

RF Test Report

Report No.: AGC00552200704EE03

PRODUCT DESIGNATION : Smart Phone
BRAND NAME : CUBOT
MODEL NAME : NOTE 20 PRO
APPLICANT : Shenzhen Huafurui Technology Co., Ltd.
DATE OF ISSUE : Jul 24, 2020
STANDARD(S) : EN 301 511 V12.5.1: 2017-03
REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 24, 2020	Valid	Initial release

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TABLE OF CONTENTS

1. TEST REPORT CERTIFICATION.....	5
2. GENERAL INFORMATION	6
2.1. DESCRIPTION OF EUT.....	6
2.2. TYPE OF MOBILE STATION AND ADDITIONAL INFORMATION	7
3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION.....	8
4. MEASUREMENT UNCERTAINTY.....	10
5. TEST RESULT.....	11
5.1. APPLIED REFERENCE DOCUMENTS	11
5.2. TEST ENVIRONMENT/CONDITIONS	11
5.3. ITEMS USED IN THE TEST RESULTS LIST	11
5.4. TEST RESULTS LIST	13
Appendix A.Transmitter - Frequency error and phase error	21
Appendix B. Frequency error under multipath and interference conditions	23
Appendix C.Frequency error and phase error in GPRS multislots configuration	24
Appendix D.Transmitter output power and burst timing	26
Appendix E.Transmitter – Output RF spectrum	36
Appendix F.Transmitter output power in GPRS multislots configuration	46
Appendix G.Output RF spectrum in GPRS multislots configuration.....	56
Appendix H.Conducted spurious emissions - MS allocated a channel.....	66
Appendix I. Conducted spurious emissions- MS in idle mode	82
Appendix J. Intermodulation rejection - speech channels	90
Appendix K. Receiver Blocking and spurious response – speech channel	91
Appendix L. Frequency error and Modulation accuracy in EGPRS Configuration	92
Appendix M. Frequency error under multipath and interference conditions in EGPRS Configuration.....	93
Appendix N.EGPRS Transmitter output power	94
Appendix O.Output RF spectrum in EGPRS configuration	104
Appendix P. Blocking and spurious response in EGPRS configuration.....	114
Appendix Q .AM suppression - speech channels	115
Appendix R. Intermodulation rejection - EGPRS.....	116
Adjacent S. Adjacent channel rejection – EGPRS.....	117
Appendix T. Adjacent channel rejection - speech channels (TCH/FS).....	118
Appendix U. Reference sensitivity - TCH/FS	119
Appendix V. Reference sensitivity - FACCH/F.....	120

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AppendixW. Minimum Input level for Reference Performance - GPRS	121
Appendix X. Minimum Input level for Reference Performance – EGPRS.....	122
Appendix Y. Radiated spurious emissions - MS in idle mode	123
APPENDIX Z. RADIATED SPURIOUS EMISSIONS TEST RESULT	124
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	128

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1. TEST REPORT CERTIFICATION

Applicant	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen,P.R. China
Manufacturer	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen,P.R. China
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen,P.R. China
Product Designation	Smart Phone
Brand Name	CUBOT
Test Model	NOTE 20 PRO
Date of test	Jul. 13, 2020~Jul. 24, 2020
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-EC-2.5G2/RF

We, Attestation of Global Compliance (Shenzhen) Co., Ltd., for compliance with the requirements set forth in the European Standard ETSI EN 301 511 V12.5.1. 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.

The test results of this report relate only to the tested sample identified in this report.

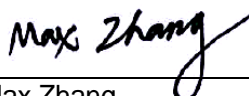
Prepared By



Calvin Liu
(Project Engineer)

Jul. 24, 2020

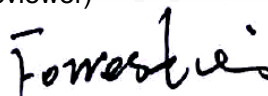
Reviewed By



Max Zhang
(Reviewer)

Jul. 24, 2020

Approved By



Forrest Lei
(Authorized Officer)

Jul. 24, 2020

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2. GENERAL INFORMATION

2.1. DESCRIPTION OF EUT

2.1.1. FINAL EQUIPMENT BUILD STATUS

Details of technical specification refer to the description in follows:

Product Name	Smart Phone
Brand Name	CUBOT
Test Model	NOTE 20 PRO
Product Type	GSM
Hardware Version	LV966_MB_V1.0
Software Version	CUBOT_NOTE 20 PRO_A013C_V02_20200729
Frequency Bands	<input checked="" type="checkbox"/> GSM 900 <input checked="" type="checkbox"/> DCS 1800 (EU Frequency) <input checked="" type="checkbox"/> GSM 850 <input checked="" type="checkbox"/> PCS1900 (none EU Frequency)
Modulation Mode	GMSK, 8PSK
Antenna Type	PIFA Antenna
Antenna Gain	GSM900: 1.25dBi, DCS1800: 1.32dBi
Power Class	GSM900: 4, DCS1800: 1
GSM Release Version	N/A
GPRS Class	Class 12
SIM Card Description	There are dual-SIM cards for GSM/WCDMA/LTE.

2.1.2. PHOTOGRAPHS OF THE EUT

Please see 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 Huafurui Technology Co., Ltd.
Test Model	NOTE 20 PRO
Product Type	GSM
Frequency Bands	GSM 900: 880 -915 MHz (TX); 925 - 960 MHz (RX) DCS1800: 1710 -1785 MHz (TX); 1805-1880 MHz (RX)

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2.2. TYPE OF MOBILE STATION AND ADDITIONAL INFORMATION

Table A.2: Type of Mobile Station (Re. ETSI EN 301 511 Annex A)

Item	Type of Mobile Station	Support	Mnemonic
1	HSCSD Multislot MS	NO	Type_HSCSD_Multislot
2	R-GSM MS	NO	Type_R-GSM
3	Support of GPRS Multislot class on the uplink	YES	Type_GPRS_Multislot_uplink
4	EGPRS	YES	Type_EGPRS
5	EGPRS capable of 8PSK in Uplink, of all Multislot classes	YES	Type_EGPRS_8PSK_uplink
6	ER-GSM MS	NO	Type-GSM
7	DLMC MS	NO	Type DLMC

Type A.3: Additional information (Re. ETSI EN 301 511 Annex A)

Item	Additional Information	Support	Mnemonic
1	Telephony	YES	TSPC_Serv_TS11
2	Permanent Antenna Connector	YES	TSPC_AddInfo_PermAntenna

Note: Telephony means make a phone call.

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3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

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

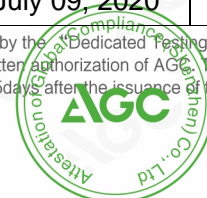
Note: Blocking and spurious response test within the scope of TAF approval.

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. 25, 2020	Feb. 24, 2021
2	CMU200	R&S	120237	July 09, 2020	July 08, 2021
3	Wireless communication test set 8960	Agilent	GB46200384	Oct. 08, 2019	Oct. 07, 2020
4	Power Splitter 11636A	Agilent	34	Sep.18, 2019	Sep.17, 2020
5	Attenuator	JFW	50FHC-006-50	June 10, 2020	June 09, 2021
6	Vector Signal Generator SMU200A	R&S	104332	Sep.18, 2019	Sep.17, 2020
7	VECTOR ANALYZER E4440A	Agilent	MY44303916	Feb. 23, 2020	Feb. 22, 2022
8	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep.18, 2019	Sep.17, 2020
9	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep.18, 2019	Sep.17, 2020
10	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Oct. 08, 2019	Oct. 07, 2020
11	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
12	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Aug.16, 2019	Aug.15, 2020
13	DC Power Source	N/A	GBD-60V30A	Feb. 25, 2020	Feb. 24, 2021
14	EMI Test Receiver ESCI	R&S	10096	May 15, 2020	May 14, 2022
15	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	May 17, 2019	May 16, 2021
16	Trilog Broadband Antenna	SCHWARZBEC K	VULB9168-494	Jan, 09, 2019	Jan. 08, 2021
17	LOOP ANTENNA SAS-562B	A.H	/	Feb. 27, 2020	Feb. 26, 2021
18	Artificial Mains Network ENV4200	R&S	101116	July 09, 2020	July 08, 2021
19	Artificial Mains Network	R&S	101242	July 09, 2020	July 08, 2021

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No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
	ENV216				
20	Filter Bank Notch 1(880-915MHz)	MICRO-TRONI CS	010	Feb. 25, 2020	Feb. 24, 2021
21	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONI CS	009	Feb. 25, 2020	Feb. 24, 2021
22	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONI CS	008	Feb. 25, 2020	Feb. 24, 2021

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4. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO.

- Uncertainty of Radio Frequency, $U_c = \pm 1 \times 10^{-5}$
- Uncertainty of total RF power, conducted, $U_c = \pm 1.5\text{dB}$
- Uncertainty of RF power density, conducted, $U_c = \pm 3\text{dB}$
- Uncertainty of spurious emissions, conducted, $U_c = \pm 3\text{dB}$
- Uncertainty of spurious emissions, radiated, $U_c = \pm 6\text{dB}$
- Uncertainty of Temperature: $\pm 1^\circ\text{C}$
- Uncertainty of Humidity: $\pm 5\%$
- Uncertainty of DC and low frequency voltages: $\pm 3\%$

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5. TEST RESULT

5.1. APPLIED REFERENCE DOCUMENTS

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN 301 511	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Specific reference documents for testing:

No.	Identity	Document Title
2	ETSI TS 151 010-1	3 rd Generation Partnership Project; Technical Specification Group GSM/EDGE Radio Access Network Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification

5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	15 ... 35 °C
Relative Humidity	30 ... 75 %
Air Pressure	980 ... 1020 kPa
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)	DC5.0V,2000mA
Extreme Temperature	Low Temperature (TL) = -10°C High Temperature (TH) = +40°C
Extreme Voltage of the EUT	Low Voltage = DC 3.27V 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 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

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Verdict	Description
N/A	Test case not applicable for the EUT, see the column "Note" for detailed

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5.4. TEST RESULTS LIST

Table A.1: The EN Requirements Table (EN-RT) (Re. ETSI EN 301 511 Annex A) for SIM Card 1

Test Case (ETSI TS 151010-1)	Test Case (EN 301 511)	Parameter	GSM 900		GSM 1800		Note
			Sample	Result	Sample	Result	
12.1.1	4.2.12	Conducted spurious emissions - MS allocated a channel					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
12.1.2	4.2.13	Conducted spurious emissions - MS in idle mode					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
12.2.1	4.2.16	Radiated spurious emissions - MS allocated a channel					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
12.2.2	4.2.17	Radiated spurious emissions - MS in idle mode					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.1	4.2.1	Transmitter - Frequency error and phase error					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
		Vibration X-axis	A01	PASS	A01	PASS	
		Vibration Y-axis	A01	PASS	A01	PASS	
Vibration Z-axis	A01	PASS	A01	PASS			
13.2	4.2.2	Transmitter - Frequency error under multipath and interference conditions					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	

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13.3	4.2.5	Transmitter output power and burst timing				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT / HV	A01	PASS	A01	PASS
13.4	4.2.6	Transmitter - Output RF spectrum				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT / HV	A01	PASS	A01	PASS
13.16.1	4.2.4	Frequency error and phase error in GPRS multislot configuration				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT / HV	A01	PASS	A01	PASS
		Vibration X-axis	A01	PASS	A01	PASS
		Vibration Y-axis	A01	PASS	A01	PASS
13.16.2	4.2.10	Transmitter output power in GPRS multislot configuration				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT/HV	A01	PASS	A01	PASS
13.16.3	4.2.11	Output RF spectrum in GPRS multislot configuration				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT/HV	A01	PASS	A01	PASS
14.2.1	4.2.42	Reference sensitivity - TCH/FS				
		NT / NV	A01	PASS	A01	PASS

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		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.2.3	4.2.43	Reference sensitivity - FACCH/F					
		NT / NV	A01	PASS	A01	PASS	
14.16.1	4.2.44	Minimum Input level for Reference Performance - GPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.6.1	4.2.32	Intermodulation rejection-speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.8.1	4.2.35	AM suppression-speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.5.1	4.2.38	Adjacent channel rejection-speech channels (TCH/FS)					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.7.1	4.2.20	Blocking and spurious response – speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.3	4.2.40	Adjacent channel rejection - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.4	4.2.34	Intermodulation rejection - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.1	4.2.26	Frequency error and Modulation accuracy in EGPRS Configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	

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		NT / HV	A01	PASS	A01	PASS	
13.17.2	4.2.27	Frequency error under multipath and interference conditions in EGPRS Configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.3	4.2.28	EGPRS Transmitter output power					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.4	4.2.29	Output RF spectrum in EGPRS configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.1	4.2.45	Minimum Input level for Reference Performance - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.5	4.2.30	Blocking and spurious response in EGPRS configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	

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Table A.2: The EN Requirements Table (EN-RT) (Re. ETSI EN 301 511 Annex A) for SIM Card 2

Test Case (ETSI TS 151010-1)	Test Case (EN 301 511)	Parameter	GSM 900		GSM 1800		Note
			Sample	Result	Sample	Result	
12.1.1	4.2.12	Conducted spurious emissions - MS allocated a channel					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
12.1.2	4.2.13	Conducted spurious emissions - MS in idle mode					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
12.2.1	4.2.16	Radiated spurious emissions - MS allocated a channel					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
12.2.2	4.2.17	Radiated spurious emissions - MS in idle mode					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.1	4.2.1	Transmitter - Frequency error and phase error					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
		Vibration X-axis	A01	PASS	A01	PASS	
		Vibration Y-axis	A01	PASS	A01	PASS	
		Vibration Z-axis	A01	PASS	A01	PASS	
13.2	4.2.2	Transmitter - Frequency error under multipath and interference conditions					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
13.3	4.2.5	Transmitter output power and burst timing					

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		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
13.4	4.2.6	Transmitter - Output RF spectrum					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
13.16.1	4.2.4	Frequency error and phase error in GPRS multislot configuration					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
		Vibration X-axis	A01	PASS	A01	PASS	
		Vibration Y-axis	A01	PASS	A01	PASS	
13.16.2	4.2.10	Transmitter output power in GPRS multislot configuration					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT/HV	A01	PASS	A01	PASS	
13.16.3	4.2.11	Output RF spectrum in GPRS multislot configuration					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT/HV	A01	PASS	A01	PASS	
14.2.1	4.2.42	Reference sensitivity - TCH/FS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	

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		NT / HV	A01	PASS	A01	PASS	
14.2.3	4.2.43	Reference sensitivity - FACCH/F					
		NT / NV	A01	PASS	A01	PASS	
14.16.1	4.2.44	Minimum Input level for Reference Performance - GPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.6.1	4.2.32	Intermodulation rejection-speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.8.1	4.2.35	AM suppression-speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.5.1	4.2.38	Adjacent channel rejection-speech channels (TCH/FS)					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.7.1	4.2.20	Blocking and spurious response – speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.3	4.2.40	Adjacent channel rejection - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.4	4.2.34	Intermodulation rejection - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.1	4.2.26	Frequency error and Modulation accuracy in EGPRS Configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	

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		NT / HV	A01	PASS	A01	PASS	
13.17.2	4.2.27	Frequency error under multipath and interference conditions in EGPRS Configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.3	4.2.28	EGPRS Transmitter output power					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.4	4.2.29	Output RF spectrum in EGPRS configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.1	4.2.45	Minimum Input level for Reference Performance - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.5	4.2.30	Blocking and spurious response in EGPRS configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	

Note: The worst test case is SIM Card 1.

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Appendix A. Transmitter - Frequency error and phase error

Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN/VN) of fellow:

GSM900

RMS phase error(degree)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	5	0.6	0.5	0.5	PASS
	19	0.6	0.6	0.4	PASS
When the MS is being vibrated	5	0.6	0.6	0.6	PASS
	19	0.7	0.5	0.5	PASS

Peak phase error(degree)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	5	1.8	1.4	1.5	PASS
	19	1.7	1.5	1.3	PASS
When the MS is being vibrated	5	1.7	1.7	1.7	PASS
	19	1.6	1.6	1.6	PASS

frequency error(Hz)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	5	14	12	10	PASS
	19	13	13	11	PASS
When the MS is being vibrated	5	11	12	14	PASS
	19	12	11	12	PASS

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DCS1800

RMS phase error(degree)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	0	0.6	0.6	0.5	PASS
	15	0.5	0.4	0.6	PASS
When the MS is being vibrated	0	0.6	0.6	0.6	PASS
	15	0.6	0.4	0.4	PASS

Peak phase error(degree)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	0	2.5	1.9	1.8	PASS
	15	2.4	2.0	1.7	PASS
When the MS is being vibrated	0	2.6	1.8	2.1	PASS
	15	2.3	2.1	2.0	PASS

frequency error(Hz)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	0	17	16	8	PASS
	15	18	15	12	PASS
When the MS is being vibrated	0	13	16	18	PASS
	15	15	17	11	PASS

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Appendix B. Frequency error under multipath and interference conditions

Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN/VN) of fellow:

GSM900

Fading set	Test conditions	Power control LEVEL	Result			
			GSM900			
			ARFCN			
			LCH	MCH	HCH	Result
RA250	TNVN	5	14	13	15	PASS
		19	12	11	16	PASS
HT100	TNVN	5	14	14	14	PASS
		19	12	16	10	PASS
TU50	TNVN	5	13	15	14	PASS
		19	13	14	16	PASS
TU3	TNVN	5	15	12	12	PASS
		19	12	14	13	PASS

DCS1800

Fading set	Test conditions	Power control LEVEL	Result			
			DCS1800			
			ARFCN			
			LCH	MCH	HCH	Result
RA130	TNVN	0	17	16	16	PASS
		15	14	16	15	PASS
HT100	TNVN	0	14	15	17	PASS
		15	16	16	16	PASS
TU50	TNVN	0	14	17	13	PASS
		15	16	15	13	PASS
TU1.5	TNVN	0	11	14	15	PASS
		15	12	14	15	PASS

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Appendix C.Frequency error and phase error in GPRS multislot configuration

Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN/VN) of fellow:

GSM900

RMS phase error(degree)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	5	0.6	0.5	0.6	PASS
	19	0.6	0.6	0.6	PASS
When the MS is being vibrated	5	0.6	0.5	0.6	PASS
	19	0.6	0.5	0.6	PASS

Peak phase error(degree)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	5	1.8	1.5	1.6	PASS
	19	1.8	1.7	1.7	PASS
When the MS is being vibrated	5	1.9	1.5	1.6	PASS
	19	1.7	1.5	1.6	PASS

frequency error(Hz)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	5	15	11	10	PASS
	19	15	15	9	PASS
When the MS is being vibrated	5	11	12	10	PASS
	19	14	12	14	PASS

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DCS1800

RMS phase error(degree)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	0	0.6	0.5	0.5	PASS
	15	0.5	0.5	0.5	PASS
When the MS is being vibrated	0	0.6	0.6	0.5	PASS
	15	0.5	0.5	0.5	PASS

Peak phase error(degree)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	0	1.8	1.7	1.7	PASS
	15	1.6	1.6	1.6	PASS
When the MS is being vibrated	0	1.8	1.7	1.6	PASS
	15	1.6	1.5	1.5	PASS

frequency error(Hz)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TN VN	0	5	9	13	PASS
	15	4	11	10	PASS
When the MS is being vibrated	0	11	12	10	PASS
	15	8	10	9	PASS

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Appendix D. Transmitter output power and burst timing

Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN/VN) of fellow:

A. output power

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
GSM900		LCH	MCH	HCH	Result
TN,VN	5	32.69	32.78	32.90	PASS
	12	18.76	18.89	18.98	PASS
	19	4.91	5.04	5.01	PASS

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
DCS1800		LCH	MCH	HCH	Result
TN,VN	0	29.98	30.26	30.54	PASS
	8	14.30	14.36	14.62	PASS
	15	1.79	1.15	1.36	PASS

B. Power VS Time

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
GSM900	Power level	LCH	MCH	HCH
TN,VN	5	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
DCS1800	Power level	LCH	MCH	HCH
TN,VN	0	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

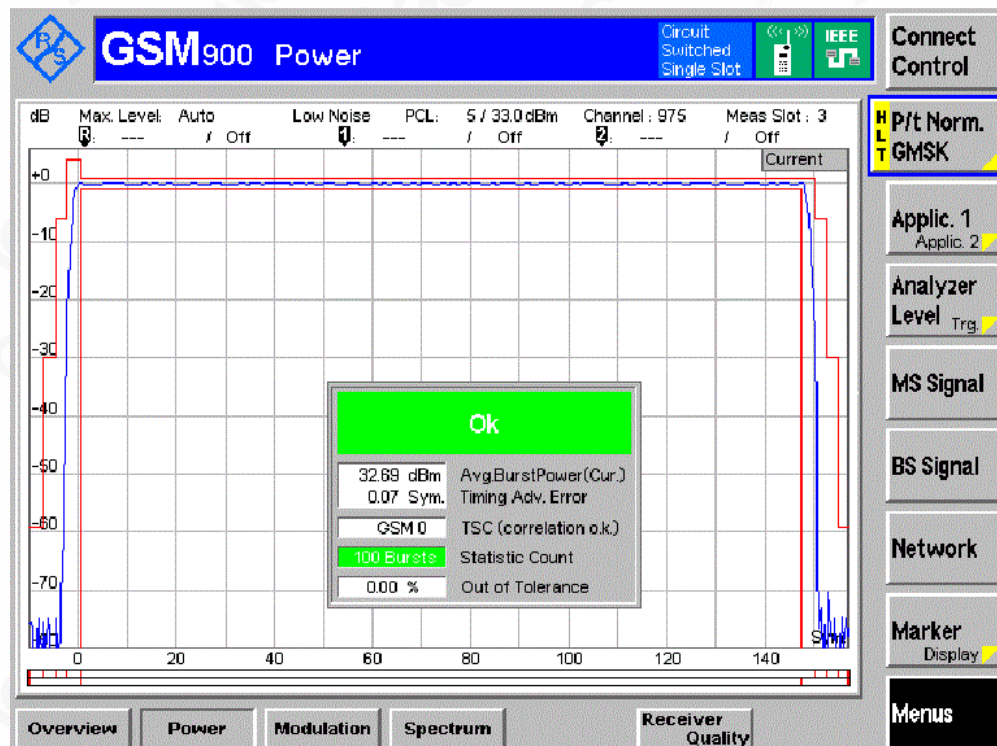
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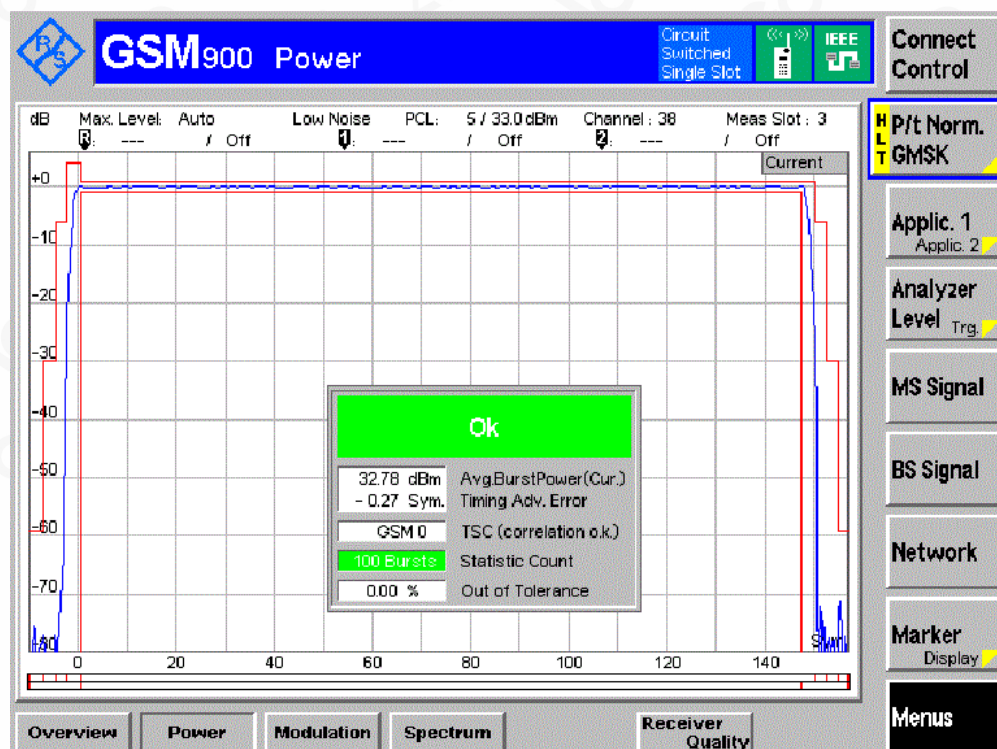
Graphs of output power and burst timing

GSM 900 TN,VN

Channel LCH PCL 5



Channel MCH PCL 5

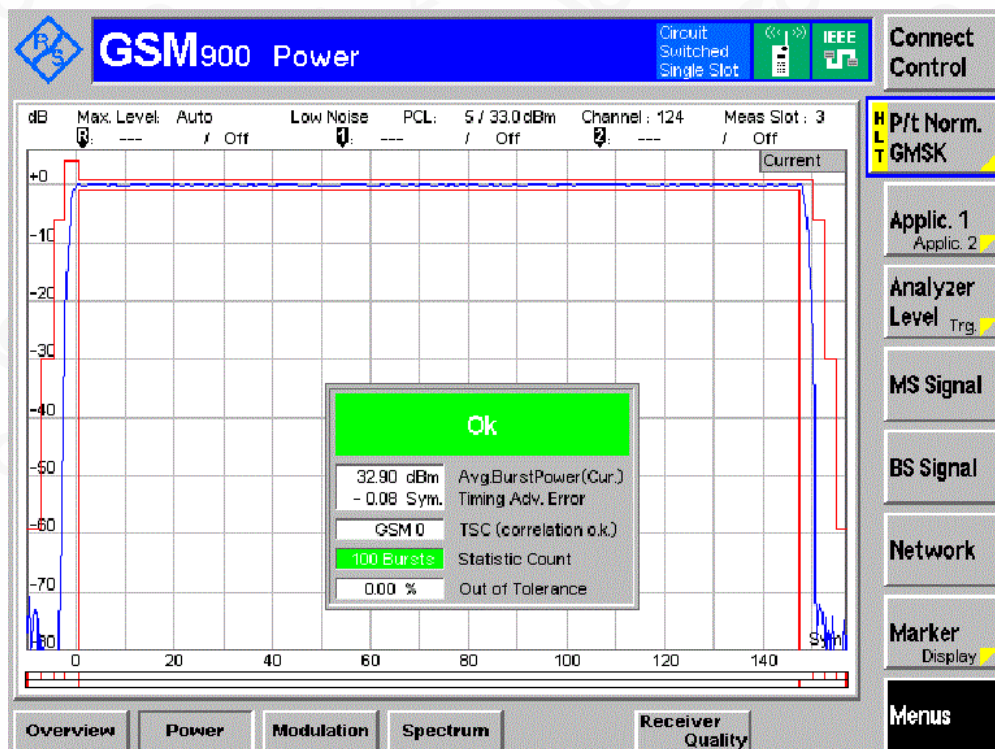


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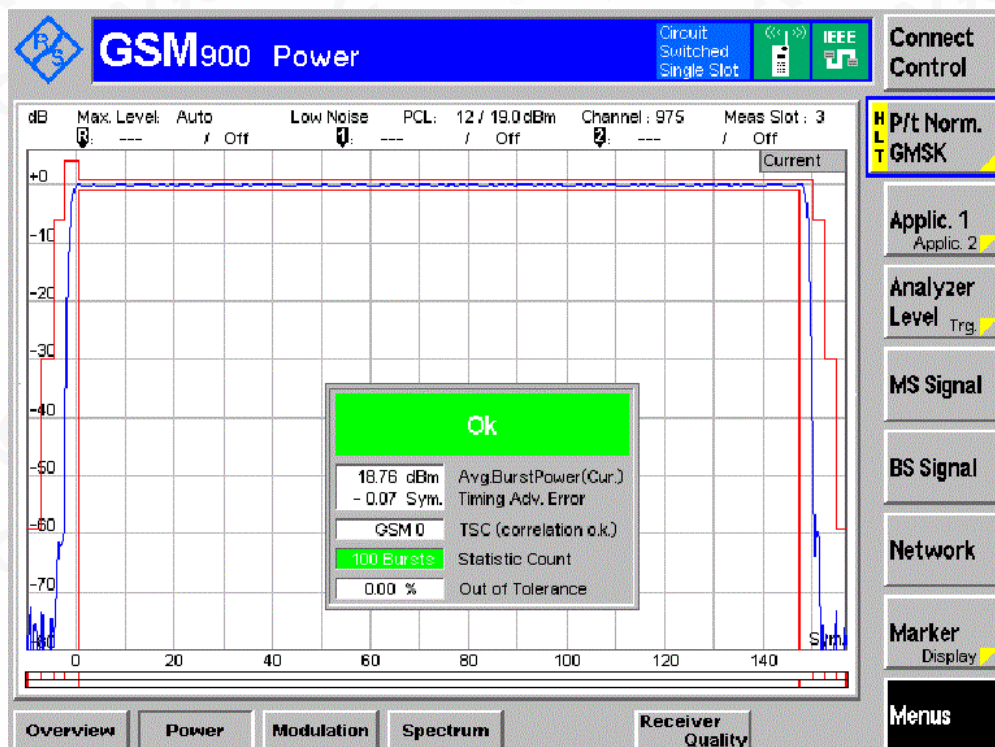
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Channel HCH PCL 5



Channel LCH PCL 12

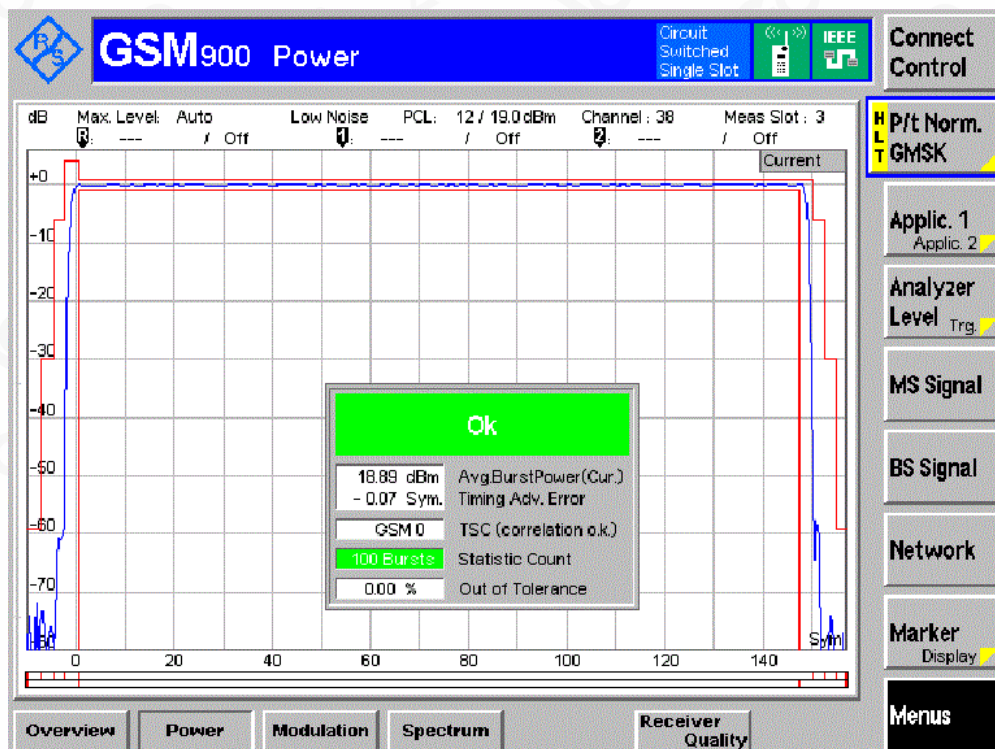


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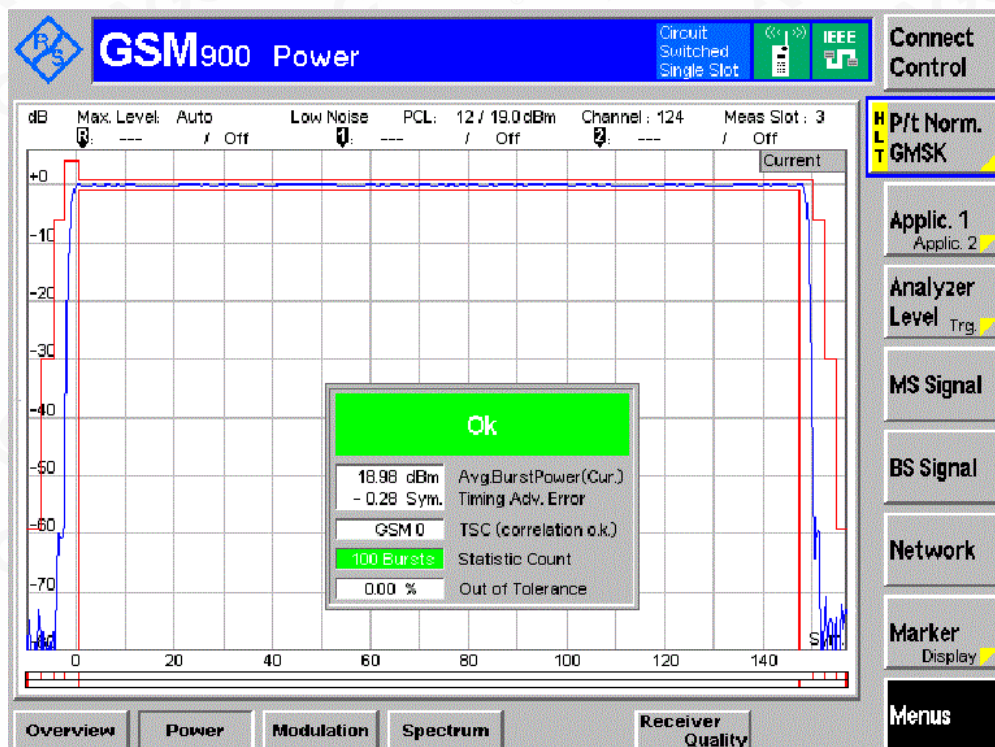
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Channel MCH PCL 12



Channel HCH PCL 12

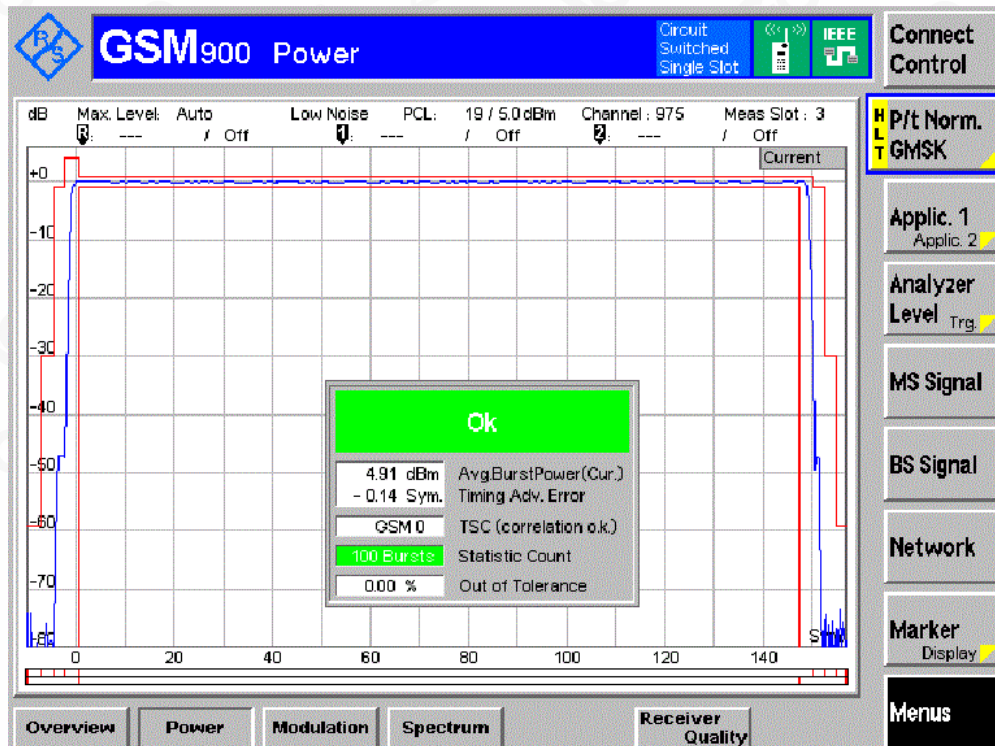


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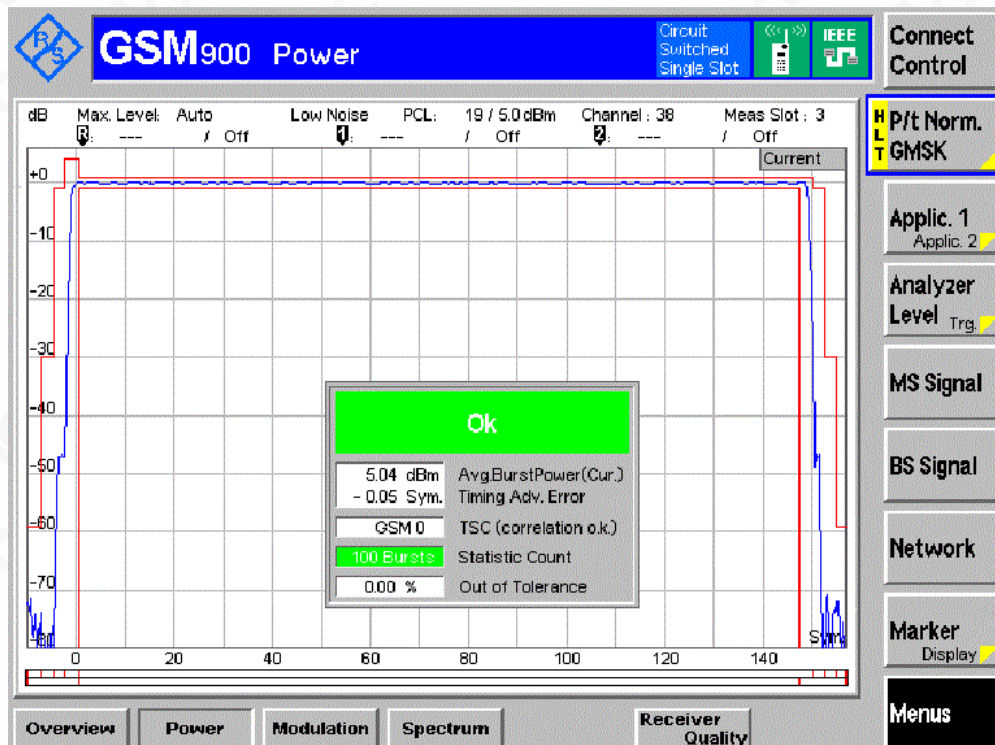
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Channel LCH PCL 19



Channel MCH PCL 19

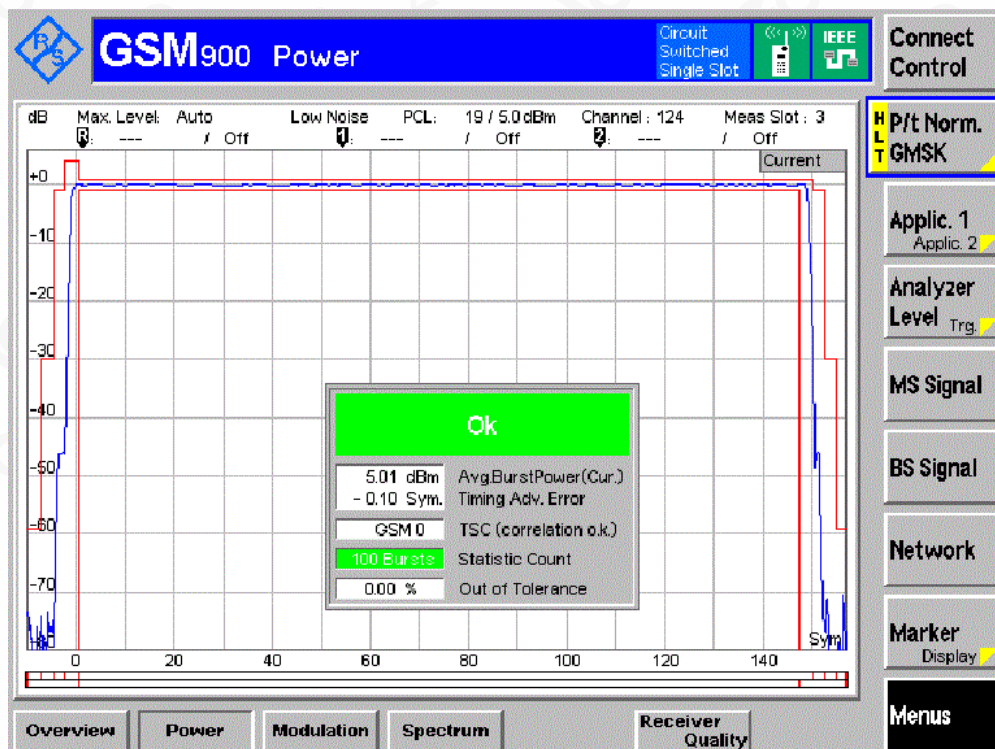


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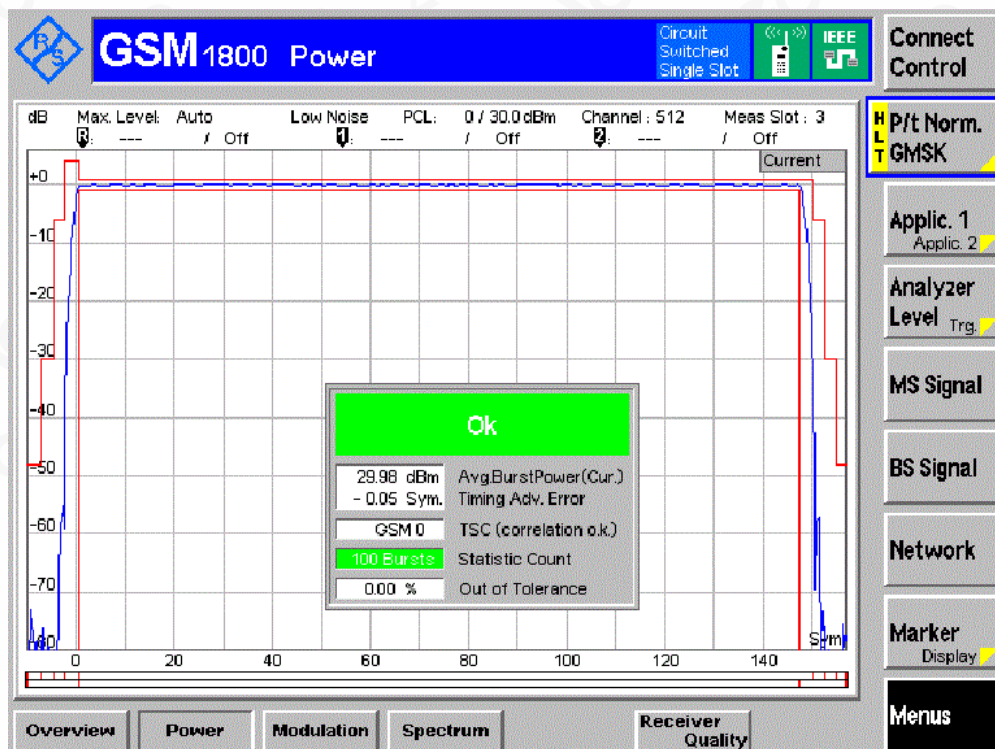


Channel HCH PCL 19



DCS1800 TN,VN

Channel LCH PCL 0

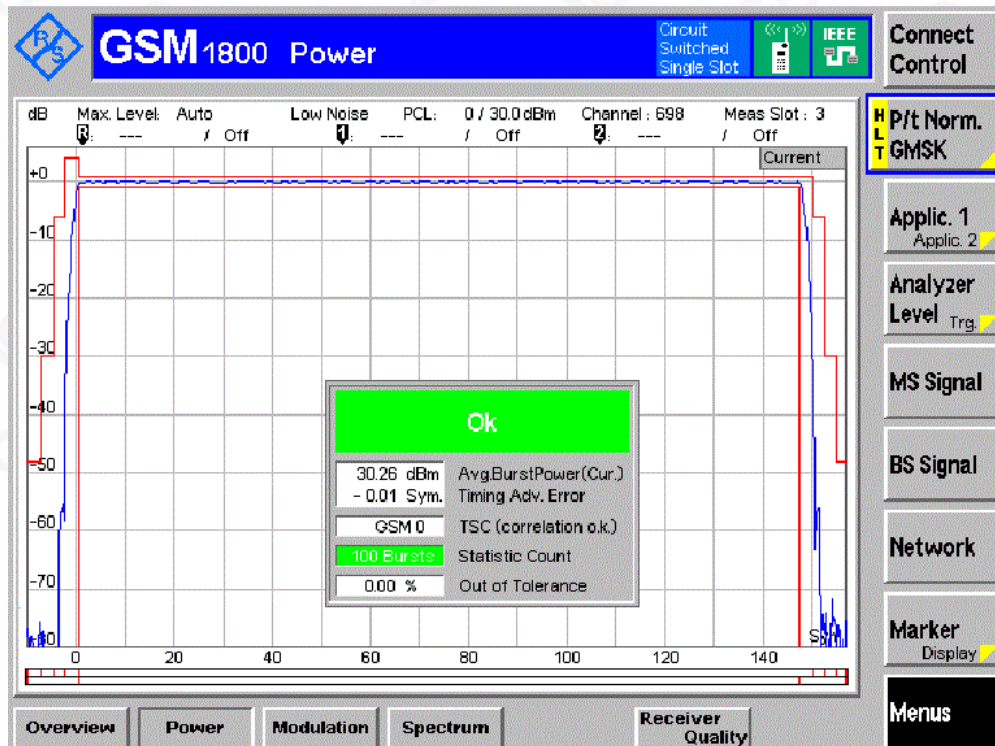


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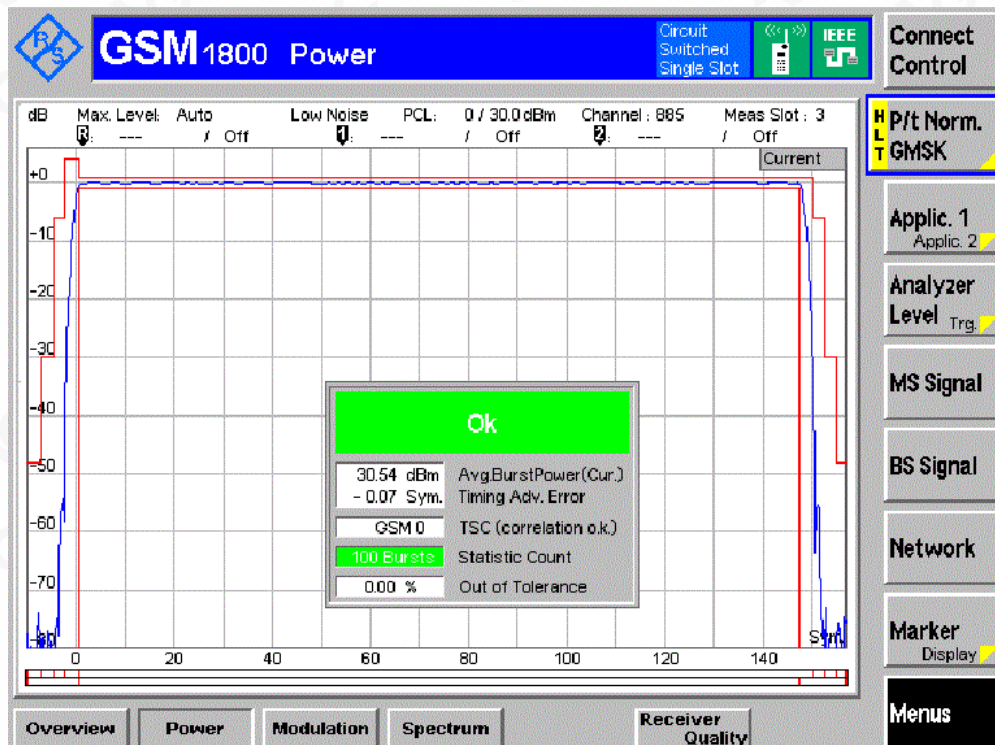
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Channel MCH PCL 0



Channel HCH PCL 0

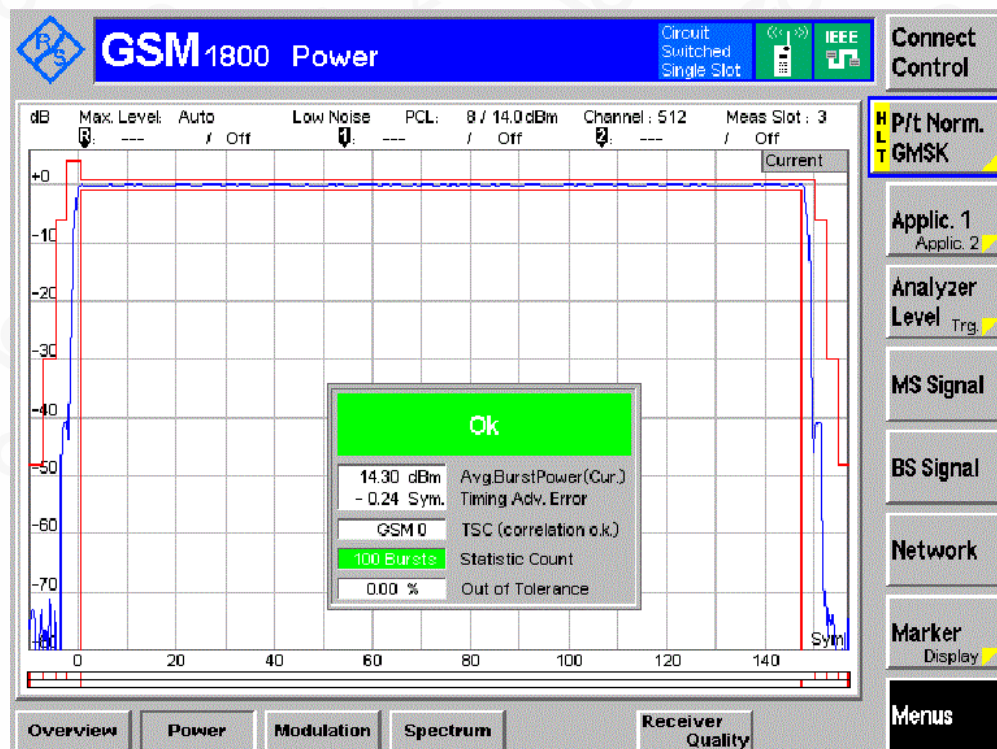


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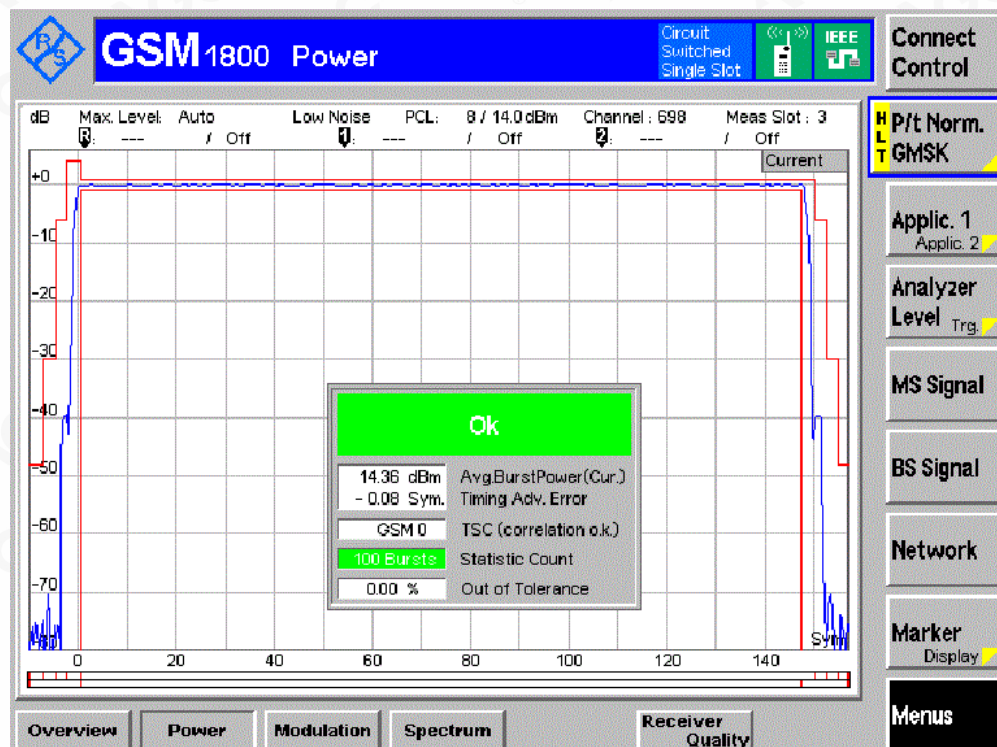
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Channel LCH PCL 8



Channel MCH PCL 8

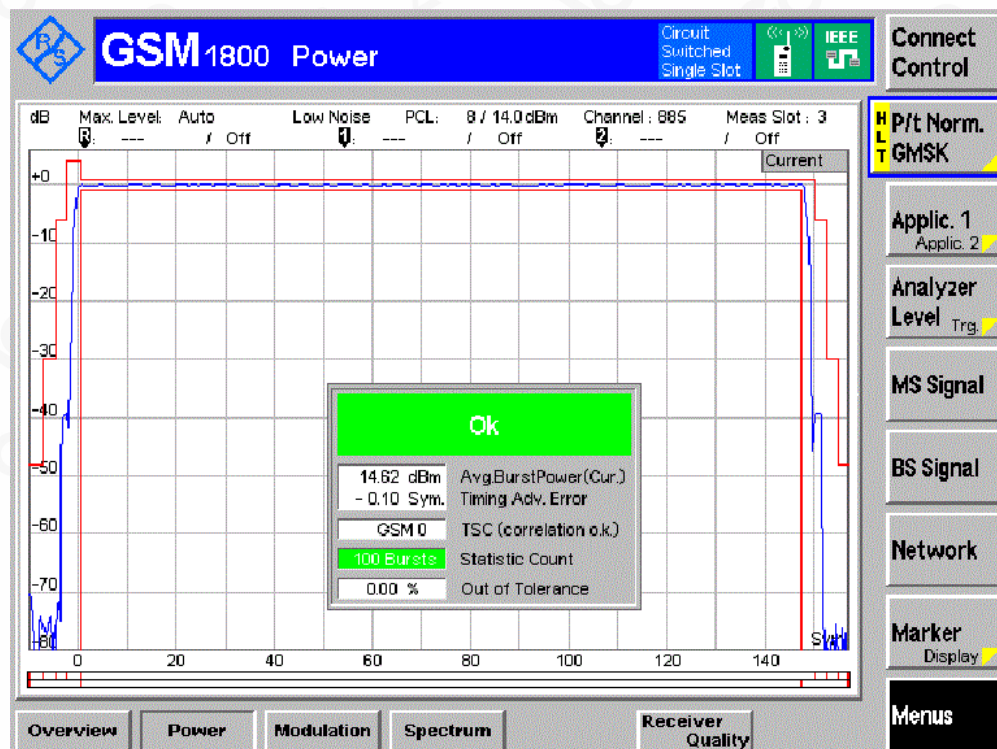


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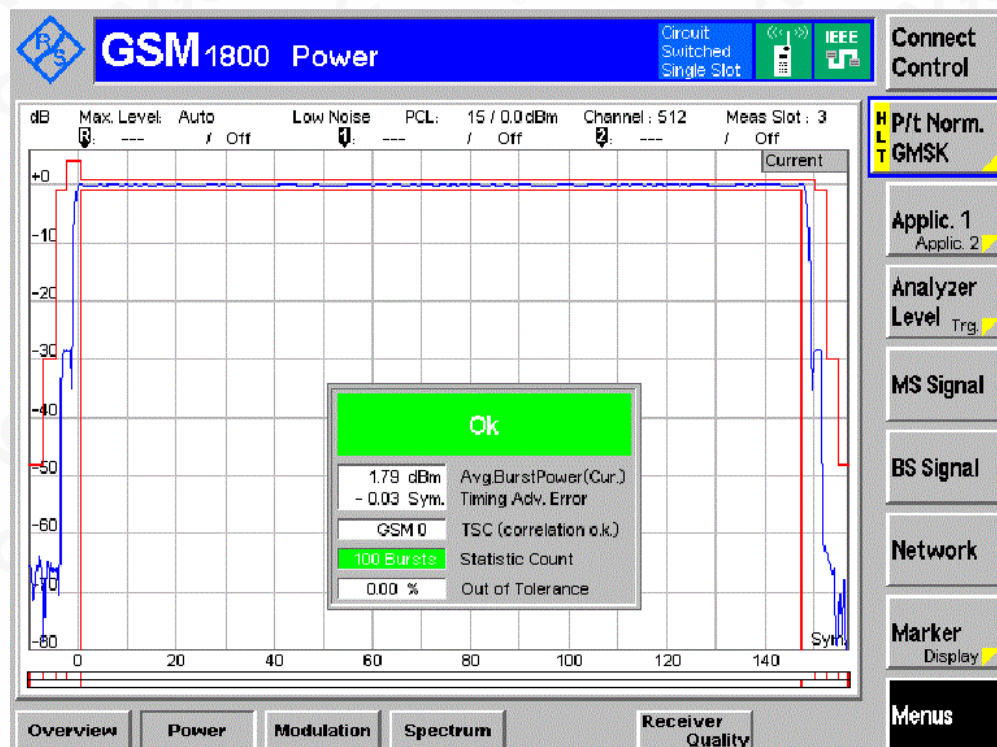
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Channel HCH PCL 8



Channel LCH PCL 8

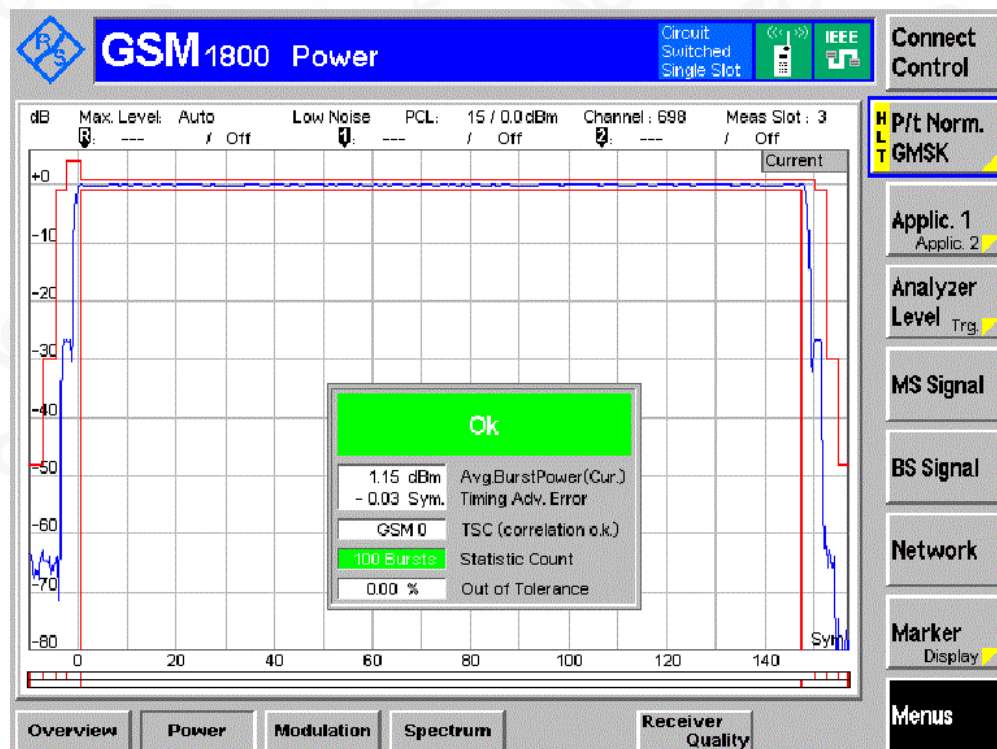


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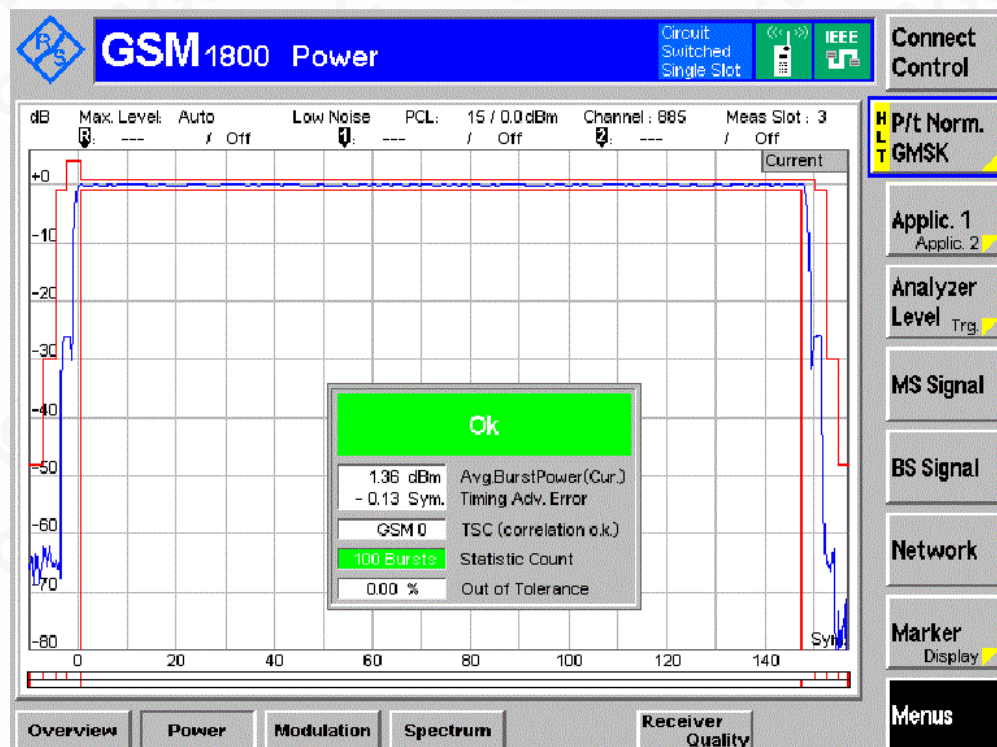
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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix E. Transmitter – Output RF spectrum

Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN/VN) of fellow:

Modulation& switch Spectrum	Power level	Result		
		Traffic Channels		
GSM900		LCH	MCH	HCH
TN,VN	5	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Modulation& switch Spectrum	Power level	Result		
		Traffic Channels		
DCS1800		LCH	MCH	HCH
TN,VN	0	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

Graphs of output RF spectrum

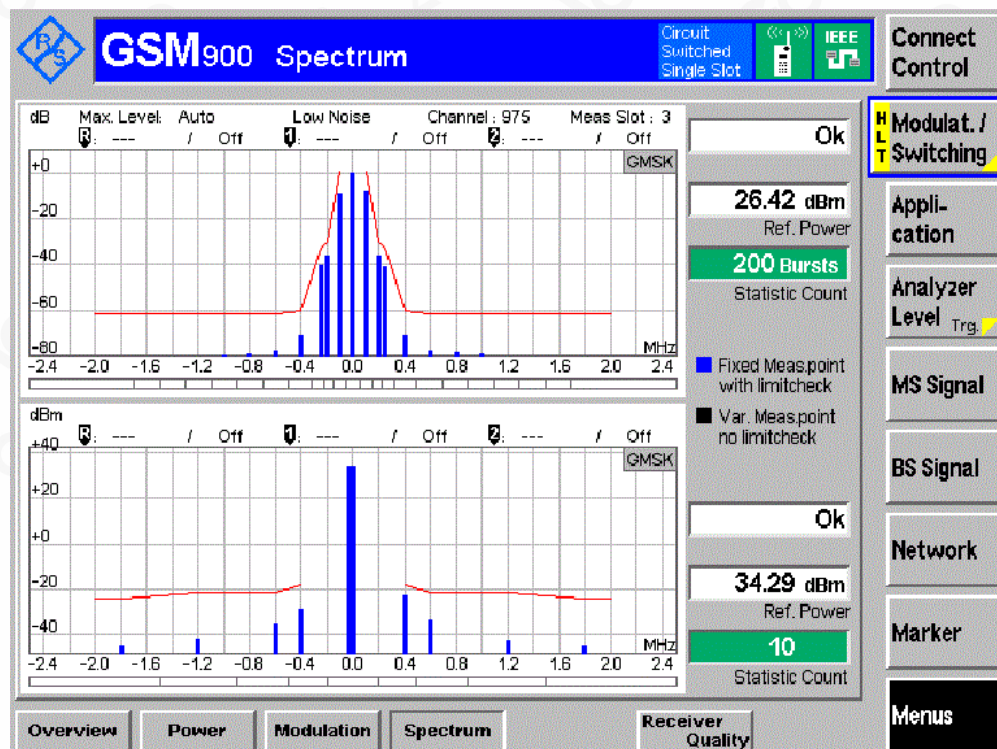
GSM 900 TN,VN

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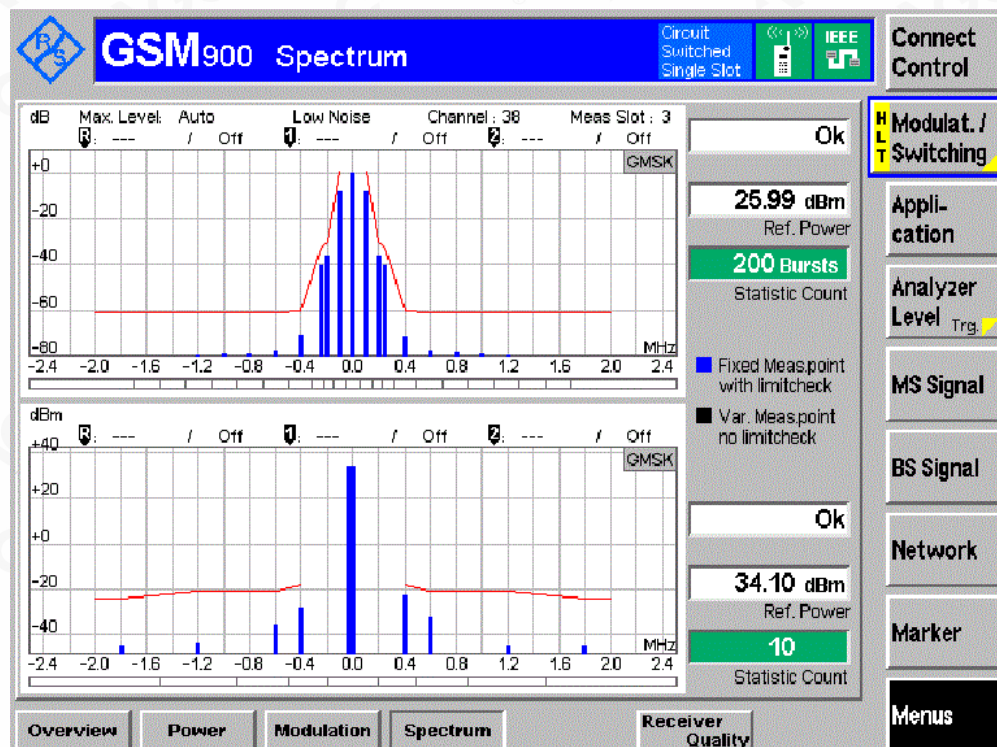
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Channel LCH PCL 5



Channel MCH PCL 5

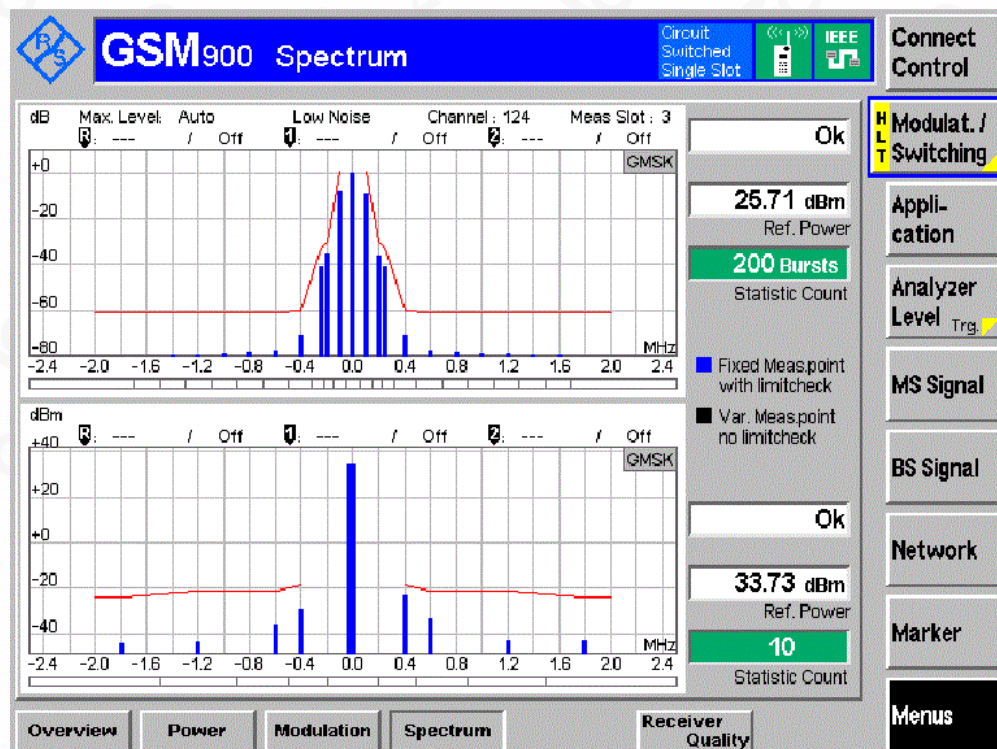


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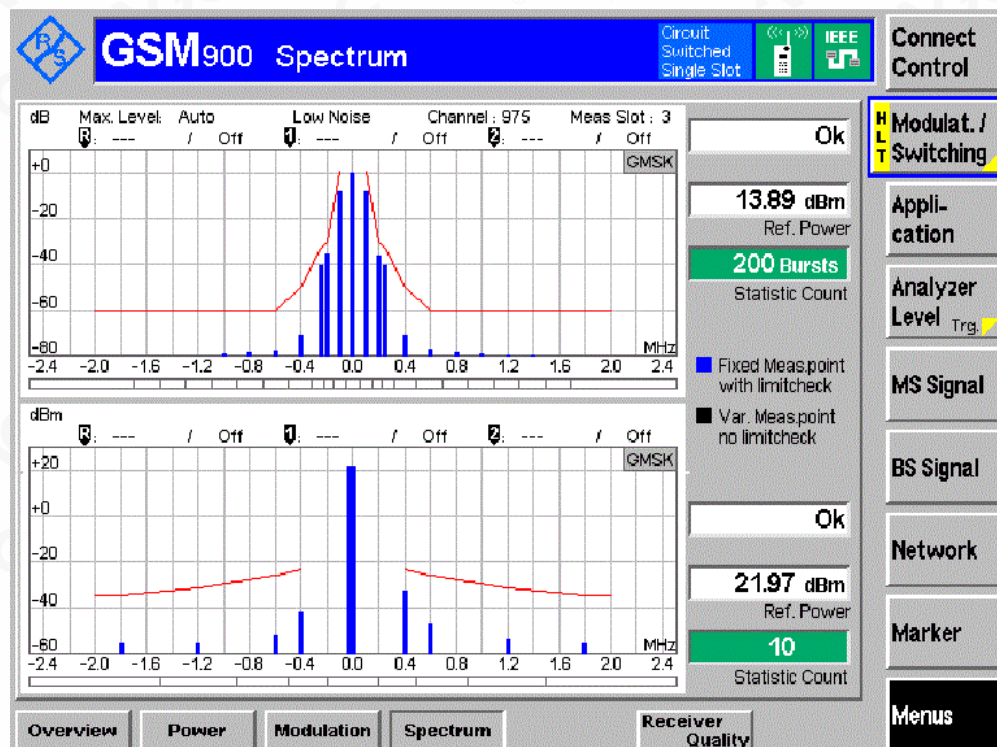
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Channel HCH PCL 5



Channel LCH PCL 12

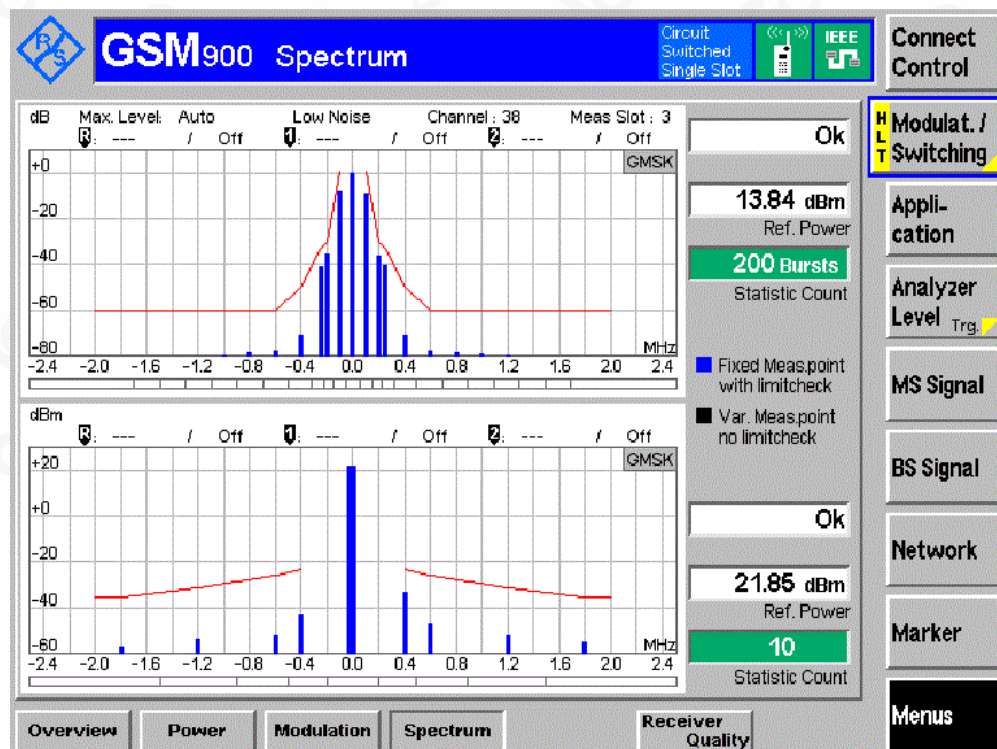


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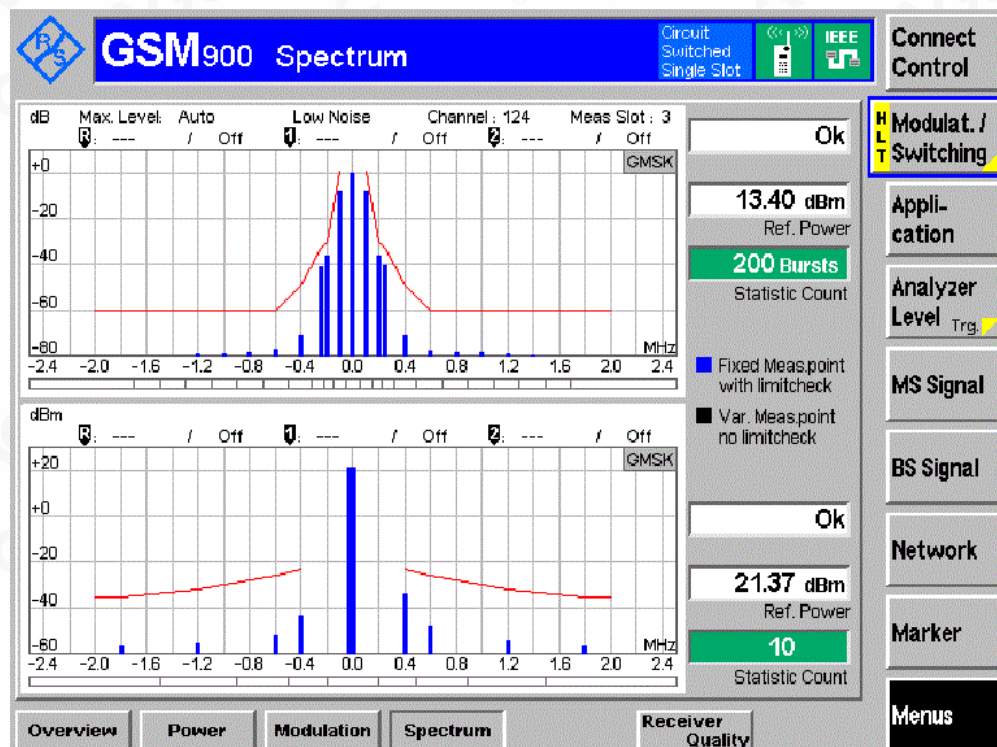
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Channel MCH PCL 12



Channel HCH PCL 12

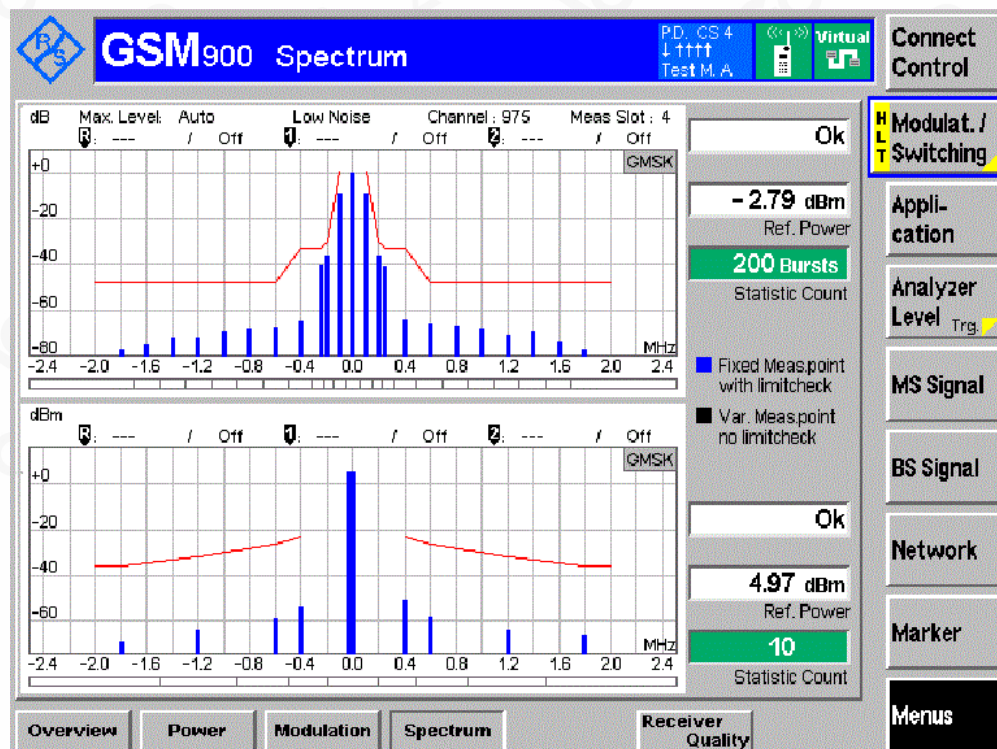


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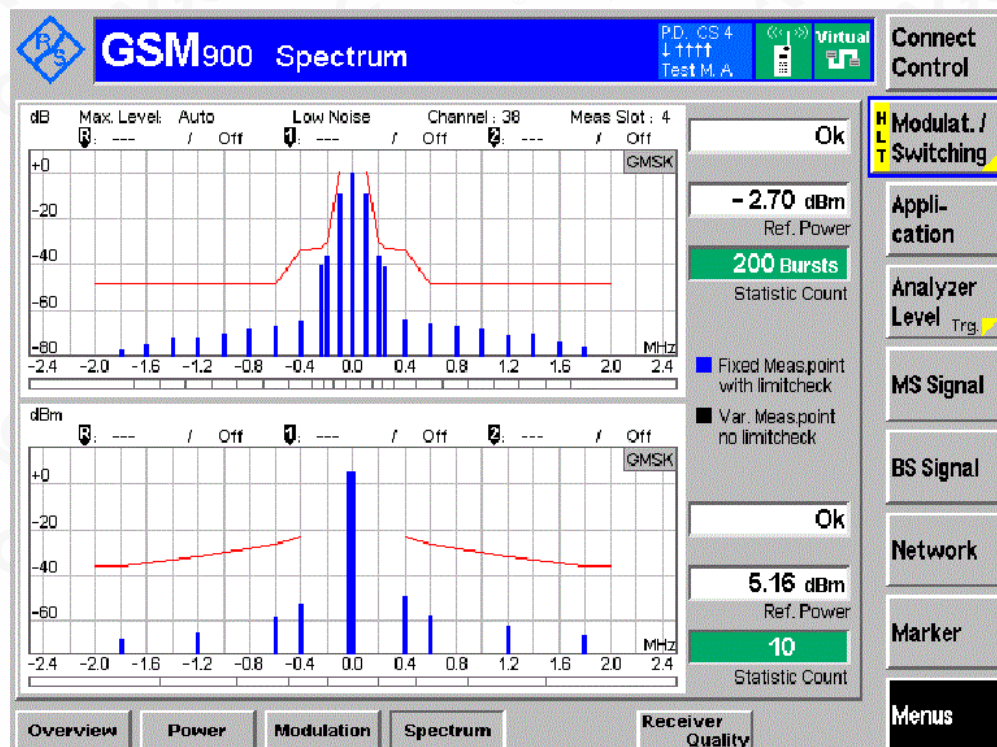
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Channel LCH PCL 19



Channel MCH PCL 19

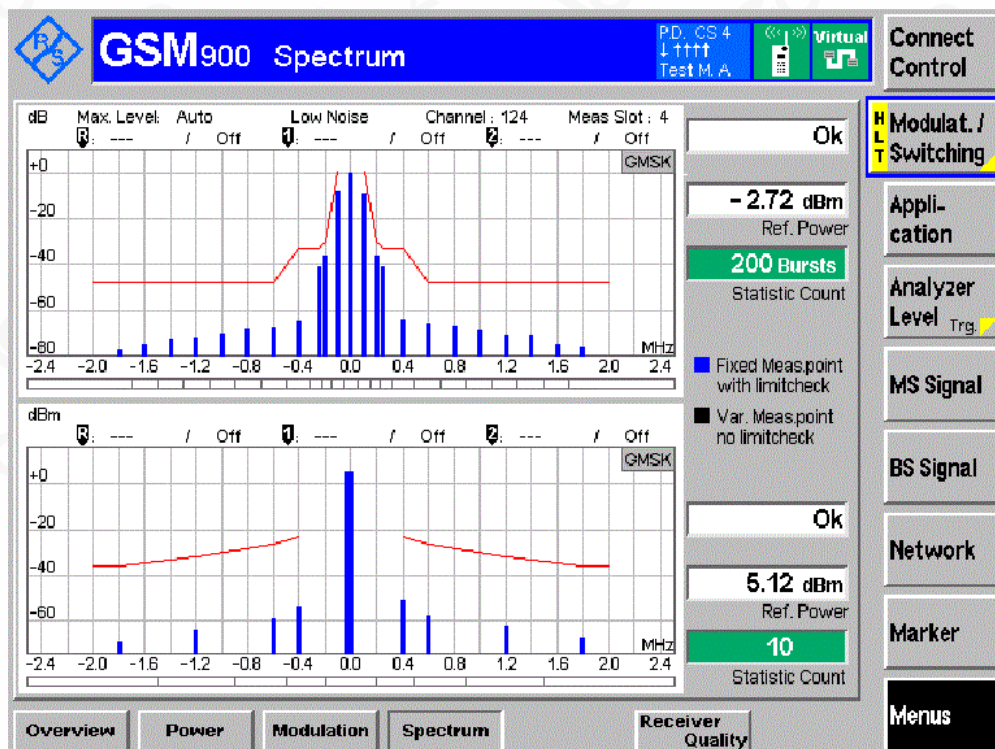


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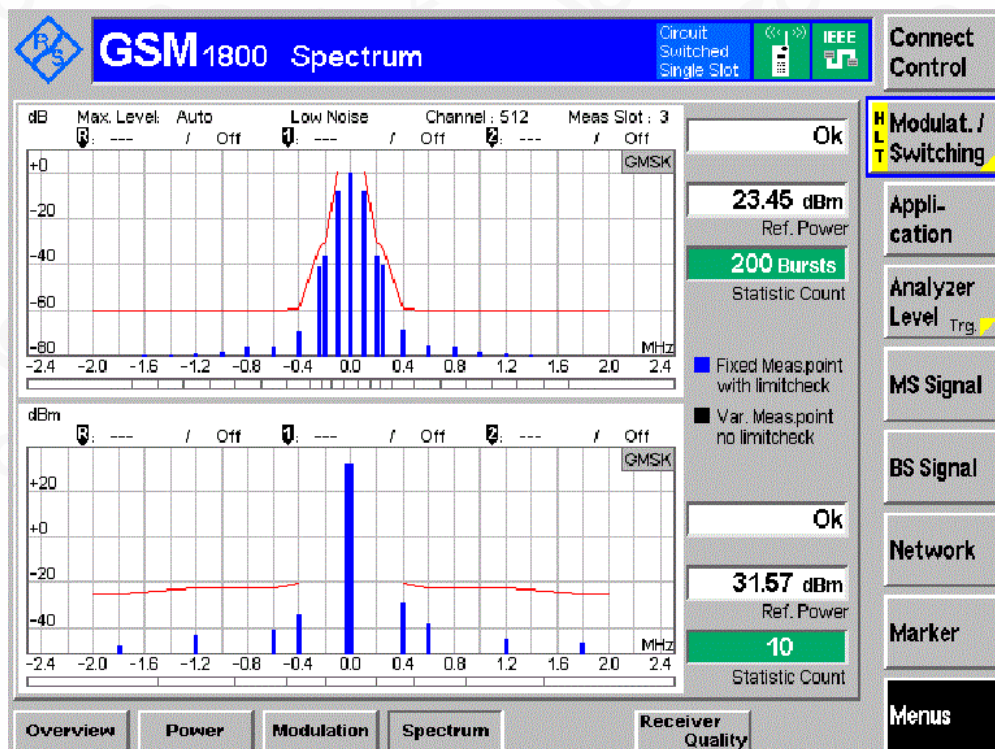


Channel HCH PCL 19



DCS1800 TN,VN

Channel LCH PCL 0

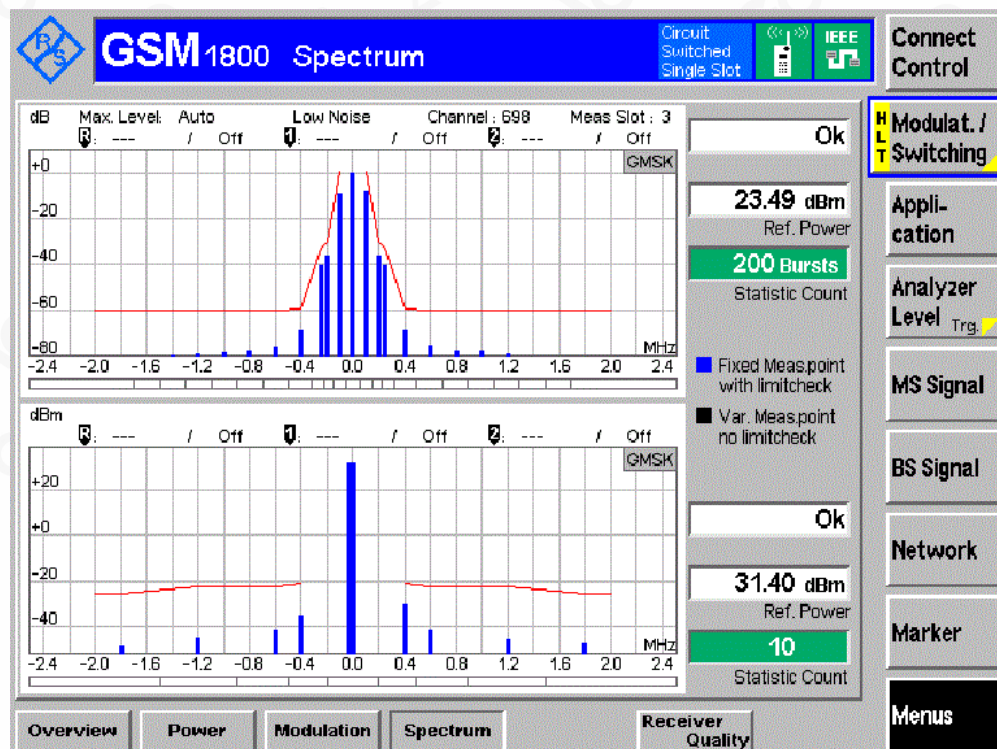


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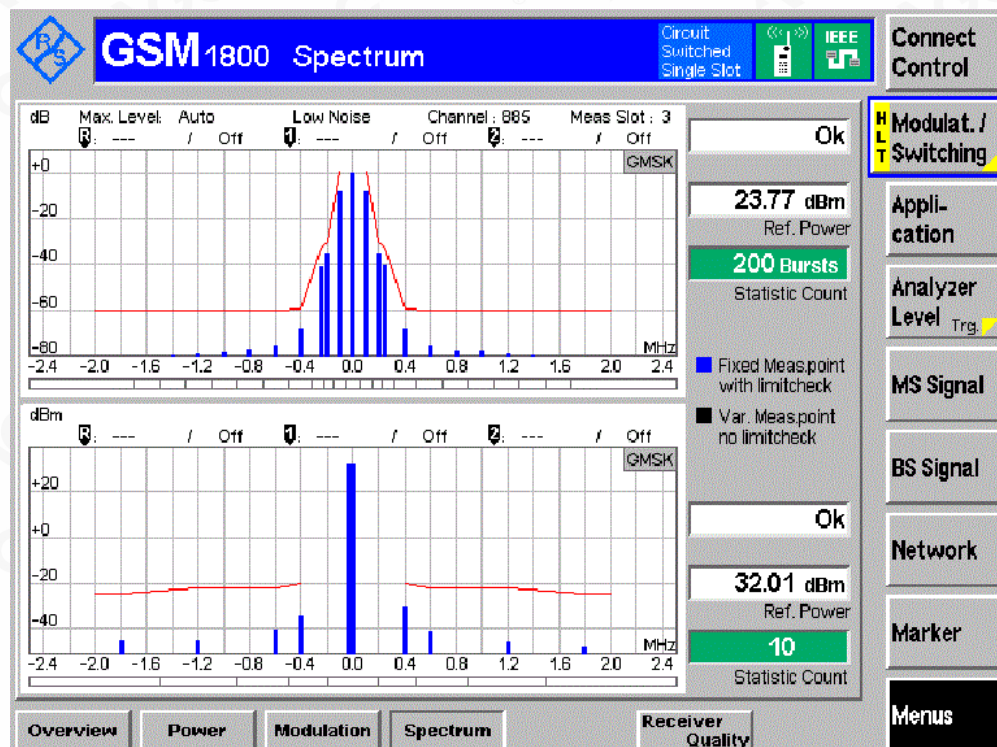
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Channel MCH PCL 0



Channel HCH PCL 0

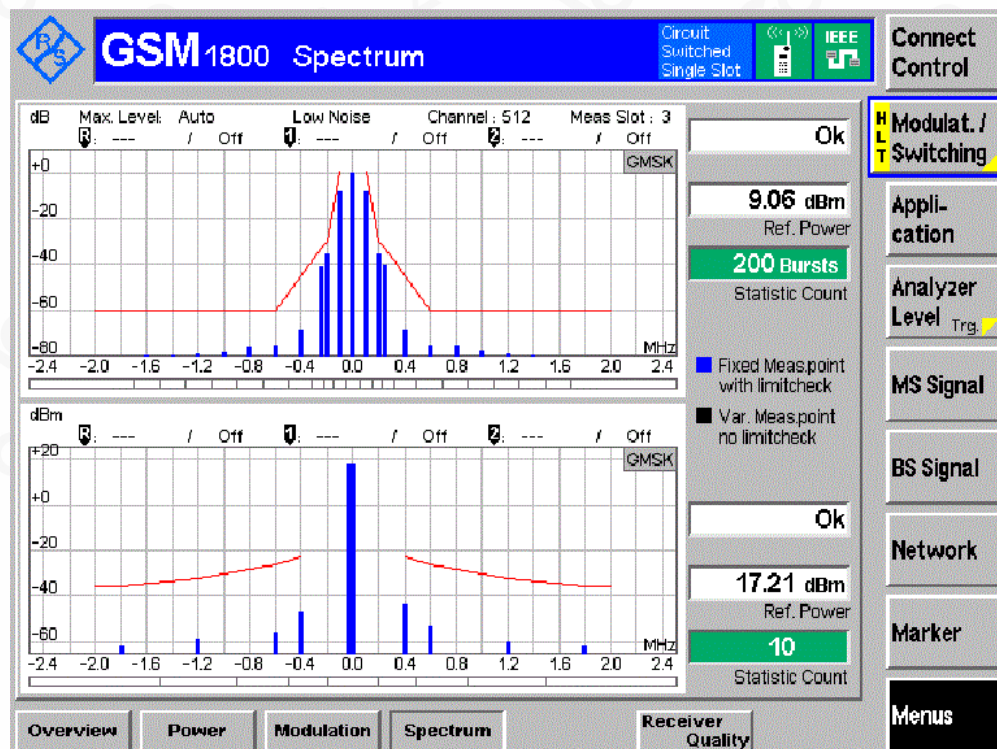


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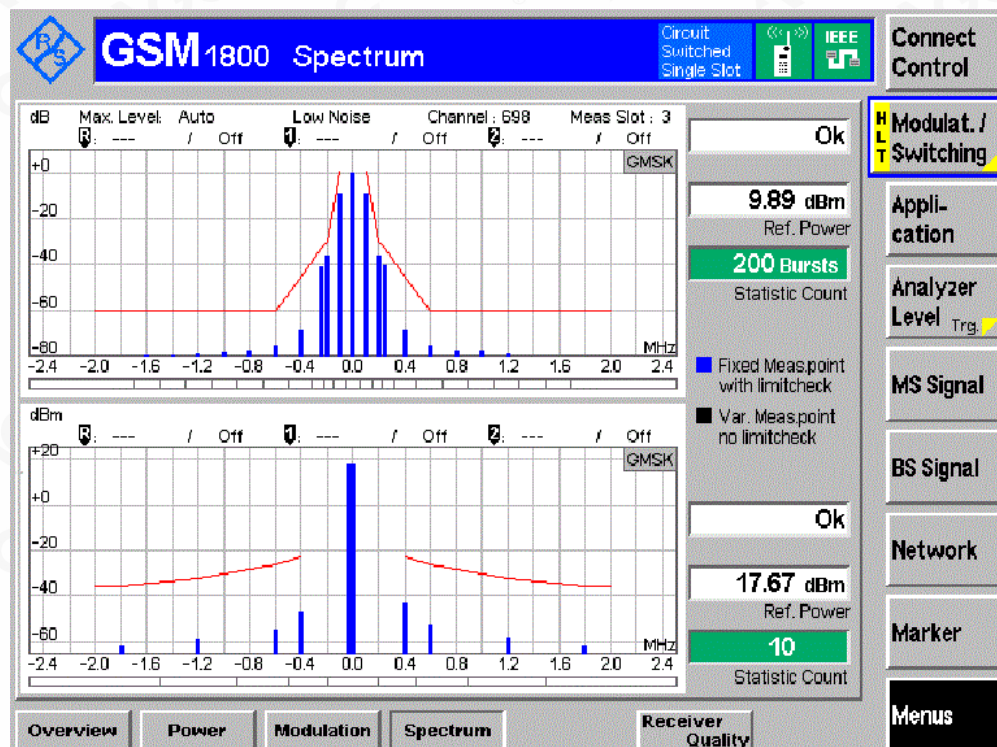
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Channel LCH PCL 8



Channel MCH PCL 8

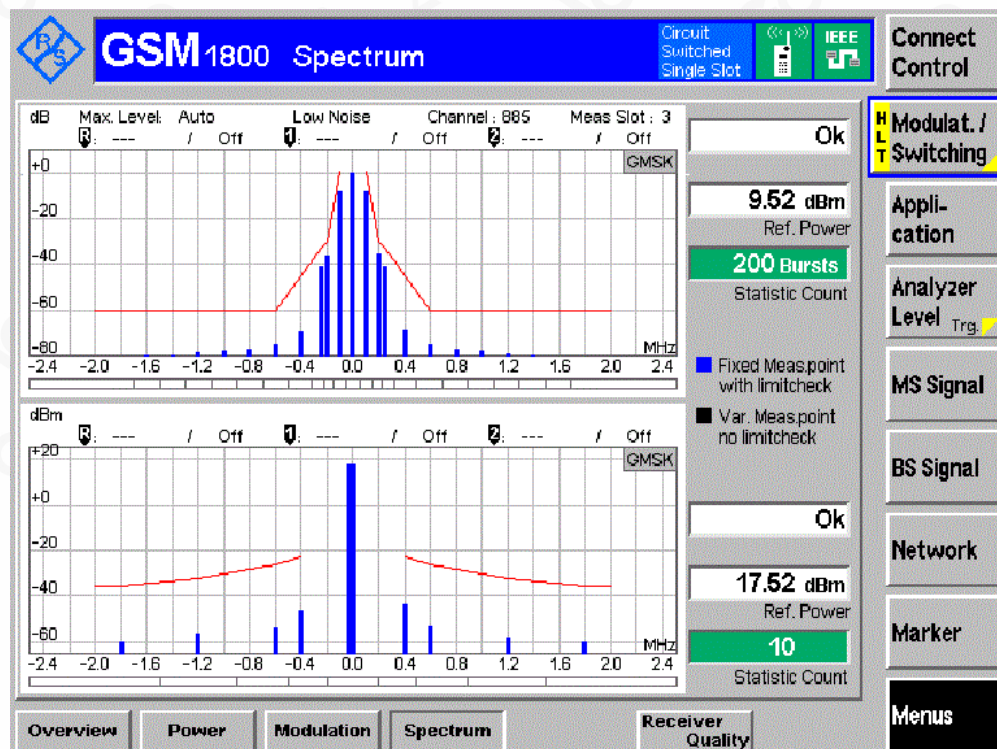


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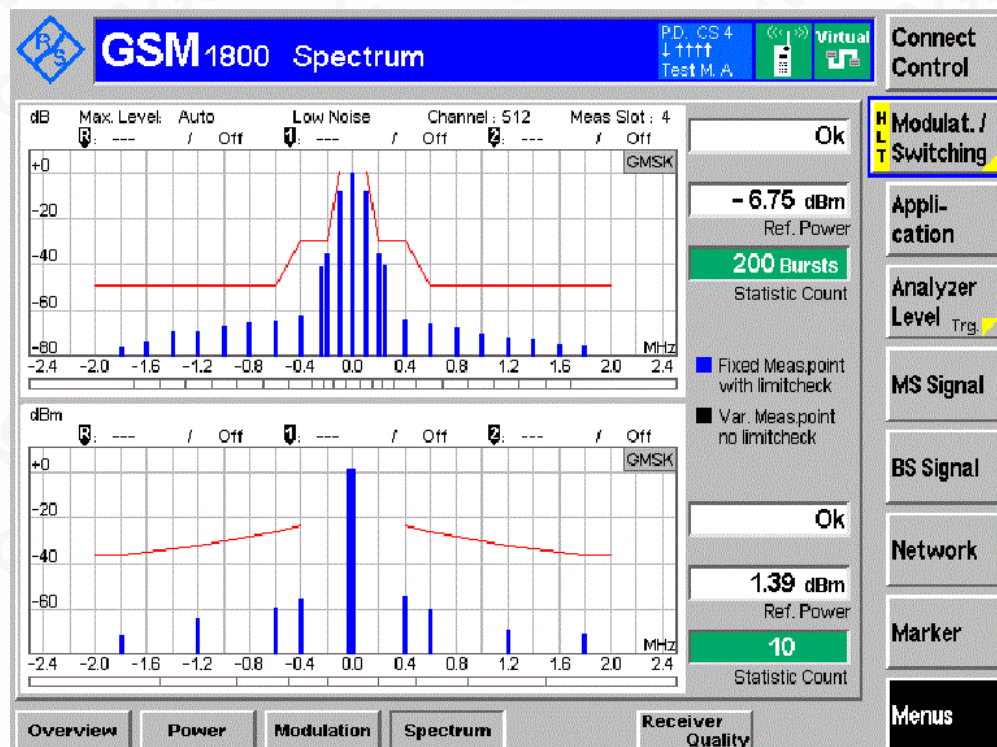
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Channel HCH PCL 8



Channel LCH PCL 15

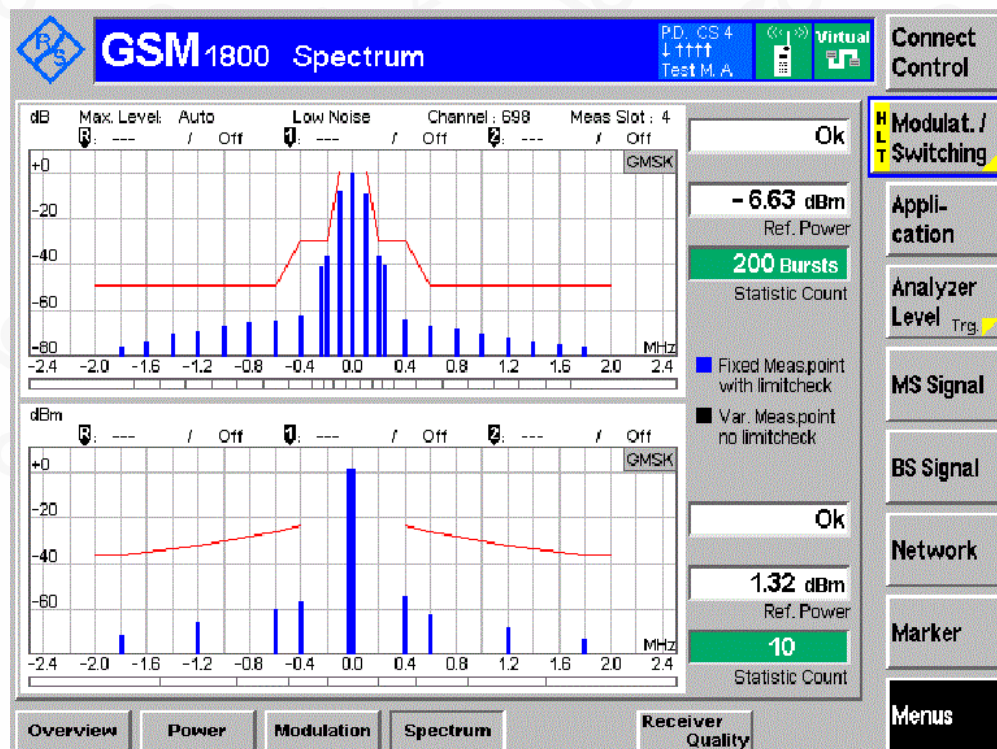


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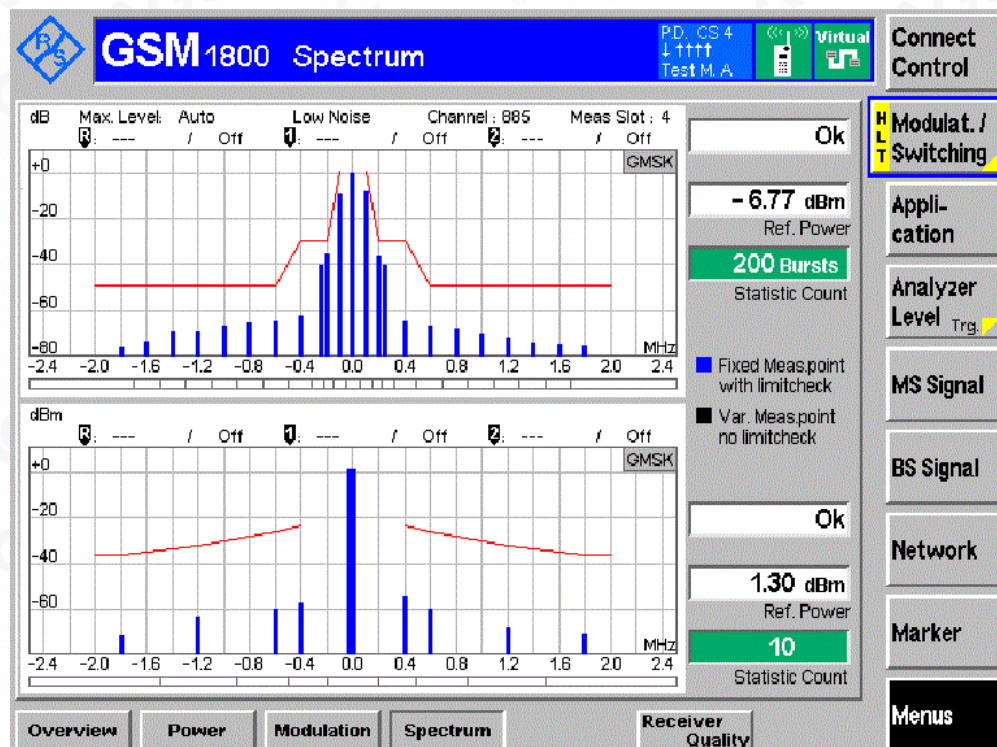
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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix F. Transmitter output power in GPRS multislot configuration

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of fellow:

A. output power

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
GSM900		LCH	MCH	HCH	Result
TN,VN	5	28.71	28.69	28.84	PASS
	12	18.62	18.64	18.79	PASS
	19	5.33	5.37	5.41	PASS

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
DCS1800		LCH	MCH	HCH	Result
TN,VN	0	26.24	26.44	26.79	PASS
	8	14.27	14.28	14.59	PASS
	15	2.01	1.33	1.59	PASS

B. Power VS Time

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
GSM900	Power level	LCH	MCH	HCH
TN,VN	5	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
DCS1800	Power level	LCH	MCH	HCH
TN,VN	0	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

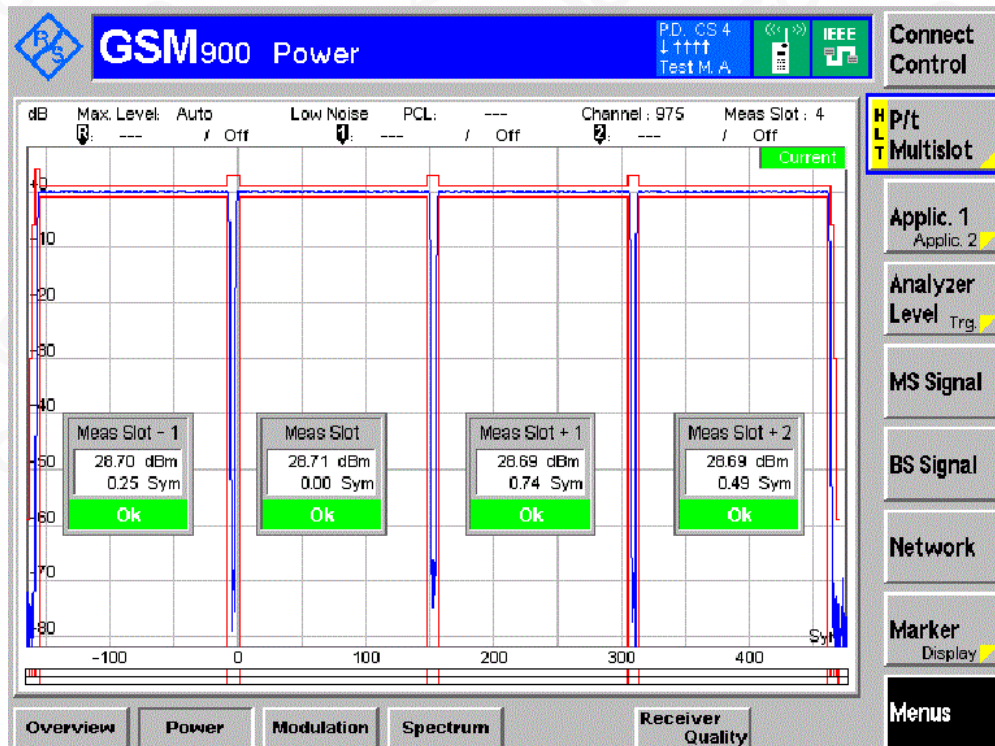
Graphs of output power in GPRS multislot configuration

GSM 900 TN,VN

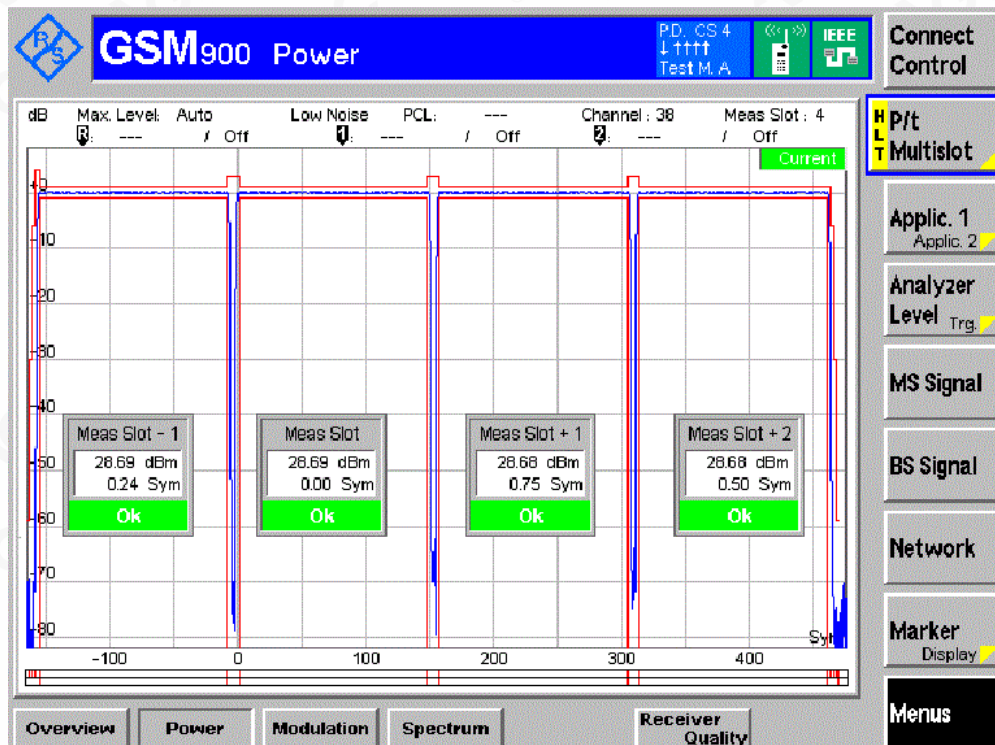
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Channel LCH PCL 5



Channel MCH PCL 5

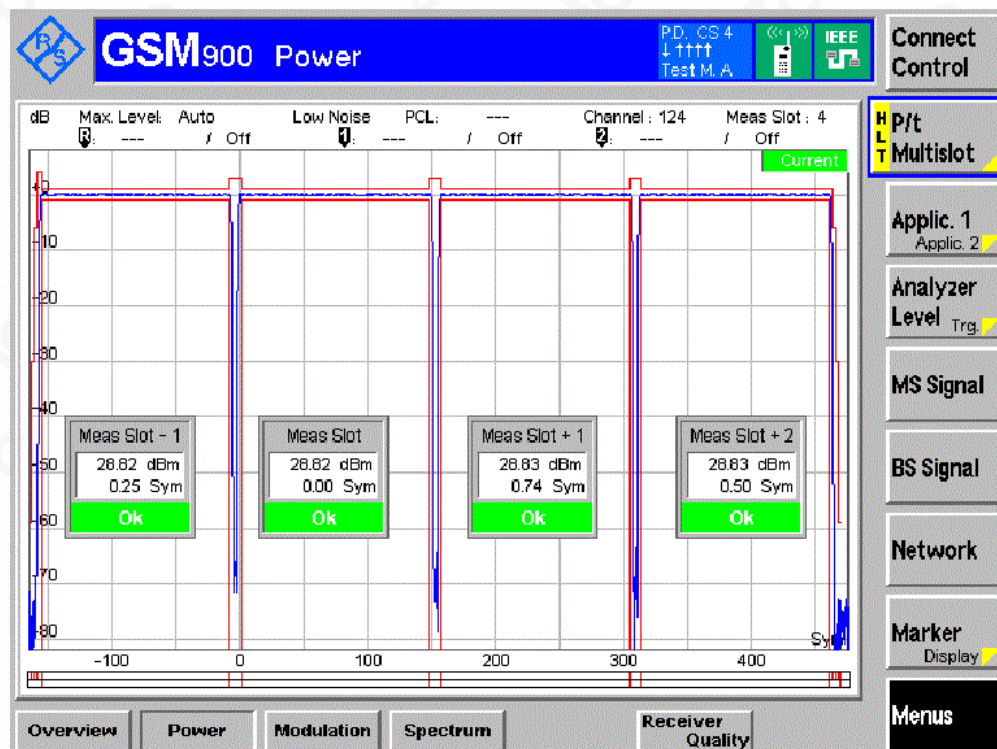


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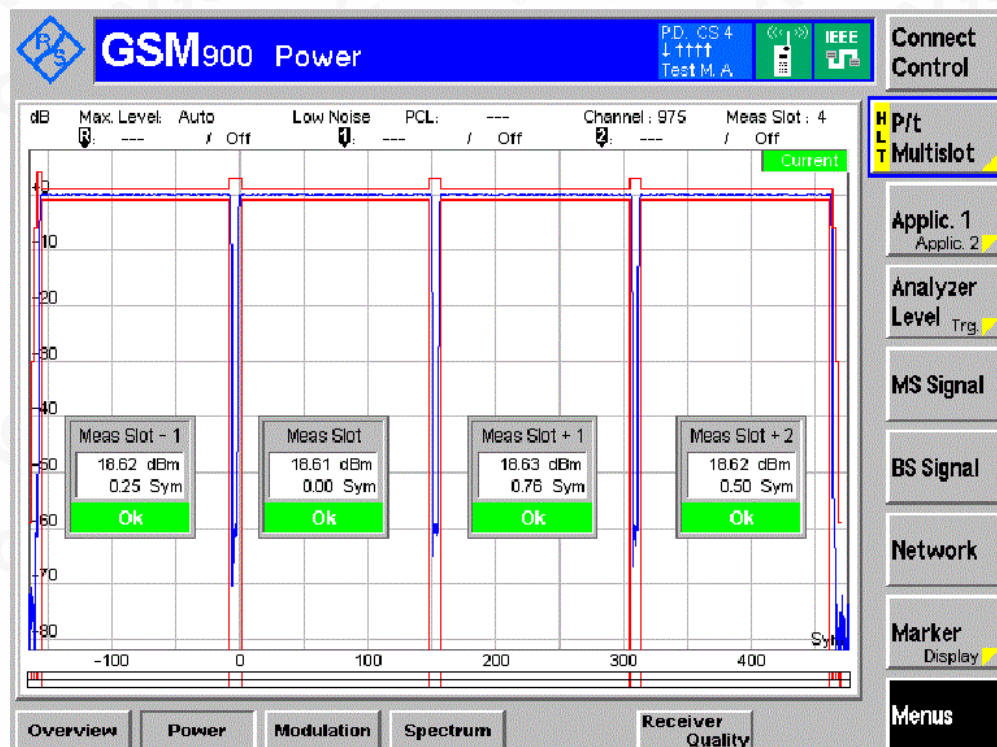
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Channel HCH PCL 5



Channel LCH PCL 12

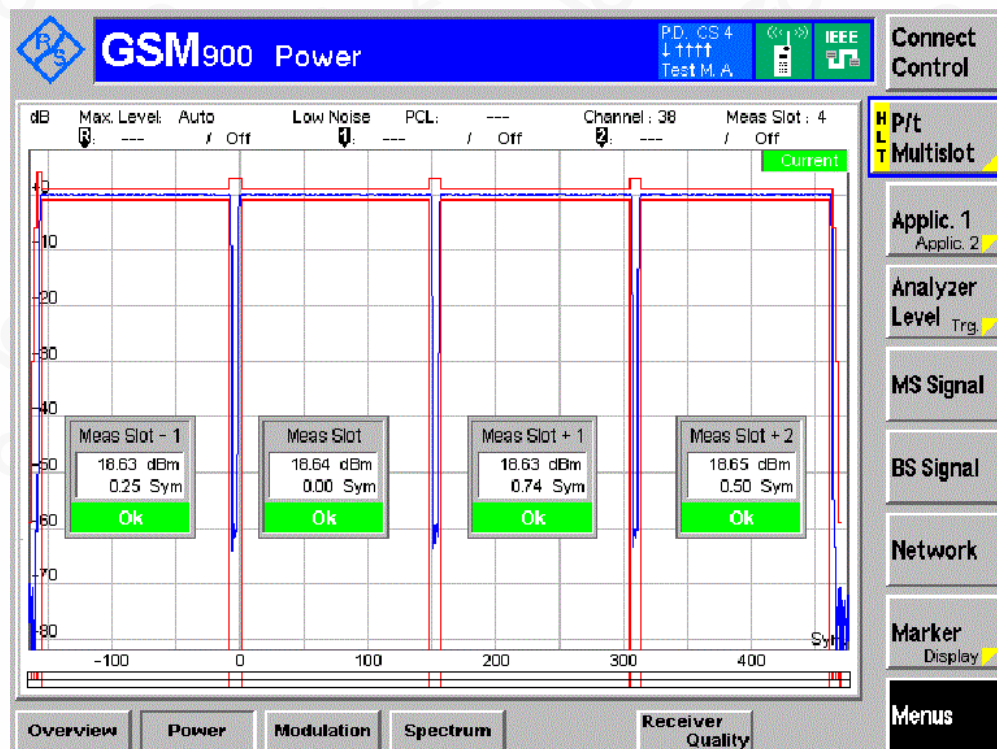


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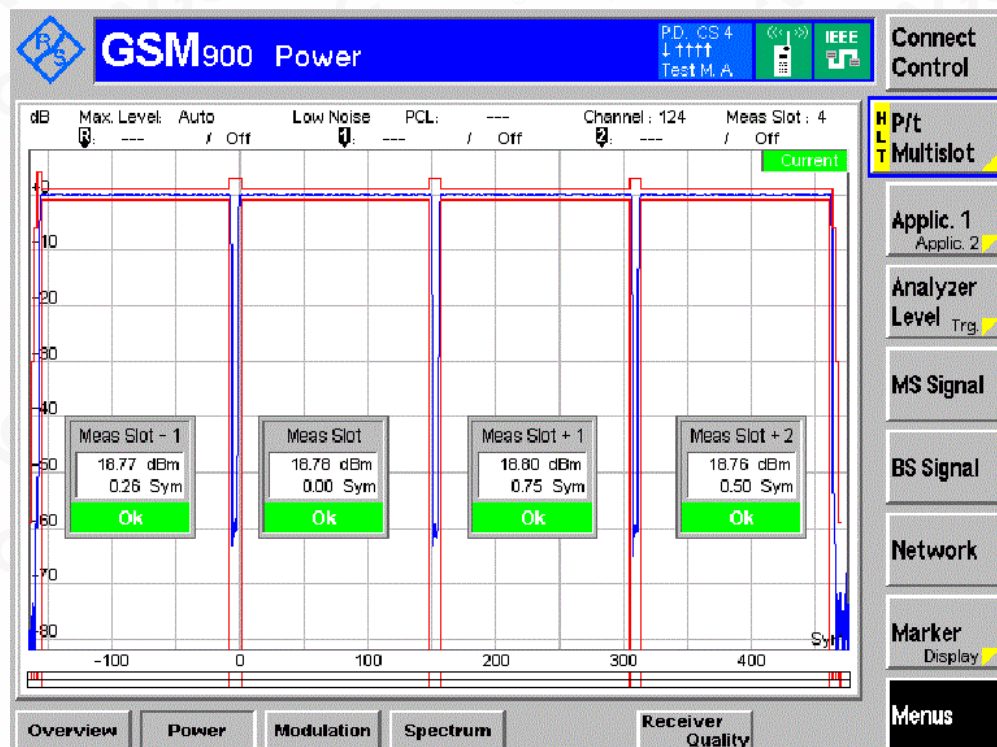
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Channel MCH PCL 12



Channel HCH PCL 12

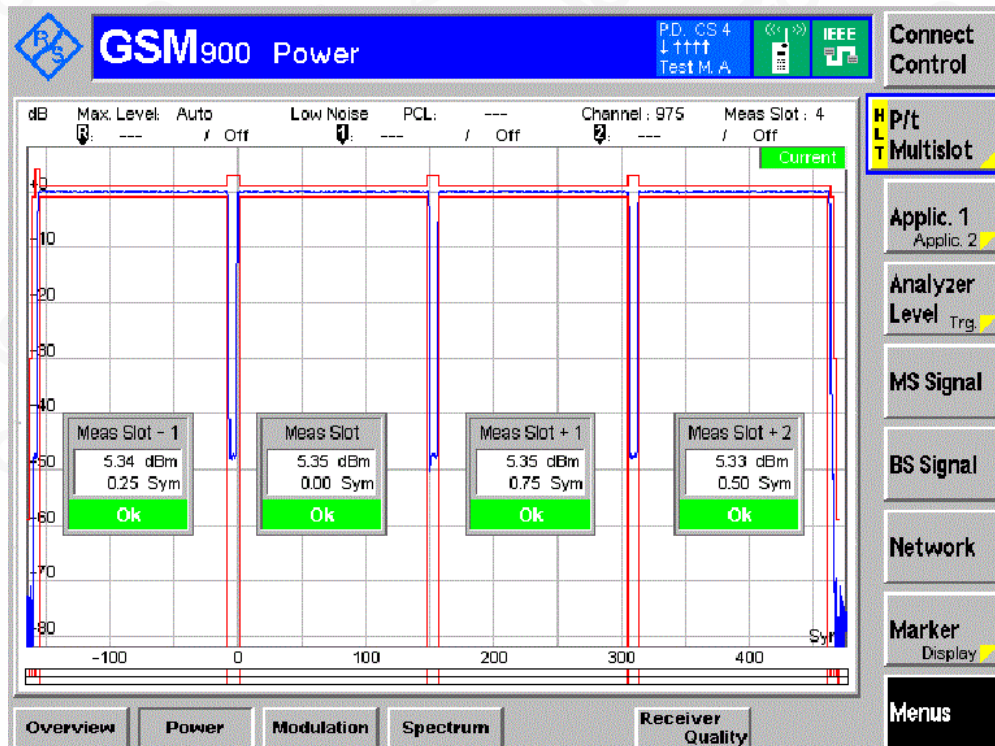


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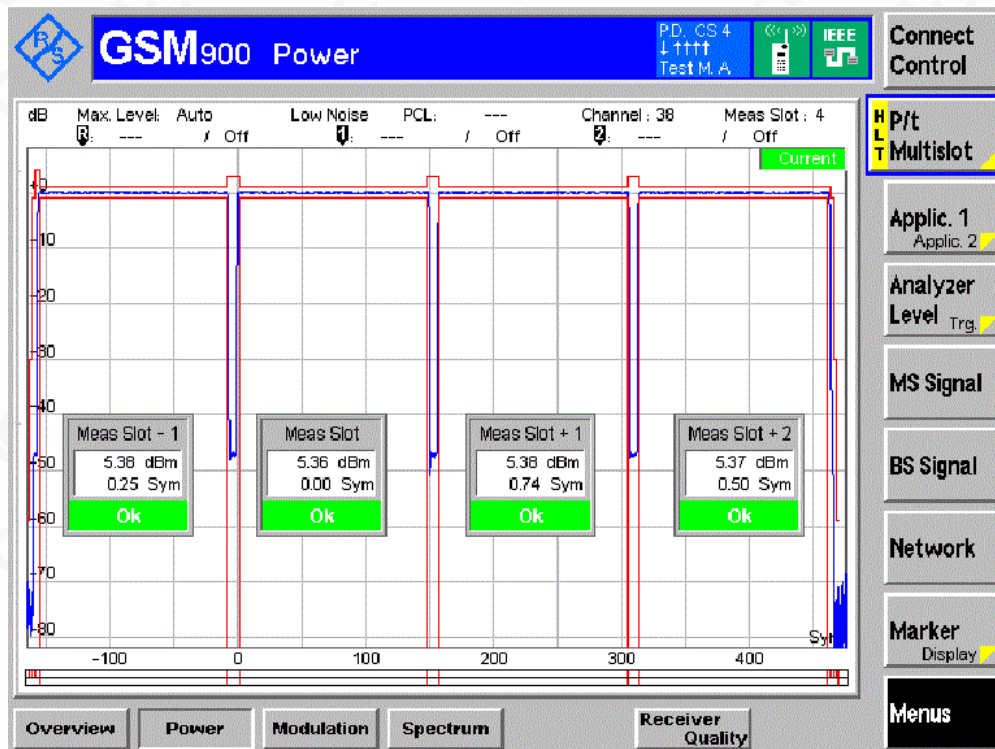
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Channel LCH PCL 19



Channel MCH PCL 19

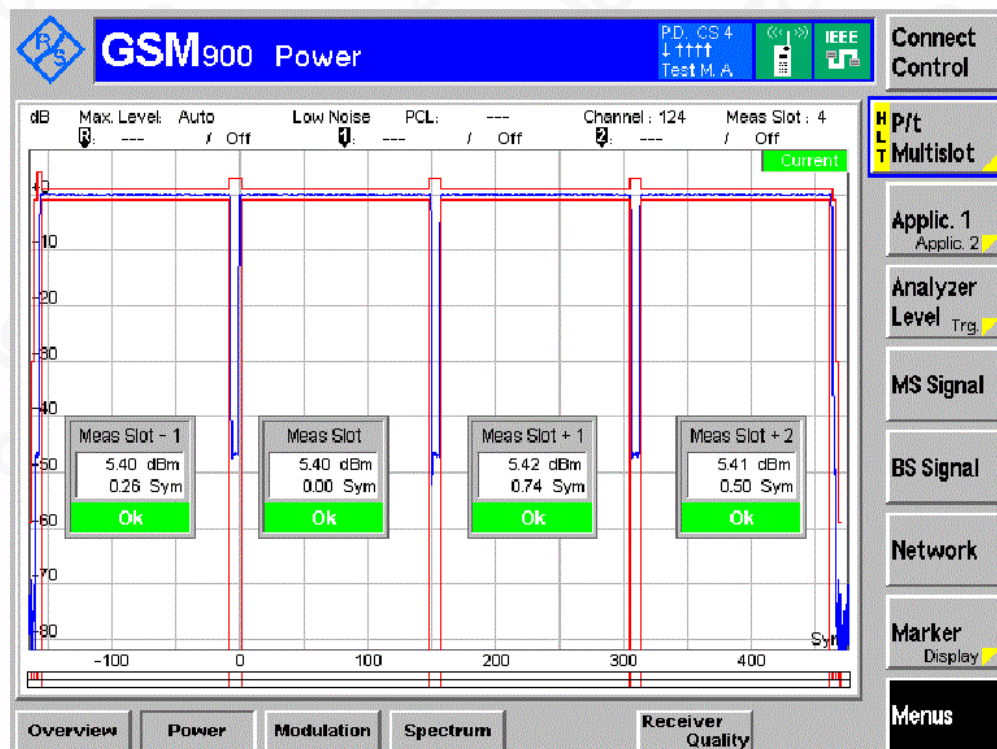


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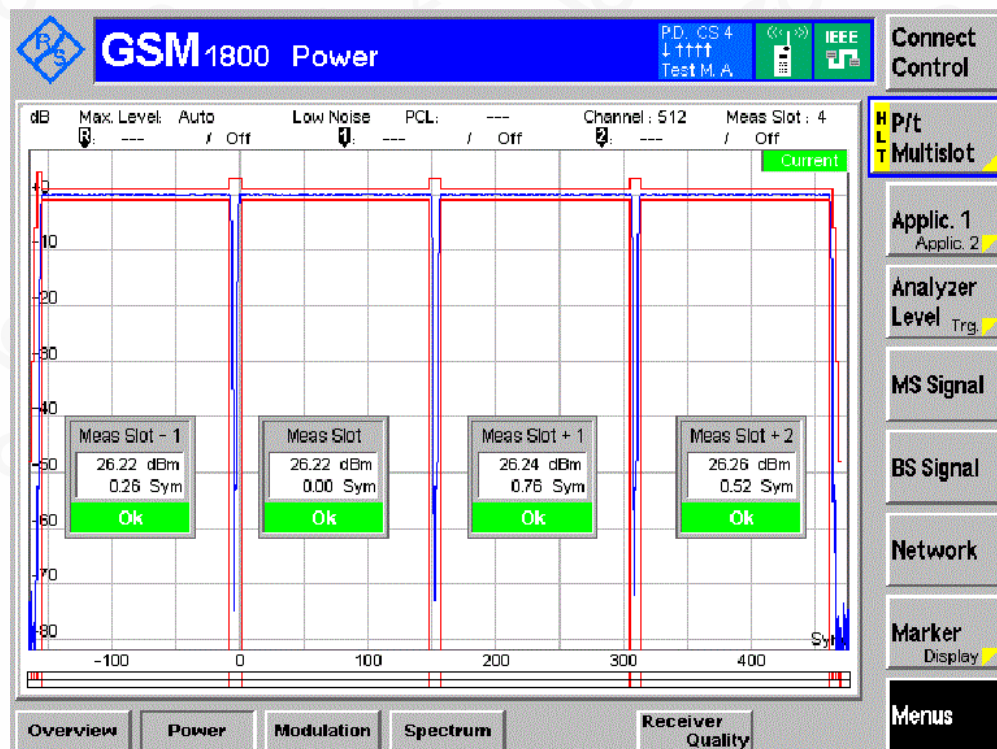
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Channel HCH PCL 19



DCS1800 TN,VN Channel LCH PCL 0

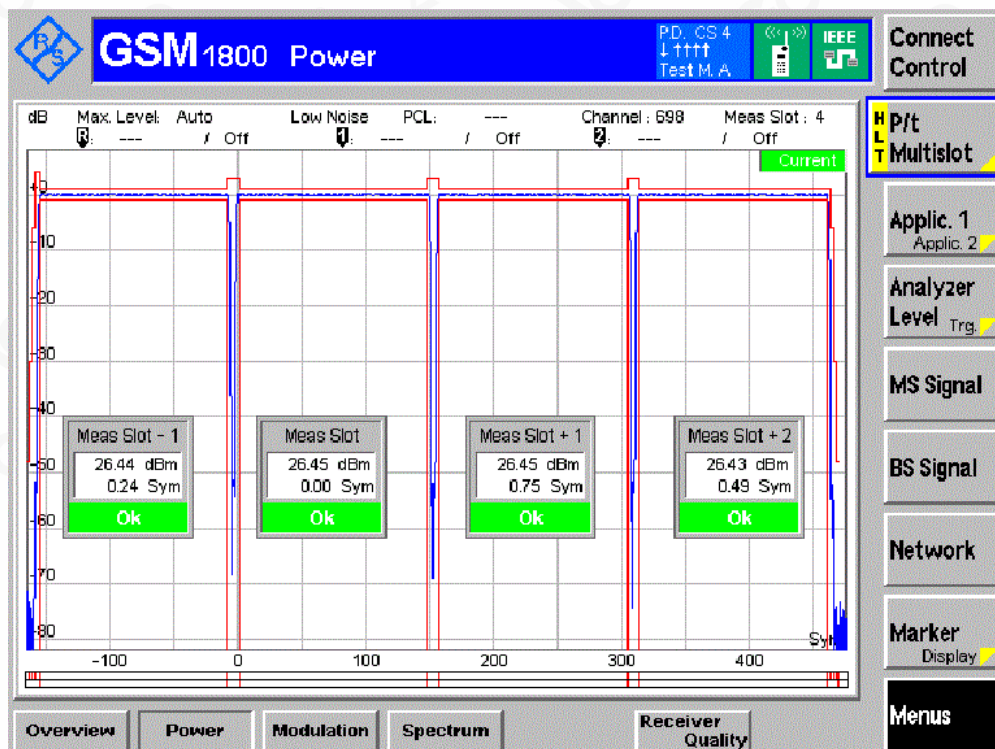


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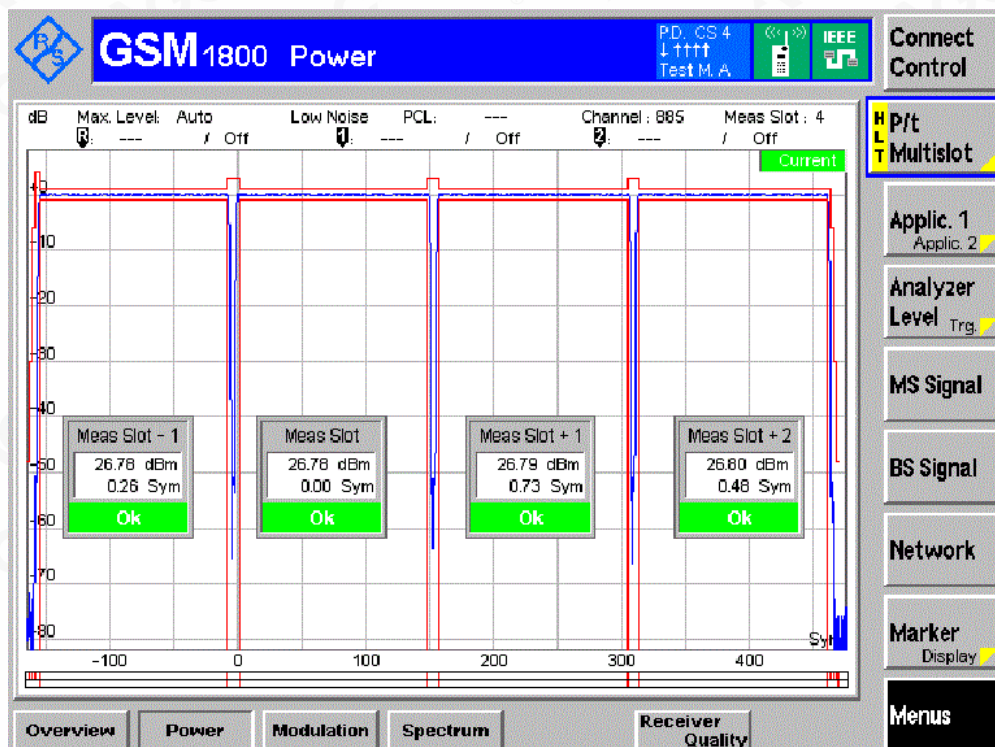
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Channel MCH PCL 0



Channel HCH PCL 0

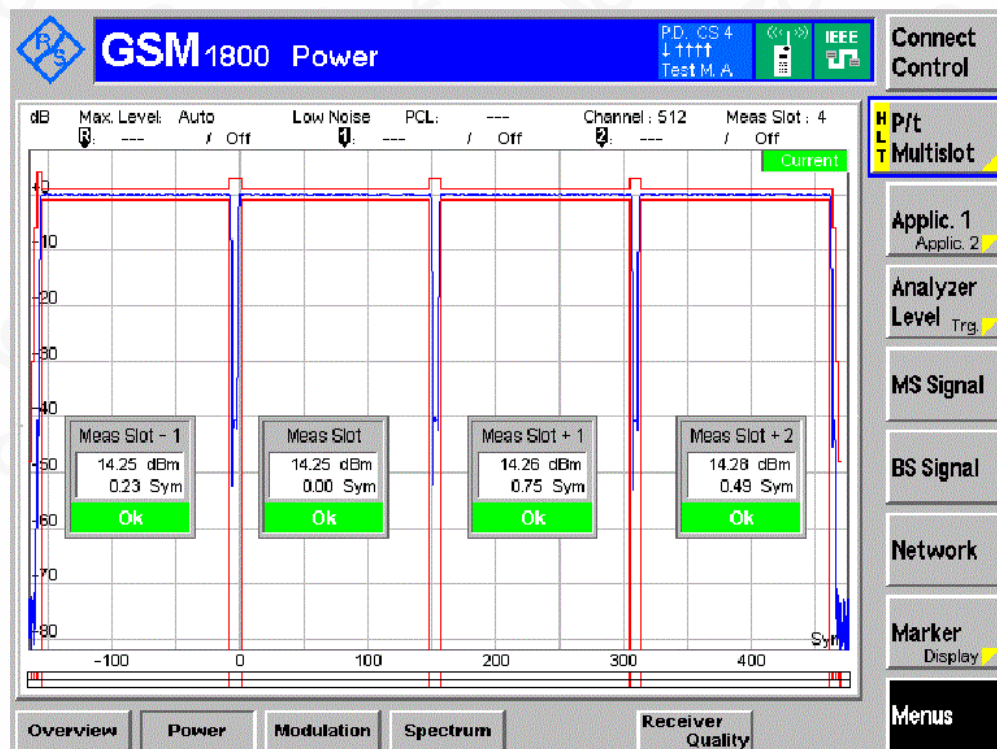


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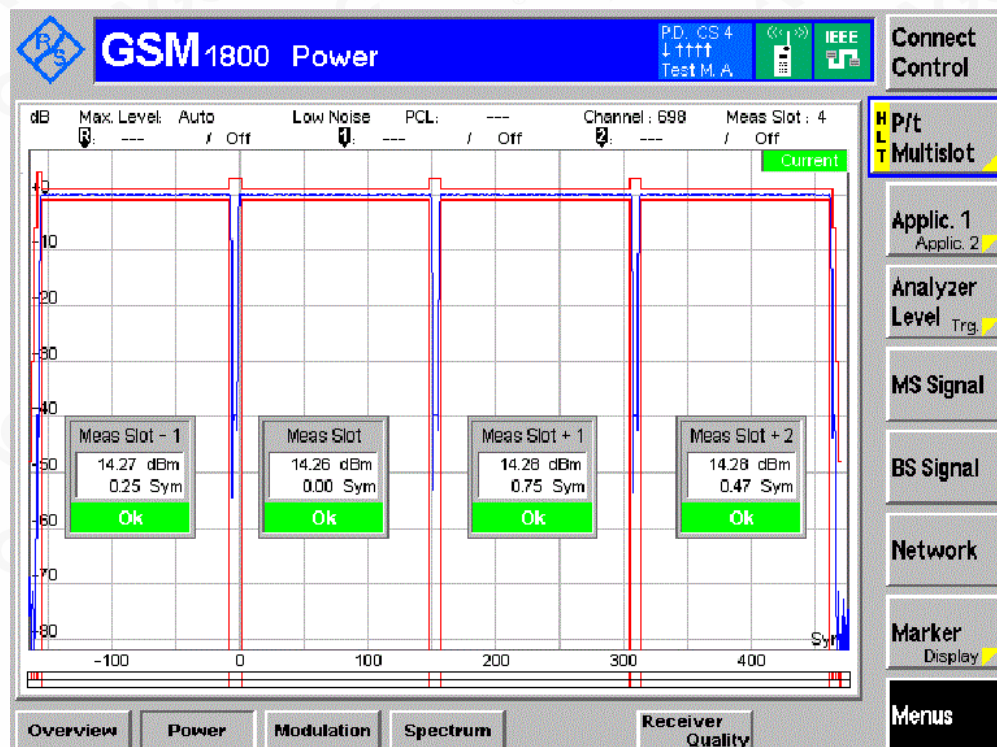
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Channel LCH PCL 8



Channel MCH PCL 8

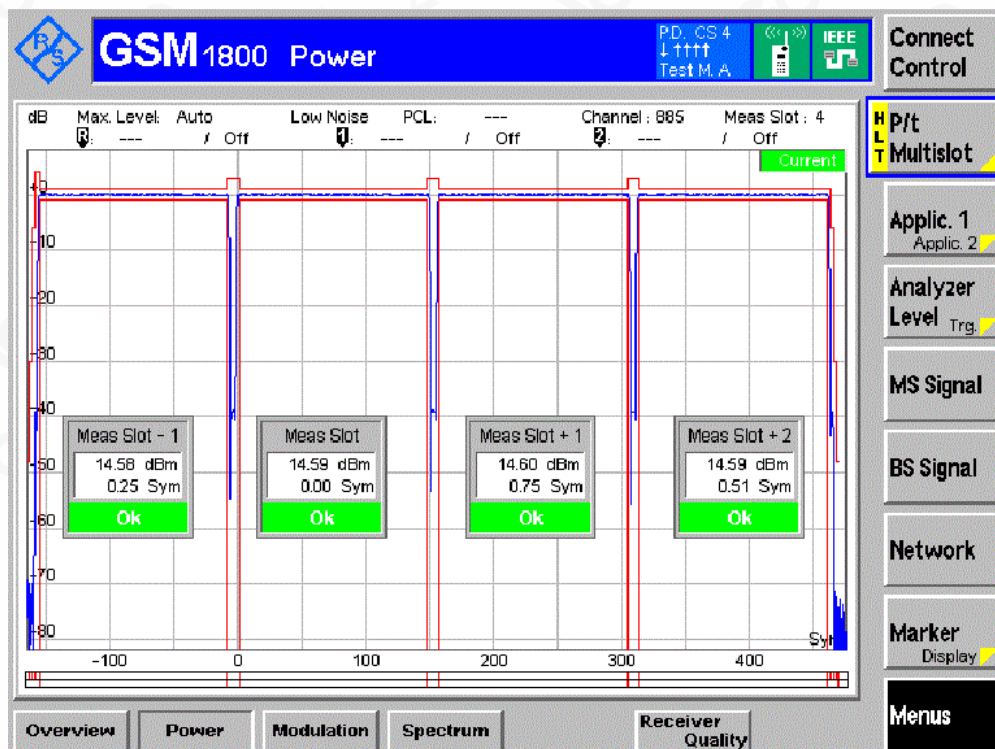


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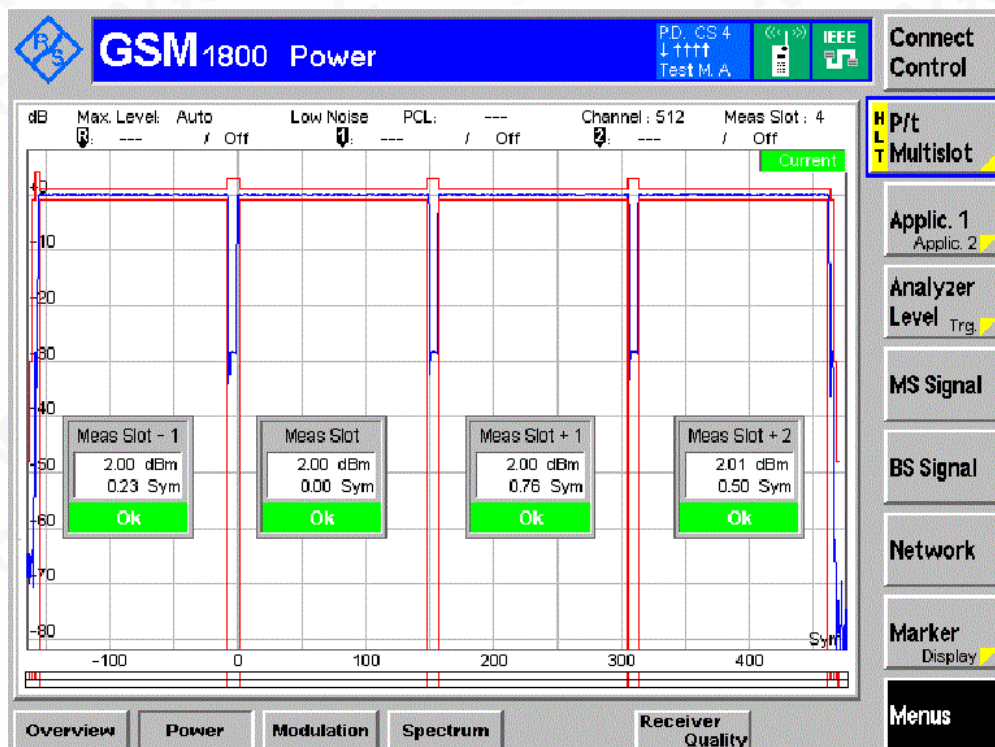
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Channel HCH PCL 8



Channel LCH PCL 15

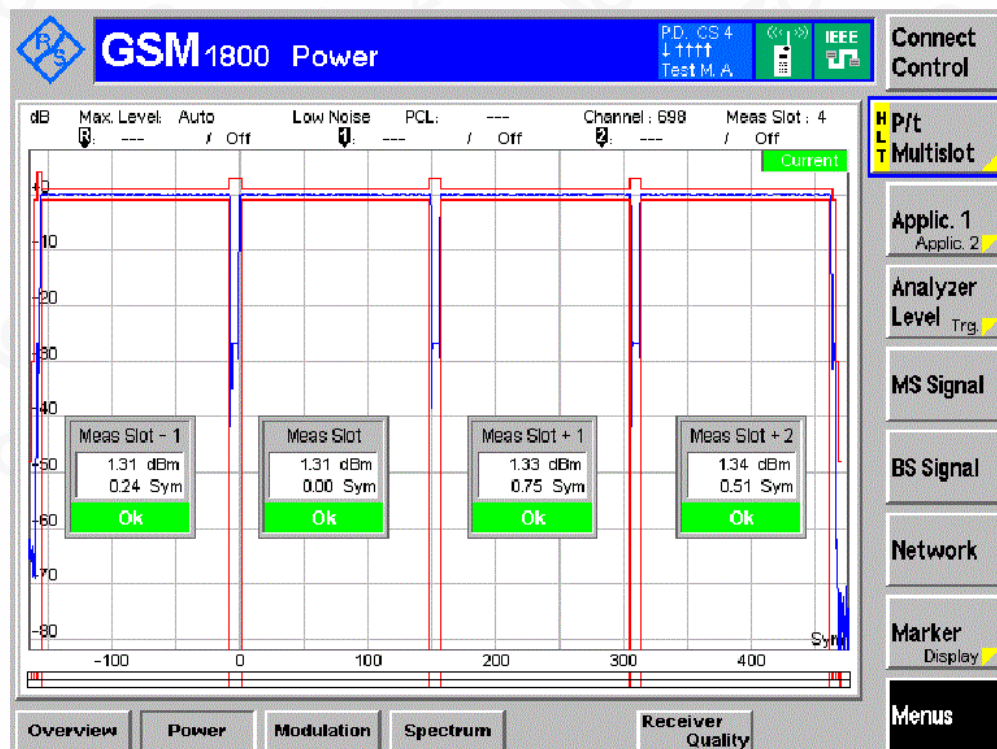


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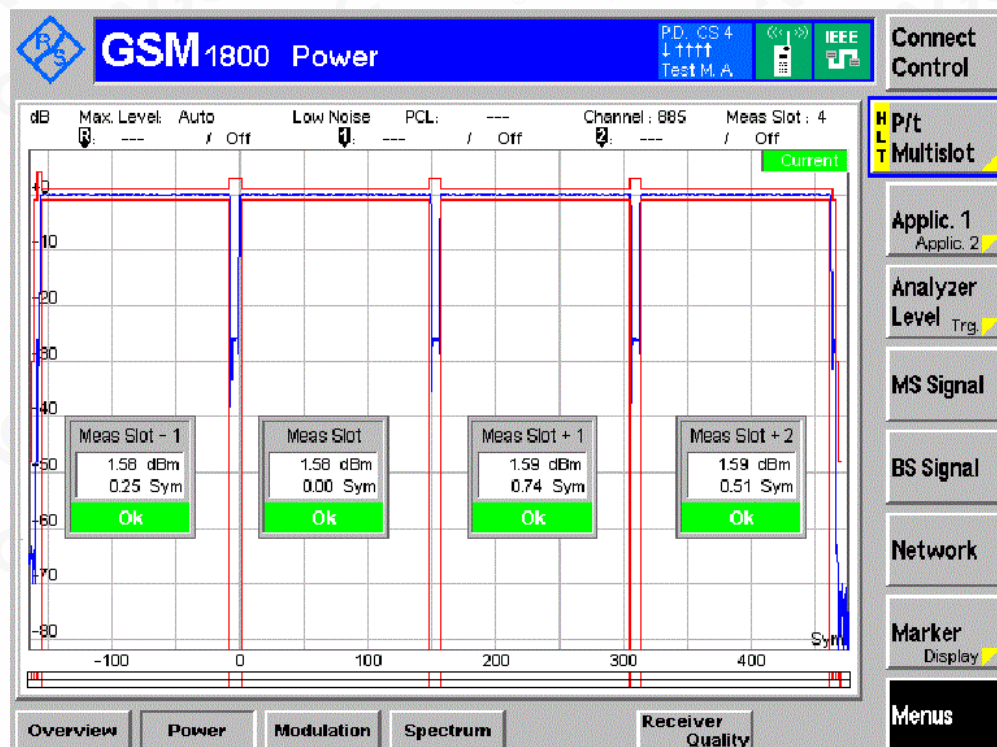
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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix G. Output RF spectrum in GPRS multislot configuration

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of follow:

Modulation& switch Spectrum	Power level	Result		
		Traffic Channels		
GSM900		LCH	MCH	HCH
TN,VN	5	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Modulation& switch Spectrum	Power level	Result		
		Traffic Channels		
DCS1800		LCH	MCH	HCH
TN,VN	0	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

Graphs of output RF spectrum in GPRS multislot configuration

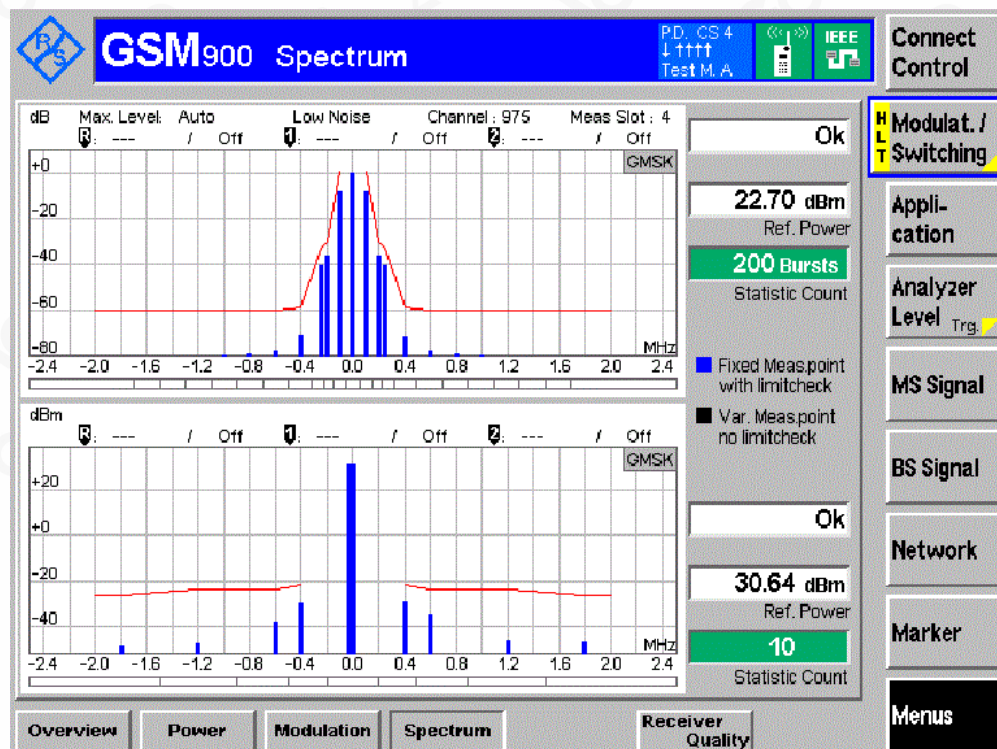
GSM 900 TN,VN

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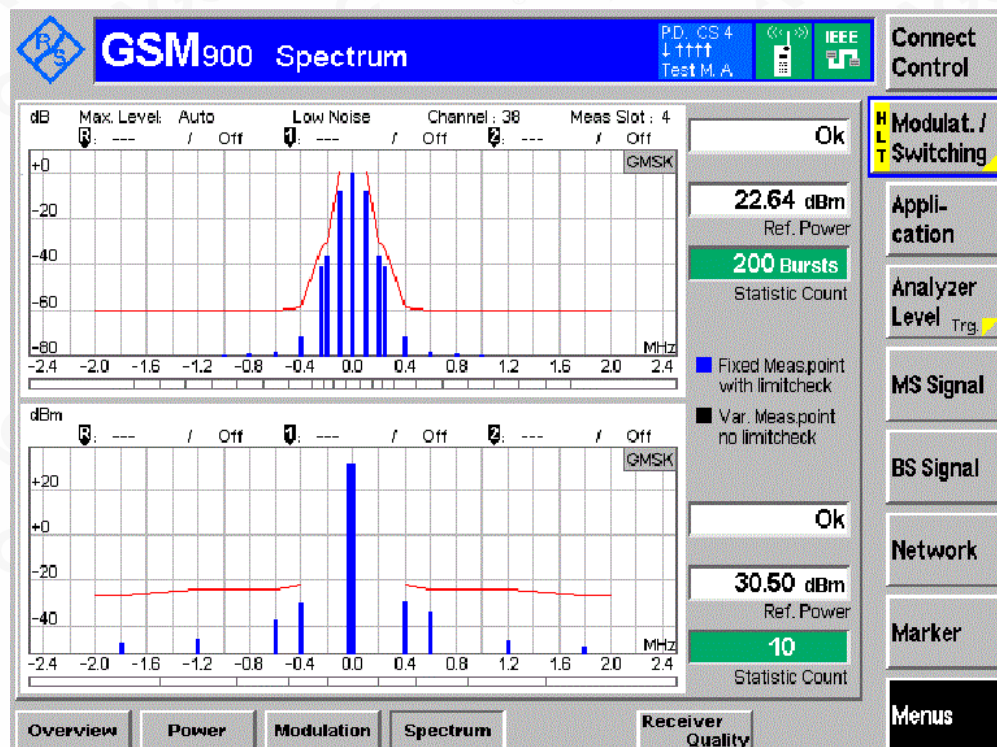
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Channel LCH PCL 5



Channel MCH PCL 5

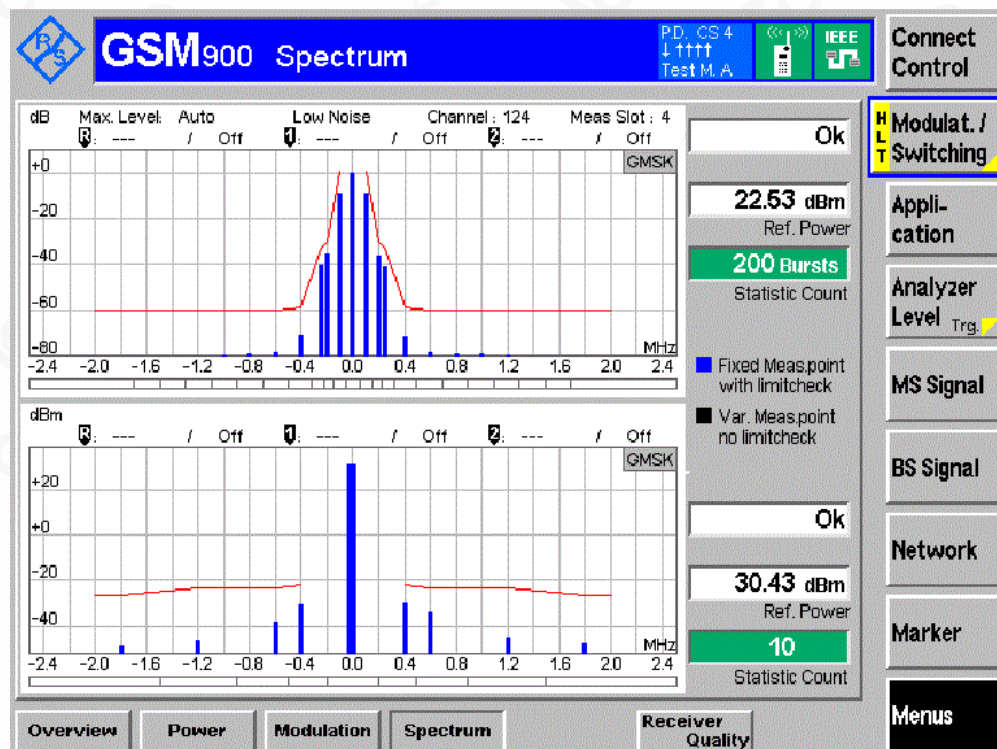


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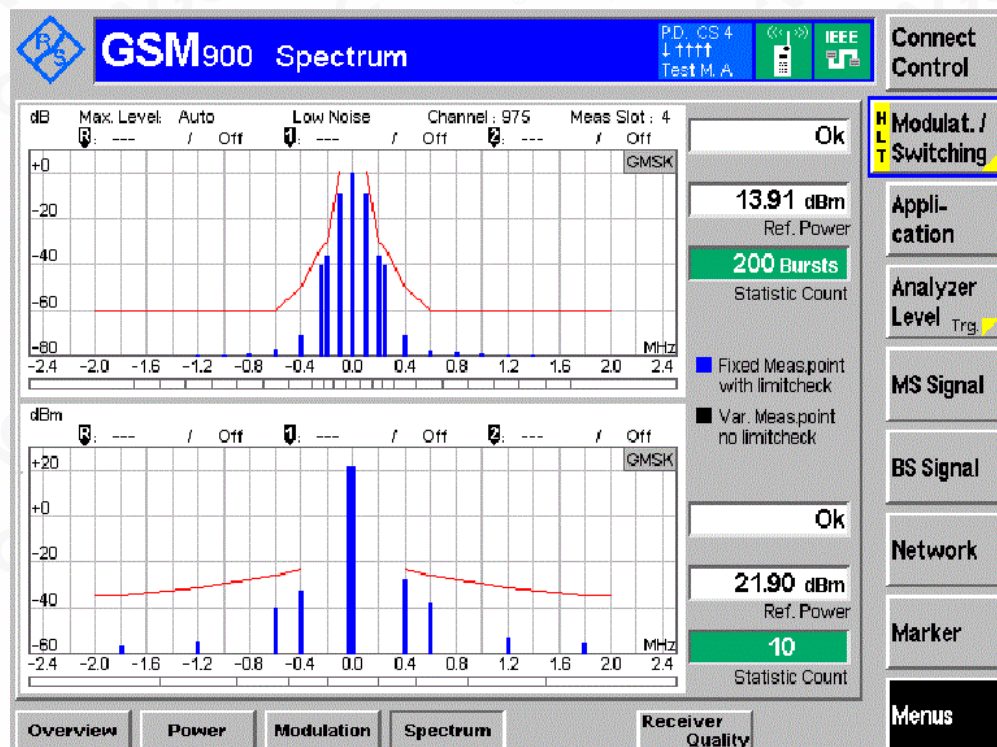
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Channel HCH PCL 5



Channel LCH PCL 12

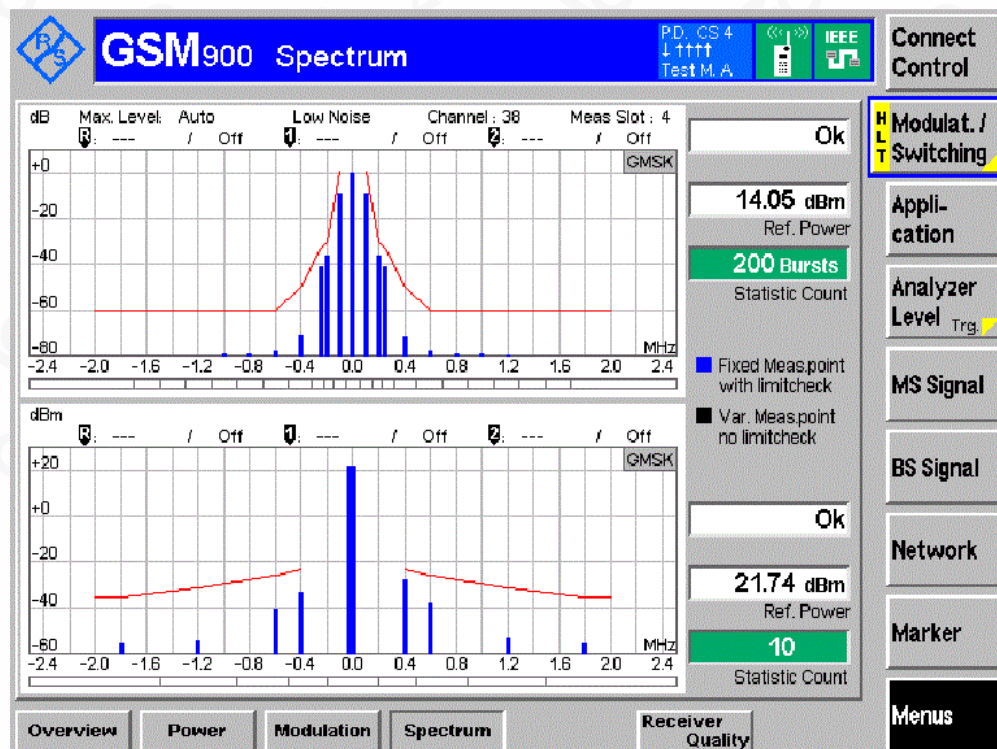


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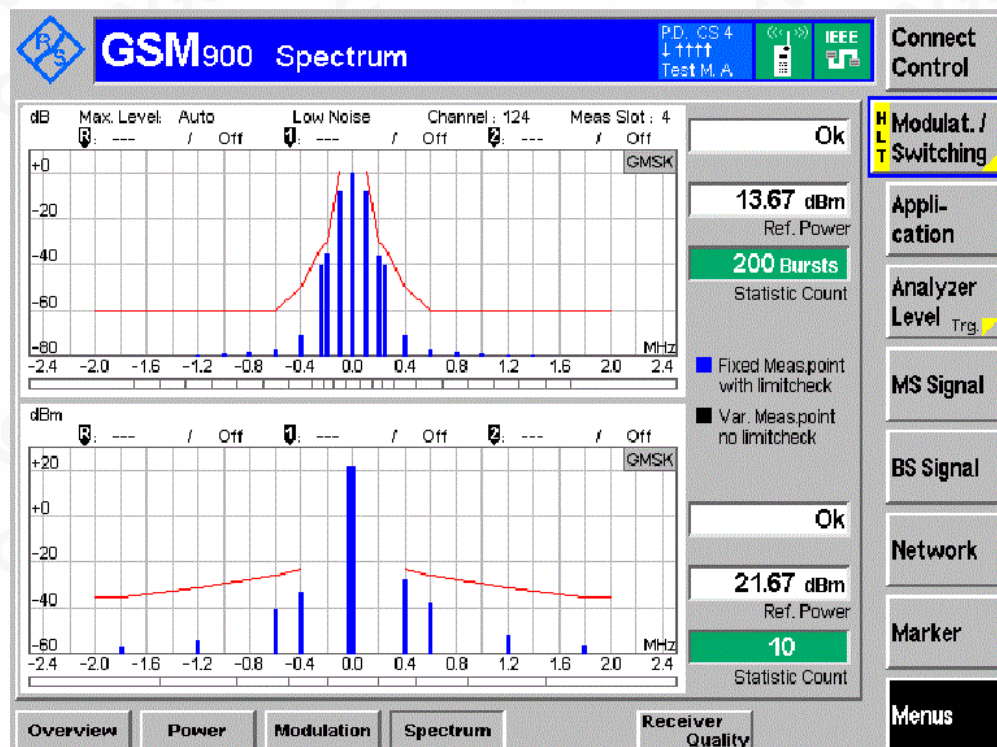
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Channel MCH PCL 12



Channel HCH PCL 12

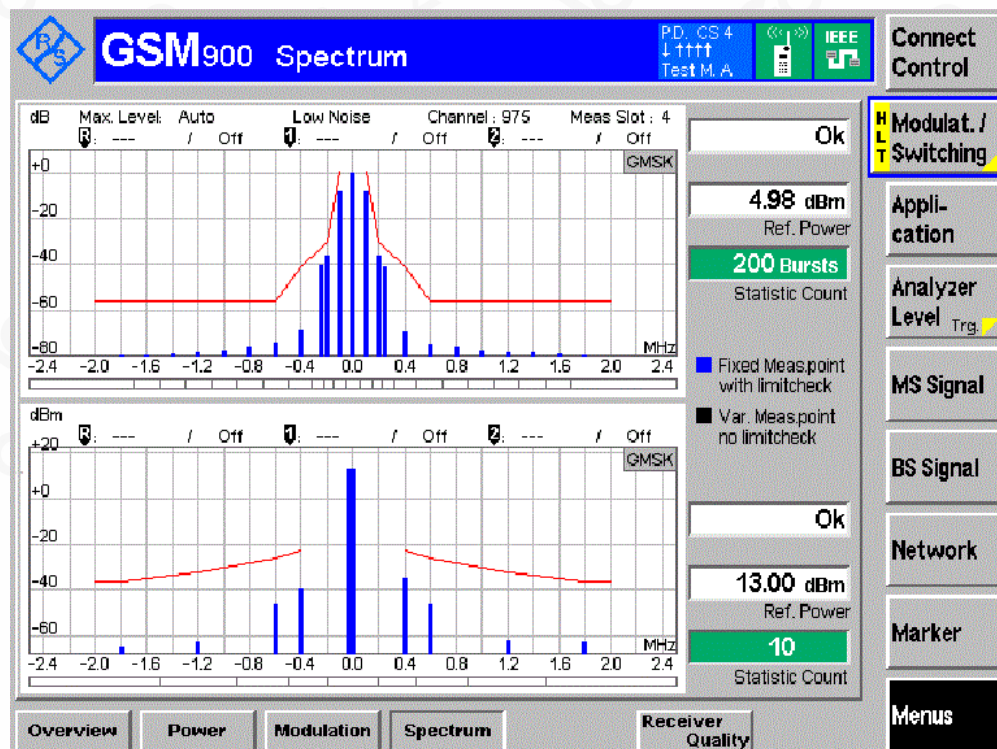


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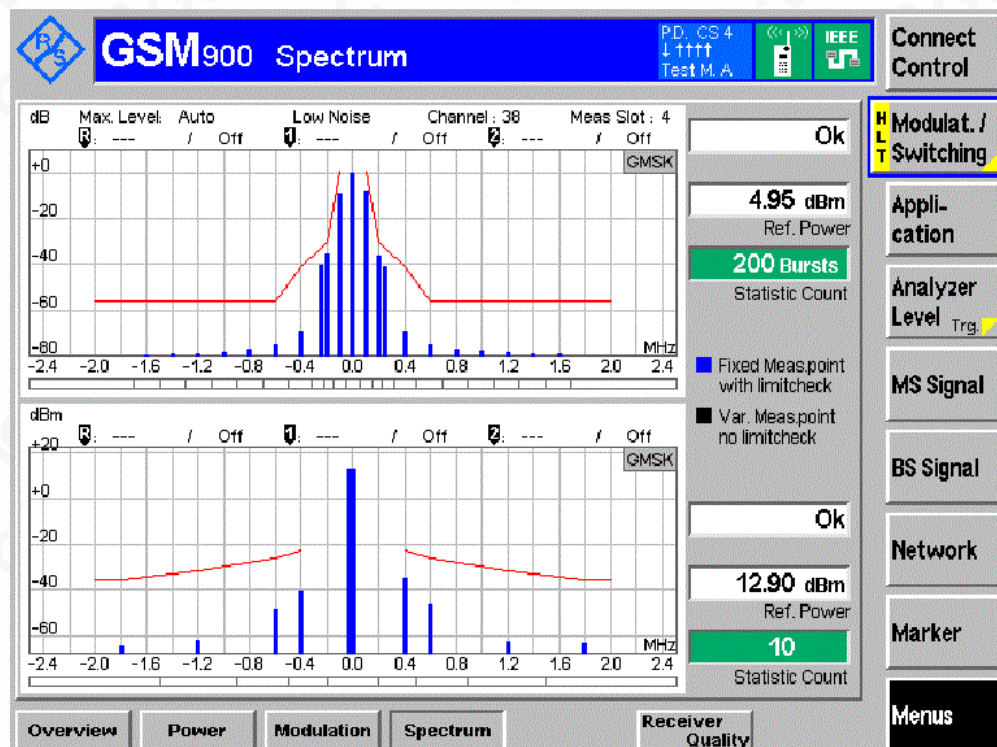
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Channel LCH PCL 19



Channel MCH PCL 19

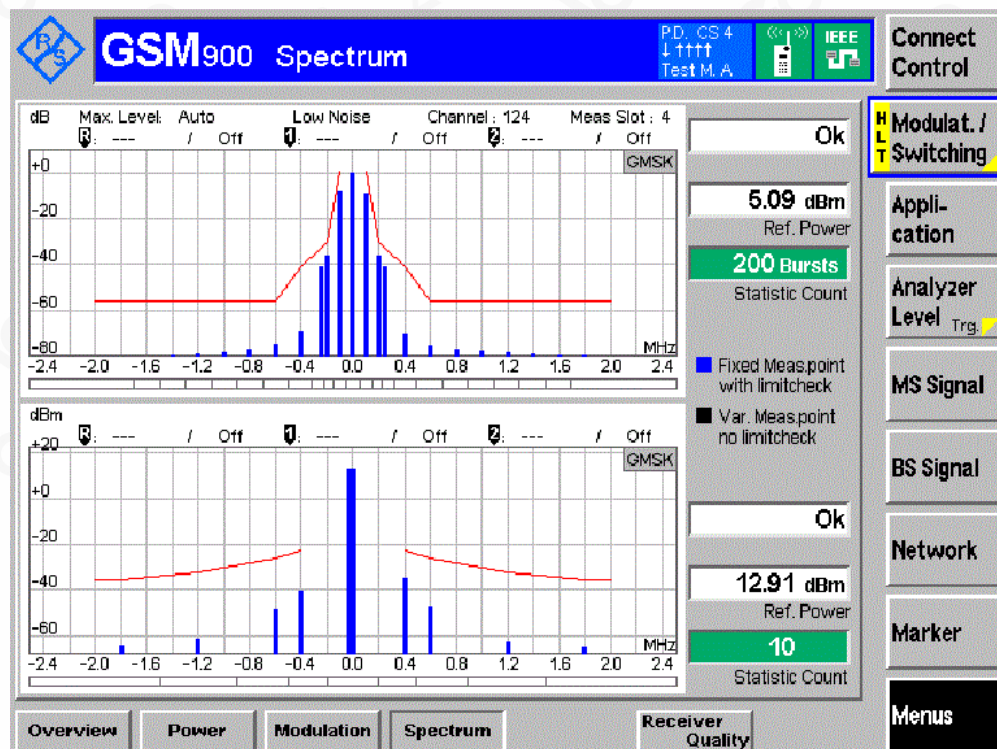


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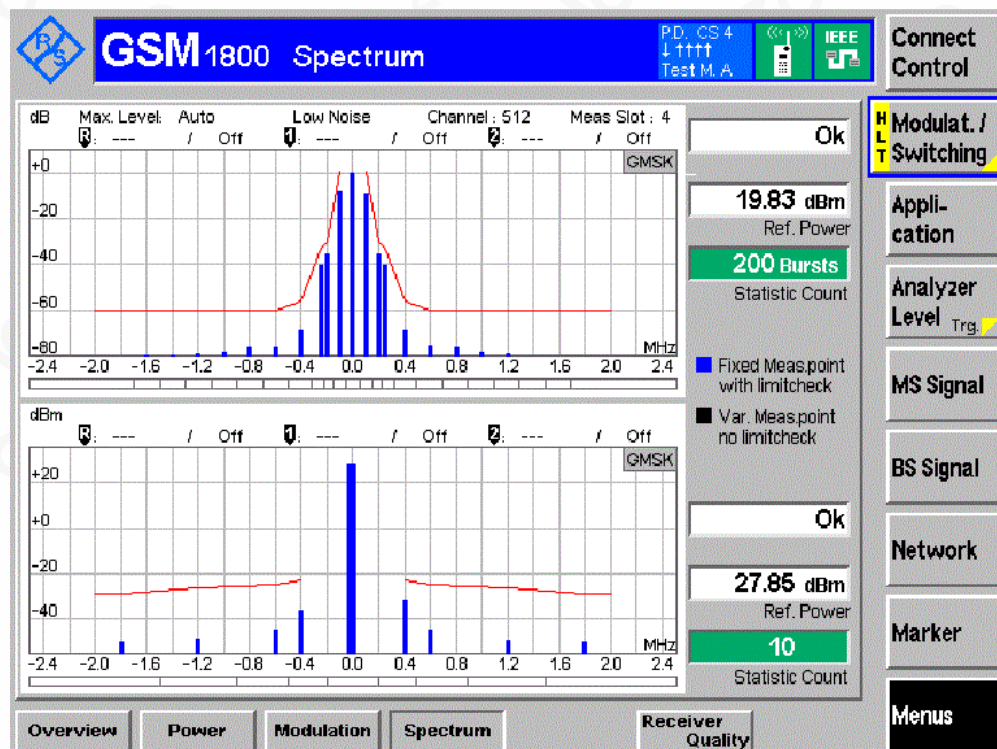


Channel HCH PCL 19



DCS1800 TN,VN

Channel LCH PCL 0

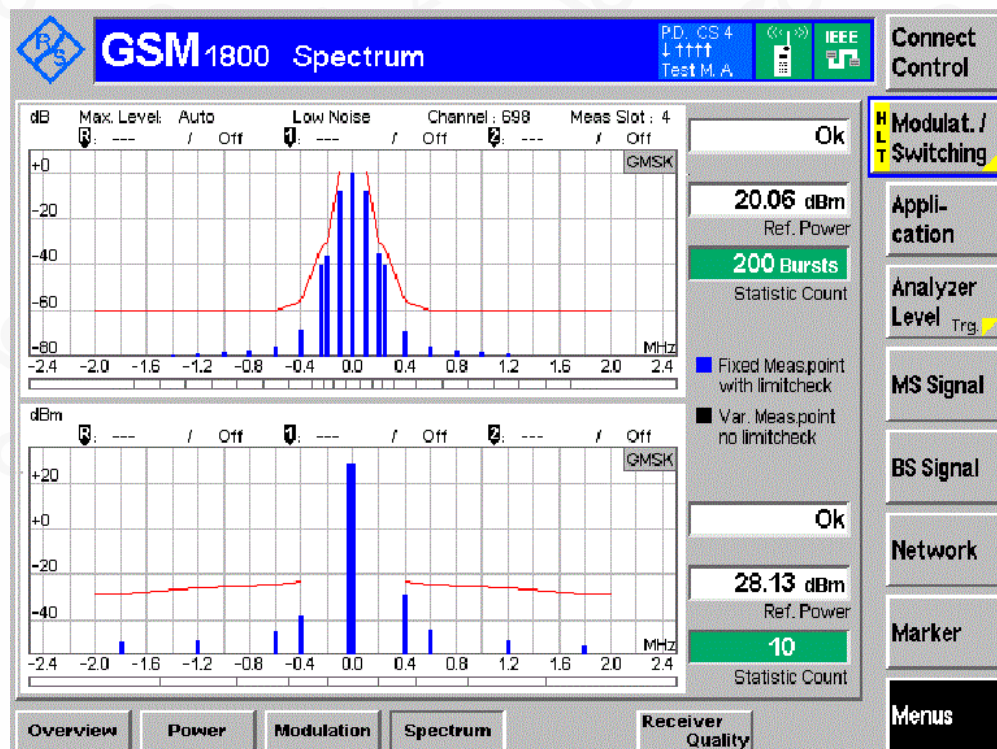


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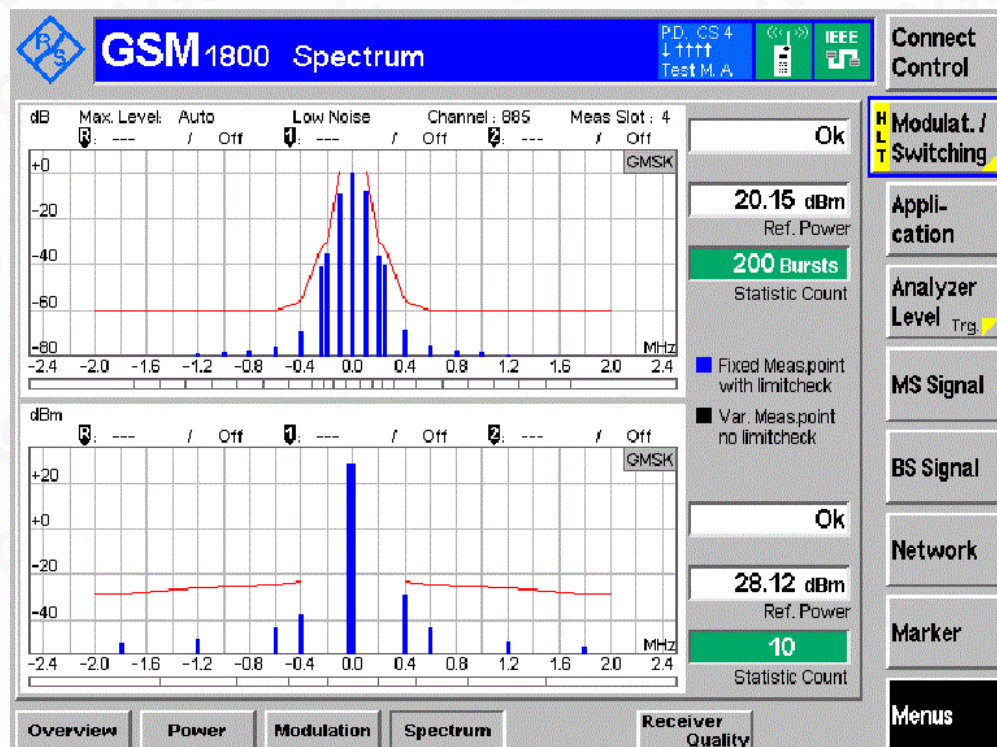
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Channel MCH PCL 0



Channel HCH PCL 0

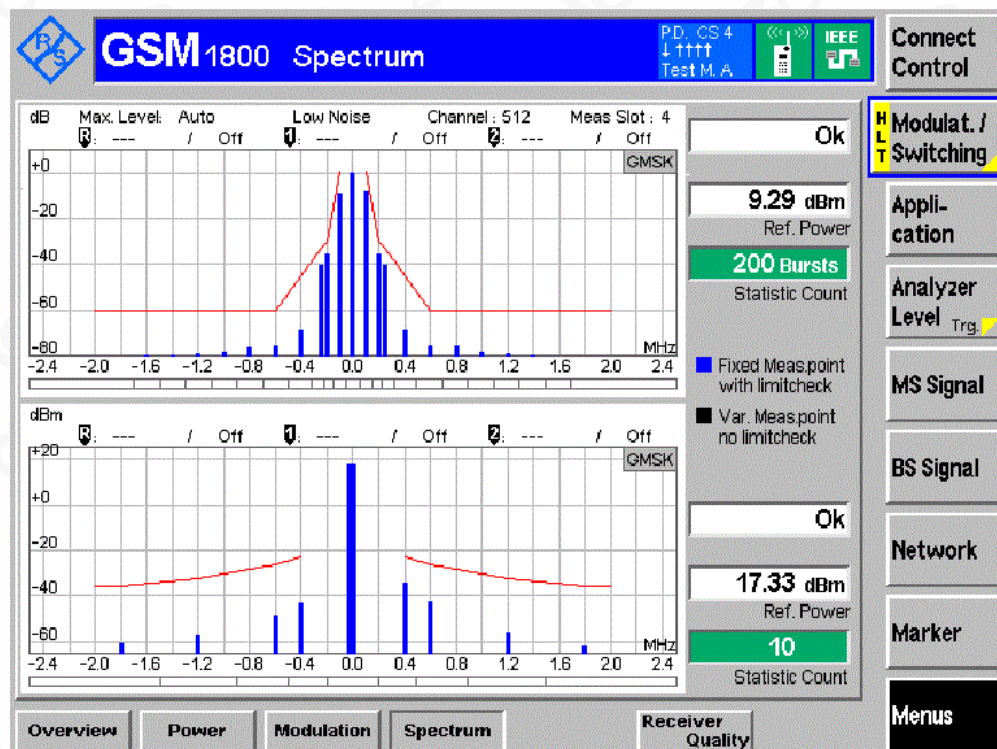


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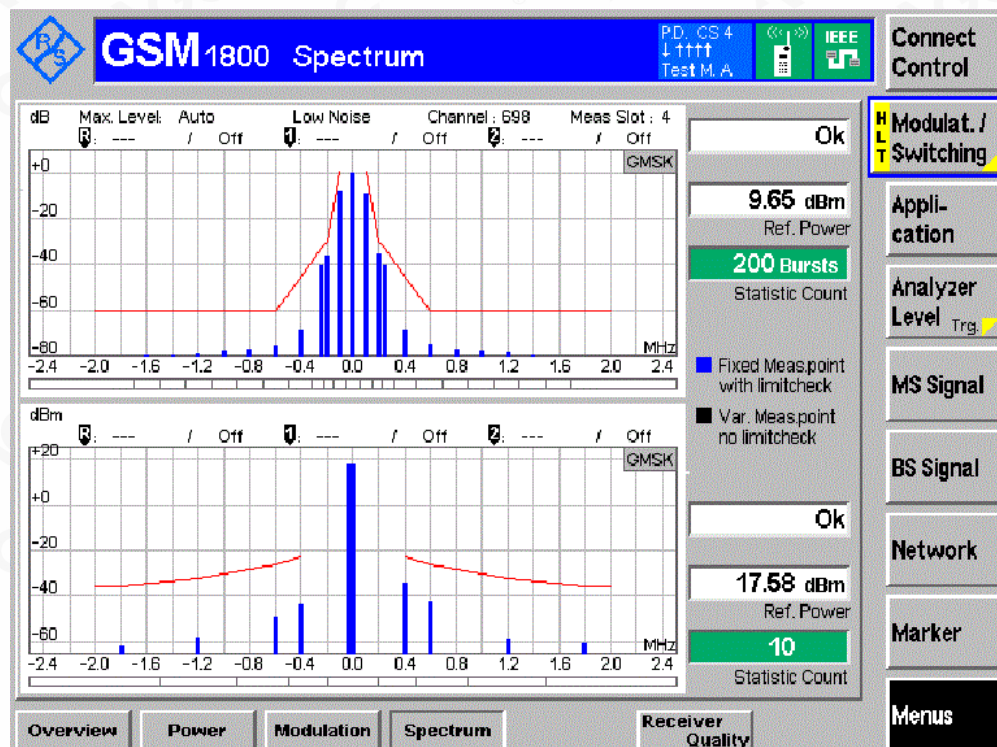
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Channel LCH PCL 8



Channel MCH PCL 8

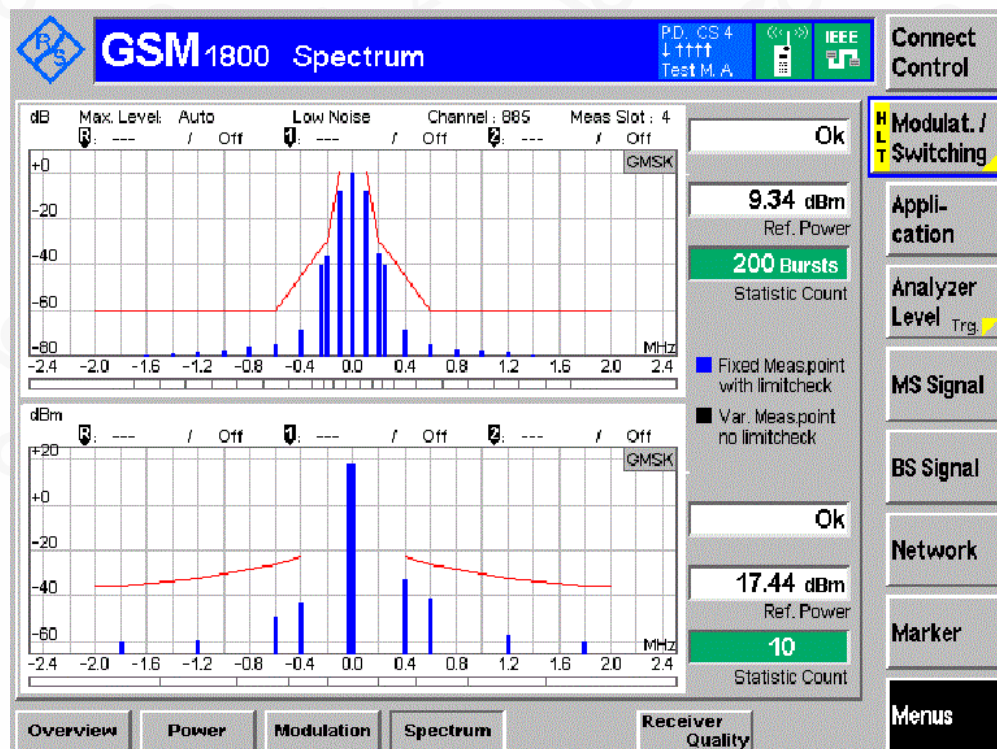


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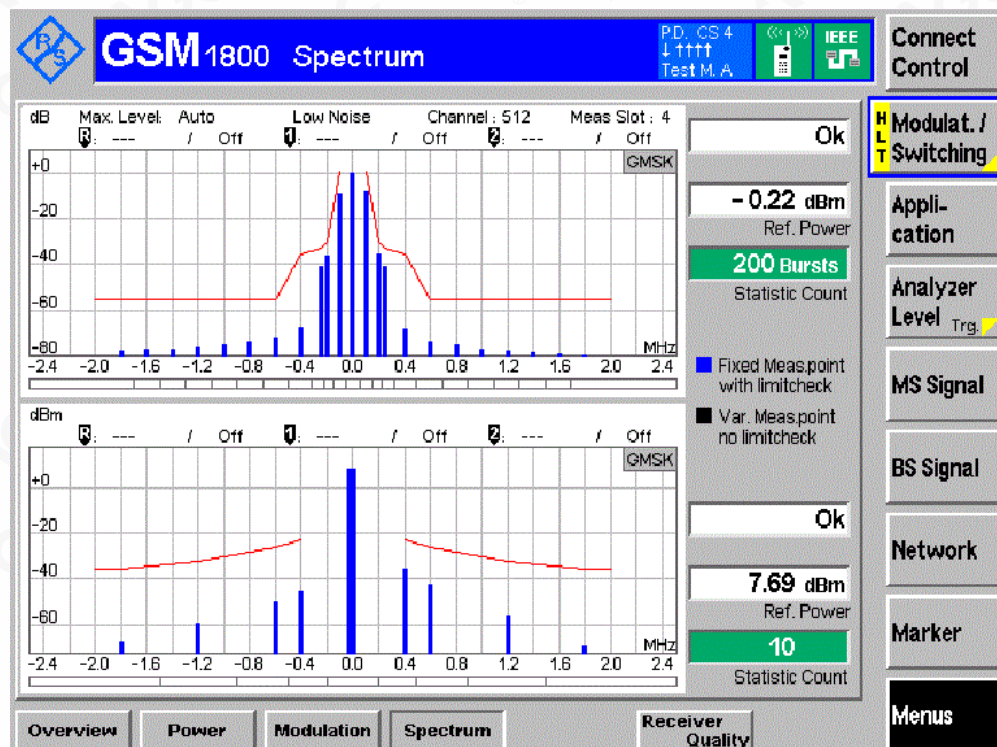
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Channel HCH PCL 8



Channel LCH PCL 15

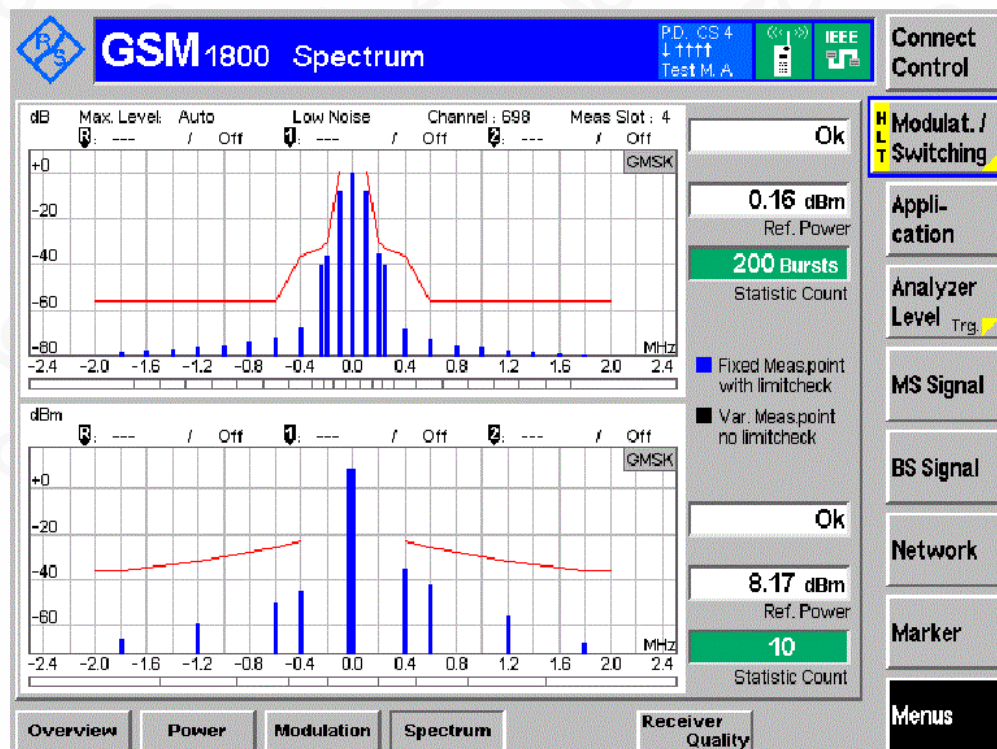


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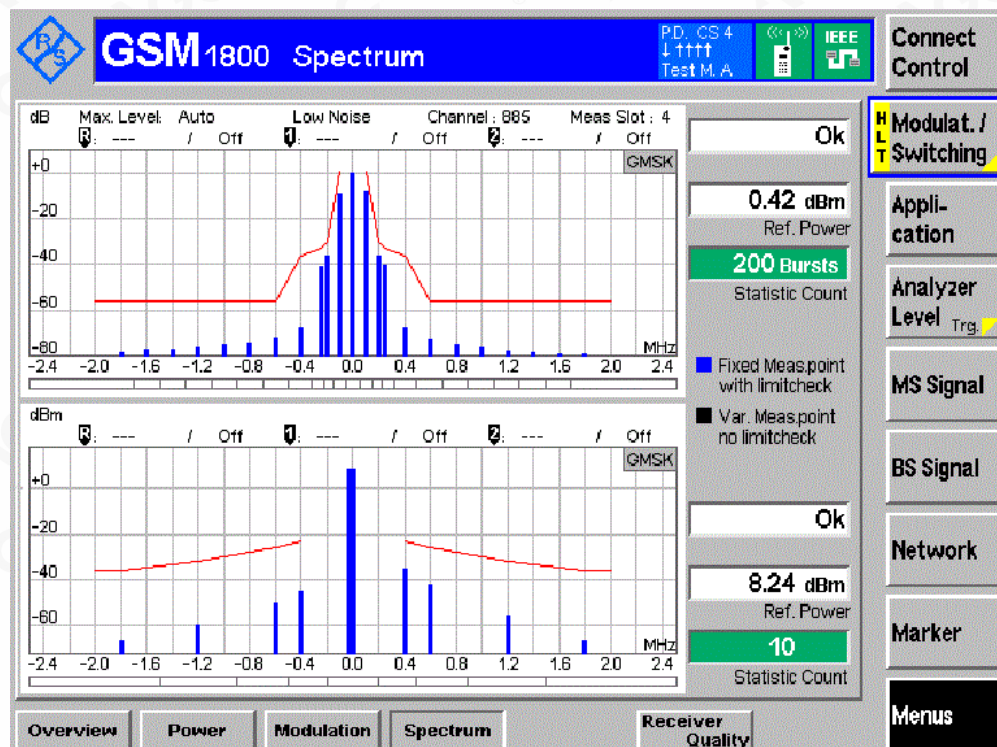
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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix H. Conducted spurious emissions - MS allocated a channel

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of follow:

Conducted spurious emissions	GSM900;VN			
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
100kHz~50MHz	10k	-36	-47.21	PASS
50MHz~500MHz	100k	-36	-50.41	PASS
500MHz~850MHz	3M	-36	-39.15	PASS
850MHz~860MHz	1M	-36	-38.73	PASS
860MHz~870MHz	300k	-36	-49.08	PASS
870MHz~880MHz	100k	-36	-53.82	PASS
915MHz~925MHz	100k	-36	-56.34	PASS
960MHz~1GHz	3M	-36	-41.16	PASS
1GHz~1805MHz	3M	-30	-35.40	PASS
1880MHz~12.75GHz	3M	-30	-31.81	PASS
896.6MHz~900.8MHz	30K	-36	-59.26	PASS
904.4MHz~908.6MHz	30K	-36	-60.08	PASS
880MHz~896.6MHz	100K	-36	-54.11	PASS
908.6MHz~915MHz	100K	-36	-56.19	PASS

Conducted spurious emissions	DCS1800;VN			
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
100kHz~50MHz	10k	-36	-49.84	PASS
50MHz~500MHz	100k	-36	-51.05	PASS
500MHz~925MHz	3M	-36	-40.59	PASS
960MHz~1GHz	3M	-36	-41.82	PASS
1GHz~1680MHz	3M	-30	-39.92	PASS
1680MHz~1690MHz	1M	-30	-44.21	PASS
1690MHz~1700MHz	300k	-30	-49.91	PASS
1700MHz~1710MHz	100k	-30	-55.39	PASS
1785MHz~1795MHz	100K	-30	-51.10	PASS
1795MHz~1805MHz	300k	-30	-46.85	PASS
1880MHz~12.75GHz	3M	-30	-32.77	PASS
1741.4MHz~1745.6MHz	30K	-36	-57.38	PASS
1749.2MHz~1753.4MHz	30K	-36	-57.13	PASS
1710MHz~1741.4MHz	100K	-36	-51.90	PASS
1753.4MHz~1785MHz	100K	-36	-51.49	PASS

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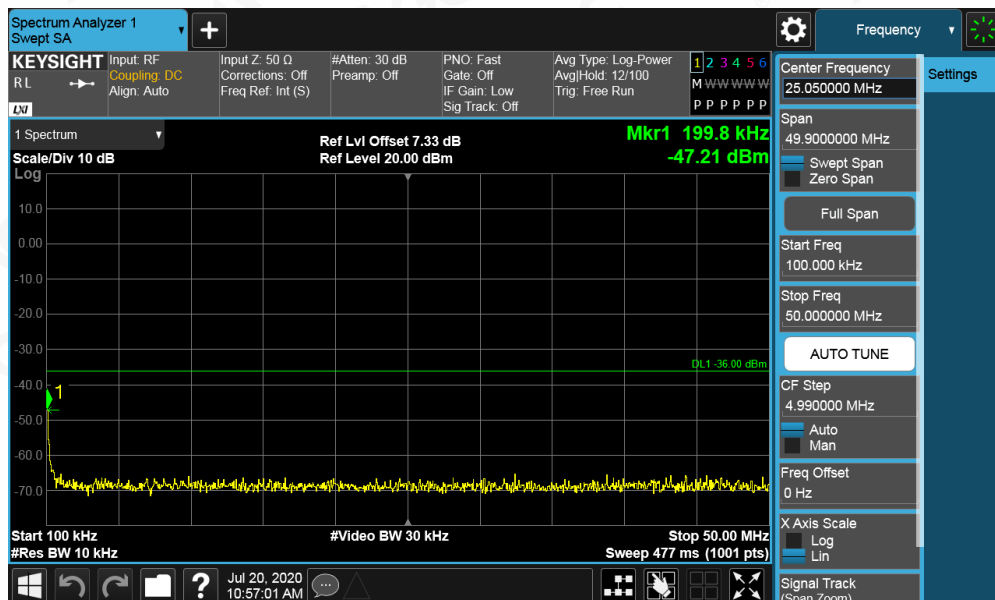
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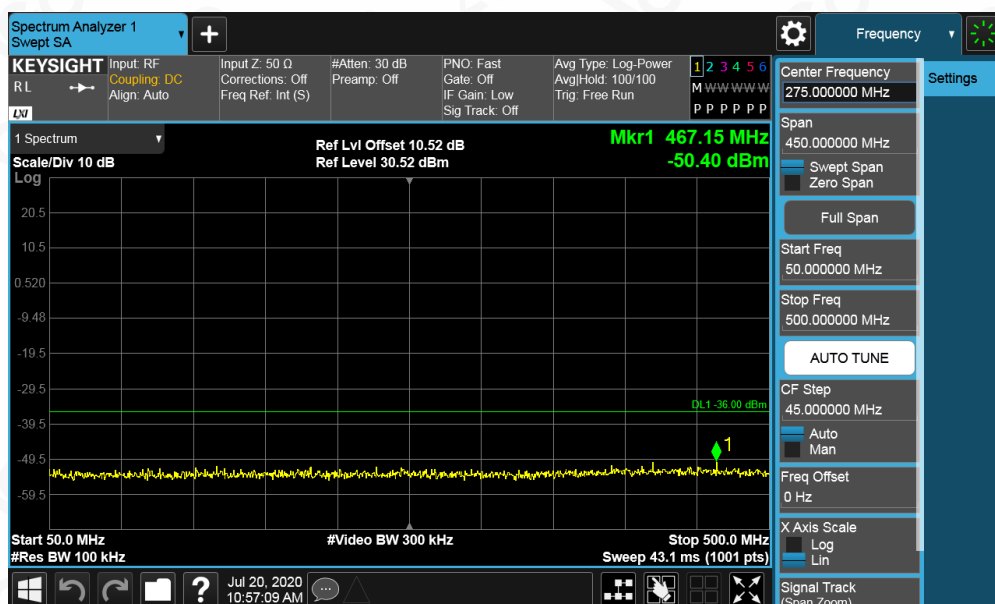
Graphs of conducted spurious emission-MS allocated a channel

GSM900: channel MCH VN

100kHz~50MHz



50MHz~500MHz

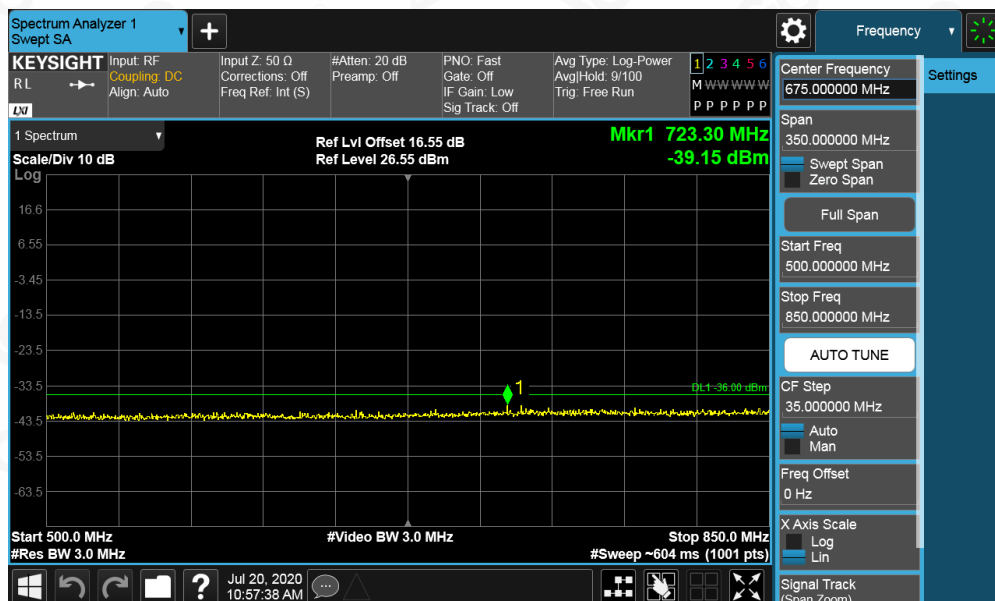


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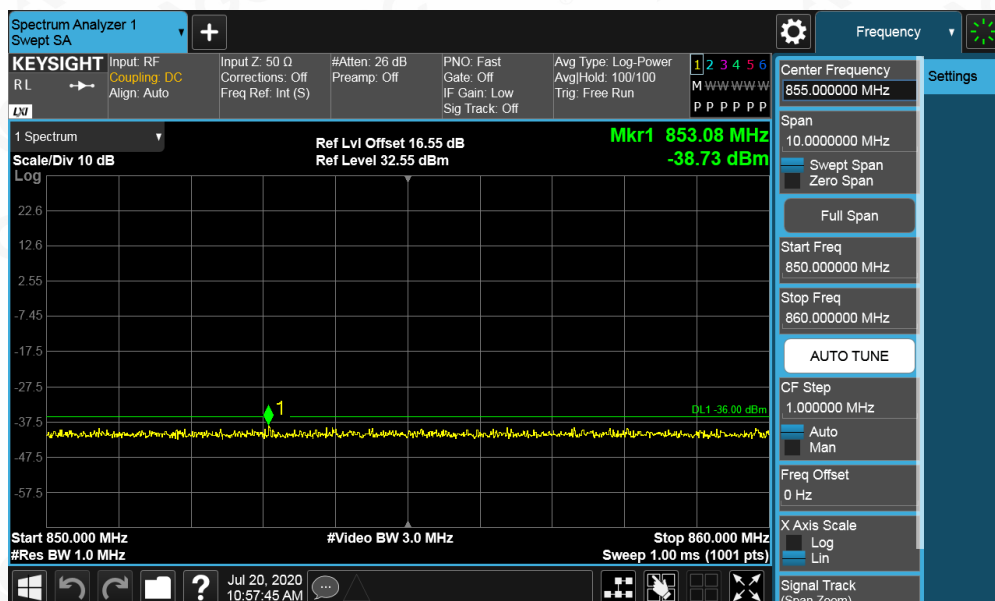
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500MHz~850MHz



850MHz~860MHz

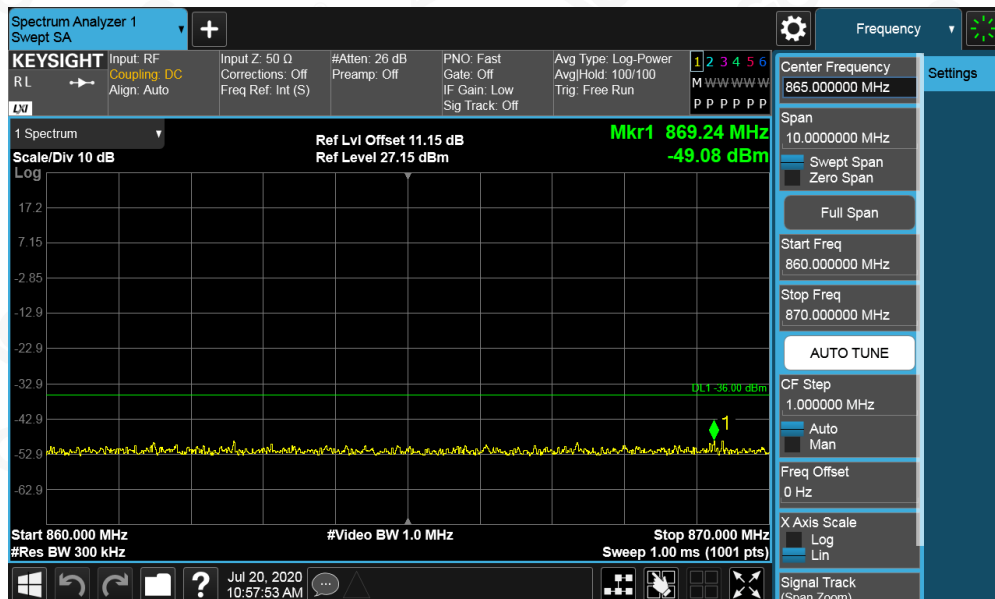


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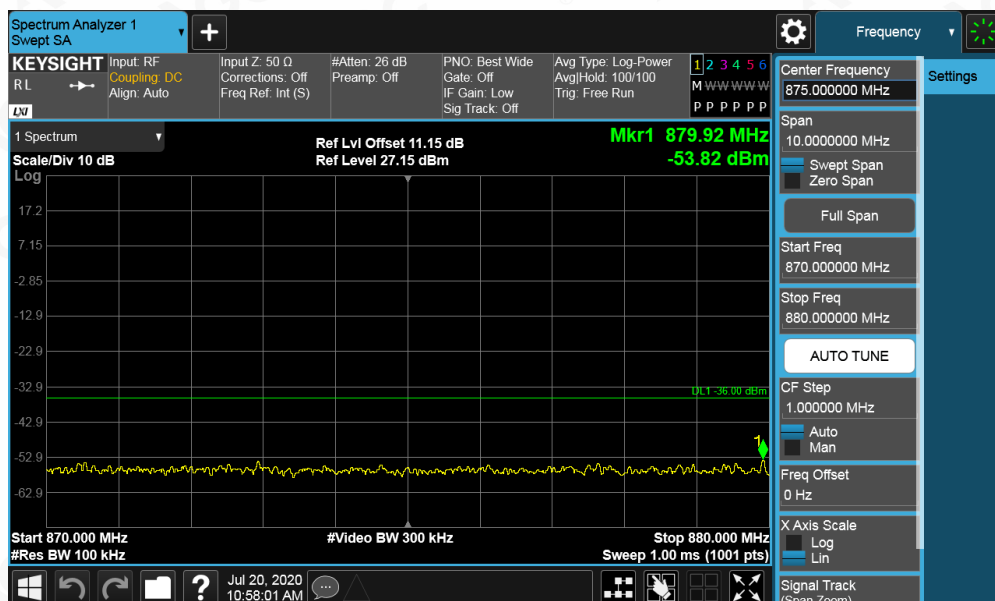
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860MHz~870MHz



870MHz~880MHz

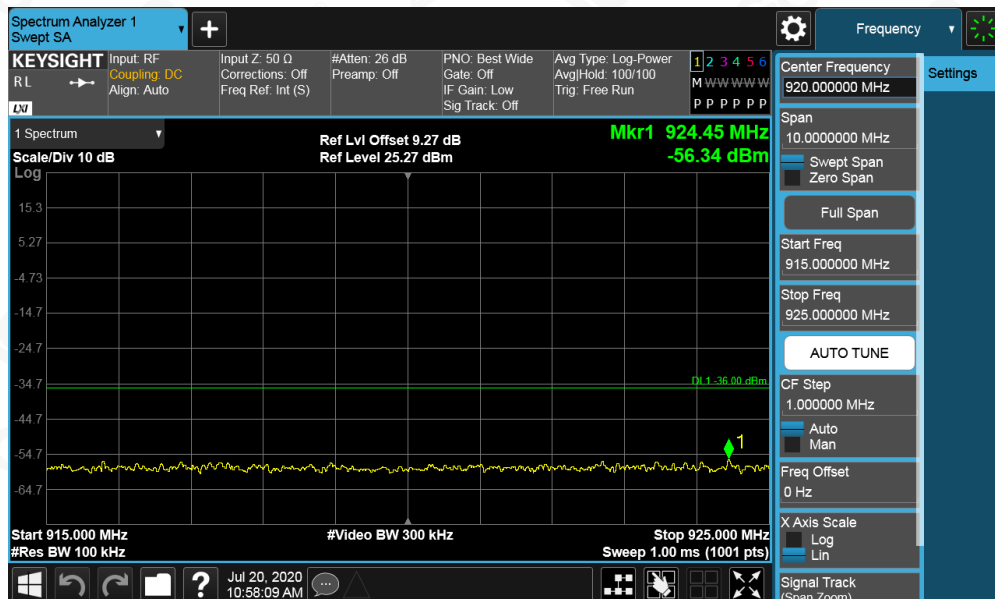


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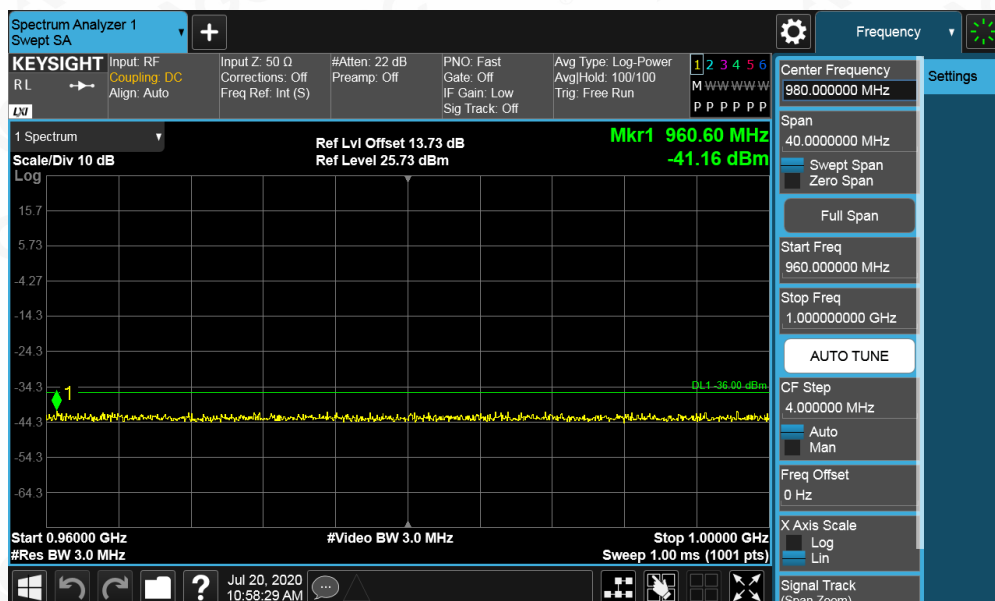
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915MHz~925MHz



960MHz~1GHz

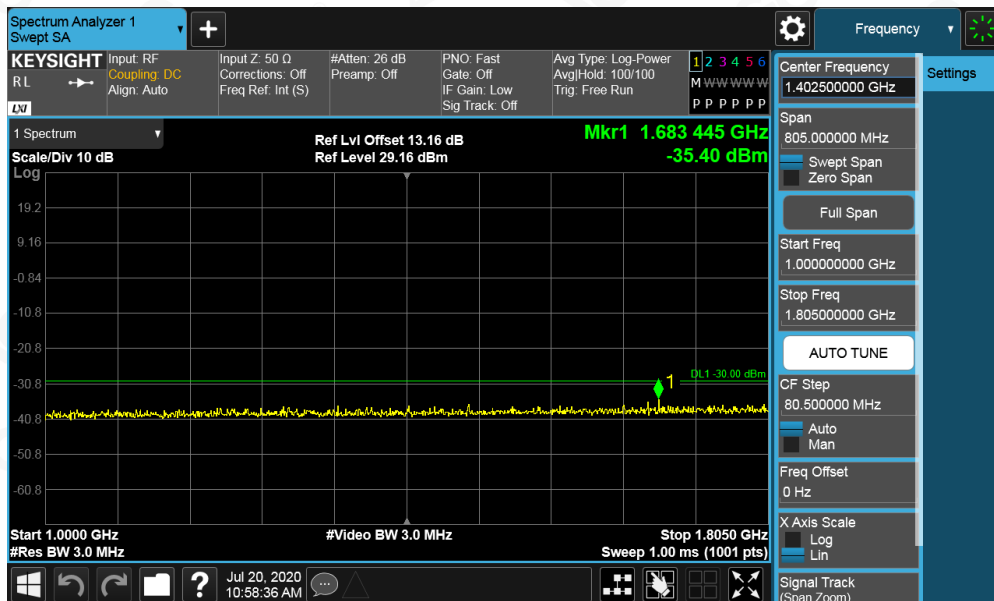


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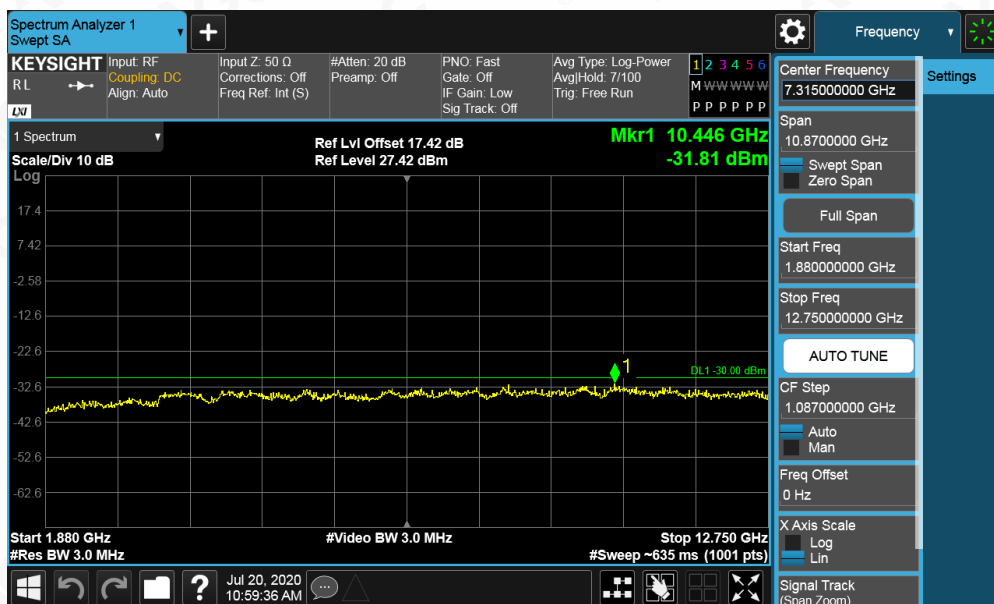
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1GHz~1805MHz



1880MHz~12.75GHz

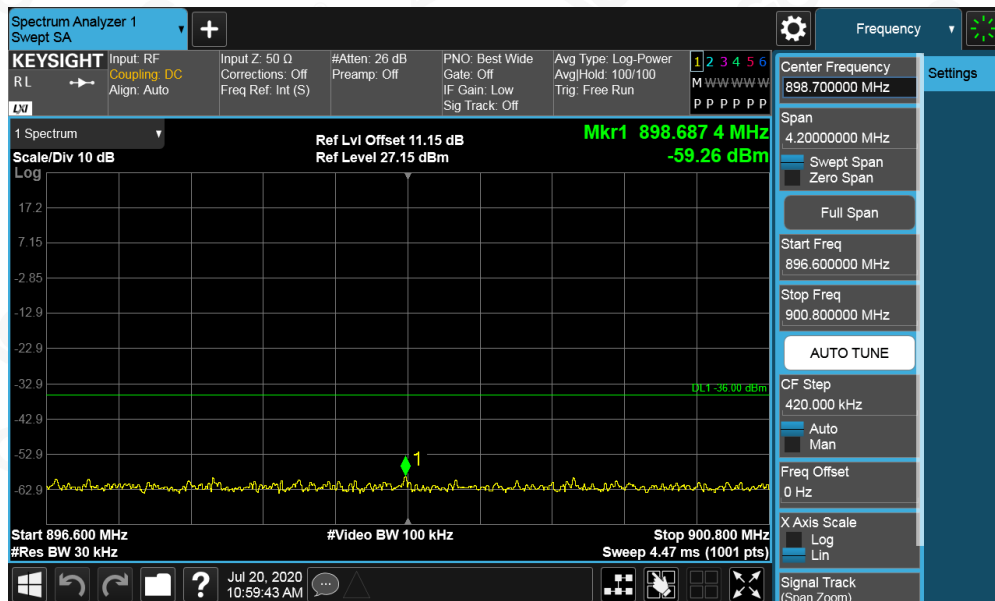


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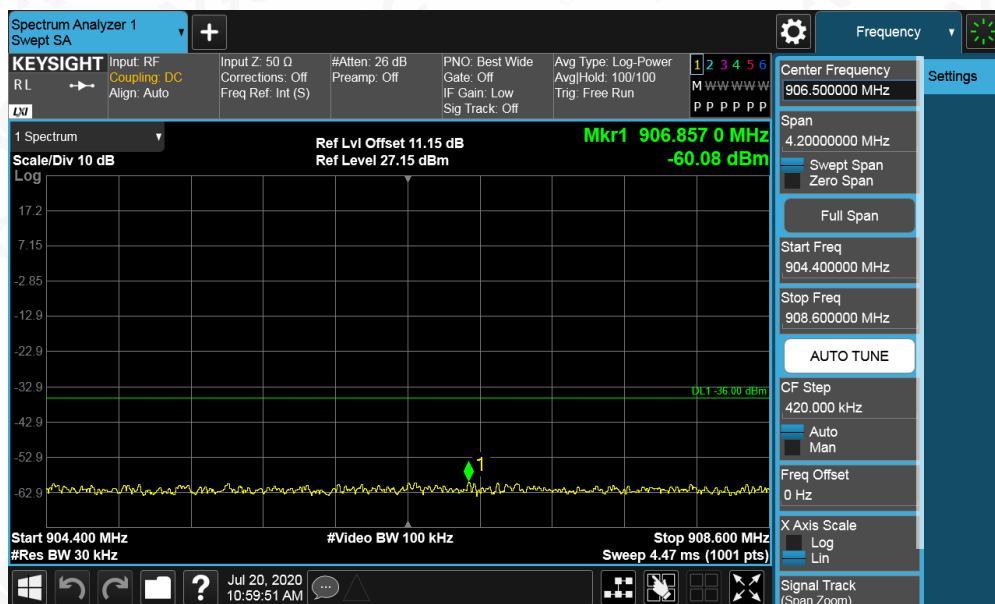
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896.6MHz~900.8MHz



904.4MHz~908.6MHz

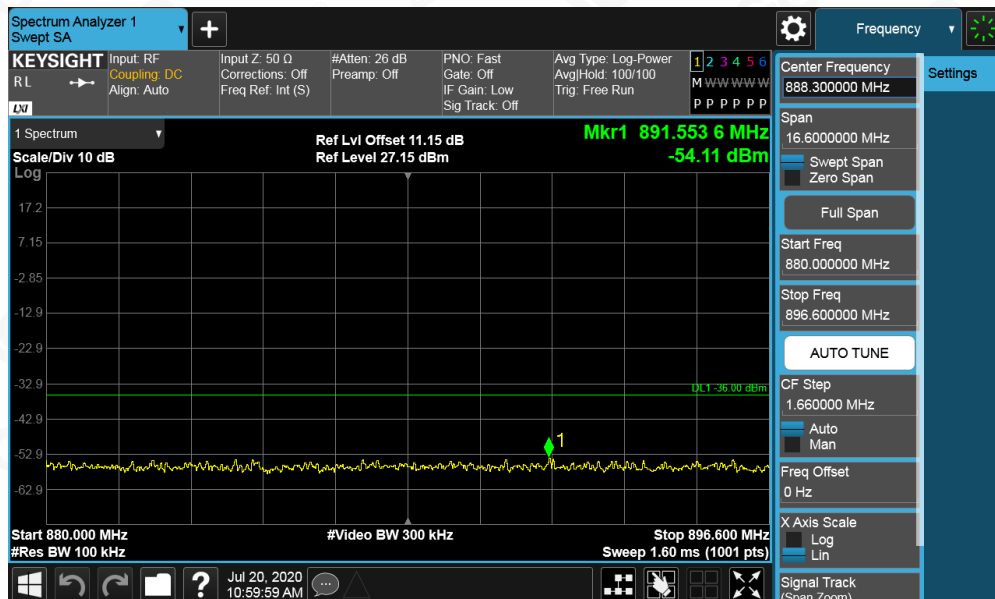


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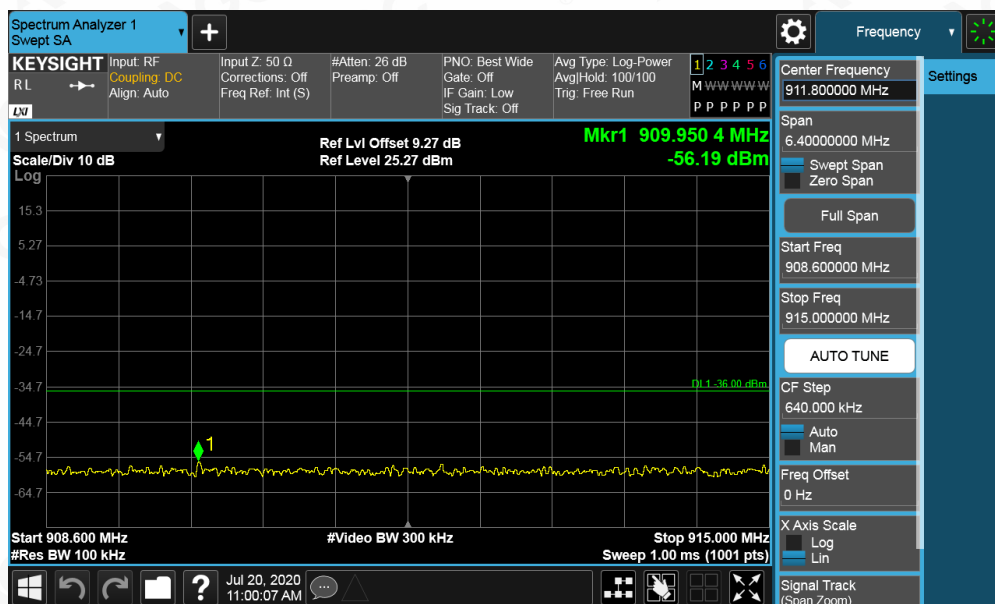
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880MHz~896.6MHz



908.6MHz~915MHz

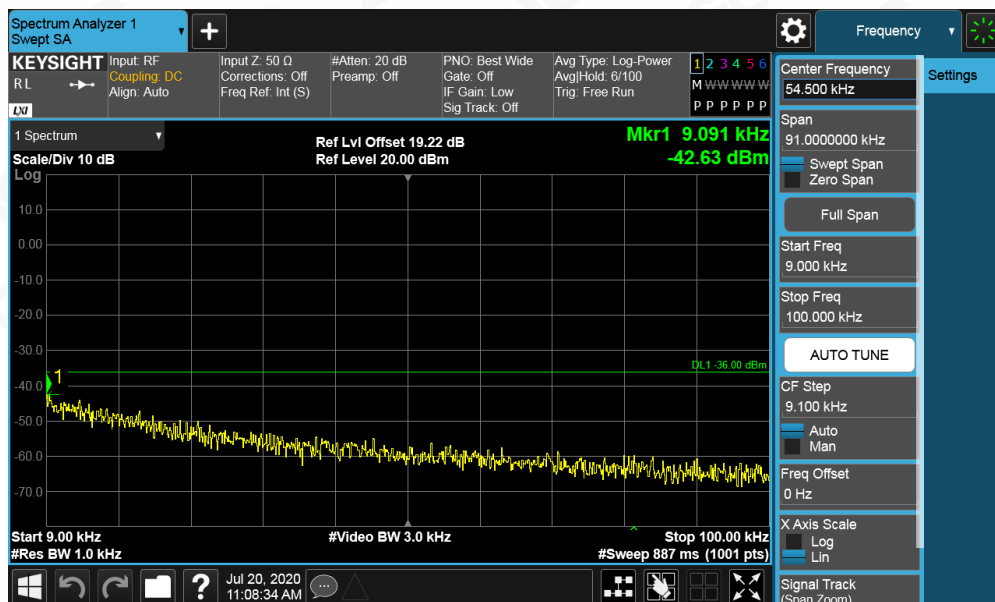


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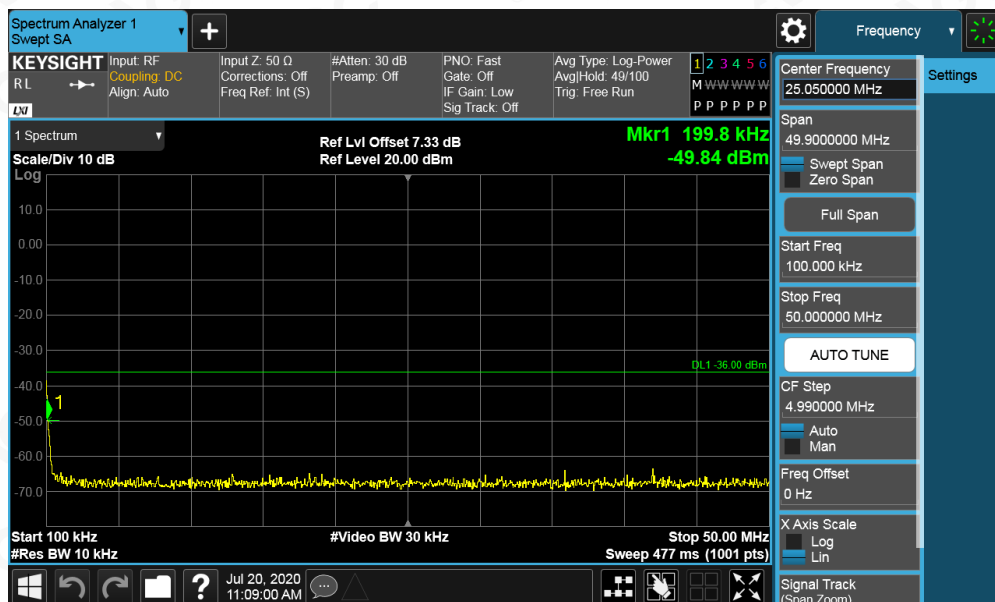
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DCS1800: channel MCH VN 9kHz~100kHz



100kHz~50MHz

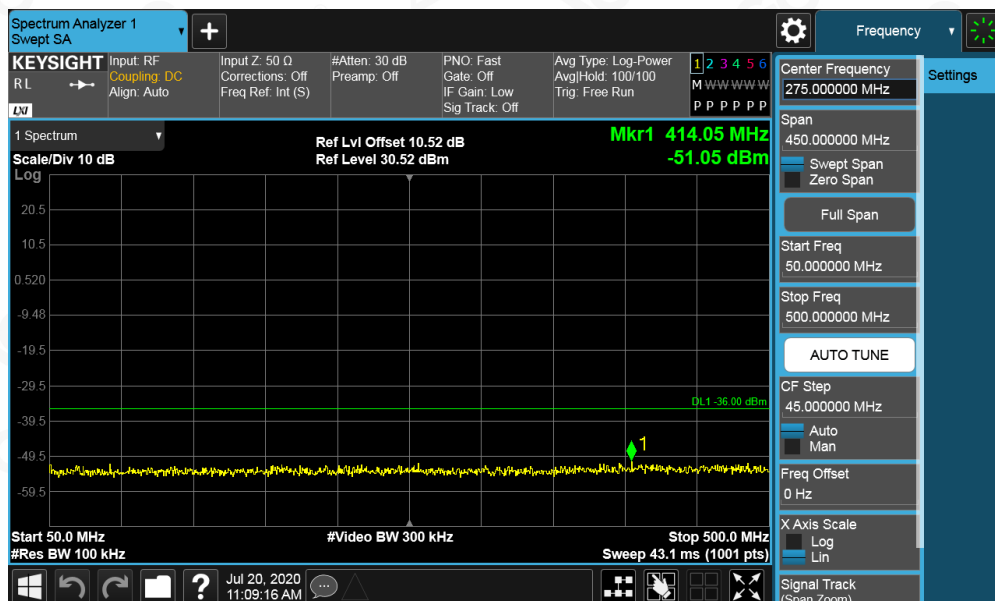


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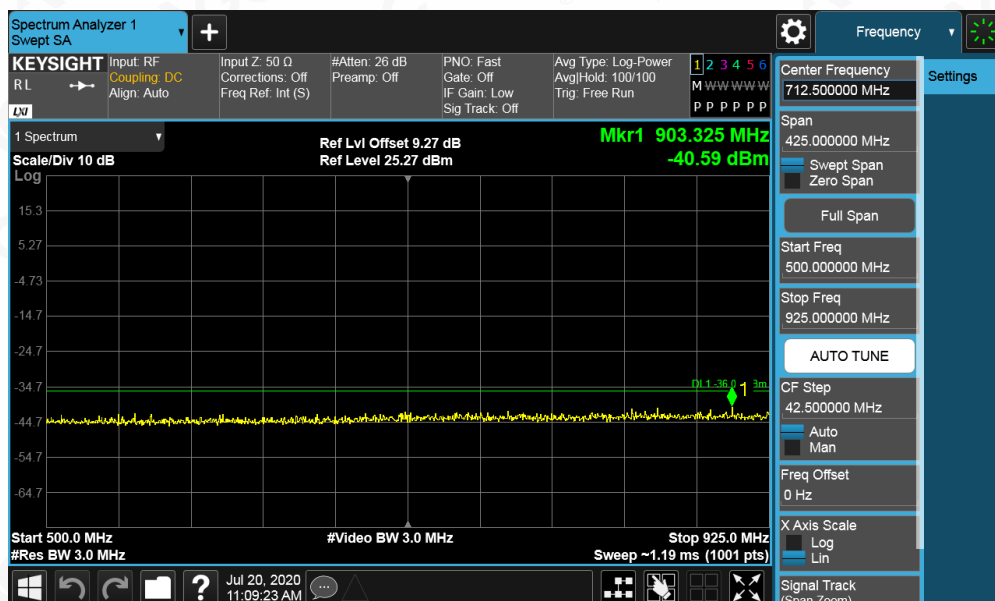
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50MHz~500MHz



500MHz~925MHz

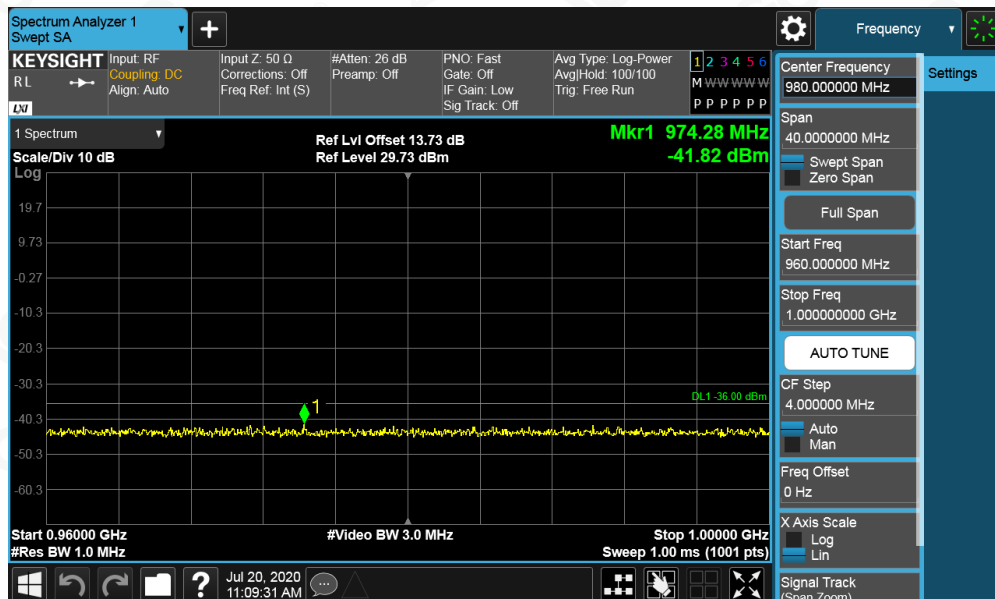


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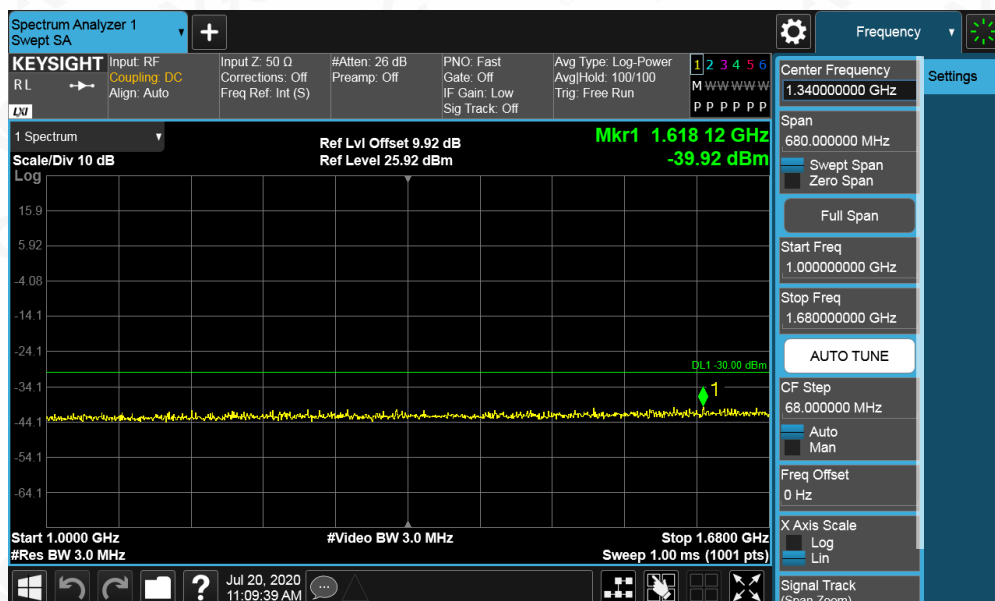
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960MHz~1GHz



1GHz~1680MHz

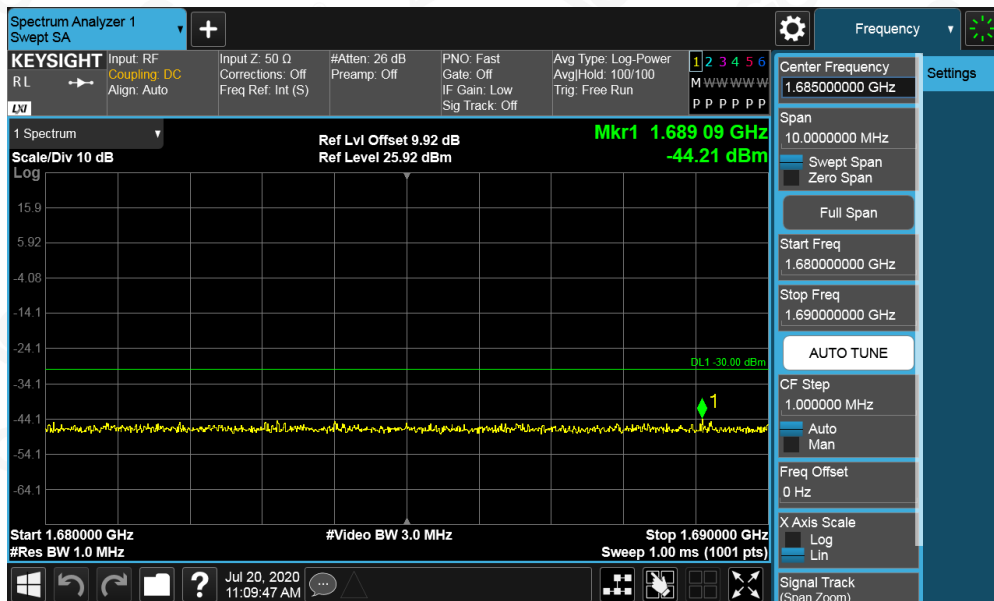


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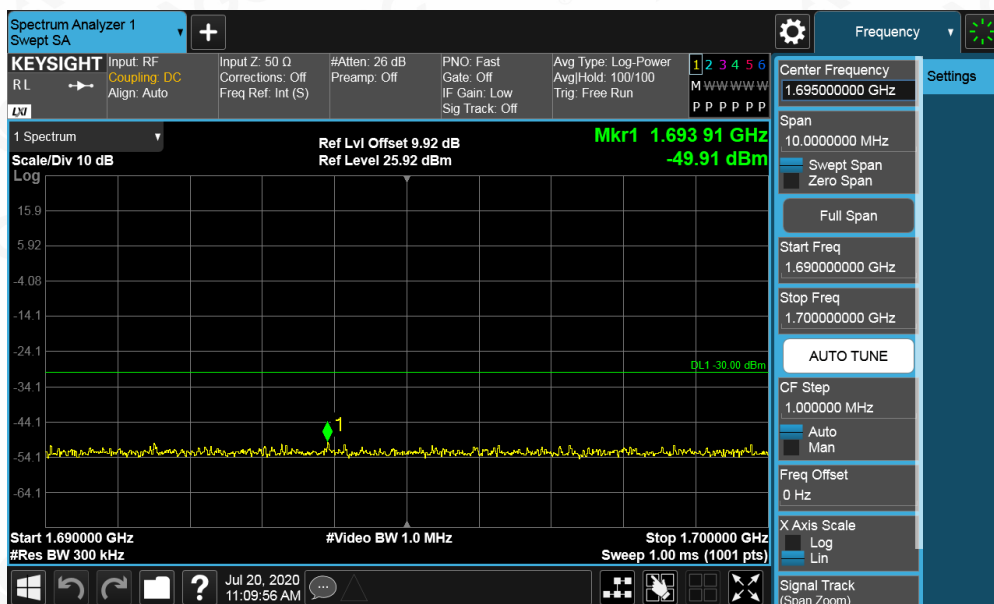
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1680MHz~1690MHz



1690MHz~1700MHz

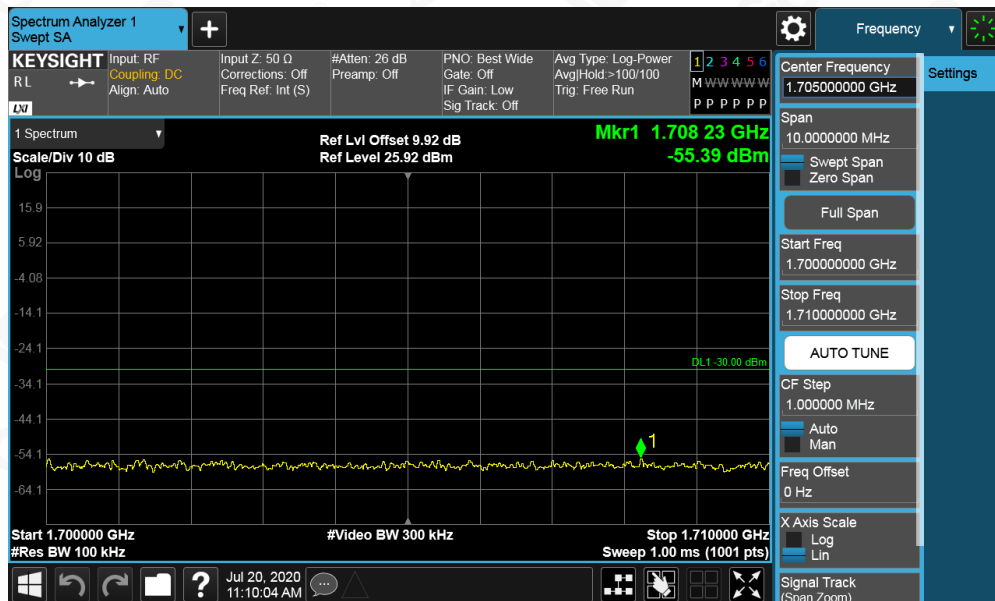


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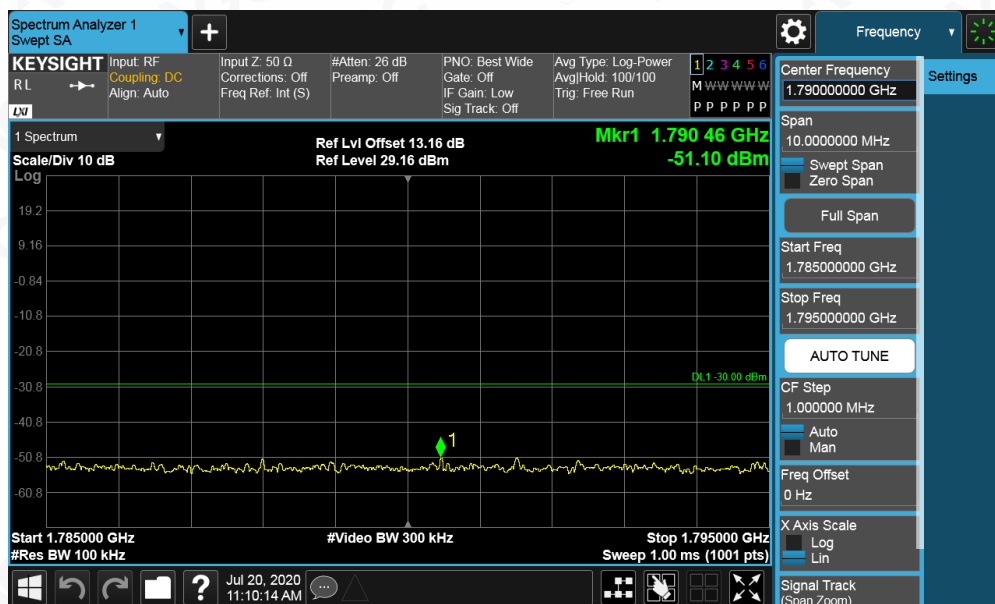
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1700MHz~1710MHz



1785MHz~1795MHz

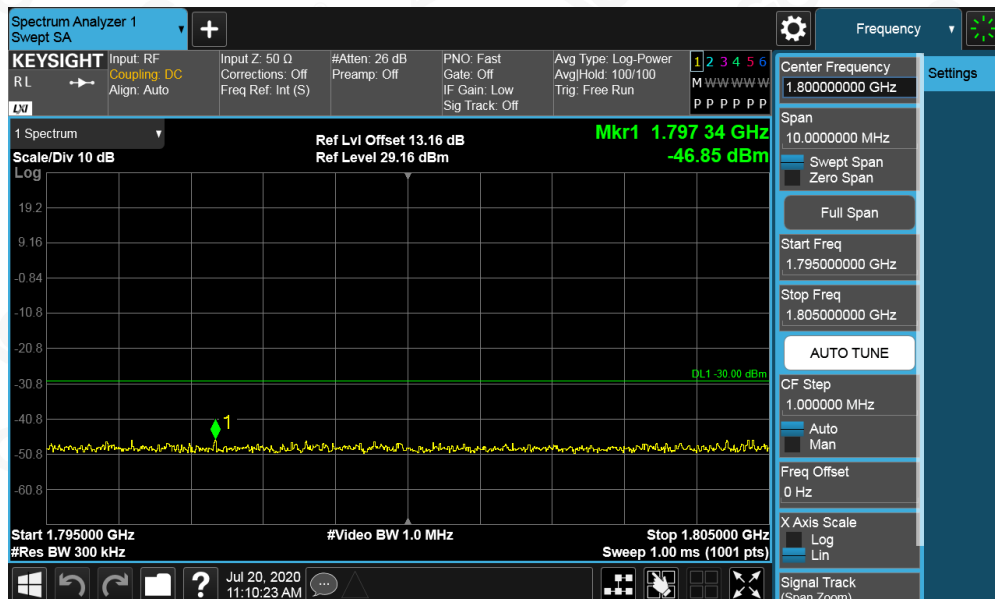


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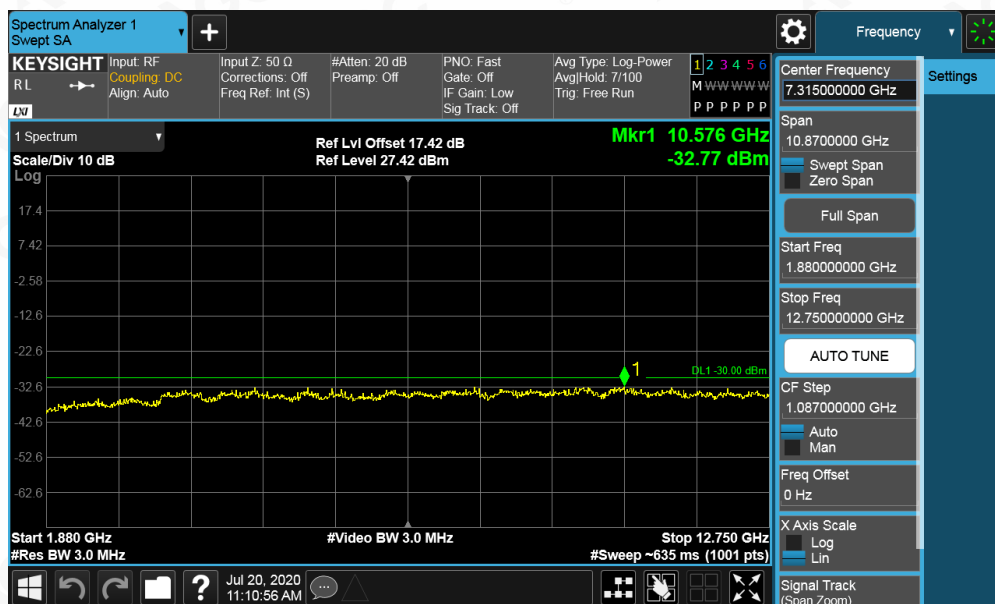
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1795MHz~1805MHz



1880MHz~12.75GHz

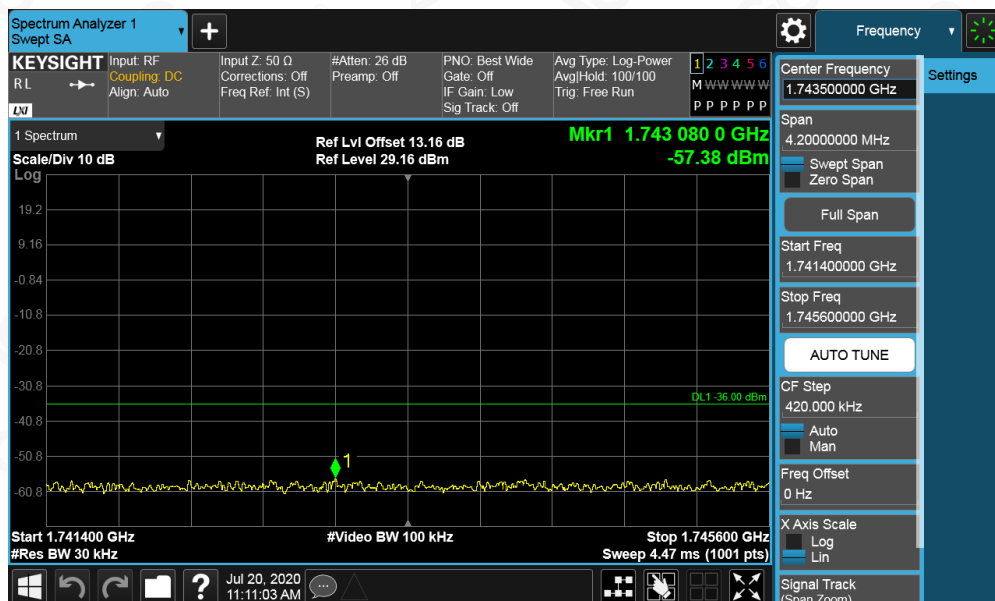


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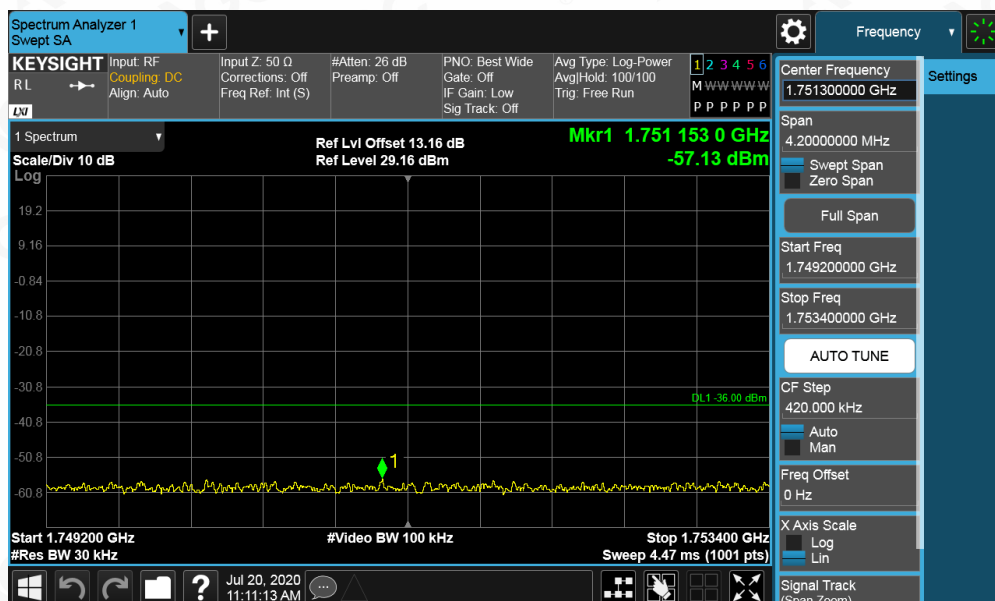
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1741.4MHz~1745.6MHz



1749.2MHz~1753.4MHz

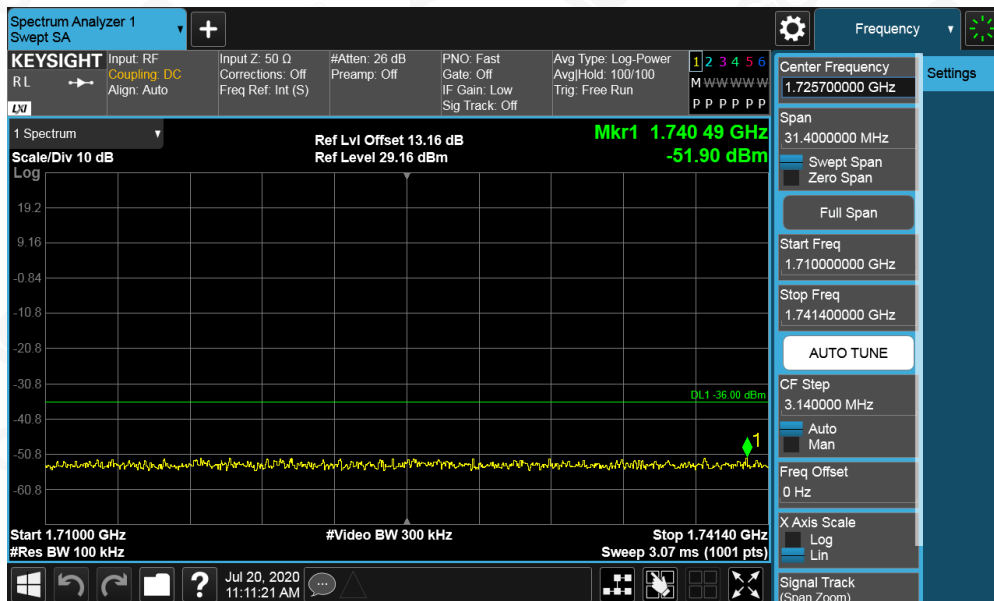


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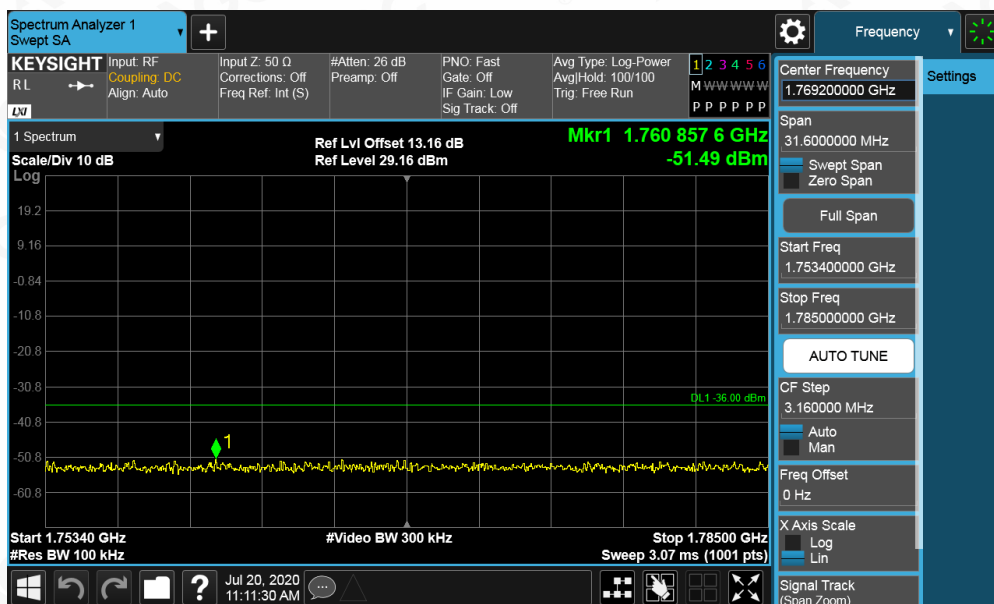
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1710MHz~1741.4MHz



1753.4MHz~1785MHz



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Appendix I. Conducted spurious emissions- MS in idle mode

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of follow:

Conducted spurious emissions	GSM900;VN			
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
100kHz~50MHz	10k	-57	-60.79	PASS
50MHz~880MHz	100k	-57	-58.51	PASS
880MHz~915MHz	100k	-59	-62.13	PASS
915MHz~1000MHz	100k	-57	-61.27	PASS
1GHz~1710MHz	100k	-47	-54.57	PASS
1710MHz~1785MHz	100k	-53	-57.53	PASS
1785MHz~12.75GHz	100k	-47	-47.30	PASS

Conducted spurious emissions	DCS1800;VN			
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
100kHz~50MHz	10k	-57	-59.60	PASS
50MHz~880MHz	100k	-57	-59.89	PASS
880MHz~915MHz	100k	-59	-61.68	PASS
915MHz~1000MHz	100k	-57	-61.73	PASS
1GHz~1710MHz	100k	-47	-54.41	PASS
1710MHz~1785MHz	100k	-53	-57.48	PASS
1785MHz~12.75GHz	100k	-47	-51.73	PASS

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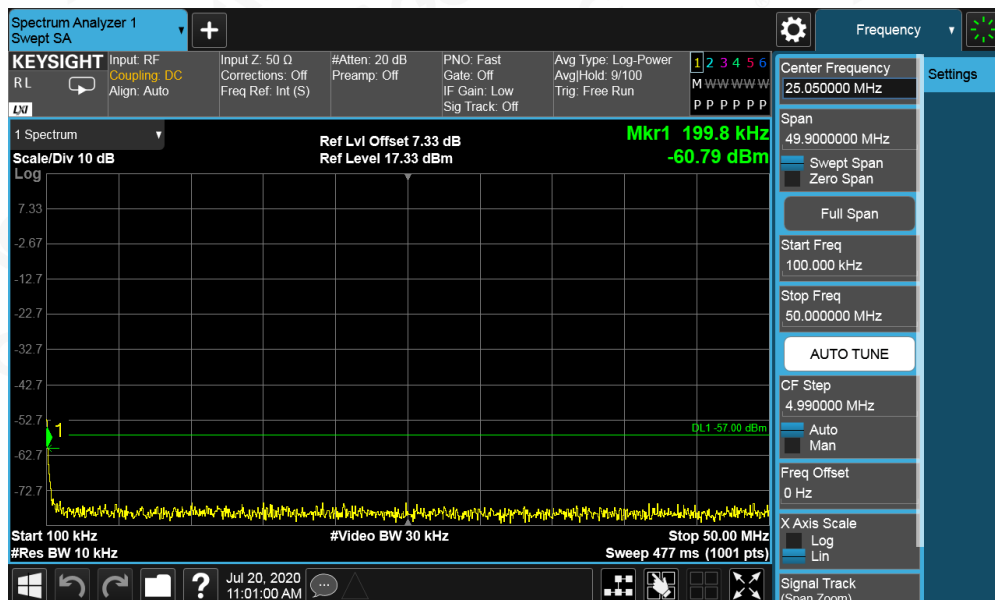
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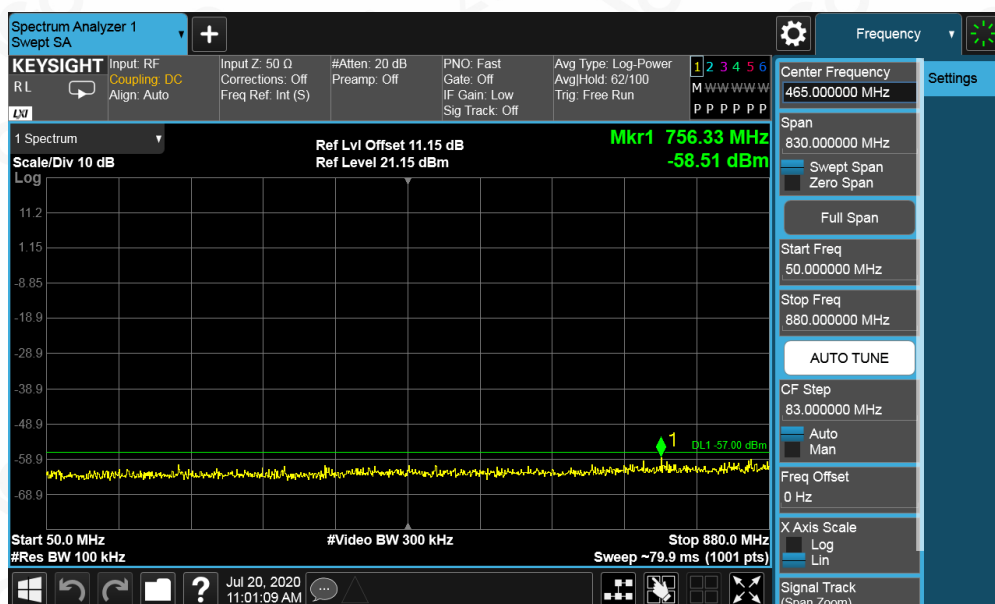
Graphs of conducted spurious emission-MS in idle mode

GSM900: channel MCH VN

100kHz~50MHz



50MHz~880MHz

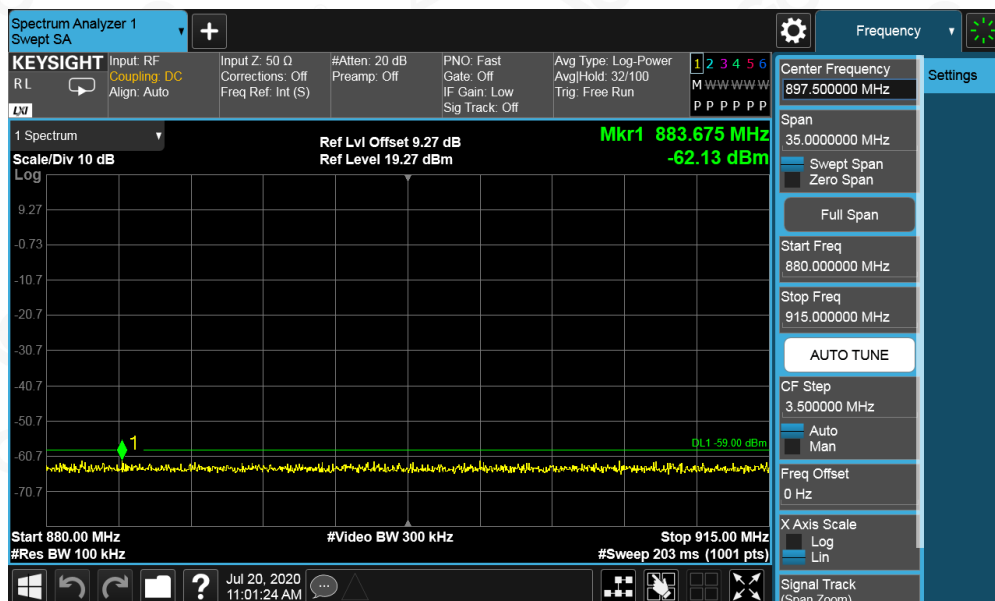


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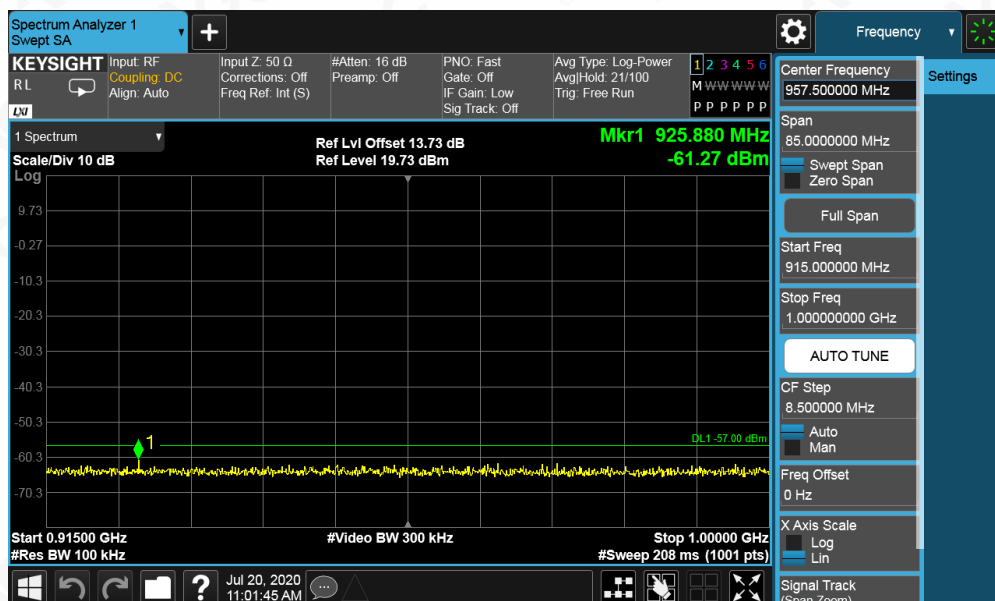
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880MHz~915MHz



915MHz~1000MHz

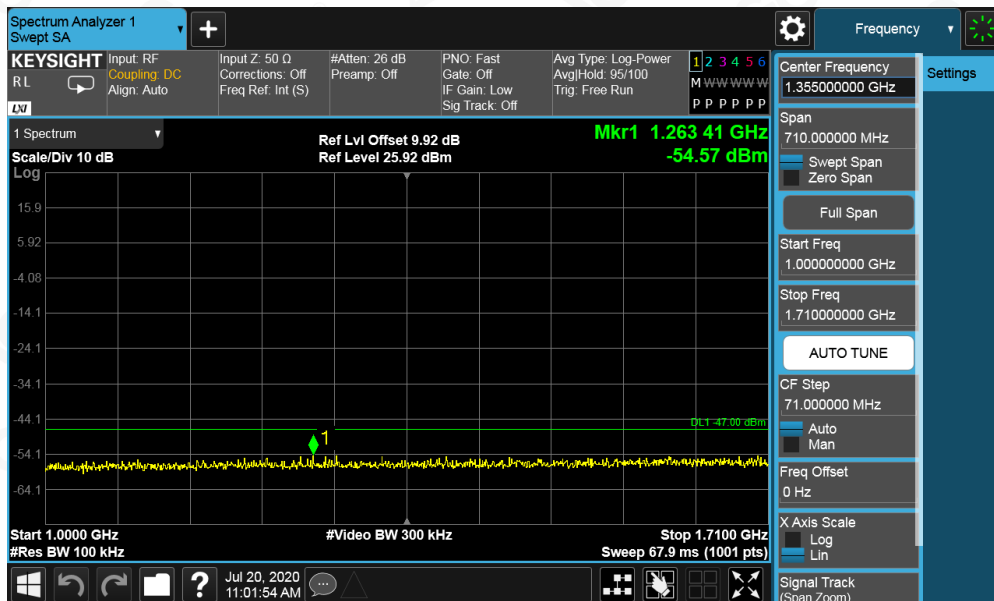


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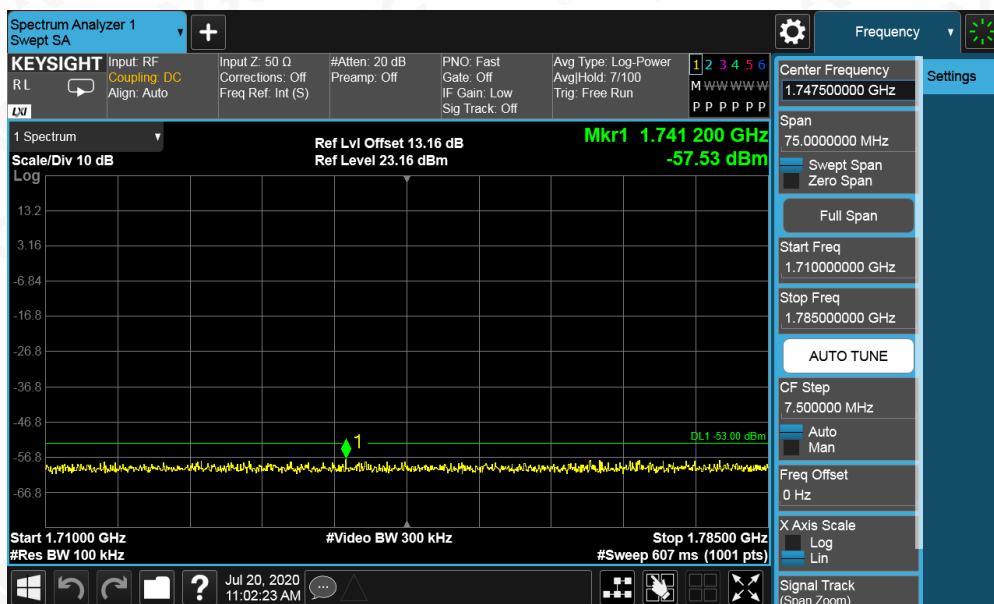
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1GHz~1710MHz



1710MHz~1785MHz

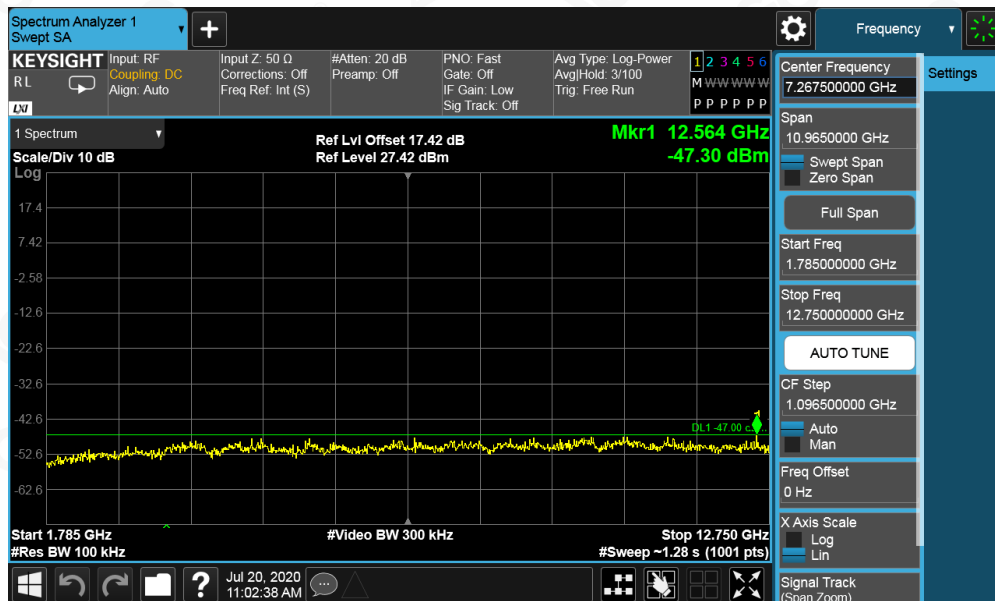


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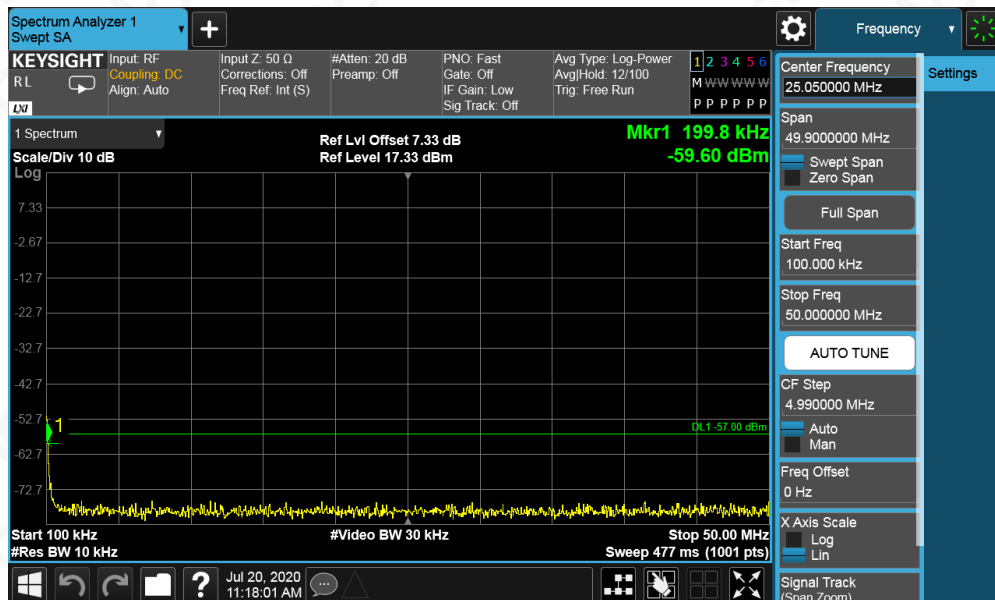


1785MHz~12.75GHz



DCS1800: channel MCH VN

100kHz~50MHz

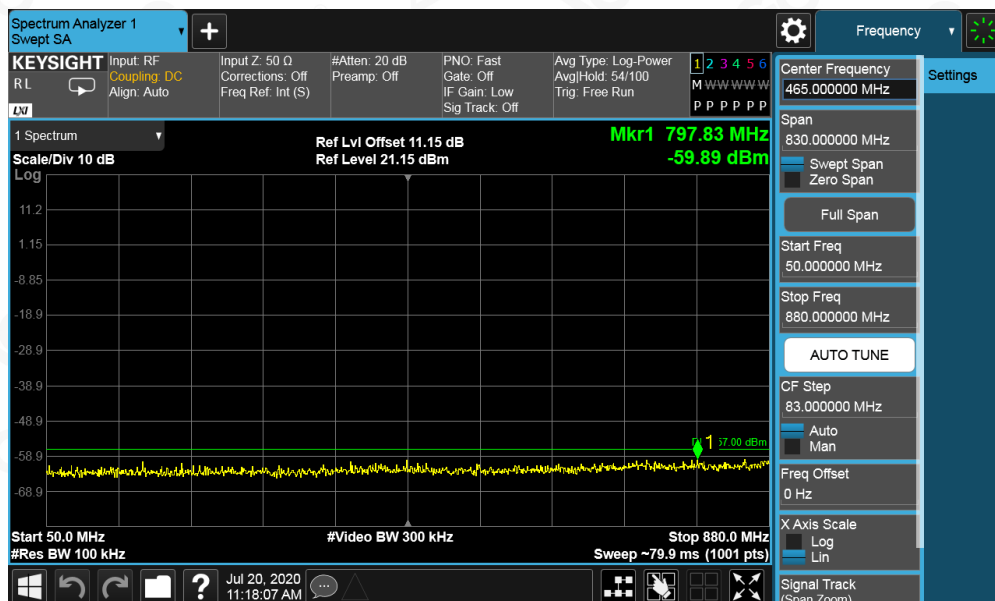


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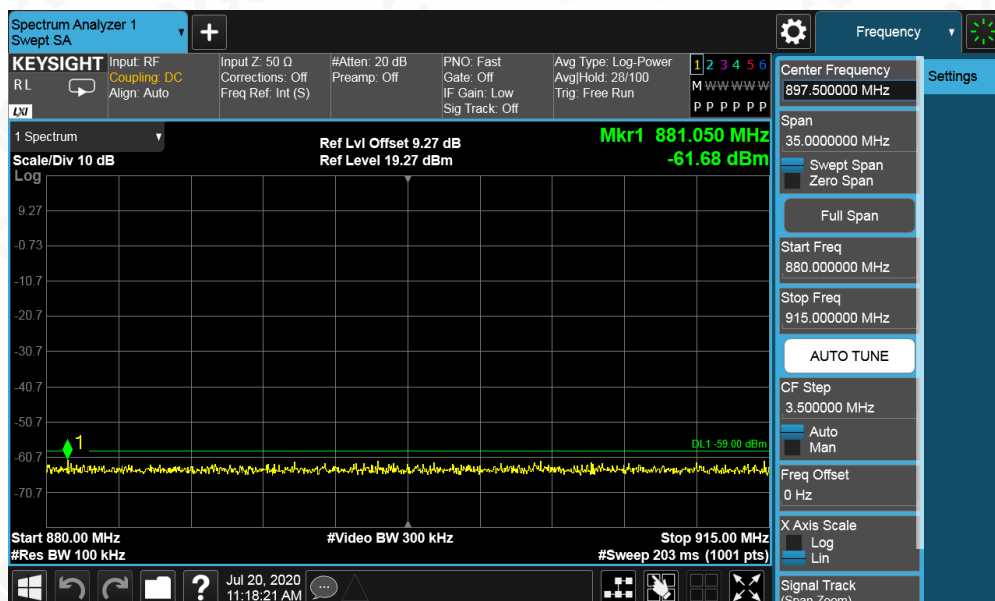
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50MHz~880MHz



880MHz~915MHz

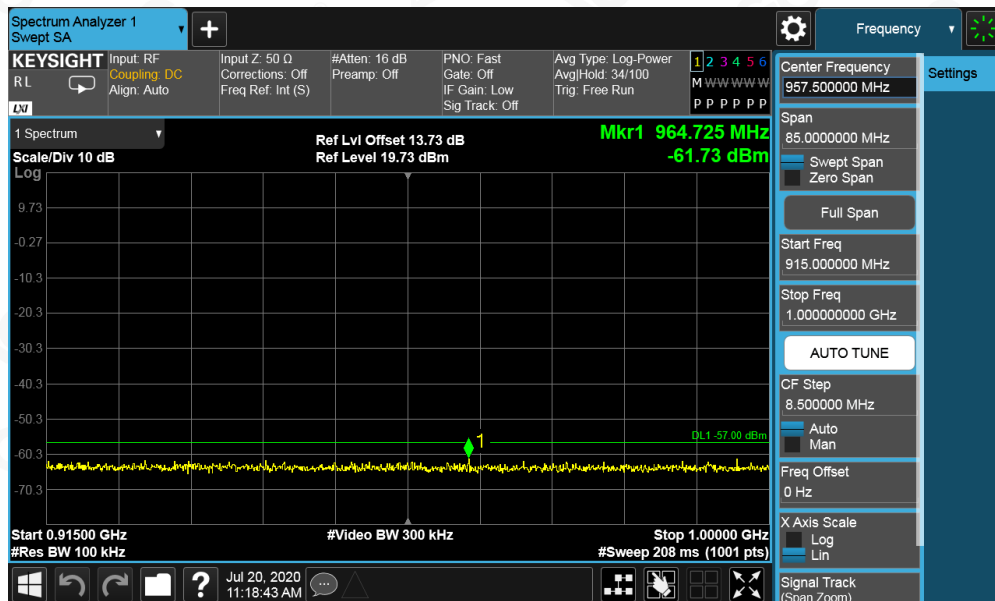


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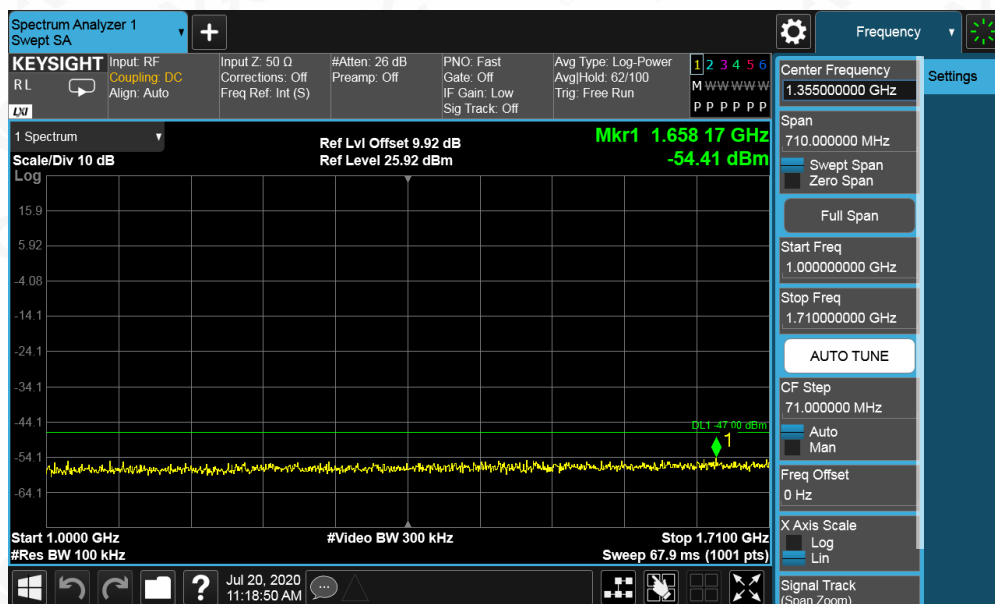
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915MHz~1000MHz



1GHz~1710MHz

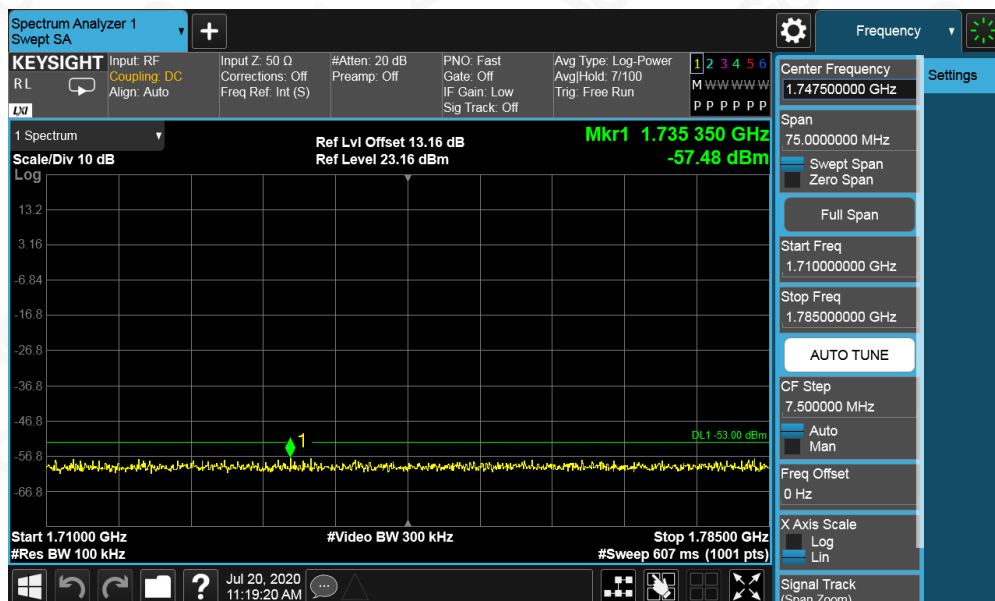


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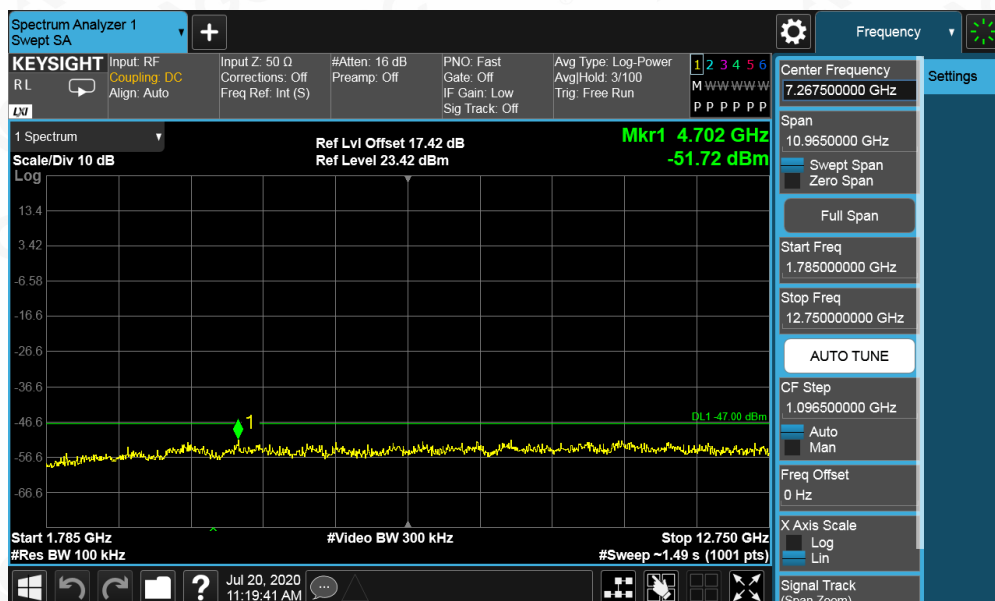
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1710MHz~1785MHz



1785MHz~12.75GHz



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Appendix J. Intermodulation rejection - speech channels

Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TNVN) of fellow:

GSM900

	Intermodulation Test Signal Levels		Result
TNVN	Wanted Signal dBuVemf()	15	Pass
	First Interferer dBuVemf()	64	Pass
	Second Interferer dBuVemf()	63	Pass

GSM1800

	Intermodulation Test Signal Levels		Result
TNVN	Wanted Signal dBuVemf()	15	Pass
	First Interferer dBuVemf()	68	Pass
	Second Interferer dBuVemf()	68	Pass

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Appendix K. Receiver Blocking and spurious response – speech channel

GSM900

FREQUENCY	Measurement Result	
	GSM900	
	Small MS	
	Interference Level in dBμVemf()	Result
FR +/- 600 kHz to FR +/- 800 kHz	70	PASS
FR +/- 800 kHz to FR +/- 1.6 MHz	70	PASS
FR +/- 1.6 MHz to FR +/- 3 MHz	80	PASS
915 MHz to FR - 3 MHz	90	PASS
FR + 3 MHz to 980 MHz	90	PASS
835 MHz to <915 MHz	113	PASS
>980 MHz to 1000 MHz	113	PASS
100 kHz to <835 MHz	90	PASS
>1000 MHz to 12.75 GHz	90	PASS

DCS1800

FREQUENCY	Measurement Result	
	DCS1800	
	Small MS	
	Interference Level in dBμVemf()	Result
FR +/- 600 kHz to FR +/- 800 kHz	70	PASS
FR +/- 800 kHz to FR +/- 1.6 MHz	70	PASS
FR +/- 1.6 MHz to FR +/- 3 MHz	80	PASS
1785 MHz to FR - 3 MHz	87	PASS
FR + 3 MHz to 1920 MHz	87	PASS
100 kHz to 1705 MHz	113	PASS
>1705 MHz to <1785 MHz	101	PASS
>1920 MHz to 1980 MHz	101	PASS
>1980 MHz to 12.75 GHz	90	PASS

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Appendix L. Frequency error and Modulation accuracy in EGPRS Configuration

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of fellow:

GSM900

TN,VN			≤9%	≤15%	≤30%	≤10E-7	Result
BAND	ARFCN	PCL	RMS EVM	the 95% EVM	Peak EVM	Frequency error	
GSM900	LCH	8	0.9	1.6	2.8	14	PASS
		19	0.6	1.2	1.9	13	PASS
	MCH	8	0.8	1.6	2.6	15	PASS
		19	0.6	1.2	1.7	14	PASS
	HCH	8	0.8	1.5	2.4	13	PASS
		19	0.6	1.2	1.8	12	PASS

DCS1800

TN,VN			≤9%	≤15%	≤30%	≤10E-7	Result
BAND	ARFCN	PCL	RMS EVM	the 95% EVM	Peak EVM	Frequency error	
DCS1800	LCH	2	1.1	2.1	3.3	7	PASS
		15	0.7	1.5	2.3	8	PASS
	MCH	2	1.4	2.5	4.2	11	PASS
		15	0.7	1.5	2.2	7	PASS
	HCH	2	1.6	2.8	4.8	10	PASS
		15	0.8	1.5	2.3	9	PASS

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Appendix M. Frequency error under multipath and interference conditions in EGPRS Configuration

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of fellow:

GSM900

Fading set	Test conditions	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
RA250	TNVN	14	13	14	PASS
HT100	TNVN	13	13	13	PASS
TU50	TNVN	14	14	14	PASS
TU3	TNVN	13	14	12	PASS

DCS1800

Fading set	Test conditions	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
RA130	TNVN	6	12	11	PASS
HT100	TNVN	6	6	8	PASS
TU50	TNVN	7	7	11	PASS
TU1.5	TNVN	5	9	11	PASS

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Appendix N. EGPRS Transmitter output power

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of fellow:

A. output power

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
GSM900		LCH	MCH	HCH	Result
TN,VN	8	20.37	19.60	19.74	PASS
	12	17.04	16.69	16.75	PASS
	19	2.64	2.51	2.61	PASS

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
DCS1800		LCH	MCH	HCH	Result
TN,VN	2	21.69	21.55	21.33	PASS
	8	14.08	13.99	13.77	PASS
	15	0.22	0.14	-0.16	PASS

B. Power VS Time

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
GSM900	Power level	LCH	MCH	HCH
TN,VN	8	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
DCS1800	Power level	LCH	MCH	HCH
TN,VN	2	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

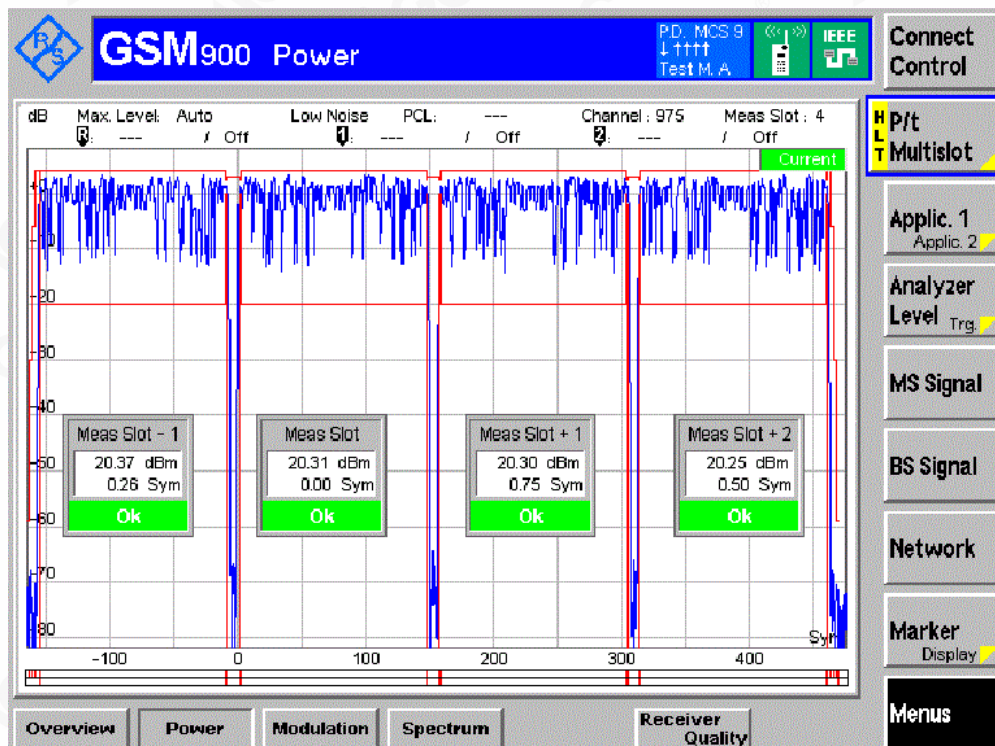
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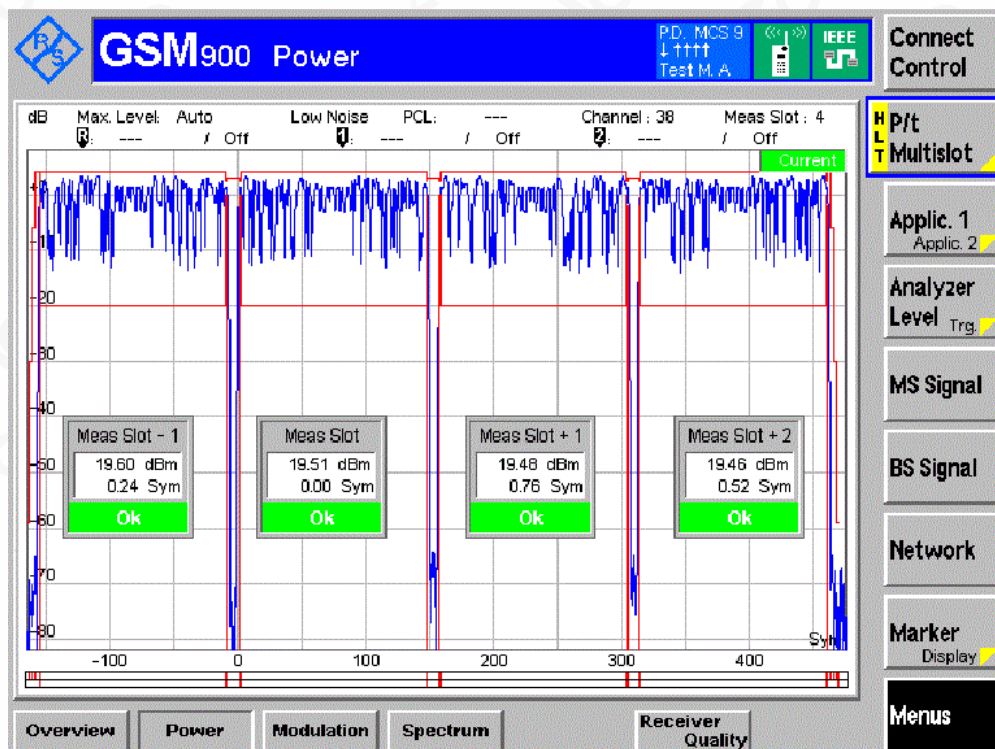
Graphs of EGPRS Transmitter output power

GSM 900 TN,VN

Channel LCH PCL 8



Channel MCH PCL 8

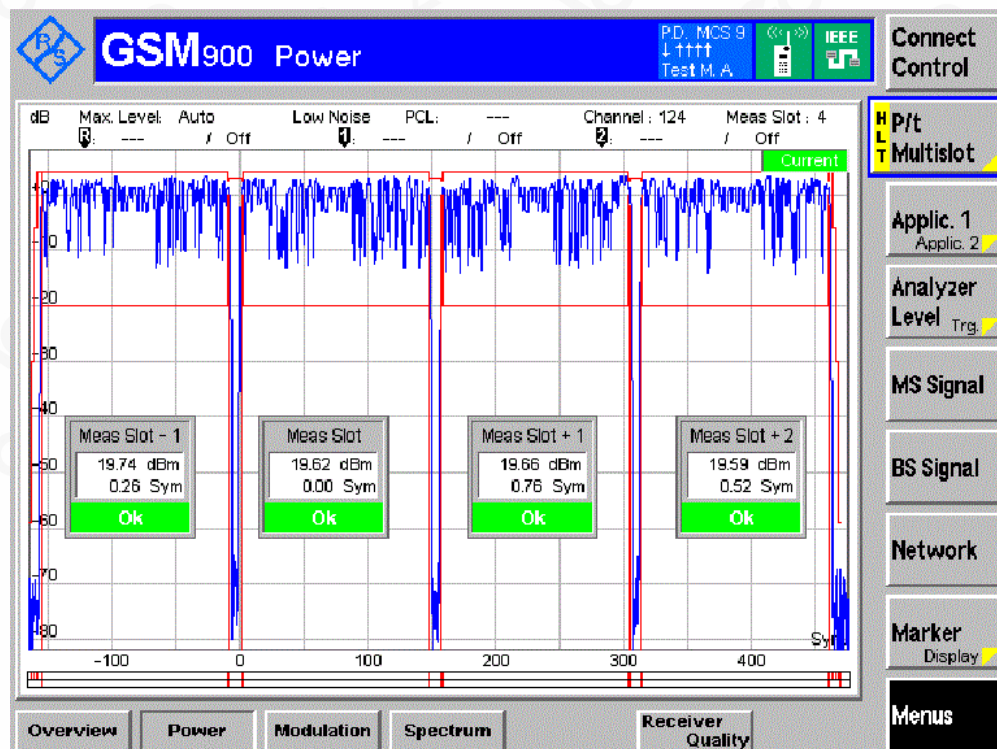


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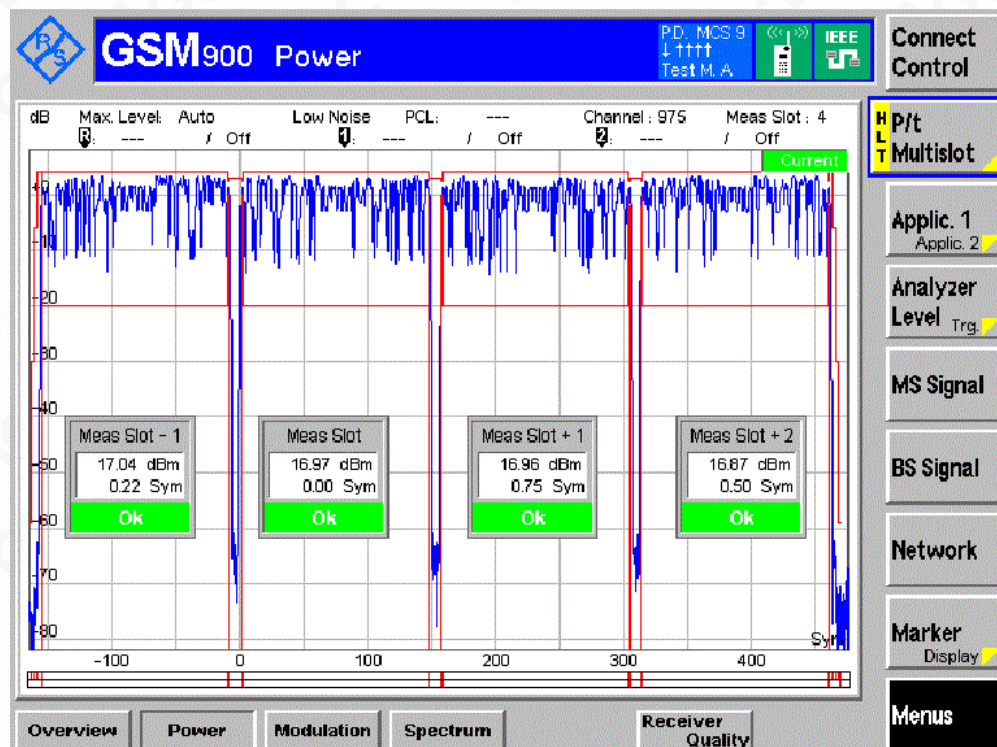
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Channel HCH PCL 8



Channel LCH PCL 12

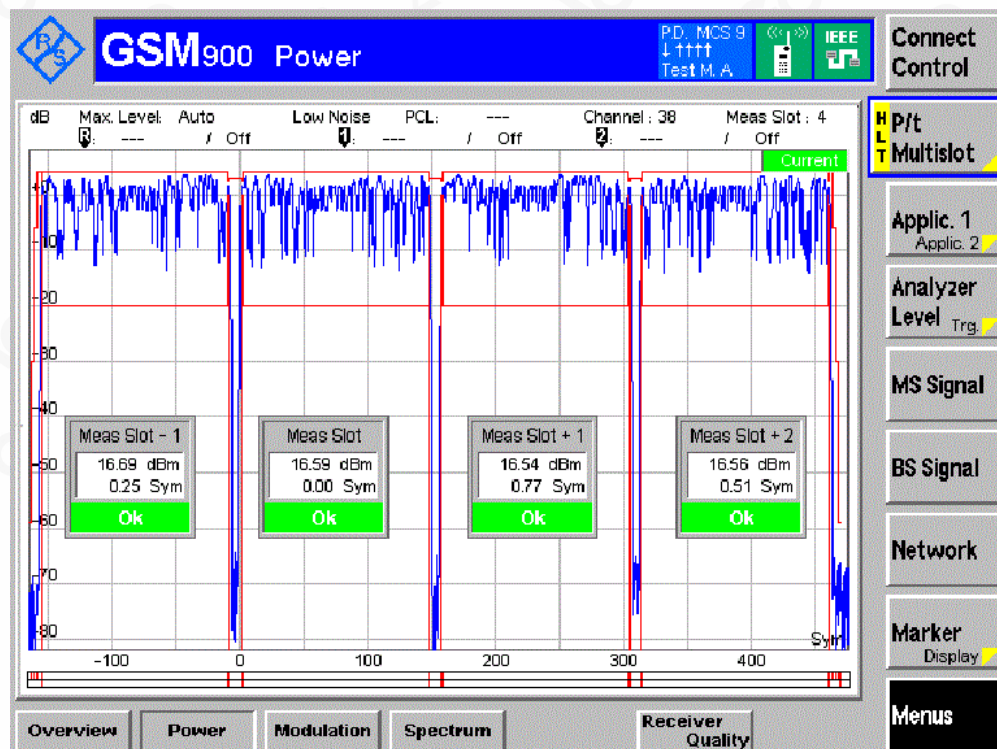


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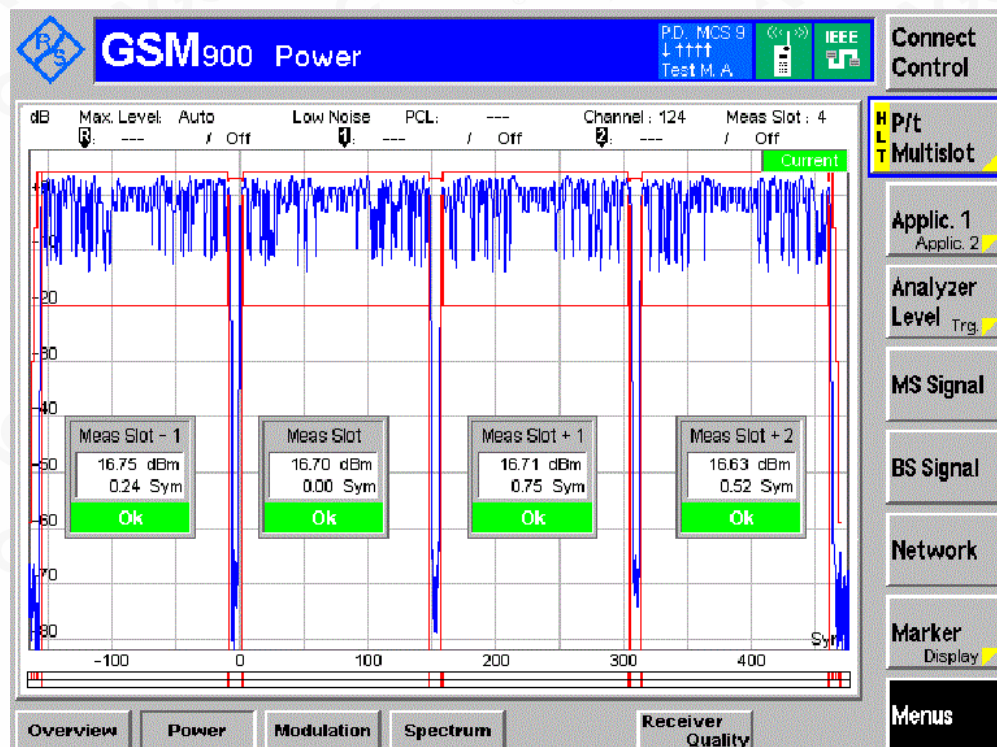
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Channel MCH PCL 12



Channel HCH PCL 12

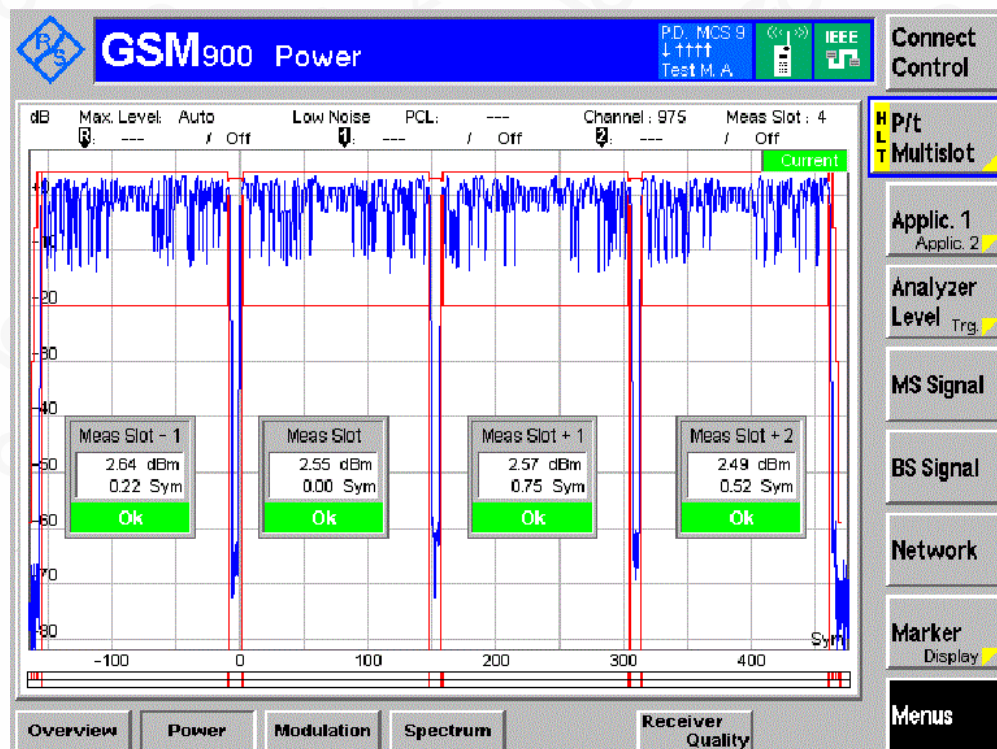


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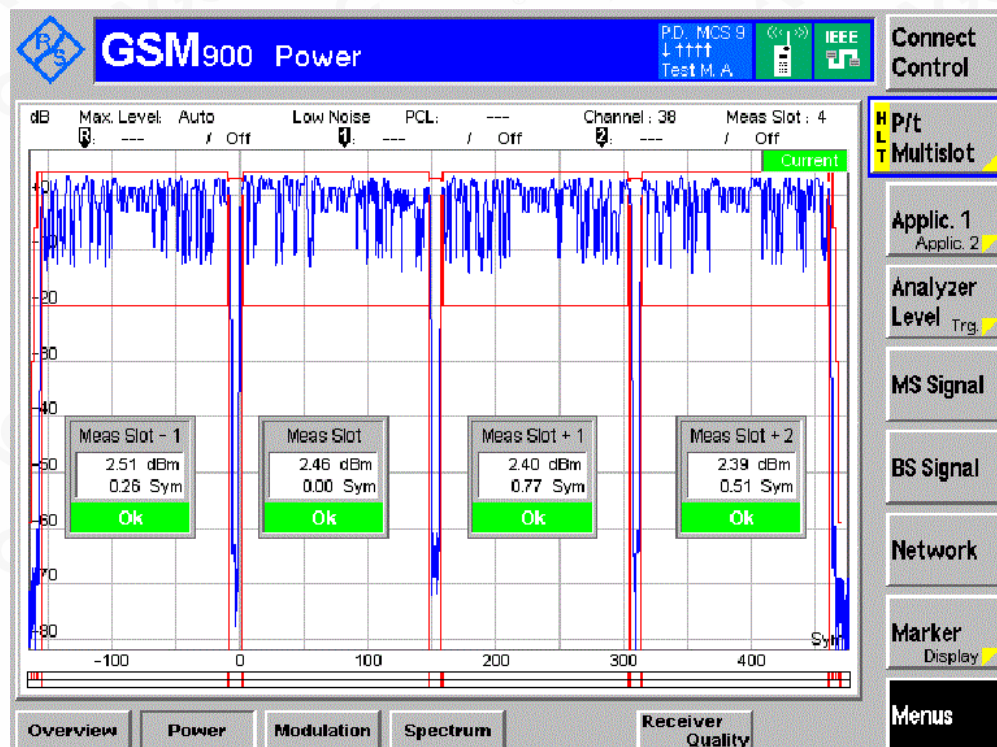
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Channel LCH PCL 19



Channel MCH PCL 19

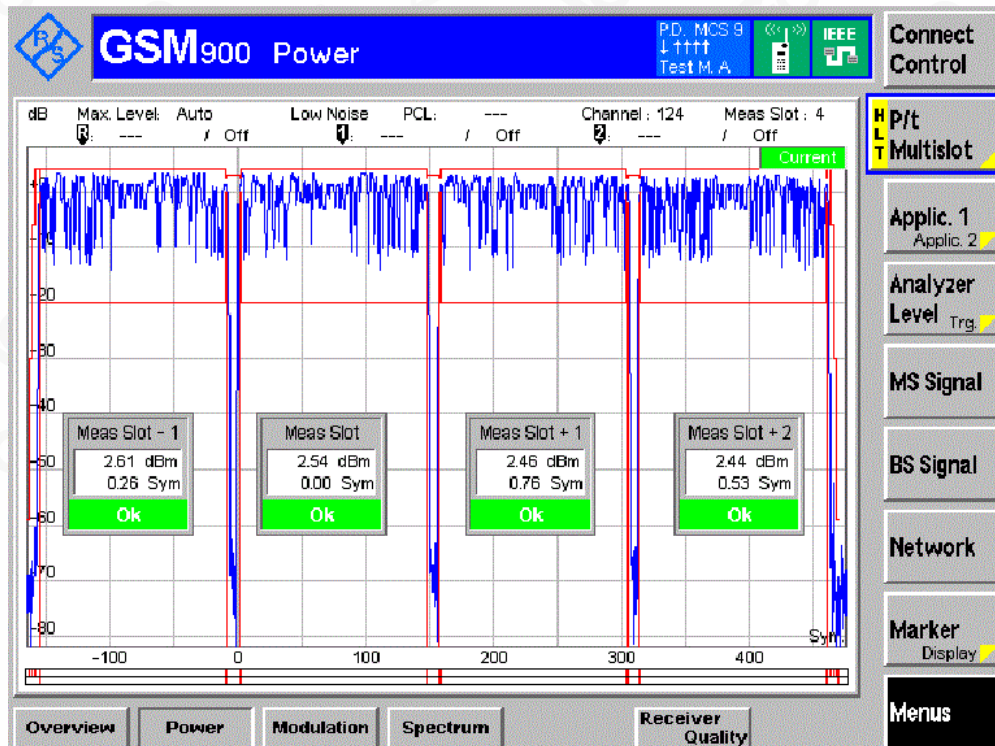


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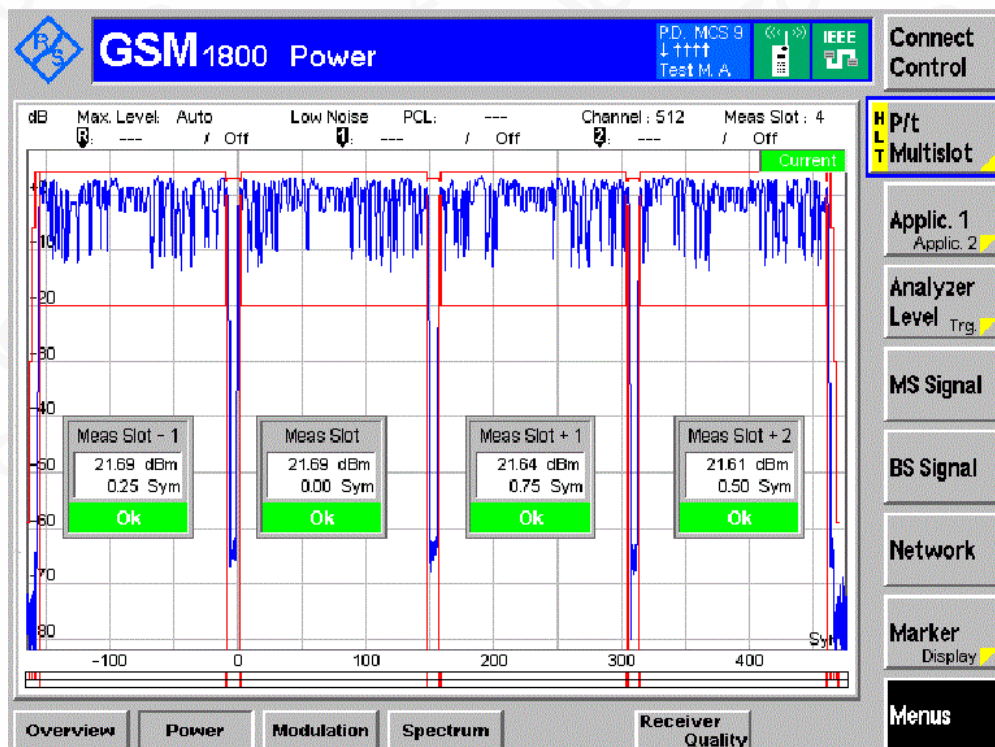


Channel HCH PCL 19



DCS1800 TN,VN

Channel LCH PCL 2

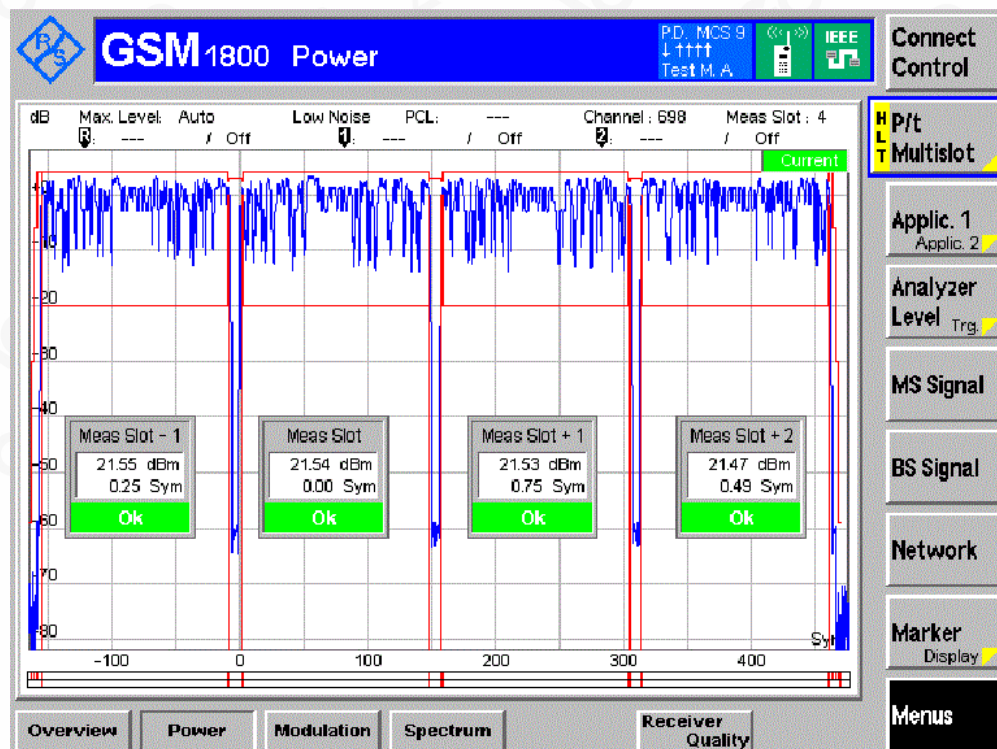


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Channel MCH PCL 2



Channel HCH PCL 2

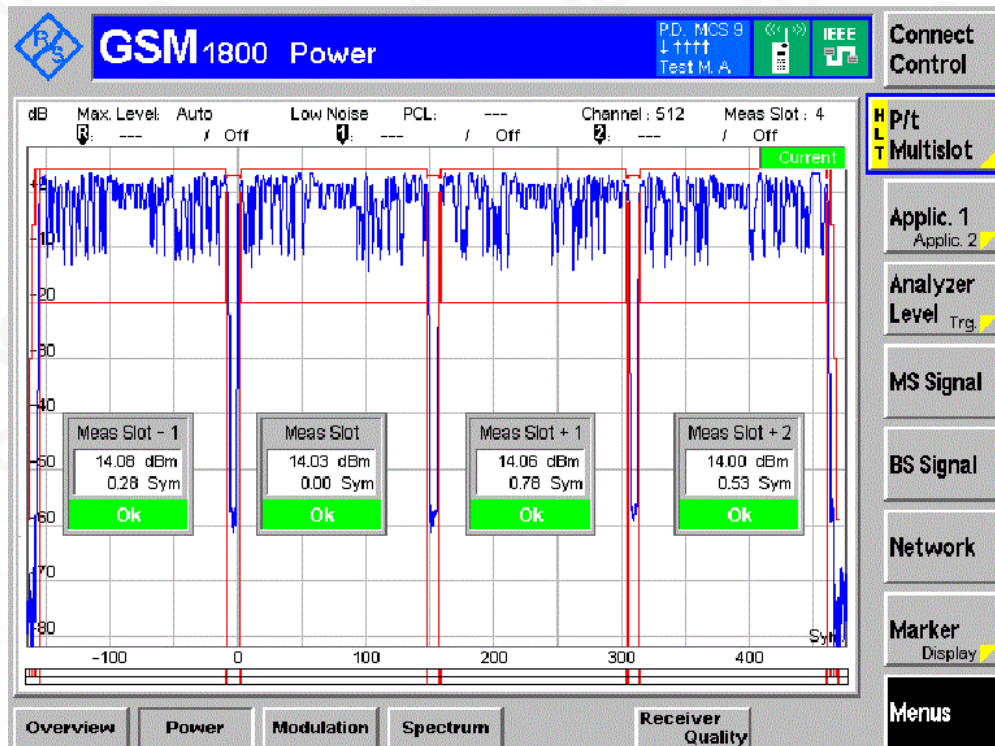


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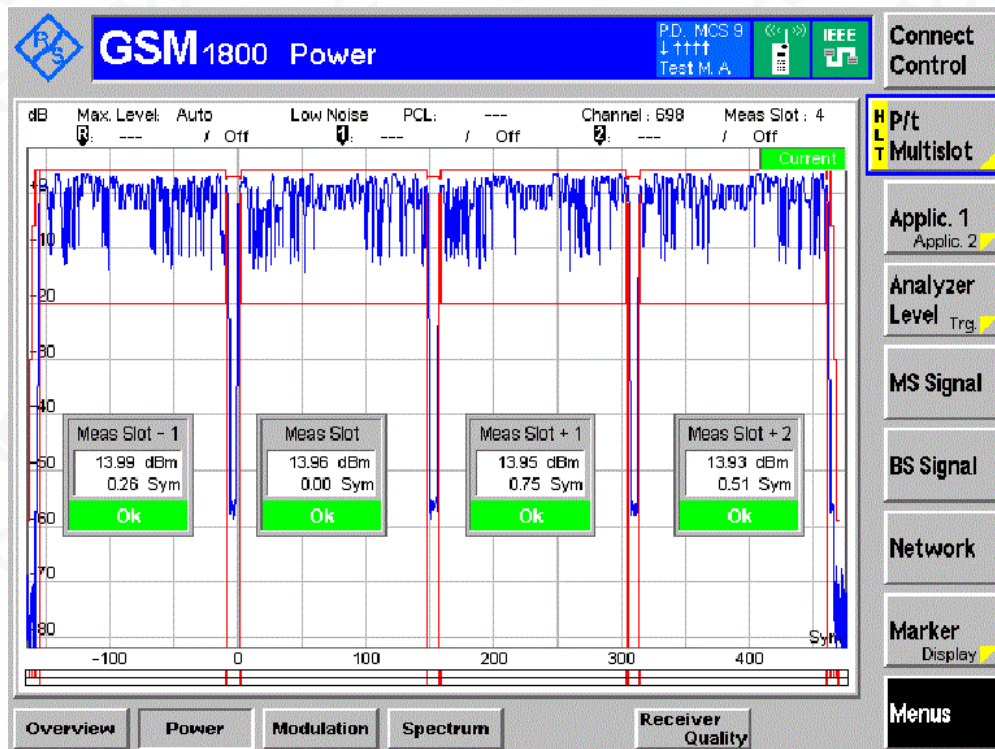
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Channel LCH PCL 8



Channel MCH PCL 8

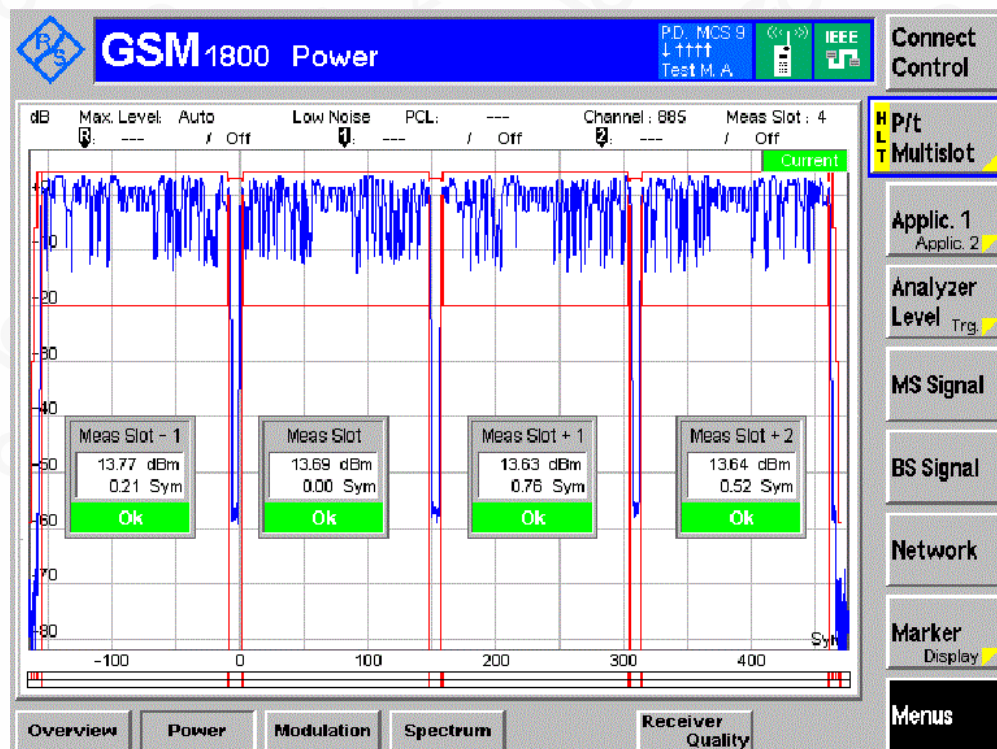


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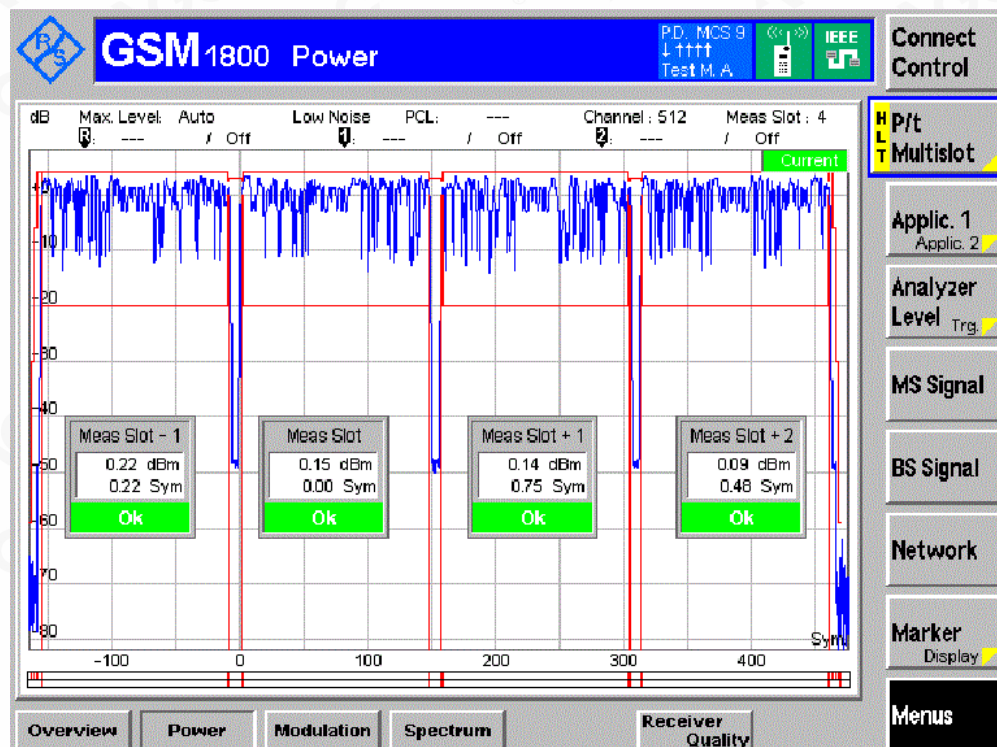
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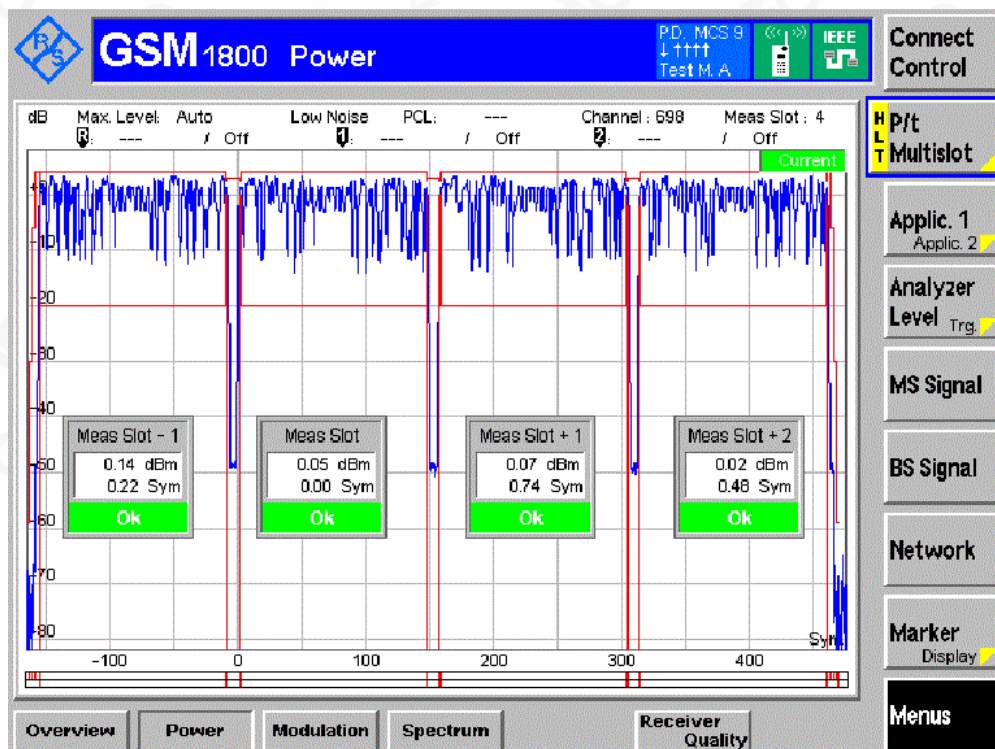


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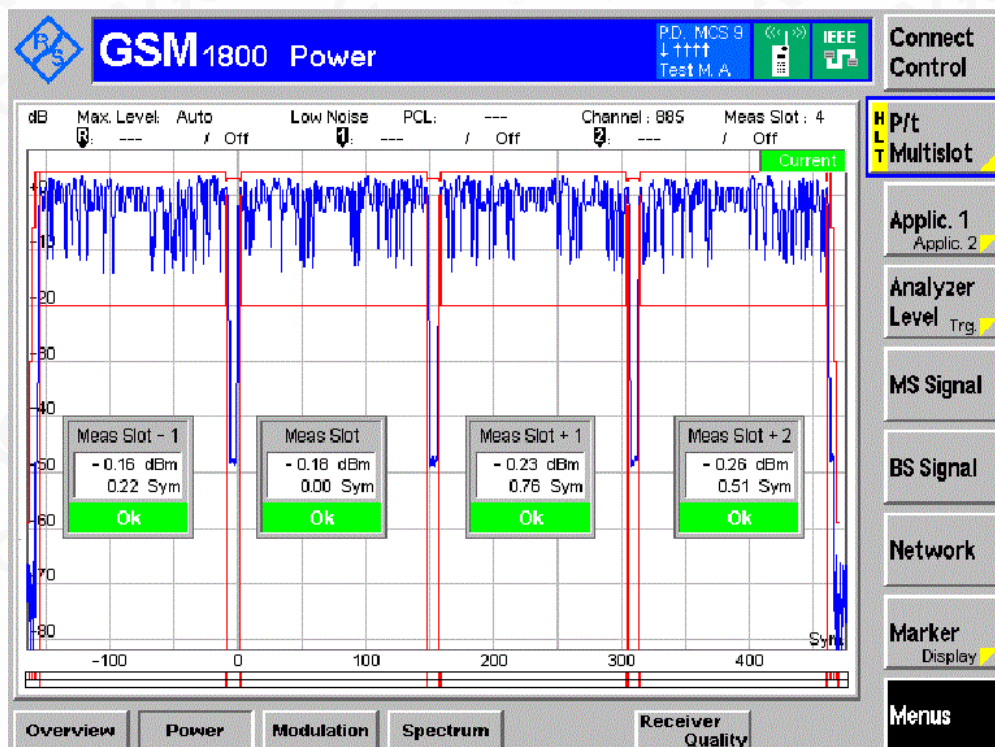
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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix O. Output RF spectrum in EGPRS configuration

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of follow:

Modulation& switch Spectrum	Power level	Result		
		Traffic Channels		
GSM900		LCH	MCH	HCH
TN,VN	8	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Modulation& switch Spectrum	Power level	Result		
		Traffic Channels		
DCS1800		LCH	MCH	HCH
TN,VN	2	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

Graphs of output RF spectrum in EGPRS multislot configuration

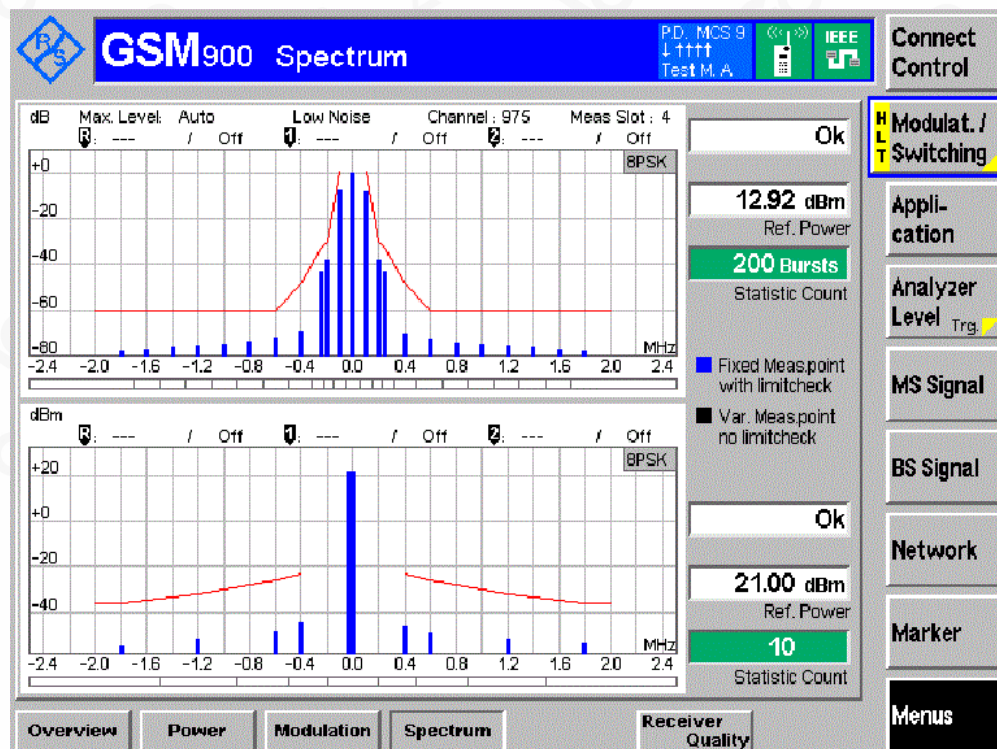
GSM 900 TN,VN

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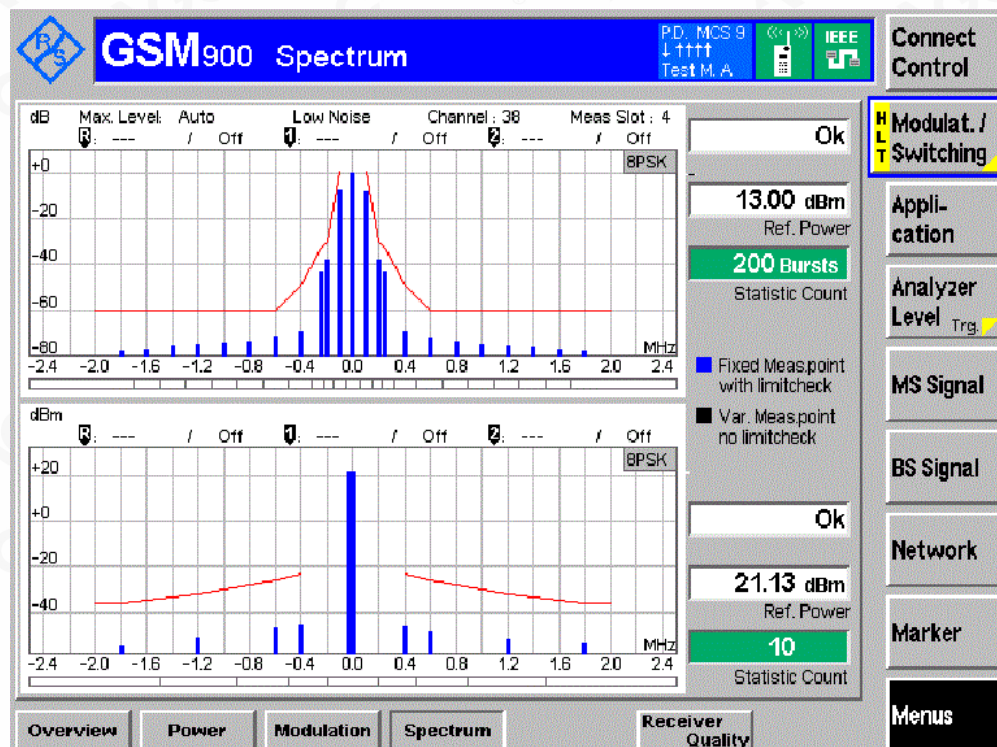
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Channel LCH PCL 8



Channel MCH PCL 8

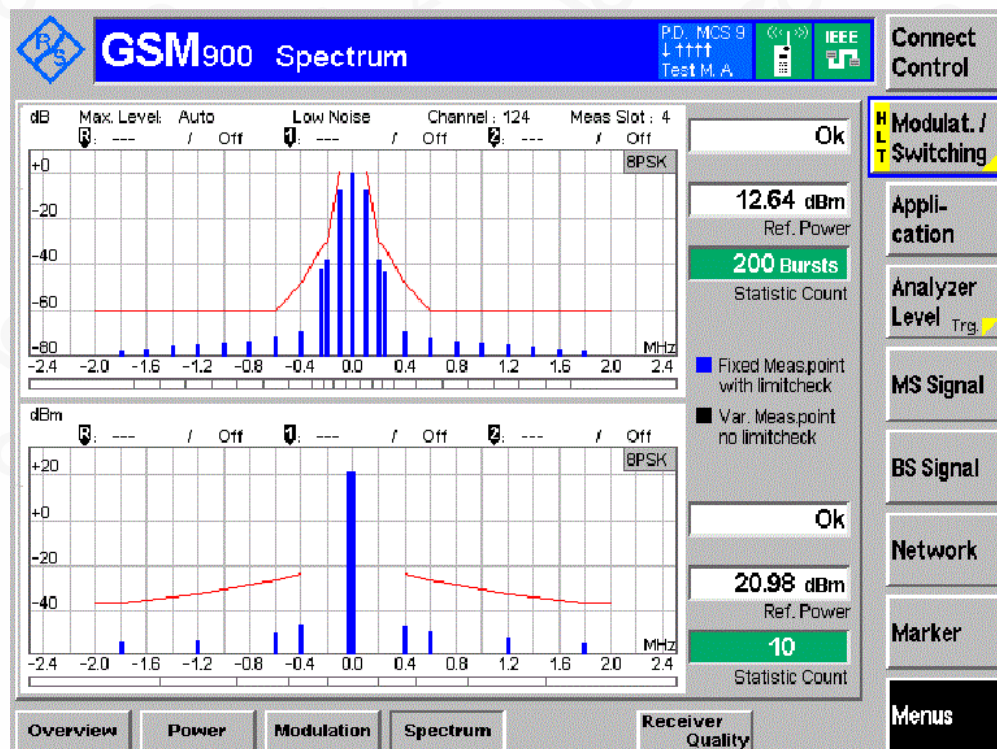


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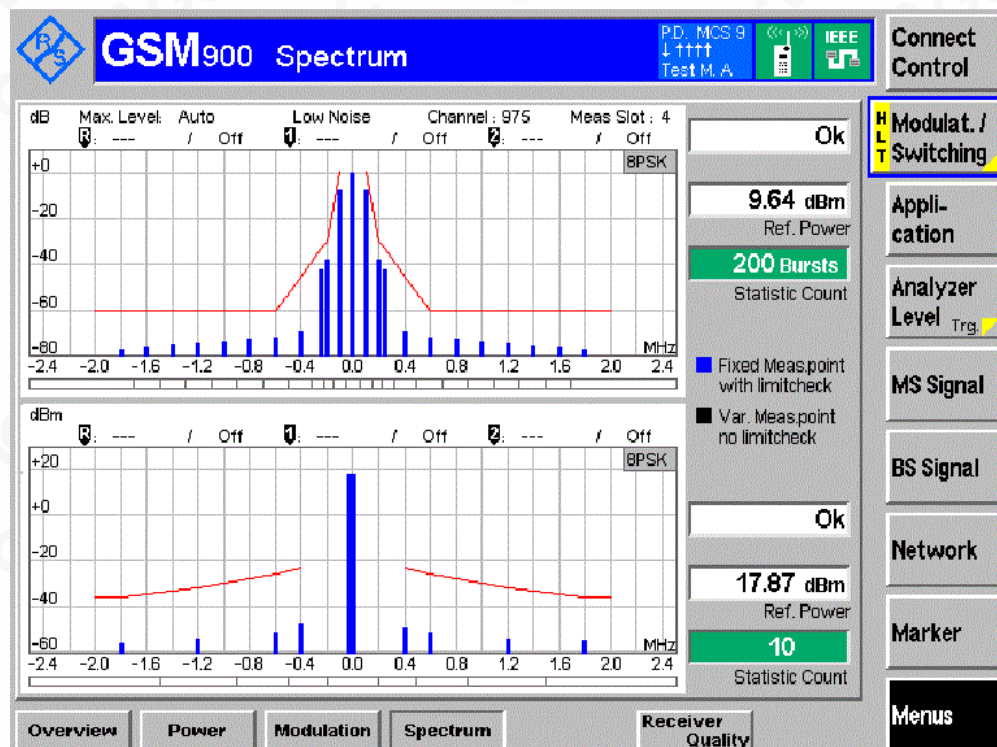
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Channel HCH PCL 8



Channel LCH PCL 12

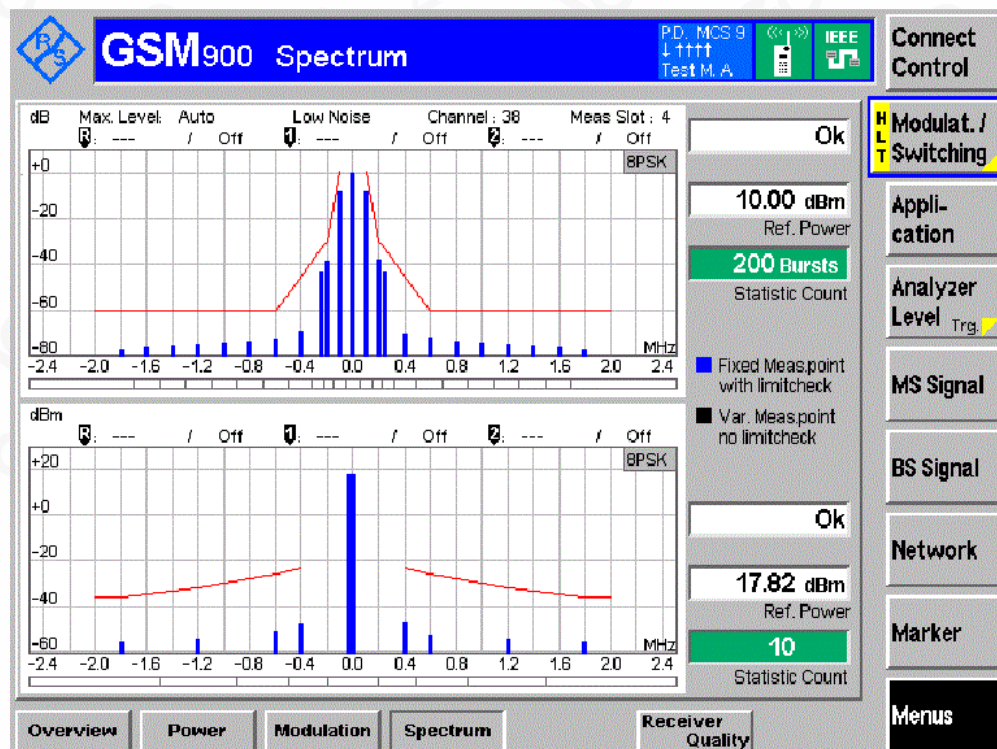


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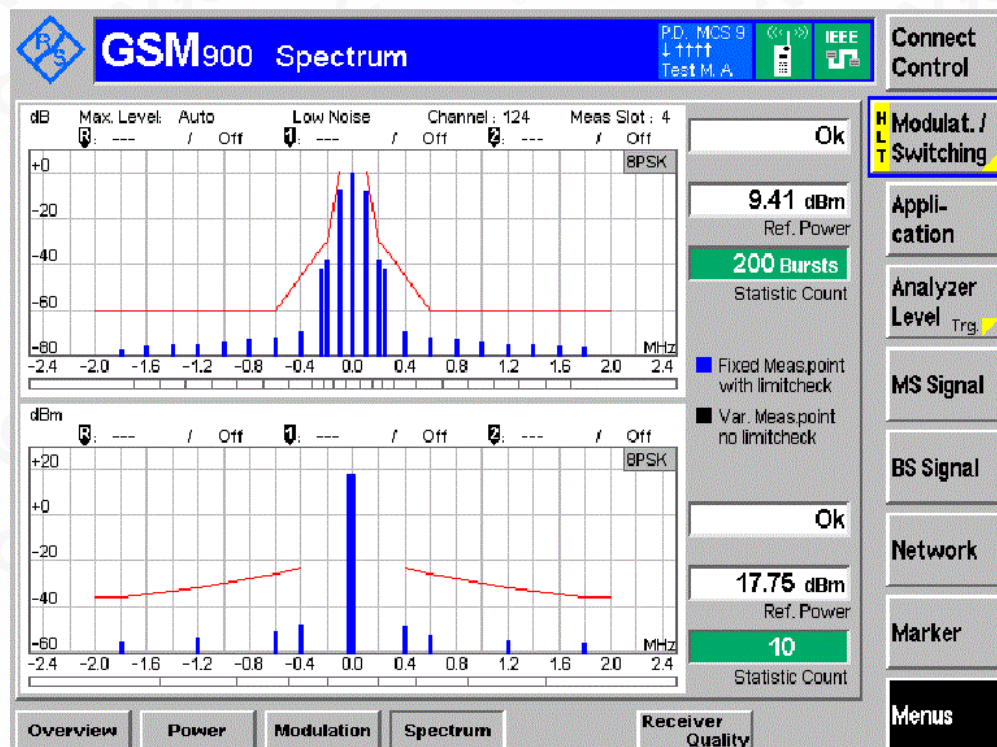
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Channel MCH PCL 12



Channel HCH PCL 12

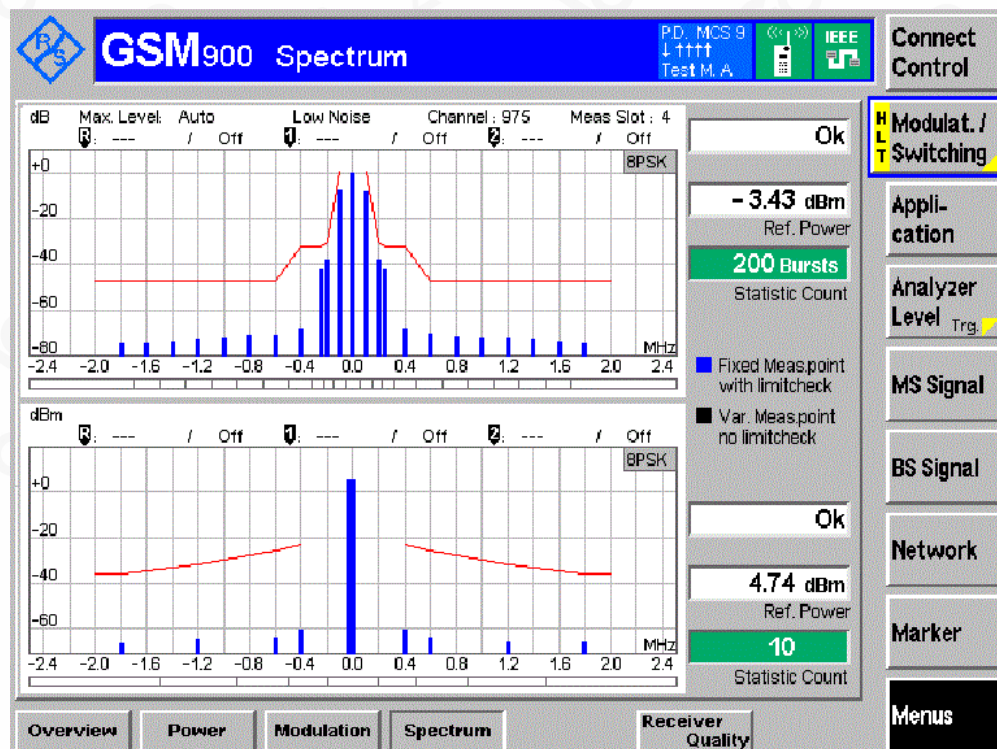


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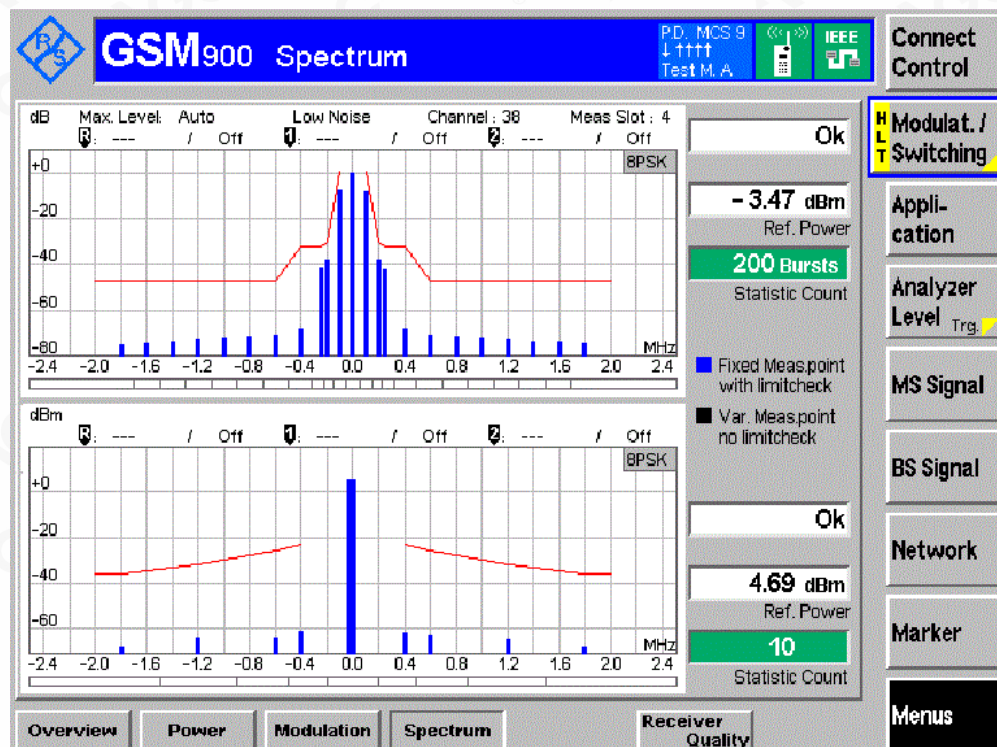
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Channel LCH PCL 19



Channel MCH PCL 19

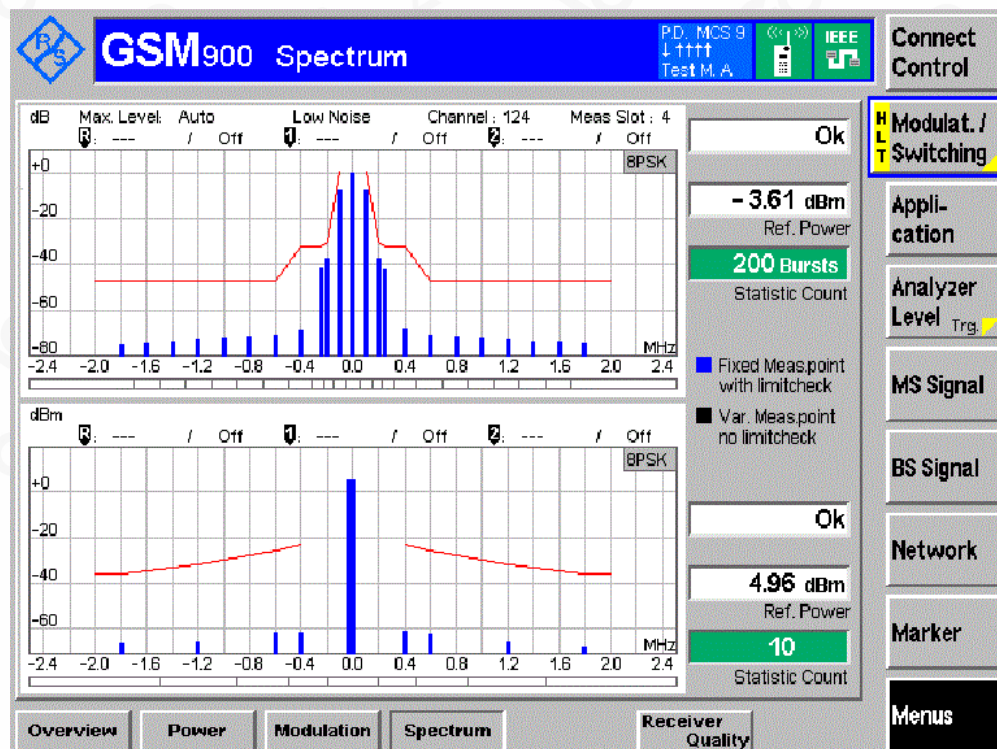


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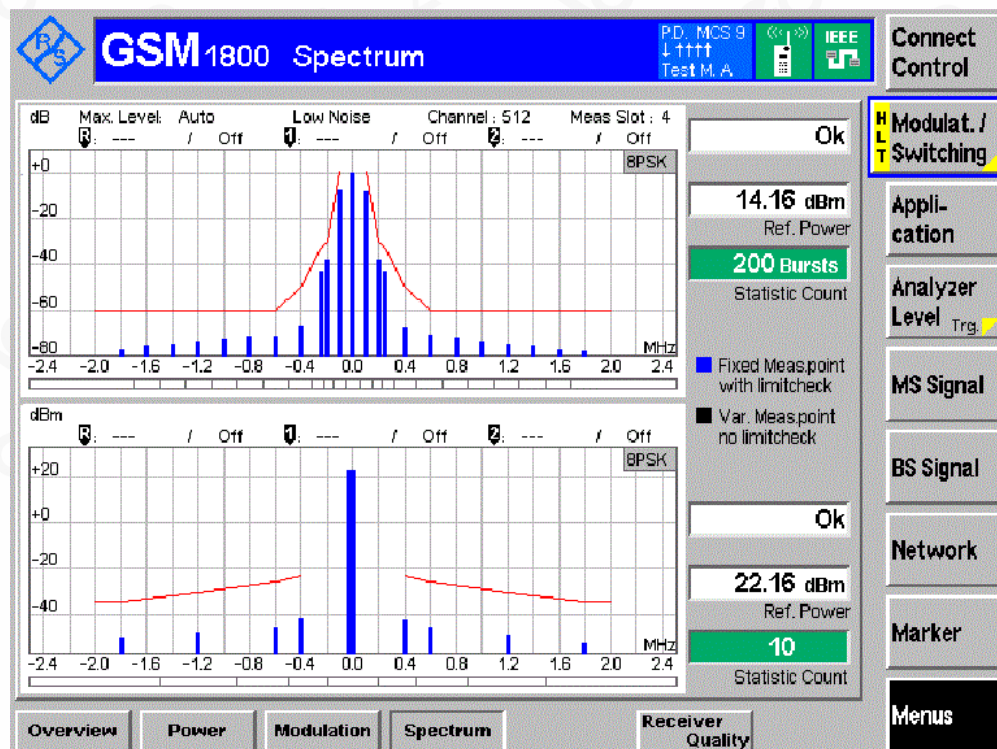


Channel HCH PCL 19



DCS1800 TN,VN

Channel LCH PCL 2



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[illegible]

GSM 1800 Spectrum

PD: MCS 9
Test M.A

Connect Control

Modulat. / Switching

Application

Analyzer Level

MS Signal

BS Signal

Network

Marker

Menus

dBm

Max. Level: Auto / Off

Low Noise: Off

Channel: 885

Meas Slot: 4

dBm

15.10 dBm

Ref. Power

200 Bursts

Statistic Count

23.10 dBm

Ref. Power

10

Statistic Count

Overview

Power

Modulation

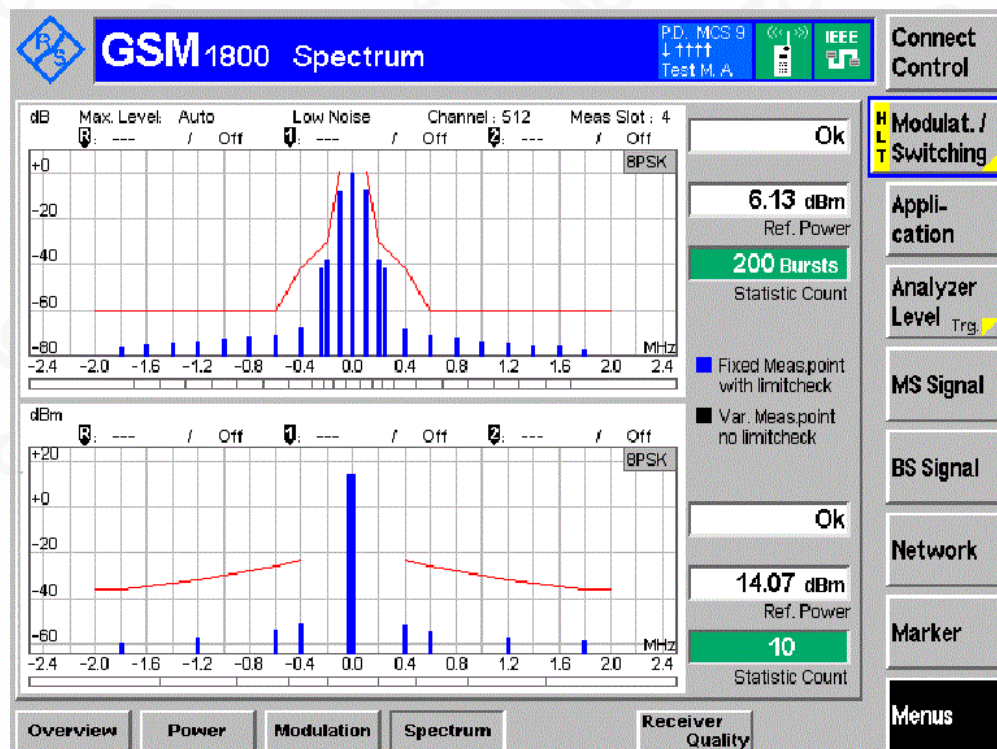
Spectrum

Receiver Quality

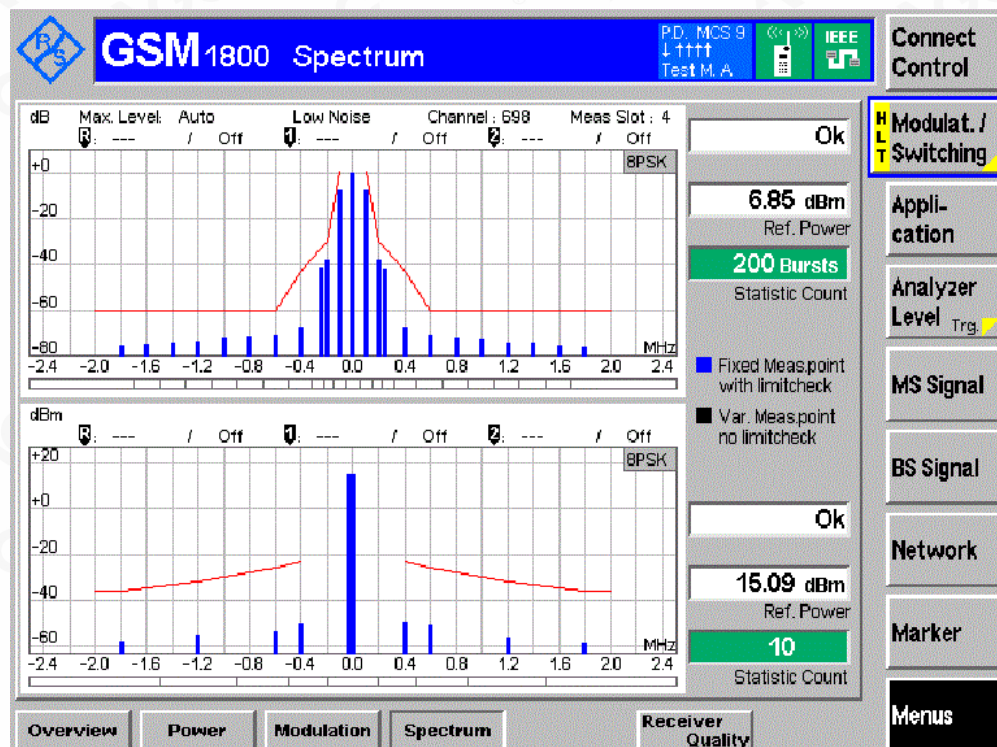
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Channel LCH PCL 8



Channel MCH PCL 8

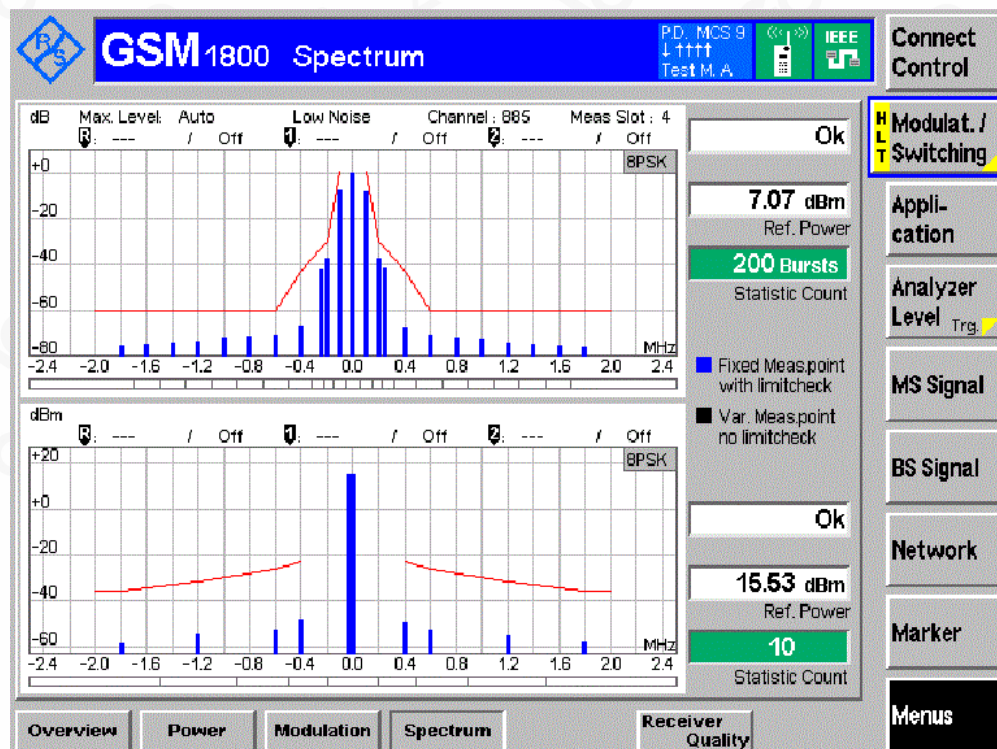


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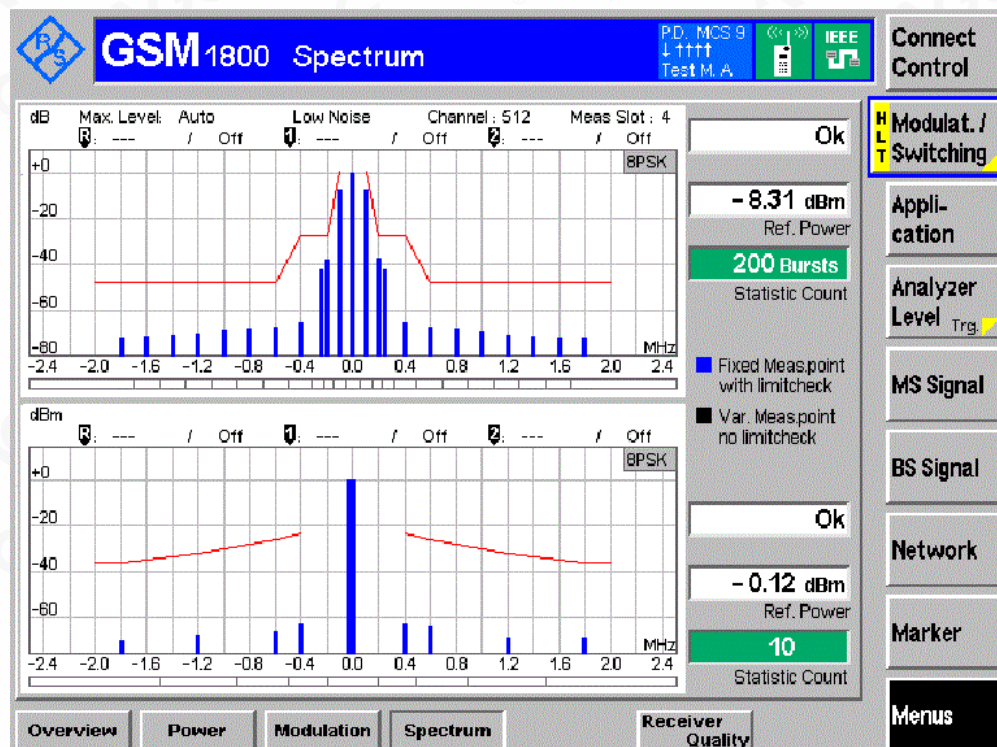
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Channel HCH PCL 8



Channel LCH PCL 15

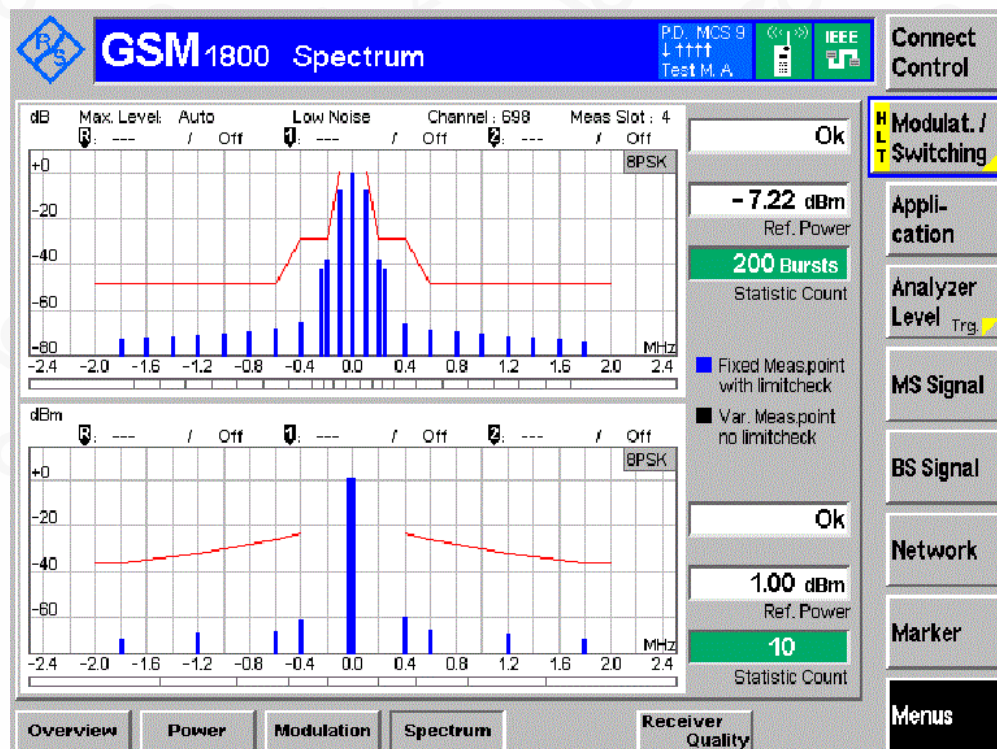


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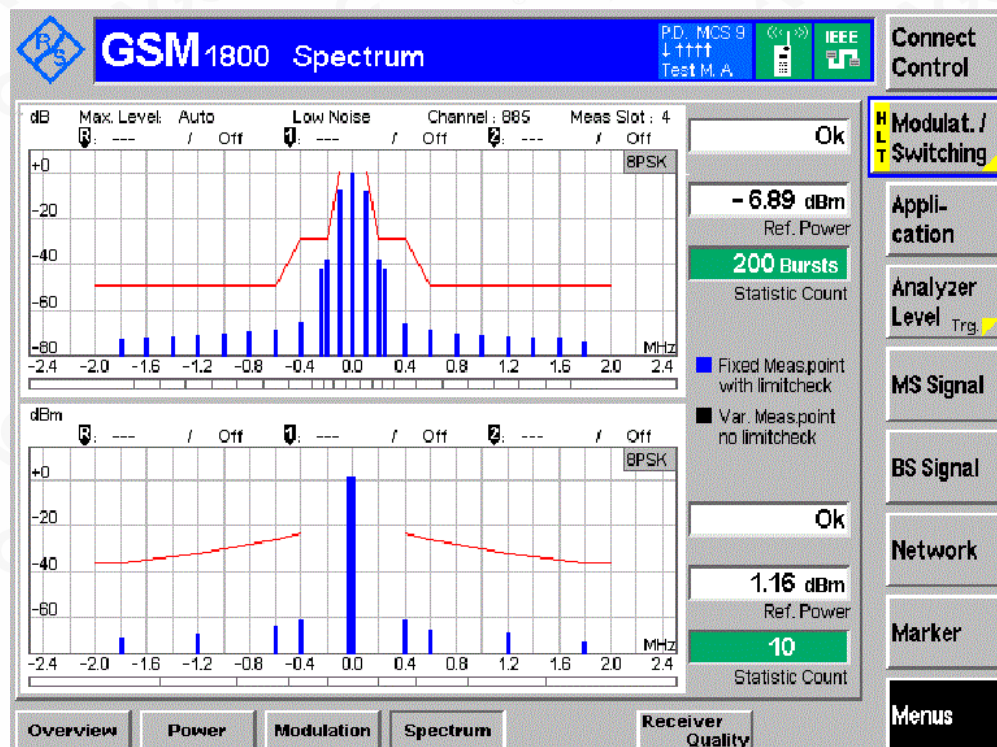
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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix P. Blocking and spurious response in EGPRS configuration

GSM900

FREQUENCY	Measurement Result	
	GSM900	
	Small MS	
	Interference Level in dBμVemf()	Result
FR +/- 600 kHz to FR +/- 800 kHz	70	PASS
FR +/- 800 kHz to FR +/- 1.6 MHz	70	PASS
FR +/- 1.6 MHz to FR +/- 3 MHz	80	PASS
915 MHz to FR - 3 MHz	90	PASS
FR + 3 MHz to 980 MHz	90	PASS
835 MHz to <915 MHz	113	PASS
>980 MHz to 1000 MHz	113	PASS
100 kHz to <835 MHz	113	PASS
>1000 MHz to 12.75 GHz	113	PASS

DCS1800

FREQUENCY	Measurement Result	
	DCS1800	
	Small MS	
	Interference Level in dBμVemf()	Result
FR +/- 600 kHz to FR +/- 800 kHz	70	PASS
FR +/- 800 kHz to FR +/- 1.6 MHz	70	PASS
FR +/- 1.6 MHz to FR +/- 3 MHz	80	PASS
1785 MHz to FR - 3 MHz	87	PASS
FR + 3 MHz to 1920 MHz	87	PASS
100 kHz to 1705 MHz	113	PASS
>1705 MHz to <1785 MHz	101	PASS
>1920 MHz to 1980 MHz	101	PASS
>1980 MHz to 12.75 GHz	113	PASS

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Appendix Q .AM suppression - speech channels

GSM900

Channel	Propagation conditions	Type of measurement	Test limit error rate %	Minimum No. of max-samples	Result	
TCH/FS Class II	Static	RBER	2.439	8200	0.632%	Pass

GSM1800

Channel	Propagation conditions	Type of measurement	Test limit error rate %	Minimum No. of max-samples	Result	
TCH/FS Class II	Static	RBER	2.439	8200	0.812%	Pass

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Appendix R. Intermodulation rejection - EGPRS

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of fellow:

GSM900

	Intermodulation Test Signal Levels	Small MS	Result
TNVN	FIRST INTERFERER dBμVemf()	64	Pass
	SECOND INTERFERER dBμVemf()	63	Pass

GSM1800

	Intermodulation Test Signal Levels	Small MS	Result
TNVN	FIRST INTERFERER dBμVemf()	68	Pass
	SECOND INTERFERER dBμVemf()	68	Pass

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Adjacent S. Adjacent channel rejection – EGPRS

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of fellow:

GSM900

	Channel types	Block per s	Channel types	Derived test limit	Target number of samples	Target test time /s	Target test time /hh:mm:ss	Result
TNVN	USF/MCS-1 to 9	50	0.01	0.01234	27958	559	00:09:19	Pass

GSM1800

	Channel types	Block per s	Channel types	Derived test limit	Target number of samples	Target test time /s	Target test time /hh:mm:ss	Result
TNVN	USF/MCS-1 to 9	50	0.01	0.01234	27958	559	00:09:19	Pass

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Appendix T. Adjacent channel rejection - speech channels (TCH/FS)

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of fellow:

GSM900

	Channel	Interference at	Type of Measurement	Test limit error rate %	Minimum No. of samples	Result
TNVN	TCH/FS class Ib class II	200 kHz	FER RBER RBER	6.742* α 0.420/ α 8.333	8 900 1 000 000 600 000	Pass
	TCH/FS class Ib class II	400 kHz	FER RBER RBER	11.461* α 0.756/ α 9.167	8 900 1 000 000 600 000	Pass

GSM1800

	Channel	Interference at	Type of Measurement	Test limit error rate %	Minimum No. of samples	Result
TNVN	TCH/FS class Ib class II	200 kHz	FER RBER RBER	3.371* α 0.270/ α 8.333	17 800 2 000 000 1 200 000	Pass
	TCH/FS class Ib class II	400 kHz	FER RBER RBER	5.714* α 0.483/ α 9.167	10 500 1 200 000 720 000	Pass

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Appendix U. Reference sensitivity - TCH/FS

Note: Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TN VN) of follow:

GSM900

	Channels	Propagation conditions TUhigh		Propagation conditions RA		Propagation conditions HT		Static conditions		Result
		Test limit Error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	
TNVN	TCH/FS FER class Ib(RBER) class II(RBER)	1	8 900					1	164 000	Pass
		0.06	1 000000	6.55	24 000	5.49	60 000	0.07	20000000	
		4.1	120 000					6.58	8 200	

GSM1800

	Channels	Propagation conditions TUhigh		Propagation conditions RA		Propagation conditions HT		Static conditions		Result
		Test limit Error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	
TNVN	TCH/FS FER class Ib(RBER) class II(RBER)	1	13 400					1	164 000	Pass
		0.06	1500000	5.75	24 000	5.64	30 000	0.07	20000000	
		5.44	60 000					6.58	8 200	

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Appendix V. Reference sensitivity - FACCH/F

GSM900

Channel	Propagation	Type of Measurement	Test limit error rate %	Result	
FACCH/F	TUhigh	FER	7.728	3.246%	Pass

GSM1800

Channel	Propagation	Type of Measurement	Test limit error rate %	Result	
FACCH/F	TUhigh	FER	8.064	3.128%	Pass

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AppendixW. Minimum Input level for Reference Performance - GPRS

GSM900

	Type of channel	Propagation conditions							Result
		static	TUhigh (no FH)	TUhigh (ideal FH)	RA (no FH)	HT (no FH)	BLER		
GSM 900									
TNVN	PDTCH/CS-1 dBm	-104	-104	-104	-104	-103	10 %	0.1 %	Pass
	PDTCH/CS-2 dBm	-104	-100	-101	-101	-99	10 %	0.1 %	Pass
	PDTCH/CS-3 dBm	-104	-98	-99	-98	-96	10 %	0.1 %	Pass
	PDTCH/CS-4 dBm	-101	-90	-90	--		10 %	0.1 %	Pass
	USF/CS-1 dBm	< -104	<-101	<-103	<-103	<-101	1 %	0.1 %	Pass
	USF/CS-2to 4 dBm	< -104	<-103	<-104	<-104	<-104	1 %	0.1 %	Pass

GSM1800

	Type of channel	Propagation conditions							Result
		static	TUhigh (no FH)	TUhigh (ideal FH)	RA (no FH)	HT (no FH)	BLER		
	GSM 1800								
TNVN	PDTCH/CS-1 dBm	-104	-104	-104	-104	-109	10 %	0.1 %	Pass
	PDTCH/CS-2 dBm	-104	-100	-100	-101	-99	10 %	0.1 %	Pass
	PDTCH/CS-3 dBm	-104	-98	-98	-98	-94	10 %	0.1 %	Pass
	PDTCH/CS-4 dBm	-101	-88	-88	--		10 %	0.1 %	Pass
	USF/CS-1 dBm	< -104	<-103	<-103	<-103	<-101	1 %	0.1 %	Pass
	USF/CS-2to 4 dBm	< -104	<-104	<-104	<-104	<-103	1 %	0.1 %	Pass

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Appendix X. Minimum Input level for Reference Performance – EGPRS

Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 TNVN) of fellow:

GSM900

	Type of Channel	Propagation conditions					Result
		static	TUhigh (no FH)	TUhigh (ideal FH)	RA (no FH)	HT (no FH)	
TNVN	USF/MCS-5 to 9 dBm	-102	-97.5	-99	-100	-99	Pass

GSM1800

	Type of Channel	Propagation conditions					Result
		static	TUhigh (no FH)	TUhigh (ideal FH)	RA (no FH)	HT (no FH)	
TNVN	USF/MCS-5 to 9 dBm	-102	-97.5	-99	-100	-99	Pass

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Appendix Y. Radiated spurious emissions - MS in idle mode

Note: All test modes were carried out for all operation modes and record the worst test mode (GSM 900/1800 MCH VN) of fellow

GSM900

Radiated spurious emissions	GSM900 VN			
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
30MHz~880MHz	10k	-57	-61.10	PASS
880MHz~915MHz	10k	-59	-60.05	PASS
915MHz~1000MHz	100k	-57	-70.37	PASS
1GHz~1710MHz	100k	-47	-65.78	PASS
1710MHz~1785MHz	100k	-53	-60.93	PASS
1785MHz~4GHz	100k	-47	-62.44	PASS

GSM1800

Radiated spurious emissions	GSM1800 VN			
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
30MHz~880MHz	10k	-57	-61.25	PASS
880MHz~915MHz	10k	-59	-64.78	PASS
915MHz~1000MHz	100k	-57	-61.91	PASS
1GHz~1710MHz	100k	-47	-65.43	PASS
1710MHz~1785MHz	100k	-53	-63.28	PASS
1785MHz~4GHz	100k	-47	-61.42	PASS

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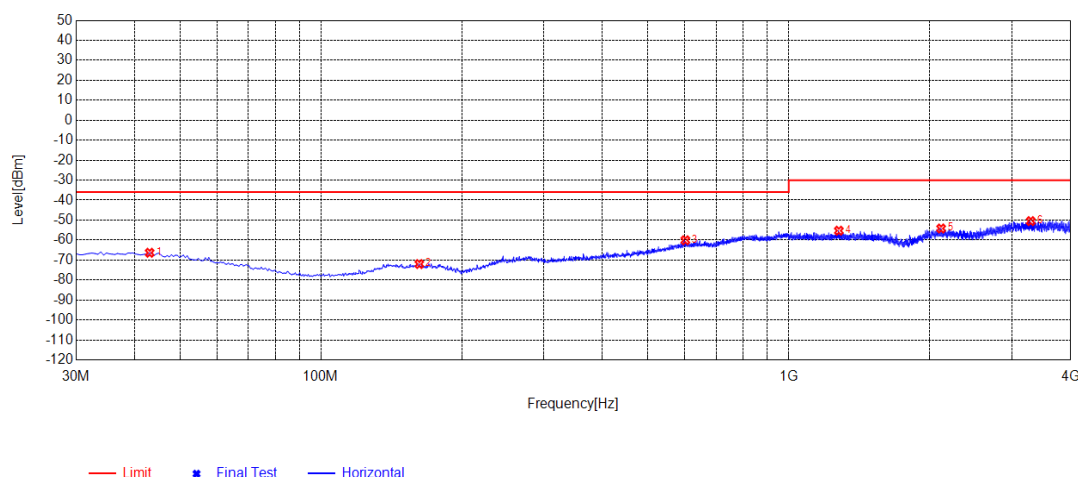
APPENDIX Z. RADIATED SPURIOUS EMISSIONS TEST RESULT

All test modes were carried out for all operation modes

The (middle channel) was showed as the follow:

Note: The filter has been used in this test.

RADIATED SPURIOUS EMISSIONS GSM 900– HORIZONTAL



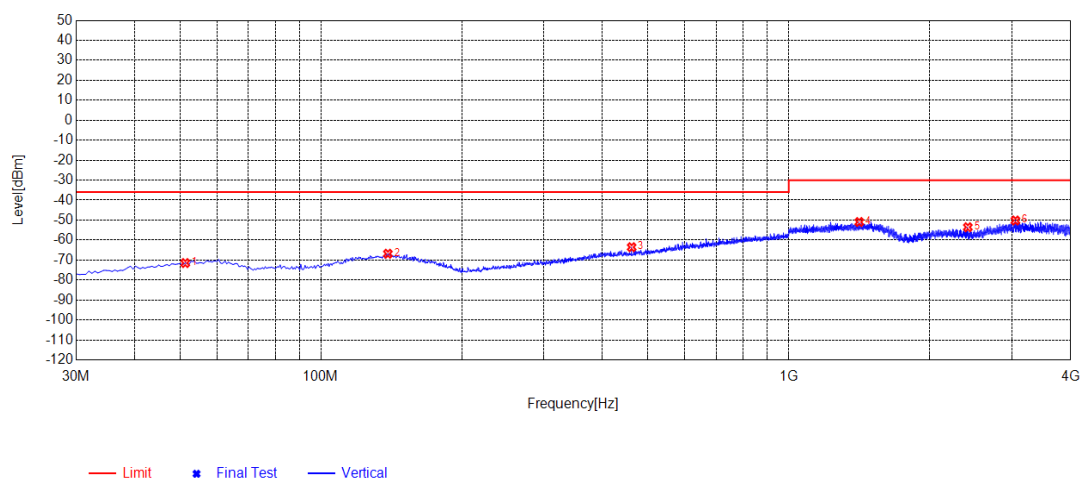
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	43.0950	-100.95	-66.36	-36.00	30.36	34.59	62	Horizontal
2	162.4050	-101.35	-72.01	-36.00	36.01	29.34	139	Horizontal
3	601.3300	-99.95	-60.10	-36.00	24.10	39.85	266	Horizontal
4	1279.6280	-51.64	-55.31	-30.00	25.31	-3.67	104	Horizontal
5	2116.4116	-54.28	-54.21	-30.00	24.21	0.07	12	Horizontal
6	3289.5290	-54.33	-50.52	-30.00	20.52	3.81	181	Horizontal

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RADIATED SPURIOUS EMISSIONS GSM 900- VERTICAL



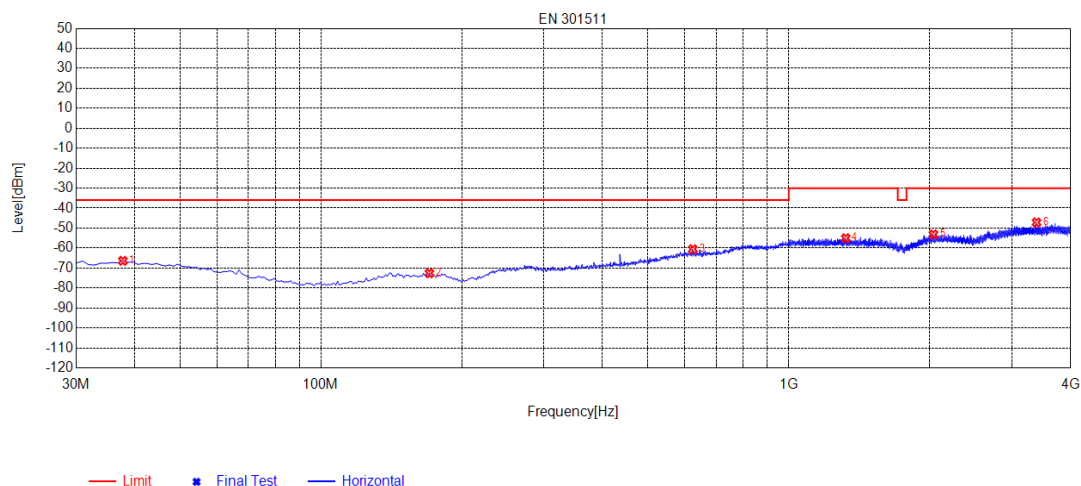
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	51.3400	-101.54	-71.52	-36.00	35.52	30.02	360	Vertical
2	139.1250	-101.18	-66.85	-36.00	30.85	34.33	339	Vertical
3	461.6500	-99.42	-63.57	-36.00	27.57	35.85	9	Vertical
4	1414.9415	-52.56	-50.96	-30.00	20.96	1.60	296	Vertical
5	2413.7414	-52.73	-53.56	-30.00	23.56	-0.83	330	Vertical
6	3050.7051	-53.40	-50.21	-30.00	20.21	3.19	296	Vertical

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RADIATED SPURIOUS EMISSIONS GSM 1800- HORIZONTAL



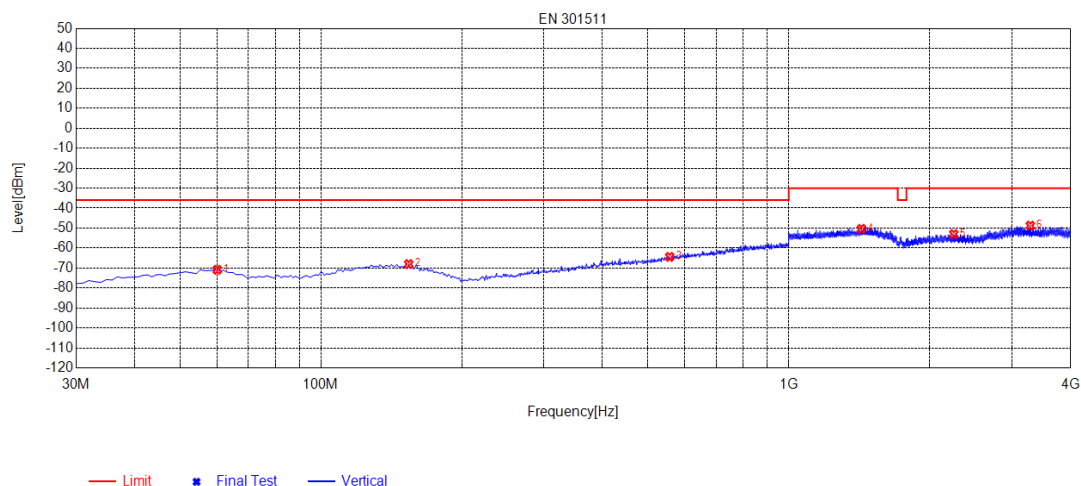
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	37.7600	-101.29	-66.40	-36.00	30.40	34.89	155	Horizontal
2	170.6500	-102.04	-72.61	-36.00	36.61	29.43	359	Horizontal
3	623.6400	-100.48	-60.57	-36.00	24.57	39.91	43	Horizontal
4	1323.4323	-51.48	-55.06	-30.00	25.06	-3.58	183	Horizontal
5	2037.5038	-53.55	-53.17	-30.00	23.17	0.38	43	Horizontal
6	3383.4383	-51.14	-47.17	-30.00	17.17	3.97	118	Horizontal

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RADIATED SPURIOUS EMISSIONS GSM 1800- VERTICAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	60.0700	-102.23	-70.87	-36.00	34.87	31.36	55	Vertical
2	154.1600	-101.42	-68.01	-36.00	32.01	33.41	130	Vertical
3	556.7100	-102.11	-64.40	-36.00	28.40	37.71	186	Vertical
4	1430.2430	-52.09	-50.39	-30.00	20.39	1.70	46	Vertical
5	2252.9253	-52.66	-53.01	-30.00	23.01	-0.35	74	Vertical
6	3282.9283	-51.92	-48.79	-30.00	18.79	3.13	186	Vertical

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED SPURIOUS EMISSION TEST SETUP



RADIATED SPURIOUS EMISSION ABOVE 1G TEST SETUP



----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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