

RF Test Report

Report No.: AGC00552180402EE10

PRODUCT DESIGNATION : Smart Phone
BRAND NAME : CUBOT
MODEL NAME : J3 PRO
MANUFACTURER : Shenzhen Huafurui Technology Co., Ltd.
DATE OF ISSUE : May 14, 2018
STANDARD(S) : EN 301 908-1 V11.1.1 (2016-07)
: EN 301 908-13 V11.1.2 (2017-07)
REPORT VERSION : V1.2

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 04, 2018	Invalid	Initial release
V1.1	1 st	May 10, 2018	Invalid	Revise Page 22
V1.2	2 nd	May 14, 2018	Valid	Revise Page 16~29

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1. TEST REPORT CERTIFICATION

Manufacturer	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen,P.R. China
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen,P.R. China
Product Designation	Smart Phone
Brand Name	CUBOT
Test Model	J3 PRO
Date of test	Apr. 19, 2018 to May 03, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-EC-LTE2/RF

We, Attestation of Global Compliance (Shenzhen) Co., Ltd., for compliance with the requirements set forth in the European Standard ETSI EN 301 908-1/-13. The results of testing in this report apply to the product system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By

Nice.xie

Nice Xie(Xie Xiaosong)

May 03, 2018

Reviewed By

Bart.xie

Bart Xie(Xie Xiaobin)

May 14, 2018

Approved By

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 Forrest Lei(Lei Yonggang)
 Authorized Officer

May 14, 2018

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2. GENERAL INFORMATION

2.1. DESCRIPTION OF EUT

2.1.1. FINAL EQUIPMENT BUILD STATUS

Details of technical specification refer to the description in follows:

Product Name	Smart Phone
Brand Name	CUBOT
Test Model	J3 PRO
Product Type	LTE
Hardware Version	FD568B
Software Version	CUBOT_J3_PRO_8051C_V01_20180403
LTE Support Band	<input checked="" type="checkbox"/> FDD Band 1 <input checked="" type="checkbox"/> FDD Band 3 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 8 <input checked="" type="checkbox"/> FDD Band 20 <input type="checkbox"/> TDD Band 33 <input type="checkbox"/> TDD Band 34 <input type="checkbox"/> TDD Band 38 <input type="checkbox"/> TDD Band 40 <input type="checkbox"/> TDD Band 42 <input type="checkbox"/> TDD Band 43 (EU Bands) <input type="checkbox"/> FDD Band 2 <input type="checkbox"/> FDD Band 4 <input type="checkbox"/> FDD Band 5 <input type="checkbox"/> FDD Band 17 <input type="checkbox"/> FDD Band 25 <input type="checkbox"/> FDD Band 26 <input type="checkbox"/> TDD Band 41 (Non-EU Bands)
TX Frequency Range	FDD Band 1: 1920 MHz – 1980 MHz FDD Band 3: 1710 MHz – 1785 MHz FDD Band 7: 2500 MHz – 2570 MHz FDD Band 8: 880 MHz – 915 MHz FDD Band 20: 832 MHz – 862 MHz
RX Frequency Range	FDD Band 1: 2110 MHz – 2170 MHz FDD Band 3: 1805 MHz – 1880 MHz FDD Band 7: 2620 MHz – 2690 MHz FDD Band 8: 925 MHz – 960 MHz FDD Band 20: 791 MHz – 821 MHz
Modulation Mode	QPSK/16QAM
Antenna Type	PIFA Antenna
LTE Antenna Gain	1.1dBi(Band 1); 0.8dBi(Band 3); 0.9dBi(Band 7);1.0dBi(Band 8); 0.7dBi(Band 20)
Diversity Antenna Gain	1.0dBi(Band 1); 0.7dBi(Band 3); 0.8dBi(Band 7);0.9dBi(Band 8); 0.6dBi(Band 20)
Power Class	FDD Band 1:3, FDD Band 3:3, FDD Band 7:3, FDD Band 8:3, FDD Band 20:3
GSM Release Version	N/A
SIM Card Description	There are dual-SIM cards for GSM/WCDMA/LTE.
Diversity Antenna Description	Diversity antenna is only used to receive. Its purpose is to increase sensitivity of LTE. The receiver items test results in the report already contain the diversity antenna test.

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2.1.2. PHOTOGRAPHS OF THE EUT

Please see APPENX 1 for photographs of the EUT.

2.1.3. IDENTIFICATION OF SAMPLES EUT

The EUT Identity consists of numerical and letter characters (see the table below), the first five numerical characters indicates the Type of the EUT defined by AGC, the next letter character indicates the test sample, and the following two numerical characters indicates the software version of the test sample.

SAMPLE A01

Sample Reference Number	A01
Factory Name	Shenzhen Huafului Technology Co., Ltd.
Test Model	J3 PRO
Product Type	FDD Band 1, FDD Band 3, FDD Band 7, FDD Band 8, FDD Band 20
Frequency Bands	QPSK/16QAM;

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2.2. TYPE OF PICS/PIXIT INFORMATION

Item	Operating bands RF Baseline Implementation capabilities	Support	Allowed Value	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	YES	Yes/No	Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	NO	Yes/No	Band 2
3	UE Power Class 3 (+23 dBm)	YES	Yes/No	--
4	Frequency band: 1710-1785, 1805-1880 MHz	YES	Yes/No	Band 3
5	Frequency band: 1710-1755, 2110-2155 MHz	NO	Yes/No	Band 4
6	Frequency band: 824-849, 869-894 MHz	NO	Yes/No	Band 5
7	Frequency band: 830-840, 875-885 MHz	NO	Yes/No	Band 6
8	Frequency band: 2500-2570, 2620-2690 MHz	YES	Yes/No	Band 7
9	Frequency band: 880-915, 925-960 MHz	YES	Yes/No	Band 8
10	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	NO	Yes/No	Band 9
11	Frequency band: 1710-1770, 2110-2170 MHz	NO	Yes/No	Band 10
12	Frequency band: 1427.9-1452.9, 1475.9-1500.9 MHz	NO	Yes/No	Band 11
13	Frequency band: 699-716, 729-746 MHz	NO	Yes/No	Band 12
14	Frequency band: 777-787, 746-756 MHz	NO	Yes/No	Band 13
15	Frequency band: 788-798, 758-768 MHz	NO	Yes/No	Band 14
16	Reserved	NO	Yes/No	Band 15
17	Reserved	NO	Yes/No	Band 16
18	Frequency band: 704 – 716 , 734 – 746 MHz	NO	Yes/No	Band 17
19	Frequency band: 815-830, 860-875 MHz	NO	Yes/No	Band 18
20	Frequency band: 830-845, 875-890 MHz	NO	Yes/No	Band 19
21	Frequency band: 832-862, 791-821 MHz	YES	Yes/No	Band 20
22	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	NO	Yes/No	Band 21
23	Frequency band: 3410-3490, 3510-3590 MHz	NO	Yes/No	Band 22
24	Frequency band: 2000-2020, 2180-2200 MHz	NO	Yes/No	Band 23

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25	Frequency band: 1626.5-1660.5,1525-1559 MHz	NO	Yes/No	Band 24
26	Frequency band: 1850-1915,1930-1995 MHz	NO	Yes/No	Band 25
27	Frequency band: 814-849,859-894 MHz	NO	Yes/No	Band 26
28	Frequency band: 807-824,852-869 MHz	NO	Yes/No	Band 27
29	Frequency band: 703-748,758-803 MHz	NO	Yes/No	Band 28
30	Frequency band: N/A,DL: 717-728 MHz	NO	Yes/No	Band 29
31	Frequency band:2305-2315, 2350- 2360 MHz	NO	Yes/No	Band 30
32	Frequency band:452.5-457.5, 462.5 - 467.5MHz	NO	Yes/No	Band 31
33				...
34	Frequency band:1900-1920, 1900-1920 MHz	NO	Yes/No	Band 33
35	Frequency band:2010-2025, 2010-2025 MHz	NO	Yes/No	Band 34
36	Frequency band:18501910, 1850-1910 MHz	NO	Yes/No	Band 35
37	Frequency band:1930-1990, 1930-1990 MHz	NO	Yes/No	Band 36
38	Frequency band:19101930, 1910-1930 MHz	NO	Yes/No	Band 37
39	Frequency band:2570-2620, 2570-2620 MHz	NO	Yes/No	Band 38
40	Frequency band:1880-1920, 1880-1920 MHz	NO	Yes/No	Band 39
41	Frequency band:2300-2400, 2300-2400 MHz	NO	Yes/No	Band 40
42	Frequency band:2496-2690, 2496- 2690 MHz	NO	Yes/No	Band 41
43	Frequency band:3400-3600, 3400-3600 MHz	NO	Yes/No	Band 42
44	Frequency band:3600-3800, 3600-3800 MHz	NO	Yes/No	Band 43
45	Frequency band:703-803, 703-803 MHz	NO	Yes/No	Band 44

Note 1: Band 6 is not applicable.

Note 2: Restricted to E-UTRA operation when carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

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3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location-1	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Location-2	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China
Note: Section 5.3.1 items were tested in the Laboratory of Location 2. Others were tested in the Laboratory of Location 1.	

LIST OF EQUIPMENTS USED OF AGC&NETC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Mar. 01, 2018	Feb. 28, 2019
2	Wireless communication test CMW500	R&S	120909	July 13, 2017	July 12, 2018
3	Wireless communication test set 8960	Agilent	GB46200384	July 16, 2017	July 15, 2018
4	Power Splitter 7100LC	KALMUS	04-02/17-06-001	June 29, 2017	June 28, 2018
5	Attenuator	JFW	50FHC-006-50	June 20, 2017	June 19, 2018
6	Vector Signal Generator SMU200A	R&S	104332	Sep. 21, 2017	Sep. 20, 2018
7	Wireless Communications Test Set 8960	AGILENT	GB42361316	Mar. 01, 2018	Feb. 28, 2019
8	EXA Signal Analyzer N9010A	Agilent	MY53470504	Dec. 17, 2016	Dec. 16, 2017
8	EXA Signal Analyzer N9010A	Agilent	MY53470504	Dec. 08, 2017	Dec. 07, 2018
9	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep. 21, 2017	Sep. 20, 2018
10	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep. 21, 2017	Sep. 20, 2018
11	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Mar. 01, 2018	Feb. 28, 2019
12	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
13	RF SHIELD BOX	R&S	1204.7008K02-1 02590-EE	Mar. 01, 2018	Feb. 28, 2019
14	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Aug. 23, 2017	Aug. 22, 2018
15	Vibration Source SCU-200	SUSHI	3000-40-07	Mar. 01, 2018	Feb. 28, 2019

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No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
16	Attenuator	JFW	50FHC-006-50	June 20, 2017	June 19, 2018
17	EMI Test Receiver	ESCI	100694	June 29, 2017	June 28, 2018
18	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	Mar. 01, 2018	Feb. 28, 2020
19	Broadband Antenna VULB9168	SCHWARZBECK	D69250	Mar. 01, 2018	Feb. 28, 2020
20	Triple Loop Antenna RF300	LAPLACE	N/A	Mar. 01, 2018	Feb. 28, 2020
21	Artificial Mains Network ENV4200	R&S	101116	July.16, 2017	July.15, 2018
22	Artificial Mains Network ENV216	R&S	101242	July.16, 2017	July.15, 2018
23	Filter Bank Notch 1(880-915MHz)	MICRO-TRONIC S	010	Mar. 01, 2018	Feb. 28, 2019
24	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONIC S	009	Mar. 01, 2018	Feb. 28, 2019
25	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONIC S	008	Mar. 01, 2018	Feb. 28, 2019

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4. MEASUREMENT UNCERTAINTY

Parameter	Conditions	Test System Uncertainty
Transmitter Maximum Output power	--	±0,7 dB
Transmitter spectrum emissions mask	--	±1,5 dB
Transmitter spurious emissions	9 kHz < f ≤ 4 GHz: ±2,0 dB 4 GHz < f ≤ 12,75 GHz: ±4,0 dB	±2,0 dB ±4,0 dB
Transmitter Minimum output power	--	±1,0 dB
Receiver Adjacent Channel Selectivity(ACS)	--	±1,1 dB
Receiver Blocking characteristics	1 MHz < finterferer ≤ 3 GHz 3 GHz < finterferer ≤ 12,75 GHz	±1,3 dB ±3,2 dB
Receiver spurious response	1 MHz < finterferer ≤ 3 GHz 3 GHz < finterferer ≤ 12,75 GHz	±1,3 dB ±3,2 dB
Receiver intermodulation characteristics	--	±1,4 dB
Receiver spurious emissions	30 MHz ≤ f ≤ 4,0 GHz: ±2,0 dB 4 GHz < f ≤ 12,75 GHz: ±4,0 dB	±2,0 dB ±4,0 dB
Transmitter adjacent channel leakage power ratio	--	±0,8 dB

NOTE 1: For RF tests it should be noted that the uncertainties in table 5.2-1 apply to the test system operating into a nominal 50 Ω load and do not include system effects due to mismatch between the EUT and the test system.

NOTE 2: If the test system for a test is known to have a measurement uncertainty greater than that specified in table 5.2-1, this equipment can still be used provided that an adjustment is made follows: any additional uncertainty in the test system over and above that specified in table 5.2-1 should be used to tighten the test requirements - making the test harder to pass (for some tests, e.g. receiver tests, this may require modification of stimulus signals). This procedure will ensure that a test system not compliant with table 5.2-1 does not increase the probability of passing an EUT that would otherwise have failed a test if a test system compliant with table 5.2-1 had been used.

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5. TEST RESULT

5.1. APPLIED REFERENCE DOCUMENTS

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements
2	ETSI EN 301 908-13	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)

Specific reference documents for testing:

No.	Identity	Document Title
3	ETSI TS 136 521-1	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing

5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	15 ... 35 °C
Relative Humidity	20 ... 75 %
Air Pressure	980 ... 1020 hPa
Adapter Test Model Name	J3 PRO
Details of Power Supply(Rated Input)	AC100-240V, 50/60Hz, 0.15A
Details of Power Supply(Rated Output)	DC5.0V,1000mA
Extreme Temperature	Low Temperature (TL) = -20°C Normal Temperature(TN) = 25 °C High Temperature (TH) = +55°C
Extreme Voltage of the EUT	Normal Voltage= DC 3.80V Limit Voltage = DC 4.35V
Note: The Limit Voltage 4.35V was declared by manufacturer, The EUT couldn't be operate normally with higher voltage.	

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5.3. ITEMS USED IN THE TEST RESULTS LIST

Terms in the column “Verdict” for the test results list of the section:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
INC.	EUT did not pass and did not fail this test case, therefore the verdict is inconclusive
FOUR-FAITH	Test case not applicable for the EUT, see the column “Note” for detailed

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5.4. TEST RESULTS LIST

Table A.1: The EN Requirements Table (EN-RT) for SIM Card 1
ETSI EN 301 908-1

Test case	Description	Condition	FDD Band 1		FDD Band 3		FDD Band 7	
			Sample	Result	Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS	A01	PASS

Test case	Description	Condition	FDD Band 8		FDD Band20	
			Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS

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ETSI EN 301 908-13

Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 3	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 20MHz	NTC	A01	PASS

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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 20MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 20MHz	NTC	A01	PASS
Channel Bandwidths to be tested: lowest, 5 MHz, 10 MHz and highest channel bandwidth Band 3: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz					

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Teat case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 8	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 10MHz	NTC	A01	PASS

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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 10MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 10MHz	NTC	A01	PASS

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel bandwidth
 Band 8: 1.4MHz/3MHz/5MHz/10MHz

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Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 1		FDD Band 7		FDD Band 20		Remark
				Sample	Result	Sample	Result	Sample	Result	
4.2.2	Transmitter Maximum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.5	Transmitter Minimum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.3	Transmitter Spectrum Emission Mask	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.4	Transmitter Spurious Emissions	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

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4.2.6	Receiver Adjacent Channel	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.7	Receiver Blocking Characteristics	5MHz 20MHz	In band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Out Band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Narrow Band	A01	PASS	A01	PASS	A01	PASS	--
4.2.8	Receiver Spurious Response	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.9	Receiver Intermodulation Characteristics	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.10	Receiver Spurious Emissions	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.12	Receiver Reference Sensitivity Level	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel 20MHz bandwidth.

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Table A.2: The EN Requirements Table (EN-RT) for SIM Card 2
ETSI EN 301 908-1

Test case	Description	Condition	FDD Band 1		FDD Band 3		FDD Band 7	
			Sample	Result	Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS	A01	PASS

Test case	Description	Condition	FDD Band 8		FDD Band20	
			Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS

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ETSI EN 301 908-13

Teat case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 3	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 20MHz	NTC	A01	PASS

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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 20MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 20MHz	NTC	A01	PASS
Channel Bandwidths to be tested: lowest, 5 MHz, 10 MHz and highest channel bandwidth Band 3: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz					

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Teat case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 8	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 10MHz	NTC	A01	PASS

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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 10MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 10MHz	NTC	A01	PASS

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel bandwidth
 Band 8: 1.4MHz/3MHz/5MHz/10MHz

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Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 1		FDD Band 7		FDD Band 20		Remark
				Sample	Result	Sample	Result	Sample	Result	
4.2.2	Transmitter Maximum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.5	Transmitter Minimum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.3	Transmitter Spectrum Emission Mask	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.4	Transmitter Spurious Emissions	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

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4.2.6	Receiver Adjacent Channel	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.7	Receiver Blocking Characteristics	5MHz 20MHz	In band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Out Band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Narrow Band	A01	PASS	A01	PASS	A01	PASS	--
4.2.8	Receiver Spurious Response	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.9	Receiver Intermodulation Characteristics	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.10	Receiver Spurious Emissions	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.12	Receiver Reference Sensitivity Level	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel 20MHz bandwidth.

Note: 1. Test reports have put the diversity antenna coupled together by the power divider test.
 2. The worst test result is SIM Card 1 and recorded in the test report.

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Appendix A for Band 1

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTLV	QPSK	5 MHz	Low range	1	0	21.82	Pass
					max	21.80	Pass
				Partial	0	22.02	Pass
					max	22.05	Pass
			Mid range	1	0	22.03	Pass
					max	22.05	Pass
				Partial	0	22.15	Pass
					max	22.17	Pass
			High range	1	0	22.04	Pass
					max	22.04	Pass
				Partial	0	22.22	Pass
					max	22.21	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTLV	QPSK	20 MHz	Low range	1	0	21.94	Pass
					max	21.88	Pass
				Partial	0	21.96	Pass
					max	21.92	Pass
			Mid range	1	0	21.94	Pass
					max	21.84	Pass
				Partial	0	21.88	Pass
					max	21.77	Pass
			High range	1	0	21.86	Pass
					max	21.91	Pass
				Partial	0	21.86	Pass
					max	21.84	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	5 MHz	Low range	Full	0	-50.11	Pass
			Mid range	Full	0	-50.40	Pass
			High range	Full	0	-51.06	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	20MHz	Low range	Full	0	-50.36	Pass
			Mid range	Full	0	-47.98	Pass
			High range	Full	0	-49.01	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass

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			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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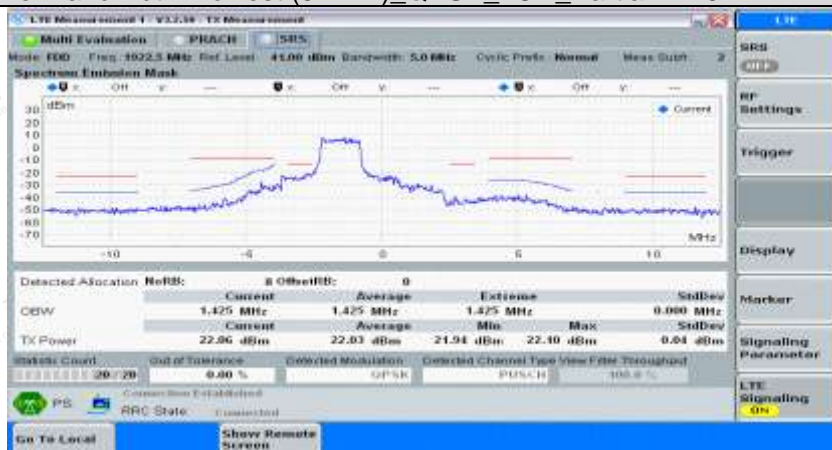
Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0

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QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max

QPSK



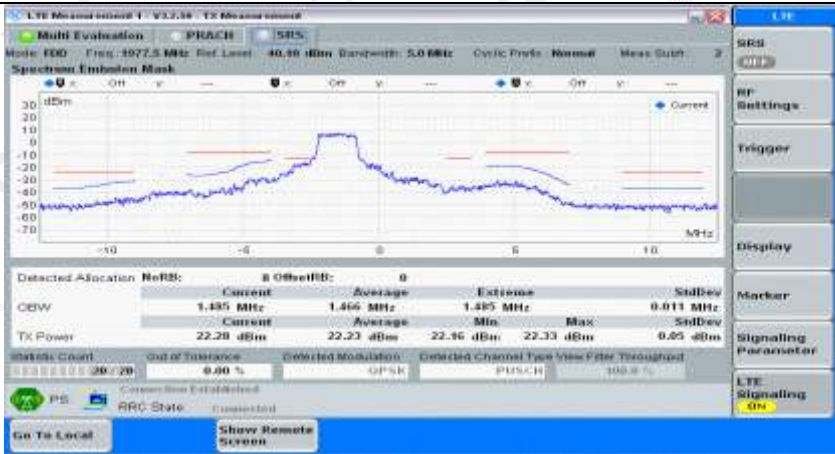
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0

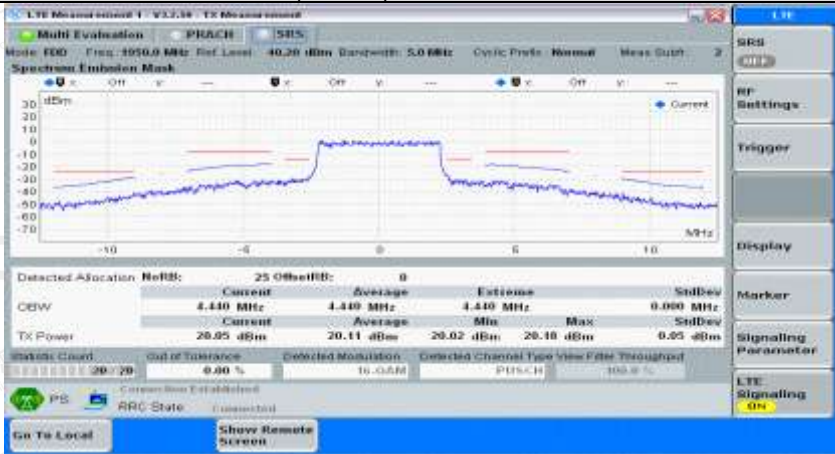
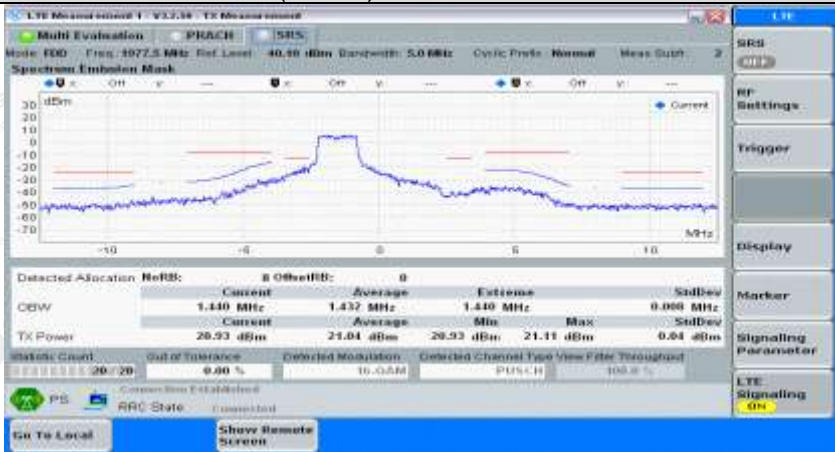
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	

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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	

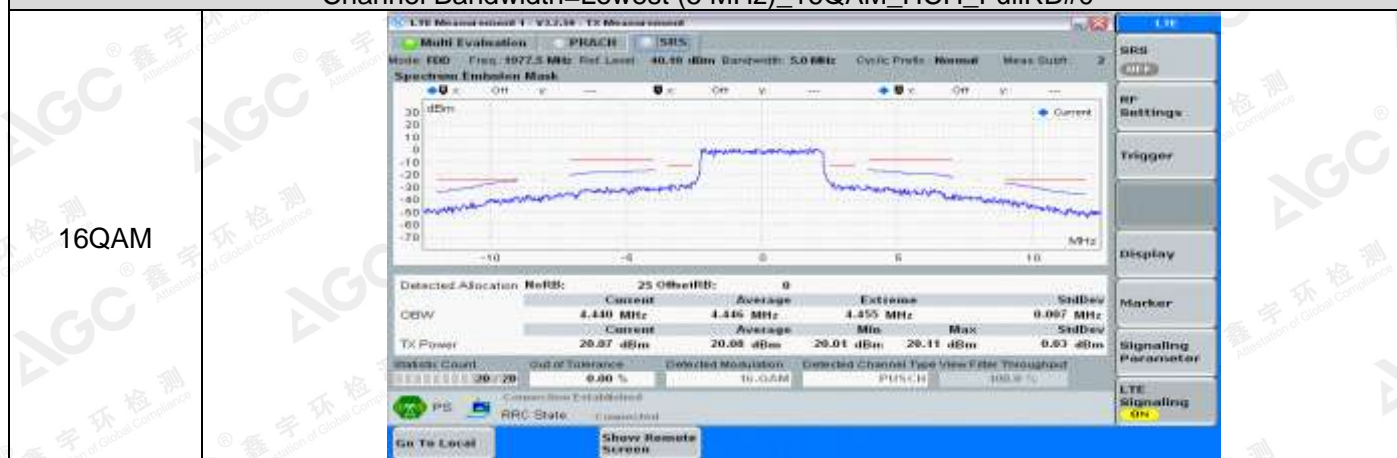
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	

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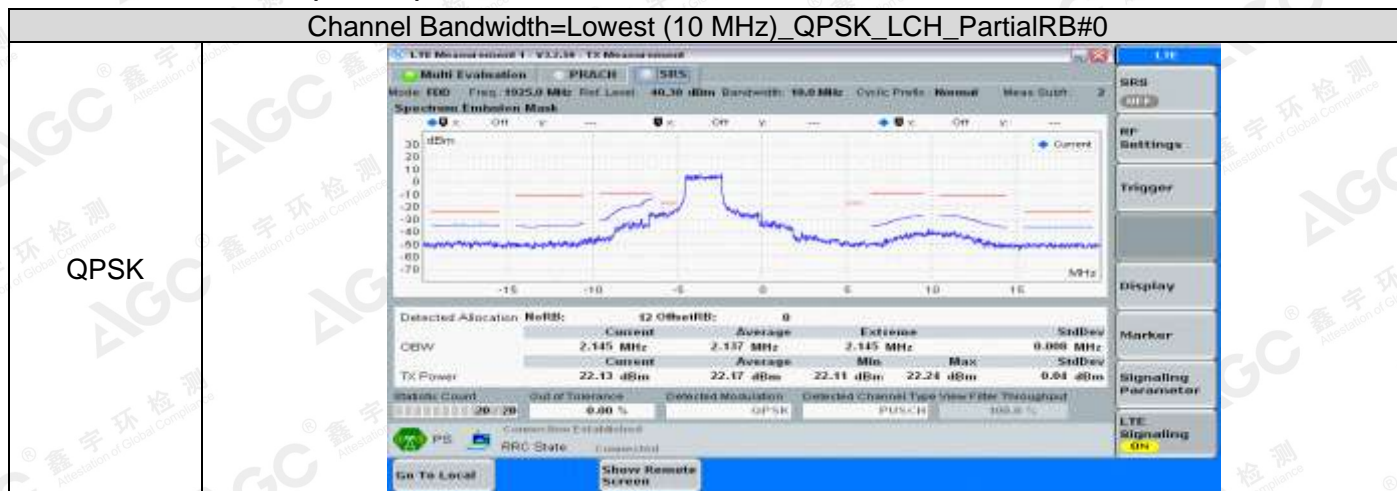


Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0




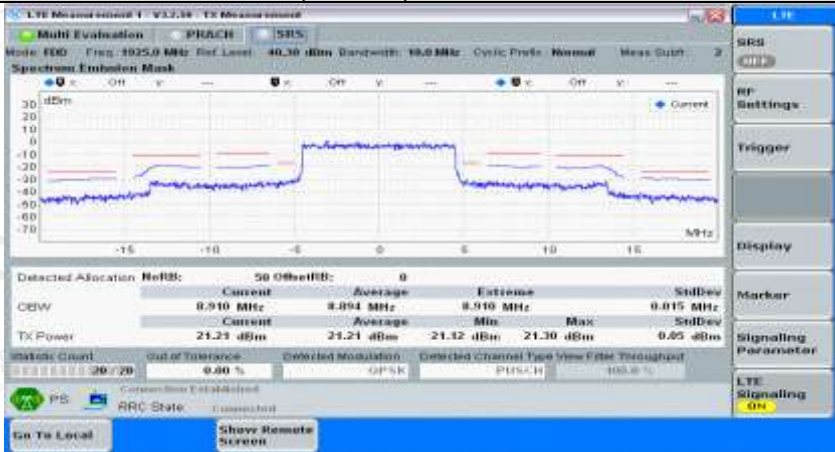

Channel Bandwidth=(10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	

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QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0

QPSK




Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0

QPSK

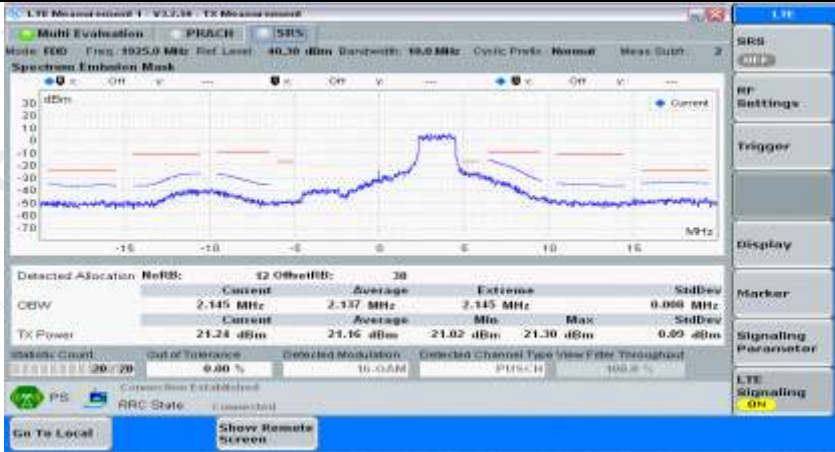
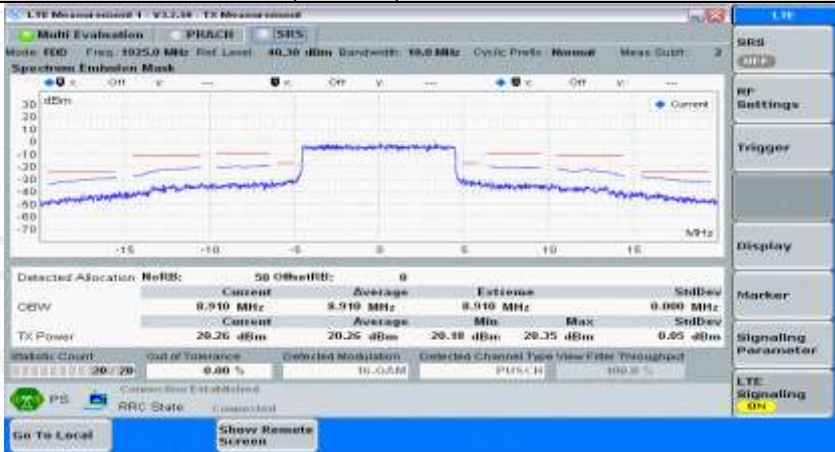
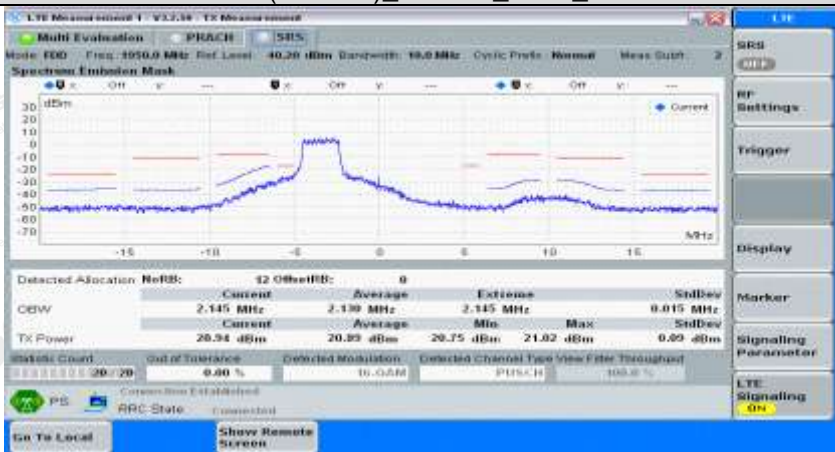


Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max

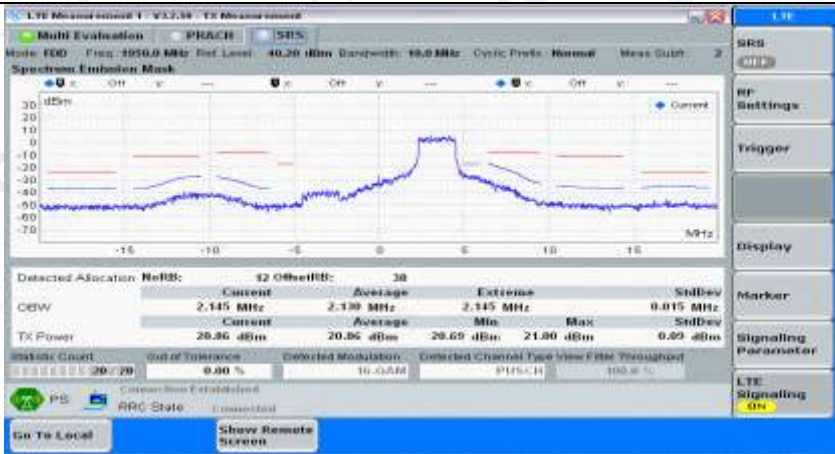
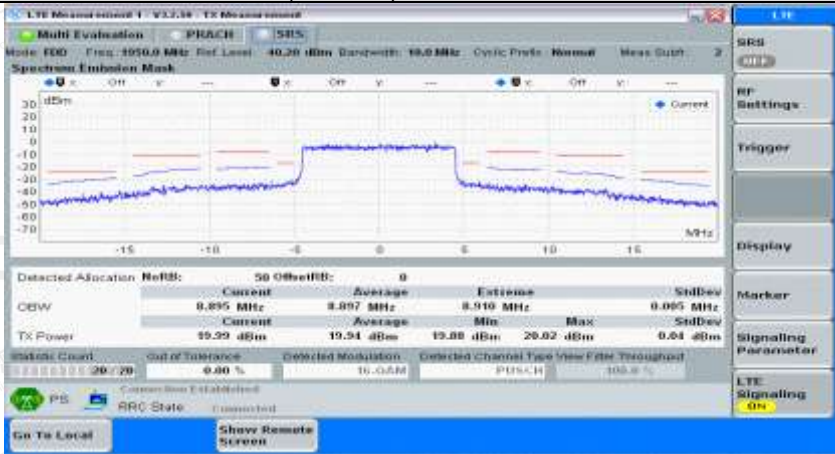
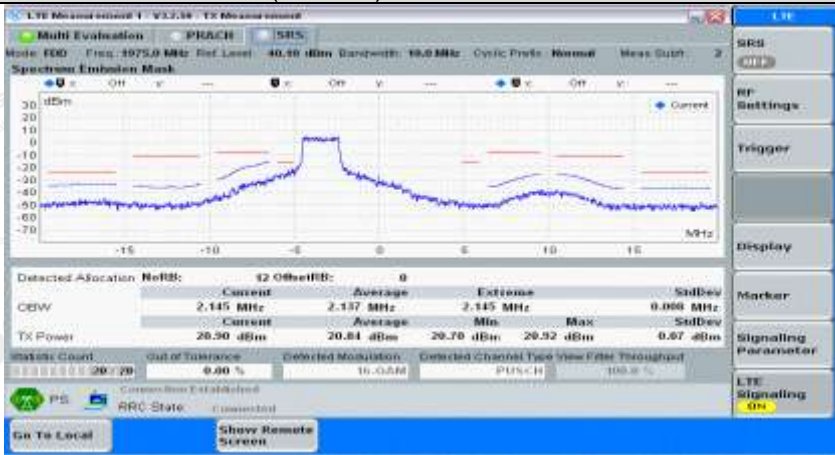
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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialIRB#max</p>

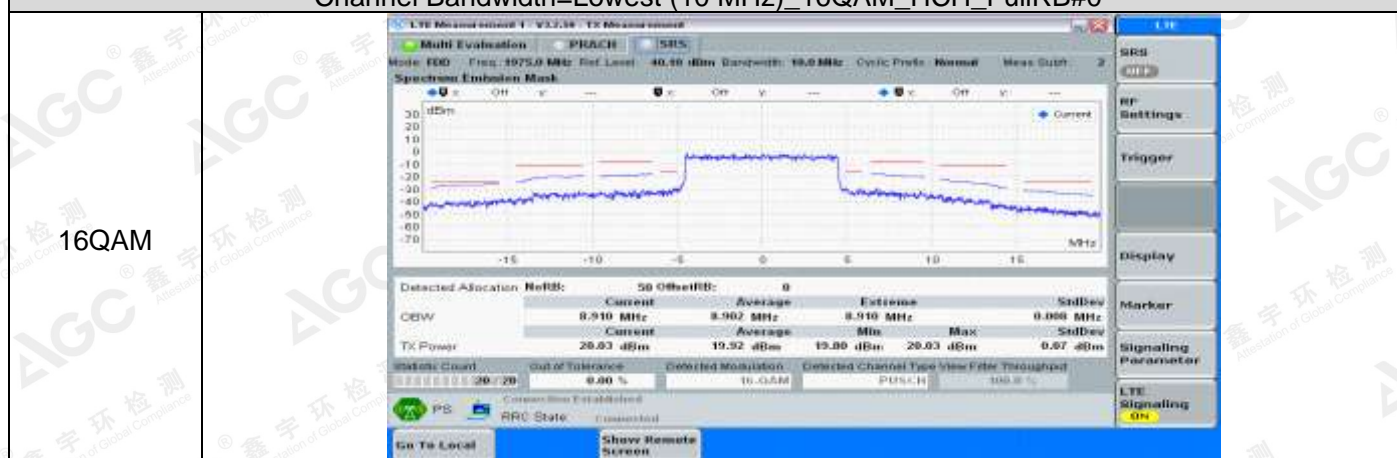
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	

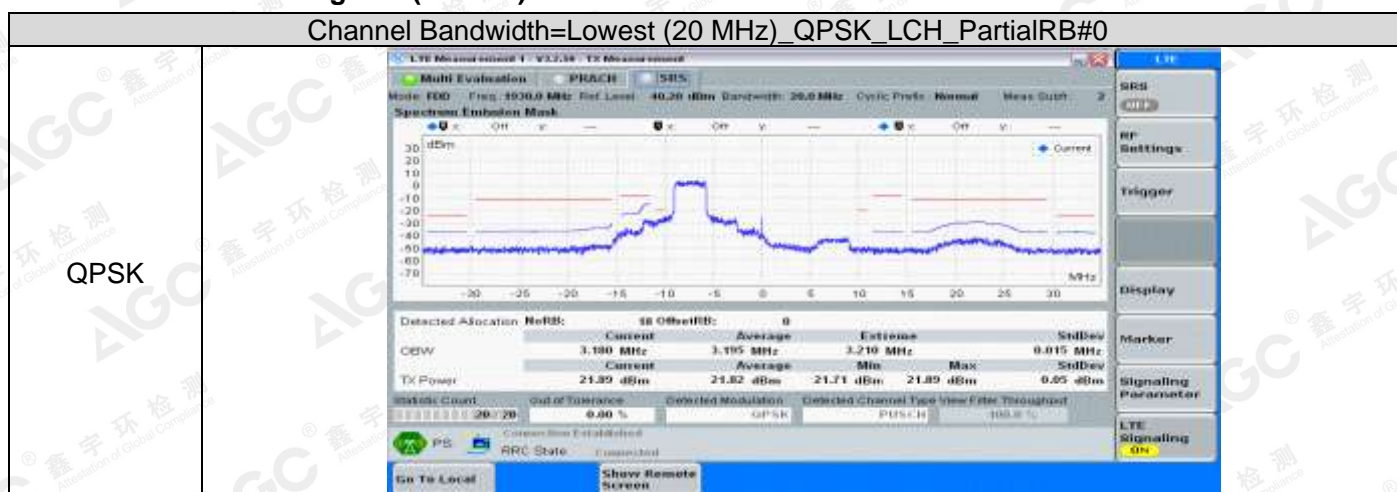
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Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0

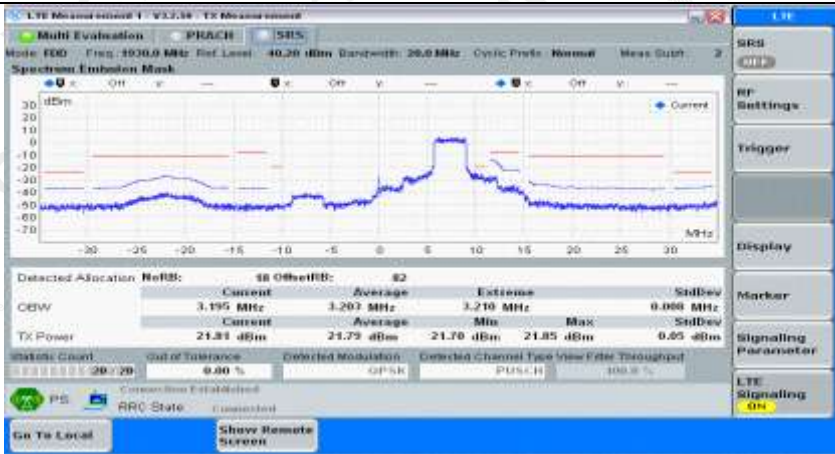
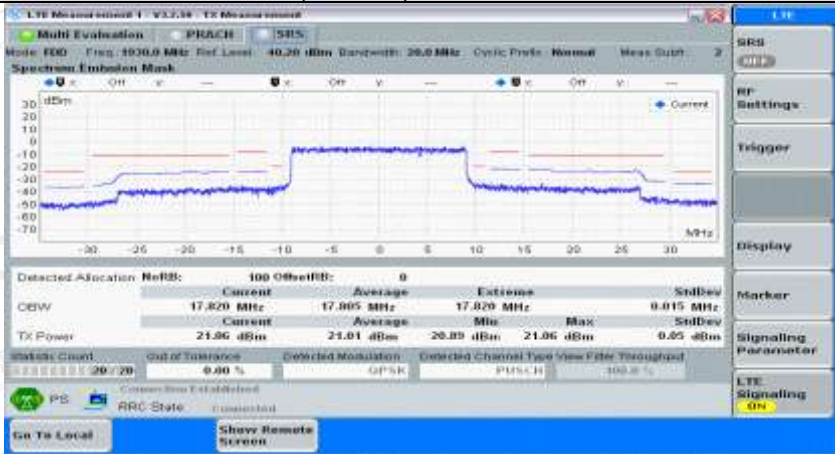



Channel Bandwidth=Highest (20 MHz)

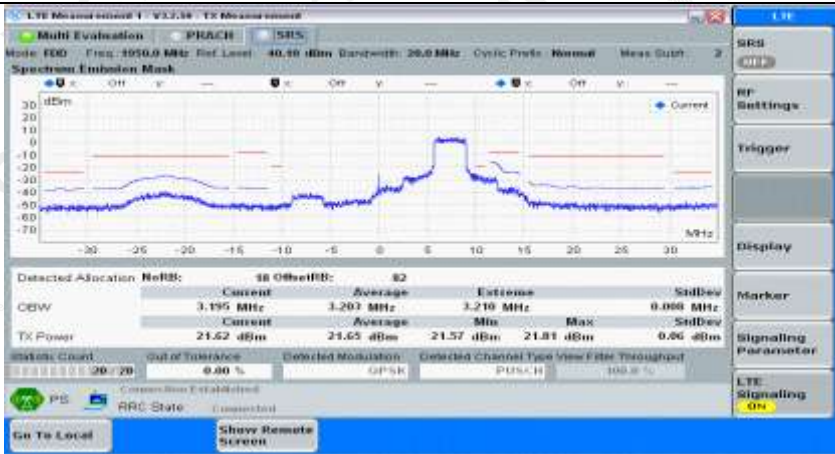
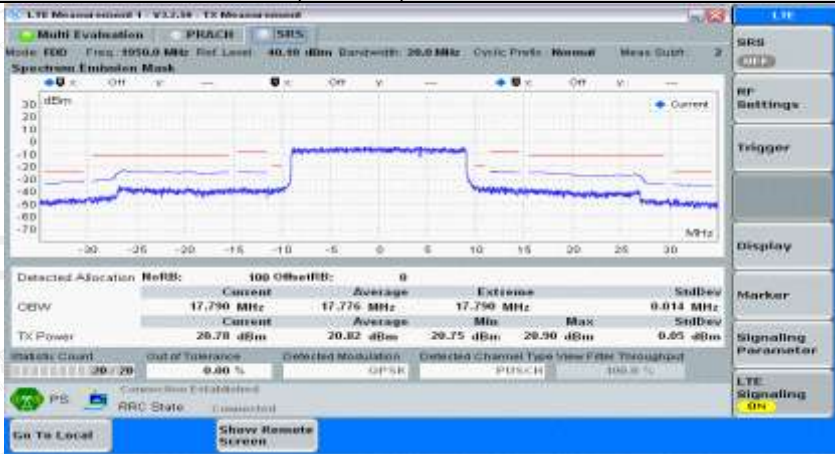



Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

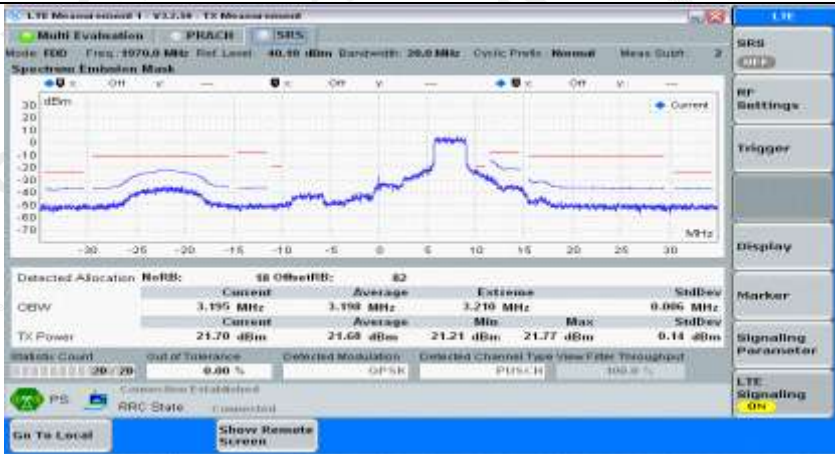
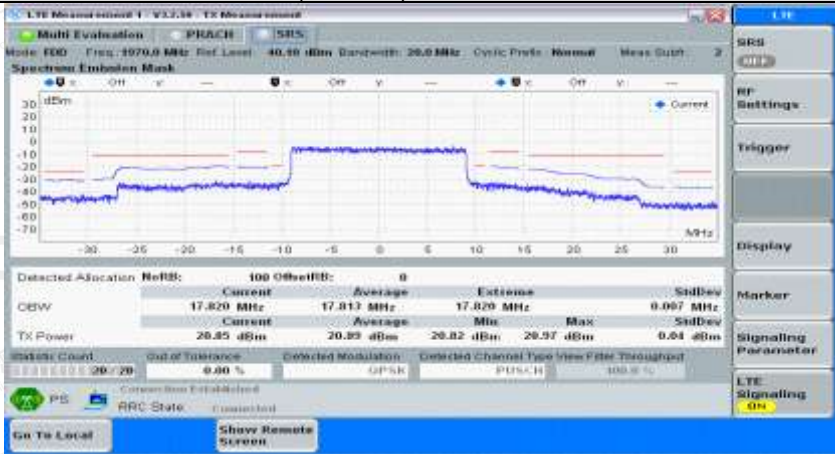
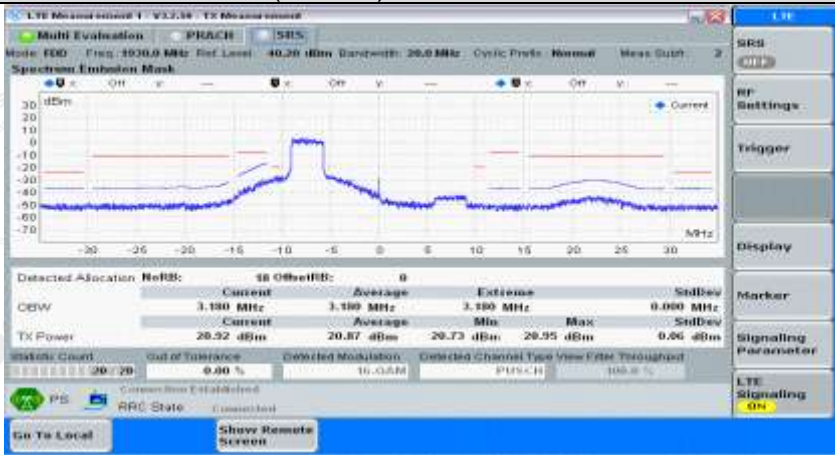
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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>

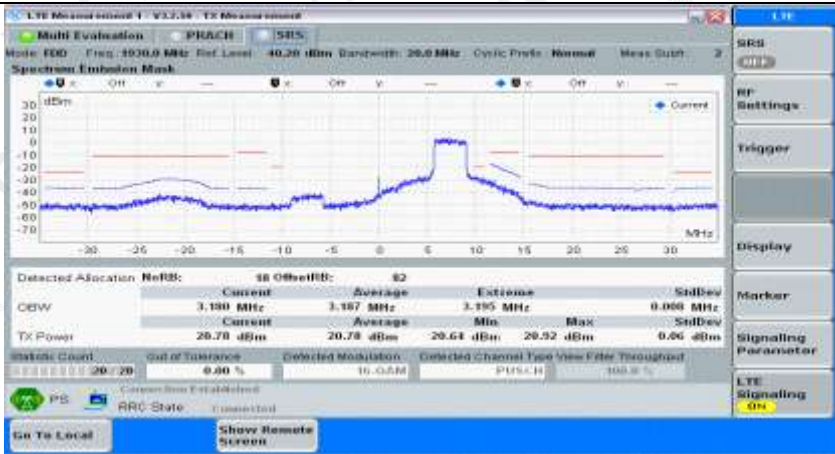
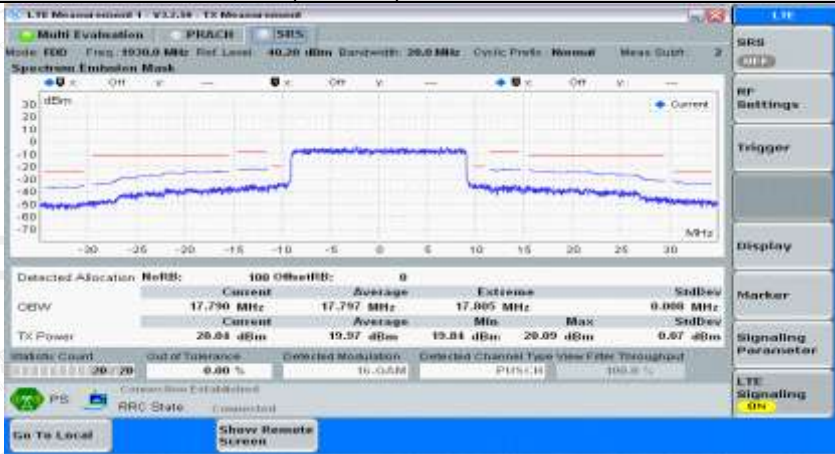
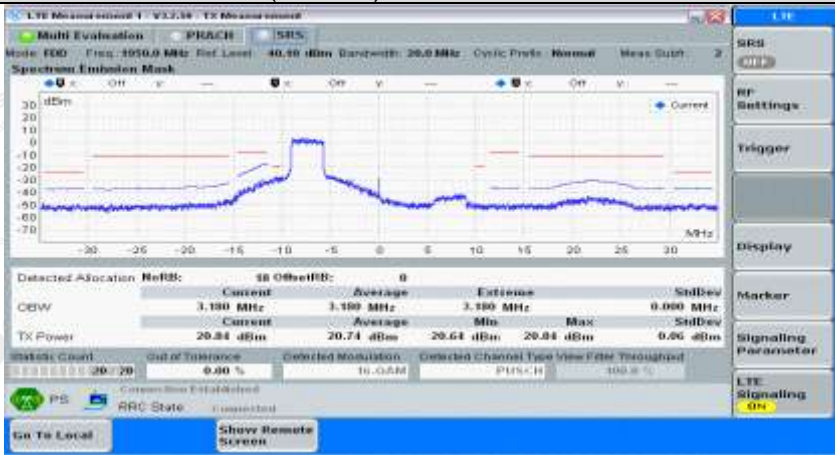
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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>

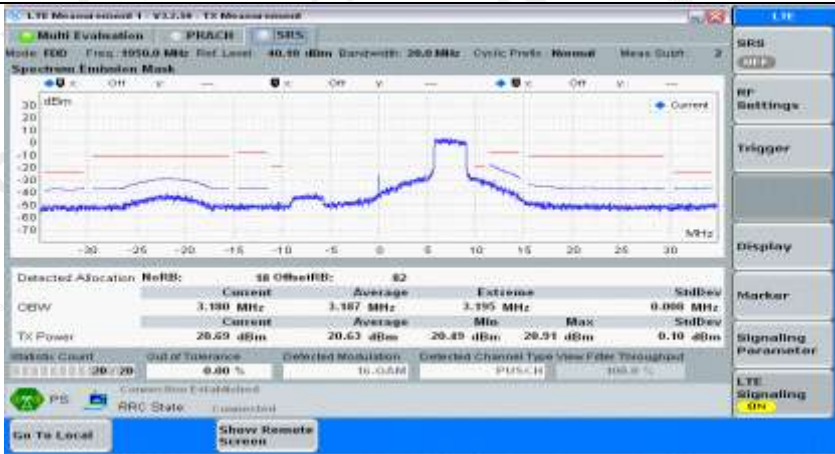
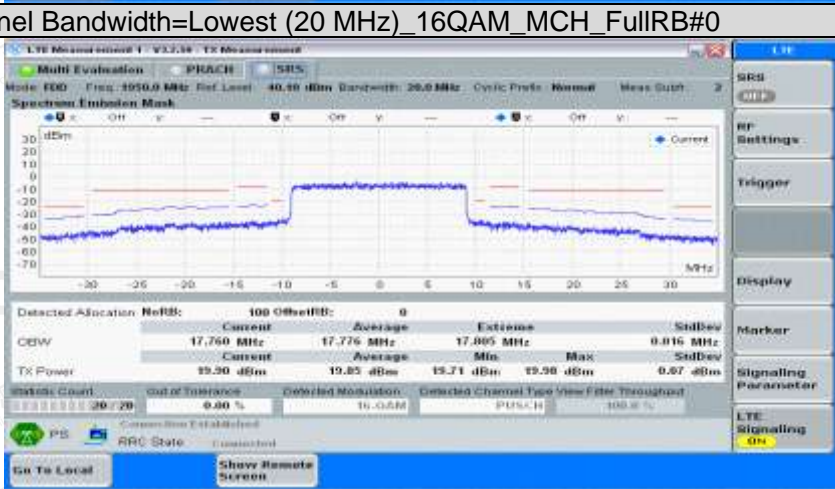
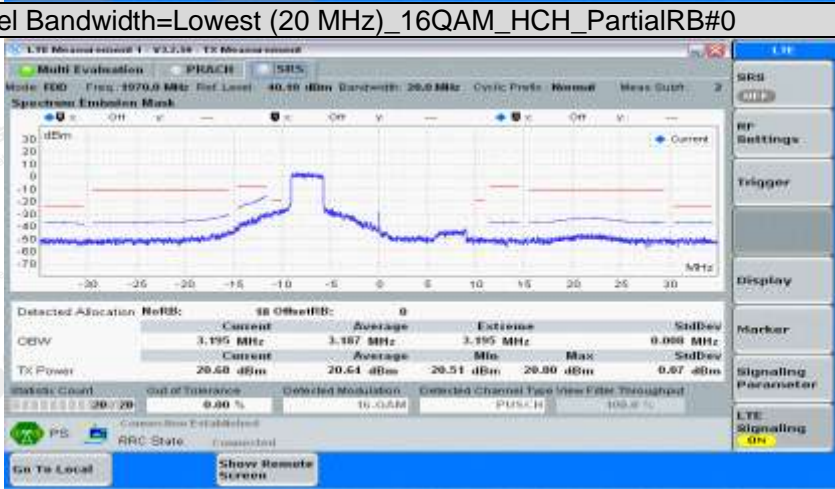
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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>

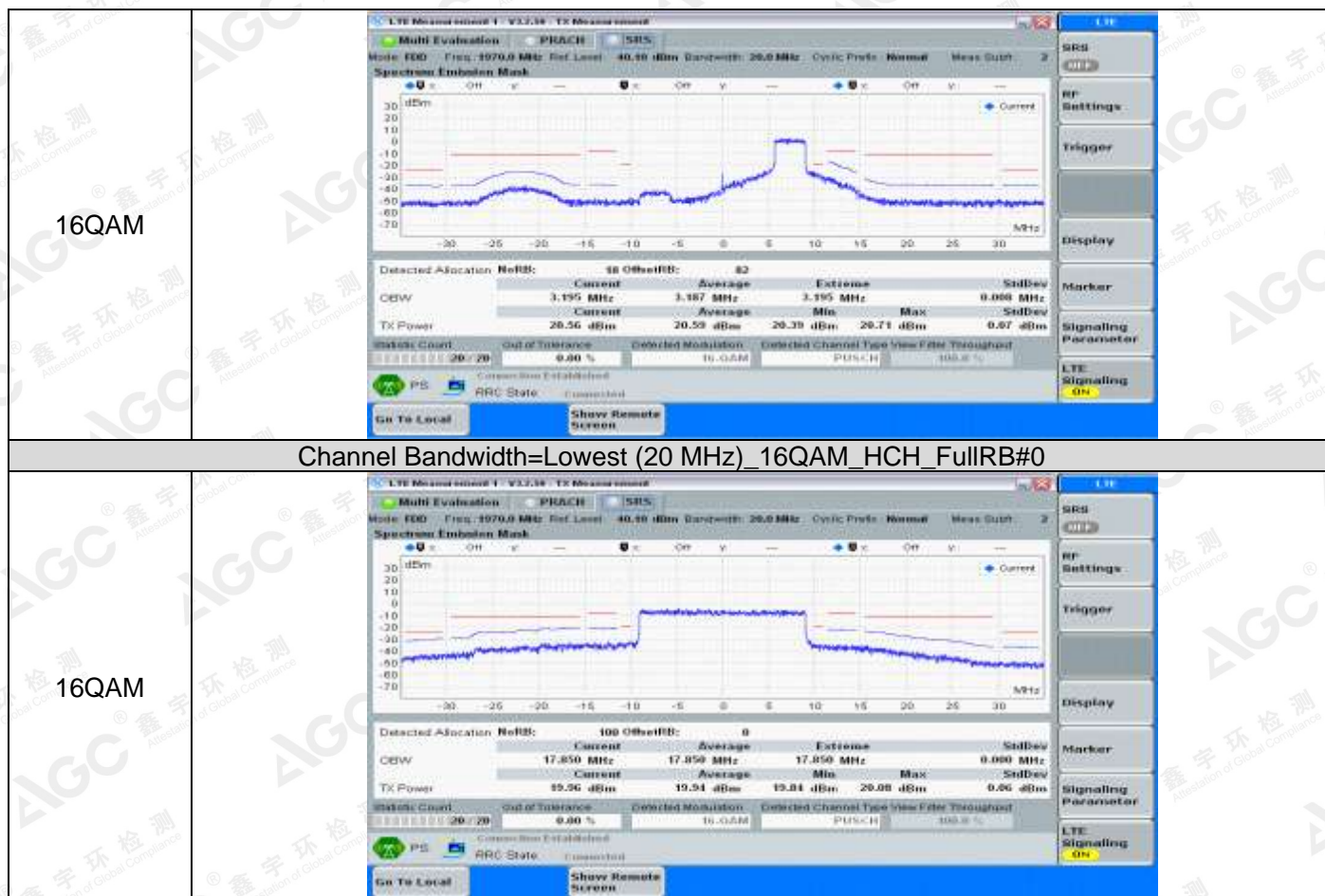
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTLV	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTLV	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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			Mid range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

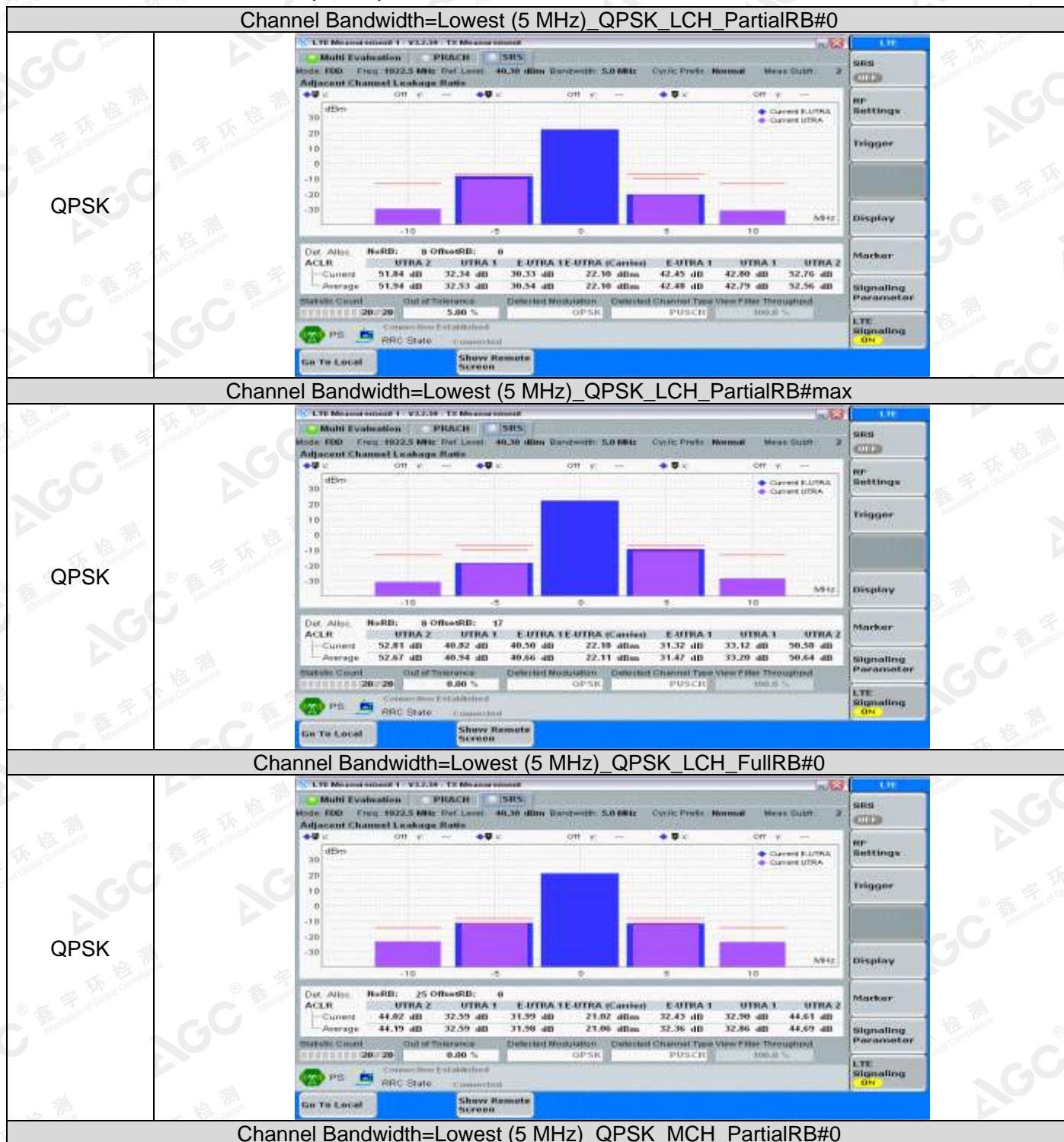
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTLV	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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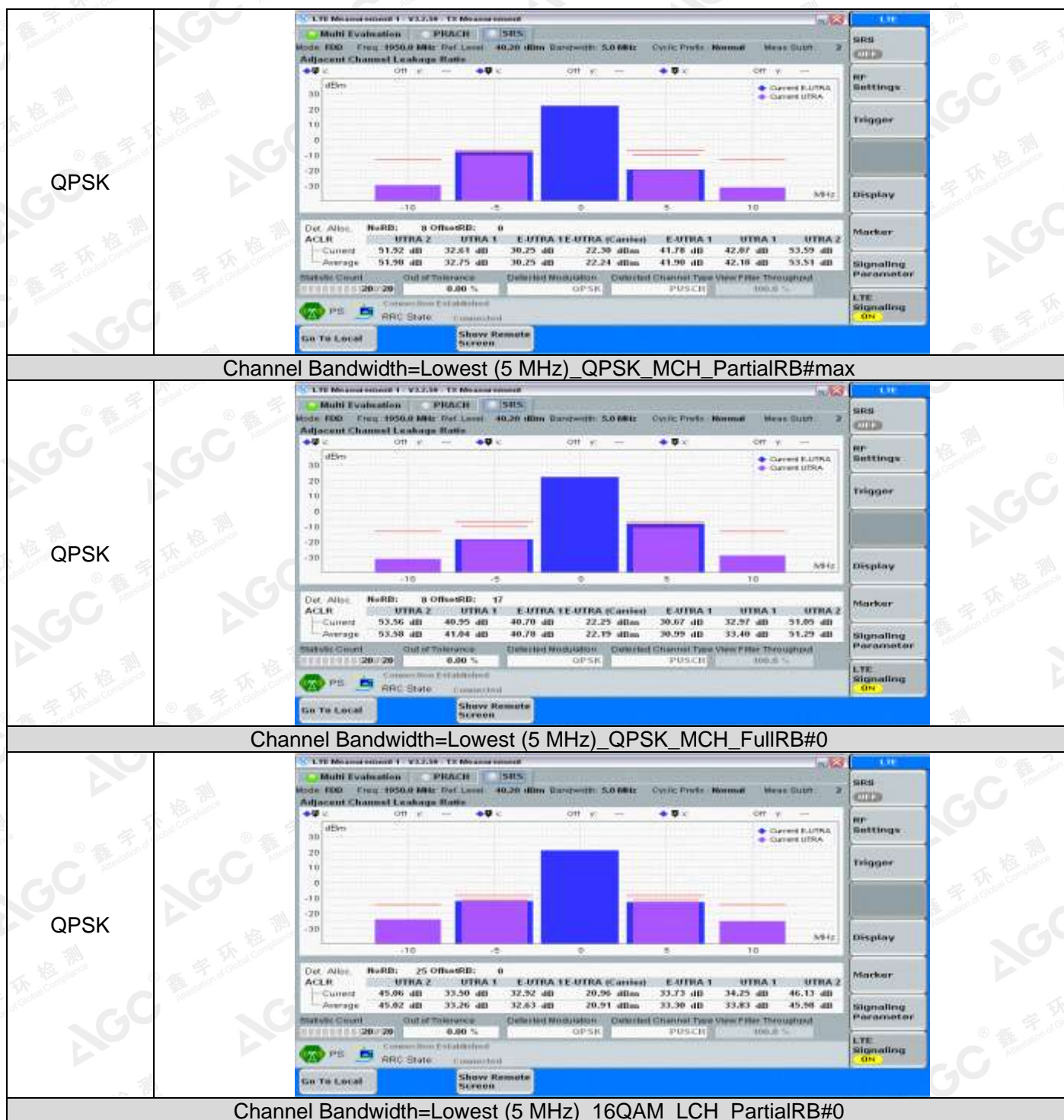
Test Graphs

LTLV


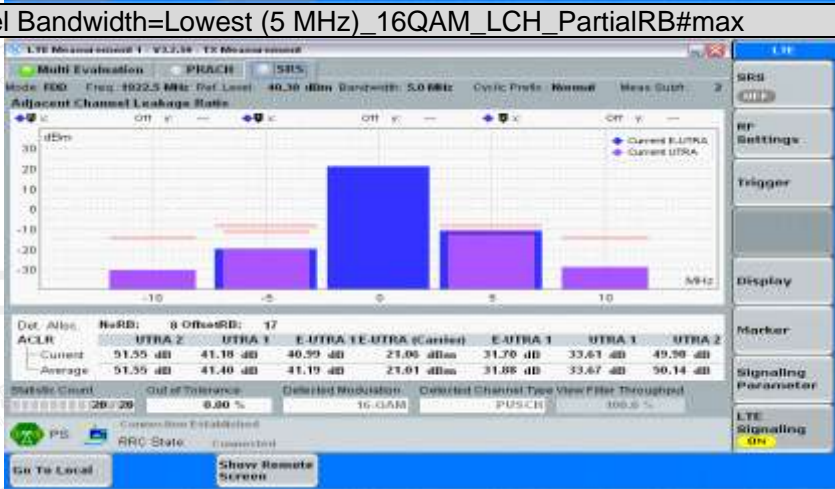
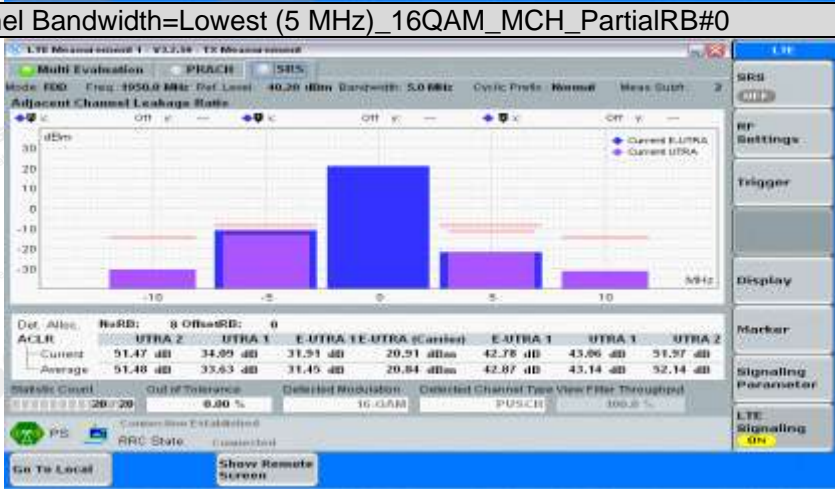
Channel Bandwidth=Lowest (5 MHz)



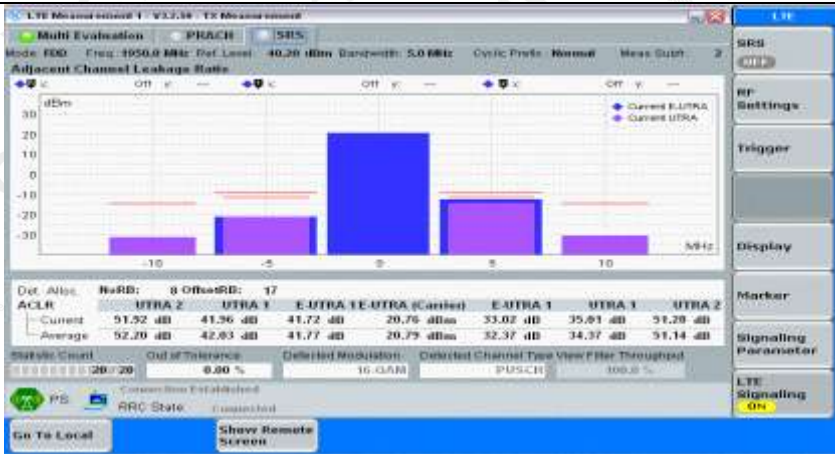

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>

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Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0






Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

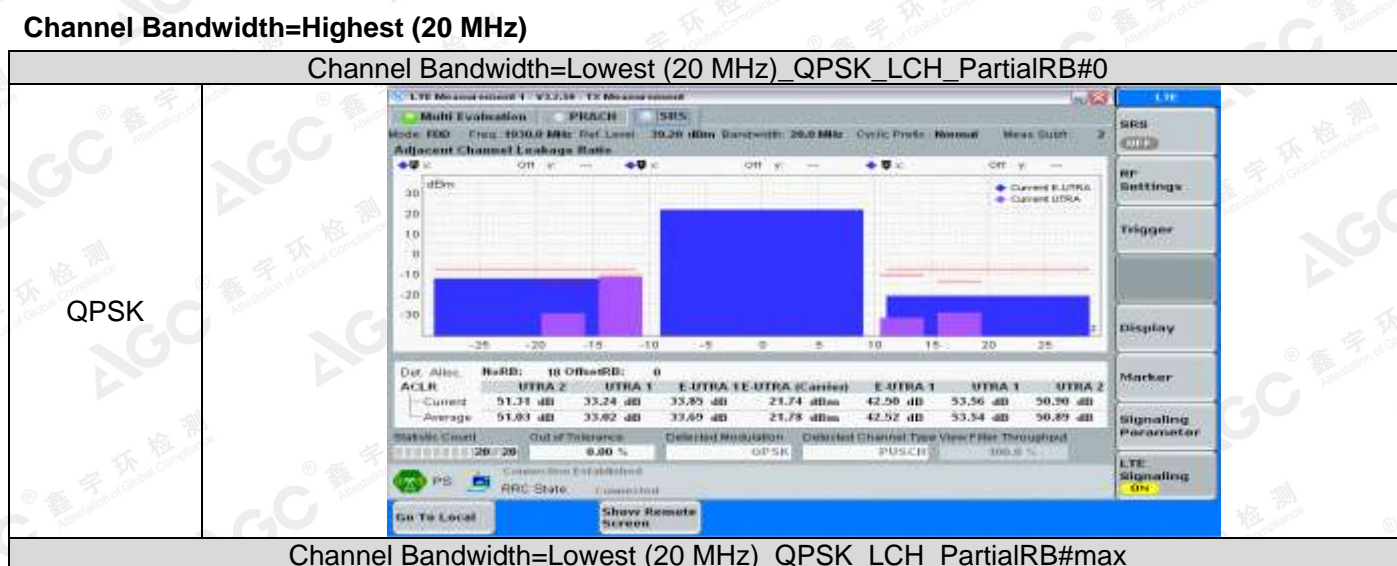
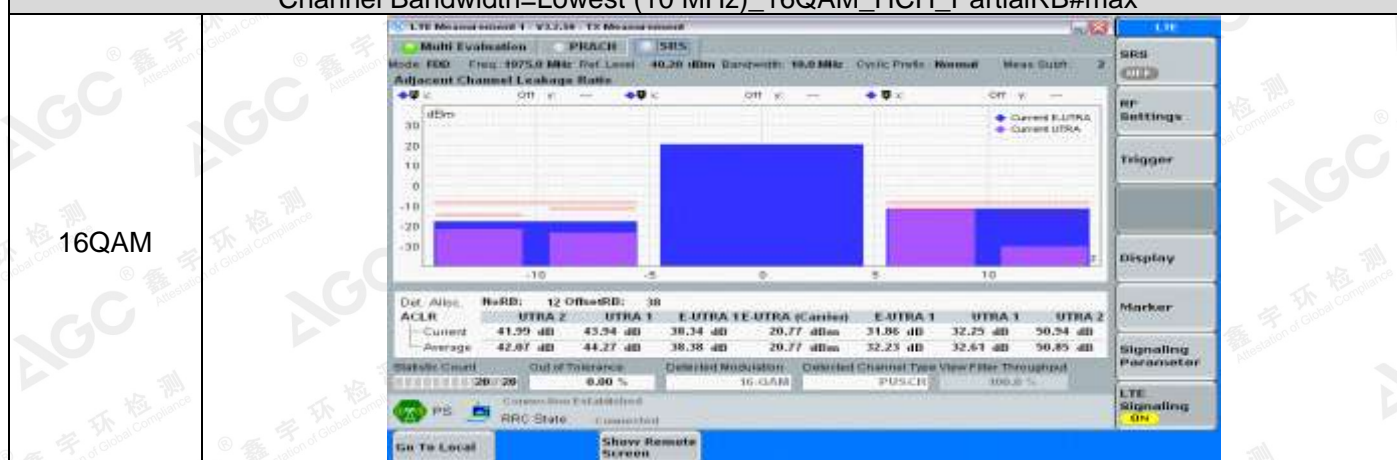
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QPSK	 <table><tr><th>Det. Alias</th><th>Hard</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th></tr><tr><th>ACLR</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>36.35 dB</td><td>35.89 dB</td><td>32.38 dB</td><td>20.85 dB</td><td>33.03 dB</td><td>35.61 dB</td><td>38.10 dB</td></tr><tr><td>Average</td><td>36.54 dB</td><td>36.93 dB</td><td>32.60 dB</td><td>20.85 dB</td><td>33.32 dB</td><td>35.95 dB</td><td>38.28 dB</td></tr></table>	Det. Alias	Hard	Off	Off	Off	Off	Off	Off	ACLR	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	36.35 dB	35.89 dB	32.38 dB	20.85 dB	33.03 dB	35.61 dB	38.10 dB	Average	36.54 dB	36.93 dB	32.60 dB	20.85 dB	33.32 dB	35.95 dB	38.28 dB
Det. Alias	Hard	Off	Off	Off	Off	Off	Off																										
ACLR	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																										
Current	36.35 dB	35.89 dB	32.38 dB	20.85 dB	33.03 dB	35.61 dB	38.10 dB																										
Average	36.54 dB	36.93 dB	32.60 dB	20.85 dB	33.32 dB	35.95 dB	38.28 dB																										
16QAM	 <table><tr><th>Det. Alias</th><th>Hard</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th></tr><tr><th>ACLR</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>51.90 dB</td><td>33.30 dB</td><td>32.80 dB</td><td>21.10 dB</td><td>42.73 dB</td><td>47.39 dB</td><td>46.89 dB</td></tr><tr><td>Average</td><td>51.71 dB</td><td>33.11 dB</td><td>32.66 dB</td><td>21.01 dB</td><td>42.86 dB</td><td>47.62 dB</td><td>46.95 dB</td></tr></table>	Det. Alias	Hard	Off	Off	Off	Off	Off	Off	ACLR	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	51.90 dB	33.30 dB	32.80 dB	21.10 dB	42.73 dB	47.39 dB	46.89 dB	Average	51.71 dB	33.11 dB	32.66 dB	21.01 dB	42.86 dB	47.62 dB	46.95 dB
Det. Alias	Hard	Off	Off	Off	Off	Off	Off																										
ACLR	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																										
Current	51.90 dB	33.30 dB	32.80 dB	21.10 dB	42.73 dB	47.39 dB	46.89 dB																										
Average	51.71 dB	33.11 dB	32.66 dB	21.01 dB	42.86 dB	47.62 dB	46.95 dB																										
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max																																	
16QAM	 <table><tr><th>Det. Alias</th><th>Hard</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th><th>Off</th></tr><tr><th>ACLR</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>45.22 dB</td><td>46.59 dB</td><td>41.48 dB</td><td>21.02 dB</td><td>32.78 dB</td><td>33.75 dB</td><td>51.55 dB</td></tr><tr><td>Average</td><td>45.70 dB</td><td>46.88 dB</td><td>41.39 dB</td><td>20.98 dB</td><td>32.92 dB</td><td>33.36 dB</td><td>51.35 dB</td></tr></table>	Det. Alias	Hard	Off	Off	Off	Off	Off	Off	ACLR	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	45.22 dB	46.59 dB	41.48 dB	21.02 dB	32.78 dB	33.75 dB	51.55 dB	Average	45.70 dB	46.88 dB	41.39 dB	20.98 dB	32.92 dB	33.36 dB	51.35 dB
Det. Alias	Hard	Off	Off	Off	Off	Off	Off																										
ACLR	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																										
Current	45.22 dB	46.59 dB	41.48 dB	21.02 dB	32.78 dB	33.75 dB	51.55 dB																										
Average	45.70 dB	46.88 dB	41.39 dB	20.98 dB	32.92 dB	33.36 dB	51.35 dB																										
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0																																	




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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	




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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	

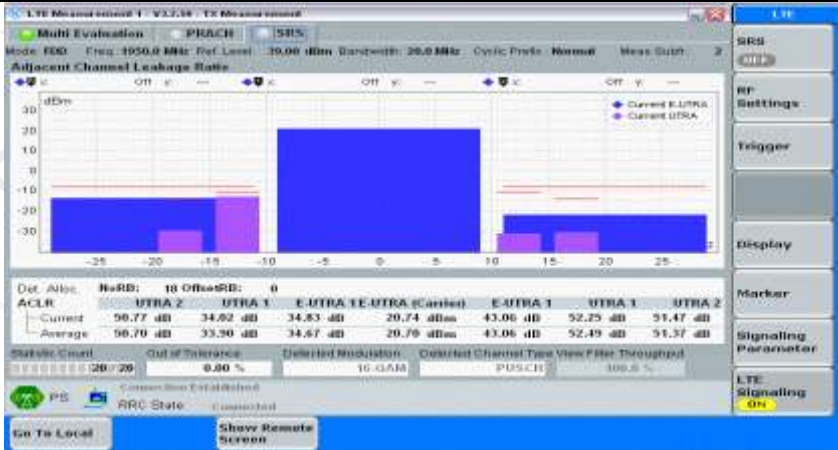


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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>

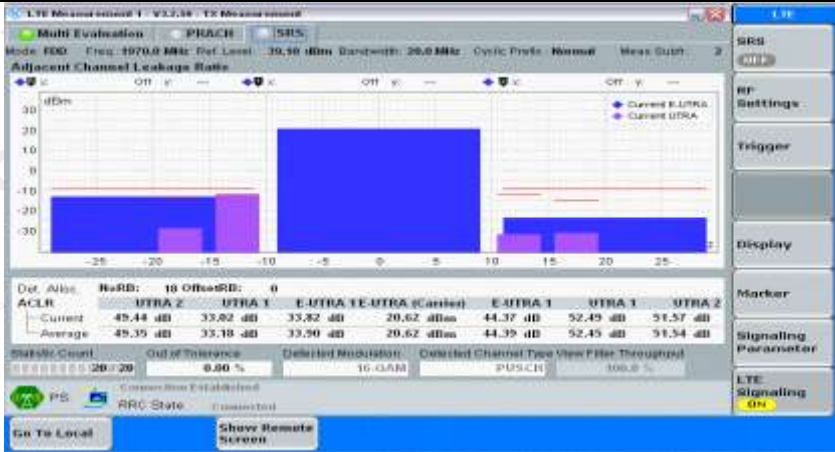
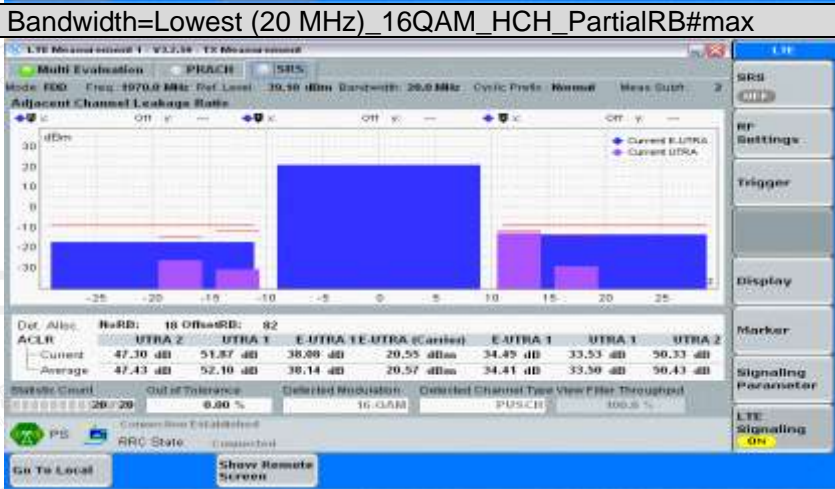
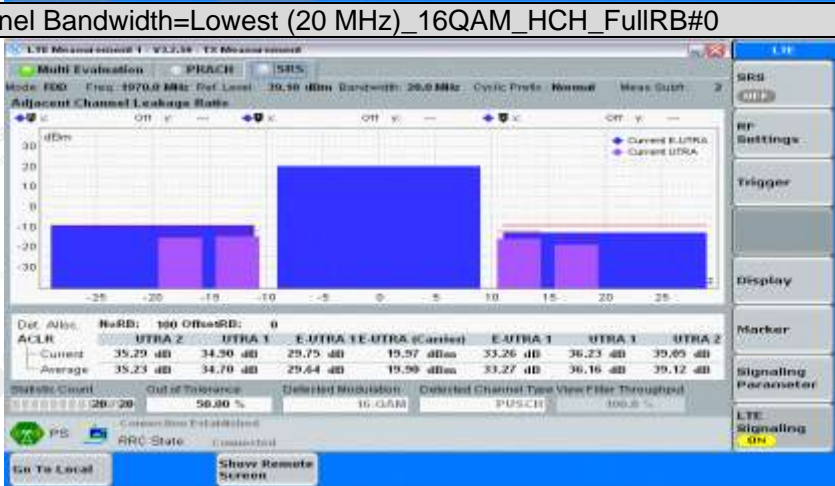
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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

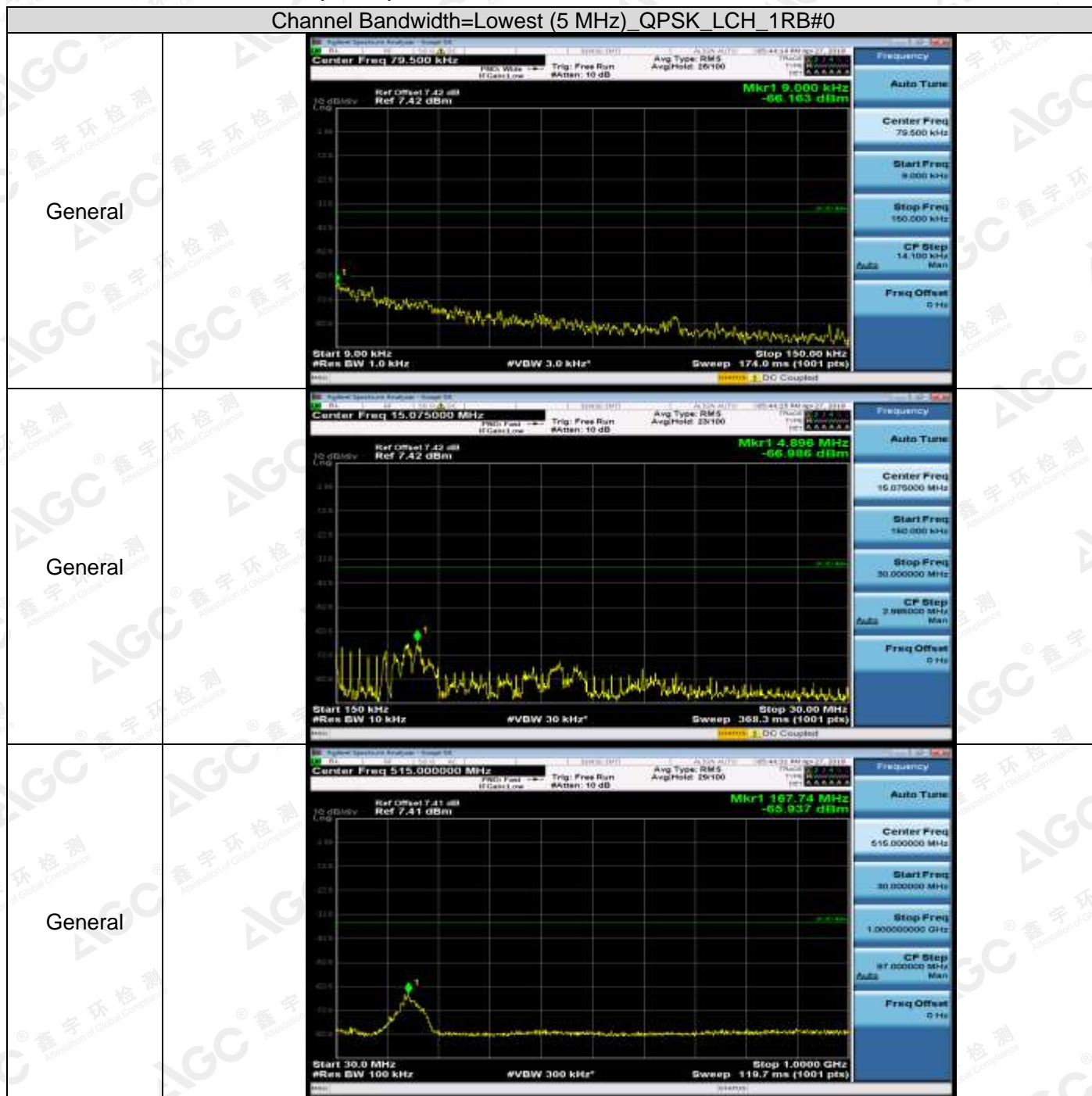
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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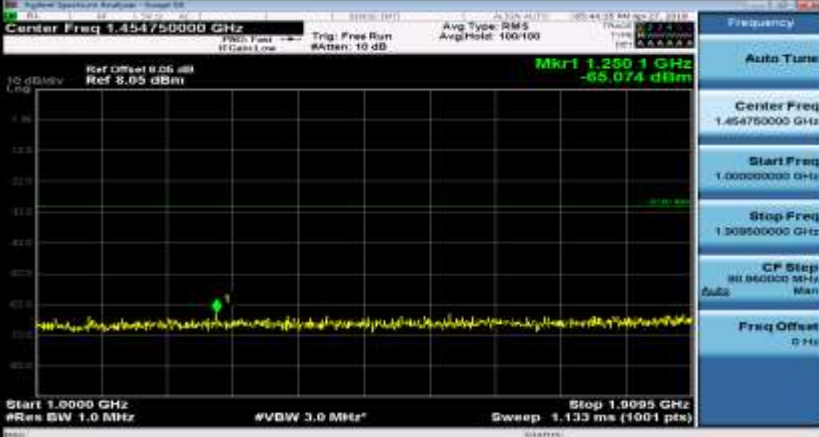
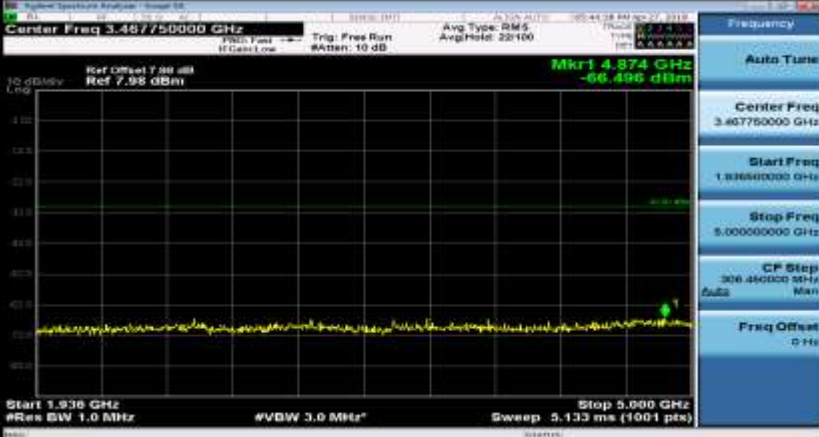

Test Graphs

NTNV

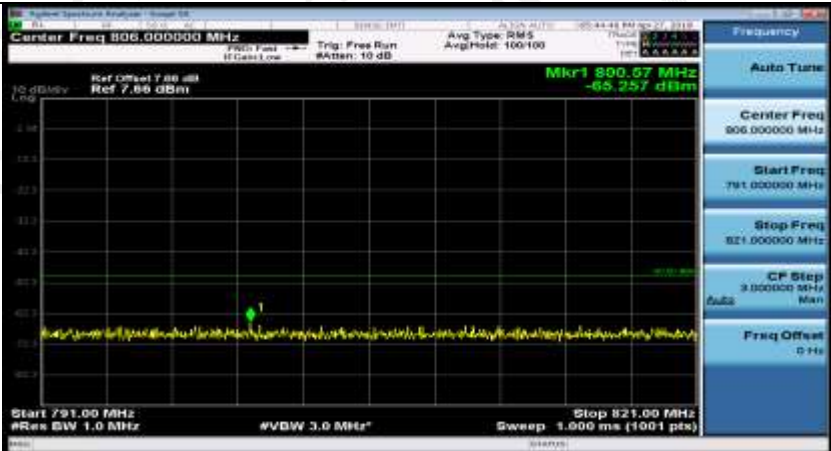
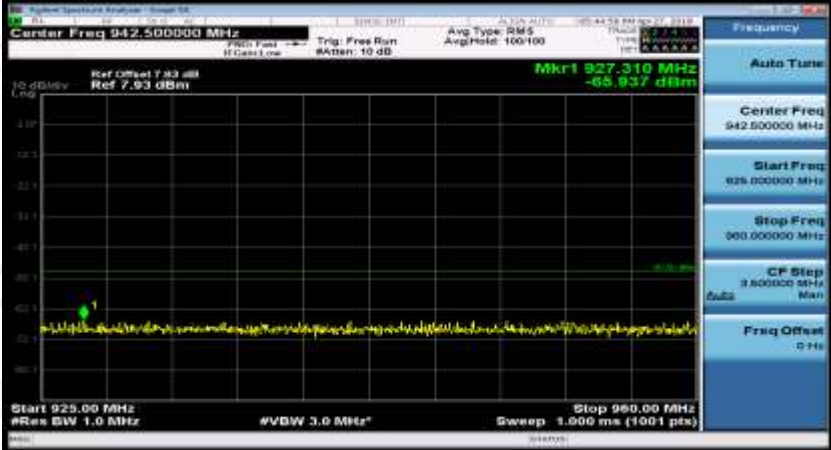
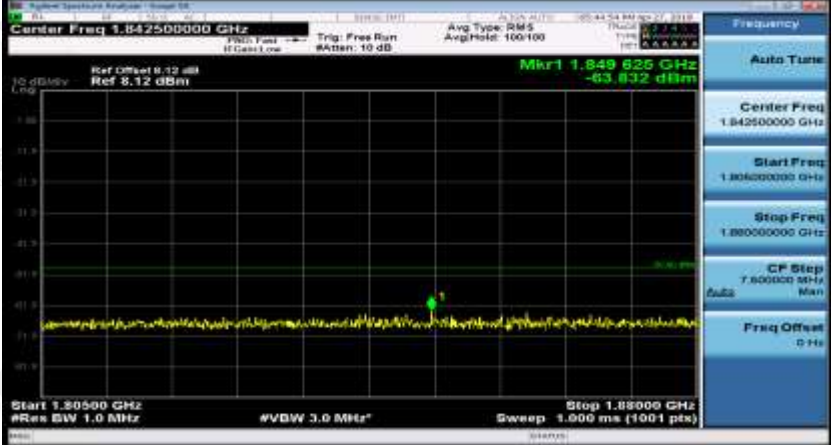
Channel Bandwidth=Lowest (5 MHz)



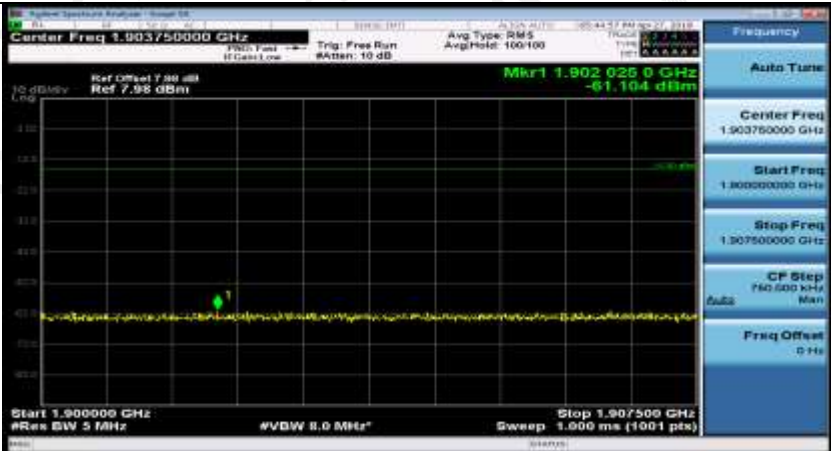
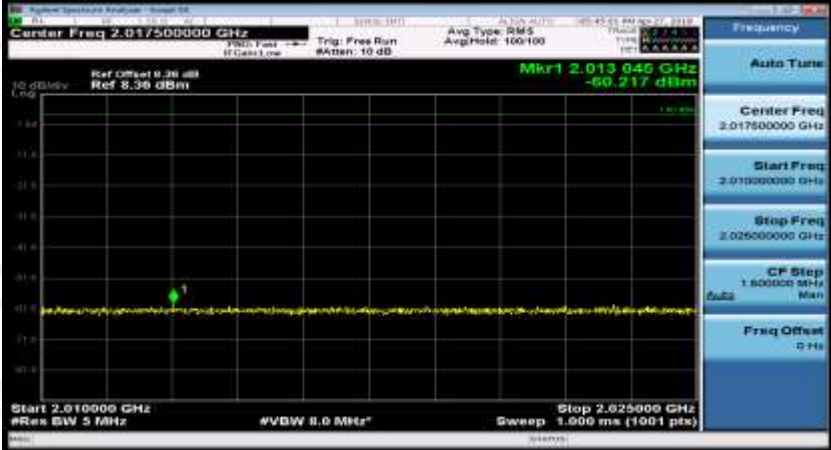
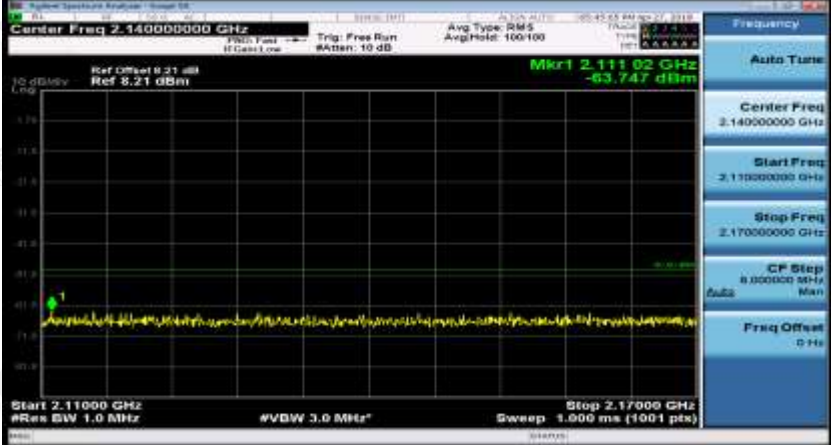
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General			
General			
General			

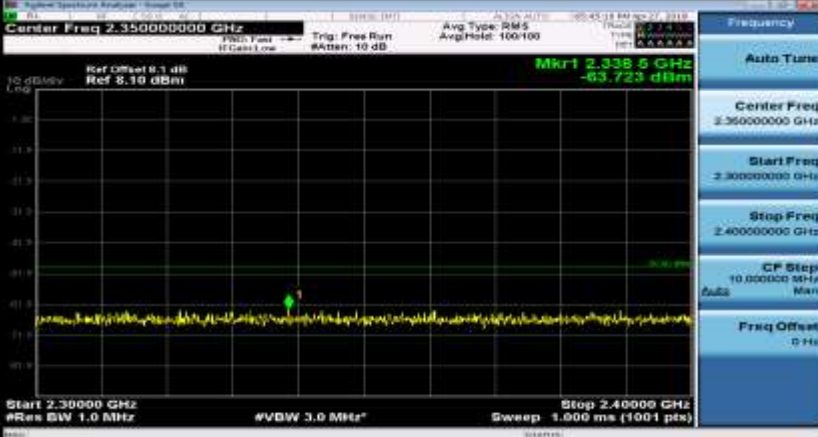

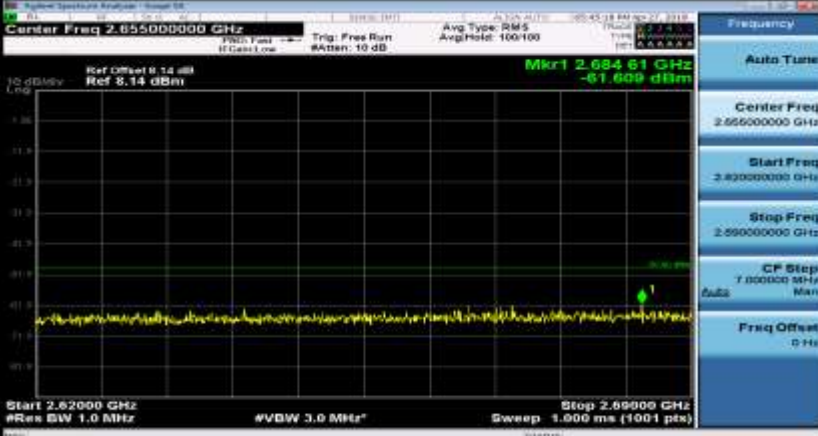
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Co-existence	
Co-existence	
Co-existence	

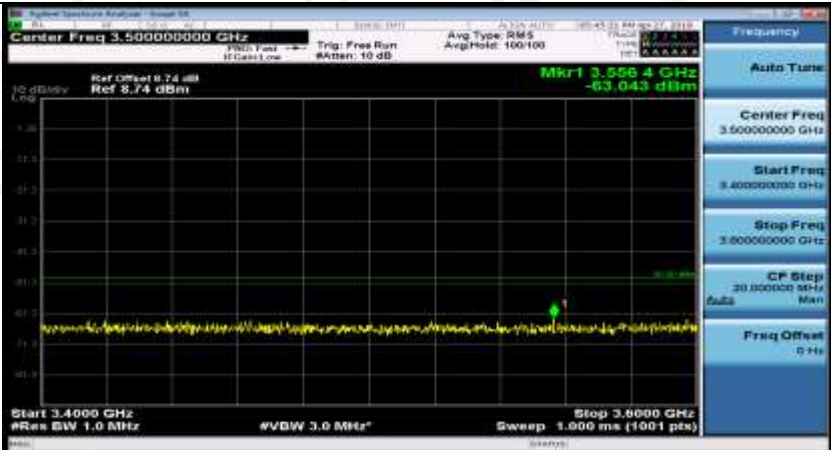
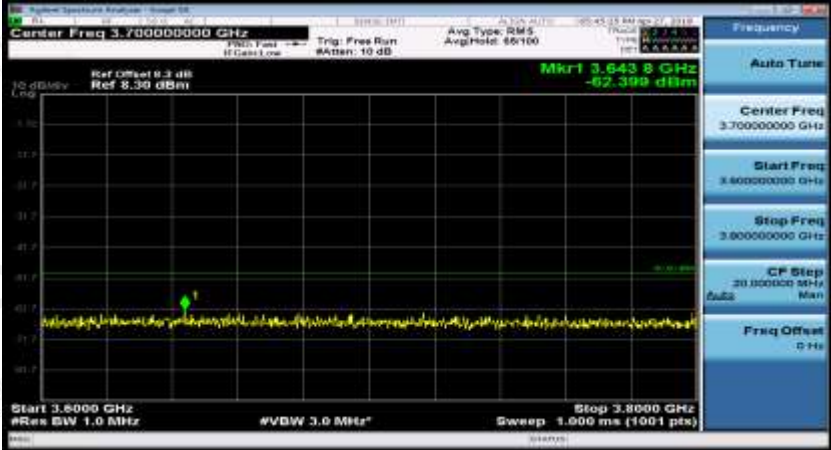
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Co-existence	
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Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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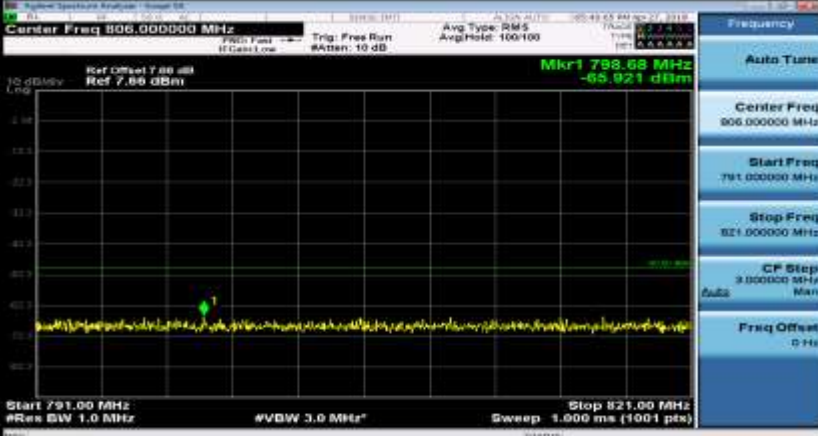
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	

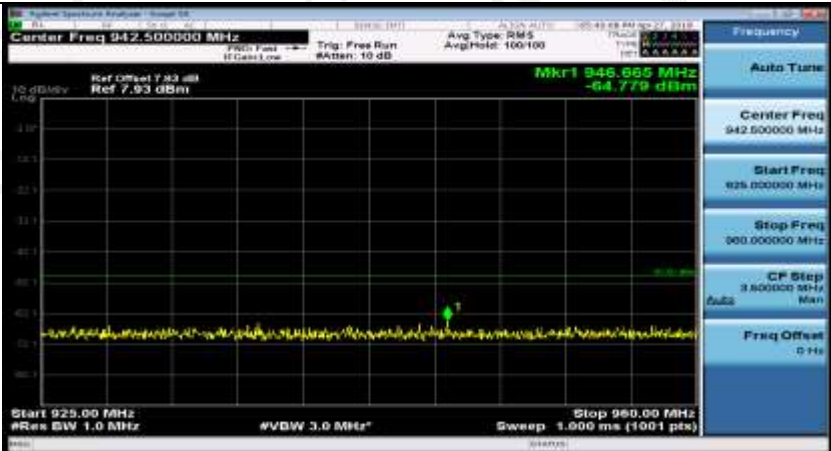
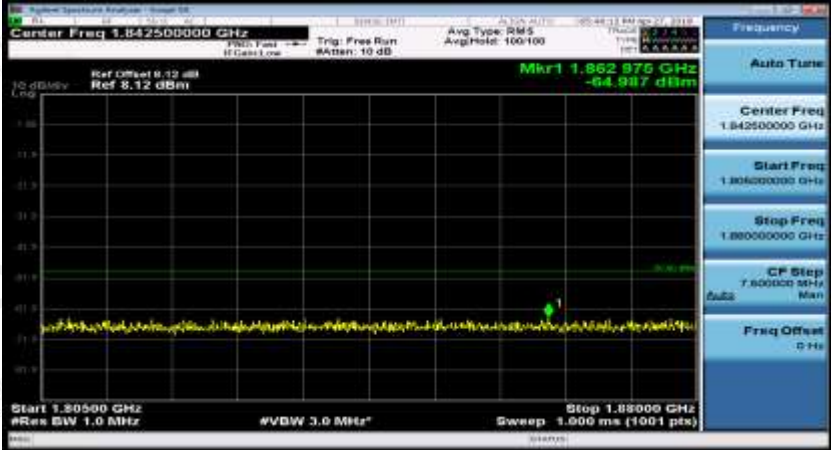
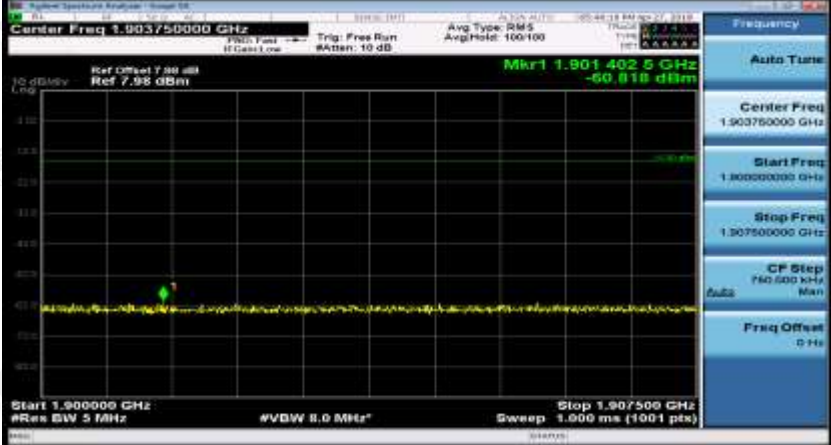
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General			
General			
General			

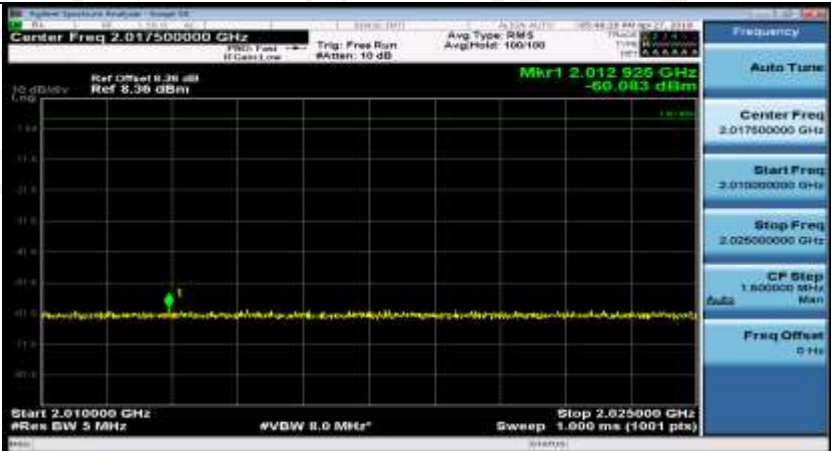
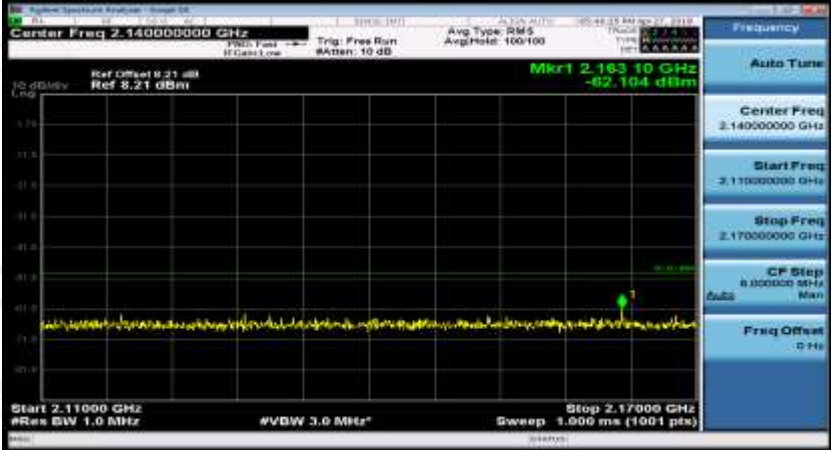
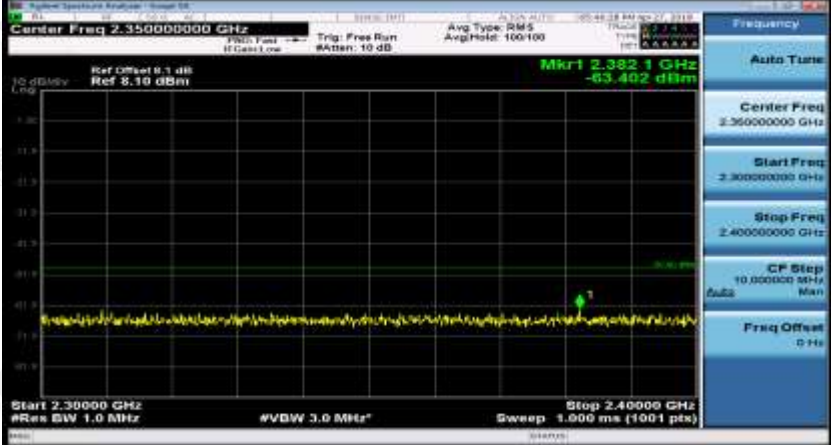
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General			
General			
Co-existence			

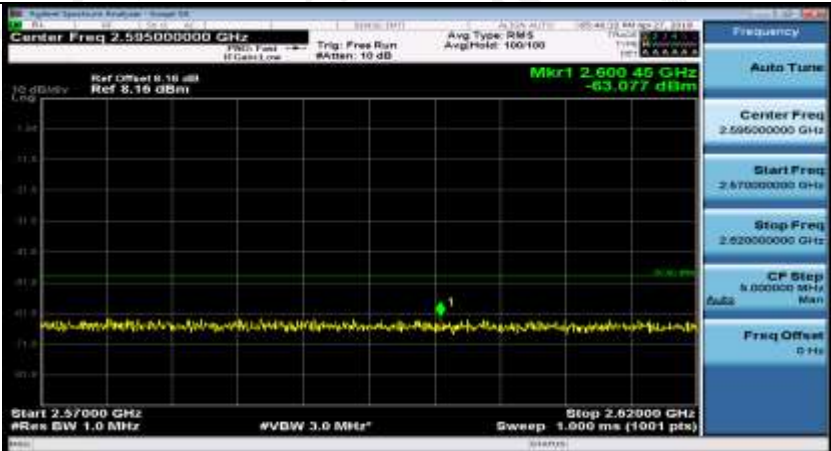
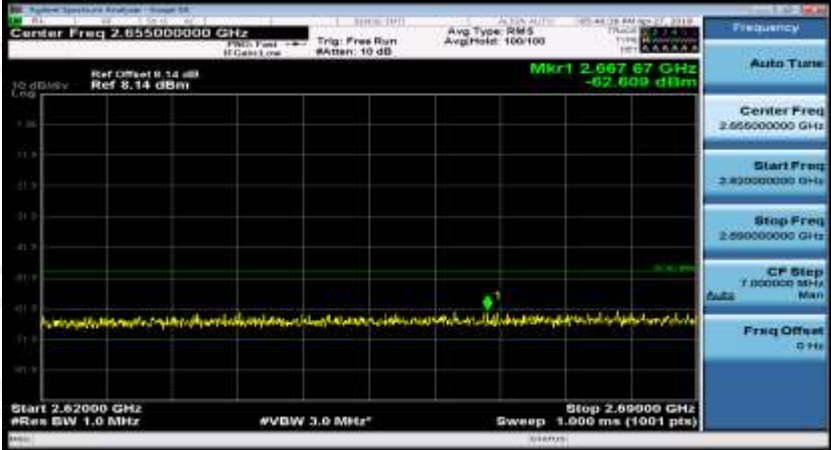
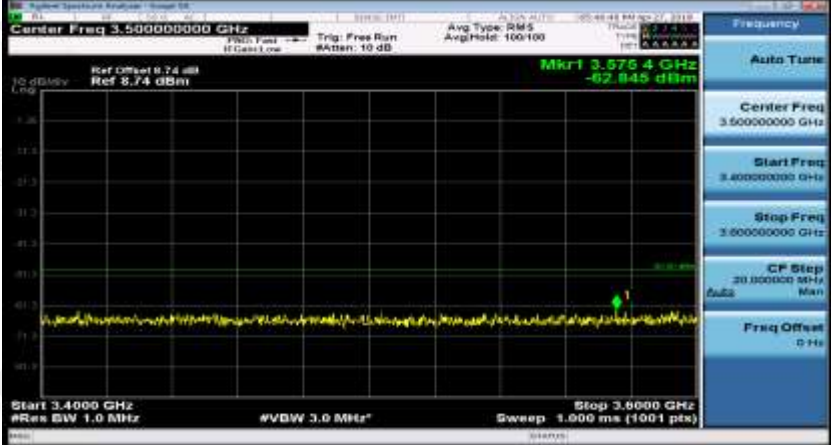
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Co-existence	
Co-existence	
Co-existence	

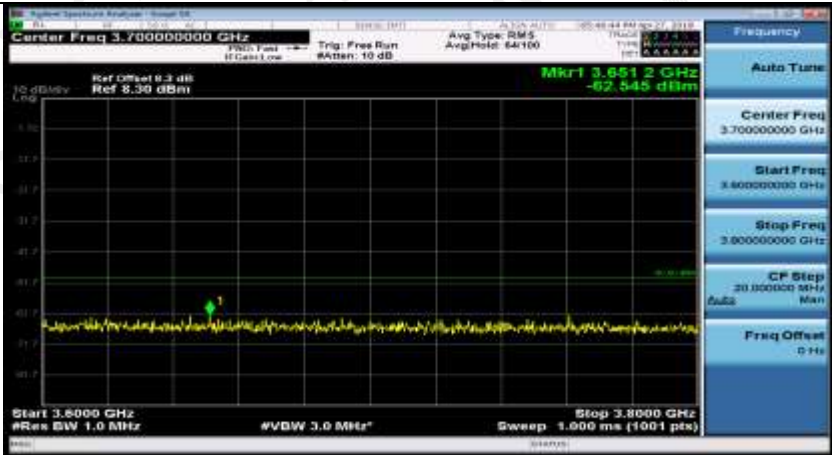
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Co-existence	

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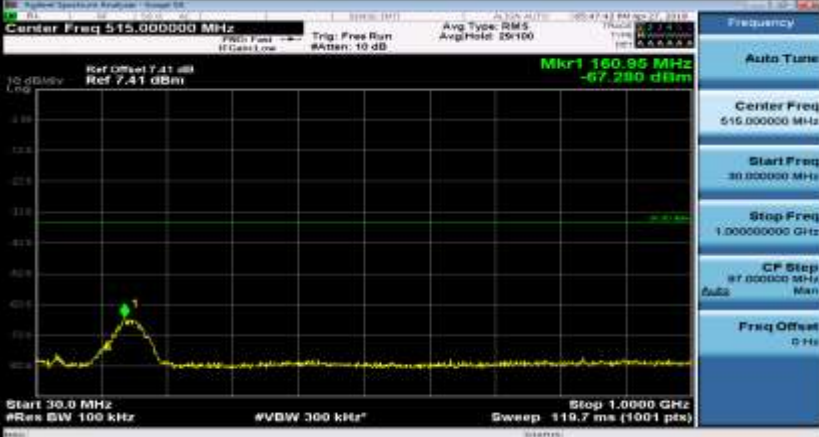
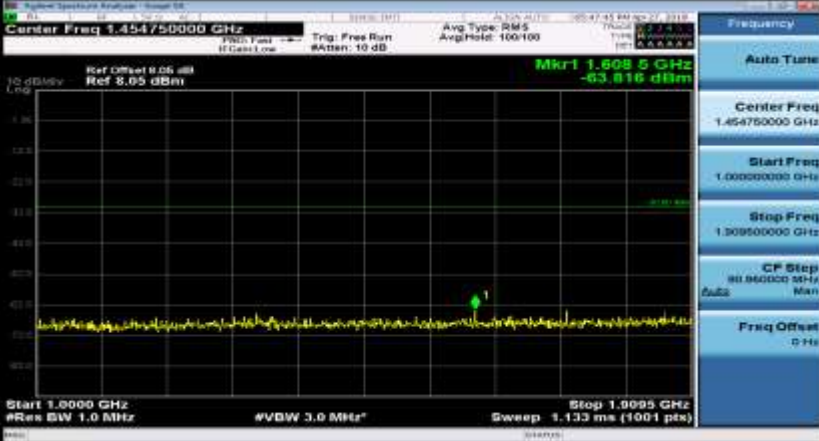

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0	
General	
General	

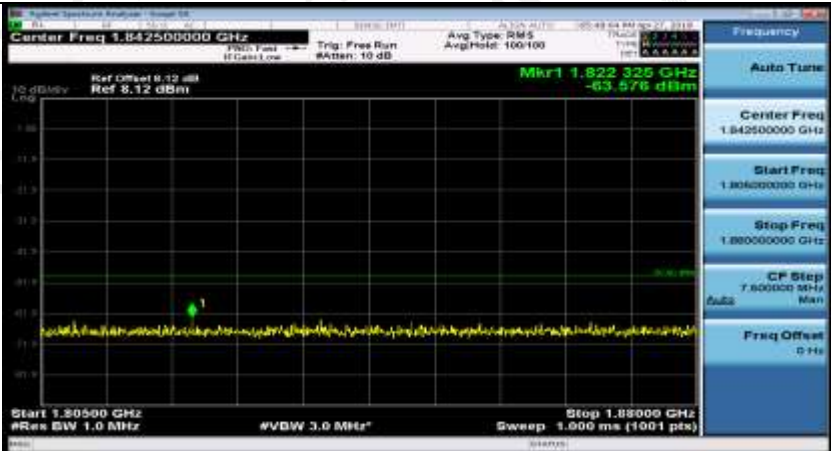
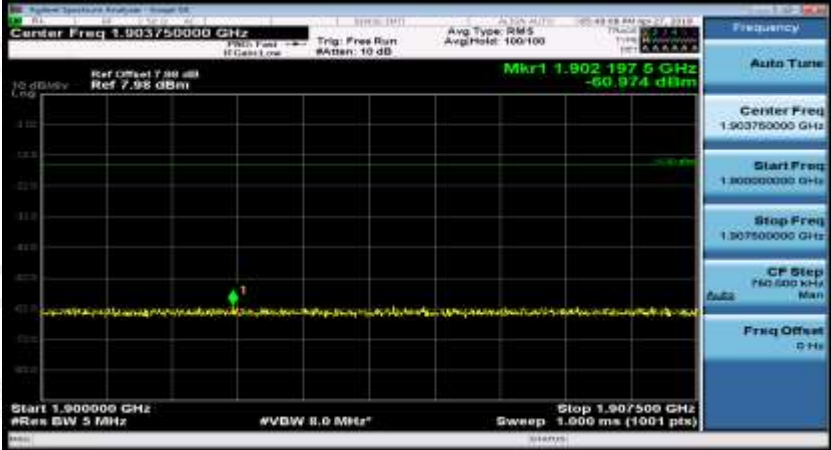
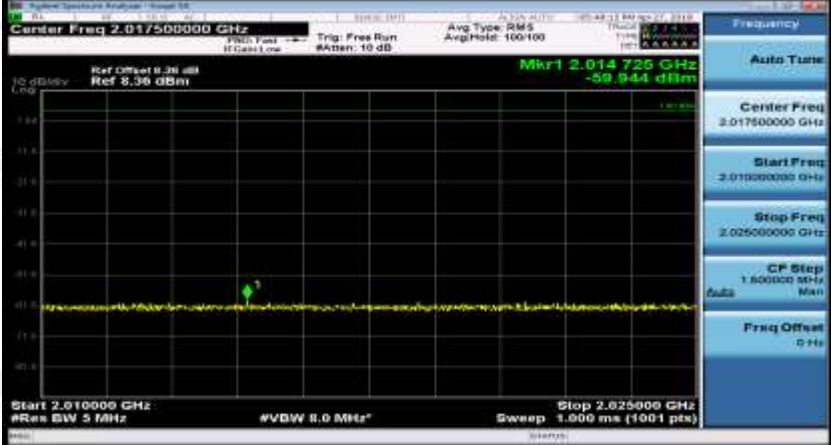
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General			
General			
General			

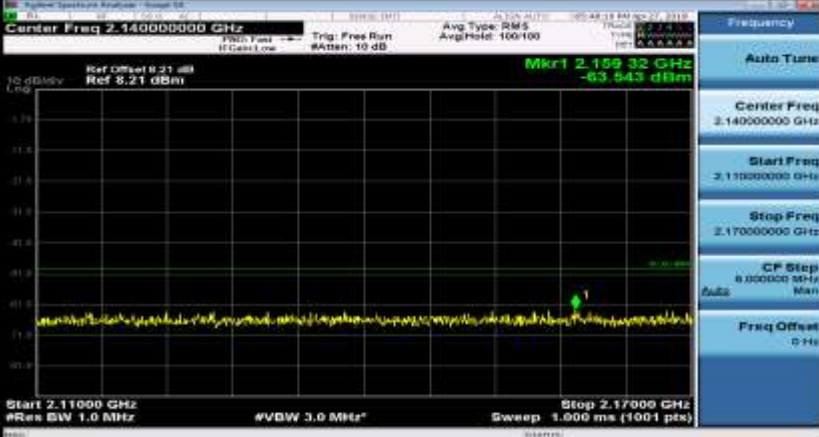
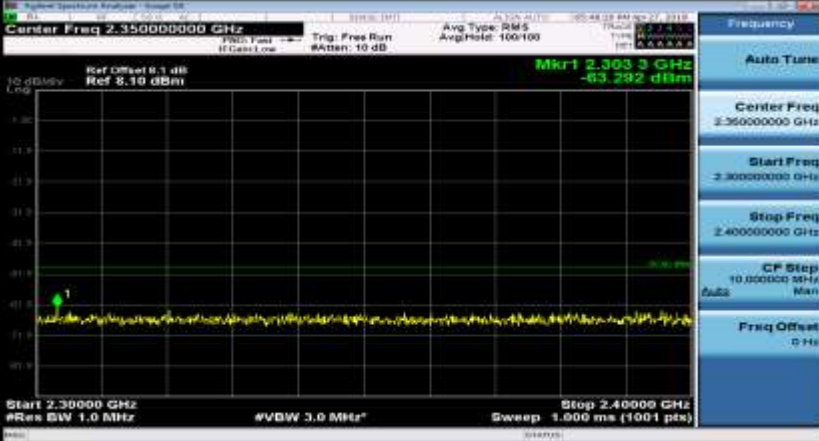
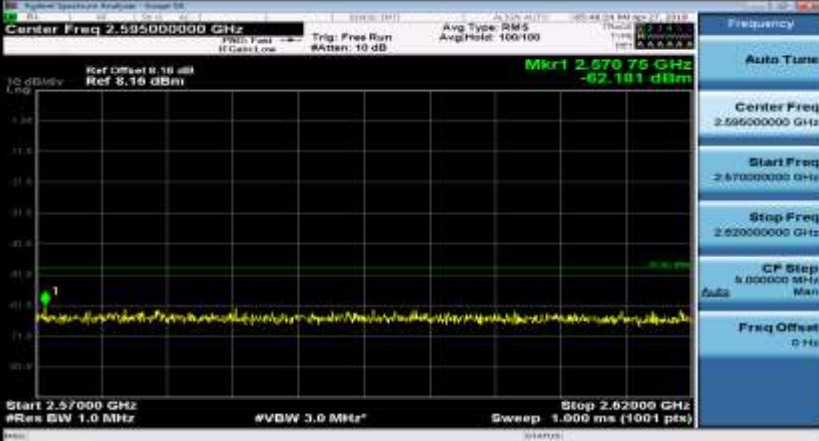
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General			
Co-existence			
Co-existence			

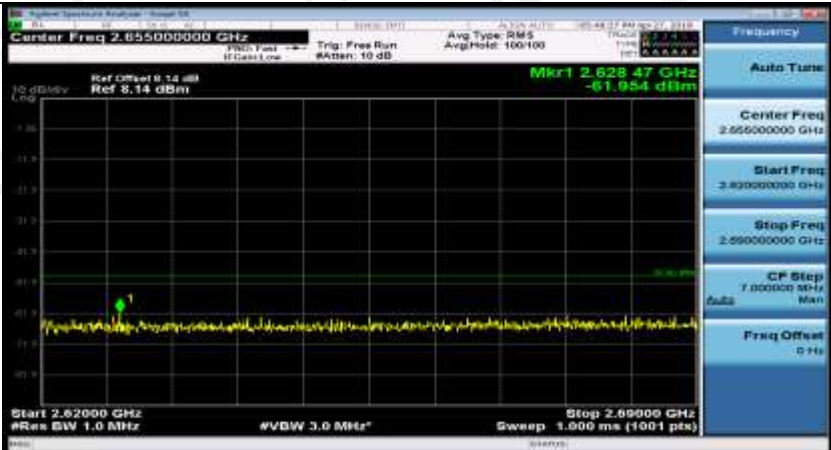


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Co-existence	
Co-existence	
Co-existence	

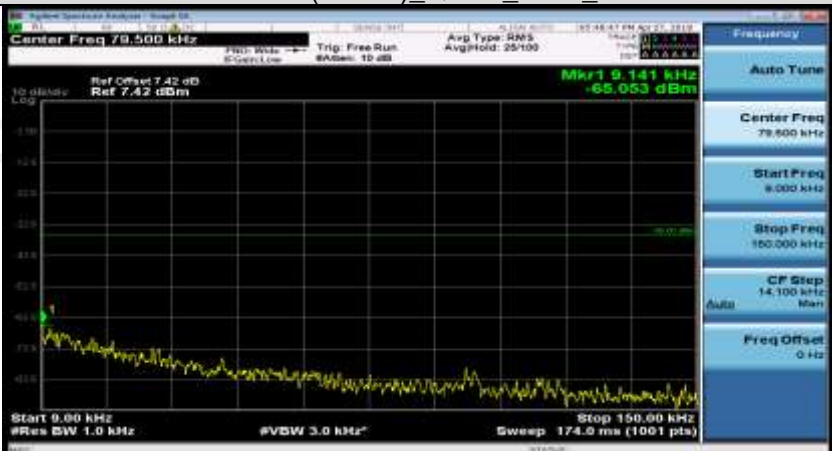

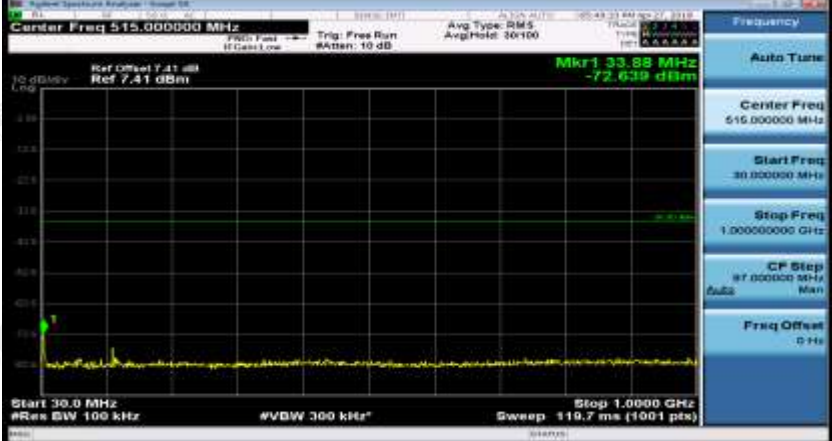
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Co-existence			
Co-existence			
Co-existence			

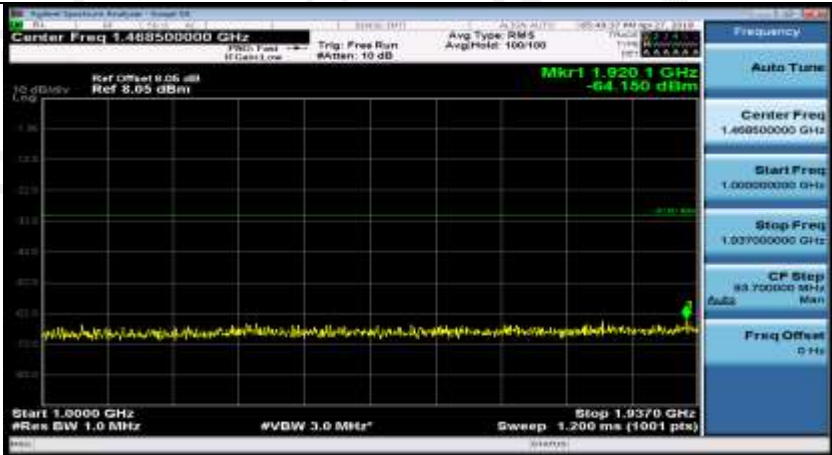
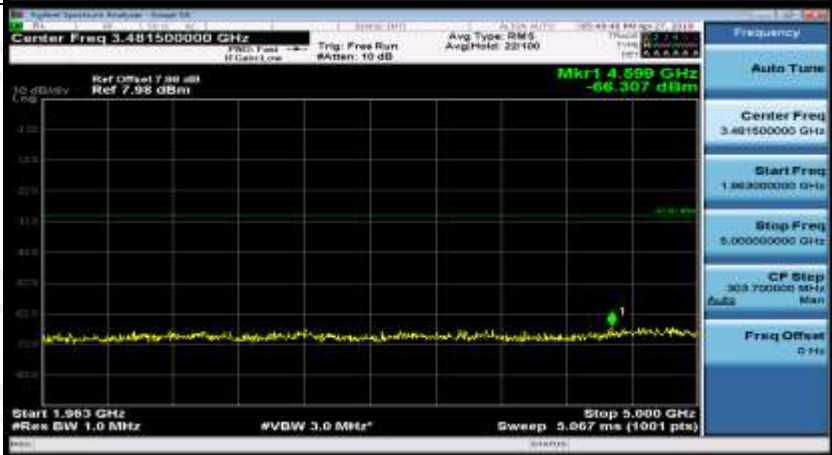

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

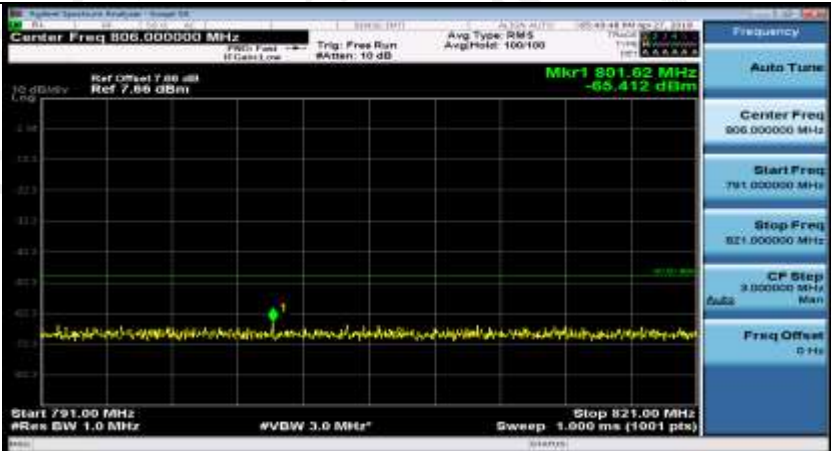
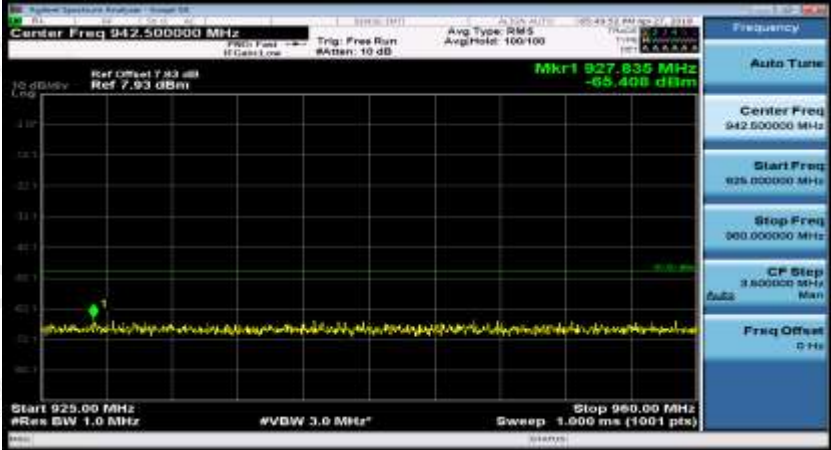
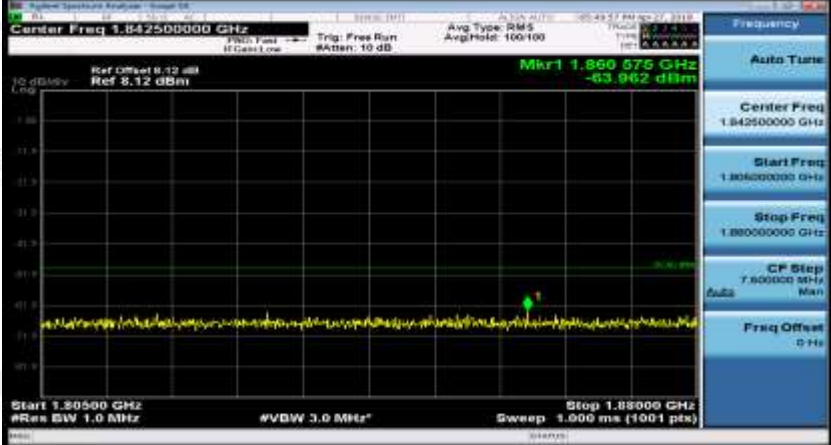
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Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0		
General		
General		
General		

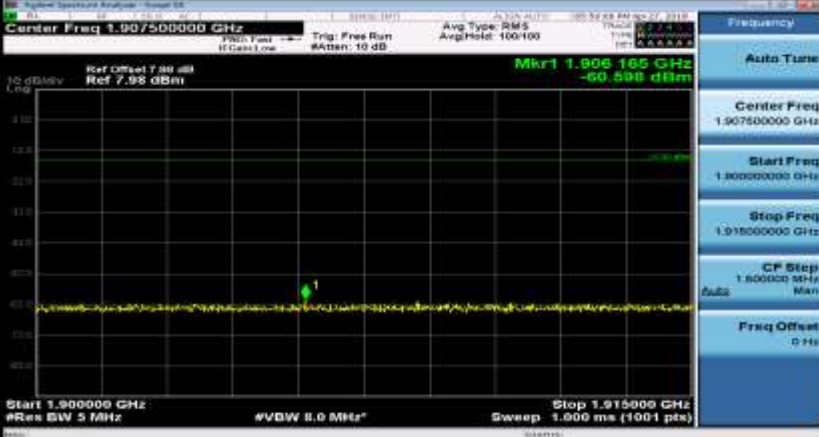
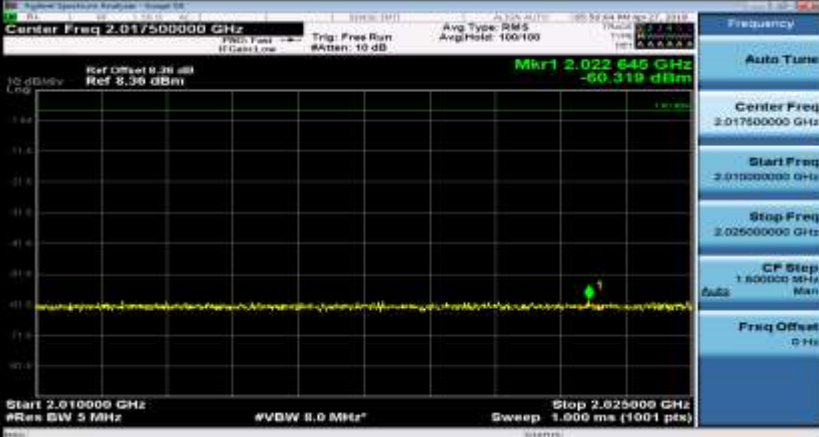

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General			
General			
General			

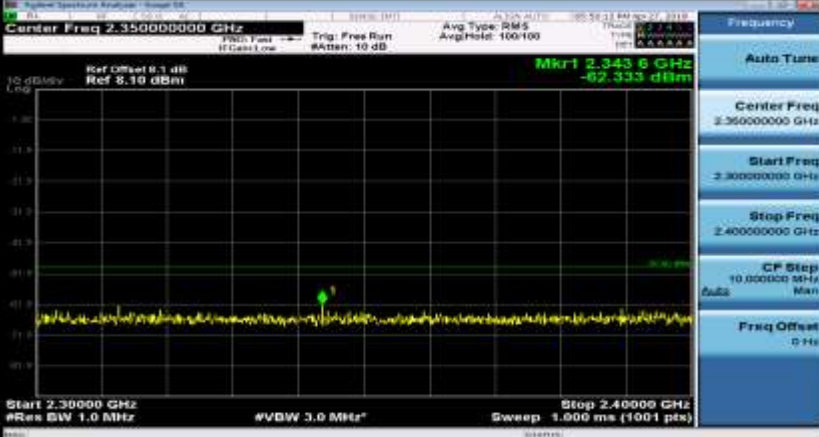
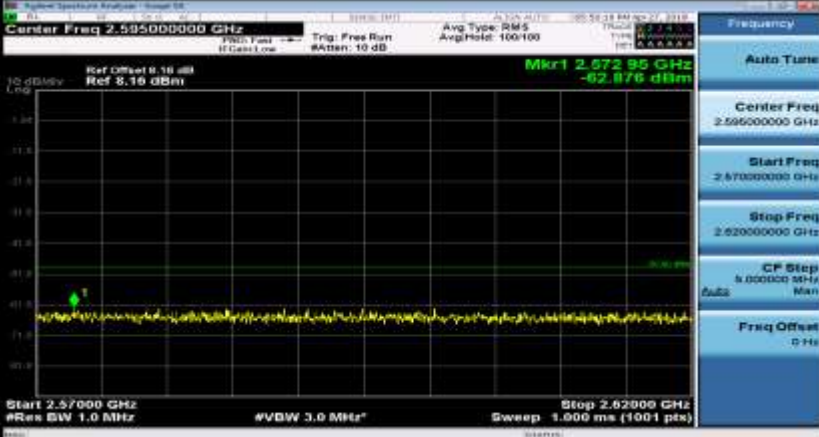

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Co-existence	
Co-existence	
Co-existence	

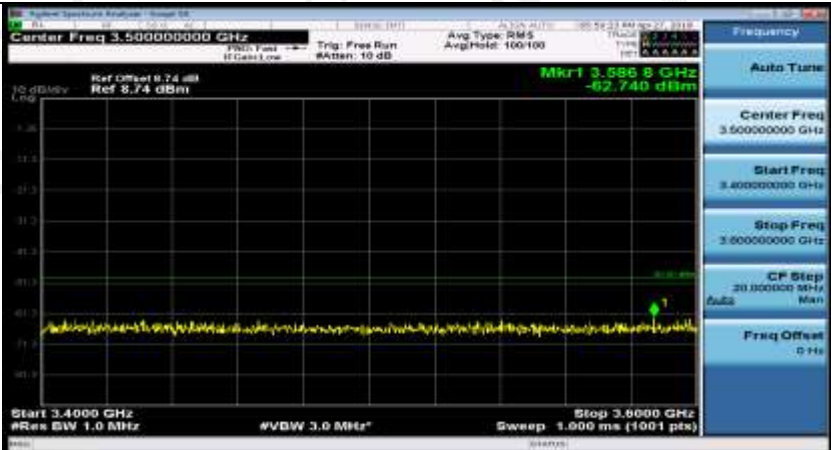
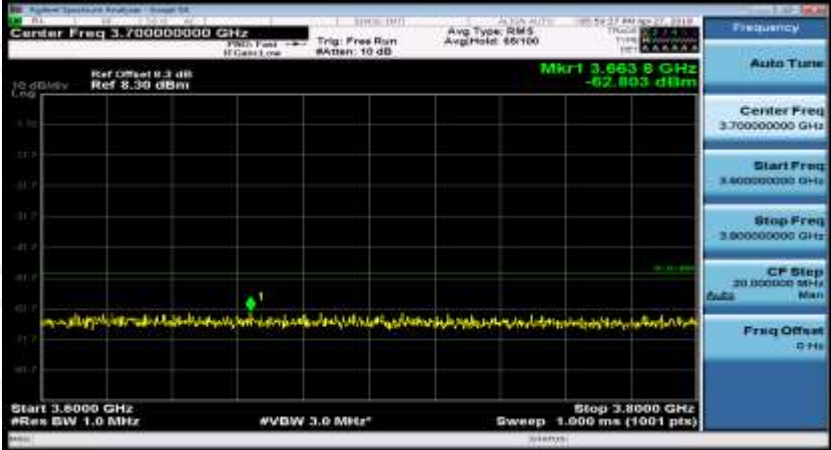
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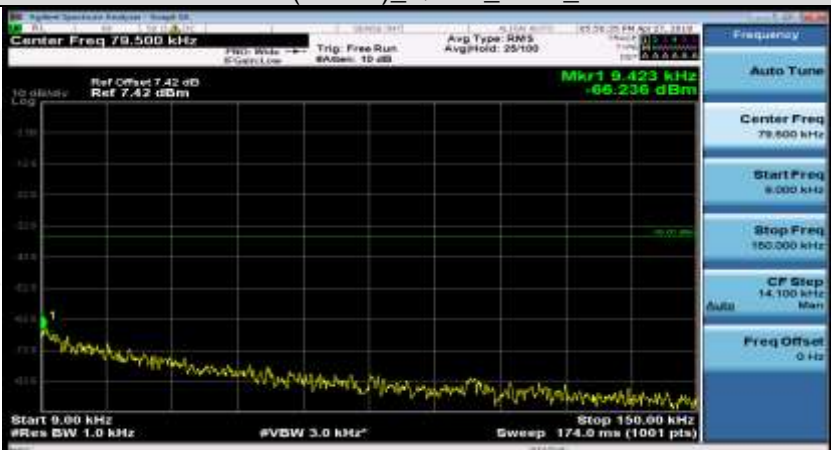
Co-existence			
Co-existence			
Co-existence			

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Co-existence			
Co-existence			
Co-existence			

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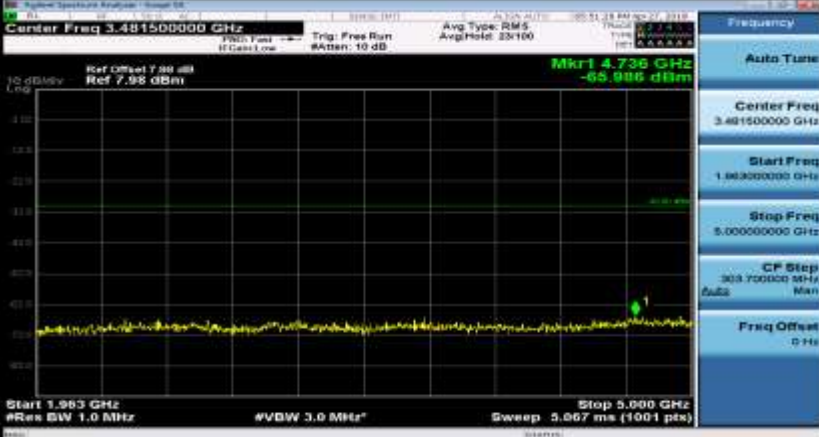

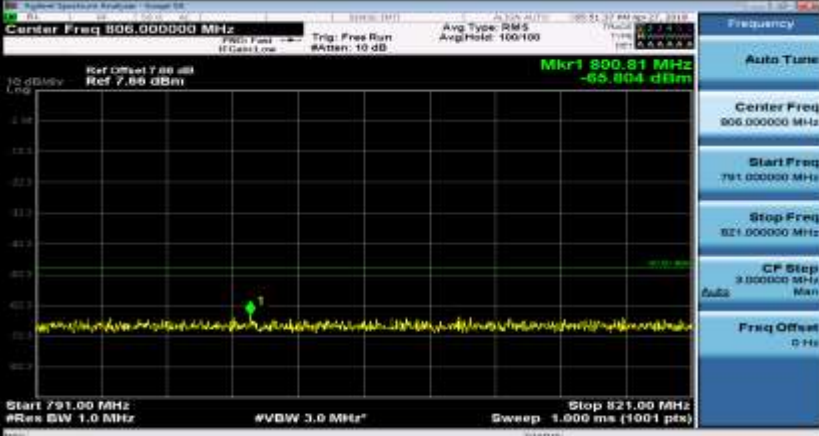
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	

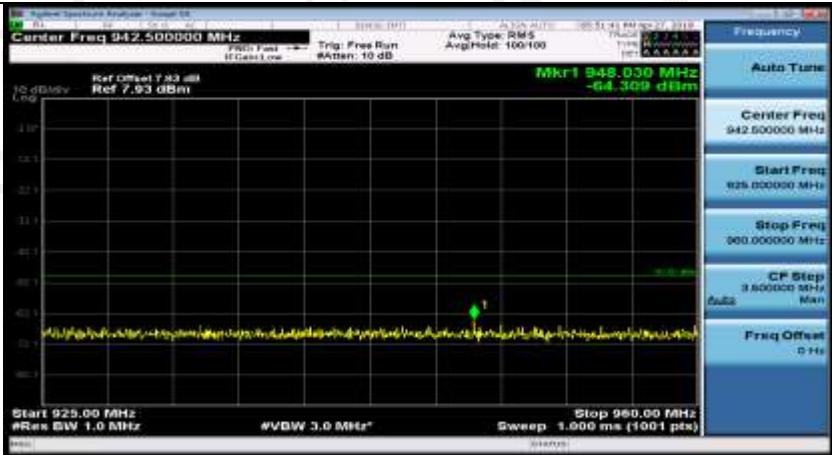
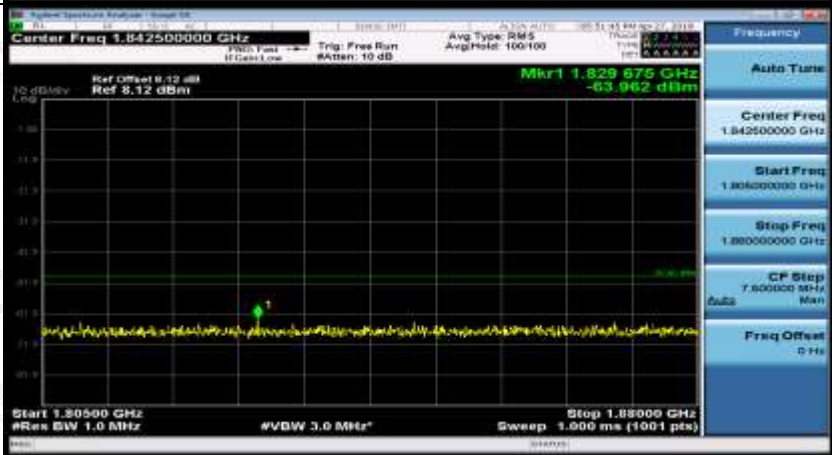
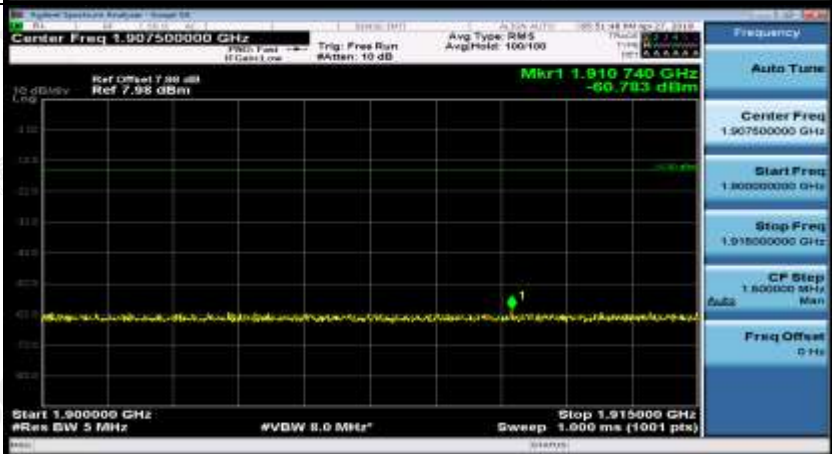
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General			
General			
General			

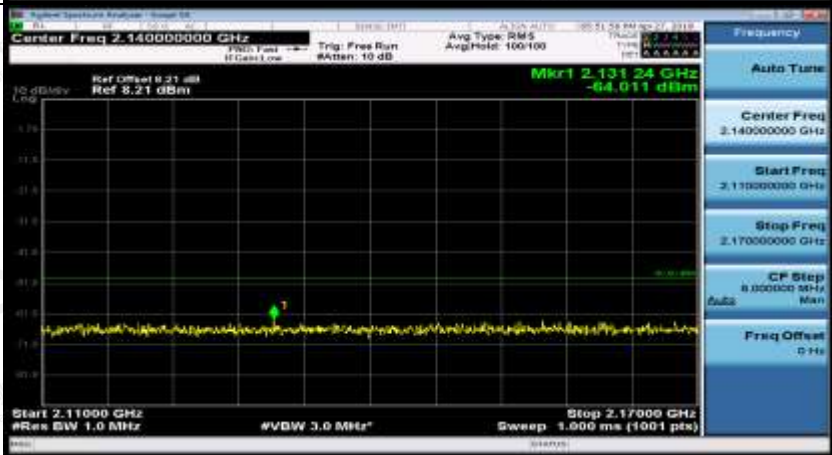

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General			
General			
Co-existence			

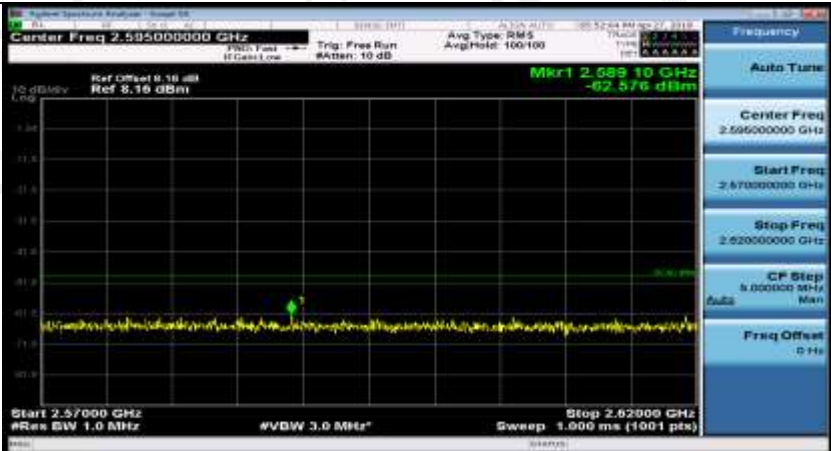

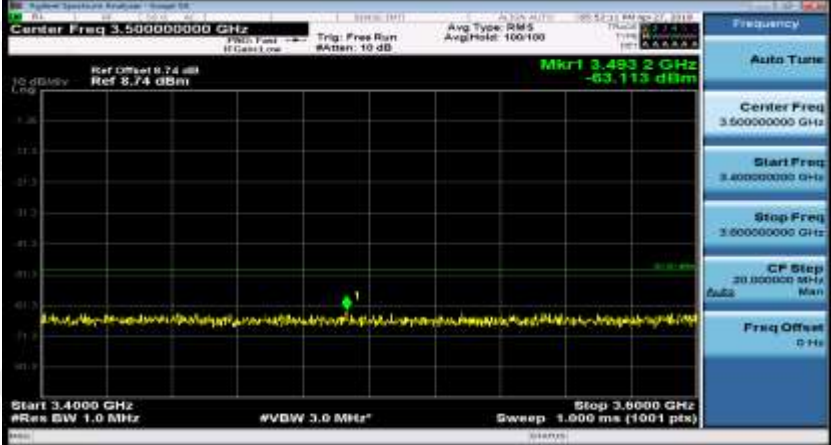
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Co-existence			
Co-existence			
Co-existence			

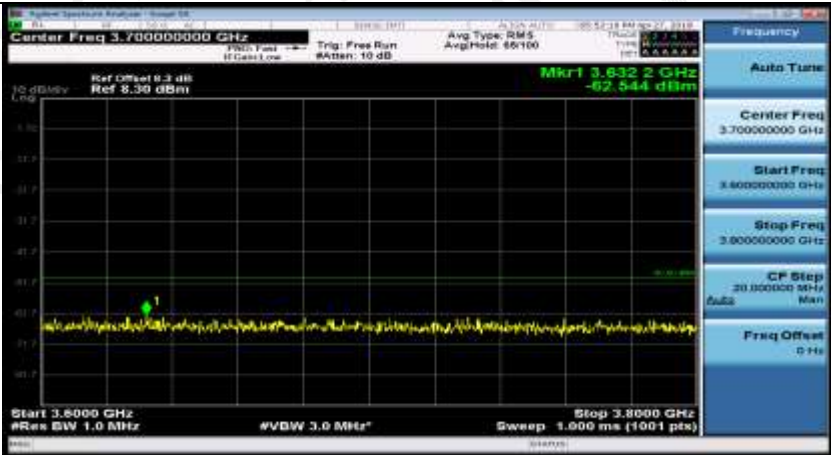
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Co-existence			
Co-existence			
Co-existence			

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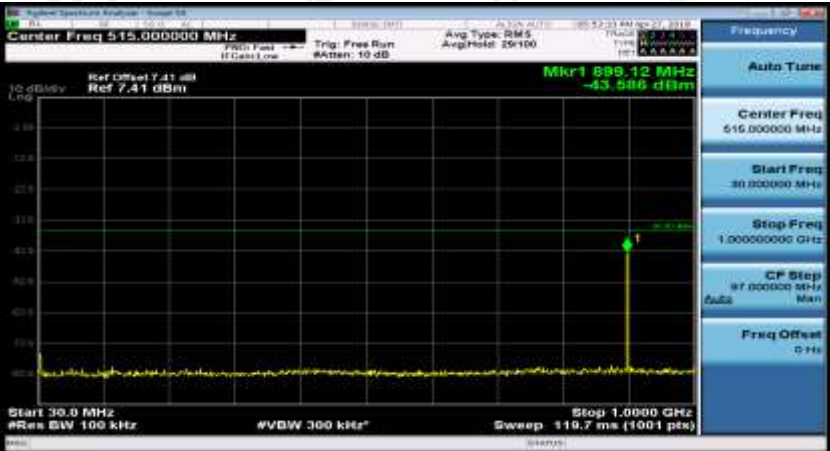
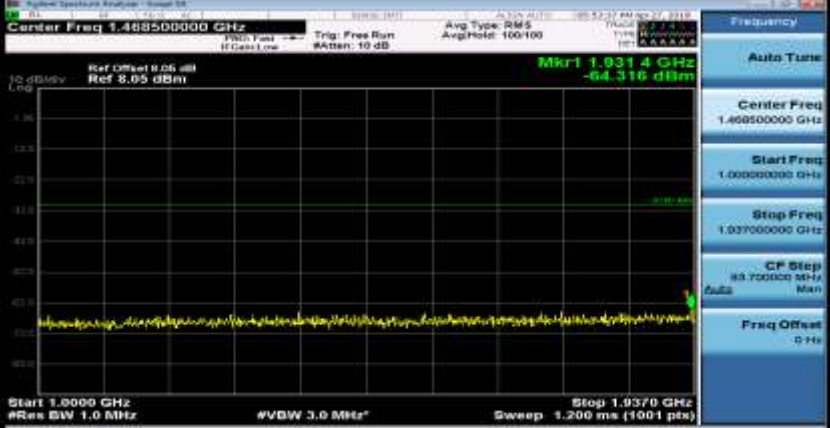

Co-existence	
Co-existence	
Co-existence	

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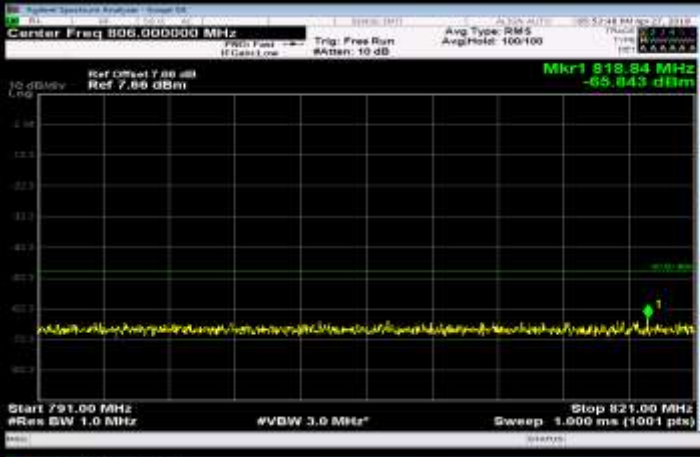
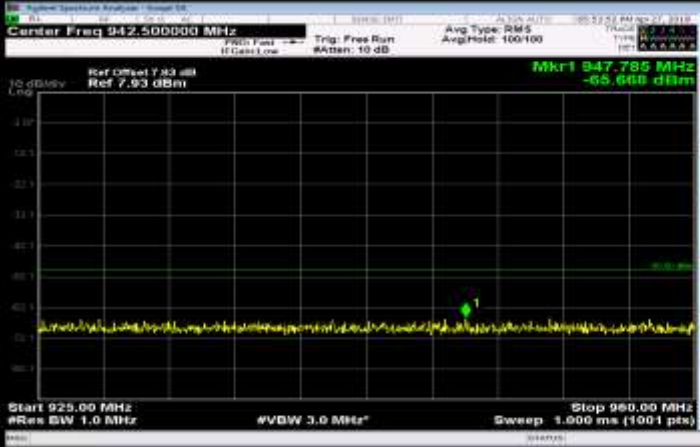
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
General	
General	

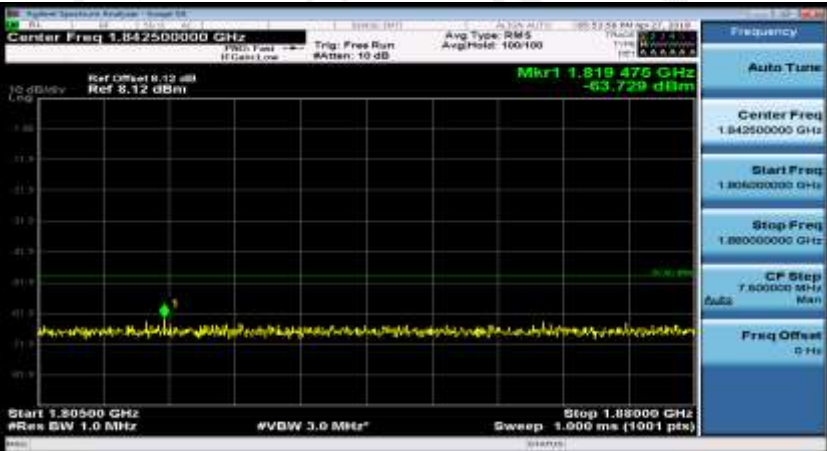
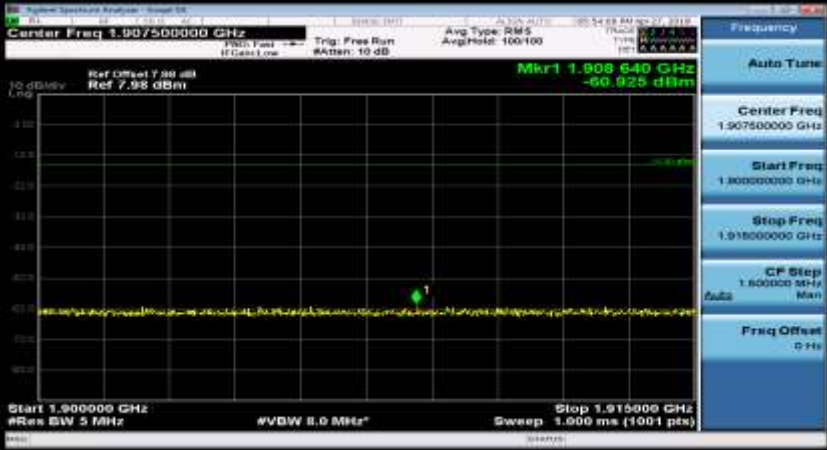
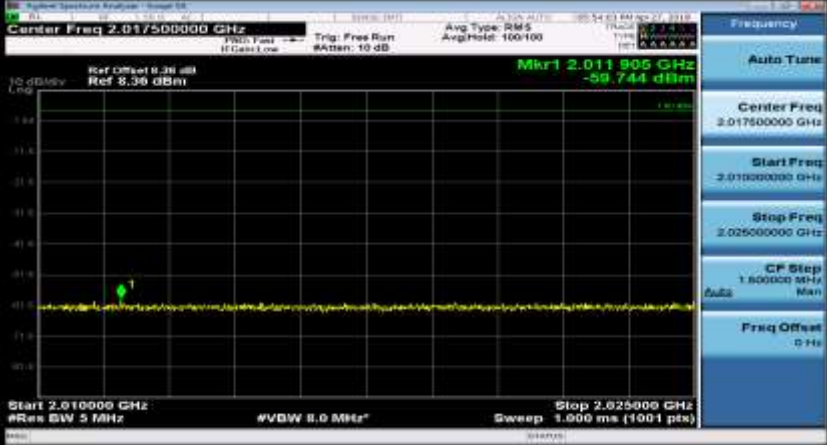
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General	
General	
General	

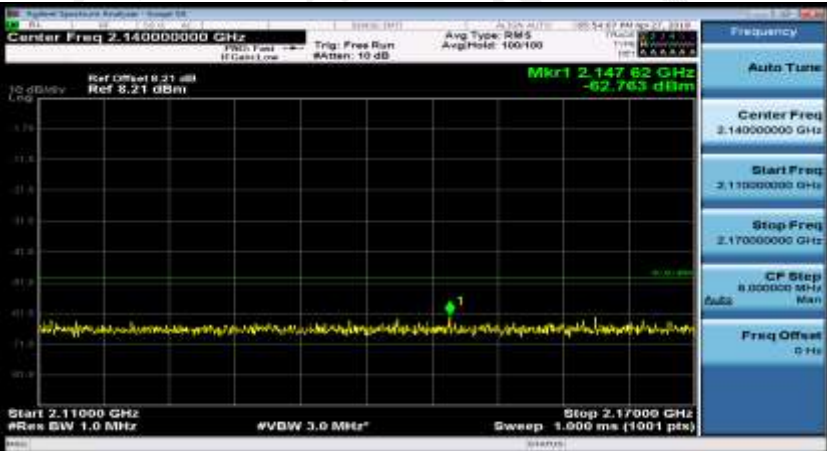

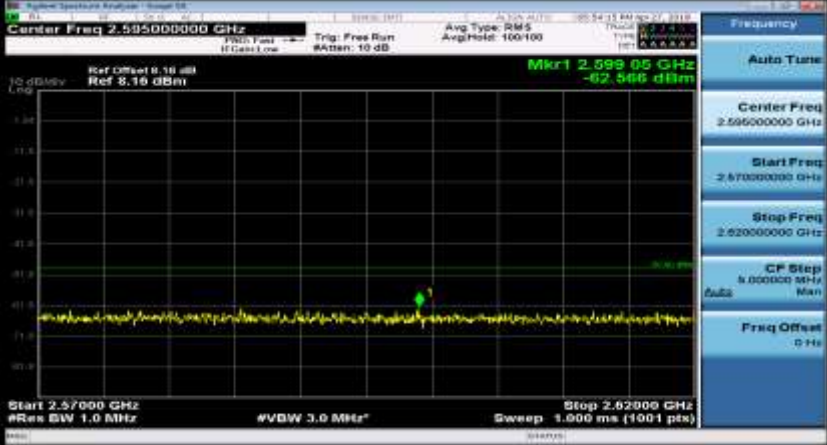
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 8.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 375.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 925.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

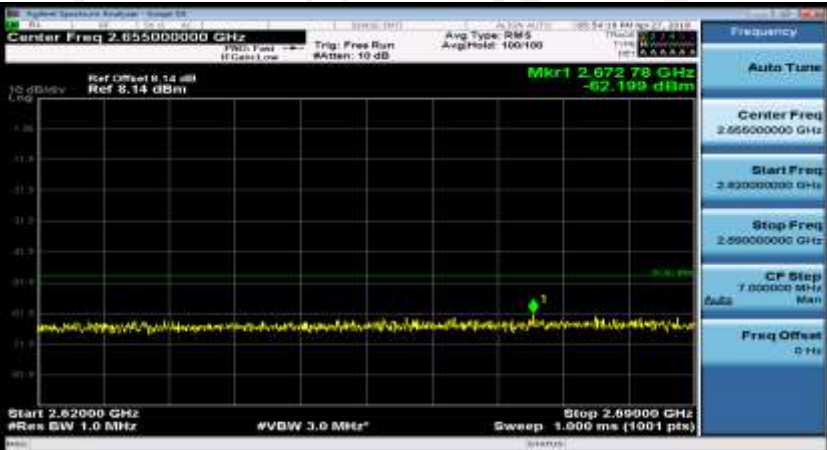
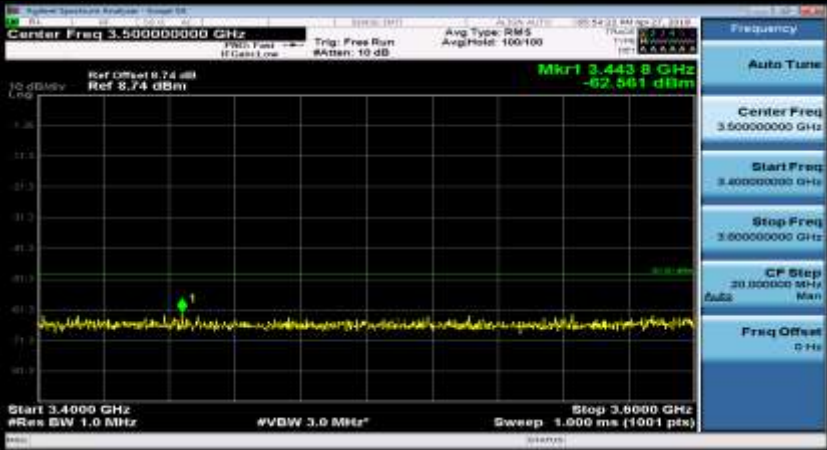
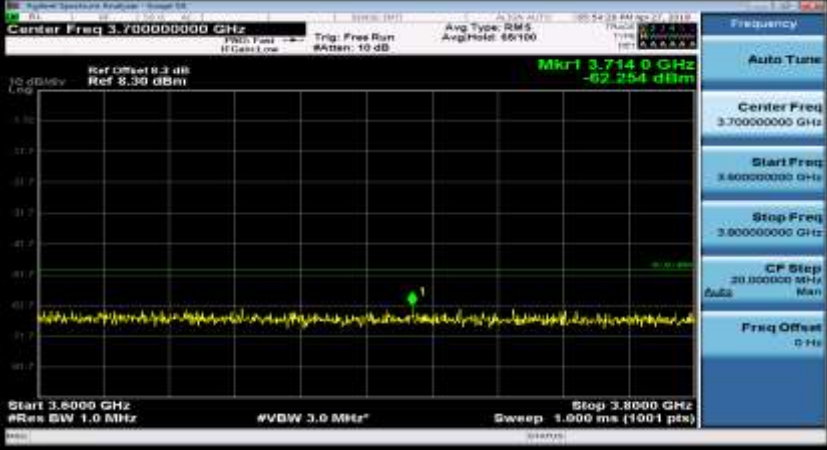
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

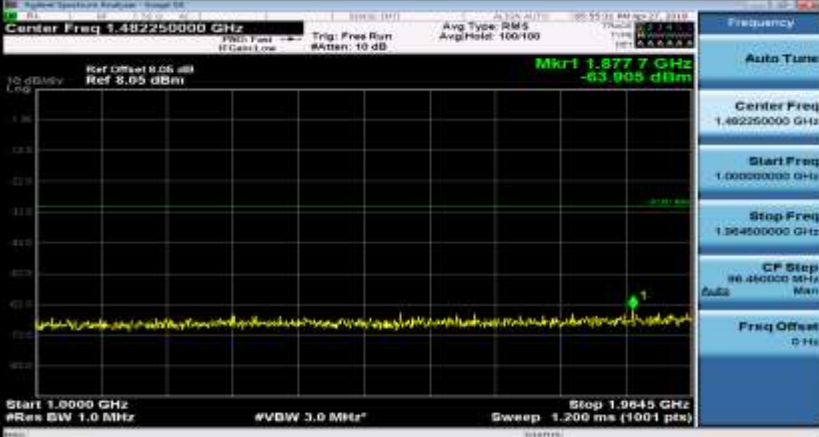
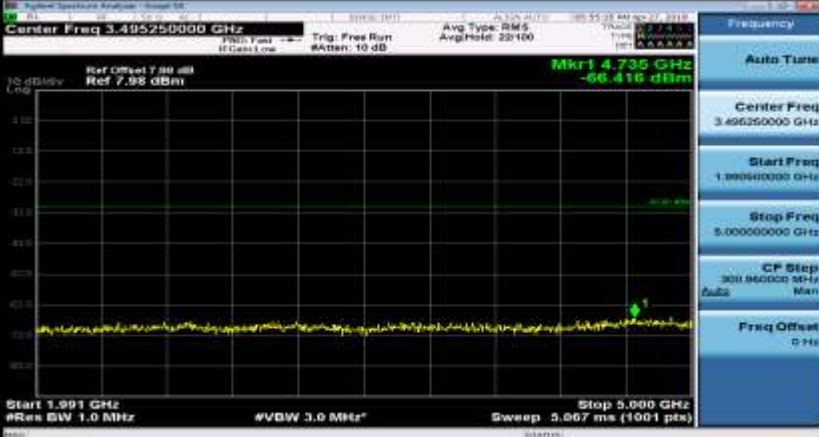

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

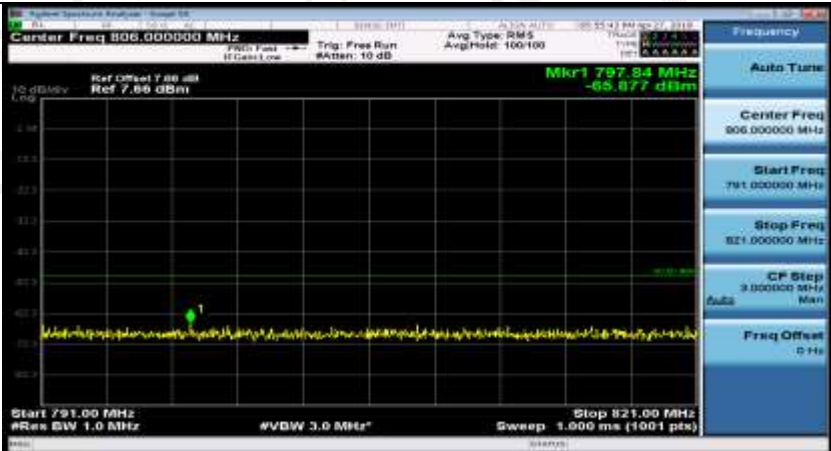
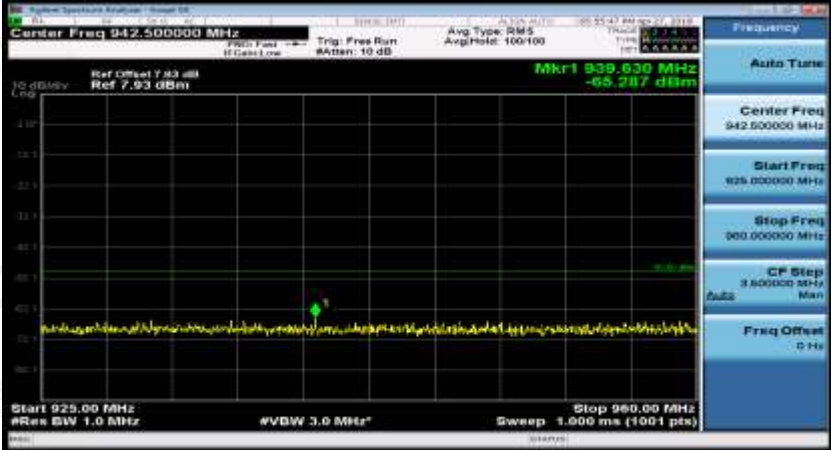
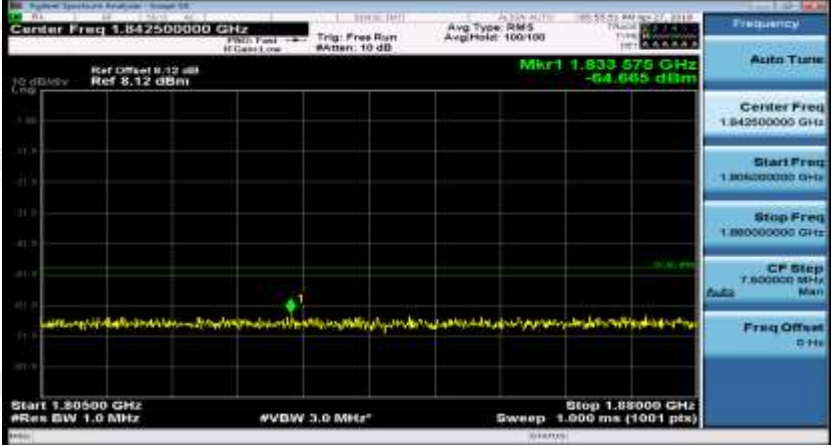
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Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0	
General	
General	
General	

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General			
General			
General			

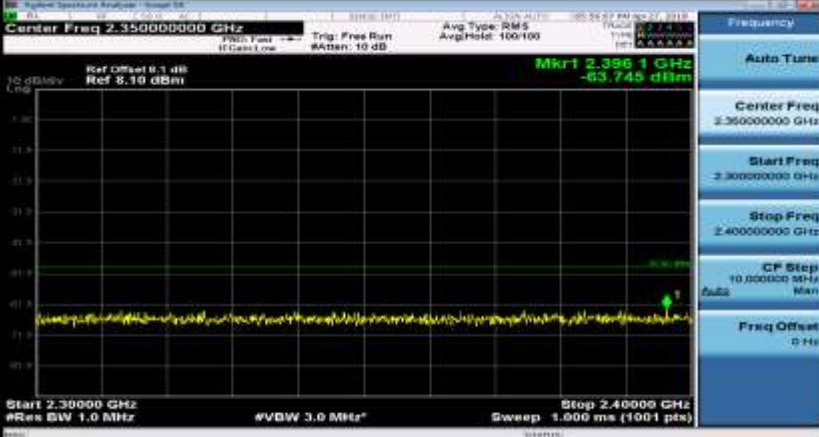
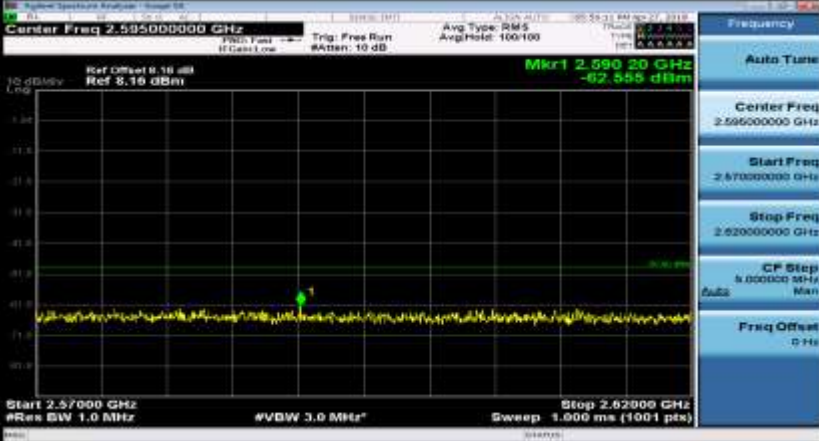
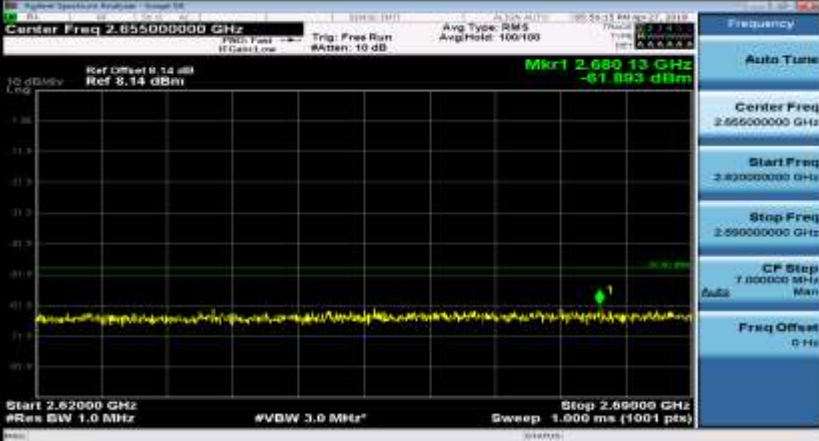
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Co-existence	
Co-existence	
Co-existence	

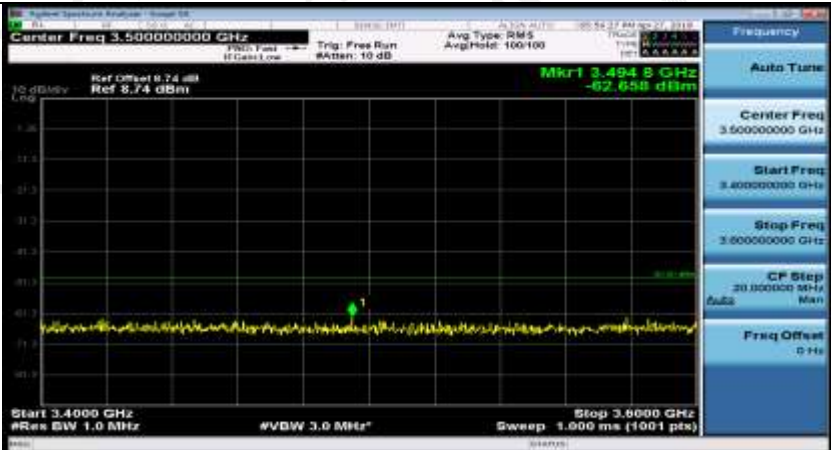
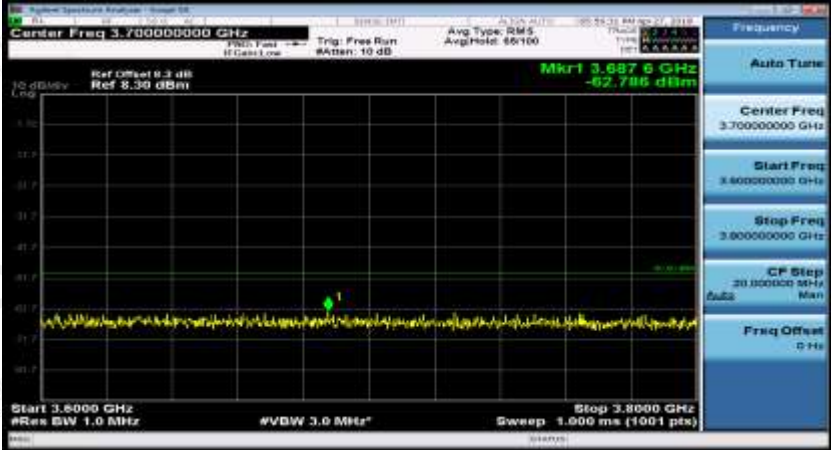
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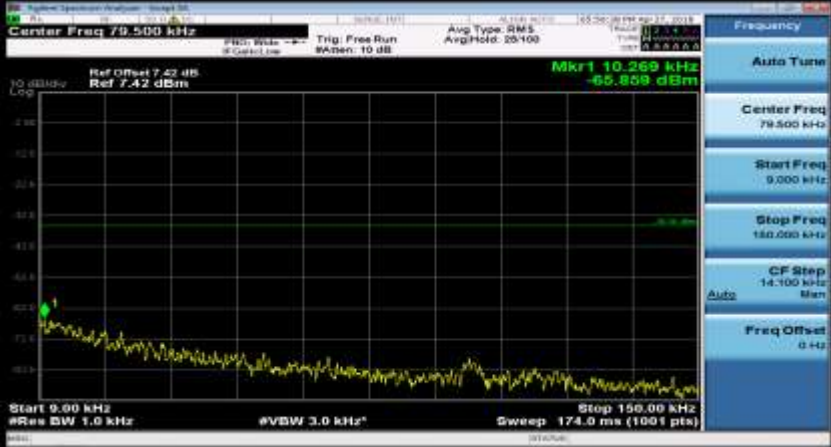
Co-existence	
Co-existence	
Co-existence	

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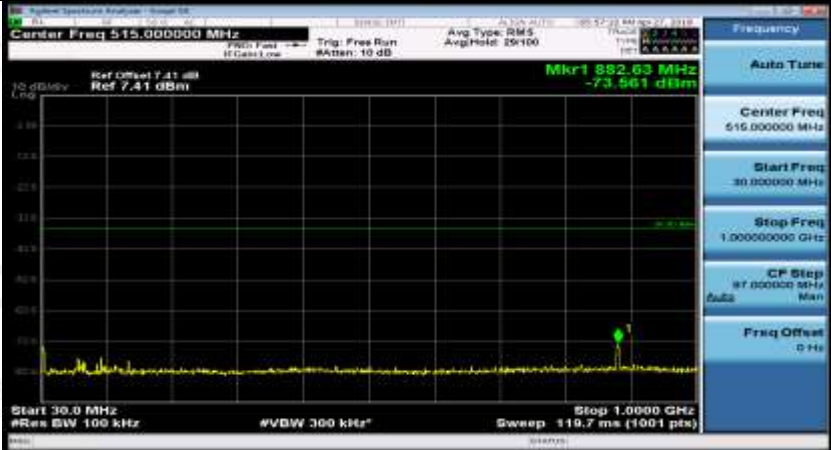
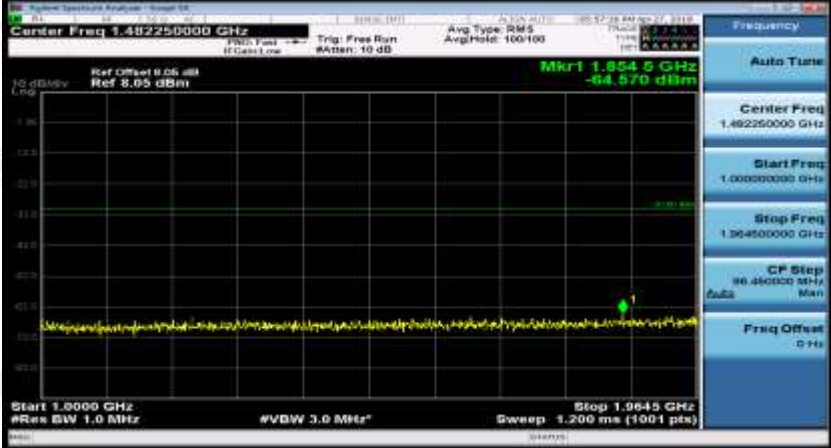
Co-existence			
Co-existence			
Co-existence			

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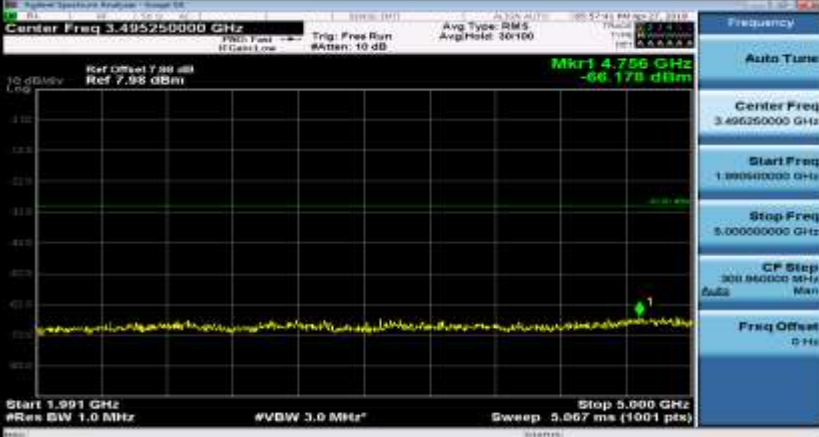


Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	

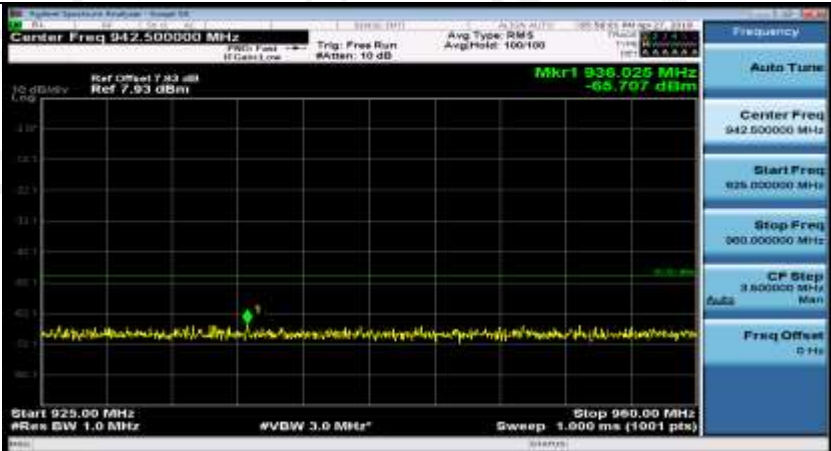
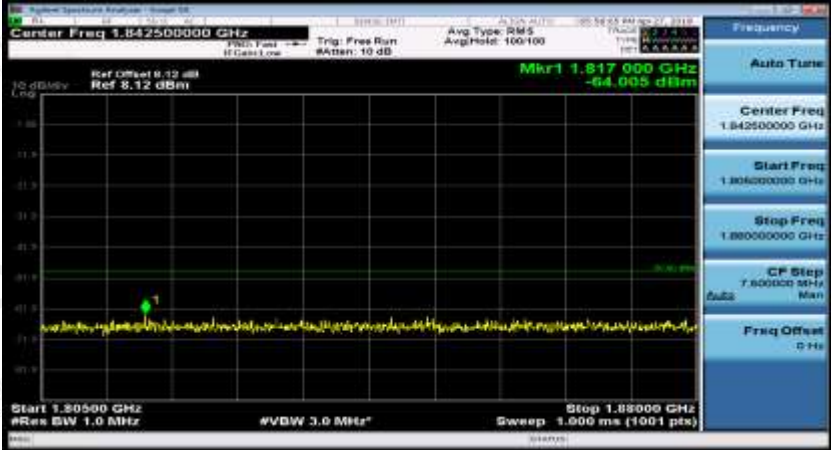
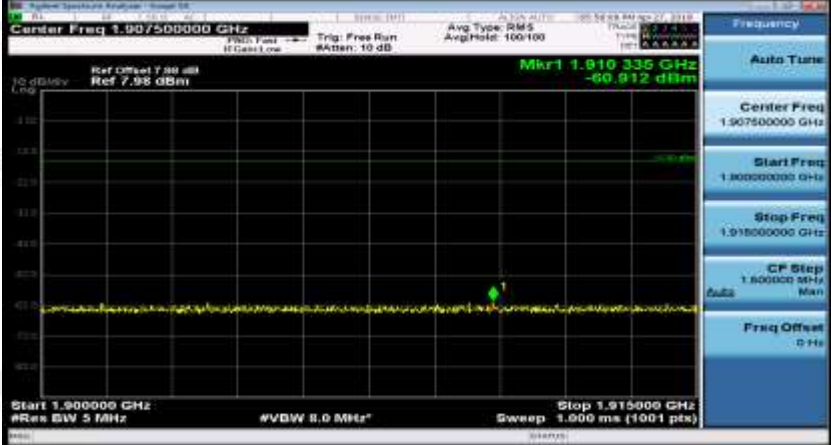
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General	
General	
General	

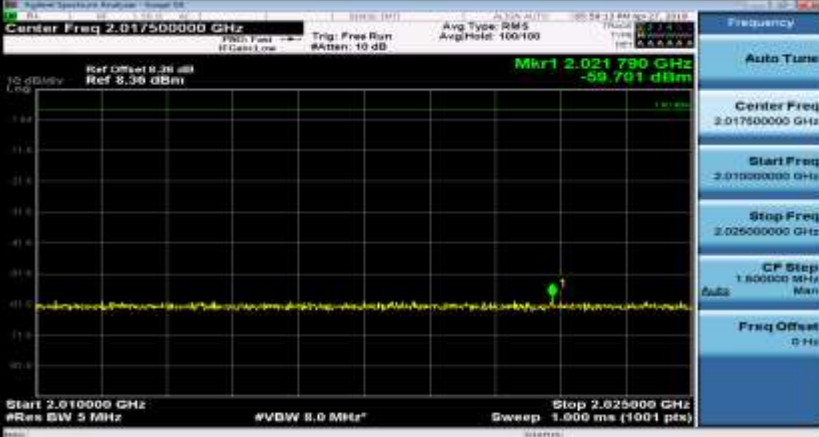
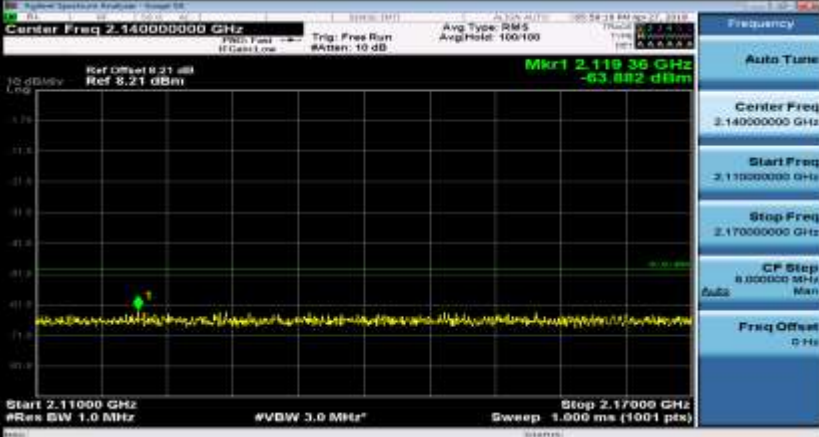

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General			
General			
Co-existence			

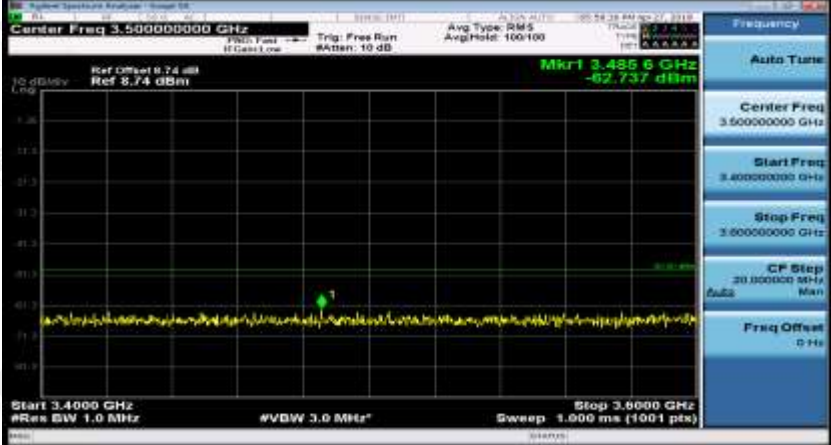
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Co-existence	
Co-existence	
Co-existence	

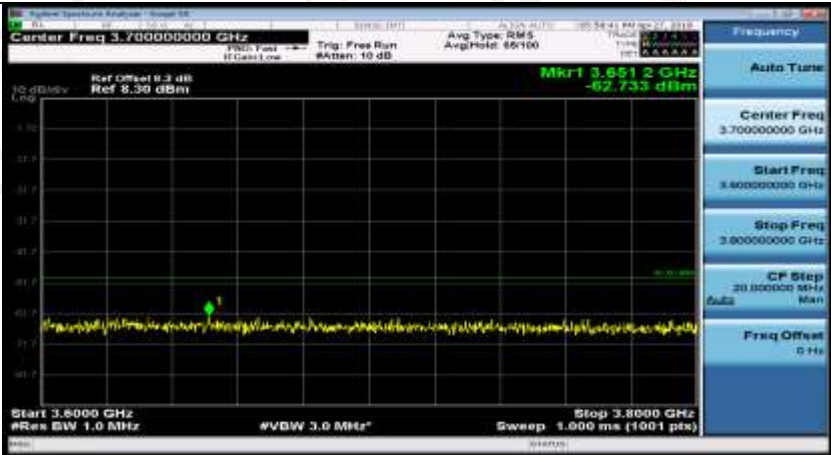
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Co-existence			
Co-existence			
Co-existence			

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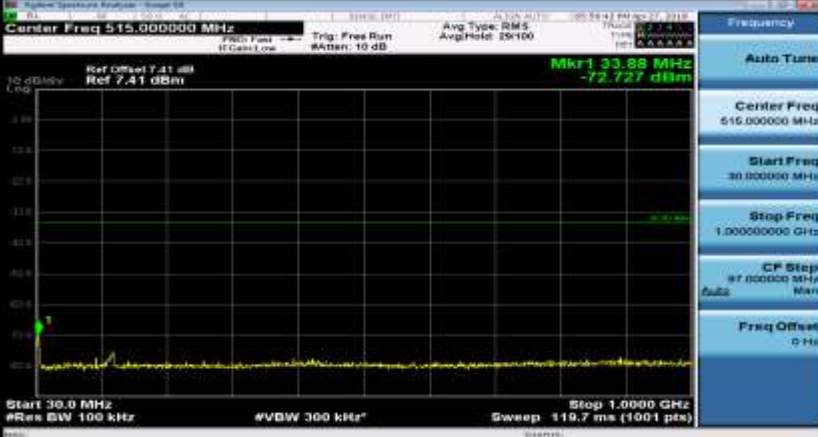
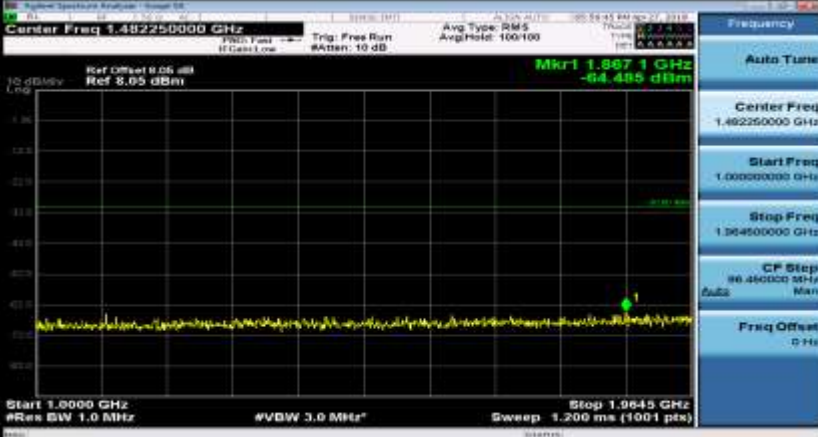
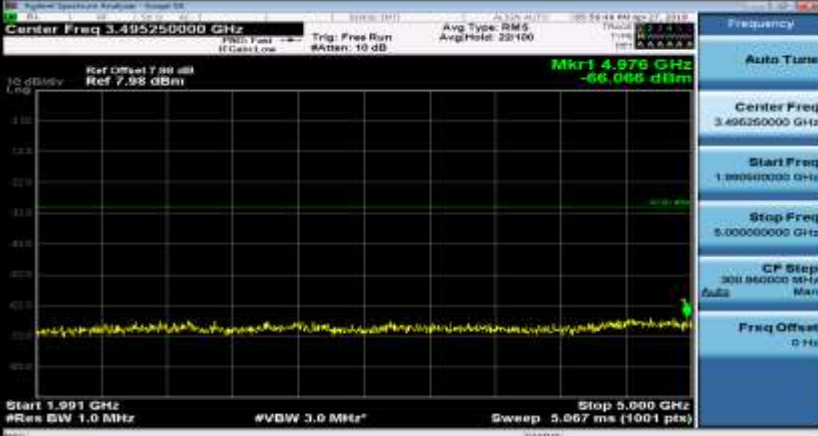
Co-existence	
Co-existence	
Co-existence	

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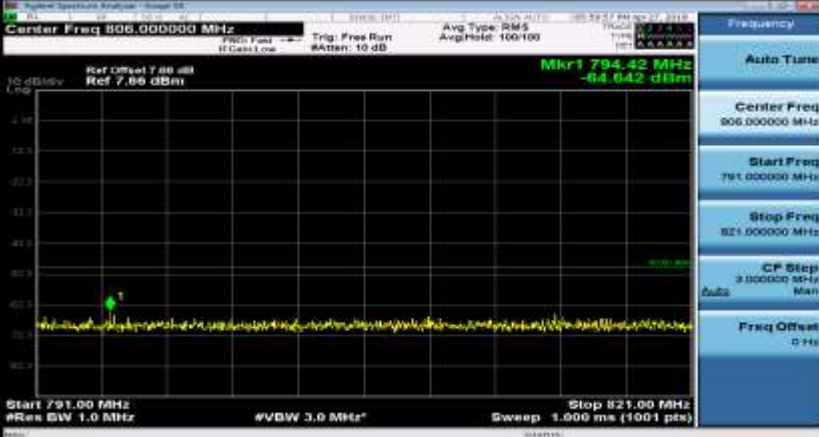
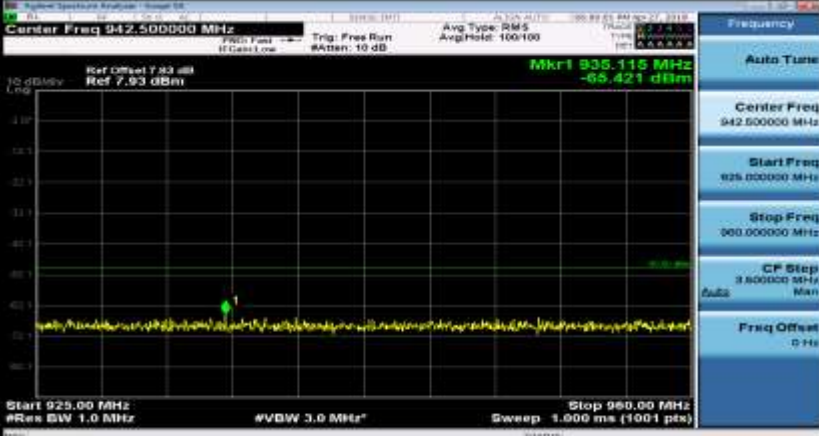
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
General	
General	

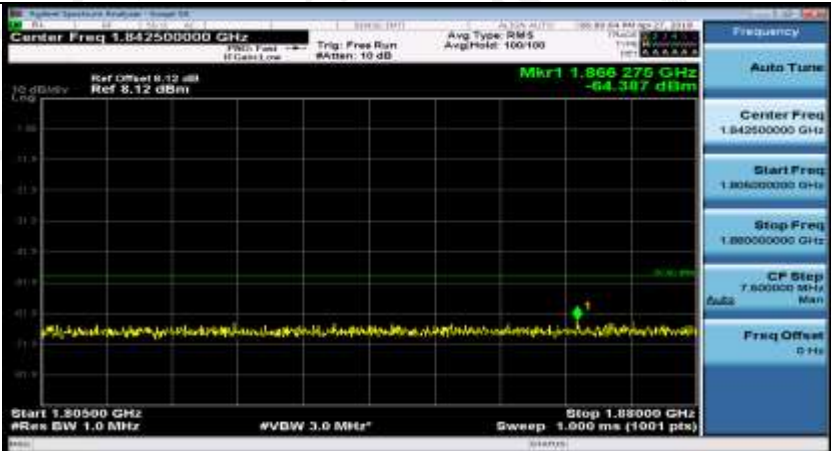
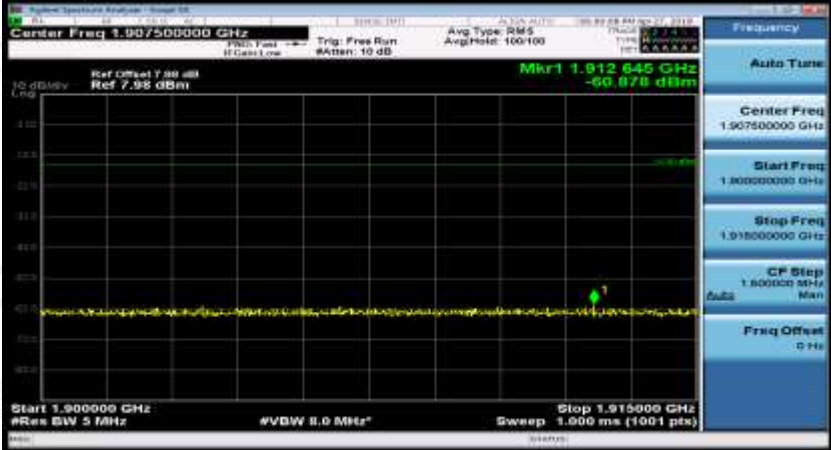
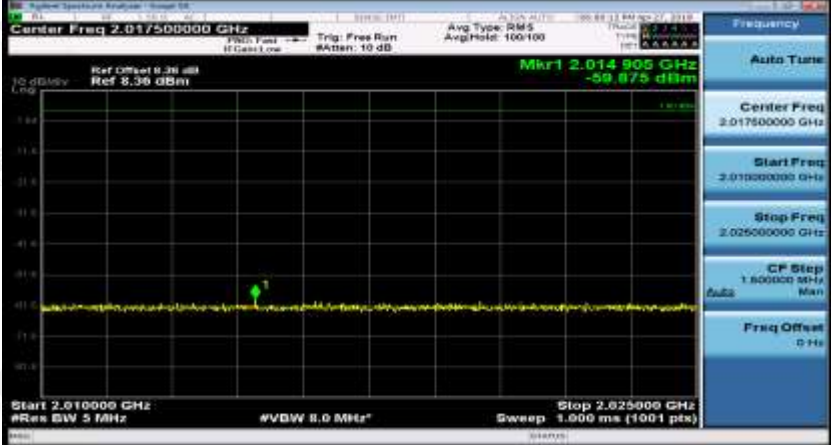
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General			
General			
General			

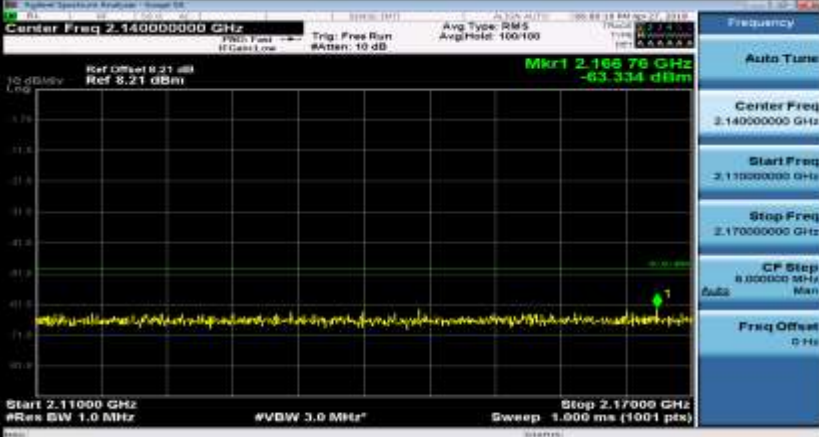
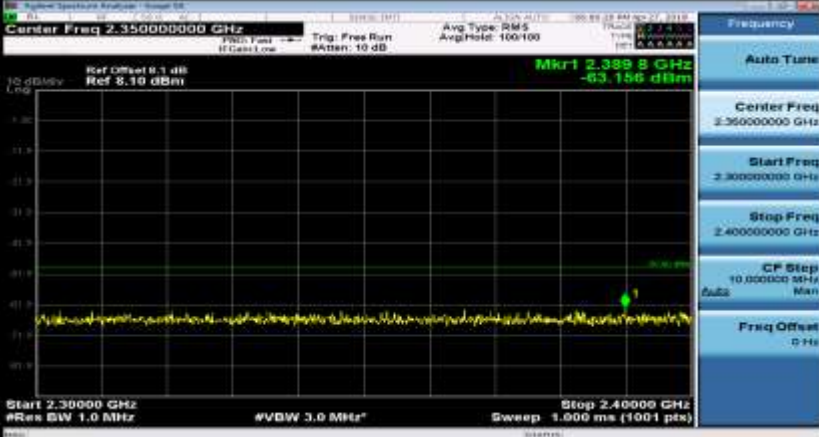
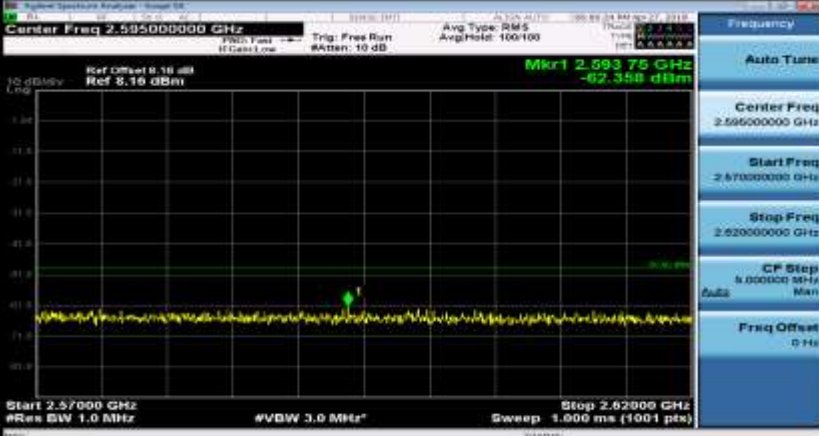
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General			
Co-existence			
Co-existence			

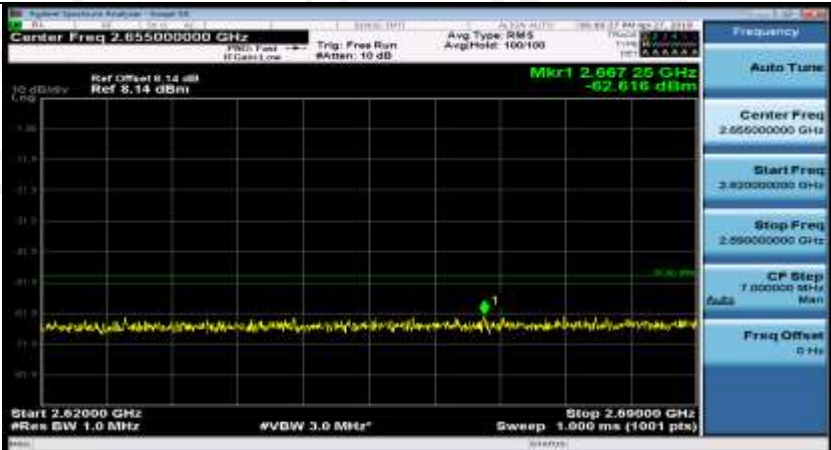
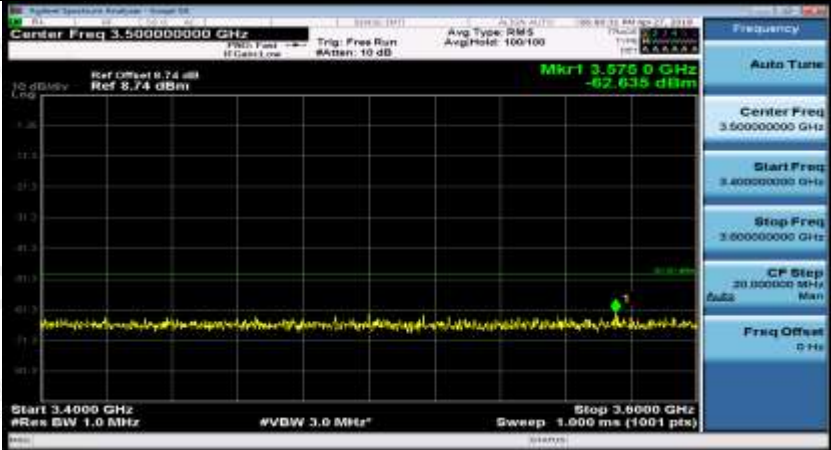
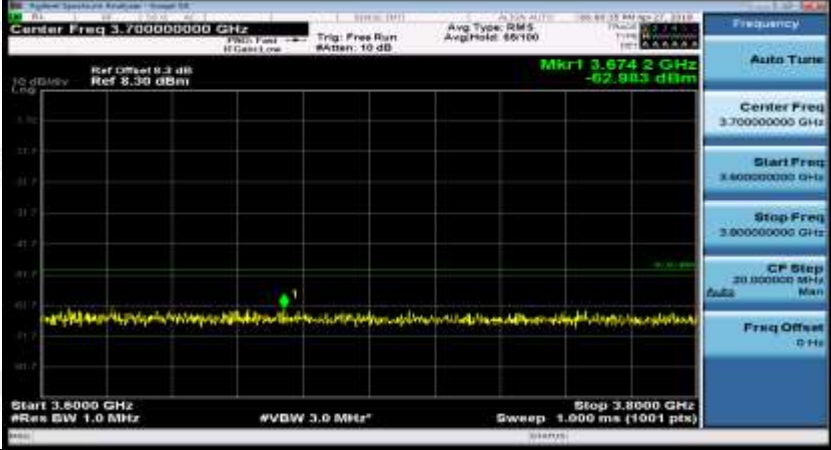
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

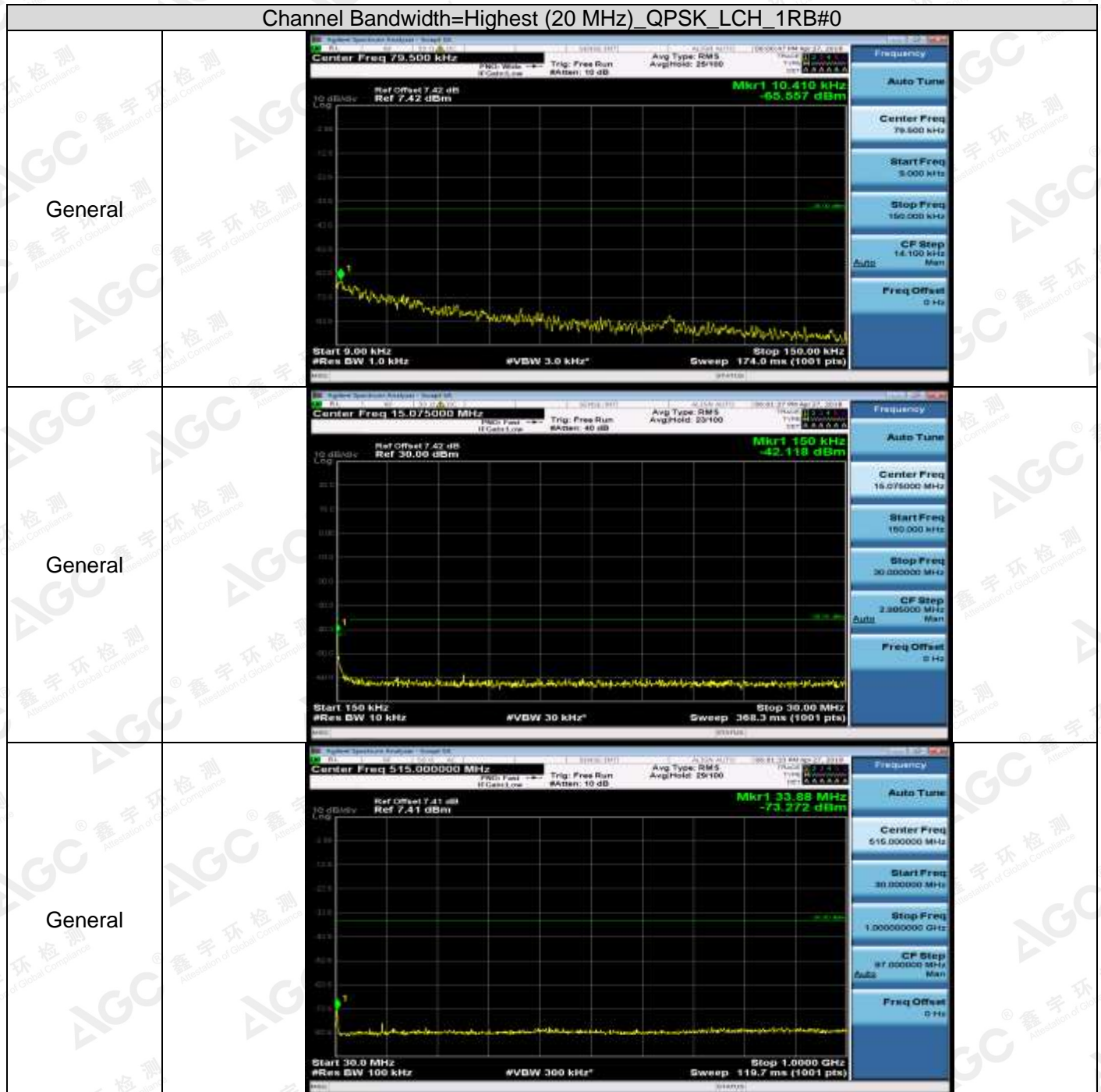
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	
Additional	NA

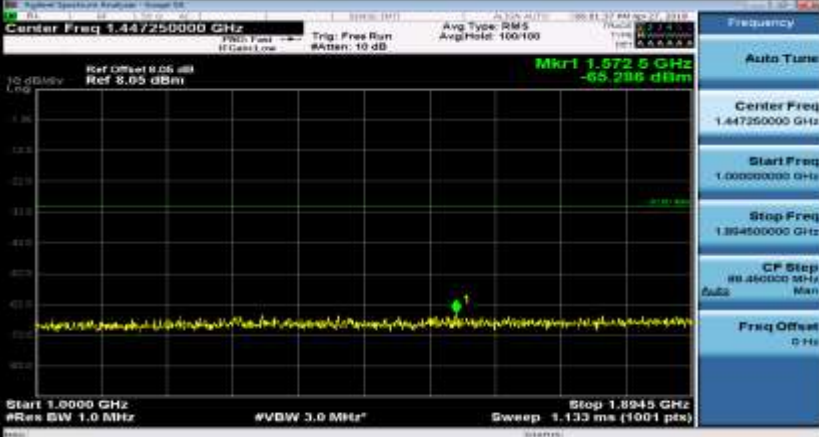

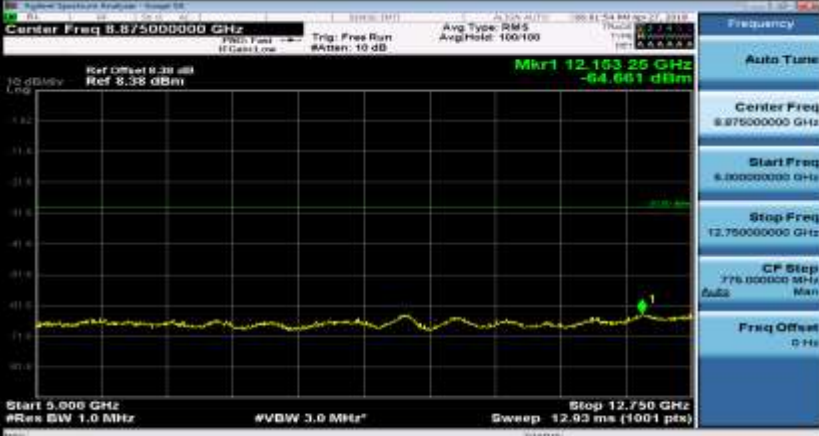
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Channel Bandwidth= (20 MHz)

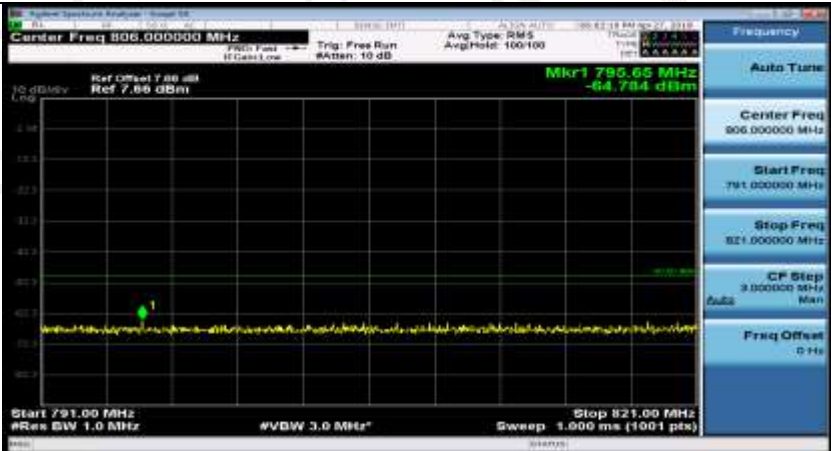
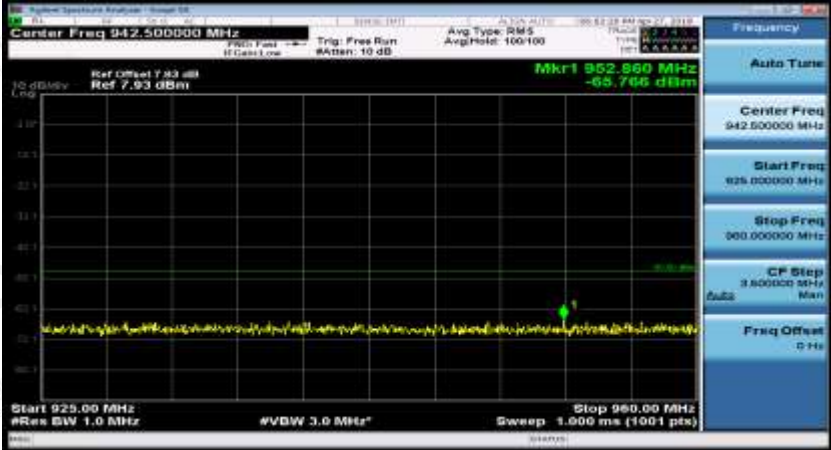
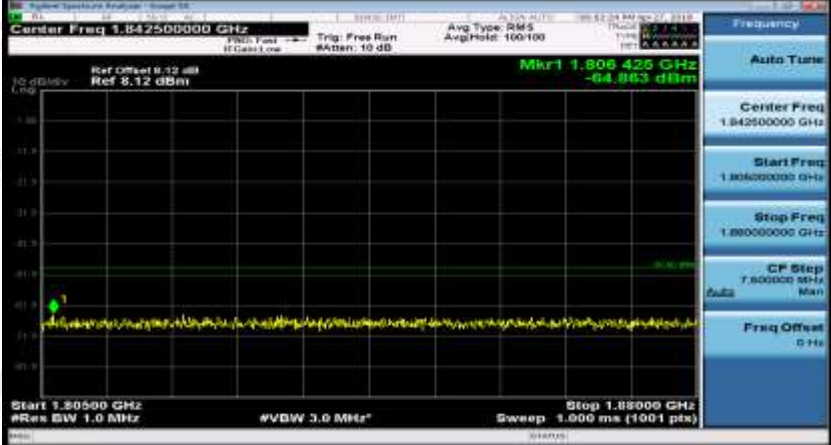
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0



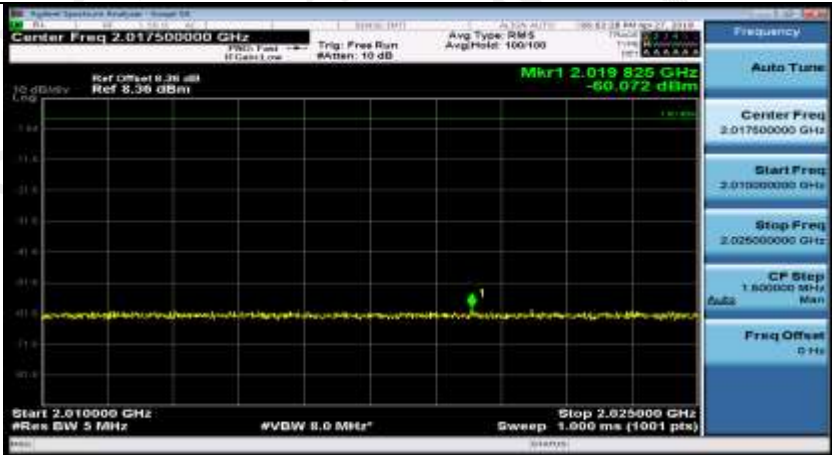

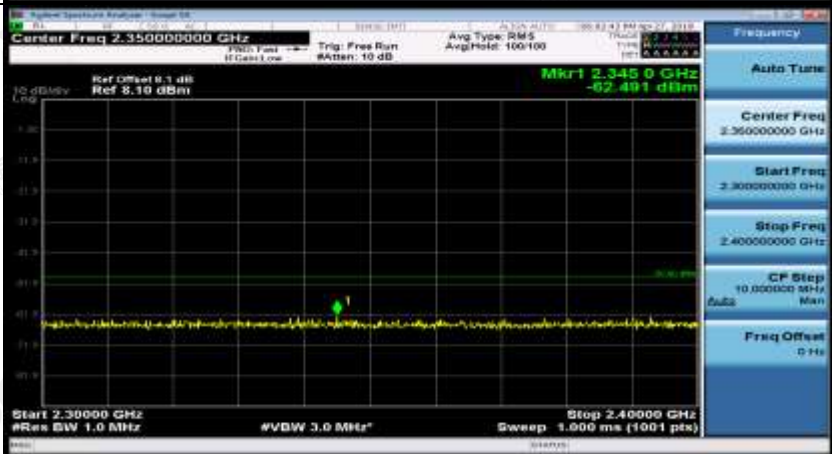
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General			
General			
General			

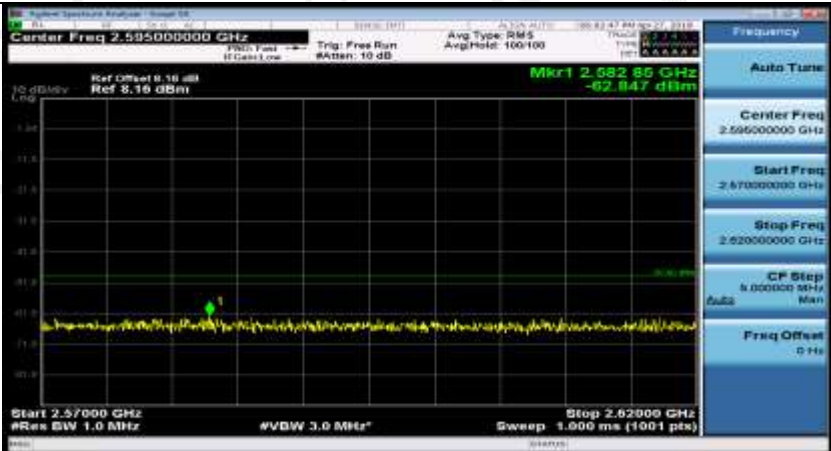
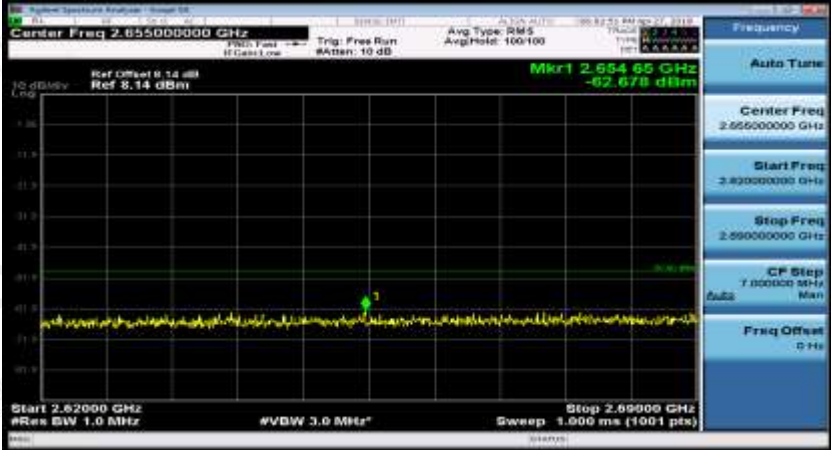
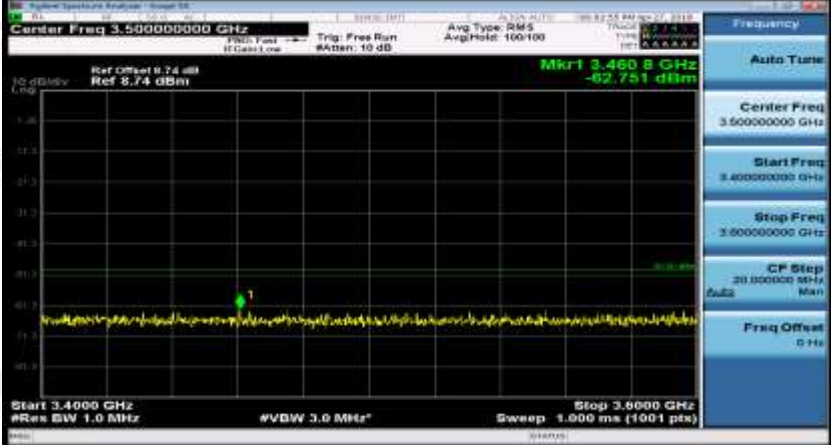
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Co-existence	
Co-existence	
Co-existence	

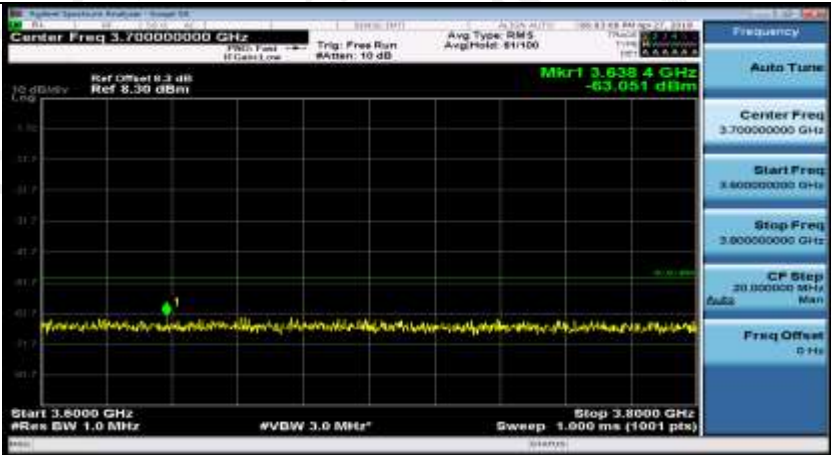
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence			
Co-existence			
Co-existence			

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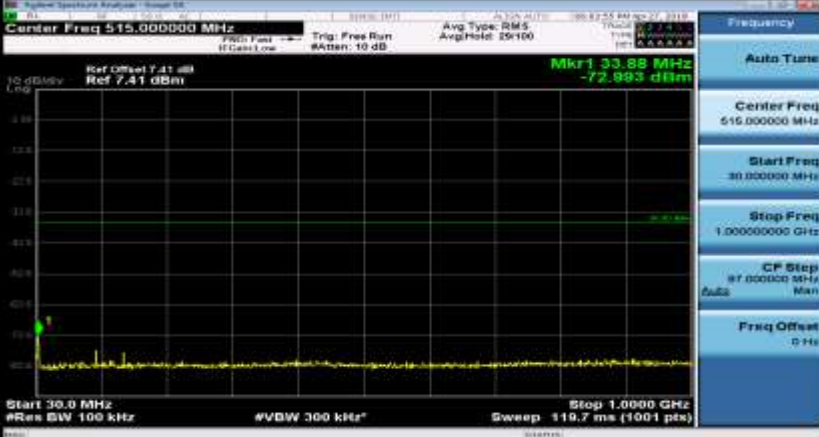
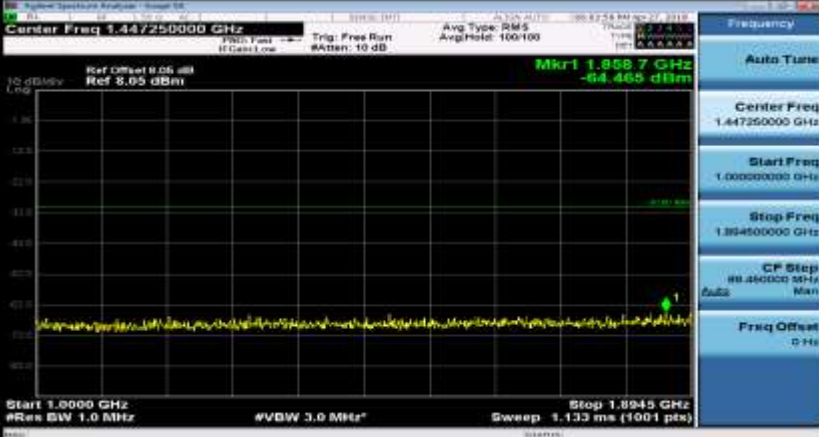
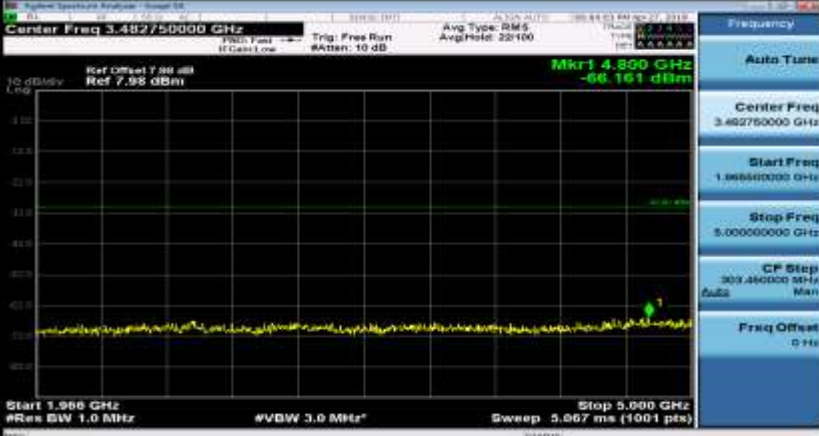
Co-existence	
Co-existence	
Co-existence	

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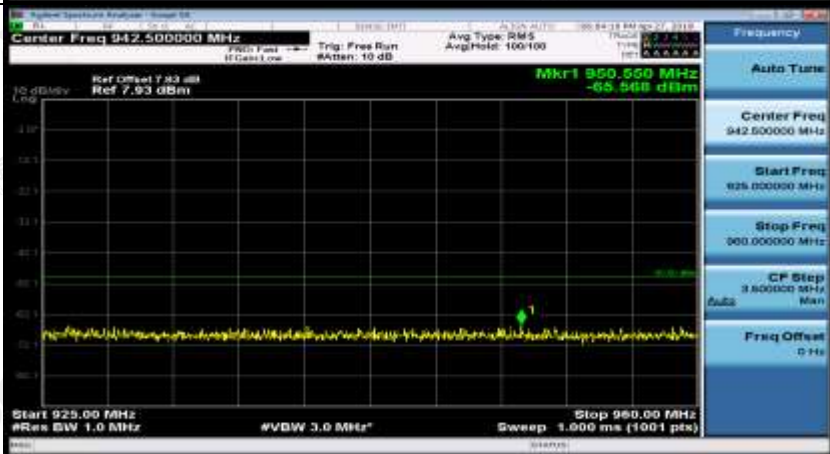
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	
General	

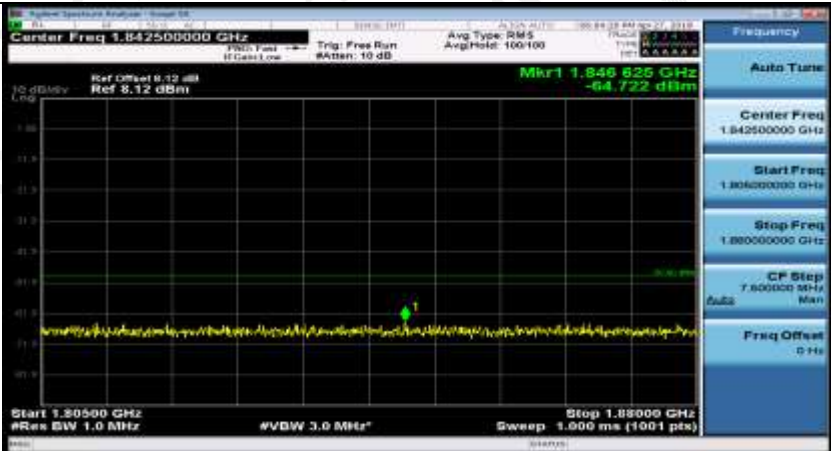

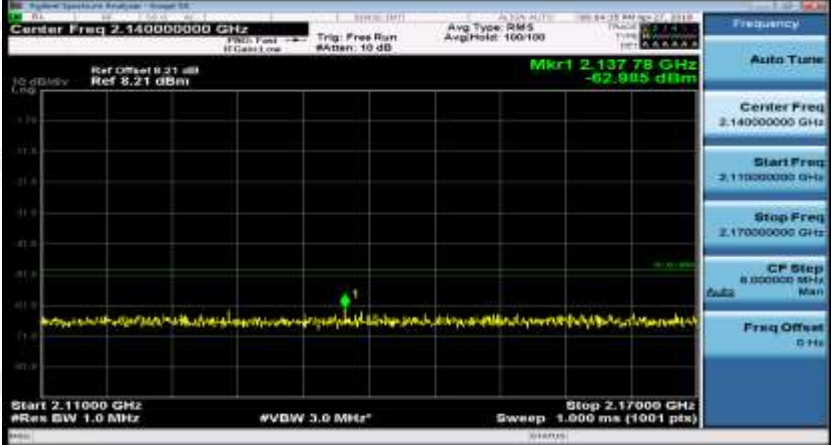
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General			
General			
General			


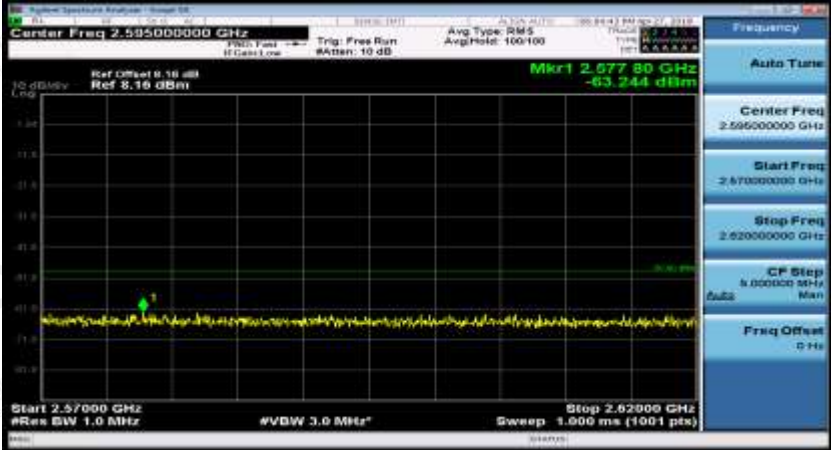
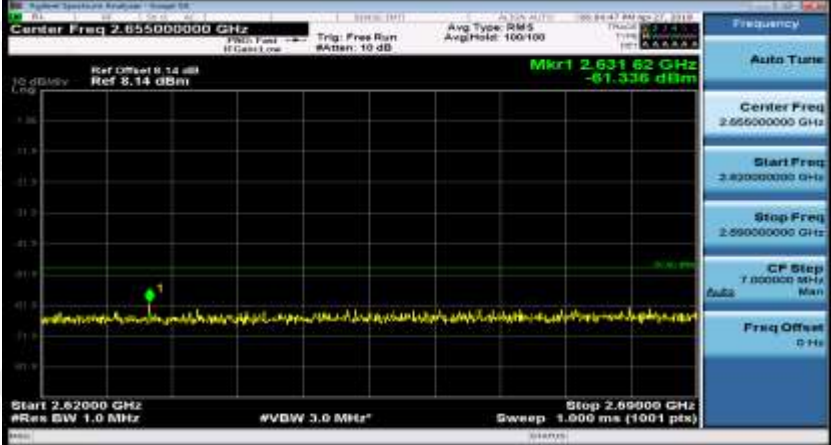
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General			
Co-existence			
Co-existence			

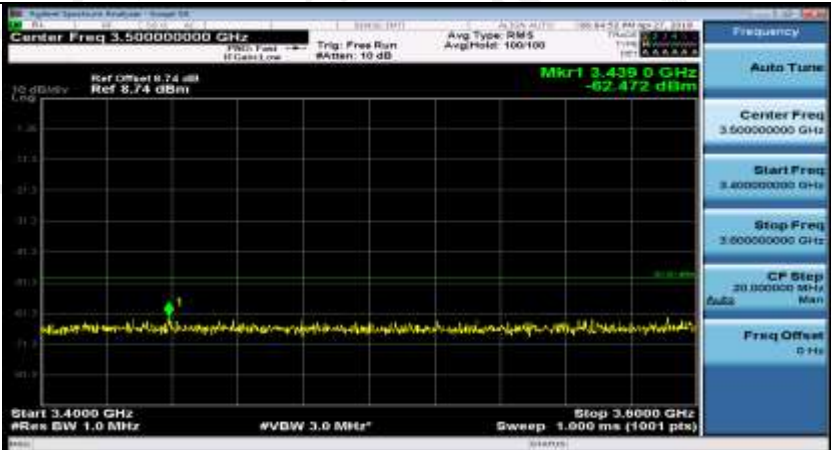
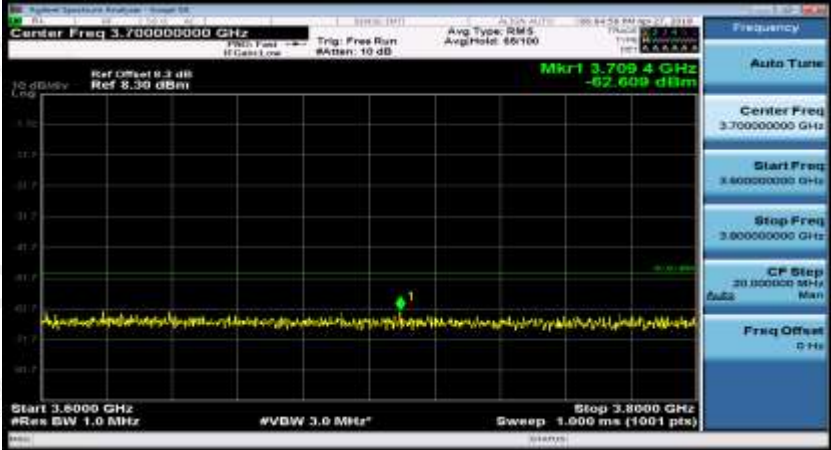
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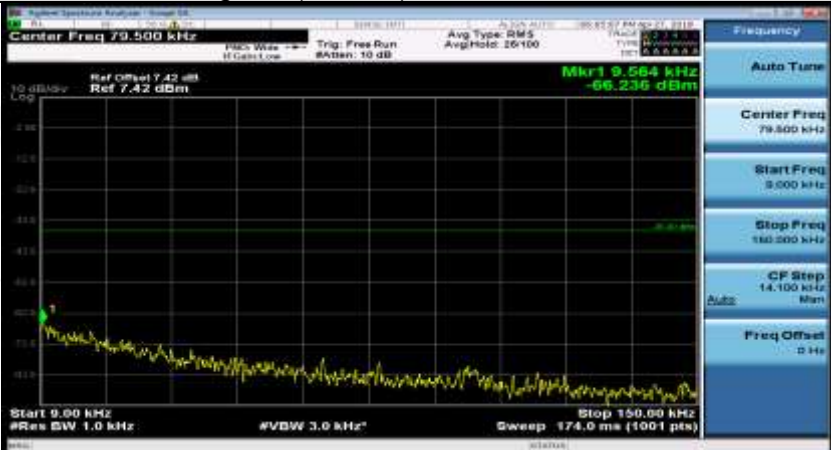
Co-existence	
Co-existence	
Co-existence	

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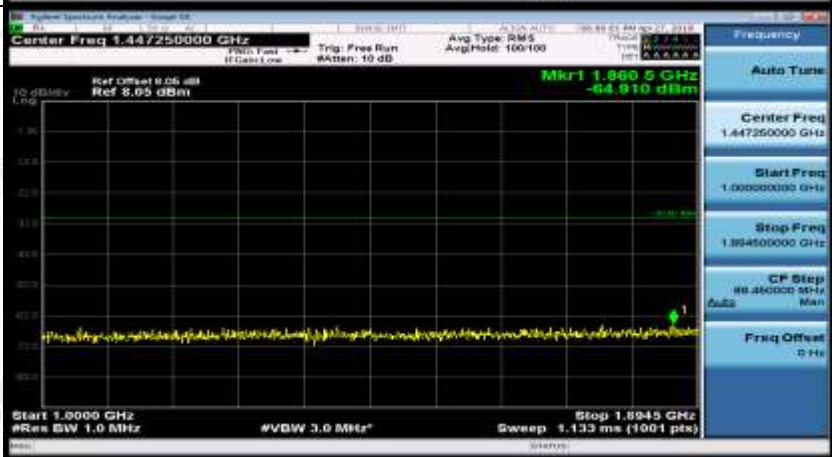
Co-existence		
Co-existence		
Co-existence		

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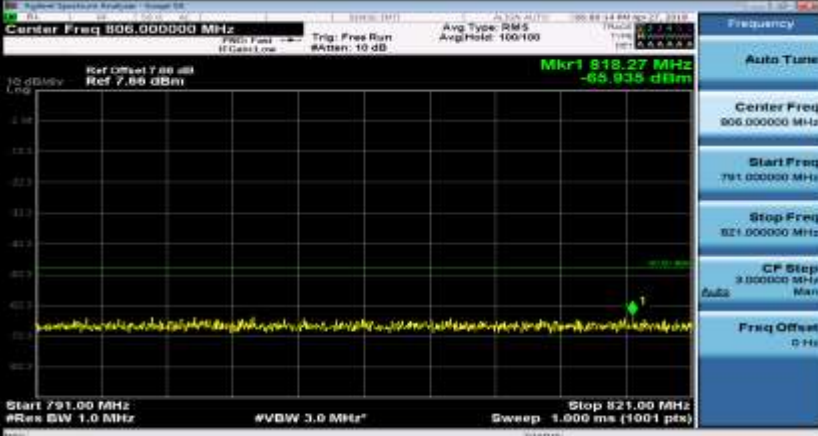
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

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General			
General			
General			

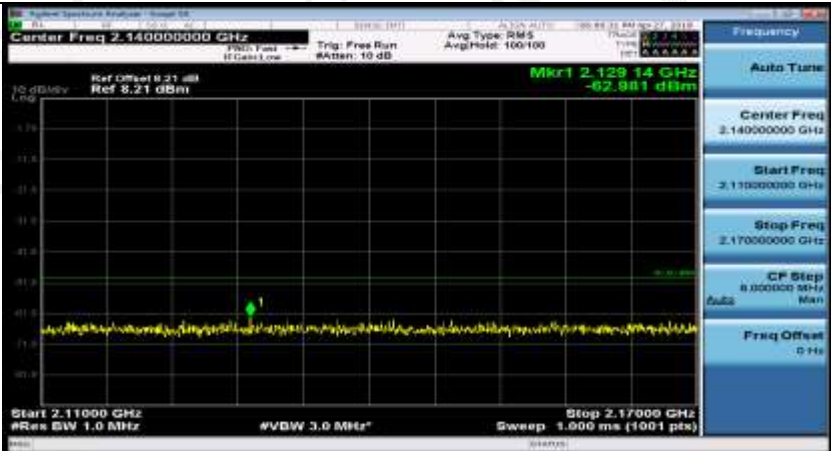
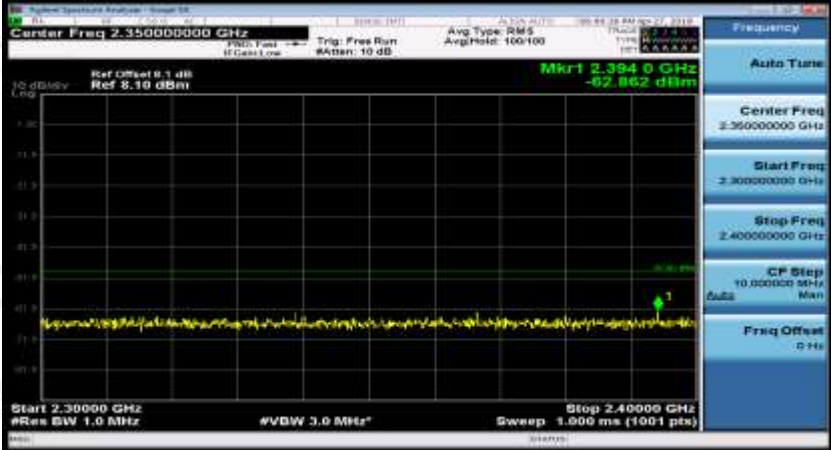
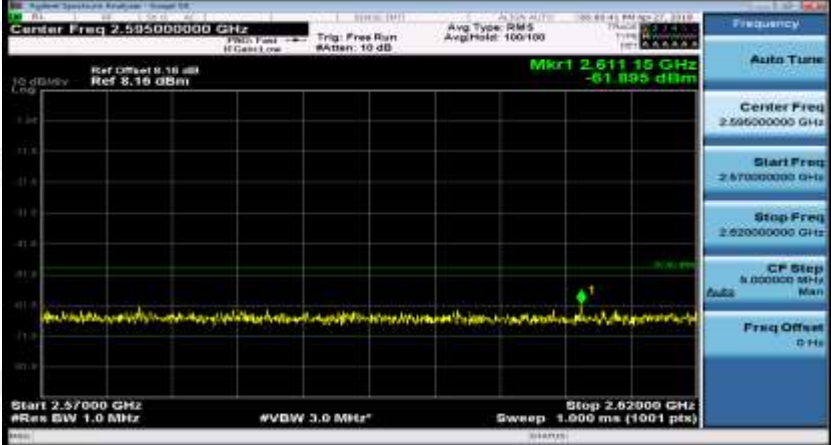
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General			
General			
Co-existence			

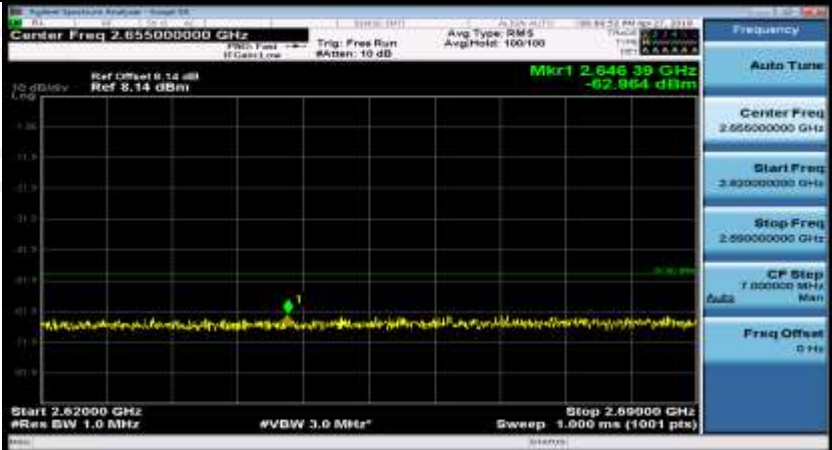
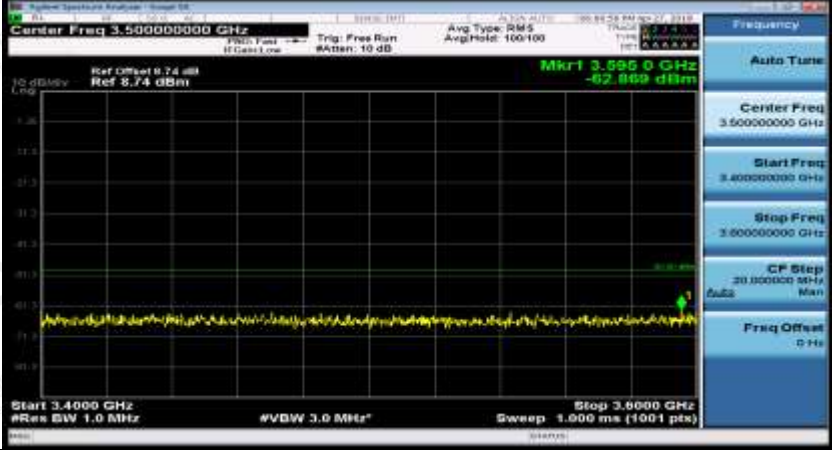
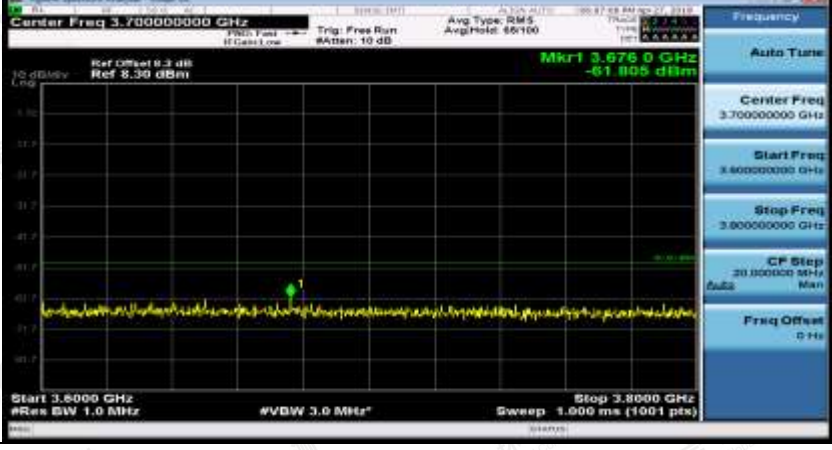
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Co-existence			
Co-existence			
Co-existence			

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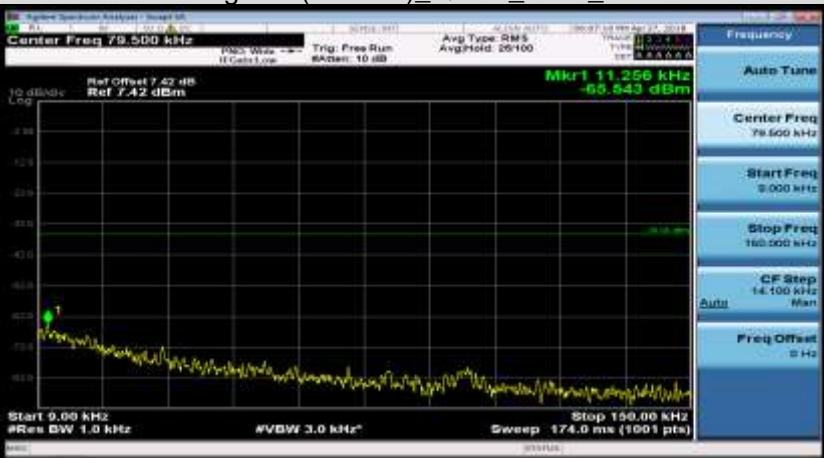
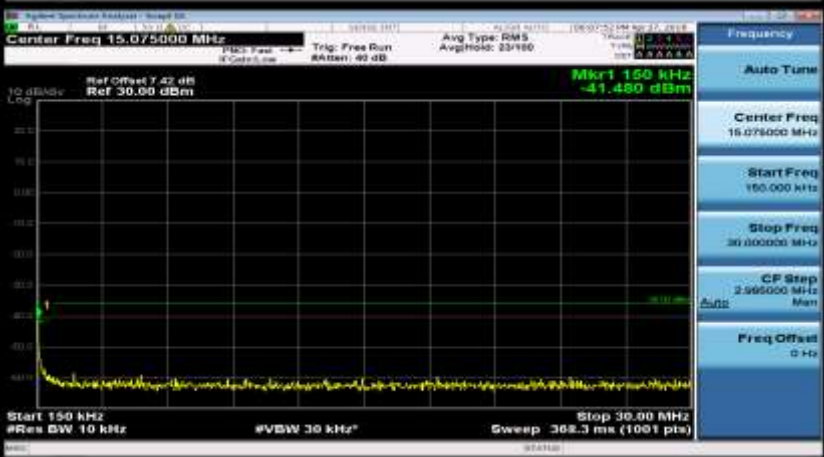

Co-existence	
Co-existence	
Co-existence	

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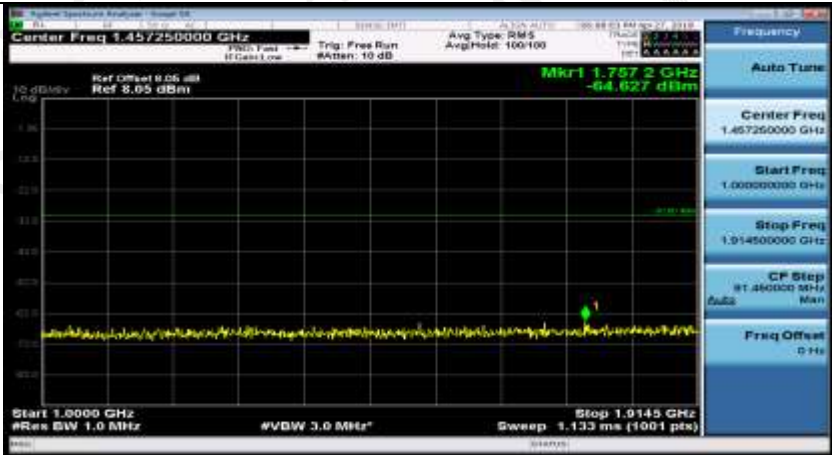

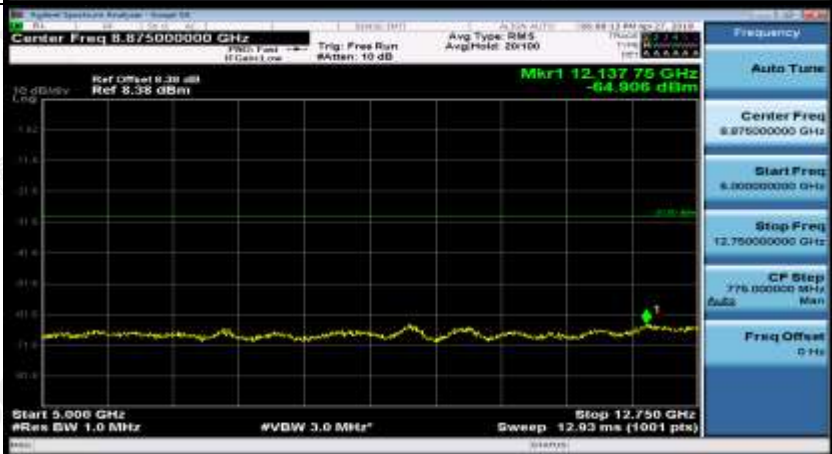
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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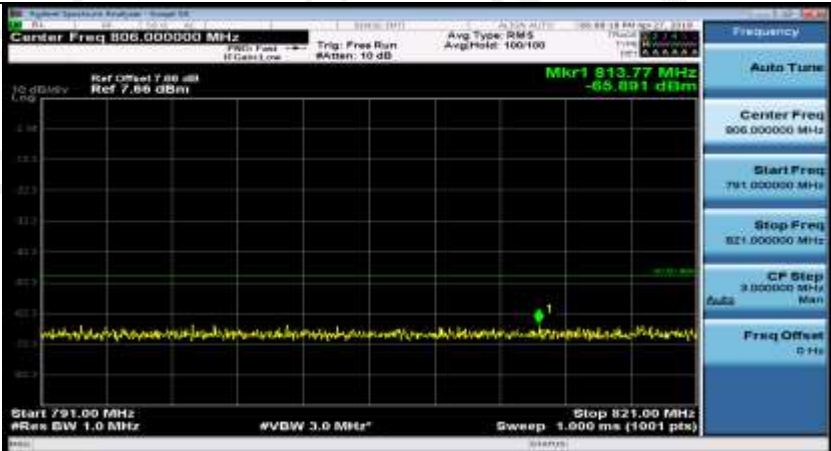
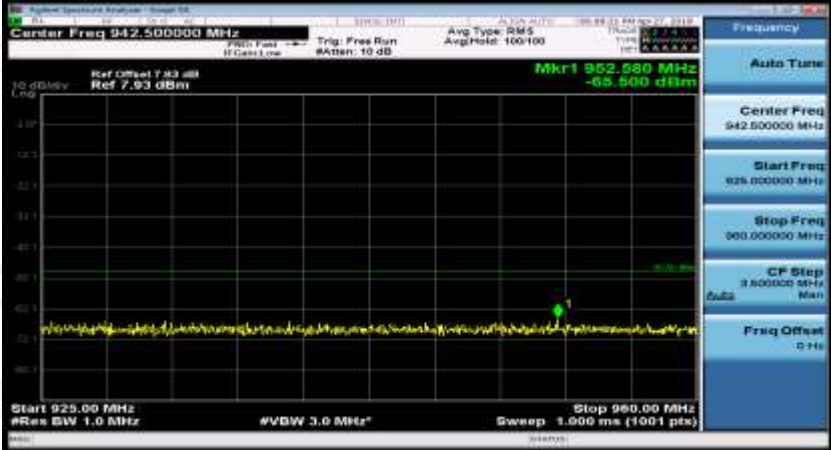
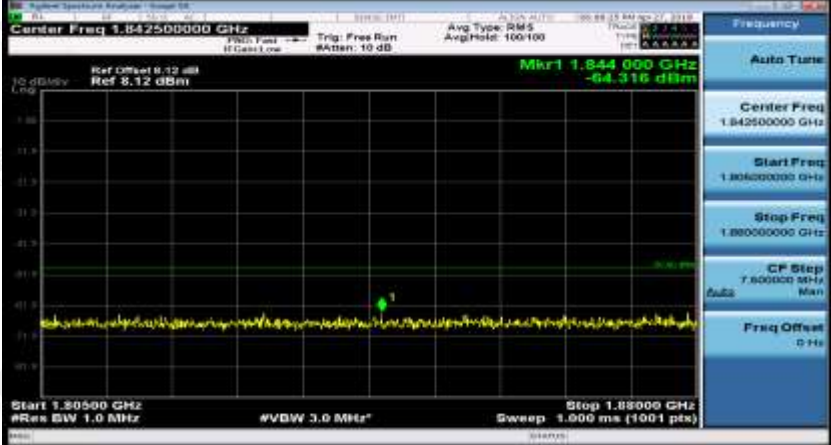
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General		
General		
General		

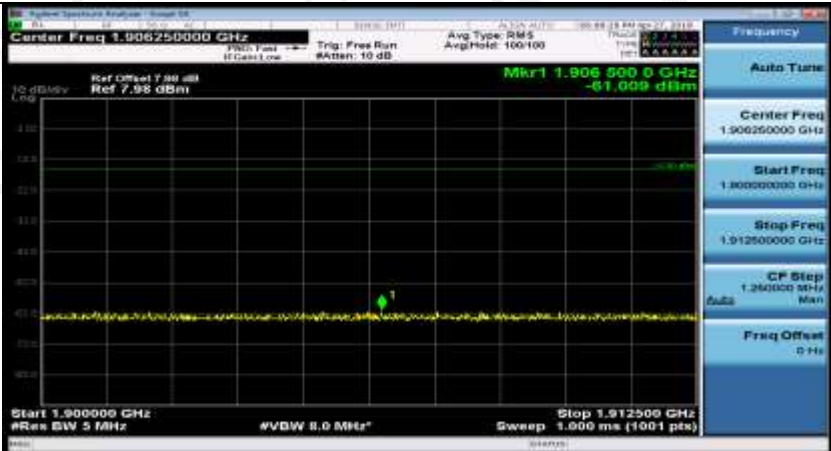
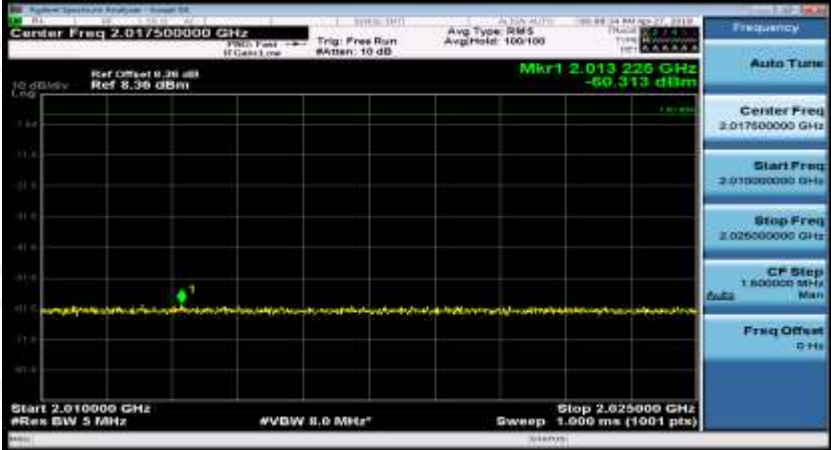
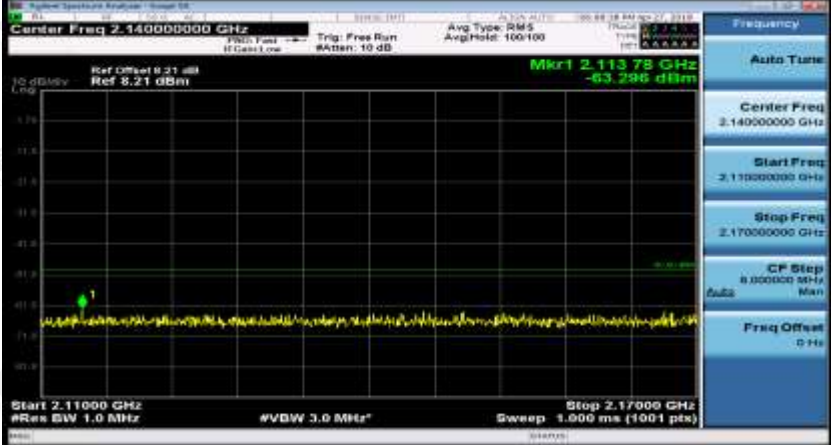
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General		 <p>Center Freq 1.457250000 GHz Ref Offset 0.05 dBm Ref 8.05 dBm Mkr1 1.7572 GHz -64.627 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.133 ms (1001 pts)</p>	
General		 <p>Center Freq 3.492750000 GHz Ref Offset 0.80 dBm Ref 7.98 dBm Mkr1 4.876 GHz -65.316 dBm Start 1.986 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.067 ms (1001 pts)</p>	
General		 <p>Center Freq 8.875000000 GHz Ref Offset 0.38 dBm Ref 8.38 dBm Mkr1 12.13775 GHz -64.906 dBm Start 5.006 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 12.93 ms (1001 pts)</p>	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

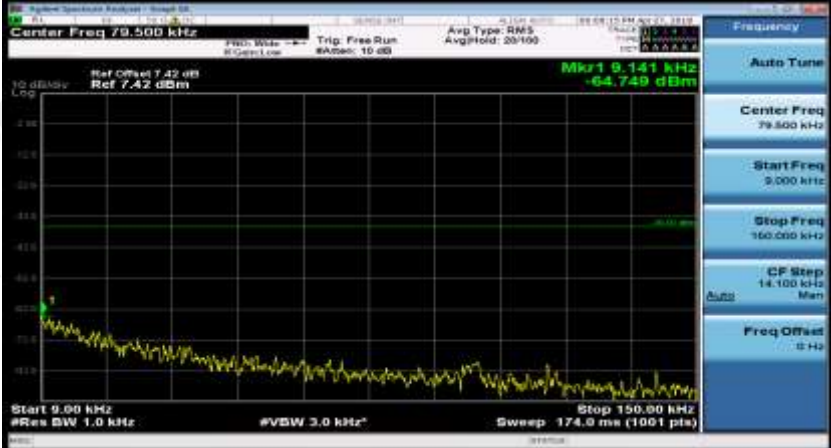
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Co-existence	
Co-existence	
Co-existence	


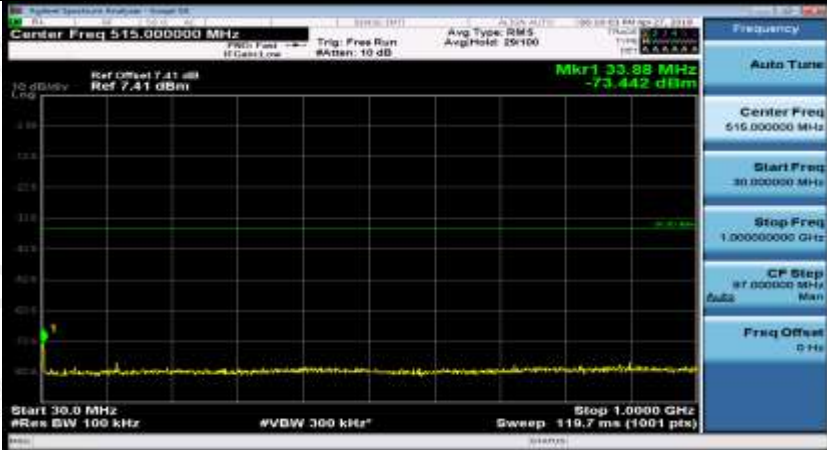
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Additional	NA

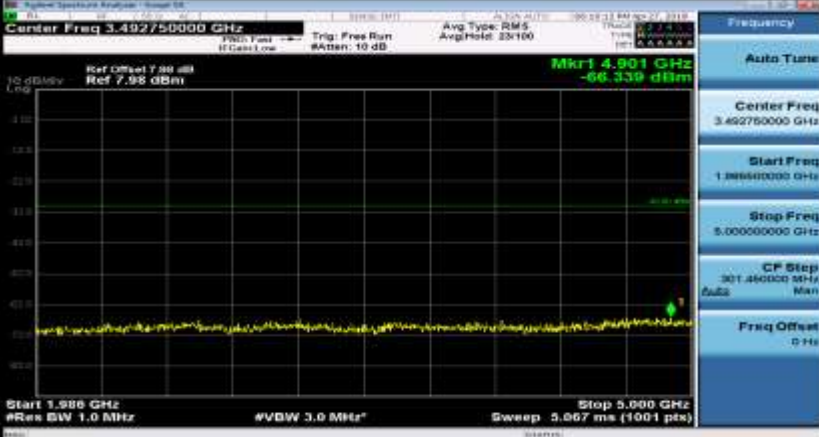

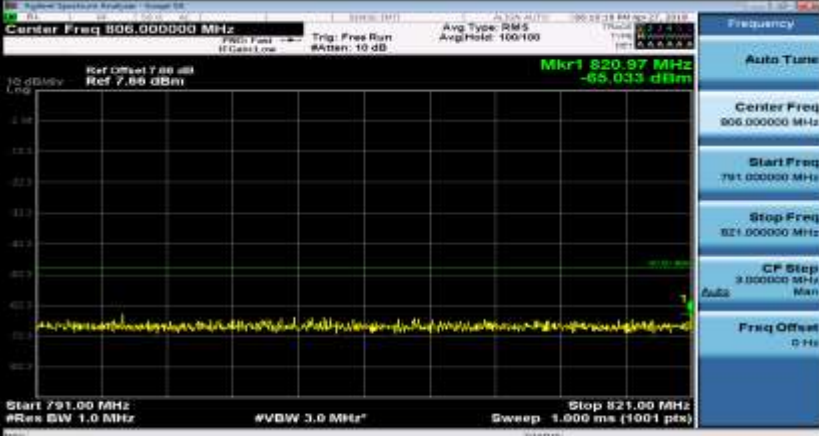
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max

General	
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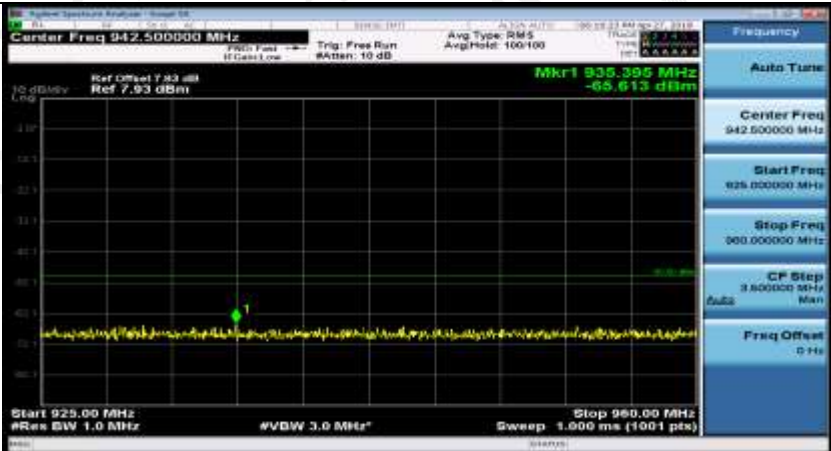
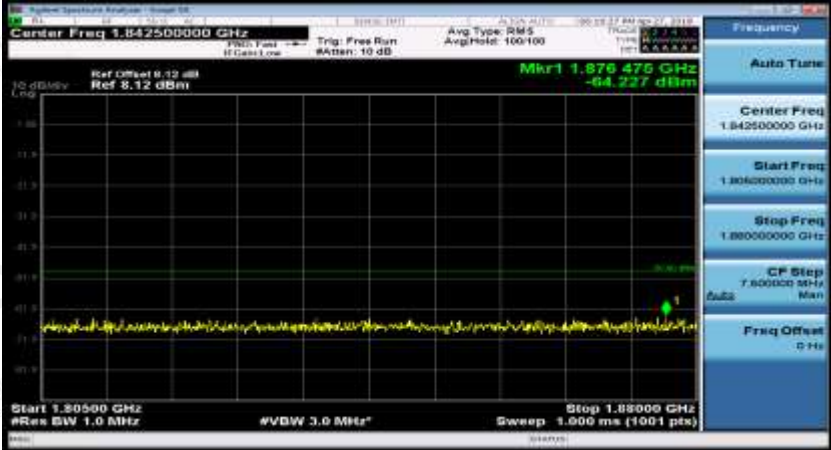
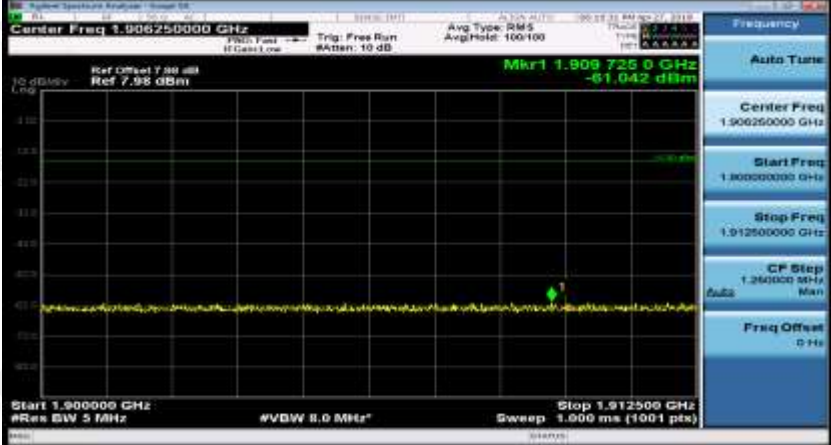
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General	
General	
General	

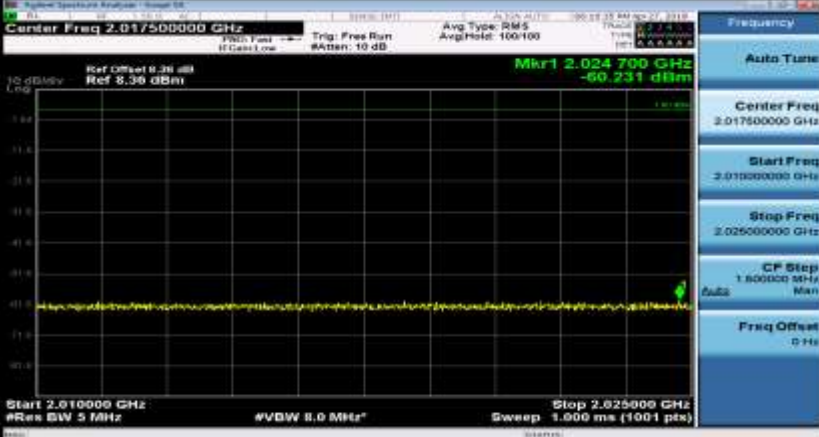
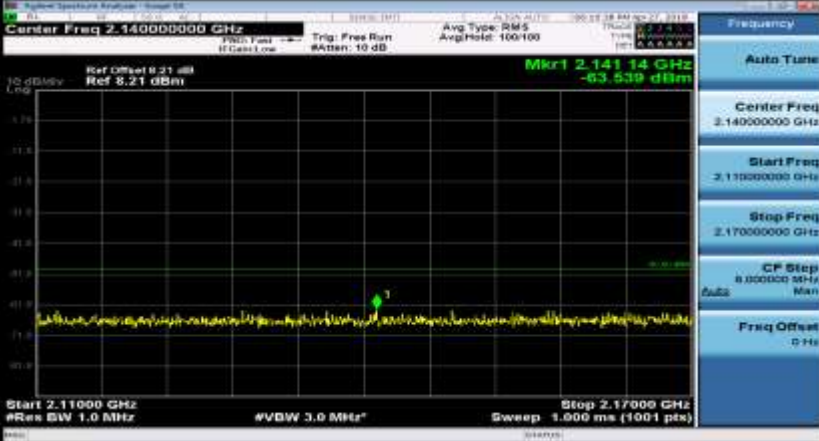
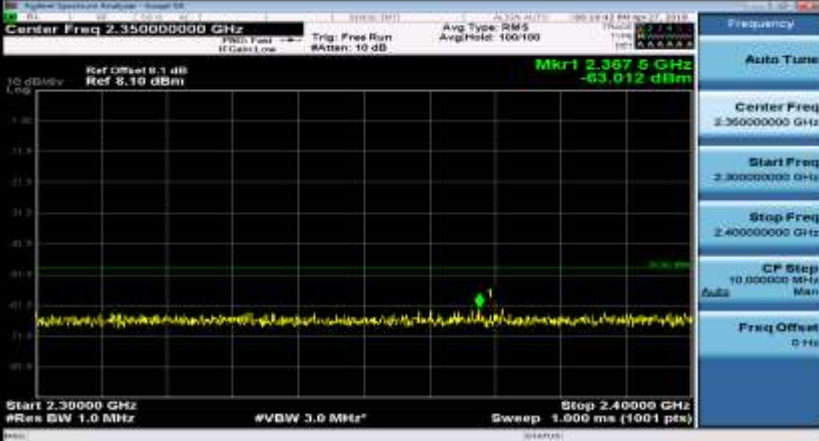
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General			
General			
Co-existence			

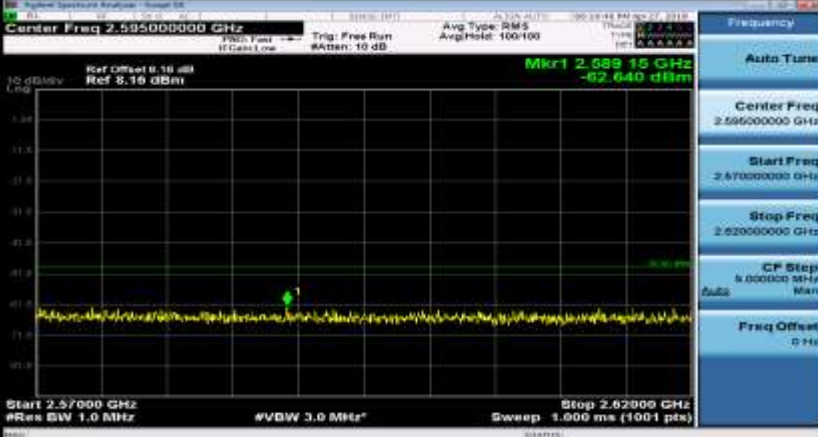
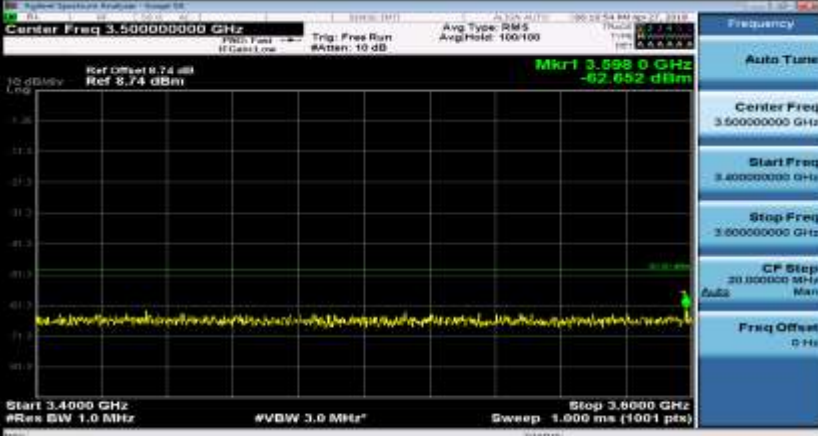
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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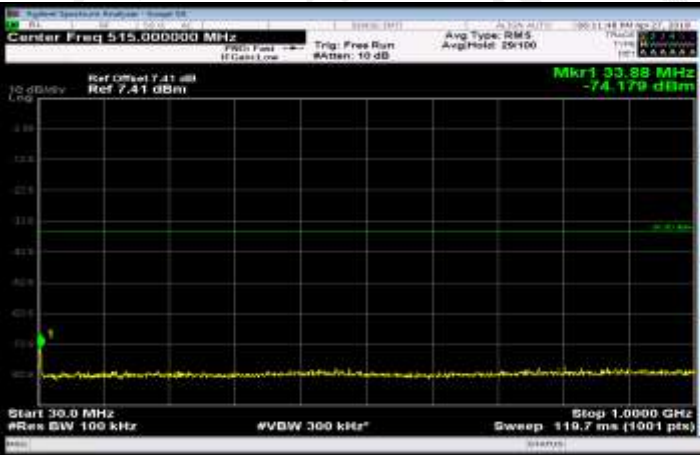
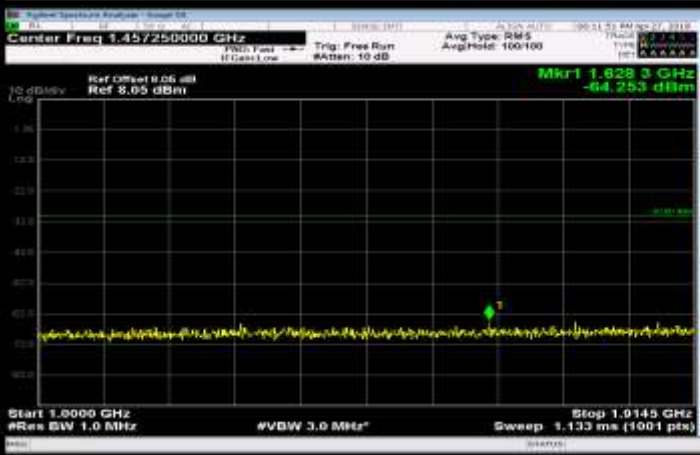
Co-existence			
Co-existence			
Co-existence			

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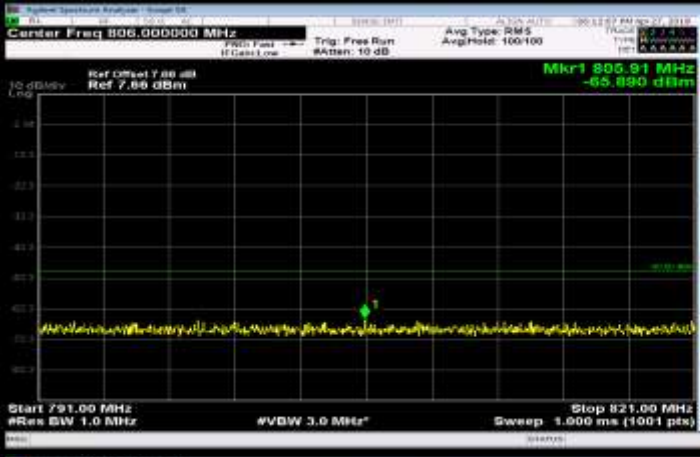
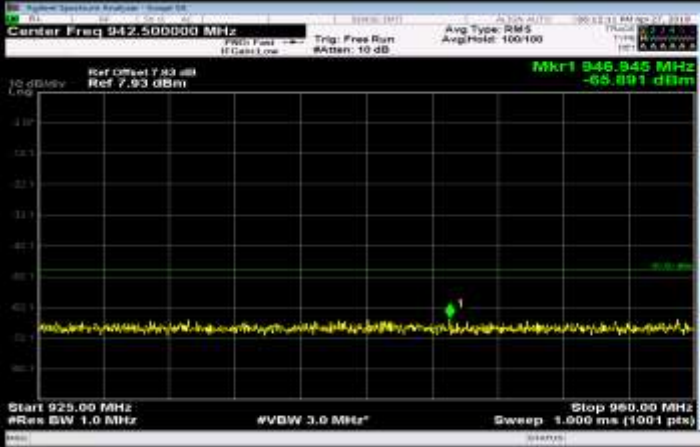
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullRB#0	
General	
General	

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General		
General		
General		

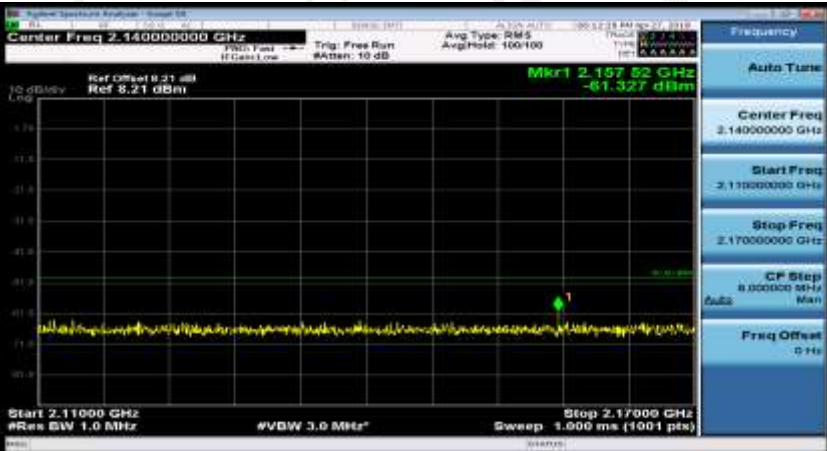
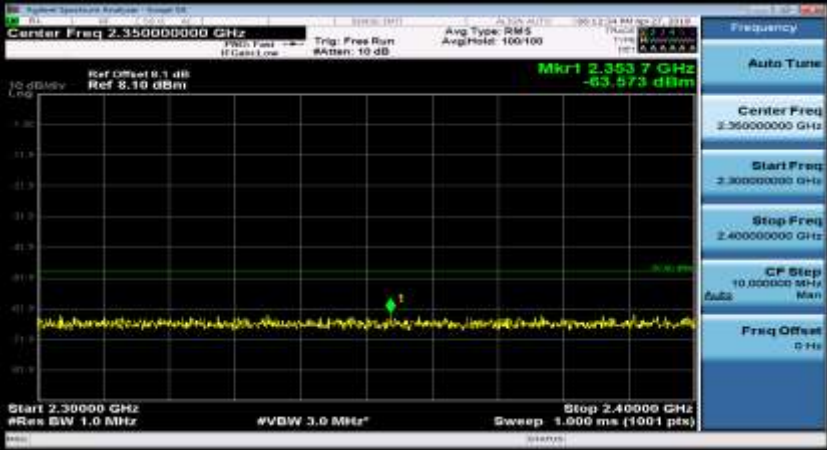
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General		
Co-existence		
Co-existence		

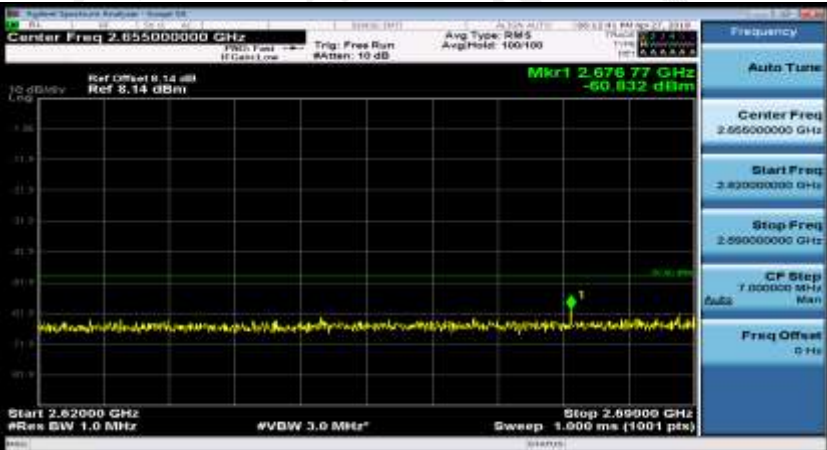
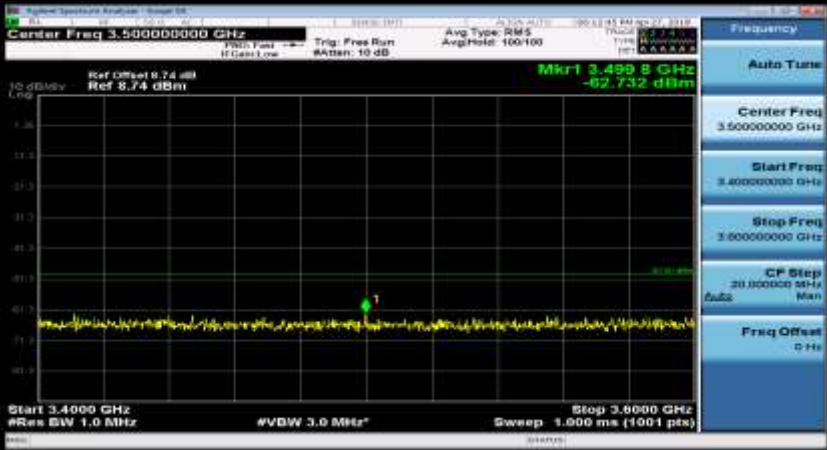
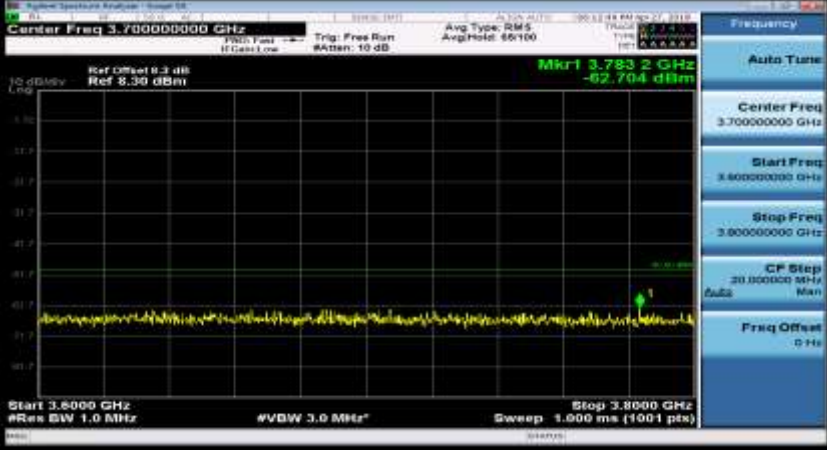
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Co-existence	
Co-existence	
Co-existence	

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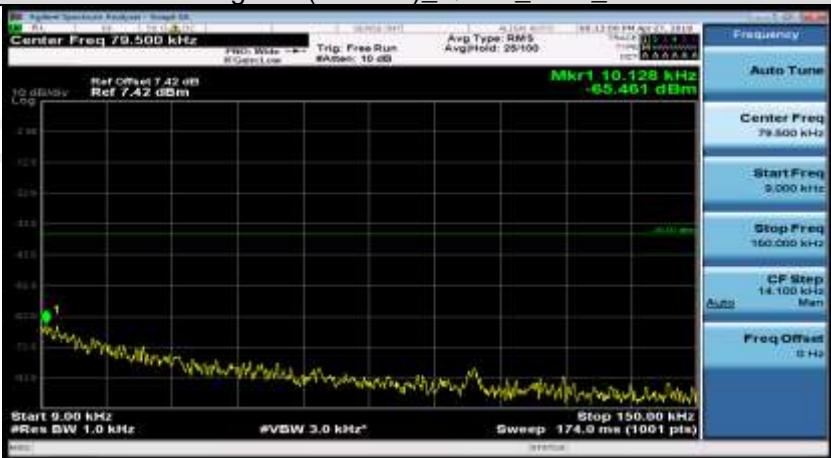


Co-existence	
Co-existence	
Co-existence	

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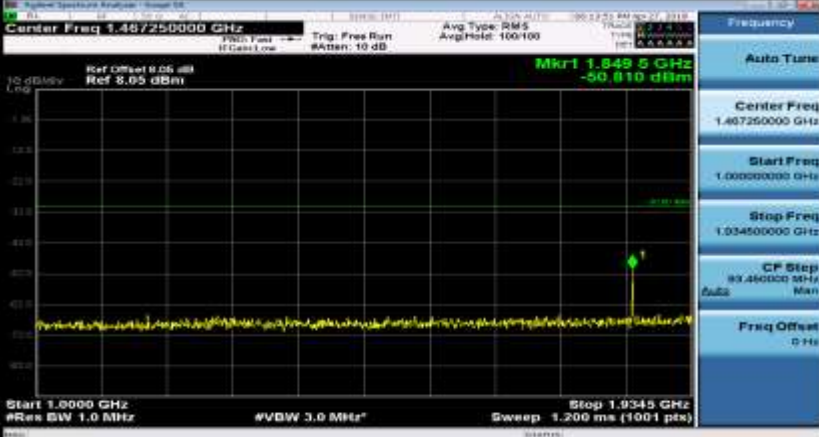


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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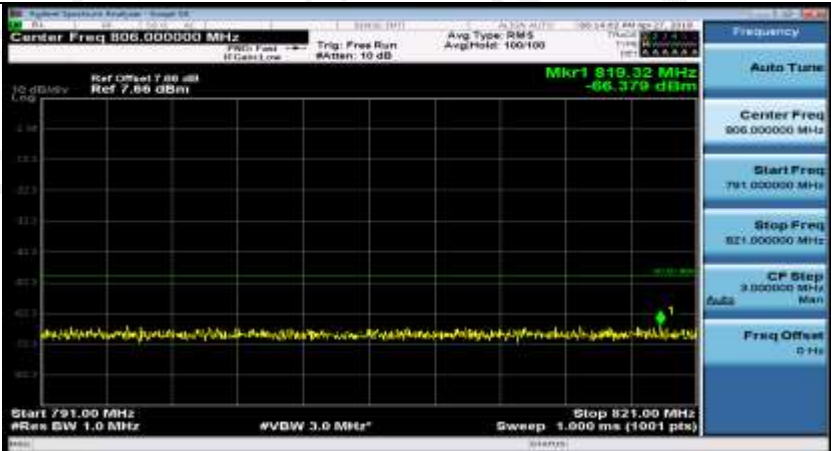
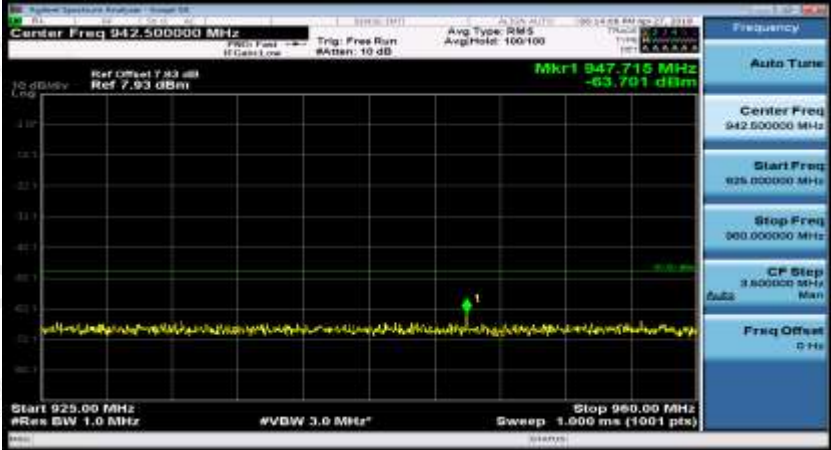
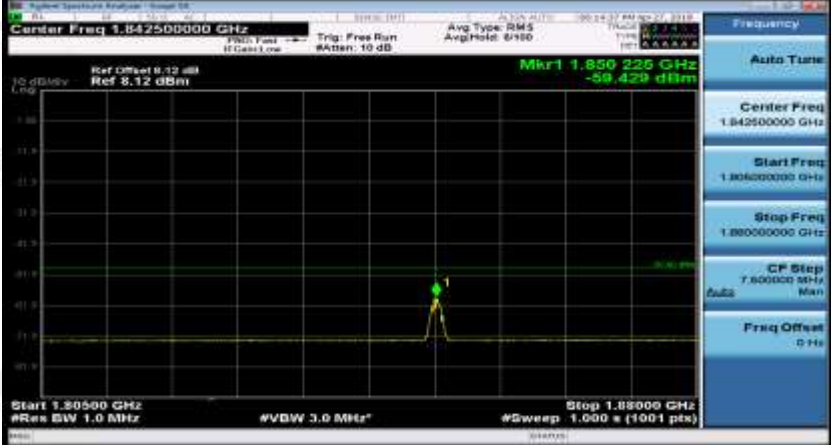
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General		
General		
General		

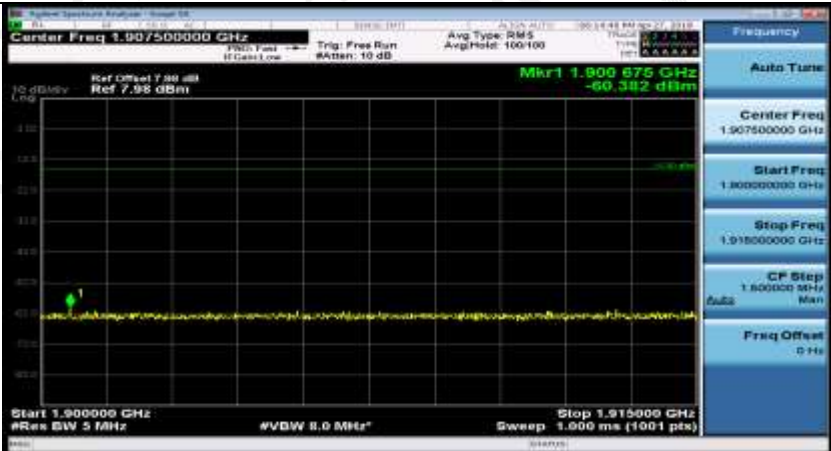
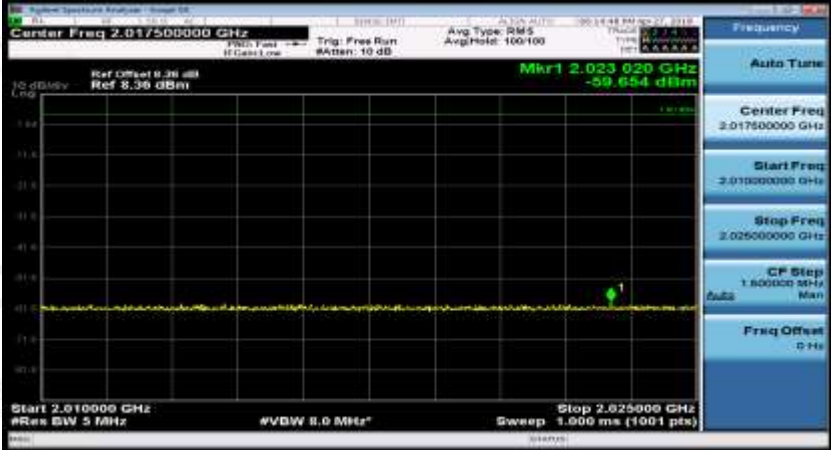
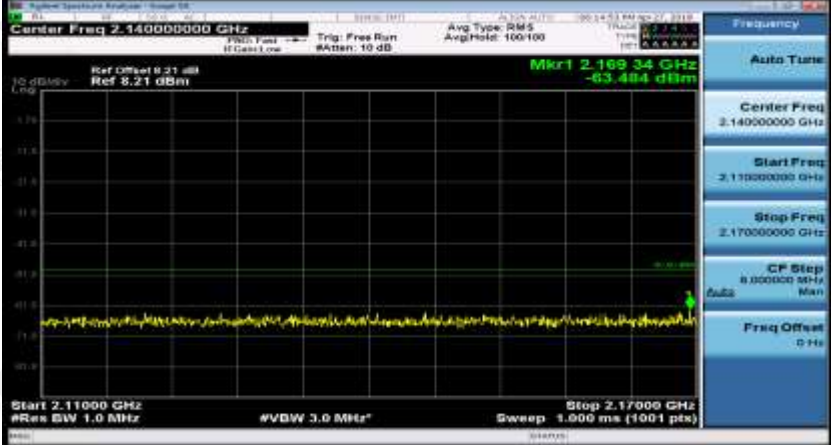
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General			
General			
General			

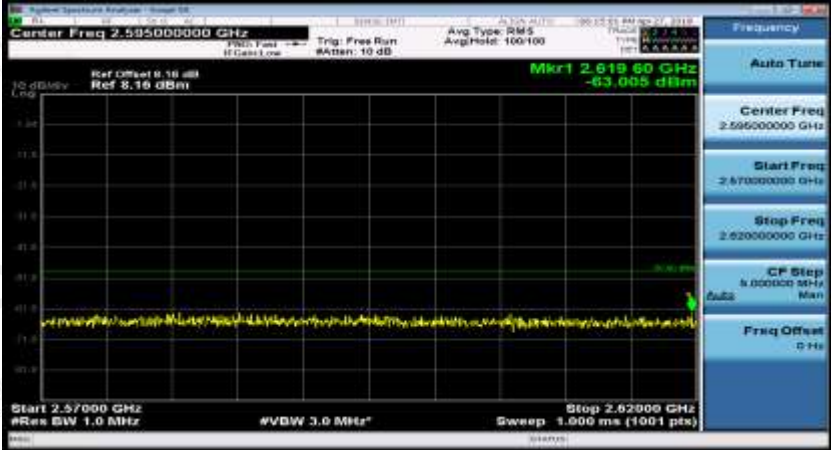
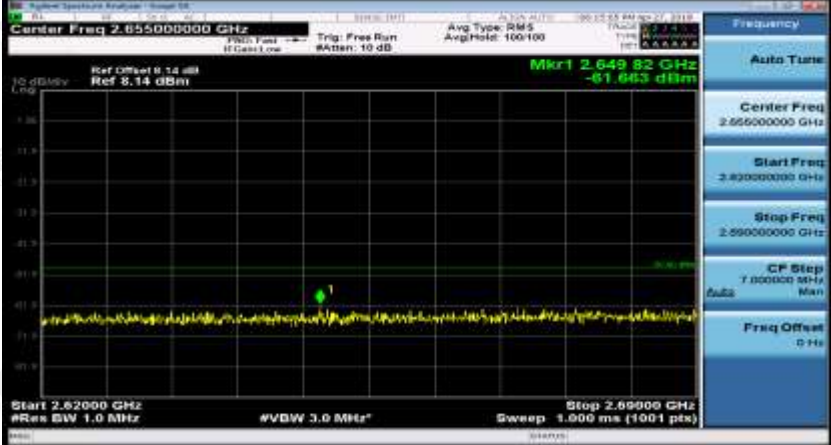
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Co-existence	
Co-existence	
Co-existence	

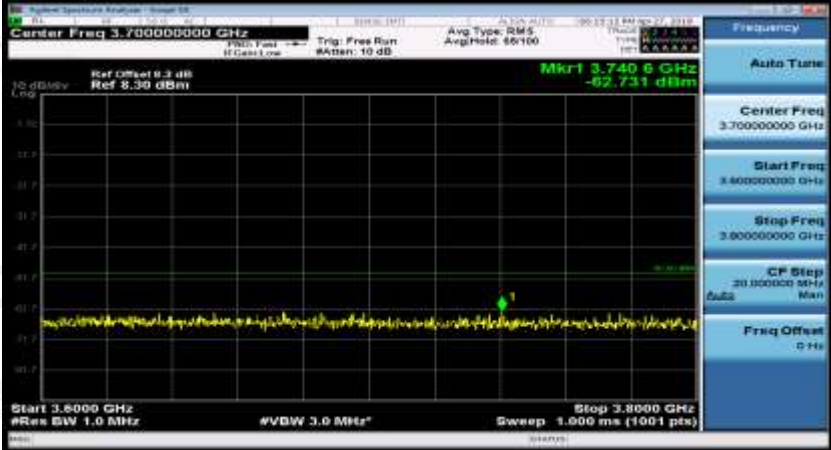
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Co-existence	
Co-existence	
Co-existence	

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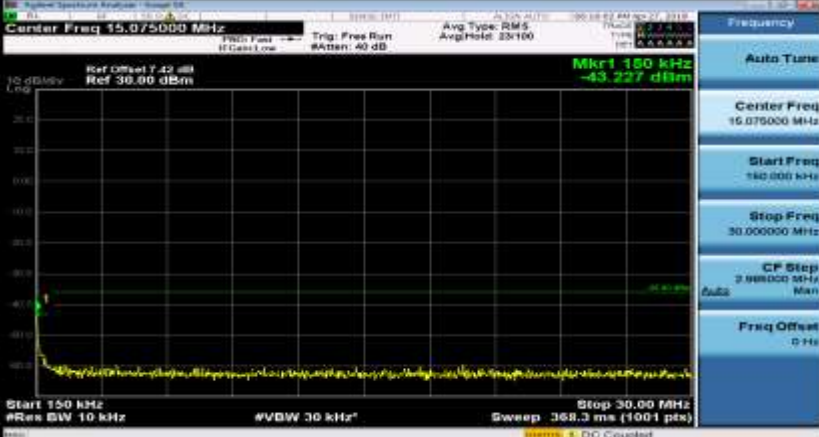
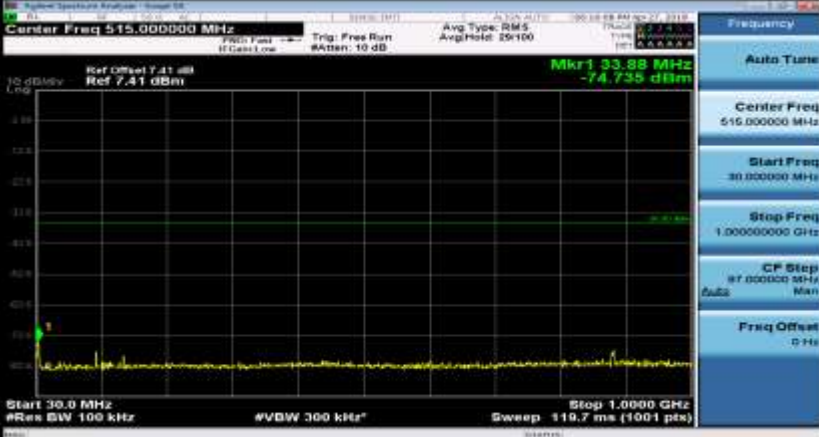
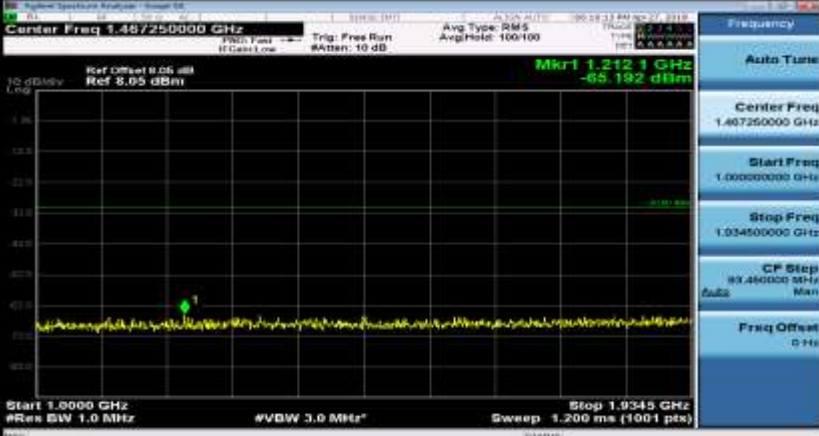
Co-existence	
Co-existence	
Co-existence	

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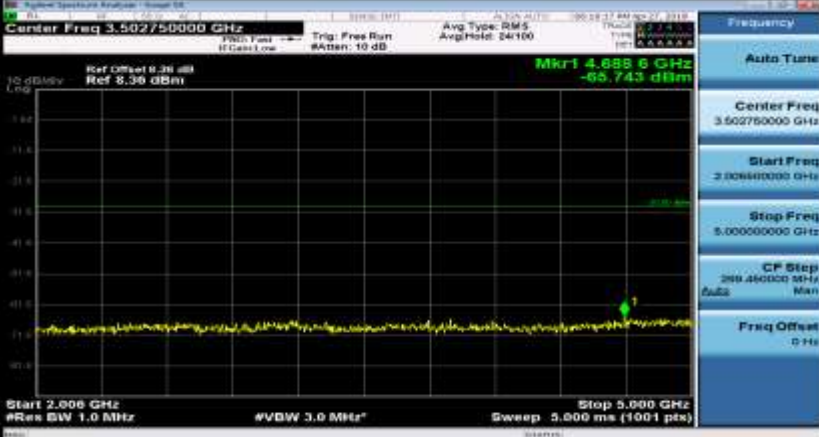
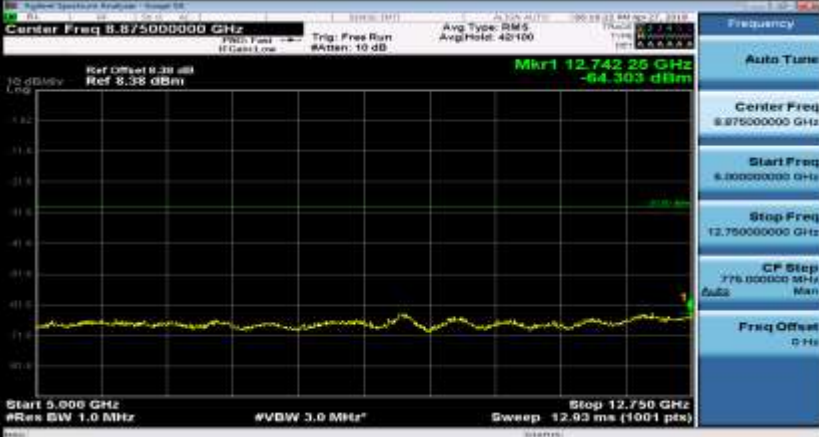
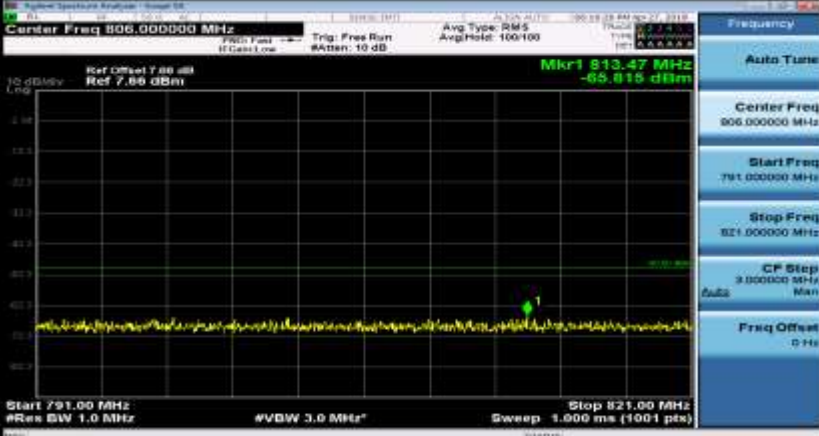
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	

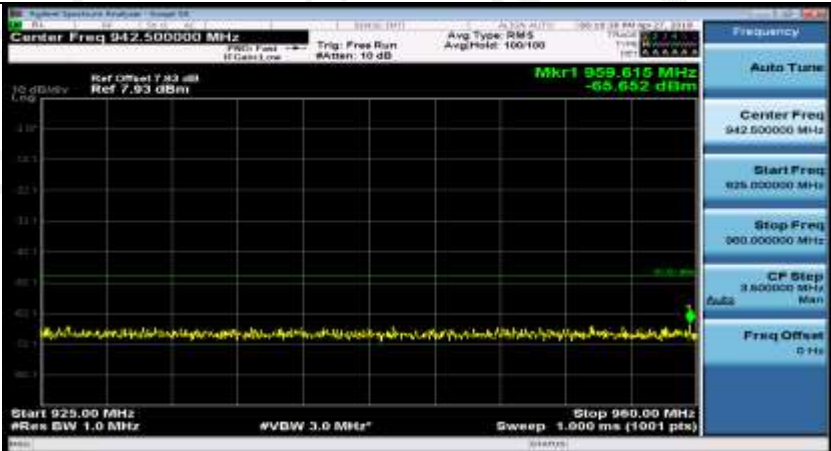
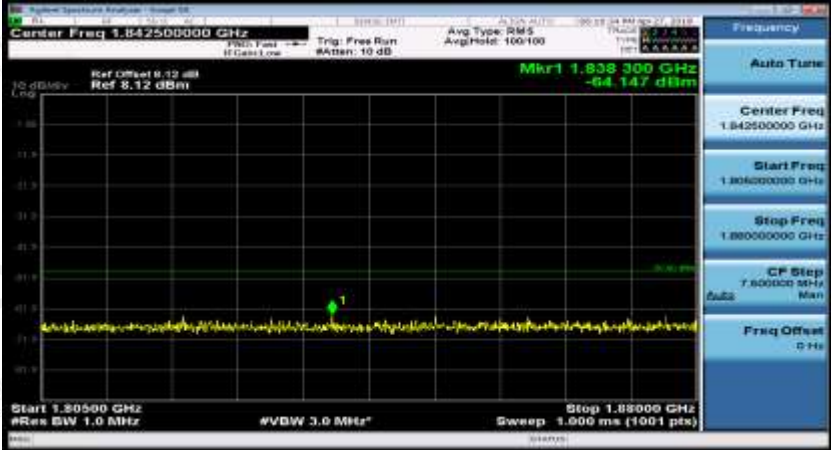
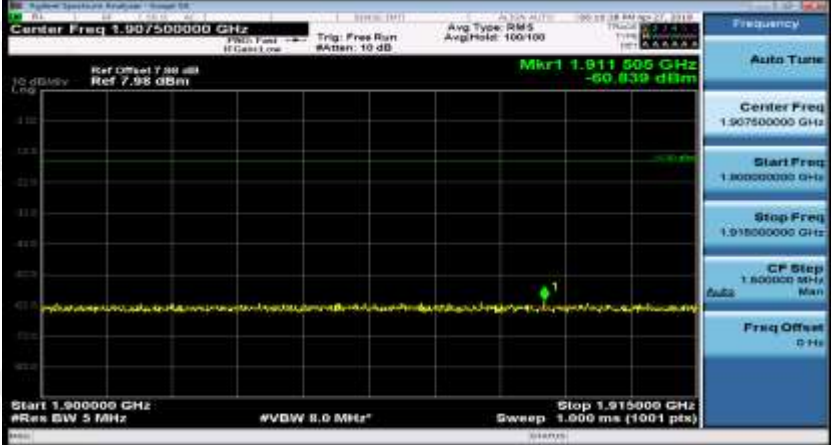
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General			
General			
General			

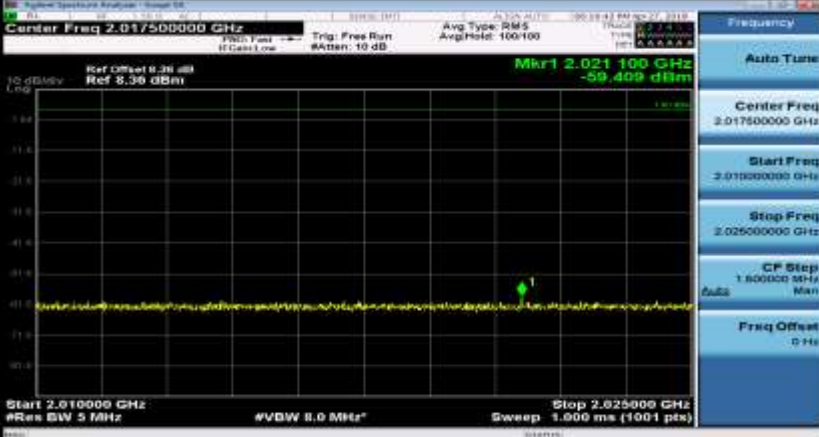
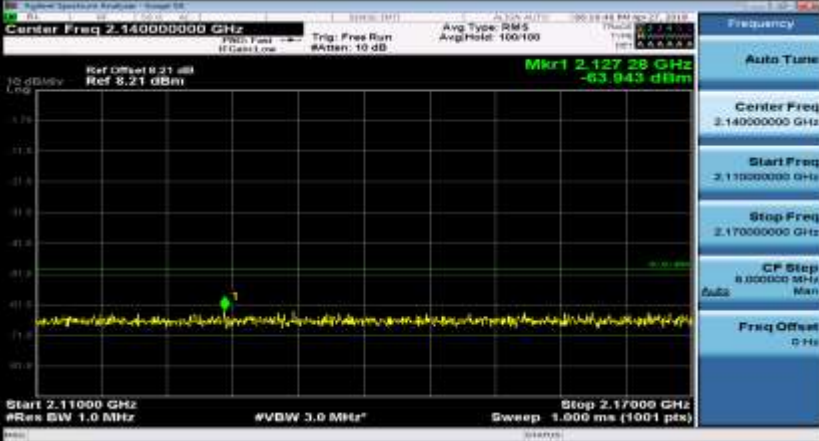
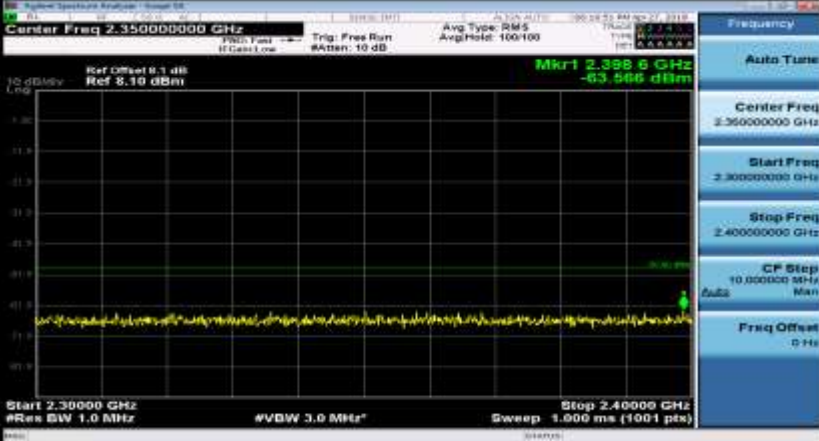
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General			
General			
Co-existence			

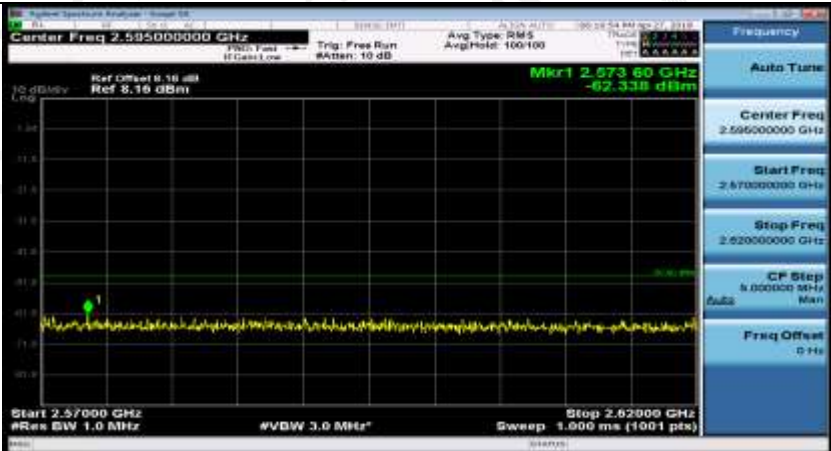
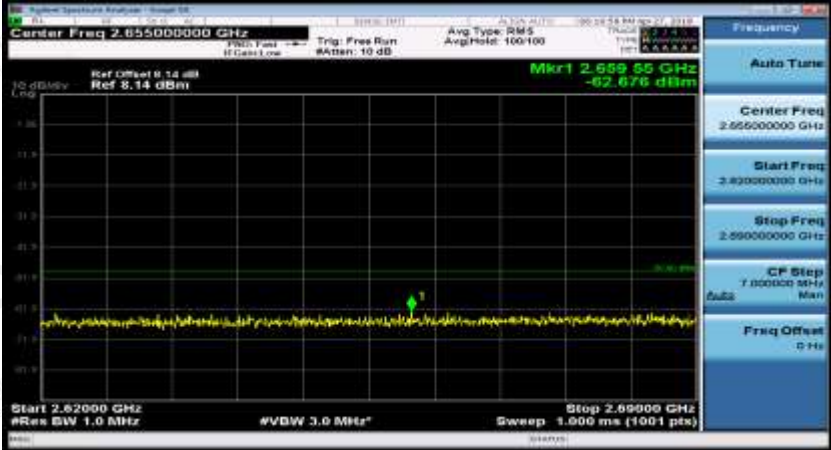
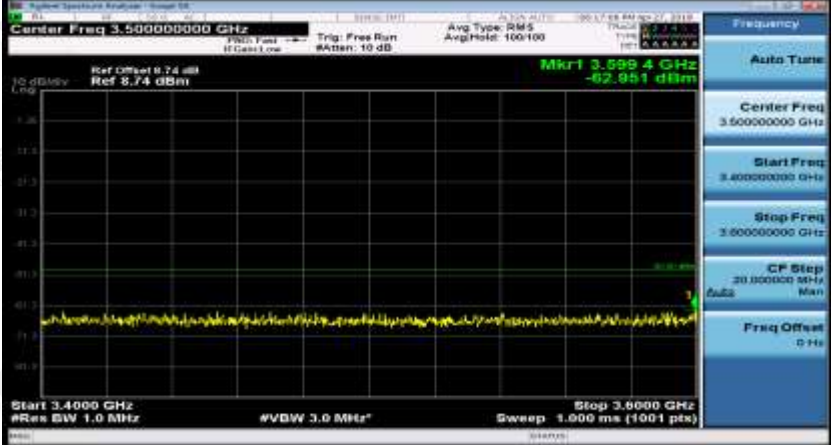
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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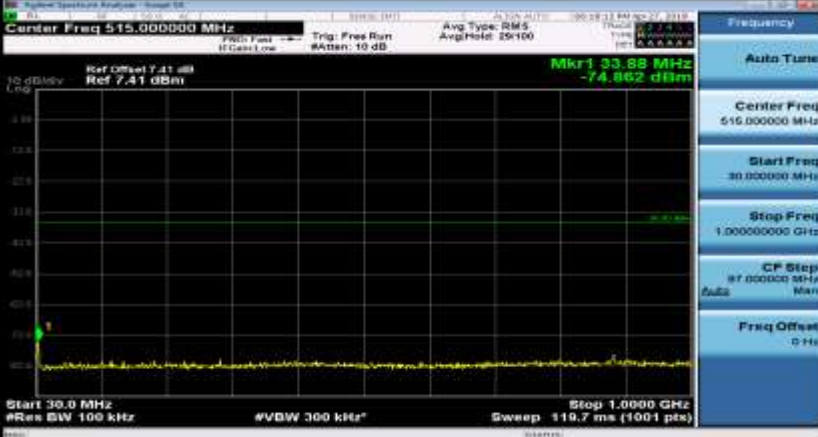


Co-existence	
Co-existence	
Co-existence	

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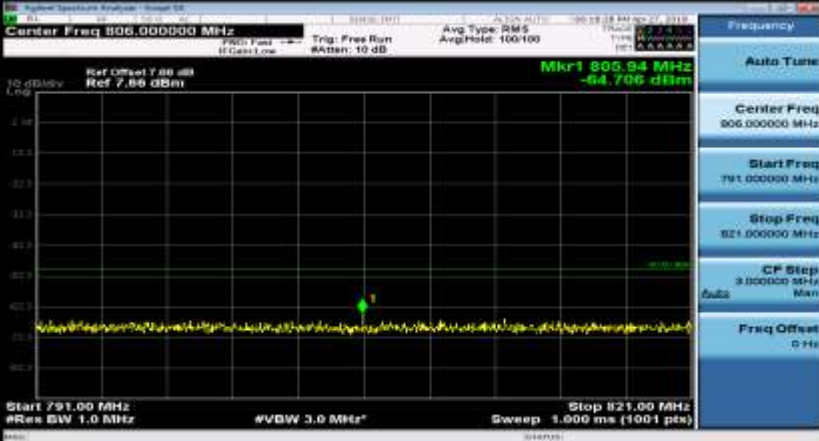
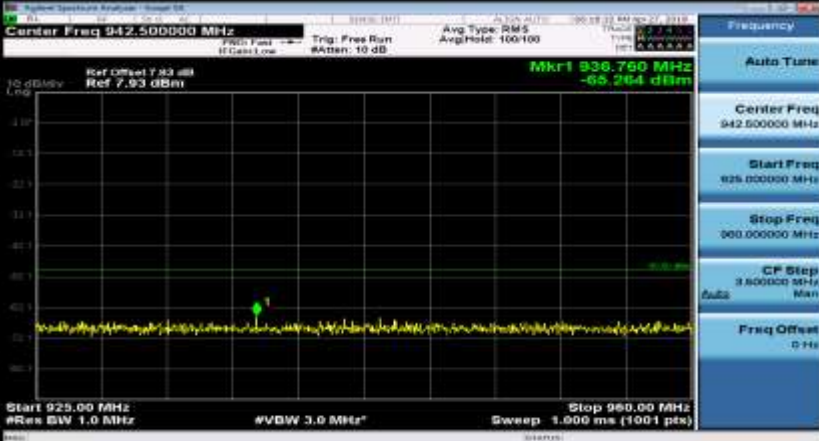
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	
General	

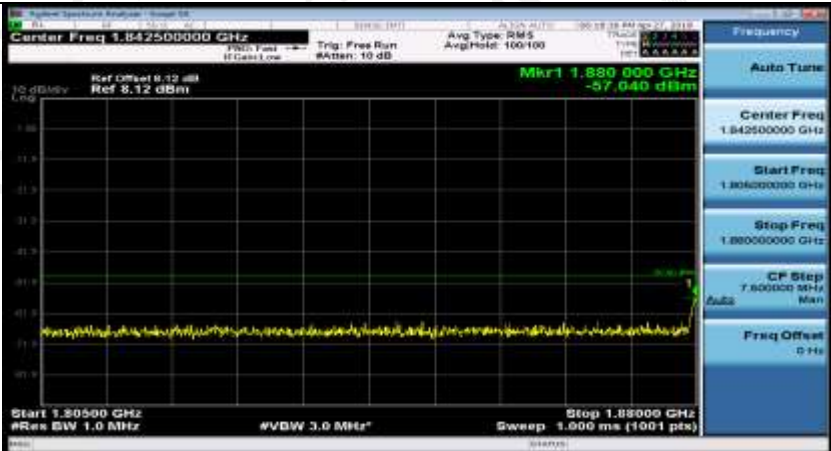
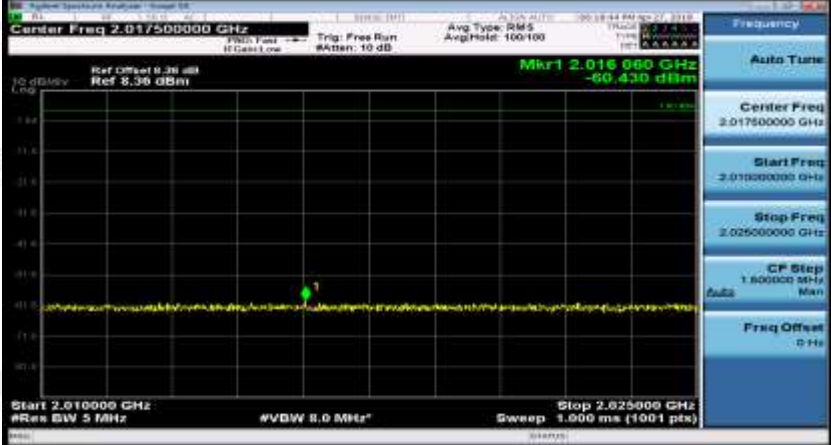
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General			
General			
General			

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General			
Co-existence			
Co-existence			

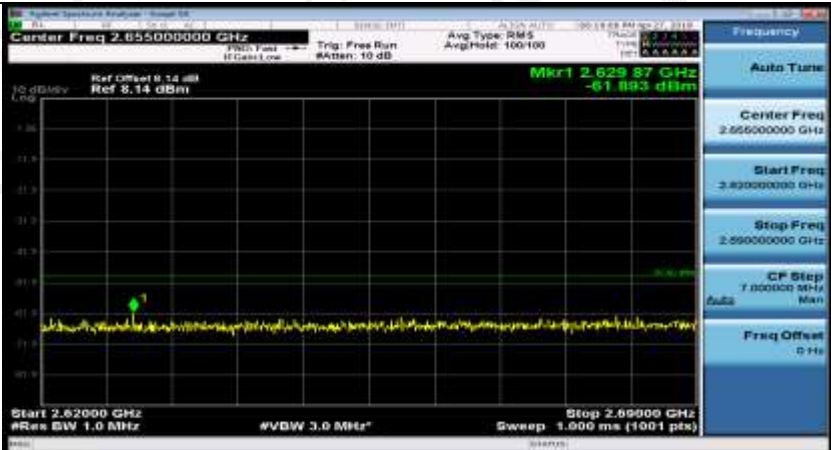
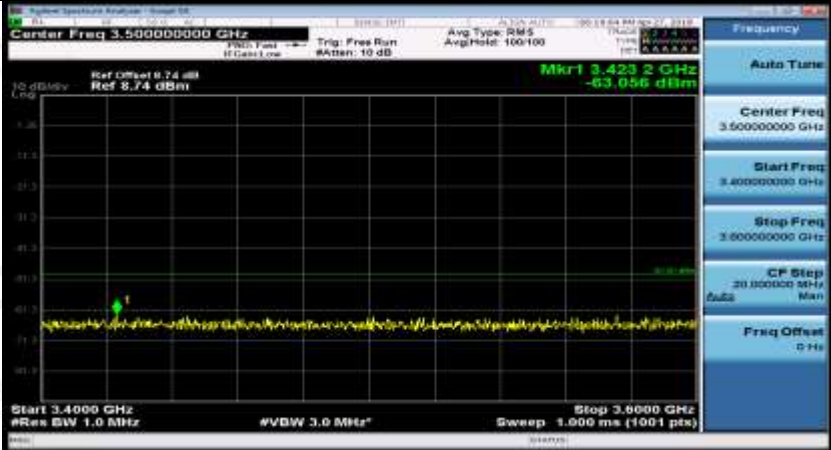
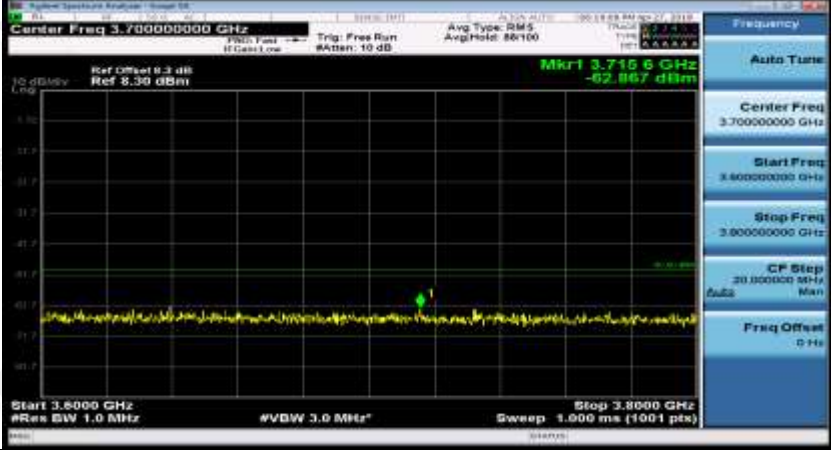
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

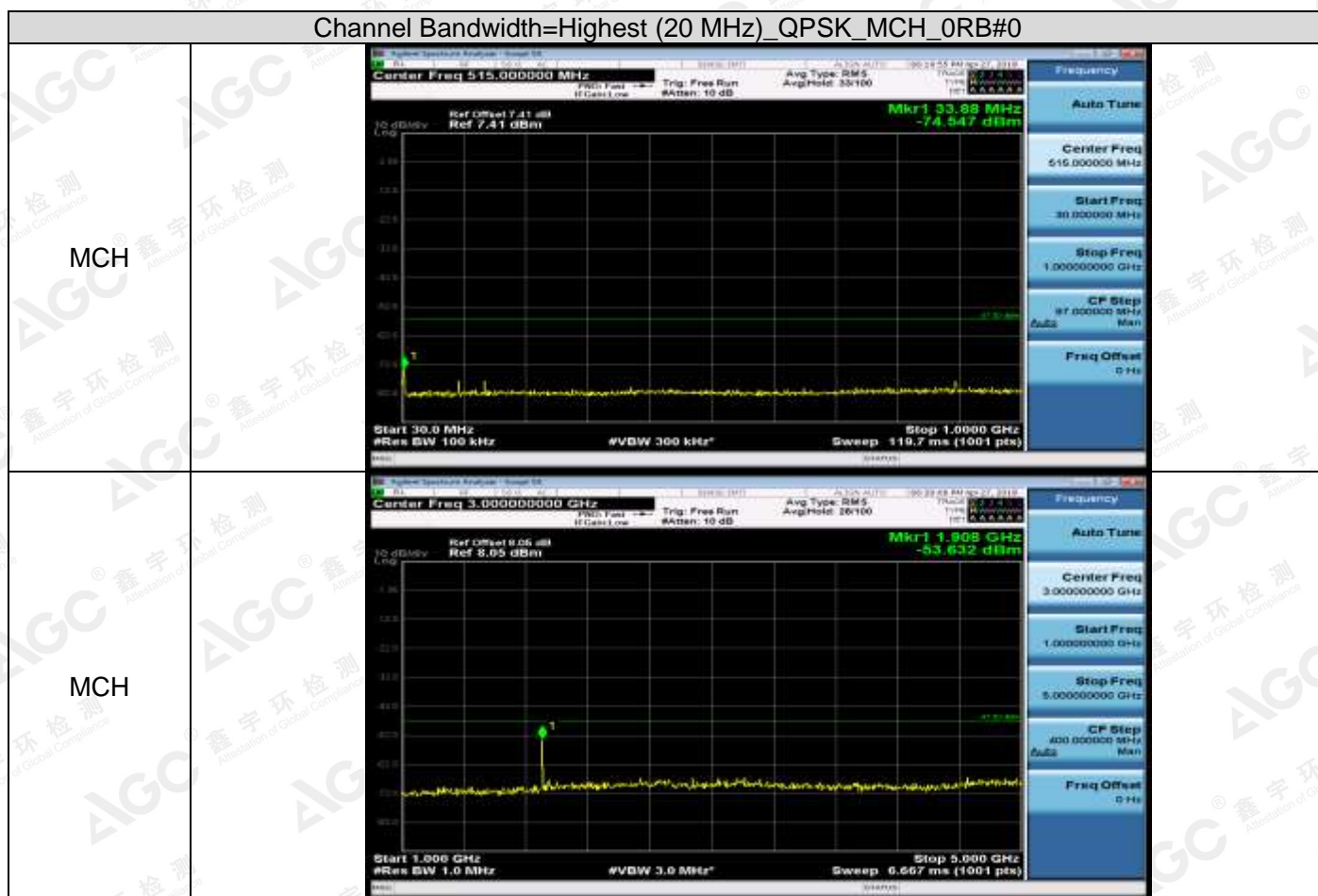
Test Graphs

NTNV

Channel Bandwidth=Highest



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Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_0RB#0



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7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment		NC			
Test Frequencies		Low range for FInterferer below FDL_low High range for FInterferer above FDL_high			
Test Channel Bandwidths		Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment		NC	
Test Frequencies		Mid range	
Test Channel Bandwidths		Lowest, 5MHz, Highest 20MHz	
Test Parameters for Channel Bandwidths			
	Downlink Configuration	Uplink Configuration	

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Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 1			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
Verdict	Pass					

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11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

	Test Band			Band 1			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TL,VL	5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
	Verdict	Pass					

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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-81.32	-81.78	-81.96
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-69.31	-69.75	-69.94
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-65.33	-65.68	-65.89

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Appendix B for Band 3

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTHV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	21.95	Pass
					max	21.93	Pass
				Partial	0	22.08	Pass
					max	22.05	Pass
			Mid range	1	0	21.84	Pass
					max	21.87	Pass
				Partial	0	22.02	Pass
					max	22.07	Pass
			High range	1	0	22.01	Pass
					max	21.35	Pass
				Partial	0	21.54	Pass
					max	22.02	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	1	0	21.96	Pass
					max	21.95	Pass
				Partial	0	22.15	Pass
					max	22.09	Pass
			Mid range	1	0	21.71	Pass
					max	21.70	Pass
				Partial	0	21.87	Pass
					max	21.88	Pass
			High range	1	0	22.04	Pass
					max	22.12	Pass
				Partial	0	21.60	Pass
					max	21.25	Pass

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Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	21.63	Pass
					max	21.69	Pass
				Partial	0	21.69	Pass
					max	21.70	Pass
			Mid range	1	0	21.55	Pass
					max	21.66	Pass
				Partial	0	21.59	Pass
					max	21.62	Pass
			High range	1	0	21.72	Pass
					max	21.15	Pass
				Partial	0	21.71	Pass
					max	21.52	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Full	0	-50.88	Pass
			Mid range	Full	0	-50.66	Pass
			High range	Full	0	-50.47	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	Full	0	-50.30	Pass
			Mid range	Full	0	-50.14	Pass
			High range	Full	0	-50.04	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	#BWH MHz	Low range	Full	0	-50.17	Pass
			Mid range	Full	0	-49.59	Pass
			High range	Full	0	-49.38	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass

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			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full		0	PUMAX	Pass		
16QAM	Low range	Partial	0	PUMAX	Pass		

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					max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Mid range	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Test Graphs

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#0																																	
QPSK	<table><tr><th colspan="2">Detected Allocation</th><th colspan="2">S OtherRBs</th><th colspan="2">S OtherRBs</th><th colspan="2">S OtherRBs</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th></tr><tr><td>0.870 MHz</td><td>0.870 MHz</td><td>0.870 MHz</td><td>0.870 MHz</td><td>0.870 MHz</td><td>0.870 MHz</td><td>0.870 MHz</td><td>0.870 MHz</td></tr><tr><td>22.06 dBm</td><td>22.10 dBm</td><td>21.95 dBm</td><td>22.26 dBm</td><td>0.07 dBm</td><td>0.07 dBm</td><td>0.07 dBm</td><td>0.07 dBm</td></tr></table>	Detected Allocation		S OtherRBs		S OtherRBs		S OtherRBs		Current	Average	Current	Average	Current	Average	Current	Average	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	22.06 dBm	22.10 dBm	21.95 dBm	22.26 dBm	0.07 dBm	0.07 dBm	0.07 dBm	0.07 dBm
Detected Allocation		S OtherRBs		S OtherRBs		S OtherRBs																											
Current	Average	Current	Average	Current	Average	Current	Average																										
0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz	0.870 MHz																										
22.06 dBm	22.10 dBm	21.95 dBm	22.26 dBm	0.07 dBm	0.07 dBm	0.07 dBm	0.07 dBm																										
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#max																																	
QPSK	<table><tr><th colspan="2">Detected Allocation</th><th colspan="2">S OtherRBs</th><th colspan="2">S OtherRBs</th><th colspan="2">S OtherRBs</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th></tr><tr><td>0.870 MHz</td><td>0.872 MHz</td><td>0.872 MHz</td><td>0.872 MHz</td><td>0.872 MHz</td><td>0.872 MHz</td><td>0.872 MHz</td><td>0.872 MHz</td></tr><tr><td>22.03 dBm</td><td>22.10 dBm</td><td>21.95 dBm</td><td>22.26 dBm</td><td>0.07 dBm</td><td>0.07 dBm</td><td>0.07 dBm</td><td>0.07 dBm</td></tr></table>	Detected Allocation		S OtherRBs		S OtherRBs		S OtherRBs		Current	Average	Current	Average	Current	Average	Current	Average	0.870 MHz	0.872 MHz	0.872 MHz	0.872 MHz	0.872 MHz	0.872 MHz	0.872 MHz	0.872 MHz	22.03 dBm	22.10 dBm	21.95 dBm	22.26 dBm	0.07 dBm	0.07 dBm	0.07 dBm	0.07 dBm
Detected Allocation		S OtherRBs		S OtherRBs		S OtherRBs																											
Current	Average	Current	Average	Current	Average	Current	Average																										
0.870 MHz	0.872 MHz	0.872 MHz	0.872 MHz	0.872 MHz	0.872 MHz	0.872 MHz	0.872 MHz																										
22.03 dBm	22.10 dBm	21.95 dBm	22.26 dBm	0.07 dBm	0.07 dBm	0.07 dBm	0.07 dBm																										
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullRB#0																																	

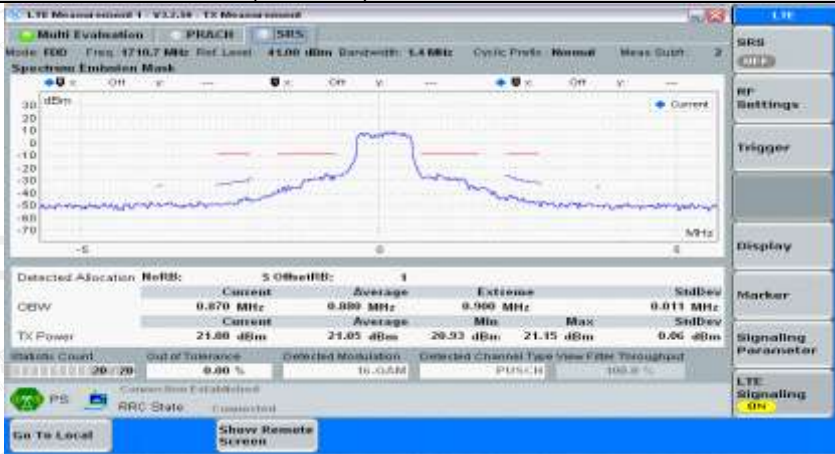
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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0</p>

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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0	

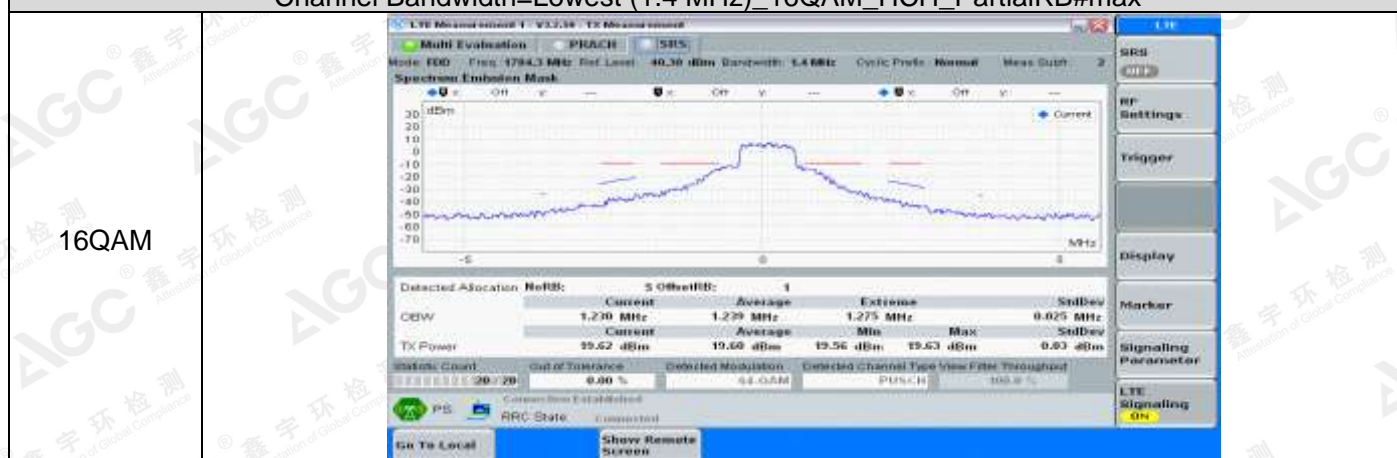
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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0	

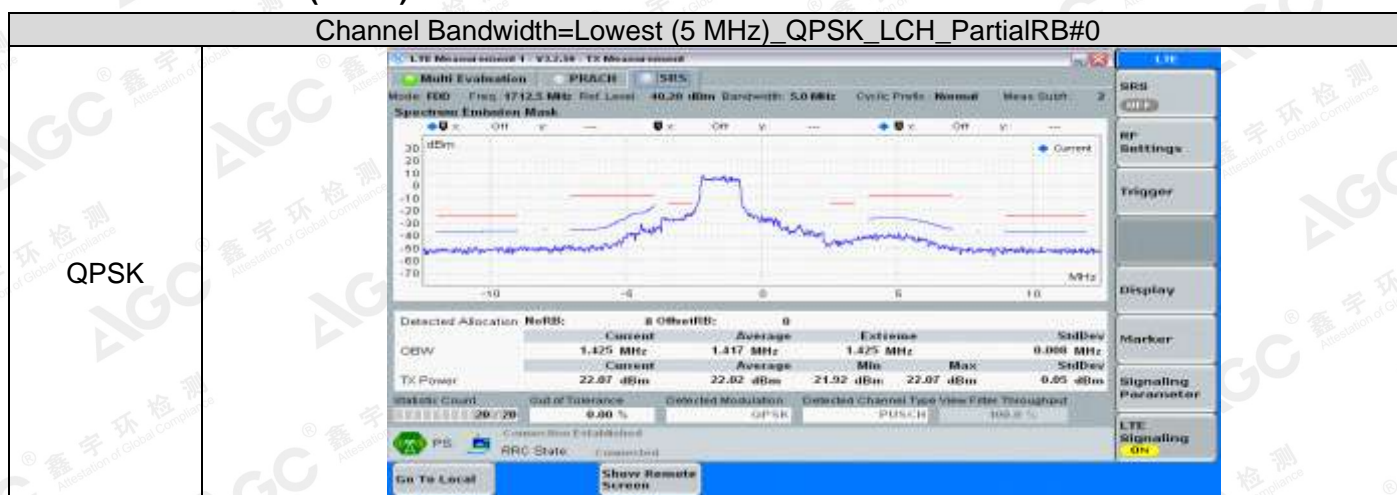
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Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max



Channel Bandwidth=(5 MHz)



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

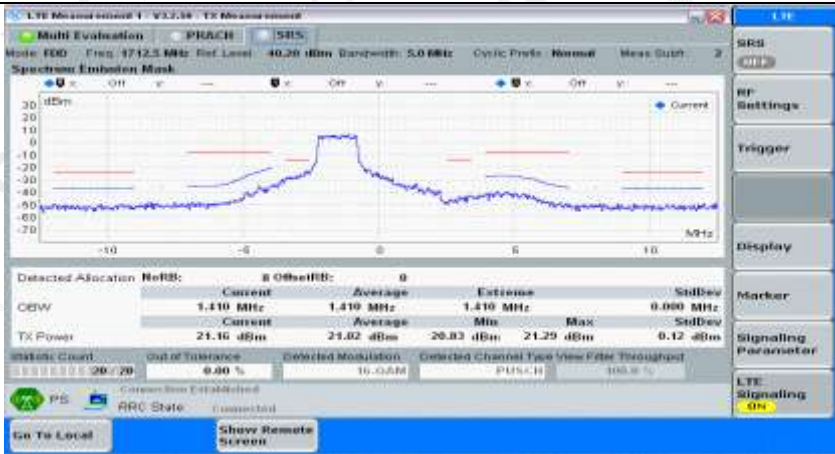
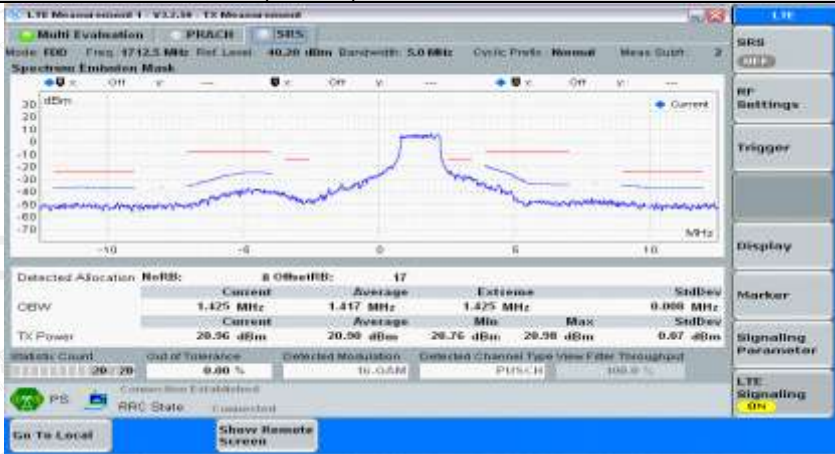
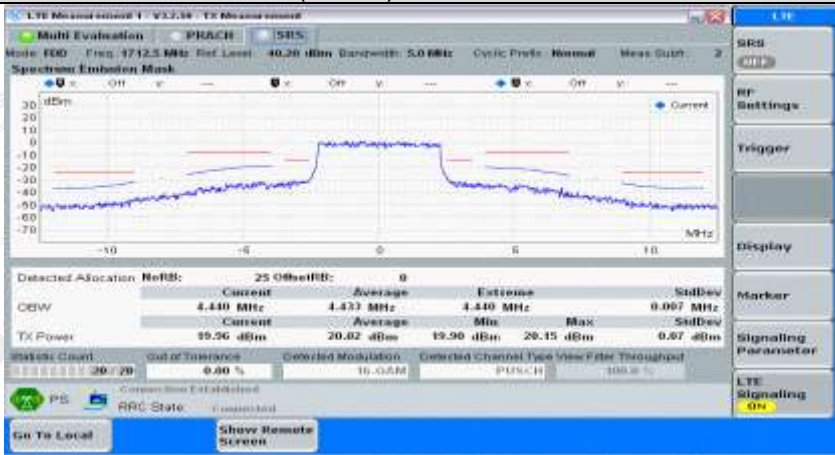
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialIRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialIRB#max	

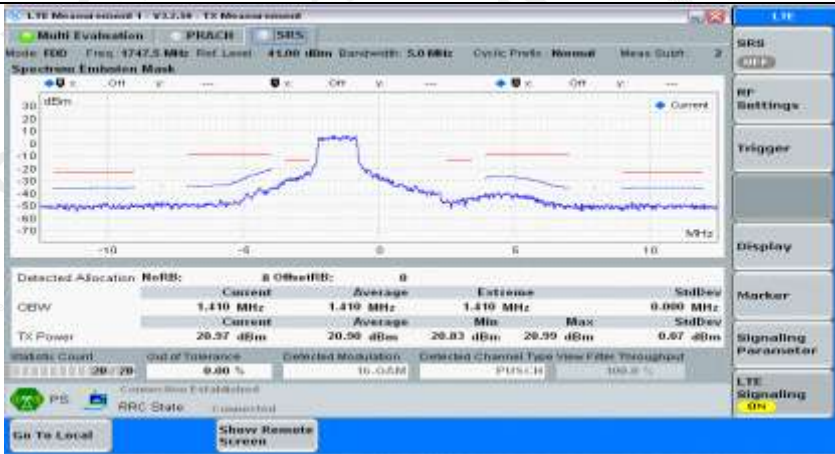
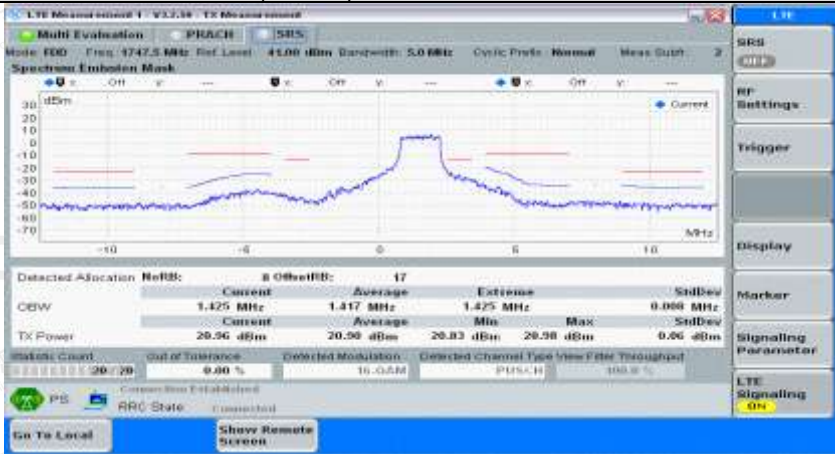
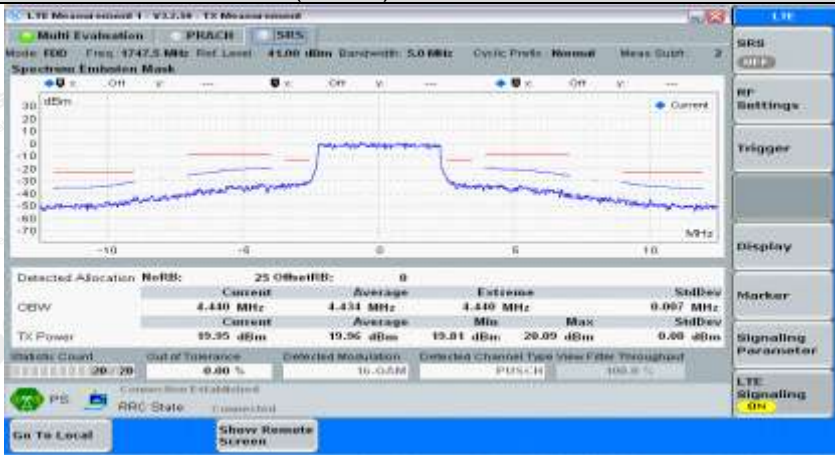
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

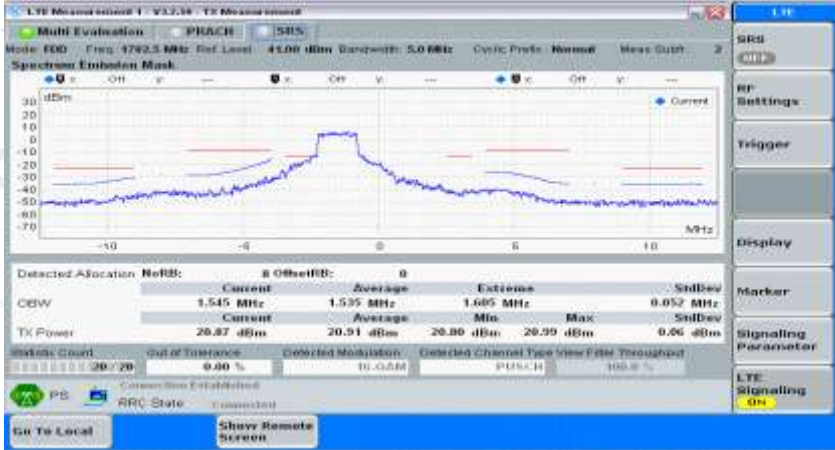
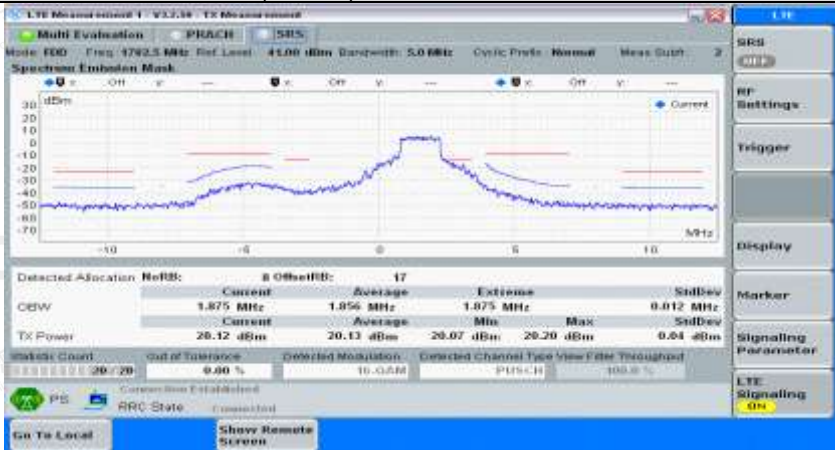
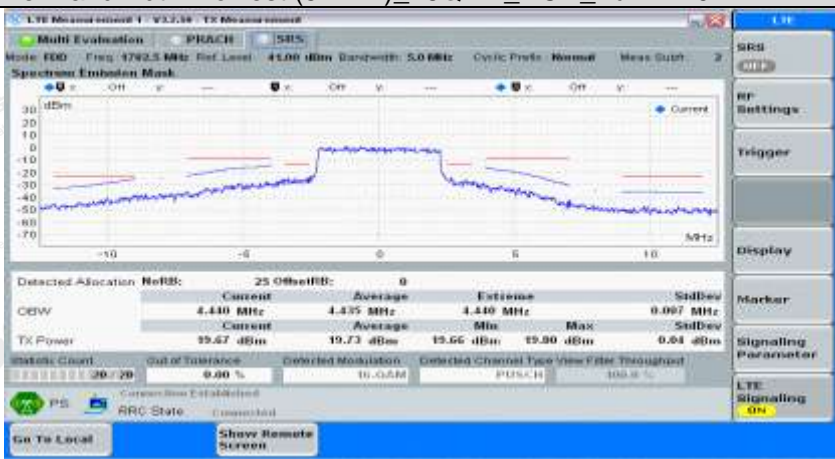
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0	
16QAM	

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Channel Bandwidth= (10 MHz)

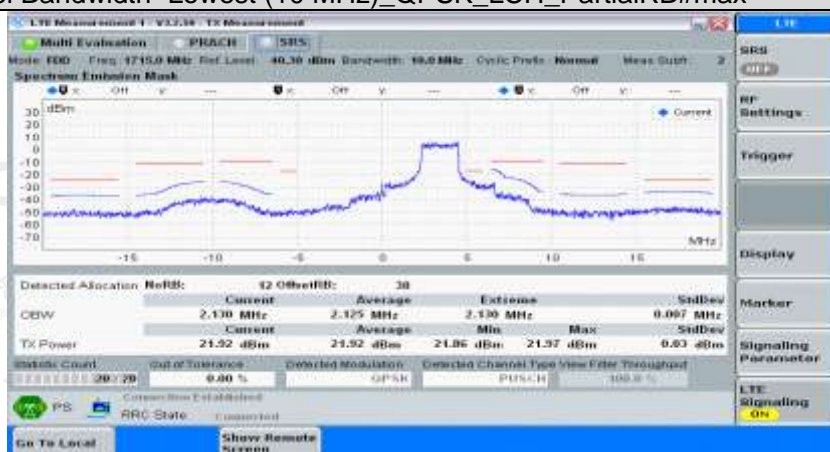
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



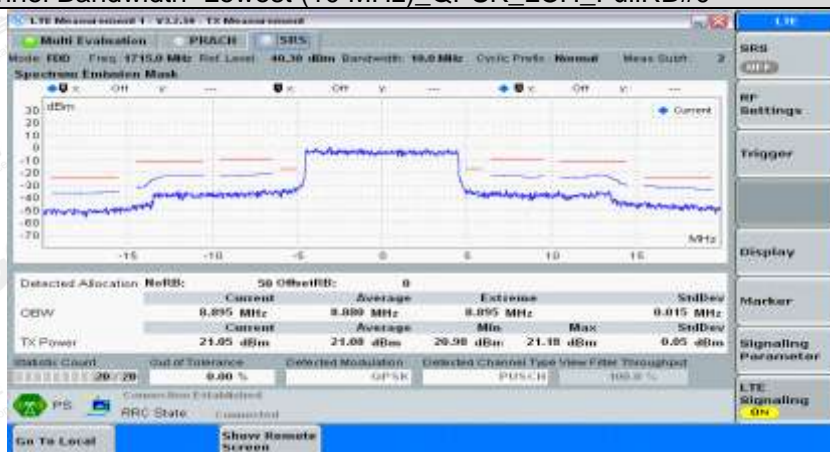
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



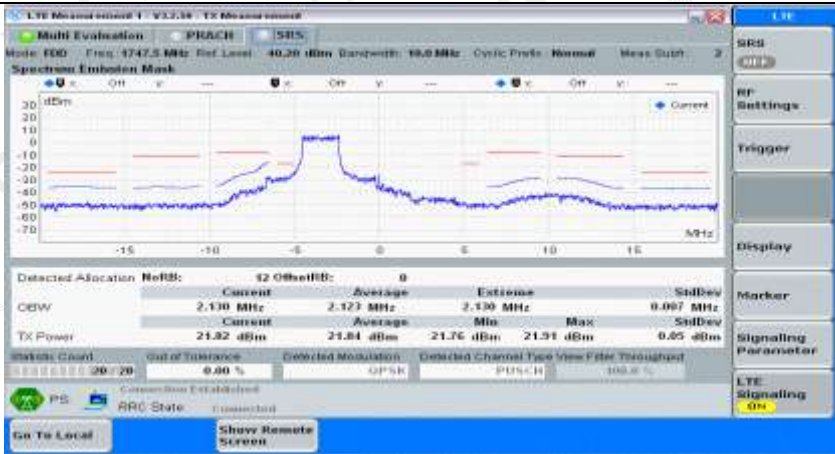
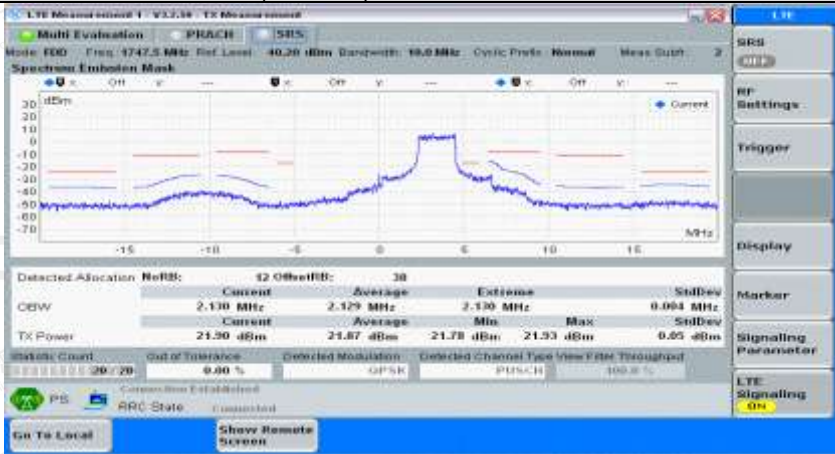
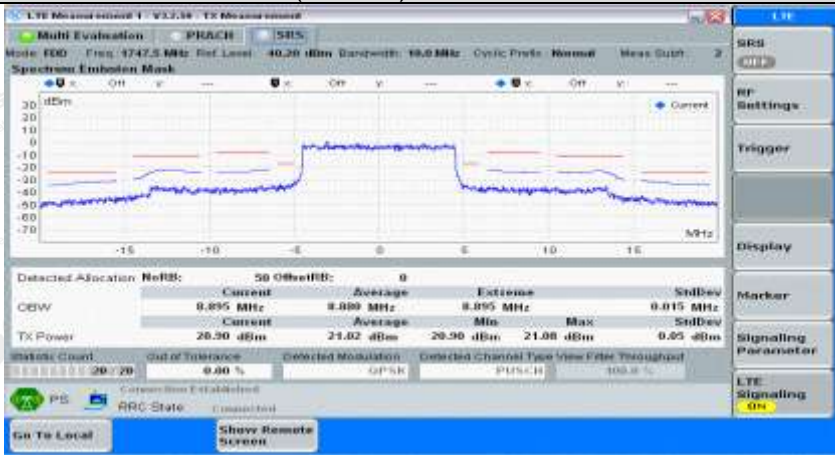
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0

QPSK



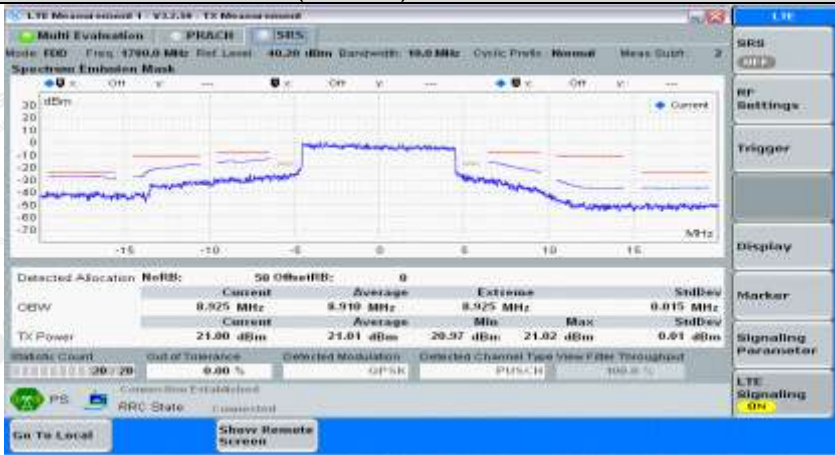


Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

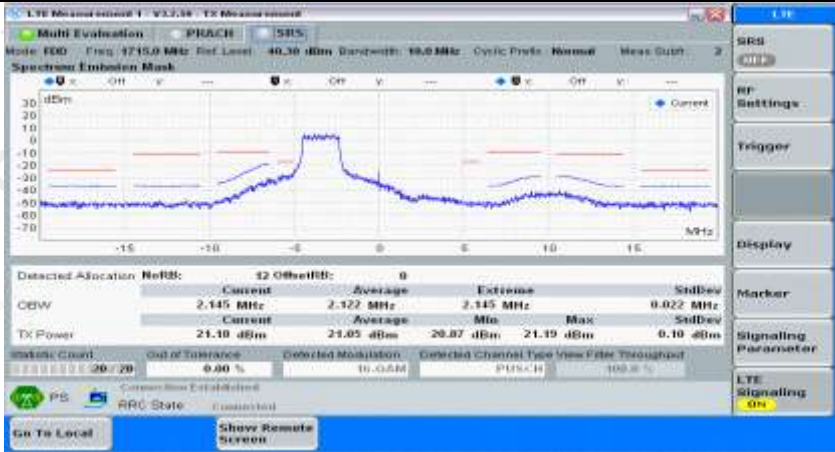
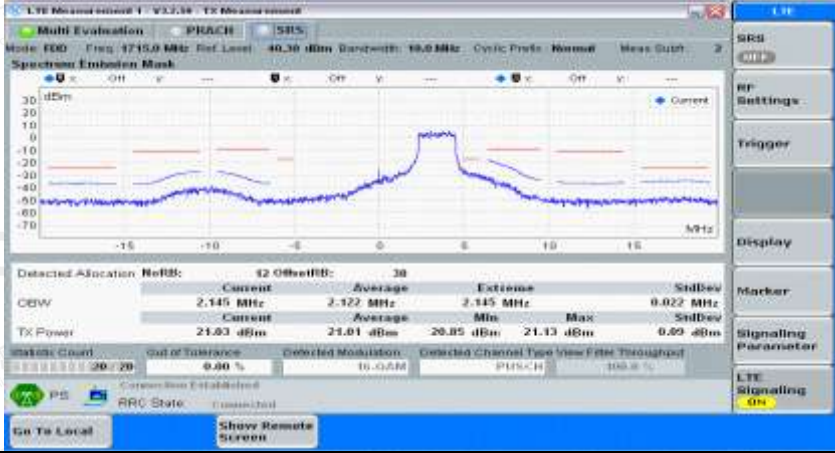
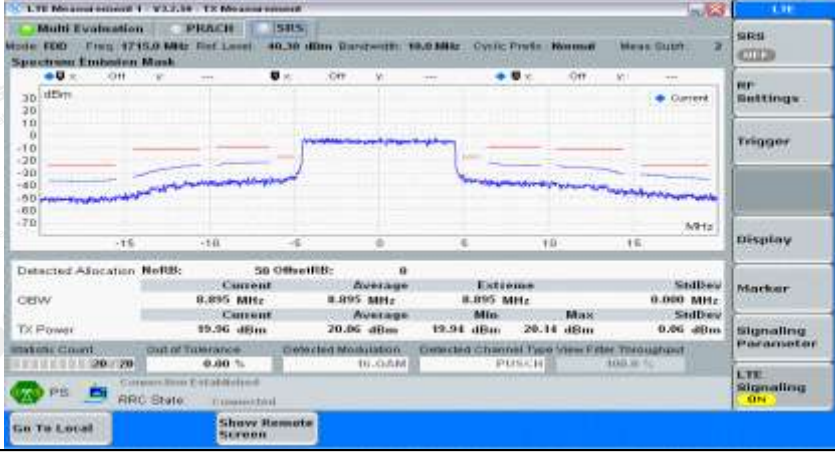
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	



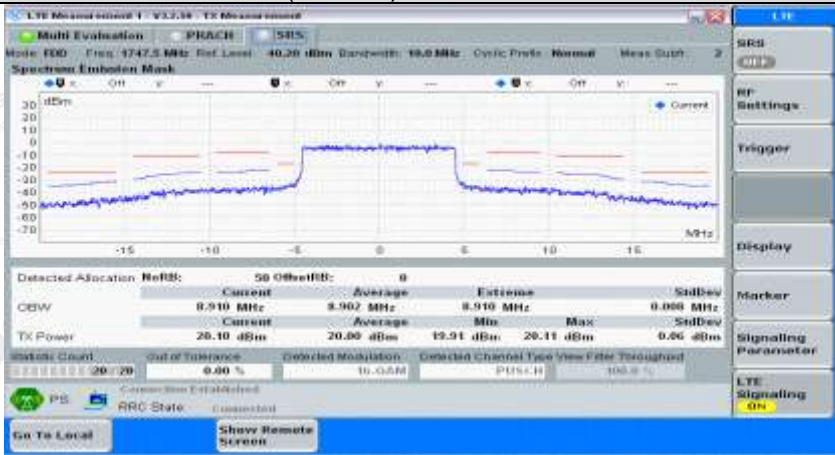
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	


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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

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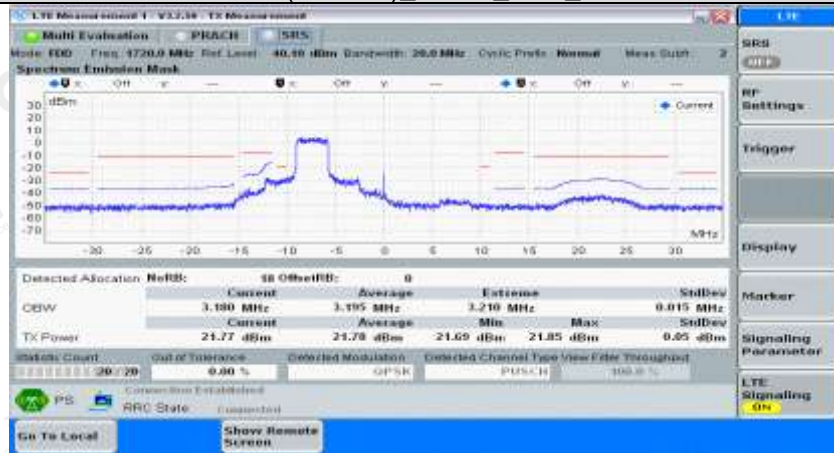
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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Channel Bandwidth=Highest (20 MHz)

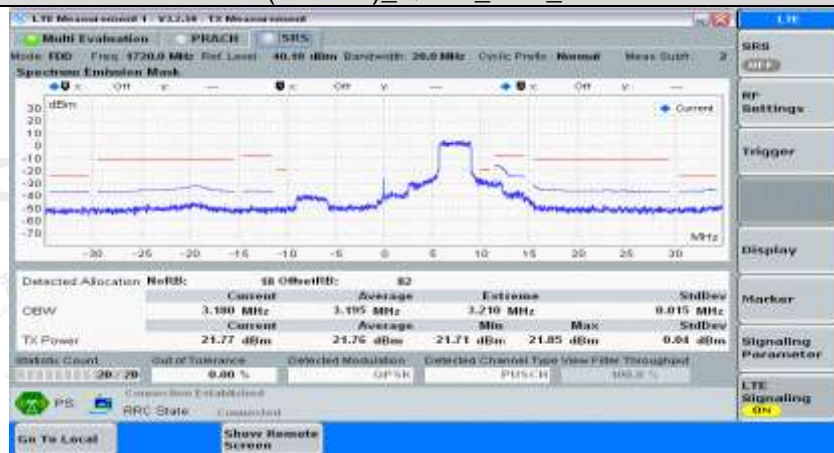
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0

QPSK



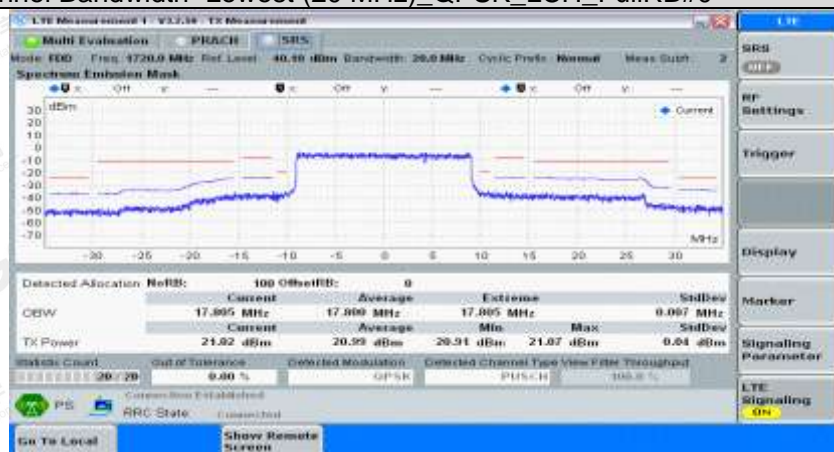
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

QPSK




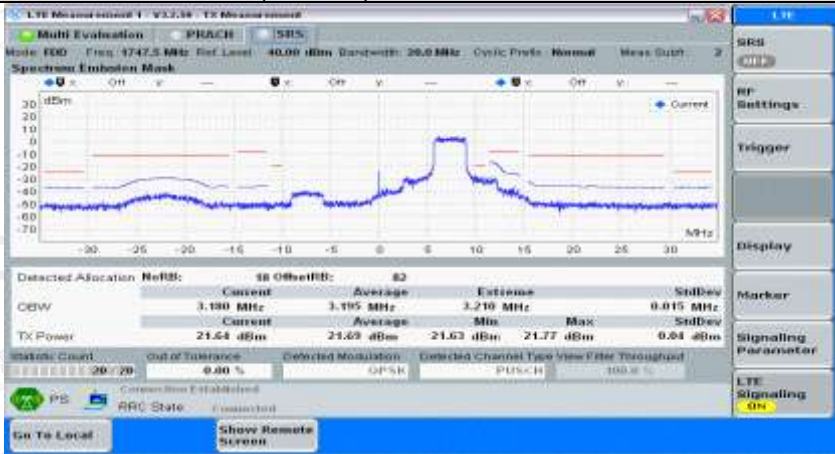
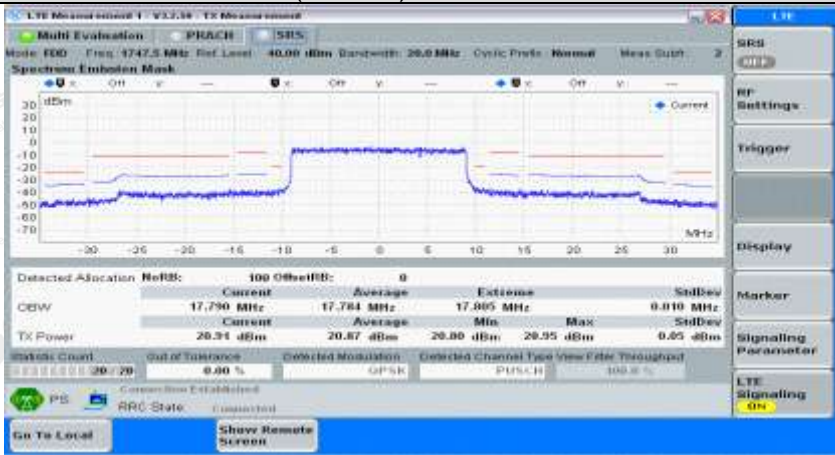
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0

QPSK

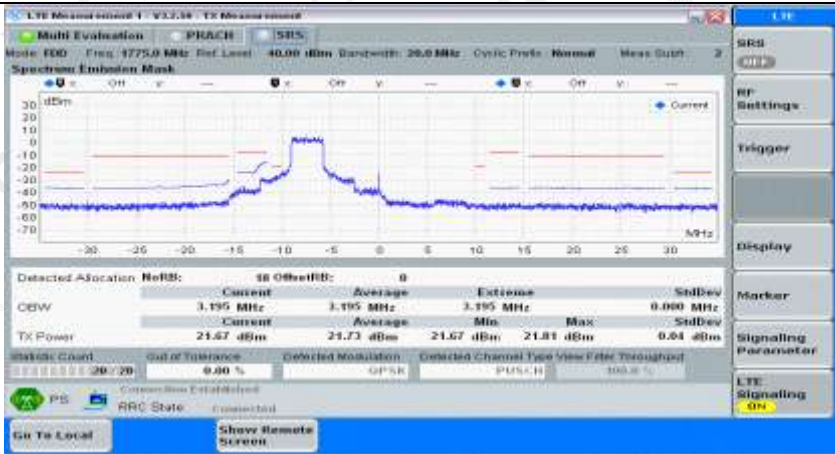

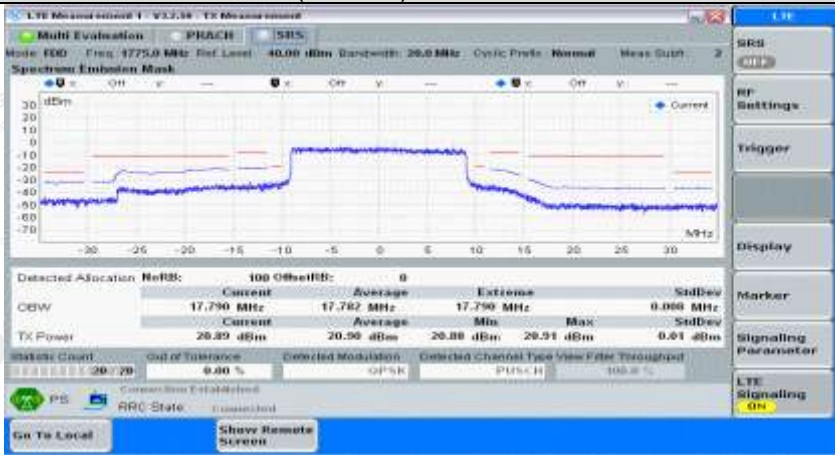


Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

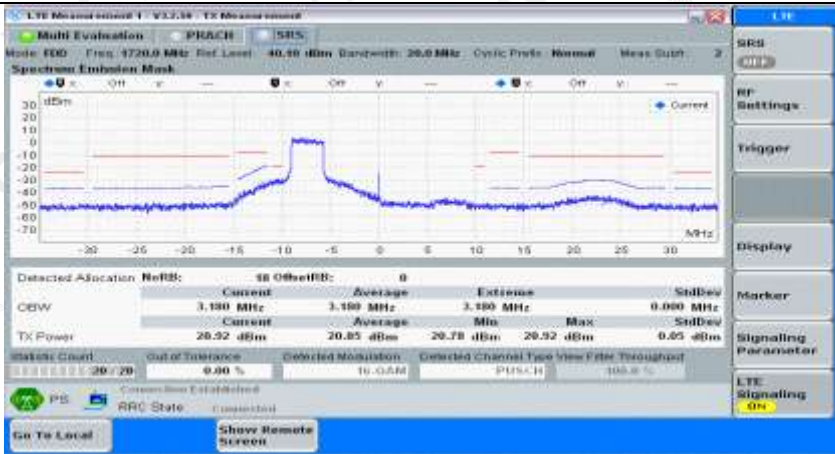
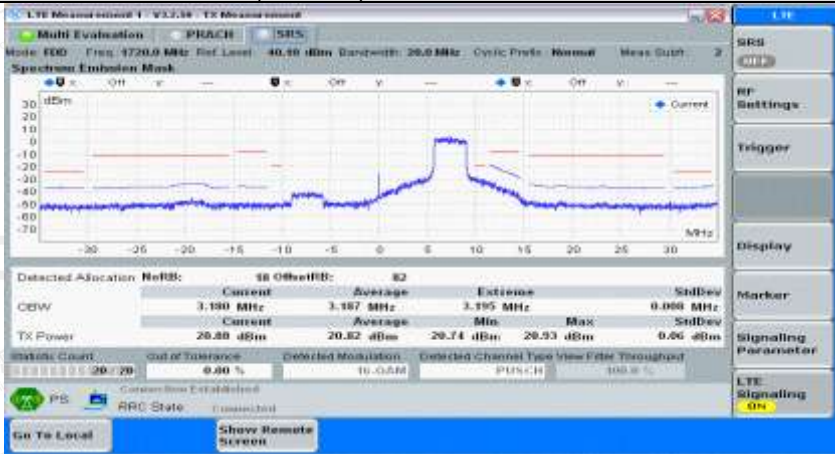
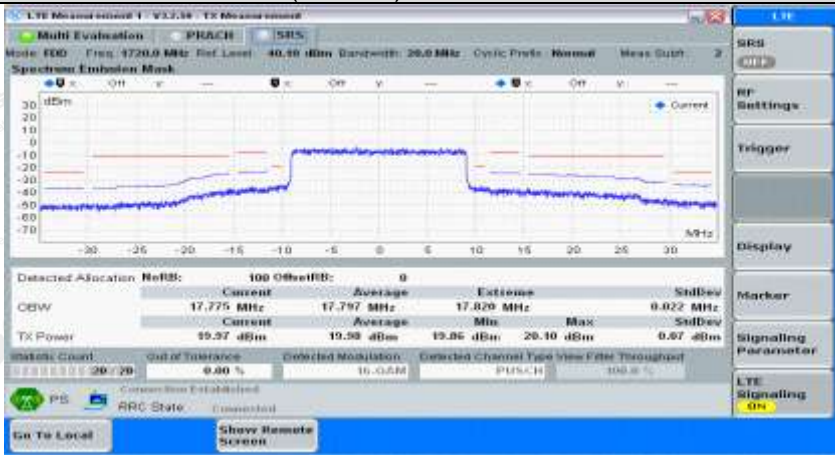
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

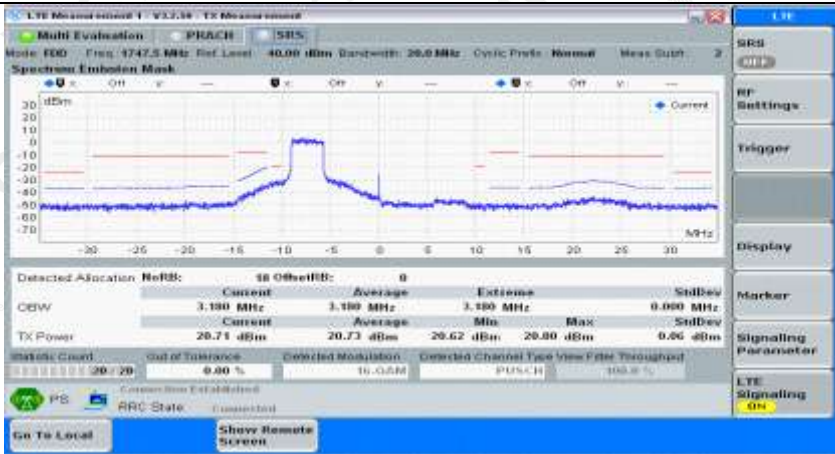
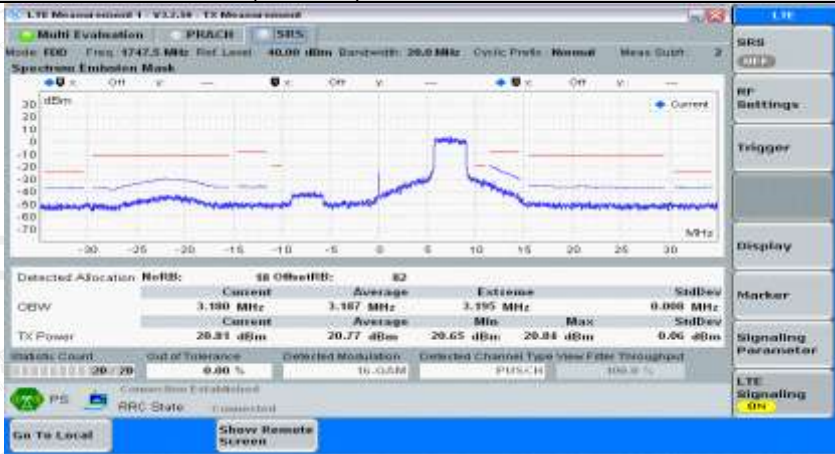
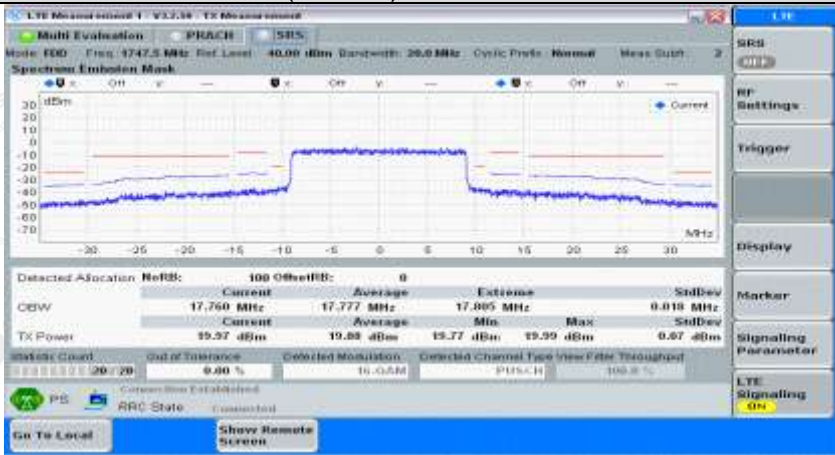
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

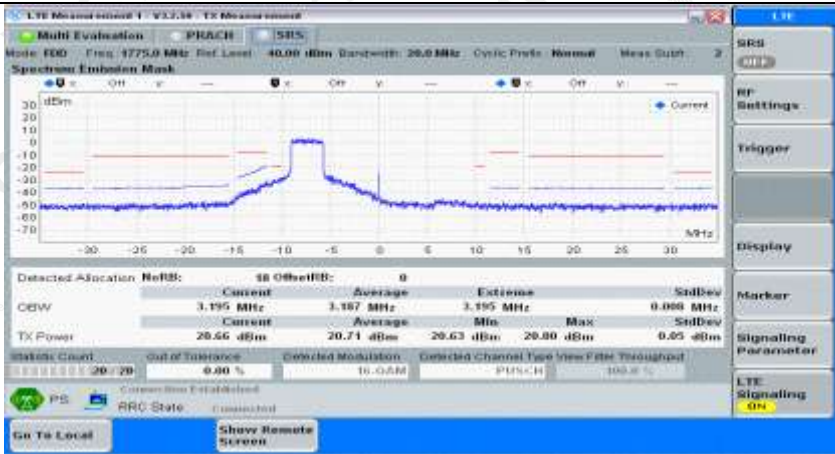
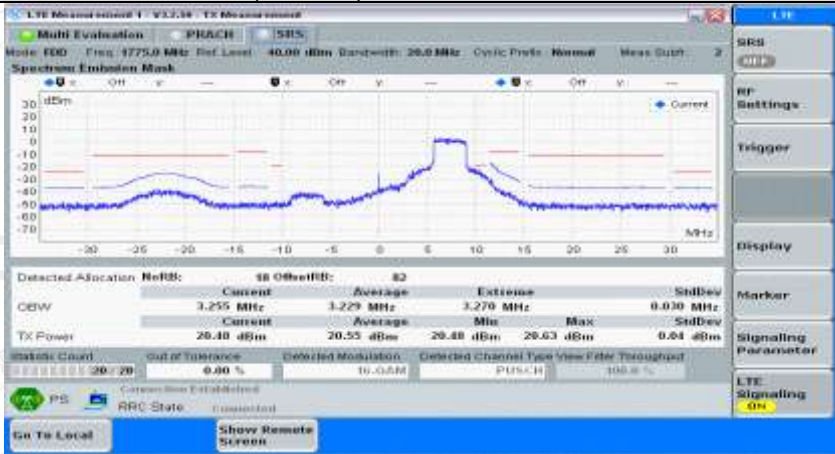
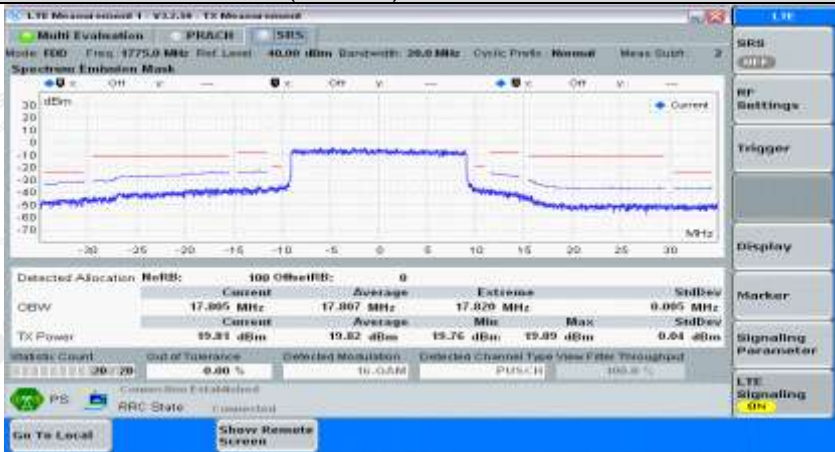
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTHV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTHV	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTHV	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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			Mid range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTHV	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

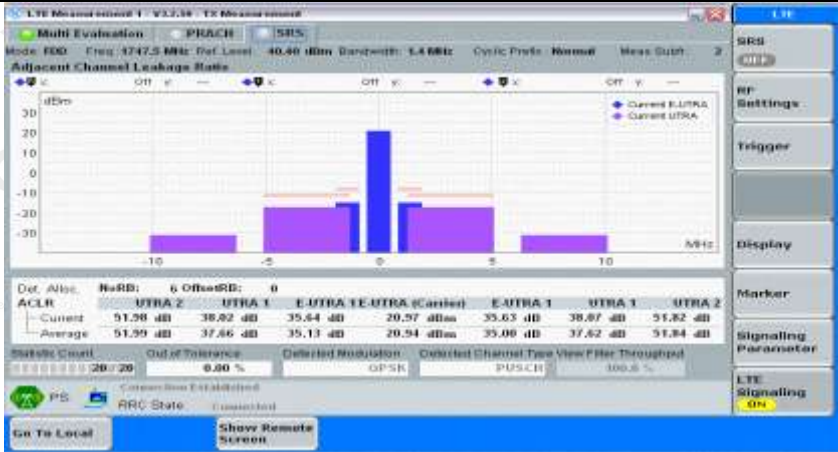

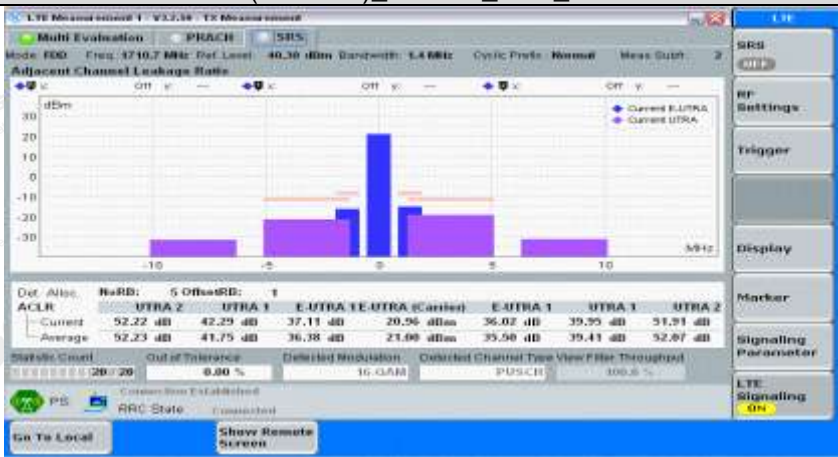
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTHV	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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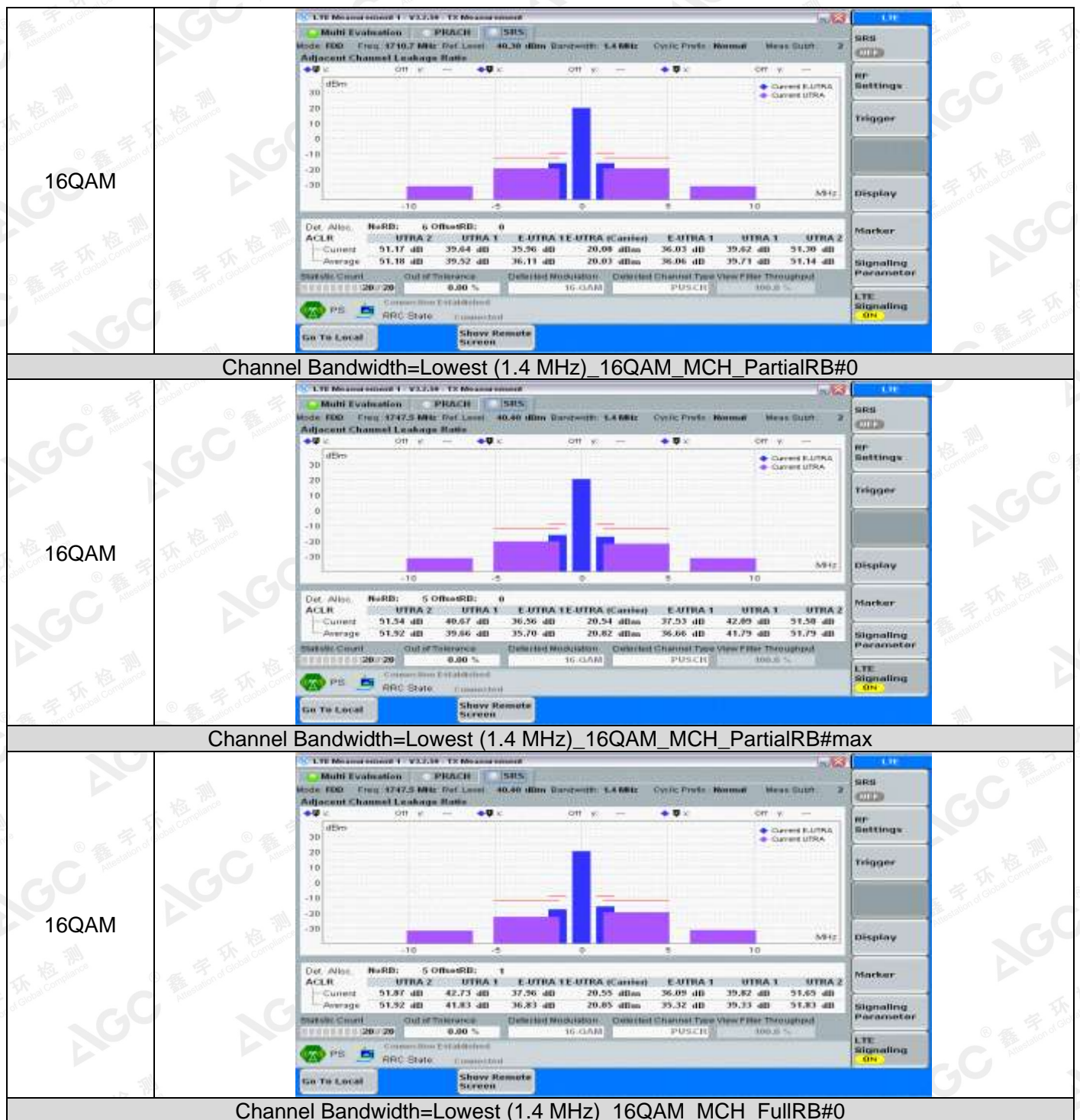
Channel Bandwidth=Lowest (1.4 MHz)



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Add: 2/F., Building 2, No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0</p>

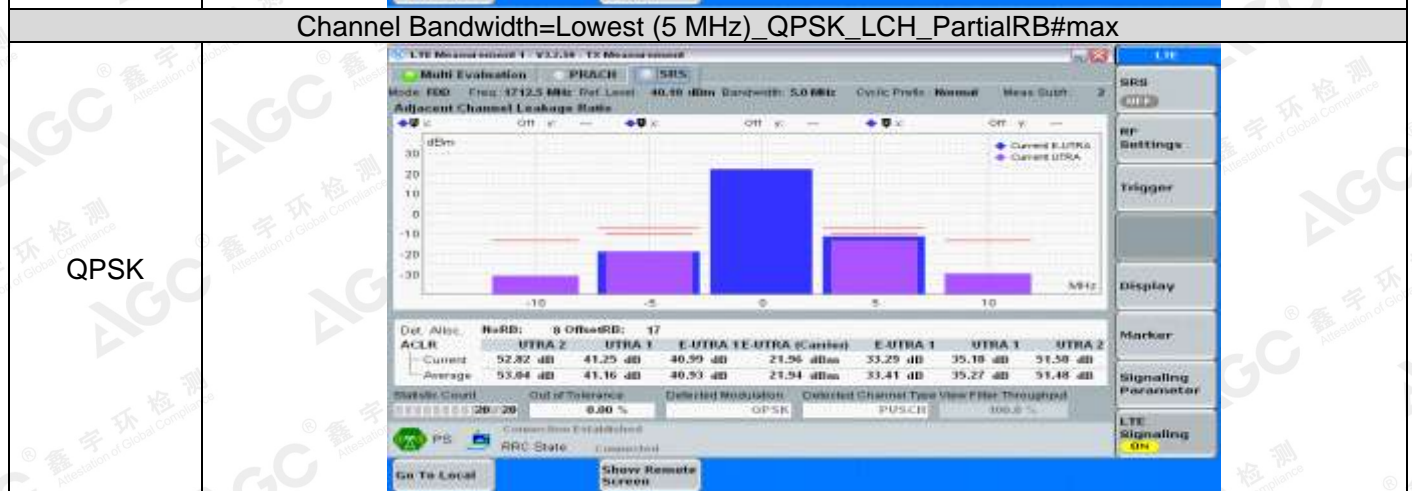
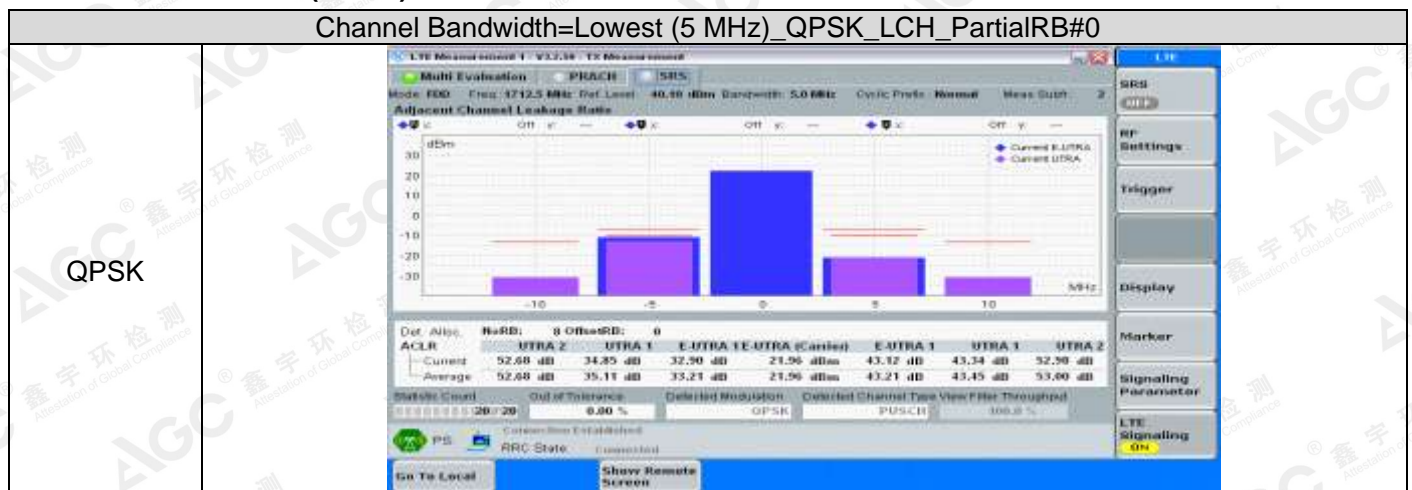
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Channel Bandwidth= (5 MHz)


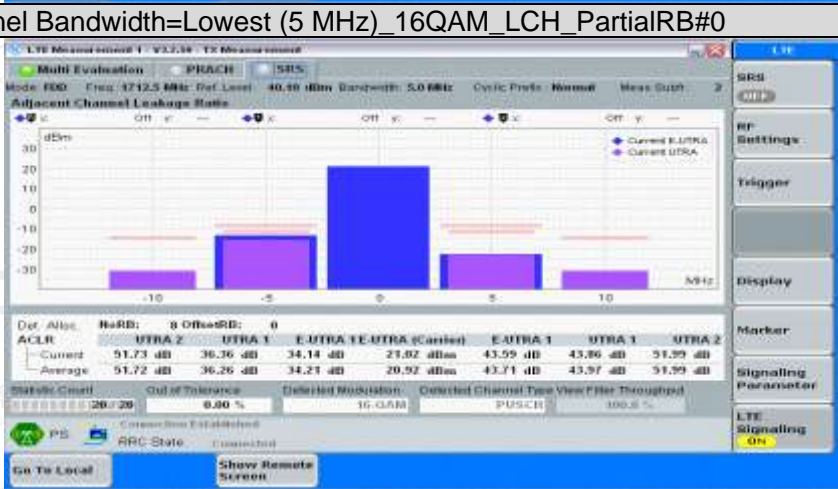
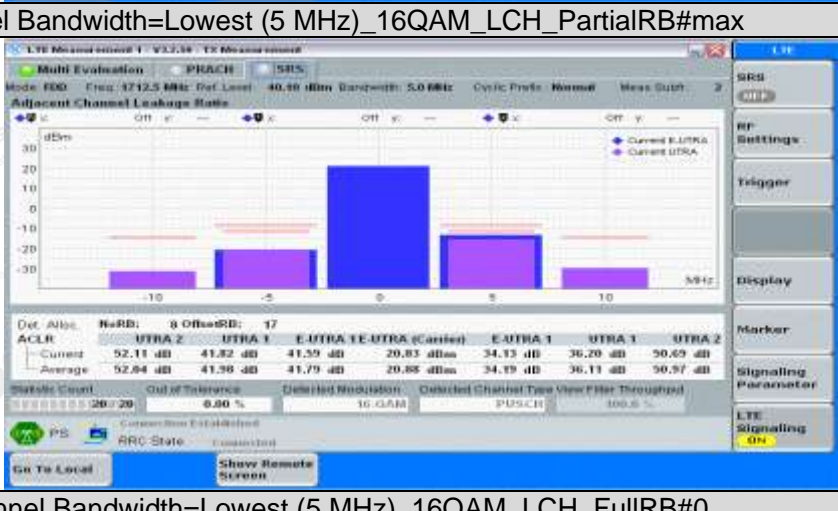


Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0

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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0</p>

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Channel Bandwidth= (10 MHz)
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0






Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max






Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0




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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>

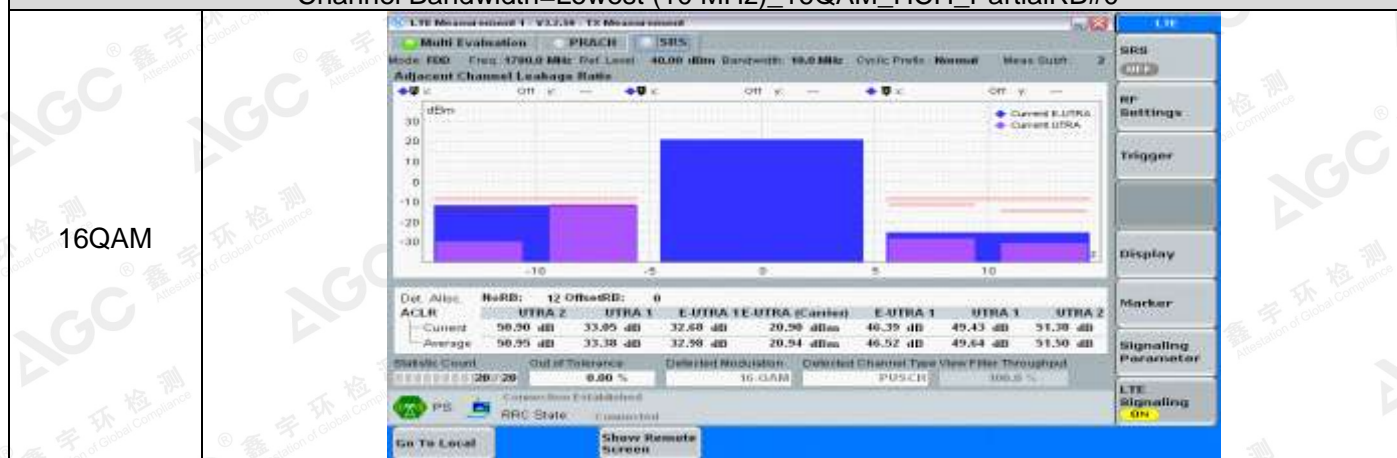
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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>

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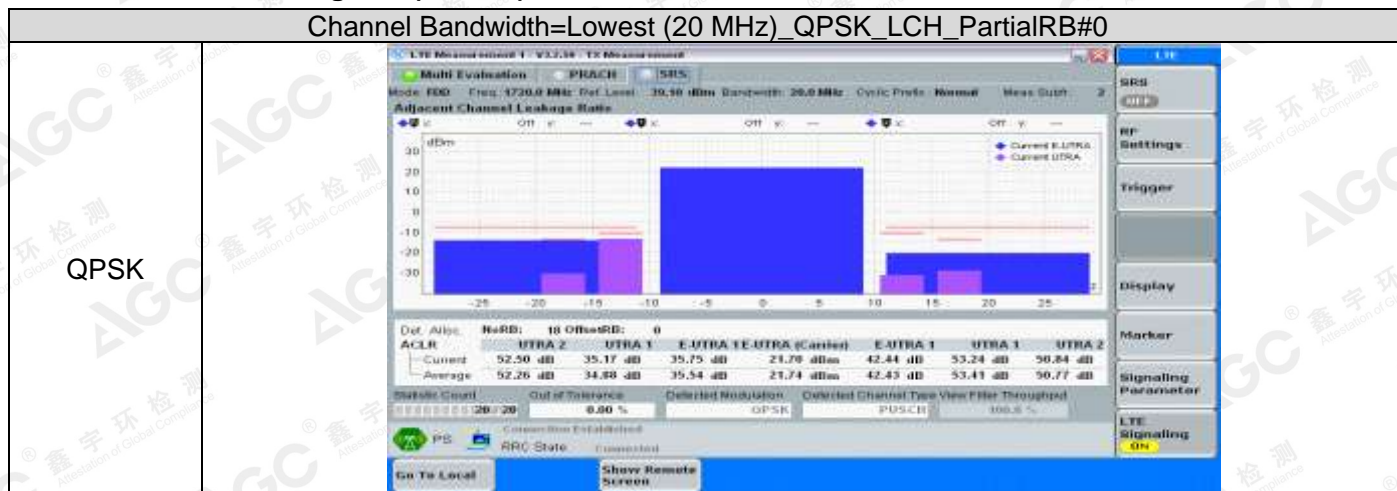


Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0





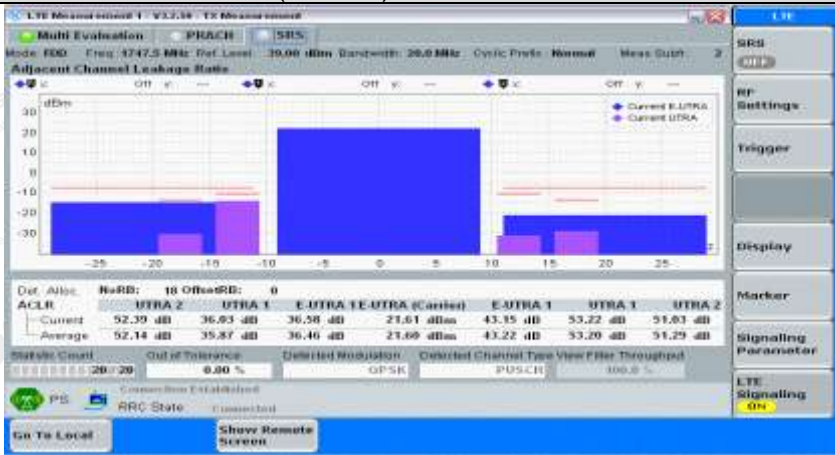
Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0



Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>

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QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0

QPSK

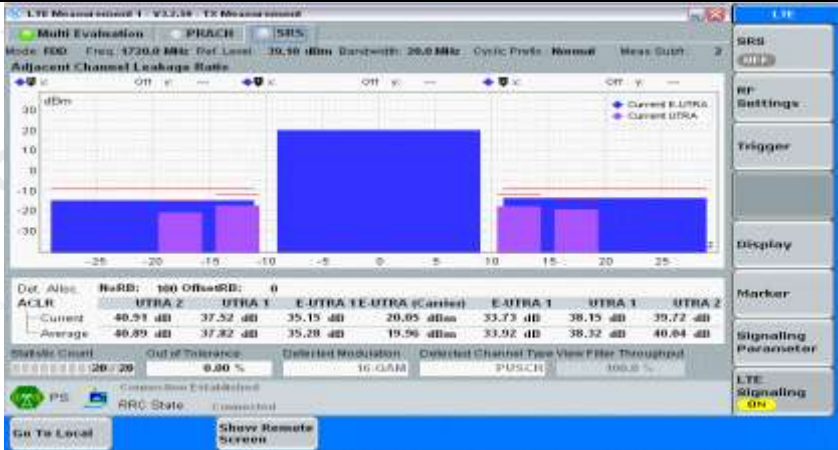

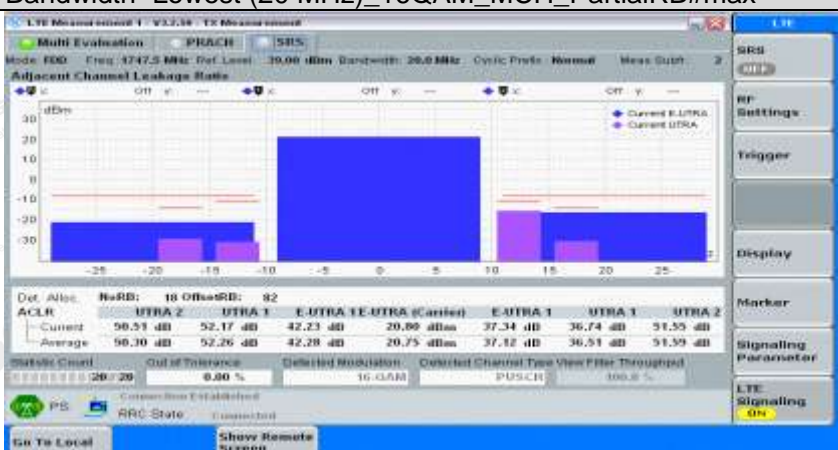


Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0

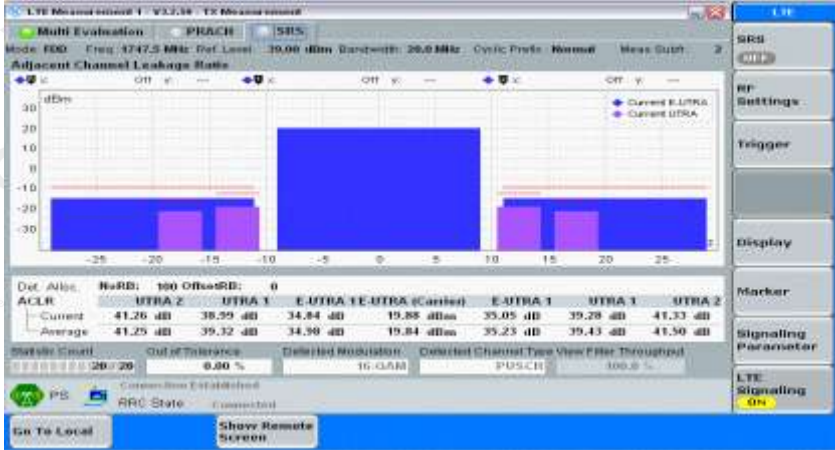


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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>

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5. Transmitter Spurious Emissions

Test Result

NTVN

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
NTNV	QPSK	1.4 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
NTNV	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
NTNV	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

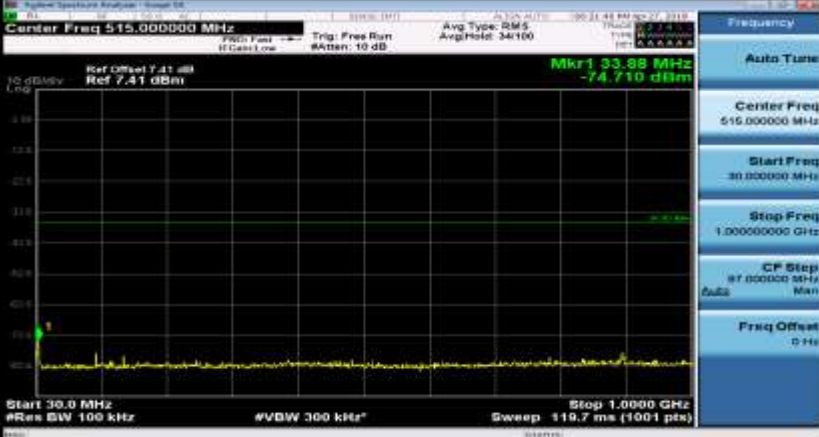
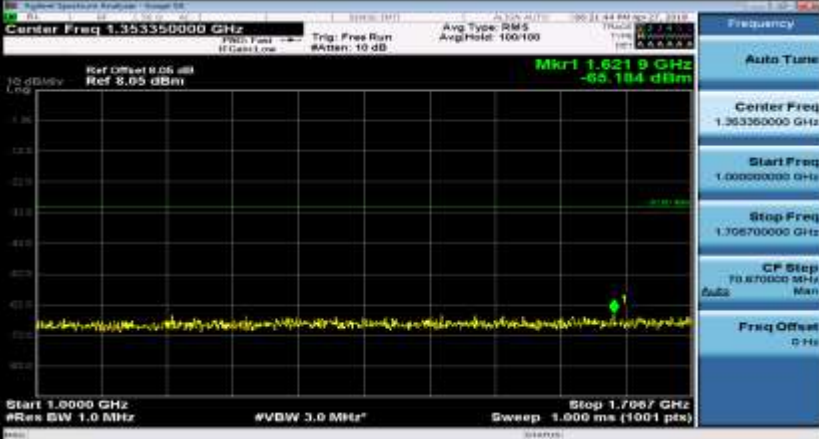
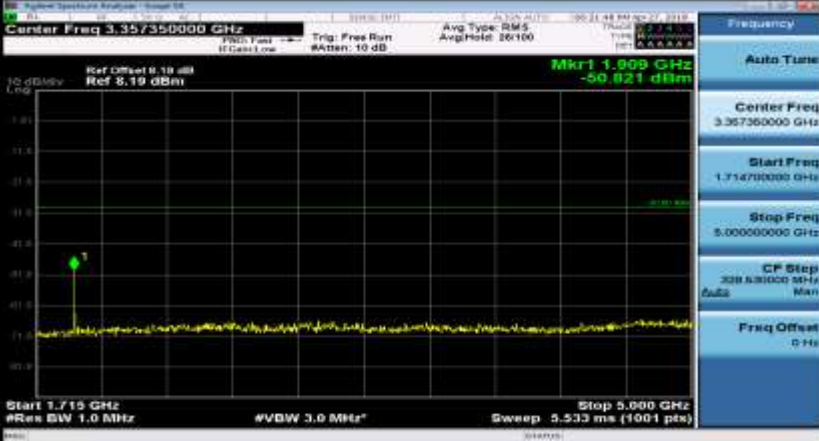
Test Graphs

NTNV


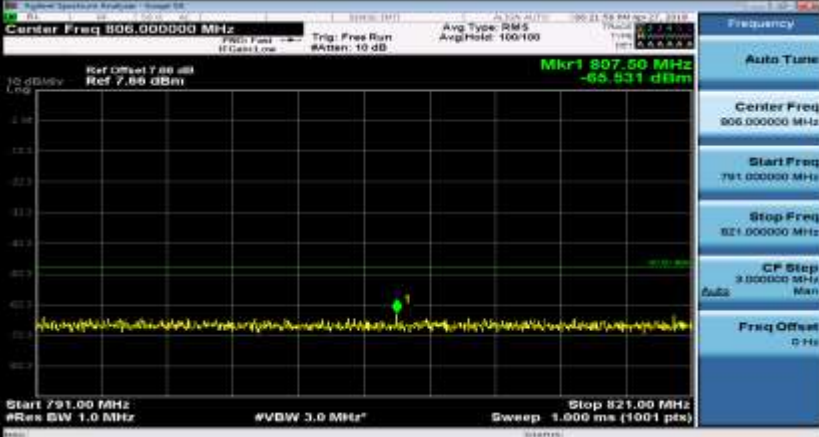
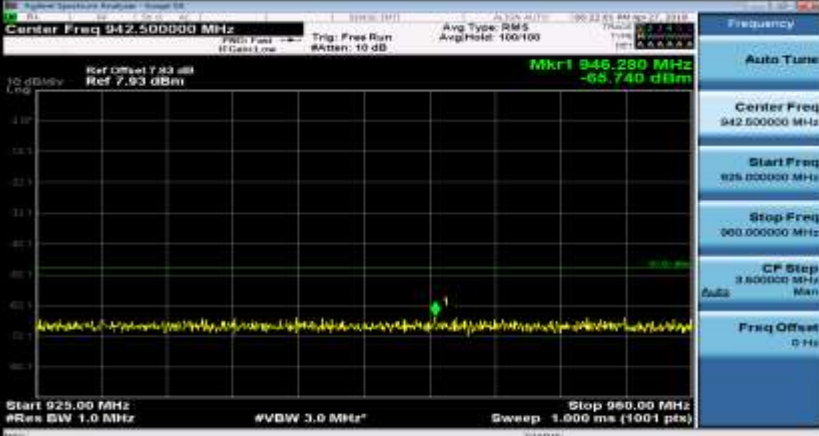
Channel Bandwidth=Lowest (1.4 MHz)



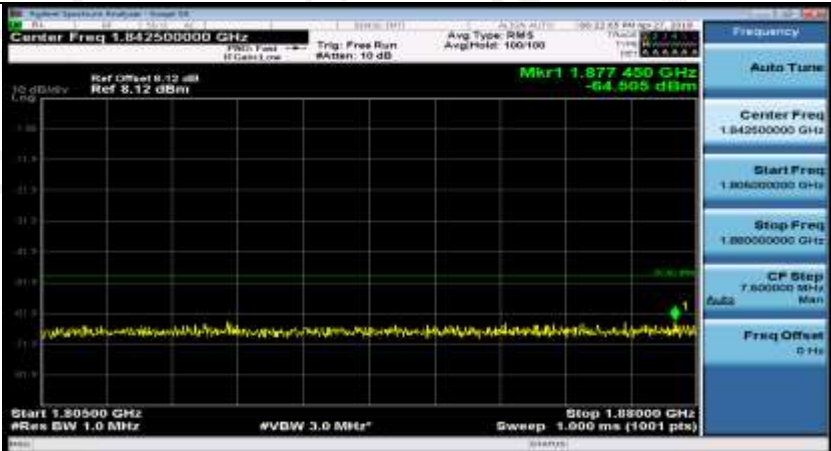
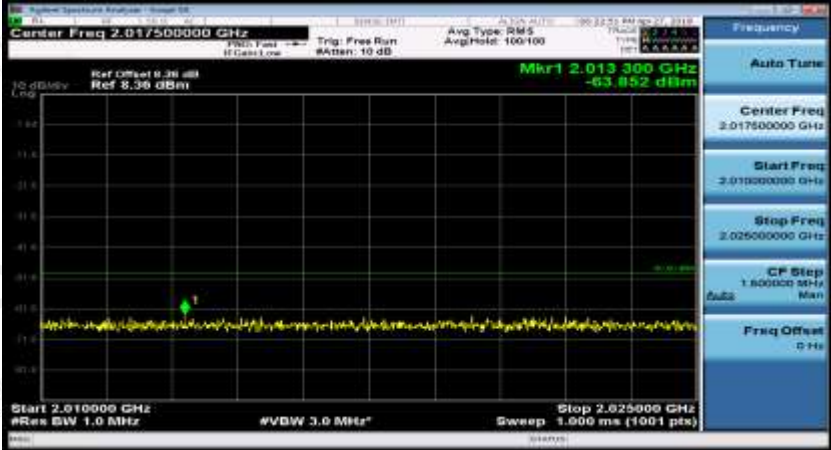
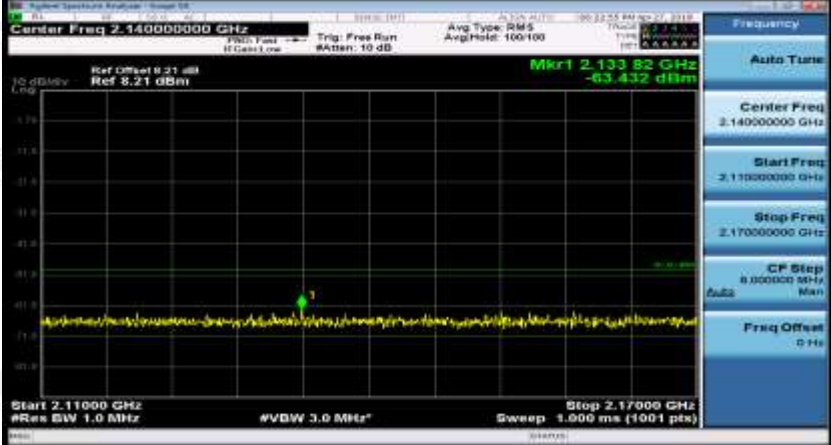
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General			
General			
General			

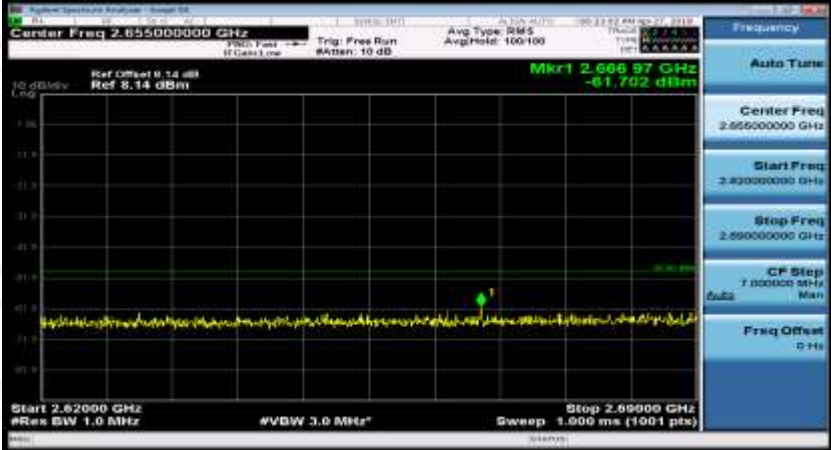
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General			
Co-existence			
Co-existence			

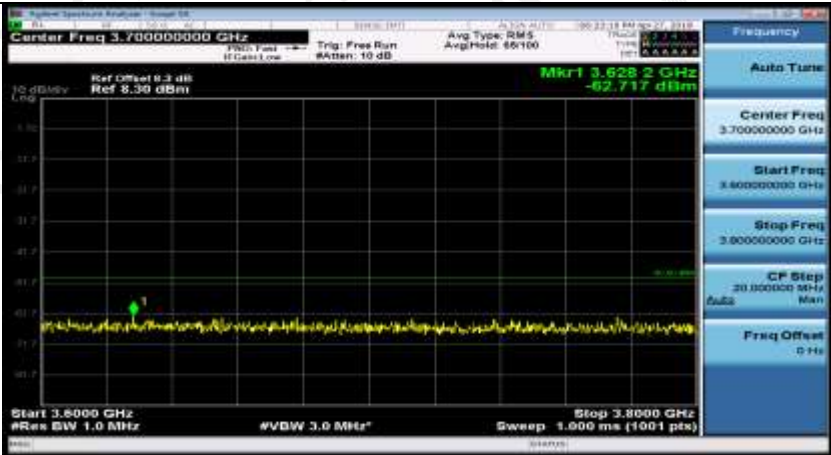
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Co-existence	
Co-existence	
Co-existence	

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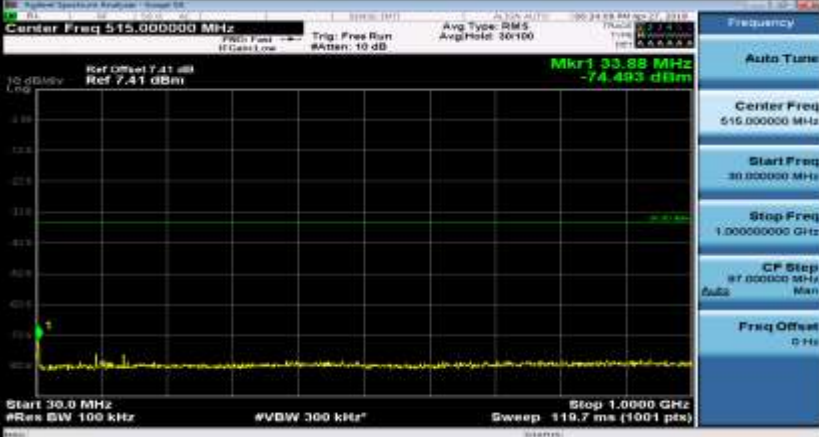
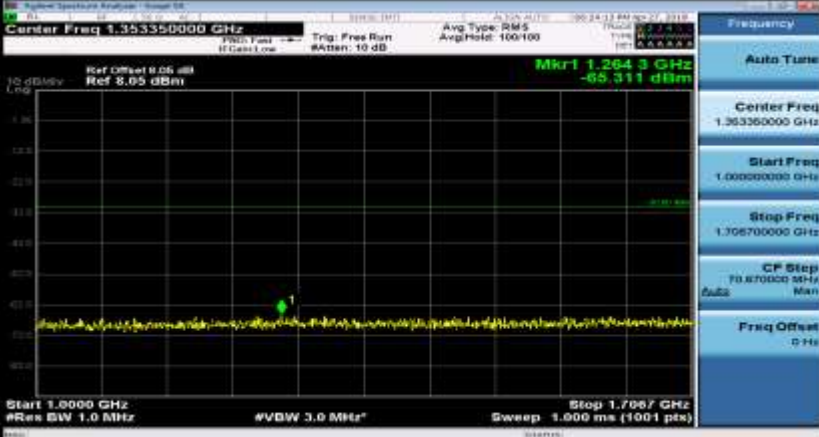

Co-existence	
Co-existence	
Co-existence	

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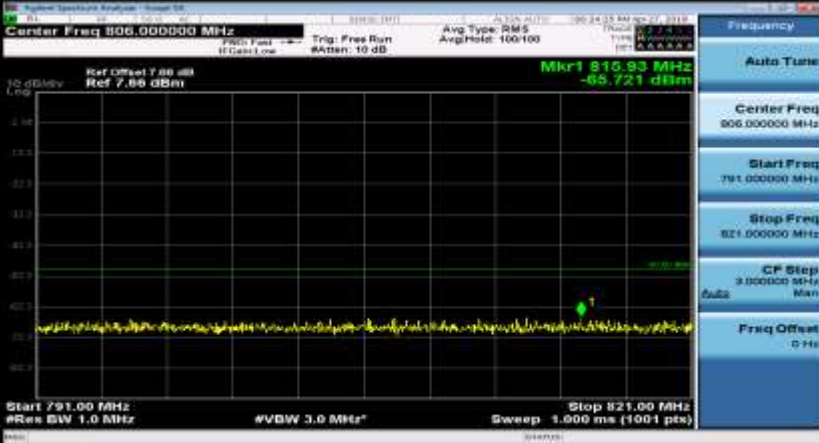
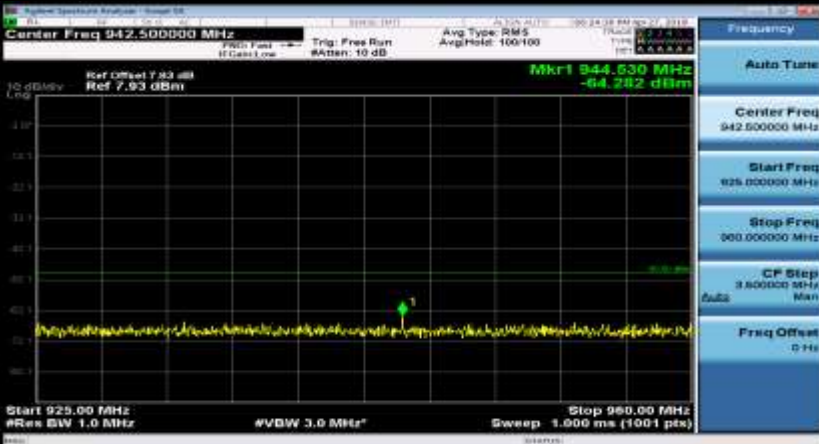
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_1RB#max	
General	
General	

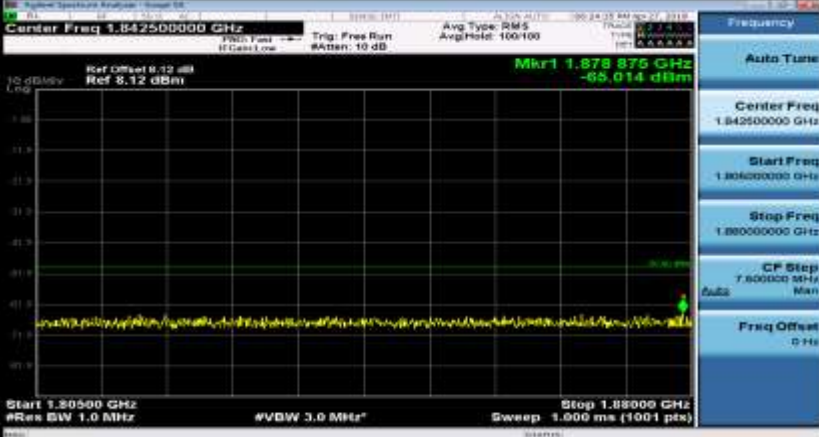
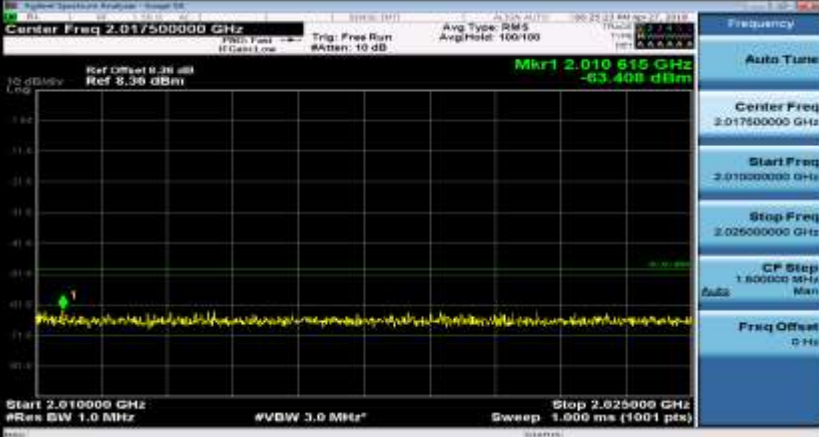

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General			
General			
General			

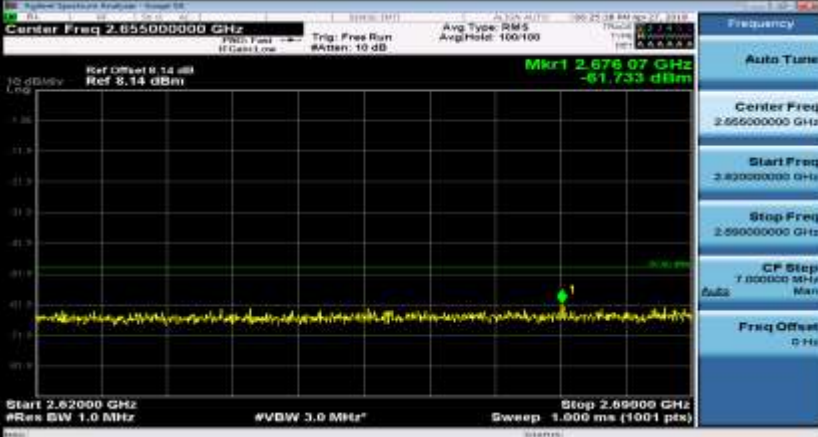
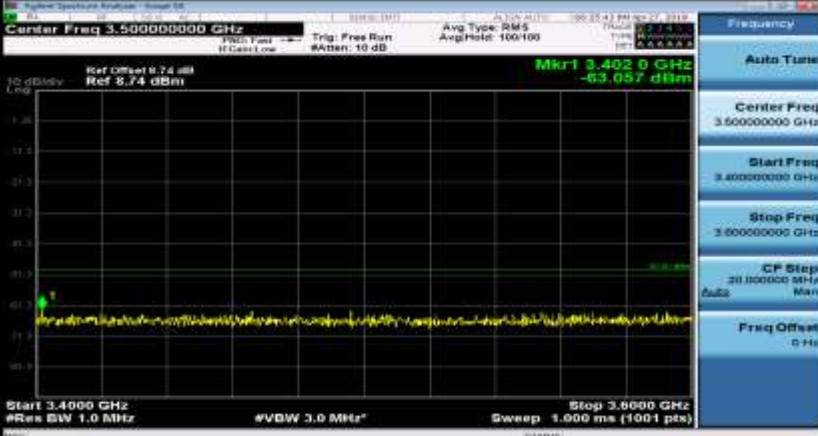
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General			
Co-existence			
Co-existence			

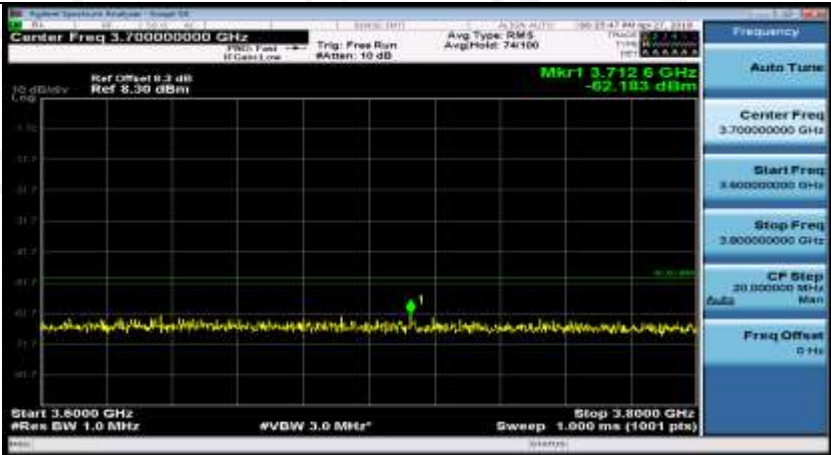
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Co-existence			
Co-existence			
Co-existence			

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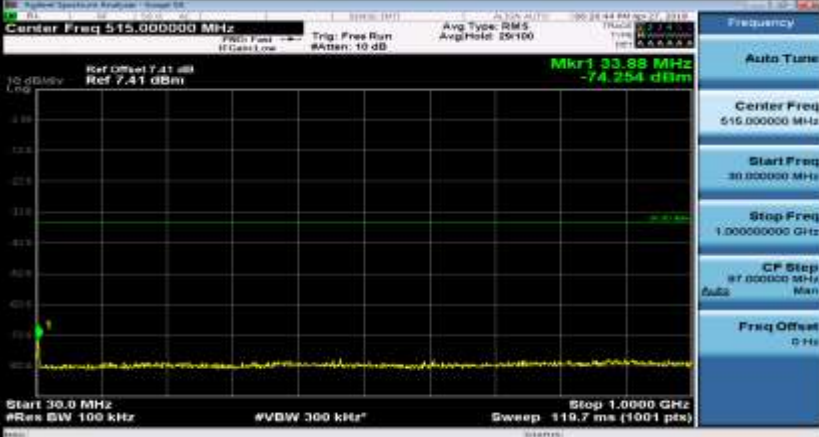
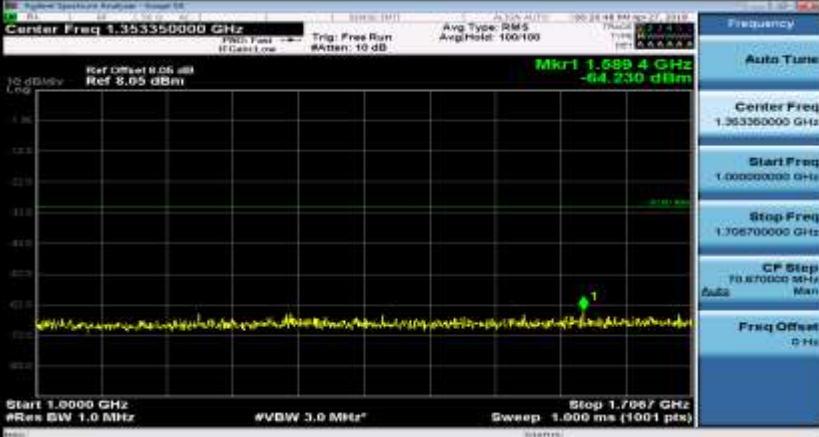

Co-existence			
Co-existence			
Co-existence			

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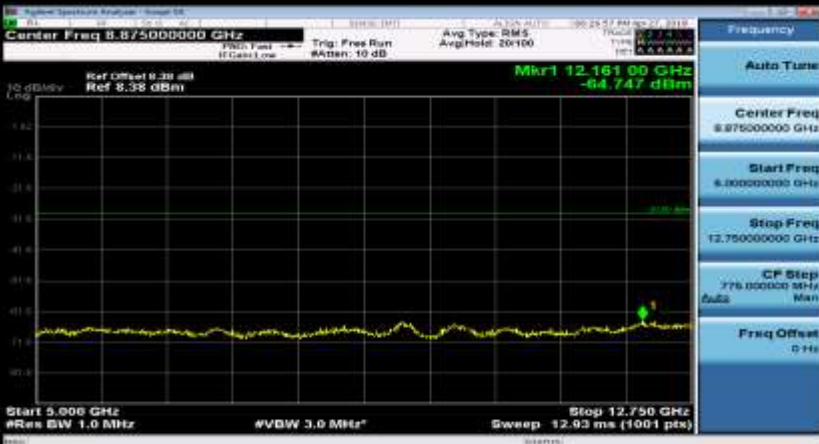
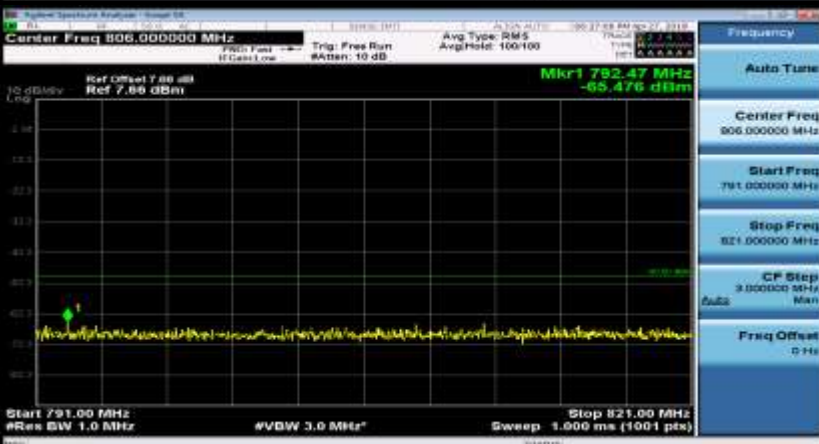
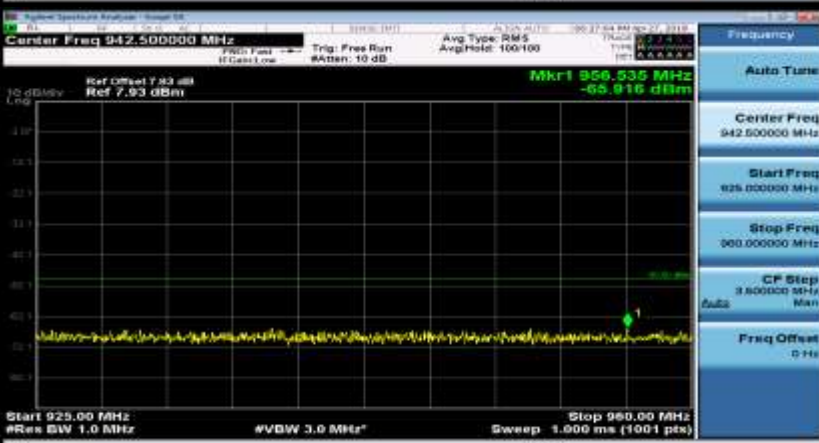
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullIRB#0	
General	
General	

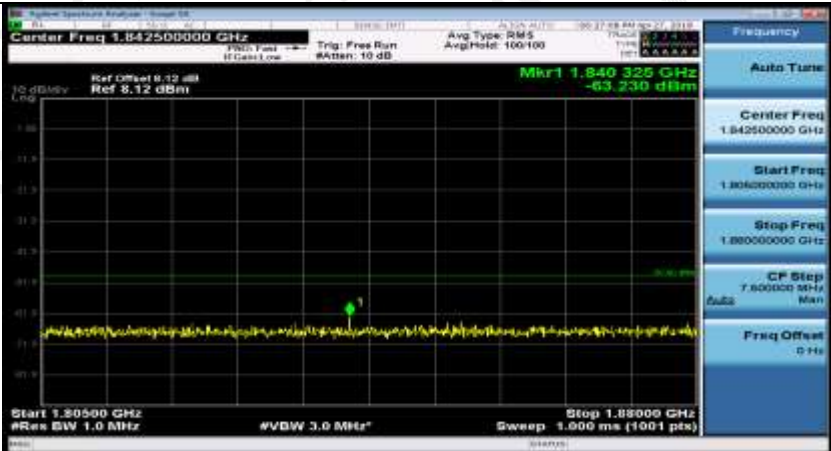
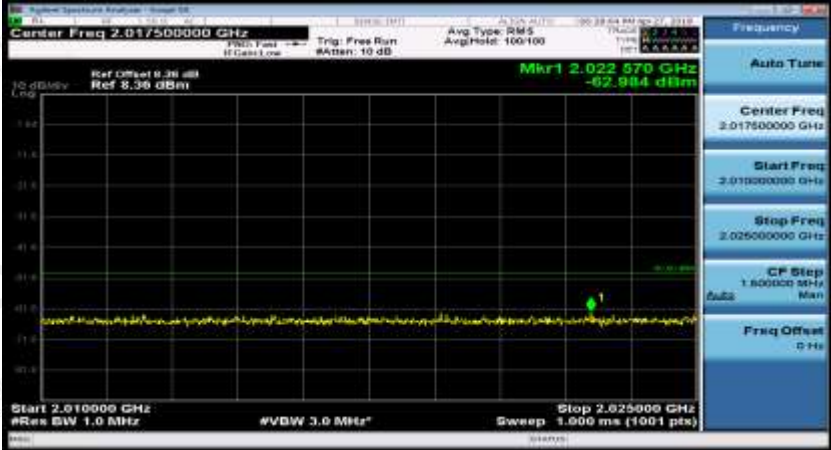
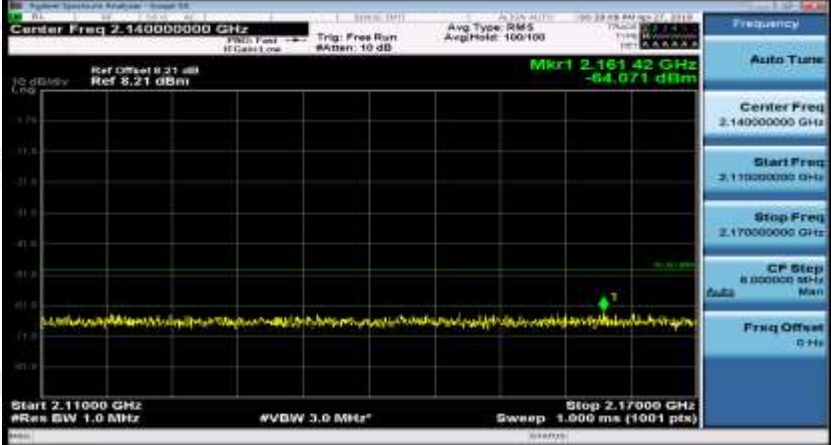
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General			
General			
General			

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General			
Co-existence			
Co-existence			

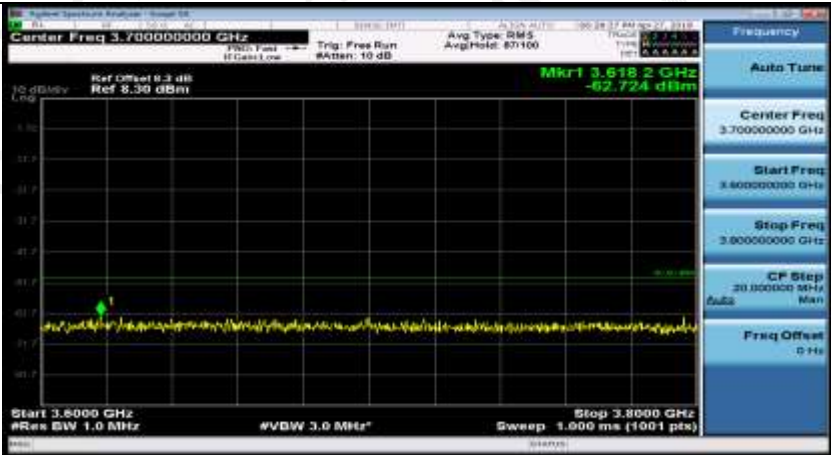
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Co-existence	
Co-existence	
Co-existence	

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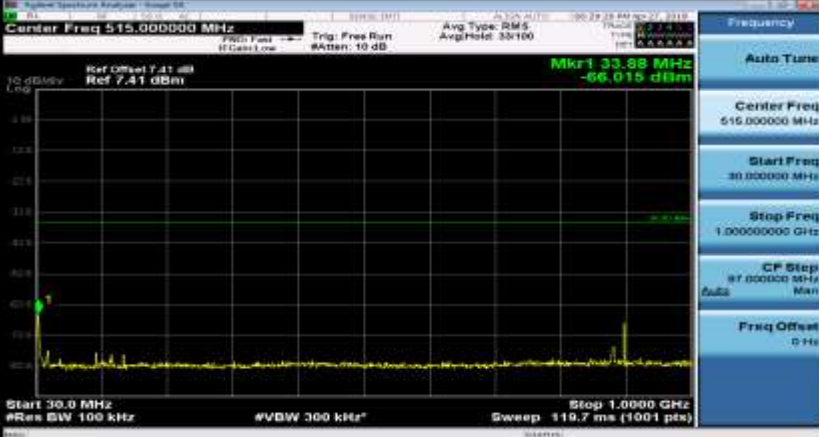
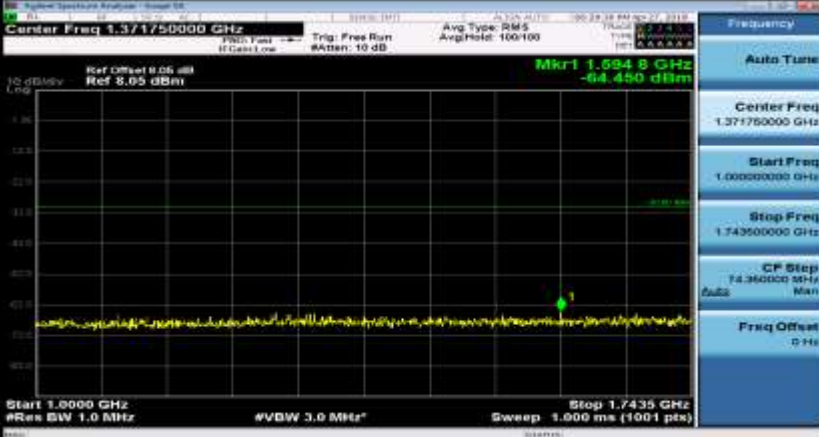
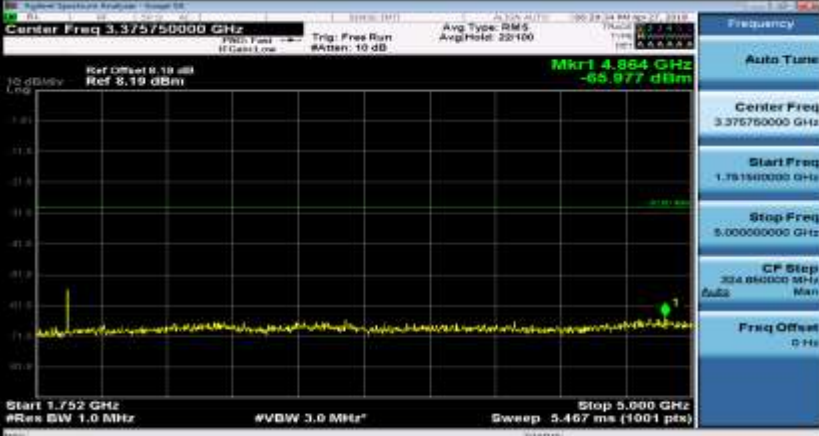
Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#0	
General	
General	

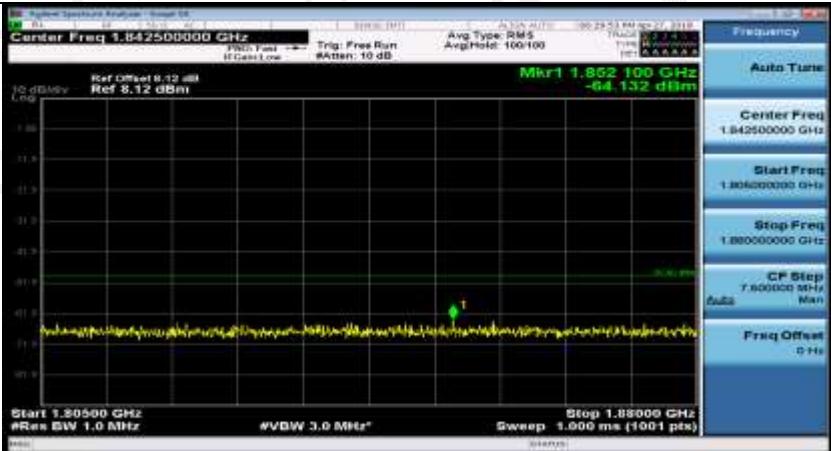
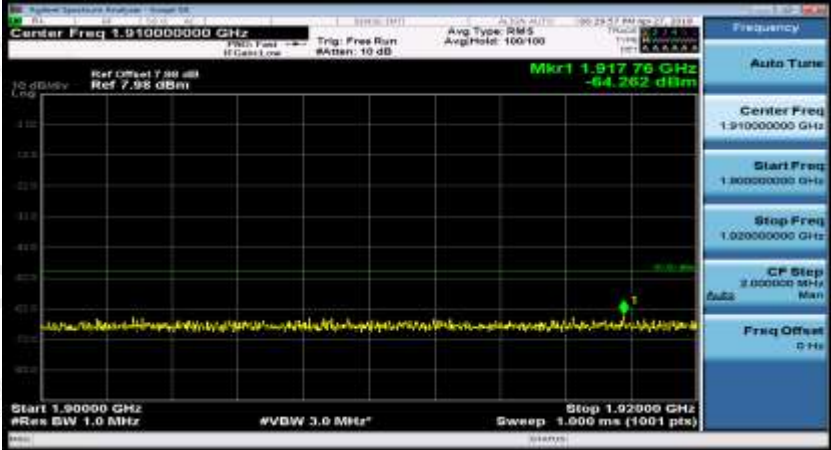
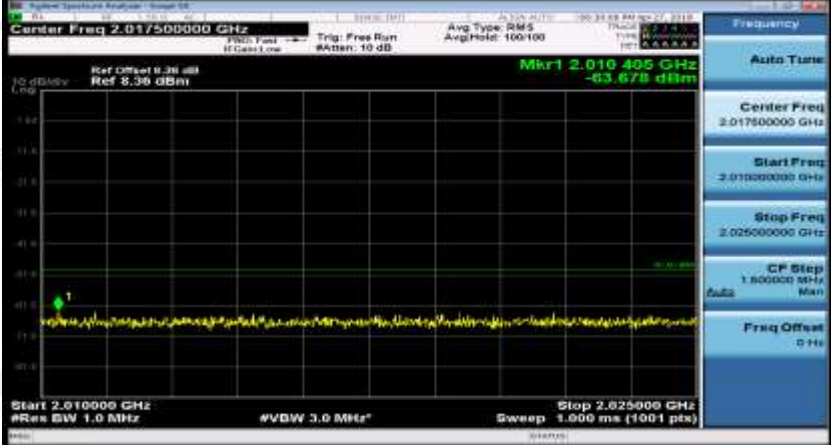
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General			
General			
General			

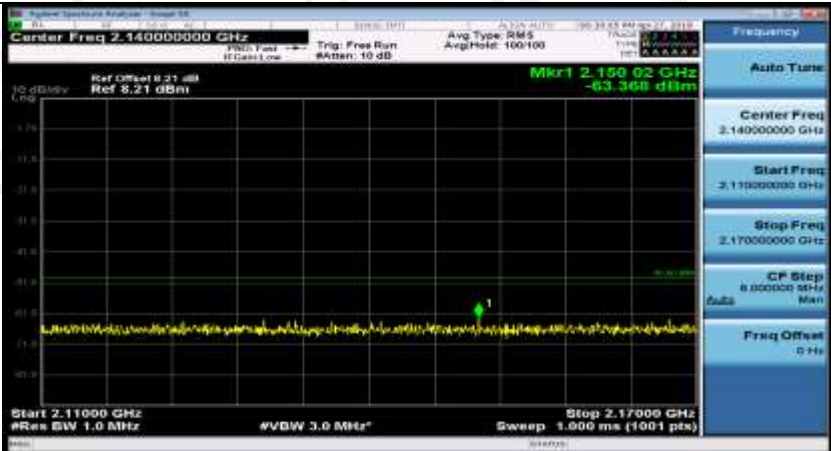
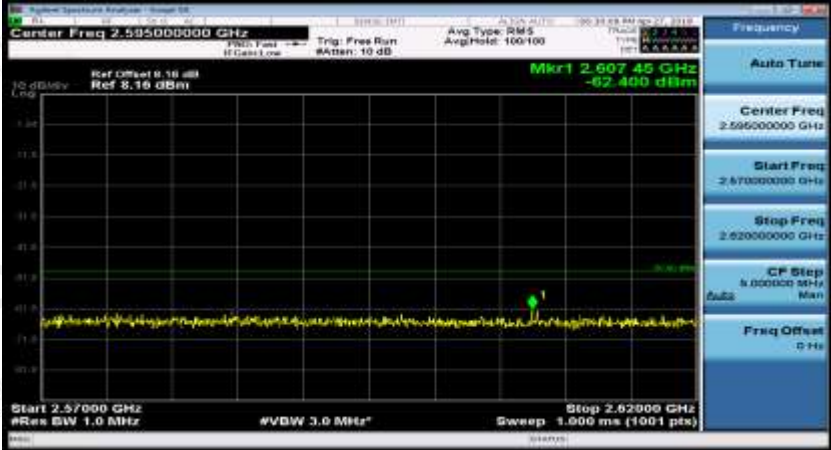
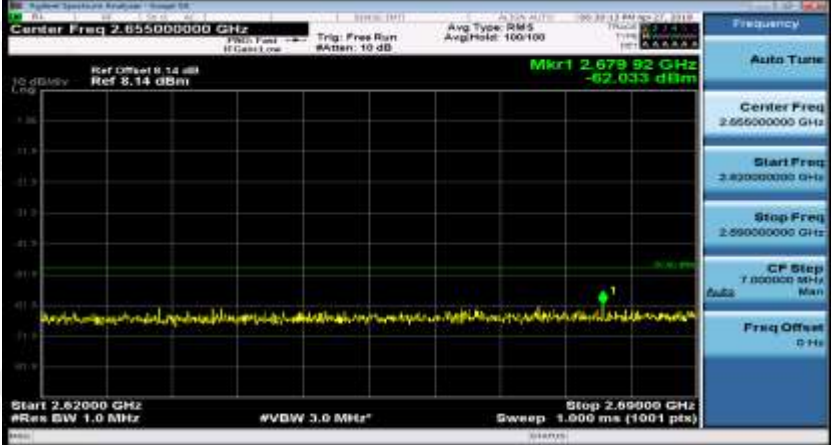
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General			
Co-existence			
Co-existence			

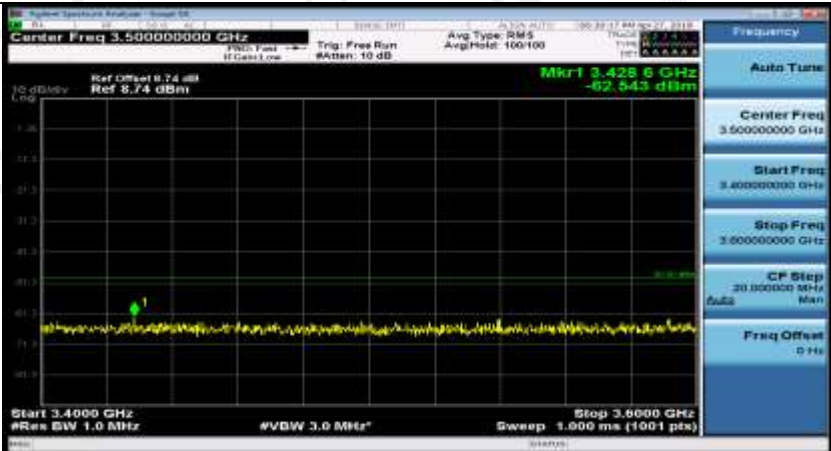
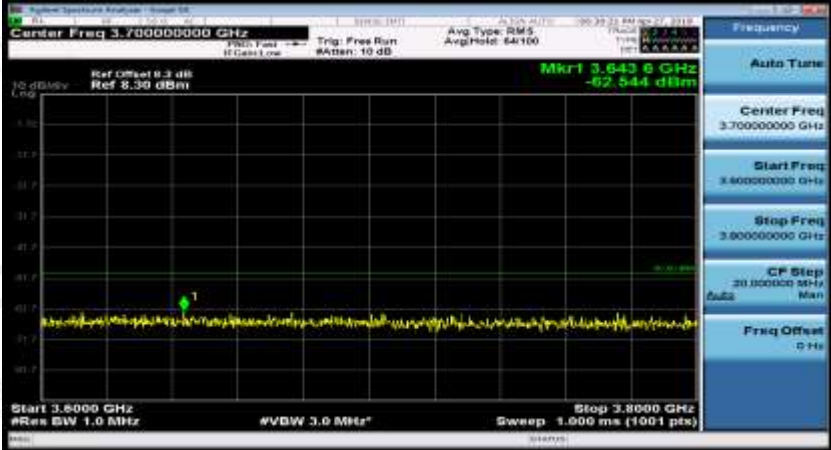
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Co-existence		
Co-existence		
Co-existence		

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Co-existence	
Co-existence	
Co-existence	


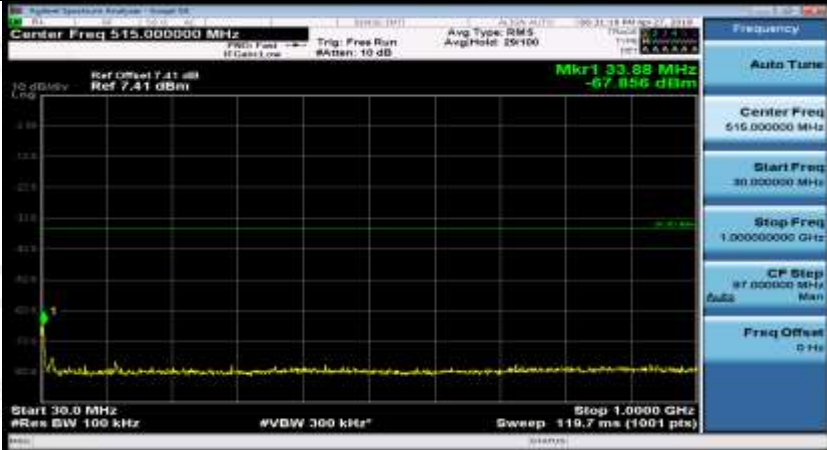
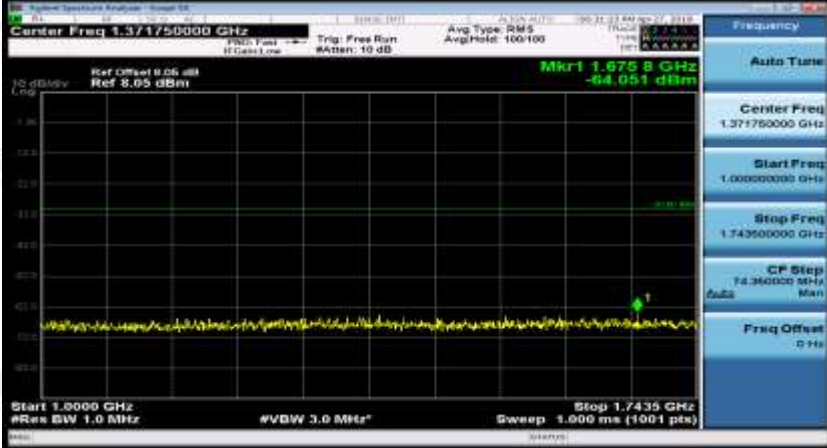
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Co-existence	
Co-existence	
Additional	NA



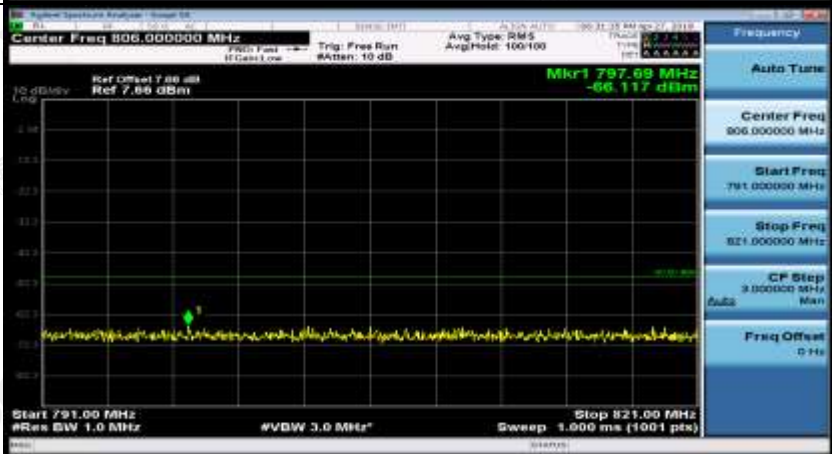
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#max

General	
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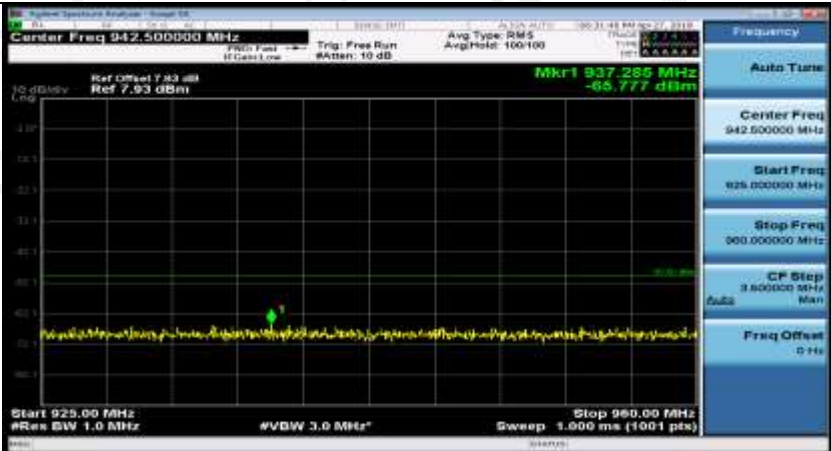
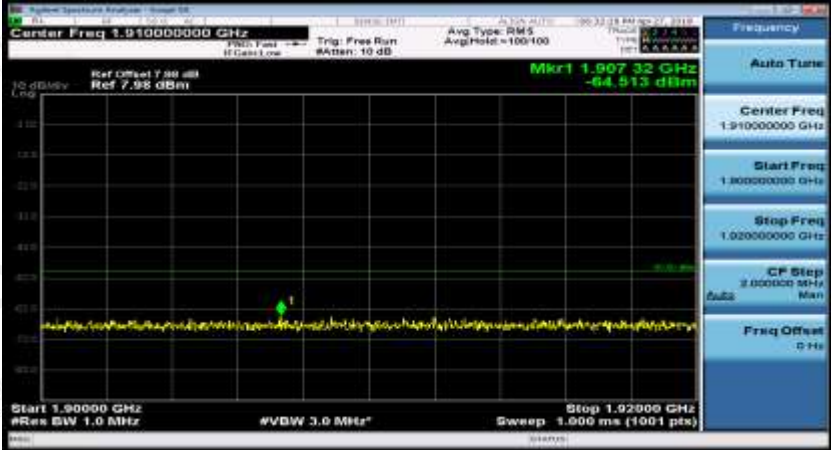
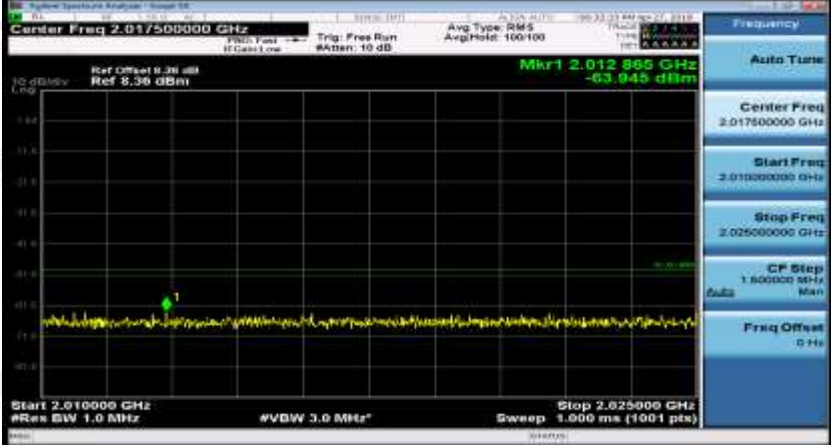
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General	
General	
General	

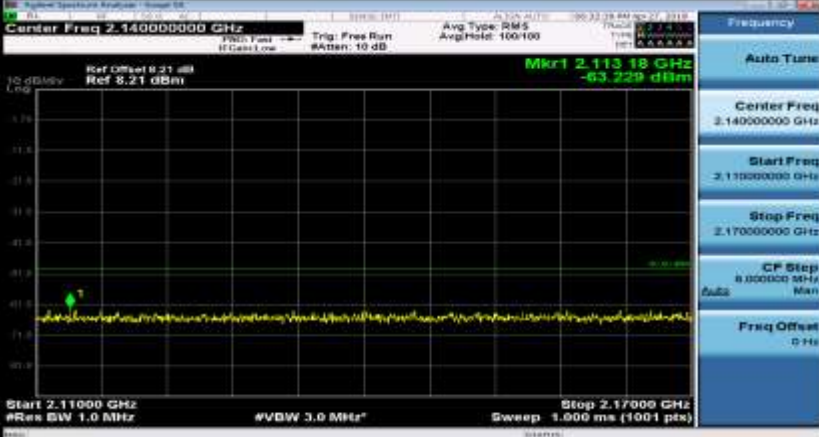
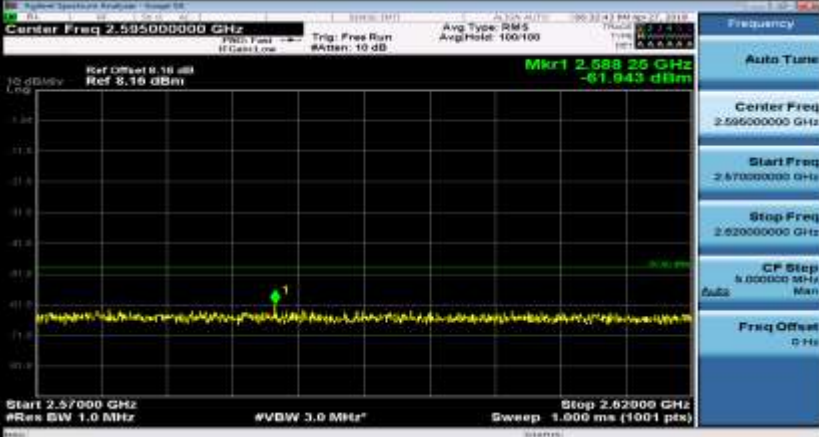
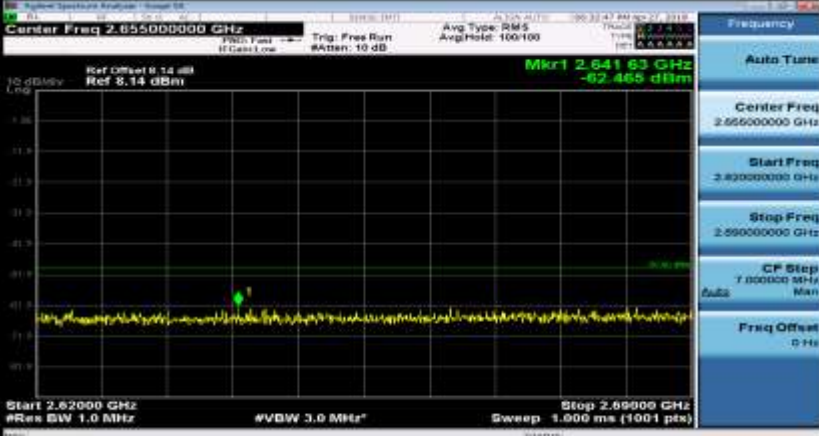
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General			
General			
Co-existence			

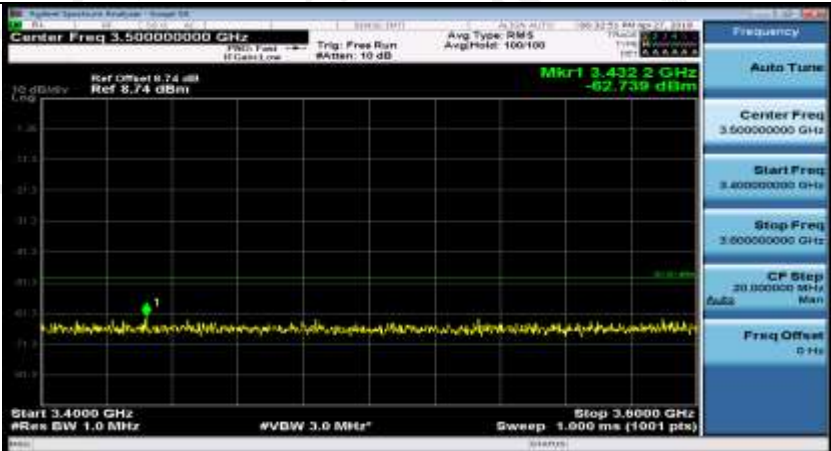
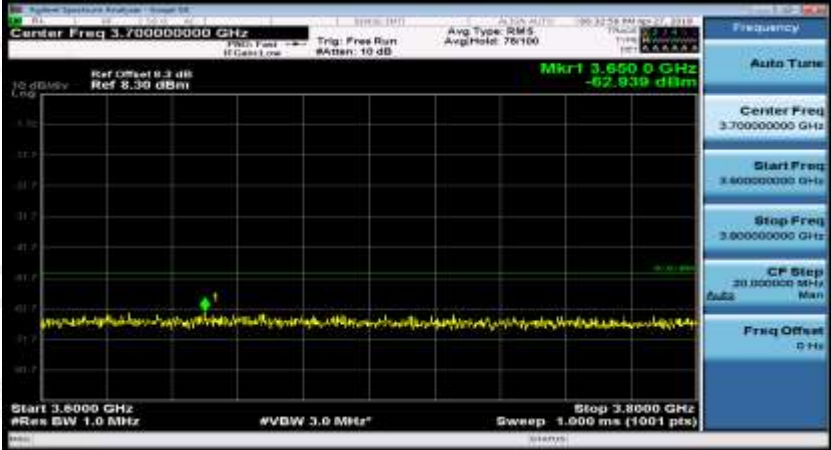
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			


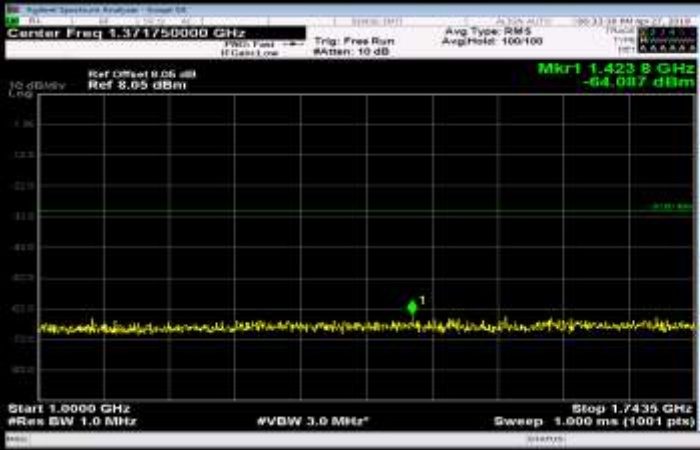
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Co-existence	
Co-existence	
Additional	NA

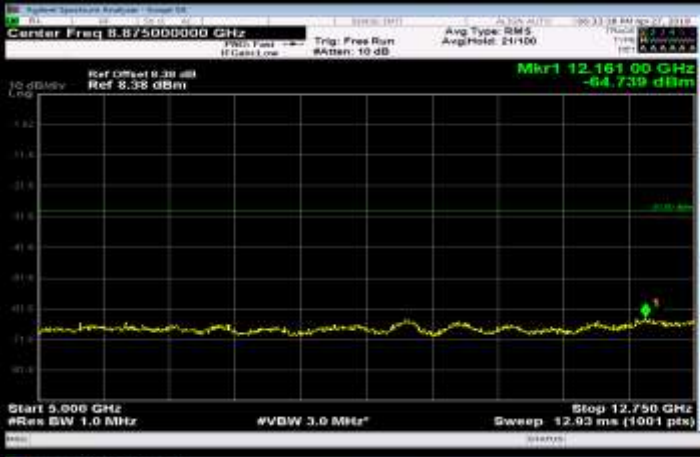
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0

General	
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General		
General		
General		

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.375750000 GHz</p> <p>Start Freq 1.791500000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 324.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 8.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

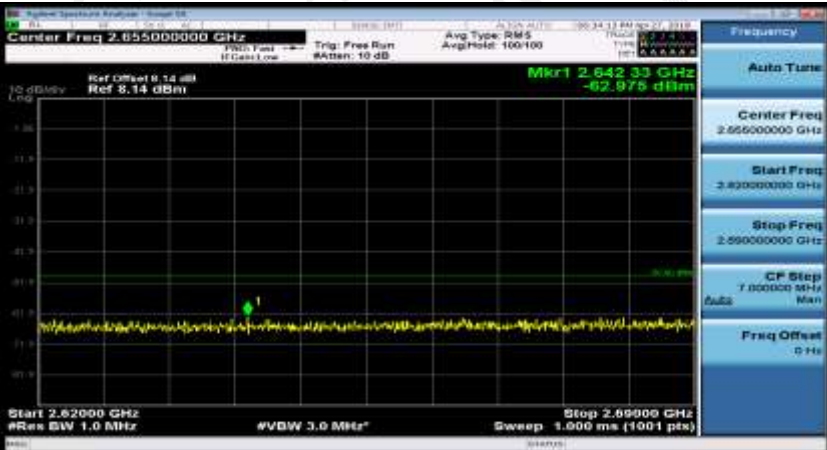
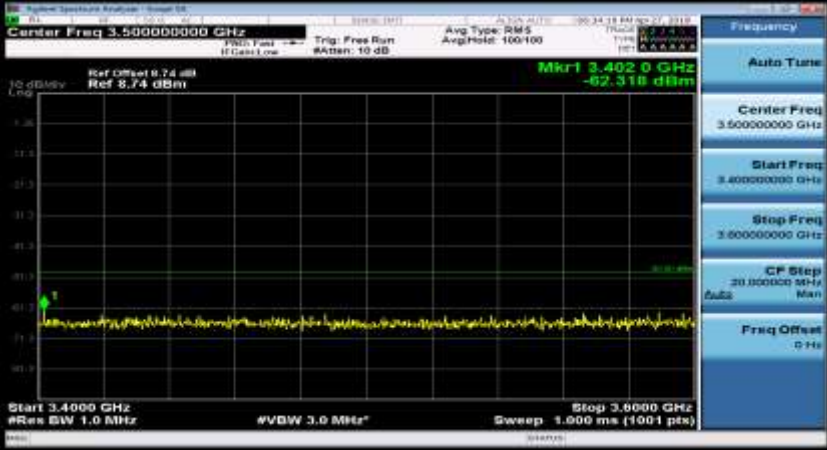

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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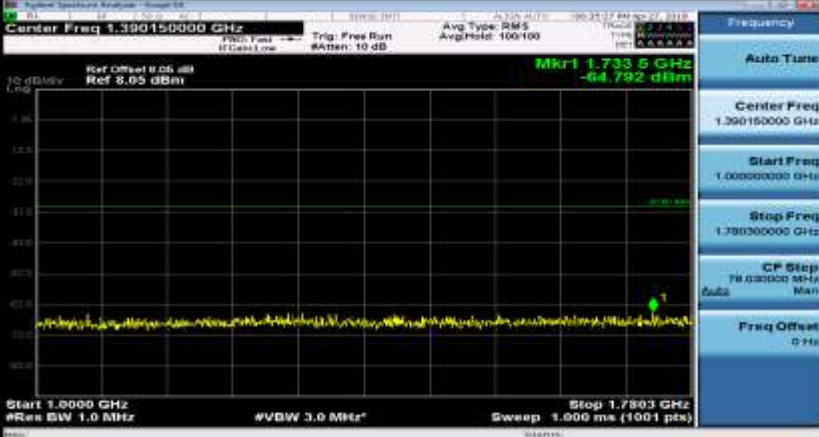
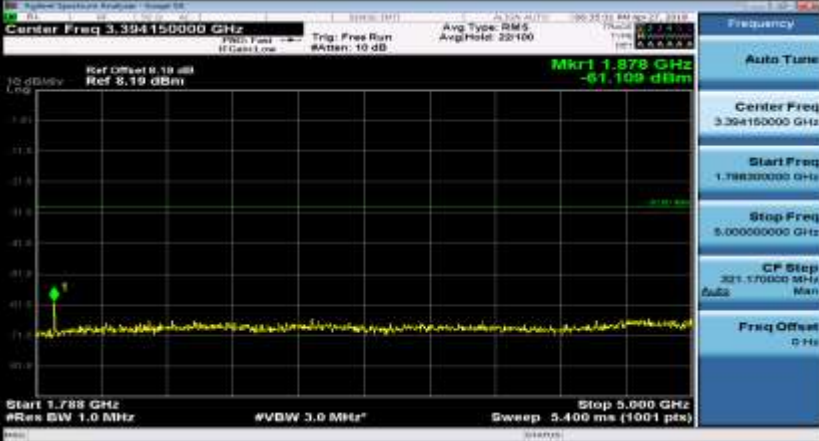
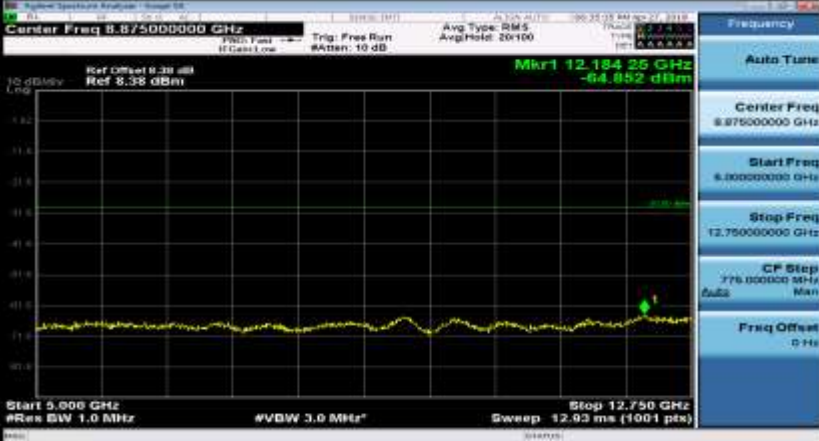
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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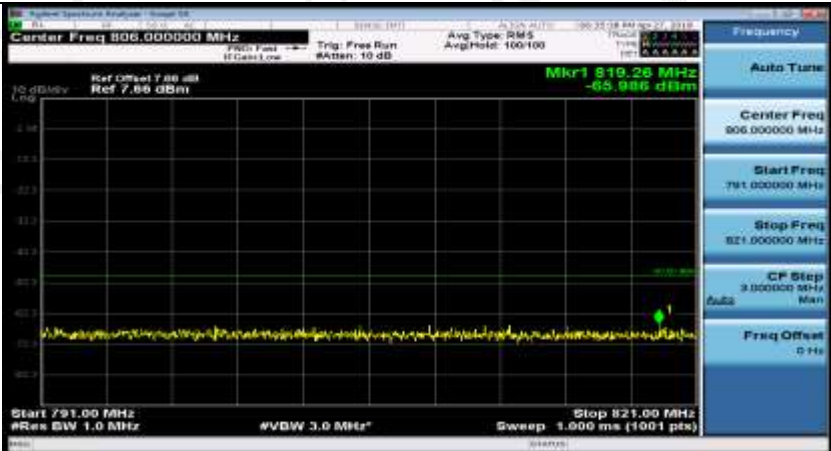
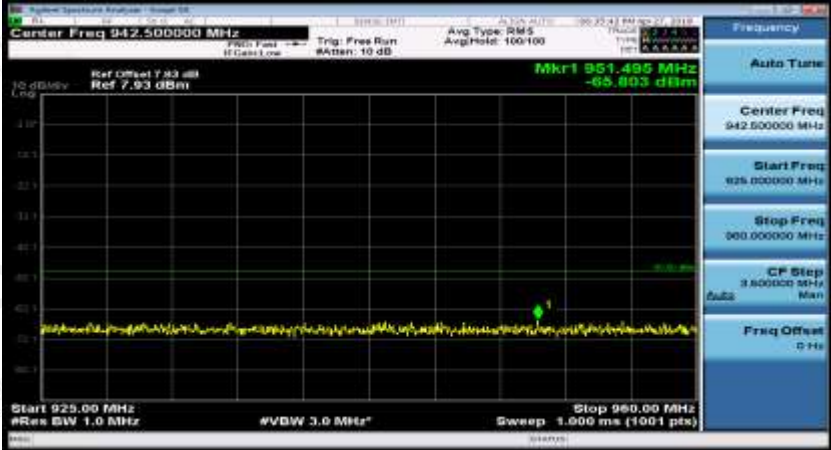
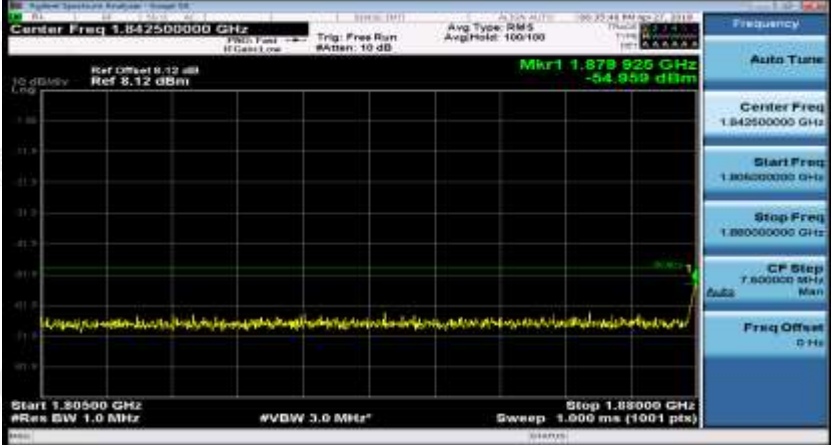
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#0

General		
General		
General		

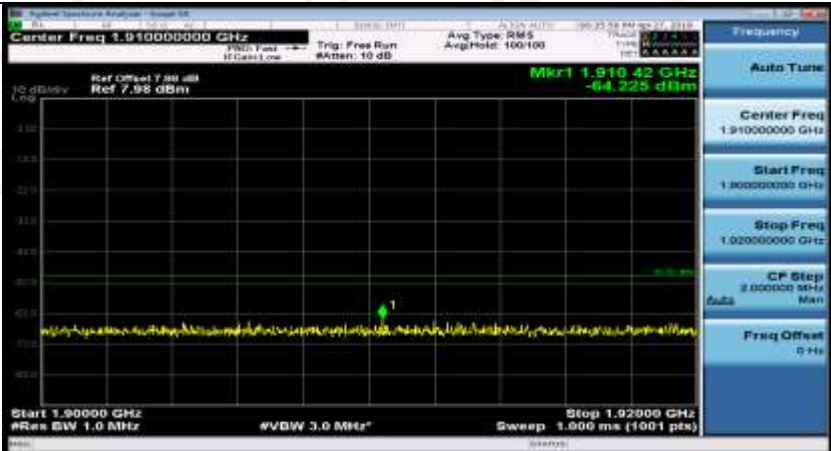
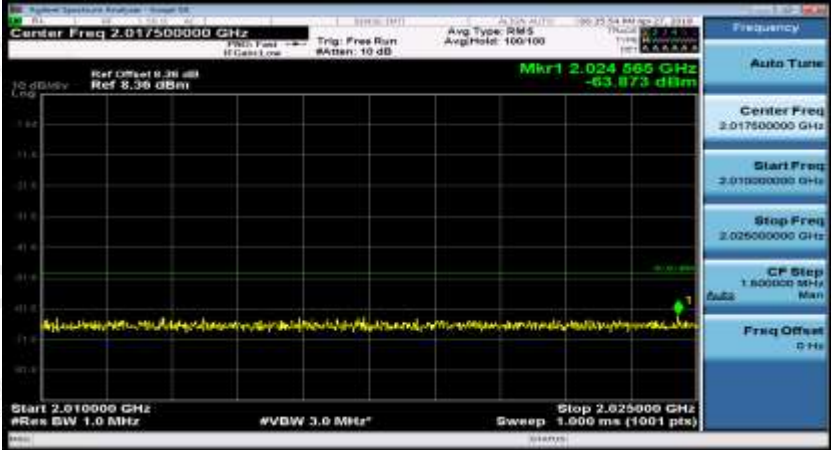
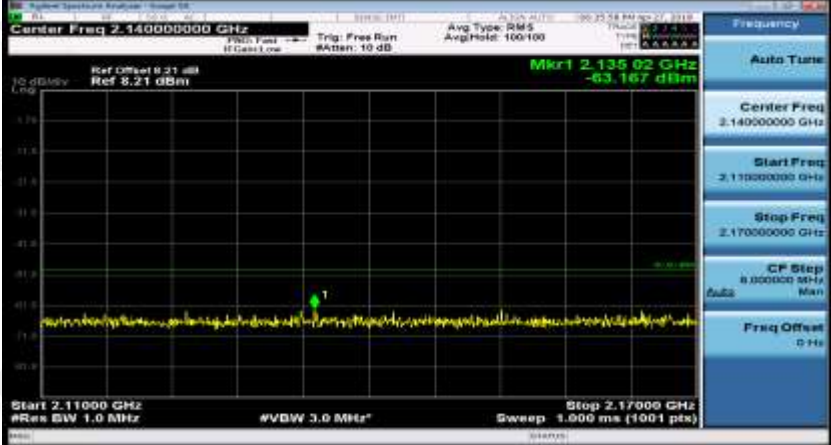
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General			
General			
General			

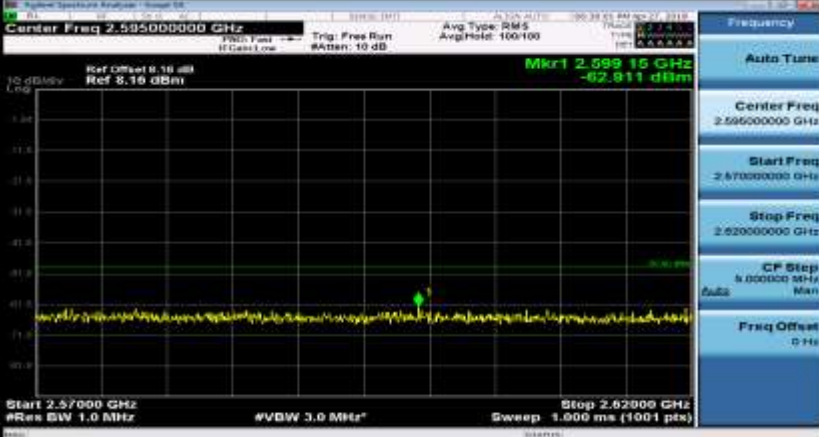
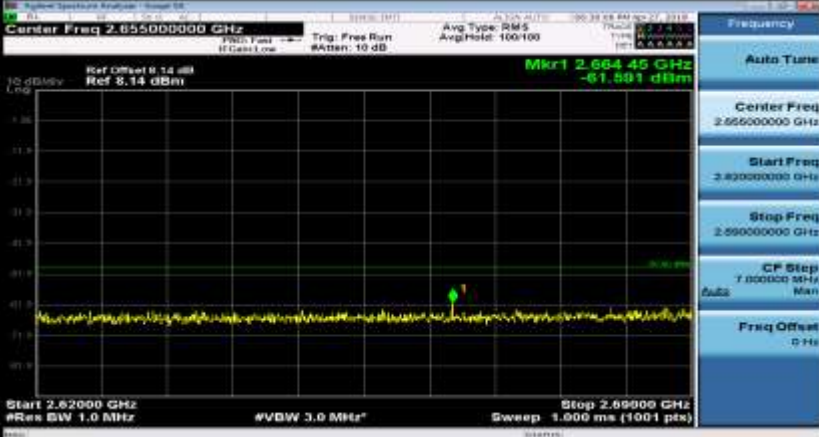
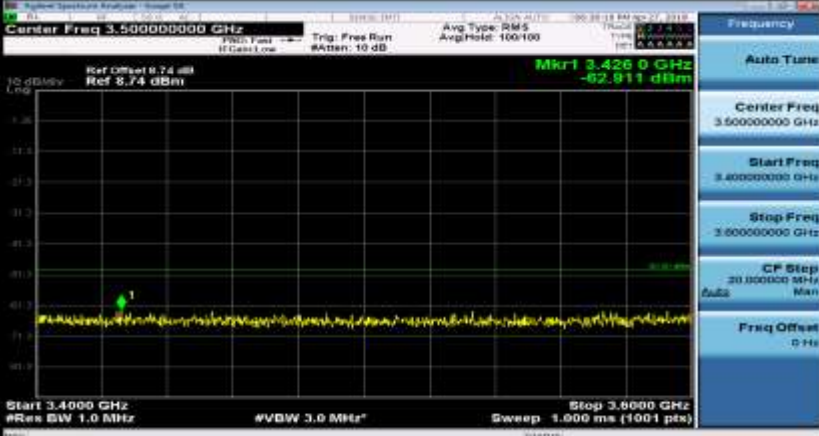
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Co-existence	
Co-existence	
Co-existence	

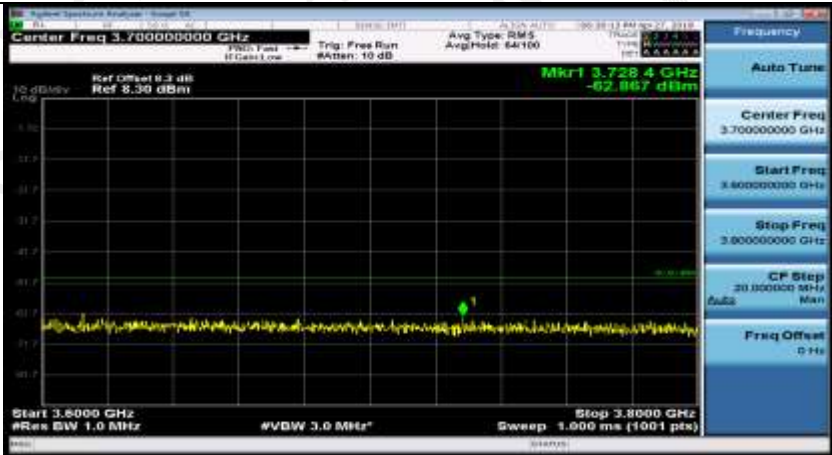
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

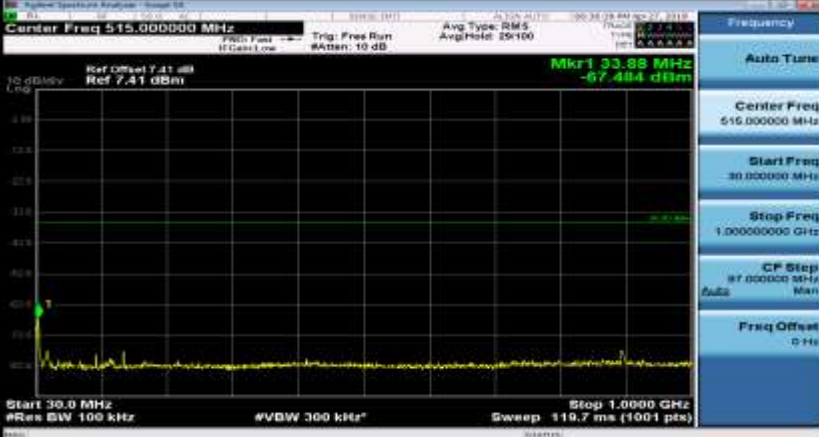
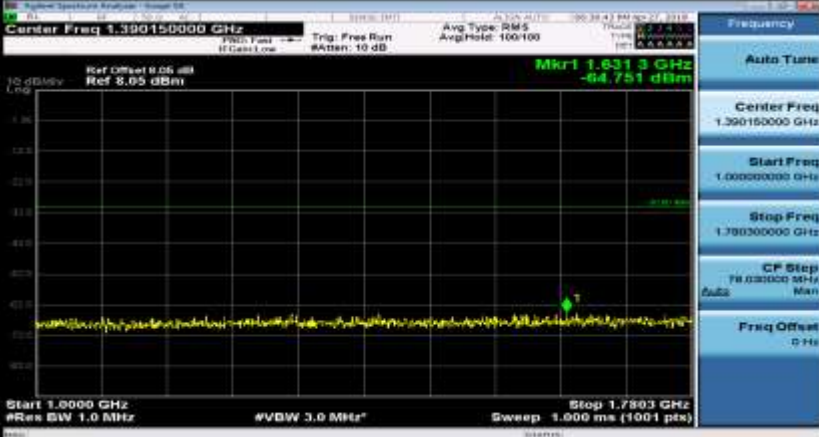

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Co-existence	
Additional	NA


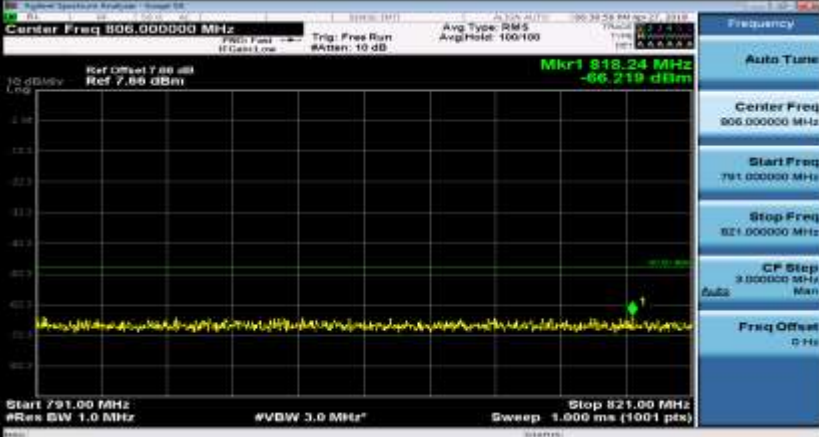
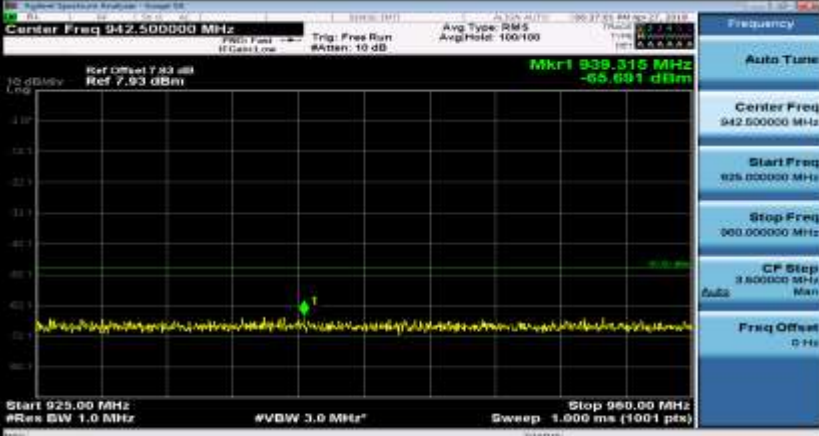
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#max

General	
General	

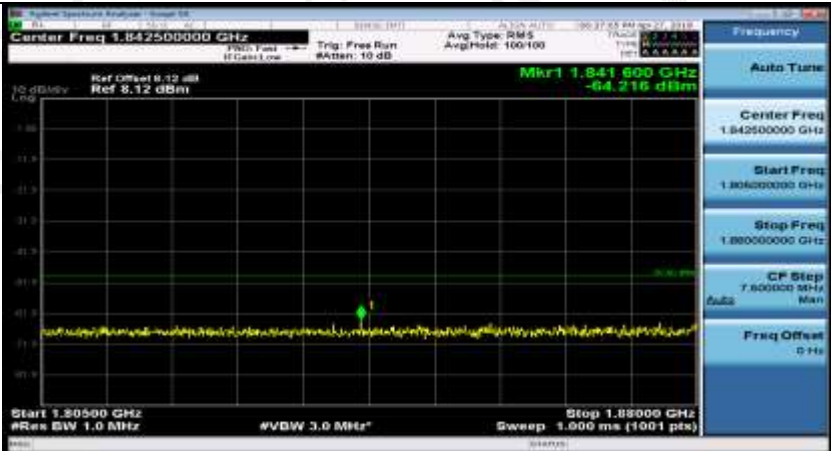

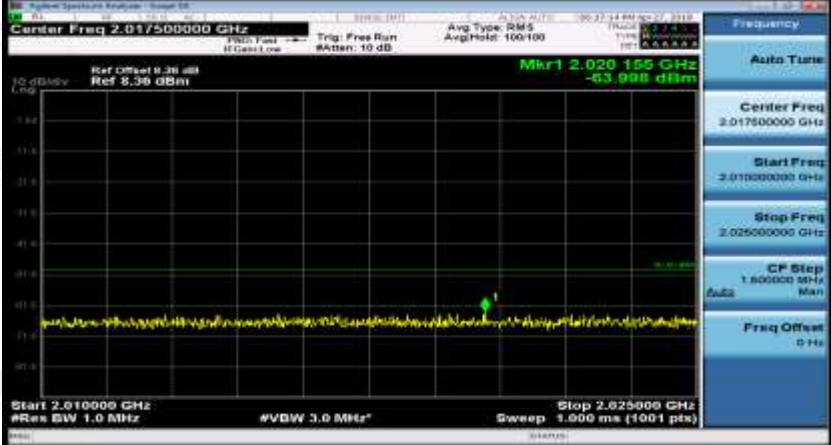
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General			
General			
General			

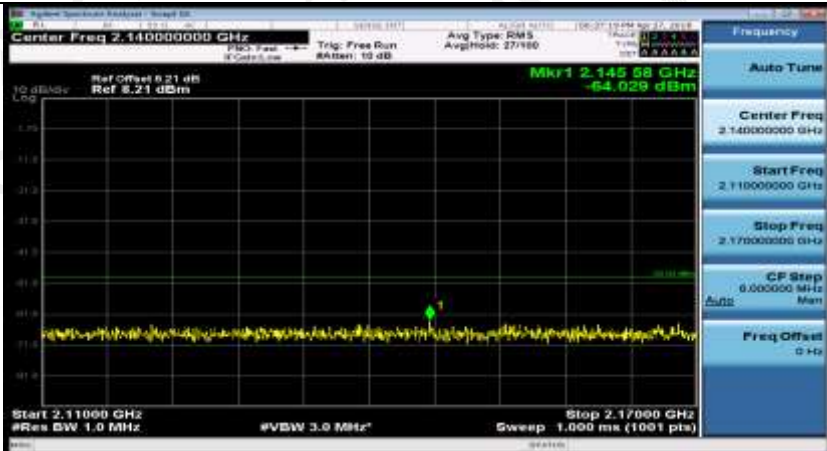
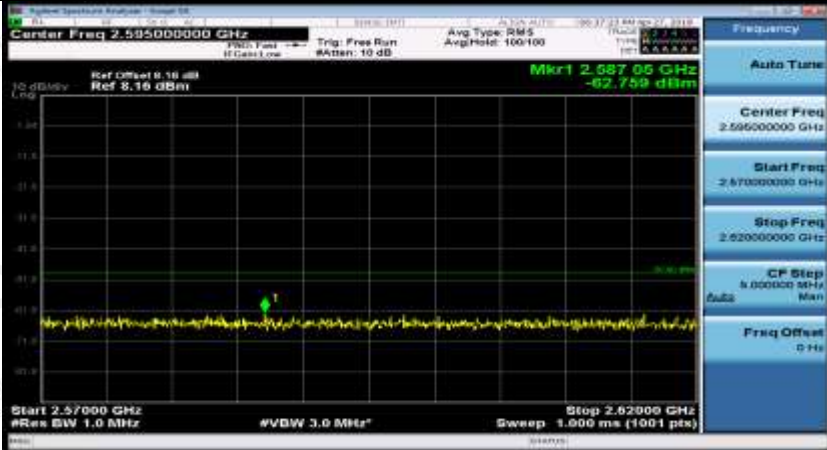
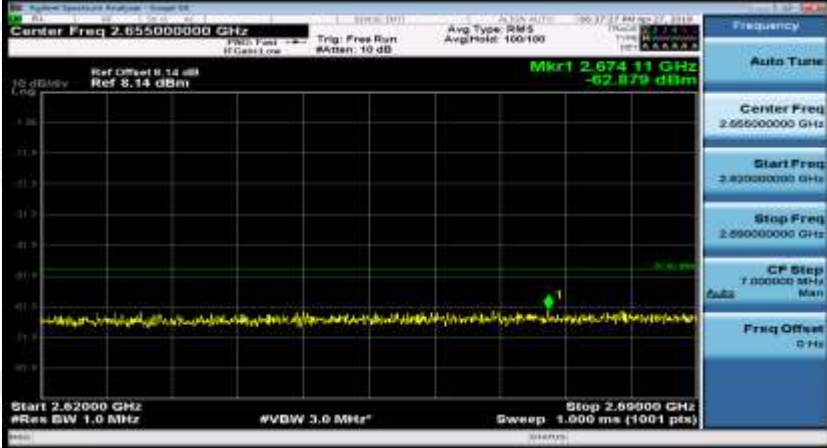
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General			
Co-existence			
Co-existence			

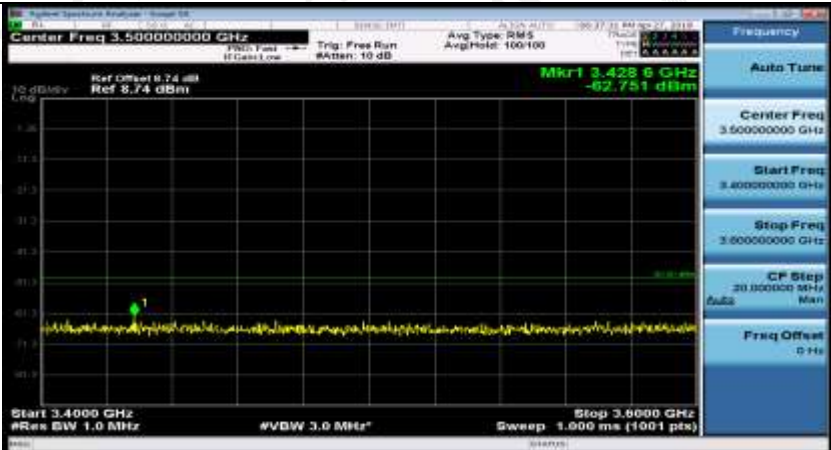
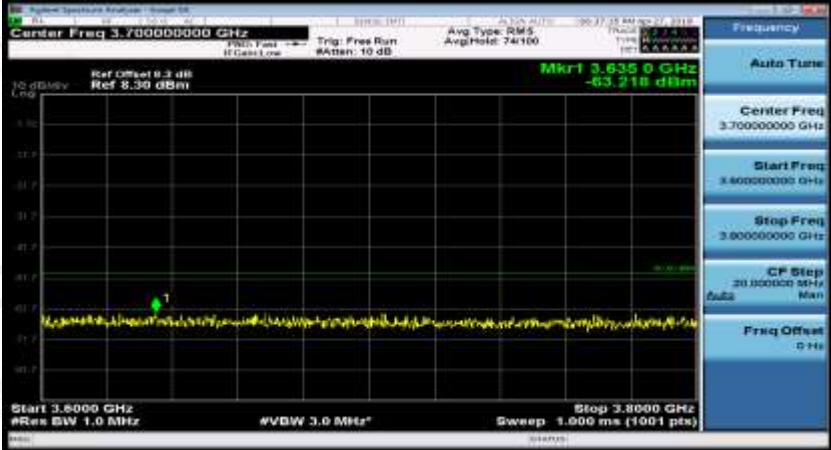
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Co-existence	
Co-existence	
Co-existence	

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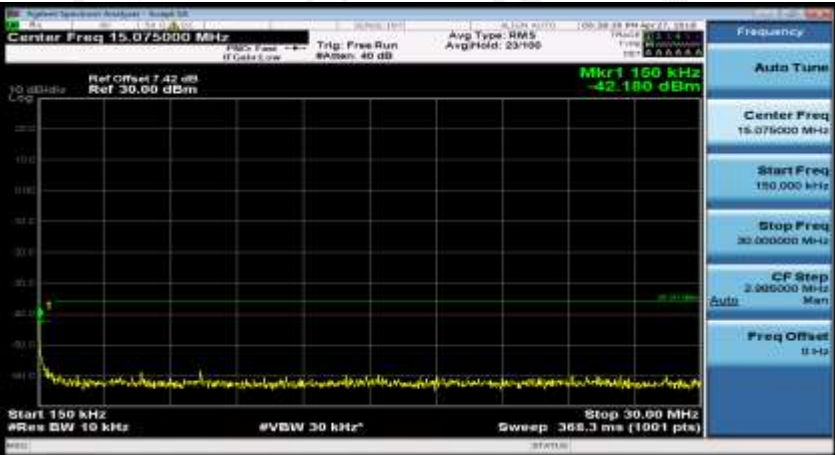

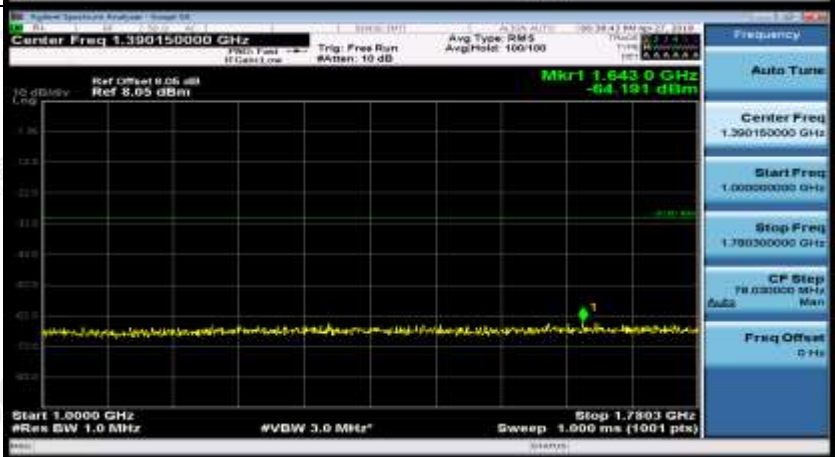
Co-existence	
Co-existence	
Co-existence	

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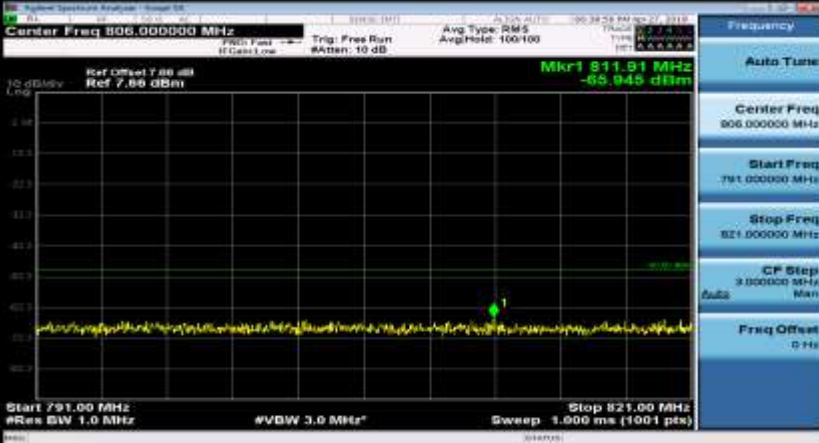
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullIRB#0	
General	

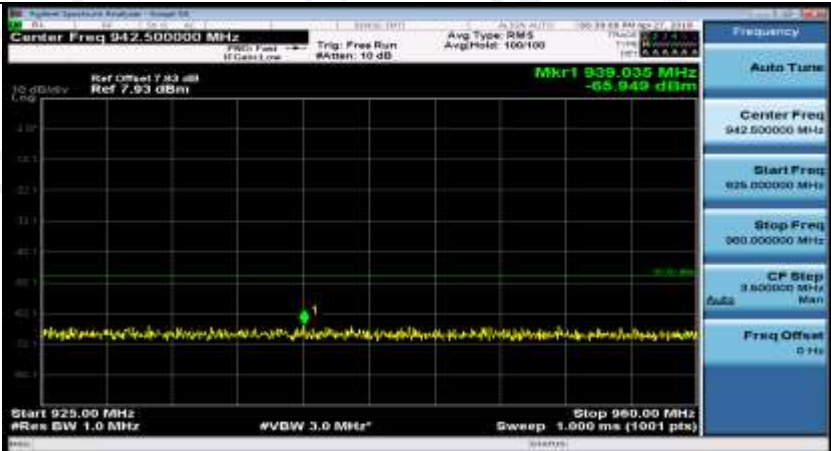
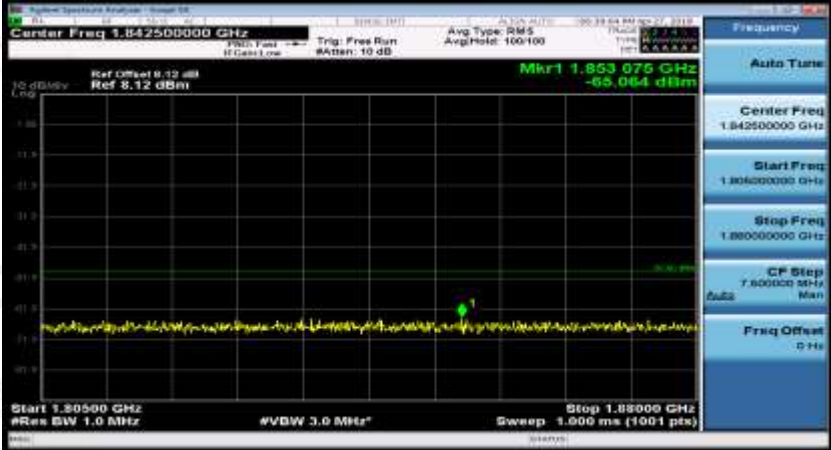
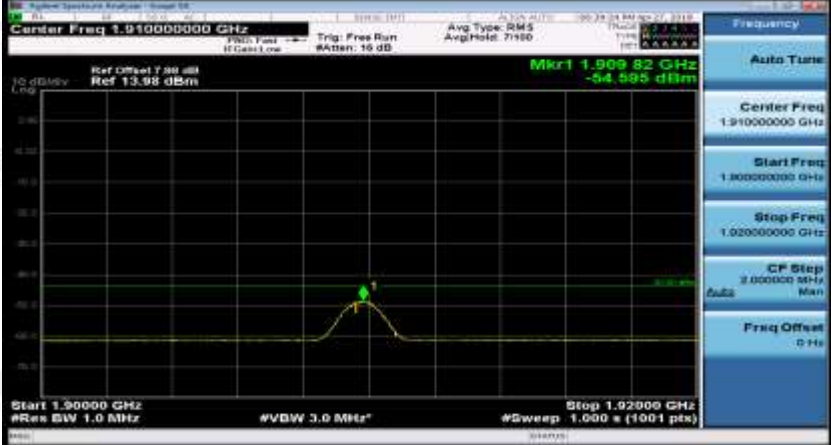
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General			
General			
General			

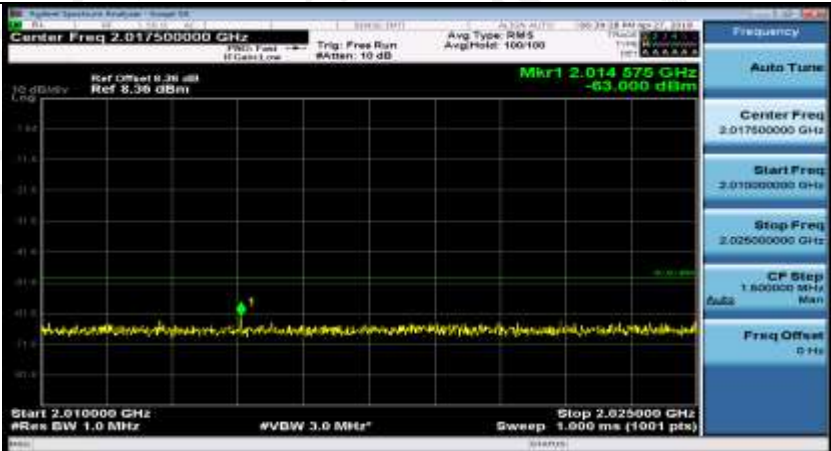
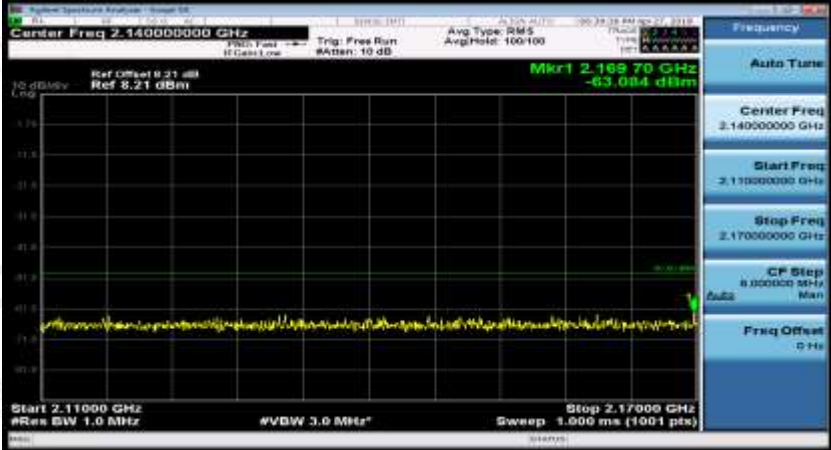
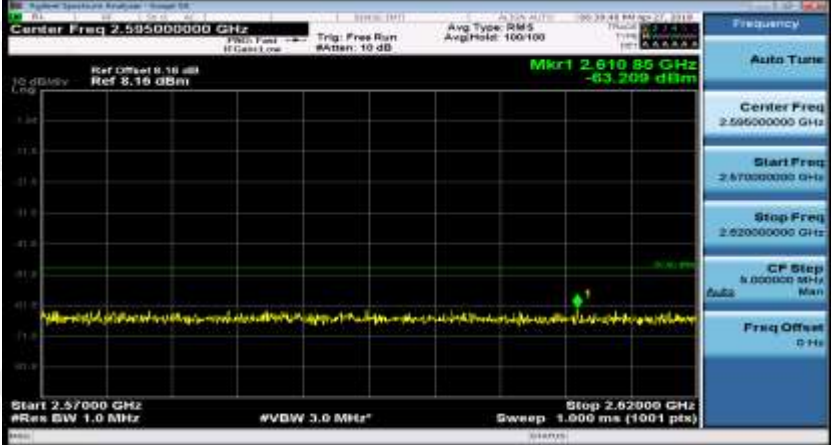
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General			
General			
Co-existence			

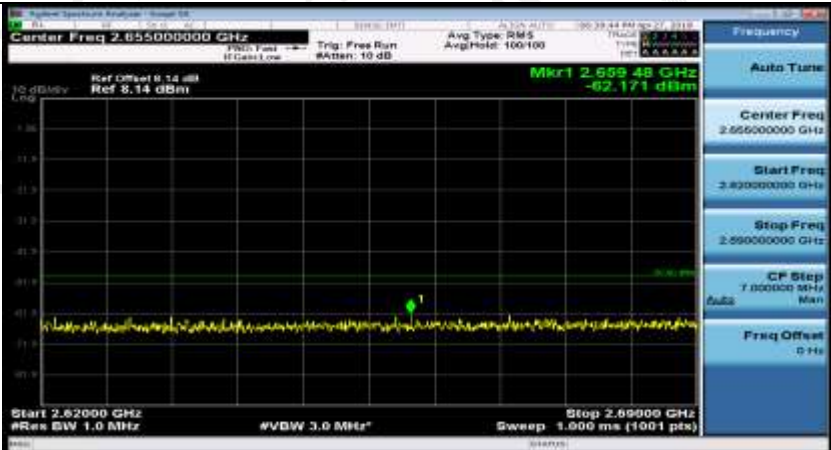
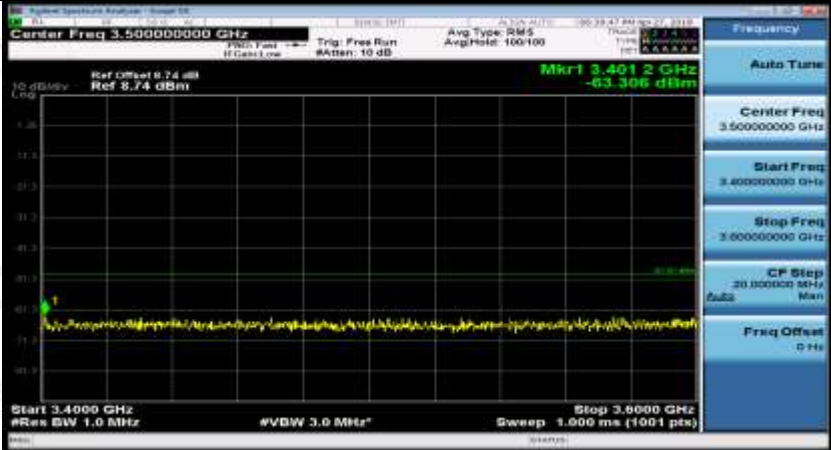
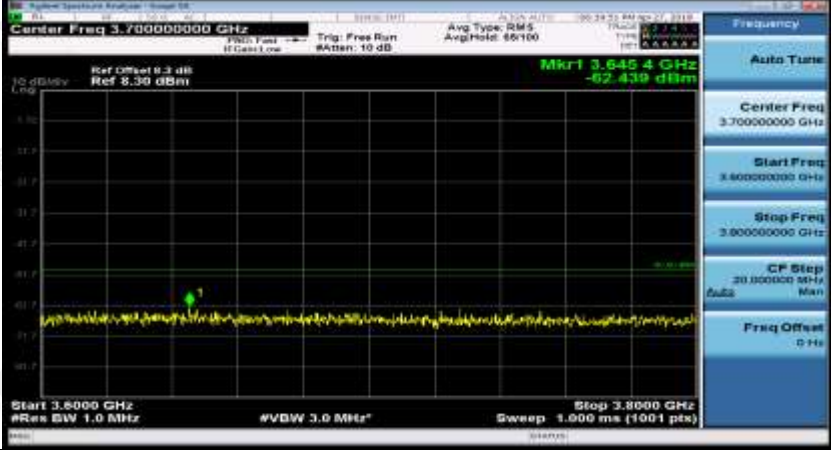
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

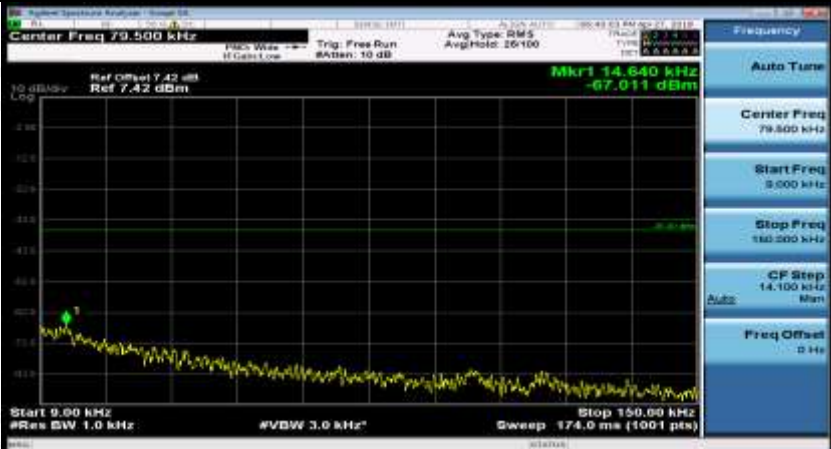
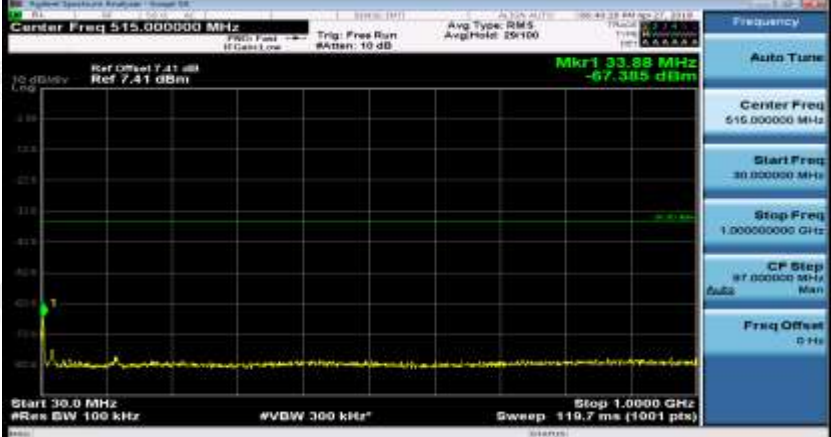
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Co-existence	
Co-existence	
Co-existence	
Additional	NA

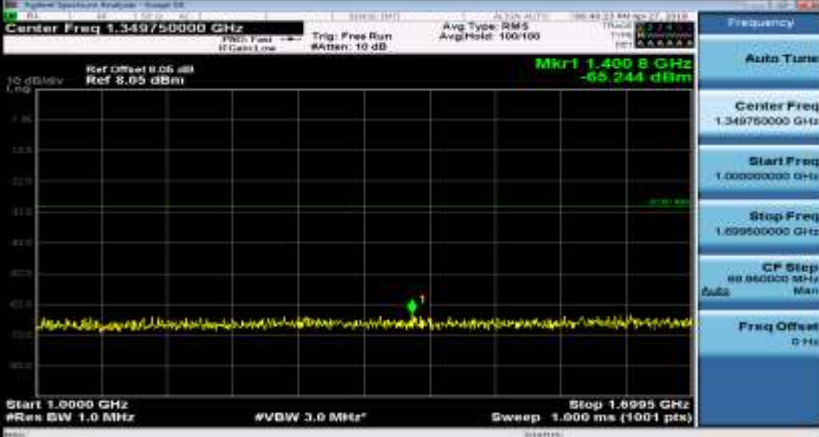
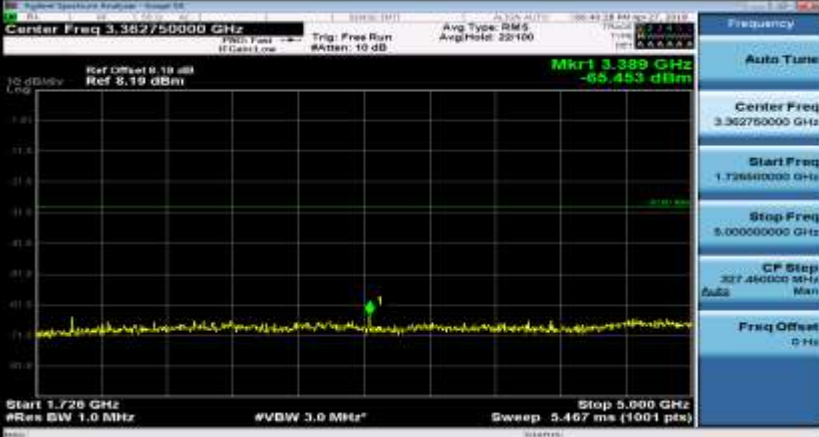

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Channel Bandwidth=(5 MHz)

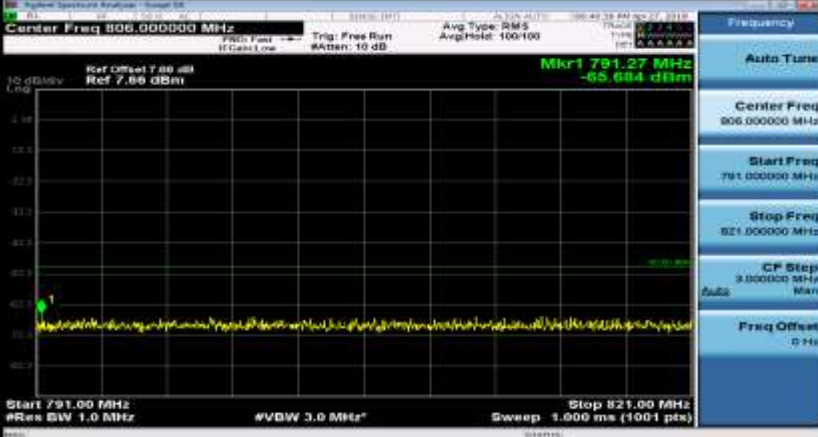
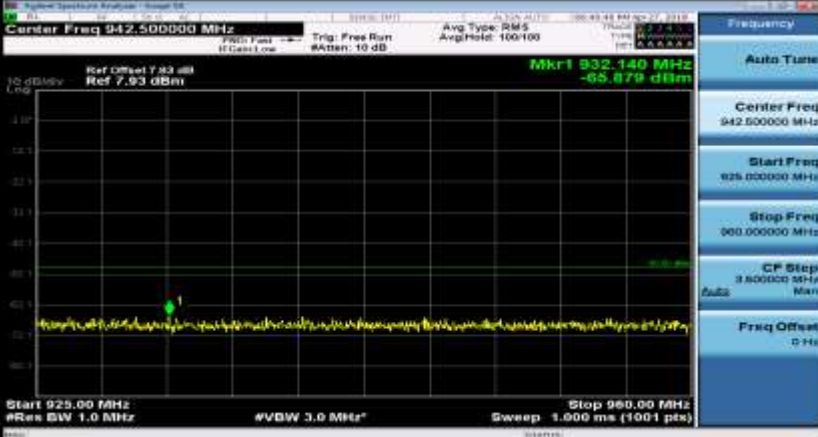

Channel Bandwidth=(5 MHz)_QPSK_LCH_1RB#0

General		
General		
General		

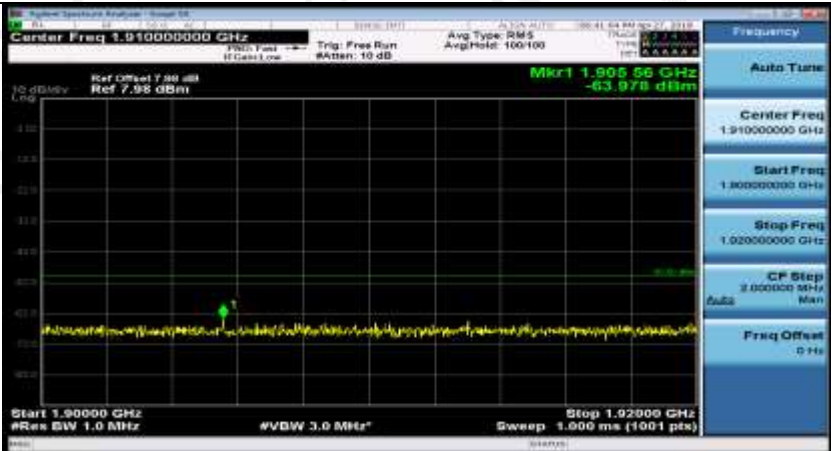

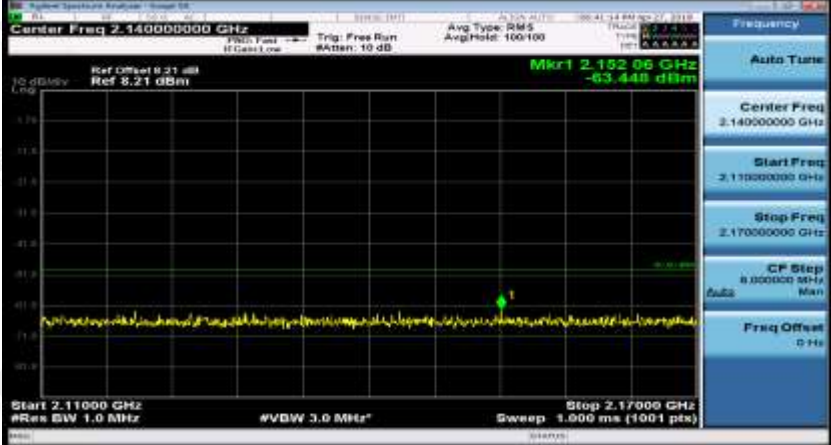
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General			
General			
General			

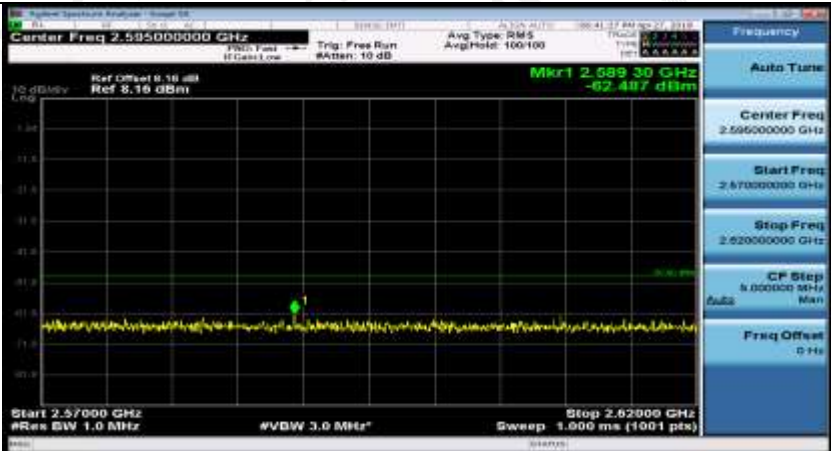

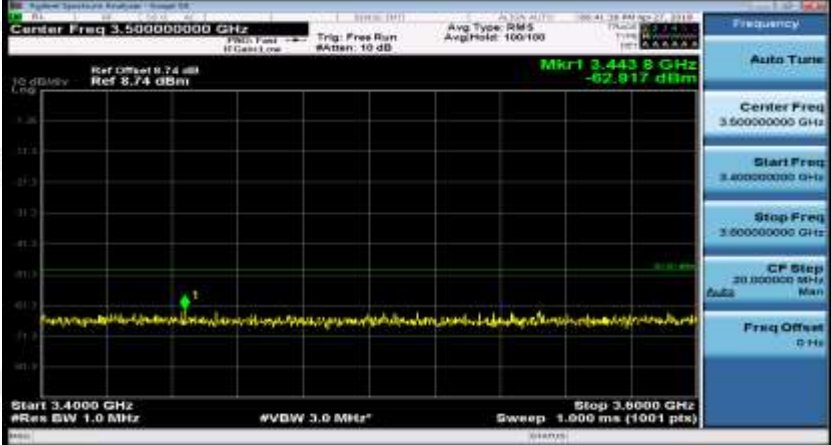
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Co-existence			
Co-existence			
Co-existence			

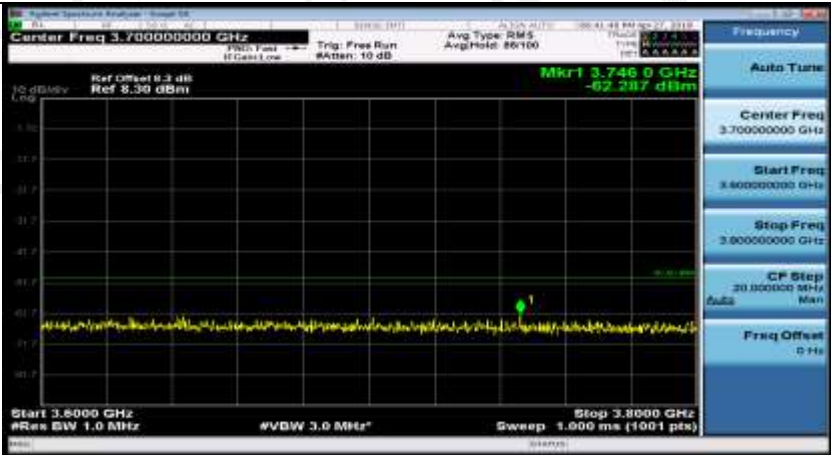
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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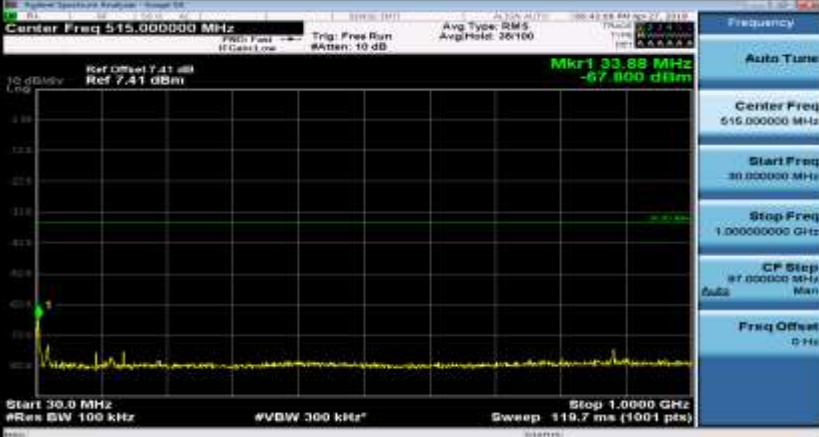
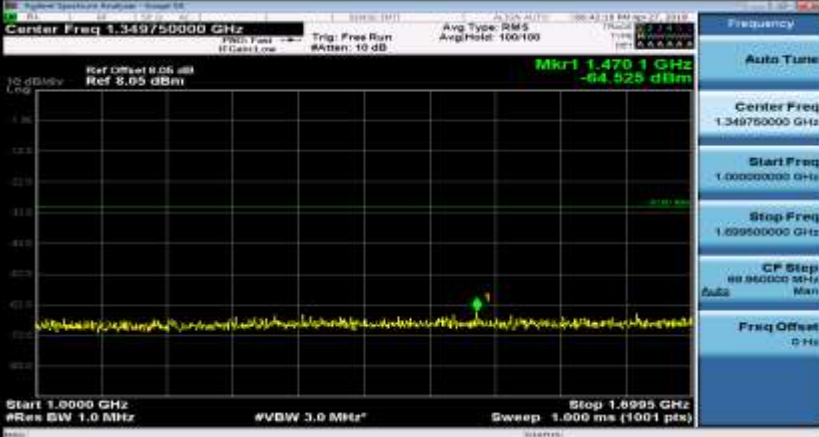
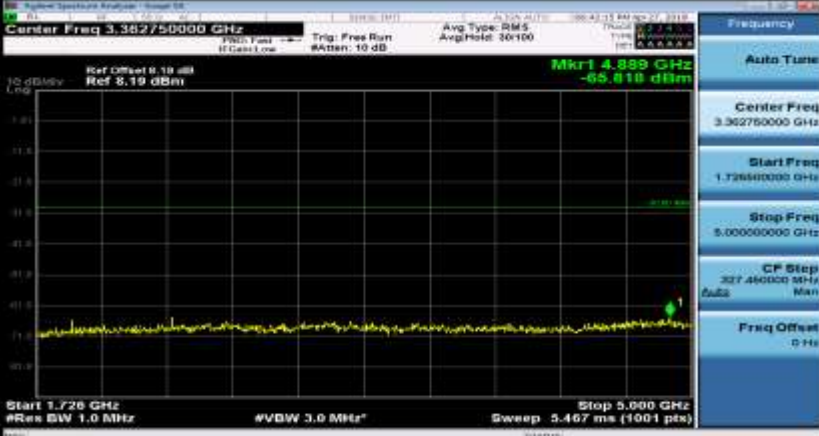
Co-existence	
Co-existence	
Co-existence	

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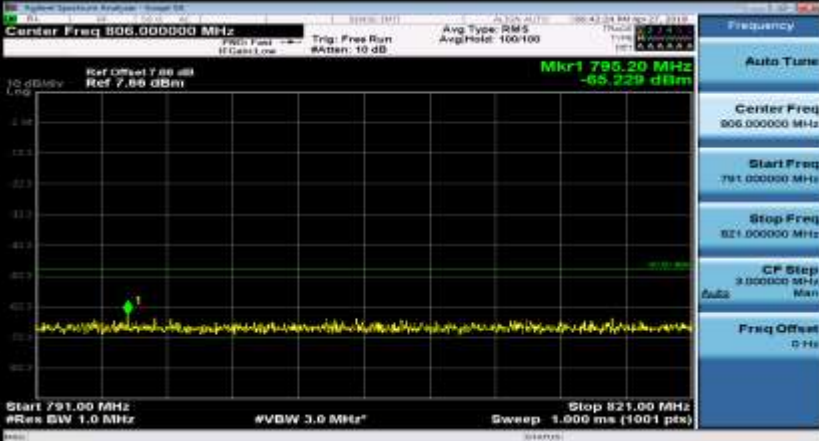
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_LCH_1RB#max	
General	
General	

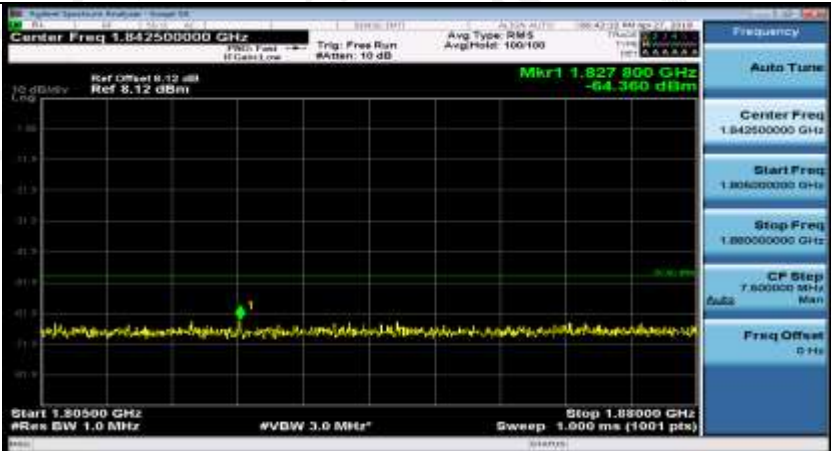
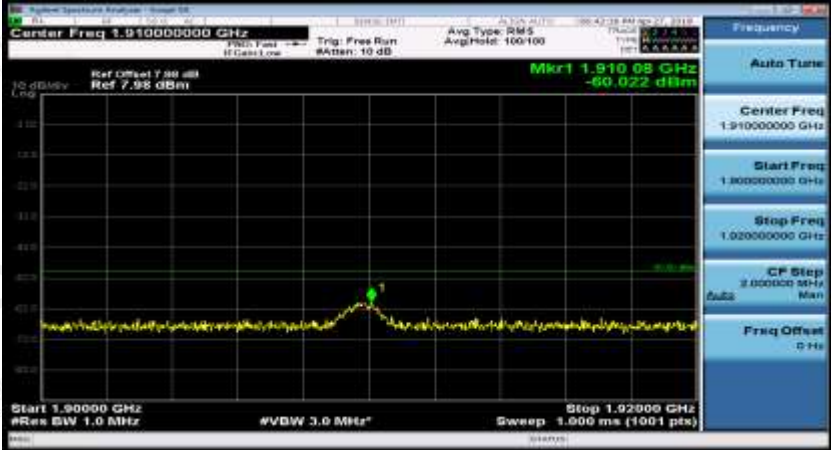
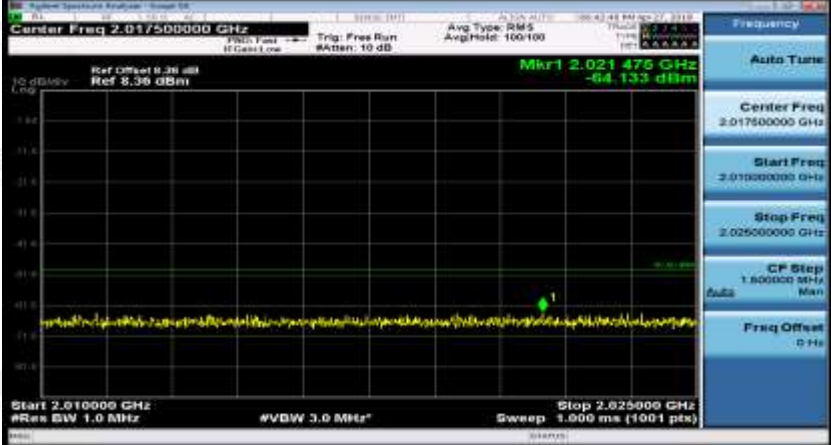
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General			
General			
General			

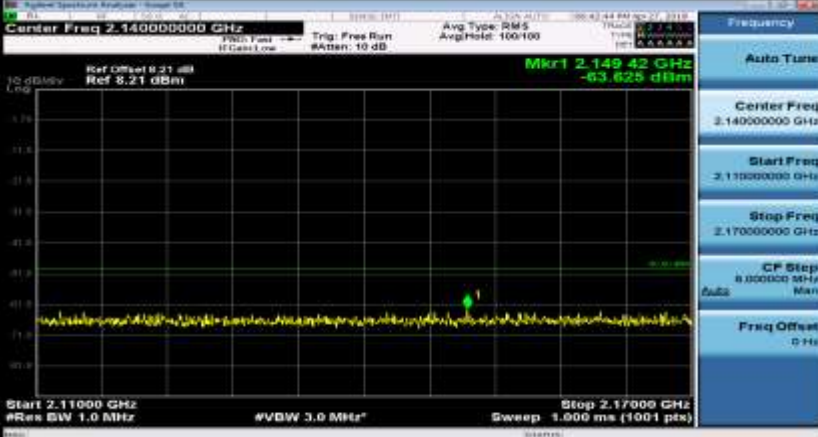
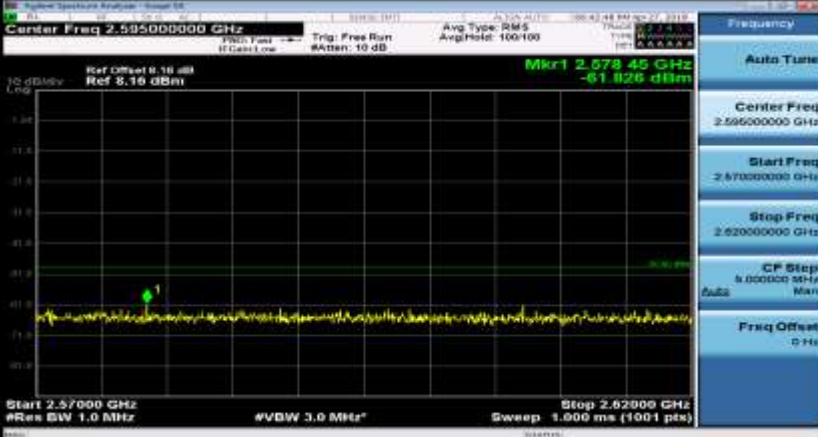
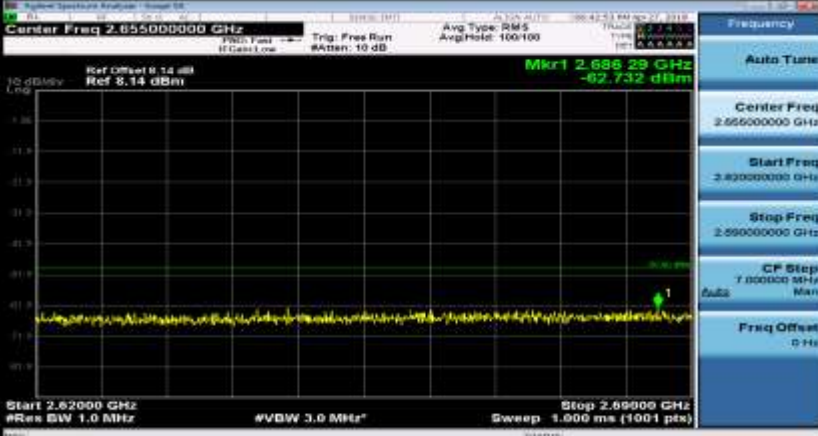
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General			
Co-existence			
Co-existence			

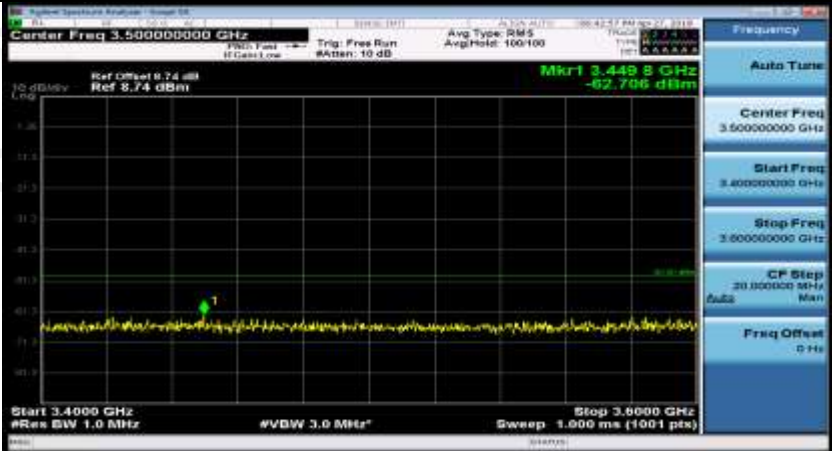
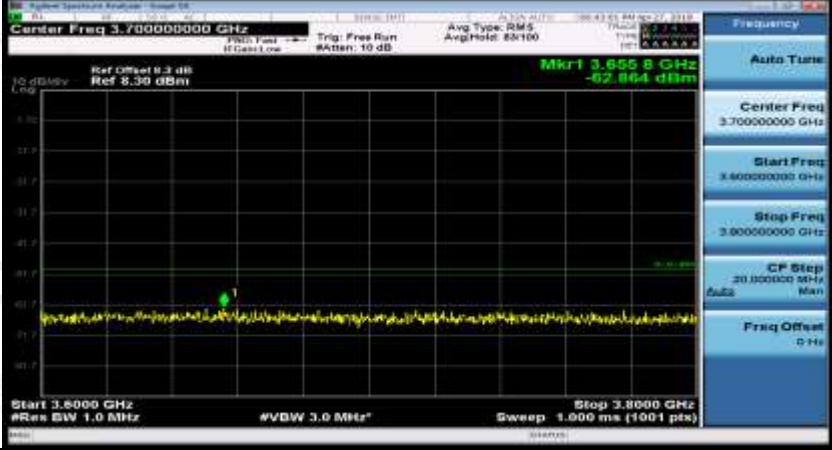
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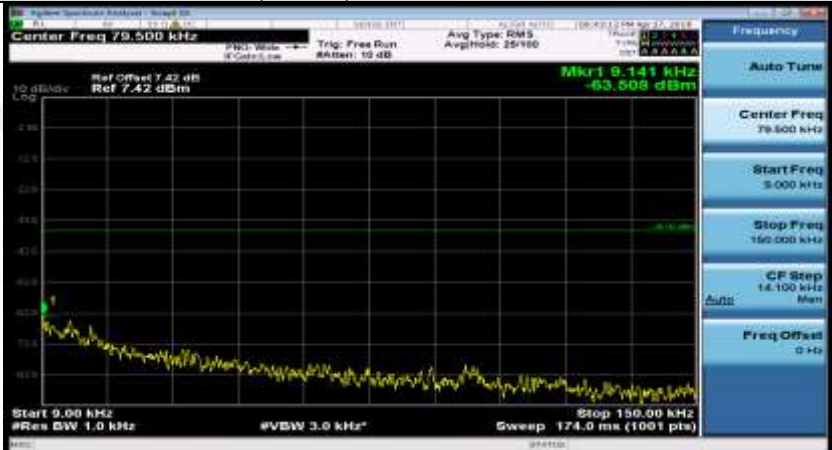
Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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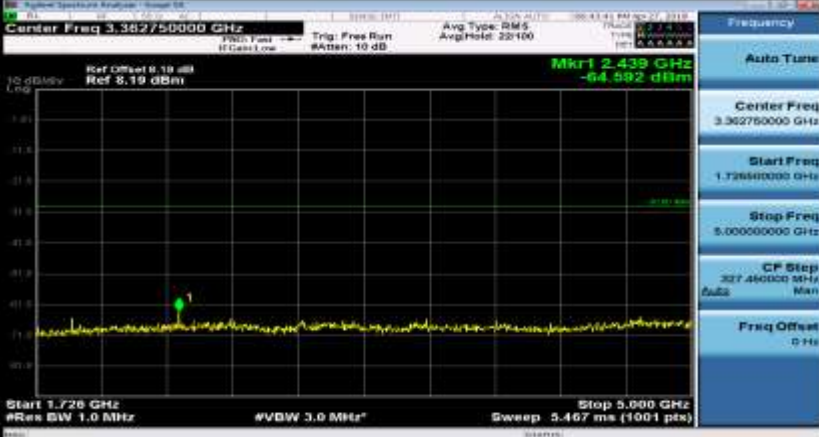

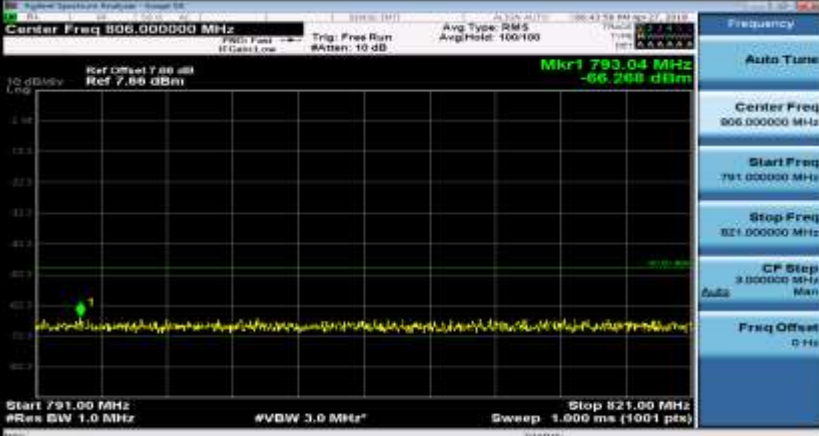
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_LCH_FullRB#0	
General	

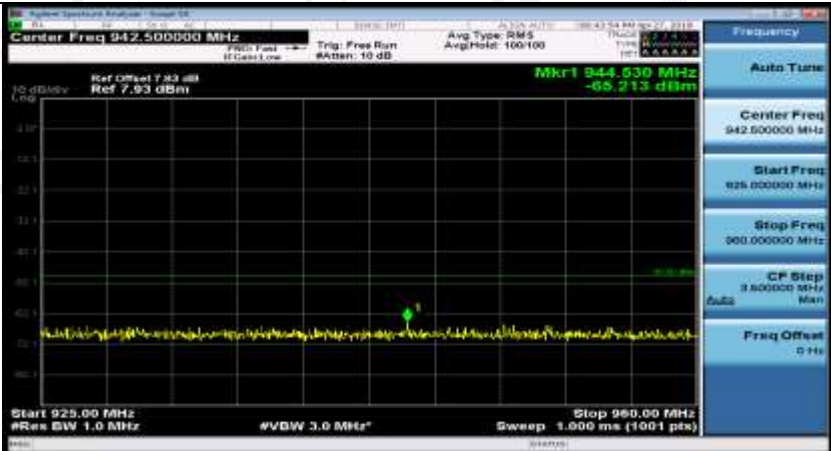
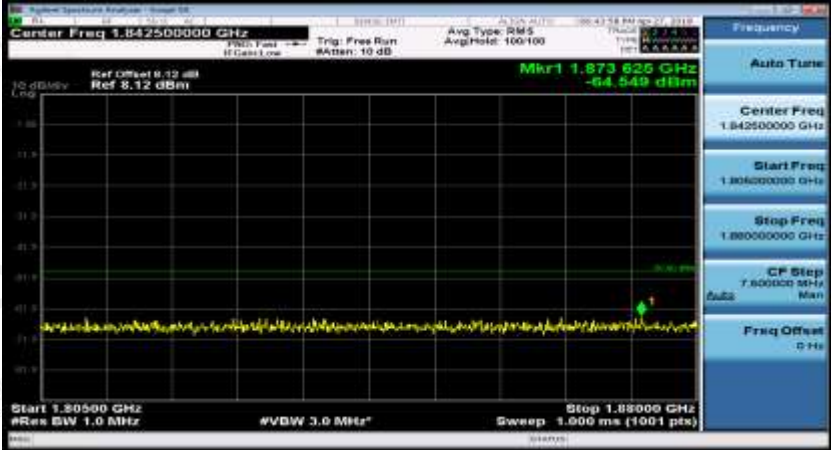
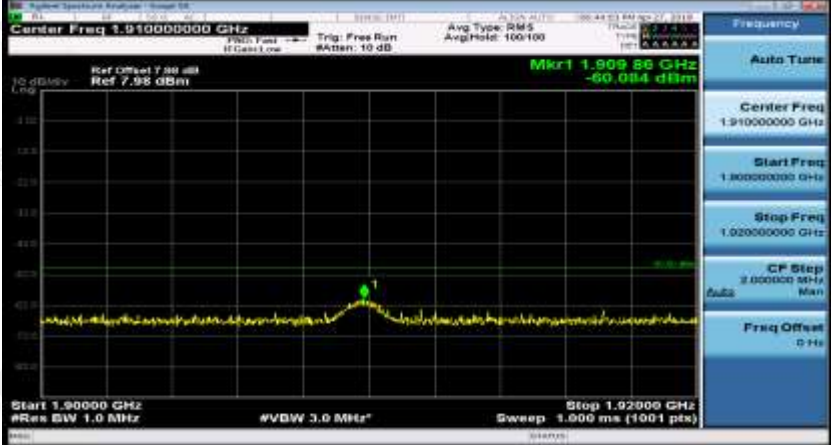
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General			
General			
General			

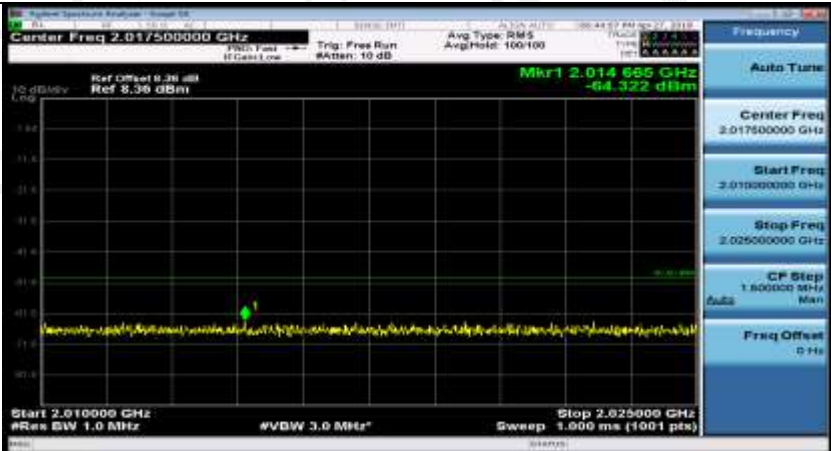
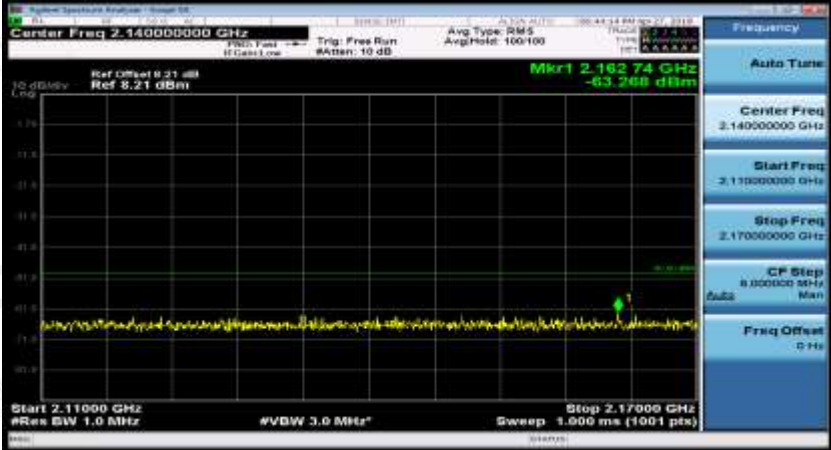
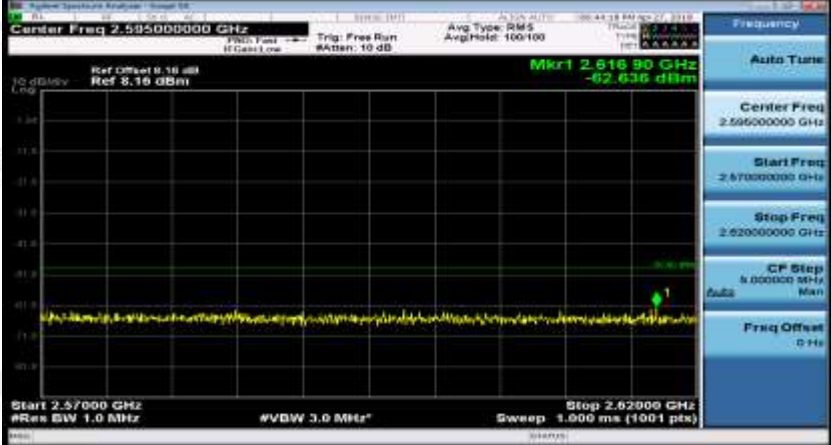
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General			
General			
Co-existence			

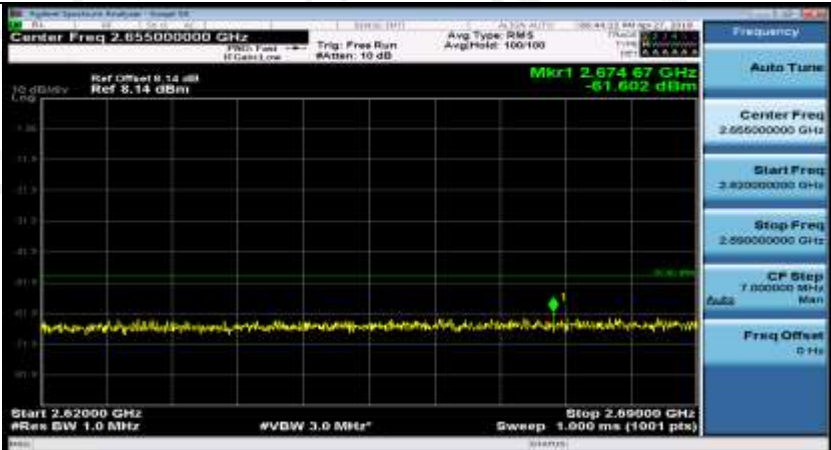
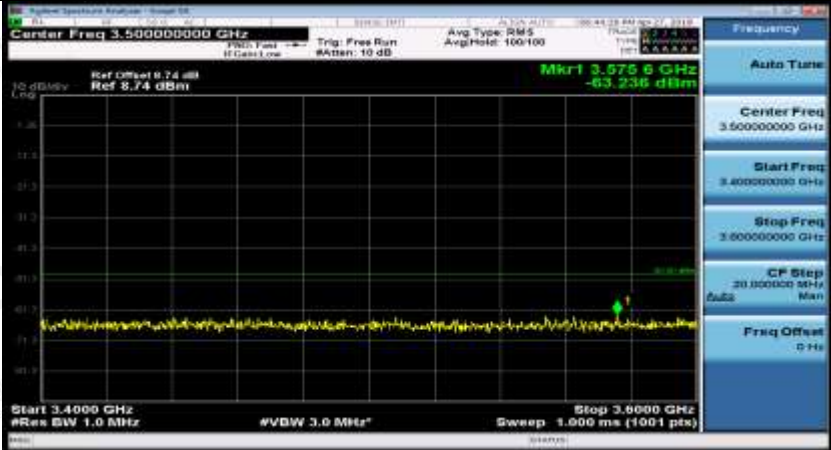

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	



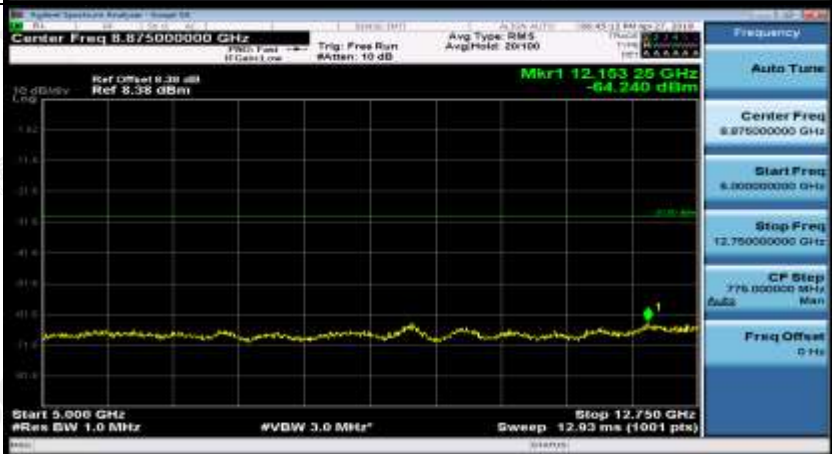
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	
Additional	NA

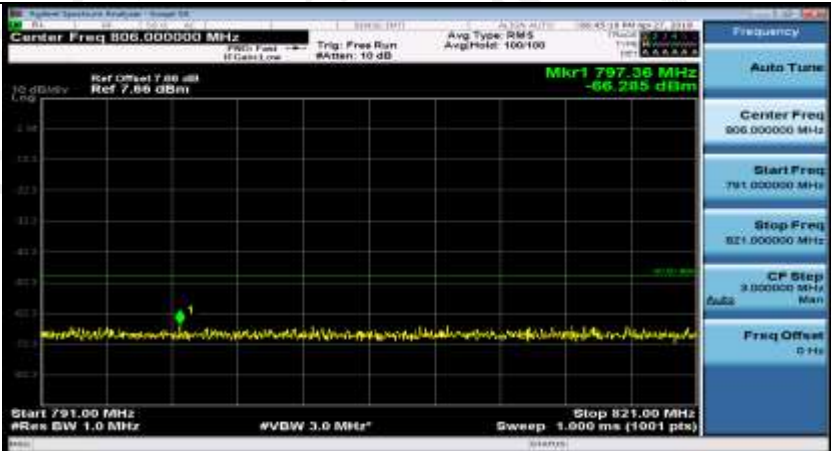
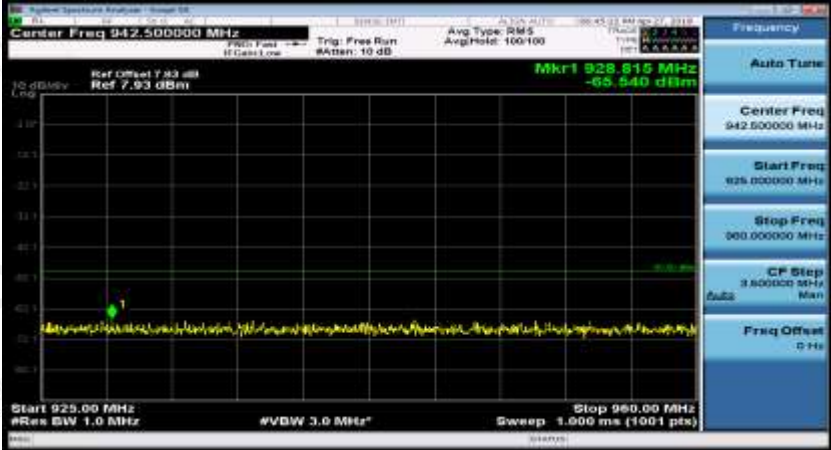
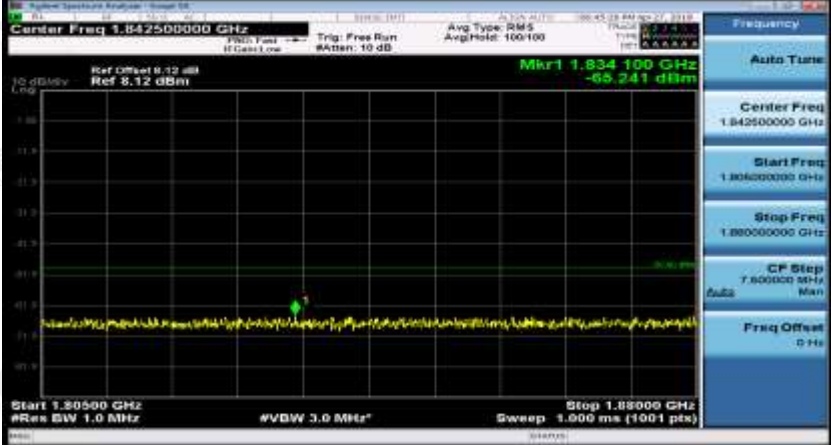
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Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#0	
General	
General	
General	

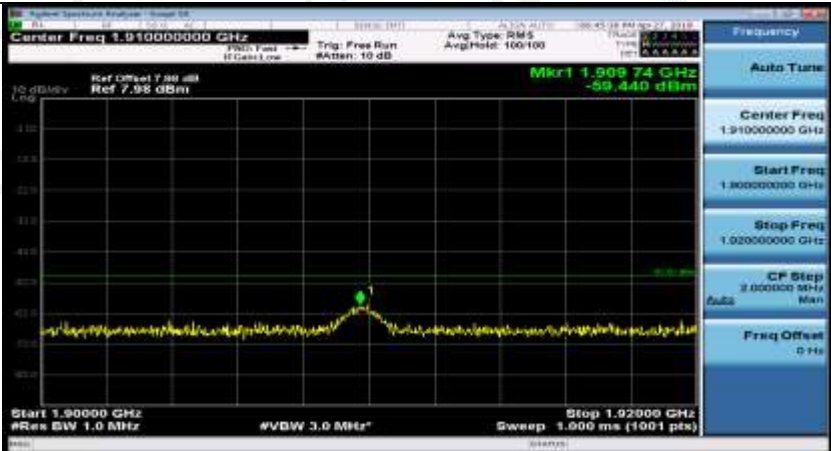
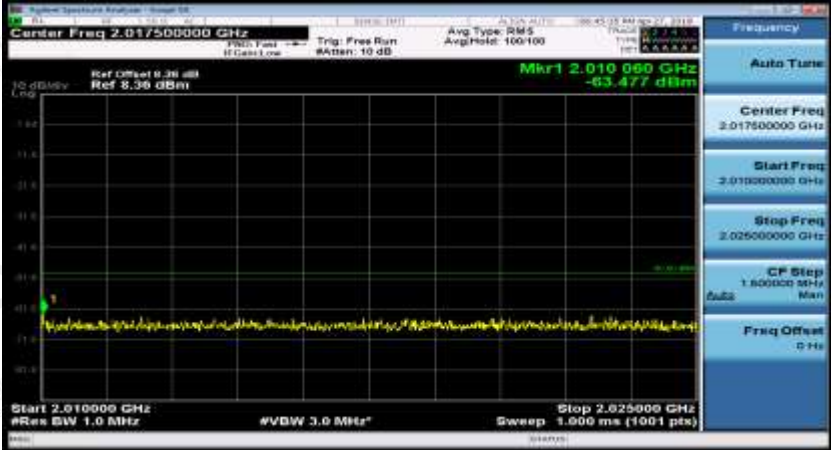
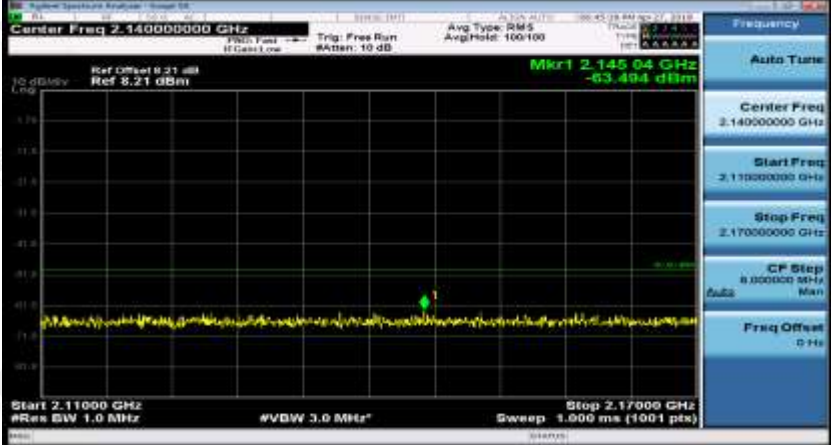
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General		 <p>Center Freq 1.367250000 GHz Mkr1 1.6052 GHz -64.781 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.7345 GHz Sweep 1.000 ms (1001 pts)</p>	
General		 <p>Center Freq 3.380250000 GHz Mkr1 4.961 GHz -66.000 dBm Start 1.751 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 5.000 GHz Sweep 5.400 ms (1001 pts)</p>	
General		 <p>Center Freq 8.875000000 GHz Mkr1 12.18328 GHz -64.240 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 12.750 GHz Sweep 12.93 ms (1001 pts)</p>	

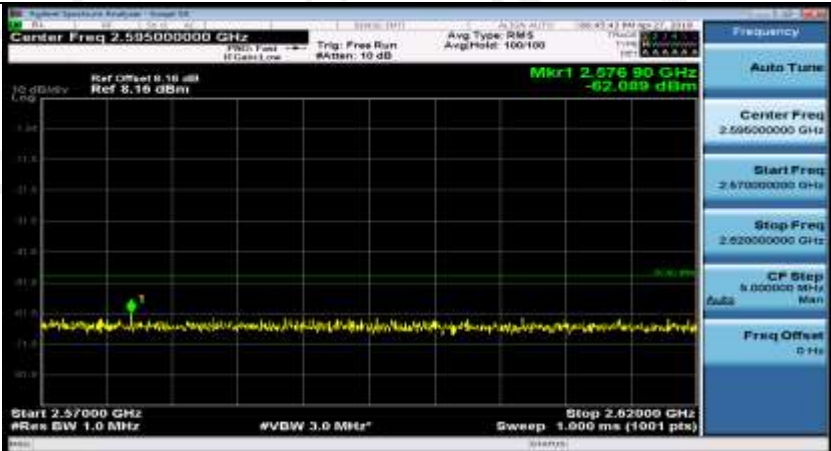
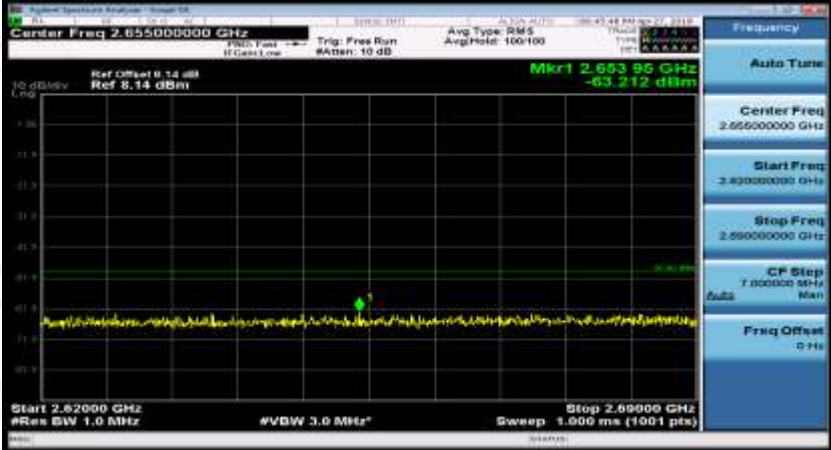
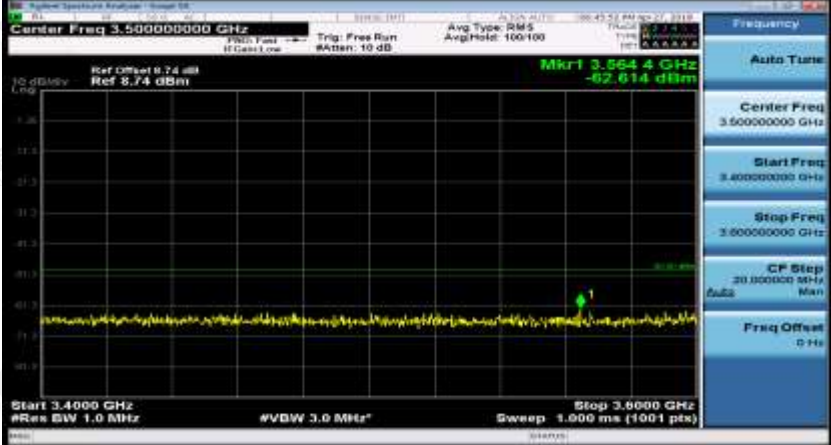
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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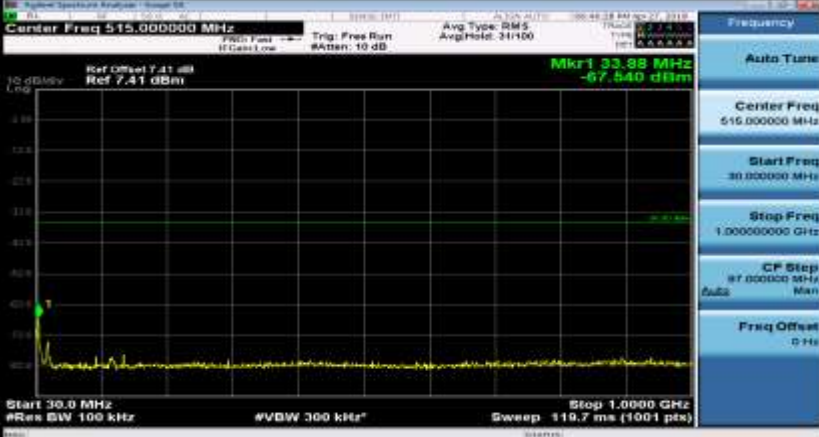
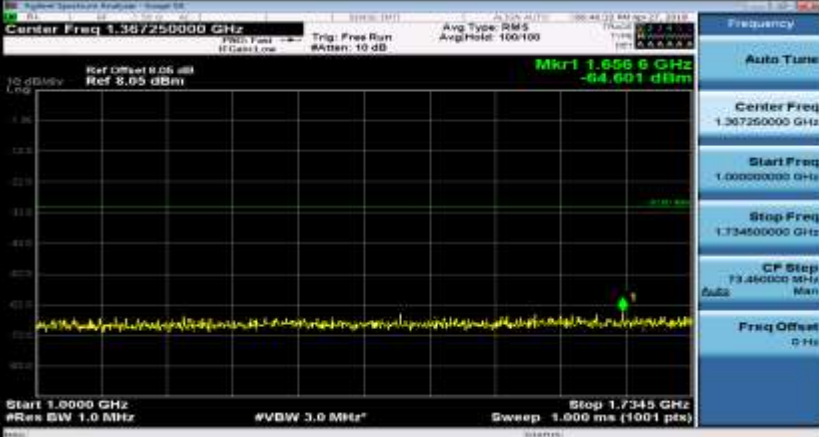

Co-existence	
Co-existence	
Co-existence	

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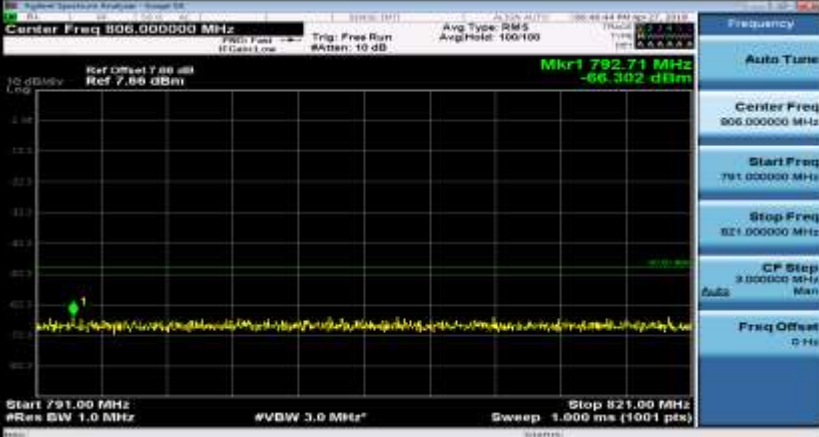
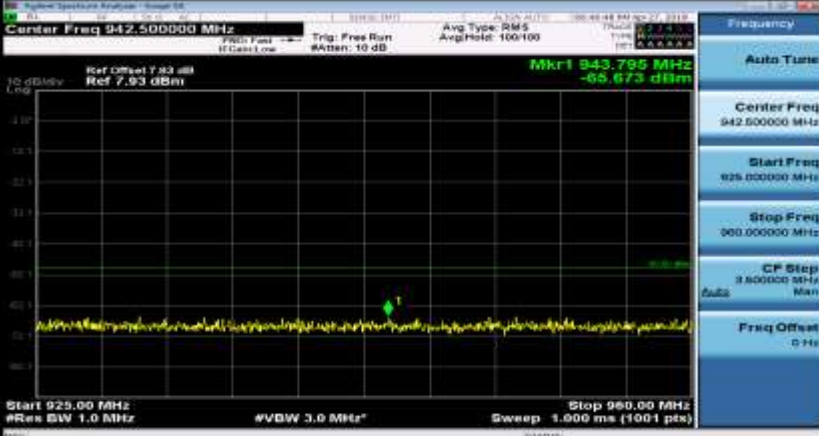
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#max	
General	
General	

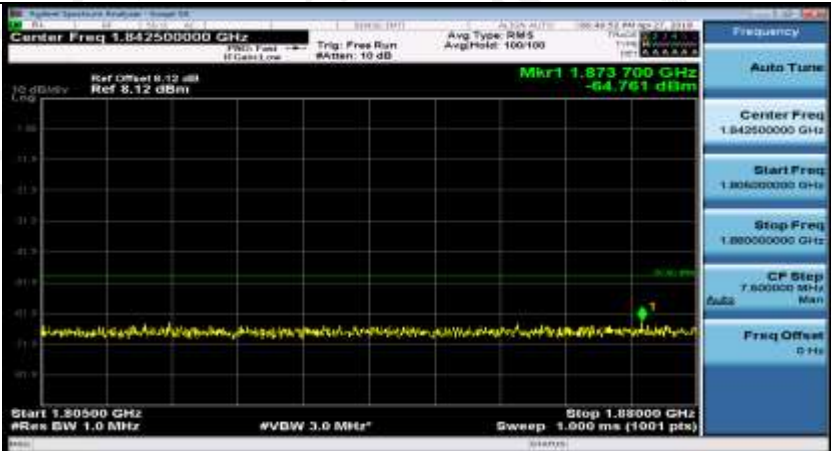
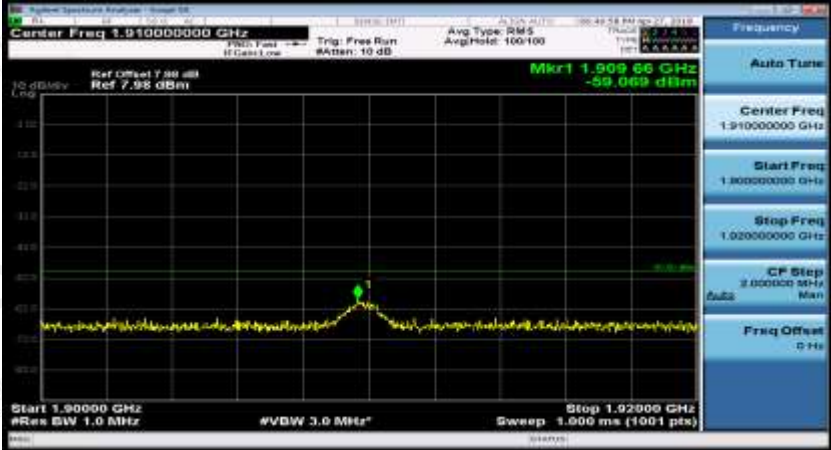
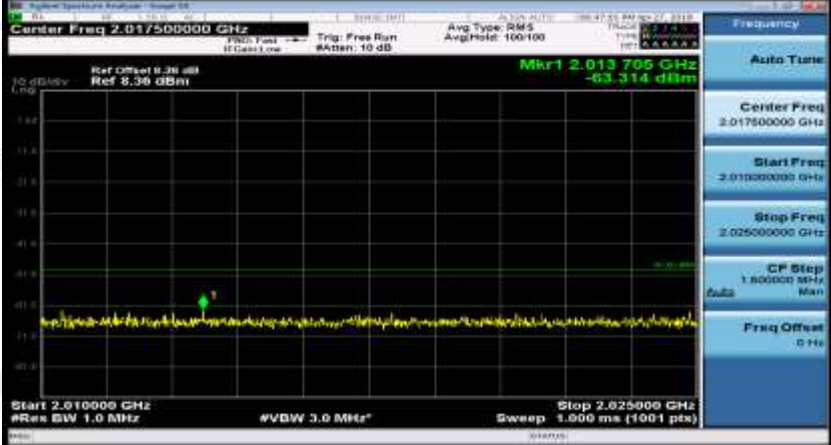
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General			
General			
General			

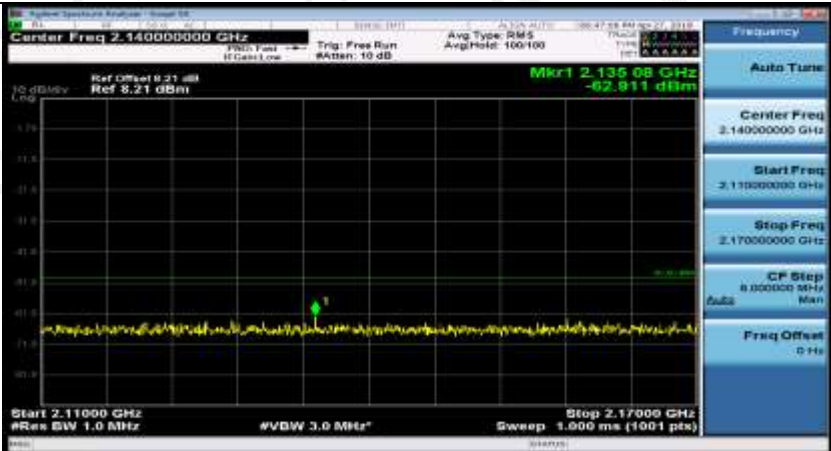
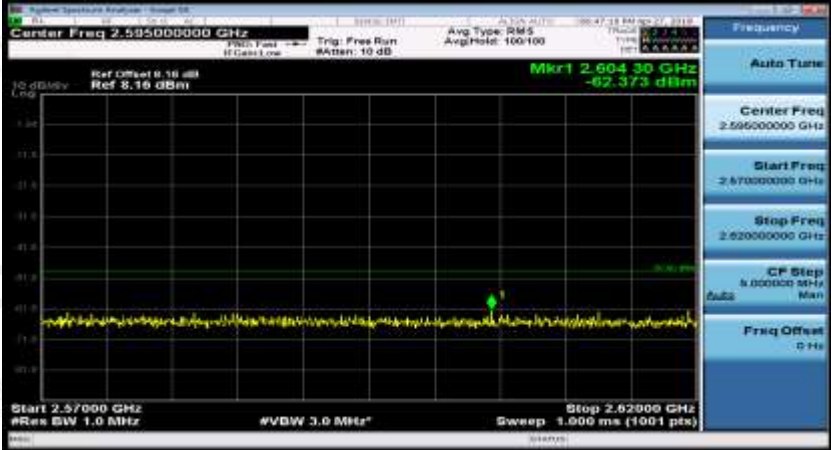
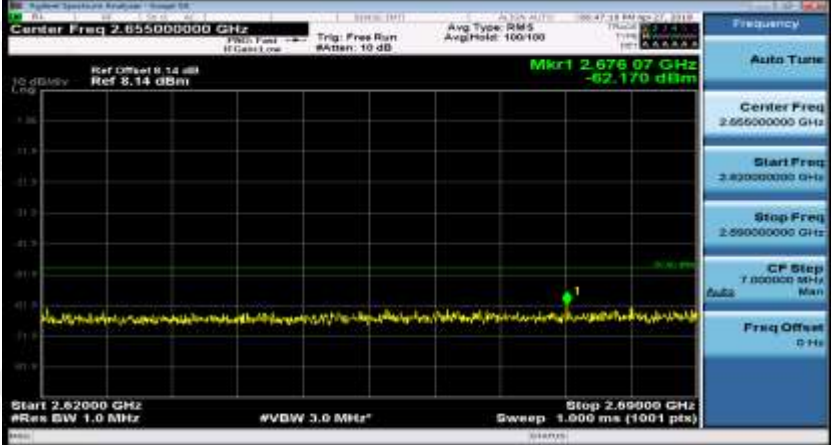
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General			
Co-existence			
Co-existence			

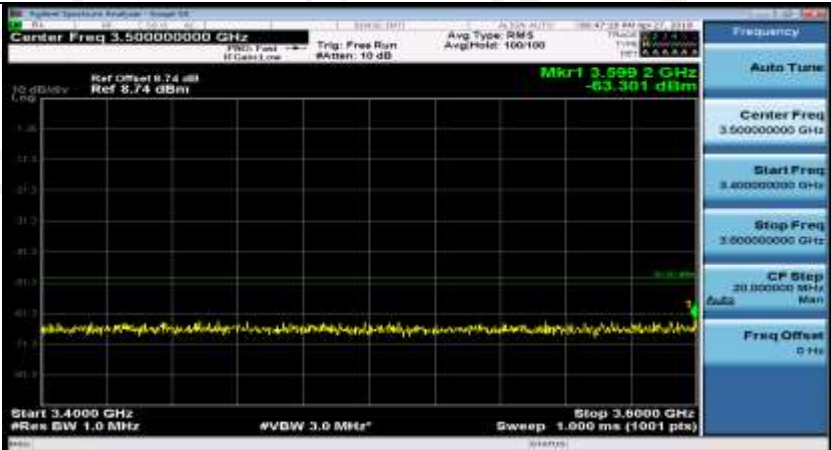
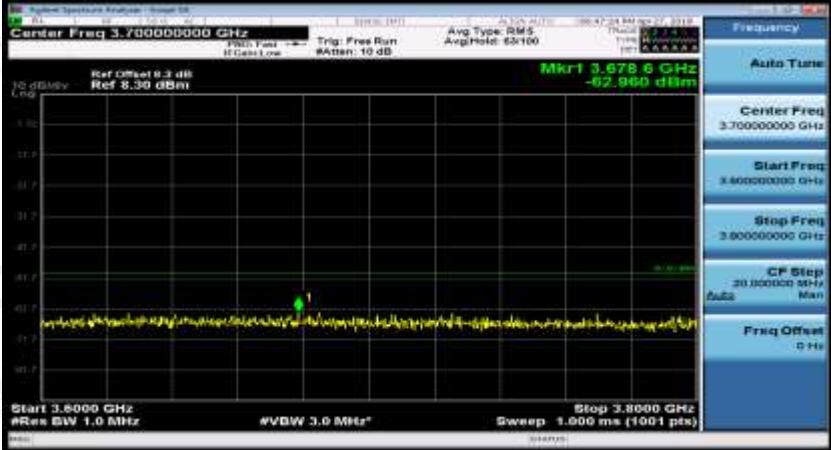
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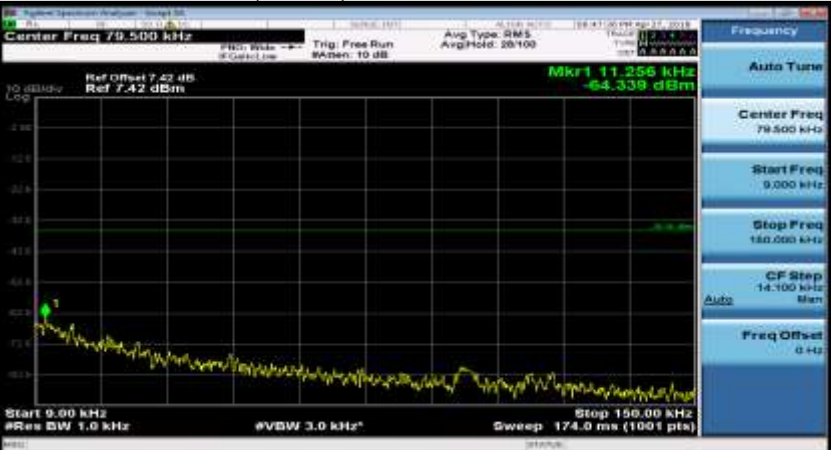
Co-existence	
Co-existence	
Co-existence	

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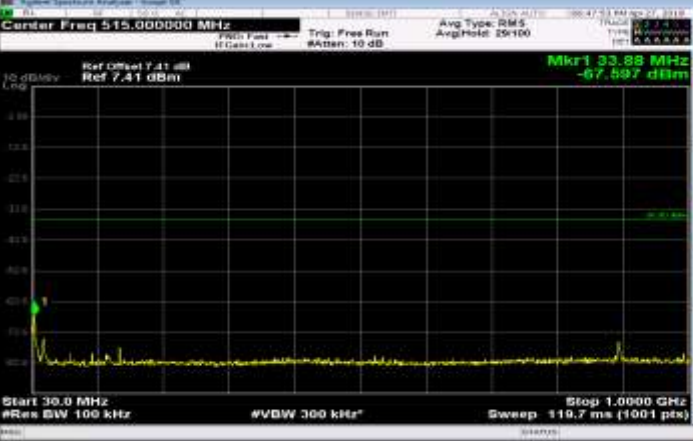
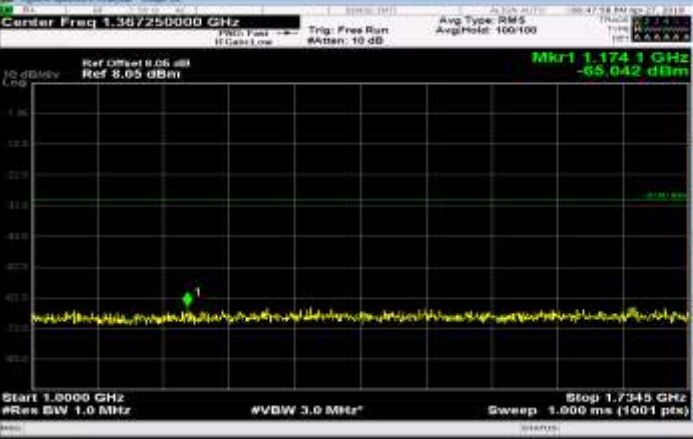
Co-existence	
Co-existence	
Co-existence	

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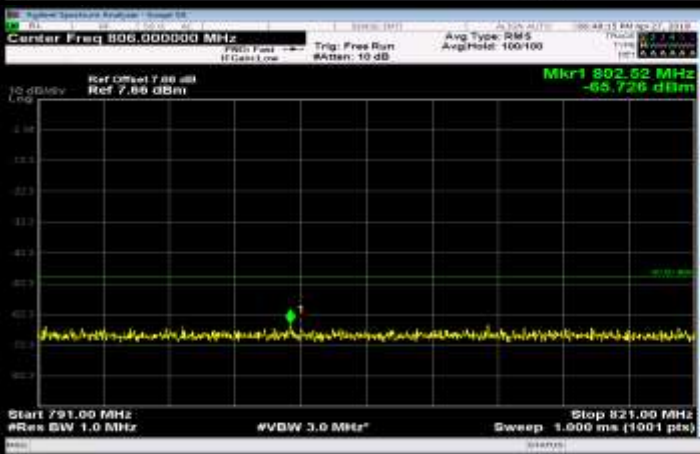
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_FullIRB#0	
General	

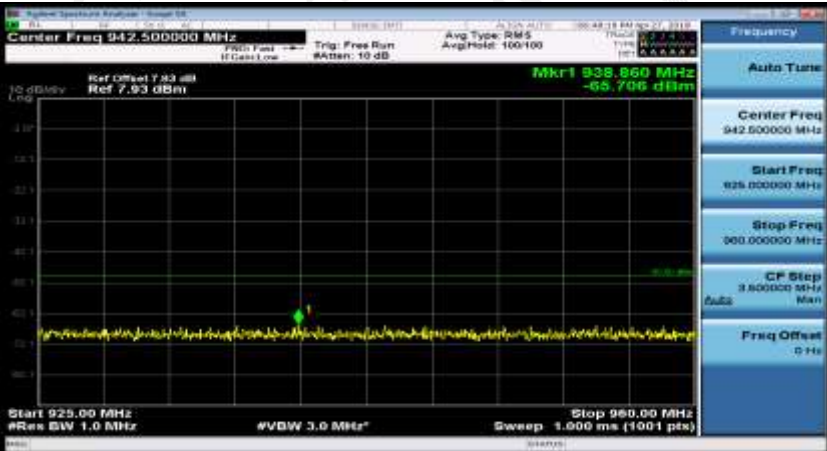
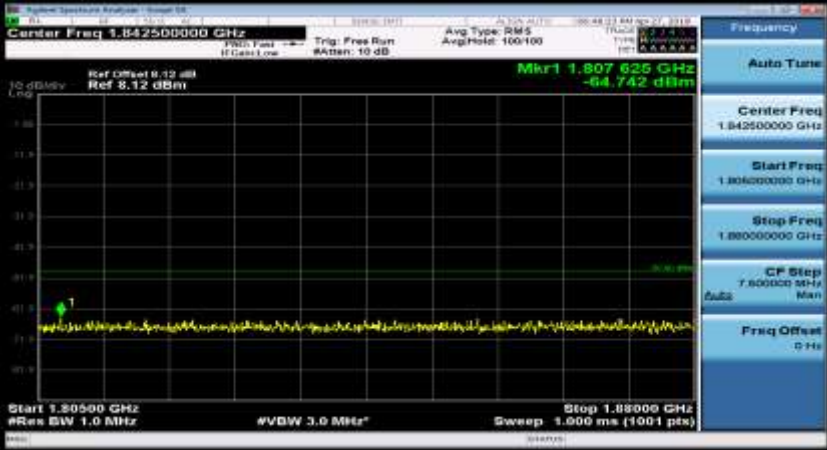
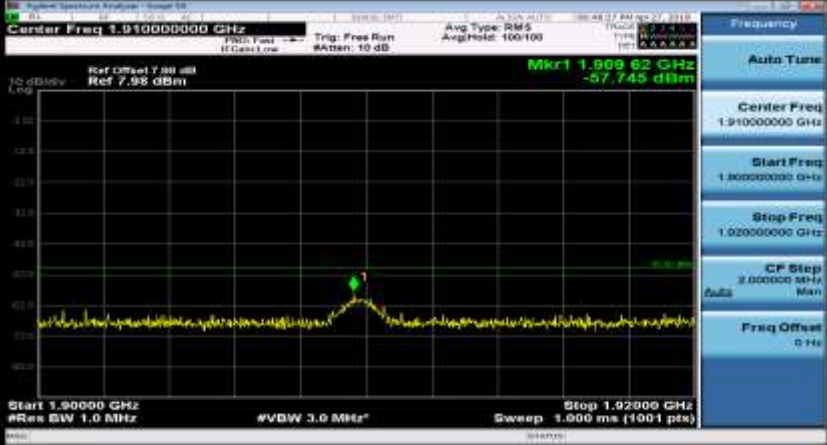
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General			
General			
General			

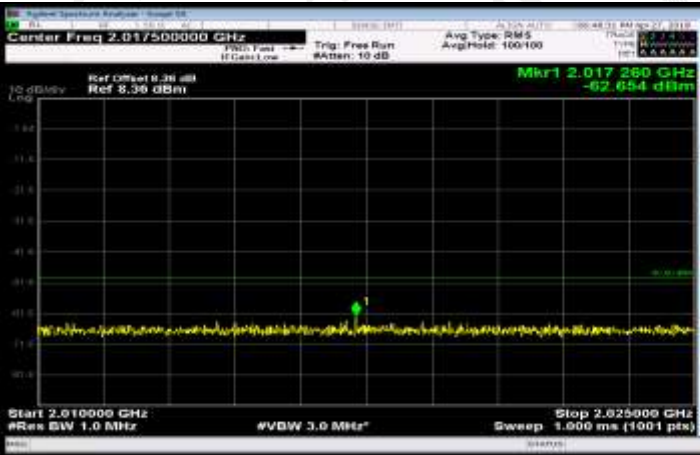
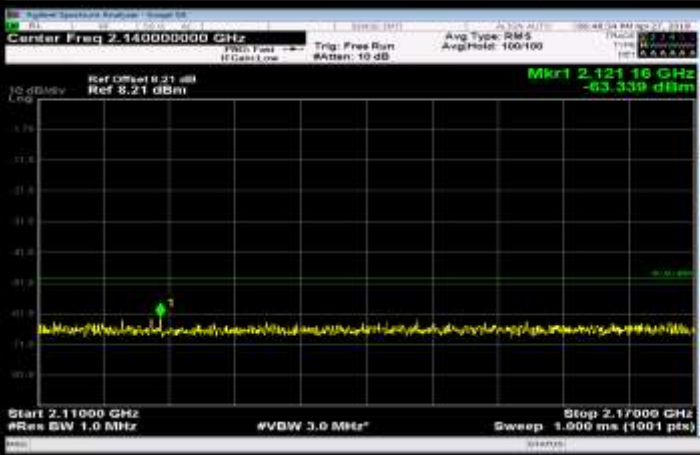
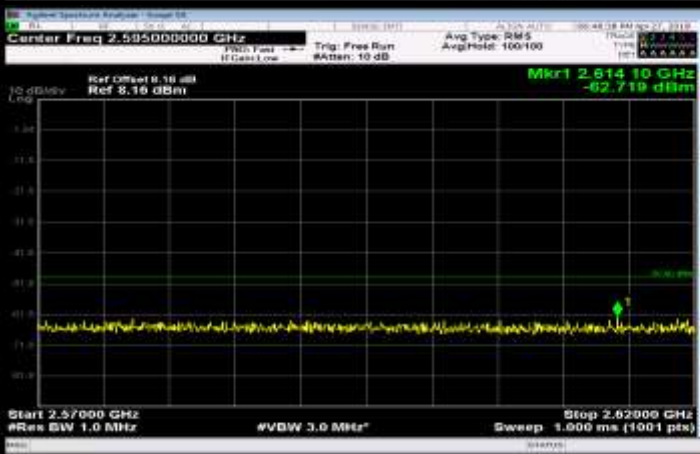
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.380250000 GHz</p> <p>Start Freq 1.780000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 320.000000 MHz</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 6.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

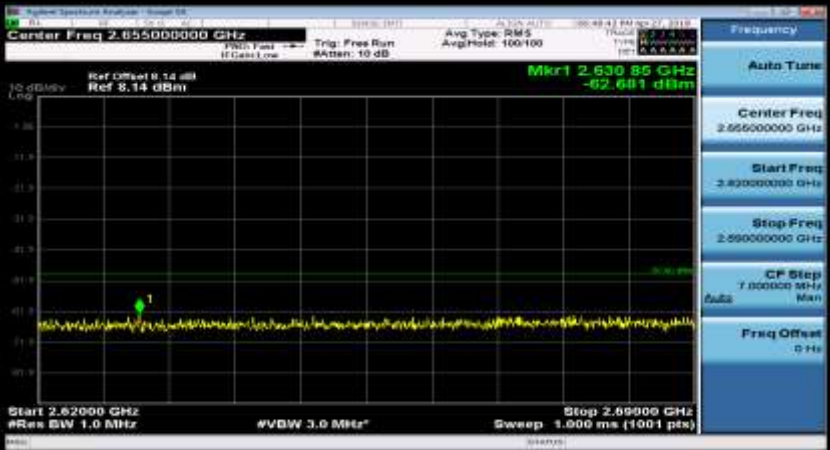
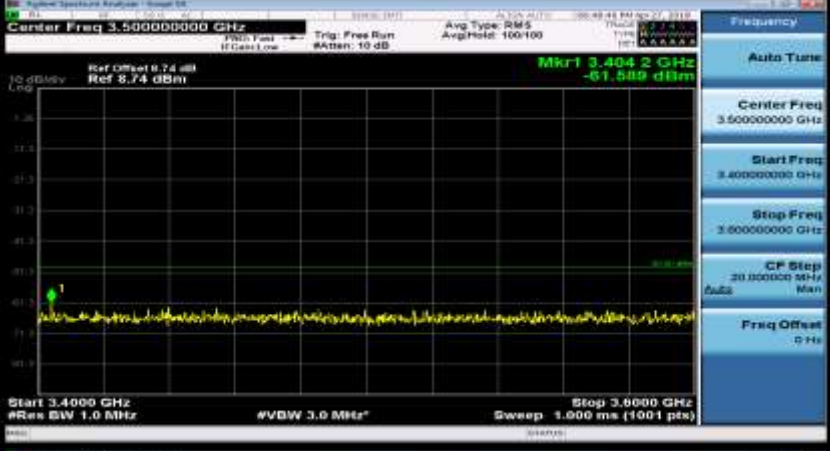
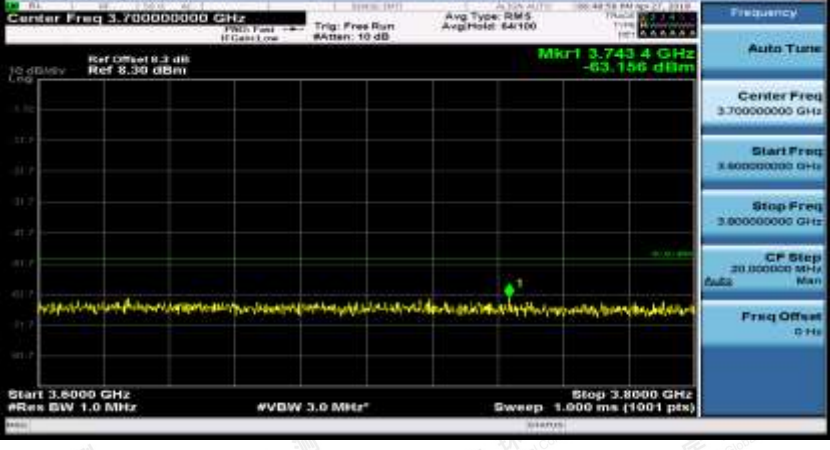
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Co-existence	
Co-existence	
Co-existence	

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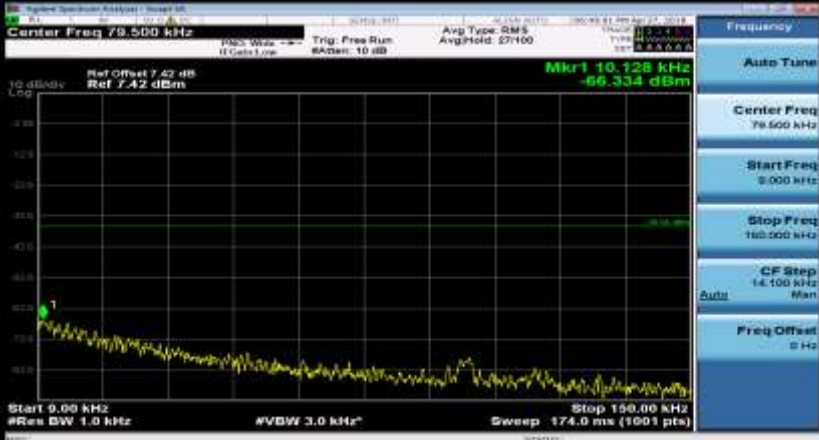

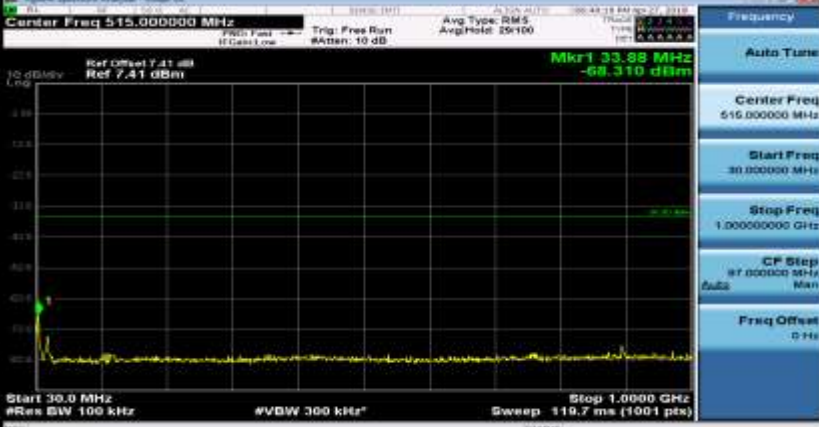
Co-existence		
Co-existence		
Co-existence		

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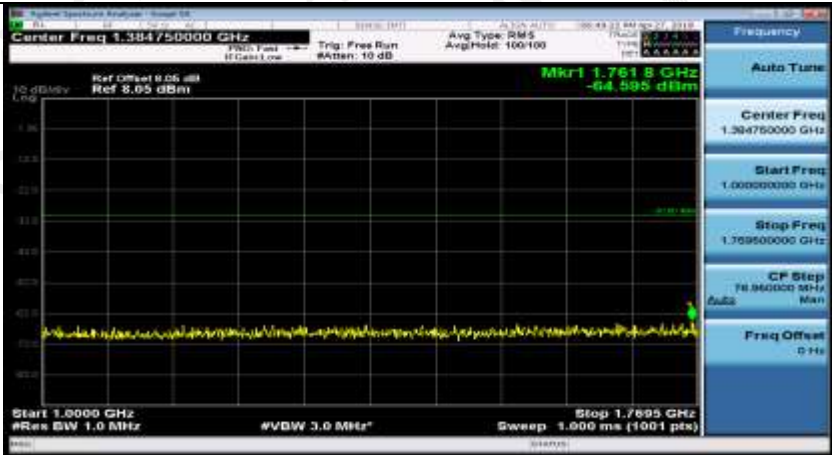

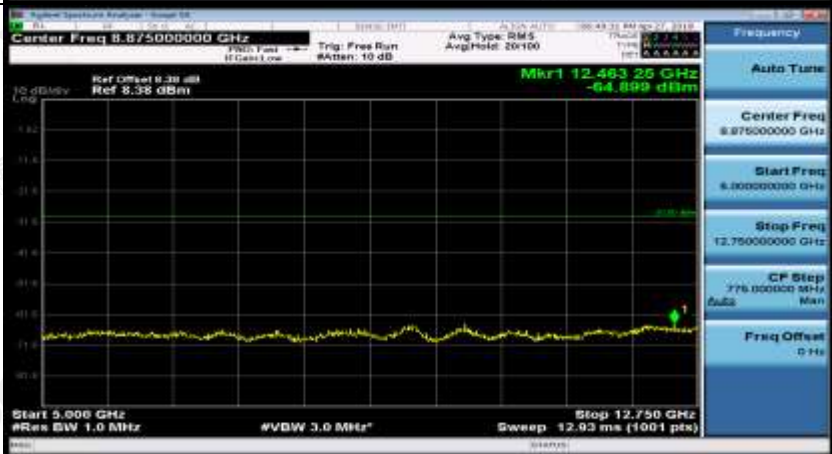
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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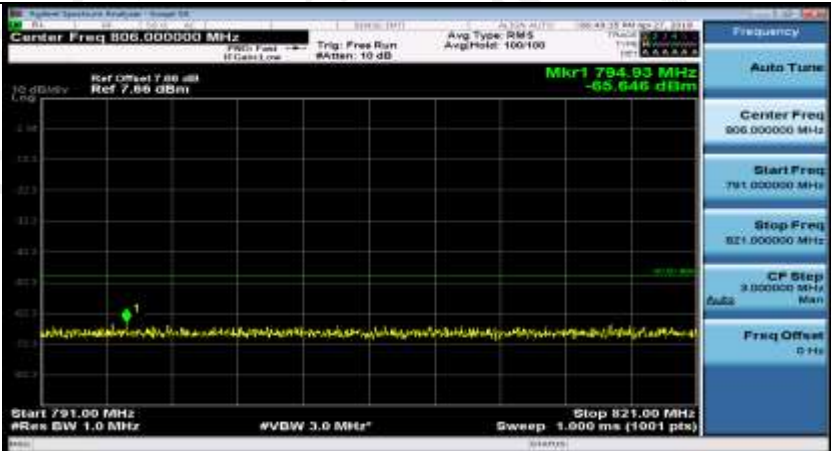
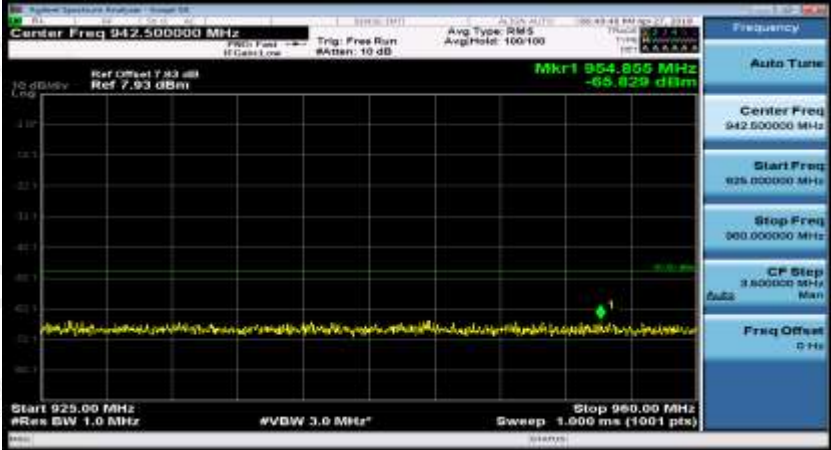
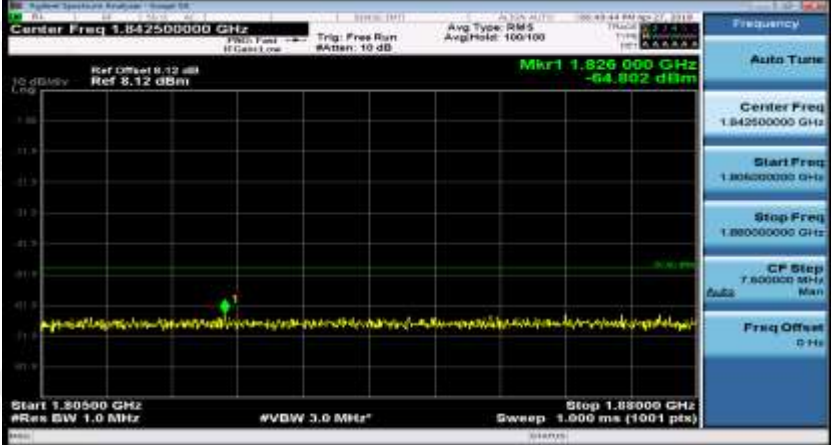
Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#0

General		
General		
General		

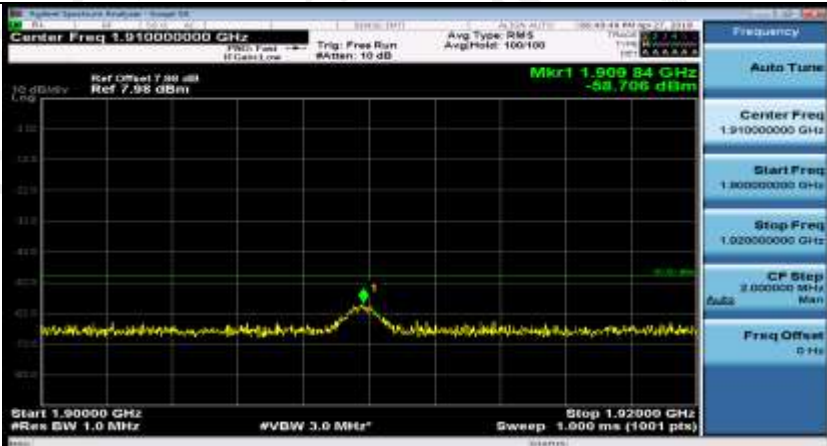
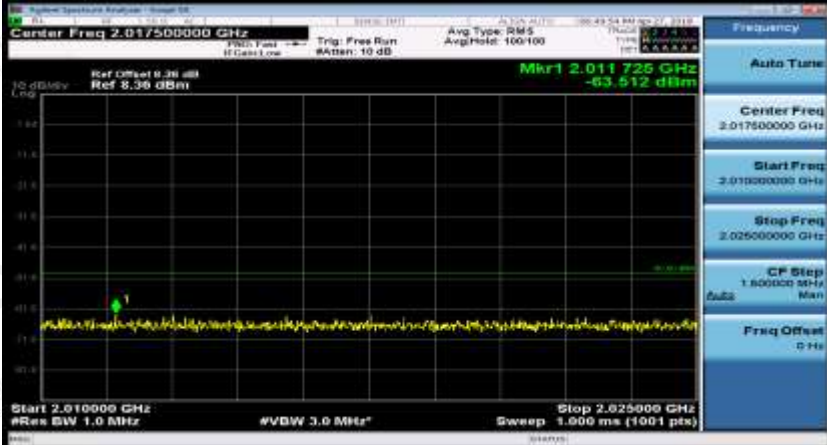
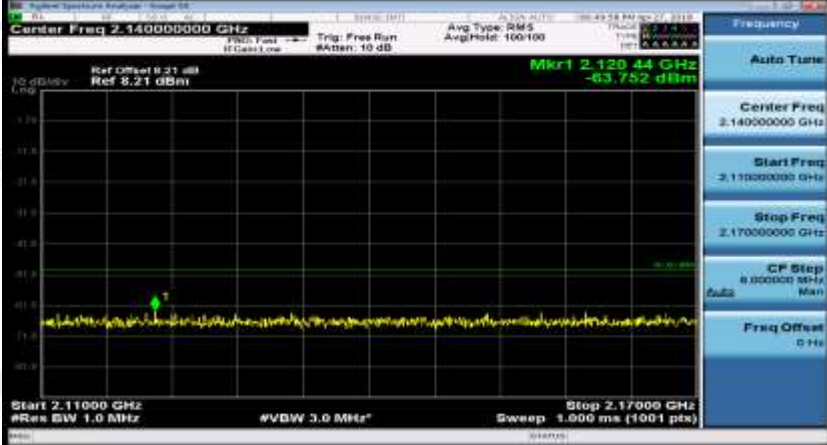
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General			
General			
General			

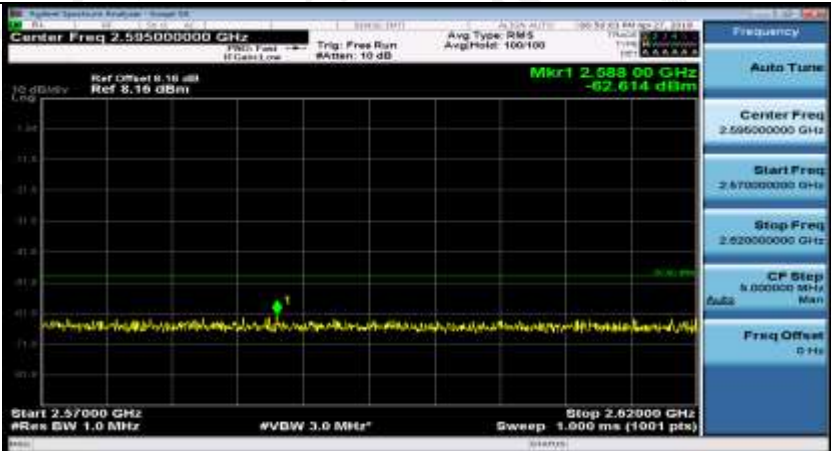

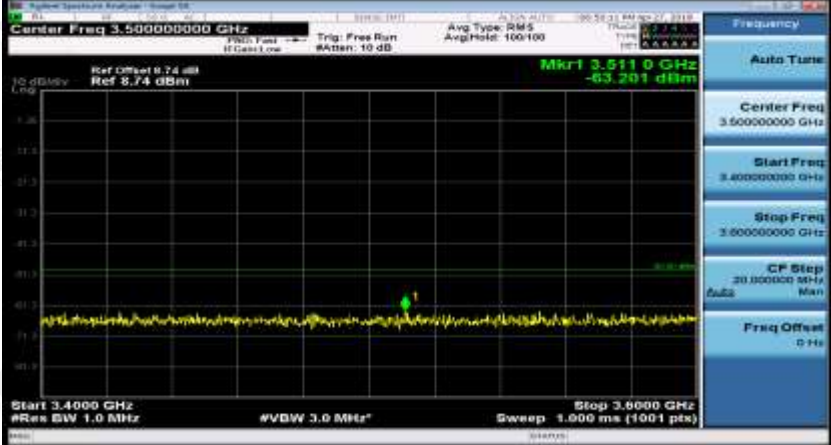
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

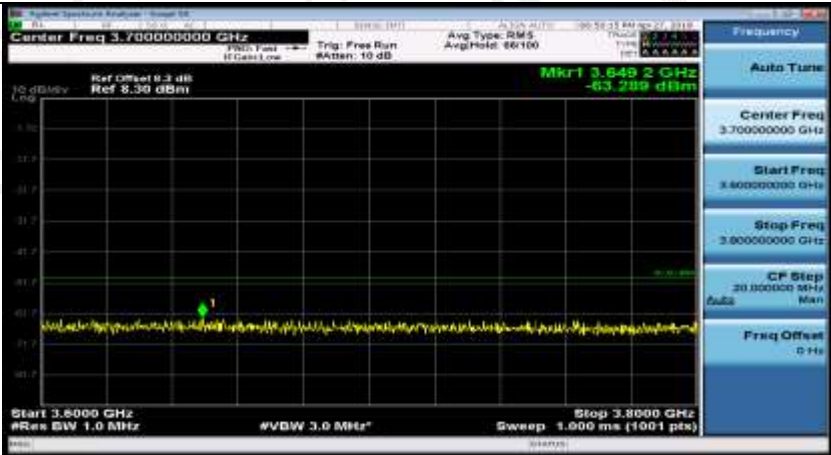
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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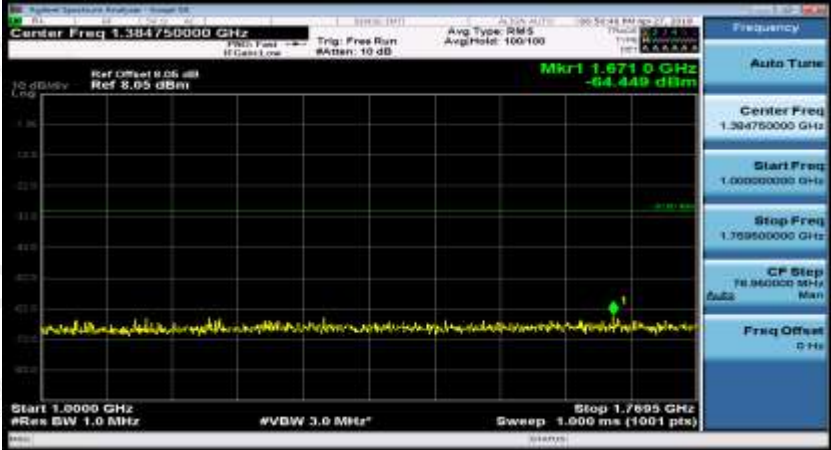
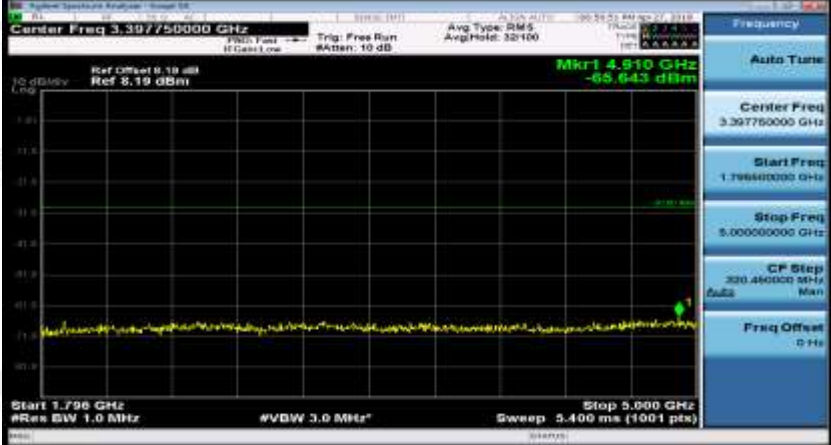
Co-existence		
Co-existence		
Co-existence		

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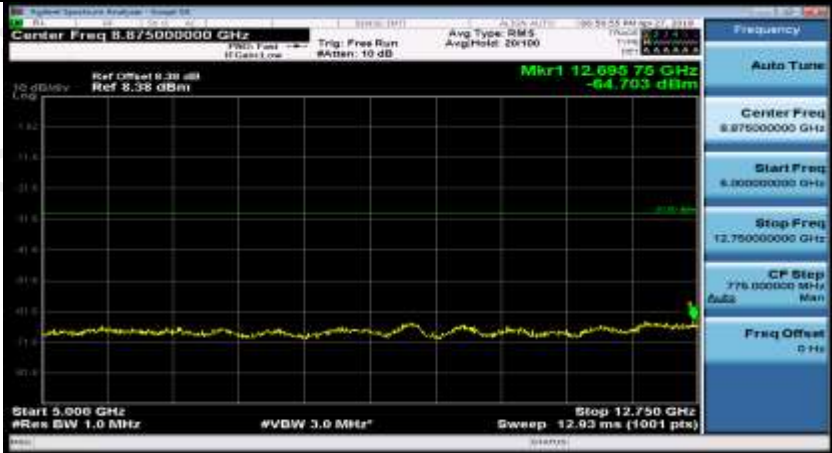
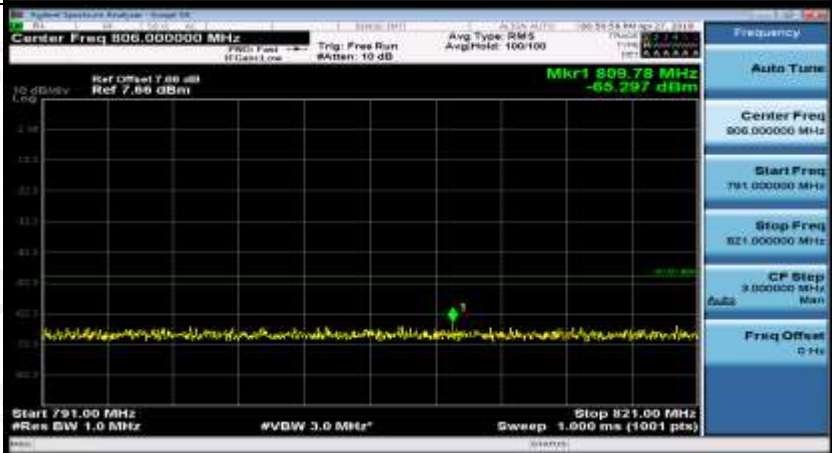
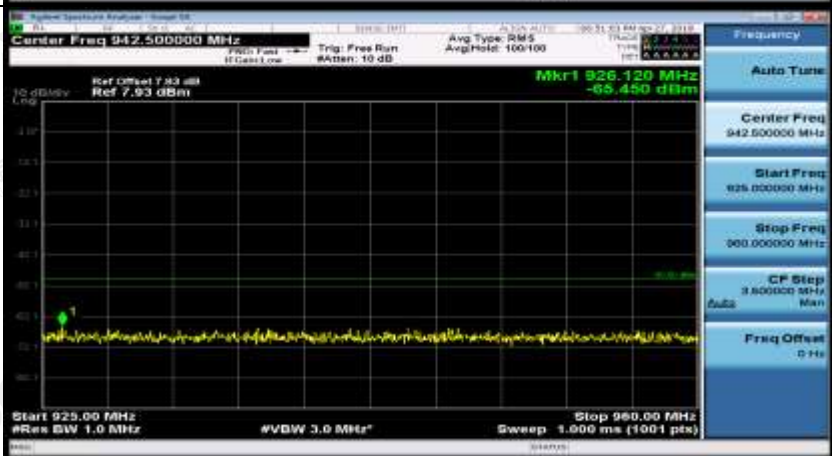
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

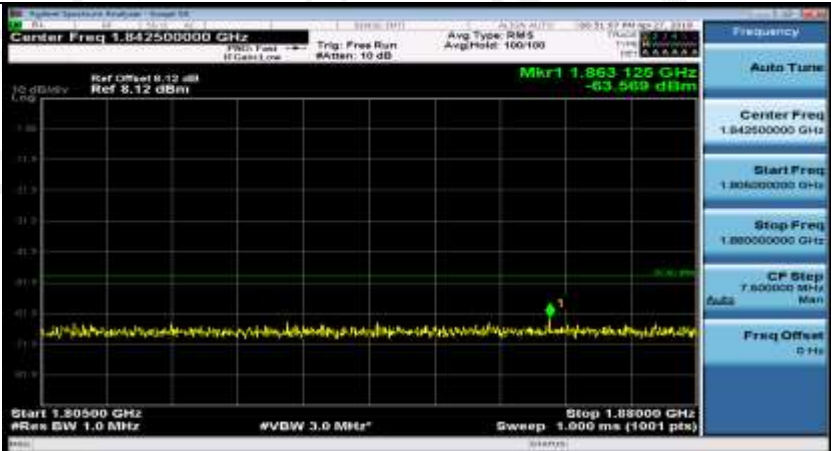
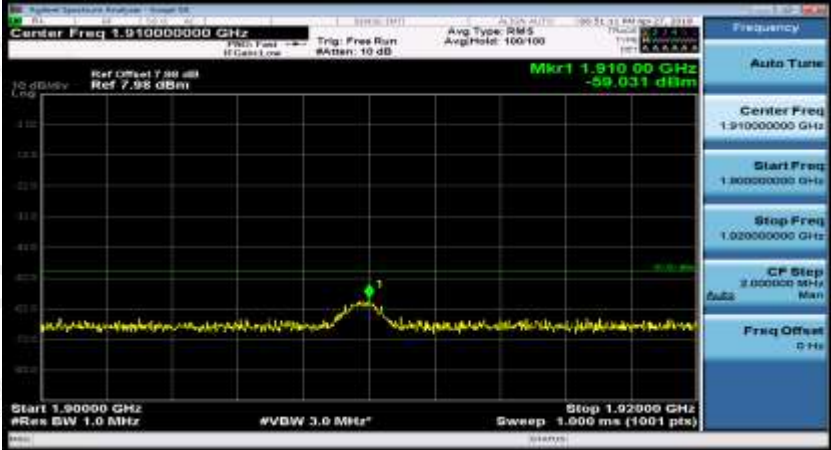
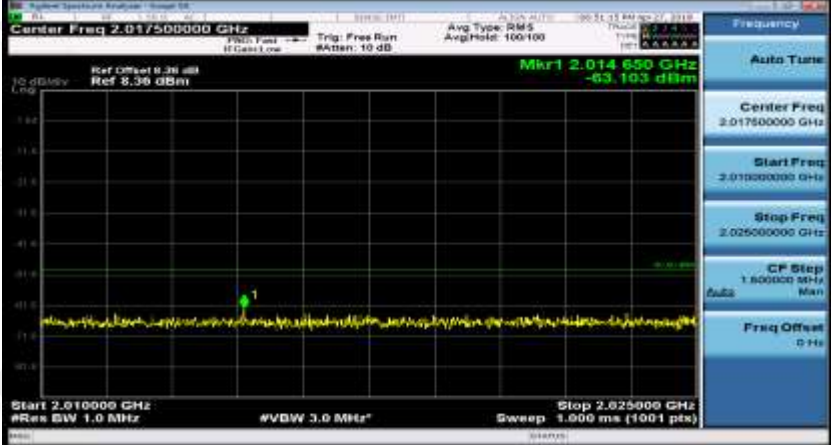
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General		
General		
General		

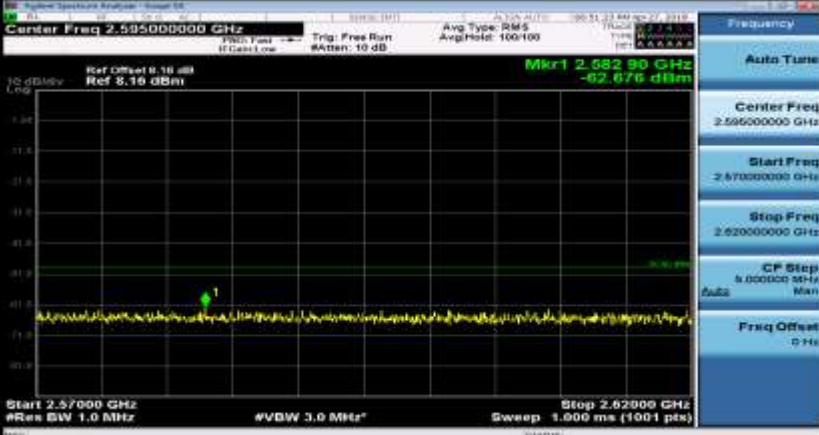
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General			
Co-existence			
Co-existence			

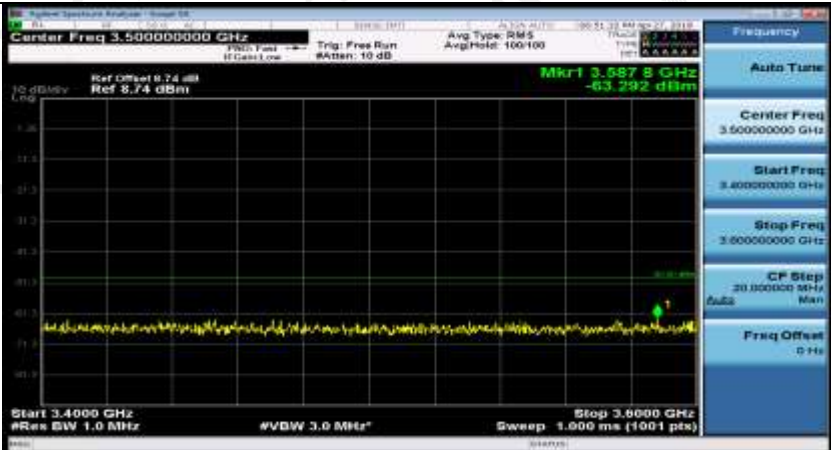
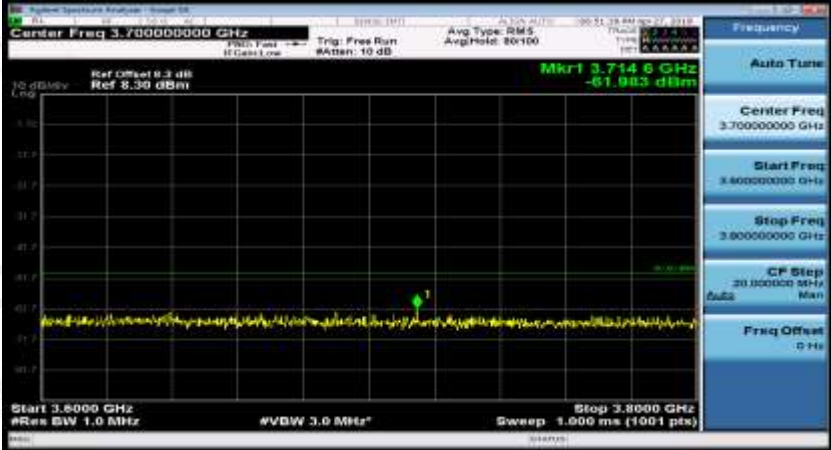
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Co-existence	
Co-existence	
Co-existence	

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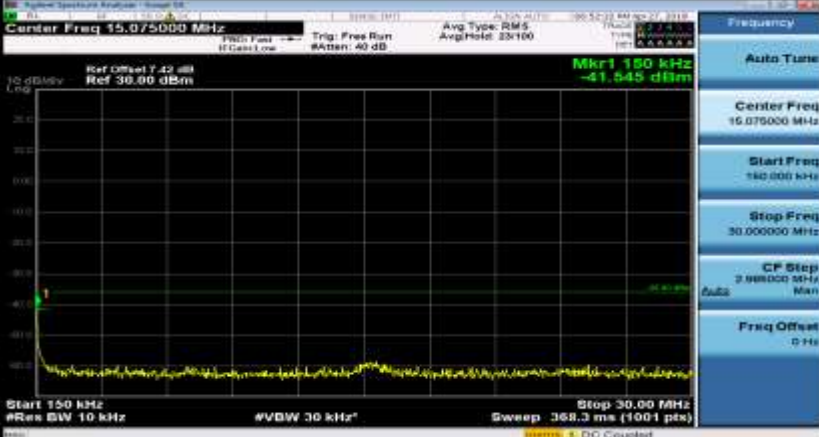
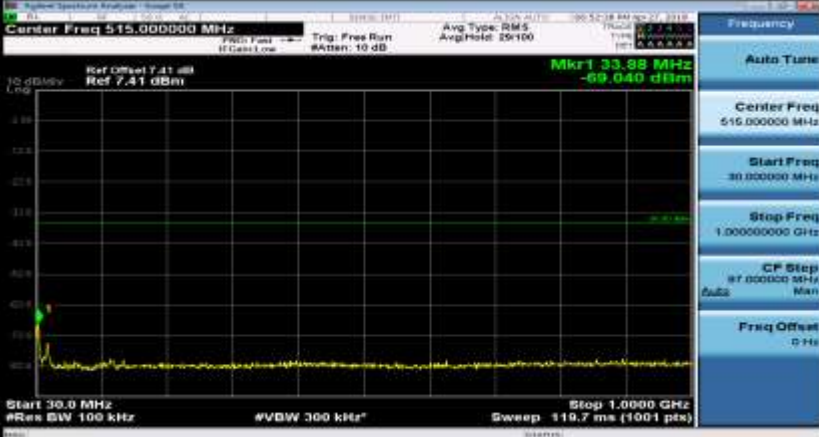
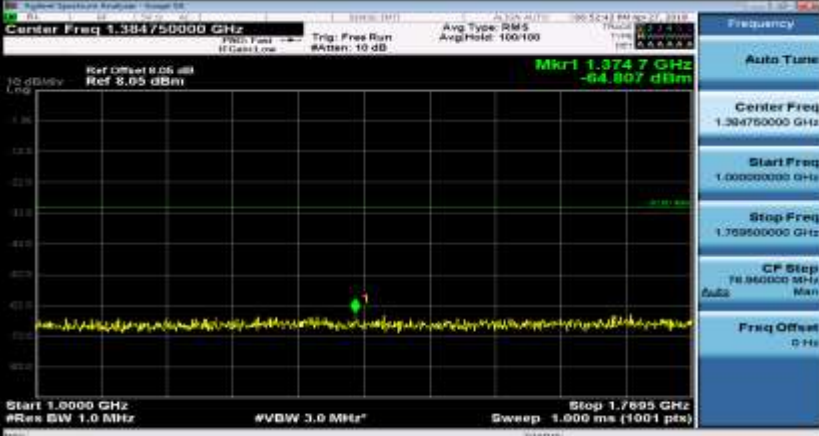
Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_FullIRB#0	
General	

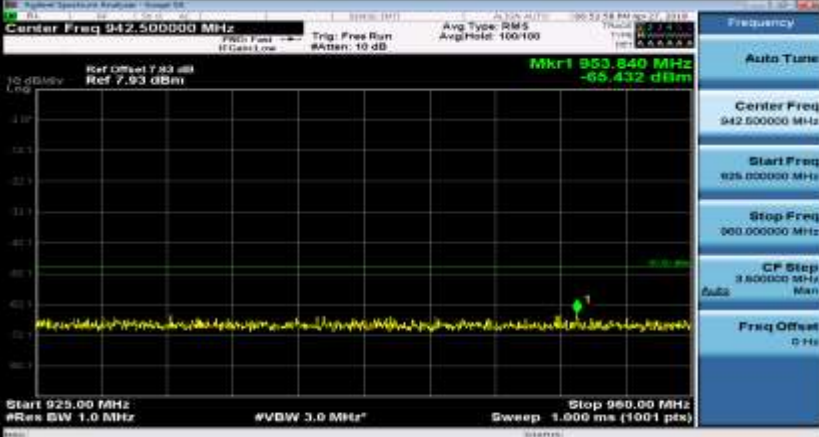
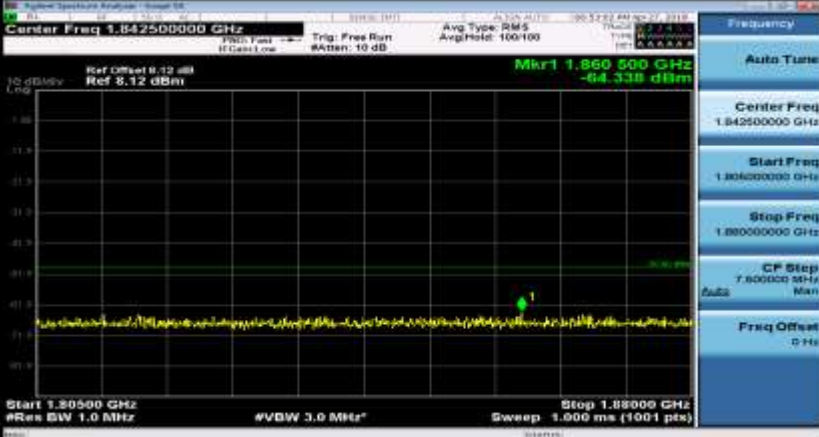

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General			
General			
General			

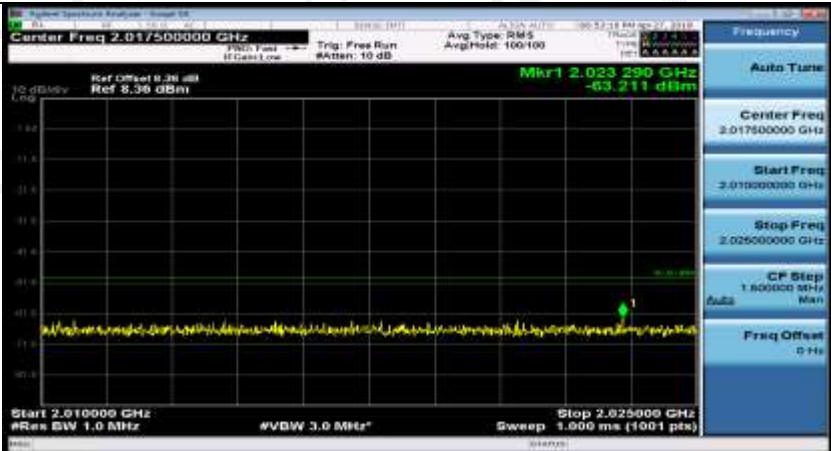
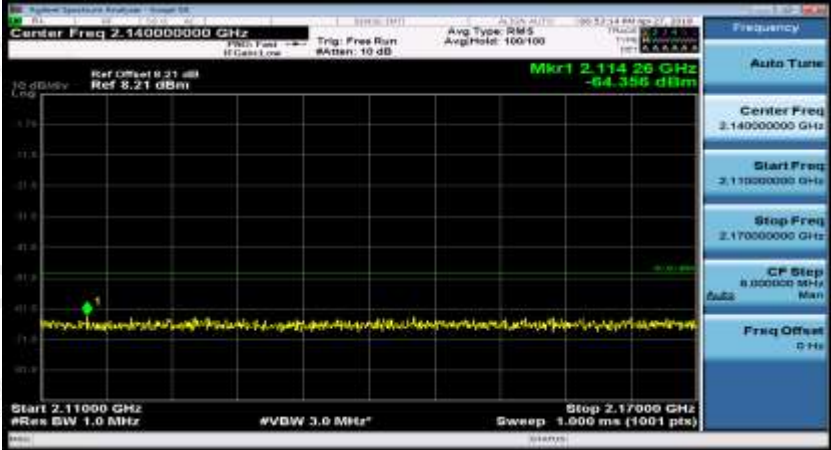
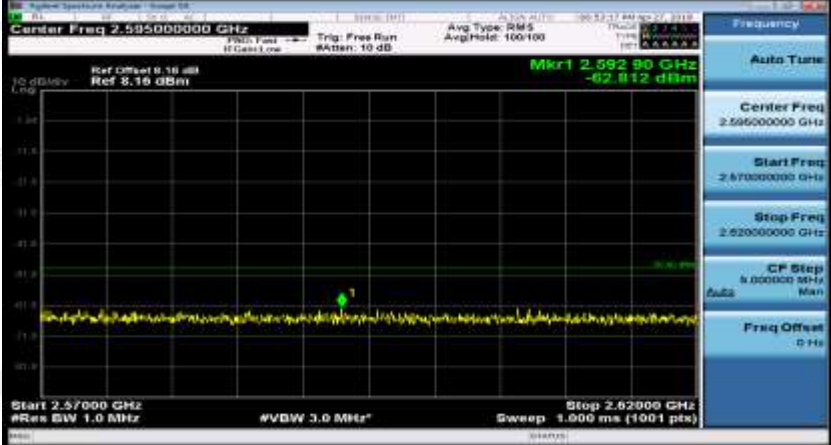
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General			
General			
Co-existence			

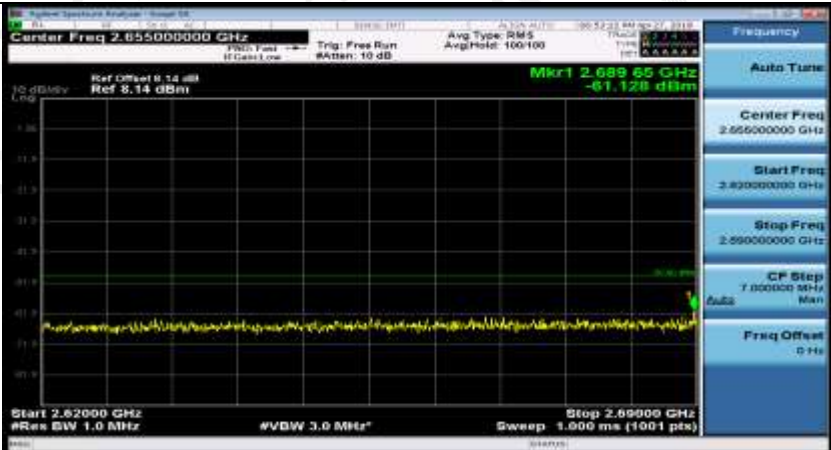
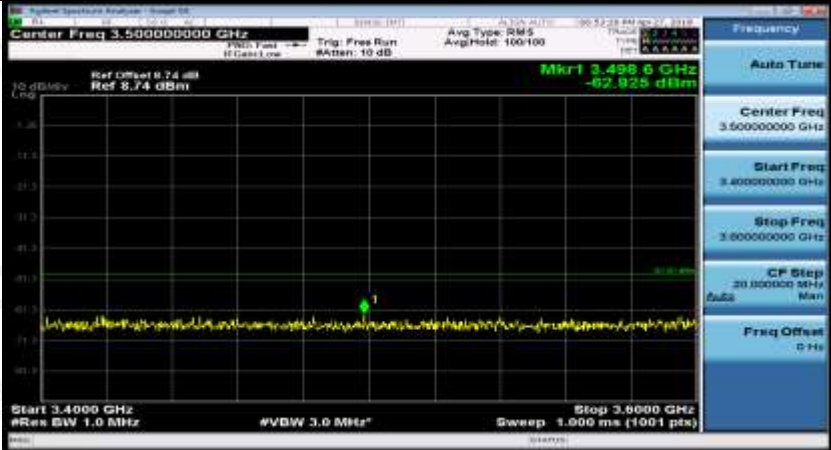

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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

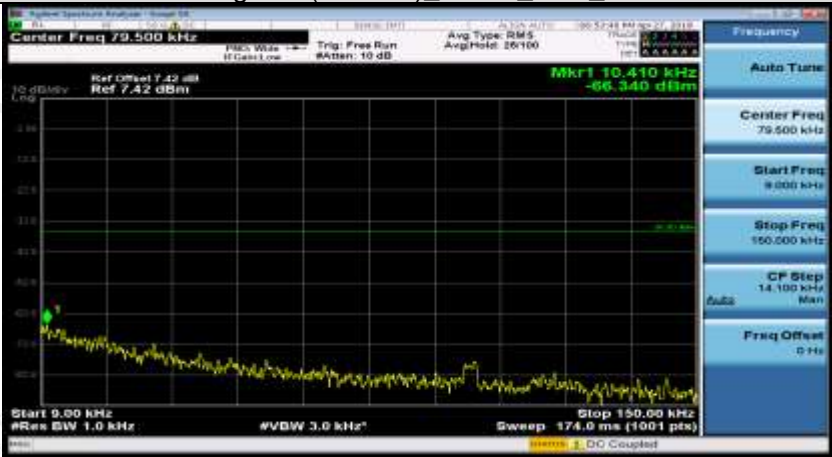
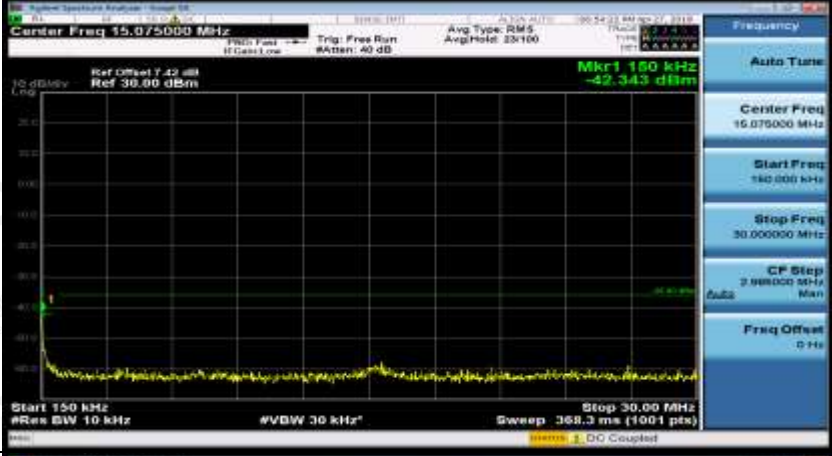
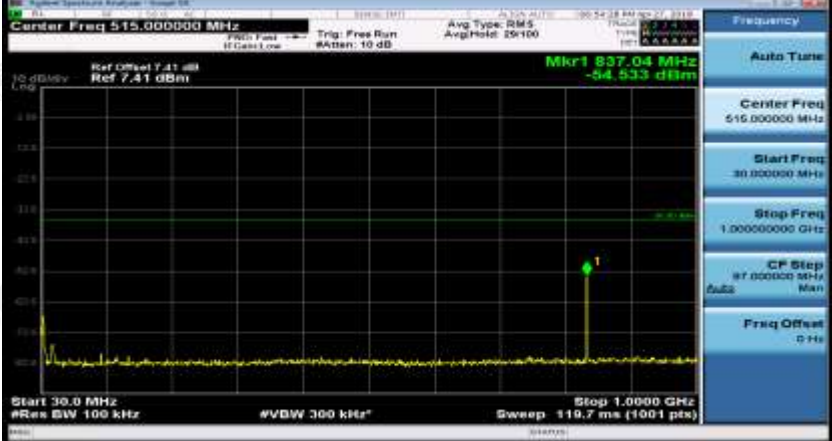
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Co-existence	
Co-existence	
Co-existence	
Additional	NA

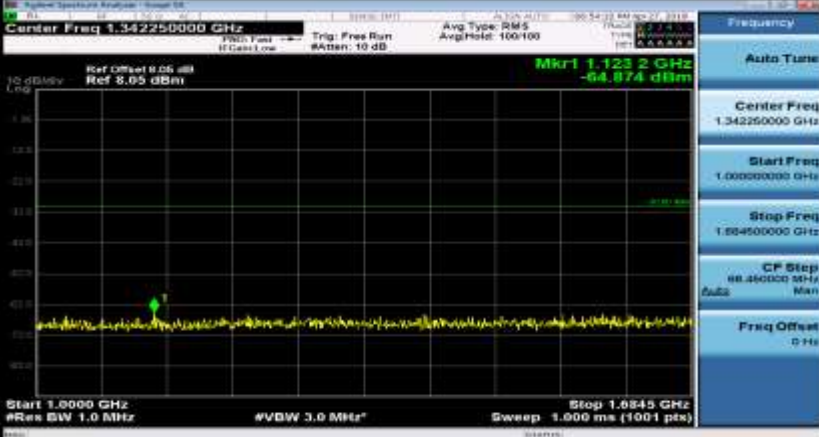


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Channel Bandwidth= (20 MHz)

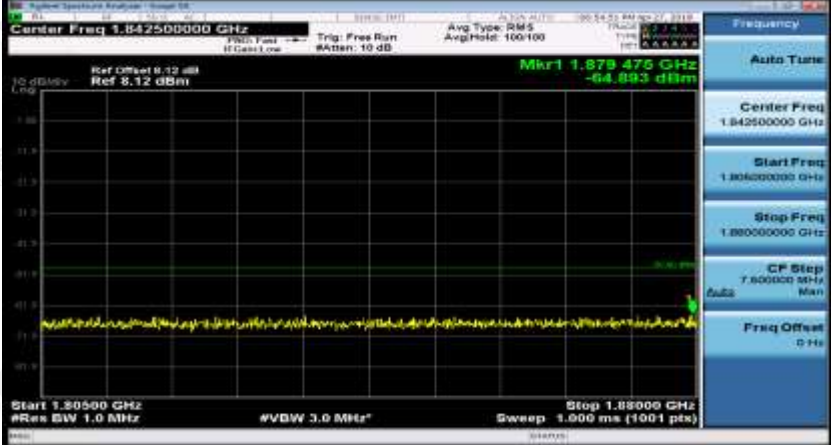
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0

General		
General		
General		

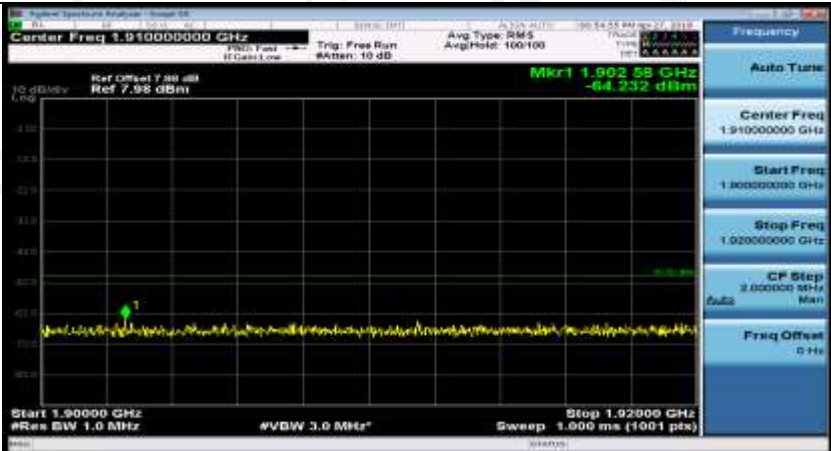
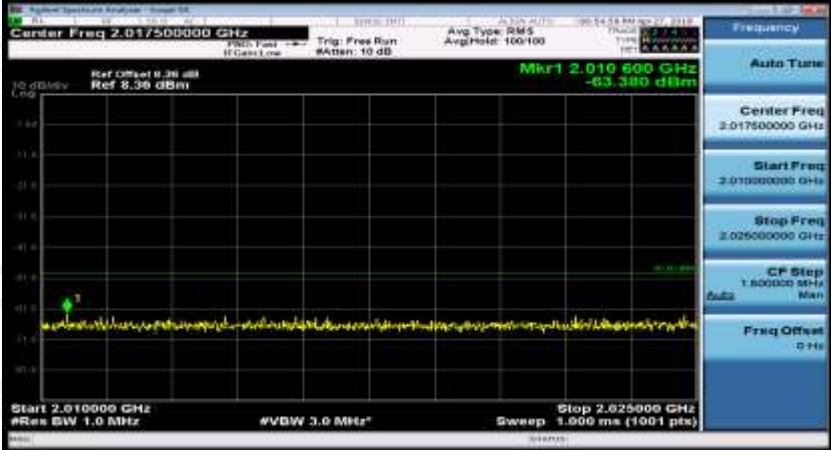
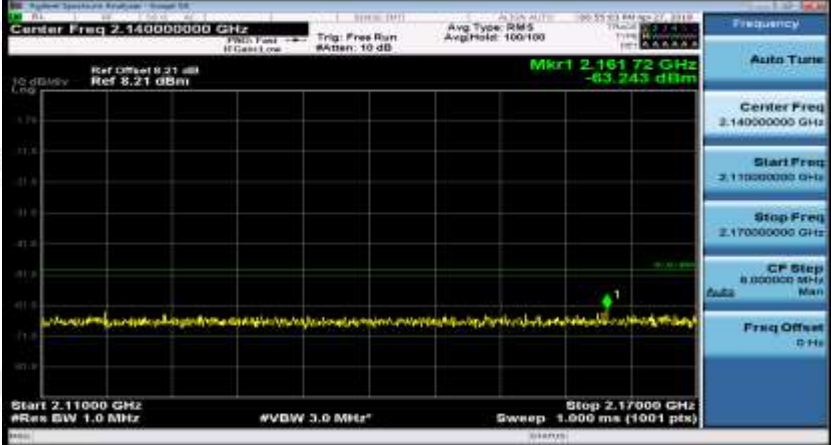
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General			
General			
General			

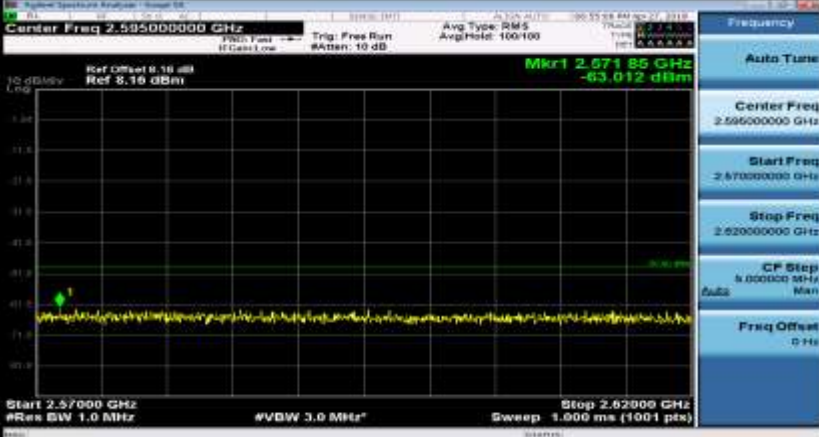
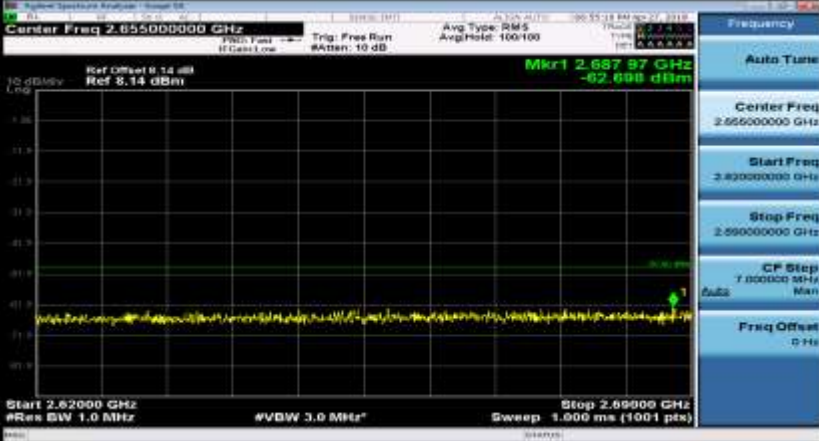
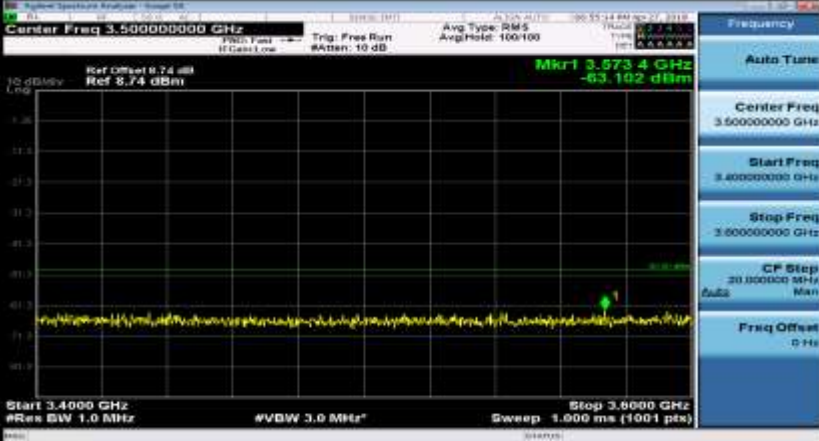
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Co-existence	
Co-existence	
Co-existence	

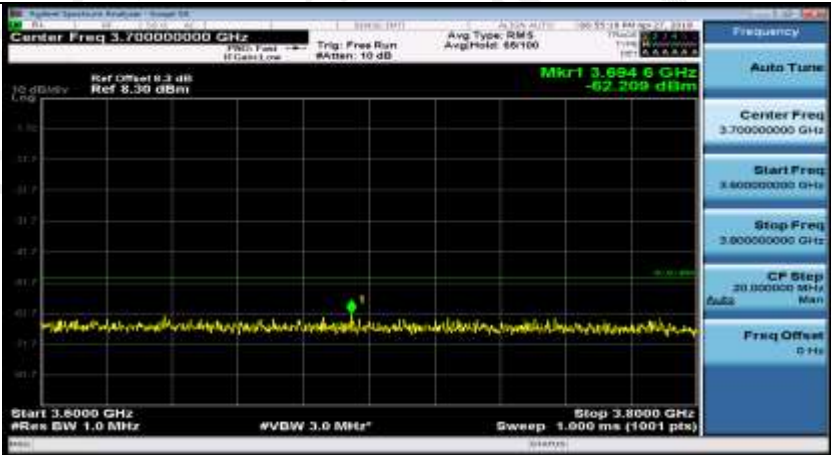
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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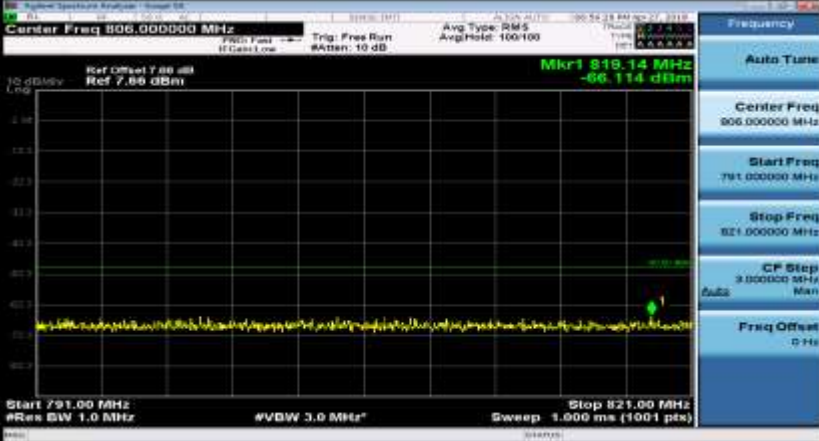
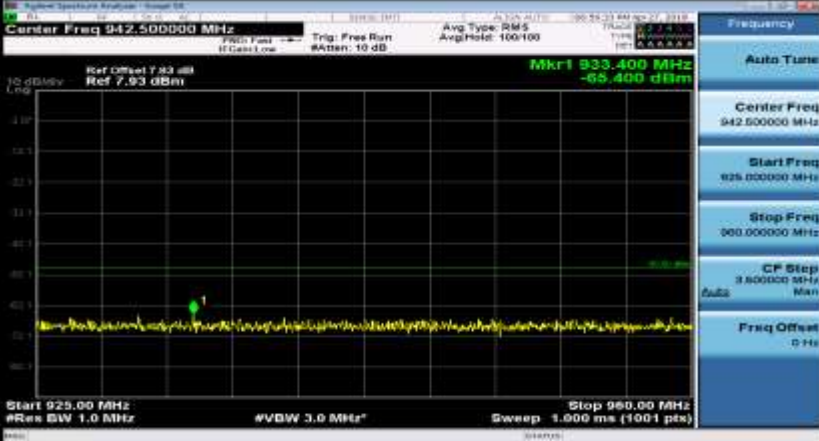
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	
General	

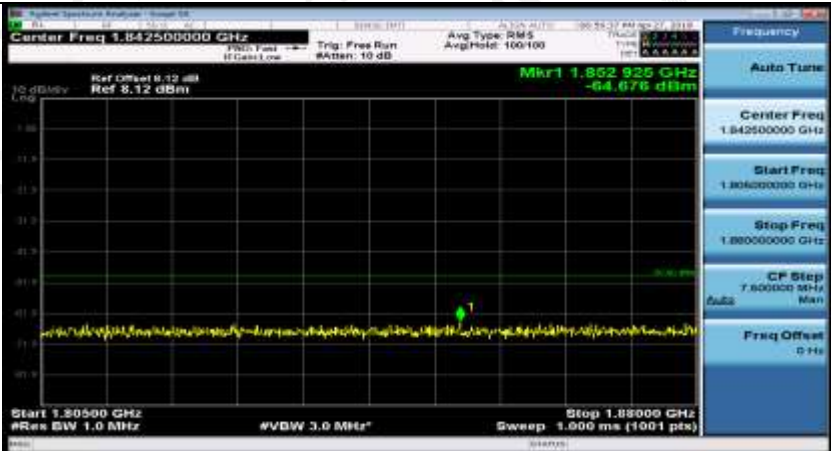
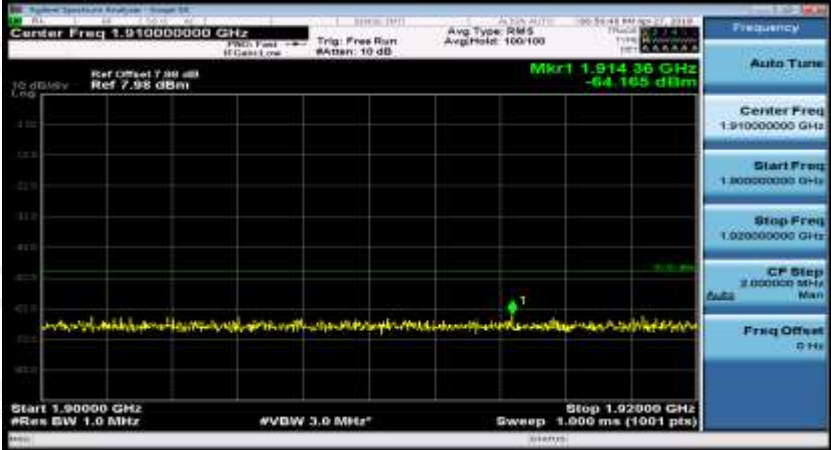
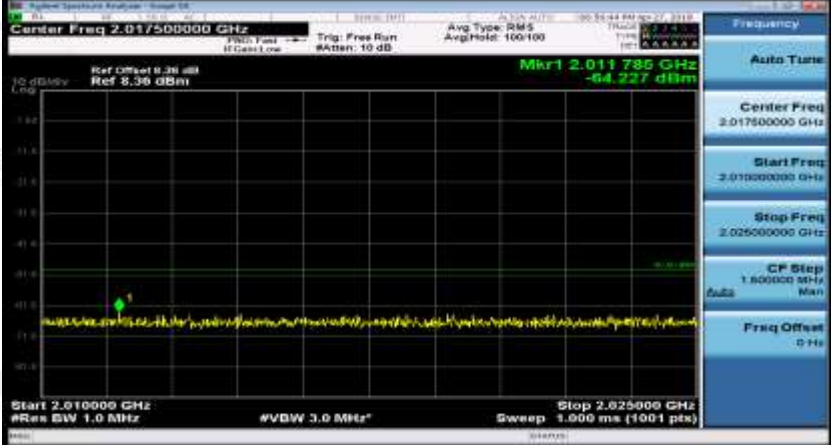
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General			
General			
General			

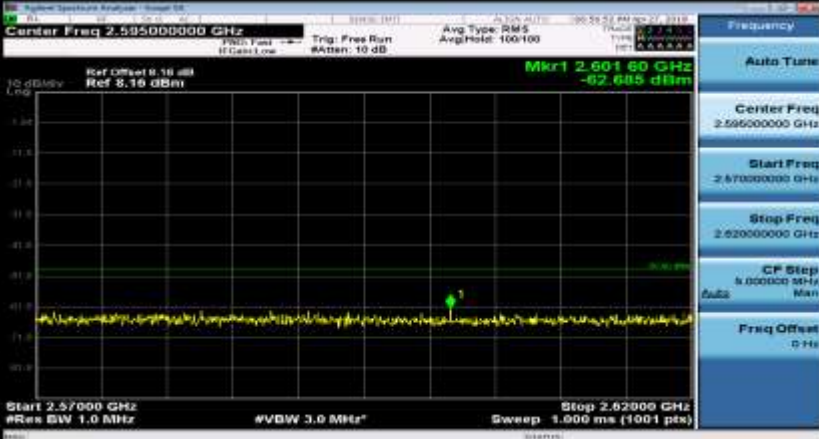
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General			
Co-existence			
Co-existence			

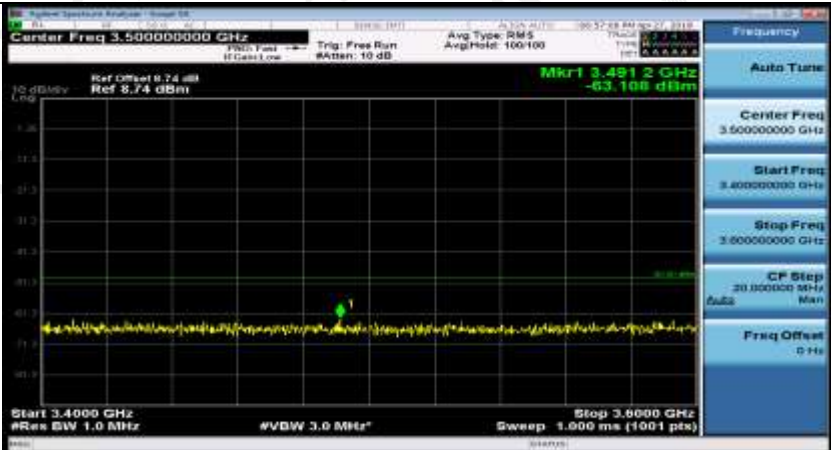
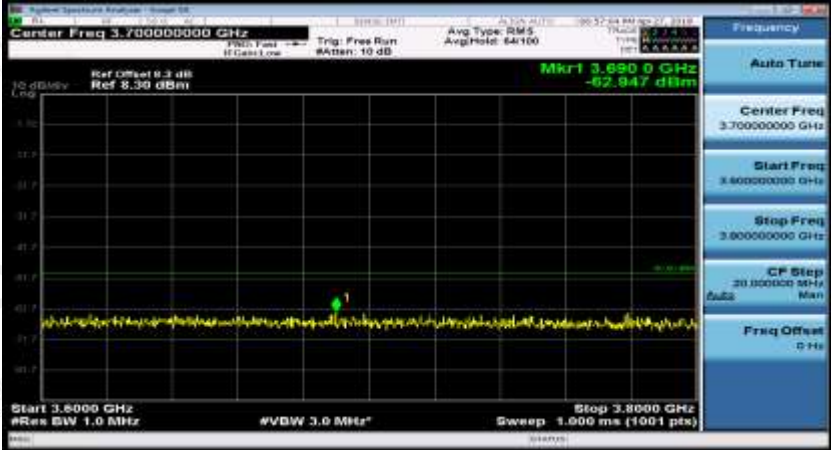
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Co-existence	
Co-existence	
Co-existence	

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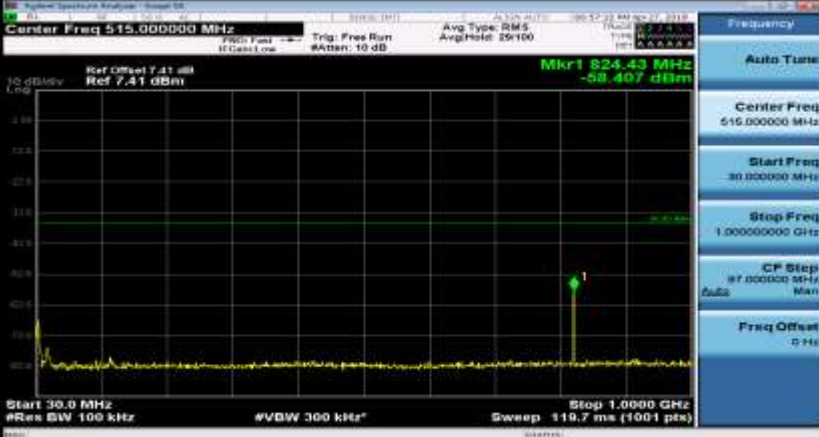

Co-existence			
Co-existence			
Co-existence			

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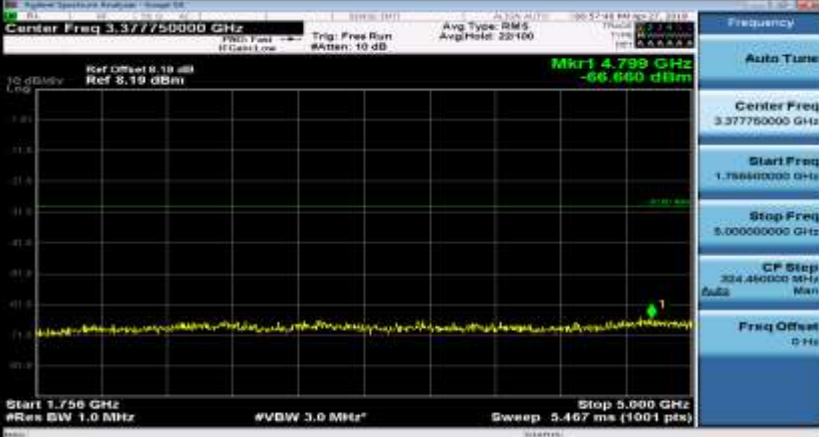
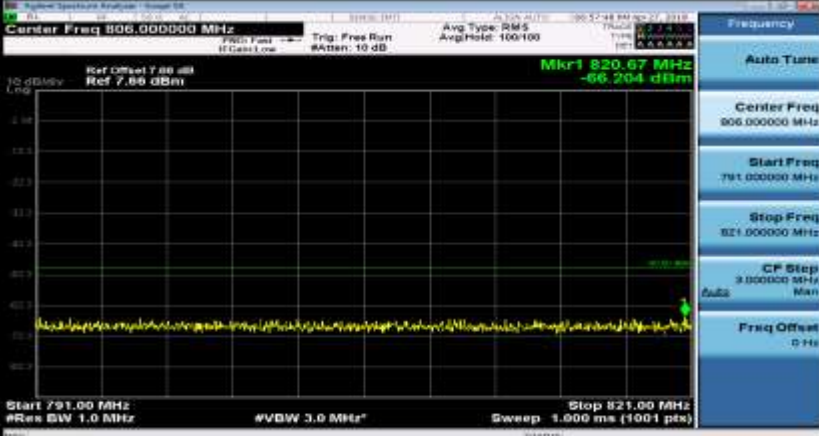
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

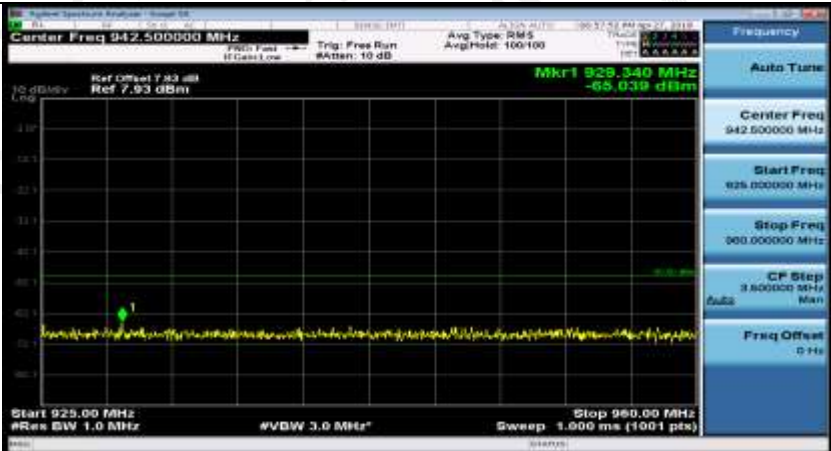
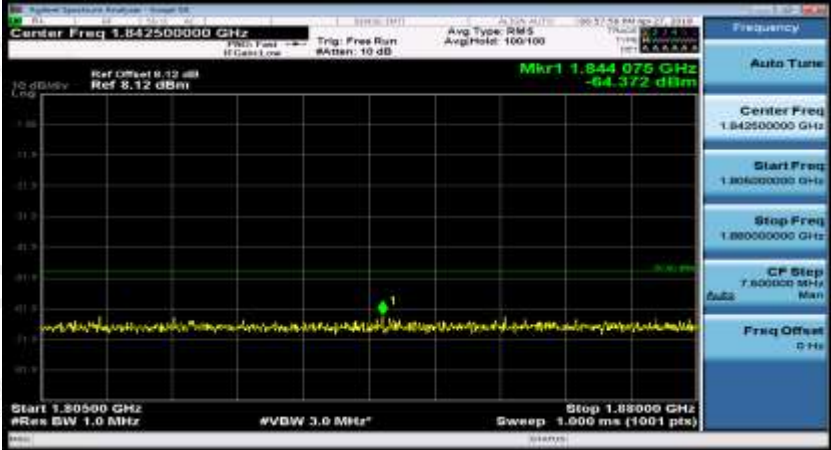
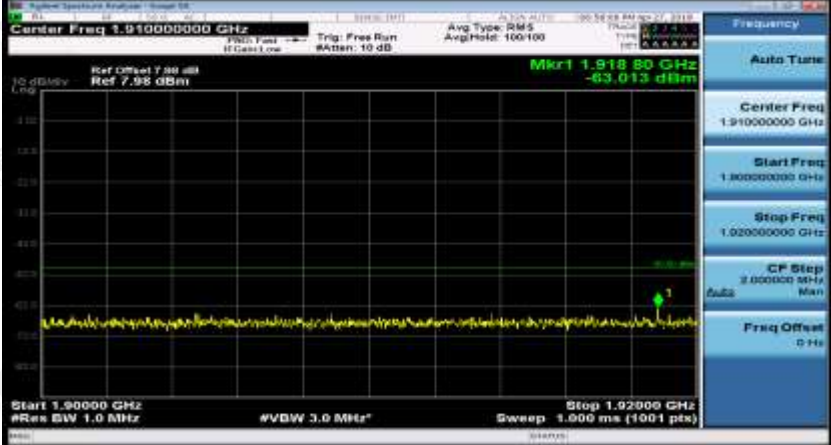
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General			
General			
General			

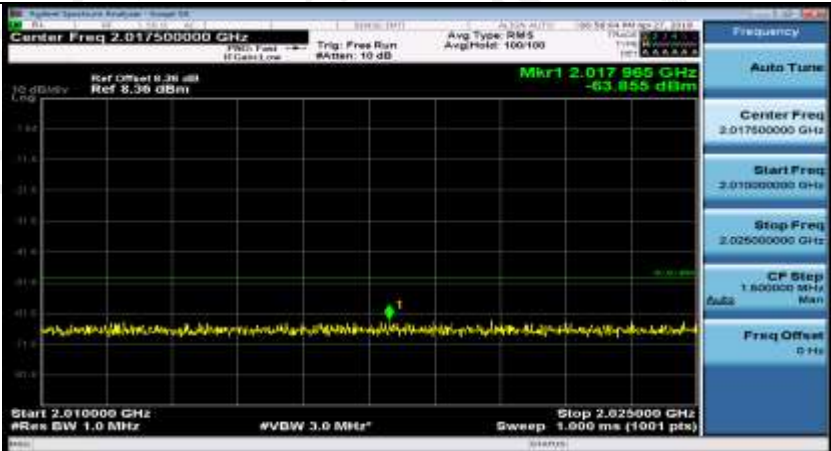
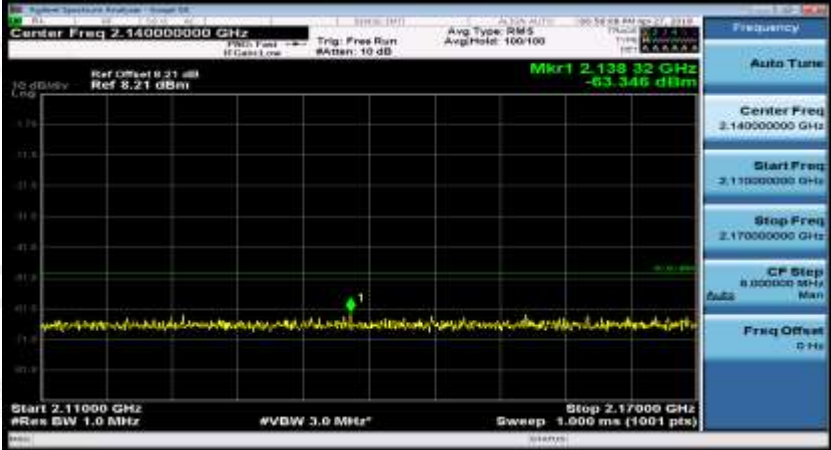
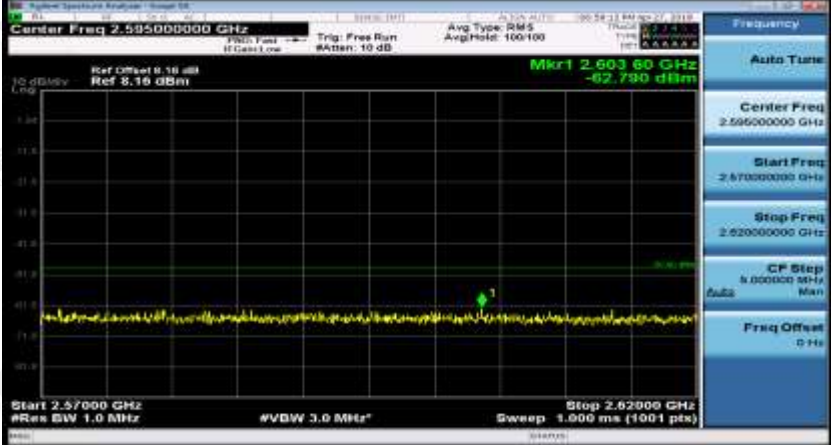
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General			
General			
Co-existence			

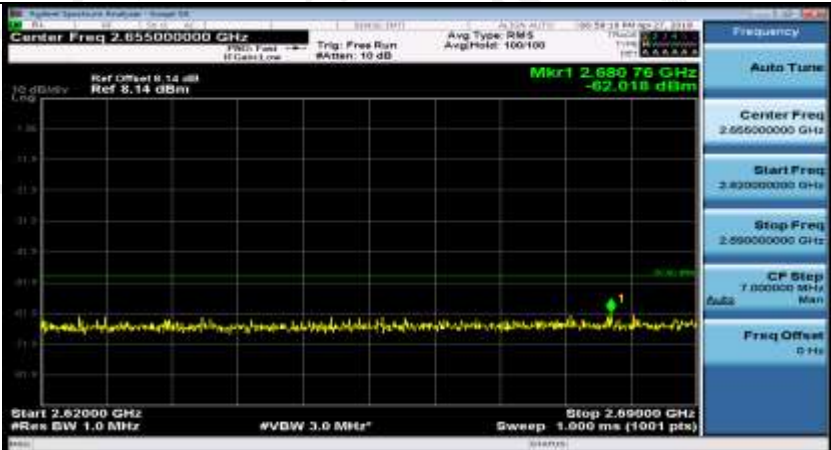
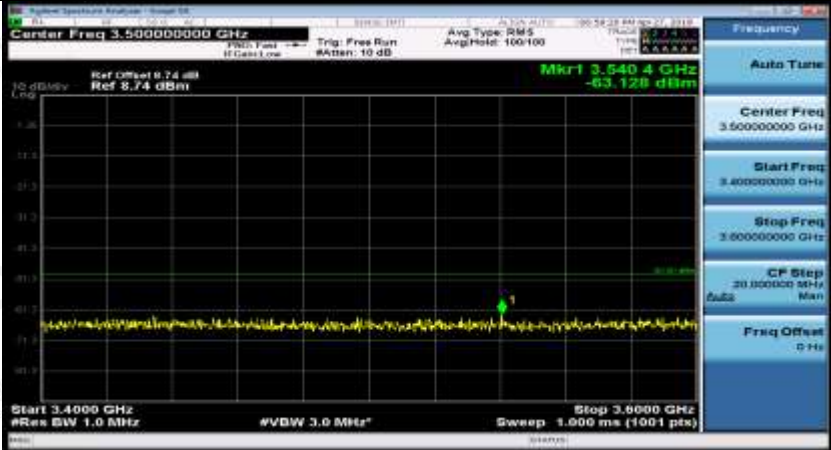
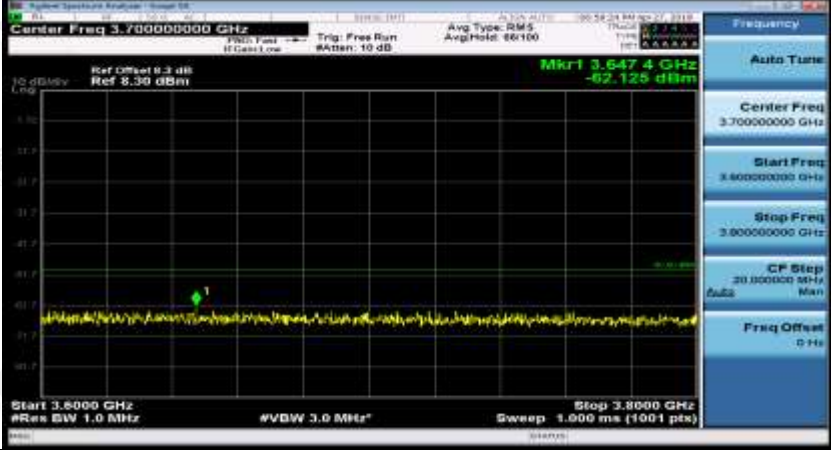
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Co-existence	
Co-existence	
Co-existence	

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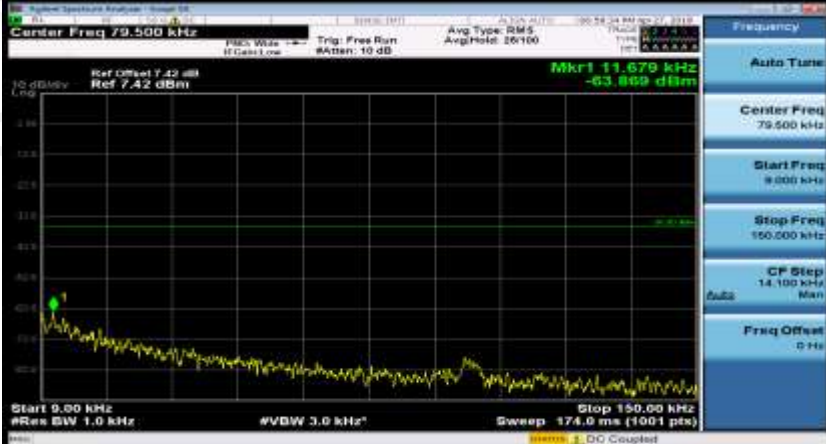

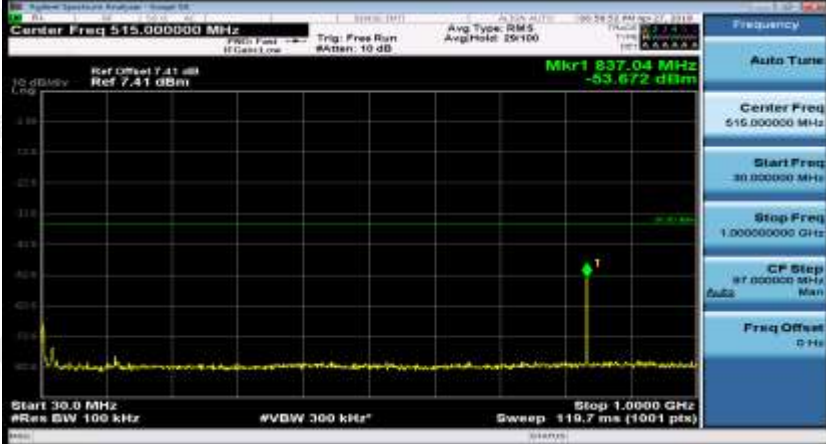
Co-existence	
Co-existence	
Co-existence	

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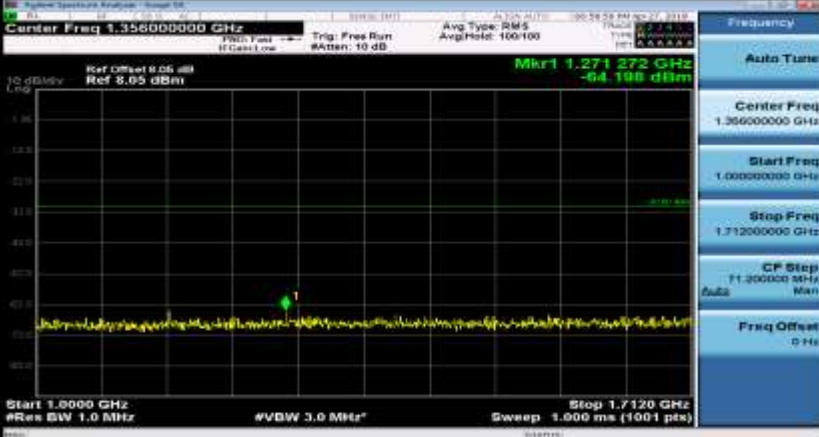


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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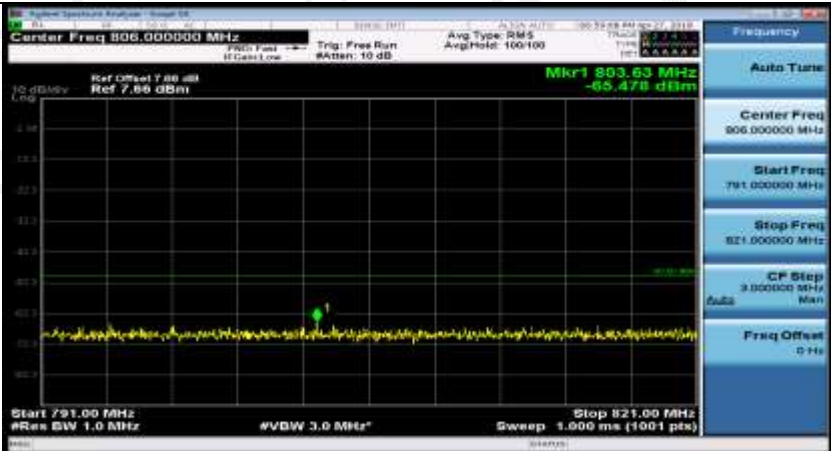
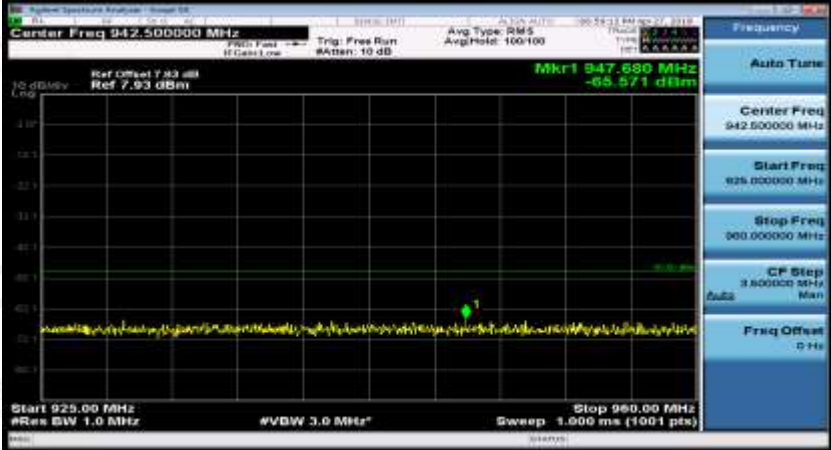
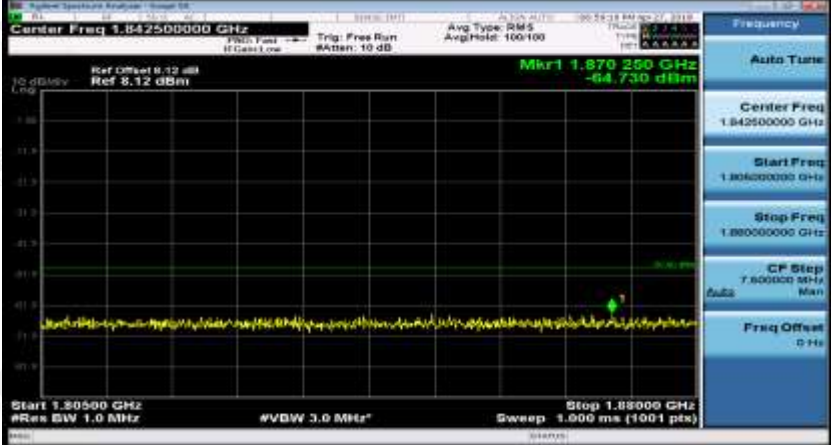
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General		
General		
General		

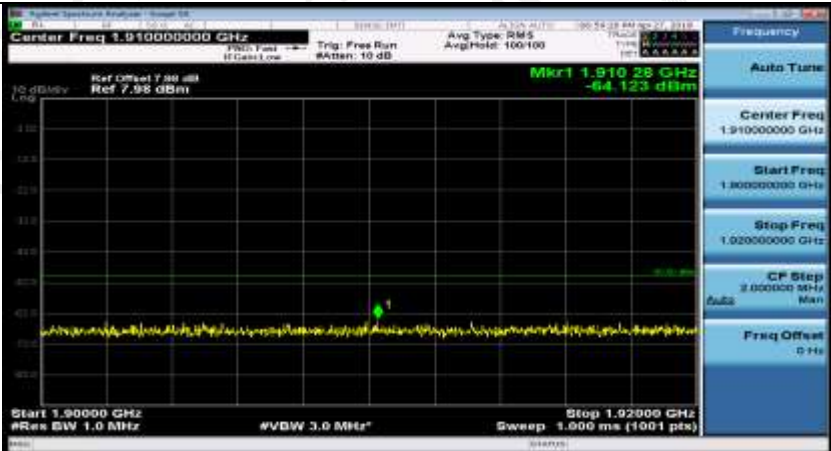
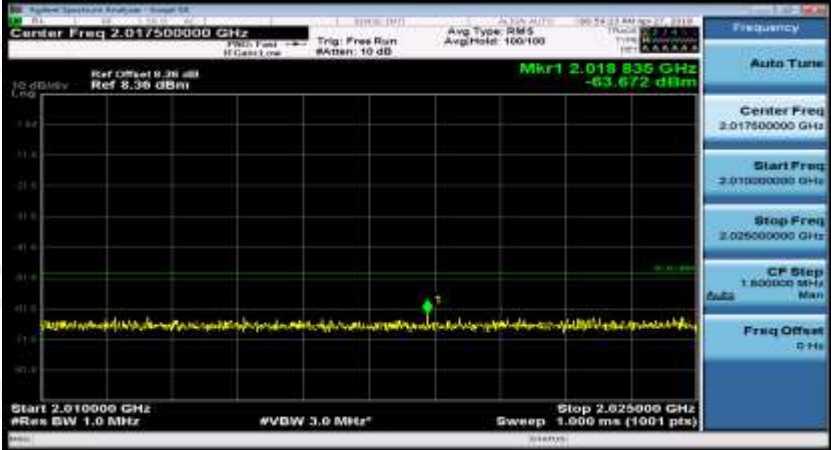
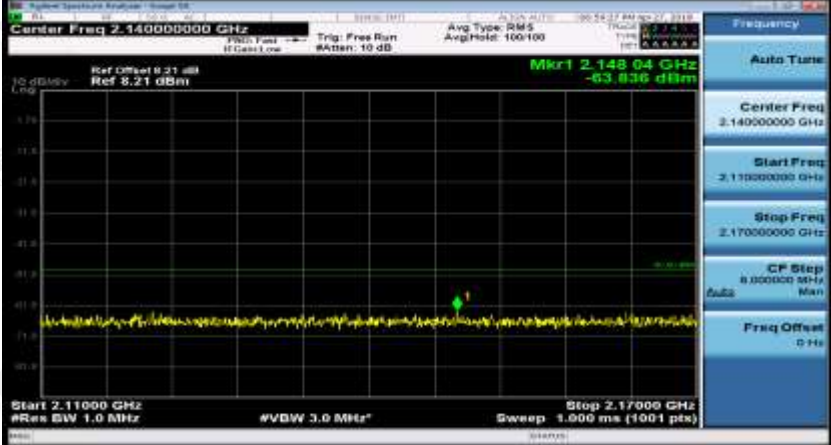
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General			
General			
General			

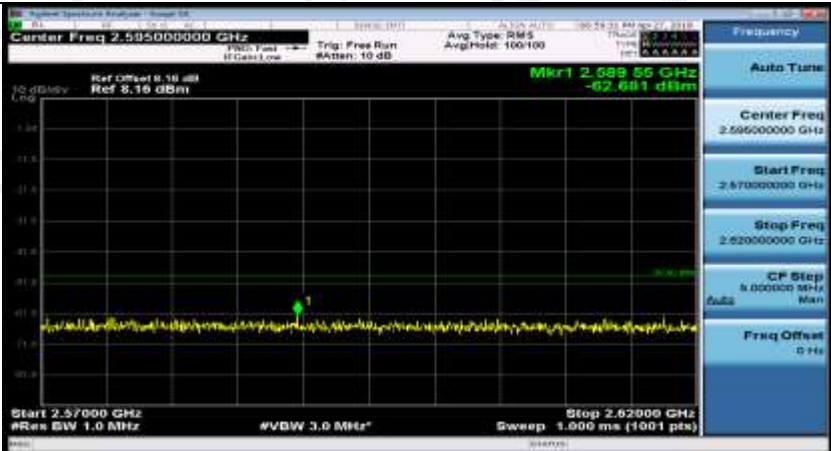

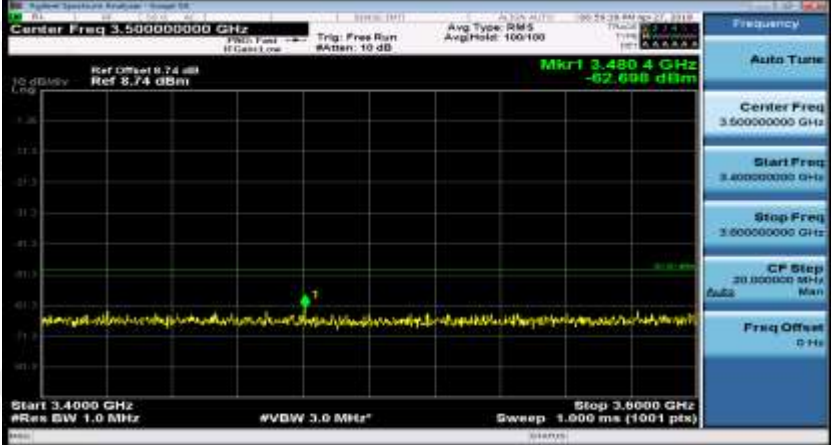
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Co-existence	
Co-existence	
Co-existence	

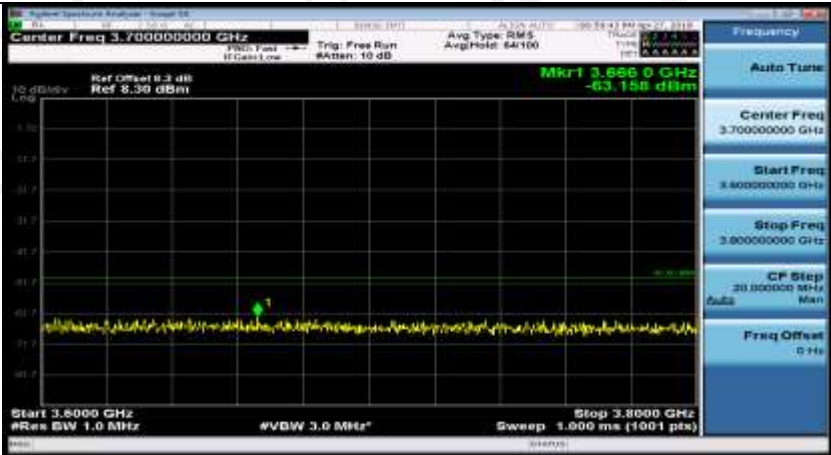
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

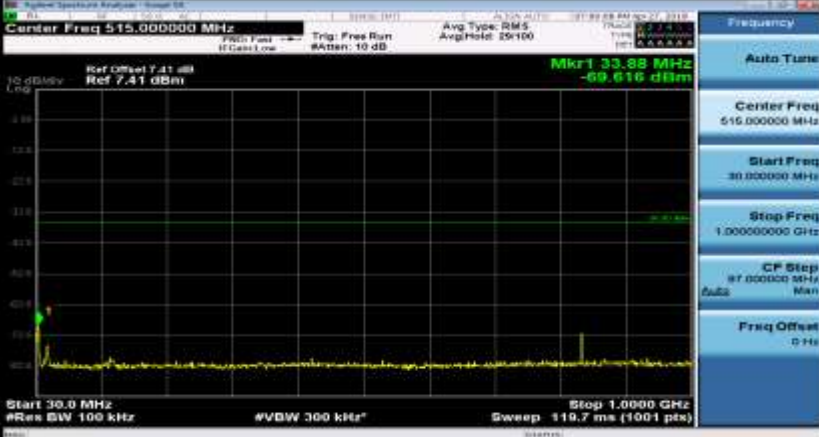
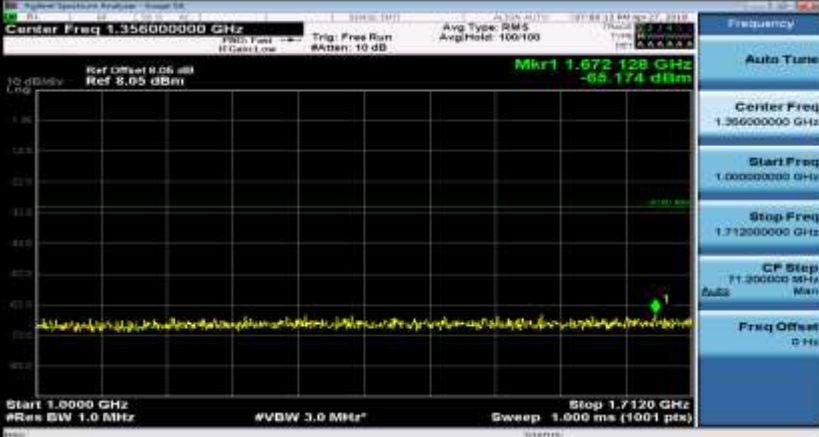

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Co-existence	
Additional	NA

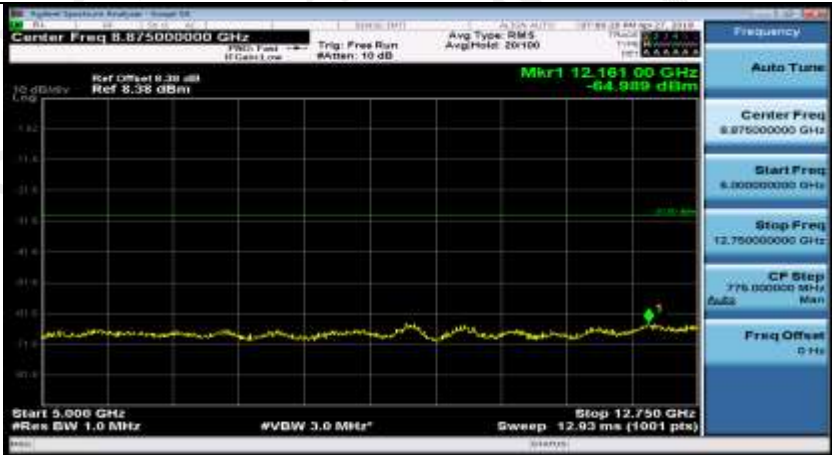
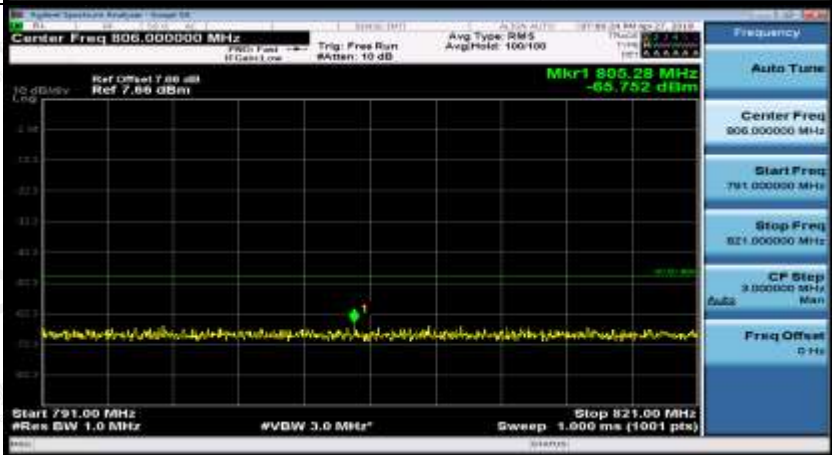
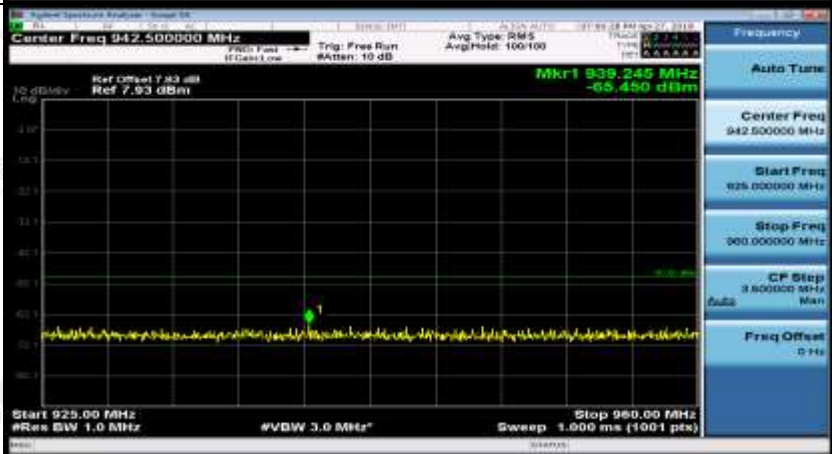
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max

General	
General	

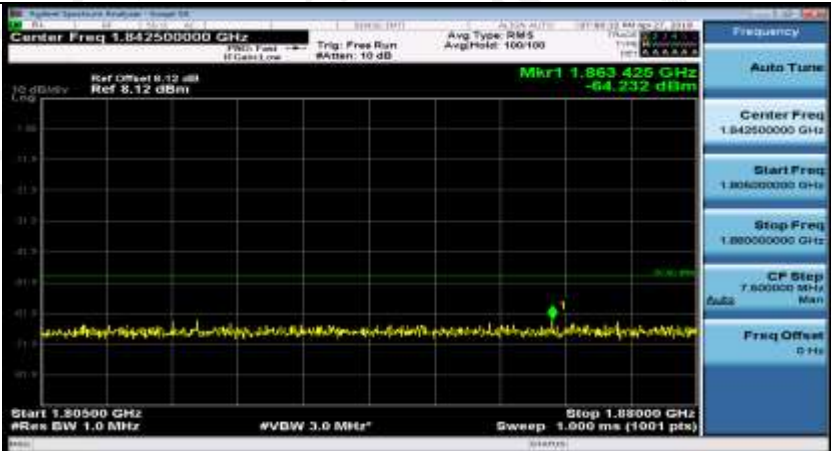
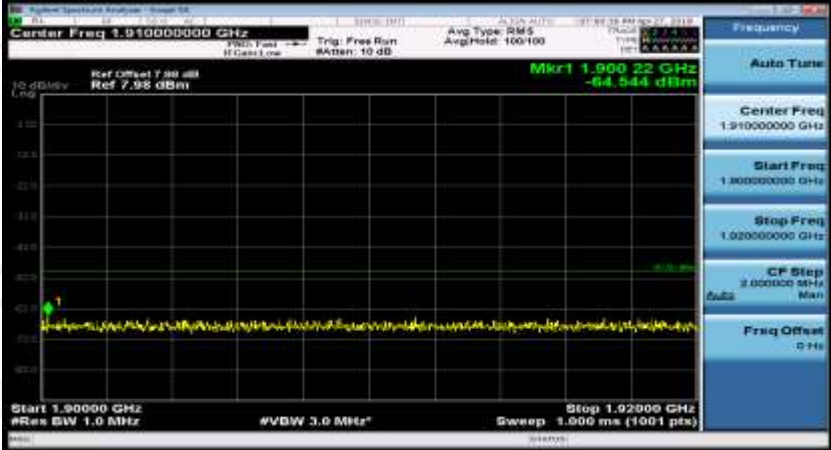
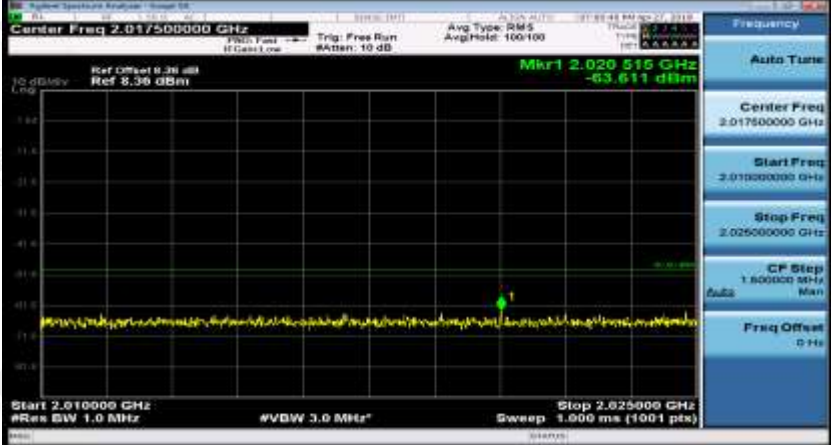
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General			
General			
General			


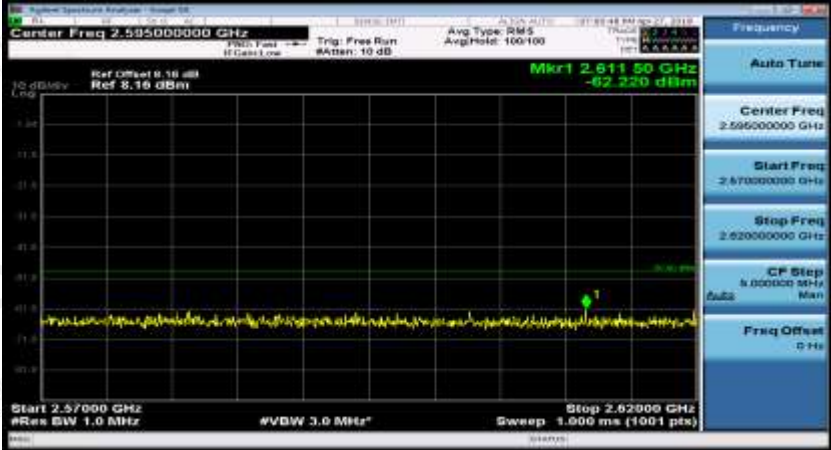
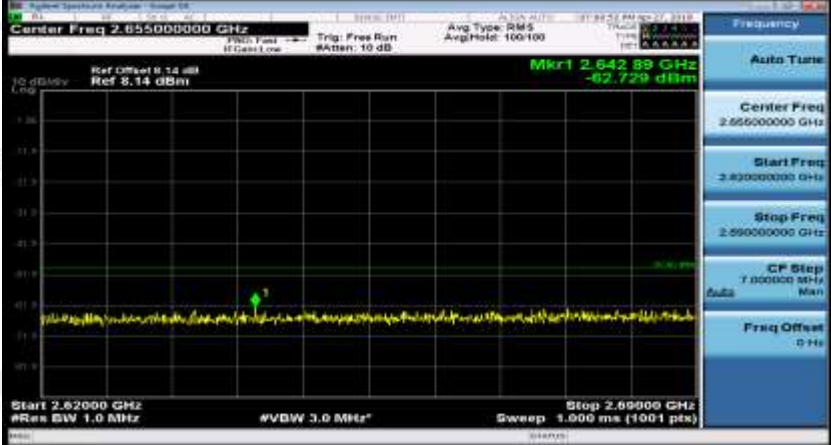
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General		 <p>Center Freq 8.87500000 GHz Ref Offset 0.38 dBm Ref 8.38 dBm Mkr1 12.16100 GHz -64.989 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 12.93 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 806.000000 MHz Ref Offset 1.86 dBm Ref 7.86 dBm Mkr1 806.28 MHz -65.752 dBm Start 791.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 942.500000 MHz Ref Offset 1.93 dBm Ref 7.93 dBm Mkr1 939.245 MHz -65.450 dBm Start 925.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	

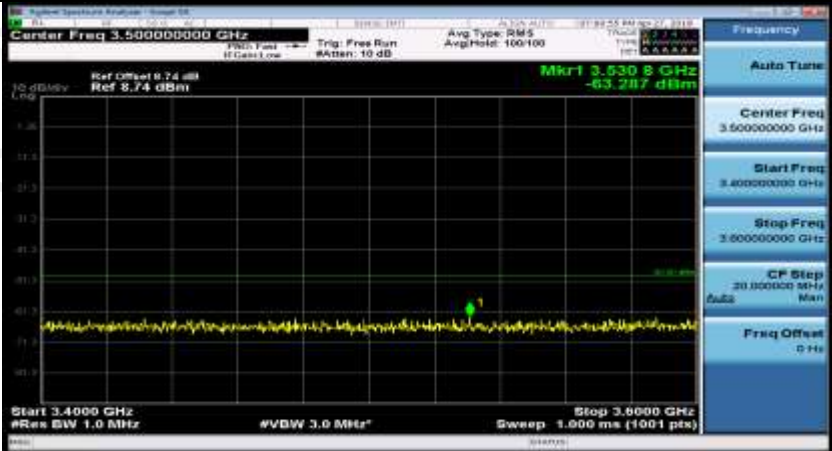
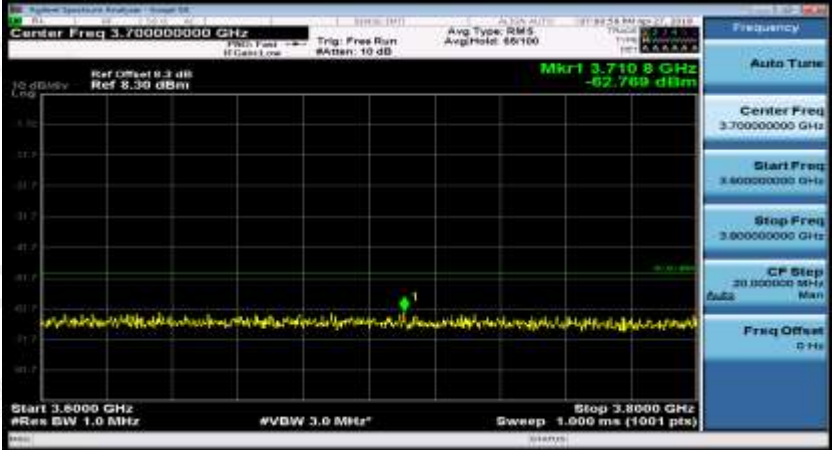
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Co-existence	
Co-existence	
Co-existence	

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Co-existence		
Co-existence		
Co-existence		


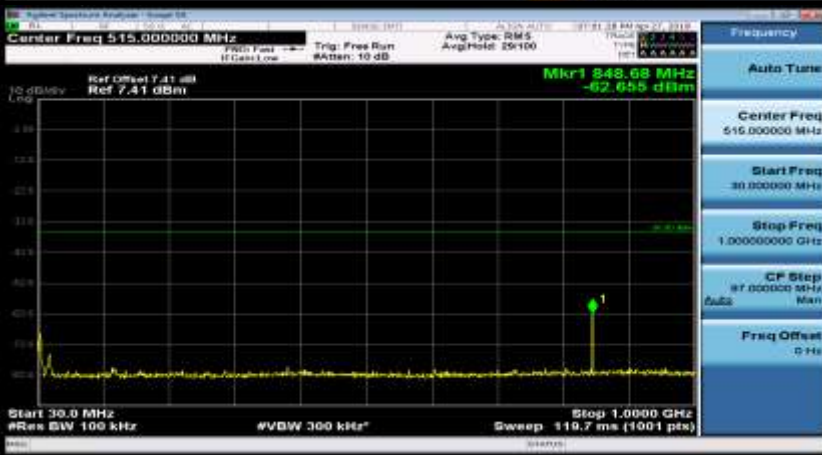
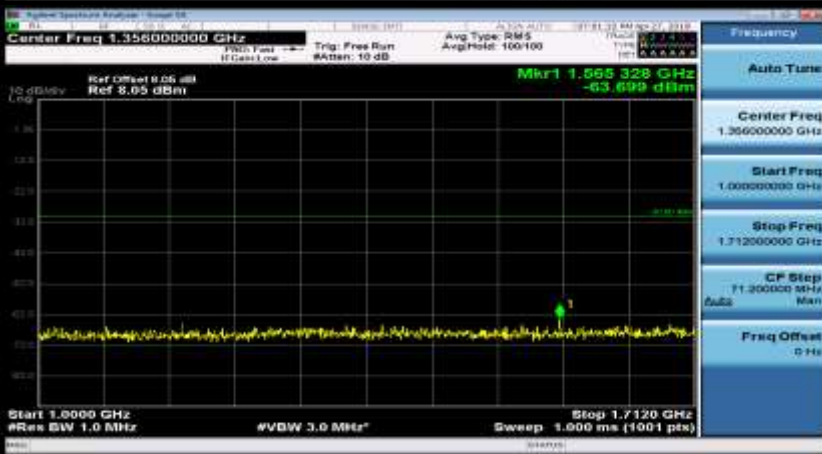
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Co-existence	
Co-existence	
Additional	NA

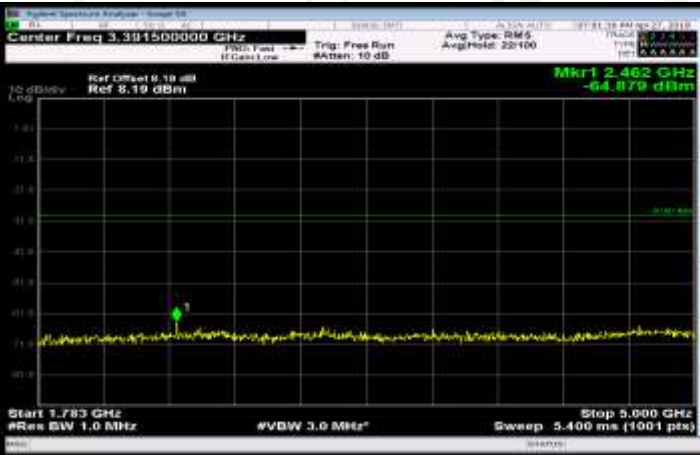

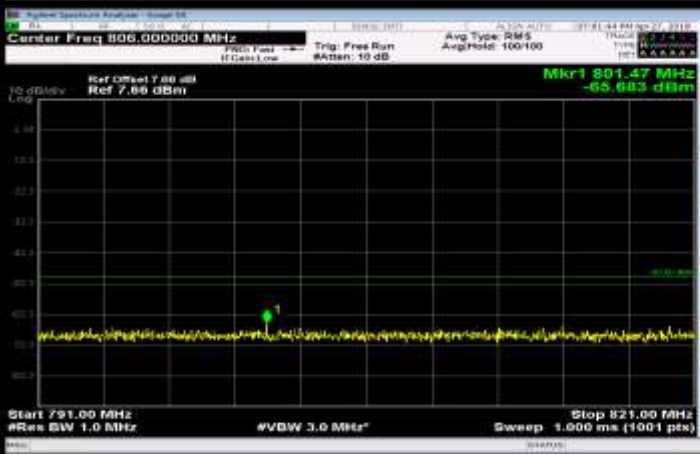
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullIRB#0

General	
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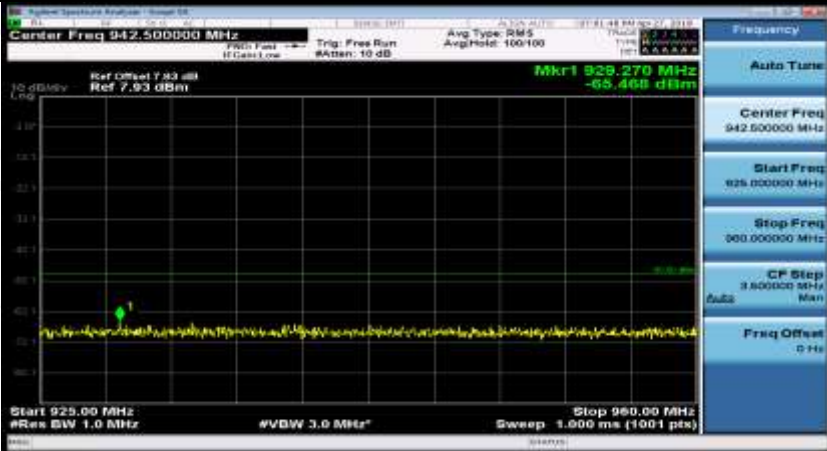
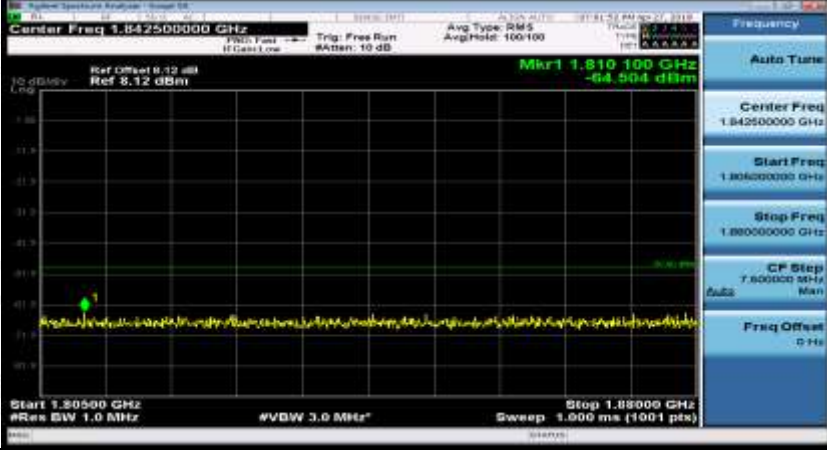
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General	
General	
General	

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.391500000 GHz</p> <p>Start Freq 1.783000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 321.700000 MHz</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 6.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

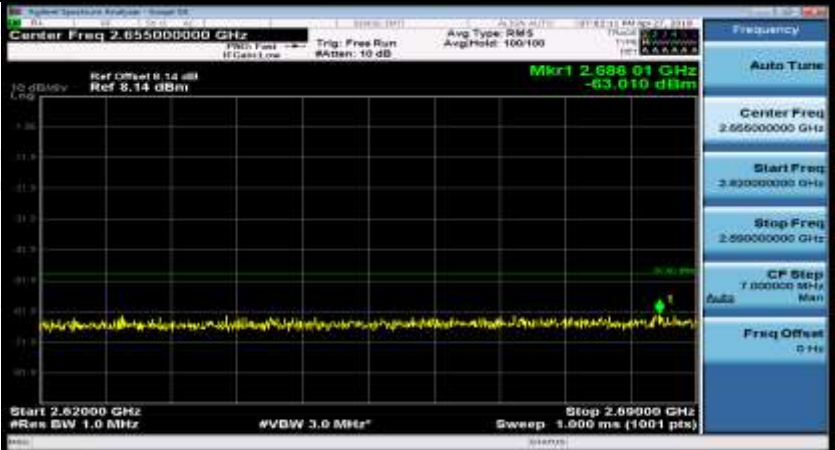
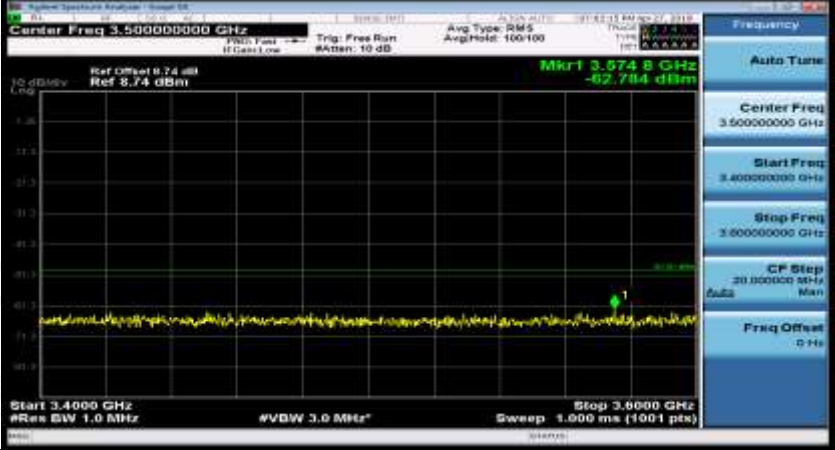
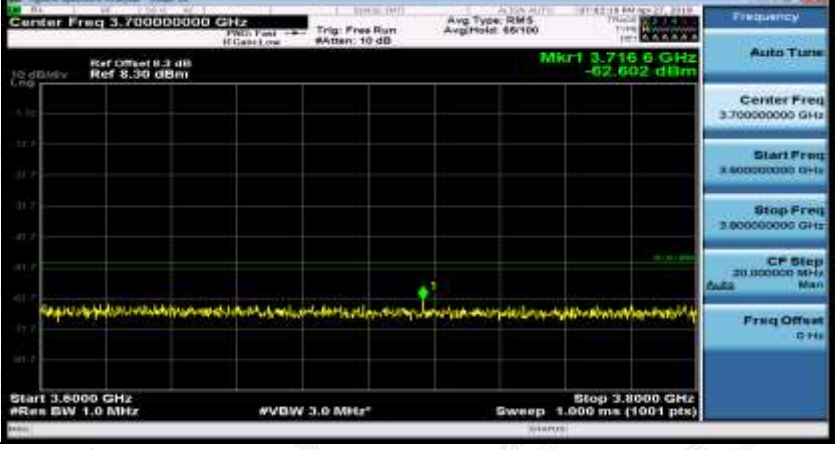
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Co-existence	
Co-existence	
Co-existence	

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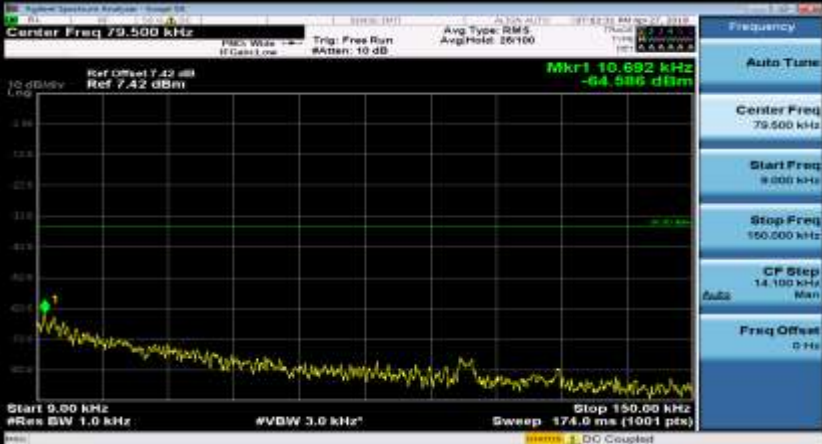

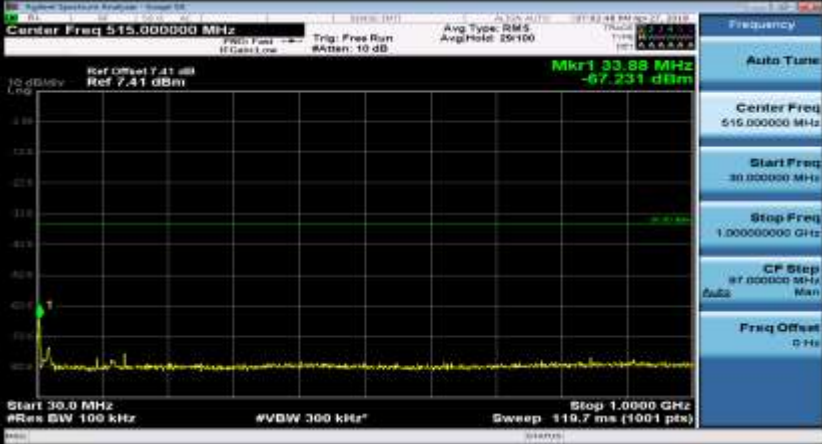
Co-existence	
Co-existence	
Co-existence	

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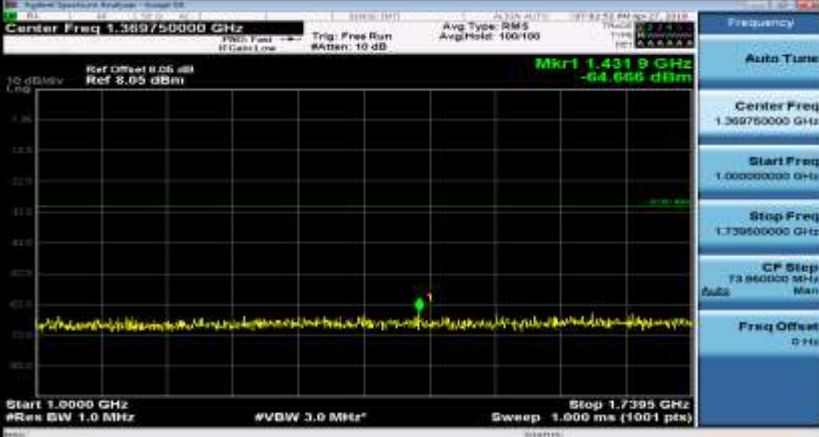
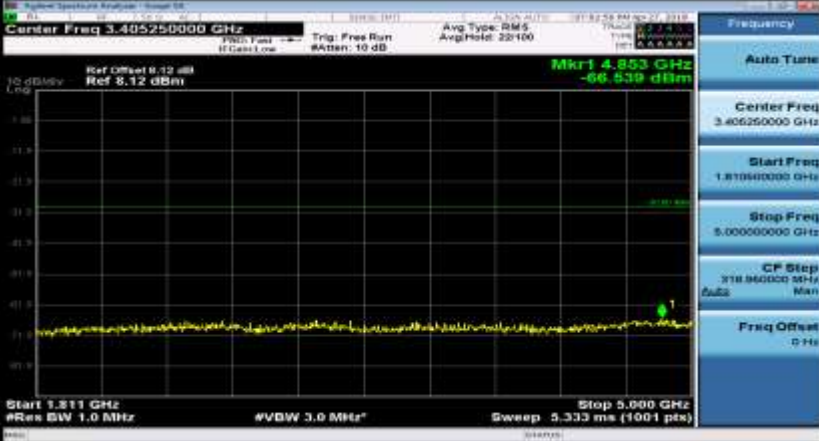

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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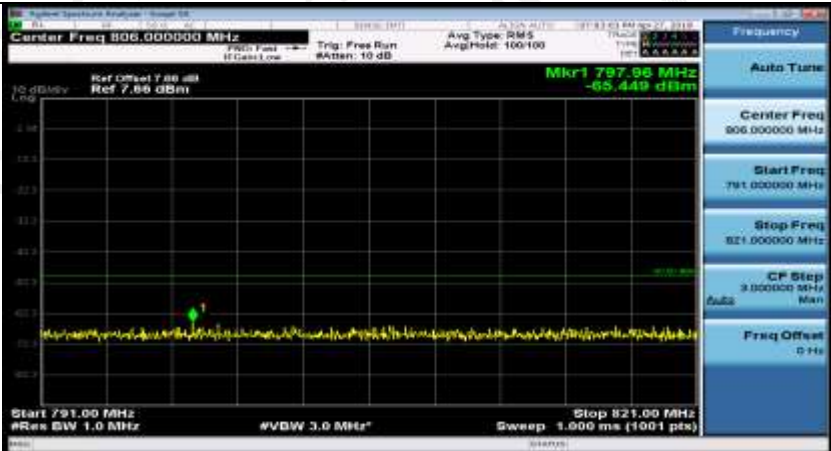
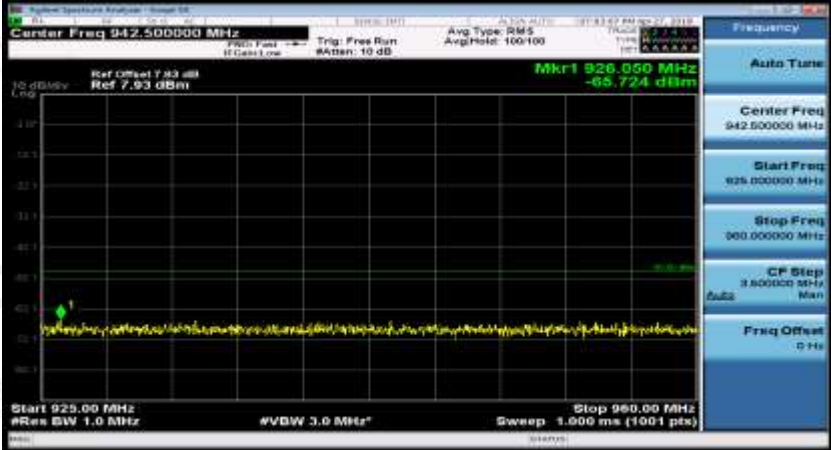
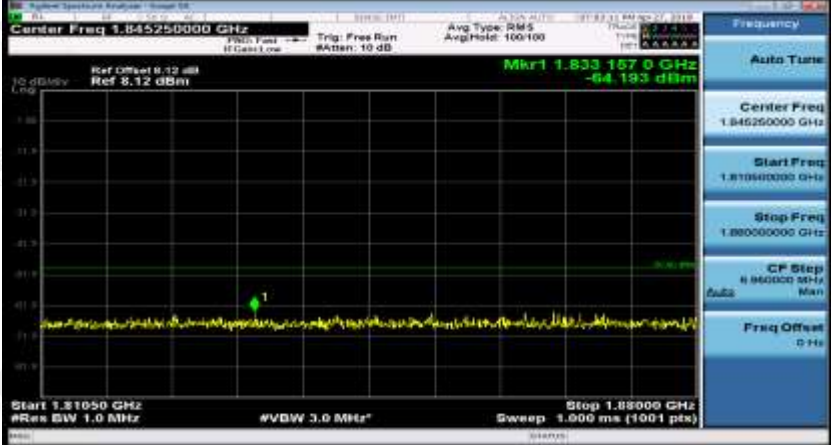
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General		
General		
General		

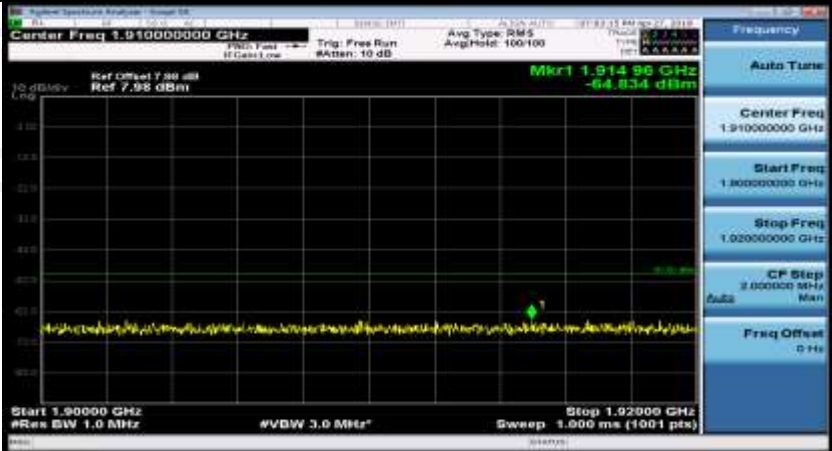
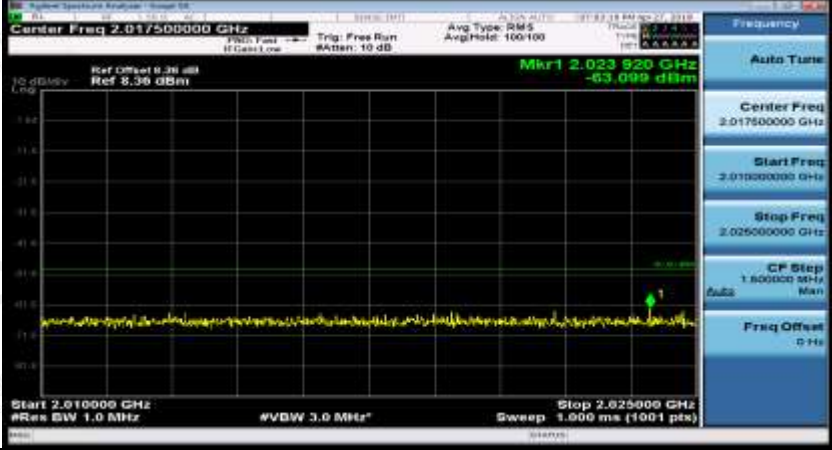
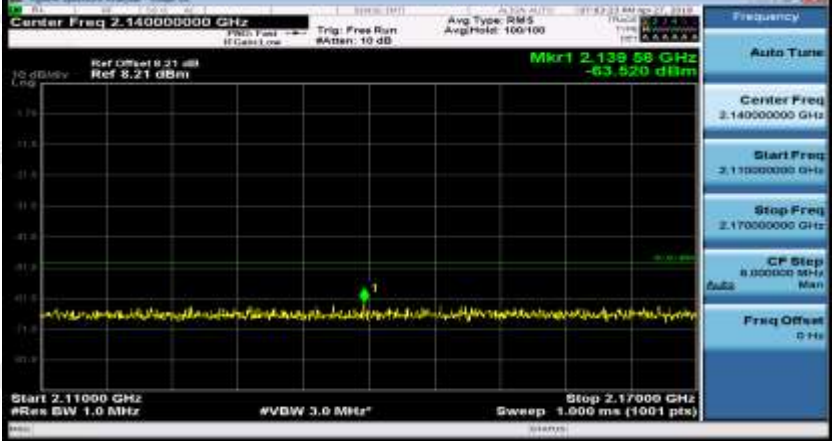
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General			
General			
General			

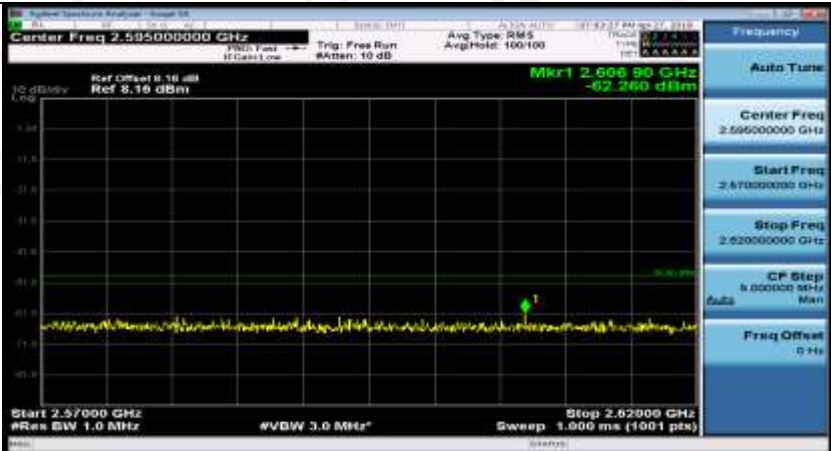
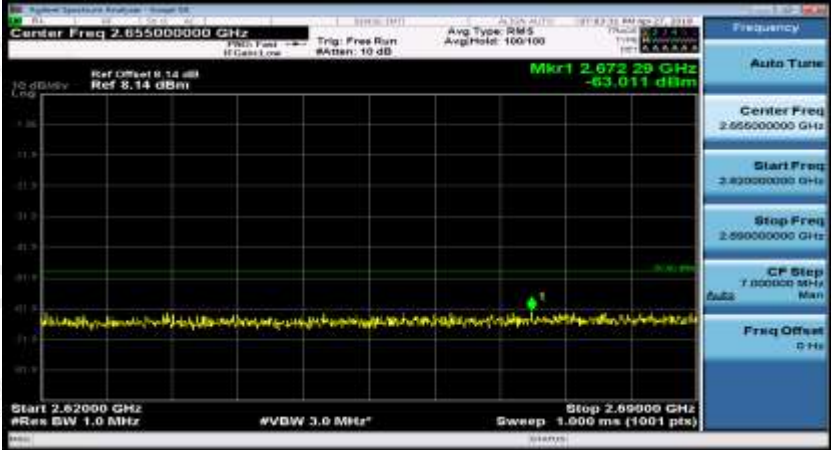
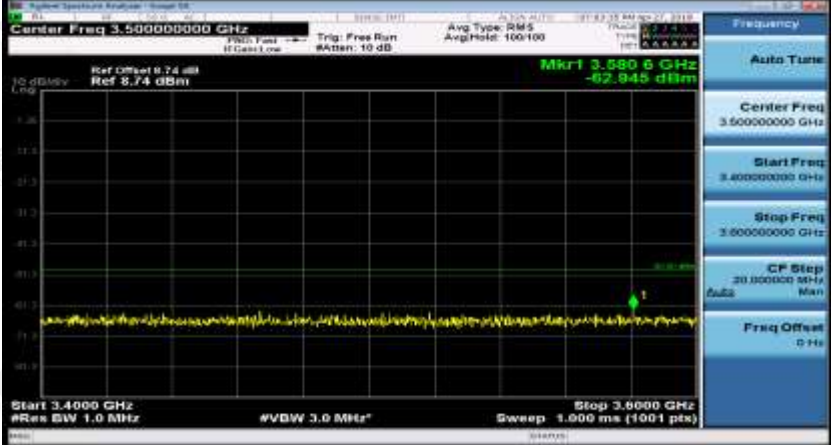
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

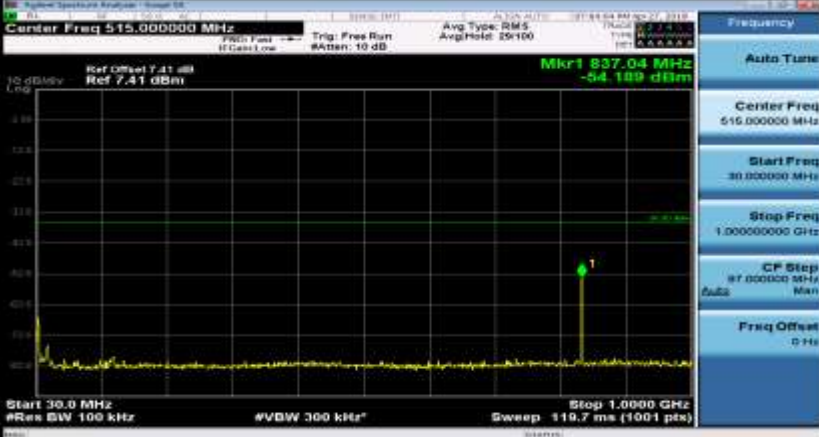
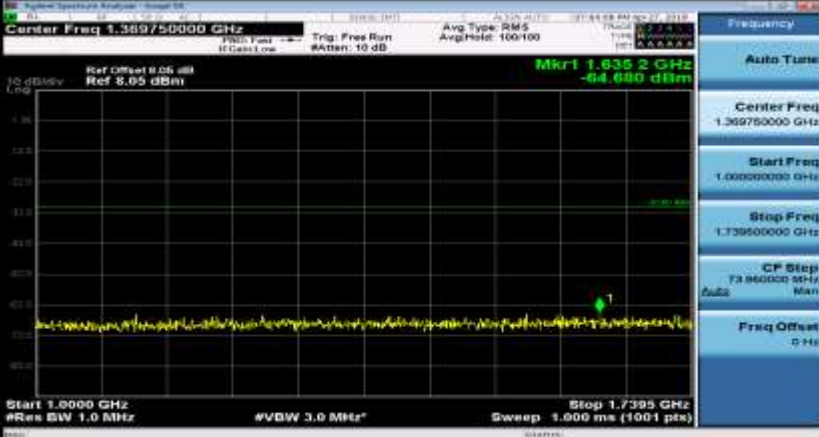

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Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max

General	
General	

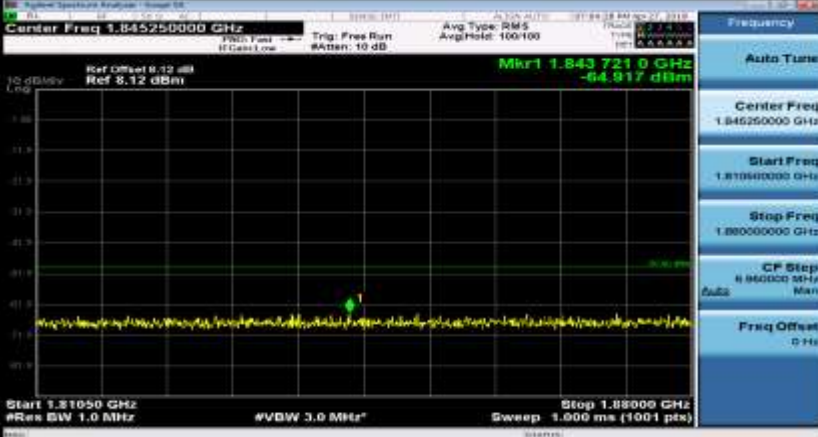
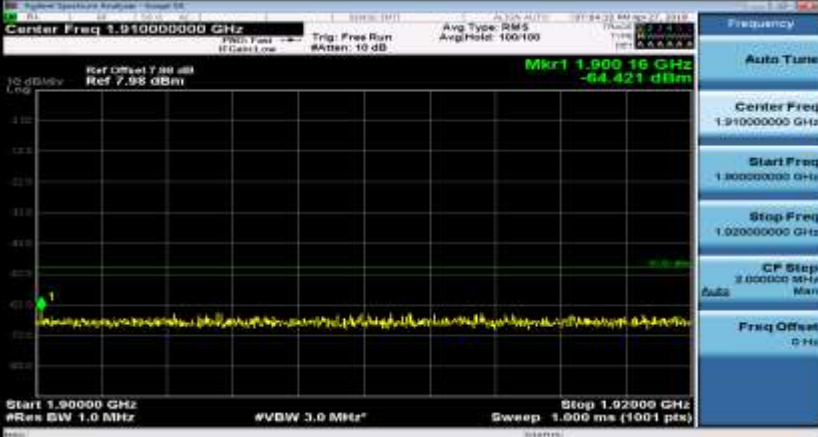

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General			
General			
General			

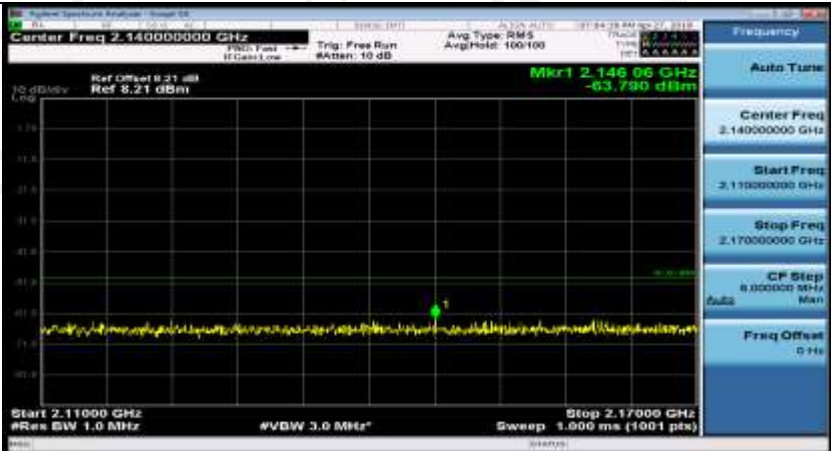
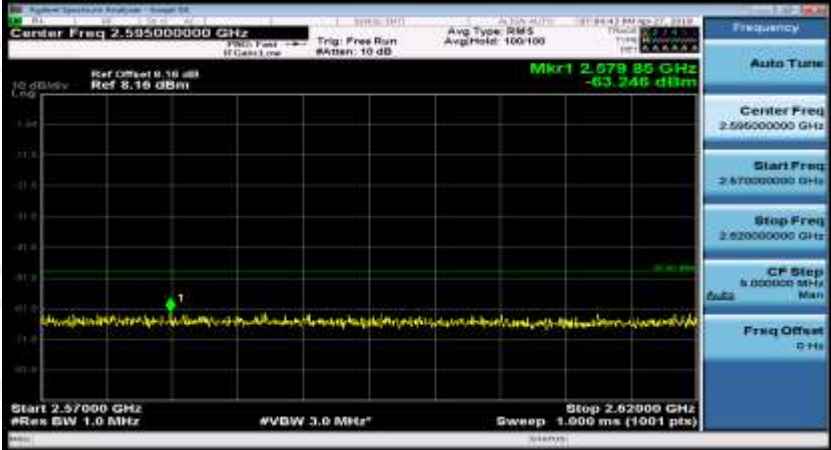
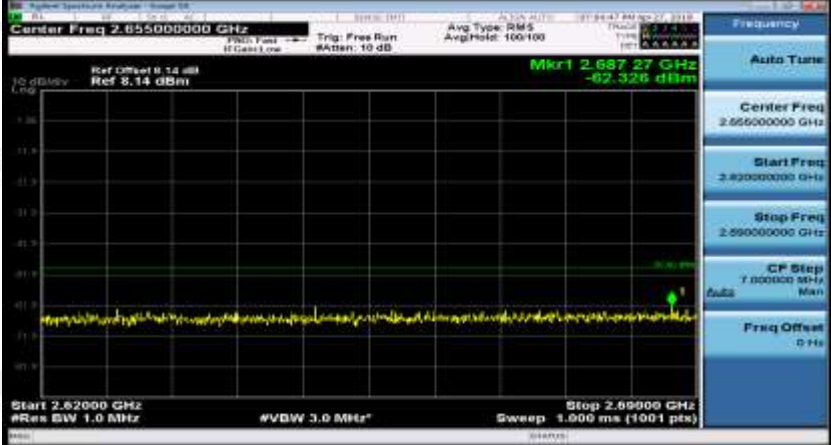
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General			
Co-existence			
Co-existence			


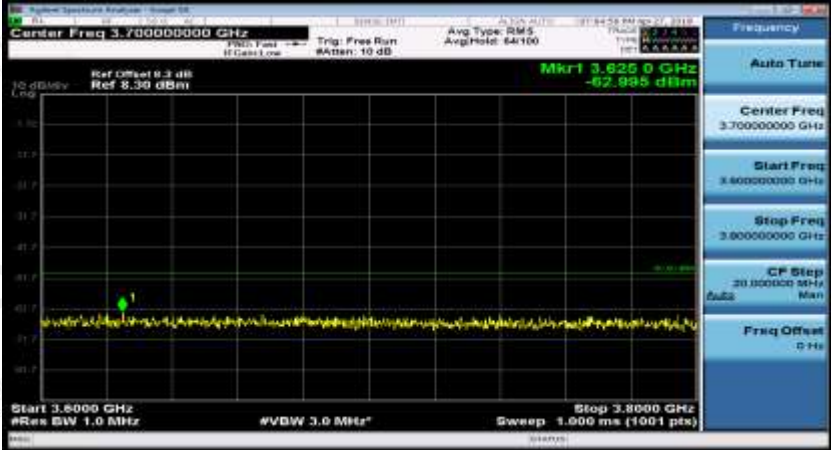
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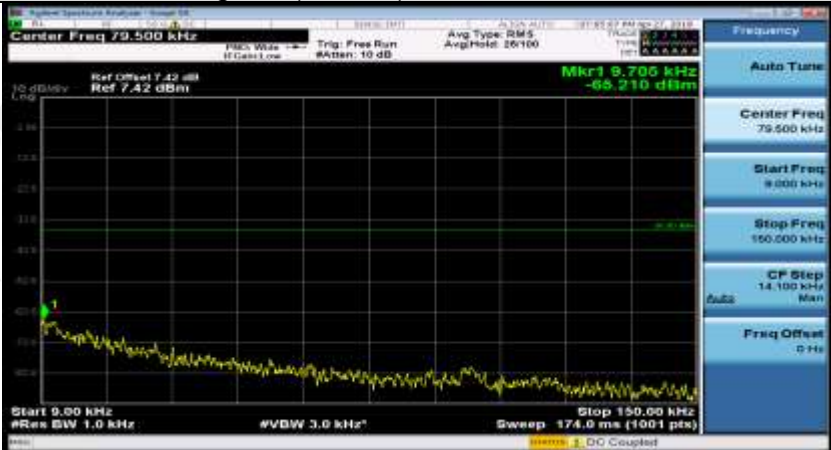
Co-existence			
Co-existence			
Co-existence			

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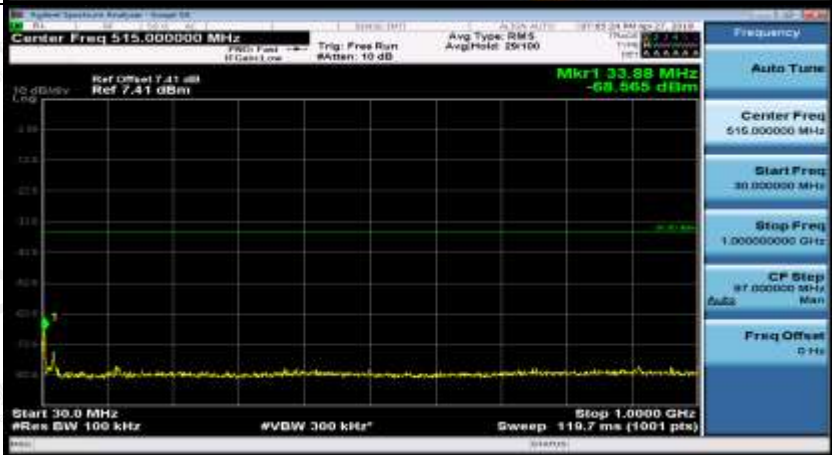

Co-existence	
Co-existence	
Co-existence	

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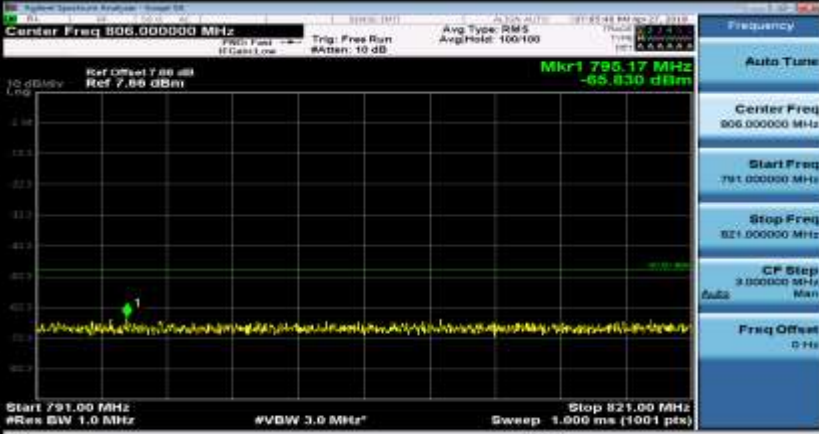
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	

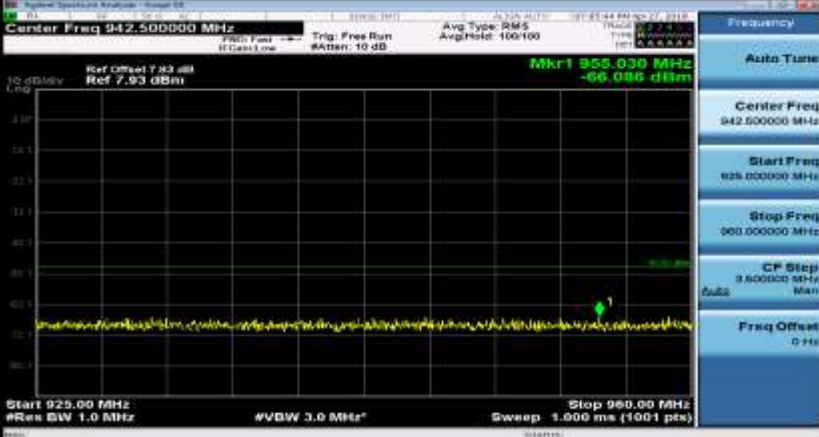
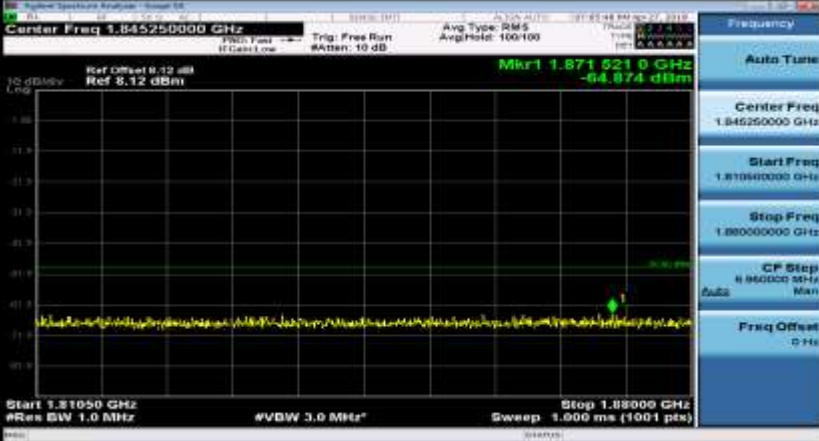
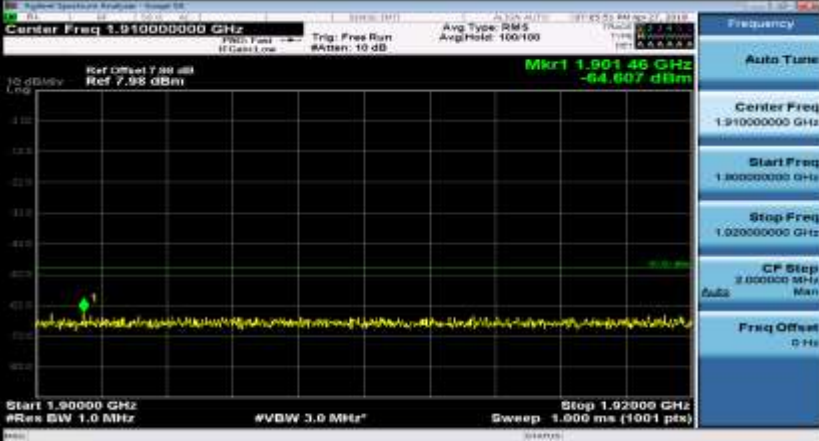
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General			
General			
General			

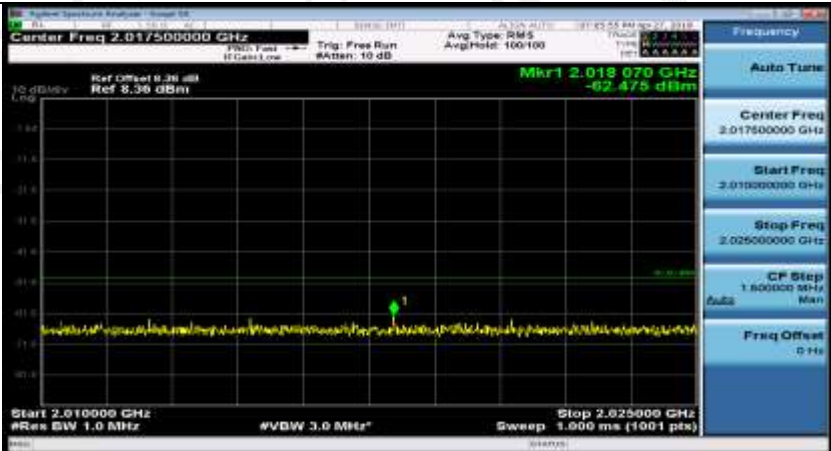
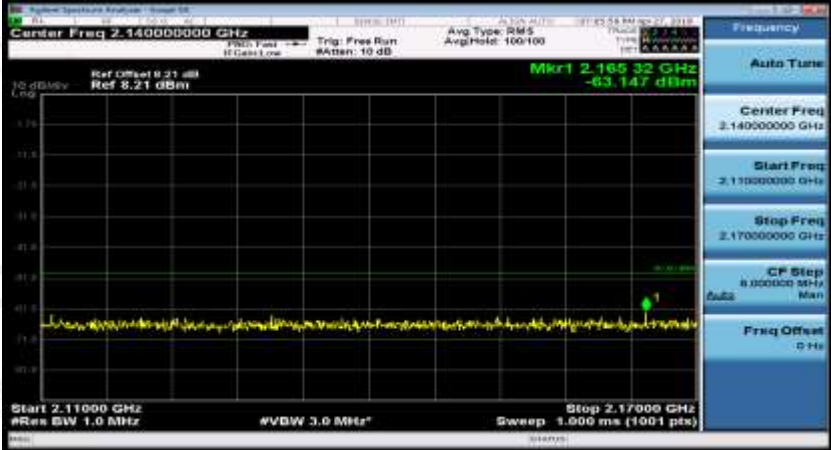
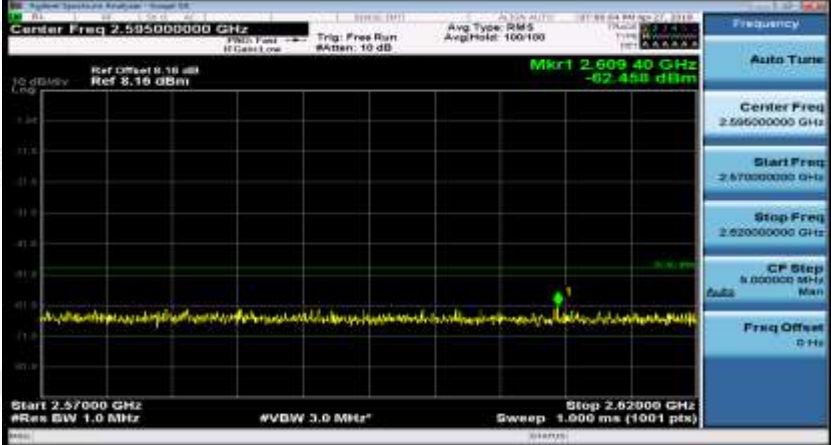
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General			
General			
Co-existence			

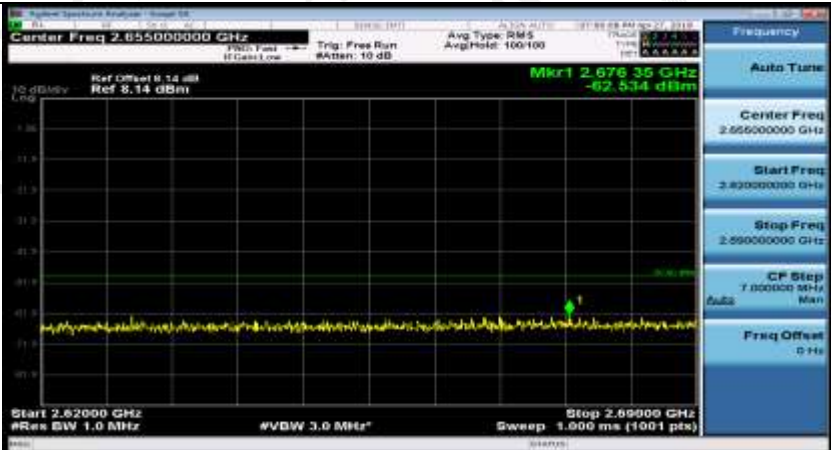
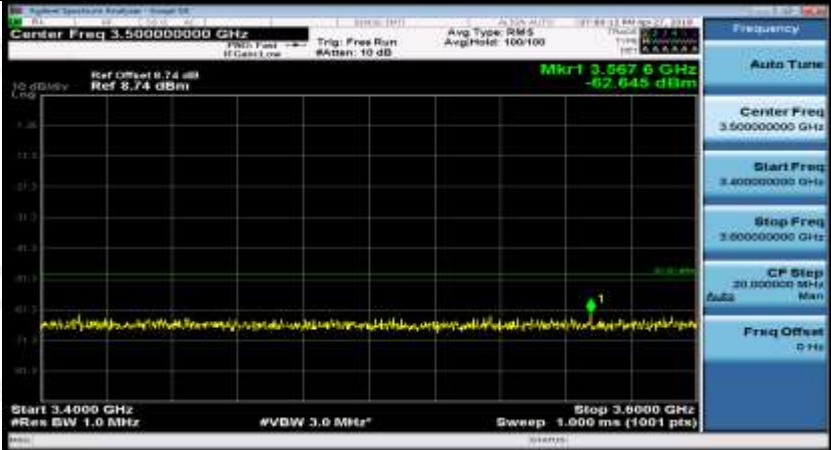
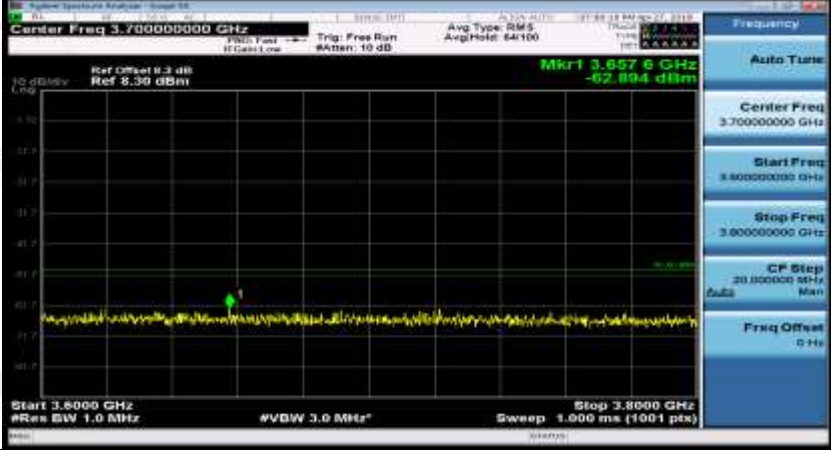
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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

Test Graphs

NTNV

Channel Bandwidth=Highest

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_0RB#0	
LCH	
LCH	

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Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_ORB#0



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Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_ORB#0



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7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	$\geq 95\%$
5MHz	QPSK	Full	QPSK	15,20,25	$\geq 95\%$
20MHz	QPSK	Full	QPSK	50	$\geq 95\%$
Verdict			Pass		

Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %

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20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict		Pass			

Narrow Band

Test Environment	NC				
Test Frequencies	Mid range				
Test Channel Bandwidths	Lowest, 1.4MHz, Highest 20MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration				Downlink Configuration
Ch BW	Mod' n	Ch BW	Mod' n	Ch BW	Mod' n
1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz	QPSK
5MHz	QPSK	10MHz	QPSK	5MHz	QPSK
20MHz	QPSK	20MHz	QPSK	20MHz	QPSK
Verdict	Pass				

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9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band		Band 3				
Test Environment		NC				
Test Frequencies		Mid range				
Test Channel Bandwidths		Lowest, 1.4MHz, Highest 20MHz				
Test Parameters for Channel Bandwidths						
	Downlink Configuration				Downlink Configuration	
Ch BW	Mod' n	Ch BW	Mod' n	Ch BW	Mod' n	Ch BW
1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz
5MHz	QPSK	5MHz	QPSK	5MHz	QPSK	10MHz
20MHz	QPSK	20MHz	QPSK	20MHz	QPSK	20MHz
Verdict	Pass					

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11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

TNTV

	Test Band			Band 3			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,1.4MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TNVN	1.4MHz	QPSK	Full	QPSK	6	Pass	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	50	Pass	≥ 95 %
	Verdict	Pass					

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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-78.12	-78.26	-78.67
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-73.33	-73.56	-73.93
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-72.36	-72.67	-72.79

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Appendix C for Band 7

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTHV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTHV	QPSK	5 MHz	Low range	1	0	21.16	Pass
					max	21.21	Pass
				Partial	0	21.14	Pass
					max	21.29	Pass
			Mid range	1	0	21.72	Pass
					max	21.81	Pass
				Partial	0	21.75	Pass
					max	21.84	Pass
			High range	1	0	20.70	Pass
					max	20.52	Pass
				Partial	0	20.63	Pass
					max	20.52	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTHV	QPSK	20 MHz	Low range	1	0	20.97	Pass
					max	21.32	Pass
				Partial	0	21.01	Pass
					max	21.32	Pass
			Mid range	1	0	21.20	Pass
					max	22.58	Pass
				Partial	0	21.07	Pass
					max	22.47	Pass
			High range	1	0	22.09	Pass
					max	20.61	Pass
				Partial	0	22.13	Pass
					max	20.66	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	5 MHz	Low range	Full	0	-47.83	Pass
			Mid range	Full	0	-55.91	Pass
			High range	Full	0	-55.59	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	20MHz	Low range	Full	0	-53.92	Pass
			Mid range	Full	0	-53.49	Pass
			High range	Full	0	-50.92	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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	16QAM	Low range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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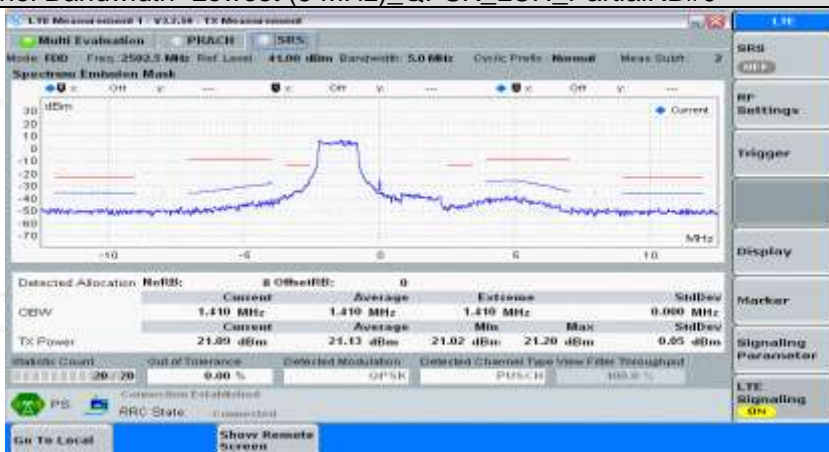
Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

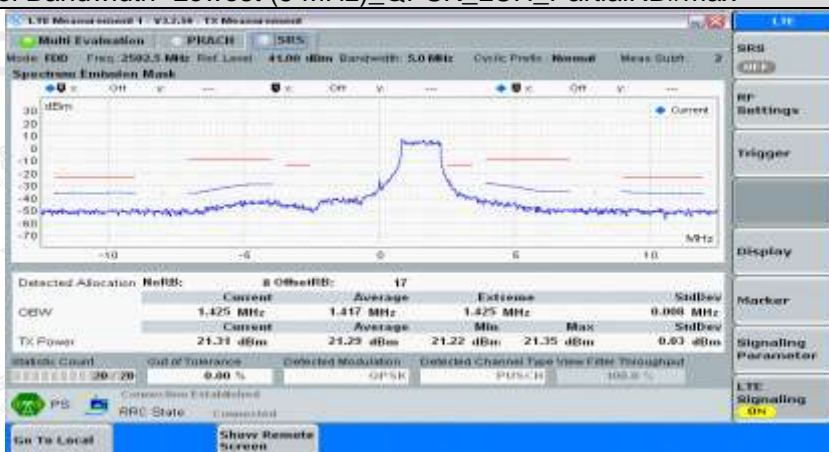
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0

QPSK



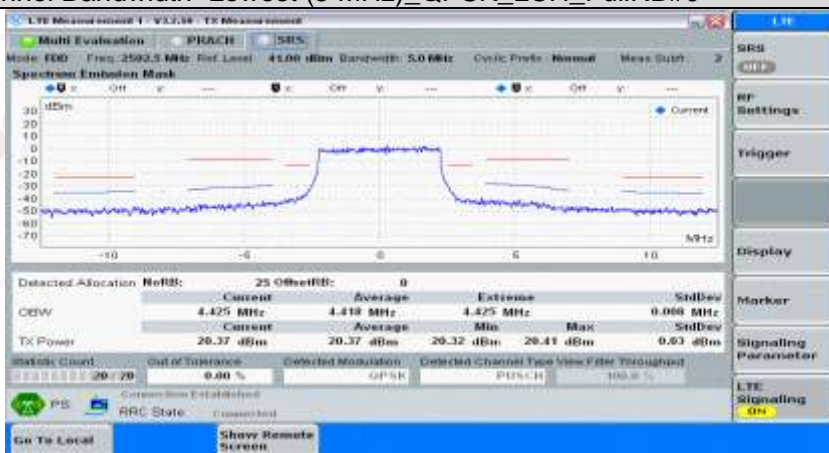
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

QPSK



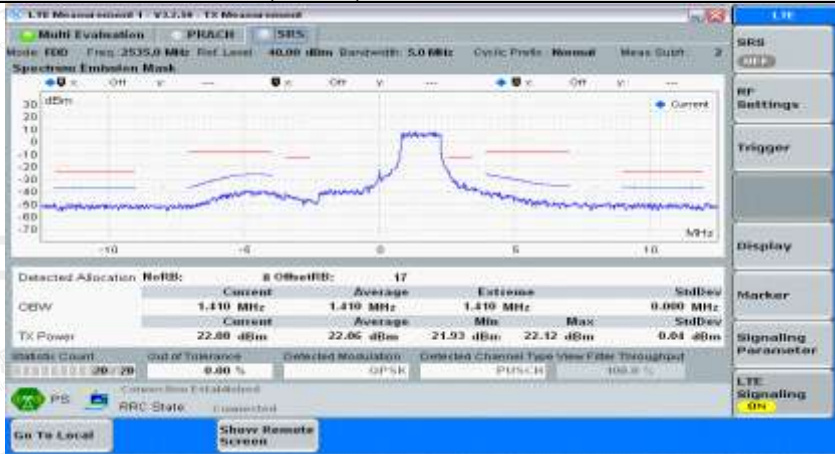
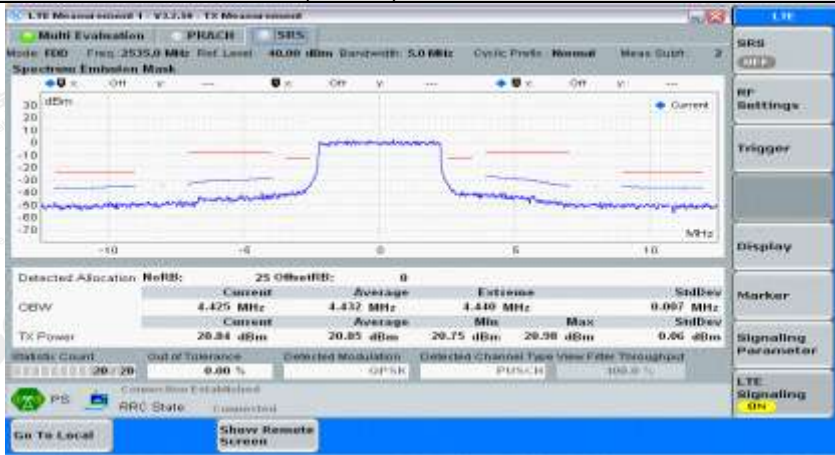
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0

QPSK

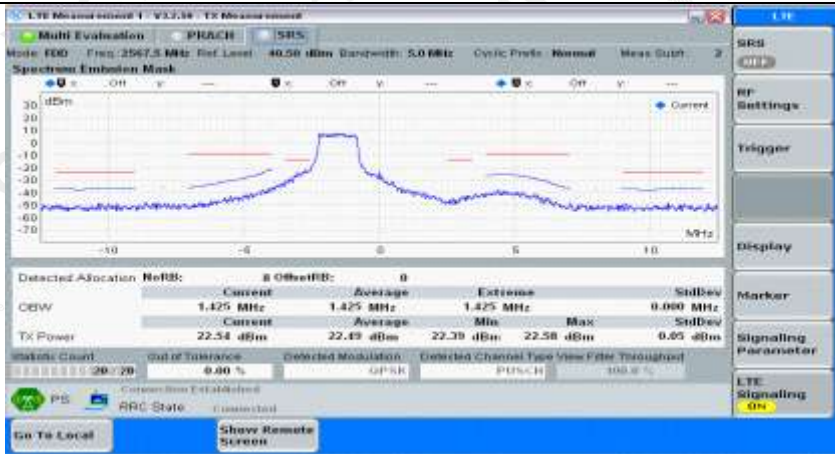
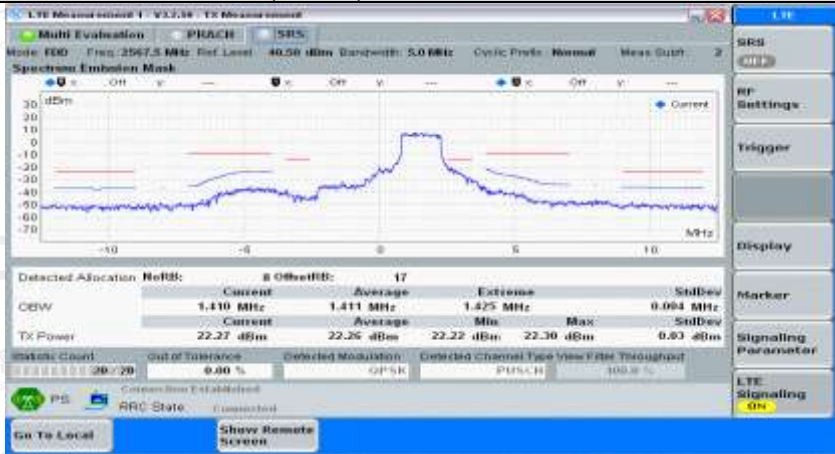
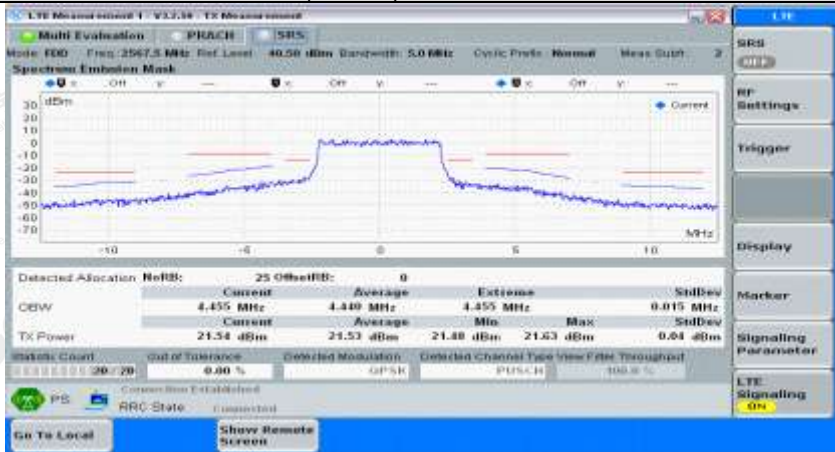


Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0

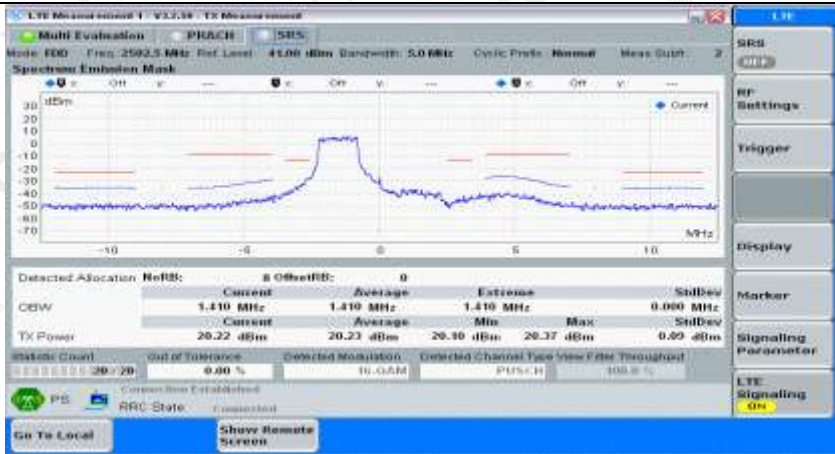
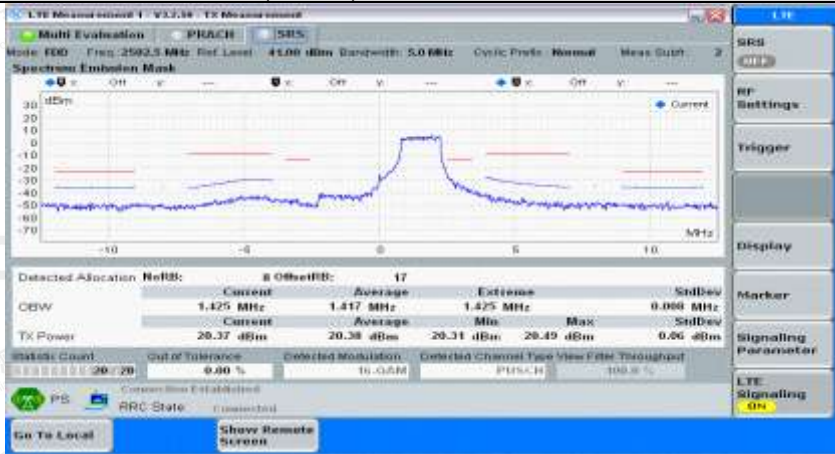
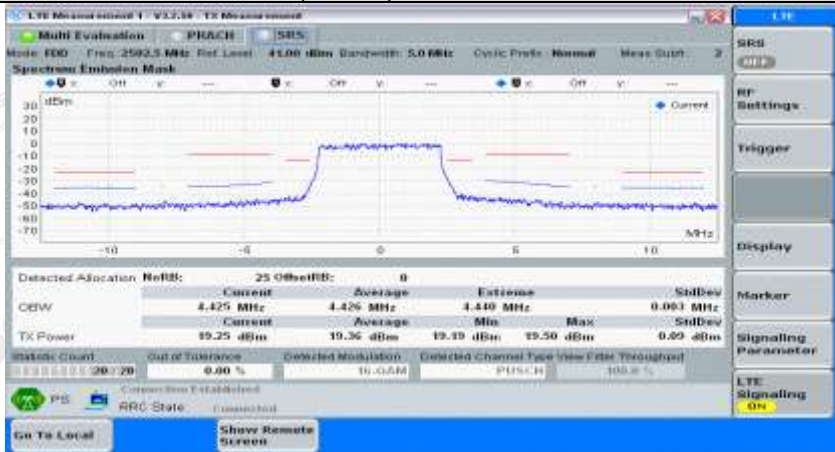
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

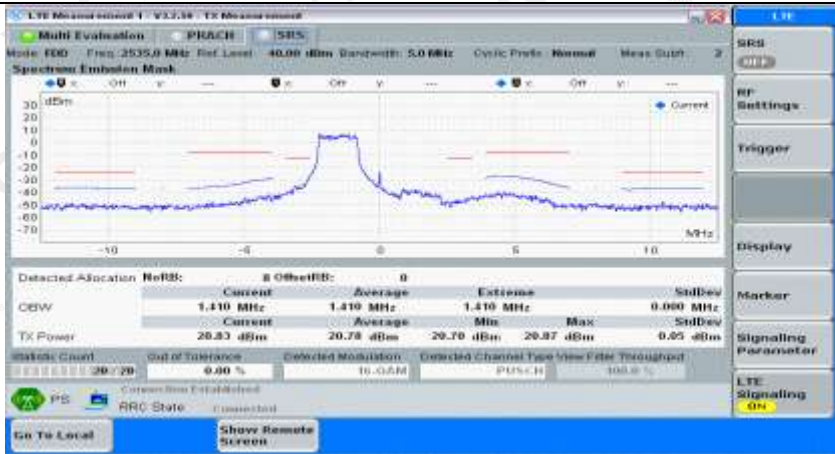
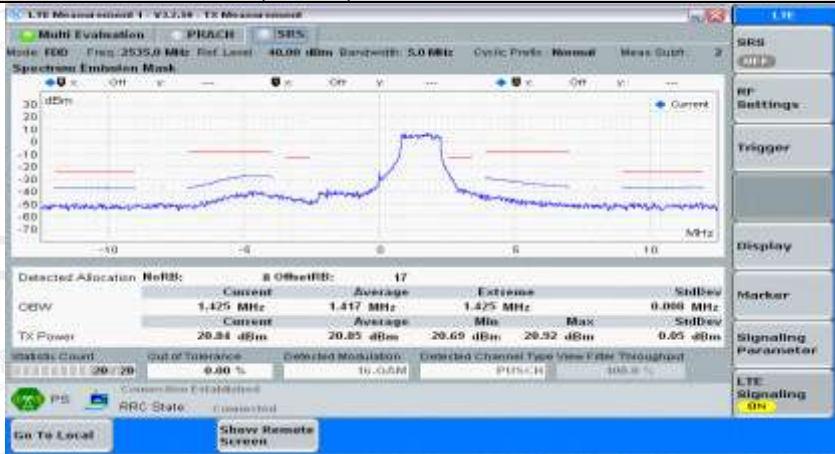
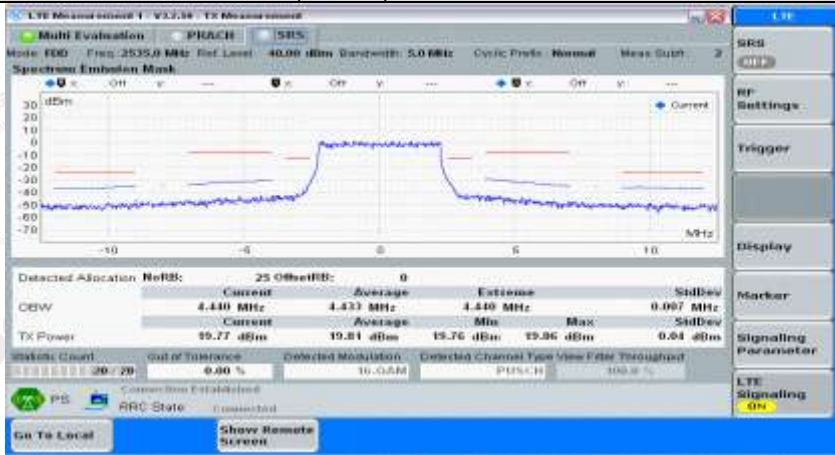
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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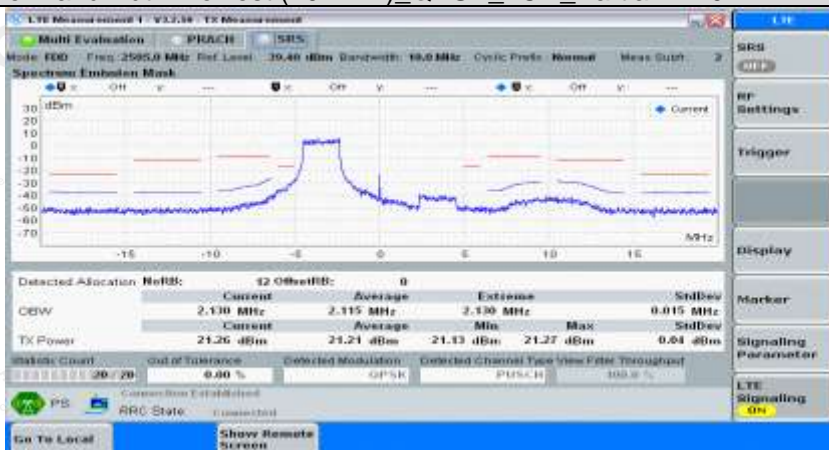
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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Channel Bandwidth= (10 MHz)

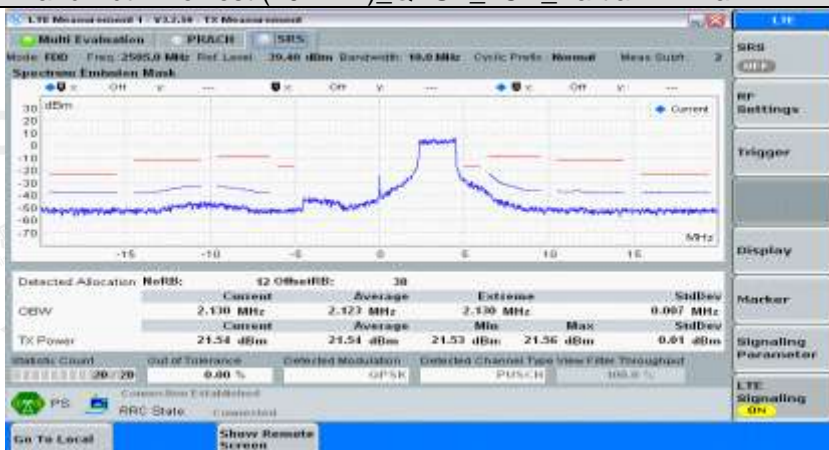
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



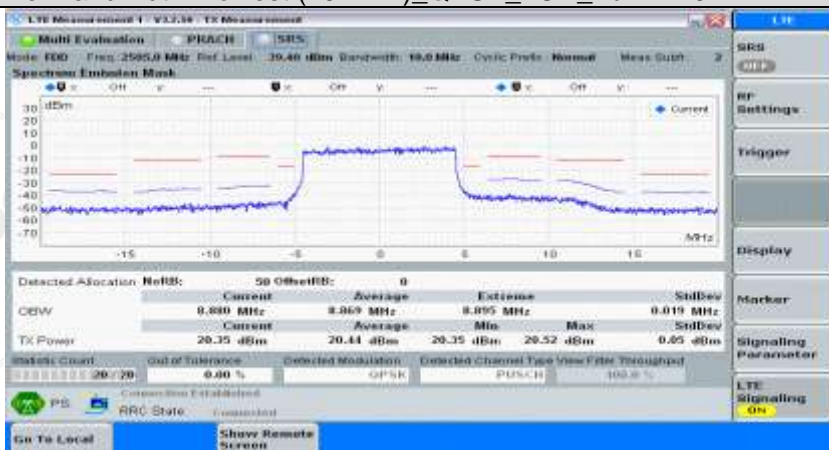
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



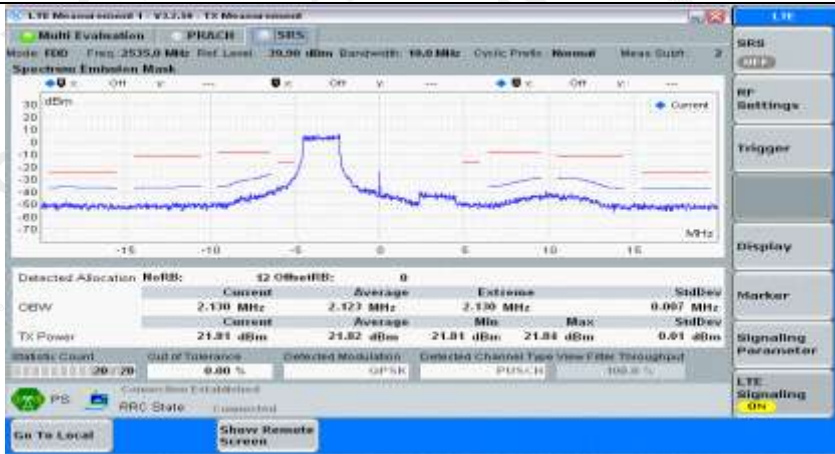
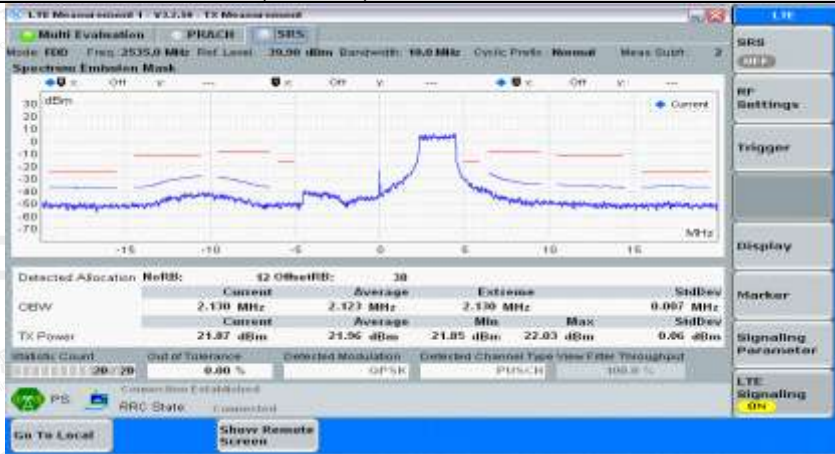
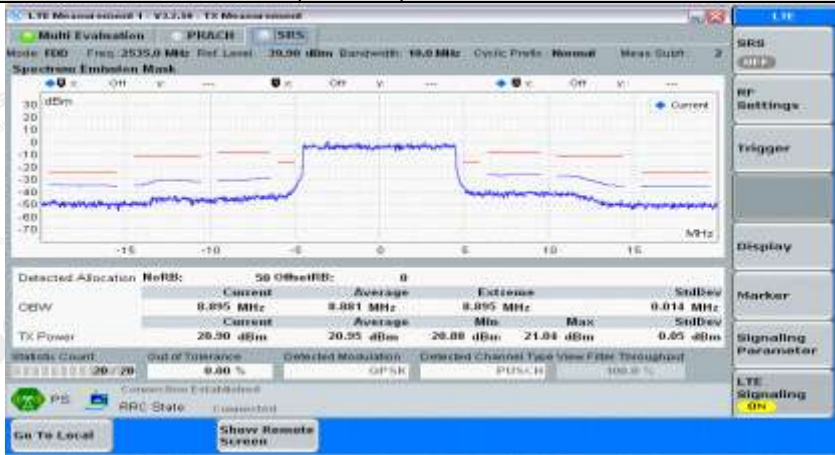
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0

QPSK

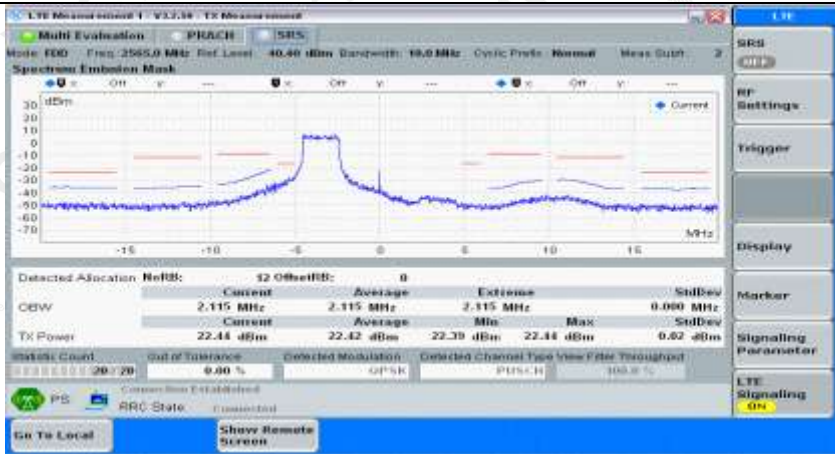

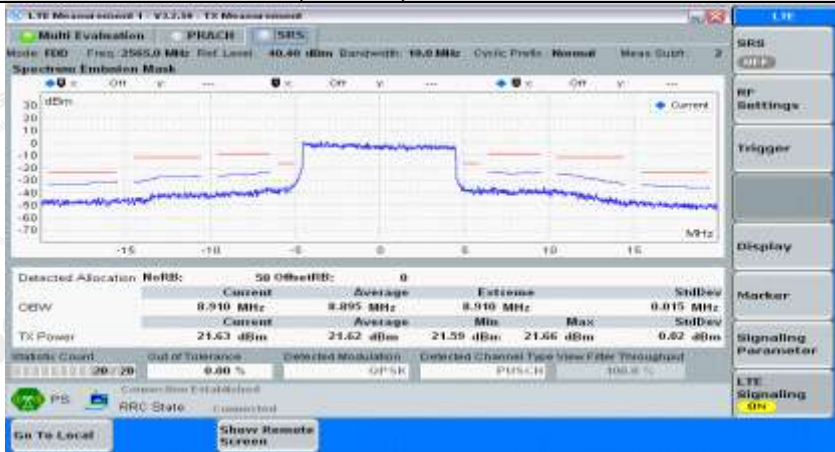


Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

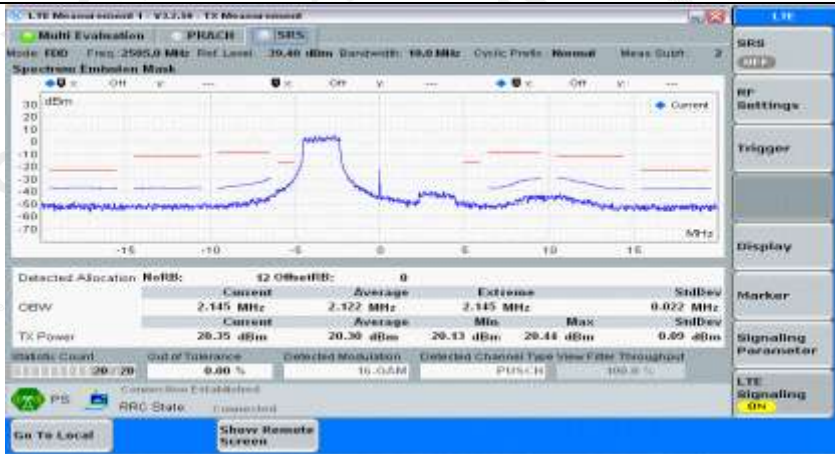
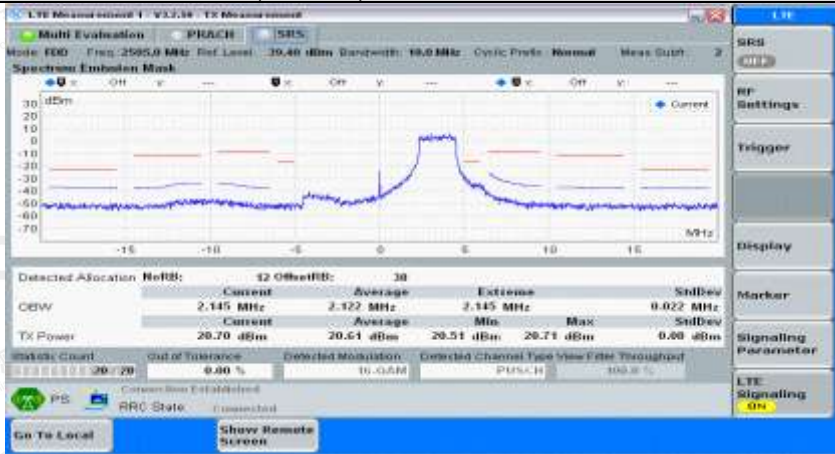
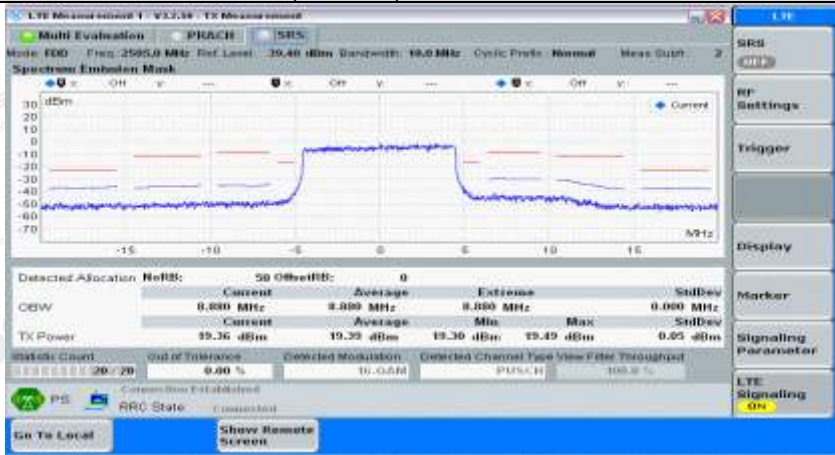
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

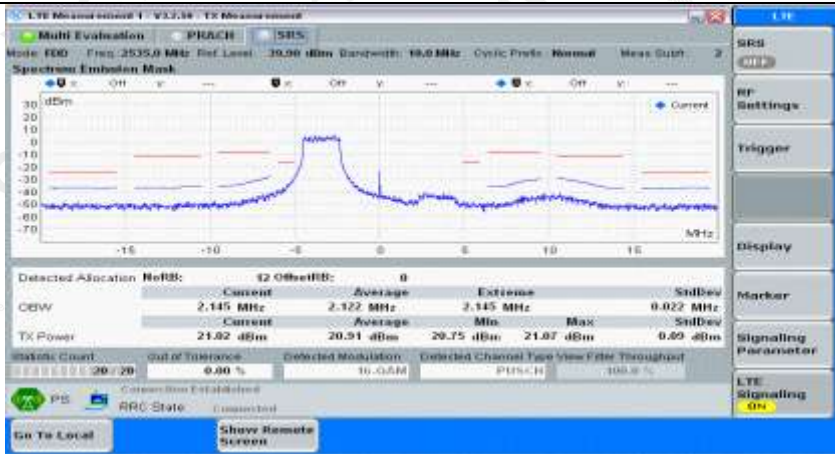
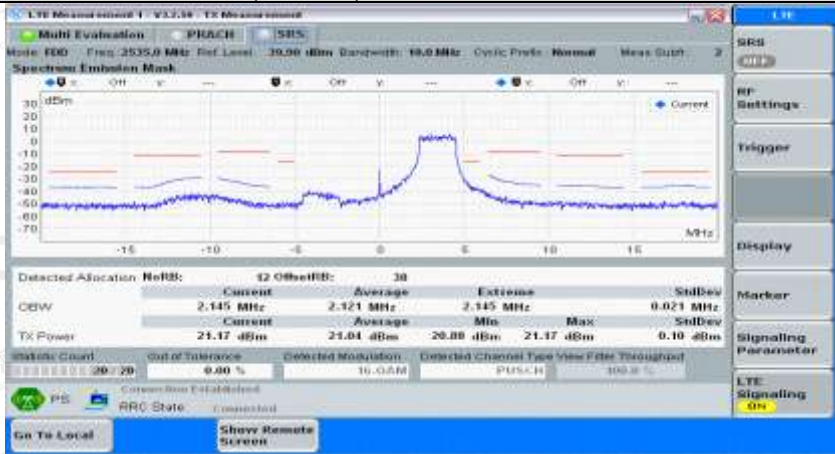
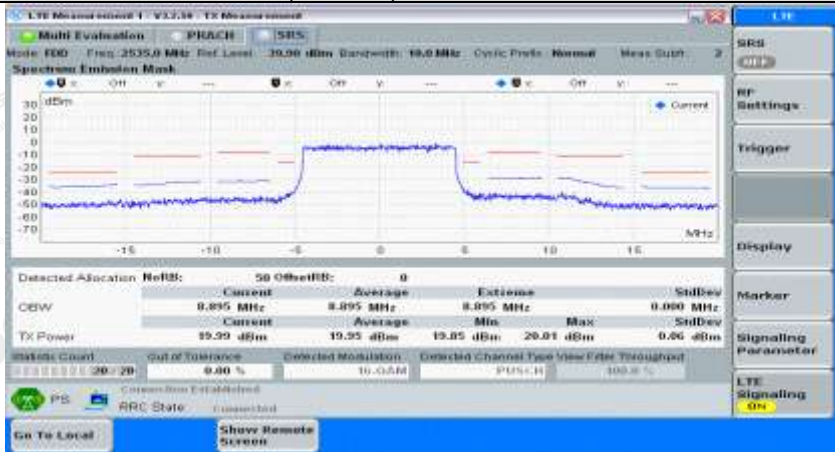
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

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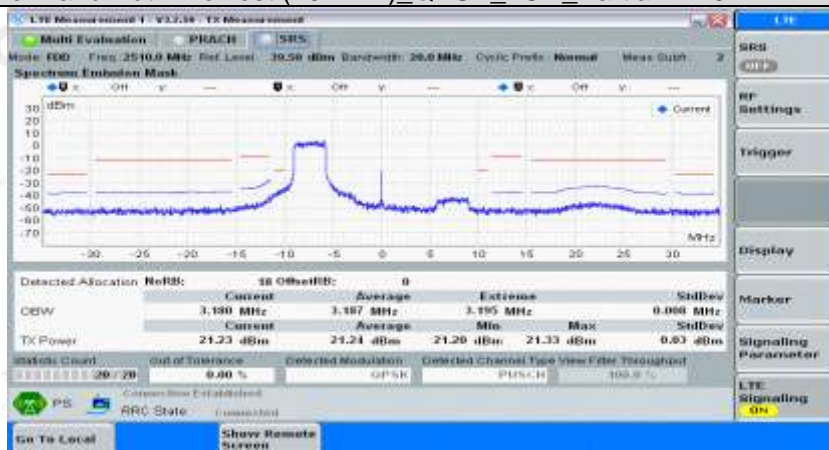
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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Channel Bandwidth=Highest (20 MHz)

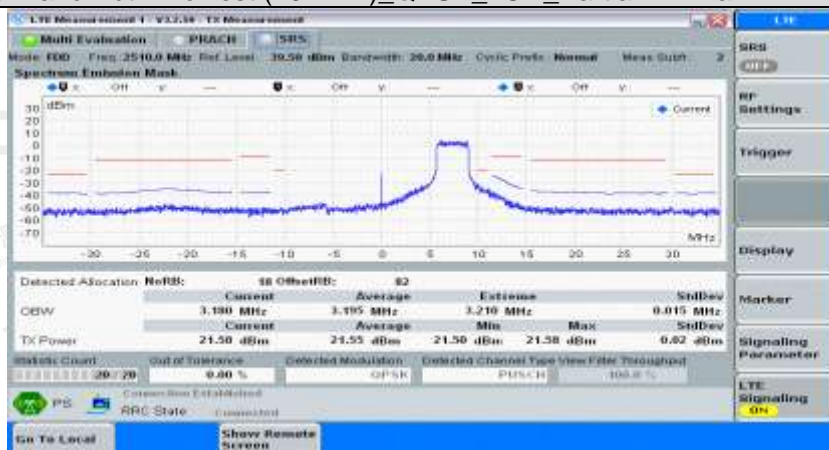
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0

QPSK



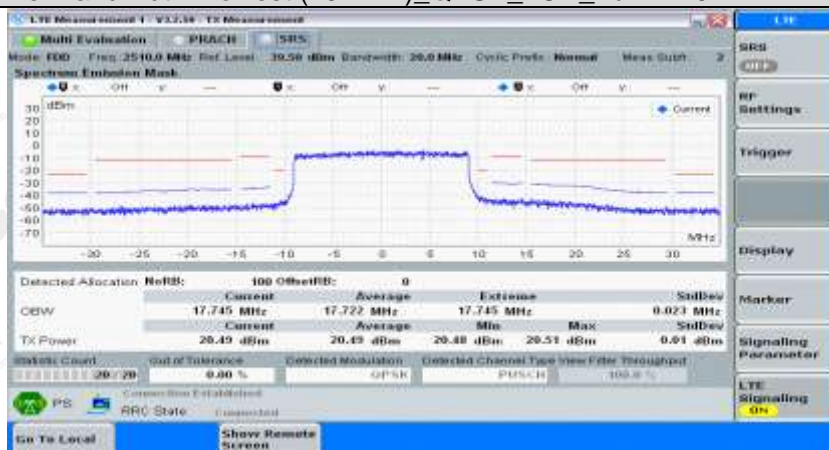
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

QPSK



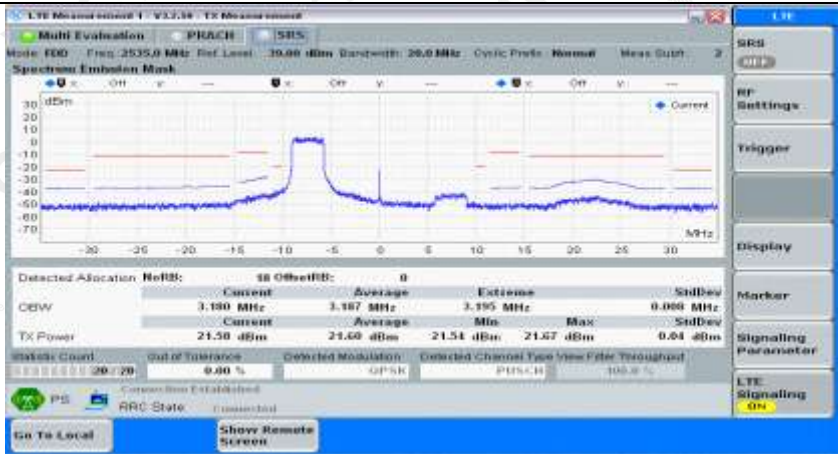
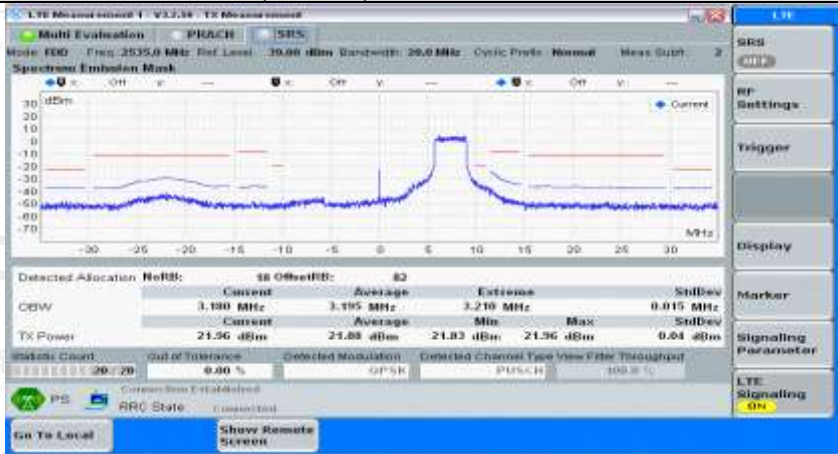
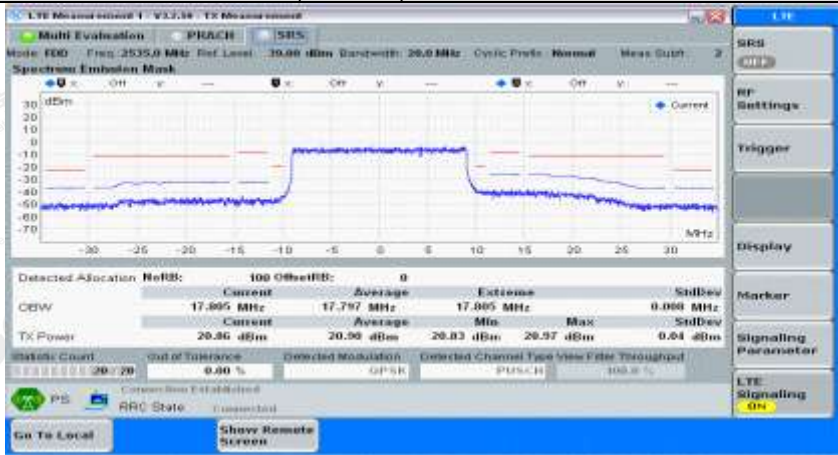
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0

QPSK

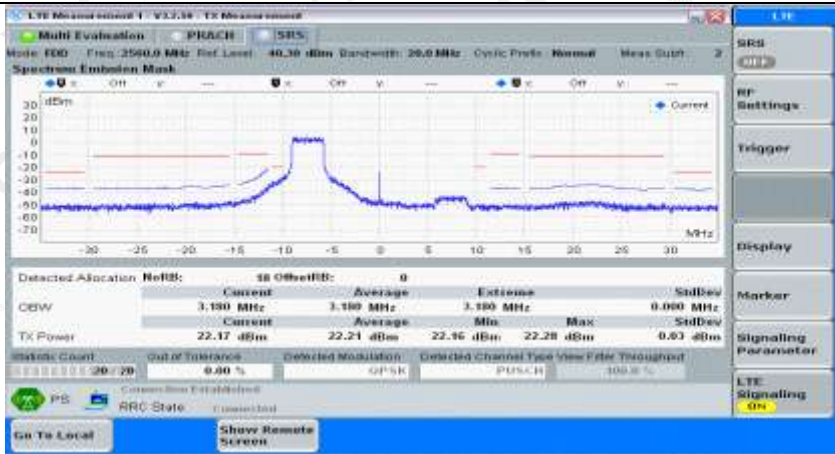
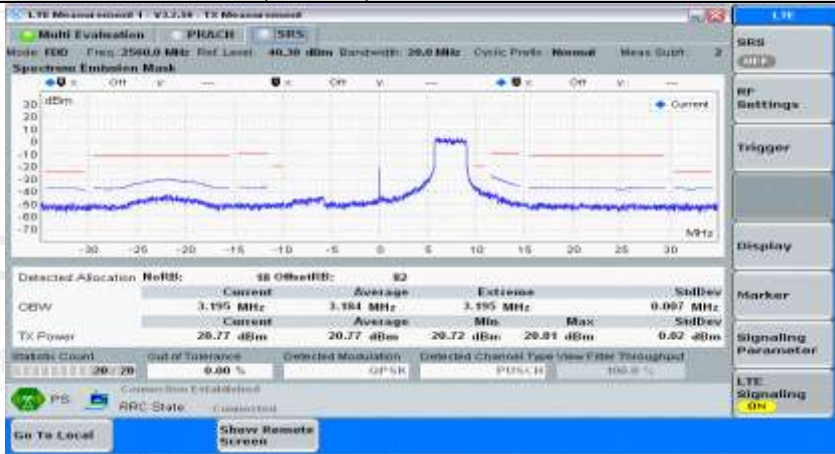
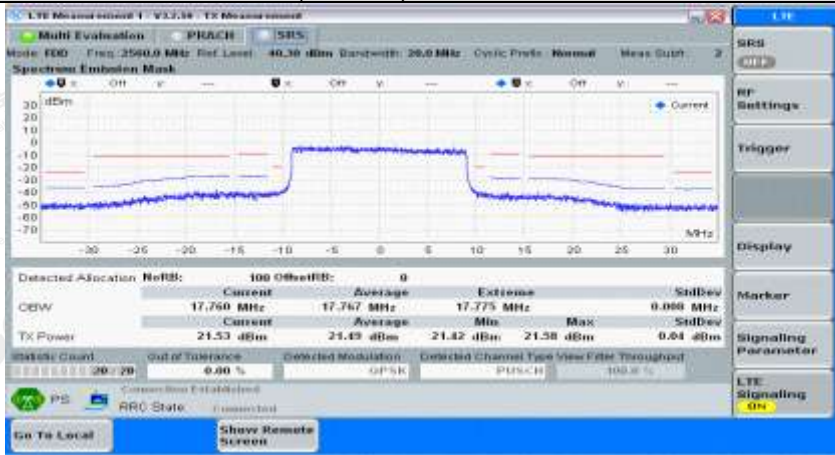


Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

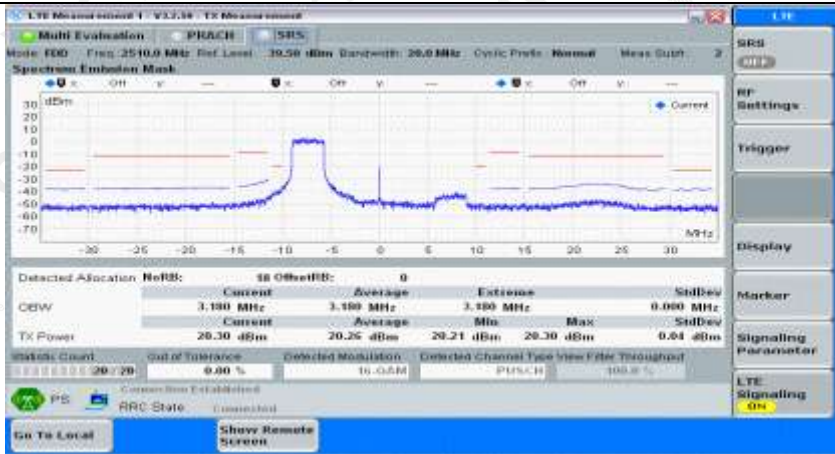
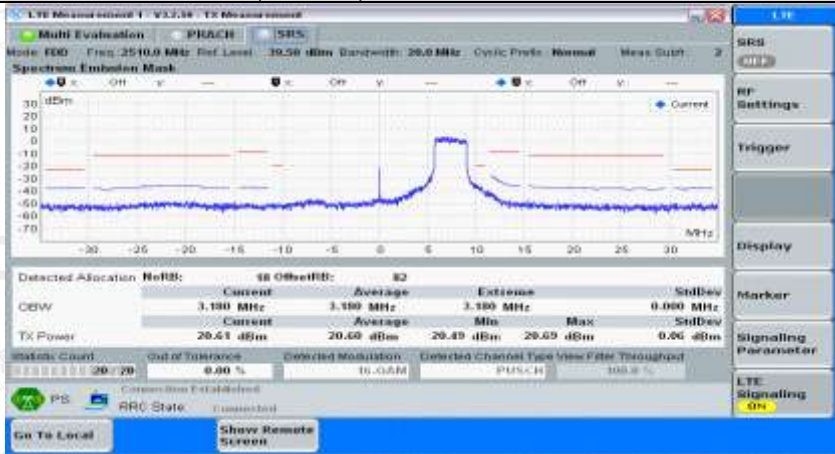
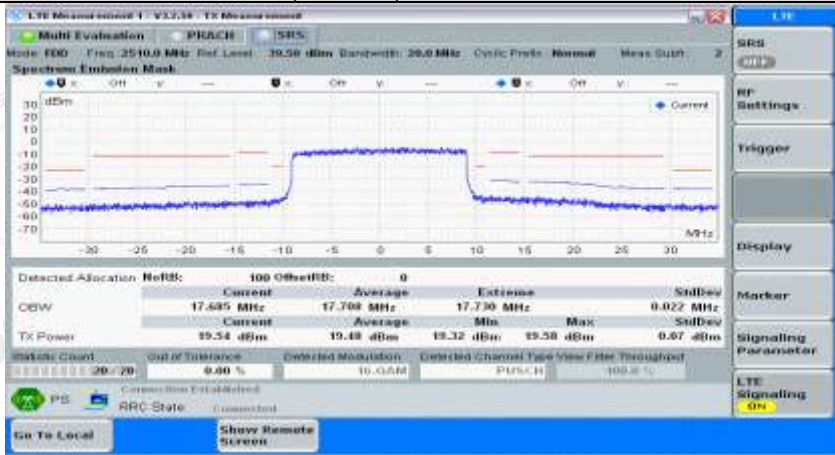
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

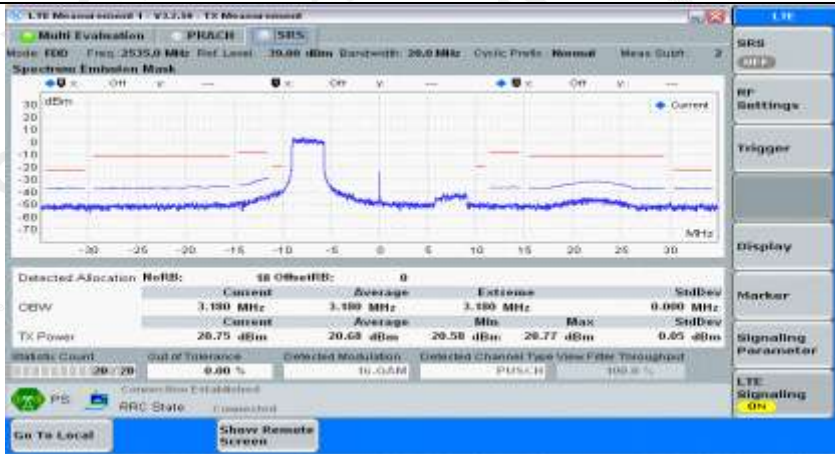
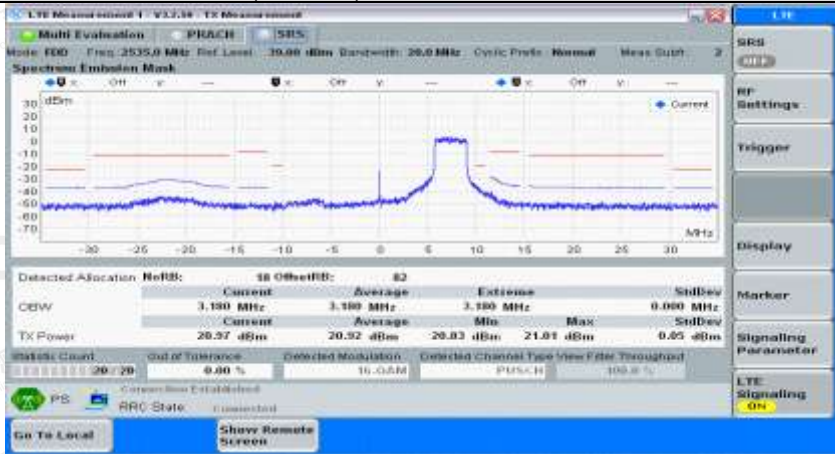
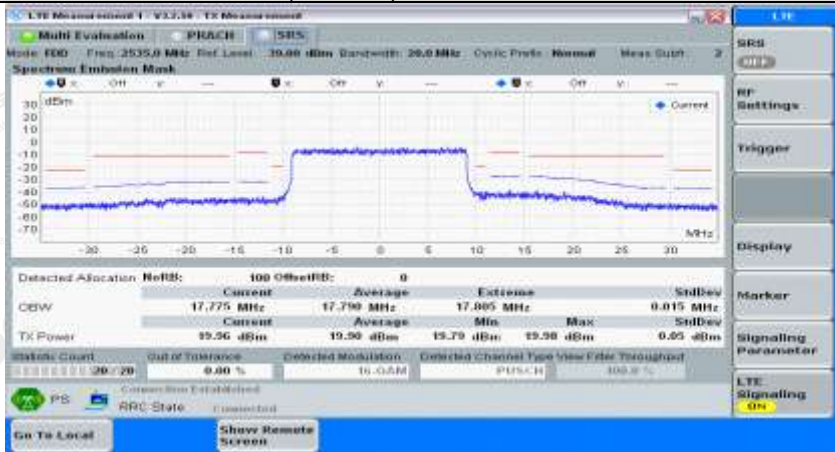
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

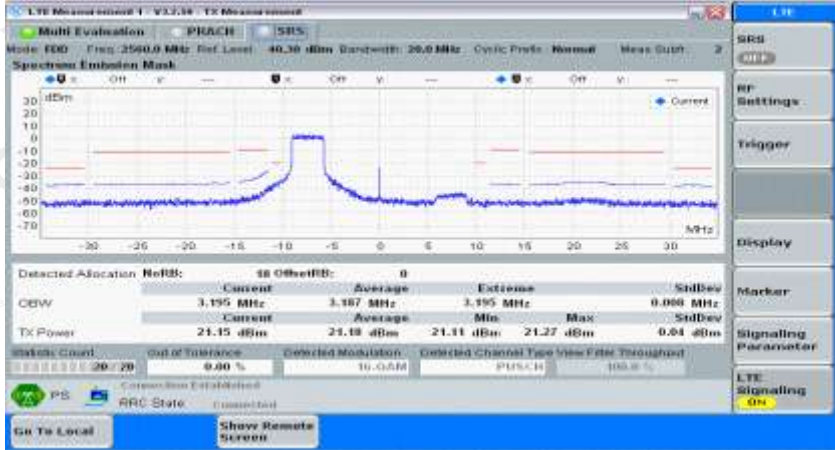
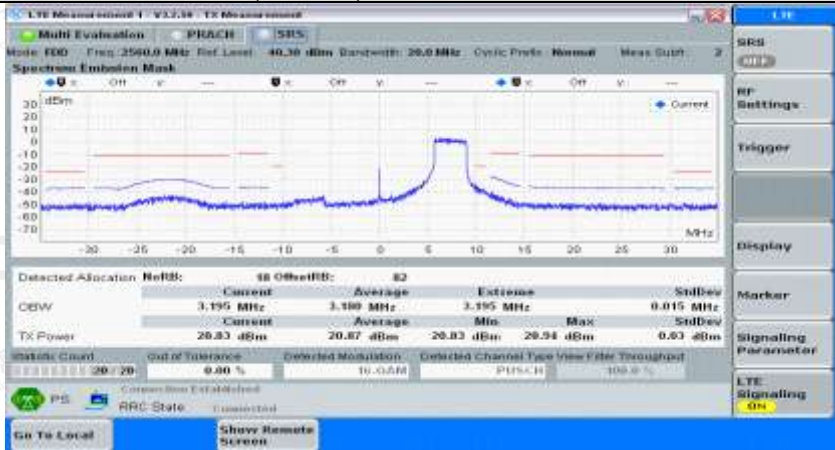
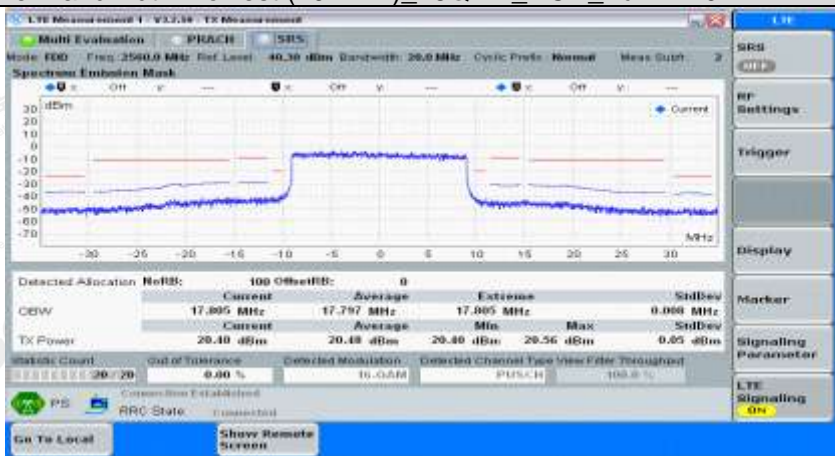
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTHV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
HTHV	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTHV	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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	16QAM	Low range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTHV	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

HTHV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0

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QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max

QPSK




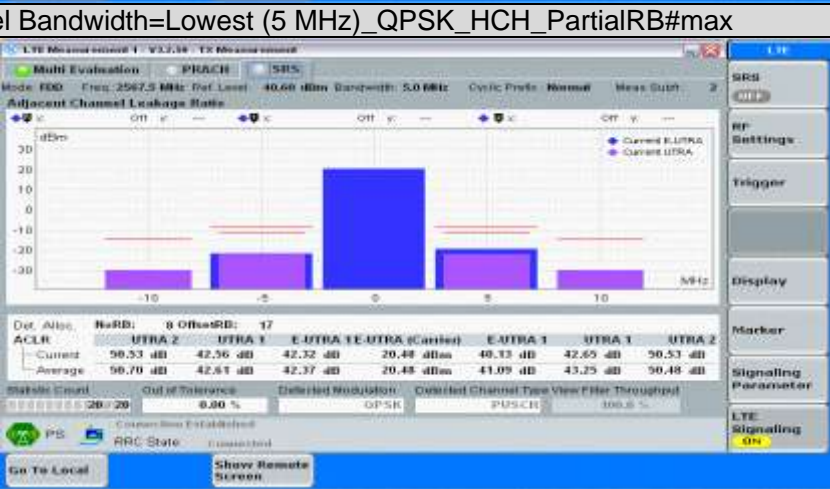
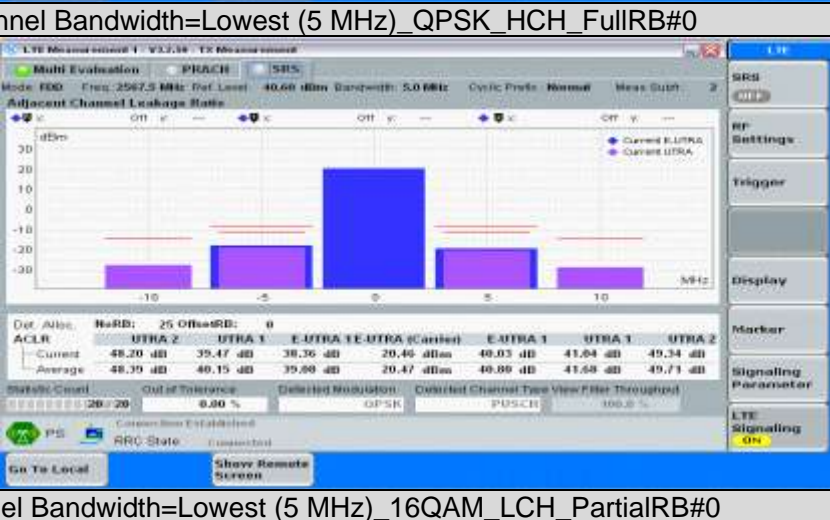
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0

QPSK






Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0




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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>


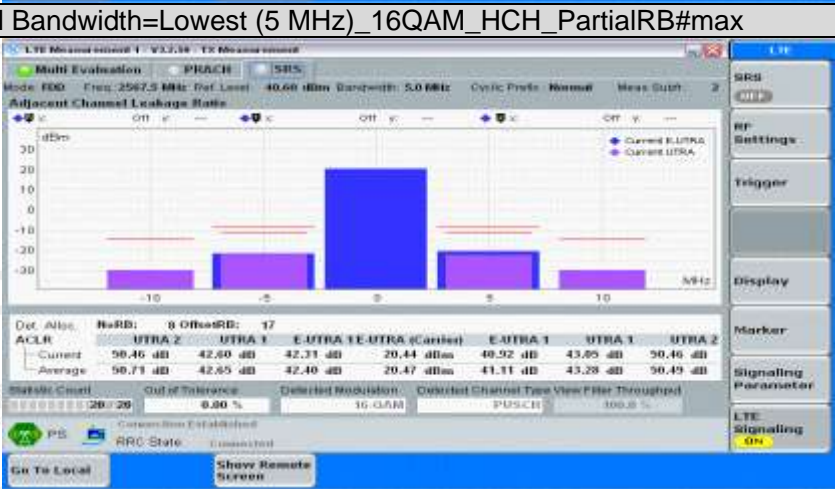
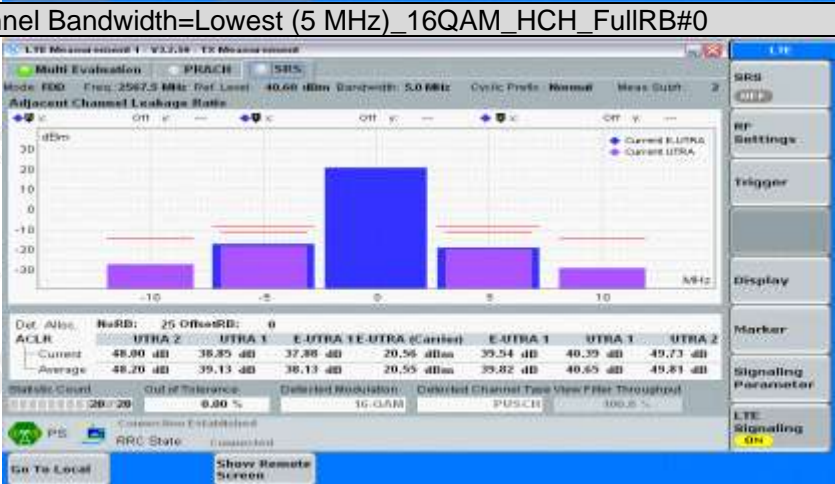
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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



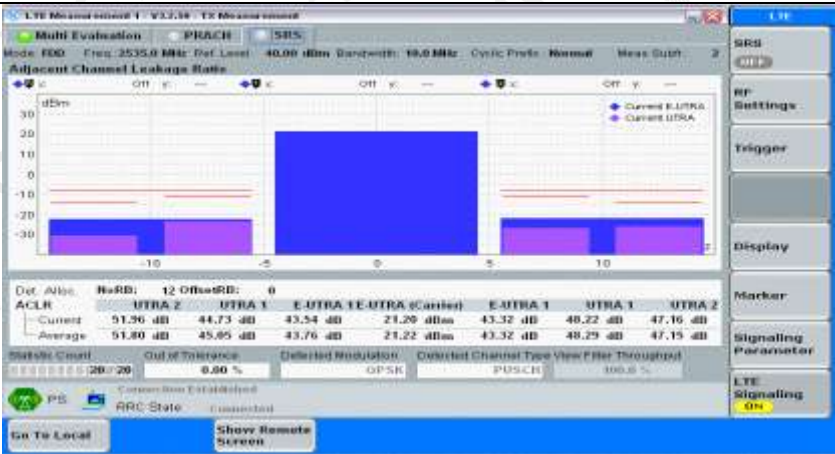

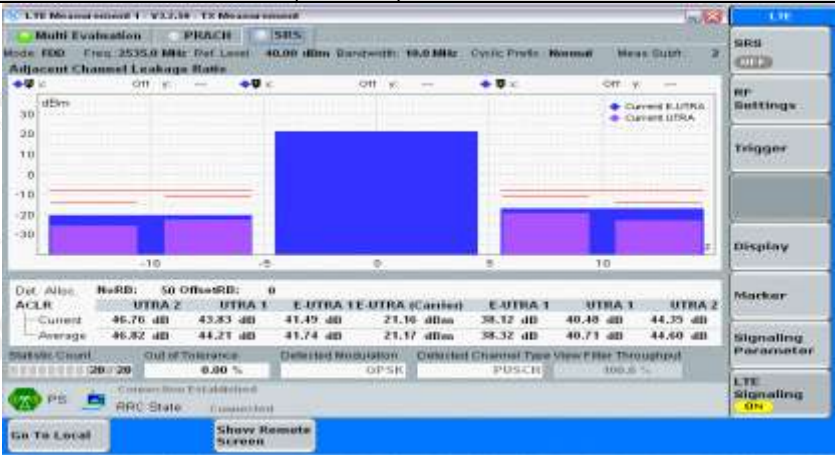
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

QPSK

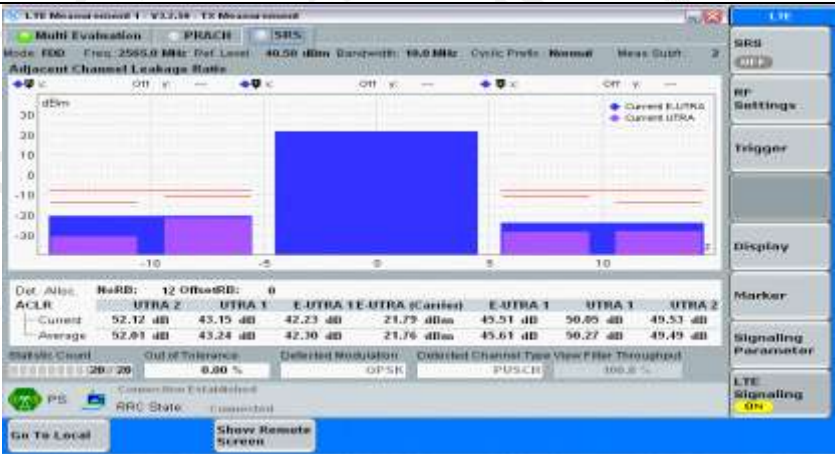




Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

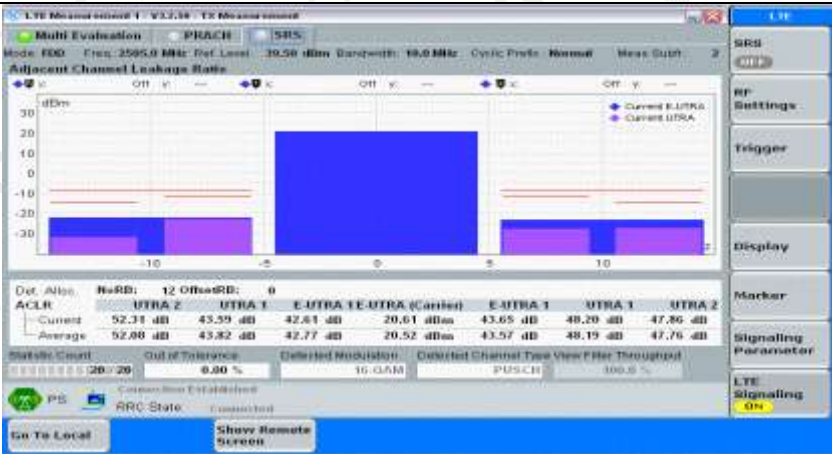


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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>

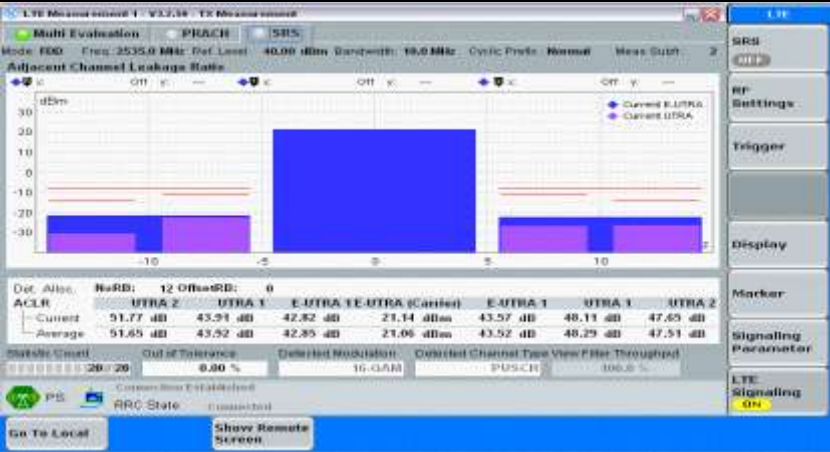


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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>

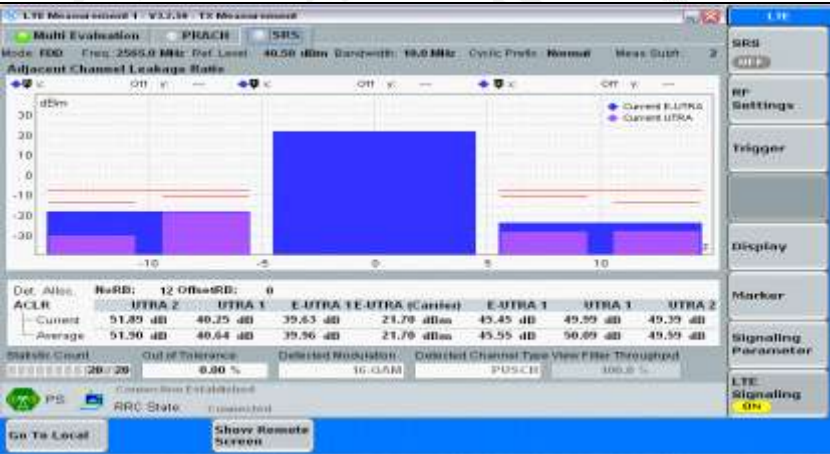


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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

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QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max

QPSK



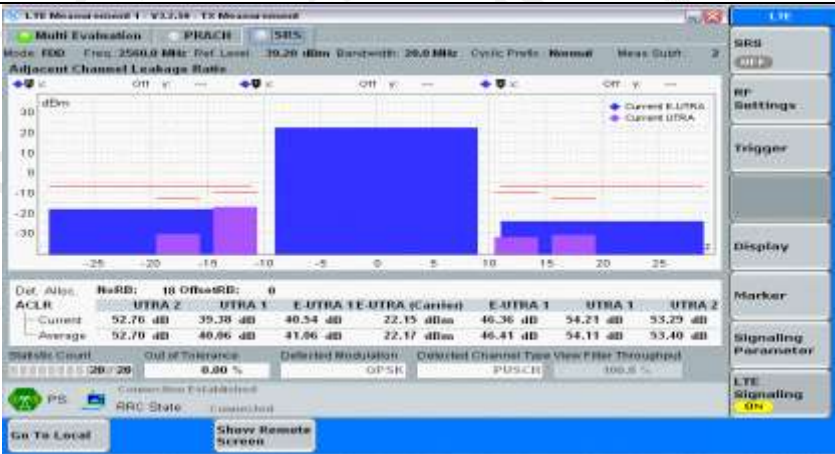


Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0

QPSK

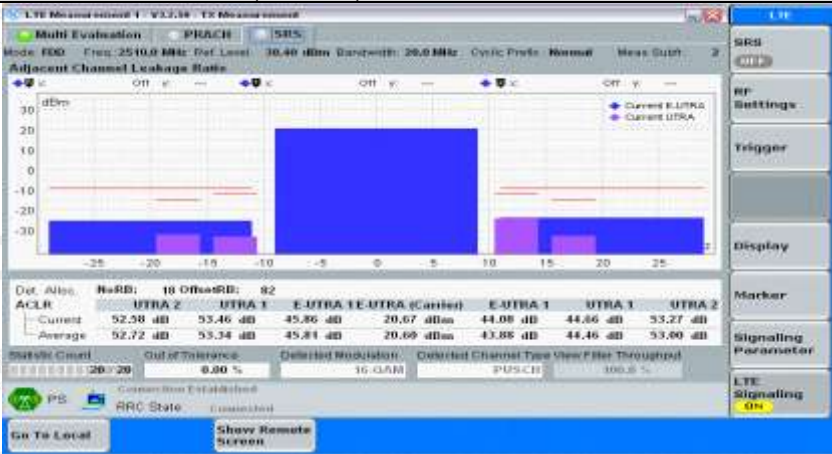
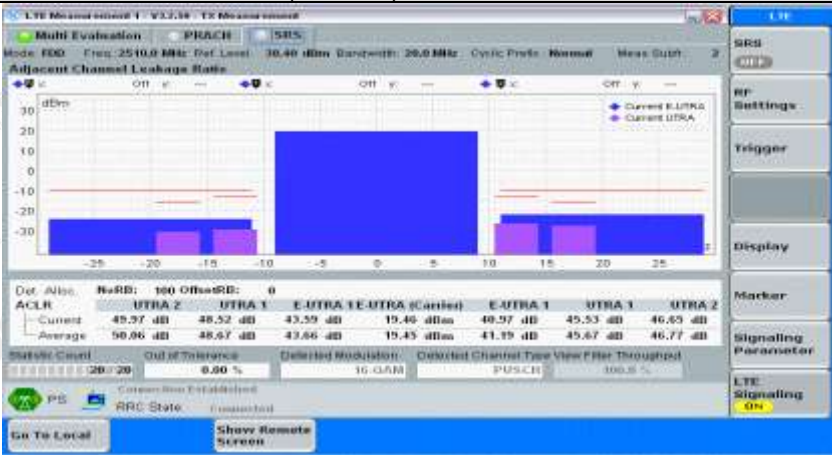


Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0

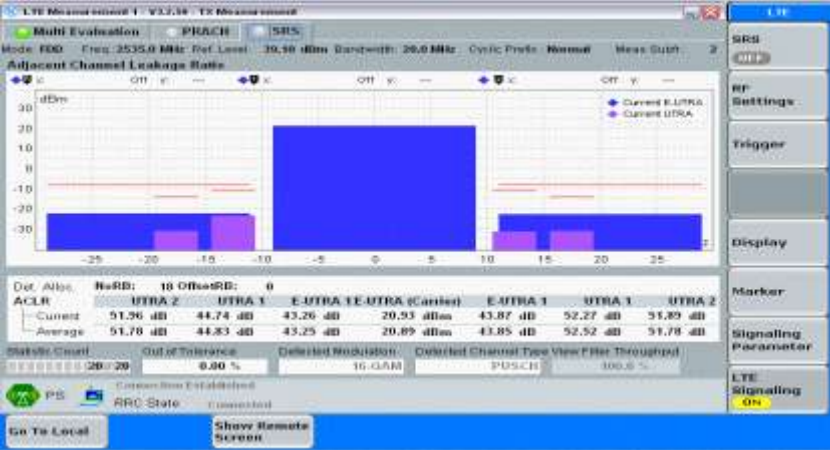


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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>

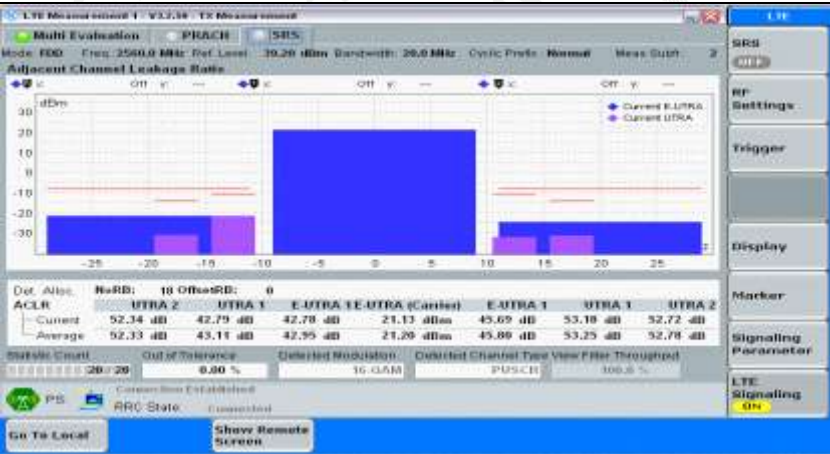
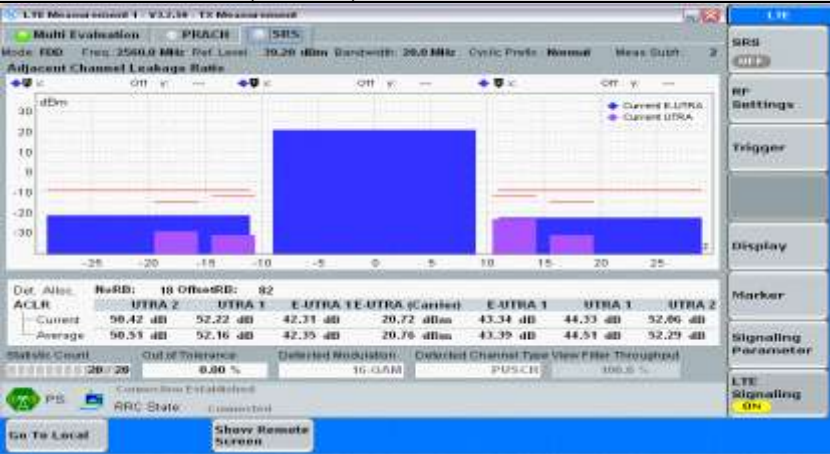

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

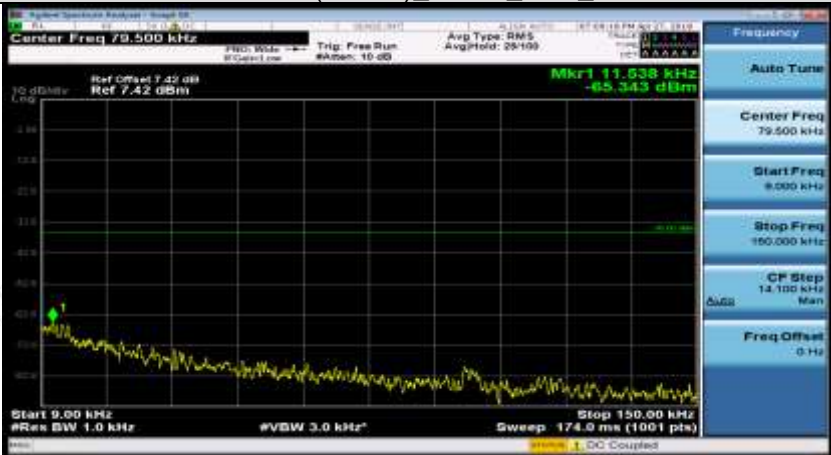


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Test Graphs

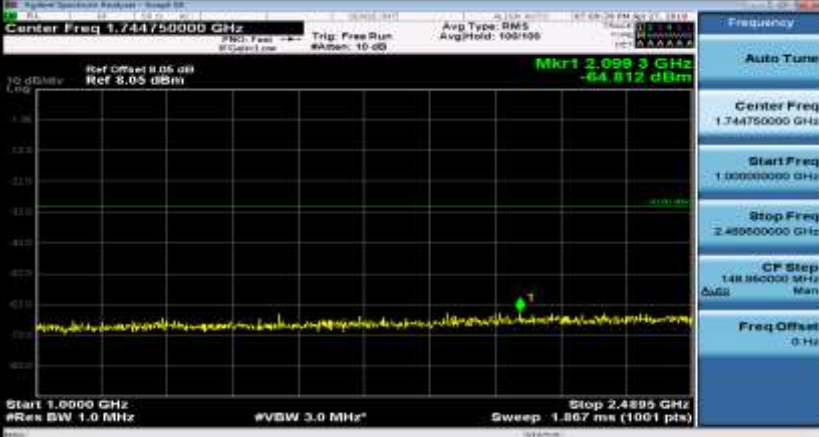

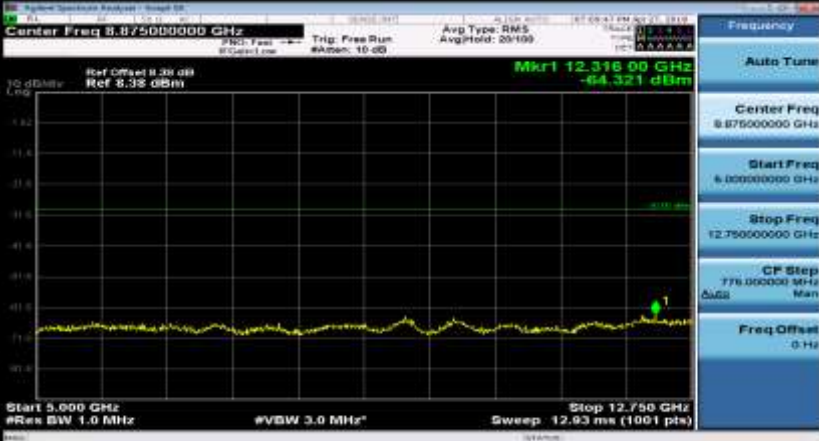
NTNV

Channel Bandwidth=Lowest (5 MHz)

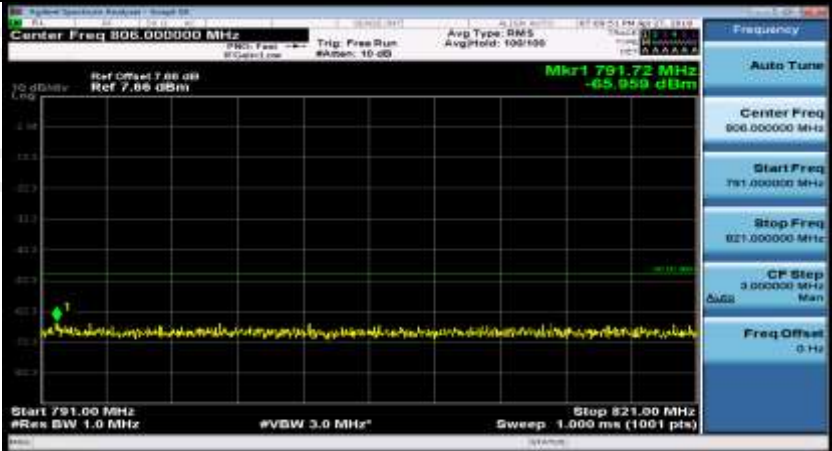
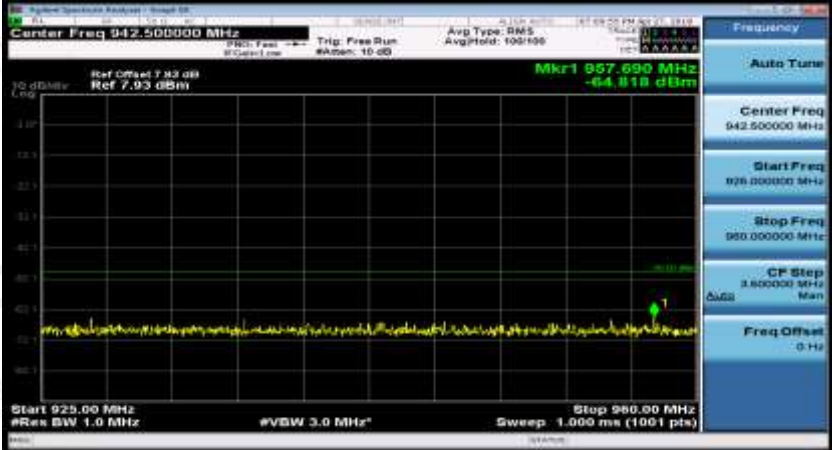
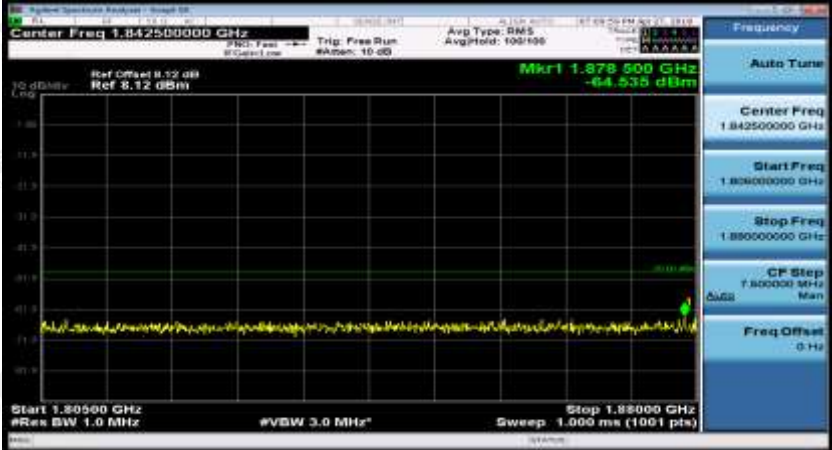
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#0

General	
General	
General	


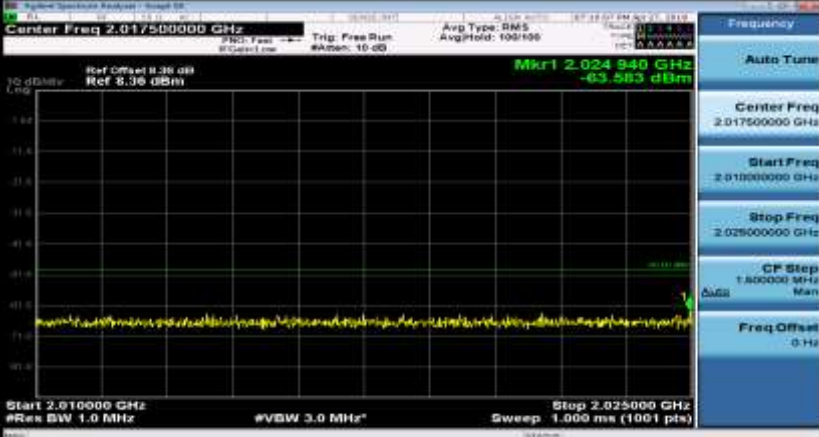

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General			
General			
General			

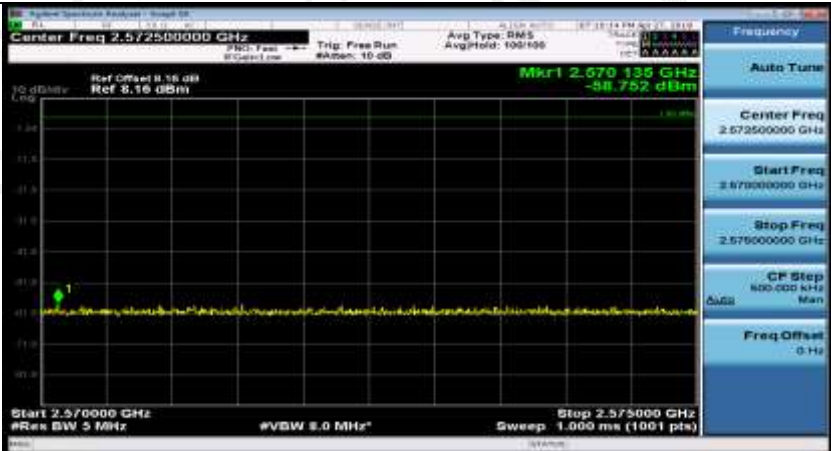
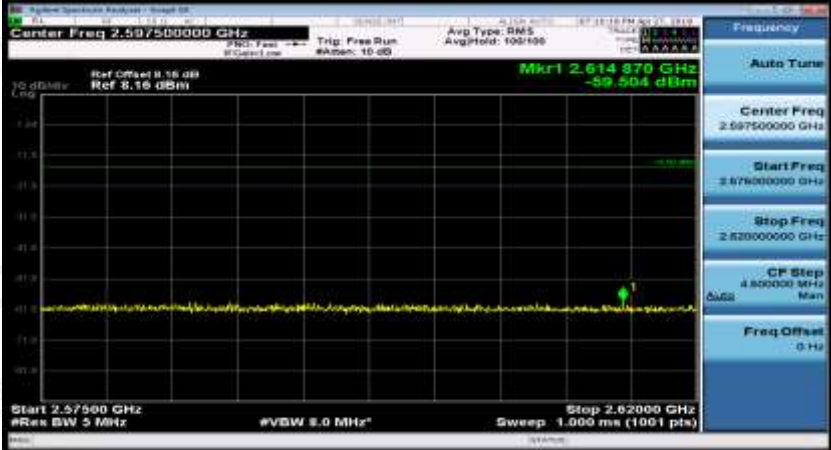
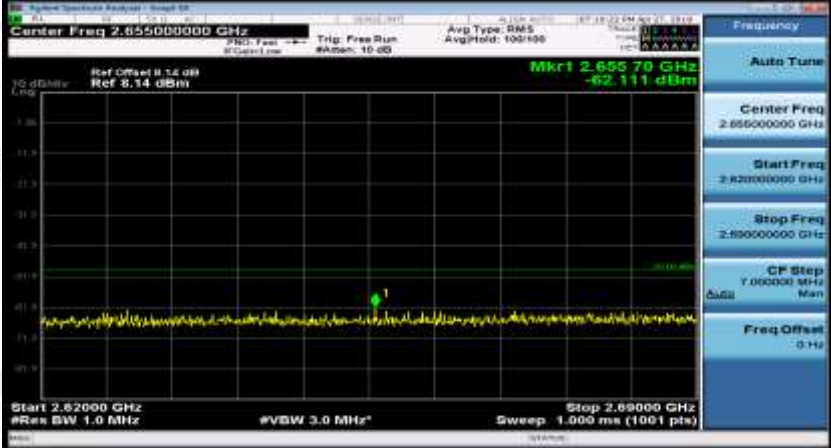
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Co-existence	
Co-existence	
Co-existence	

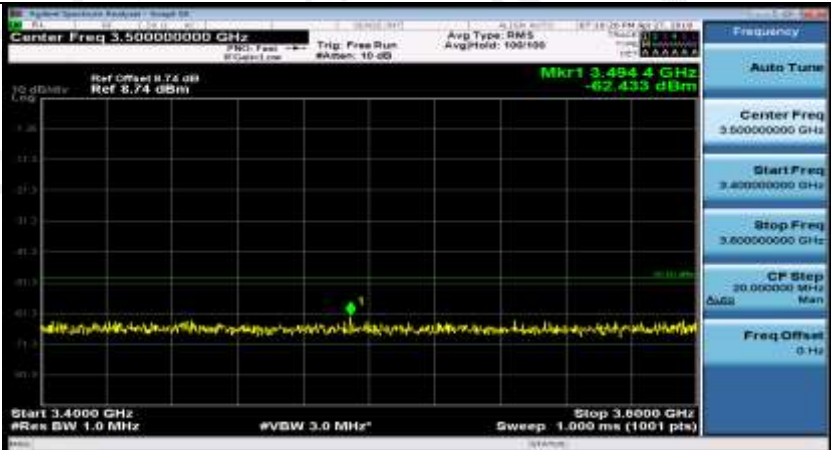
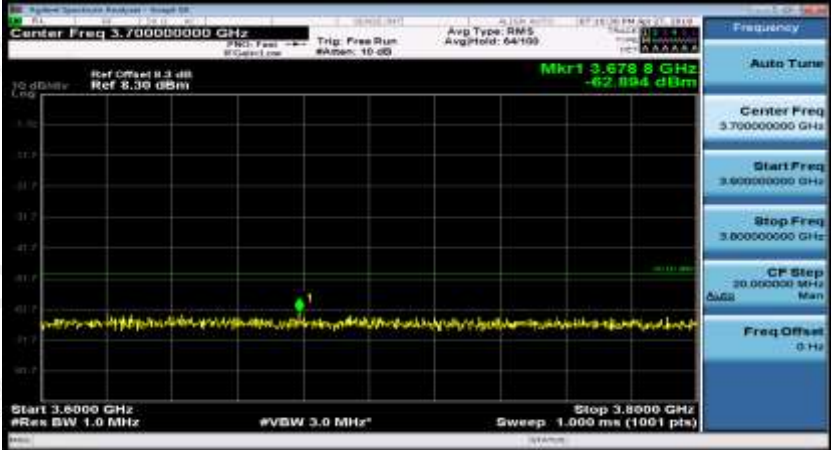
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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

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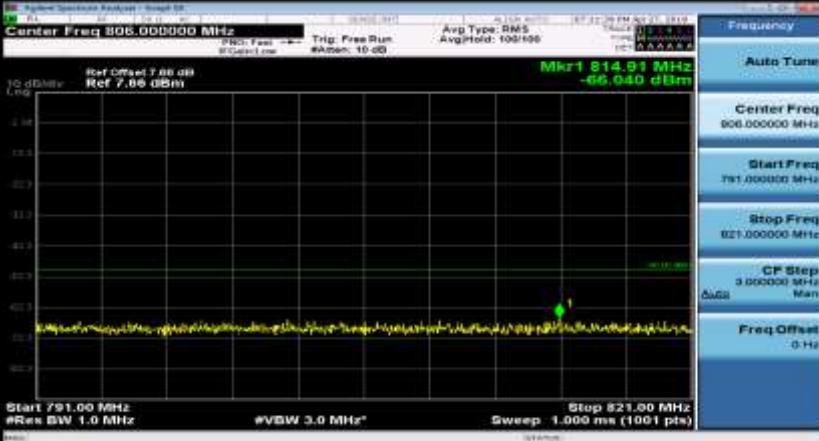
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	

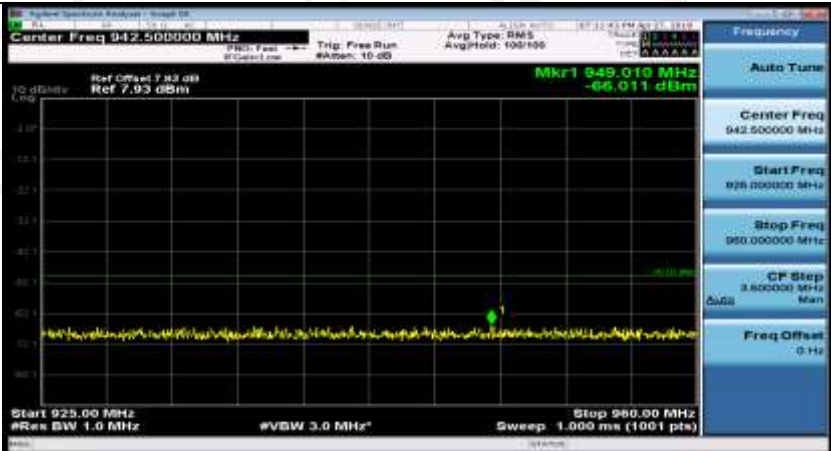
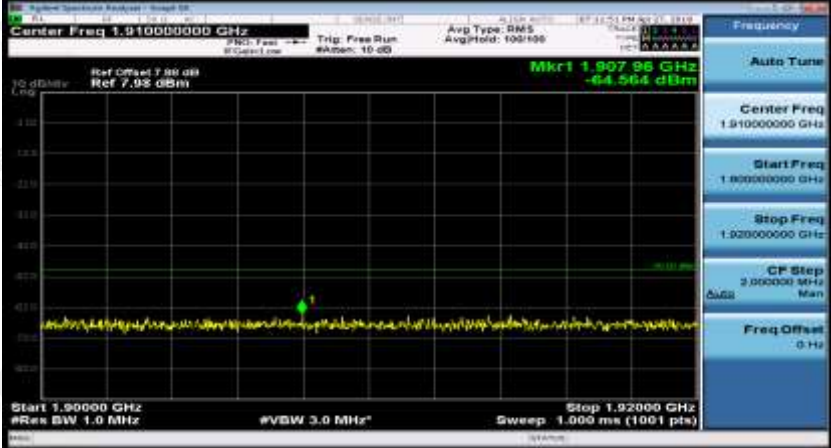
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General			
General			
General			

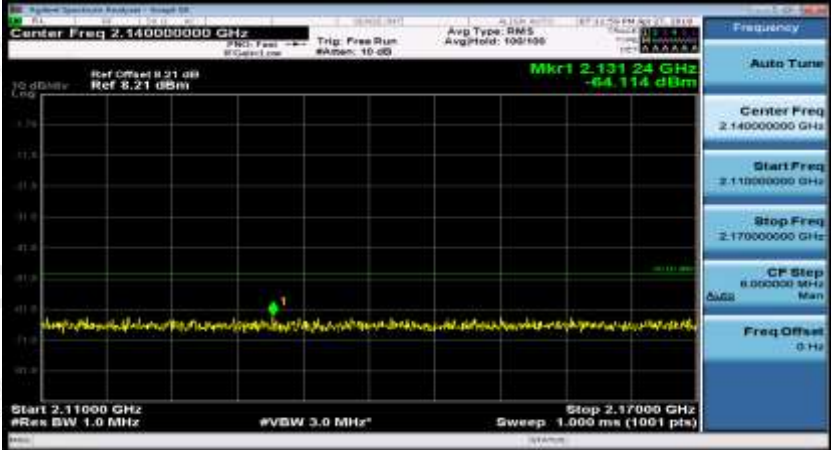
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General			
General			
Co-existence			


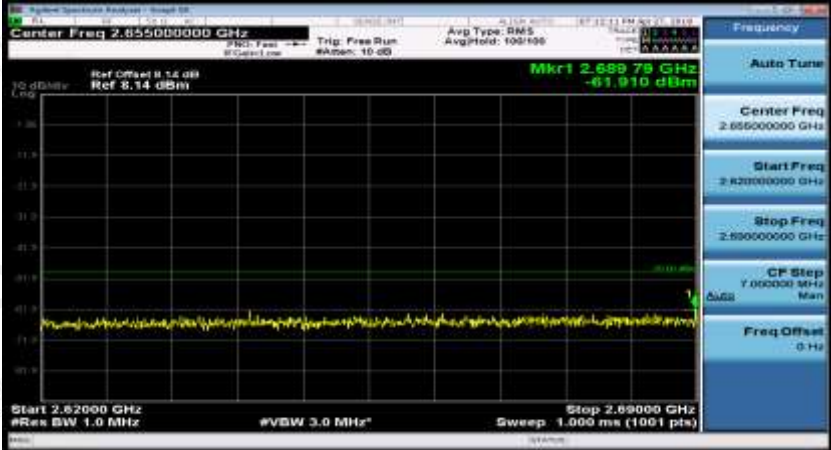
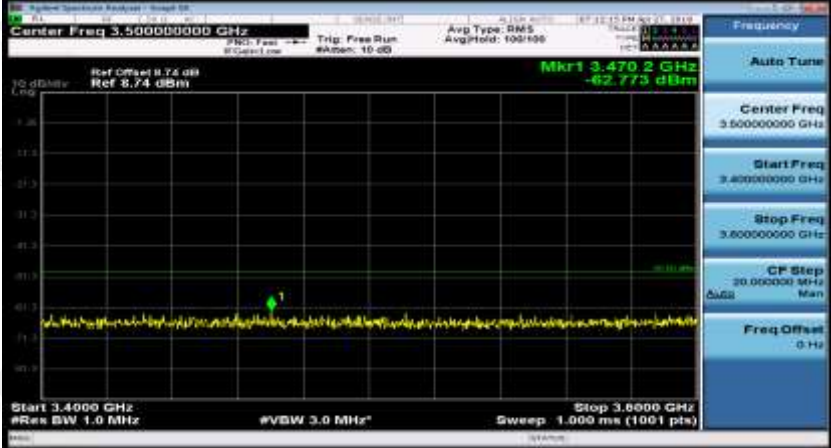
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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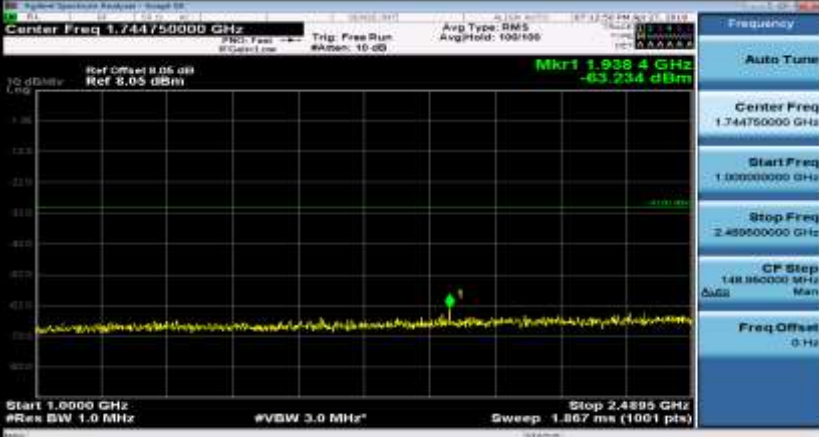
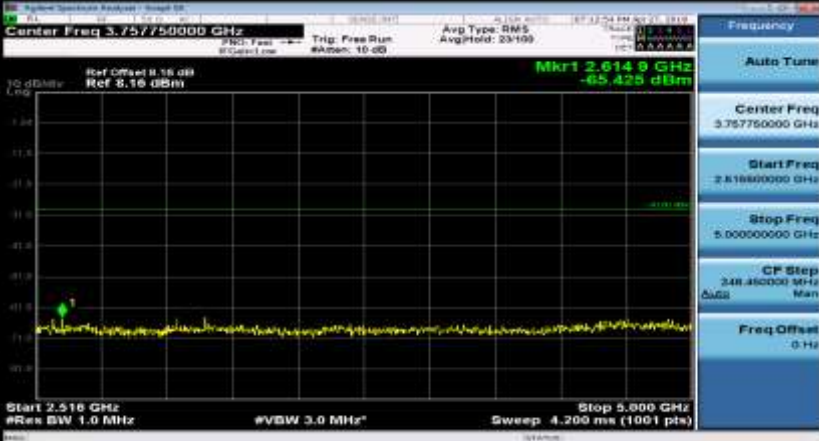
Co-existence	
Co-existence	
Co-existence	

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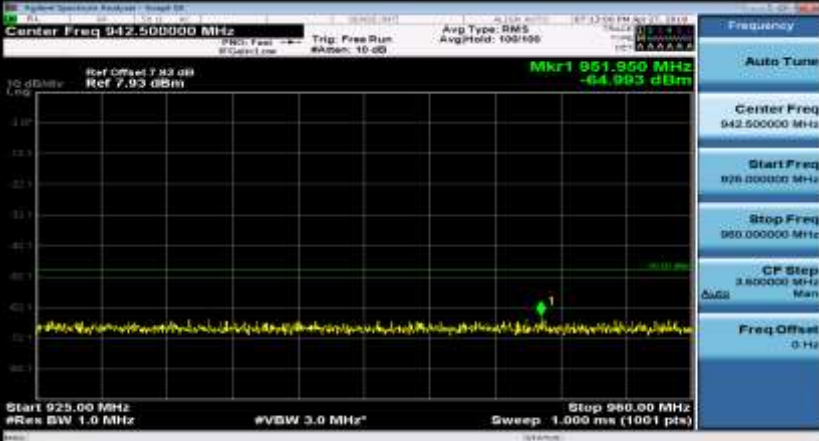
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0	
General	
General	

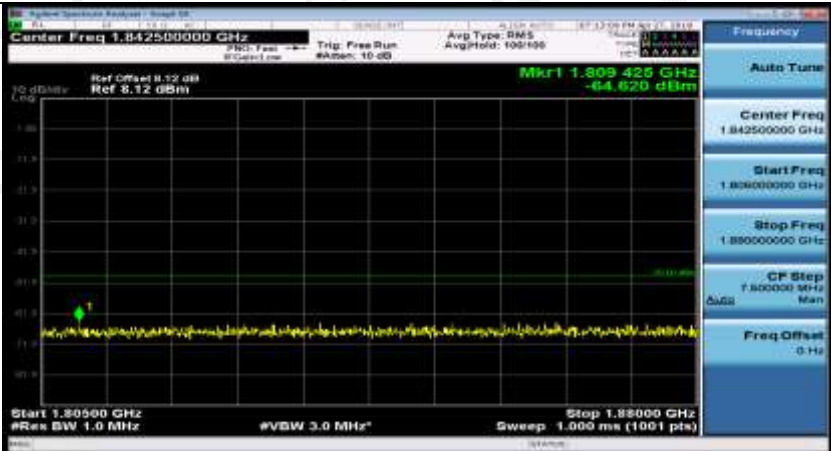
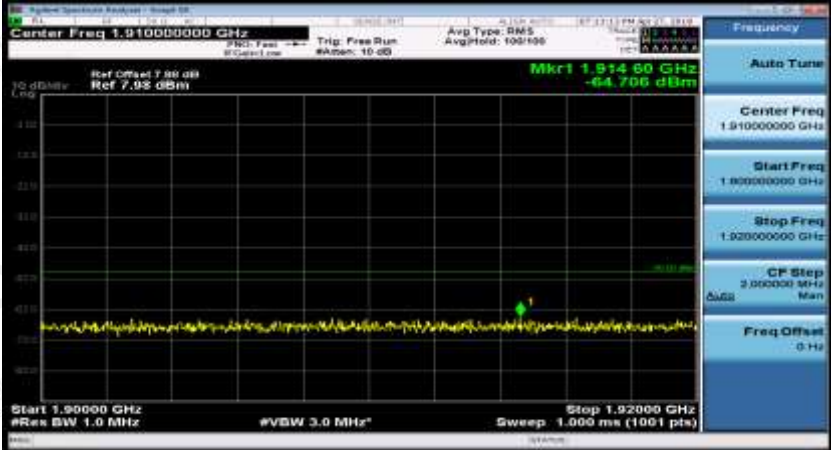
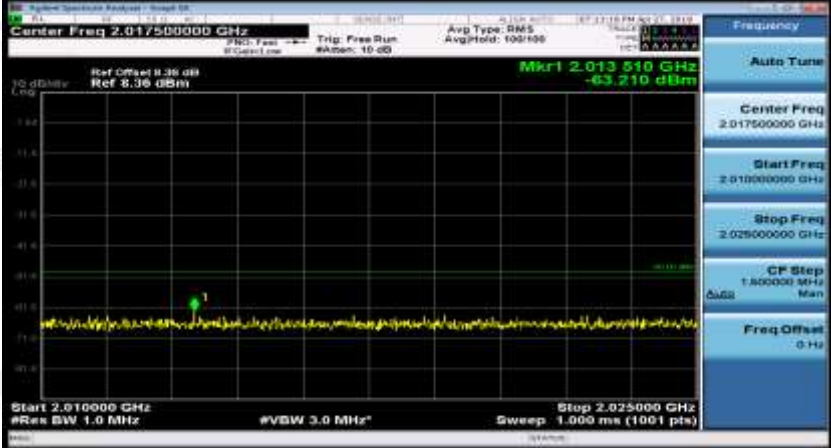
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General			
General			
General			

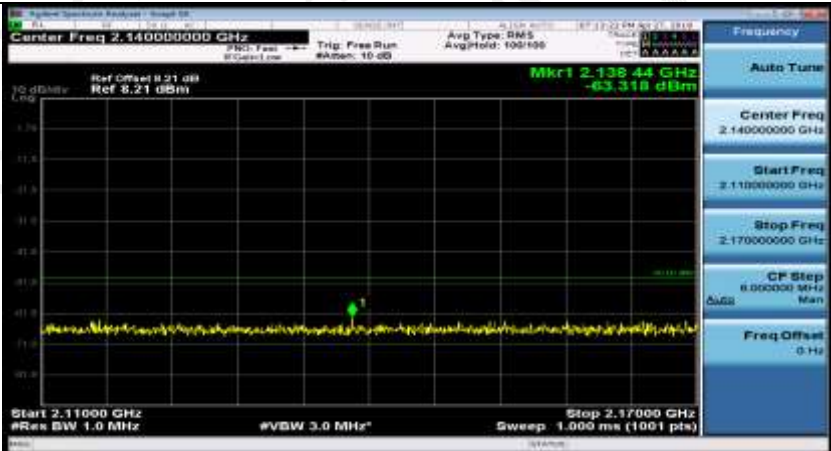
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General		 <p>Agilent Spectrum Analyzer - Sweep 50 Center Freq 8.87500000 GHz Ref Offset 0.38 dB Ref 8.38 dBm Mkr1 12.19200 GHz -64.261 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 12.93 ms (1001 pts)</p>	
Co-existence		 <p>Agilent Spectrum Analyzer - Sweep 50 Center Freq 806.000000 MHz Ref Offset 7.86 dB Ref 7.86 dBm Mkr1 799.04 MHz -65.316 dBm Start 791.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	
Co-existence		 <p>Agilent Spectrum Analyzer - Sweep 50 Center Freq 942.500000 MHz Ref Offset 7.93 dB Ref 7.93 dBm Mkr1 951.950 MHz -64.983 dBm Start 925.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	

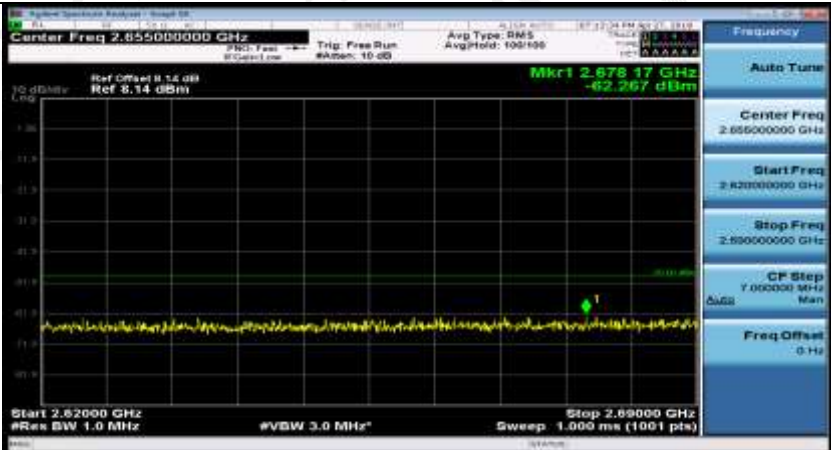
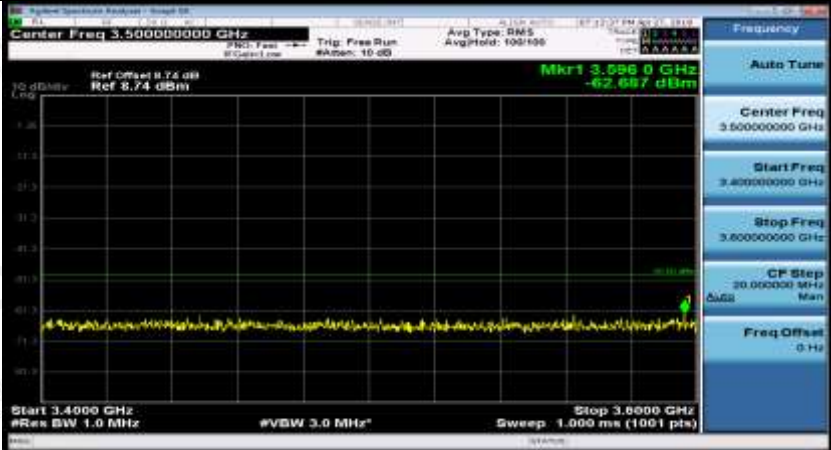
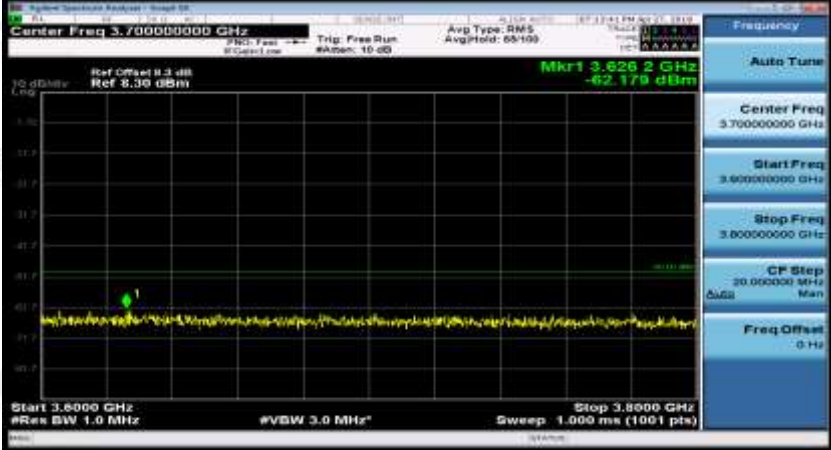
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Co-existence	
Co-existence	
Co-existence	

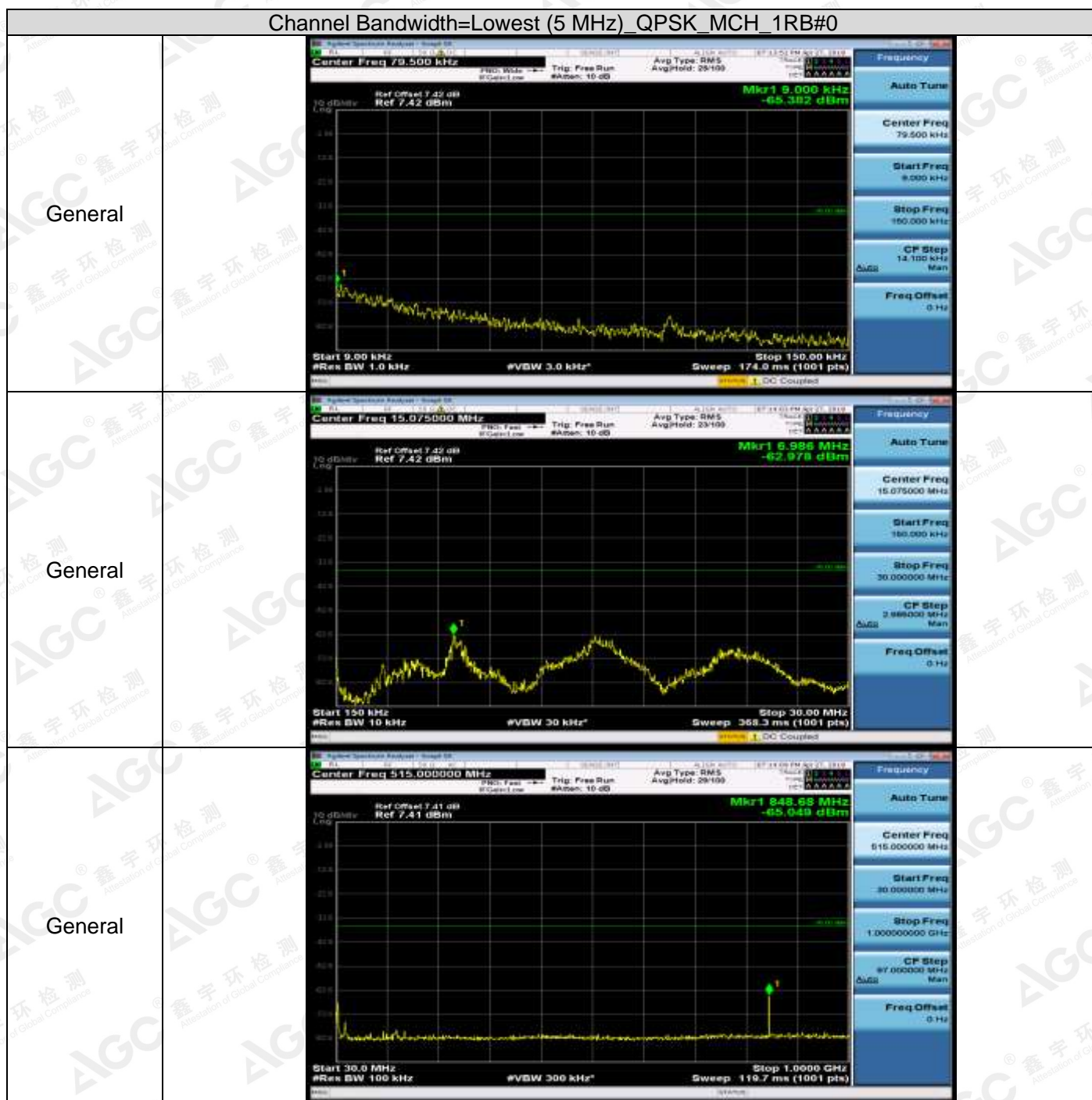
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Co-existence	
Co-existence	
Co-existence	

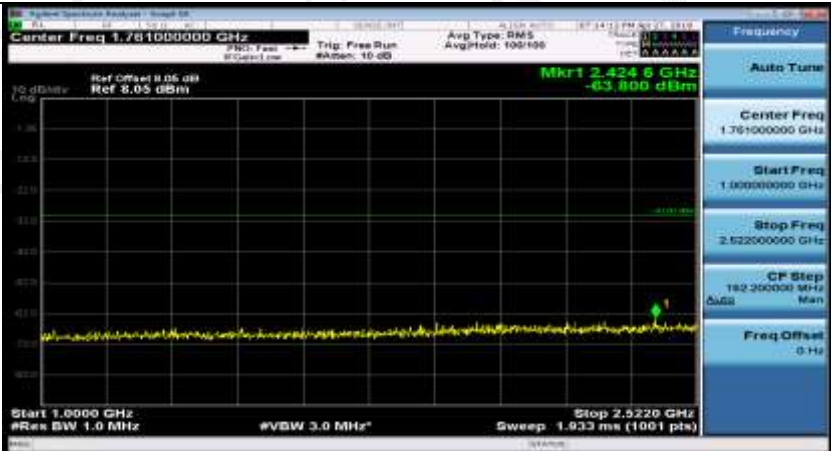


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Co-existence	
Co-existence	
Co-existence	
Additional	NA

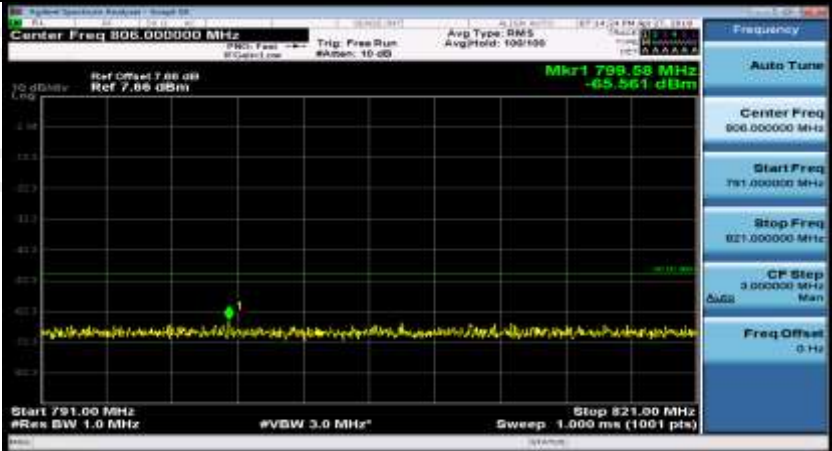
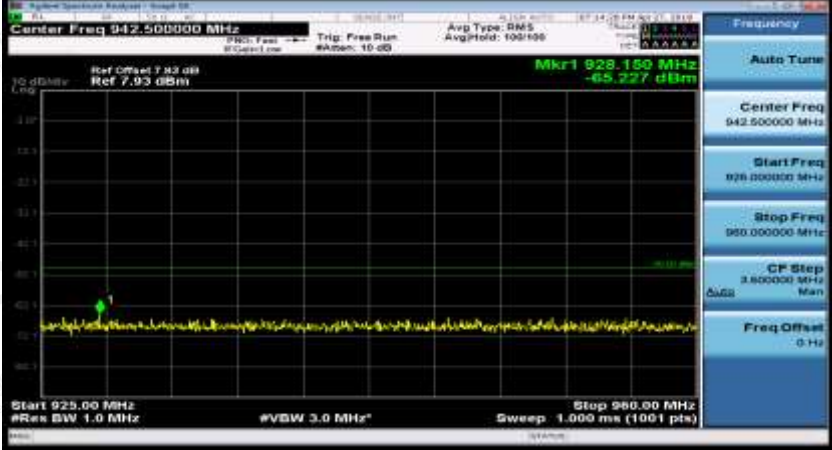
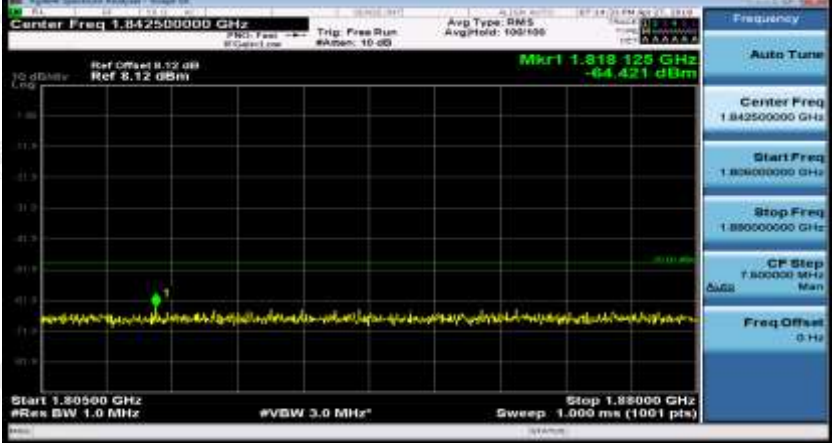
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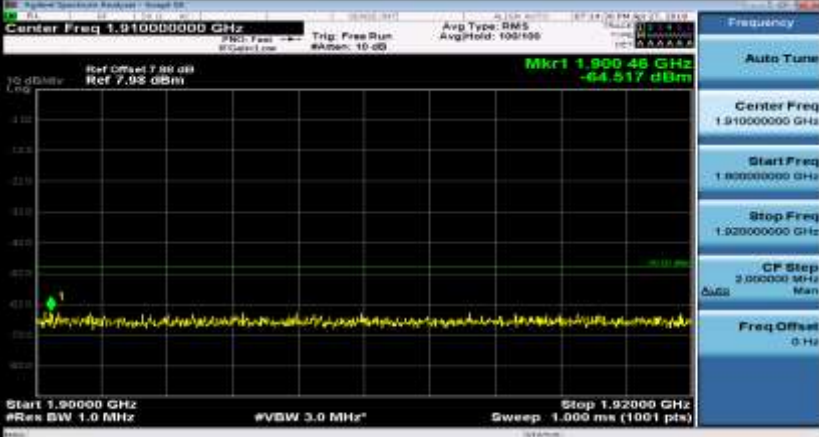
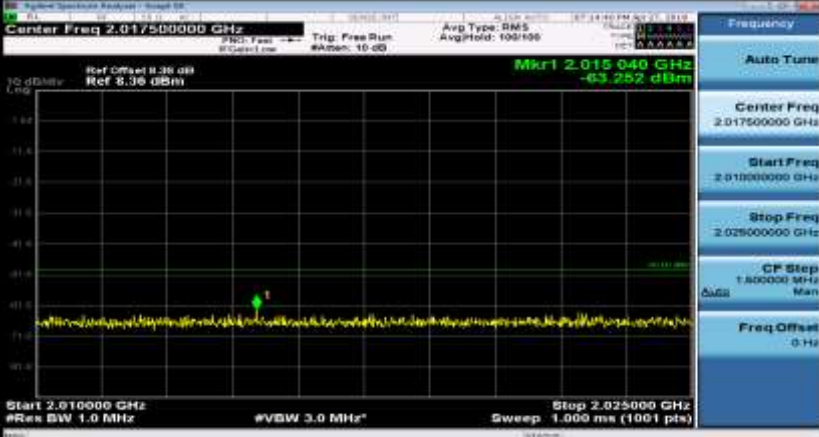
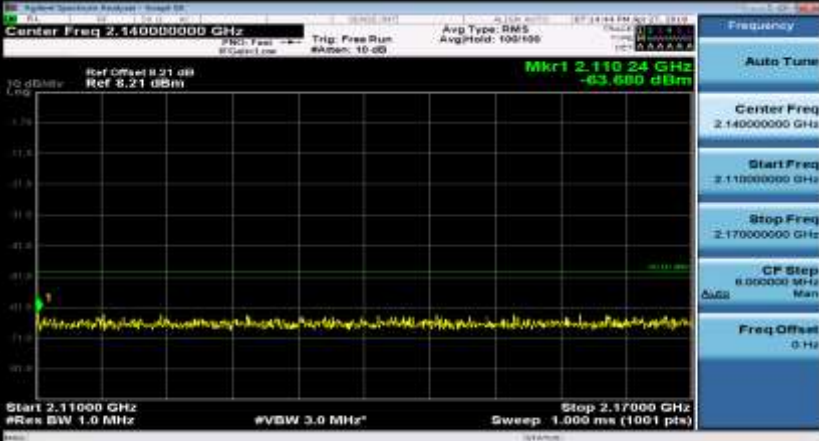
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General	
General	
General	

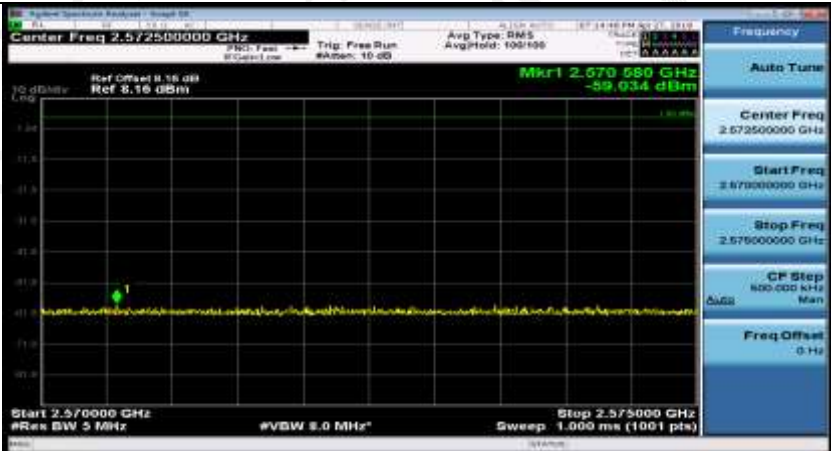
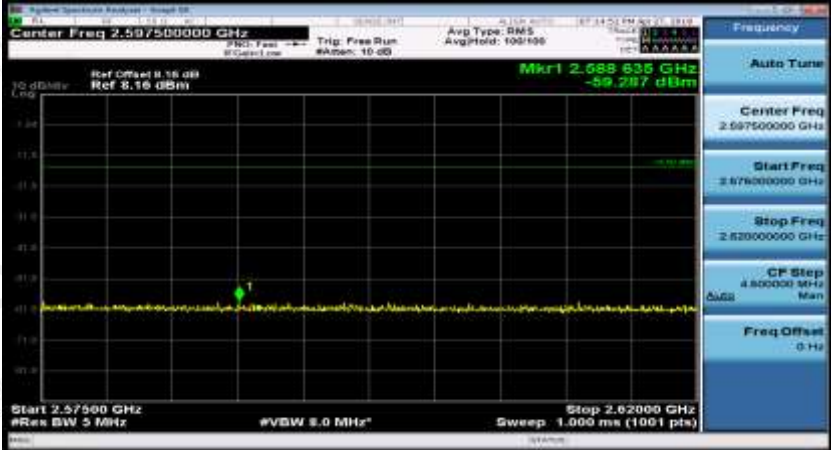
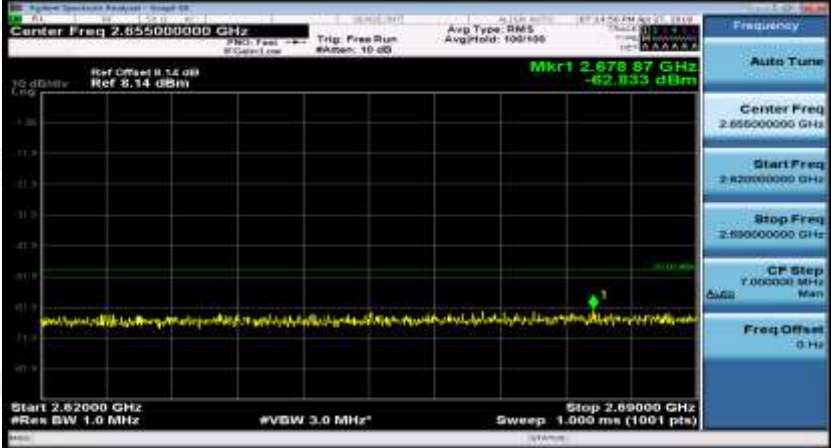
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Co-existence	
Co-existence	
Co-existence	

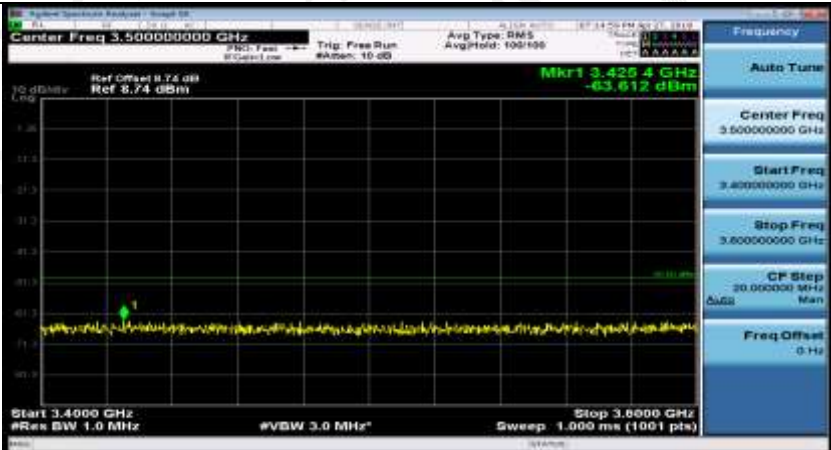
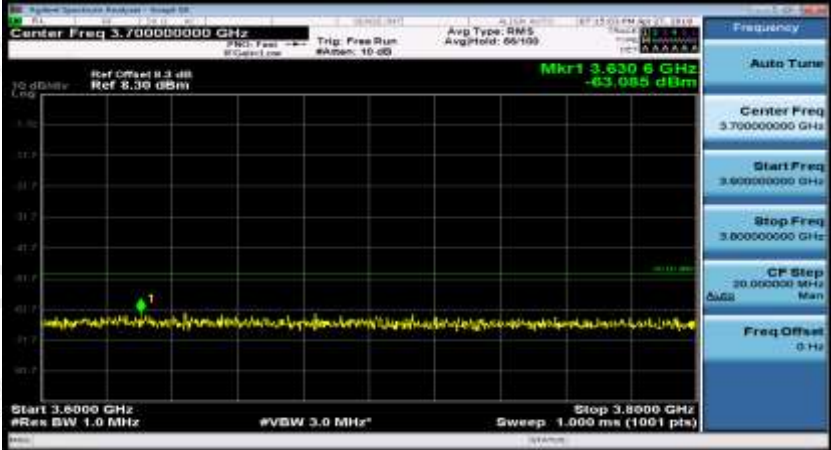
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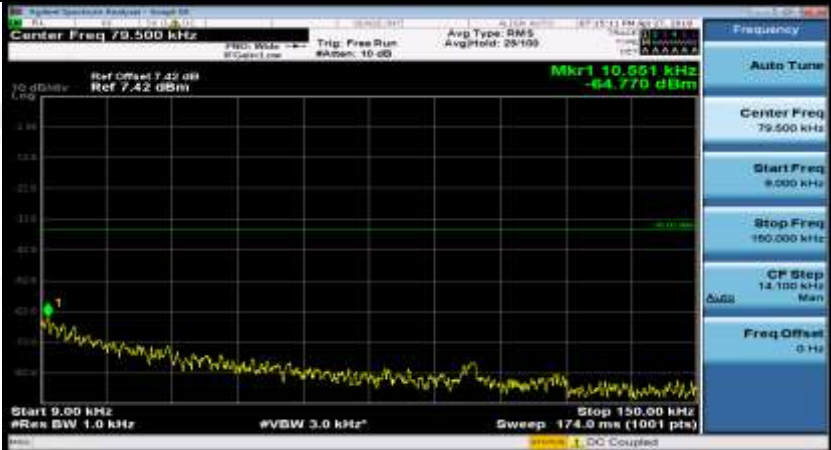
Co-existence		 <p>Center Freq 1.91000000 GHz Mkr1 1.90048 GHz -64.517 dBm Start 1.90000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.92000 GHz Sweep 1.000 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 2.01750000 GHz Mkr1 2.015040 GHz -63.252 dBm Start 2.01000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 2.02500 GHz Sweep 1.000 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 2.14000000 GHz Mkr1 2.11024 GHz -63.680 dBm Start 2.11000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 2.17000 GHz Sweep 1.000 ms (1001 pts)</p>	

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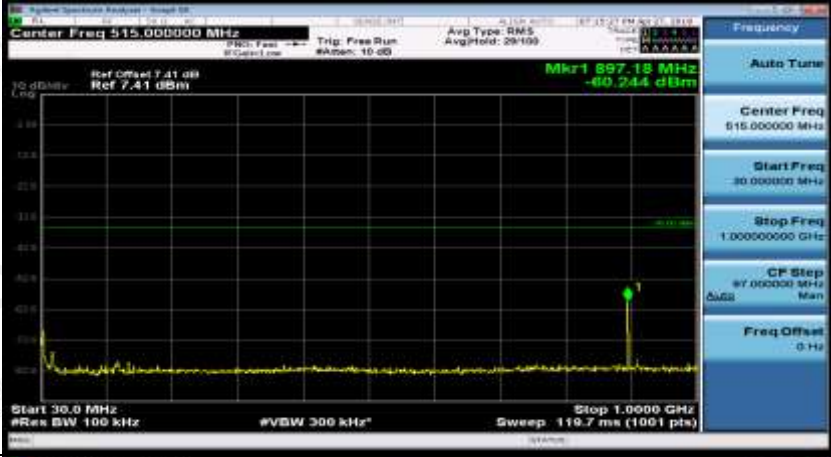
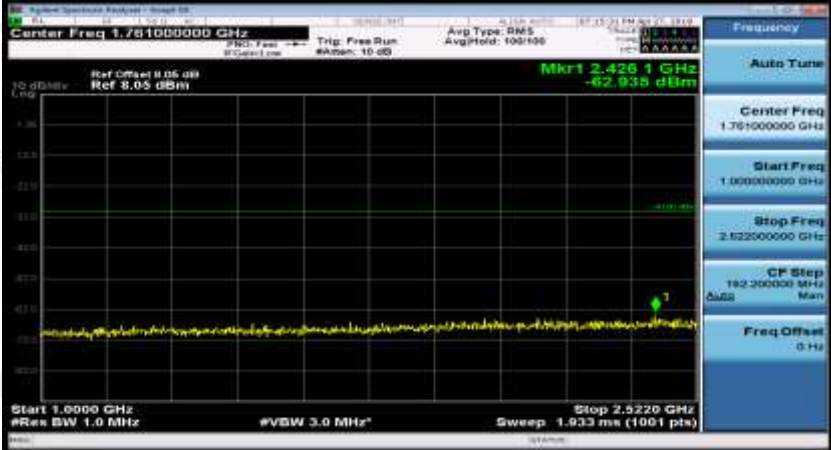
Co-existence	
Co-existence	
Co-existence	

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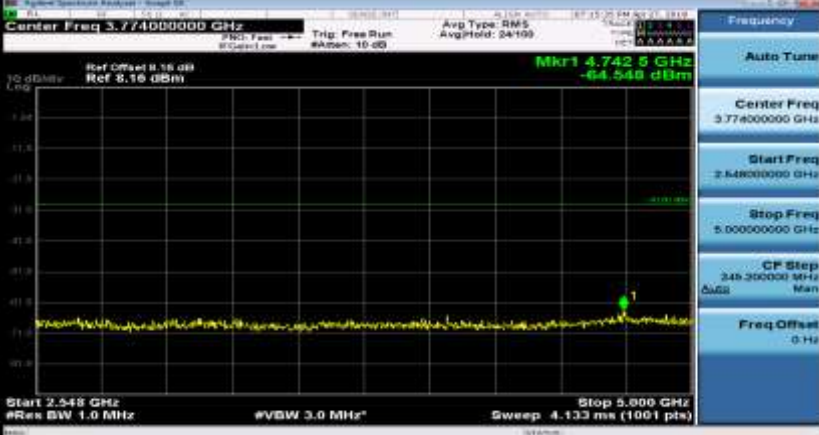

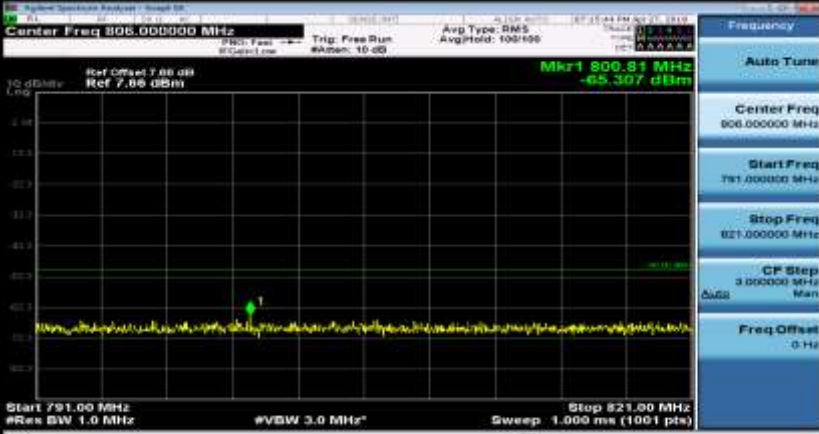
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	

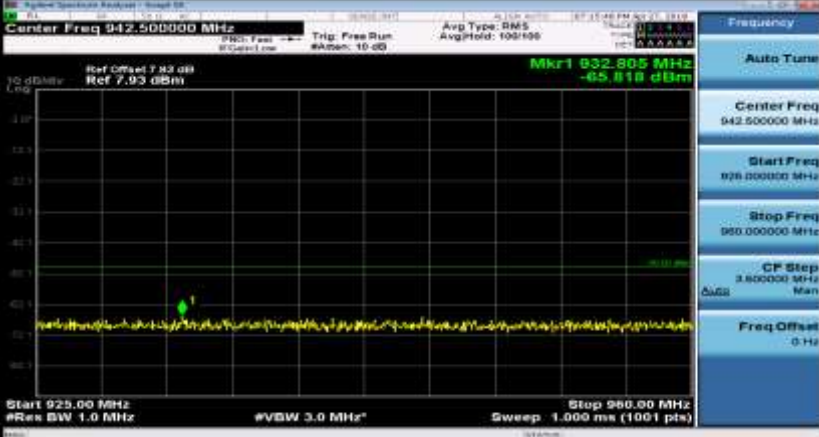
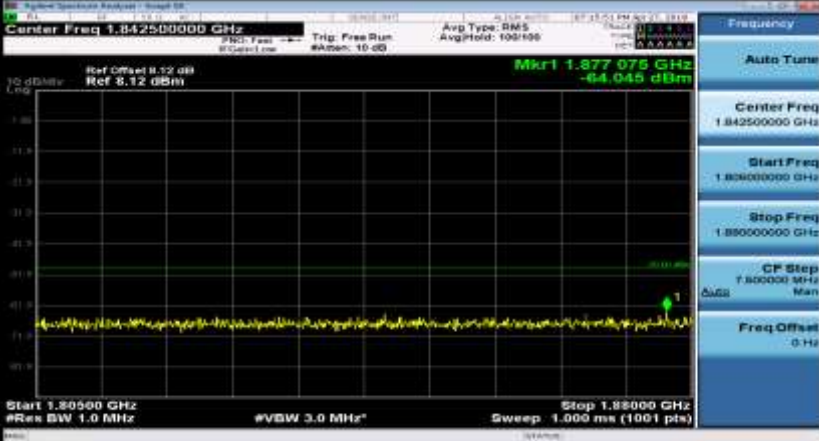
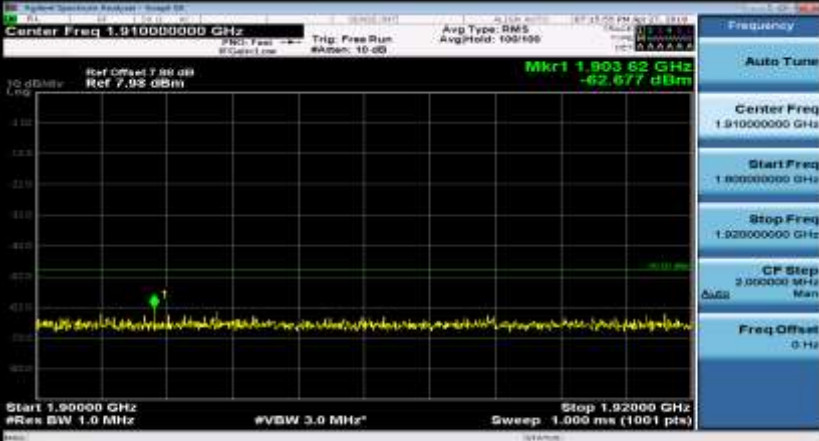
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General		
General		
General		

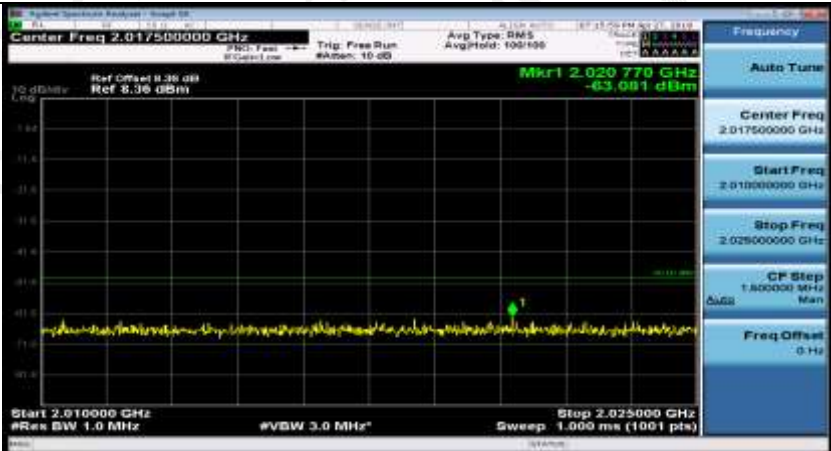
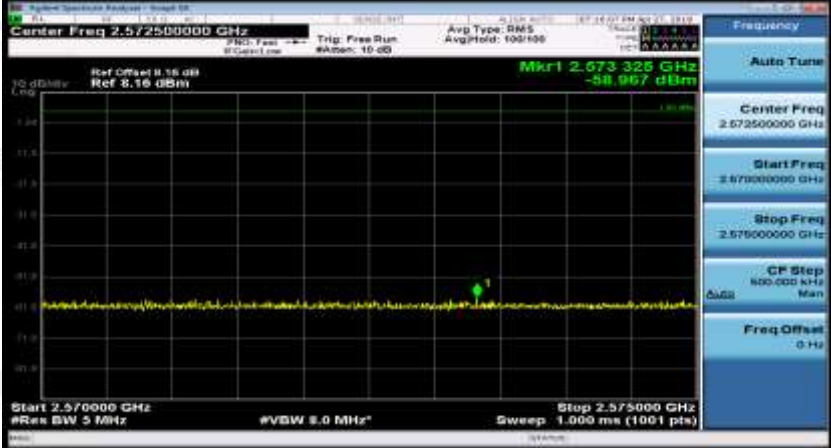
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General			
General			
Co-existence			

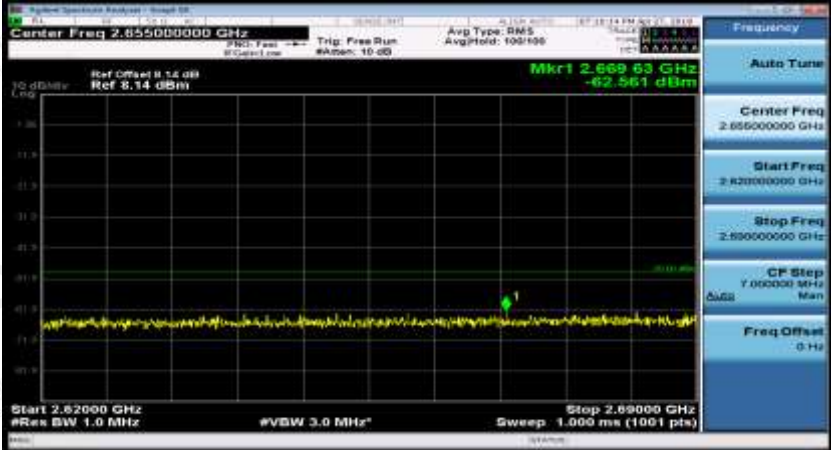
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Co-existence			
Co-existence			
Co-existence			

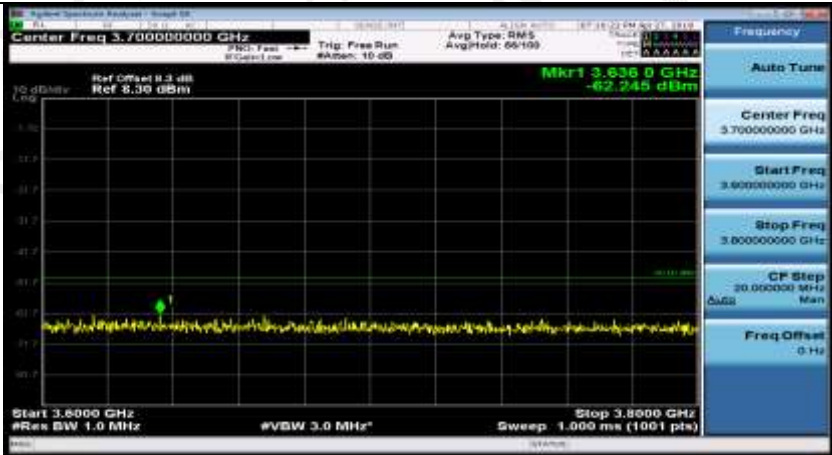
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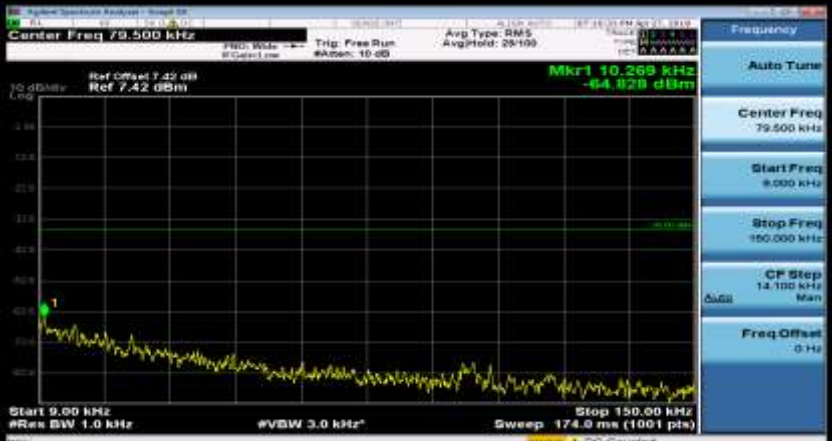
Co-existence	
Co-existence	
Co-existence	

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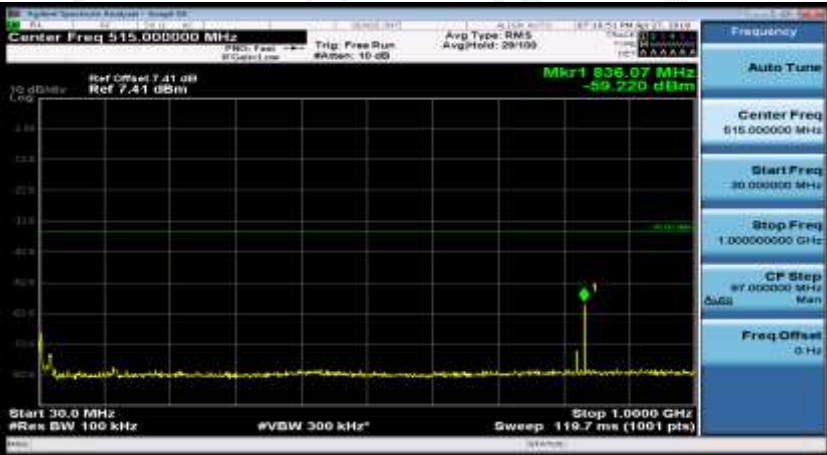
Co-existence	
Co-existence	
Co-existence	

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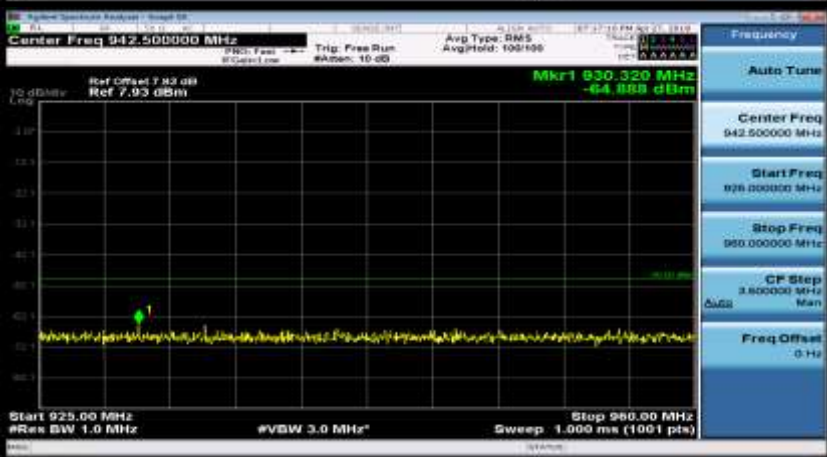
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
General	
General	

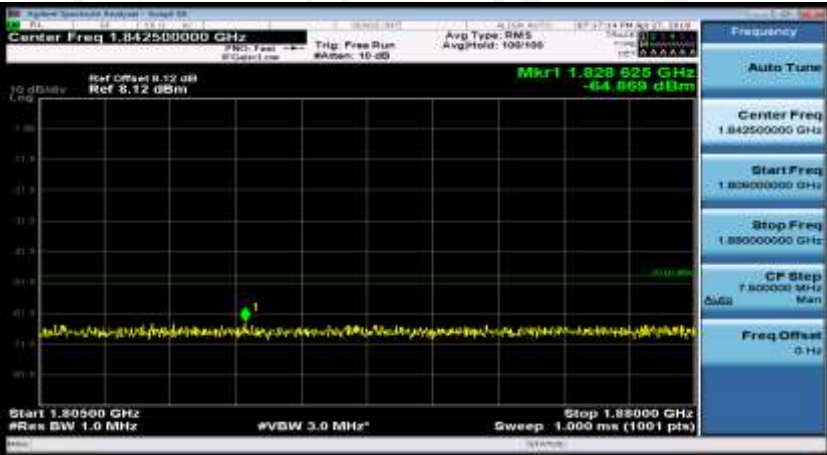

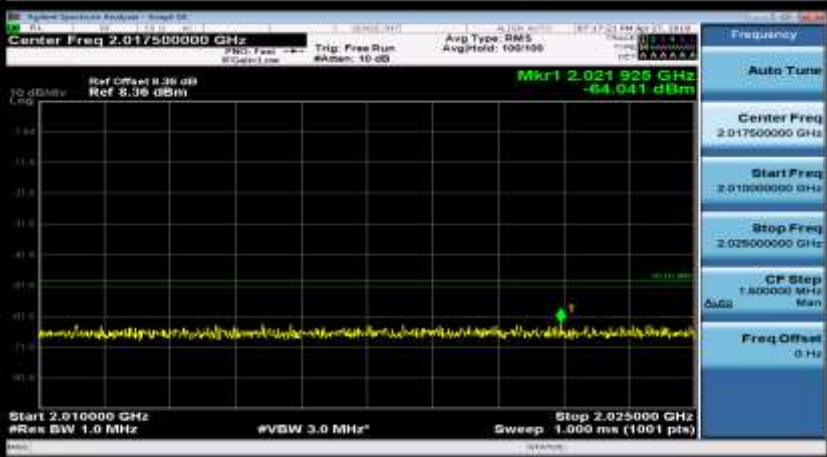
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General	
General	
General	

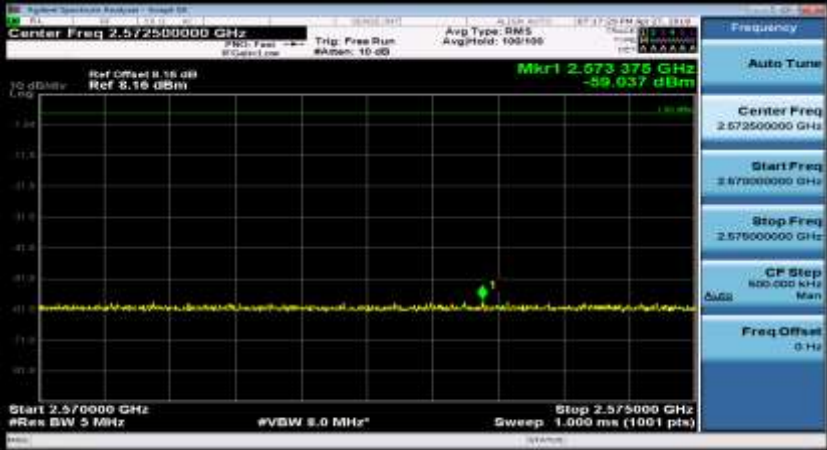
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General		
Co-existence		
Co-existence		

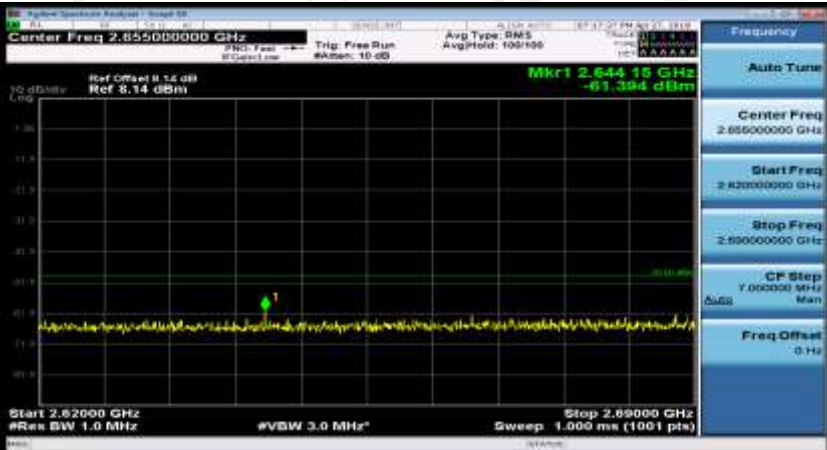
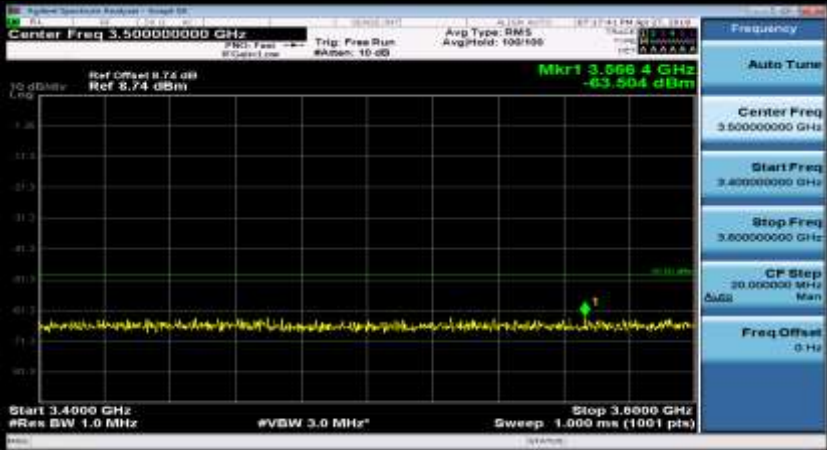
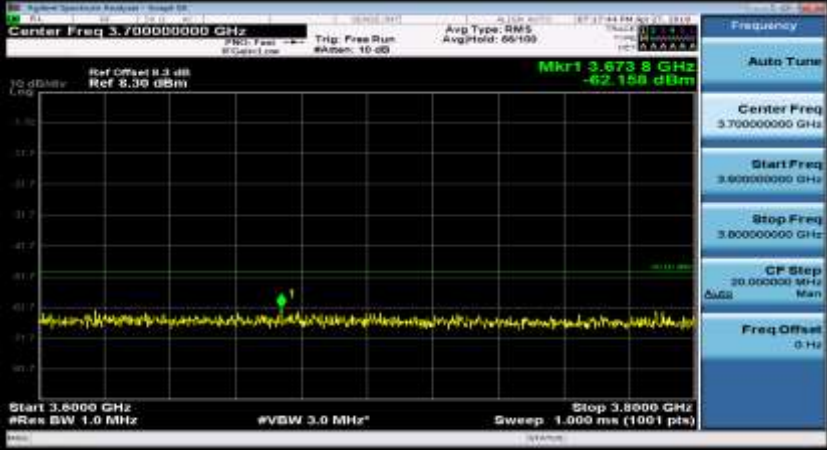
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Co-existence	
Co-existence	
Co-existence	



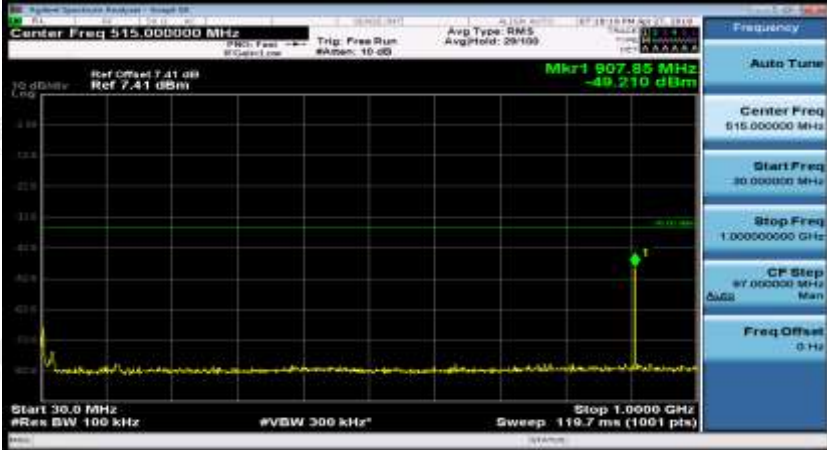
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Co-existence	
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Co-existence	



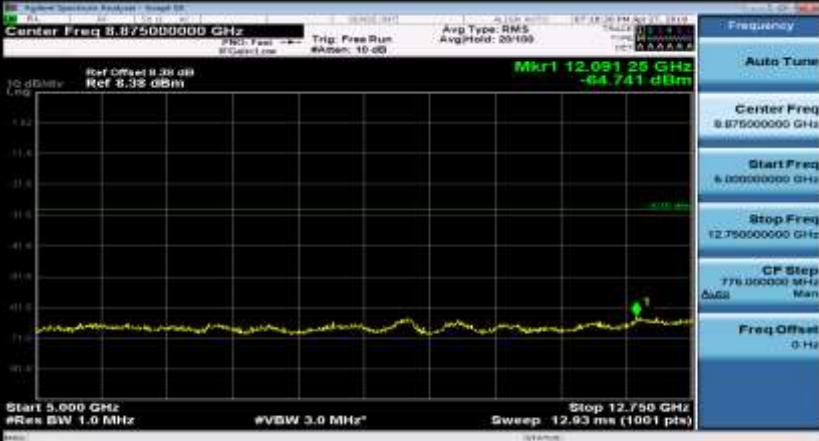
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Co-existence	
Co-existence	
Co-existence	
Additional	NA

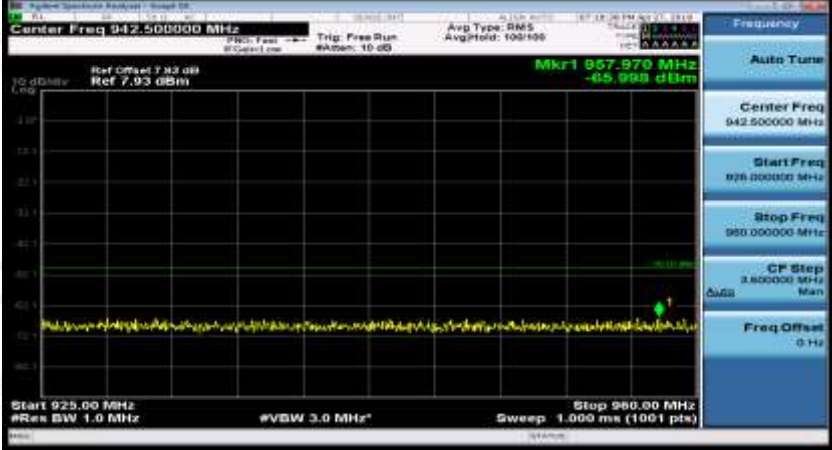
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Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0	
General	
General	
General	

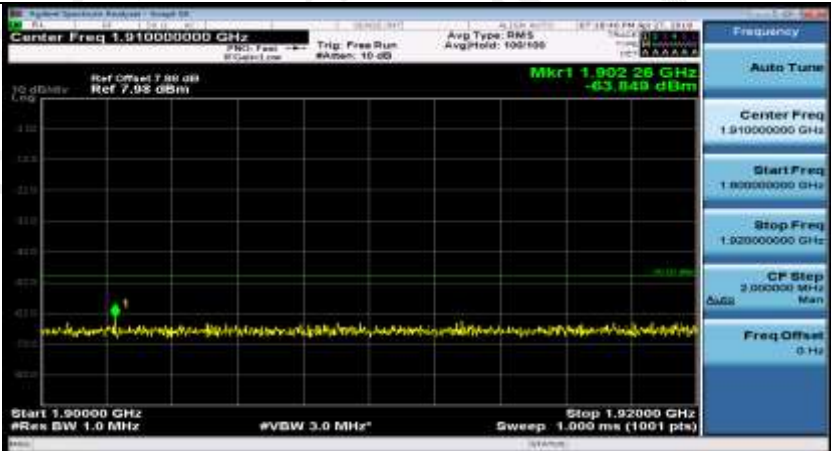

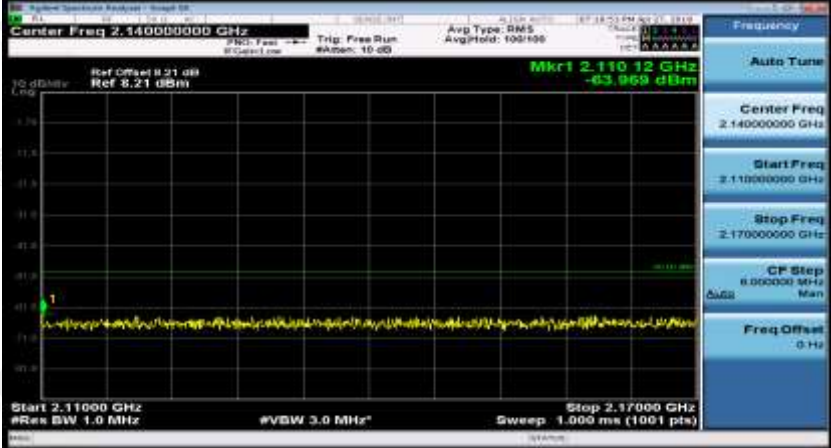
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

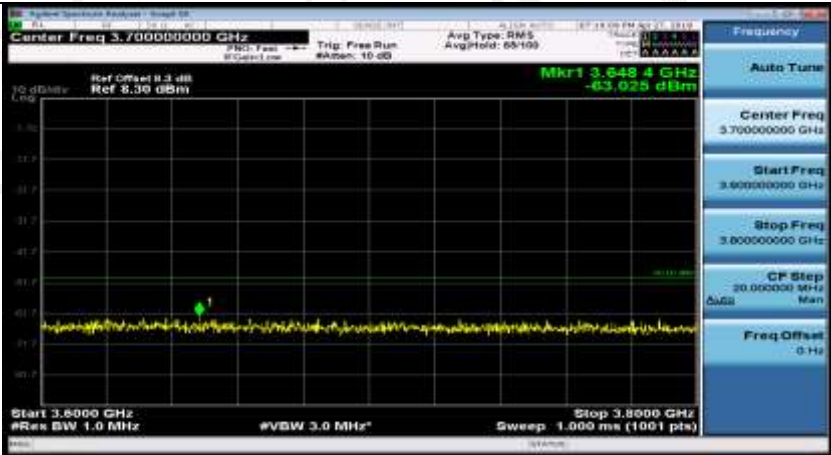
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Co-existence	
Co-existence	
Co-existence	

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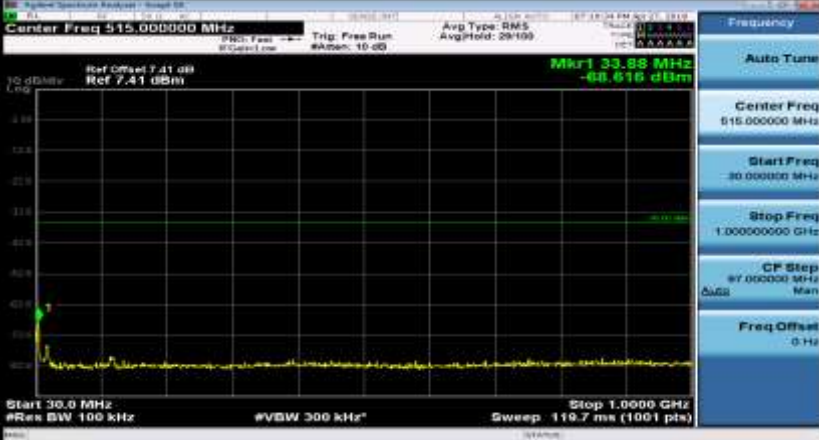
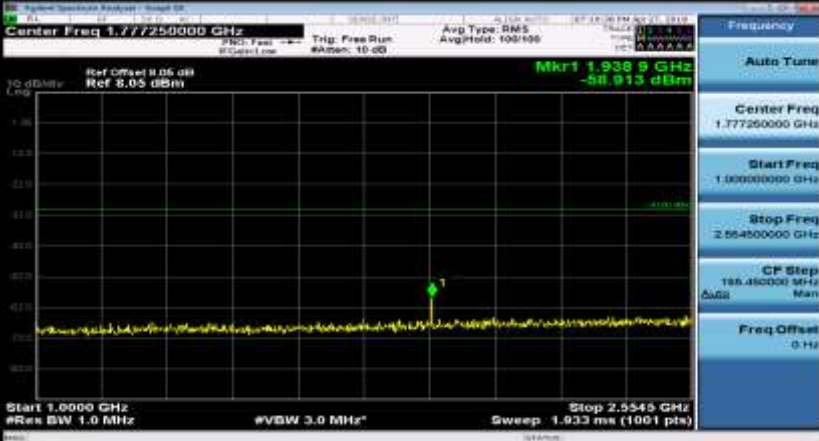
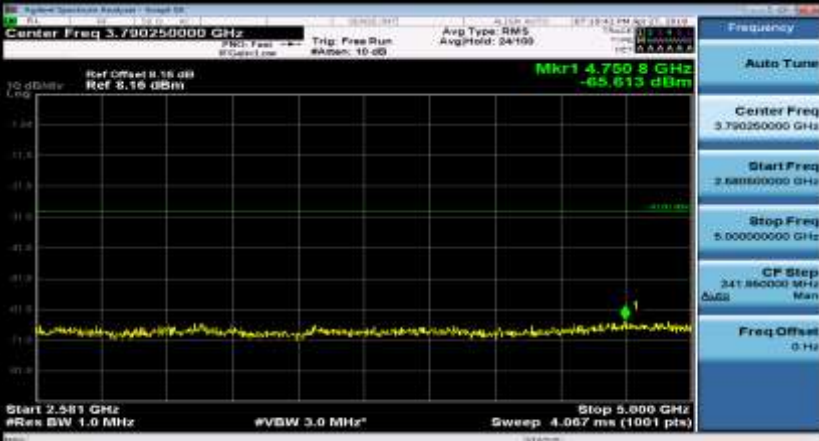
Co-existence	
Co-existence	
Co-existence	

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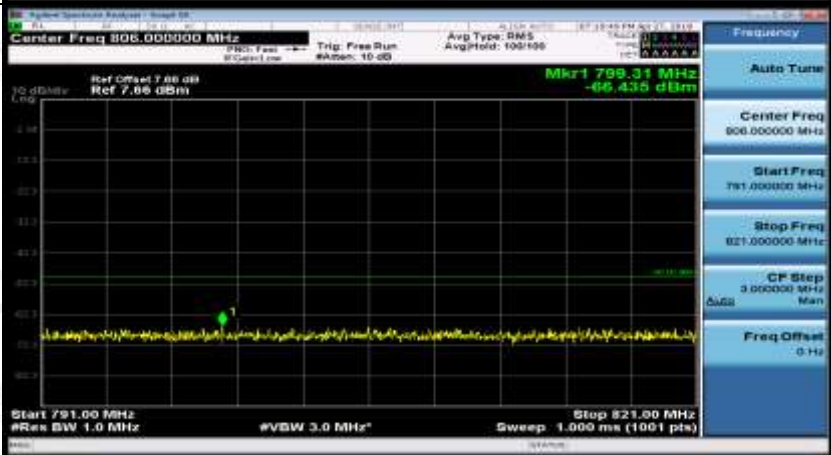
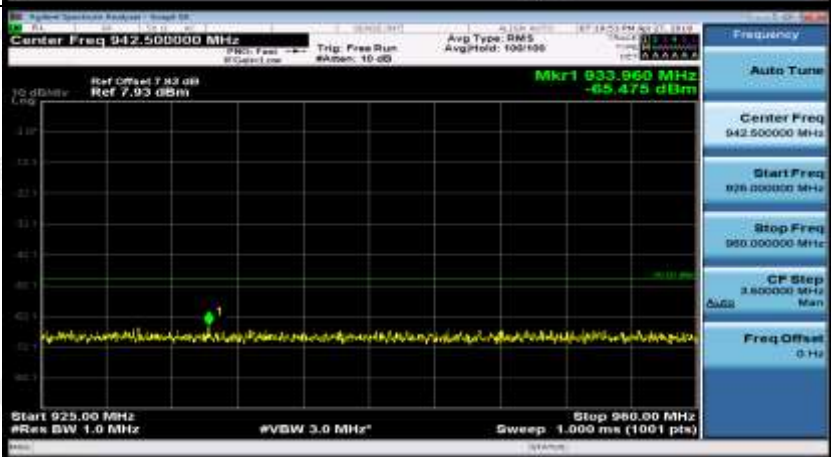
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

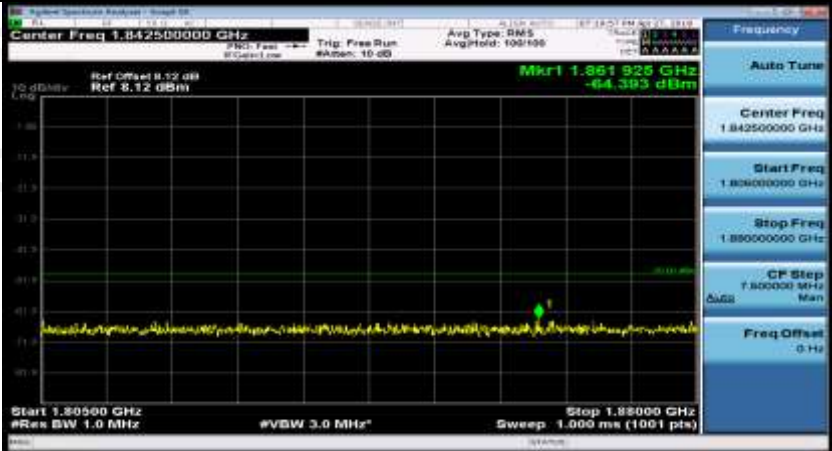
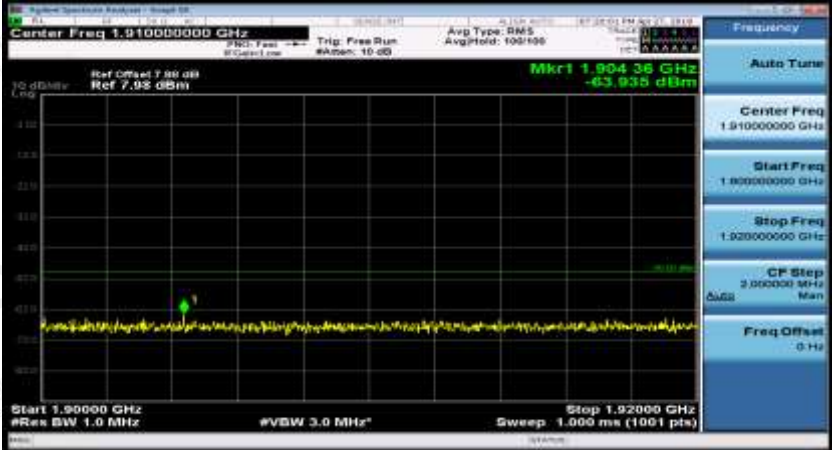
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General			
General			
General			


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General		
Co-existence		
Co-existence		

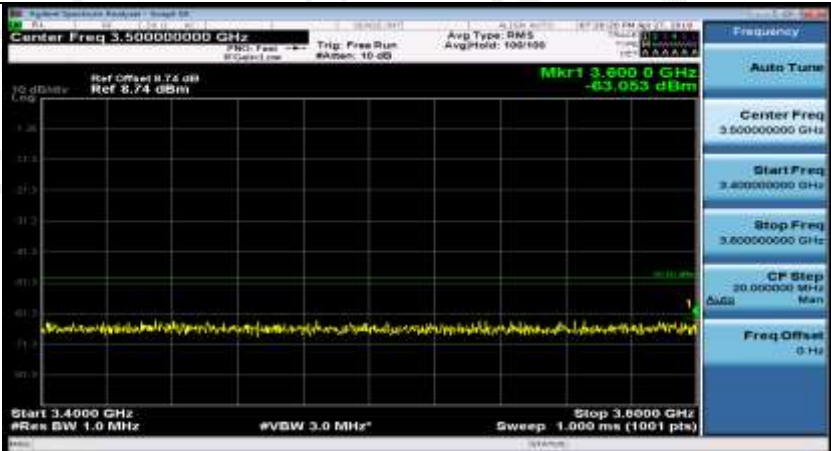
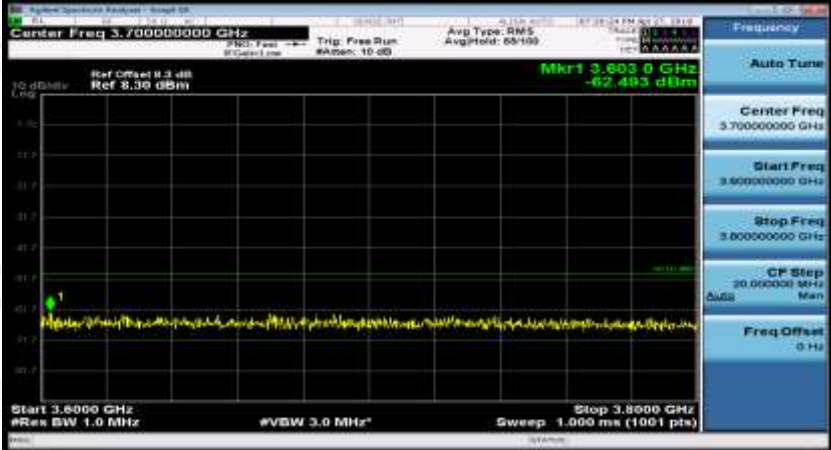
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	


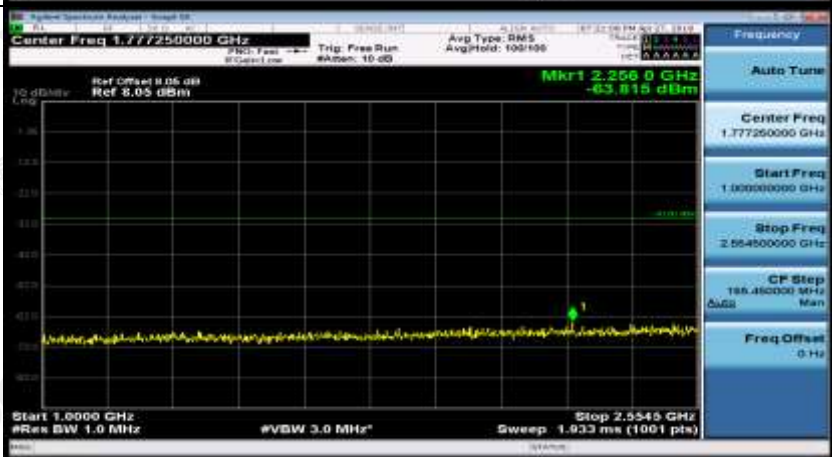
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Co-existence	
Co-existence	
Additional	NA


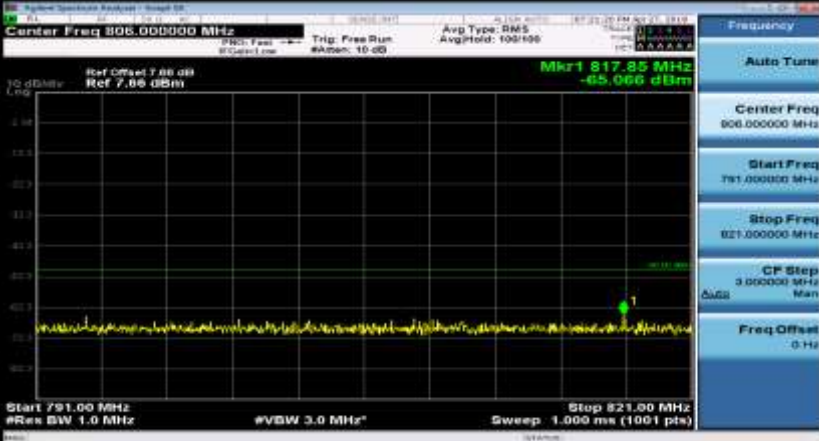
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0

General	
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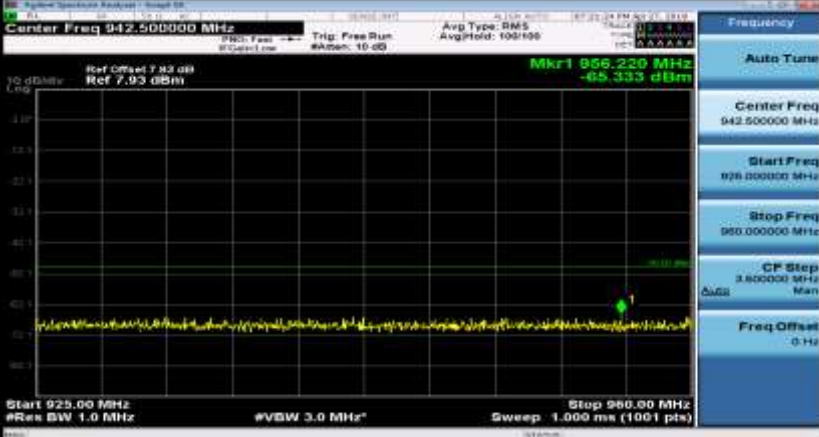
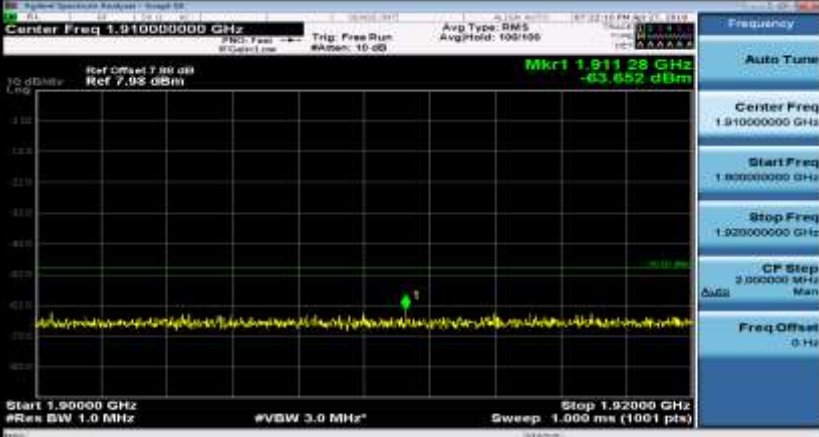
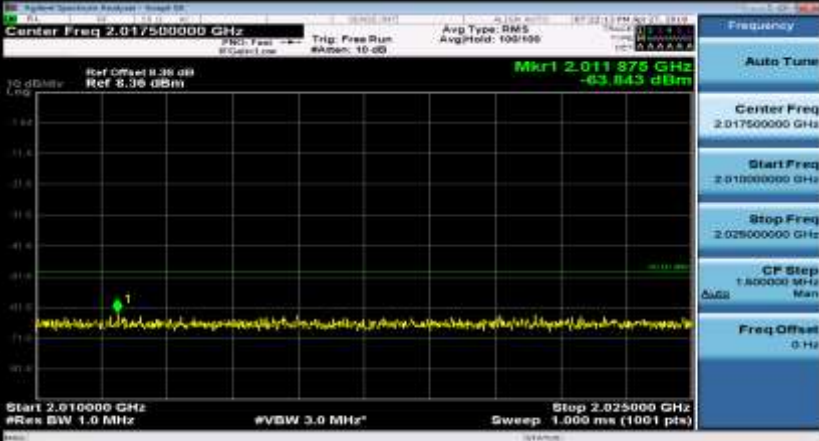
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General			
General			
General			

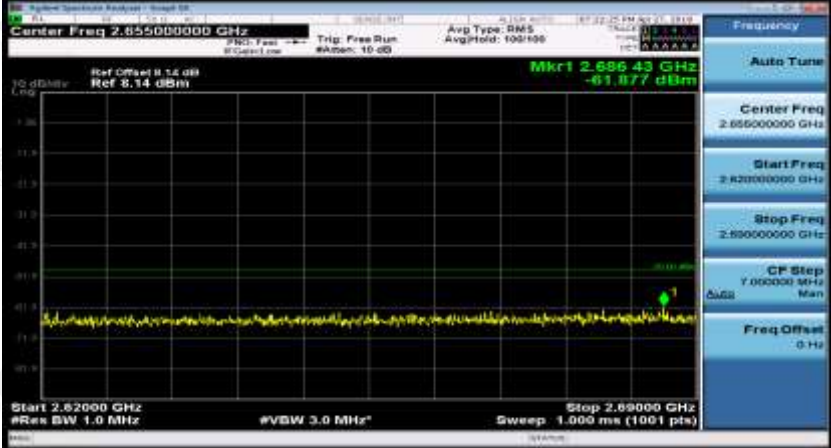
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General			
General			
Co-existence			

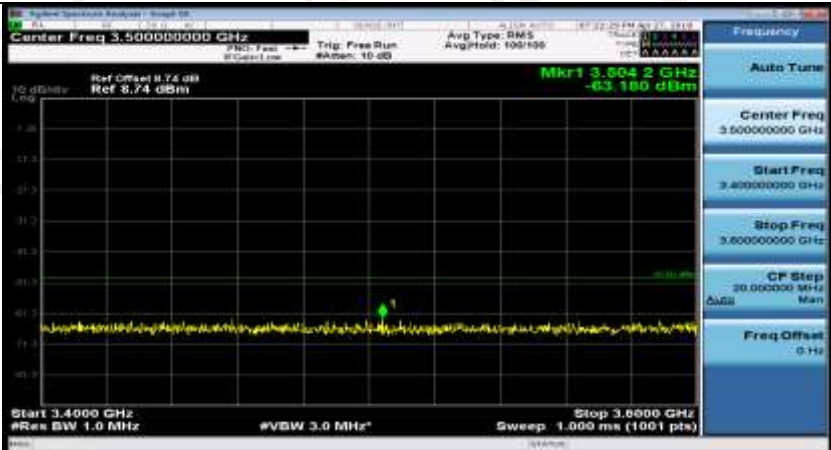
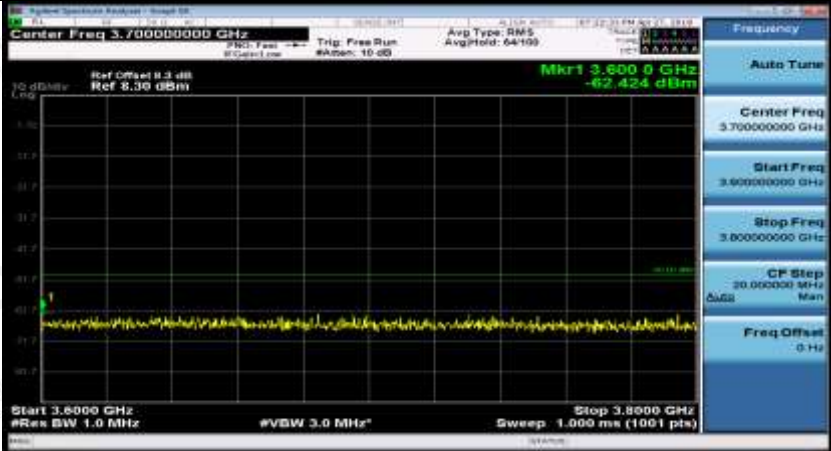
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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

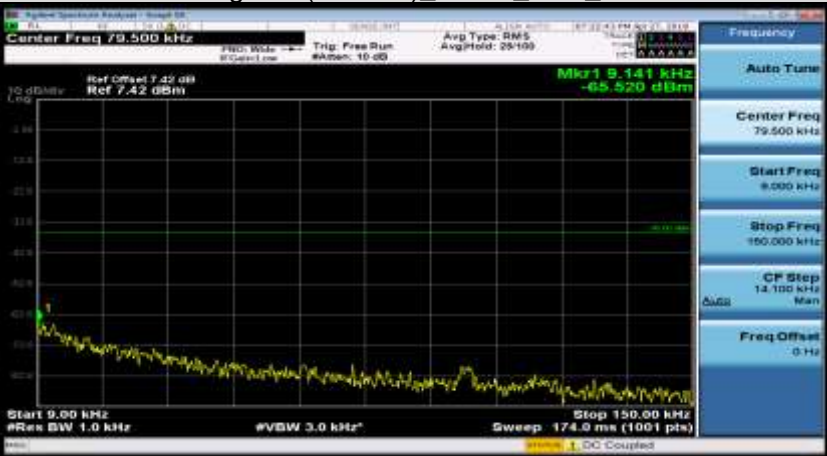
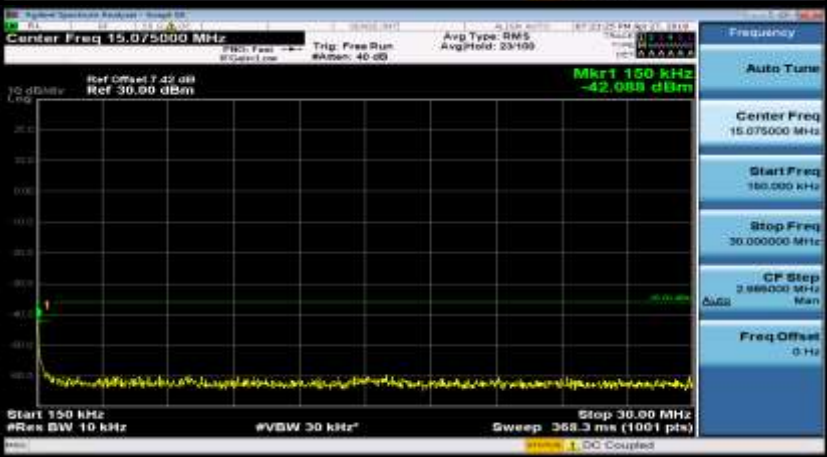

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Co-existence	
Co-existence	
Additional	NA


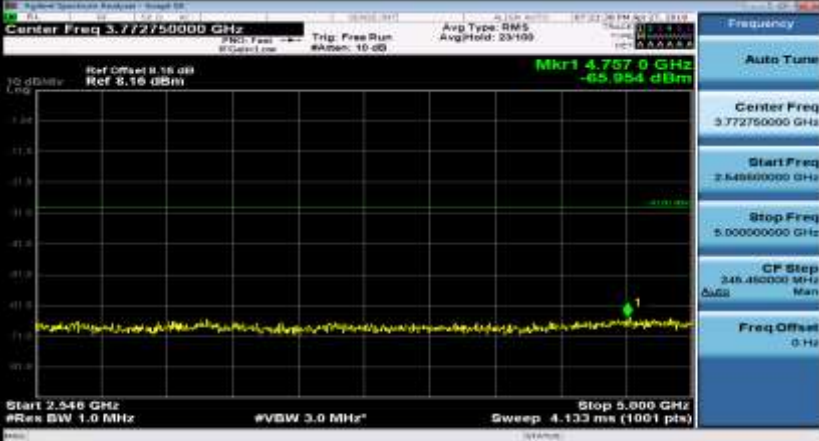

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Channel Bandwidth= (20 MHz)

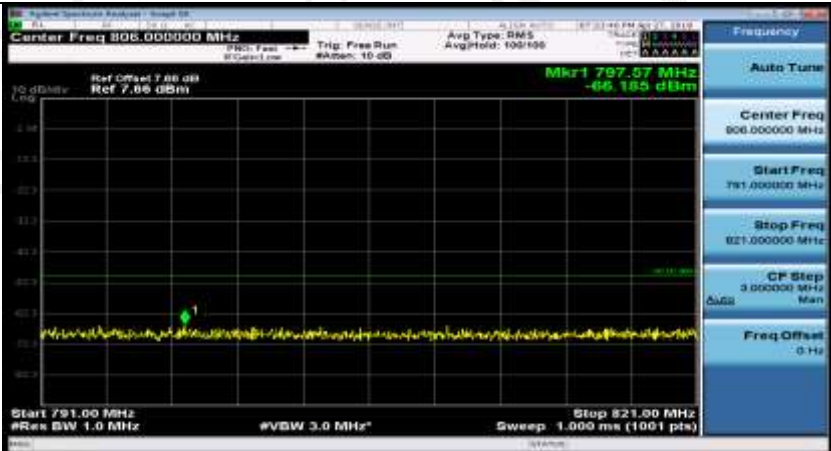
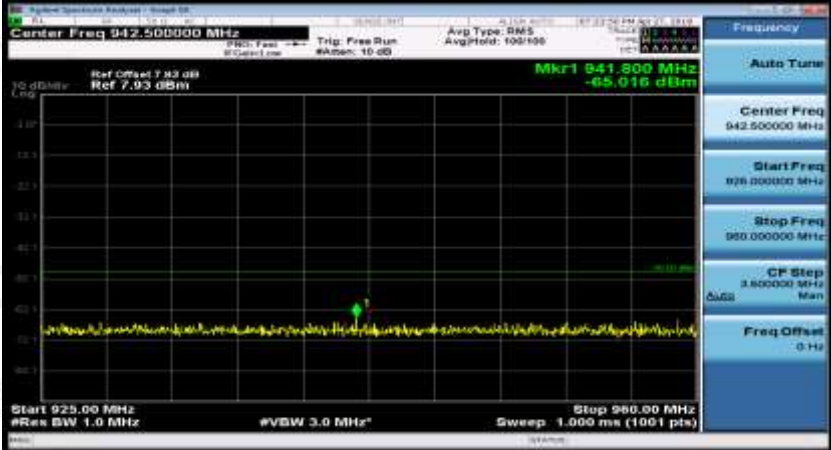
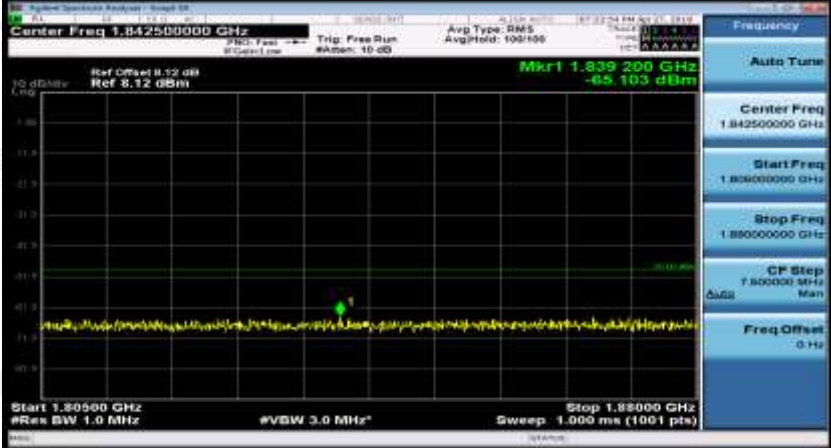
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0

General		
General		
General		

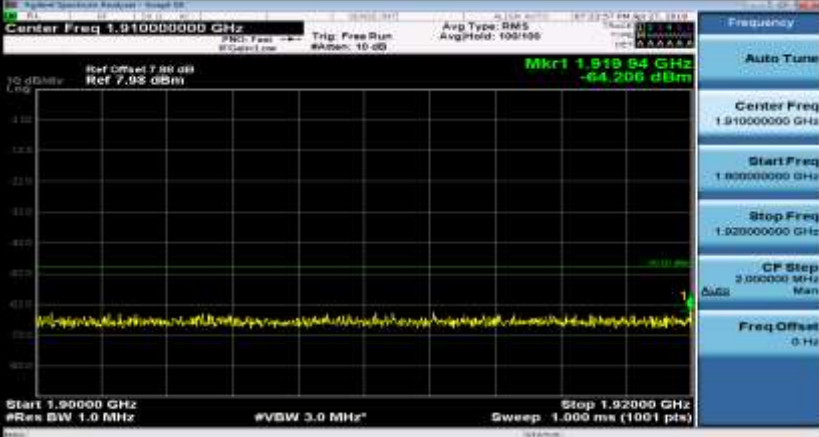

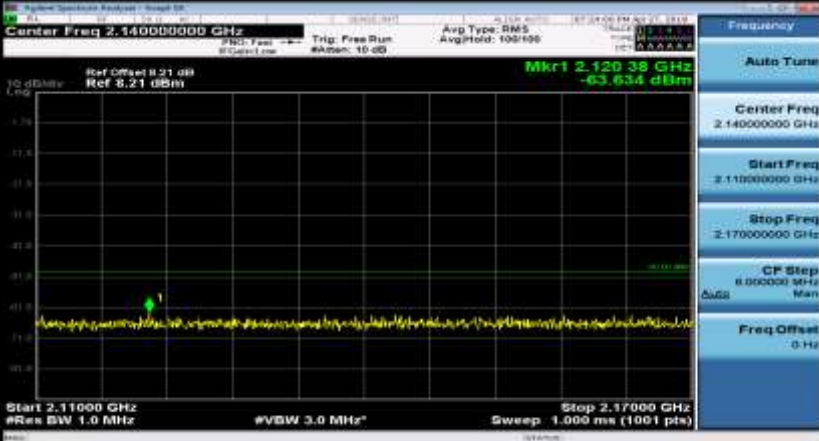
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

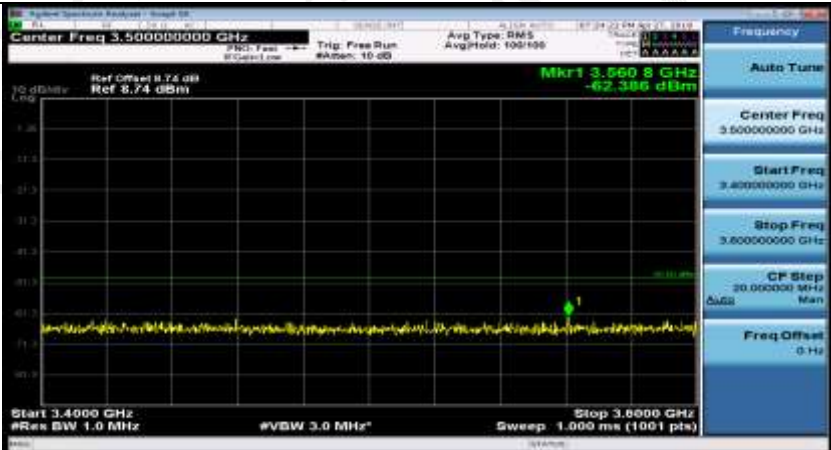

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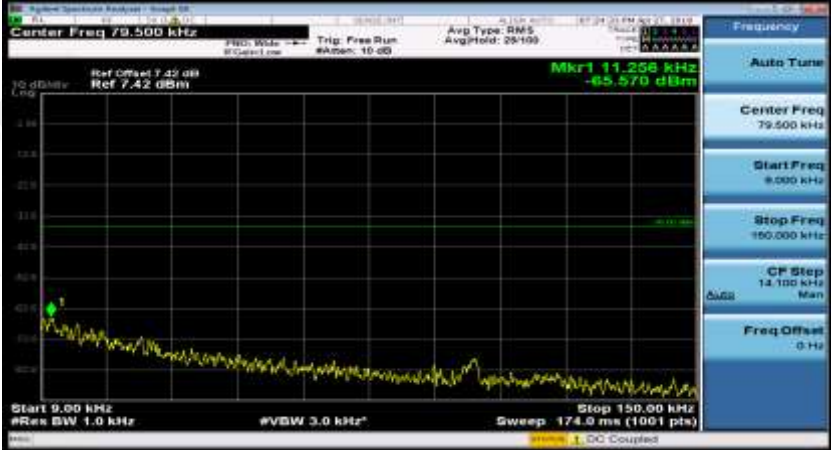
Co-existence			
Co-existence			
Co-existence			

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Co-existence		
Co-existence		
Co-existence		

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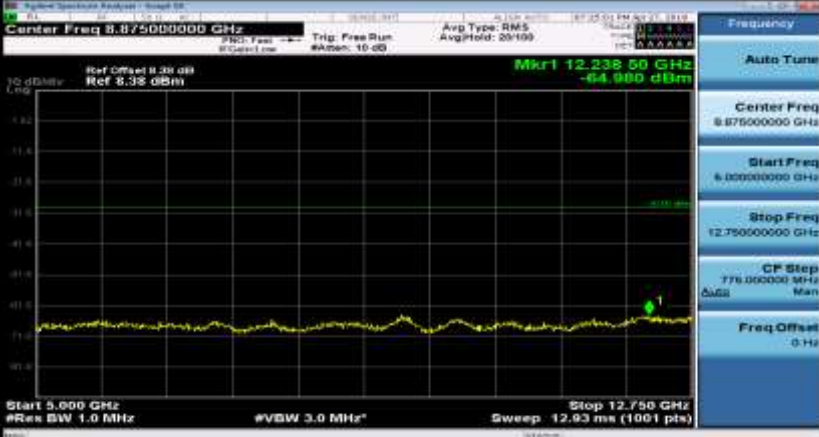

Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	

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General			
General			
General			

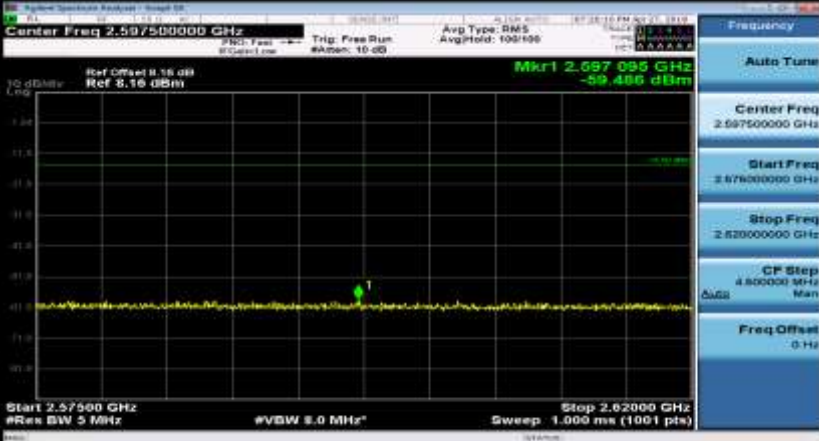
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General			
General			
Co-existence			

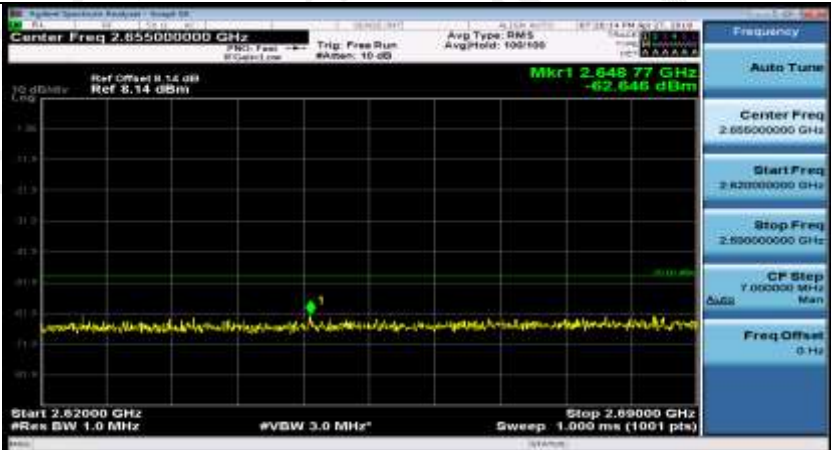
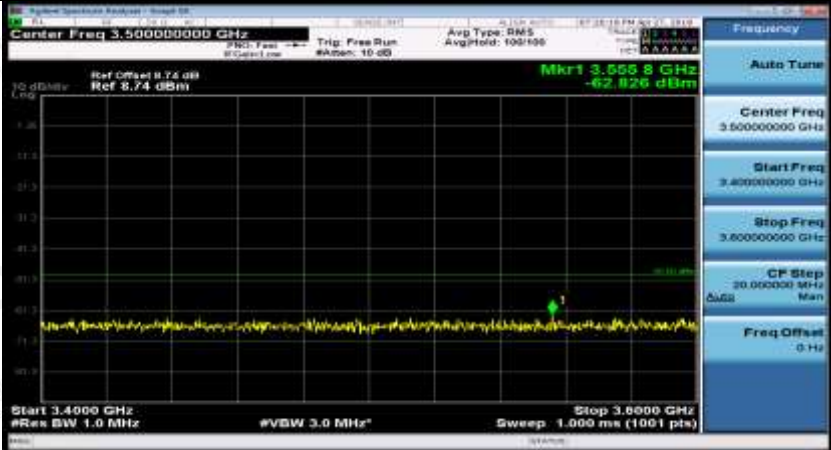
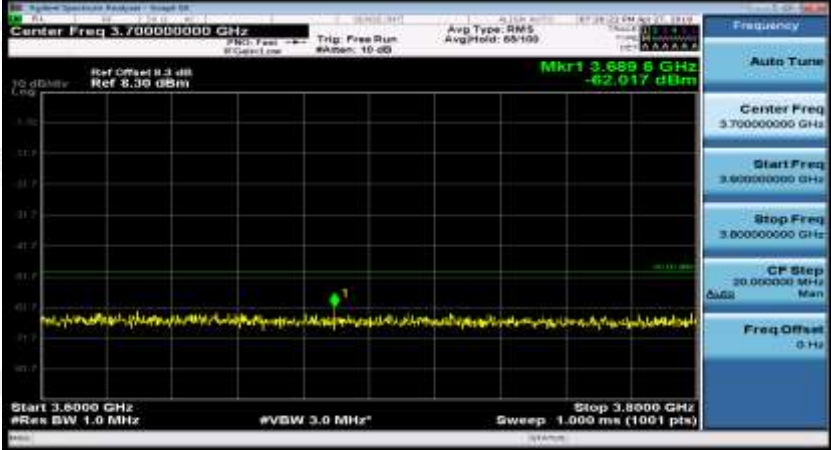
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

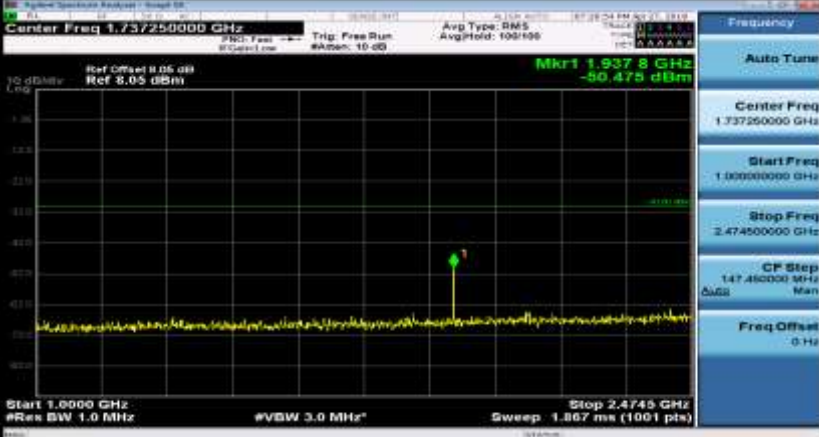
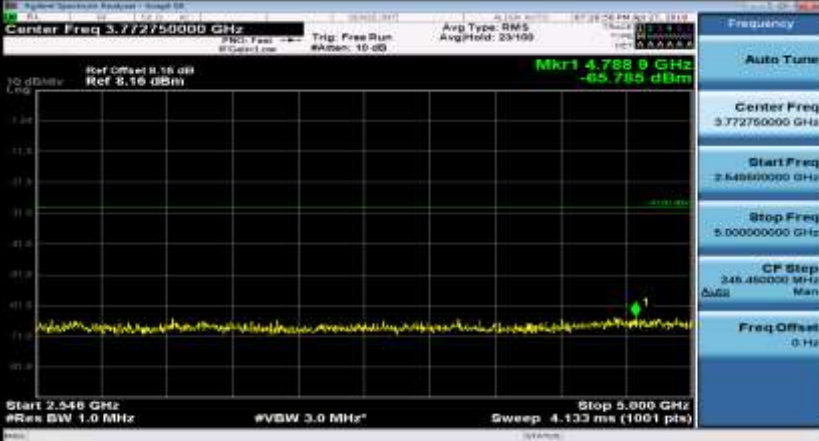
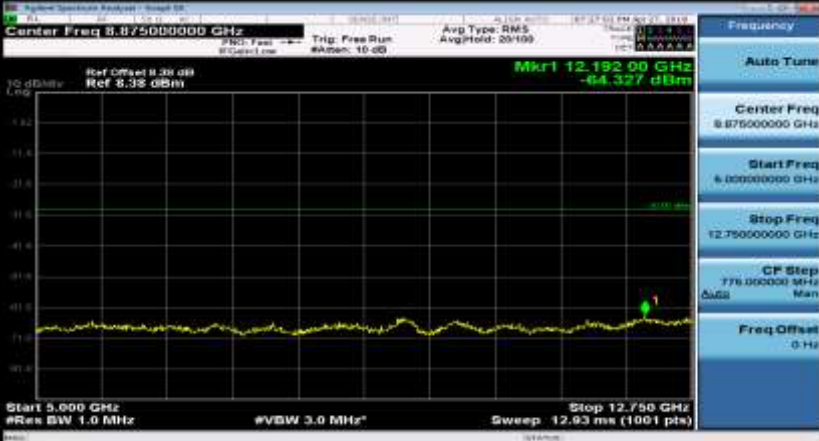
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Co-existence	
Co-existence	
Co-existence	
Additional	NA

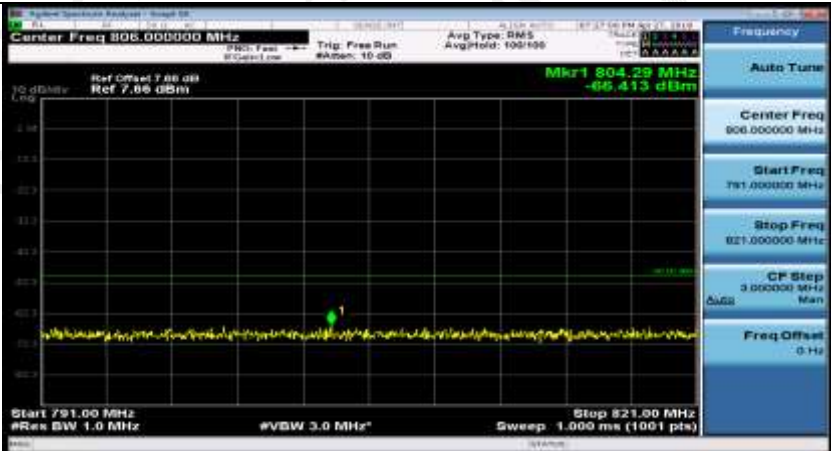
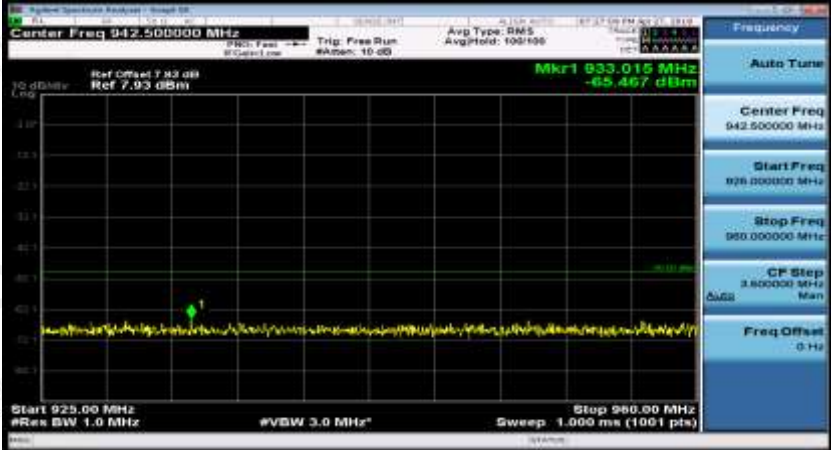
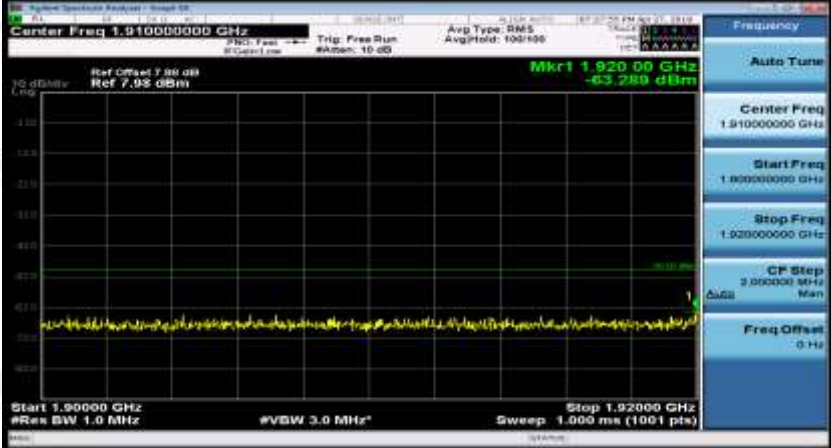
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Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullIRB#0	
General	
General	
General	

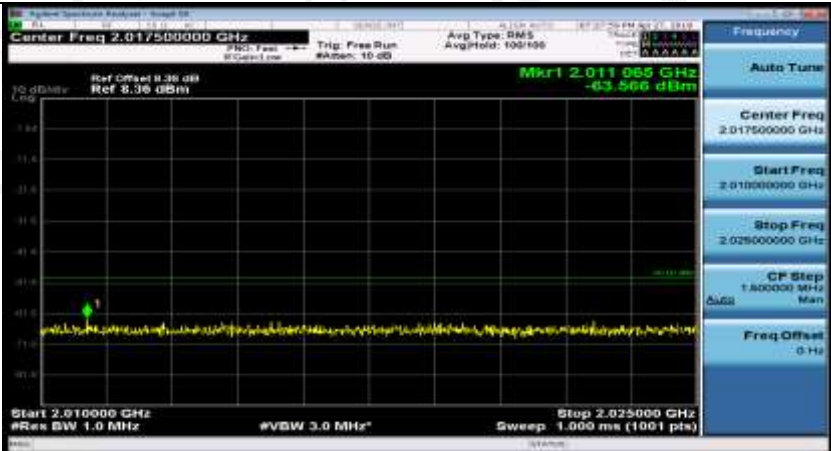
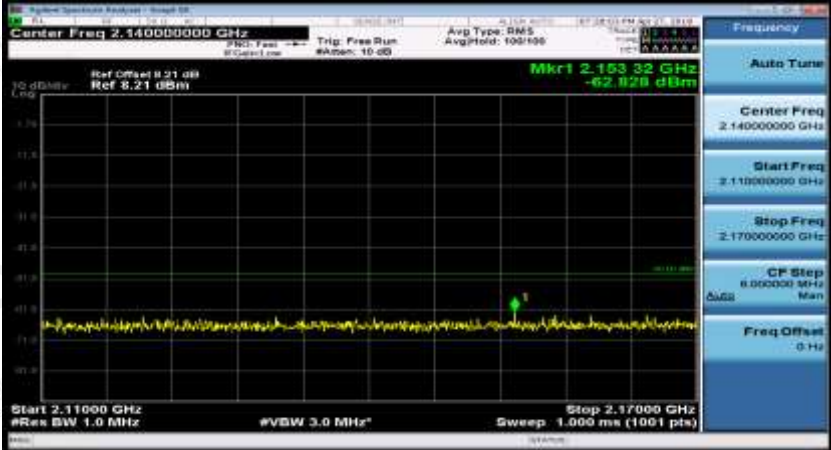
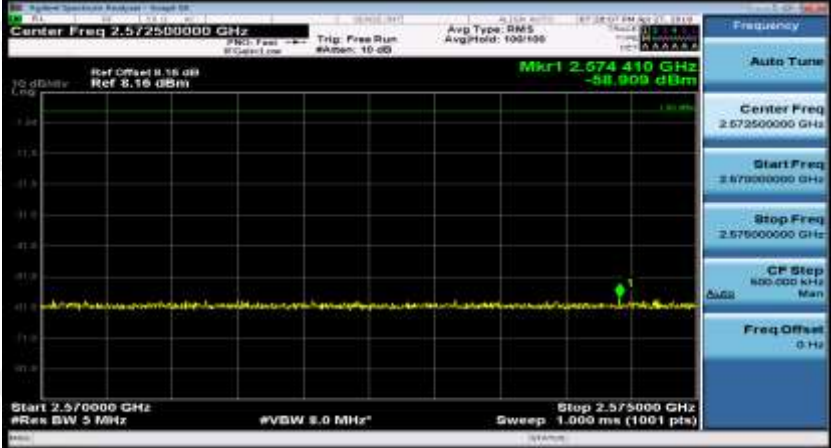
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General			
General			
General			

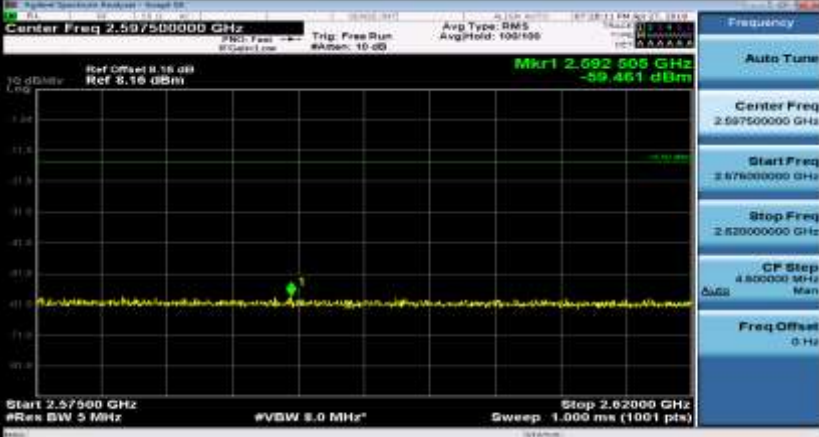
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Co-existence	
Co-existence	
Co-existence	

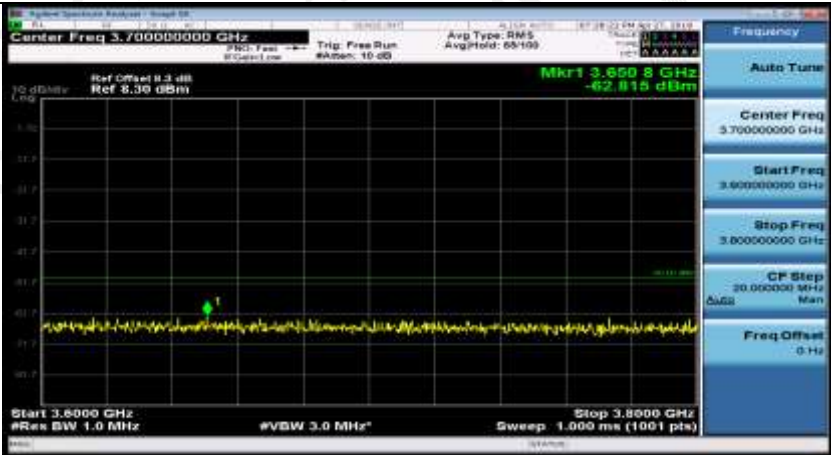
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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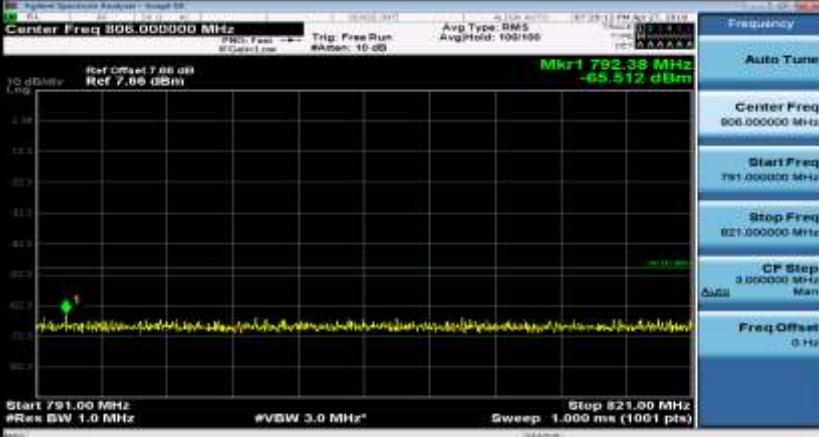
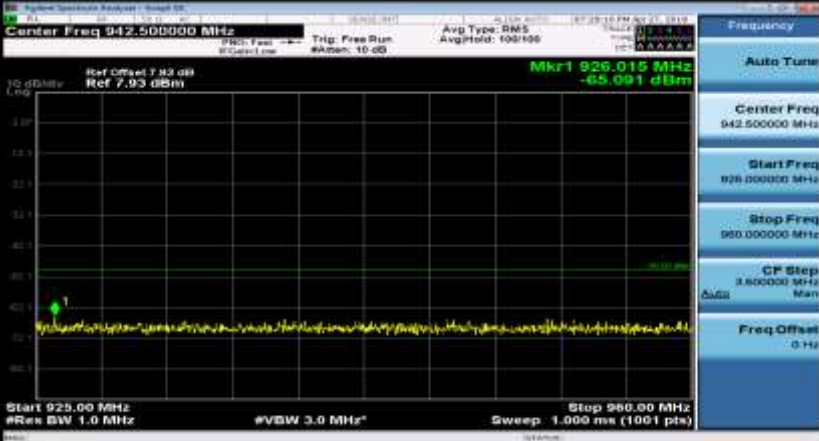
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0	
General	
General	

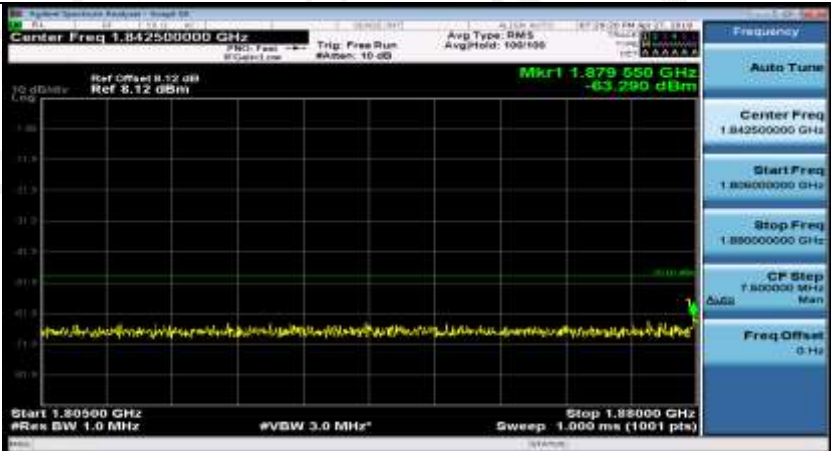
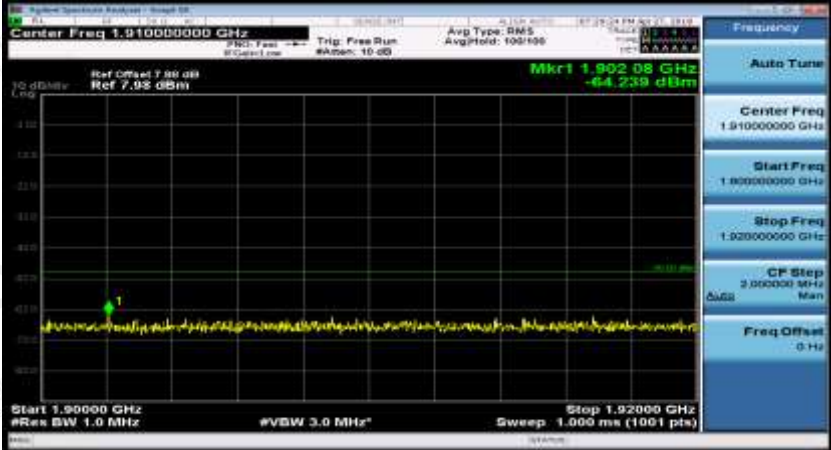
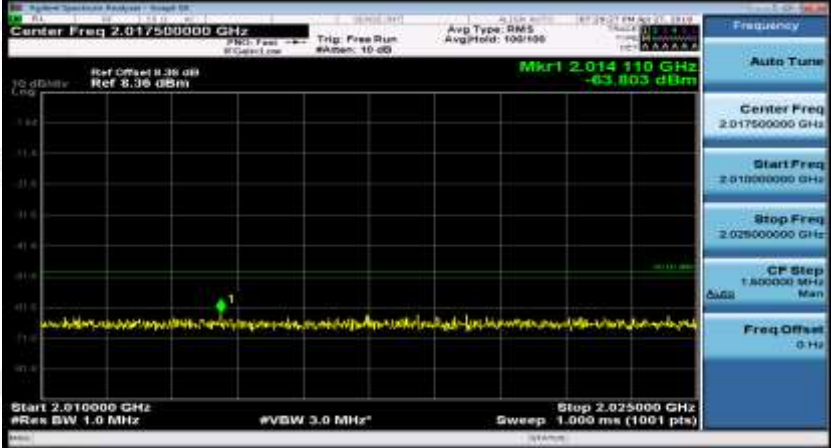
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General			
General			
General			

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General			
Co-existence			
Co-existence			

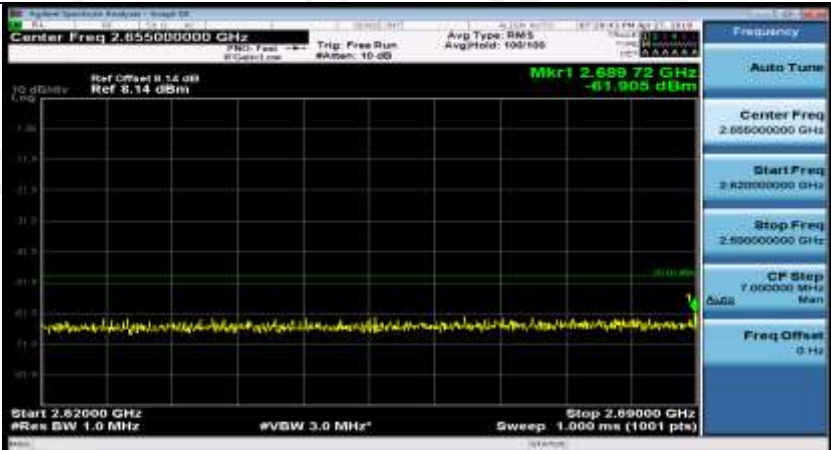
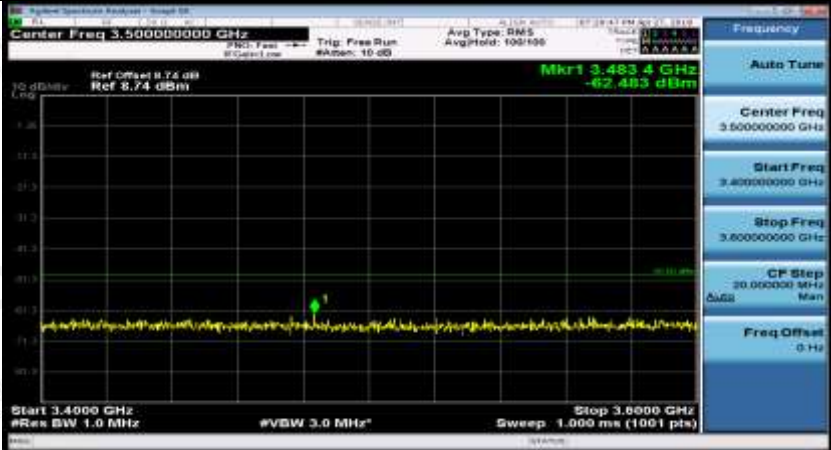
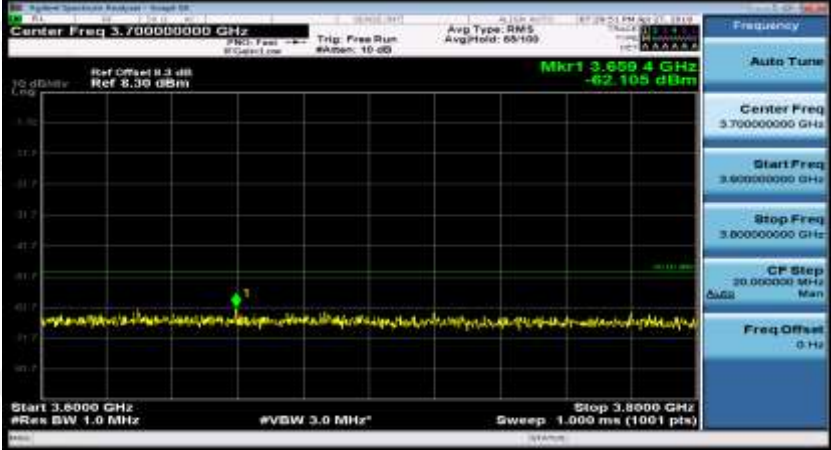
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Co-existence	
Co-existence	
Co-existence	

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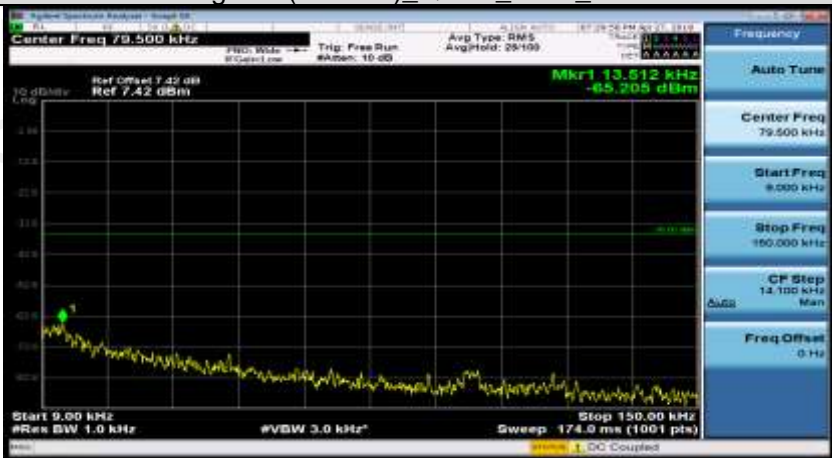
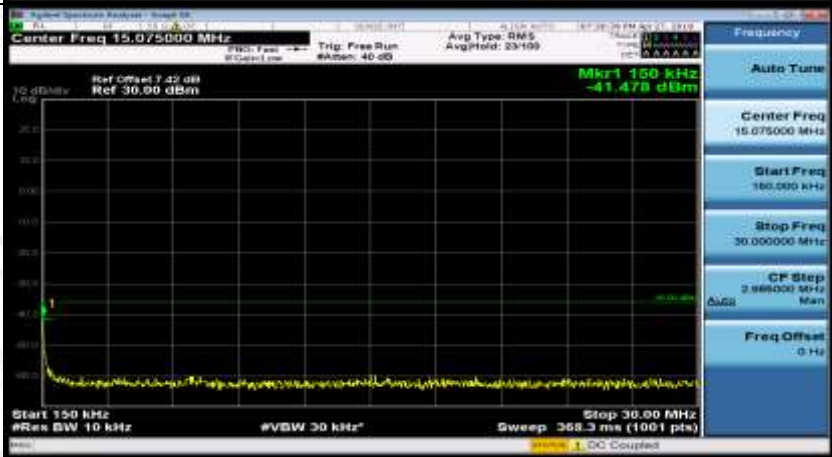
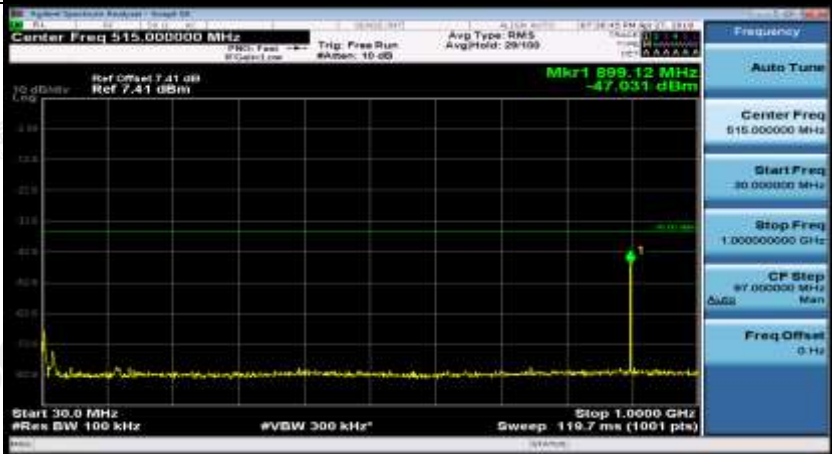
Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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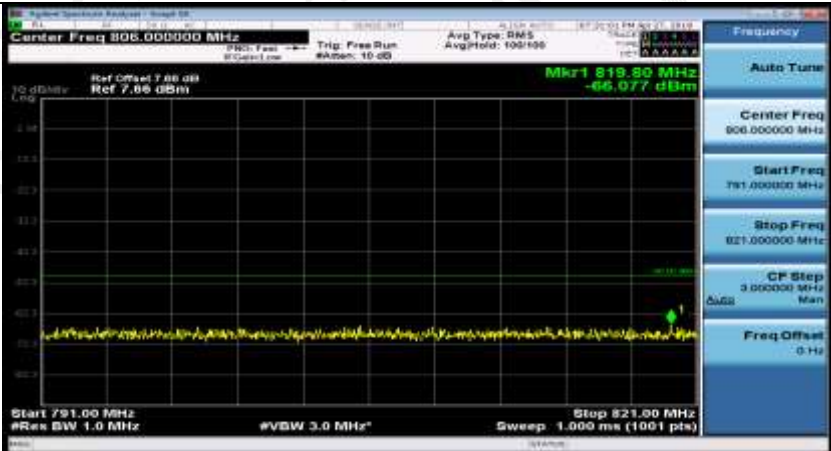
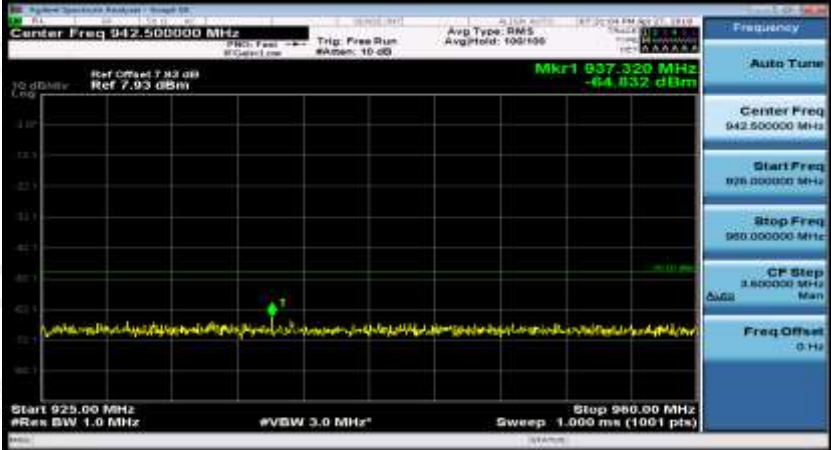
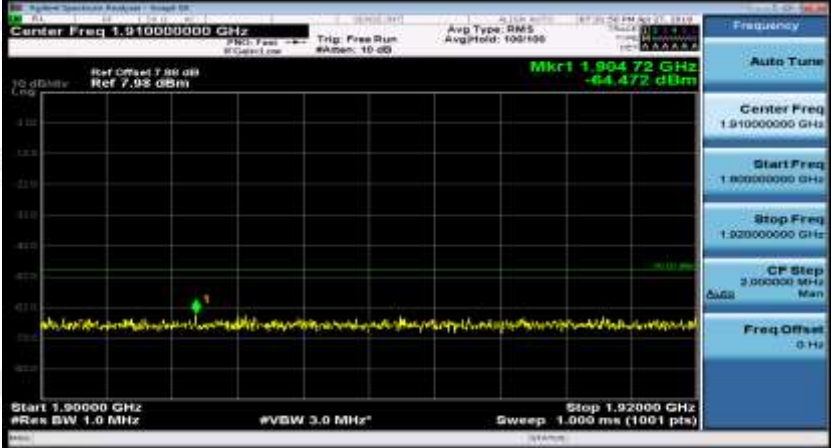
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max

General		
General		
General		

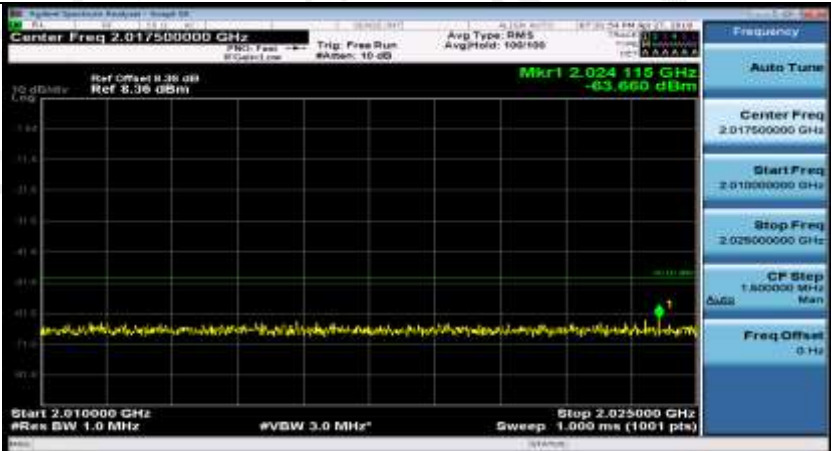
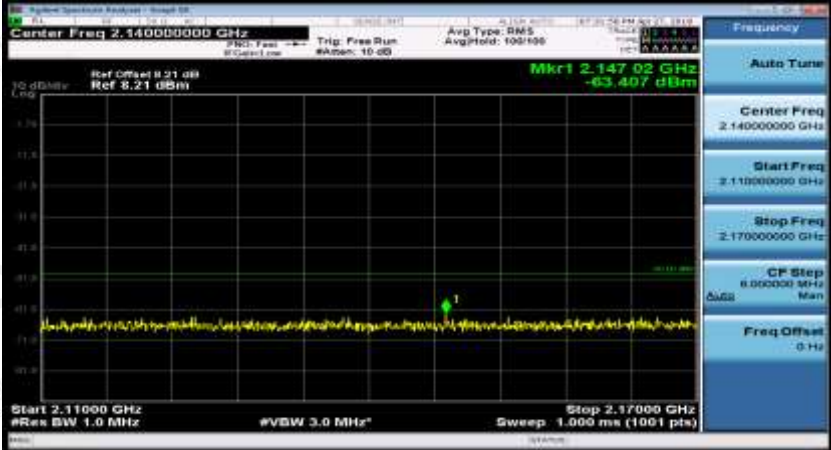
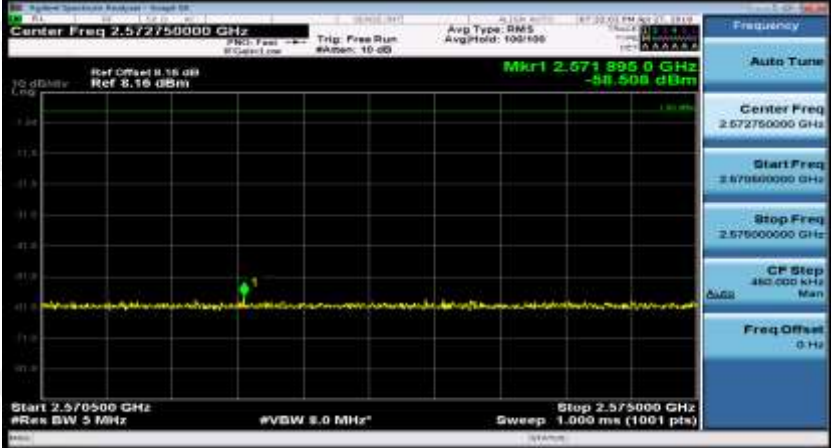
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

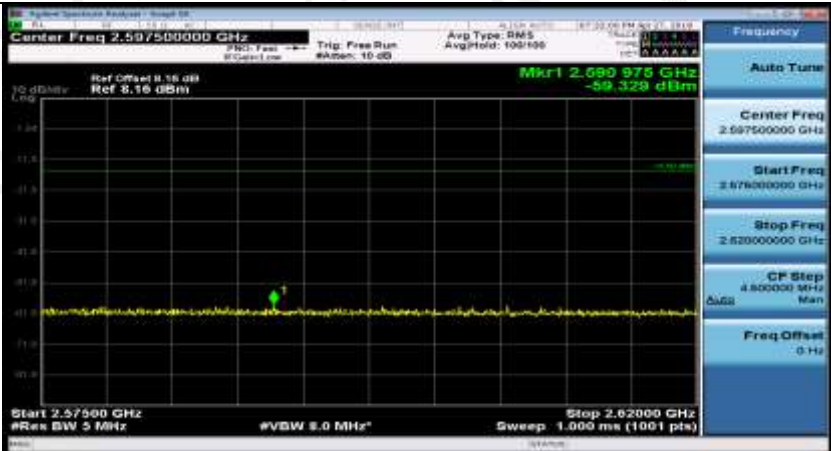
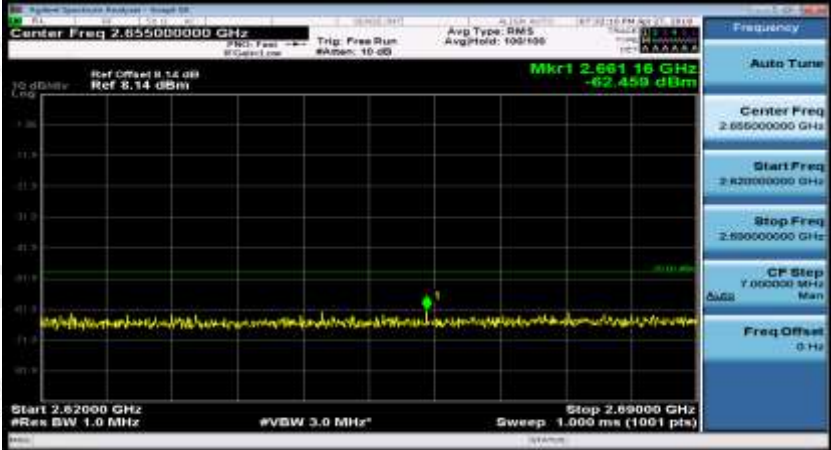
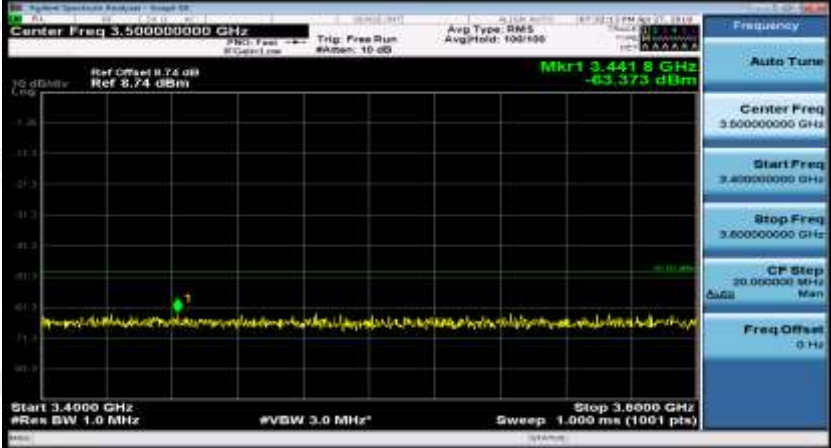
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

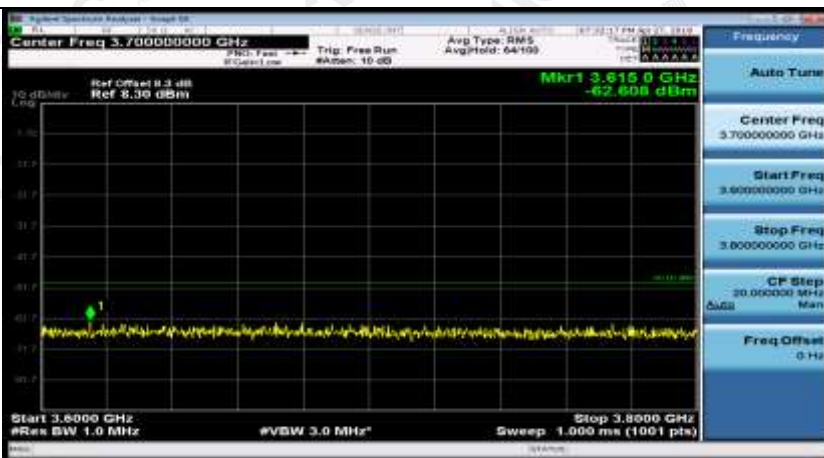
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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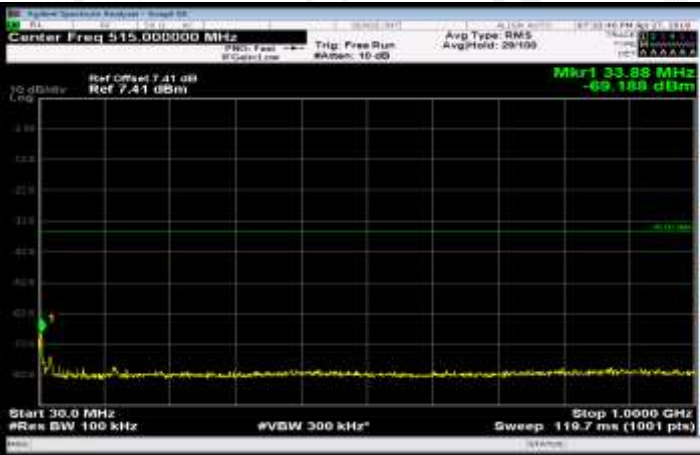
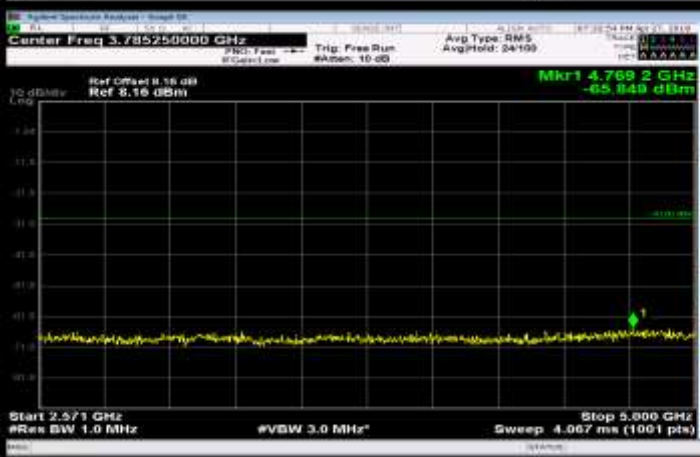
Co-existence		
Co-existence		
Co-existence		

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

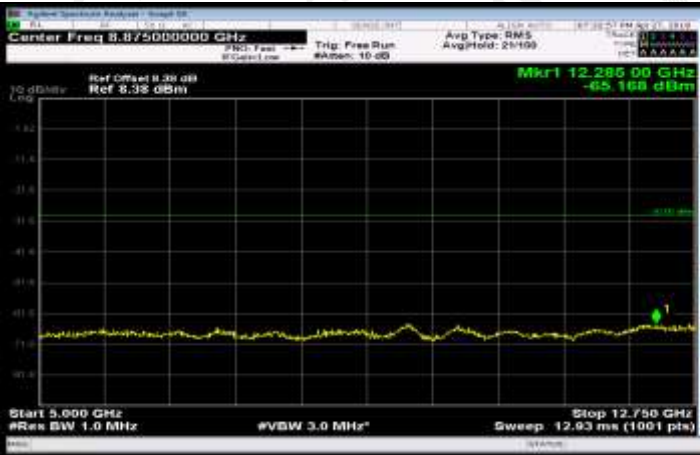
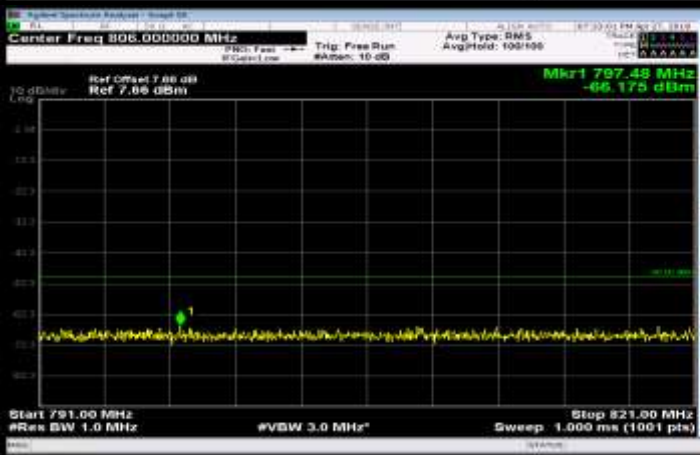
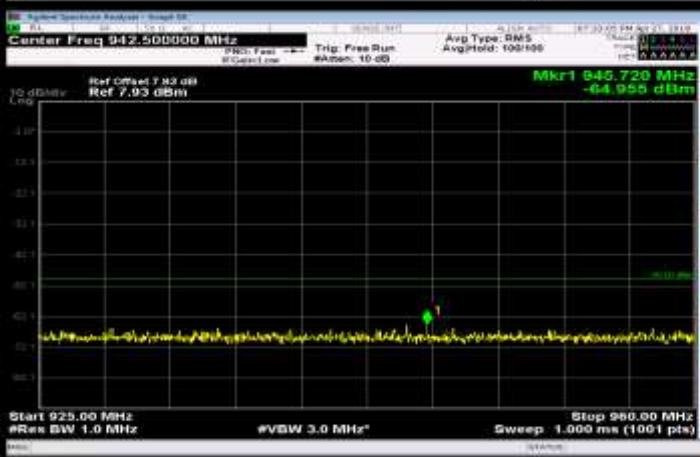
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullIRB#0	
General	
General	

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General		
General		
General		

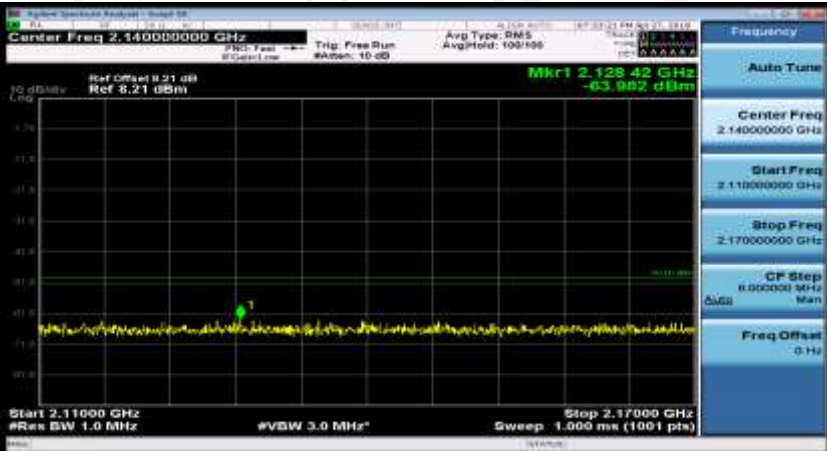
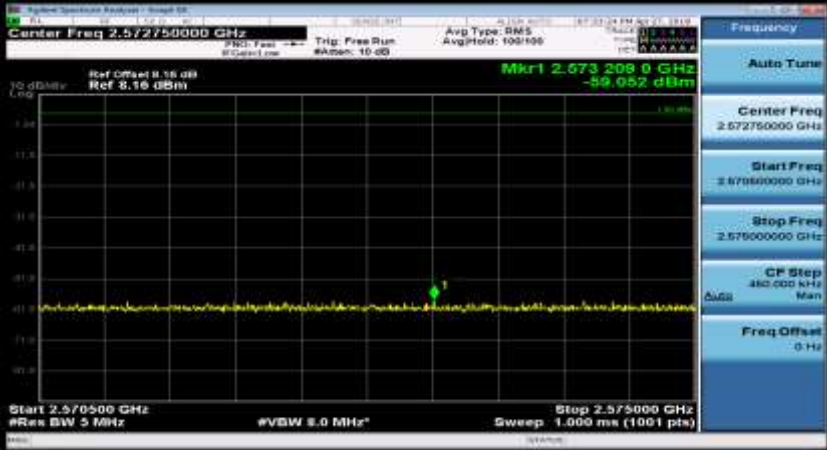
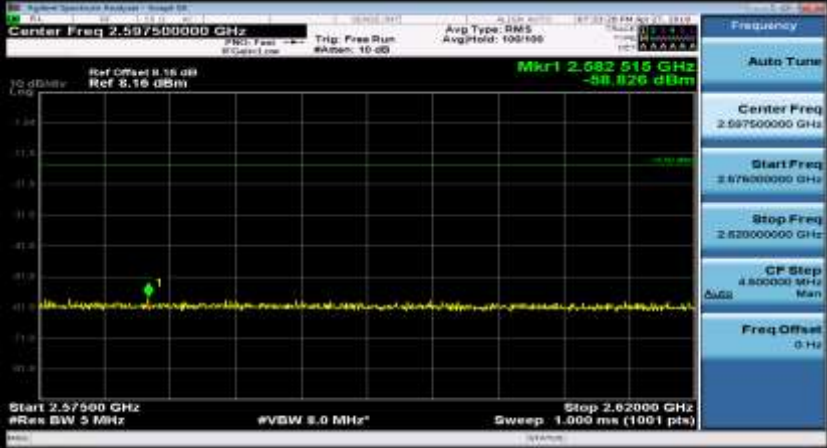
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 8.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 778.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 926.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

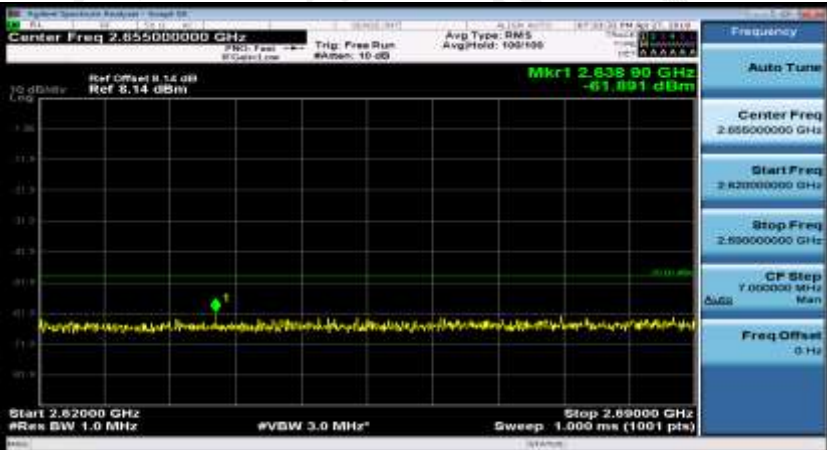
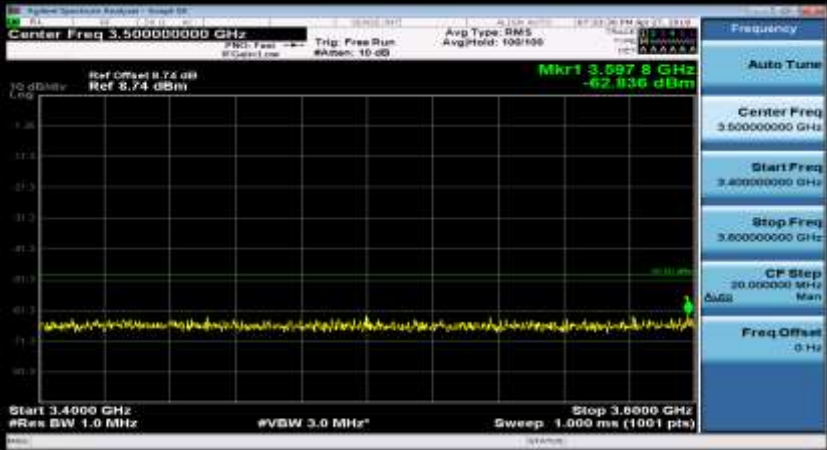
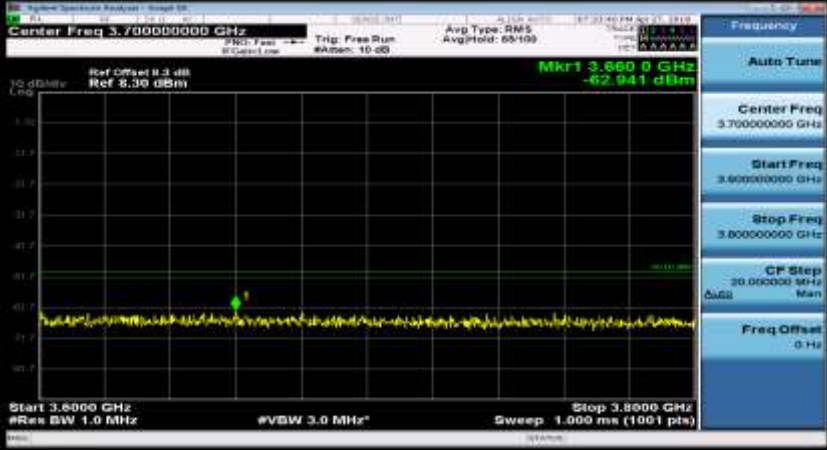
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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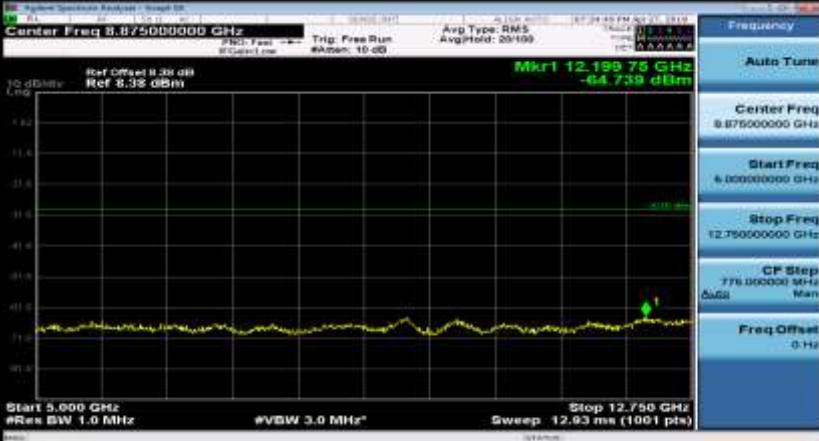
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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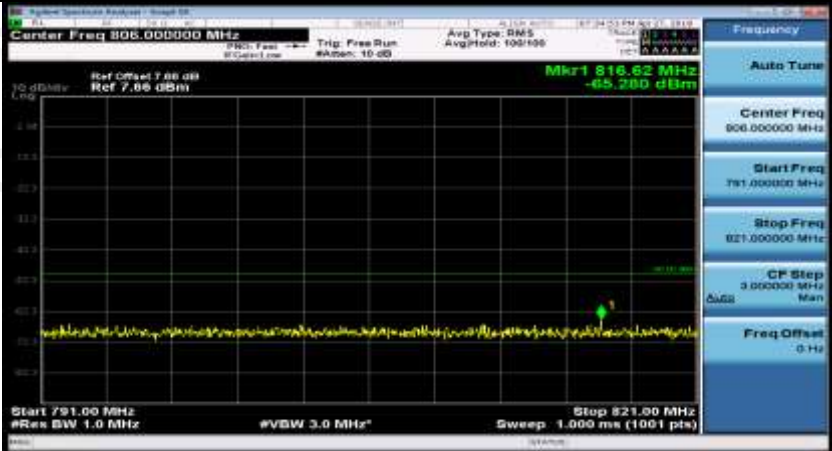
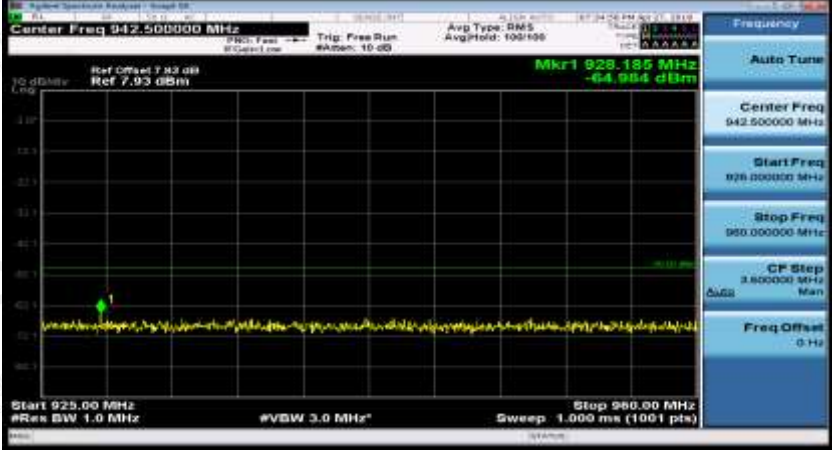
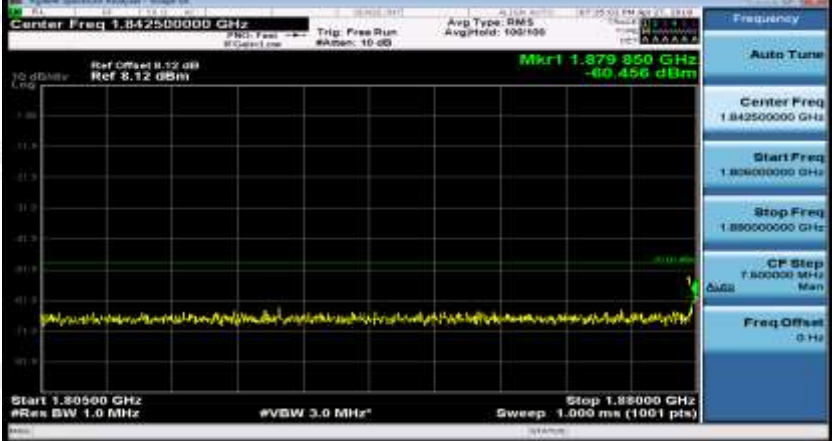
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

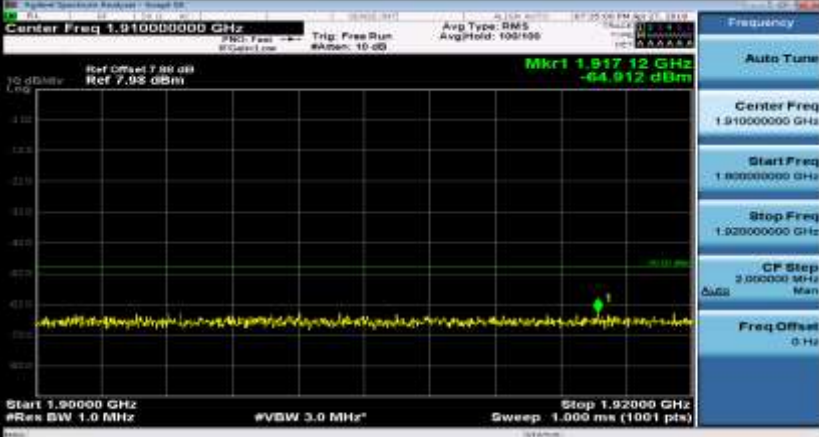
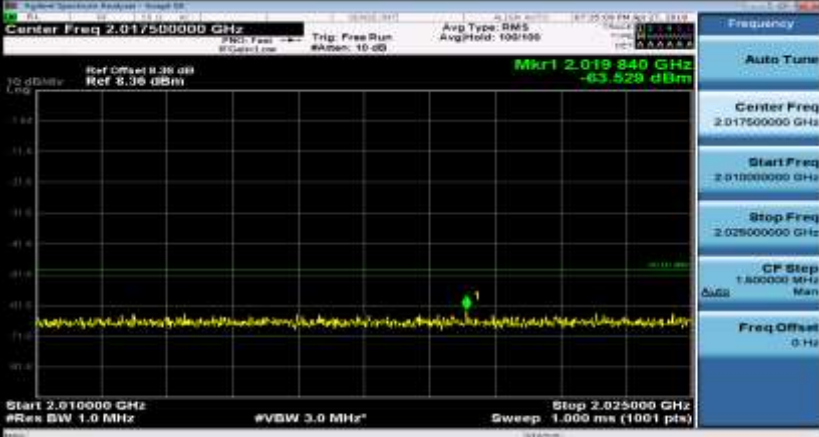
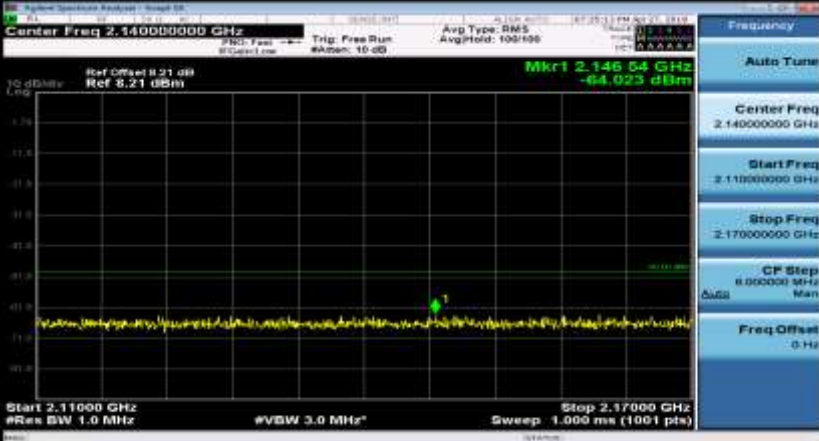
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			


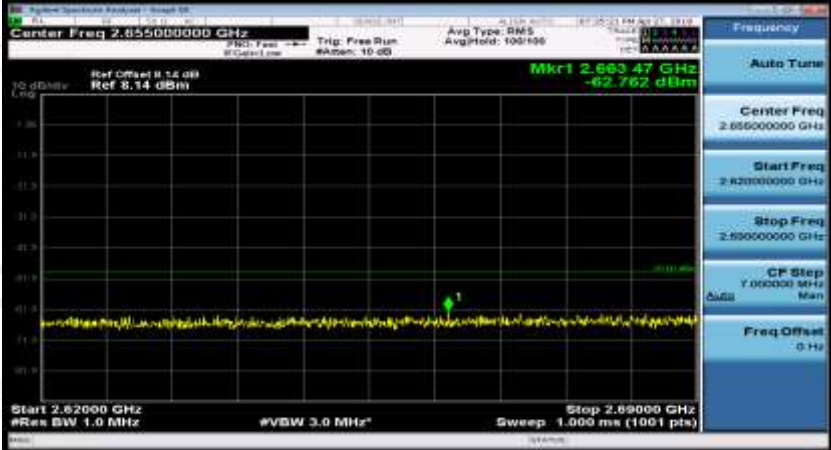
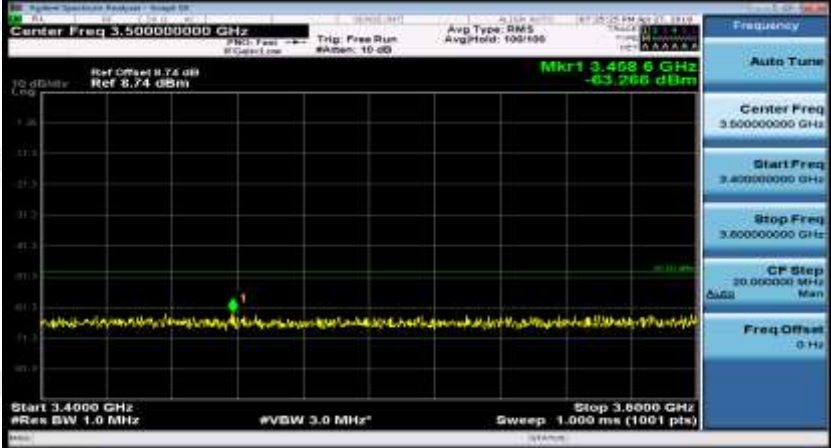
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

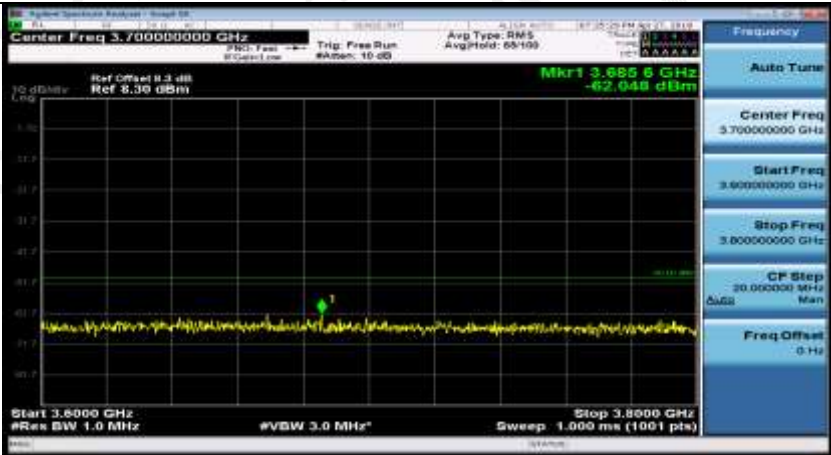
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence			
Co-existence			
Co-existence			

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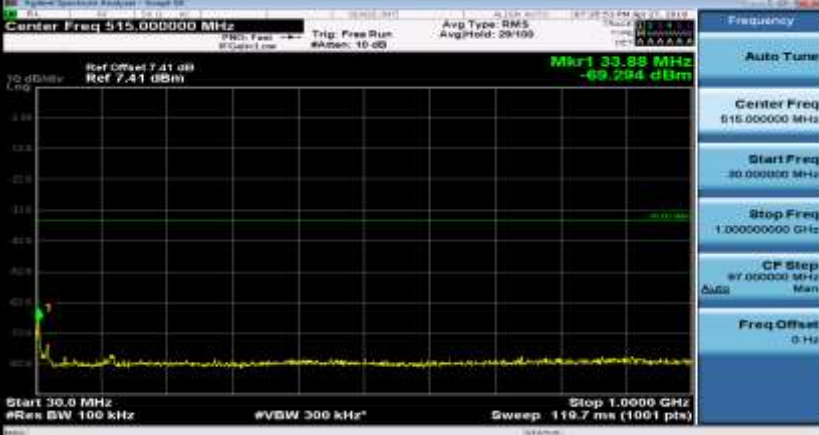
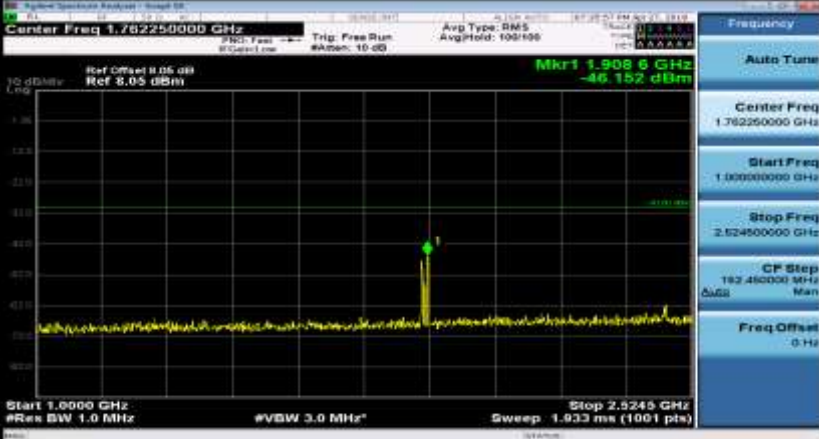

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	
General	

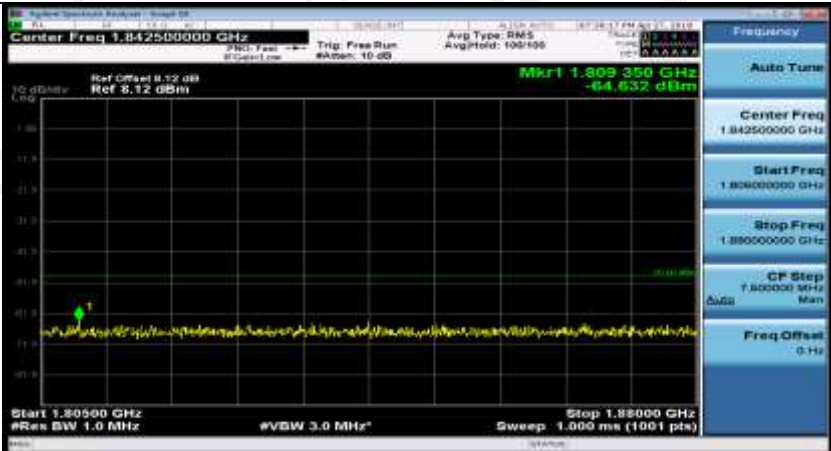
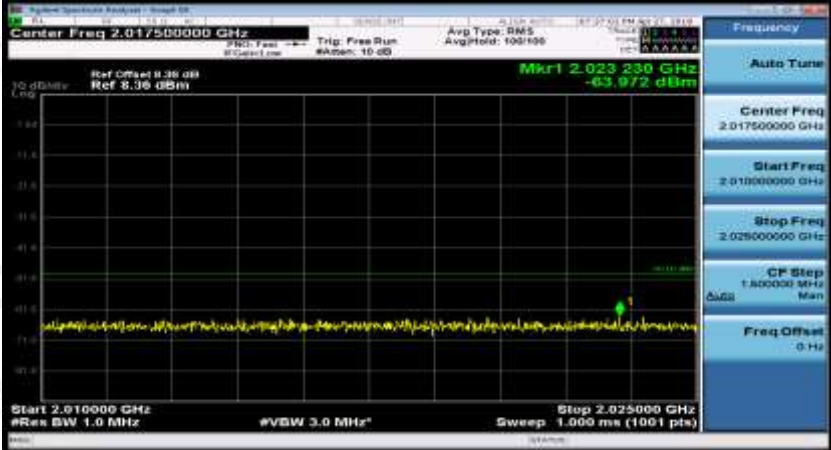
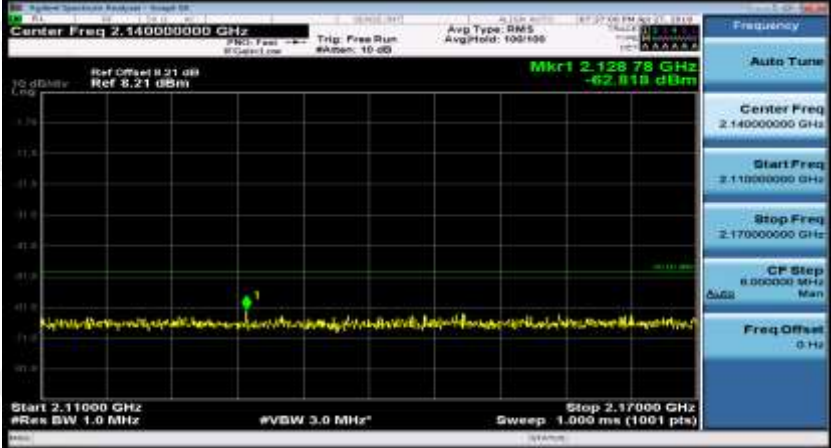
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General			
General			
General			


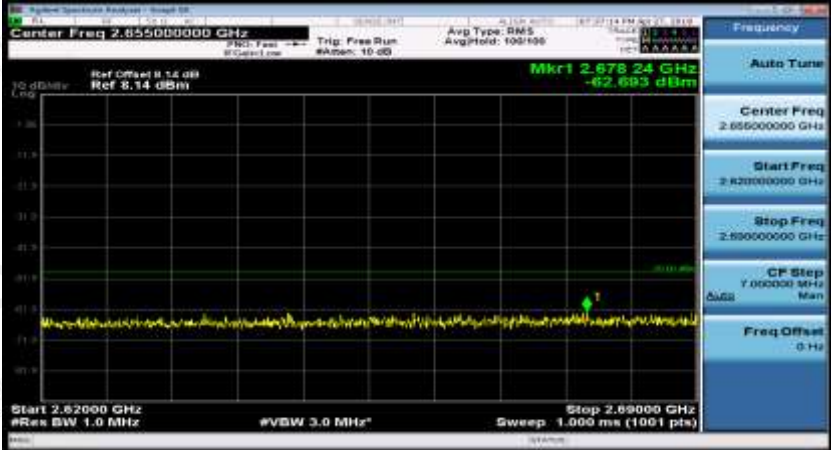
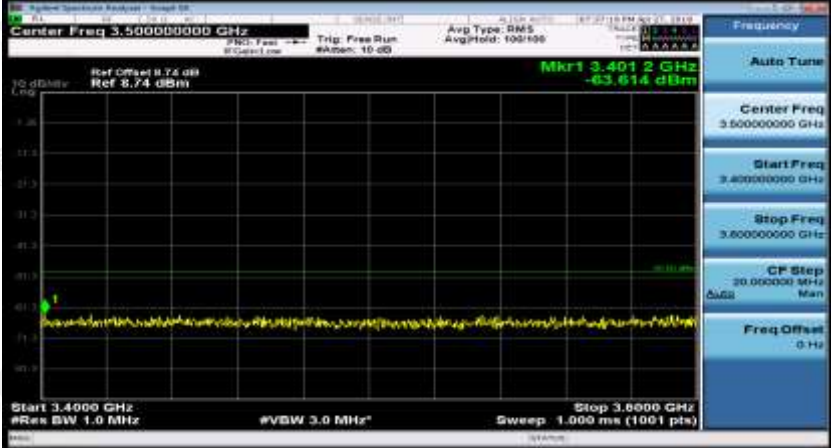
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General			
Co-existence			
Co-existence			

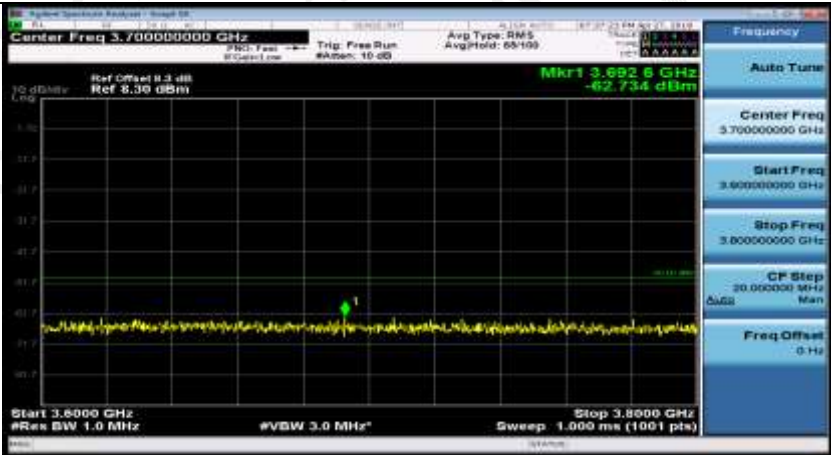
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Co-existence	
Co-existence	
Co-existence	

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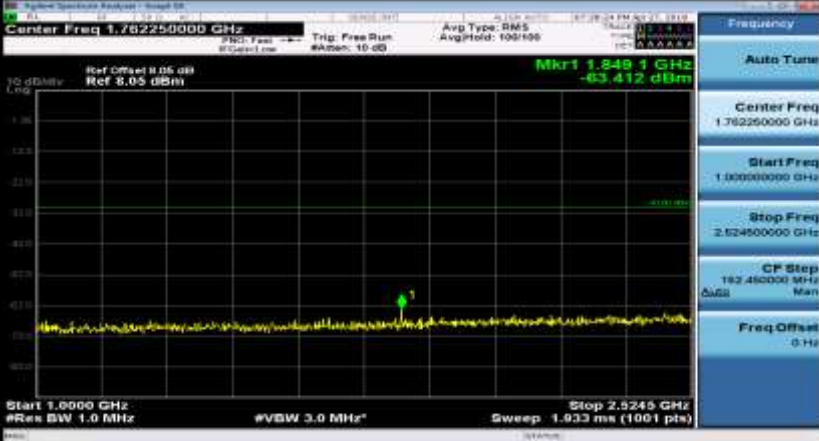
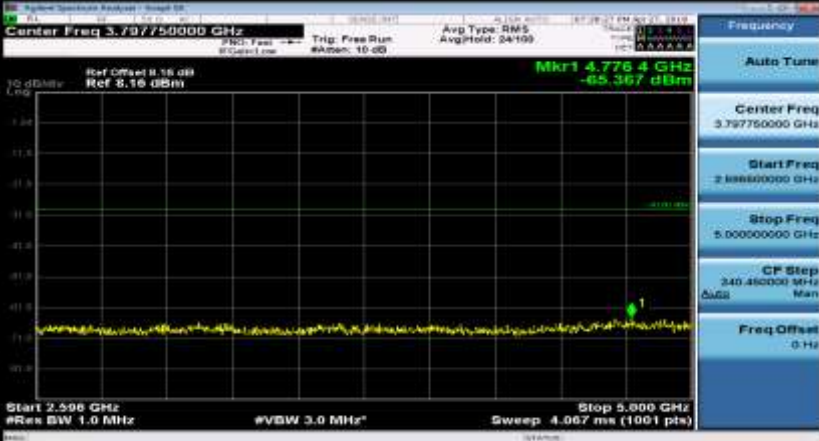
Co-existence	
Co-existence	
Co-existence	

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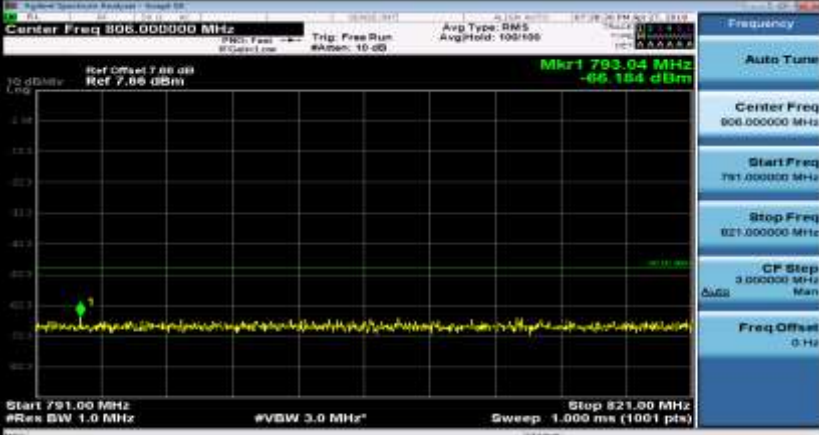

Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	
General	

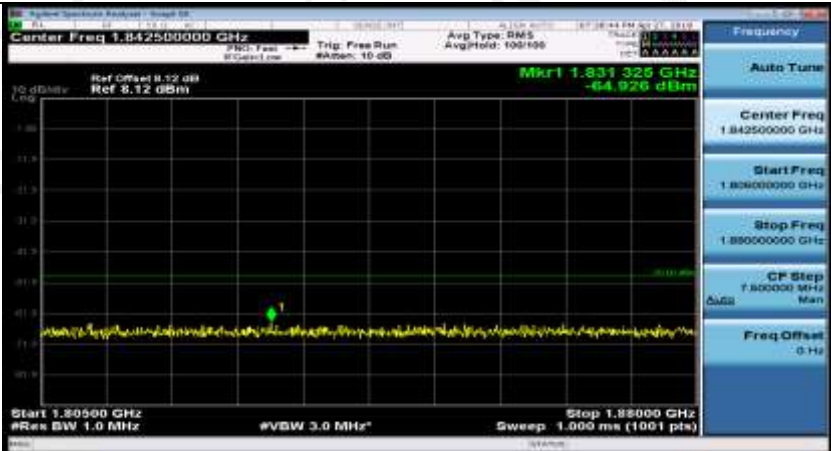
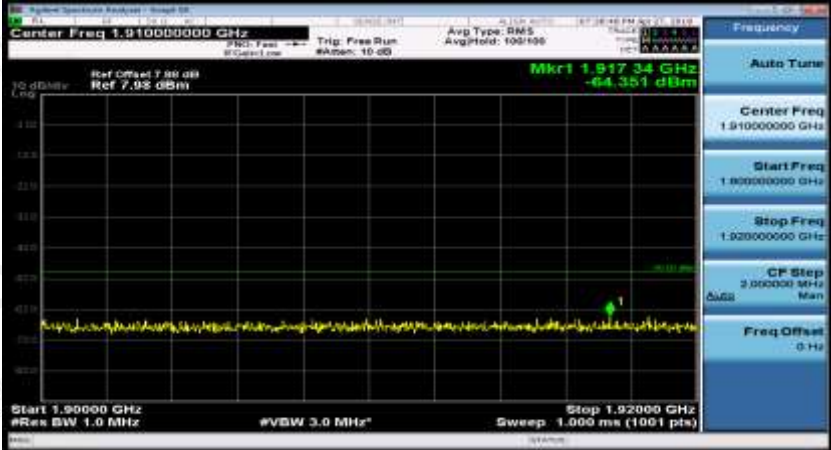
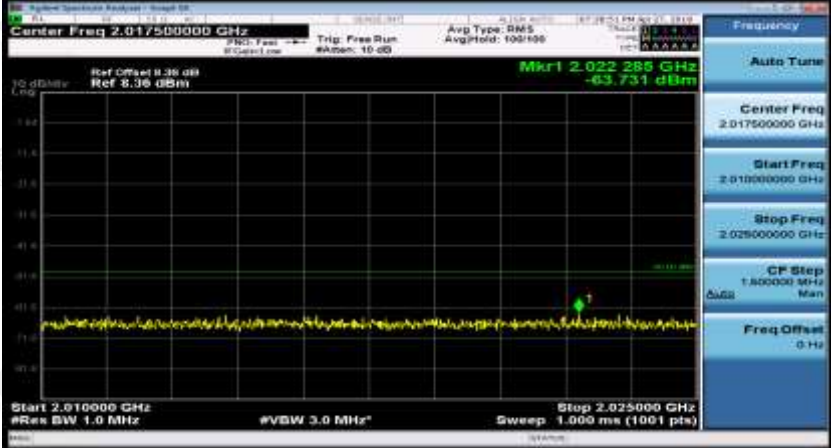
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General			
General			
General			

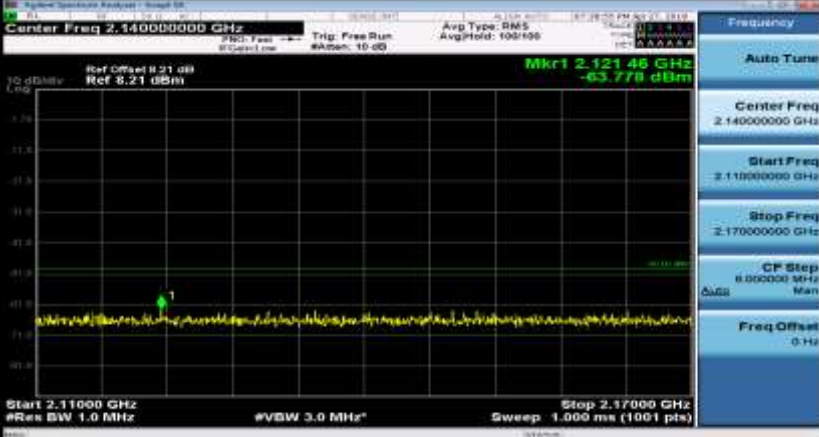
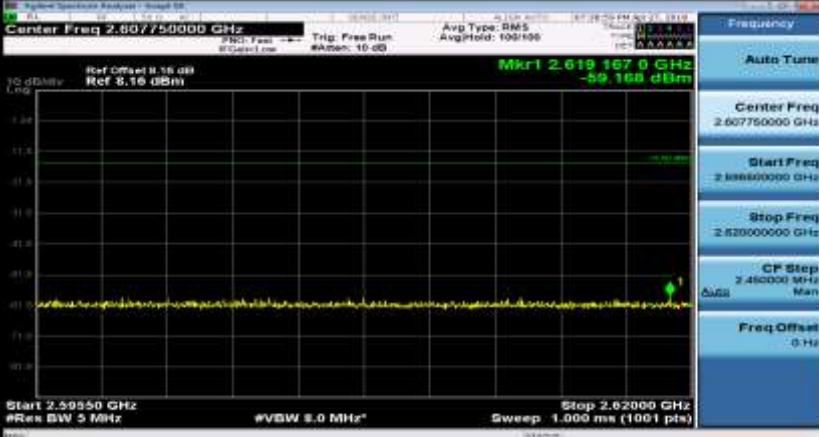
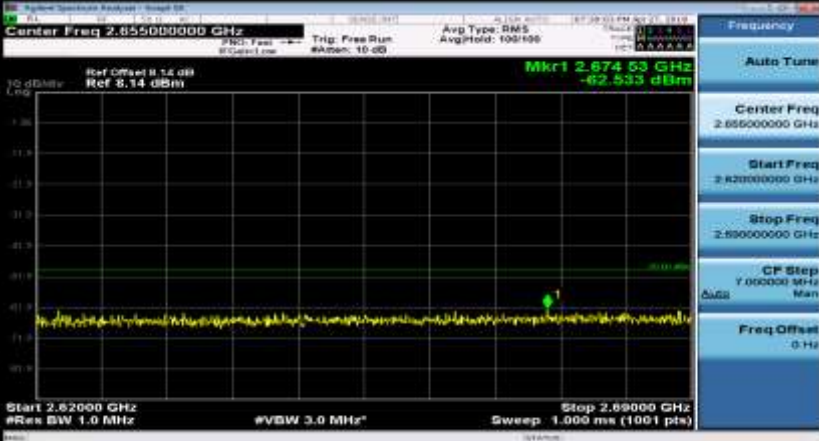
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
Co-existence			
Co-existence			

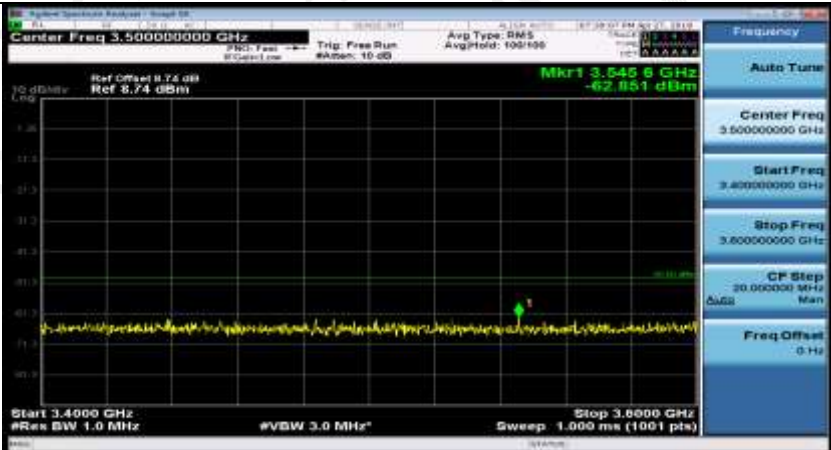
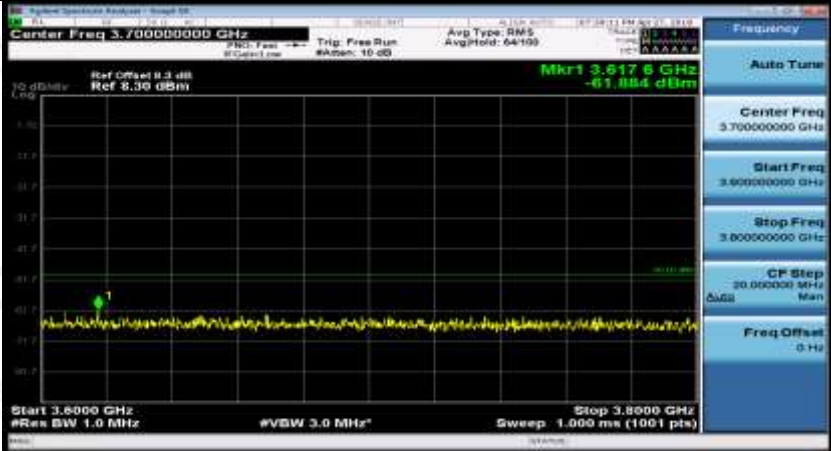
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

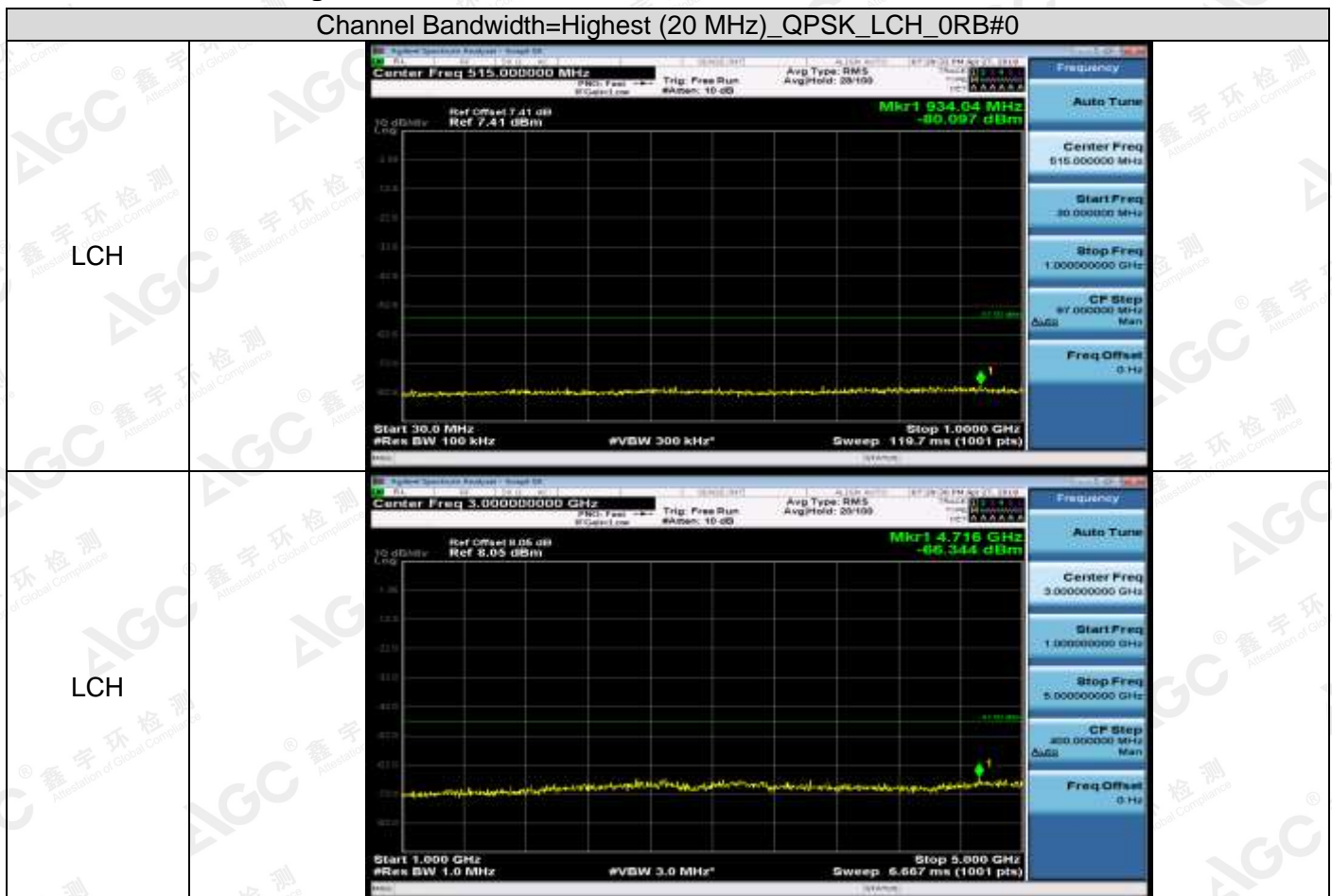
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

Test Graphs

NTNV

Channel Bandwidth=Highest



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Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_ORB#0



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Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_ORB#0



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7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment	NC				
Test Frequencies	Low range for FInterferer below FDL_low High range for FInterferer above FDL_high				
Test Channel Bandwidths	Lowest, 5MHz, Highest 20MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band	Band 7					
Test Environment	NC					
Test Frequencies	Mid range					
Test Channel Bandwidths	Lowest, 5MHz, Highest 20MHz					
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
Verdict	Pass					

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11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

	Test Band			Band 7			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TL,VL	5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
	Verdict	Pass					

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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-80.23	-80.56	-80.67
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-71.43	-71.31	-71.56
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-68.42	-68.89	-68.56

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Appendix D for Band 8

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	1.4 MHz	Low range	1	0	22.21	Pass
					max	22.23	Pass
				Partial	0	22.28	Pass
					max	22.29	Pass
			Mid range	1	0	22.33	Pass
					max	22.32	Pass
				Partial	0	22.36	Pass
					max	22.36	Pass
			High range	1	0	22.10	Pass
					max	22.12	Pass
				Partial	0	22.15	Pass
					max	22.26	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	5MHz	Low range	1	0	22.26	Pass
					max	22.38	Pass
				Partial	0	22.37	Pass
					max	22.44	Pass
			Mid range	1	0	22.33	Pass
					max	22.45	Pass
				Partial	0	22.43	Pass
					max	22.55	Pass
			High range	1	0	22.57	Pass
					max	22.36	Pass
				Partial	0	22.78	Pass
					max	22.45	Pass

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Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	10 MHz	Low range	1	0	22.29	Pass
					max	22.54	Pass
				Partial	0	22.28	Pass
					max	22.42	Pass
			Mid range	1	0	22.41	Pass
					max	22.47	Pass
				Partial	0	22.46	Pass
					max	22.48	Pass
			High range	1	0	22.65	Pass
					max	22.33	Pass
				Partial	0	22.50	Pass
					max	21.33	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTHV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	1.4 MHz	Low range	Full	0	-48.80	Pass
			Mid range	Full	0	-53.57	Pass
			High range	Full	0	-53.94	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	5MHz	Low range	Full	0	-53.02	Pass
			Mid range	Full	0	-53.19	Pass
			High range	Full	0	-53.41	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	10MHz	Low range	Full	0	-52.55	Pass
			Mid range	Full	0	-52.70	Pass
			High range	Full	0	-53.11	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass

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			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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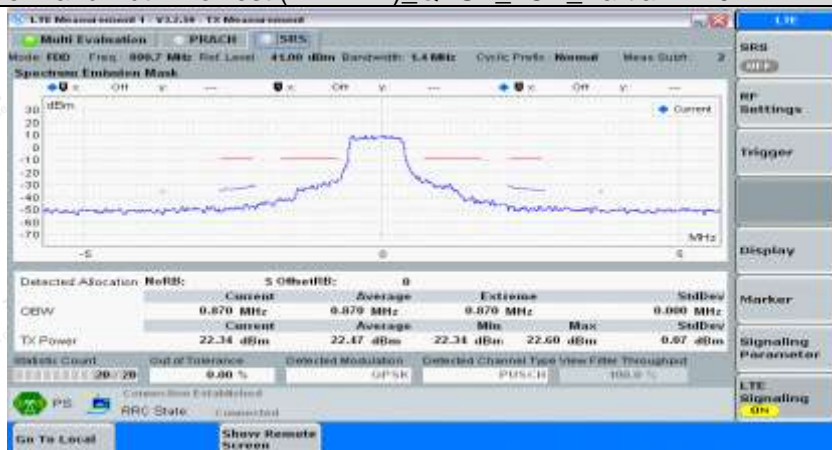
Test Graphs

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

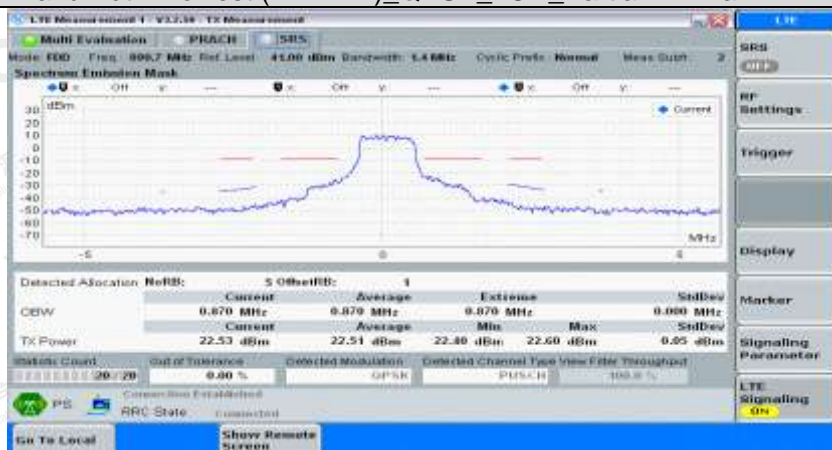
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#0

QPSK



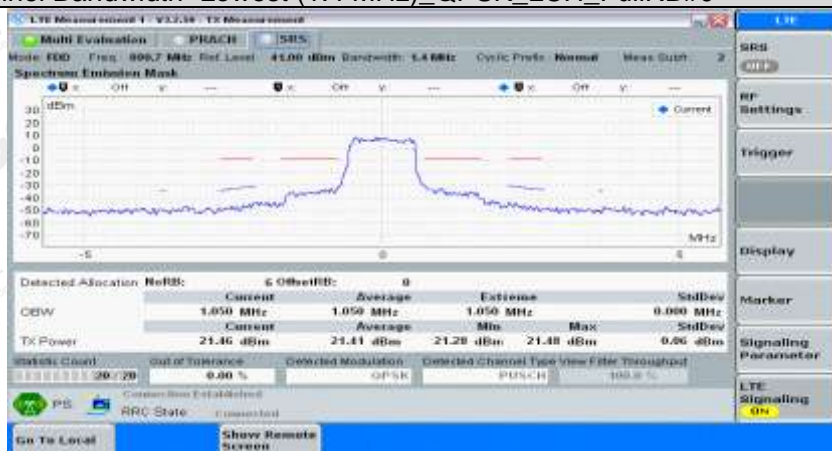
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#max

QPSK



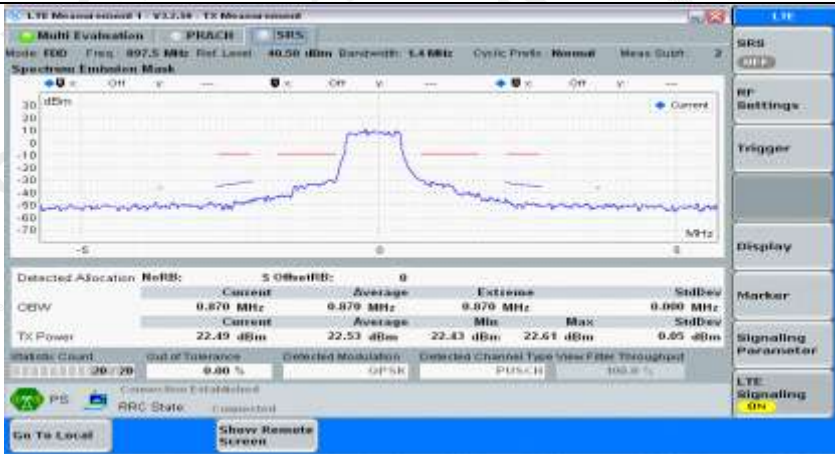
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#0

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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0	

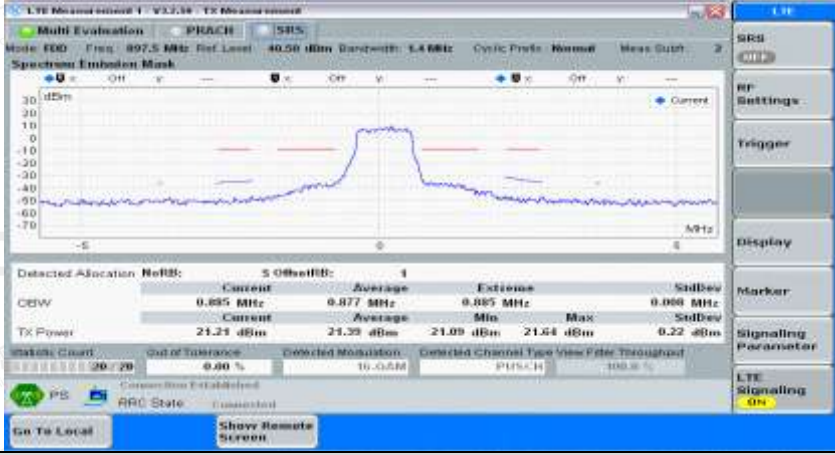
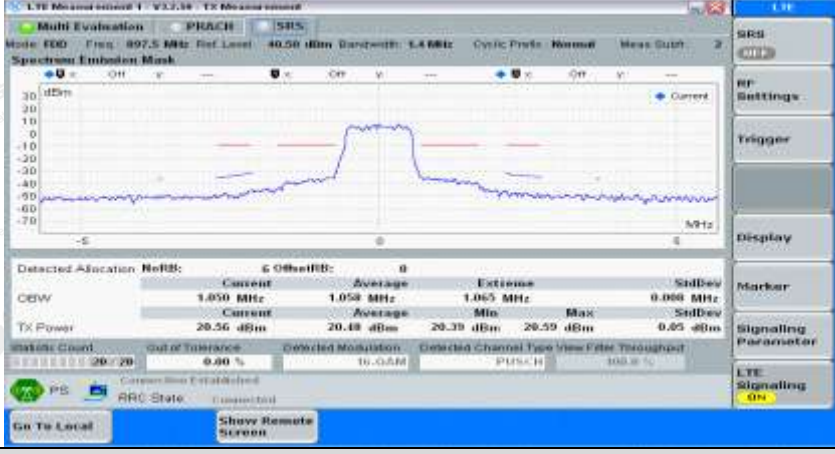
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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0	

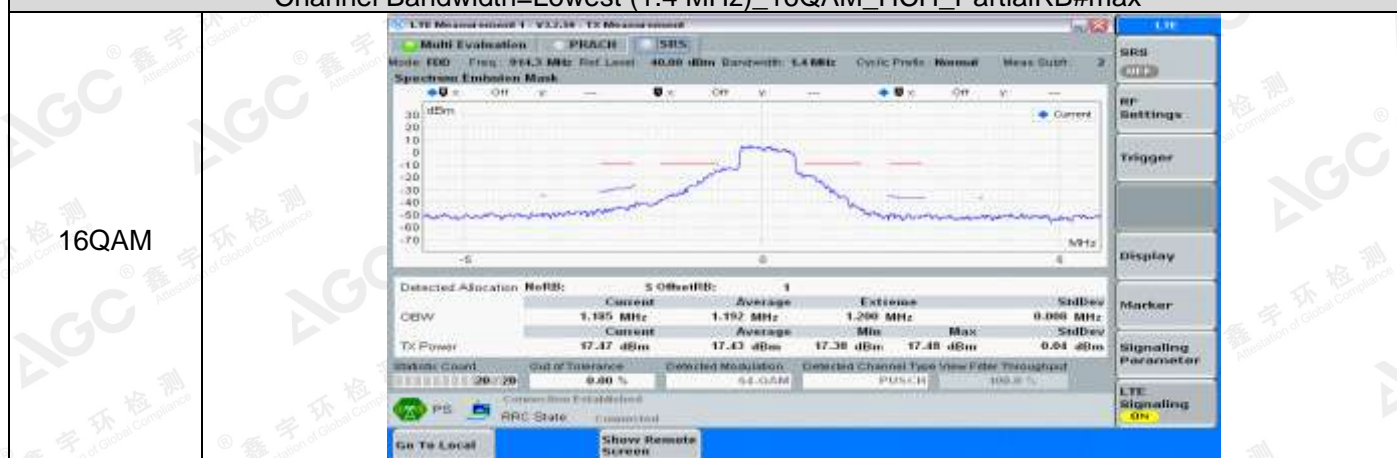
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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0	

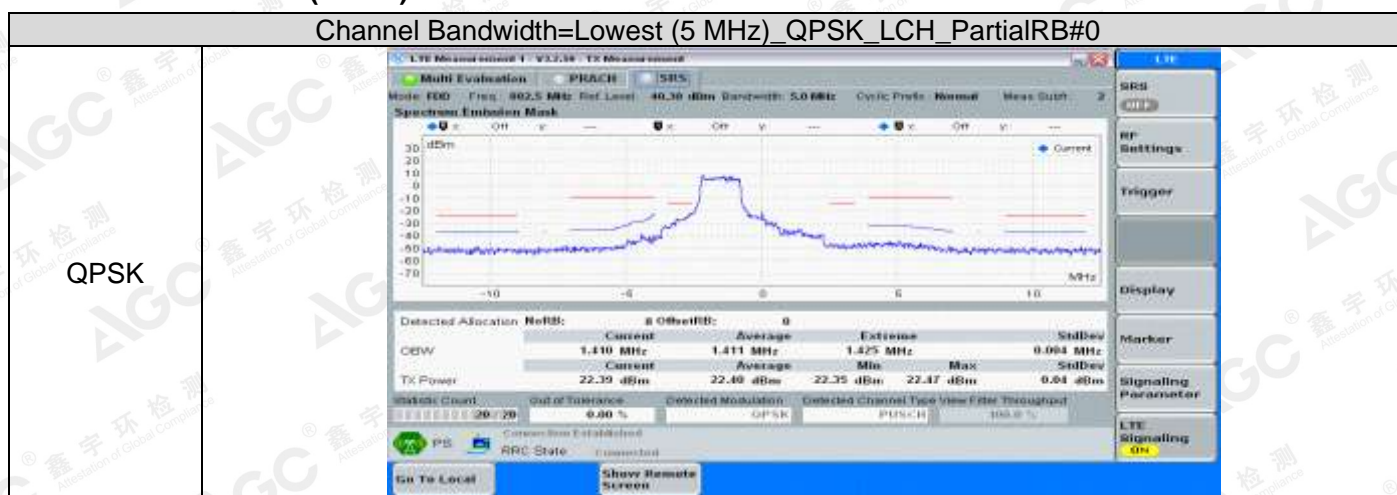
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Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max


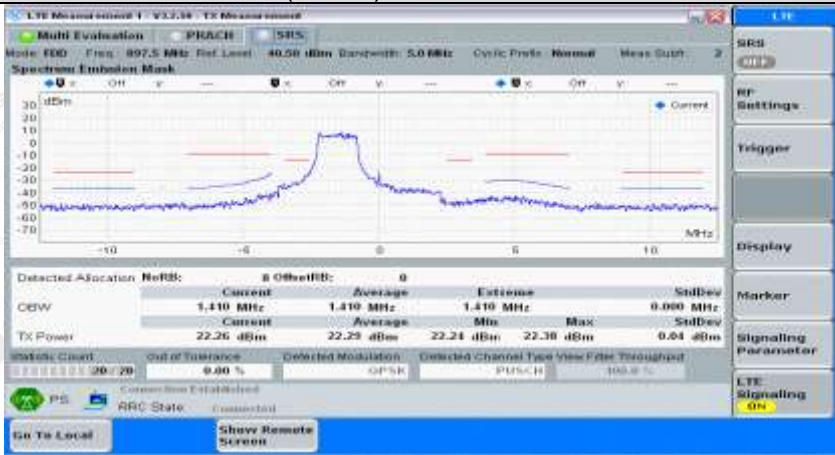


Channel Bandwidth=(5 MHz)

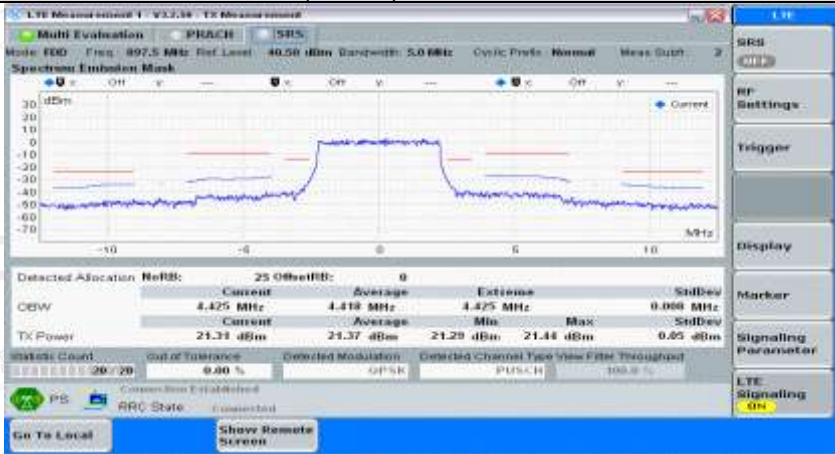



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

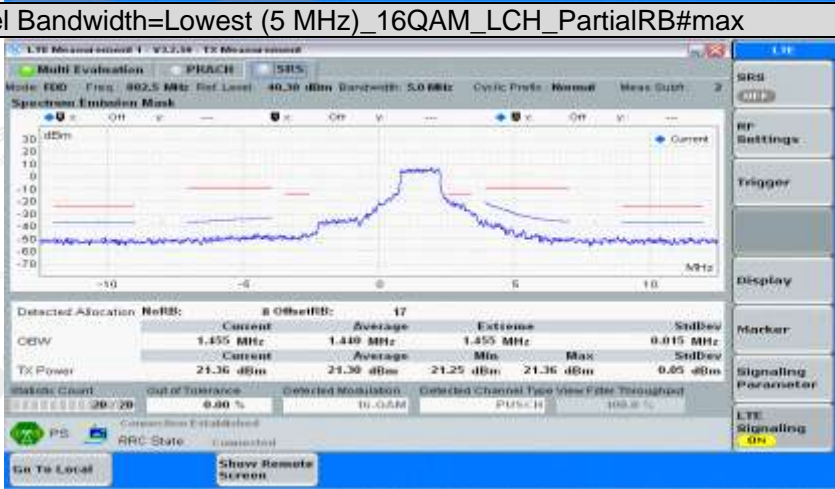
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	

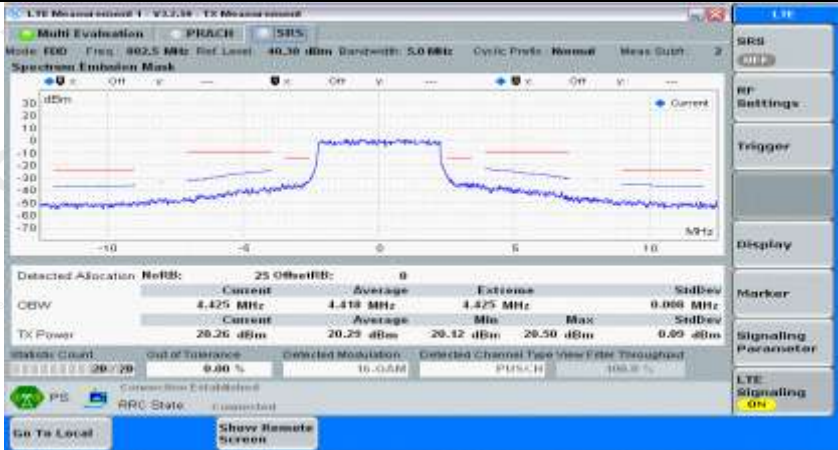
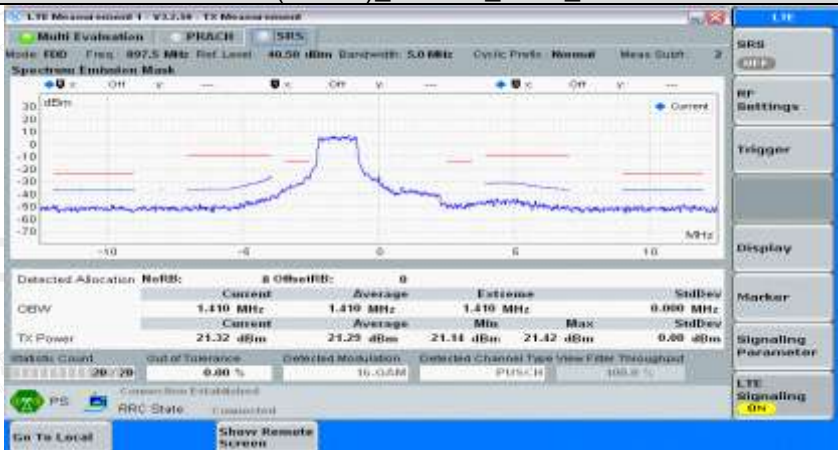
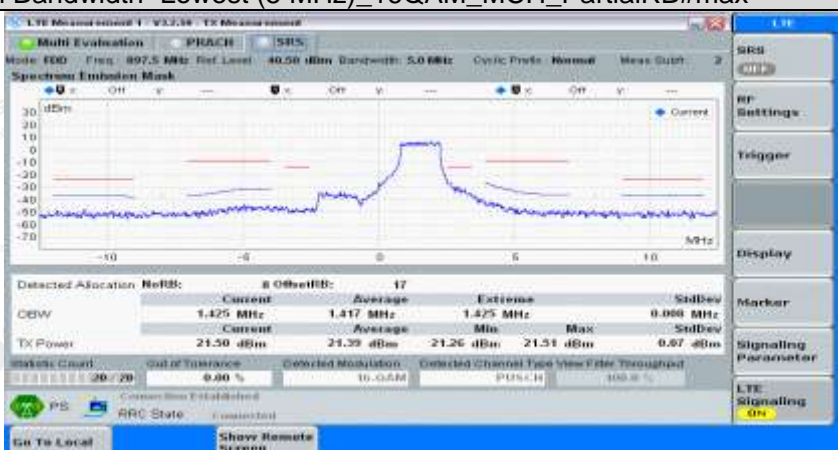
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	

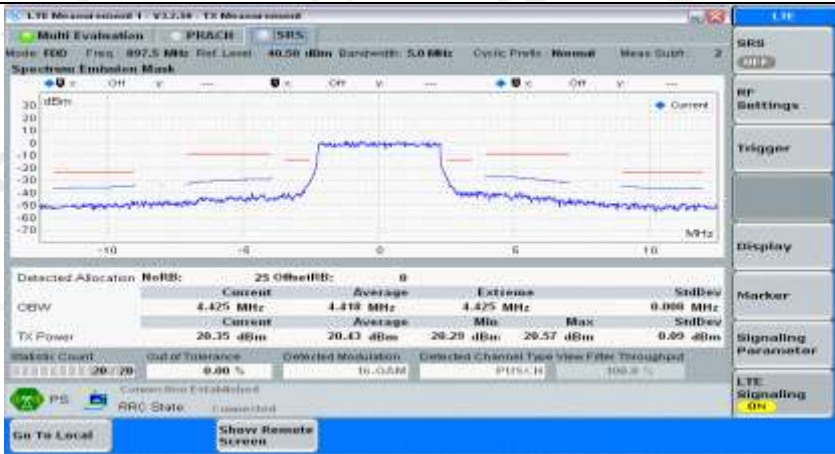
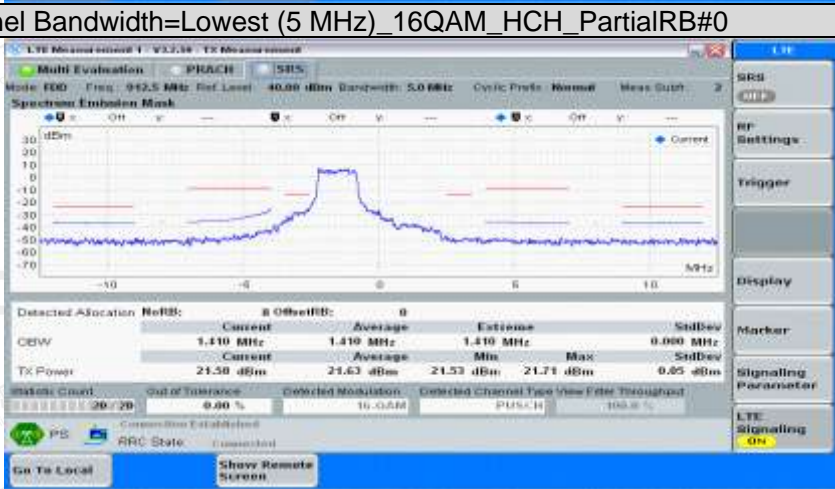
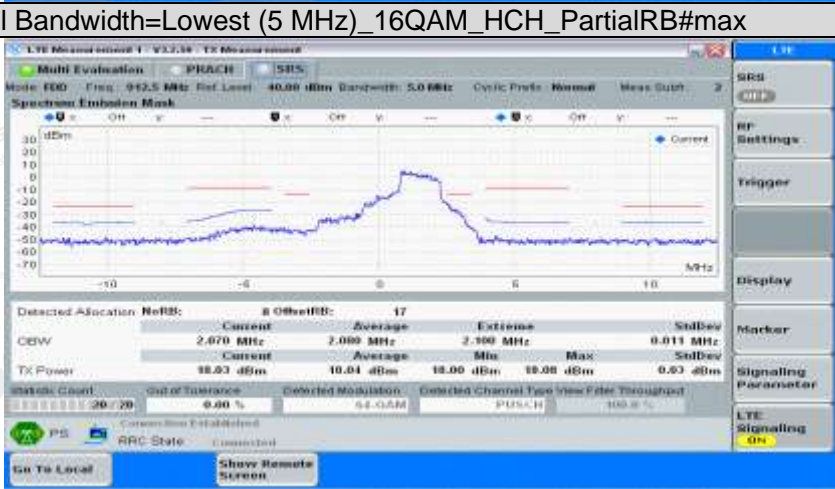
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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>

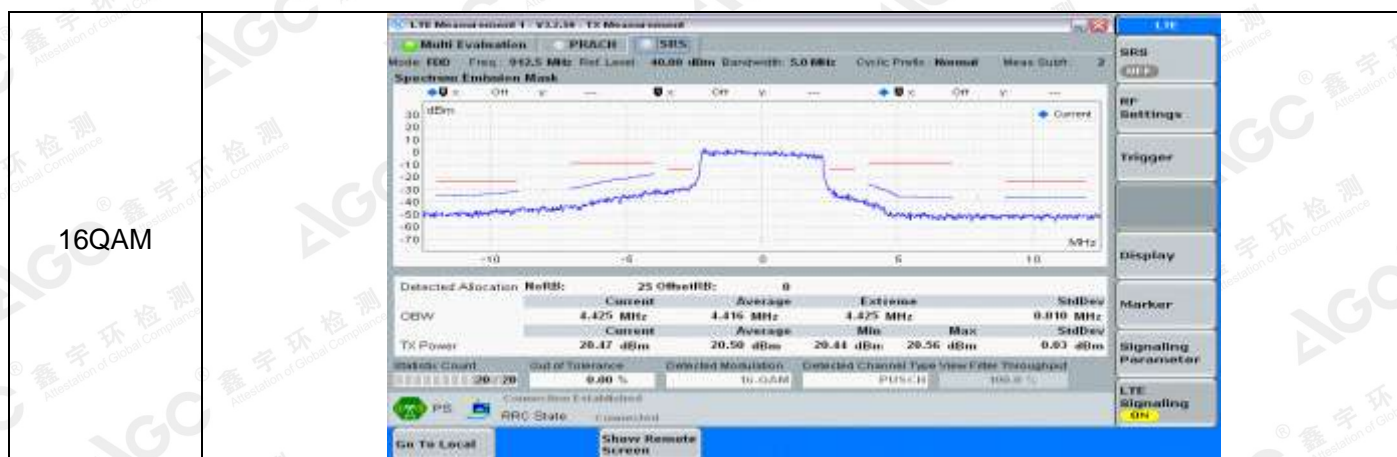
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	

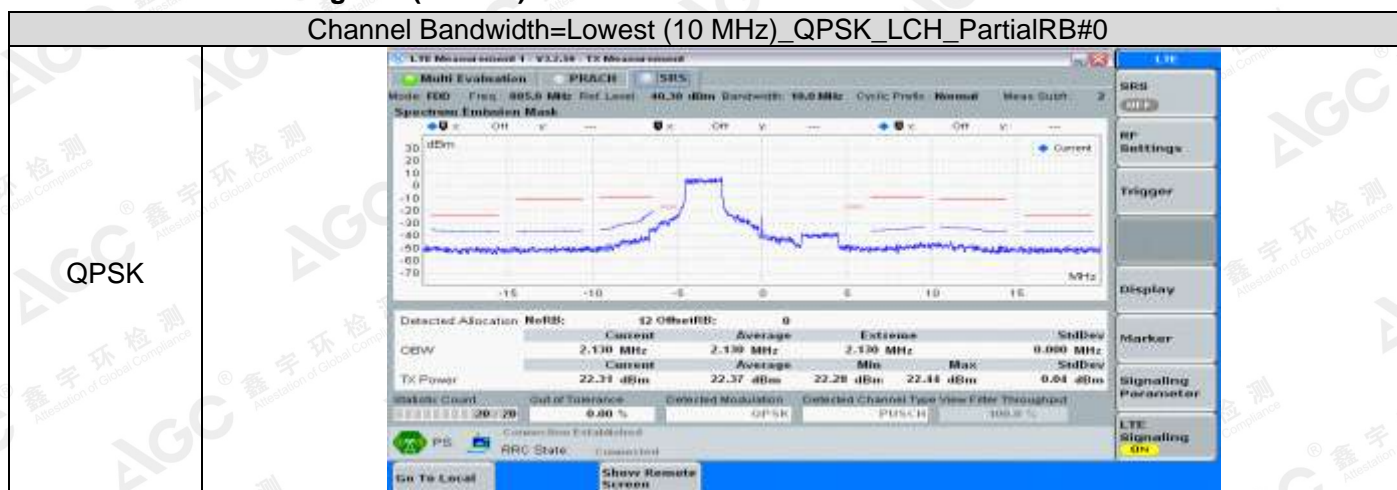
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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0</p>

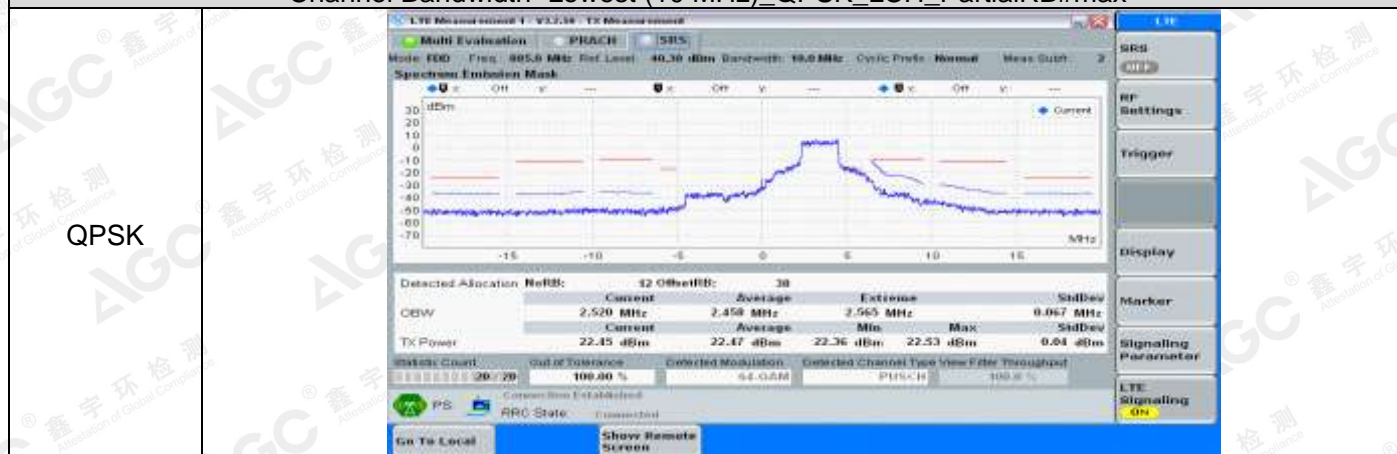
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Channel Bandwidth=Highest (10 MHz)

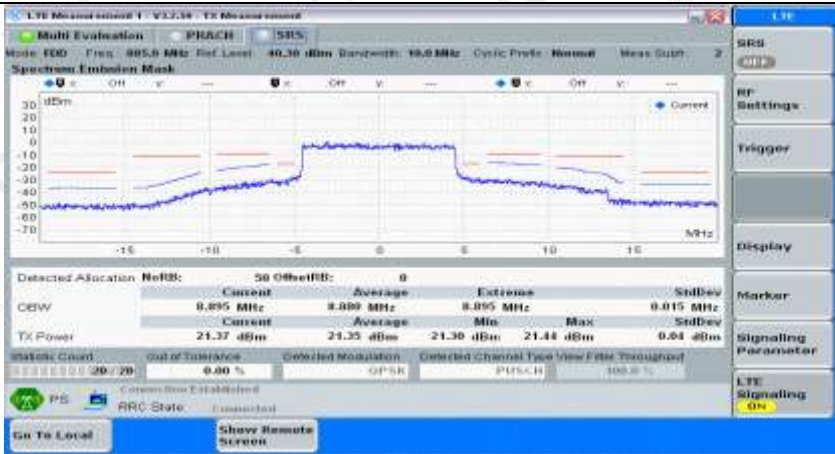
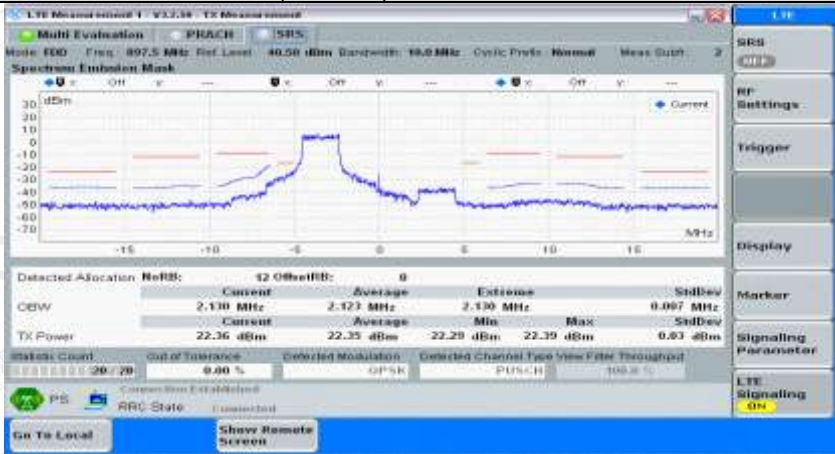



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

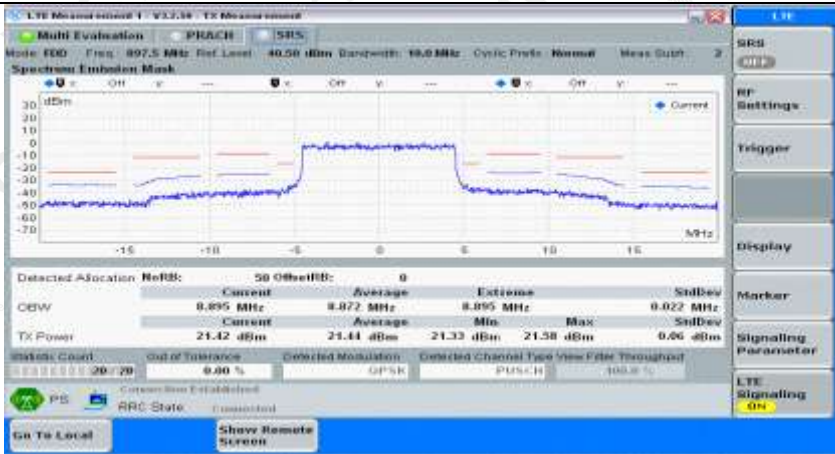

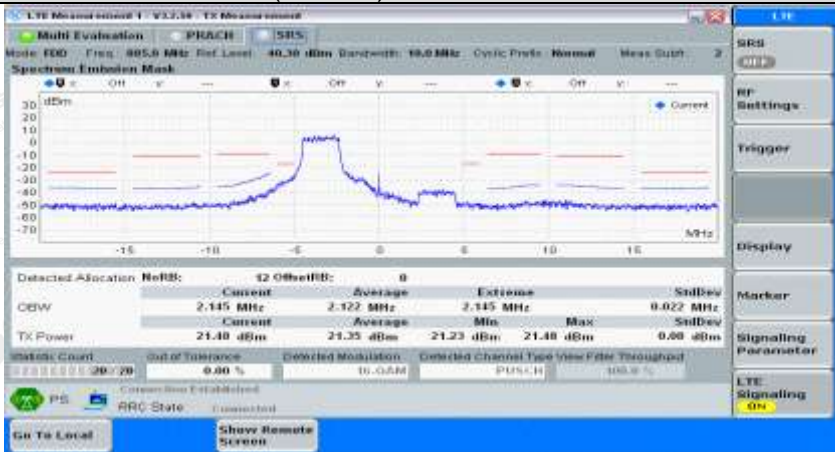


Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

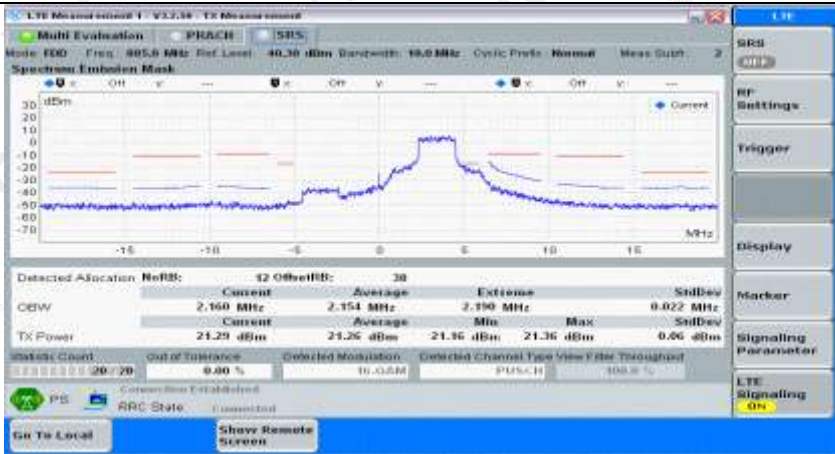
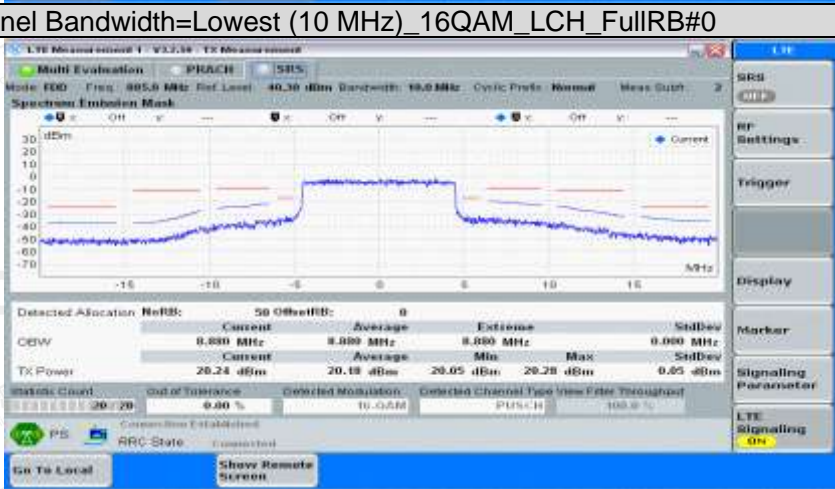
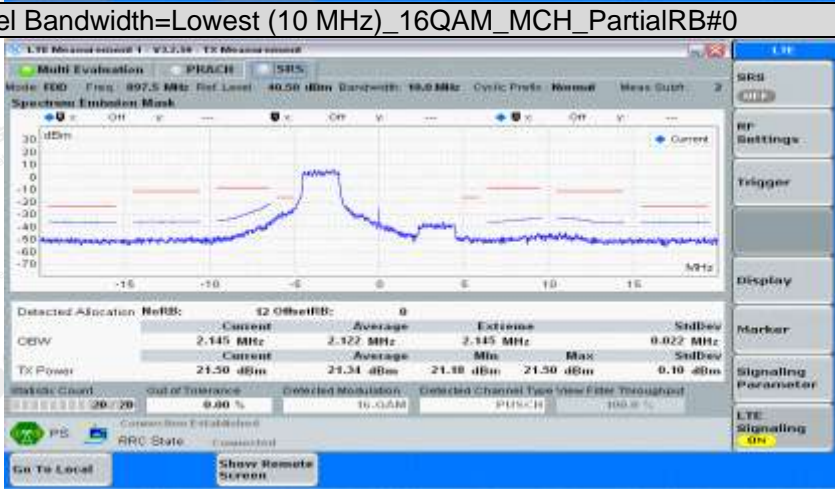
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	

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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialIRB#max</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTHV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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			Mid range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

LTHV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#max

QPSK



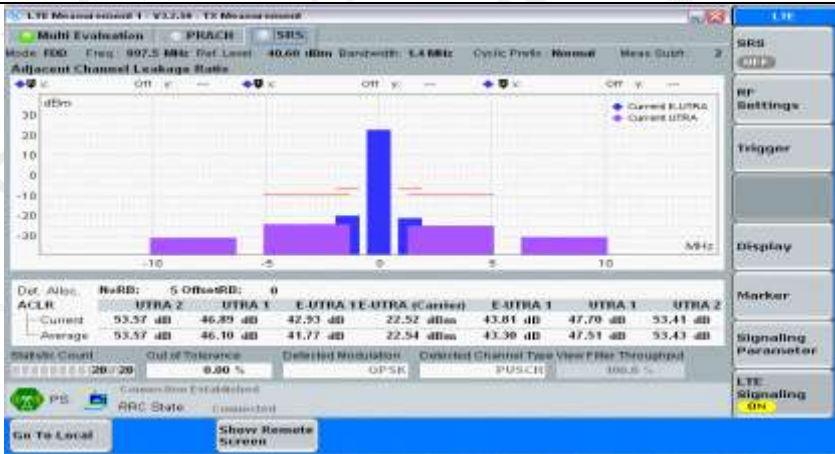
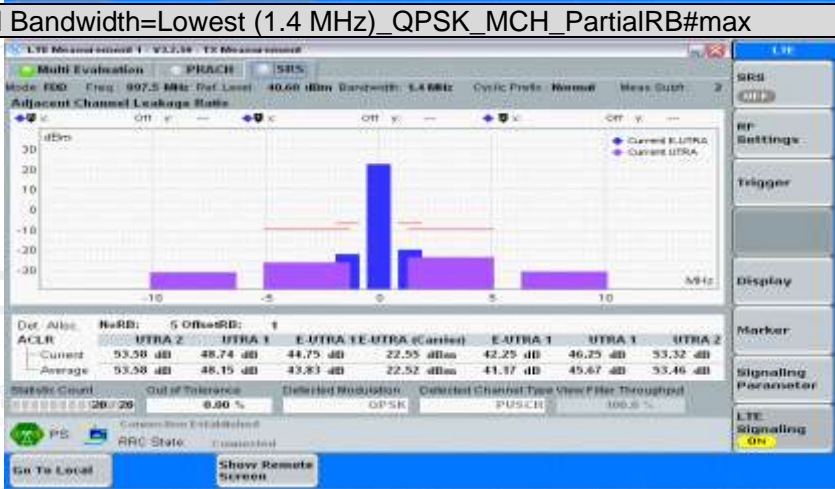
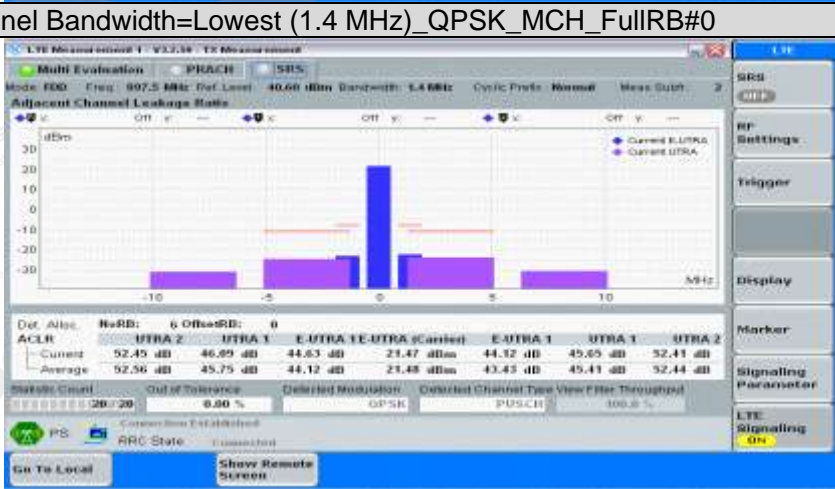
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullIRB#0

QPSK



Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#0

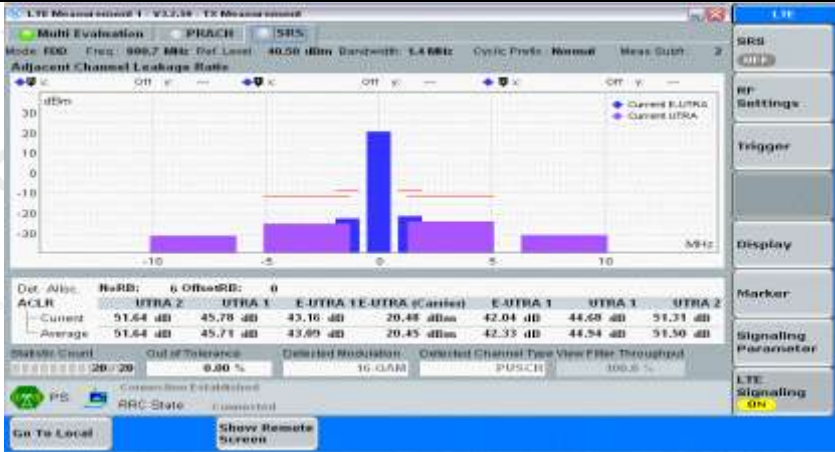


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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0</p>

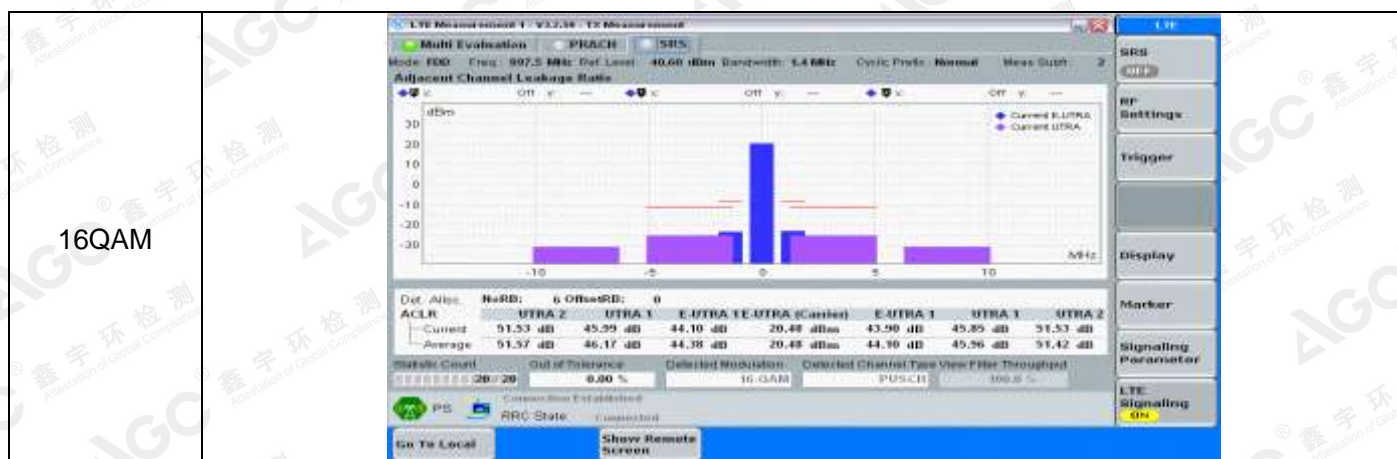
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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0</p>

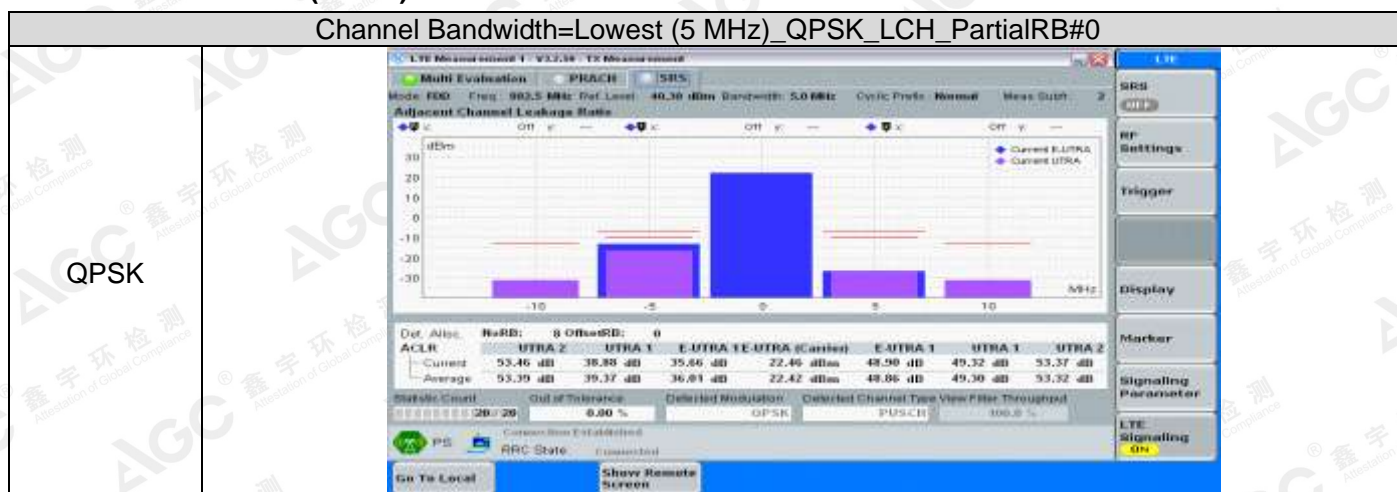
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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0</p>

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Channel Bandwidth= (5 MHz)



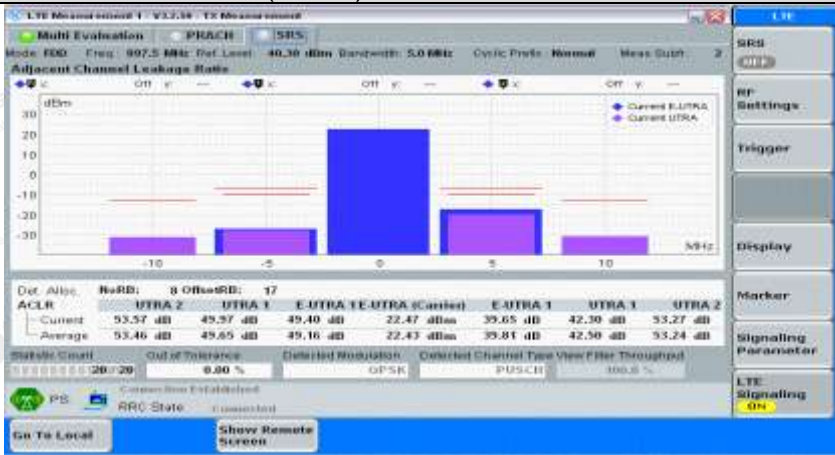


Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max






Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0




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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>


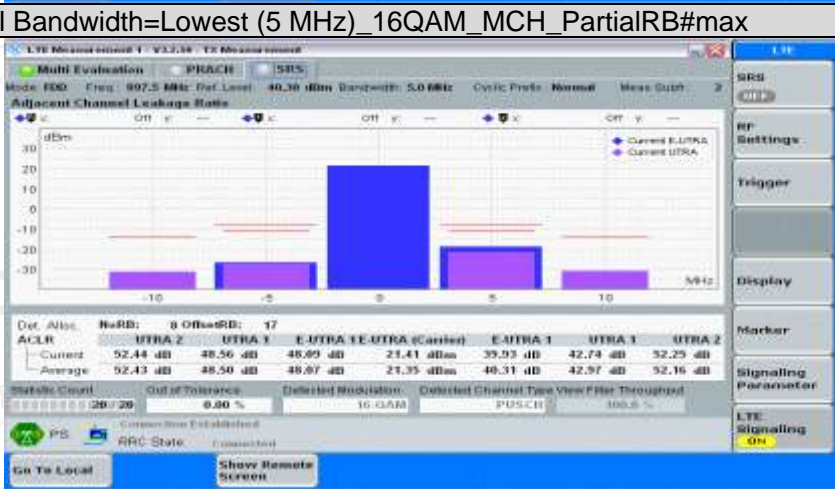
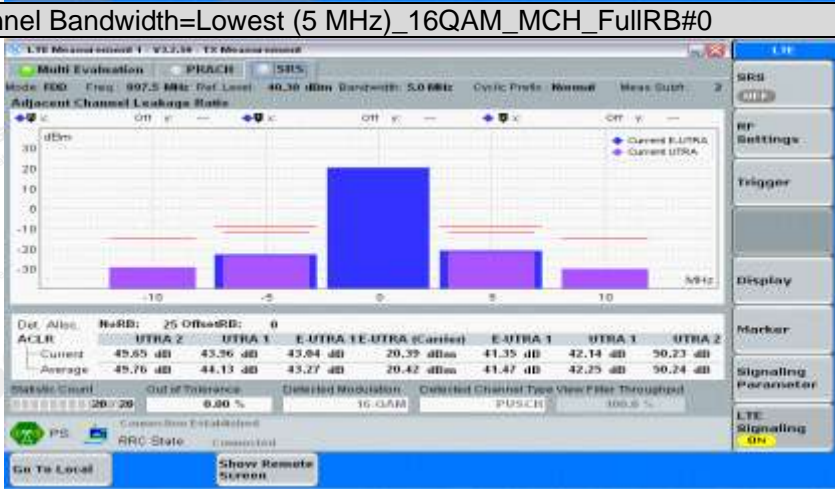
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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>


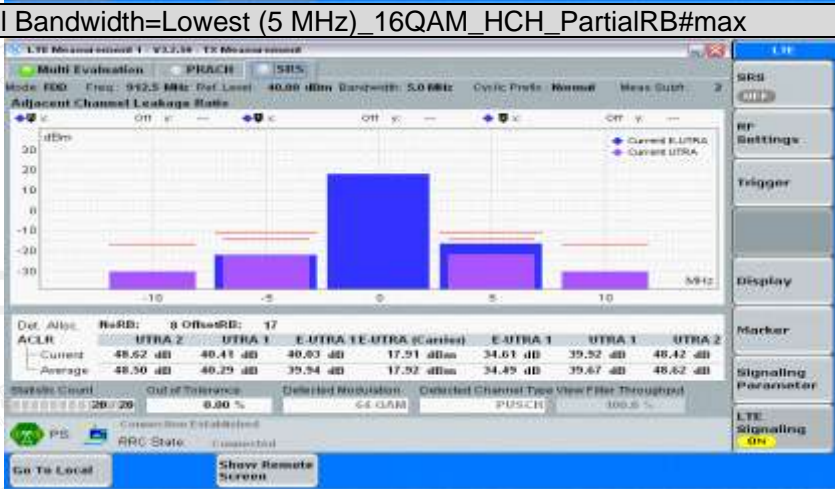
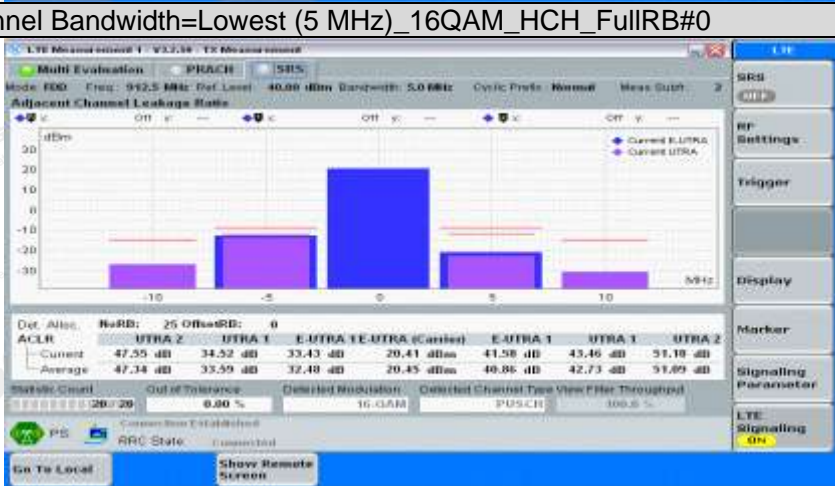
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0

QPSK



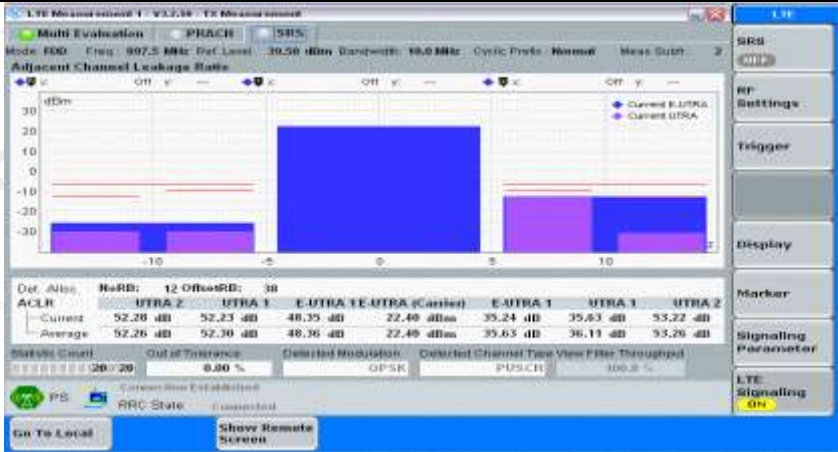


Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

QPSK






Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max




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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialIRB#max</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Test Graphs

NTNV


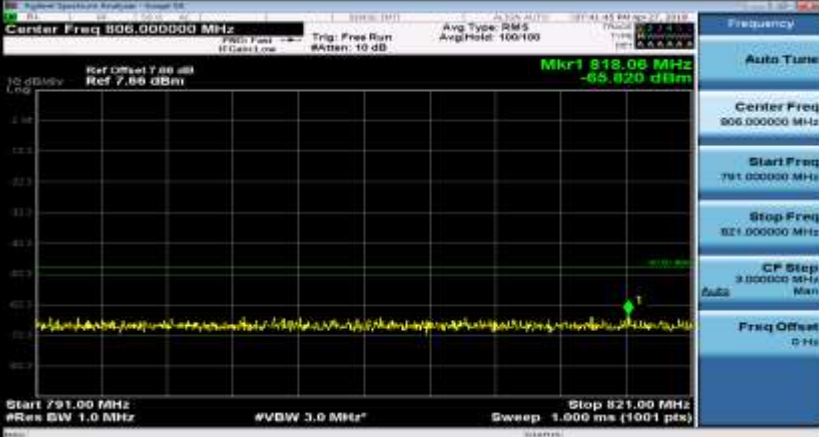
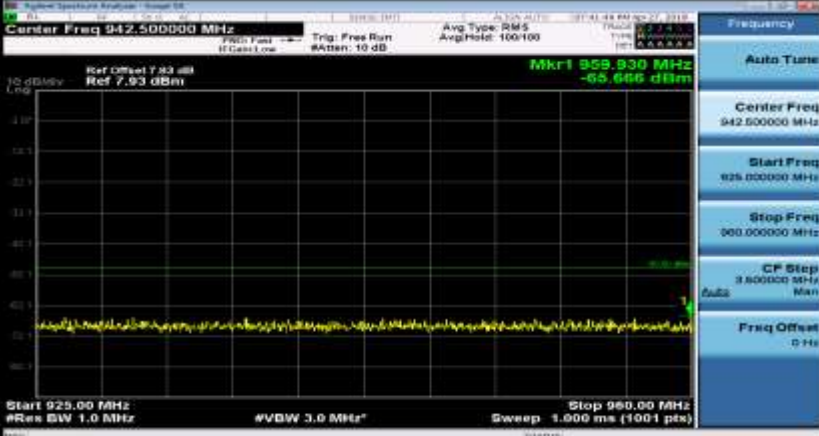
Channel Bandwidth=Lowest (1.4 MHz)



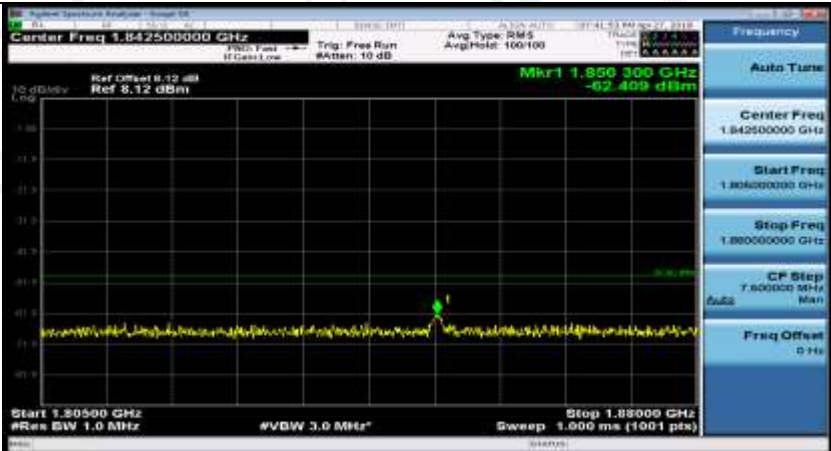
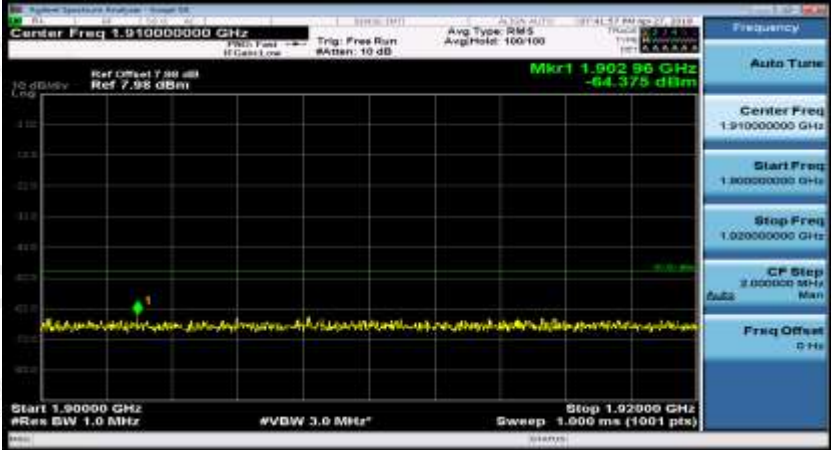
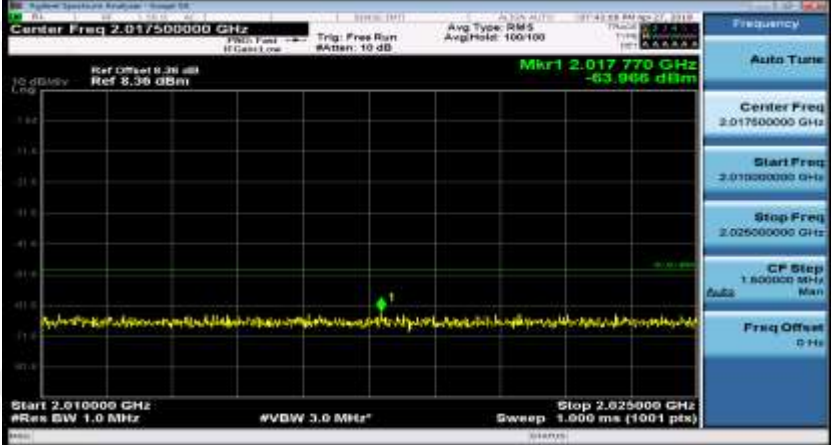
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General			
General			
General			

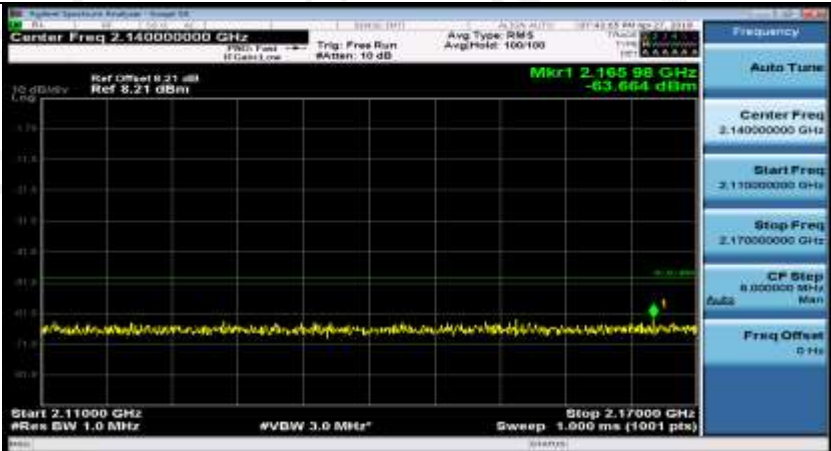
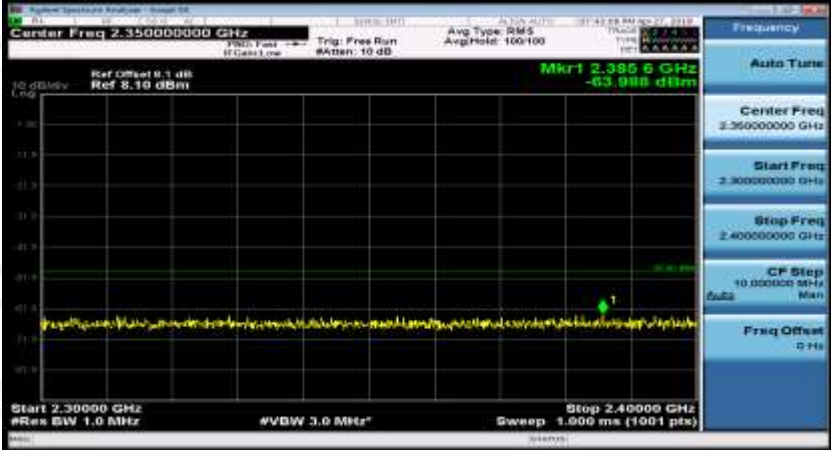
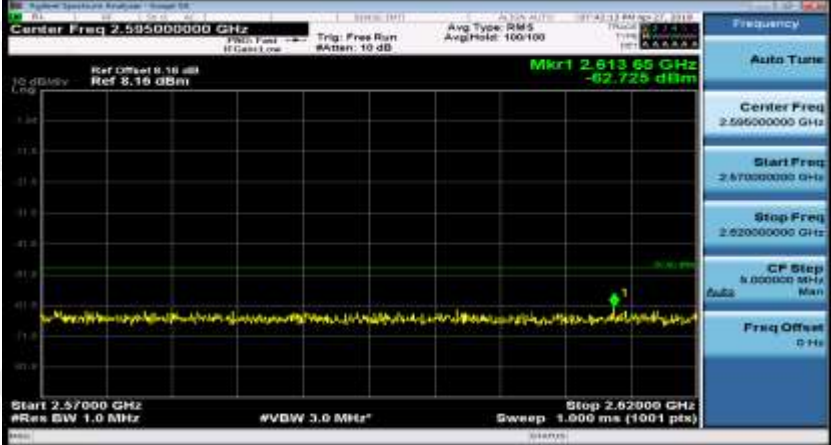
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General			
Co-existence			
Co-existence			

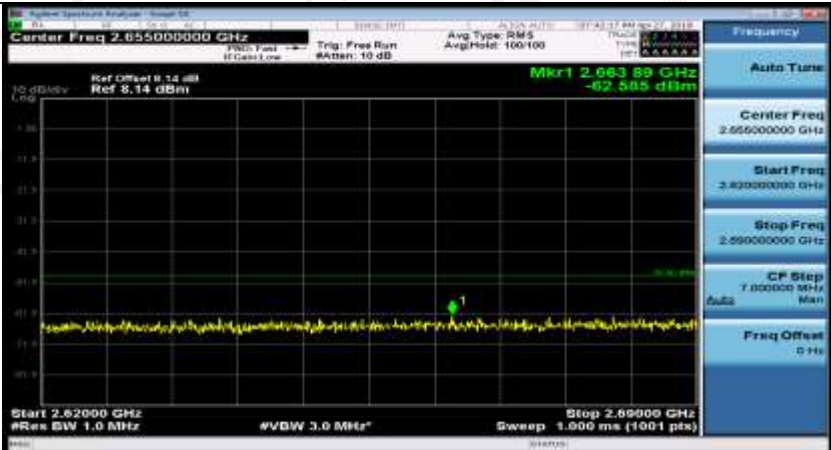

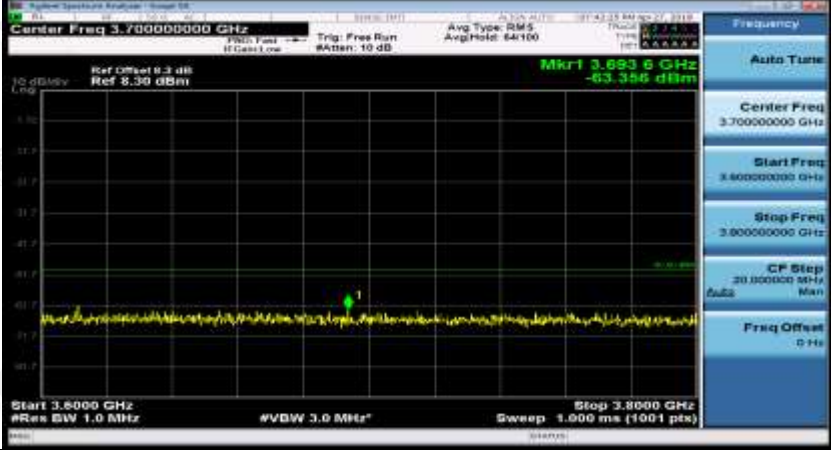
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

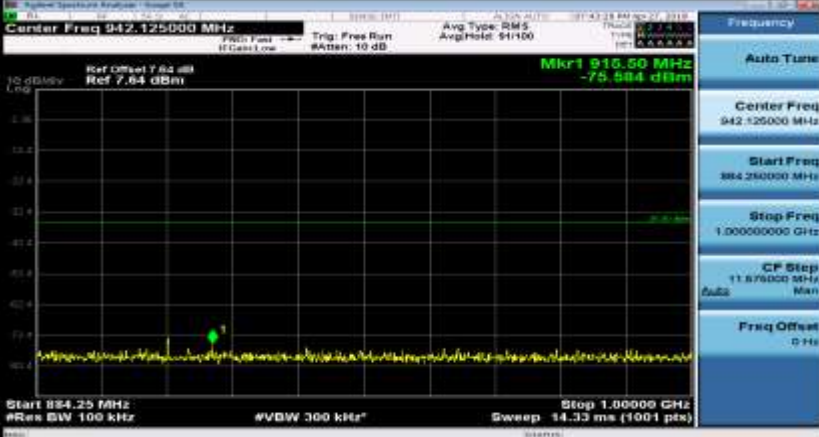


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Co-existence	
Co-existence	
Co-existence	
Additional	NA

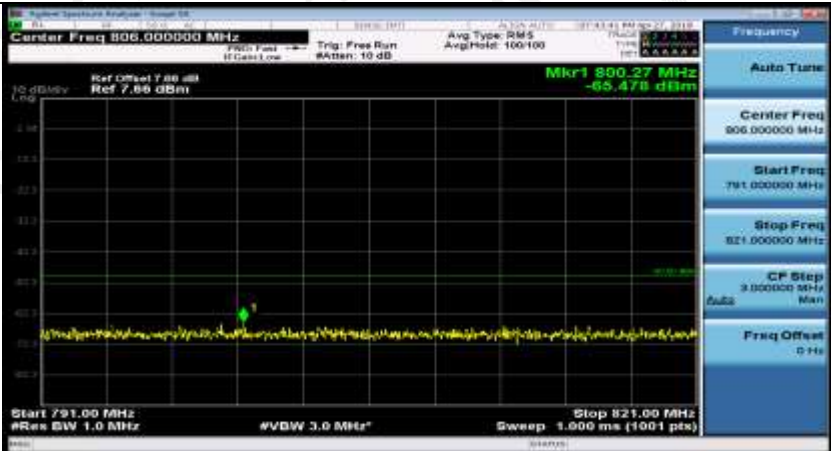
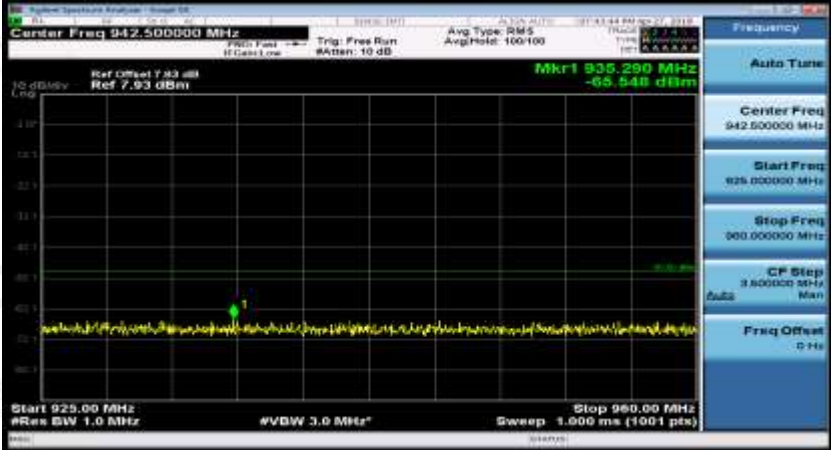
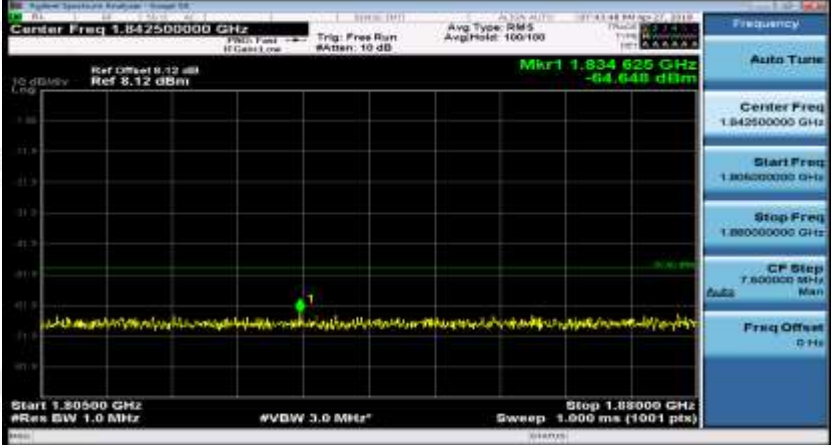
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Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_1RB#max	
General	
General	
General	

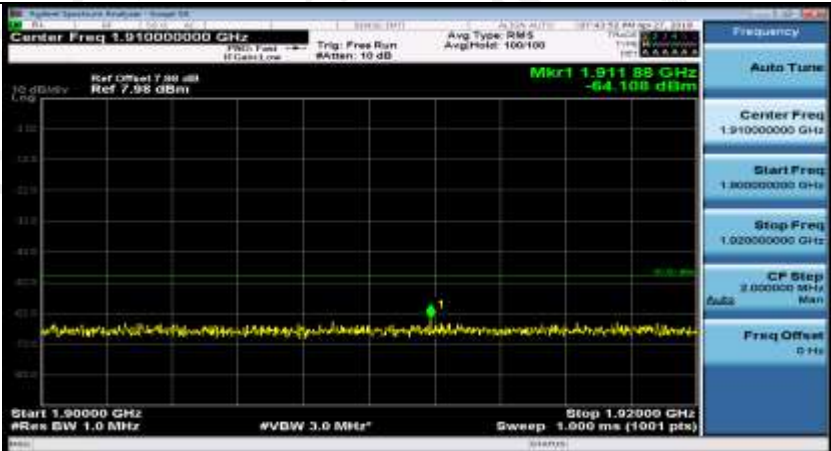
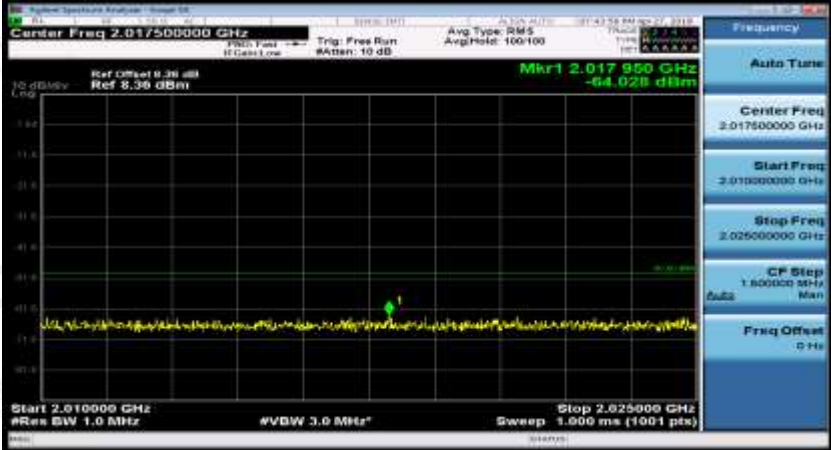
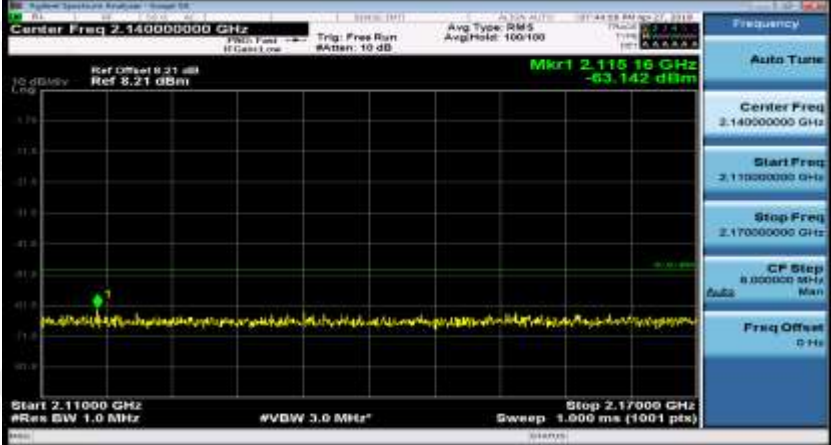
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General			
General			
General			

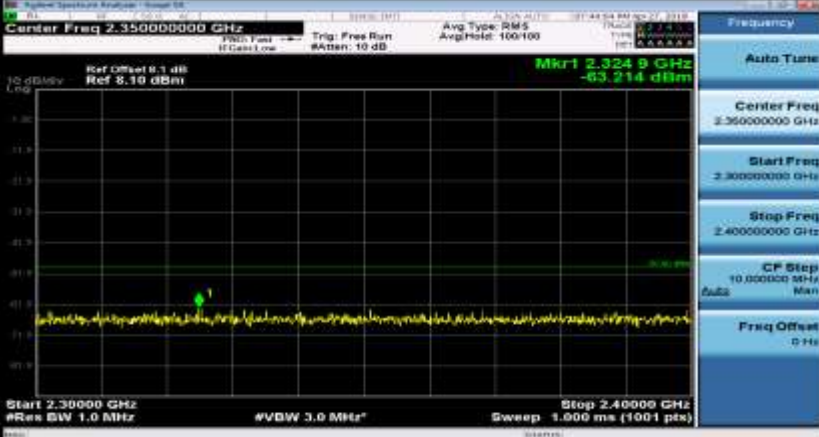
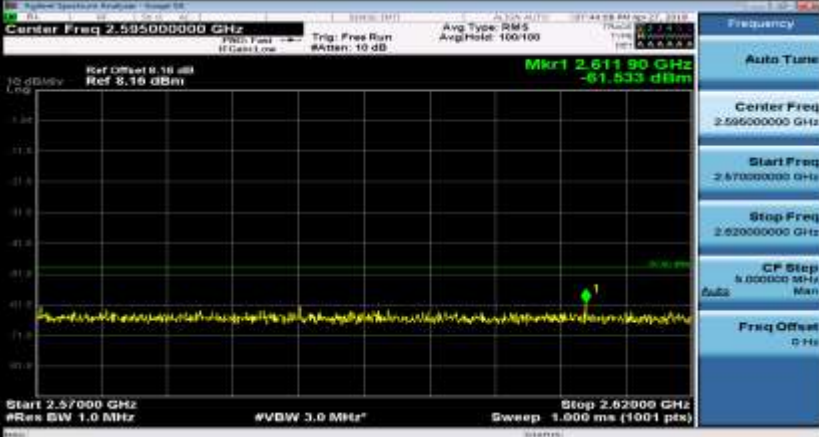

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Co-existence	
Co-existence	
Co-existence	

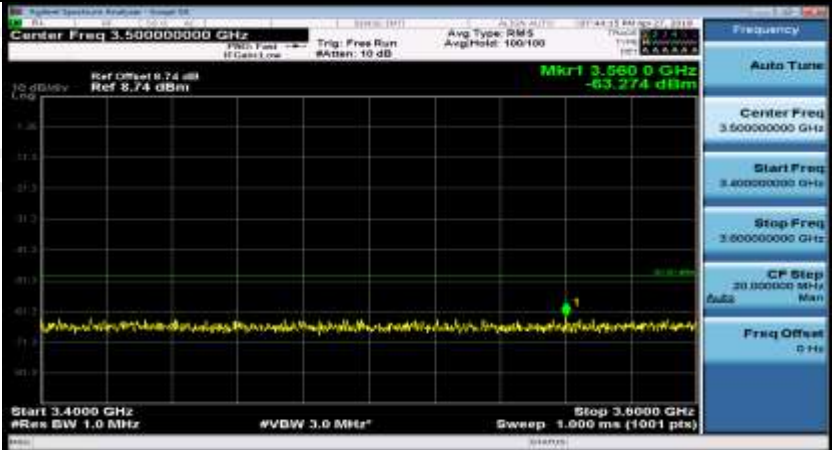
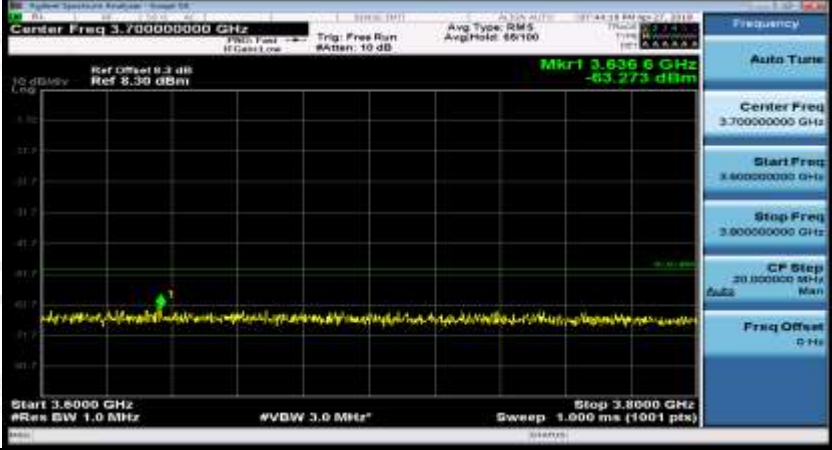
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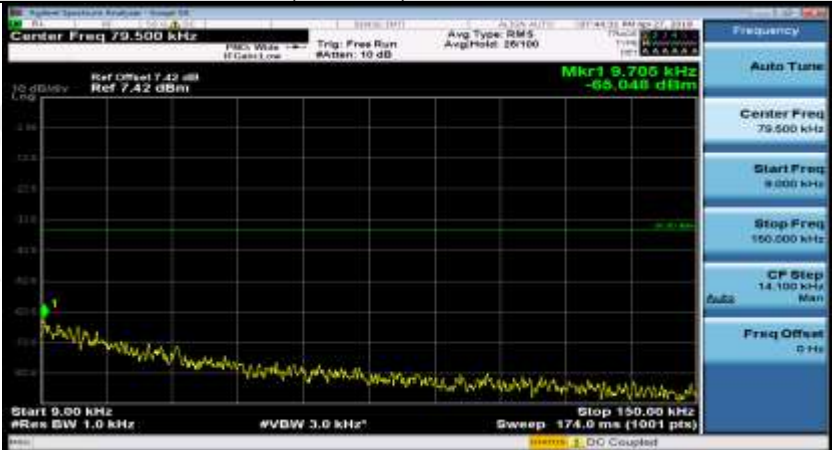
Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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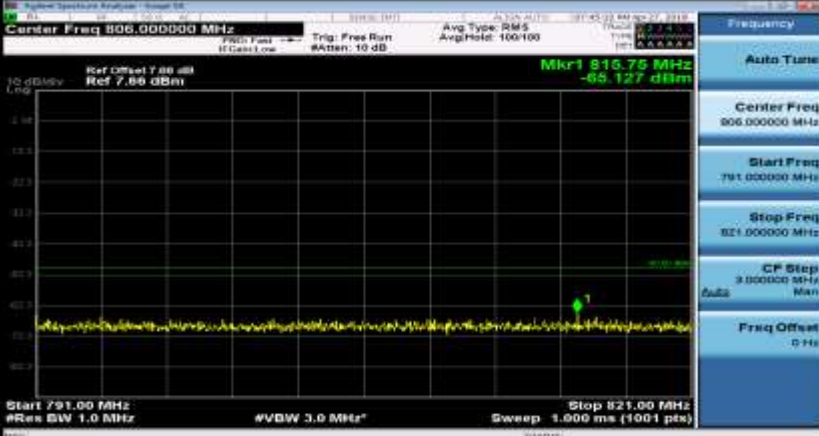
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullIRB#0	
General	

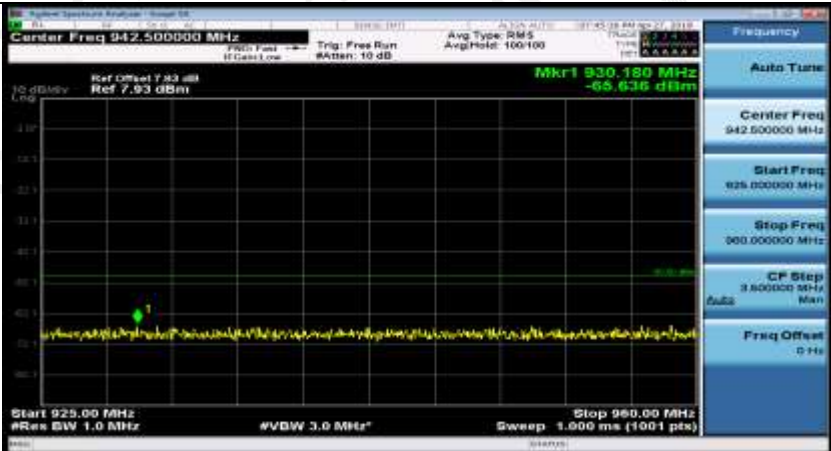
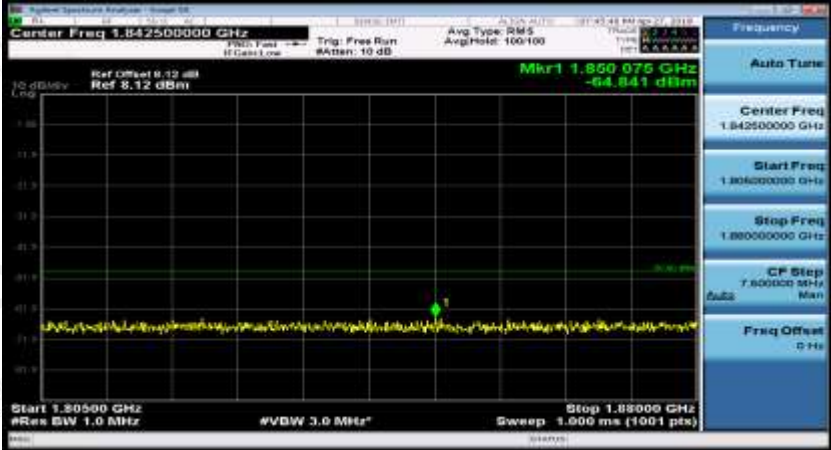
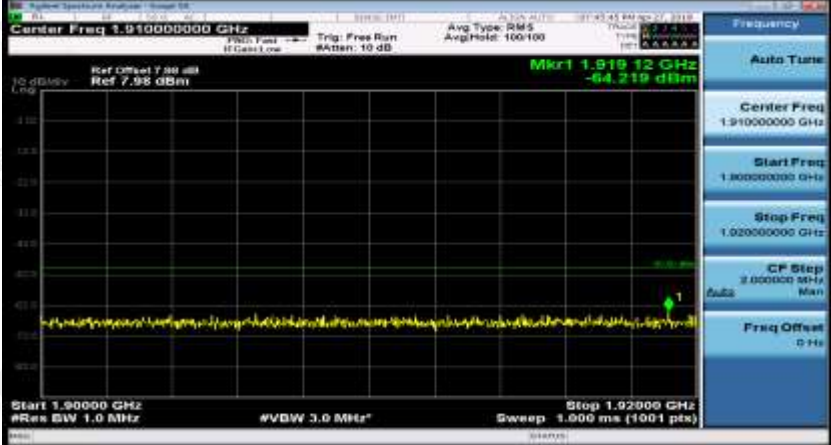
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General			
General			
General			

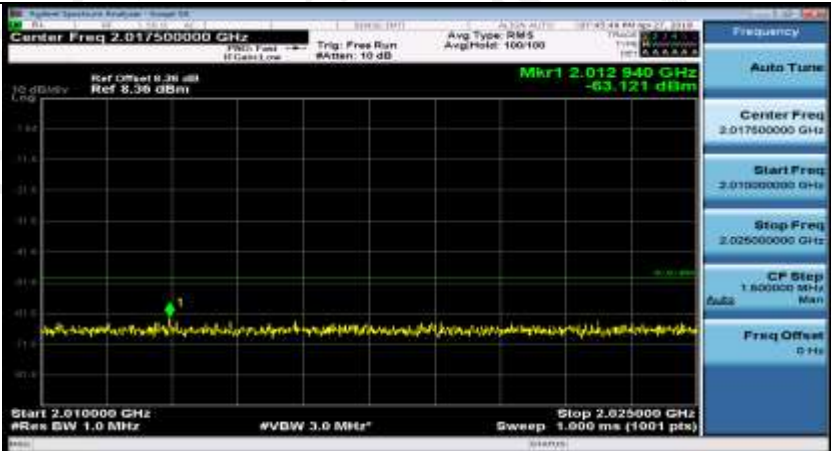
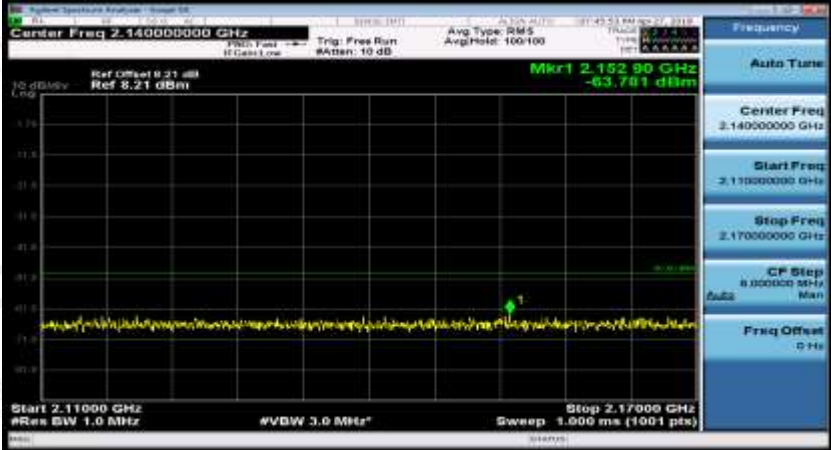
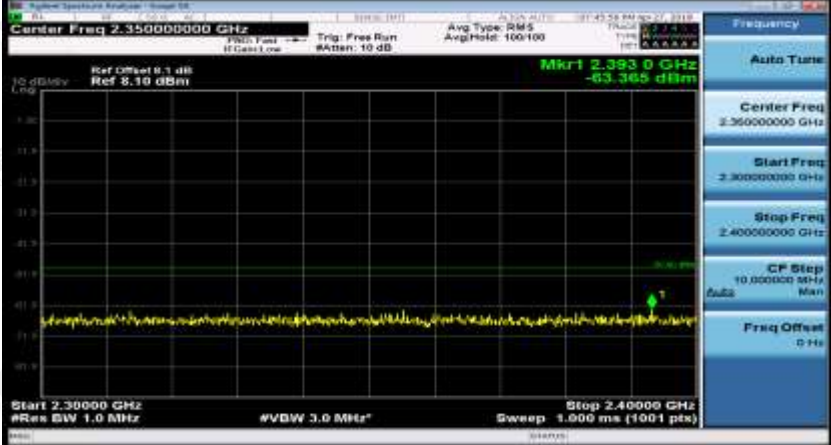
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General			
General			
Co-existence			

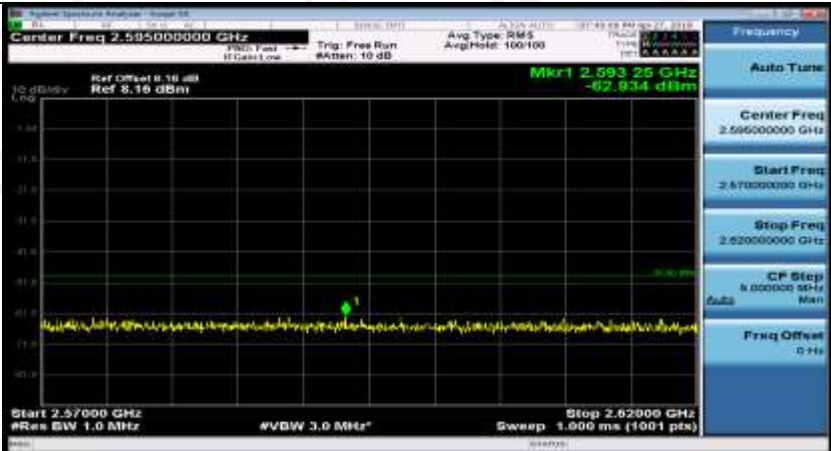
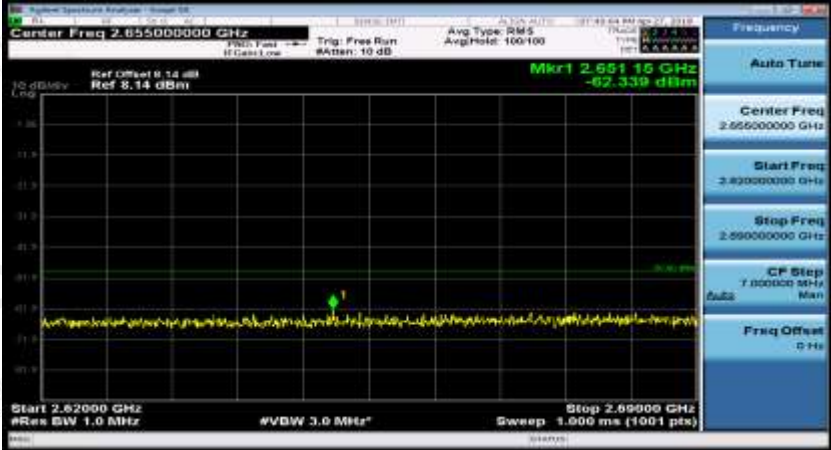
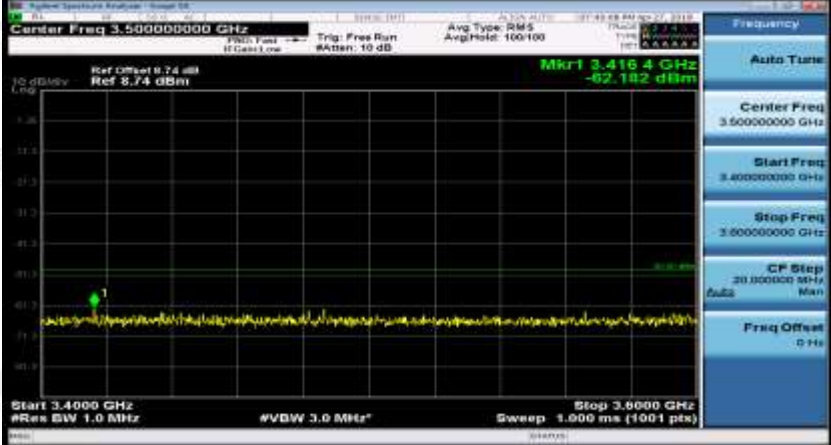
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Co-existence	
Co-existence	
Co-existence	

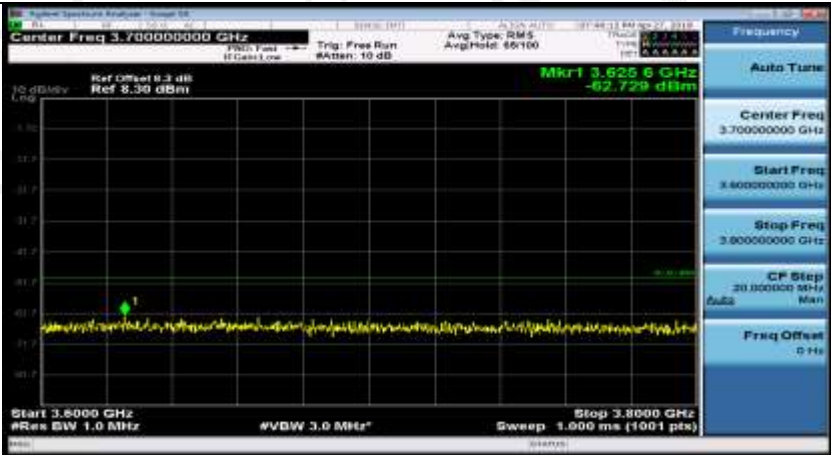
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Co-existence	
Co-existence	
Co-existence	

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Co-existence		
Co-existence		
Co-existence		

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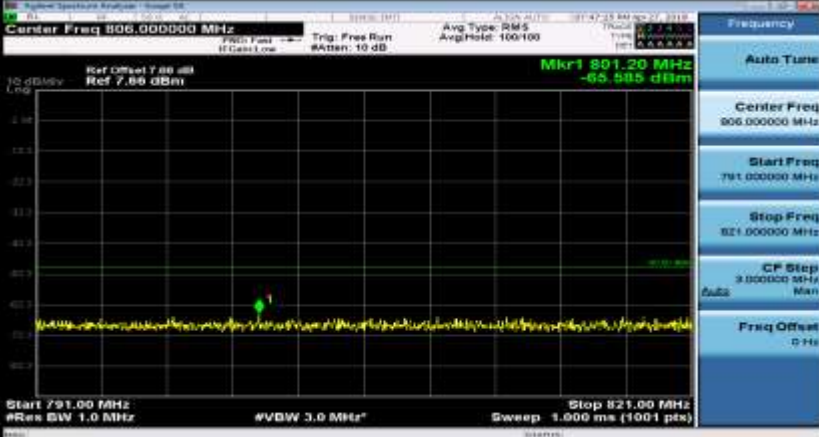
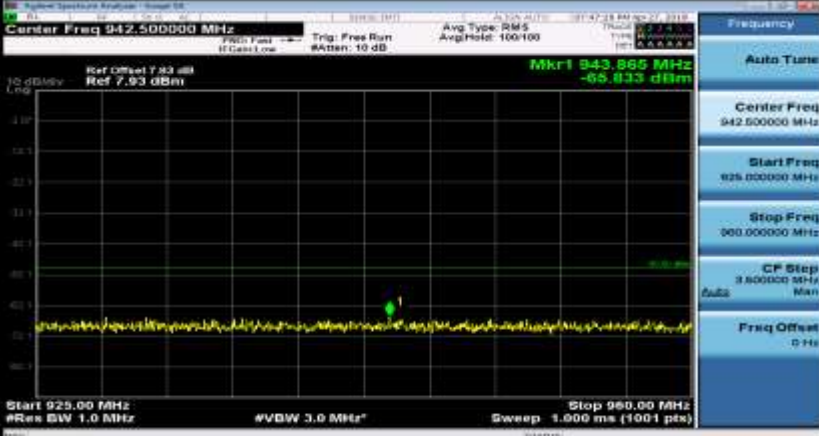
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#0	
General	
General	

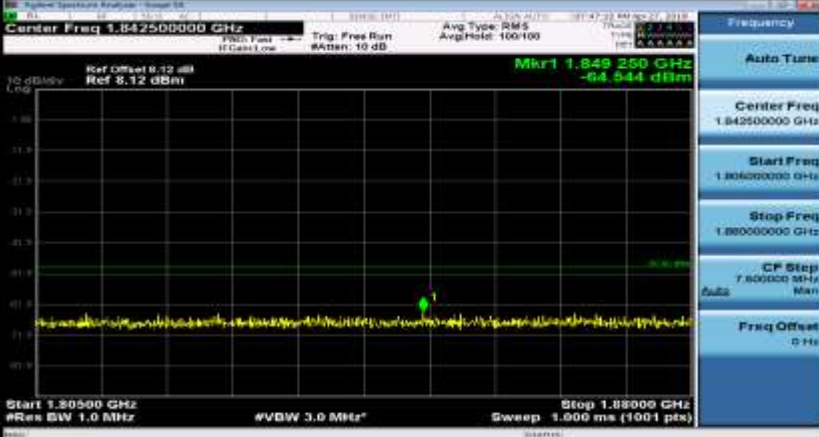
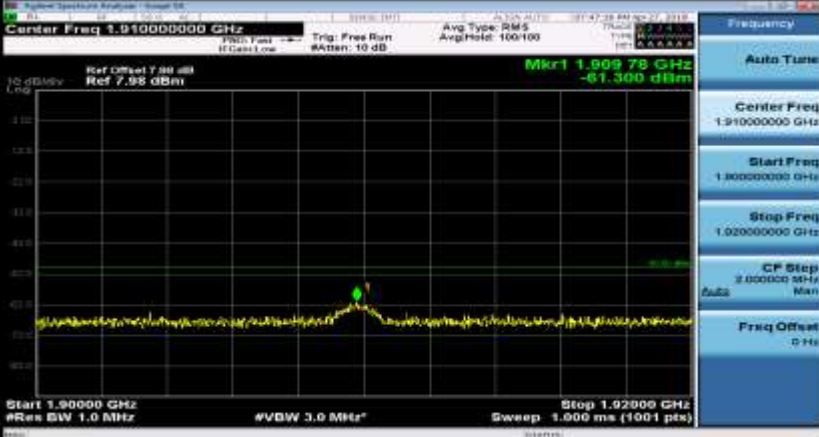

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General			
General			
General			

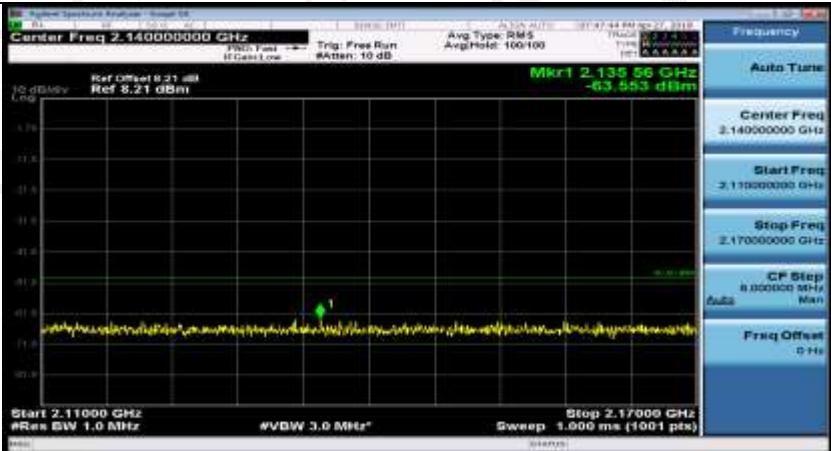
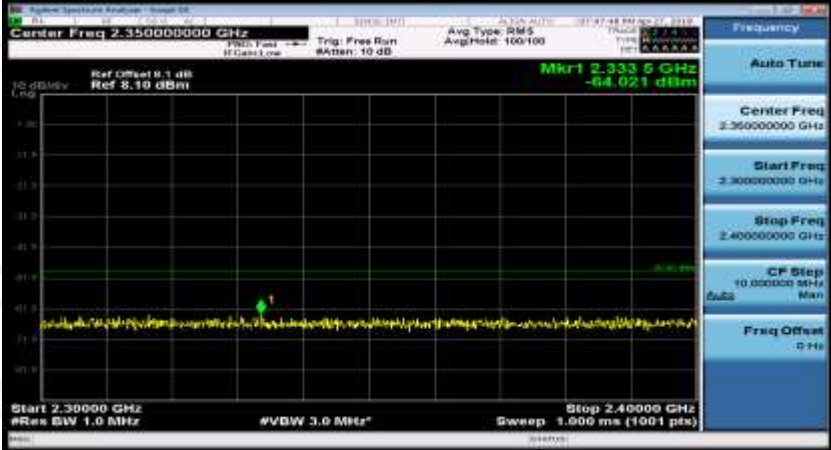
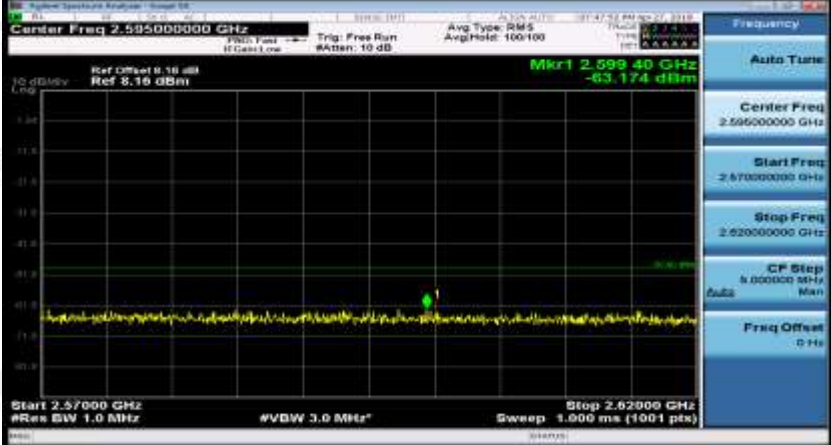
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General			
Co-existence			
Co-existence			

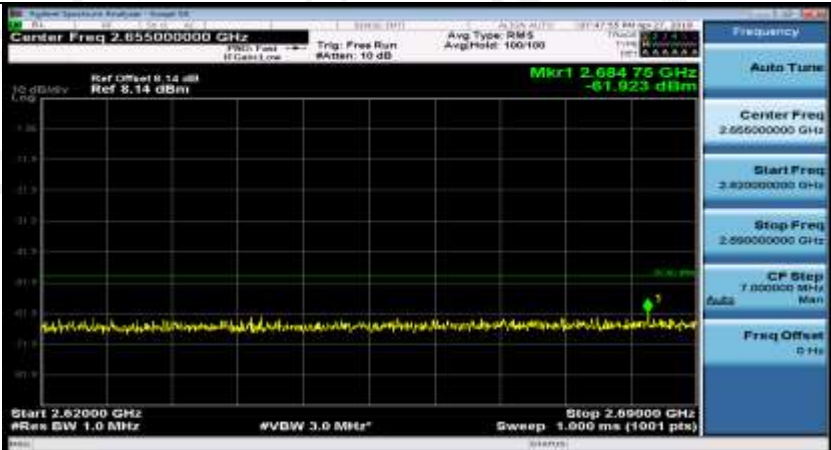
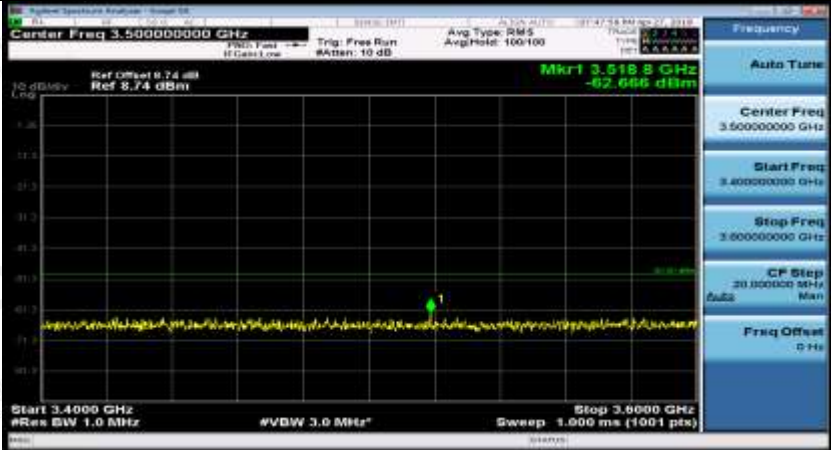
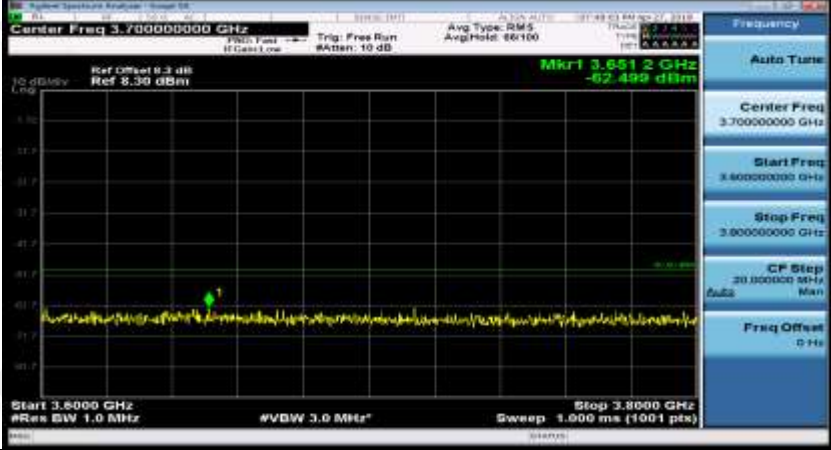
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Co-existence			
Co-existence			
Co-existence			

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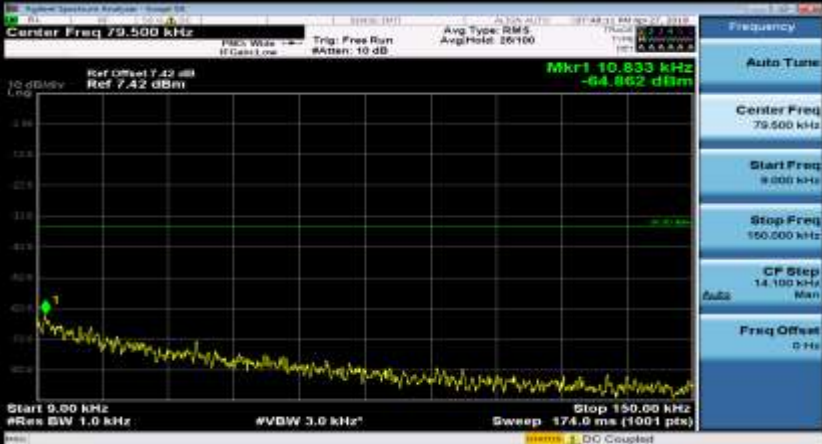

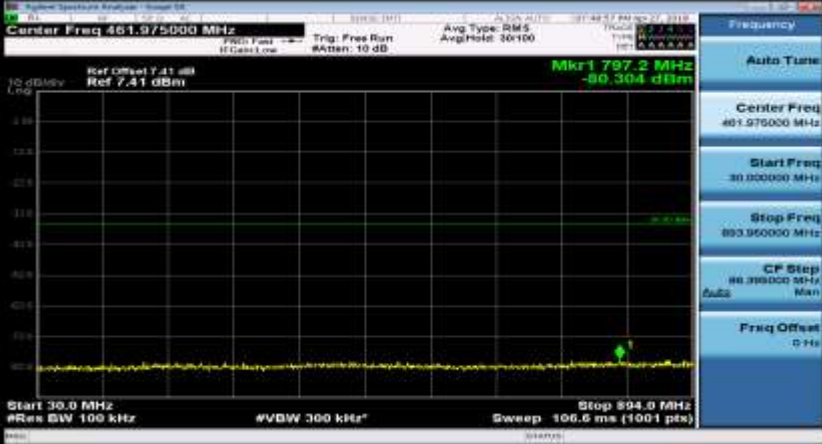
Co-existence	
Co-existence	
Co-existence	

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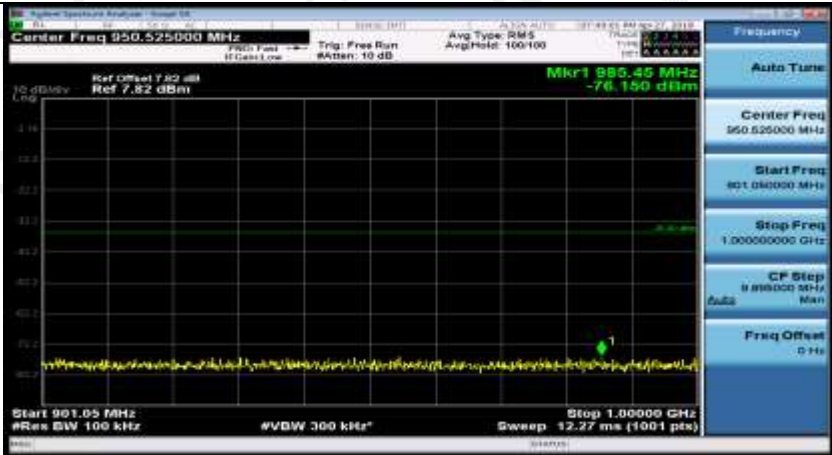

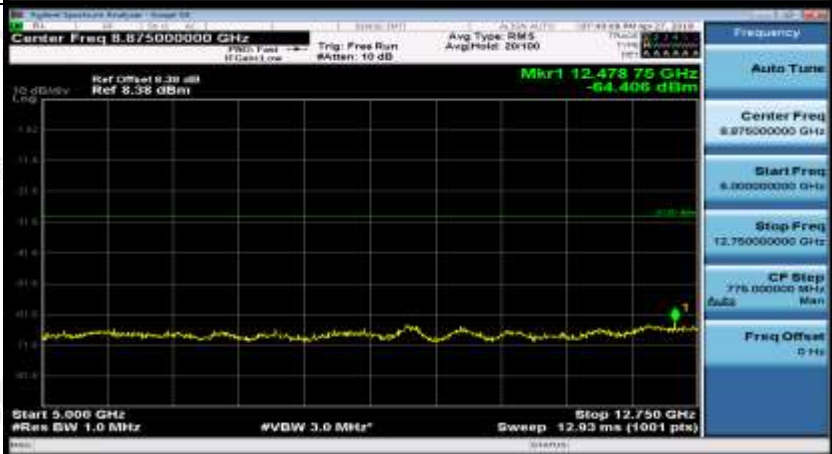
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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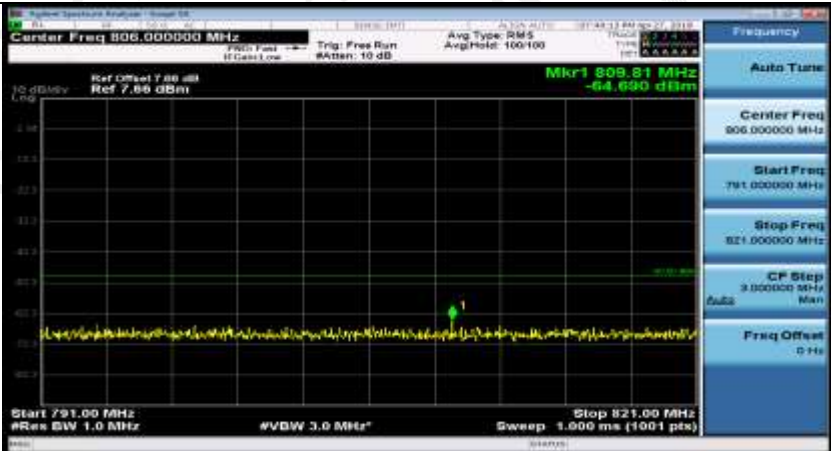
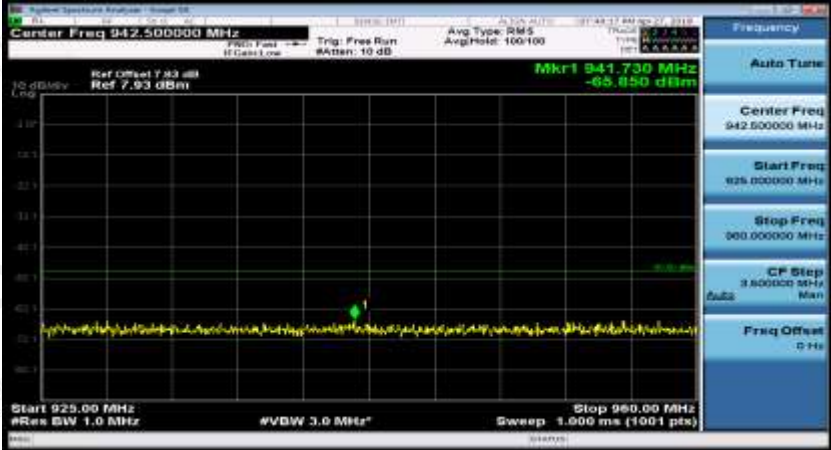
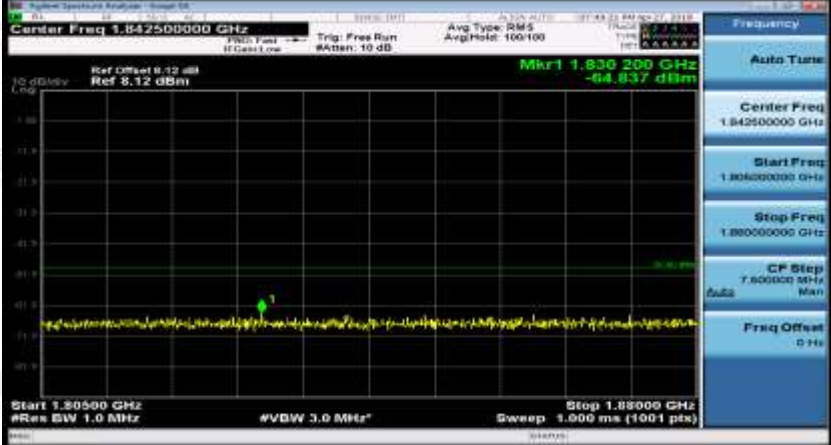
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#max

General		
General		
General		

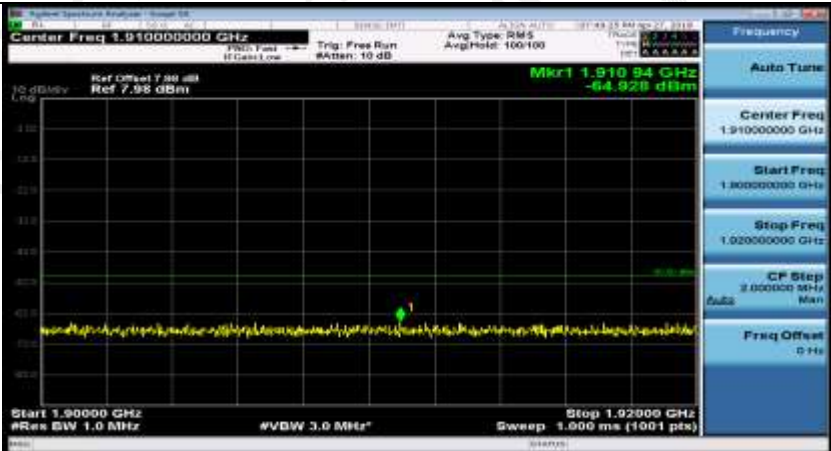
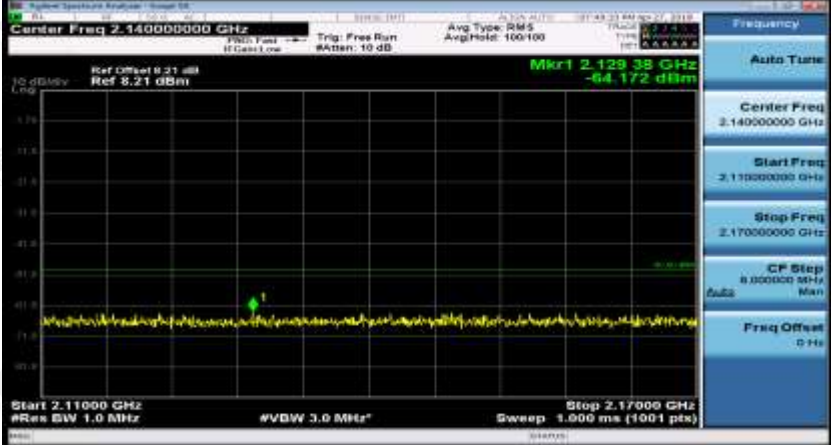
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General			
General			
General			

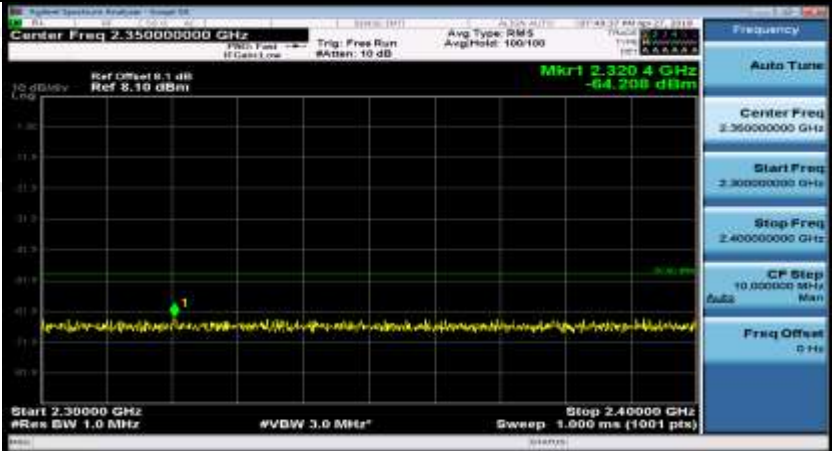
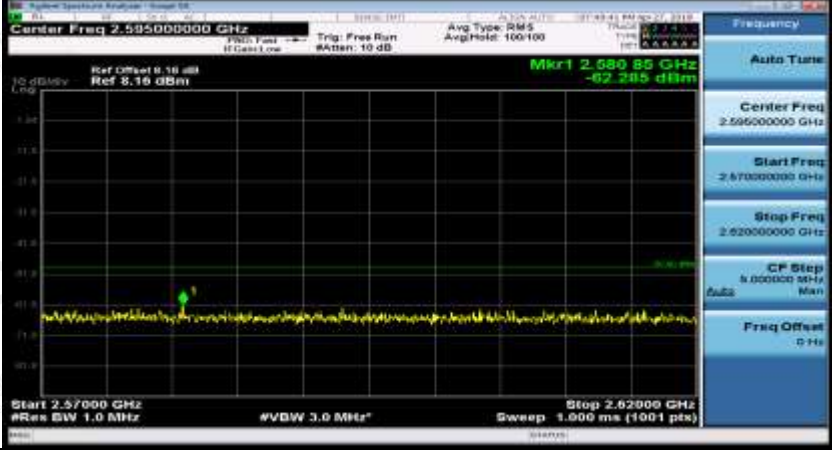
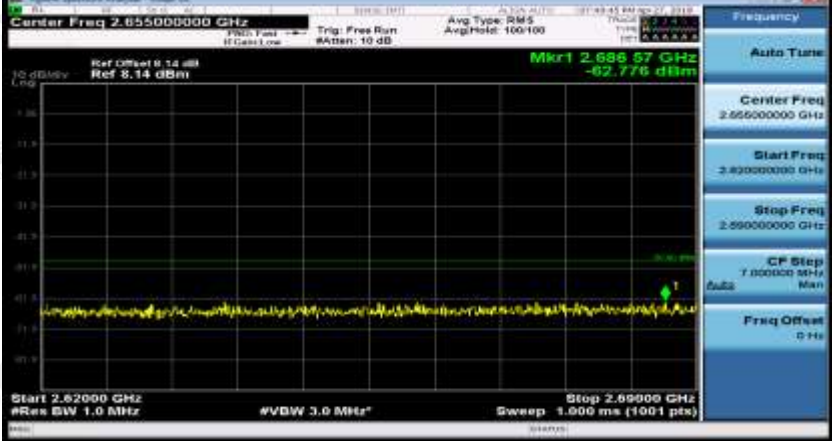
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Co-existence	
Co-existence	
Co-existence	


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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

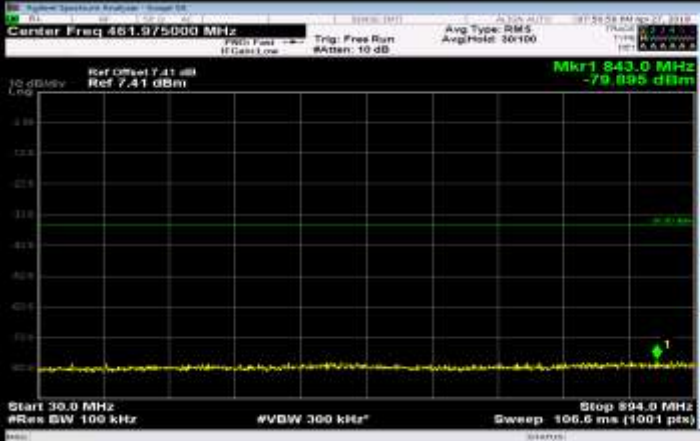
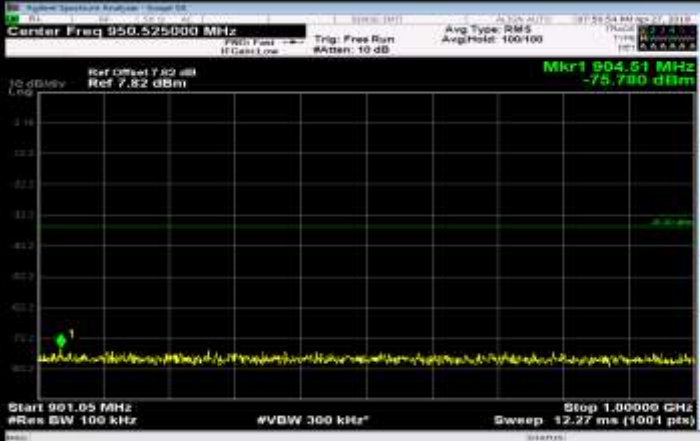
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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullIRB#0

General	
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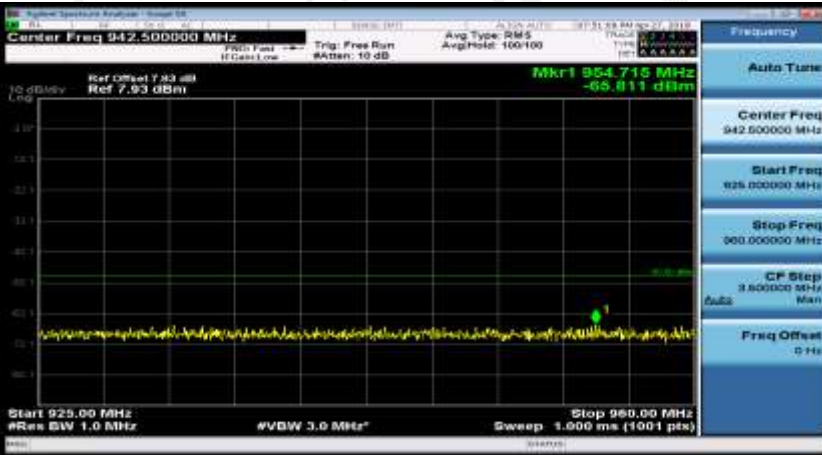
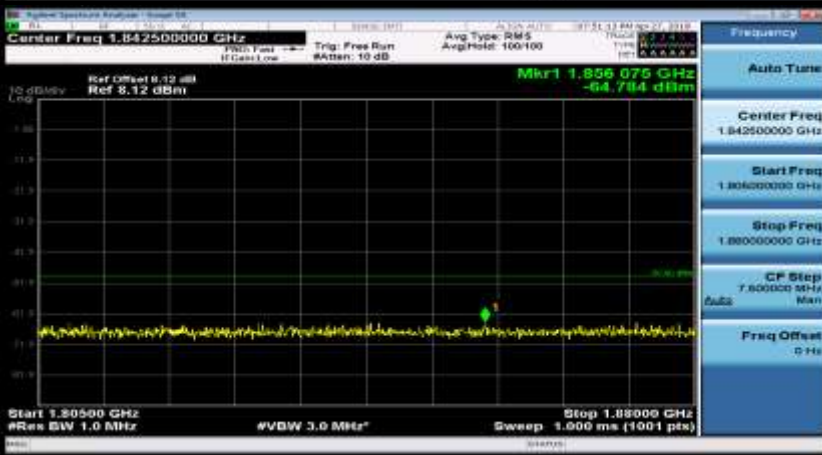
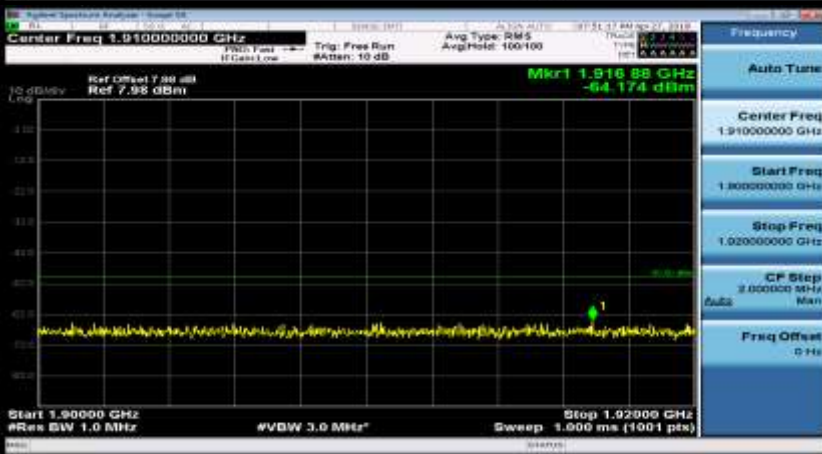
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General			
General			
General			

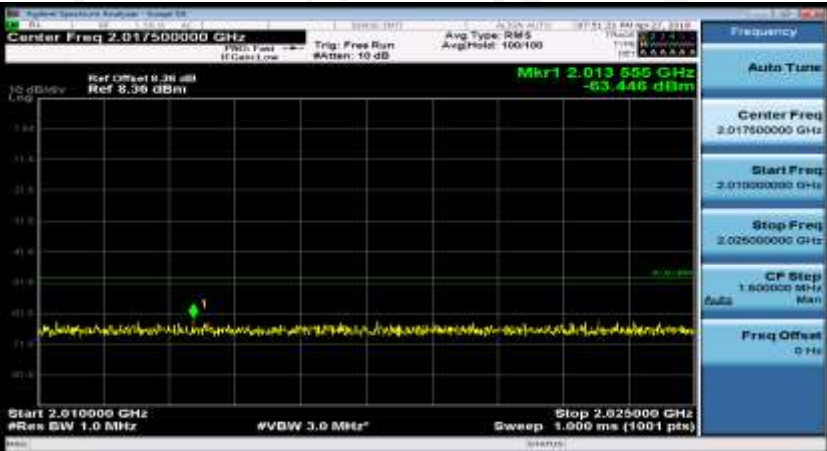
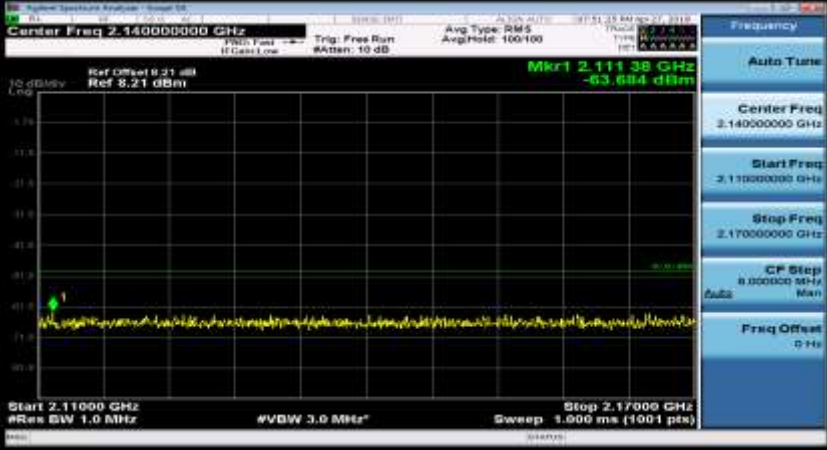
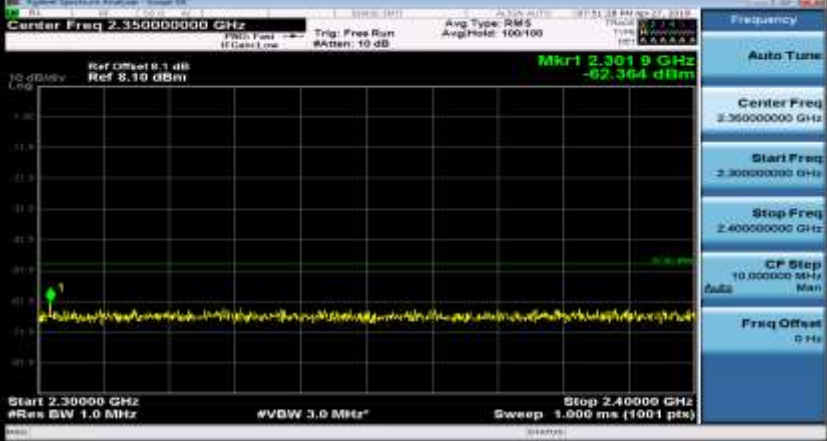
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General			
General			
Co-existence			

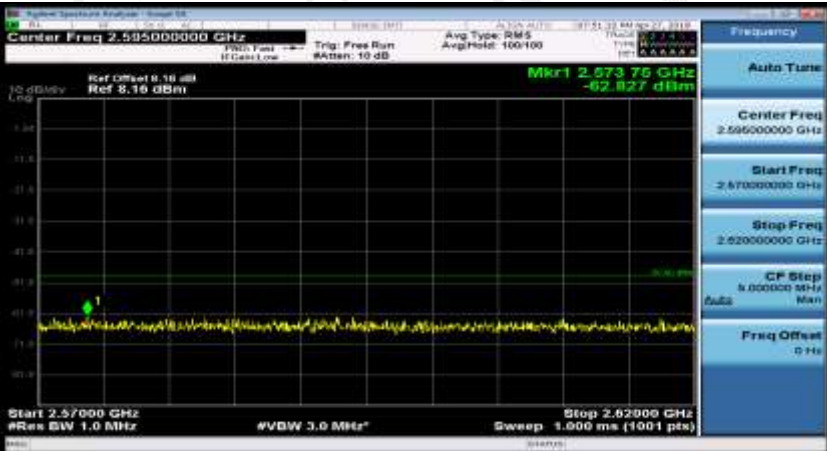
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Co-existence			
Co-existence			
Co-existence			

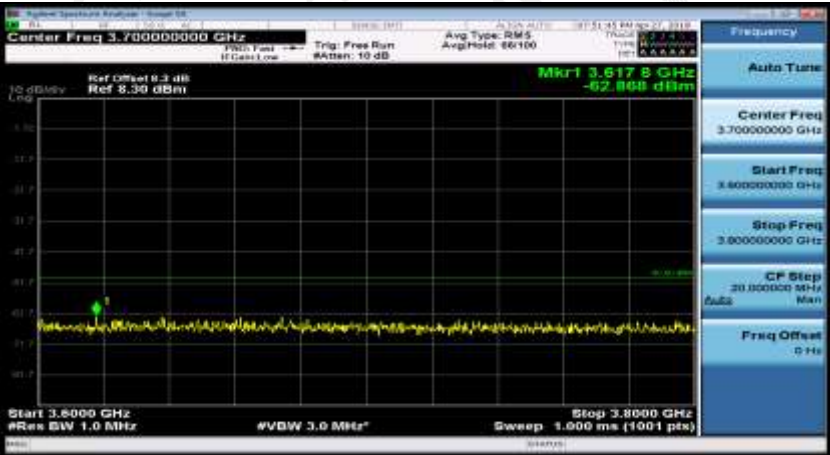
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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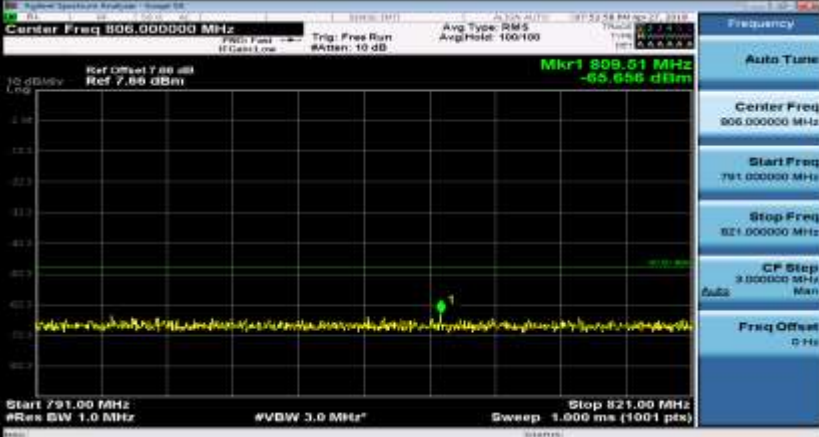
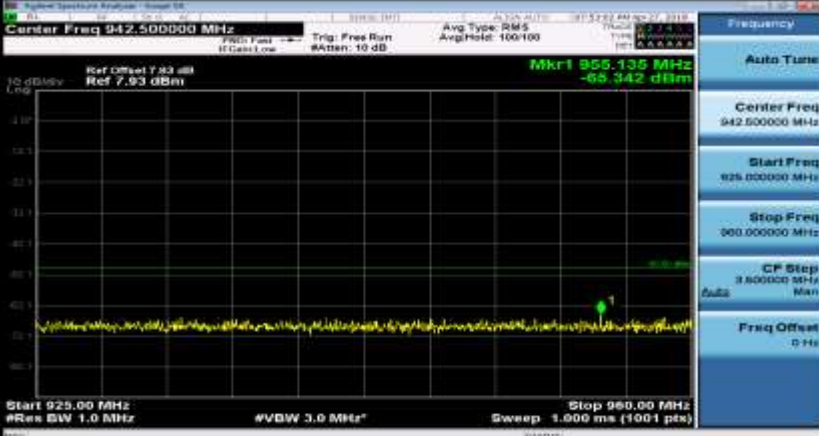
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#0	
General	
General	

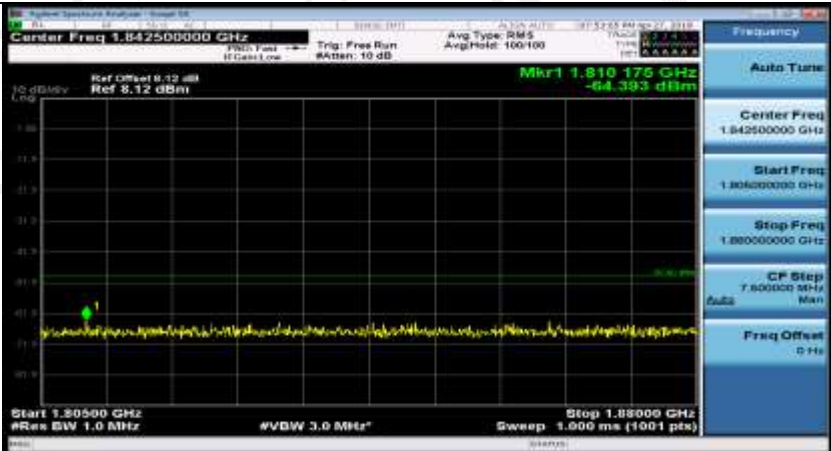
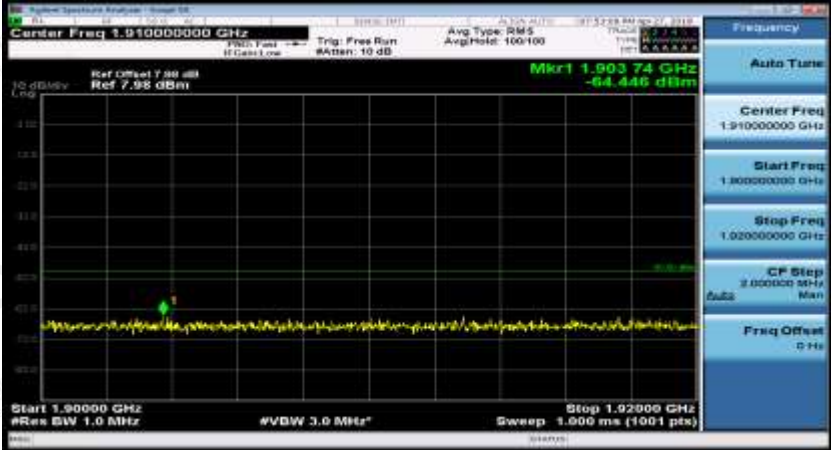
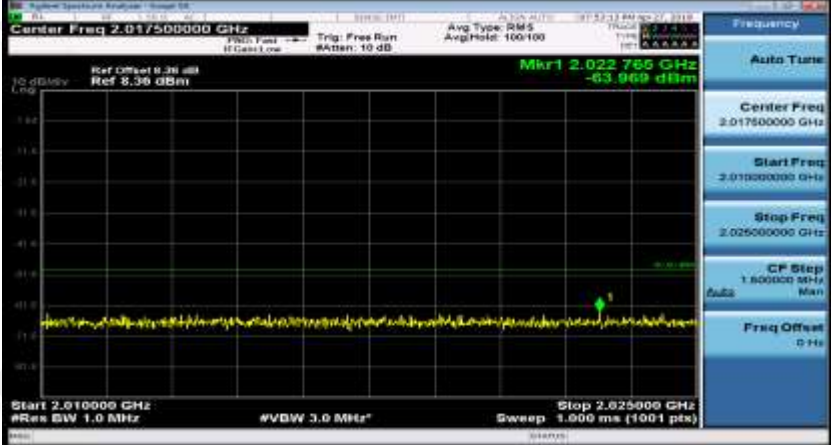
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General			
General			
General			

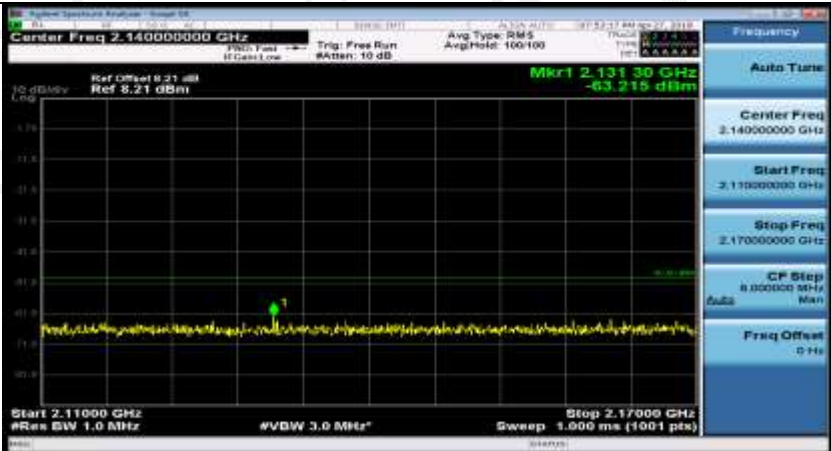

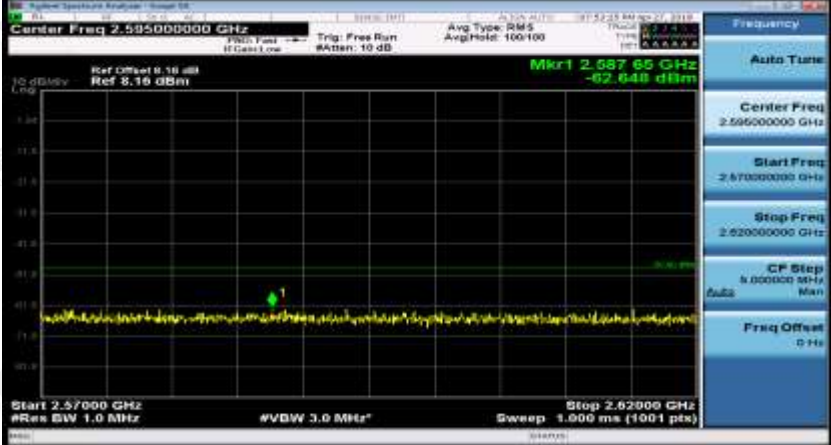
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General			
Co-existence			
Co-existence			

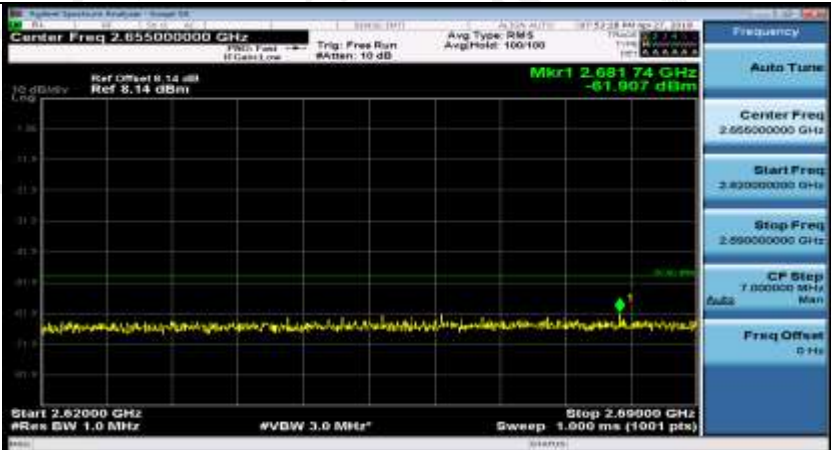
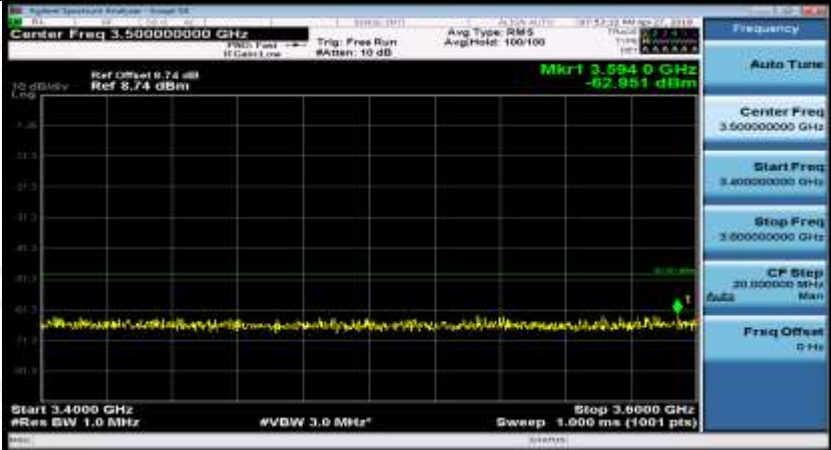
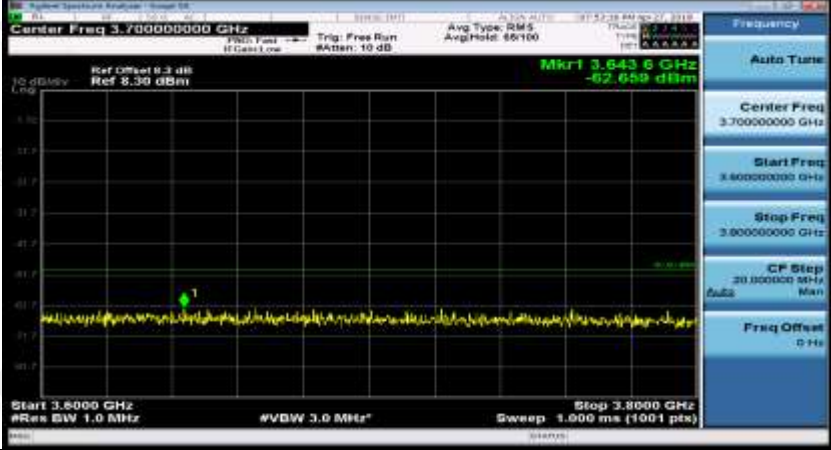
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Co-existence	
Co-existence	
Co-existence	



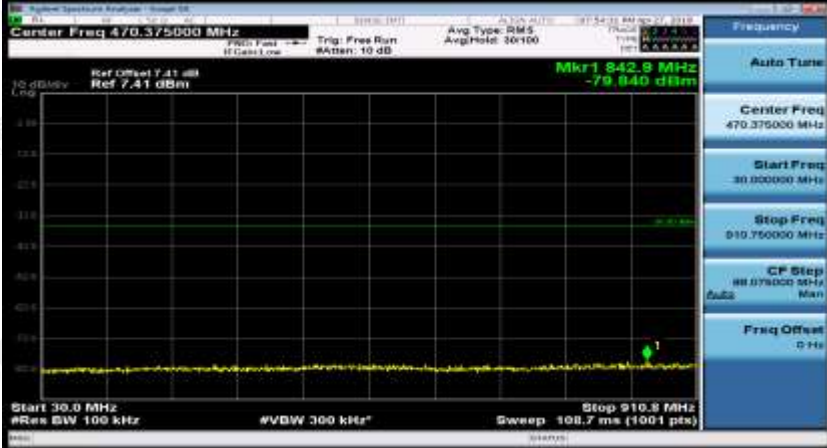
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Co-existence	
Co-existence	
Co-existence	

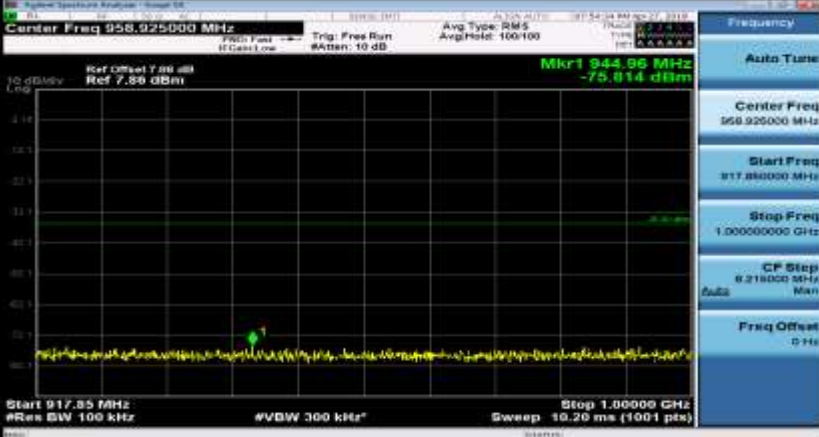
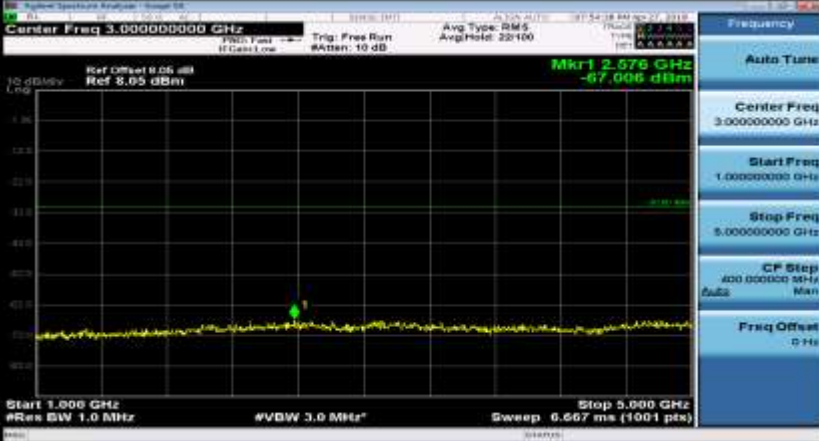

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

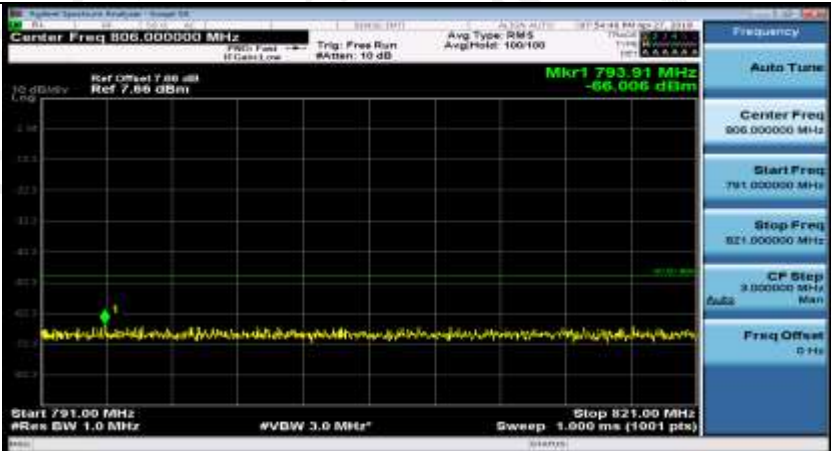
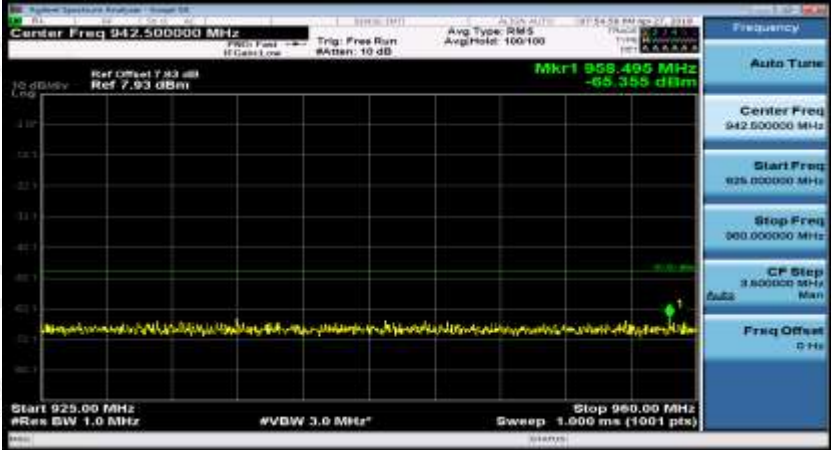
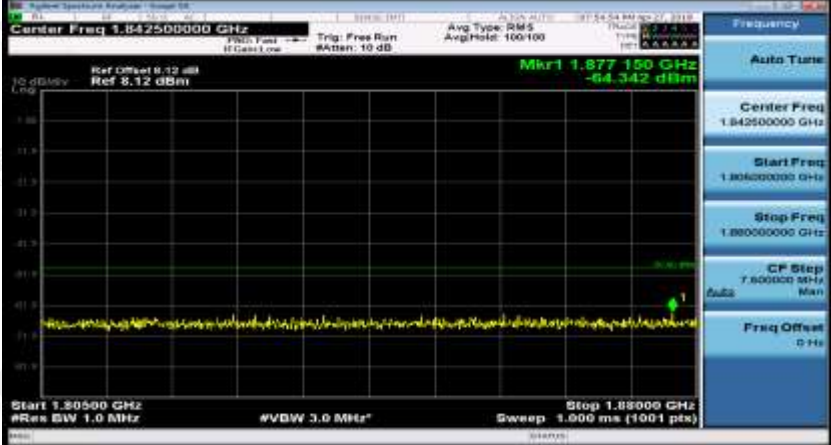
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Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#max	
General	
General	
General	

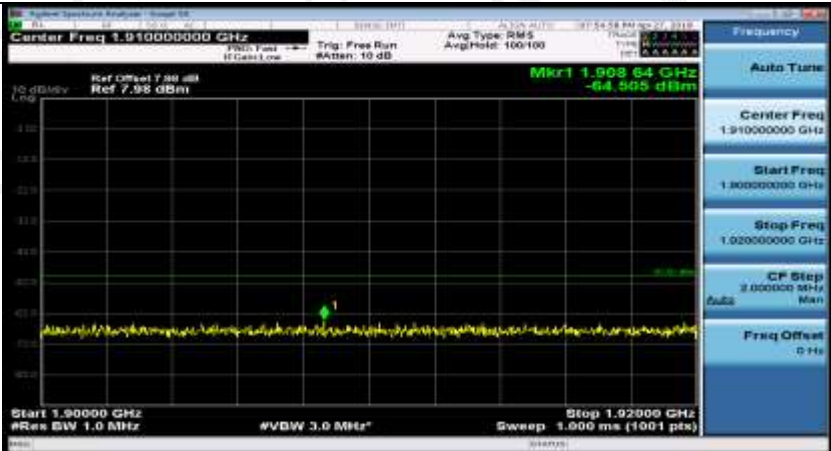
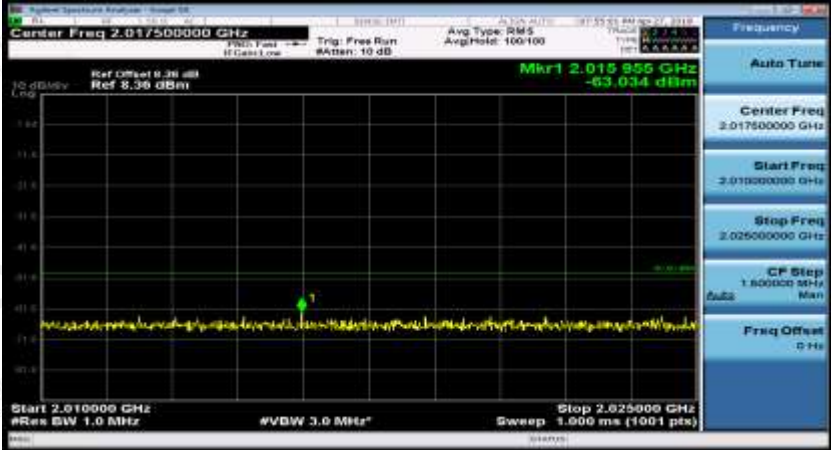
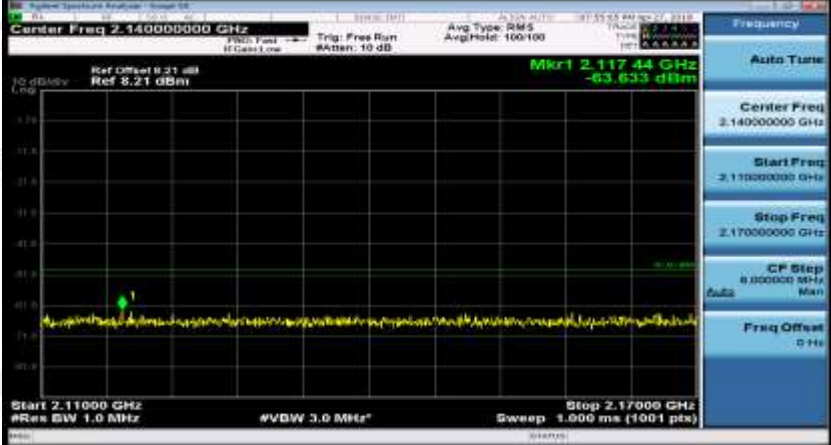
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General			
General			
General			

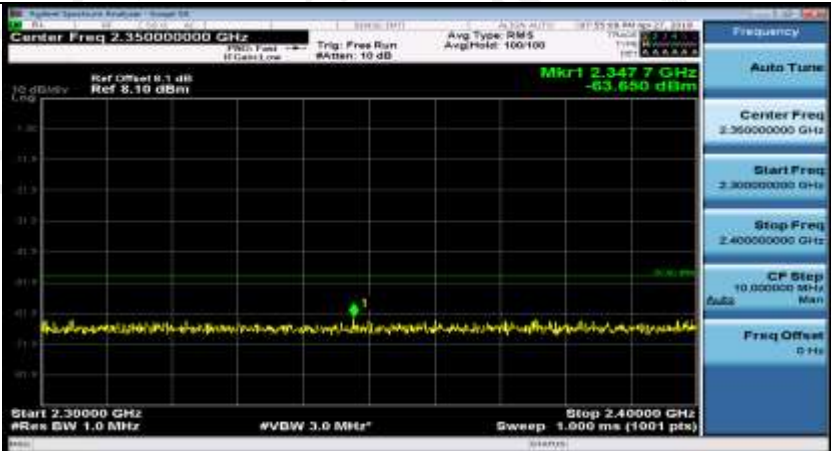
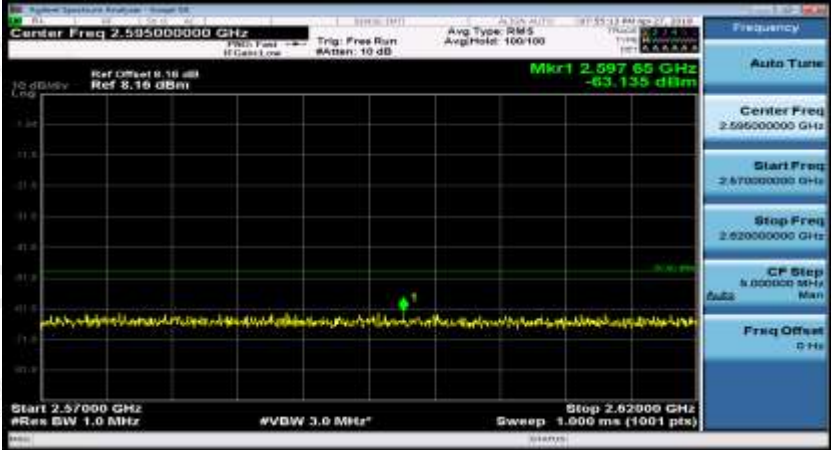
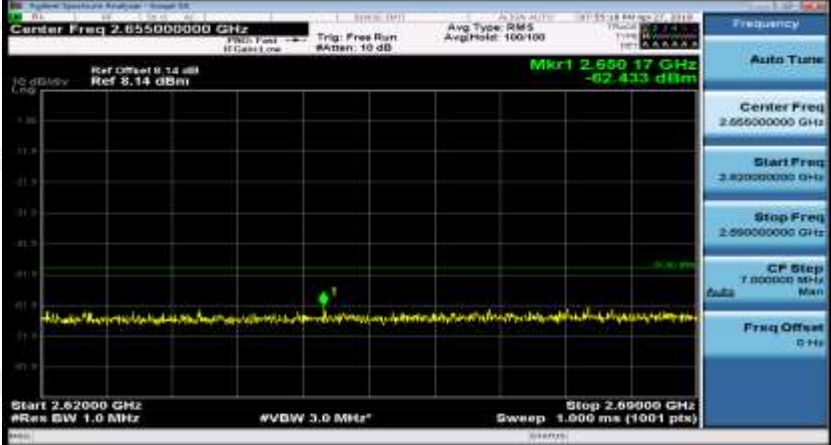
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Co-existence	
Co-existence	
Co-existence	

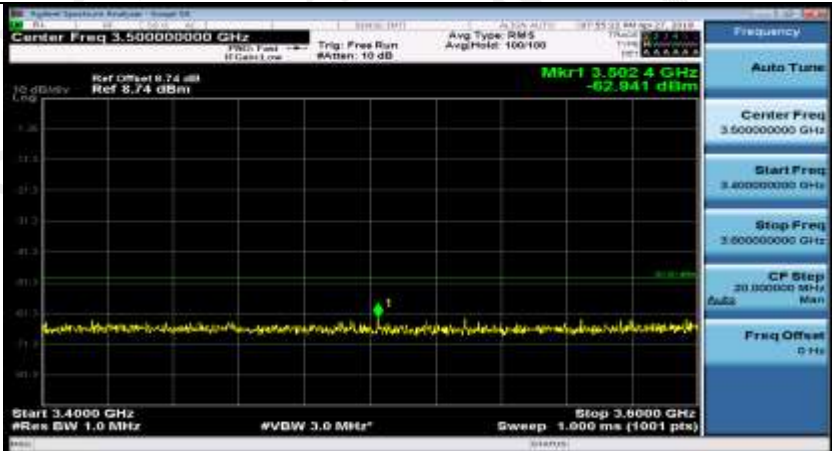
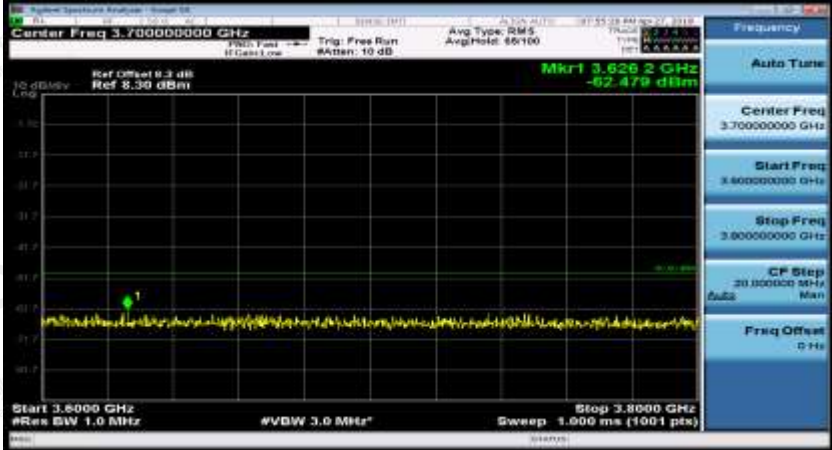
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

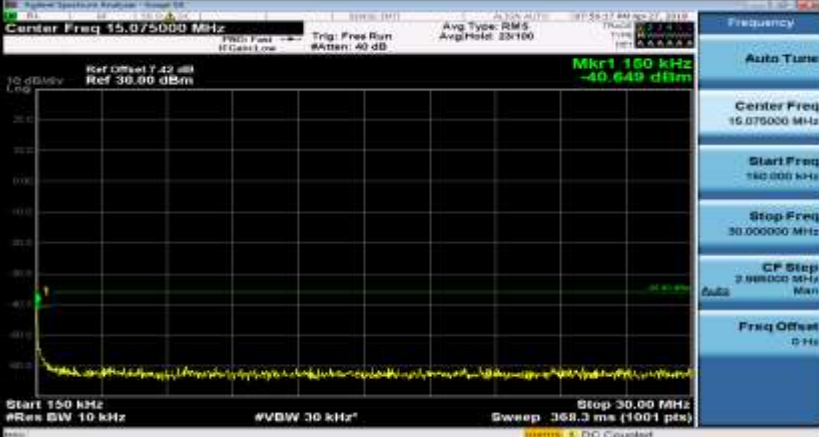
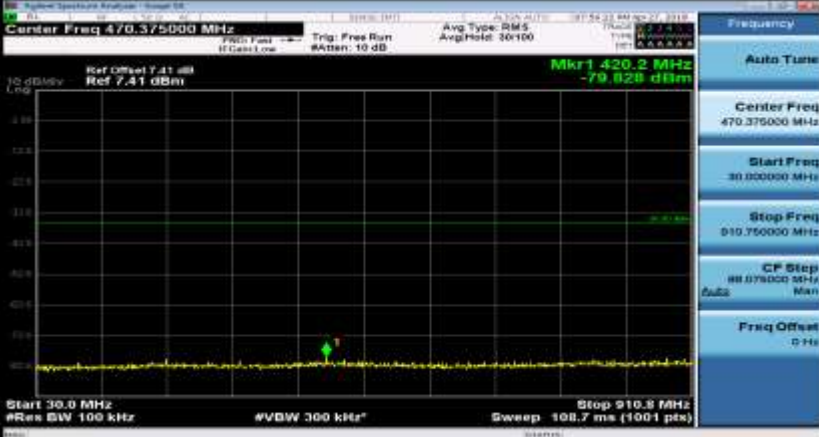
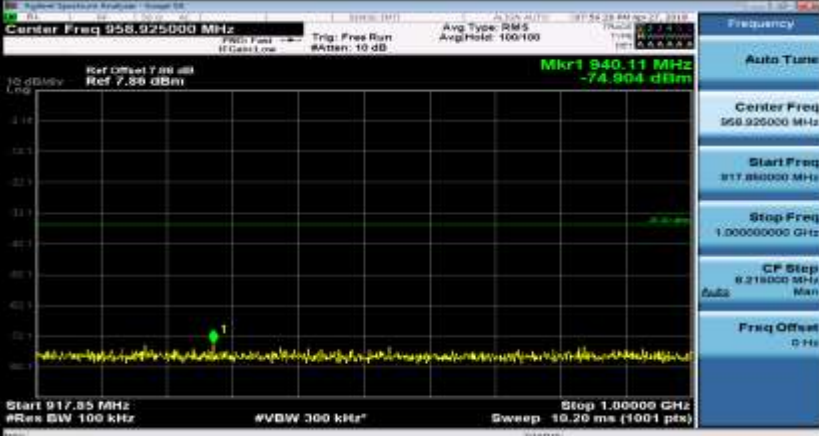
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Co-existence	
Co-existence	
Additional	NA

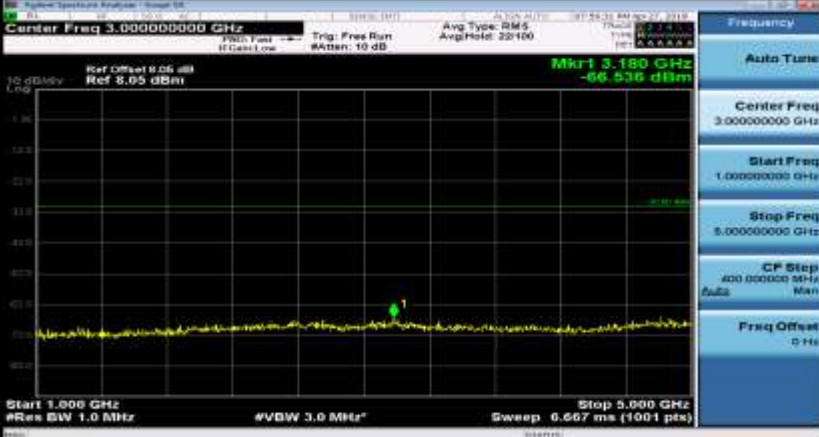


Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullIRB#0

General	
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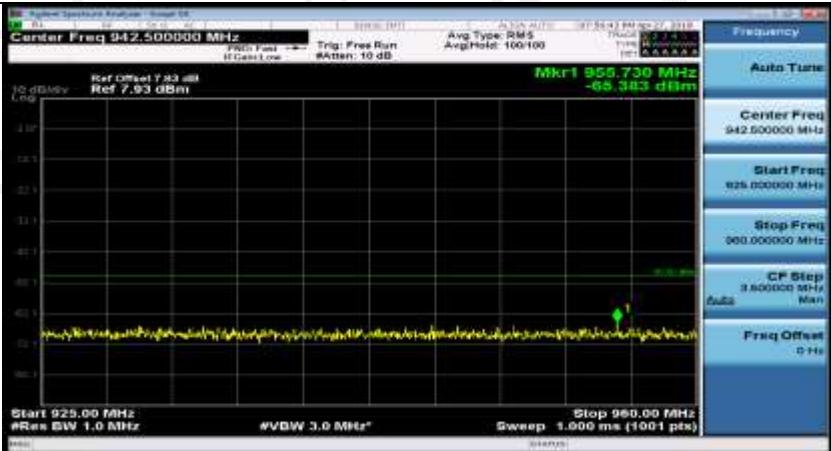
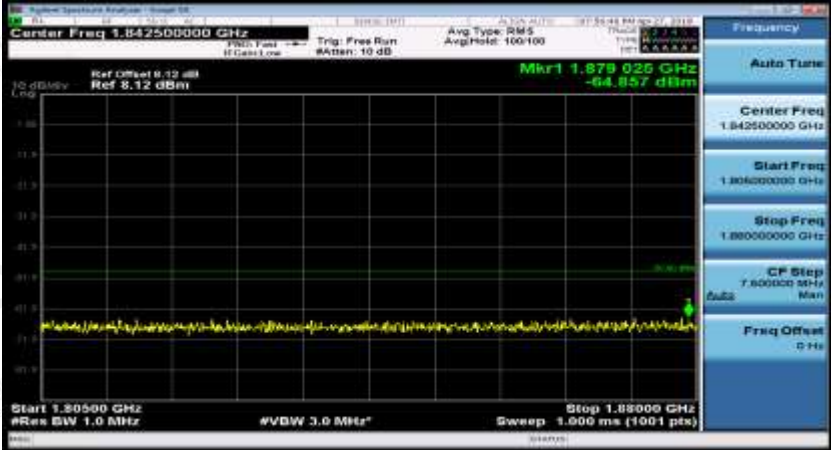
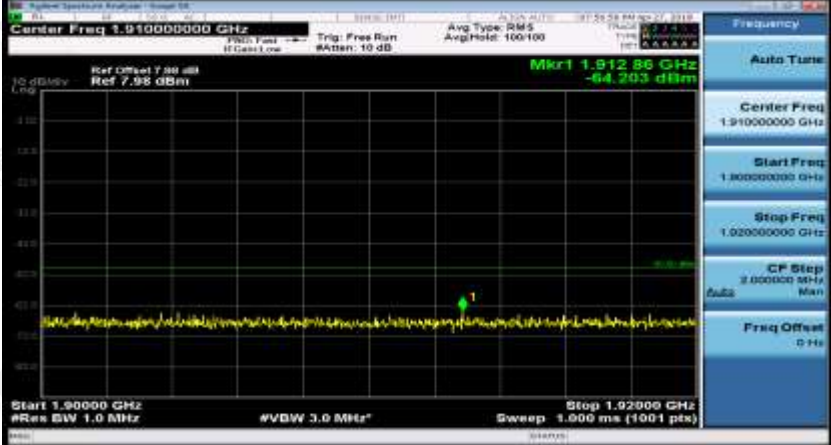
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General			
General			
General			

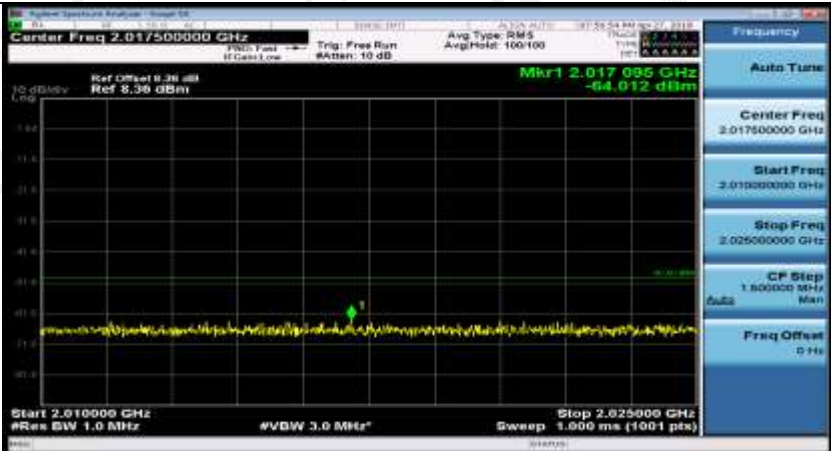

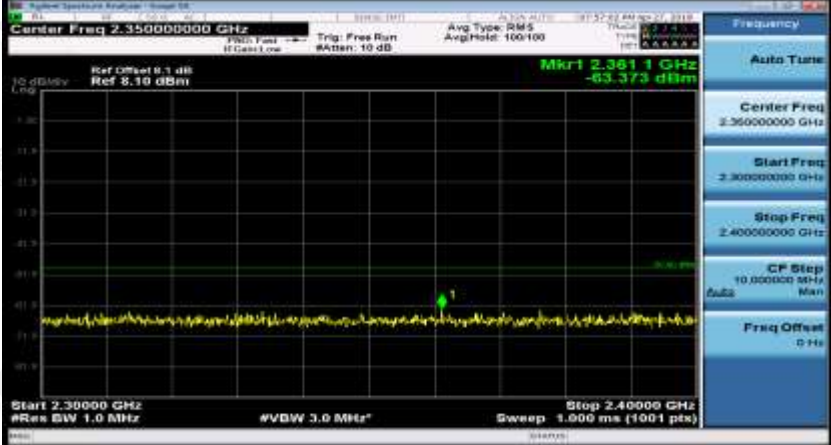
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General			
General			
Co-existence			

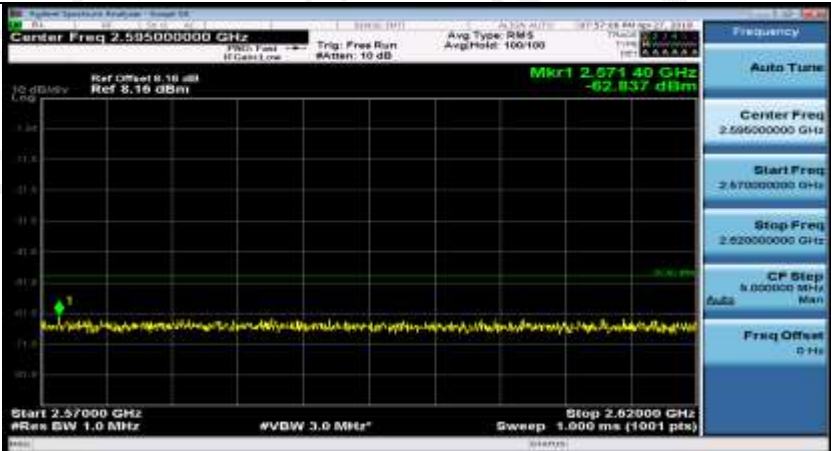
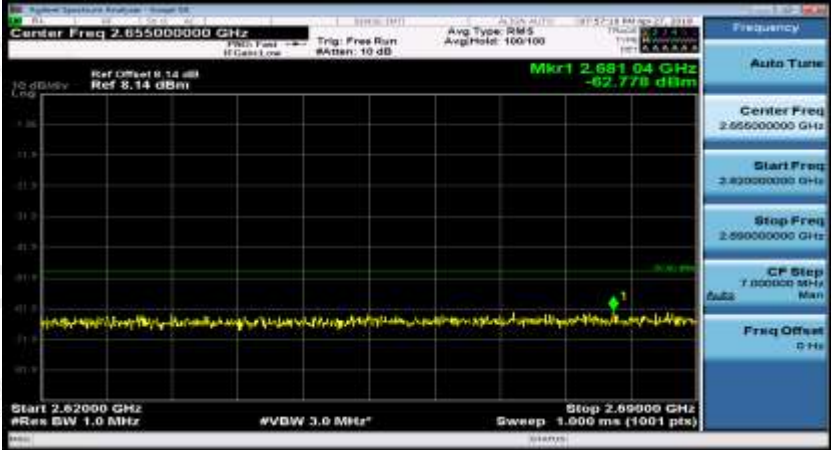
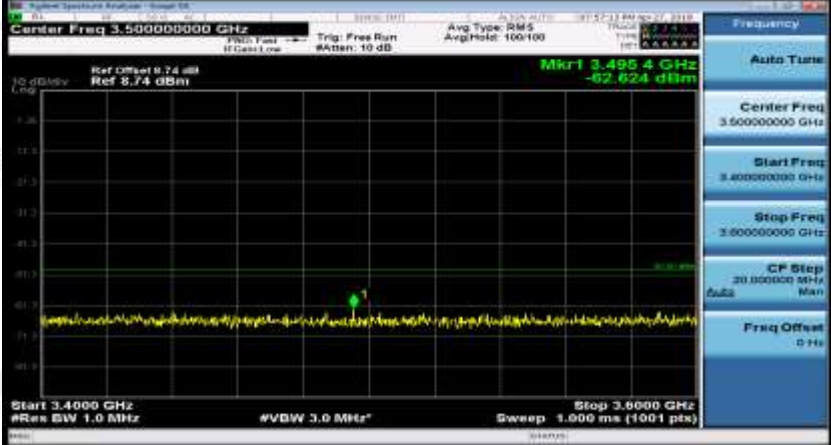
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Co-existence	
Co-existence	
Co-existence	

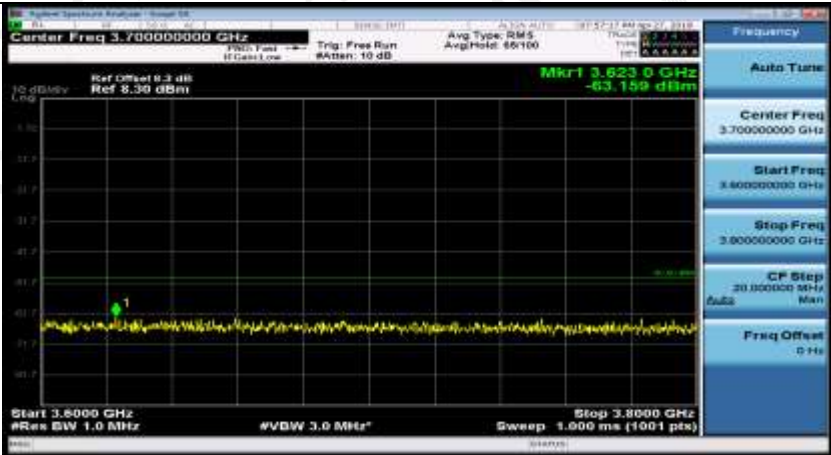
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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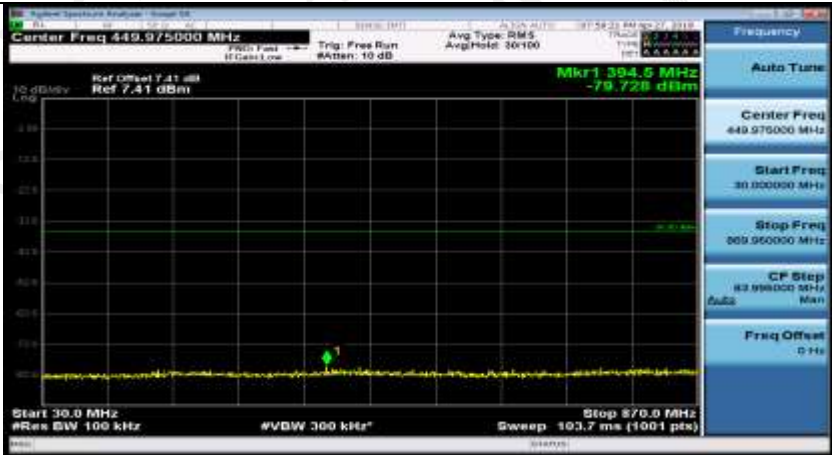
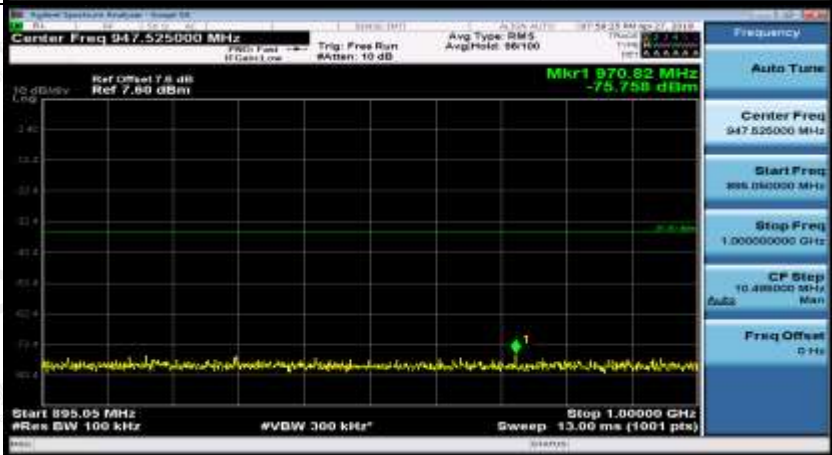
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)

Channel Bandwidth=(5 MHz)_QPSK_LCH_1RB#0

General	
General	

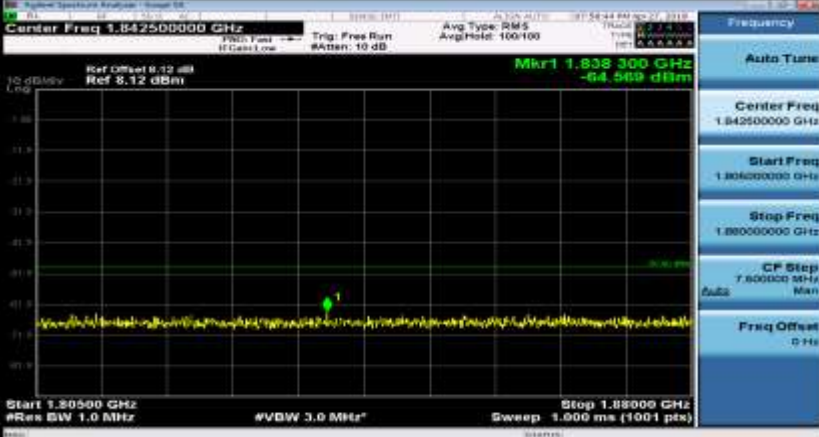
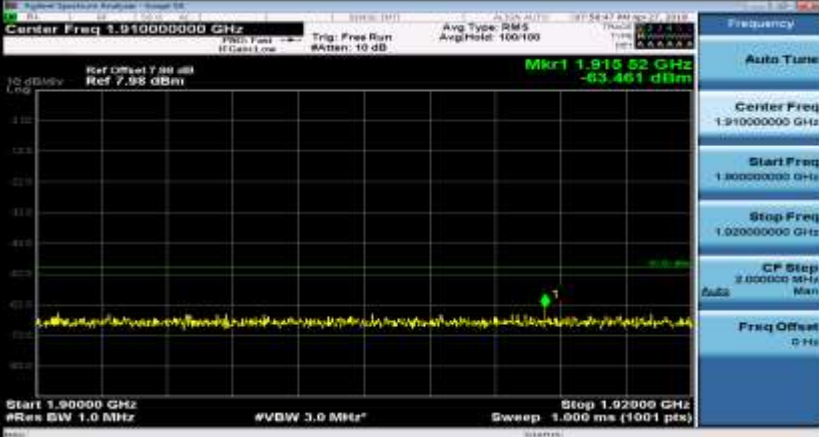

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General			
General			
General			


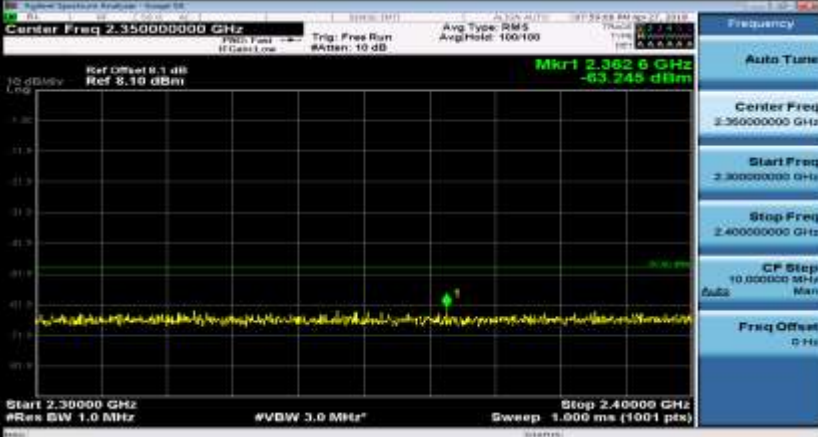

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General			
Co-existence			
Co-existence			

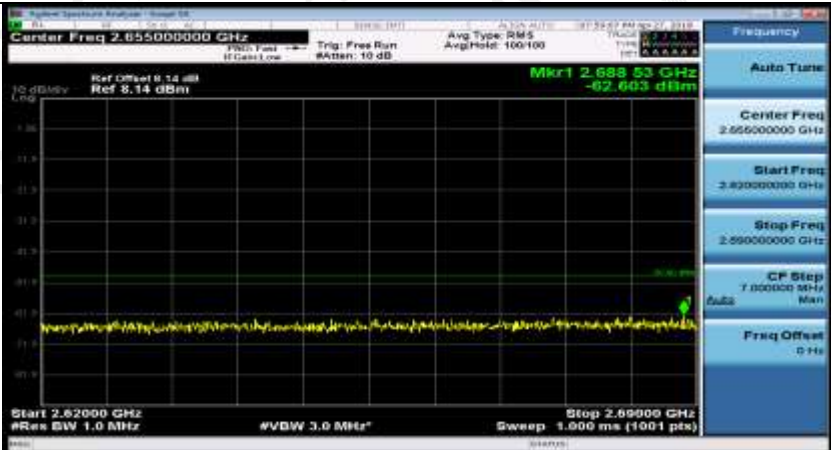
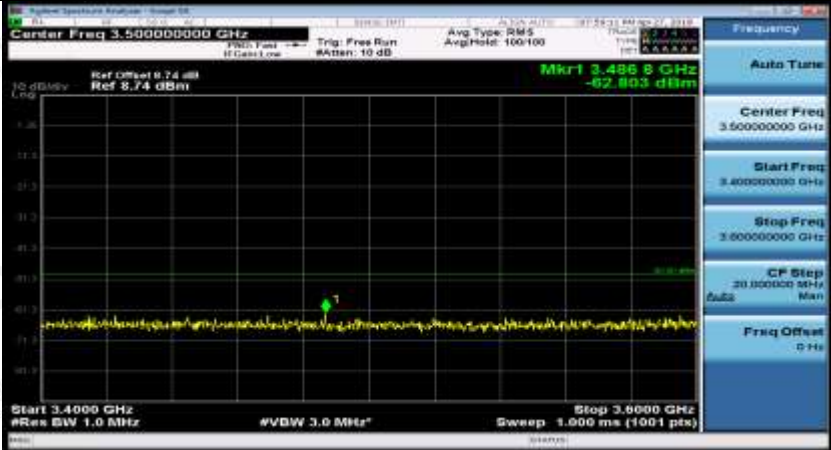
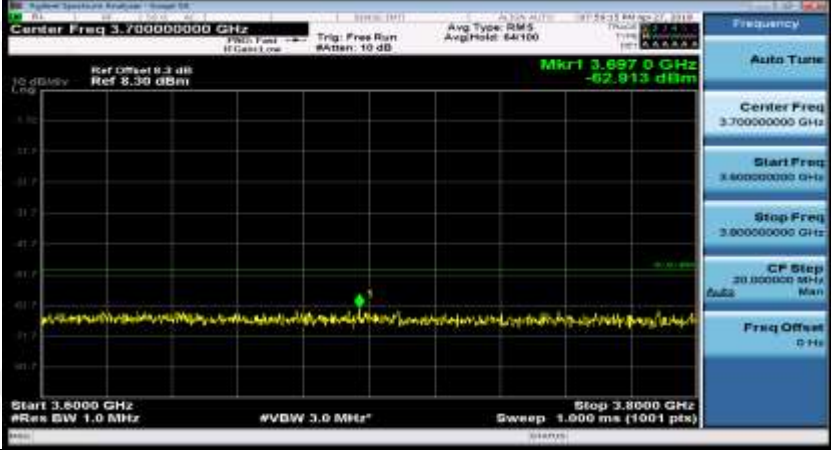
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Co-existence			
Co-existence			
Co-existence			

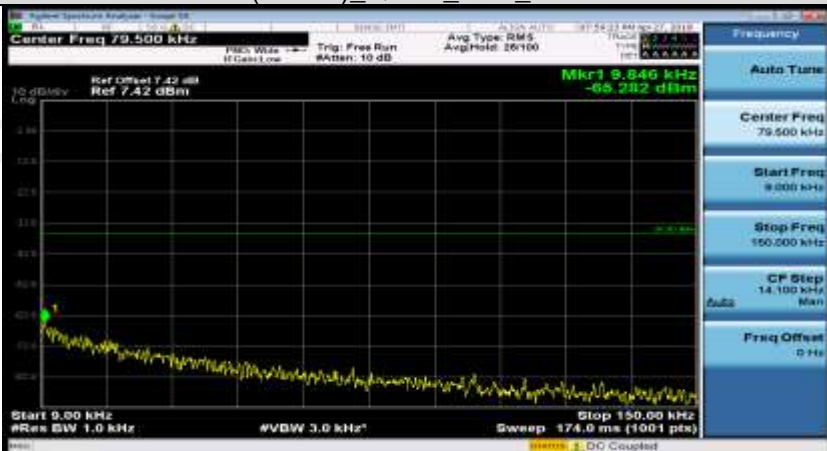

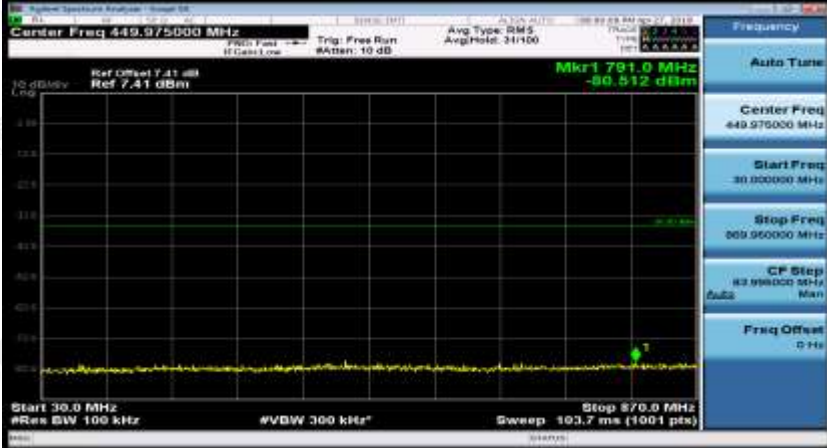
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Co-existence			
Co-existence			
Co-existence			

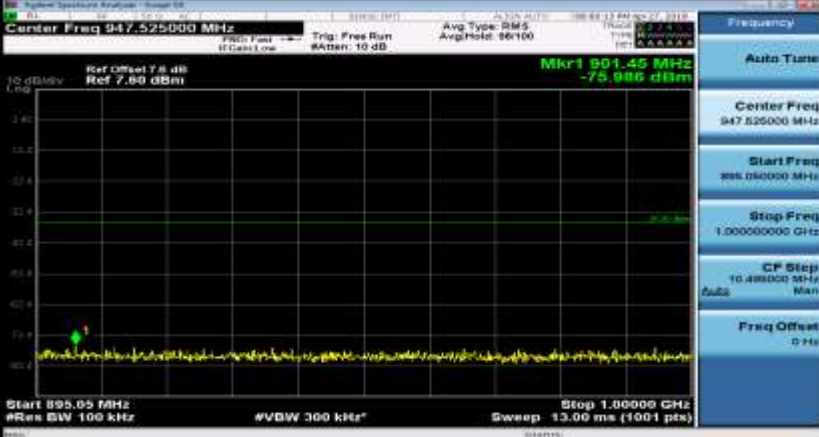


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Co-existence	
Co-existence	
Co-existence	
Additional	NA

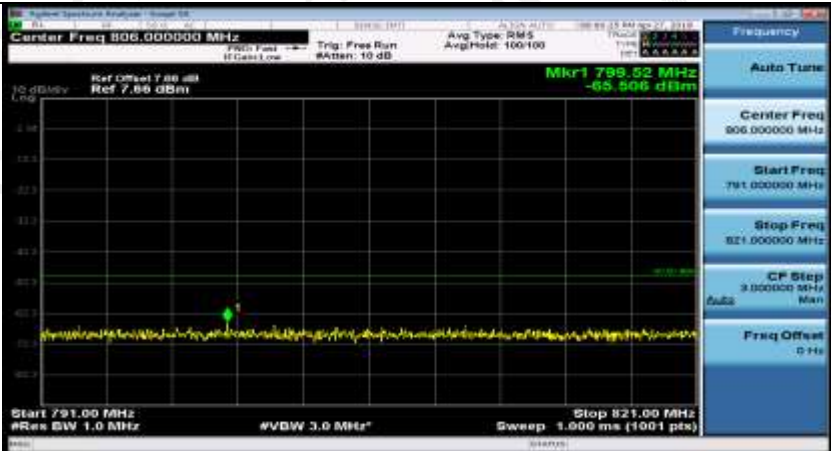
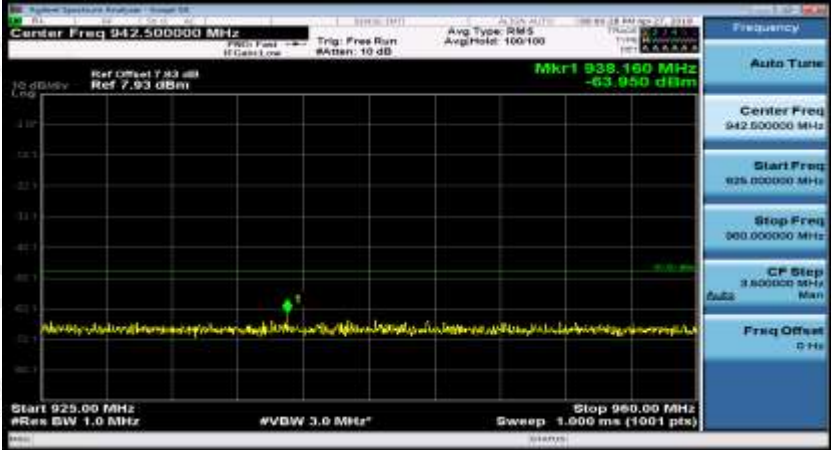
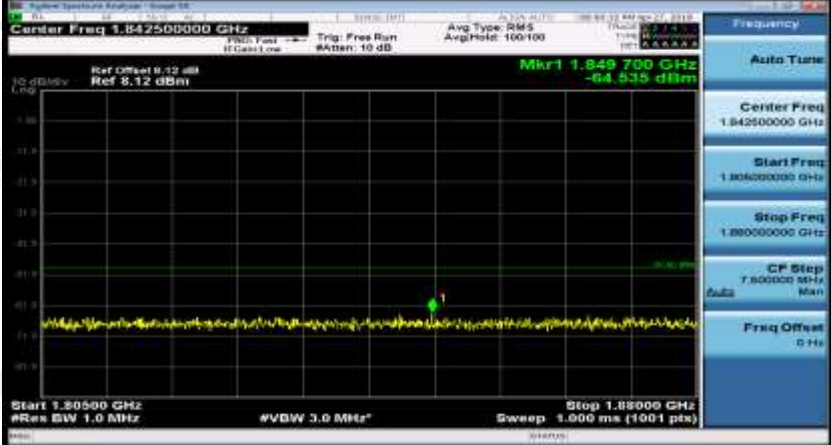
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Channel Bandwidth= (5 MHz)_QPSK_LCH_1RB#max		
General		
General		
General		

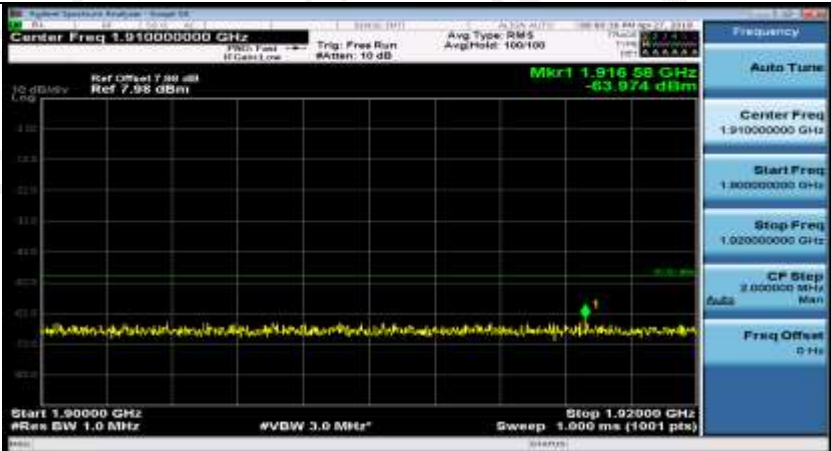
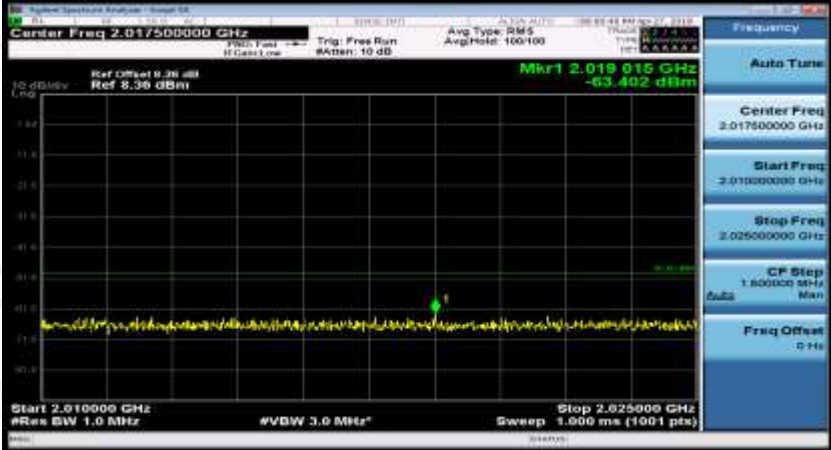
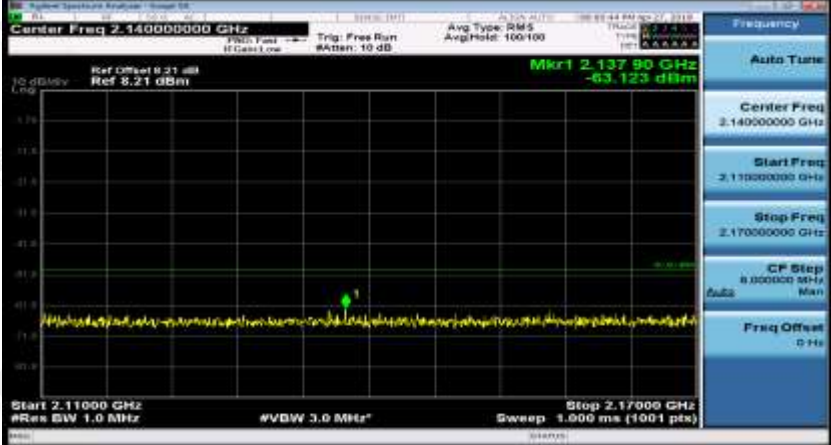
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

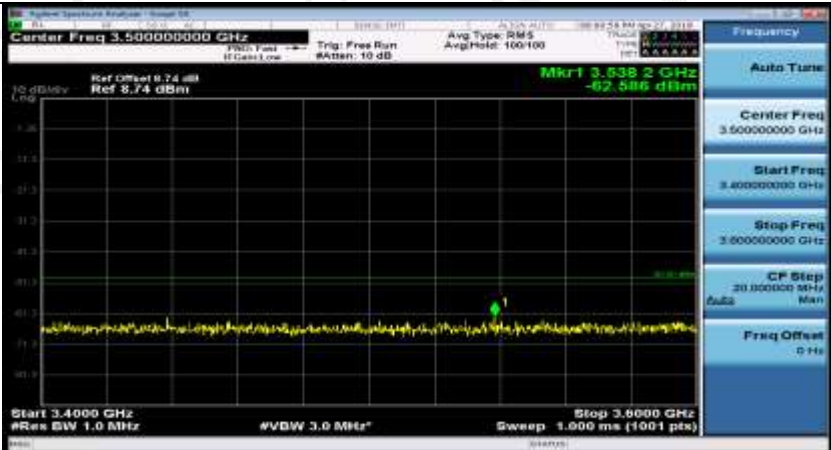
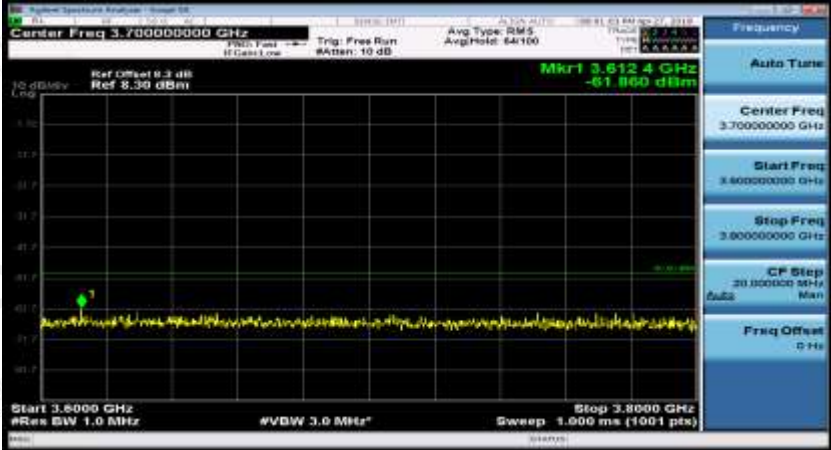
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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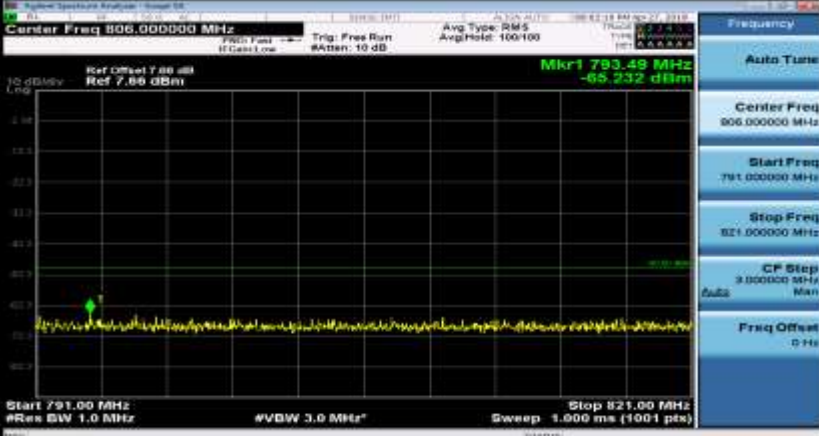
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_LCH_FullRB#0	
General	

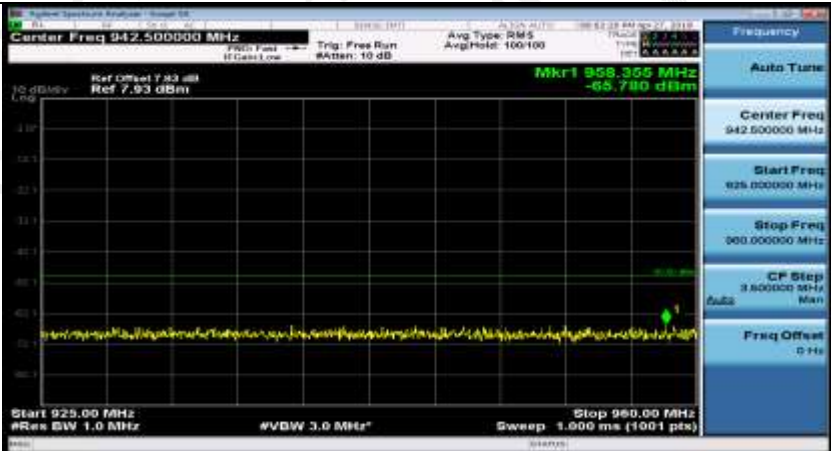
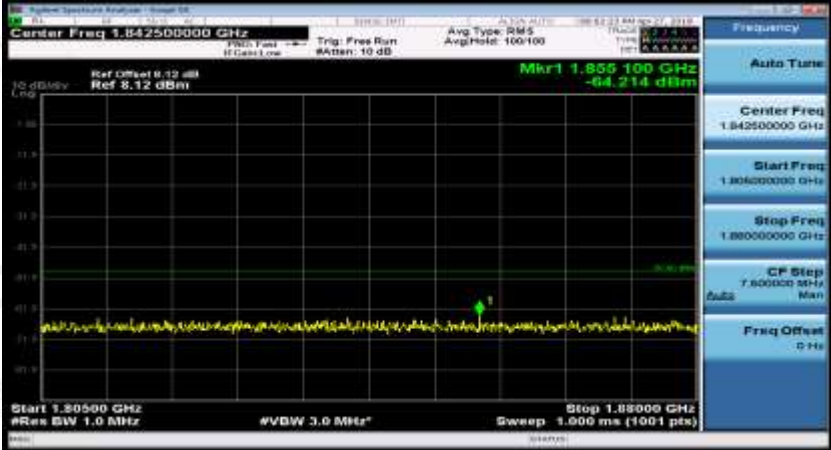
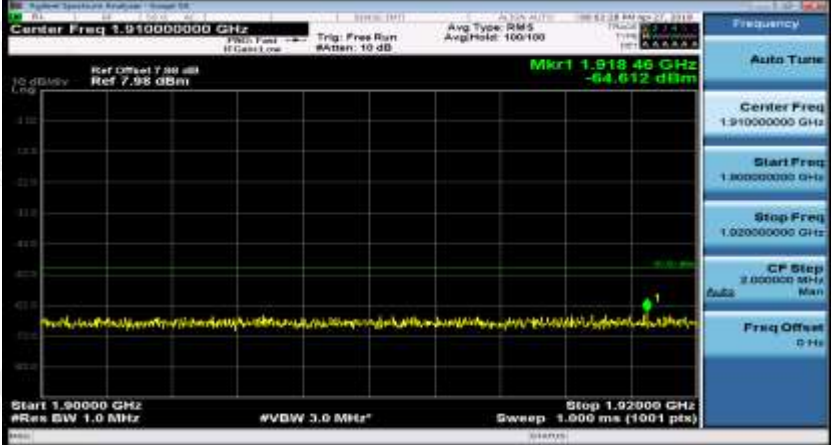
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General			
General			
General			

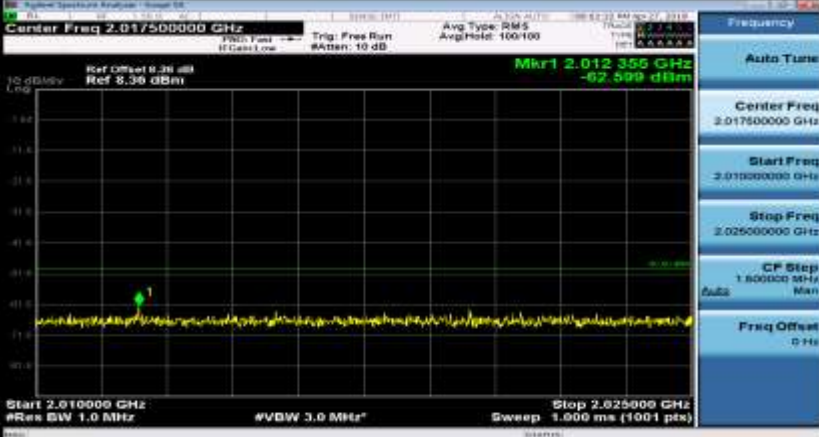
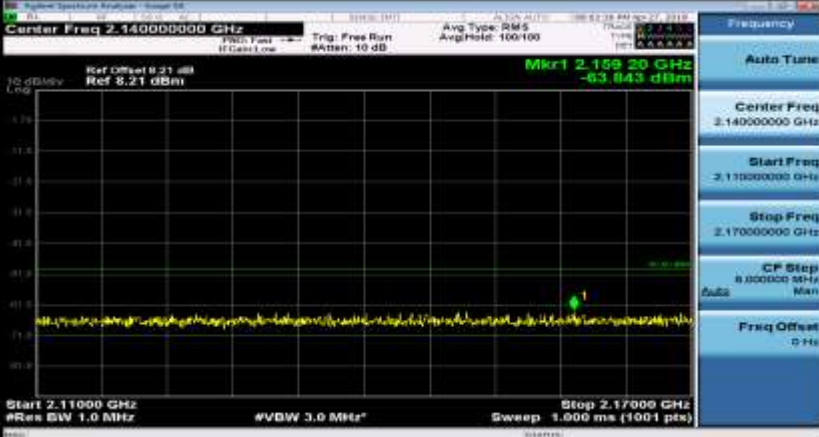
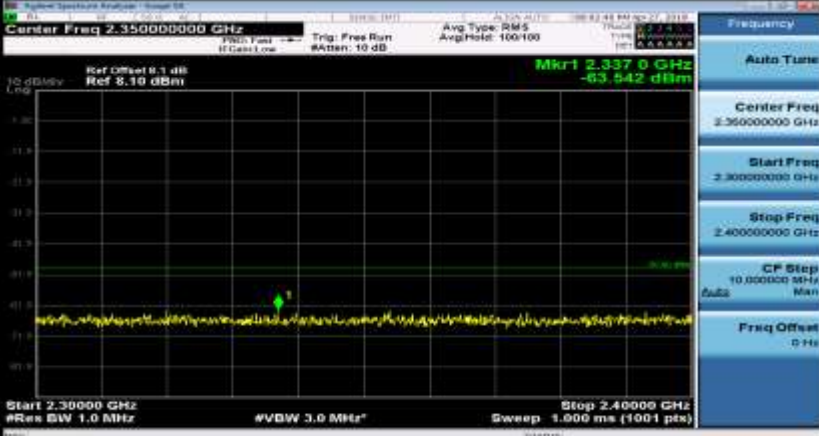
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General			
General			
Co-existence			

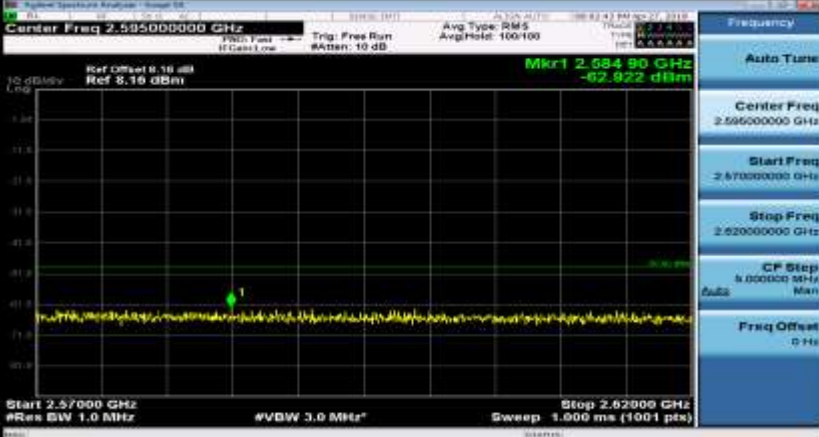
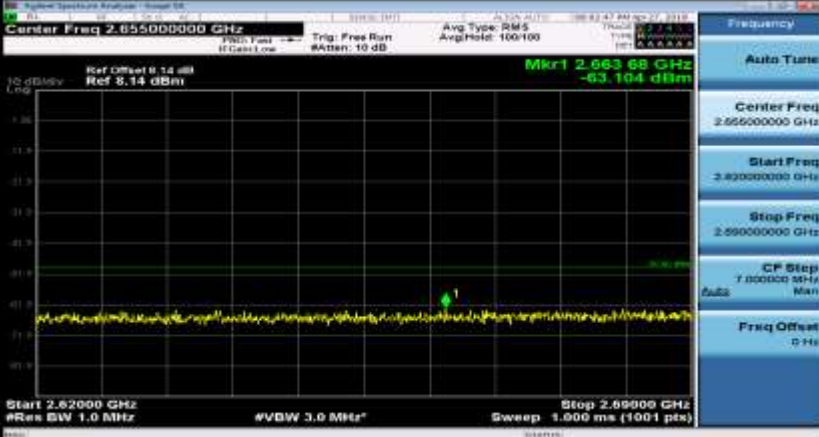

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Co-existence	
Co-existence	
Co-existence	

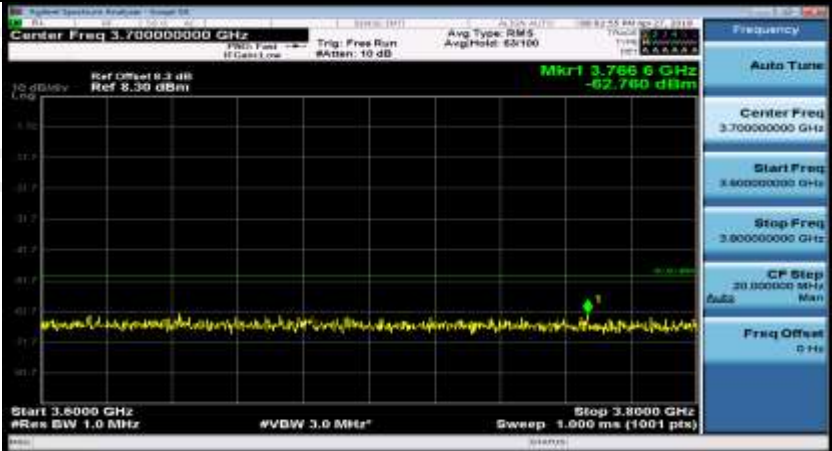
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Co-existence			
Co-existence			
Co-existence			

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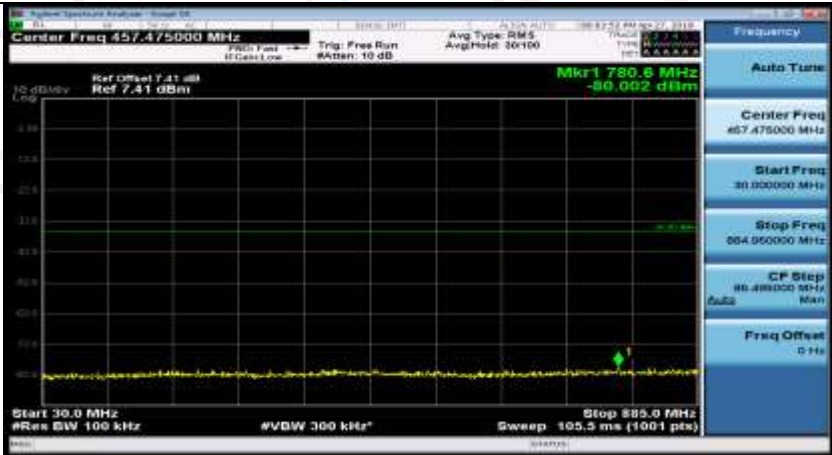
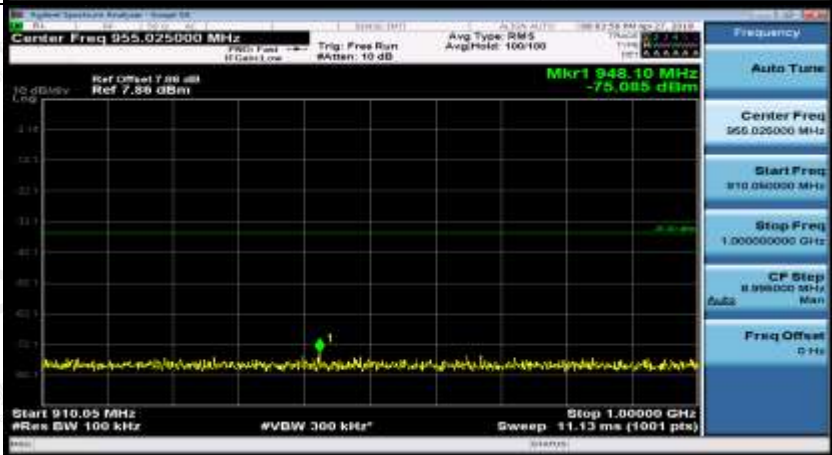

Co-existence			
Co-existence			
Co-existence			

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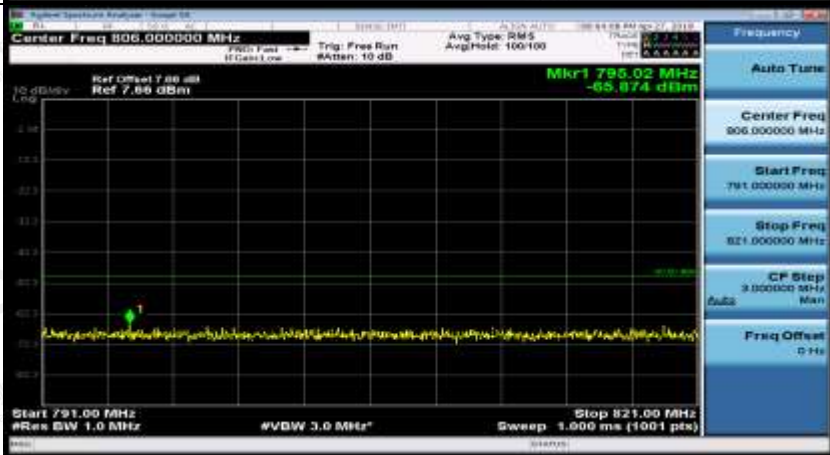
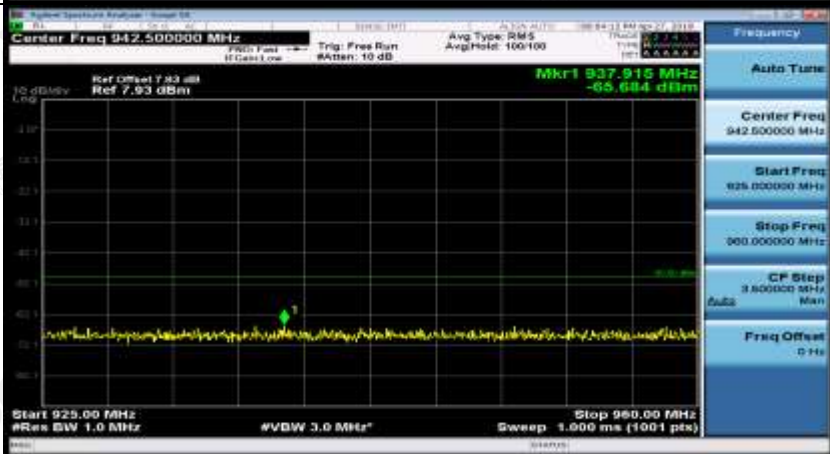
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#0	
General	
General	

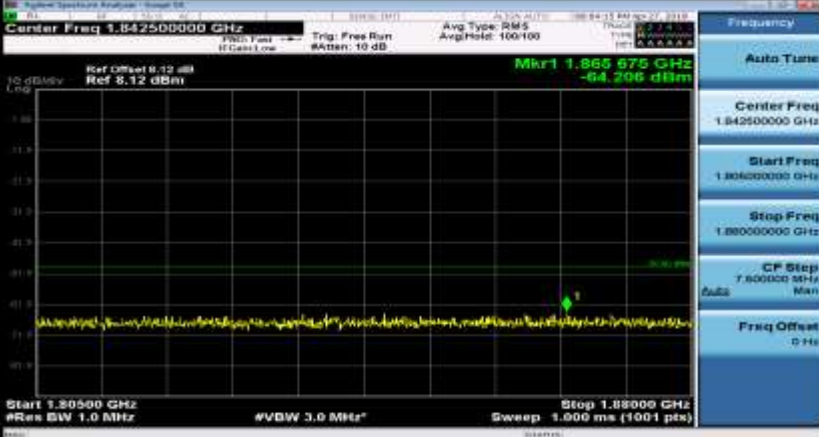
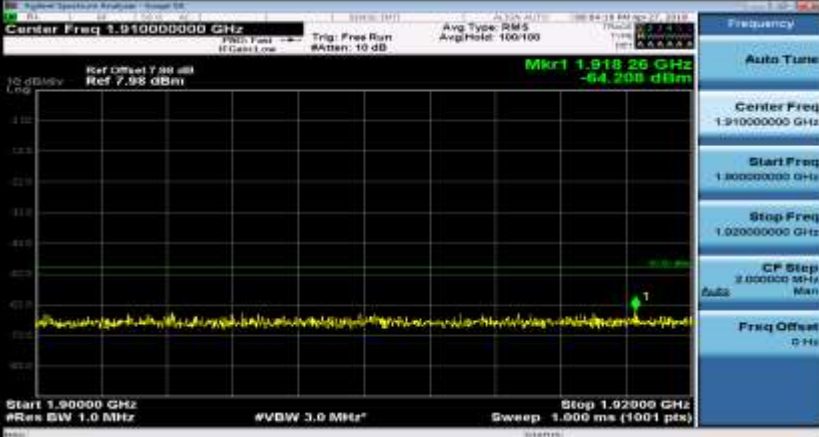

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General			
General			
General			

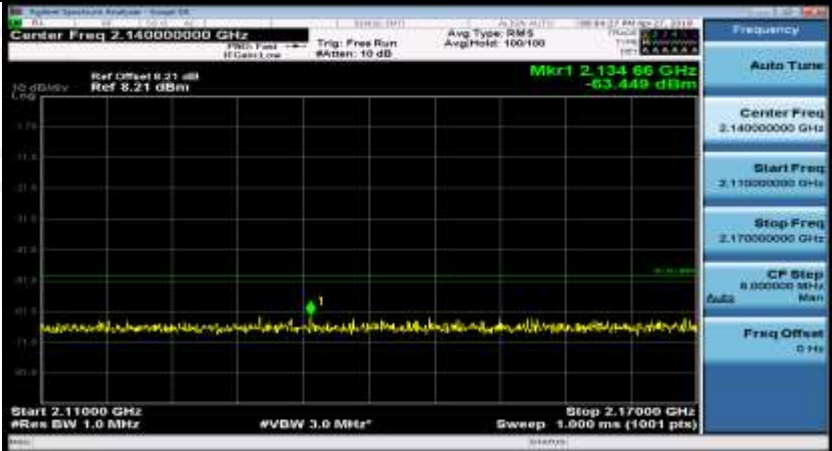
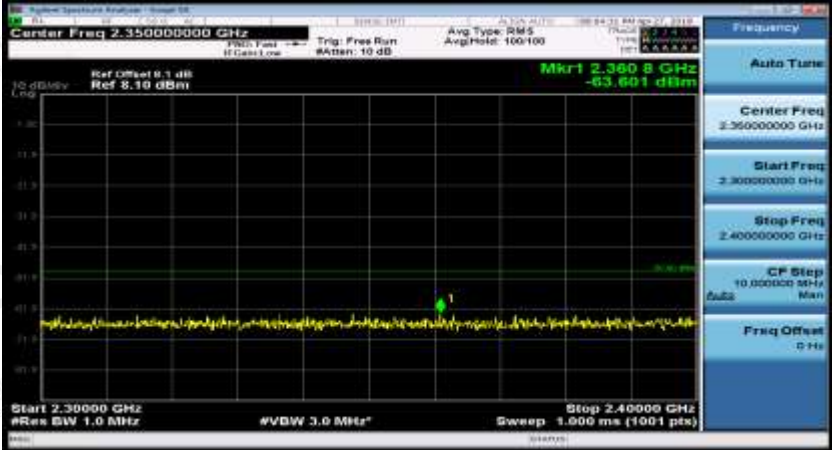
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General		 <p>Center Freq 8.87500000 GHz Mkr1 12.68575 GHz -63.775 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 12.93 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 806.000000 MHz Mkr1 795.02 MHz -65.874 dBm Start 791.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 942.500000 MHz Mkr1 937.915 MHz -65.684 dBm Start 925.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	

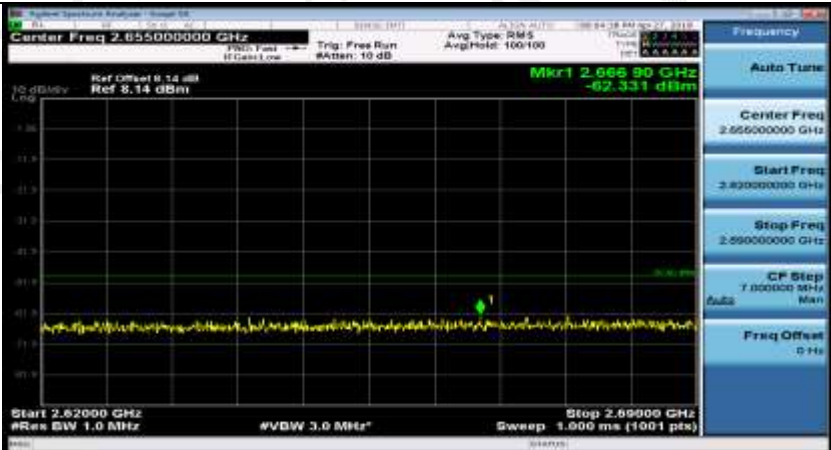
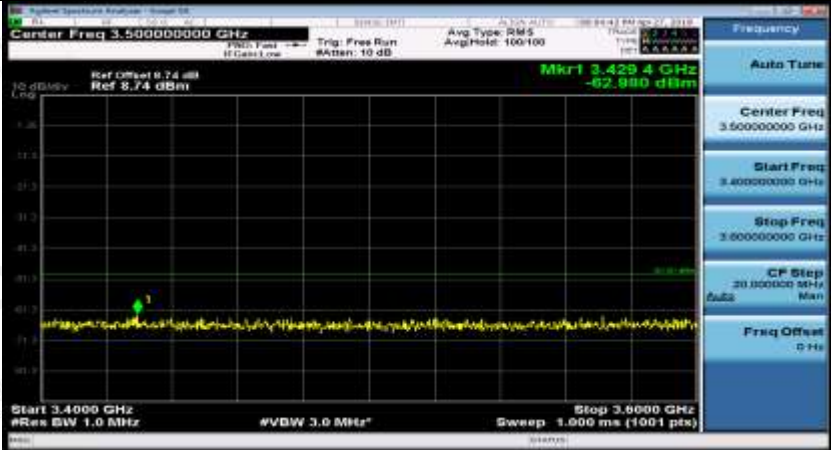
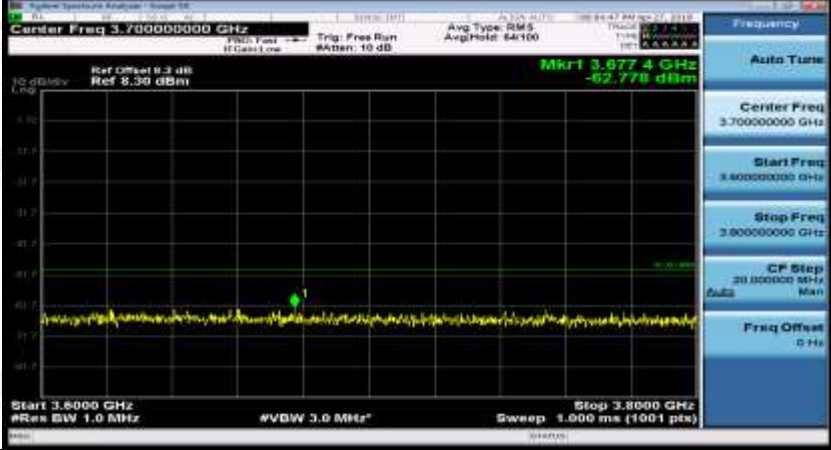
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Co-existence			
Co-existence			
Co-existence			

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Co-existence		
Co-existence		
Co-existence		

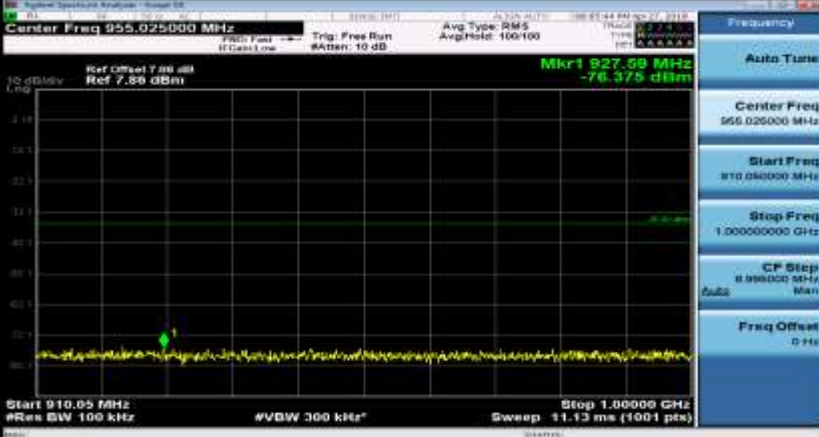

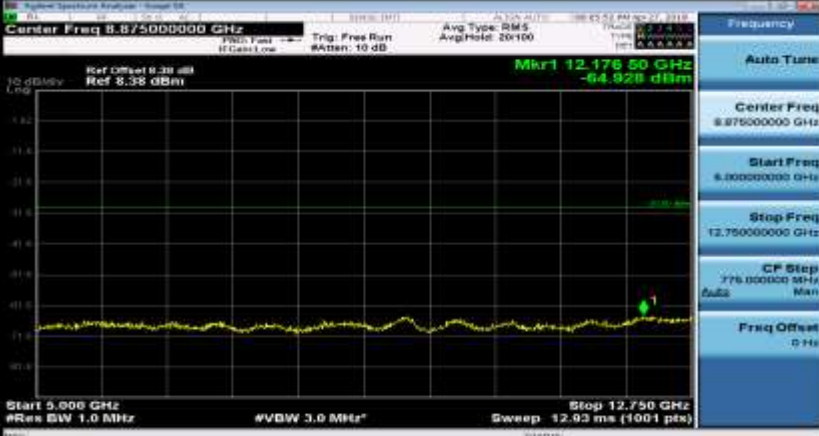
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Co-existence	
Co-existence	
Co-existence	
Additional	NA

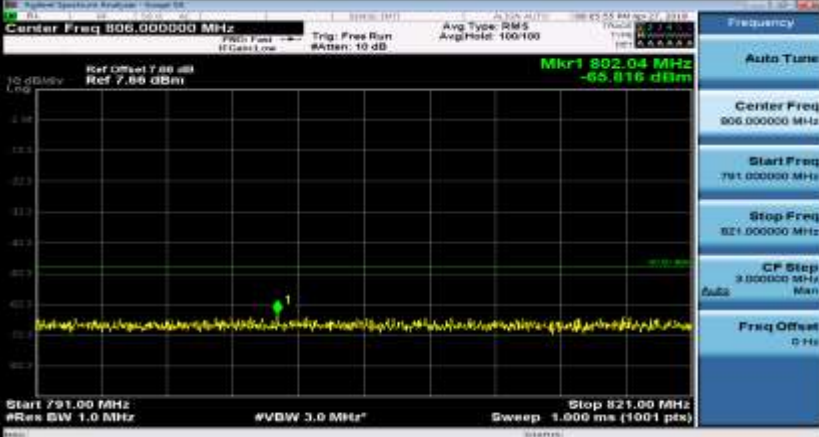
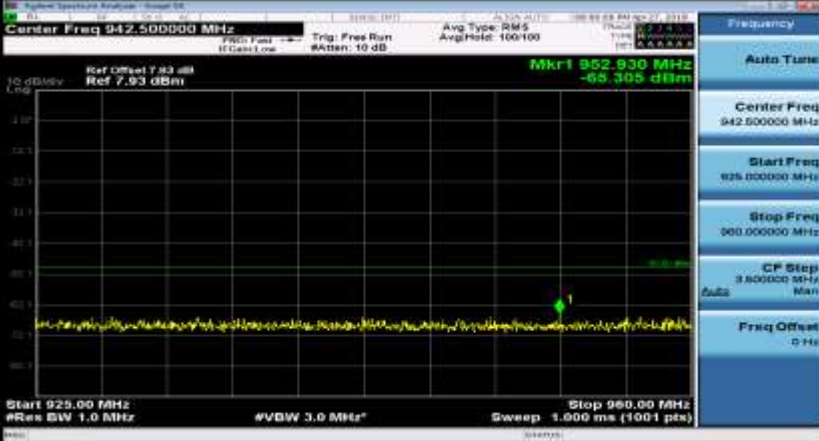
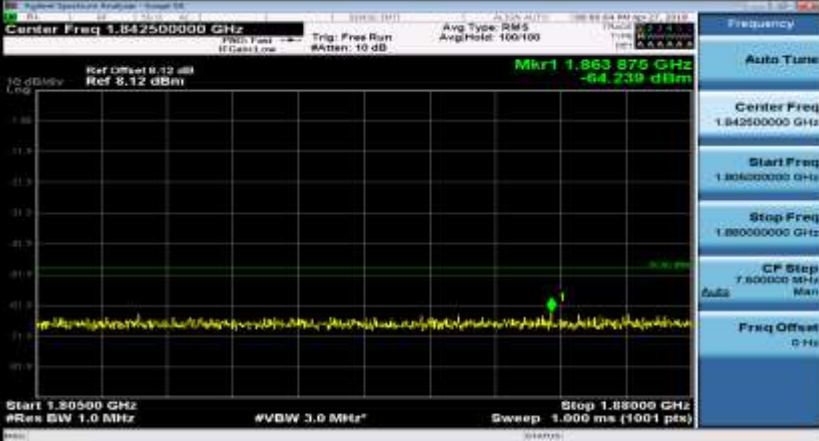
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Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#max		
General		
General		
General		

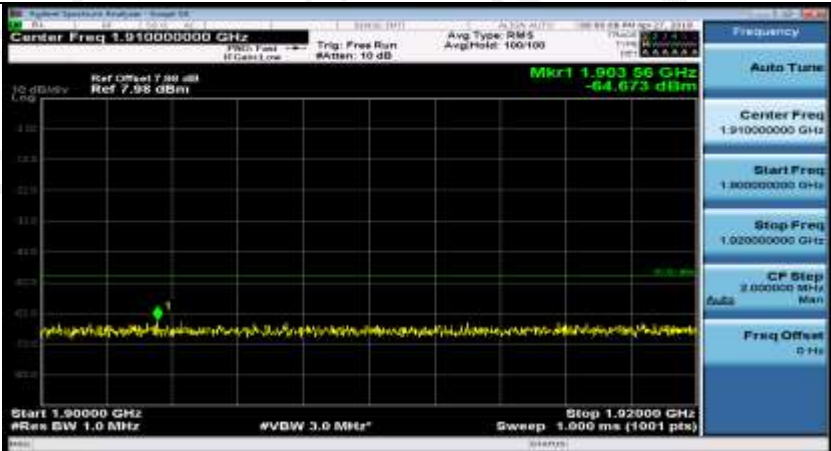
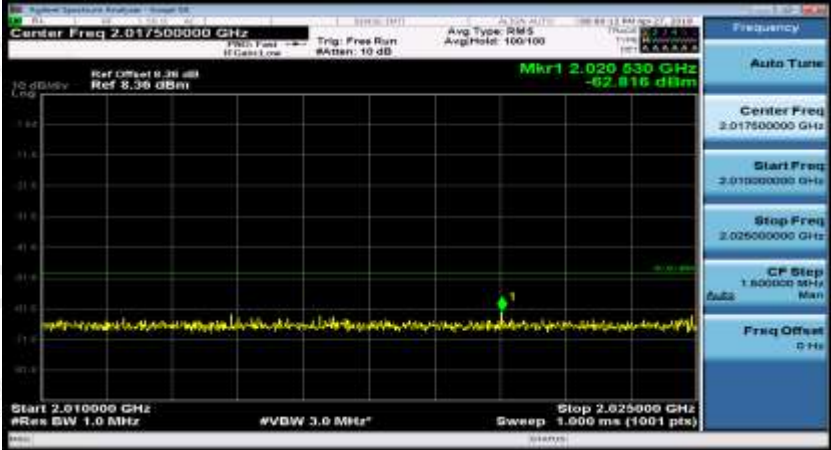
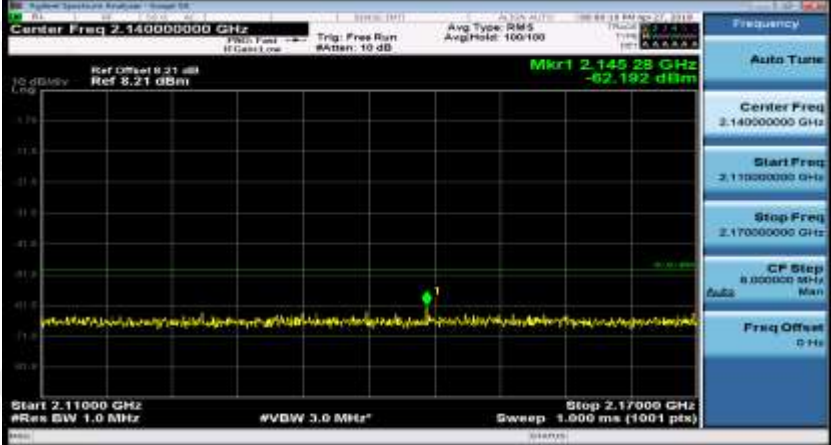
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General			
General			
General			

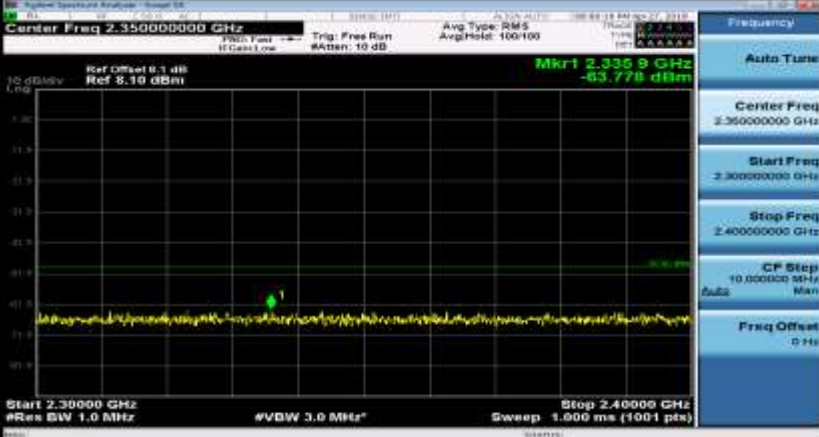
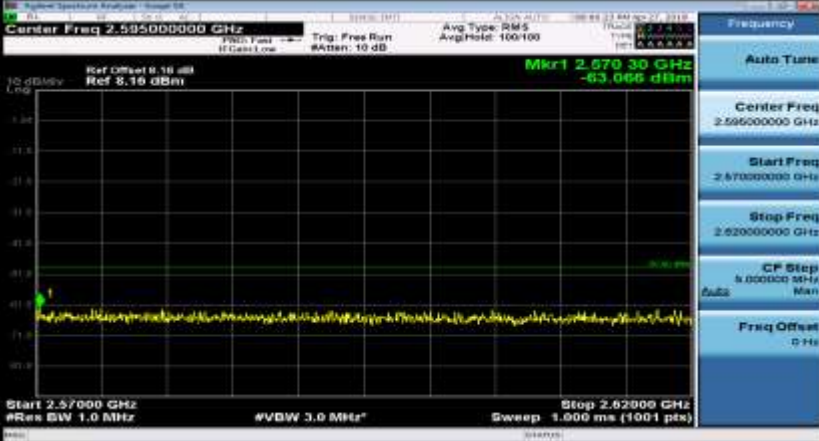
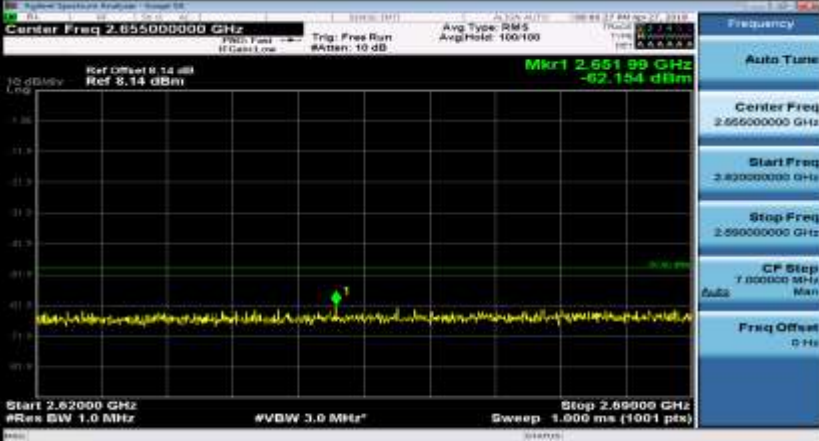
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Co-existence			
Co-existence			
Co-existence			

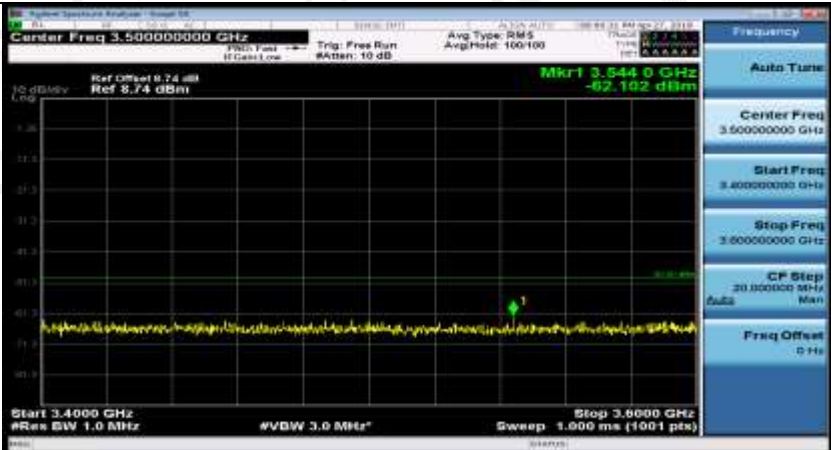
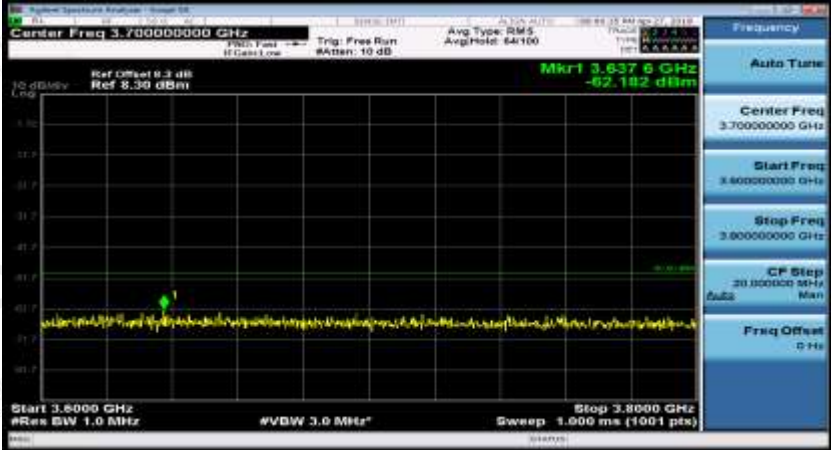
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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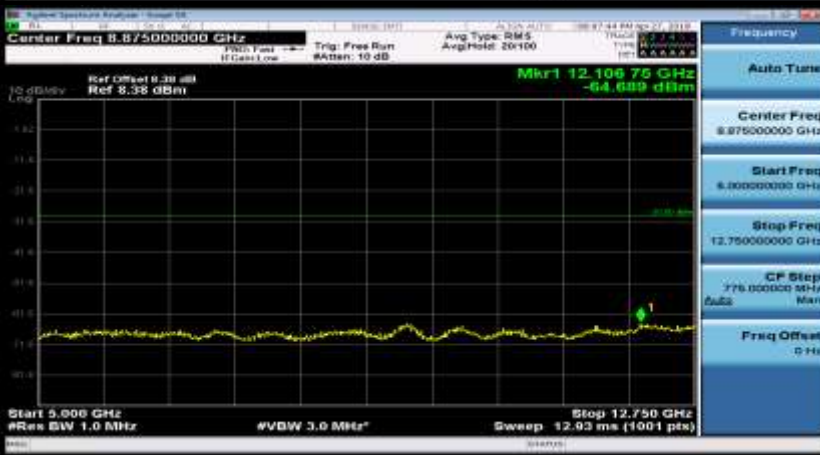
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_FullIRB#0	
General	

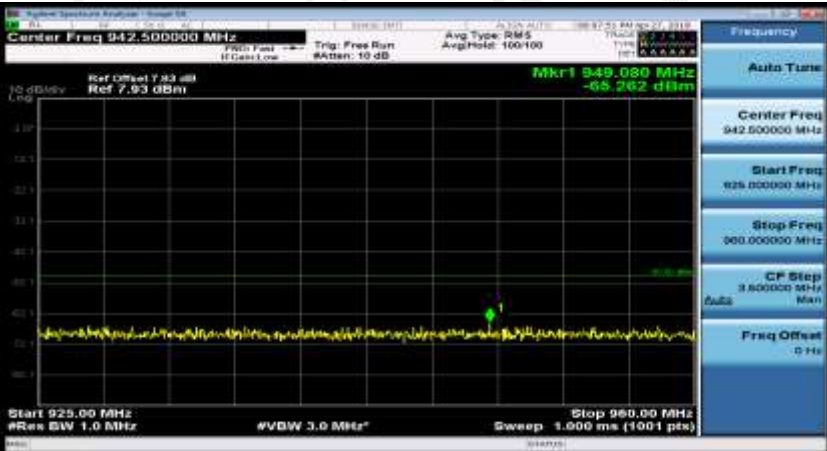
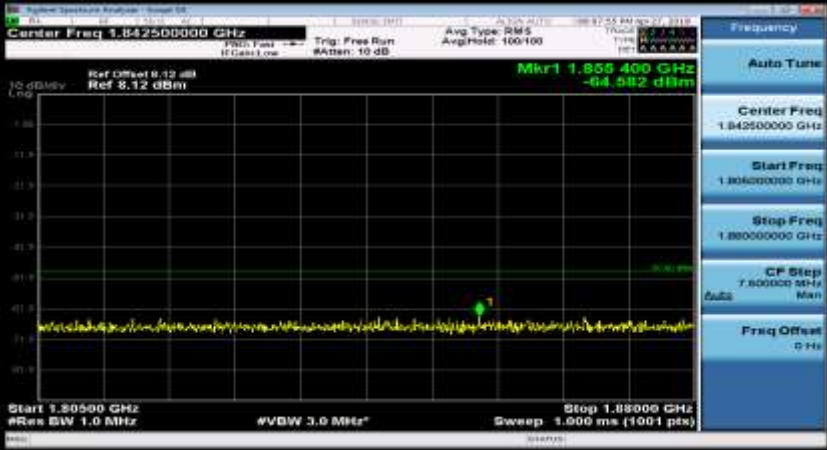
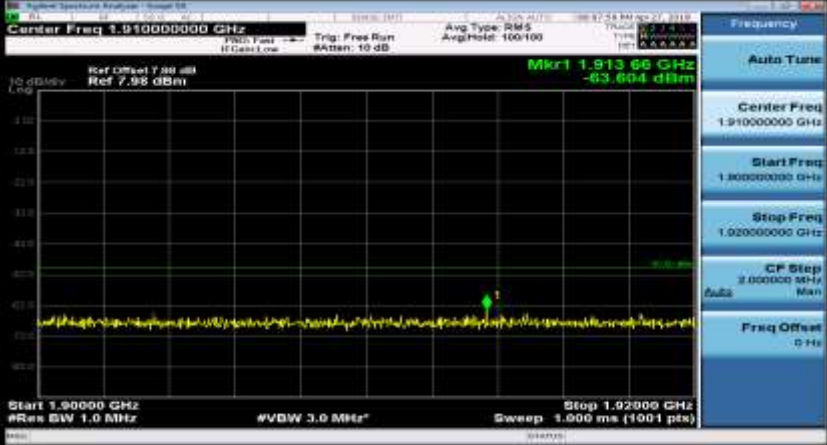
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General			
General			
General			

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General		
General		
Co-existence		

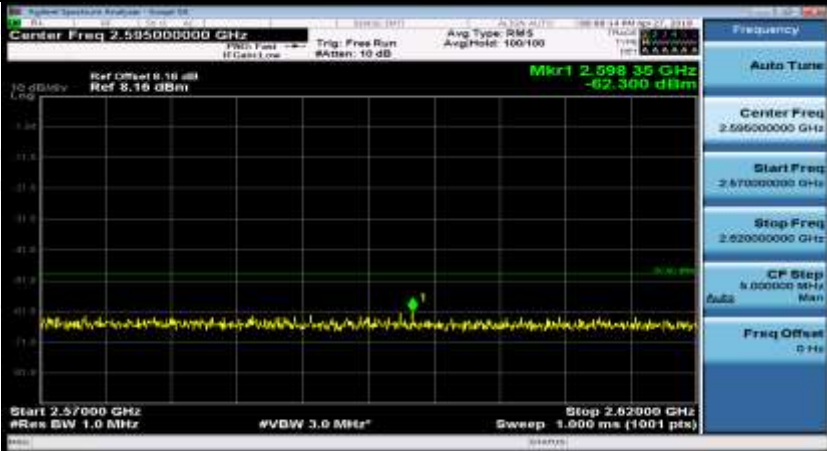
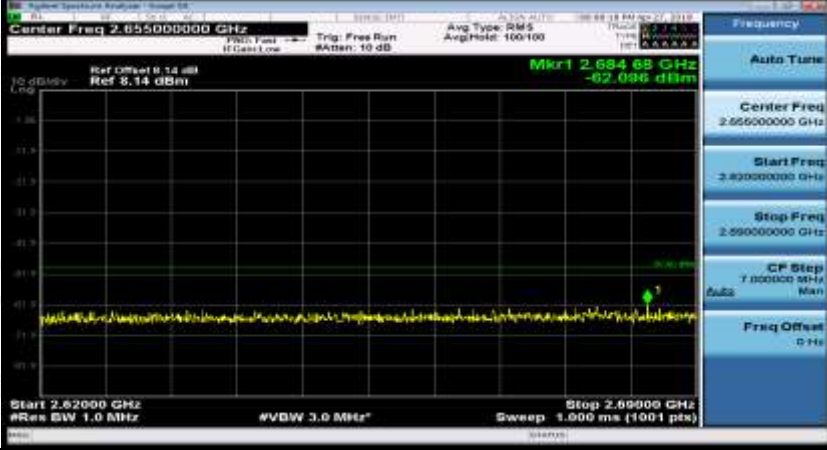
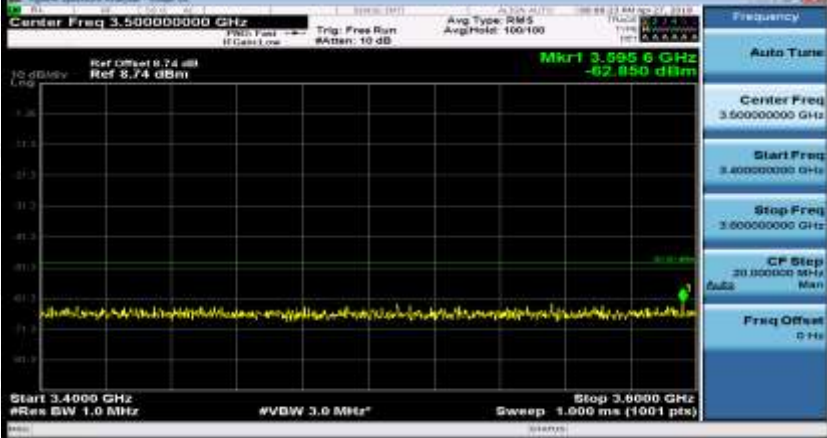
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Co-existence	
Co-existence	
Co-existence	

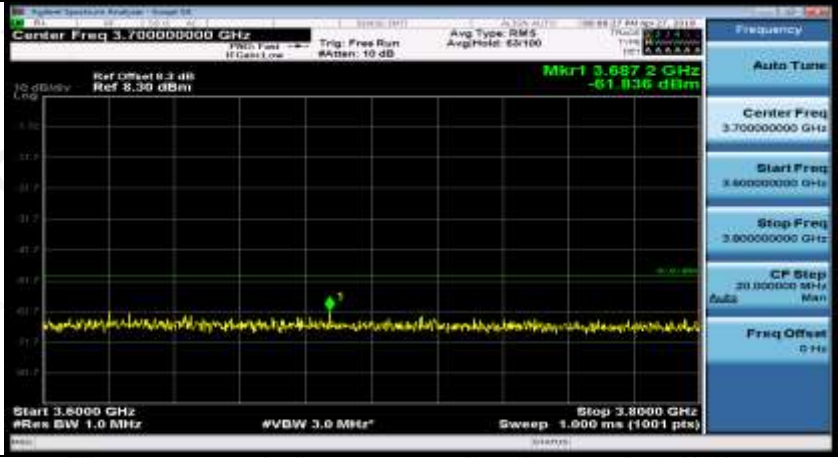
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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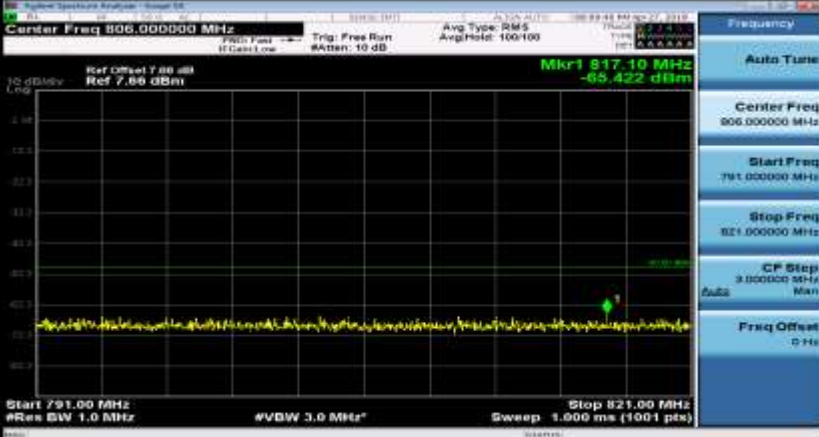
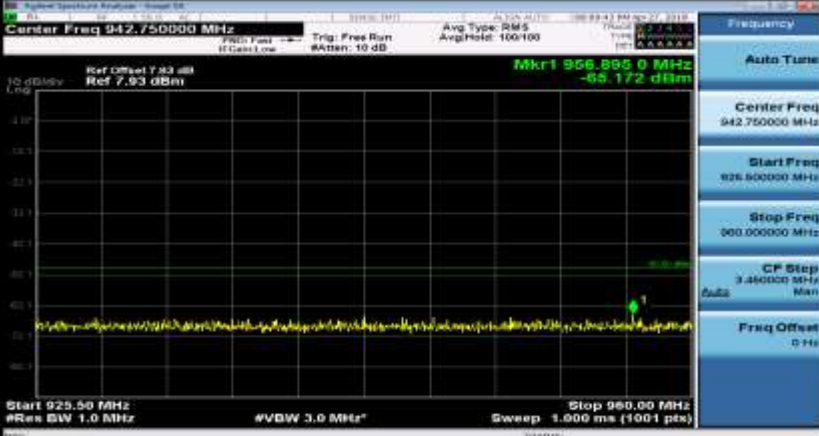
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#0	
General	
General	

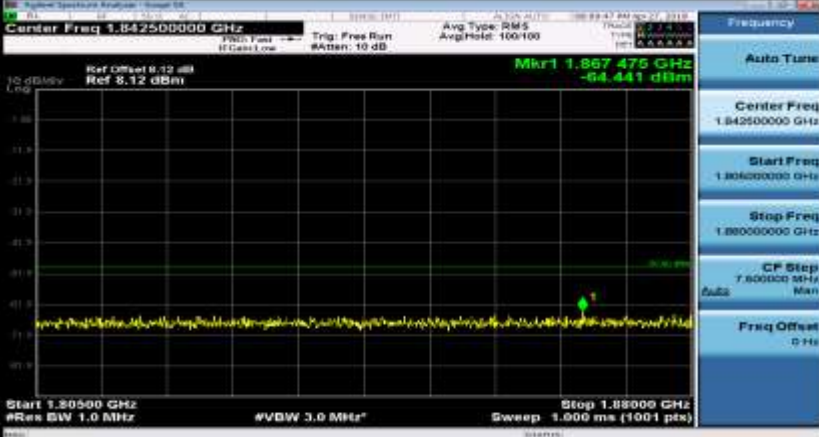
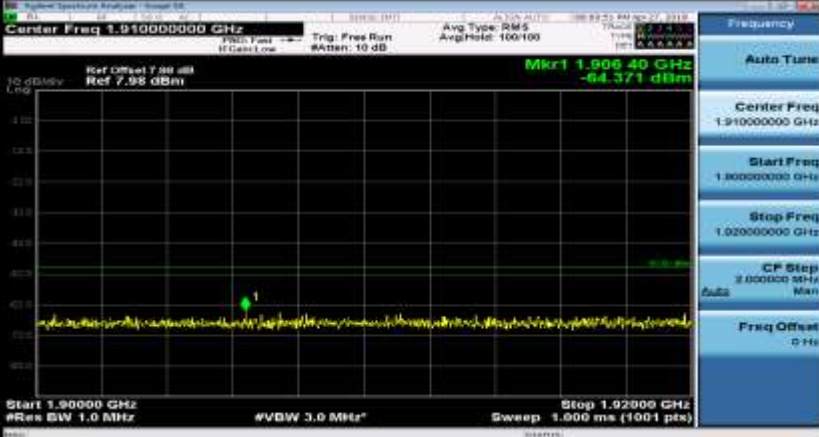

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General			
General			
General			

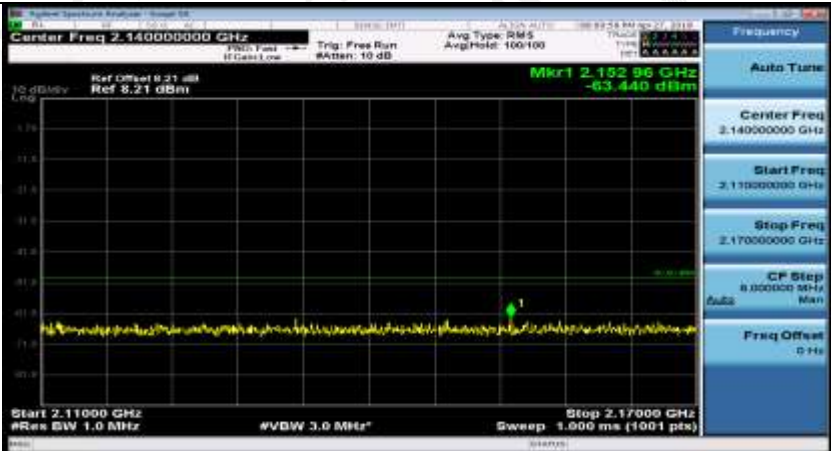

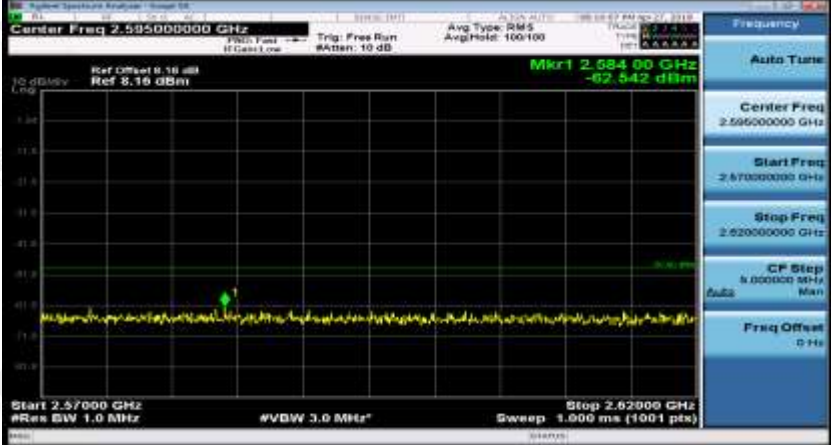
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General			
Co-existence			
Co-existence			

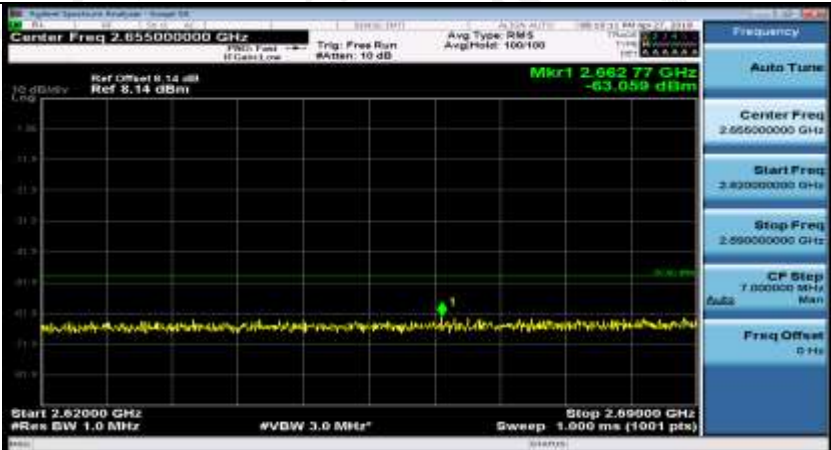
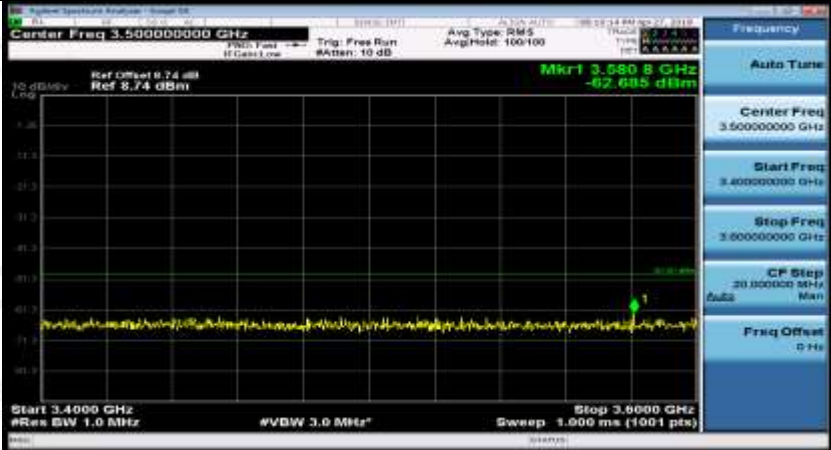
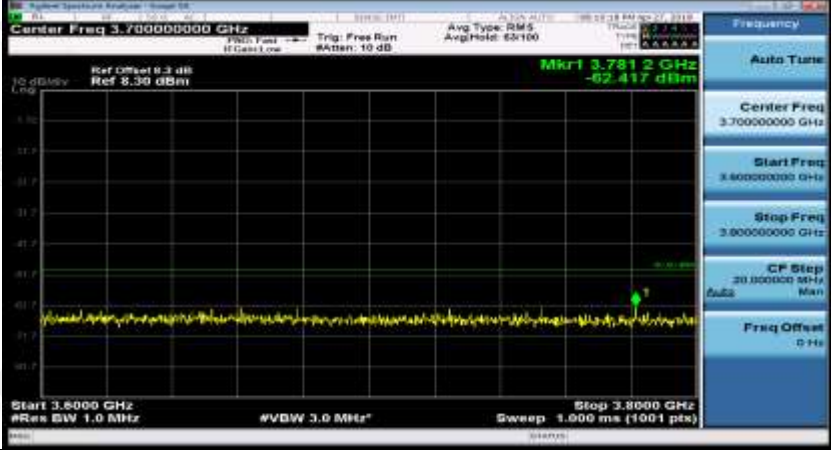
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Co-existence			
Co-existence			
Co-existence			

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Co-existence		
Co-existence		
Co-existence		

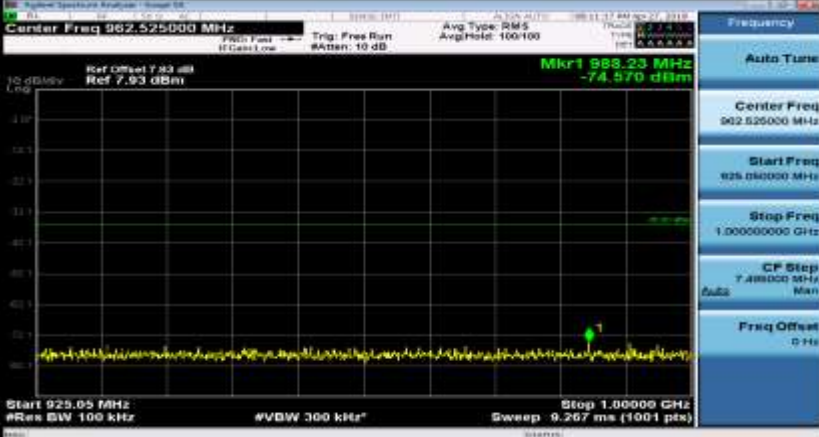

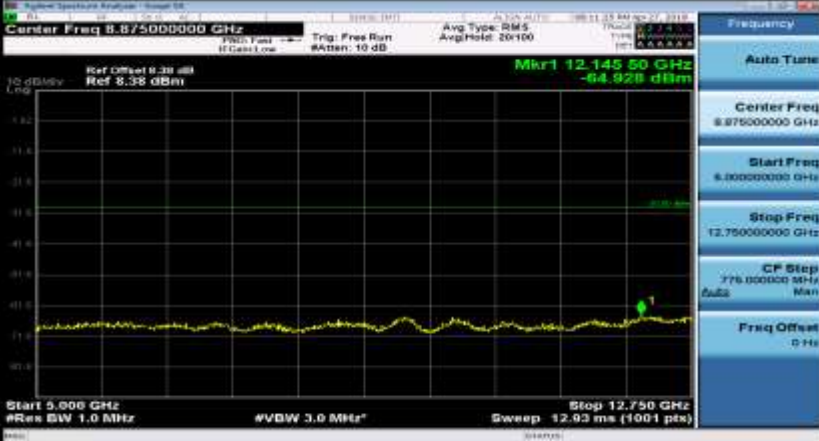
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Co-existence	
Co-existence	
Co-existence	
Additional	NA

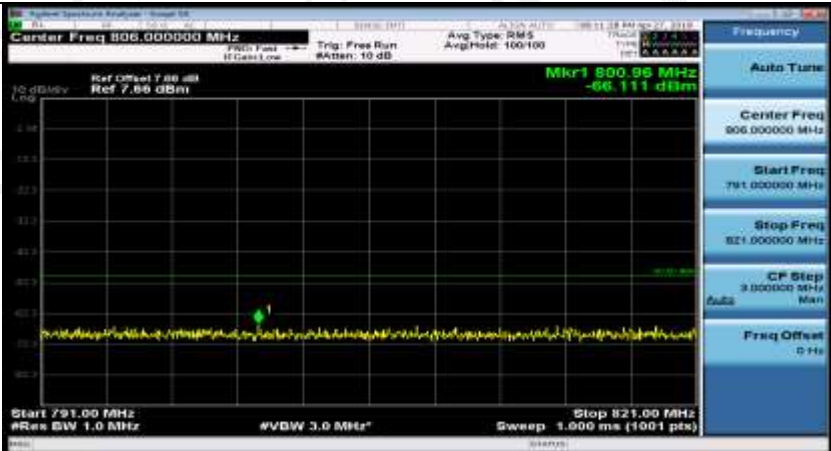
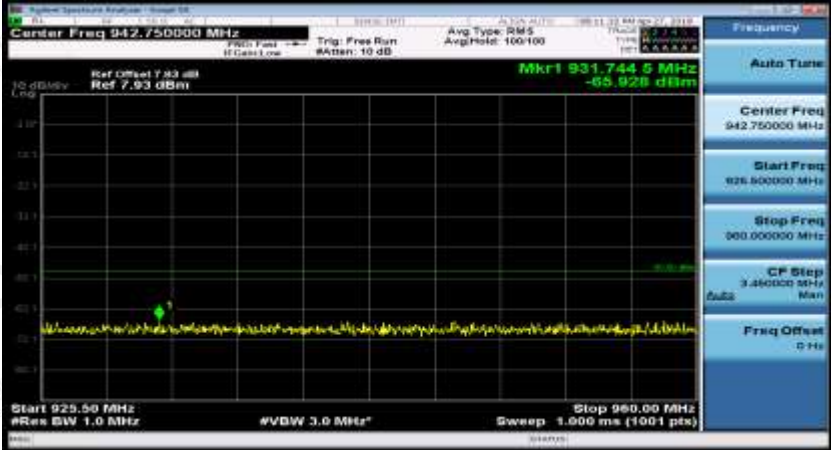
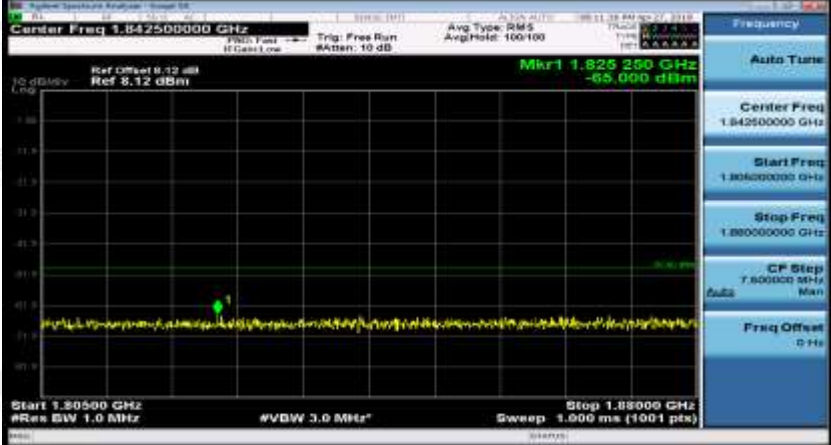
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Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#max		
General		
General		
General		

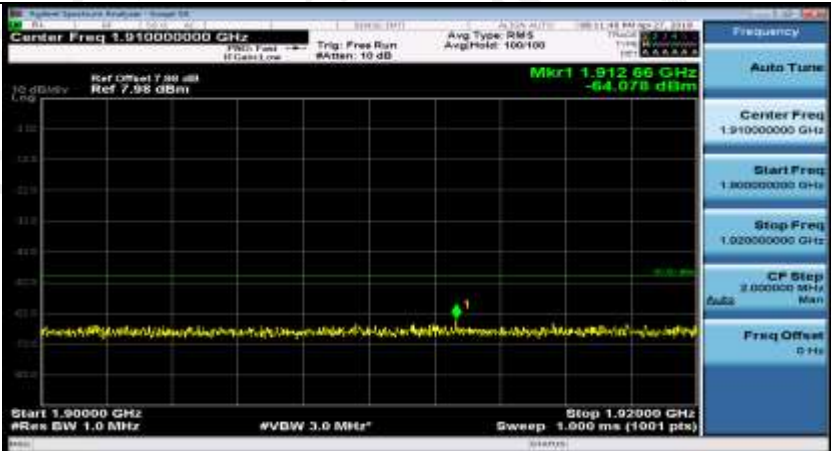
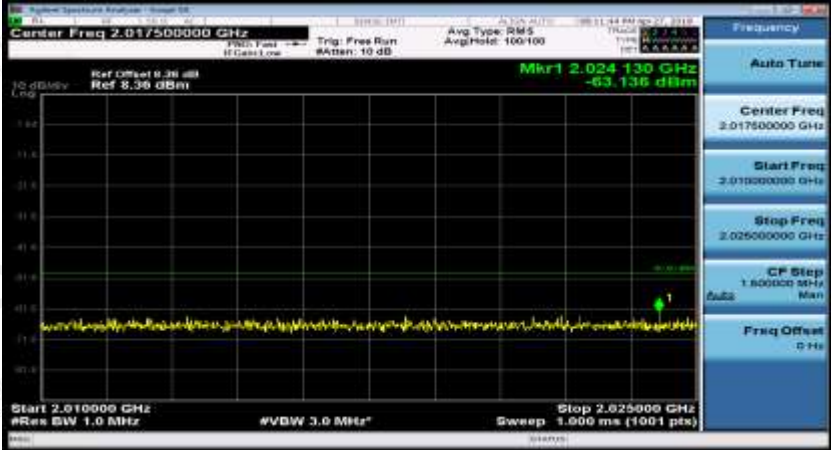
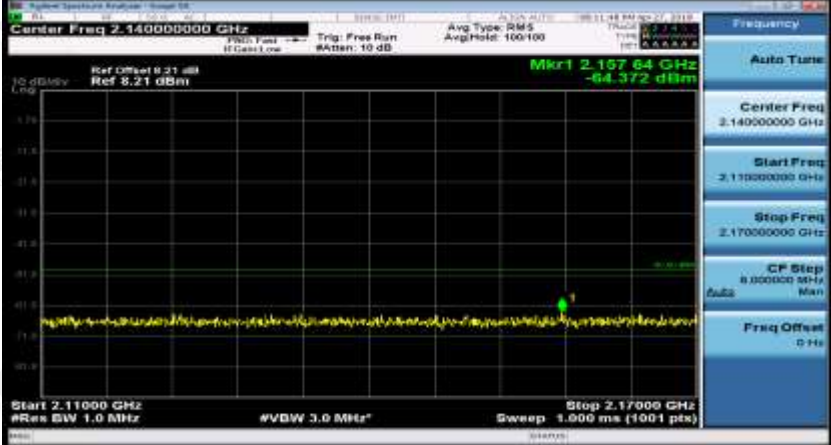
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General			
General			
General			

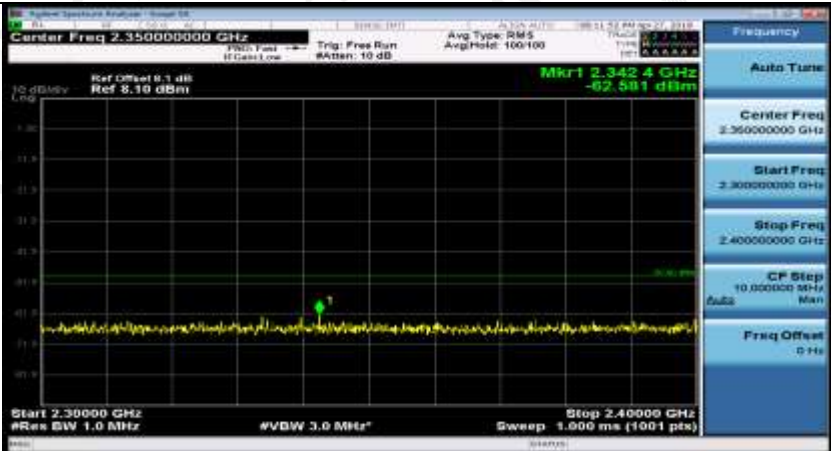
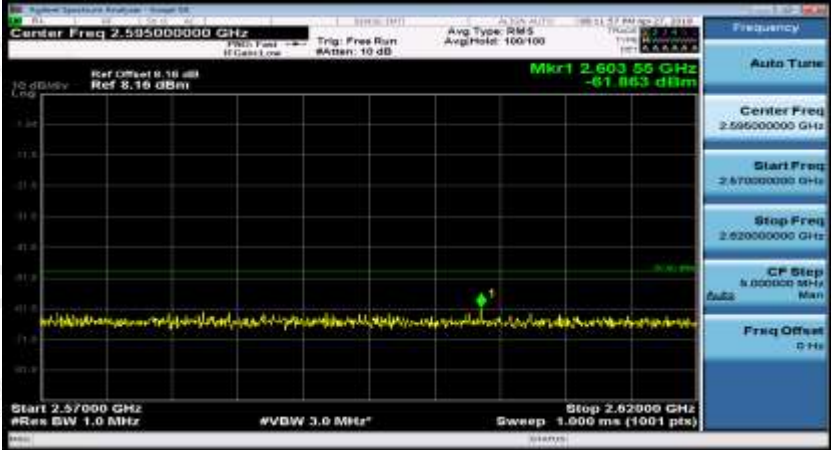
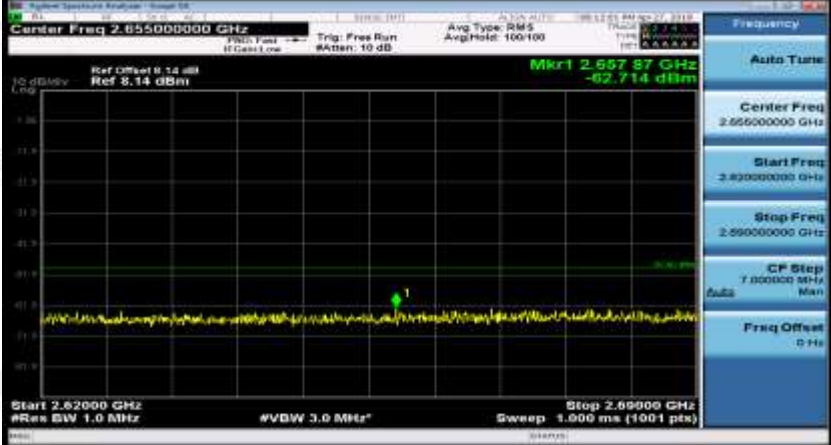
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Co-existence	
Co-existence	
Co-existence	

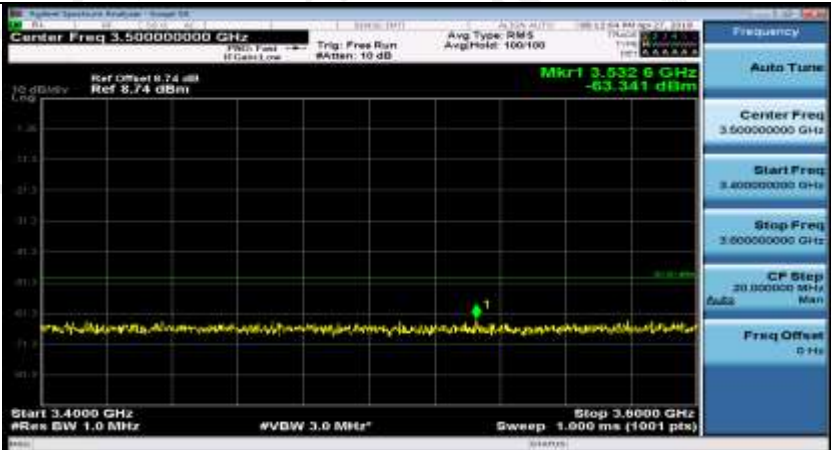
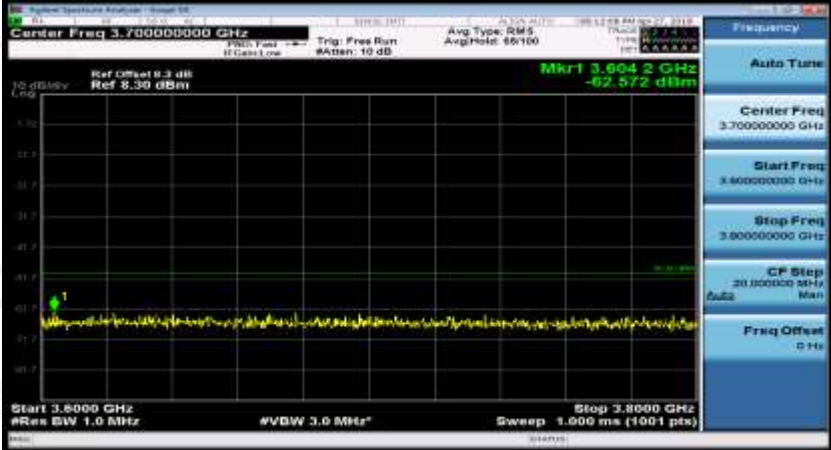
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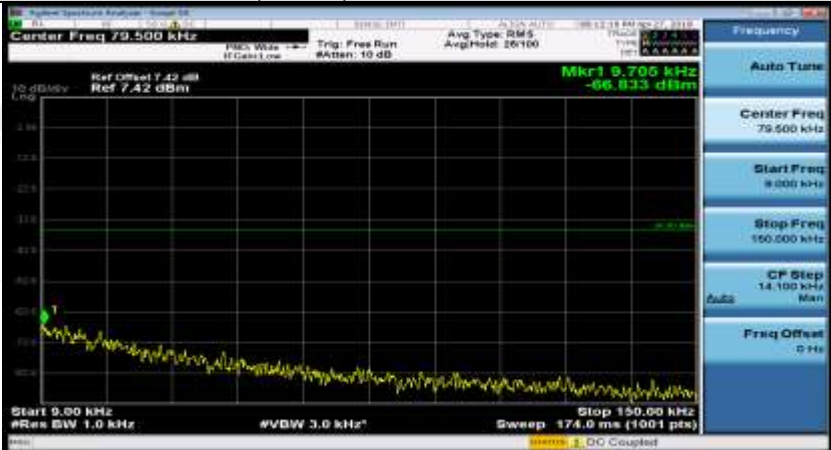
Co-existence	
Co-existence	
Co-existence	

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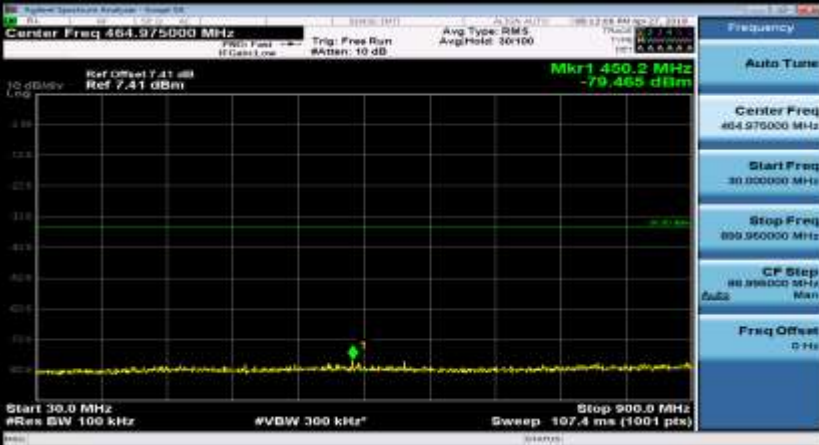
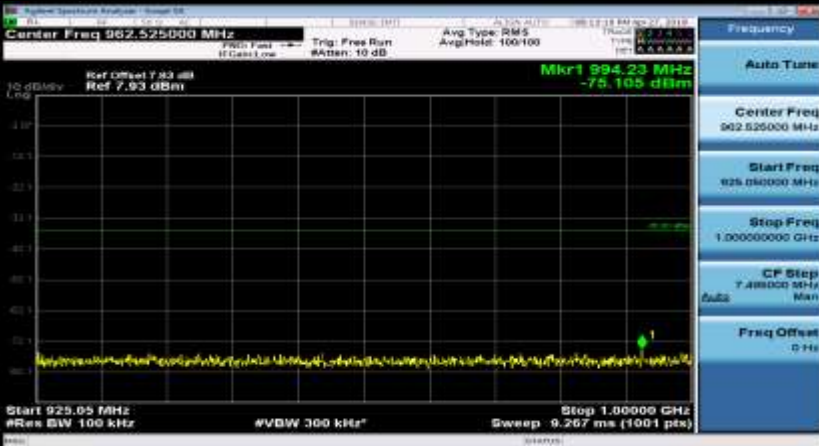
Co-existence	
Co-existence	
Co-existence	

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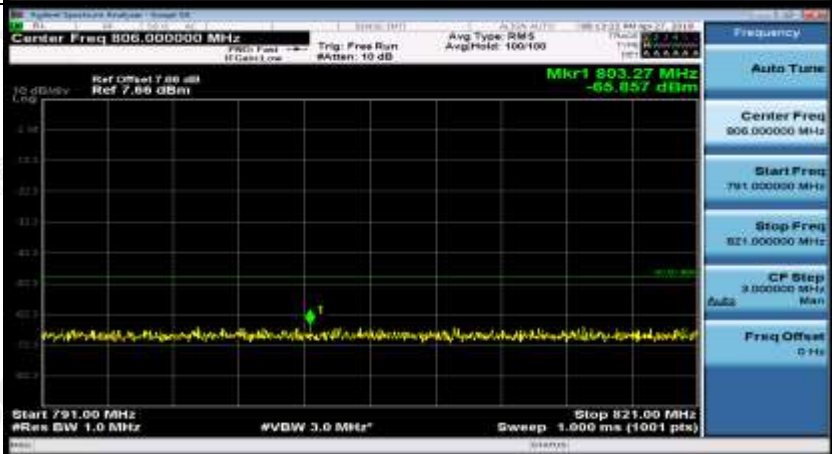
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_FullIRB#0	
General	

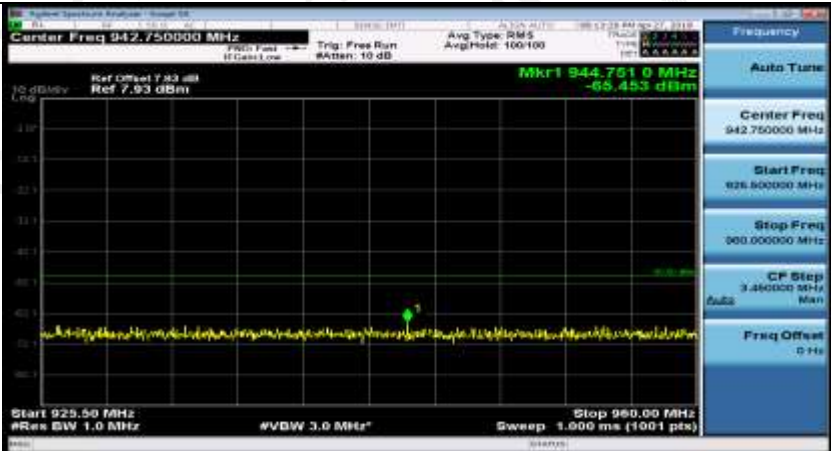
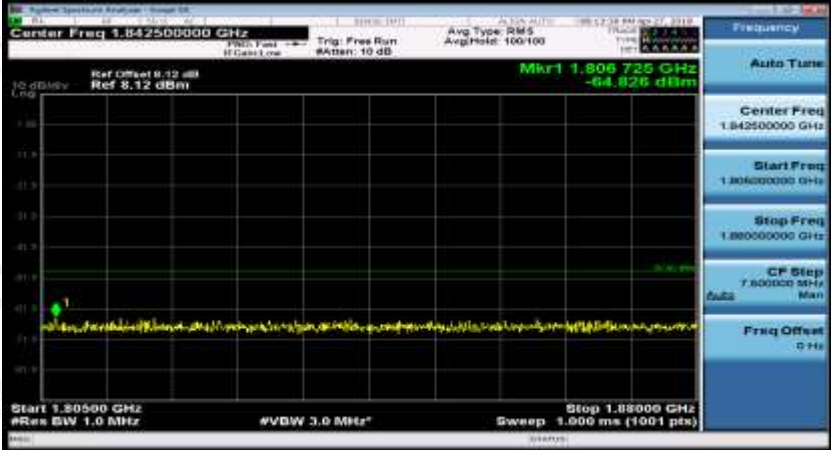
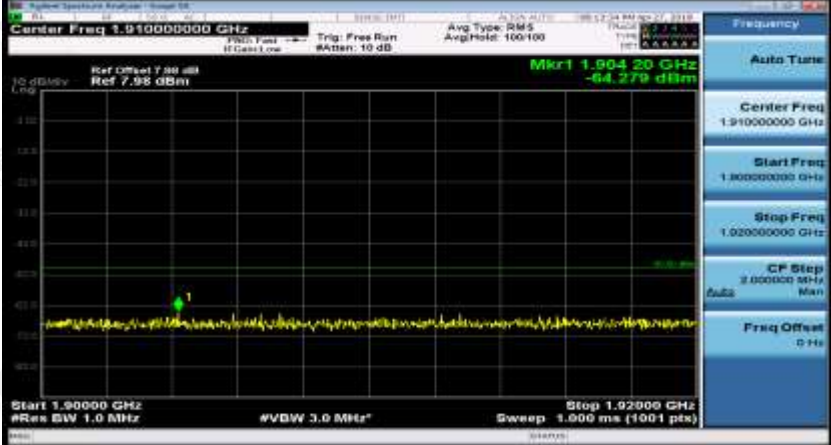
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General			
General			
General			

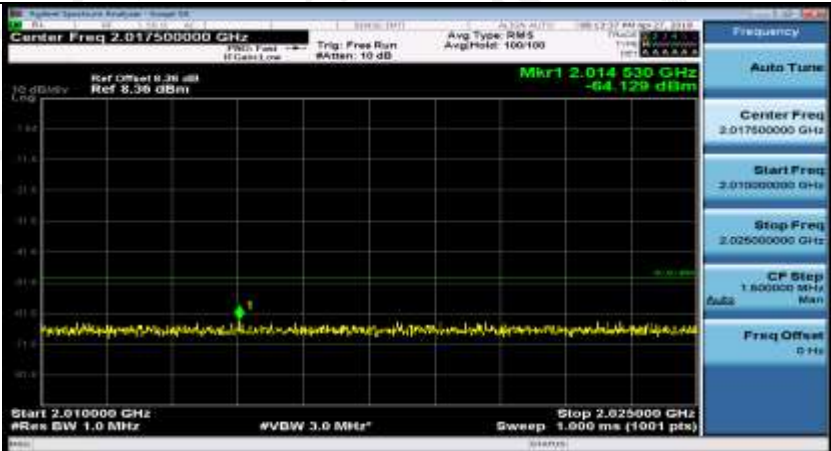
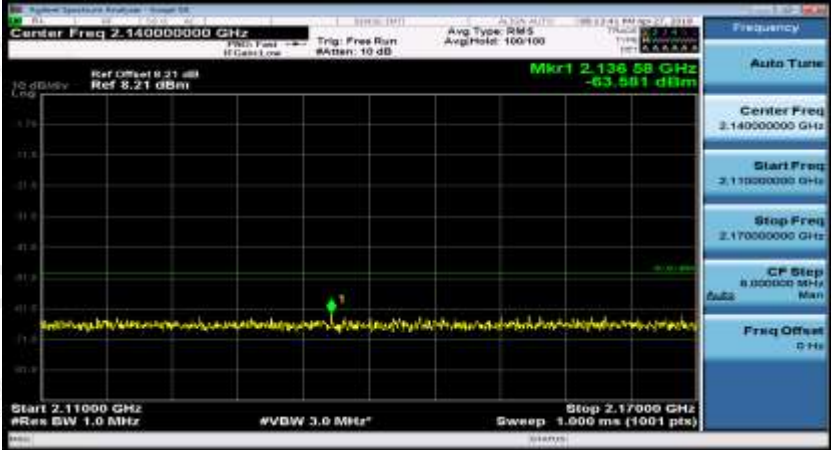
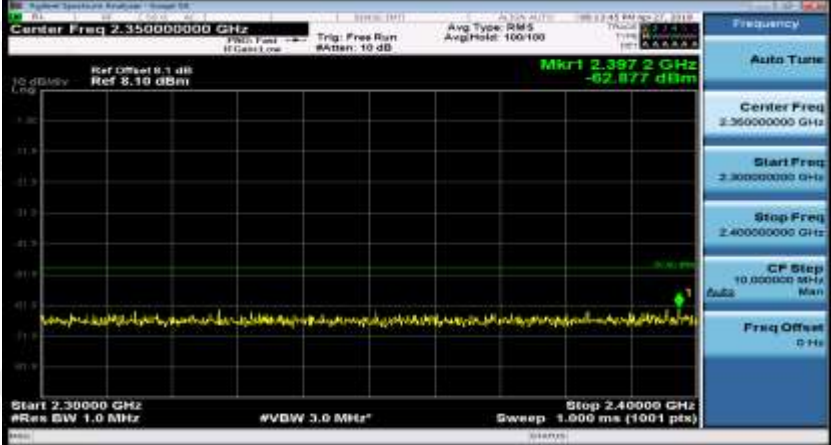
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General			
General			
Co-existence			

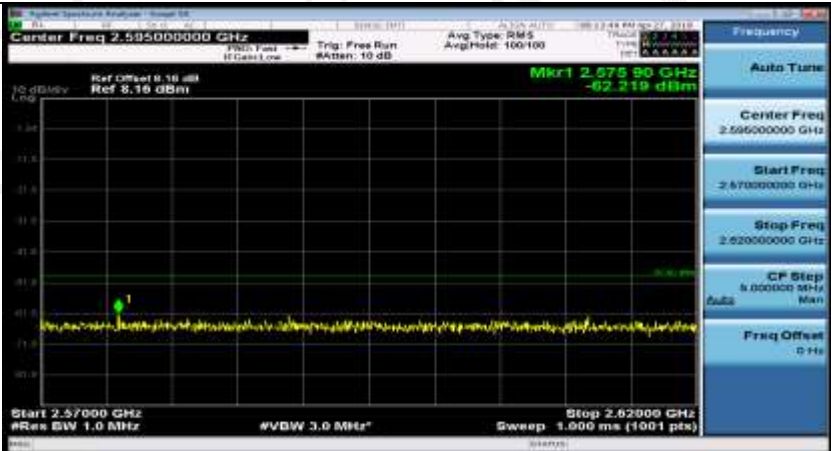
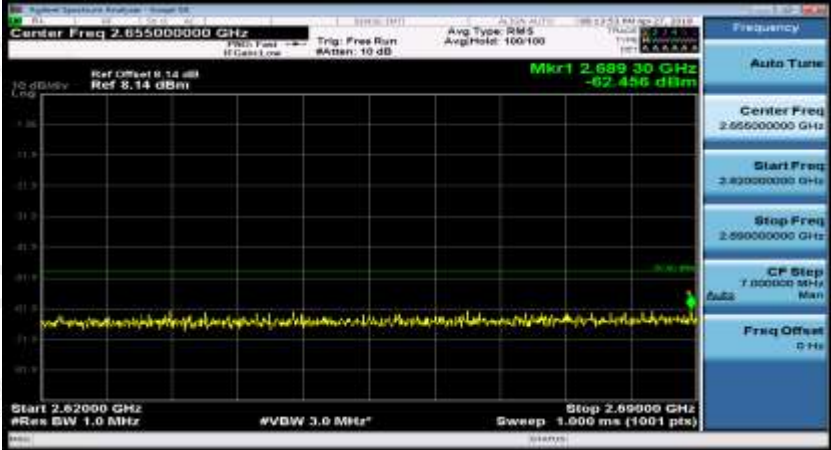
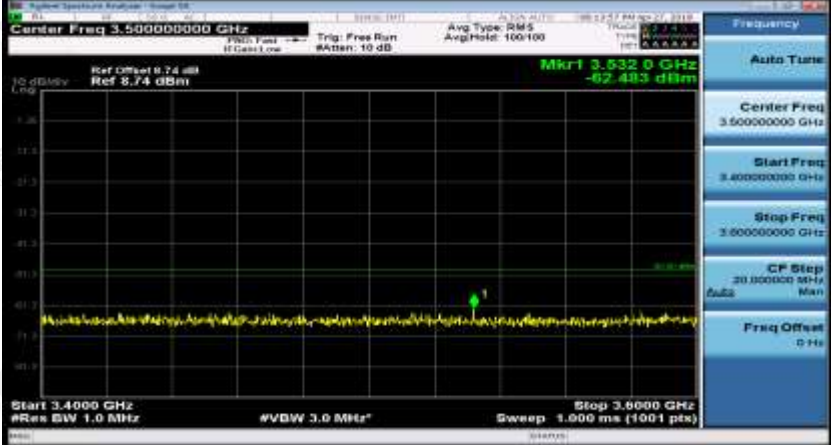
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Co-existence	
Co-existence	
Co-existence	

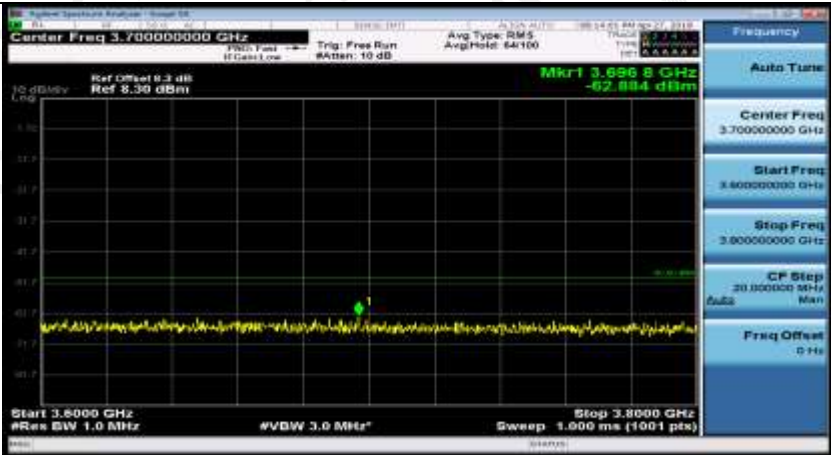
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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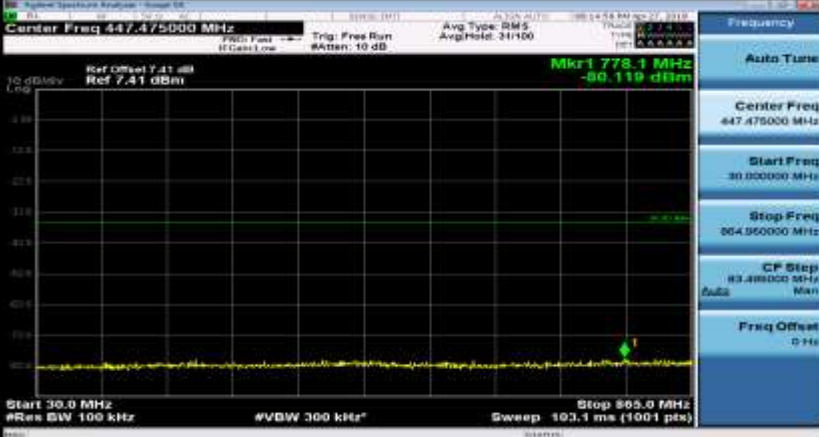
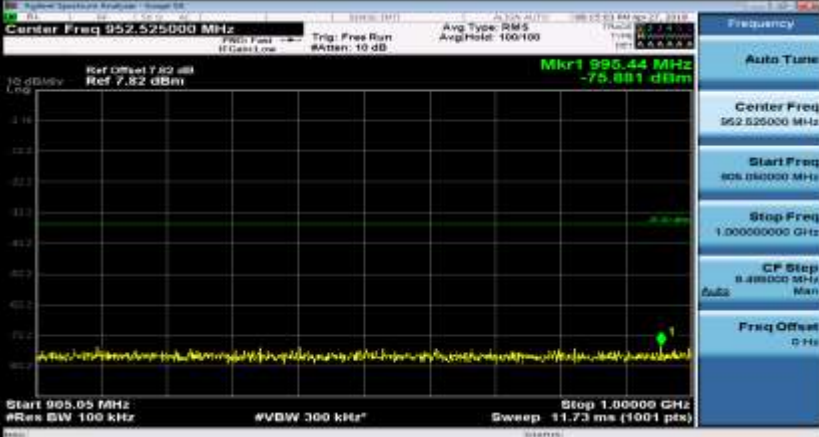
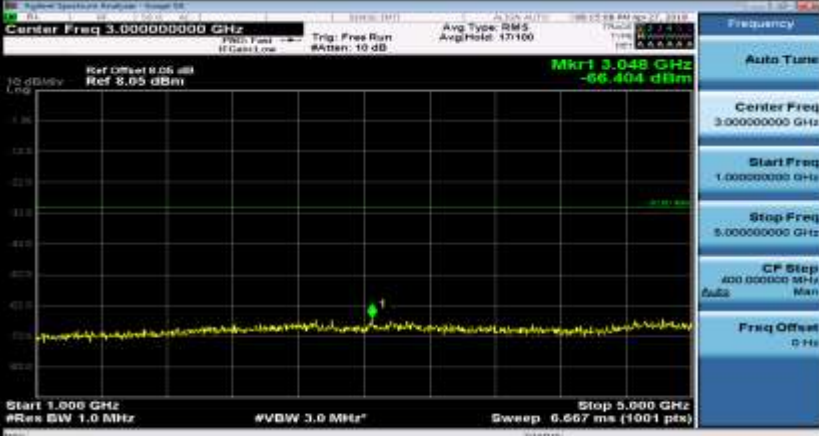
Co-existence	
Additional	NA

Channel Bandwidth= (10 MHz)


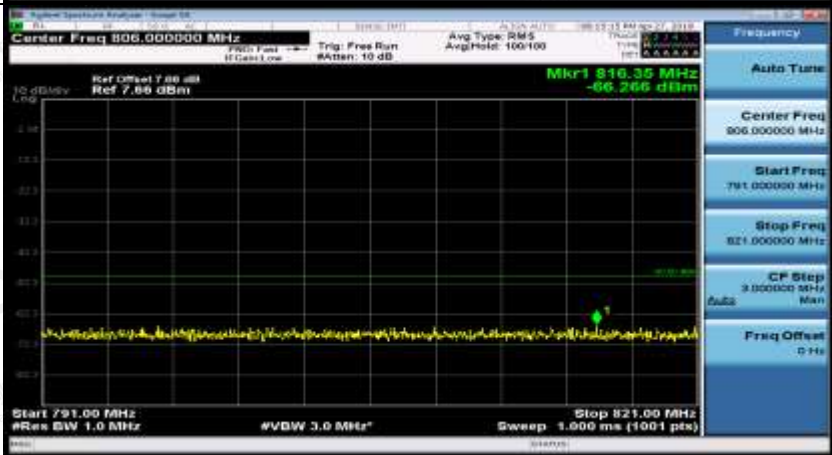
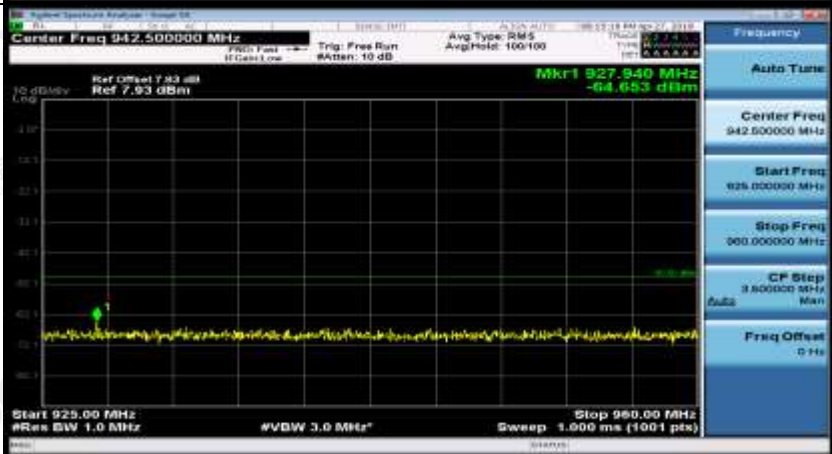
Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_1RB#0

General	
General	

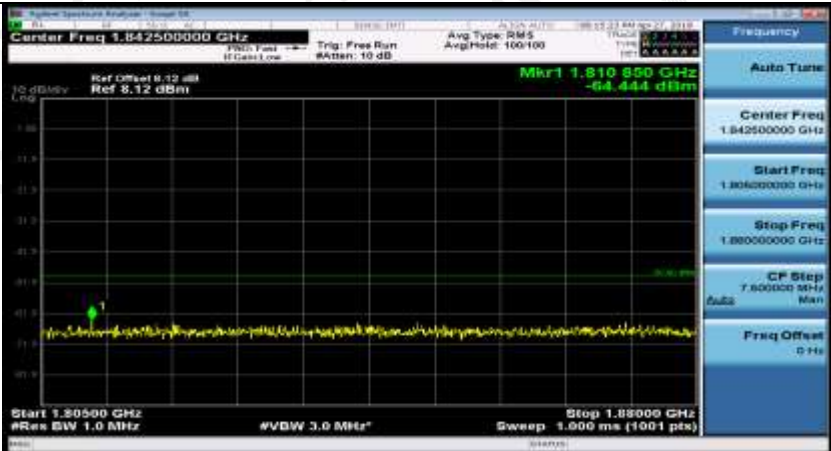
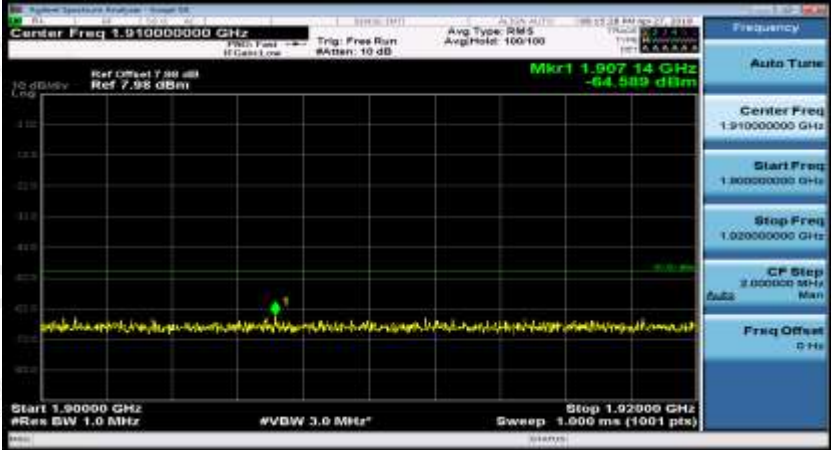
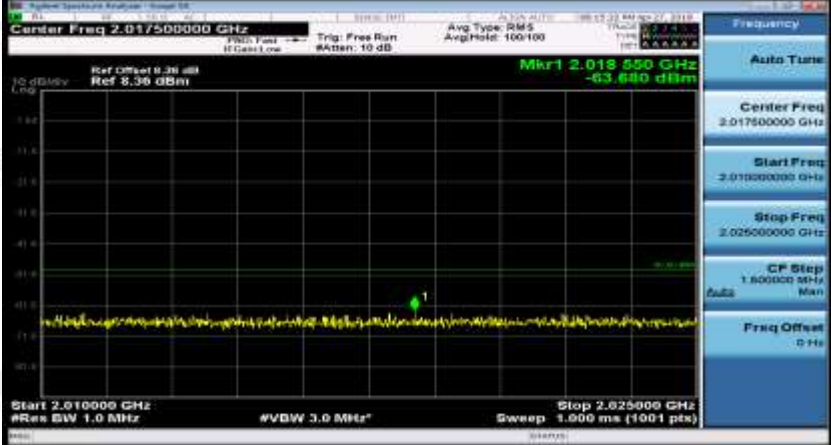
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General			
General			
General			

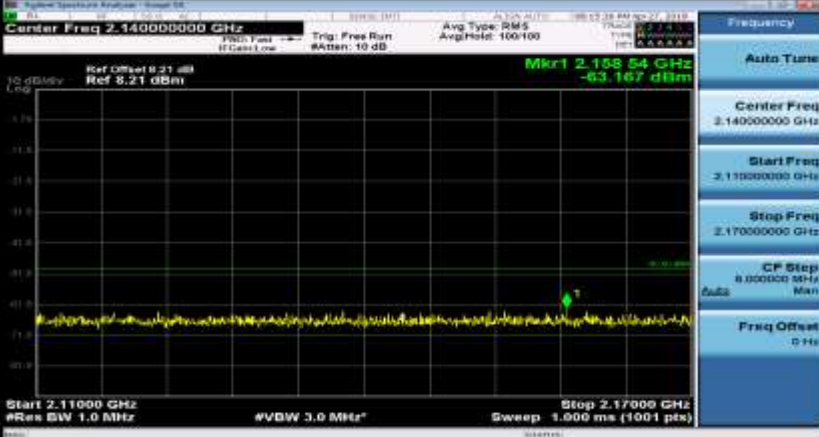
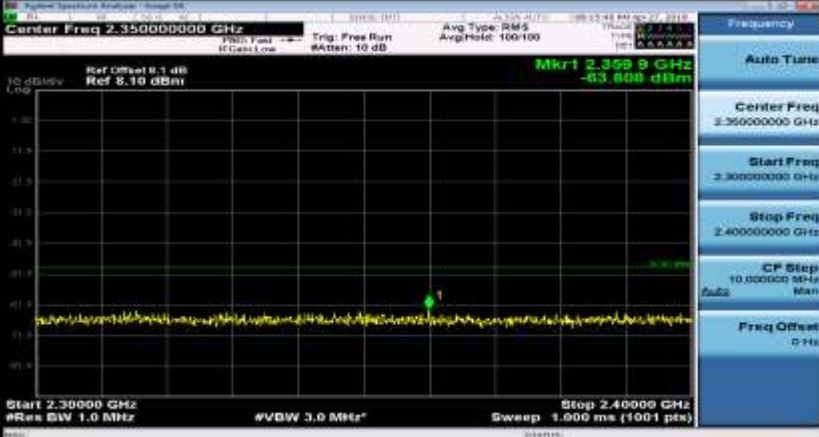

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General			
Co-existence			
Co-existence			

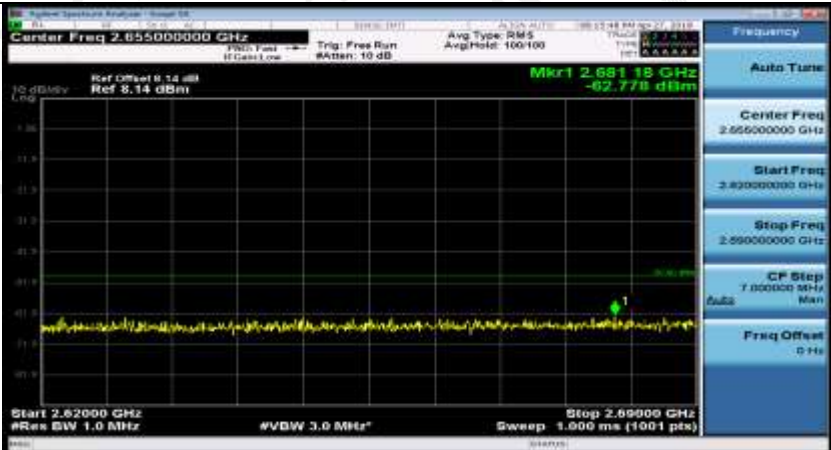

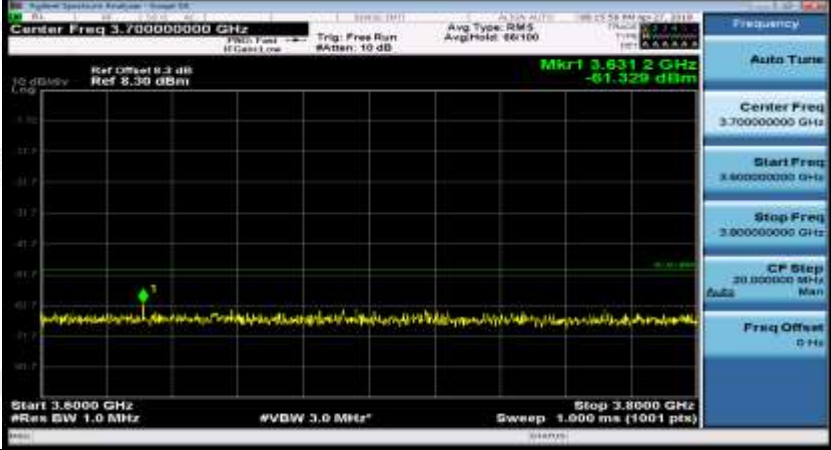
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

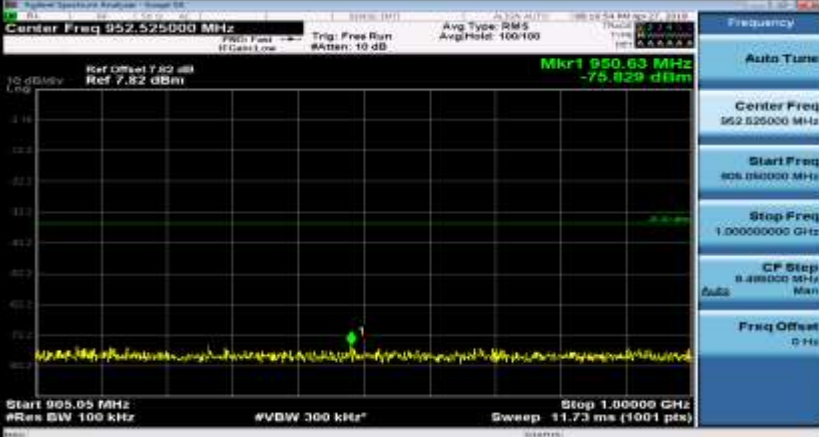
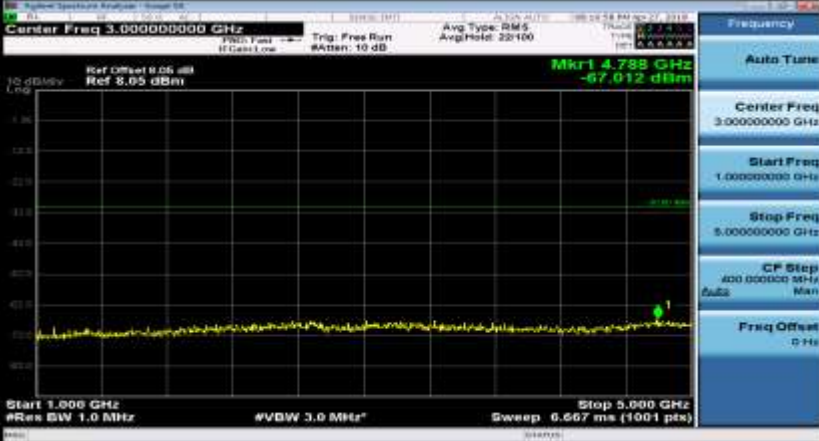

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

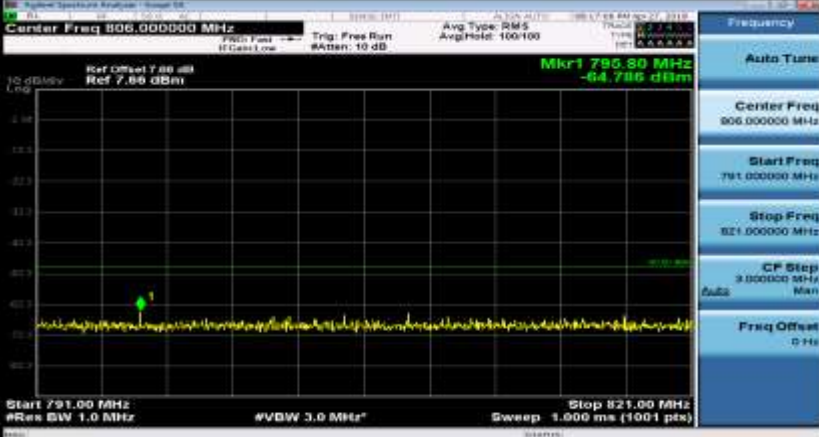
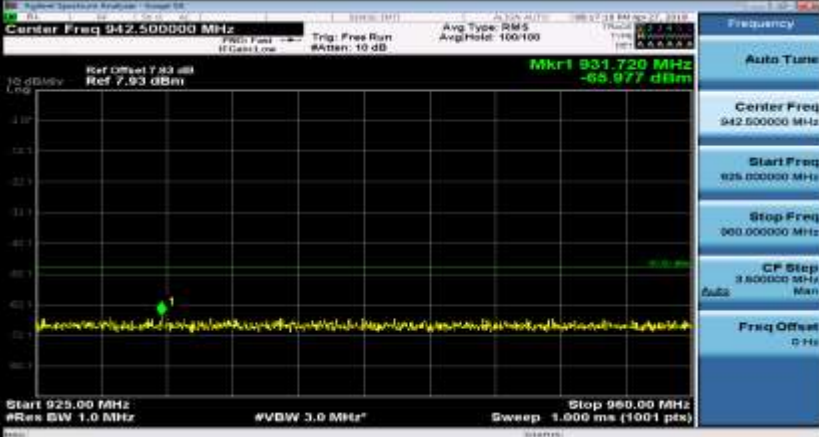
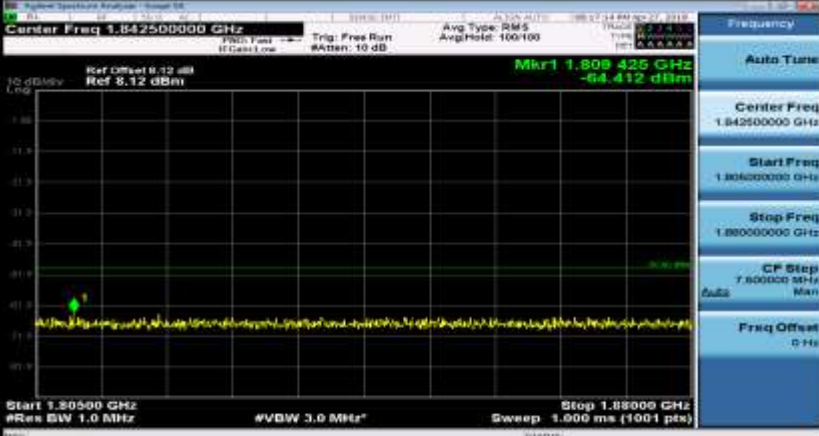
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Channel Bandwidth=Highest (#BWH MHz)_QPSK_LCH_1RB#max	
General	
General	
General	


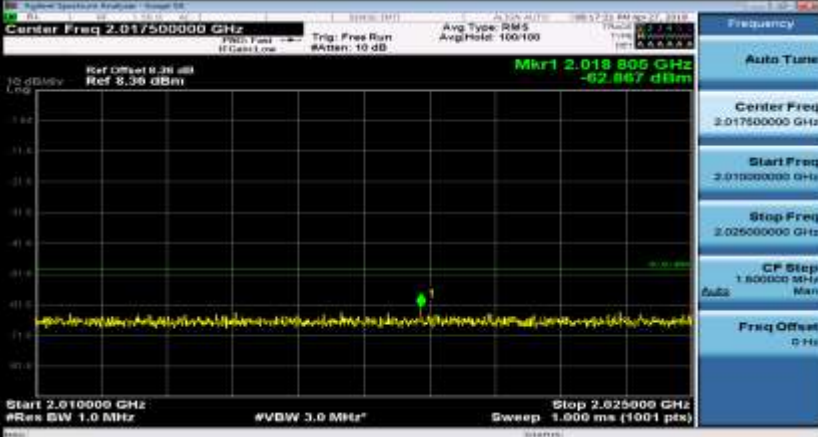

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General			
General			
General			

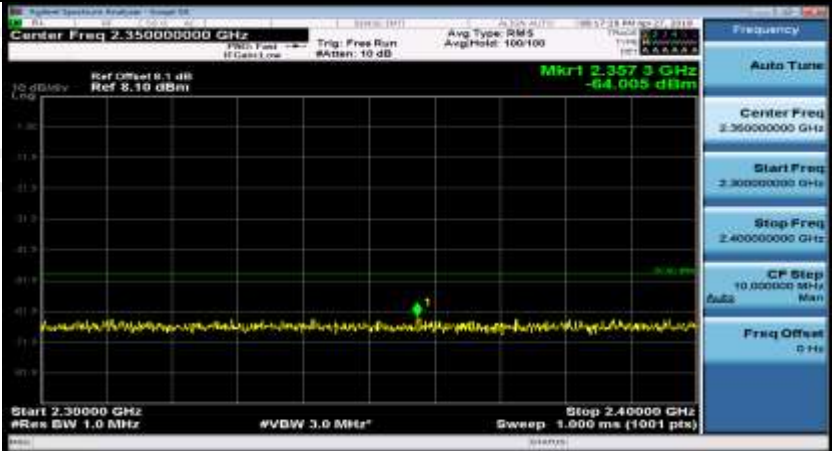
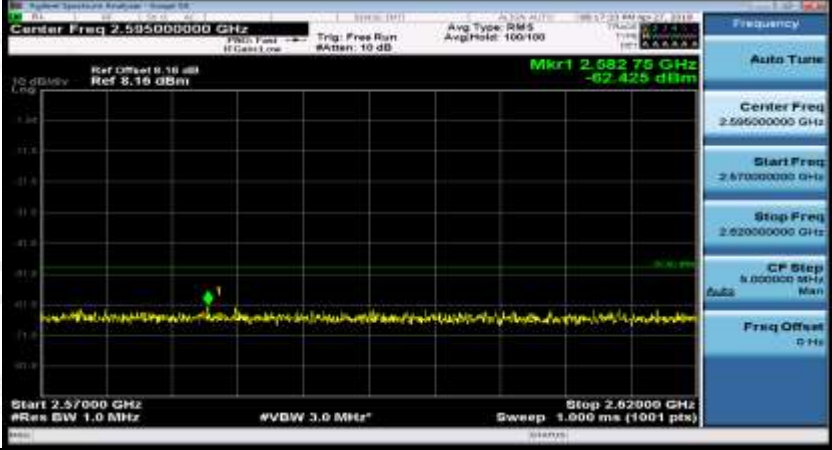
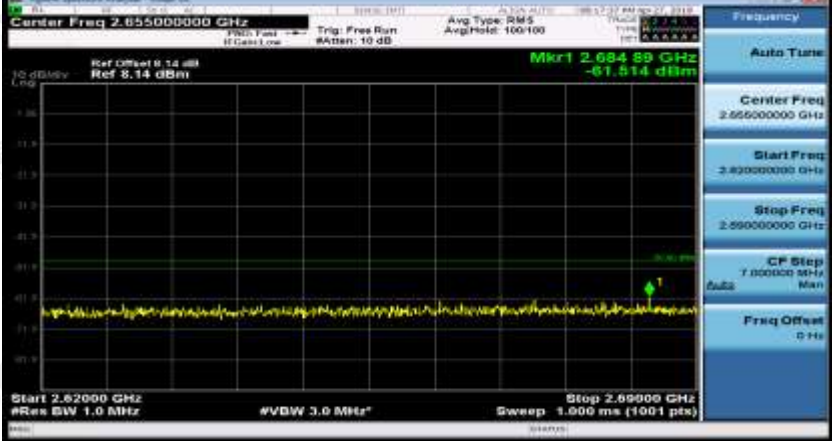
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Co-existence			
Co-existence			
Co-existence			

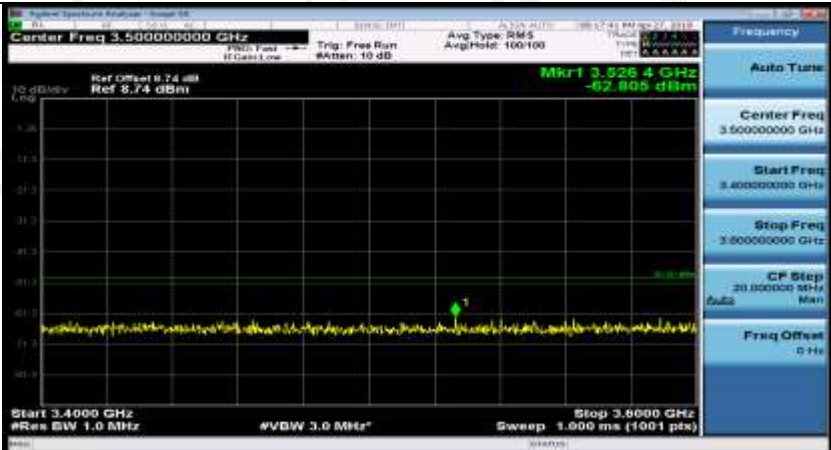

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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

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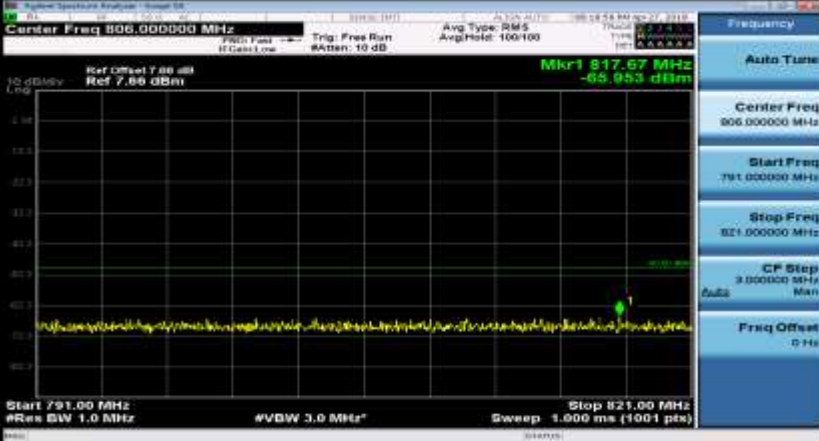
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_FullRB#0	
General	

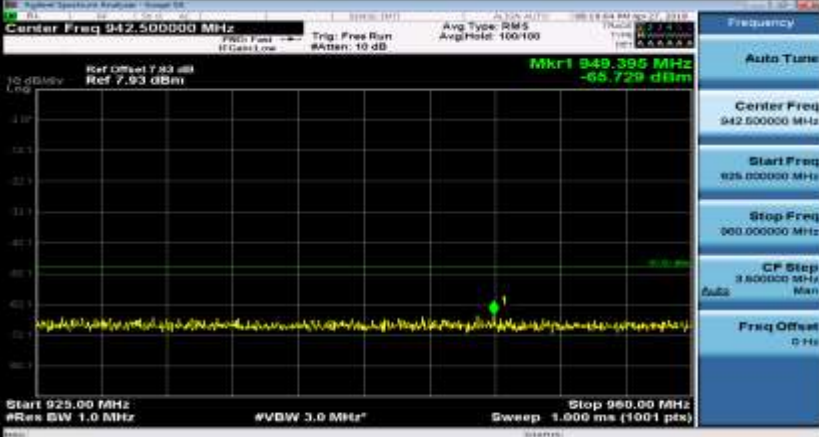
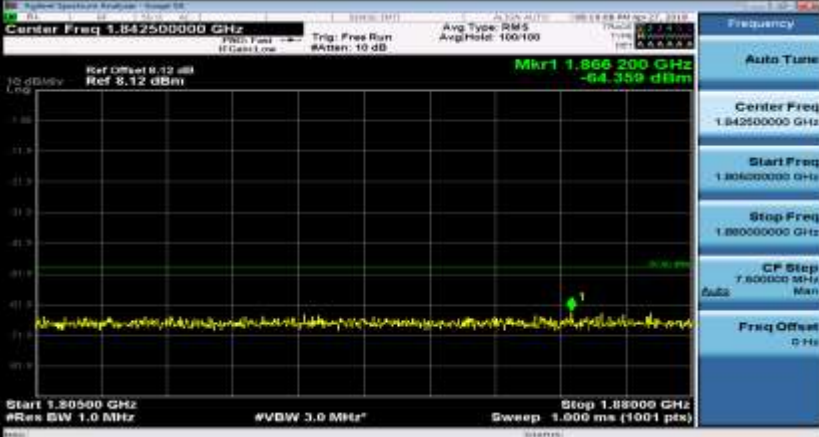
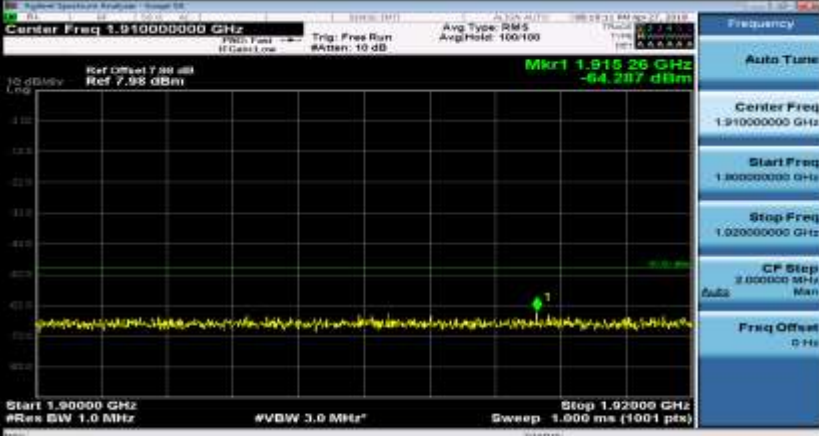
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General			
General			
General			

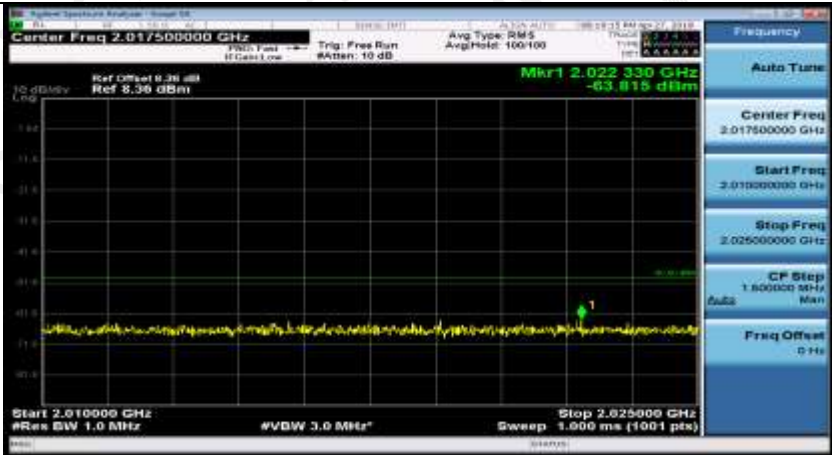
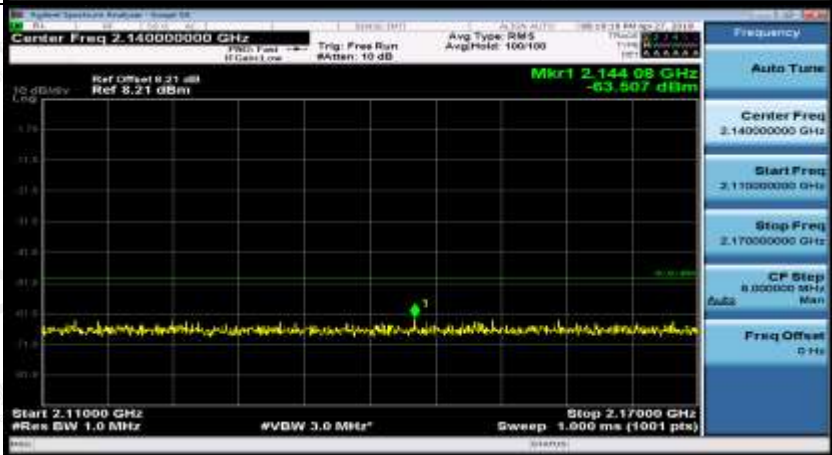

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General			
General			
Co-existence			

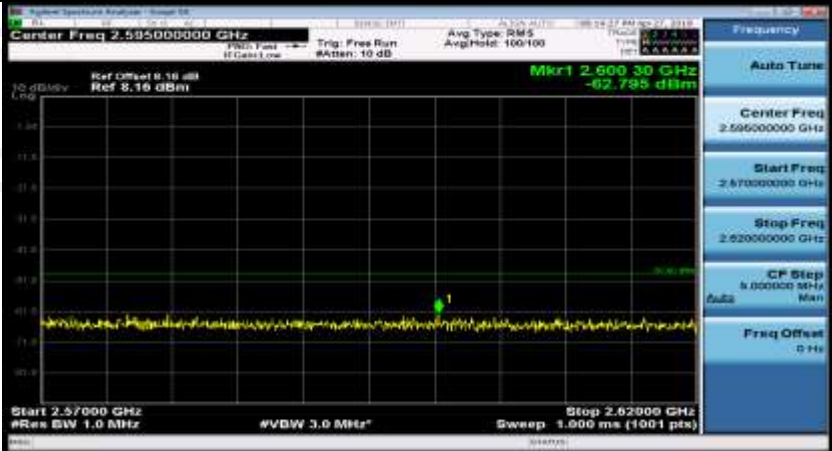
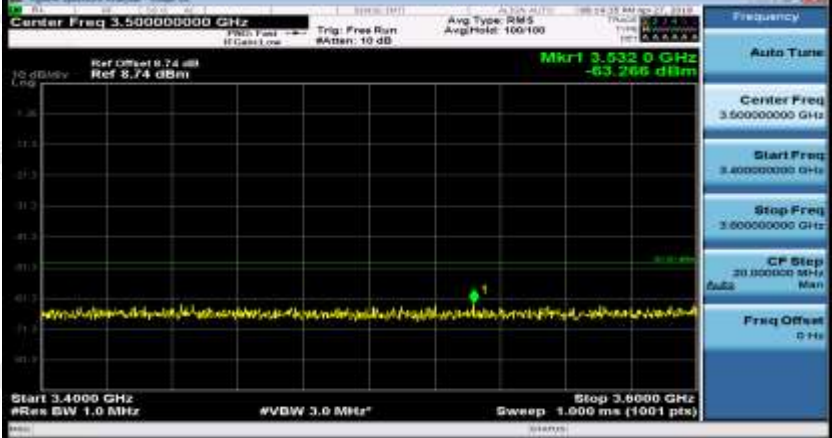
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Co-existence			
Co-existence			
Co-existence			

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Co-existence		 <p>Center Freq 2.017500000 GHz Mkr1 2.022330 GHz -63.015 dBm Start 2.010000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 2.025000 GHz Sweep 1.000 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 2.140000000 GHz Mkr1 2.14408 GHz -63.507 dBm Start 2.130000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 2.150000 GHz Sweep 1.000 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 2.350000000 GHz Mkr1 2.3297 GHz -63.436 dBm Start 2.340000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 2.360000 GHz Sweep 1.000 ms (1001 pts)</p>	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_1RB#0	
General	
General	

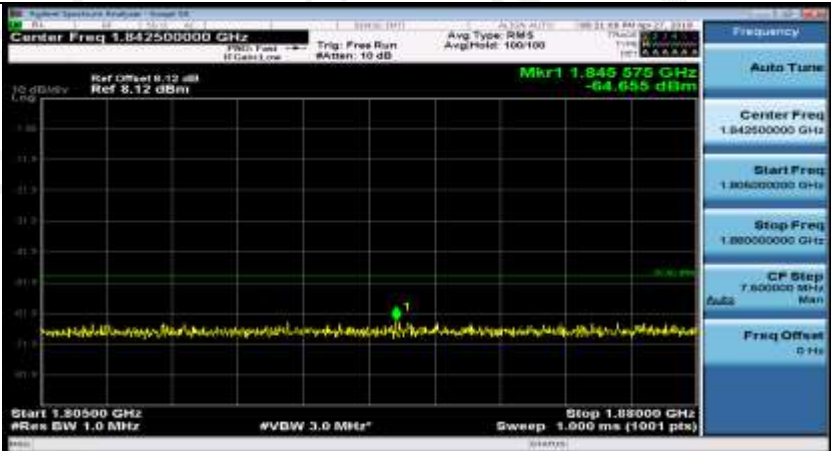
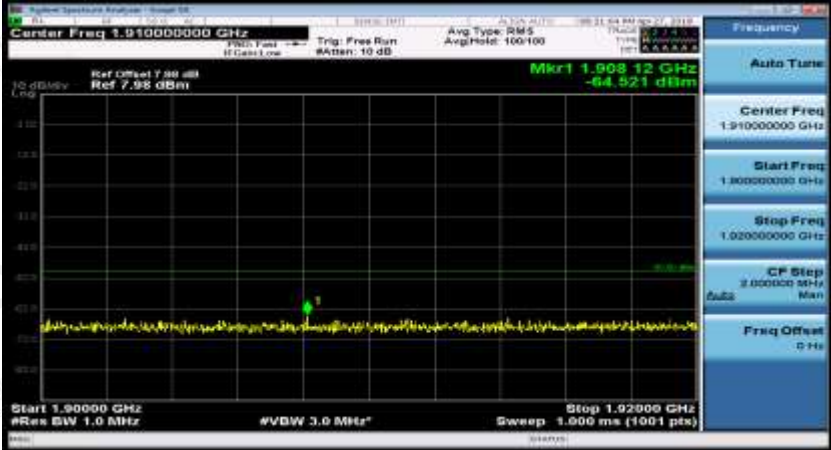
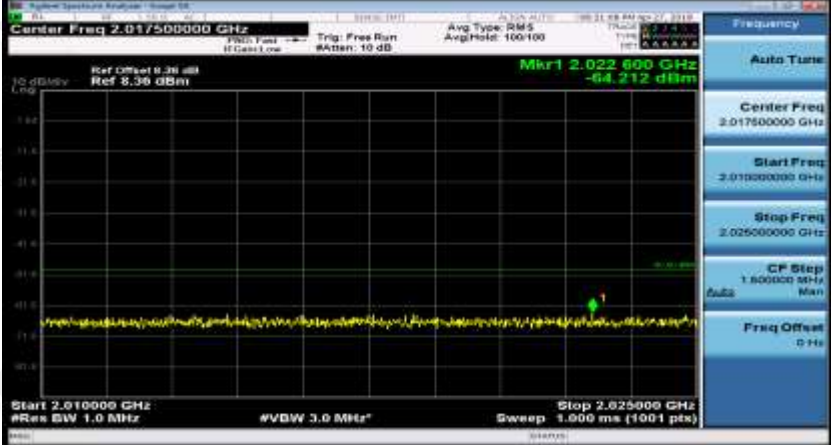
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General			
General			
General			

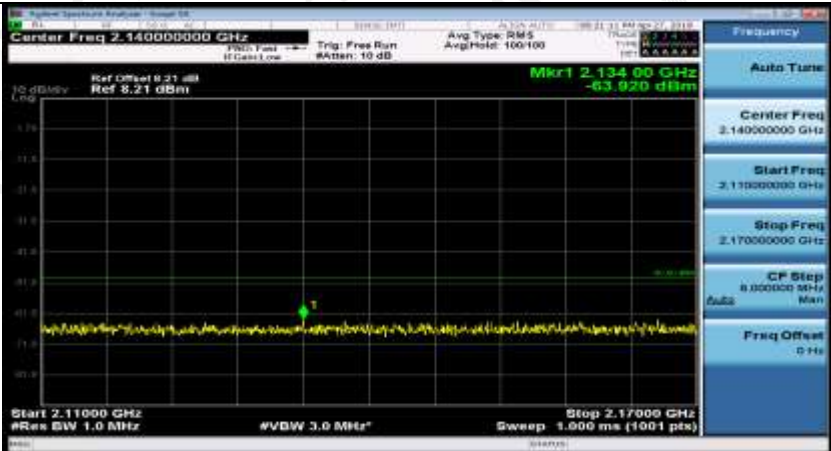
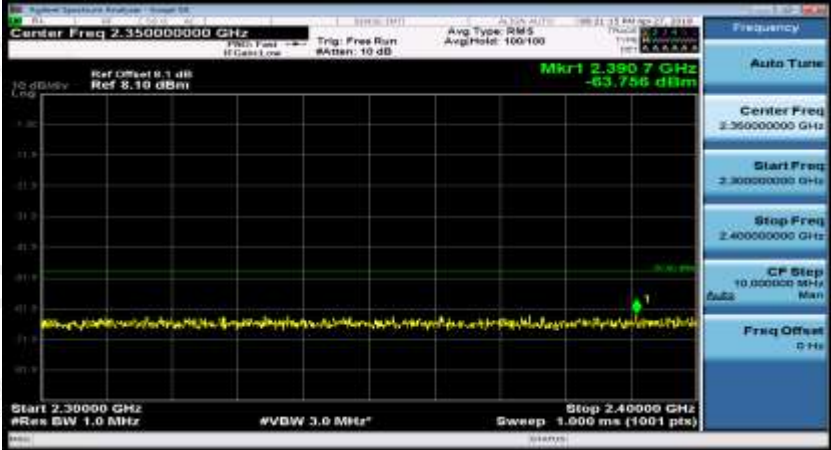
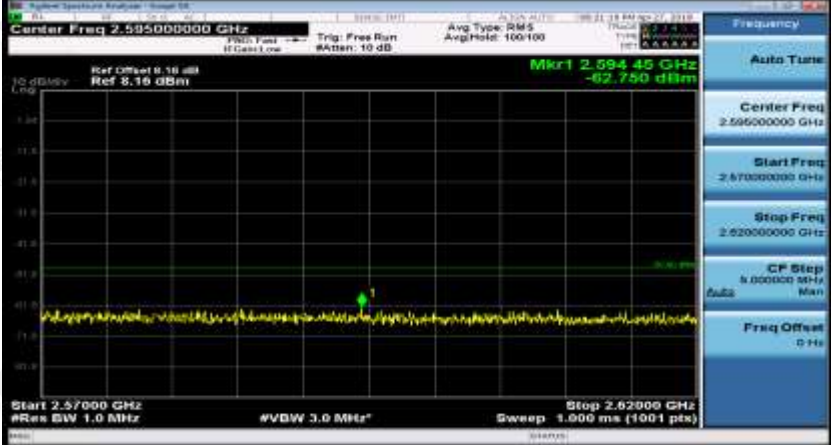
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General			
Co-existence			
Co-existence			

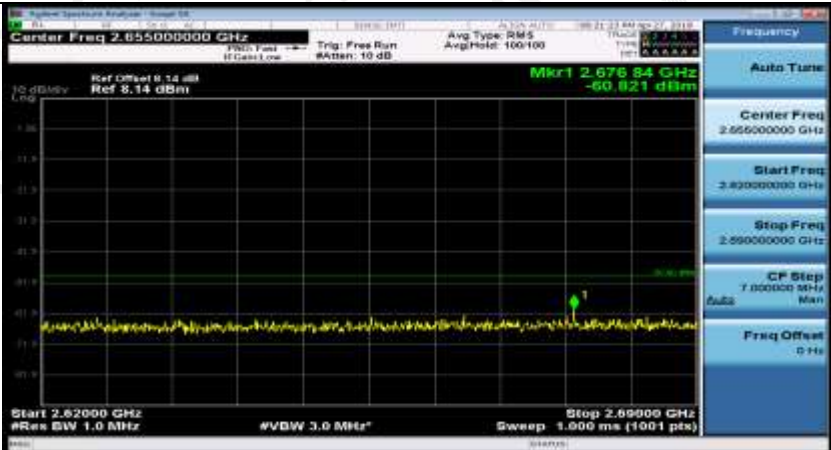

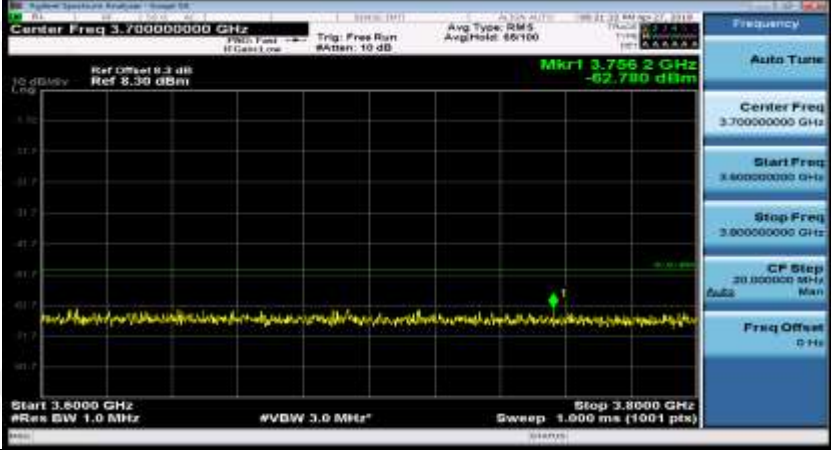
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Co-existence	
Co-existence	
Co-existence	

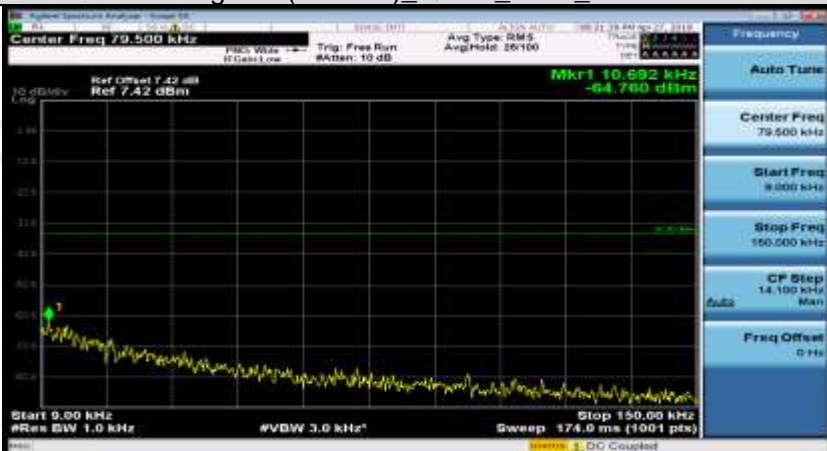

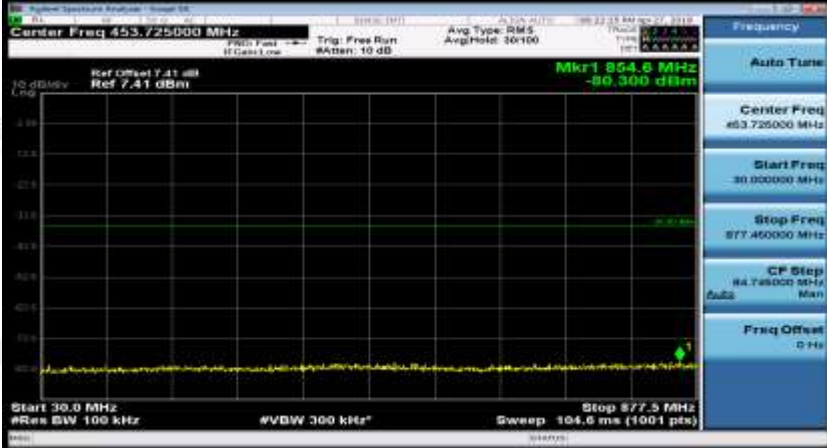
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Co-existence		
Co-existence		
Co-existence		

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_1RB#max		
General		
General		
General		

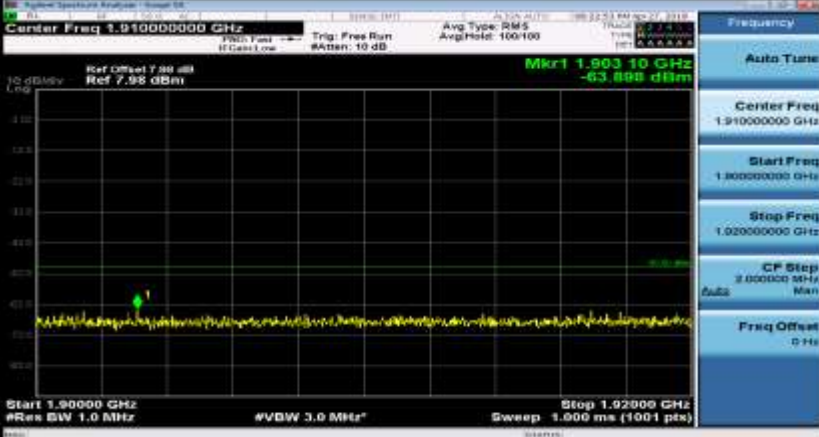
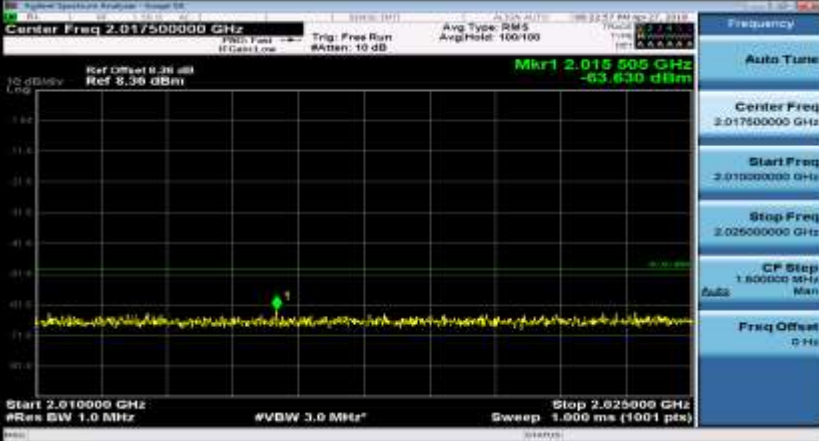
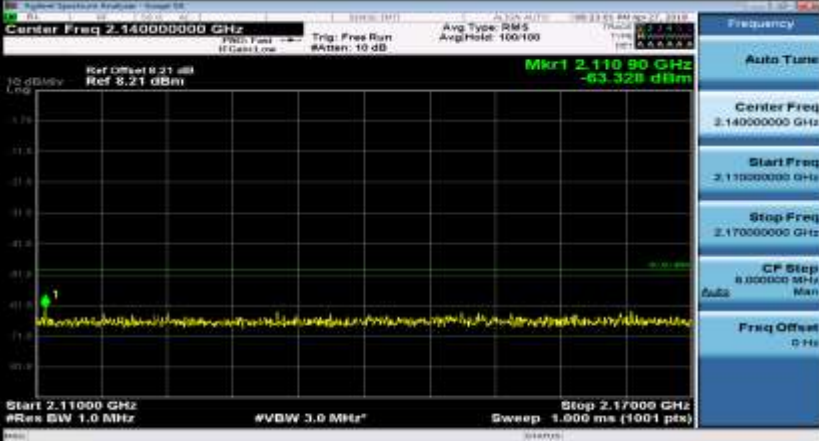
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General			
General			
General			

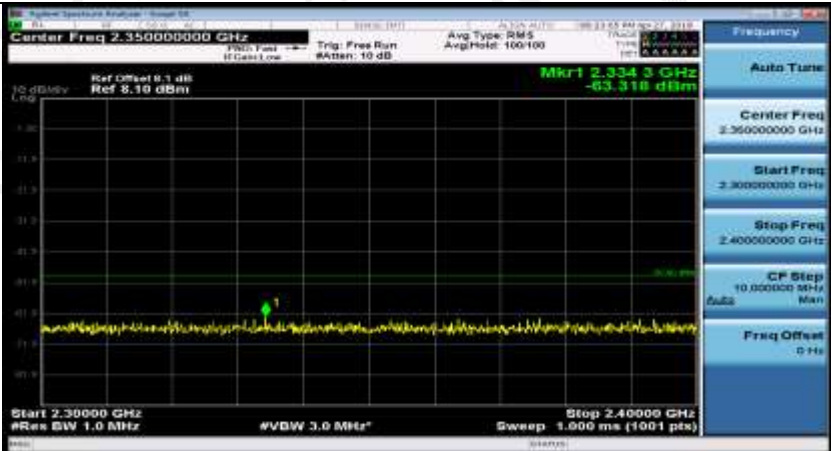

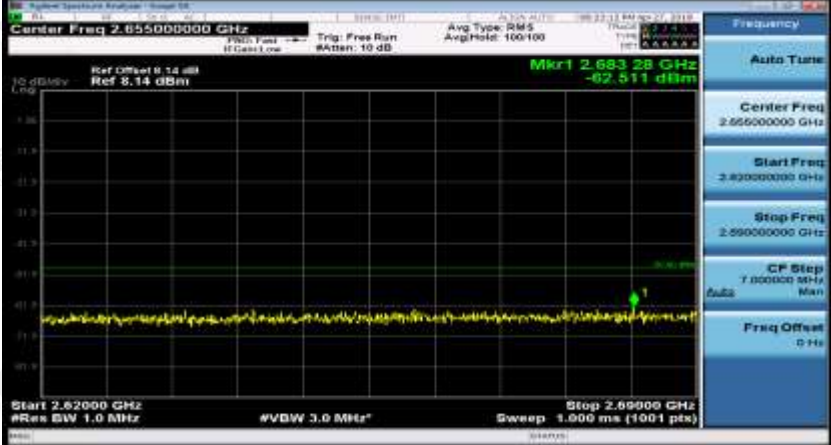
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Co-existence			
Co-existence			
Co-existence			

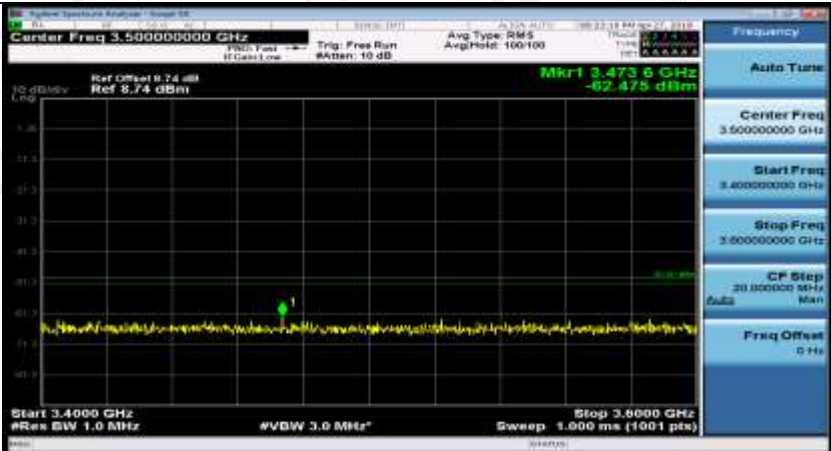
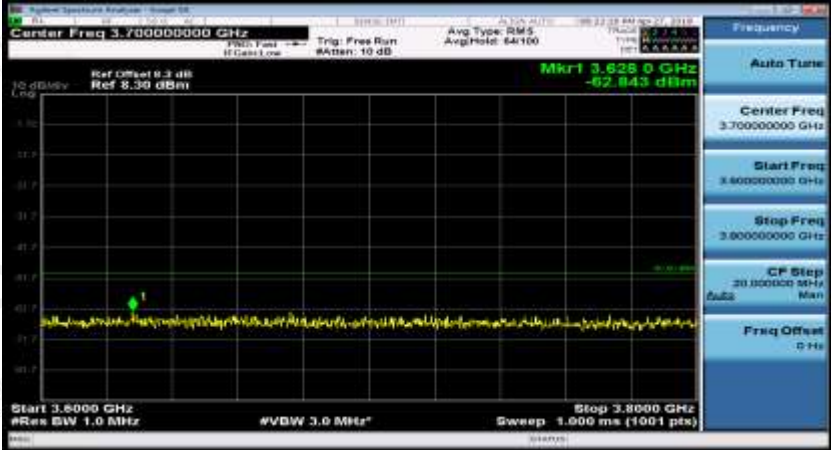
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Co-existence	
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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_FullIRB#0

General	
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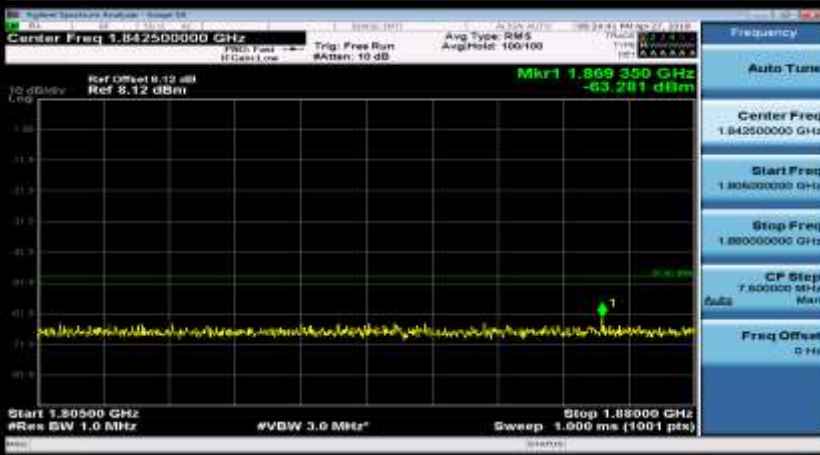
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General			
General			
General			

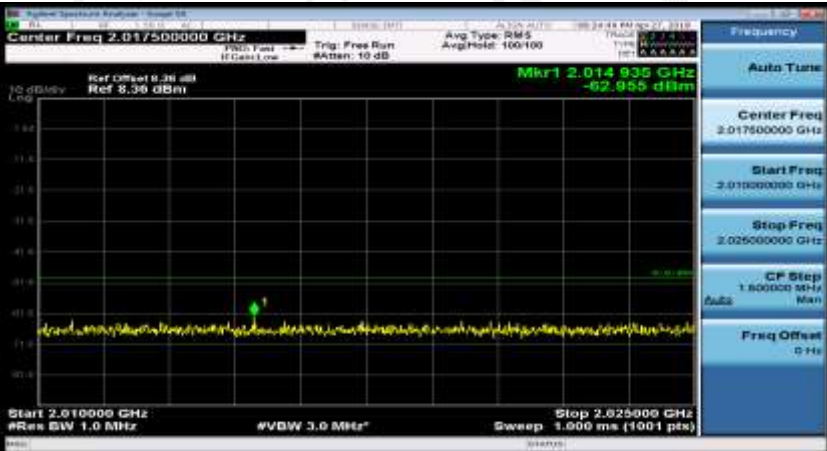
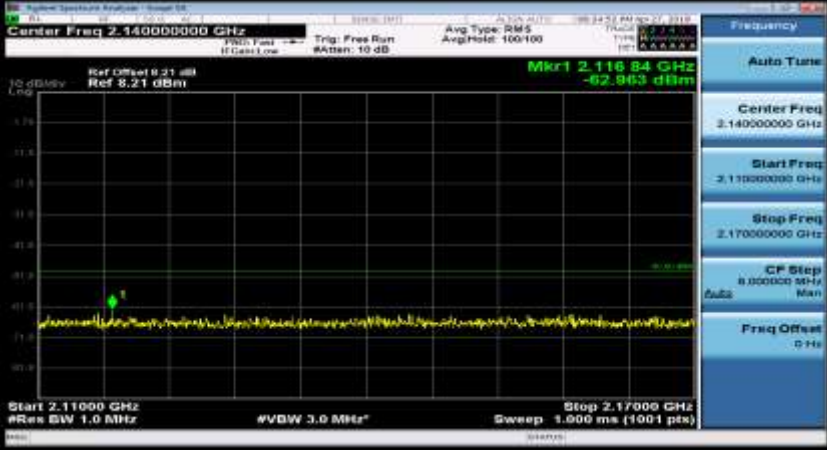
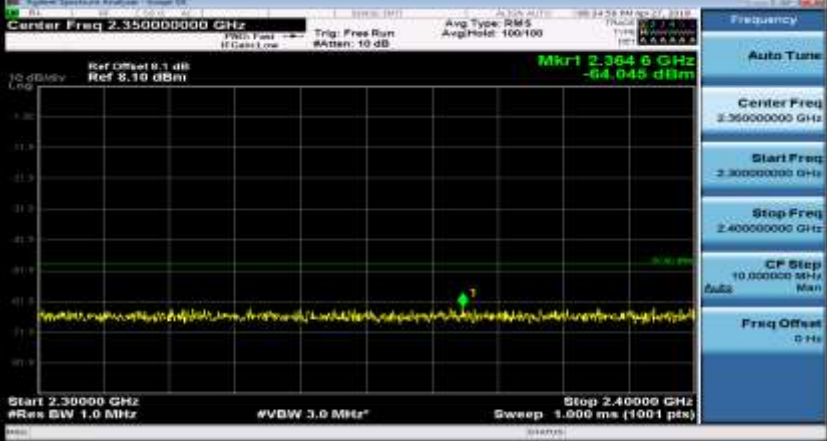
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General			
General			
Co-existence			

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Co-existence	
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Co-existence	

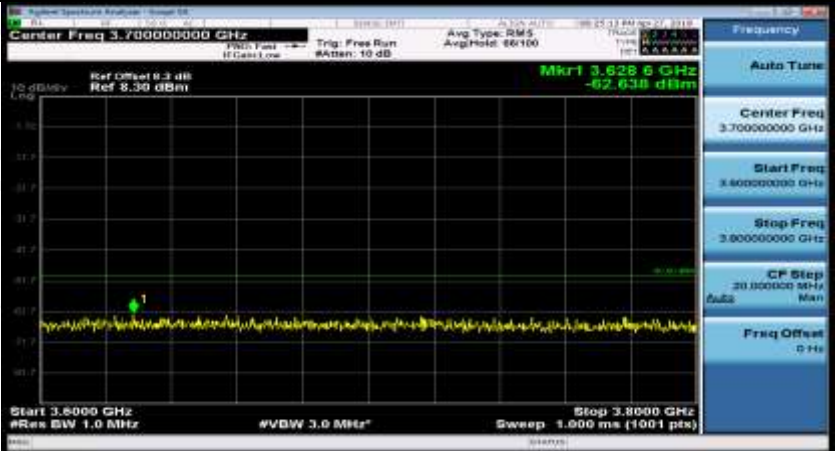
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Co-existence	
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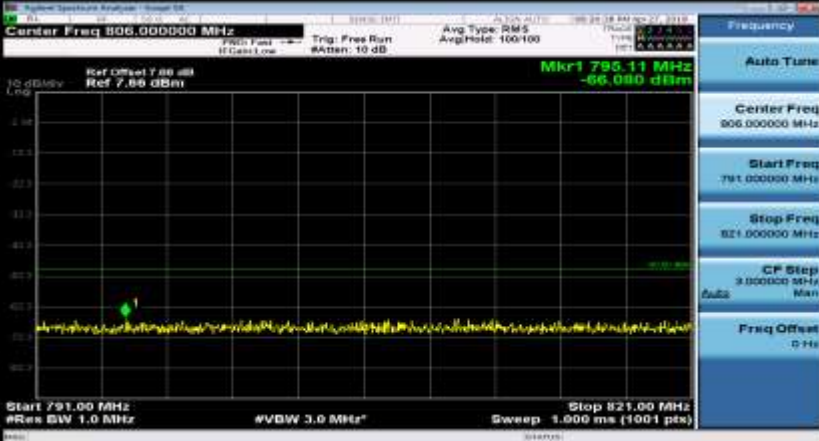
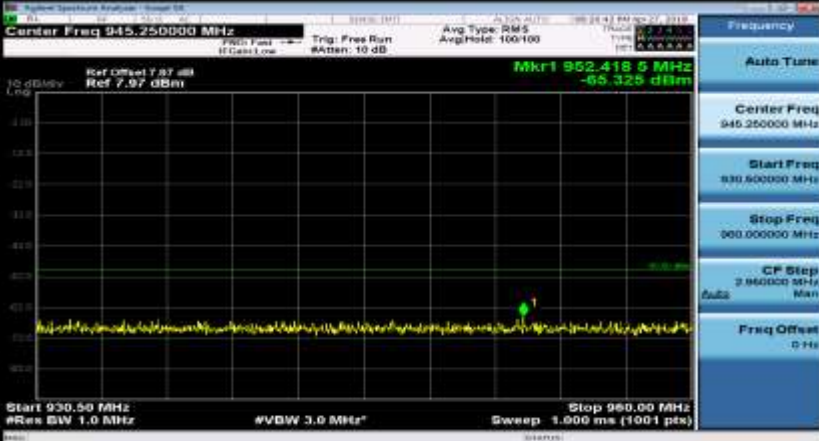
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_1RB#0	
General	
General	

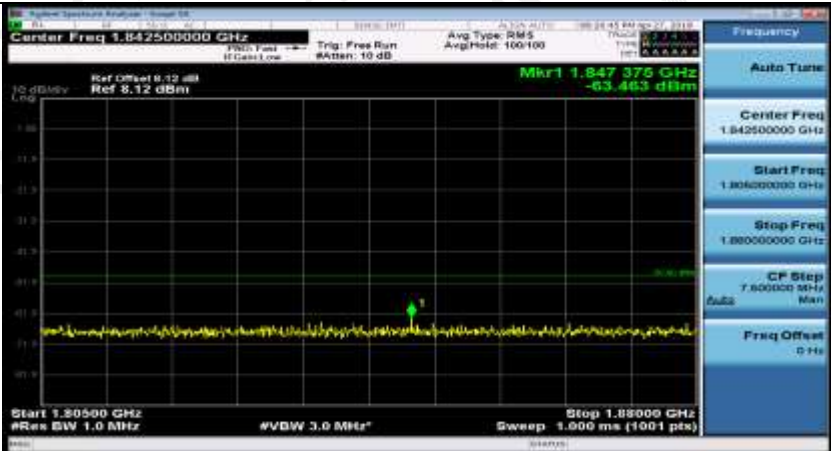
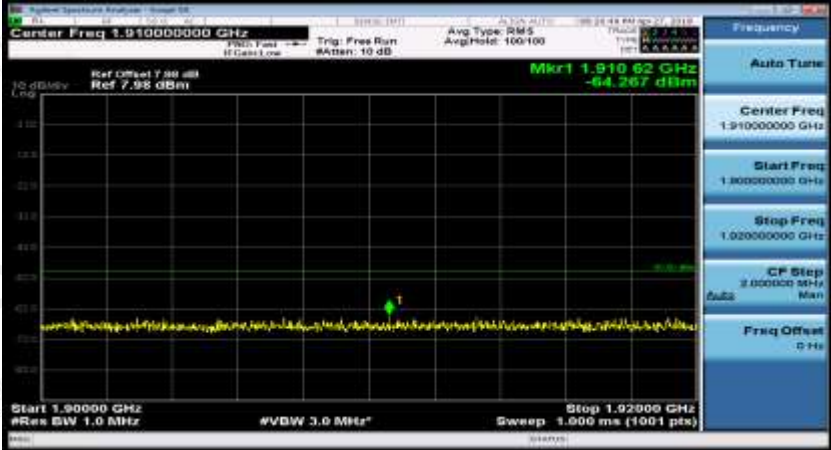
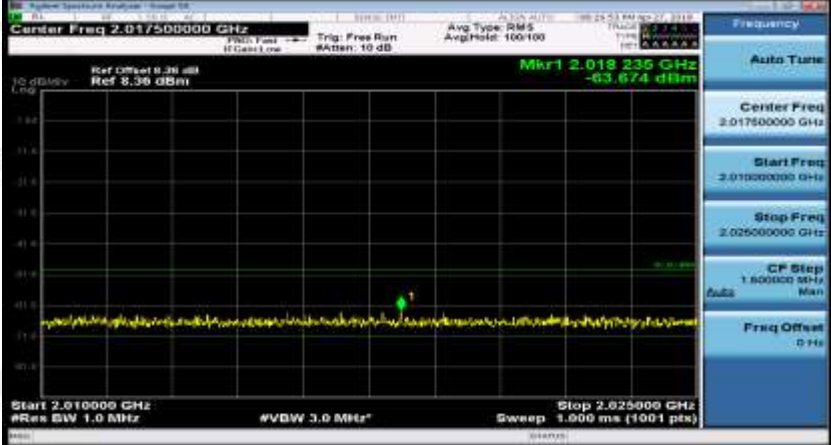
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General			
General			
General			

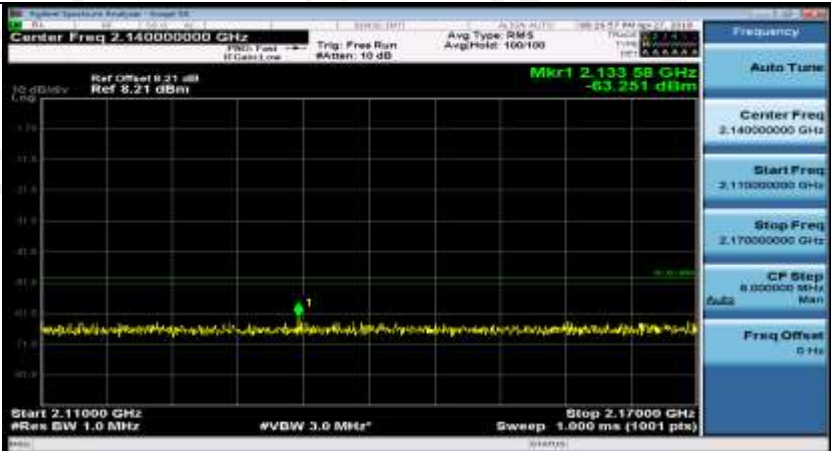
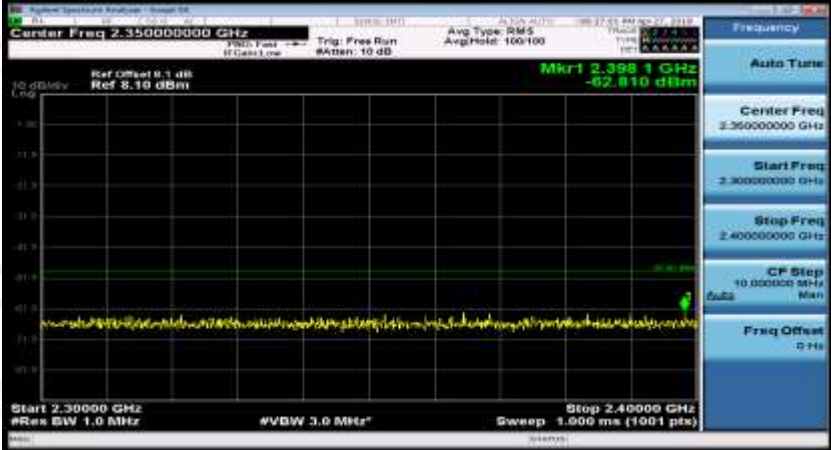
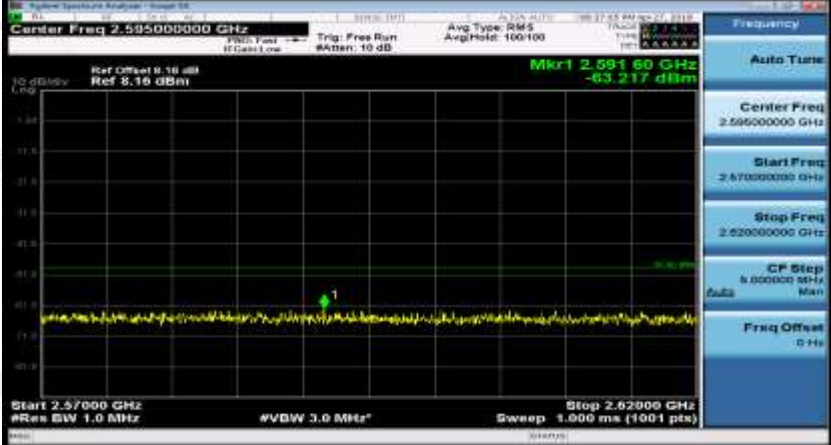
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General			
Co-existence			
Co-existence			

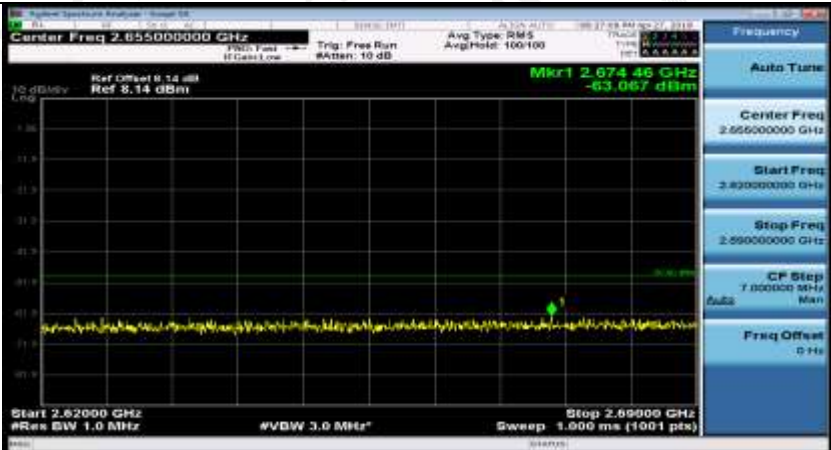
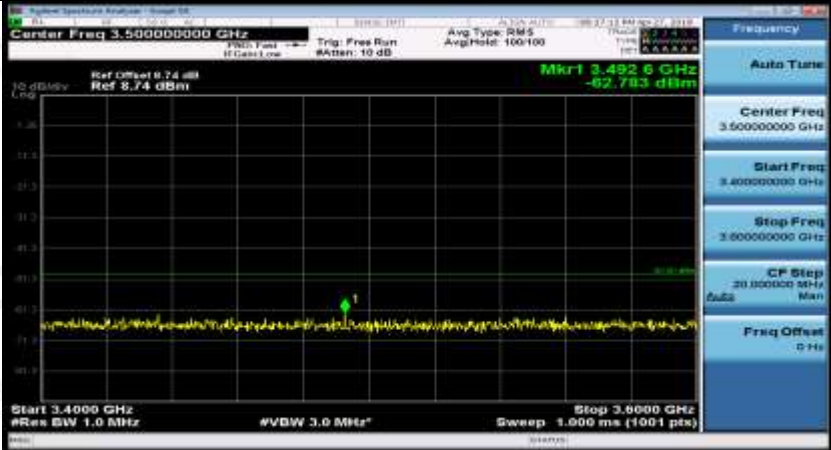
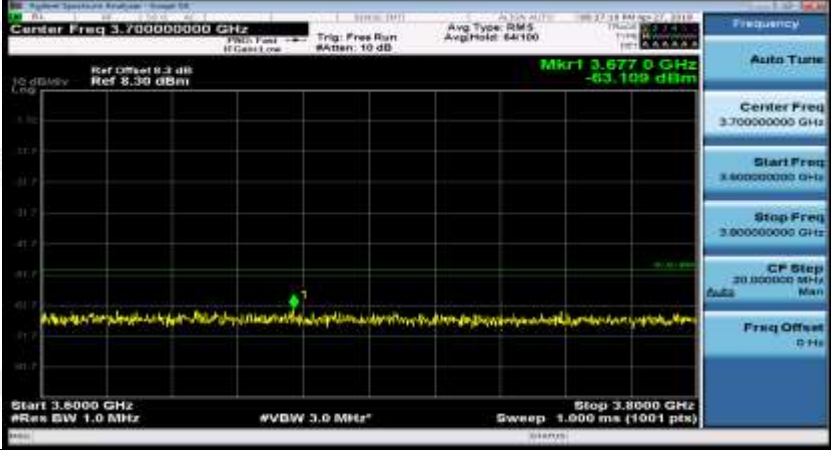
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Co-existence	
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Co-existence		
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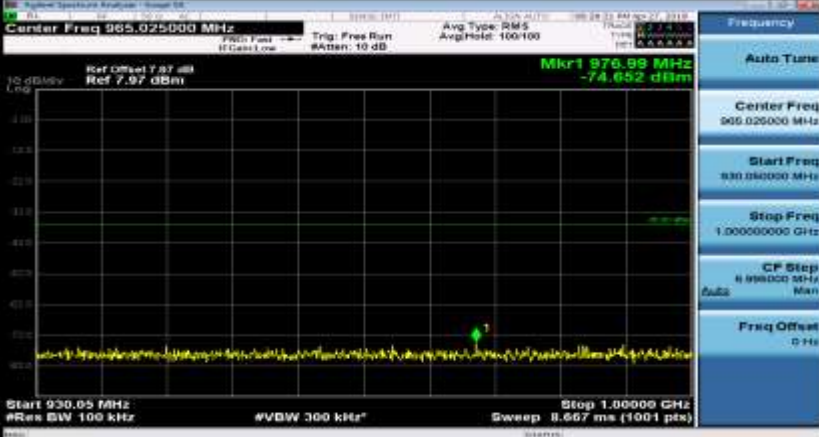
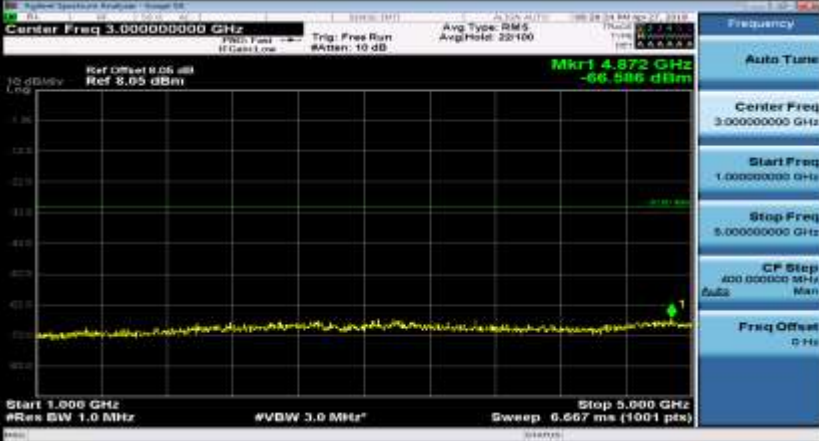

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

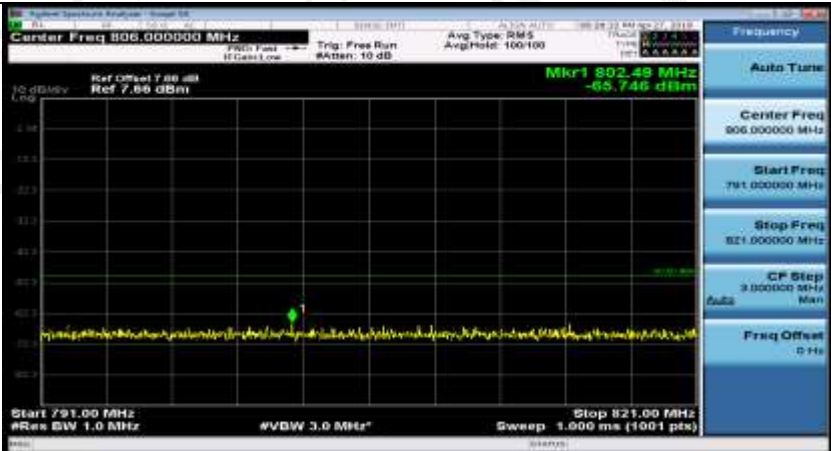
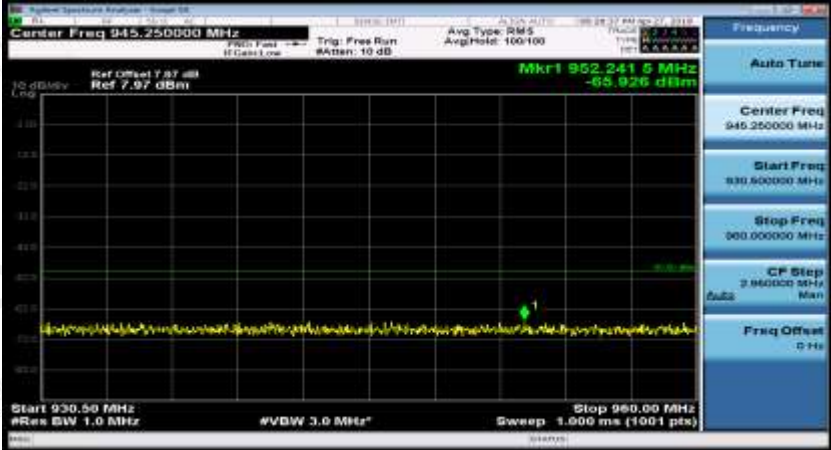
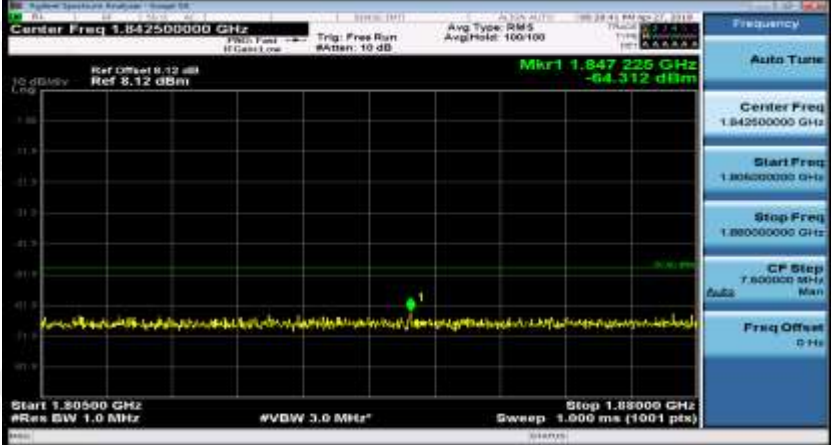
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Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_1RB#max		
General		
General		
General		

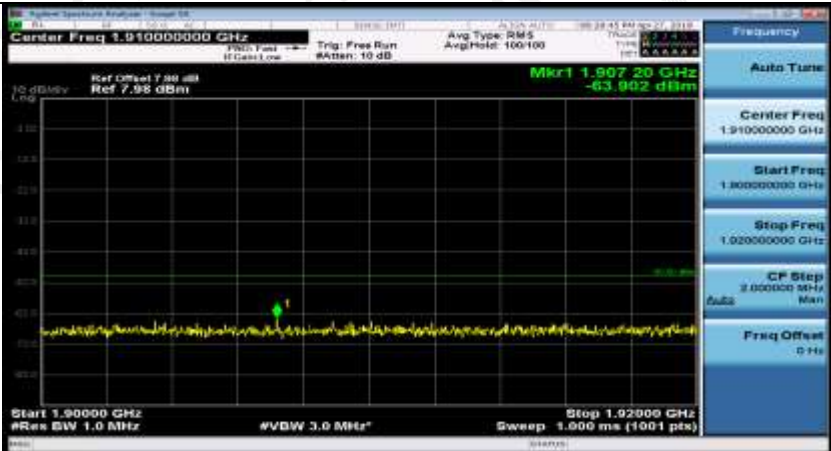
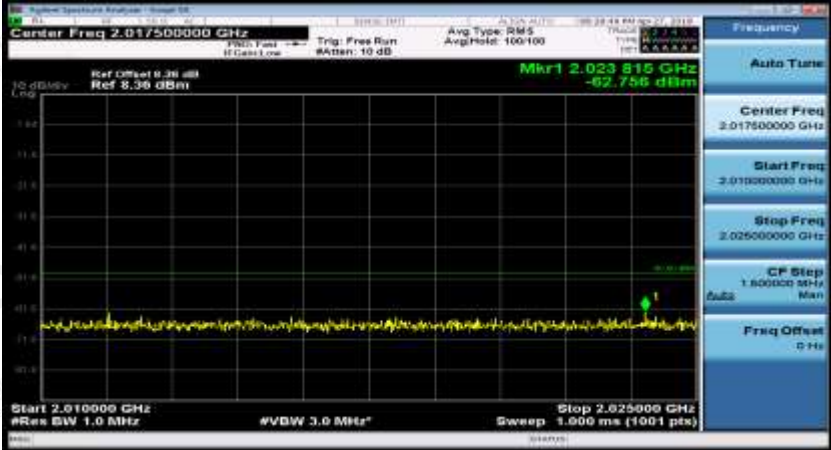
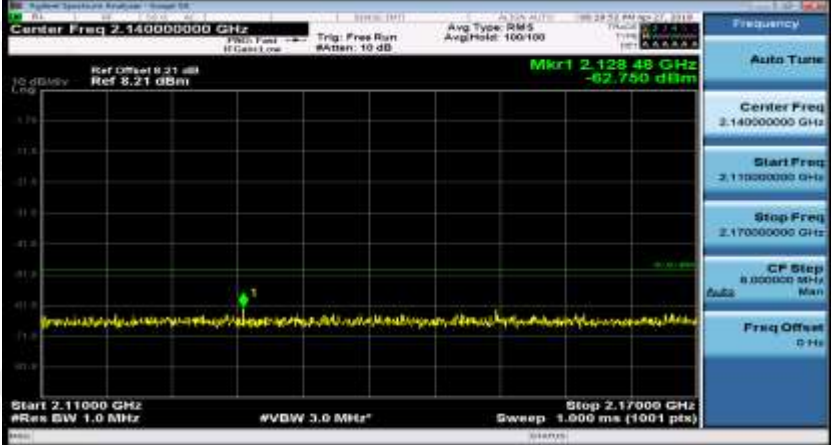
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General			
General			
General			

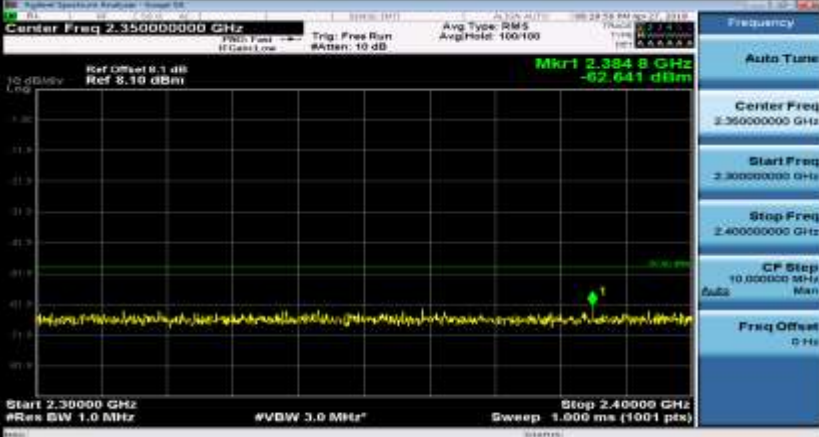
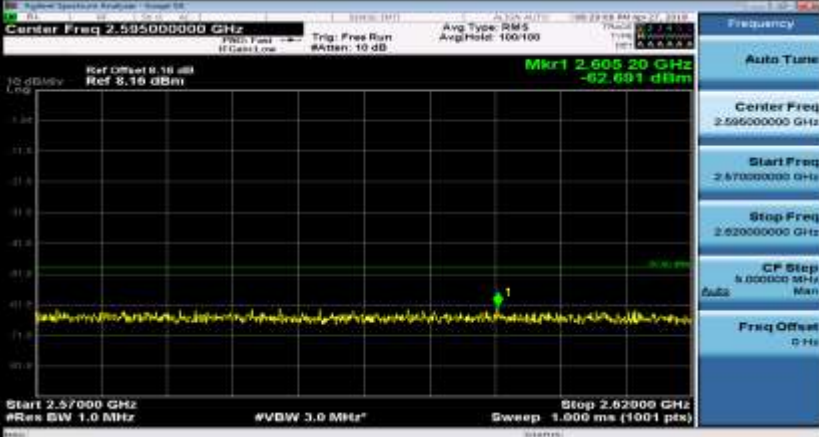
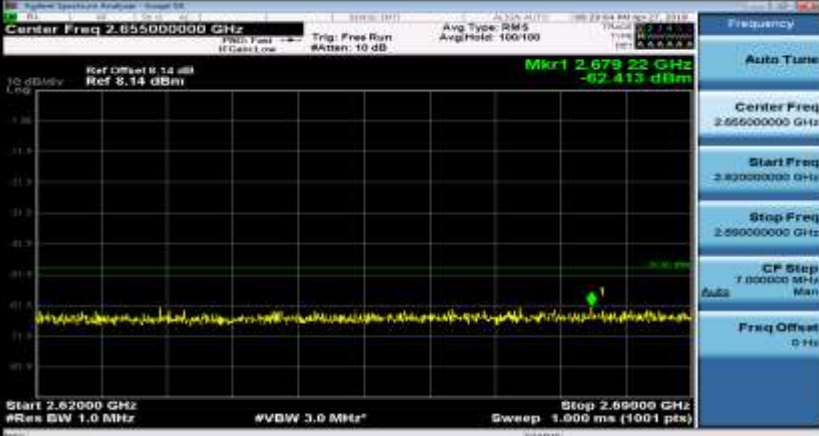
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Co-existence	
Co-existence	
Co-existence	

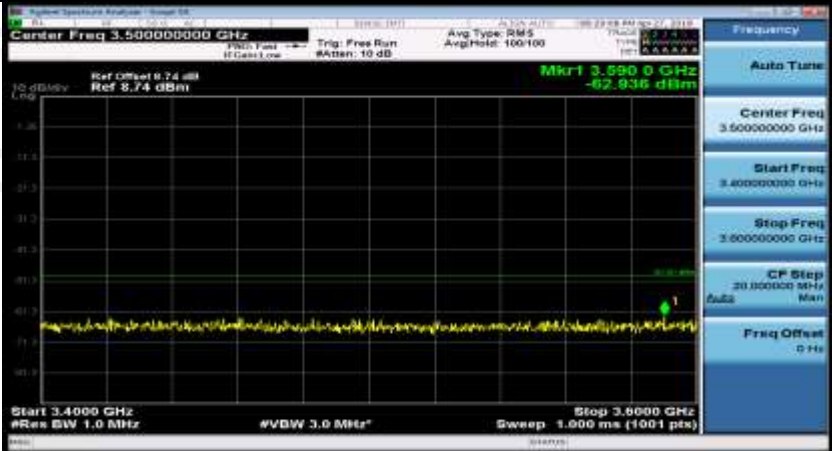
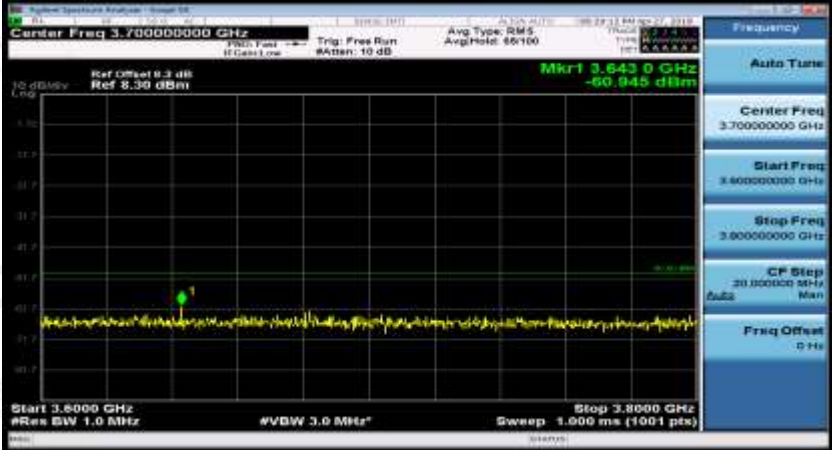
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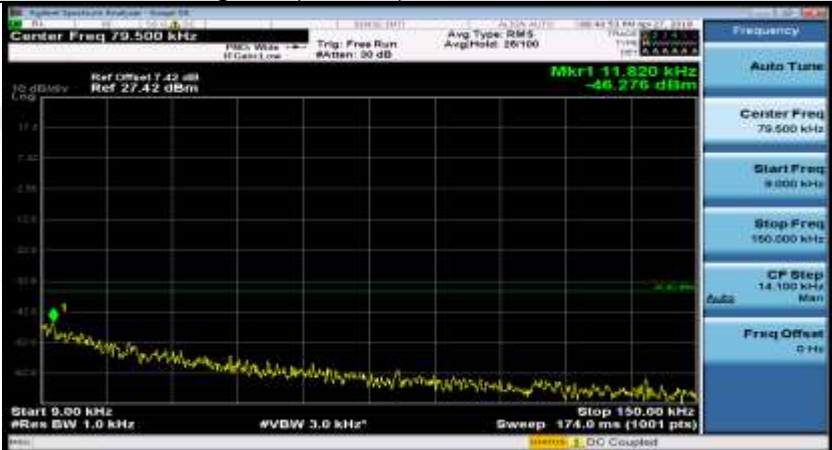
Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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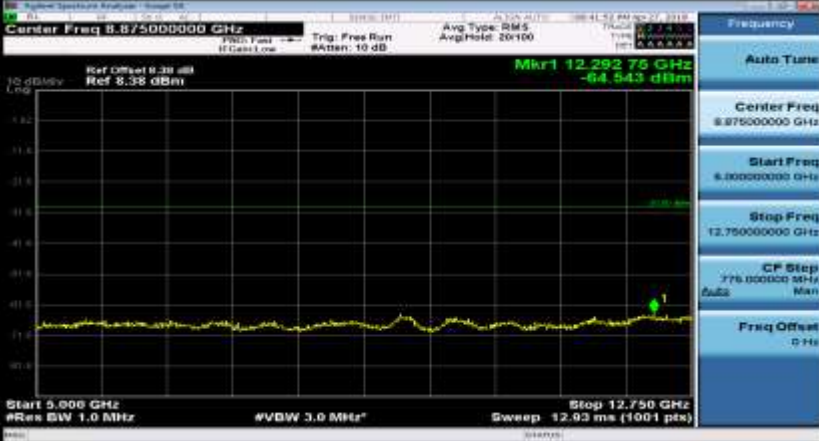
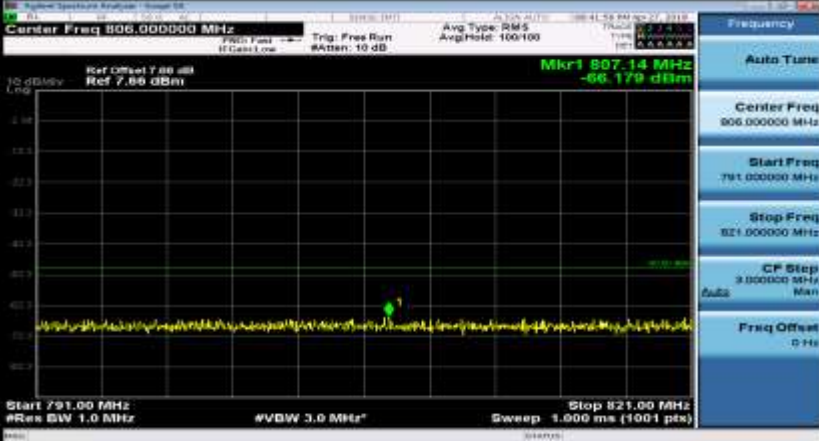
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_FullIRB#0	
General	

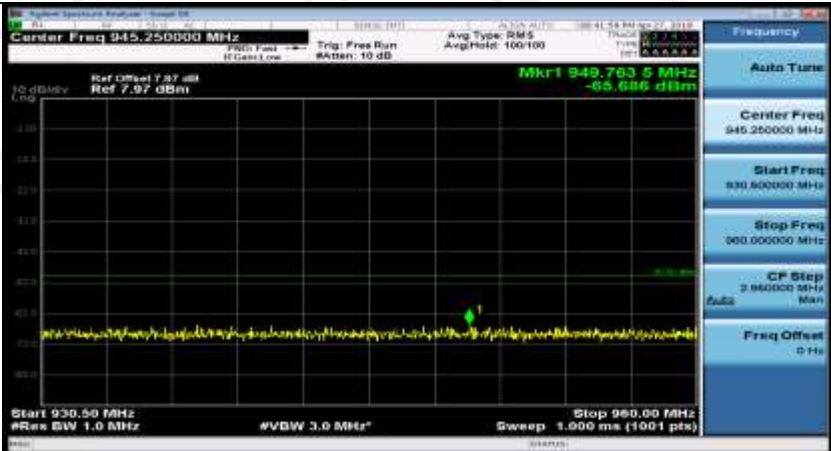

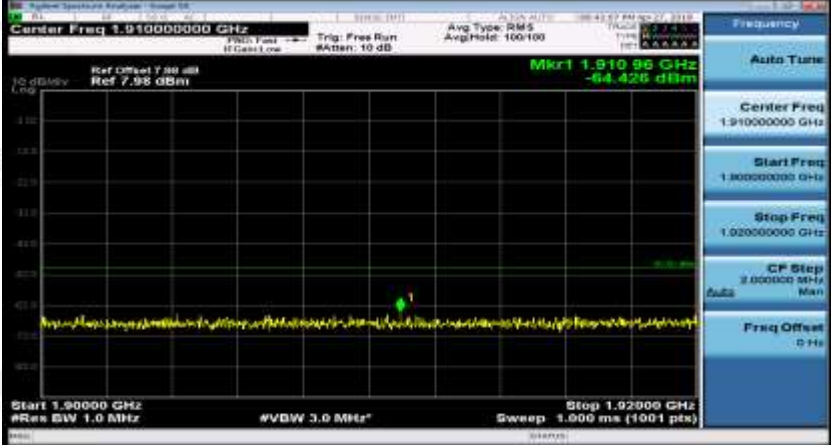
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General			
General			
General			

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General			
General			
Co-existence			

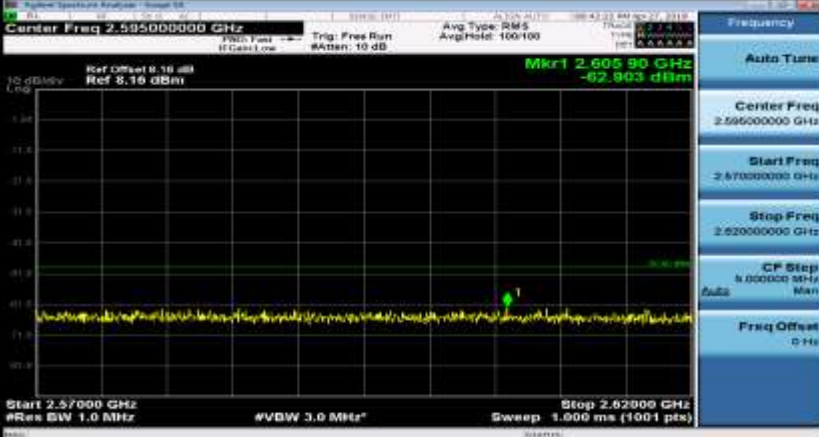
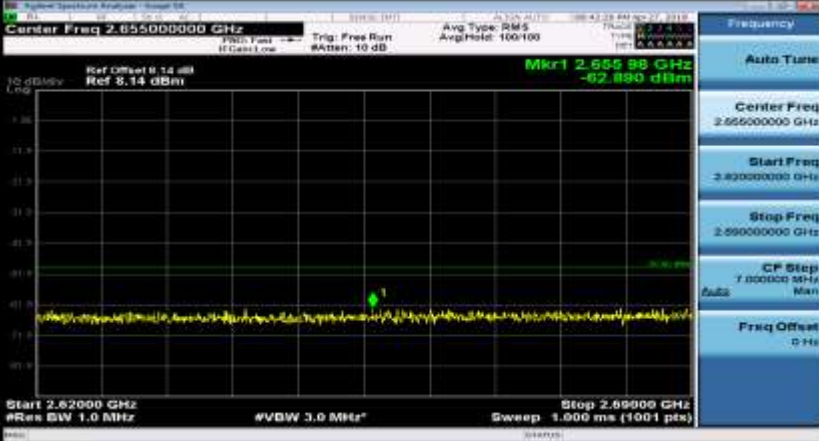
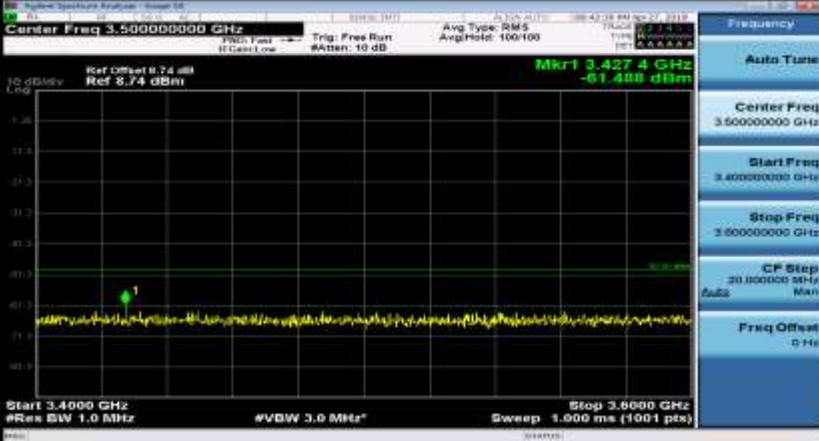
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Co-existence	
Co-existence	
Co-existence	

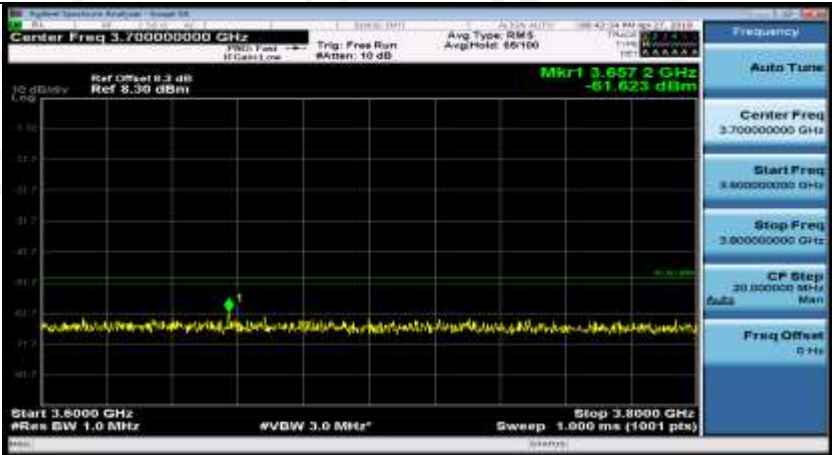
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	10 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

Test Graphs

NTNV

Channel Bandwidth=Highest

Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_ORB#0	
LCH	
LCH	

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7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment	NC				
Test Frequencies	Mid range				
Test Channel Bandwidths	Lowest, 1.4MHz, Highest 10MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment	NC				
Test Frequencies	Low range for FInterferer below FDL_low High range for FInterferer above FDL_high				
Test Channel Bandwidths	Lowest, 1.4MHz, Highest 10MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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Narrow Band

Test Environment	NC				
Test Frequencies	Mid range				
Test Channel Bandwidths	Lowest, 1.4MHz, Highest 10MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration				Downlink Configuration
Ch BW	Mod' n	Ch BW	Mod' n	Ch BW	Mod' n
1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz	QPSK
5MHz	QPSK	5MHz	QPSK	10MHz	QPSK
10MHz	QPSK	10MHz	QPSK	20MHz	QPSK
Verdict	Pass				

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9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band	Band 8					
Test Environment	NC					
Test Frequencies	Mid range					
Test Channel Bandwidths	Lowest, 1.4MHz, Highest 10MHz					
Test Parameters for Channel Bandwidths						
	Downlink Configuration				Downlink Configuration	
Ch BW	Mod' n	Ch BW	Mod' n	Ch BW	Mod' n	Ch BW
1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz
5MHz	QPSK	5MHz	QPSK	5MHz	QPSK	5MHz
10MHz	QPSK	10MHz	QPSK	10MHz	QPSK	10MHz
Verdict	Pass					

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11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

TLTV

	Test Band			Band 8			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,1.4MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TLVL	1.4MHz	QPSK	Full	QPSK	6	Pass	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	50	Pass	≥ 95 %
	Verdict	Pass					

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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-78.23	-78.36	-78.73
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-62.12	-62.65	-62.84
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-67.11	-67.36	-67.87

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Appendix E for Band 20

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTHV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	22.42	Pass
					max	22.44	Pass
				Partial	0	22.53	Pass
					max	22.47	Pass
			Mid range	1	0	22.51	Pass
					max	22.48	Pass
				Partial	0	22.52	Pass
					max	22.57	Pass
			High range	1	0	22.46	Pass
					max	22.49	Pass
				Partial	0	22.59	Pass
					max	22.60	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	22.35	Pass
					max	22.35	Pass
				Partial	0	22.43	Pass
					max	22.41	Pass
			Mid range	1	0	22.31	Pass
					max	22.35	Pass
				Partial	0	22.41	Pass
					max	22.29	Pass
			High range	1	0	22.27	Pass
					max	22.38	Pass
				Partial	0	22.33	Pass
					max	22.40	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Full	0	-49.59	Pass
			Mid range	Full	0	-53.17	Pass
			High range	Full	0	-53.09	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Full	0	-52.75	Pass
			Mid range	Full	0	-52.76	Pass
			High range	Full	0	-52.62	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass

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			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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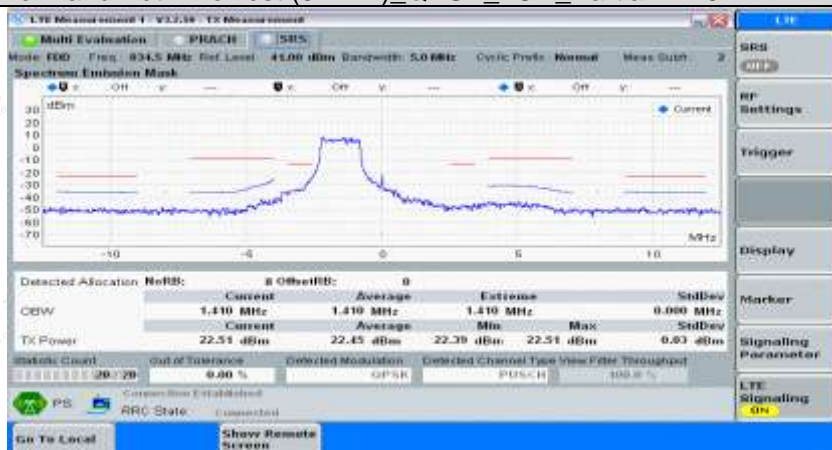
Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

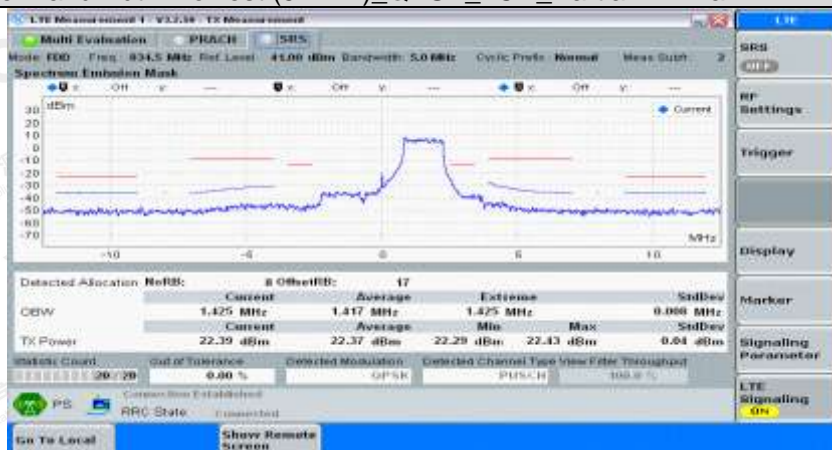
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0

QPSK



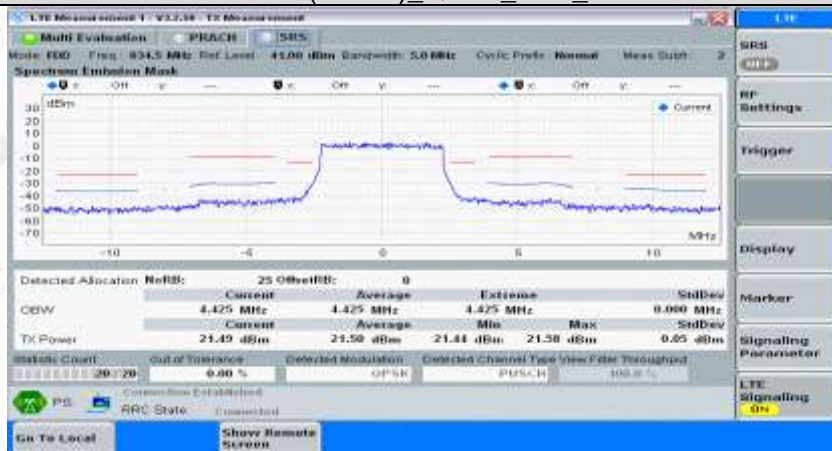
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

QPSK



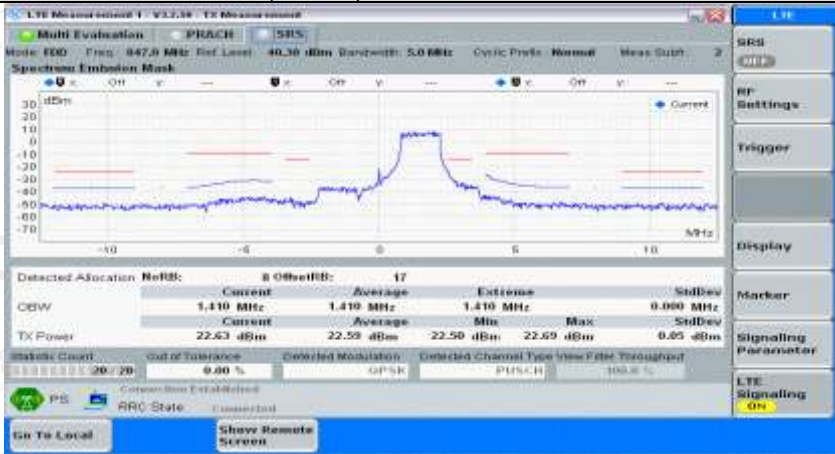
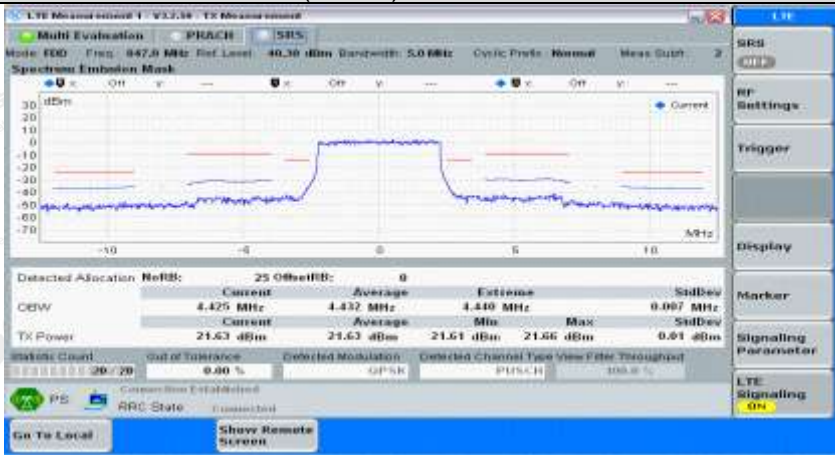
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0

QPSK

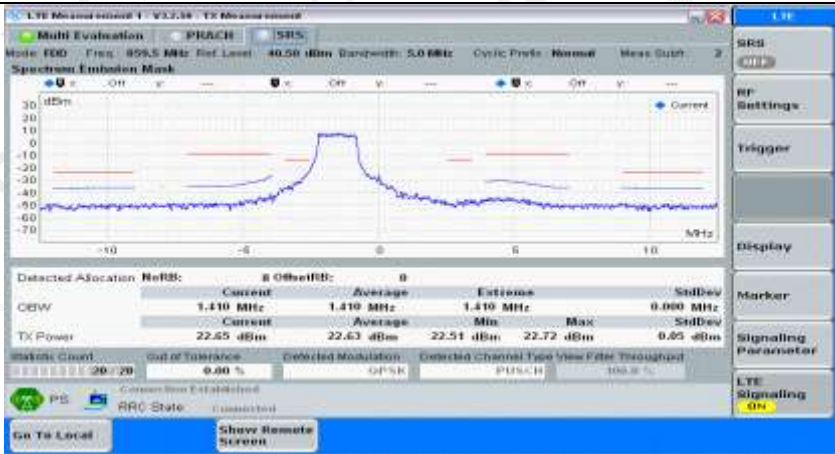
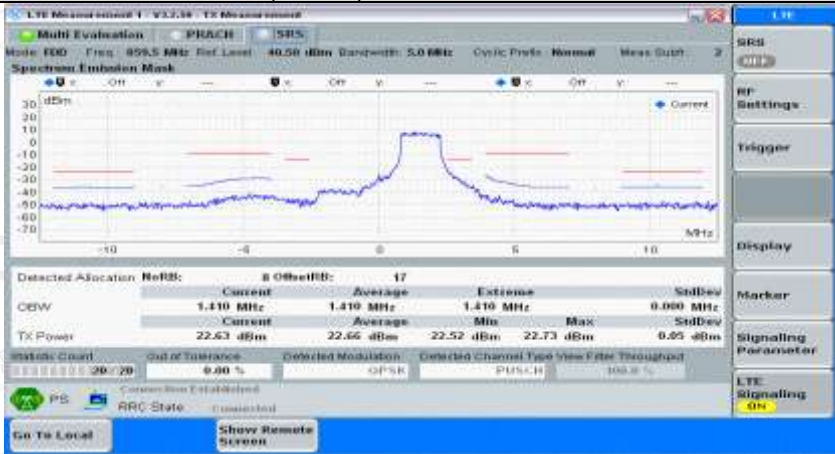
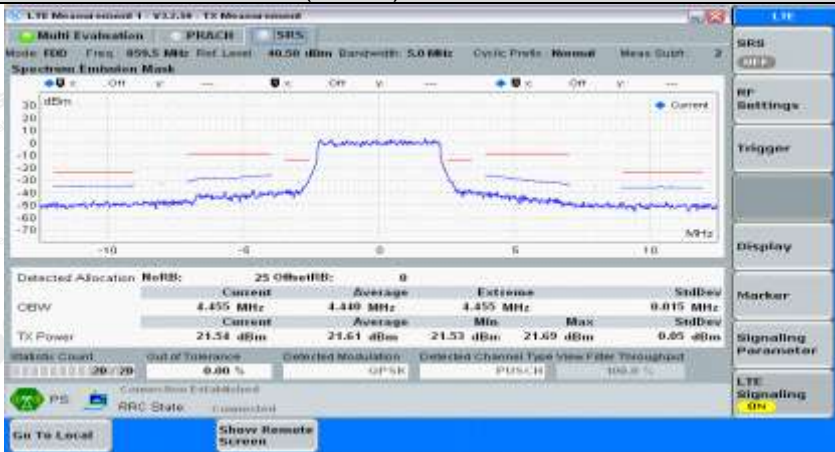


Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0

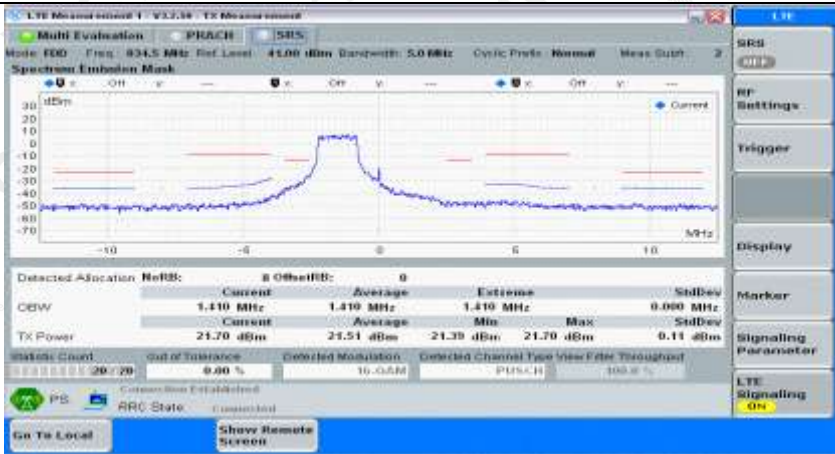
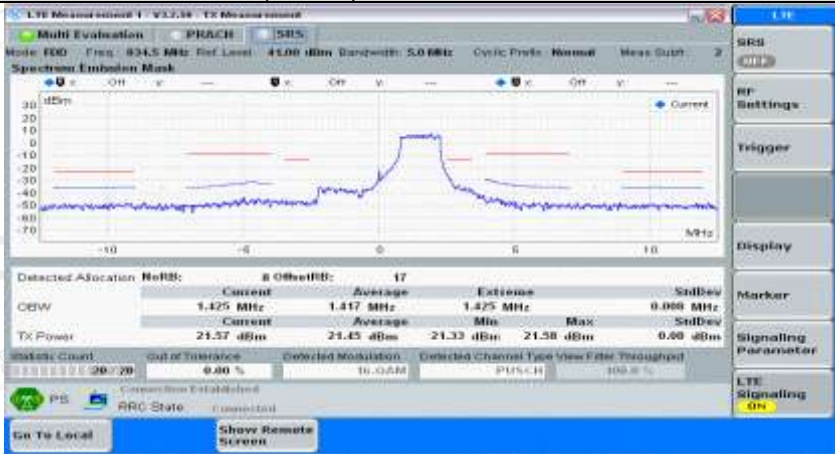
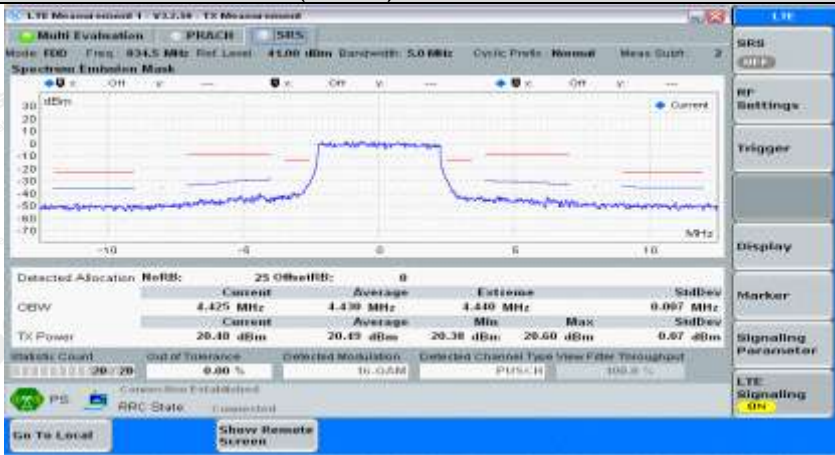
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

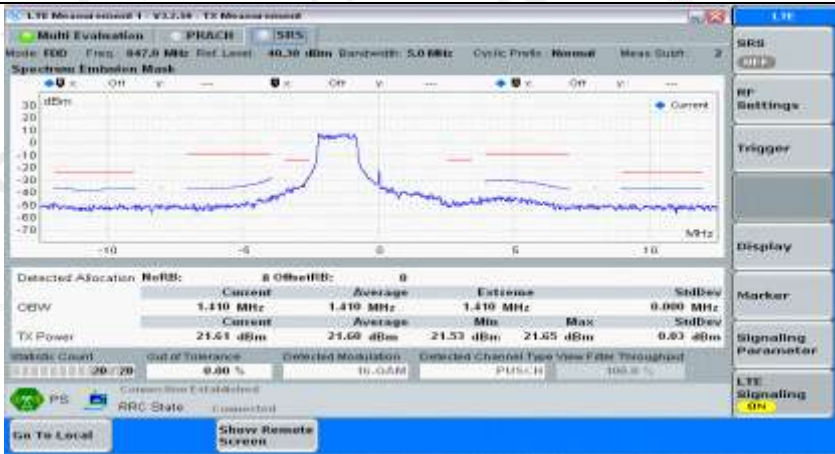
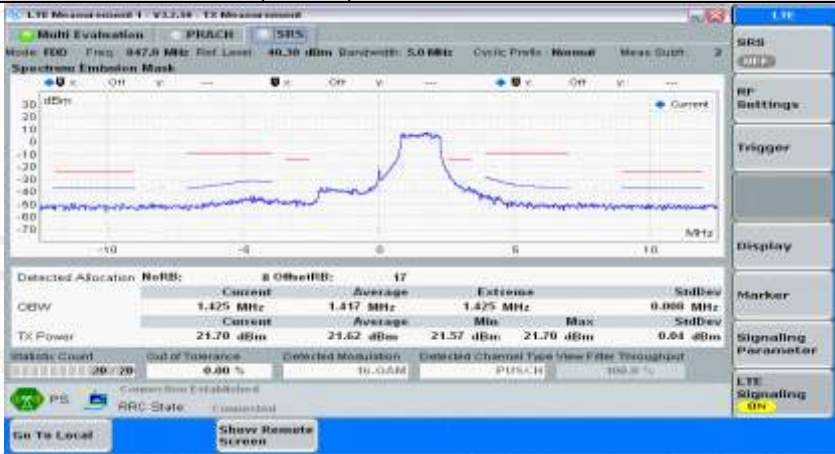
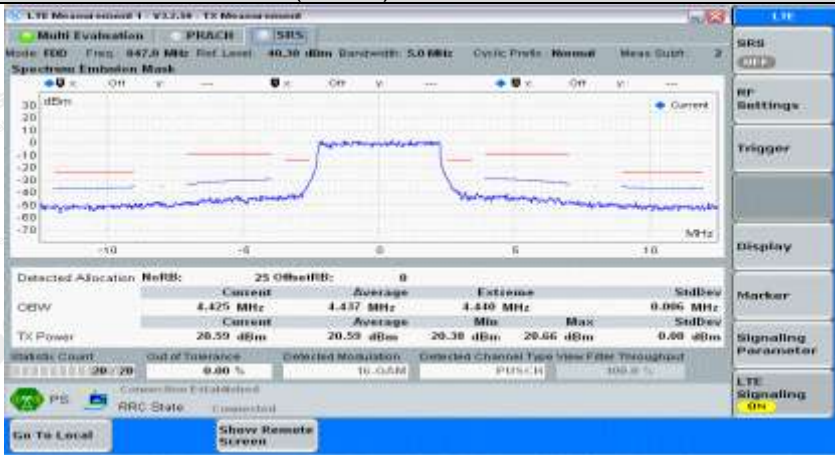
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

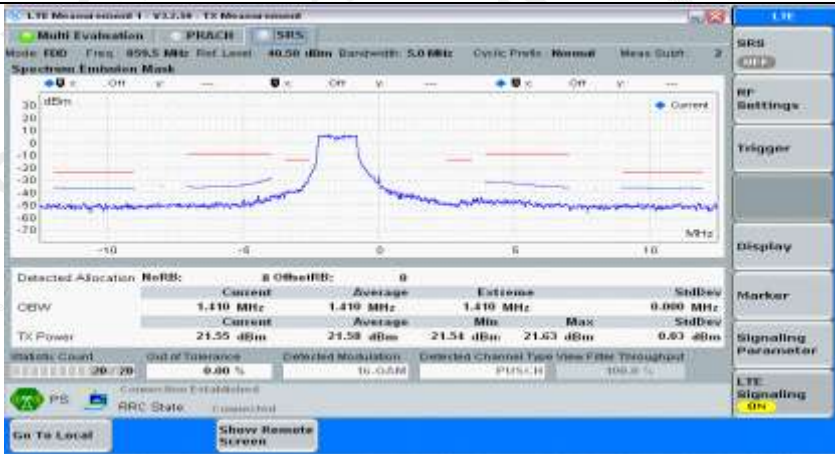
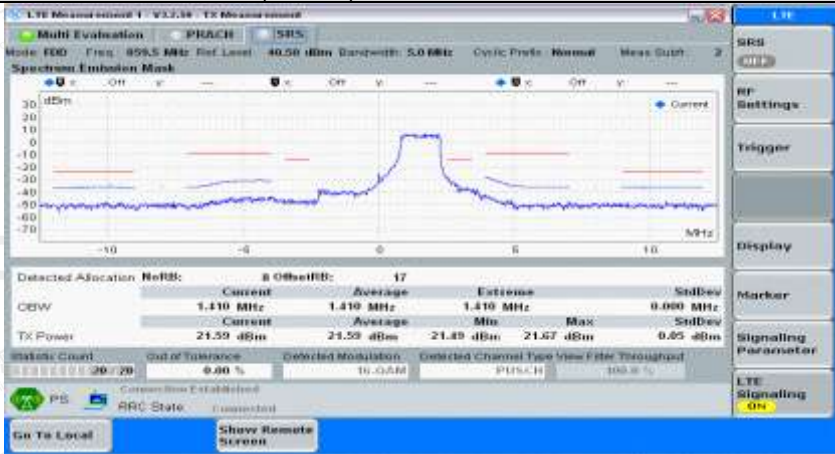
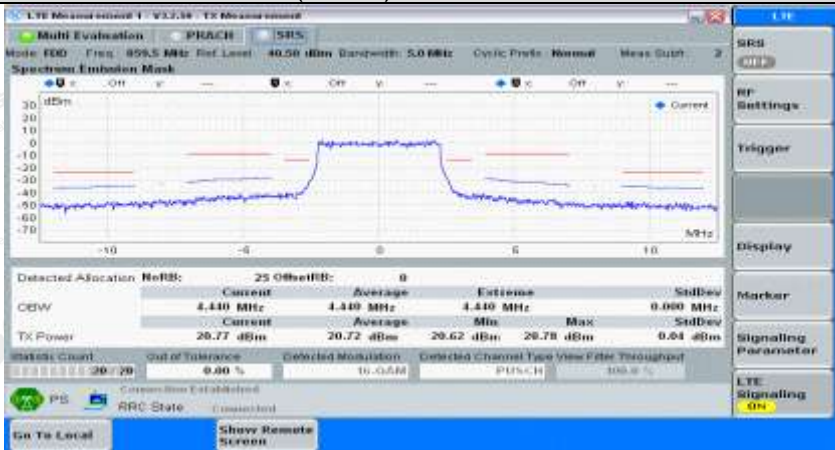
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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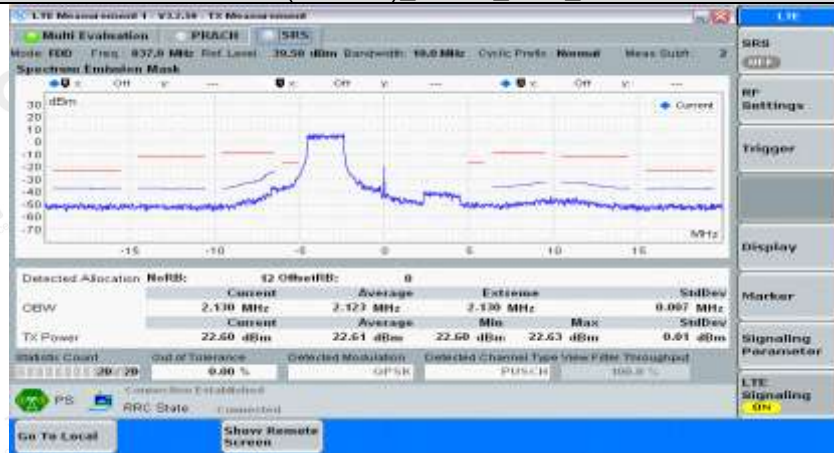
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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Channel Bandwidth= (10 MHz)

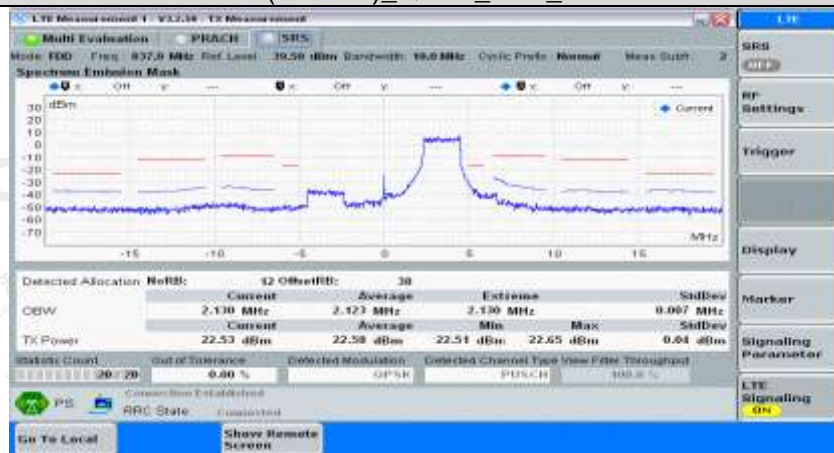
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



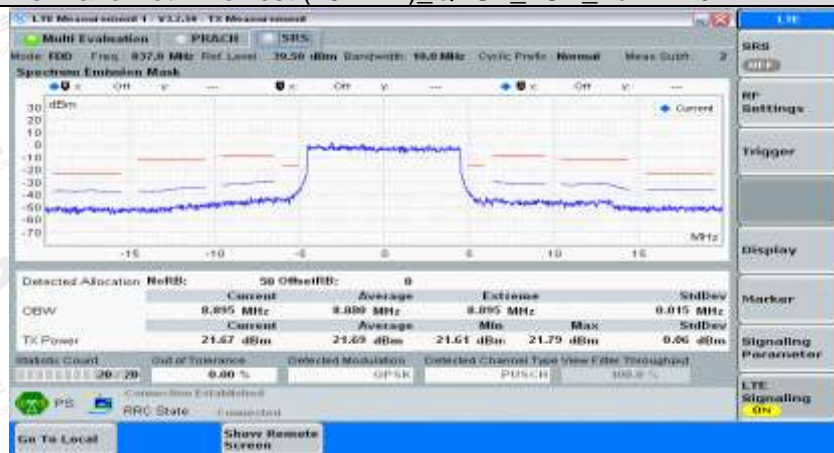
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



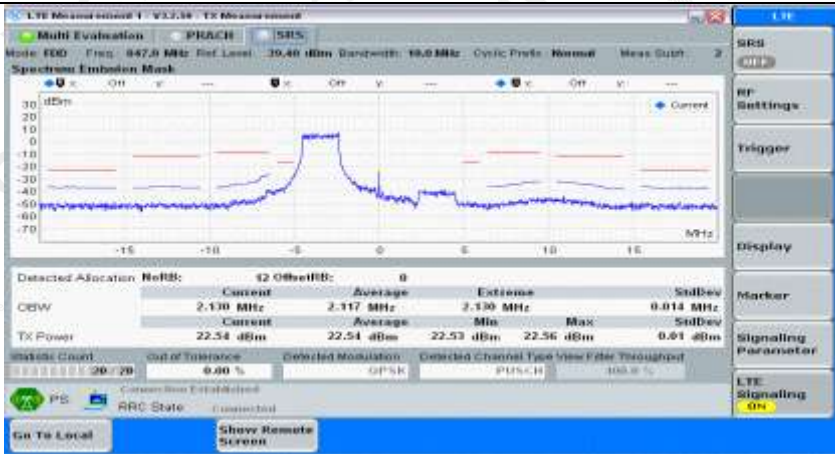
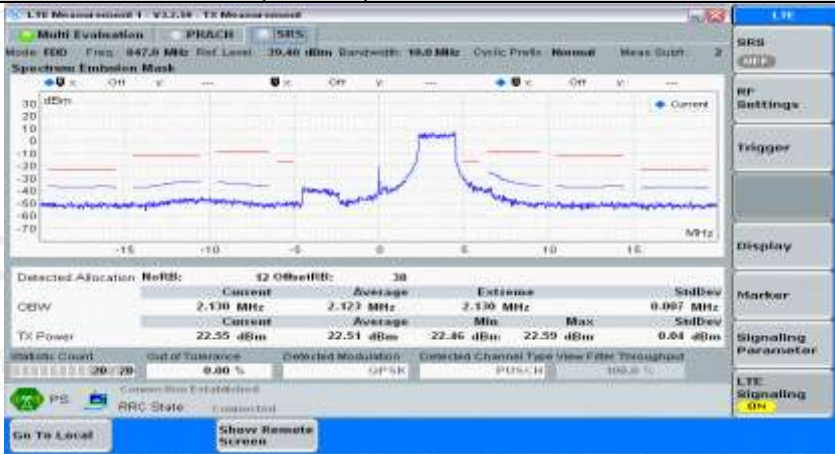
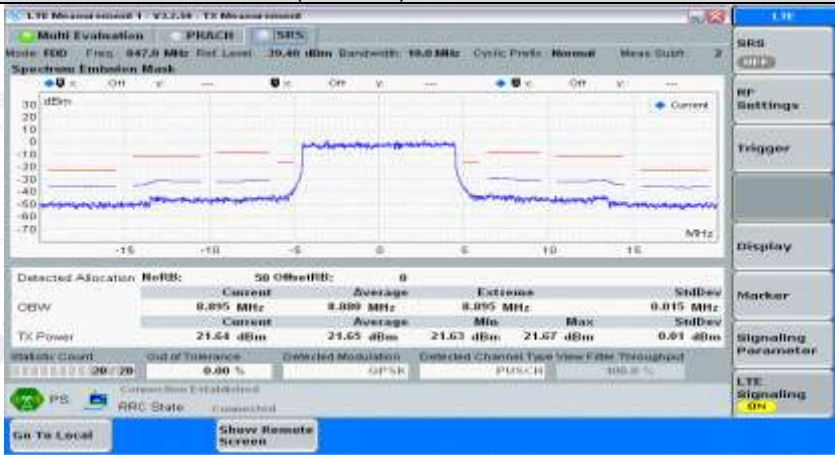
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0

QPSK

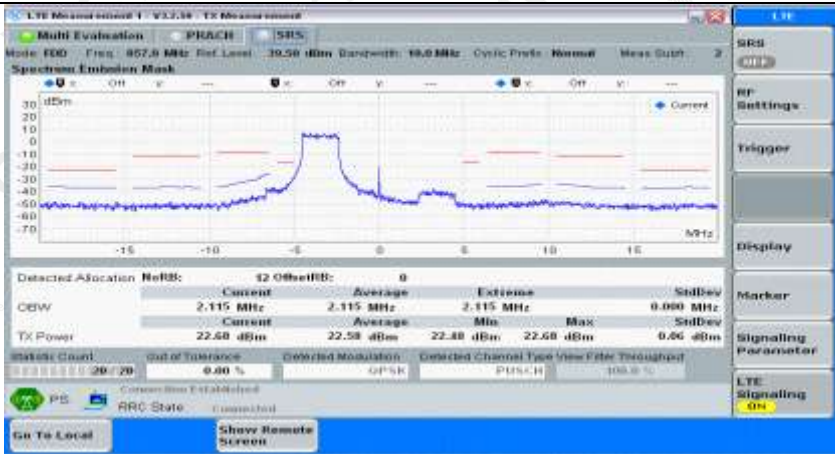
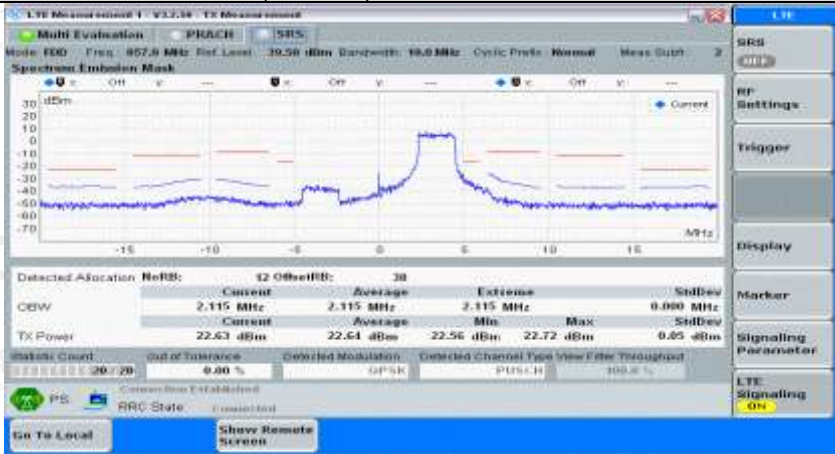
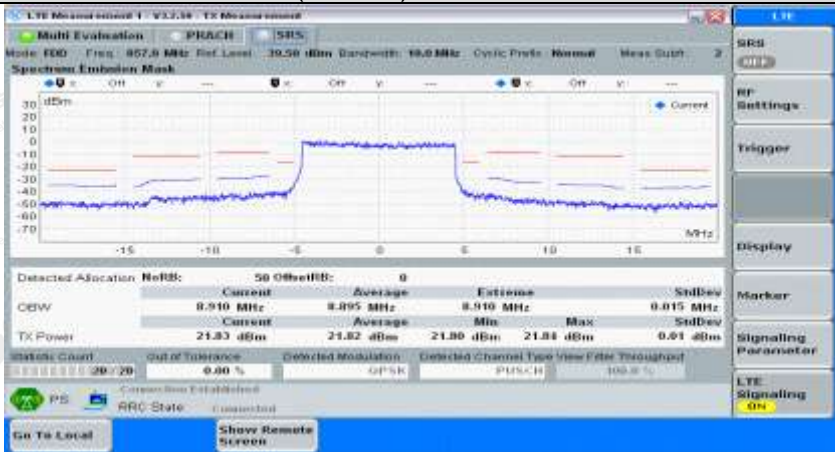


Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

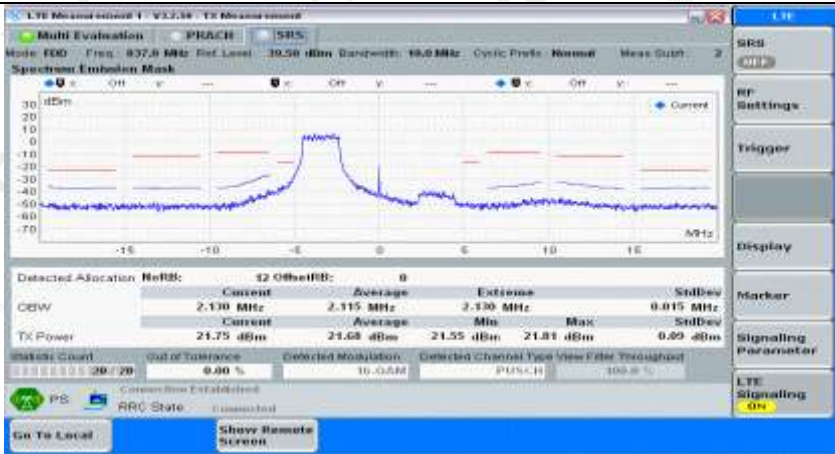
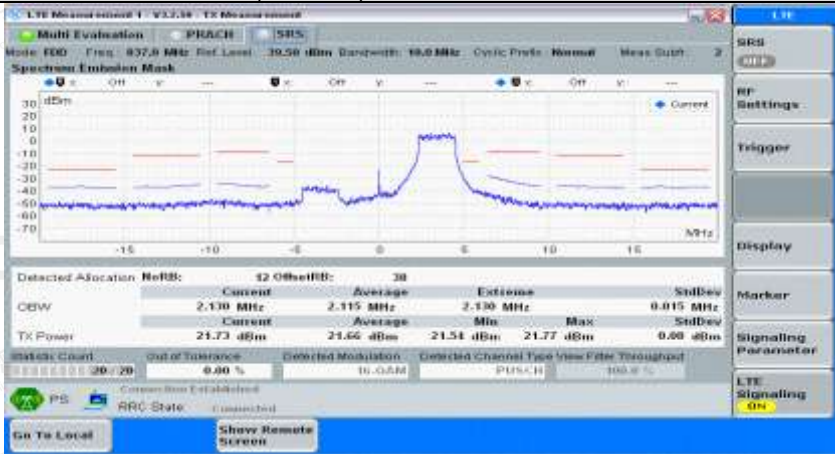
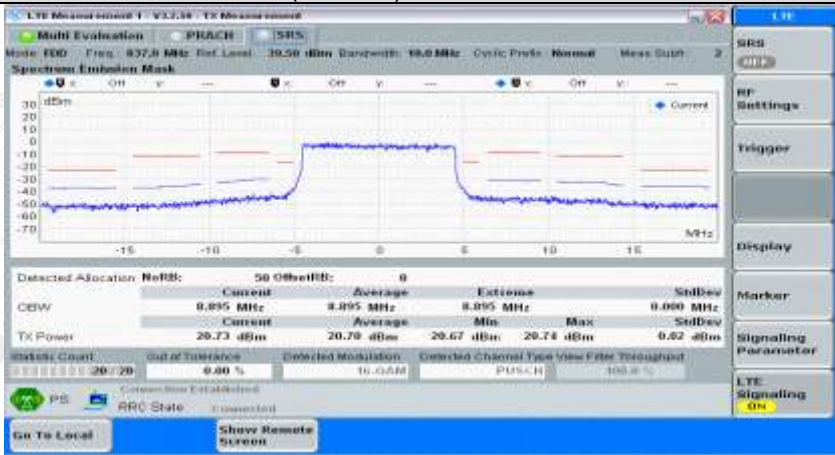
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

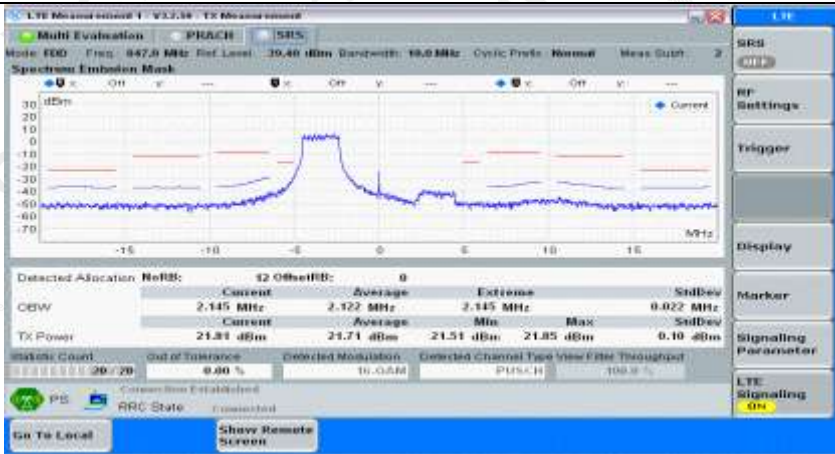
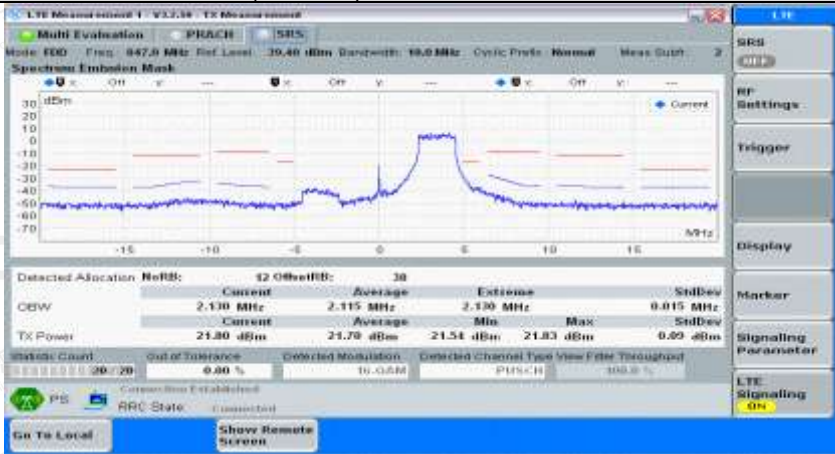
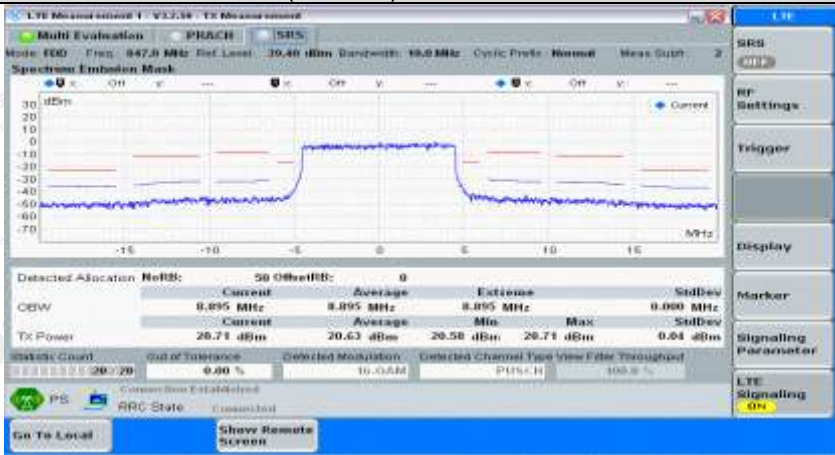
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

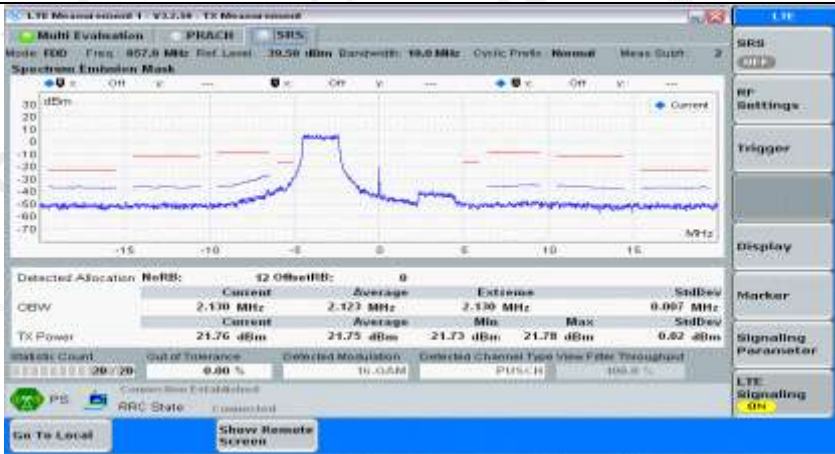
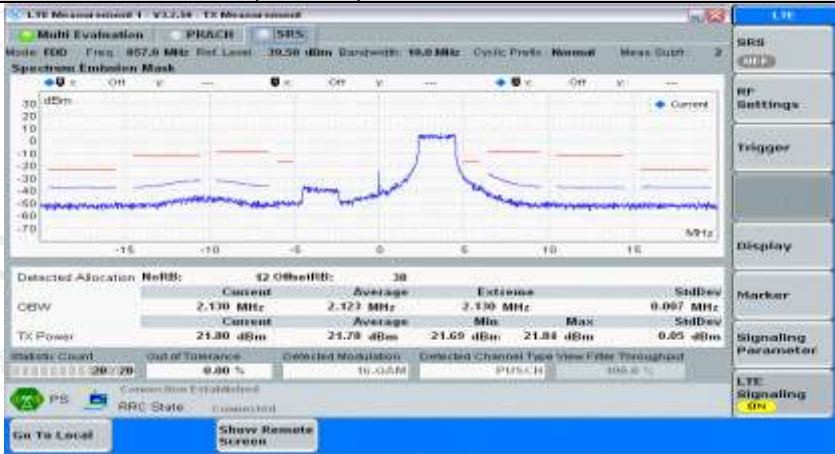
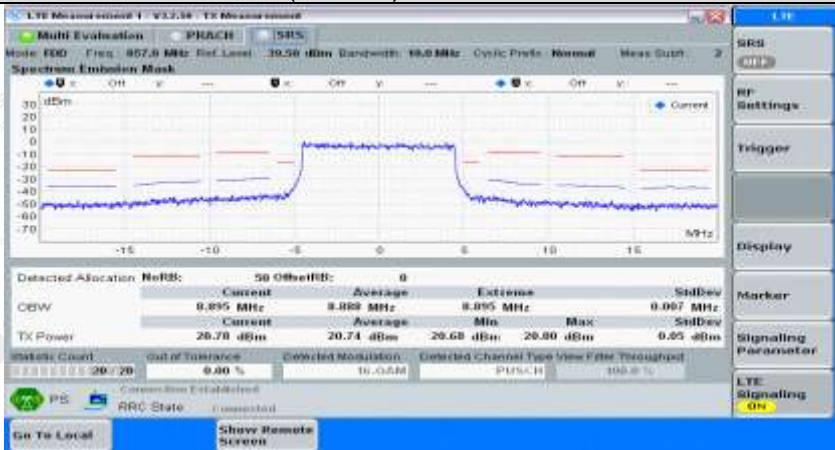
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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

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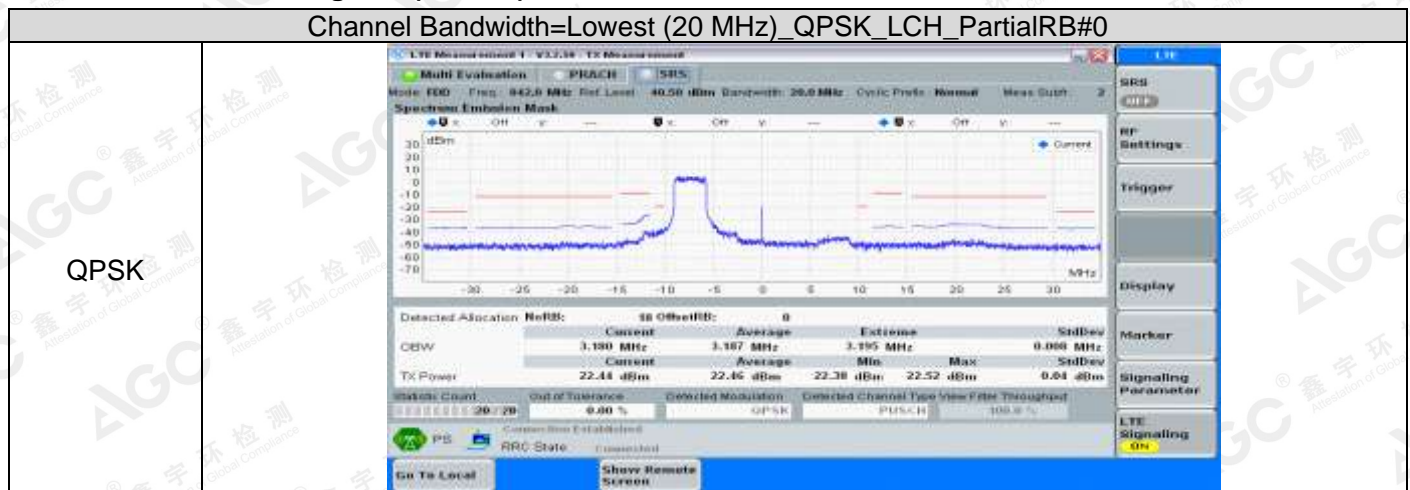
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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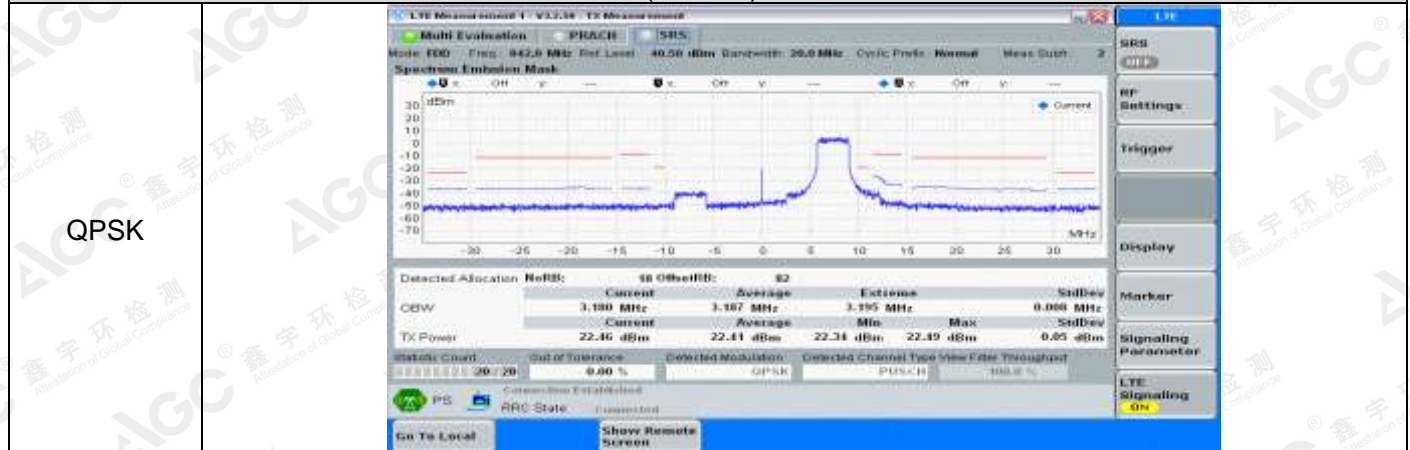
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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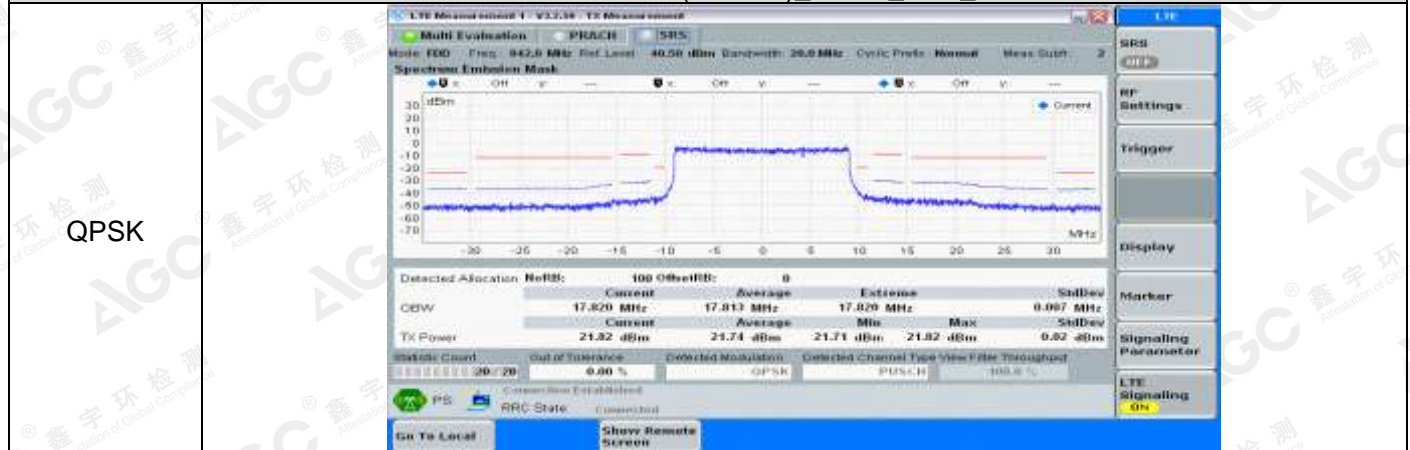
Channel Bandwidth=Highest (20 MHz)



Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

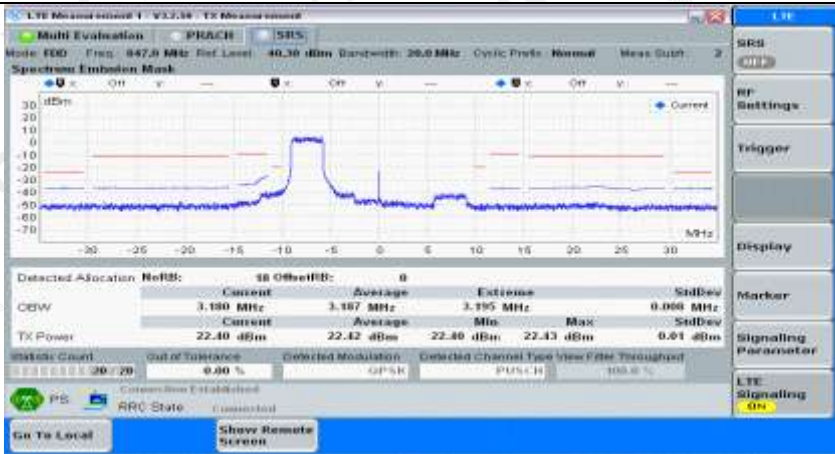
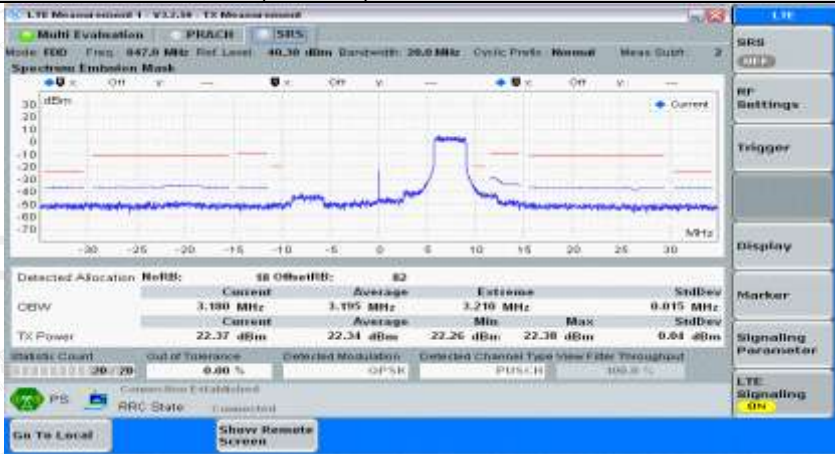
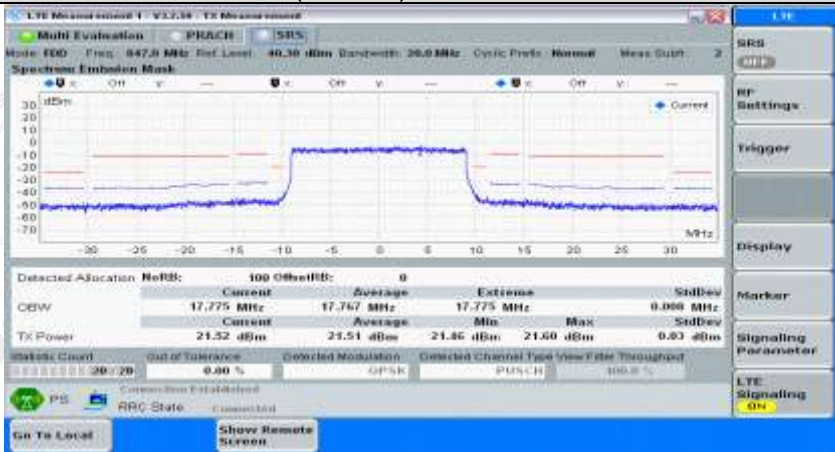


Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0

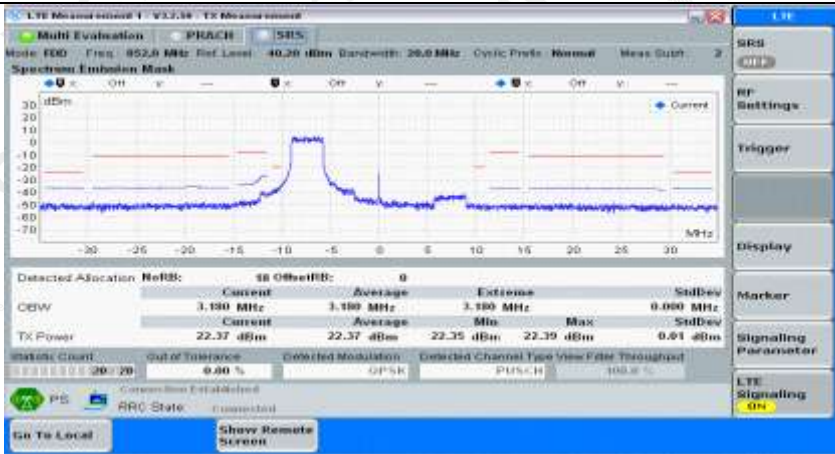
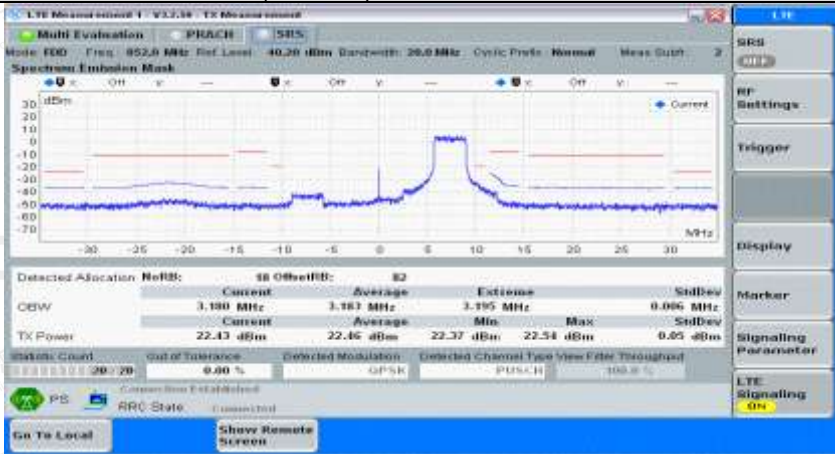
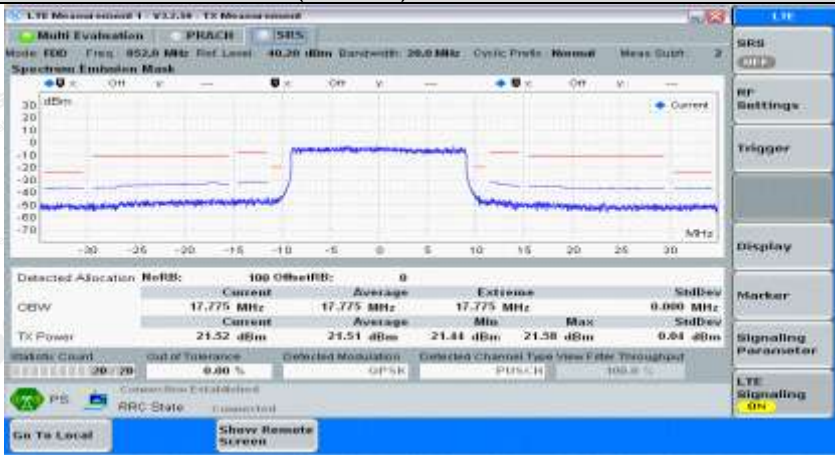


Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

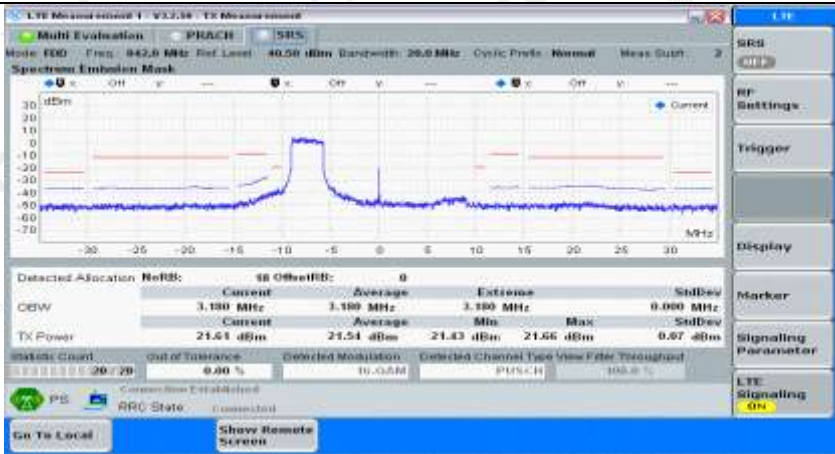
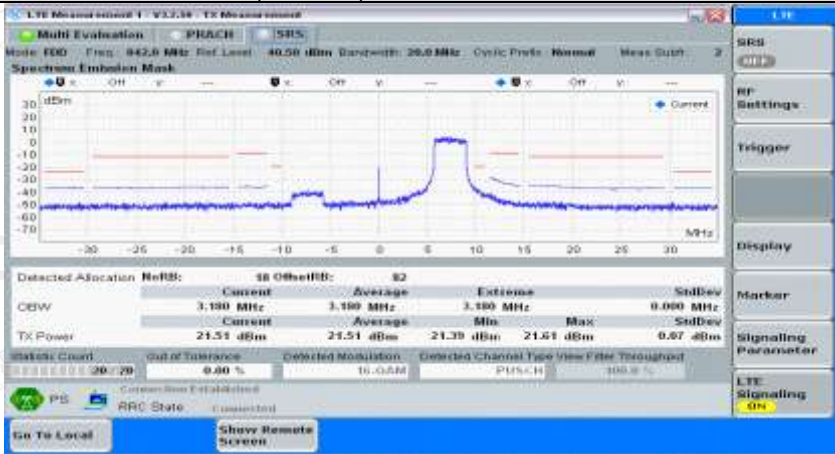
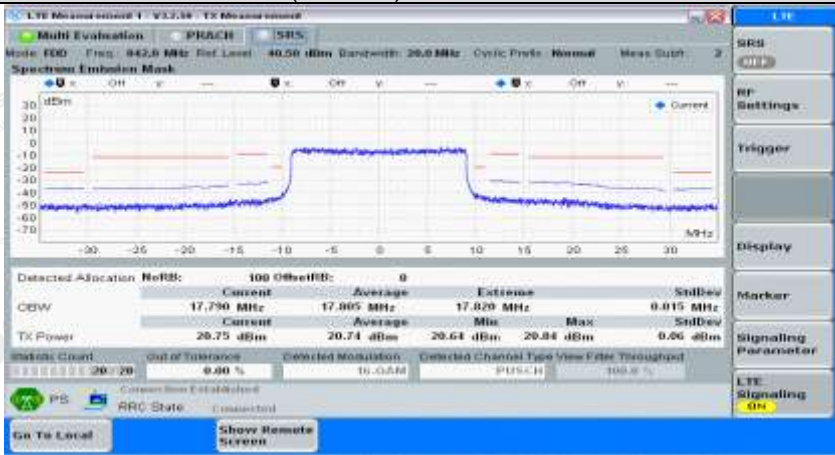
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

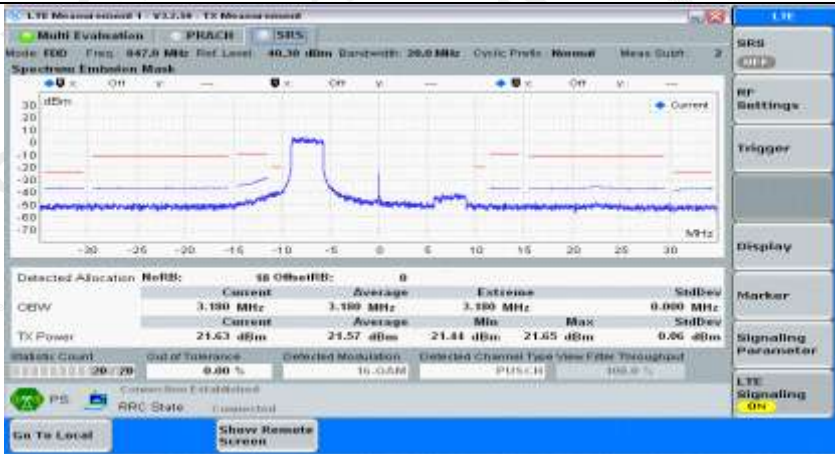
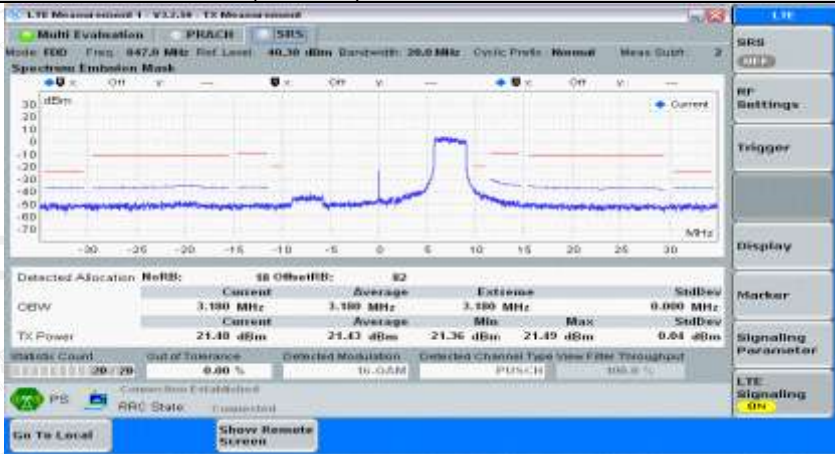
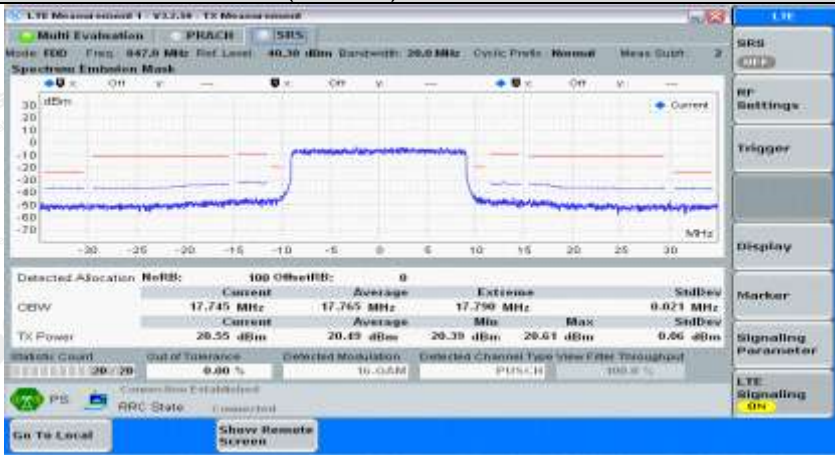
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

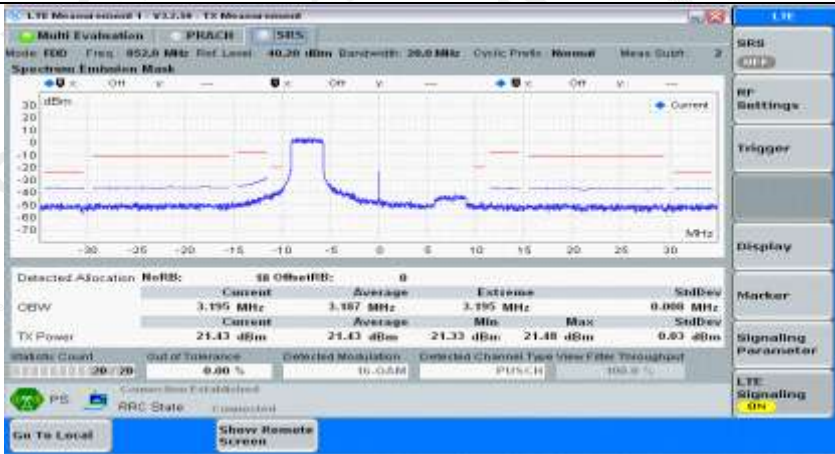
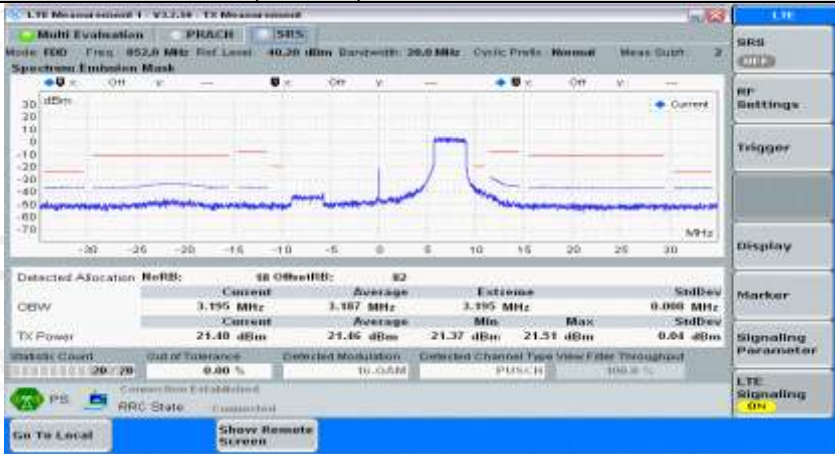
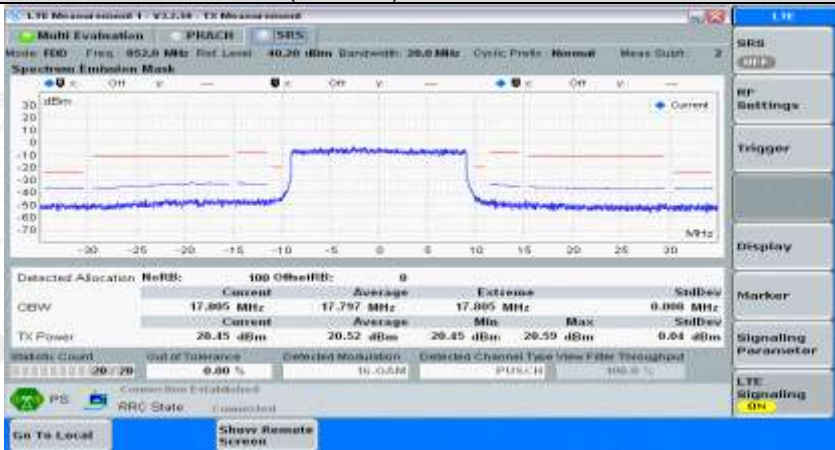
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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			Mid range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

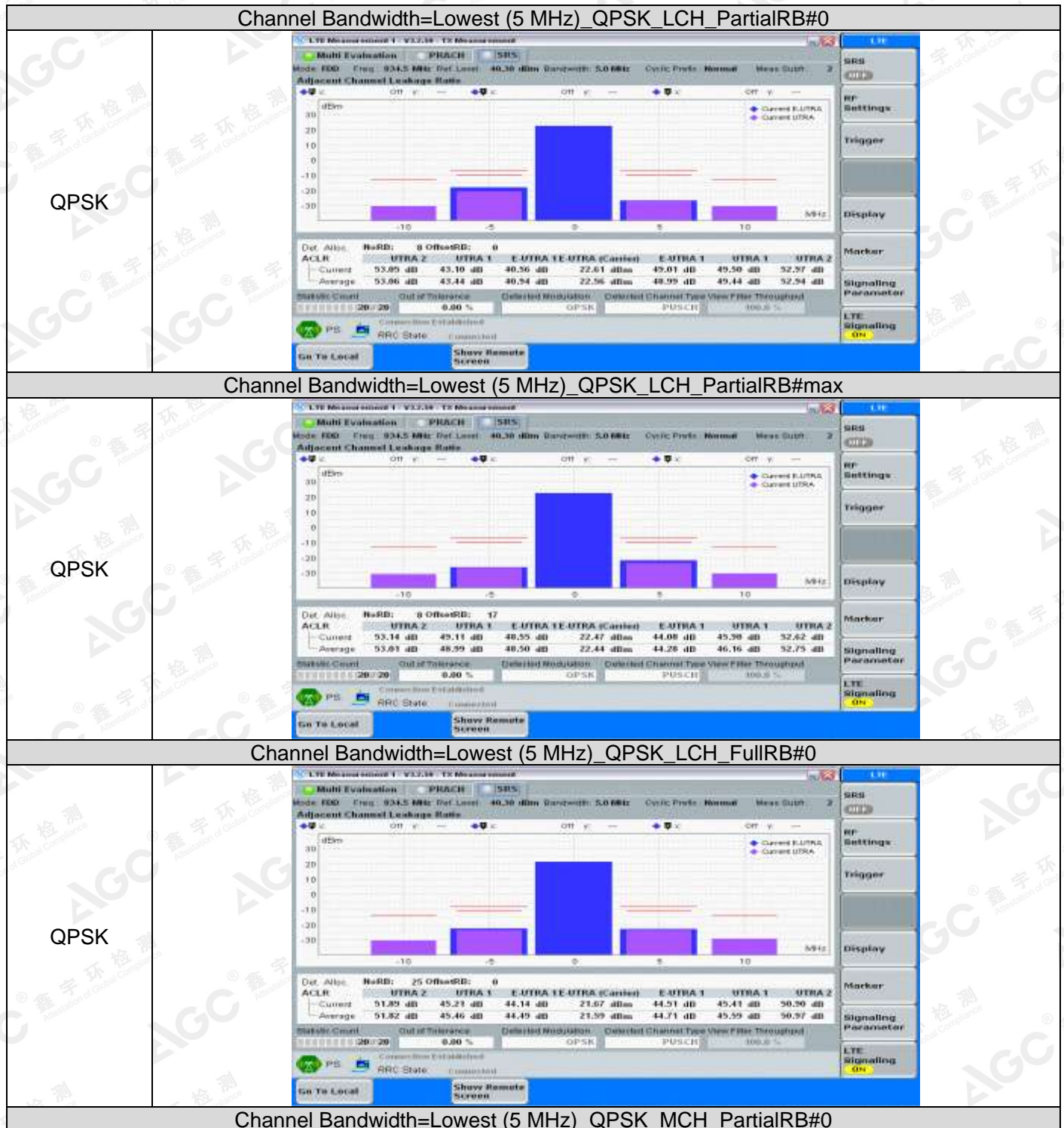
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

LTLV



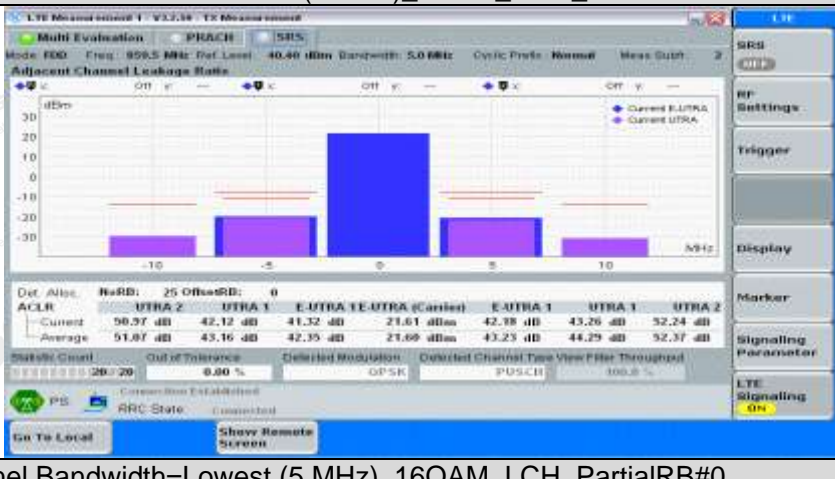
Channel Bandwidth=Lowest (5 MHz)




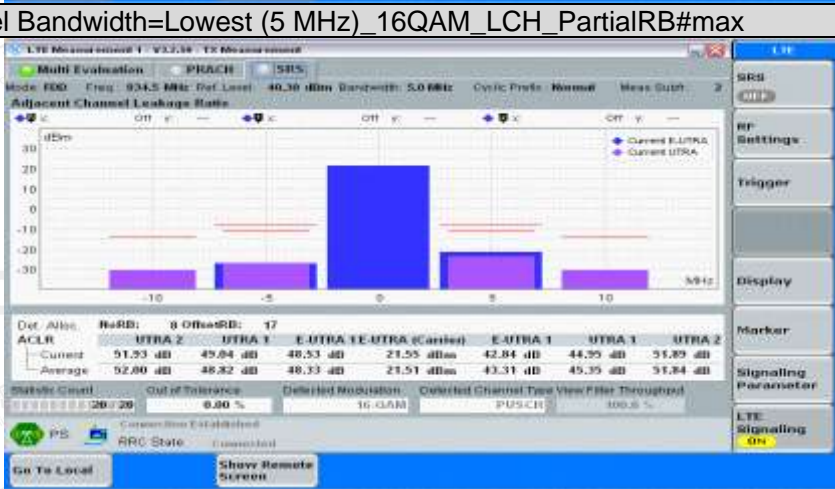
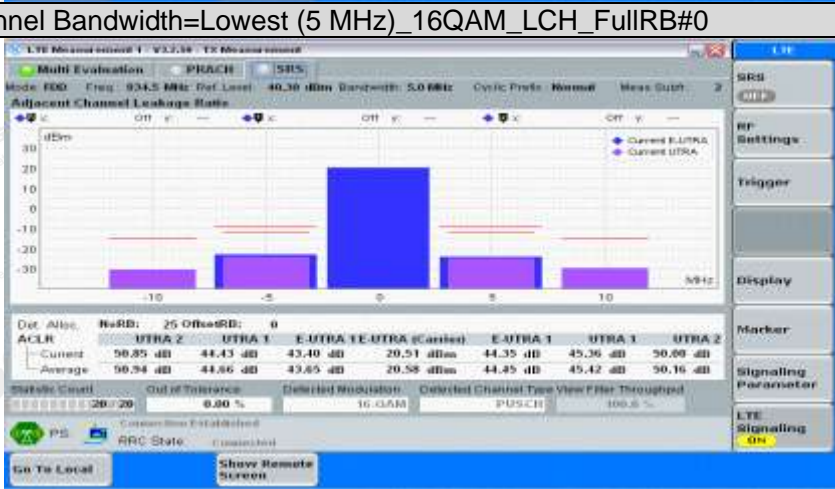
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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>




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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>




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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0	
16QAM	

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Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

QPSK



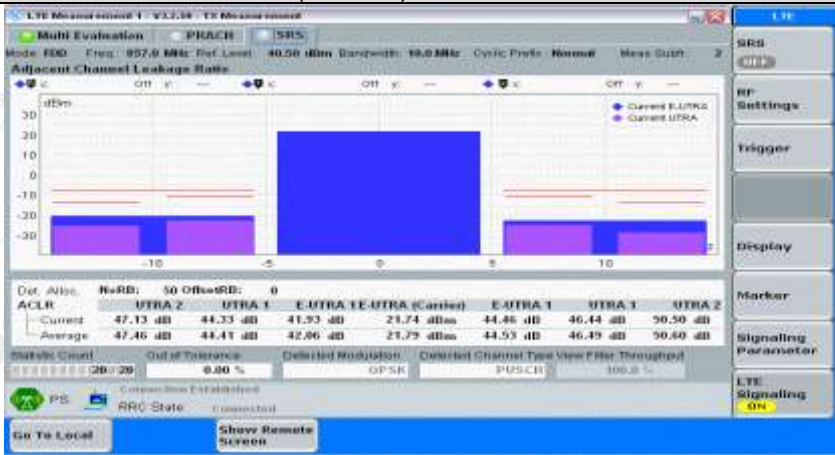


Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

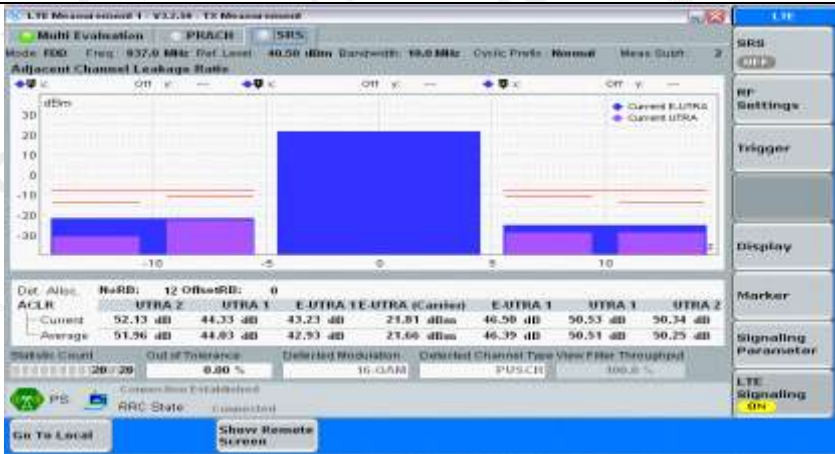
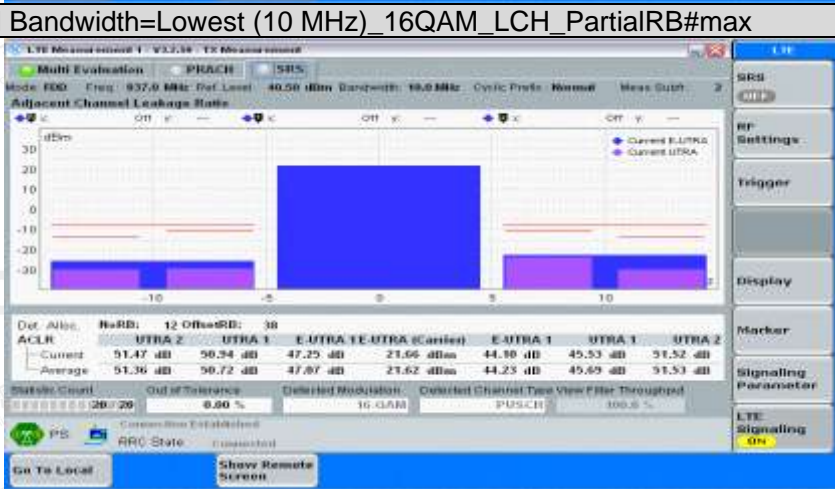
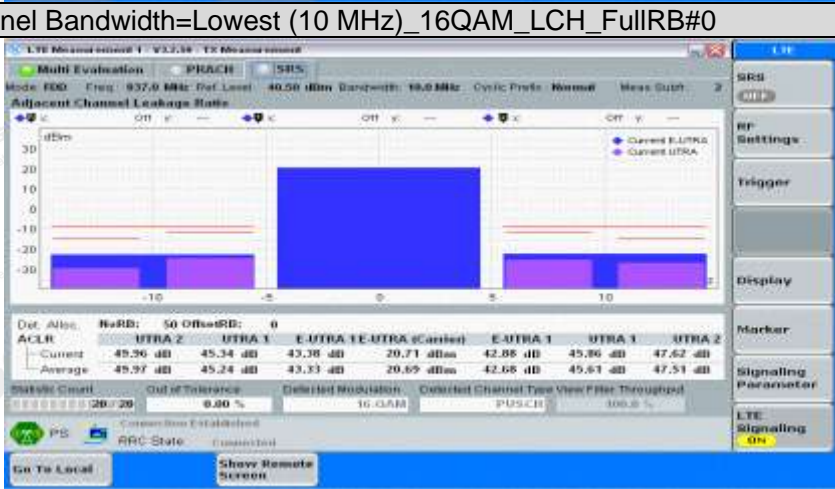
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

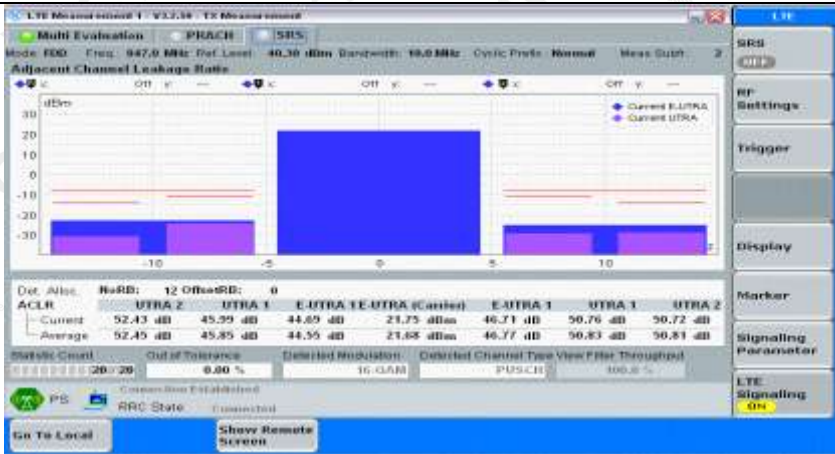


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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>



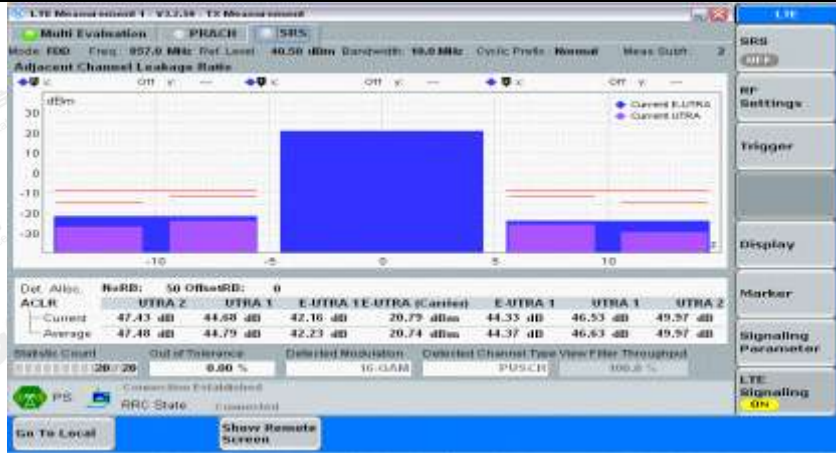
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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

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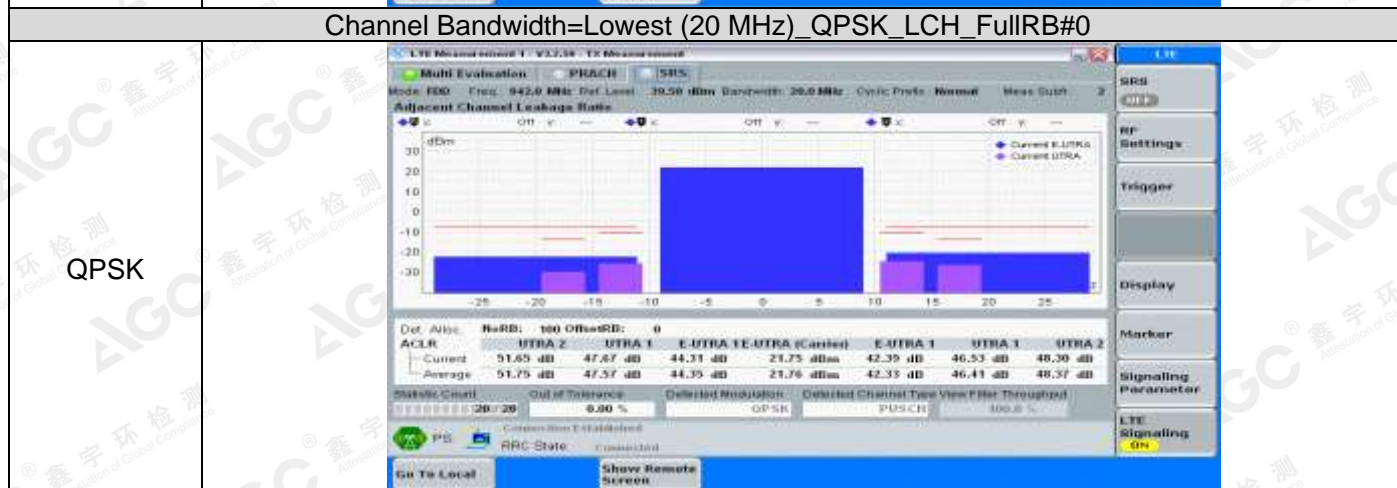
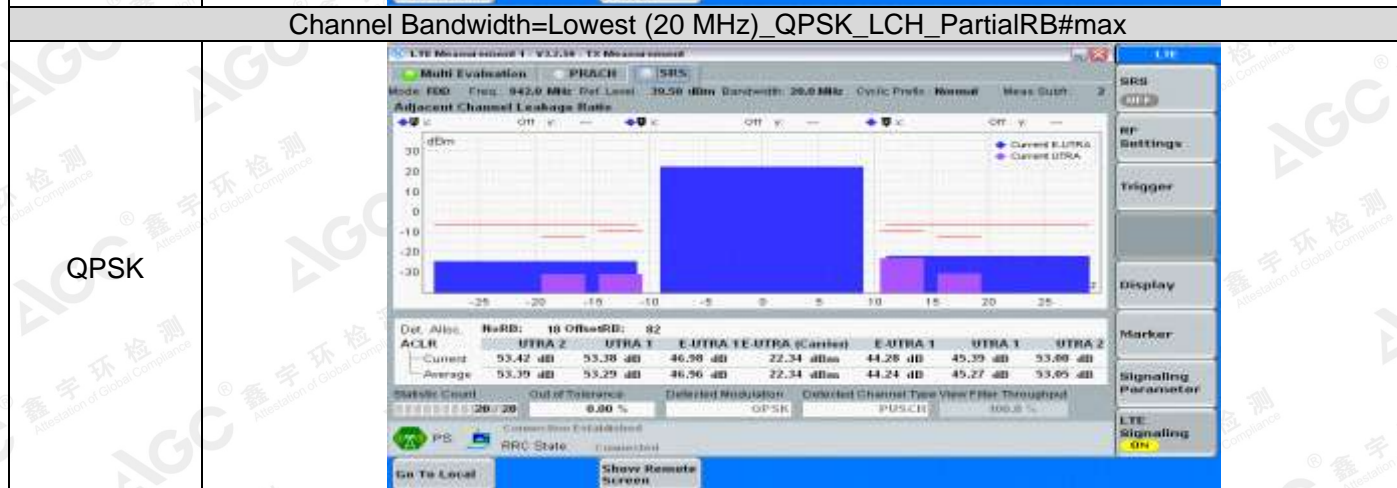
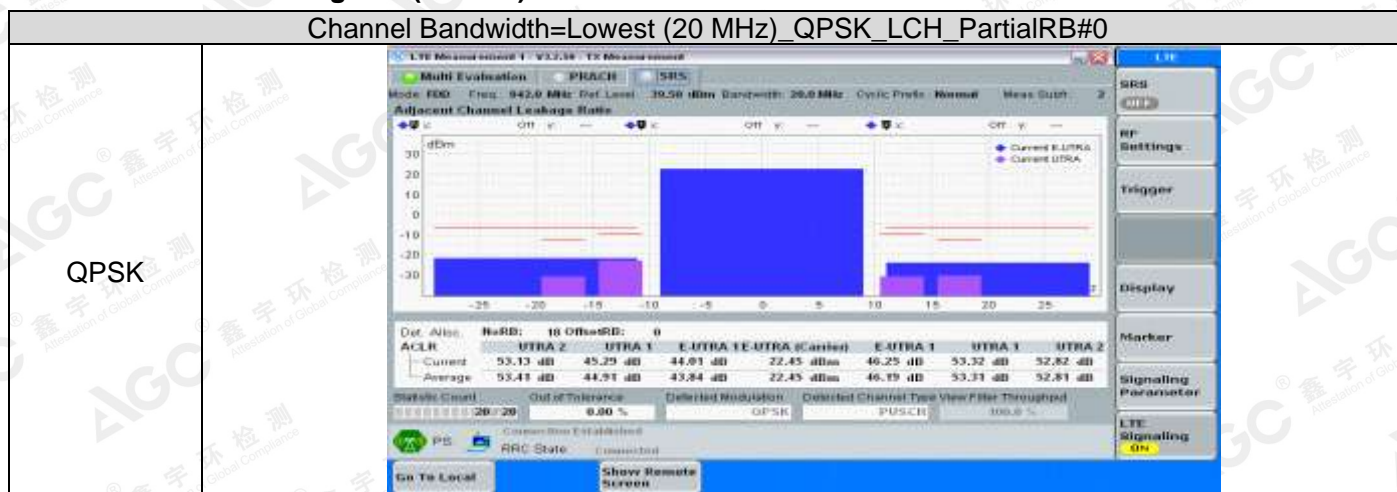
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	 <table><tr><th>Det. Albo.</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th></tr><tr><td>Current</td><td>51.50 dB</td><td>44.35 dB</td><td>43.10 dB</td><td>21.75 dB</td><td>47.28 dB</td><td>51.83 dB</td><td>51.20 dB</td><td></td><td></td></tr><tr><td>Average</td><td>51.73 dB</td><td>44.66 dB</td><td>43.54 dB</td><td>21.74 dB</td><td>47.31 dB</td><td>51.87 dB</td><td>51.29 dB</td><td></td><td></td></tr></table>	Det. Albo.	NR	NR	NR	NR	NR	NR	NR	NR	NR	Current	51.50 dB	44.35 dB	43.10 dB	21.75 dB	47.28 dB	51.83 dB	51.20 dB			Average	51.73 dB	44.66 dB	43.54 dB	21.74 dB	47.31 dB	51.87 dB	51.29 dB		
Det. Albo.	NR	NR	NR	NR	NR	NR	NR	NR	NR																						
Current	51.50 dB	44.35 dB	43.10 dB	21.75 dB	47.28 dB	51.83 dB	51.20 dB																								
Average	51.73 dB	44.66 dB	43.54 dB	21.74 dB	47.31 dB	51.87 dB	51.29 dB																								
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max																															
16QAM	 <table><tr><th>Det. Albo.</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th></tr><tr><td>Current</td><td>49.56 dB</td><td>49.84 dB</td><td>45.86 dB</td><td>21.67 dB</td><td>43.08 dB</td><td>44.11 dB</td><td>52.17 dB</td><td></td><td></td></tr><tr><td>Average</td><td>49.55 dB</td><td>50.81 dB</td><td>45.85 dB</td><td>21.72 dB</td><td>43.28 dB</td><td>44.45 dB</td><td>51.85 dB</td><td></td><td></td></tr></table>	Det. Albo.	NR	NR	NR	NR	NR	NR	NR	NR	NR	Current	49.56 dB	49.84 dB	45.86 dB	21.67 dB	43.08 dB	44.11 dB	52.17 dB			Average	49.55 dB	50.81 dB	45.85 dB	21.72 dB	43.28 dB	44.45 dB	51.85 dB		
Det. Albo.	NR	NR	NR	NR	NR	NR	NR	NR	NR																						
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Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0																															
16QAM	 <table><tr><th>Det. Albo.</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th><th>NR</th></tr><tr><td>Current</td><td>47.43 dB</td><td>44.68 dB</td><td>42.16 dB</td><td>20.73 dB</td><td>44.33 dB</td><td>46.53 dB</td><td>49.37 dB</td><td></td><td></td></tr><tr><td>Average</td><td>47.48 dB</td><td>44.79 dB</td><td>42.23 dB</td><td>20.74 dB</td><td>44.37 dB</td><td>46.53 dB</td><td>49.37 dB</td><td></td><td></td></tr></table>	Det. Albo.	NR	NR	NR	NR	NR	NR	NR	NR	NR	Current	47.43 dB	44.68 dB	42.16 dB	20.73 dB	44.33 dB	46.53 dB	49.37 dB			Average	47.48 dB	44.79 dB	42.23 dB	20.74 dB	44.37 dB	46.53 dB	49.37 dB		
Det. Albo.	NR	NR	NR	NR	NR	NR	NR	NR	NR																						
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Channel Bandwidth=Highest (20 MHz)

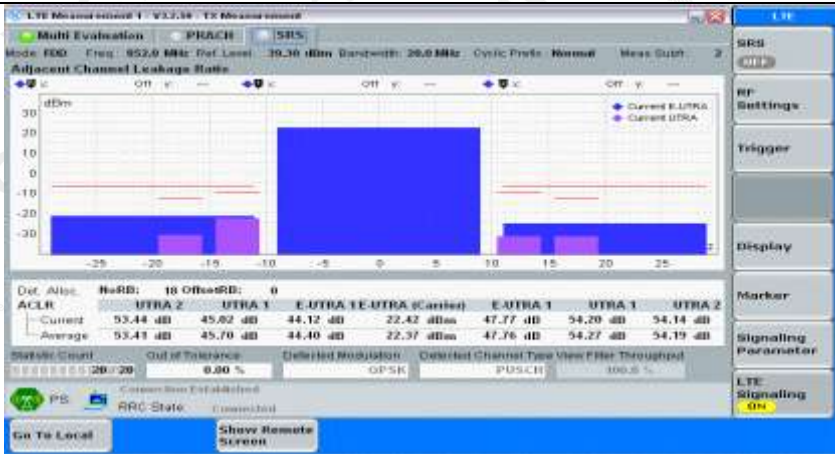

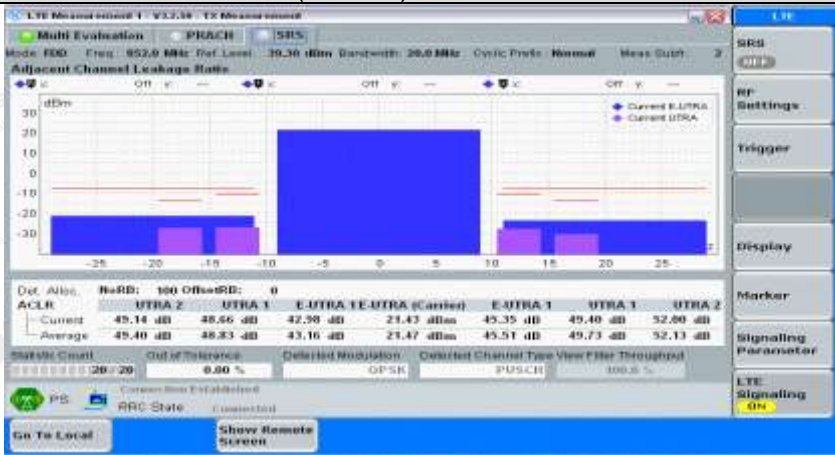


Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

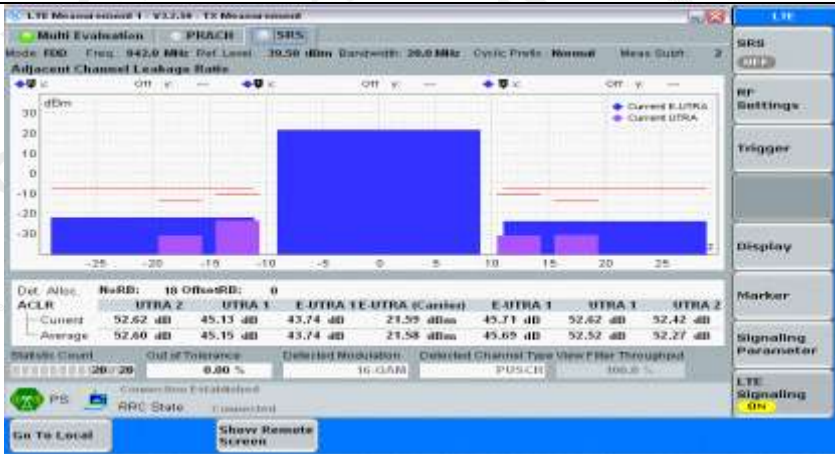
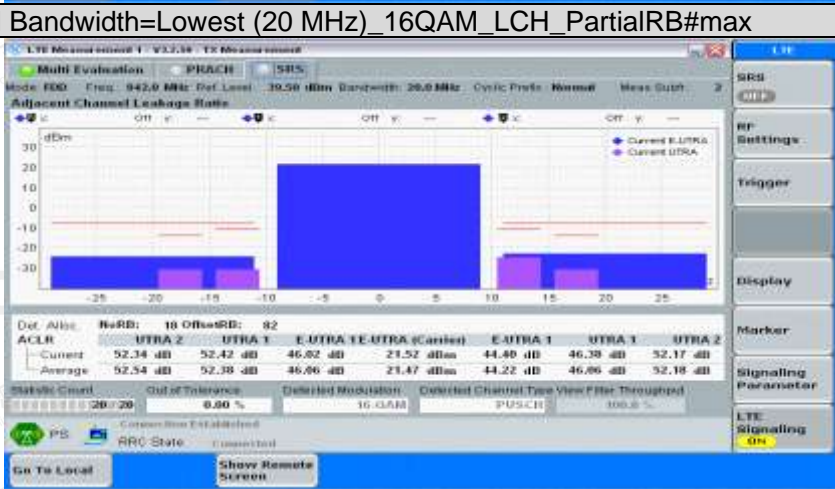
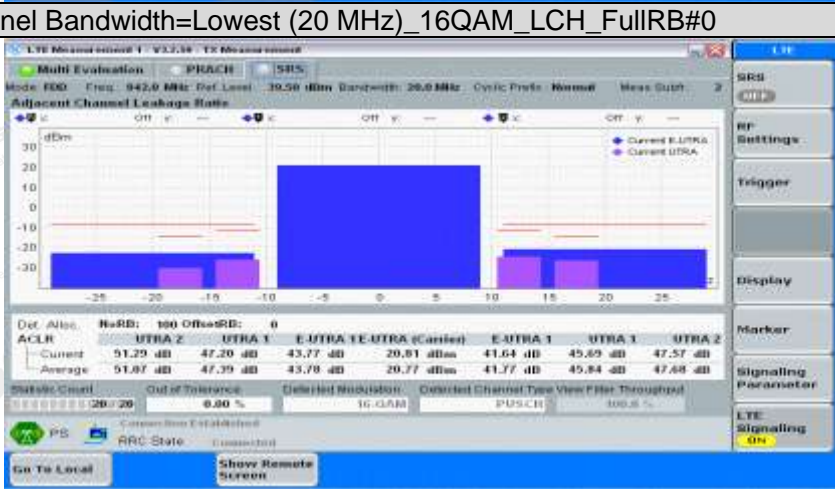
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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>

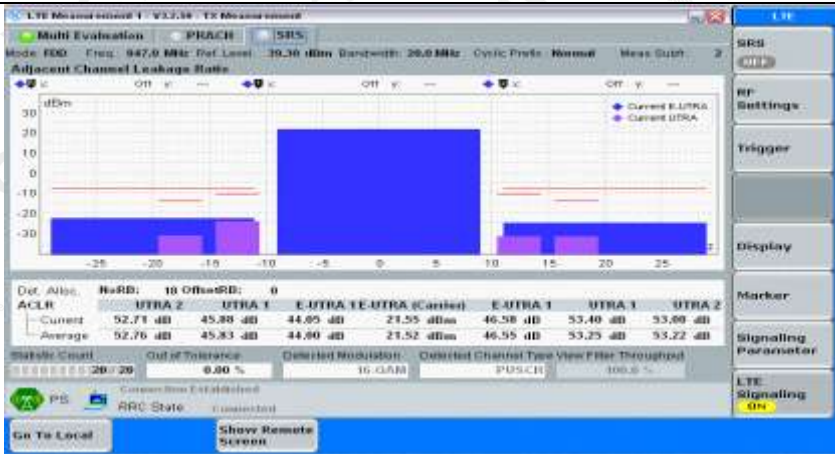
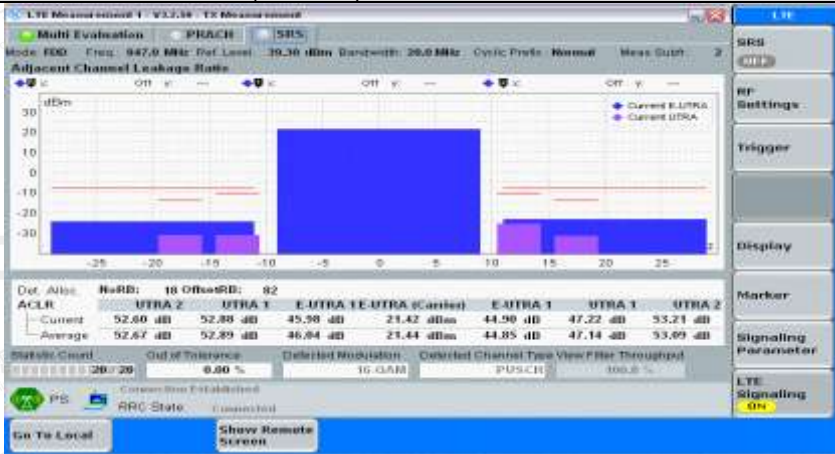
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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>

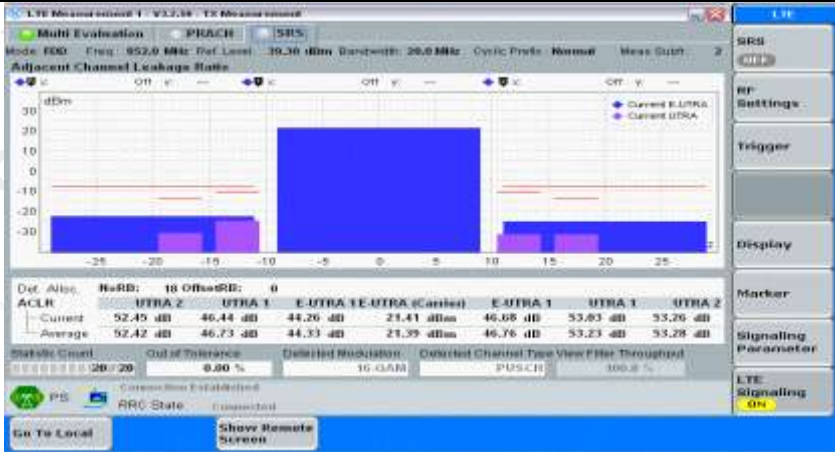


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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

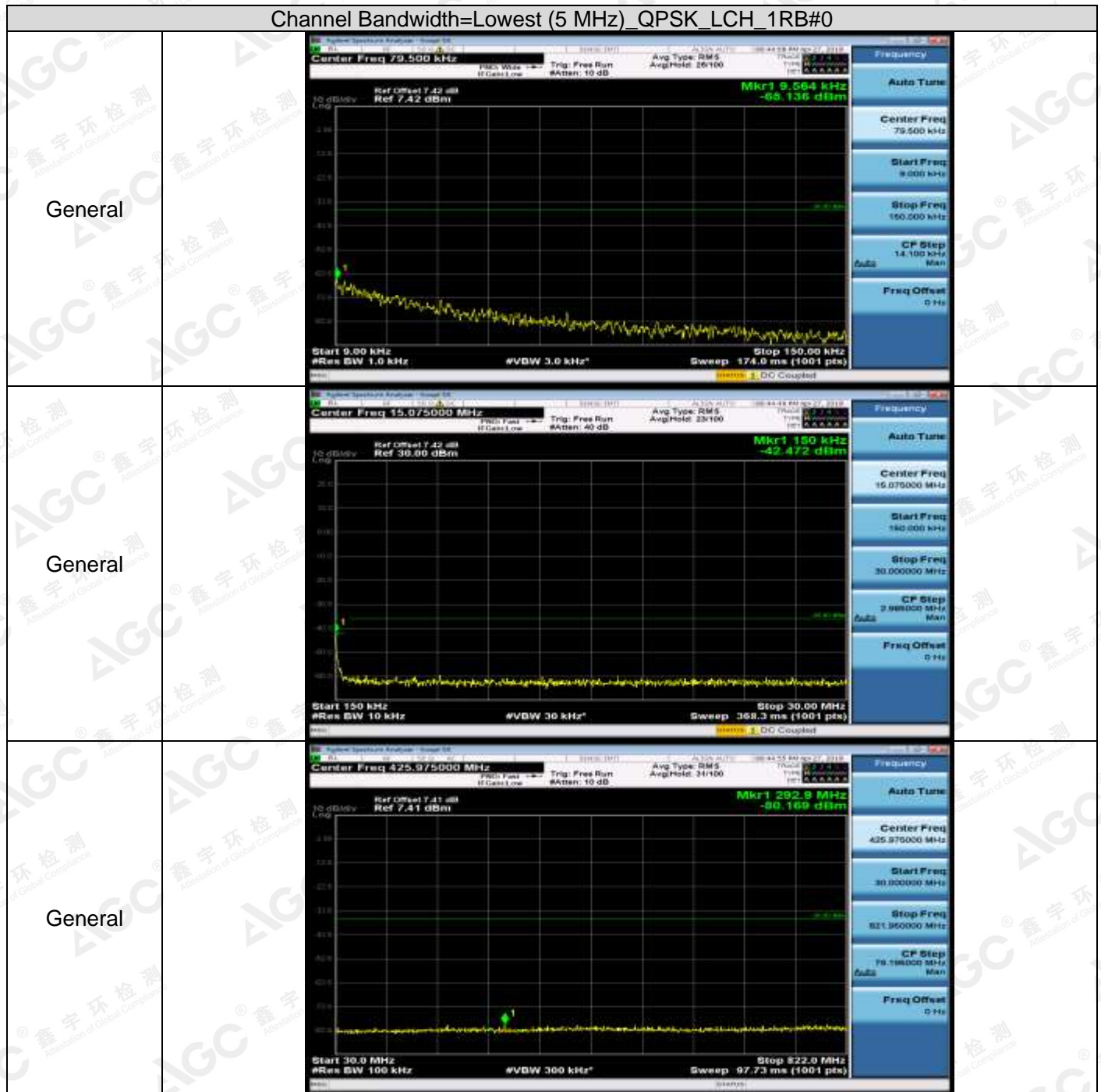
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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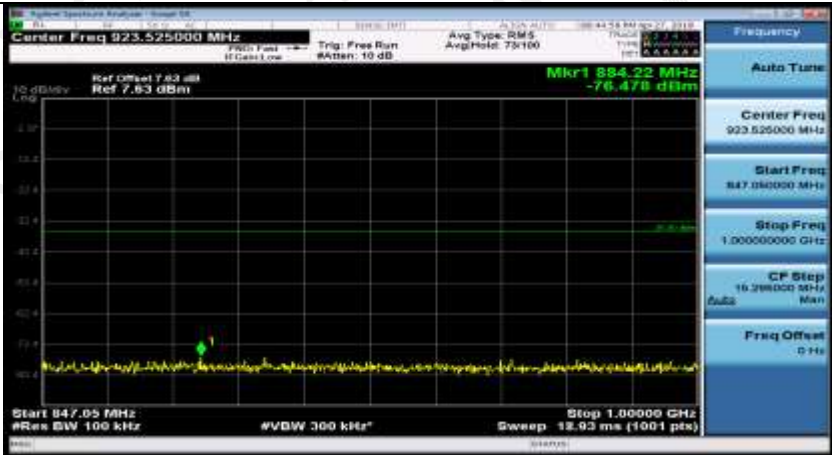

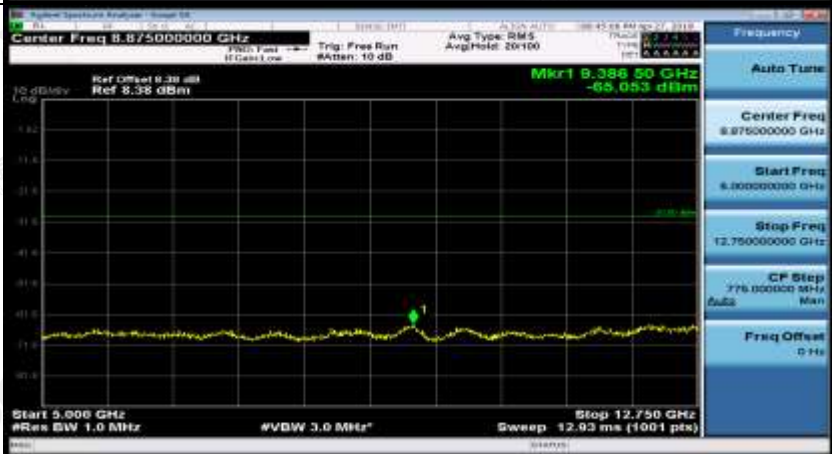
Test Graphs

NTNV

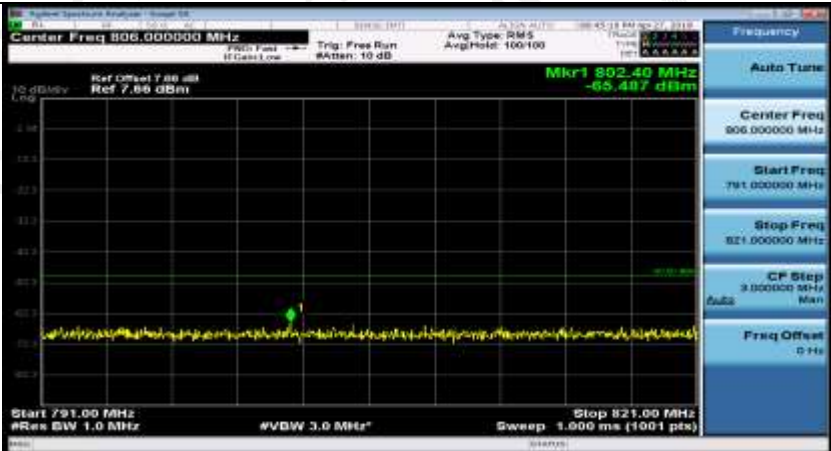
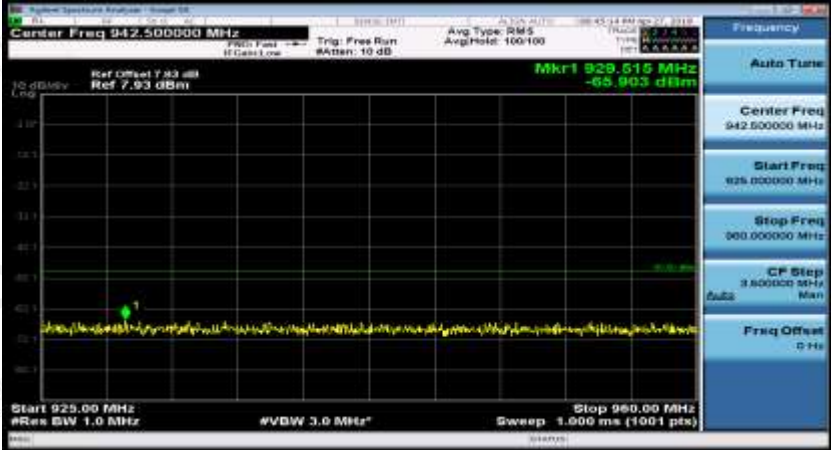
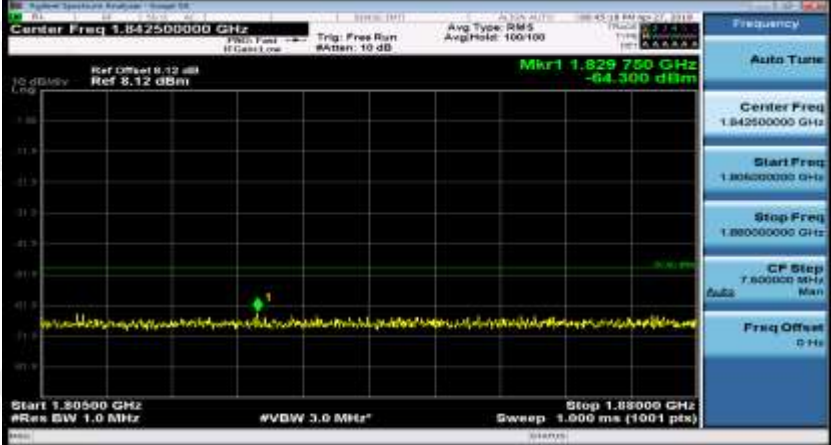
Channel Bandwidth=Lowest (5 MHz)



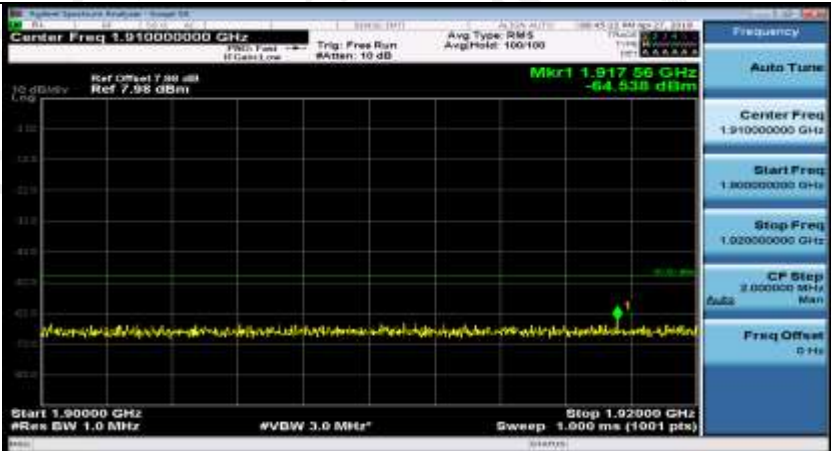
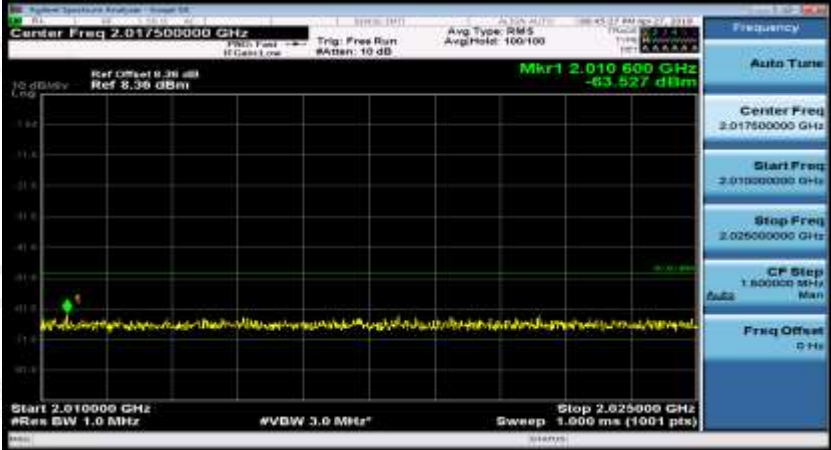
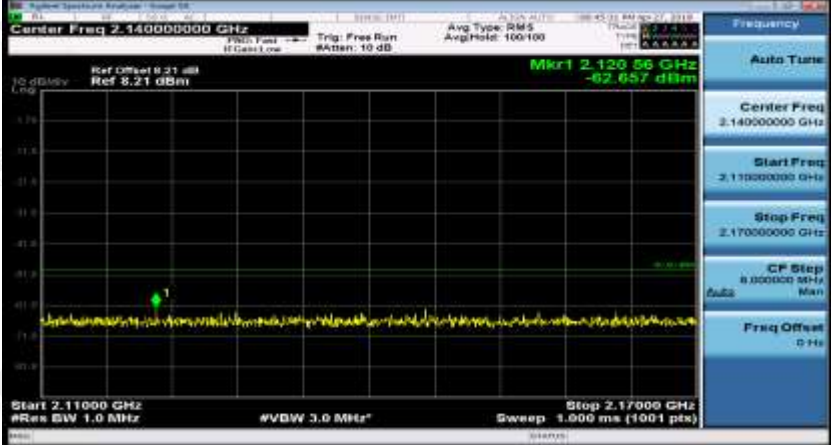
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

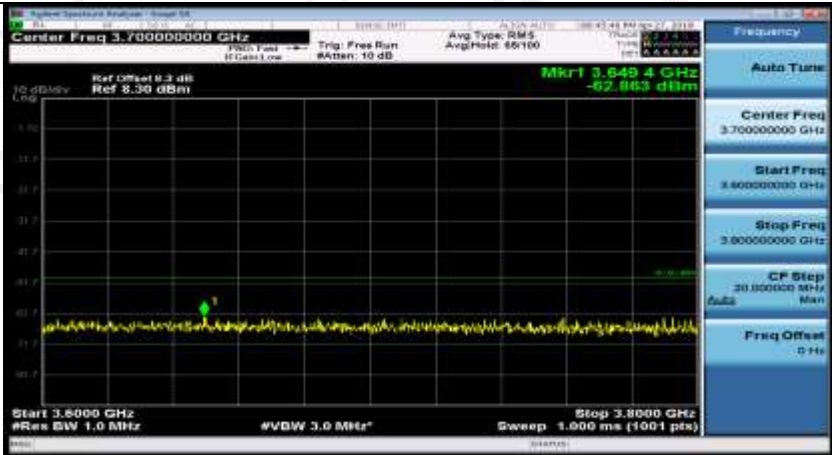
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Co-existence	
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Co-existence	

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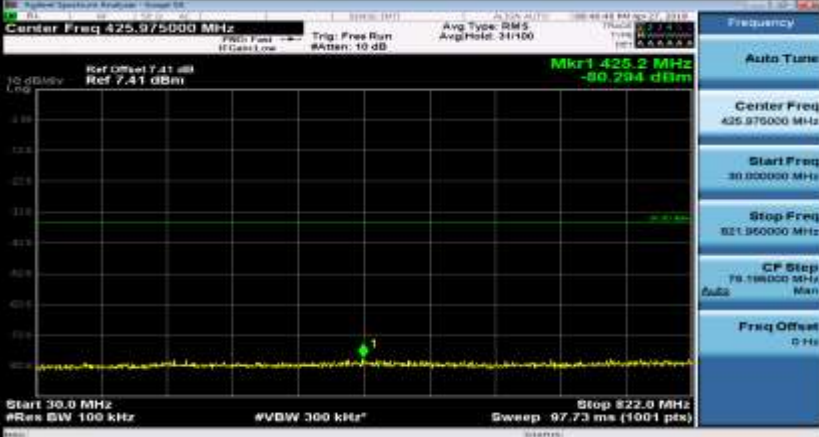
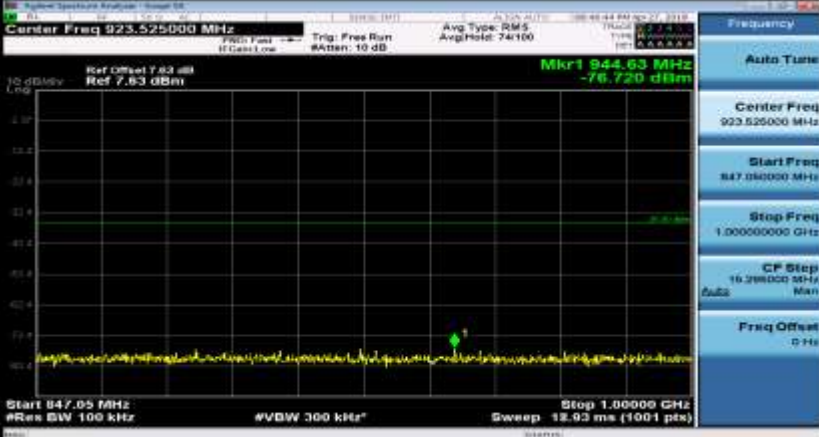

Co-existence			
Co-existence			
Co-existence			

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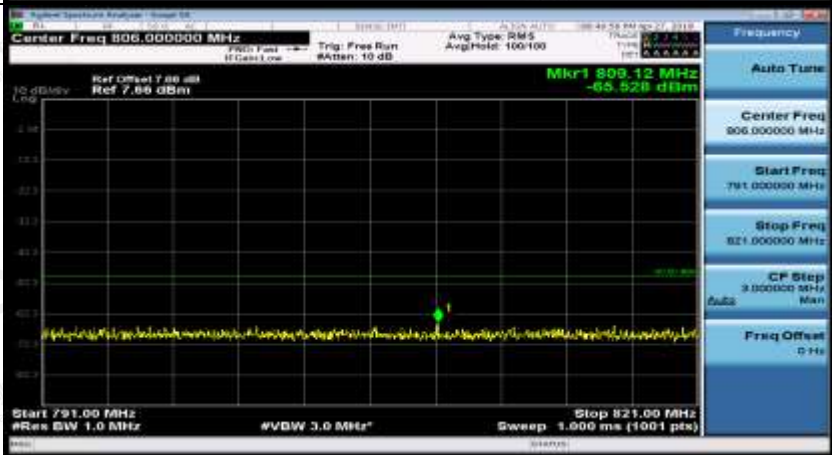
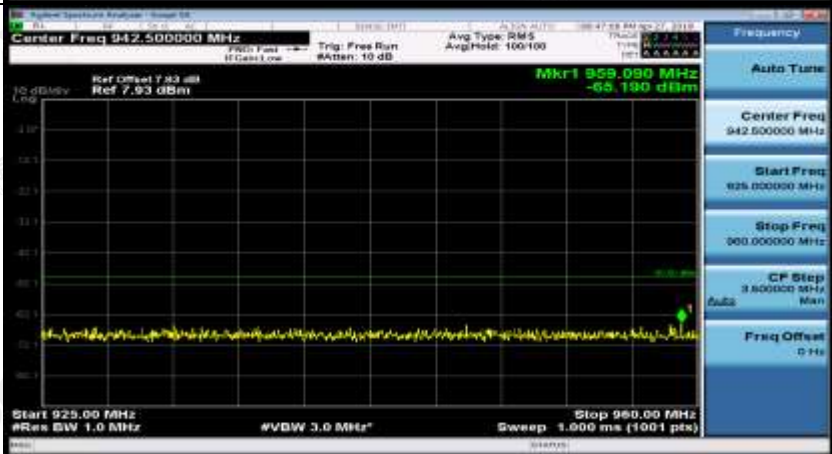
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	
General	

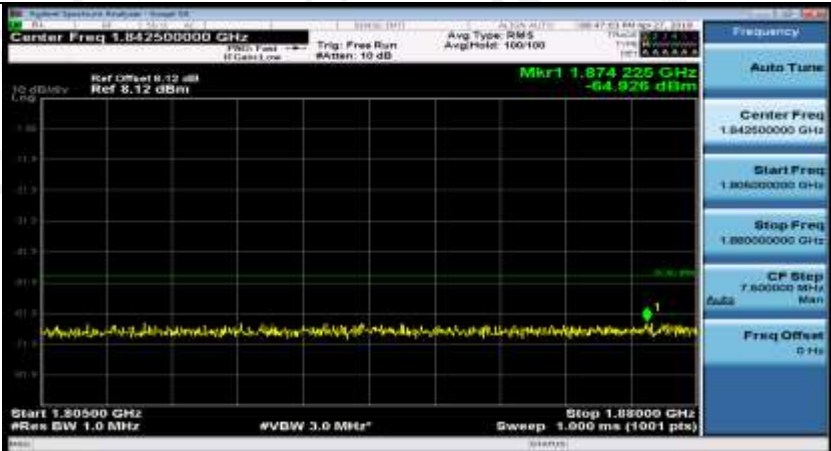
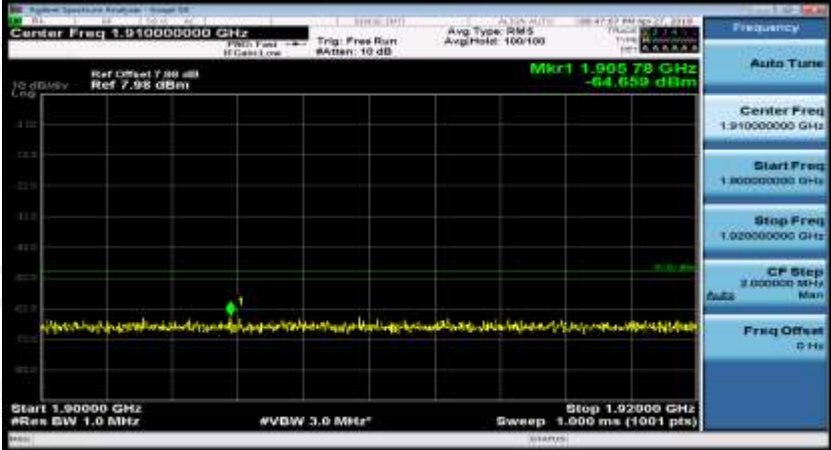
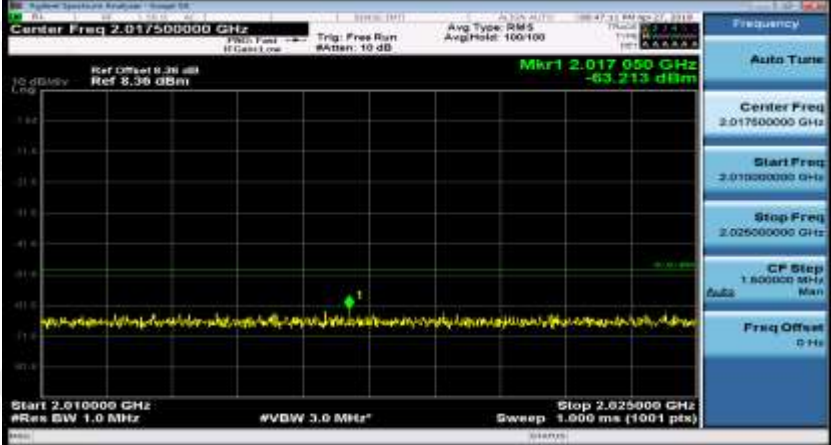
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General			
General			
General			

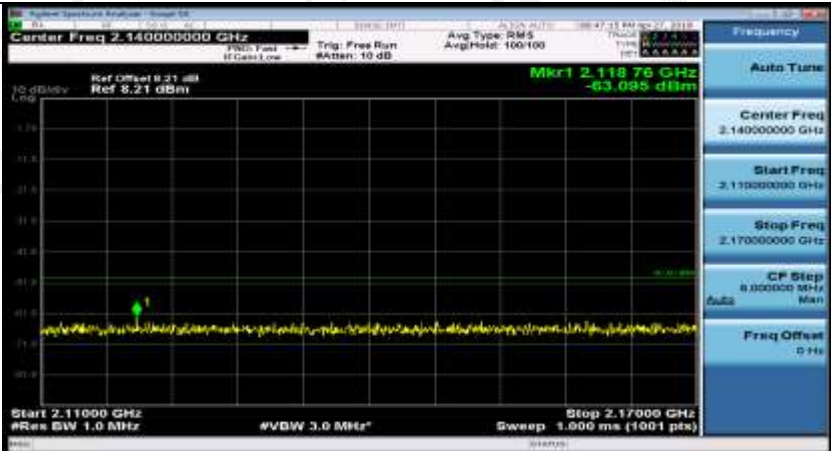
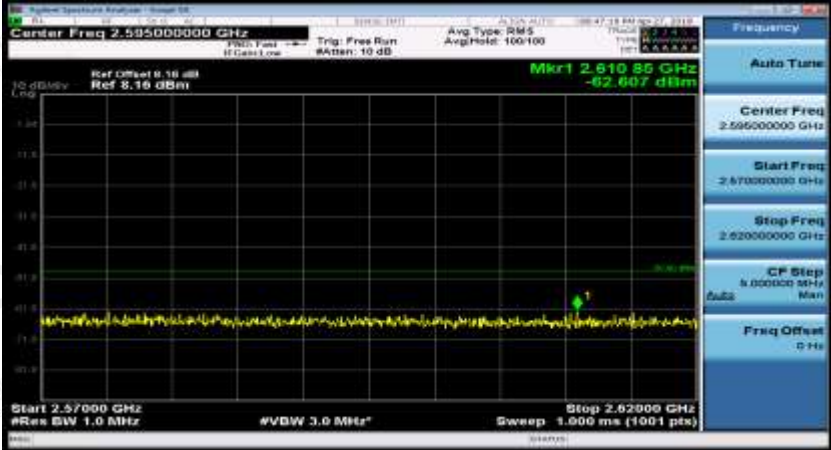
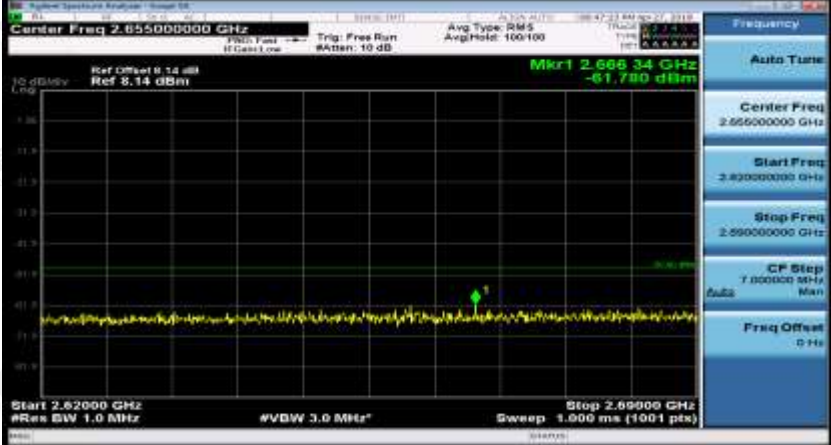
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General			
Co-existence			
Co-existence			

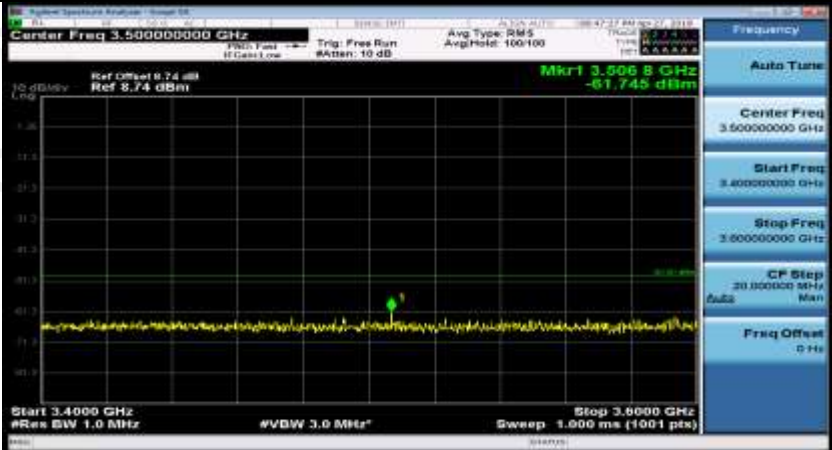
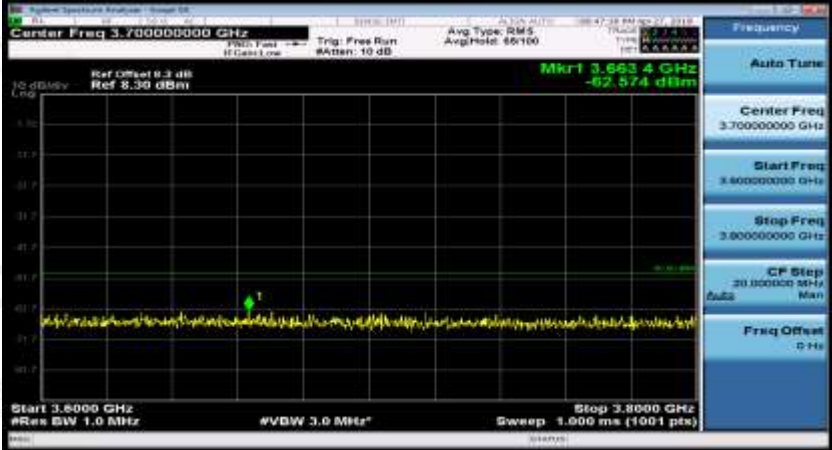
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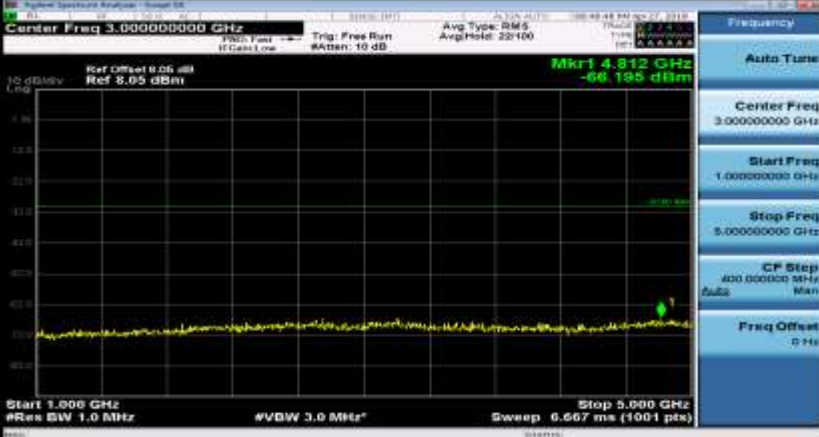

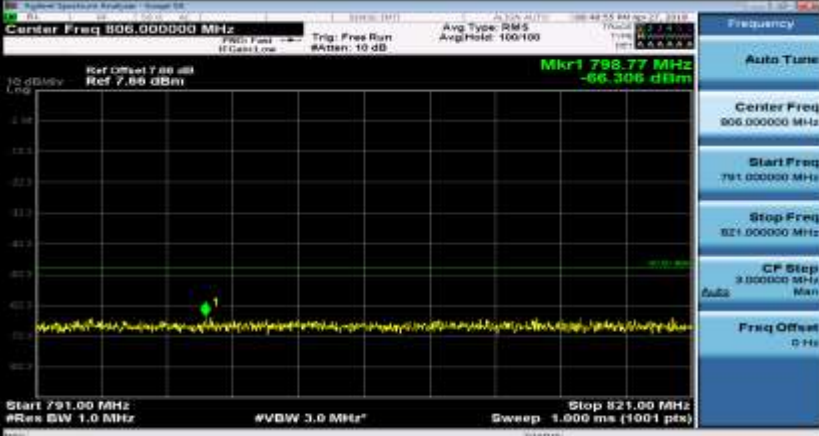
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0	
General	

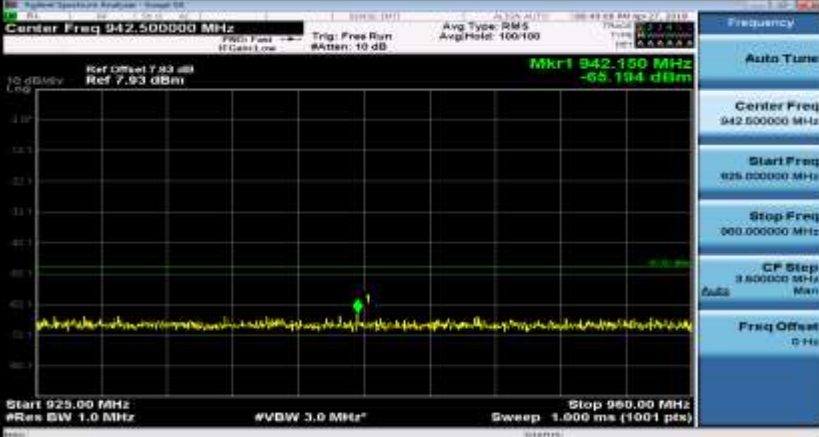
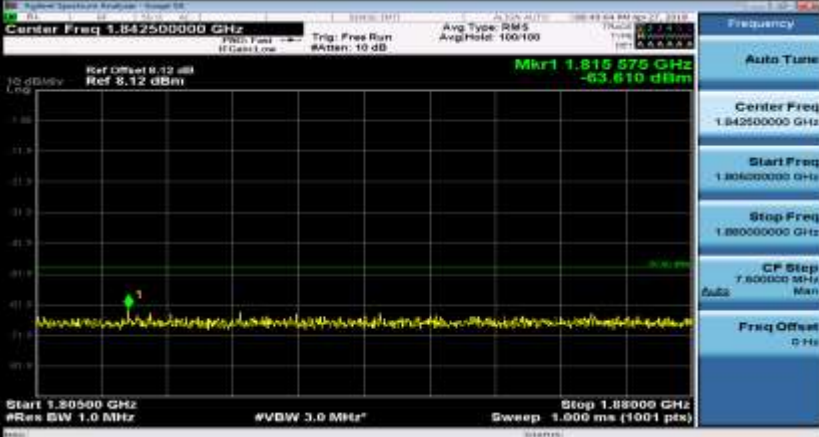
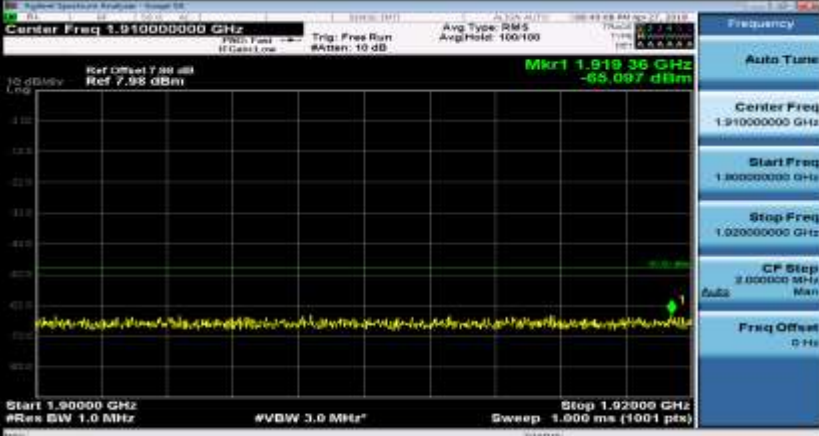
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General			
General			
General			

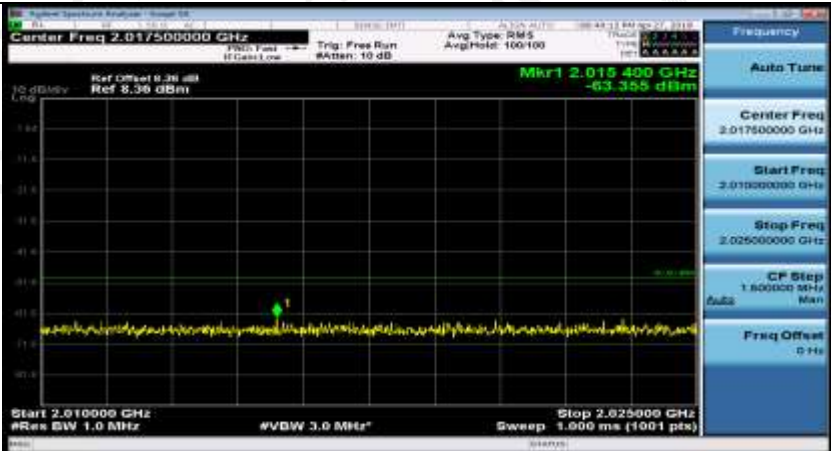
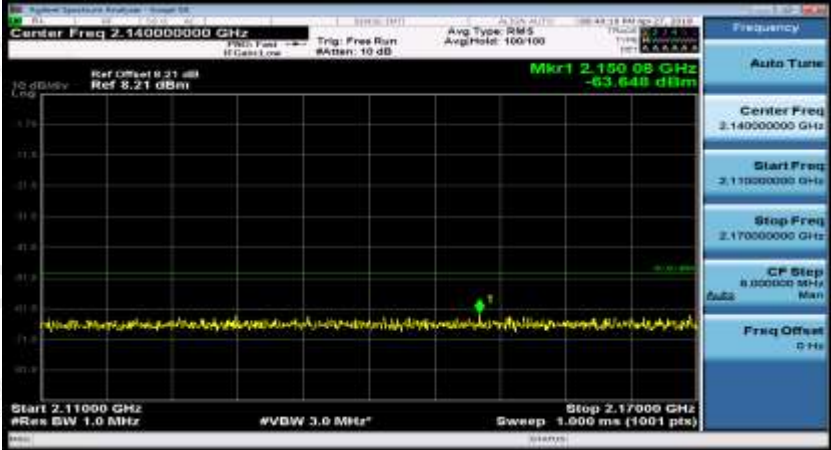
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General			
General			
Co-existence			

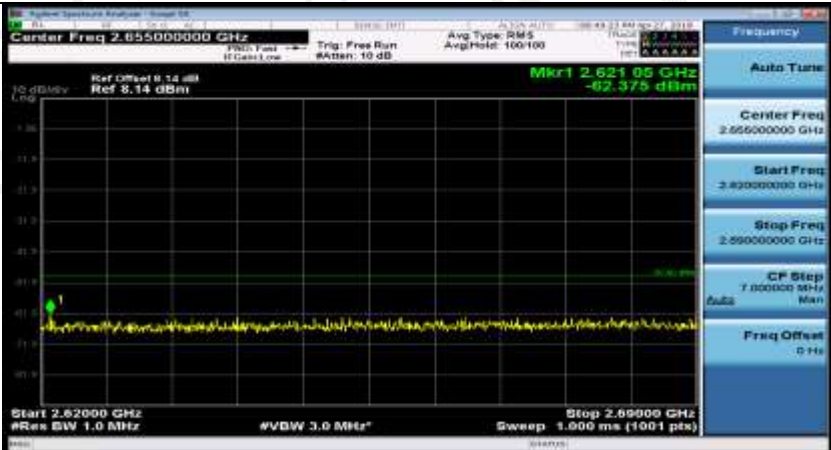
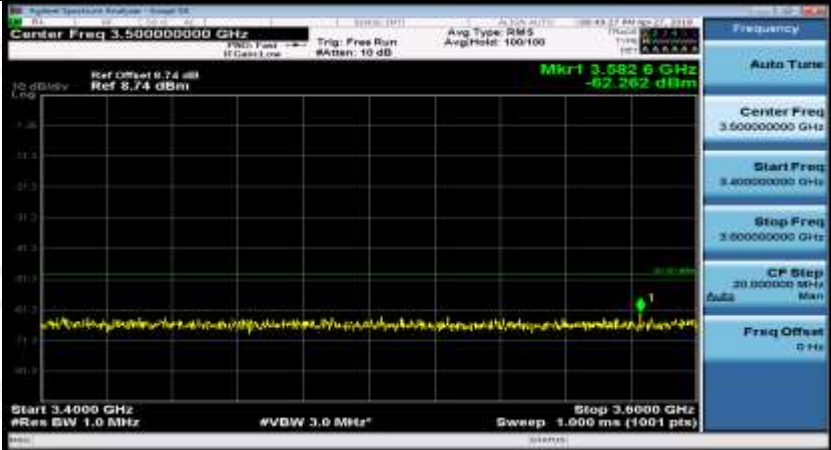
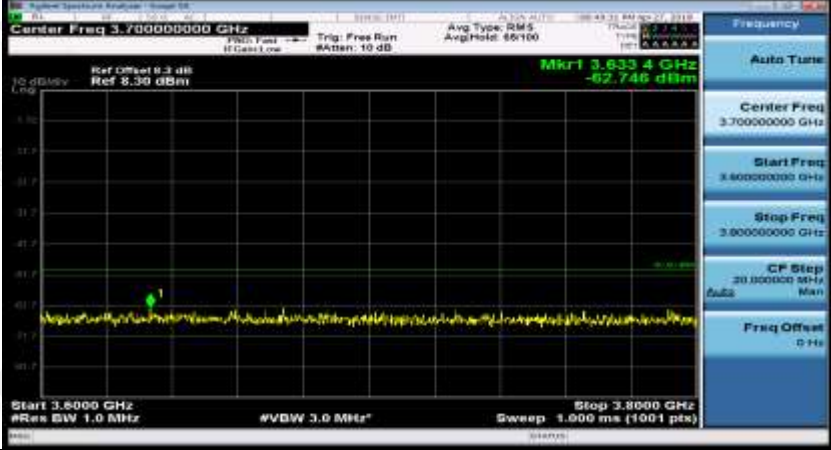
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Co-existence			
Co-existence			
Co-existence			

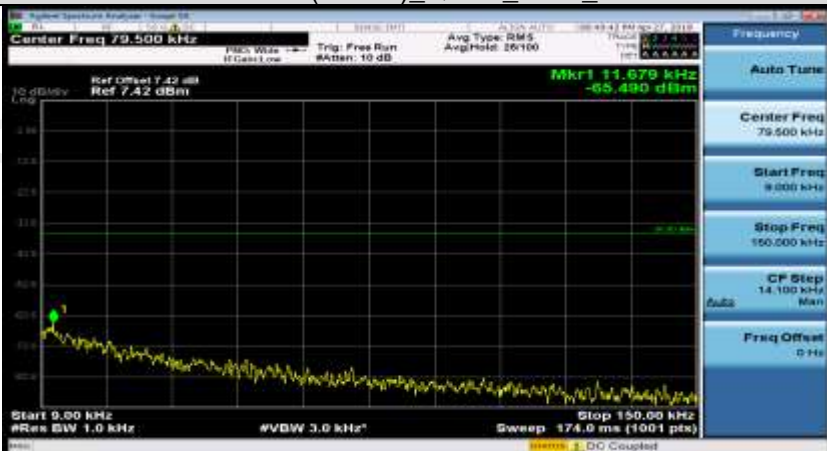
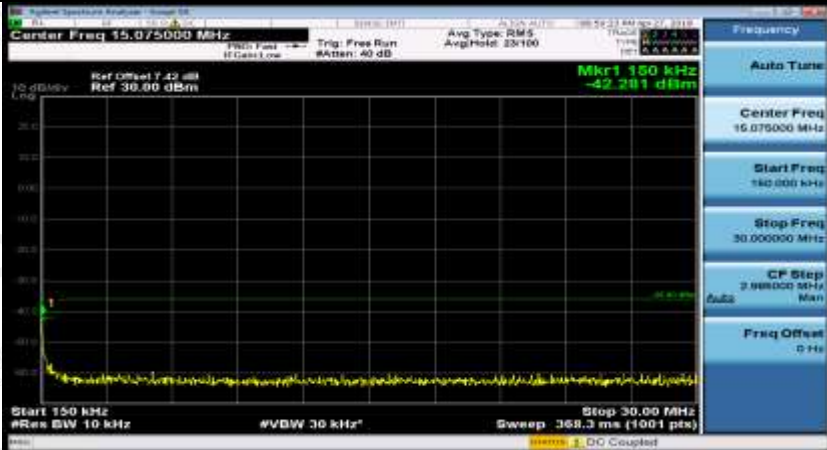
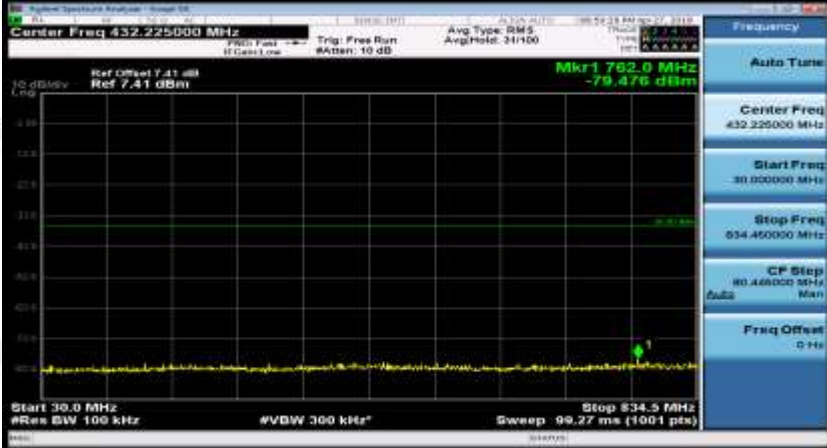
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Co-existence	
Co-existence	
Co-existence	

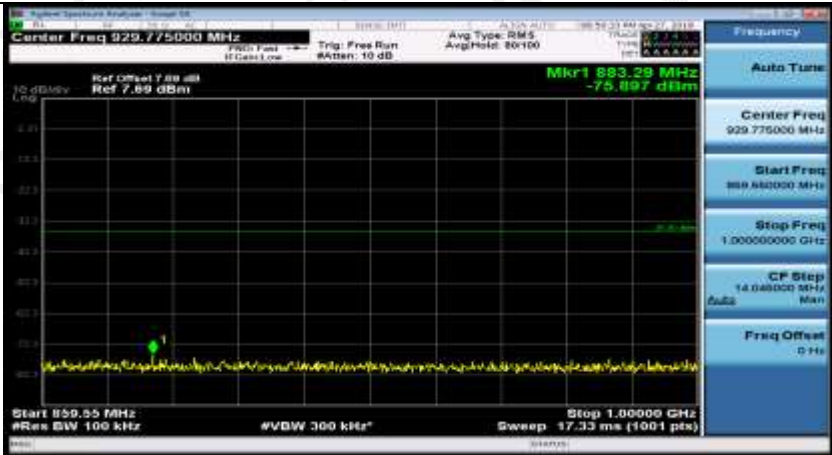

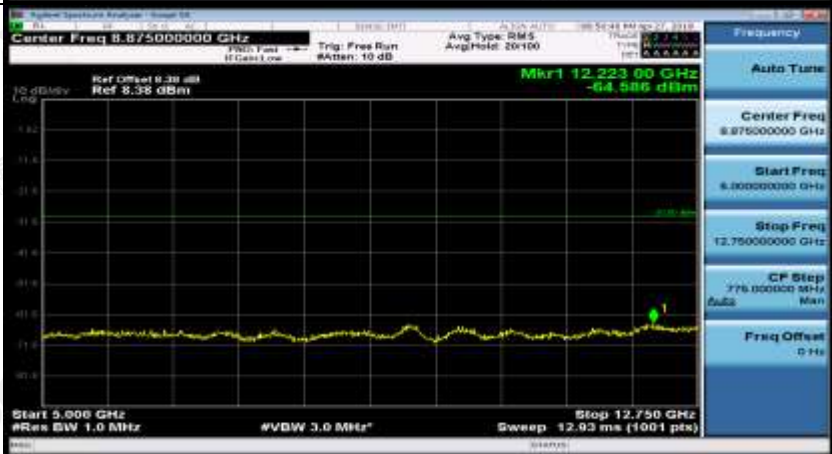
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Co-existence	
Co-existence	
Co-existence	
Additional	NA

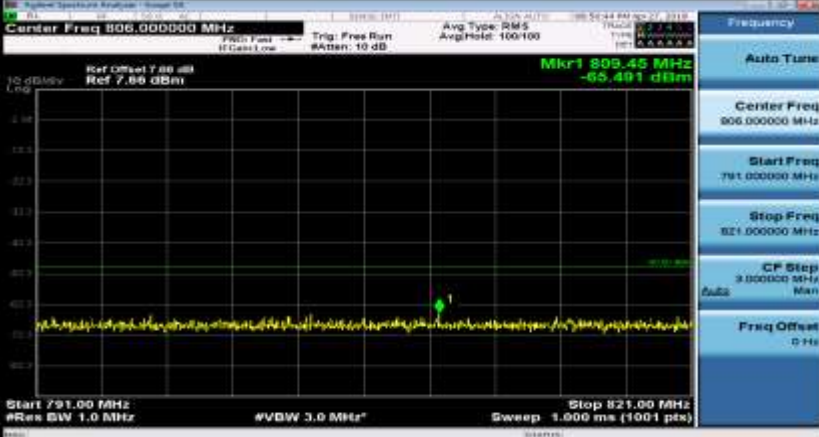
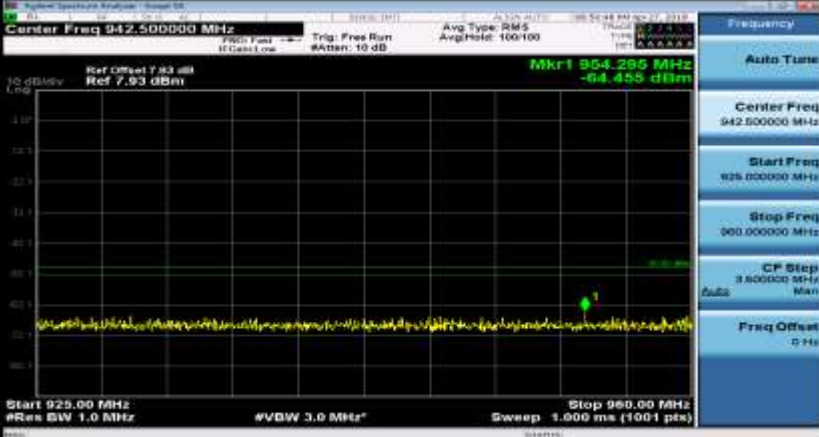
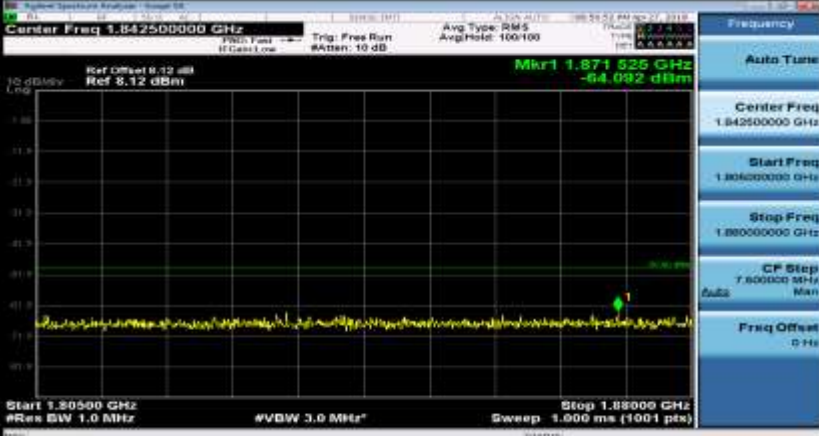
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Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0		
General		
General		
General		

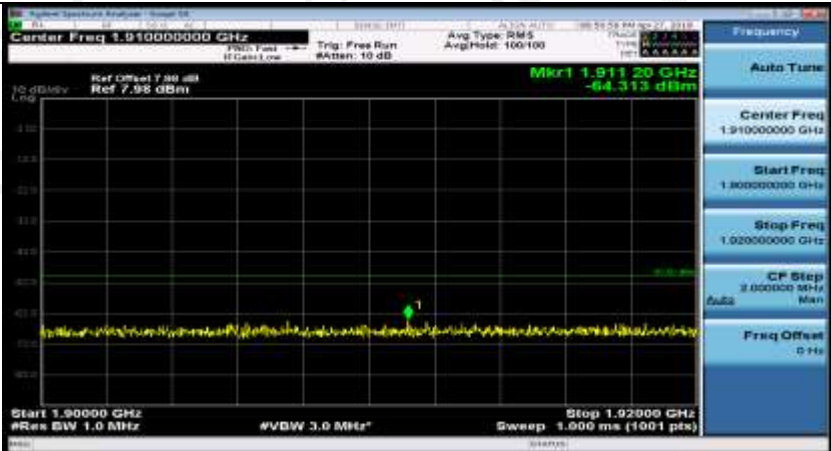
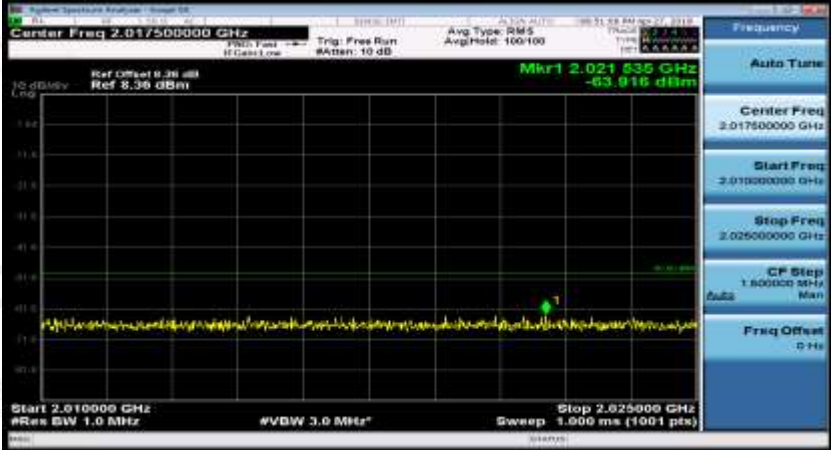
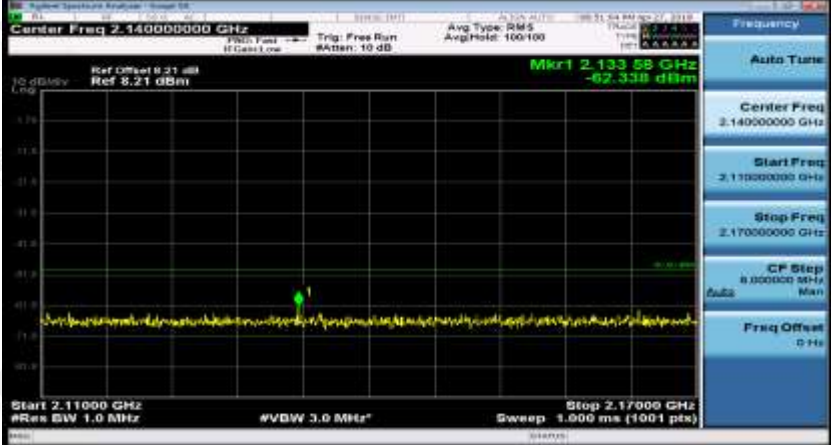
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General			
General			
General			

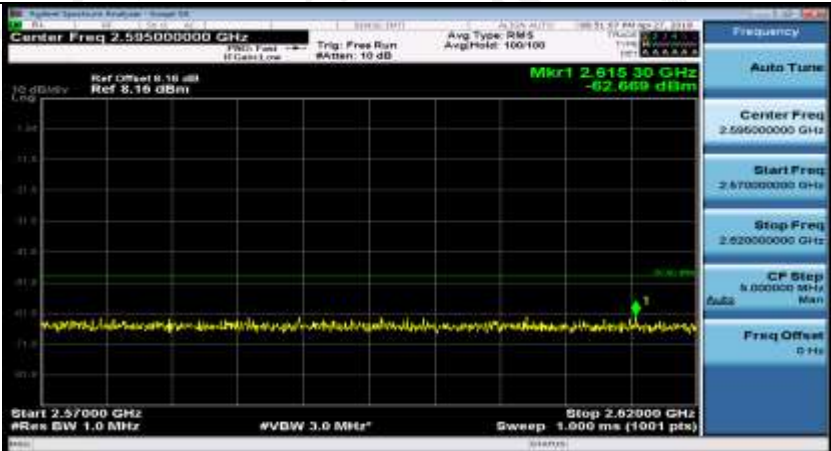
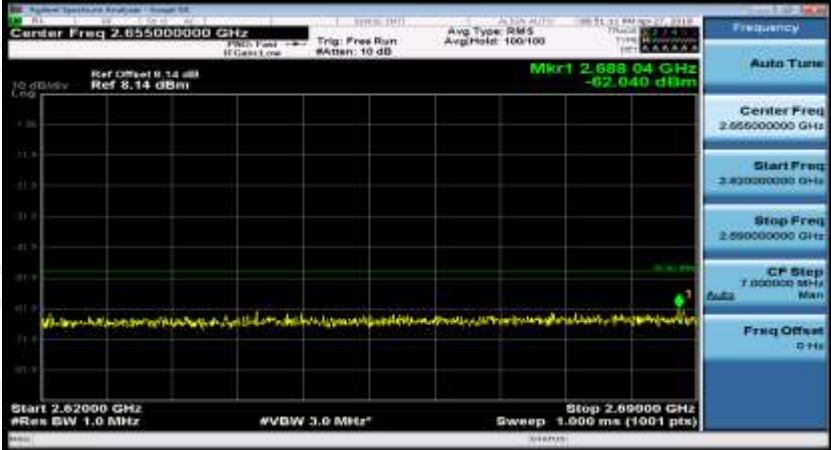
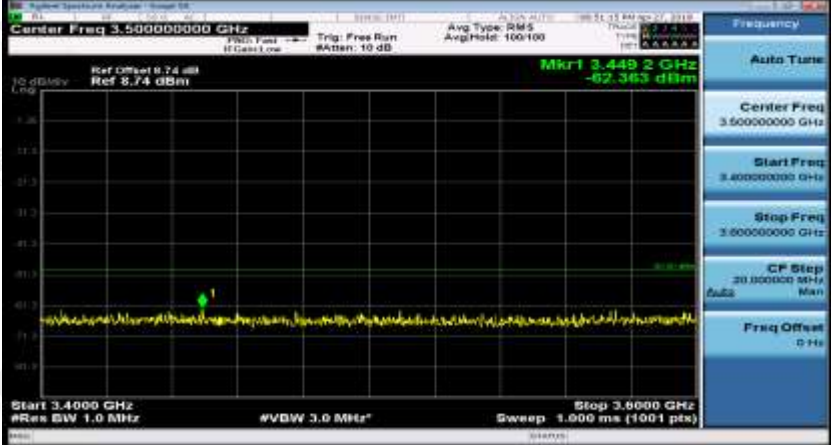
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Co-existence			
Co-existence			
Co-existence			

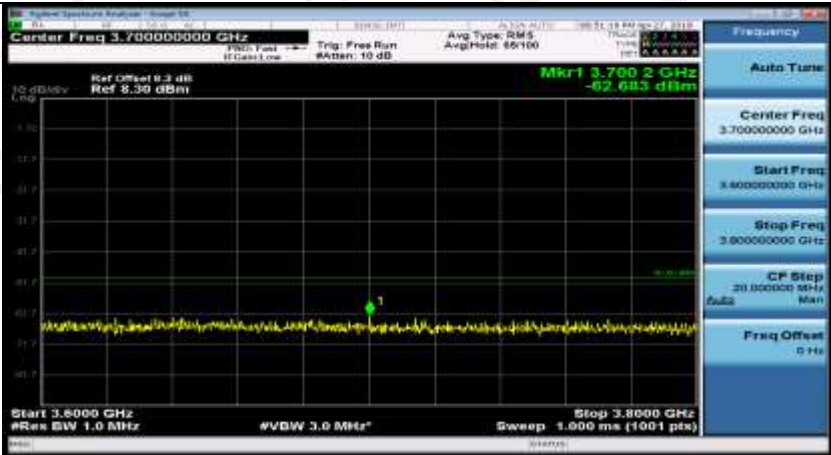
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Co-existence	
Co-existence	
Co-existence	

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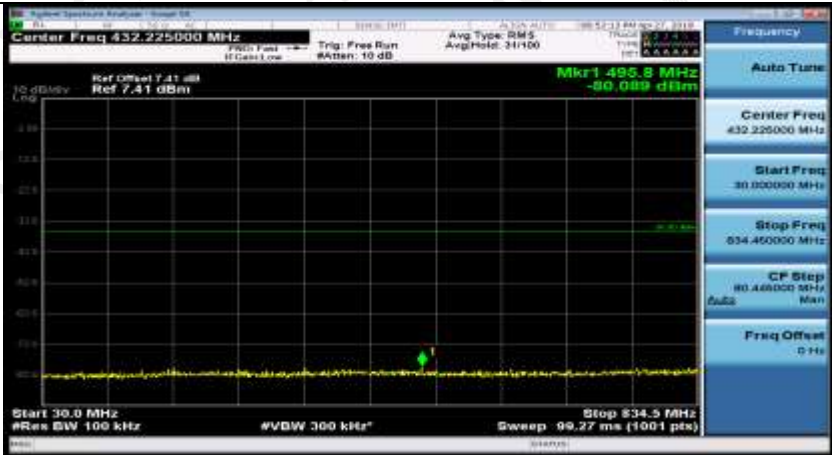
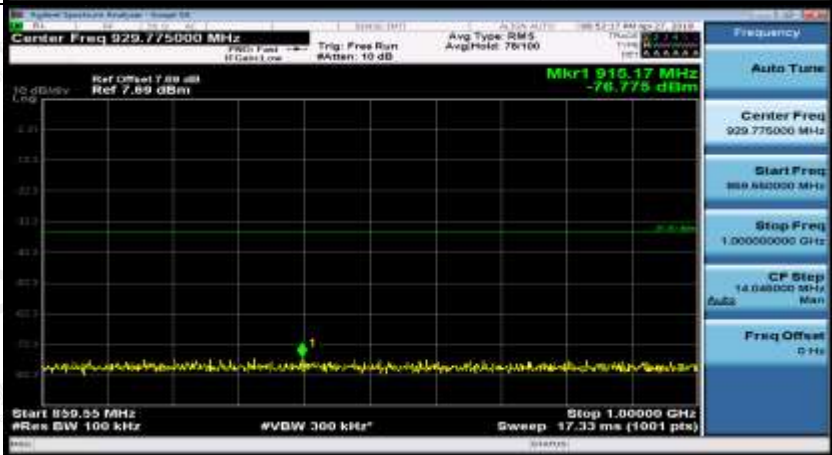

Co-existence	
Co-existence	
Co-existence	

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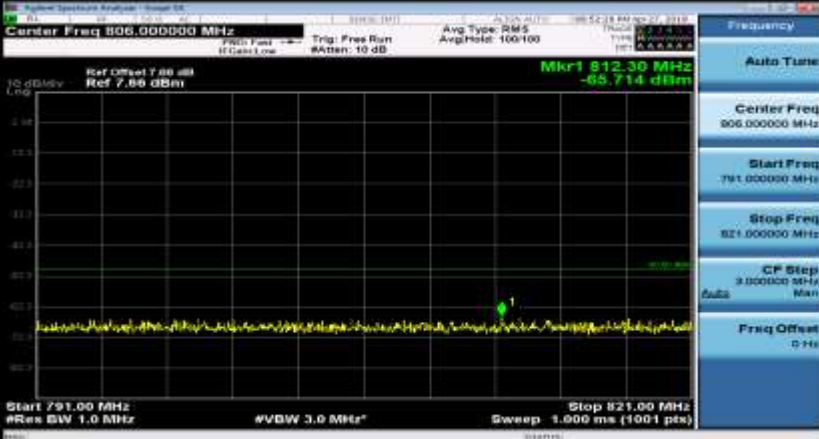
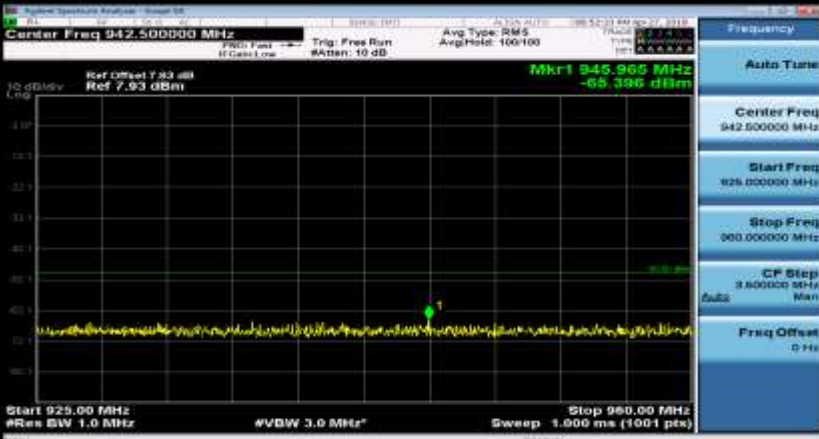
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	
General	

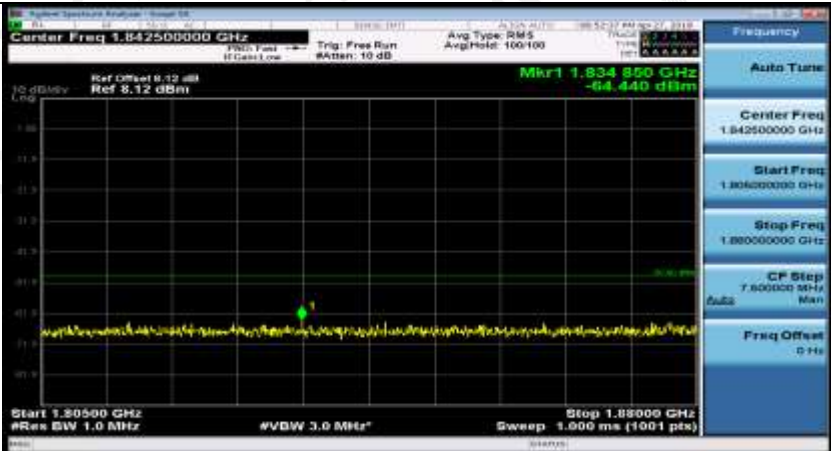
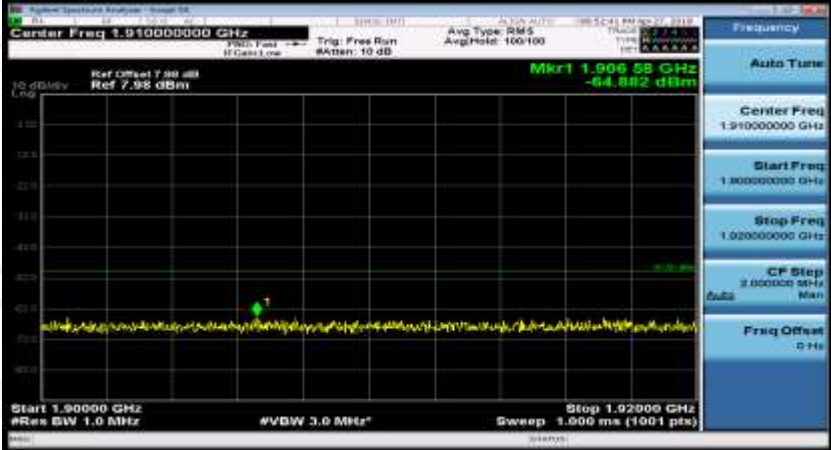
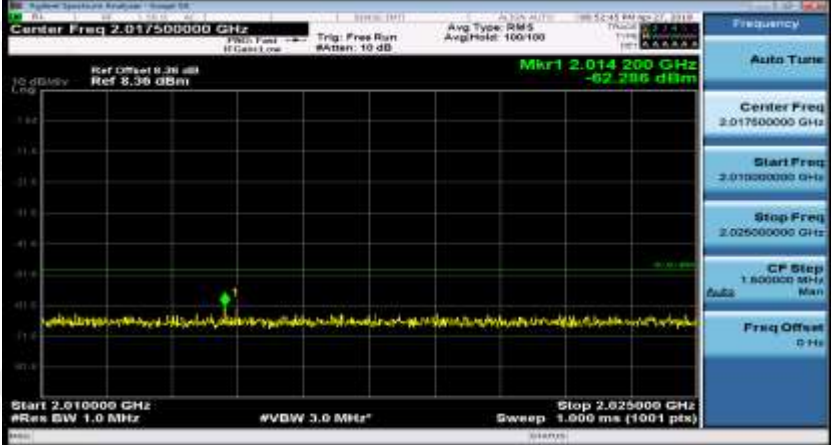
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General			
General			
General			

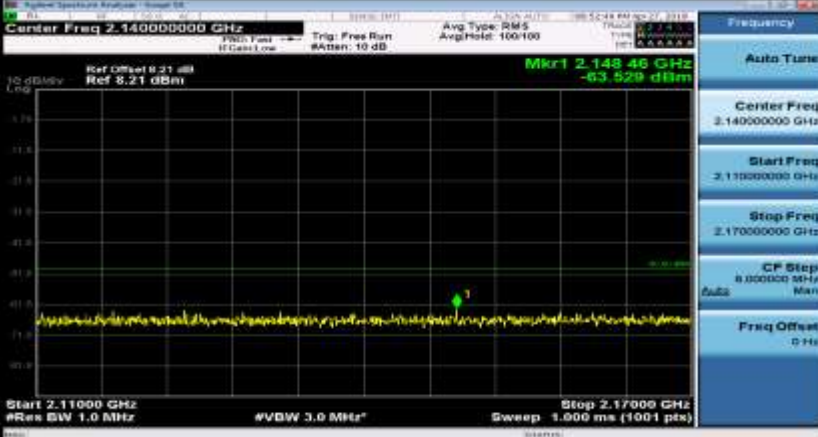
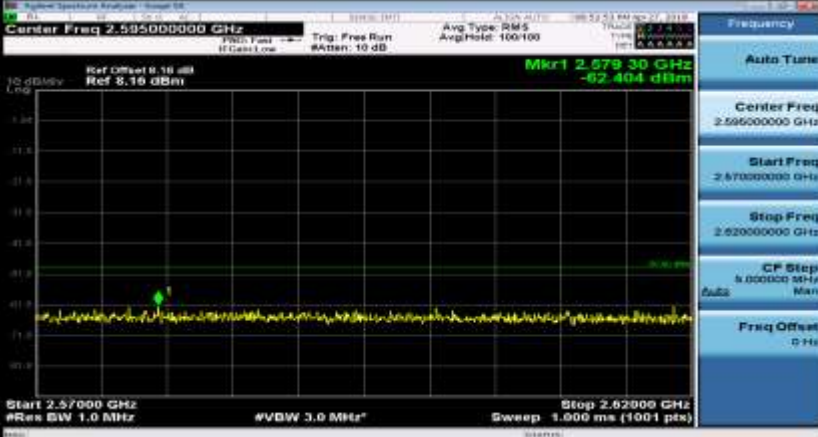

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General			
Co-existence			
Co-existence			

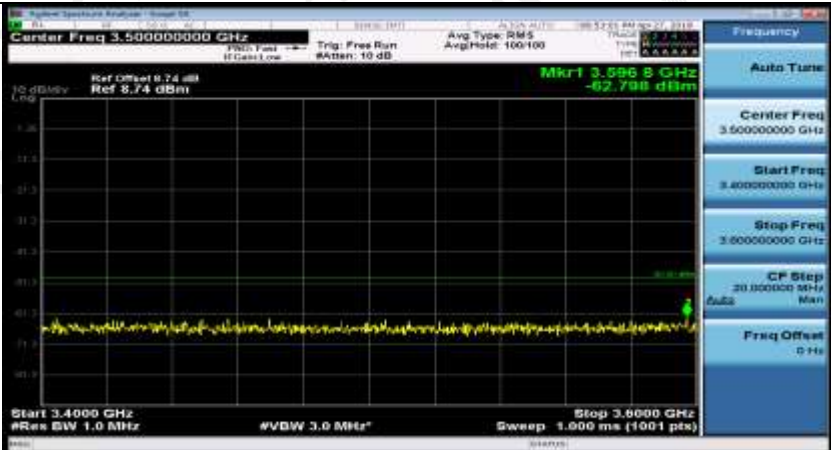
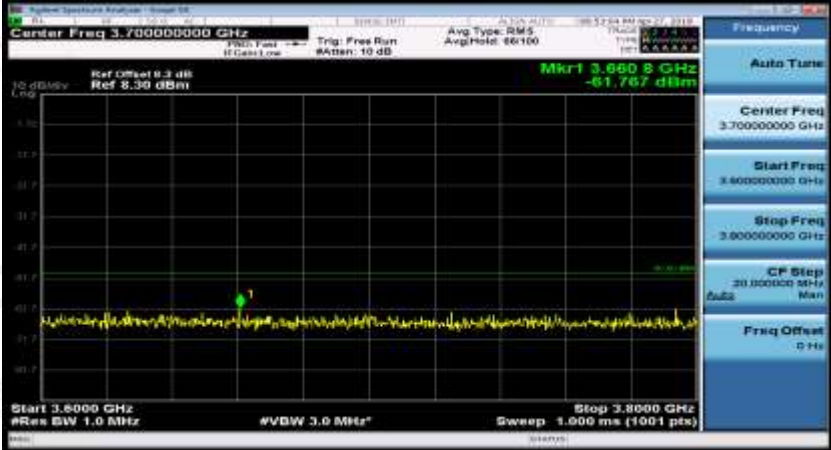
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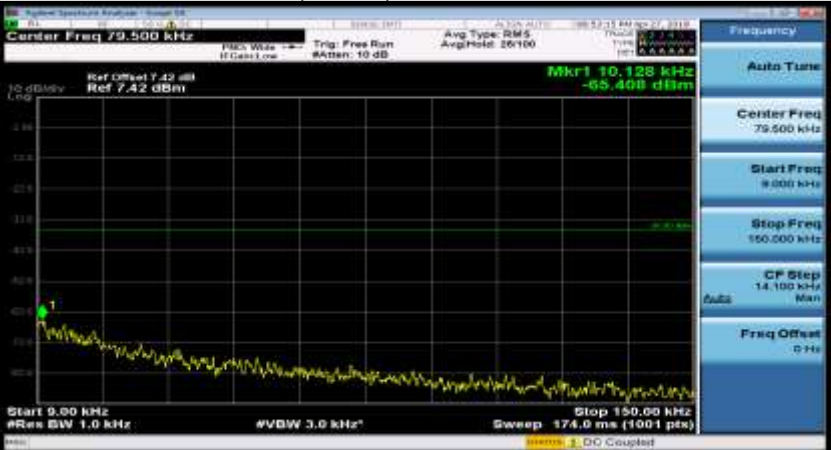
Co-existence	
Co-existence	
Co-existence	

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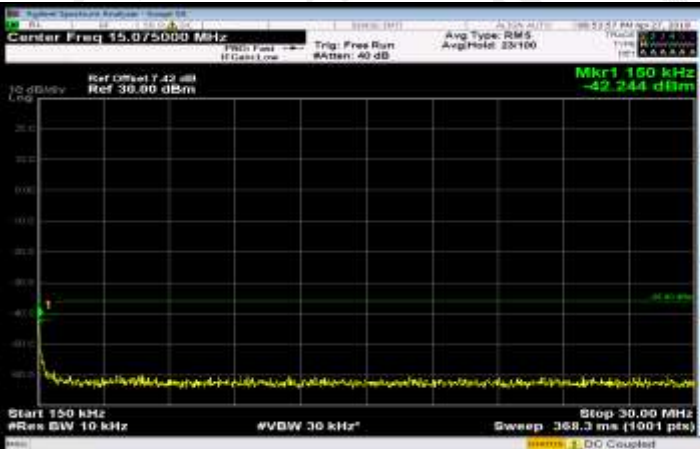

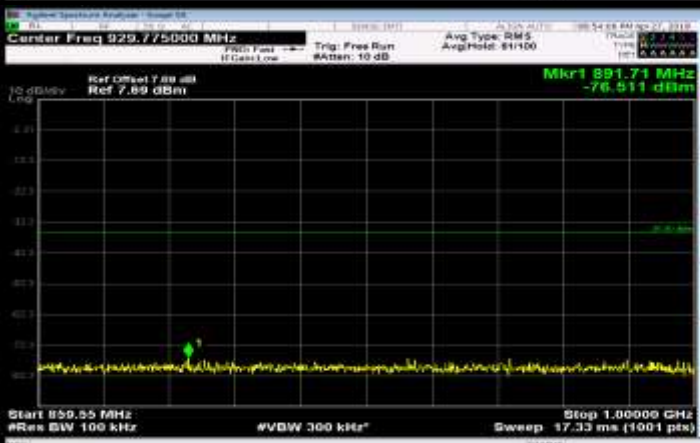
Co-existence			
Co-existence			
Co-existence			

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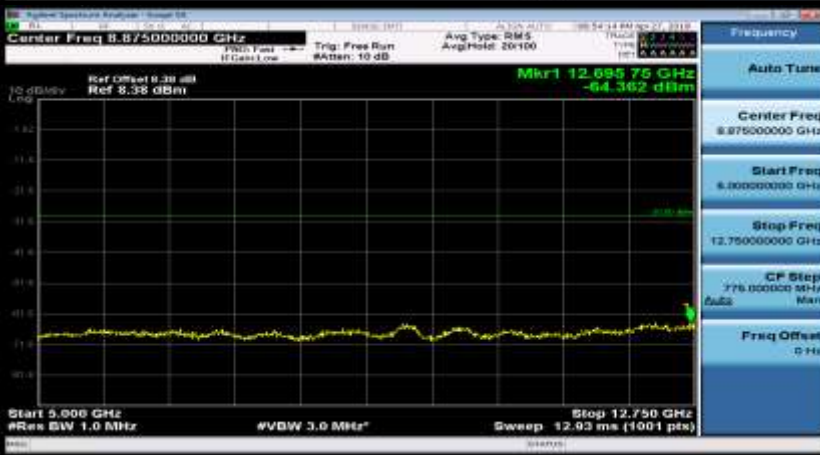
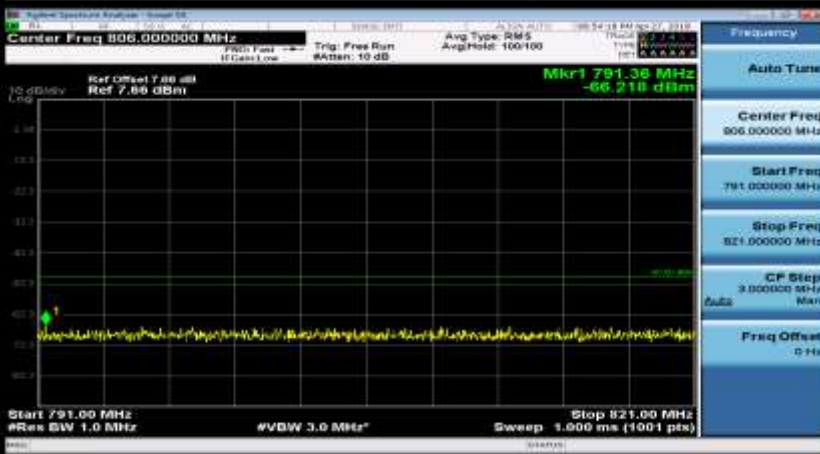
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
General	

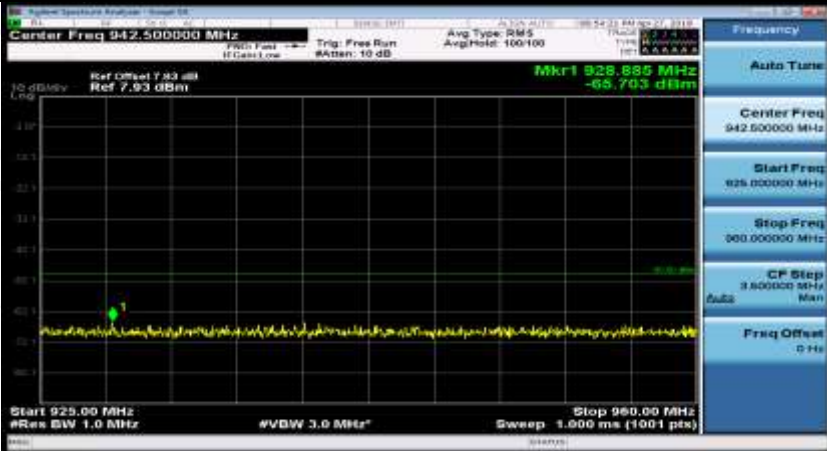
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General			
General			
General			

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General		
General		
Co-existence		

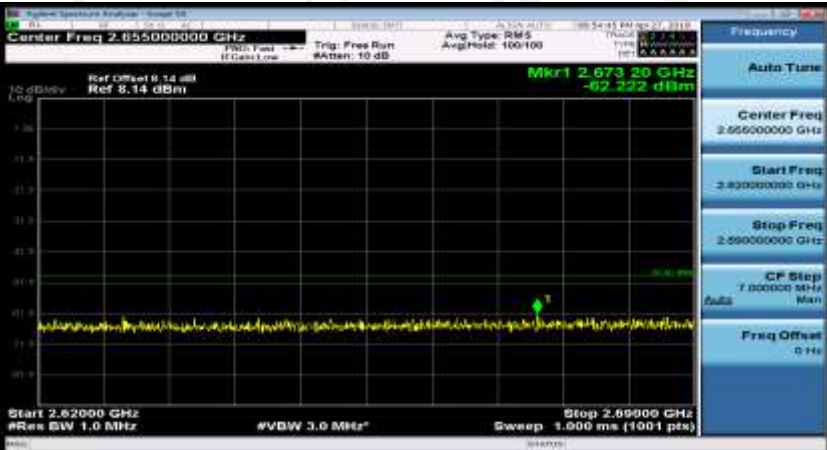
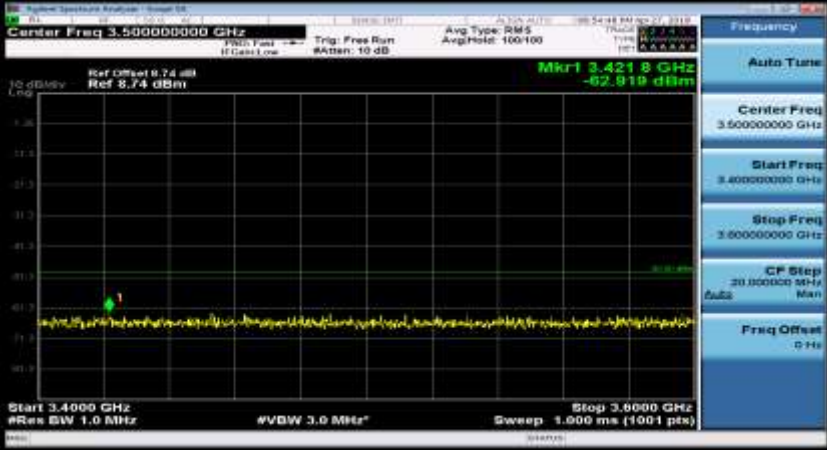

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Co-existence	
Co-existence	
Co-existence	



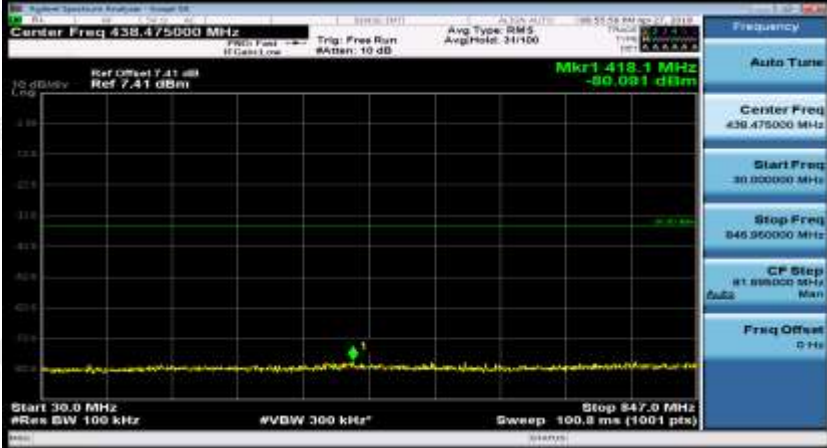
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Co-existence	
Co-existence	
Co-existence	

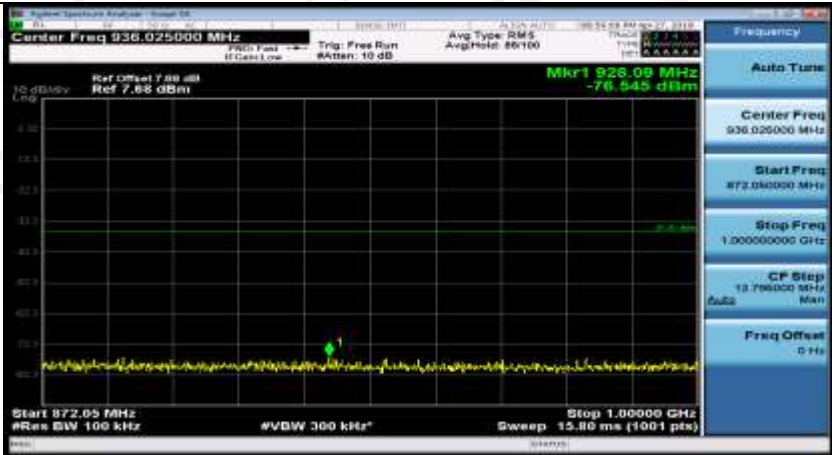


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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0	
General	
General	
General	

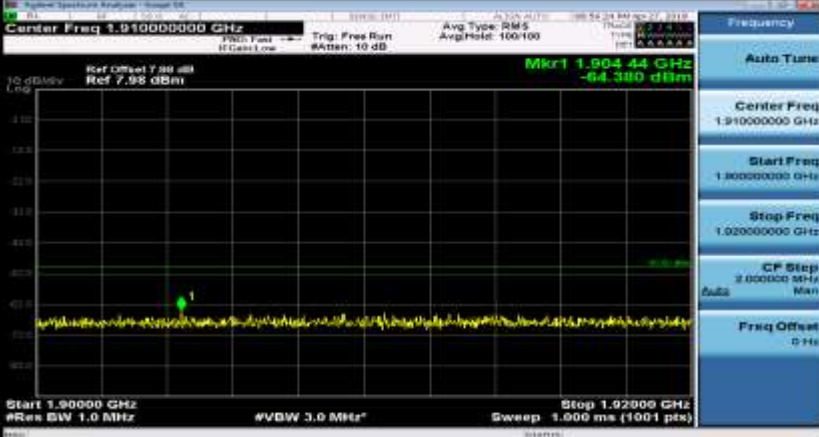
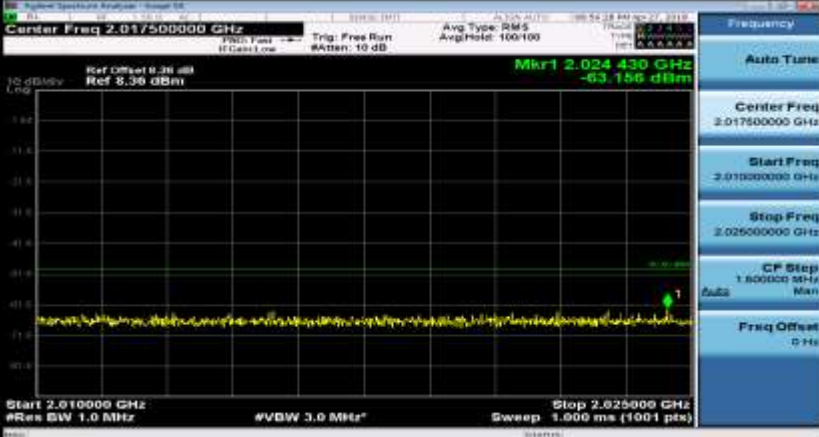
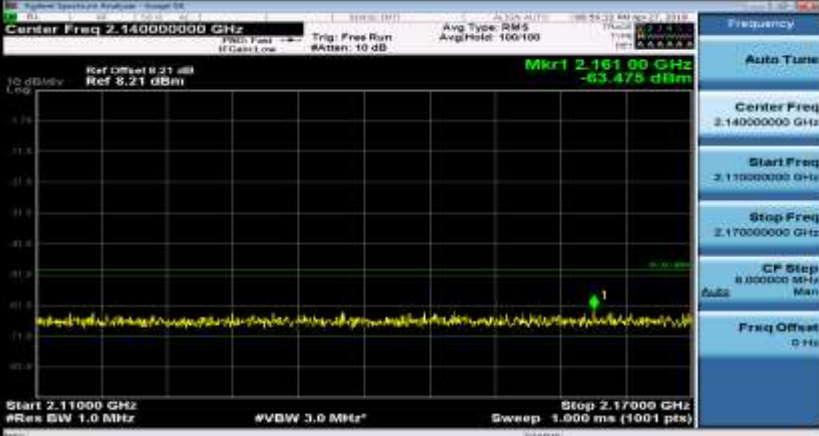
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General			
General			
General			

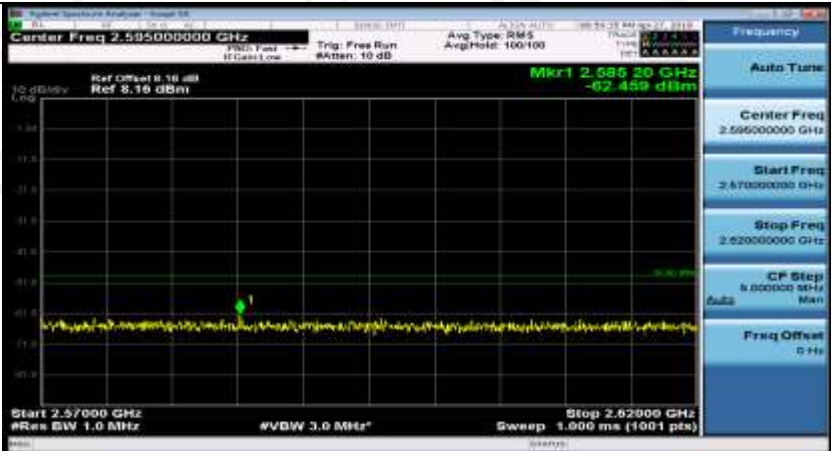
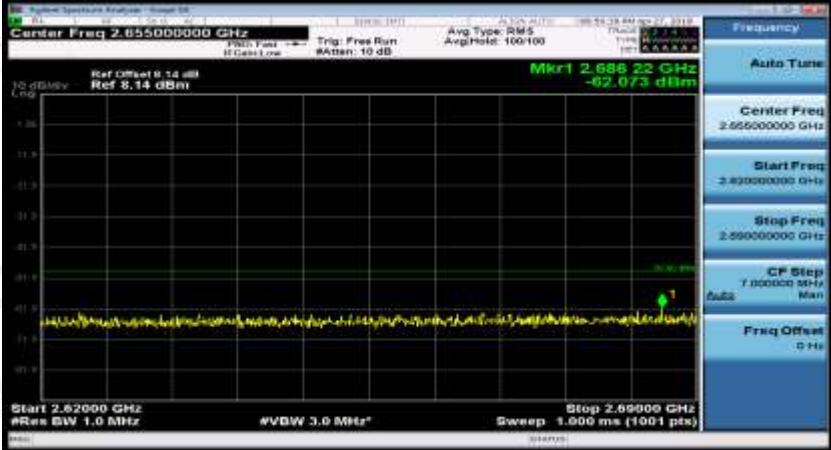
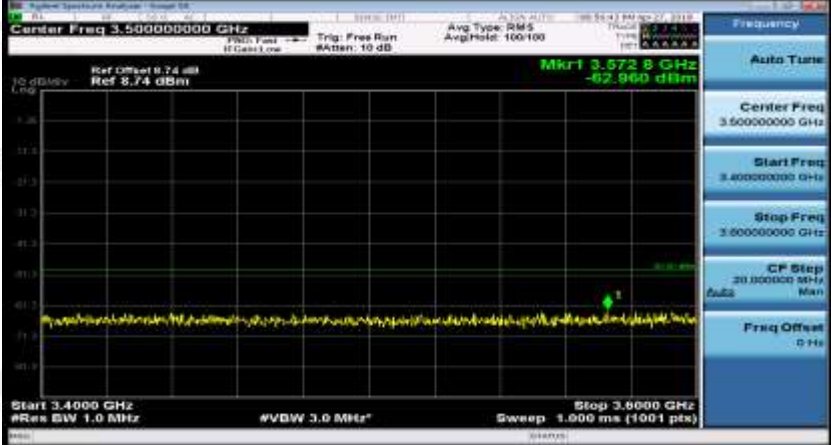
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Co-existence			
Co-existence			
Co-existence			

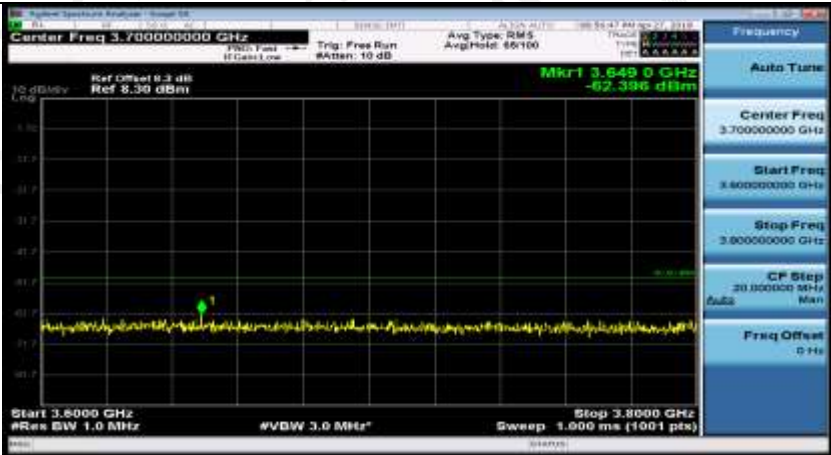
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Co-existence			
Co-existence			
Co-existence			

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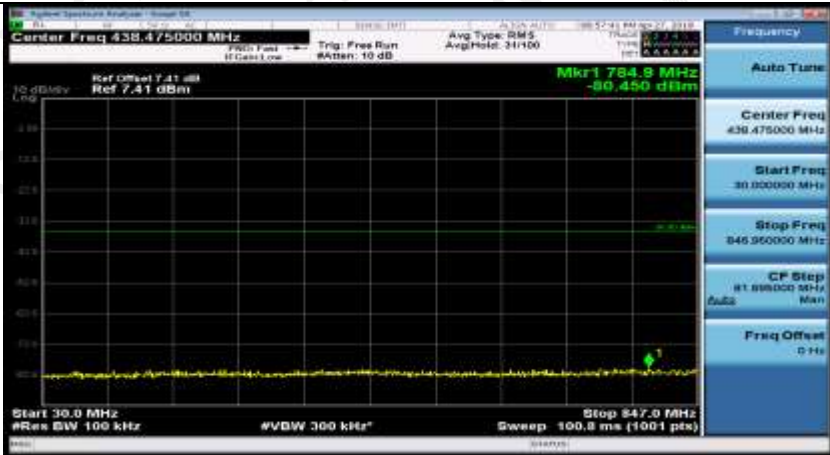
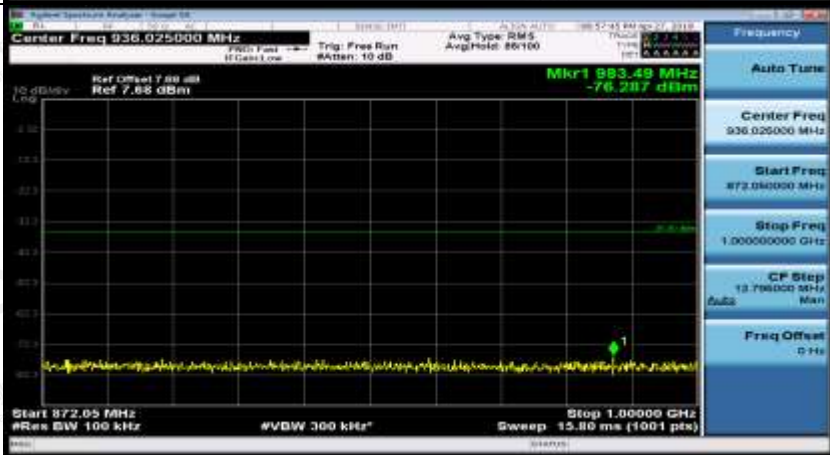
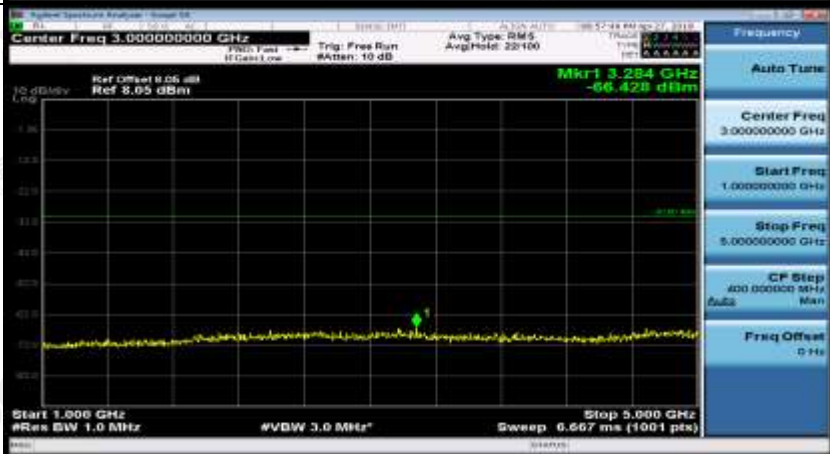
Co-existence	
Co-existence	
Co-existence	

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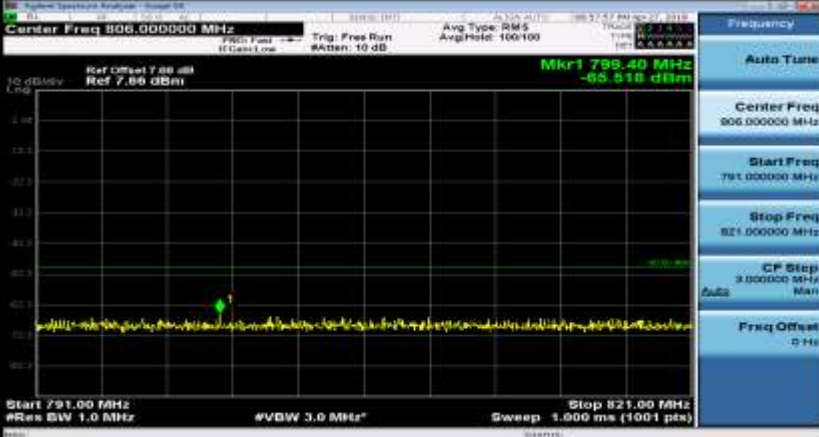
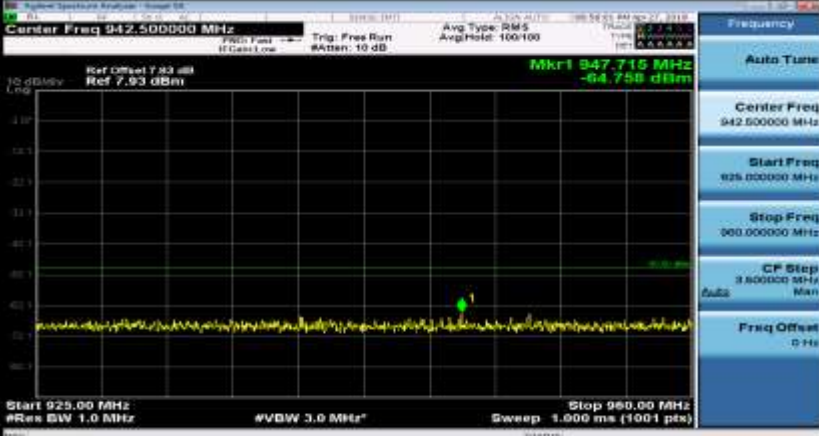
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

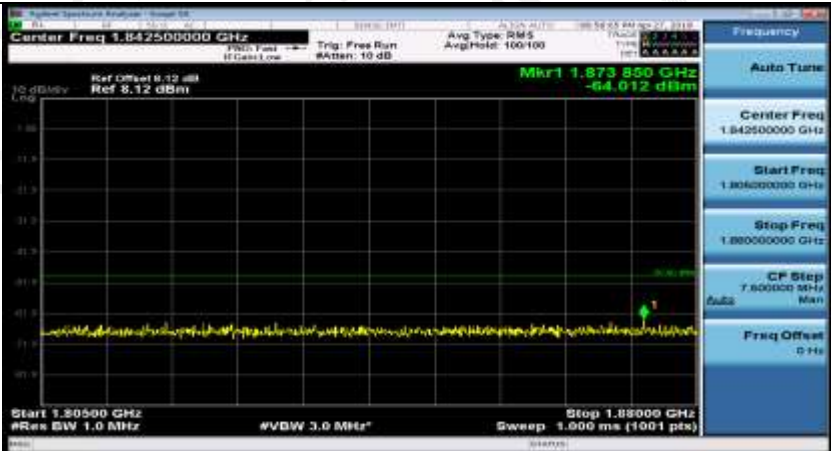
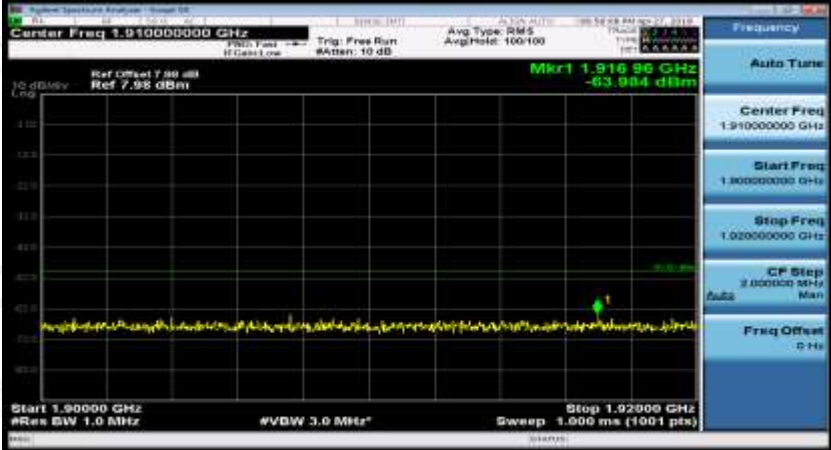
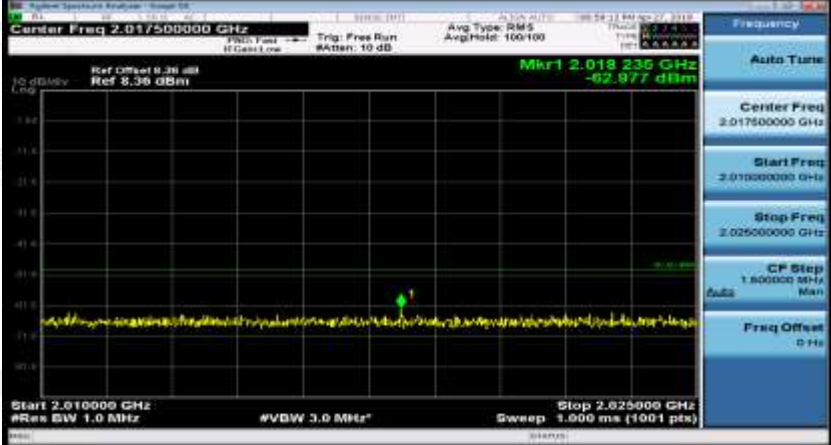
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General			
General			
General			

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General			
Co-existence			
Co-existence			


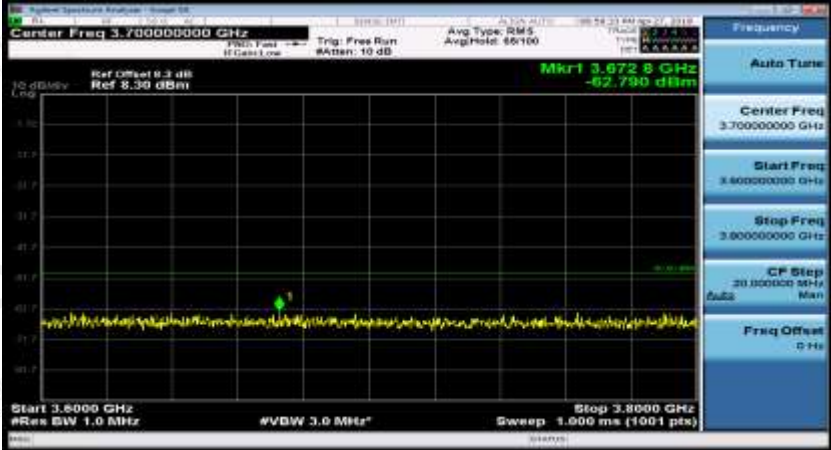
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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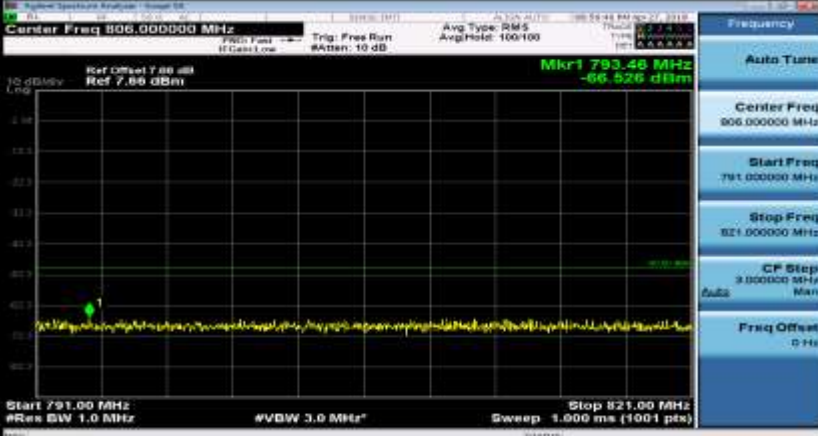
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
General	

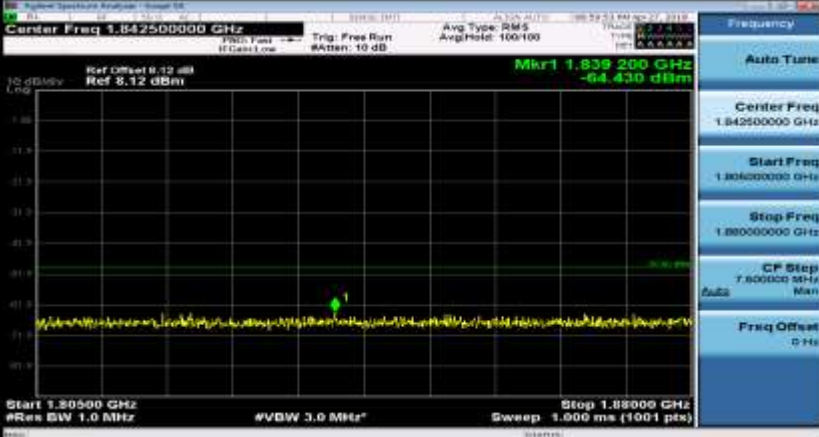
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General			
General			
General			

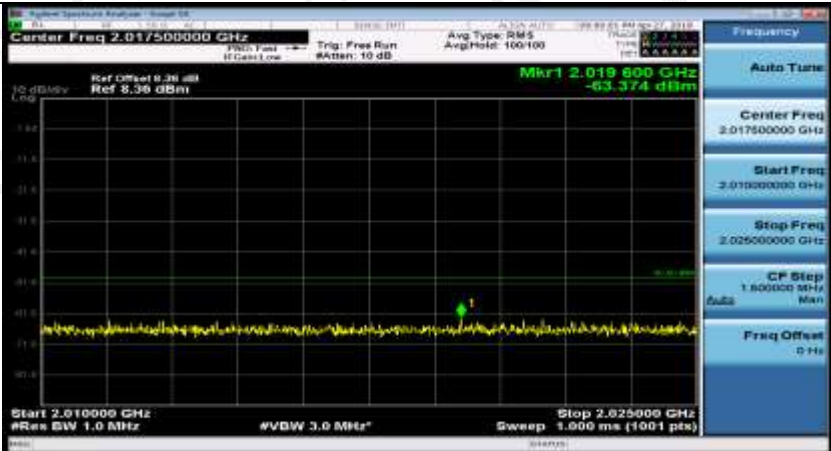
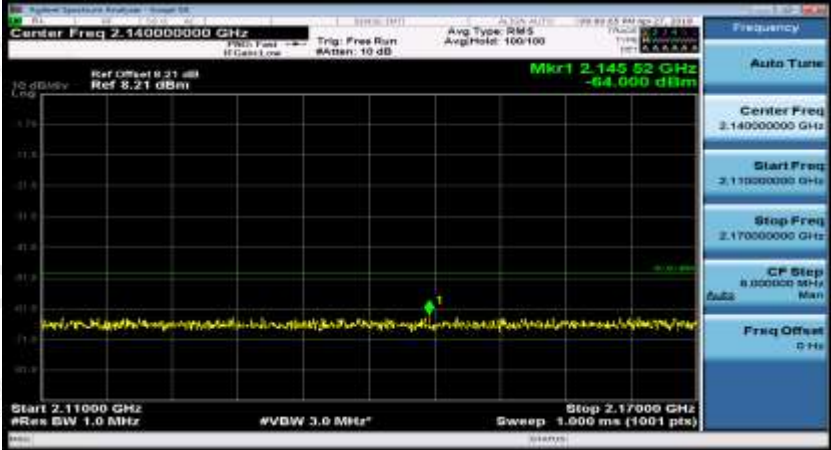
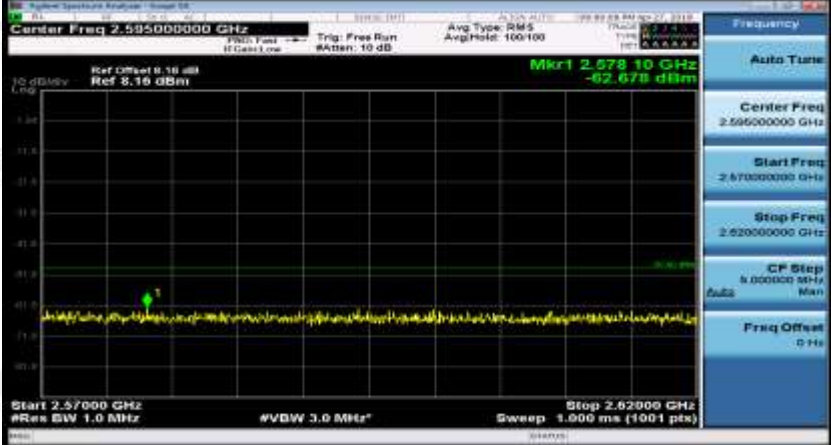
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General			
General			
Co-existence			

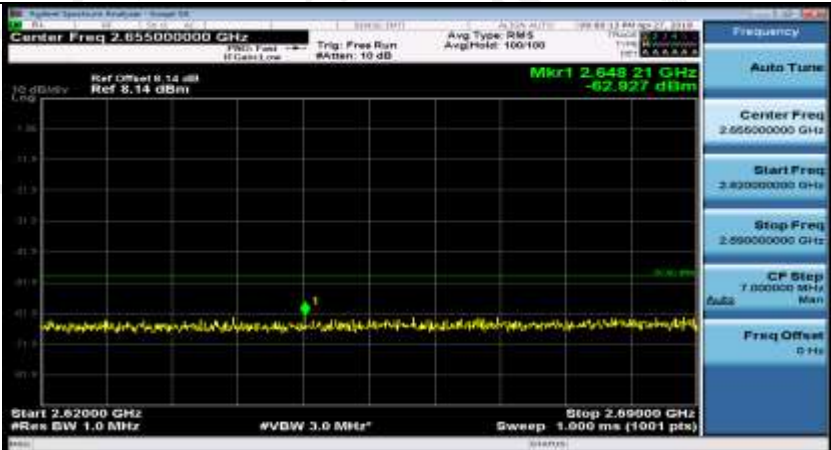
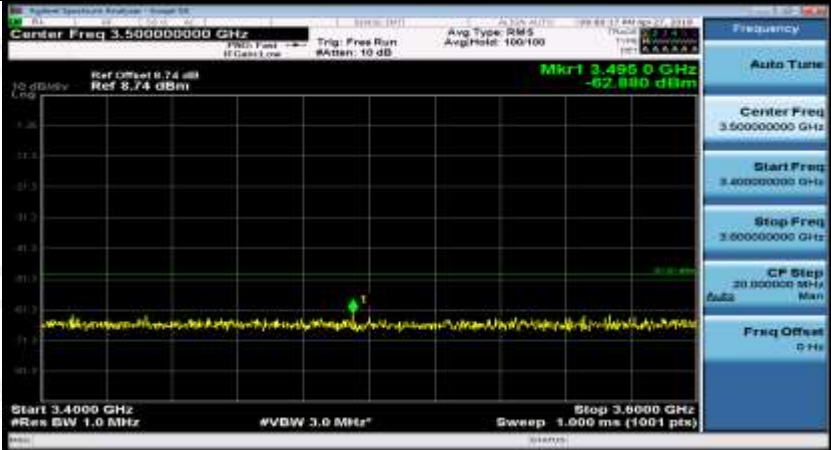
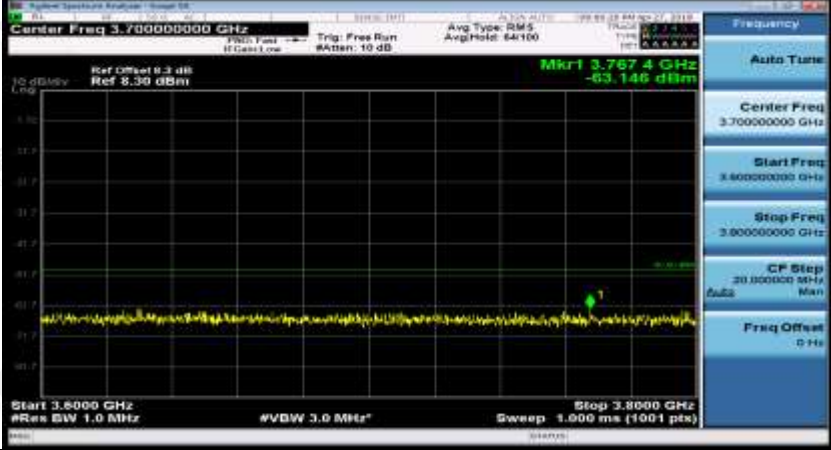
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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

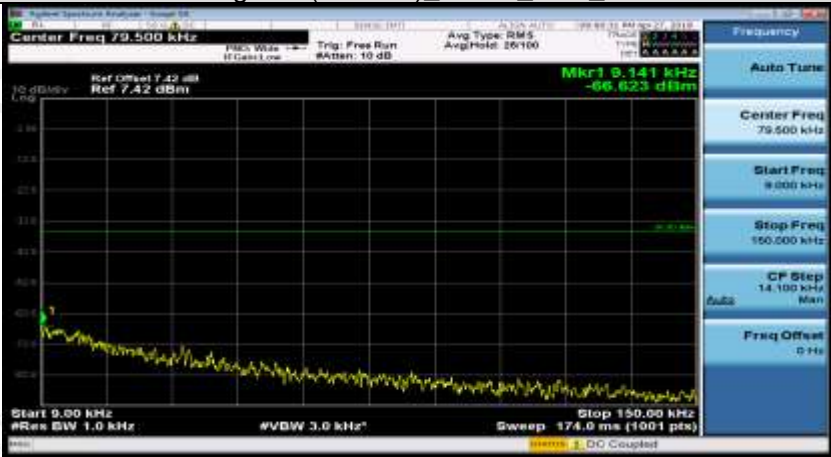
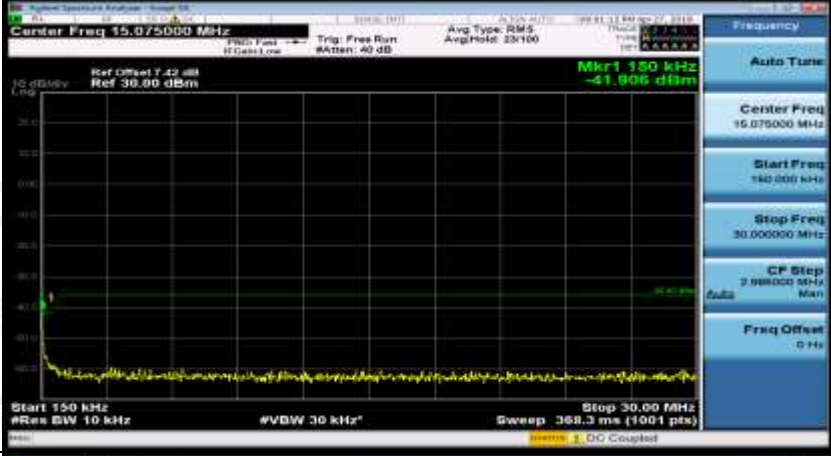
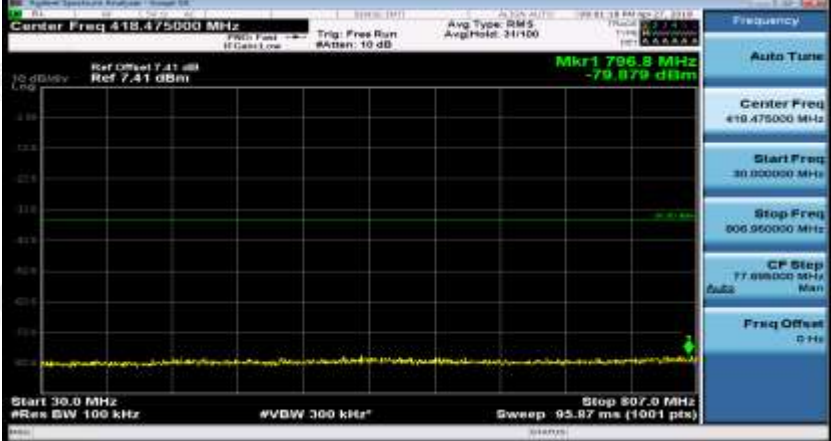
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Co-existence	
Co-existence	
Co-existence	
Additional	NA

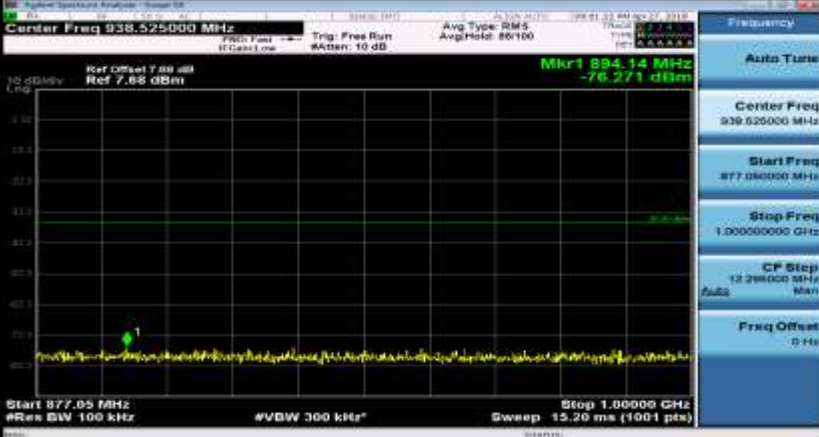


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Channel Bandwidth= (20 MHz)

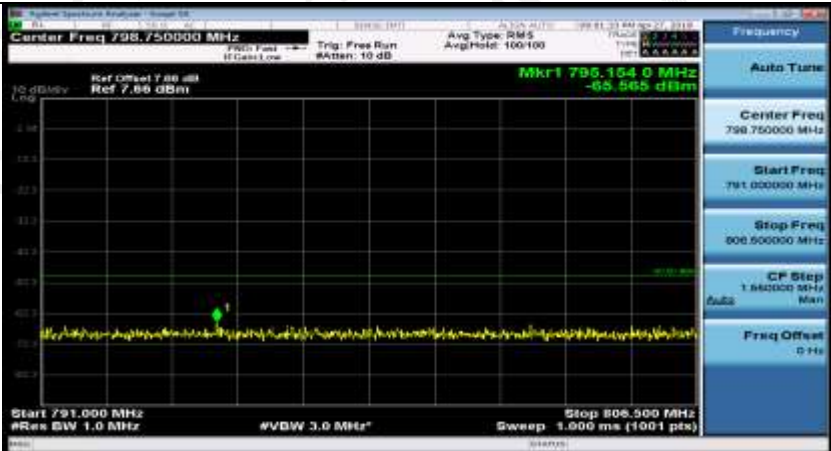
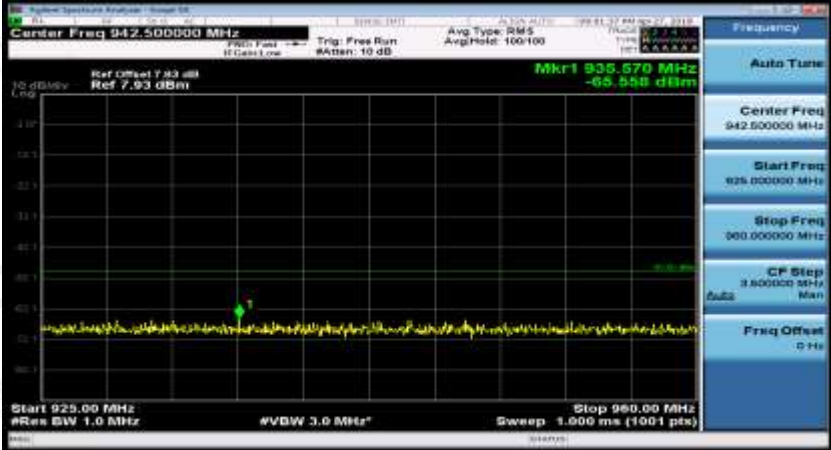
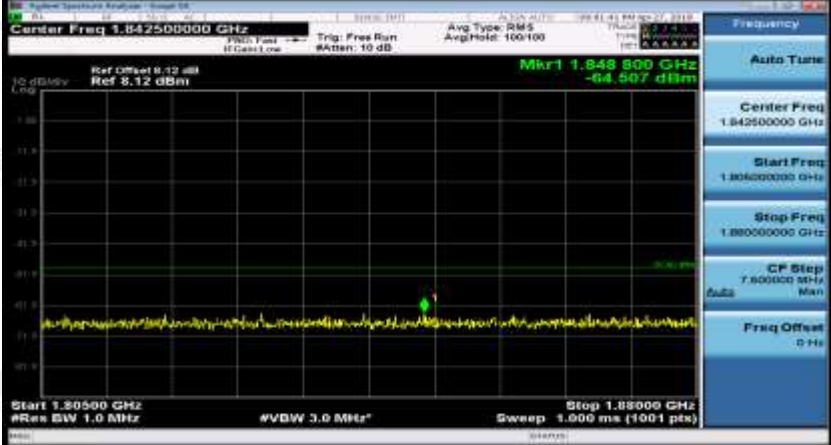
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0

General		
General		
General		

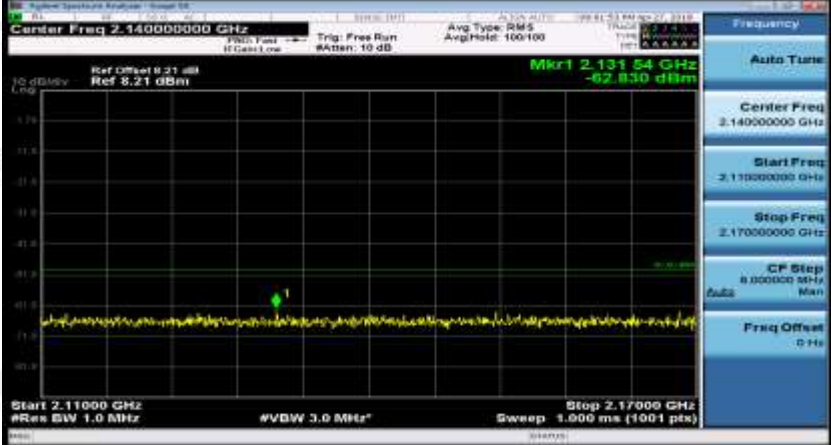
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

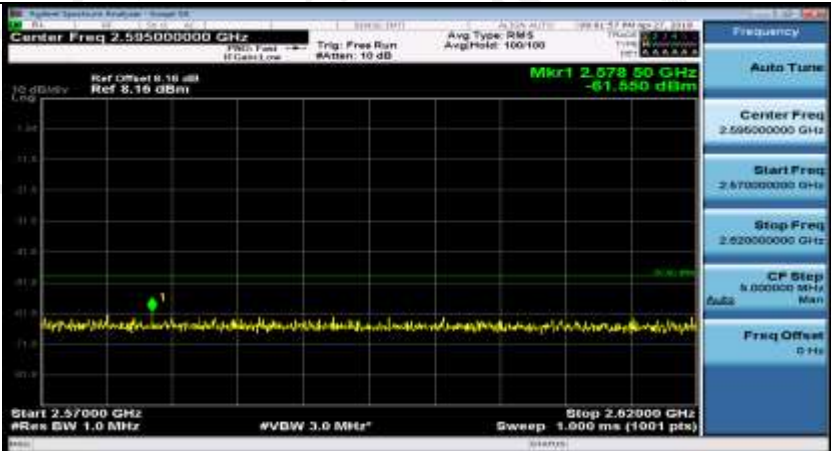

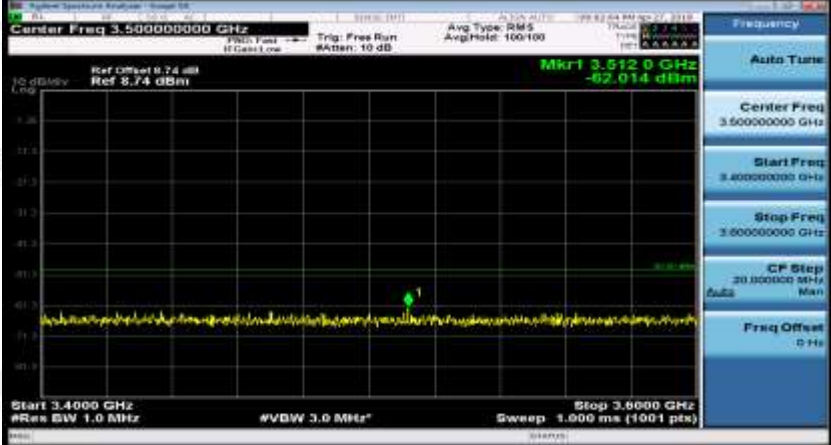
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Co-existence	
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Co-existence	

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Co-existence	
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Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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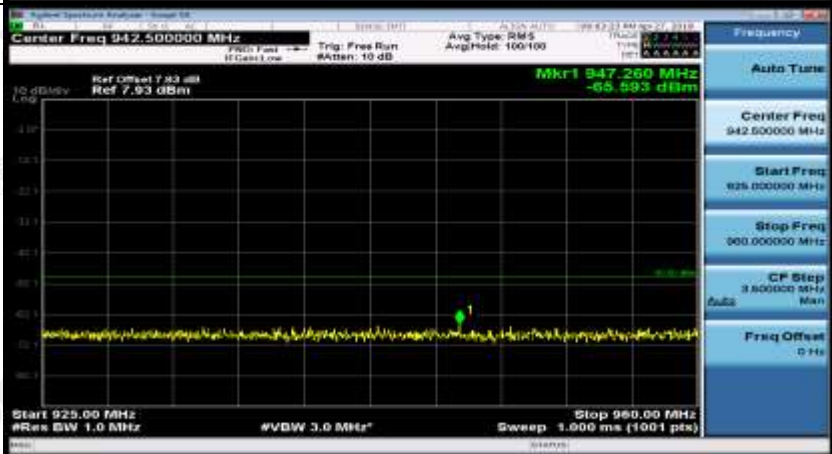
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	
General	

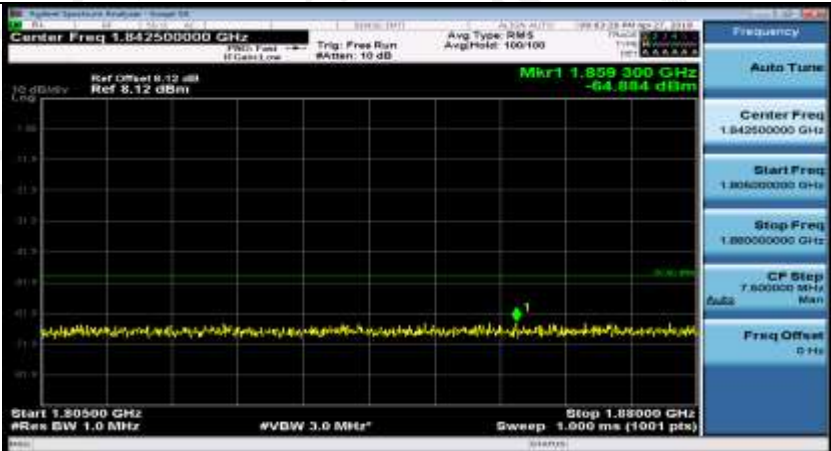
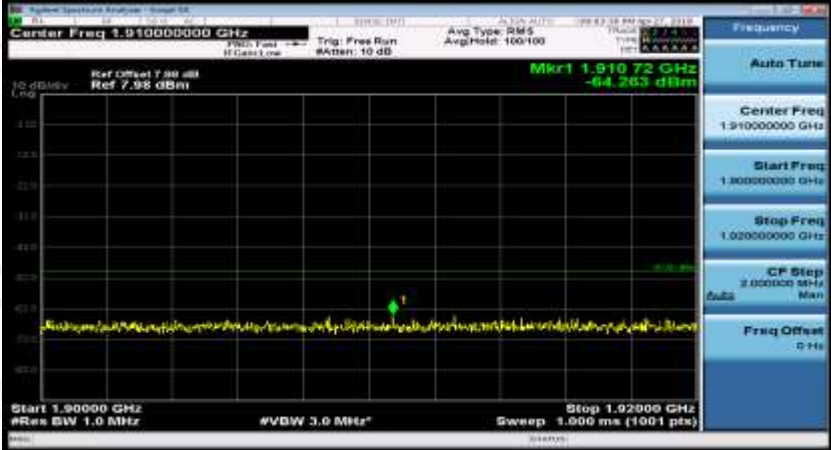
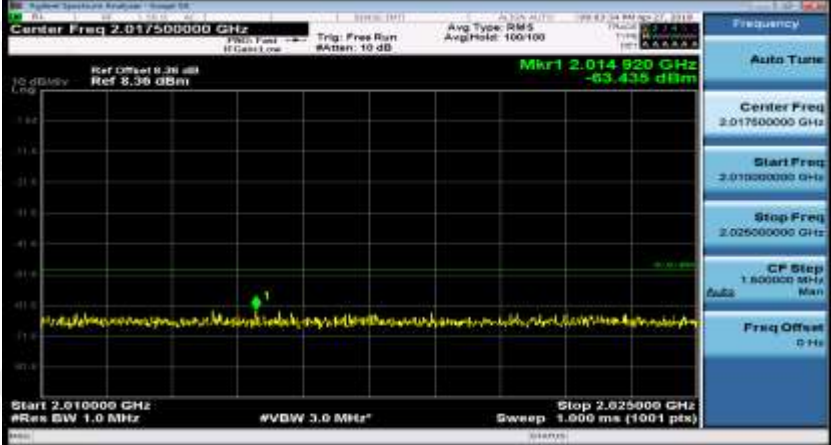
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General			
General			
General			


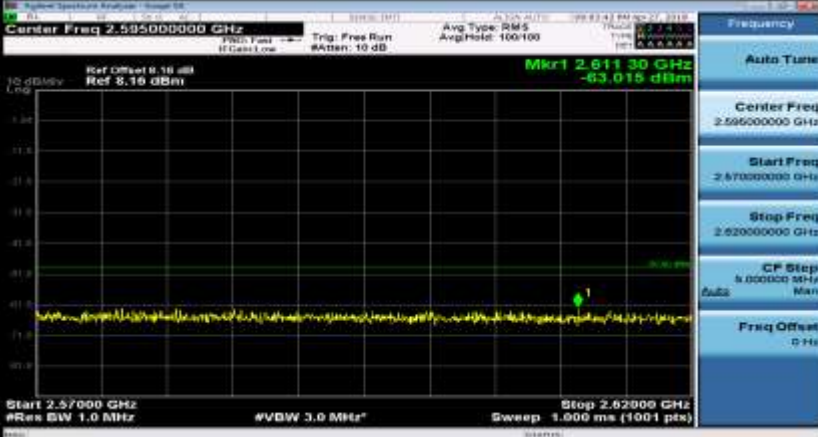
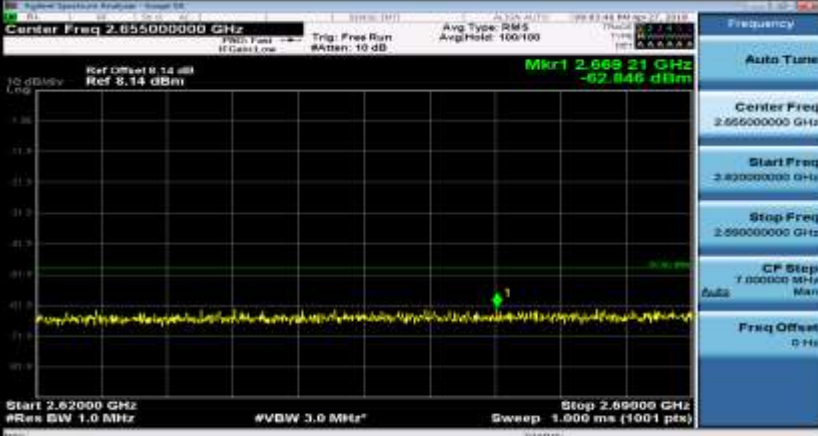
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General			
Co-existence			
Co-existence			

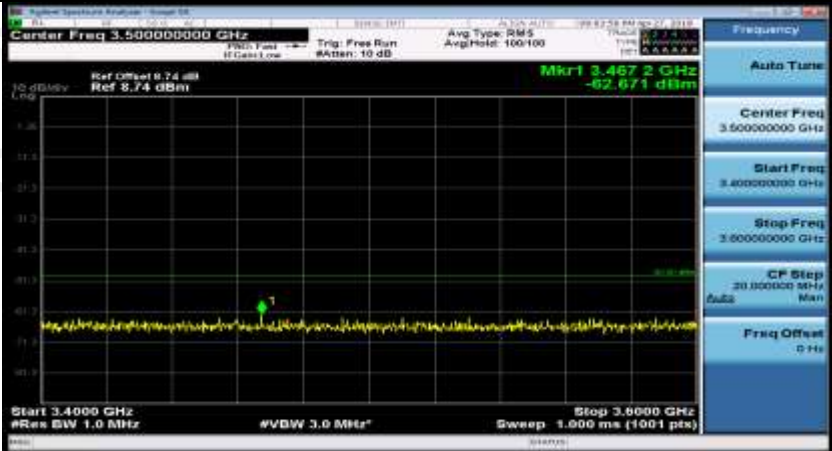
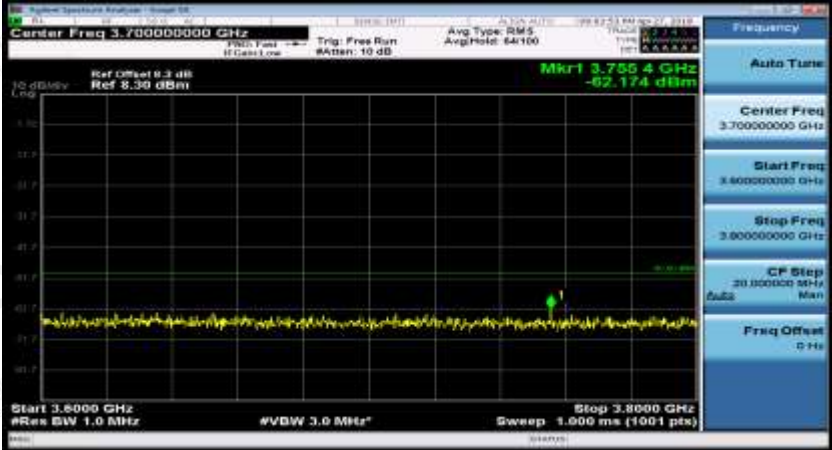
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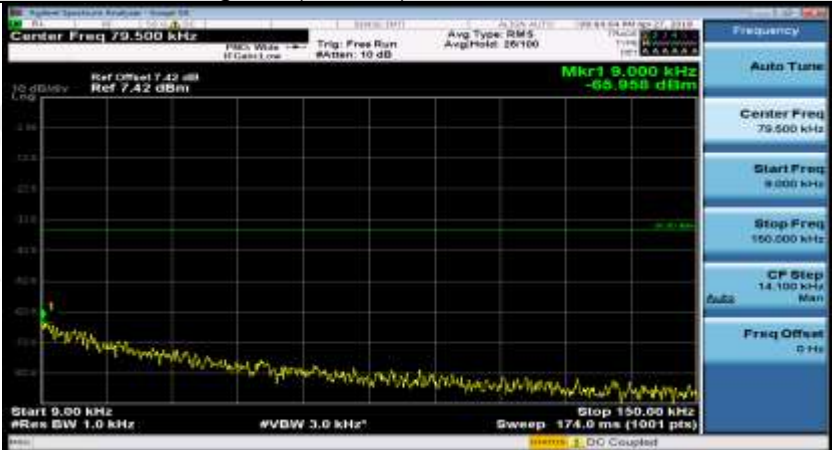
Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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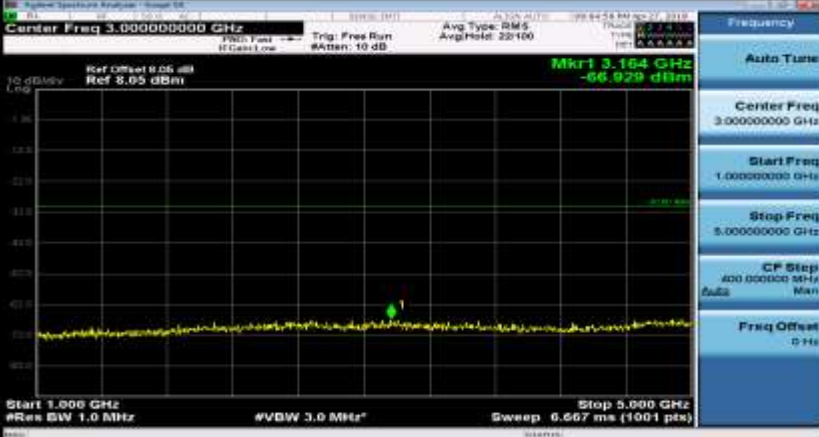

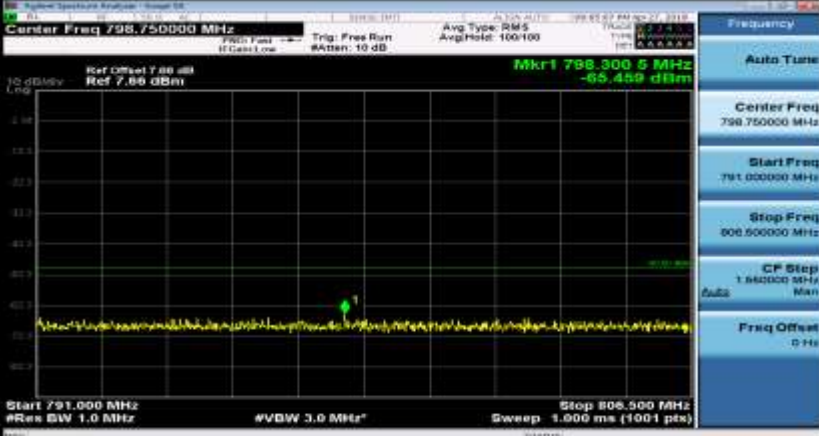
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

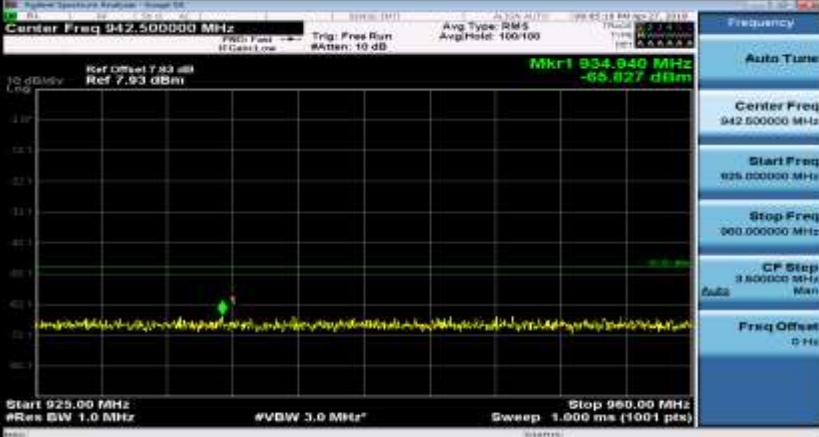
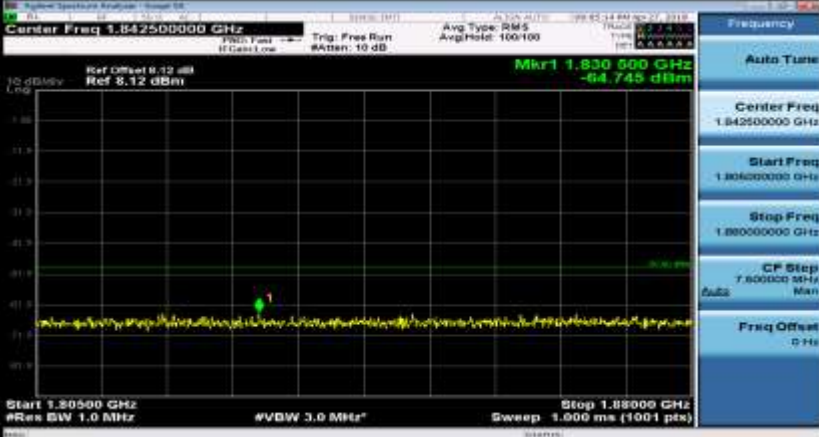

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General			
General			
General			

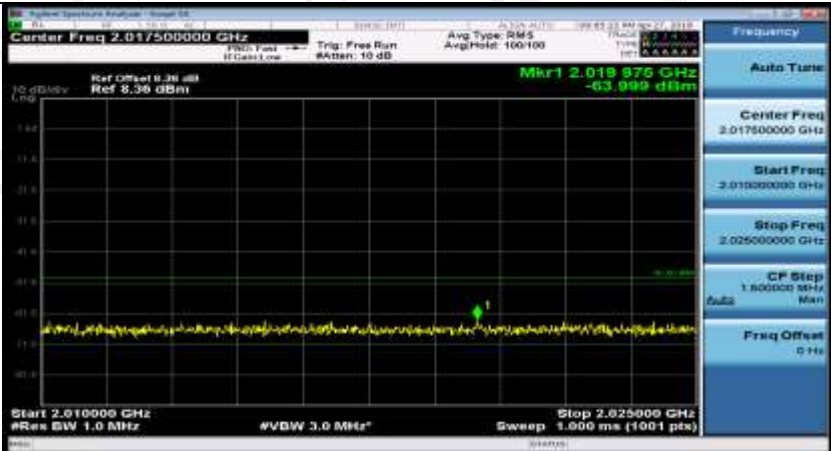
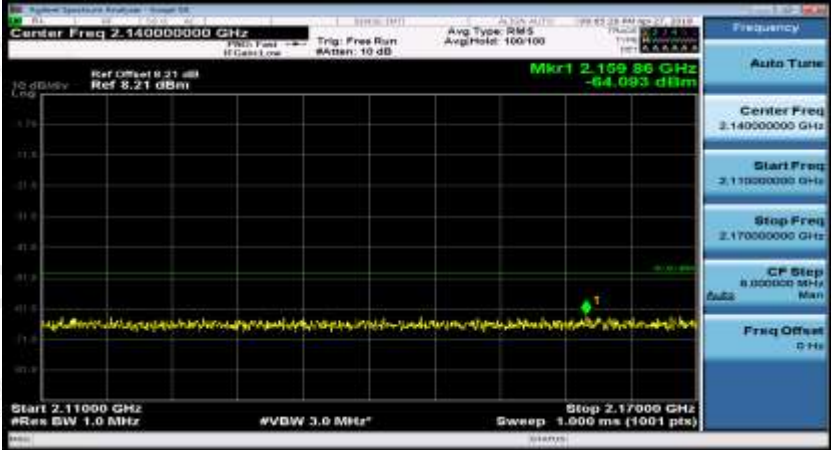
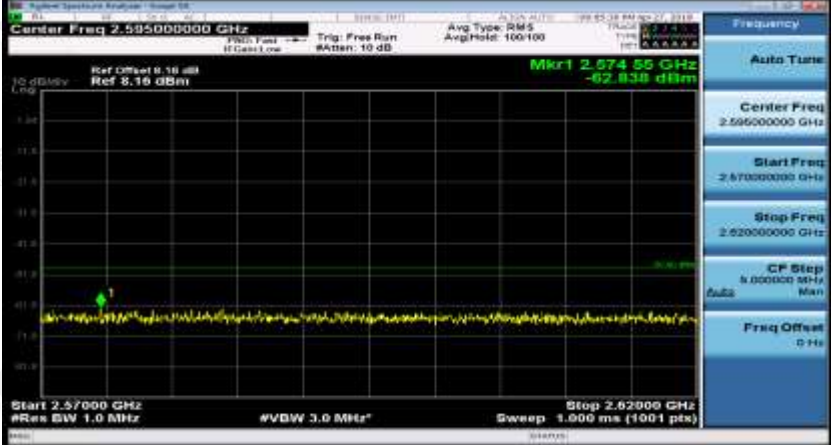
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
Co-existence			

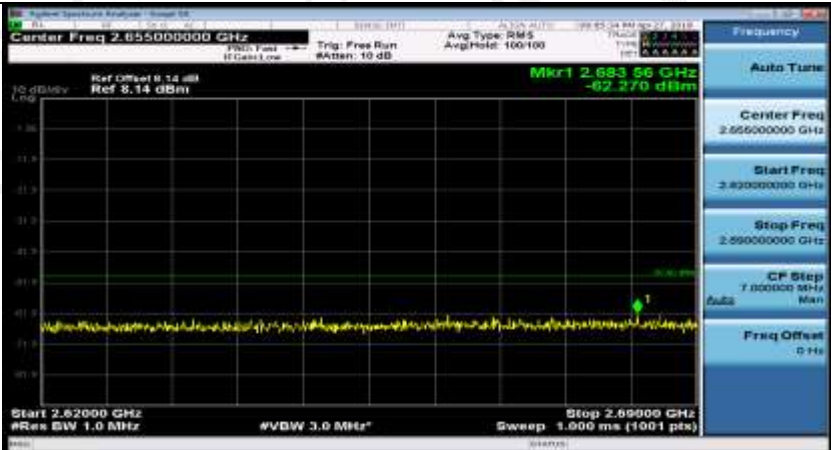
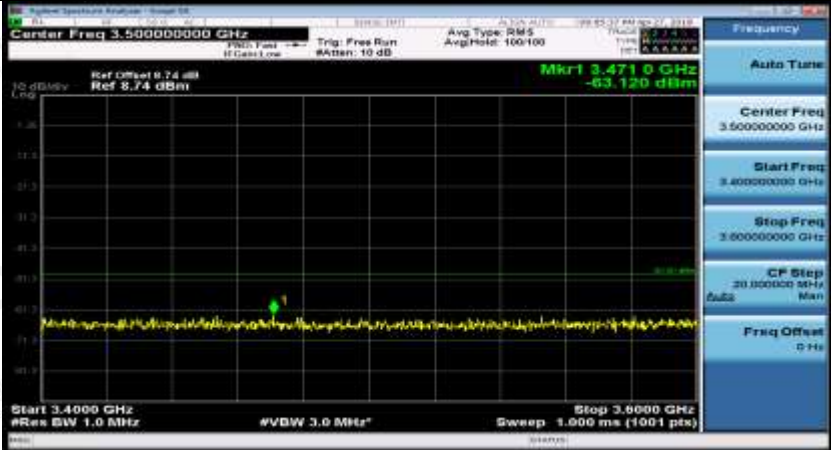
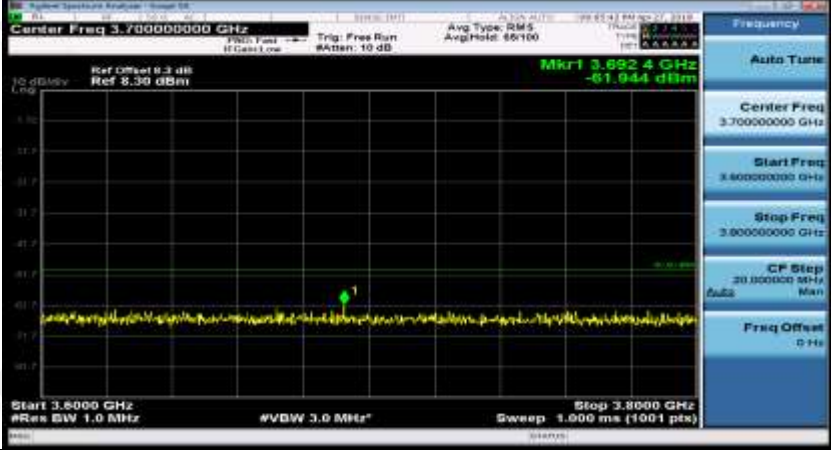
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Co-existence			
Co-existence			
Co-existence			

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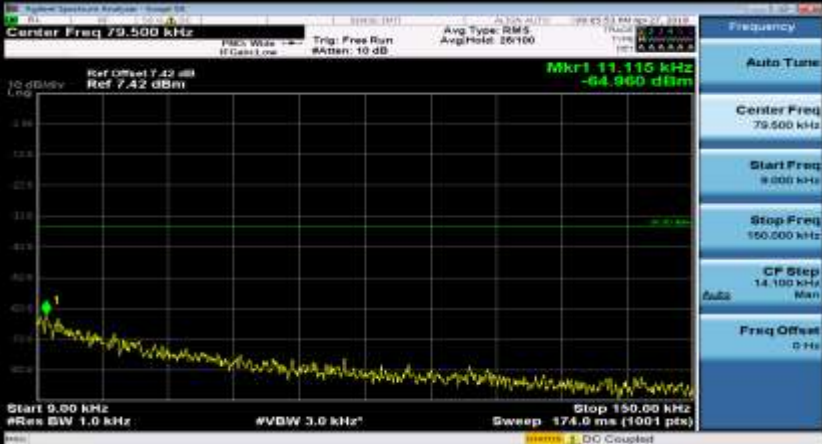
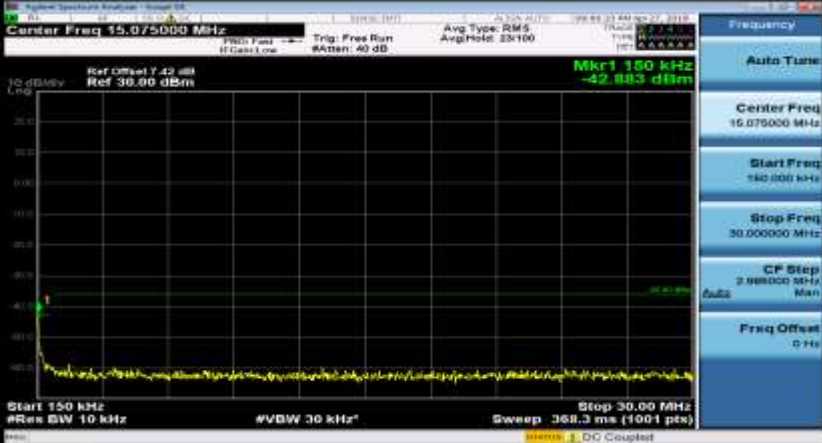
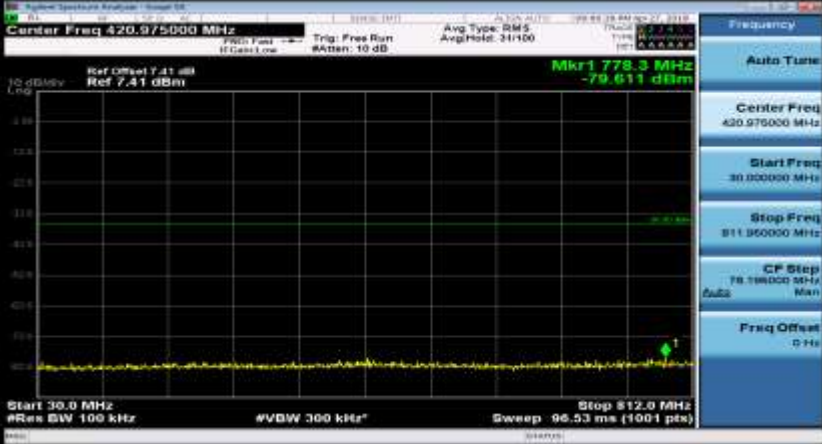
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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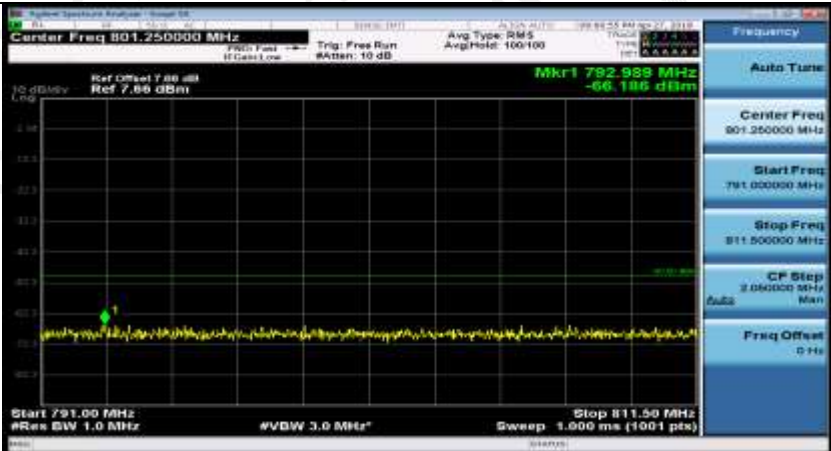
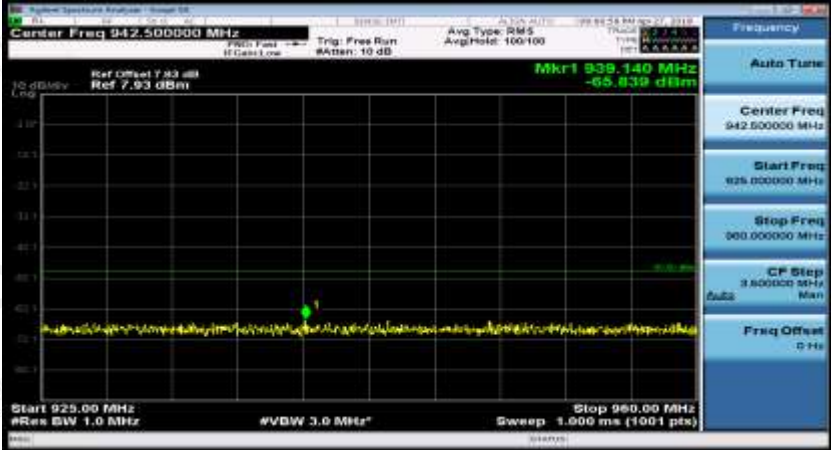
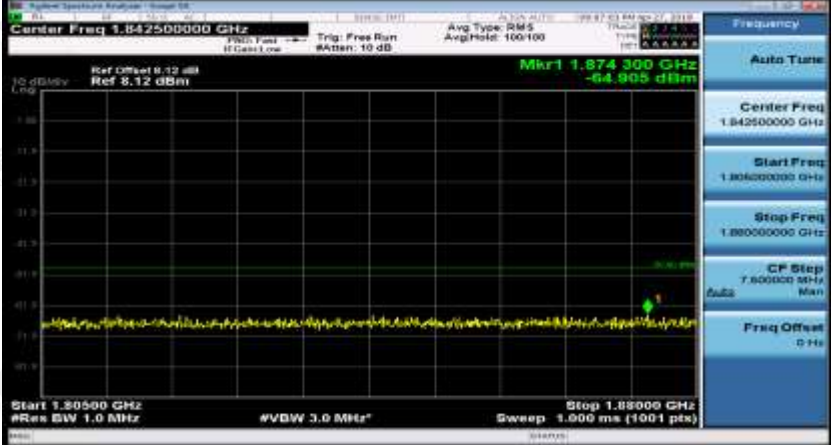
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General		
General		
General		

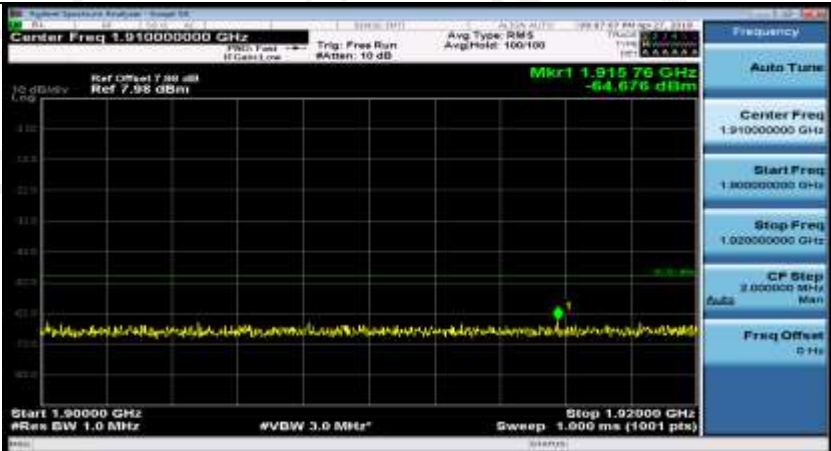
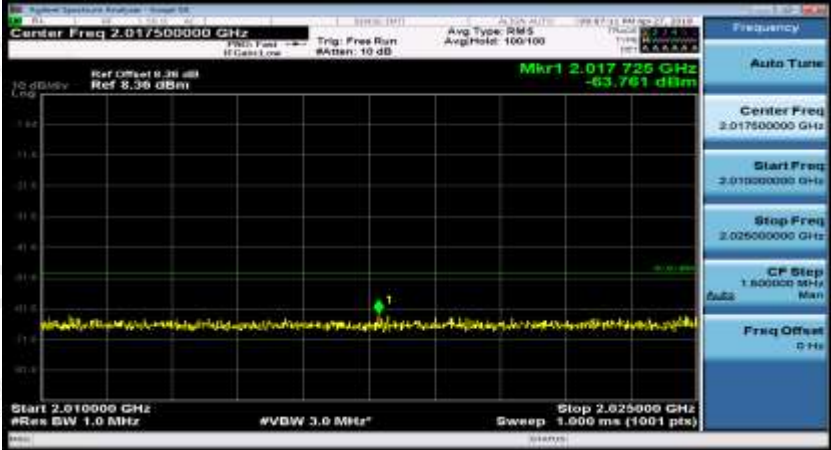
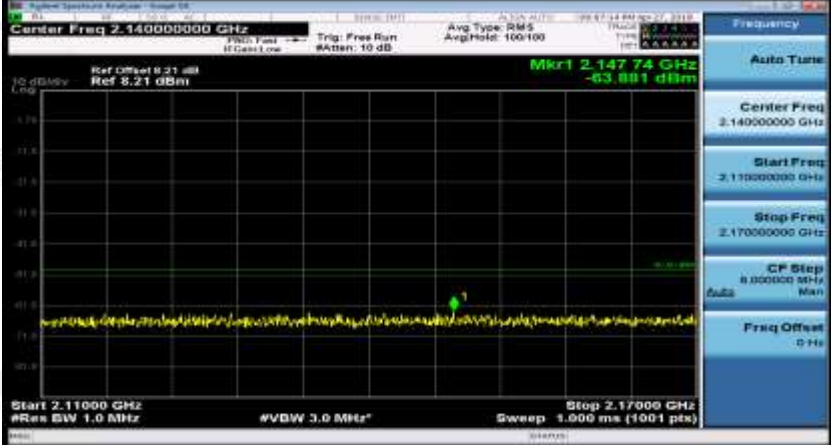
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General			
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General			

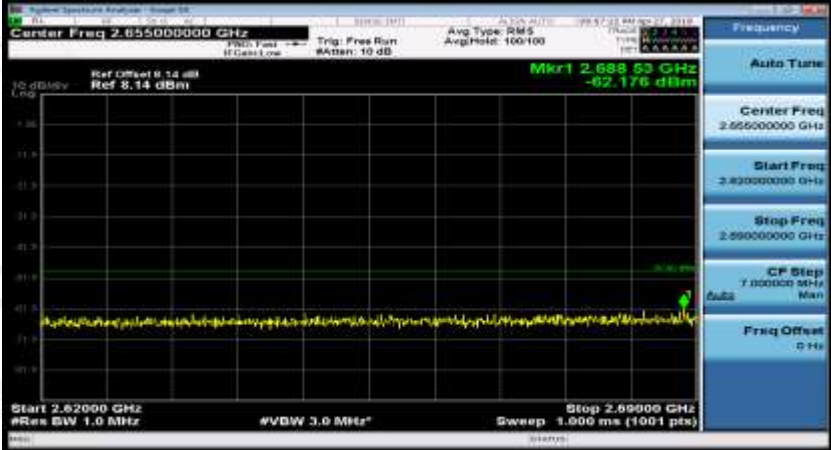
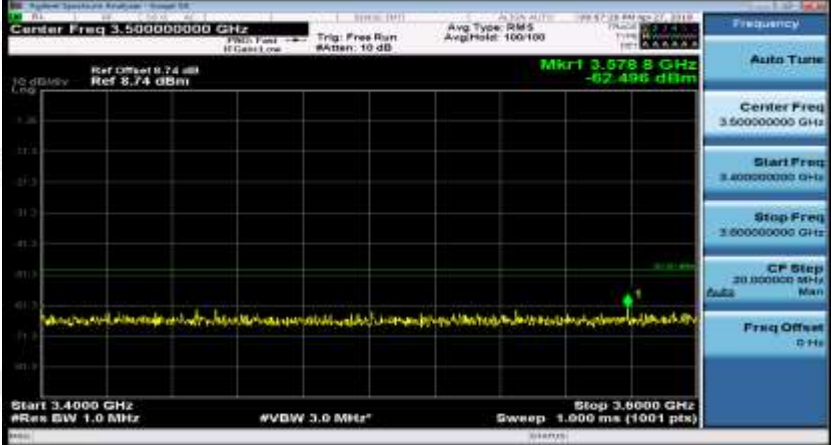
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
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Co-existence		
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Co-existence		

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Co-existence	
Additional	NA


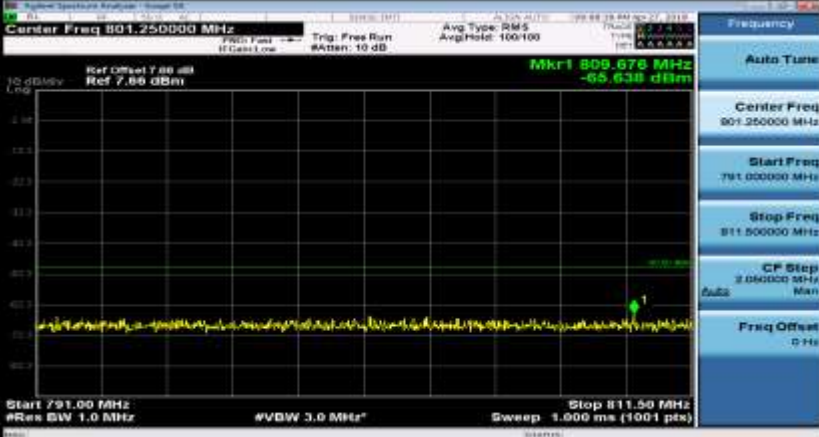
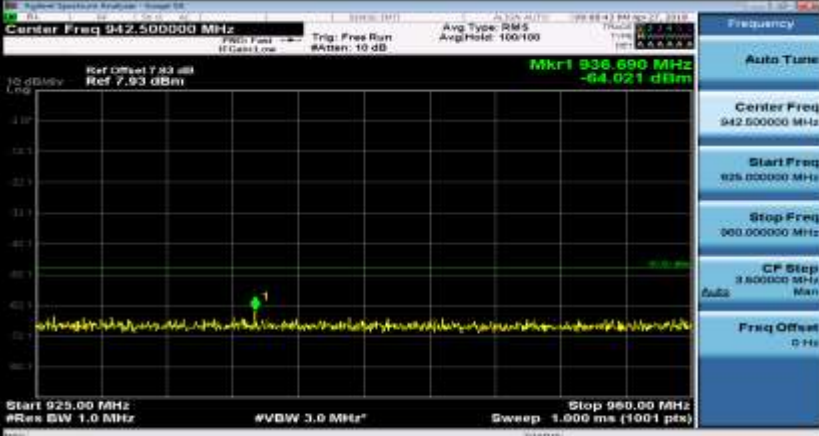
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max

General	
General	

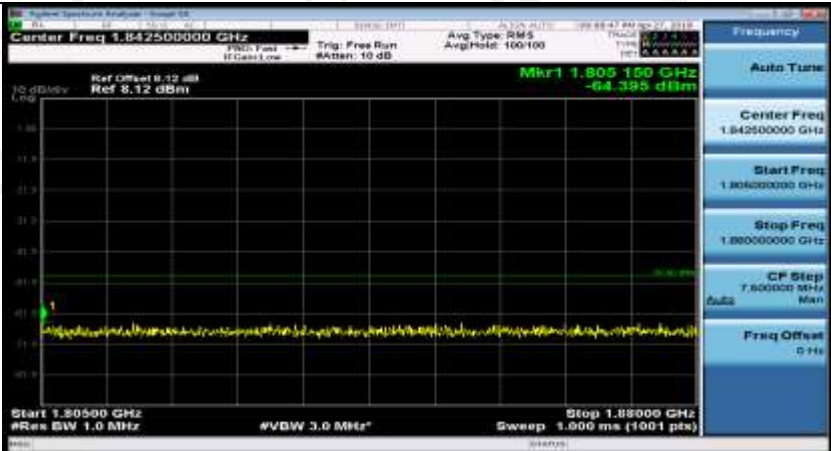
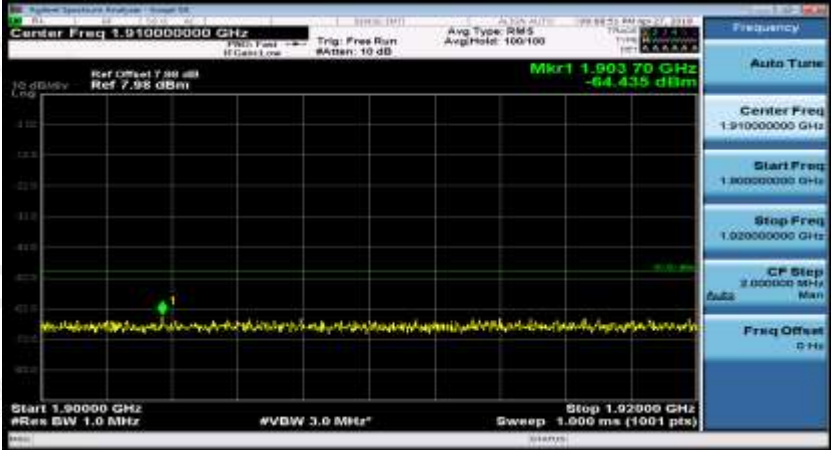
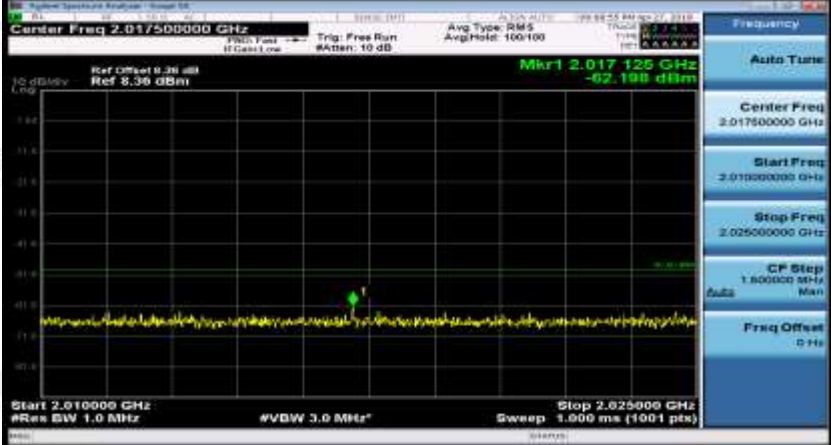
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General			
General			
General			

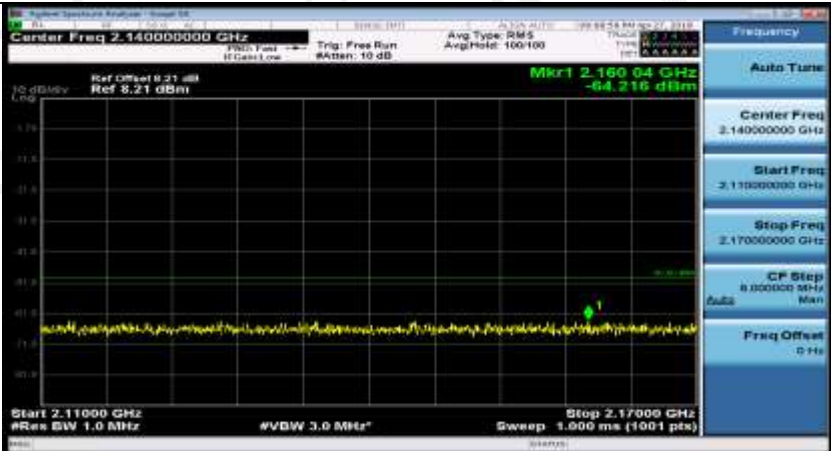
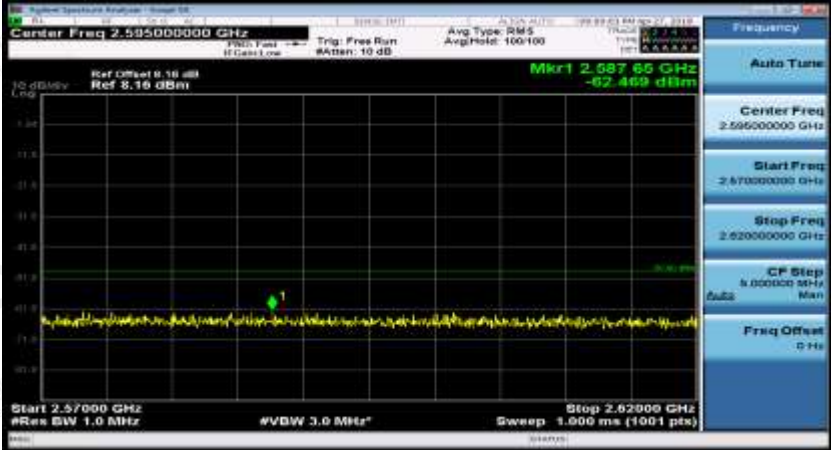
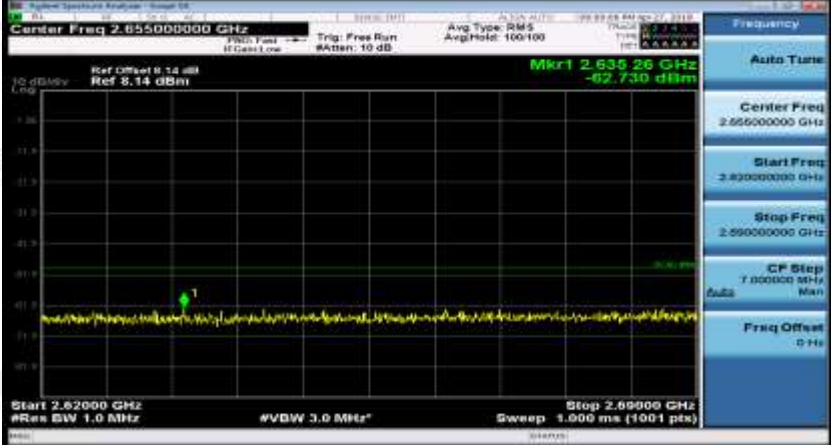
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General			
Co-existence			
Co-existence			

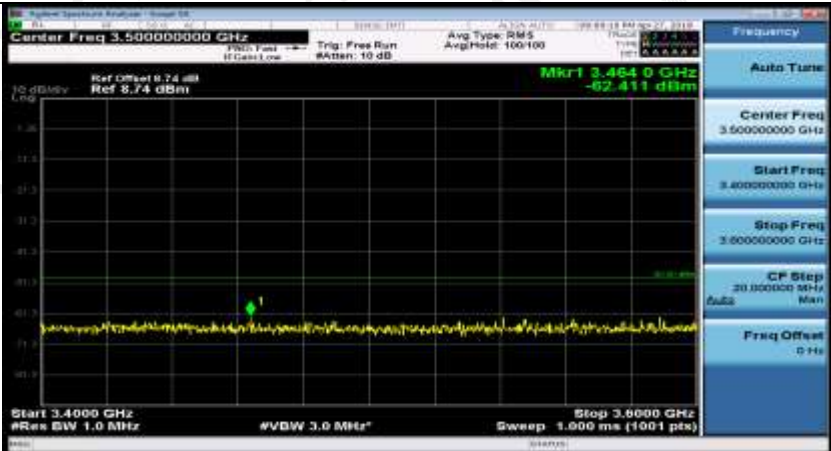
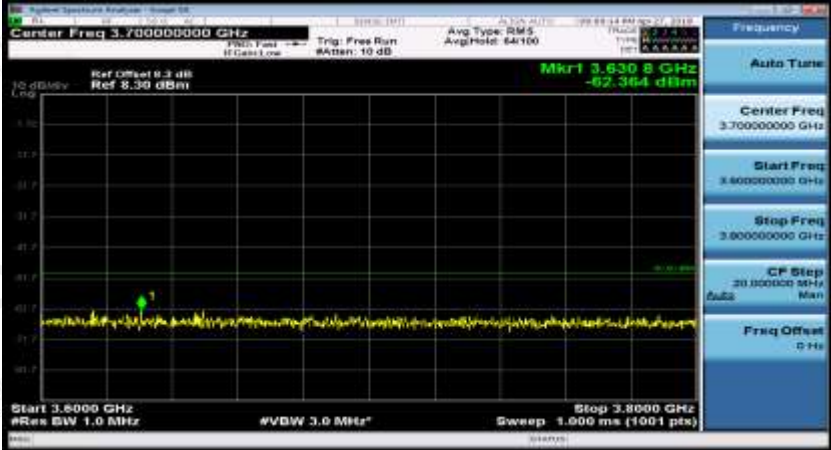
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Co-existence	
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Co-existence	

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Co-existence		
Co-existence		
Co-existence		

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Co-existence	
Co-existence	
Additional	NA


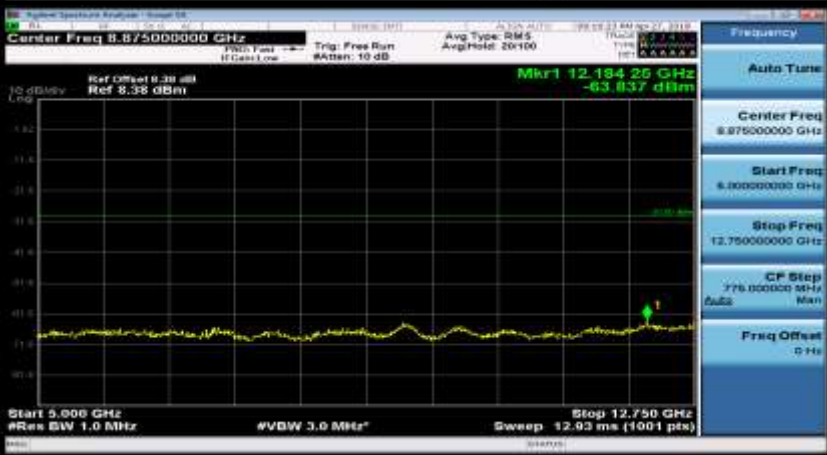
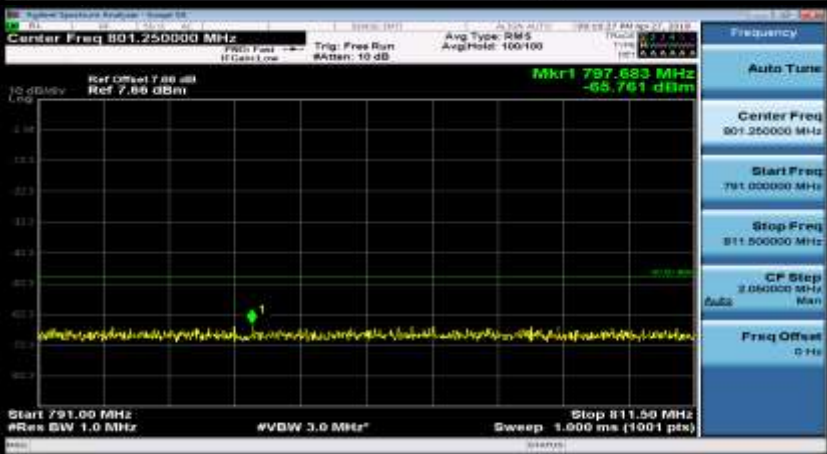
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullIRB#0

General	
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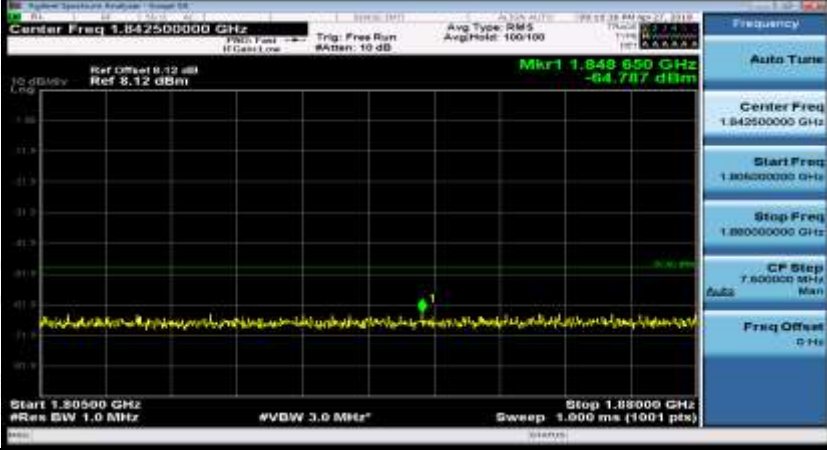
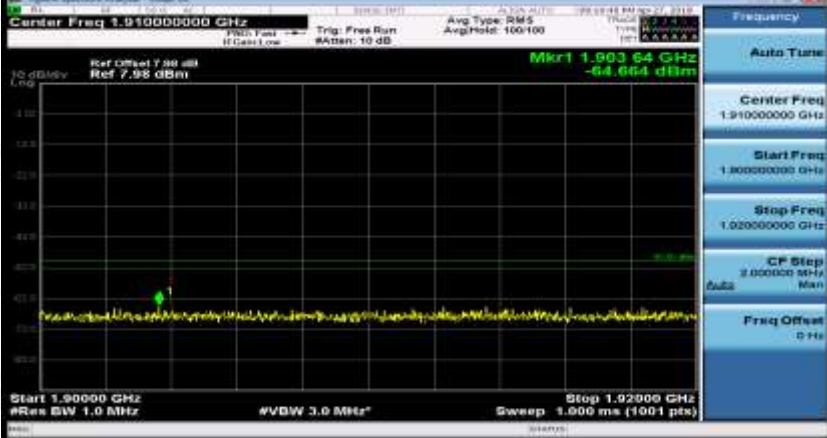
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General		
General		
General		

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General		
General		
Co-existence		

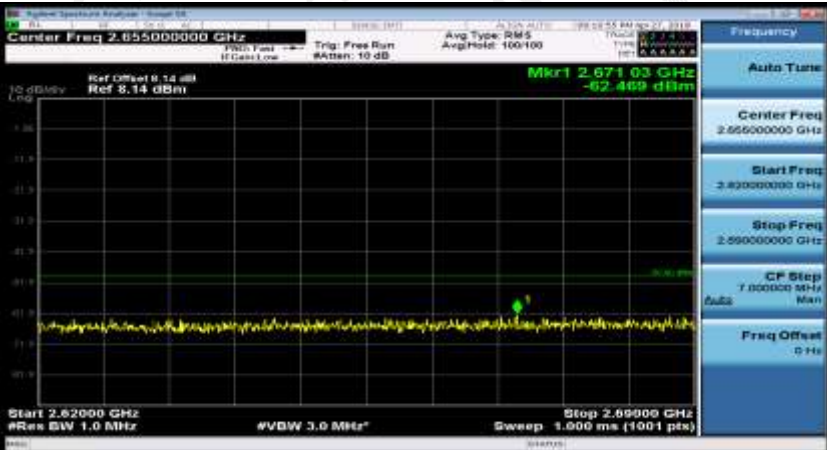


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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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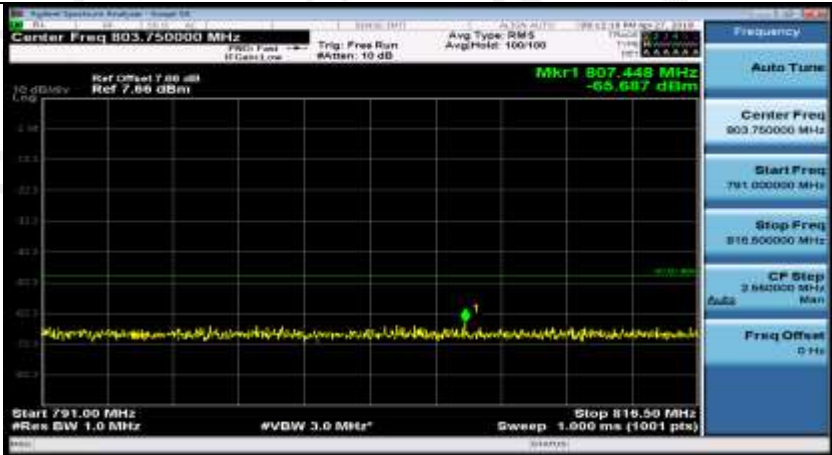
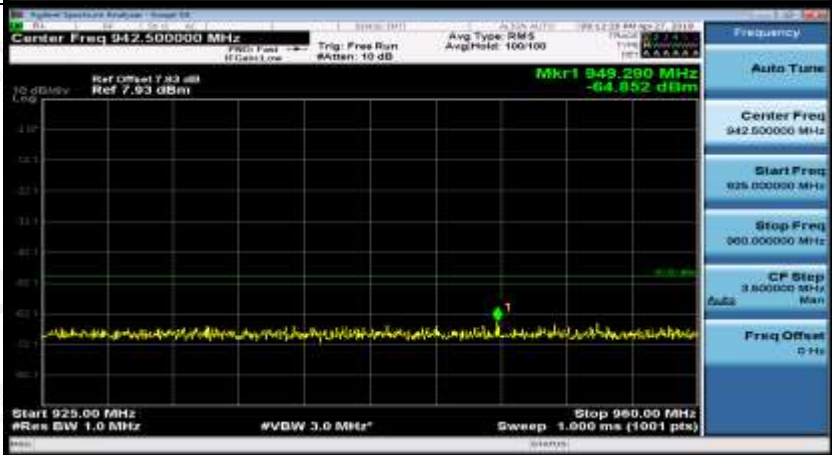
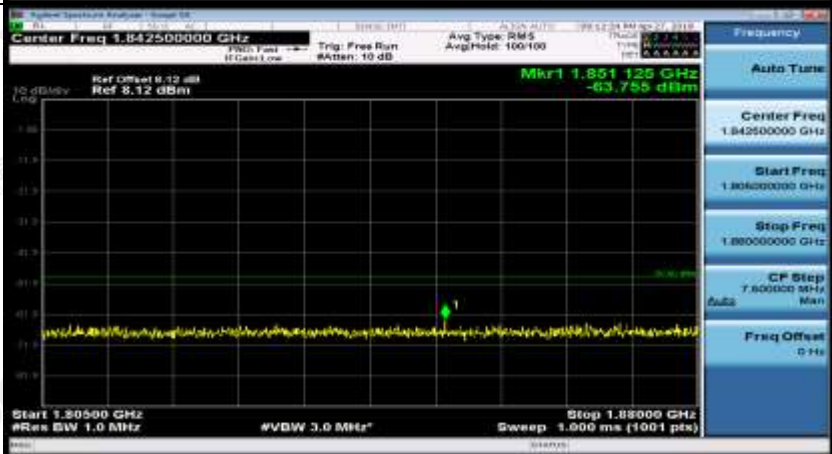
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General		
General		
General		

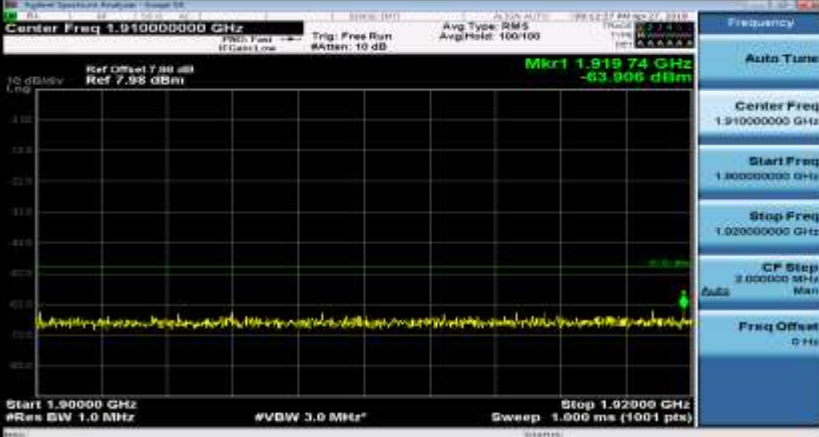
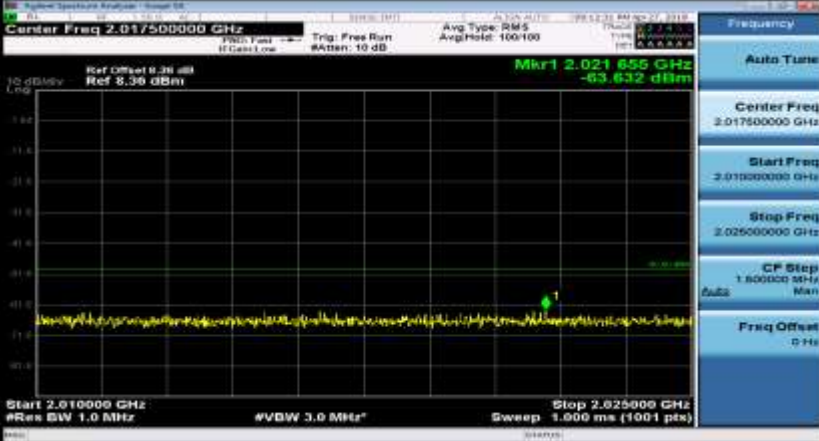
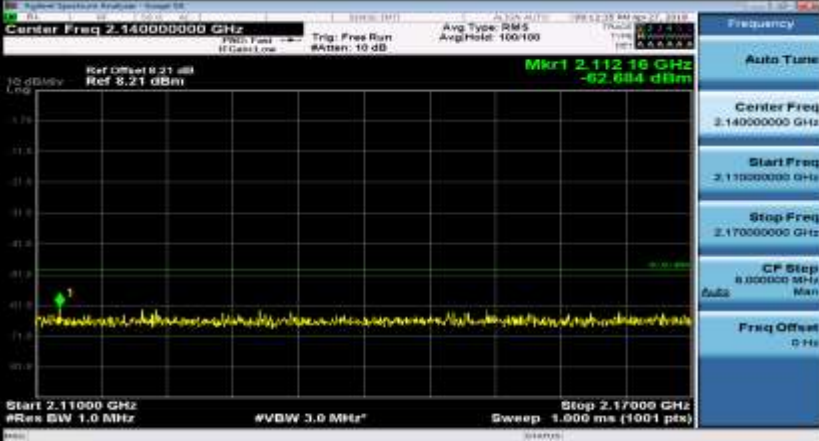
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

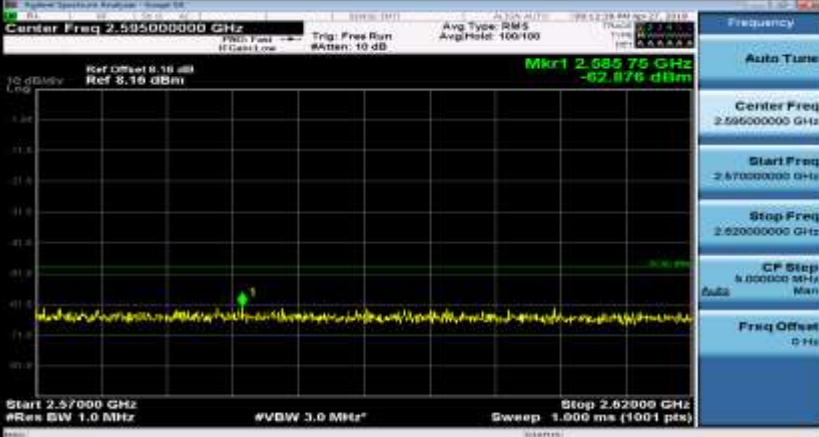
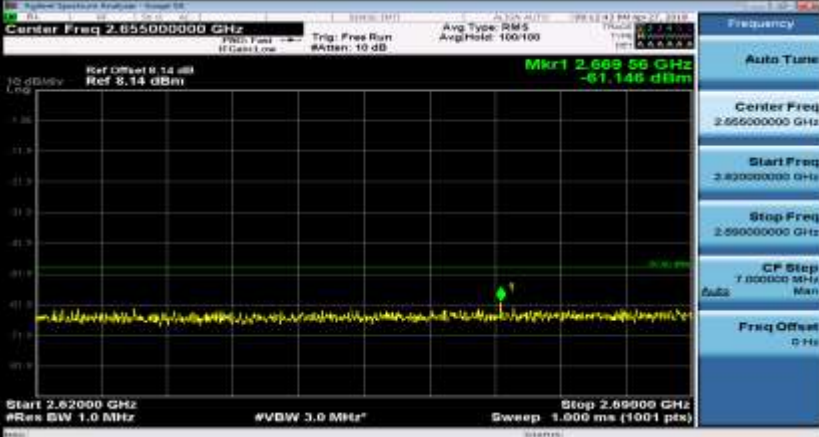
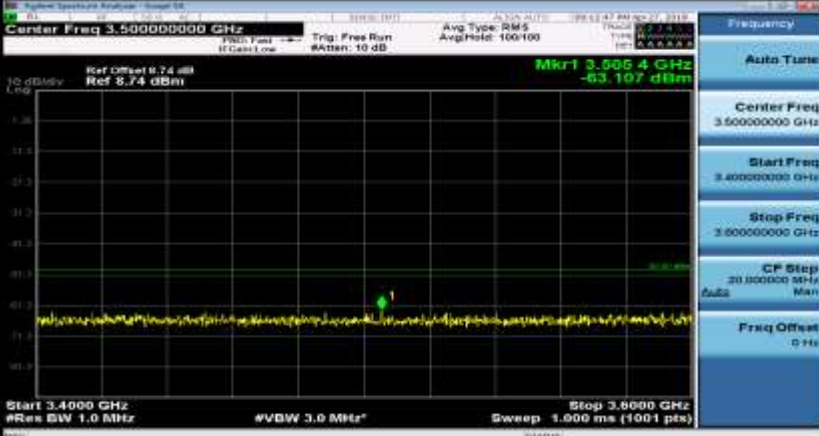
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Co-existence			
Co-existence			
Co-existence			

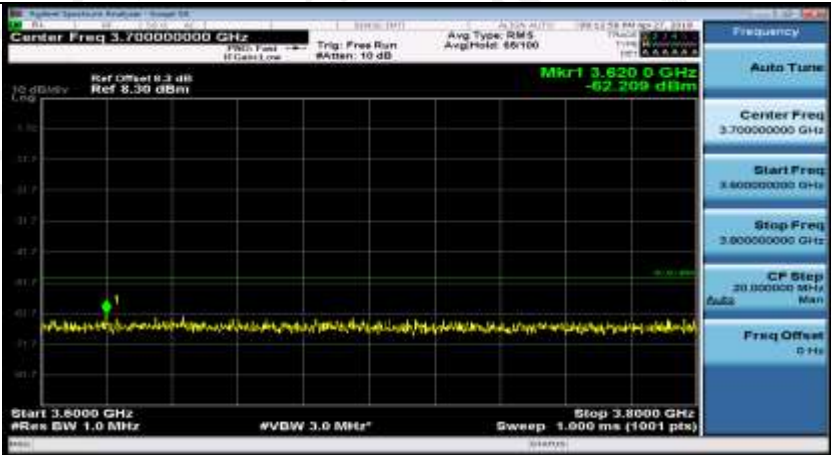
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence			
Co-existence			
Co-existence			

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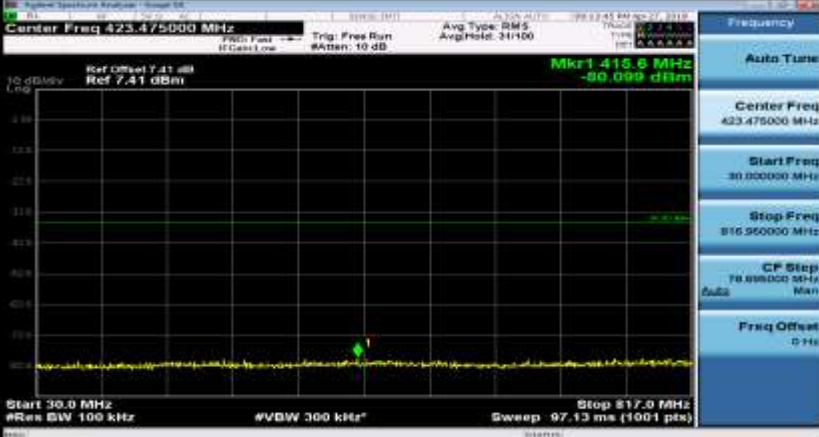

Co-existence			
Co-existence			
Co-existence			

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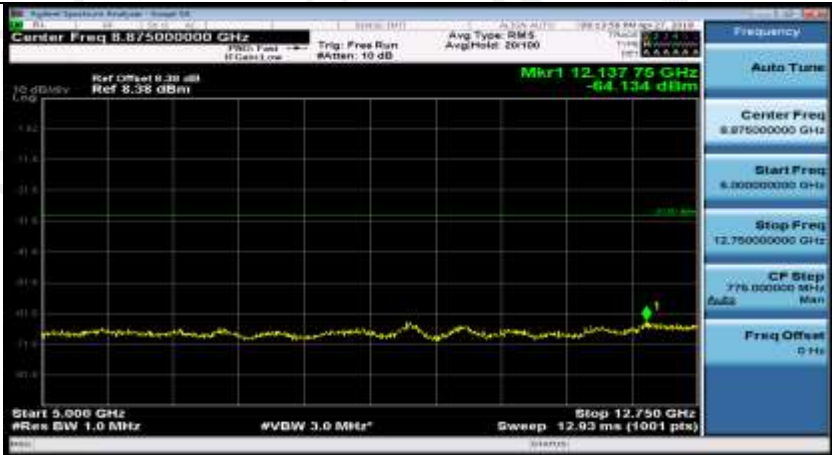
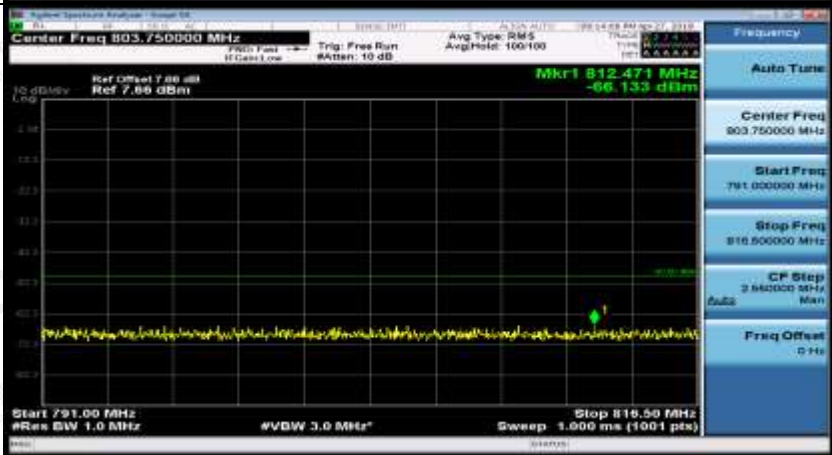
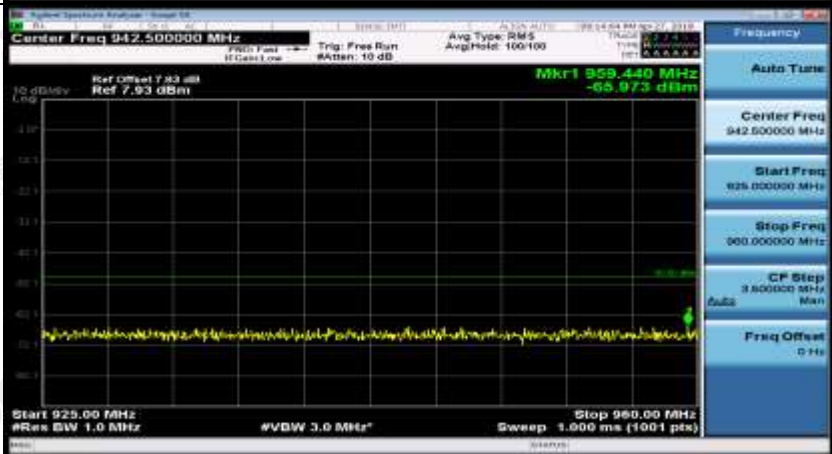
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	
General	

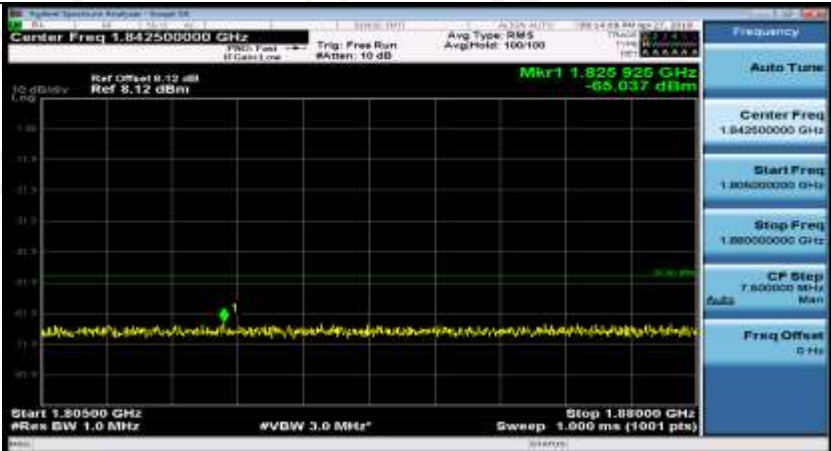
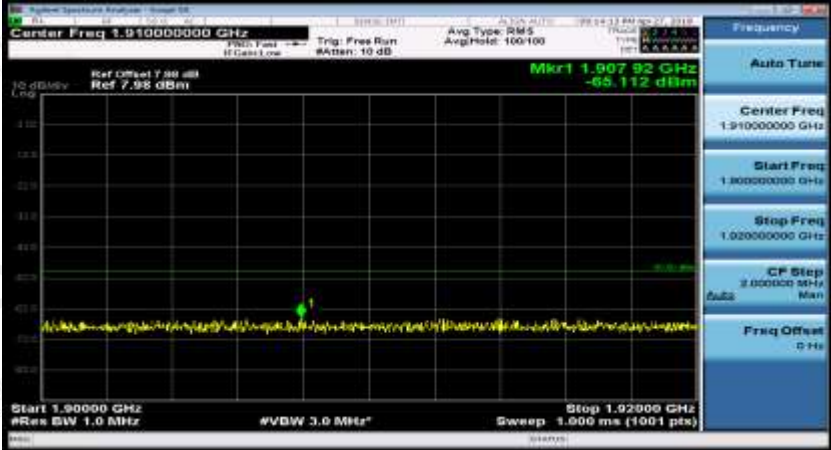
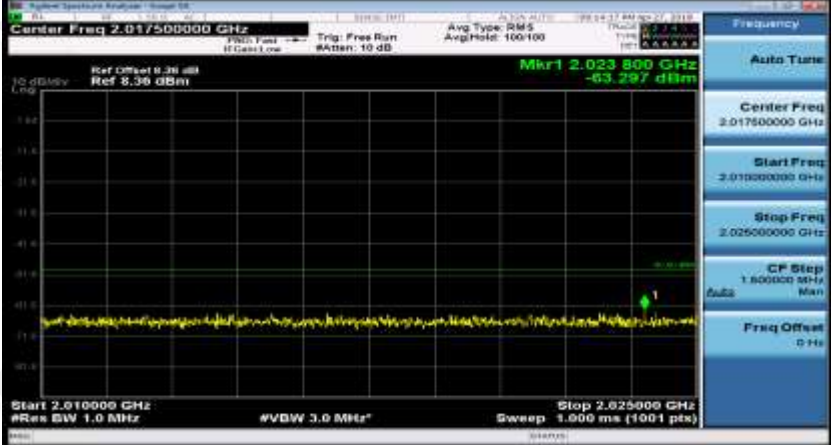
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

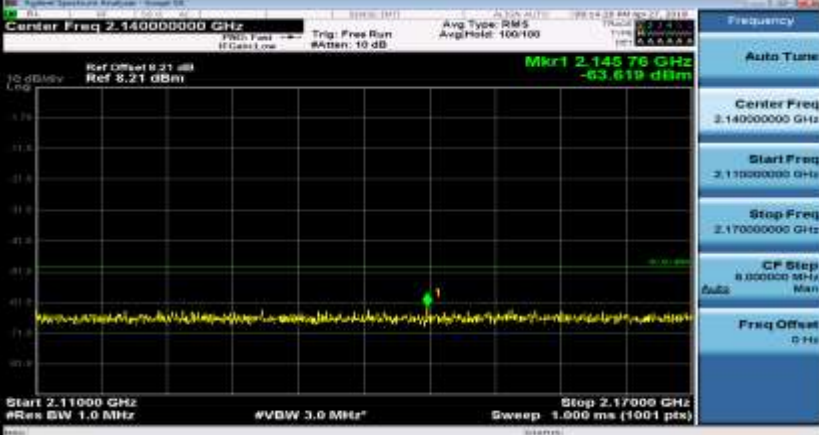
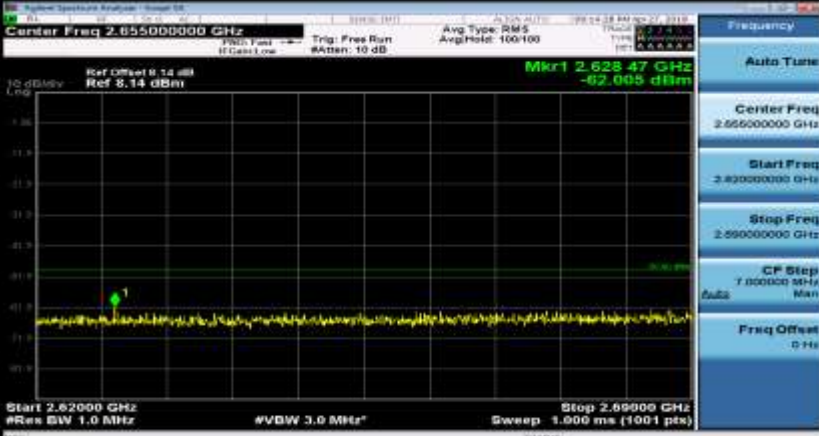
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General			
Co-existence			
Co-existence			

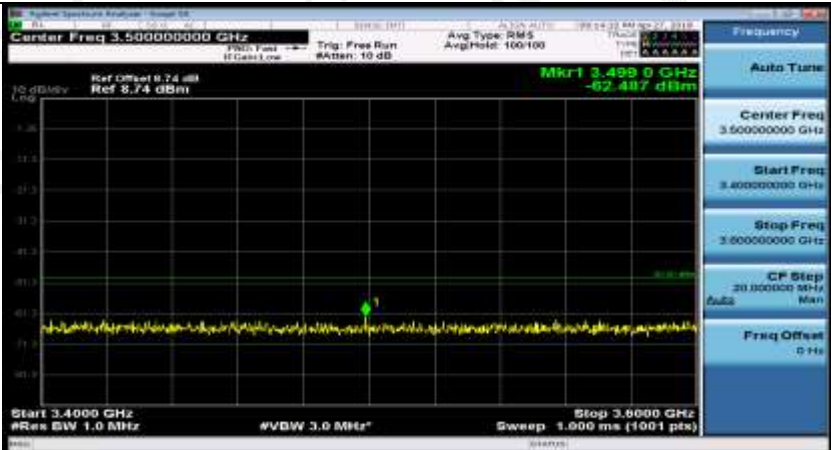
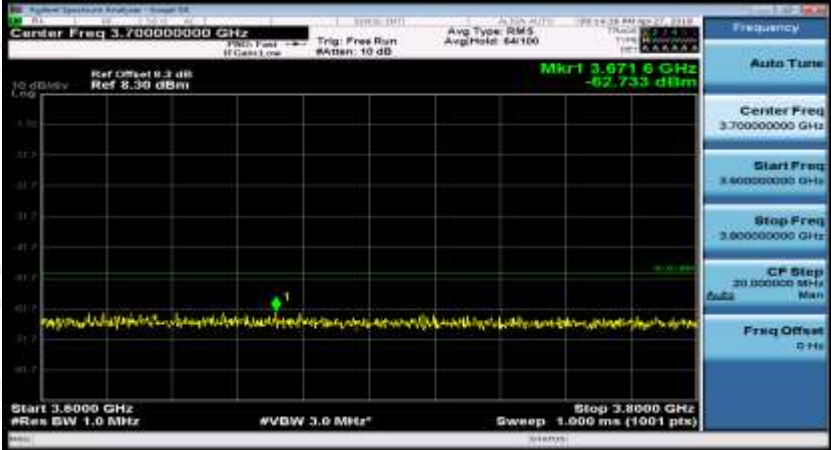
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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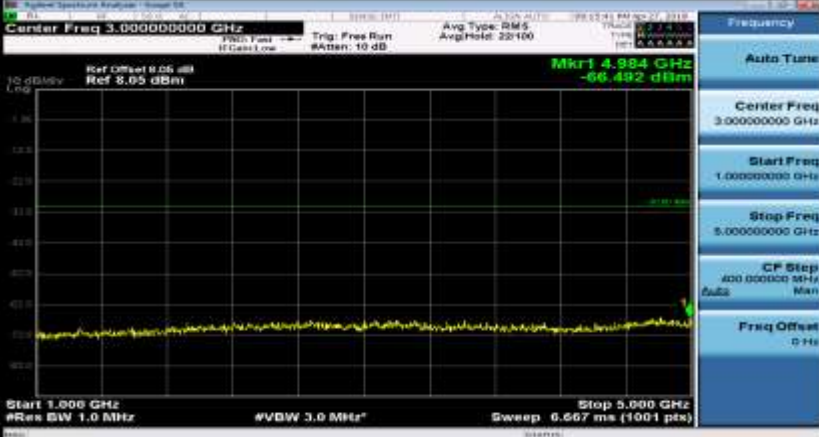

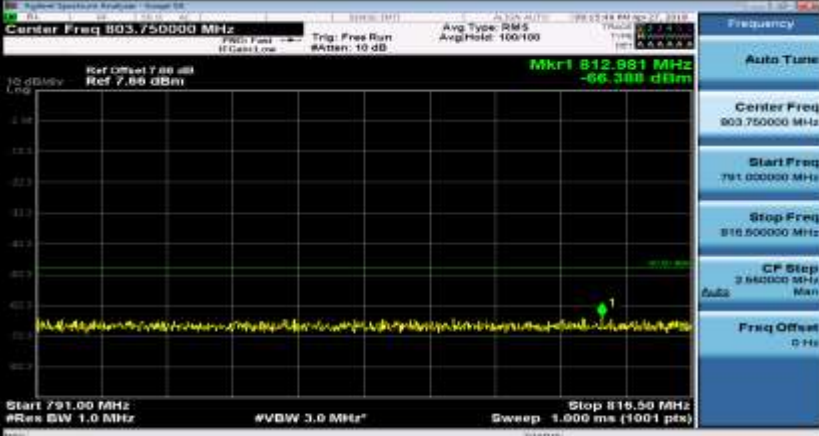
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	

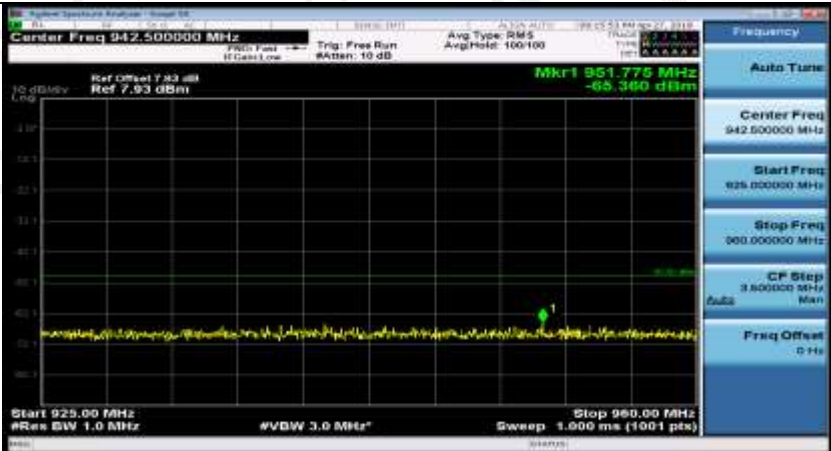
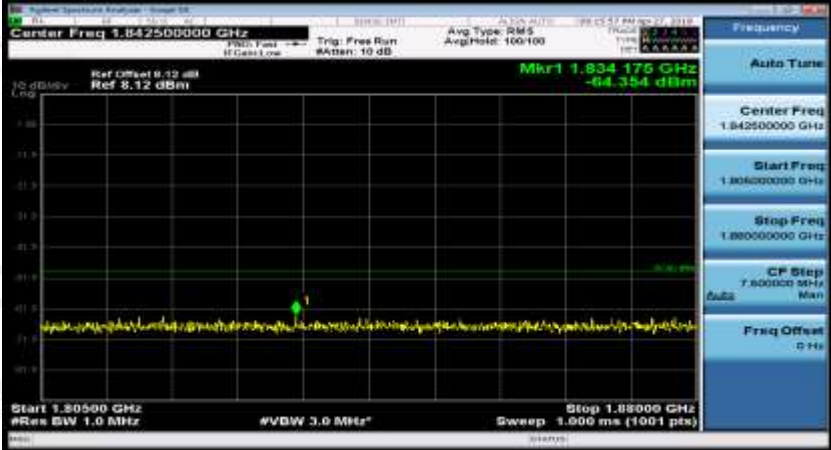
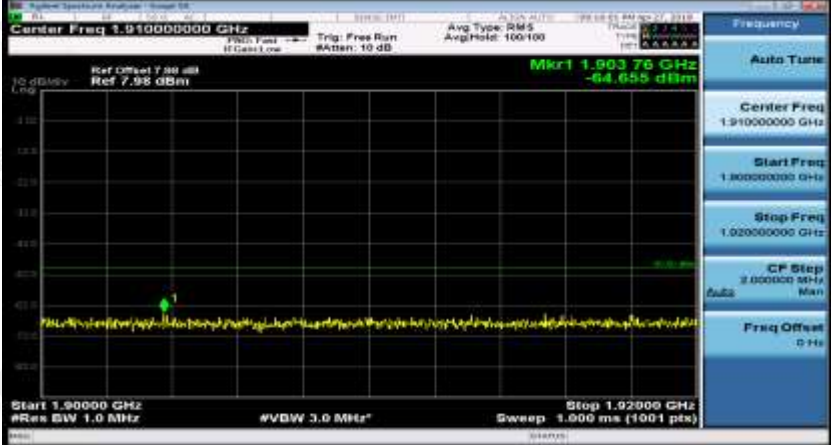
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General			
General			
General			

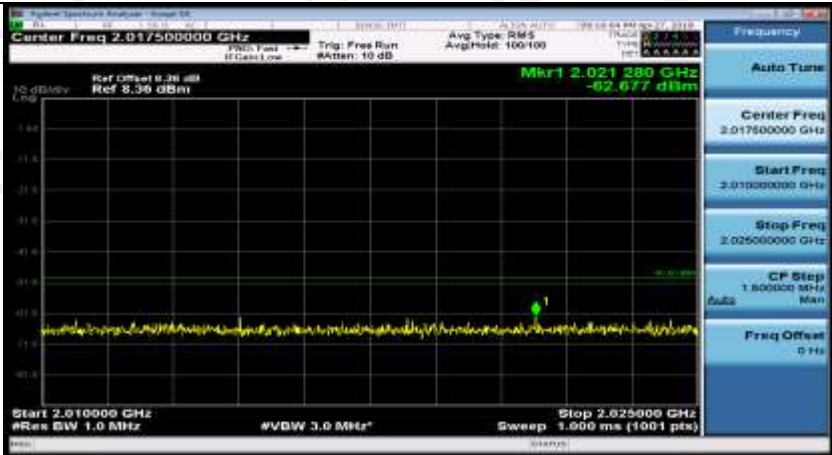

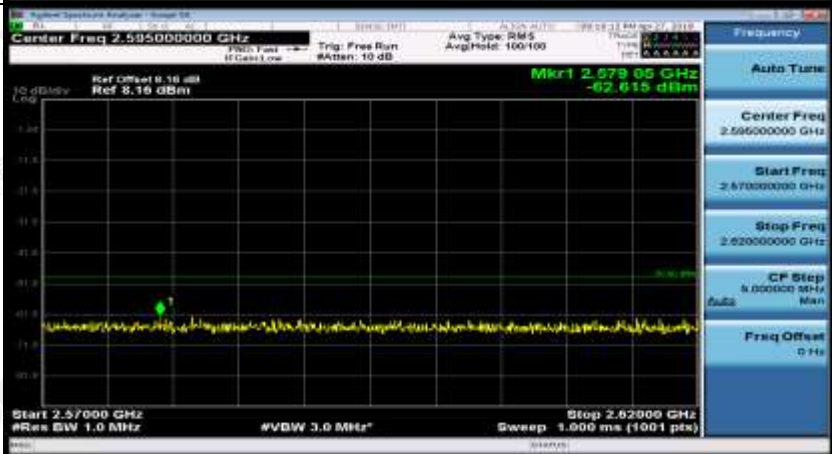
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
Co-existence			

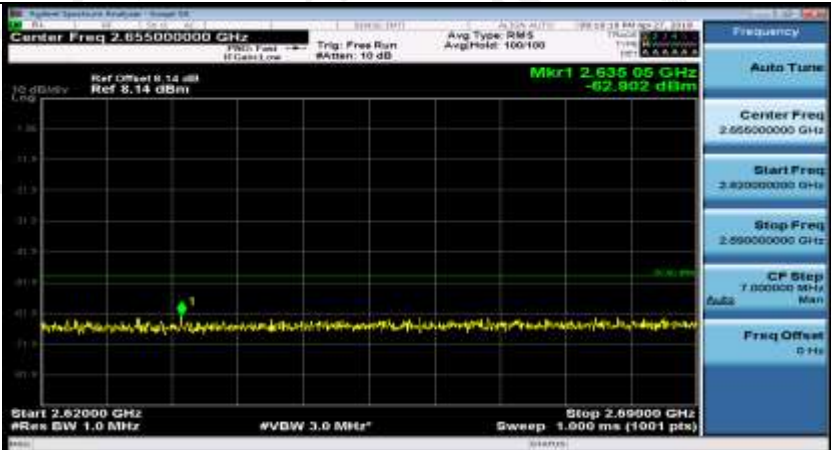
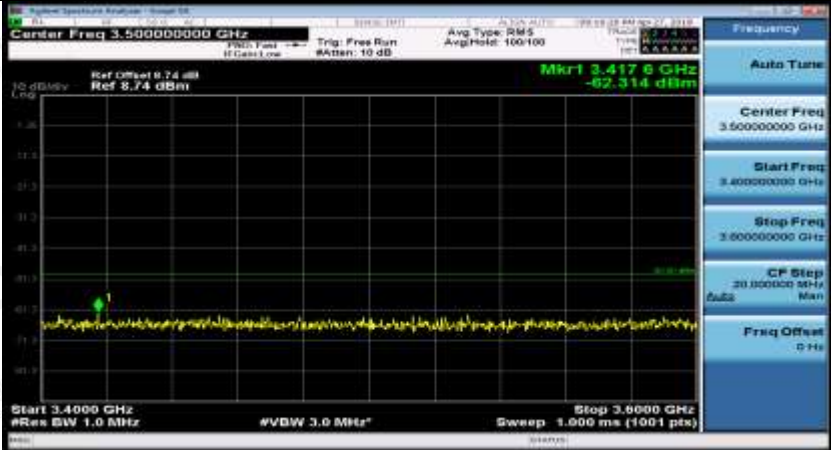
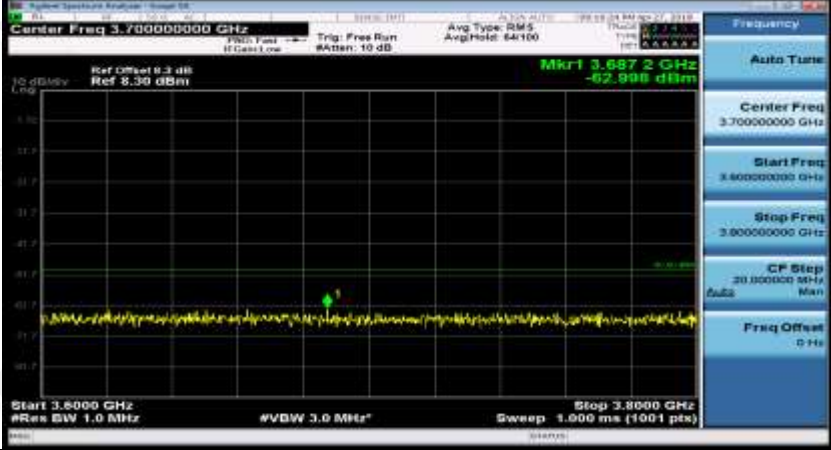
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Co-existence	
Co-existence	
Co-existence	

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Co-existence			
Co-existence			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

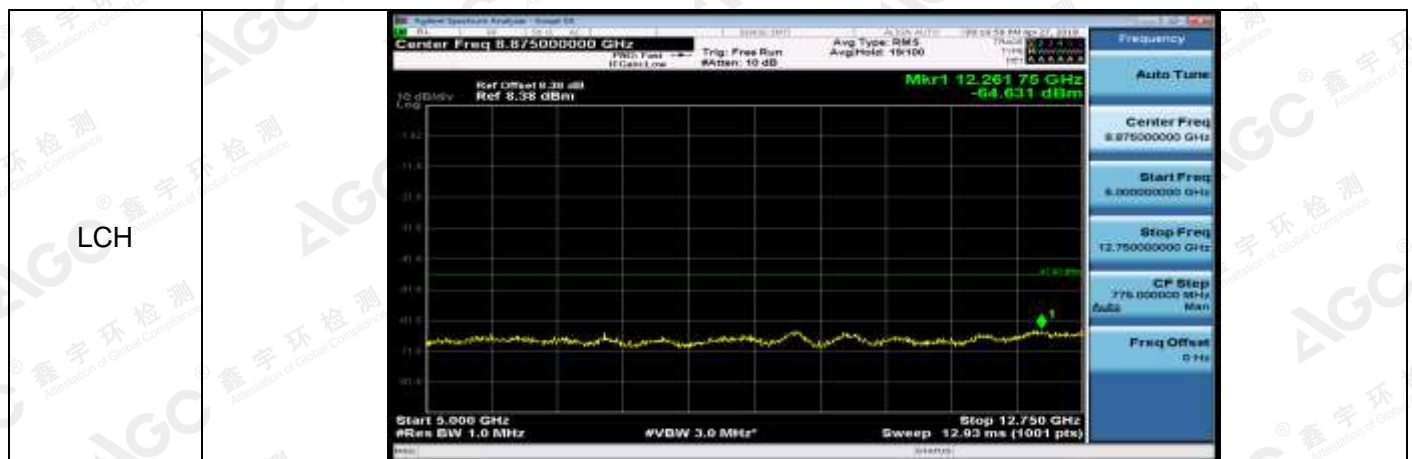
Test Graphs

NTNV

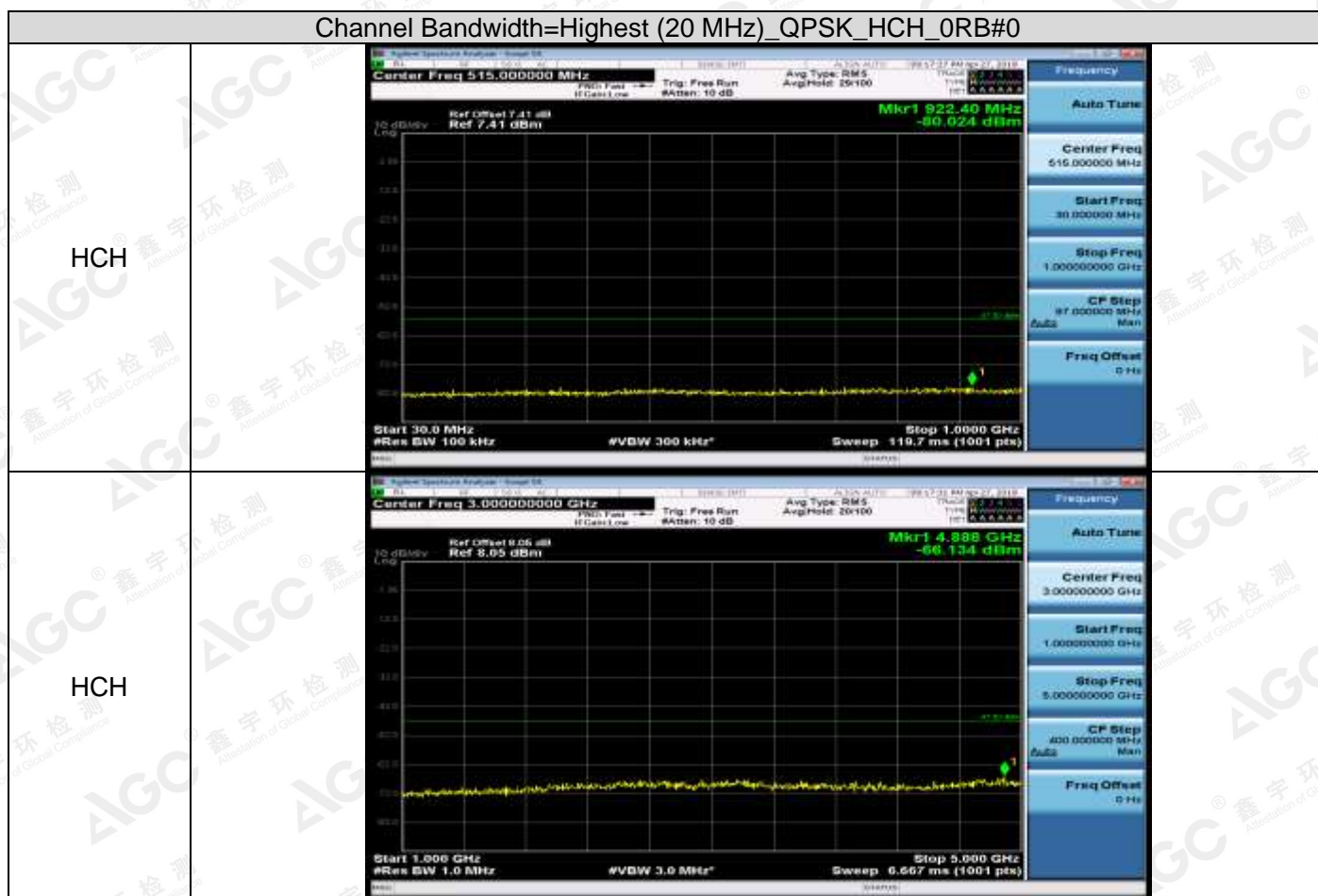
Channel Bandwidth=Highest



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7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment	NC				
Test Frequencies	Low range for FInterferer below FDL_low High range for FInterferer above FDL_high				
Test Channel Bandwidths	Lowest, 5MHz, Highest 20MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment		NC	
Test Frequencies		Mid range	
Test Channel Bandwidths		Lowest, 5MHz, Highest 20MHz	
Test Parameters for Channel Bandwidths			
	Downlink Configuration	Uplink Configuration	

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Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 20			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
Verdict	Pass					

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11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

LT,VL

	Test Band			Band 20			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
Test Parameters for Channel Bandwidths							
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TL,VL	5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
	Verdict	Pass					

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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

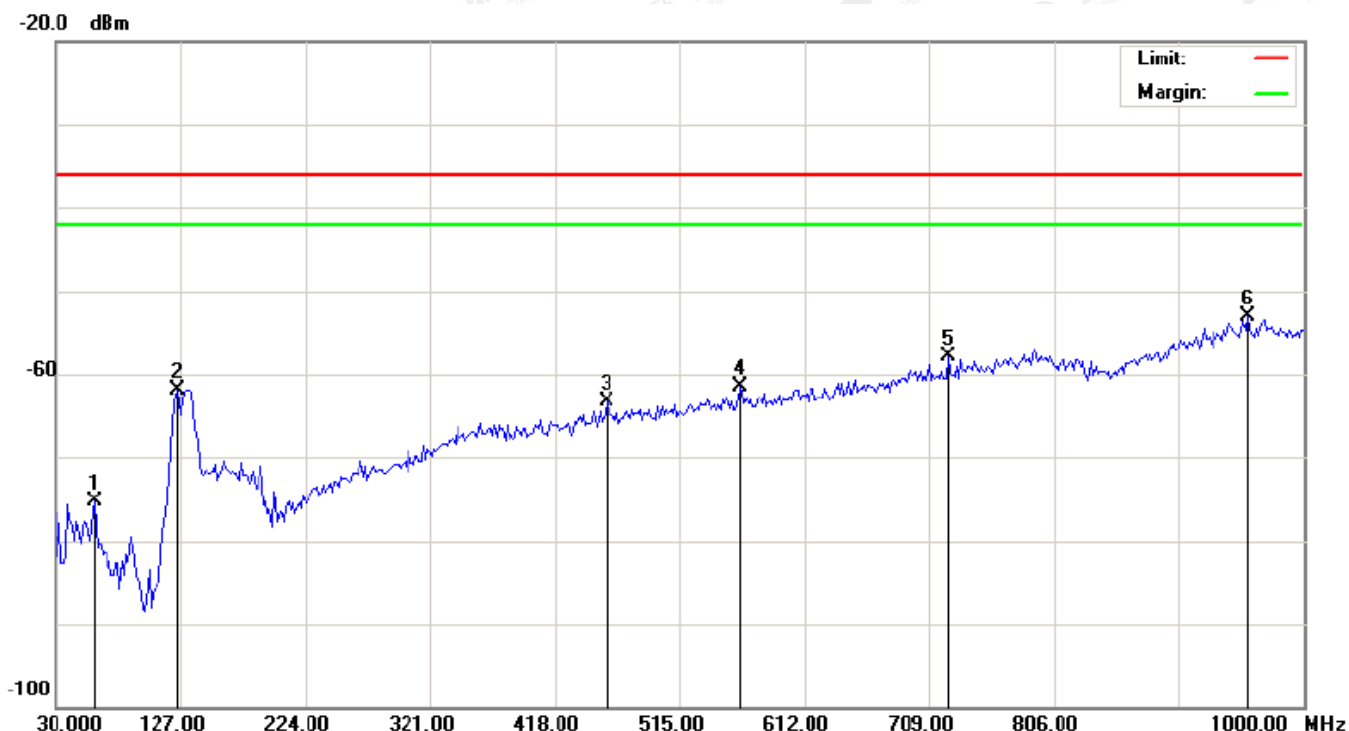
Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-82.26	-82.78	-82.95
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-69.21	-69.64	-69.88
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-65.36	-65.14	-65.67

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APPENDIX F. RADIATED SPURIOUS EMISSIONS

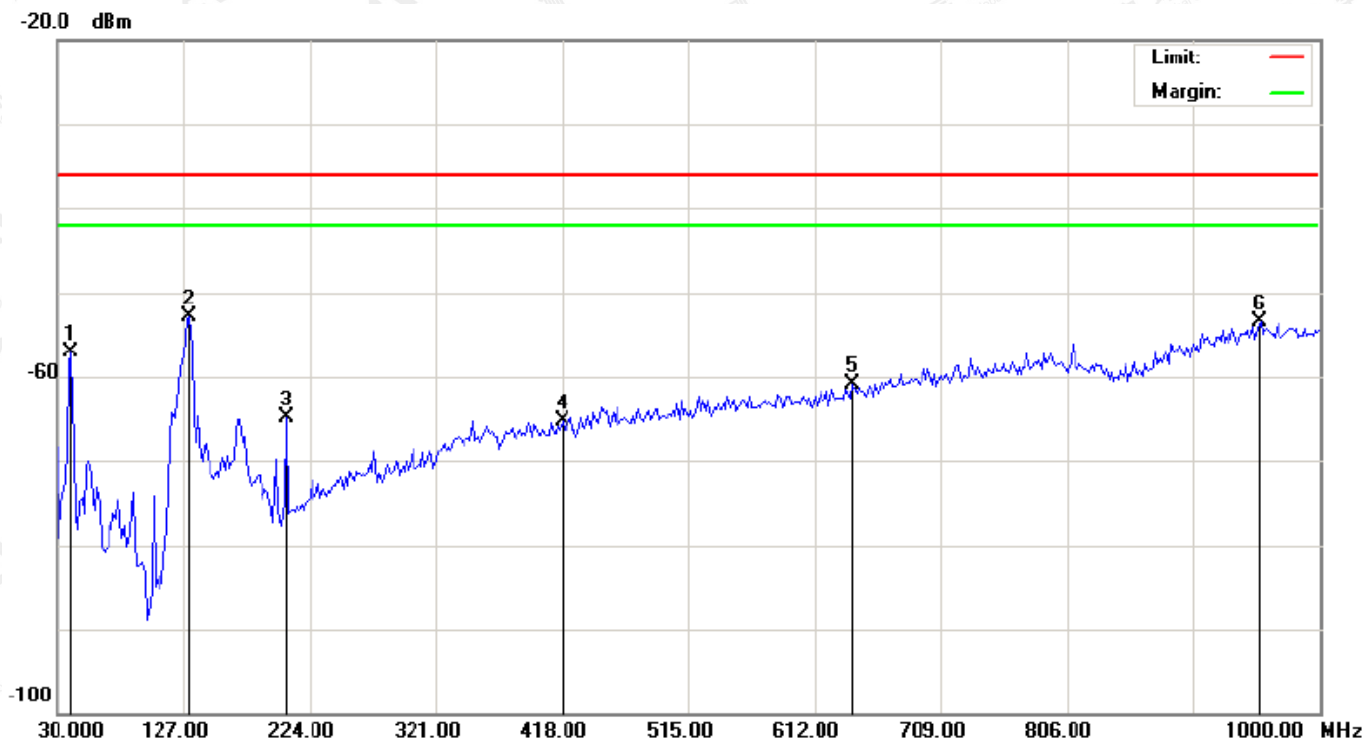
Radiated spurious emissions LTE band 1 Below 1GHZ– H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		60.7167	-105.24	29.87	-75.37	-36.00	-39.37	peak			
2		125.3833	-93.01	31.10	-61.91	-36.00	-25.91	peak			
3		458.4166	-105.94	42.69	-63.25	-36.00	-27.25	peak			
4		561.8832	-106.07	44.54	-61.53	-36.00	-25.53	peak			
5		723.5499	-105.56	47.64	-57.92	-36.00	-21.92	peak			
6	*	956.3500	-105.23	52.07	-53.16	-36.00	-17.16	peak			

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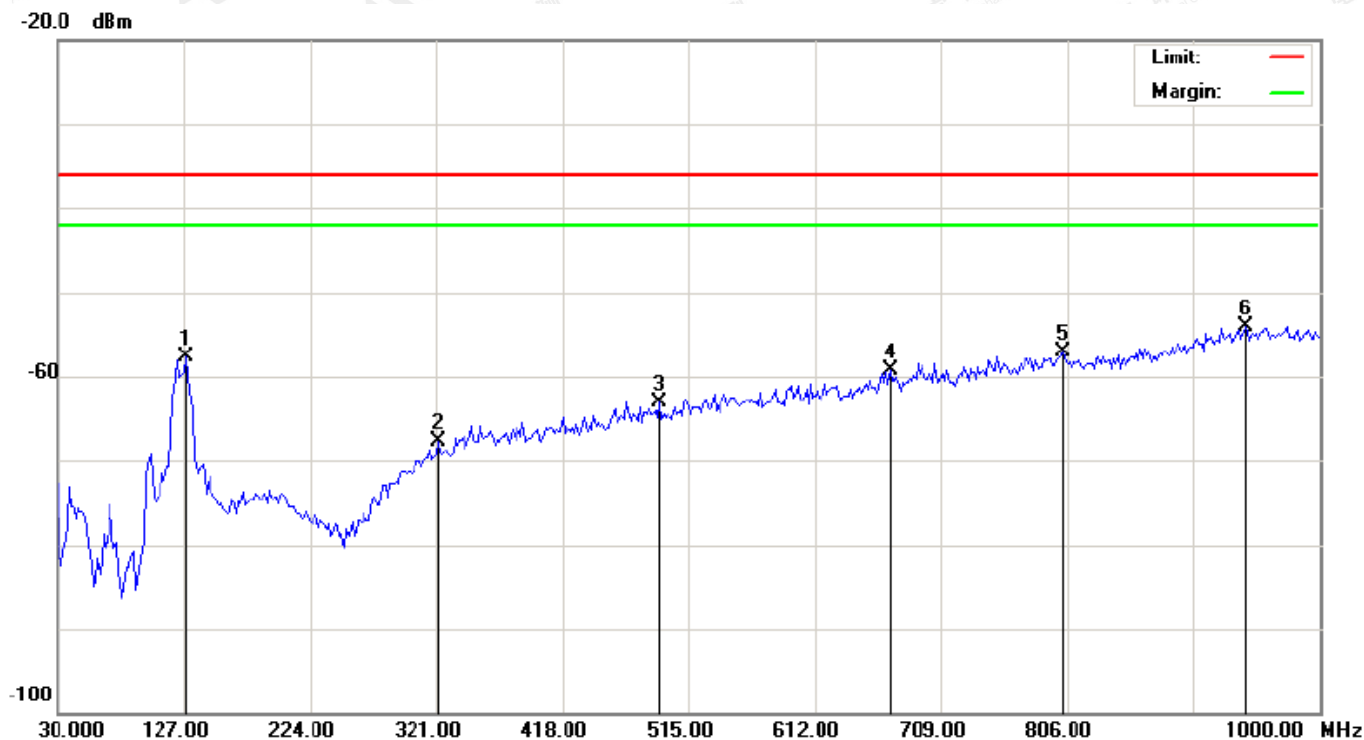
Radiated spurious emissions LTE band 1 Below 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3166	-87.75	30.63	-57.12	-36.00	-21.12	peak			
2	*	131.8499	-86.79	33.80	-52.99	-36.00	-16.99	peak			
3		206.2167	-96.48	31.61	-64.87	-36.00	-28.87	peak			
4		418.0000	-107.06	41.80	-65.26	-36.00	-29.26	peak			
5		641.1000	-106.63	45.65	-60.98	-36.00	-24.98	peak			
6		954.7332	-105.64	52.05	-53.59	-36.00	-17.59	peak			

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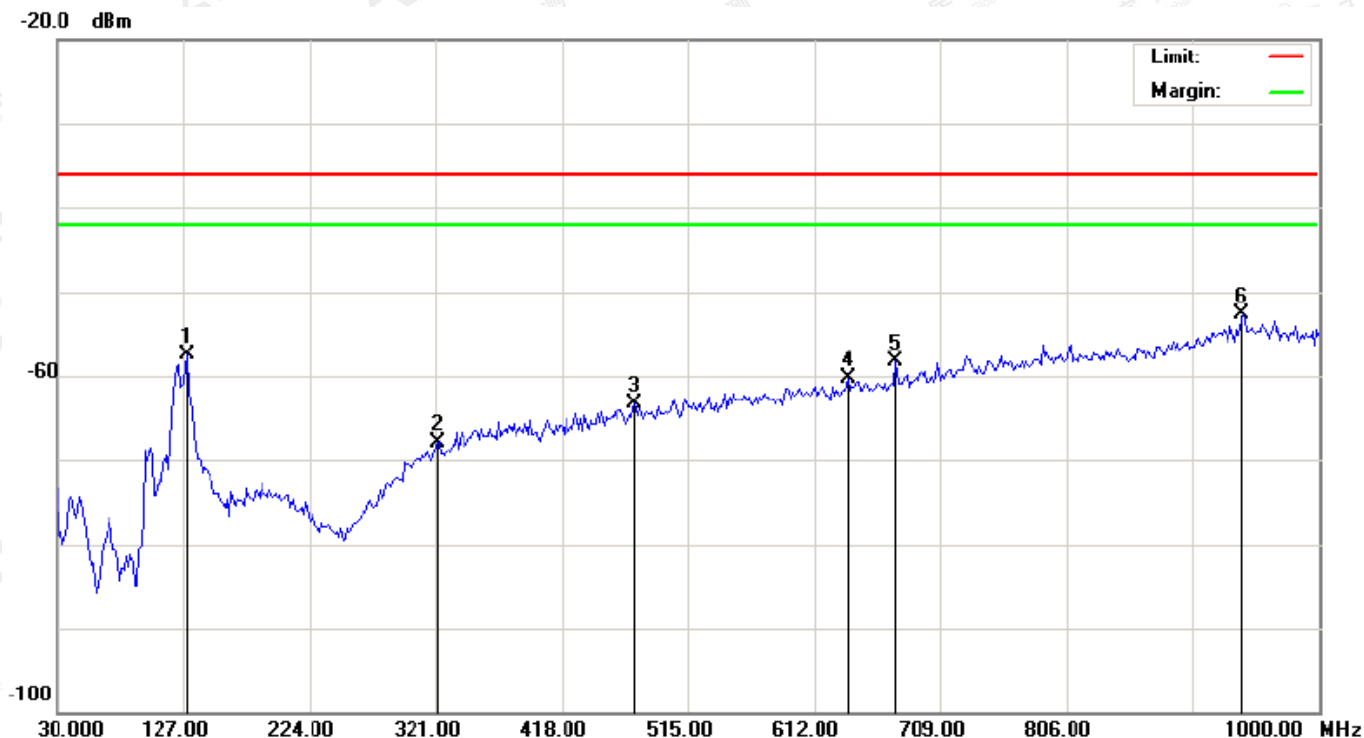
Radiated spurious emissions LTE band 3 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		128.6167	-95.27	37.60	-57.67	-36.00	-21.67	peak			
2		322.6166	-106.45	38.77	-67.68	-36.00	-31.68	peak			
3		492.3666	-106.38	43.19	-63.19	-36.00	-27.19	peak			
4		670.2000	-105.72	46.38	-59.34	-36.00	-23.34	peak			
5		802.7667	-106.51	49.32	-57.19	-36.00	-21.19	peak			
6	*	943.4166	-105.87	51.82	-54.05	-36.00	-18.05	peak			

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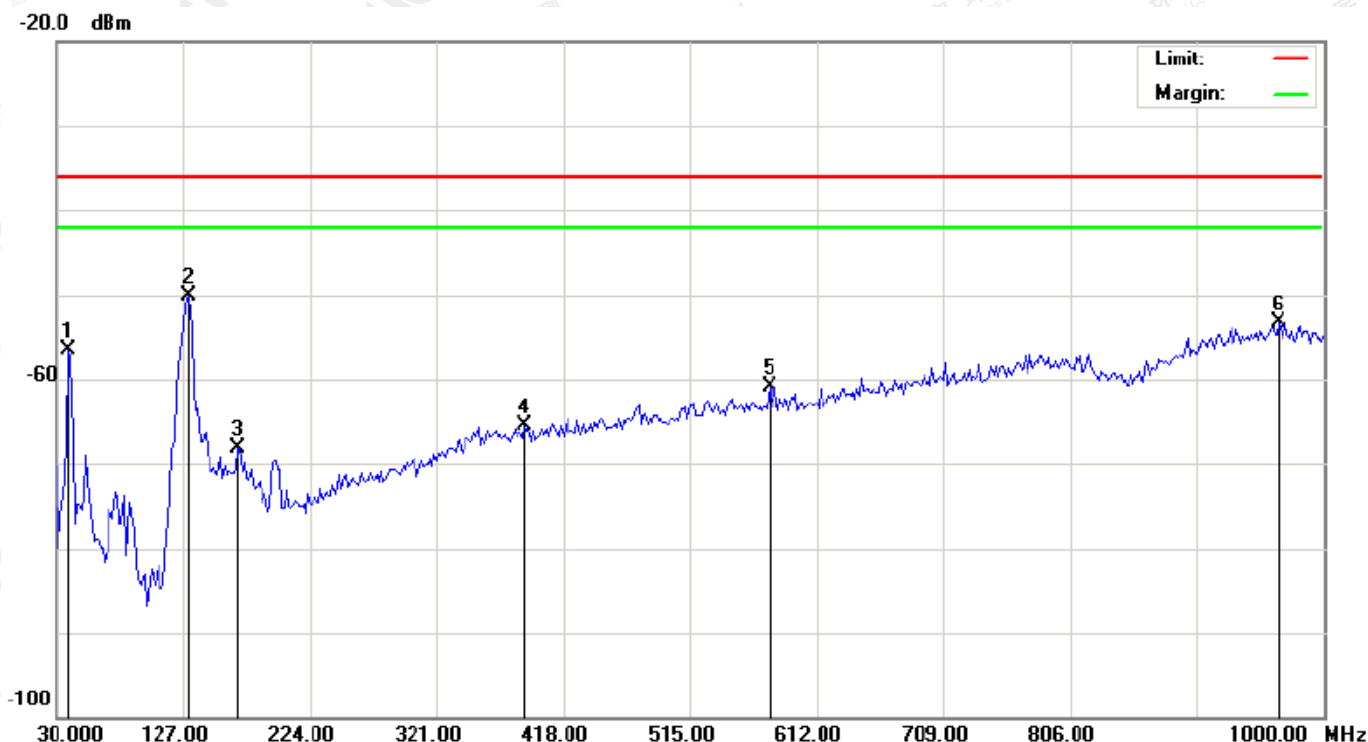
Radiated spurious emissions LTE band 3 Below 1GHZ- V



No.	Mk	Freq. MHz	Reading dBm	Factor dB	Measurement dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		130.2332	-95.10	37.59	-57.51	-36.00	-21.51	peak			
2		322.6166	-106.64	38.77	-67.87	-36.00	-31.87	peak			
3		474.5833	-106.14	42.80	-63.34	-36.00	-27.34	peak			
4		637.8667	-106.01	45.73	-60.28	-36.00	-24.28	peak			
5		675.0499	-104.84	46.50	-58.34	-36.00	-22.34	peak			
6	*	941.7999	-104.56	51.77	-52.79	-36.00	-16.79	peak			

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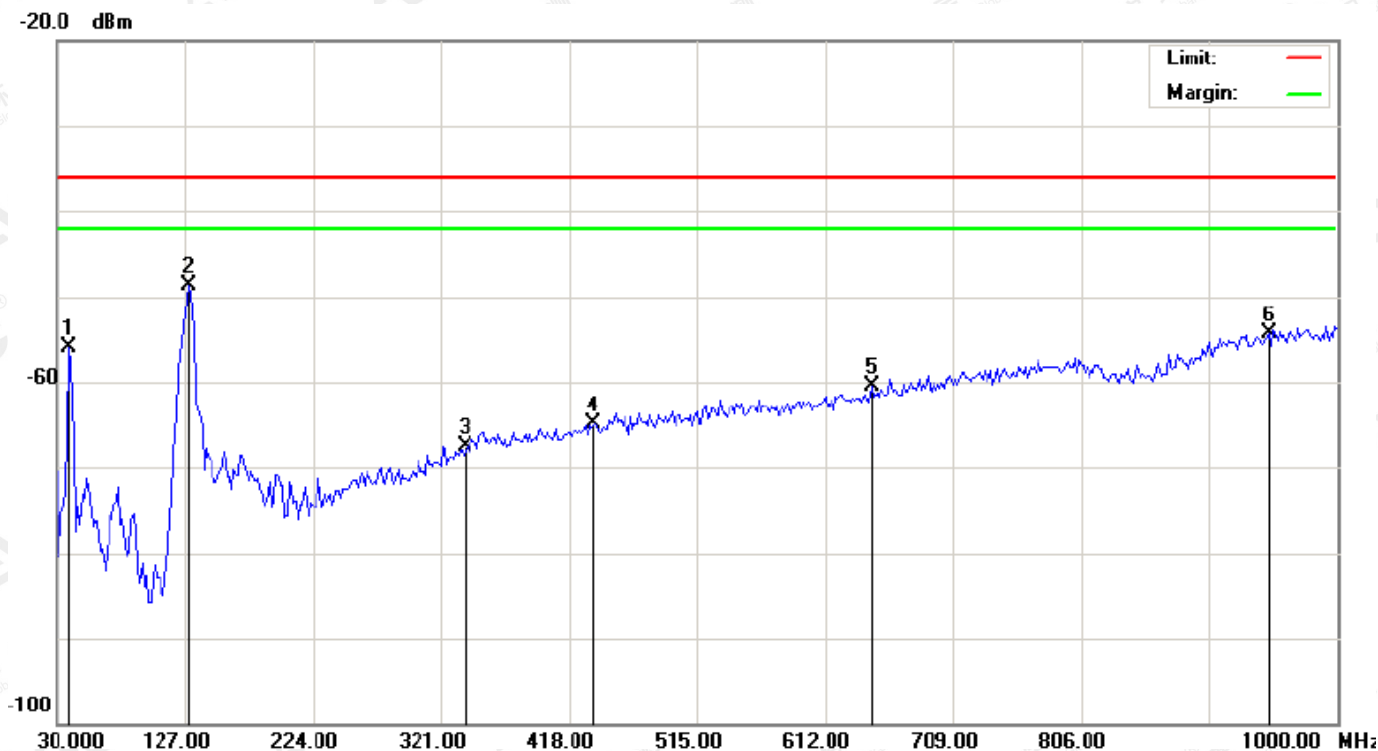
Radiated spurious emissions LTE band 7 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		39.7000	-86.86	30.30	-56.56	-36.00	-20.56	peak			
2	*	131.8499	-83.96	33.80	-50.16	-36.00	-14.16	peak			
3		169.0331	-104.71	36.71	-68.00	-36.00	-32.00	peak			
4		388.8999	-106.81	41.22	-65.59	-36.00	-29.59	peak			
5		576.4333	-105.53	44.61	-60.92	-36.00	-24.92	peak			
6		966.0499	-105.42	52.17	-53.25	-36.00	-17.25	peak			

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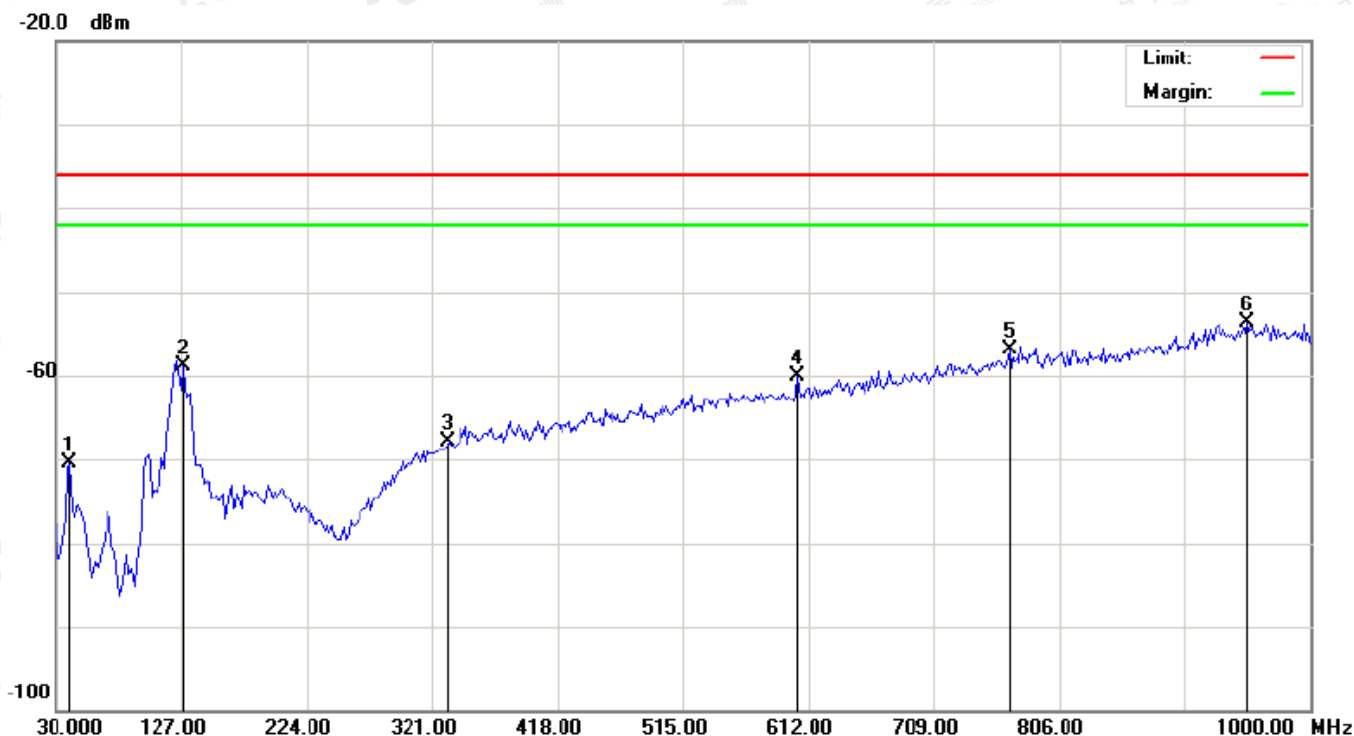
Radiated spurious emissions LTE band 7 Below 1GHZ-V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		39.7000	-86.29	30.30	-55.99	-36.00	-19.99	peak			
2	*	130.2332	-81.85	33.13	-48.72	-36.00	-12.72	peak			
3		340.3999	-107.67	40.11	-67.56	-36.00	-31.56	peak			
4		437.3999	-107.14	42.28	-64.86	-36.00	-28.86	peak			
5		647.5666	-106.26	45.80	-60.46	-36.00	-24.46	peak			
6		948.2667	-106.16	51.95	-54.21	-36.00	-18.21	peak			

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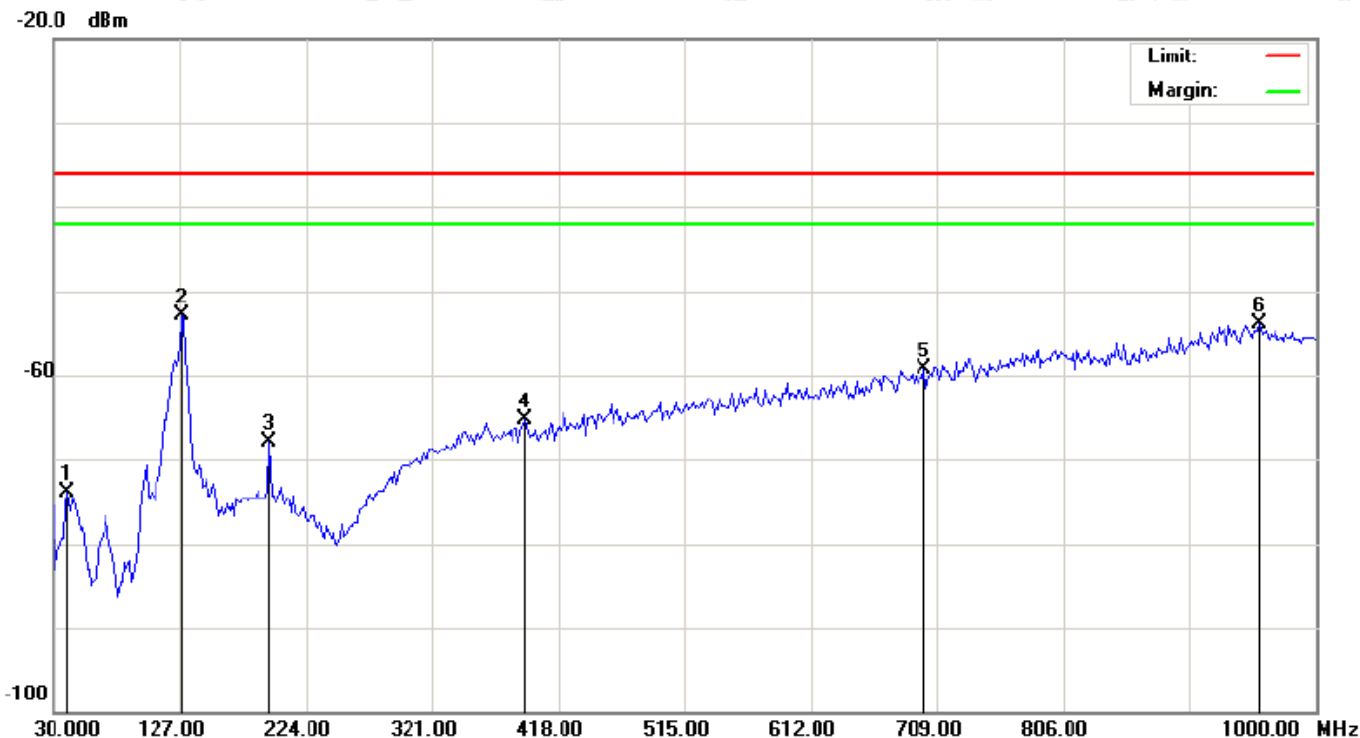
Radiated spurious emissions LTE band 8 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3166	-103.64	33.21	-70.43	-36.00	-34.43	peak			
2		128.6167	-96.56	37.60	-58.96	-36.00	-22.96	peak			
3		333.9332	-107.28	39.45	-67.83	-36.00	-31.83	peak			
4		603.9166	-105.56	45.39	-60.17	-36.00	-24.17	peak			
5		767.2000	-105.52	48.64	-56.88	-36.00	-20.88	peak			
6	*	951.5000	-105.64	51.99	-53.65	-36.00	-17.65	peak			

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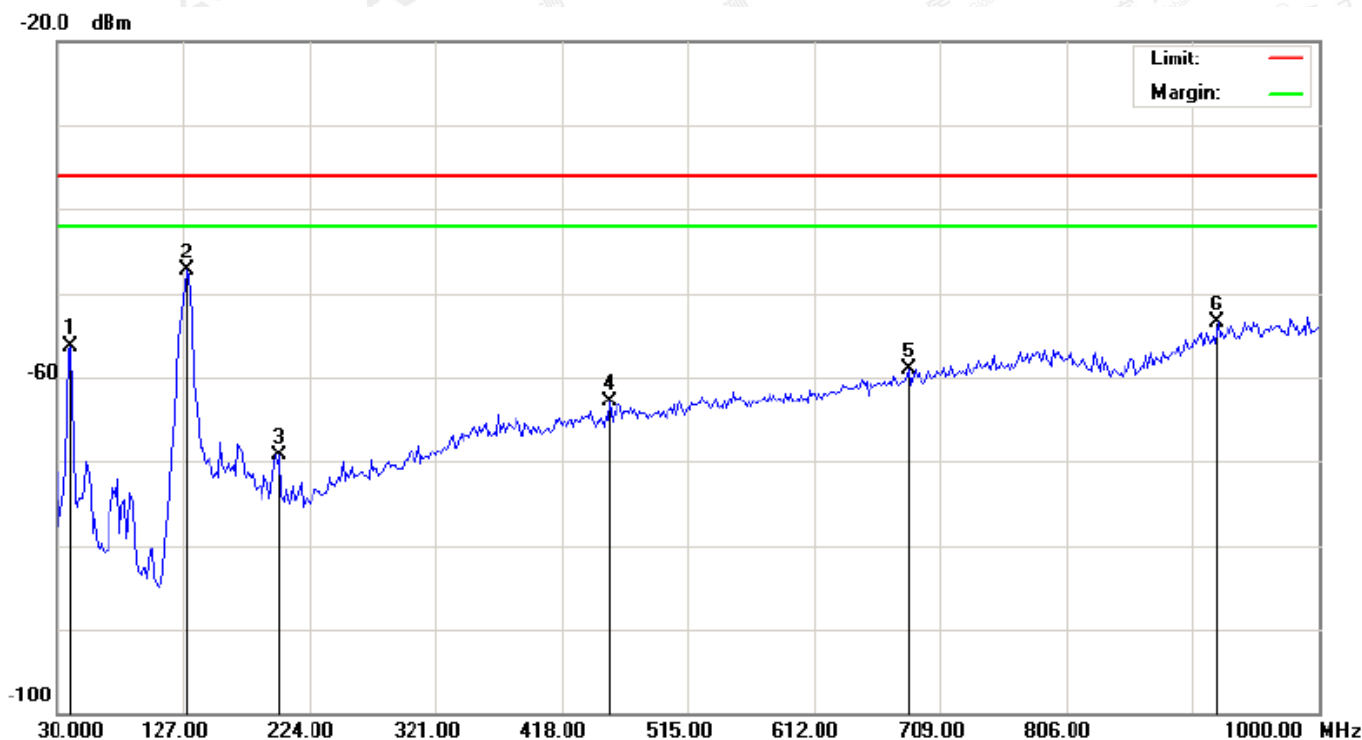
Radiated spurious emissions LTE band 8 Below 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3166	-107.06	33.21	-73.85	-36.00	-37.85	peak			
2	*	128.6167	-90.51	37.60	-52.91	-36.00	-16.91	peak			
3		196.5166	-102.00	34.01	-67.99	-36.00	-31.99	peak			
4		392.1333	-106.36	40.97	-65.39	-36.00	-29.39	peak			
5		699.2999	-106.40	47.13	-59.27	-36.00	-23.27	peak			
6		956.3500	-105.84	51.94	-53.90	-36.00	-17.90	peak			

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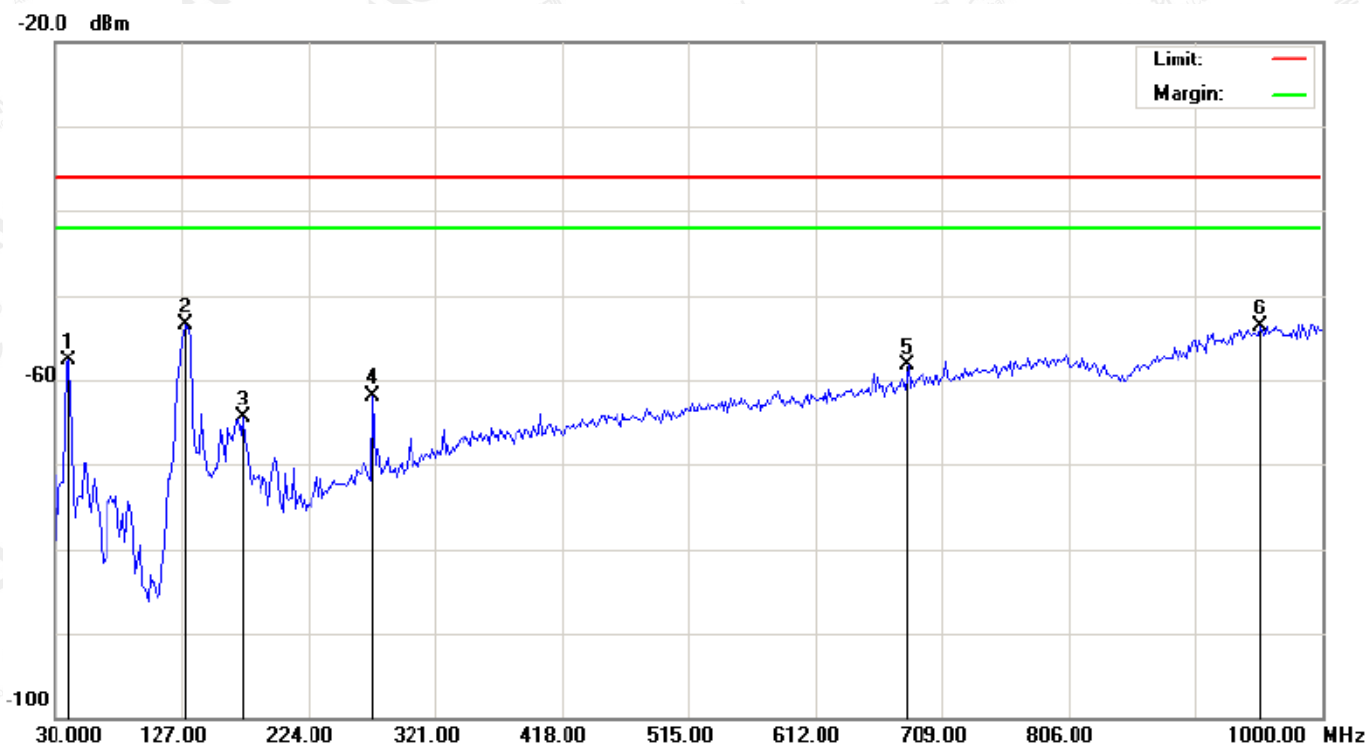
Radiated spurious emissions LTE band 20 Below 1GHz- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3166	-86.95	30.63	-56.32	-36.00	-20.32	peak			
2	*	130.2332	-80.35	33.13	-47.22	-36.00	-11.22	peak			
3		201.3667	-100.35	31.13	-69.22	-36.00	-33.22	peak			
4		455.1832	-105.62	42.65	-62.97	-36.00	-26.97	peak			
5		684.7500	-105.87	46.78	-59.09	-36.00	-23.09	peak			
6		922.3999	-104.67	51.23	-53.44	-36.00	-17.44	peak			

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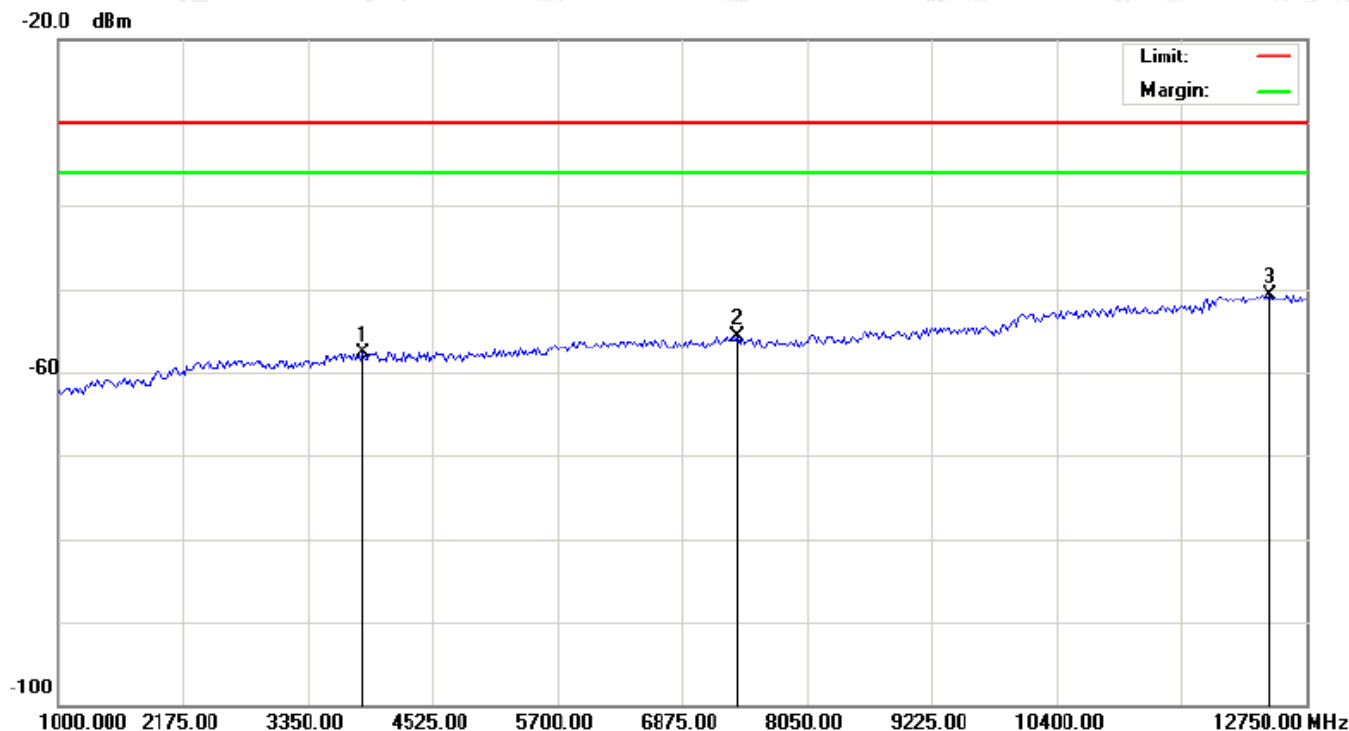
Radiated spurious emissions LTE band 20 Below 1GHz- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3166	-88.31	30.63	-57.68	-36.00	-21.68	peak			
2	*	130.2332	-86.68	33.13	-53.55	-36.00	-17.55	peak			
3		173.8832	-101.00	36.42	-64.58	-36.00	-28.58	peak			
4		274.1166	-98.45	36.63	-61.82	-36.00	-25.82	peak			
5		683.1332	-105.05	46.74	-58.31	-36.00	-22.31	peak			
6		953.1167	-105.68	52.03	-53.65	-36.00	-17.65	peak			

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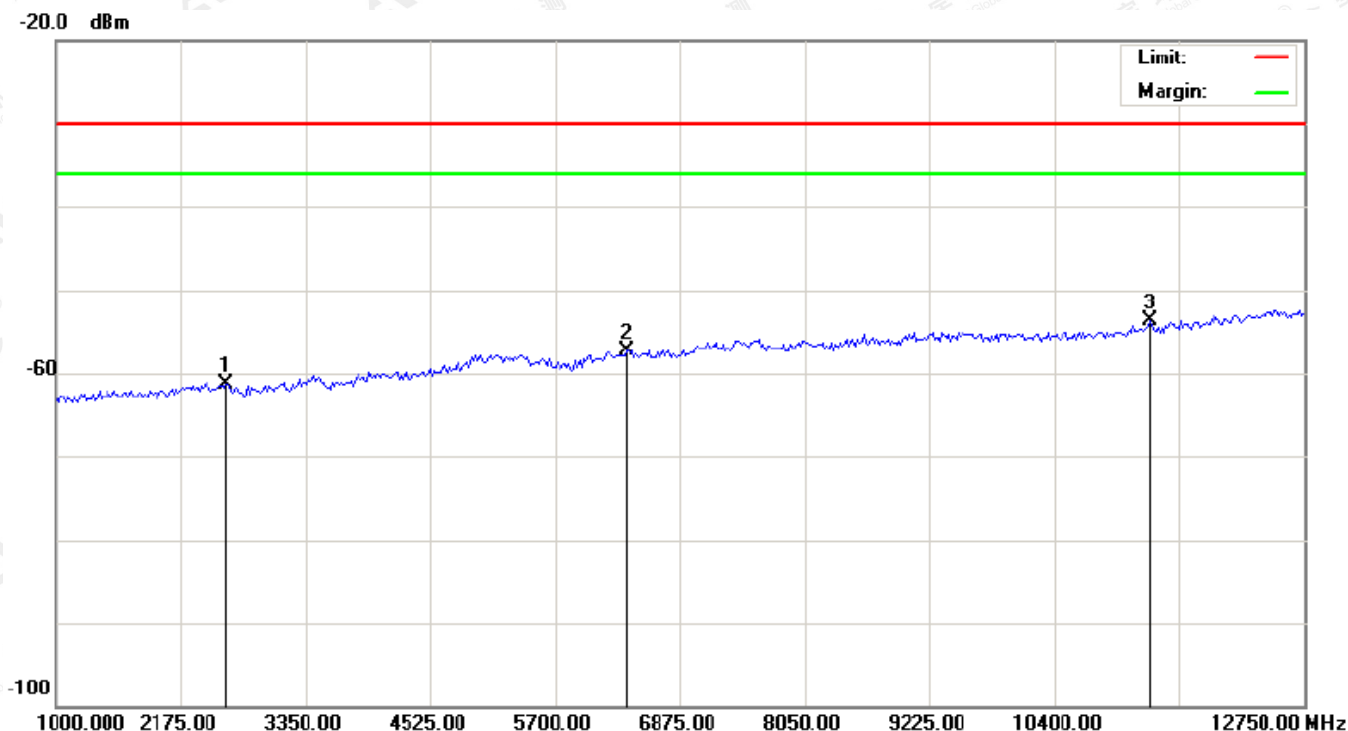
Radiated spurious emissions LTE band 1 Above 1GHZ– H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		3878.750	-54.49	-3.30	-57.79	-30.00	-27.79	peak			
2		7403.750	-56.90	1.20	-55.70	-30.00	-25.70	peak			
3	*	12417.083	-52.49	1.70	-50.79	-30.00	-20.79	peak			

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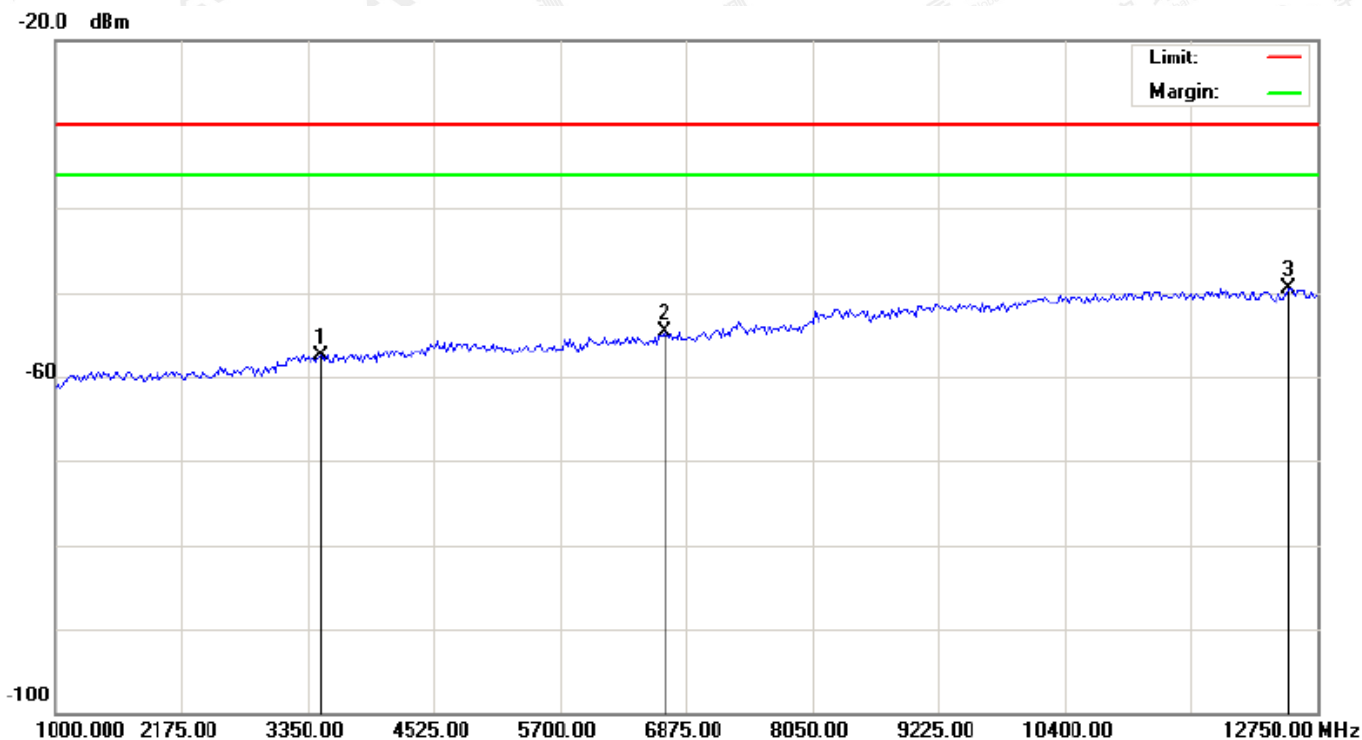
Radiated spurious emissions LTE band 1 Above 1GHz- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		2605.833	-53.70	-7.50	-61.20	-30.00	-31.20	peak			
2		6385.417	-58.46	1.20	-57.26	-30.00	-27.26	peak			
3	*	11300.833	-55.48	1.70	-53.78	-30.00	-23.78	peak			

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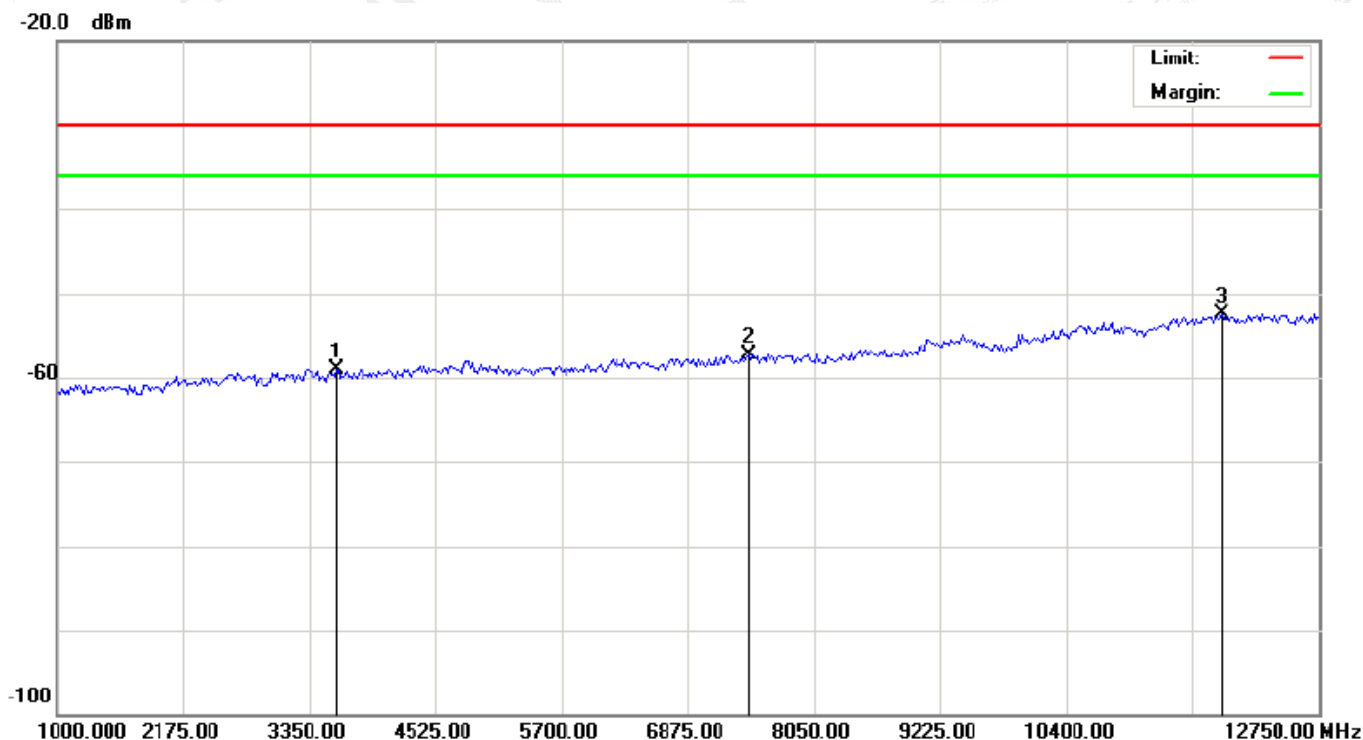
Radiated spurious emissions LTE band 3 Above 1GHZ– H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		3487.083	-54.18	-3.30	-57.48	-30.00	-27.48	peak			
2		6679.167	-55.90	1.20	-54.70	-30.00	-24.70	peak			
3	*	12495.417	-51.27	1.70	-49.57	-30.00	-19.57	peak			

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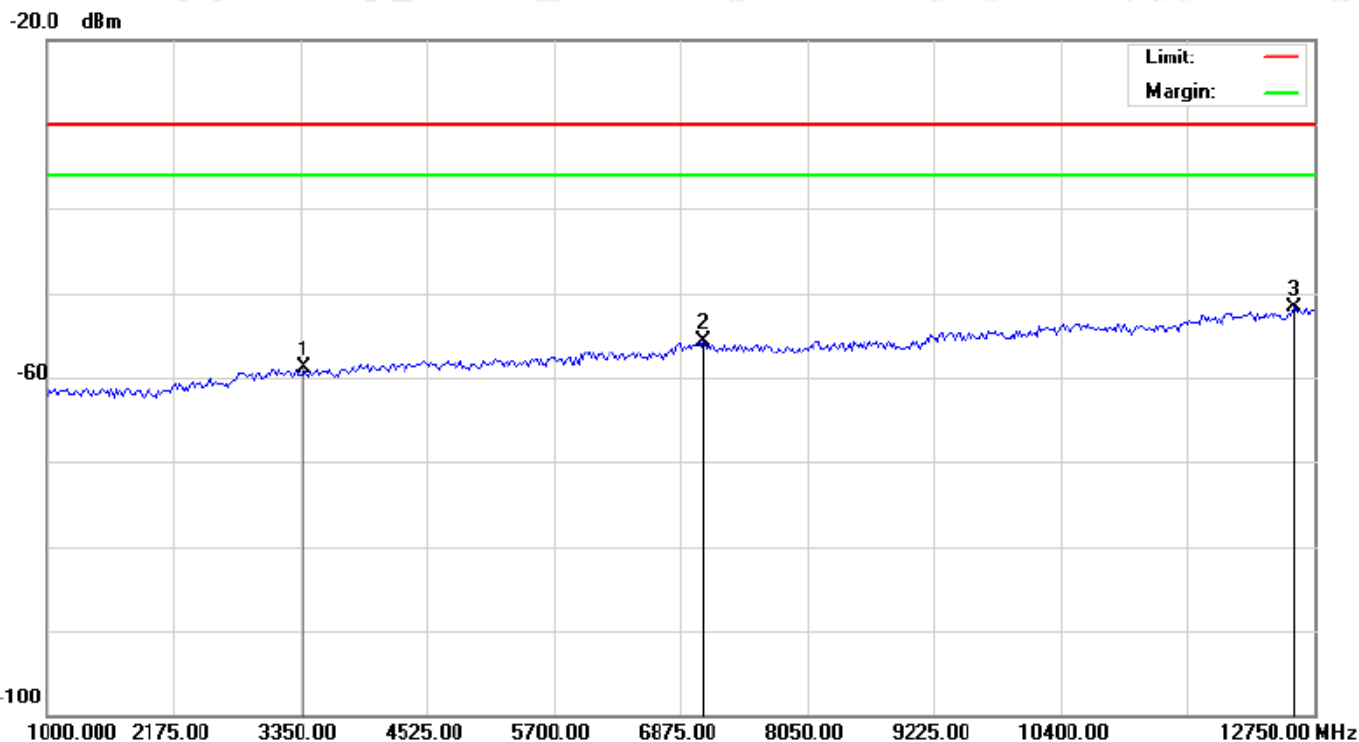
Radiated spurious emissions LTE band 3 Above 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		3604.583	-55.72	-3.30	-59.02	-30.00	-29.02	peak			
2		7442.917	-58.52	1.20	-57.32	-30.00	-27.32	peak			
3	*	11849.167	-54.28	1.70	-52.58	-30.00	-22.58	peak			

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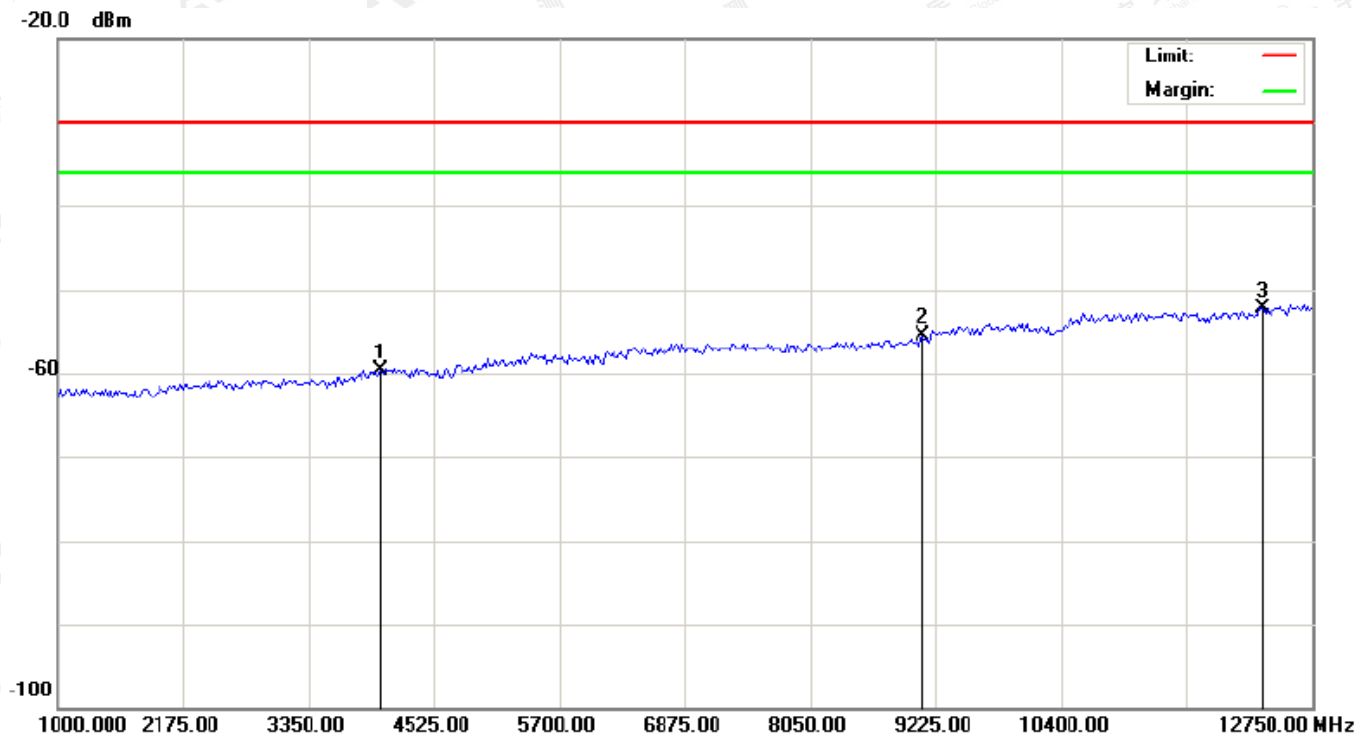
Radiated spurious emissions LTE band 7 Above 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		3389.167	-55.68	-3.30	-58.98	-30.00	-28.98	peak			
2		7090.417	-56.80	1.20	-55.60	-30.00	-25.60	peak			
3	*	12573.750	-53.40	1.70	-51.70	-30.00	-21.70	peak			

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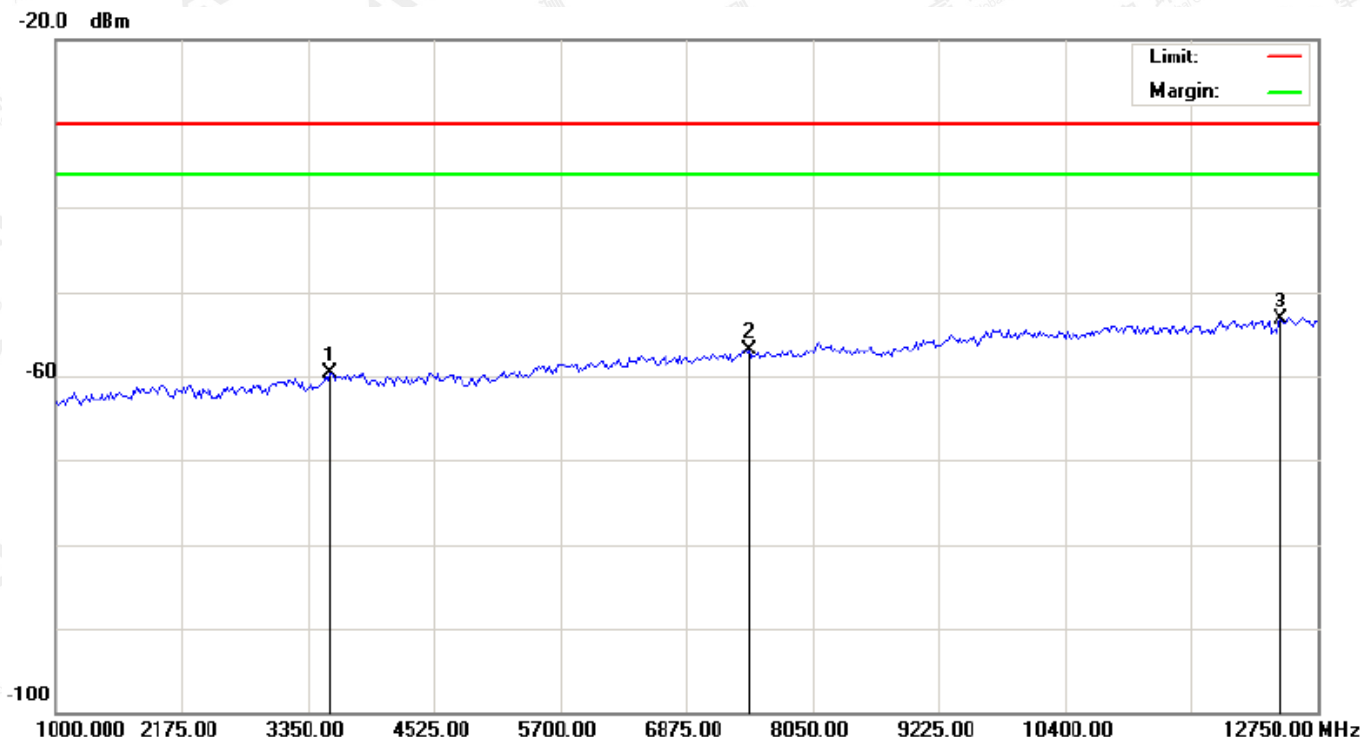
Radiated spurious emissions LTE band 7 Above 1GHz- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		4035.417	-56.39	-3.30	-59.69	-30.00	-29.69	peak			
2		9107.500	-56.72	1.20	-55.52	-30.00	-25.52	peak			
3	*	12280.000	-54.02	1.70	-52.32	-30.00	-22.32	peak			

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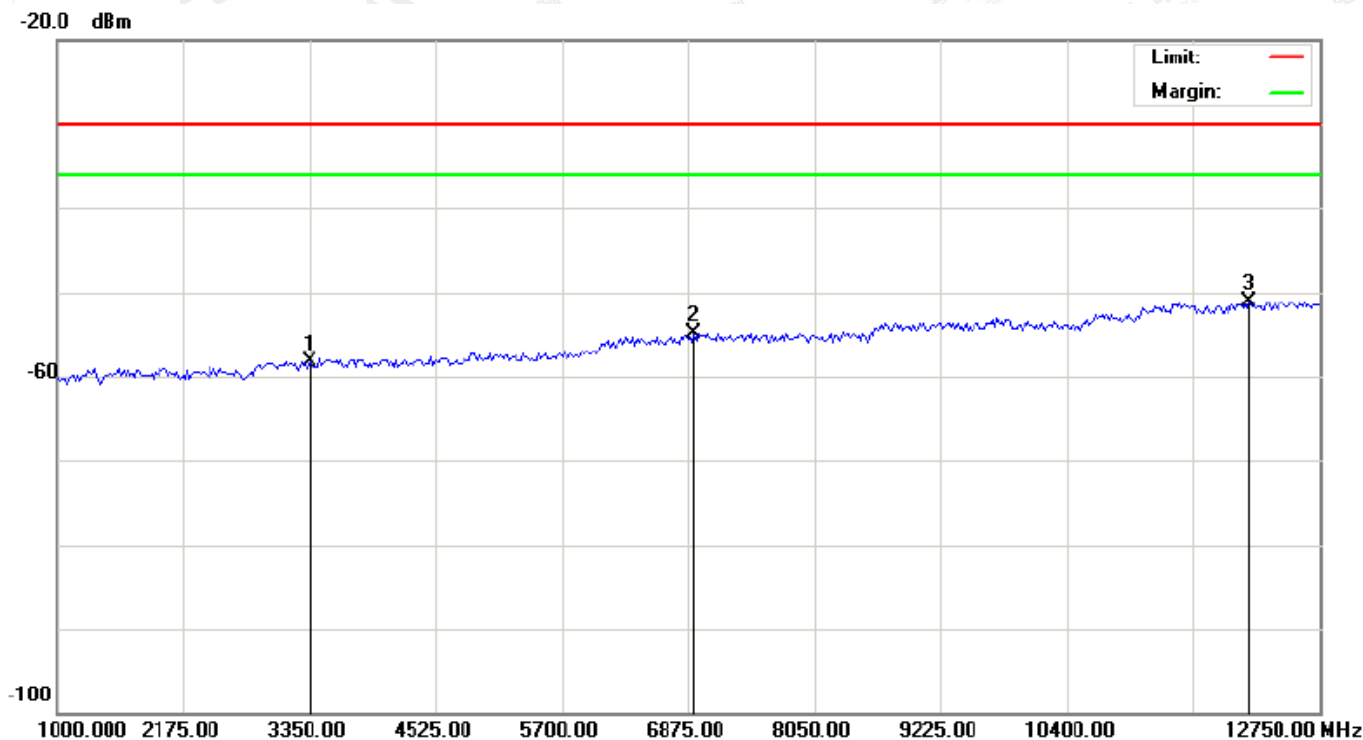
Radiated spurious emissions LTE band 8 Above 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		3565.417	-56.40	-3.30	-59.70	-30.00	-29.70	peak			
2		7462.500	-58.18	1.20	-56.98	-30.00	-26.98	peak			
3	*	12417.083	-54.99	1.70	-53.29	-30.00	-23.29	peak			

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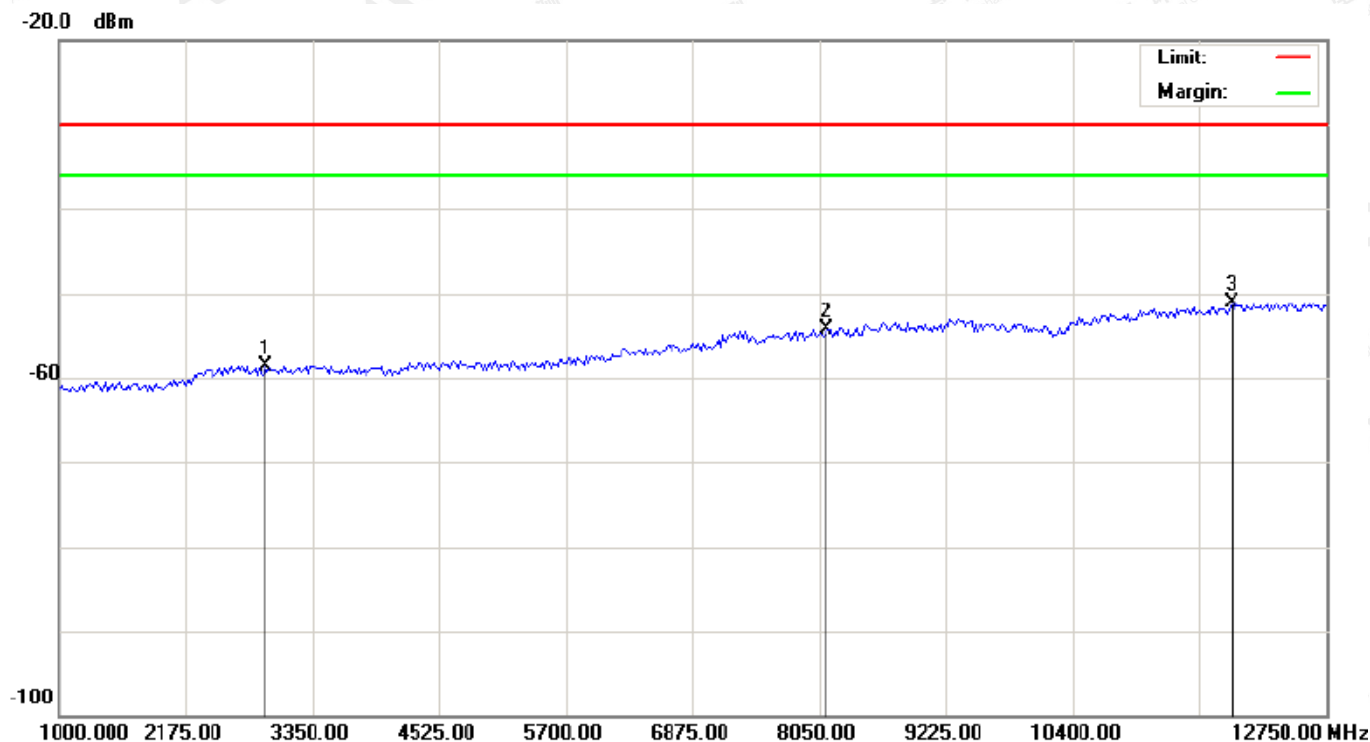
Radiated spurious emissions LTE band 8 Above 1GHZ- V



No.	Mk	Freq. MHz	Reading dBm	Factor dB	Measurement dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		3350.000	-54.93	-3.30	-58.23	-30.00	-28.23	peak			
2		6933.750	-56.12	1.20	-54.92	-30.00	-24.92	peak			
3	*	12103.750	-52.80	1.70	-51.10	-30.00	-21.10	peak			

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

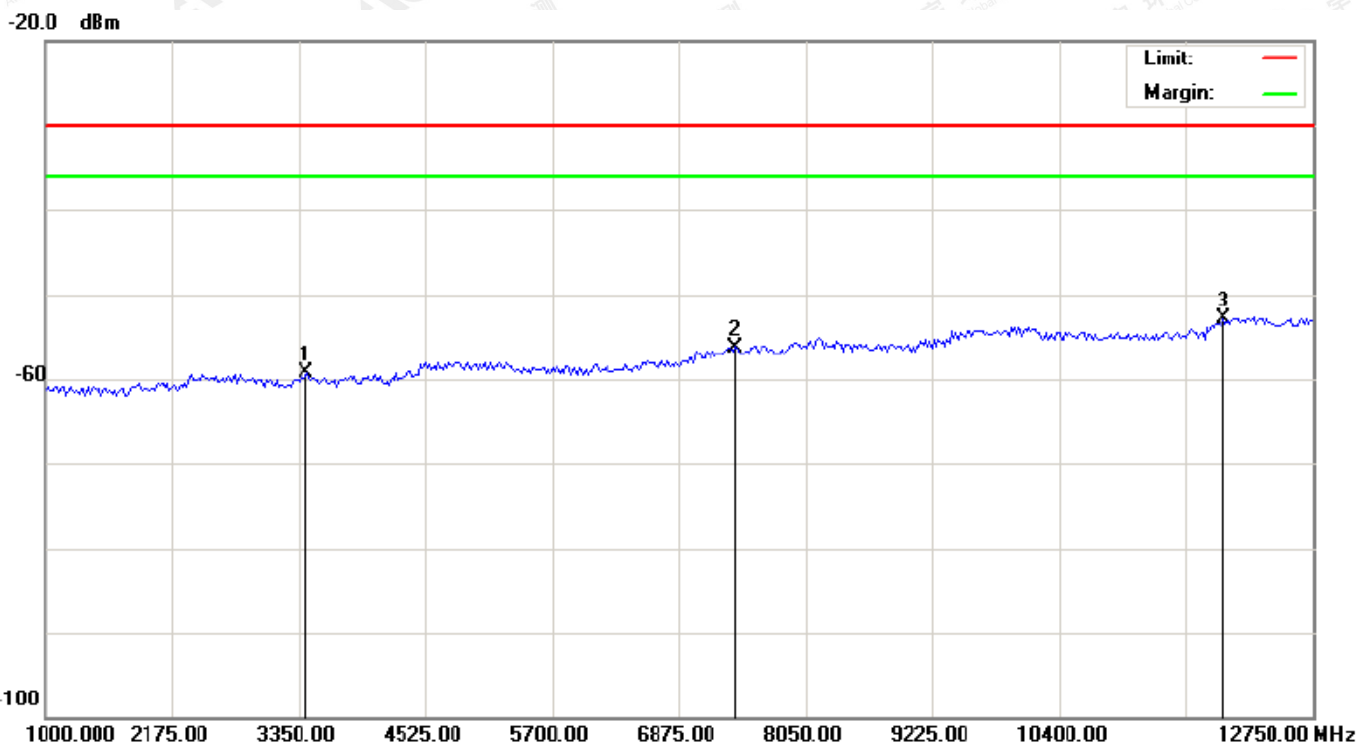
Radiated spurious emissions LTE band 20 Above 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		2919.167	-51.11	-7.50	-58.61	-30.00	-28.61	peak			
2		8128.333	-55.43	1.20	-54.23	-30.00	-24.23	peak			
3	*	11888.333	-52.83	1.70	-51.13	-30.00	-21.13	peak			

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

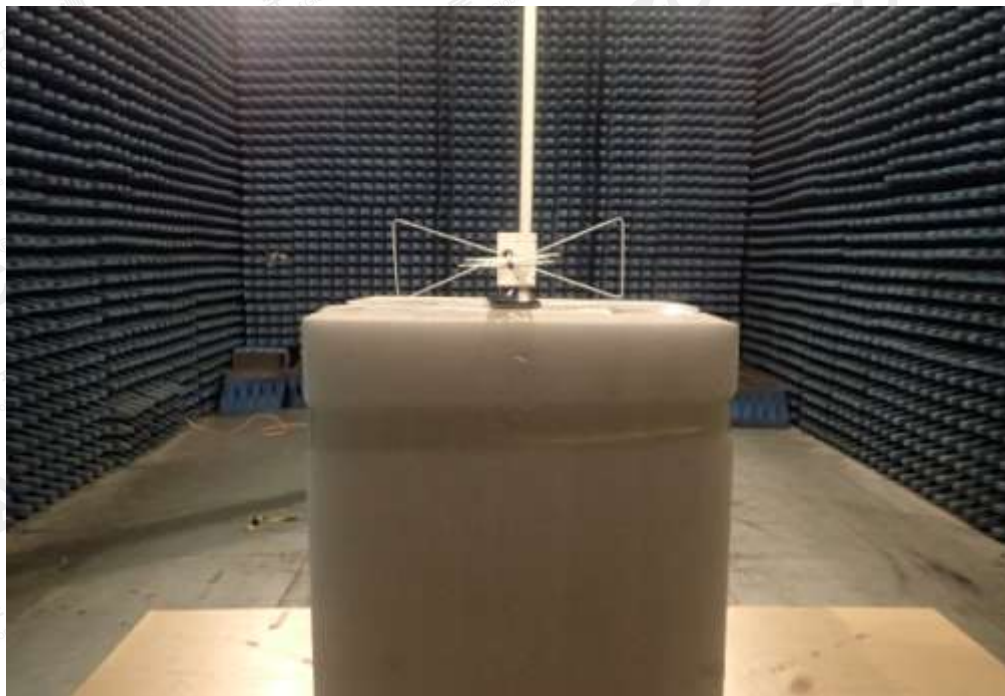
Radiated spurious emissions LTE band 20 Above 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		3428.333	-56.04	-3.30	-59.34	-30.00	-29.34	peak			
2		7403.750	-57.40	1.20	-56.20	-30.00	-26.20	peak			
3	*	11927.500	-54.50	1.70	-52.80	-30.00	-22.80	peak			

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

APPENDIX G: PHOTOGRAPHS OF TEST SETUP
RADIATED SPURIOUS EMISSION TEST



RADIATED SPURIOUS EMISSION-ABOVE 1G TEST



----END OF REPORT----

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