

# RF Test Report

Report No.: AGC00552191001EE07

**PRODUCT DESIGNATION** : Smart Phone  
**BRAND NAME** : CUBOT  
**MODEL NAME** : X19 S  
**APPLICANT** : Shenzhen Huafurui Technology Co., Ltd.  
**DATE OF ISSUE** : Nov. 14, 2019  
**STANDARD(S)** : EN 301 908-1 V11.1.1 (2016-07)  
: EN 301 908-2 V11.1.2 (2017-08)  
**REPORT VERSION** : V1.0

**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	/	Nov. 14, 2019	Valid	Initial release



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## 1. TEST REPORT CERTIFICATION

<b>Applicant</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	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
<b>Manufacturer</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	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
<b>Factory Name</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	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
<b>Product Designation</b>	Smart Phone
<b>Brand Name</b>	CUBOT
<b>Test Model</b>	X19 S
<b>Date of test</b>	Oct. 14, 2019 to Nov. 13, 2019
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-EC-3G1/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/-2. 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.

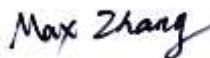
Prepared By



Jeast Zhan  
(Project Engineer)

Nov. 13, 2019

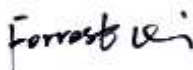
Reviewed By



Max Zhang  
(Reviewer)

Nov. 14, 2019

Approved By



Forrest Lei  
(Authorized Officer)

Nov. 14, 2019



## 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	X19 S
Product Type	UMTS
Hardware Version	Q593_MB_V1.0
Software Version	CUBOT_X19_9021C_V01_20190926
UMTS Frequency Bands	<input checked="" type="checkbox"/> FDD Band I <input checked="" type="checkbox"/> FDD Band VIII (EU Bands)
Modulation Mode	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Type	Integral Antenna (Temporary RF connector provided by manufacture)
Antenna Gain	FDD Band I: 1.10dBi, FDD Band VIII:0.62dBi
Power Class	FDD Band I:3, FDD Band VIII:3
GSM Release Version	N/A
SIM Card Description	There are dual-SIM cards, just one for GSM/WCDMA/LTE and the other only for GSM.

#### 2.1.2. PHOTOGRAPHS OF THE EUT

Please see Photo report 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 Huaforui Technology Co., Ltd.
Test Model	X19 S
Product Type	FDD Band I, FDD Band VIII
Frequency Bands	HSDPA:QPSK/16QAM;HSUPA:BPSK WCDMA: QPSK

## 2.2. TYPE OF PICS/PIXIT INFORMATION

Item	Release	FDD (DS) RF Baseline Implementation capabilities	Support	Allowed Value	Comments
1	R99	Chip rate 3.84 Mbps	YES	Yes/No	--
2	R99	Frequency band: 1920-1980, 2110-2170 MHz	YES	Yes/No	Band I
3	R99	Frequency band: 1850-1910, 1930-1990 MHz	NO	Yes/No	Band II
9	R99	UE Power Class 1 (+33 dBm)	NO	Yes/No	--
10	R99	UE Power Class 2 (+27 dBm)	NO	Yes/No	--
11	R99	UE Power Class 3 (+24 dBm)	YES	Yes/No	--
12	R99	UE Power Class 4 (+21 dBm)	NO	Yes/No	--
14	R99	Frequency band: 1710-1785, 1805-1880 MHz	NO	Yes/No	Band III
15	R99	Frequency band: 1710-1755, 2110-2155 MHz	NO	Yes/No	Band IV
16	R99	Frequency band: 824-849, 869-894 MHz	NO	Yes/No	Band V
17	R99	Frequency band: 830-840, 875-885 MHz	NO	Yes/No	Band VI
18	R99	Frequency band: 2500-2570, 2620-2690 MHz	NO	Yes/No	Band VII
19	R99	Frequency band: 880-915, 925-960 MHz	YES	Yes/No	Band VIII
20	R99	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	NO	Yes/No	Band IX
21	R99	Frequency band: 1710-1770, 2110-2170 MHz	NO	Yes/No	Band X
22	R99	Frequency band: 1427.9-1452.9, 1475.9-1500.9 MHz	NO	Yes/No	Band XI
23	R99	Frequency band: 698-716, 728-746 MHz	NO	Yes/No	Band XII
24	R99	Frequency band: 777-787, 746-756 MHz	NO	Yes/No	Band XIII
25	R99	Frequency band: 788-798, 758-768 MHz	NO	Yes/No	Band XIV



### 3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

<b>Test Site-1</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

Note: adjacent channel selectivity, blocking characteristics, intermodulation characteristics of receiver test within the scope of TAF approval.

#### LIST OF EQUIPMENTS USED OF AGC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Feb. 27, 2019	Feb. 26, 2020
2	CMU200	R&S	120237	Feb. 27, 2019	Feb. 26, 2020
3	Wireless communication test set 8960	Agilent	GB46200384	Jul. 11, 2019	Jul. 10, 2020
4	Power Splitter 11636A	Agilent	34	Sep.09, 2019	Sep.08, 2020
5	Attenuator	JFW	50FHC-006-50	Jun. 12, 2019	Jun. 11, 2020
6	Vector Signal Generator SMU200A	R&S	104332	Sep.09, 2019	Sep.08, 2020
7	VECTOR ANALYZER E4440A	Agilent	MY44303916	Feb. 27, 2019	Feb. 26, 2020
8	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep.09, 2019	Sep.08, 2020
9	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep.09, 2019	Sep.08, 2020
10	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Feb. 27, 2019	Feb. 28, 2020
11	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
12	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Sep.09, 2019	Sep.08, 2020
13	DC Power Source	N/A	GBD-60V30A	Feb. 27, 2019	Feb. 26, 2020
14	Attenuator	JFW	50FHC-006-50	Jun. 12, 2019	Jun. 11, 2020
15	EMI Test Receiver ESCI	R&S	10096	Jun. 12, 2019	Jun. 11, 2020
16	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	May 17, 2019	May 16, 2021
17	Trilog Broadband Antenna VULB 9168	SCHWARZBEC K	494	Jan. 09, 2019	Jan. 08, 2021
18	LOOP ANTENNA SAS-562B	A.H	/	Mar. 01, 2018	Feb. 28, 2020



No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
19	Artificial Mains Network ENV4200	R&S	101116	Jul. 11, 2019	Jul. 10, 2020
20	Artificial Mains Network ENV216	R&S	101242	Jul. 11, 2019	Jul. 10, 2020
21	Filter Bank Notch 1(880-915MHz)	MICRO-TRONI CS	010	Feb. 27, 2019	Feb. 26, 2020
22	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONI CS	009	Feb. 27, 2019	Feb. 26, 2020
23	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONI CS	008	Feb. 27, 2019	Feb. 26, 2020



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#### 4. MEASUREMENT UNCERTAINTY

Parameter	Conditions	Test System Uncertainty
Transmitter Maximum Output power	--	±0,6dB
Transmitter spectrum emissions mask	--	±1,4 dB
Transmitter spurious emissions	$f \leq 2,2 \text{ GHz}$	±1,35 dB
	$2,2 \text{ GHz} < f \leq 4 \text{ GHz}$	±1.8 dB
	$f > 4 \text{ GHz}$	±3.5 dB
	Co-existence band ( $\geq -60 \text{ dBm}$ )	±1.8 dB
	Co-existence band ( $< -60 \text{ dBm}$ )	±2.7 dB
Transmitter Minimum output power	--	±0.8 dB
Receiver Adjacent Channel Selectivity(ACS)	--	±0.9 dB
Receiver Blocking characteristics	$f < 15 \text{ MHz offset:}$	±1,1 dB
	$15 \text{ MHz offset} \leq f \leq 2,2 \text{ GHz}$	±0.8 dB
	$2,2 \text{ GHz} < f \leq 4 \text{ GHz}$	±1,5 dB
	$f > 4 \text{ GHz}$	±2.9 dB
Receiver spurious response	$f \leq 2,2 \text{ GHz}$	±0.8 dB
	$2,2 \text{ GHz} < f \leq 4 \text{ GHz}$	±1,5 dB
	$f > 4 \text{ GHz}$	±2.9 dB
Receiver intermodulation characteristics	--	±1,2 dB
Receiver spurious emissions	For UE receive band (-60 dBm)	±2.8 dB
	For UE transmit band (-60 dBm)	±2.9 dB
	Outside the UE receive band:	±1.8 dB
	$f \leq 2,2 \text{ GHz}$	±1.7 dB
	$2,2 \text{ GHz} < f \leq 4 \text{ GHz}$	±3.6 dB
Out of synchronization of handing power	DPCCH Ec/Ior	±0,3 dB
	Transmit OFF power	±0.8 dB
Transmitter adjacent channel leakage power ratio	--	±0,7 dB
Effective radiated RF power between 30 MHz and 180 MHz	--	±5 dB
Effective radiated RF power between 180 MHz and 12,75 GHz	--	±2 dB
Conducted RF power	--	±0.9 dB

## 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 301 908-2	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)

Specific reference documents for testing:

No.	Identity	Document Title
3	3GPP TS 34.121-1	3rd Generation Partnership Project; Technical Specification Group Radio Access Network ; Terminal conformance specification; Radio transmission and reception (FDD)
4	3GPP TS 34.121-2	3rd Generation Partnership Project; Technical Specification Group Radio Access Network User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)

### 5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	15 ... 35 °C
Relative Humidity	20 ... 75 %
Air Pressure	980 ... 1020 hPa
Adapter Test Model Name	HJ-0502000W2-EU
Details of Power Supply (Rated Input)	AC100-240V, 50/60Hz, 0.3A
Details of Power Supply (Rated Output)	DC5V, 2000mA
Extreme Temperature	Low Temperature (TL) = -10°C High Temperature (TH) = +40°C
Extreme Voltage of the EUT	Low Voltage = DC 3.40V Normal Voltage = DC 3.85V High Voltage = DC 4.40V

**Note:** The Limit Voltage 4.40V was declared by manufacturer,  
The EUT couldn't be operate normally with higher voltage.

The maximum temperature of 40°C is not a standard requirement and is measured according to the maximum service temperature stated by the manufacturer.

### 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



#### 5.4. TEST RESULTS LIST

##### ETSI EN 301 908-1

Test case	Description	Condition	FDDI		FDDVIII	
			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 301 908-2**

Test case	Description	Condition	FDDI		FDDVIII	
			Sample	Result	Sample	Result
4.2.2	Transmitter Characteristics/Maximum Output Power	NTC	A01	PASS	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	HT/HV	A01	PASS	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	HT/LV	A01	PASS	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	LT/HV	A01	PASS	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	LT/LV	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	NTC	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	HTHV	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	HTLV	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	LT/HV	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	LT/LV	A01	PASS	A01	PASS
4.2.11	Transmitter Characteristics/Output Dynamics in the Uplink/Out-of-synchronization Handling of Output power	NTC	A01	PASS	A01	PASS
4.2.3	Transmitter Characteristics/Spectrum Emission Mask	NTC	A01	PASS	A01	PASS
4.2.3	Transmitter Characteristics/Spectrum Emission Mask-HSDPA&HSUPA	NTC	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	NTC	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio	HT/HV	A01	PASS	A01	PASS


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	(ACLR)					
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	HT/LV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	LT/HV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	LT/LV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	NTC	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	HT/HV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	HT/LV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	LT/HV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	LT/LV	A01	PASS	A01	PASS
4.2.4	Transmitter Characteristics/Spurious Emissions	NTC	A01	PASS	A01	PASS
4.2.6	Receiver Characteristics/Adjacent Channel Selectivity (ACS)	NTC	A01	PASS	A01	PASS
4.2.7	Receiver Characteristics/Blocking Characteristics	NTC	A01	PASS	A01	PASS
4.2.8	Receiver Characteristics/Spurious Response	NTC	A01	PASS	A01	PASS
4.2.9	Receiver Characteristics /Intermodulation Characteristics	NTC	A01	PASS	A01	PASS

4.2.10	Receiver Characteristics/Spurious Emissions	NTC	A01	PASS	A01	PASS
4.2.13	Receiver Reference Sensitivity level	NTC	A01	PASS	A01	PASS

Note: All the SIM Cards had been tested, but the worst test result is SIM Card 1 and recorded in the test report.



## Appendix A. Transmitter maximum output power

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

Operating Band	Test Conditions	Test Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	24.14	24(+1.7/-3.7)	Pass
		MCH	24.24	24(+1.7/-3.7)	Pass
		HCH	24.35	24(+1.7/-3.7)	Pass
Band VIII	TNVN	LCH	23.88	24(+1.7/-3.7)	Pass
		MCH	23.82	24(+1.7/-3.7)	Pass
		HCH	24.15	24(+1.7/-3.7)	Pass





## Appendix B. Transmitter minimum output power

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

Operating Band	Test Conditions	Test Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	-54.91	-49	Pass
		MCH	-55.03	-49	Pass
		HCH	-55.02	-49	Pass
Band VIII	TNVN	LCH	-55.34	-49	Pass
		MCH	-55.80	-49	Pass
		HCH	-55.41	-49	Pass



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## Appendix C. Transmitter spectrum emission mask

### BAND I

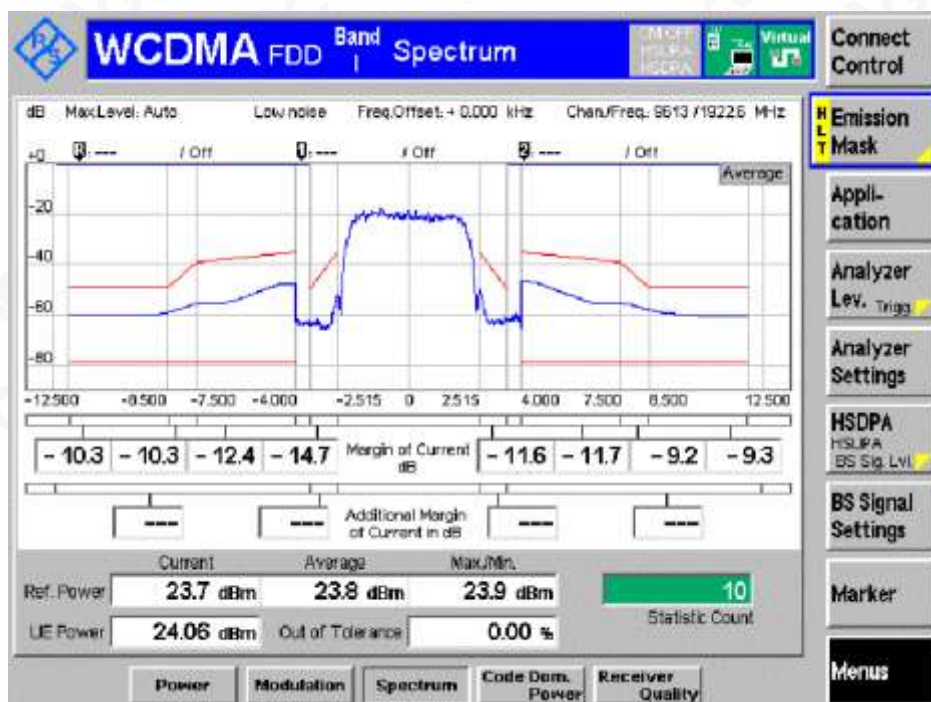
Operating Band	Test Conditions	$\Delta f$ in MHz	Test Channel		
			LCH	MCH	HCH
Band I	TNVN	2.5-3.5	PASS	PASS	PASS
		3.5-7.5			
		7.5-8.5			
		8.5-12.5 MHz			

### BAND VIII

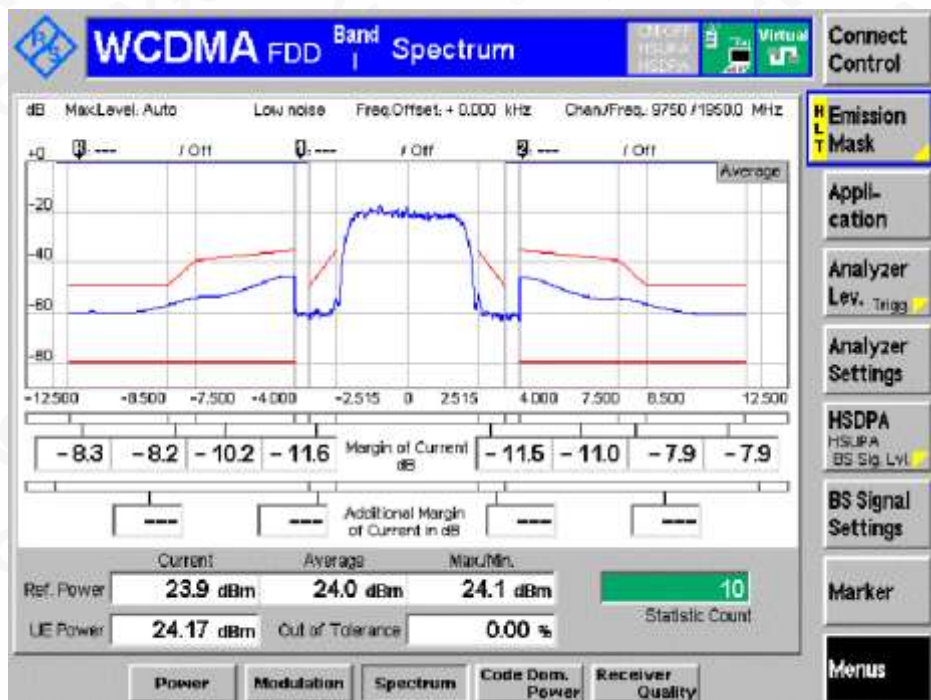
Operating Band	Test Conditions	$\Delta f$ in MHz	Test Channel		
			LCH	MCH	HCH
Band VIII	TNVN	2.5-3.5	PASS	PASS	PASS
		3.5-7.5			
		7.5-8.5			
		8.5-12.5 MHz			

## BAND I

### Channel LCH

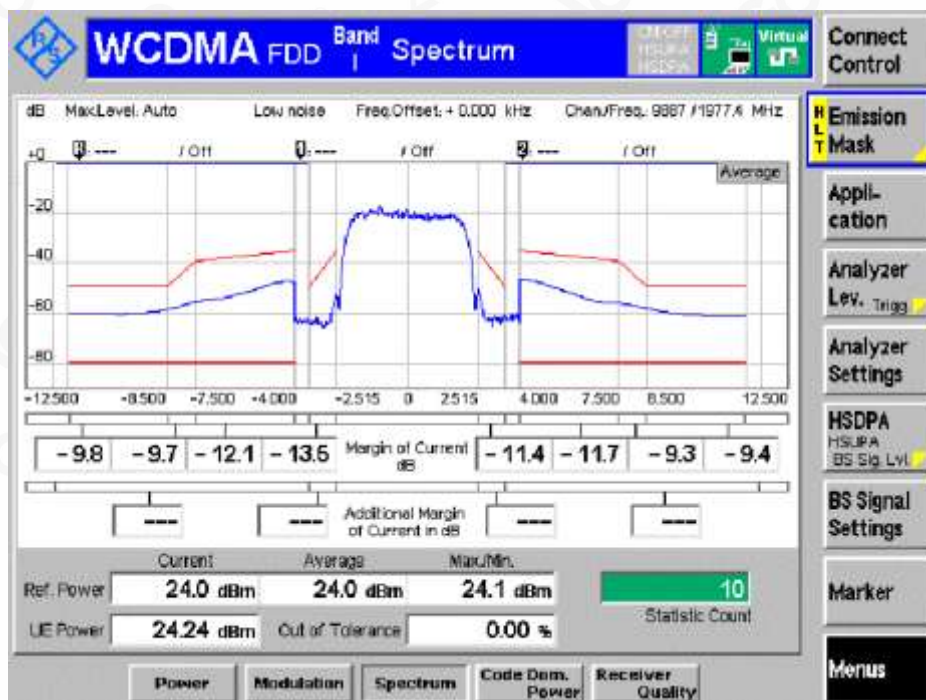


### Channel MCH



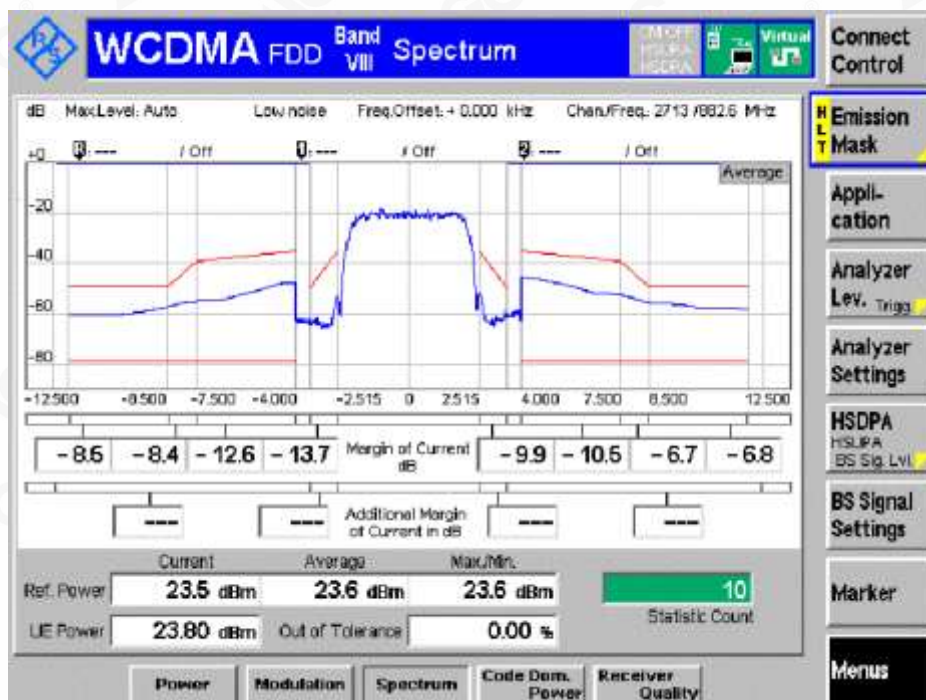


## Channel HCH



## BAND VIII

## Channel LCH



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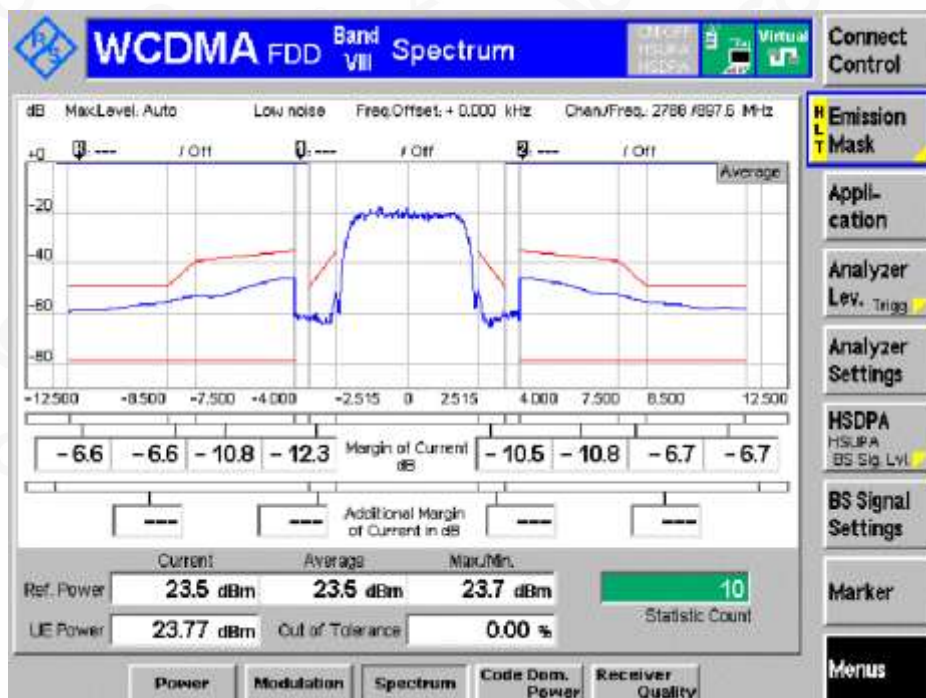
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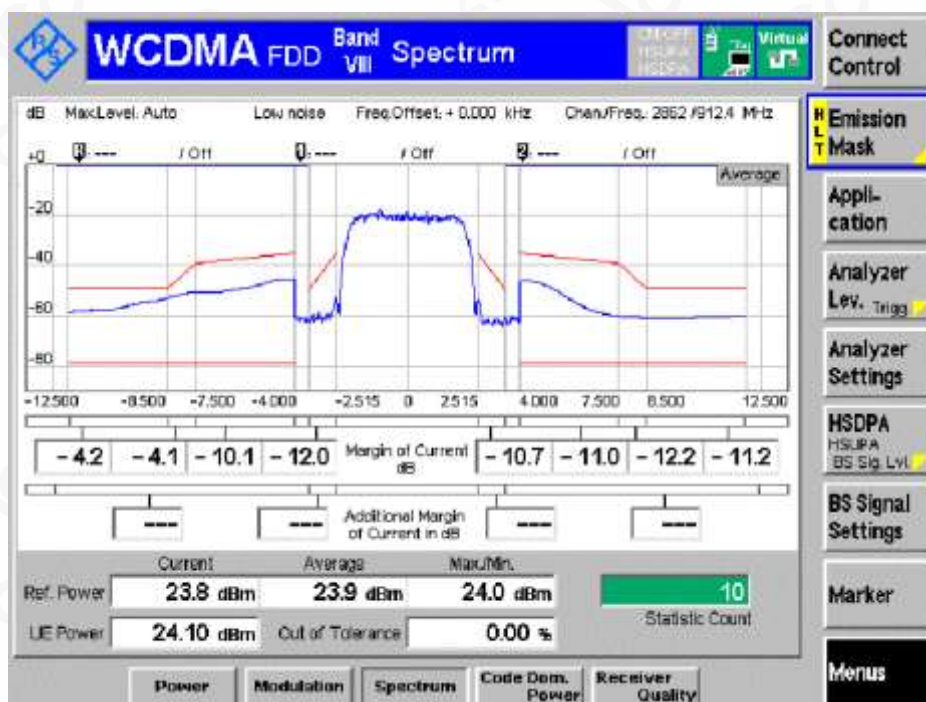
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## Channel MCH



## Channel HCH



#### Appendix D. Transmitter adjacent channel leakage power ratio

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

Operating Band	Test Conditions	Test Channel	UE Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	+5MHz	-43.66	-32.2	Pass
			-5 MHz	-44.34	-32.2	Pass
			-10 MHz	-54.61	-42.2	Pass
			+10 MHz	-54.39	-42.2	Pass
		MCH	+5MHz	-43.02	-32.2	Pass
			-5 MHz	-42.04	-32.2	Pass
			-10 MHz	-53.79	-42.2	Pass
			+10 MHz	-53.68	-42.2	Pass
		HCH	+5MHz	-43.63	-32.2	Pass
			-5 MHz	-44.07	-32.2	Pass
			-10 MHz	-54.46	-42.2	Pass
			+10 MHz	-54.62	-42.2	Pass
Band VIII	TNVN	LCH	+5MHz	-42.79	-32.2	Pass
			-5 MHz	-45.19	-32.2	Pass
			-10 MHz	-53.85	-42.2	Pass
			+10 MHz	-51.57	-42.2	Pass
		MCH	+5MHz	-42.66	-32.2	Pass
			-5 MHz	-43.20	-32.2	Pass
			-10 MHz	-51.78	-42.2	Pass
			+10 MHz	-51.60	-42.2	Pass
		HCH	+5MHz	-42.56	-32.2	Pass
			-5 MHz	-40.56	-32.2	Pass
			-10 MHz	-50.10	-42.2	Pass
			+10 MHz	-55.40	-42.2	Pass

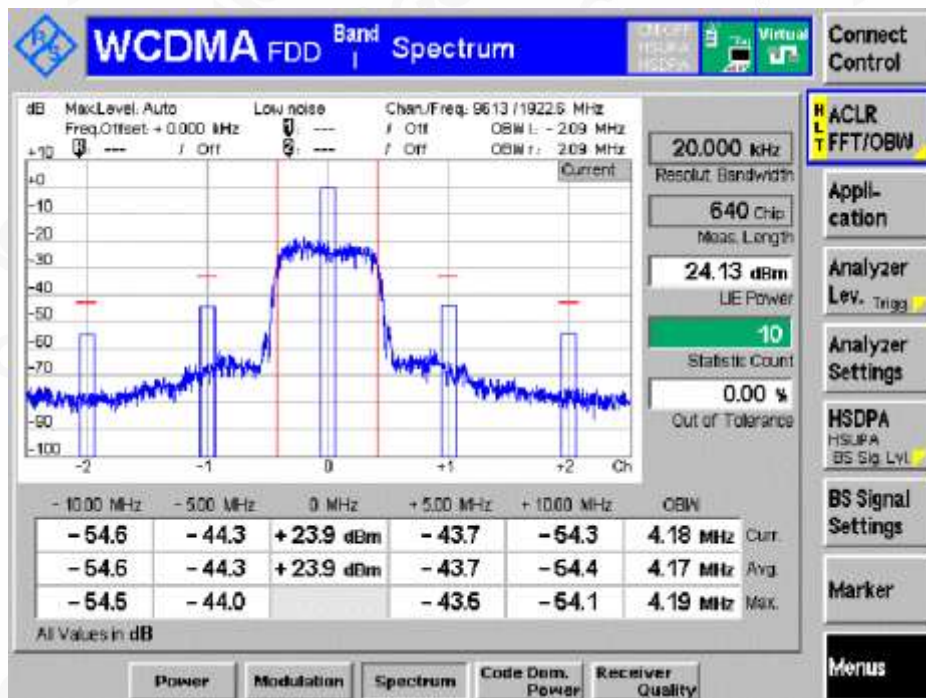




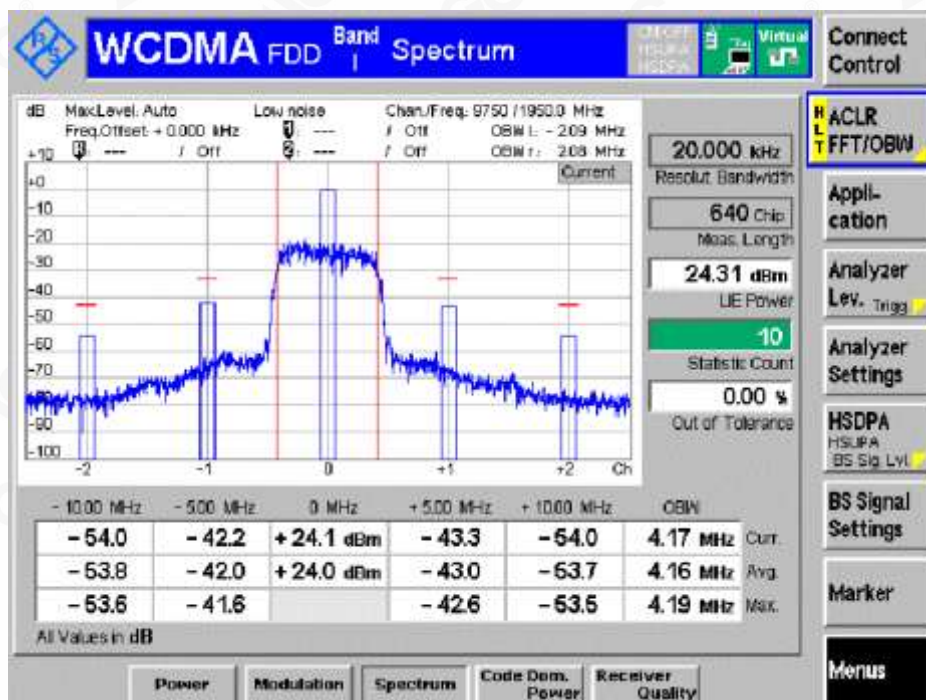
## BAND I

## TNPN

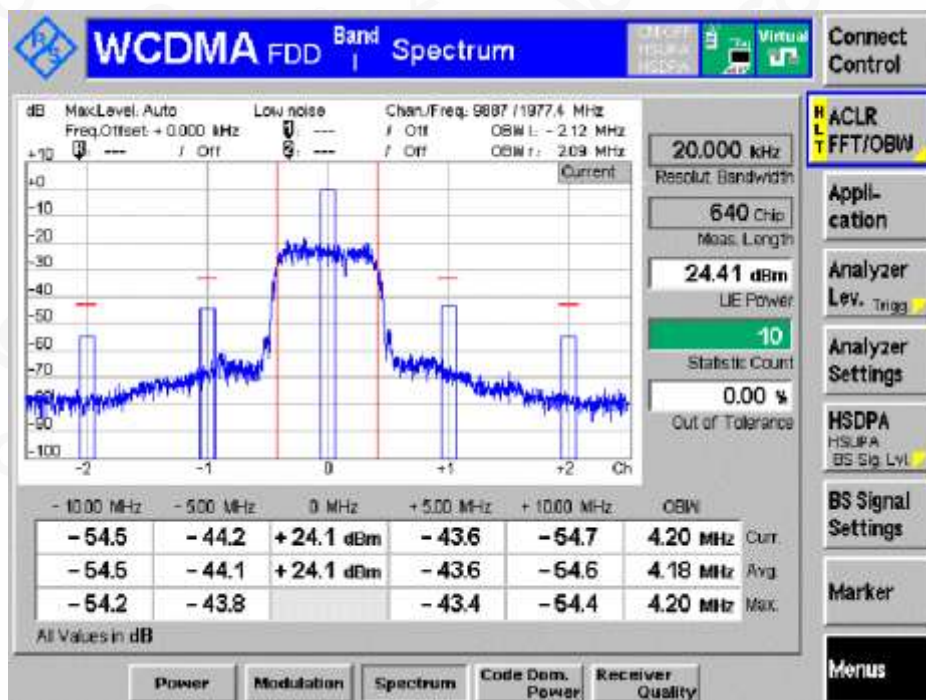
## Channel LCH



## Channel MCH



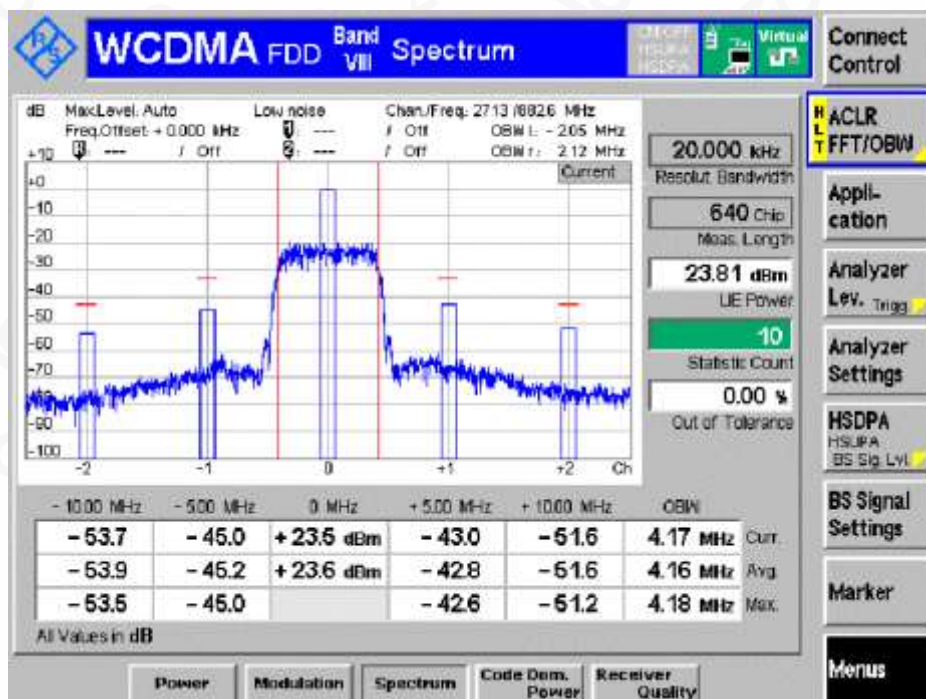
## Channel HCH



## BAND VIII

## TNVI

## Channel LCH



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

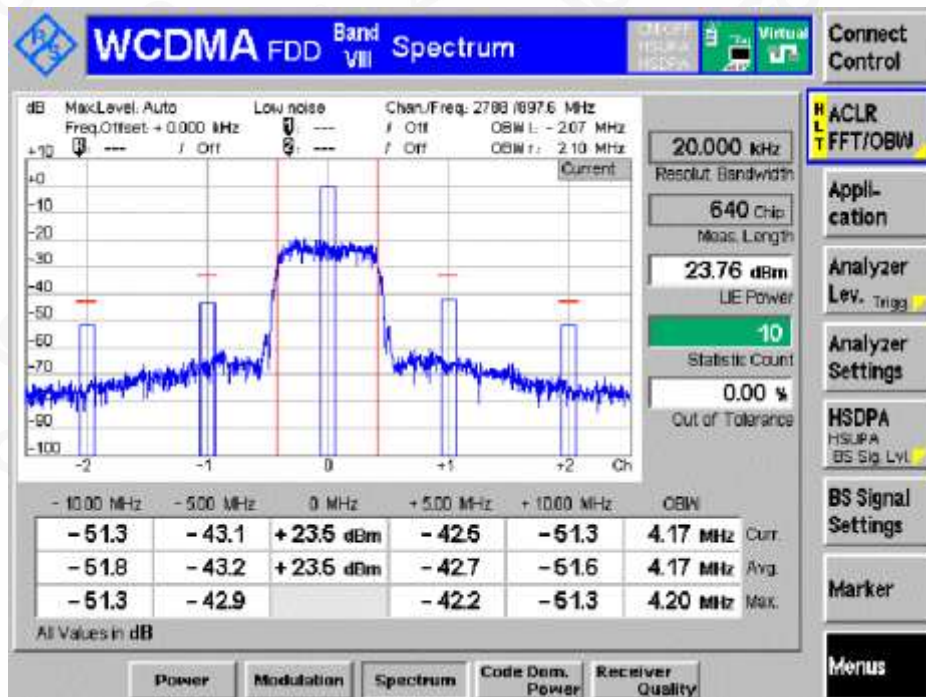
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

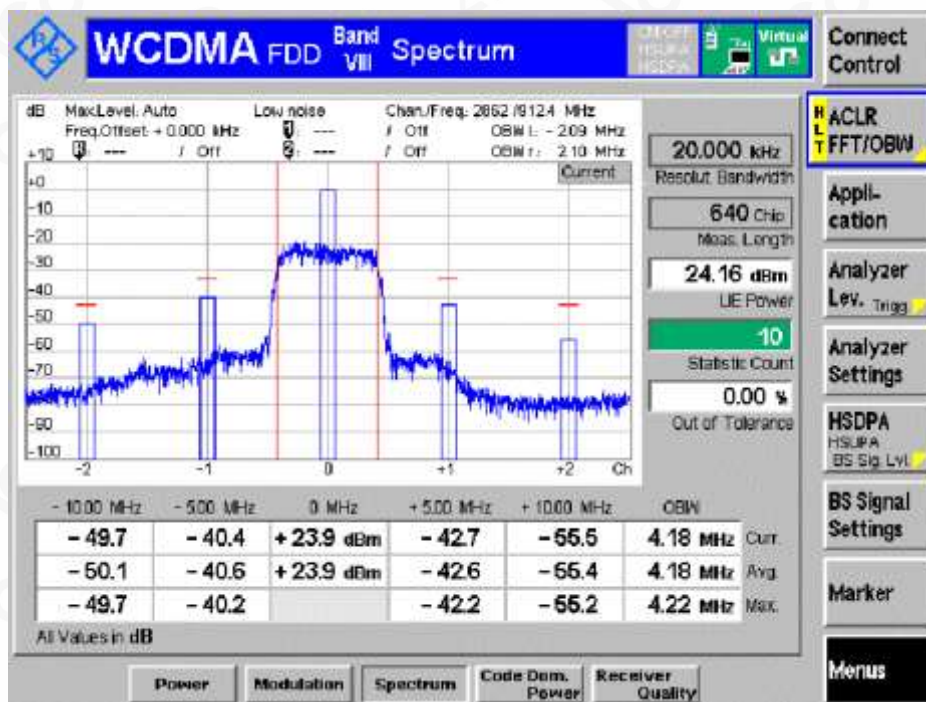
Service Hotline: 400 089 2118



## Channel MCH



## Channel HCH



### Appendix E. Transmitter spurious emissions

Frequency	RBW	Max. Level	Test Band=Band I			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
9 kHz ≤f < 150 kHz	1 kHz	-36	-39.18	-39.77	-40.51	Pass
150 kHz ≤f < 30 MHz	10kHz	-36	-49.33	-48.94	-48.63	Pass
30 MHz ≤f < 1 000 MHz	100kHz	-36	-48.71	-48.97	-48.35	Pass
1 GHz ≤f < 12.750GHz	1 MHz	-30	-41.97	-41.94	-41.94	Pass
791 MHz ≤f ≤821 MHz	3.84MHz	-60	-71.20	-71.19	-71.22	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-67.38	-67.87	-67.73	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-70.49	-70.34	-70.52	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-80.58	-80.58	-80.28	Pass
1 805 MHz ≤f ≤1880 MHz	100 kHz	-71	-80.14	-80.04	-80.11	Pass
2 110 MHz ≤f ≤2170 MHz	3.84MHz	-60	-71.61	-71.57	-71.61	Pass
2 585 MHz ≤f ≤2690 MHz	3.84MHz	-60	-69.85	-69.82	-69.82	Pass



Frequency	RBW	Max. Level (dbm)	Test Band=Band VIII			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
9 kHz ≤f < 150 kHz	1 kHz	-36	-40.59	-41.38	-40.63	Pass
150 kHz ≤f < 30 MHz	10 kHz	-36	-49.31	-46.43	-47.81	Pass
30 MHz ≤f < 1 000 MHz	100kHz	-36	-44.00	-43.33	-44.34	Pass
1 GHz ≤f < 12.75 GHz	1 MHz	-30	-41.73	-41.75	-41.80	Pass
791 MHz ≤f ≤821 MHz	3.84MHz	-60	-71.01	-71.05	-70.97	Pass
925MHz ≤f ≤935 MHz	100 kHz	-67	-69.91	-69.61	-69.84	Pass
	3.84MHz	-60	-71.84	-71.85	-71.88	Pass
935MHz ≤f ≤960 MHz	100KHz	-79	-80.59	-80.53	-80.29	Pass
	3.84MHz	-60	-72.52	-72.58	-72.58	Pass
1805MHz ≤f ≤1830 MHz	100KHz	-71	-80.18	-80.07	-80.20	Pass
	3.84MHz	-60	-71.91	-72.35	-72.42	Pass
1830MHz ≤f ≤1880 MHz	100KHz	-71	-71.11	-80.04	-80.07	Pass
	3.84\MHz	-60	-71.56	-71.96	-72.00	Pass
2110MHz ≤f≤2170MHz	3.84 MHz	-60	-70.97	-71.36	-71.44	Pass
2 585 MHz ≤f ≤2640 MHz	3.84 MHz	-60	-69.31	-69.73	-69.28	Pass
2 640 MHz ≤f ≤2690 MHz	3.84 MHz	-60	-69.33	-69.66	-69.62	Pass

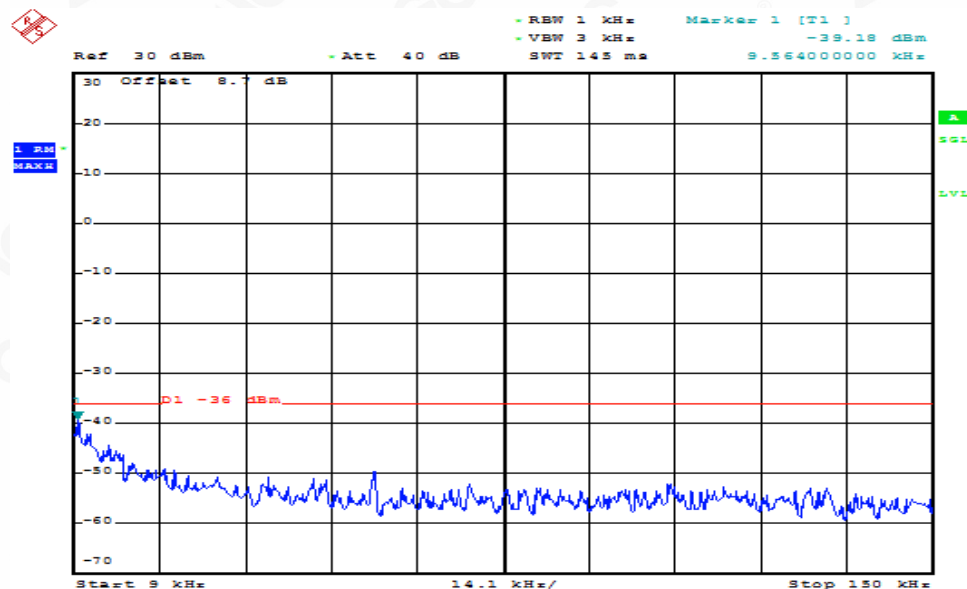




# BAND I

## Channel LCH

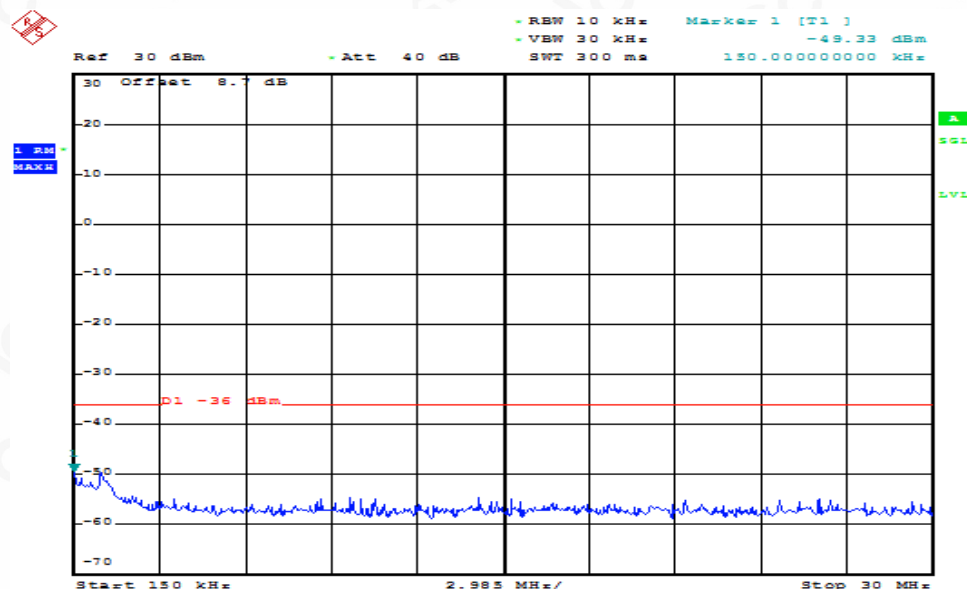
9KHZ~150KHZ



AAA

Date: 16.OCT.2019 12:02:37

150KHZ~30MHZ

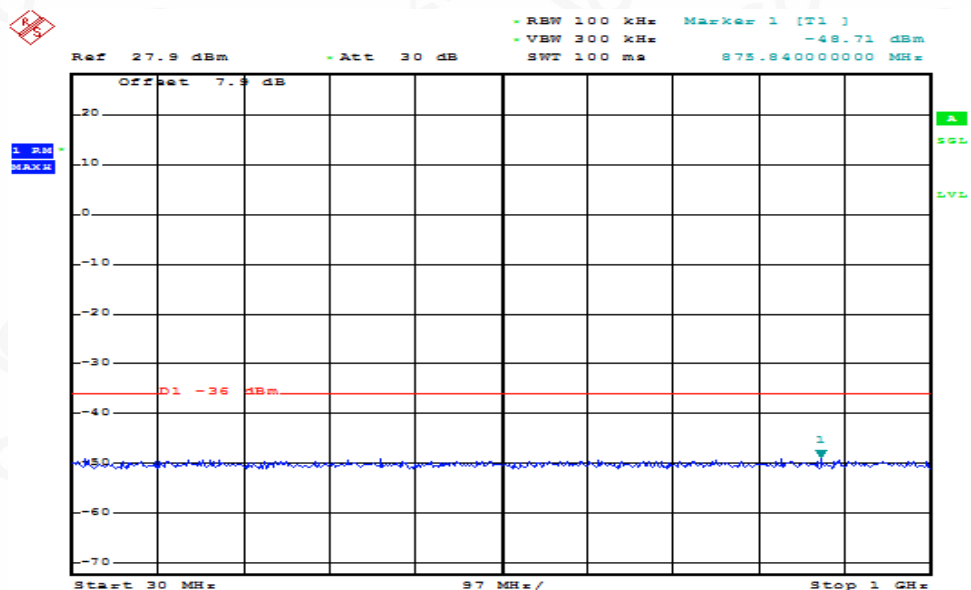


AAA

Date: 16.OCT.2019 12:02:50



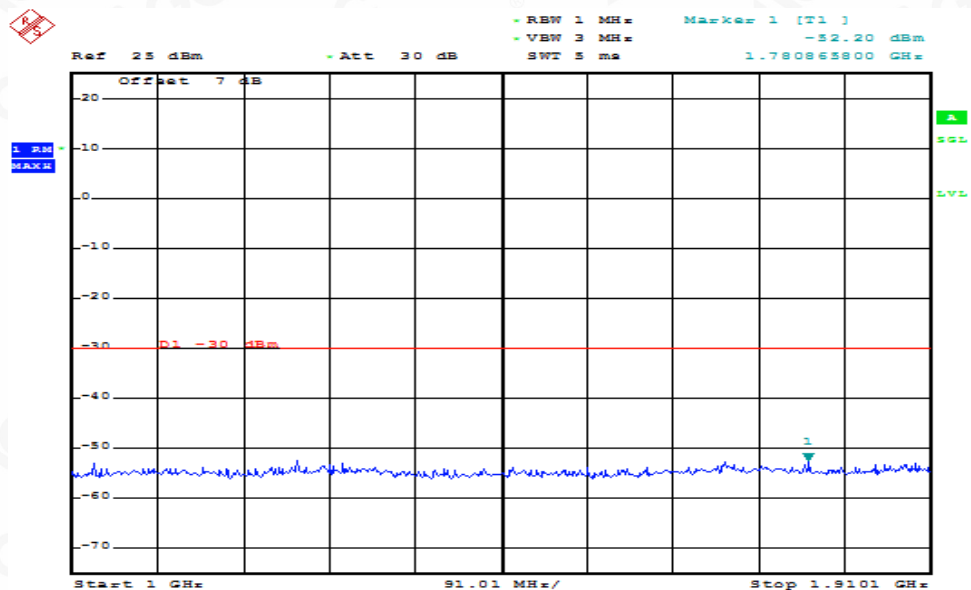
30MHZ~1GHZ



AAA

Date: 16.OCT.2019 12:03:02

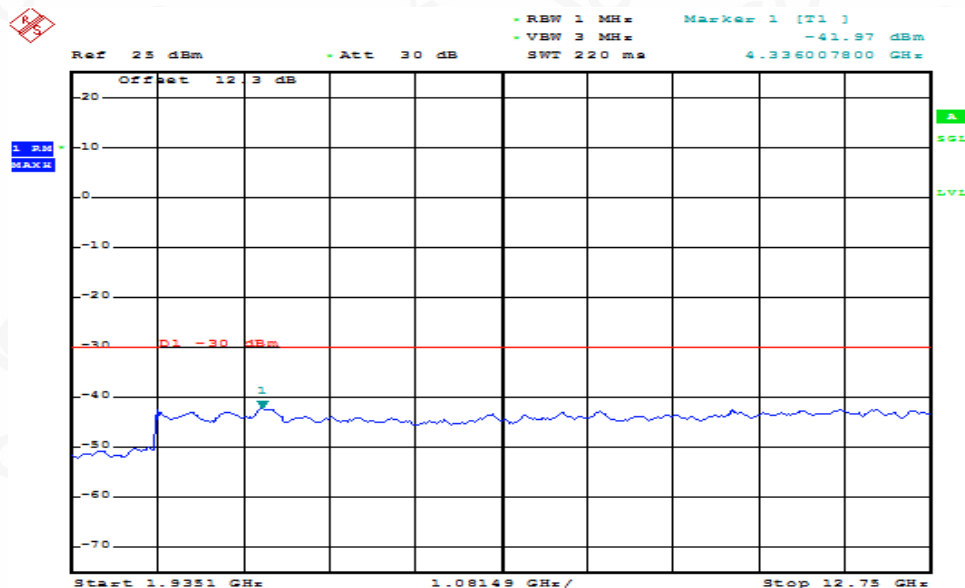
1GHZ~1.9101GHZ



AAA

Date: 16.OCT.2019 12:03:15

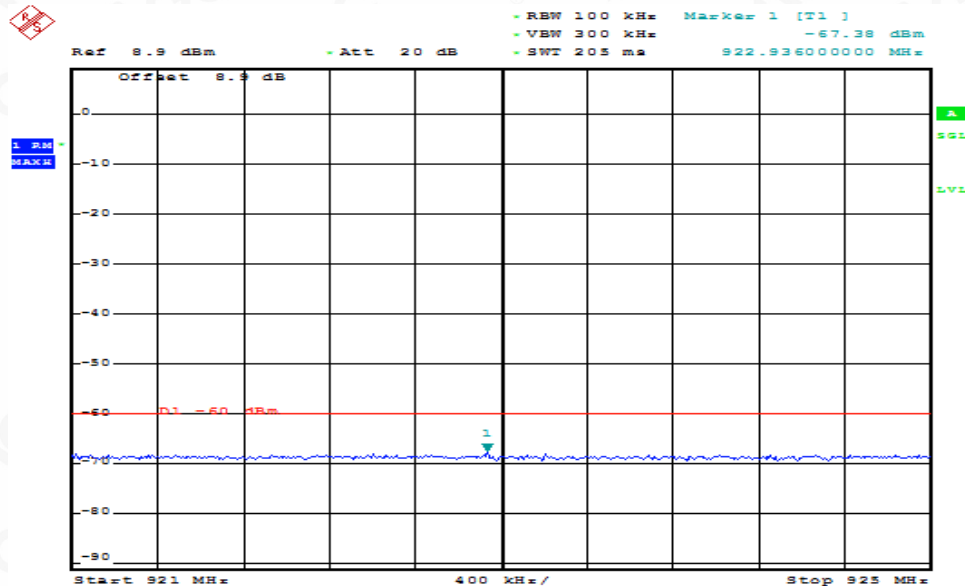
1.9351GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 12:03:27

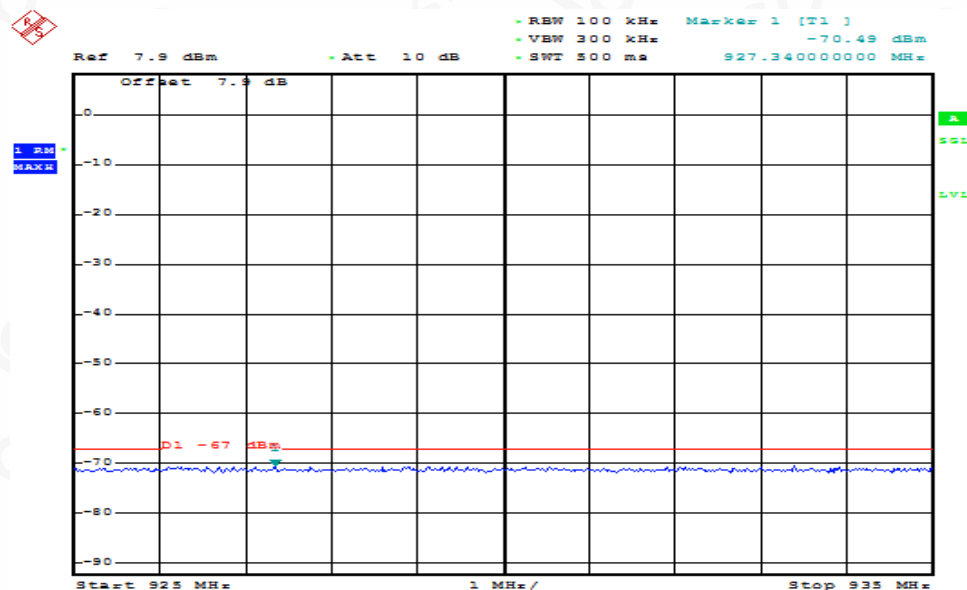
921MHZ~925MHZ



AAA

Date: 16.OCT.2019 12:04:57

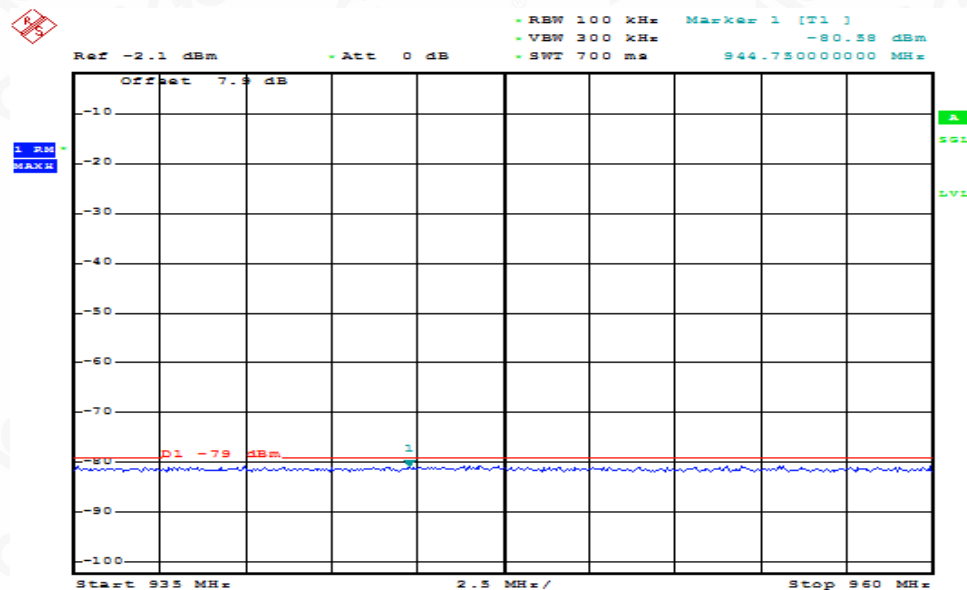
### 925MHZ~935MHZ



AAA

Date: 16.OCT.2019 12:05:32

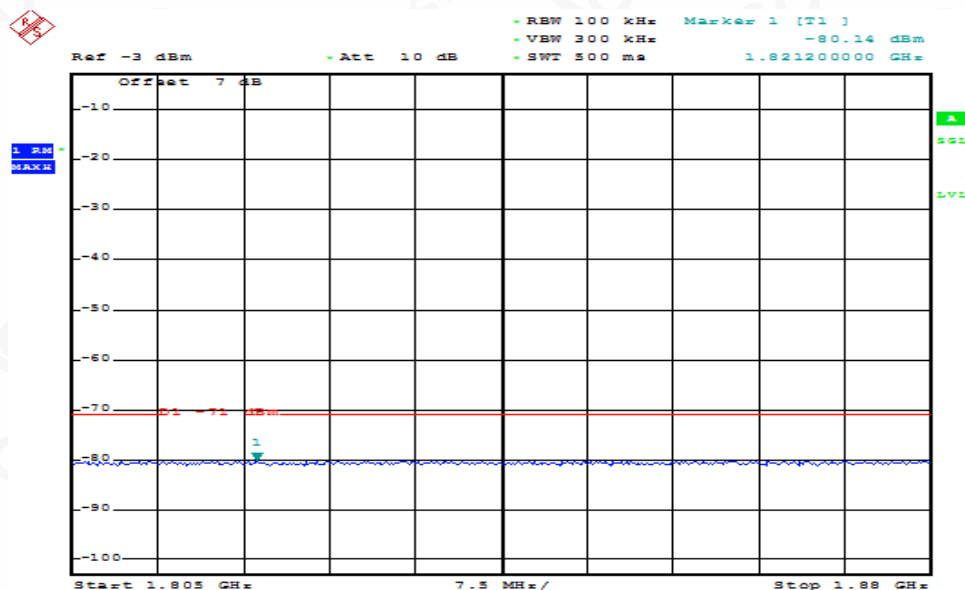
### 935MHZ~960MHZ



AAA

Date: 16.OCT.2019 12:05:55

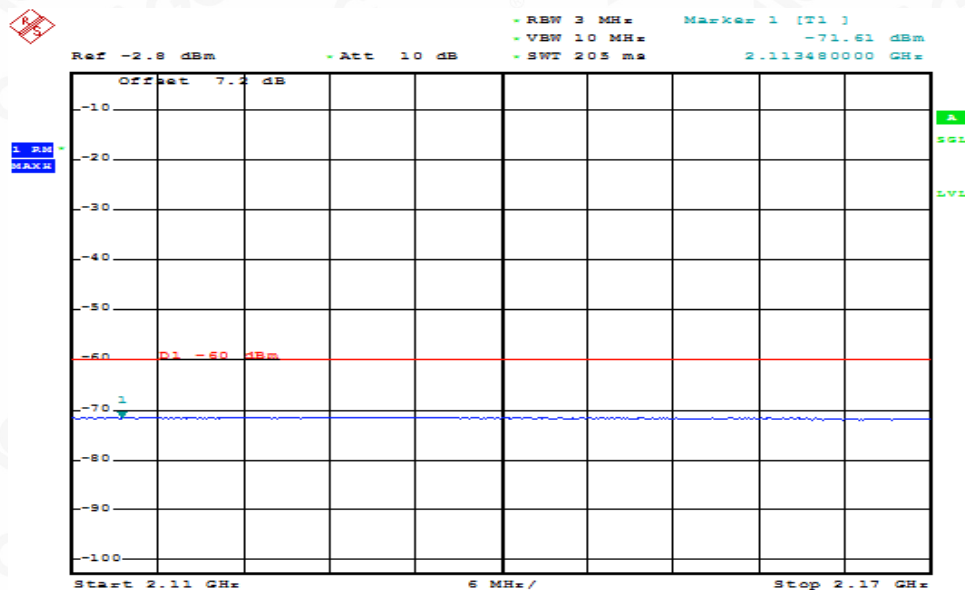
# 1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 12:06:08

# 2110MHZ~2170MHZ

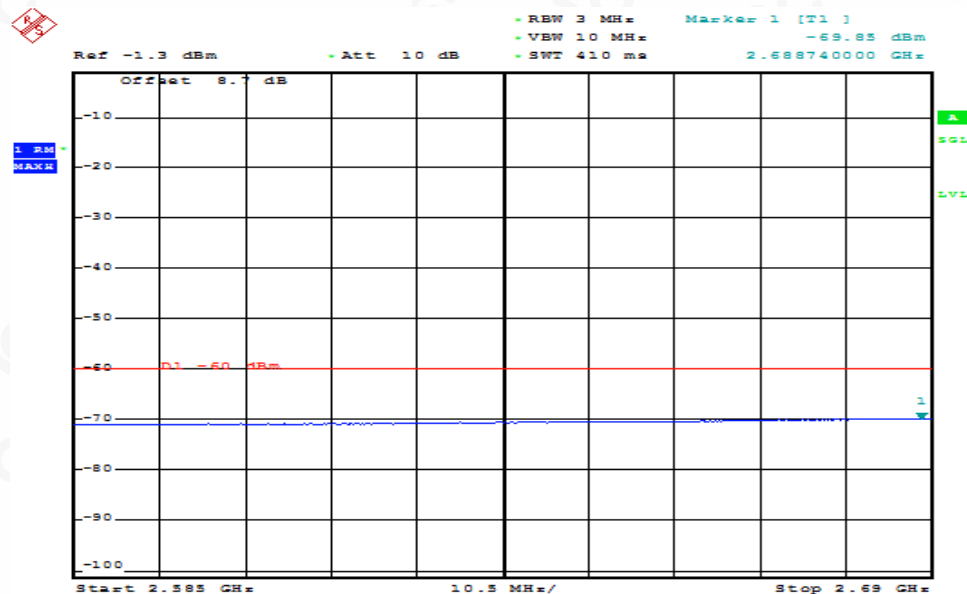


AAA

Date: 16.OCT.2019 12:06:53



2585MHZ~2690MHZ

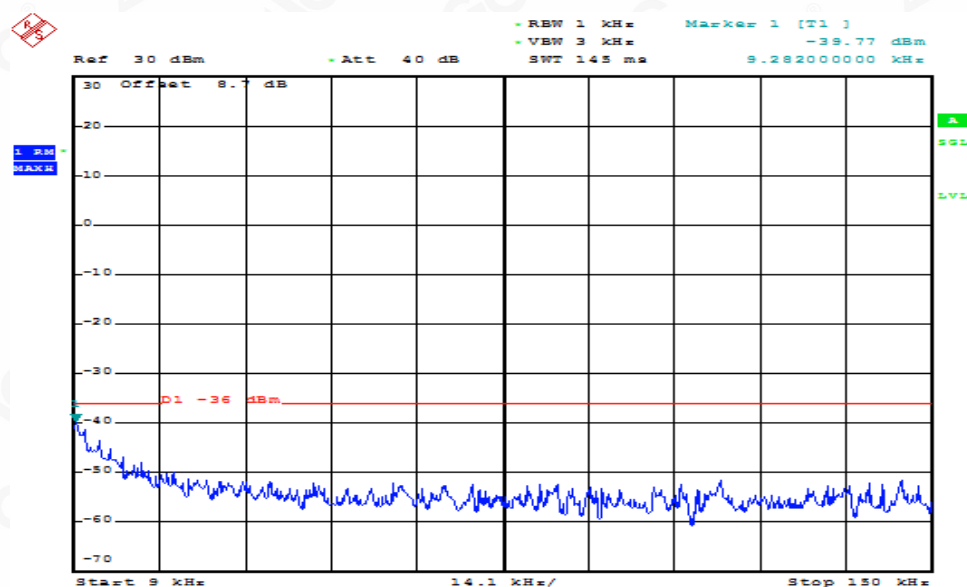


AAA

Date: 16.OCT.2019 12:07:27

Channel MCH

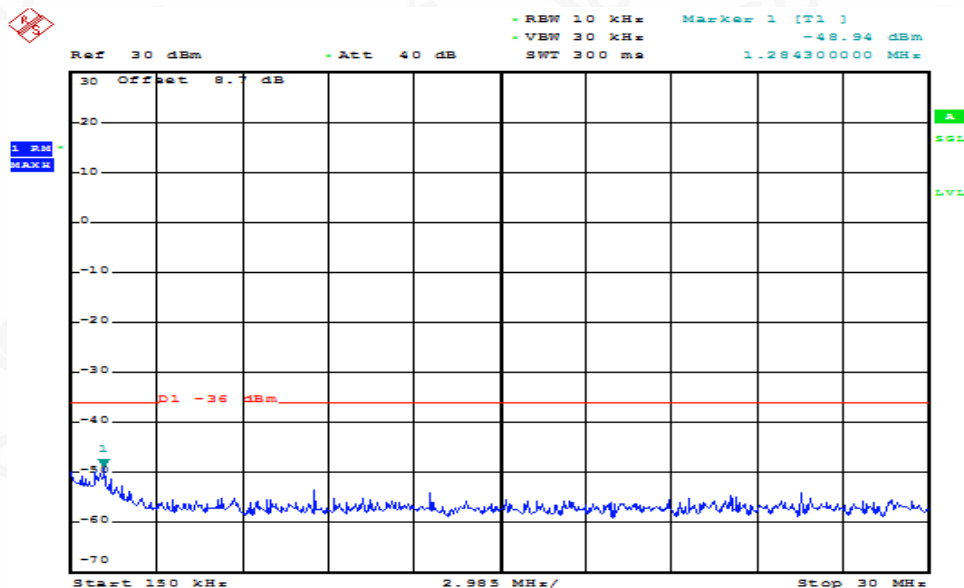
9KHZ~150KHZ



AAA

Date: 16.OCT.2019 12:07:48

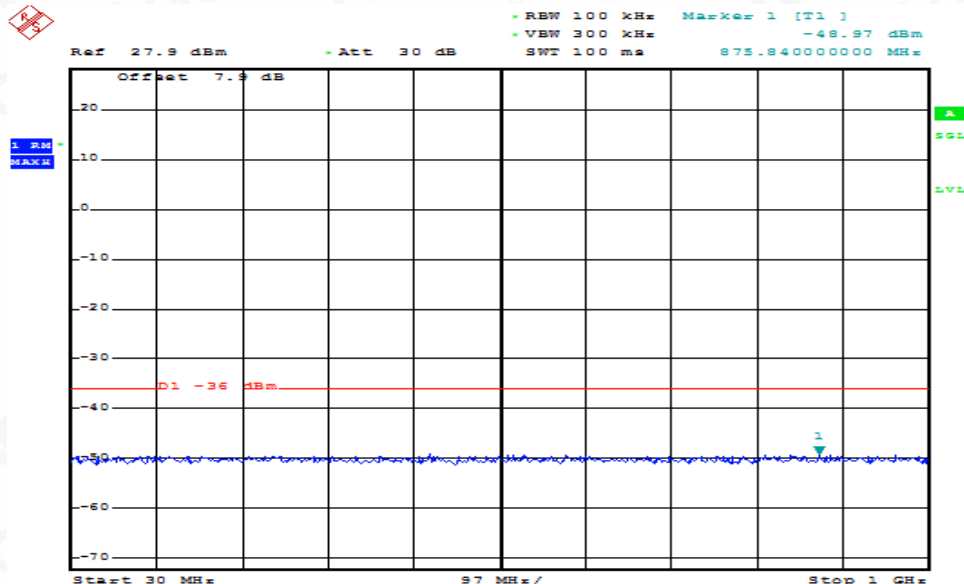
150KHZ~30MHZ



AAA

Date: 16.OCT.2019 12:08:01

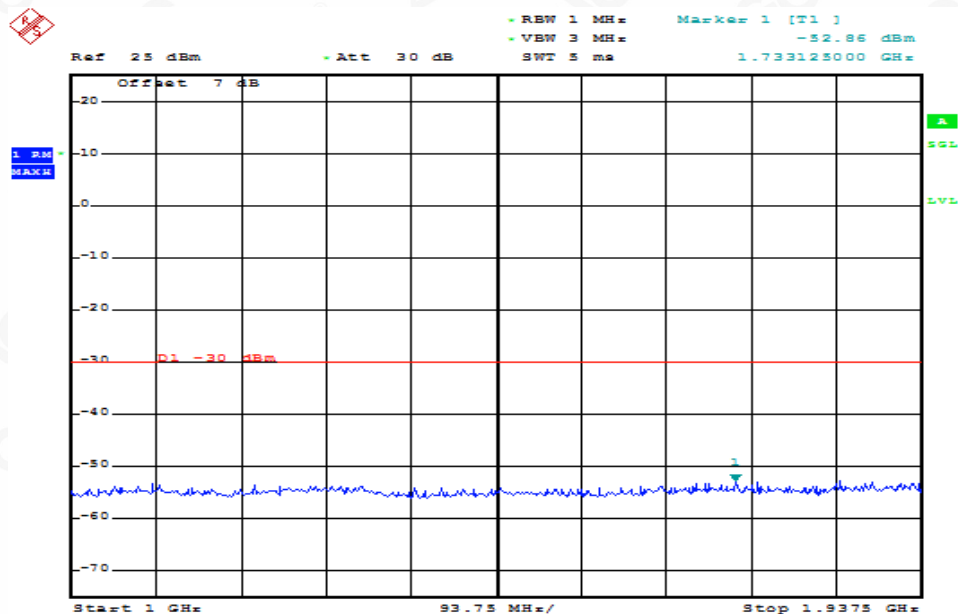
30MHZ~1GHZ



AAA

Date: 16.OCT.2019 12:08:14

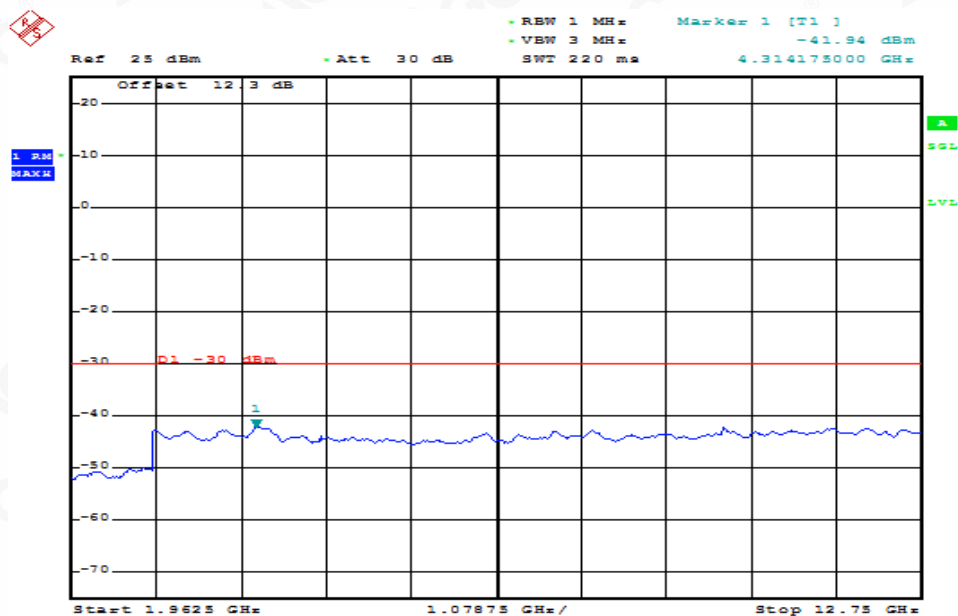
1GHZ~1.9101GHZ



AAA

Date: 16.OCT.2019 12:08:26

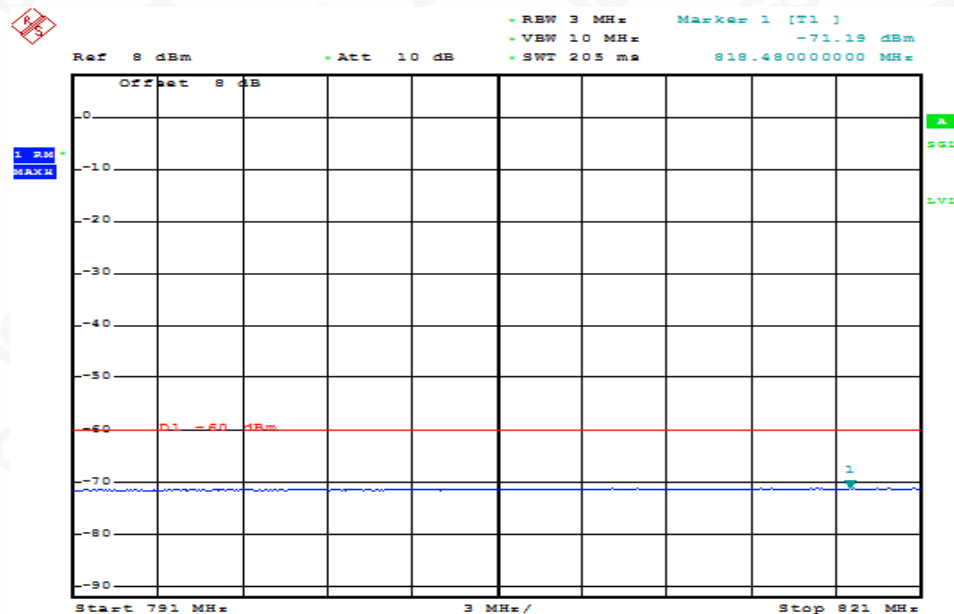
1.9625GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 12:08:39

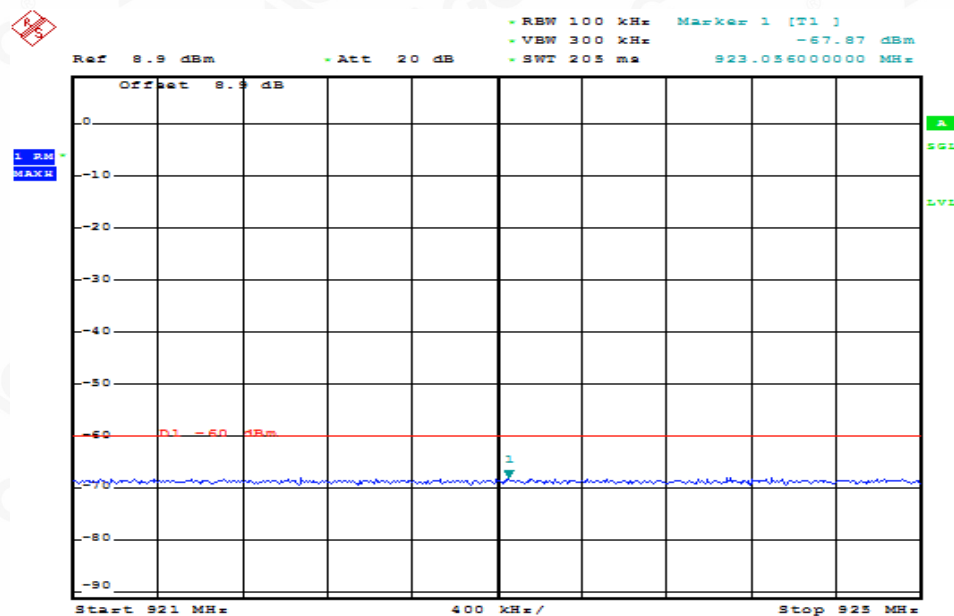
## 791MHZ~821MHZ



AAA

Date: 16.OCT.2019 12:09:24

## 921MHZ~925MHZ

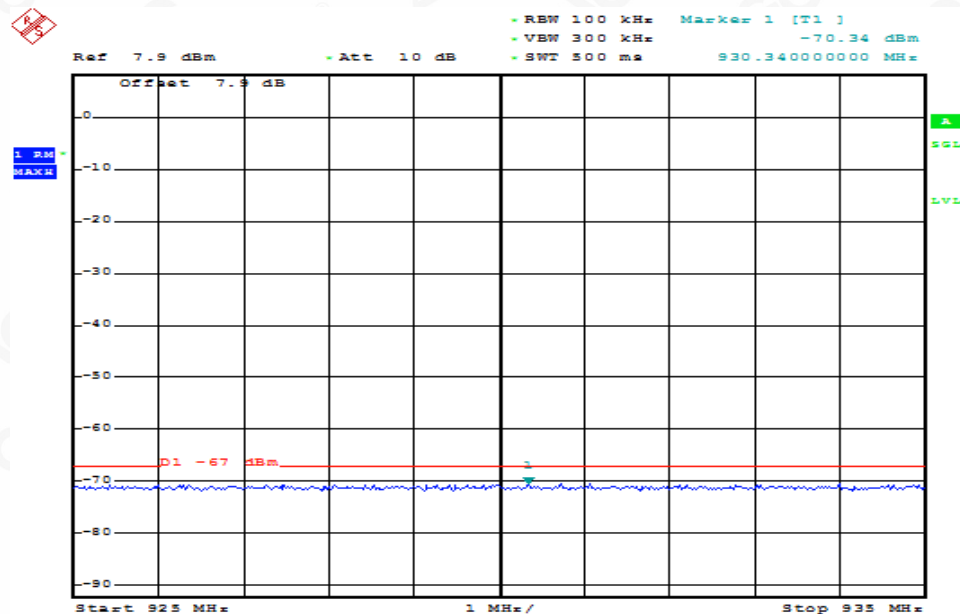


AAA

Date: 16.OCT.2019 12:10:09



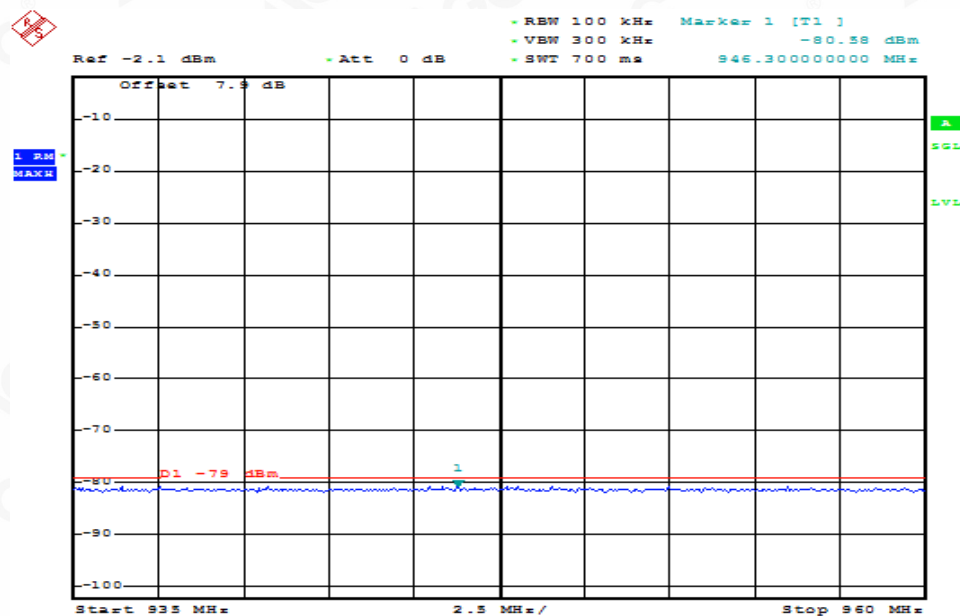
### 925MHZ~935MHZ



AAA

Date: 16.OCT.2019 12:10:43

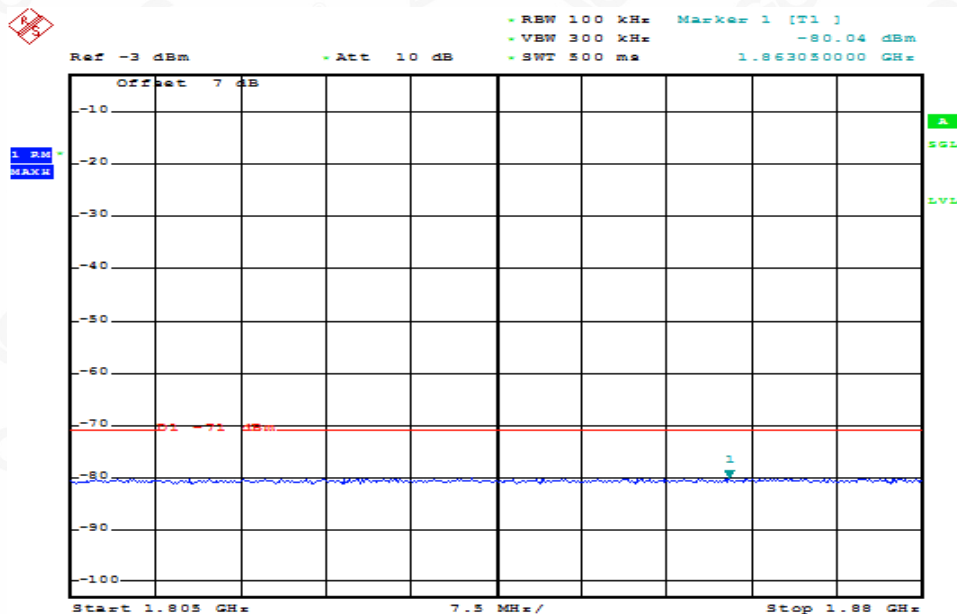
### 935MHZ~960MHZ



AAA

Date: 16.OCT.2019 12:11:07

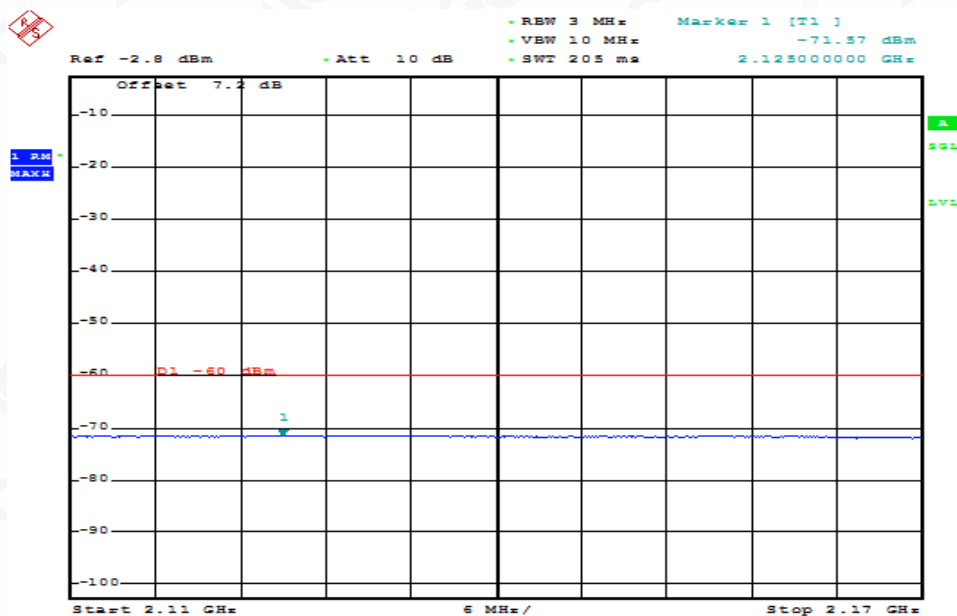
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 12:11:19

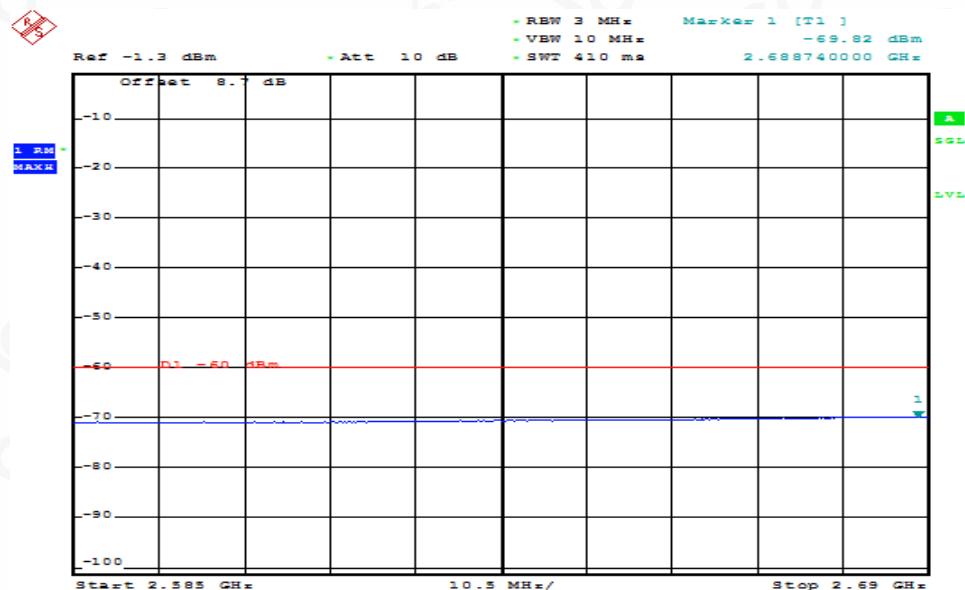
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 12:12:04

2585MHZ~2690MHZ

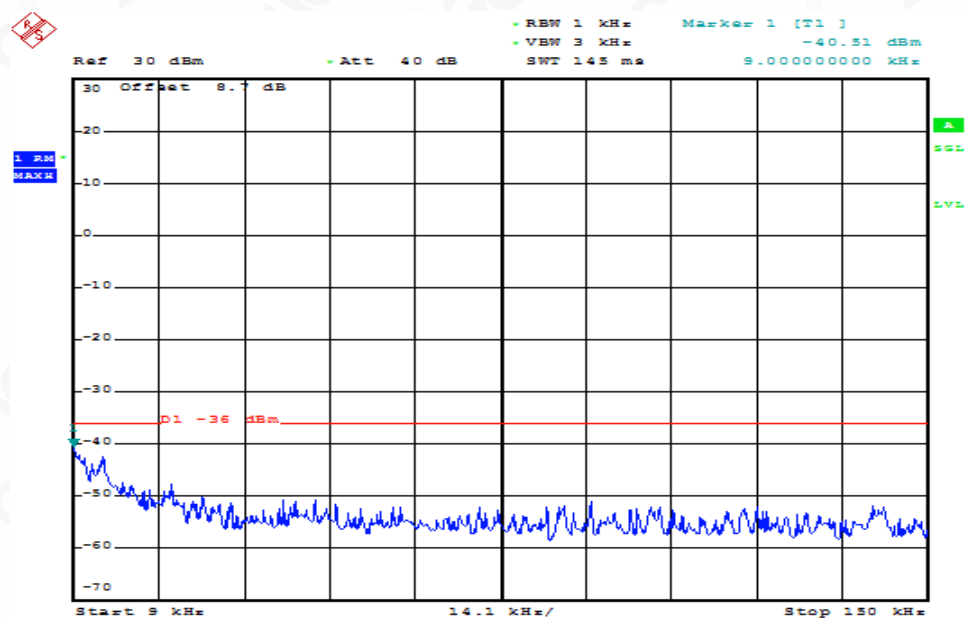


AAA

Date: 16.OCT.2019 12:12:38

Channel HCH

9KHZ~150KHZ

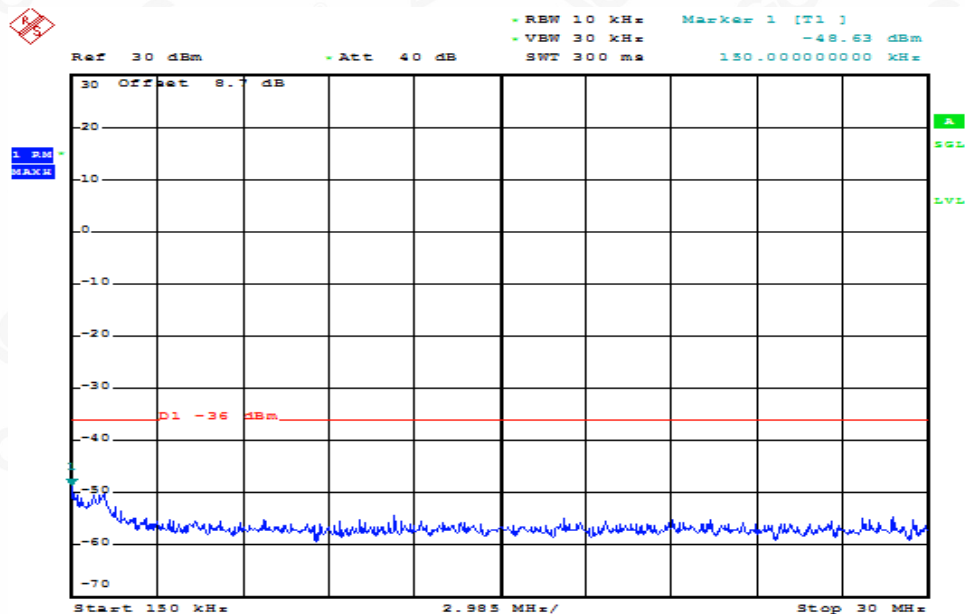


AAA

Date: 16.OCT.2019 12:13:00



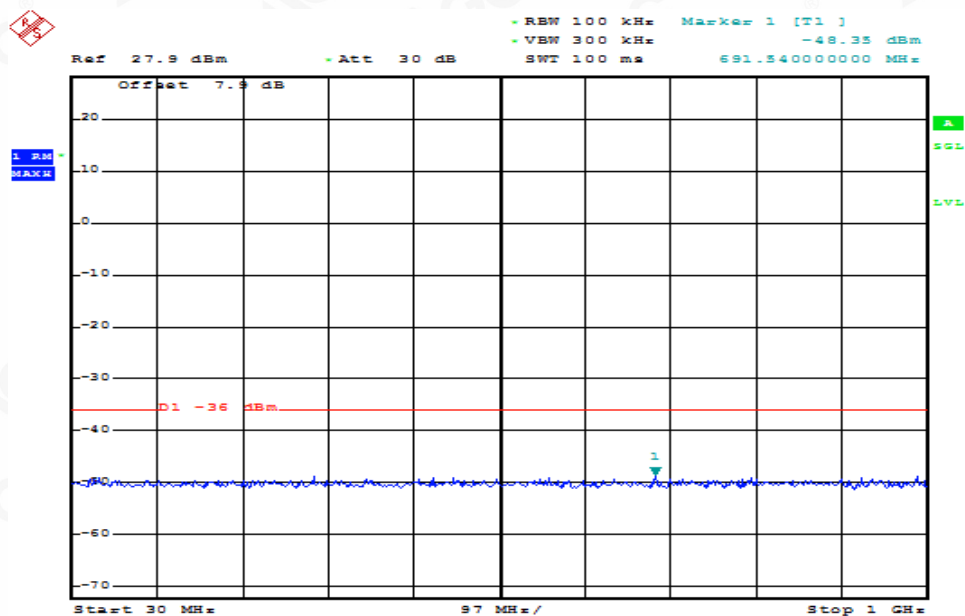
### 150KHZ~30MHZ



AAA

Date: 16.OCT.2019 12:13:12

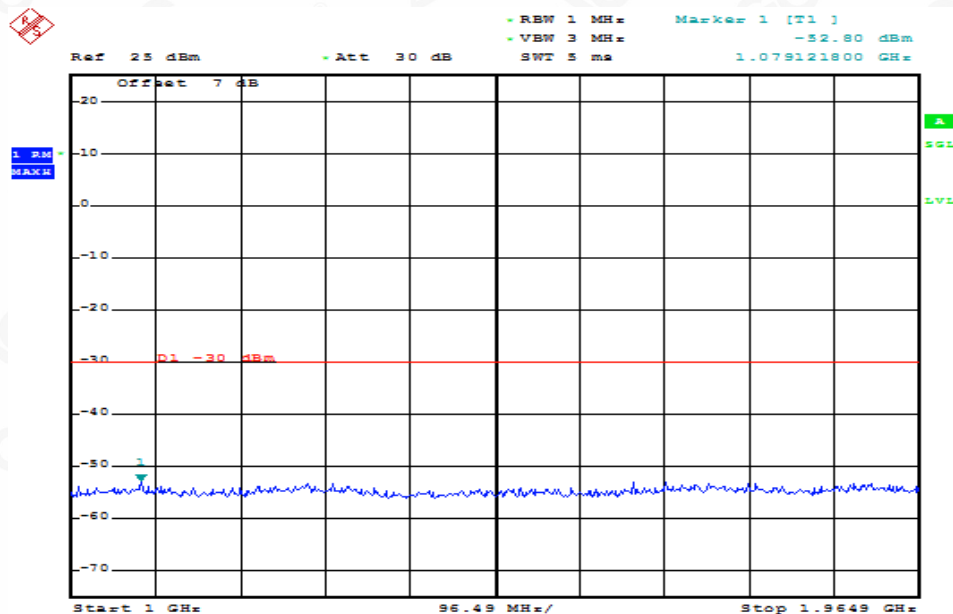
### 30MHZ~1GHZ



AAA

Date: 16.OCT.2019 12:13:25

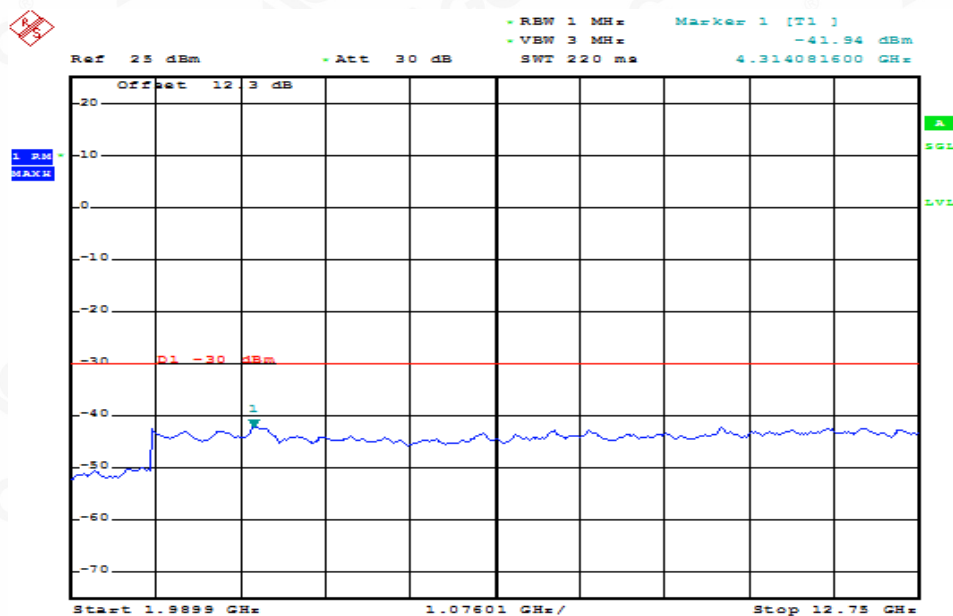
1GHZ~1.9101GHZ



AAA

Date: 16.OCT.2019 12:13:37

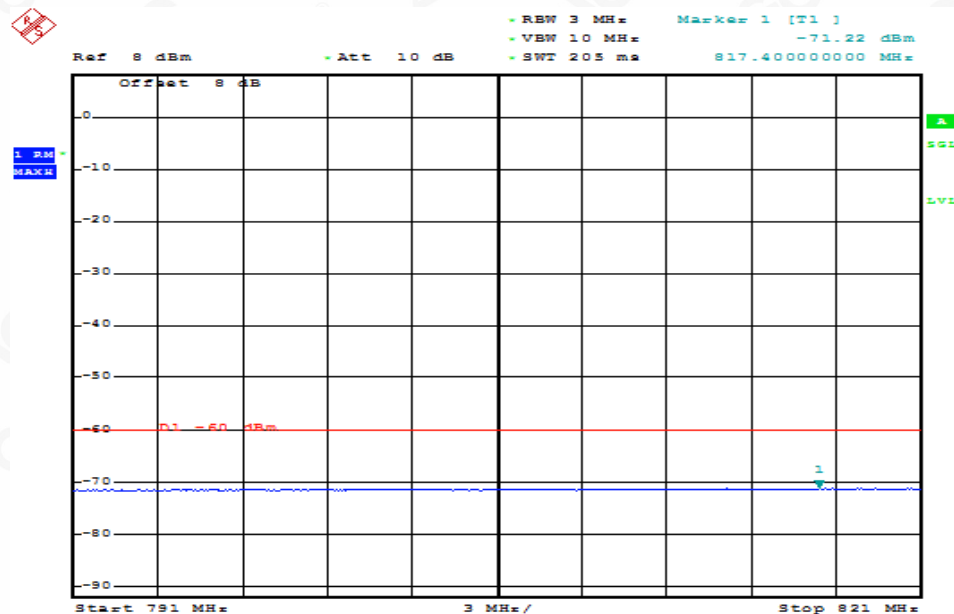
1.9899GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 12:13:50

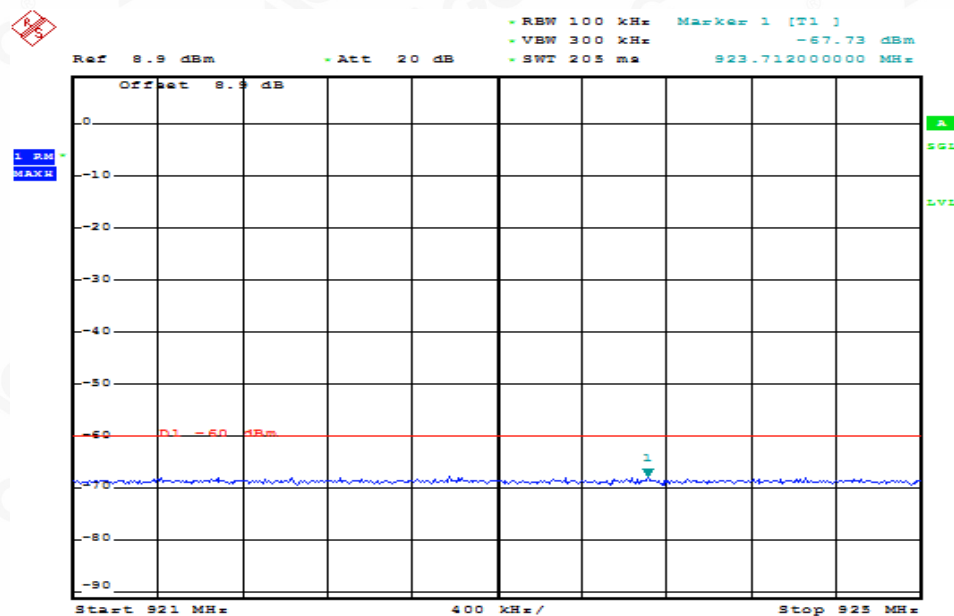
### 791MHZ~821MHZ



AAA

Date: 16.OCT.2019 12:14:35

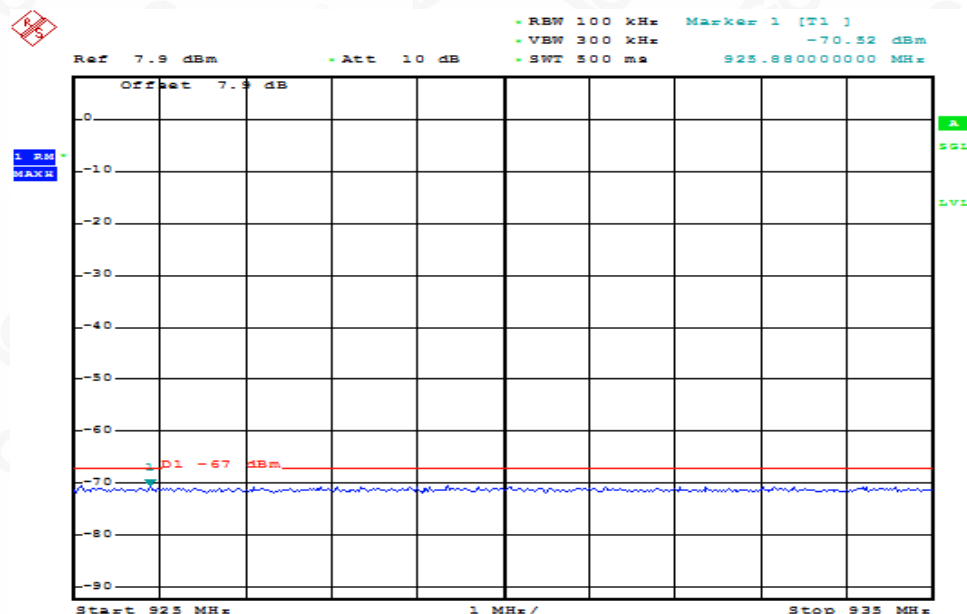
### 921MHZ~925MHZ



AAA

Date: 16.OCT.2019 12:15:20

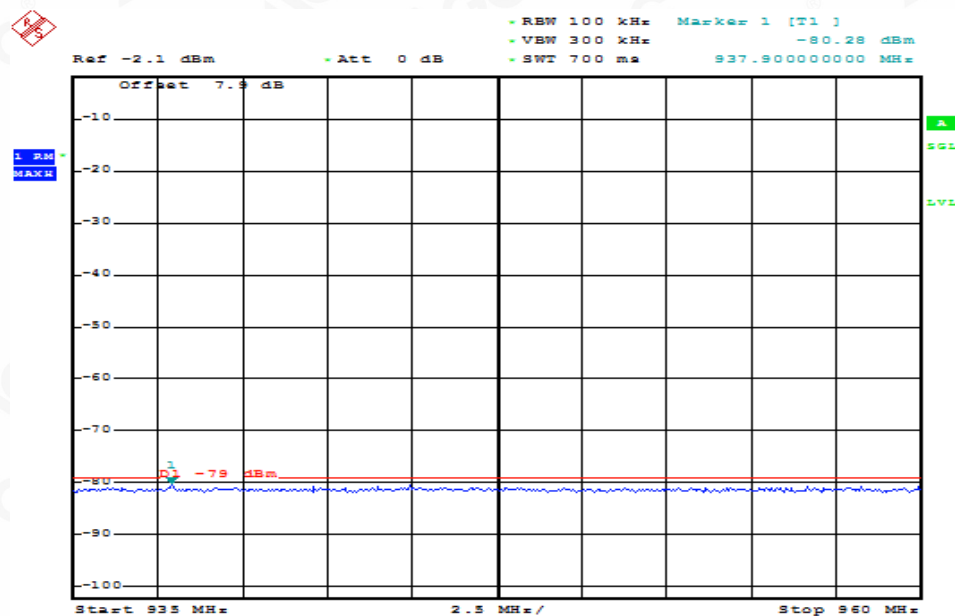
### 925MHZ~935MHZ



AAA

Date: 16.OCT.2019 12:15:54

### 935MHZ~960MHZ

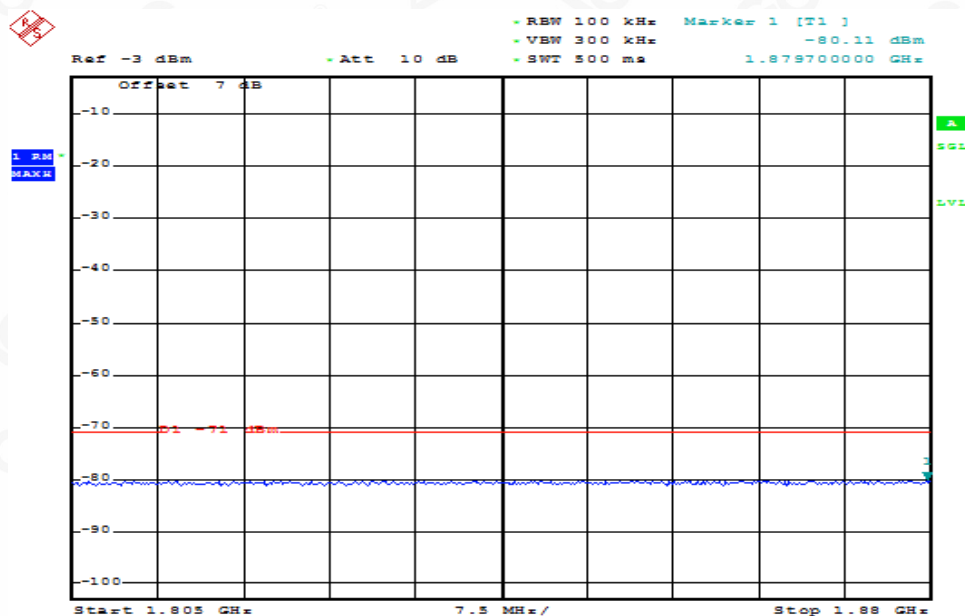


AAA

Date: 16.OCT.2019 12:16:18



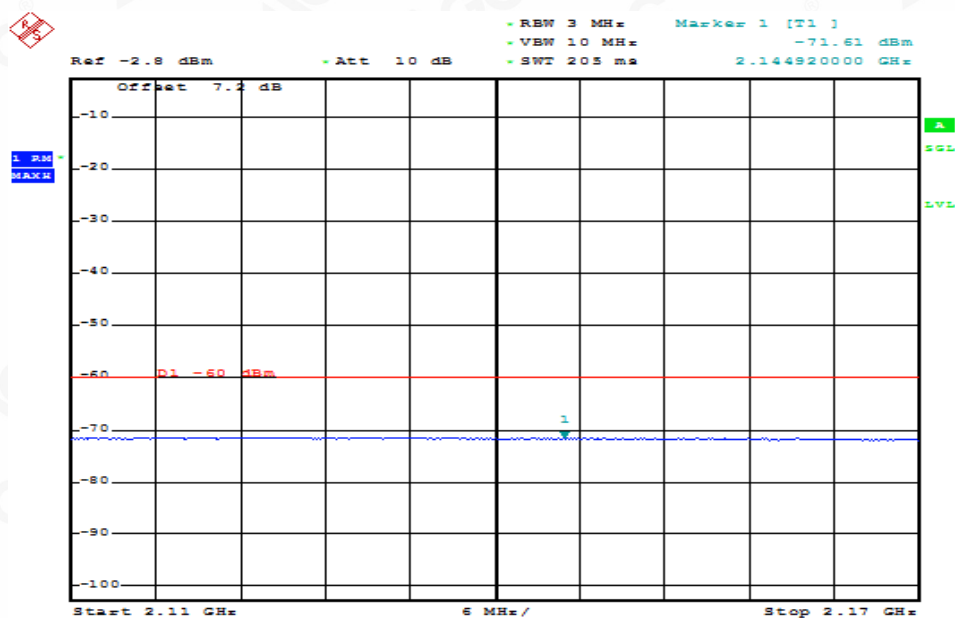
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 12:16:30

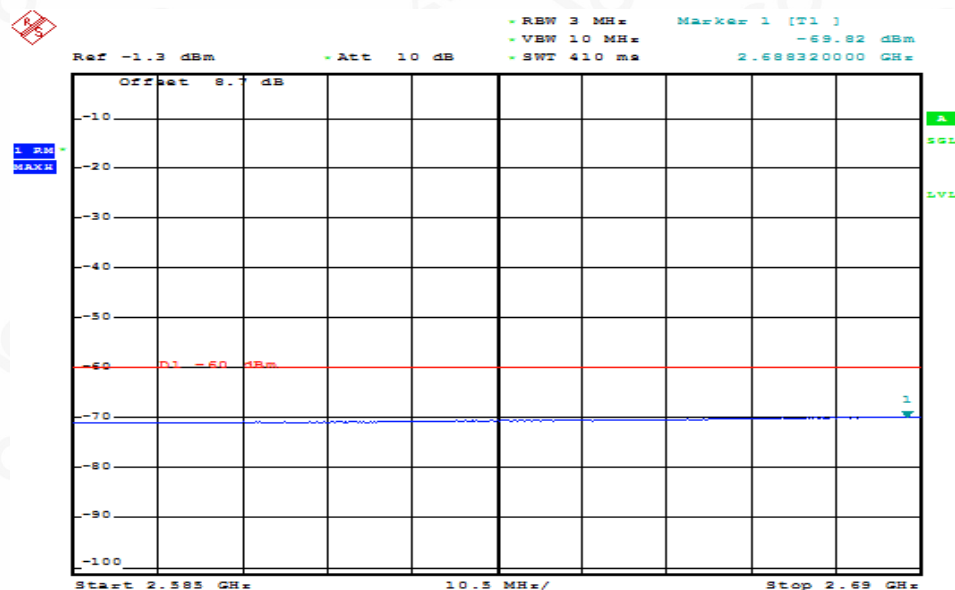
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 12:17:15

2585MHZ~2690MHZ



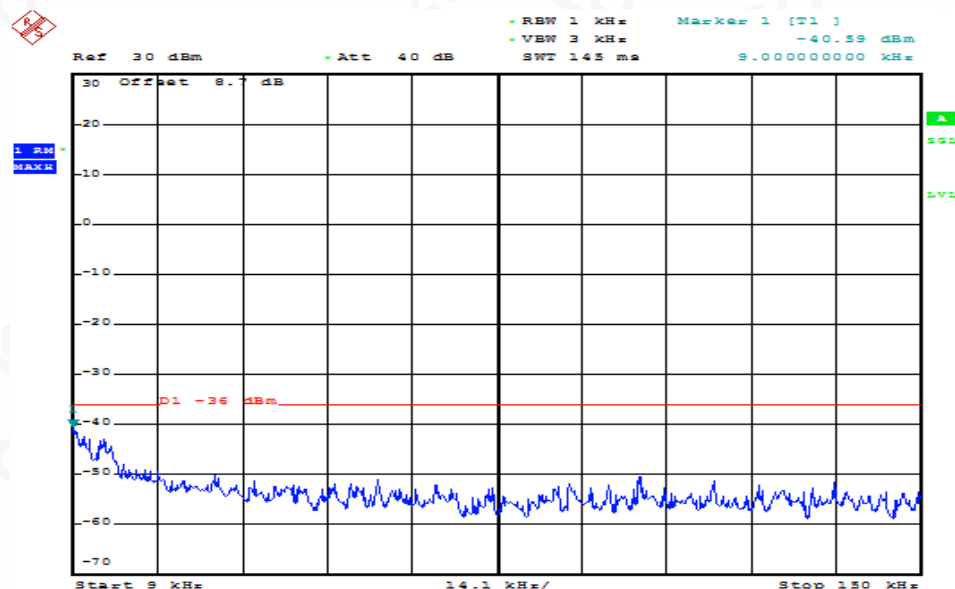
AAA

Date: 16.OCT.2019 12:17:49

BAND VIII

Channel LCH

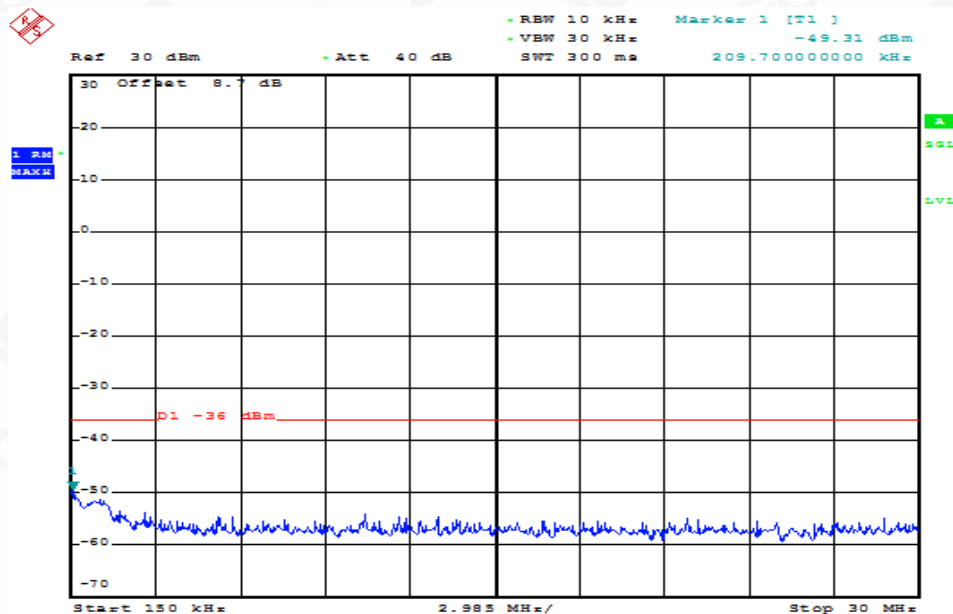
9KHZ~150KHZ



AAA

Date: 17.OCT.2019 09:37:37

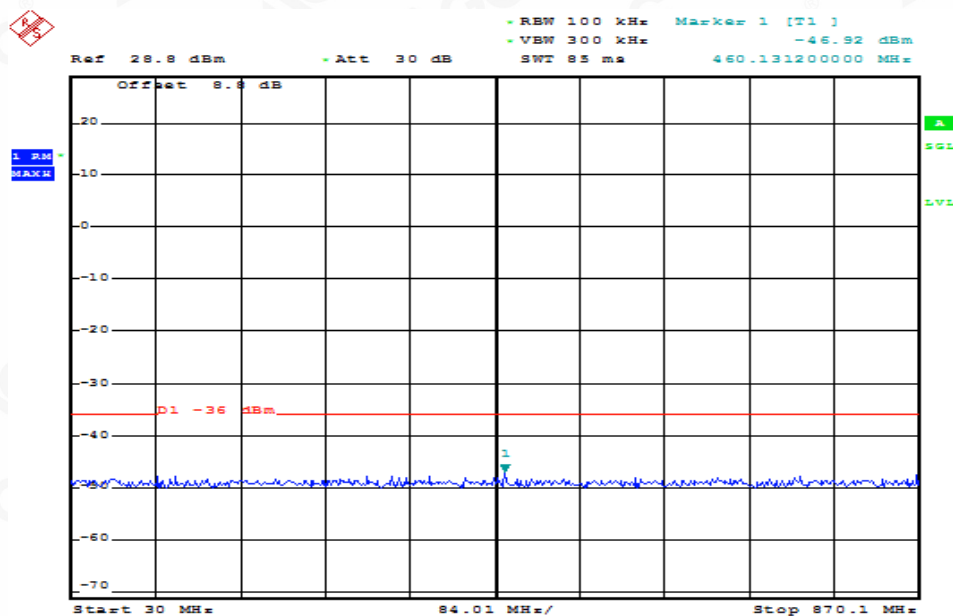
150KHZ~30MHZ



AAA

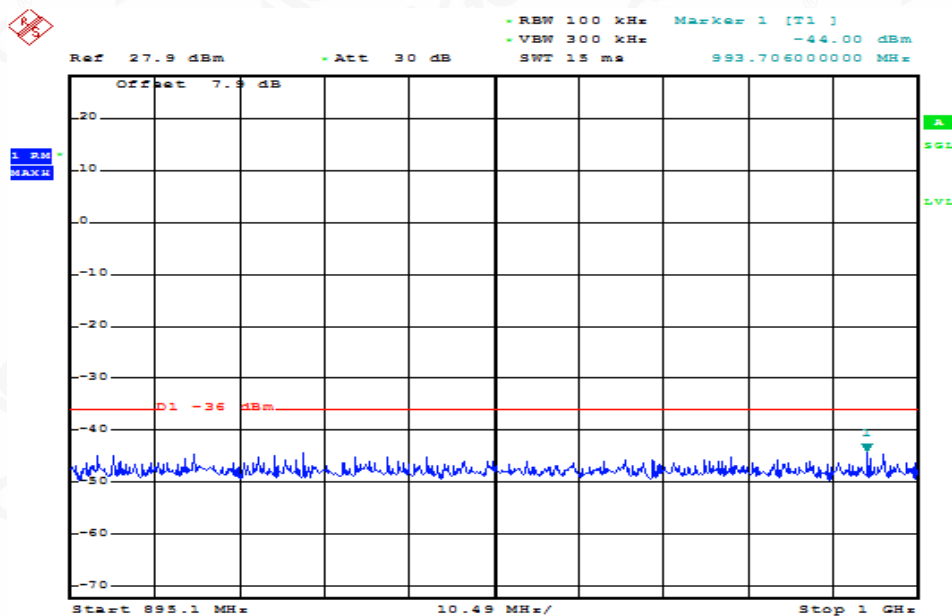
Date: 17.OCT.2019 09:37:50

30MHZ~1GHZ



AAA

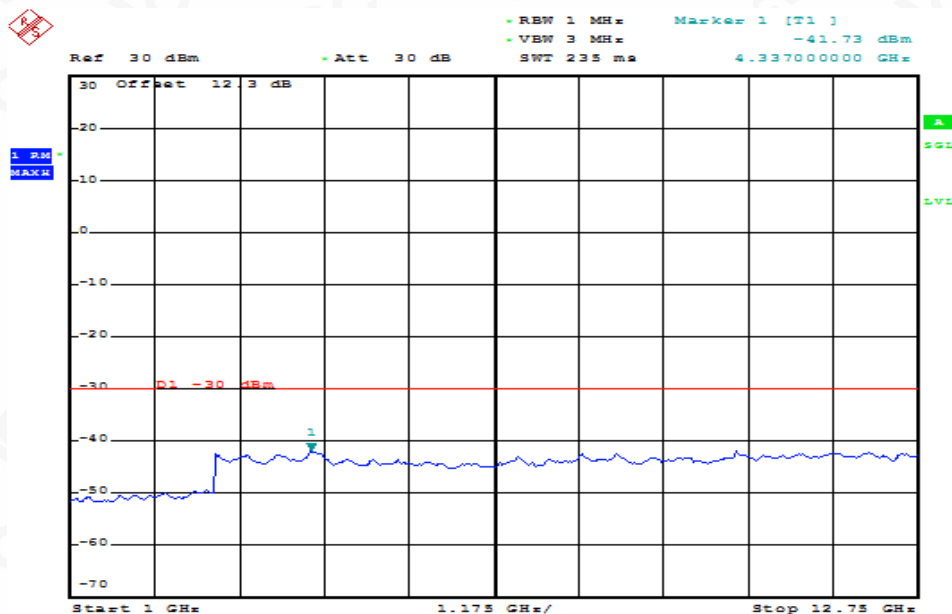
Date: 17.OCT.2019 09:38:03



AAA

Date: 17.OCT.2019 09:38:15

1GHZ~12.75GHZ

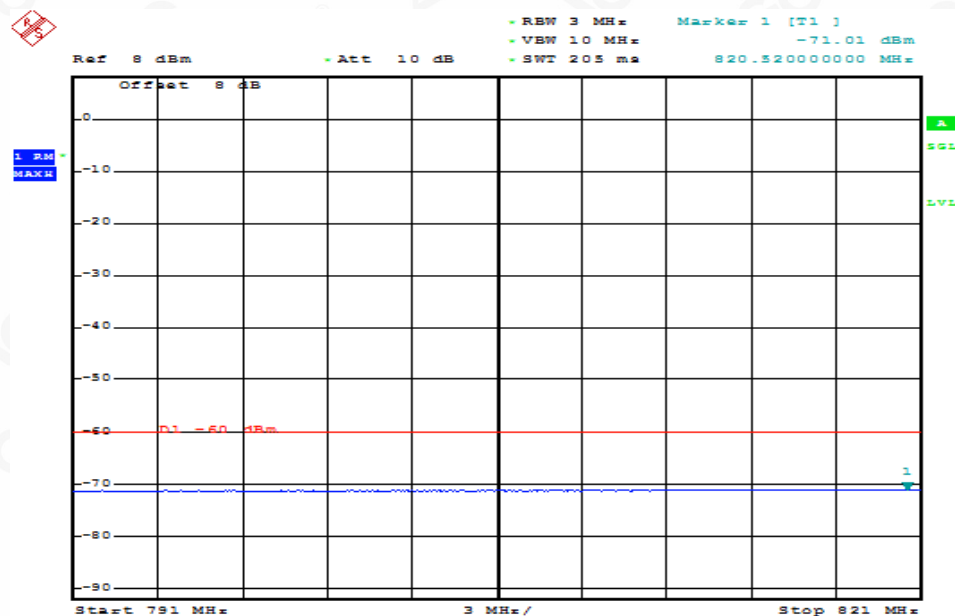


AAA

Date: 17.OCT.2019 09:38:28



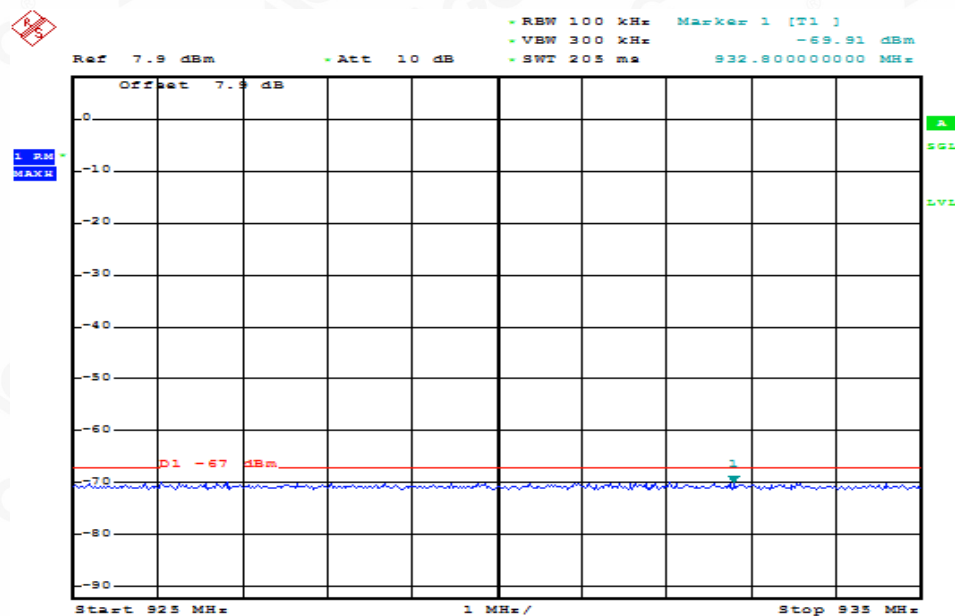
791MHZ~821MHZ



AAA

Date: 17.OCT.2019 09:39:13

925MHZ~935MHZ



AAA

Date: 17.OCT.2019 09:39:58



## Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

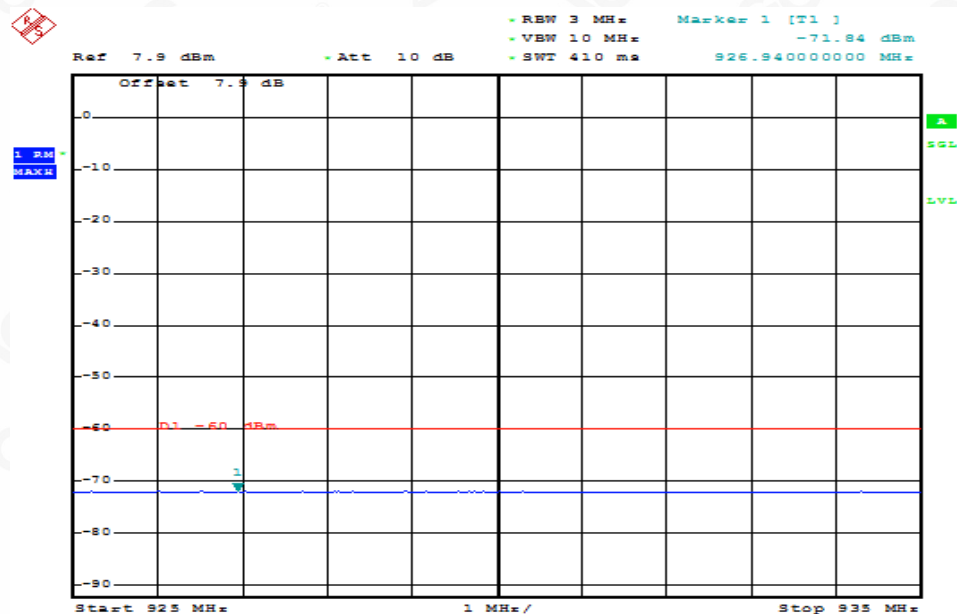
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: [aqc@aqc-cert.com](mailto:aqc@aqc-cert.com)

Service Hotline: 400 089 2118

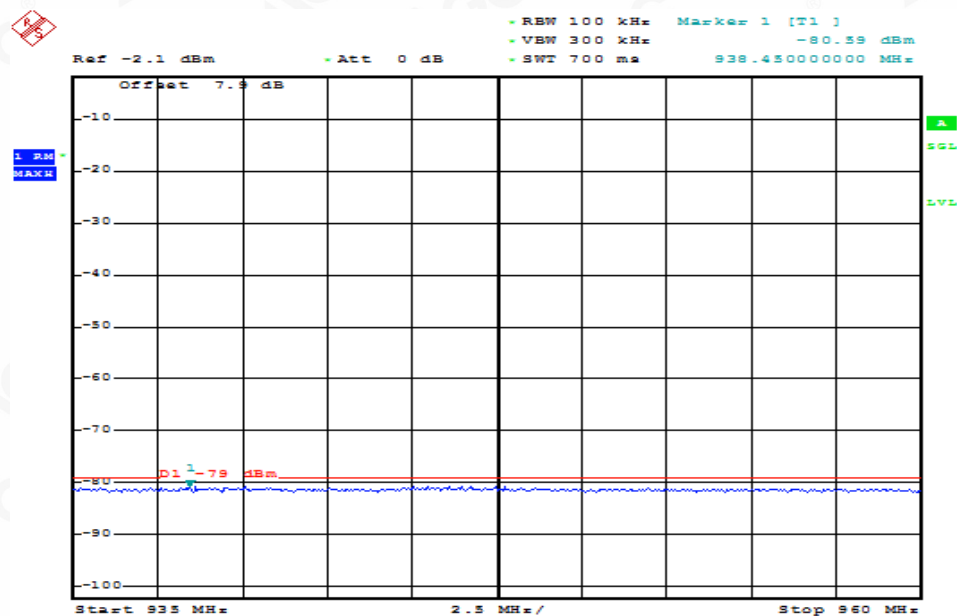
### 925MHZ~935MHZ



AAA

Date: 17.OCT.2019 09:41:04

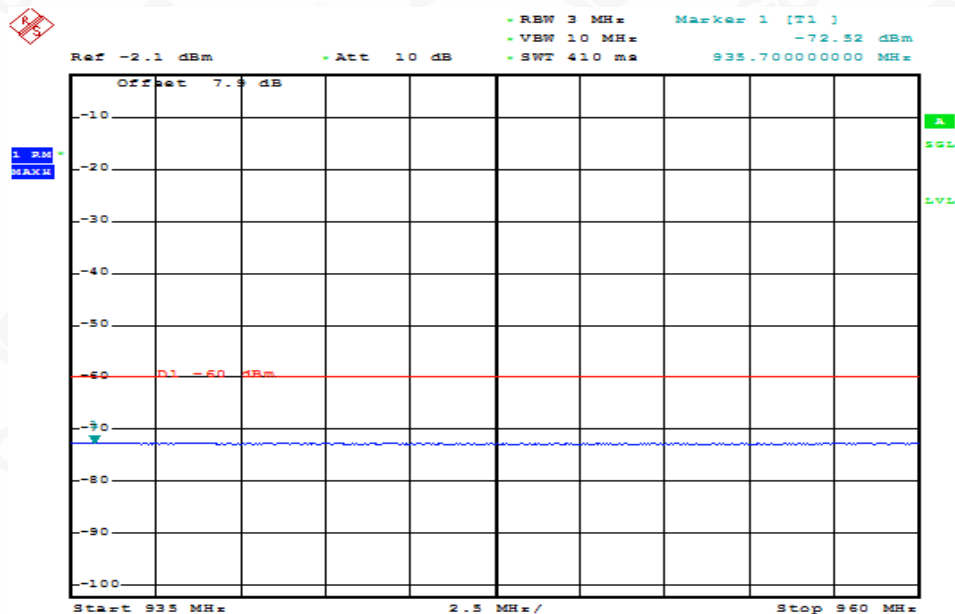
### 935MHZ~960MHZ



AAA

Date: 17.OCT.2019 09:41:28

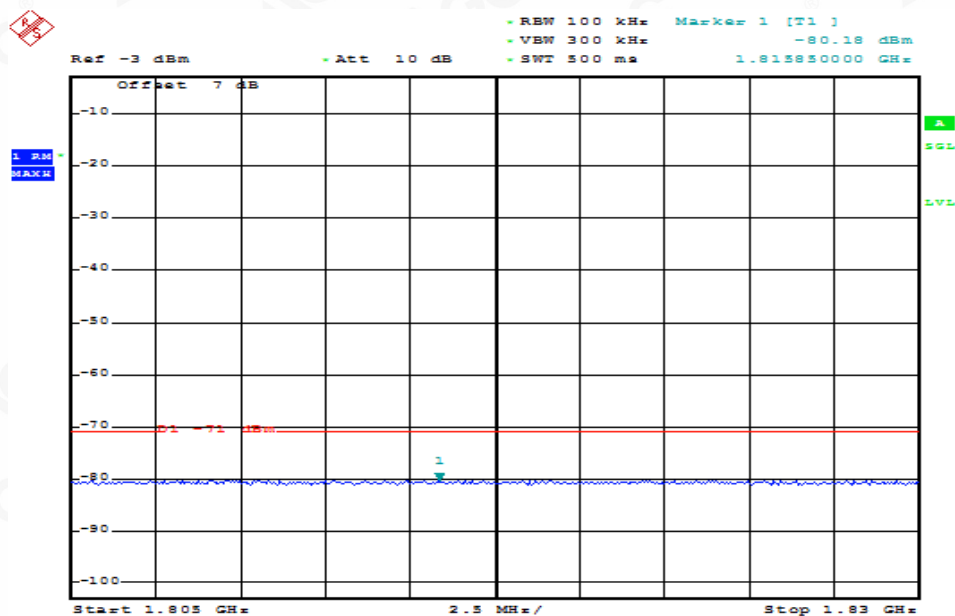
935MHZ~960MHZ



AAA

Date: 17.OCT.2019 09:42:35

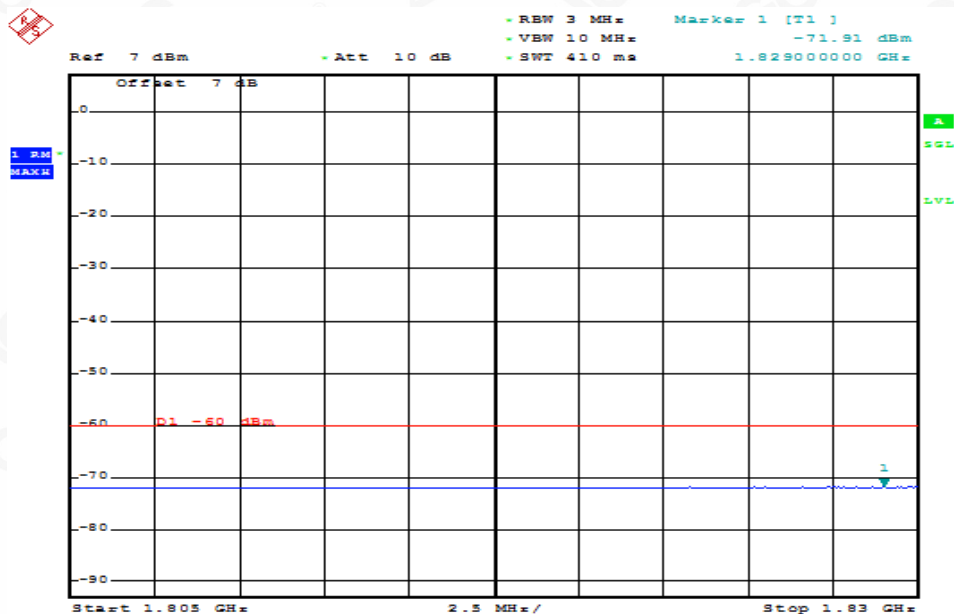
1805MHZ~1830MHZ



AAA

Date: 17.OCT.2019 09:42:47

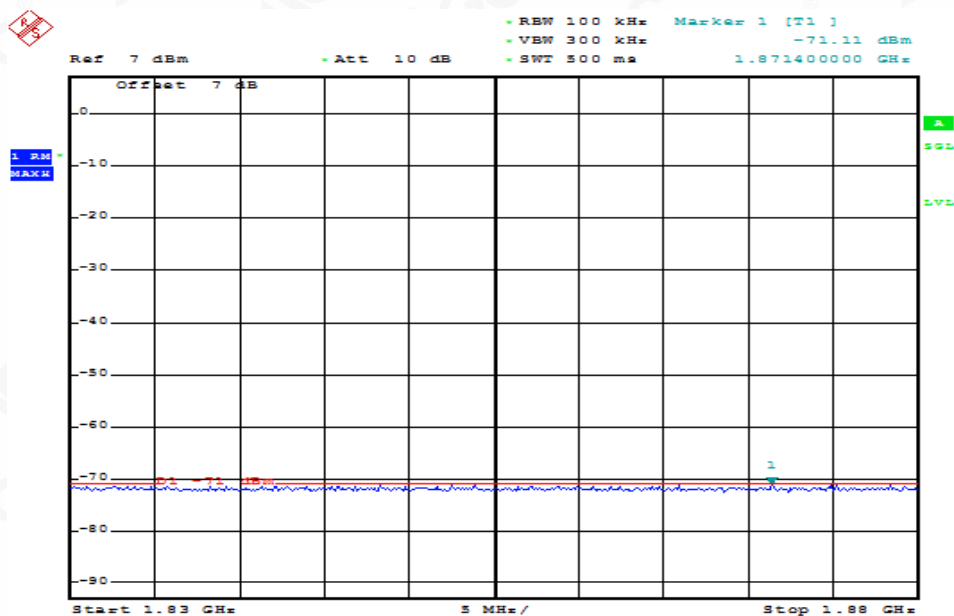
1805MHZ~1830MHZ



AAA

Date: 17.OCT.2019 09:44:15

1830MHZ~1880MHZ

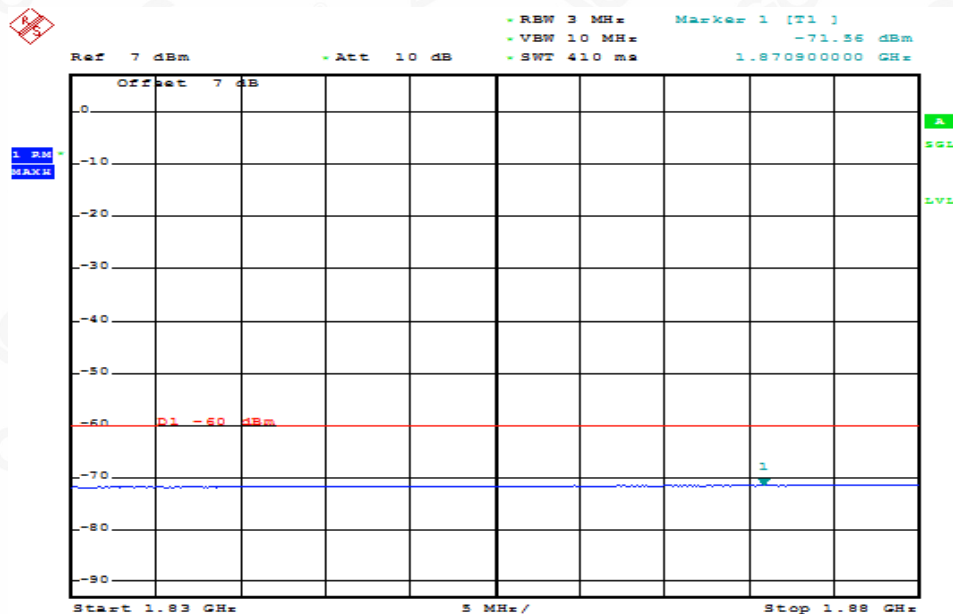


AAA

Date: 17.OCT.2019 09:44:49



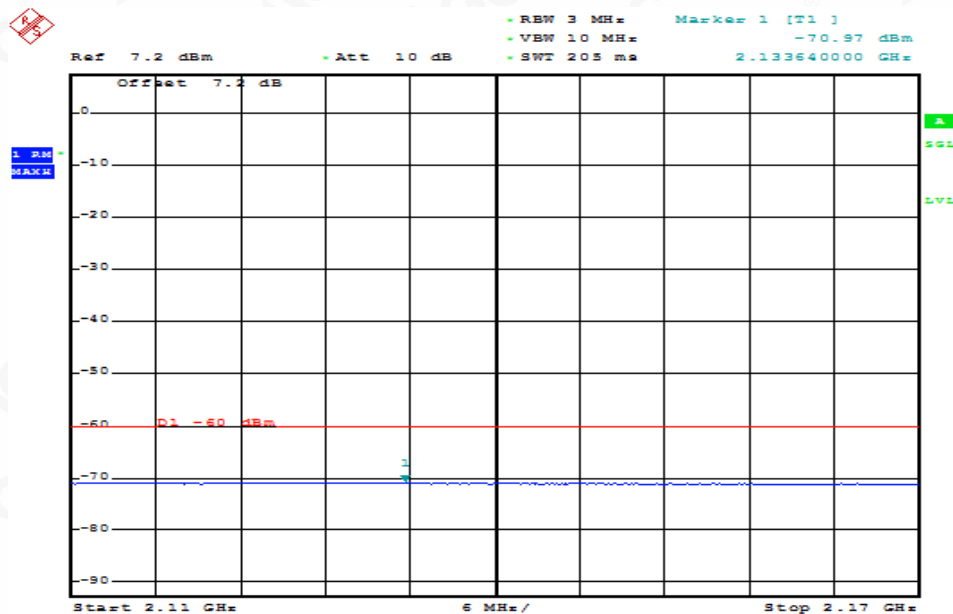
1830MHZ~1880MHZ



AAA

Date: 17.OCT.2019 09:45:56

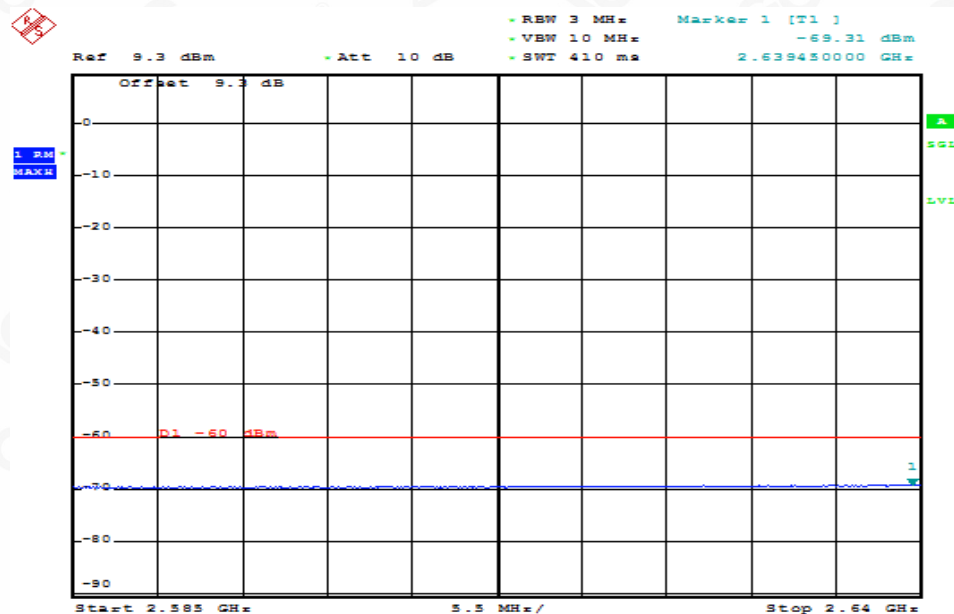
2110MHZ~2170MHZ



AAA

Date: 17.OCT.2019 09:46:41

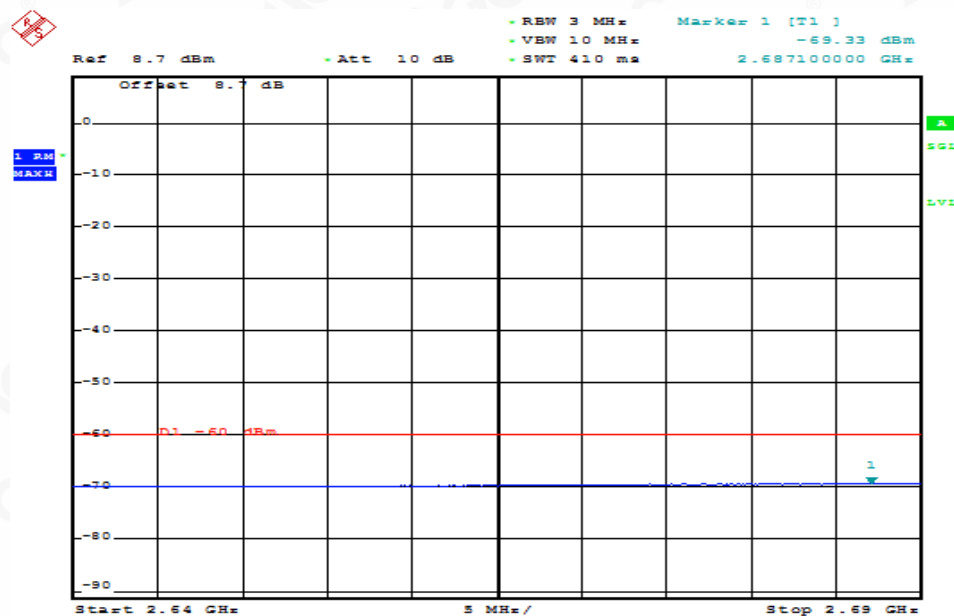
2585MHZ~2640MHZ



AAA

Date: 17.OCT.2019 09:47:15

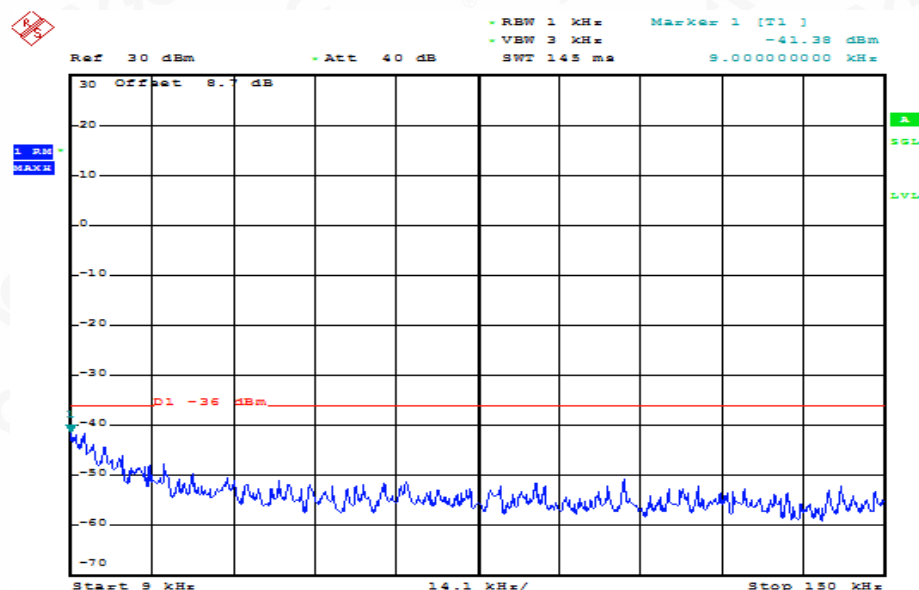
2640MHZ~2690MHZ



AAA

Date: 17.OCT.2019 09:47:56

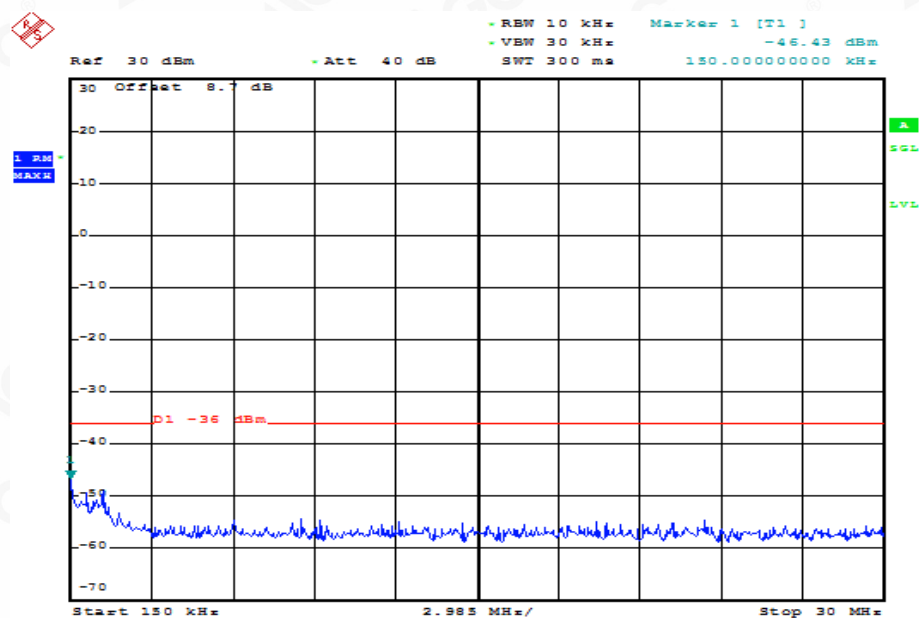
# Channel MCH 9KHZ~150KHZ



AAA

Date: 17.OCT.2019 09:48:17

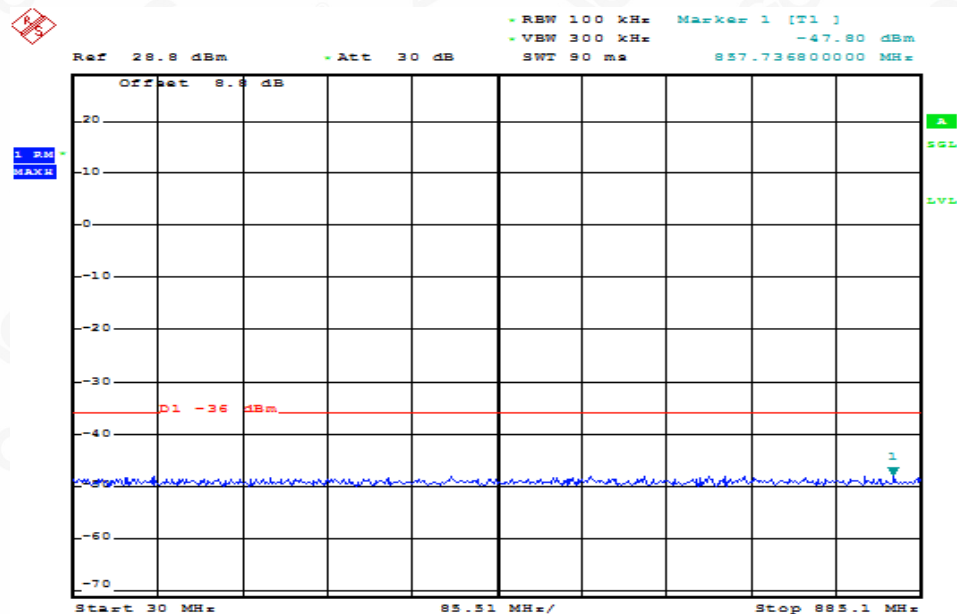
# 150KHZ~30MHZ



AAA

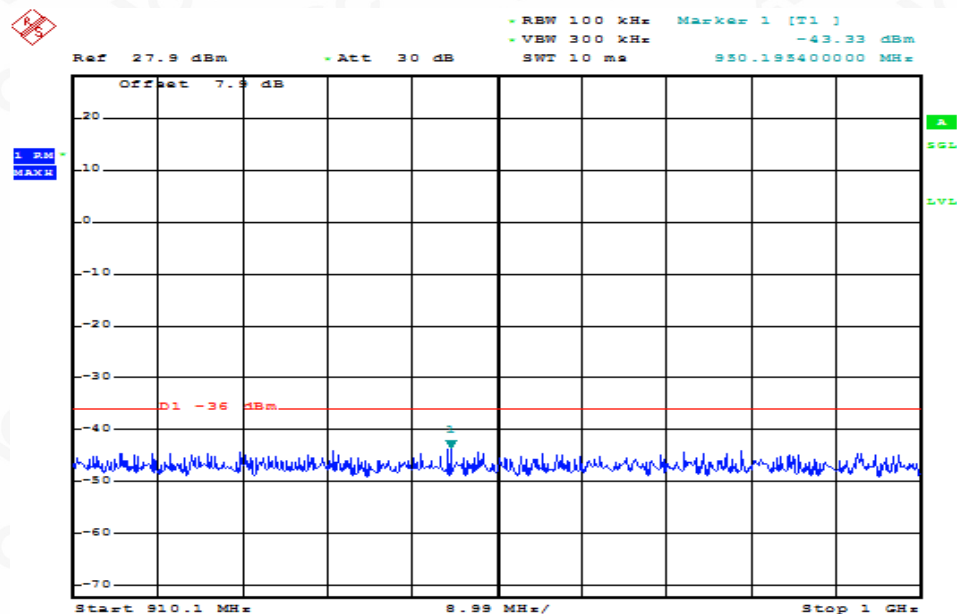
Date: 17.OCT.2019 09:48:30

30MHZ~1GHZ



AAA

Date: 17.OCT.2019 09:48:42

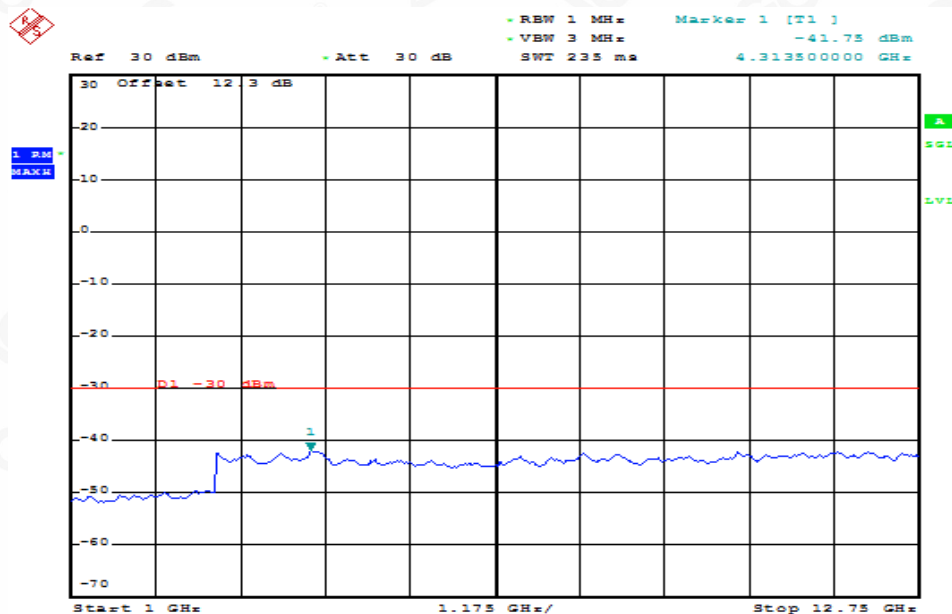


AAA

Date: 17.OCT.2019 09:48:55



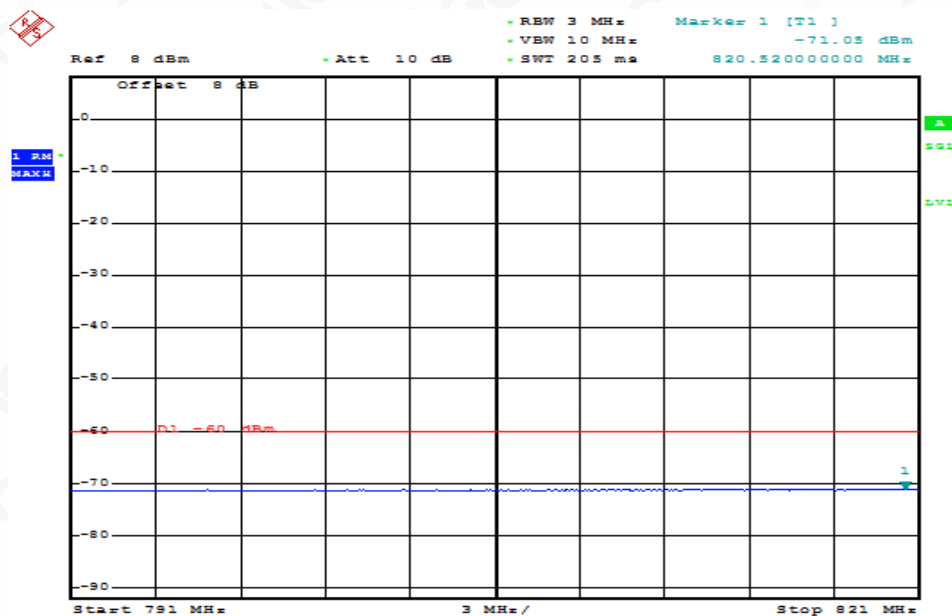
1GHZ~12.75GHZ



AAA

Date: 17.OCT.2019 09:49:07

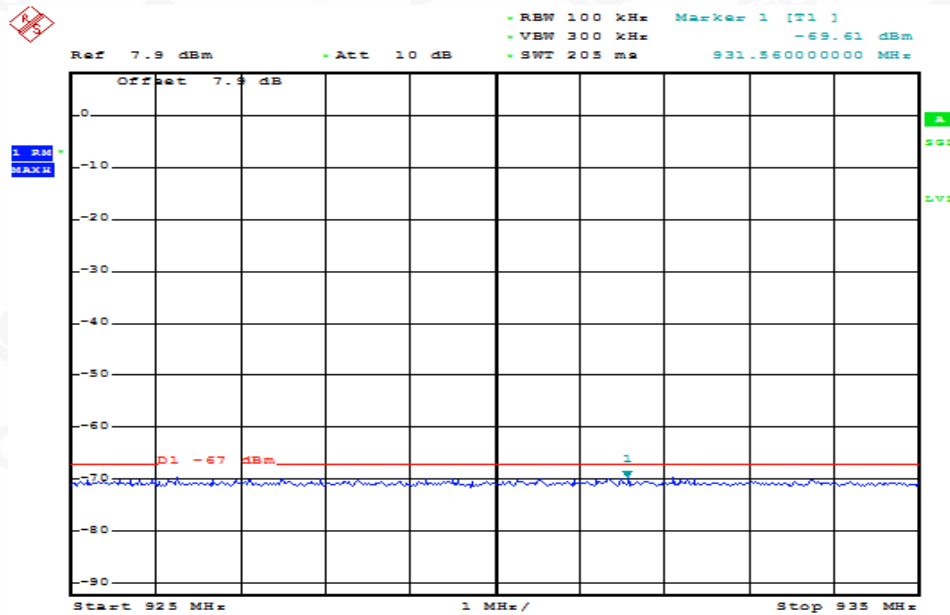
791MHZ~821MHZ



AAA

Date: 17.OCT.2019 09:49:57

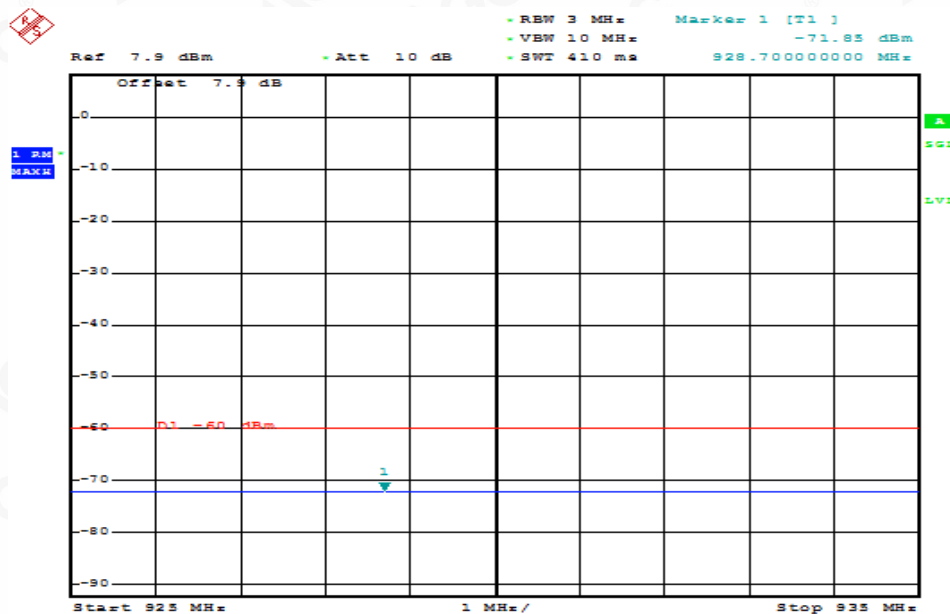
925MHZ~935MHZ



AAA

Date: 17.OCT.2019 09:50:42

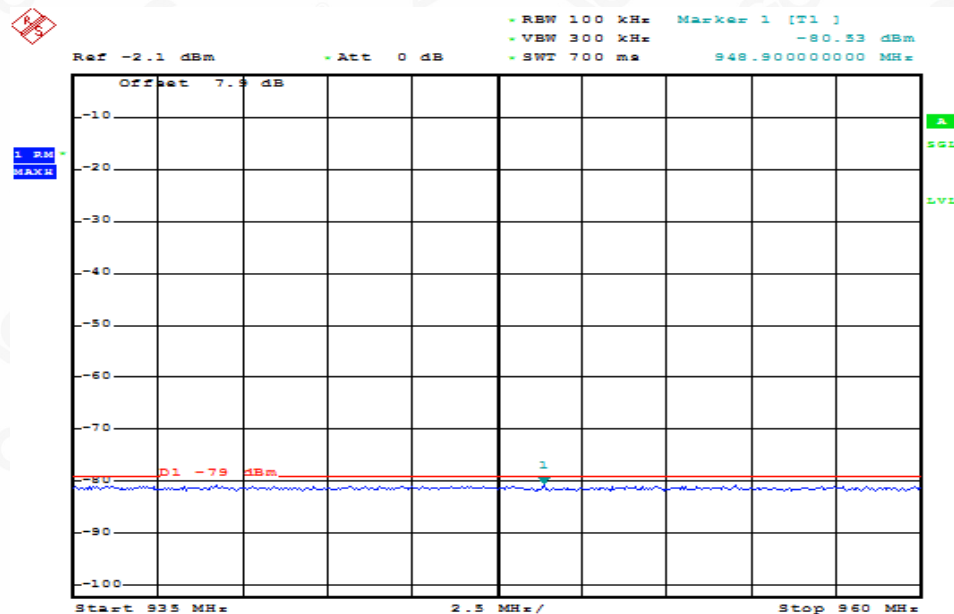
925MHZ~935MHZ



AAA

Date: 17.OCT.2019 09:51:49

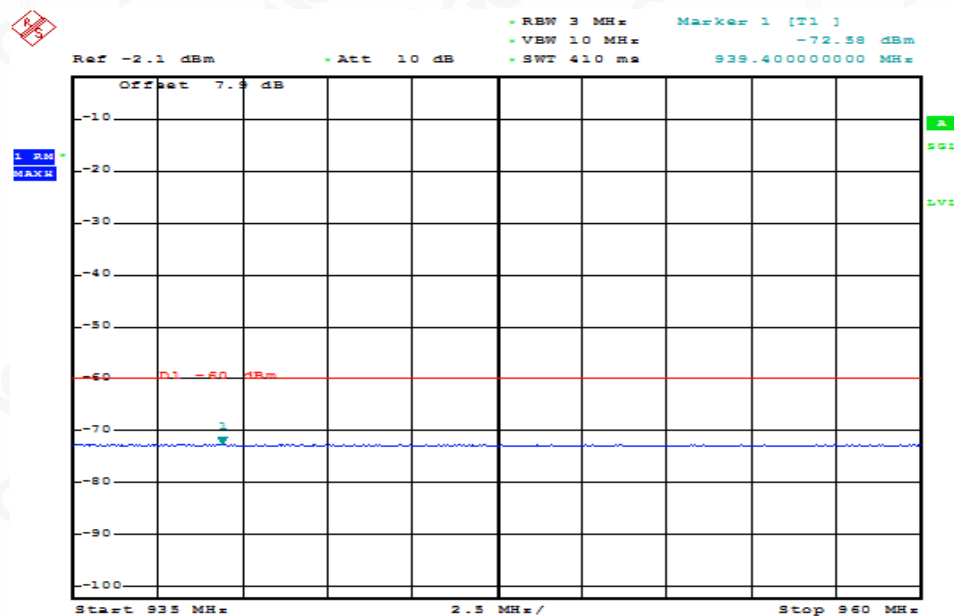
935MHZ~960MHZ



AAA

Date: 17.OCT.2019 09:52:12

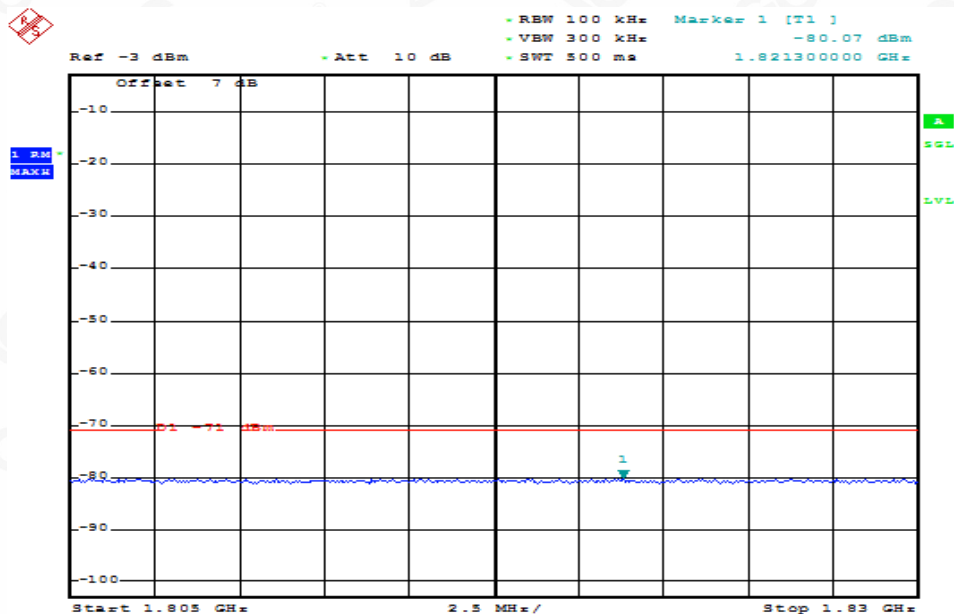
935MHZ~960MHZ



AAA

Date: 17.OCT.2019 09:53:19

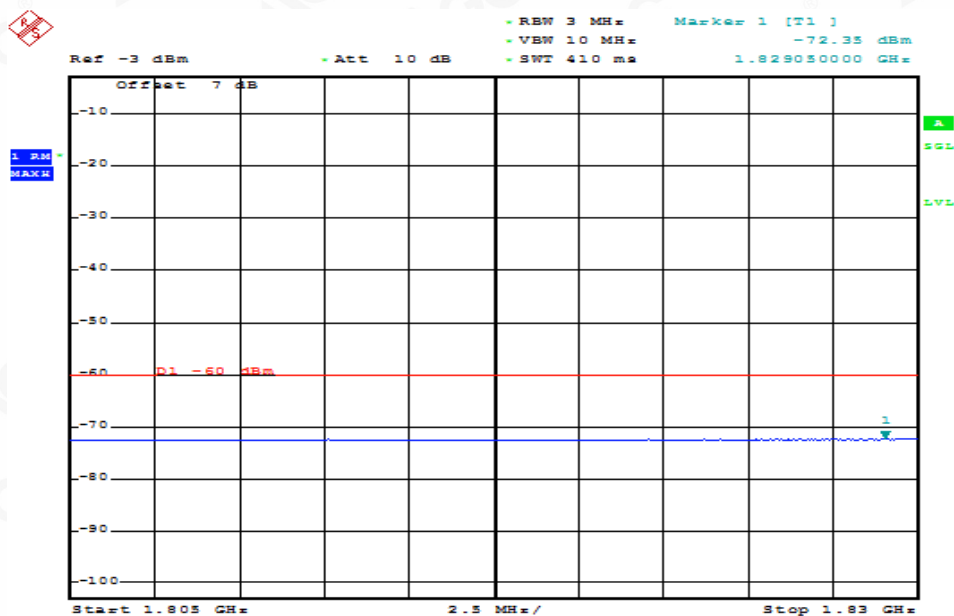
1805MHZ~1830MHZ



AAA

Date: 17.OCT.2019 09:53:31

1805MHZ~1830MHZ

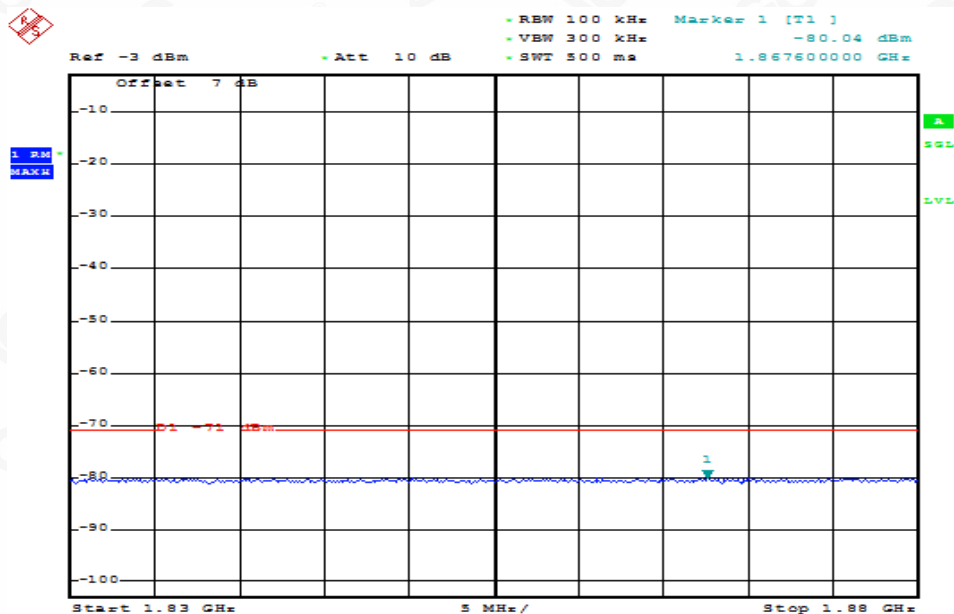


AAA

Date: 17.OCT.2019 09:54:38



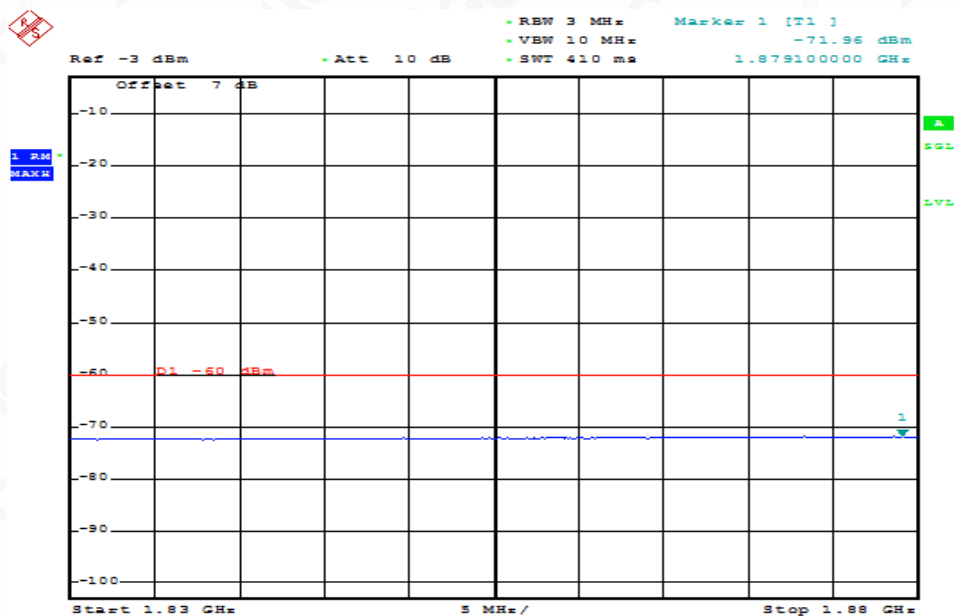
1830MHZ~1880MHZ



AAA

Date: 17.OCT.2019 09:54:51

1830MHZ~1880MHZ



AAA

Date: 17.OCT.2019 09:55:58



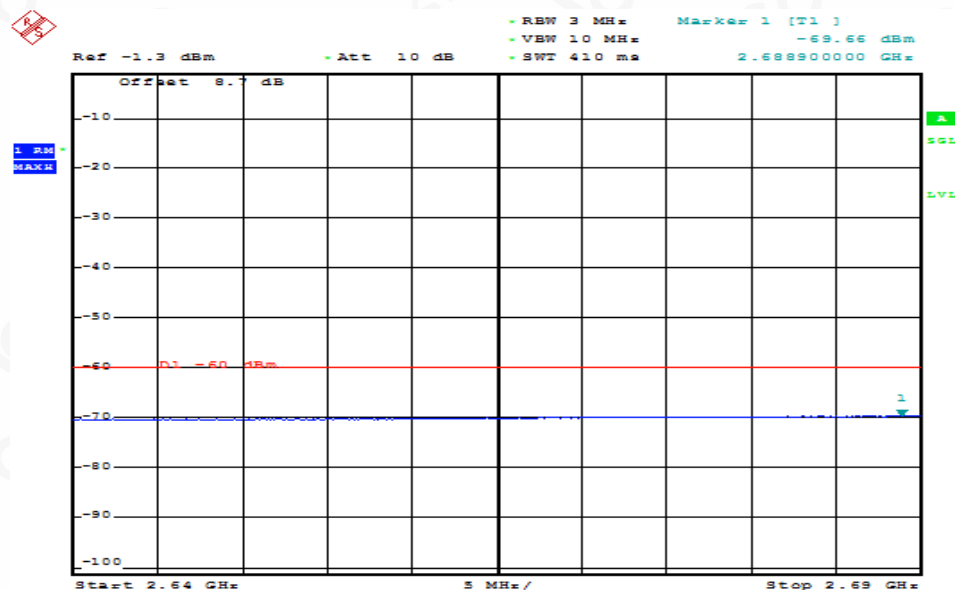
## Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088      E-mail: [agc@agc-cert.com](mailto:agc@agc-cert.com)      Service Hotline: 400 089 2118

## 2640MHZ~2690MHZ

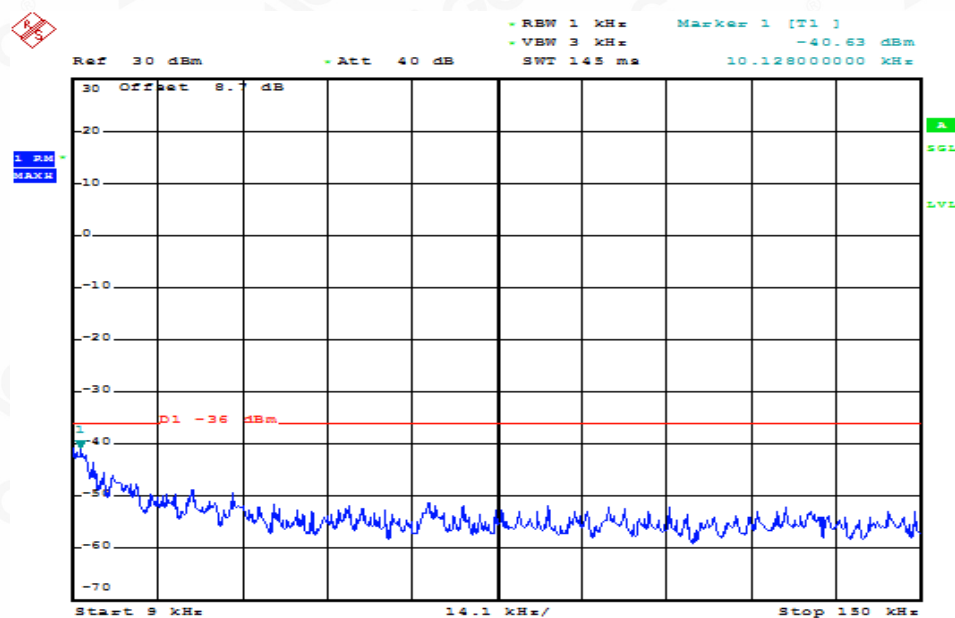


AAA

Date: 17.OCT.2019 09:57:55

## Channel HCH

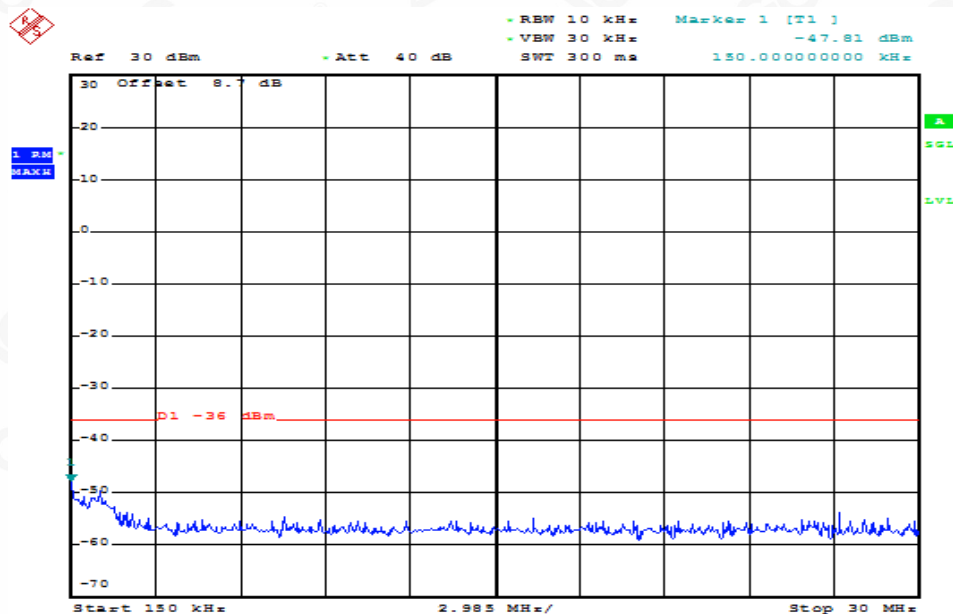
### 9KHZ~150KHZ



AAA

Date: 17.OCT.2019 09:58:17

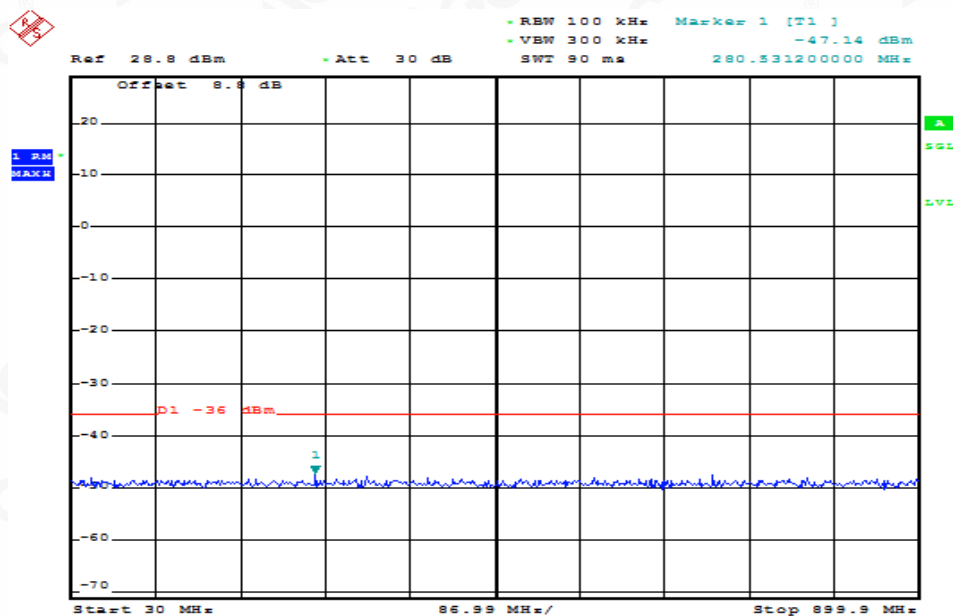
150KHZ~30MHZ



AAA

Date: 17.OCT.2019 09:58:29

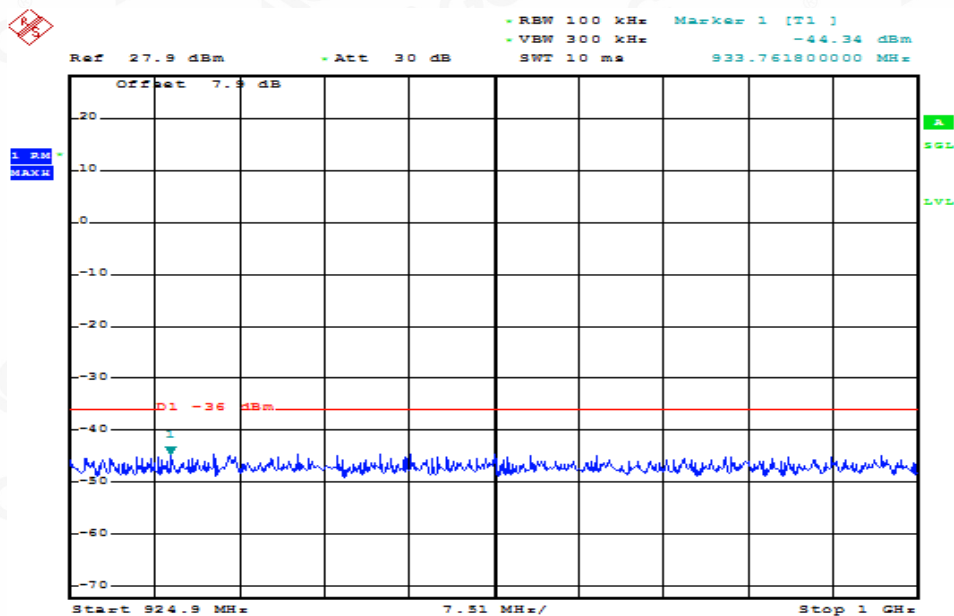
30MHZ~1GHZ



AAA

Date: 17.OCT.2019 09:58:42

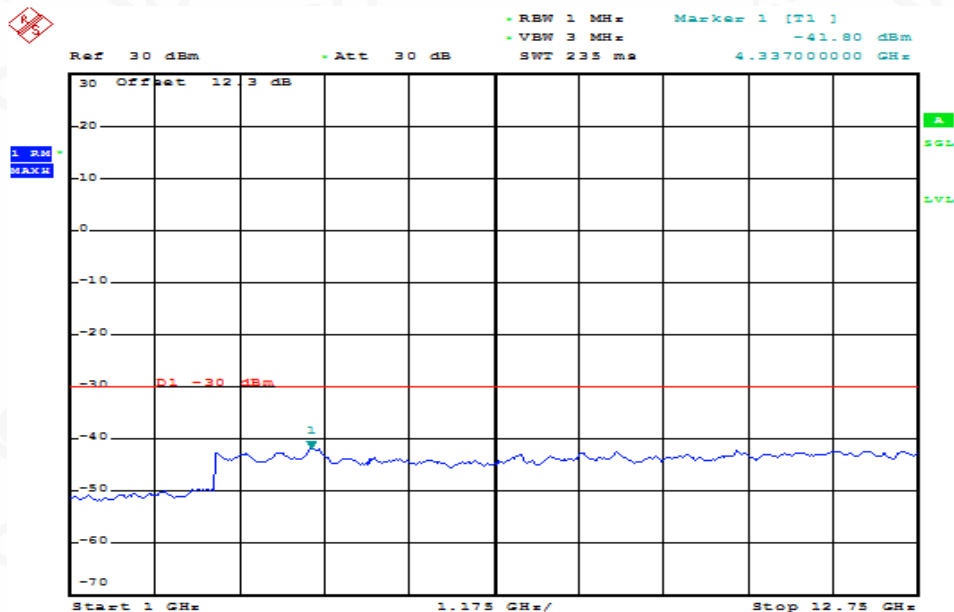




AAA

Date: 17.OCT.2019 09:58:55

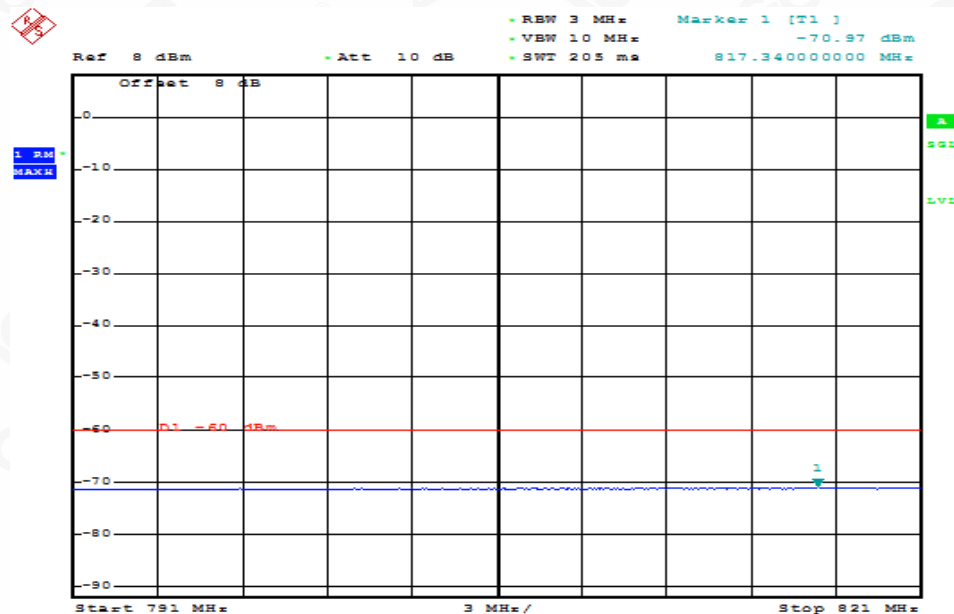
1GHZ~12.75GHZ



AAA

Date: 17.OCT.2019 09:59:07

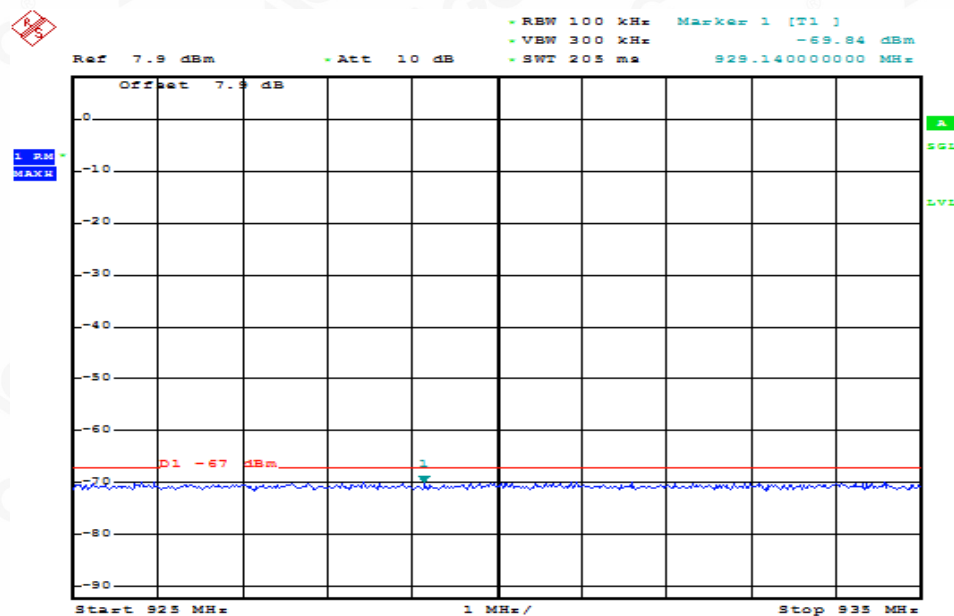
### 791MHZ~821MHZ



AAA

Date: 17.OCT.2019 09:59:52

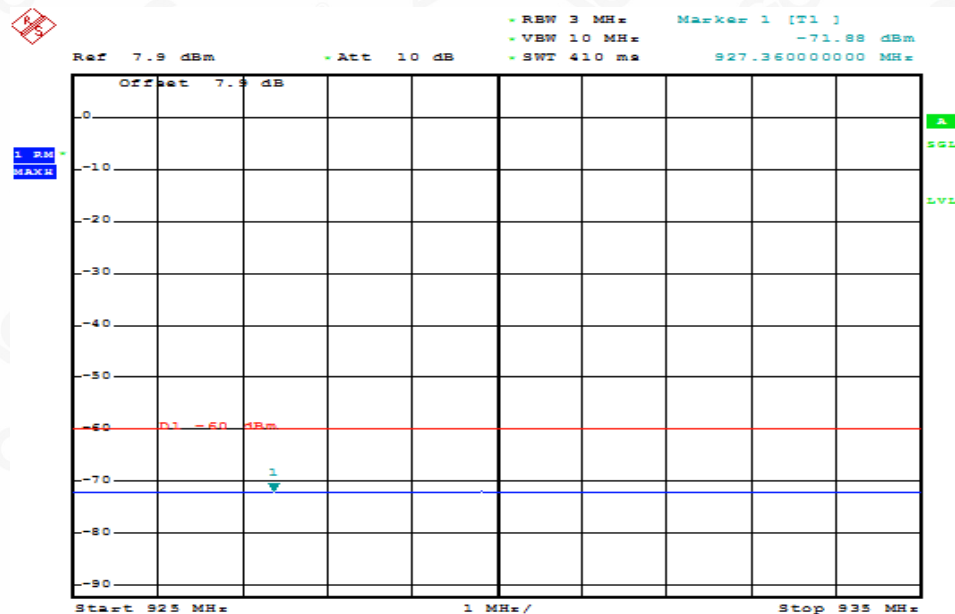
### 925MHZ~935MHZ



AAA

Date: 17.OCT.2019 10:00:37

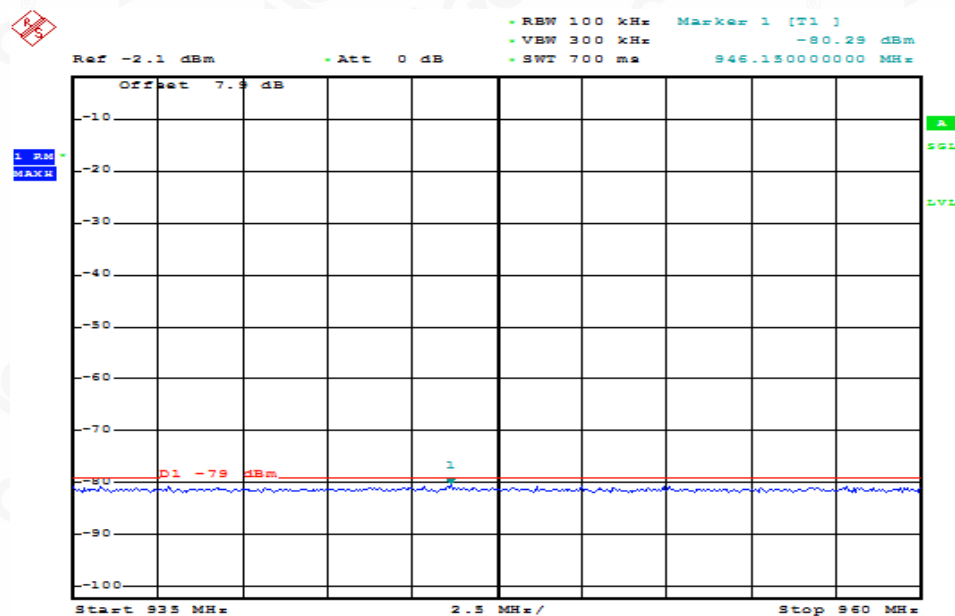
925MHZ~935MHZ



AAA

Date: 17.OCT.2019 10:01:44

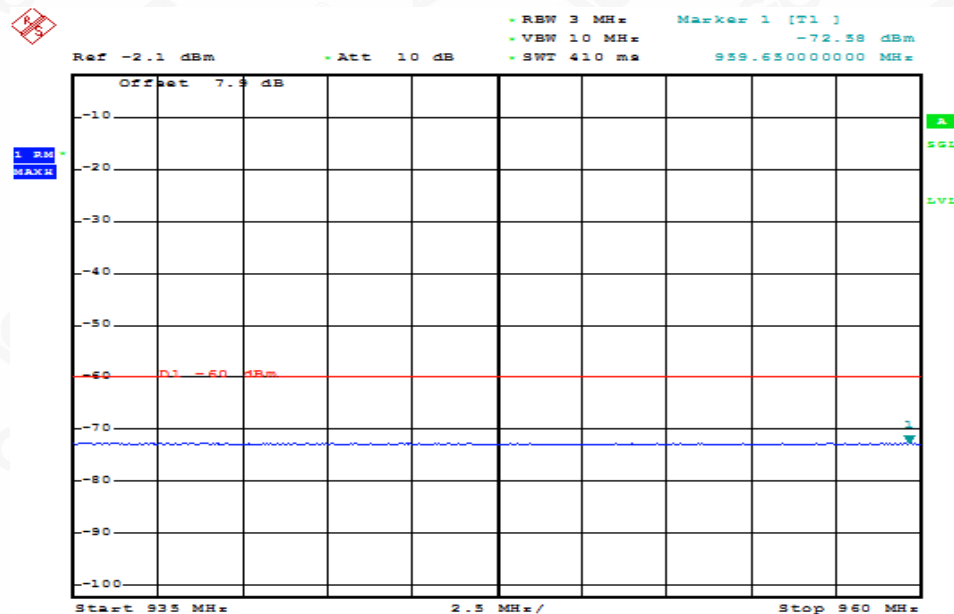
935MHZ~960MHZ



AAA

Date: 17.OCT.2019 10:02:08

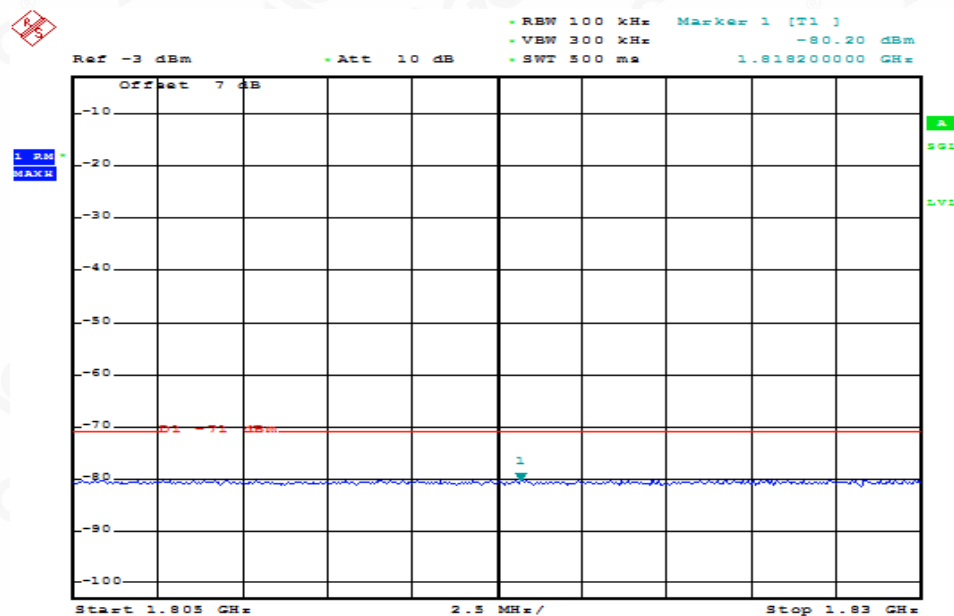
935MHZ~960MHZ



AAA

Date: 17.OCT.2019 10:03:15

1805MHZ~1830MHZ

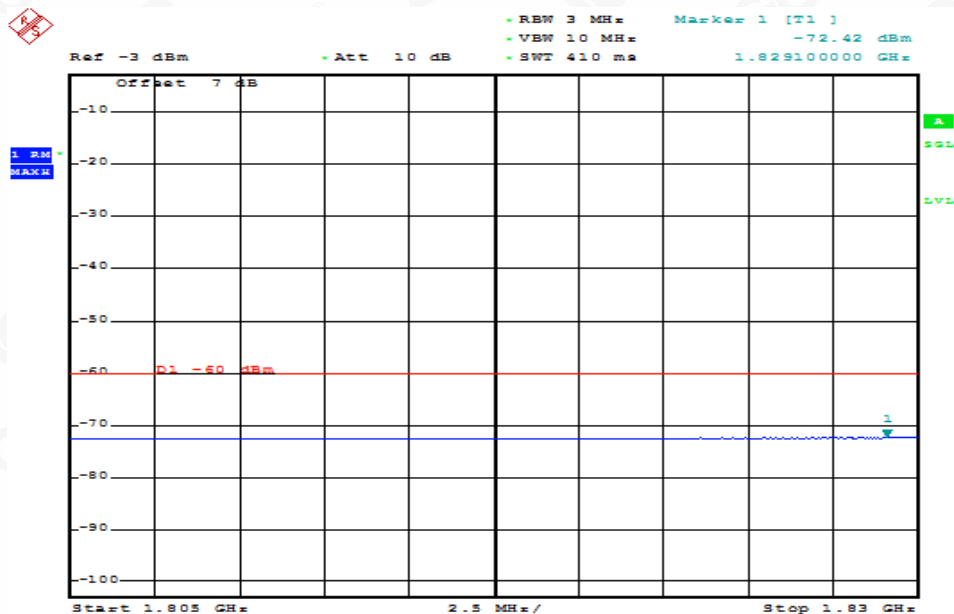


AAA

Date: 17.OCT.2019 10:03:27



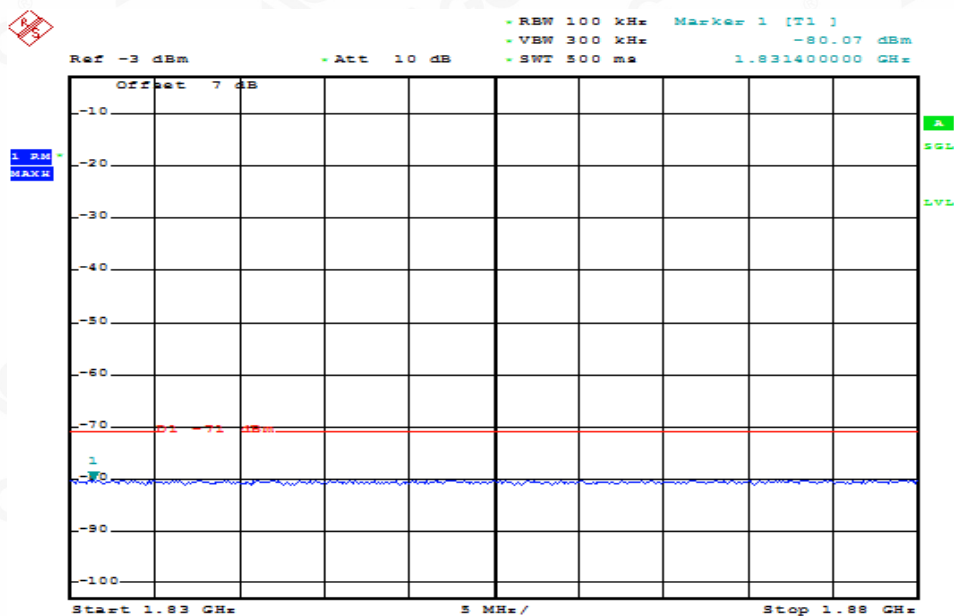
1805MHZ~1830MHZ



AAA

Date: 17.OCT.2019 10:04:34

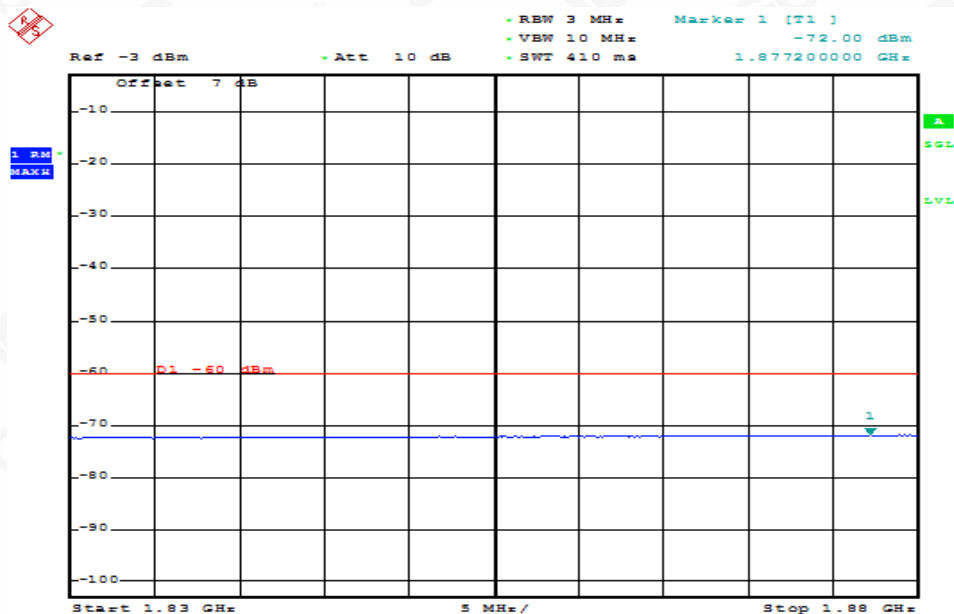
1830MHZ~1880MHZ



AAA

Date: 17.OCT.2019 10:04:46

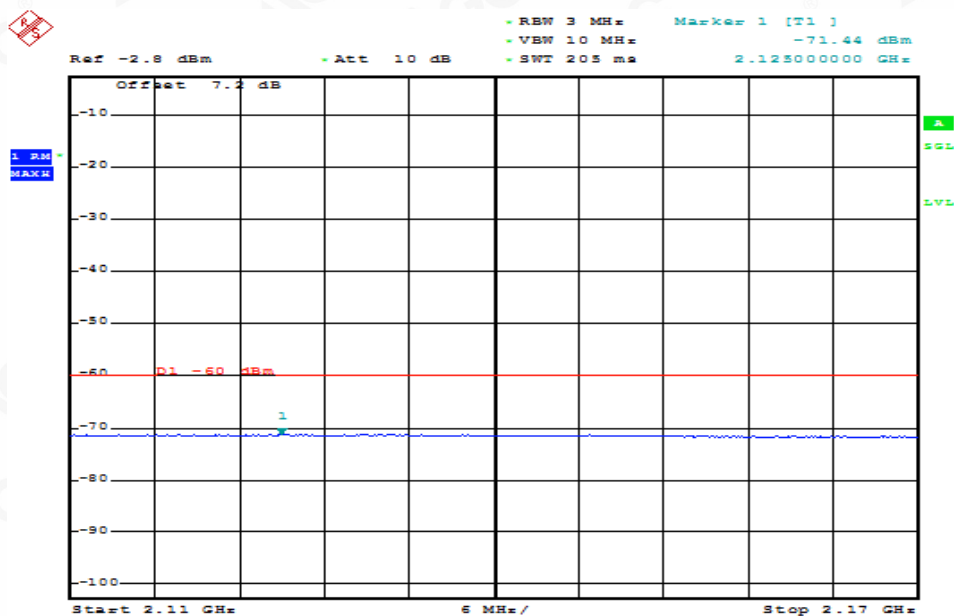
1830MHZ~1880MHZ



AAA

Date: 17.OCT.2019 10:05:53

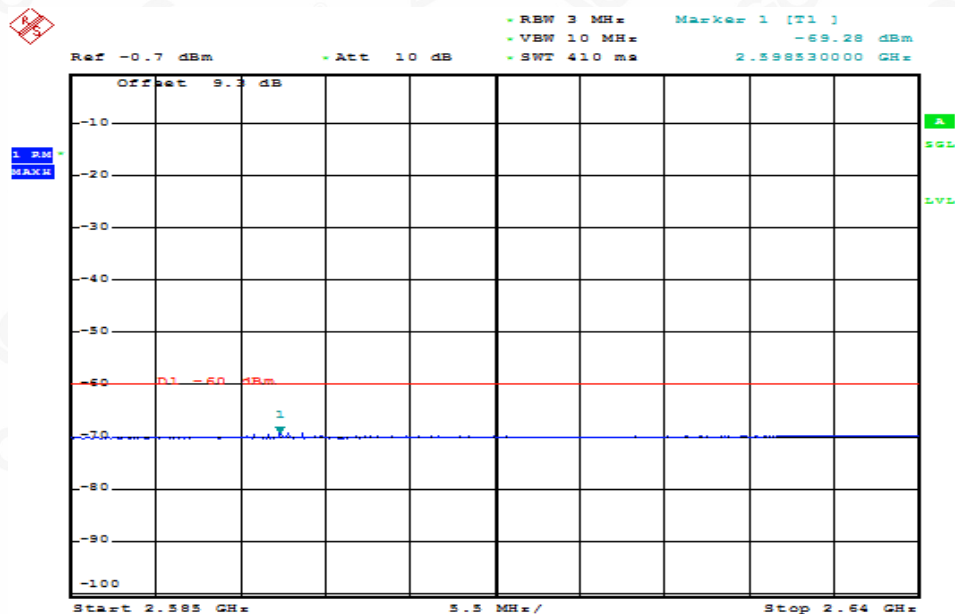
2110MHZ~2170MHZ



AAA

Date: 17.OCT.2019 10:06:38

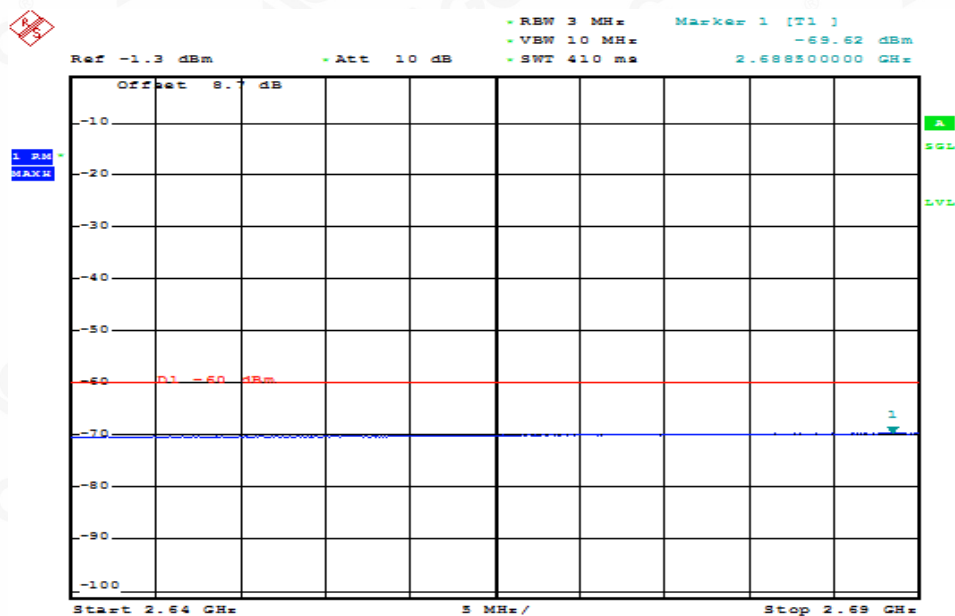
## 2585MHZ~2640MHZ



AAA

Date: 16.OCT.2019 17:50:58

## 2640MHZ~2690MHZ



AAA

Date: 16.OCT.2019 17:51:32

## Appendix F. Transmitter maximum output power with HS-DPCCH

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

Operating Band	Test Conditions	Test Channel	Sub-test	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	1	23.13	24(+1.7/-3.7)	Pass
			2	22.29	24(+1.7/-3.7)	Pass
			3	22.21	23.5(+2.2/-3.7)	Pass
			4	22.20	23.5(+2.2/-3.7)	Pass
		MCH	1	23.28	24(+1.7/-3.7)	Pass
			2	22.39	24(+1.7/-3.7)	Pass
			3	22.33	23.5(+2.2/-3.7)	Pass
			4	22.31	23.5(+2.2/-3.7)	Pass
		HCH	1	23.30	24(+1.7/-3.7)	Pass
			2	22.47	24(+1.7/-3.7)	Pass
			3	22.36	23.5(+2.2/-3.7)	Pass
			4	22.37	23.5(+2.2/-3.7)	Pass
Band VIII	TNVN	LCH	1	22.96	24(+1.7/-3.7)	Pass
			2	22.03	24(+1.7/-3.7)	Pass
			3	21.95	23.5(+2.2/-3.7)	Pass
			4	22.00	23.5(+2.2/-3.7)	Pass
		MCH	1	22.87	24(+1.7/-3.7)	Pass
			2	21.96	24(+1.7/-3.7)	Pass
			3	21.84	23.5(+2.2/-3.7)	Pass
			4	21.80	23.5(+2.2/-3.7)	Pass
		HCH	1	23.15	24(+1.7/-3.7)	Pass
			2	22.26	24(+1.7/-3.7)	Pass
			3	22.15	23.5(+2.2/-3.7)	Pass
			4	22.13	23.5(+2.2/-3.7)	Pass





### Appendix G. Transmitter spectrum emission mask with HS-DPCCH

Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band I	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS

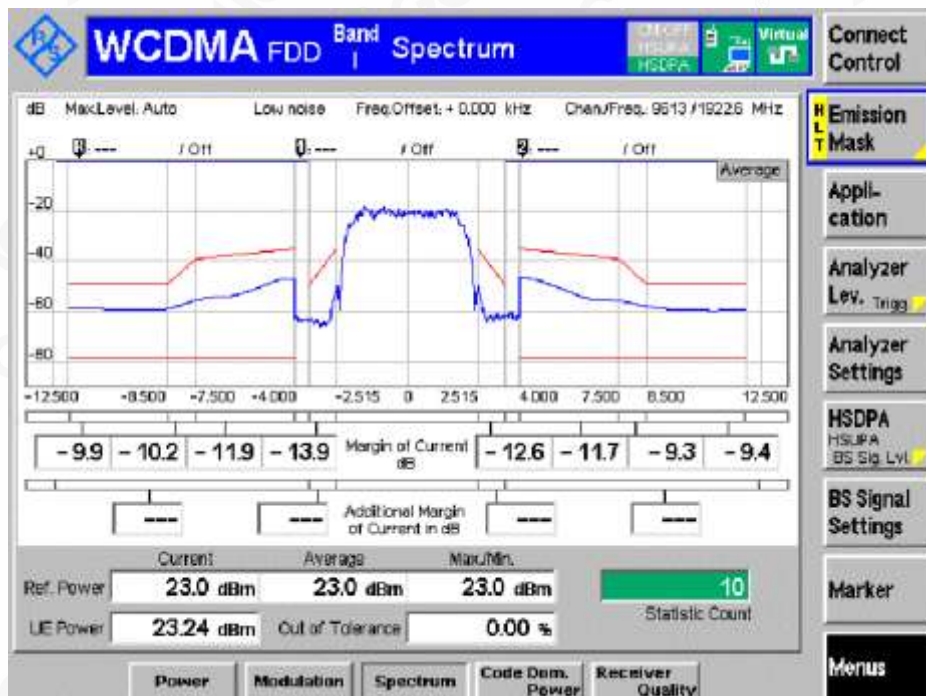
Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band VIII	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS



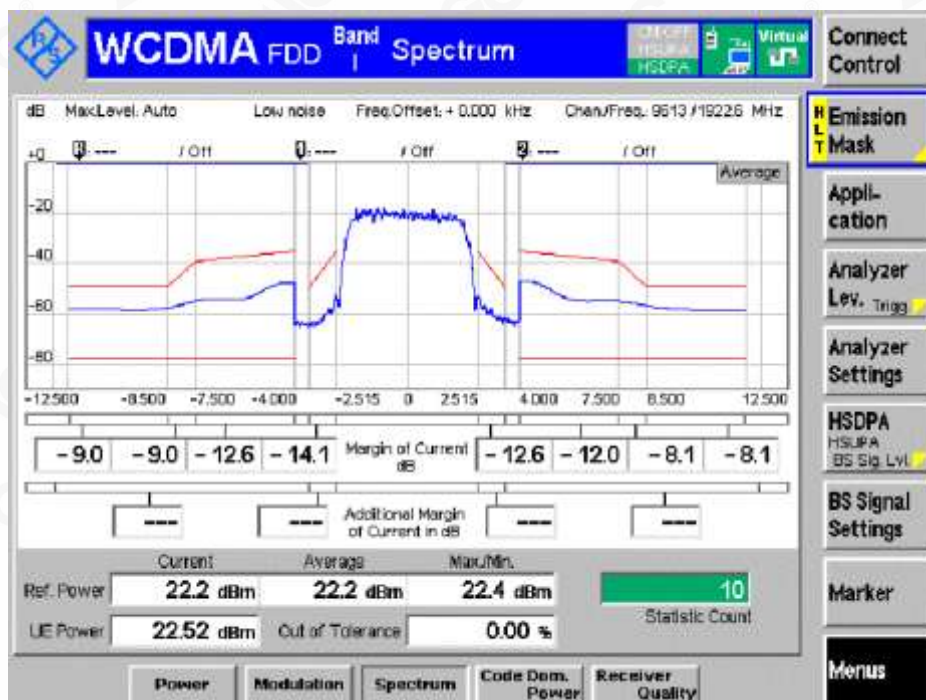
## BAND I

### Channel LCH

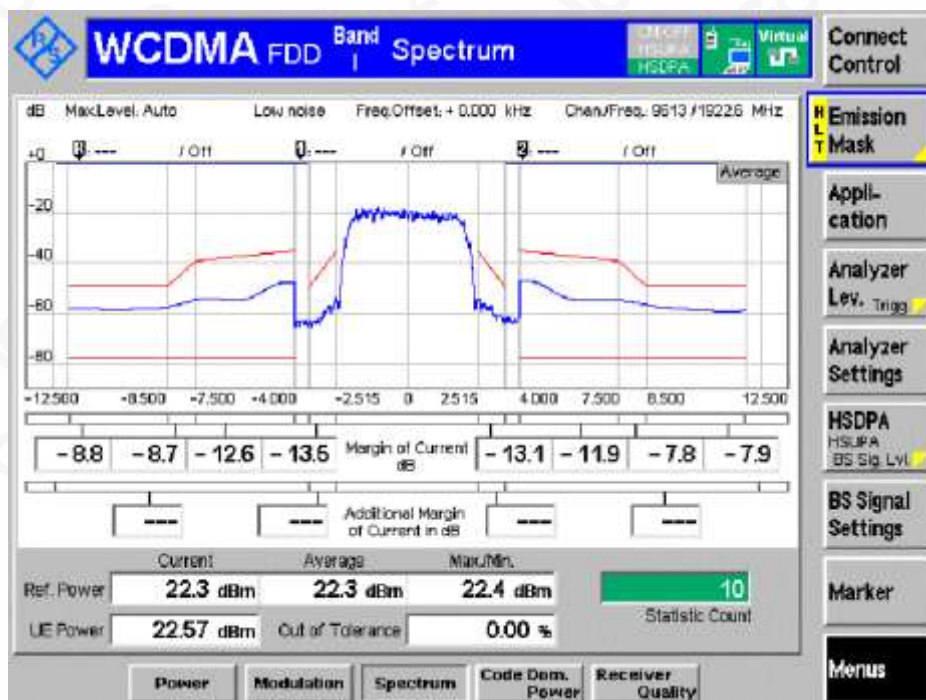
#### Sub-test 1



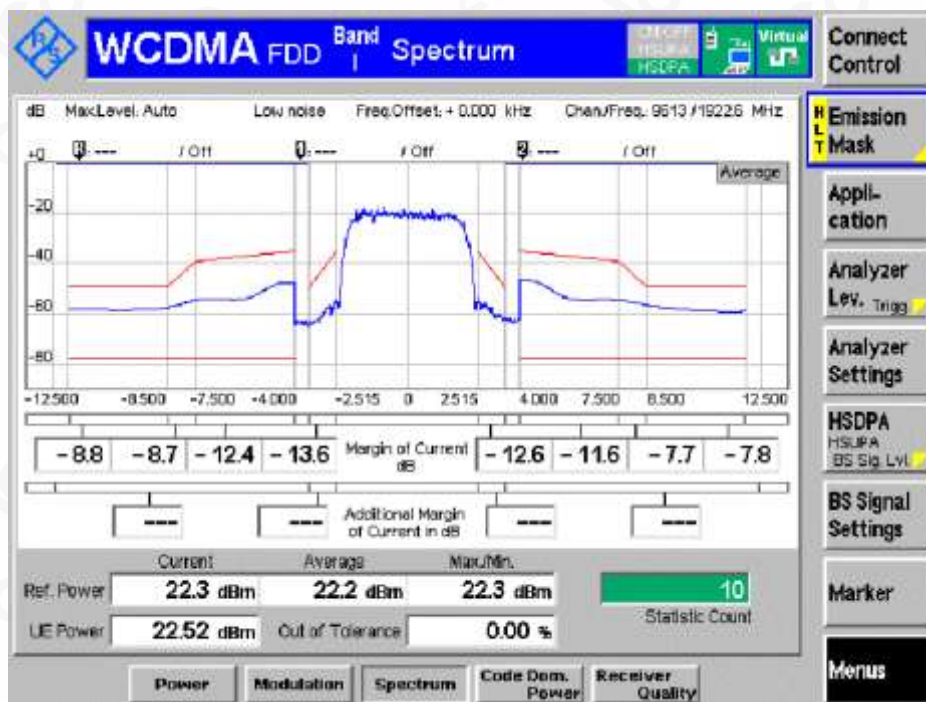
#### Sub-test 2



### Sub-test 3



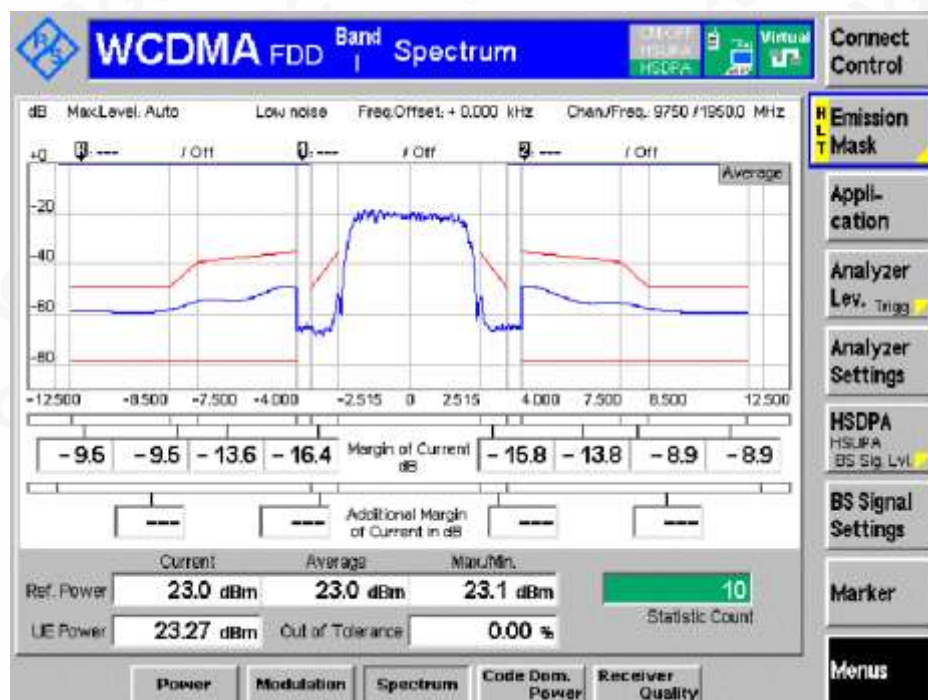
### Sub-test 4



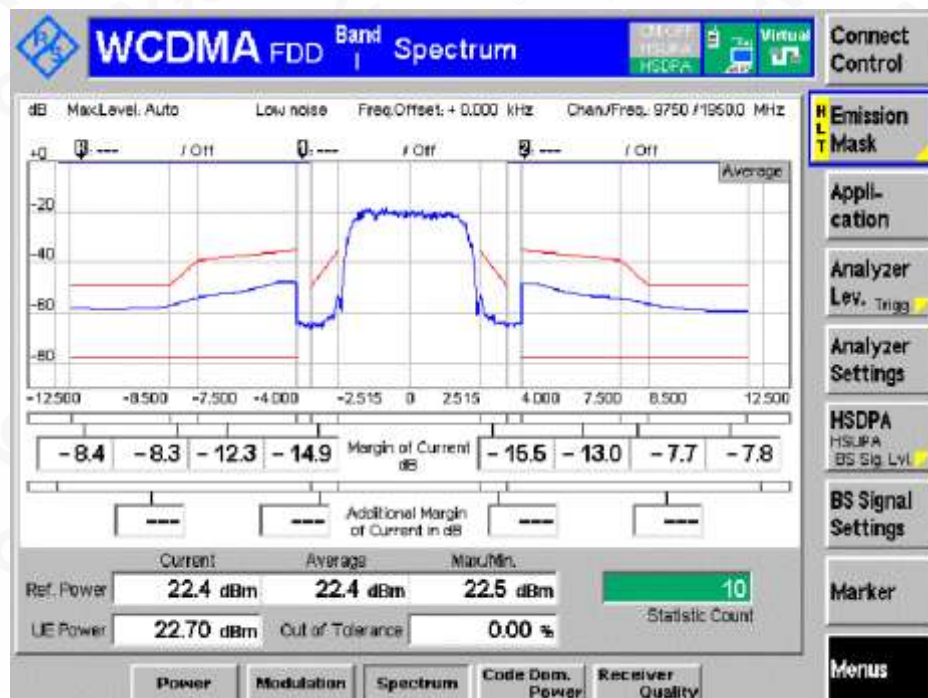


## Channel MCH

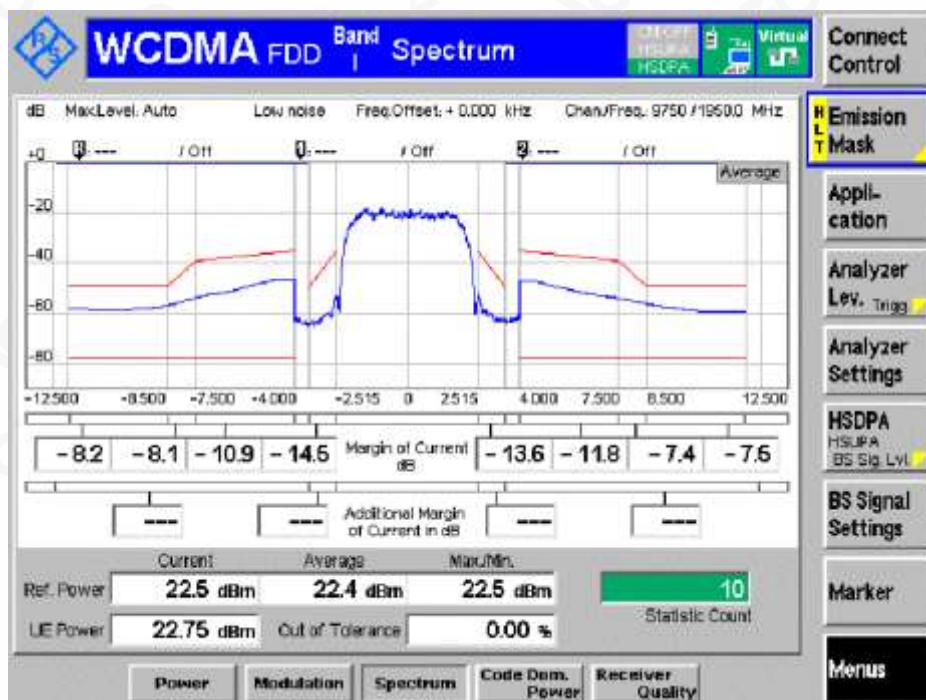
### Sub-test 1



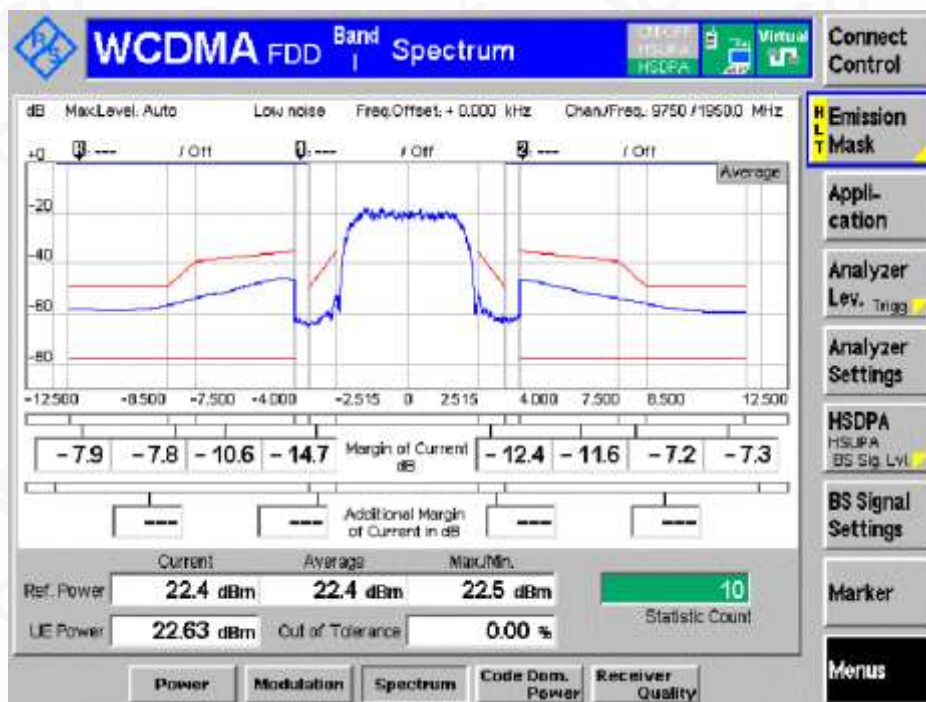
### Sub-test 2



### Sub-test 3



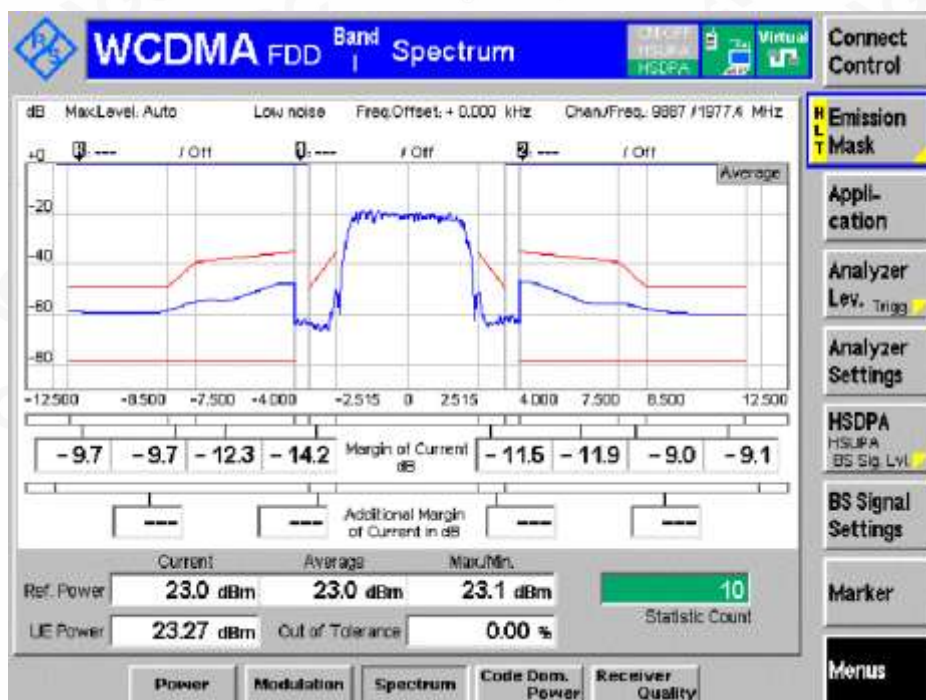
### Sub-test 4



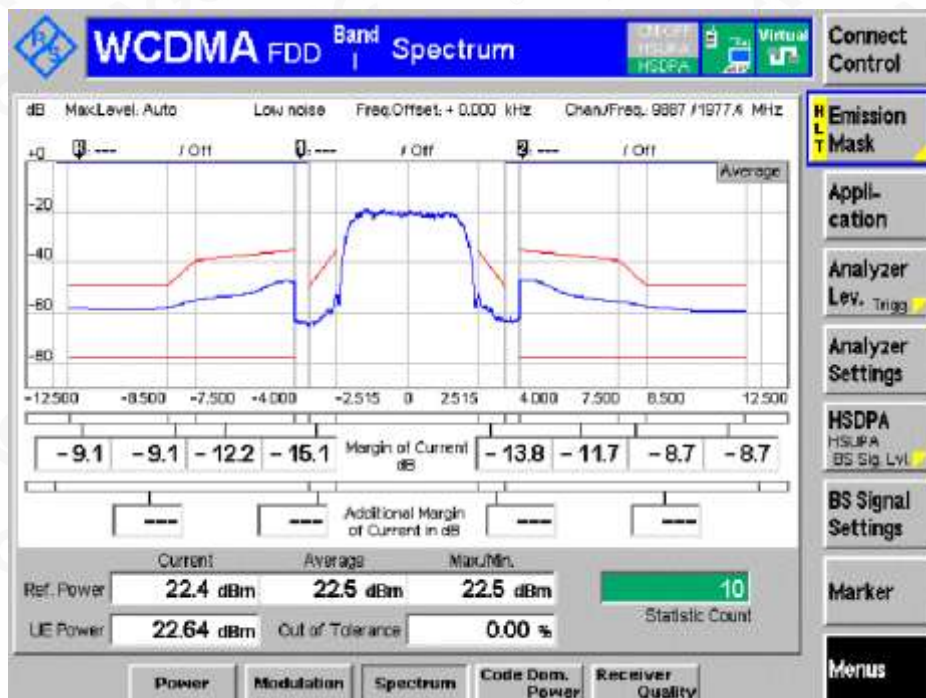


## Channel HCH

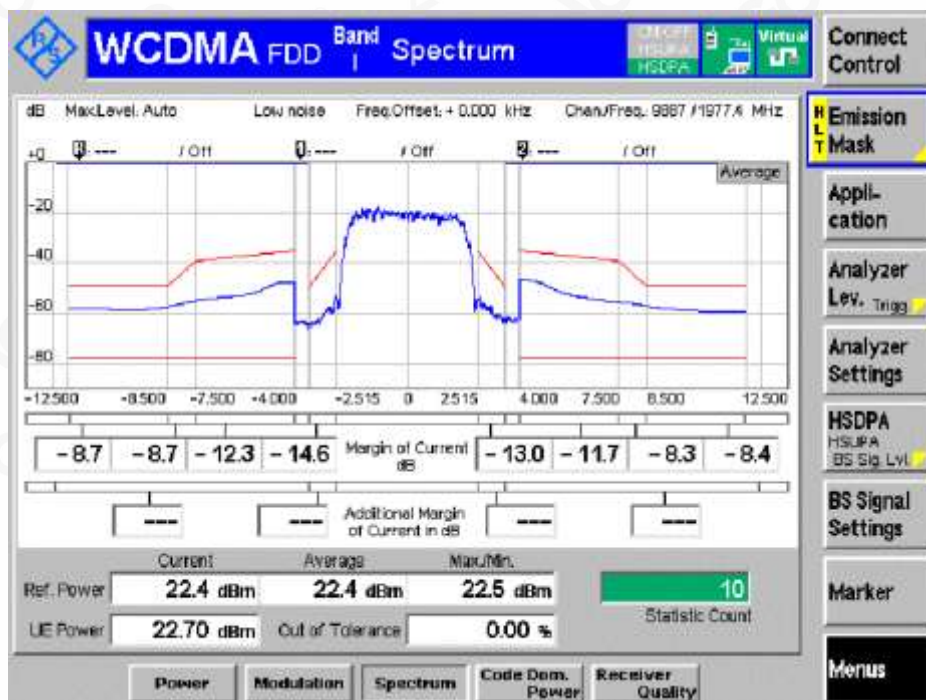
### Sub-test 1



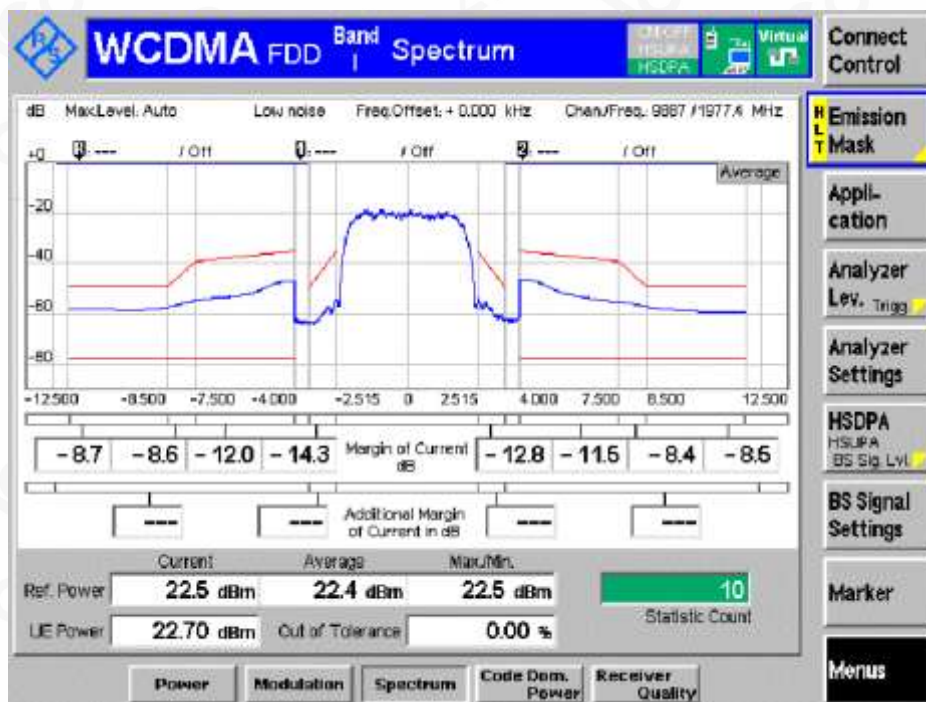
### Sub-test 2



### Sub-test 3

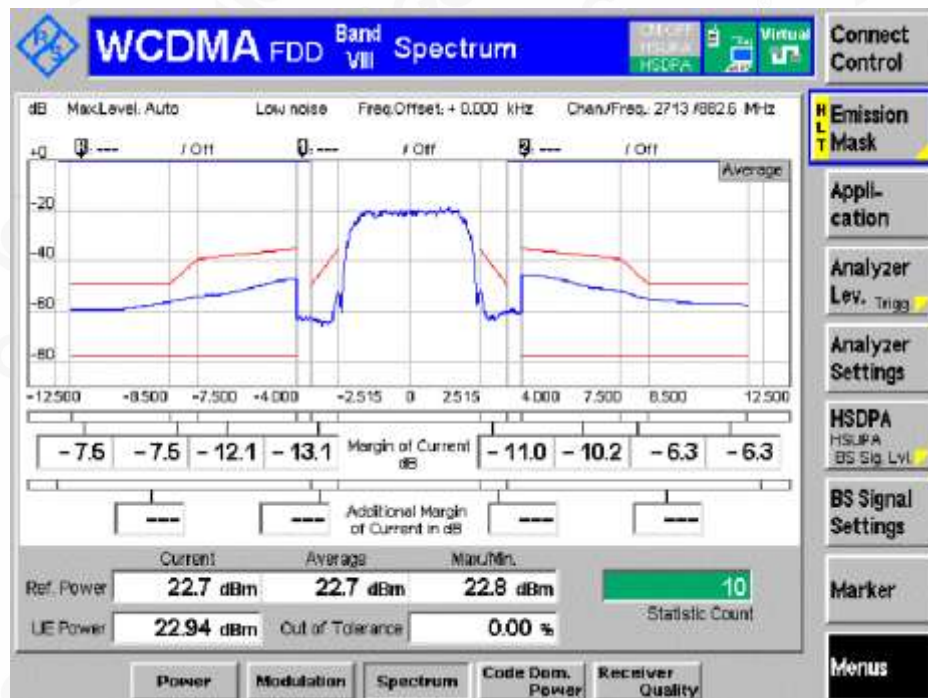


### Sub-test 4

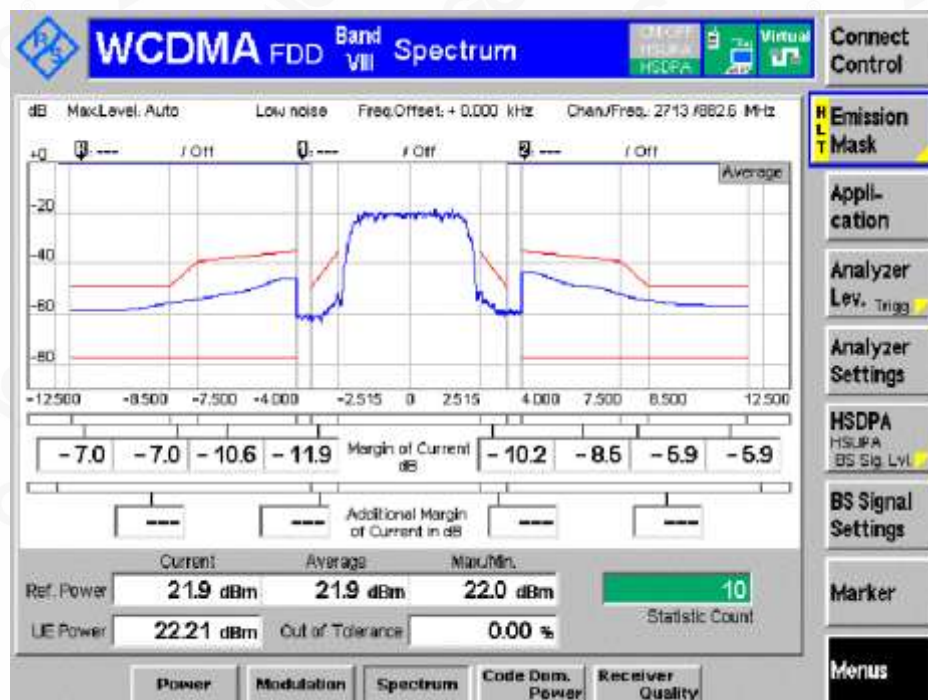




### Sub-test 1



## Sub-test 2



**WCDMA FDD Band VIII Spectrum**

MaxLevel: Auto Low noise Freq.Offset: + 0.000 kHz Chan/Freq: 2713 / 882.6 MHz

dB

0 --- / Off 0 --- / Off 0 --- / Off

Average

-12,500 -8,500 -7,500 -4,000 -2,515 0 2,515 4,000 7,500 8,500 12,500

-7.2 -7.2 -10.1 -11.3 Margin of Current dB -9.2 -8.3 -6.2 -6.2

Additional Margin of Current in dB

Current Averages Max/Min

Ref. Power 21.8 dBm 21.9 dBm 22.1 dBm

UE Power 22.15 dBm Out of Tolerance 0.00 %

Statistic Count 10

Power Modulation Spectrum Code Dem. Power Receiver Quality

Connect Control Emission Mask Application Analyzer Lev. Trigg Analyzer Settings HSDPA HSUPA BS Sig. Lvl. BS Signal Settings Marker Menus

WCDMA FDD Band VIII Spectrum

dB MaxLevel: Auto Low noise Freq.Offset: + 0.000 kHz Chan/Freq: 2713 /882.5 MHz

dB -20 -40 -60 -80

-12,500 -8,500 -7,500 -4,000 -2,515 0 2,515 4,000 7,500 8,500 12,500

Average

-7.1 -7.0 -10.2 -11.4 Margin of Current dB -8.5 -7.9 -6.9 -6.0

Current Averages Max/Min

Ref. Power 21.8 dBm 21.8 dBm 21.9 dBm

UE Power 22.13 dBm Out of Tolerance 0.00 %

Statistic Count 10

Connect Control

Emission Mask

Application

Analyzer Lev. Trigg

Analyzer Settings

HSDPA HSUPA BS Sig. Lvl

BS Signal Settings

Marker

Menus

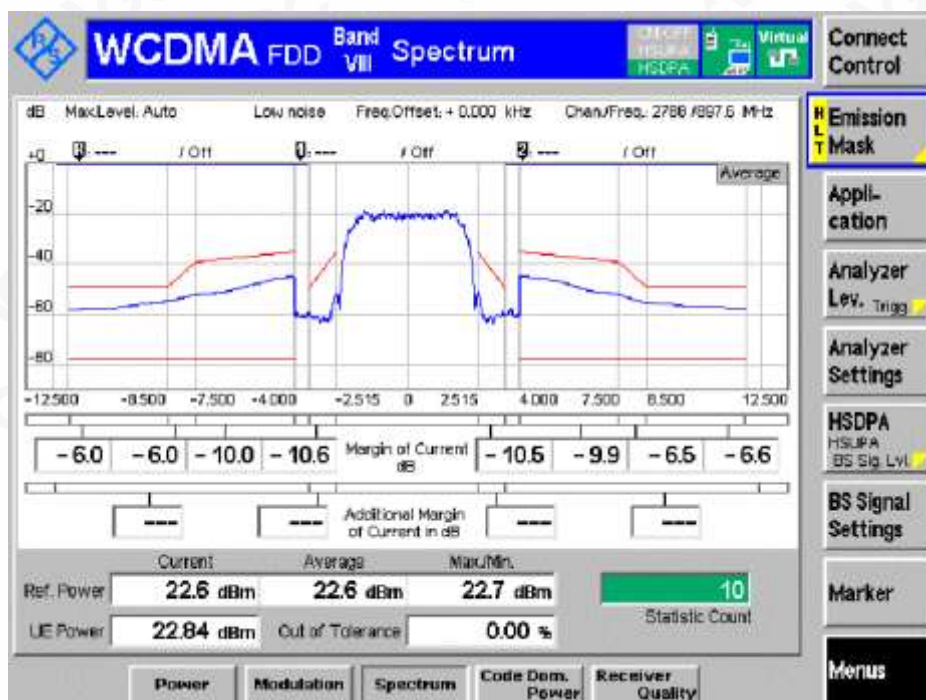
Power Modulation Spectrum Code Dem. Power Receiver Quality



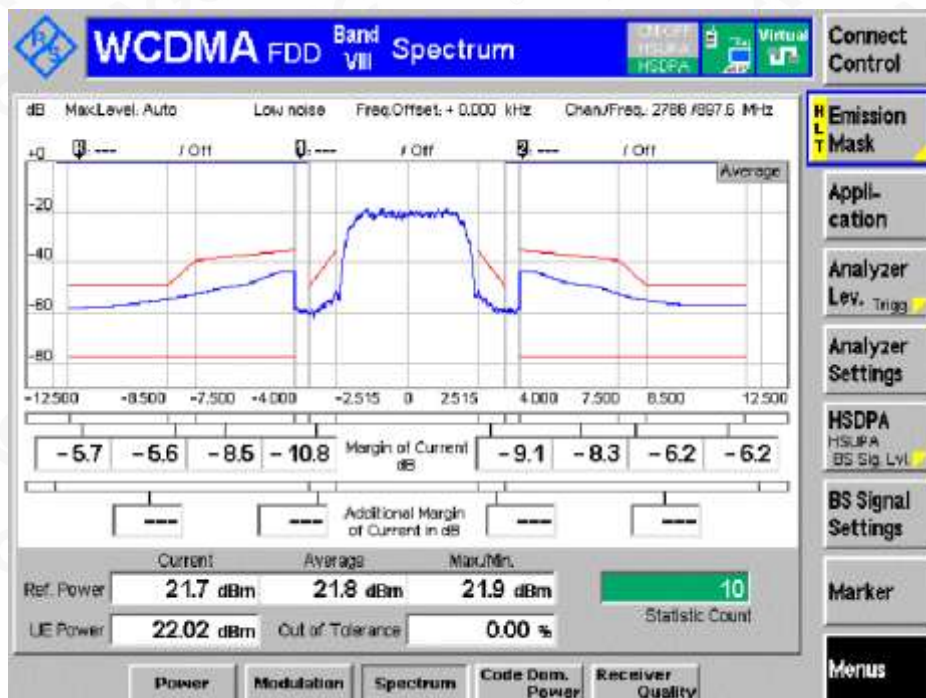


## Channel MCH

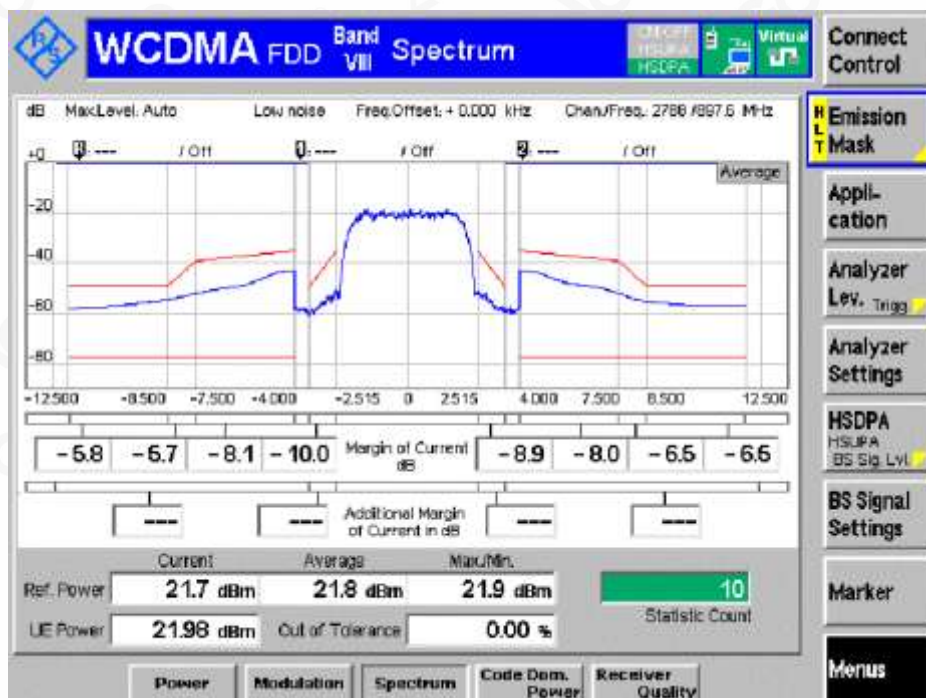
### Sub-test 1



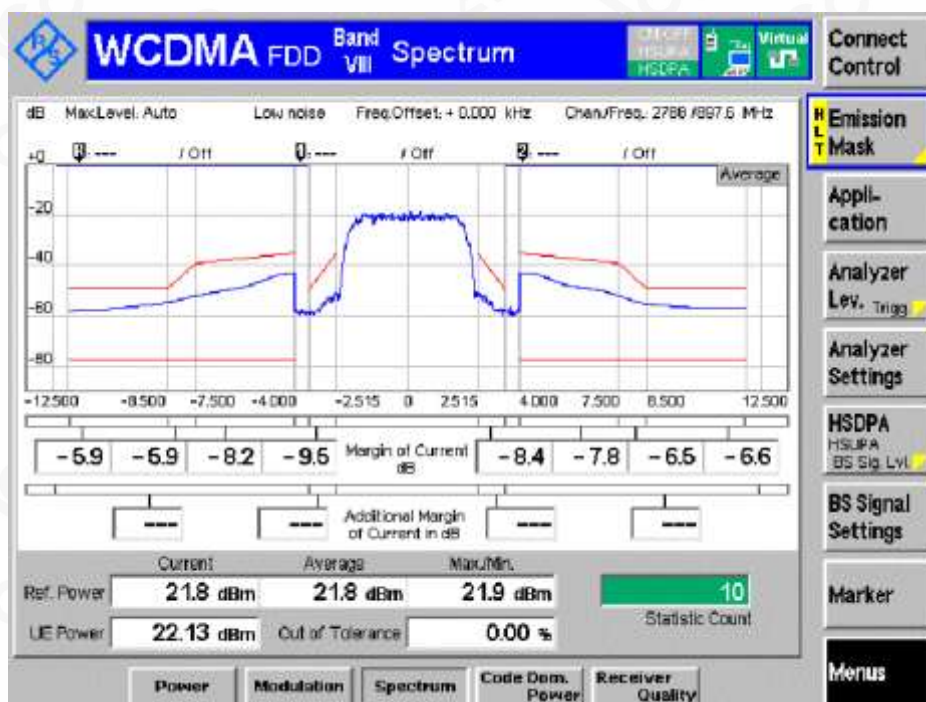
### Sub-test 2



### Sub-test 3



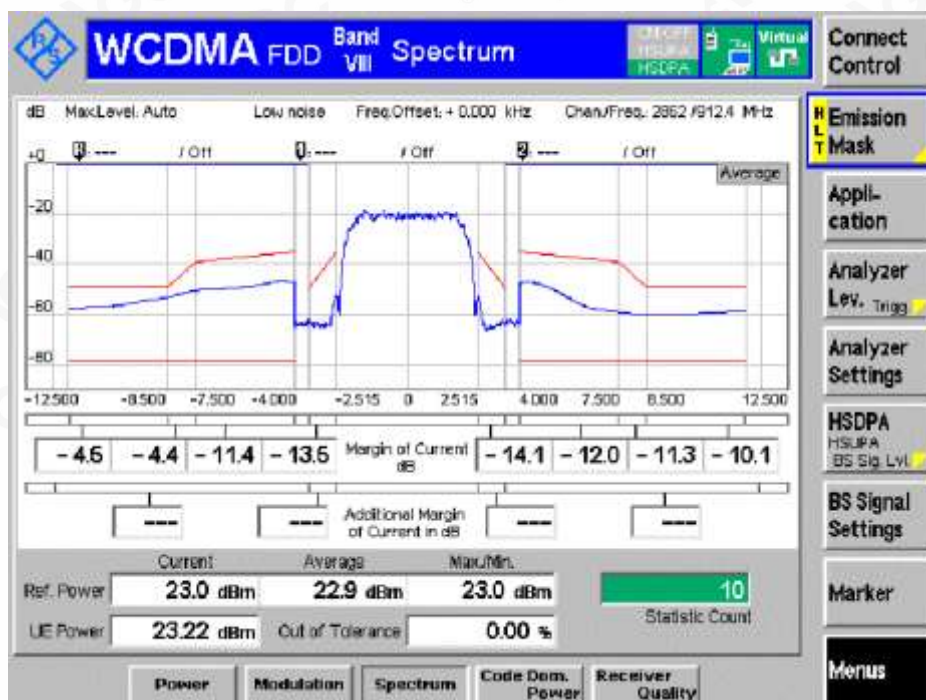
### Sub-test 4



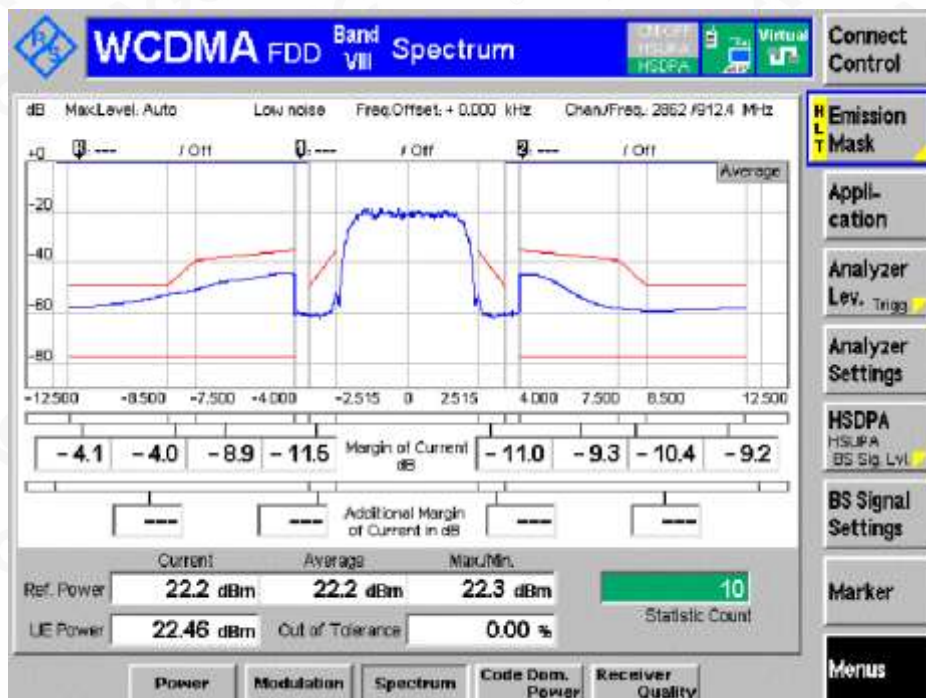


## Channel HCH

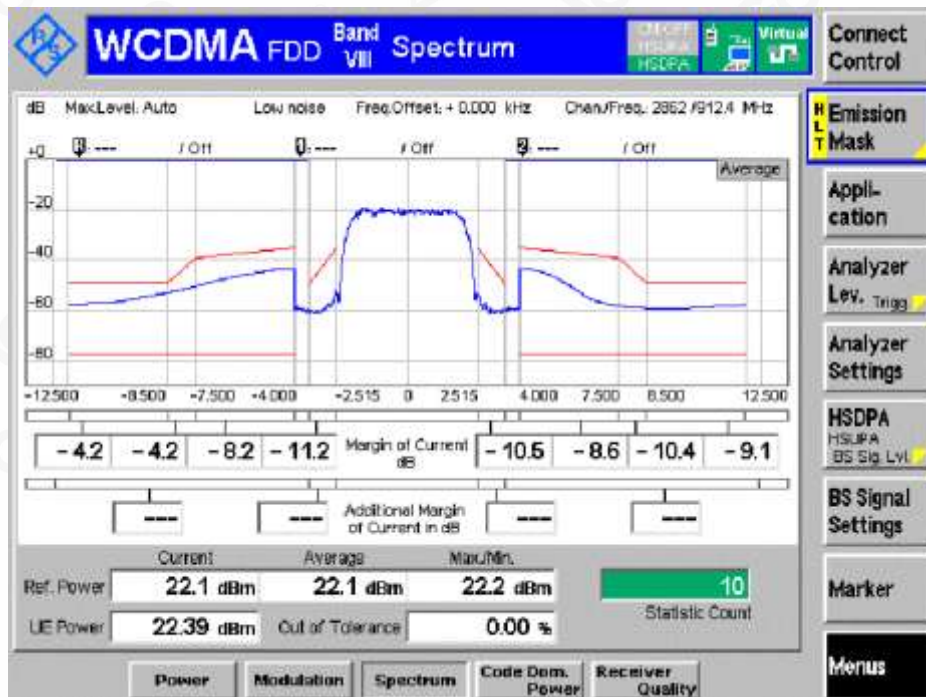
### Sub-test 1



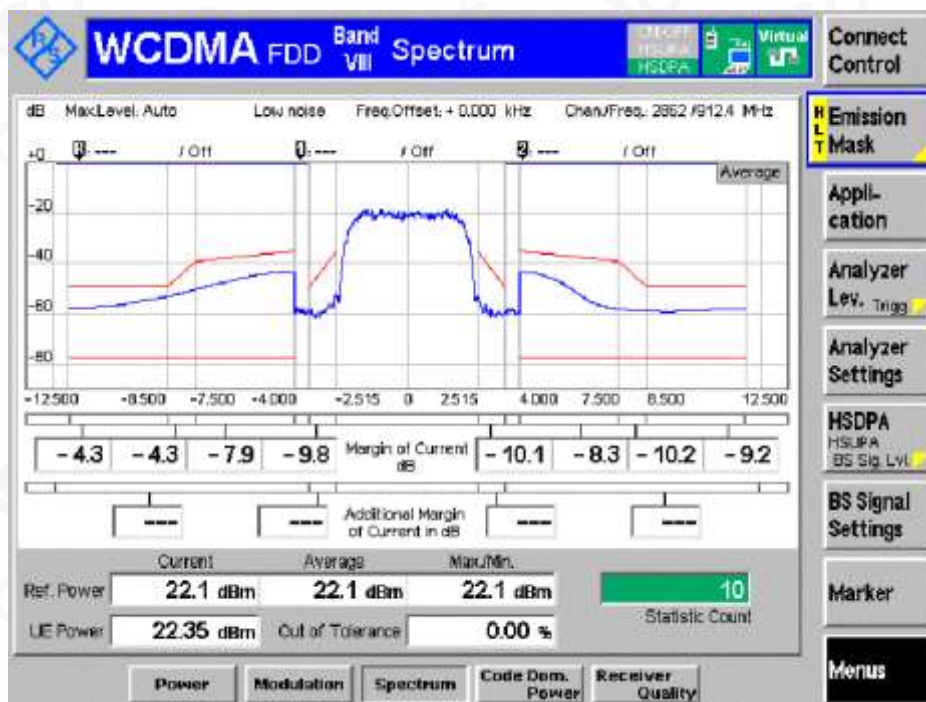
### Sub-test 2



### Sub-test 3



### Sub-test 4





## Appendix H. Transmitter adjacent channel leakage power ratio with HS-DPPCH

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

Operating Band	Test Conditions	Test Channel	Sub-test	UE Channel	Measurement Data(dBm)	Limit (dBm)	Result
Band I	TNVN	LCH	1	+5MHz	-43.80	-32.2	Pass
				-5 MHz	-44.57	-32.2	Pass
				-10MHz	-53.80	-42.2	Pass
				+10MHz	-53.68	-42.2	Pass
			2	+5MHz	-43.74	-32.2	Pass
				-5 MHz	-44.43	-32.2	Pass
				-10MHz	-53.16	-42.2	Pass
				+10MHz	-52.99	-42.2	Pass
			3	+5MHz	-43.86	-32.2	Pass
				-5 MHz	-44.60	-32.2	Pass
				-10MHz	-52.96	-42.2	Pass
				+10MHz	-52.89	-42.2	Pass
			4	+5MHz	-43.74	-32.2	Pass
				-5 MHz	-44.54	-32.2	Pass
				-10MHz	-52.89	-42.2	Pass
				+10MHz	-52.72	-42.2	Pass
		MCH	1	+5MHz	-45.96	-32.2	Pass
				-5 MHz	-45.86	-32.2	Pass
				-10MHz	-53.65	-42.2	Pass
				+10MHz	-53.67	-42.2	Pass
			2	+5MHz	-44.63	-32.2	Pass
				-5 MHz	-44.43	-32.2	Pass
				-10MHz	-52.76	-42.2	Pass
				+10MHz	-52.91	-42.2	Pass
			3	+5MHz	-43.57	-32.2	Pass



				-5 MHz	-43.33	-32.2	Pass
				-10MHz	-52.75	-42.2	Pass
				+10MHz	-52.70	-42.2	Pass
			4	+5MHz	-43.25	-32.2	Pass
				-5 MHz	-42.73	-32.2	Pass
				-10MHz	-52.74	-42.2	Pass
				+10MHz	-52.75	-42.2	Pass
		HCH	1	+5MHz	-43.87	-32.2	Pass
				-5 MHz	-44.35	-32.2	Pass
				-10MHz	-53.84	-42.2	Pass
				+10MHz	-53.94	-42.2	Pass
			2	+5MHz	-43.82	-32.2	Pass
				-5 MHz	-44.31	-32.2	Pass
				-10MHz	-53.12	-42.2	Pass
				+10MHz	-53.34	-42.2	Pass
			3	+5MHz	-43.60	-32.2	Pass
				-5 MHz	-44.33	-32.2	Pass
				-10MHz	-53.06	-42.2	Pass
				+10MHz	-53.10	-42.2	Pass
			4	+5MHz	-43.62	-32.2	Pass
				-5 MHz	-44.29	-32.2	Pass
				-10MHz	-52.91	-42.2	Pass
				+10MHz	-53.18	-42.2	Pass



Operating Band	Test Conditions	Test Channel	Sub-test	UE Channel	Measurement Data(dBm)	Limit (dBm)	Result
Band VIII	TNVN	LCH	1	+5MHz	-41.51	-32.2	Pass
				-5 MHz	-44.06	-32.2	Pass
				-10MHz	-52.89	-42.2	Pass
				+10MHz	-50.94	-42.2	Pass
			2	+5MHz	-40.14	-32.2	Pass
				-5 MHz	-42.25	-32.2	Pass
				-10MHz	-52.26	-42.2	Pass
				+10MHz	-50.79	-42.2	Pass
			3	+5MHz	-39.88	-32.2	Pass
				-5 MHz	-42.03	-32.2	Pass
				-10MHz	-52.22	-42.2	Pass
				+10MHz	-50.85	-42.2	Pass
			4	+5MHz	-39.69	-32.2	Pass
				-5 MHz	-41.85	-32.2	Pass
				-10MHz	-52.30	-42.2	Pass
				+10MHz	-50.87	-42.2	Pass
		MCH	1	+5MHz	-41.27	-32.2	Pass
				-5 MHz	-41.94	-32.2	Pass
				-10MHz	-51.12	-42.2	Pass
				+10MHz	-51.00	-42.2	Pass
			2	+5MHz	-40.05	-32.2	Pass
				-5 MHz	-40.54	-32.2	Pass
				-10MHz	-50.59	-42.2	Pass
				+10MHz	-51.02	-42.2	Pass
			3	+5MHz	-39.65	-32.2	Pass
				-5 MHz	-40.11	-32.2	Pass



				-10MHz	-50.94	-42.2	Pass
				+10MHz	-51.19	-42.2	Pass
			4	+5MHz	-39.45	-32.2	Pass
				-5 MHz	-40.01	-32.2	Pass
				-10MHz	-51.01	-42.2	Pass
				+10MHz	-51.05	-42.2	Pass
		HCH	1	+5MHz	-44.52	-32.2	Pass
				-5 MHz	-43.01	-32.2	Pass
				-10MHz	-50.16	-42.2	Pass
				+10MHz	-54.18	-42.2	Pass
			2	+5MHz	-41.68	-32.2	Pass
				-5 MHz	-40.51	-32.2	Pass
				-10MHz	-49.84	-42.2	Pass
				+10MHz	-53.41	-42.2	Pass
			3	+5MHz	-40.99	-32.2	Pass
				-5 MHz	-39.87	-32.2	Pass
				-10MHz	-49.75	-42.2	Pass
				+10MHz	-53.52	-42.2	Pass
			4	+5MHz	-40.60	-32.2	Pass
				-5 MHz	-39.62	-32.2	Pass
				-10MHz	-49.71	-42.2	Pass
				+10MHz	-53.41	-42.2	Pass



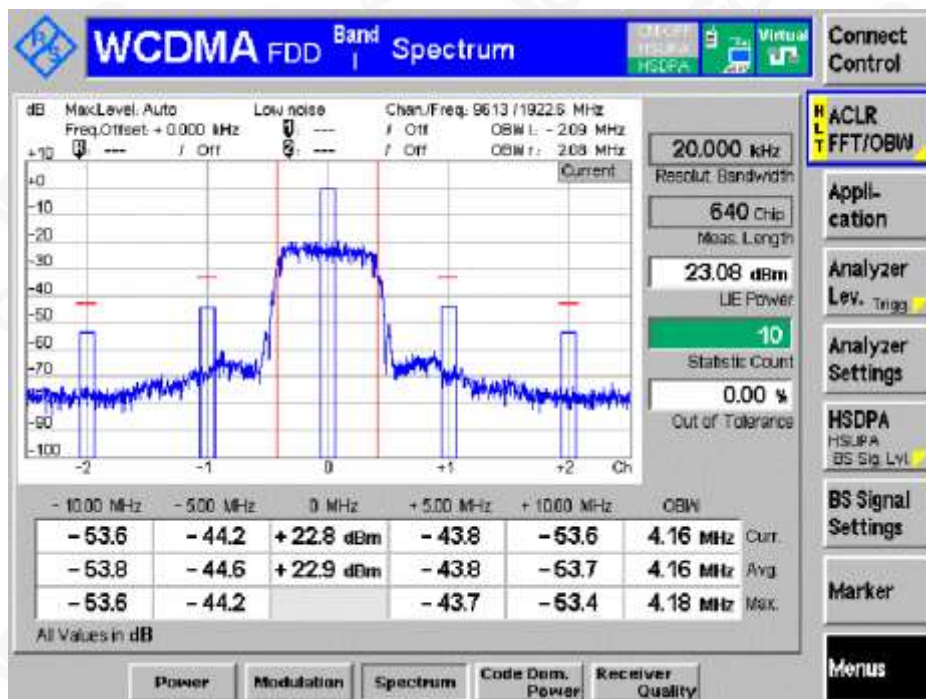


# BAND I

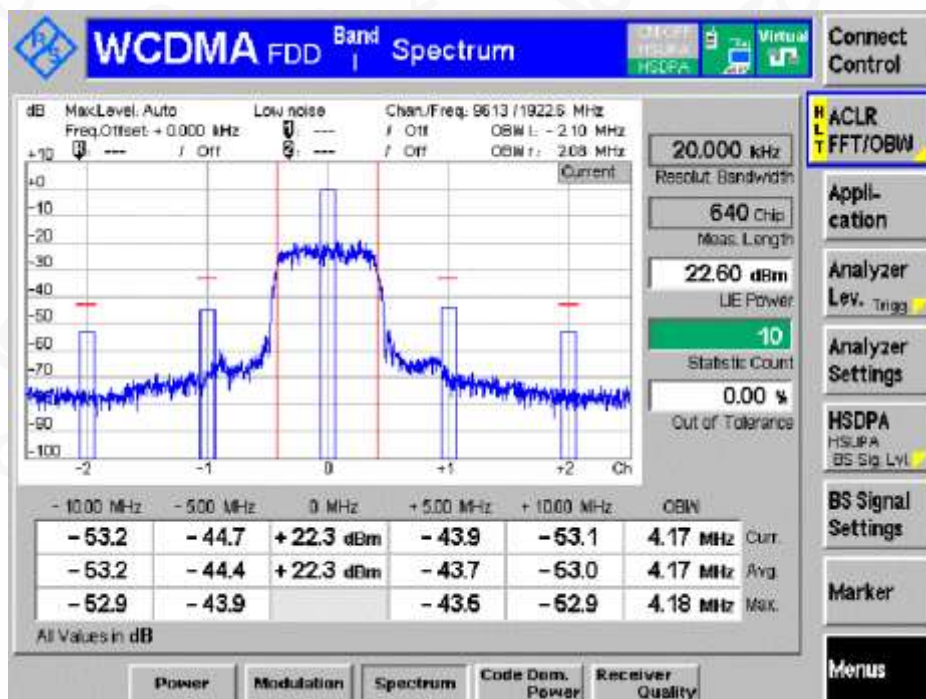
## TNVN

### Channel LCH

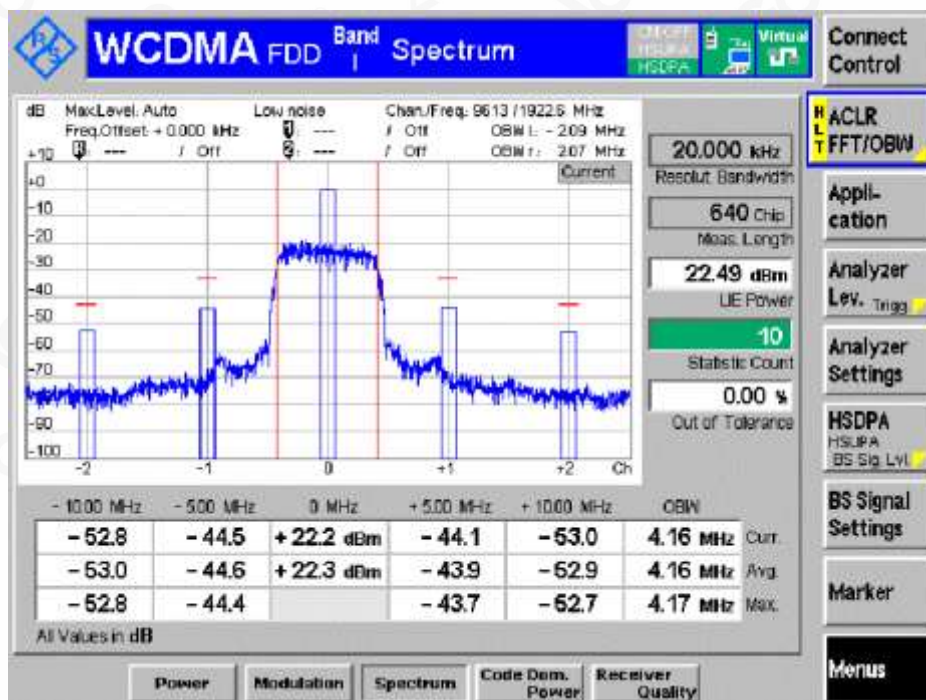
#### Sub-test 1



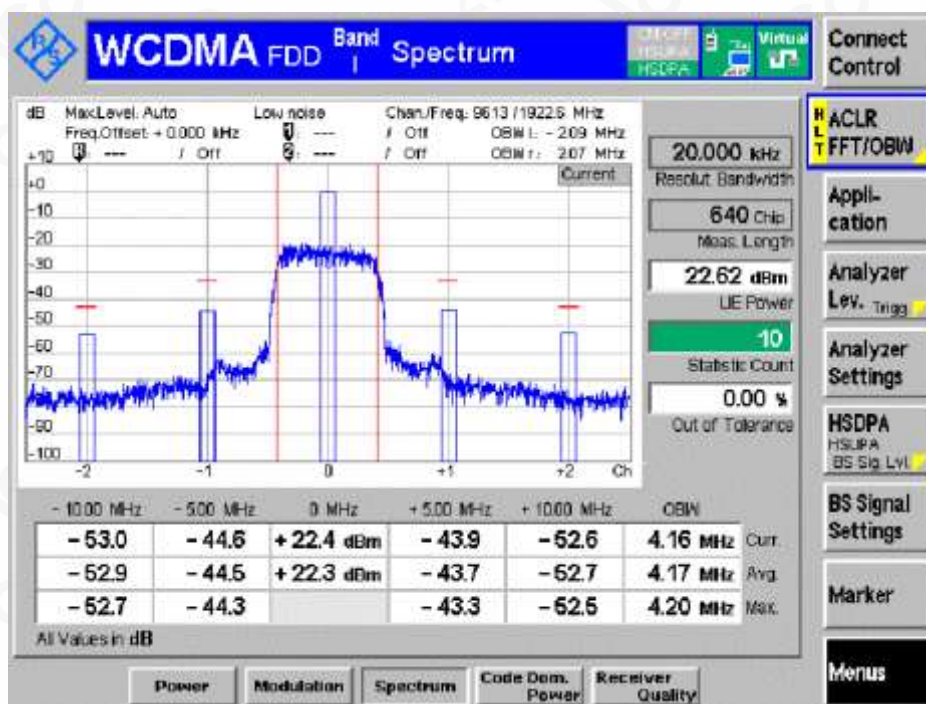
#### Sub-test 2



### Sub-test 3



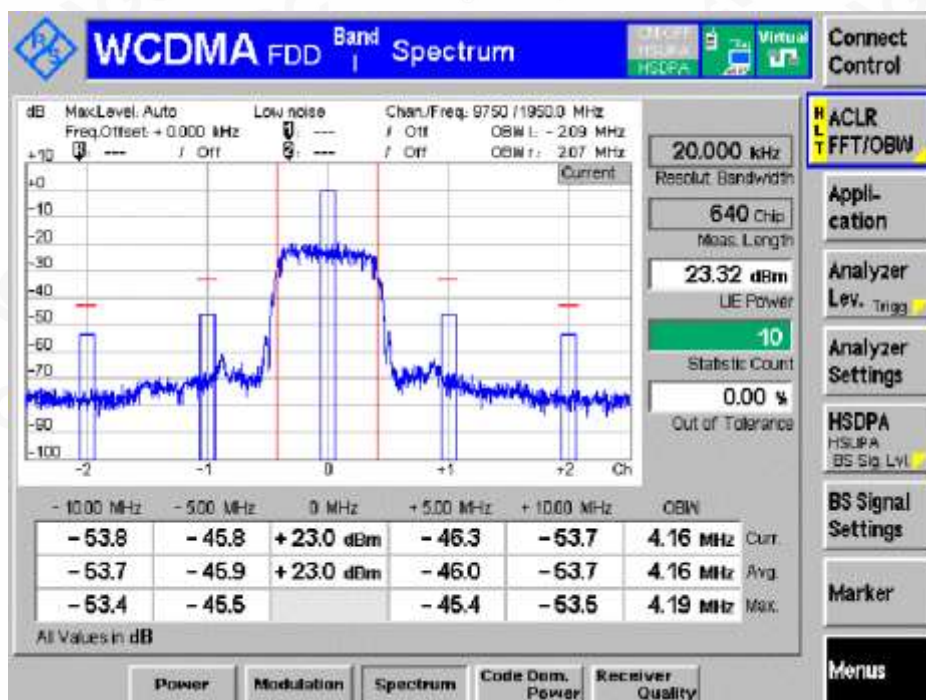
### Sub-test 4



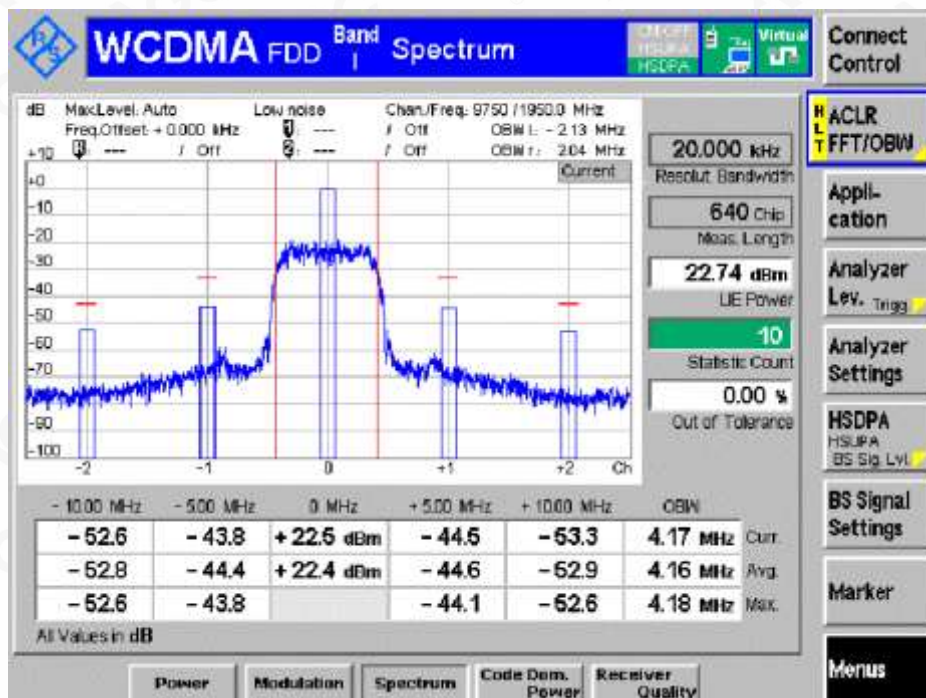


## Channel MCH

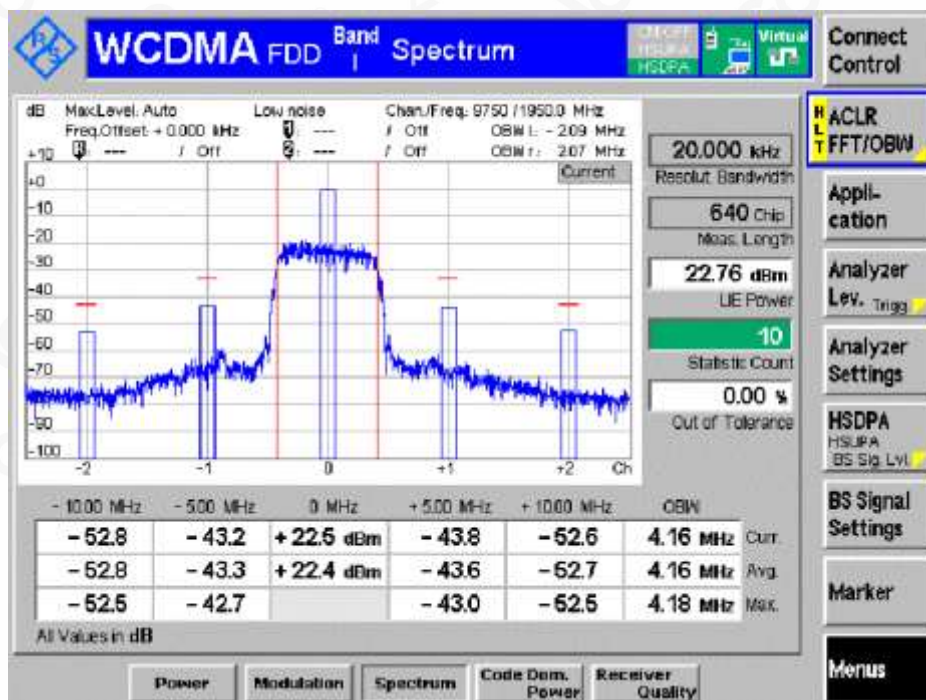
### Sub-test 1



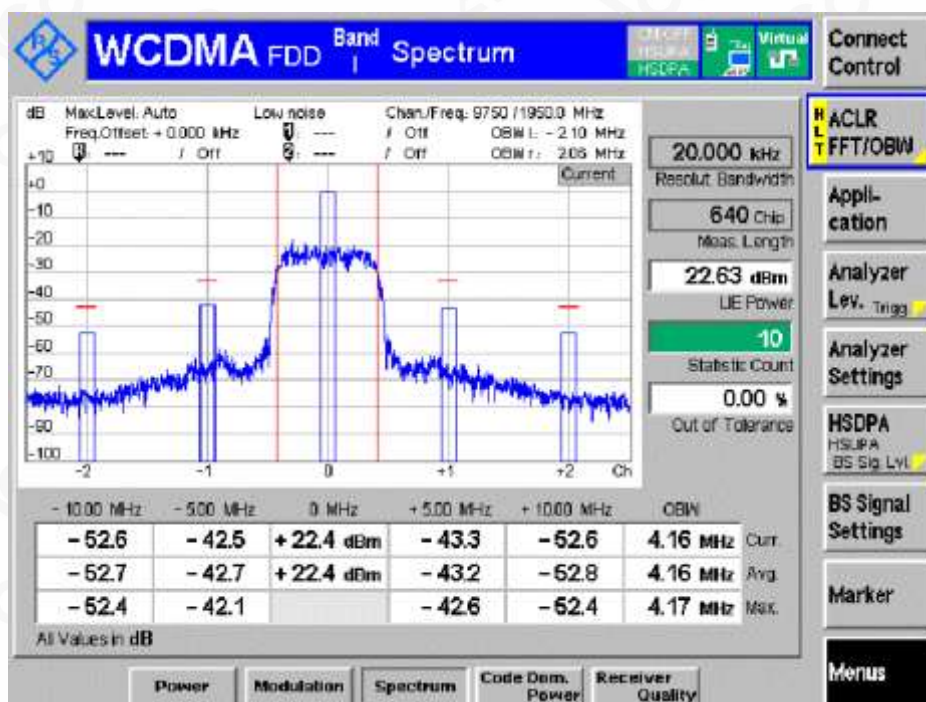
### Sub-test 2



### Sub-test 3



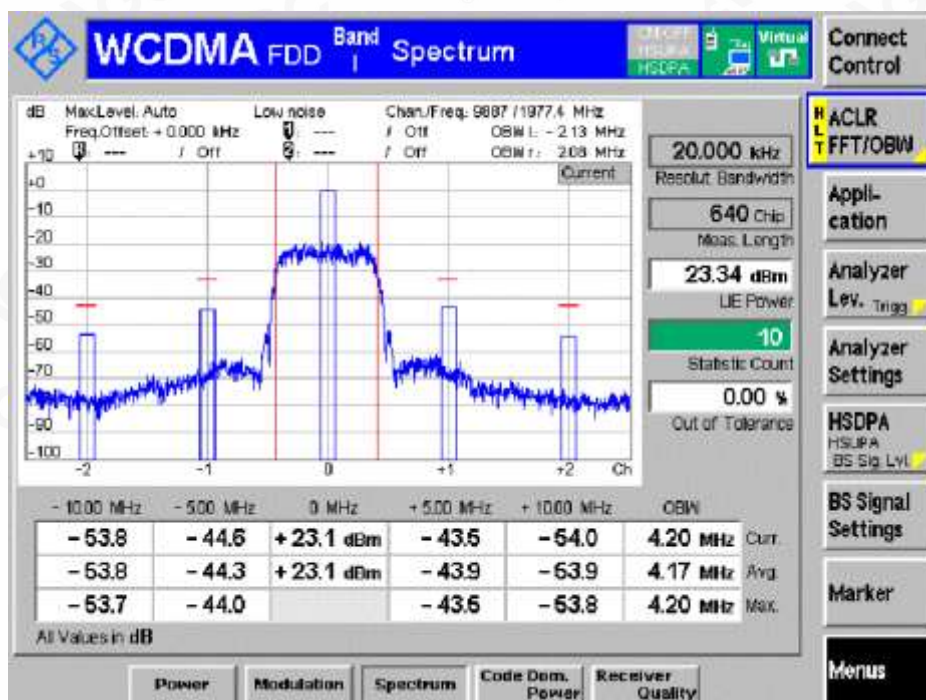
### Sub-test 4



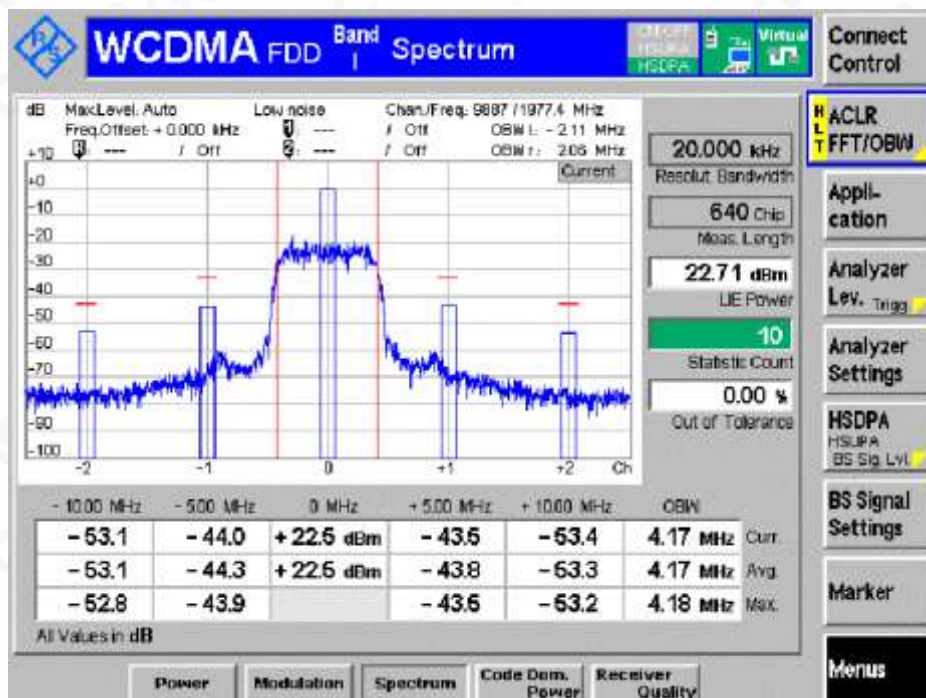


## Channel HCH

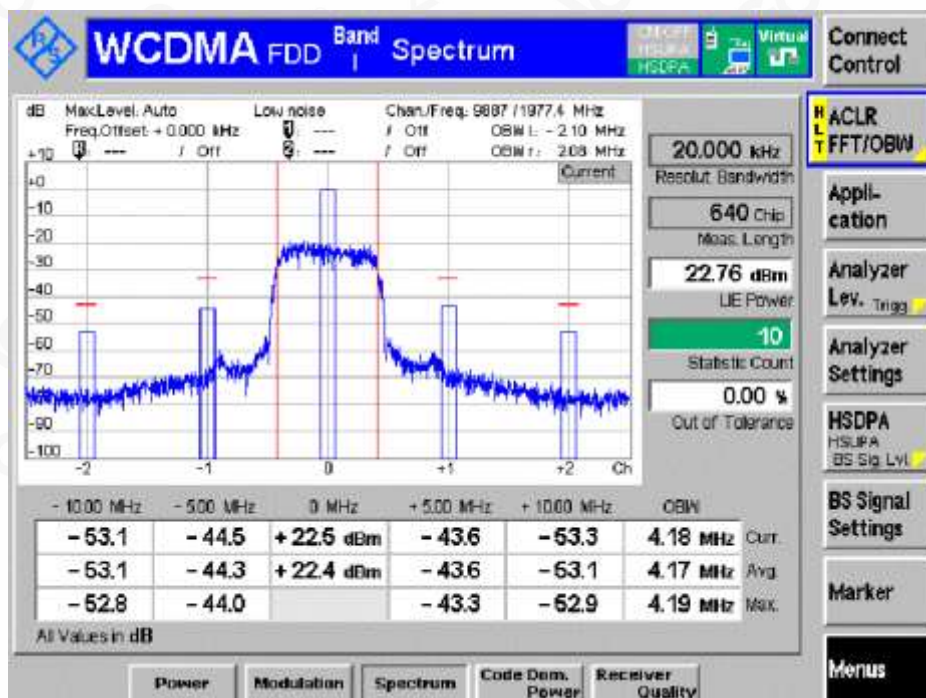
### Sub-test 1



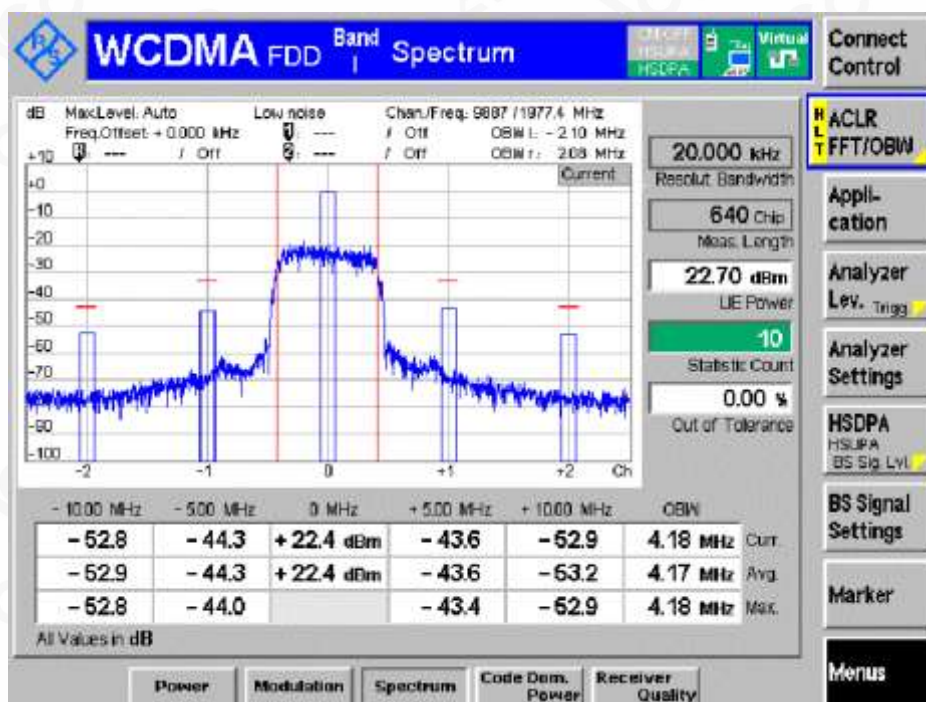
### Sub-test 2



### Sub-test 3



### Sub-test 4



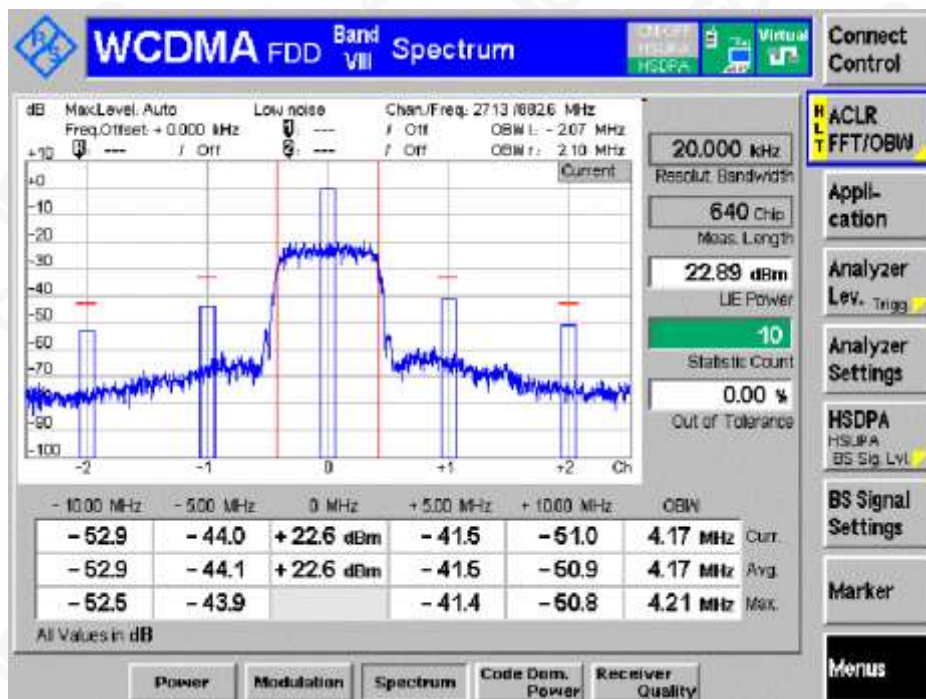


## BAND VIII

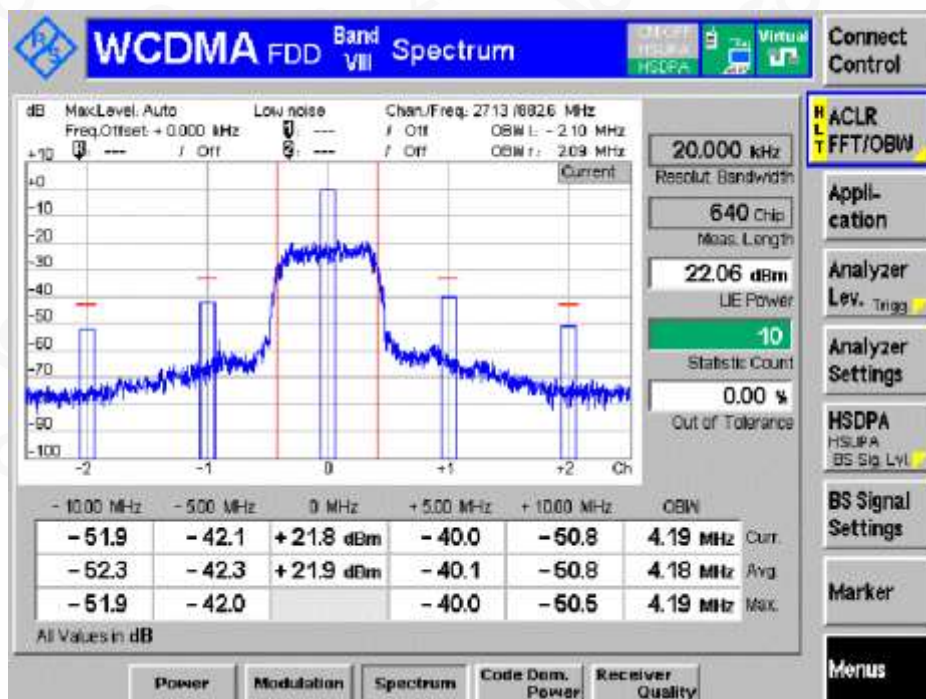
## TNPN

## Channel LCH

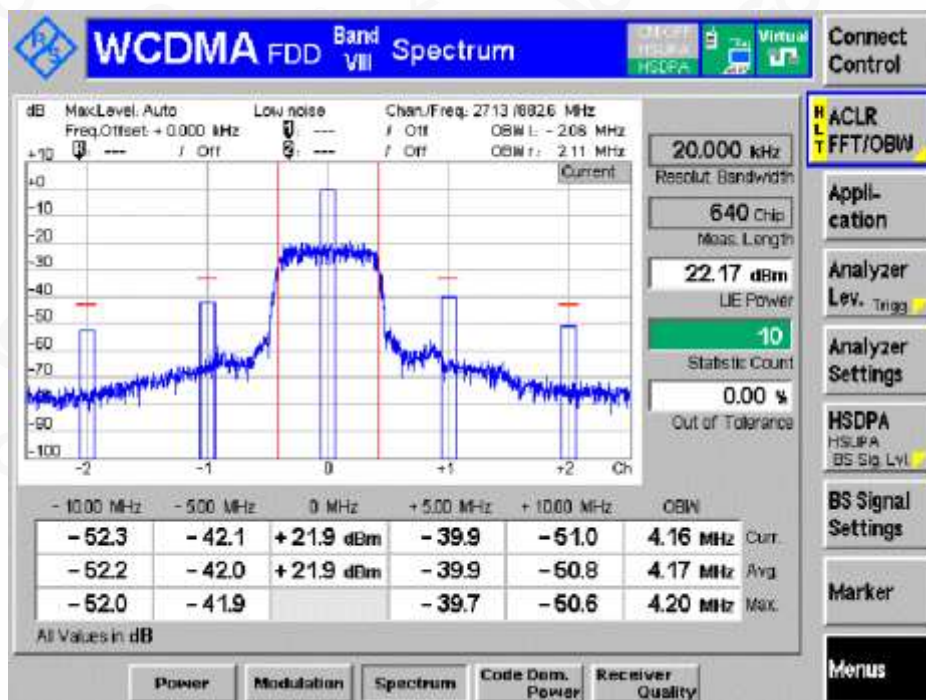
## Sub-test 1



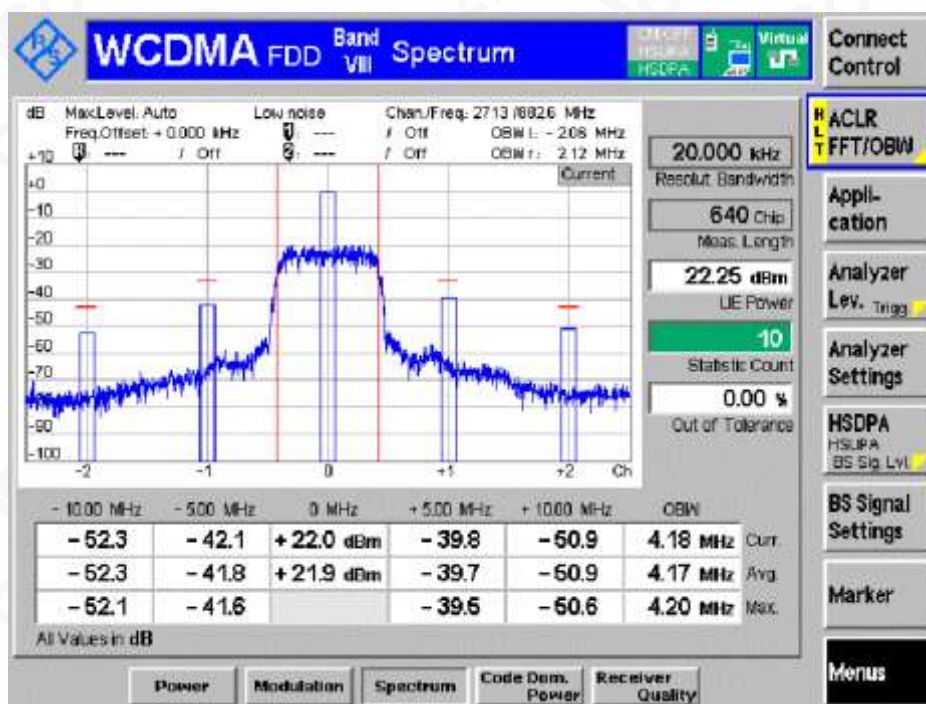
## Sub-test 2



### Sub-test 3



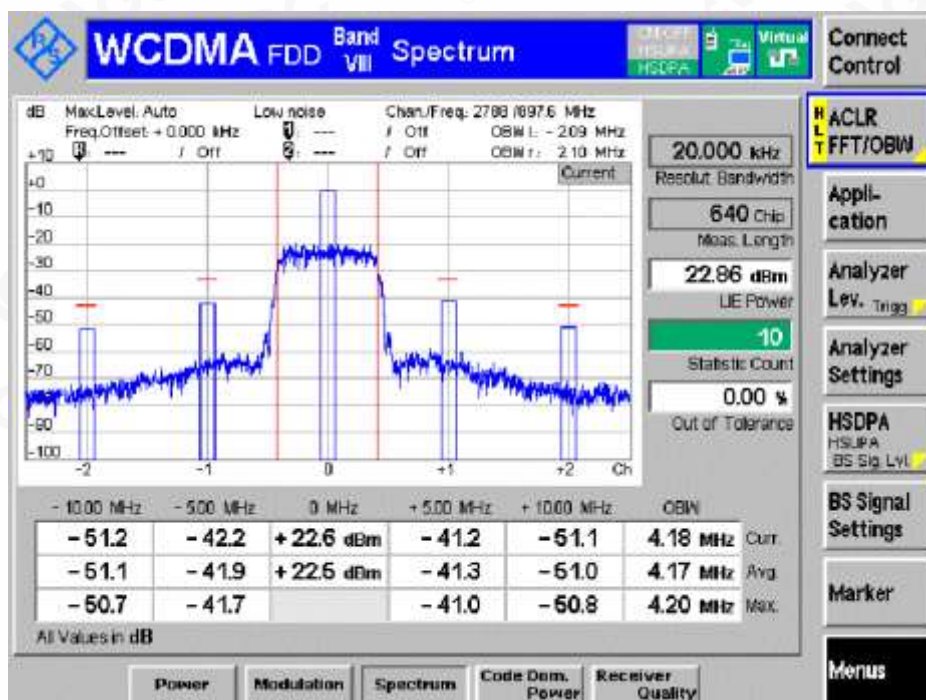
### Sub-test 4



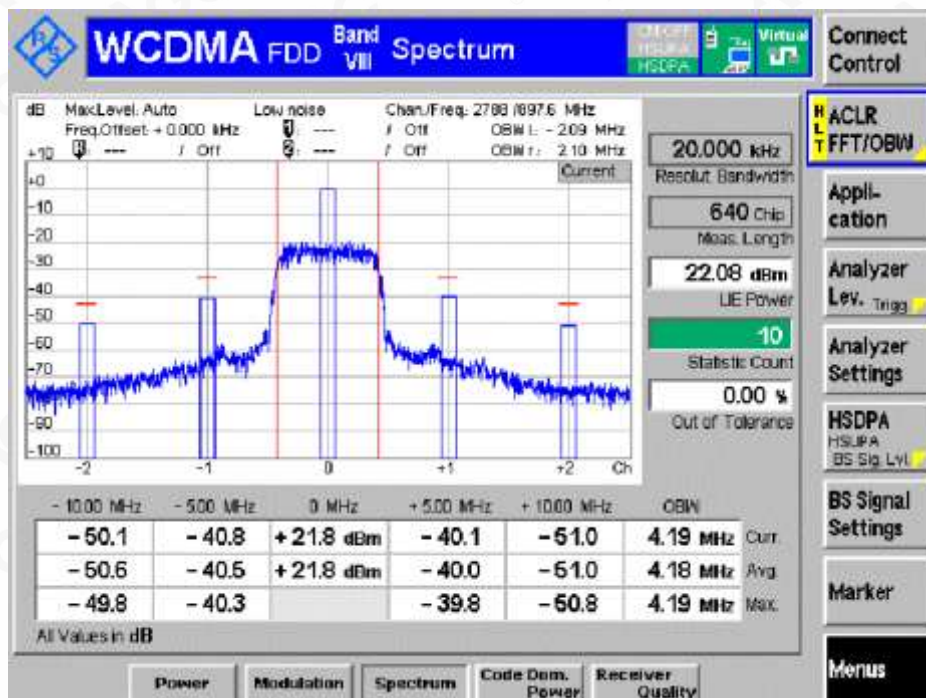


## Channel MCH

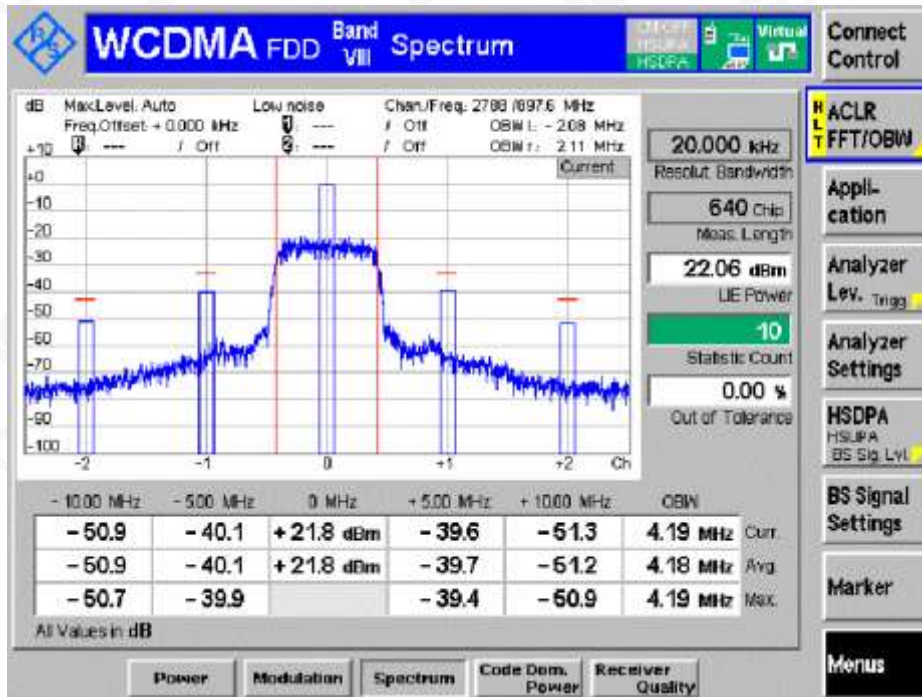
### Sub-test 1



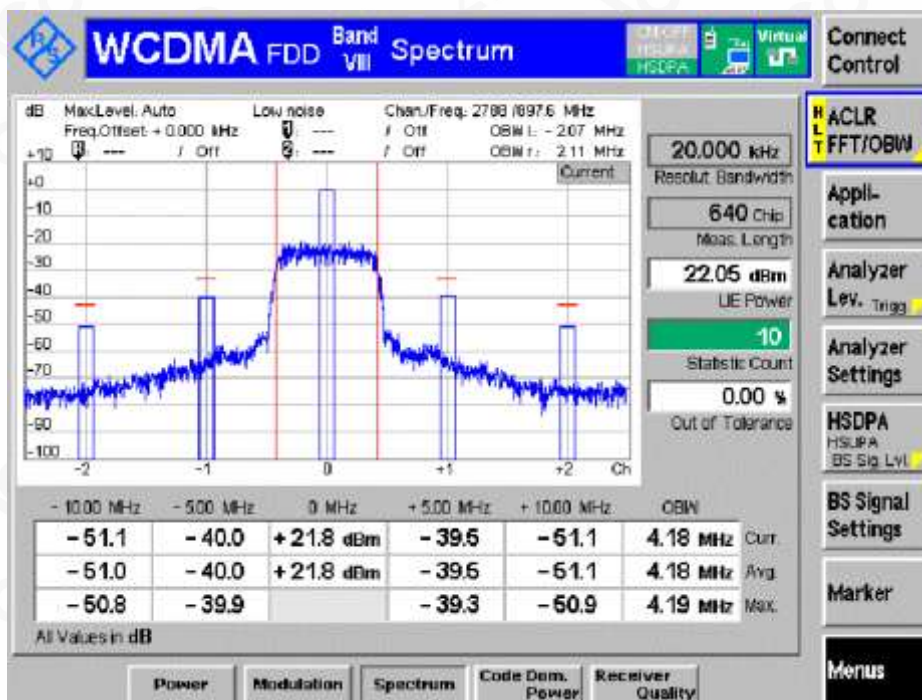
### Sub-test 2



### Sub-test 3



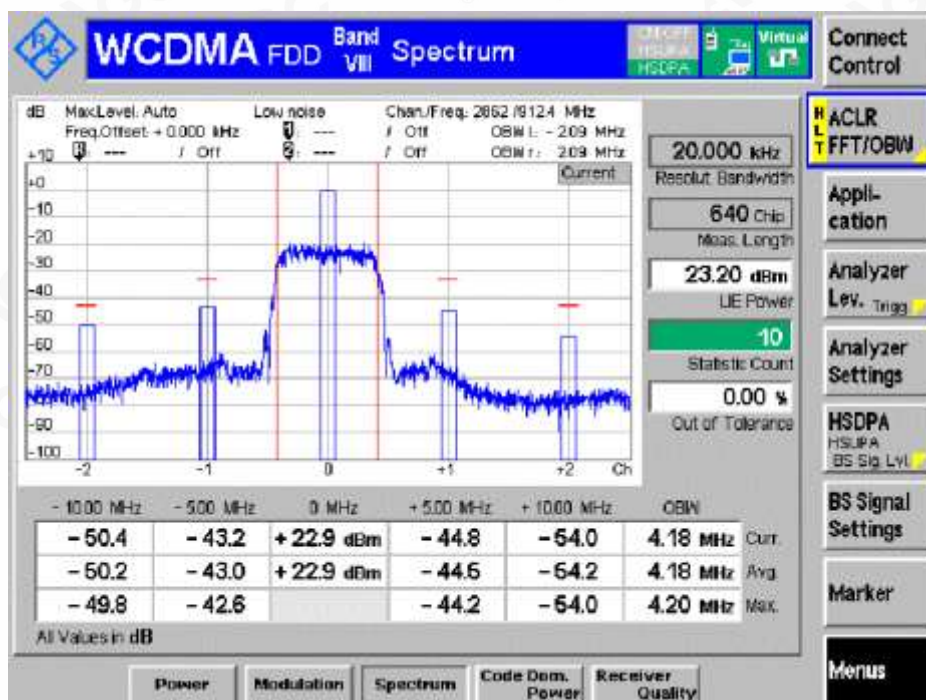
### Sub-test 4



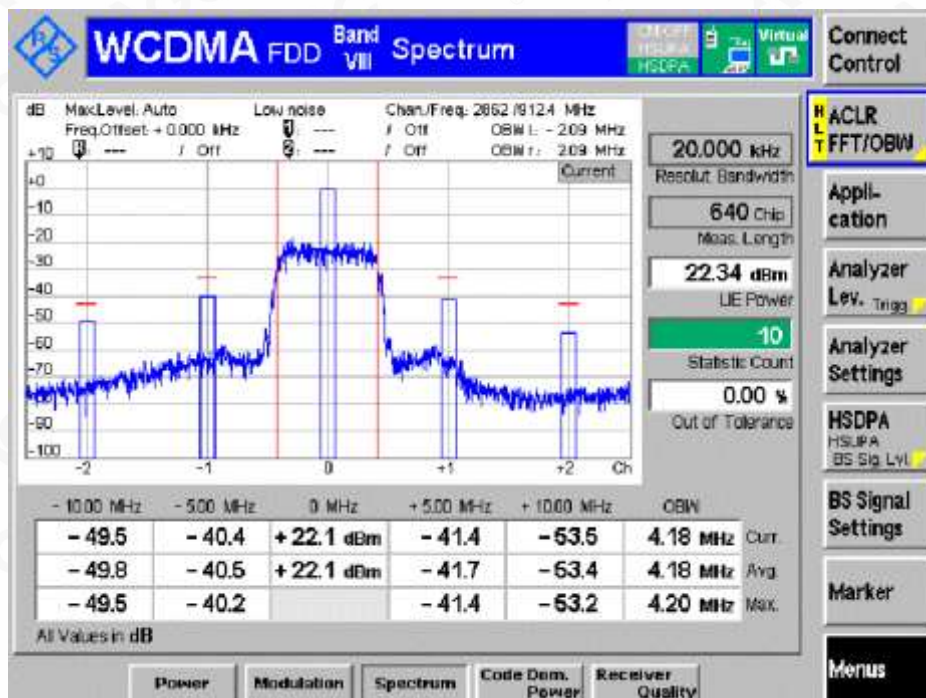


## Channel HCH

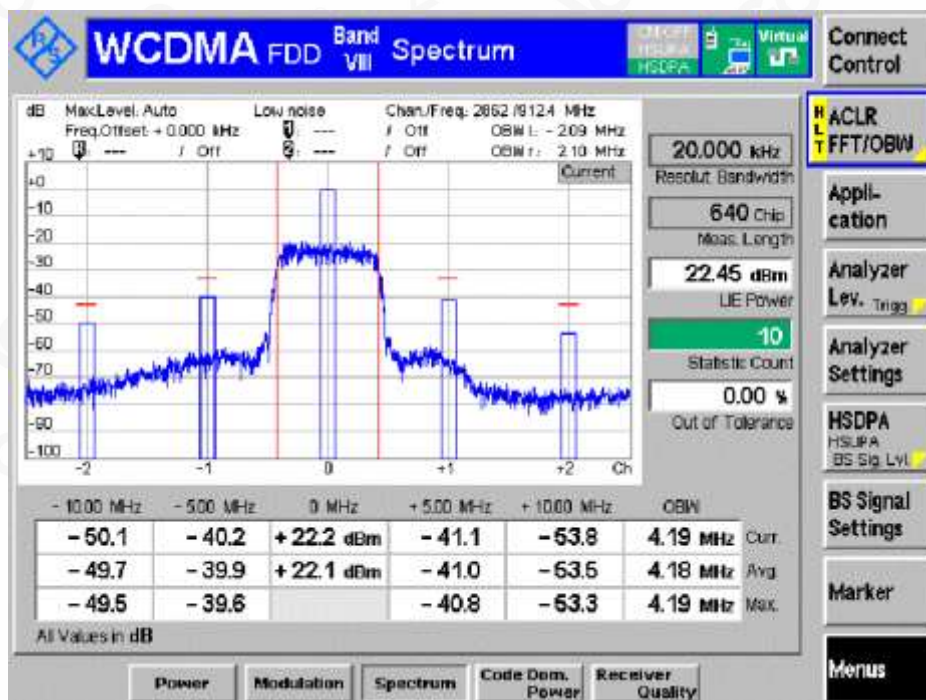
### Sub-test 1



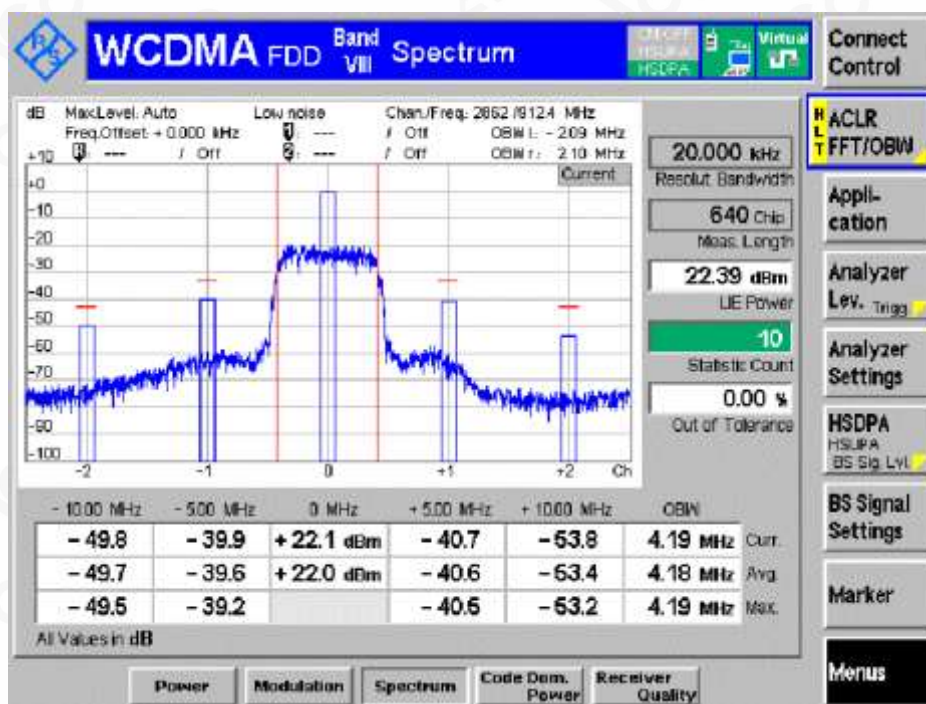
### Sub-test 2



### Sub-test 3



### Sub-test 4





### Appendix I. Transmitter maximum output power with HS-DPCCH and E-DCH

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

Operating Band	Test Conditions	Test Channel	Sub-test	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	1	20.89	+24(+1.7/-6.7)	Pass
			2	21.08	+22(+3.7/-5.2)	Pass
			3	21.96	+23(+2.7/-5.2)	Pass
			4	20.37	+22(+3.7/-5.2)	Pass
			5	20.35	+24(+1.7/-3.7)	Pass
		MCH	1	20.99	+24(+1.7/-6.7)	Pass
			2	21.19	+22(+3.7/-5.2)	Pass
			3	22.02	+23(+2.7/-5.2)	Pass
			4	20.51	+22(+3.7/-5.2)	Pass
			5	20.47	+24(+1.7/-3.7)	Pass
		HCH	1	21.05	+24(+1.7/-6.7)	Pass
			2	21.32	+22(+3.7/-5.2)	Pass
			3	22.08	+23(+2.7/-5.2)	Pass
			4	20.47	+22(+3.7/-5.2)	Pass
			5	20.48	+24(+1.7/-3.7)	Pass



Operating Band	Test Conditions	Test Channel	Sub-test	Measurement Data(dBm)	Limit(dBm)	Result
Band VIII	TNVN	LCH	1	21.75	+24(+1.7/-6.7)	Pass
			2	21.82	+22(+3.7/-5.2)	Pass
			3	22.81	+23(+2.7/-5.2)	Pass
			4	21.17	+22(+3.7/-5.2)	Pass
			5	20.84	+24(+1.7/-3.7)	Pass
		MCH	1	21.70	+24(+1.7/-6.7)	Pass
			2	21.82	+22(+3.7/-5.2)	Pass
			3	22.74	+23(+2.7/-5.2)	Pass
			4	21.13	+22(+3.7/-5.2)	Pass
			5	20.74	+24(+1.7/-3.7)	Pass
		HCH	1	21.99	+24(+1.7/-6.7)	Pass
			2	22.06	+22(+3.7/-5.2)	Pass
			3	22.92	+23(+2.7/-5.2)	Pass
			4	21.40	+22(+3.7/-5.2)	Pass
			5	20.88	+24(+1.7/-3.7)	Pass



### Appendix J. Transmitter spectrum emission mask with HS-DPCCH and E-DCH

Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band I	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS
		5	PASS	PASS	PASS

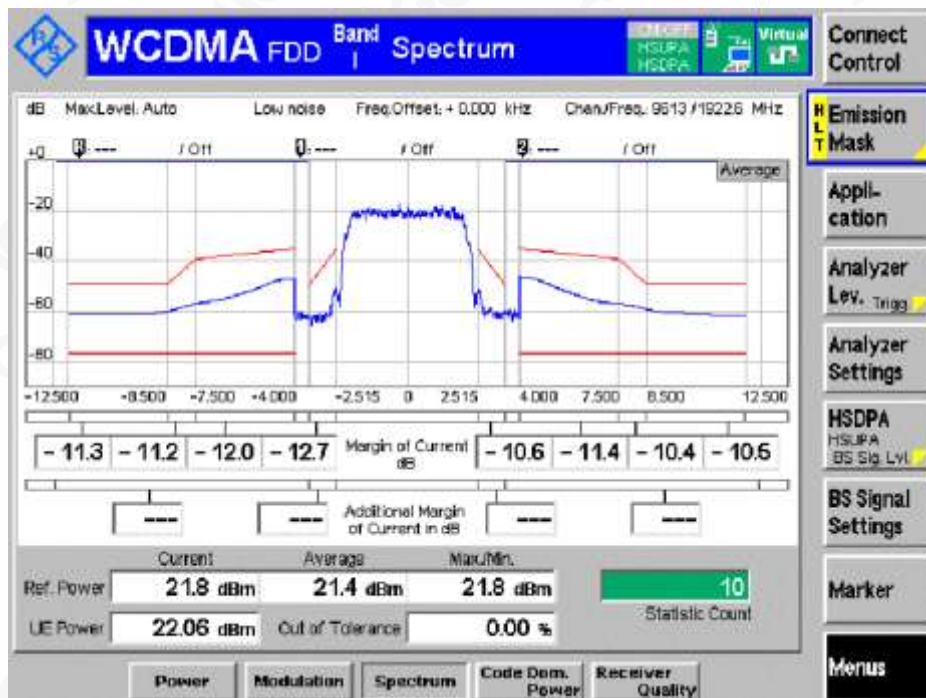
Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band VIII	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS
		5	PASS	PASS	PASS



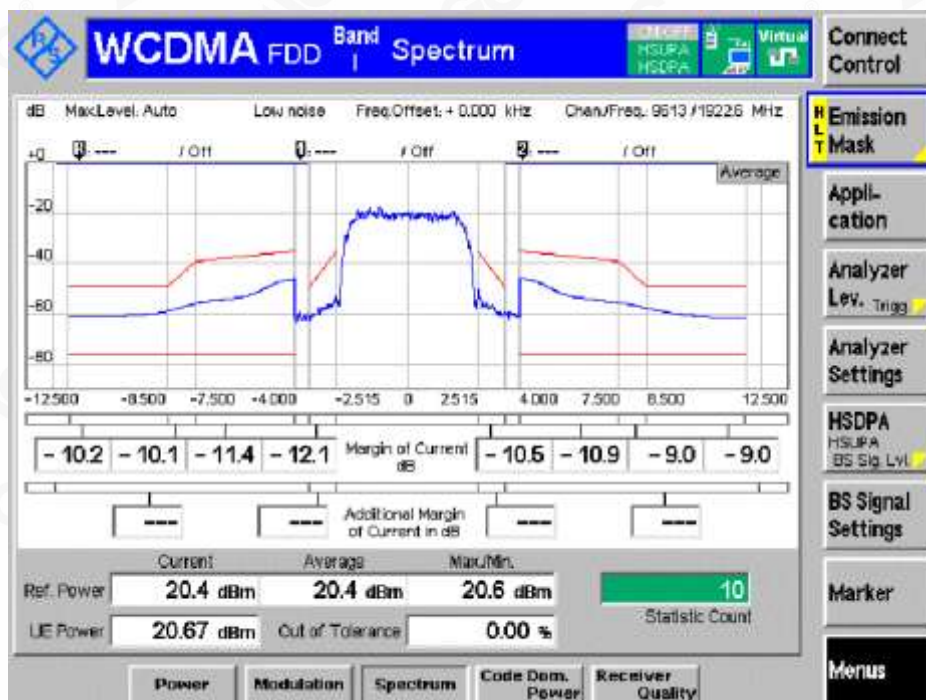
## BAND 1

### Channel LCH

#### Sub-test 1

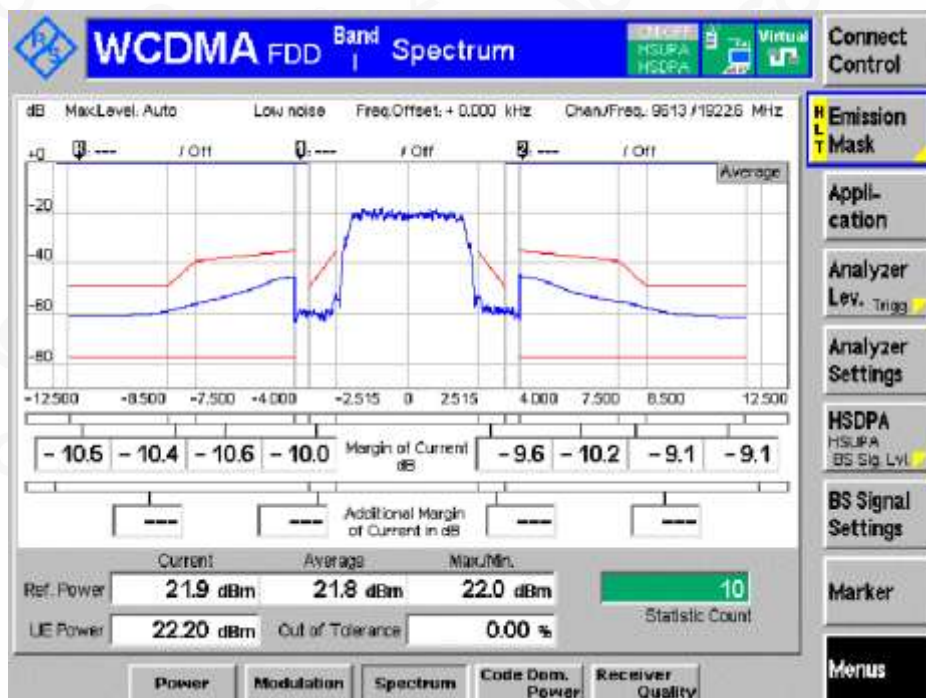


#### Sub-test 2

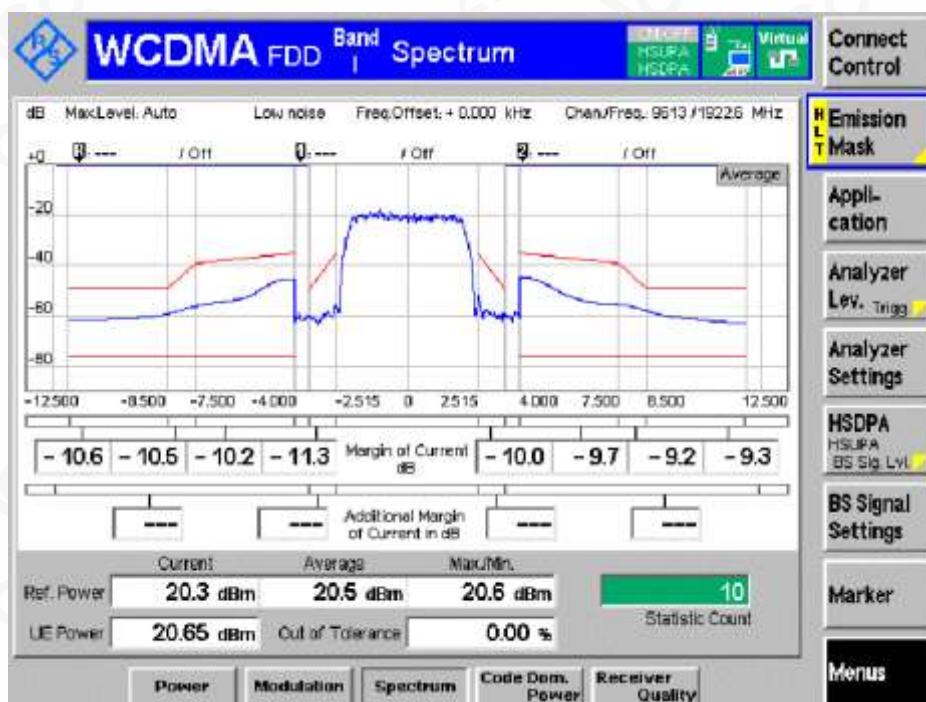




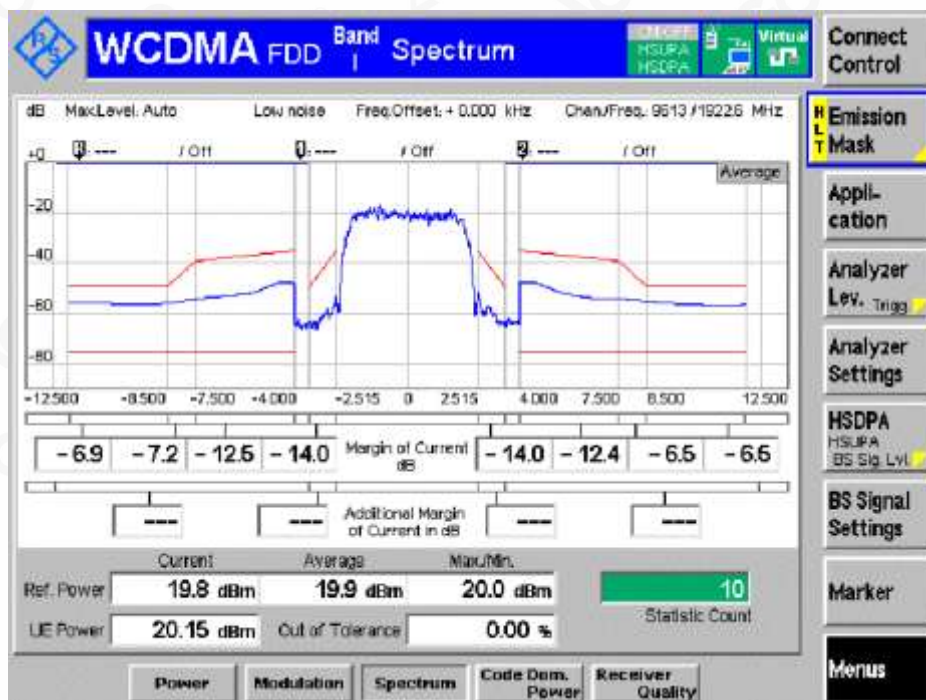
### Sub-test 3



### Sub-test 4

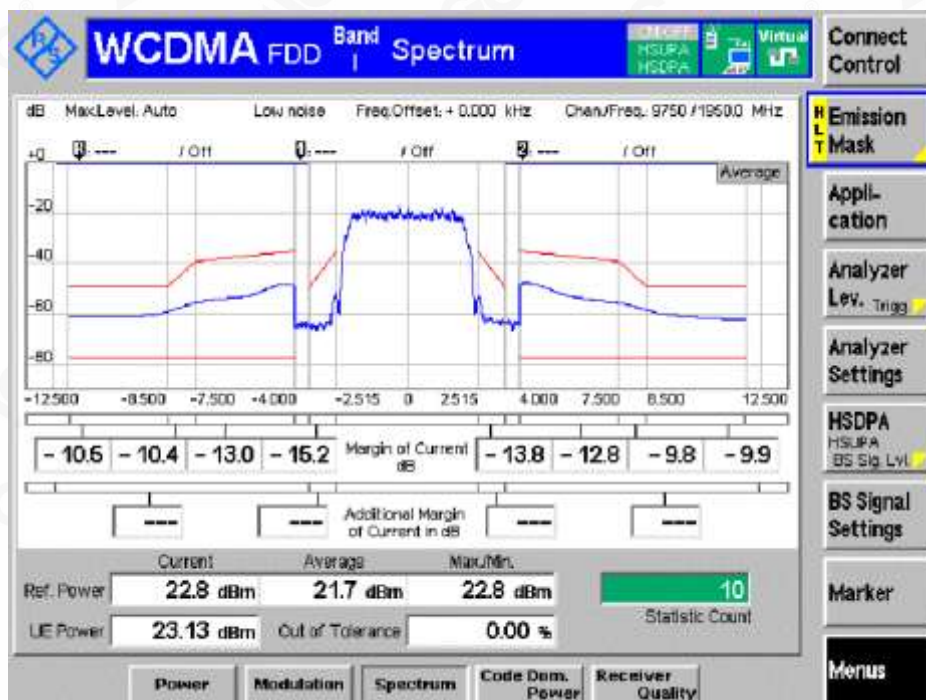


## Sub-test 5



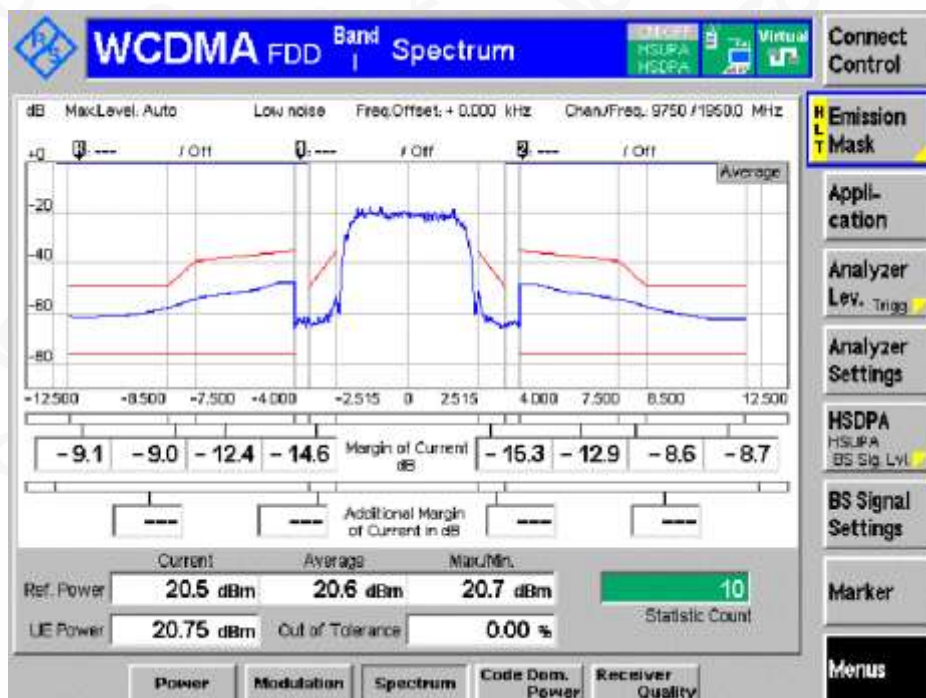
## Channel MCH

### Sub-test 1

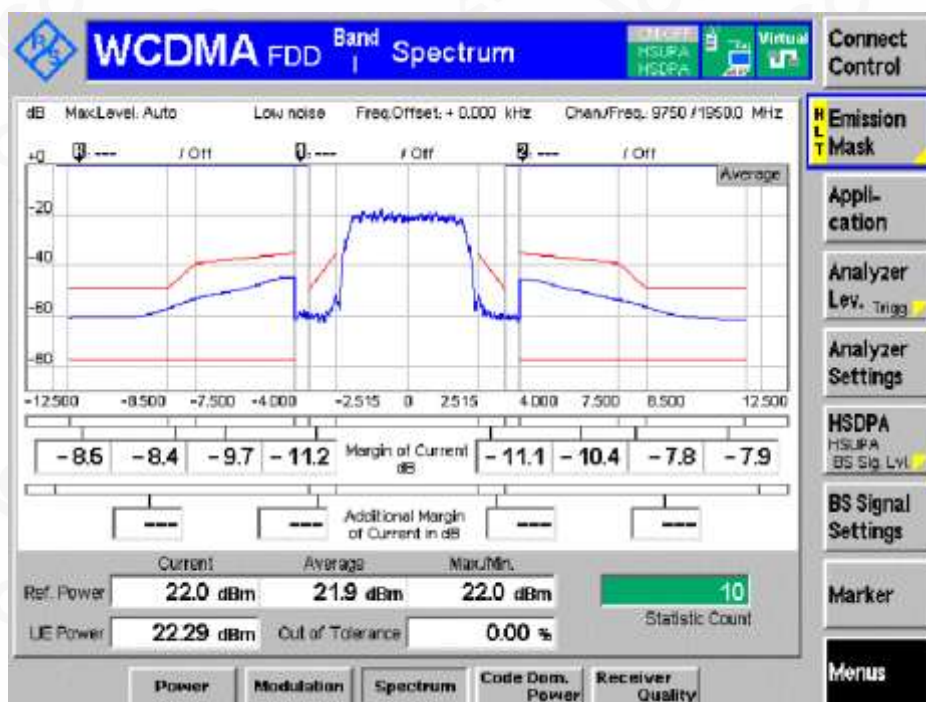




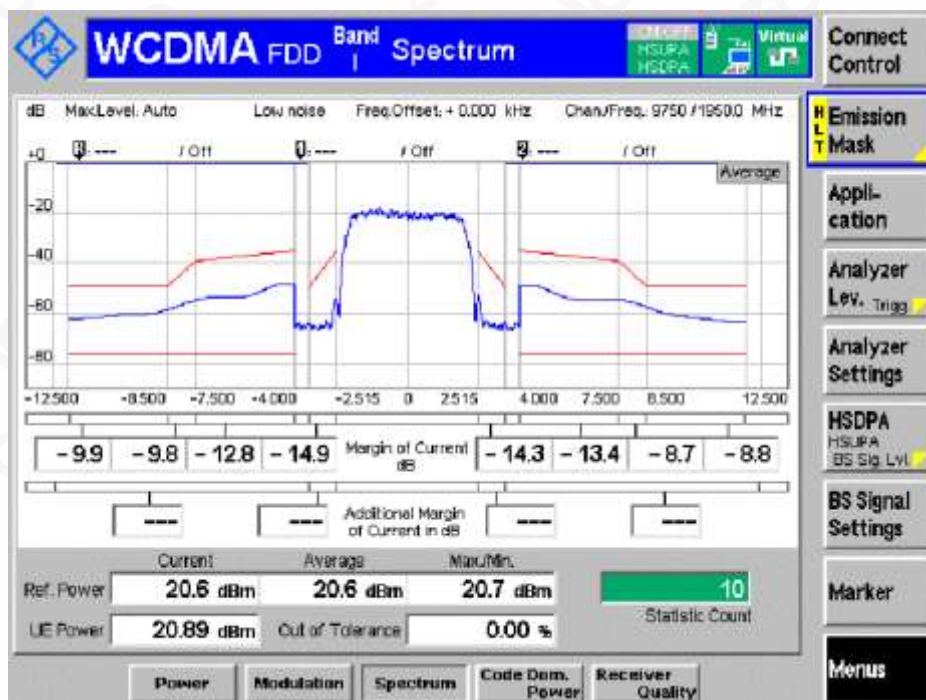
### Sub-test 2



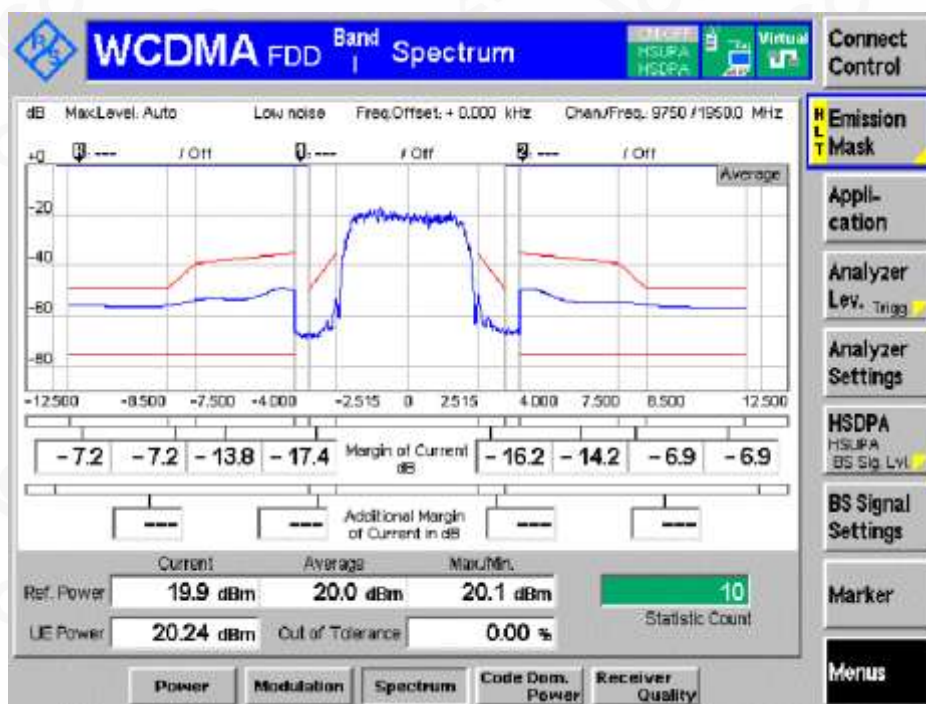
### Sub-test 3



#### Sub-test 4



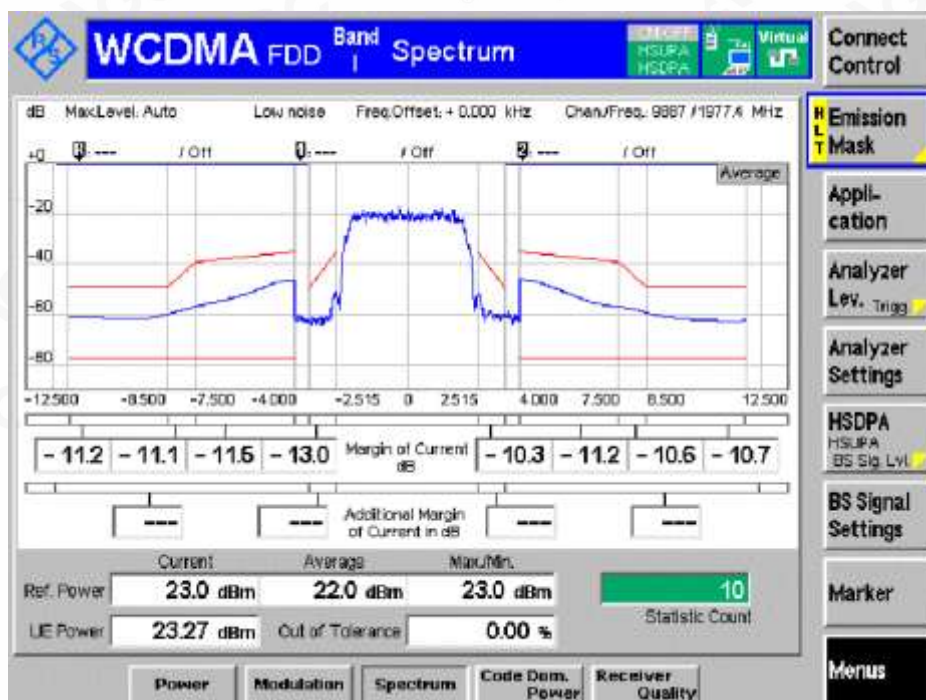
#### Sub – test 5



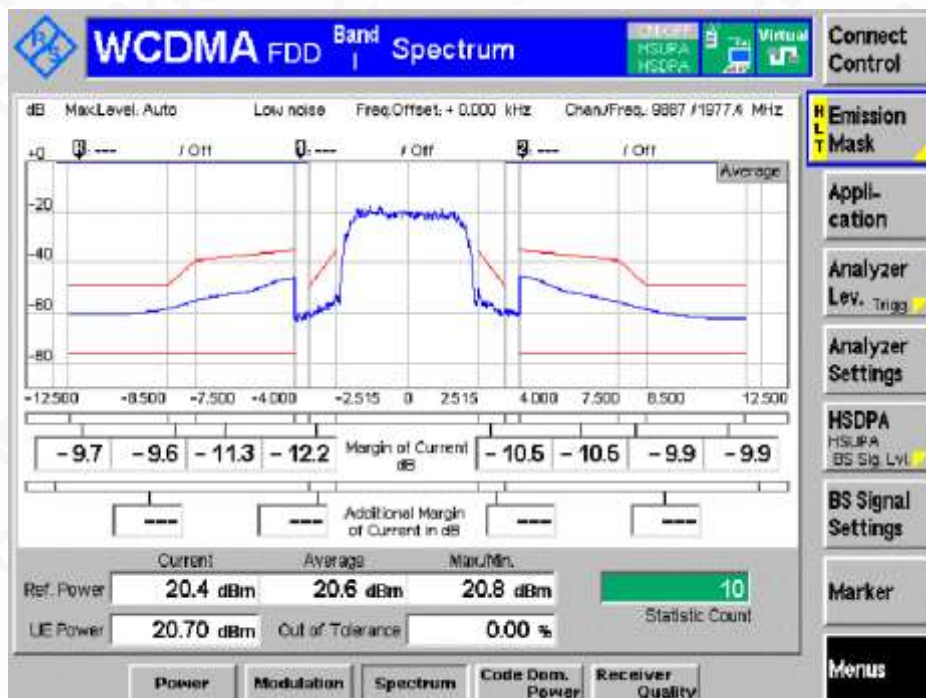


## Channel HCH

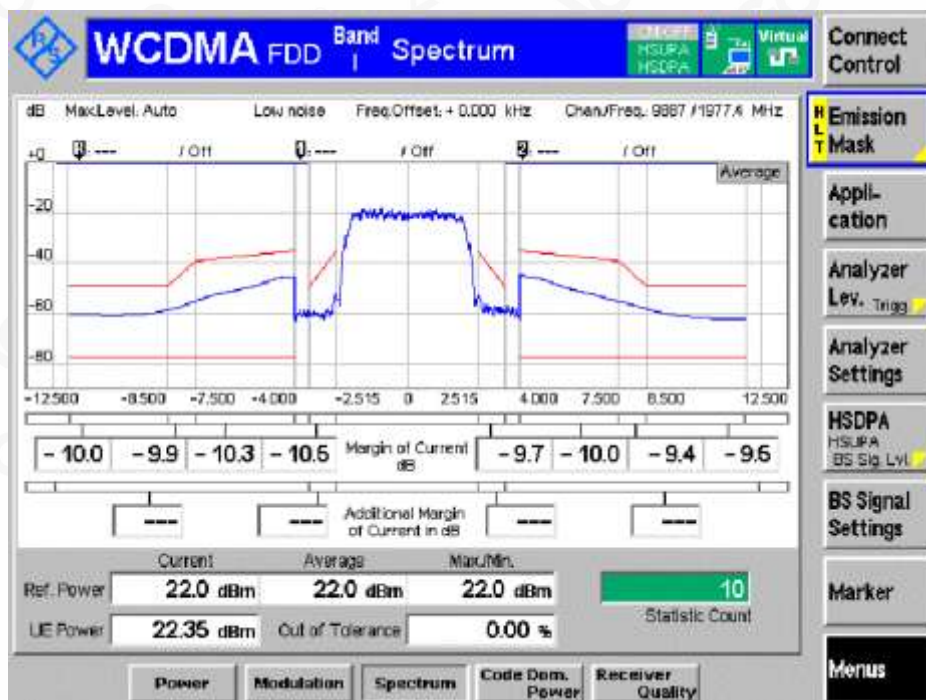
### Sub-test 1



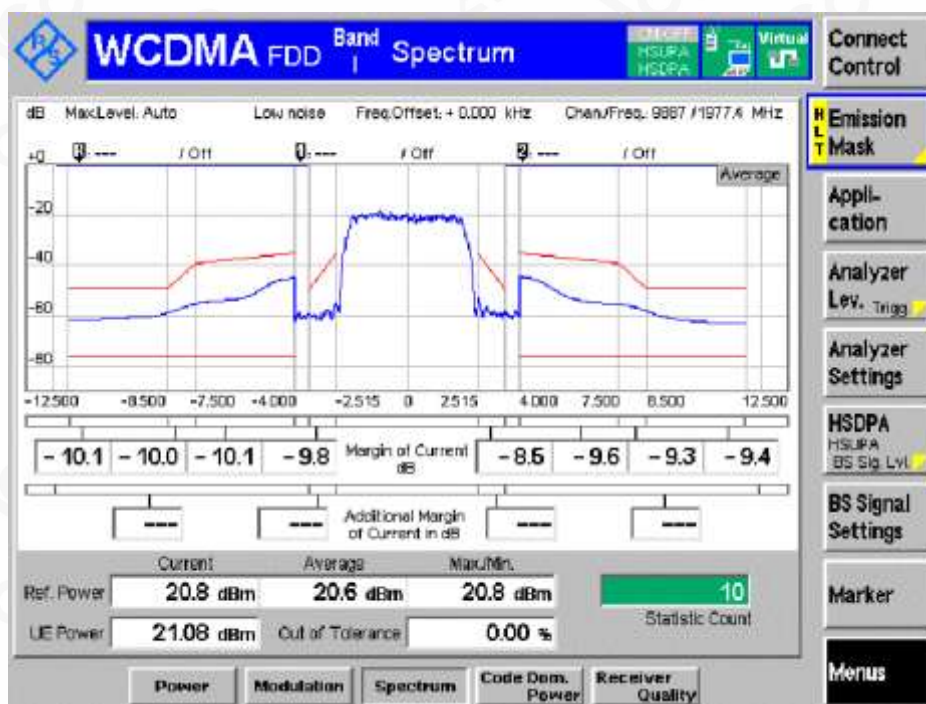
### Sub-test 2



### Sub-test 3

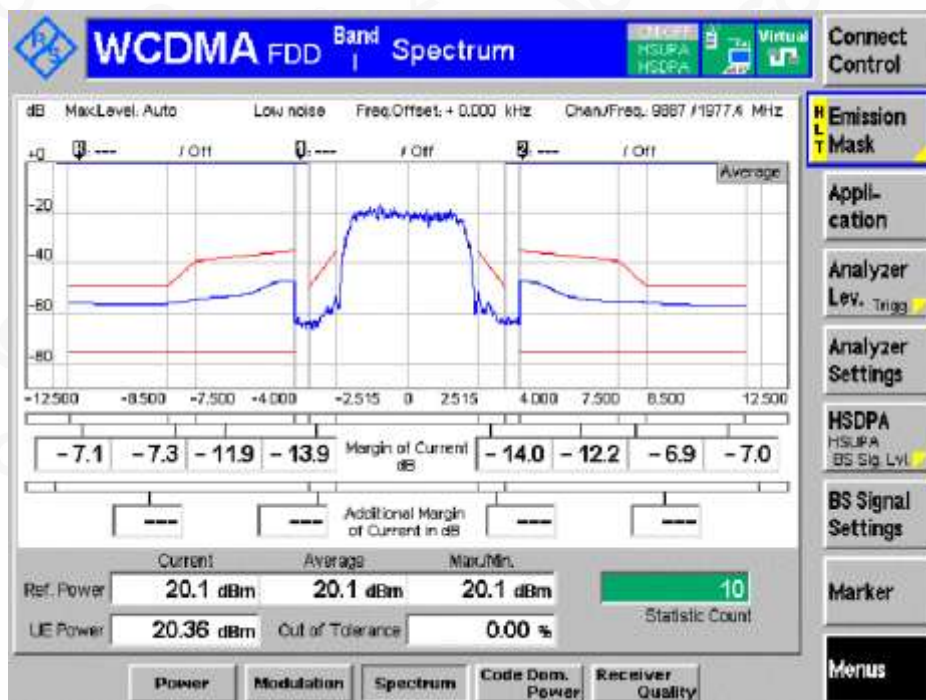


### Sub-test 4





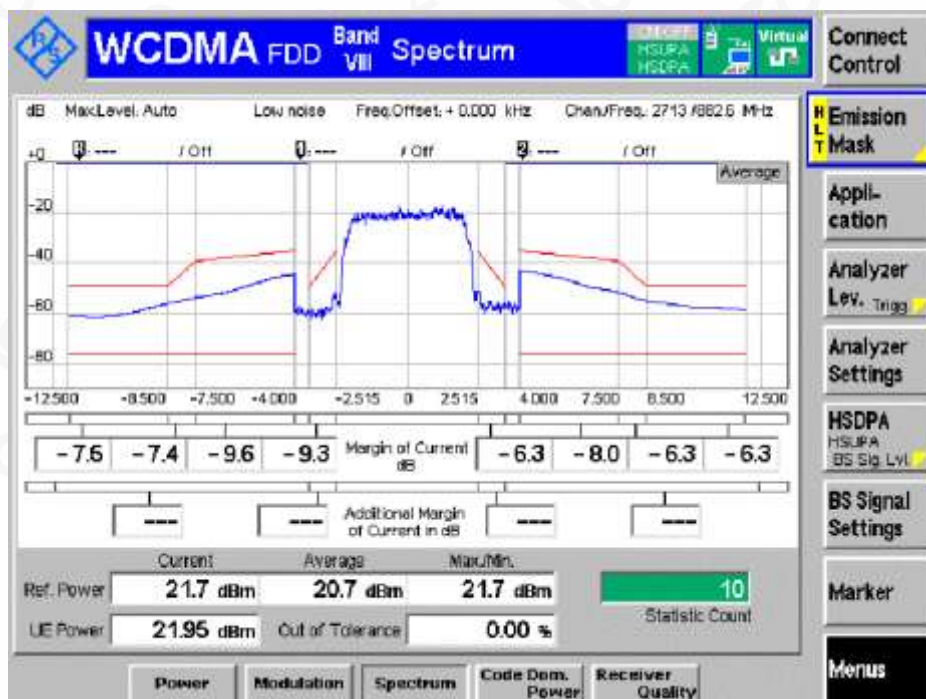
## Sub-test 5



## BAND VIII

### Channel LCH

## Sub-test 1



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

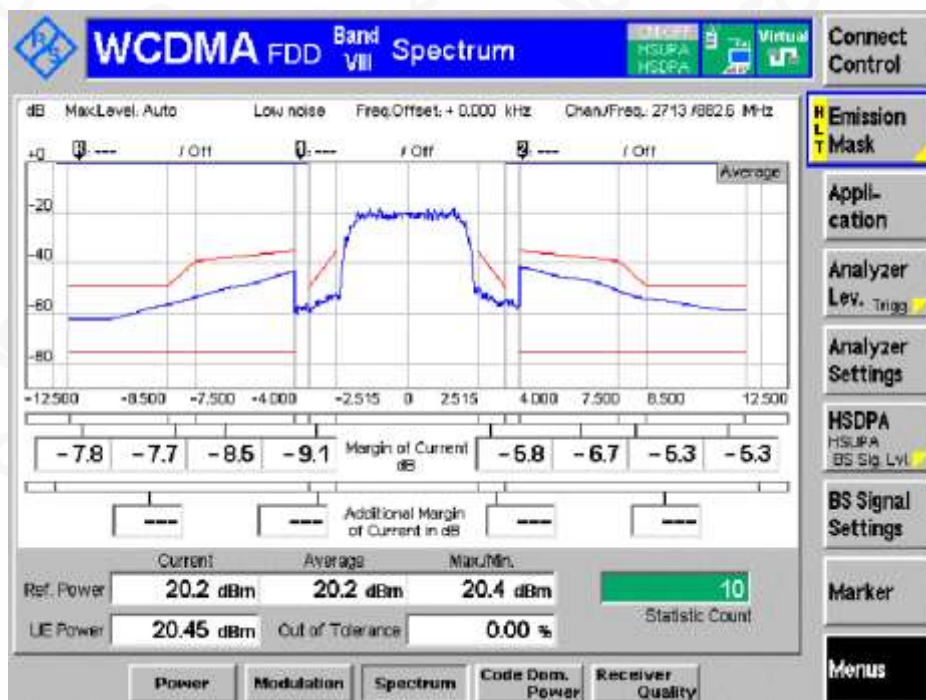
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

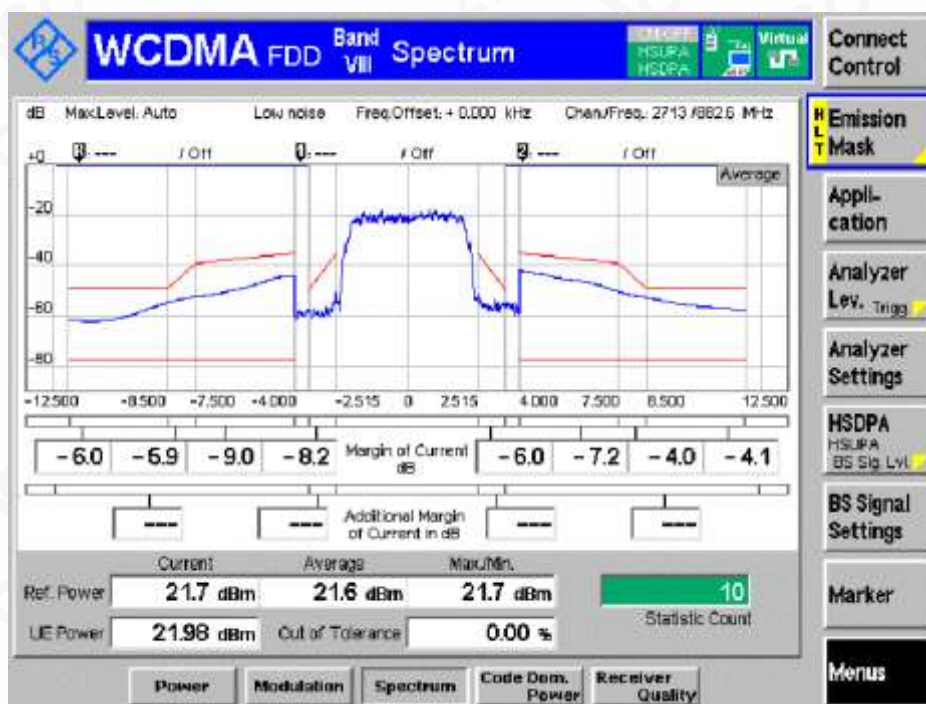
Service Hotline: 400 089 2118



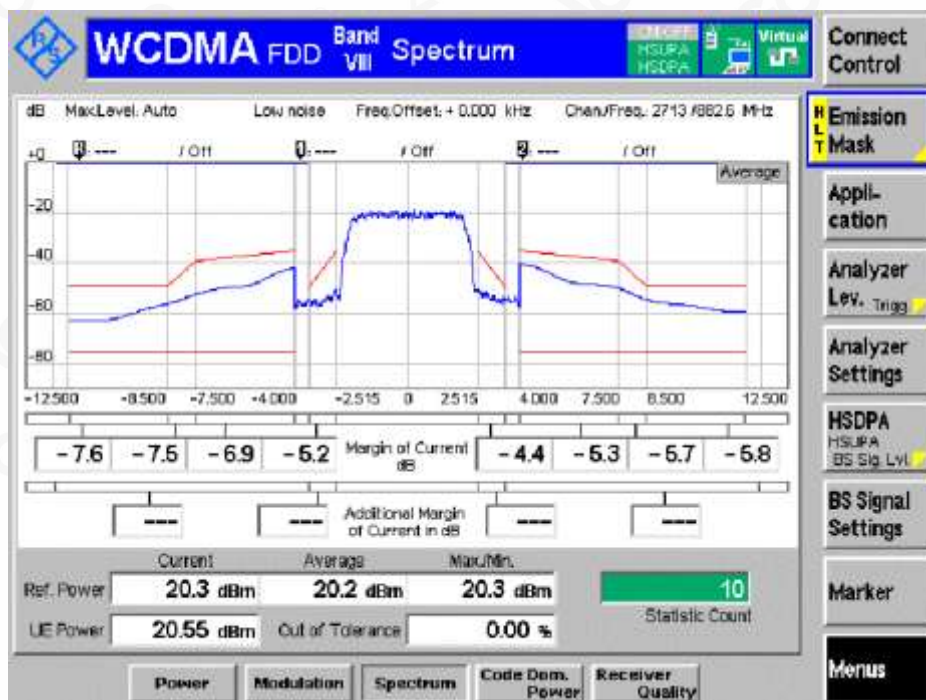
### Sub-test 2



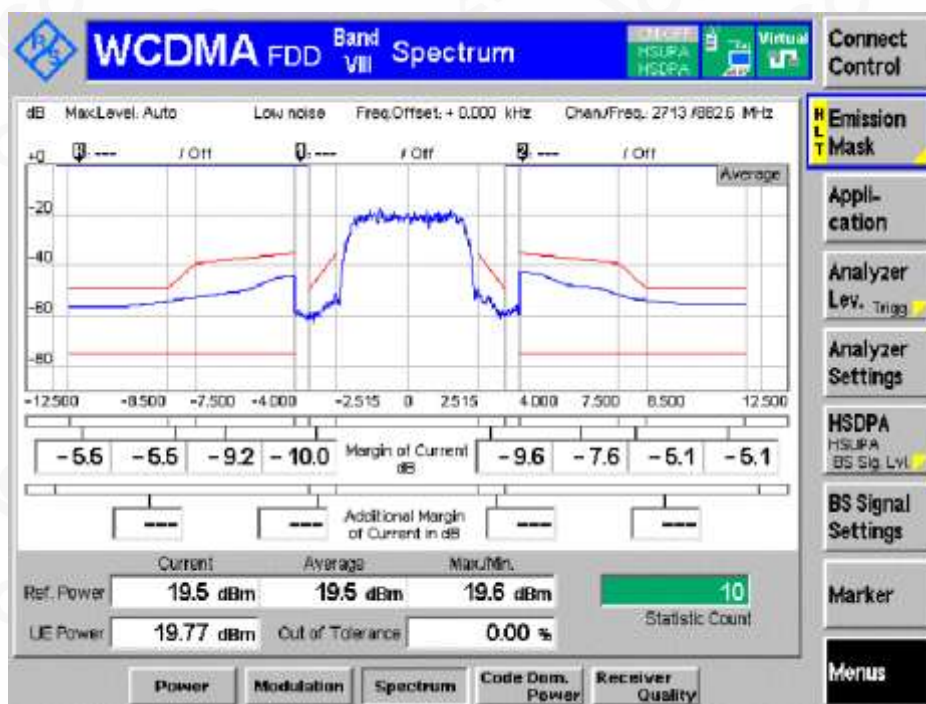
### Sub-test 3



#### Sub-test 4



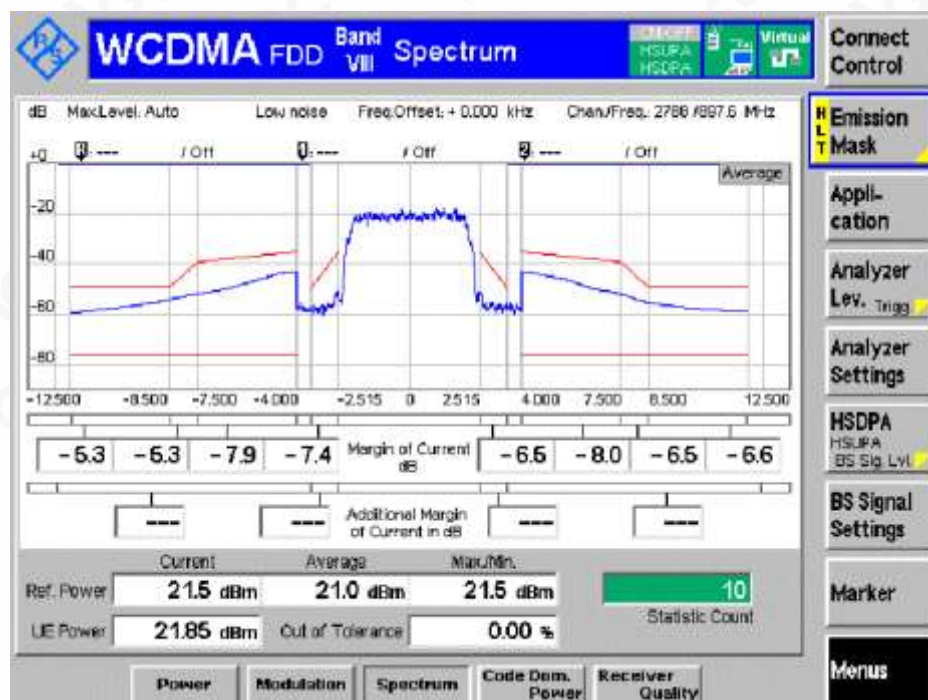
#### Sub-test 5



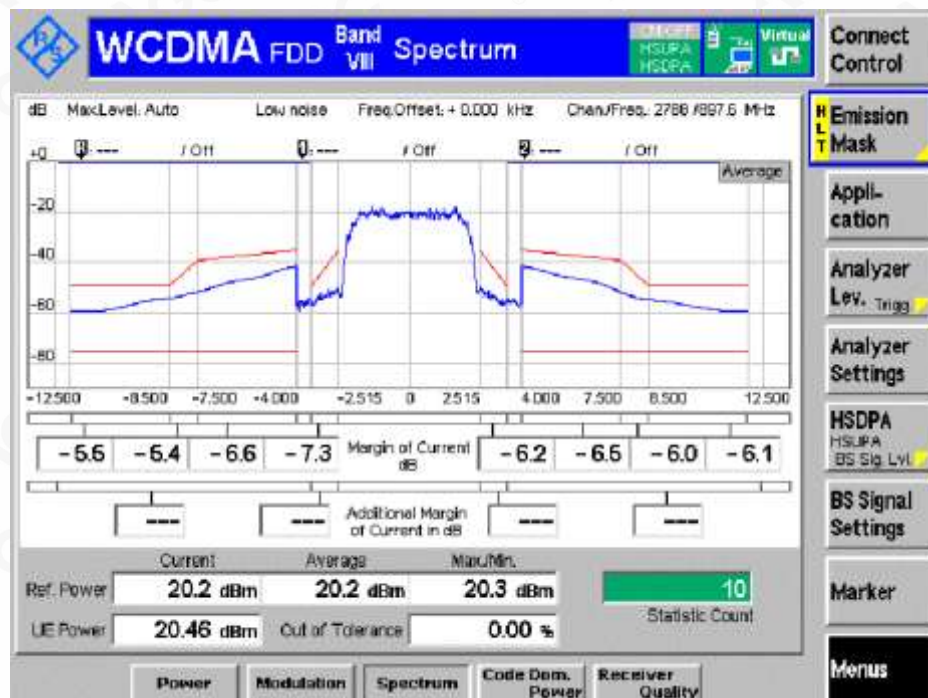


## Channel MCH

### Sub-test 1

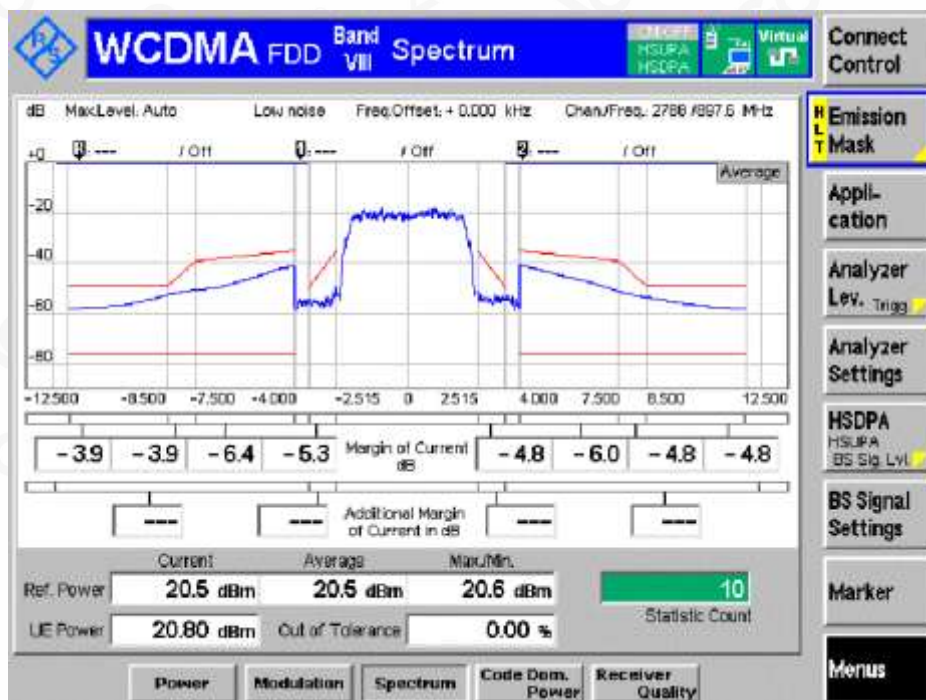


### Sub-test 2

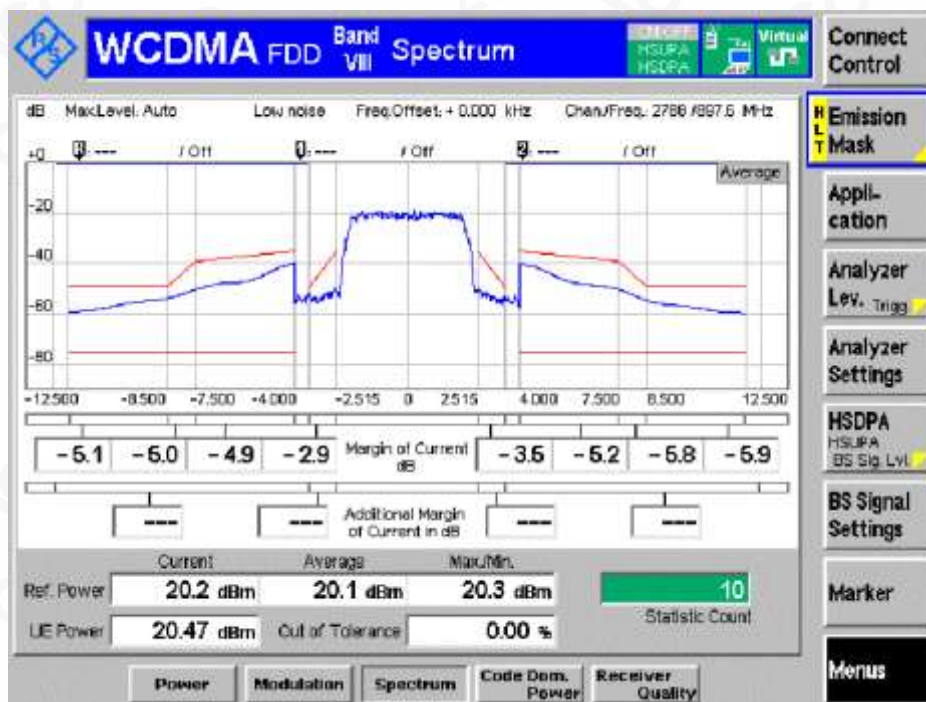




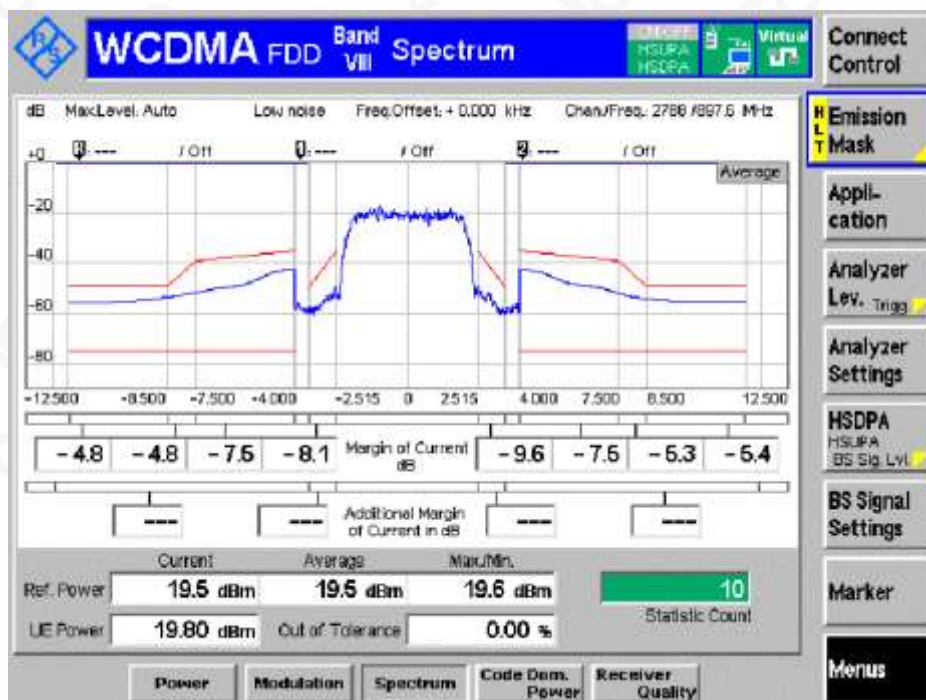
### Sub-test 3



### Sub-test 4

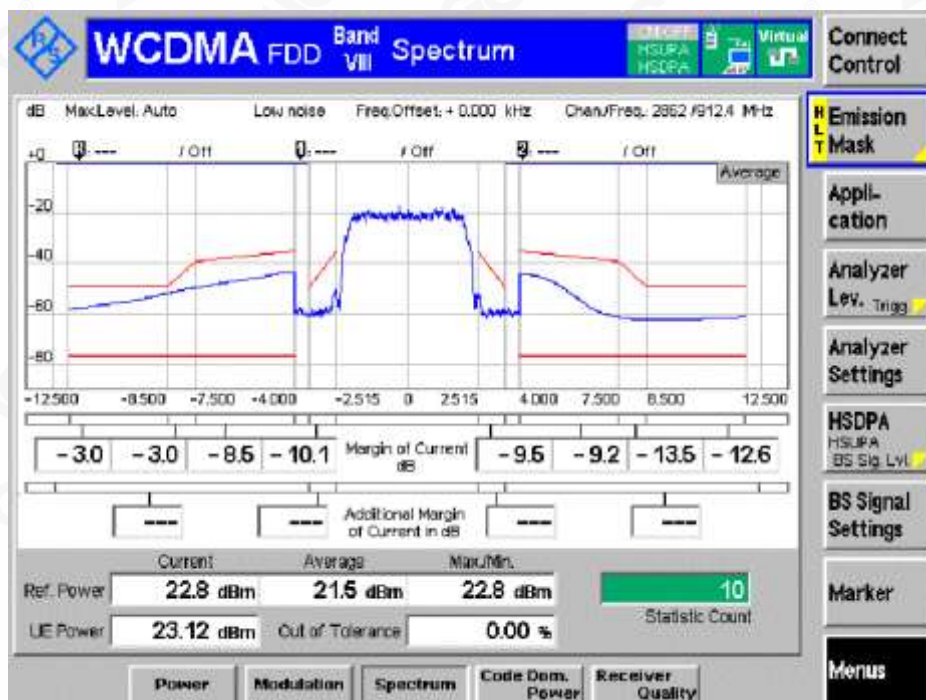


## Sub-test 5



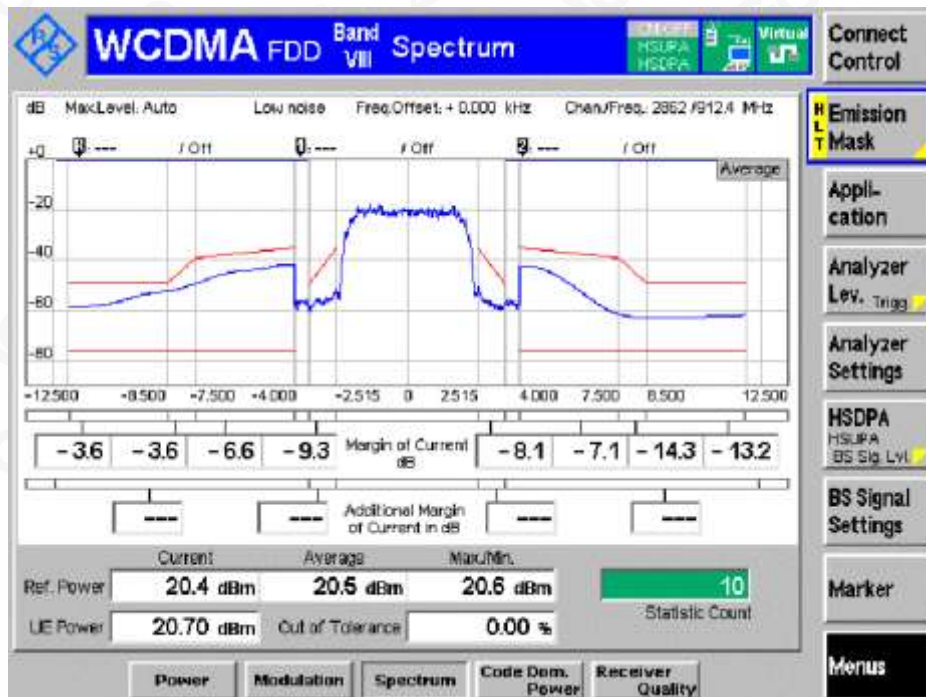
## Channel HCH

### Sub-test 1

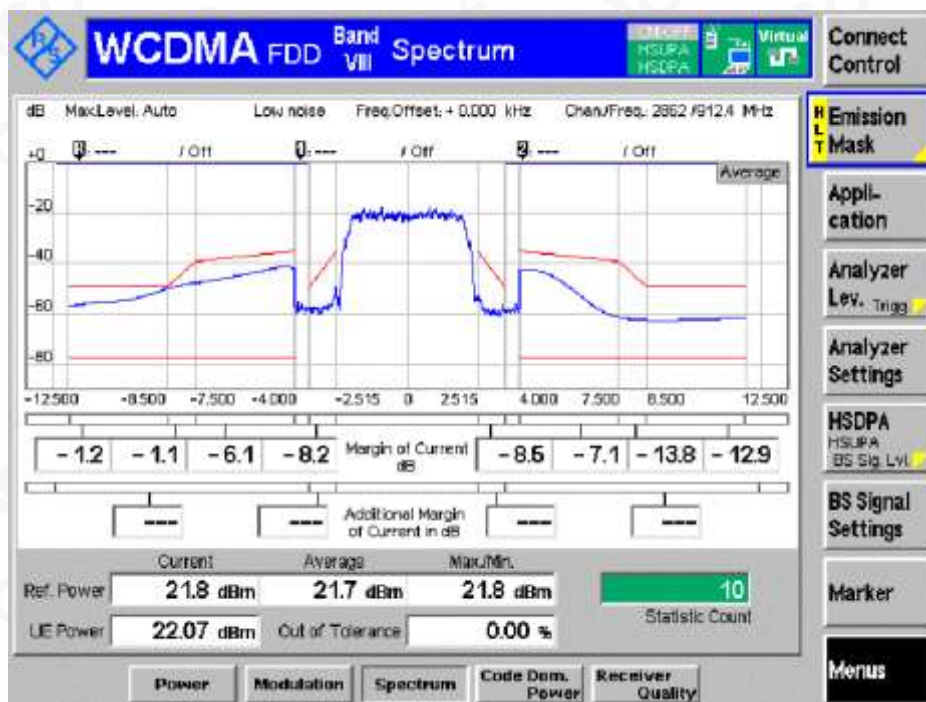




## Sub-test 2

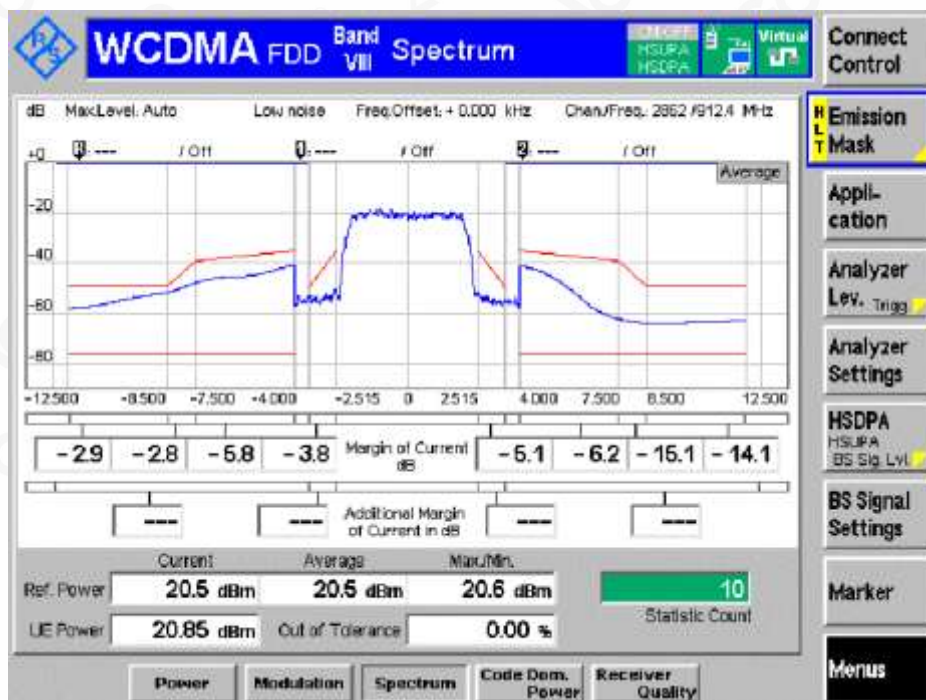


## Sub-test 3

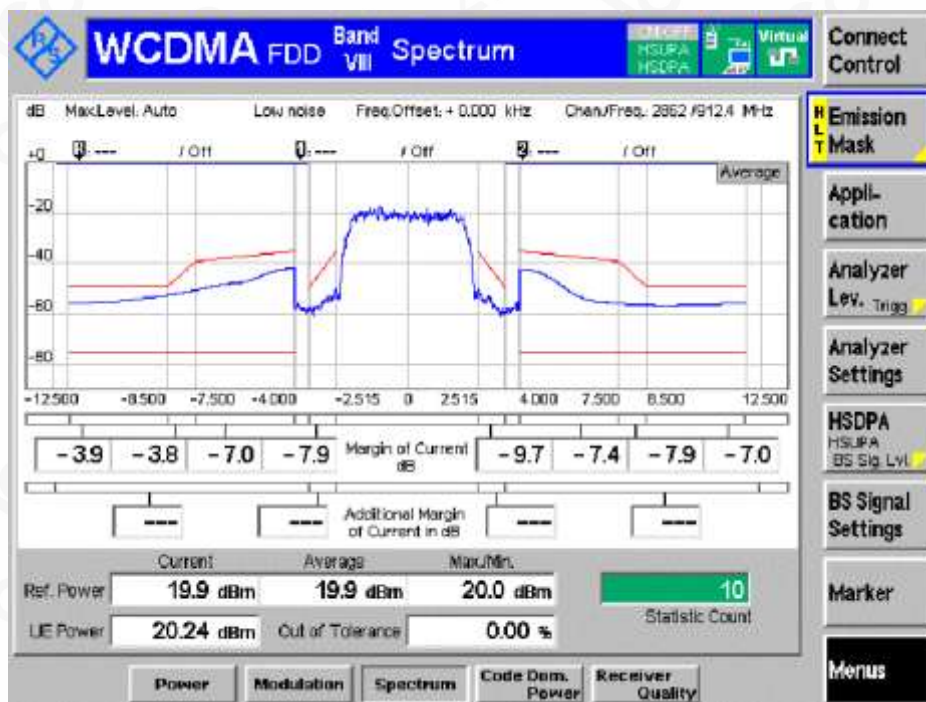




#### Sub-test 4



#### Sub-test 5



### Appendix K. Transmitter adjacent channel leakage power ratio with HS-DPPCH and E-DCH

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

Operating Band	Test Conditions	Test Channel	Sub-test	UE Channel	Measurement Data(dBm)	Limit (dBm)	Result
Band I	TNVN	LCH	1	+5MHz	-43.32	-32.2	Pass
				-5 MHz	-44.05	-32.2	Pass
				-10MHz	-55.68	-42.2	Pass
				+10MHz	-55.51	-42.2	Pass
			2	+5MHz	-42.72	-32.2	Pass
				-5 MHz	-43.03	-32.2	Pass
				-10MHz	-55.13	-42.2	Pass
				+10MHz	-54.72	-42.2	Pass
			3	+5MHz	-41.84	-32.2	Pass
				-5 MHz	-42.22	-32.2	Pass
				-10MHz	-55.25	-42.2	Pass
				+10MHz	-54.85	-42.2	Pass
			4	+5MHz	-42.06	-32.2	Pass
				-5 MHz	-42.65	-32.2	Pass
				-10MHz	-55.49	-42.2	Pass
				+10MHz	-55.25	-42.2	Pass
			5	+5MHz	-44.39	-32.2	Pass
				-5 MHz	-44.43	-32.2	Pass
				-10MHz	-50.81	-42.2	Pass
				+10MHz	-50.91	-42.2	Pass
		MCH	1	+5MHz	-44.90	-32.2	Pass
				-5 MHz	-44.79	-32.2	Pass
				-10MHz	-55.46	-42.2	Pass
				+10MHz	-55.45	-42.2	Pass
			2	+5MHz	-44.57	-32.2	Pass



				-5 MHz	-43.78	-32.2	Pass
				-10MHz	-54.86	-42.2	Pass
				+10MHz	-54.69	-42.2	Pass
			3	+5MHz	-41.81	-32.2	Pass
				-5 MHz	-41.45	-32.2	Pass
				-10MHz	-54.35	-42.2	Pass
				+10MHz	-54.27	-42.2	Pass
			4	+5MHz	-45.52	-32.2	Pass
				-5 MHz	-44.94	-32.2	Pass
				-10MHz	-54.98	-42.2	Pass
				+10MHz	-55.22	-42.2	Pass
			5	+5MHz	-46.29	-32.2	Pass
				-5 MHz	-46.13	-32.2	Pass
				-10MHz	-50.99	-42.2	Pass
				+10MHz	-51.22	-42.2	Pass
		HCH	1	+5MHz	-42.80	-32.2	Pass
				-5 MHz	-43.62	-32.2	Pass
				-10MHz	-55.66	-42.2	Pass
				+10MHz	-56.01	-42.2	Pass
			2	+5MHz	-42.48	-32.2	Pass
				-5 MHz	-42.67	-32.2	Pass
				-10MHz	-54.94	-42.2	Pass
				+10MHz	-55.33	-42.2	Pass
			3	+5MHz	-41.52	-32.2	Pass
				-5 MHz	-41.91	-32.2	Pass
				-10MHz	-54.73	-42.2	Pass
				+10MHz	-55.41	-42.2	Pass
			4	+5MHz	-41.85	-32.2	Pass





				-5 MHz	-42.23	-32.2	Pass
				-10MHz	-55.08	-42.2	Pass
				+10MHz	-55.56	-42.2	Pass
			5	+5MHz	-44.10	-32.2	Pass
				-5 MHz	-44.02	-32.2	Pass
				-10MHz	-50.93	-42.2	Pass
				+10MHz	-51.19	-42.2	Pass

Operating Band	Test Conditions	Test Channel	Sub-test	UE Channel	Measurement Data(dBm)	Limit (dBm)	Result
Band VIII	TNVN	LCH	1	+5MHz	-39.12	-32.2	Pass
				-5 MHz	-41.01	-32.2	Pass
				-10MHz	-53.14	-42.2	Pass
				+10MHz	-51.64	-42.2	Pass
			2	+5MHz	-37.92	-32.2	Pass
				-5 MHz	-40.06	-32.2	Pass
				-10MHz	-53.82	-42.2	Pass
				+10MHz	-50.92	-42.2	Pass
			3	+5MHz	-38.25	-32.2	Pass
				-5 MHz	-40.75	-32.2	Pass
				-10MHz	-52.93	-42.2	Pass
				+10MHz	-49.70	-42.2	Pass
			4	+5MHz	-37.17	-32.2	Pass
				-5 MHz	-38.63	-32.2	Pass
				-10MHz	-53.95	-42.2	Pass
				+10MHz	-51.05	-42.2	Pass
			5	+5MHz	-39.22	-32.2	Pass
				-5 MHz	-40.96	-32.2	Pass



				-10MHz	-50.41	-42.2	Pass
				+10MHz	-49.42	-42.2	Pass
				1	+5MHz	-38.91	Pass
					-5 MHz	-39.22	Pass
					-10MHz	-51.01	Pass
					+10MHz	-51.91	Pass
				2	+5MHz	-37.81	Pass
					-5 MHz	-37.90	Pass
					-10MHz	-51.42	Pass
					+10MHz	-51.46	Pass
				3	+5MHz	-38.01	Pass
					-5 MHz	-38.62	Pass
					-10MHz	-49.82	Pass
					+10MHz	-50.02	Pass
				4	+5MHz	-37.14	Pass
					-5 MHz	-36.93	Pass
					-10MHz	-50.64	Pass
					+10MHz	-51.92	Pass
				5	+5MHz	-39.20	Pass
					-5 MHz	-39.34	Pass
					-10MHz	-49.63	Pass
					+10MHz	-49.72	Pass
		HCH	1	+5MHz	-40.37	-32.2	Pass
				-5 MHz	-39.19	-32.2	Pass
				-10MHz	-49.56	-42.2	Pass
				+10MHz	-56.13	-42.2	Pass
			2	+5MHz	-39.40	-32.2	Pass
				-5 MHz	-37.62	-32.2	Pass



				-10MHz	-49.66	-42.2	Pass
				+10MHz	-57.24	-42.2	Pass
			3	+5MHz	-39.63	-32.2	Pass
				-5 MHz	-37.90	-32.2	Pass
				-10MHz	-47.87	-42.2	Pass
				+10MHz	-57.04	-42.2	Pass
			4	+5MHz	-38.39	-32.2	Pass
				-5 MHz	-36.95	-32.2	Pass
				-10MHz	-48.83	-42.2	Pass
				+10MHz	-58.31	-42.2	Pass
			5	+5MHz	-39.75	-32.2	Pass
				-5 MHz	-38.73	-32.2	Pass
				-10MHz	-48.99	-42.2	Pass
				+10MHz	-51.07	-42.2	Pass



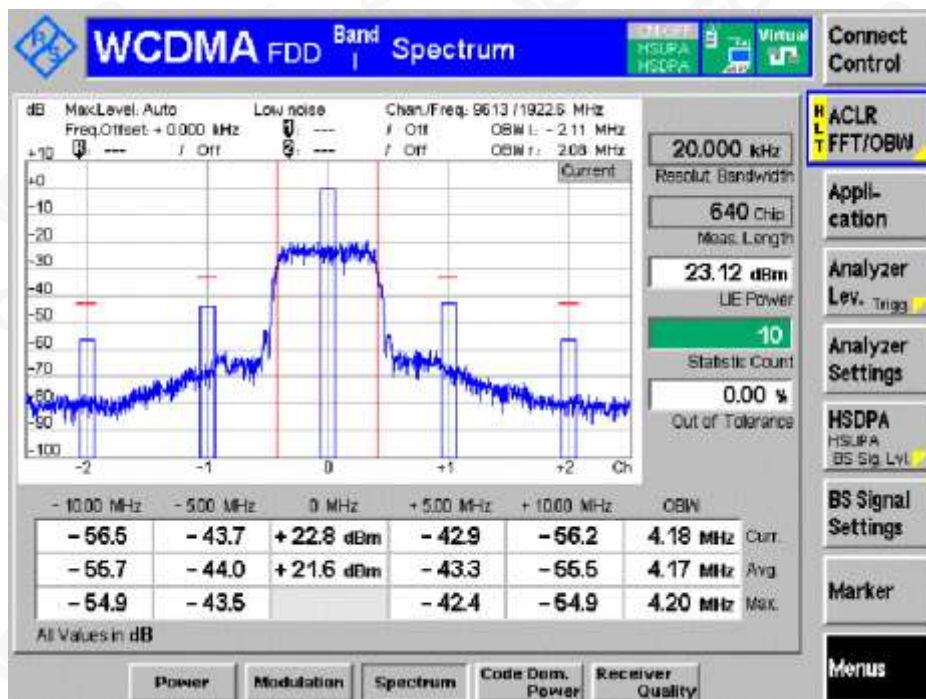


# BAND I

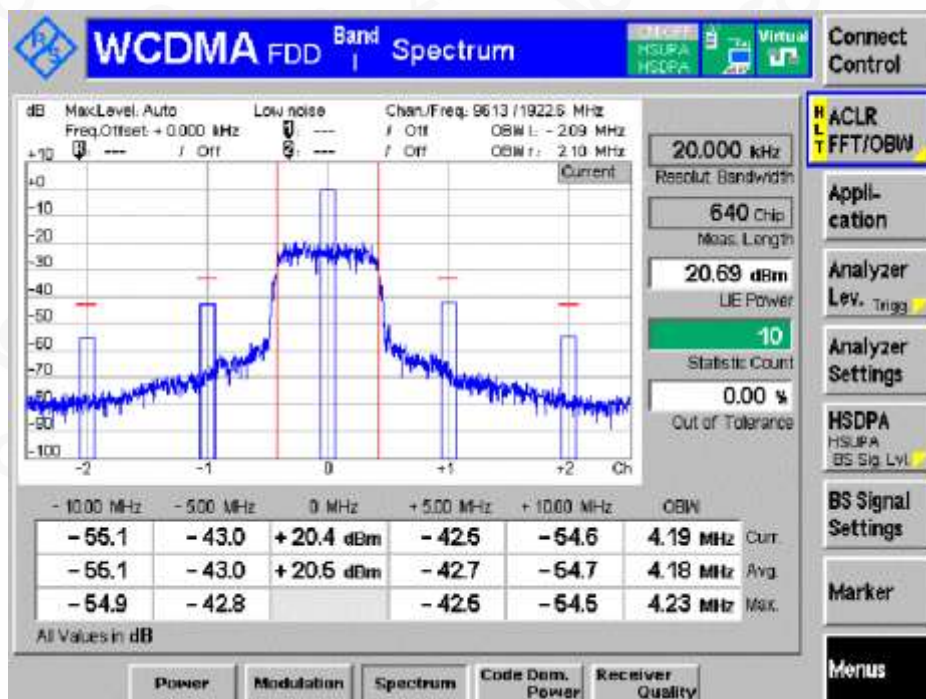
## TNPN

### Channel LCH

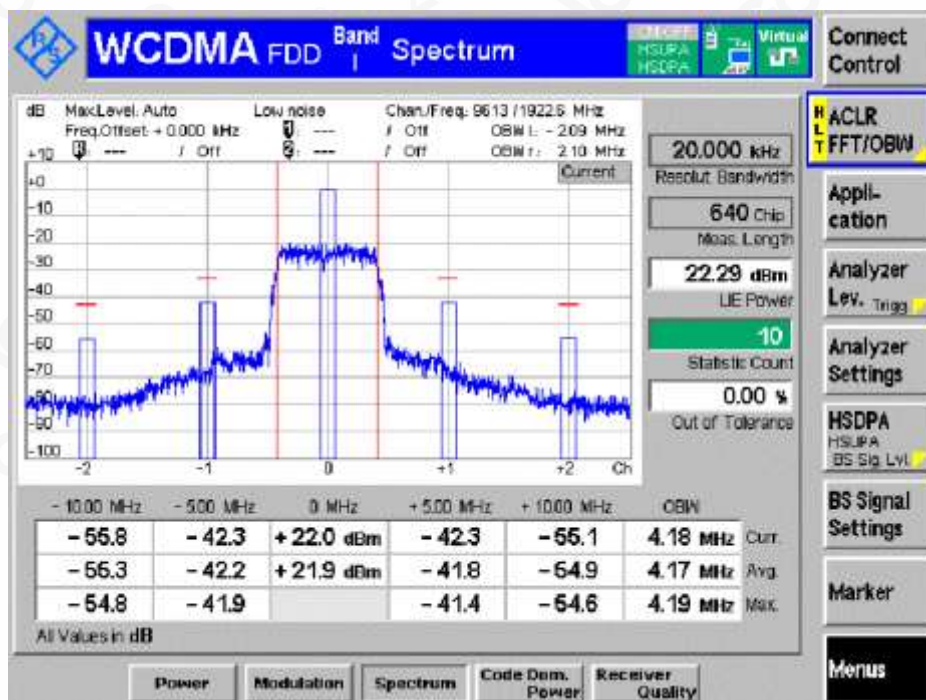
#### Sub-test 1



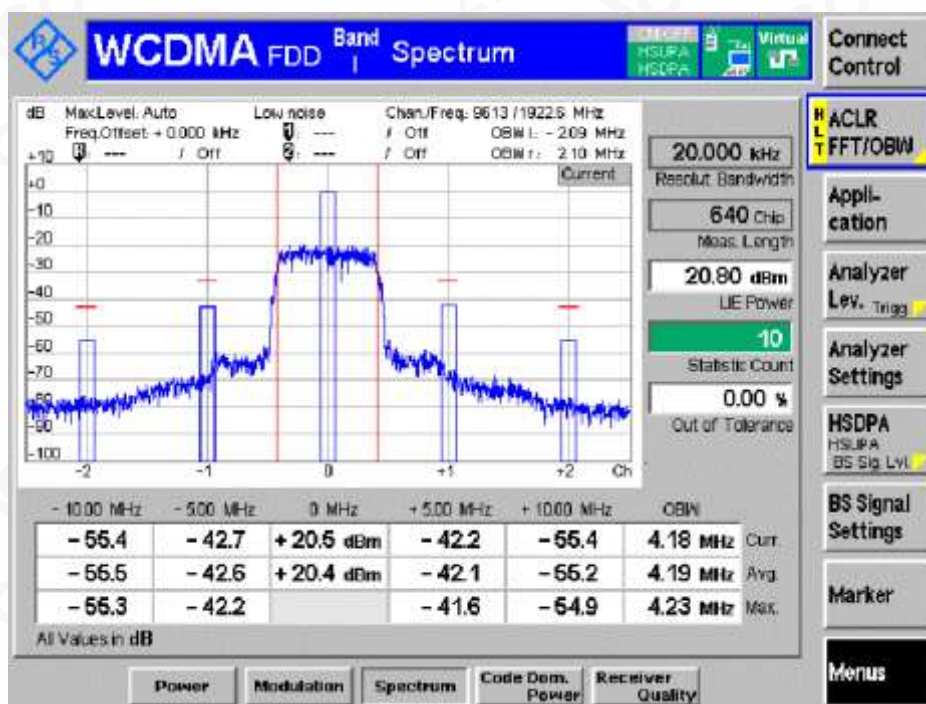
#### Sub-test 2



### Sub-test 3

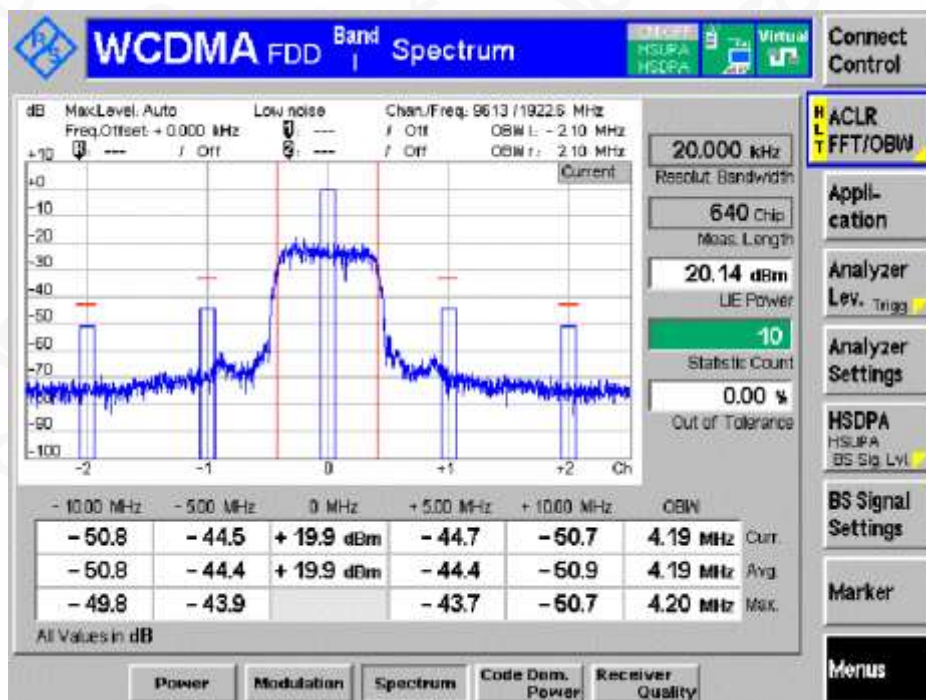


### Sub-test 4



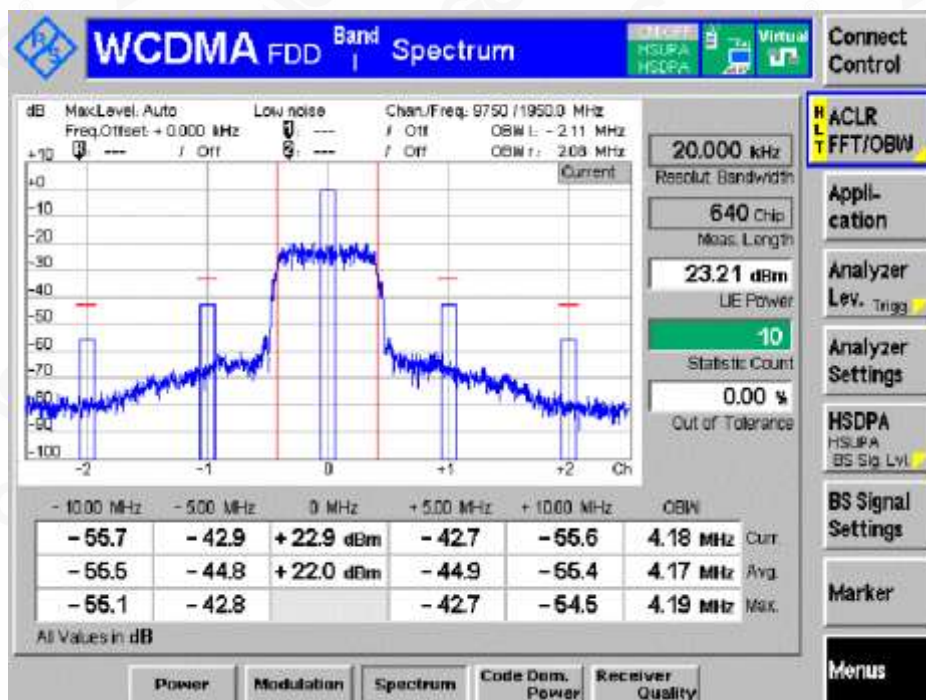


## Sub-test 5



## Channel MCH

### Sub-test 1



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

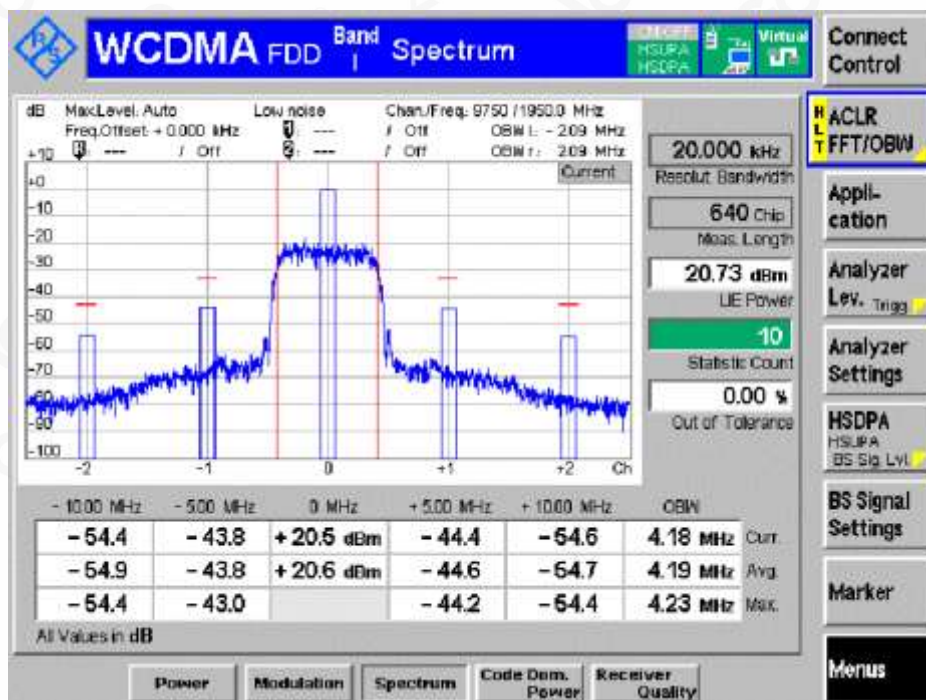
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

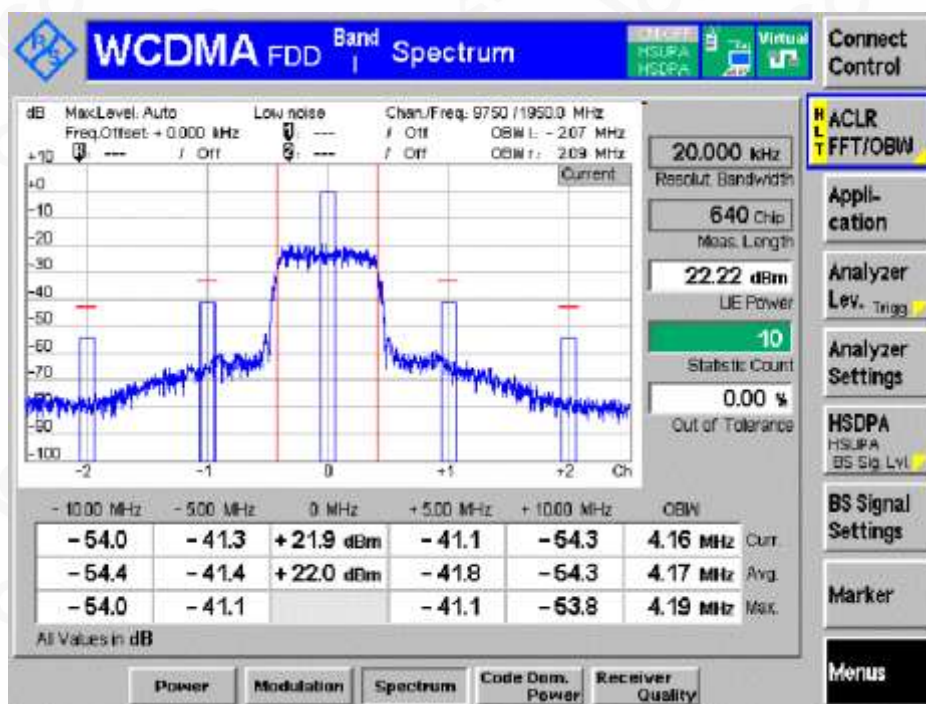
Service Hotline: 400 089 2118



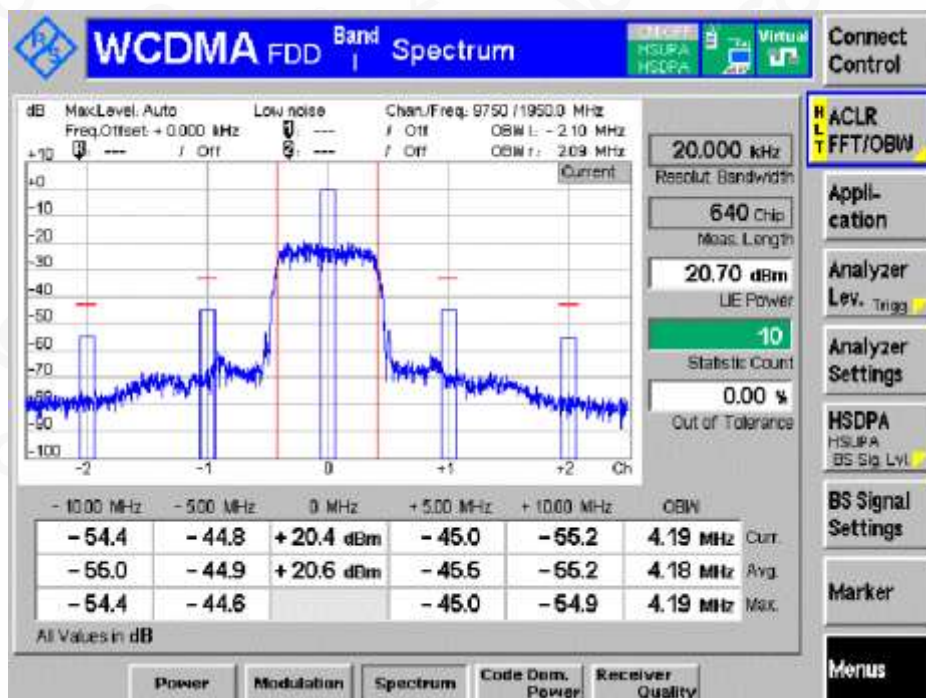
## Sub-test 2



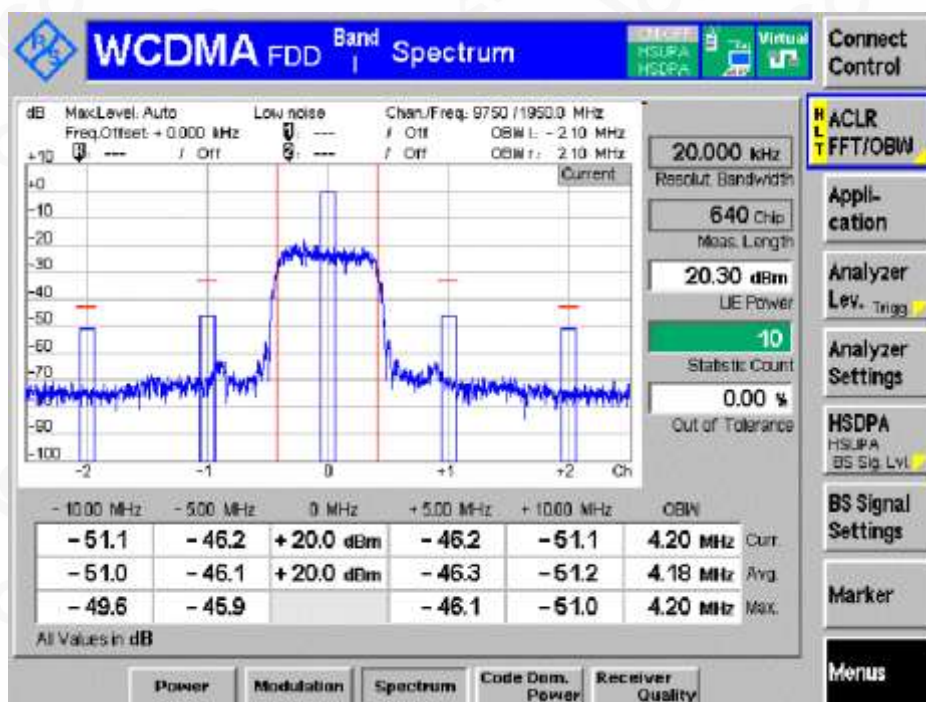
## Sub-test 3



#### Sub-test 4



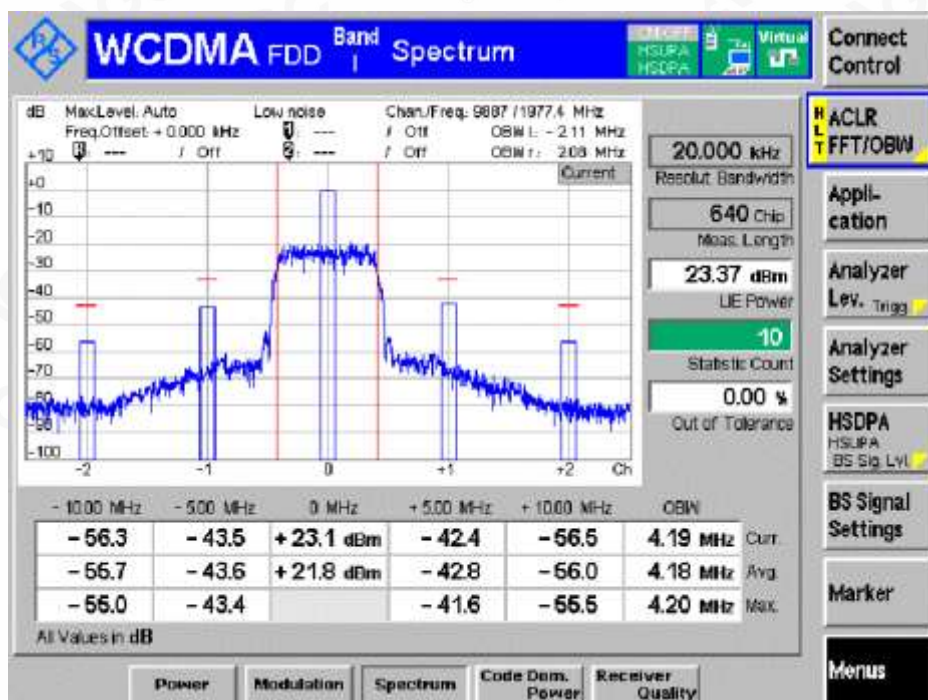
#### Sub-test 5



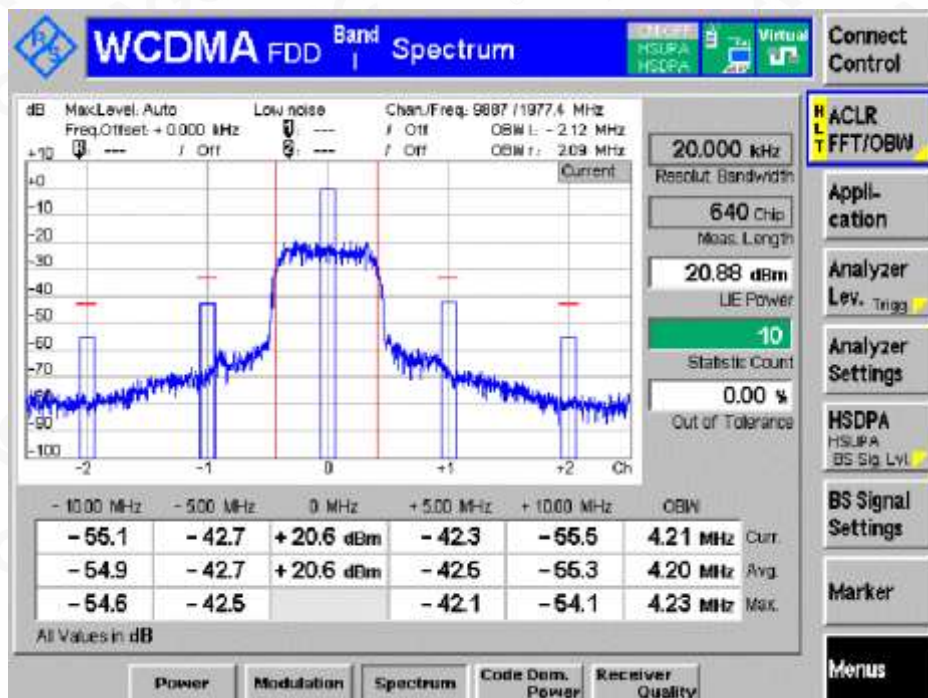


Channel HCH

Sub-test 1



Sub-test 2



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

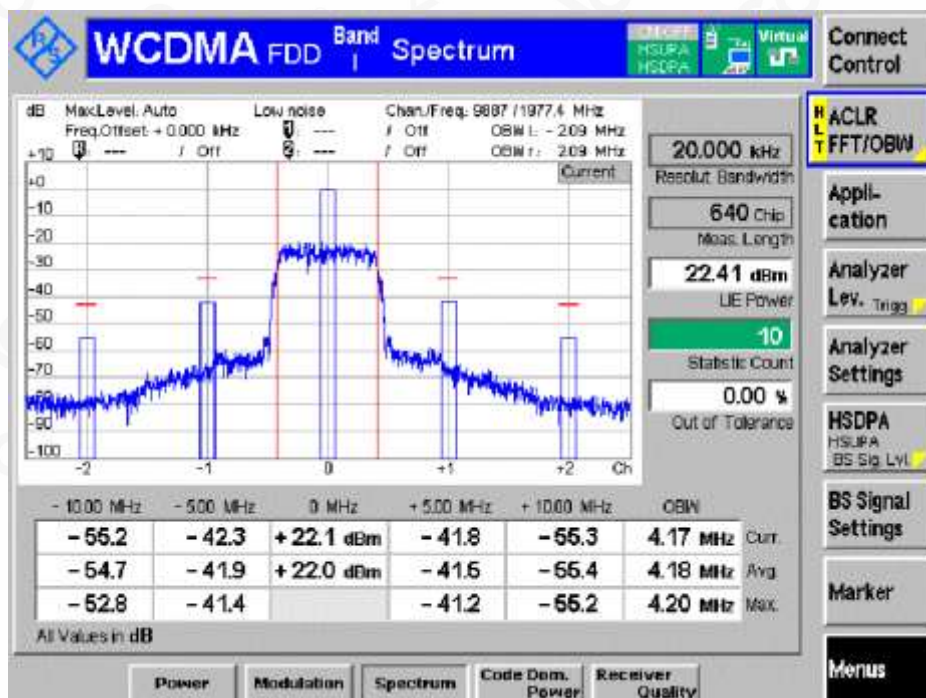
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

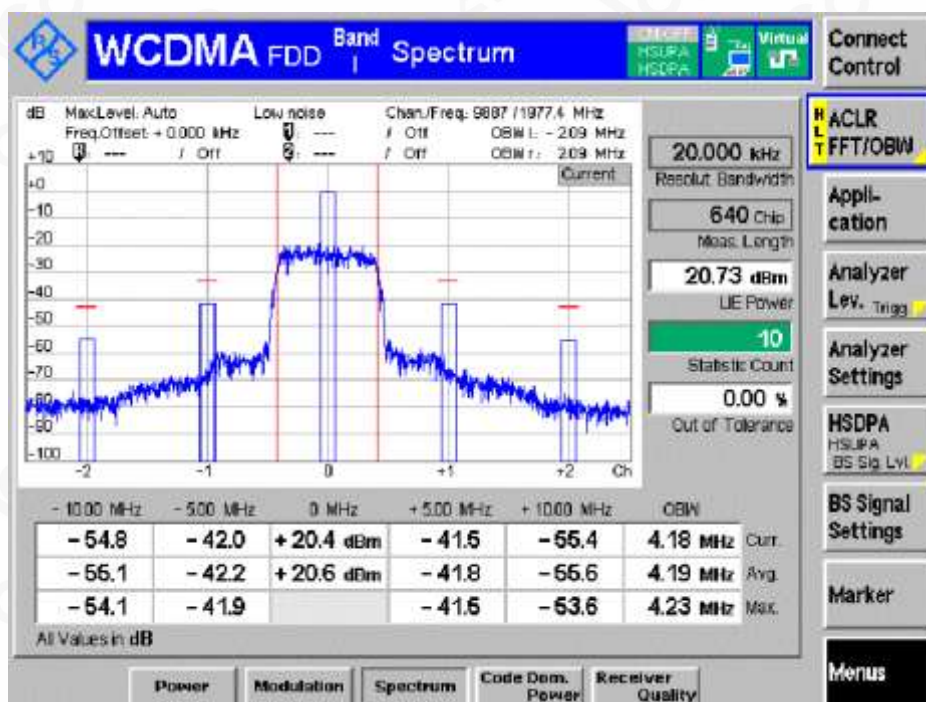
Service Hotline: 400 089 2118



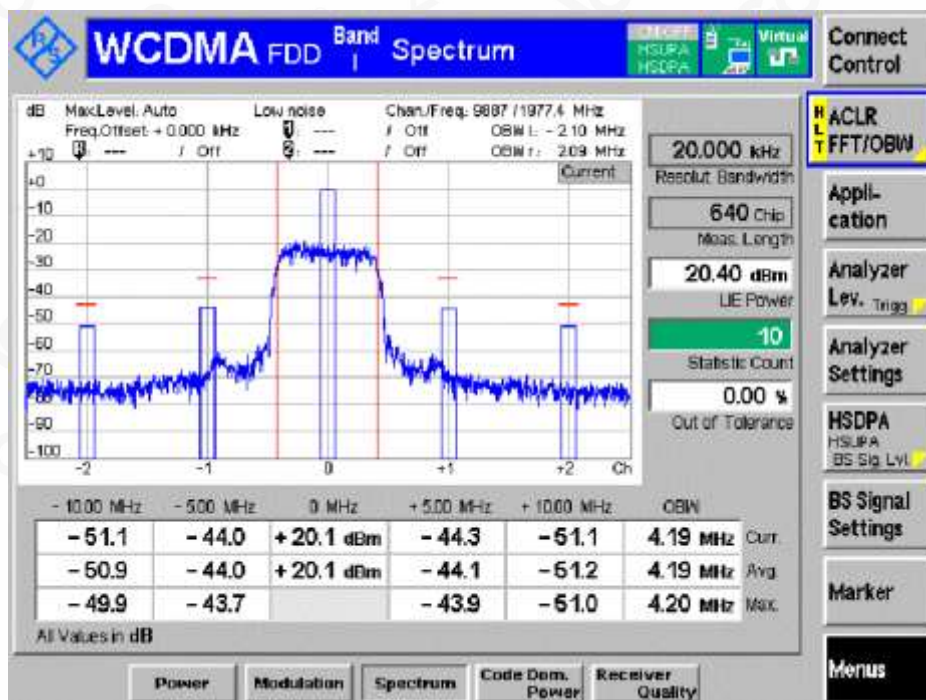
### Sub-test 3



### Sub-test 4



## Sub-test 5

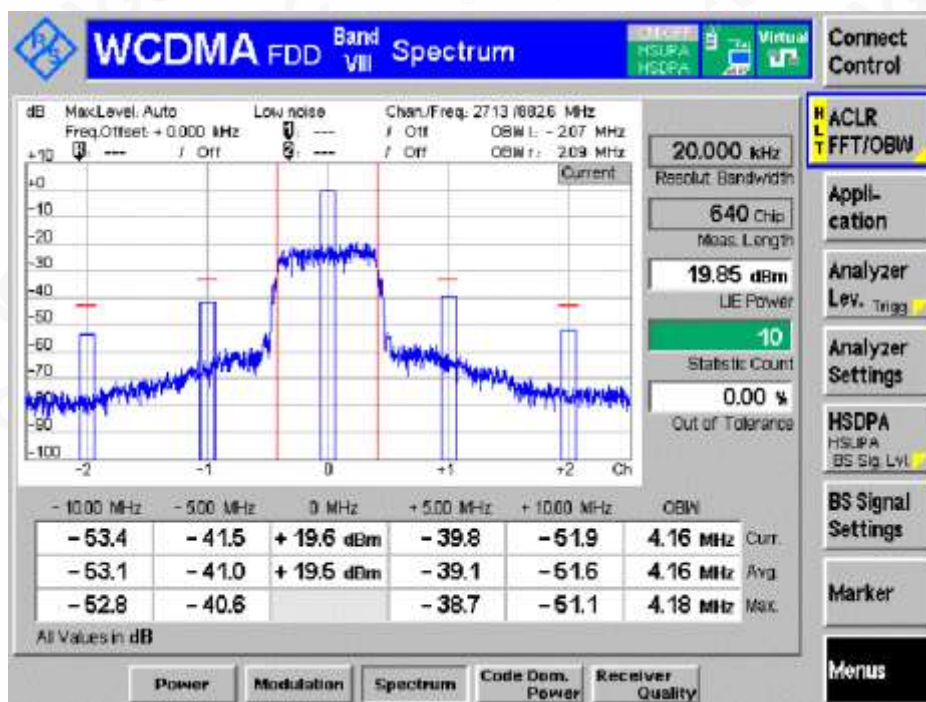


## BAND VIII

### TNPN

### Channel LCH

## Sub-test 1



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

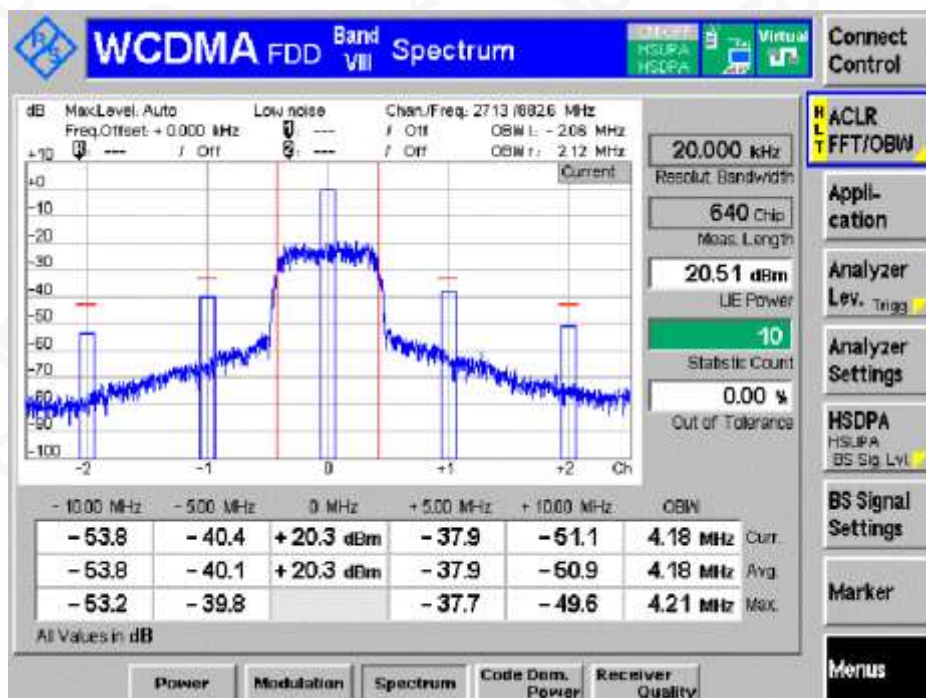
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

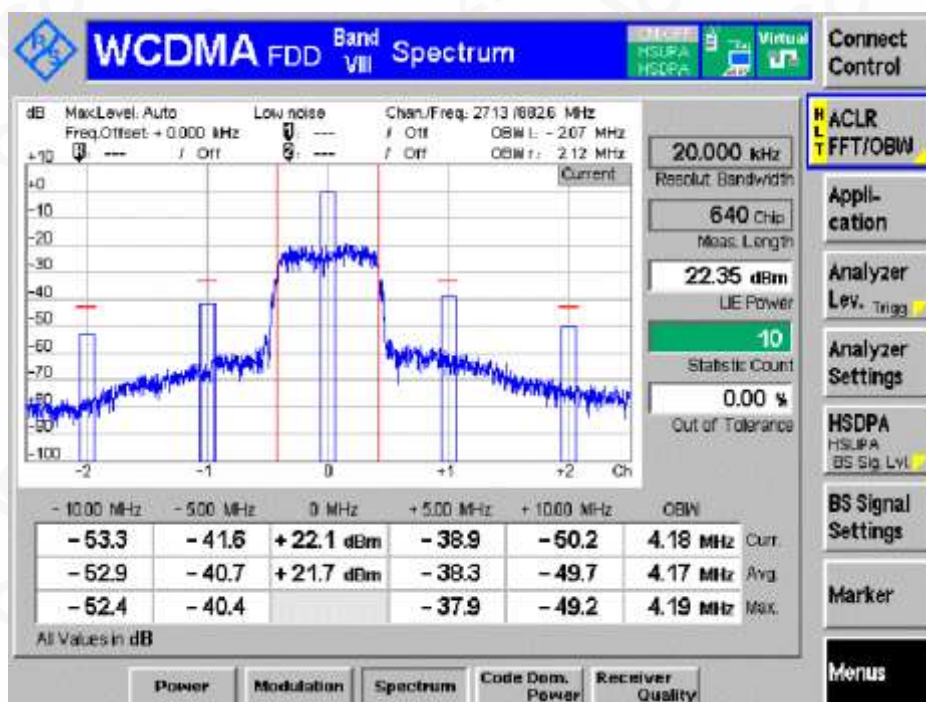
Service Hotline: 400 089 2118



### Sub-test 2

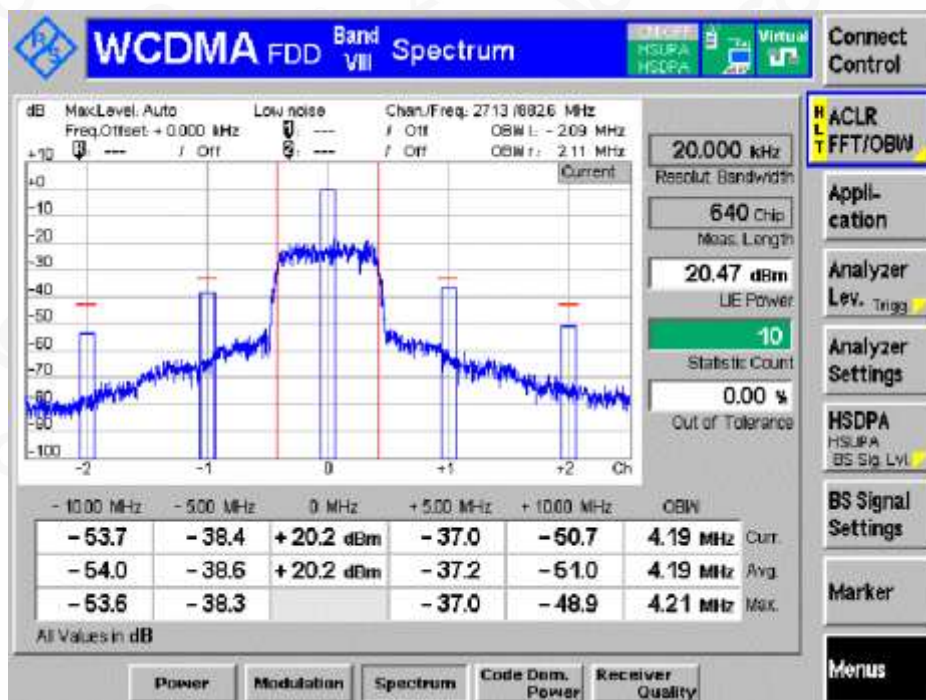


### Sub-test 3

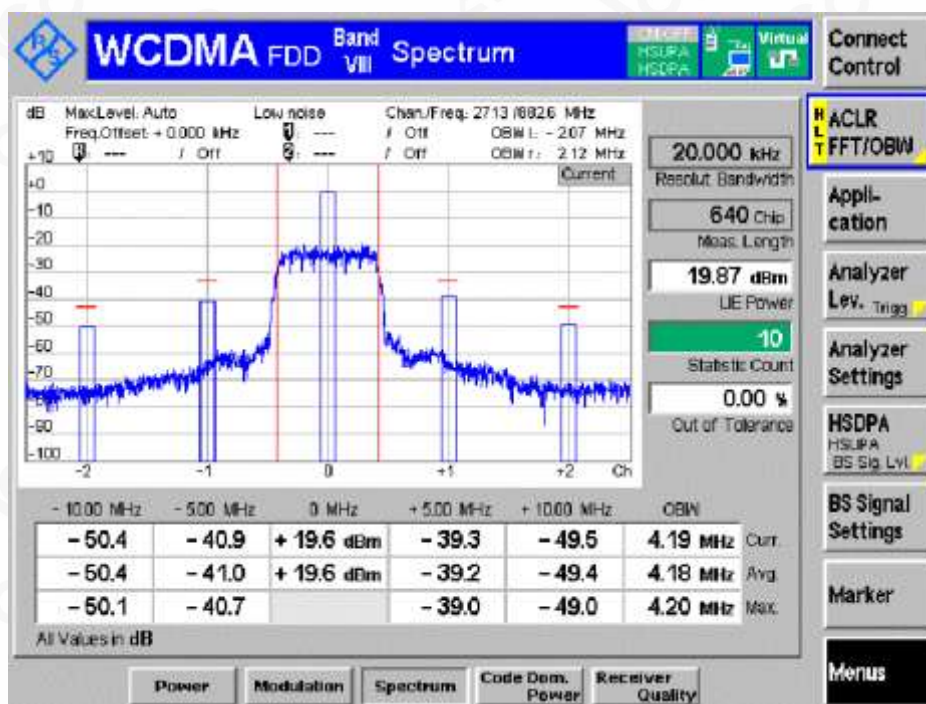




#### Sub-test 4

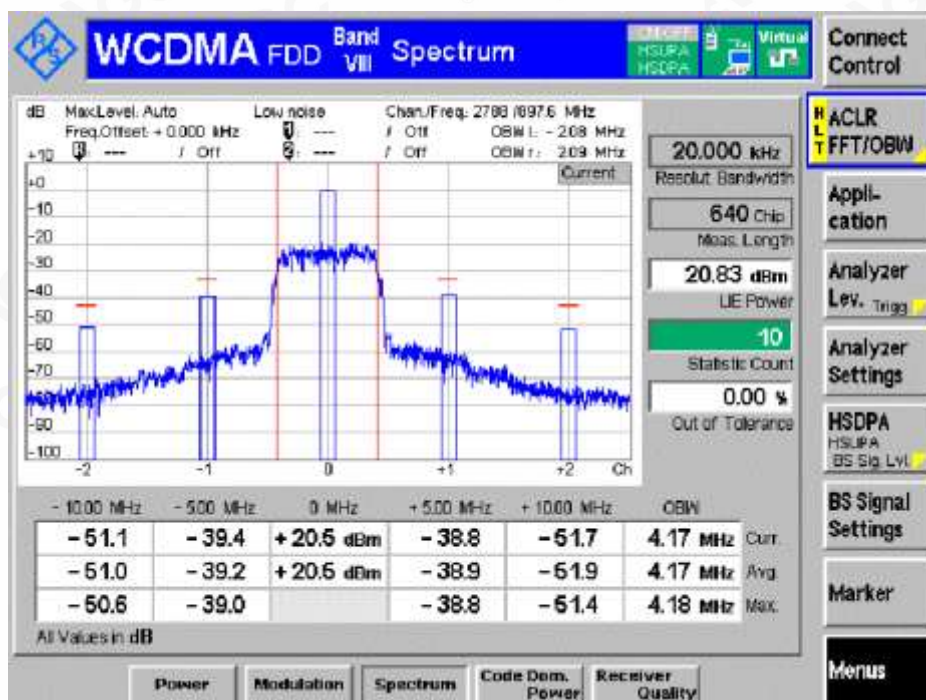


#### Sub-test 5

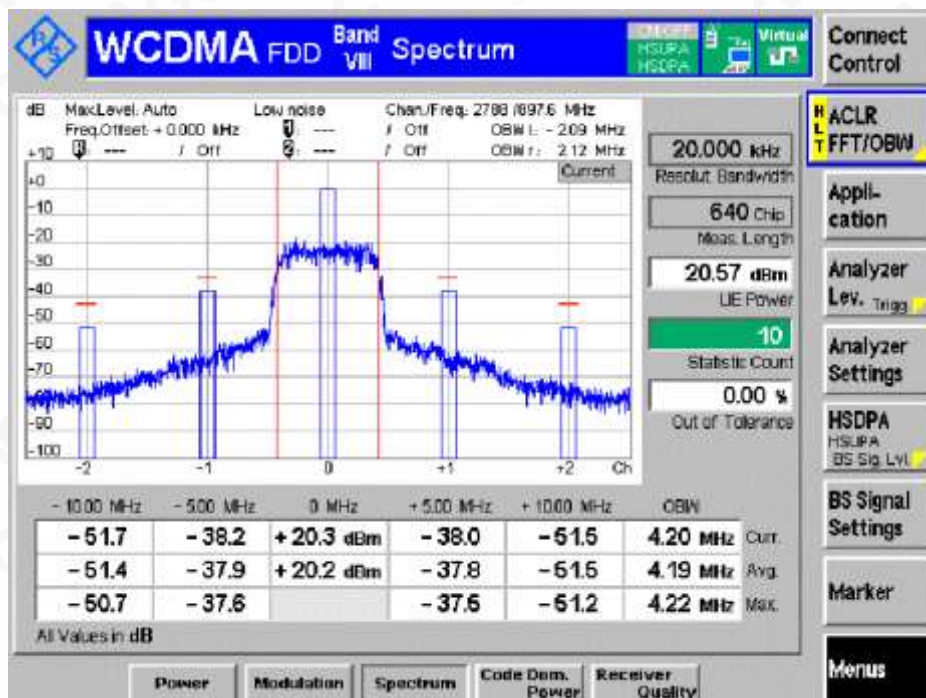


## Channel MCH

### Sub-test 1

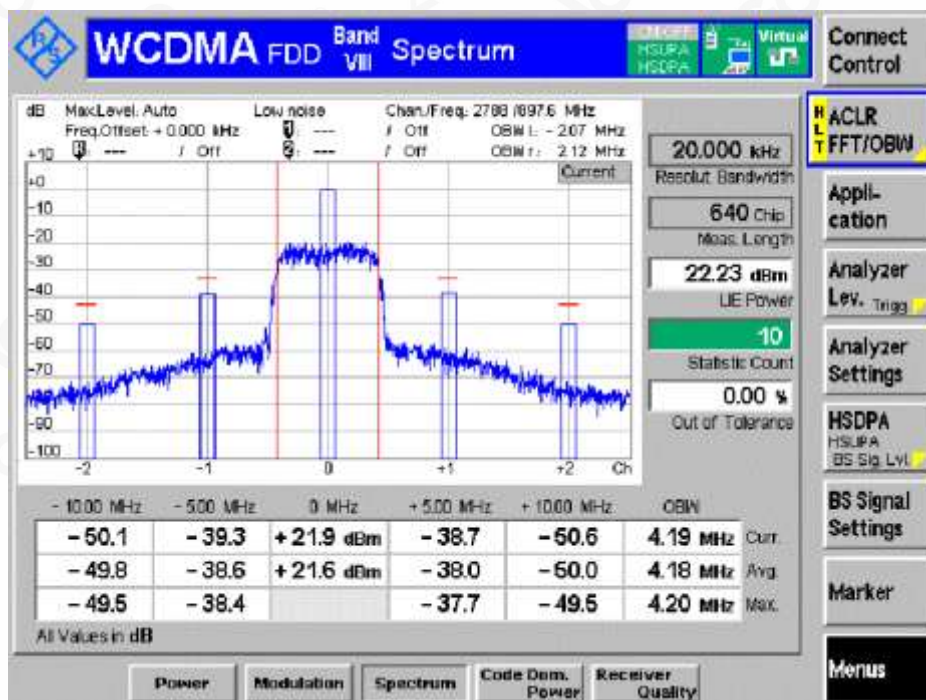


### Sub-test 2

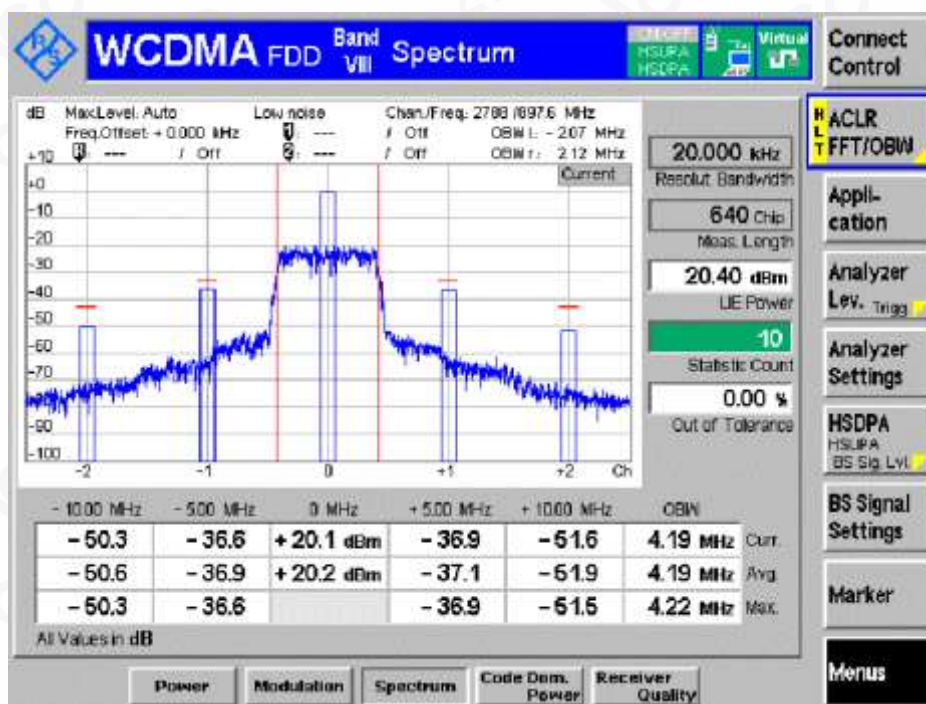




### Sub-test 3

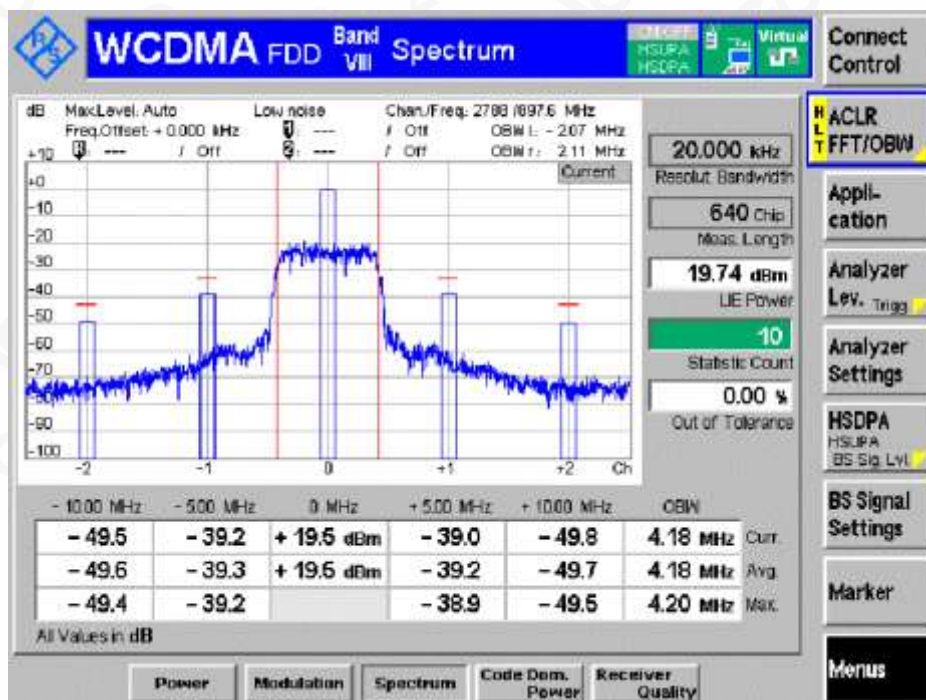


### Sub-test 4



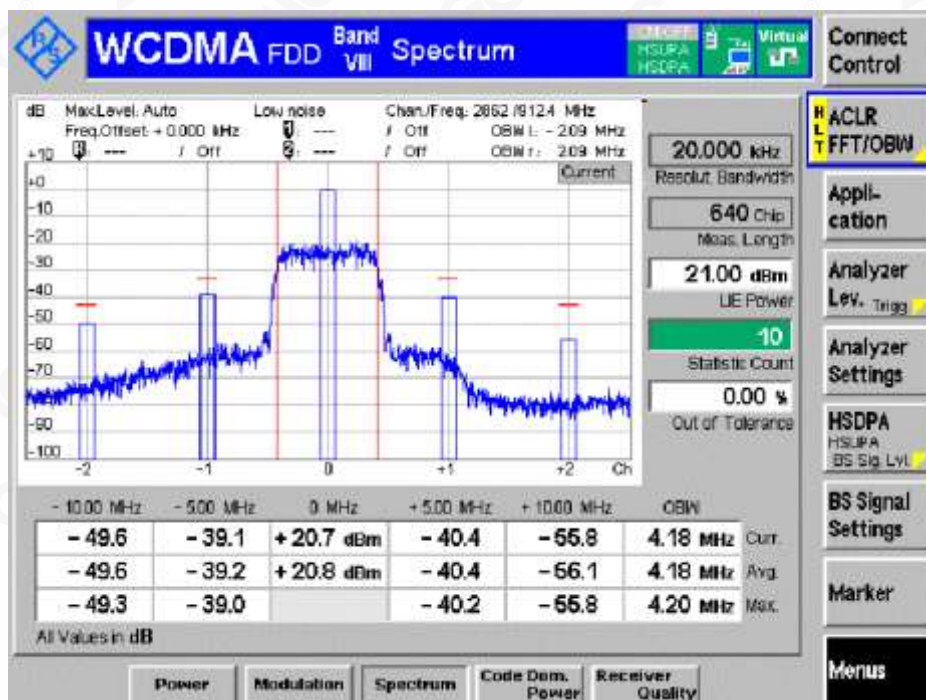


## Sub-test 5

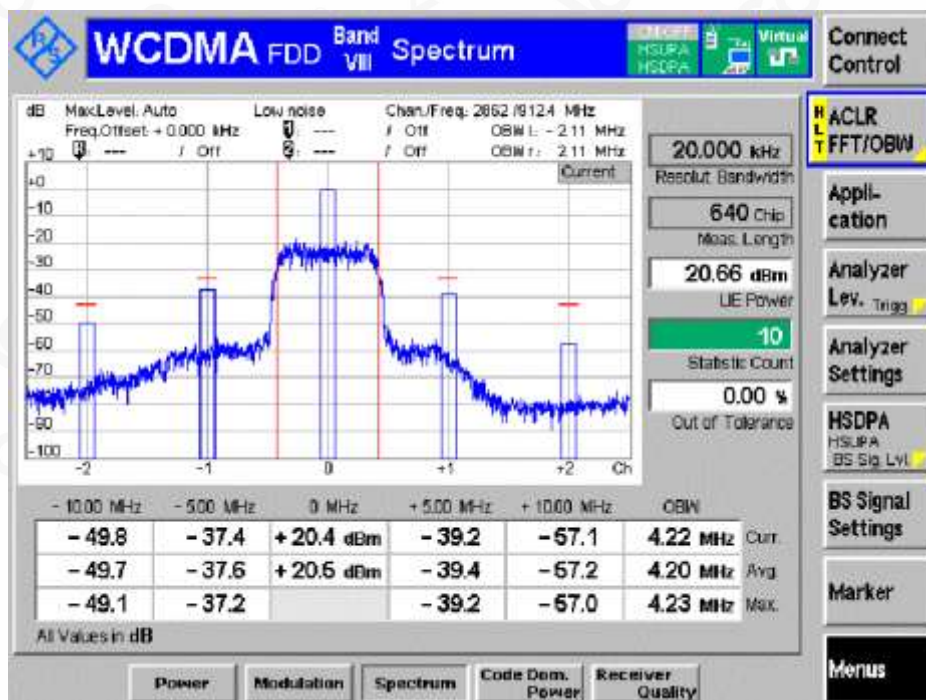


## Channel HCH

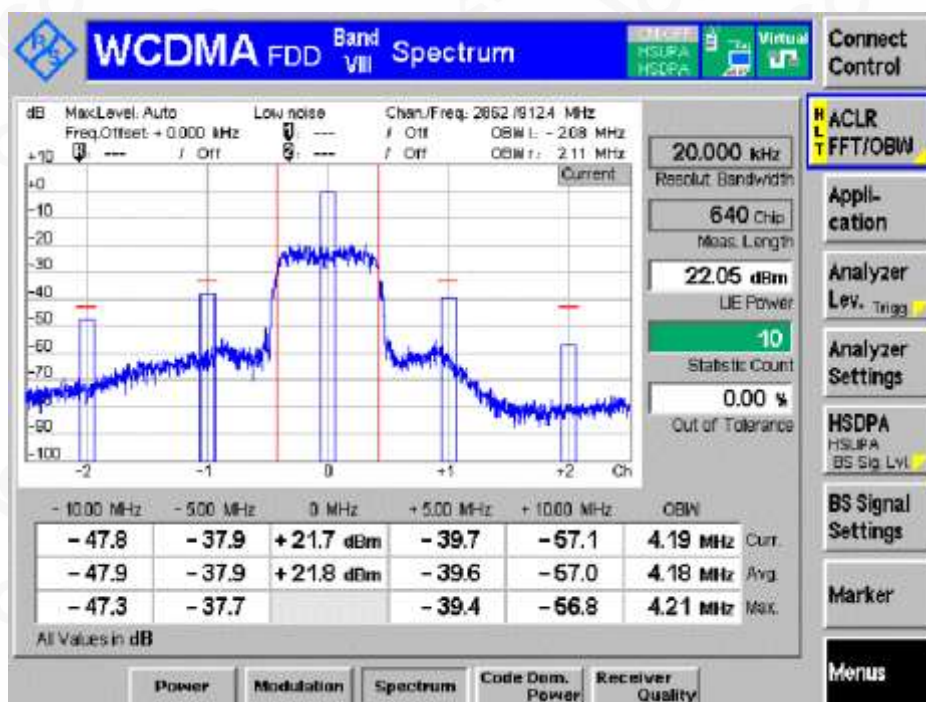
### Sub-test 1



### Sub-test 2

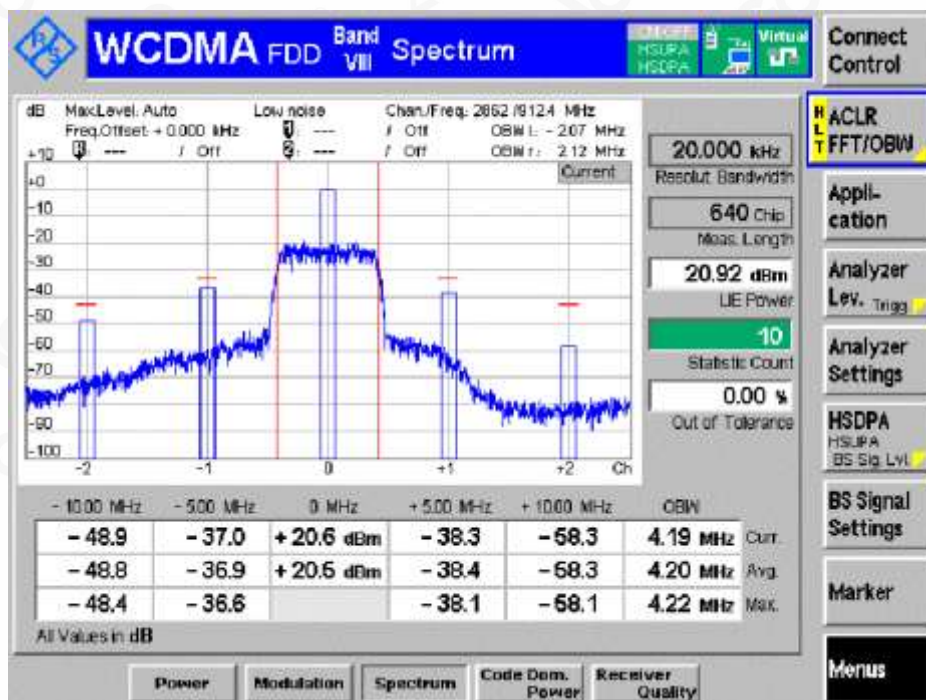


### Sub-test 3

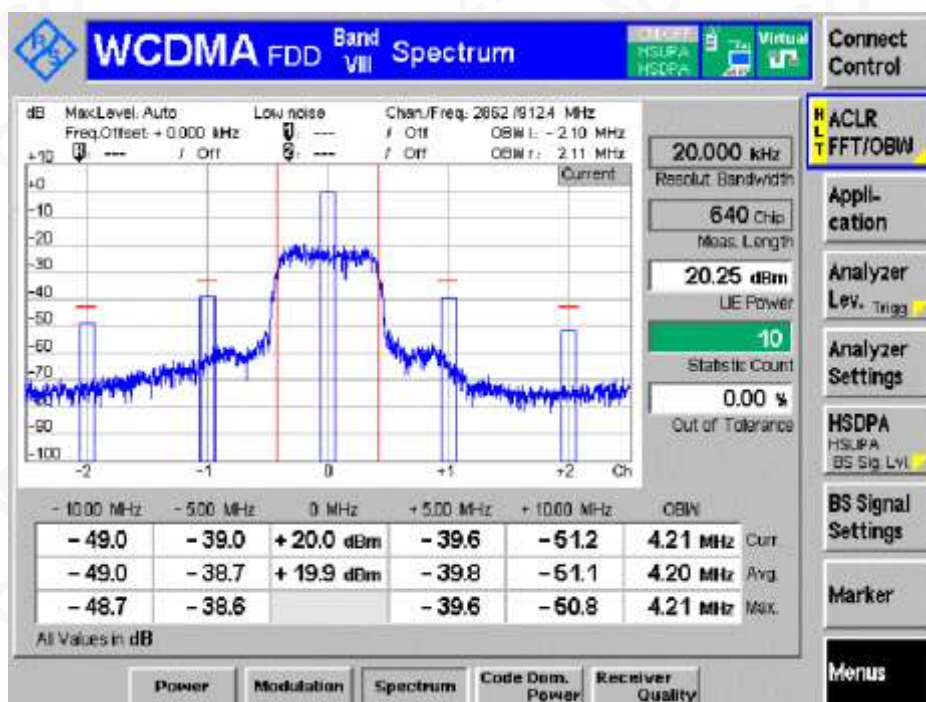




#### Sub-test 4



#### Sub-test 5





# Appendix L. Receiver spurious emissions

Frequency	RBW	Max .Level (dbm)	Test Band=Band I			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
30 MHz ≤f < 1 GHz	100kHz	-57	-60.5414749145508	-60.6264205932617	-60.7668930053711	Pass
1 GHz ≤f ≤12.75 GHz	1 MHz	-47	-52.1449234008789	-52.1484329223633	-52.0995513916016	Pass
791 MHz ≤f ≤ 821 MHz	3.84MHz	-60	-71.1773300170898	-71.1647186279297	-71.1814804077148	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-67.9801498413086	-67.6618515014648	-67.7416397094727	Pass
925 MHz ≤f ≤ 935 MHz	100 kHz	-67	-69.9557815551758	-69.62734375	-69.8490463256836	Pass
935 MHz < f ≤ 960 MHz	100 kHz	-79	-80.6453872680664	-80.553857421875	-80.5998168945312	Pass
1805MHz ≤f ≤ 1880MHz	100 kHz	-60	-80.1312561035156	-80.0514602661133	-80.1513824462891	Pass
1920MHz ≤f ≤ 1980MHz	3.84MHz	-60	-72.1009368896484	-72.1085662841797	-72.1106872558594	Pass
2 110 MHz ≤f ≤ 2 170	3.84MHz	-60	-71.5842102050781	-71.5293167114258	-71.5473678588867	Pass
2 585 MHz ≤f ≤ 2 690	3.84MHz	-60	-69.8078964233398	-69.8567245483398	-69.8446472167969	Pass



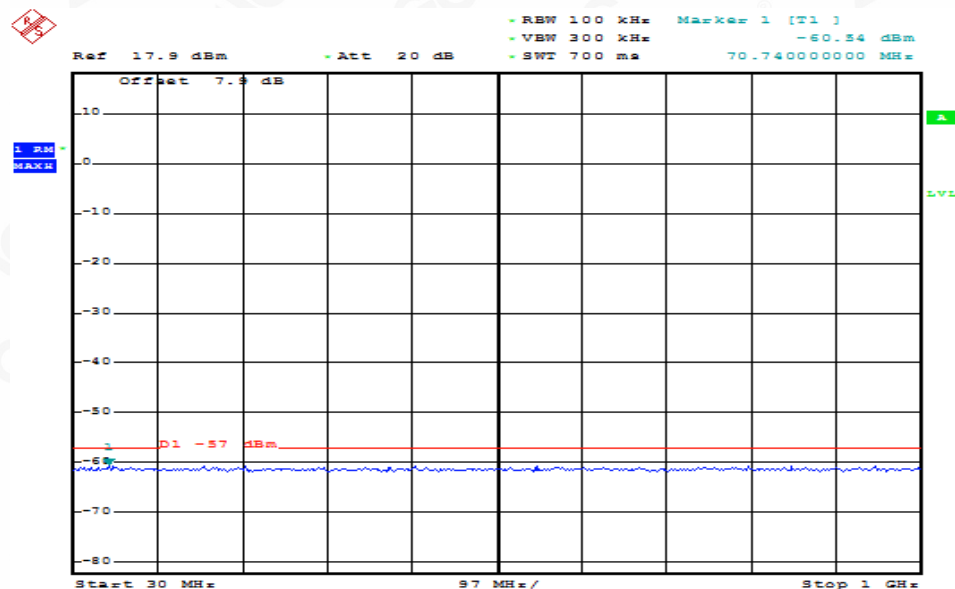
Frequency	RBW	Max .Level (dbm)	Test Band=Band VIII			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
30 MHz ≤f < 1 GHz	100kHz	-57	-60.564469909668	-60.7539306640625	-60.7047286987305	Pass
1 GHz ≤f ≤12.75 GHz	1 MHz	-47	-51.8928558349609	-51.9782363891602	-51.8654205322266	Pass
791 MHz ≤f ≤821 MHz	3.84MHz	-60	-71.0799865722656	-71.0624389648438	-71.0197982788086	Pass
880 MHz ≤f < 915 MHz	3.84 Hz	-60	-67.5736175537109	-68.7387176513672	-66.8314300537109	Pass
921 MHz ≤f ≤925 MHz	100 kHz	-60	-67.6272521972656	-67.7447143554687	-67.8678451538086	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-70.5093475341797	-70.4886795043945	-70.4822479248047	Pass
925 MHz ≤f ≤935 MHz	3.84MHz	-60	-71.8838134765625	-71.896501159668	-71.9081436157227	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-80.4978424072266	-80.6358200073242	-80.6026473999023	Pass
1805MHz ≤f ≤1880MHz	3.84MHz	-60	-71.9493408203125	-72.0394744873047	-72.0003433227539	Pass
2 110 MHz ≤f ≤2 170 MHz	3.84MHz	-60	-71.4977996826172	-71.3750503540039	-71.4008605957031	Pass
2 585 MHz ≤f ≤2 690 MHz	3.84MHz	-60	-69.7072036743164	-69.7127807617187	-69.6767776489258	Pass



# BAND I

## Channel LCH

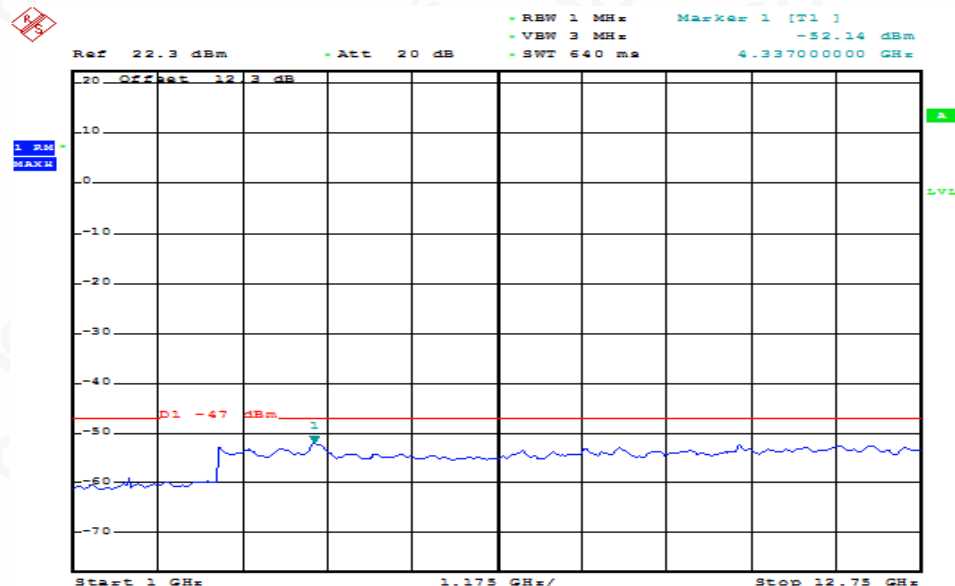
30MHZ~1GHZ



AAA

Date: 16.OCT.2019 12:18:33

1GHZ~12.75GHZ

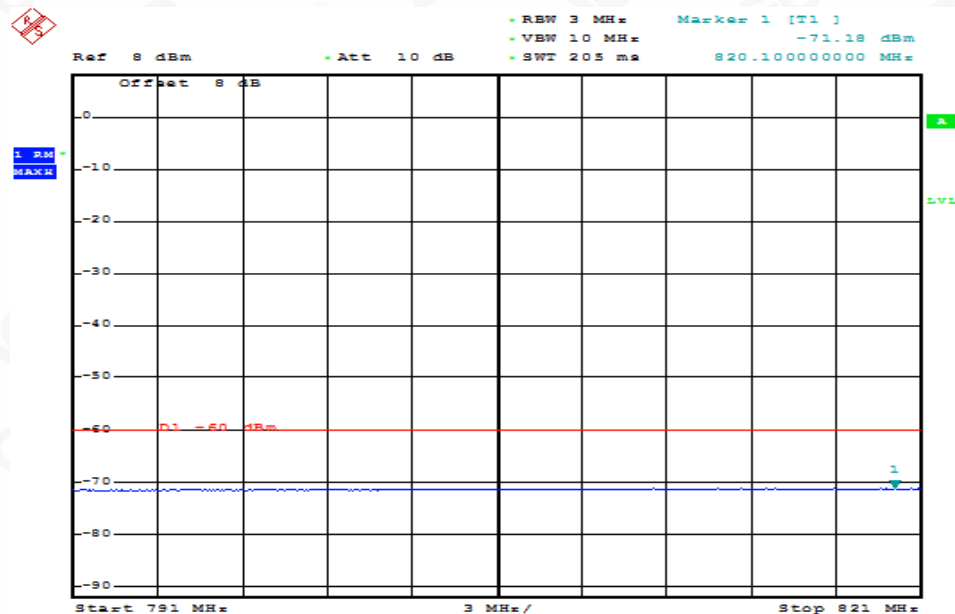


AAA

Date: 16.OCT.2019 12:18:53



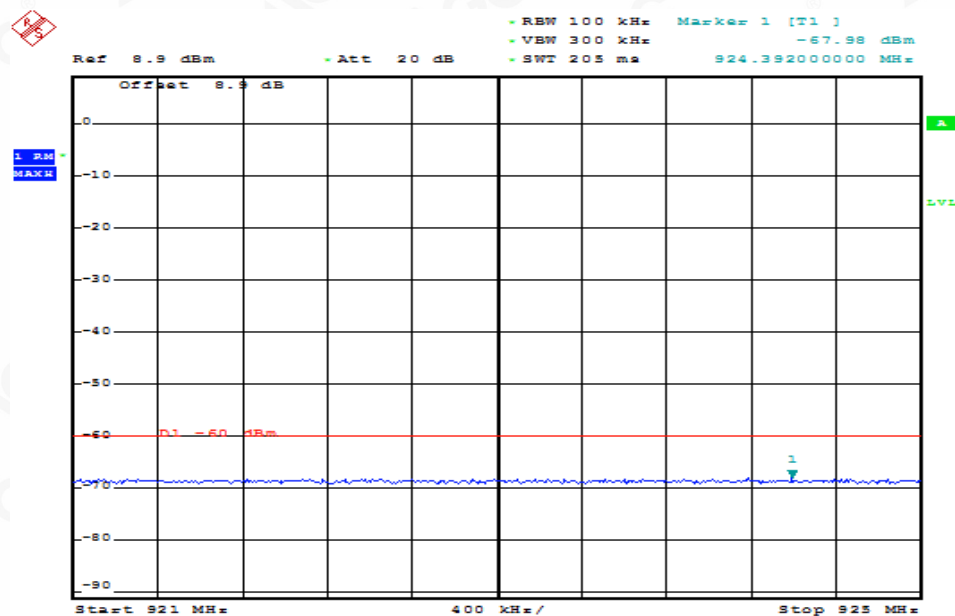
## 791MHZ~821MHZ



AAA

Date: 16.OCT.2019 12:19:19

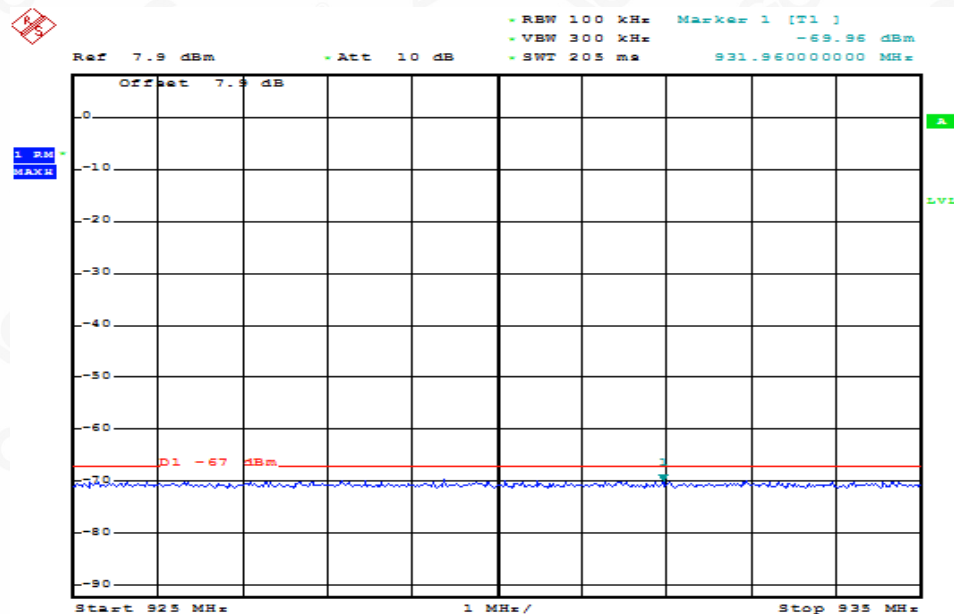
## 921MHZ~925MHZ



AAA

Date: 16.OCT.2019 12:19:45

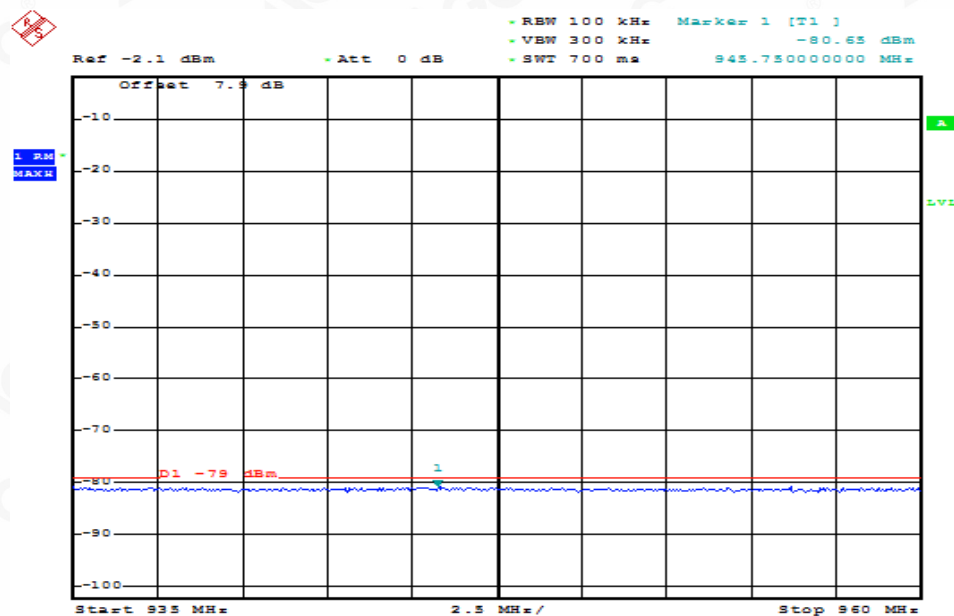
## 925MHZ~935MHZ



AAA

Date: 16.OCT.2019 12:20:10

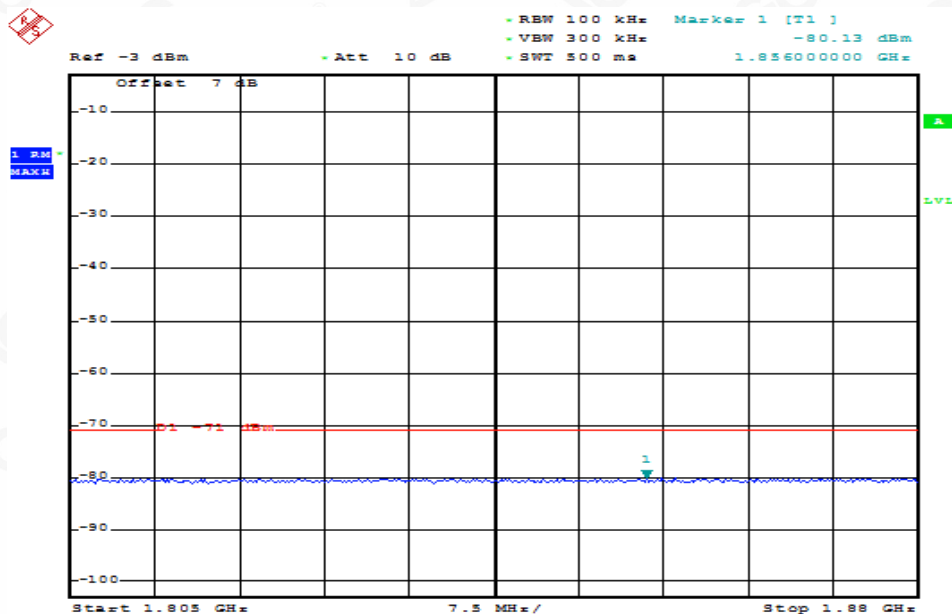
## 935MHZ~960MHZ



AAA

Date: 16.OCT.2019 12:20:24

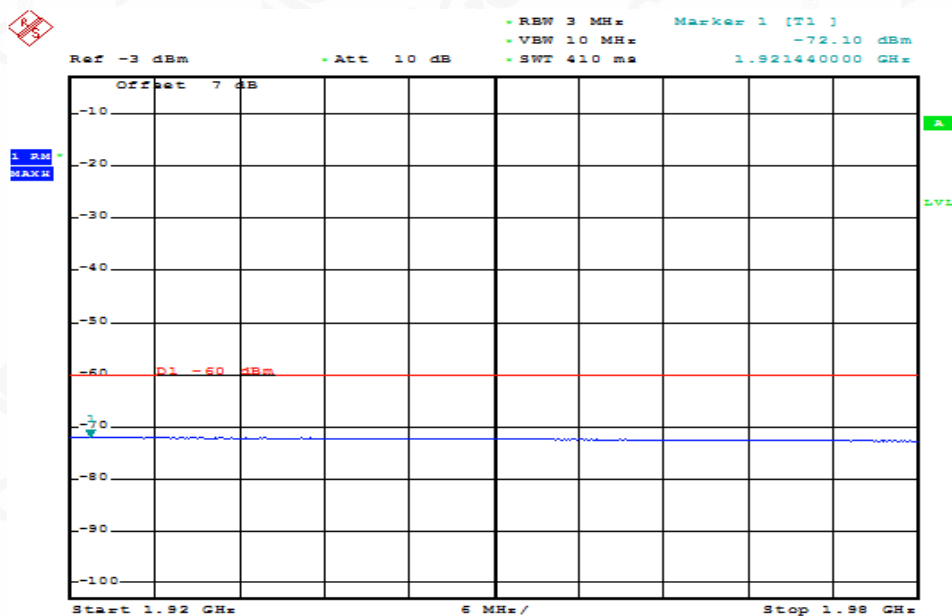
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 12:20:31

1920MHZ~1980MHZ

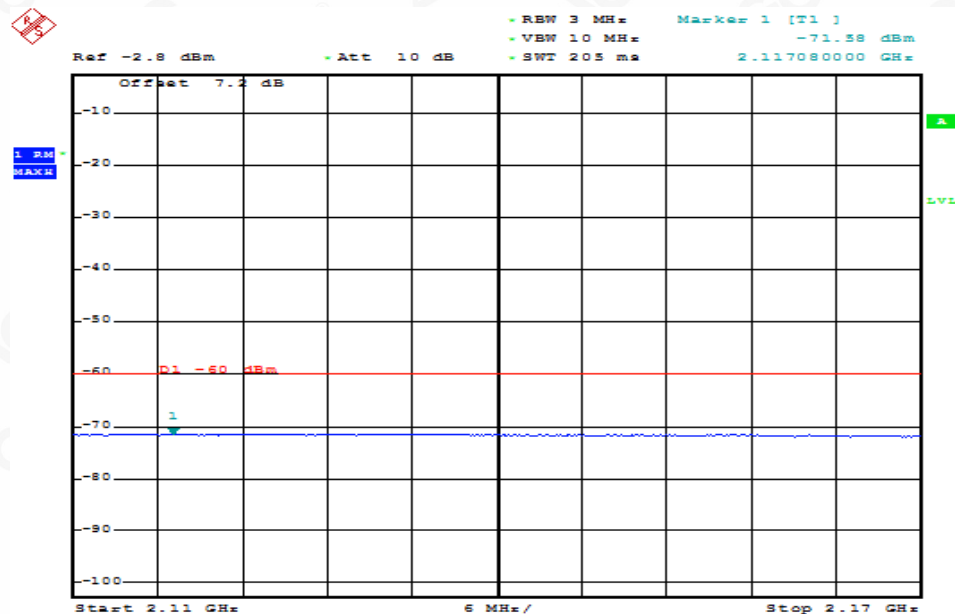


AAA

Date: 16.OCT.2019 12:21:09



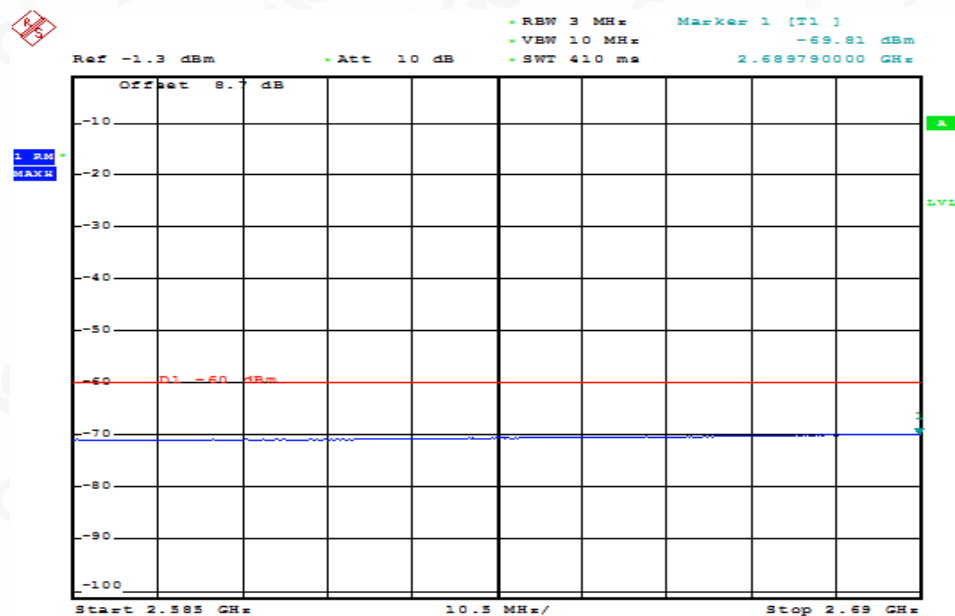
## 2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 12:21:35

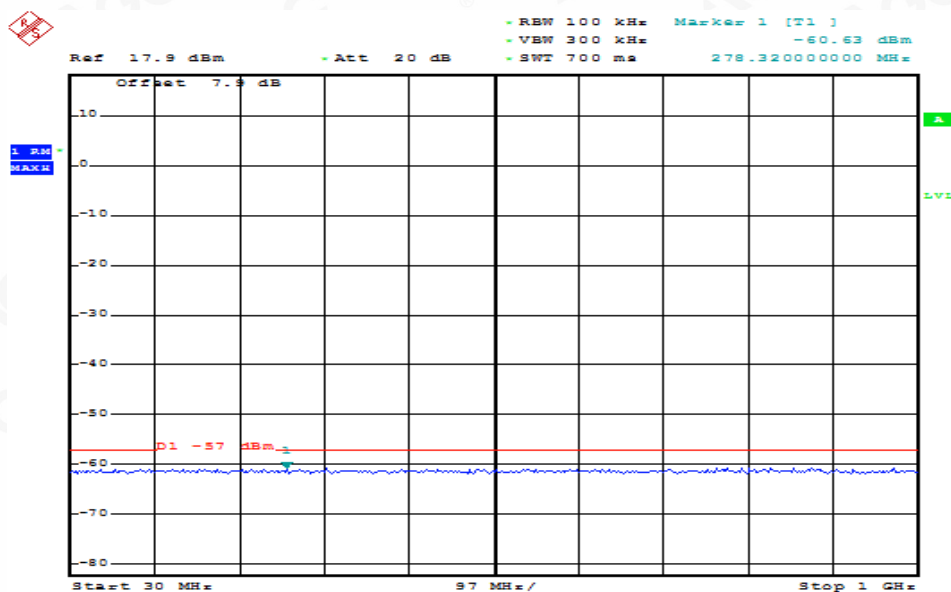
## 2585MHZ~2690MHZ



AAA

Date: 16.OCT.2019 12:21:55

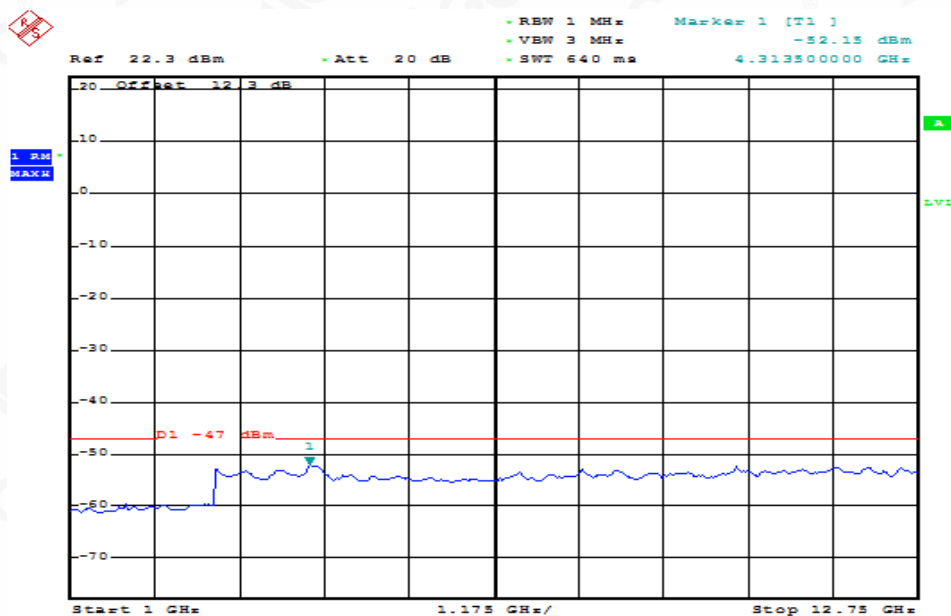
# Channel MCH 30MHz~1GHz



AAA

Date: 16.OCT.2019 12:22:23

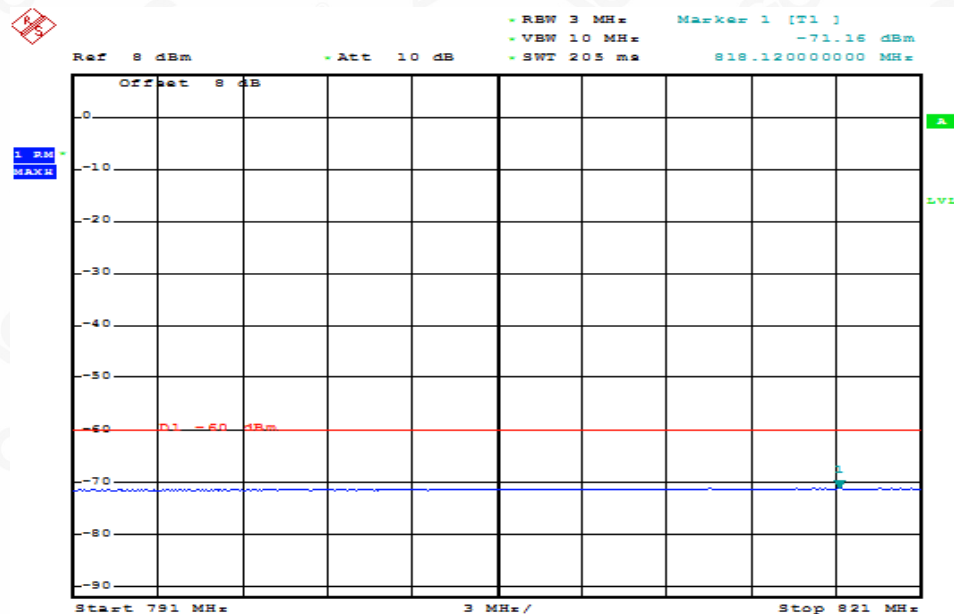
# 1GHz~12.75GHz



AAA

Date: 16.OCT.2019 12:22:43

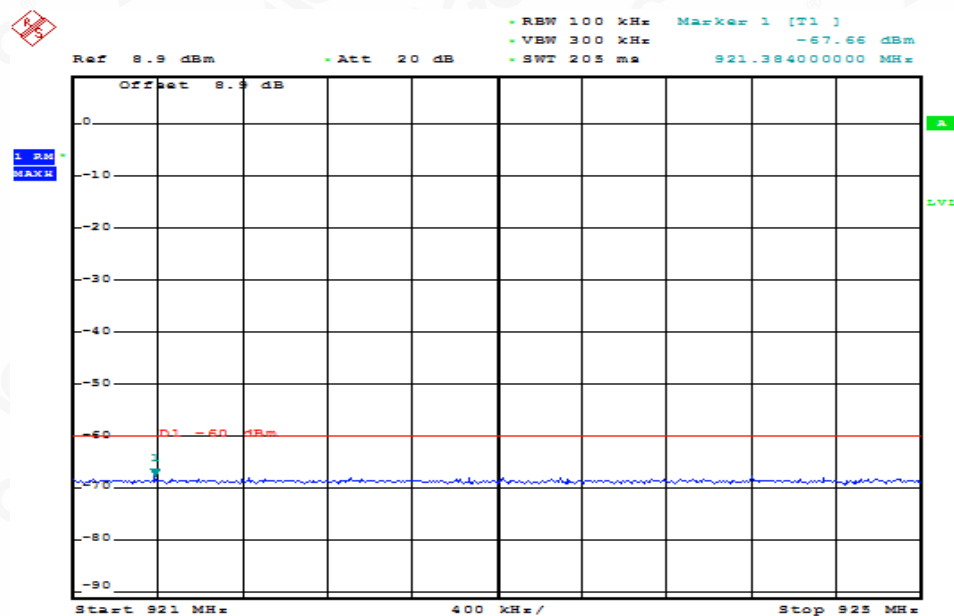
## 791MHZ~821MHZ



AAA

Date: 16.OCT.2019 12:23:09

## 921MHZ~925MHZ

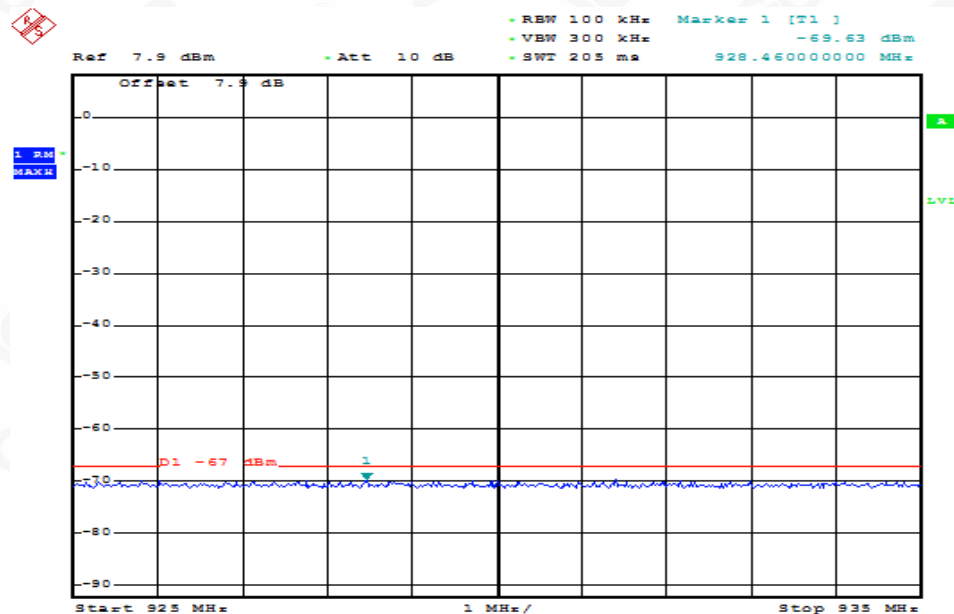


AAA

Date: 16.OCT.2019 12:23:35



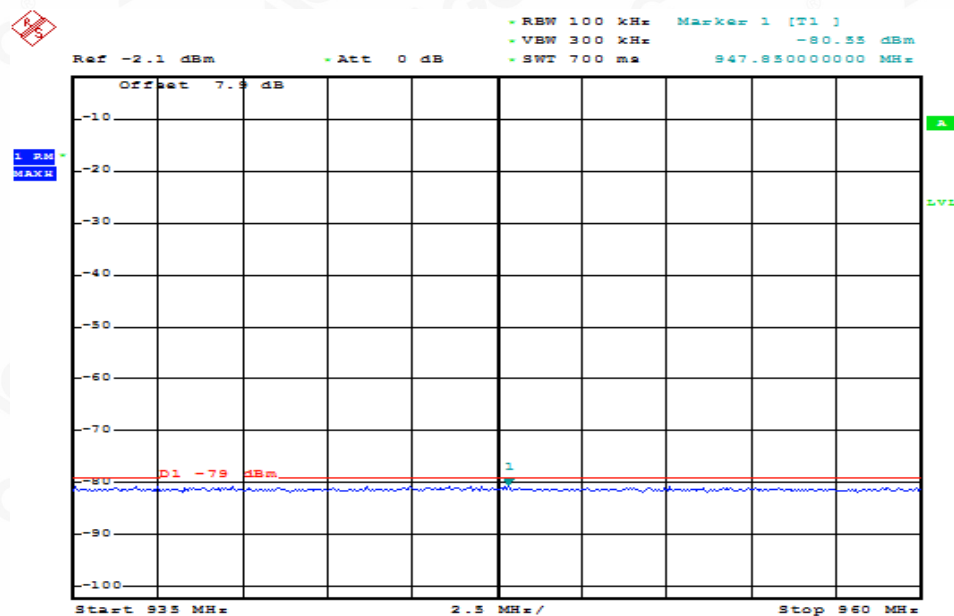
### 925MHZ~935MHZ



AAA

Date: 16.OCT.2019 12:24:01

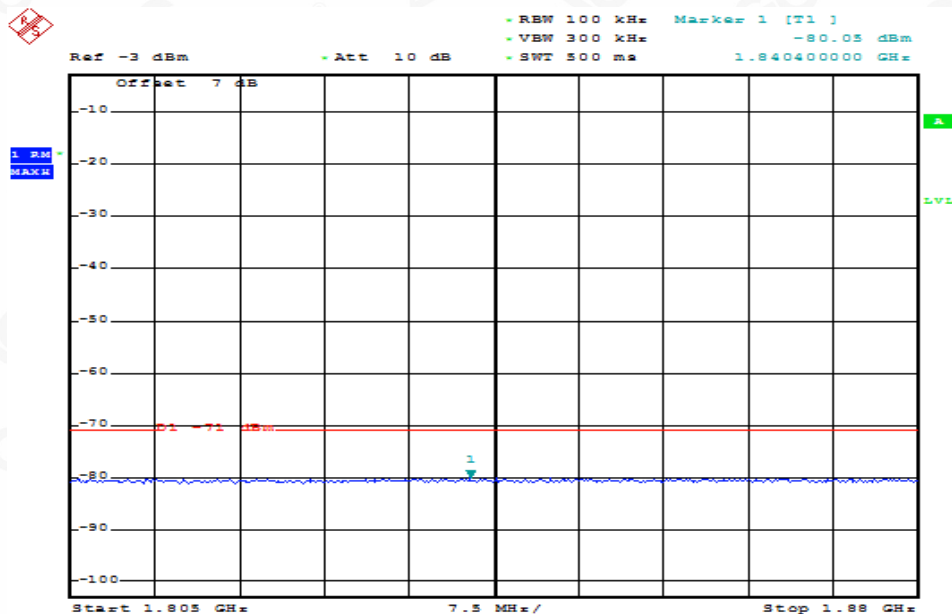
### 935MHZ~960MHZ



AAA

Date: 16.OCT.2019 12:24:14

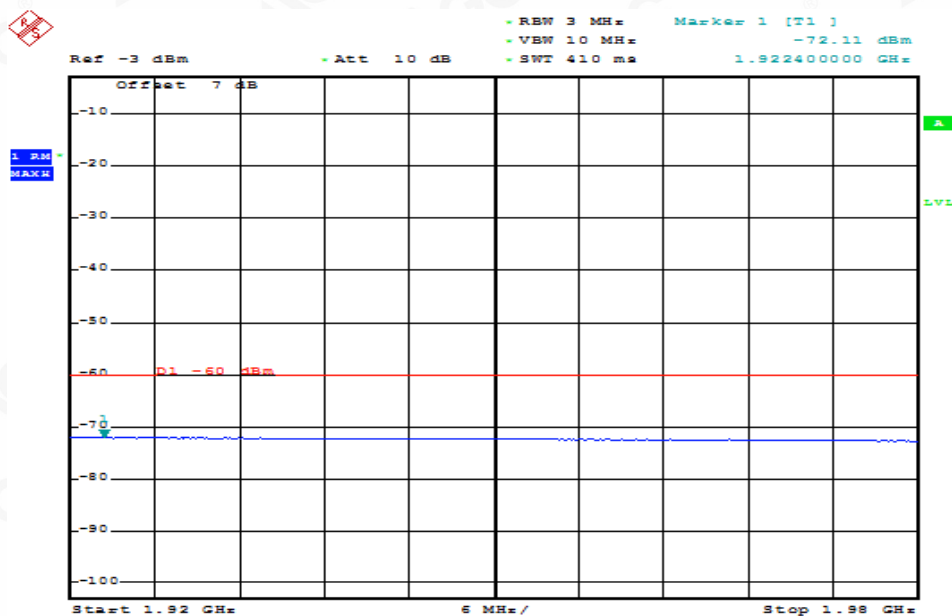
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 12:24:21

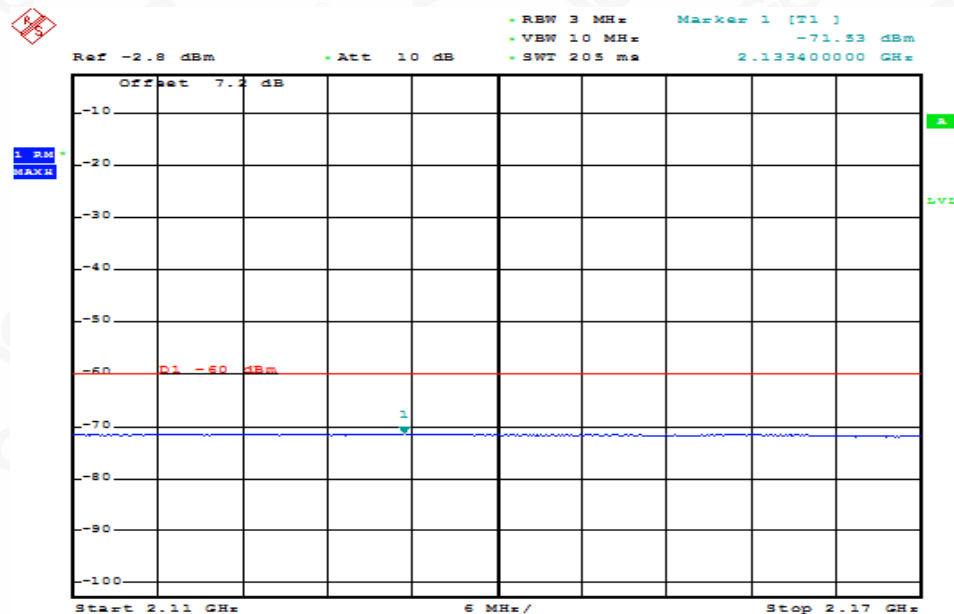
1920MHZ~1980MHZ



AAA

Date: 16.OCT.2019 12:24:59

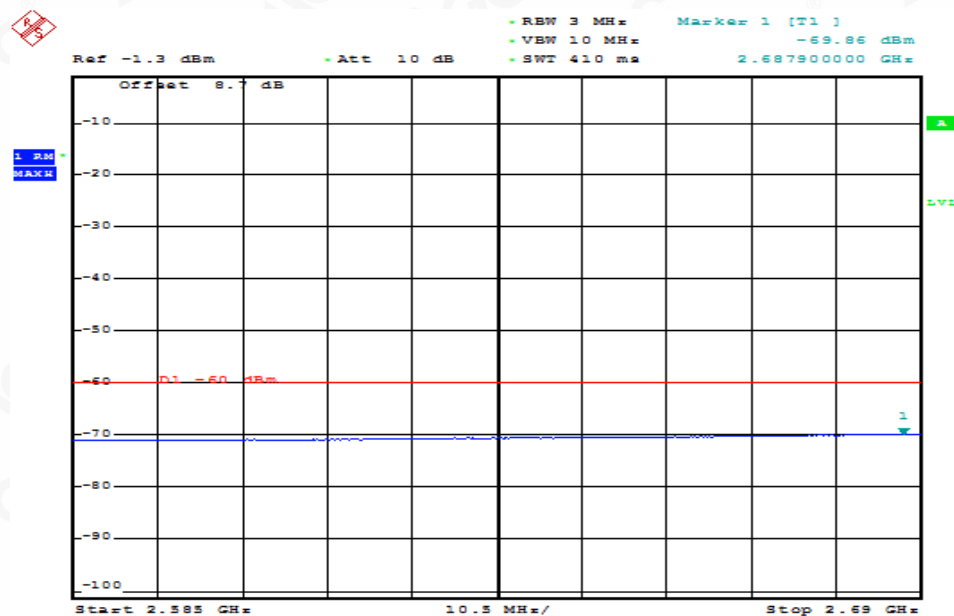
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 12:25:25

2585MHZ~2690MHZ

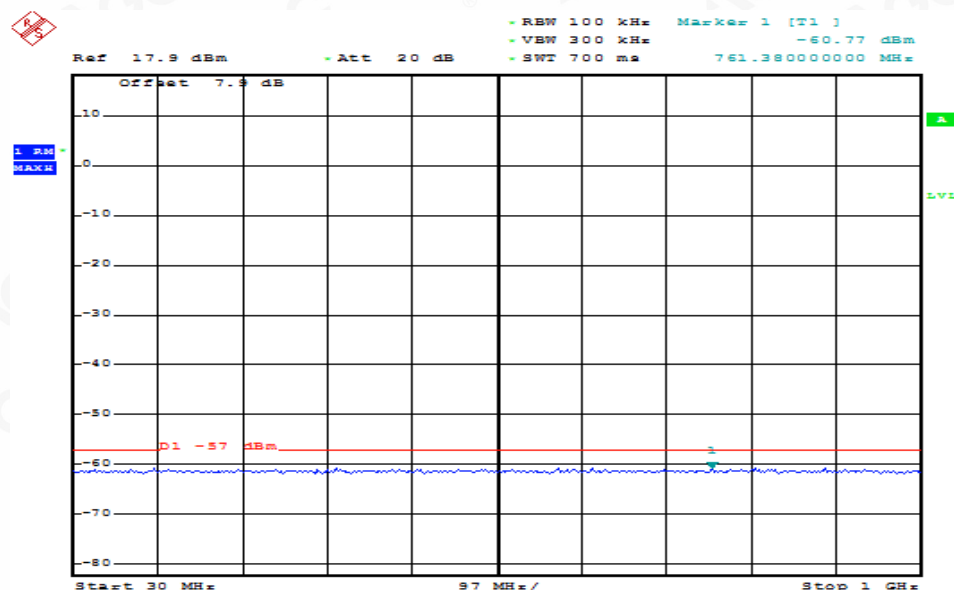


AAA

Date: 16.OCT.2019 12:25:45



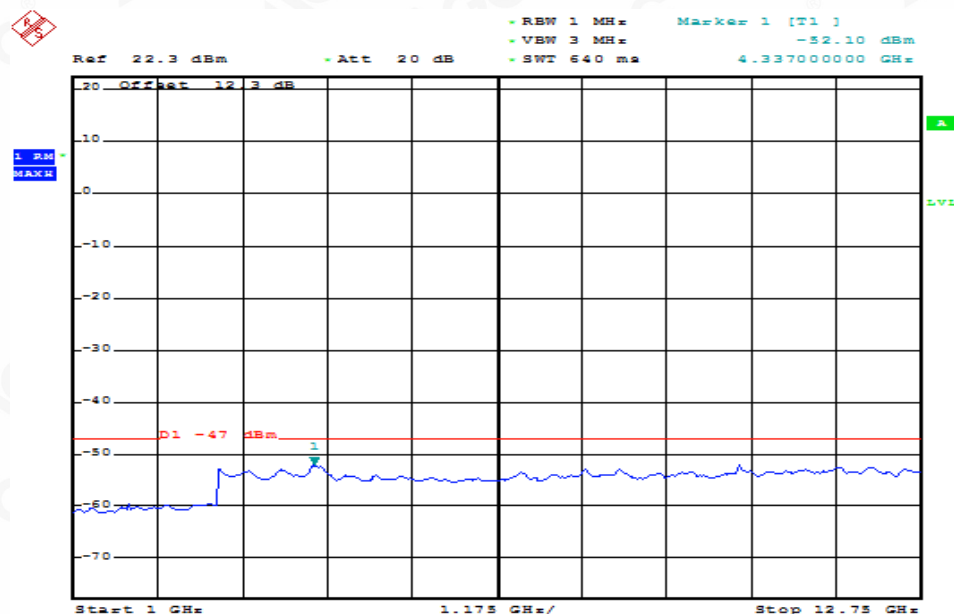
# Channel HCH 30MHz~1GHz



AAA

Date: 16.OCT.2019 12:26:14

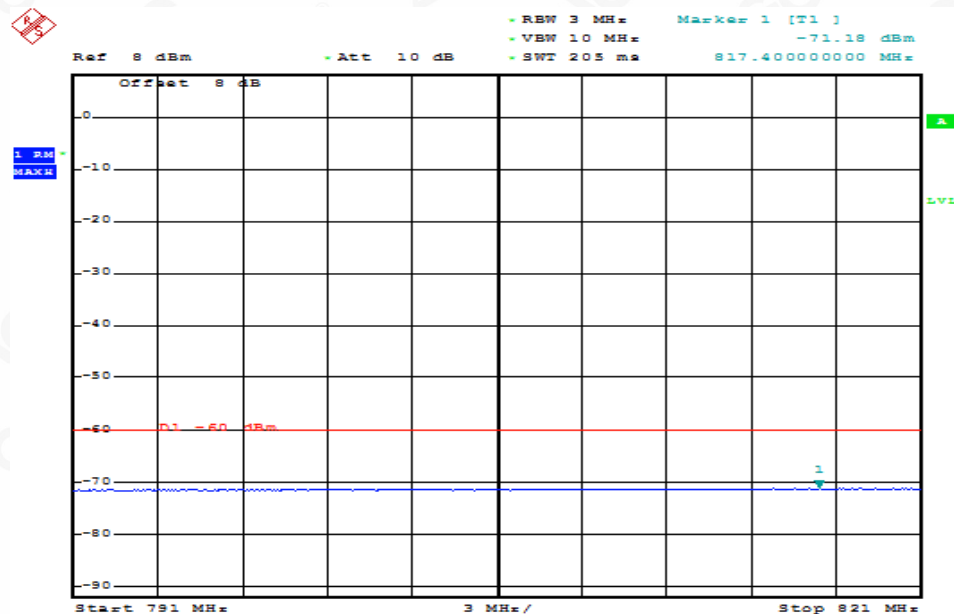
# 1GHz~12.75GHz



AAA

Date: 16.OCT.2019 12:26:33

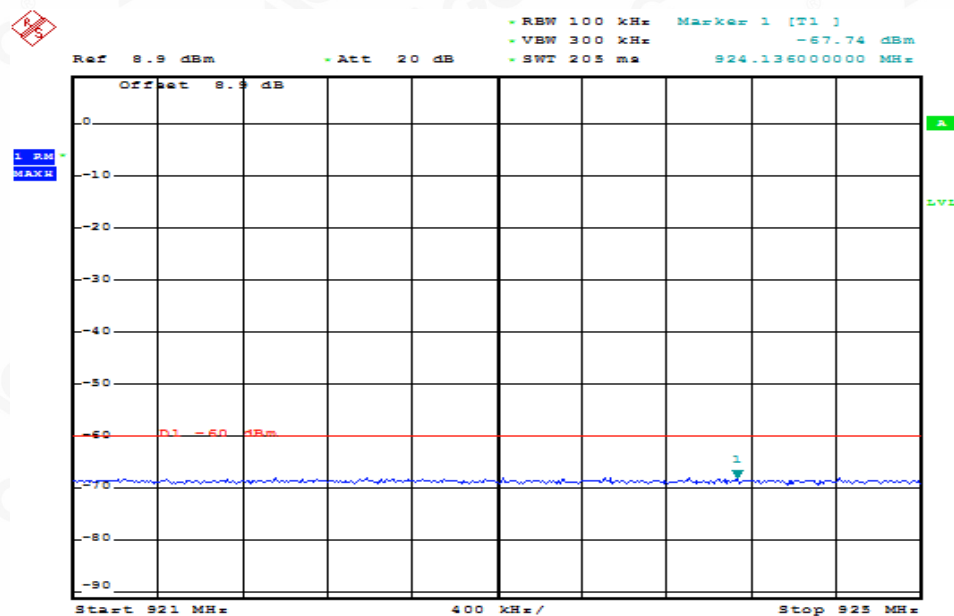
### 791MHZ~821MHZ



AAA

Date: 16.OCT.2019 12:26:59

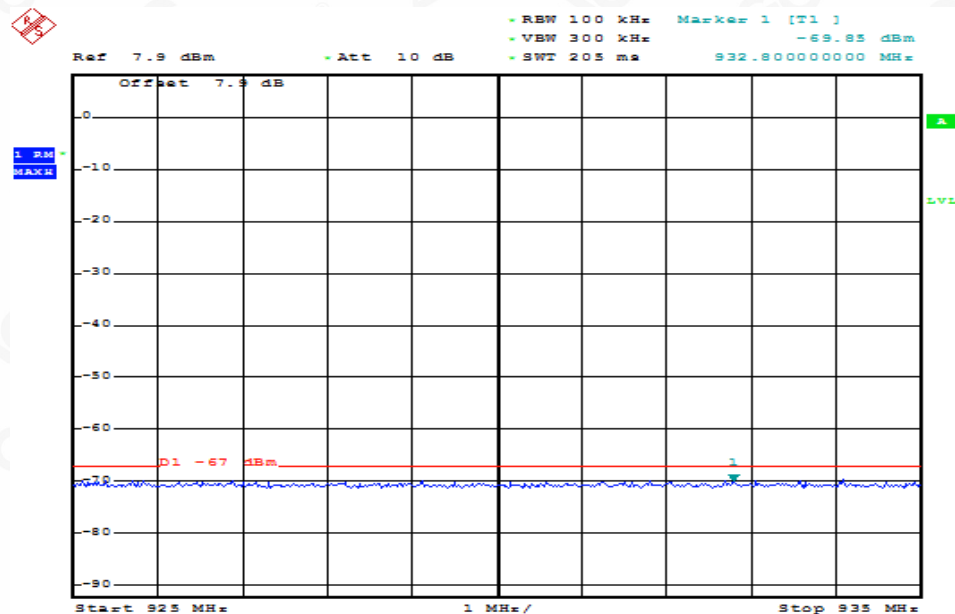
### 921MHZ~925MHZ



AAA

Date: 16.OCT.2019 12:27:25

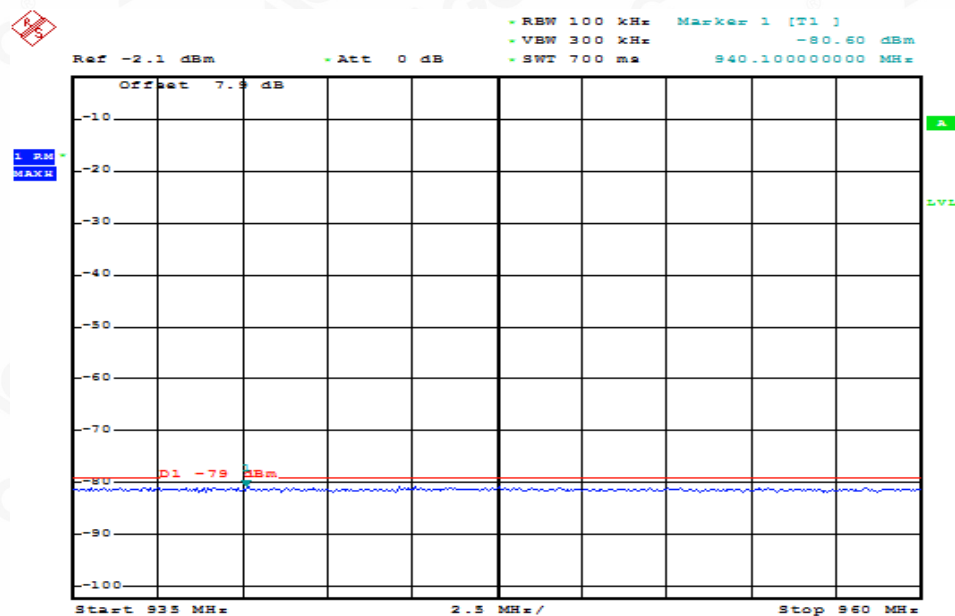
### 925MHZ~935MHZ



AAA

Date: 16.OCT.2019 12:27:51

### 935MHZ~960MHZ

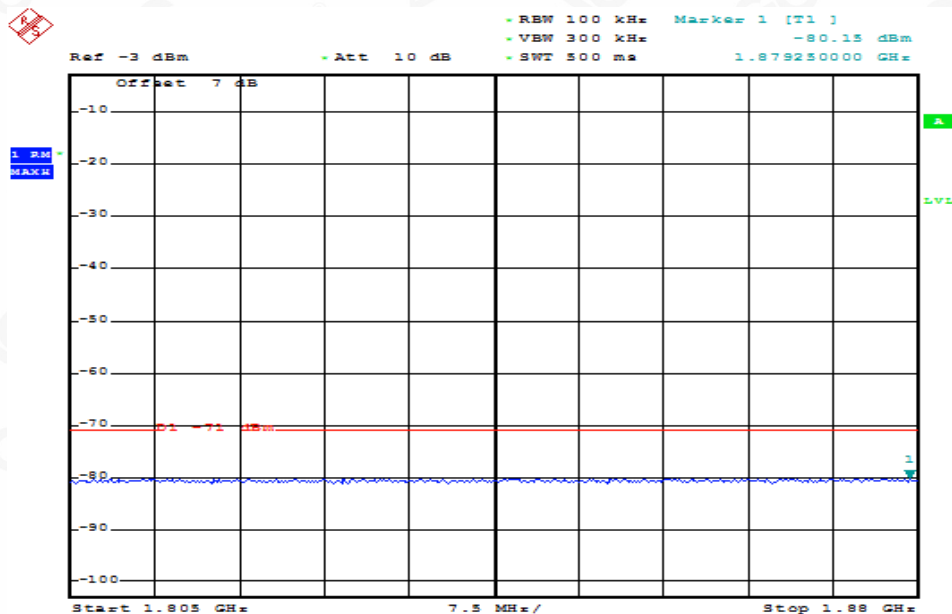


AAA

Date: 16.OCT.2019 12:28:04



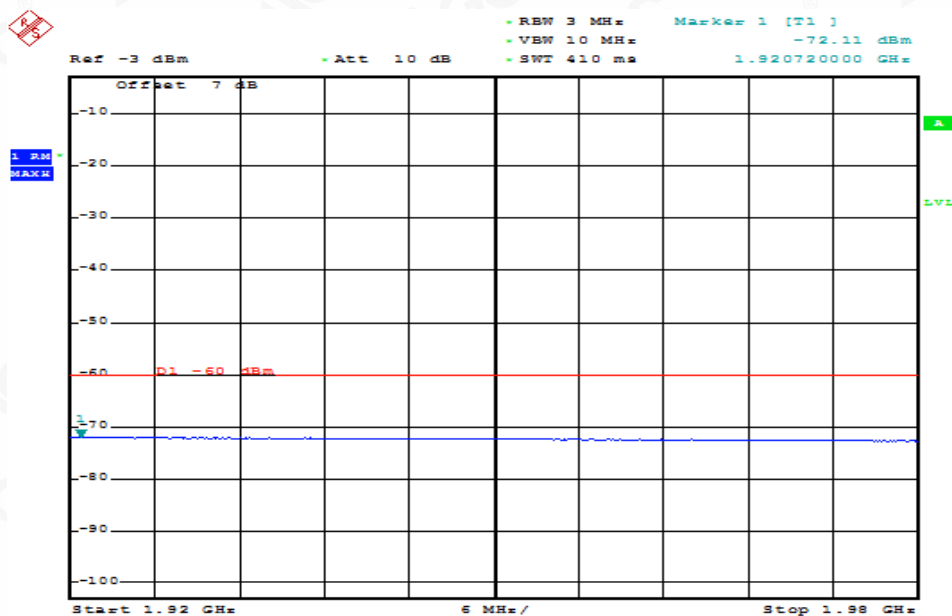
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 12:28:12

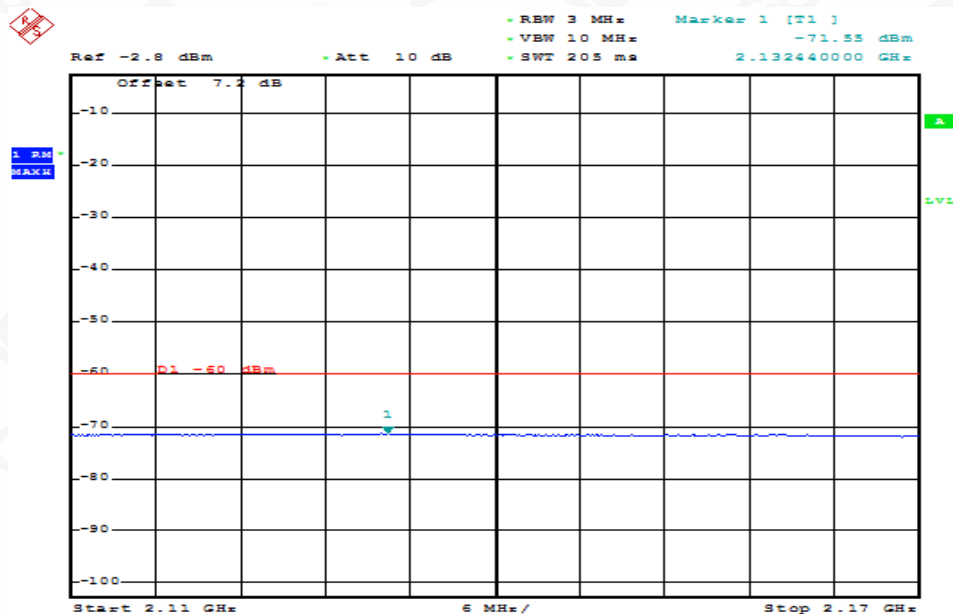
1920MHZ~1980MHZ



AAA

Date: 16.OCT.2019 12:28:50

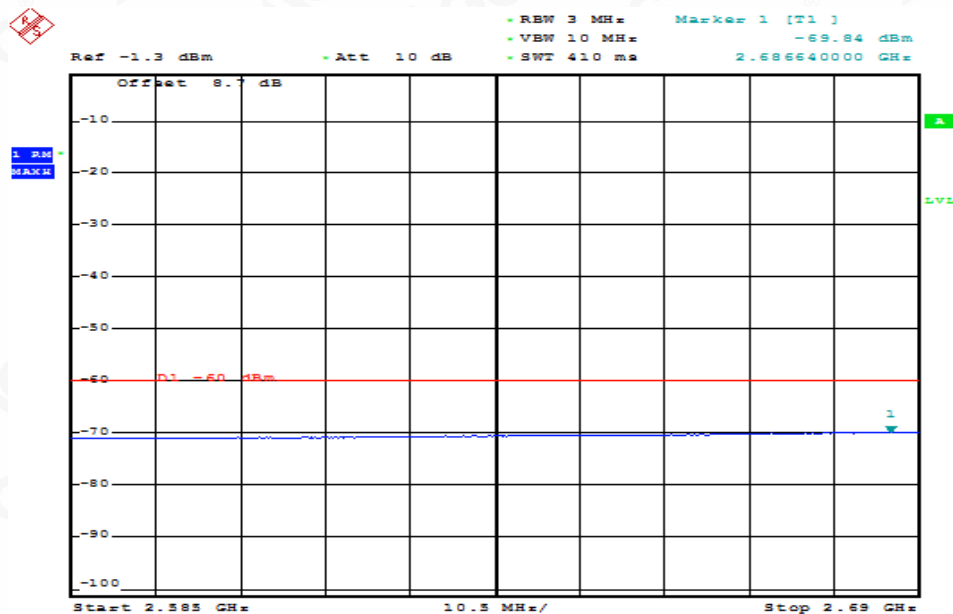
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 12:29:15

2585MHZ~2690MHZ



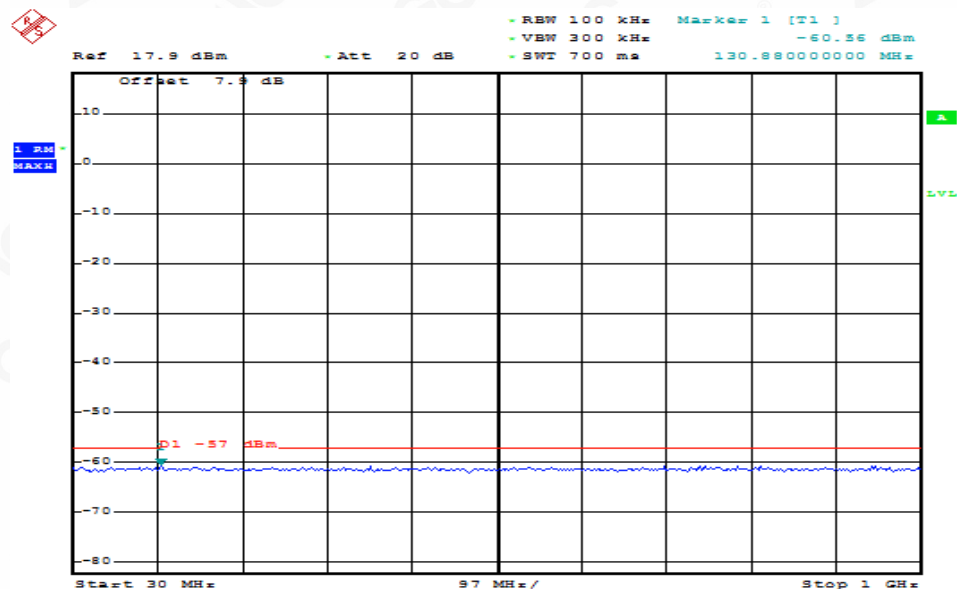
AAA

Date: 16.OCT.2019 12:29:35

# BAND VIII

## Channel LCH

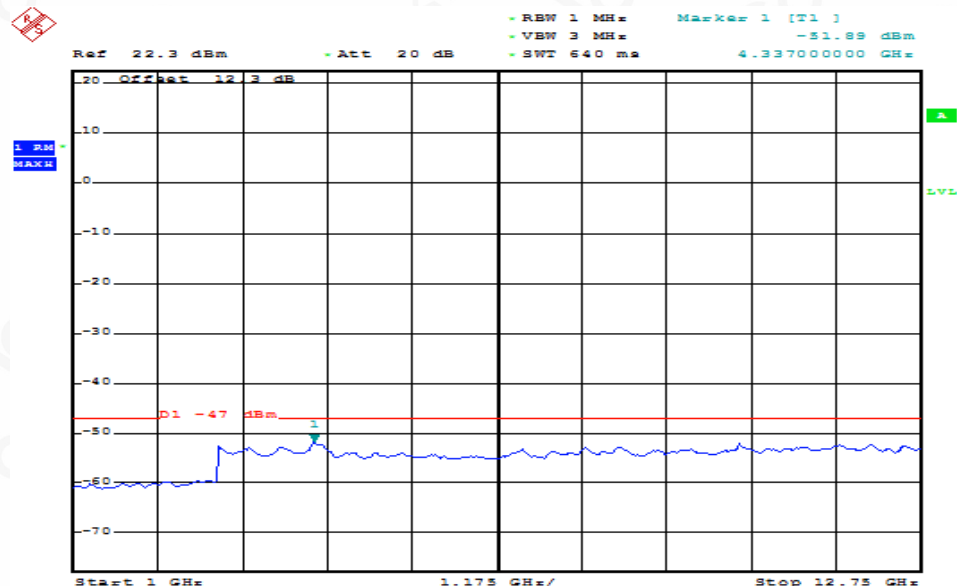
30MHZ~1GHZ



AAA

Date: 17.OCT.2019 10:08:16

1GHZ~12.75GHZ

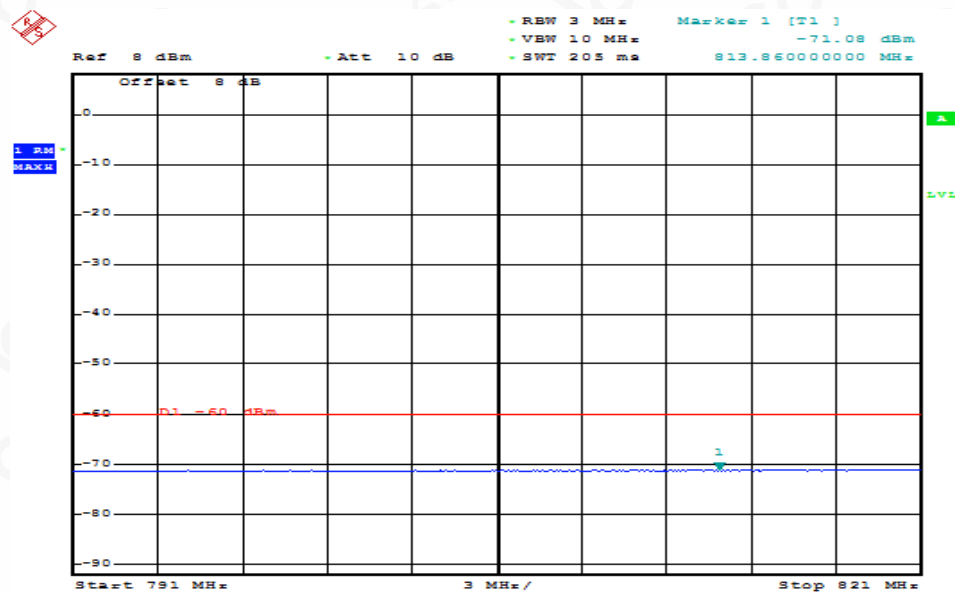


AAA

Date: 17.OCT.2019 10:08:36



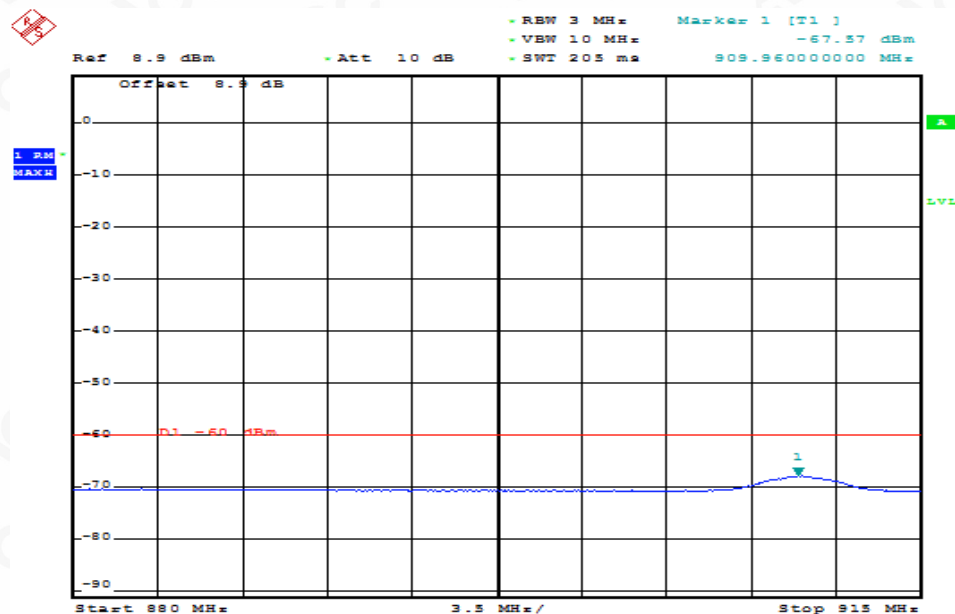
### 791MHZ~821MHZ



AAA

Date: 17.OCT.2019 10:09:01

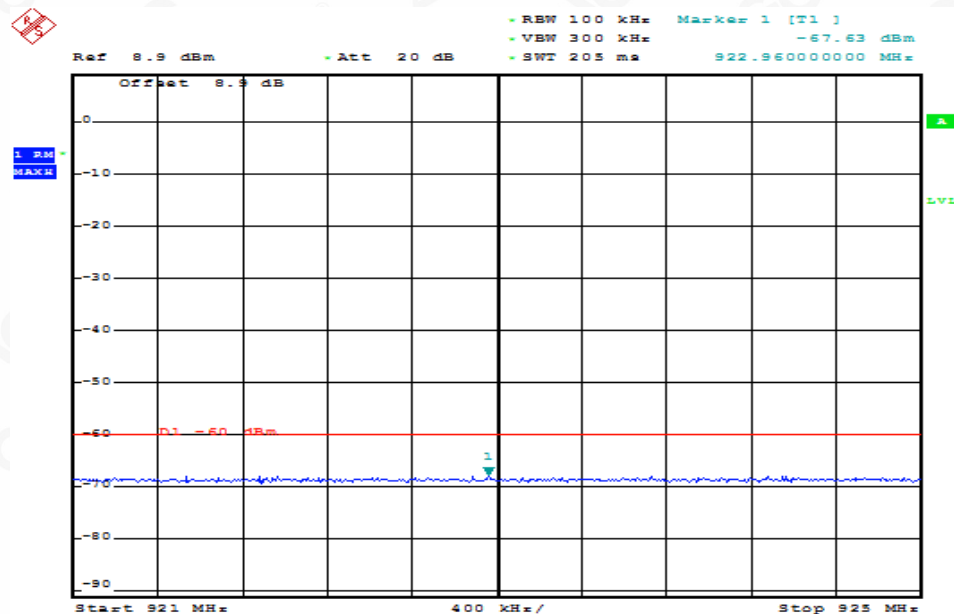
### 880MHZ~915MHZ



AAA

Date: 17.OCT.2019 10:09:27

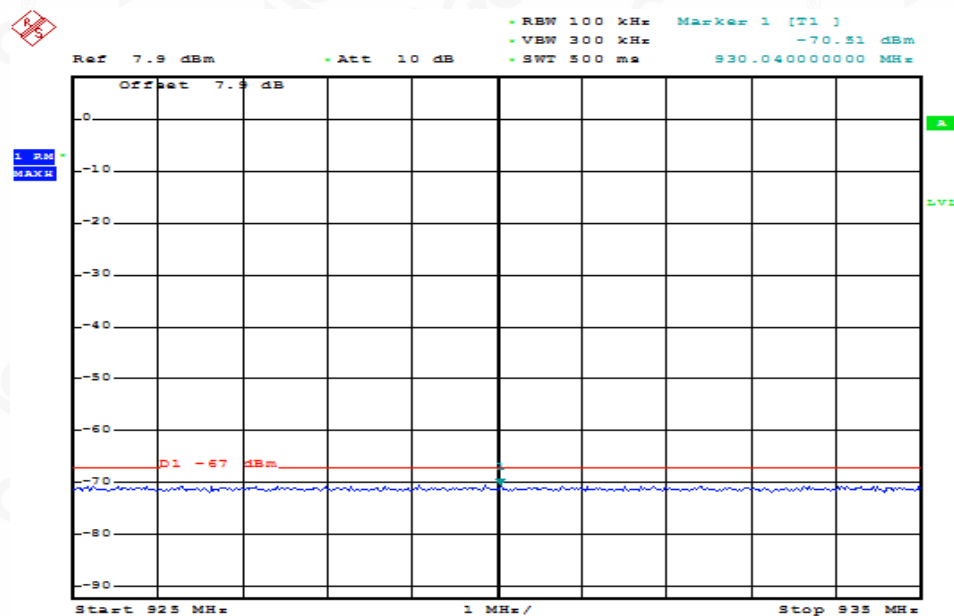
# 921MHZ~925MHZ



AAA

Date: 17.OCT.2019 10:09:53

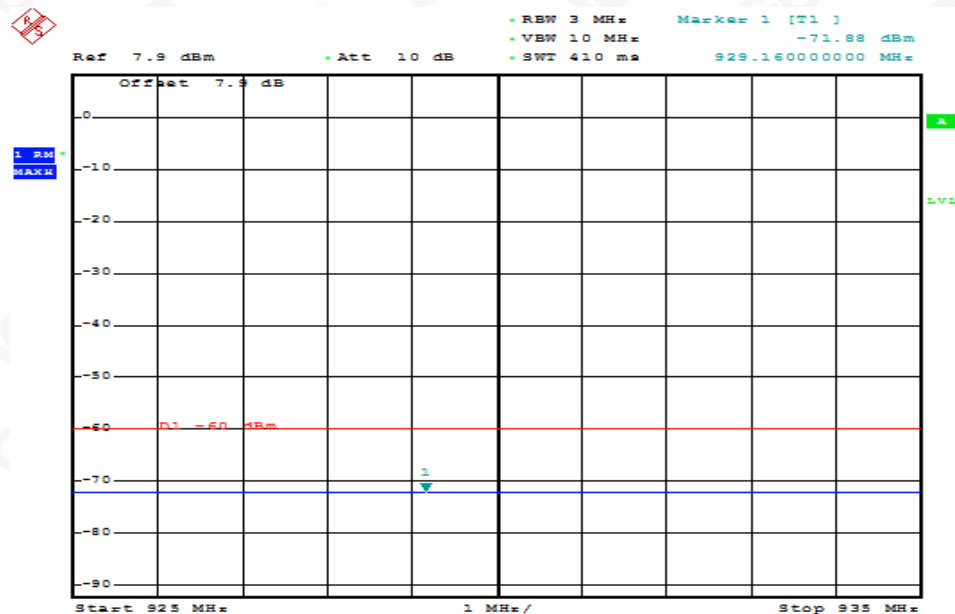
# 925MHZ~935MHZ



AAA

Date: 17.OCT.2019 10:10:13

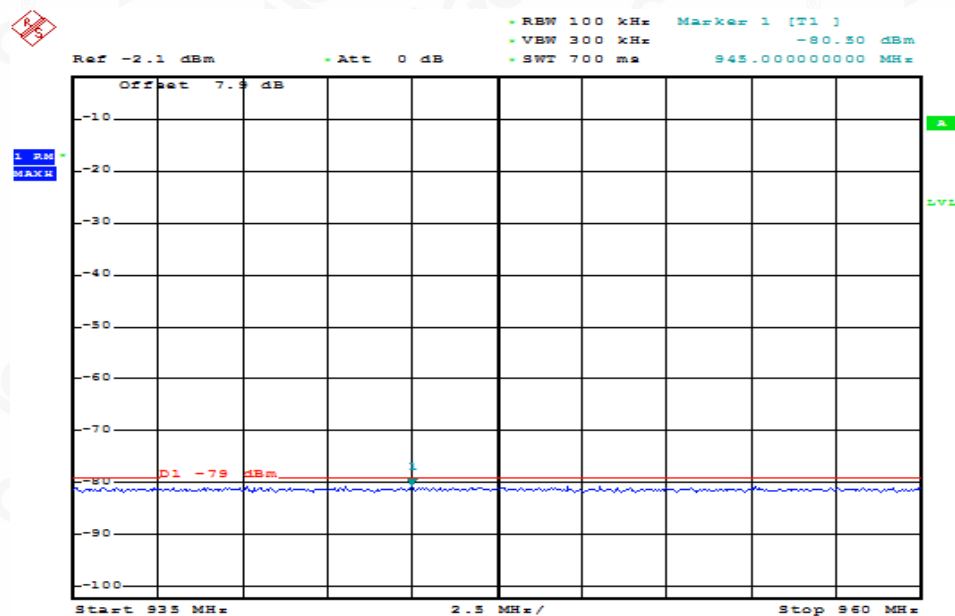
925MHZ~935MHZ



AAA

Date: 17.OCT.2019 10:10:51

935MHZ~960MHZ

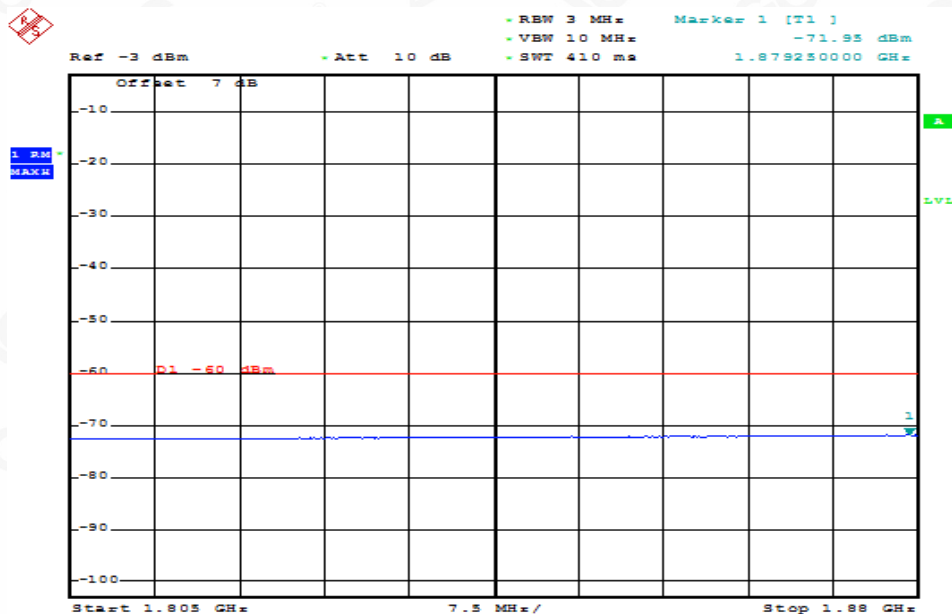


AAA

Date: 17.OCT.2019 10:11:04



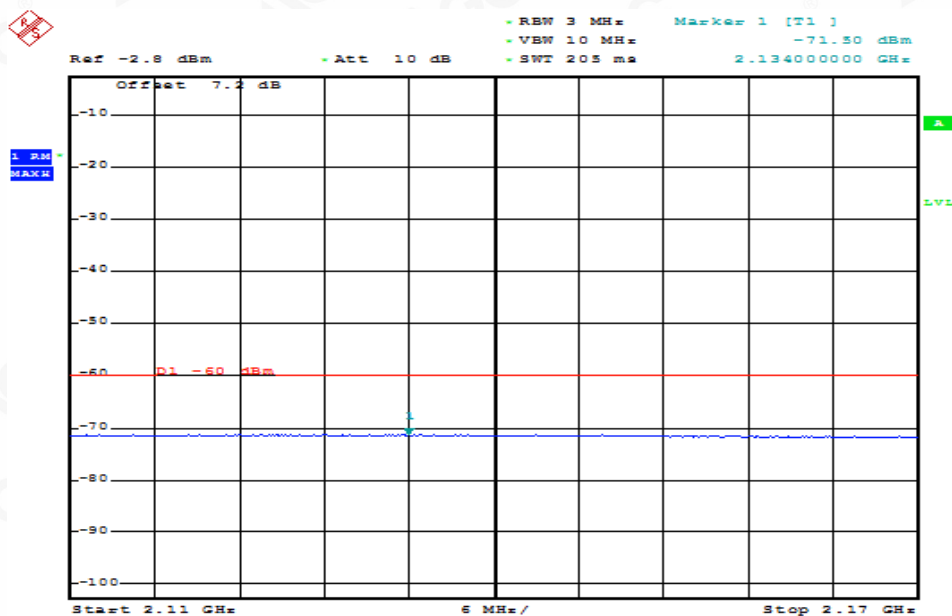
1805MHZ~1880MHZ



AAA

Date: 17.OCT.2019 10:11:42

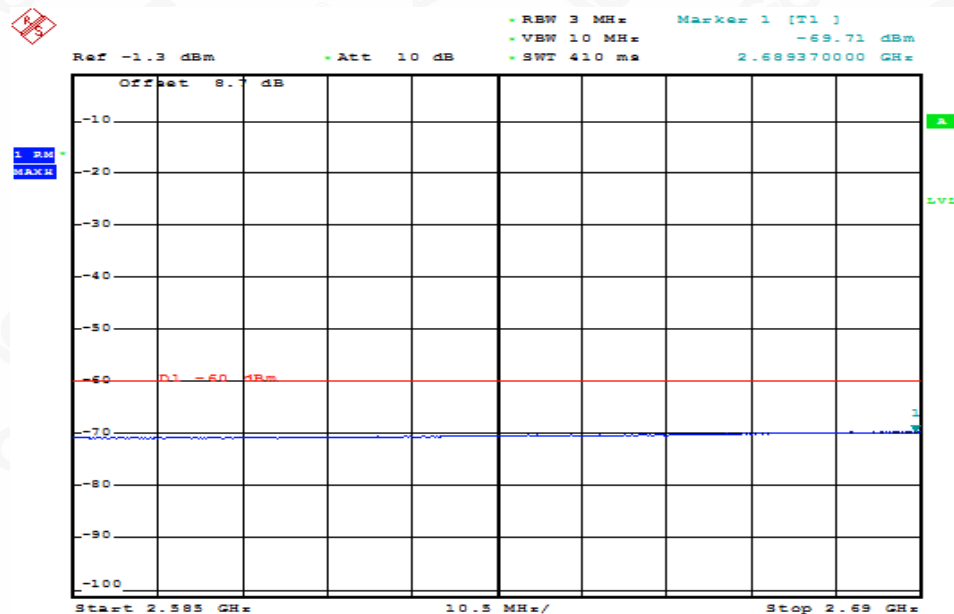
2110MHZ~2170MHZ



AAA

Date: 17.OCT.2019 10:12:08

2585MHZ~2690MHZ

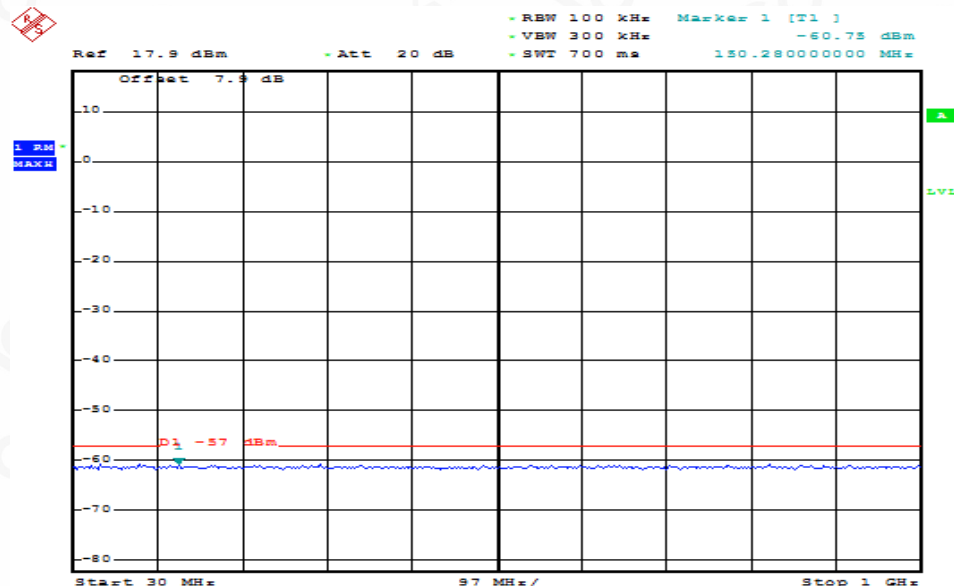


AAA

Date: 17.OCT.2019 10:12:28

Channel MCH

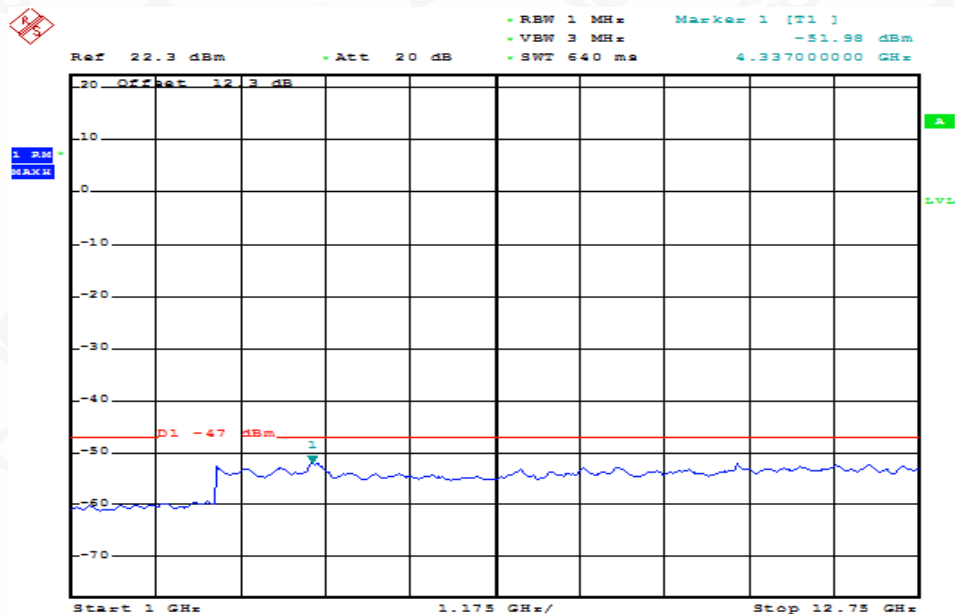
30MHZ~1GHZ



AAA

Date: 17.OCT.2019 10:12:57

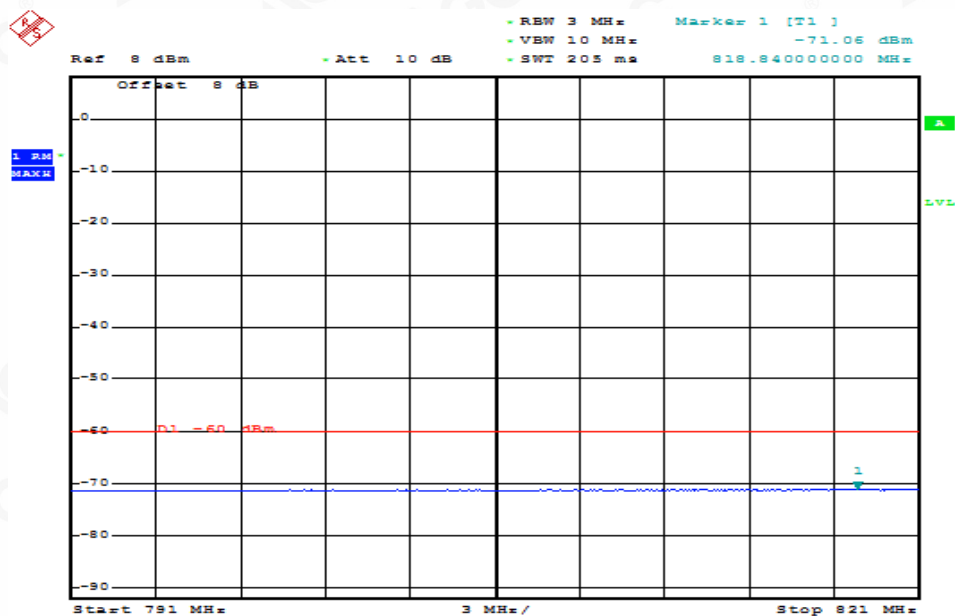
1GHZ~12.75GHZ



AAA

Date: 17.OCT.2019 10:13:17

791MHZ~821MHZ

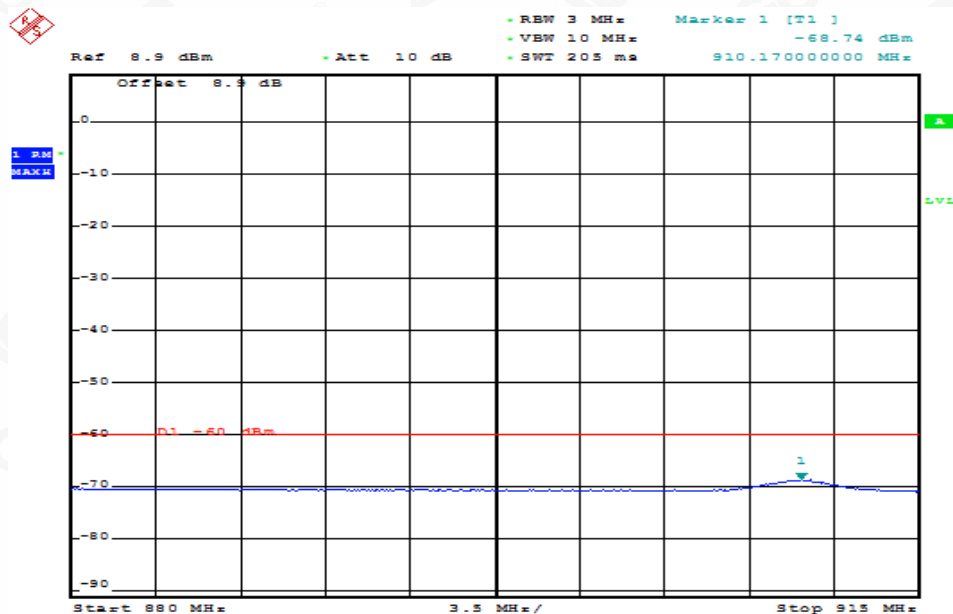


AAA

Date: 17.OCT.2019 10:13:42



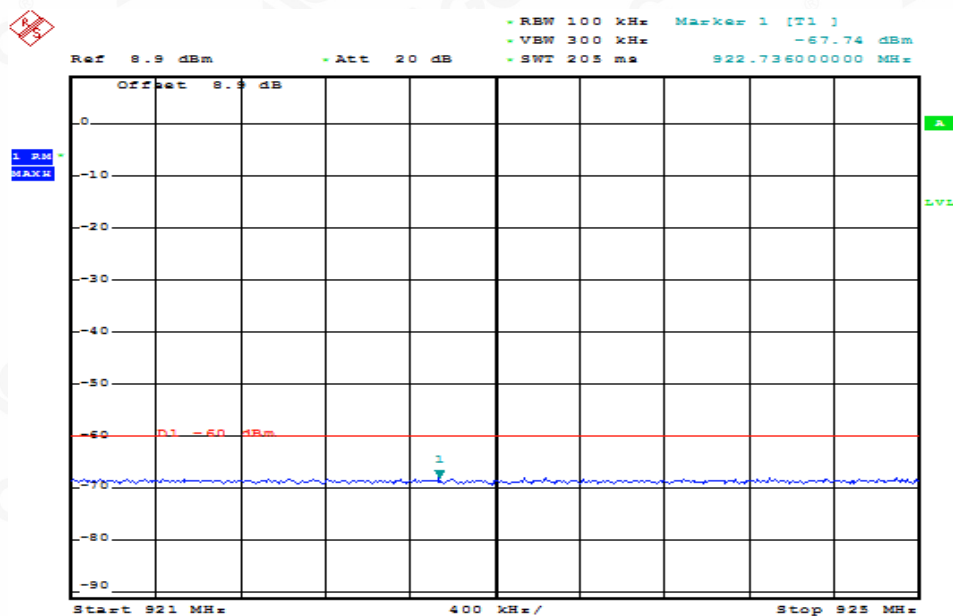
880MHZ~915MHZ



AAA

Date: 17.OCT.2019 10:14:08

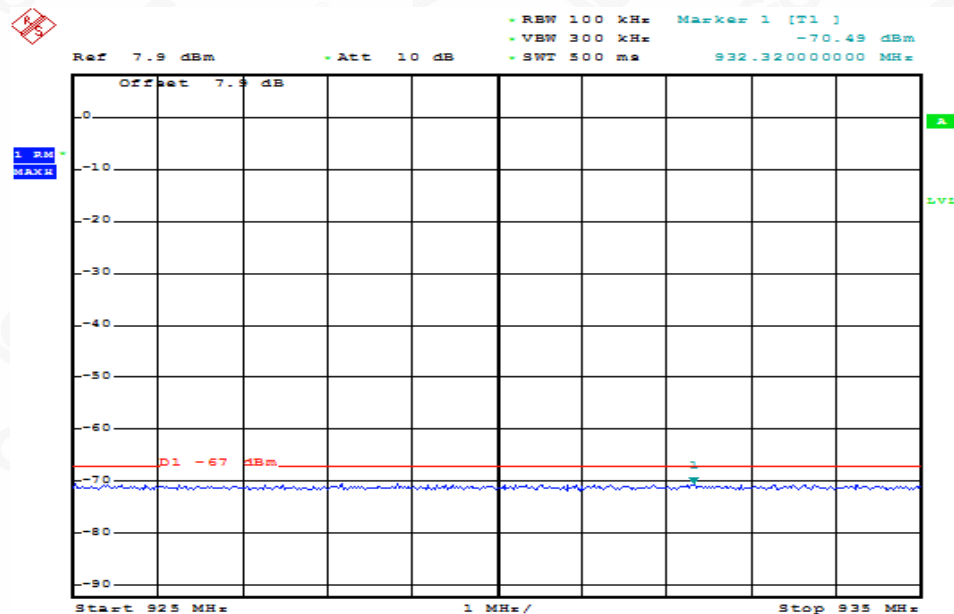
921MHZ~925MHZ



AAA

Date: 17.OCT.2019 10:14:34

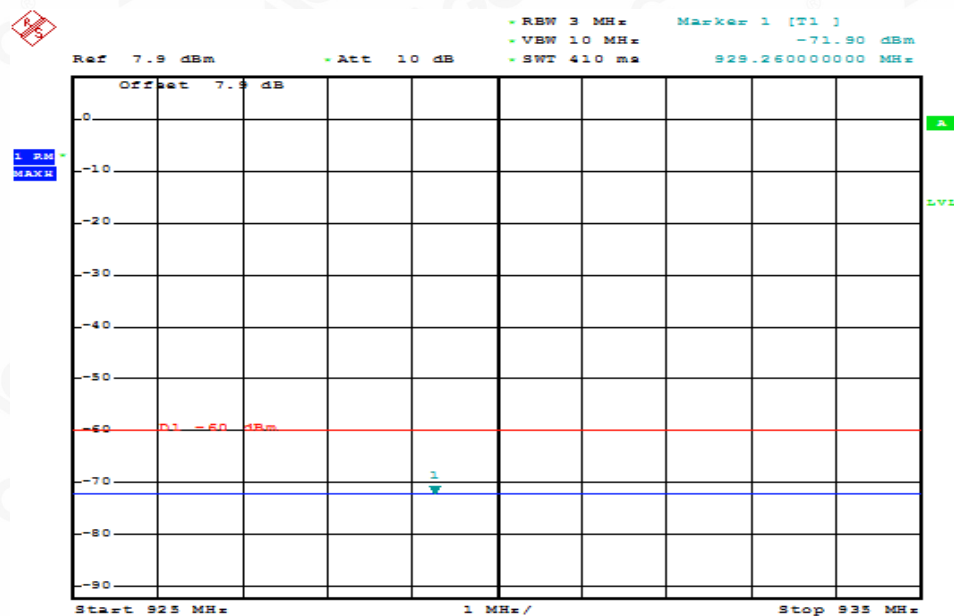
925MHZ~935MHZ



AAA

Date: 17.OCT.2019 10:14:53

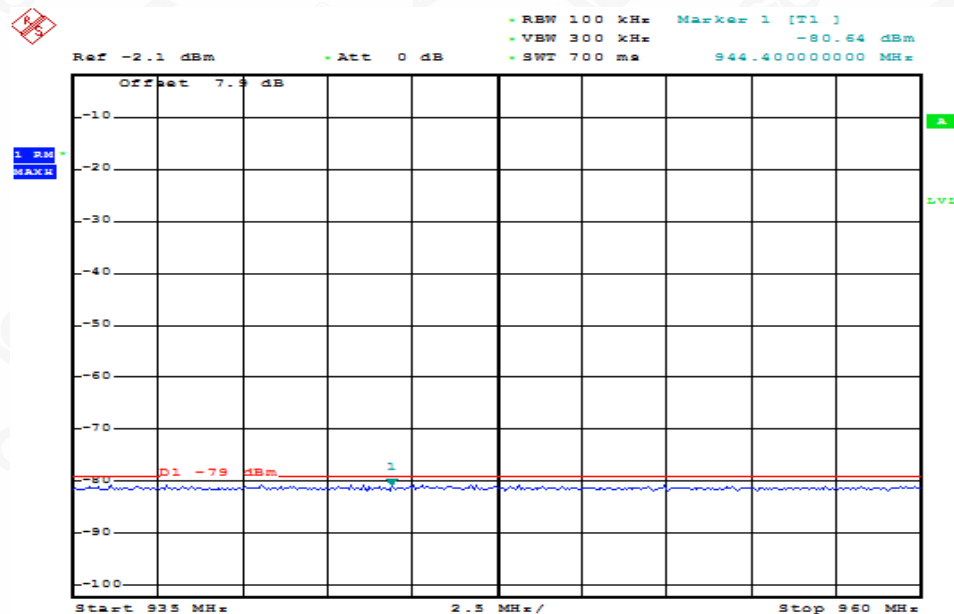
925MHZ~935MHZ



AAA

Date: 17.OCT.2019 10:15:32

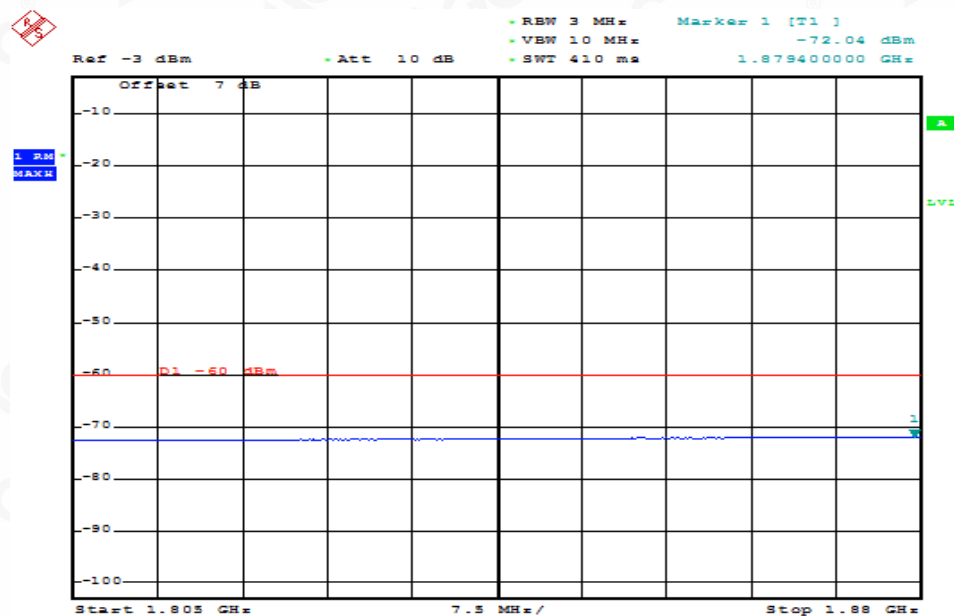
935MHZ~960MHZ



AAA

Date: 17.OCT.2019 10:15:45

1805MHZ~1880MHZ

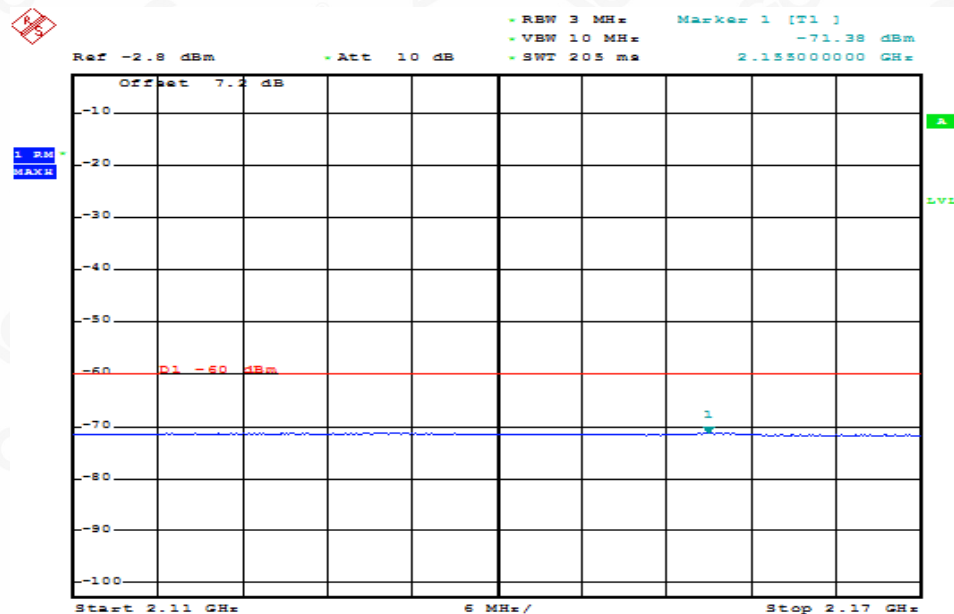


AAA

Date: 17.OCT.2019 10:16:23



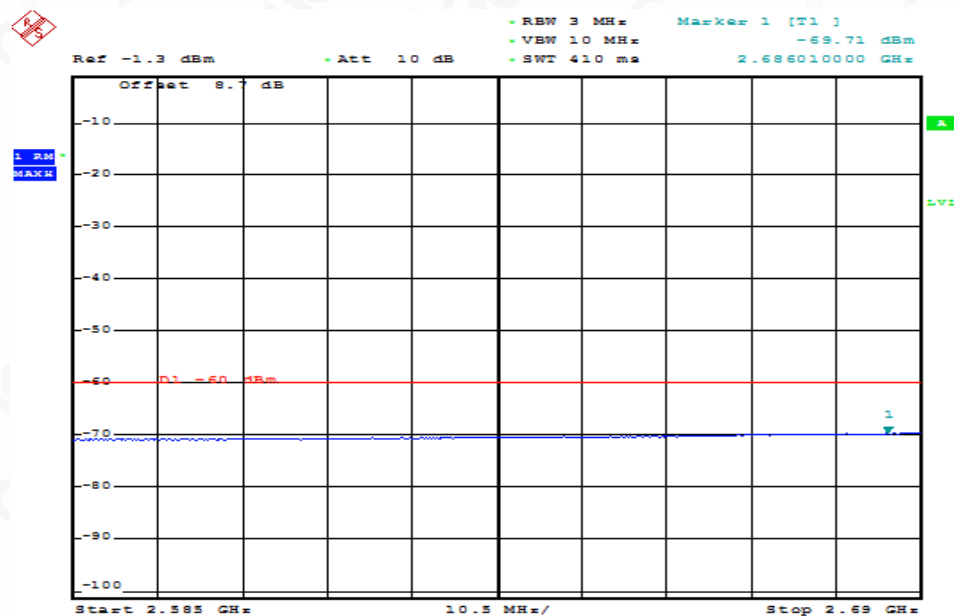
2110MHZ~2170MHZ



AAA

Date: 17.OCT.2019 10:16:49

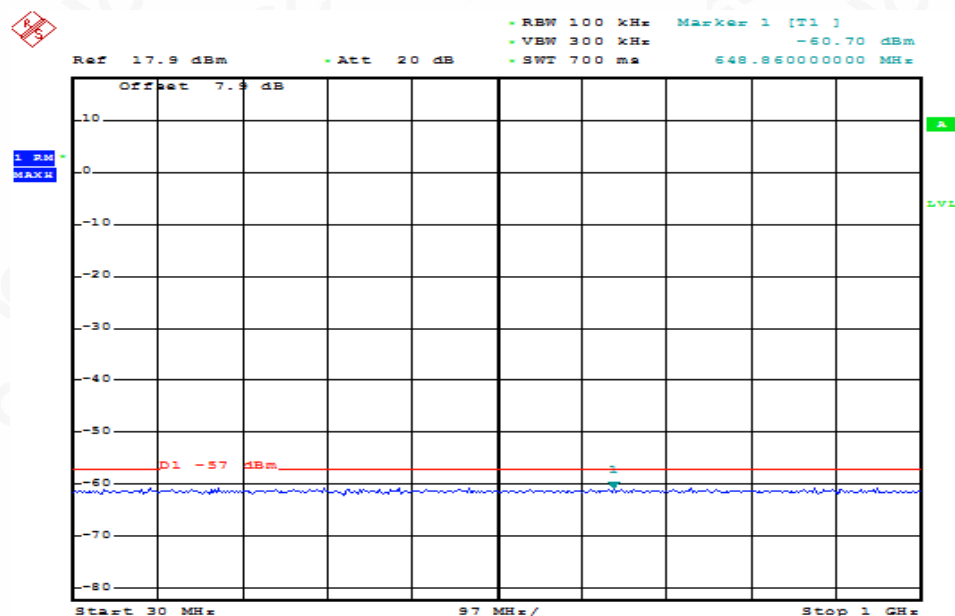
2585MHZ~2690MHZ



AAA

Date: 17.OCT.2019 10:17:09

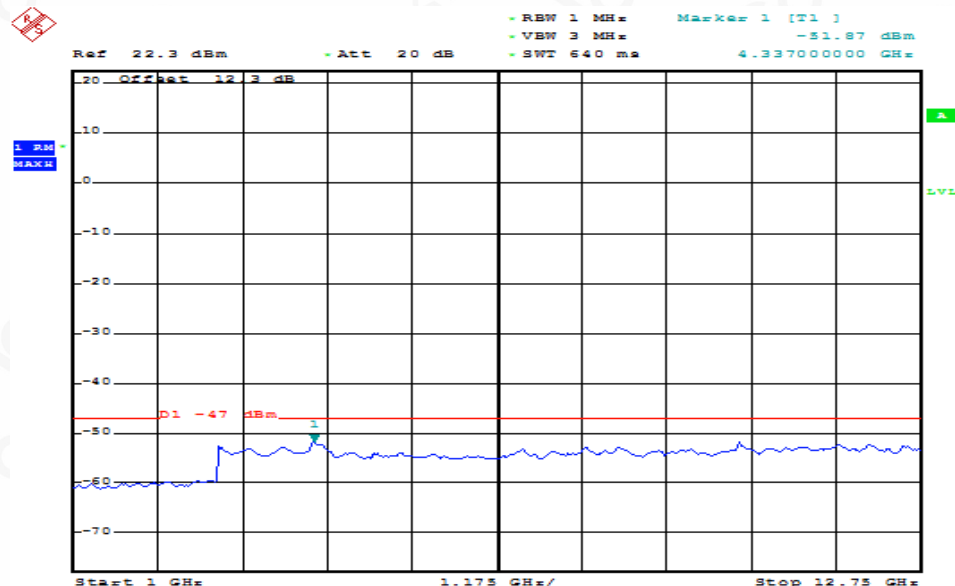
# Channel HCH 30MHz~1GHz



AAA

Date: 17.OCT.2019 10:17:38

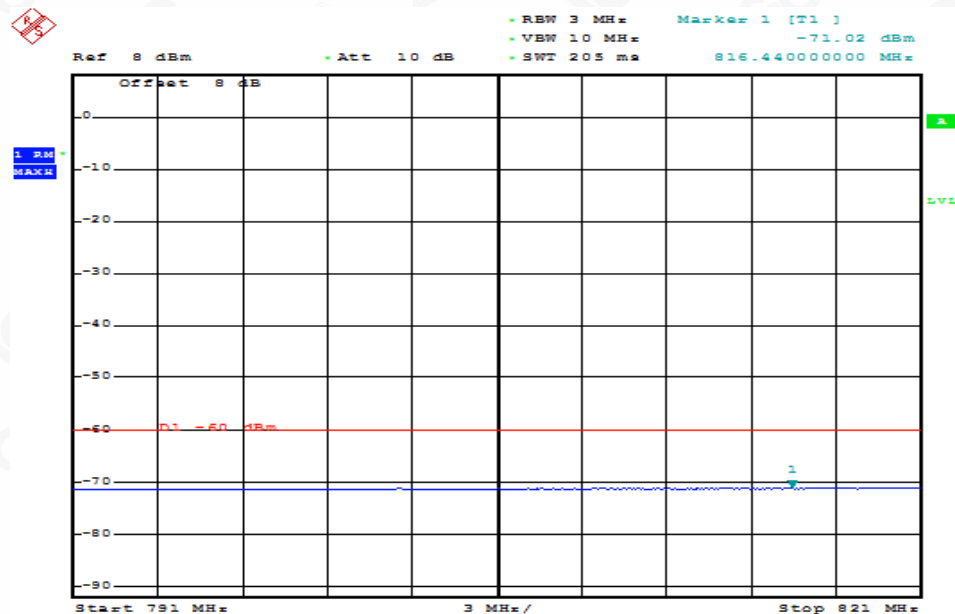
# 1GHz~12.75GHz



AAA

Date: 17.OCT.2019 10:17:58

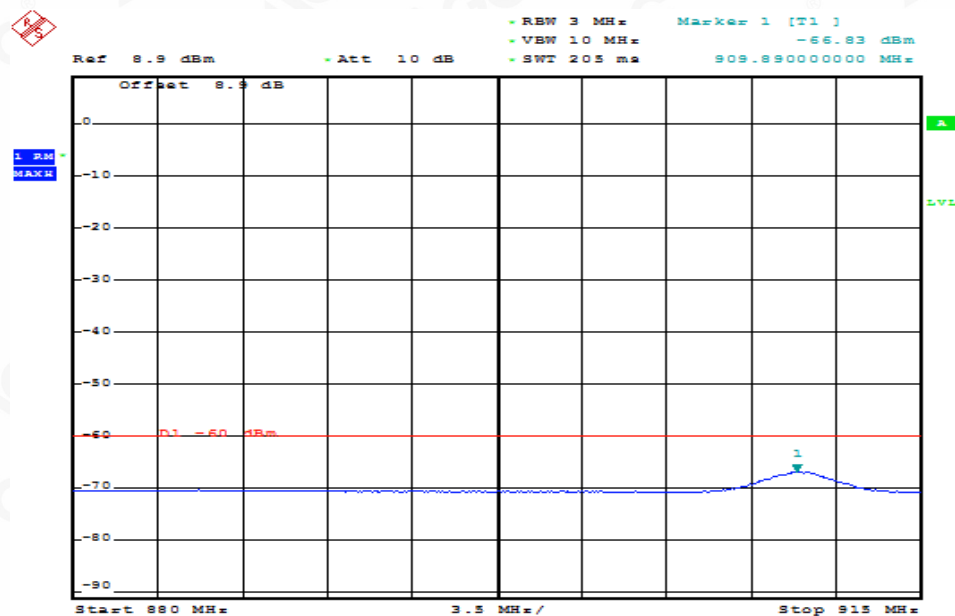
791MHZ~821MHZ



AAA

Date: 17.OCT.2019 10:18:23

880MHZ~915MHZ

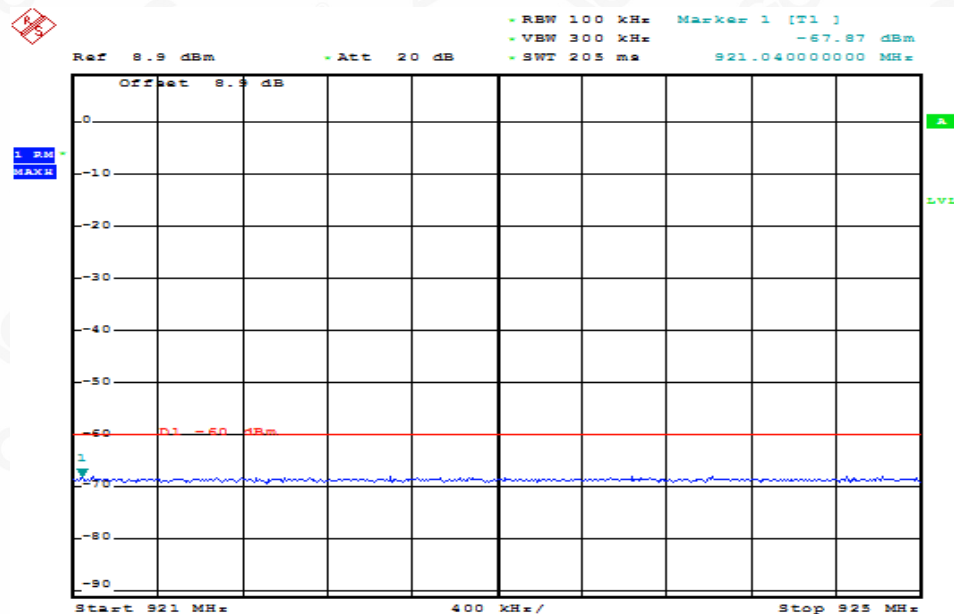


AAA

Date: 17.OCT.2019 10:18:49



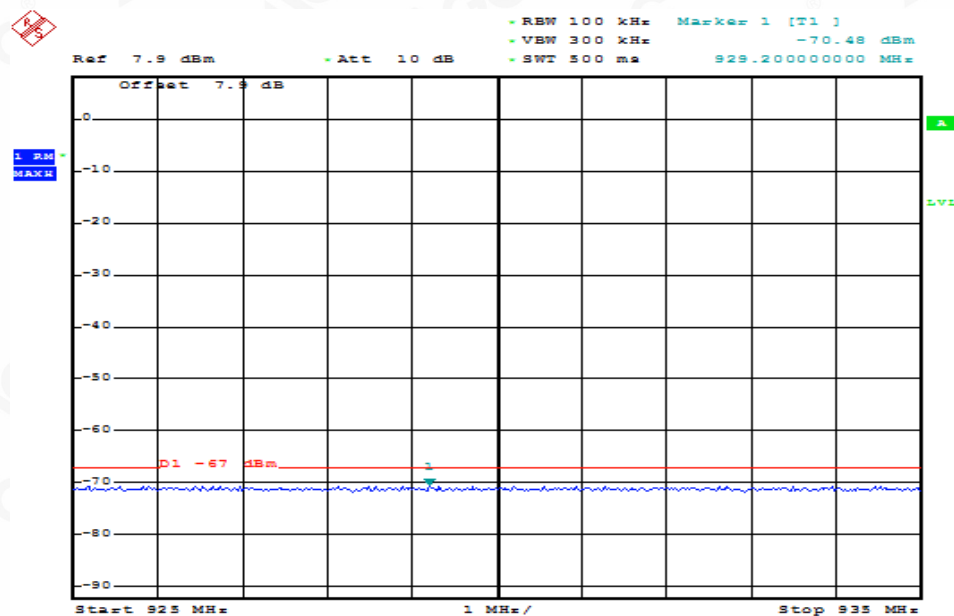
921MHZ~925MHZ



AAA

Date: 17.OCT.2019 10:19:15

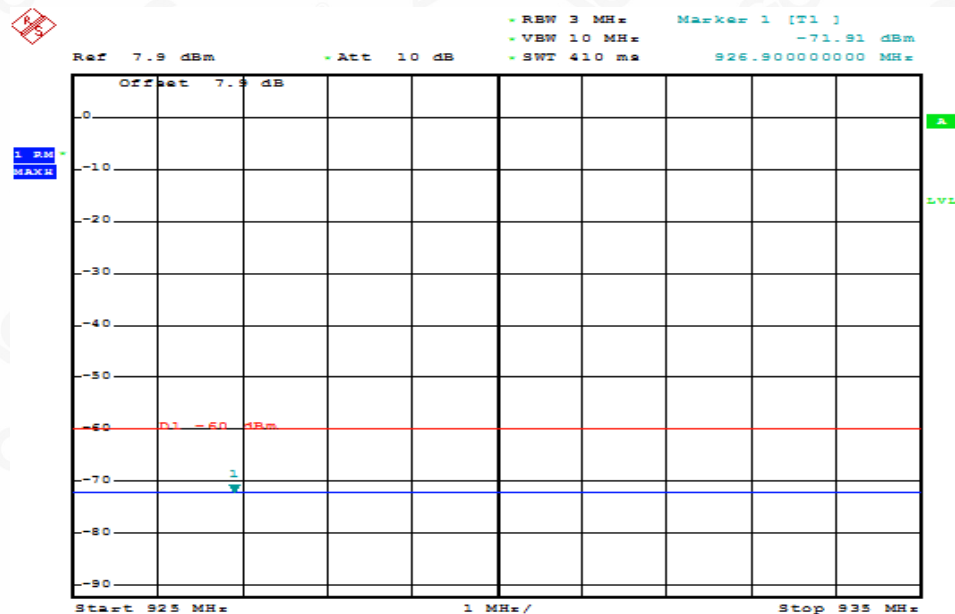
925MHZ~935MHZ



AAA

Date: 17.OCT.2019 10:19:34

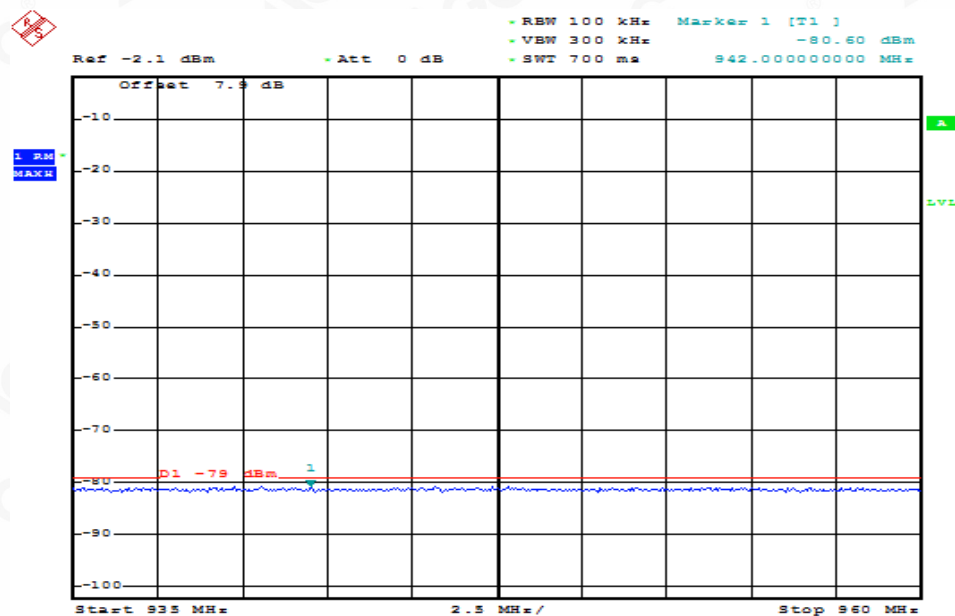
### 925MHZ~935MHZ



AAA

Date: 17.OCT.2019 10:20:13

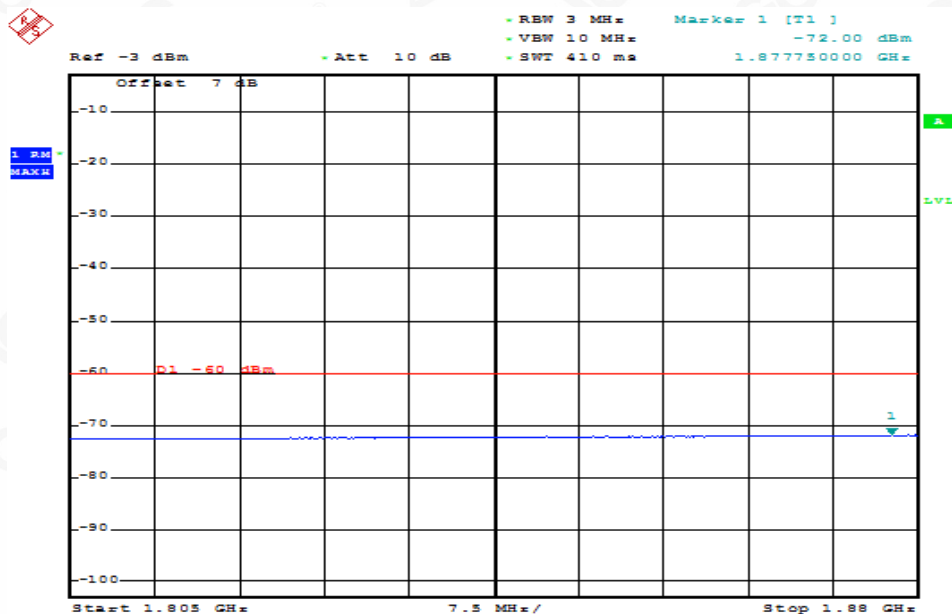
### 935MHZ~960MHZ



AAA

Date: 17.OCT.2019 10:20:26

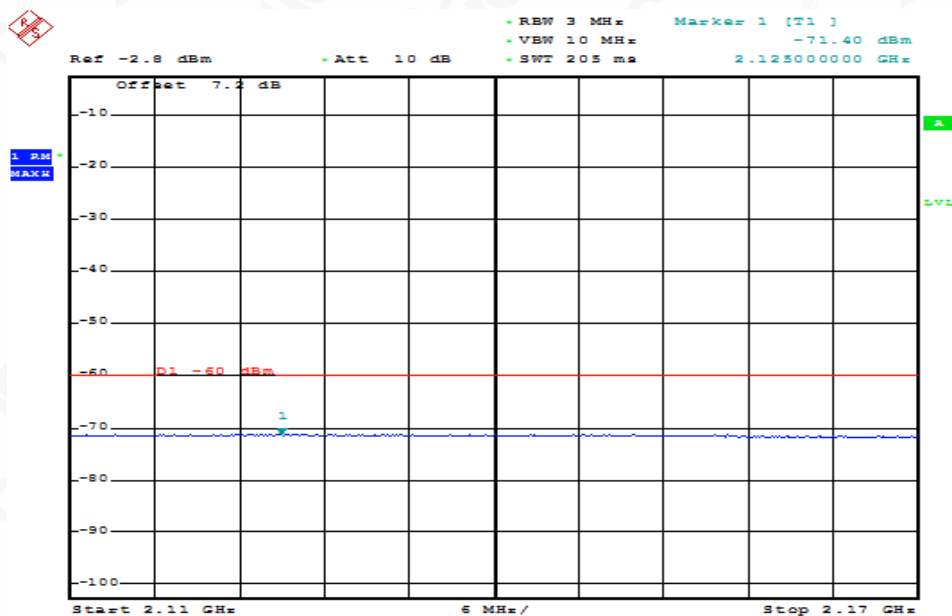
1805MHZ~1880MHZ



AAA

Date: 17.OCT.2019 10:21:04

2110MHZ~2170MHZ

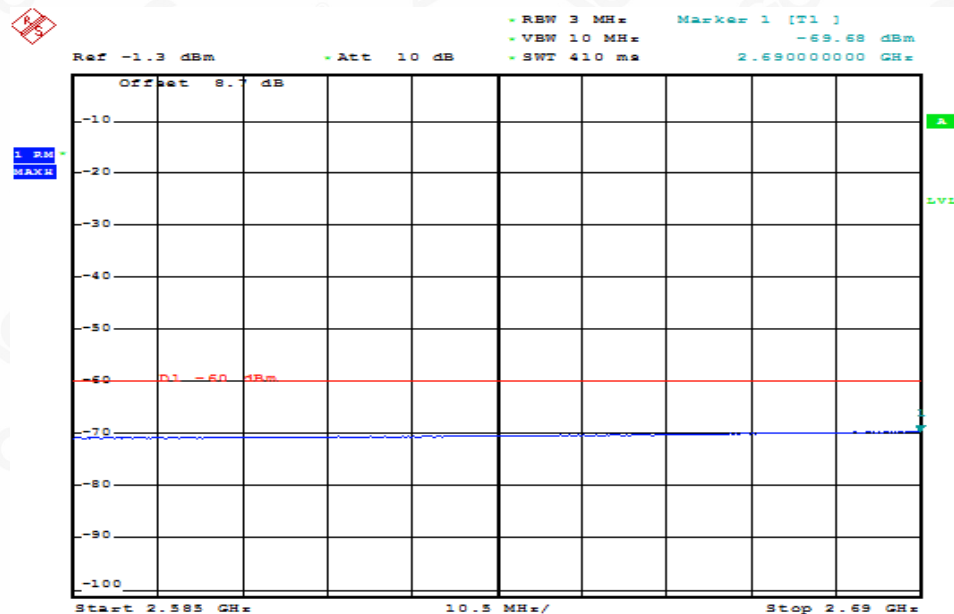


AAA

Date: 17.OCT.2019 10:21:30



2585MHZ~2690MHZ



AAA

Date: 17.OCT.2019 10:21:50



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### Appendix M. Receiver channel selectivity(ACS)

WCDMA Band I			
Parameter	Unit	Case 1	Case 2
loac mean power (modulated)	dBm	-52	-25
Fuw (offset)	MHz	+5 or -5	+5 or -5
UE transmitted mean power	dBm	20	20
BER		0	0
Result		PASS	PASS

WCDMA Band VIII			
Parameter	Unit	Case 1	Case 2
loac mean power	dBm	-52	-25
Fuw (offset)	MHz	+5 or -5	+5 or -5
UE transmitted	dBm	20	20
BER		0	0
Result		Pass	Pass



# Appendix N. Receiver intermodulation characteristics

WCDMA Band I			
Parameter	Level		Unit
low1 (CW)	-46		dBm
low2 mean power (modulated)	-46		dBm
Fuw1 (offset)	10	-10	MHz
Fuw2 (offset)	20	-20	MHz
UE Transmitted mean power	20 dBm	20 dBm	dBm
BER	0	0	
Result	Pass	Pass	

WCDMA Band VIII			
Parameter	Level		Unit
low1 (CW)	-46		dBm
low2 mean power (modulated)	-46		dBm
Fuw1 (offset)	10	-10	MHz
Fuw2 (offset)	20	-20	MHz
UE Transmitted mean power	20 dBm	20 dBm	dBm
BER	0	0	
Result	Pass	Pass	





## Appendix O. Receiver blocking characteristics

### In-band Blocking Test

WCDMA Band I			
Parameter	Unit	Level	
Blocking mean power (modulated)	dBm	-56 (For Fuw offset 10 MHz)	-44 (For Fuw offset 10 MHz)
UE Transmitted mean power	dBm	20 dBm	
Fuw	MHz	$2102.4 \leq f \leq 2177.6$	$2095 \leq f \leq 2185$
BER	%	0	0
Result		Pass	Pass

WCDMA Band VIII			
Parameter	Unit	Level	
Blocking mean power (modulated)	dBm	-56 (For Fuw offset 10 MHz)	-44 (For Fuw offset 10 MHz)
UE Transmitted mean power	dBm	20 dBm	
Fuw	MHz	$917.4 \leq f \leq 967.6$	$910 \leq f \leq 975$
BER	%	0	0
Result		Pass	Pass



### Out-band Blocking Test

WCDMA Band I				
Parameter	Unit	Frequency range 1	Frequency range 2	Frequency range 3
Blocking (cw)	dBm	-44	-30	-15
Fuw	MHz	2050 < f < 2095 2185 < f < 2230	2025 < f ≤ 2050 2230 ≤ f < 2255	1 < f ≤ 2025 2255 ≤ f < 12750
Spurious Response Frequencies	MHz	NO	NO	NO
BER	%	0	0	0
Result		Pass	Pass	Pass

WCDMA Band VIII				
Parameter	Unit	Frequency range 1	Frequency range 2	Frequency range 3
Blocking (cw)	dBm	-44	-30	-15
Fuw	MHz	865 < f < 910 975 < f < 1020	840 < f ≤ 865 1020 ≤ f < 1045	1 < f ≤ 840 1045 ≤ f < 12750
Spurious Response Frequencies	MHz	NO	NO	NO
BER	%	0	0	0
Result		Pass	Pass	Pass



### Narrow Band Blocking Test:

WCDMA Band I		
Parameter	Unit	Level
blocking (GMSK)	dBm	-56
Fuw (offset)		2.8
UE Transmitted mean power	dBm	20 dBm
BER	%	0
Result		Pass

WCDMA Band VIII		
Parameter	Unit	Level
blocking (GMSK)	dBm	-56
Fuw (offset)		2.8
UE Transmitted mean power	dBm	20 dBm
BER	%	0
Result		Pass





# Appendix P. Receiver Characteristics/Spurious Response

WCDMA Band I			
Parameter	Level		Unit
Iblocking(CW)	-46		dBm
Fuw	Spurious response frequencies		MHz
UE Transmitted mean power	20 dBm	20 dBm	dBm
BER	0	0	
Result	Pass	Pass	

WCDMA Band VIII			
Parameter	Level		Unit
Iblocking(CW)	-46		dBm
Fuw	Spurious response frequencies		MHz
UE Transmitted mean power	20 dBm	20 dBm	dBm
BER	0	0	
Result	Pass	Pass	



### Appendix Q. Out-of-synchronization handling of output power

WCDMA Band I			
Parameter	Level		Unit
I or loc	-1		dB
loc	-60		dBm
<u>DPDCH Ec</u> lor	-19,6		dB
Result	Pass	Pass	

WCDMA Band VIII			
Parameter	Level		Unit
I or loc	-1		dB
loc	-60		dBm
<u>DPDCH Ec</u> lor	-19,6		dB
Result	Pass	Pass	

## Appendix R. Receiver Reference Sensitivity level

WCDMA Band I				
	Parameter	Unit	DPCH_Ec<REFSENS>	<REFlor>
		dBm/3.84 MHz	-116,3	-106
TNVN	BER	%	0	0
	Result		Pass	Pass
TL,VL	BER	%	0	0
	Result		Pass	Pass
TL,VH	BER	%	0	0
	Result		Pass	Pass
TH,VL	BER	%	0	0
	Result		Pass	Pass
TH,VH	BER	%	0	0
	Result		Pass	Pass

WCDMA Band VIII				
	Parameter	Unit	DPCH_Ec<REFSENS>	<REFlor>
		dBm/3.84 MHz	-116,3	-106
TNVN	BER	%	0	0
	Result		Pass	Pass
TL,VL	BER	%	0	0
	Result		Pass	Pass
TL,VH	BER	%	0	0
	Result		Pass	Pass
TH,VL	BER	%	0	0
	Result		Pass	Pass
TH,VH	BER	%	0	0
	Result		Pass	Pass





### Appendix S. Radiated spurious emissions - MS in idle mode

Frequency	RBW	Max .Level (dbm)	Test Band=Band I			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
30 MHz ≤f < 1 GHz	100 kHz	-57	-69.78	-70.18	-70.46	Pass
1 GHz ≤f ≤ 12.75 GHz	1 MHz	-47	-65.10	-65.41	-65.75	Pass
791 MHz ≤f ≤ 821 MHz	3.84 MHz	-60	-70.02	-70.45	-70.84	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-79.02	-79.54	-79.96	Pass
925 MHz ≤f ≤ 935 MHz	100 kHz	-67	-78.75	-79.36	-79.91	Pass
935 MHz < f ≤ 960 MHz	100 kHz	-79	-90.89	-91.28	-91.85	Pass
1805MHz ≤f ≤ 1880MHz	100 kHz	-60	-77.74	-78.04	-78.63	Pass
1920MHz ≤f ≤ 1980MHz	3.84 MHz	-60	-72.89	-73.87	-74.55	Pass
2 110 MHz ≤f ≤ 2 170 MHz	3.84 MHz	-60	-73.16	-74.17	-74.91	Pass
2 585 MHz ≤f ≤ 2 690 MHz	3.84 MHz	-60	-70.45	-71.33	-71.99	Pass
Frequency	RBW	Max .Level (dbm)	Test Band=Band VIII			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
30 MHz ≤f < 1 GHz	100 kHz	-57	-71.73	-72.13	-72.41	Pass
1 GHz ≤f ≤ 12.75 GHz	1 MHz	-47	-64.33	-64.64	-64.98	Pass
791 MHz ≤f ≤ 821 MHz	3.84 MHz	-60	-71.02	-71.45	-71.84	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-79.69	-80.21	-80.63	Pass
925 MHz ≤f ≤ 935 MHz	100 kHz	-67	-79.79	-80.40	-80.95	Pass
935 MHz < f ≤ 960 MHz	100 kHz	-79	-91.48	-91.87	-92.44	Pass
1805MHz ≤f ≤ 1880MHz	100 kHz	-60	-76.92	-77.22	-77.81	Pass
1920MHz ≤f ≤ 1980MHz	3.84 MHz	-60	-73.45	-74.43	-75.11	Pass
2 110 MHz ≤f ≤ 2 170 MHz	3.84 MHz	-60	-72.66	-73.67	-74.41	Pass
2 585 MHz ≤f ≤ 2 690 MHz	3.84 MHz	-60	-72.49	-73.37	-74.03	Pass



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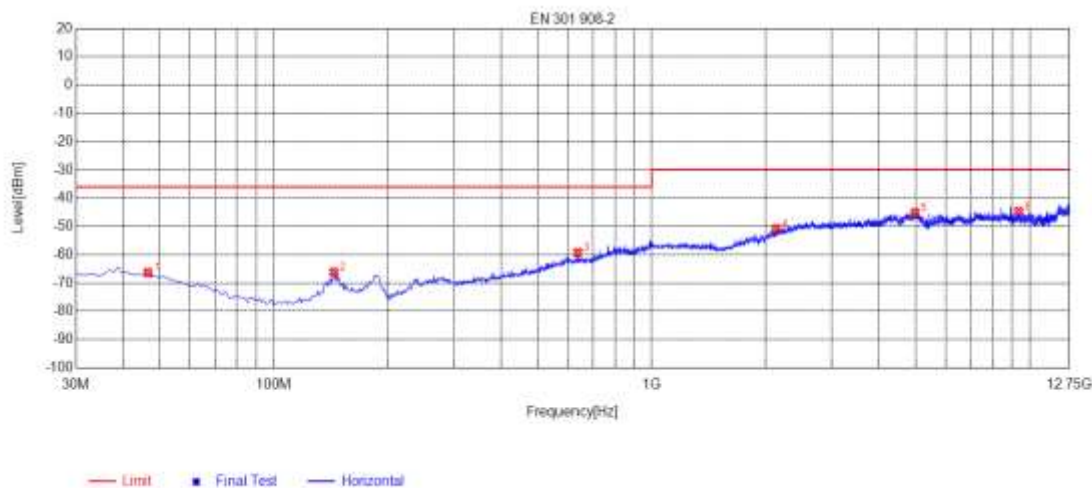
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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## Appendix T. Radiated spurious emissions test result

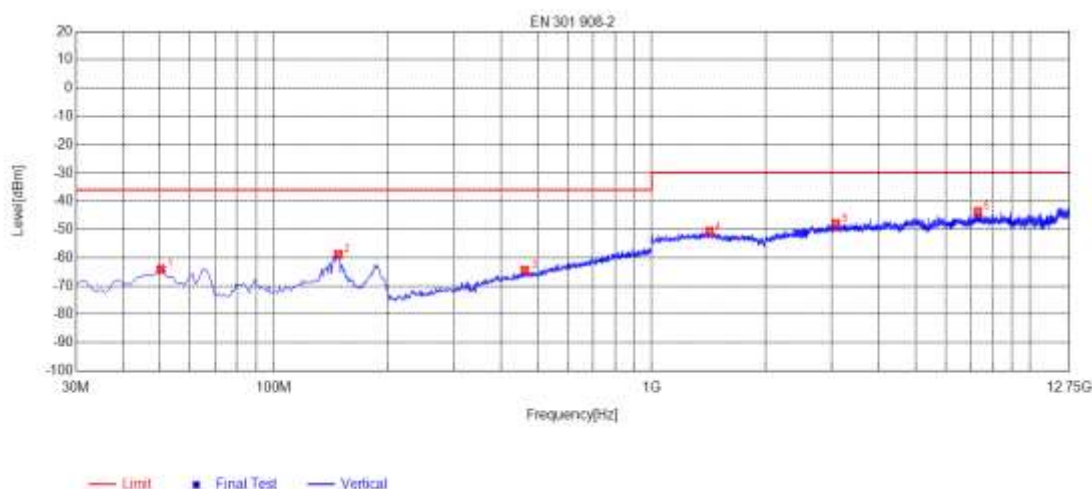
### RADIATED SPURIOUS EMISSIONS UMTS BAND I- HORIZONTAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	46.4900	-100.47	-66.34	-36.00	30.34	34.13	150	Horizontal
2	144.4600	-95.54	-66.18	-36.00	30.18	29.36	225	Horizontal
3	638.1900	-99.22	-59.27	-36.00	23.27	39.95	291	Horizontal
4	2135.2771	-52.42	-50.83	-30.00	20.83	1.59	158	Horizontal
5	4974.6449	-54.89	-45.16	-30.00	15.16	9.73	325	Horizontal
6	9365.3231	-59.22	-44.76	-30.00	14.76	14.46	360	Horizontal



## RADIATED SPURIOUS EMISSIONS UMTS BAND I-VERTICAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	50.3700	-93.96	-64.09	-36.00	28.09	29.87	334	Vertical
2	148.3400	-92.61	-58.80	-36.00	22.80	33.81	124	Vertical
3	461.6500	-100.27	-64.42	-36.00	28.42	35.85	16	Vertical
4	1420.7341	-52.30	-50.67	-30.00	20.67	1.63	334	Vertical
5	3070.7642	-53.30	-47.97	-30.00	17.97	5.33	274	Vertical
6	7294.5589	-56.87	-43.71	-30.00	13.71	13.16	7	Vertical



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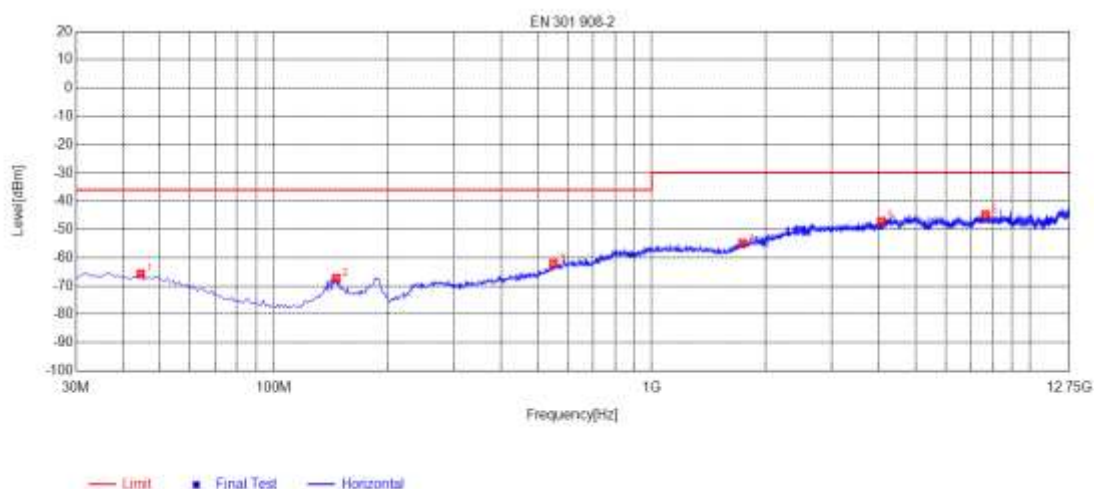
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

## RADIATED SPURIOUS EMISSIONS UMTS BAND VIII- HORIZONTAL

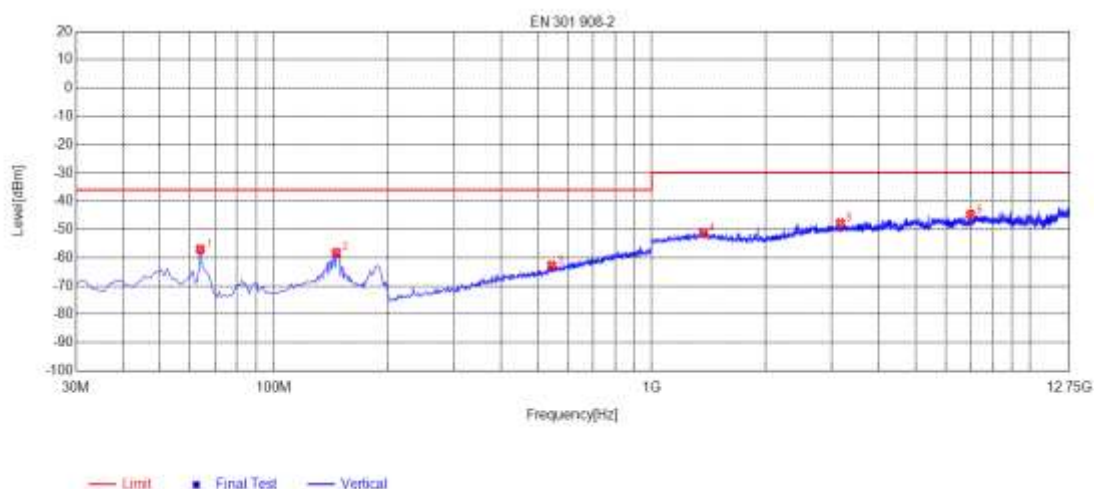


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	44.5500	-100.12	-65.73	-36.00	29.73	34.39	111	Horizontal
2	146.4000	-96.64	-67.28	-36.00	31.28	29.36	228	Horizontal
3	549.9200	-100.14	-62.05	-36.00	26.05	38.09	339	Horizontal
4	1738.0476	-53.49	-54.92	-30.00	24.92	-1.43	178	Horizontal
5	4050.9102	-55.04	-47.11	-30.00	17.11	7.93	78	Horizontal
6	7644.7790	-58.26	-44.83	-30.00	14.83	13.43	270	Horizontal





## RADIATED SPURIOUS EMISSIONS UMTS BAND VIII-VERTICAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	63.9500	-86.98	-56.98	-36.00	20.98	30.00	191	Vertical
2	146.4000	-92.15	-58.20	-36.00	22.20	33.95	82	Vertical
3	544.1000	-100.17	-62.76	-36.00	26.76	37.41	98	Vertical
4	1369.0238	-52.42	-51.13	-30.00	21.13	1.29	31	Vertical
5	3157.7315	-53.27	-47.79	-30.00	17.79	5.48	107	Vertical
6	6977.2454	-56.88	-44.74	-30.00	14.74	12.14	274	Vertical



## APPENDIX U: PHOTOGRAPHS OF TEST SETUP

### RADIATED SPURIOUS EMISSION TEST SETUP



RADIATED SPURIOUS EMISSION-ABOVE 1G TEST SETUP



----END OF REPORT----