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# RF Test Report

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Report No.: AGC00552200501EE07A

**PRODUCT DESIGNATION** : Smart Phone  
**BRAND NAME** : HAFURY  
**MODEL NAME** : M20  
**APPLICANT** : Shenzhen Huafurui Technology Co., Ltd.  
**DATE OF ISSUE** : Jul. 22, 2020  
**STANDARD(S)** : EN 301 908-1 V13.1.1(2019-11)  
: 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	/	Jul. 22, 2020	Valid	Re-certification

Note: The original test report Ref. No.( AGC00552200501EE07) (dated 2020-06-08), was modified on 2020-07-22 to include the following changes for:

- Updated brand name and model name;
- Updated battery brand name and model name;
- Changed software version. (It changes due to the change of the product model, does not affect the test result

For the above described changes, no further testing necessary.



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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>	HAFURY
<b>Test Model</b>	M20
<b>Date of test</b>	May 25, 2020~Jun. 08, 2020
<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. The test results of this report relate only to the tested sample identified in this report.

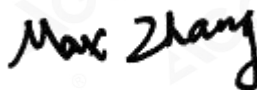
Prepared By



Calvin Liu  
(Project Engineer)

Jun. 08, 2020

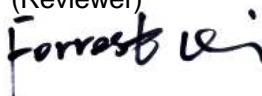
Reviewed By



Max Zhang  
(Reviewer)

Jul. 22, 2020

Approved By



Forrest Lei  
Authorized Officer

Jul. 22, 2020





## 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	HAFURY
Test Model	M20
Product Type	UMTS
Hardware Version	TE647_MAIN_PCN_V1.0
Software Version	HAFURY_M20_A041CH_V03_20200713
UMTS Frequency Bands	<input checked="" type="checkbox"/> FDD Band I <input checked="" type="checkbox"/> FDD Band VIII (EU Bands) <input type="checkbox"/> FDD Band V <input type="checkbox"/> FDD Band II (Non-EU Bands)
Modulation Mode	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Type	PIFA antenna
Antenna Gain	FDD Band I:1.98dBi, FDD Band VIII:2.4dBi
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 APPENX A for photographs of the EUT.

#### 2.1.3. IDENTIFICATION OF SAMPLES EUT

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

##### SAMPLE A01

Sample Reference Number	A01
Factory Name	Shenzhen Huafului Technology Co., Ltd.
Test Model	M20
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. 25, 2020	Feb. 24, 2021
2	CMU200	R&S	120237	July 13, 2019	July 12, 2020
3	Wireless communication test set 8960	Agilent	GB46200384	July 11, 2019	July 10, 2020
4	Power Splitter 11636A	Agilent	34	Sep.18, 2019	Sep.17, 2020
5	Attenuator	JFW	50FHC-006-50	June 12, 2019	June 11, 2020
6	Vector Signal Generator SMU200A	R&S	104332	Sep.18, 2019	Sep.17, 2020
7	VECTOR ANALYZER E4440A	Agilent	MY44303916	June 12, 2019	June 11, 2020
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	Attenuator	JFW	50FHC-006-50	June 12, 2019	June 11, 2020
15	EMI Test Receiver ESCI	R&S	10096	June 12, 2019	June 11, 2020
16	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	May 17, 2019	May 16, 2021
17	Trilog Broadband Antenna	SCHWARZBECK	VULB9168-494	Jan, 09, 2019	Jan. 08, 2021
18	LOOP ANTENNA SAS-562B	A.H	/	Feb. 27, 2020	Feb. 26, 2021



No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
19	Artificial Mains Network ENV4200	R&S	101116	July 11, 2019	July 10, 2020
20	Artificial Mains Network ENV216	R&S	101242	July 11, 2019	July 10, 2020
21	Filter Bank Notch 1(880-915MHz)	MICRO-TRONI CS	010	Feb. 25, 2020	Feb. 24, 2021
22	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONI CS	009	Feb. 25, 2020	Feb. 24, 2021
23	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONI CS	008	Feb. 25, 2020	Feb. 24, 2021





#### 4. MEASUREMENT UNCERTAINTY

Parameter	Conditions	Test System Uncertainty
Transmitter Maximum Output power	--	±0,6dB
Transmitter spectrum emissions mask	--	±1,4 dB
Transmitter spurious emissions	$f \leq 2,2 \text{ GHz}$ $2,2 \text{ GHz} < f \leq 4 \text{ GHz}$ $f > 4 \text{ GHz}$ Co-existence band ( $\geq -60 \text{ dBm}$ ) Co-existence band ( $< -60 \text{ dBm}$ )	±1,35 dB ±1.8 dB ±3.5 dB ±1.8 dB ±2.7 dB
Transmitter Minimum output power	--	±0.8 dB
Receiver Adjacent Channel Selectivity(ACS)	--	±0.9 dB
Receiver Blocking characteristics	$f < 15 \text{ MHz offset:}$ $15 \text{ MHz offset} \leq f \leq 2,2 \text{ GHz}$ $2,2 \text{ GHz} < f \leq 4 \text{ GHz}$ $f > 4 \text{ GHz}$	±1,1 dB ±0.8 dB ±1,5 dB ±2.9 dB
Receiver spurious response	$f \leq 2,2 \text{ GHz}$ $2,2 \text{ GHz} < f \leq 4 \text{ GHz}$ $f > 4 \text{ GHz}$	±0.8 dB ±1,5 dB ±2.9 dB
Receiver intermodulation characteristics	--	±1,2 dB
Receiver spurious emissions	For UE receive band (-60 dBm) For UE transmit band (-60 dBm) Outside the UE receive band: $f \leq 2,2 \text{ GHz}$ $2,2 \text{ GHz} < f \leq 4 \text{ GHz}$ $f > 4 \text{ GHz}$	±2.8 dB ±2.9 dB ±1.8 dB ±1.7 dB ±3.6 dB
Out of synchronization of handing power	DPCCH Ec/Ior Transmit OFF power	±0,3 dB ±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	30 ... 75 %
Air Pressure	980 ... 1020 kPa
Adapter Test Model Name	TPA-97050100VU
Details of Power Supply (Rated Input)	AC100-240V, 50/60Hz, 0.15A
Details of Power Supply (Rated Output)	DC5.0V,1000mA
Extreme Temperature	Low Temperature (TL) = -10°C High Temperature (TH) = +40°C
Extreme Voltage of the EUT	Low Voltage = DC 3.23V Normal Voltage= DC 3.80V High Voltage = DC 4.35V

**Note:** The Limit Voltage 4.35V 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
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





**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



	(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:** The test result is SIM Card 1 ( only SIM Card 1 support WCDMA ) and recorded in the test report.



### Appendix A. Transmitter maximum output power

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I&BAND VIII TNVN ) of fellow:

Operating Band	Test Conditions	Test Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	23.50	24(+1.7/-3.7)	Pass
		MCH	23.64	24(+1.7/-3.7)	Pass
		HCH	23.54	24(+1.7/-3.7)	Pass
Band VIII	TNVN	LCH	22.86	24(+1.7/-3.7)	Pass
		MCH	22.80	24(+1.7/-3.7)	Pass
		HCH	23.17	24(+1.7/-3.7)	Pass

### Appendix B. Transmitter minimum output power

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I&BAND VIII TNVN ) of fellow:

Operating Band	Test Conditions	Test Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	-52.96	-49	Pass
		MCH	-54.11	-49	Pass
		HCH	-54.12	-49	Pass
Band VIII	TNVN	LCH	-54.53	-49	Pass
		MCH	-55.14	-49	Pass
		HCH	-54.75	-49	Pass





## Appendix C. Transmitter spectrum emission mask

### BAND I

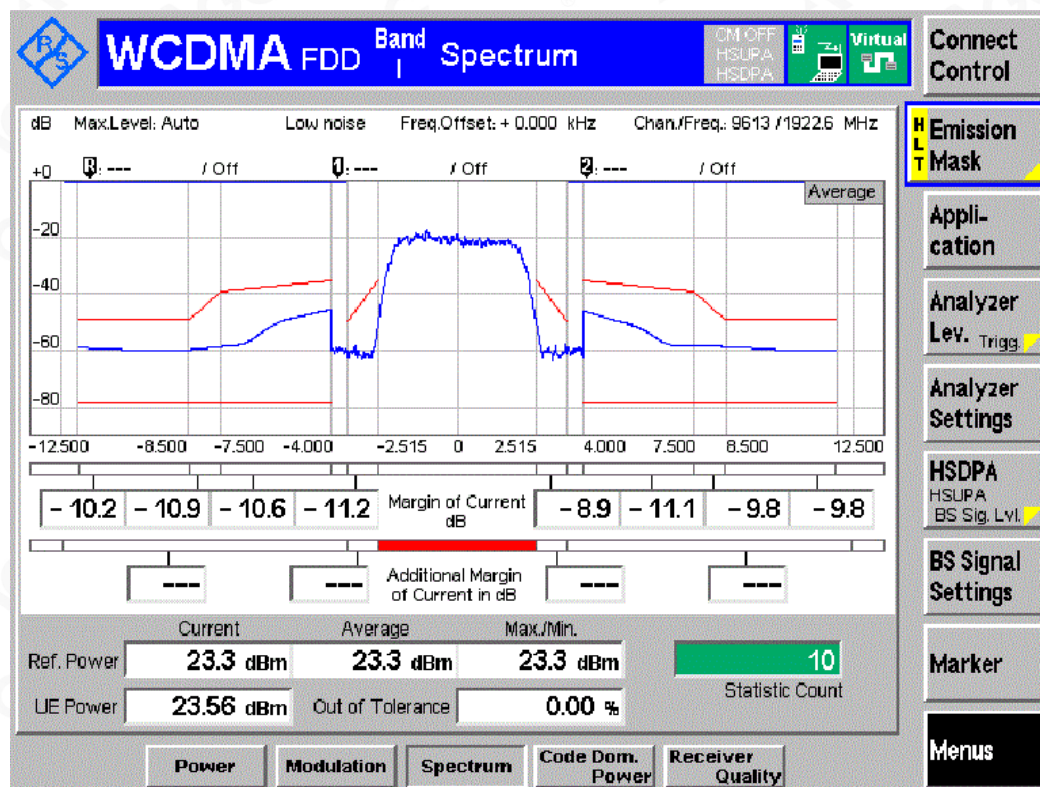
Operating Band	Test Conditions	$\Delta f$ in MHz	Test Channel		
			LCH	MCH	HCH
Band I	TNVN	2.5-3.5	PASS	PASS	PASS
		3.5-7.5			
		7.5-8.5			
		8.5-12.5 MHz			

### BAND VIII

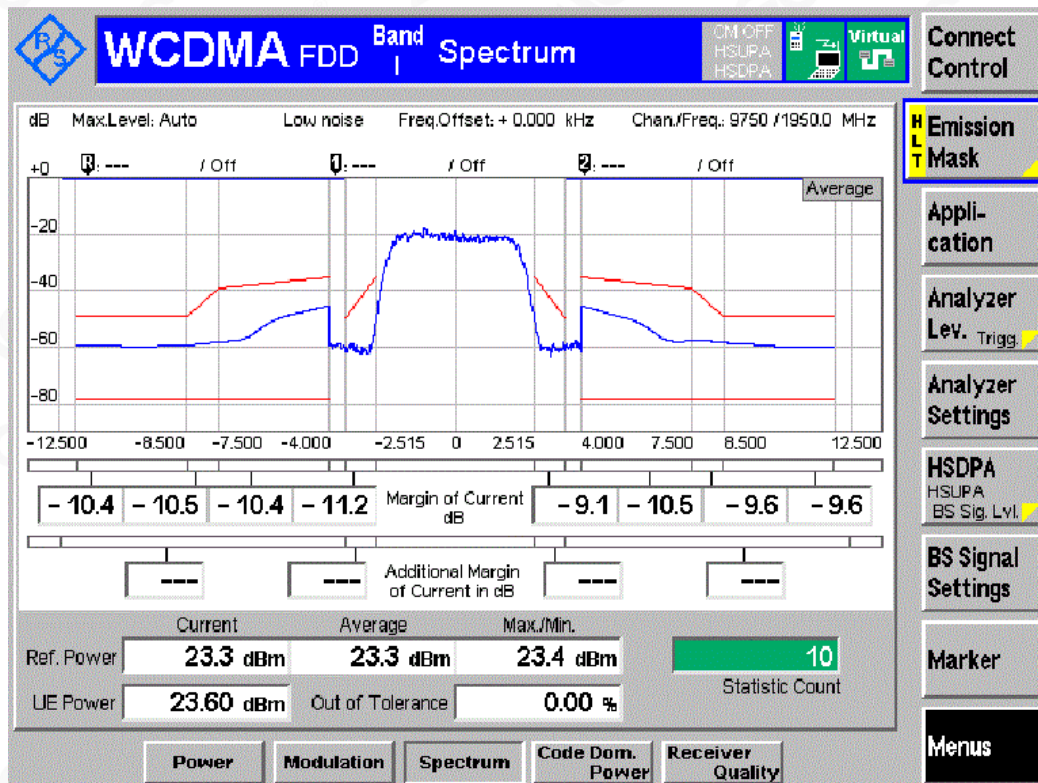
Operating Band	Test Conditions	$\Delta f$ in MHz	Test Channel		
			LCH	MCH	HCH
Band VIII	TNVN	2.5-3.5	PASS	PASS	PASS
		3.5-7.5			
		7.5-8.5			
		8.5-12.5 MHz			

### BAND I

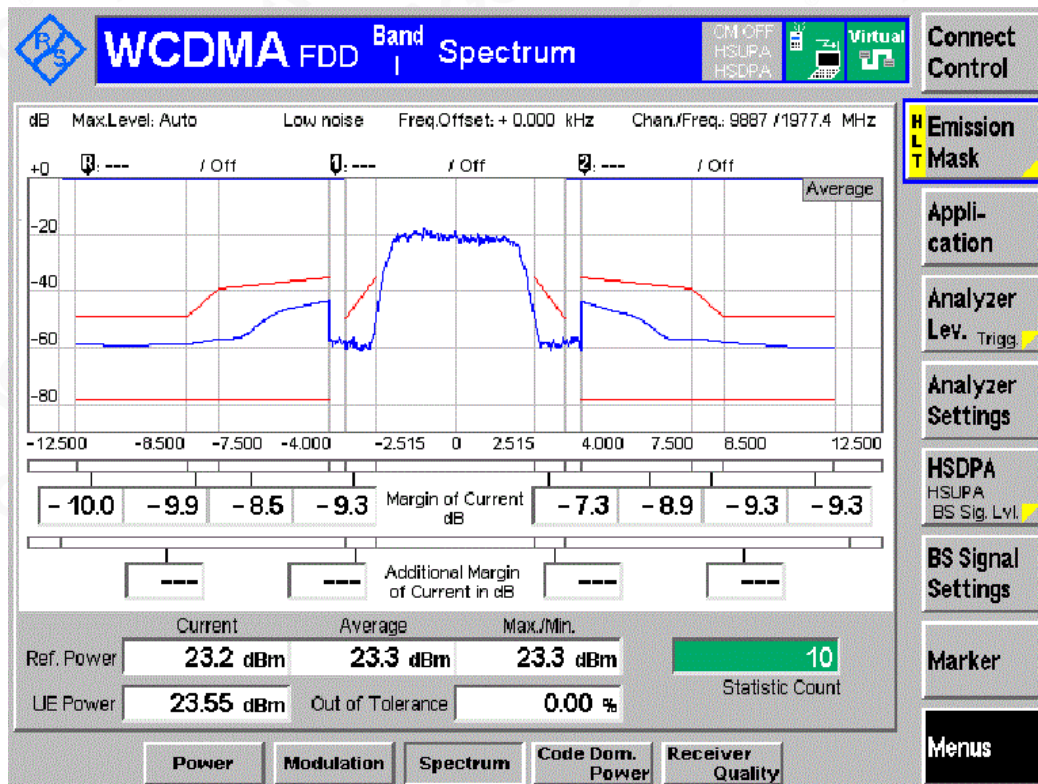
#### Channel LCH



## Channel MCH

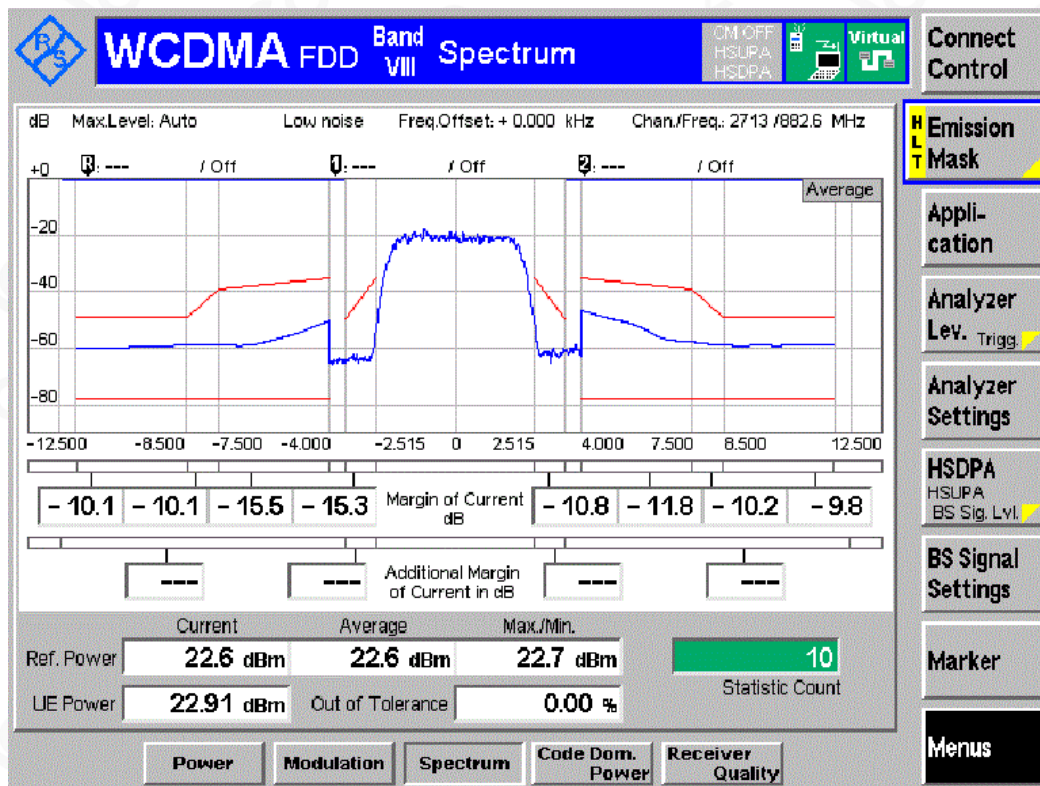


## Channel HCH

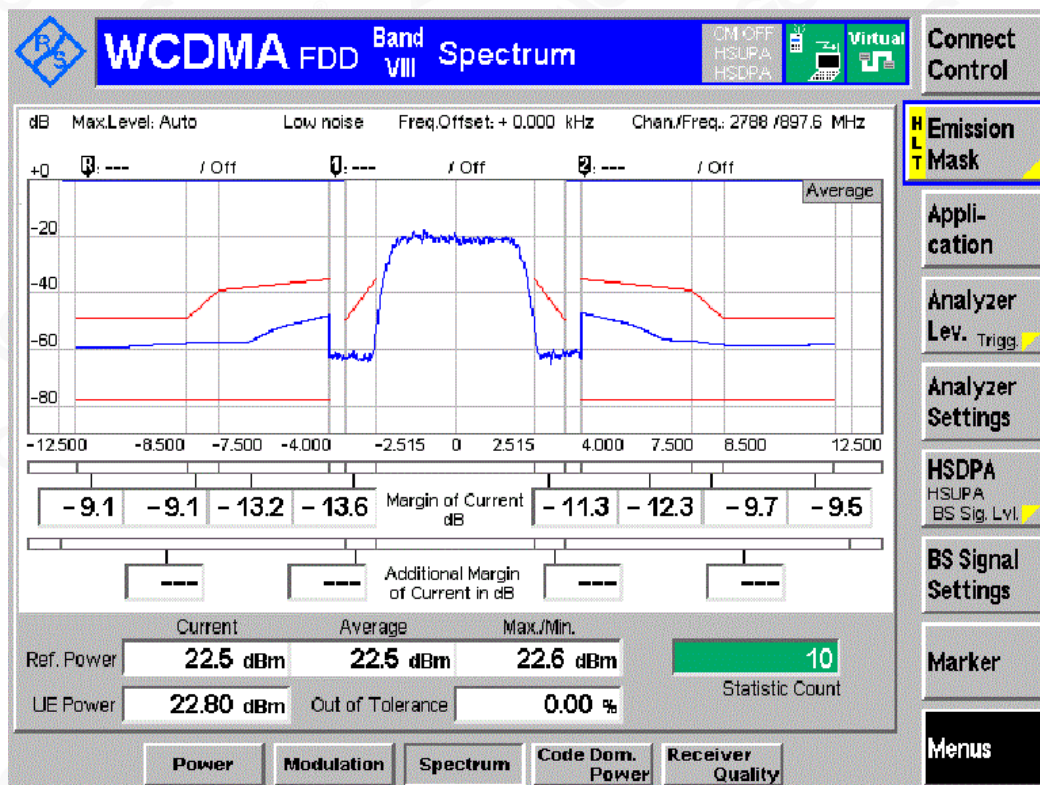




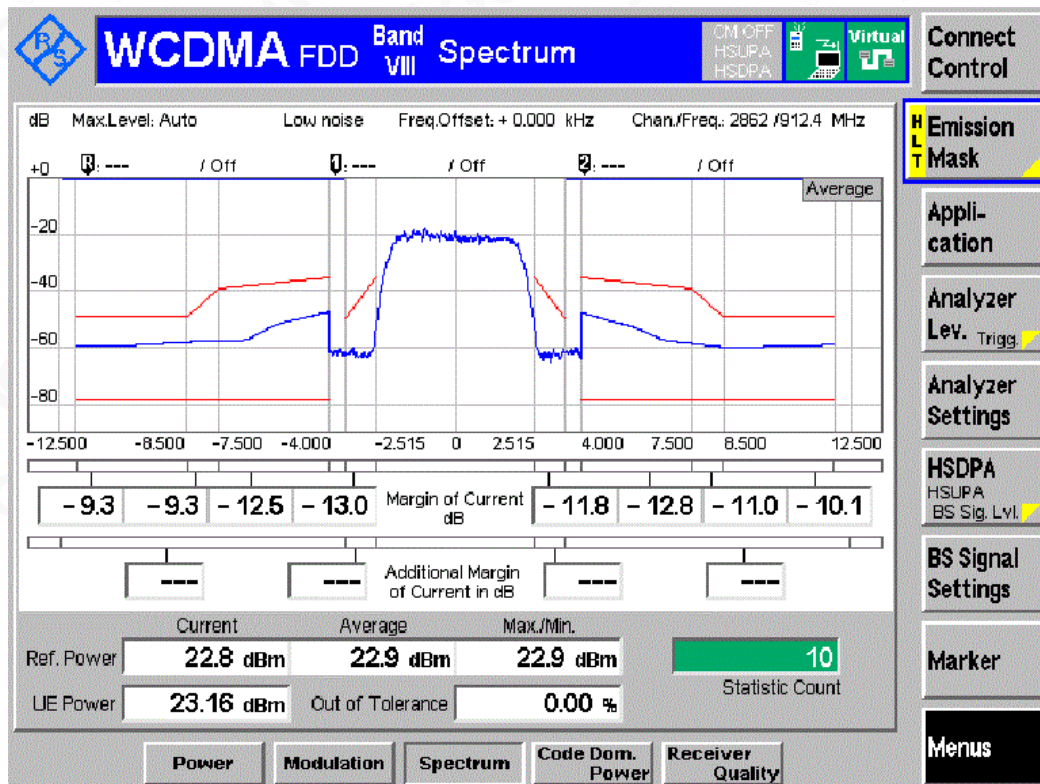
**BAND VIII**  
**Channel LCH**



## Channel MCH



## Channel HCH





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

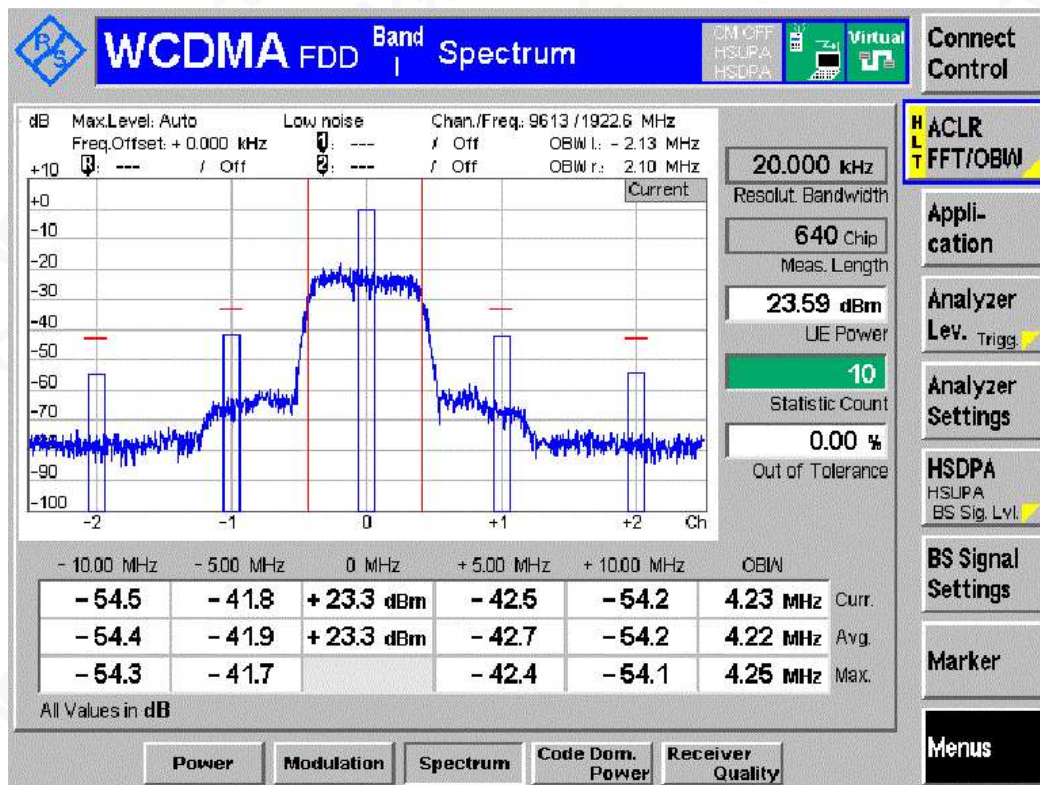
Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I&BAND VIII TNVN ) of fellow:

Operating Band	Test Conditions	Test Channel	UE Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	+5MHz	-42.72	-32.2	Pass
			-5 MHz	-41.91	-32.2	Pass
			-10 MHz	-54.39	-42.2	Pass
			+10 MHz	-54.22	-42.2	Pass
		MCH	+5MHz	-42.37	-32.2	Pass
			-5 MHz	-42.03	-32.2	Pass
			-10 MHz	-54.28	-42.2	Pass
			+10 MHz	-54.04	-42.2	Pass
		HCH	+5MHz	-40.74	-32.2	Pass
			-5 MHz	-40.20	-32.2	Pass
			-10 MHz	-53.97	-42.2	Pass
			+10 MHz	-53.85	-42.2	Pass
Band VIII	TNVN	LCH	+5MHz	-44.09	-32.2	Pass
			-5 MHz	-47.90	-32.2	Pass
			-10 MHz	-53.94	-42.2	Pass
			+10 MHz	-53.50	-42.2	Pass
		MCH	+5MHz	-43.90	-32.2	Pass
			-5 MHz	-44.94	-32.2	Pass
			-10 MHz	-53.60	-42.2	Pass
			+10 MHz	-53.49	-42.2	Pass
		HCH	+5MHz	-44.74	-32.2	Pass
			-5 MHz	-44.35	-32.2	Pass
			-10 MHz	-53.40	-42.2	Pass
			+10 MHz	-54.34	-42.2	Pass

# BAND I

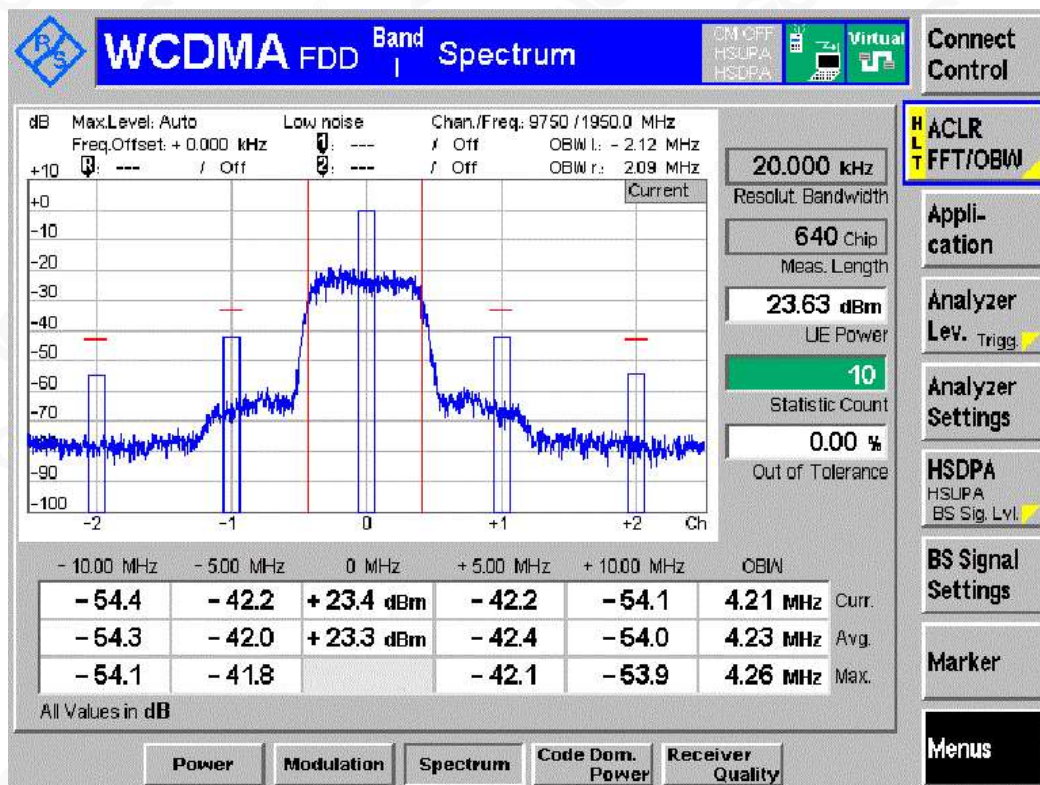
## TNVN

Channel LCH

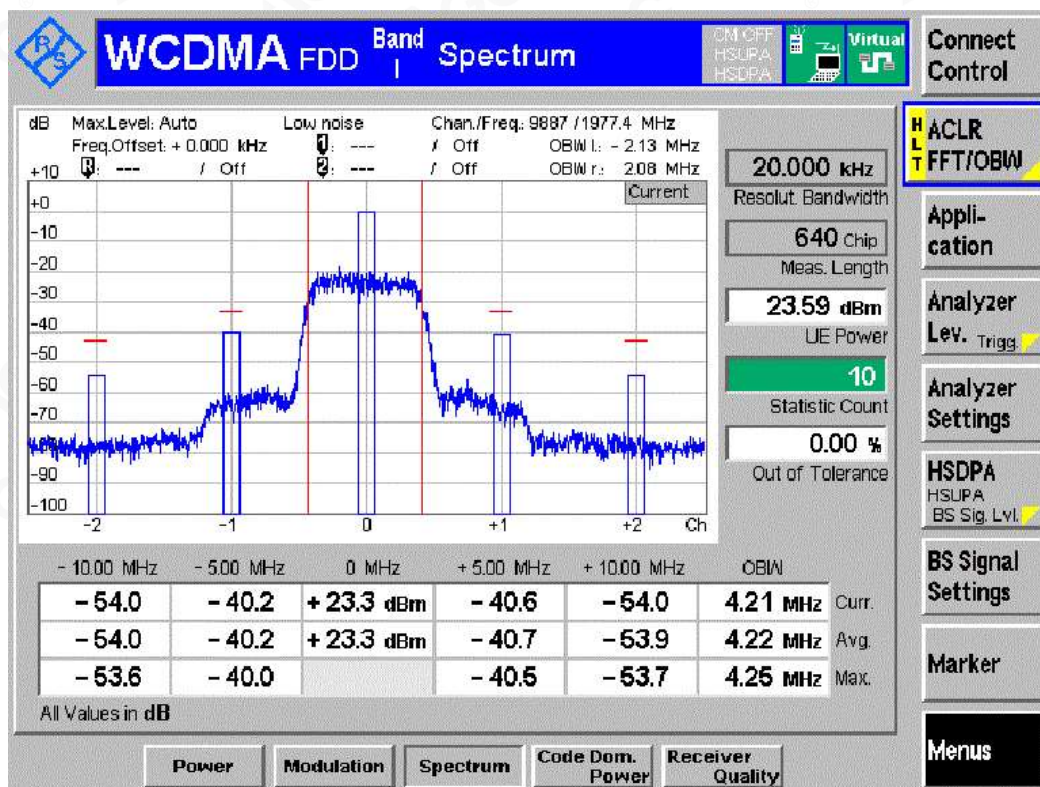




### Channel MCH



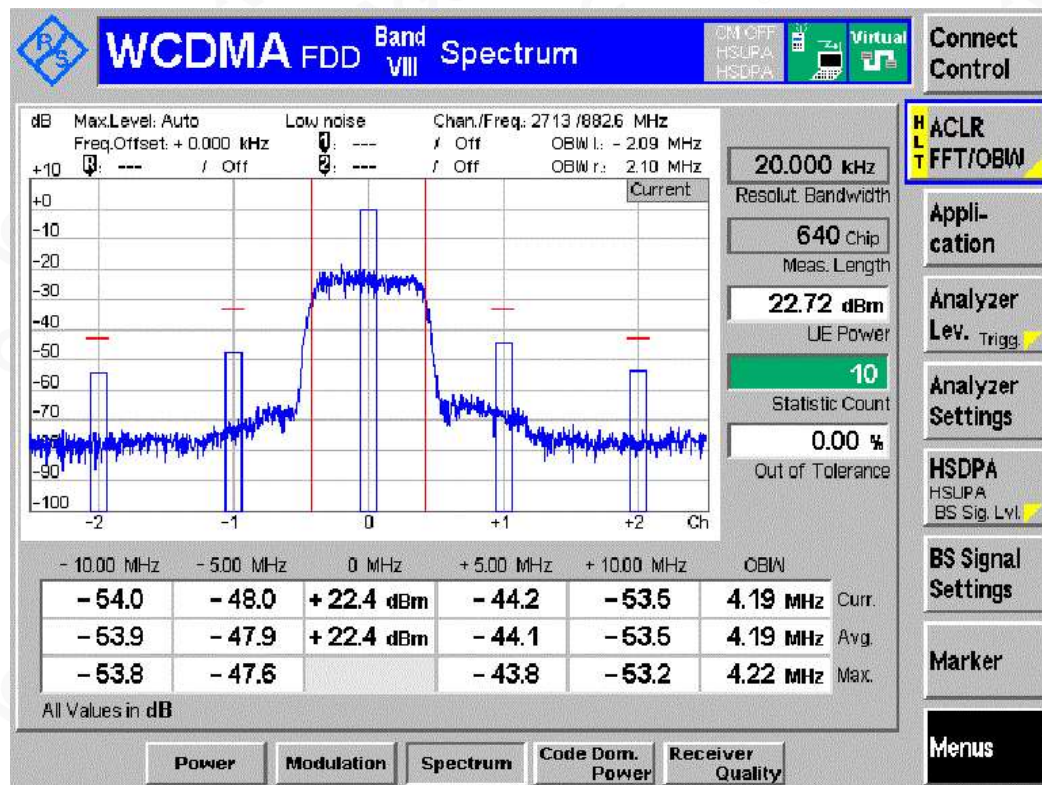
### Channel HCH



# BAND VIII

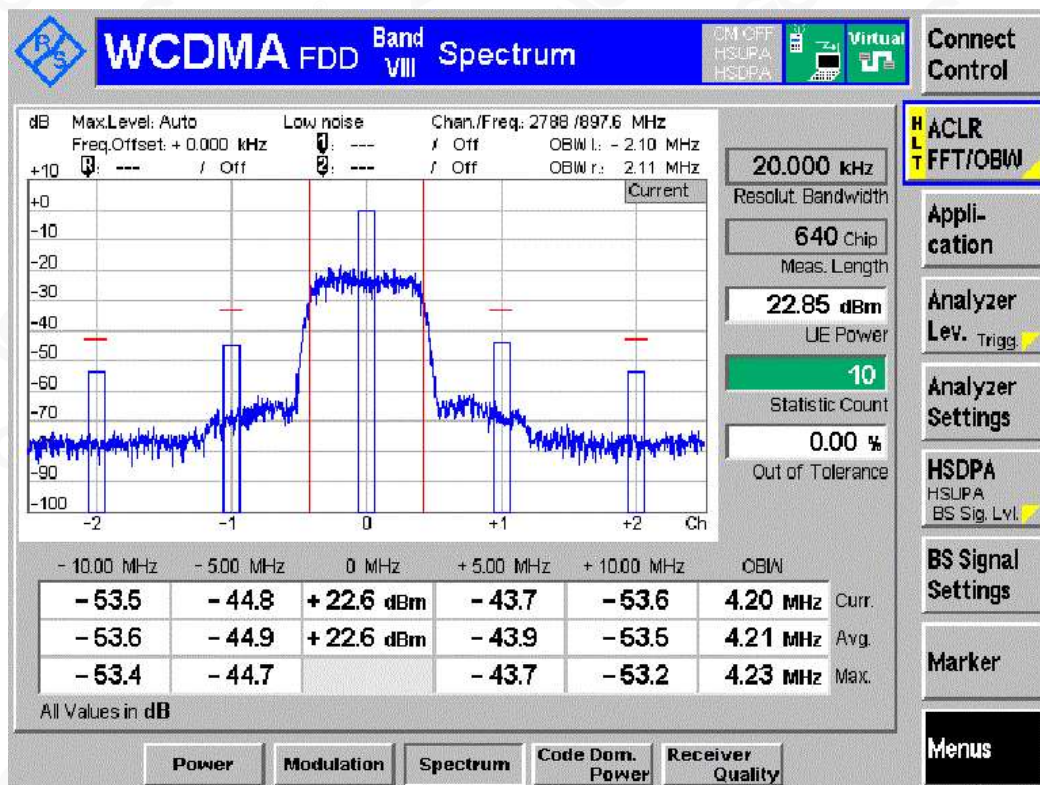
## TNPN

### Channel LCH

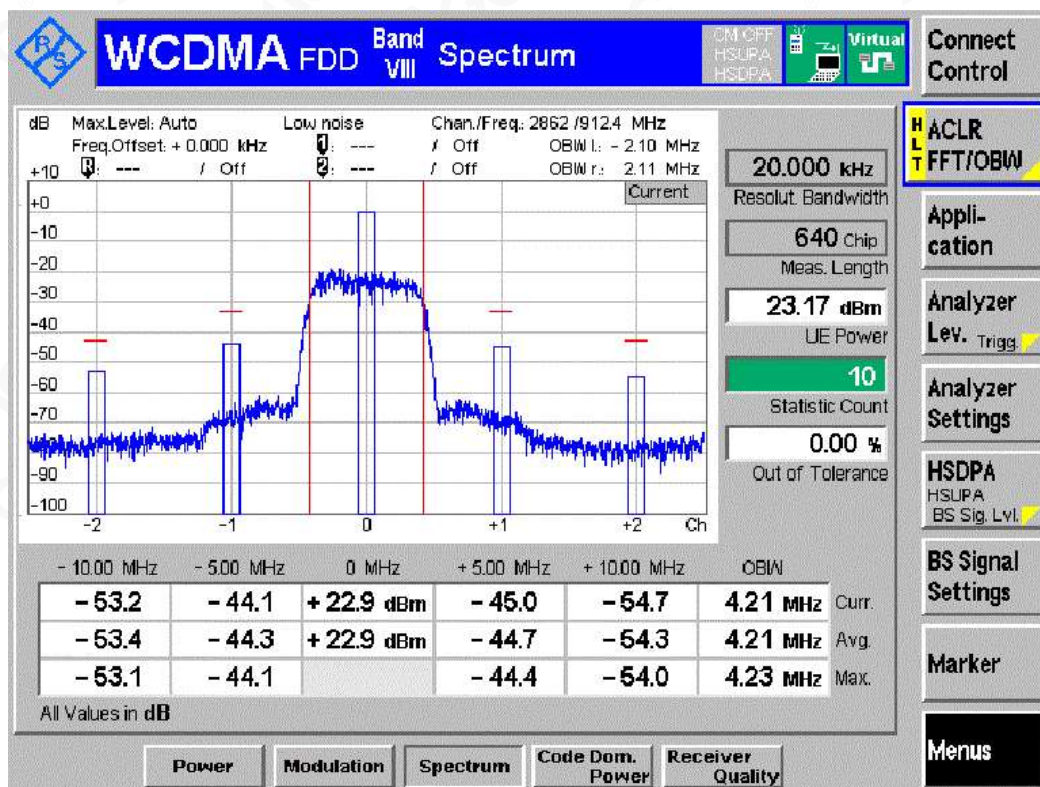




### Channel MCH



### Channel HCH



## Appendix E. Transmitter spurious emissions

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I&BAND VIII TNVN ) of fellow:

Frequency	RBW	Max. Level (dbm)	Test Band=Band I			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
9 kHz ≤f < 150 kHz	1 kHz	-36	-37.01	-36.57	-37.75	Pass
150 kHz ≤f < 30 MHz	10 kHz	-36	-38.28	-36.55	-38.13	Pass
30 MHz ≤f < 1 000 MHz	100 kHz	-36	-58.90	-59.18	-59.05	Pass
1 GHz ≤f < 12.750GHz	1 MHz	-30	-36.60	-36.89	-36.89	Pass
791 MHz ≤f ≤821 MHz	3.84 MHz	-60	-65.39	-65.36	-65.40	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-65.81	-65.54	-65.56	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-75.29	-75.21	-75.17	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-85.56	-85.53	-85.56	Pass
1 805 MHz ≤f ≤1 880 MHz	100 kHz	-71	-79.76	-79.60	-79.96	Pass
2 110 MHz ≤f ≤2 170 MHz	3.84 MHz	-60	-66.35	-66.39	-66.36	Pass
2 585 MHz ≤f ≤2 690 MHz	3.84 MHz	-60	-64.82	-64.73	-64.83	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	-38.63	-37.29	-38.29	Pass
150 kHz ≤f < 30 MHz	10 kHz	-36	-36.99	-37.37	-38.43	Pass
30 MHz ≤f < 1 000 MHz	100 kHz	-36	-54.47	-53.89	-53.19	Pass
1 GHz ≤f < 12.75 GHz	1 MHz	-30	-36.82	-37.07	-36.85	Pass
791 MHz ≤f ≤821 MHz	3.84 MHz	-60	-65.36	-65.39	-65.34	Pass
925MHz ≤f ≤935 MHz	100 kHz	-67	-69.71	-70.37	-70.17	Pass
	3.84 MHz	-60	-70.76	-64.50	-64.58	Pass
935MHz ≤f ≤960 MHz	100KHz	-79	-85.30	-85.00	-85.25	Pass
	3.84 MHz	-60	-64.58	-64.62	-64.58	Pass
1805MHz ≤f ≤1830 MHz	100KHz	-71	-80.15	-79.95	-80.09	Pass
	3.84 MHz	-60	-65.36	-65.34	-65.40	Pass
1830MHz ≤f ≤1880 MHz	100KHz	-71	-79.88	-79.58	-79.81	Pass
	3.84 MHz	-60	-65.13	-65.12	-65.04	Pass
2110MHz ≤f≤2170MHz	3.84 MHz	-60	-66.31	-66.31	-66.33	Pass
2 585 MHz ≤f ≤2 640 MHz	3.84 MHz	-60	-63.92	-63.89	-63.88	Pass
2 640 MHz ≤f ≤2 690 MHz	3.84 MHz	-60	-64.78	-64.76	-64.77	Pass

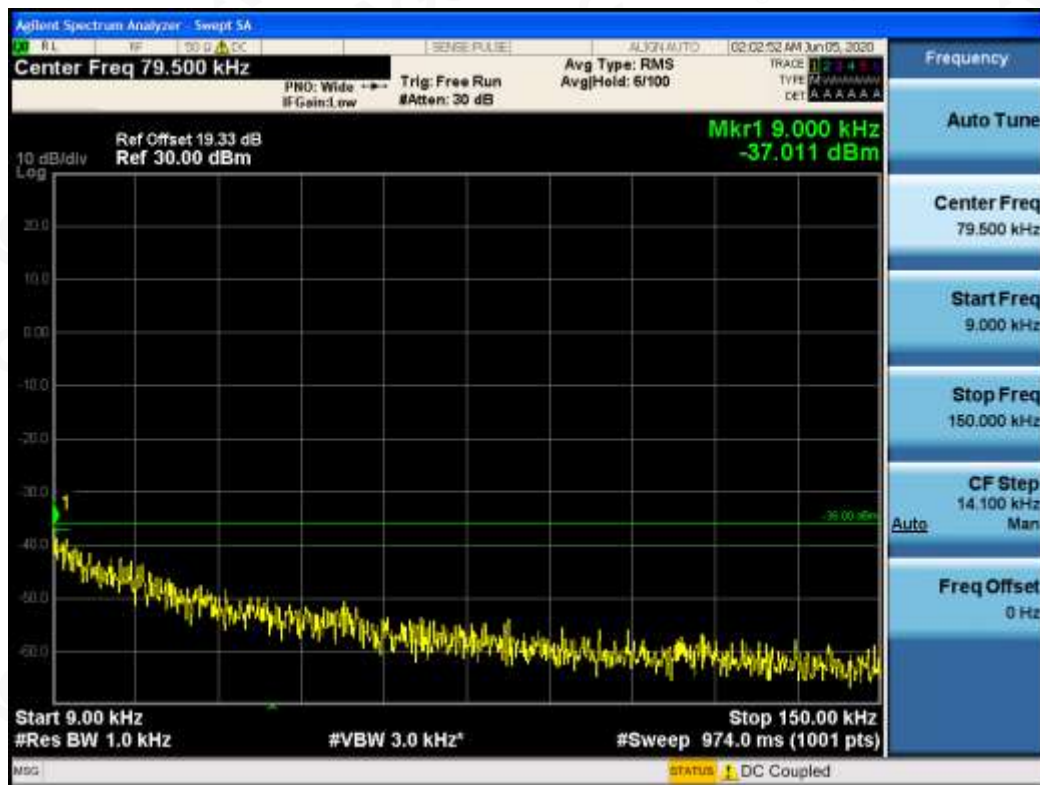




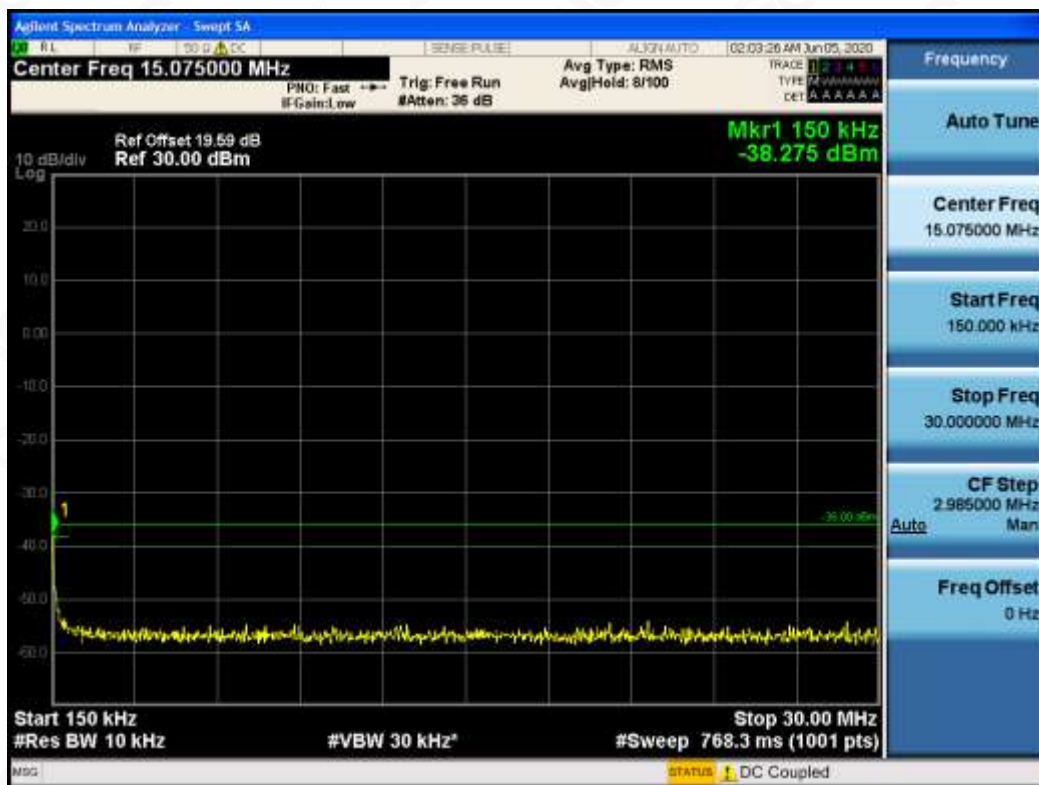
## BAND I

### Channel LCH

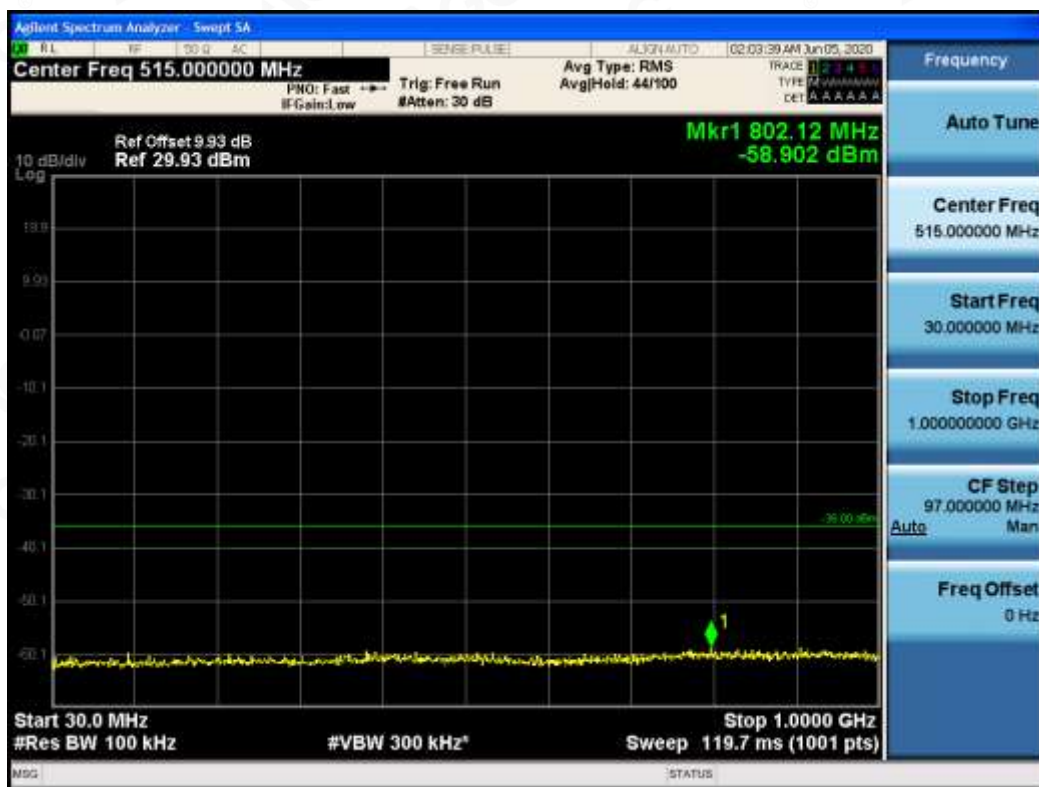
9KHZ~150KHZ



150KHZ~30MHZ

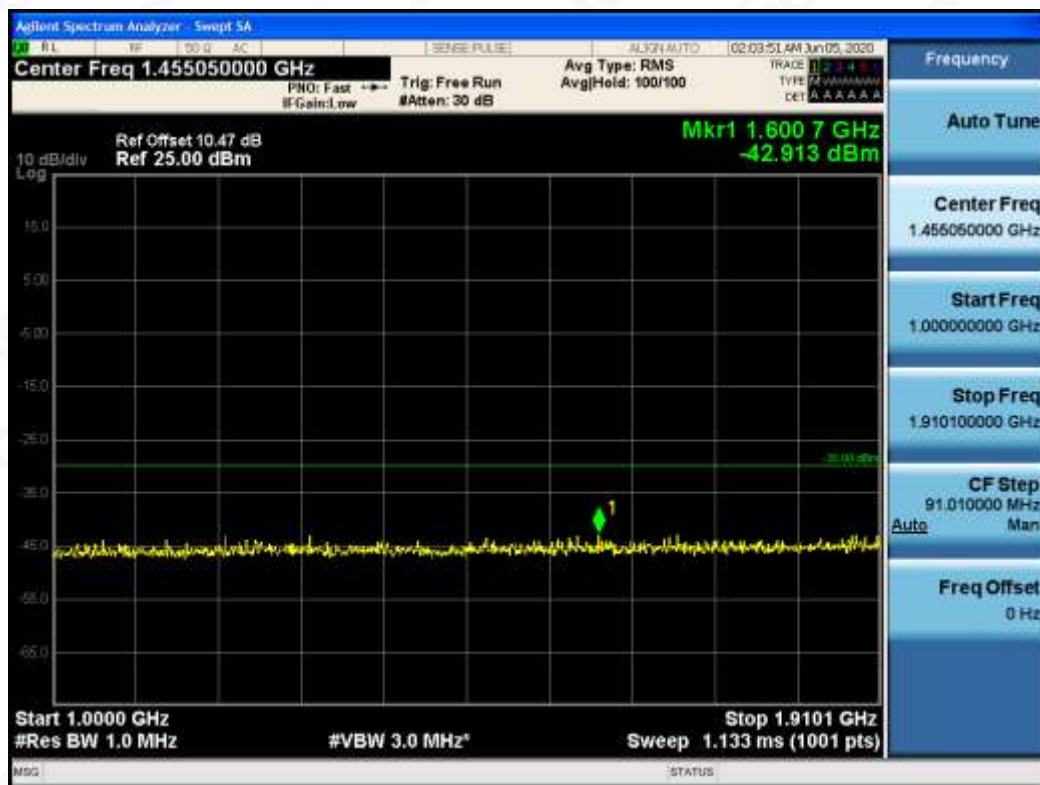


30MHZ~1GHZ





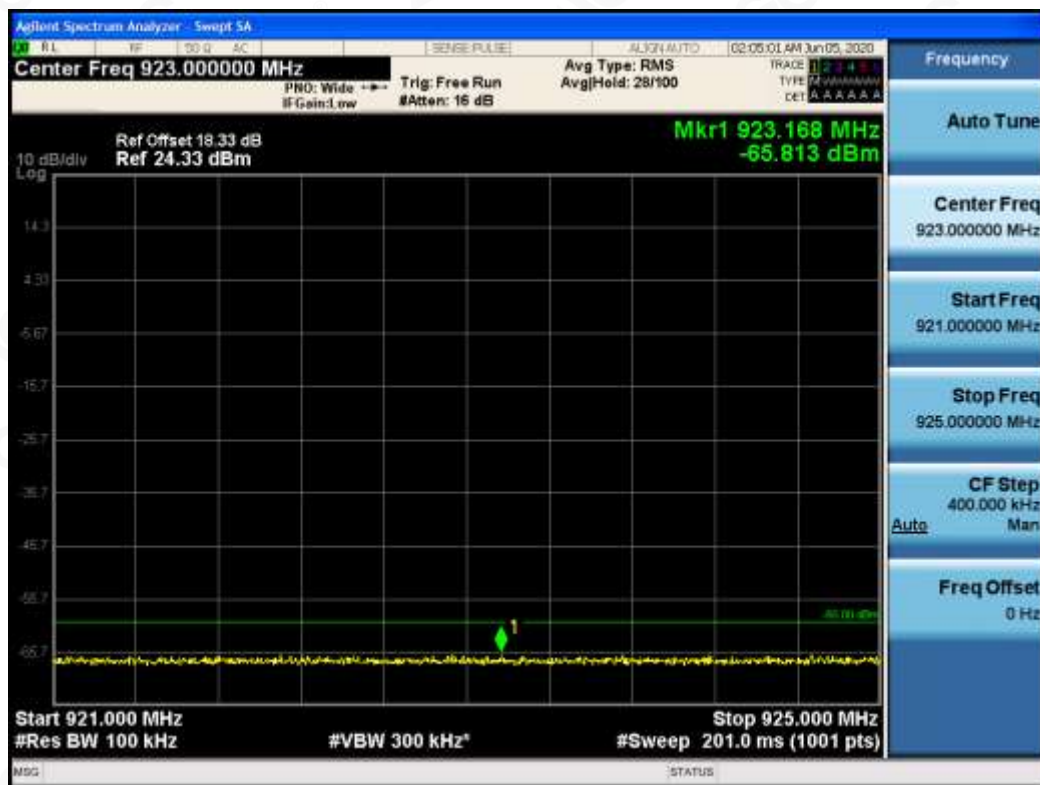
1GHZ~1.9101GHZ



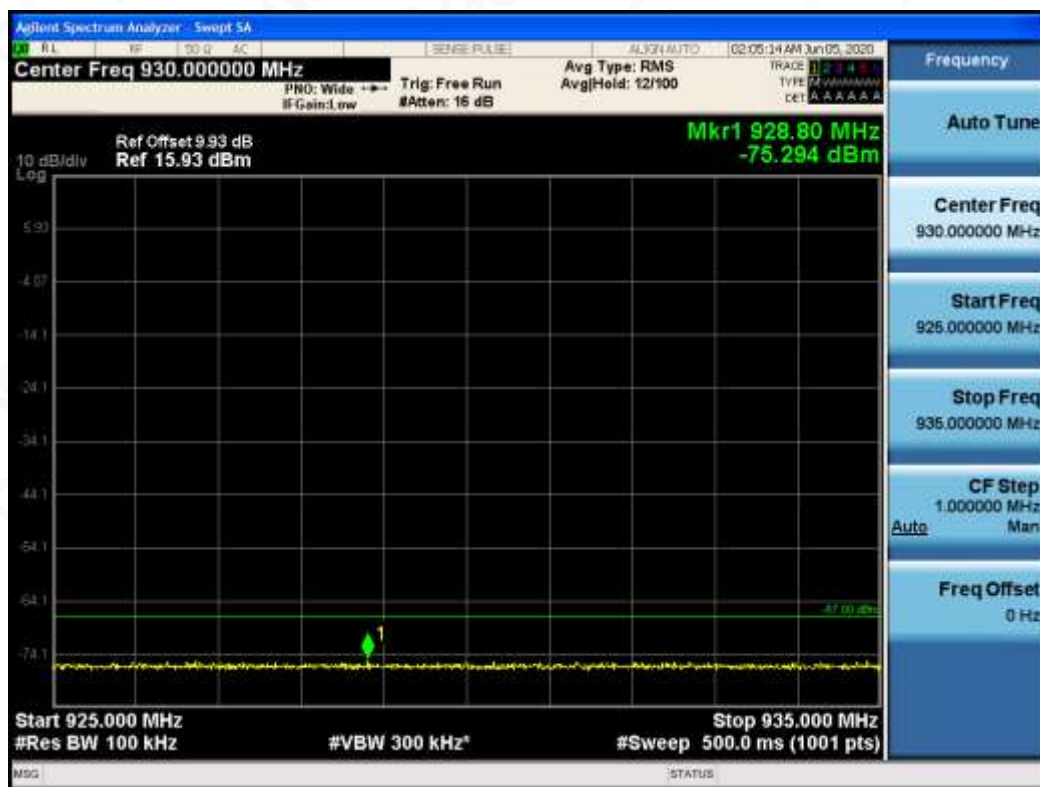
1.9351GHZ~12.75GHZ



921MHZ~925MHZ



925MHZ~935MHZ



935MHZ~960MHZ



1805MHZ~1880MHZ





2110MHZ~2170MHZ

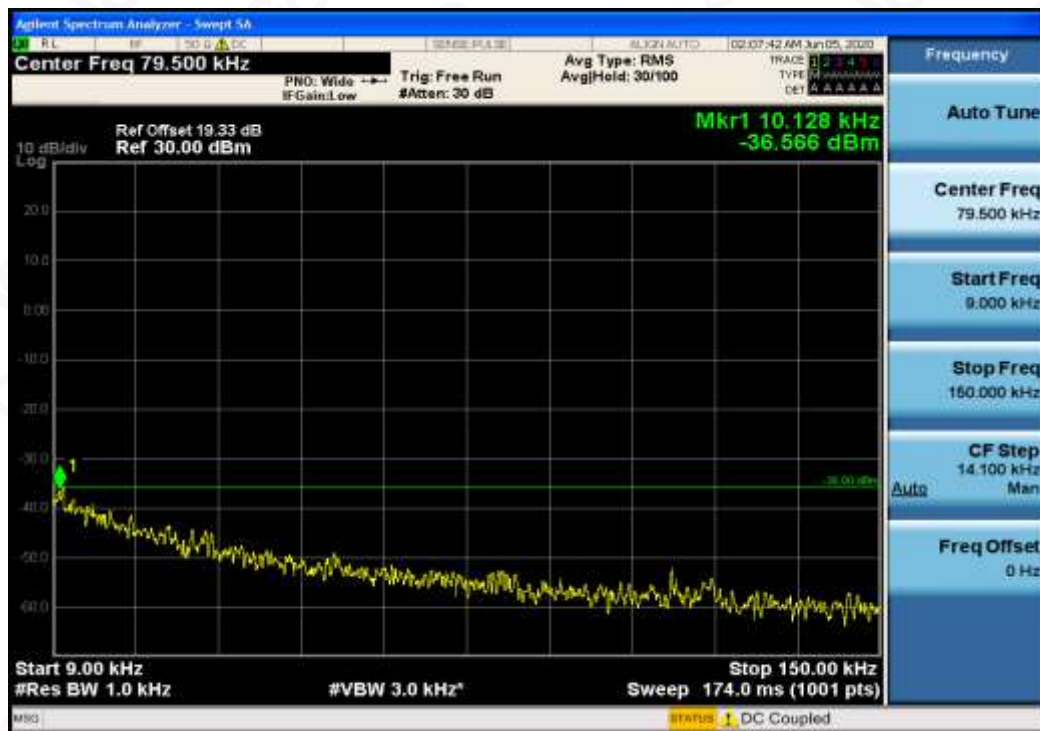


2585MHZ~2690MHZ

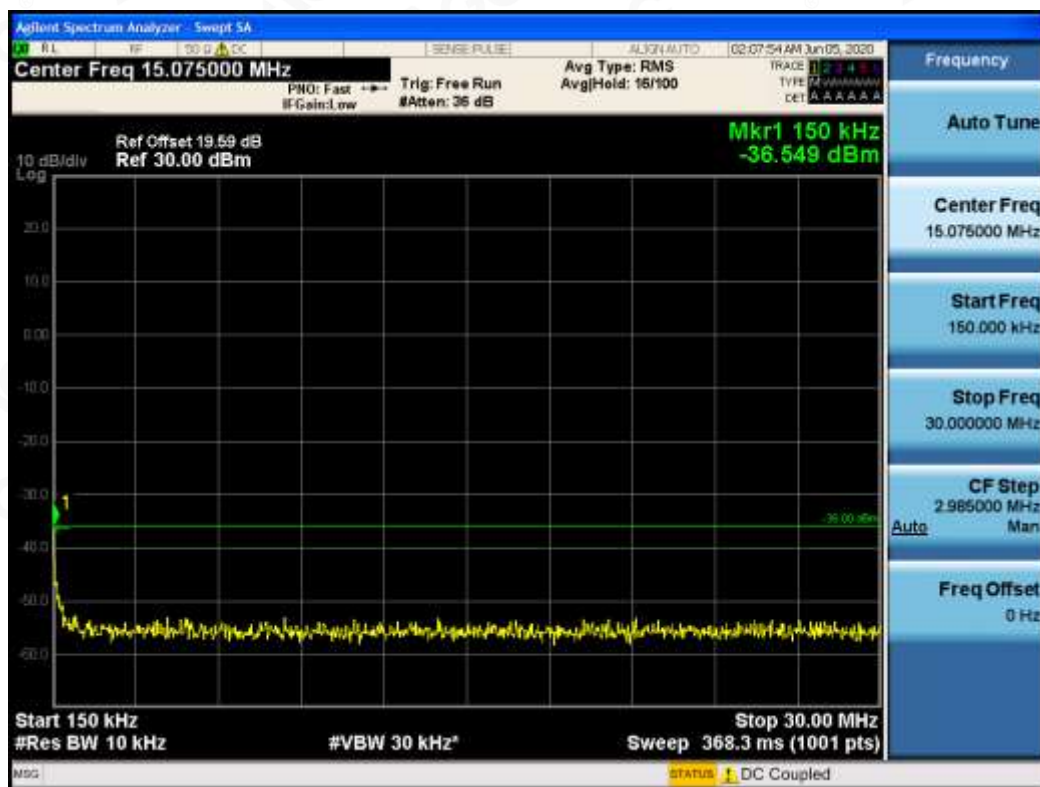




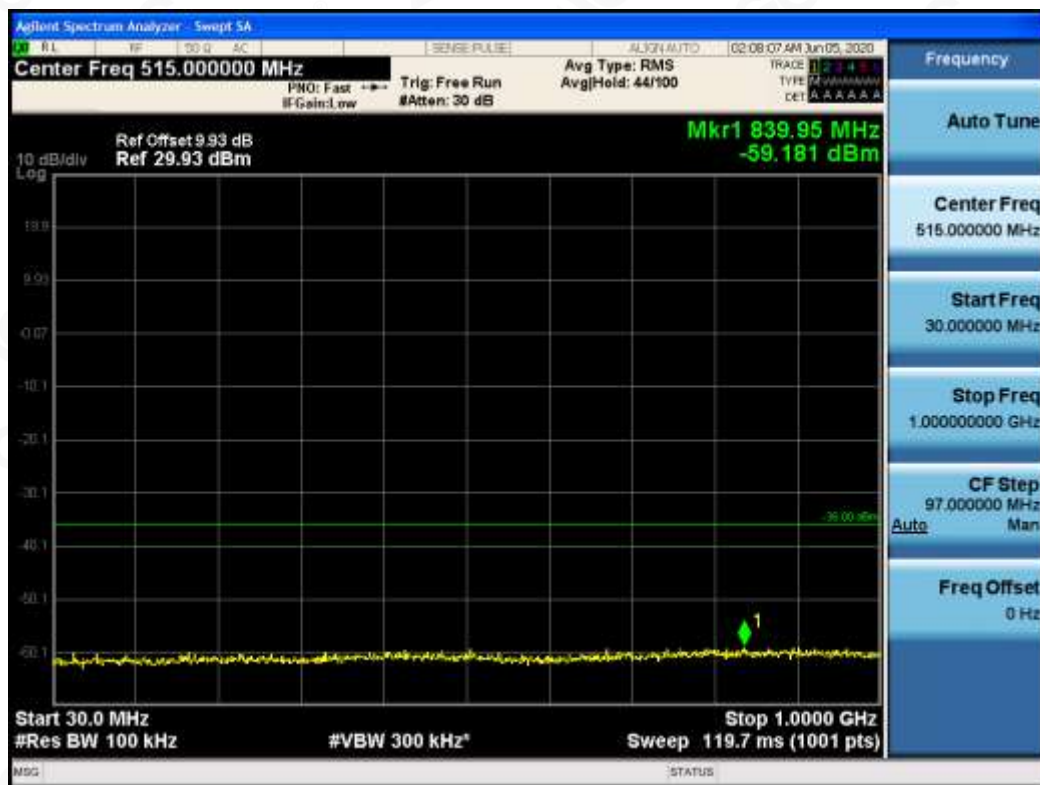
Channel MCH  
9KHZ~150KHZ



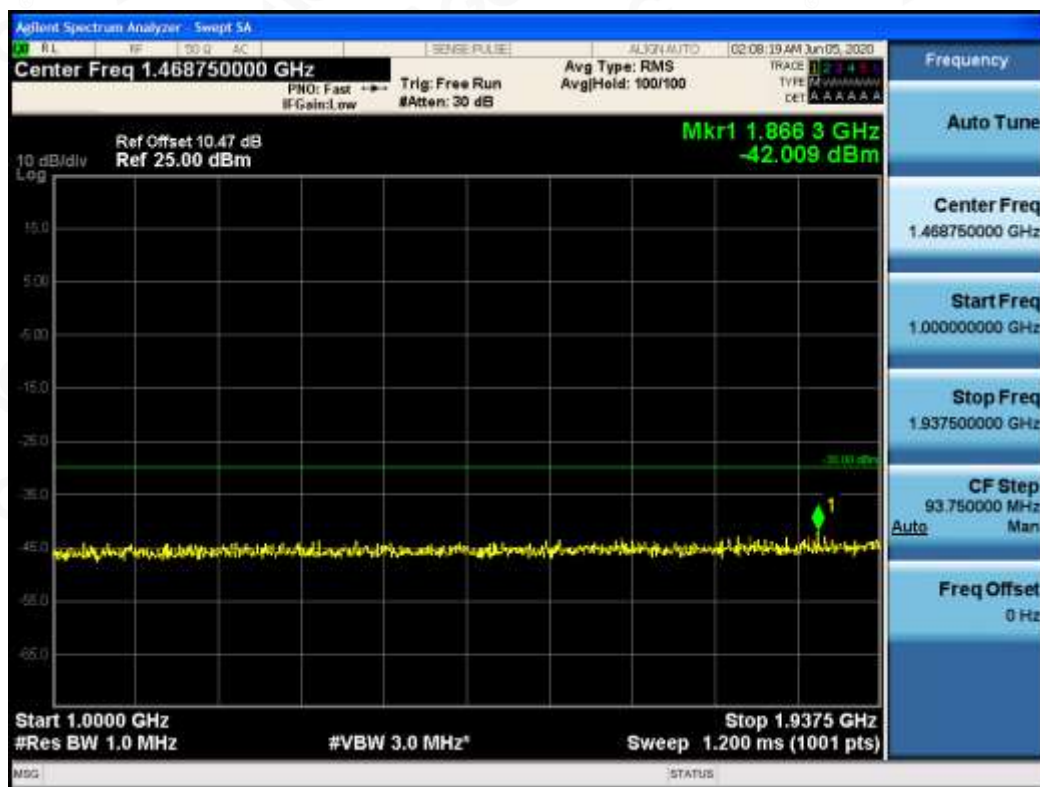
150KHZ~30MHZ



30MHz~1GHz



1GHz~1.9101GHz



1.9625GHZ~12.75GHZ



791MHZ~821MHZ

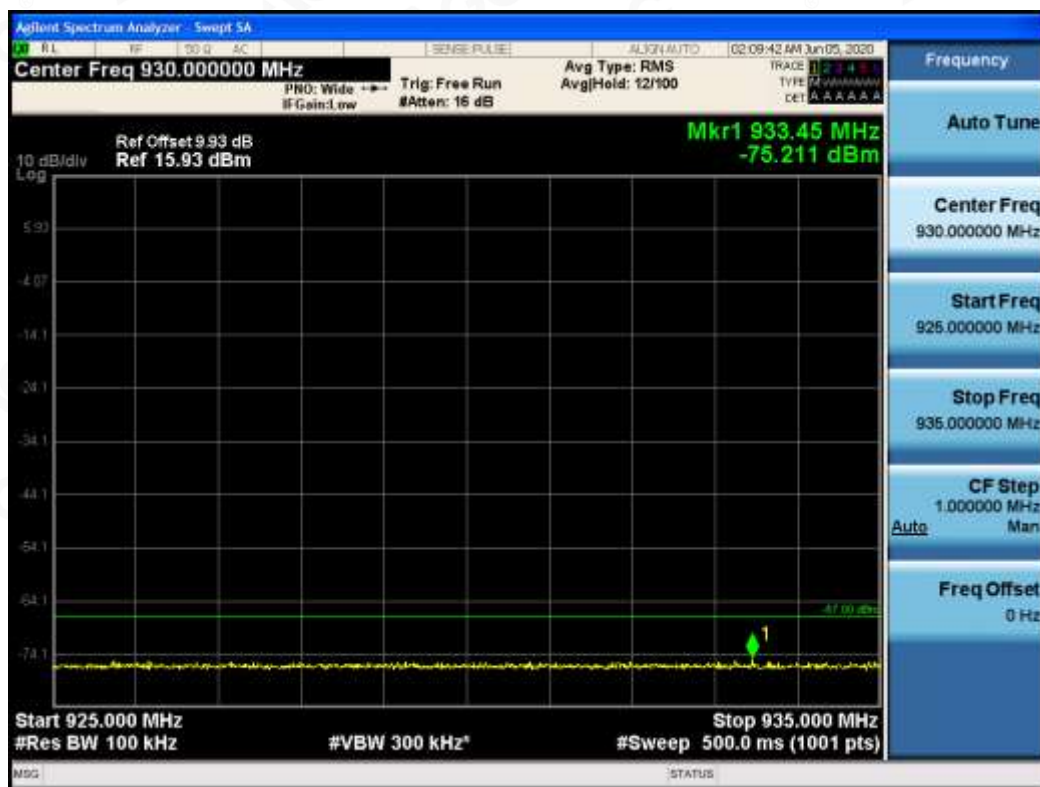




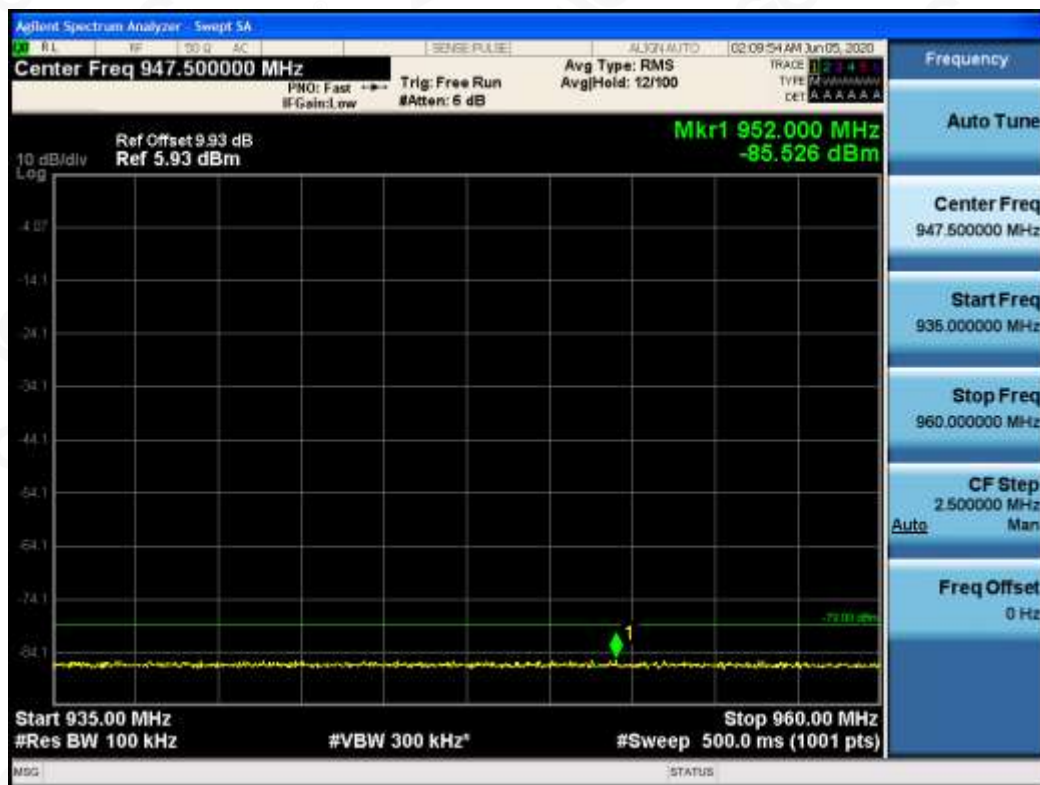
921MHZ~925MHZ



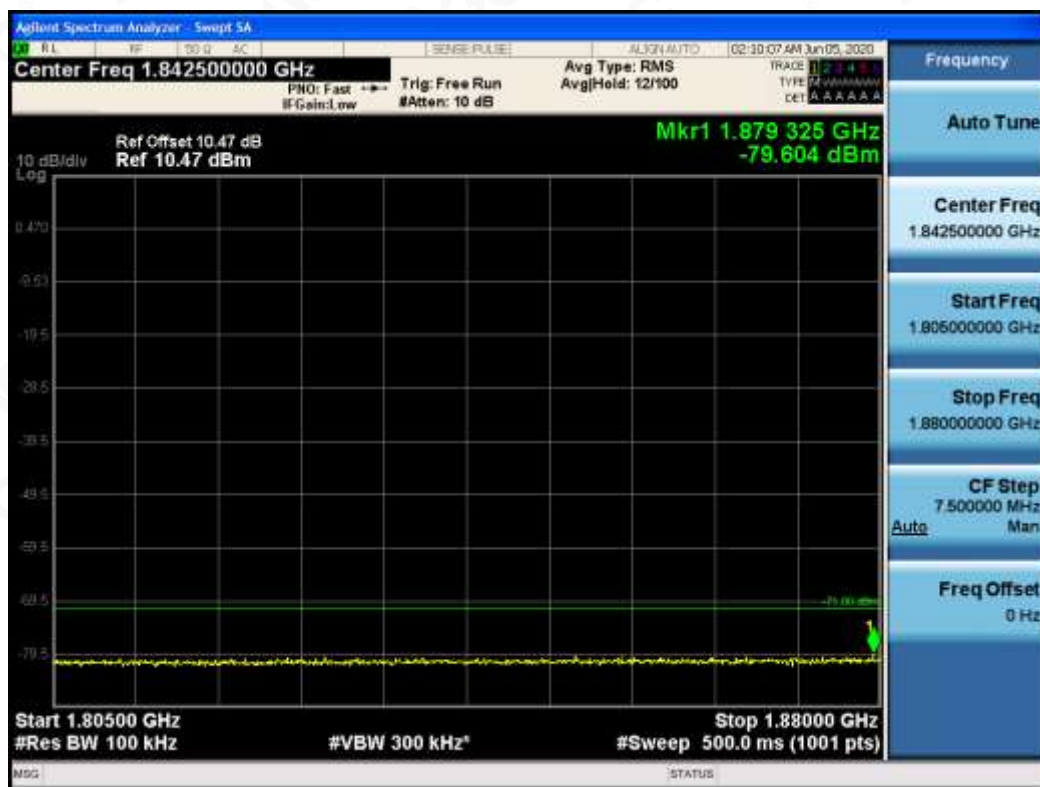
925MHZ~935MHZ



935MHZ~960MHZ



1805MHZ~1880MHZ



2110MHZ~2170MHZ

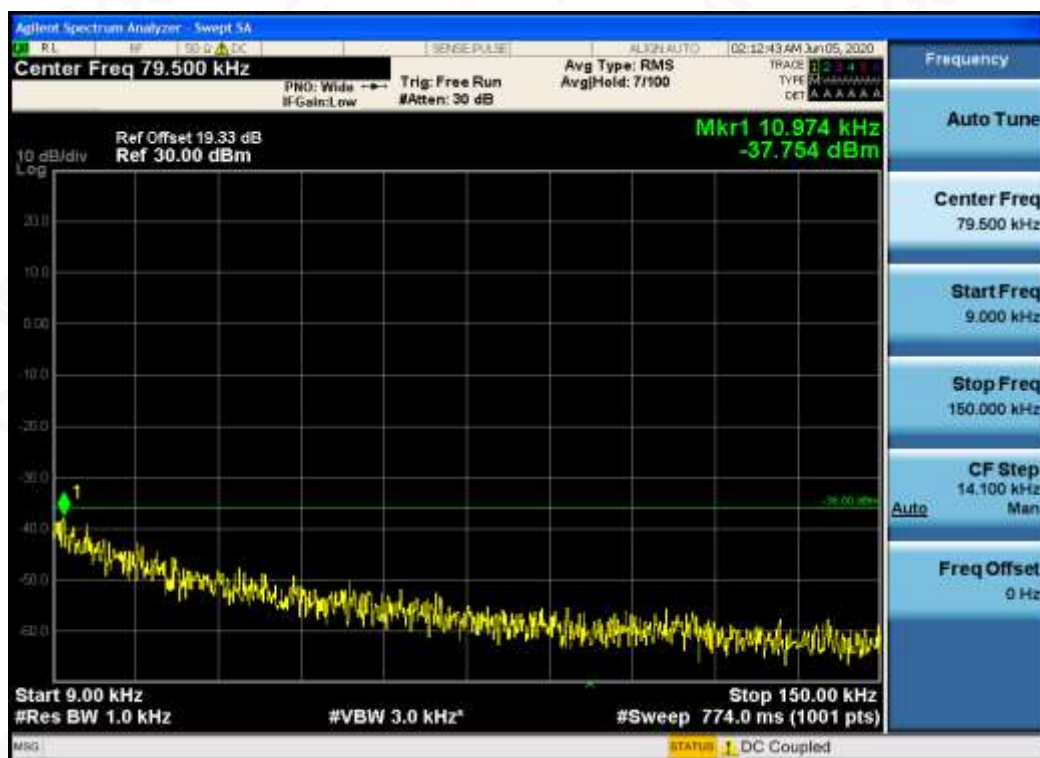


2585MHZ~2690MHZ

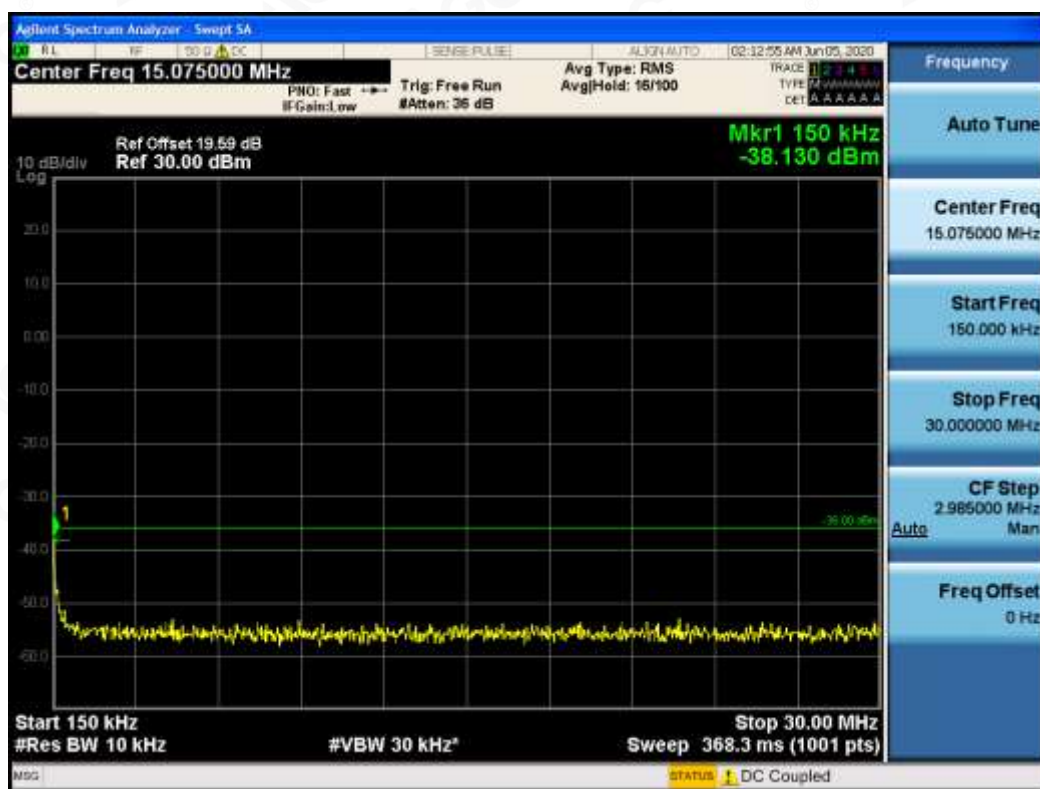




**Channel HCH**  
**9KHZ~150KHZ**



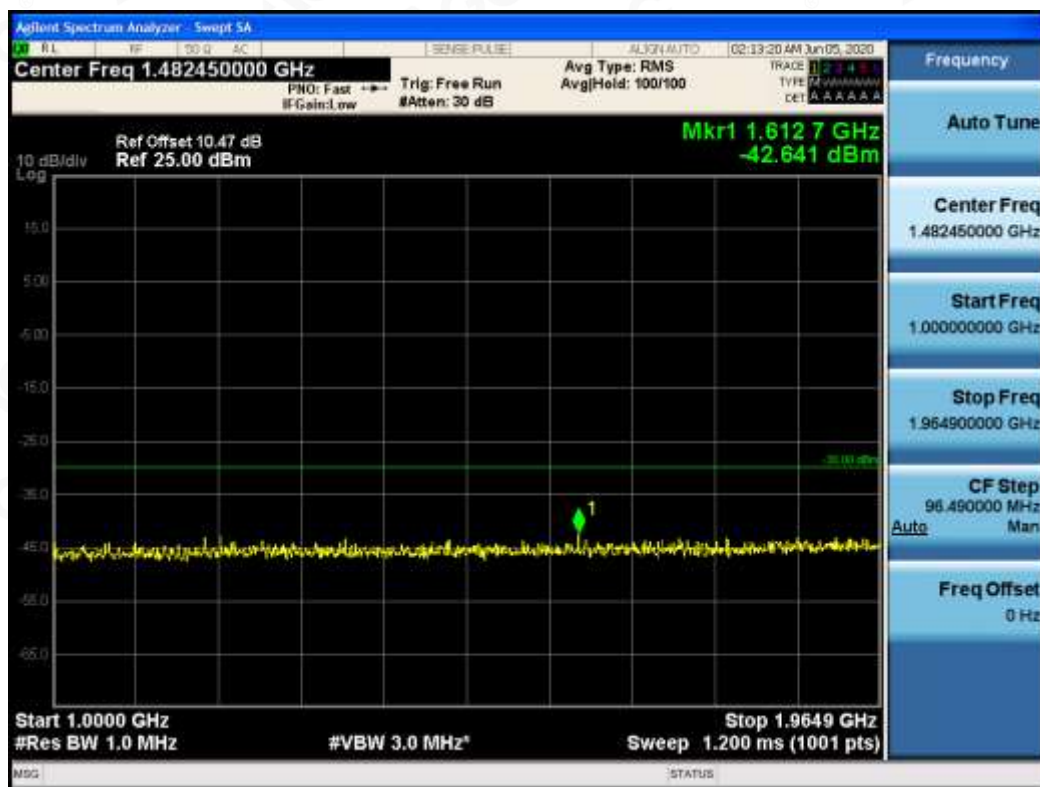
**150KHZ~30MHZ**



30MHz~1GHz



1GHz~1.9101GHz



1.9899GHZ~12.75GHZ



791MHz~821MHz

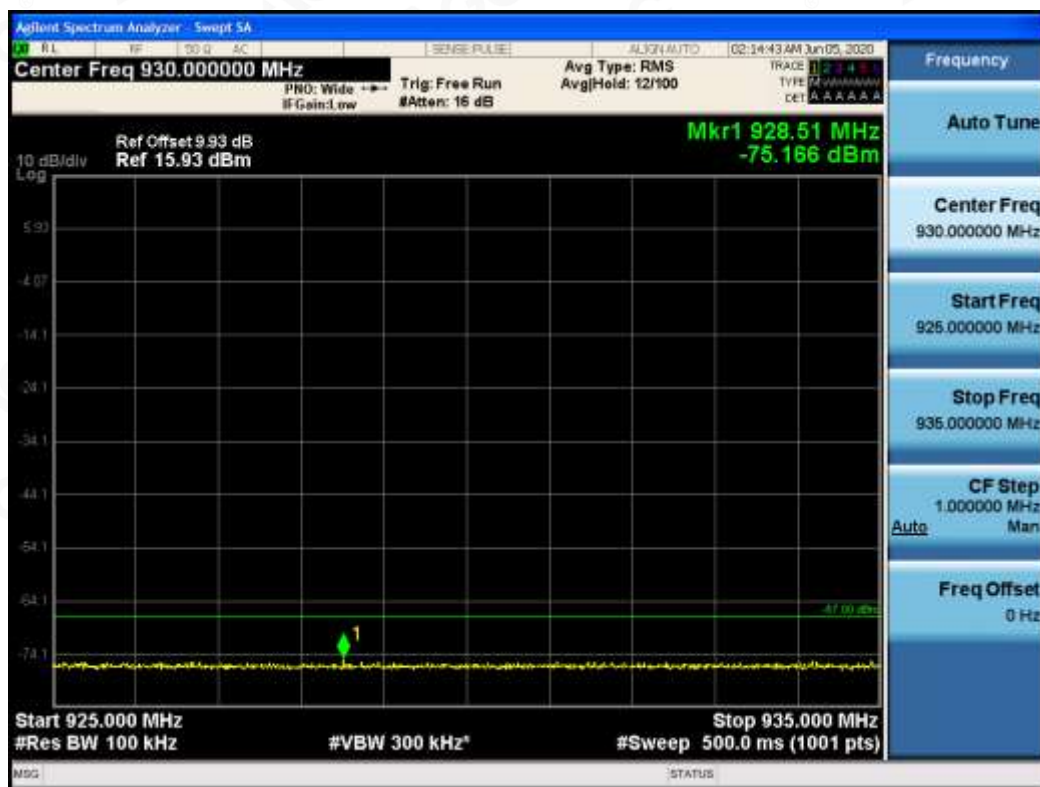




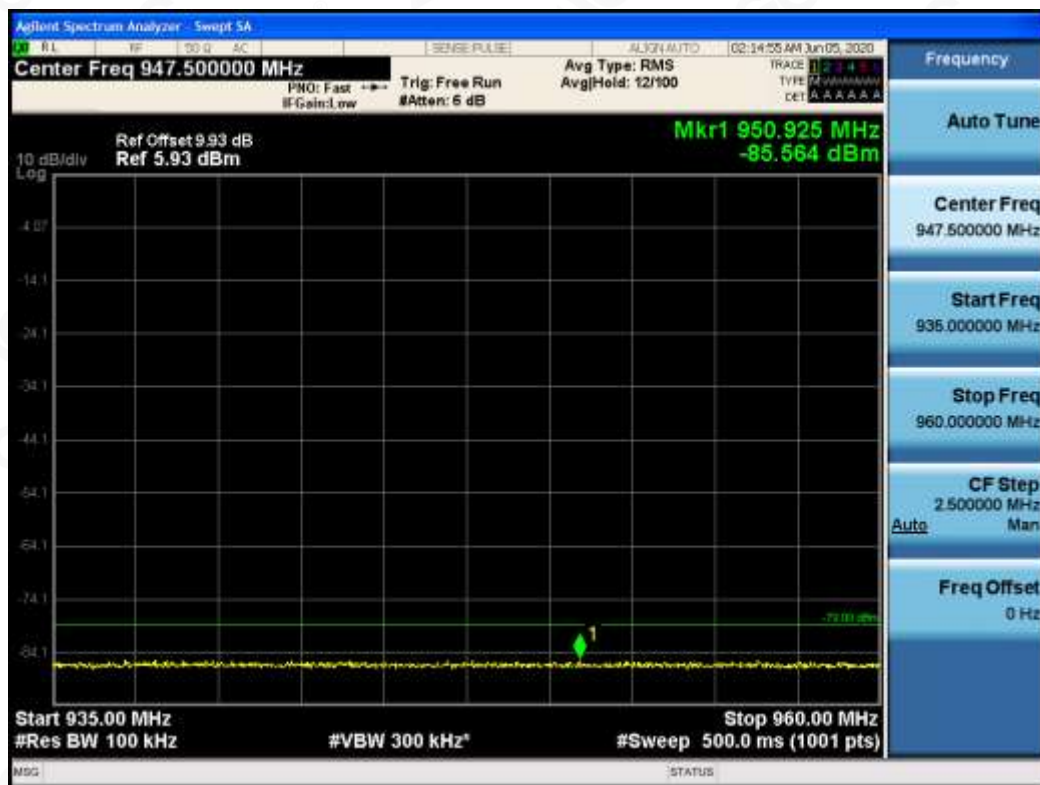
921MHZ~925MHZ



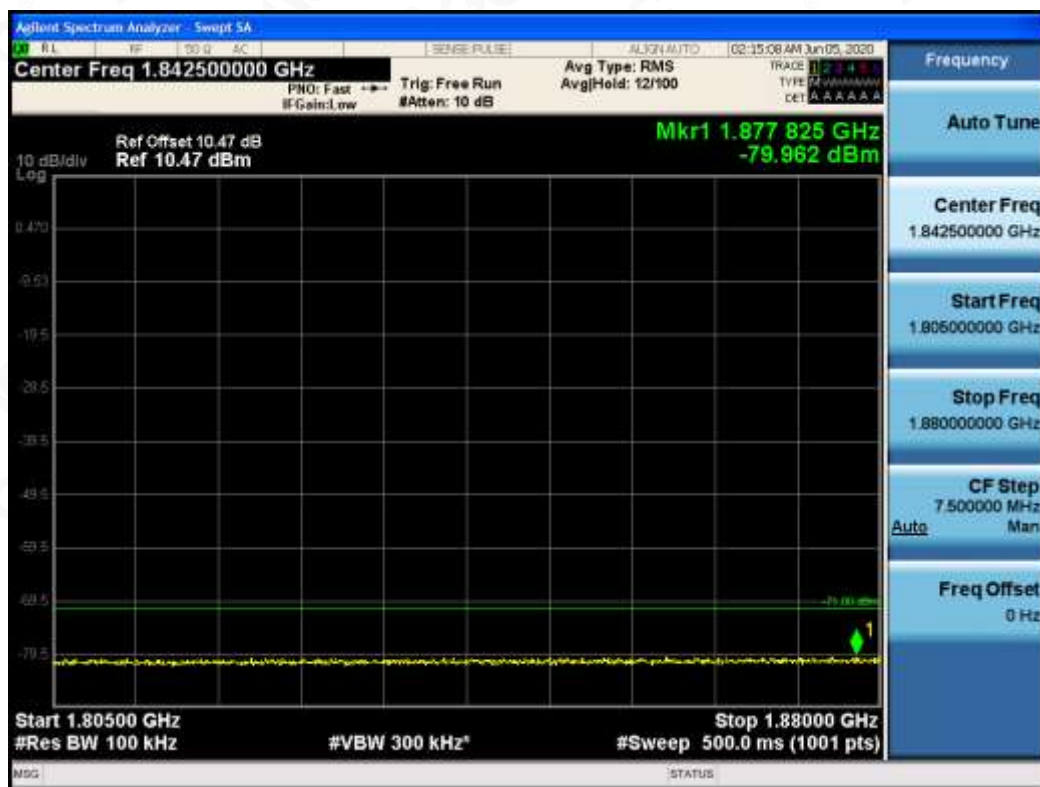
925MHZ~935MHZ



935MHZ~960MHZ



1805MHZ~1880MHZ



2110MHZ~2170MHZ



2585MHZ~2690MHZ

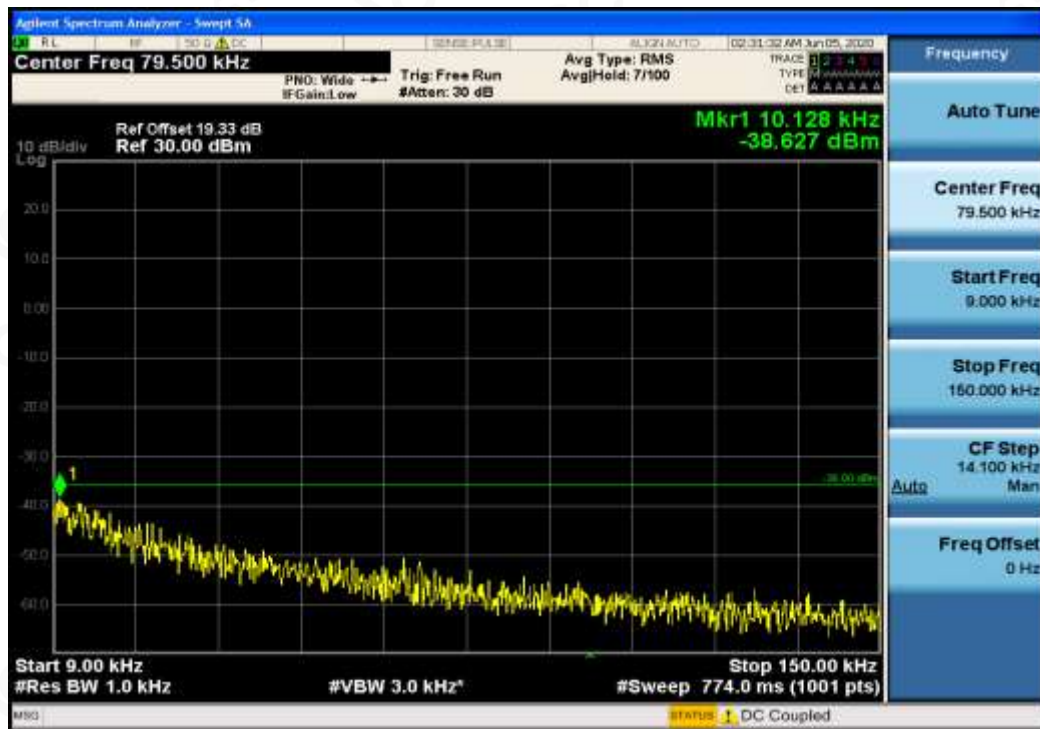




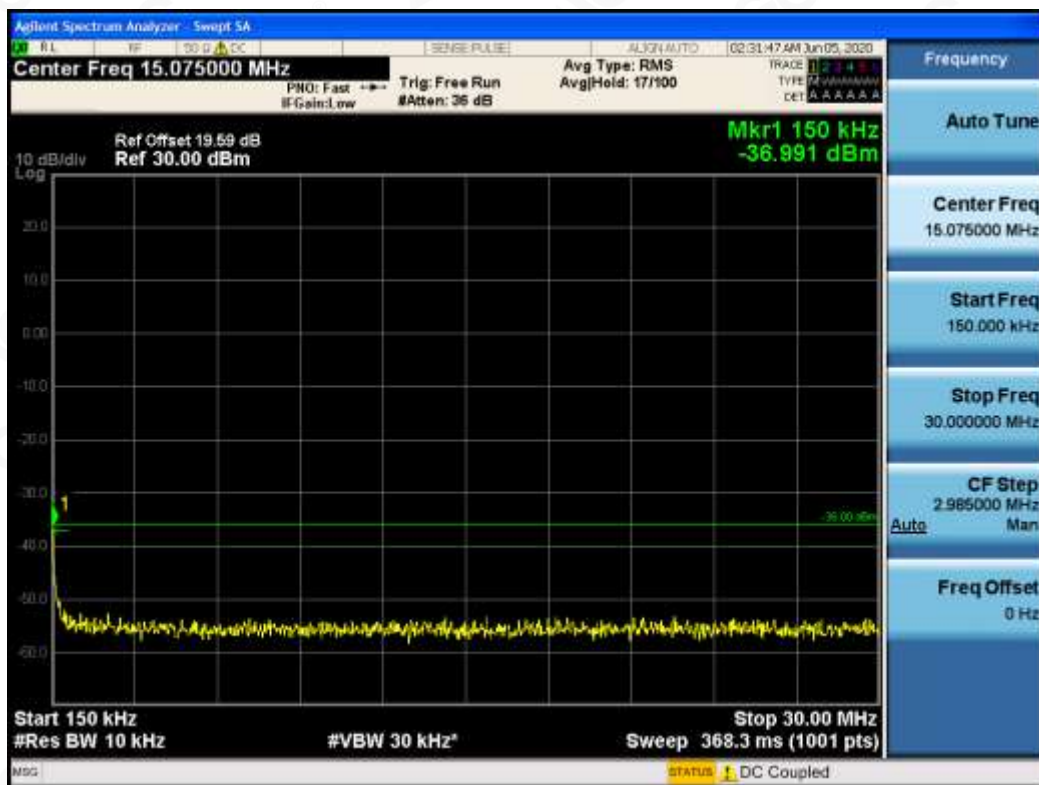
## BAND VIII

### Channel LCH

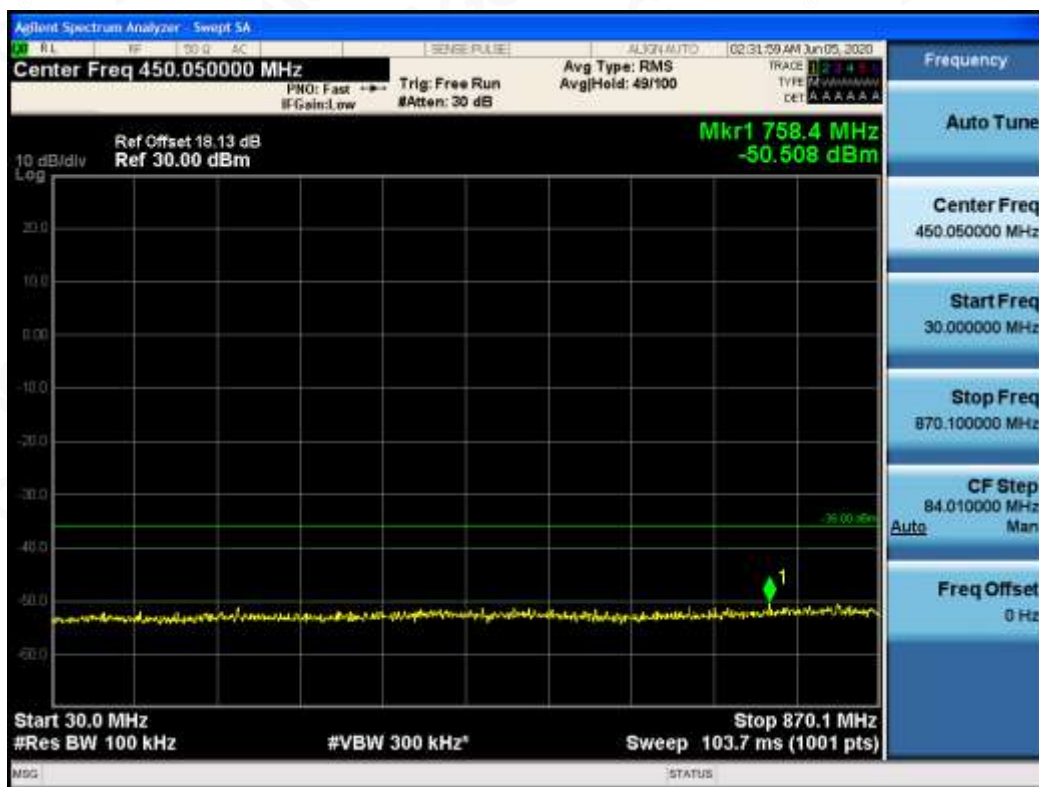
9KHZ~150KHZ

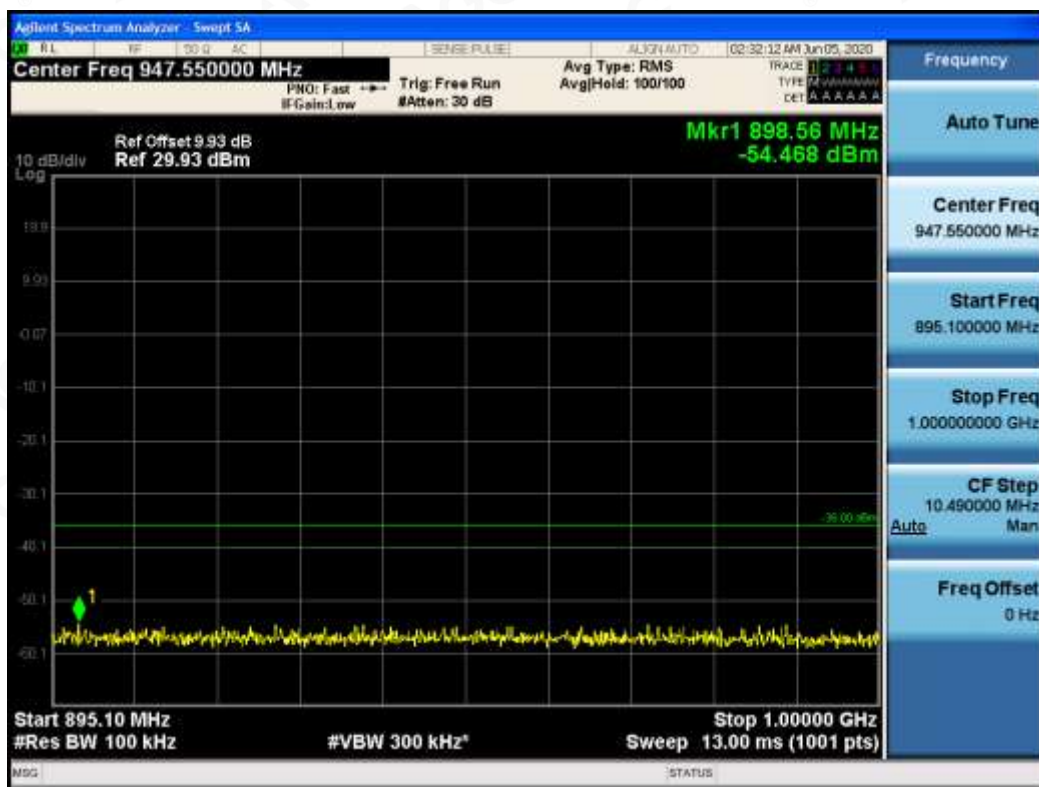


150KHZ~30MHZ



30MHZ~1GHZ





1GHZ~12.75GHZ

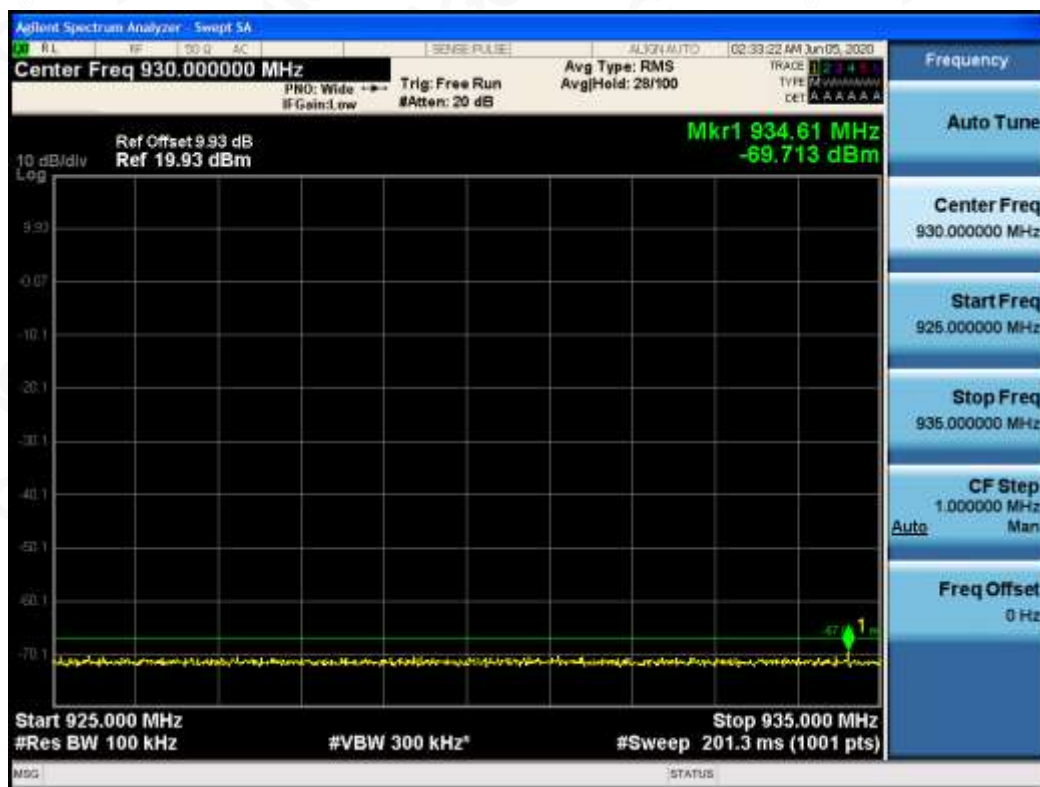




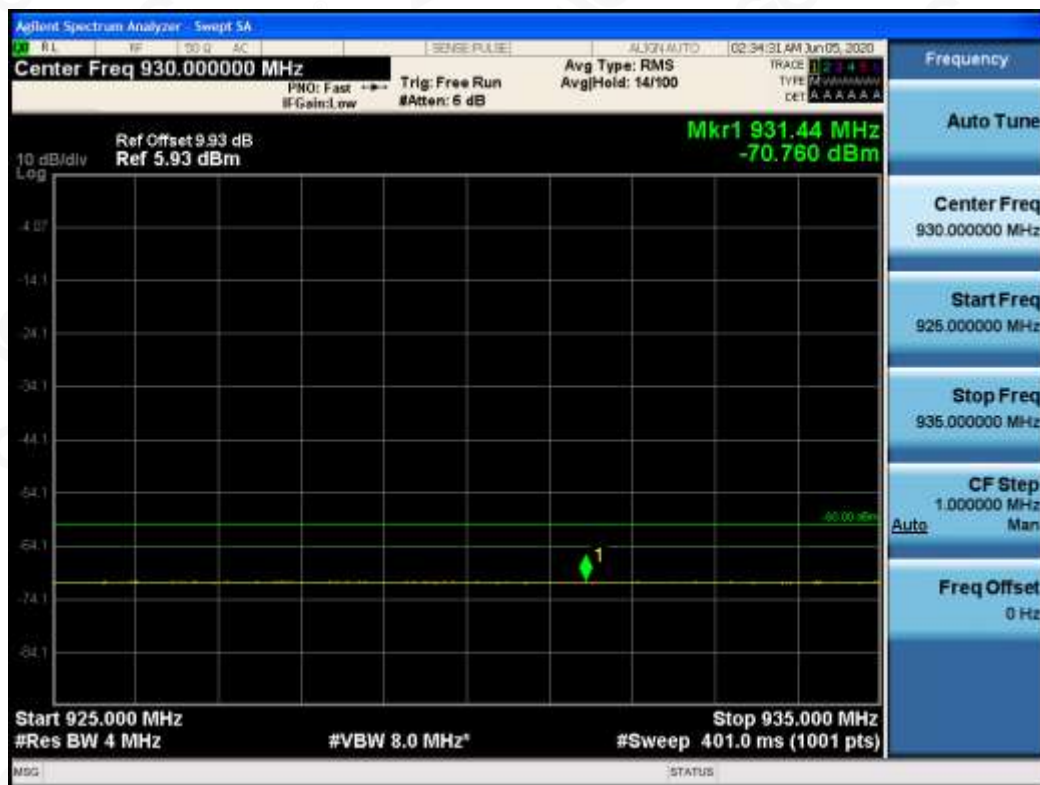
791MHZ~821MHZ



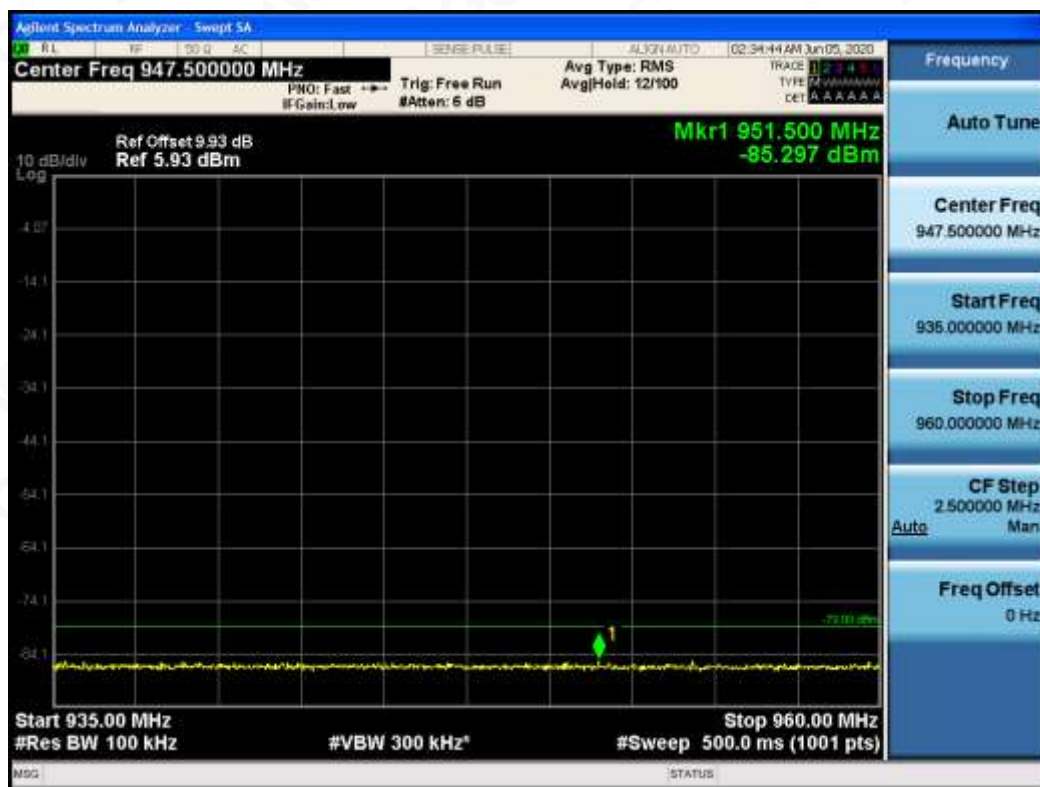
925MHZ~935MHZ



925MHZ~935MHZ



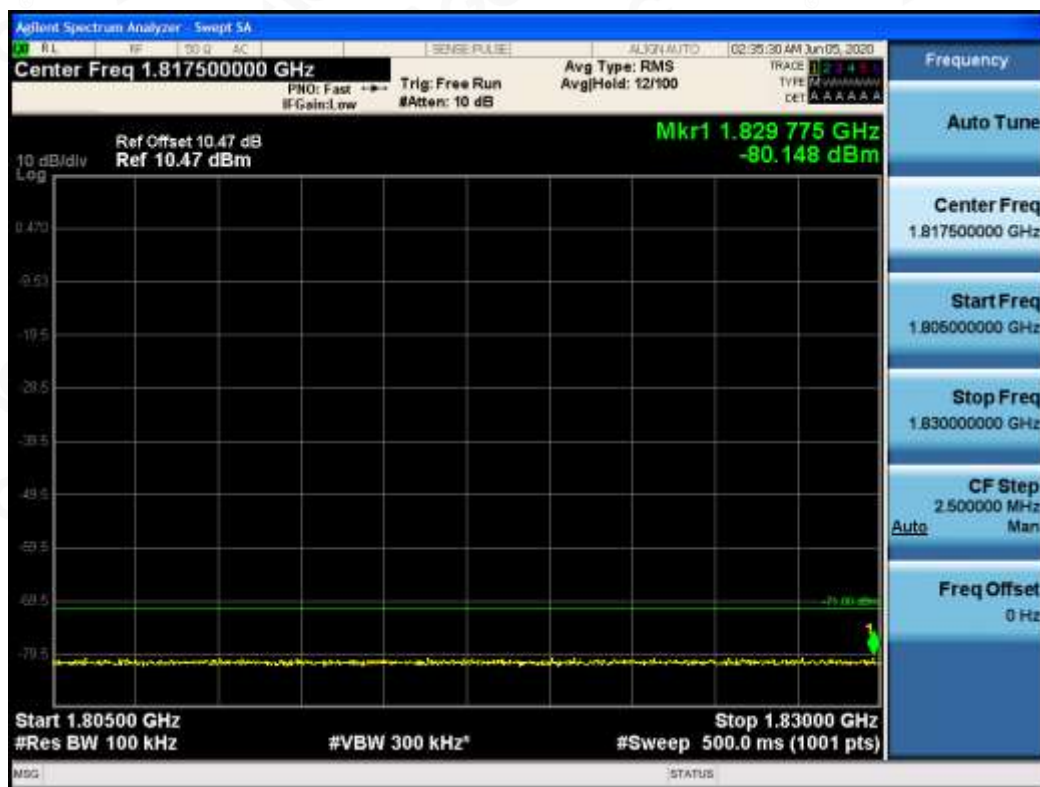
935MHZ~960MHZ



935MHZ~960MHZ



1805MHZ~1830MHZ

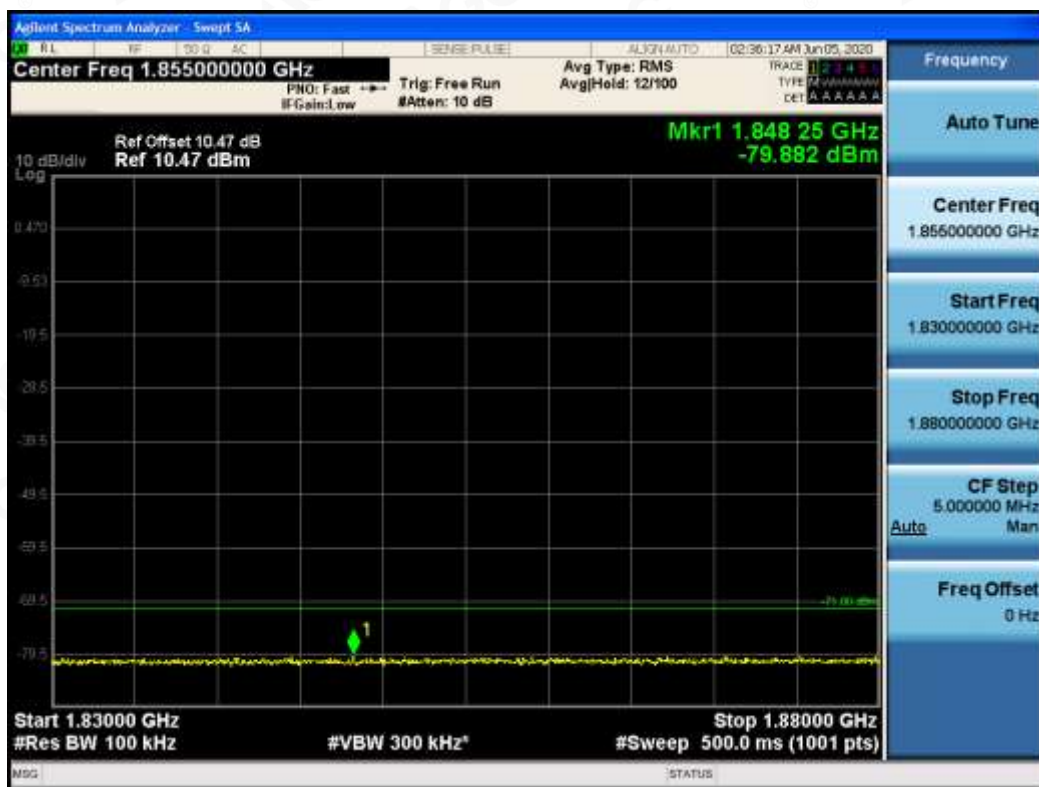




1805MHZ~1830MHZ



1830MHZ~1880MHZ



1830MHz~1880MHz



2110MHz~2170MHz



2585MHZ~2640MHZ

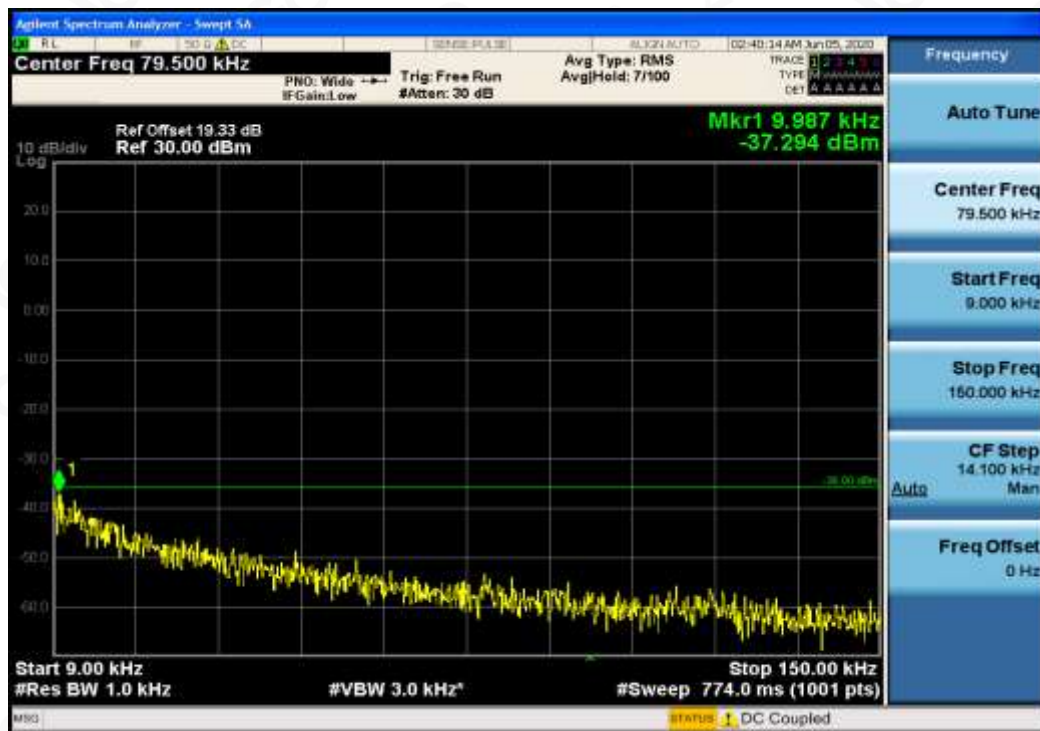


2640MHZ~2690MHZ

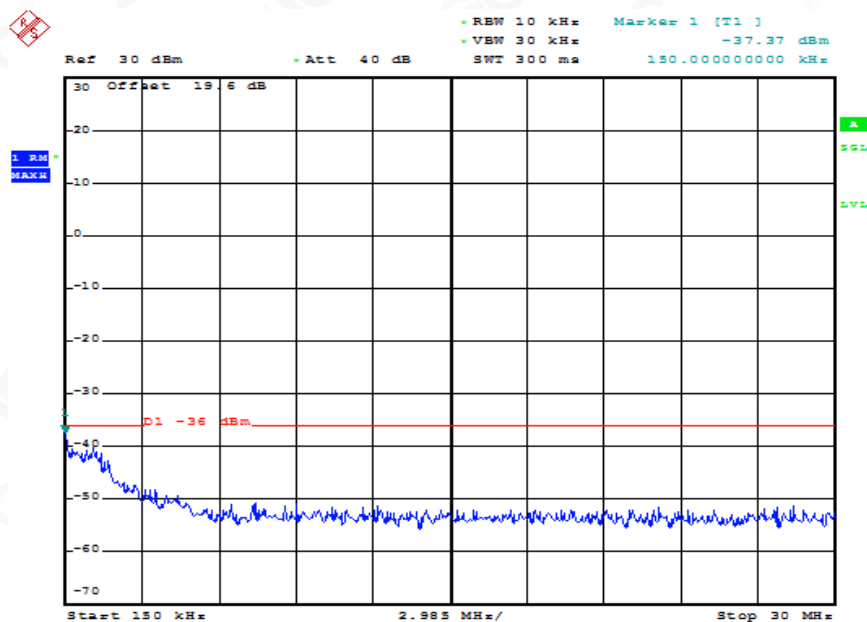




Channel MCH  
9KHZ~150KHZ



150KHZ~30MHZ



AAA

Date: 28.MAY.2020 15:09:31



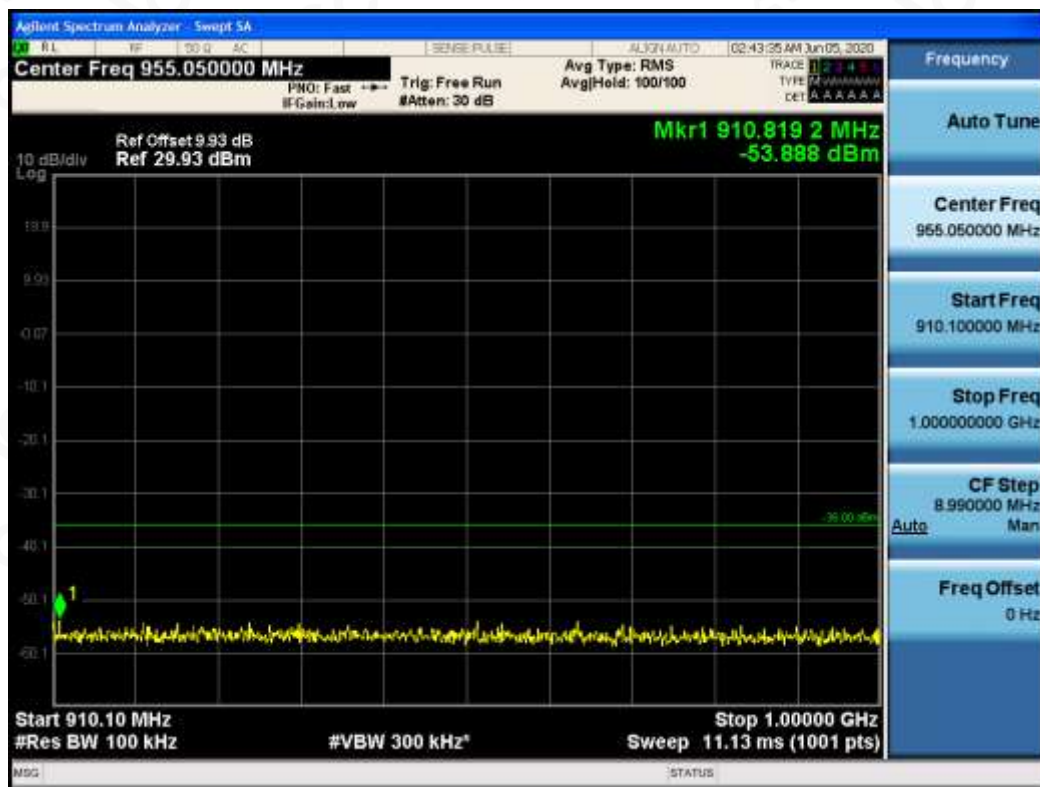
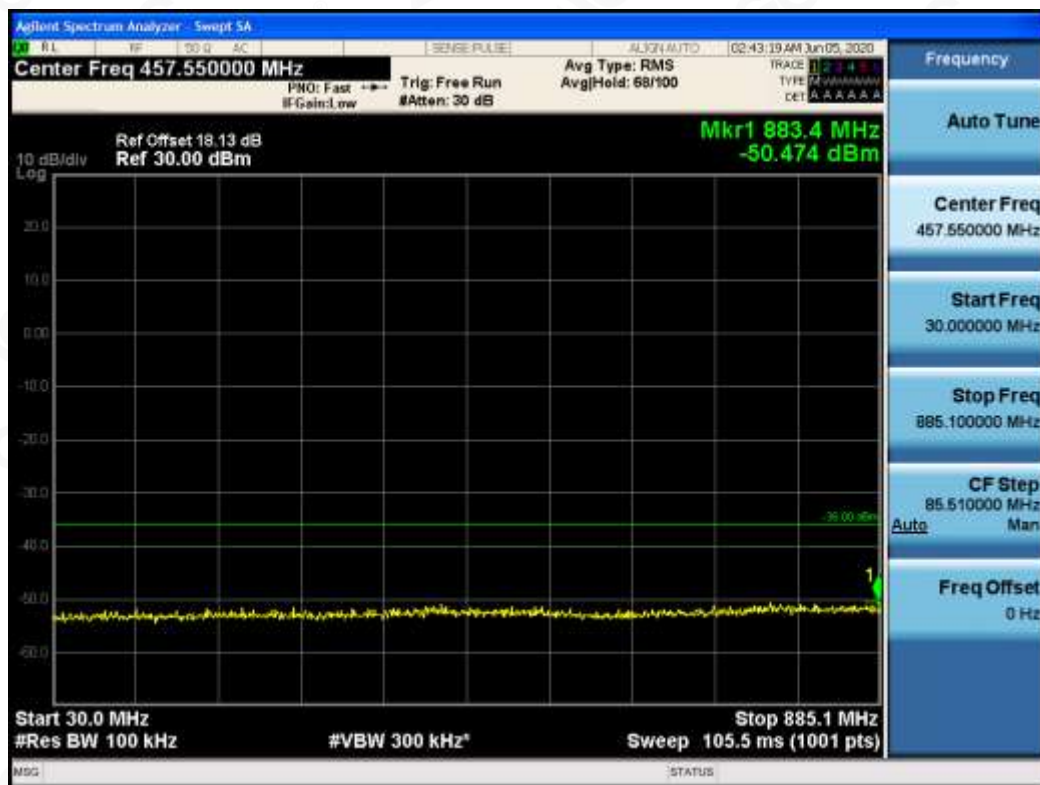
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Web: <http://cn.agc-cert.com/>

30MHz~1GHz



1GHZ~12.75GHZ

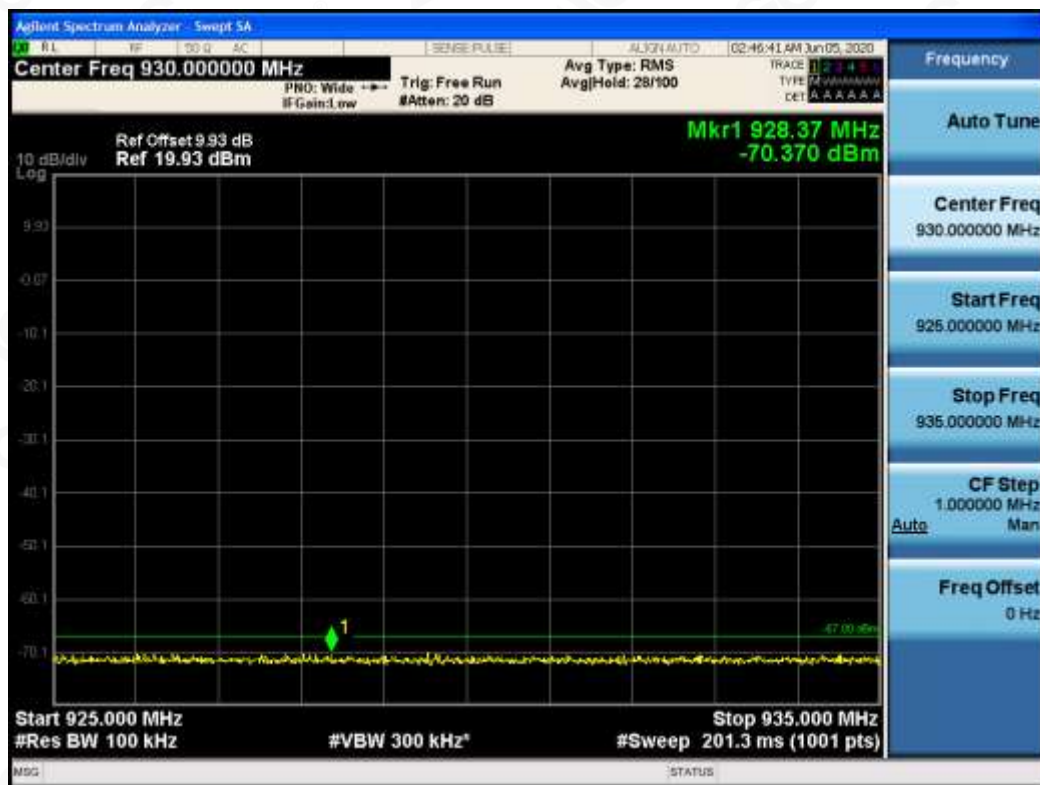


791MHz~821MHz





925MHZ~935MHZ



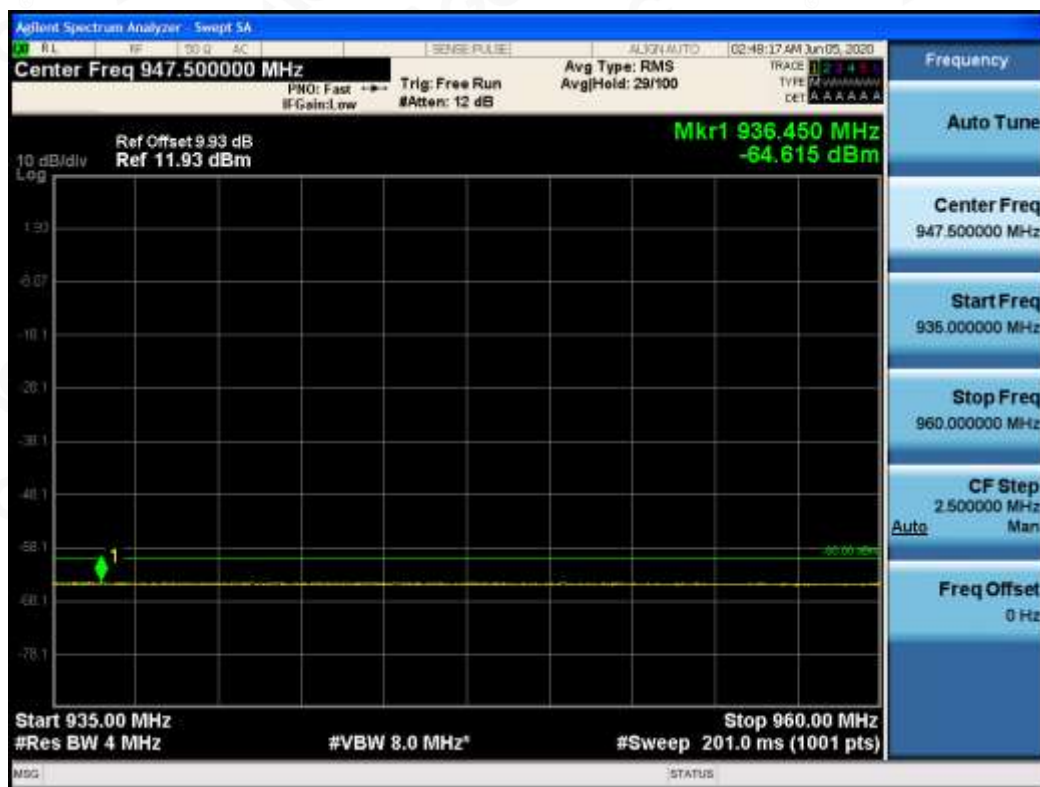
925MHZ~935MHZ



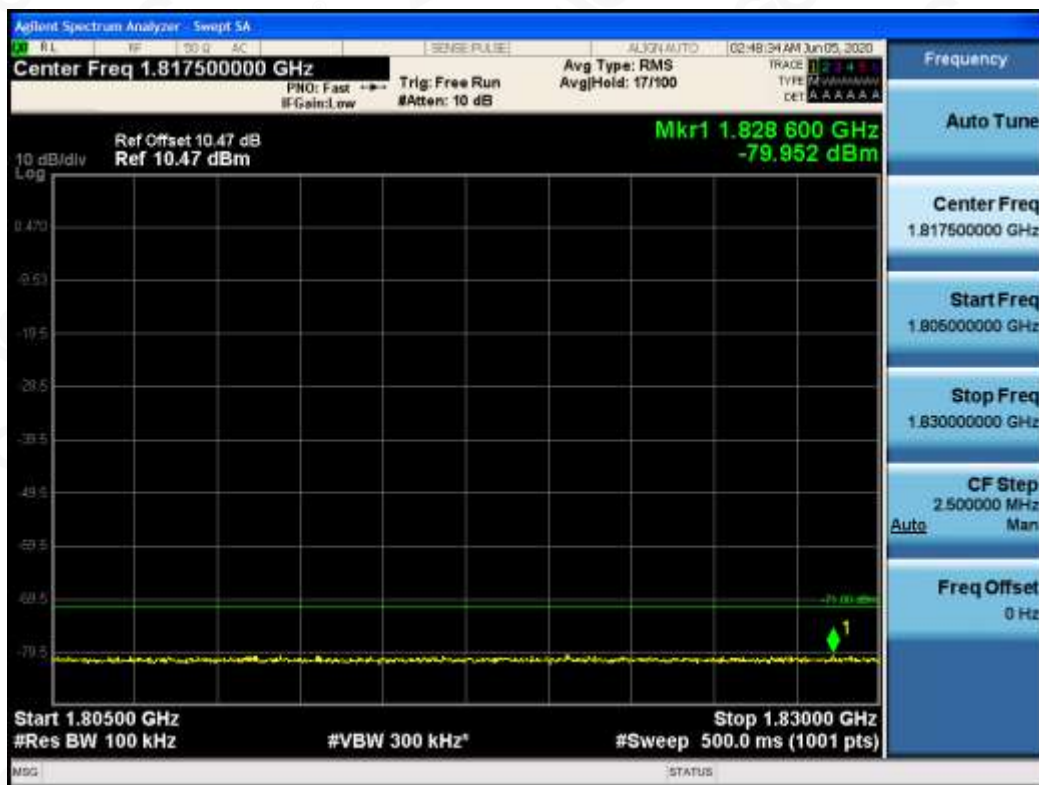
935MHZ~960MHZ



935MHZ~960MHZ



1805MHZ~1830MHZ



1805MHZ~1830MHZ





1830MHZ~1880MHZ



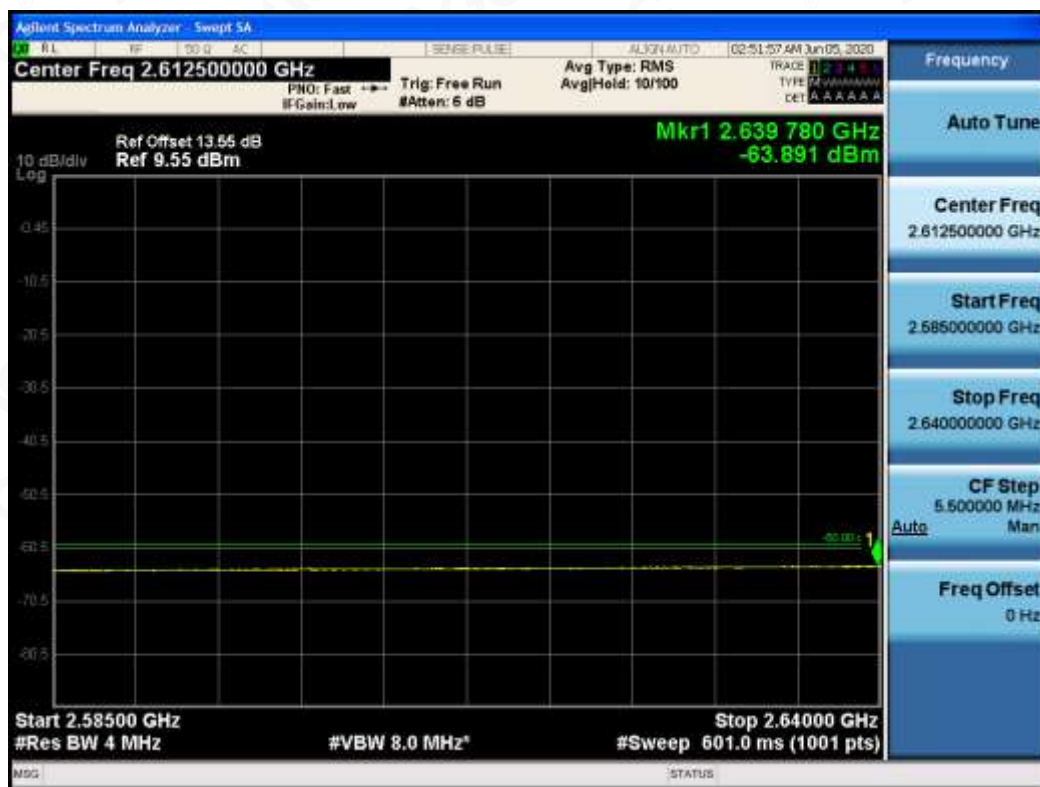
1830MHZ~1880MHZ



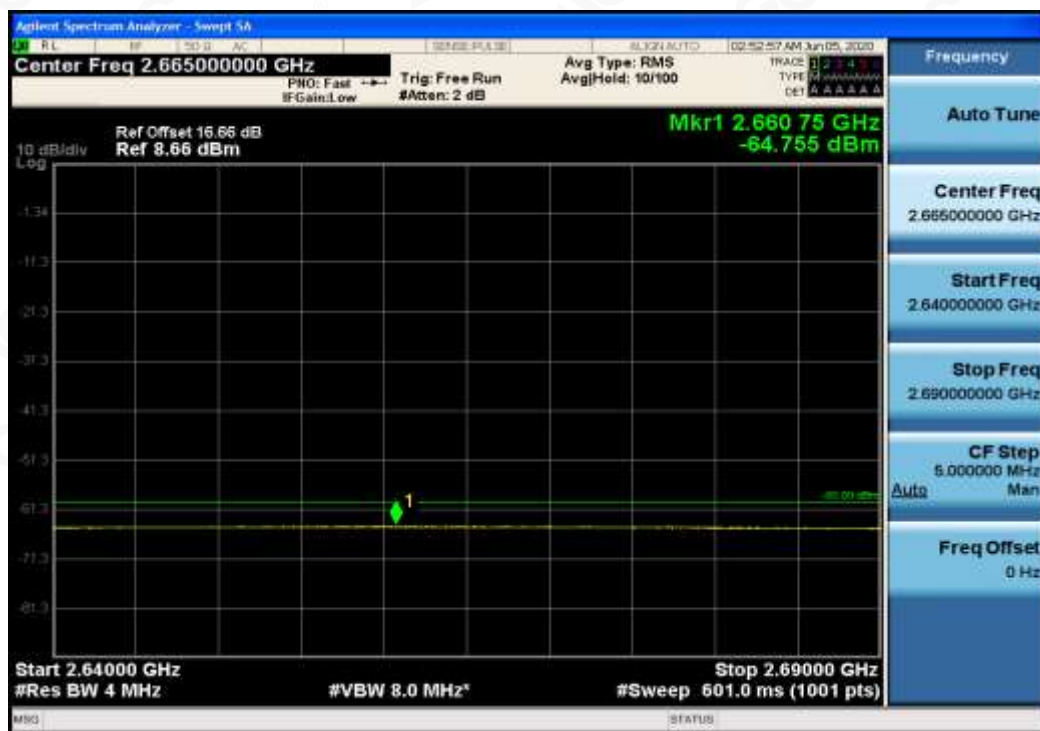
2110MHZ~2170MHZ



2585MHZ~2640MHZ

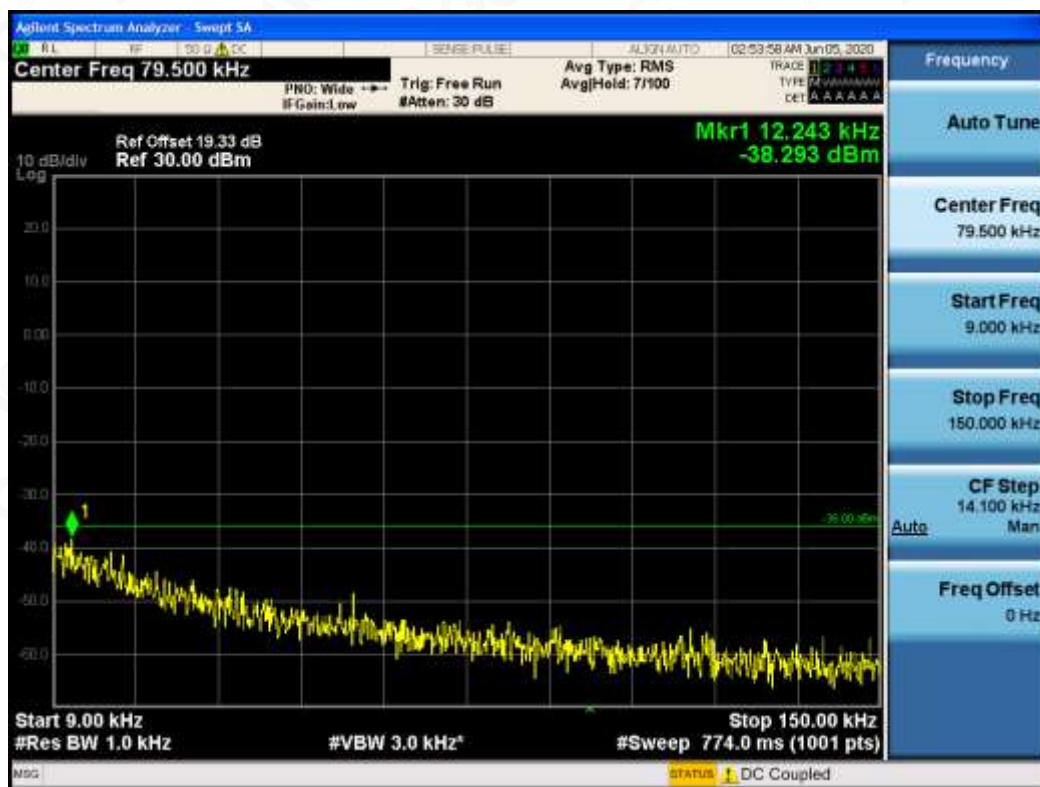


2640MHZ~2690MHZ



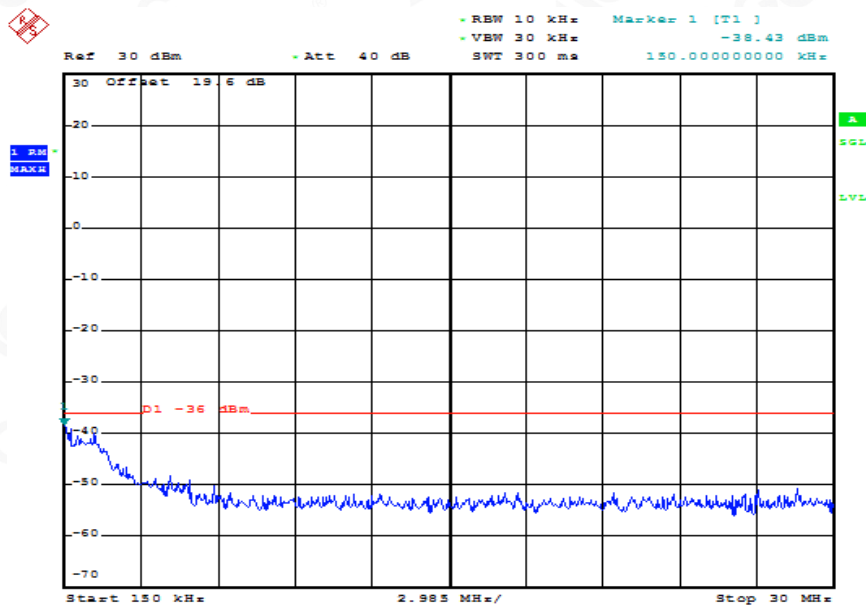
Channel HCH

9KHZ~150KHZ





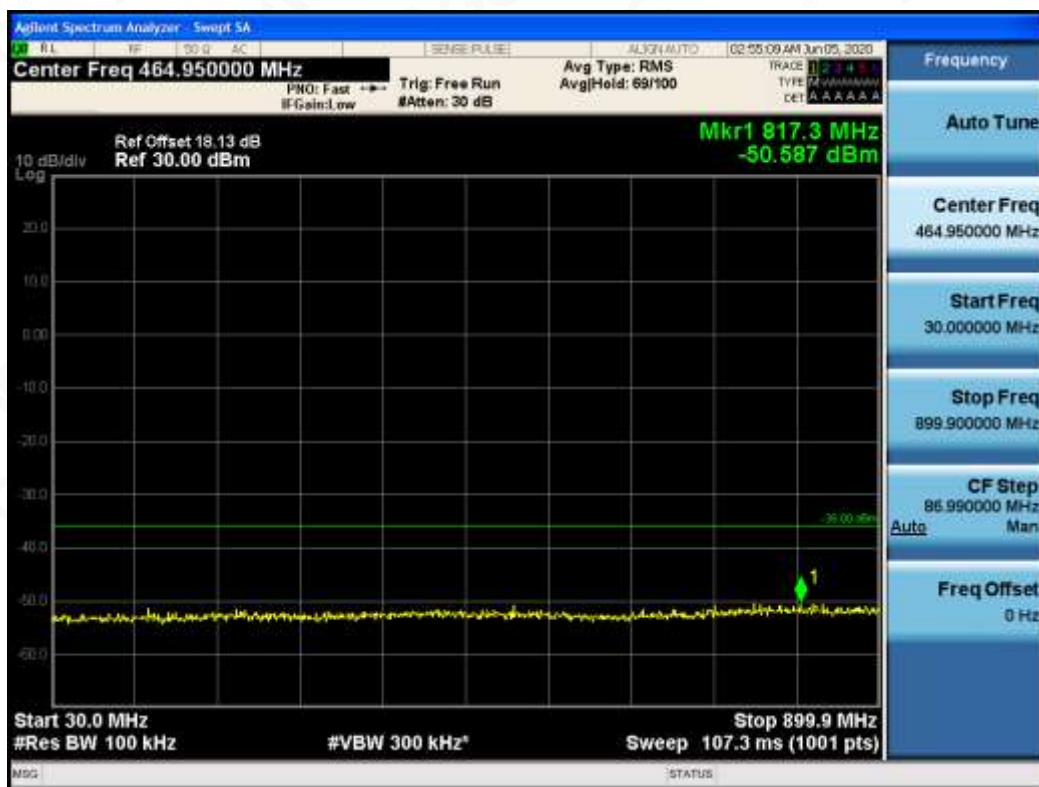
150KHZ~30MHZ

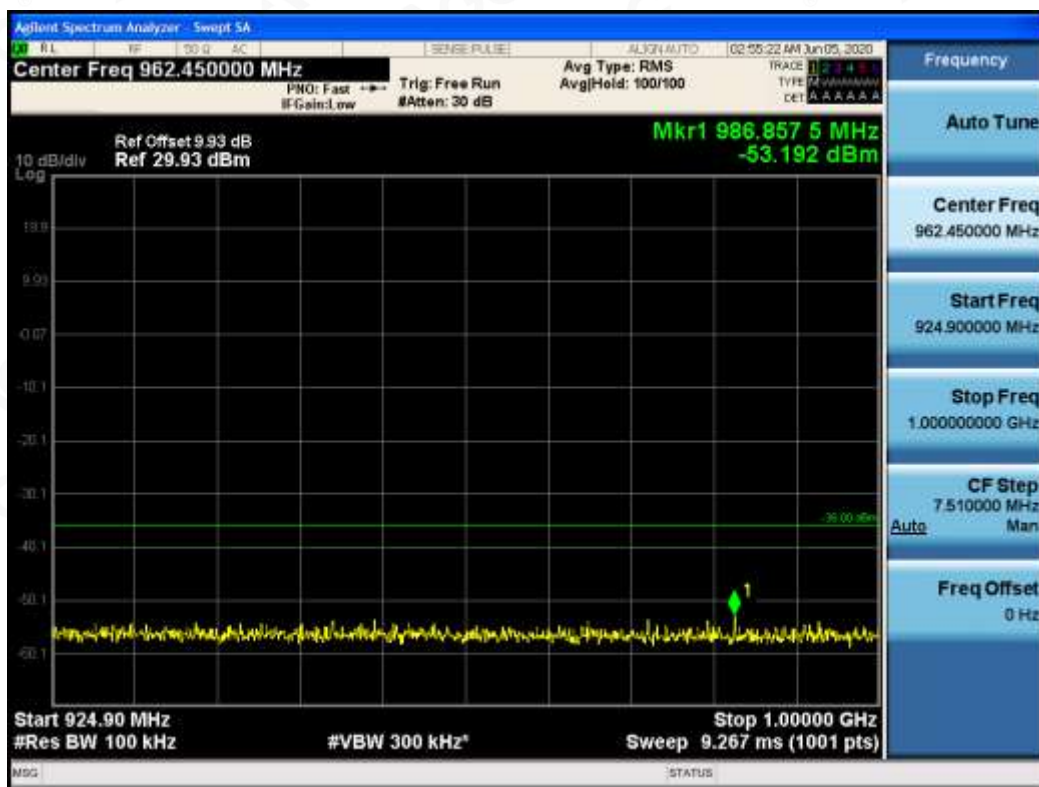


AAA

Date: 28.MAY.2020 15:20:27

30MHZ~1GHZ





1GHZ~12.75GHZ



791MHZ~821MHZ

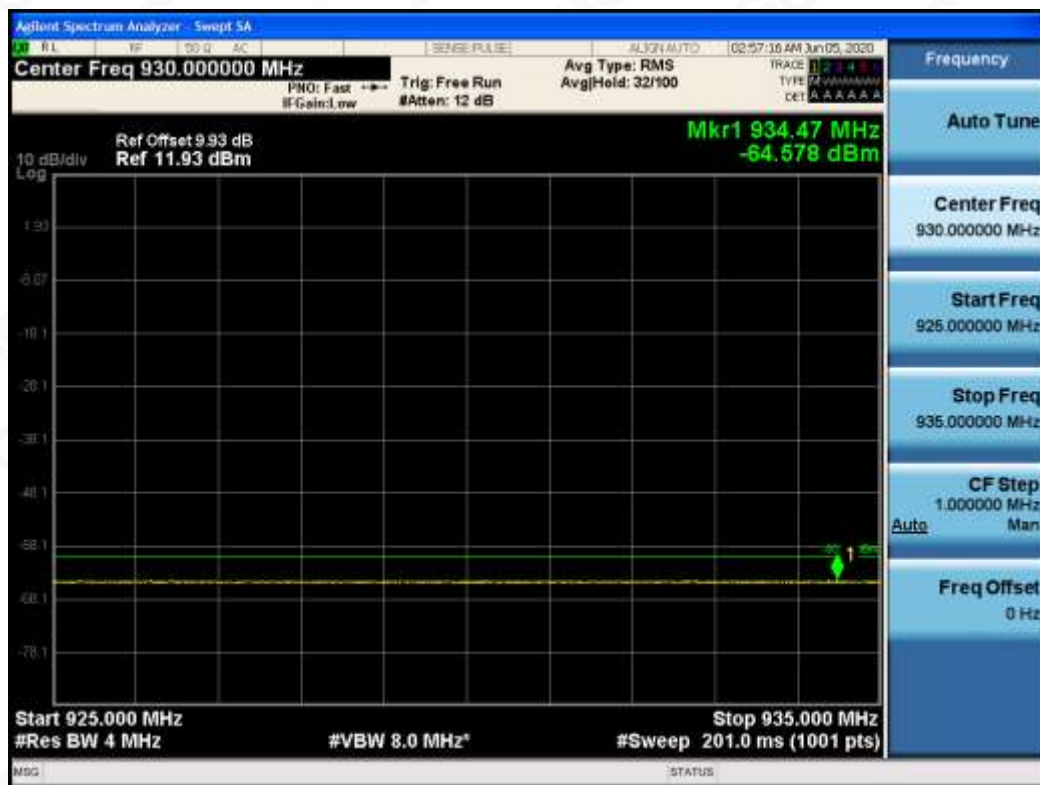


925MHZ~935MHZ





925MHZ~935MHZ



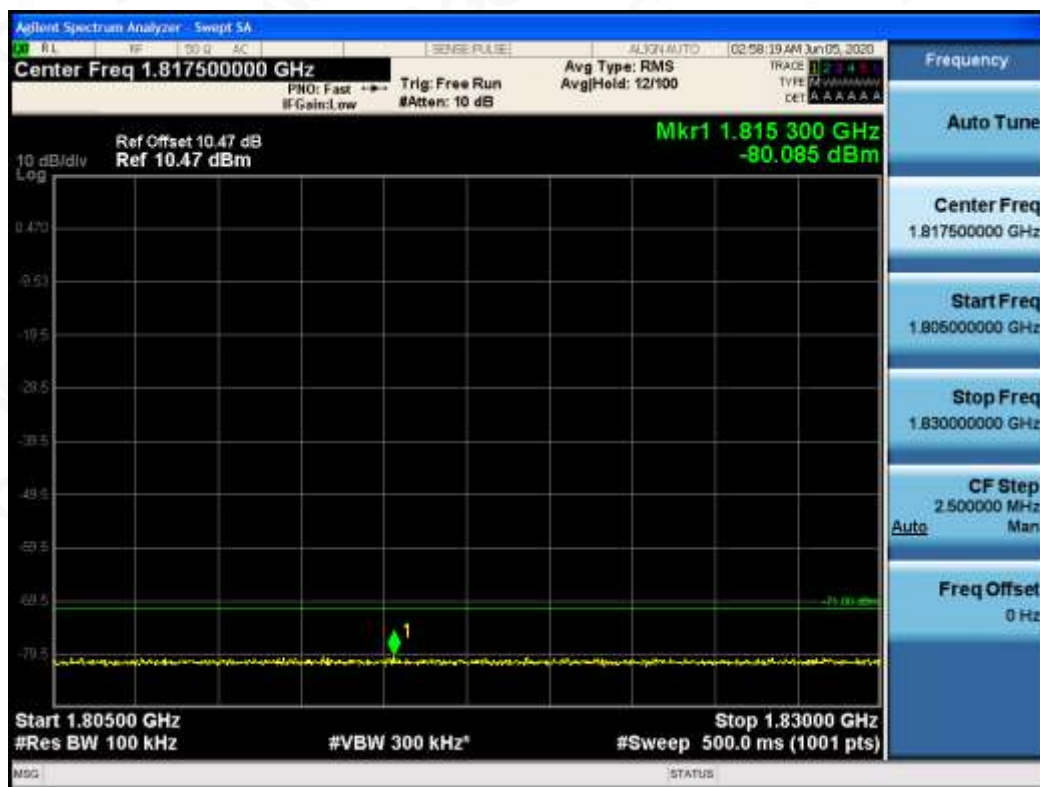
935MHZ~960MHZ



935MHZ~960MHZ



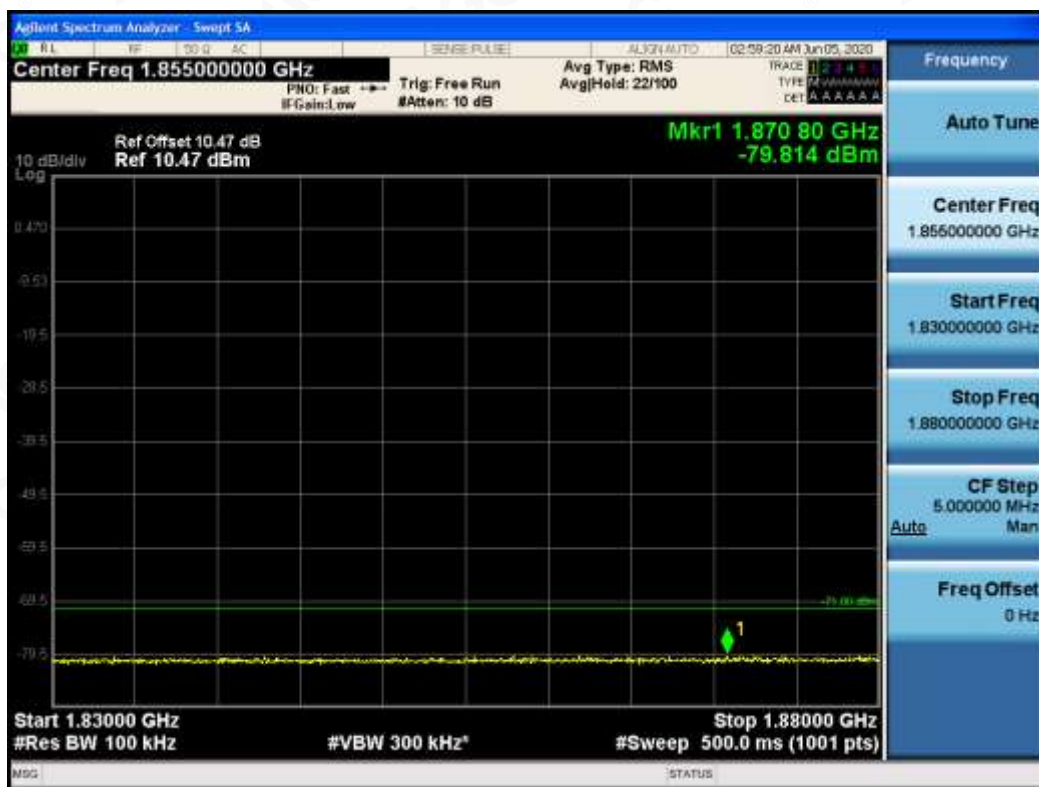
1805MHZ~1830MHZ



1805MHZ~1830MHZ



1830MHZ~1880MHZ





1830MHz~1880MHz



2110MHz~2170MHz



2585MHZ~2640MHZ



2640MHZ~2690MHZ



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

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I&BAND VIII TNVN ) of fellow:

Operating Band	Test Conditions	Test Channel	Sub-test	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	1	22.48	24(+1.7/-3.7)	Pass
			2	21.86	24(+1.7/-3.7)	Pass
			3	21.83	23.5(+2.2/-3.7)	Pass
			4	21.76	23.5(+2.2/-3.7)	Pass
		MCH	1	22.55	24(+1.7/-3.7)	Pass
			2	21.94	24(+1.7/-3.7)	Pass
			3	21.90	23.5(+2.2/-3.7)	Pass
			4	21.85	23.5(+2.2/-3.7)	Pass
		HCH	1	22.42	24(+1.7/-3.7)	Pass
			2	21.80	24(+1.7/-3.7)	Pass
			3	21.80	23.5(+2.2/-3.7)	Pass
			4	21.72	23.5(+2.2/-3.7)	Pass
Band VIII	TNVN	LCH	1	21.73	24(+1.7/-3.7)	Pass
			2	21.12	24(+1.7/-3.7)	Pass
			3	21.06	23.5(+2.2/-3.7)	Pass
			4	21.04	23.5(+2.2/-3.7)	Pass
		MCH	1	21.84	24(+1.7/-3.7)	Pass
			2	21.20	24(+1.7/-3.7)	Pass
			3	21.07	23.5(+2.2/-3.7)	Pass
			4	21.04	23.5(+2.2/-3.7)	Pass
		HCH	1	22.18	24(+1.7/-3.7)	Pass
			2	21.49	24(+1.7/-3.7)	Pass
			3	21.45	23.5(+2.2/-3.7)	Pass
			4	21.39	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

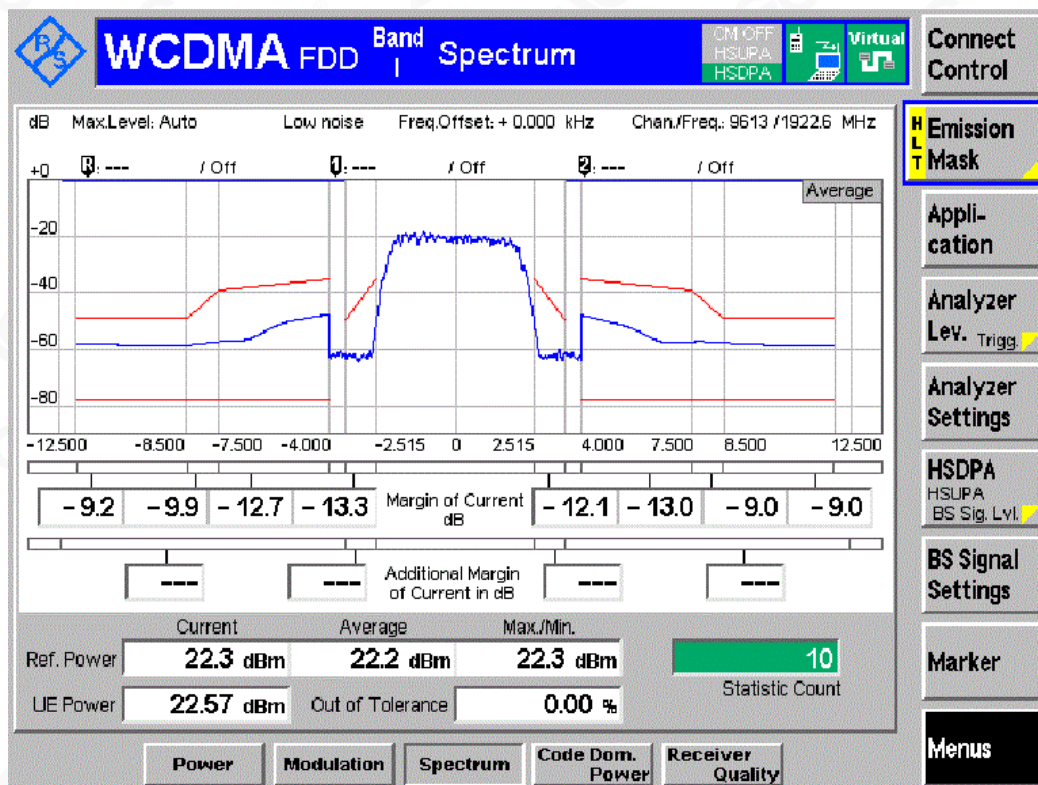
Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band VIII	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS

#### BAND I

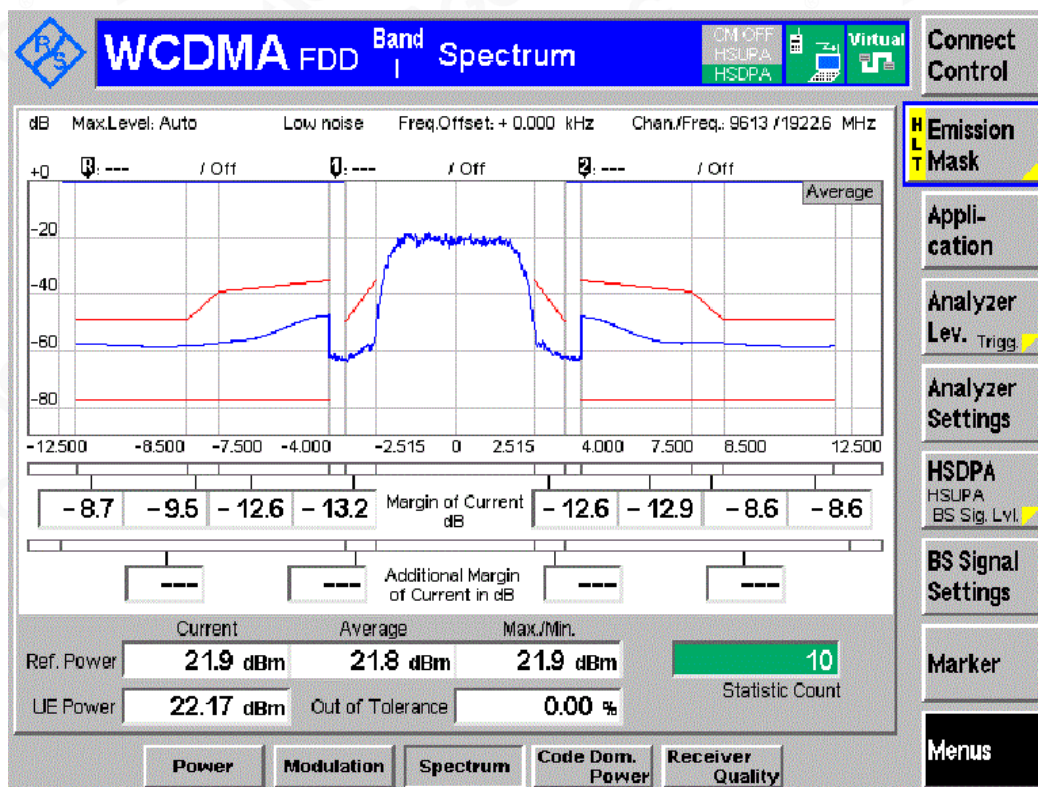
#### Channel LCH



### Sub-test 1

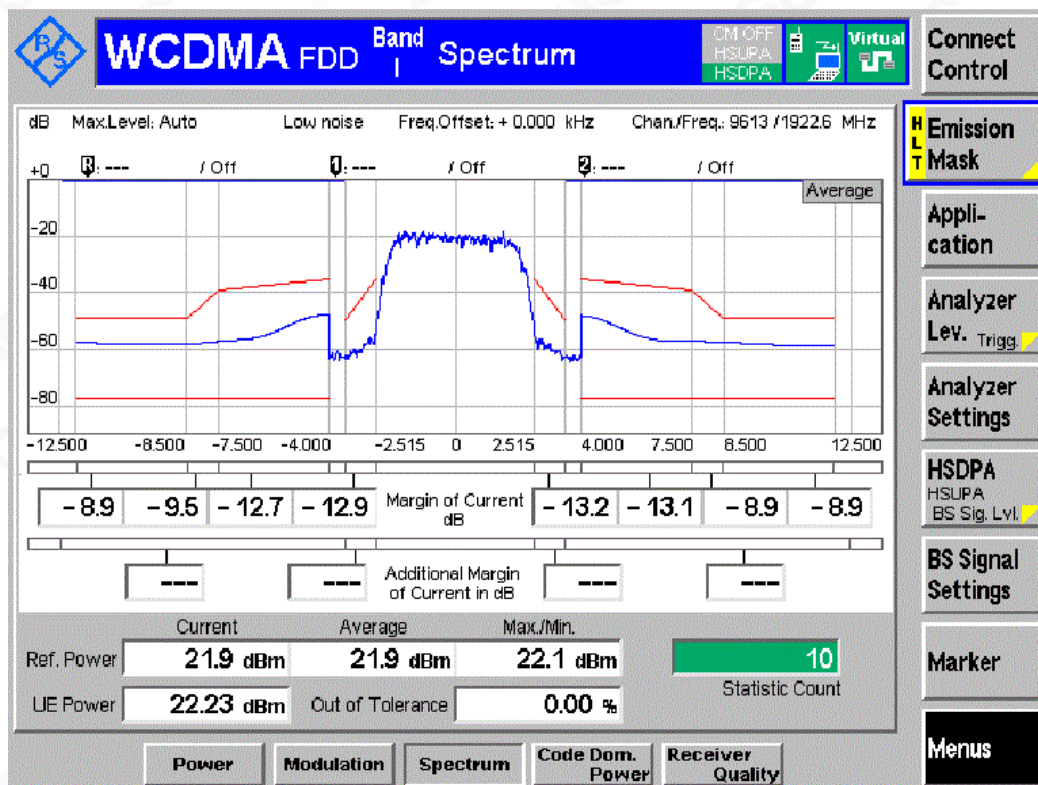


### Sub-test 2

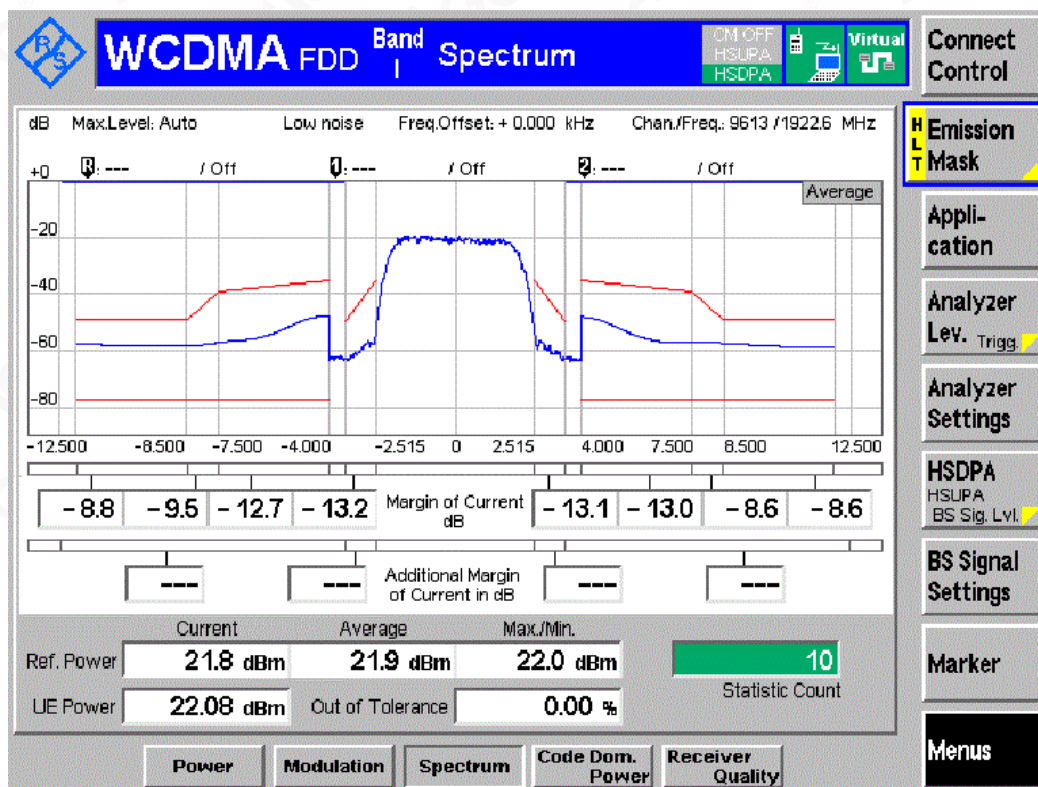




### Sub-test 3



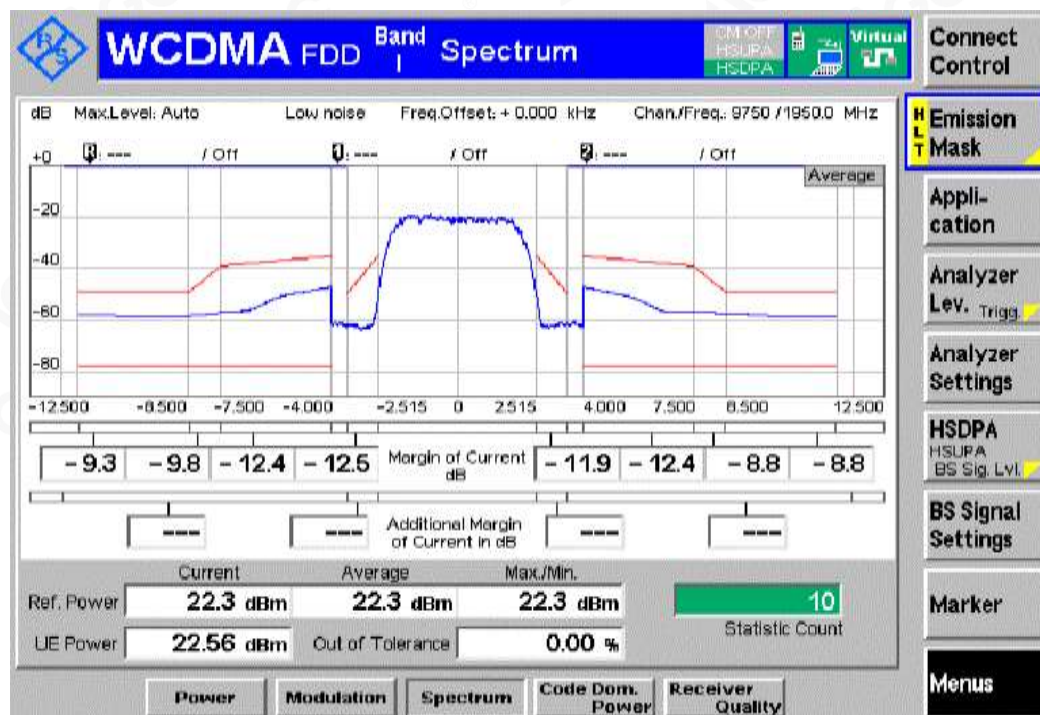
### Sub-test 4



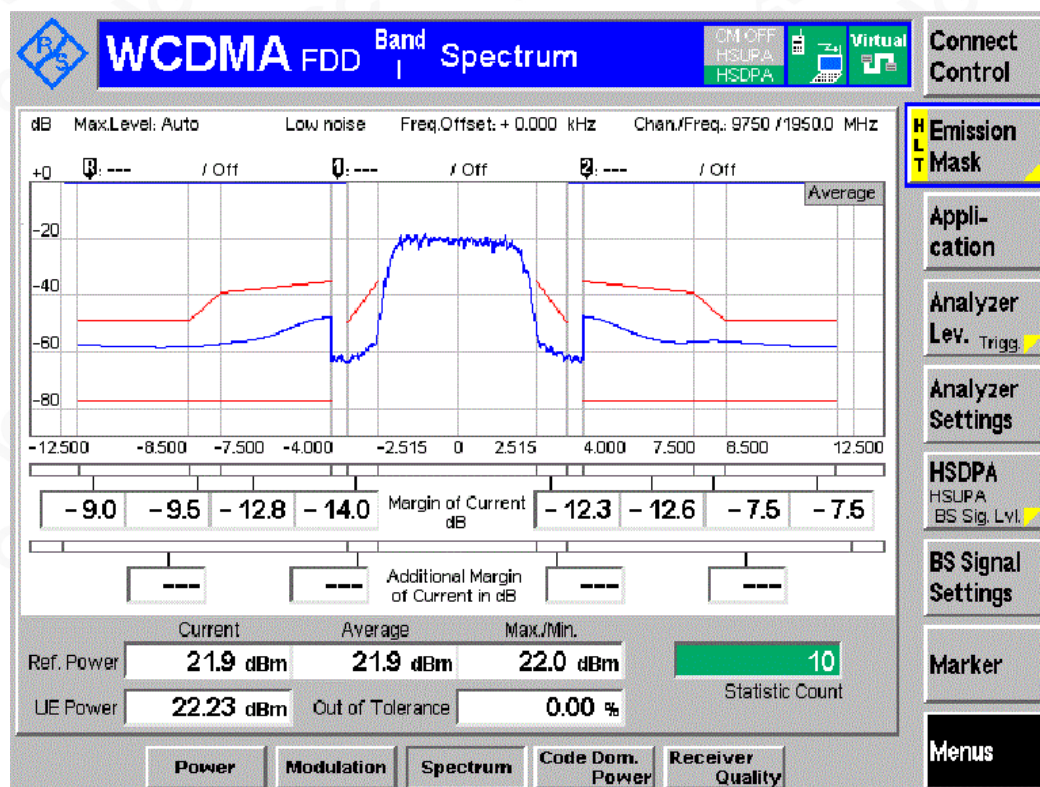


## Channel MCH

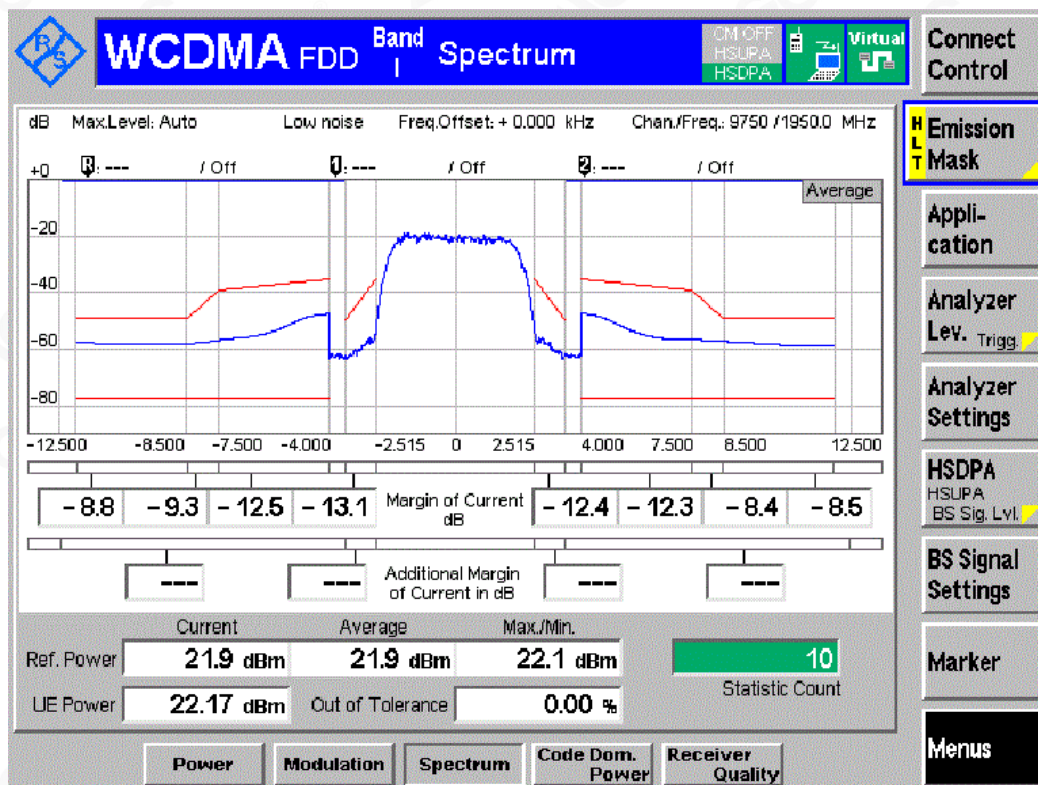
### Sub-test 1



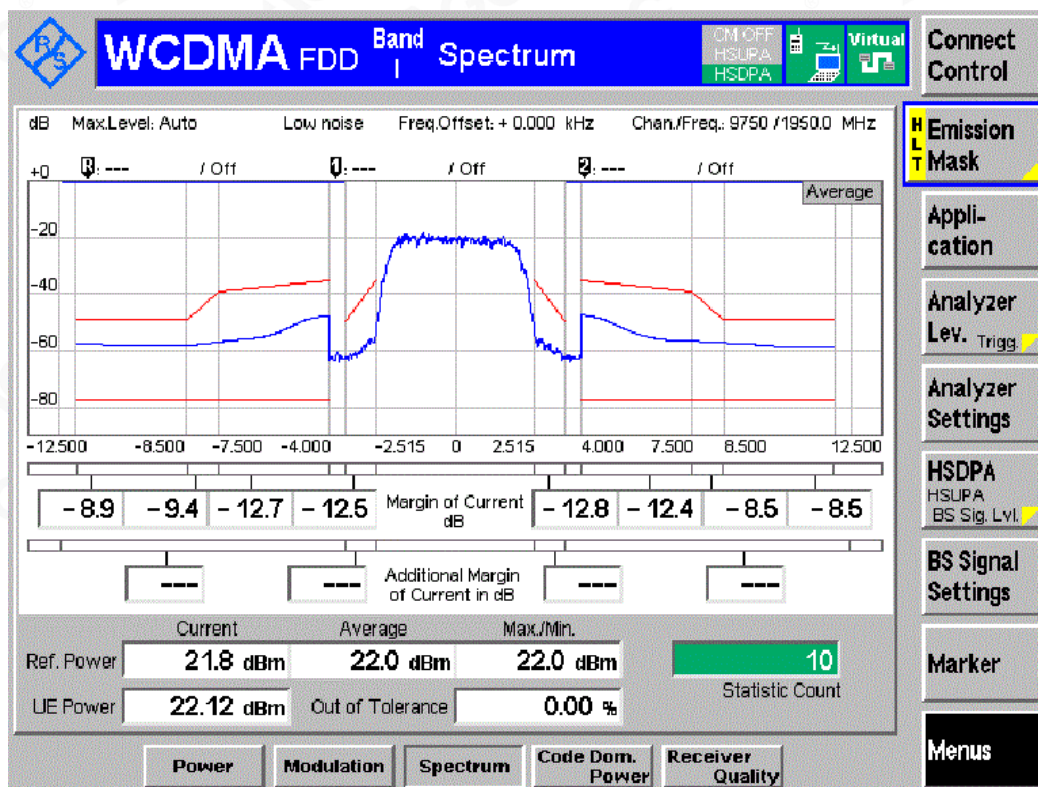
### Sub-test 2



### Sub-test 3



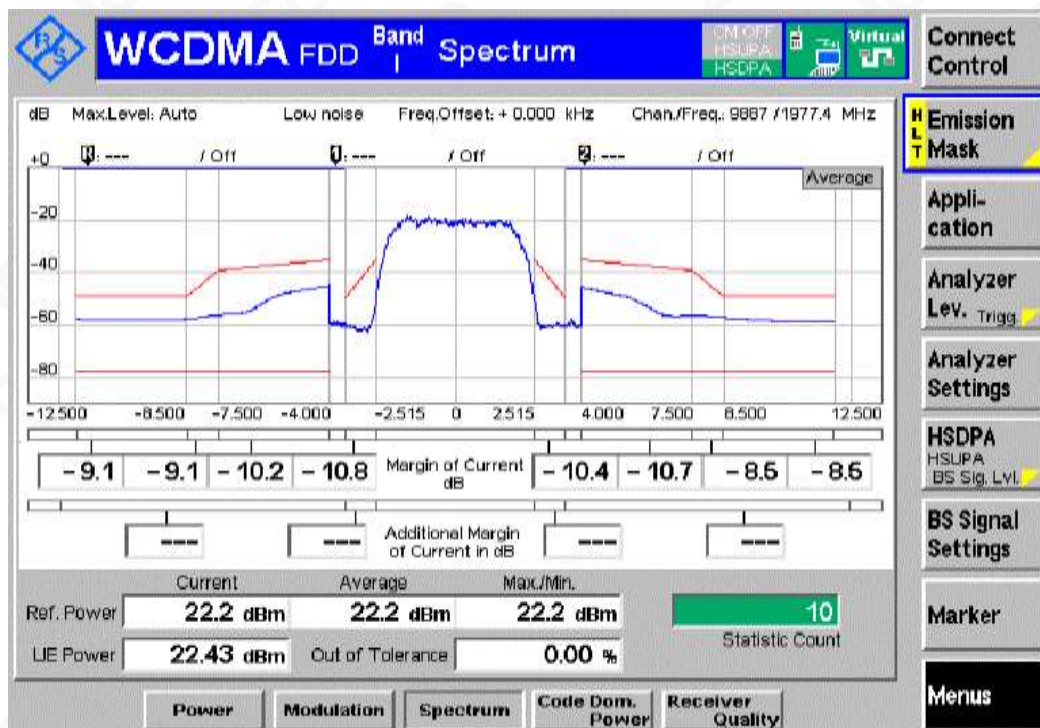
### Sub-test 4



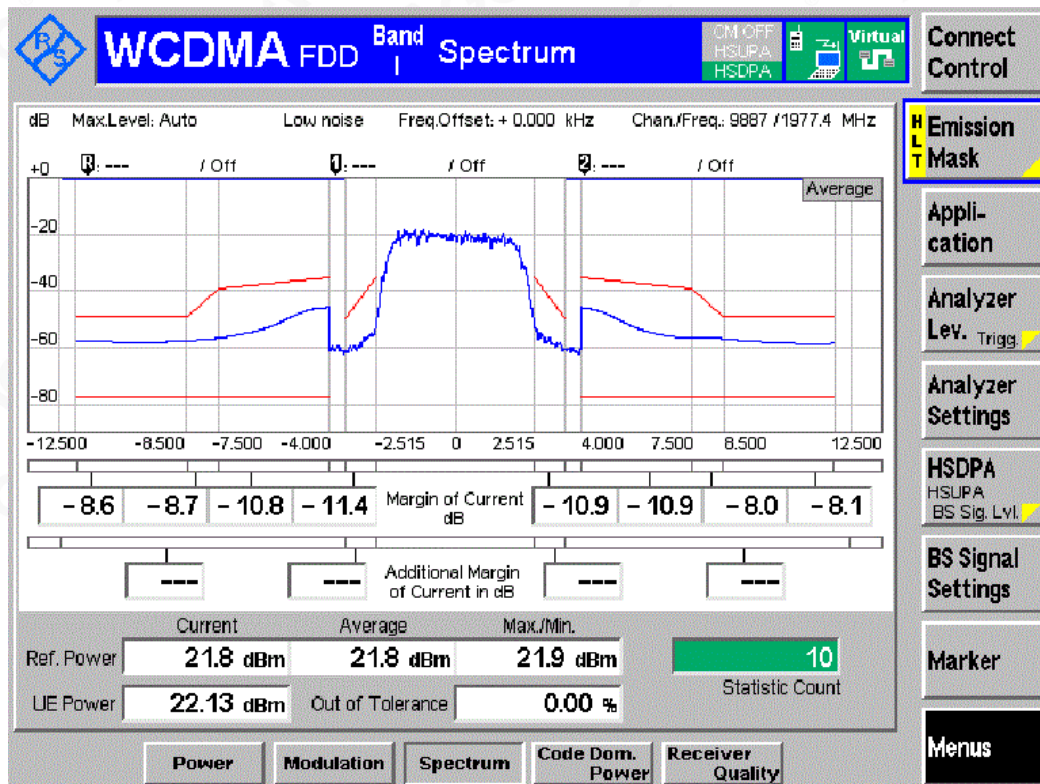


## Channel HCH

### Sub-test 1

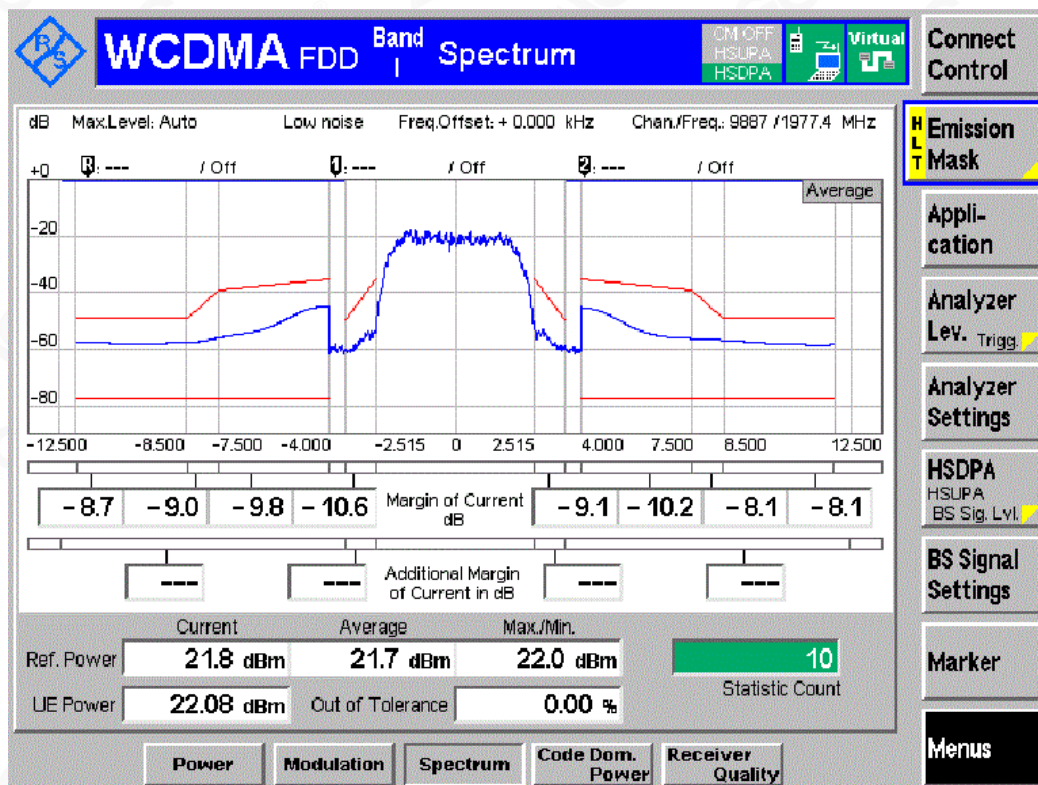


### Sub-test 2

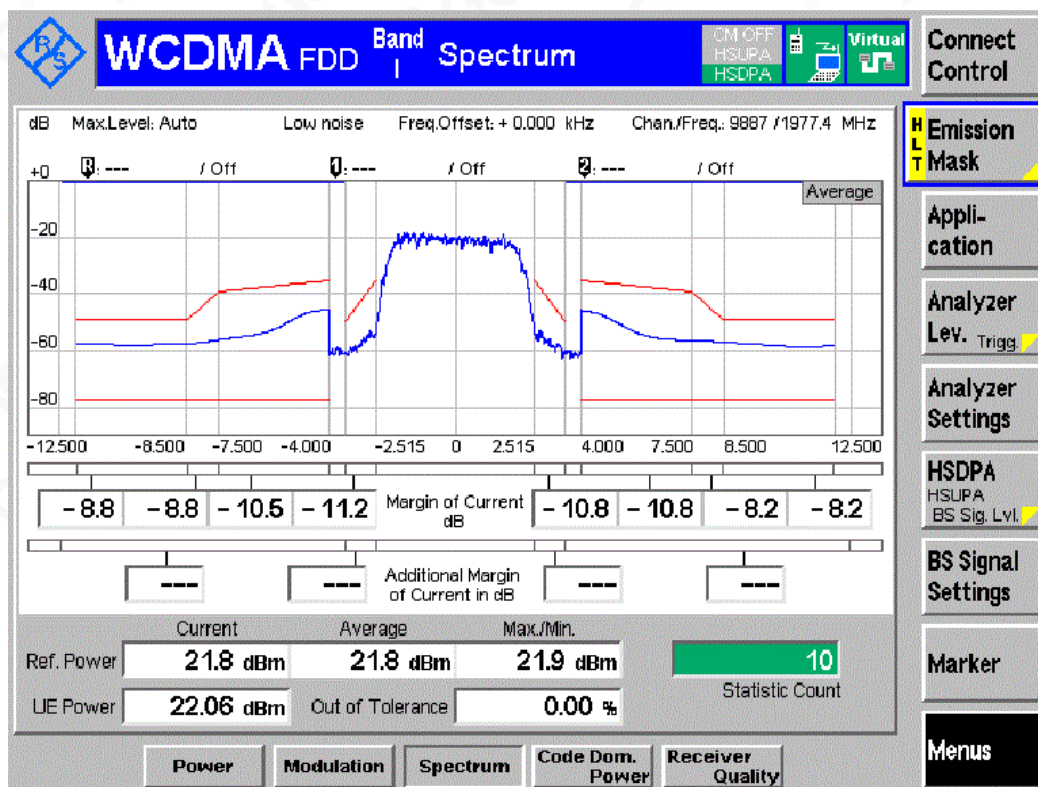




### Sub-test 3



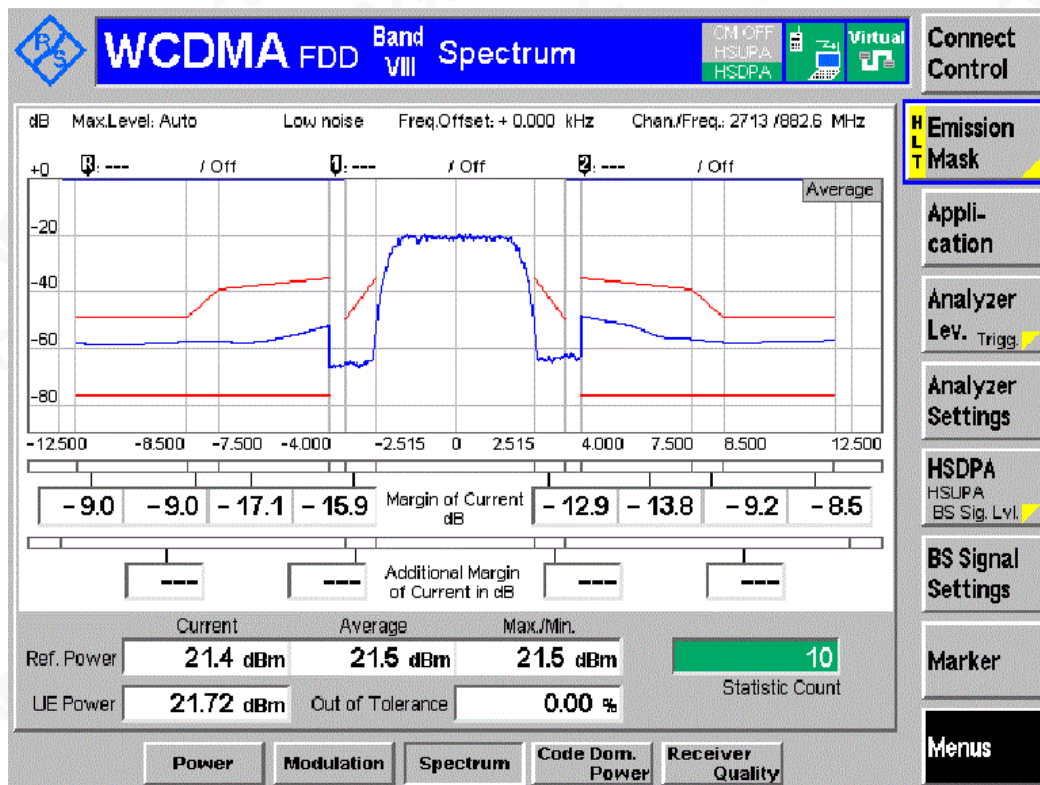
### Sub-test 4



# BAND VIII

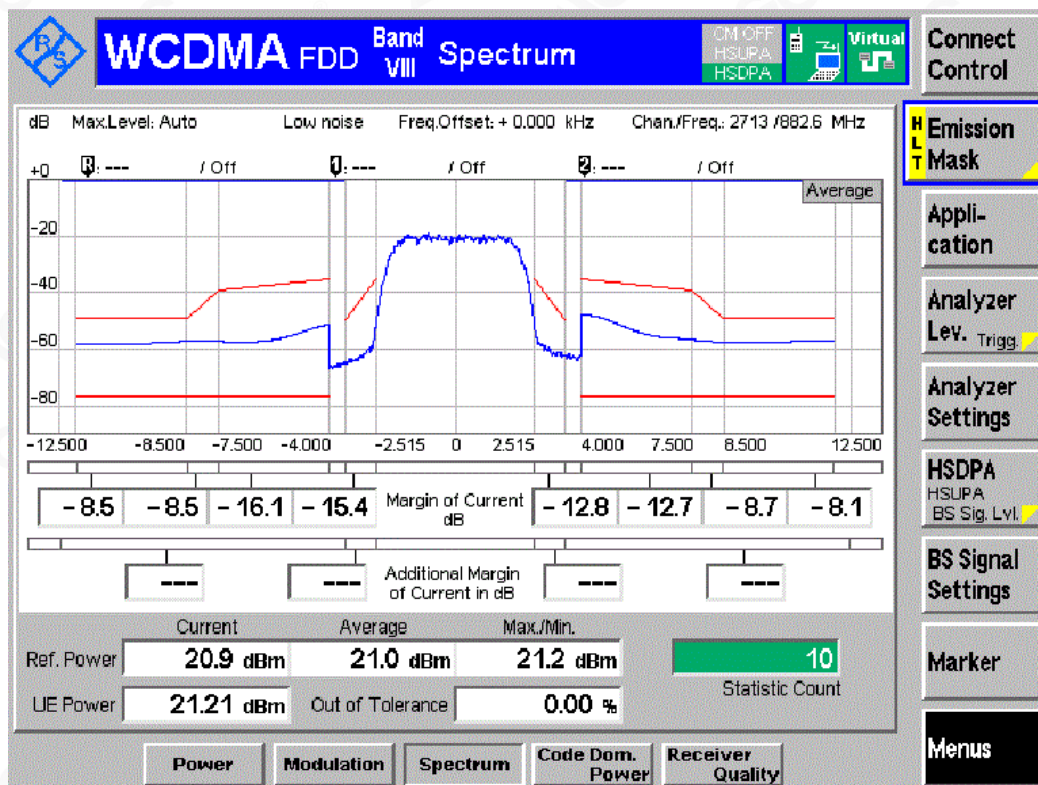
## Channel LCH

### Sub-test 1

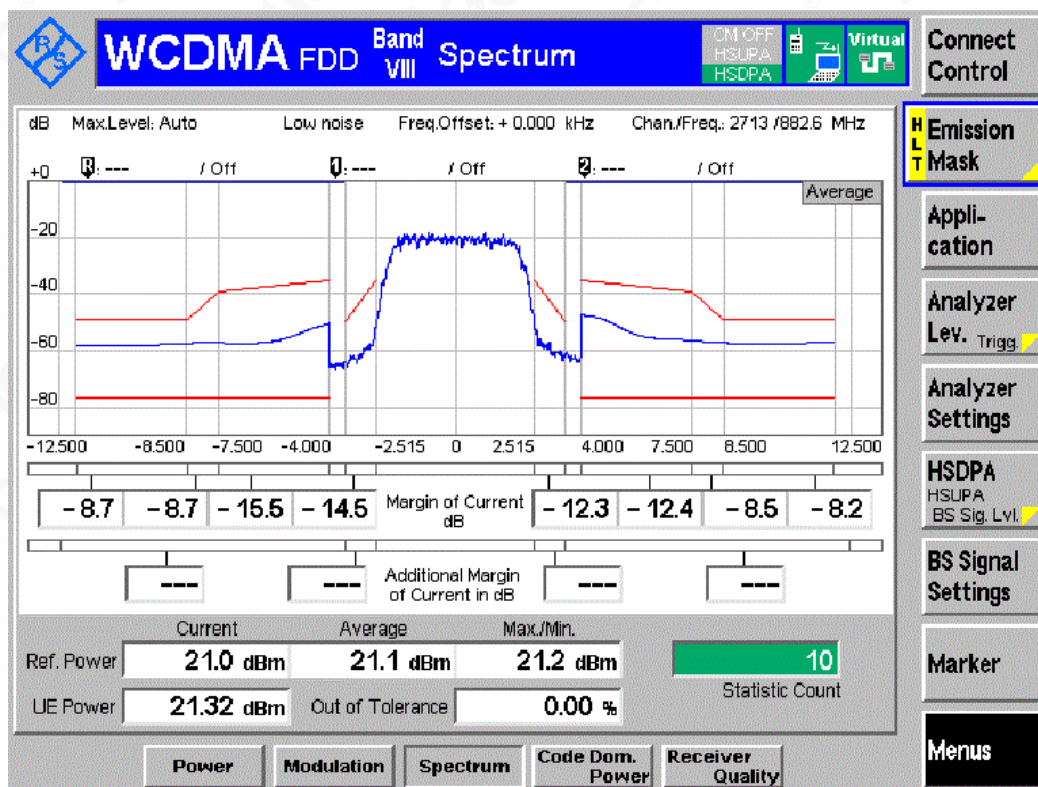




### Sub-test 2

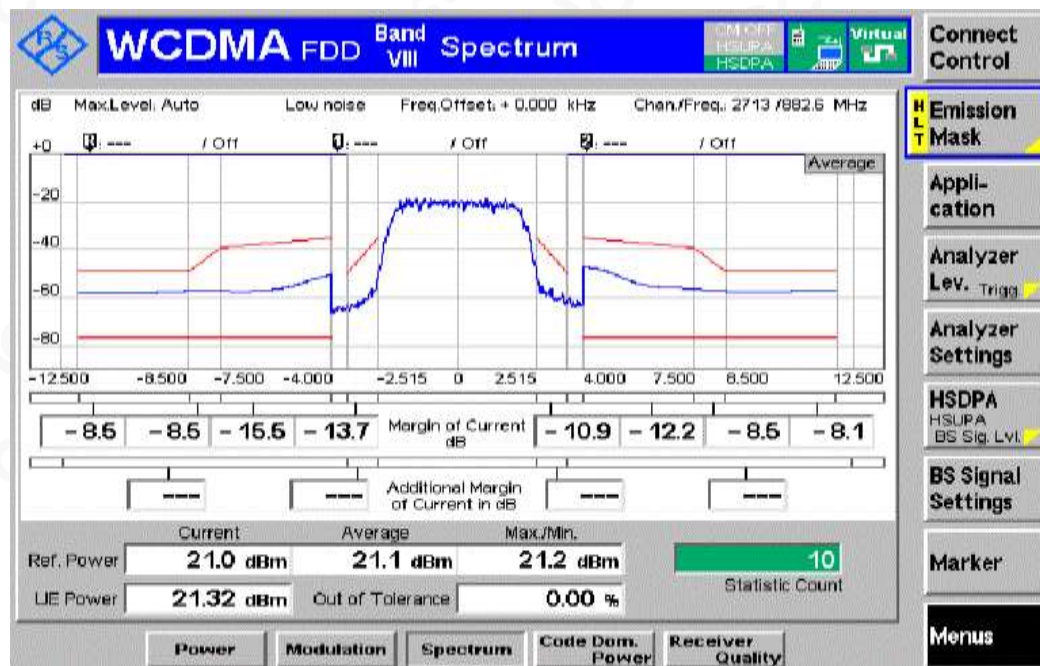


### Sub-test 3



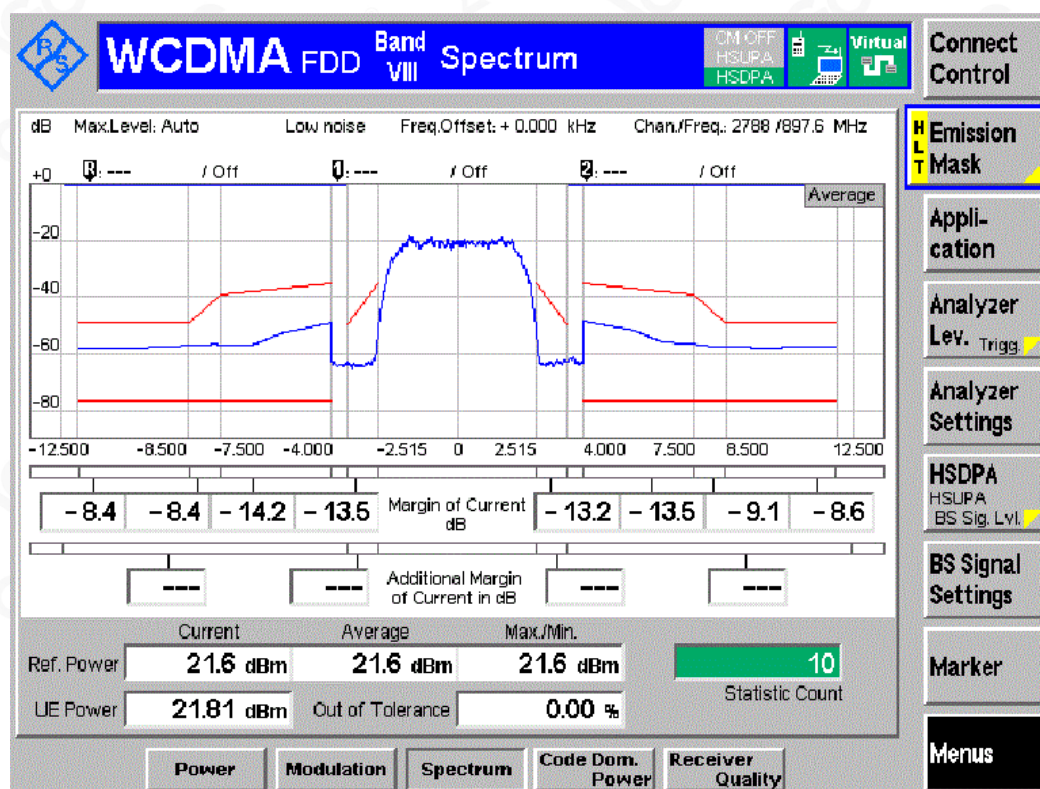


#### Sub-test 4

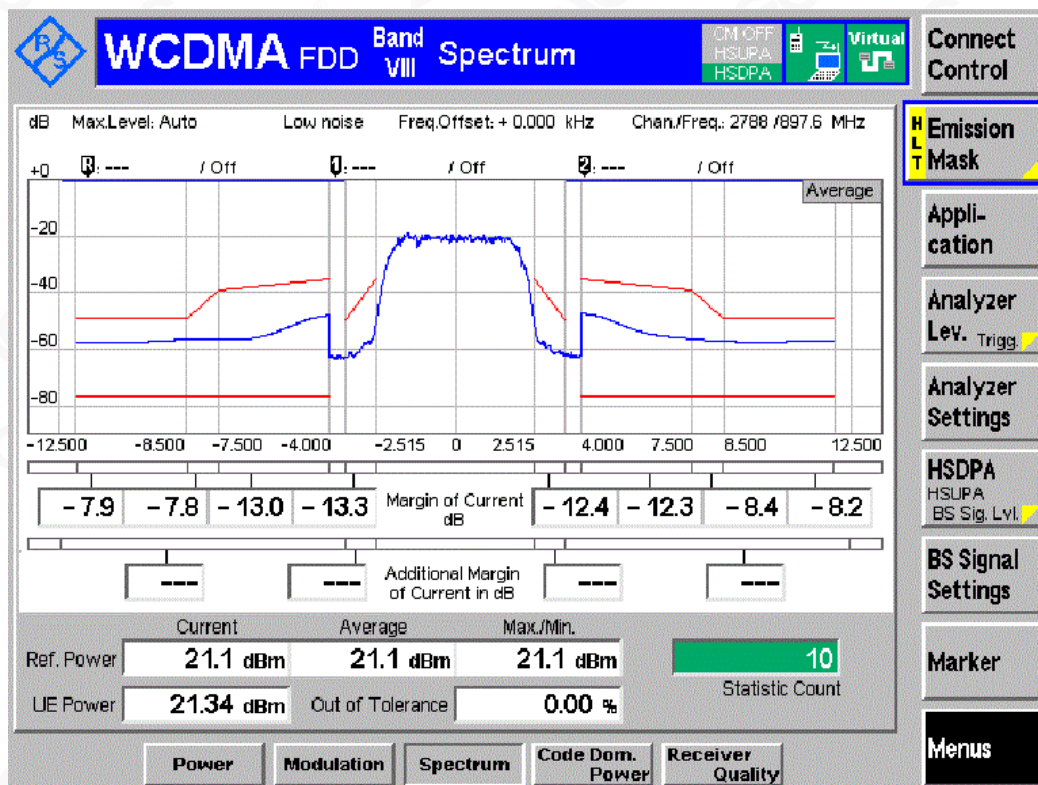


#### Channel MCH

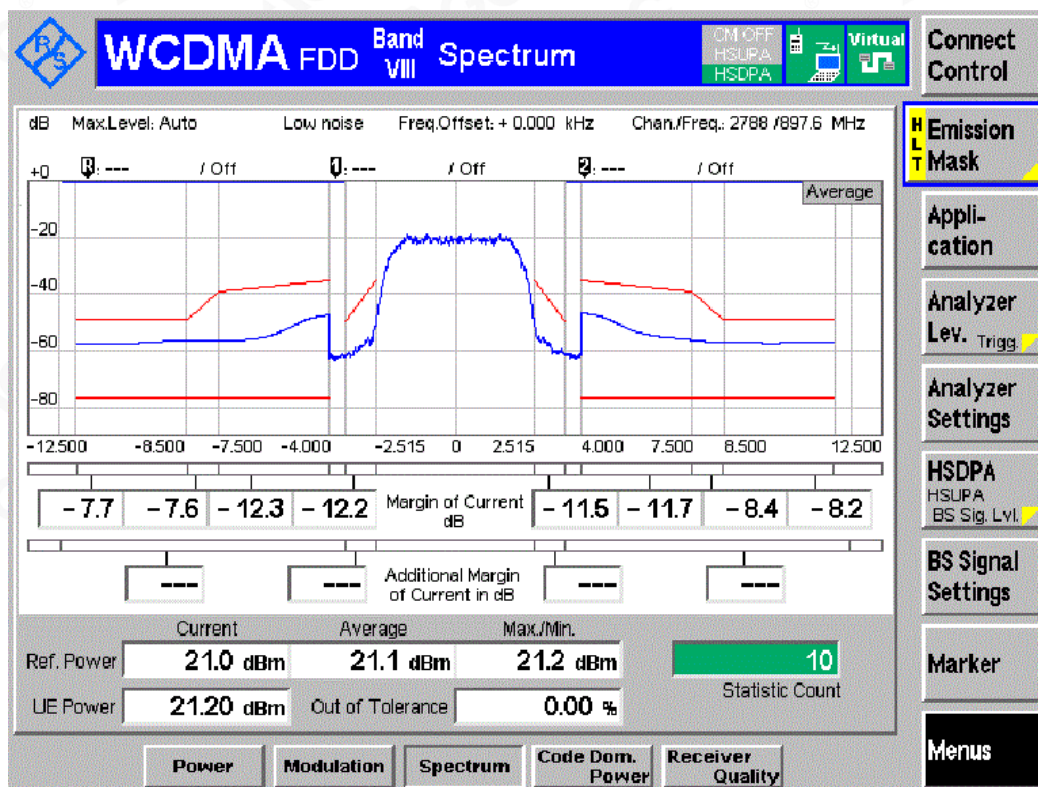
#### Sub-test 1



### Sub-test 2

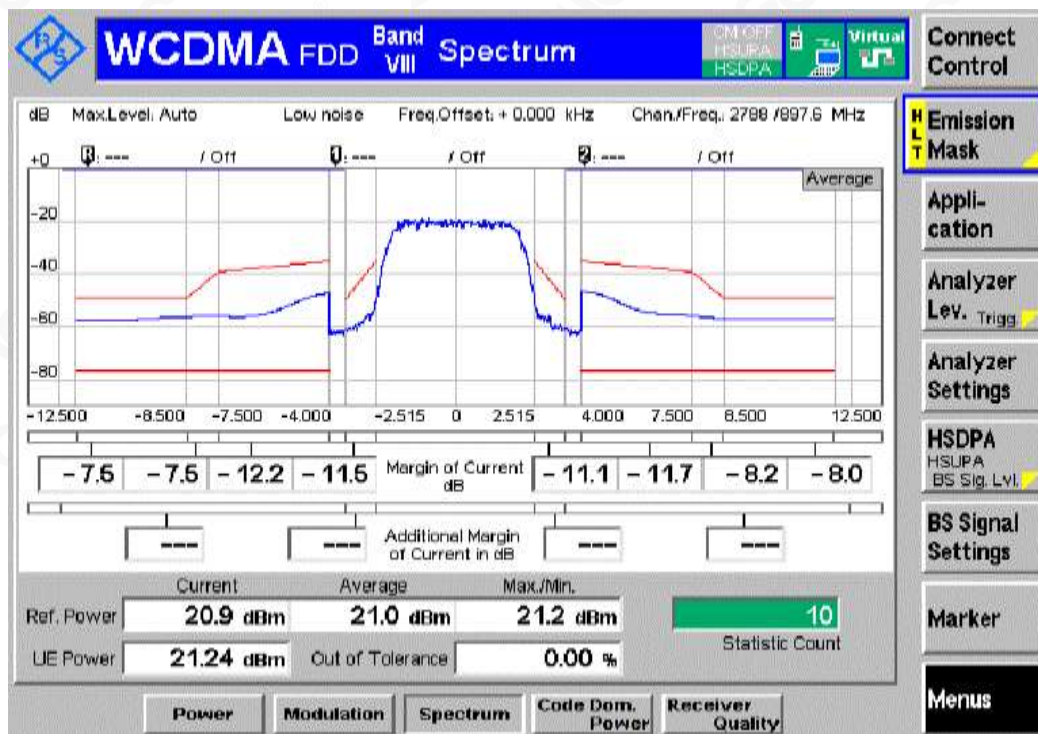


### Sub-test 3



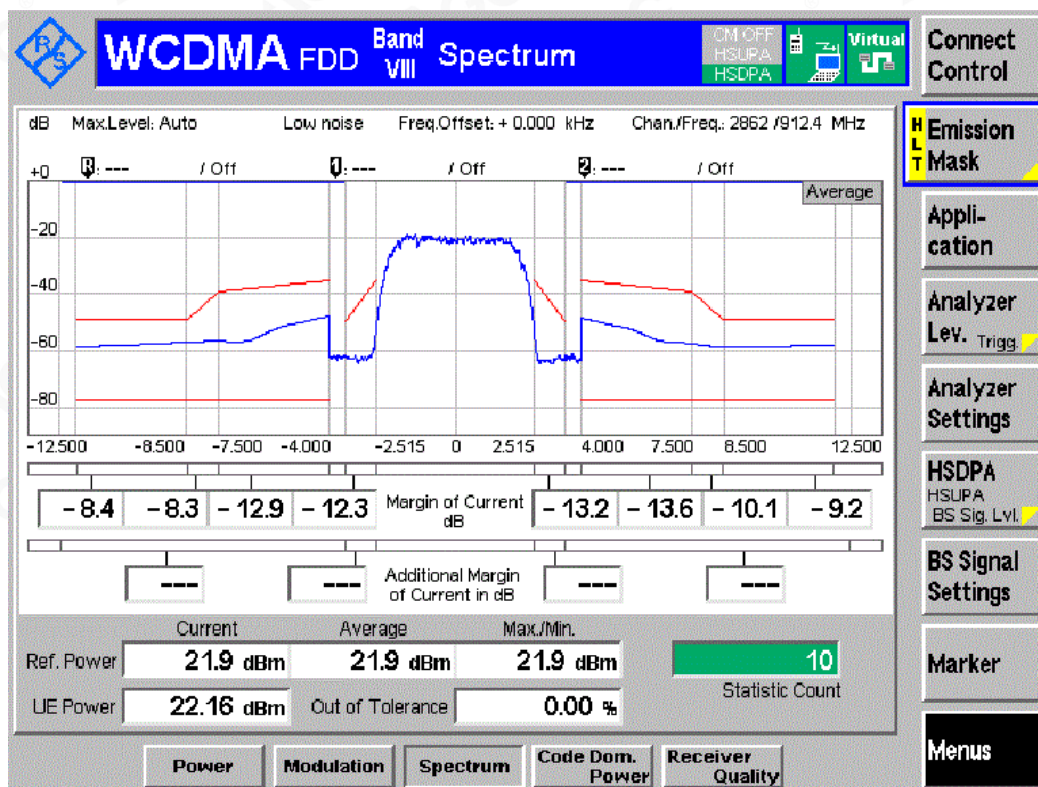


#### Sub-test 4



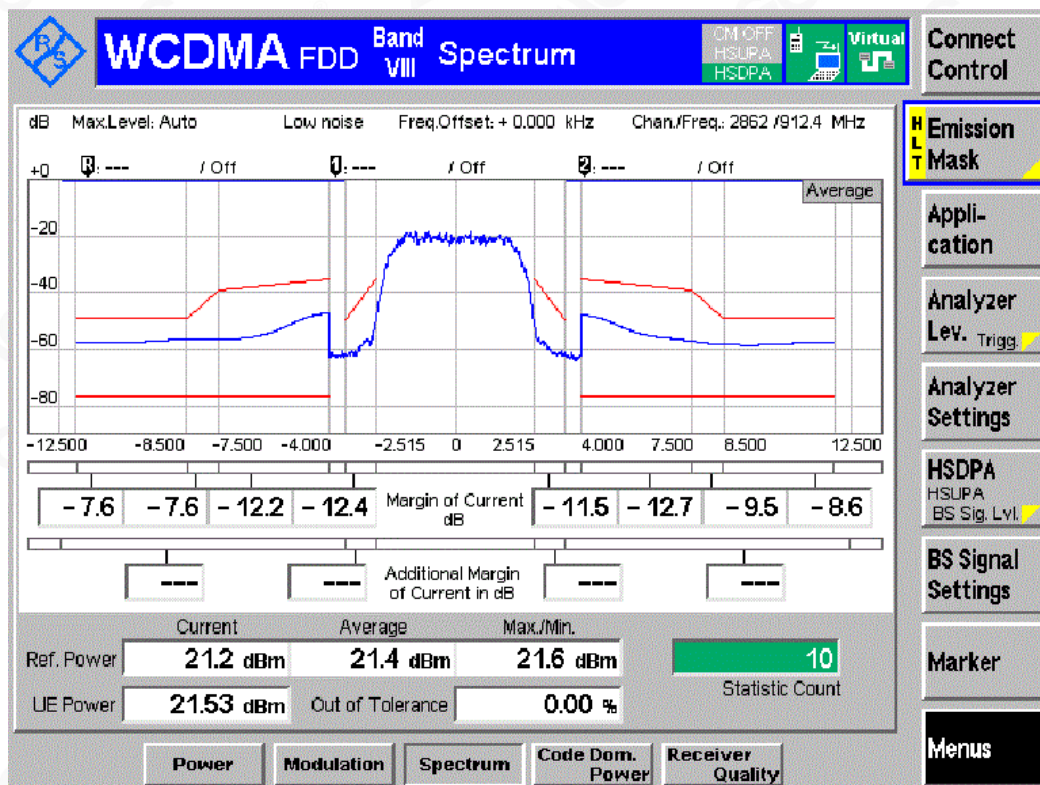
#### Channel HCH

#### Sub-test 1

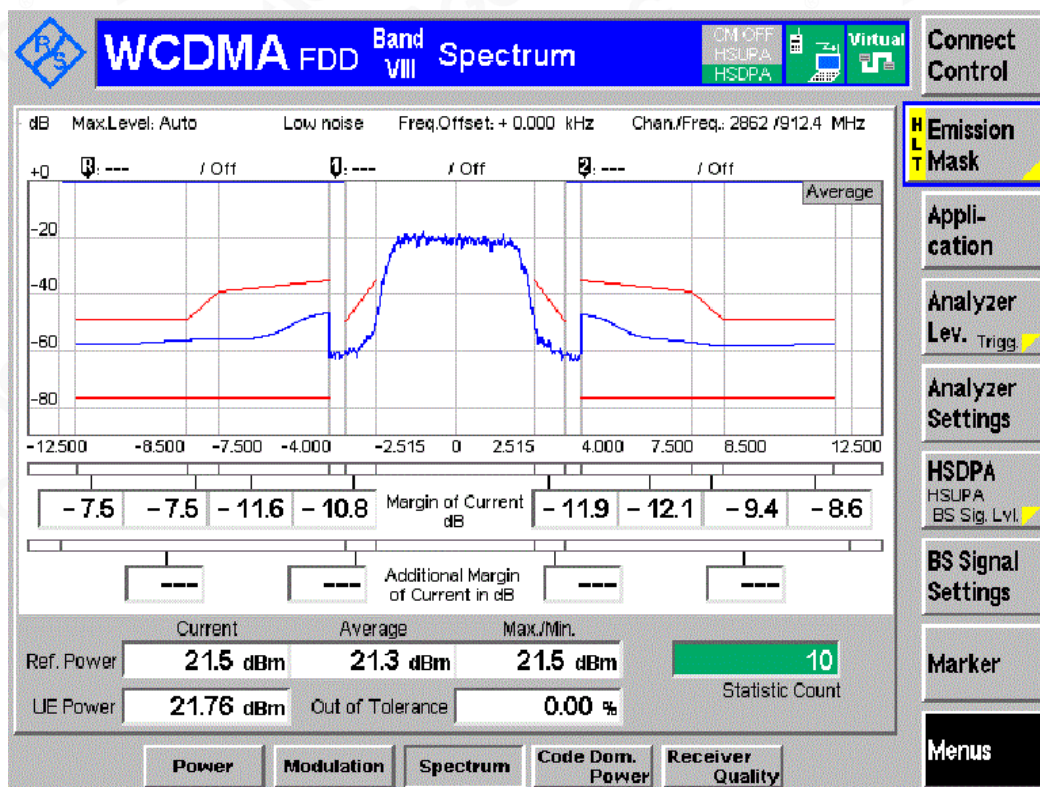




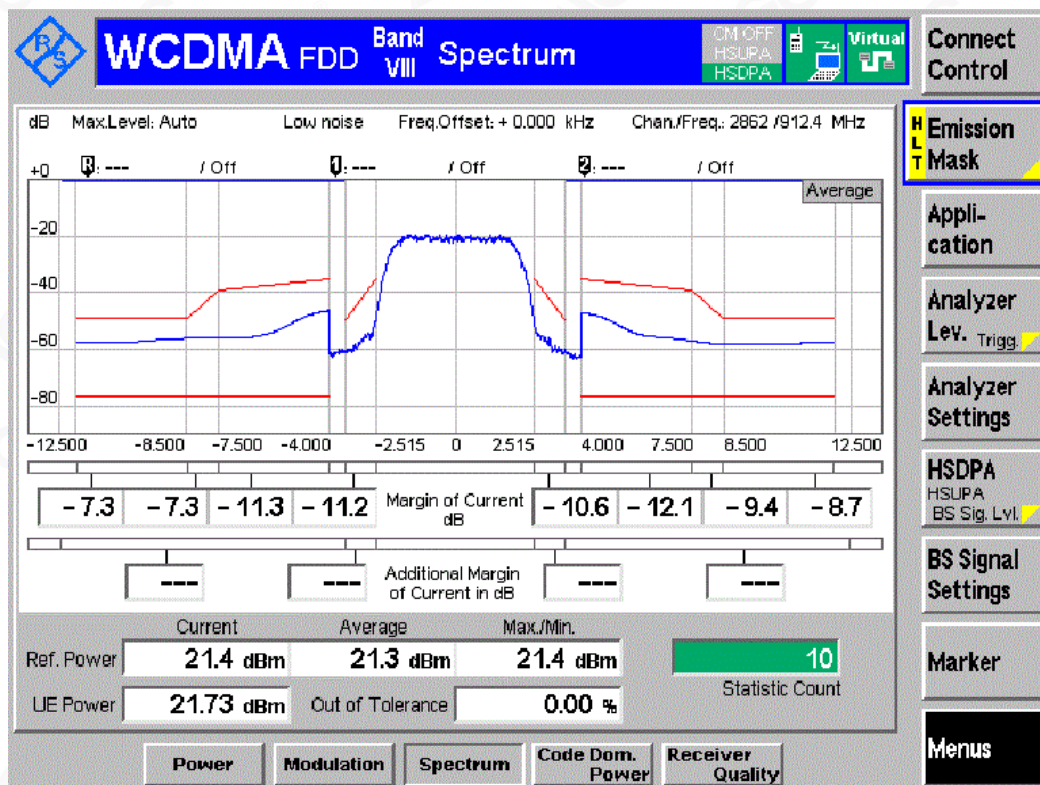
### Sub-test 2



### Sub-test 3



Sub-test 4





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

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I&BAND VIII TNVN ) of fellow:

Operating Band	Test Conditions	Test Channel	Sub-test	UE Channel	Measurement Data(dBm)	Limit (dBm)	Result
Band I	TNVN	LCH	1	+5MHz	-44.73	-32.2	Pass
				-5 MHz	-44.21	-32.2	Pass
				-10MHz	-53.32	-42.2	Pass
				+10MHz	-53.23	-42.2	Pass
			2	+5MHz	-44.93	-32.2	Pass
				-5 MHz	-44.48	-32.2	Pass
				-10MHz	-52.99	-42.2	Pass
				+10MHz	-53.01	-42.2	Pass
			3	+5MHz	-44.97	-32.2	Pass
				-5 MHz	-44.30	-32.2	Pass
				-10MHz	-53.05	-42.2	Pass
				+10MHz	-52.94	-42.2	Pass
			4	+5MHz	-44.98	-32.2	Pass
				-5 MHz	-44.32	-32.2	Pass
				-10MHz	-52.97	-42.2	Pass
				+10MHz	-53.02	-42.2	Pass
		MCH	1	+5MHz	-44.12	-32.2	Pass
				-5 MHz	-44.04	-32.2	Pass
				-10MHz	-53.22	-42.2	Pass
				+10MHz	-53.11	-42.2	Pass
			2	+5MHz	-44.19	-32.2	Pass
				-5 MHz	-44.46	-32.2	Pass
				-10MHz	-52.89	-42.2	Pass
				+10MHz	-52.28	-42.2	Pass
			3	+5MHz	-44.08	-32.2	Pass
				-5 MHz	-44.31	-32.2	Pass
				-10MHz	-53.00	-42.2	Pass
				+10MHz	-52.40	-42.2	Pass
			4	+5MHz	-44.17	-32.2	Pass
				-5 MHz	-44.36	-32.2	Pass
				-10MHz	-52.78	-42.2	Pass
				+10MHz	-52.13	-42.2	Pass





		HCH	1	+5MHz	-42.44	-32.2	Pass
				-5 MHz	-42.01	-32.2	Pass
				-10MHz	-52.70	-42.2	Pass
				+10MHz	-52.78	-42.2	Pass
			2	+5MHz	-42.52	-32.2	Pass
				-5 MHz	-42.34	-32.2	Pass
				-10MHz	-52.64	-42.2	Pass
				+10MHz	-52.50	-42.2	Pass
			3	+5MHz	-42.71	-32.2	Pass
				-5 MHz	-42.10	-32.2	Pass
				-10MHz	-52.64	-42.2	Pass
				+10MHz	-52.68	-42.2	Pass
			4	+5MHz	-42.86	-32.2	Pass
				-5 MHz	-42.36	-32.2	Pass
				-10MHz	-52.67	-42.2	Pass
				+10MHz	-52.66	-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	-45.22	-32.2	Pass
				-5 MHz	-48.56	-32.2	Pass
				-10MHz	-53.06	-42.2	Pass
				+10MHz	-52.67	-42.2	Pass
			2	+5MHz	-44.50	-32.2	Pass
				-5 MHz	-47.65	-32.2	Pass
				-10MHz	-52.60	-42.2	Pass
				+10MHz	-52.06	-42.2	Pass
			3	+5MHz	-44.12	-32.2	Pass
				-5 MHz	-47.10	-32.2	Pass
				-10MHz	-52.71	-42.2	Pass
				+10MHz	-51.95	-42.2	Pass
			4	+5MHz	-43.87	-32.2	Pass
				-5 MHz	-46.90	-32.2	Pass
				-10MHz	-52.60	-42.2	Pass
				+10MHz	-51.93	-42.2	Pass
		MCH	1	+5MHz	-44.96	-32.2	Pass
				-5 MHz	-45.88	-32.2	Pass



				-10MHz	-52.58	-42.2	Pass
				+10MHz	-52.48	-42.2	Pass
			2	+5MHz	-44.20	-32.2	Pass
				-5 MHz	-44.76	-32.2	Pass
				-10MHz	-52.01	-42.2	Pass
				+10MHz	-52.04	-42.2	Pass
			3	+5MHz	-43.61	-32.2	Pass
				-5 MHz	-44.06	-32.2	Pass
				-10MHz	-51.87	-42.2	Pass
				+10MHz	-51.88	-42.2	Pass
			4	+5MHz	-43.43	-32.2	Pass
				-5 MHz	-43.93	-32.2	Pass
				-10MHz	-51.89	-42.2	Pass
				+10MHz	-51.94	-42.2	Pass
		HCH	1	+5MHz	-45.13	-32.2	Pass
				-5 MHz	-44.67	-32.2	Pass
				-10MHz	-52.56	-42.2	Pass
				+10MHz	-53.35	-42.2	Pass
			2	+5MHz	-44.62	-32.2	Pass
				-5 MHz	-43.96	-32.2	Pass
				-10MHz	-52.09	-42.2	Pass
				+10MHz	-52.79	-42.2	Pass
			3	+5MHz	-43.98	-32.2	Pass
				-5 MHz	-43.14	-32.2	Pass
				-10MHz	-51.76	-42.2	Pass
				+10MHz	-52.78	-42.2	Pass
			4	+5MHz	-43.96	-32.2	Pass
				-5 MHz	-43.19	-32.2	Pass
				-10MHz	-51.80	-42.2	Pass
				+10MHz	-52.81	-42.2	Pass

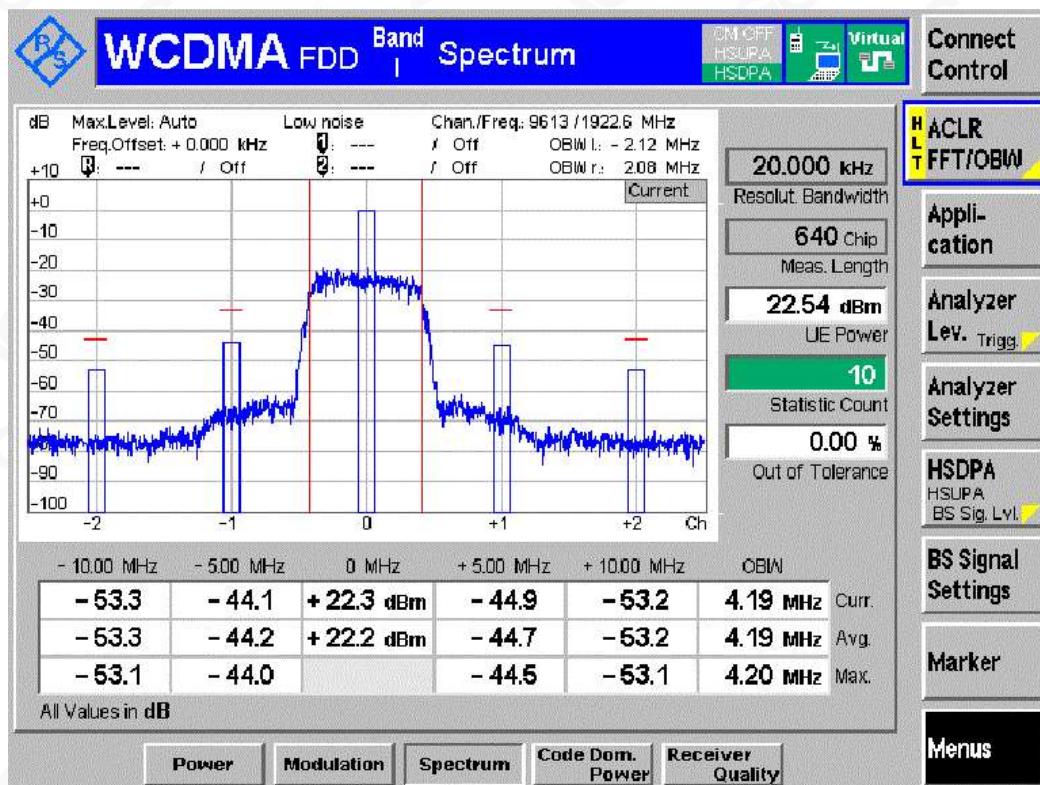
**BAND I**

**TNVN**

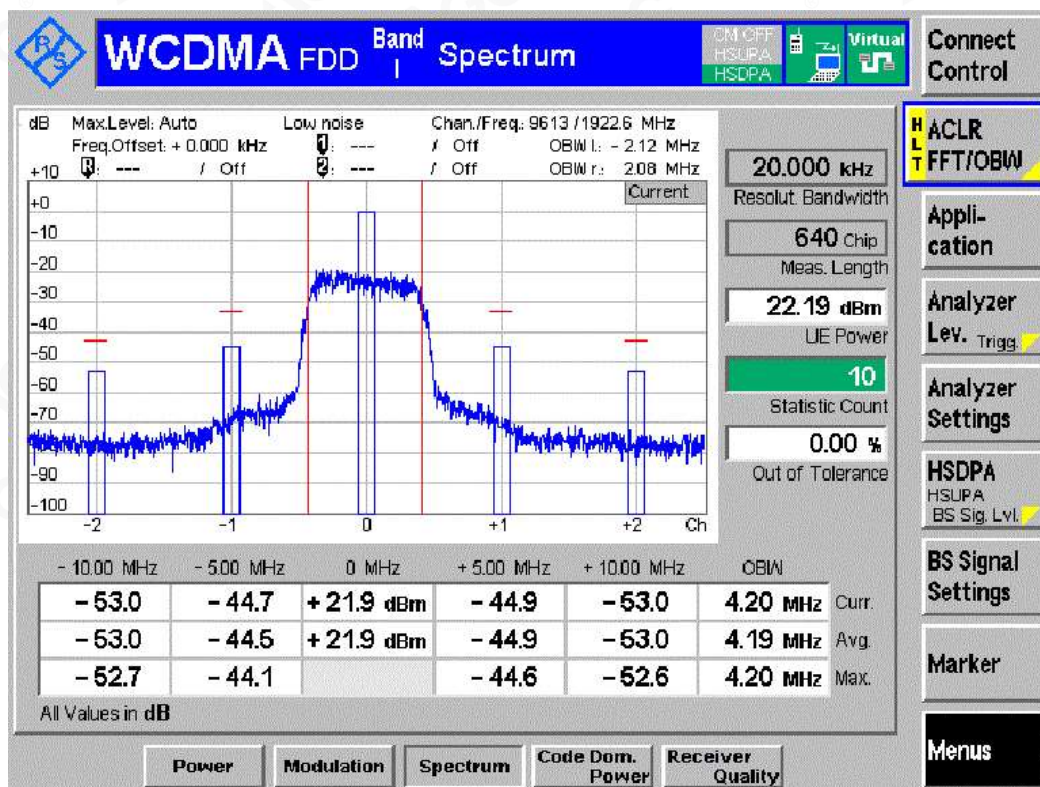
Channel LCH



### Sub-test 1

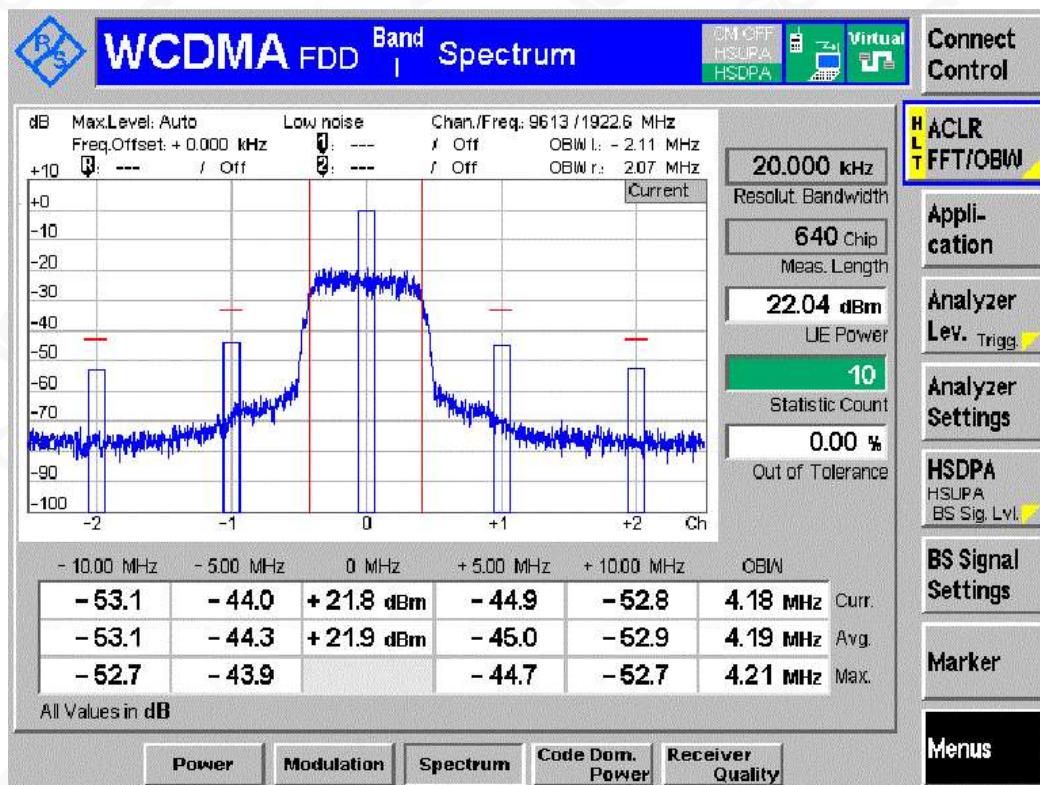


### Sub-test 2

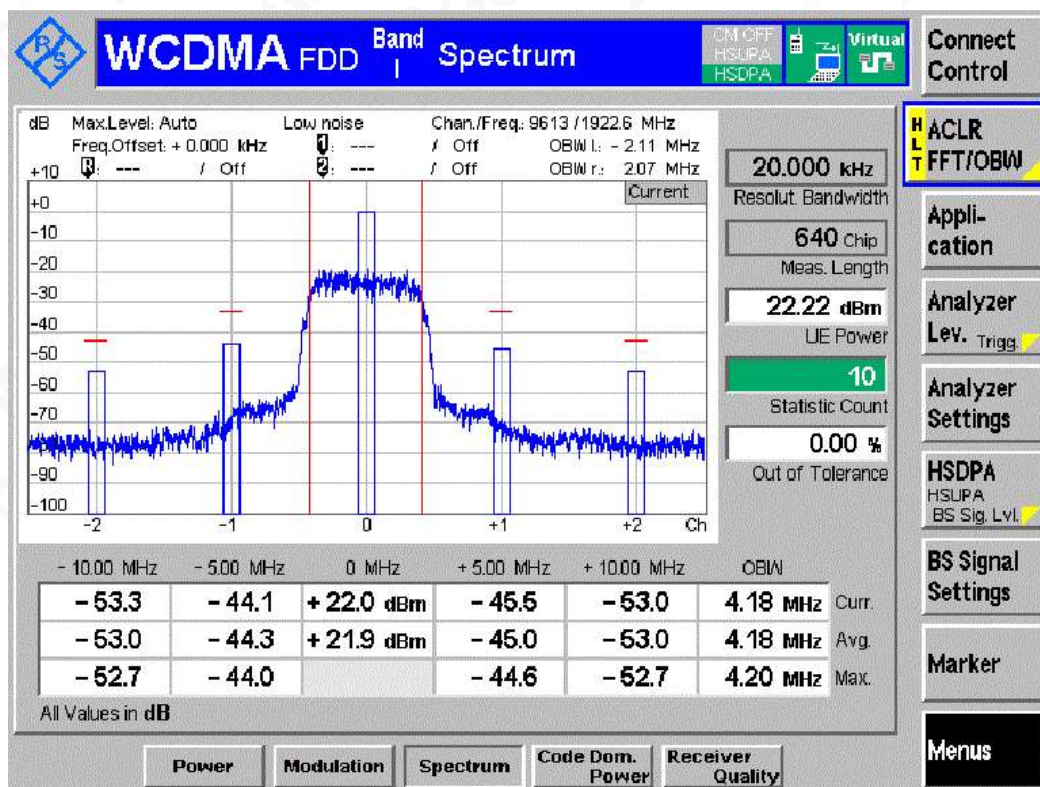




### Sub-test 3



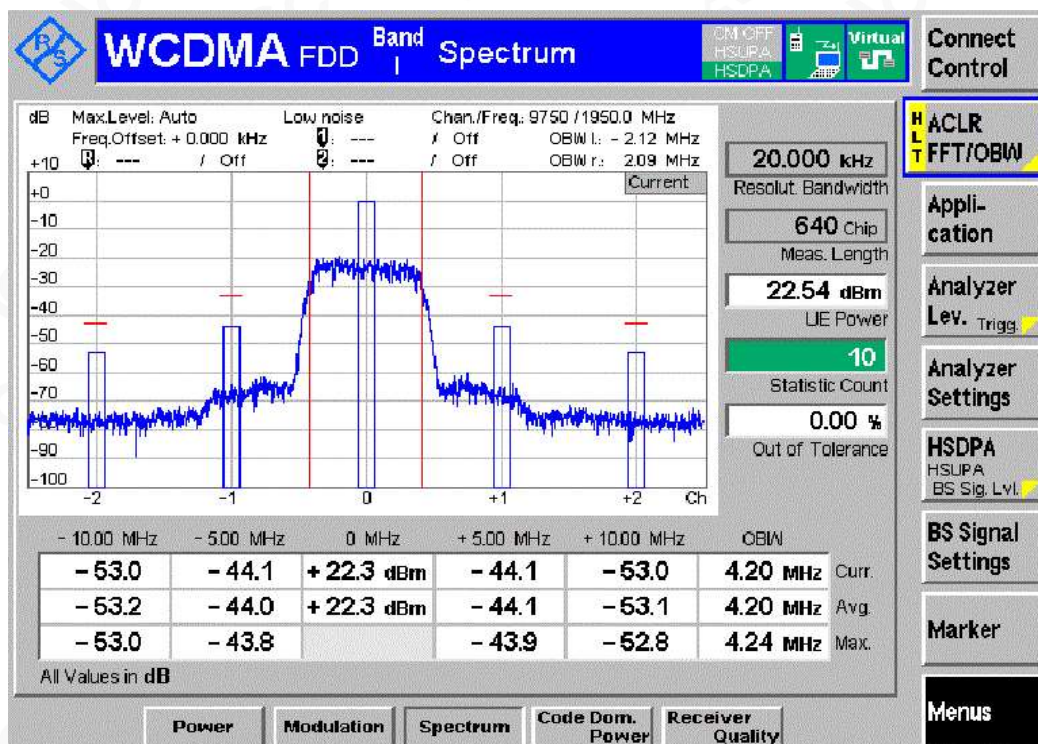
### Sub-test 4



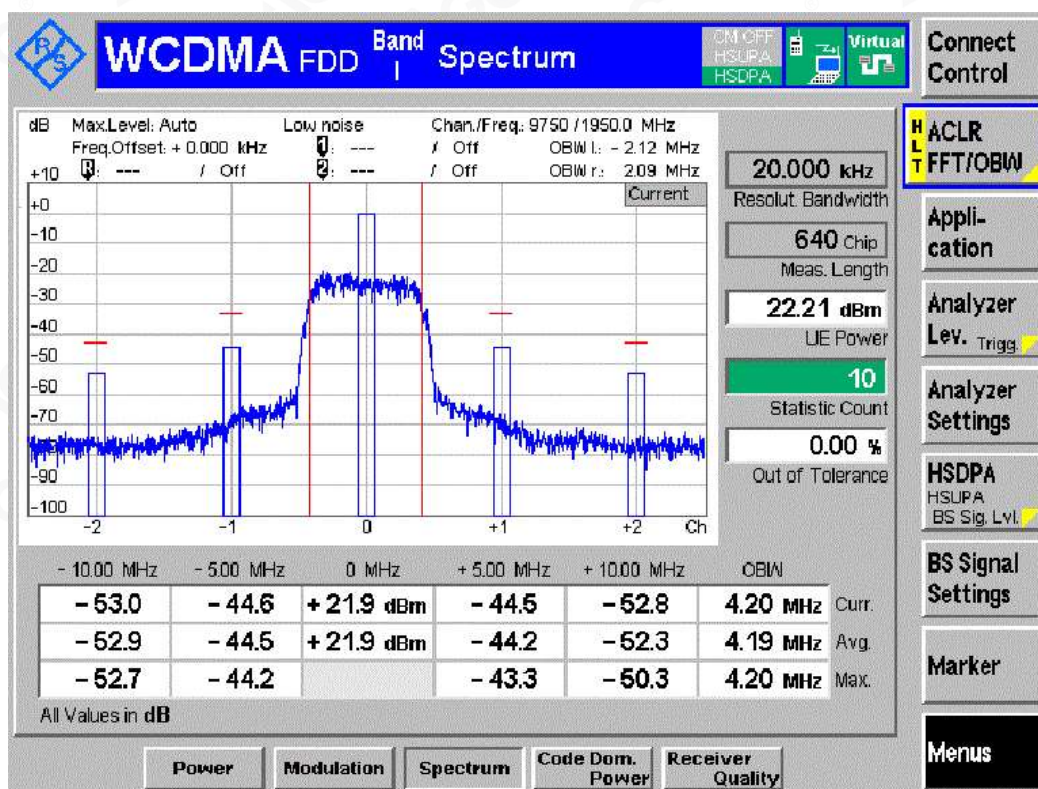


Channel MCH

Sub-test 1

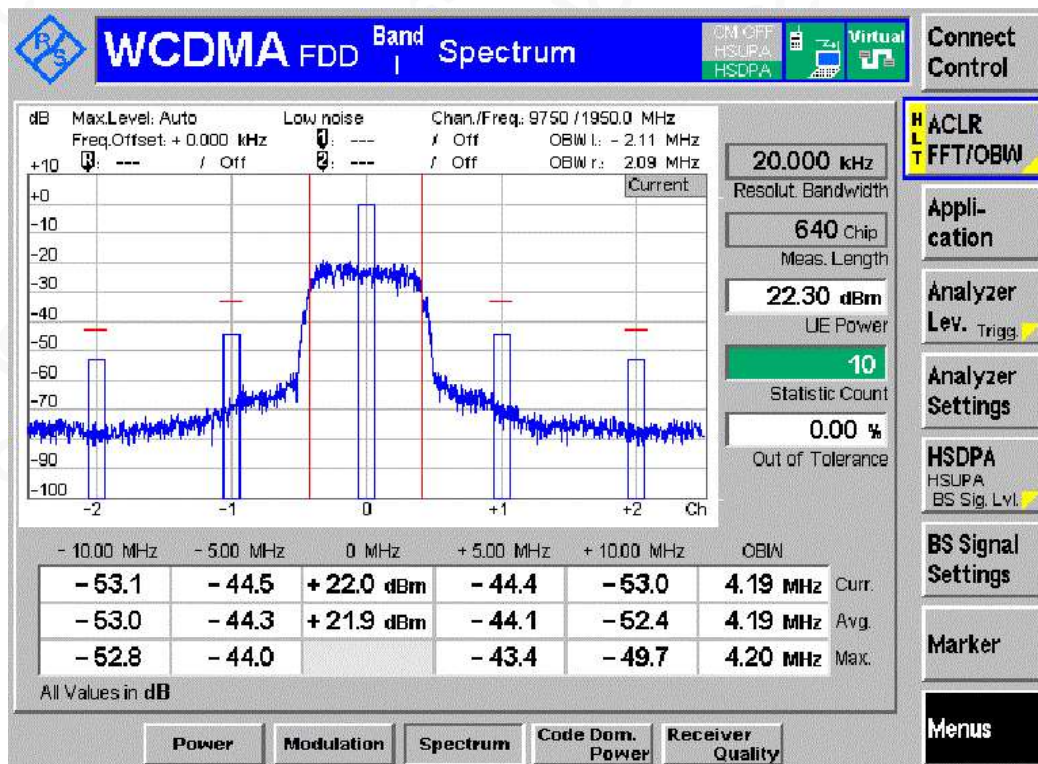


Sub-test 2

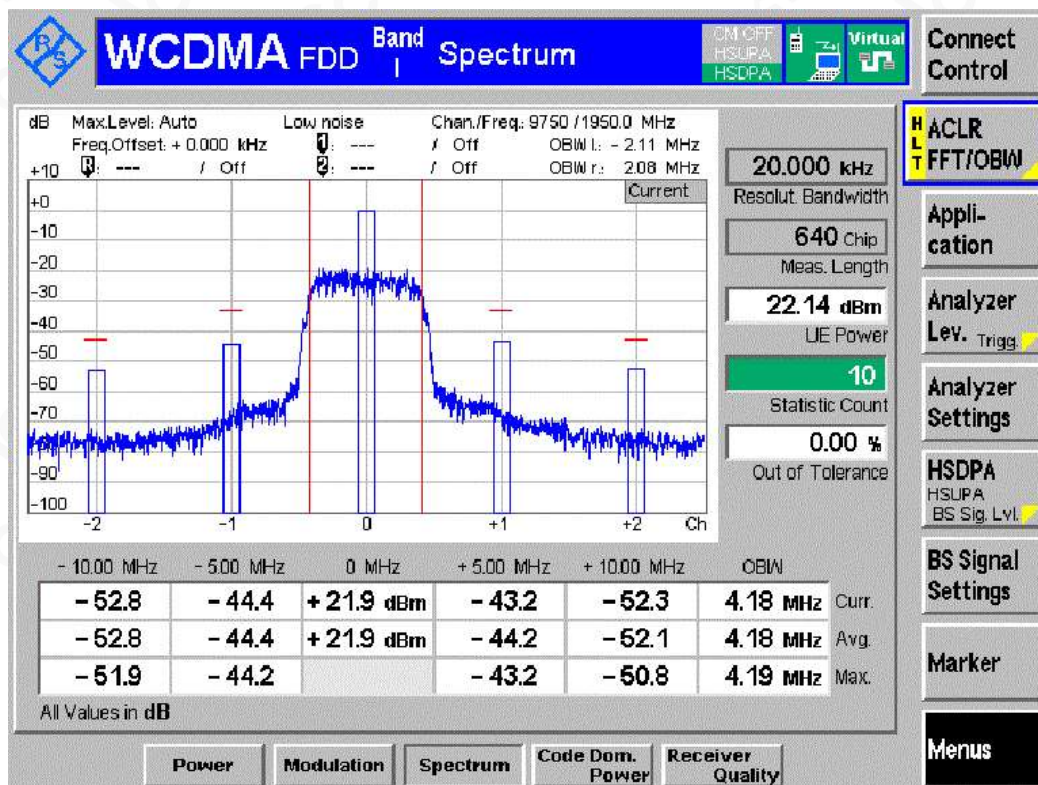




### Sub-test 3



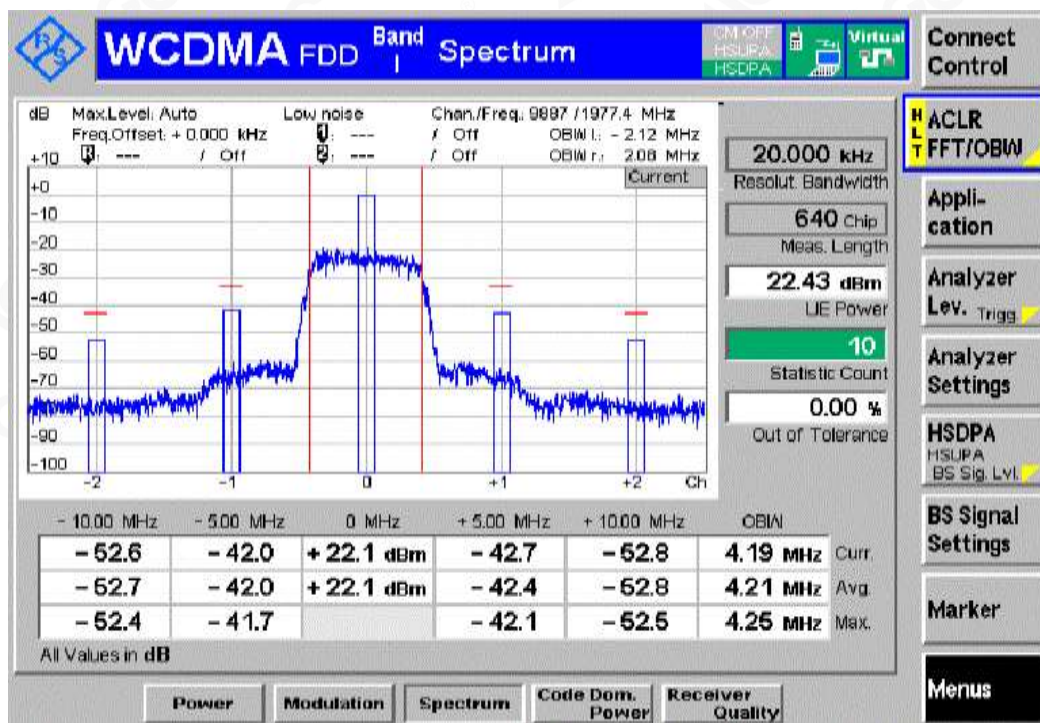
### Sub-test 4



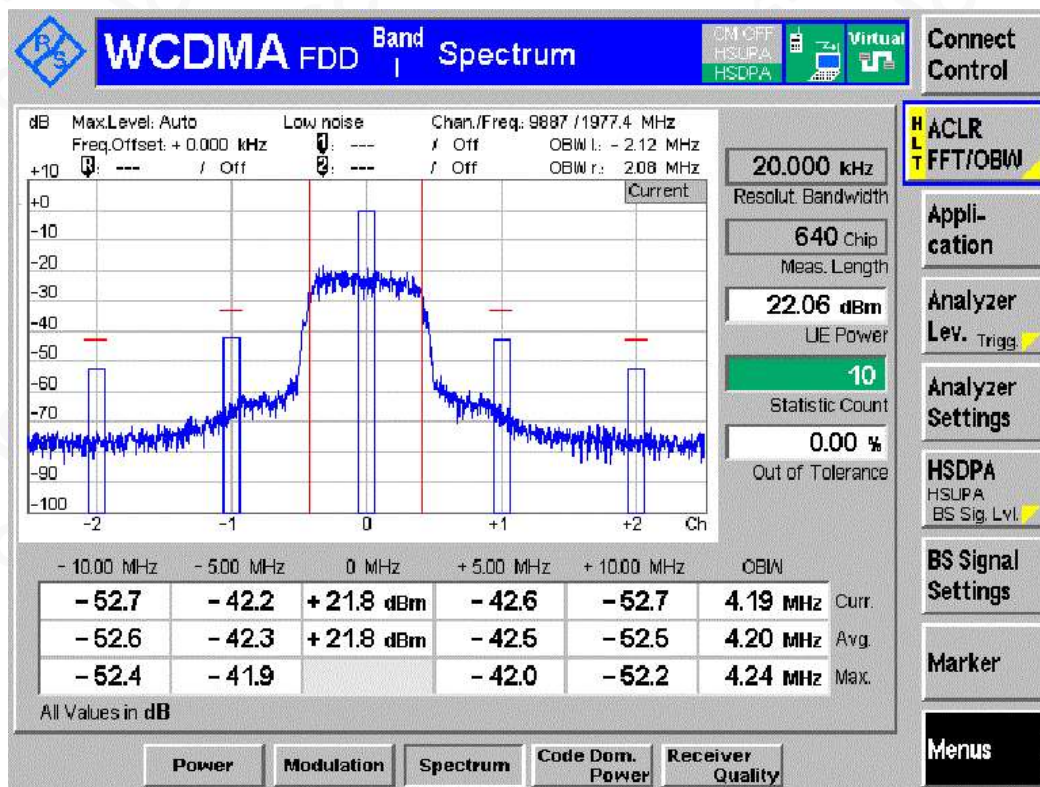


Channel HCH

Sub-test 1



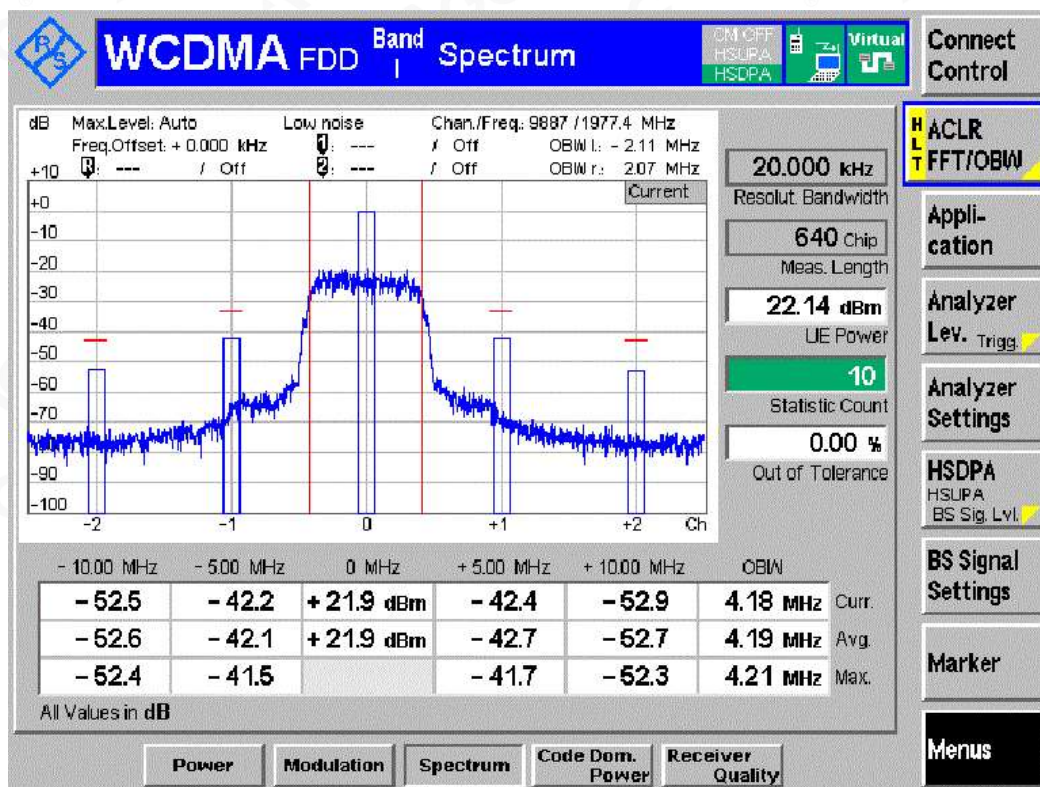
Sub-test 2



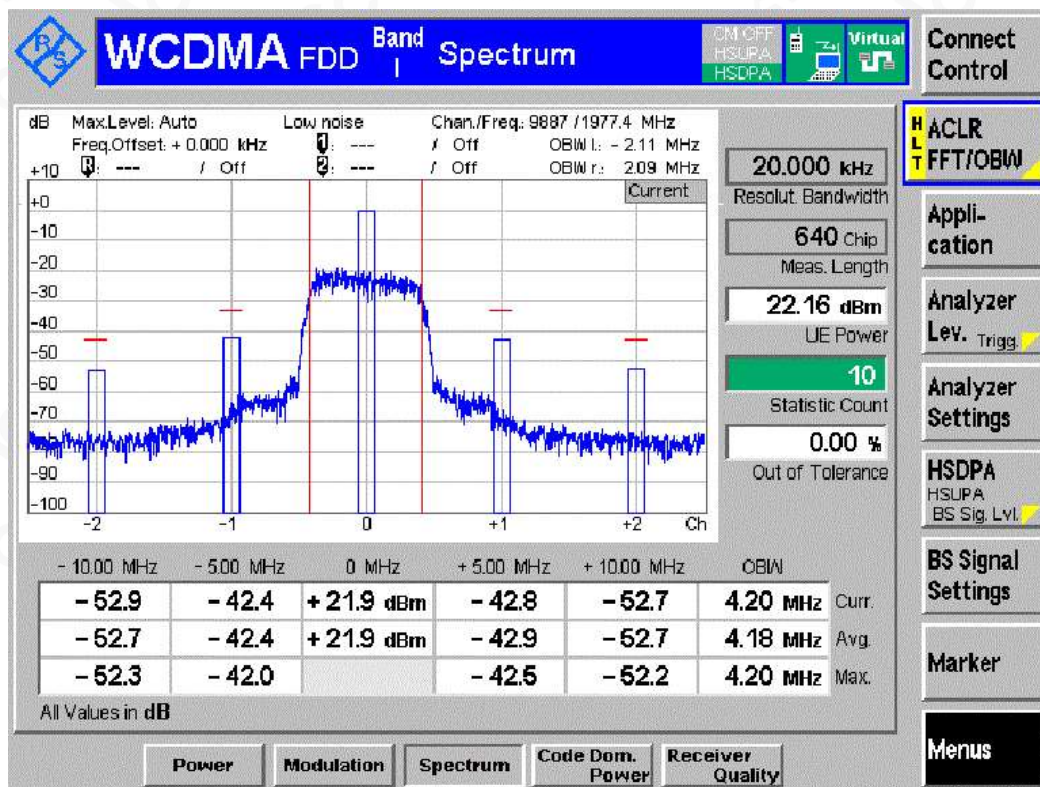
Sub-test 3







Sub-test 4

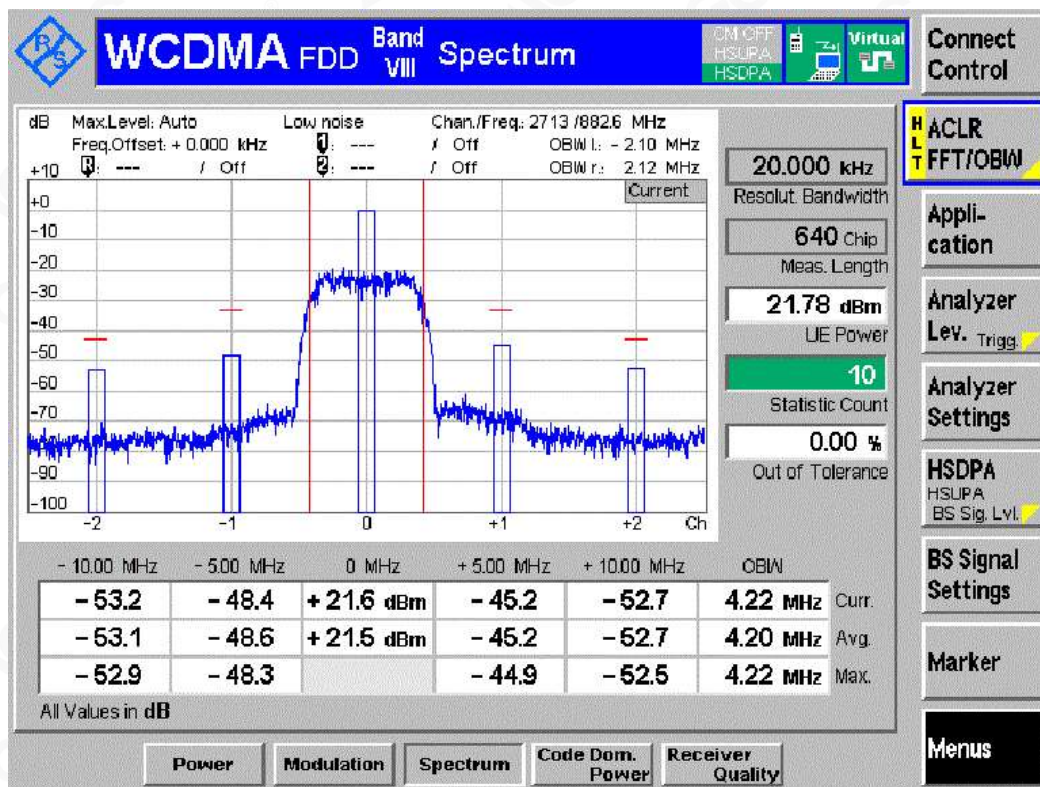


# BAND VIII

## TNVN

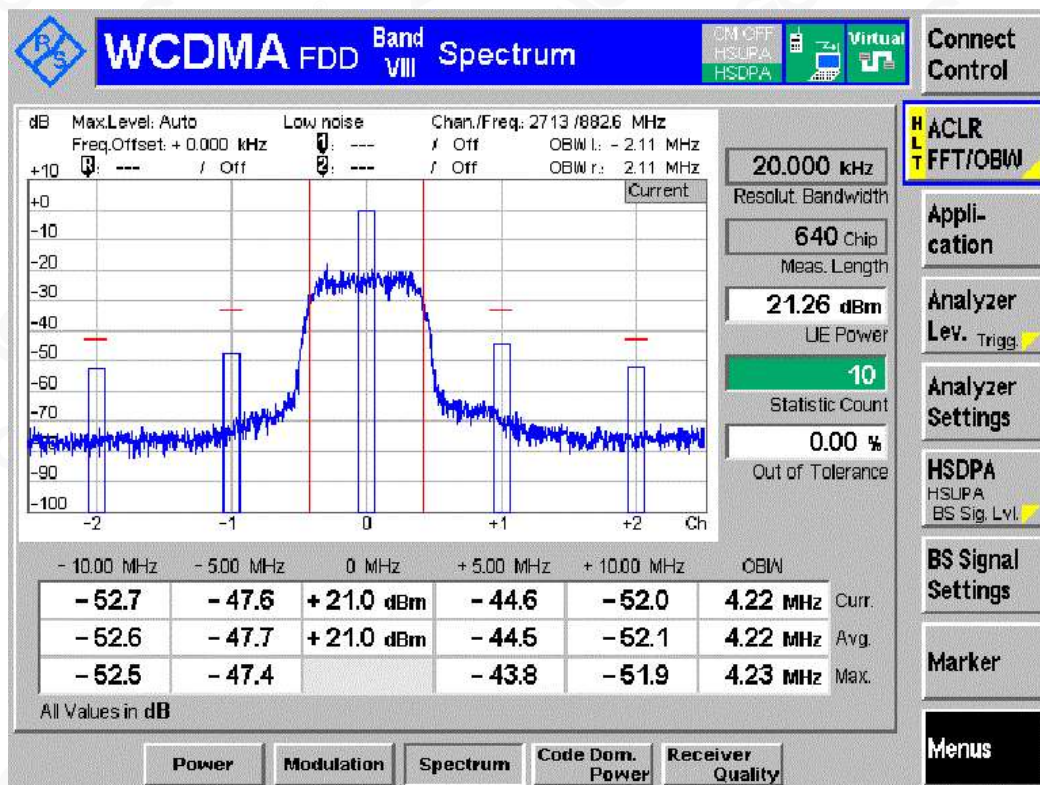
Channel LCH

Sub-test 1

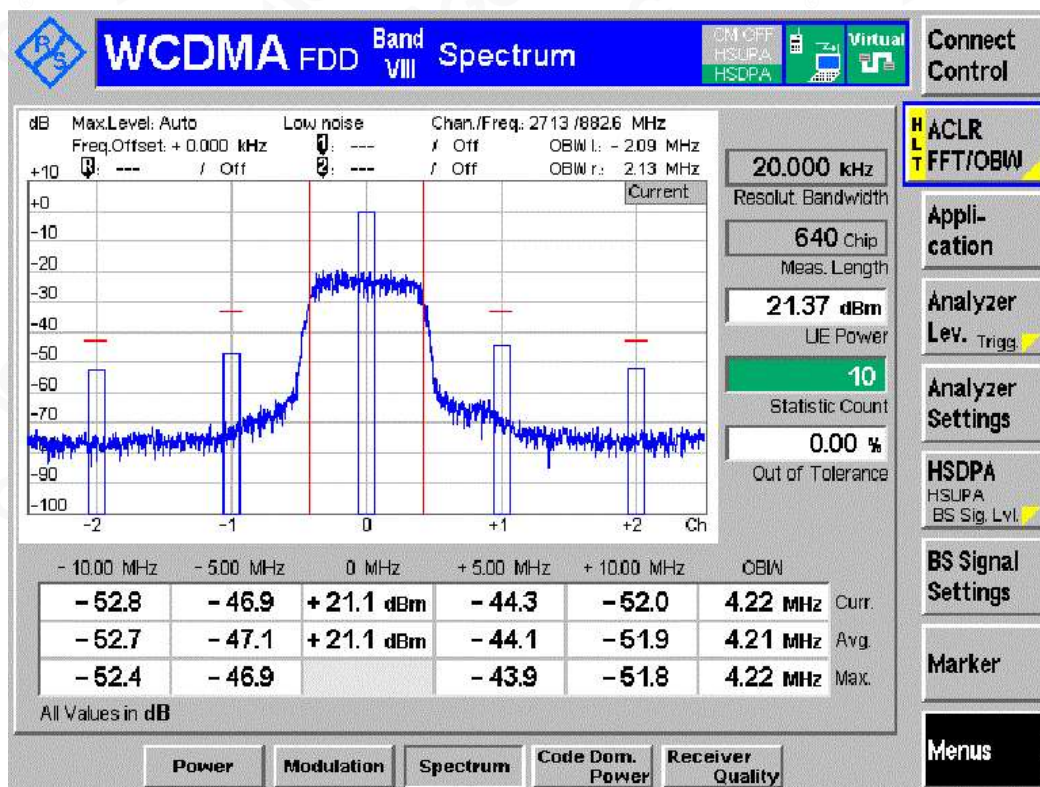




### Sub-test 2

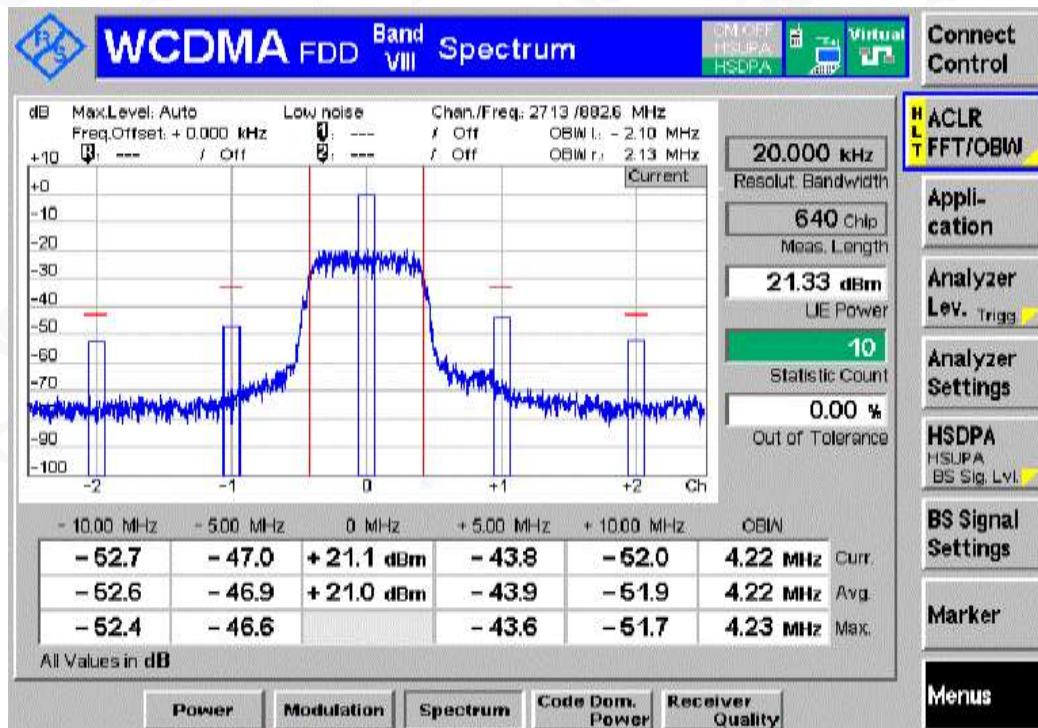


### Sub-test 3



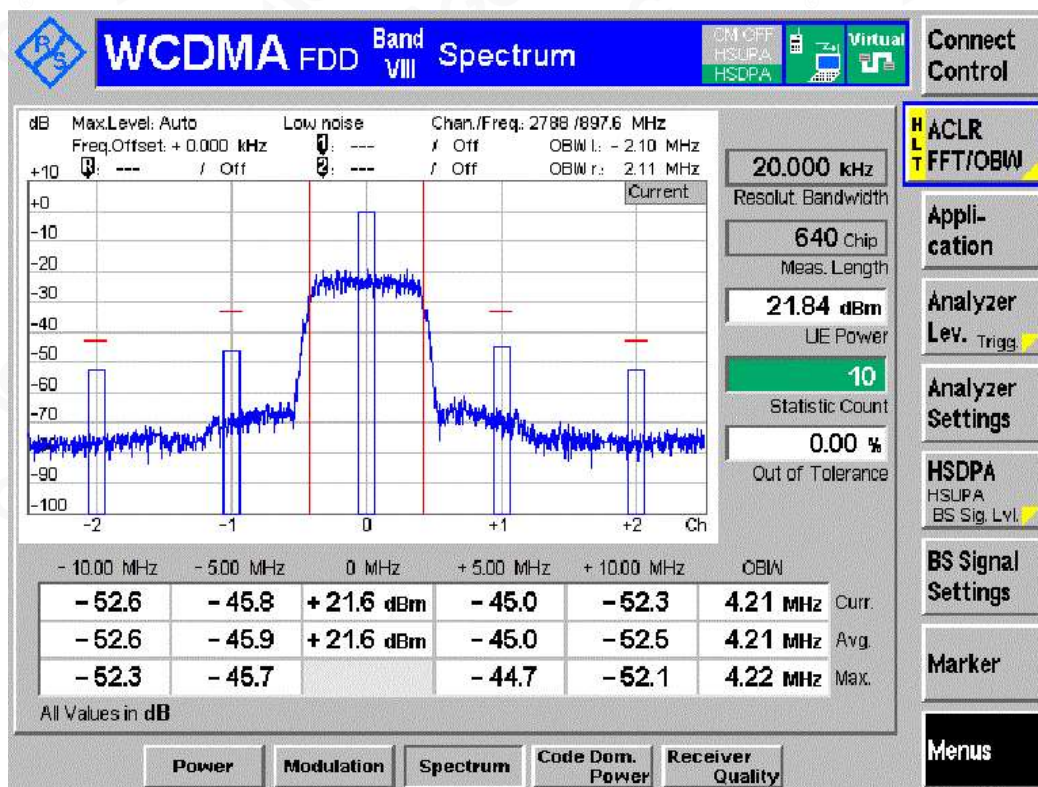


#### Sub-test 4



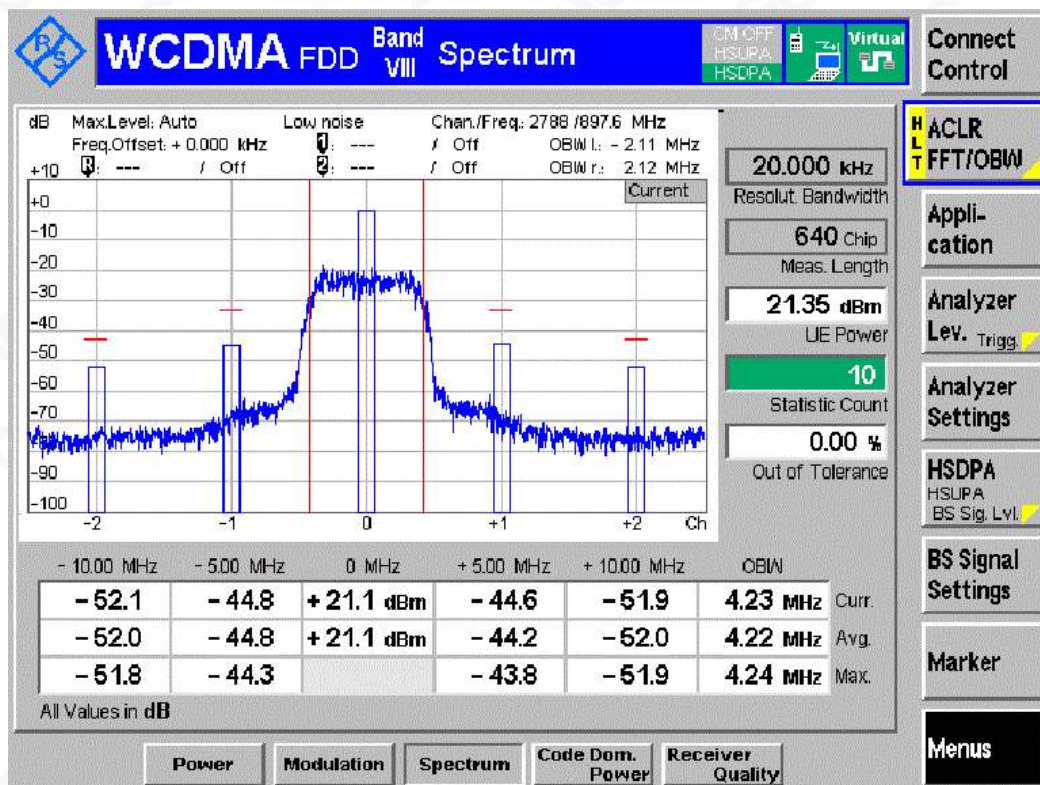
#### Channel MCH

#### Sub-test 1

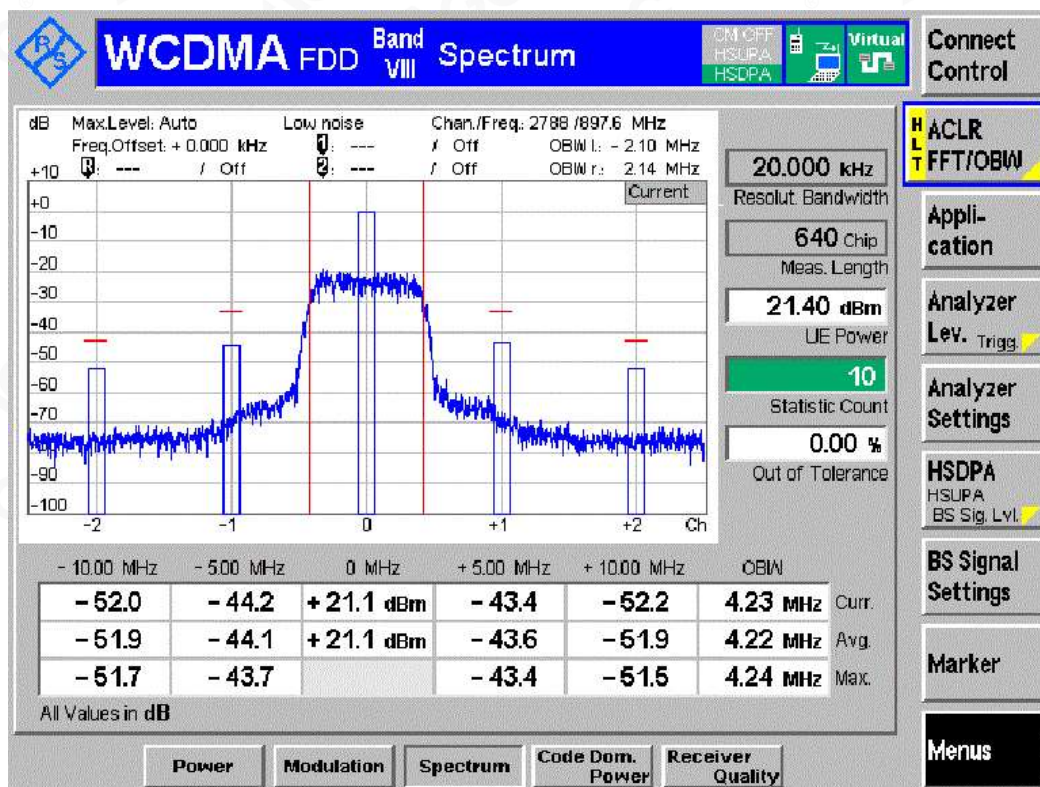




### Sub-test 2

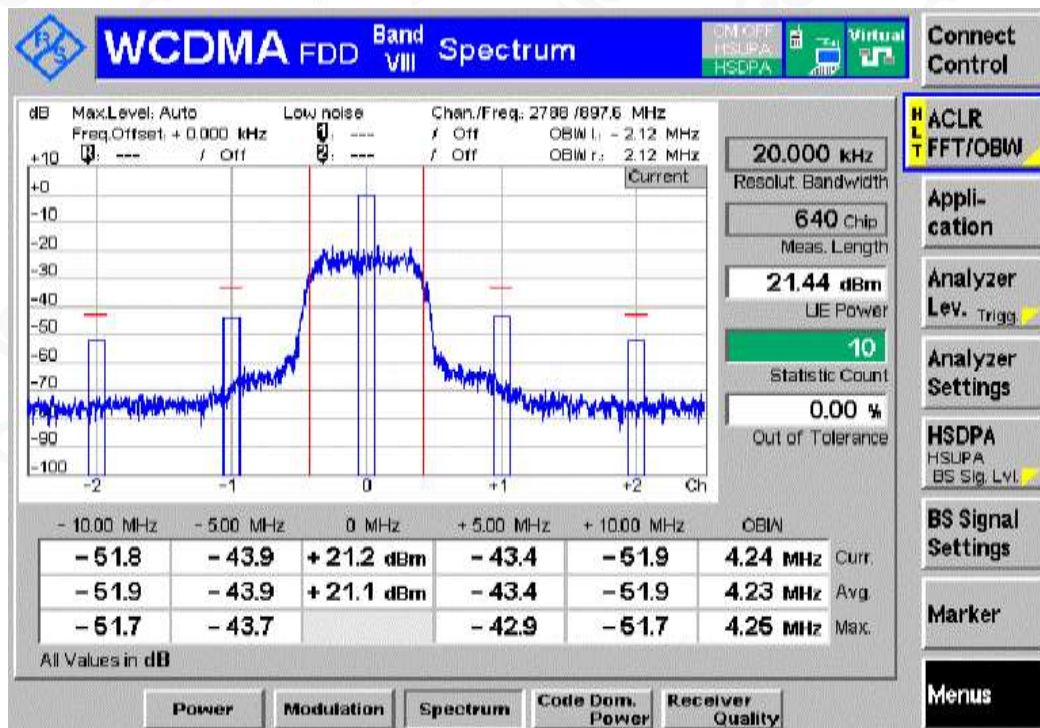


### Sub-test 3



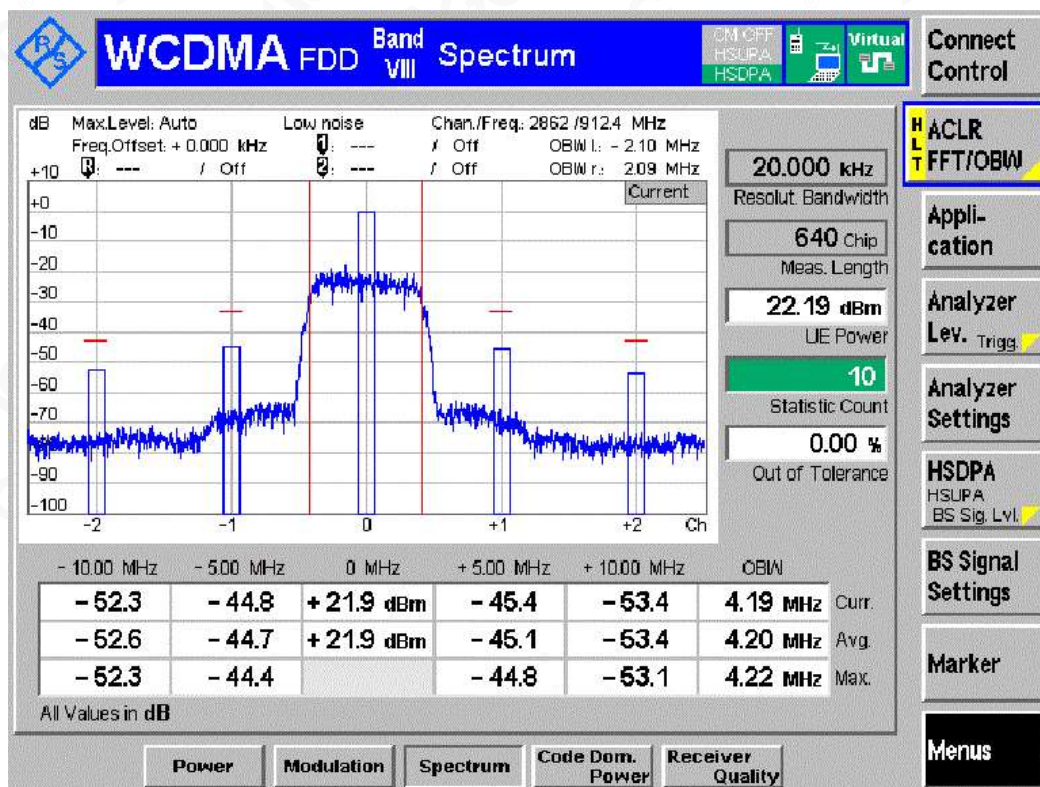


#### Sub-test 4



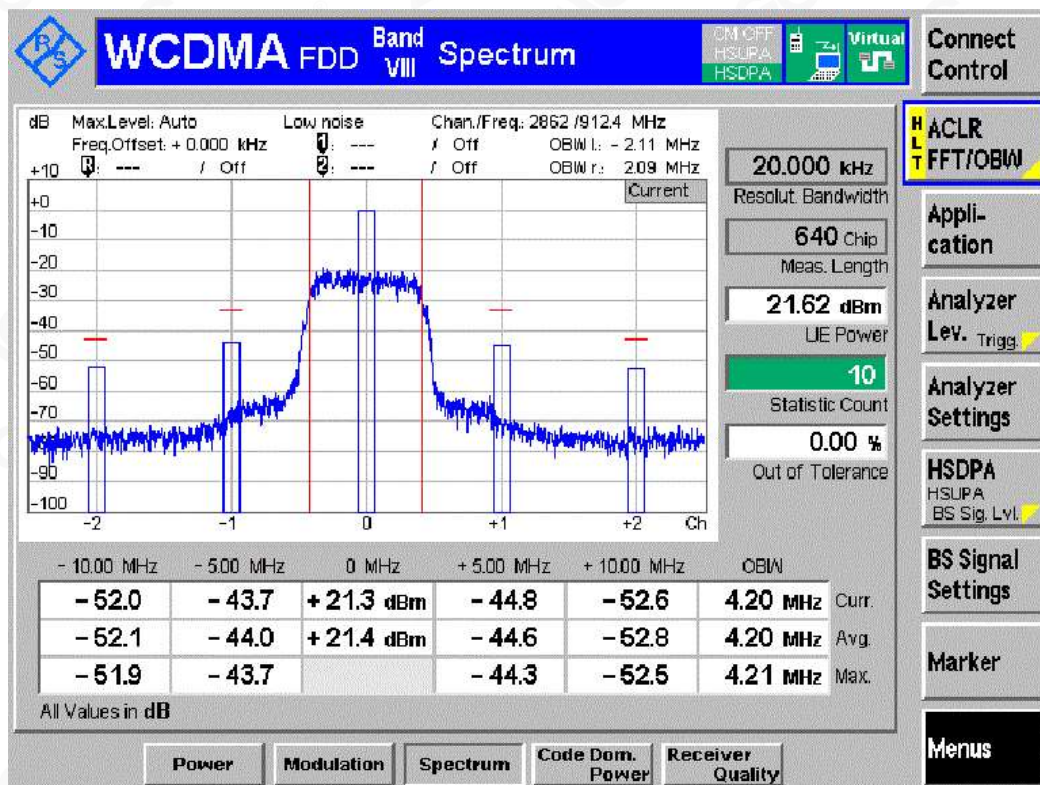
#### Channel HCH

#### Sub-test 1

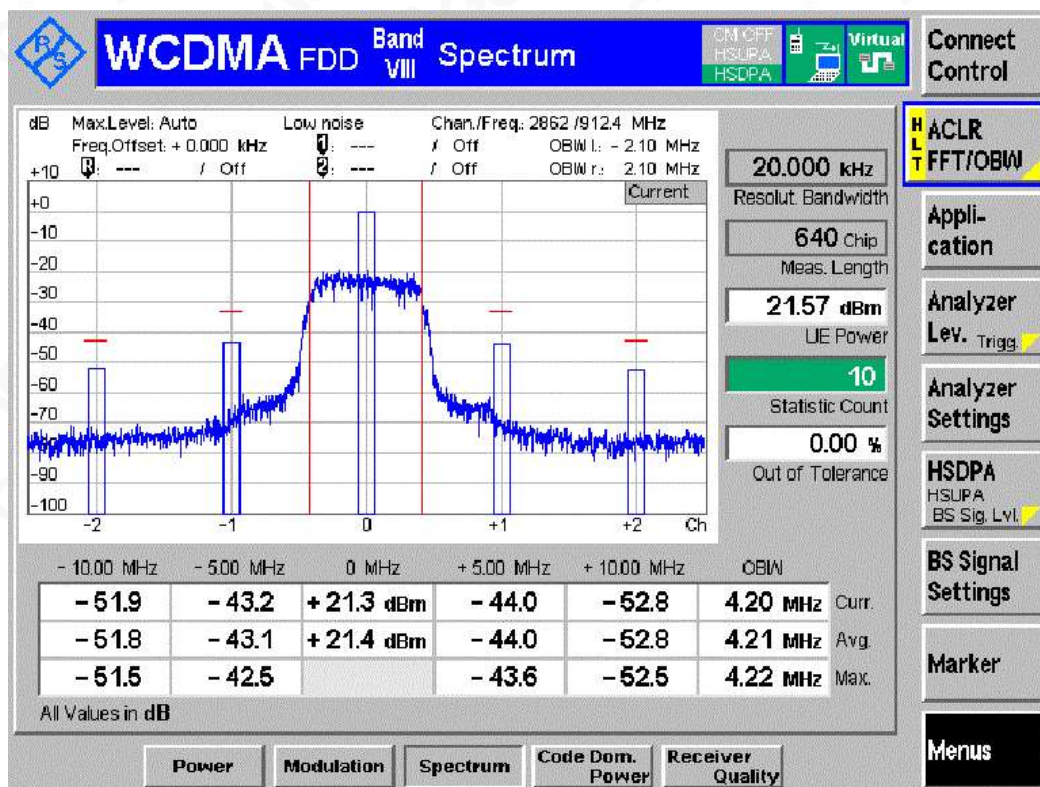




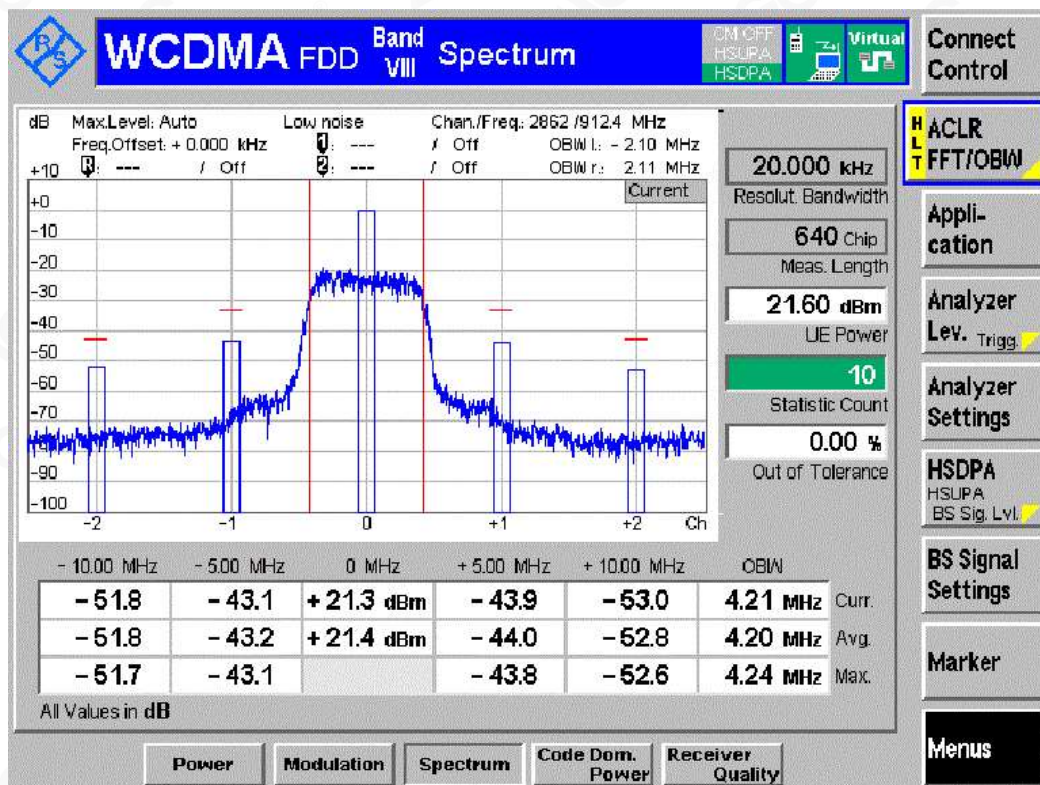
### Sub-test 2



### Sub-test 3



Sub-test 4





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

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I&BAND VIII TNVN) of follow:

Operating Band	Test Conditions	Test Channel	Sub-test	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	1	20.33	+24(+1.7/-6.7)	Pass
			2	20.42	+22(+3.7/-5.2)	Pass
			3	21.37	+23(+2.7/-5.2)	Pass
			4	19.90	+22(+3.7/-5.2)	Pass
			5	20.79	+24(+1.7/-3.7)	Pass
		MCH	1	20.37	+24(+1.7/-6.7)	Pass
			2	20.50	+22(+3.7/-5.2)	Pass
			3	21.40	+23(+2.7/-5.2)	Pass
			4	19.79	+22(+3.7/-5.2)	Pass
			5	20.34	+24(+1.7/-3.7)	Pass
		HCH	1	20.25	+24(+1.7/-6.7)	Pass
			2	20.39	+22(+3.7/-5.2)	Pass
			3	21.29	+23(+2.7/-5.2)	Pass
			4	19.68	+22(+3.7/-5.2)	Pass
			5	20.55	+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	19.75	+24(+1.7/-6.7)	Pass
			2	19.62	+22(+3.7/-5.2)	Pass
			3	20.60	+23(+2.7/-5.2)	Pass
			4	19.10	+22(+3.7/-5.2)	Pass
			5	21.03	+24(+1.7/-3.7)	Pass
		MCH	1	19.79	+24(+1.7/-6.7)	Pass
			2	19.69	+22(+3.7/-5.2)	Pass
			3	20.68	+23(+2.7/-5.2)	Pass
			4	19.29	+22(+3.7/-5.2)	Pass
			5	20.45	+24(+1.7/-3.7)	Pass
		HCH	1	20.01	+24(+1.7/-6.7)	Pass
			2	20.05	+22(+3.7/-5.2)	Pass
			3	21.04	+23(+2.7/-5.2)	Pass
			4	19.39	+22(+3.7/-5.2)	Pass
			5	20.55	+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

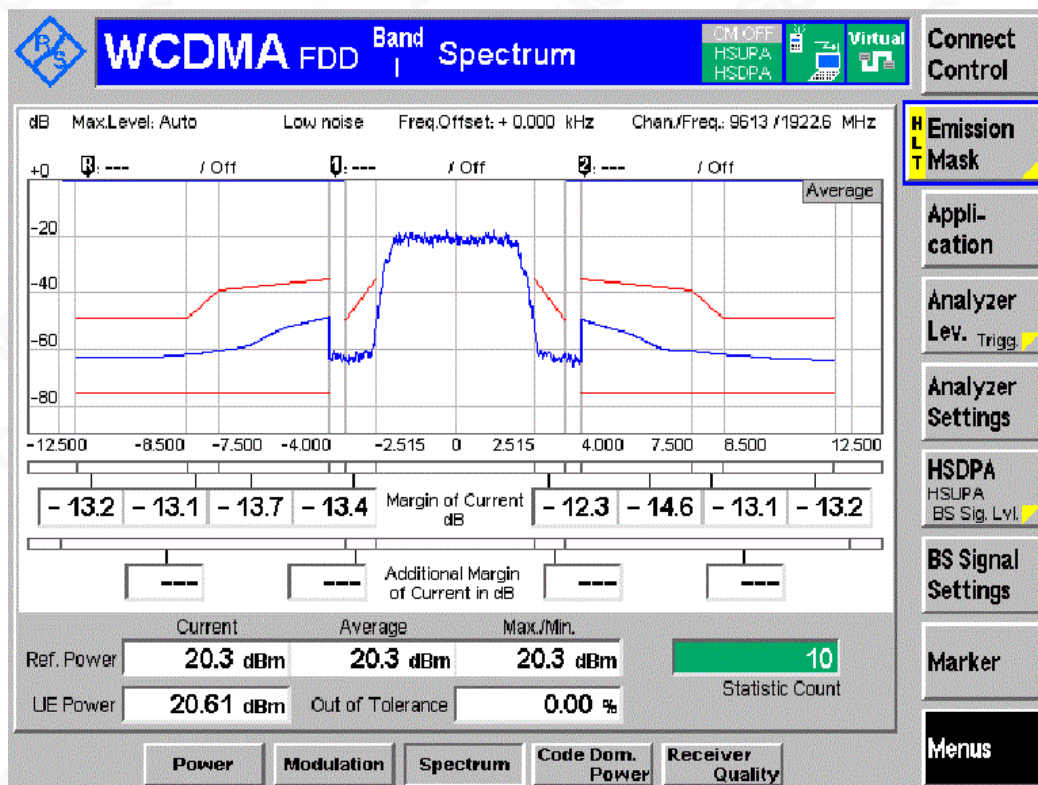
**BAND I**

**Channel LCH**

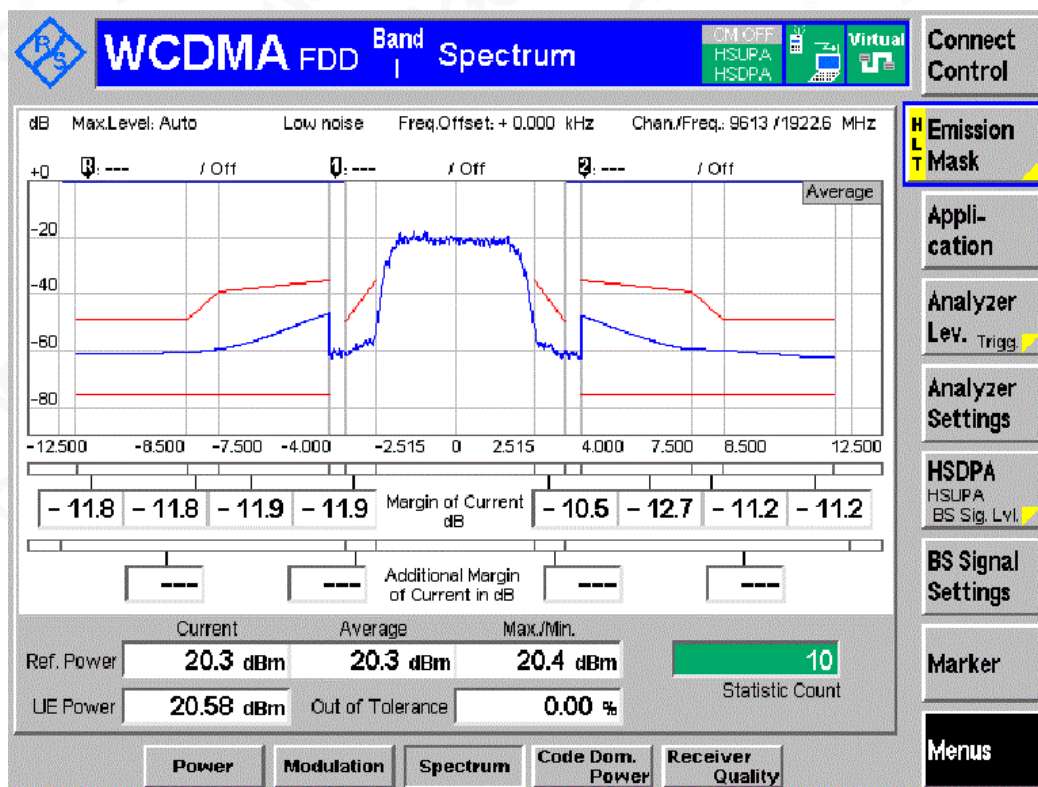




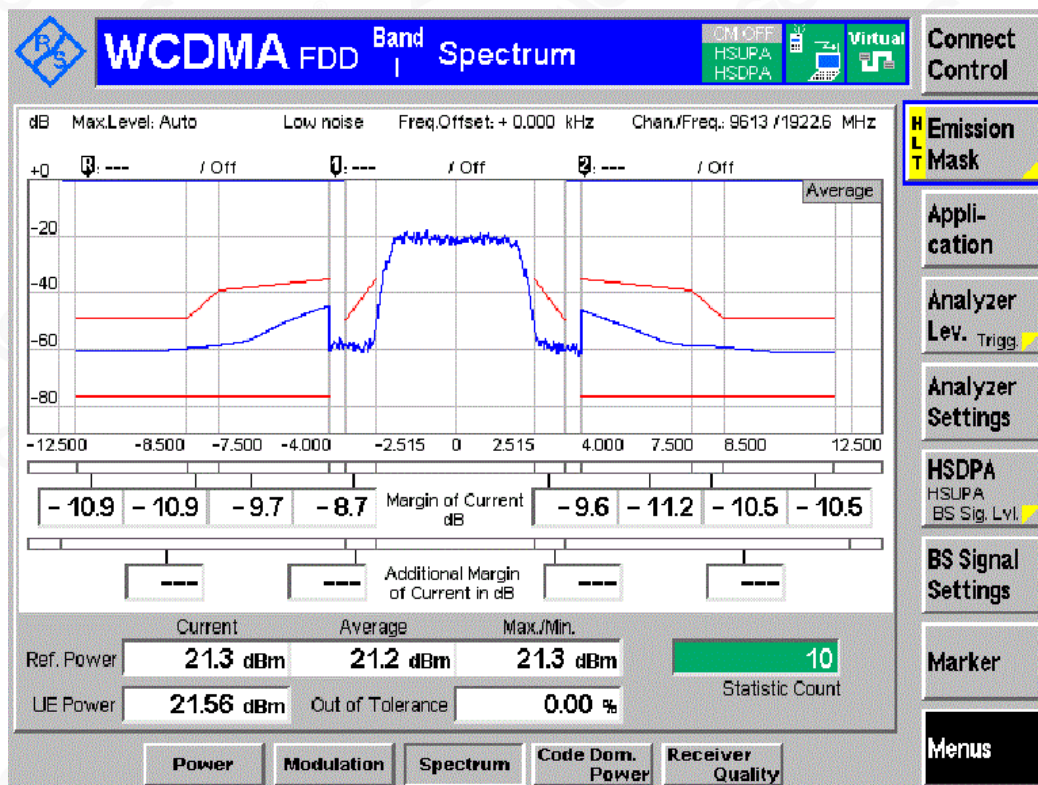
### Sub-test 1



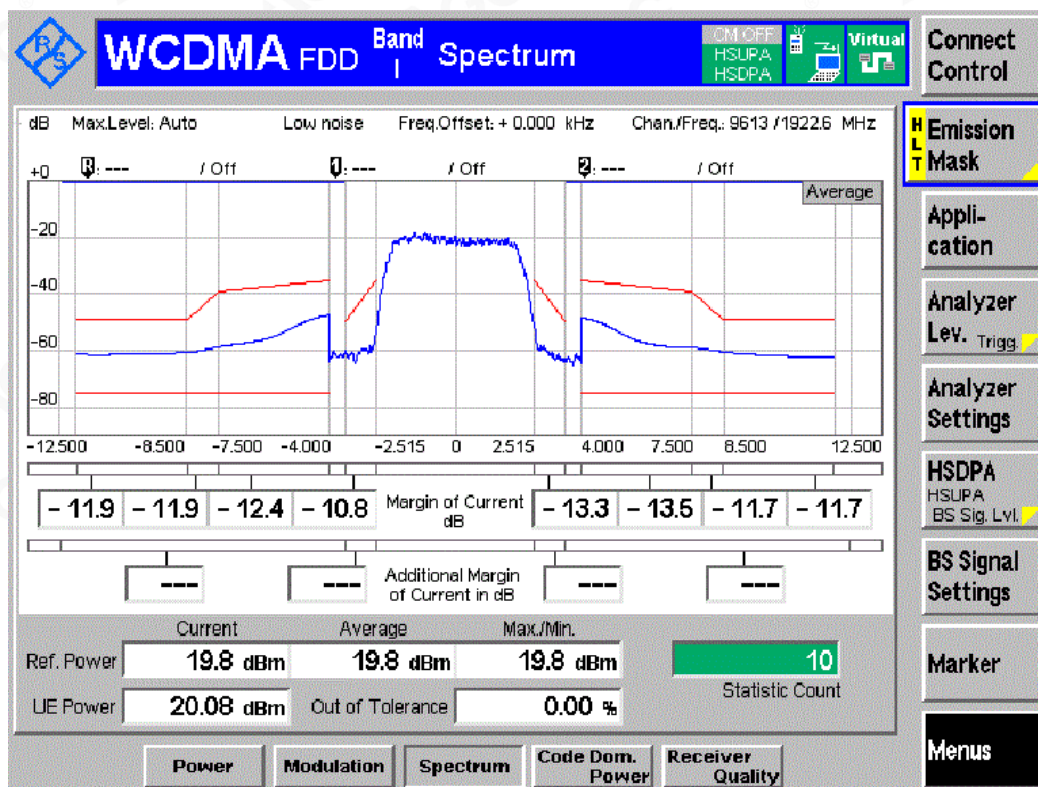
### Sub-test 2



### Sub-test 3

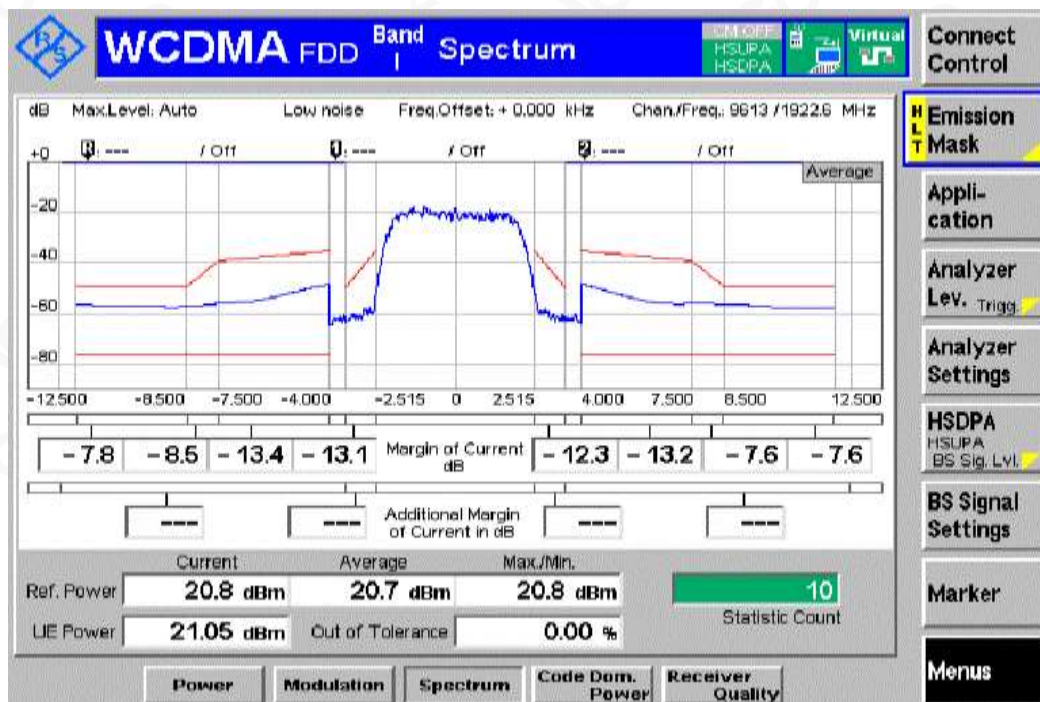


### Sub-test 4



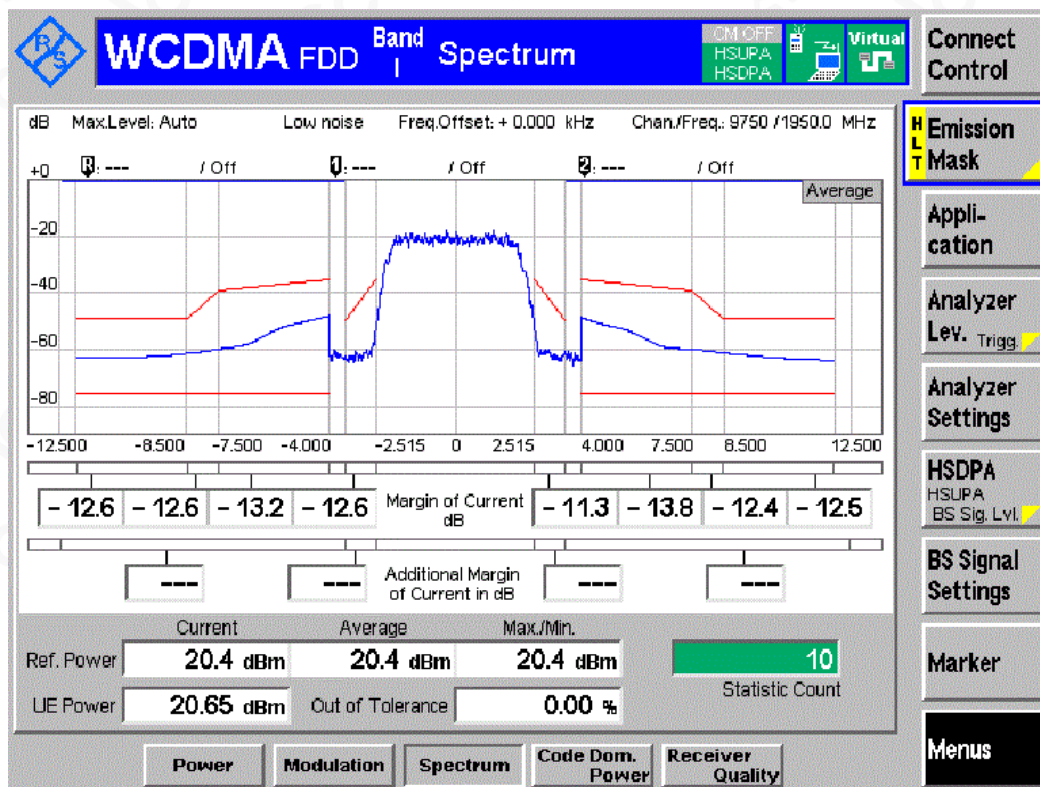


## Sub-test 5

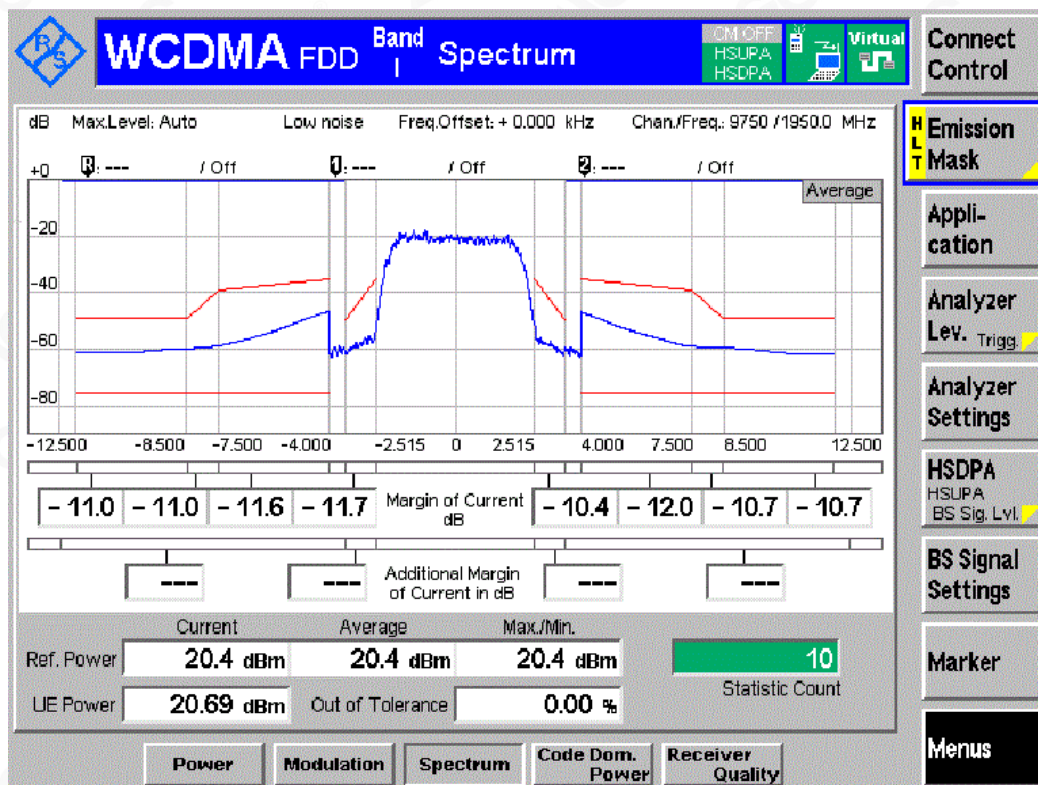


## Channel MCH

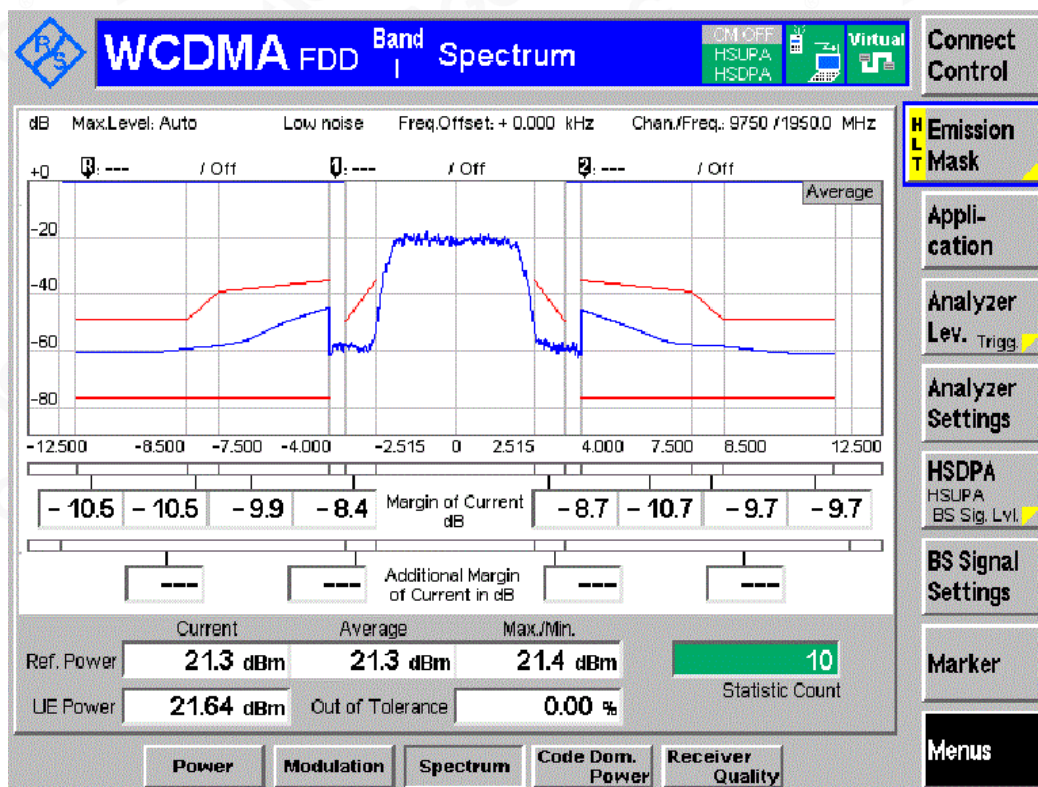
### Sub-test 1



### Sub-test 2

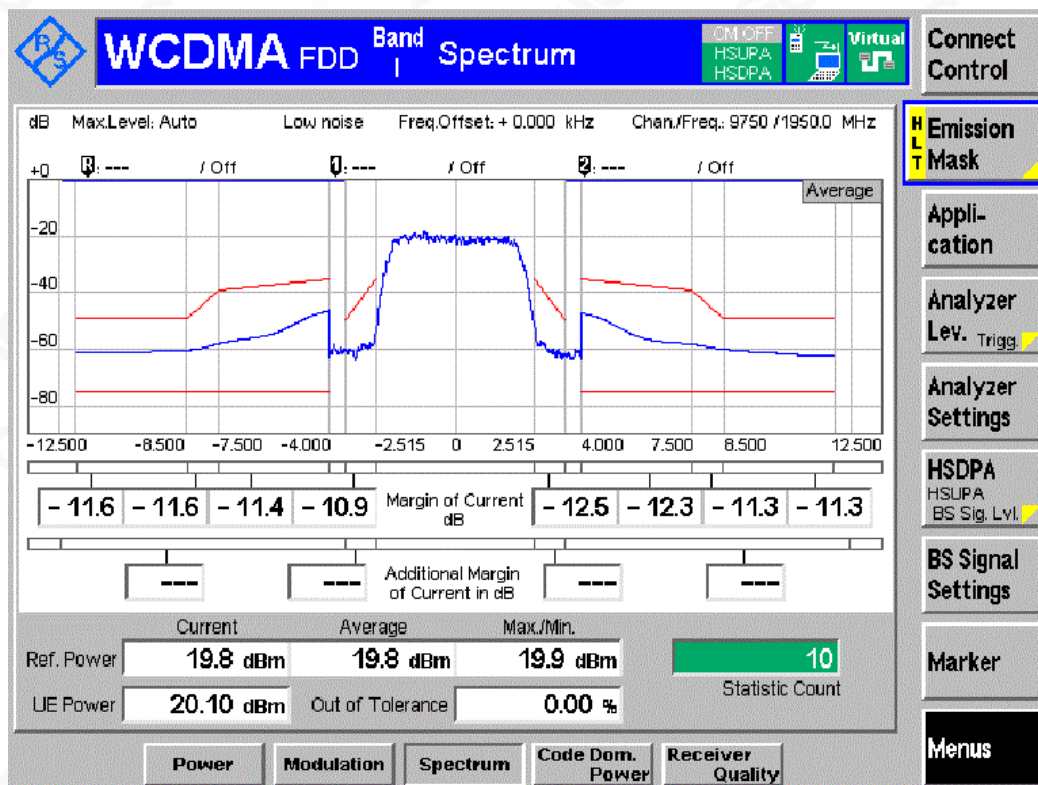


### Sub-test 3

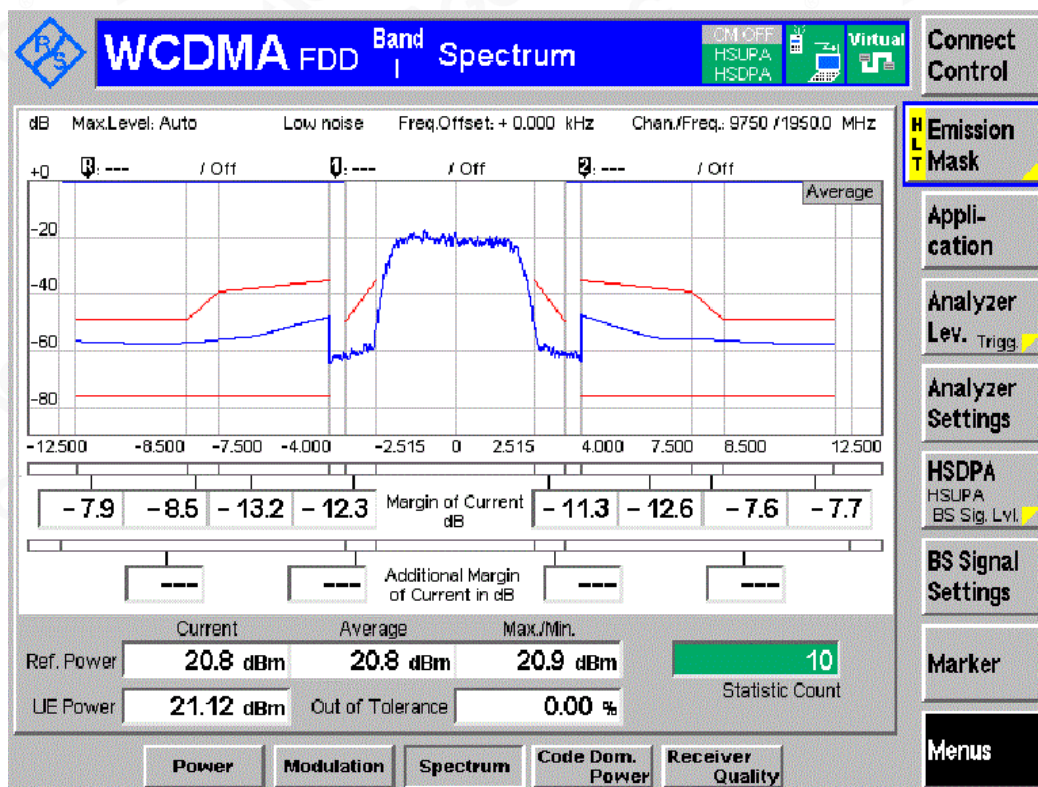




#### Sub-test 4

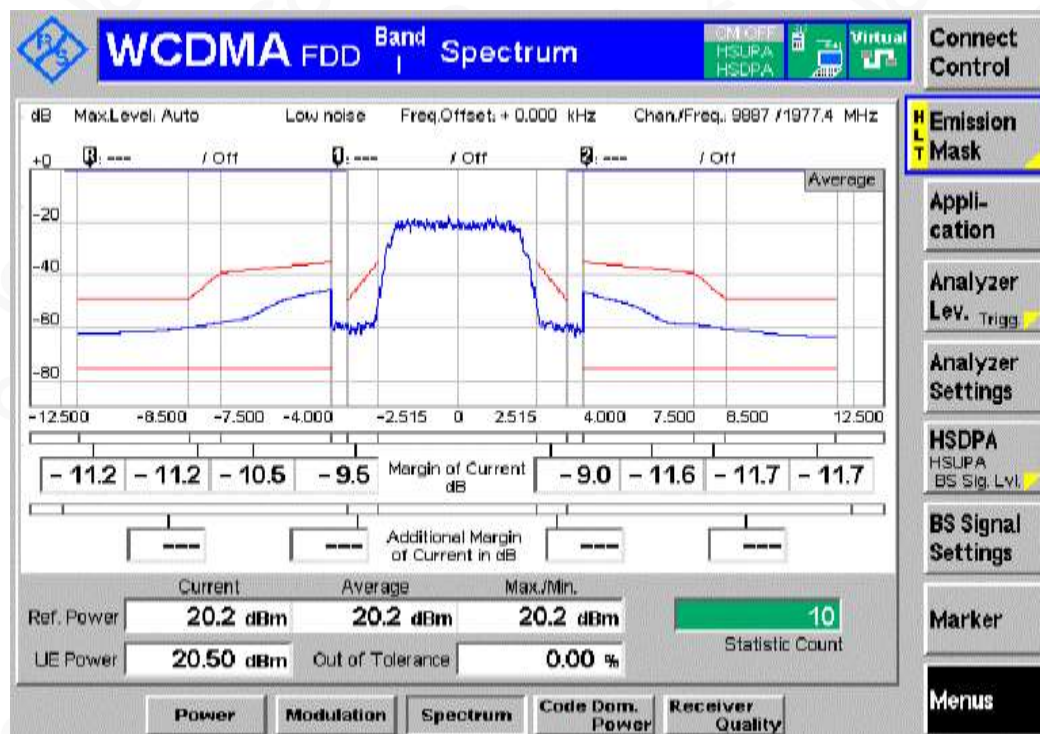


#### Sub – test 5

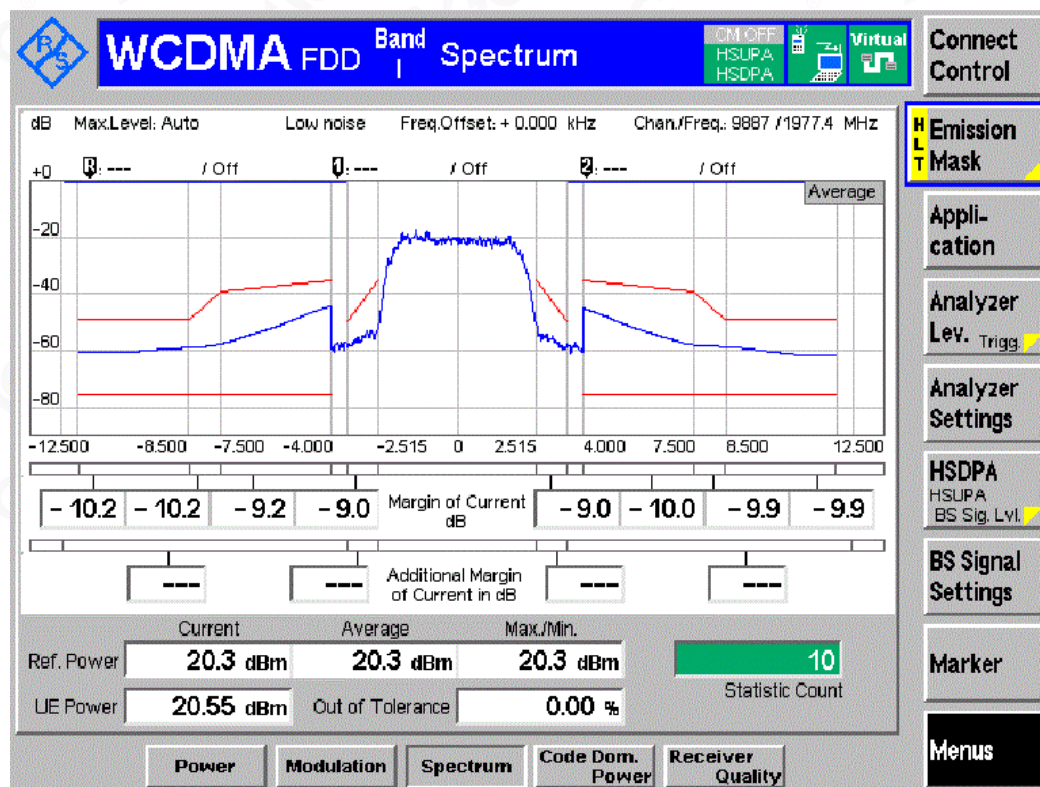


## Channel HCH

### Sub-test 1

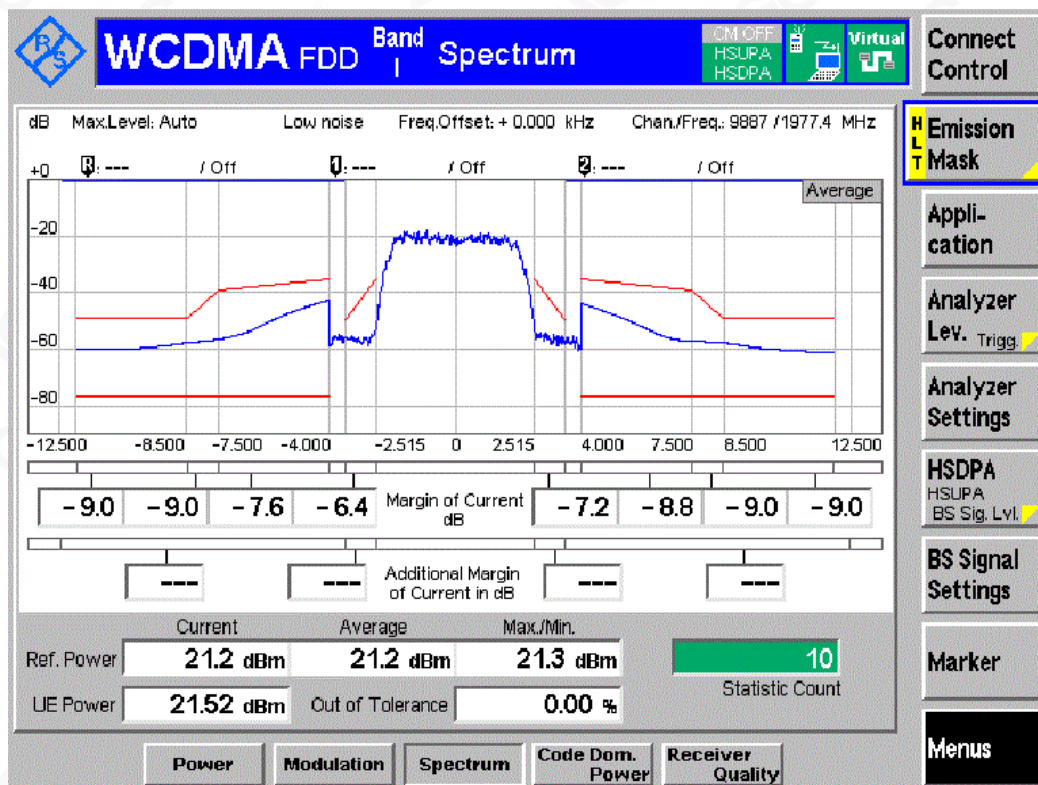


### Sub-test 2

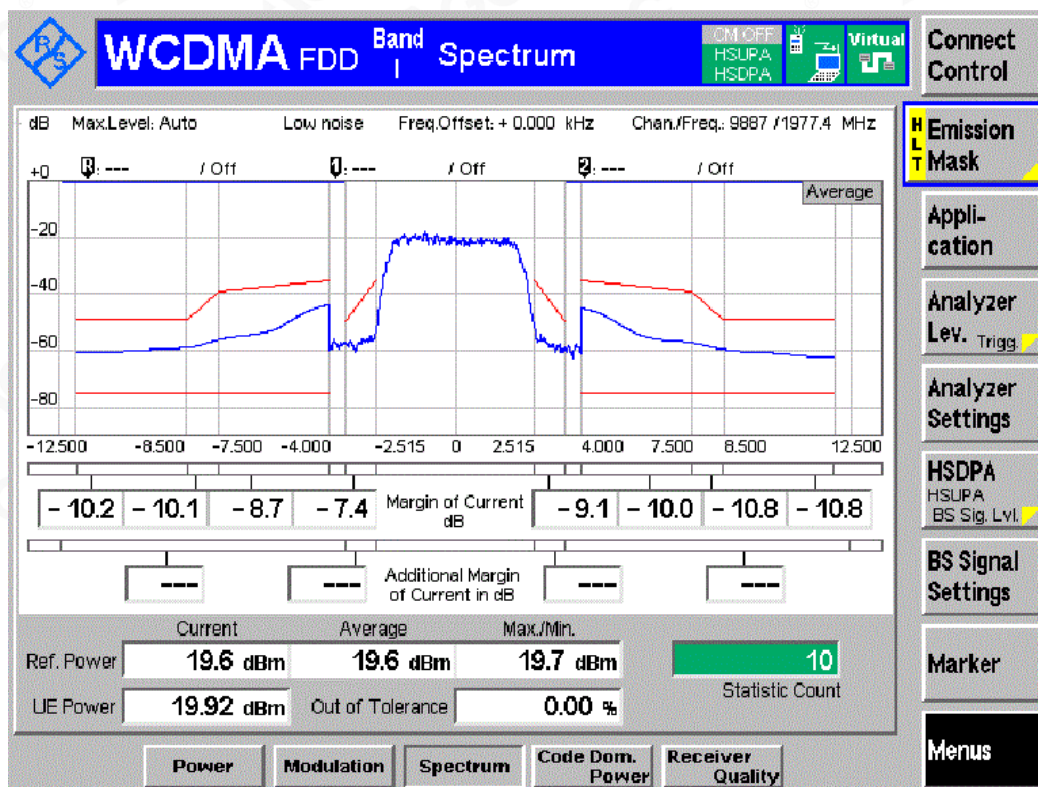




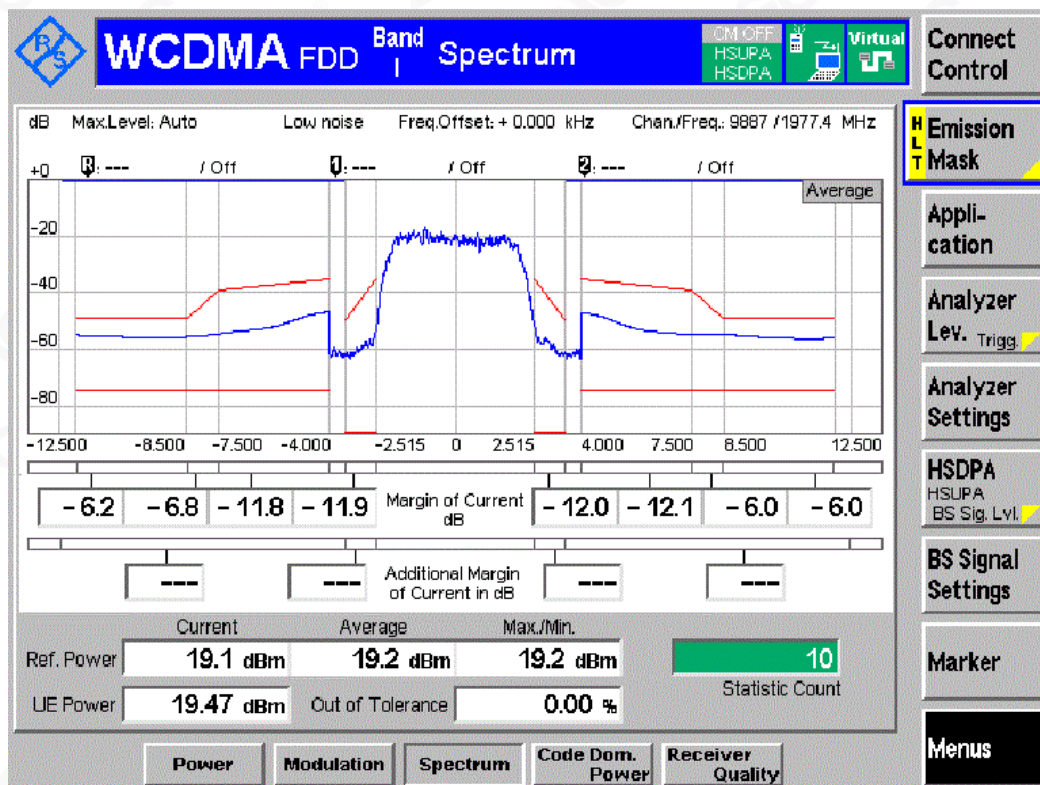
### Sub-test 3



### Sub-test 4



## Sub-test 5



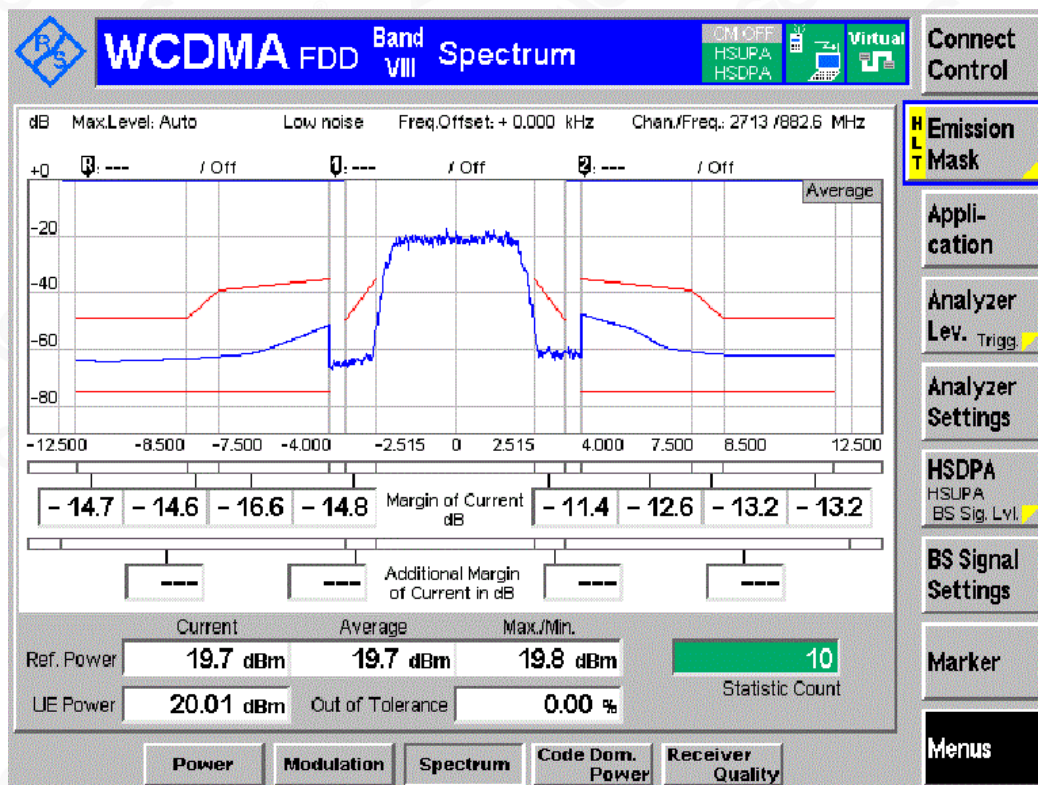
## BAND VIII

## Channel LCH

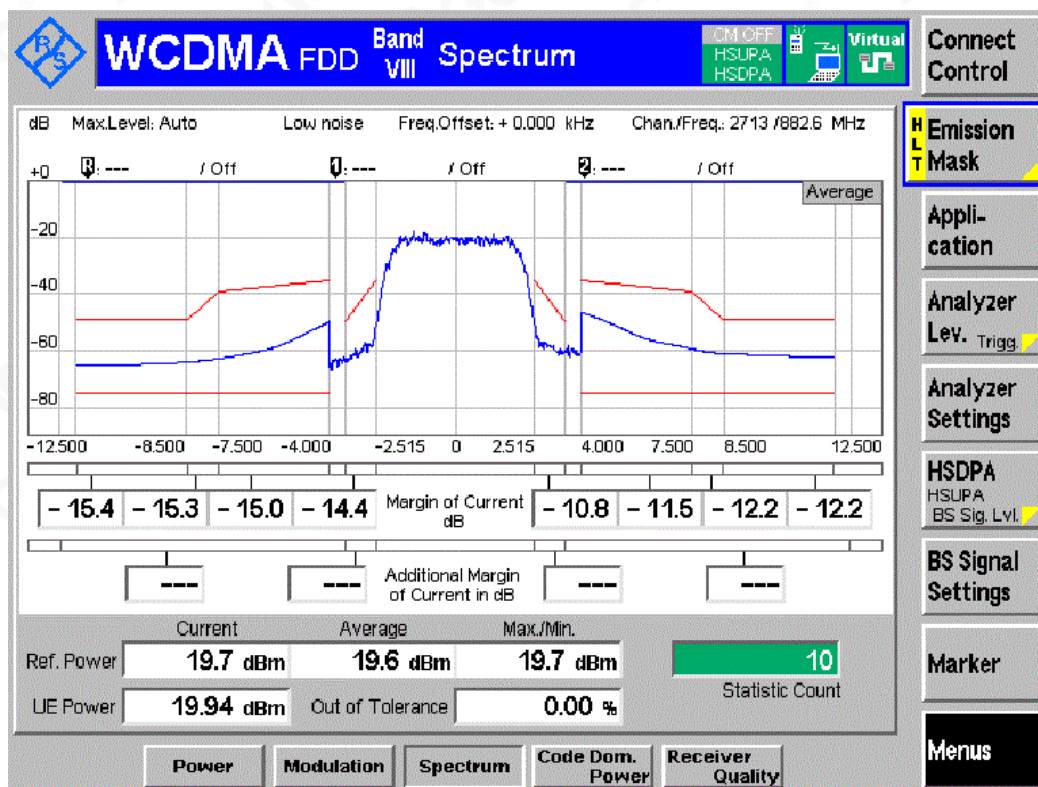




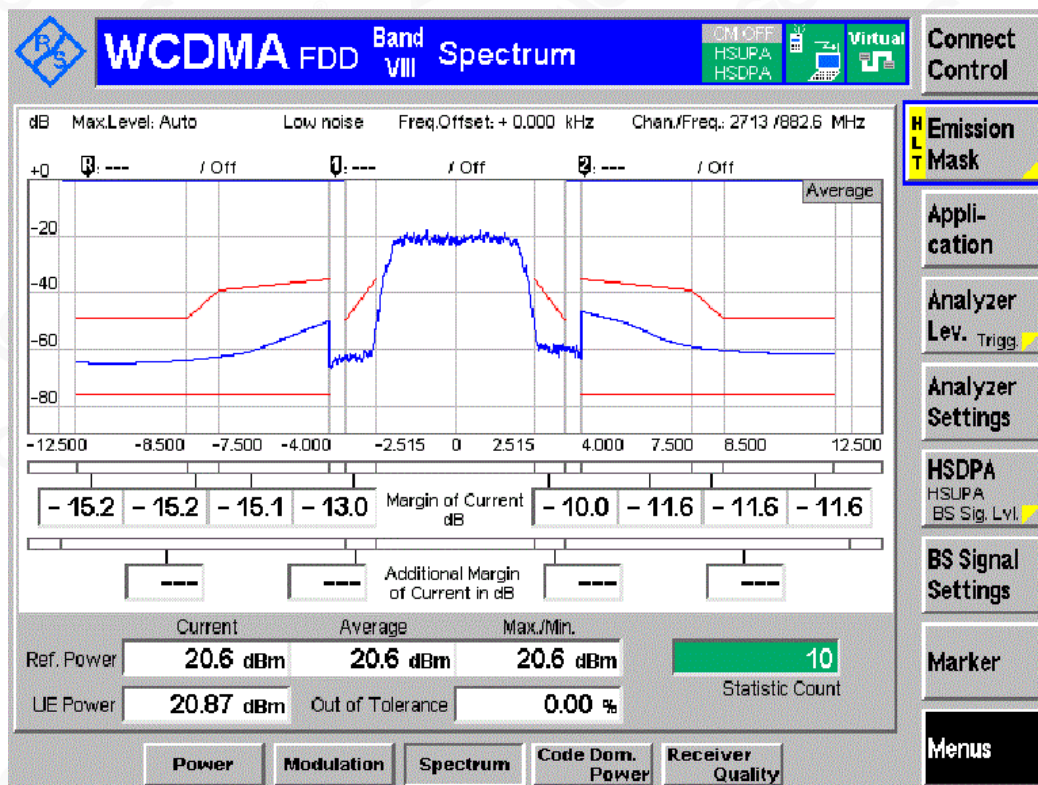
## Sub-test 1



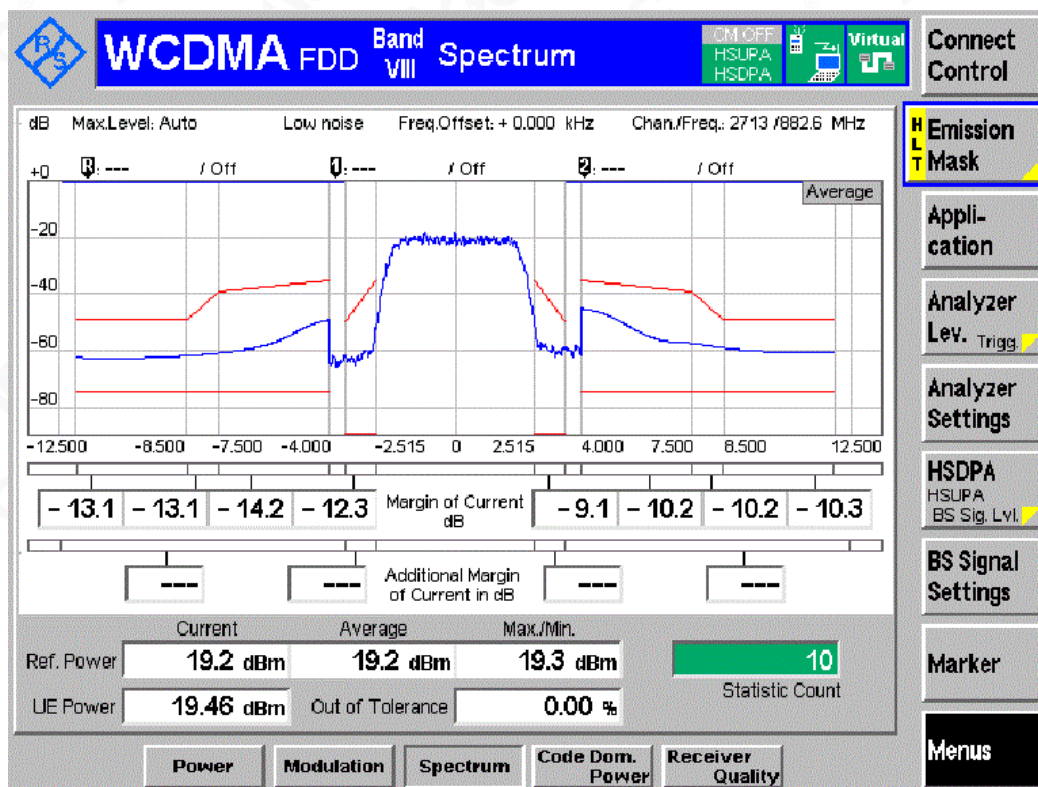
## Sub-test 2



### Sub-test 3

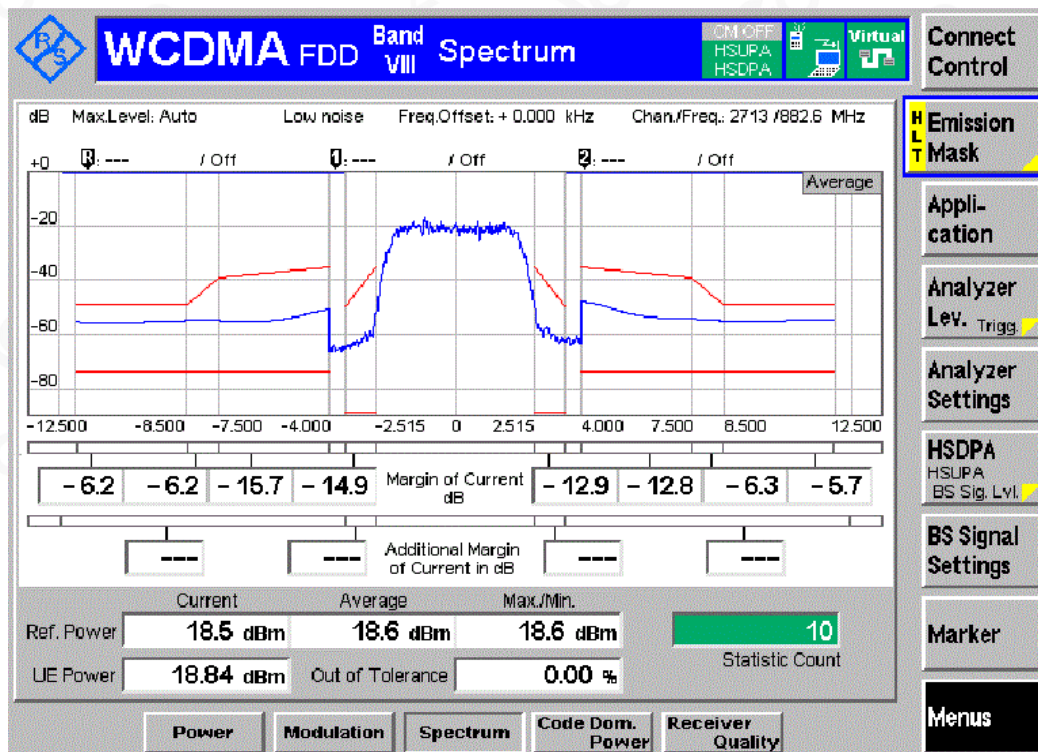


### Sub-test 4



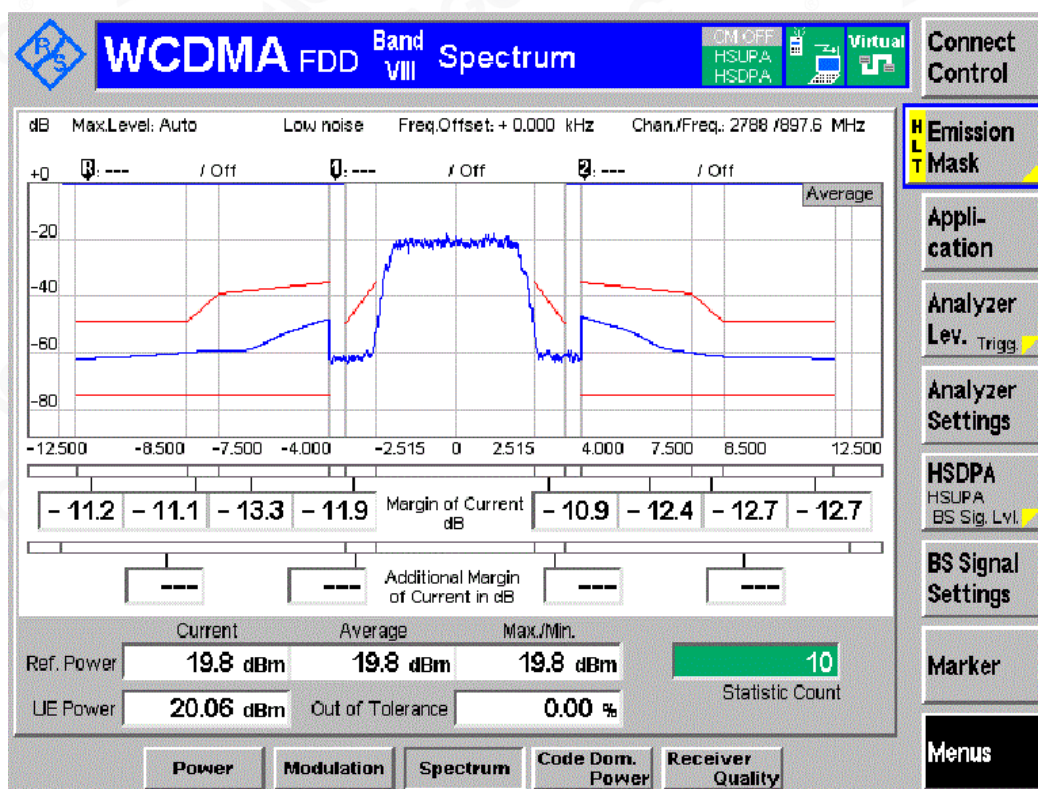


## Sub-test 5

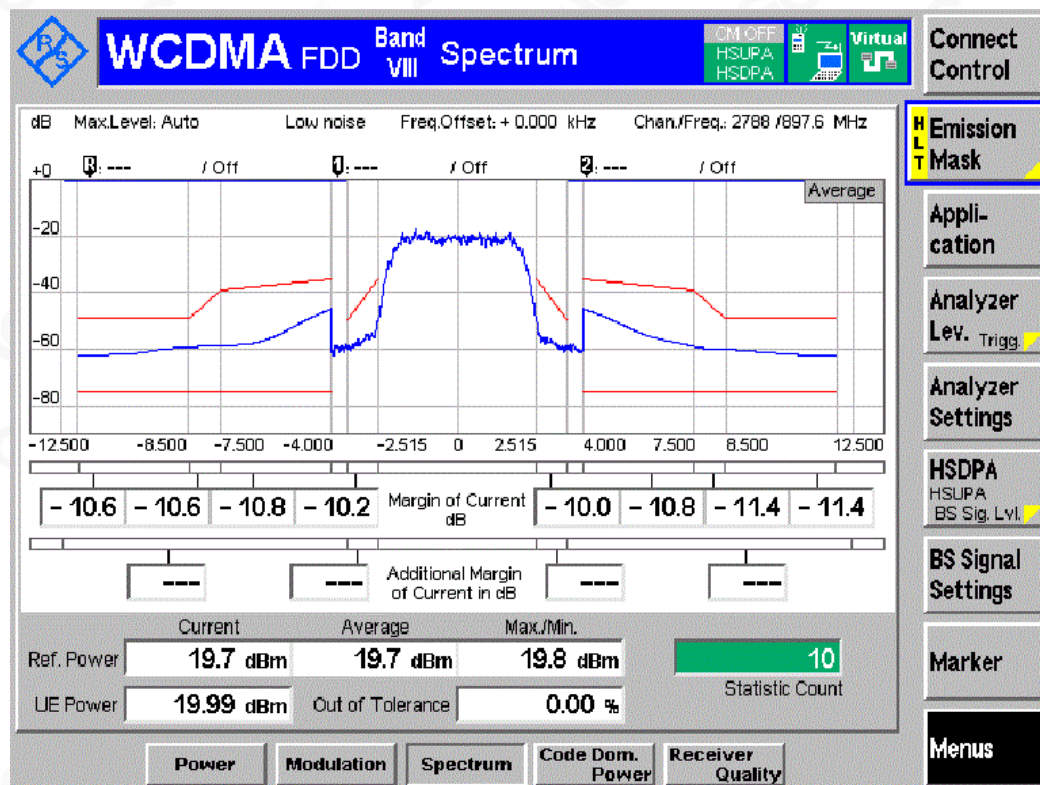


## Channel MCH

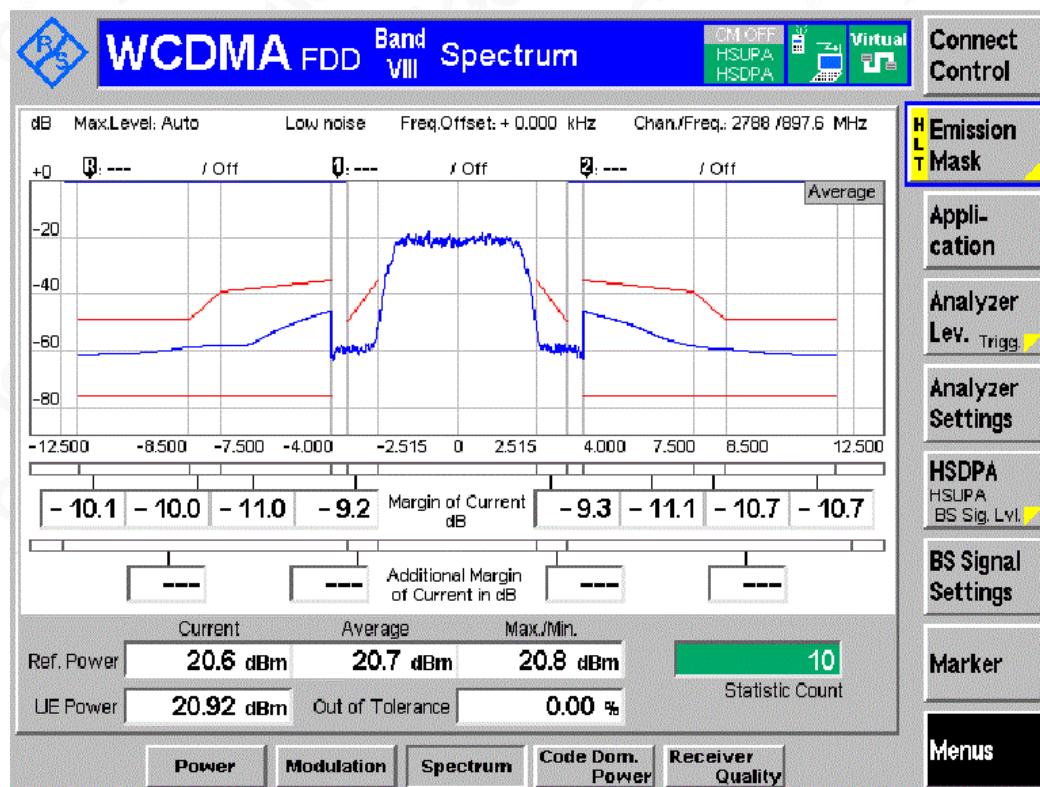
### Sub-test 1



### Sub-test 2

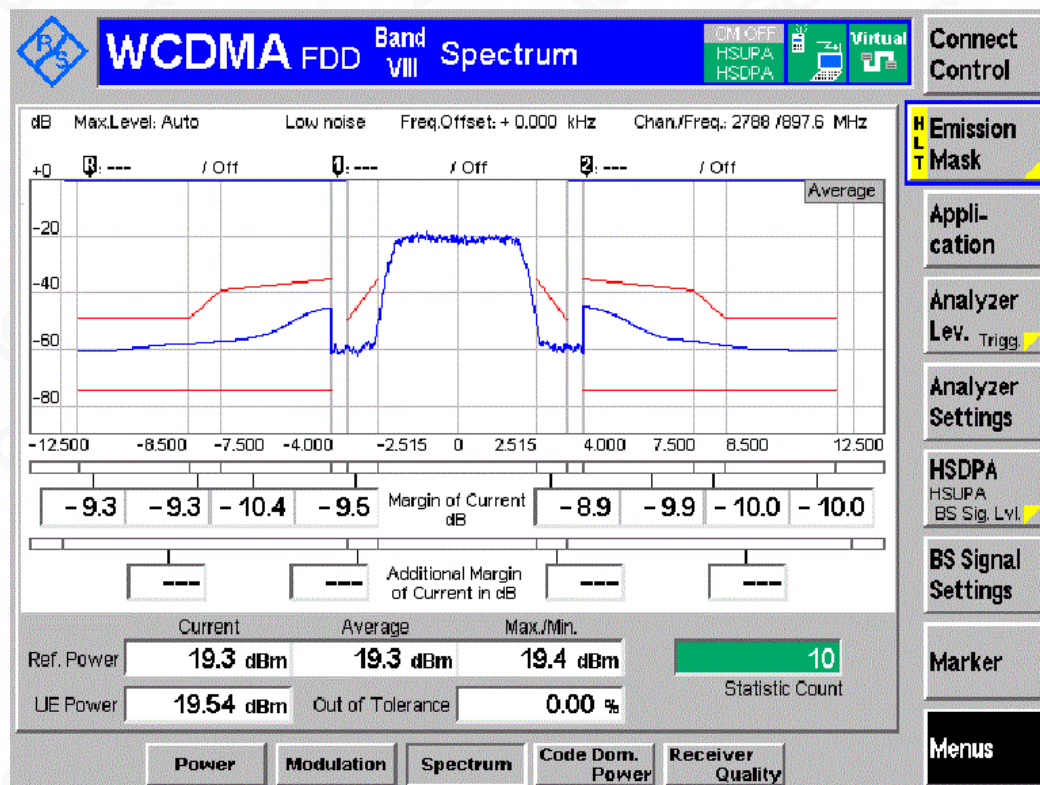


### Sub-test 3

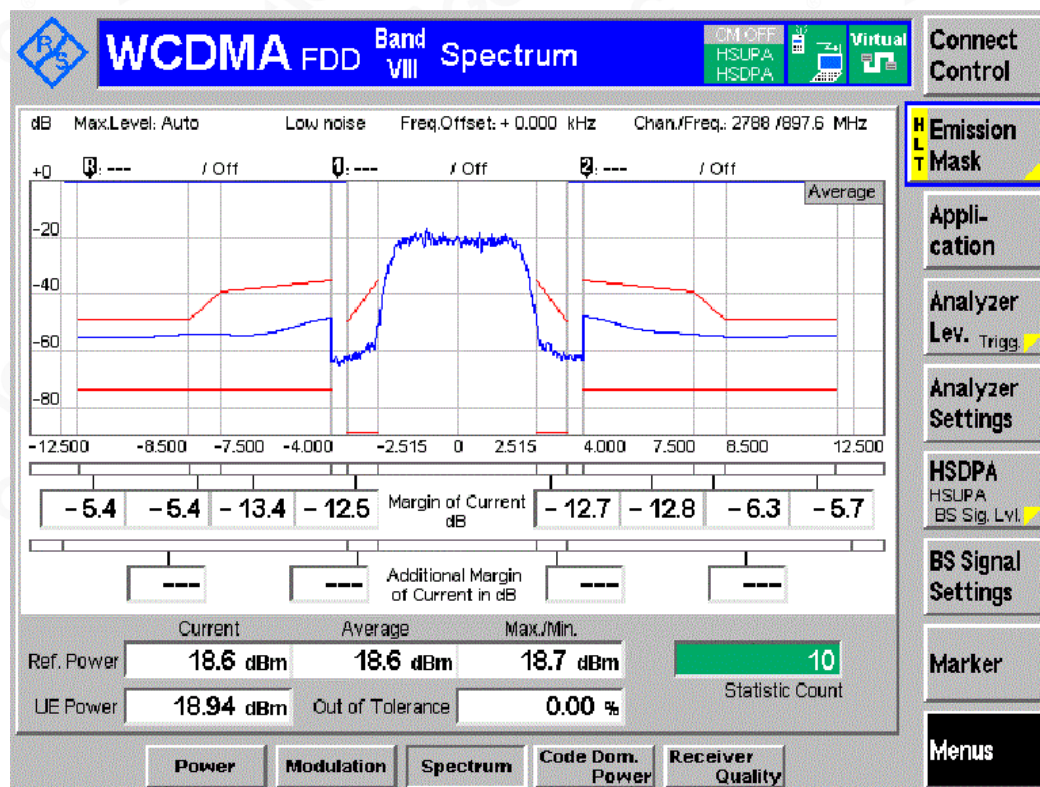




#### Sub-test 4

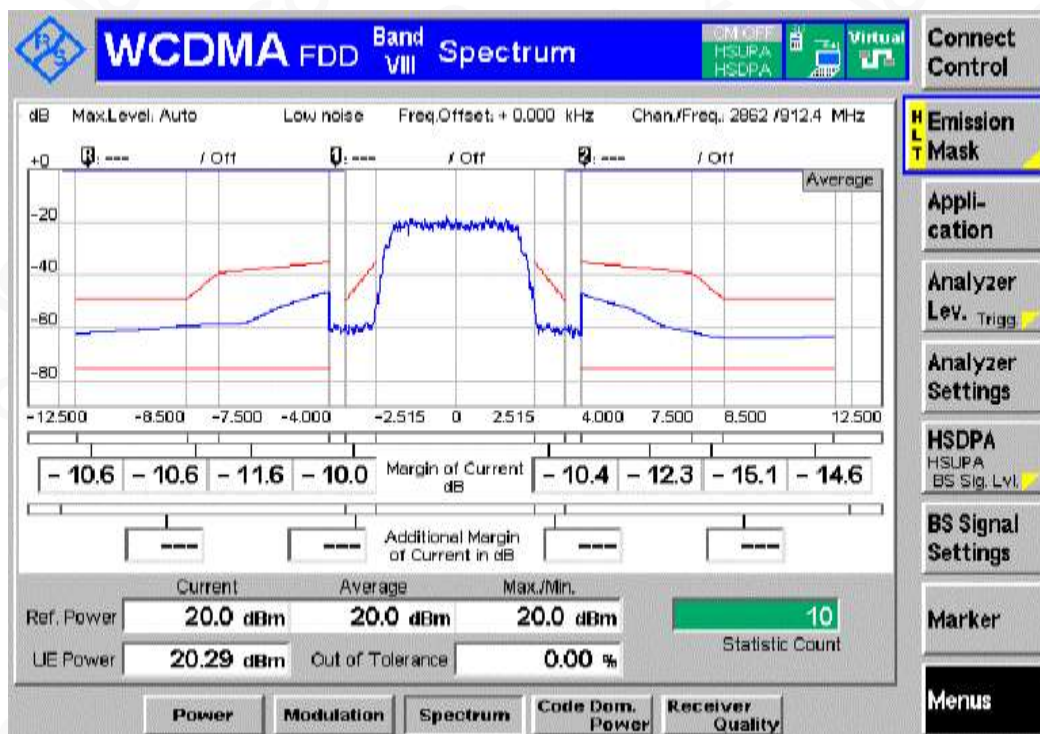


#### Sub-test 5

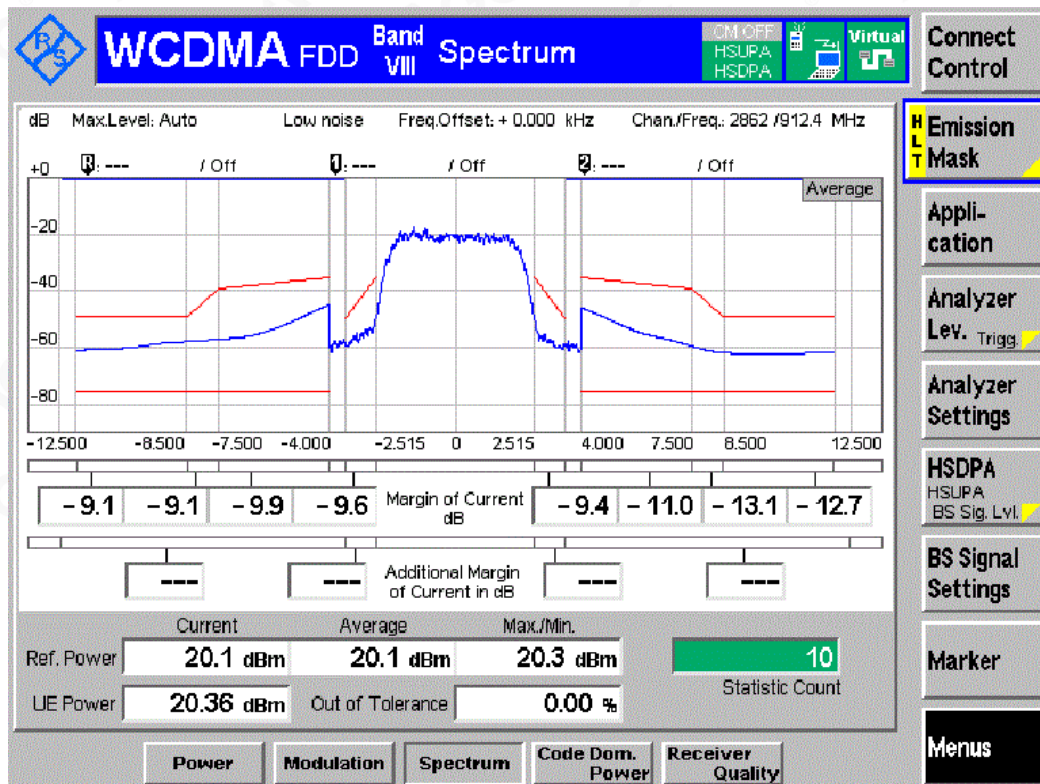


## Channel HCH

### Sub-test 1

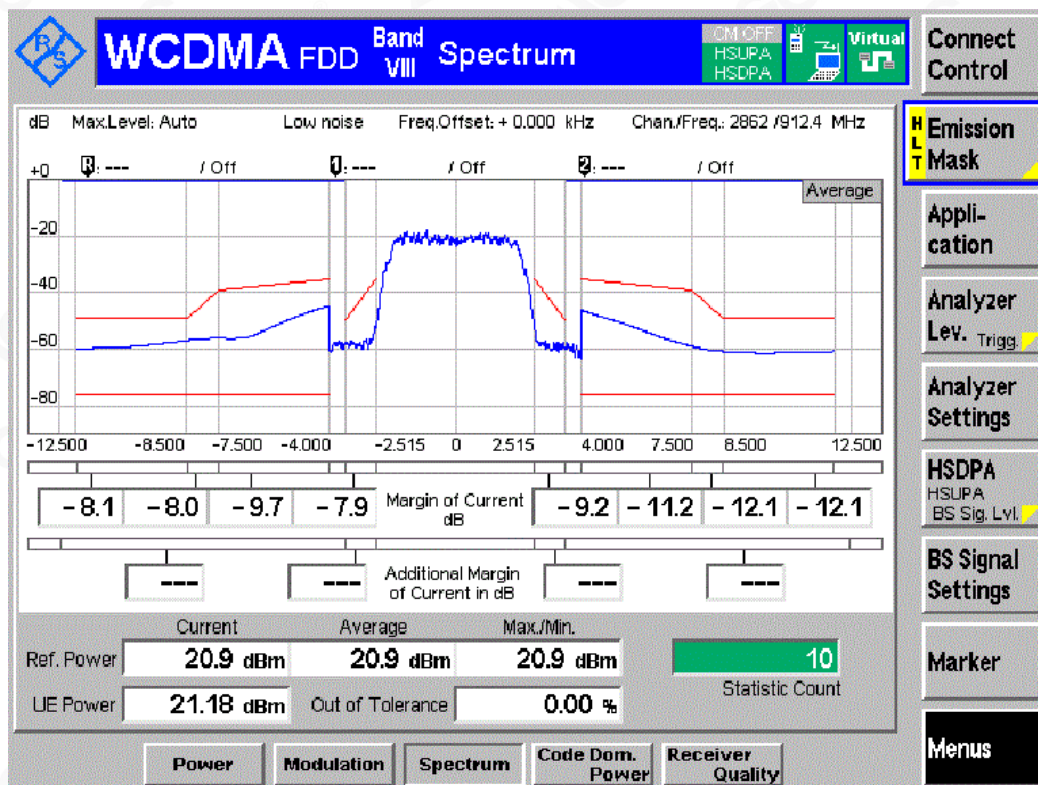


### Sub-test 2

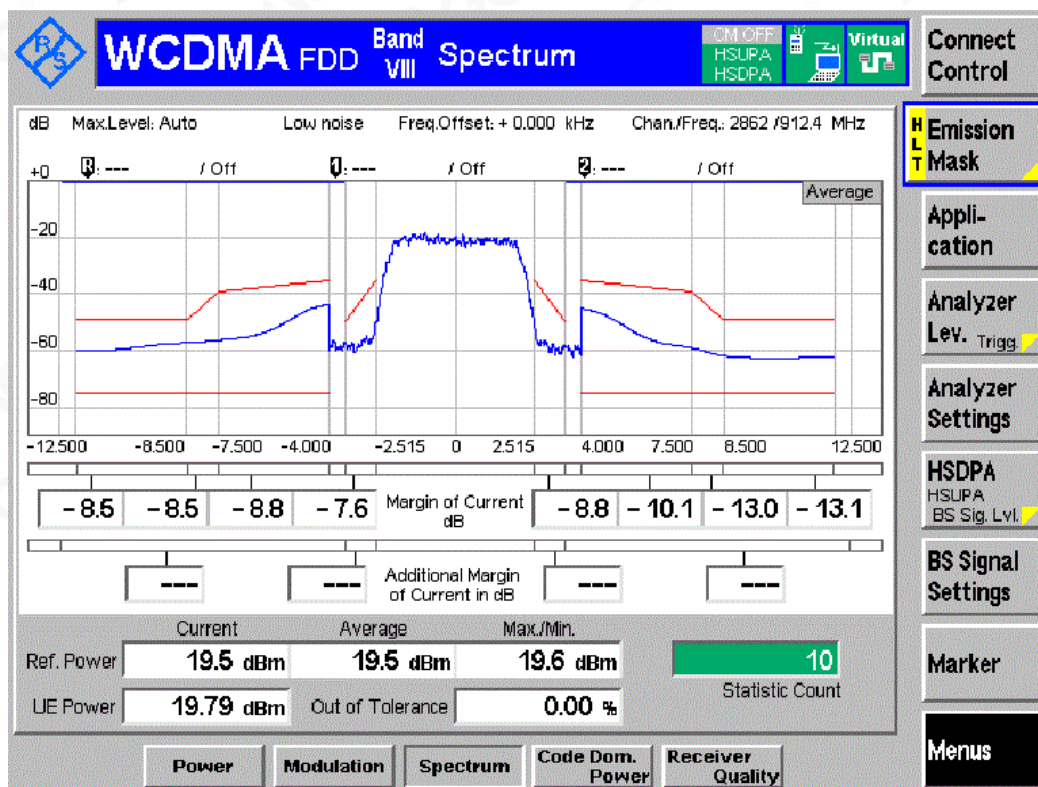




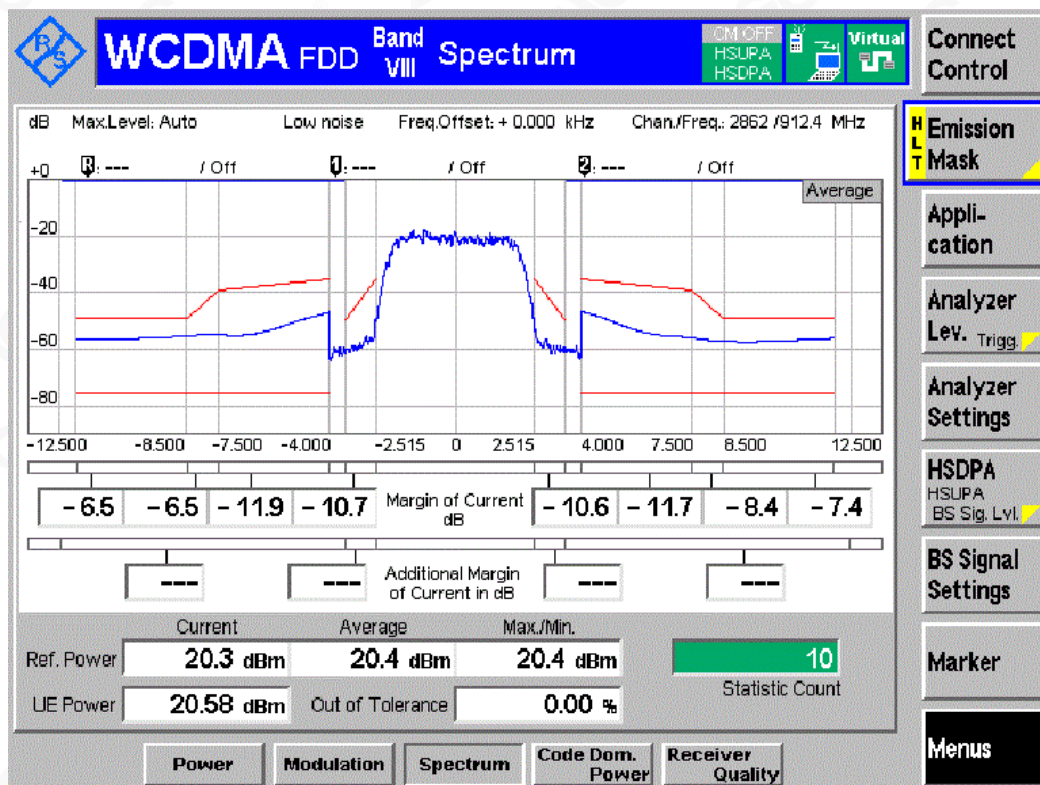
### Sub-test 3



### Sub-test 4



Sub-test 5





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

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I&BAND VIII TNVN ) of fellow:

Operating Band	Test Conditions	Test Channel	Sub-test	UE Channel	Measurement Data(dBm)	Limit (dBm)	Result
Band I	TNVN	LCH	1	+5MHz	-46.49	-32.2	Pass
				-5 MHz	-45.50	-32.2	Pass
				-10MHz	-57.28	-42.2	Pass
				+10MHz	-57.71	-42.2	Pass
			2	+5MHz	-44.69	-32.2	Pass
				-5 MHz	-43.68	-32.2	Pass
				-10MHz	-55.45	-42.2	Pass
				+10MHz	-55.80	-42.2	Pass
			3	+5MHz	-43.21	-32.2	Pass
				-5 MHz	-42.08	-32.2	Pass
				-10MHz	-55.17	-42.2	Pass
				+10MHz	-55.07	-42.2	Pass
			4	+5MHz	-45.58	-32.2	Pass
				-5 MHz	-44.56	-32.2	Pass
				-10MHz	-55.72	-42.2	Pass
				+10MHz	-56.15	-42.2	Pass
			5	+5MHz	-46.07	-32.2	Pass
				-5 MHz	-46.21	-32.2	Pass
				-10MHz	-50.31	-42.2	Pass
				+10MHz	-50.52	-42.2	Pass
		MCH	1	+5MHz	-45.39	-32.2	Pass
				-5 MHz	-44.86	-32.2	Pass
				-10MHz	-56.98	-42.2	Pass
				+10MHz	-57.19	-42.2	Pass
			2	+5MHz	-43.95	-32.2	Pass
				-5 MHz	-43.56	-32.2	Pass
				-10MHz	-55.59	-42.2	Pass
				+10MHz	-55.34	-42.2	Pass
			3	+5MHz	-42.63	-32.2	Pass
				-5 MHz	-41.96	-32.2	Pass
				-10MHz	-54.87	-42.2	Pass
				+10MHz	-54.54	-42.2	Pass
			4	+5MHz	-44.60	-32.2	Pass



				-5 MHz	-43.77	-32.2	Pass	
				-10MHz	-55.56	-42.2	Pass	
				+10MHz	-55.91	-42.2	Pass	
			5	+5MHz	-44.45	-32.2	Pass	
				-5 MHz	-44.64	-32.2	Pass	
				-10MHz	-51.96	-42.2	Pass	
				+10MHz	-51.83	-42.2	Pass	
			HCH	1	+5MHz	-43.40	-32.2	Pass
					-5 MHz	-42.37	-32.2	Pass
					-10MHz	-55.83	-42.2	Pass
		+10MHz			-56.53	-42.2	Pass	
		2		+5MHz	-41.94	-32.2	Pass	
				-5 MHz	-41.02	-32.2	Pass	
				-10MHz	-54.45	-42.2	Pass	
				+10MHz	-54.83	-42.2	Pass	
		3		+5MHz	-40.79	-32.2	Pass	
				-5 MHz	-39.56	-32.2	Pass	
				-10MHz	-53.74	-42.2	Pass	
				+10MHz	-53.95	-42.2	Pass	
		4		+5MHz	-42.32	-32.2	Pass	
				-5 MHz	-41.13	-32.2	Pass	
				-10MHz	-54.58	-42.2	Pass	
				+10MHz	-55.60	-42.2	Pass	
		5		+5MHz	-43.73	-32.2	Pass	
				-5 MHz	-43.40	-32.2	Pass	
				-10MHz	-50.28	-42.2	Pass	
				+10MHz	-50.30	-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	-44.79	-32.2	Pass
				-5 MHz	-48.59	-32.2	Pass
				-10MHz	-58.68	-42.2	Pass
				+10MHz	-56.89	-42.2	Pass
			2	+5MHz	-43.28	-32.2	Pass
				-5 MHz	-46.72	-32.2	Pass
				-10MHz	-59.46	-42.2	Pass





			3	+10MHz	-56.34	-42.2	Pass
				+5MHz	-43.04	-32.2	Pass
				-5 MHz	-46.96	-32.2	Pass
				-10MHz	-59.50	-42.2	Pass
				+10MHz	-56.06	-42.2	Pass
			4	+5MHz	-42.51	-32.2	Pass
				-5 MHz	-46.24	-32.2	Pass
				-10MHz	-57.05	-42.2	Pass
				+10MHz	-54.60	-42.2	Pass
			5	+5MHz	-44.51	-32.2	Pass
				-5 MHz	-46.74	-32.2	Pass
				-10MHz	-50.25	-42.2	Pass
				+10MHz	-49.76	-42.2	Pass
		MCH	1	+5MHz	-44.27	-32.2	Pass
				-5 MHz	-45.17	-32.2	Pass
				-10MHz	-55.66	-42.2	Pass
				+10MHz	-56.35	-42.2	Pass
			2	+5MHz	-42.76	-32.2	Pass
				-5 MHz	-42.70	-32.2	Pass
				-10MHz	-54.82	-42.2	Pass
				+10MHz	-55.72	-42.2	Pass
			3	+5MHz	-42.39	-32.2	Pass
				-5 MHz	-42.74	-32.2	Pass
				-10MHz	-54.92	-42.2	Pass
				+10MHz	-55.20	-42.2	Pass
			4	+5MHz	-42.07	-32.2	Pass
				-5 MHz	-42.41	-32.2	Pass
				-10MHz	-53.73	-42.2	Pass
				+10MHz	-54.38	-42.2	Pass
			5	+5MHz	-44.14	-32.2	Pass
				-5 MHz	-44.89	-32.2	Pass
				-10MHz	-49.72	-42.2	Pass
				+10MHz	-49.74	-42.2	Pass
		HCH	1	+5MHz	-44.27	-32.2	Pass
				-5 MHz	-43.44	-32.2	Pass
				-10MHz	-55.22	-42.2	Pass
				+10MHz	-58.64	-42.2	Pass



			2	+5MHz	-42.82	-32.2	Pass
				-5 MHz	-41.57	-32.2	Pass
				-10MHz	-53.79	-42.2	Pass
				+10MHz	-56.72	-42.2	Pass
			3	+5MHz	-42.72	-32.2	Pass
				-5 MHz	-41.51	-32.2	Pass
				-10MHz	-52.96	-42.2	Pass
				+10MHz	-55.93	-42.2	Pass
			4	+5MHz	-42.34	-32.2	Pass
				-5 MHz	-40.80	-32.2	Pass
				-10MHz	-53.19	-42.2	Pass
				+10MHz	-57.00	-42.2	Pass
			5	+5MHz	-44.44	-32.2	Pass
				-5 MHz	-43.57	-32.2	Pass
				-10MHz	-51.73	-42.2	Pass
				+10MHz	-52.70	-42.2	Pass

**BAND I**

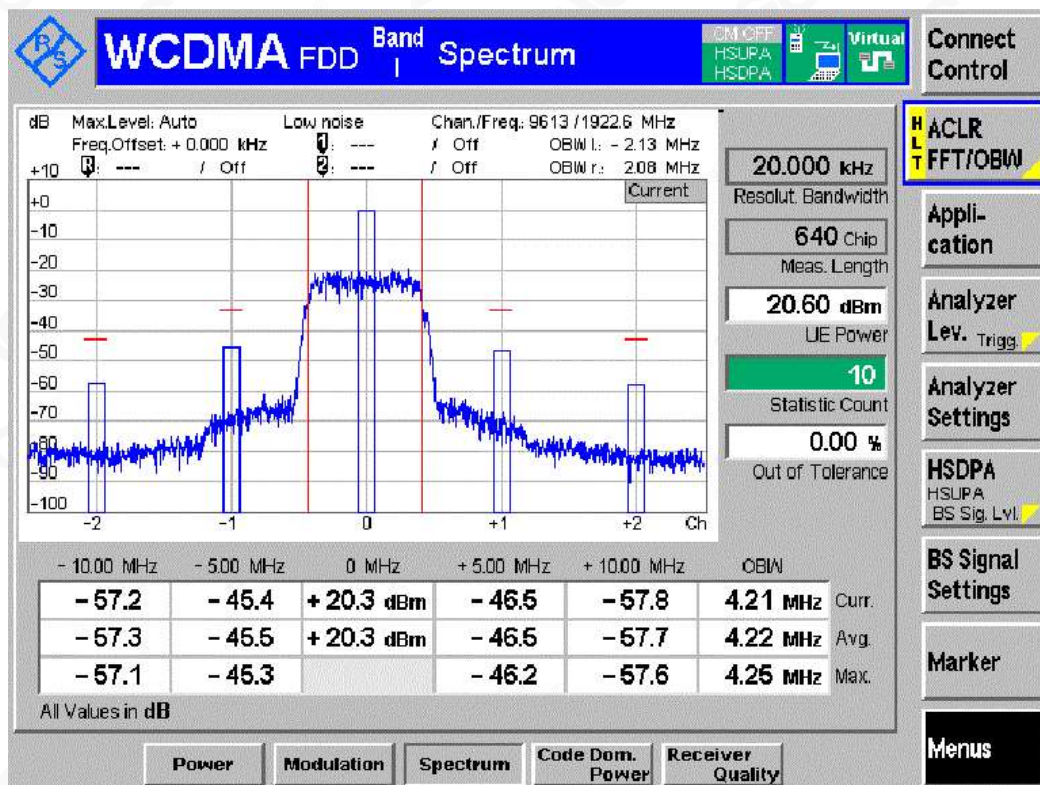
**TNVN**

Channel LCH

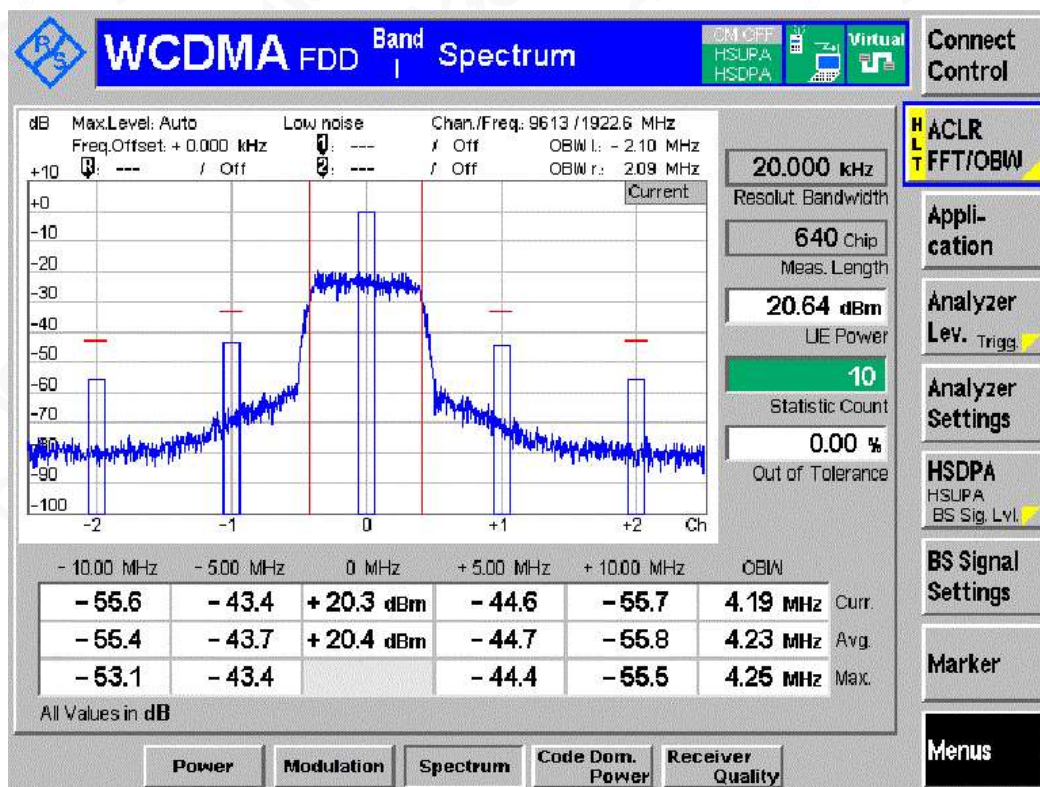




## Sub-test 1

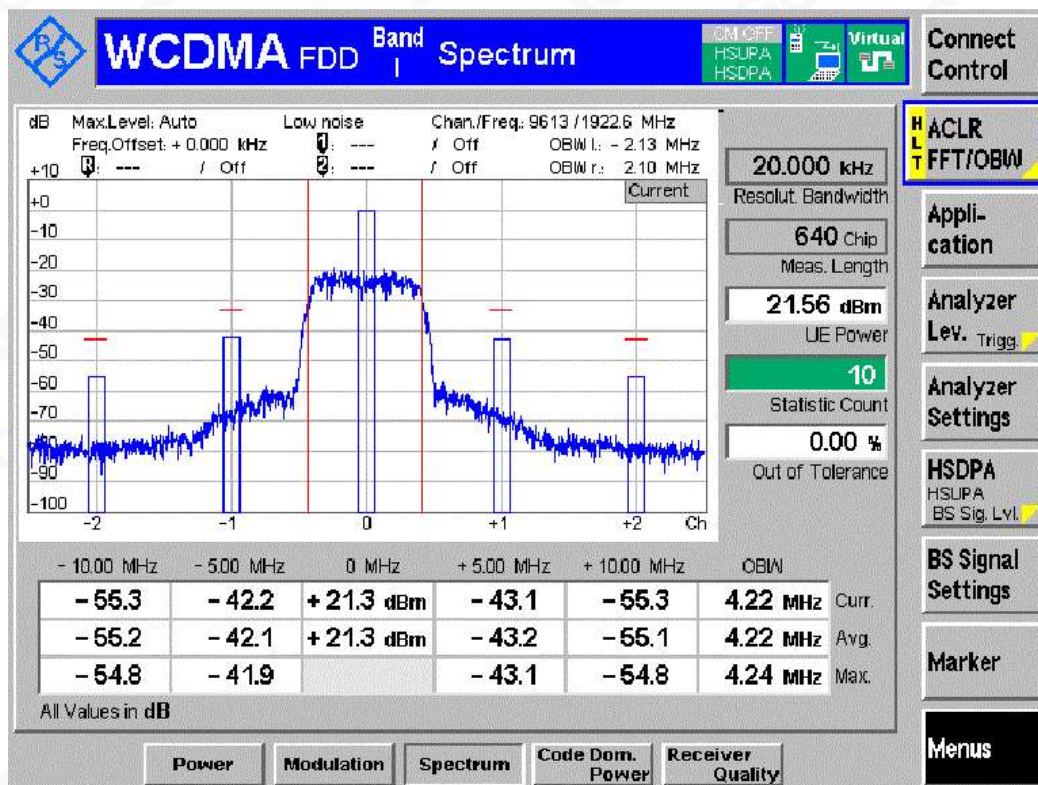


## Sub-test 2

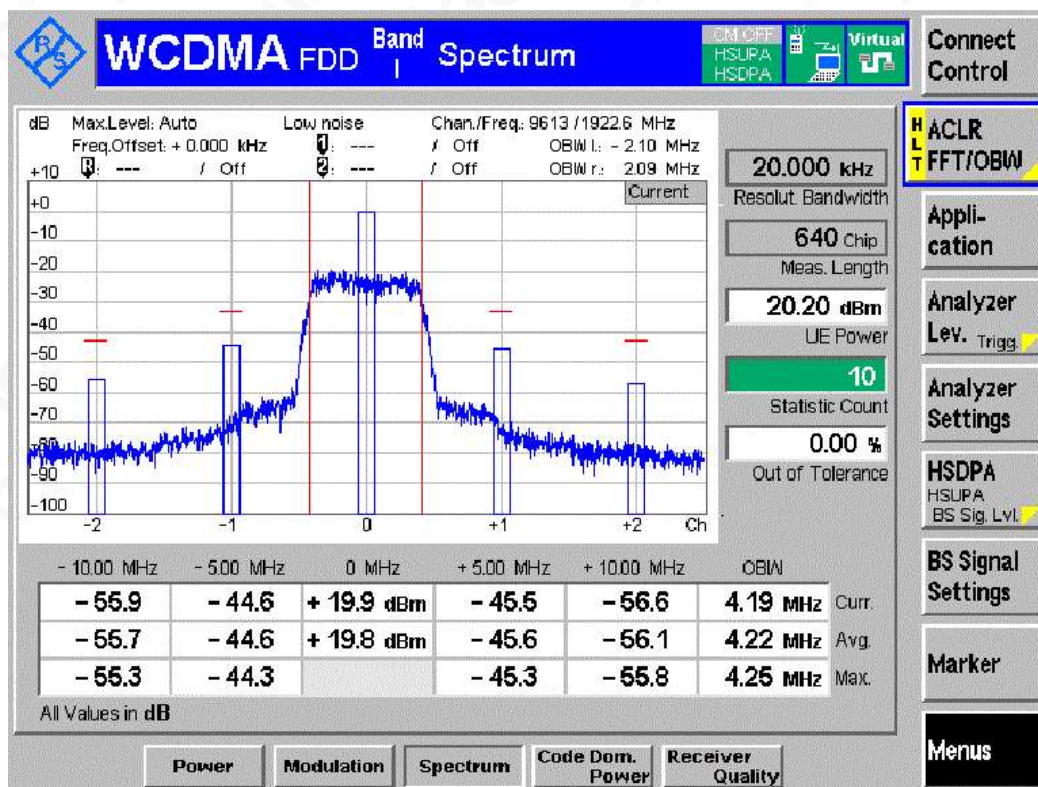




### Sub-test 3

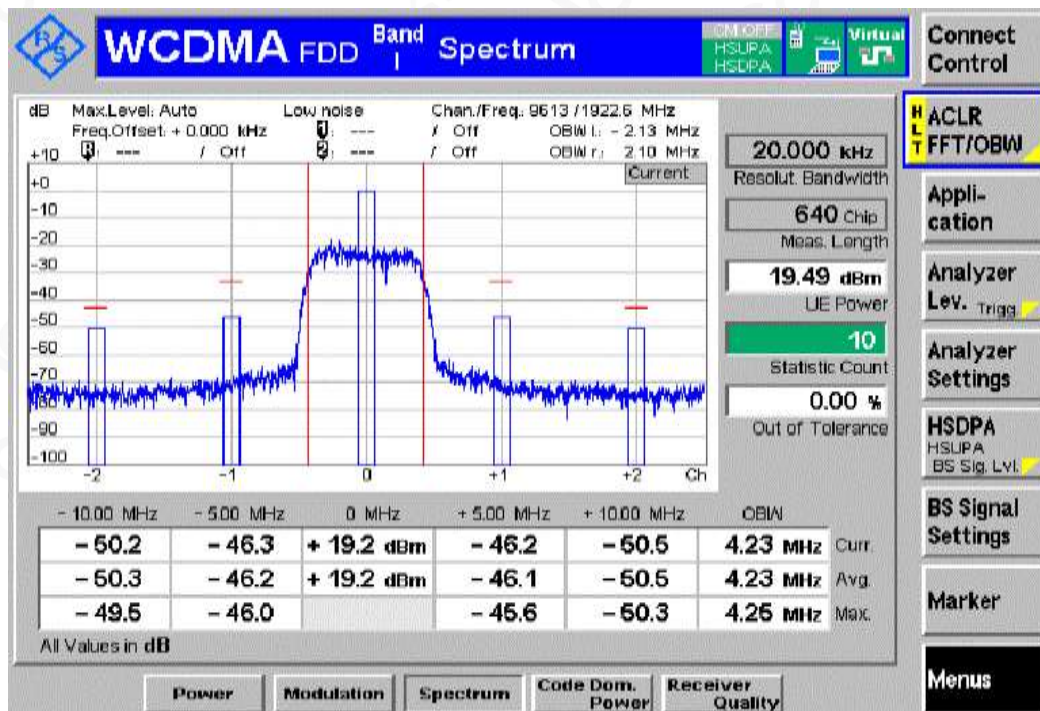


### Sub-test 4



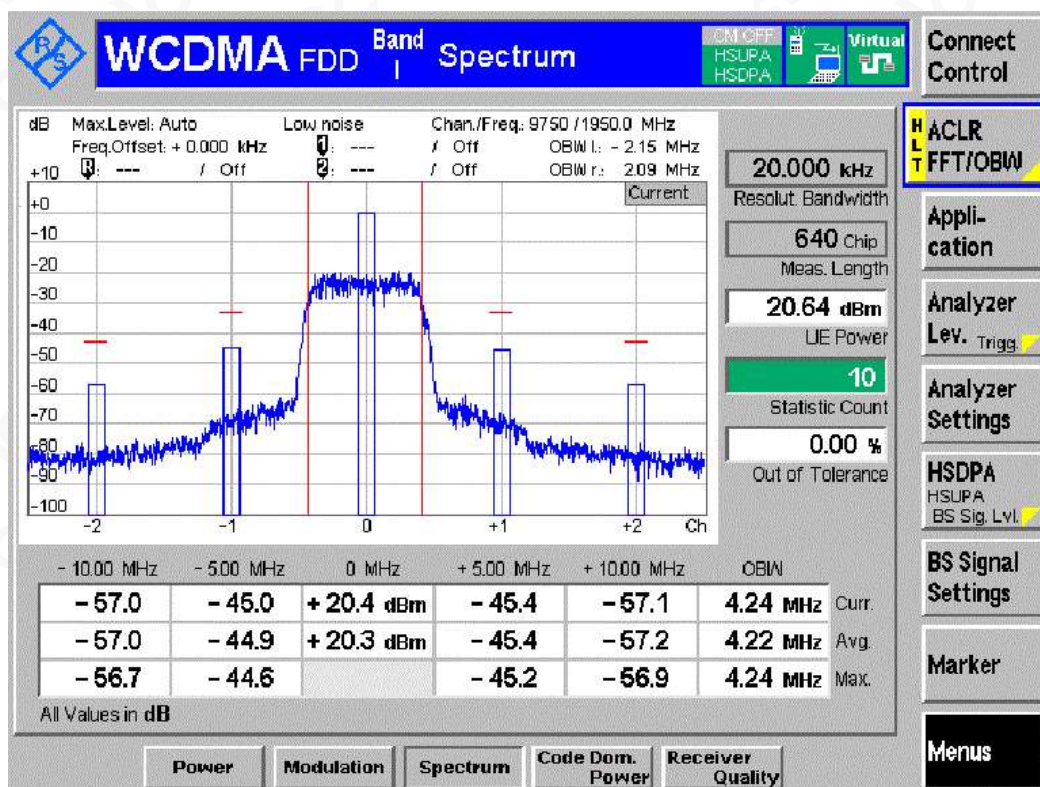


## Sub-test 5



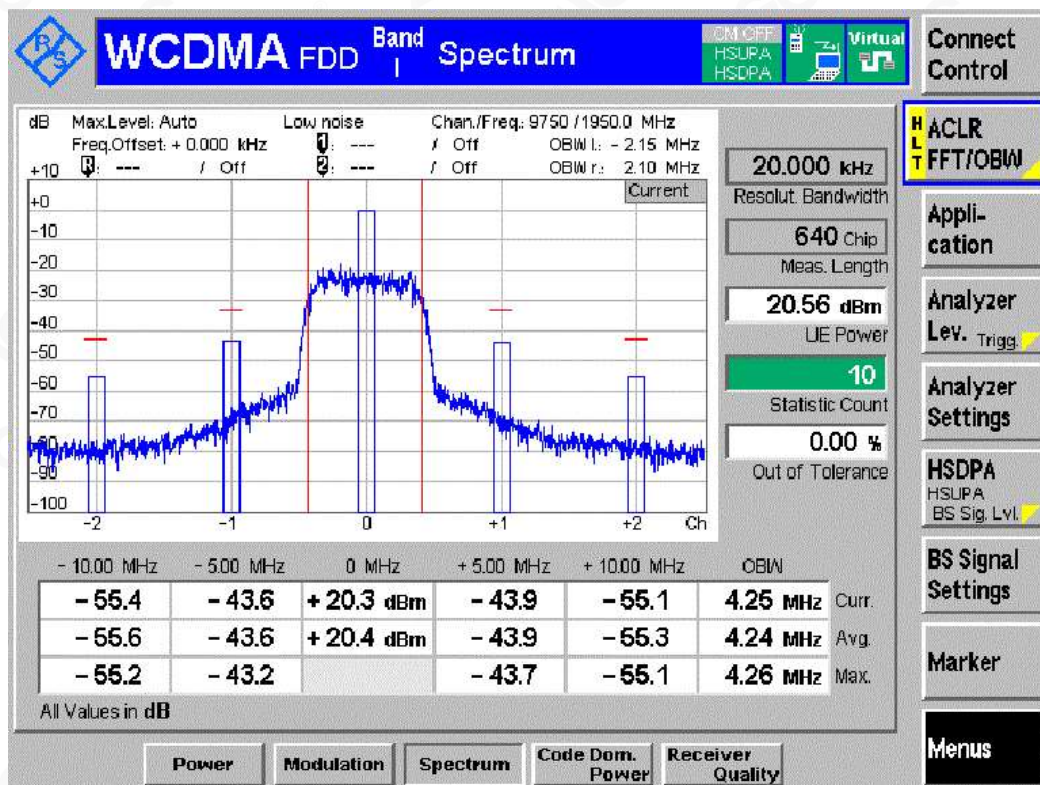
Channel MCH

## Sub-test 1

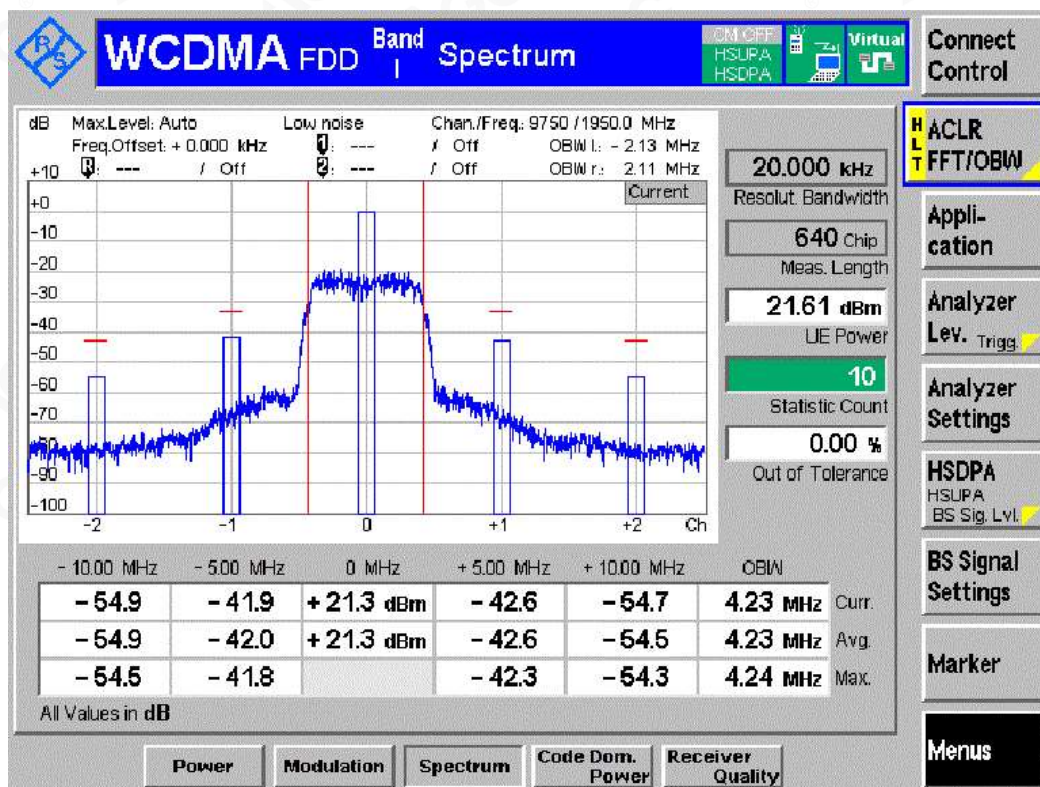




### Sub-test 2

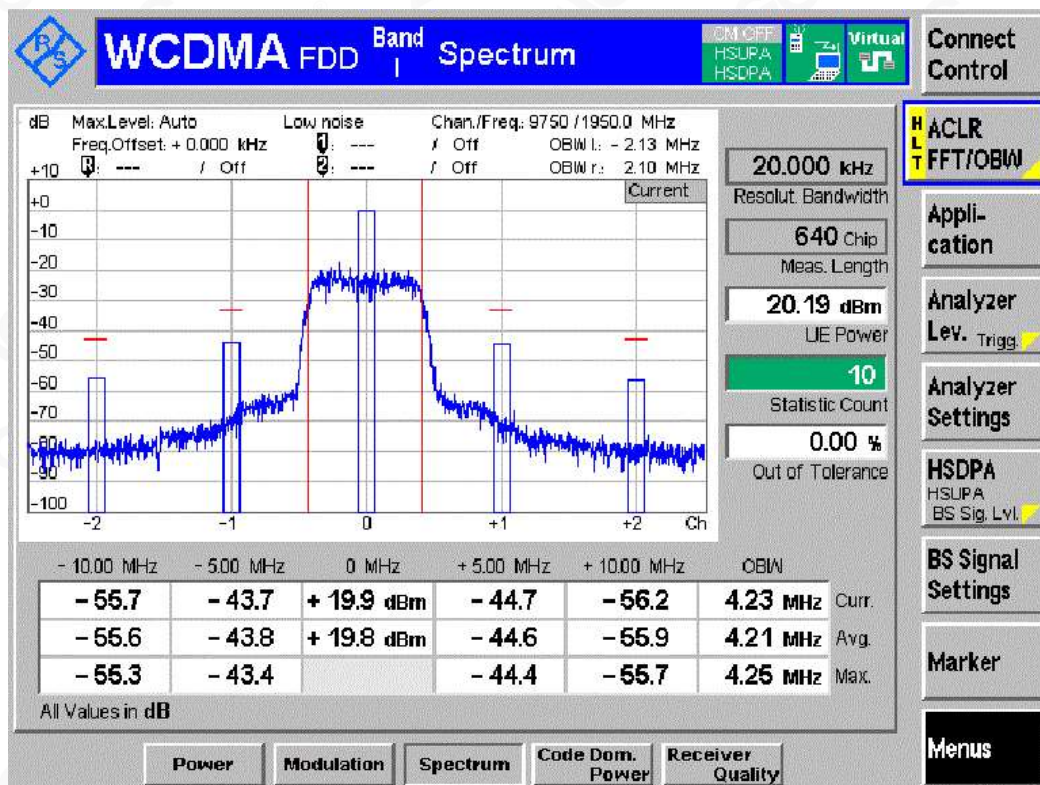


### Sub-test 3

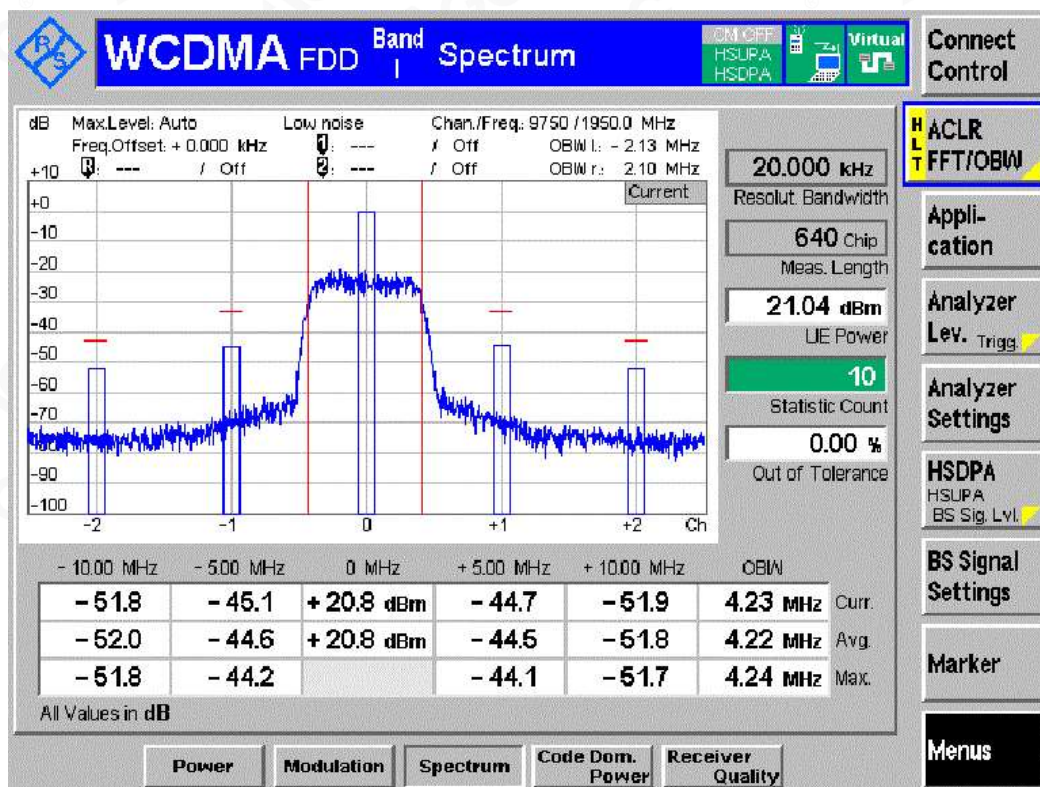




#### Sub-test 4

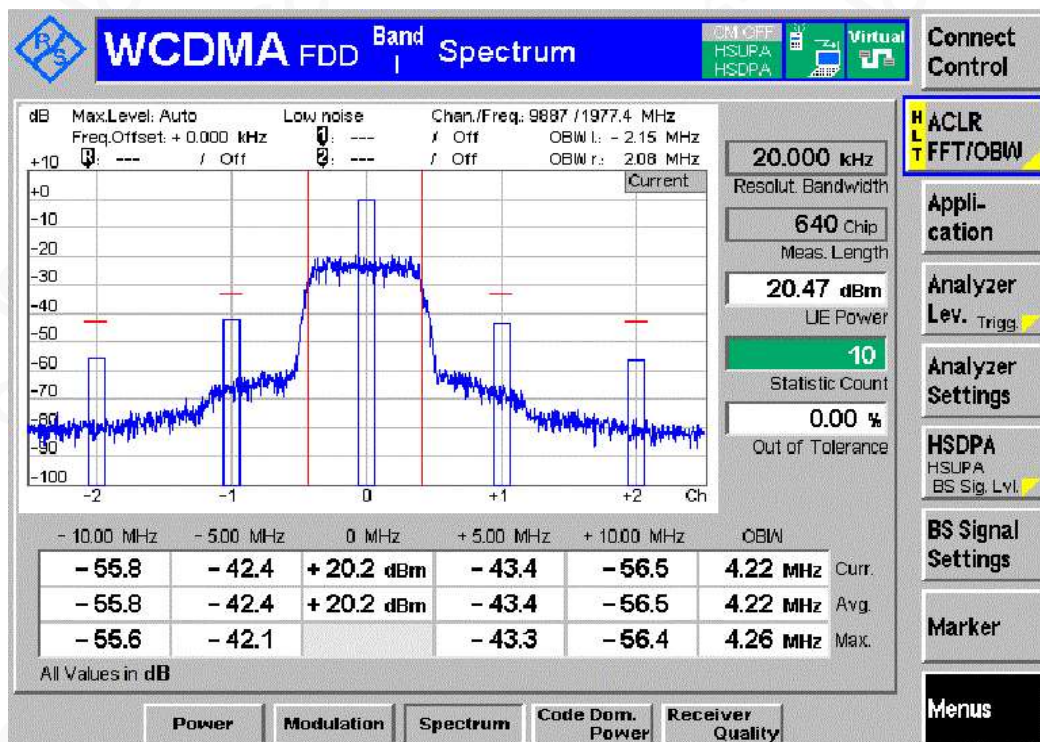


#### Sub-test 5

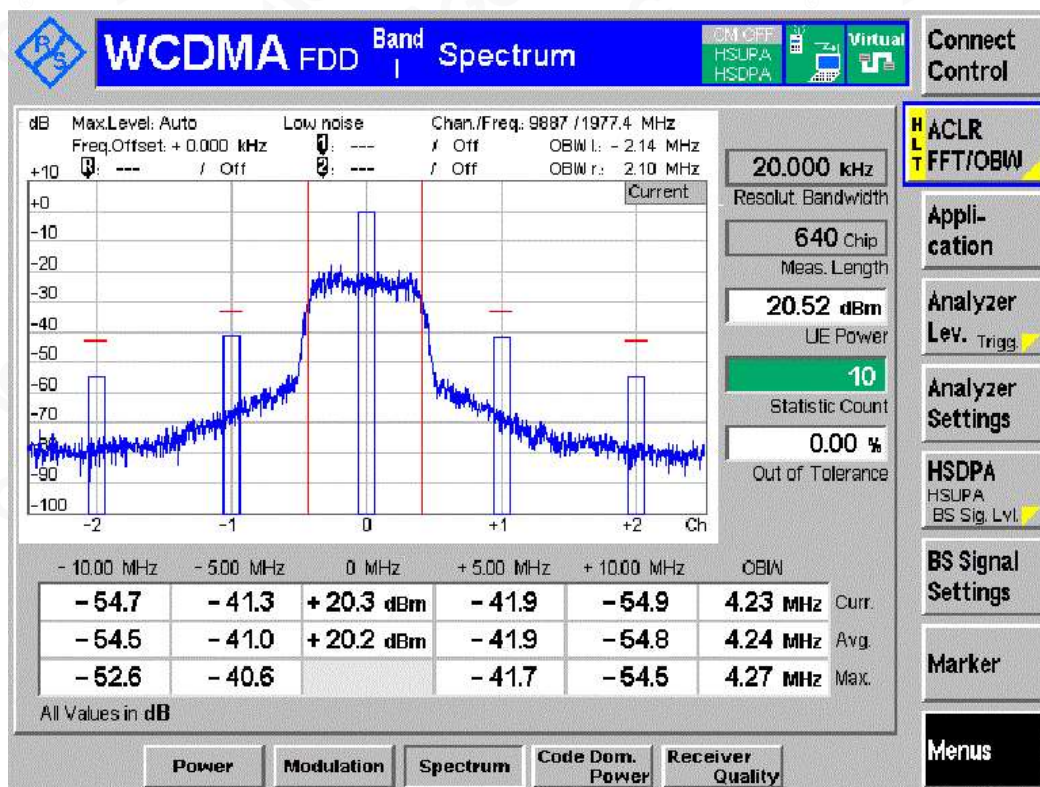




Channel HCH  
Sub-test 1

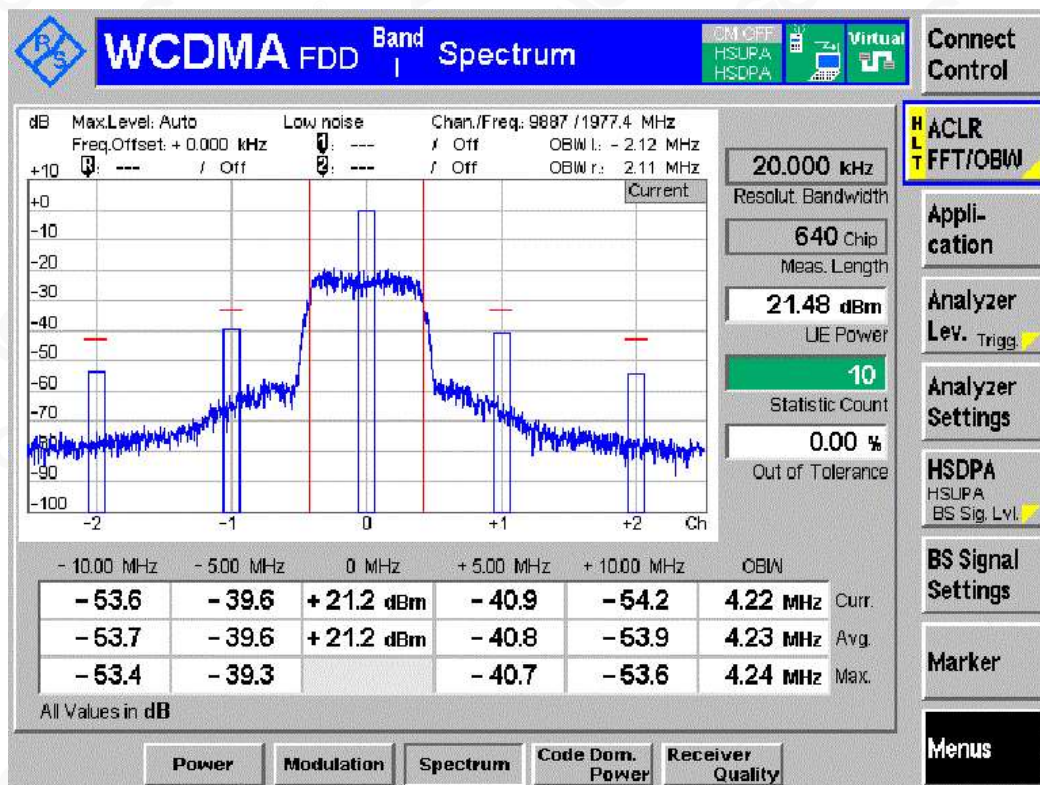


Sub-test 2

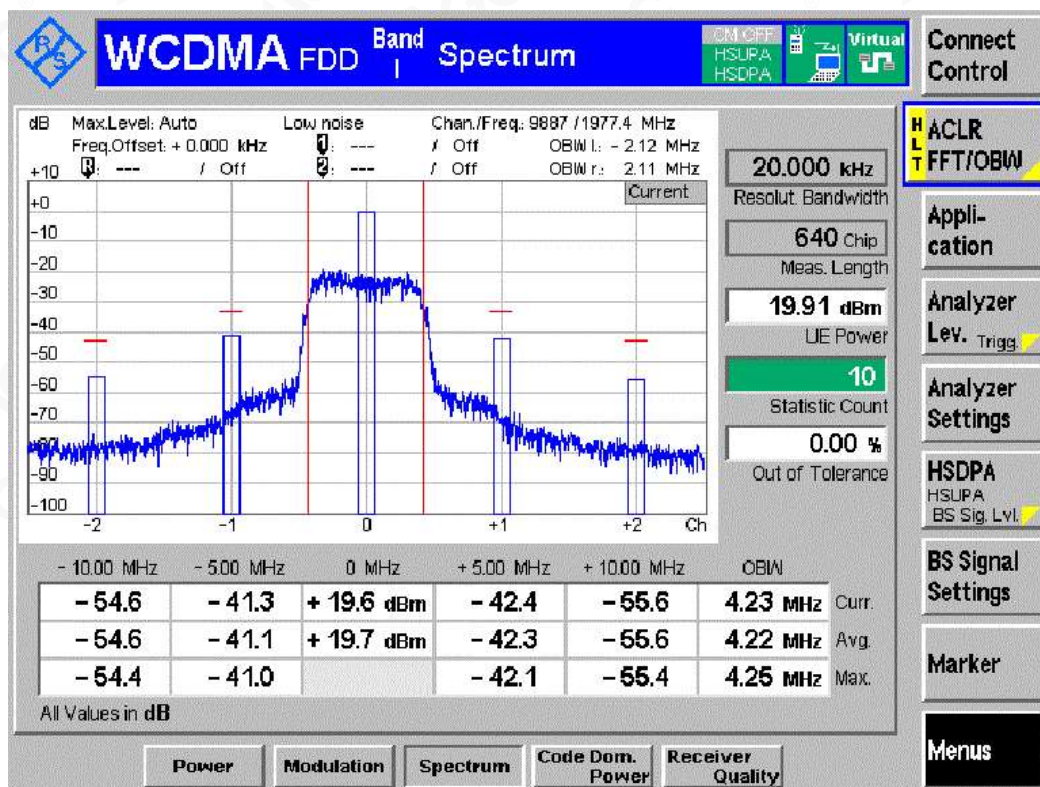




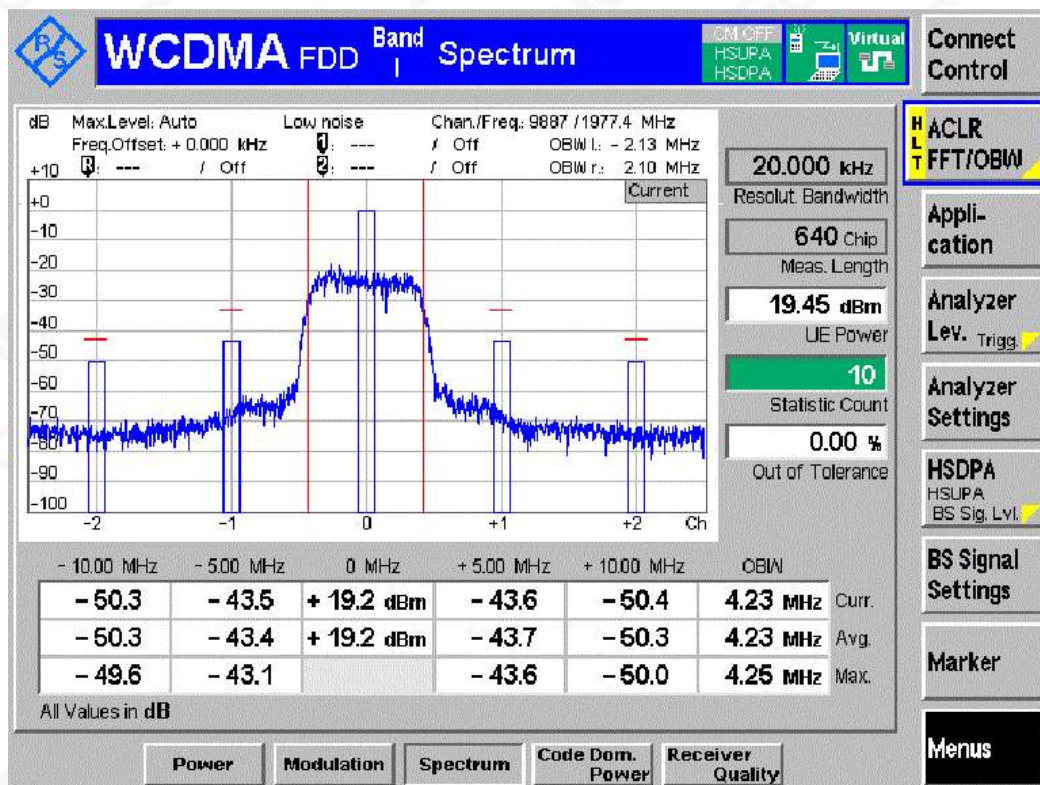
### Sub-test 3



### Sub-test 4



Sub-test 5



BAND VIII

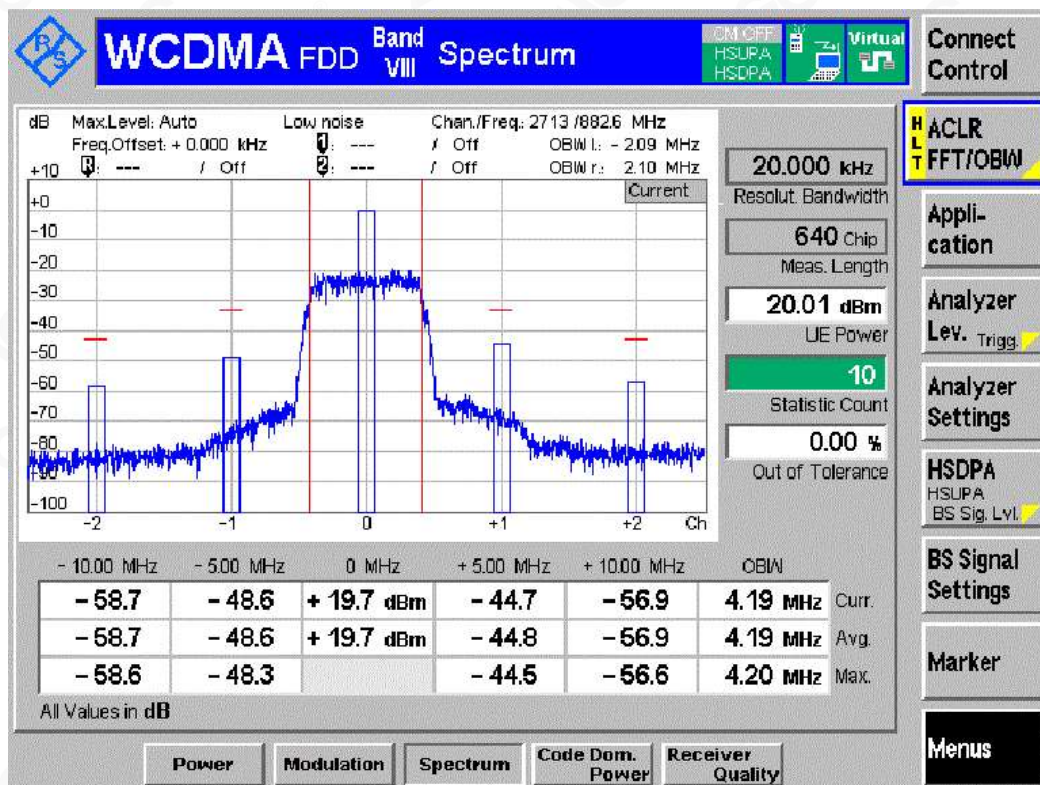
TNPN

Channel LCH

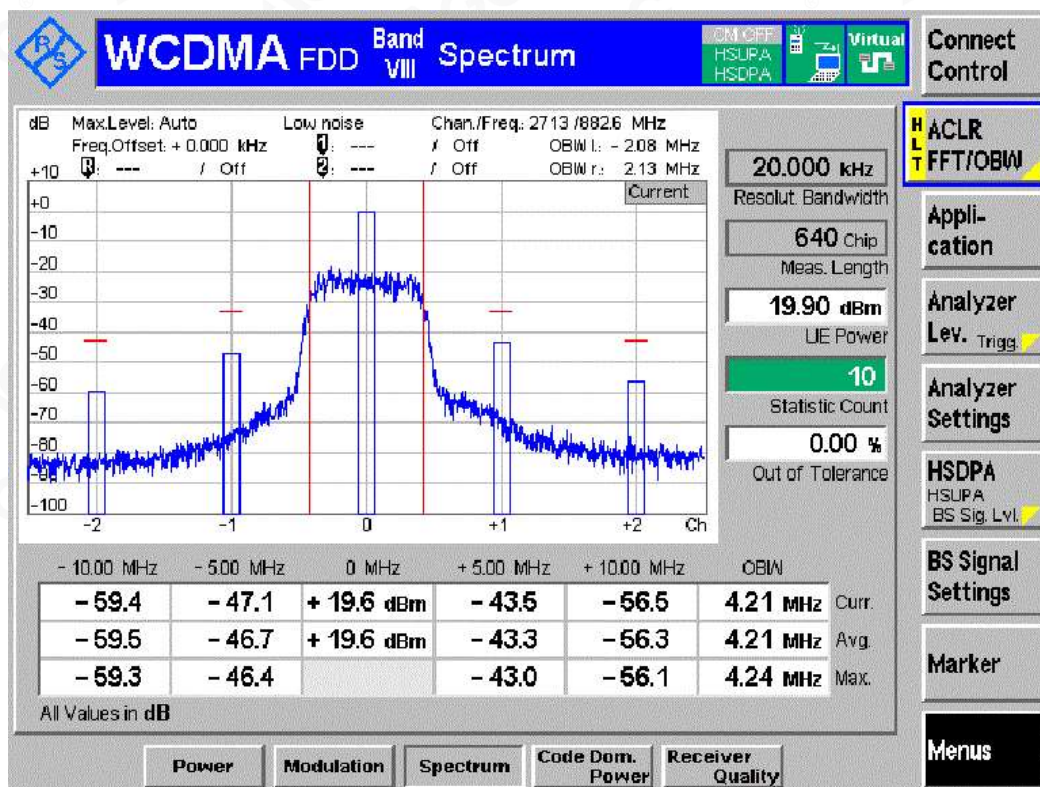




## Sub-test 1

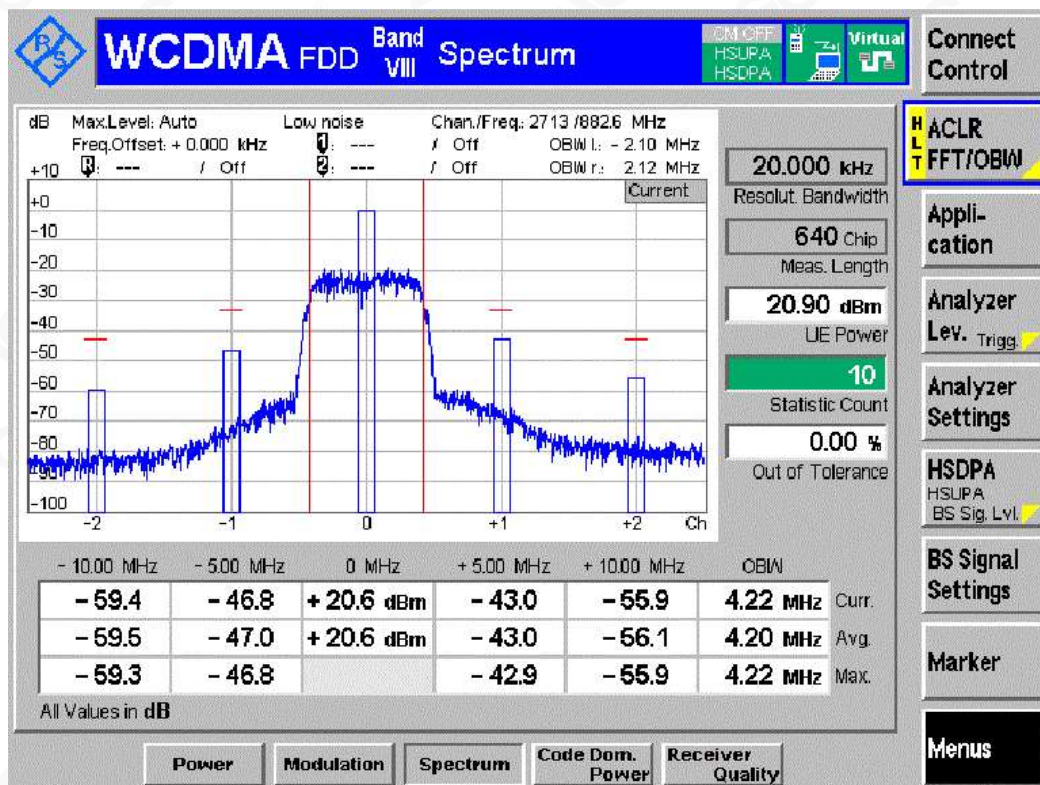


## Sub-test 2

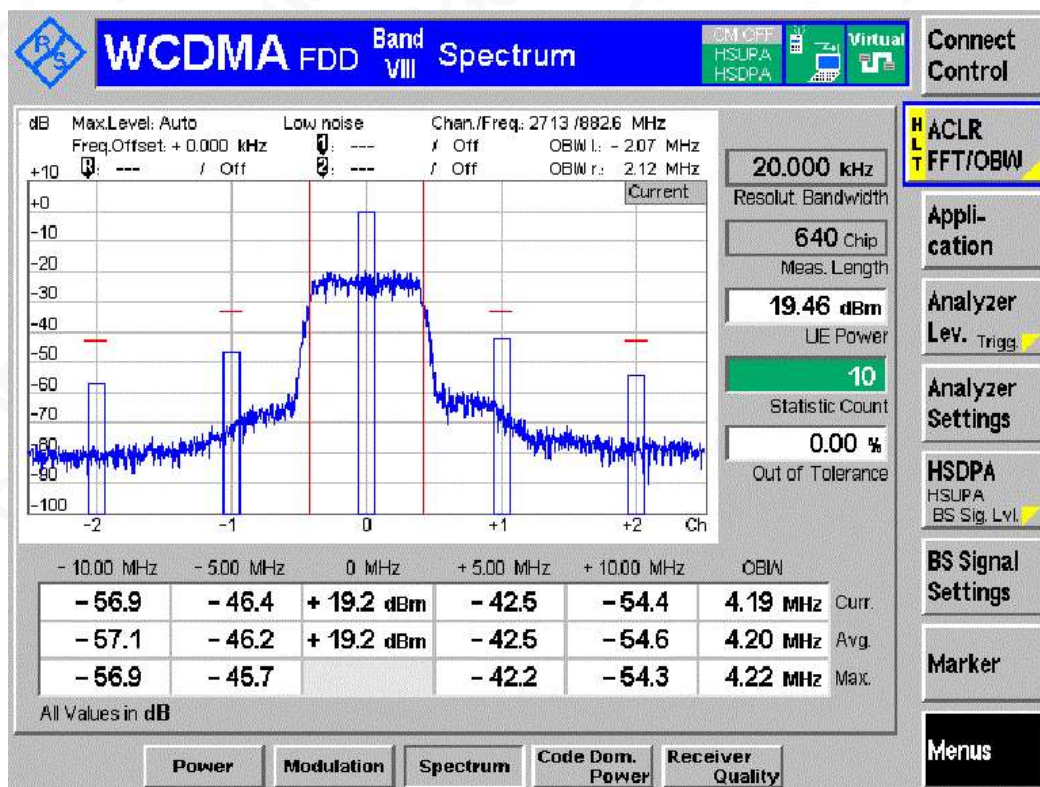




### Sub-test 3

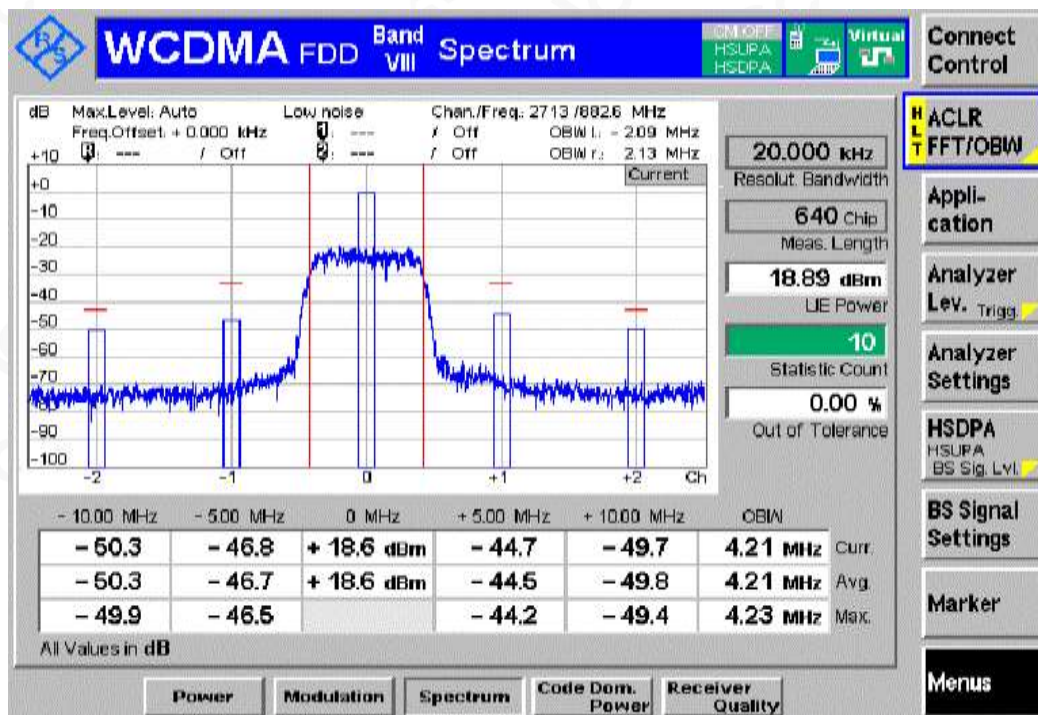


### Sub-test 4



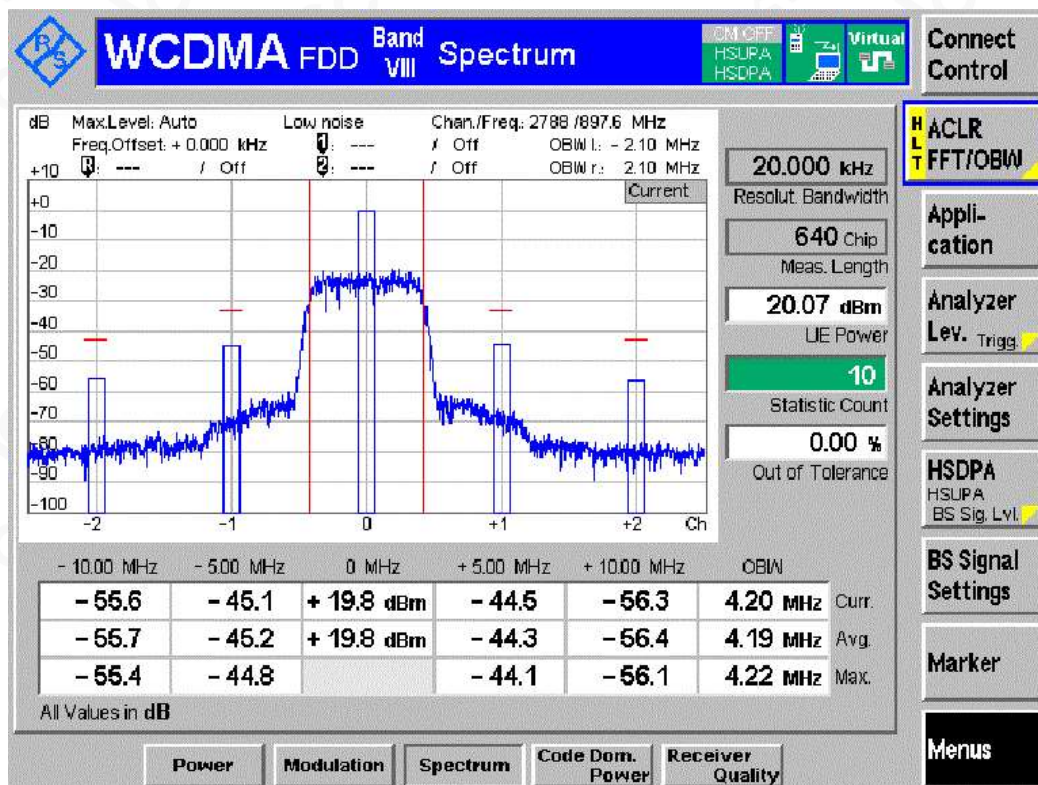


# Sub-test 5



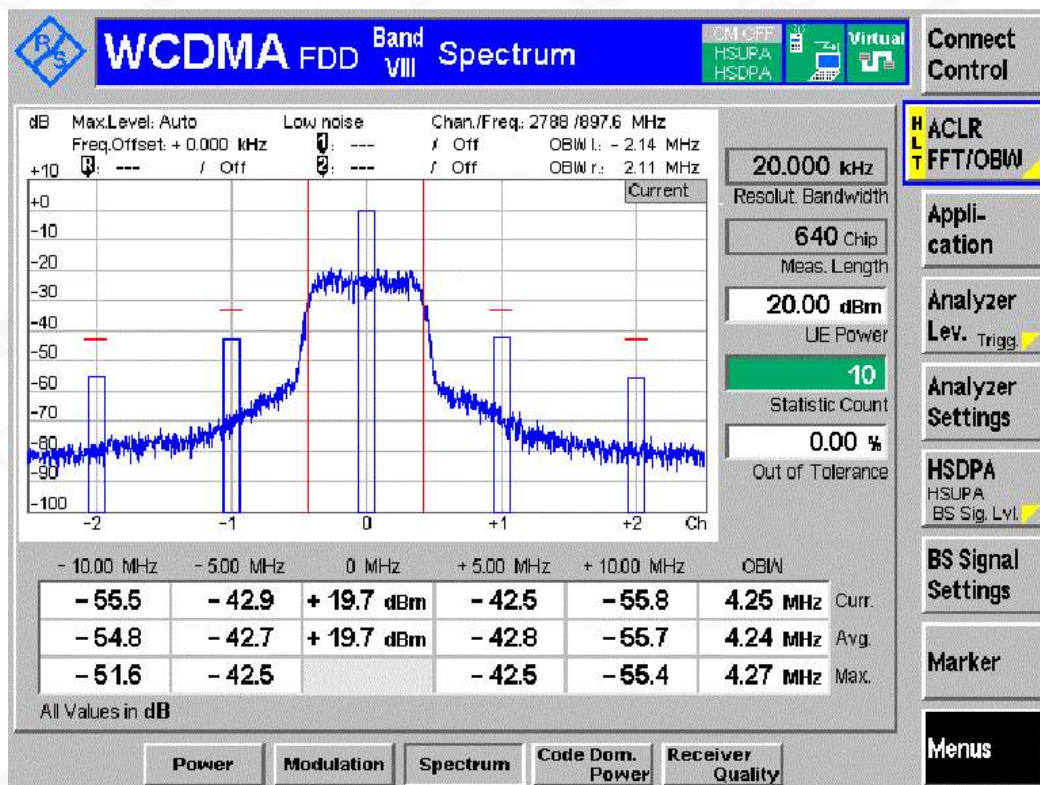
## Channel MCH

# Sub-test 1

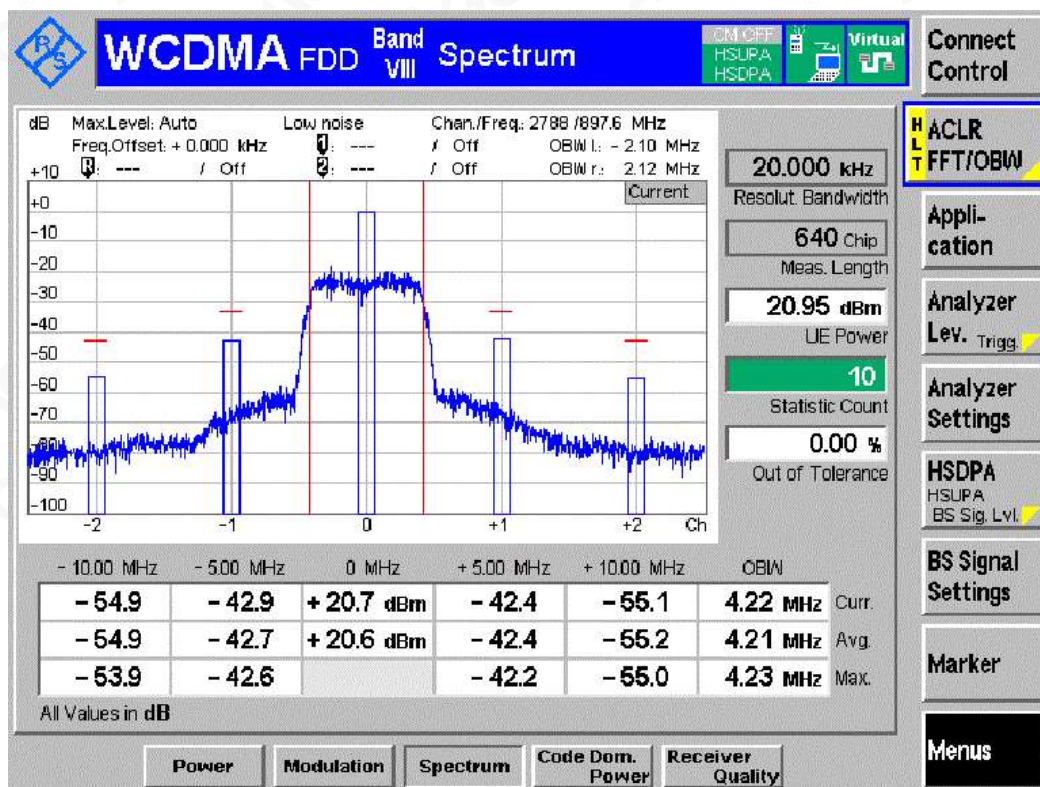




### Sub-test 2

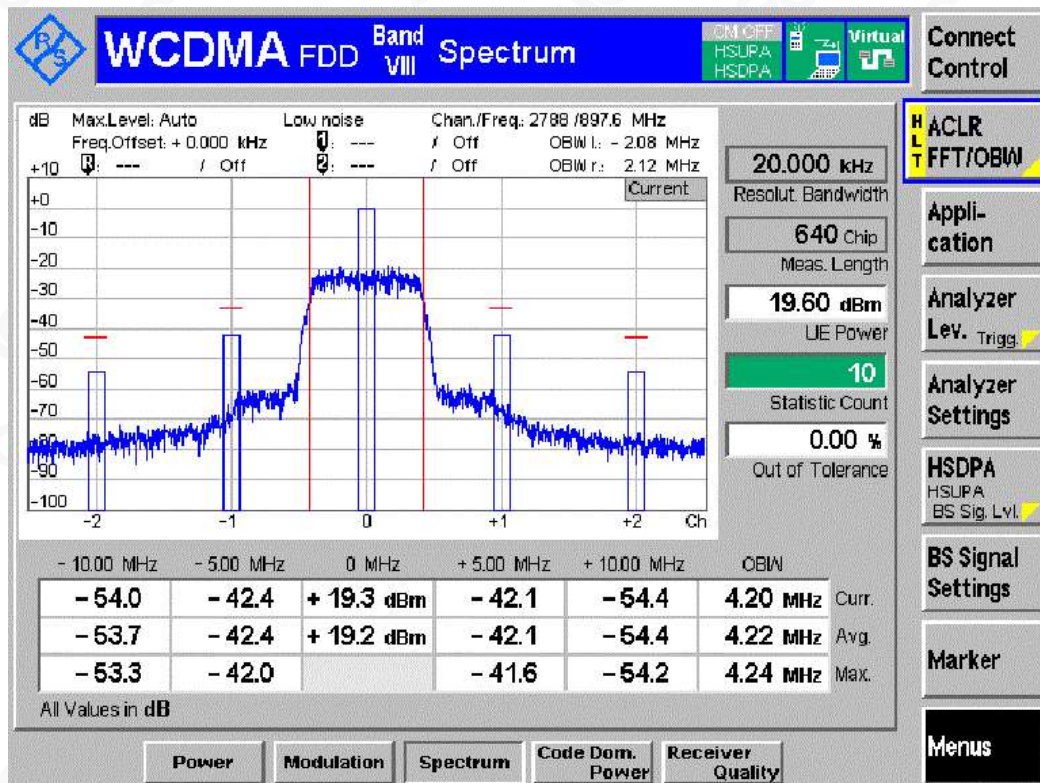


### Sub-test 3

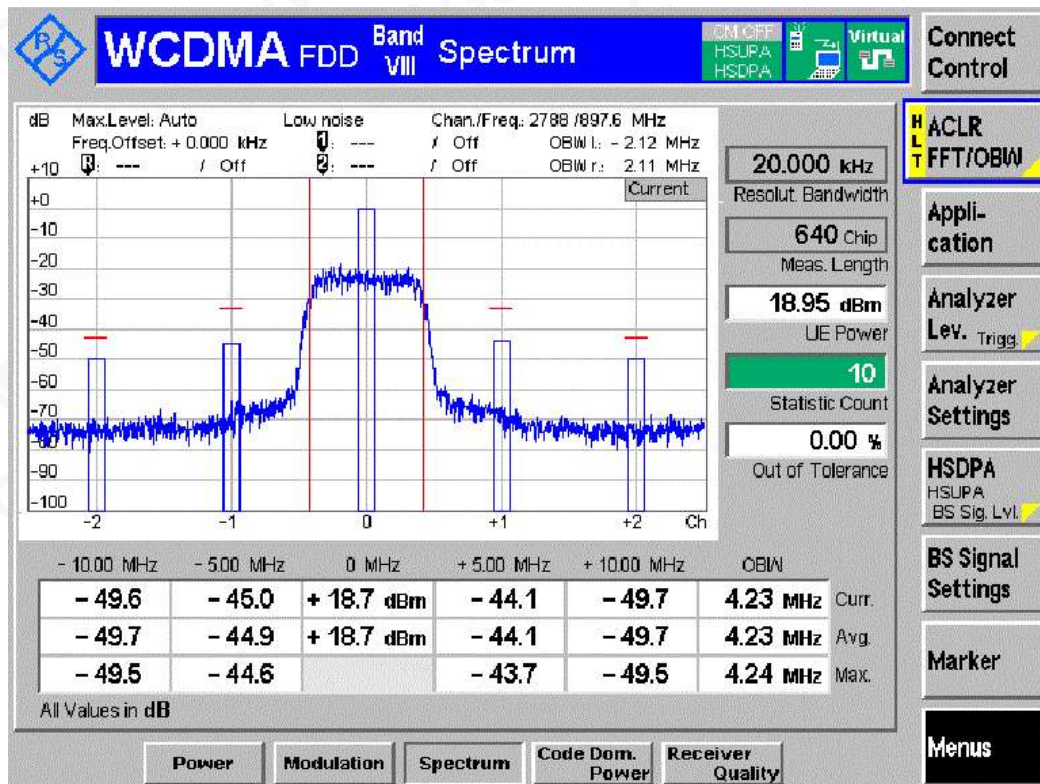




#### Sub-test 4



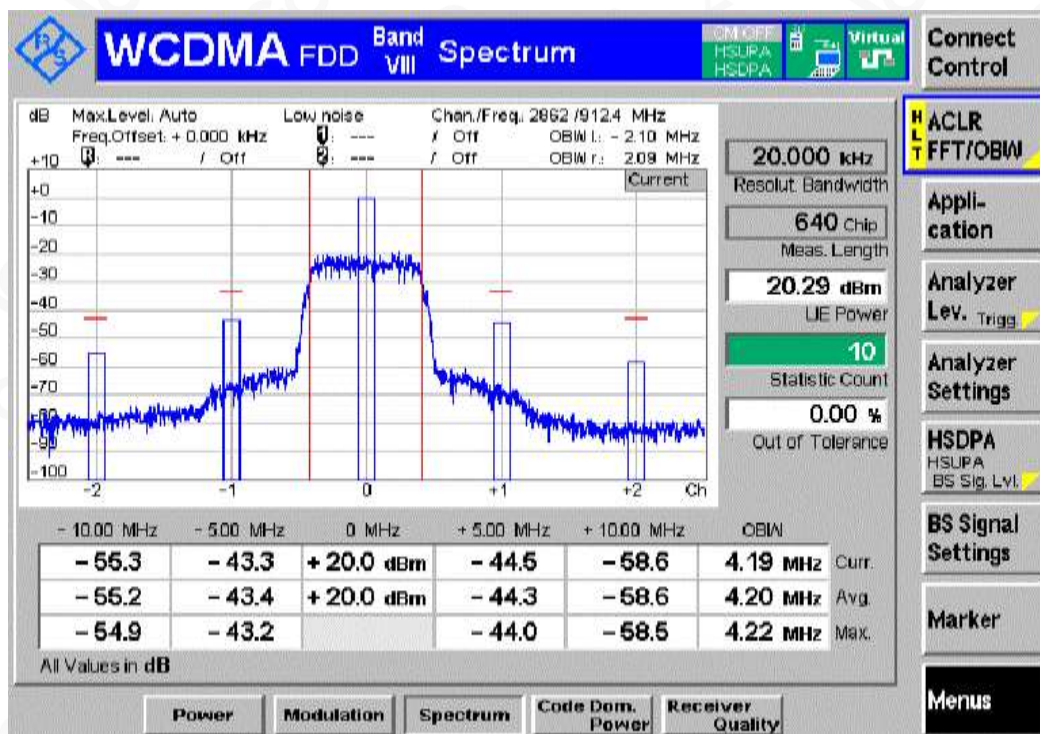
#### Sub-test 5



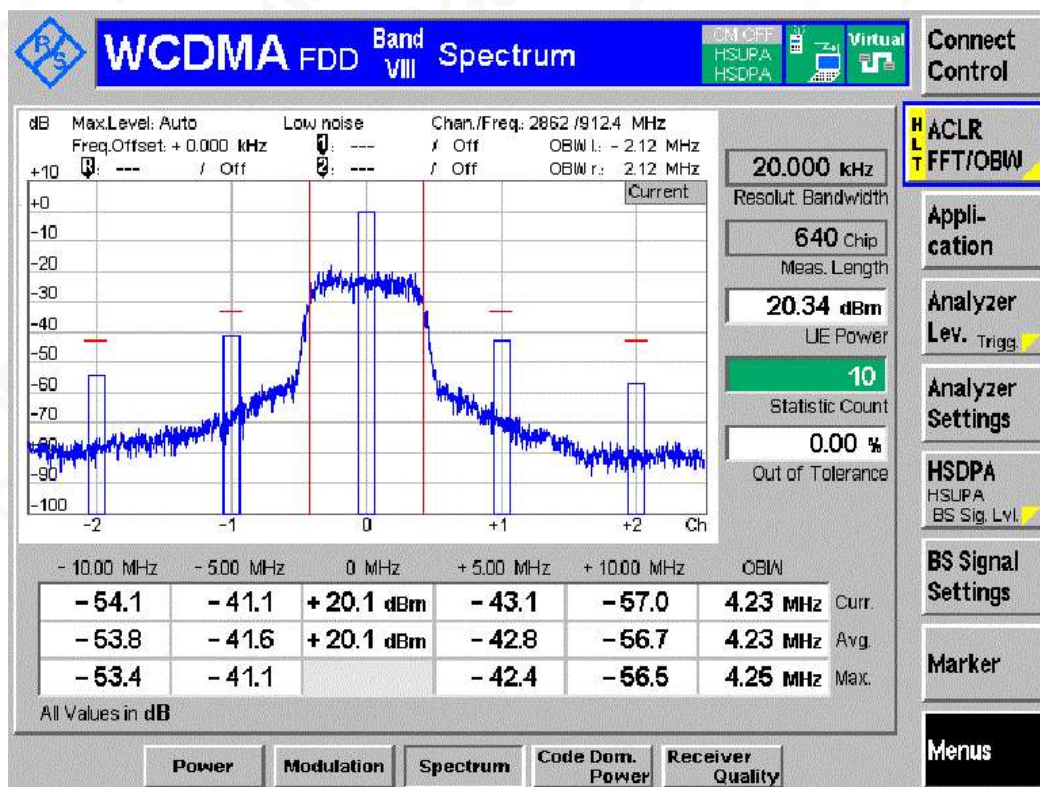


Channel HCH

Sub-test 1

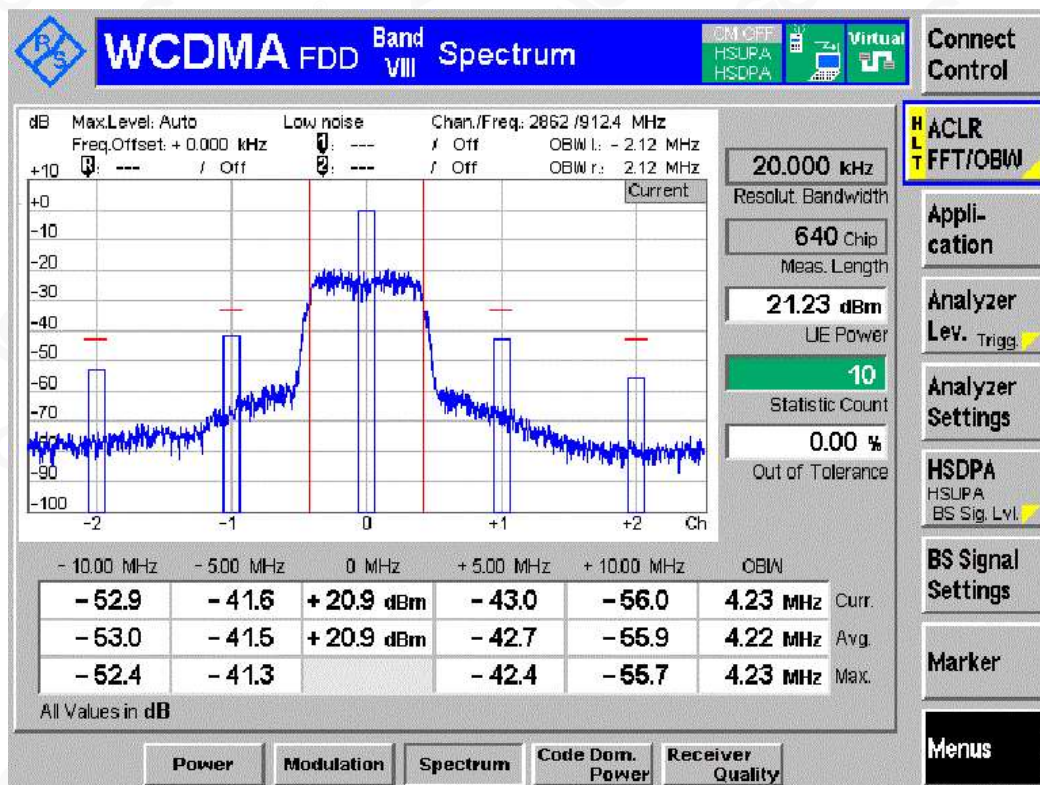


Sub-test 2

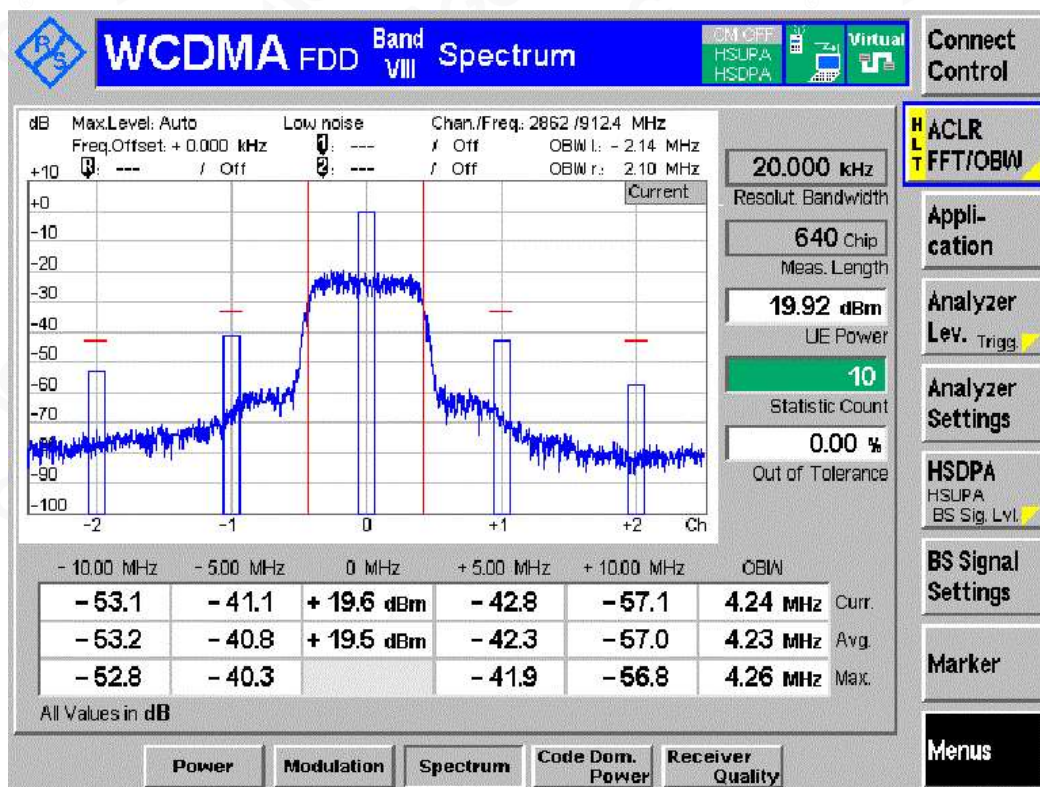




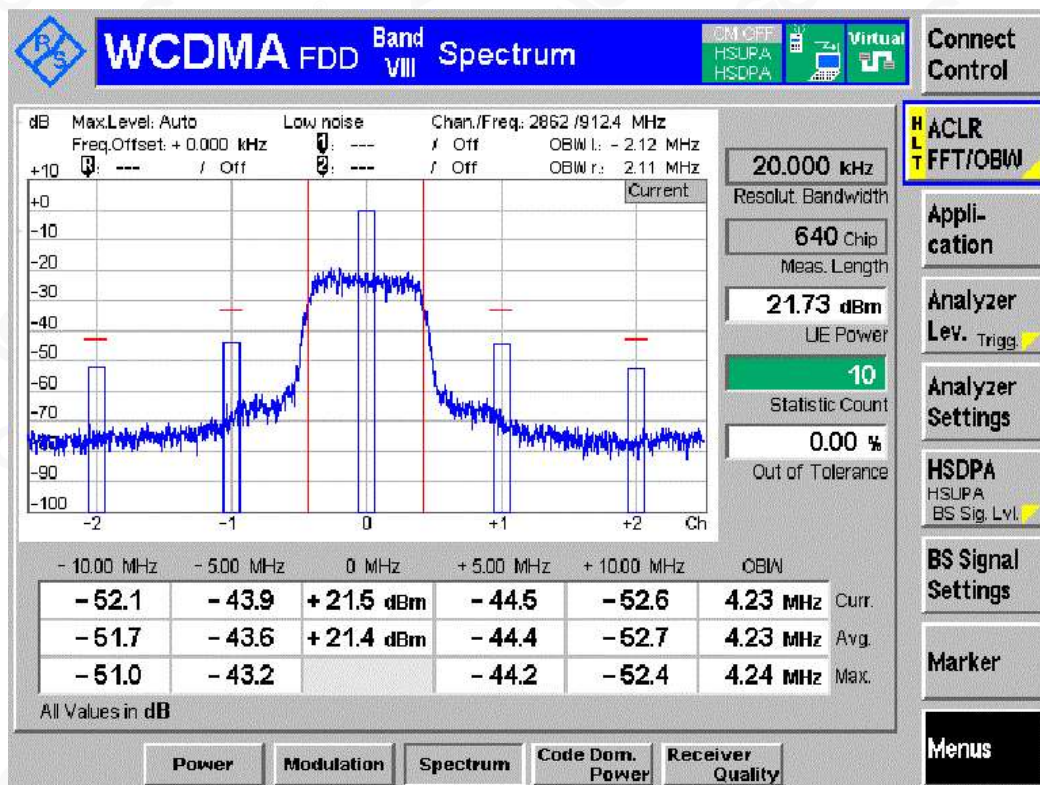
### Sub-test 3



### Sub-test 4



Sub-test 5





## 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	100 kHz	-57	-59.969	-60.446	-60.262	Pass
1 GHz ≤f ≤ 12.75 GHz	1 MHz	-47	-48.544	-48.497	-48.405	Pass
791 MHz ≤f ≤ 821 MHz	3.84 MHz	-60	-65.366	-65.335	-65.392	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-65.844	-65.952	-65.927	Pass
925 MHz ≤f ≤ 935 MHz	100 kHz	-67	-70.37	-69.971	-70	Pass
935 MHz < f ≤ 960 MHz	100 kHz	-79	-85.674	-85.162	-85.493	Pass
1805MHz ≤f ≤ 1880MHz	100 kHz	-60	-79.794	-79.853	-79.965	Pass
1920MHz ≤f ≤ 1980MHz	3.84 MHz	-60	-64.698	-75.264	-64.6	Pass
2 110 MHz ≤f ≤ 2 170 MHz	3.84 MHz	-60	-66.364	-66.366	-66.372	Pass
2 585 MHz ≤f ≤ 2 690 MHz	3.84 MHz	-60	-64.807	-64.793	-64.801	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	-60.466	-60.018	-60.101	Pass
1 GHz ≤f ≤12.75 GHz	1 MHz	-47	-48.494	-48.573	-48.417	Pass
791 MHz ≤f ≤821 MHz	3.84 MHz	-60	-65.317	-65.376	-65.332	Pass
880 MHz ≤f < 915 MHz	3.84 MHz	-60	-66.55	-66.518	-66.605	Pass
921 MHz ≤f ≤925 MHz	100 kHz	-60	-65.922	-65.861	-66.09	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-74.942	-75.483	-75.176	Pass
925 MHz ≤f ≤935 MHz	3.84 MHz	-60	-64.584	-64.554	-64.58	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-85.45	-85.418	-85.499	Pass
1805MHz ≤f ≤1880MHz	3.84 MHz	-60	-65.069	-65.161	-65.161	Pass
2 110 MHz ≤f ≤2 170 MHz	3.84 MHz	-60	-66.282	-66.355	-66.315	Pass
2 585 MHz ≤f ≤2 690 MHz	3.84 MHz	-60	-64.79	-64.794	-64.794	Pass

### BAND I

### Channel LCH



30MHz~1GHz



1GHz~12.75GHz





791MHZ~821MHZ



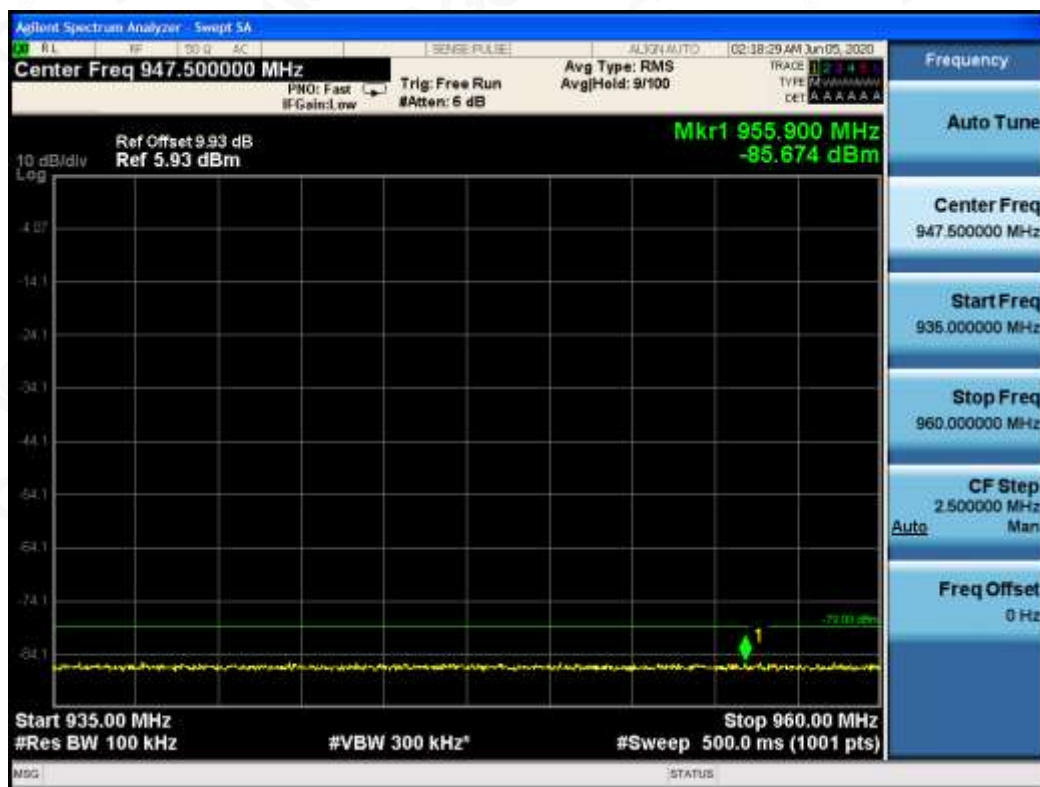
921MHZ~925MHZ



925MHZ~935MHZ



935MHZ~960MHZ





1805MHZ~1880MHZ



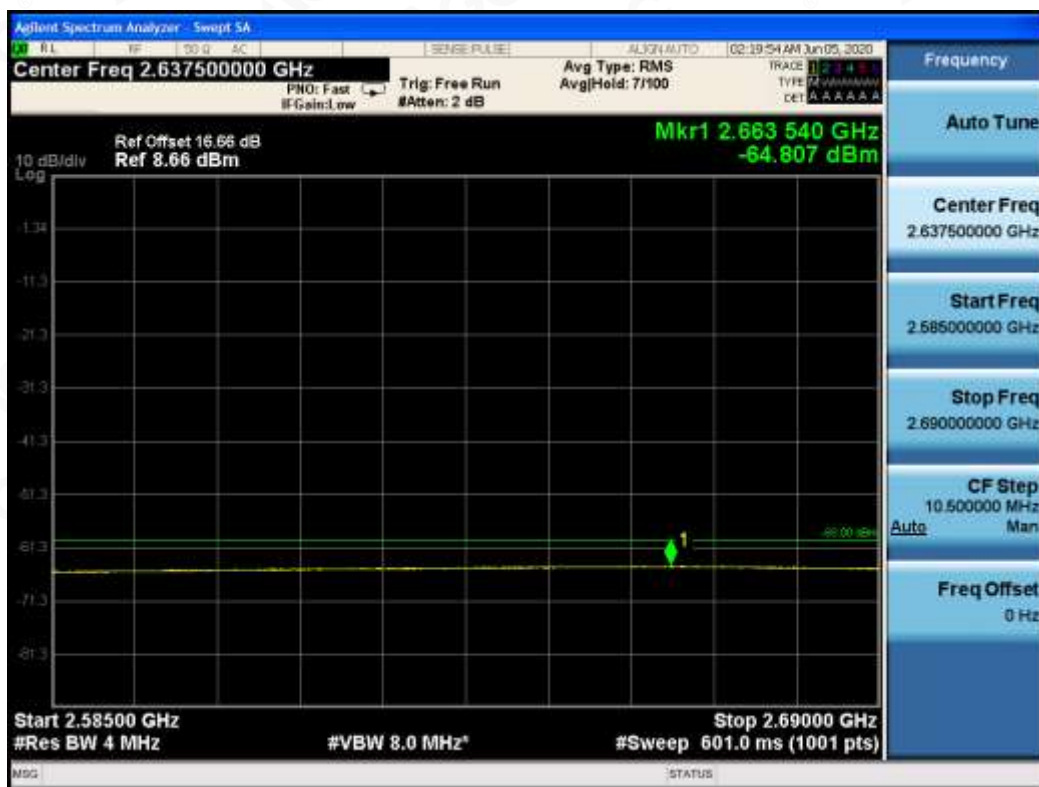
1920MHZ~1980MHZ



2110MHZ~2170MHZ

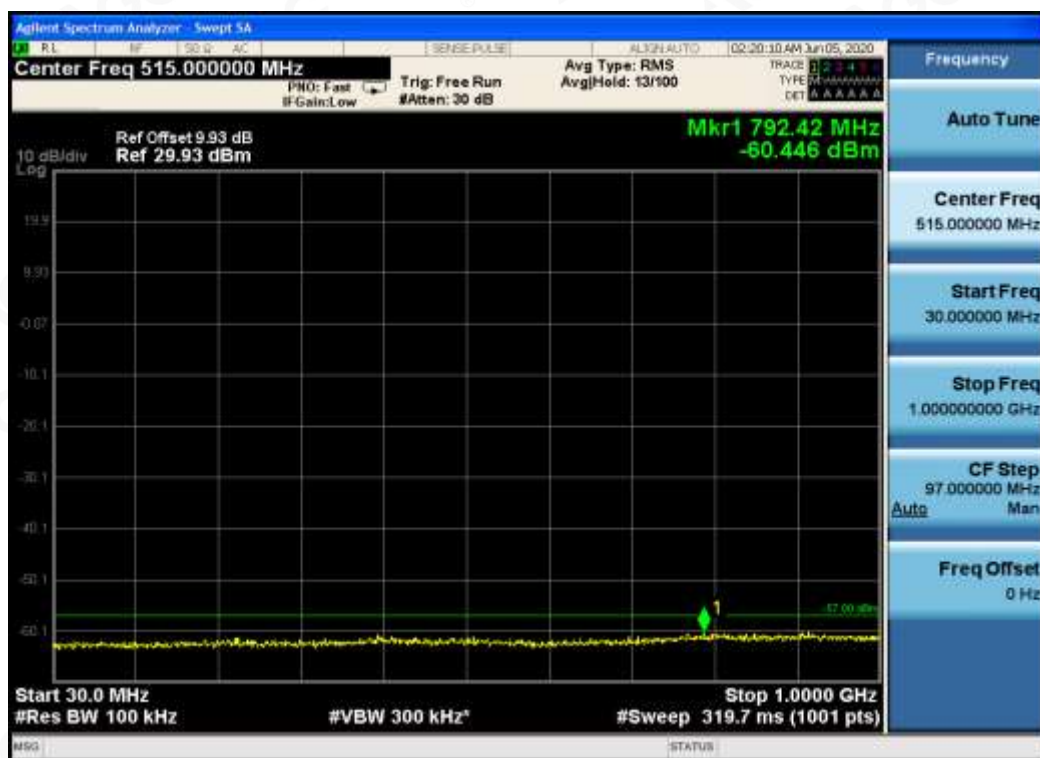


2585MHZ~2690MHZ





Channel MCH  
30MHz~1GHz



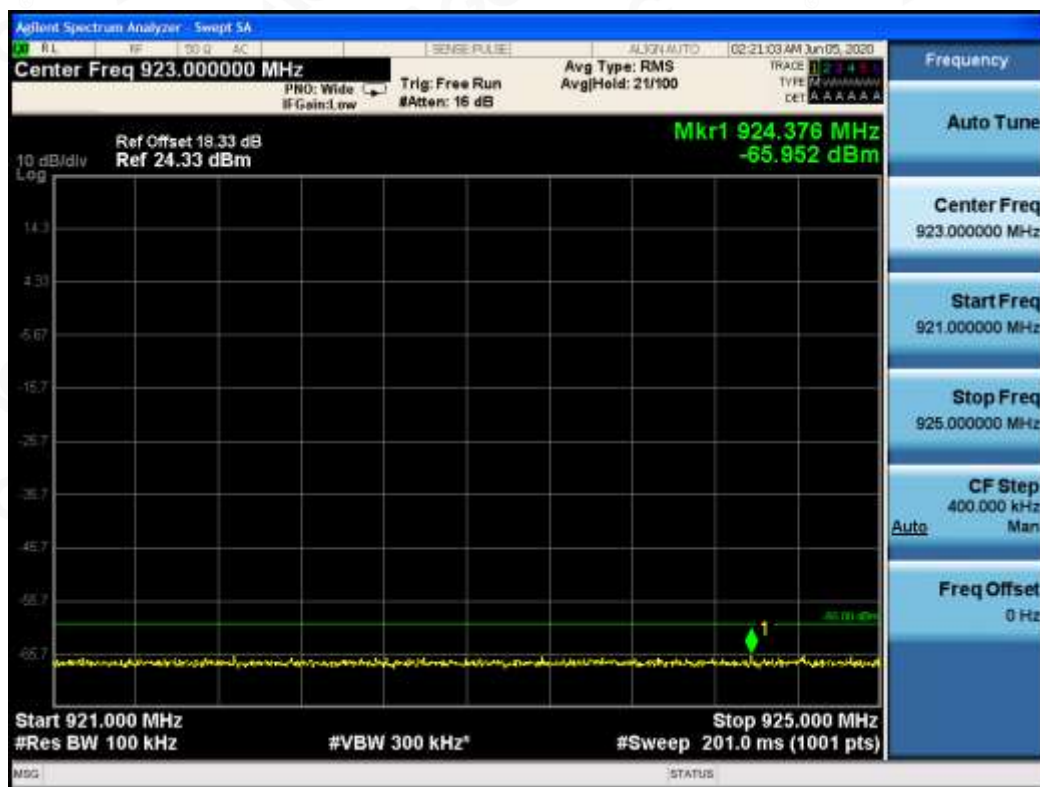
1GHz~12.75GHz



791MHZ~821MHZ



921MHZ~925MHZ





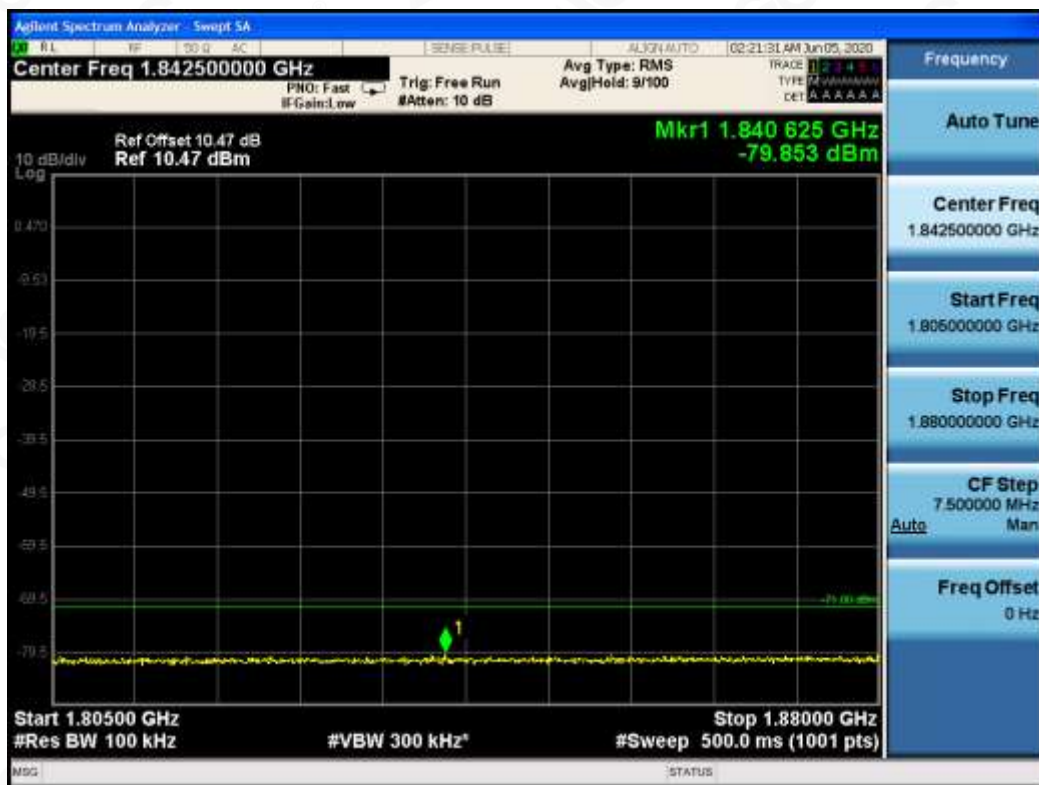
925MHZ~935MHZ



935MHZ~960MHZ



1805MHZ~1880MHZ



1920MHZ~1980MHZ





2110MHZ~2170MHZ



2585MHZ~2690MHZ



**Channel HCH**  
**30MHz~1GHz**



**1GHz~12.75GHz**

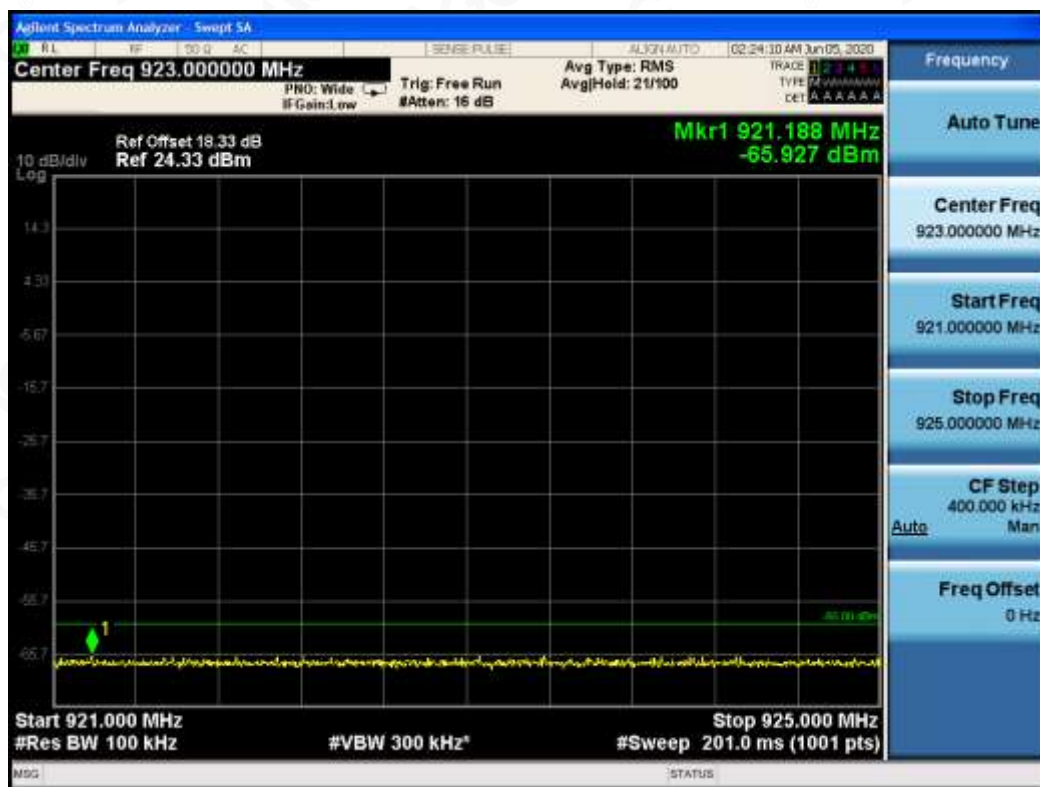




791MHZ~821MHZ



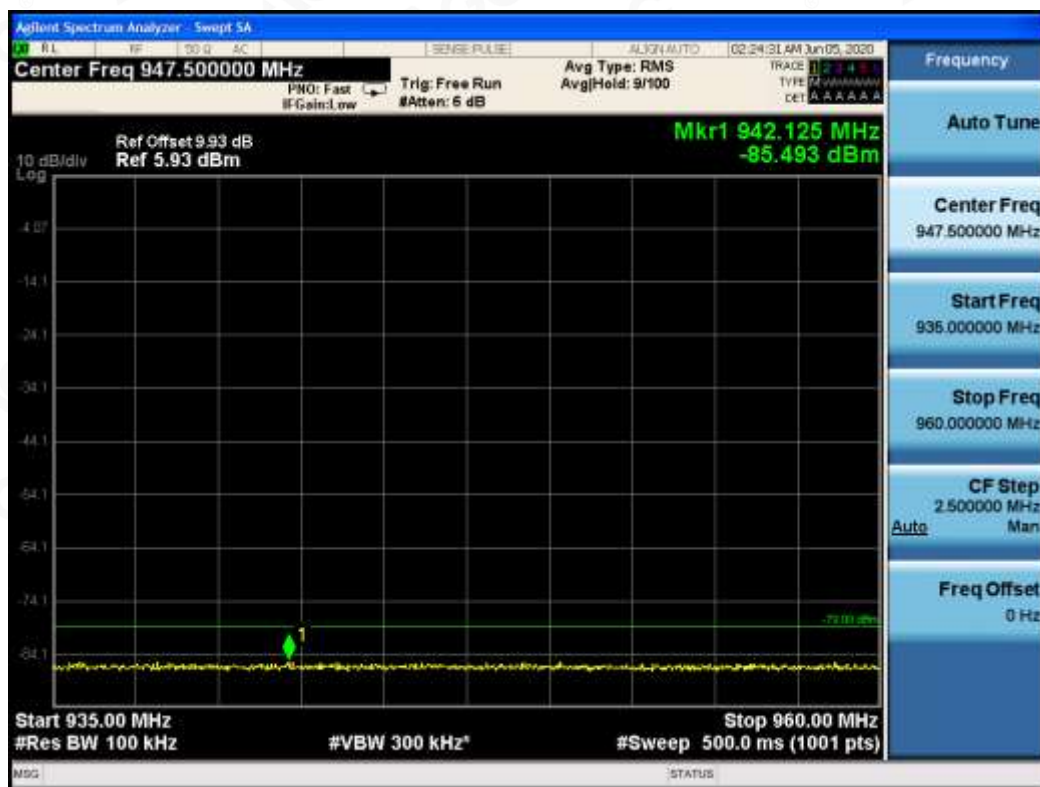
921MHZ~925MHZ



925MHZ~935MHZ

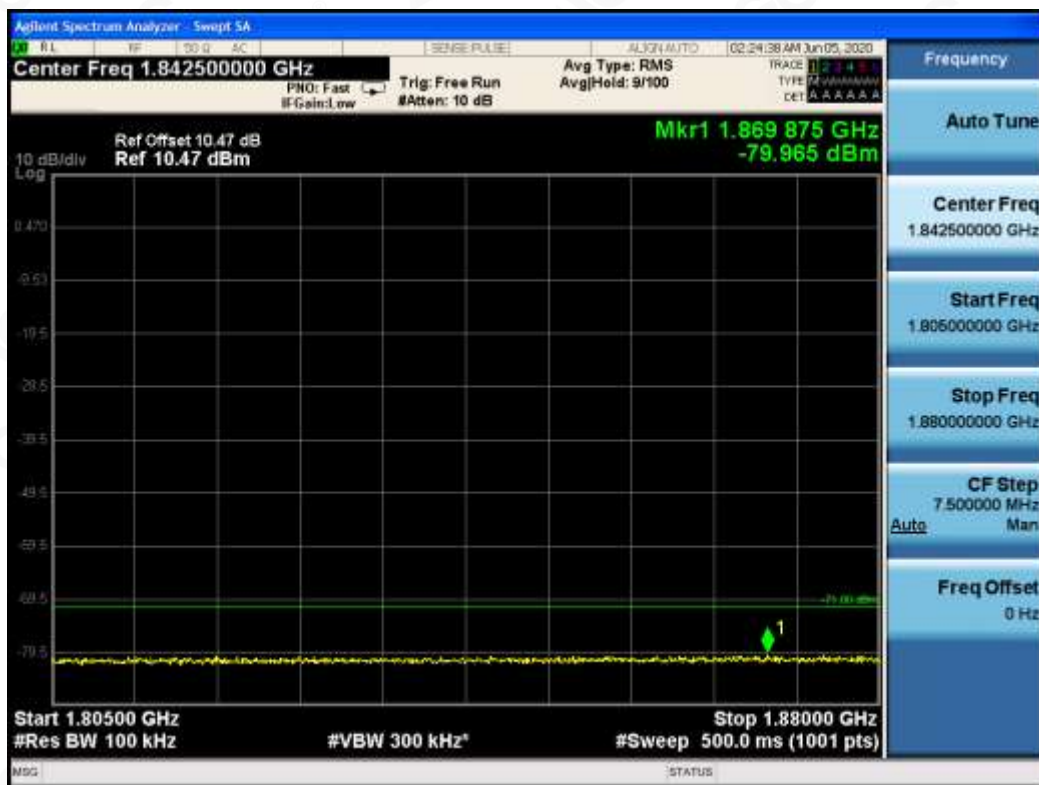


935MHZ~960MHZ





1805MHZ~1880MHZ



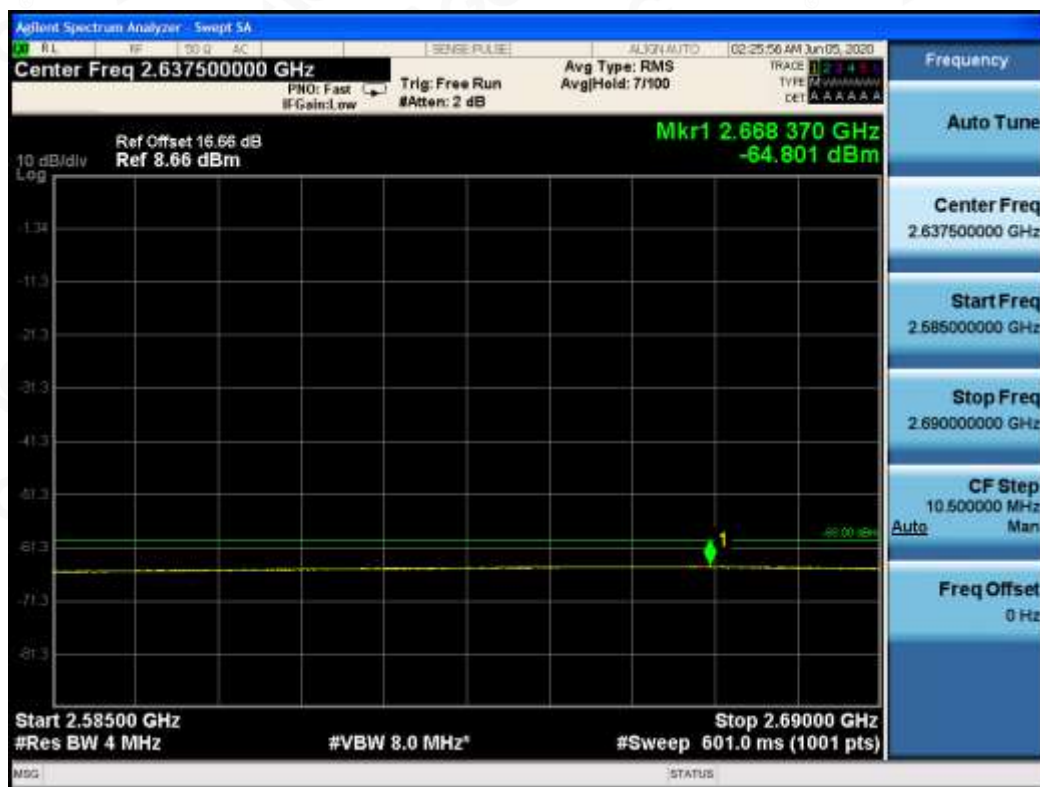
1920MHZ~1980MHZ



2110MHZ~2170MHZ

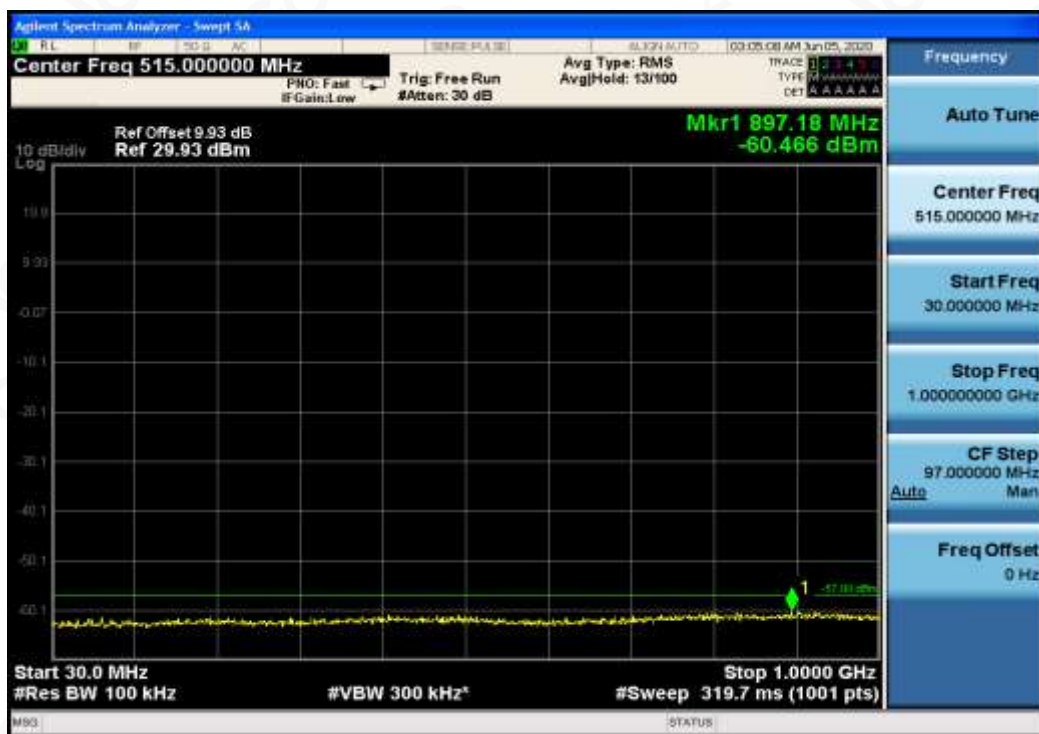


2585MHZ~2690MHZ





**BAND VIII**  
**Channel LCH**  
**30MHz~1GHz**



**1GHz~12.75GHz**



791MHZ~821MHZ



880MHZ~915MHZ

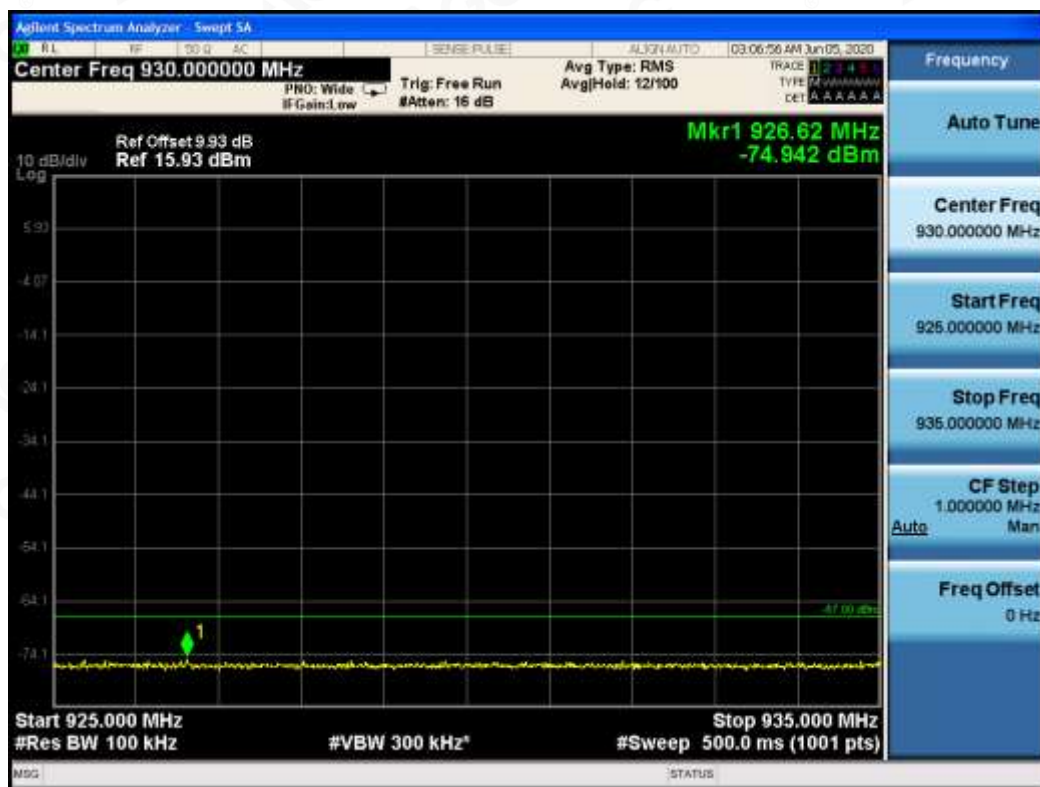




921MHZ~925MHZ



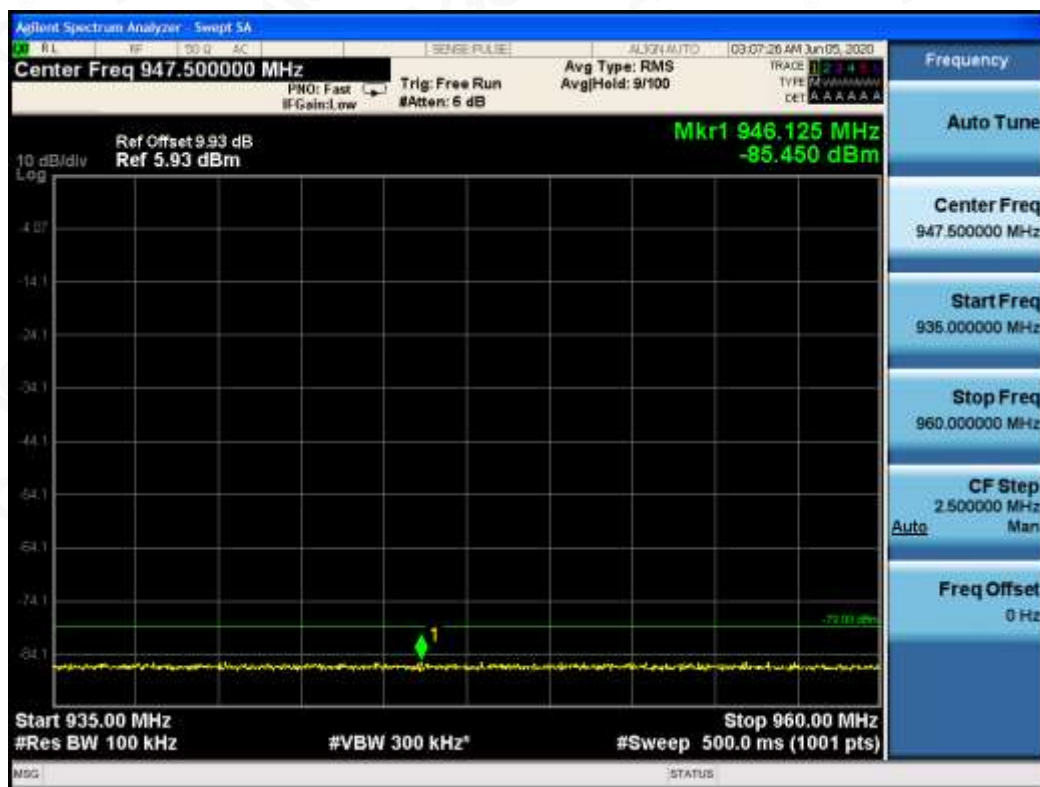
925MHZ~935MHZ



925MHZ~935MHZ



935MHZ~960MHZ





1805MHZ~1880MHZ



2110MHZ~2170MHZ



2585MHZ~2690MHZ



Channel MCH

30MHz~1GHz





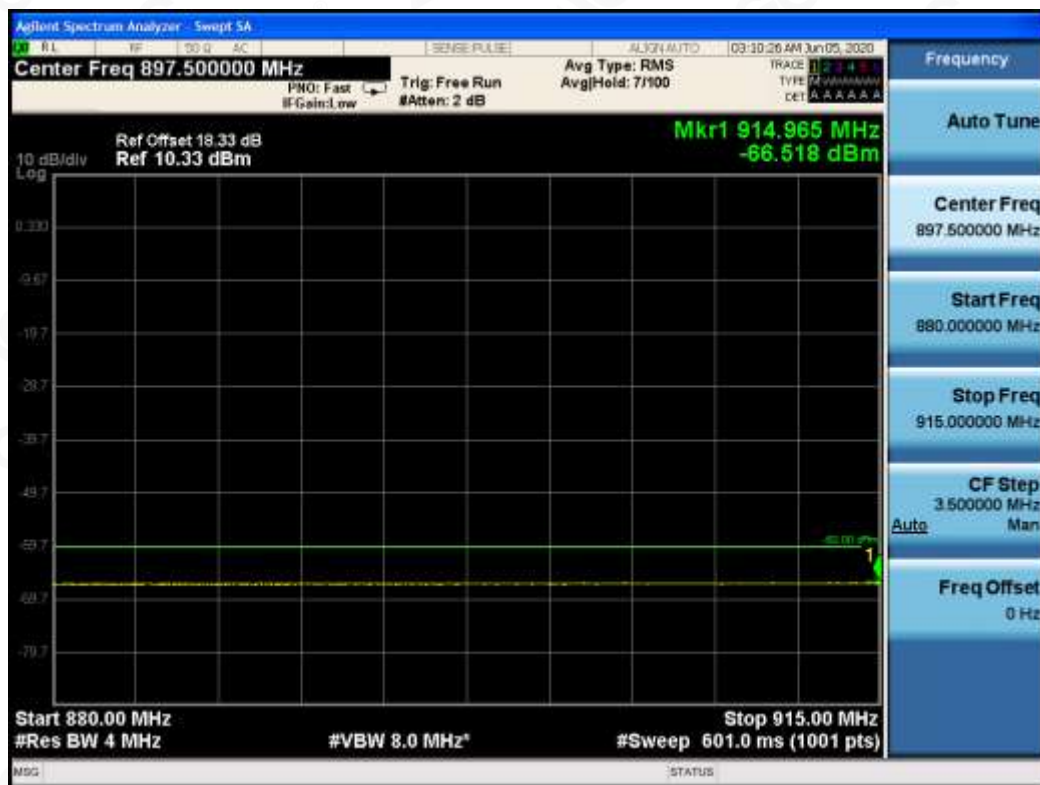
1GHZ~12.75GHZ



791MHz~821MHz



880MHZ~915MHZ



921MHZ~925MHZ





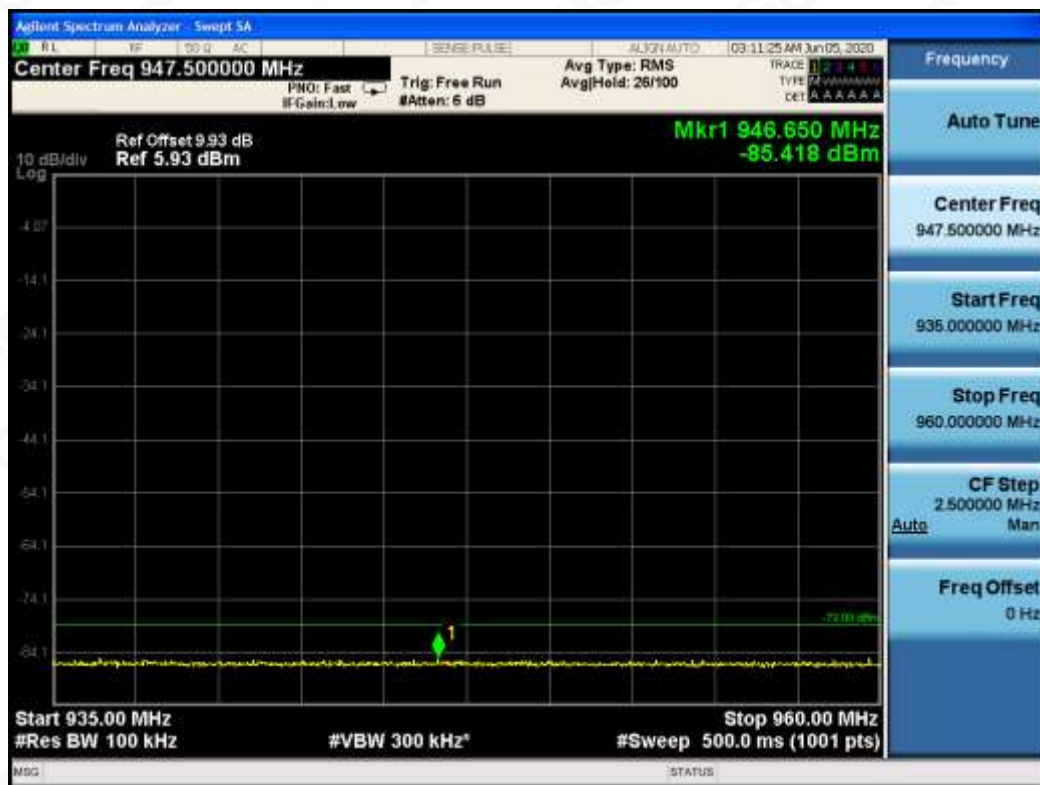
925MHZ~935MHZ



925MHZ~935MHZ



935MHZ~960MHZ



1805MHZ~1880MHZ





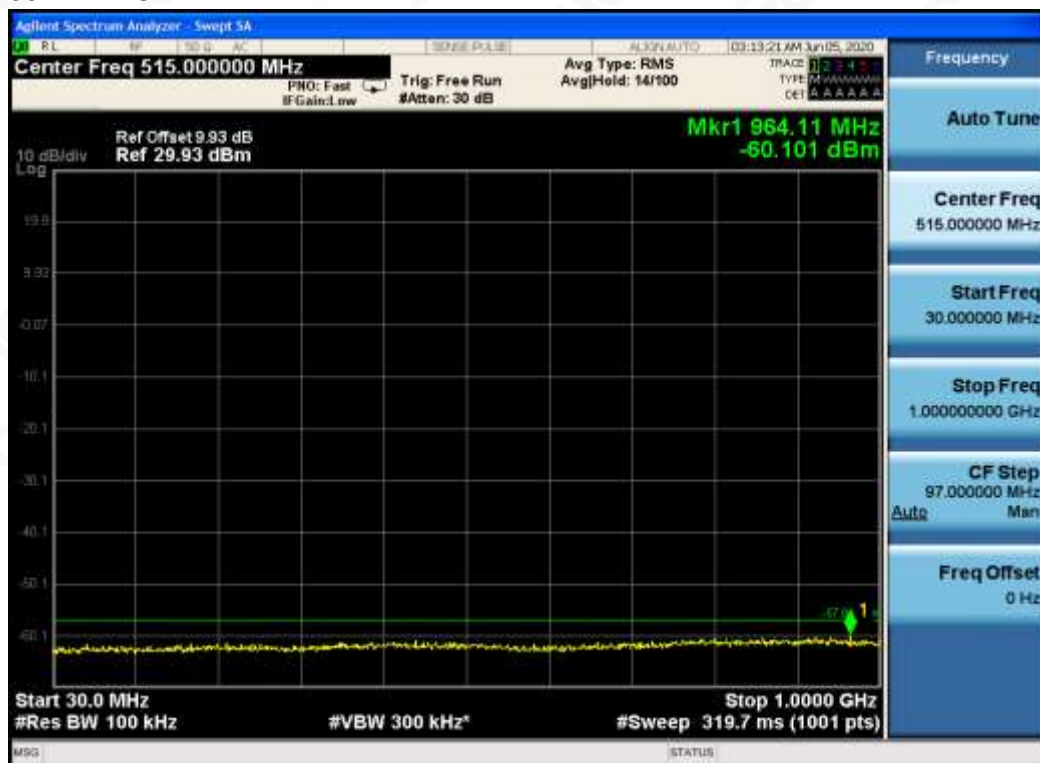
2110MHZ~2170MHZ



2585MHZ~2690MHZ



### Channel HCH 30MHz~1GHz



### 1GHz~12.75GHz





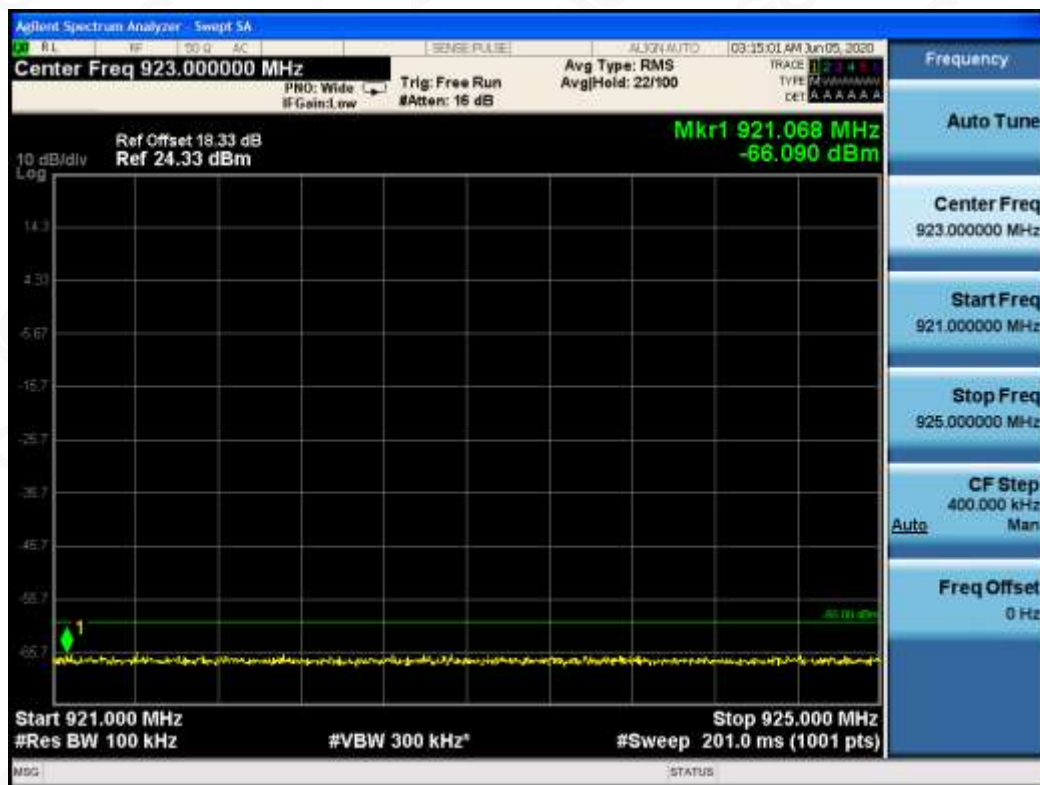
791MHZ~821MHZ



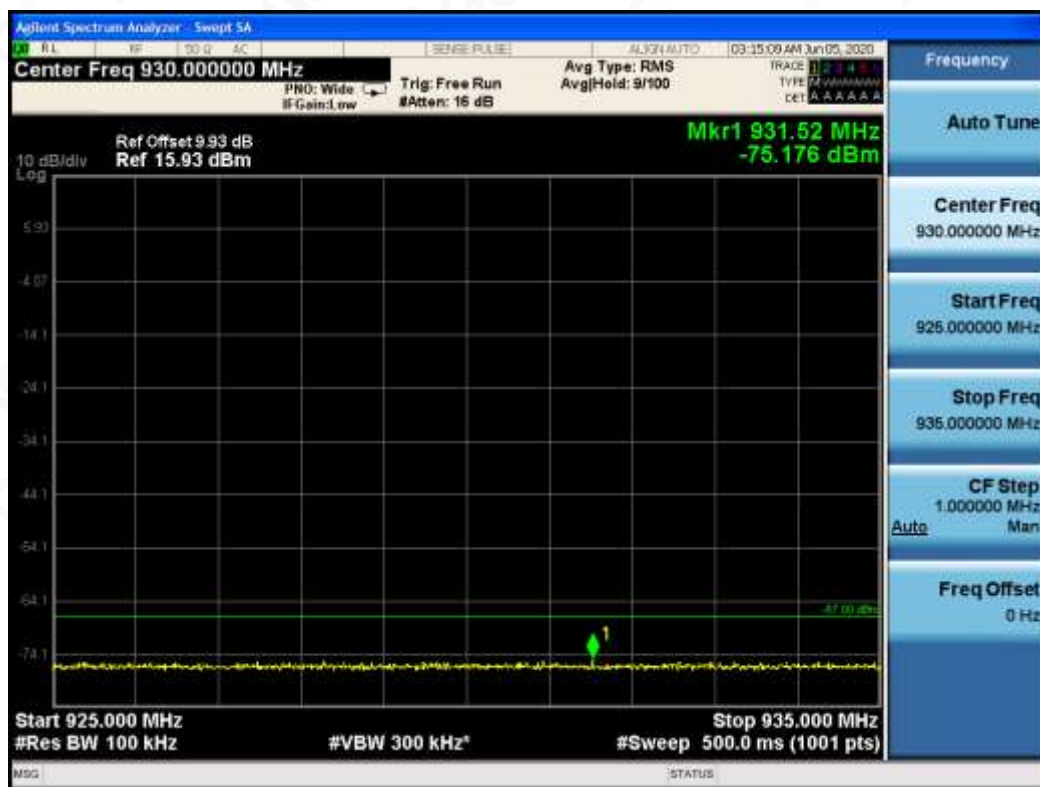
880MHZ~915MHZ



921MHZ~925MHZ



925MHZ~935MHZ

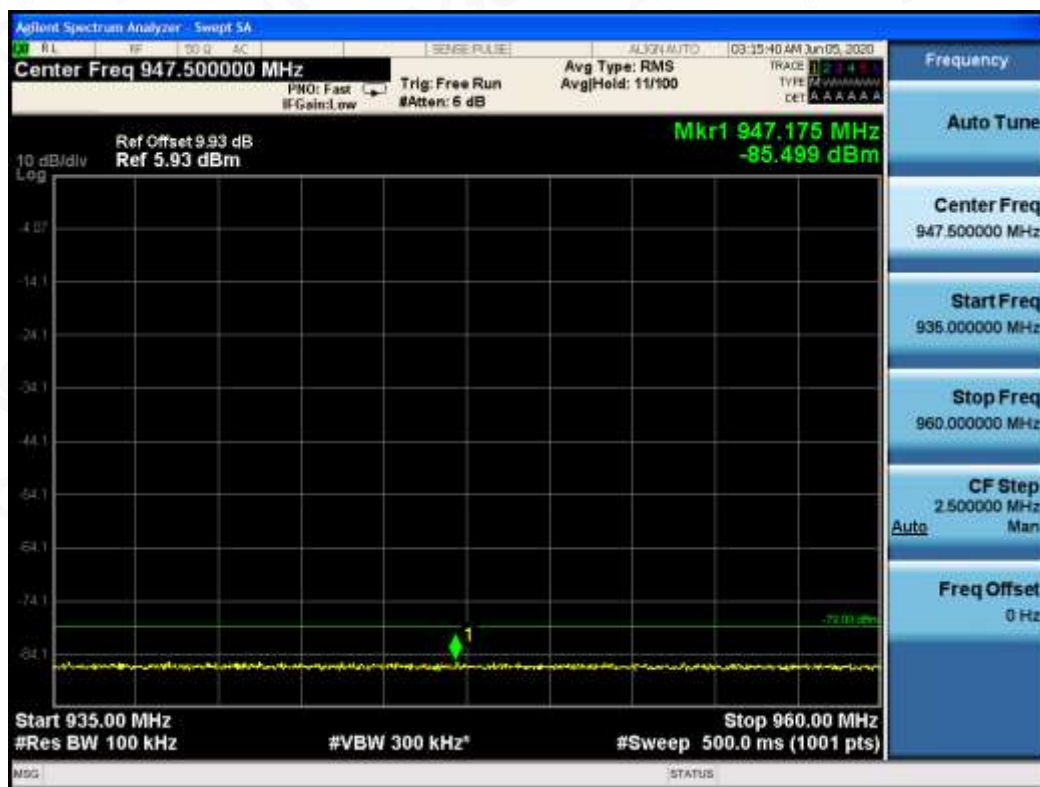




925MHZ~935MHZ



935MHZ~960MHZ



1805MHZ~1880MHZ



2110MHZ~2170MHZ





2585MHZ~2690MHZ



### 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 (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





## 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
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	$2102.4 \leq f \leq 2177.6$	$2095 \leq f \leq 2185$
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	$2050 < f < 2095$ $2185 < f < 2230$	$2025 < f \leq 2050$ $2230 \leq f < 2255$	$1 < f \leq 2025$ $2255 \leq f < 12750$
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	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

### 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. 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 Q. Receiver Reference Sensitivity level

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I & BAND VIII TNVN) of follow:

WCDMA Band I				
	Parameter	Unit	DPCH_Ec<REFSENS>	<REFIor>
		dBm/3,84 MHz	-116,3	-106
TNVN	BER	%	0	0
	Result		Pass	Pass
WCDMA Band VIII				
	Parameter	Unit	DPCH_Ec<REFSENS>	<REFIor>
		dBm/3,84 MHz	-116,3	-106
TNVN	BER	%	0	0
	Result		Pass	Pass



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

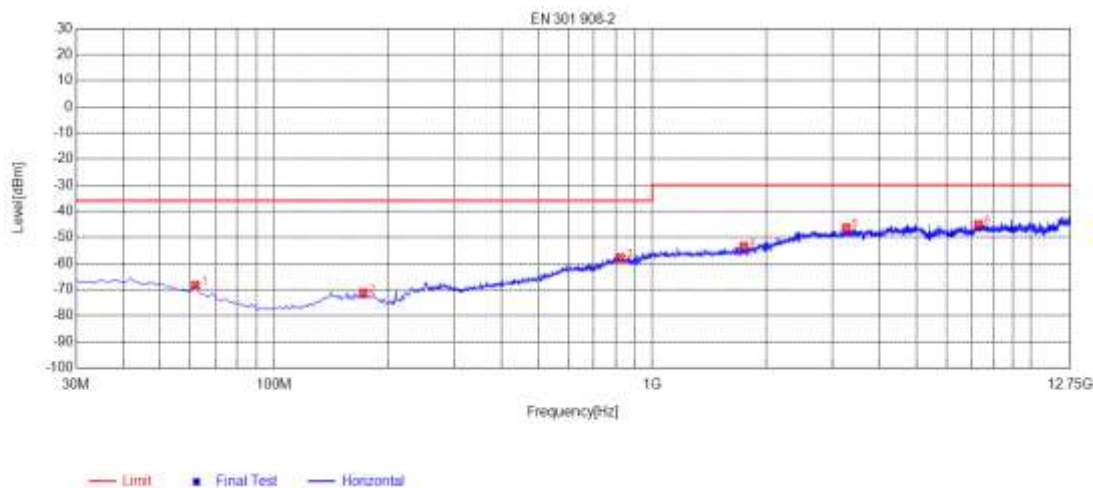
Frequency	RBW	Max Level (dbm)	Test Band=Band I			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
30 MHz ≤f < 1 GHz	100 kHz	-57	-63.63	-63.45	-63.58	Pass
1 GHz ≤f ≤ 12,75 GHz	1 MHz	-47	64.01	64.00	64.05	Pass
791 MHz ≤f ≤ 821 MHz	3,84 MHz	-60	-68.12	-68.24	-68.34	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-73.63	-73.58	-73.61	Pass
925 MHz ≤f ≤ 935 MHz	100 kHz	-67	-76.25	-76.34	-76.28	Pass
935 MHz < f ≤ 960 MHz	100 kHz	-79	-83.63	-83.57	-83.61	Pass
1805MHz ≤f ≤ 1880MHz	100 kHz	-60	-83.00	-83.12	-83.14	Pass
1920MHz ≤f ≤ 1980MHz	3,84 MHz	-60	-70.52	-70.74	-70.68	Pass
2 110 MHz ≤f ≤ 2 170 MHz	3,84 MHz	-60	-71.23	-71.42	-71.36	Pass
2 585 MHz ≤f ≤ 2 690 MHz	3,84 MHz	-60	-69.66	-69.71	-69.72	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	-63.23	-63.32	-63.41	Pass
1 GHz ≤f ≤12,75 GHz	1 MHz	-47	-55.66	-55.71	-55.69	Pass
791 MHz ≤f ≤821 MHz	3,84 MHz	-60	-70.12	-70.23	-70.19	Pass
880 MHz ≤f < 915 MHz	3,84 MHz	-60	-66.23	-66.28	-66.31	Pass
921 MHz ≤f ≤925 MHz	100 kHz	-60	-71.00	-71.05	-71.10	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-83.14	-83.23	-83.15	Pass
925 MHz ≤f ≤935 MHz	3,84 MHz	-60	-69.00	-69.01	-69.03	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-85.13	-85.14	-85.22	Pass
1805MHz ≤f ≤1880MHz	3,84 MHz	-60	-70.25	-70.24	-70.33	Pass
2 110 MHz ≤f ≤2 170 MHz	3,84 MHz	-60	-68.96	-68.98	-69.03	Pass
2 585 MHz ≤f ≤2 690 MHz	3,84 MHz	-60	-71.54	-71.61	-71.58	Pass



## Appendix T. Radiated spurious emissions test result

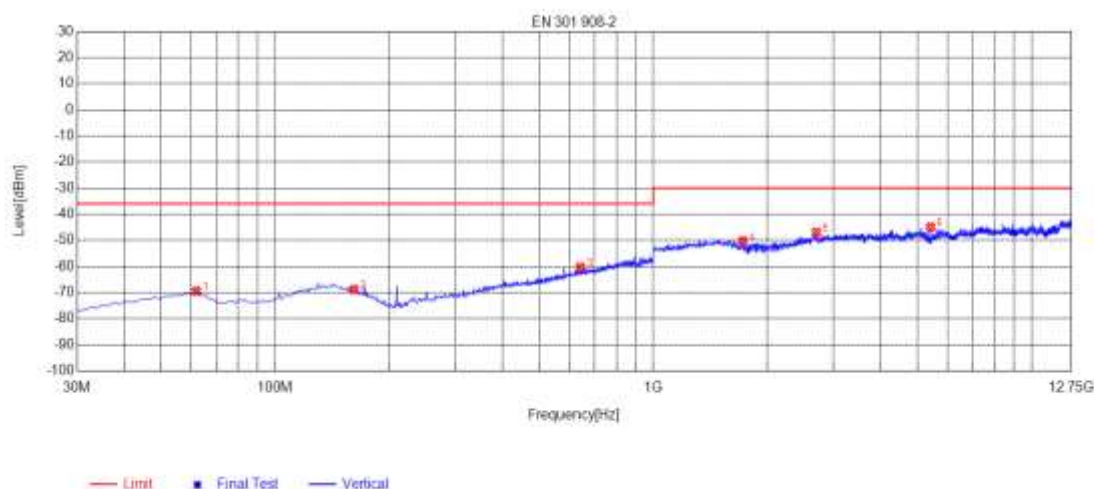
### RADIATED SPURIOUS EMISSIONS UMTS BAND I– HORIZONTAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	62.0100	-98.78	-68.44	-36.00	32.44	30.34	77	Horizontal
2	172.5900	-100.87	-71.42	-36.00	35.42	29.45	86	Horizontal
3	825.4000	-101.21	-57.91	-36.00	21.91	43.30	1	Horizontal
4	1745.0990	-52.11	-53.49	-30.00	23.49	-1.38	178	Horizontal
5	3258.8018	-52.13	-46.38	-30.00	16.38	5.75	137	Horizontal
6	7287.5075	-57.95	-45.14	-30.00	15.14	12.81	329	Horizontal

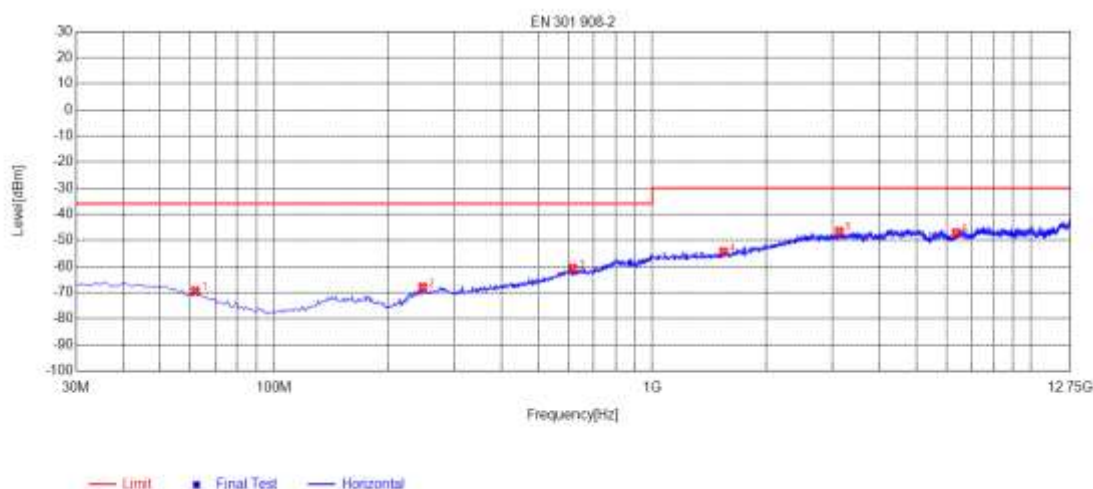


## RADIATED SPURIOUS EMISSIONS UMTS BAND I-VERTICAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	62.0100	-100.14	-69.46	-36.00	33.46	30.68	31	Vertical
2	161.9200	-101.62	-68.85	-36.00	32.85	32.77	165	Vertical
3	642.0700	-99.76	-60.31	-36.00	24.31	39.45	199	Vertical
4	1726.2953	-51.63	-50.26	-30.00	20.26	1.37	333	Vertical
5	2699.3899	-51.23	-47.01	-30.00	17.01	4.22	56	Vertical
6	5409.4819	-54.83	-44.96	-30.00	14.96	9.87	174	Vertical

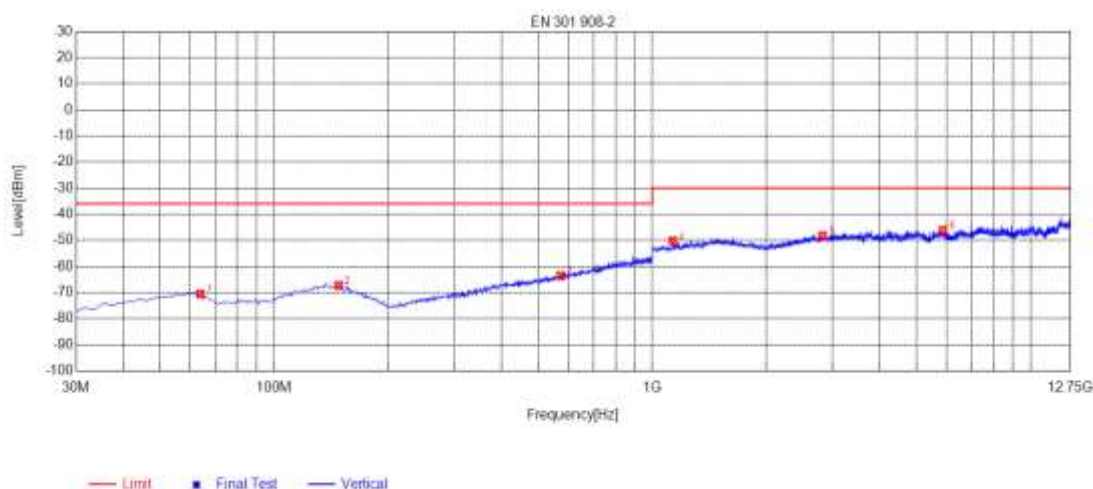
## RADIATED SPURIOUS EMISSIONS UMTS BAND VIII- HORIZONTAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	62.0100	-99.80	-69.46	-36.00	33.46	30.34	221	Horizontal
2	247.2800	-100.10	-67.97	-36.00	31.97	32.13	10	Horizontal
3	616.8500	-100.72	-60.82	-36.00	24.82	39.90	86	Horizontal
4	1542.9586	-51.55	-54.44	-30.00	24.44	-2.89	78	Horizontal
5	3120.1240	-52.16	-46.66	-30.00	16.66	5.50	154	Horizontal
6	6352.0204	-58.53	-47.19	-30.00	17.19	11.34	95	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	-100.58	-70.58	-36.00	34.58	30.00	99	Vertical
2	148.3400	-101.06	-67.25	-36.00	31.25	33.81	258	Vertical
3	572.2300	-101.69	-63.62	-36.00	27.62	38.07	82	Vertical
4	1133.9768	-49.99	-50.26	-30.00	20.26	-0.27	149	Vertical
5	2821.6143	-52.89	-48.27	-30.00	18.27	4.62	6	Vertical
6	5877.2254	-56.84	-46.12	-30.00	16.12	10.72	115	Vertical

## APPENDIX U: PHOTOGRAPHS OF TEST SETUP

### RADIATED SPURIOUS EMISSION TEST SETUP



RADIATED SPURIOUS EMISSION ABOVE 1G TEST SETUP



----END OF REPORT----