



REPORT No.: SZ25040205W01

TEST REPORT

APPLICANT : Shenzhen Chainway Information
Technology Co., Ltd

PRODUCT NAME : Mobile Data Terminal

MODEL NAME : MC51

BRAND NAME : CHAINWAY

FCC ID : 2AC6AMC51

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22 Subpart H
47 CFR Part 24 Subpart E
47 CFR Part 27 Subpart L

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Change History		
Version	Date	Reason for change
1.0	2025-10-20	First edition





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Shenzhen Chainway Information Technology Co., Ltd
Applicant Address:	9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Chainway Information Technology Co., Ltd
Manufacturer Address:	9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Data Terminal	
Sample No.:	10#, 12#	
Hardware Version:	MC51_Hardware_version	
Software Version:	MC51_Software_version	
Modulation Type:	GSM/GPRS Mode with GMSK Modulation EDGE Mode with 8PSK Modulation WCDMA Mode with QPSK Modulation HSDPA Mode with QPSK Modulation HSUPA Mode with QPSK Modulation HSPA+ Mode with 16QAM Modulation	
Operating Frequency Range:	GSM 850MHz	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	GSM 1900MHz	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	WCDMA Band V	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	WCDMA Band IV	Tx: 1710MHz-1755MHz
		Rx: 2110MHz-2155MHz
	WCDMA Band II	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz





Antenna Type:	PIFA Antenna	
Antenna Gain:	GSM 850:	-1.4dBi
	GSM1900:	-0.9dBi
	WCDMA Band V:	-1.4dBi
	WCDMA Band IV:	2.2dBi
	WCDMA Band II:	-0.9dBi
Accessory Information:	Battery 1	
	Brand Name:	BOB
	Model No.:	MC51
	Serial No.:	N/A
	Capacity:	4800mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Dongguan Bob Electronics Co., Ltd
	Battery 2	
	Brand Name:	UTILITY
	Model No.:	MC51
	Serial No.:	N/A
	Capacity:	4800mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	SHEN ZHEN UTILITY ENERGY CO.,LTD.
	Battery 3	
	Brand Name:	BOB
	Model No.:	471120-50mAh
	Serial No.:	N/A
	Capacity:	50mAh
	Rated Voltage:	3.7V
	Charge Limit:	4.2V
	Manufacturer:	Dongguan Bob Electronics Co., Ltd



Accessory Information:	AC Adapter	
	Brand Name:	YING YUAN
	Model No.:	DBS15Q
	Serial No.:	N/A
	Rated Output:	5V=3A; 9V=2A; 12V=1.5A;
	Rated Input:	100-240V~50/60Hz, 0.5A
	Manufacturer:	SHENZHEN SHI YING YUAN ELECTRONICS CO LTD
	USB Cable	
	Model No.:	K422-08251-H0
	Manufacturer:	Dongguan Chuantuo Electronics Co., Ltd

Note 1: The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula $F(n)=824.2+0.2*(n-128)$, $128 \leq n \leq 251$; the lowest, middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 189 (836.4MHz) and 251 (848.8MHz).

Note 2: The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula $F(n)=1850.2+0.2*(n-512)$, $512 \leq n \leq 810$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).

Note 3: The transmitter (Tx) frequency arrangement of the WCDMA Band V used by the EUT can be represented with the formula $F(n)=826.4+0.2*(n-4132)$, $4132 \leq n \leq 4233$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4182(836.4MHz) and 4233 (846.6MHz).

Note 4: The transmitter (Tx) frequency arrangement of the WCDMA IV band used by the EUT can be represented with the formula $F(n)=1712.4+0.2*(n-1312)$, $1312 \leq n \leq 1513$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 1312 (1712.4MHz), 1413 (1732.6MHz) and 1513 (1752.6MHz).

Note 5: The transmitter (Tx) frequency arrangement of the WCDMA Band II used by the EUT can be represented with the formula $F(n)=1852.4+0.2*(n-9262)$, $9262 \leq n \leq 9538$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).

Note 6: All test modes and data rates were considered and evaluated respectively by performing full test. Test modes are chosen to be reported as the worst case below:

GSM mode and EDGE mode for GSM 850;

GSM mode and EDGE mode for GSM 1900;

WCDMA mode for WCDMA band V;

WCDMA mode for WCDMA band IV;

WCDMA mode for WCDMA band II;

Note 7: The EUT description presented in the report are provided by applicant and/or





manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

Test Mode	Maximum E.R.P./E.I.R.P. (W)	Emission Designator
GSM850(GSM)	0.526	242KGXW
GSM850(EDGE)	0.132	252KG7W
GSM1900(GSM)	0.678	241KGXW
GSM1900(EDGE)	0.248	248KG7W
WCDMA Band V	0.098	4M15F9W
WCDMA Band IV	0.389	4M17F9W
WCDMA Band II	0.152	4M17F9W





1.4. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-12 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-12 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-12 Edition)	Personal Communications Services
4	47 CFR Part 27 (10-1-12 Edition)	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	2.1046	Conducted RF Output Power	Jun. 21, 2025	Yu Xiaoming	PASS	/
2	24.232(d)	Peak -Average Ratio	Jun. 21, 2025	Liu Huiyan	PASS	/
3	2.1049	Occupied Bandwidth	Jun. 21, 2025	Liu Huiyan	PASS	/
4	2.1055, 22.355, 24.235, 27.54	Frequency Stability	Jun. 21, 2025	Liu Huiyan	PASS	/
5	2.1051, 22.917(a), 24.238(a), 27.53(h)	Conducted Out of Band Emissions	Jun. 21, 2025	Liu Huiyan	PASS	/
6	2.1051, 22.917(a), 24.238(a), 27.53(h)	Band Edge	Jun. 21, 2025	Liu Huiyan	PASS	/
7	22.913(a), 24.232(c), 27.50(d)	Transmitter Radiated Power (E.I.P.R./E.R.P.)	Jun. 21, 2025	Liu Huiyan	PASS ^{Note3}	/
8	2.1051, 22.917(a), 24.238(a), 27.53(h)	Radiated Out of Band Emissions	Jun. 04, 2025 to Jul. 25, 2025	Gao Jianrou	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in KDB





971168 D01 v03r01 and ANSI/TIA-603-E-2016.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

Note 3: The antenna gain presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106



2.47 CFR Part 2, Part 22H, 24E&27L Requirements

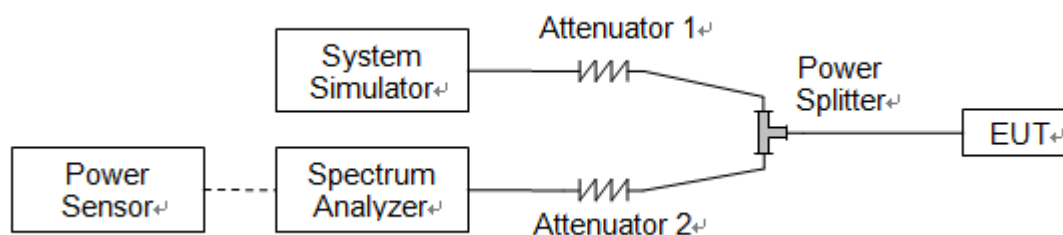
2.1. Conducted RF Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



**2.1.3. Test Results**

GSM850	Average Power (dBm)		
TX Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM 1 Tx slot	30.65	30.66	30.76
GPRS 1 Tx slot	30.63	30.63	30.72
GPRS 2 Tx slots	29.10	29.17	29.19
GPRS 3 Tx slots	27.92	28.15	28.14
GPRS 4 Tx slots	26.58	26.69	26.64
EDGE 1 Tx slot	24.64	24.75	24.61
EDGE 2 Tx slots	24.10	24.12	24.08
EDGE 3 Tx slots	22.55	22.39	22.42
EDGE 4 Tx slots	21.47	21.51	21.48

GSM1900	Average Power (dBm)		
TX Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM 1 Tx slot	29.21	29.13	29.12
GPRS 1 Tx slot	29.18	29.11	29.10
GPRS 2 Tx slots	27.99	28.01	28.03
GPRS 3 Tx slots	27.14	27.19	27.19
GPRS 4 Tx slots	25.26	25.27	25.31
EDGE 1 Tx slot	24.76	24.84	24.80
EDGE 2 Tx slots	24.08	23.83	23.92
EDGE 3 Tx slots	22.85	22.75	22.71
EDGE 4 Tx slots	21.35	21.23	21.30





WCDMA Band V	Average Power (dBm)		
TX Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2Kbps	23.42	23.47	23.41
HSDPA Subtest-1	22.56	22.52	22.51
HSDPA Subtest-2	22.58	22.57	22.53
HSDPA Subtest-3	22.02	22.03	22.02
HSDPA Subtest-4	22.01	22.00	22.02
DC-HSDPA Subtest-1	22.58	22.57	22.54
DC-HSDPA Subtest-2	22.56	22.57	22.57
DC-HSDPA Subtest-3	22.05	22.08	22.04
DC-HSDPA Subtest-4	22.05	22.07	22.03
HSUPA Subtest-1	22.54	22.67	22.52
HSUPA Subtest-2	22.14	22.11	22.02
HSUPA Subtest-3	22.55	22.61	22.61
HSUPA Subtest-4	22.61	22.63	22.53
HSUPA Subtest-5	22.59	22.71	22.57
HSPA+ (16QAM) Subtest-1	22.58	22.62	22.56

WCDMA Band IV	Average Power (dBm)		
TX Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2Kbps	23.68	23.70	23.66
HSDPA Subtest-1	22.71	22.79	22.74
HSDPA Subtest-2	22.68	22.80	22.71
HSDPA Subtest-3	22.23	22.33	22.28
HSDPA Subtest-4	22.27	22.31	22.23
DC-HSDPA Subtest-1	22.73	22.84	22.81
DC-HSDPA Subtest-2	22.75	22.82	22.78
DC-HSDPA Subtest-3	22.23	22.31	22.29
DC-HSDPA Subtest-4	22.22	22.32	22.31
HSUPA Subtest-1	22.71	22.83	22.80
HSUPA Subtest-2	22.32	22.36	22.28
HSUPA Subtest-3	22.79	22.82	22.76
HSUPA Subtest-4	22.76	22.84	22.81
HSUPA Subtest-5	22.81	22.86	22.78
HSPA+ (16QAM) Subtest-1	22.78	22.80	22.76





WCDMA Band II	Average Power (dBm)		
TX Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2Kbps	22.66	22.73	22.67
HSDPA Subtest-1	21.74	21.65	21.66
HSDPA Subtest-2	21.76	21.61	21.64
HSDPA Subtest-3	21.25	21.12	21.16
HSDPA Subtest-4	21.20	21.18	21.10
DC-HSDPA Subtest-1	21.73	21.64	21.63
DC-HSDPA Subtest-2	21.75	21.67	21.64
DC-HSDPA Subtest-3	21.25	21.15	21.16
DC-HSDPA Subtest-4	21.26	21.16	21.15
HSUPA Subtest-1	21.73	21.62	21.63
HSUPA Subtest-2	21.24	21.20	21.20
HSUPA Subtest-3	21.73	21.64	21.64
HSUPA Subtest-4	21.76	21.66	21.65
HSUPA Subtest-5	21.72	21.69	21.61
HSPA+ (16QAM) Subtest-1	21.82	21.72	21.66



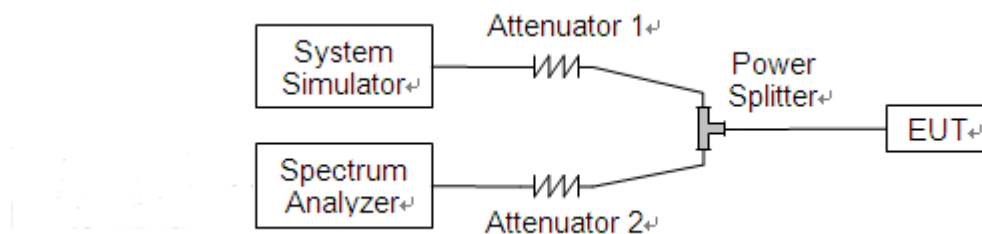
2.2. Peak to Average Ratio

2.2.1. Requirement

According to FCC 24.232(d) and 27.50(d), the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2.2.3. Test procedure

1. For GSM/EDGE operating mode:
 - a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
 - b. Set EUT in maximum output power, and triggered the bust signal.
 - c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.
2. For UMTS operating mode:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.



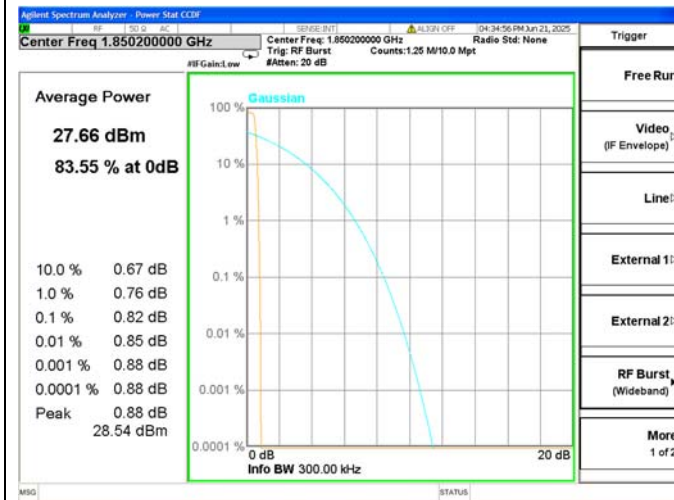
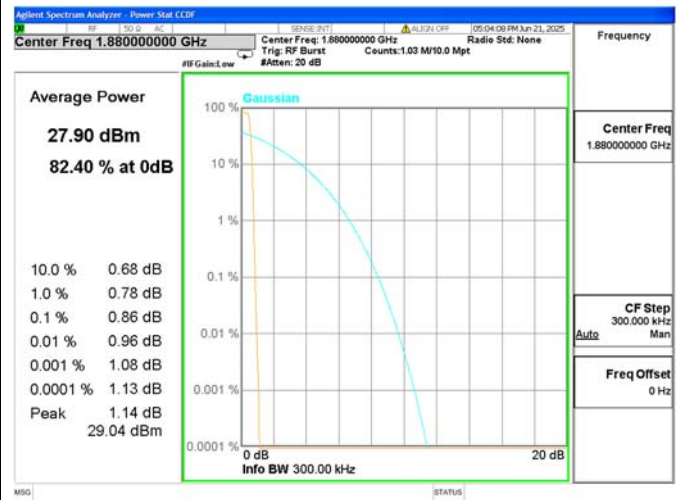
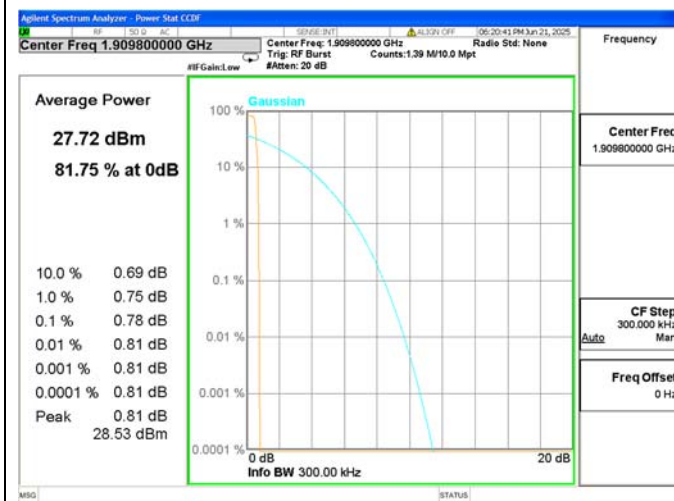
**2.2.4. Test Result****A. Test Verdict:**

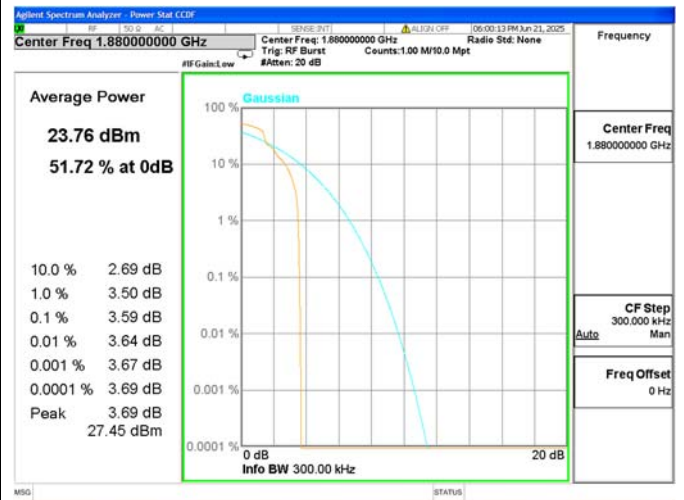
GSM1900					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
GSM	512	1850.2	0.82	13	PASS
	661	1880.0	0.86		PASS
	810	1909.8	0.78		PASS
EDGE	512	1850.2	3.53		PASS
	661	1880.0	3.59		PASS
	810	1909.8	3.52		PASS

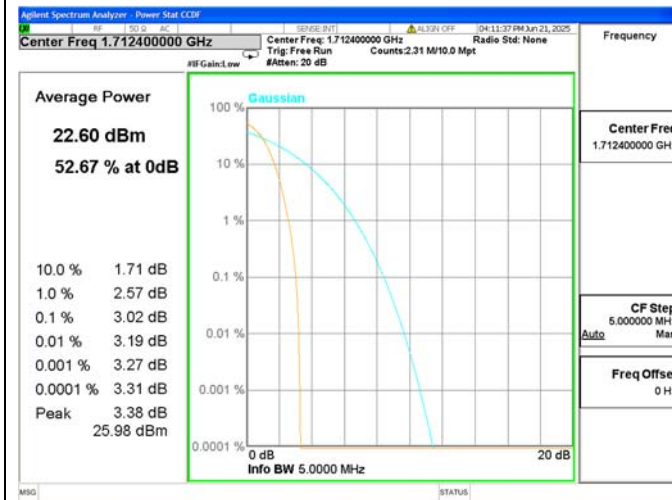
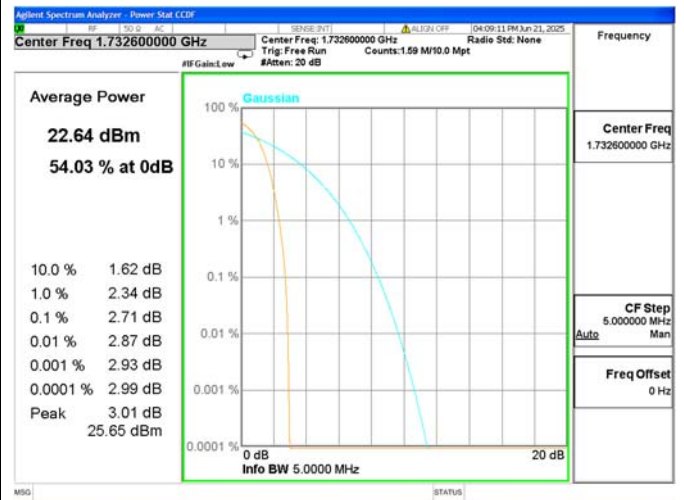
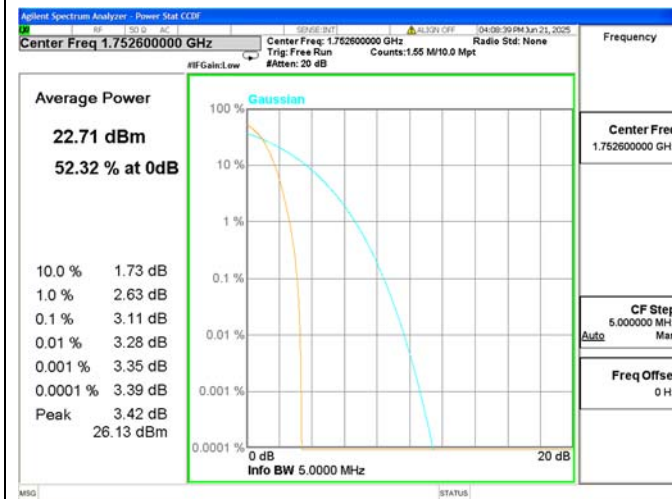
WCDMA Band IV					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
WCDMA	1312	1712.4	3.02	13	PASS
	1413	1732.6	2.71		PASS
	1513	1752.6	3.11		PASS

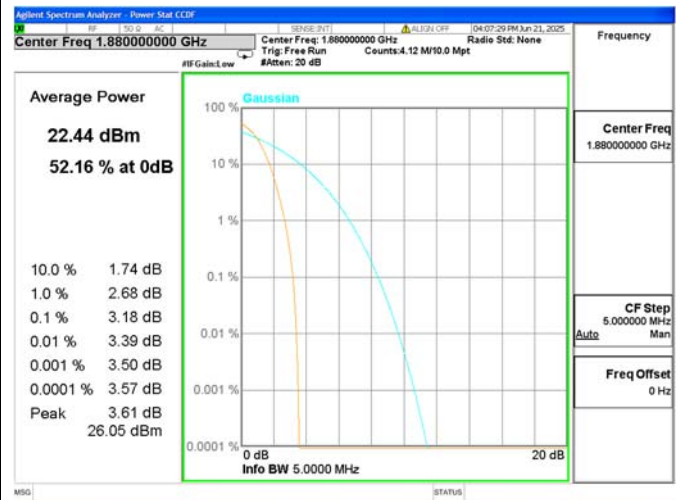
WCDMA Band II					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
WCDMA	9262	1852.4	3.19	13	PASS
	9400	1880.0	3.18		PASS
	9538	1907.6	3.03		PASS



**GSM1900(GSM), CH512, 1850.2MHz****GSM1900(GSM), CH661, 1880.0MHz****GSM1900(GSM), CH810, 1909.8MHz**

**GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH661, 1880.0MHz****GSM1900(EDGE), CH810, 1909.8MHz**

**WCDMA Band IV, CH1312, 1712.4MHz****WCDMA Band IV, CH1413, 1732.6MHz****WCDMA Band IV, CH1513, 1752.6MHz**

**WCDMA Band II, CH9262, 1852.4MHz****WCDMA Band II, CH9400, 1880.0MHz****WCDMA Band II, CH9538, 1907.6MHz**

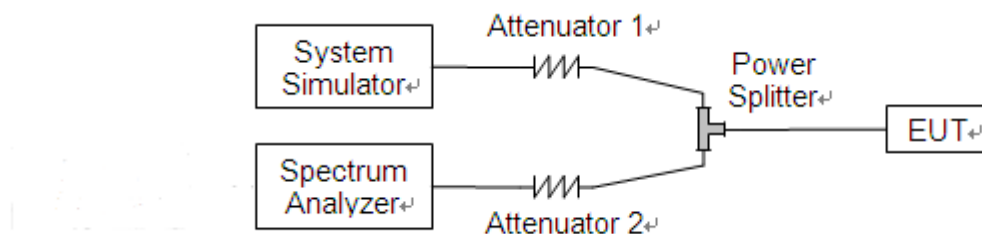
2.3. Occupied Bandwidth

2.3.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.3.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



2.3.3.Test Result

GSM850				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	128	824.2	241.40	304.7
	189	836.4	240.72	304.3
	251	848.8	241.64	304.3
EDGE	128	824.2	245.82	309.1
	189	836.4	252.00	309.9
	251	848.8	247.48	312.8

GSM1900				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	512	1850.2	239.07	308.4
	661	1880.0	240.41	307.1
	810	1909.8	241.29	304.8
EDGE	512	1850.2	247.16	302.5
	661	1880.0	247.54	310.1
	810	1909.8	242.73	292.9

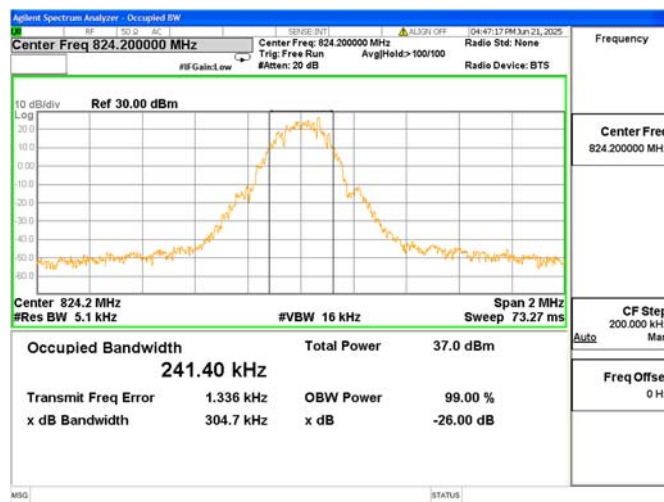
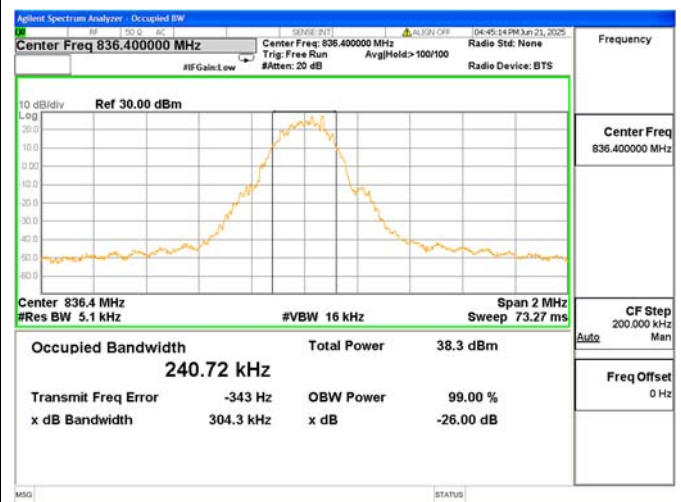
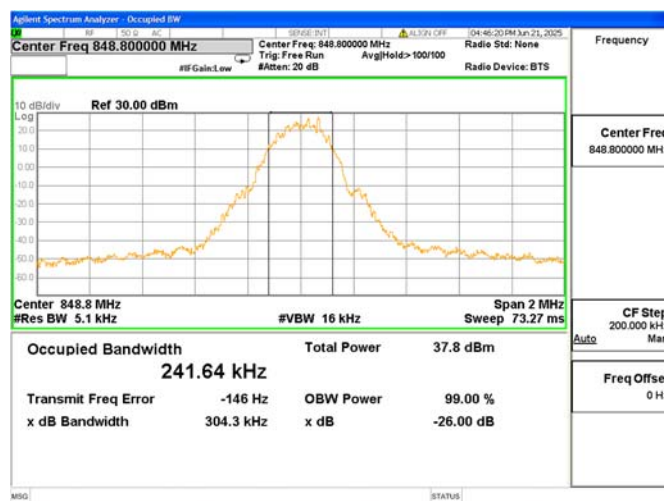
WCDMA Band V				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	4132	826.4	4.15	4.73
	4182	836.4	4.15	4.72
	4233	846.6	4.14	4.72

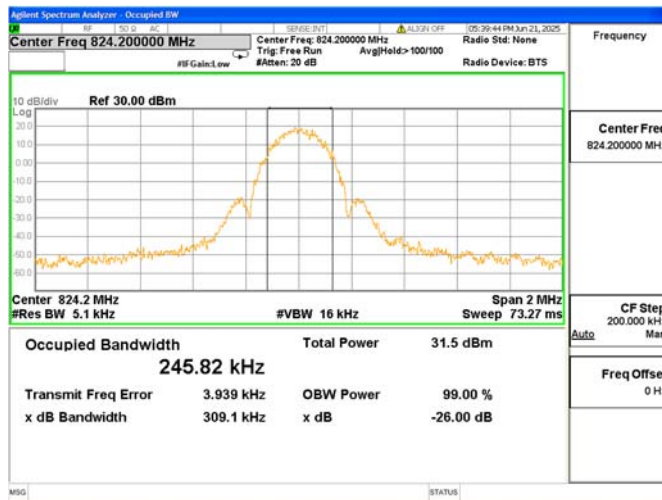
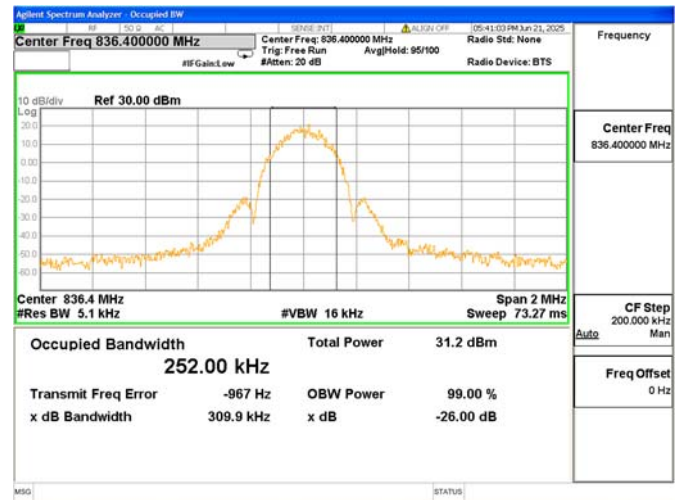
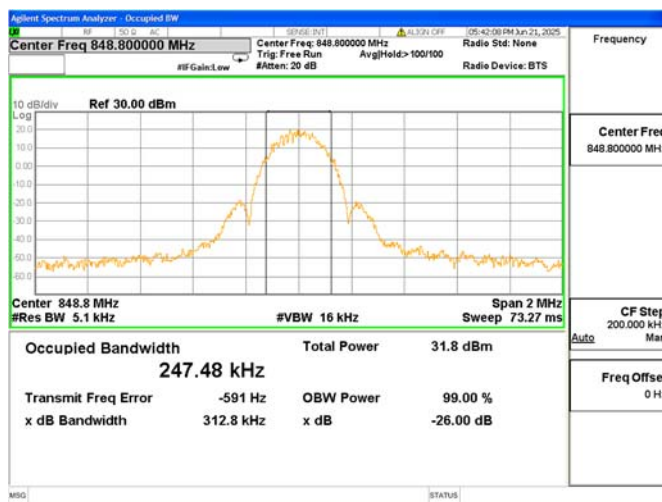
WCDMA Band IV				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	1312	1712.4	4.16	4.76
	1413	1732.6	4.17	4.76
	1513	1752.6	4.16	4.75

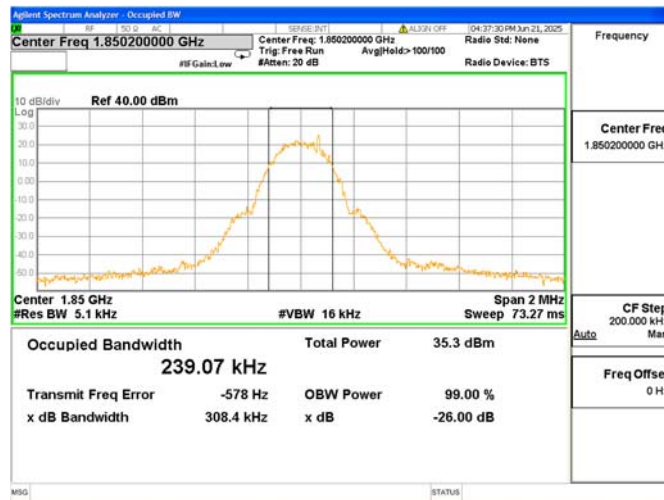
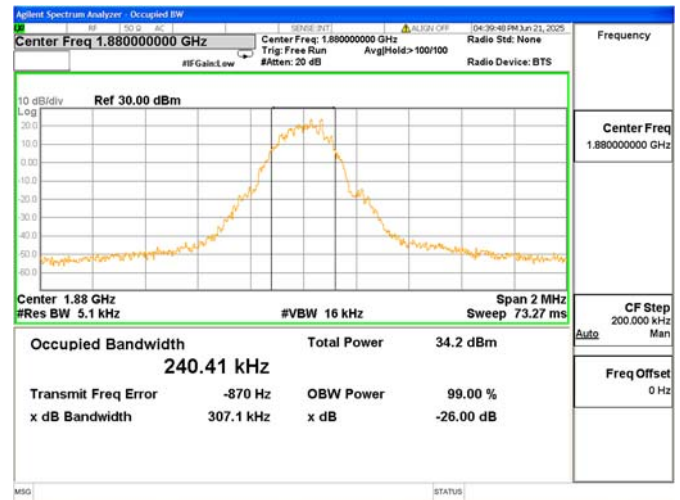
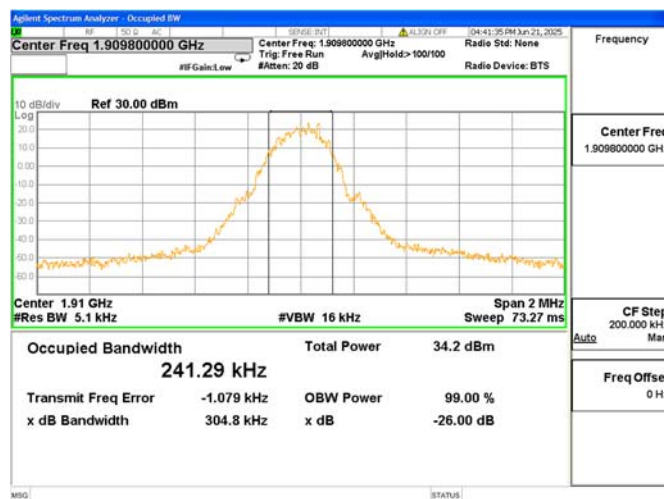


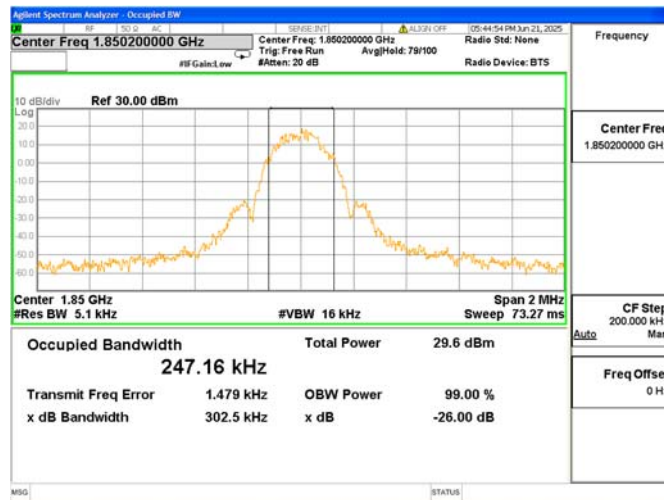
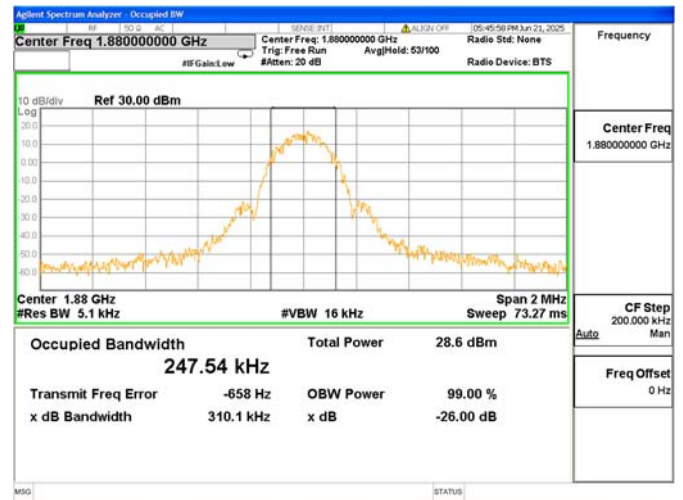
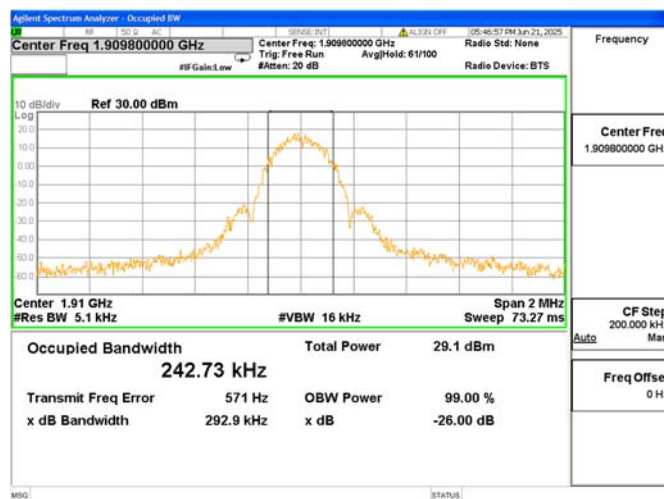


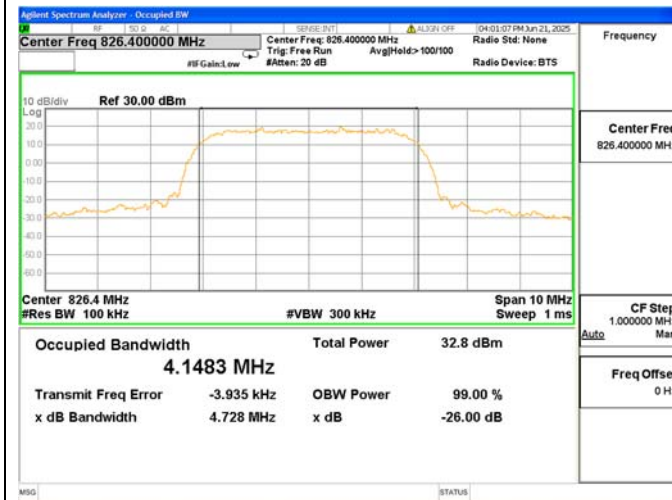
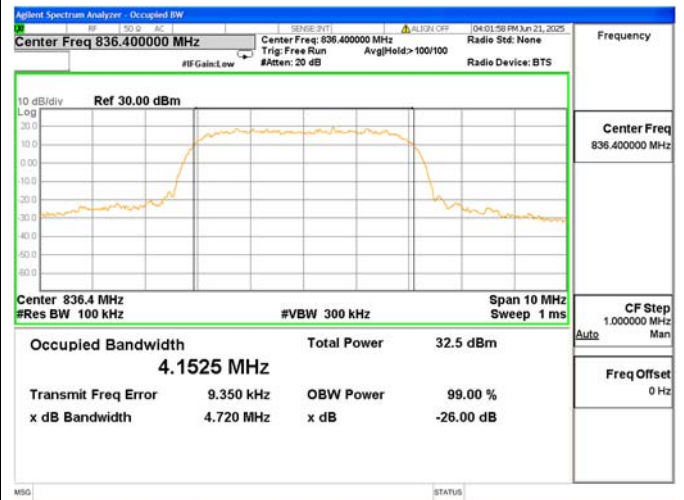
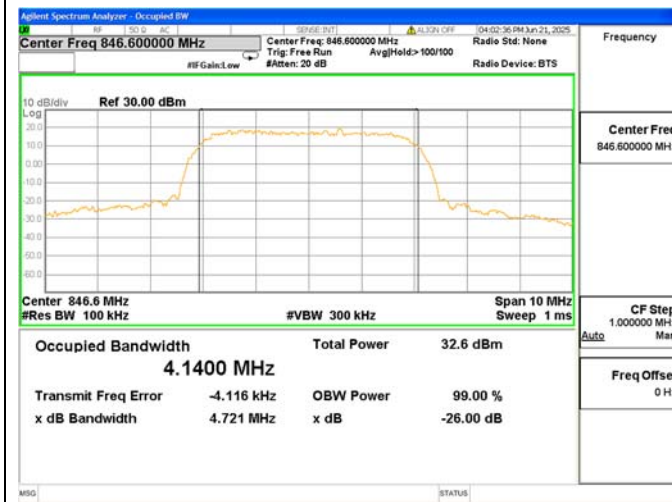
WCDMA Band II				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	9262	1852.4	4.15	4.73
	9400	1880.0	4.16	4.72
	9538	1907.6	4.17	4.73

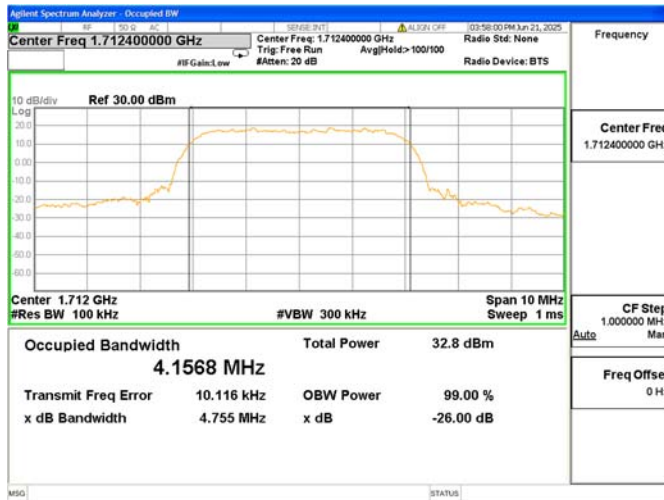
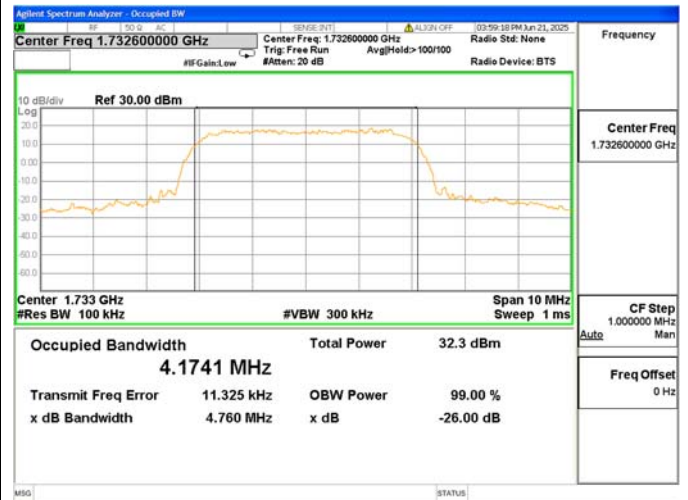
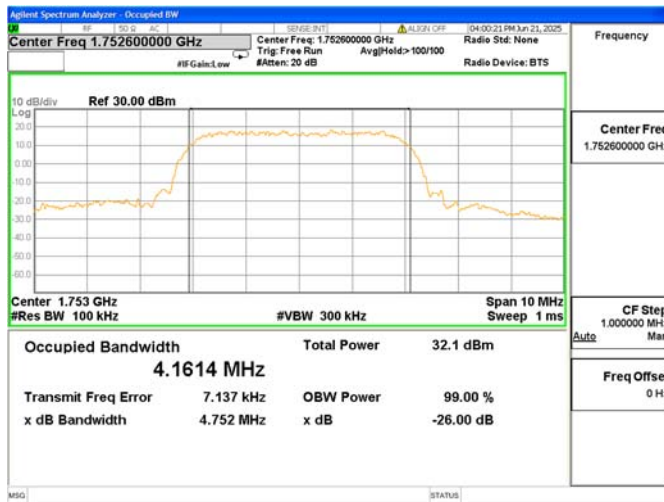
GSM850(GSM), CH128, 824.2MHz**GSM850(GSM), CH189, 836.4MHz****GSM850(GSM), CH251, 848.8MHz**

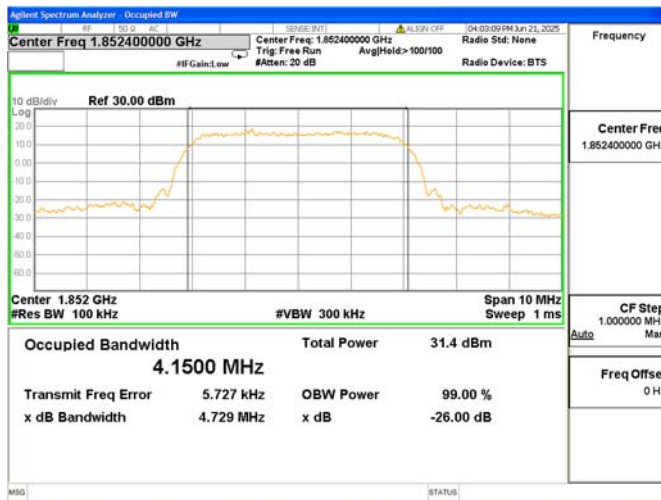
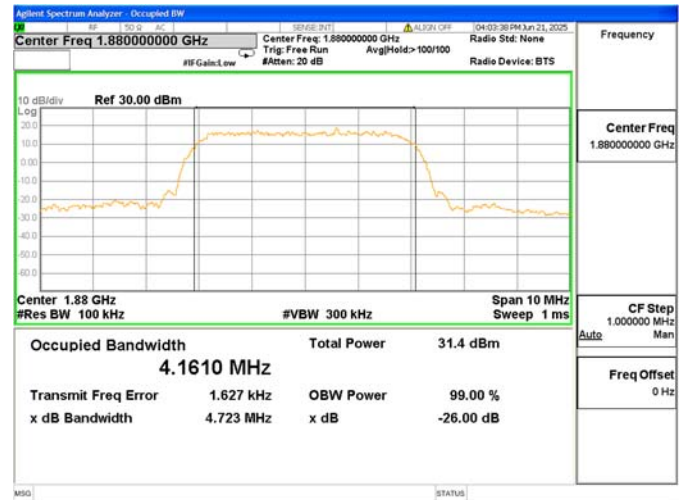
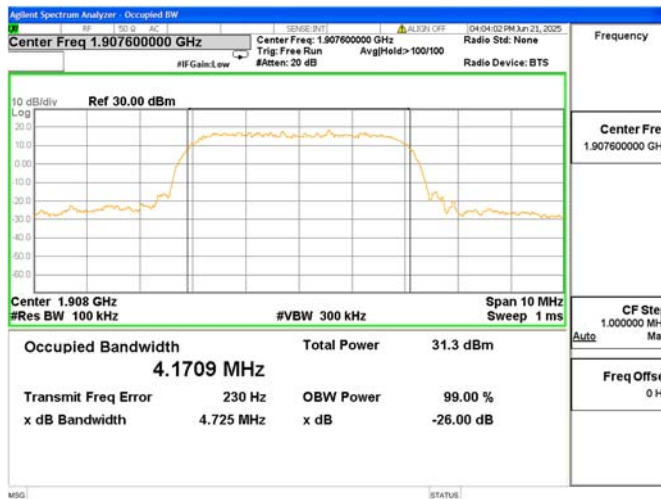
**GSM850(EDGE), CH128, 824.2MHz****GSM850(EDGE), CH189, 836.4MHz****GSM850(EDGE), CH251, 848.8MHz**

**GSM1900(GSM), CH512, 1850.2MHz****GSM1900(GSM), CH661, 1880.0MHz****GSM1900(GSM), CH810, 1909.8MHz**

**GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH661, 1880.0MHz****GSM1900(EDGE), CH810, 1909.8MHz**

**WCDMA Band V, CH4132, 826.4MHz****WCDMA Band V, CH4182, 836.4MHz****WCDMA Band V, CH4233, 846.6MHz**

**WCDMA Band IV, CH1312, 1712.4MHz****WCDMA Band IV, CH1413, 1732.6MHz****WCDMA Band IV, CH1513, 1752.6MHz**

**WCDMA Band II, CH9262, 1852.4MHz****WCDMA Band II, CH9400, 1880.0MHz****WCDMA Band II, CH9538, 1907.6MHz**

2.4. Frequency Stability

2.4.1. Requirement

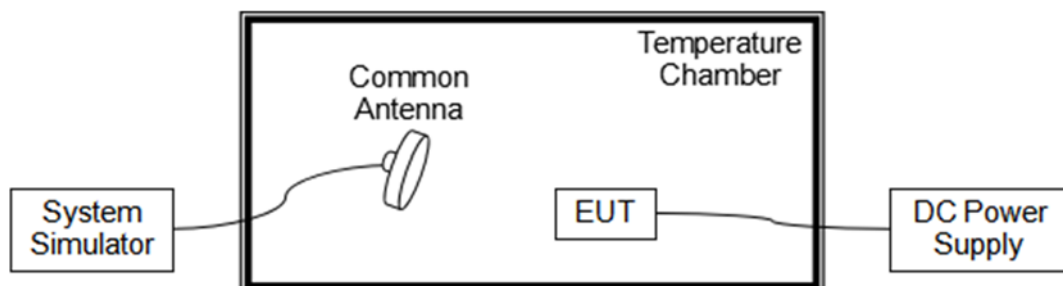
According to FCC section 22.355, 24.235 and 27.54 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -20°C to 50°C , which are specified by the applicant.

2.4.2. Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.





2.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85V, 4.40V and 3.00V, which are specified by the applicant; the normal temperature here used is 20°C.

GSM850(GSM), CH189, 836.4MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	19	0.023	PASS
Normal		-20	15	0.018	
Normal		-10	-20	-0.024	
Normal		0	21	0.025	
Normal		+10	-17	-0.020	
Normal		+20	8	0.010	
Normal		+30	19	0.023	
Normal		+40	-22	-0.026	
Normal		+50	3	0.004	
High	4.40	+20	16	0.019	
BATT.ENDPOINT	3.00	+20	14	0.017	

GSM850(EDGE), CH189, 836.4MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-19	-0.023	PASS
Normal		-20	23	0.027	
Normal		-10	-4	-0.005	
Normal		0	17	0.020	
Normal		+10	-1	-0.001	
Normal		+20	15	0.018	
Normal		+30	-23	-0.027	
Normal		+40	8	0.010	
Normal		+50	18	0.022	
High	4.40	+20	-3	-0.004	
BATT.ENDPOINT	3.00	+20	17	0.020	





GSM1900(GSM), CH661, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	20	0.011	PASS
Normal		-20	12	0.006	
Normal		-10	19	0.010	
Normal		0	-16	-0.009	
Normal		+10	6	0.003	
Normal		+20	17	0.009	
Normal		+30	16	0.009	
Normal		+40	17	0.009	
Normal		+50	13	0.007	
High	4.40	+20	12	0.006	
BATT.ENDPOINT	3.00	+20	15	0.008	

GSM1900(EDGE), CH661, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	12	0.006	PASS
Normal		-20	18	0.010	
Normal		-10	15	0.008	
Normal		0	13	0.007	
Normal		+10	4	0.002	
Normal		+20	20	0.011	
Normal		+30	-9	-0.005	
Normal		+40	16	0.009	
Normal		+50	18	0.010	
High	4.40	+20	20	0.011	
BATT.ENDPOINT	3.00	+20	19	0.010	





WCDMA Band V, CH4182, 836.4MHz					
Limit = $\pm$ 2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	15	0.018	PASS
Normal		-20	17	0.020	
Normal		-10	7	0.008	
Normal		0	18	0.022	
Normal		+10	19	0.023	
Normal		+20	14	0.017	
Normal		+30	14	0.017	
Normal		+40	16	0.019	
Normal		+50	14	0.017	
High	4.40	+20	14	0.017	
BATT.ENDPOINT	3.00	+20	15	0.018	

WCDMA Band IV, CH1413, 1732.6MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	20	0.012	PASS
Normal		-20	20	0.012	
Normal		-10	13	0.008	
Normal		0	19	0.011	
Normal		+10	-4	-0.002	
Normal		+20	20	0.012	
Normal		+30	-14	-0.008	
Normal		+40	11	0.006	
Normal		+50	20	0.012	
High	4.40	+20	-14	-0.008	
BATT.ENDPOINT	3.00	+20	-21	-0.012	





WCDMA Band II, CH9400, 1880.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	16	0.009	PASS
Normal		-20	16	0.009	
Normal		-10	16	0.009	
Normal		0	-21	-0.011	
Normal		+10	3	0.002	
Normal		+20	17	0.009	
Normal		+30	-1	-0.001	
Normal		+40	16	0.009	
Normal		+50	-8	-0.004	
High	4.40	+20	14	0.007	
BATT.ENDPOIN T	3.00	+20	20	0.011	



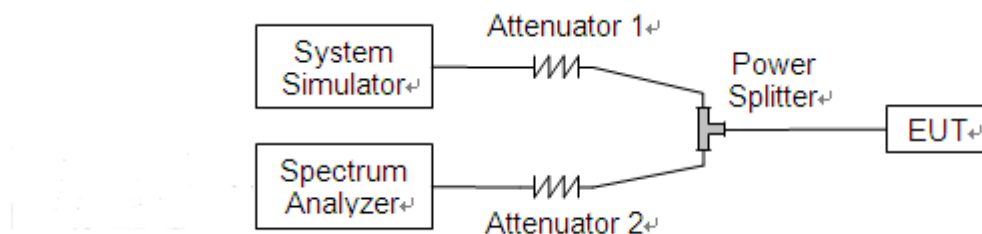
2.5. Conducted Out of Band Emissions

2.5.1. Requirement

According to FCC section 22.917(a), 24.238(a) and 27.53(h) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

2.5.2. Test Description

Test Setup:



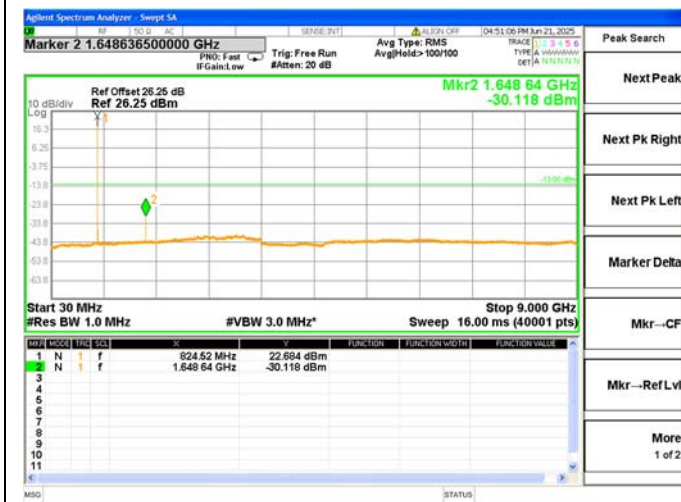
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.





2.5.3. Test Result

GSM850(GSM), CH128, 824.2MHz



GSM850(GSM), CH189, 836.4MHz

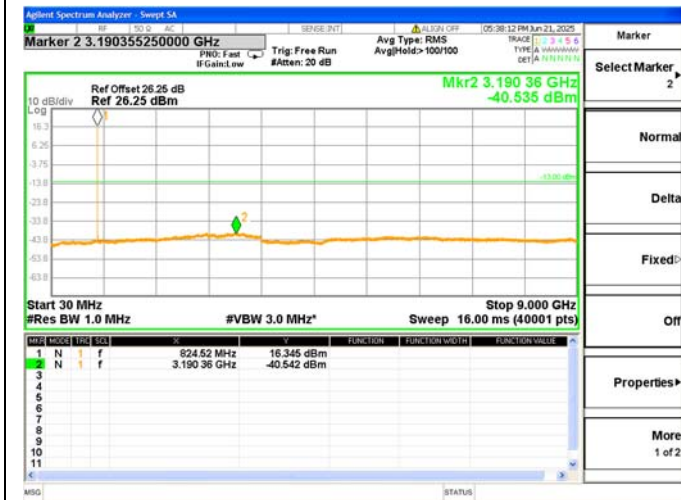


GSM850(GSM), CH251, 848.8MHz

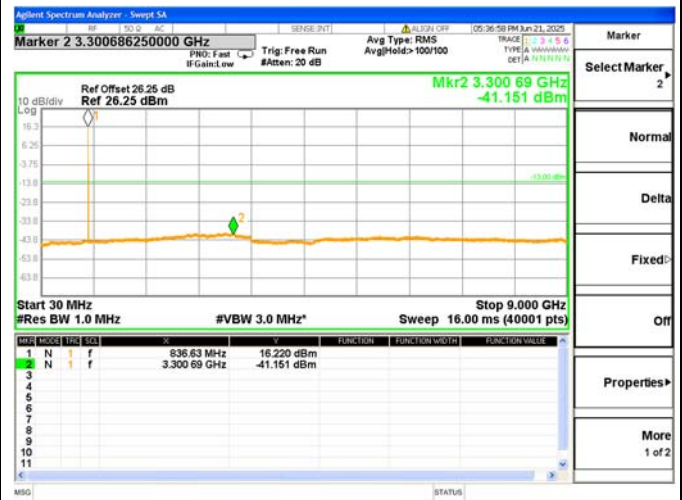




GSM850(EDGE), CH128, 824.2MHz



GSM850(EDGE), CH189, 836.4MHz

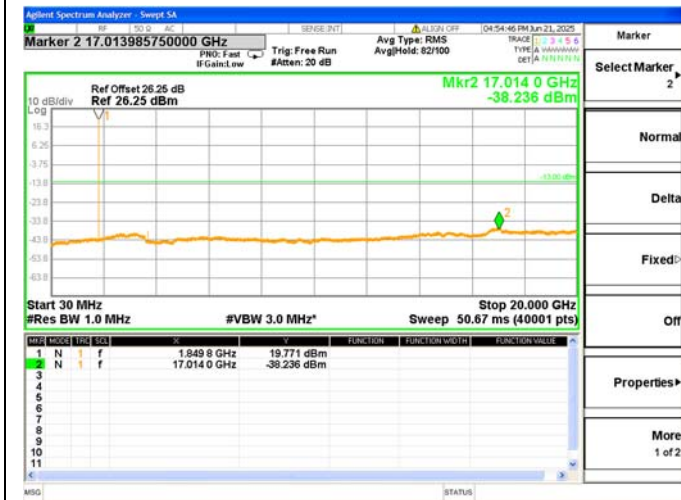


GSM850(EDGE), CH251, 848.8MHz

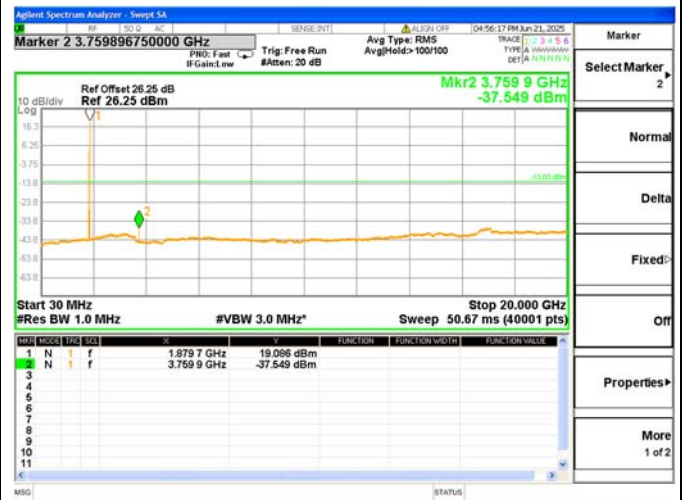




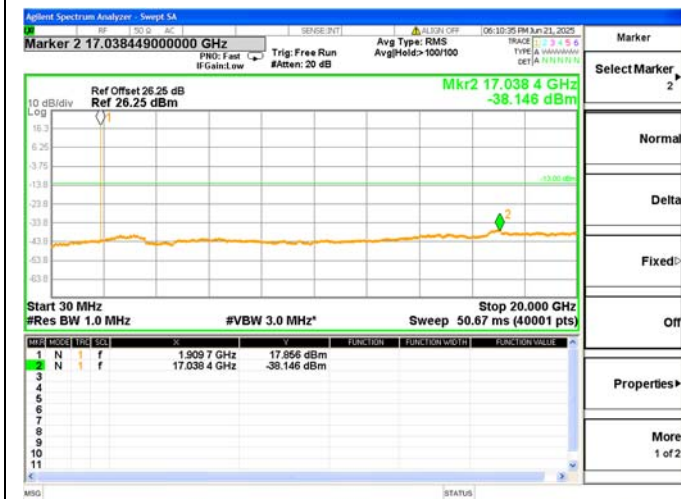
GSM1900(GSM), CH512, 1850.2MHz



GSM1900(GSM), CH661, 1880.0MHz

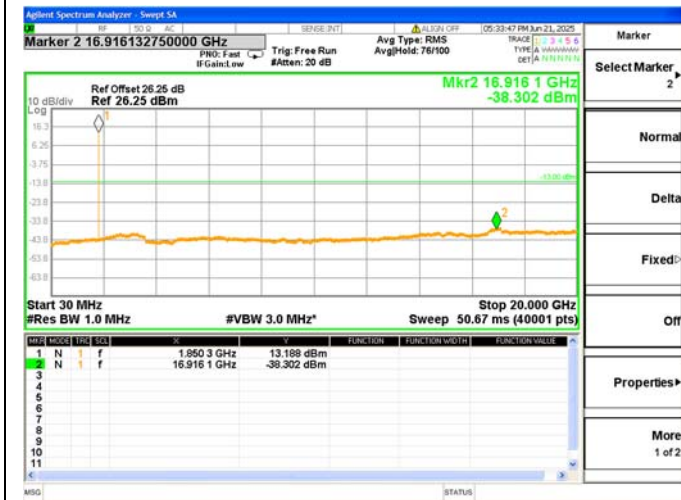


GSM1900(GSM), CH810, 1909.8MHz





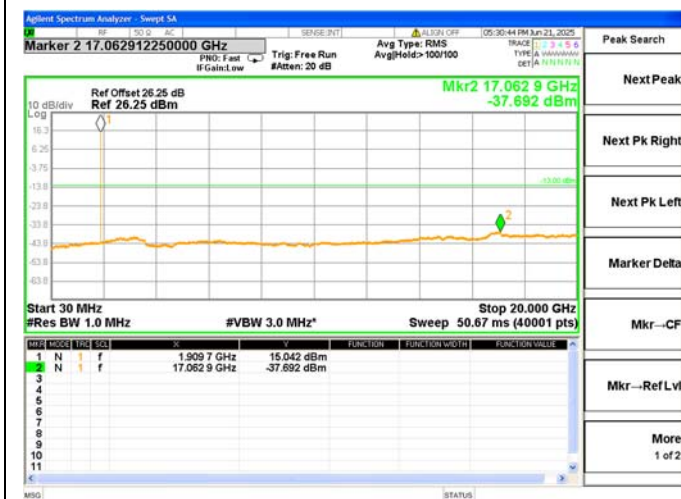
GSM1900(EDGE), CH512, 1850.2MHz



GSM1900(EDGE), CH661, 1880.0MHz



GSM1900(EDGE), CH810, 1909.8MHz

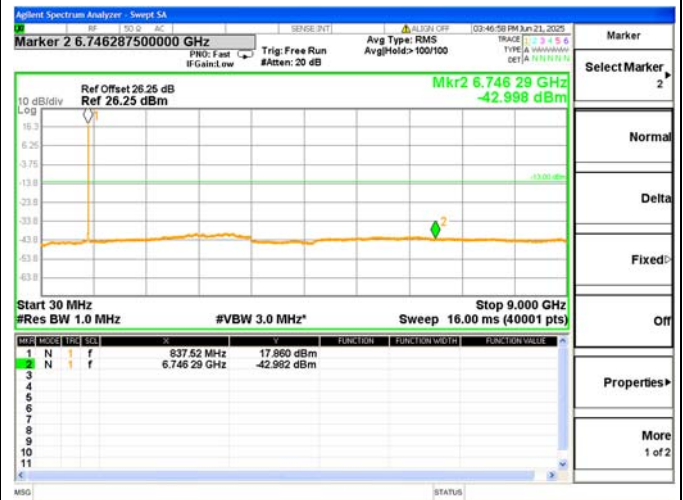




WCDMA Band V, CH4132, 826.4MHz



WCDMA Band V, CH4182, 836.4MHz

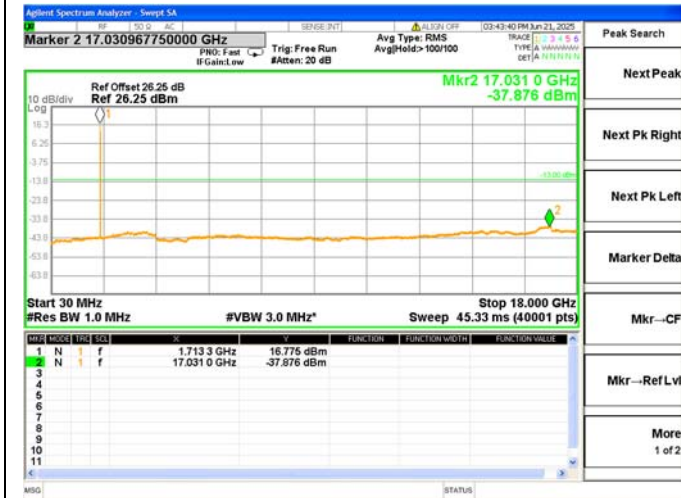


WCDMA Band V, CH4233, 846.6MHz

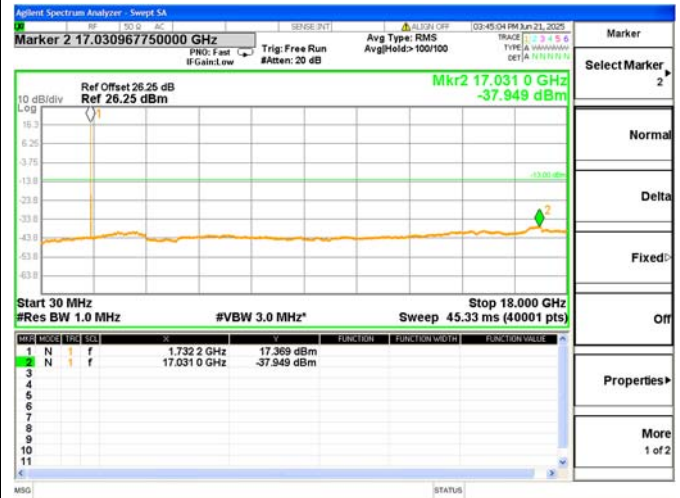




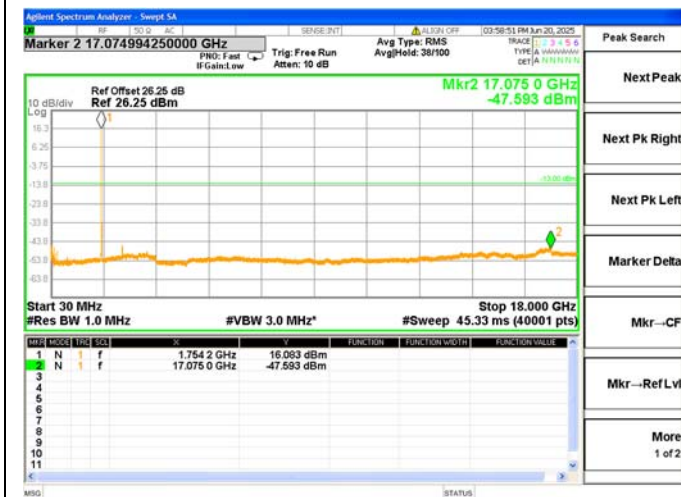
WCDMA Band IV, CH1312, 1712.4MHz



WCDMA Band IV, CH1413, 1732.6MHz

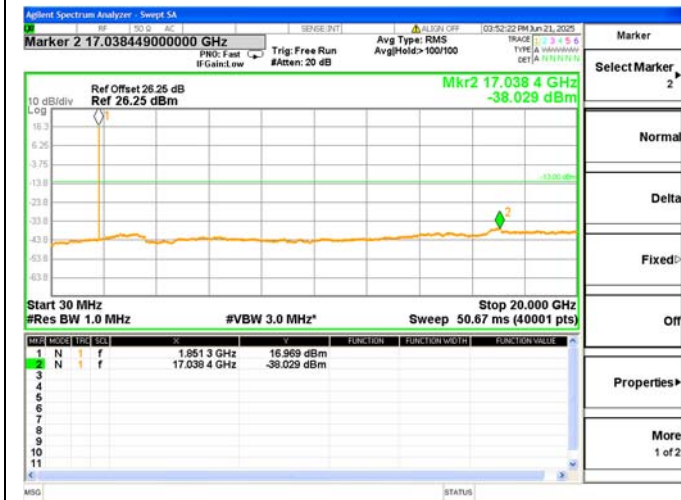


WCDMA Band IV, CH1513, 1752.6MHz

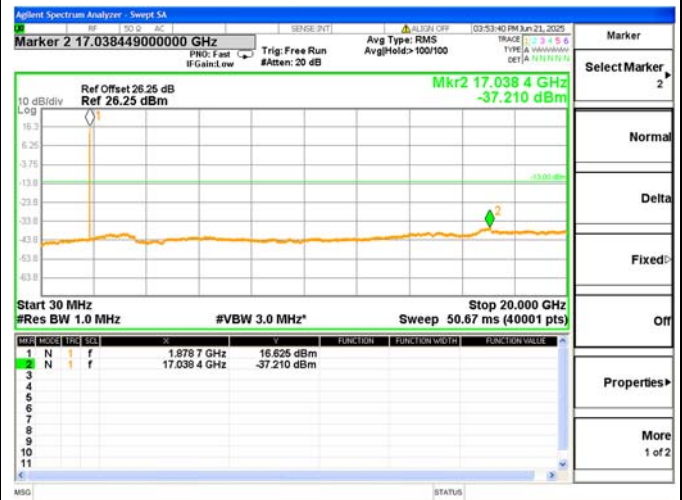




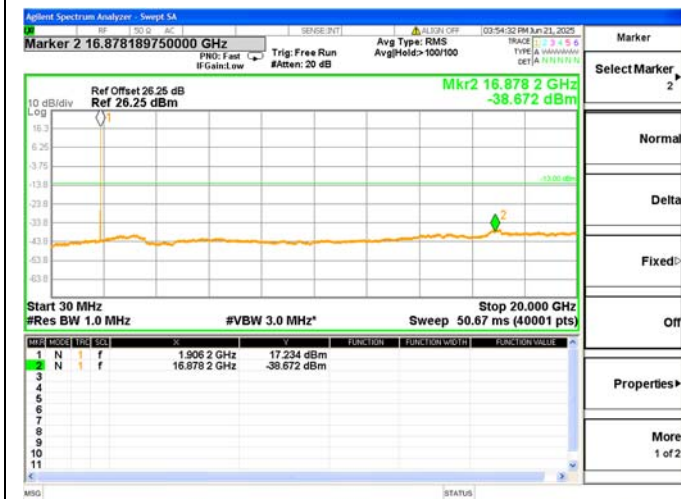
WCDMA Band II, CH9262, 1852.4MHz



WCDMA Band II, CH9400, 1880.0MHz



WCDMA Band II, CH9538, 1907.6MHz



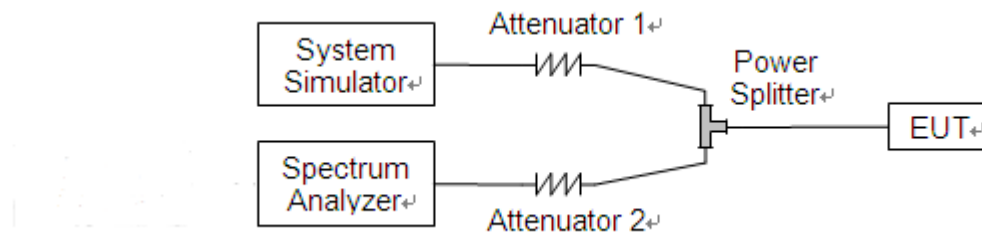
2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(a), 24.238(a) and 27.53(h) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \cdot \log(P)$ dB.

2.6.2. Test Description

Test Setup:



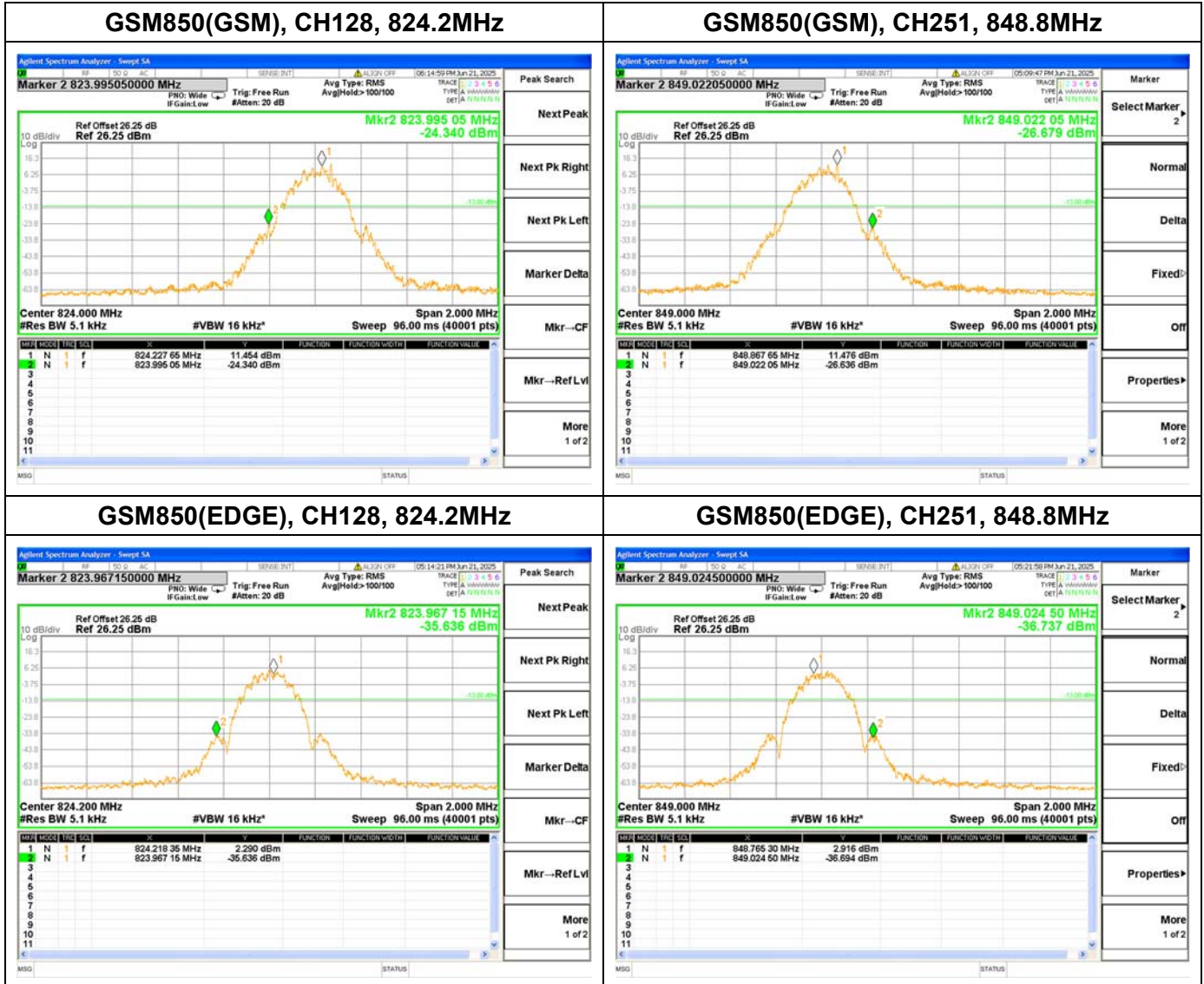
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

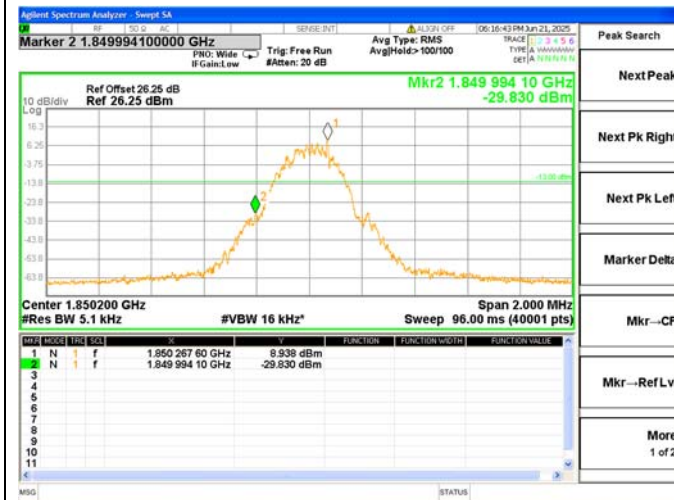
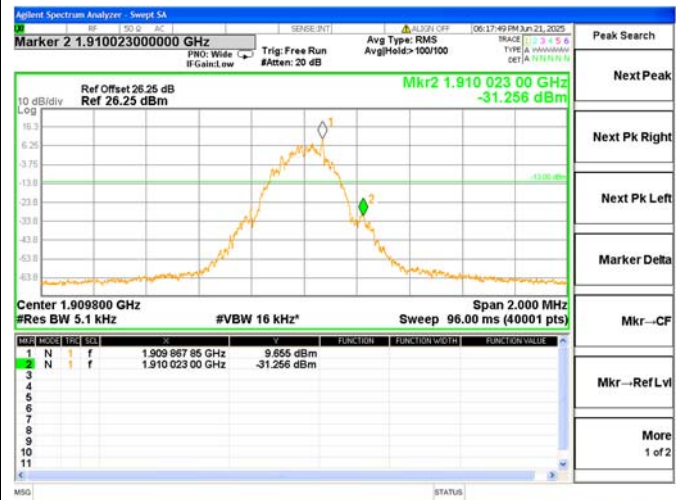
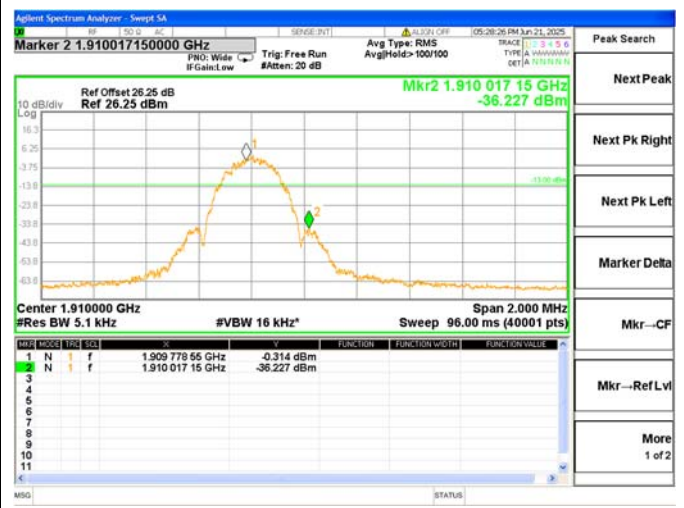




2.6.3. Test Result

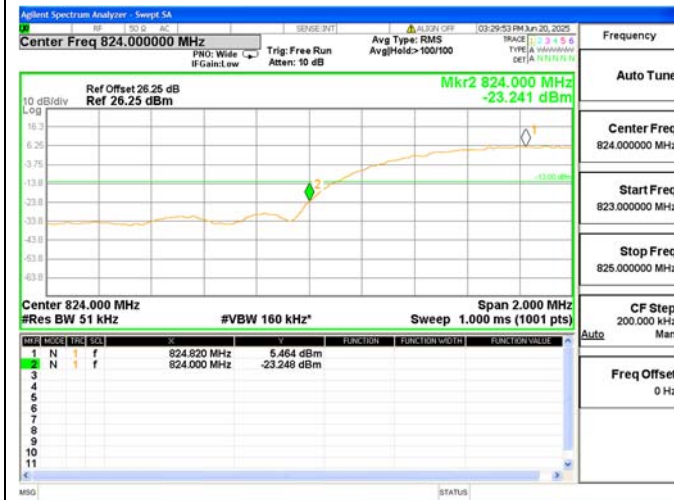
The lowest and highest channels are tested to verify the band edge emissions.



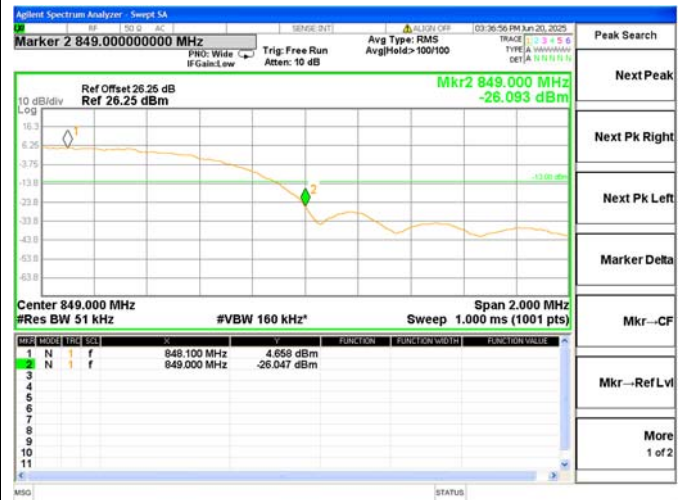
**GSM1900(GSM), CH512, 1850.2MHz****GSM1900(GSM), CH810, 1909.8MHz****GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH810, 1909.8MHz**



WCDMA Band V, CH4132, 826.4MHz



WCDMA Band V, CH4233, 846.6MHz



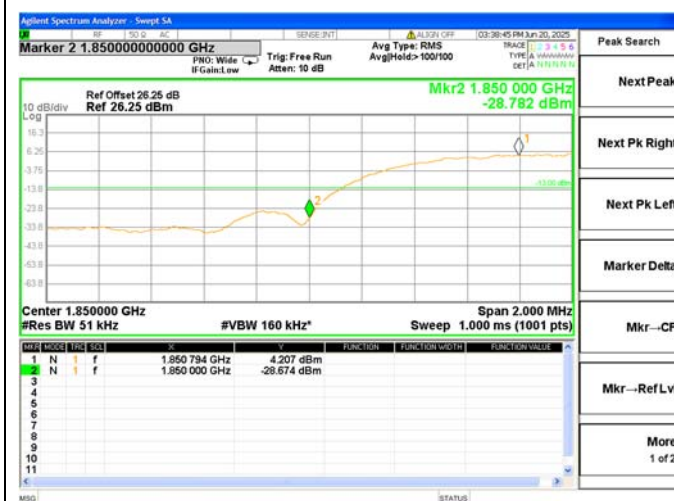
WCDMA Band IV, CH1312, 1712.4MHz



WCDMA Band IV, CH1513, 1752.6MHz



WCDMA Band II, CH9262, 1852.4MHz



WCDMA Band II, CH9538, 1907.6MHz



2.7. Determining E.R.P. and/or E.I.R.P. from conducted RF output power measurements

2.7.1. Requirement

According to FCC section 22.913, the Effective Radiated Power (E.R.P.) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

According to FCC section 27.50, mobile, and portable (hand-held) stations is limited to 1 Watts e.i.r.p. peak power.

2.7.2. Test Description

The test setups refer to section 2.1.3

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded. Please refer to section 2.1.3 of this report.

The relevant equation for determining the maximum E.R.P. or E.I.R.P. from the measured RF output power is given in Equation (1) as follows:

$$\text{E.R.P. or E.I.R.P.} = P_{\text{Meas}} + G_{\text{T}}$$

Where:

E.R.P. or E.I.R.P. effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_{T} gain of the transmitting antenna, in dBd (E.R.P.) or dBi (E.I.R.P.)

For devices utilizing multiple antennas, see ANSI C63.25-2015 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between E.R.P. and E.I.R.P.:

a) E.R.P. = E.I.R.P. - 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.

b) E.I.R.P. = E.R.P. + 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.



**2.7.3.Test Result**

GSM850								
Band	Channel	Frequency (MHz)	PCL	Measured E.R.P.		Limit		Verdict
				dBm	W	dBm	W	
GSM	128	824.20	5	27.10	0.513	38.5	7	PASS
	189	836.40	5	27.11	0.514			PASS
	251	848.80	5	27.21	0.526			PASS
GPRS	128	824.20	5	27.08	0.511	38.5	7	PASS
	189	836.40	5	27.08	0.511			PASS
	251	848.80	5	27.17	0.521			PASS
EDGE	128	824.20	5	21.09	0.129	38.5	7	PASS
	189	836.40	5	21.20	0.132			PASS
	251	848.80	5	21.06	0.128			PASS
Note 1: For the GPRS and EDGE mode, all the slots were tested and just the worst data were recorded in this report.								

GSM1900								
Band	Channel	Frequency (MHz)	PCL	Measured E.I.R.P.		Limit		Verdict
				dBm	W	dBm	W	
GSM	512	1850.2	0	28.31	0.678	33	2	PASS
	661	1880.0	0	28.23	0.665			PASS
	810	1909.8	0	28.22	0.664			PASS
GPRS	512	1850.2	0	28.28	0.673	33	2	PASS
	661	1880.0	0	28.21	0.662			PASS
	810	1909.8	0	28.20	0.661			PASS
EDGE	512	1850.2	0	23.86	0.243	33	2	PASS
	661	1880.0	0	23.94	0.248			PASS
	810	1909.8	0	23.90	0.245			PASS
Note 1: For the GPRS and EDGE mode, all the slots were tested and just the worst data were recorded in this report.								





WCDMA Band V							
Band	Channel	Frequency (MHz)	Measured E.R.P.		Limit		Verdict
			dBm	W	dBm	W	
WCDMA	4132	826.4	19.87	0.097	38.5	7	PASS
	4182	836.4	19.92	0.098			PASS
	4233	846.6	19.86	0.097			PASS
HSDPA	4132	826.4	18.46	0.070	38.5	7	PASS
	4182	836.4	18.45	0.070			PASS
	4233	846.6	18.47	0.070			PASS
DC-HSD PA	4132	826.4	18.99	0.079	38.5	7	PASS
	4182	836.4	19.12	0.082			PASS
	4233	846.6	18.48	0.070			PASS
HSUPA	4132	826.4	19.04	0.080	38.5	7	PASS
	4182	836.4	19.16	0.082			PASS
	4233	846.6	18.98	0.079			PASS
HSPA+	4132	826.4	19.03	0.080	38.5	7	PASS
	4182	836.4	19.07	0.081			PASS
	4233	846.6	19.01	0.080			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							





WCDMA Band IV							
Band	Channel	Frequency (MHz)	Measured E.I.R.P.		Limit		Verdict
			dBm	W	dBm	W	
WCDMA	1312	1712.4	25.88	0.387	30	1	PASS
	1413	1732.6	25.88	0.389			PASS
	1513	1752.6	25.88	0.385			PASS
HSDPA	1312	1712.4	24.91	0.310	30	1	PASS
	1413	1732.6	25.00	0.316			PASS
	1513	1752.6	24.94	0.312			PASS
DC-HSD PA	1312	1712.4	24.95	0.313	30	1	PASS
	1413	1732.6	25.04	0.319			PASS
	1513	1752.6	25.01	0.317			PASS
HSUPA	1312	1712.4	25.01	0.317	30	1	PASS
	1413	1732.6	25.06	0.321			PASS
	1513	1752.6	25.01	0.317			PASS
HSPA+	1312	1712.4	24.98	0.315	30	1	PASS
	1413	1732.6	25.00	0.316			PASS
	1513	1752.6	24.96	0.313			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							





WCDMA Band II							
Band	Channel	Frequency (MHz)	Measured E.I.R.P.		Limit		Verdict
			dBm	W	dBm	W	
WCDMA	9262	1852.4	21.76	0.150	33	2	PASS
	9400	1880.0	21.83	0.152			PASS
	9538	1907.6	21.77	0.150			PASS
HSDPA	9262	1852.4	20.30	0.107	33	2	PASS
	9400	1880.0	20.22	0.105			PASS
	9538	1907.6	20.20	0.105			PASS
DC-HSD PA	9262	1852.4	20.83	0.108	33	2	PASS
	9400	1880.0	20.72	0.106			PASS
	9538	1907.6	20.25	0.106			PASS
HSUPA	9262	1852.4	20.82	0.108	33	2	PASS
	9400	1880.0	20.79	0.107			PASS
	9538	1907.6	20.75	0.107			PASS
HSUP+	9262	1852.4	20.92	0.124	33	2	PASS
	9400	1880.0	20.82	0.121			PASS
	9538	1907.6	20.76	0.119			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							

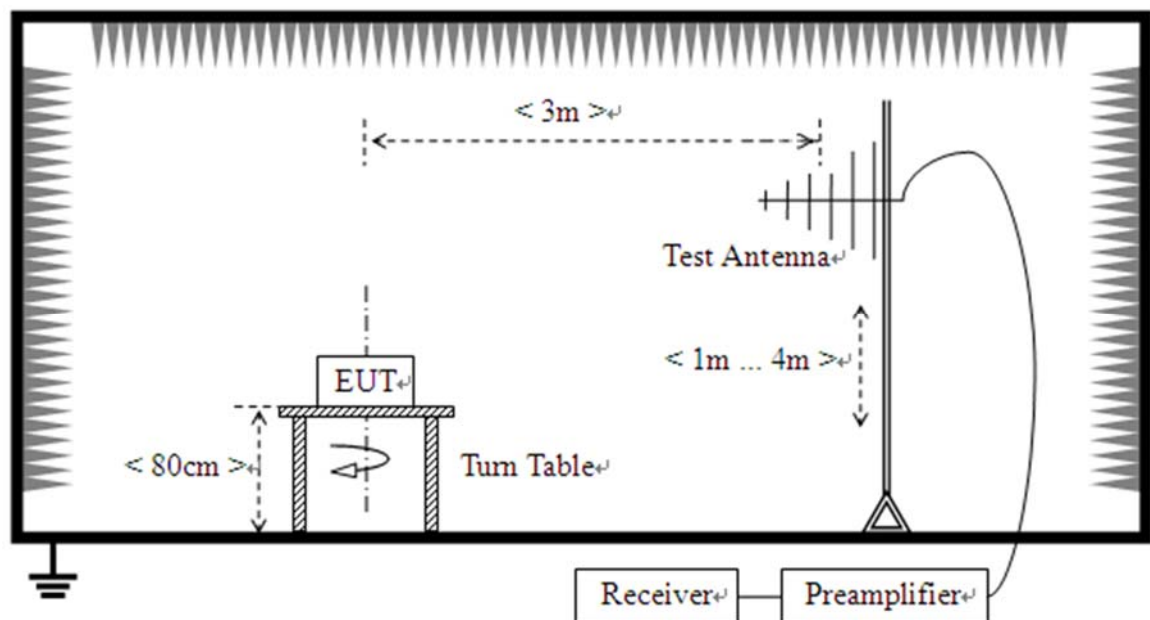


2.8. Radiated Out of Band Emissions

2.8.1. Requirement

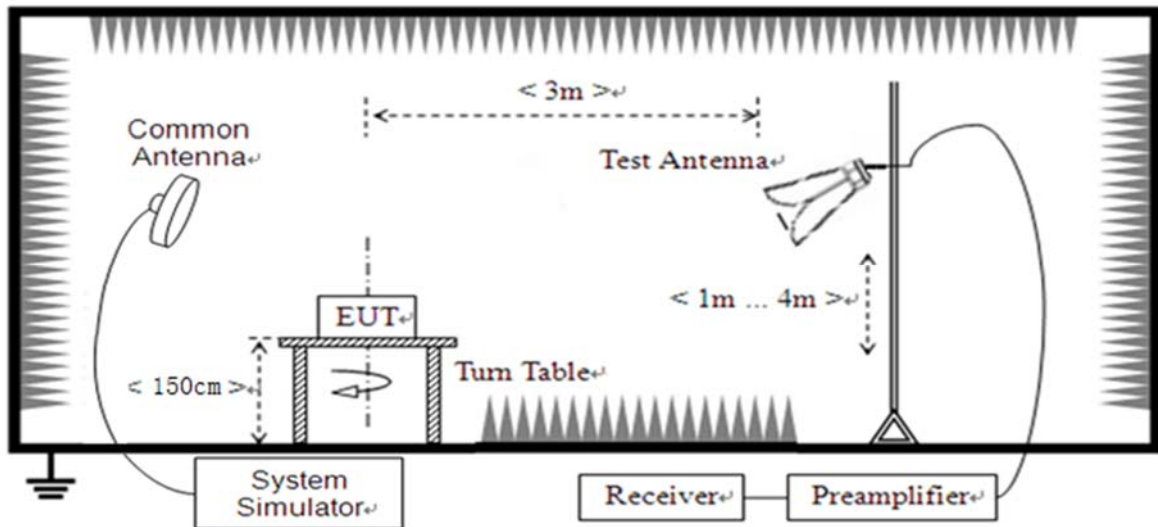
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

2.8.2. Test Description



(For the test frequency from 30MHz to 1GHz)





(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: When doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3. Test Procedure

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.



2.8.4.Test Result

Note1: The power of the EUT transmitting frequency should be ignored.

Note2: All test mode and condition mentioned were considered and evaluated respectively by performing full test, only the worst data were recorded and reported.

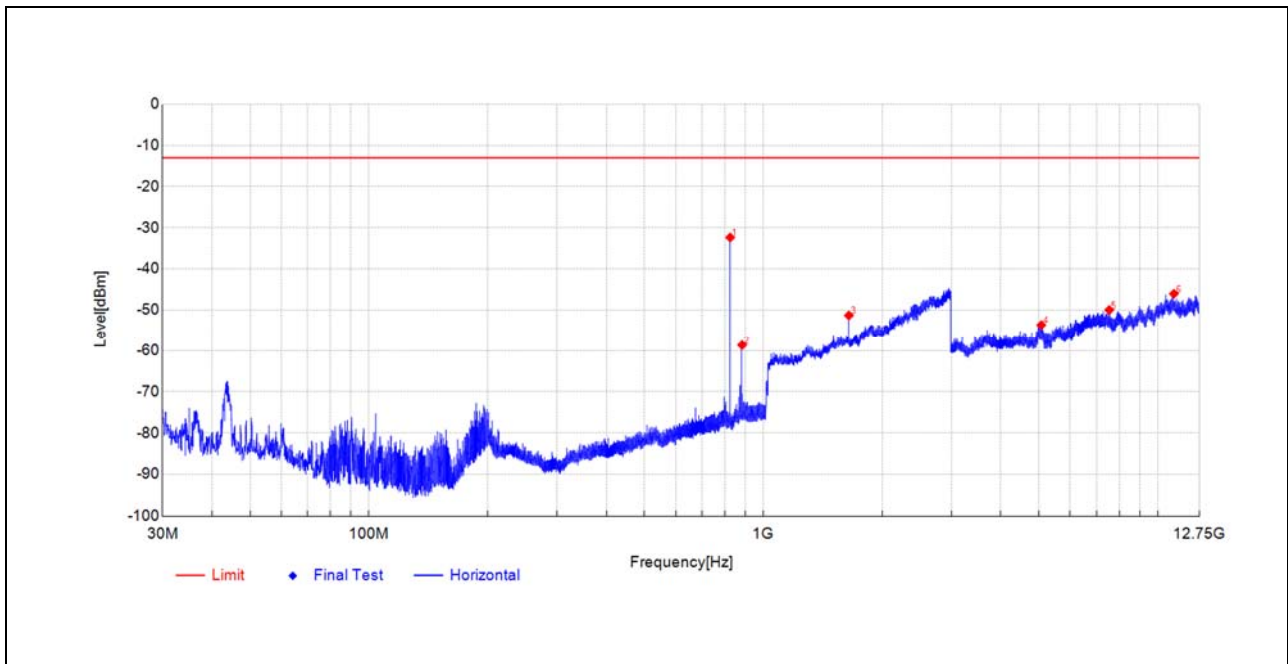
Note3: All spurious emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note4: NA means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

Note5: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

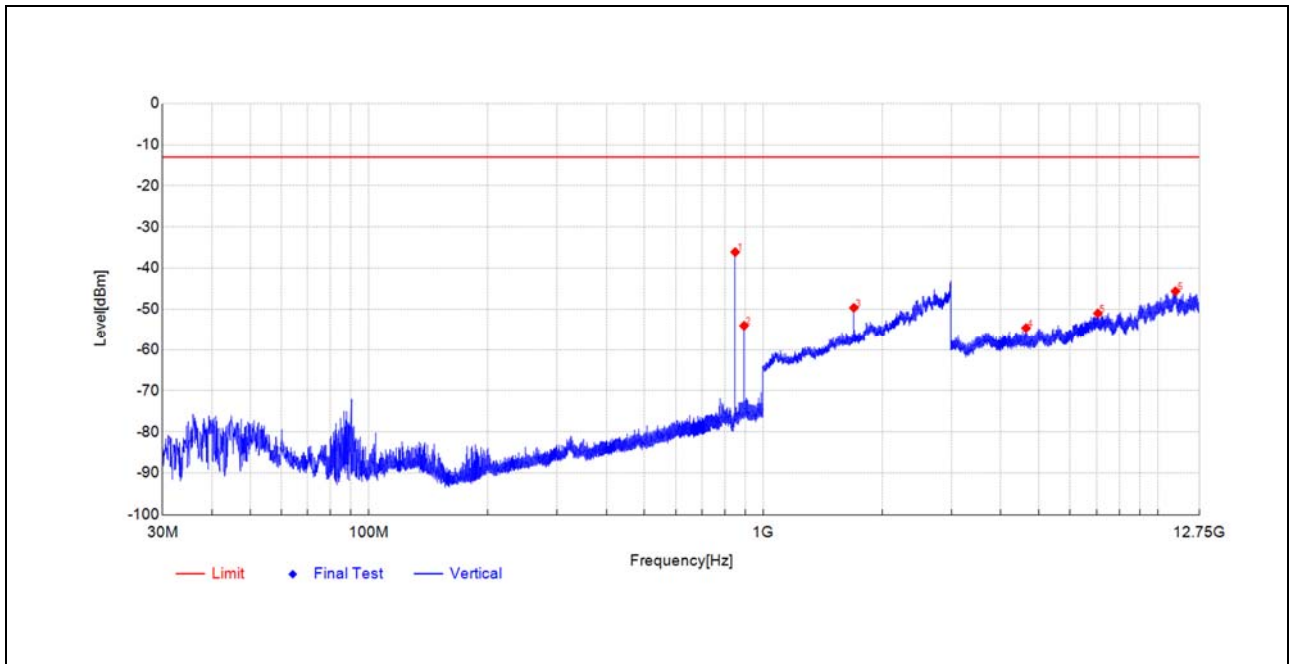
GSM850(GSM)

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
824.2272	-26.54	-32.34	-5.8	-	-	Horizontal	PK	NA
883.8367	-53.94	-58.67	-4.7	-	-	Horizontal	PK	NA
1648.1296	-53.96	-51.31	2.7	-13.0	38.3	Horizontal	PK	PASS
5069.541	-59.72	-53.65	6.1	-13.0	40.7	Horizontal	PK	PASS
7535.4393	-62.15	-49.96	12.2	-13.0	37.0	Horizontal	PK	PASS
10990.037	-67.00	-46.03	21.0	-13.0	33.0	Horizontal	PK	PASS

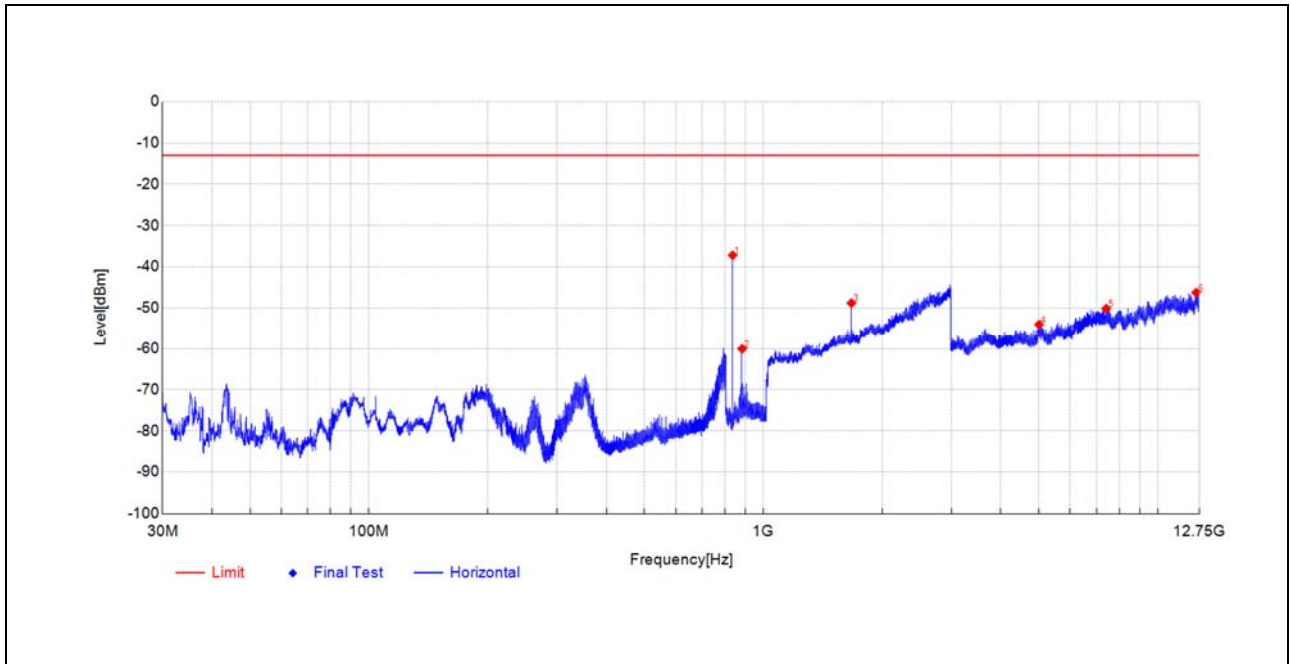




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
848.7694	-30.54	-36.07	-5.5	-	-	Vertical	PK	NA
893.7797	-49.57	-54.00	-4.4	-	-	Vertical	PK	NA
1697.3395	-52.70	-49.61	3.1	-13.0	36.6	Vertical	PK	PASS
4637.1069	-57.61	-54.57	3.0	-13.0	41.6	Vertical	PK	PASS
7052.3026	-62.10	-50.98	11.1	-13.0	38.0	Vertical	PK	PASS
11093.392	-67.97	-45.59	22.4	-13.0	32.6	Vertical	PK	PASS

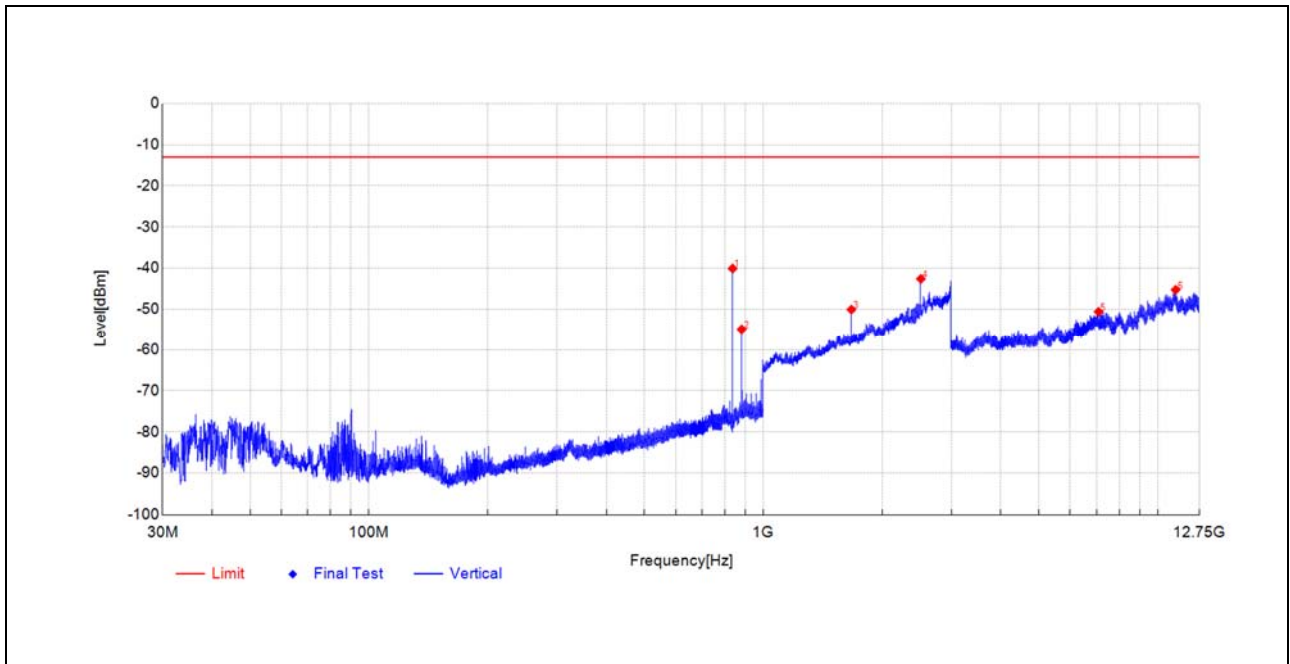


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
836.4013	-31.63	-37.17	-5.5	-	-	Horizontal	PK	NA
883.8852	-55.31	-60.04	-4.7	-	-	Horizontal	PK	NA
1672.5345	-51.25	-48.75	2.5	-13.0	35.8	Horizontal	PK	PASS
5002.7501	-60.08	-53.98	6.1	-13.0	41.0	Horizontal	PK	PASS
7404.7827	-62.60	-50.10	12.5	-13.0	37.1	Horizontal	PK	PASS
12518.425	-69.61	-46.21	23.4	-13.0	33.2	Horizontal	PK	PASS



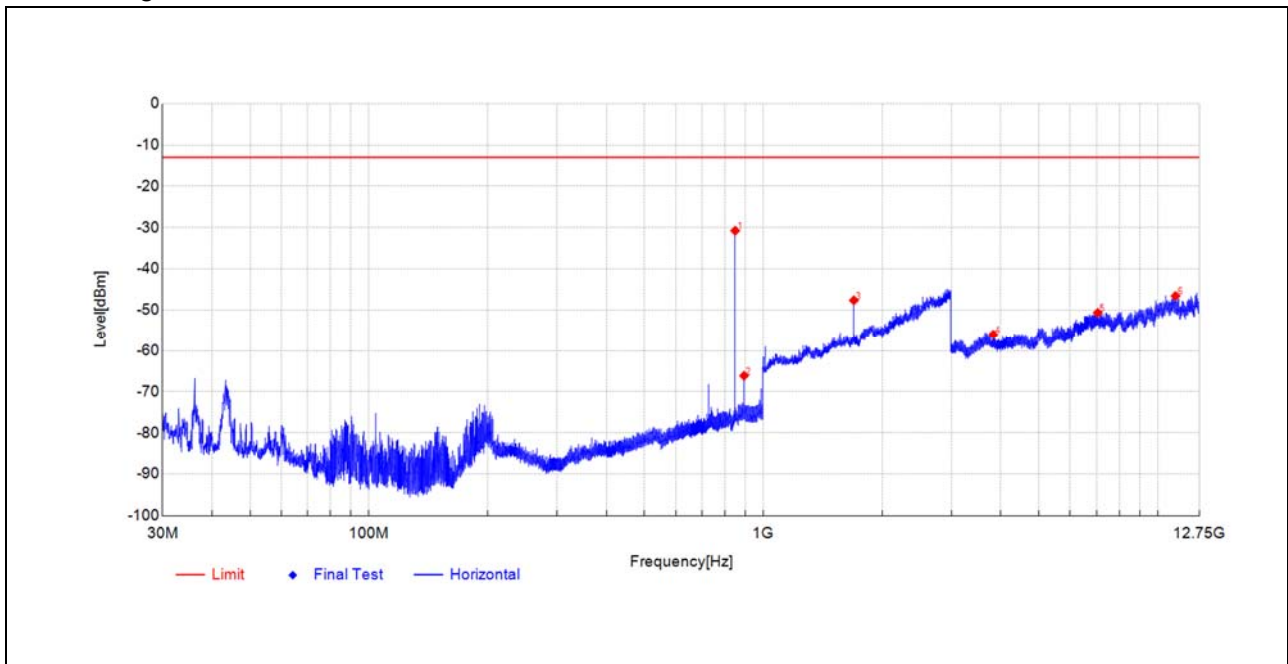


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
836.3043	-34.24	-40.07	-5.8	-	-	Vertical	PK	NA
881.4601	-50.41	-54.88	-4.5	-	-	Vertical	PK	NA
1672.5345	-52.80	-50.06	2.7	-13.0	37.1	Vertical	PK	PASS
2509.5019	-52.43	-42.58	9.9	-13.0	29.6	Vertical	PK	PASS
7082.0416	-61.64	-50.59	11.1	-13.0	37.6	Vertical	PK	PASS
11103.630	-67.60	-45.24	22.4	-13.0	32.2	Vertical	PK	PASS



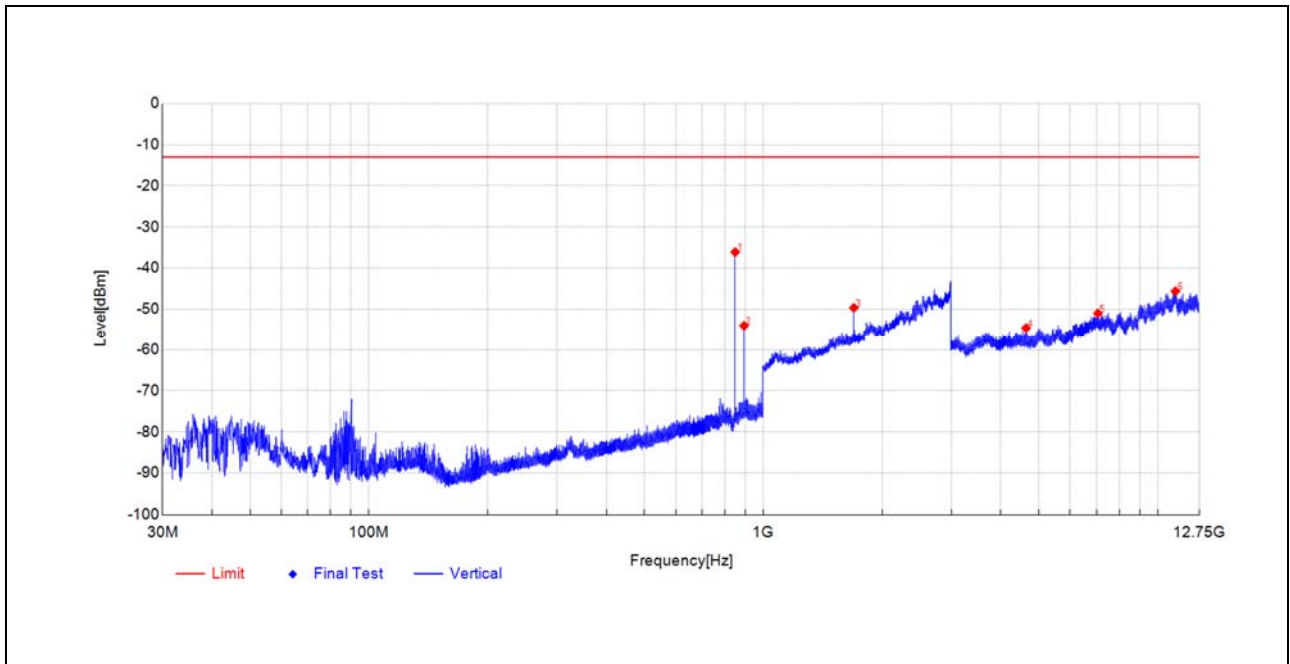


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
848.8664	-25.55	-30.74	-5.2	-	-	Horizontal	PK	NA
893.8282	-61.45	-66.12	-4.7	-	-	Horizontal	PK	NA
1697.7395	-50.53	-47.60	2.9	-13.0	34.6	Horizontal	PK	PASS
3829.7665	-56.92	-55.98	0.9	-13.0	43.0	Horizontal	PK	PASS
7046.9398	-62.50	-50.63	11.9	-13.0	37.6	Horizontal	PK	PASS
11097.779	-66.57	-46.55	20.0	-13.0	33.6	Horizontal	PK	PASS



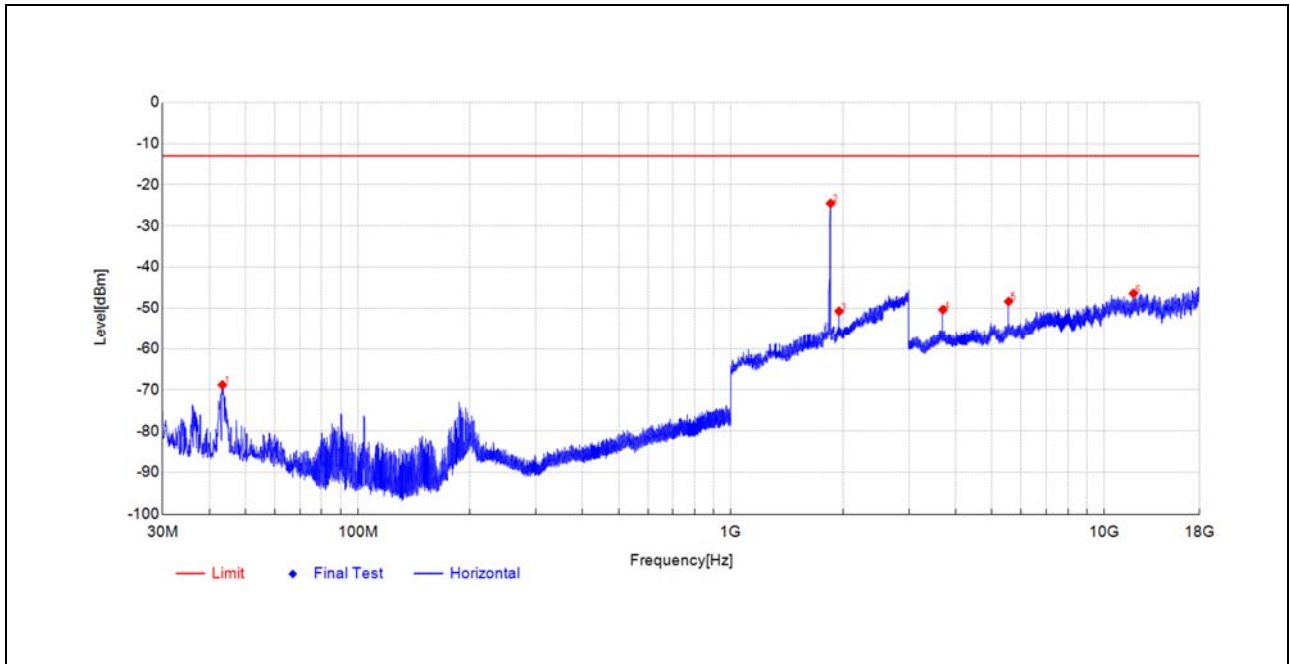


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
848.7694	-30.54	-36.07	-5.5	-	-	Vertical	PK	NA
893.7797	-49.57	-54.00	-4.4	-	-	Vertical	PK	NA
1697.3395	-52.70	-49.61	3.1	-13.0	36.6	Vertical	PK	PASS
4637.1069	-57.61	-54.57	3.0	-13.0	41.6	Vertical	PK	PASS
7052.3026	-62.10	-50.98	11.1	-13.0	38.0	Vertical	PK	PASS
11093.392	-67.97	-45.59	22.4	-13.0	32.6	Vertical	PK	PASS



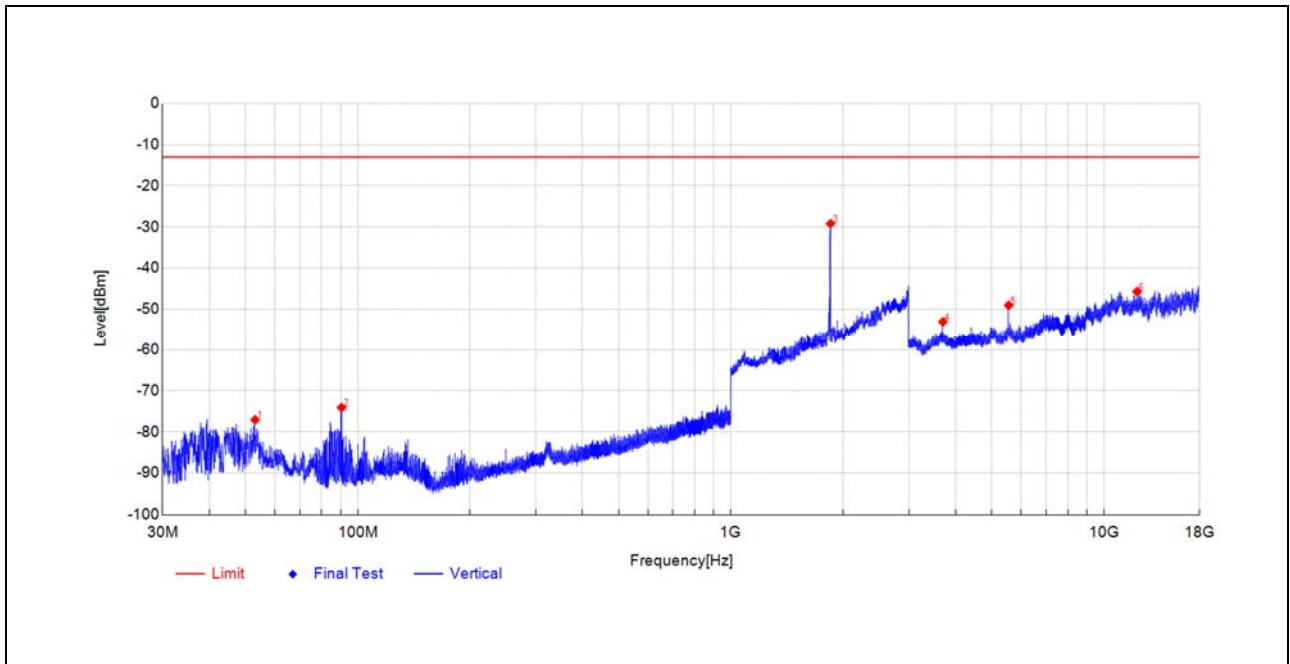
**GSM1900(GSM)**

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.3867	-53.47	-68.81	-15.3	-13.0	55.8	Horizontal	PK	PASS
1850.17	-28.80	-24.52	4.3	-	-	Horizontal	PK	NA
1949.79	-55.07	-50.73	4.3	-	-	Horizontal	PK	NA
3700.3858	-52.13	-50.35	1.8	-13.0	37.4	Horizontal	PK	PASS
5550.793	-55.01	-48.35	6.7	-13.0	35.4	Horizontal	PK	PASS
11989.679	-67.67	-46.39	21.3	-13.0	33.4	Horizontal	PK	PASS

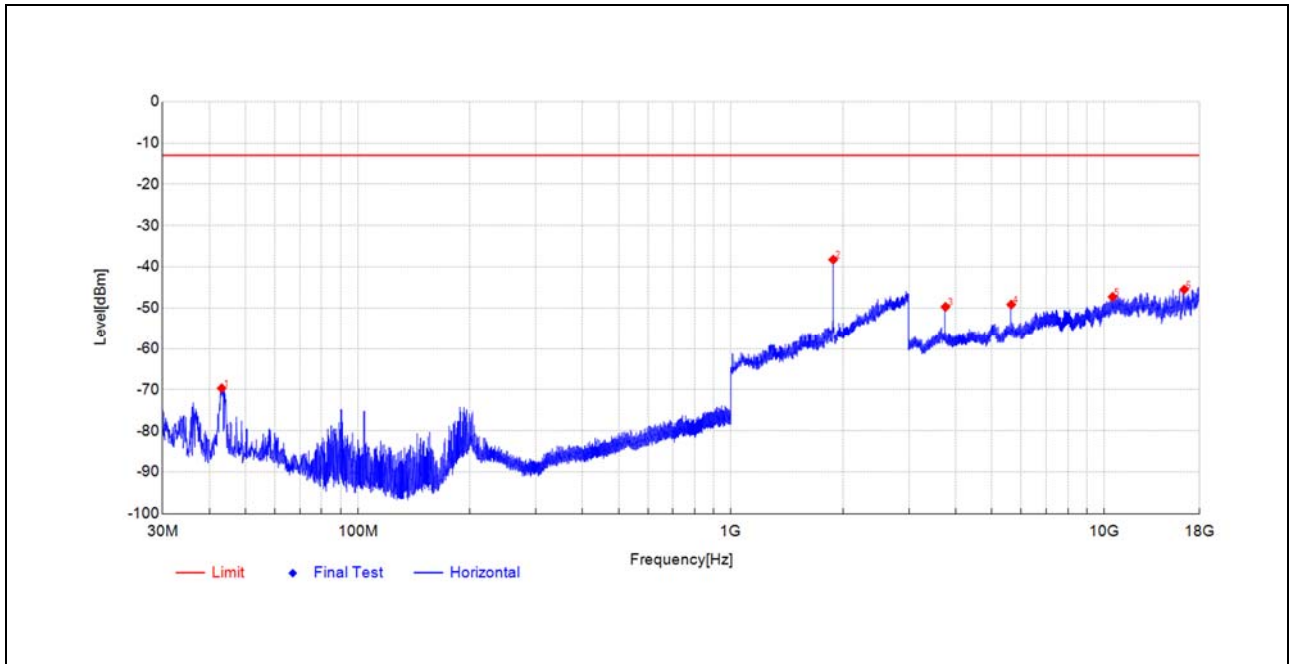




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
53.0872	-59.47	-77.05	-17.6	-13.0	64.1	Vertical	PK	PASS
90.4825	-51.81	-74.09	-22.3	-13.0	61.1	Vertical	PK	PASS
1850.17	-33.49	-29.17	4.3	-	-	Vertical	PK	NA
3700.3858	-54.79	-53.02	1.8	-13.0	40.0	Vertical	PK	PASS
5551.2216	-55.38	-49.02	6.4	-13.0	36.0	Vertical	PK	PASS
12258.970	-67.95	-45.66	22.3	-13.0	32.7	Vertical	PK	PASS

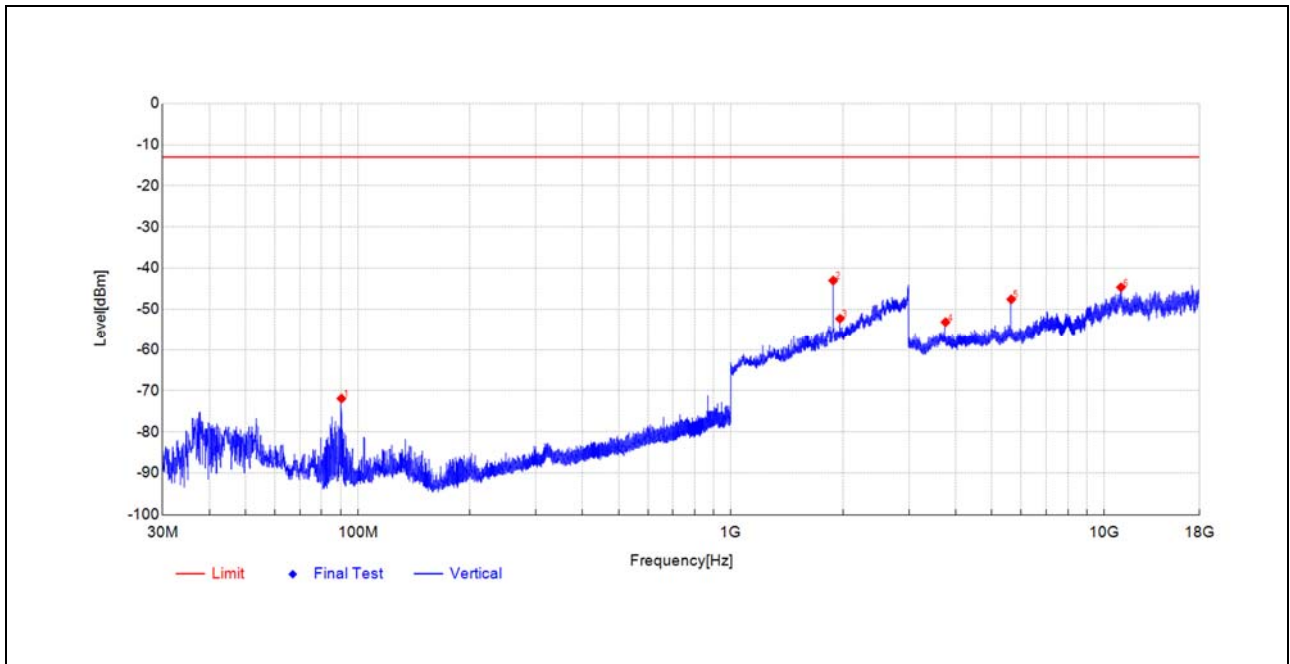


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.1927	-54.31	-69.65	-15.3	-13.0	56.7	Horizontal	PK	PASS
1879.776	-43.52	-38.24	5.3	-	-	Horizontal	PK	NA
3759.9657	-50.86	-49.68	1.2	-13.0	36.7	Horizontal	PK	PASS
5639.9486	-56.22	-49.12	7.1	-13.0	36.1	Horizontal	PK	PASS
10543.861	-66.60	-47.25	19.4	-13.0	34.3	Horizontal	PK	PASS
16397.215	-71.20	-45.48	25.7	-13.0	32.5	Horizontal	PK	PASS

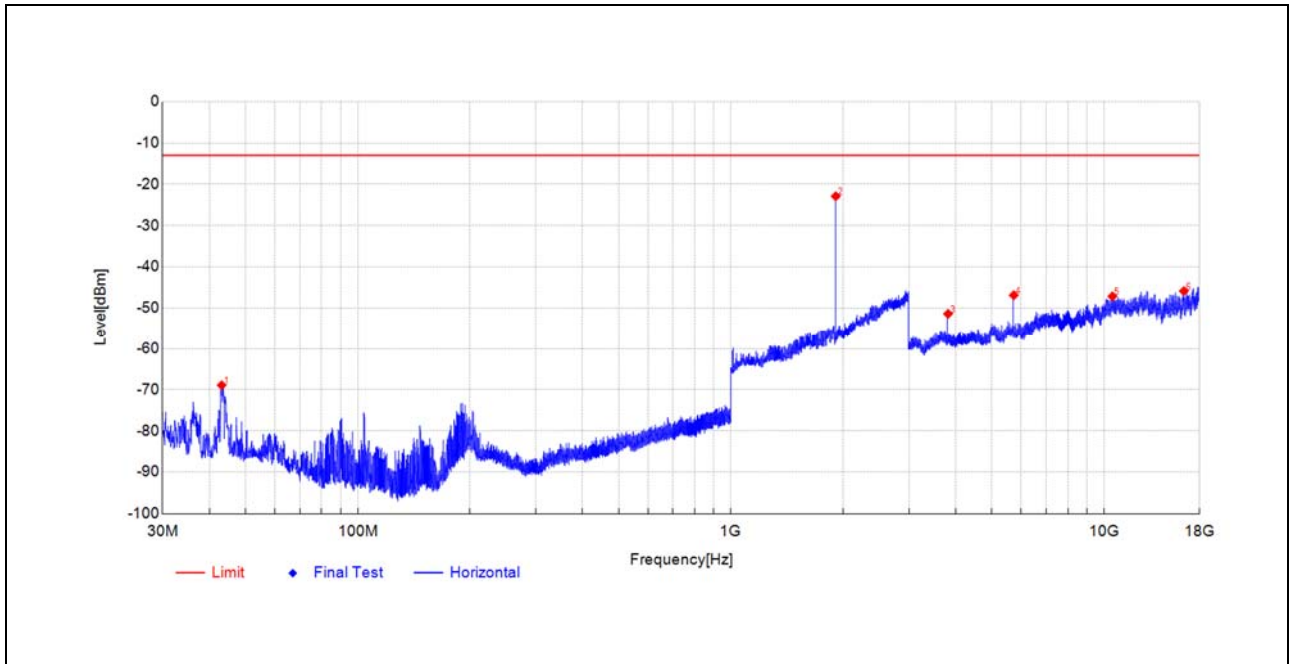




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.434	-49.61	-71.89	-22.3	-13.0	58.9	Vertical	PK	PASS
1880.176	-48.11	-43.00	5.1	-	-	Vertical	PK	NA
1960.192	-56.47	-52.26	4.2	-	-	Vertical	PK	NA
3759.9657	-54.20	-53.12	1.1	-13.0	40.1	Vertical	PK	PASS
5640.3772	-54.26	-47.56	6.7	-13.0	34.6	Vertical	PK	PASS
11101.164	-66.58	-44.64	21.9	-13.0	31.6	Vertical	PK	PASS

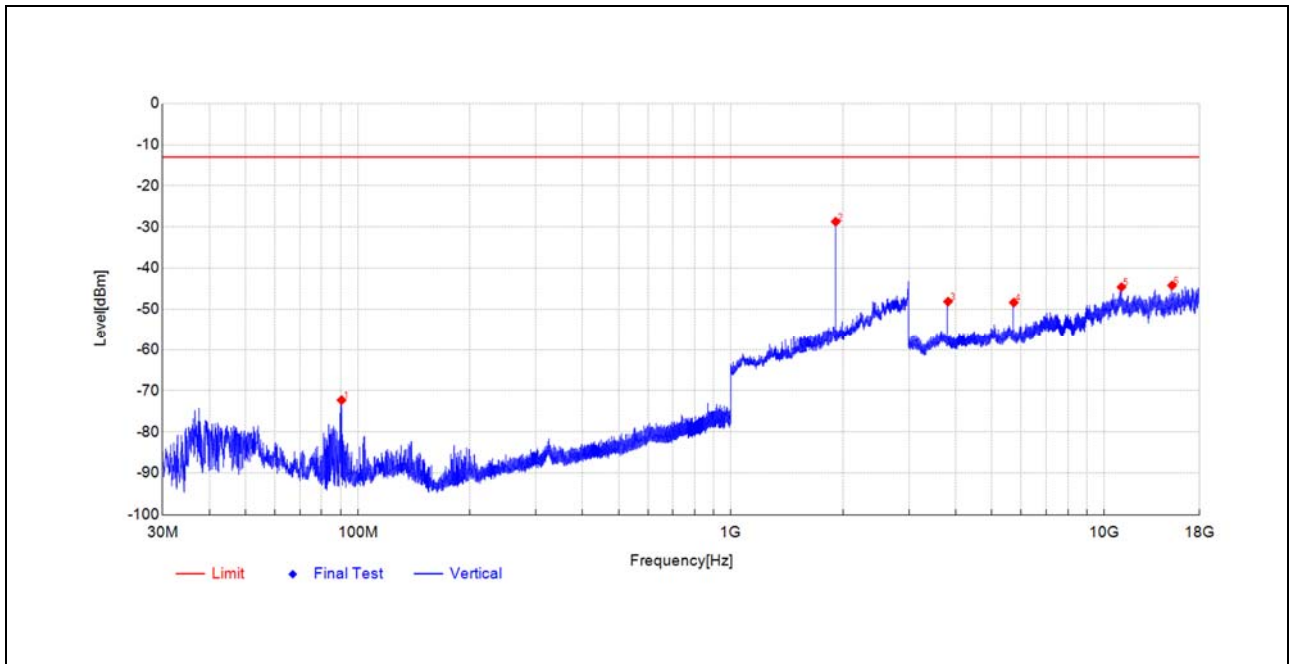


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.1927	-53.56	-68.90	-15.3	-13.0	55.9	Horizontal	PK	PASS
1909.782	-27.12	-22.89	4.2	-	-	Horizontal	PK	NA
3819.5456	-52.24	-51.36	0.9	-13.0	38.4	Horizontal	PK	PASS
5729.5328	-54.28	-46.85	7.4	-13.0	33.9	Horizontal	PK	PASS
10531.861	-66.47	-47.12	19.4	-13.0	34.1	Horizontal	PK	PASS
16364.574	-71.07	-45.84	25.2	-13.0	32.8	Horizontal	PK	PASS





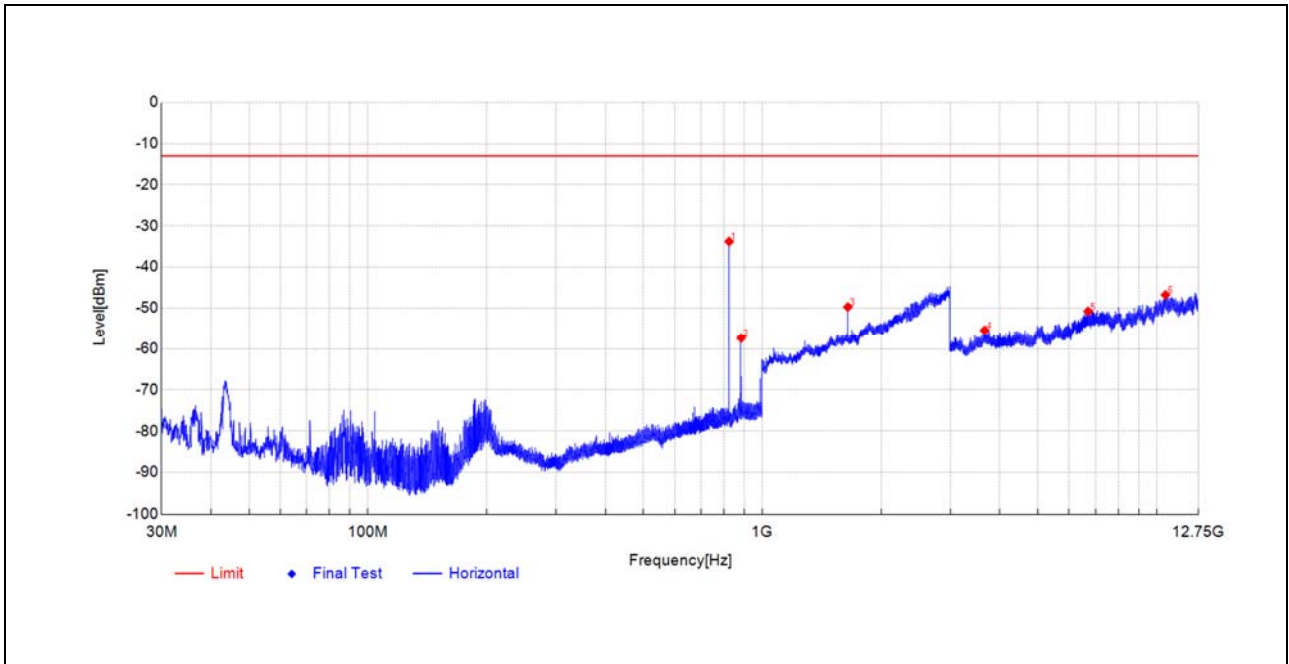
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.4825	-50.01	-72.29	-22.3	-13.0	59.3	Vertical	PK	PASS
1909.782	-33.53	-28.68	4.9	-	-	Vertical	PK	NA
3819.5456	-48.81	-48.11	0.7	-13.0	35.1	Vertical	PK	PASS
5729.9614	-54.89	-48.34	6.6	-13.0	35.3	Vertical	PK	PASS
11137.165	-66.32	-44.57	21.8	-13.0	31.6	Vertical	PK	PASS
15220.208	-69.13	-44.17	25.0	-13.0	31.2	Vertical	PK	PASS





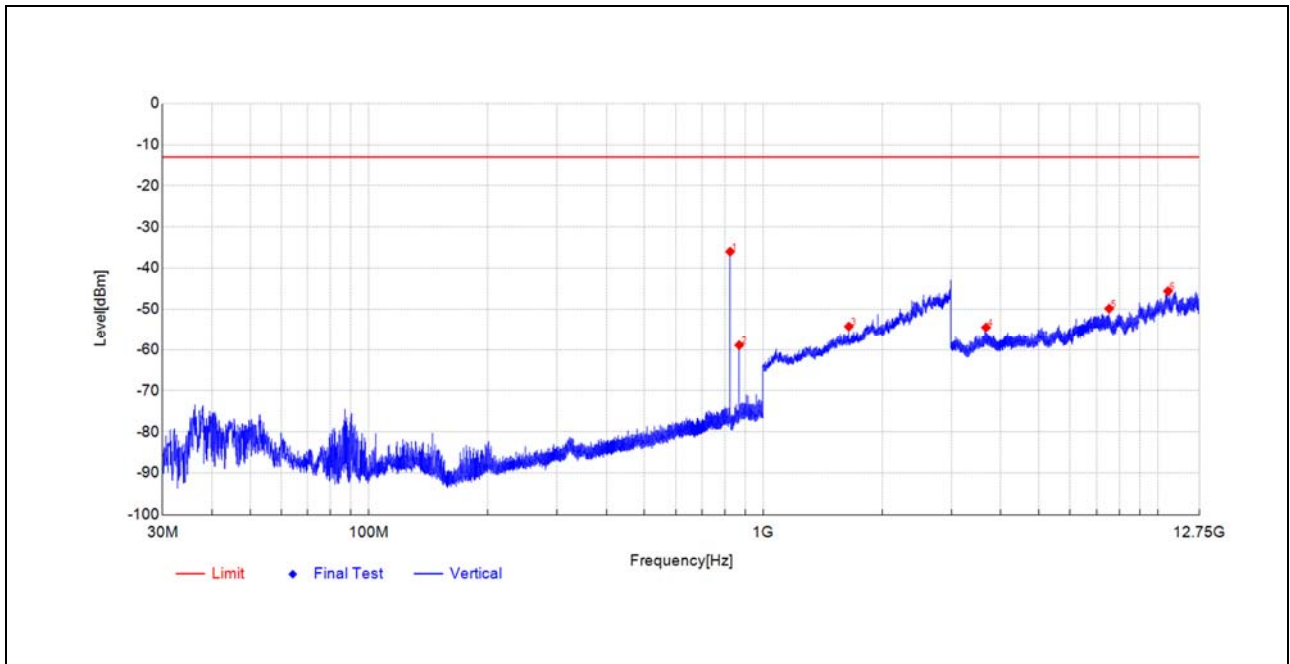
GSM850(EDGE)

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
824.1787	-27.97	-33.77	-5.8	-	-	Horizontal	PK	NA
883.9822	-52.65	-57.37	-4.7	-	-	Horizontal	PK	NA
1648.1296	-52.36	-49.71	2.7	-13.0	36.7	Horizontal	PK	PASS
3663.5207	-57.16	-55.43	1.7	-13.0	42.4	Horizontal	PK	PASS
6697.3849	-62.20	-50.78	11.4	-13.0	37.8	Horizontal	PK	PASS
10528.351	-66.53	-46.75	19.8	-13.0	33.8	Horizontal	PK	PASS

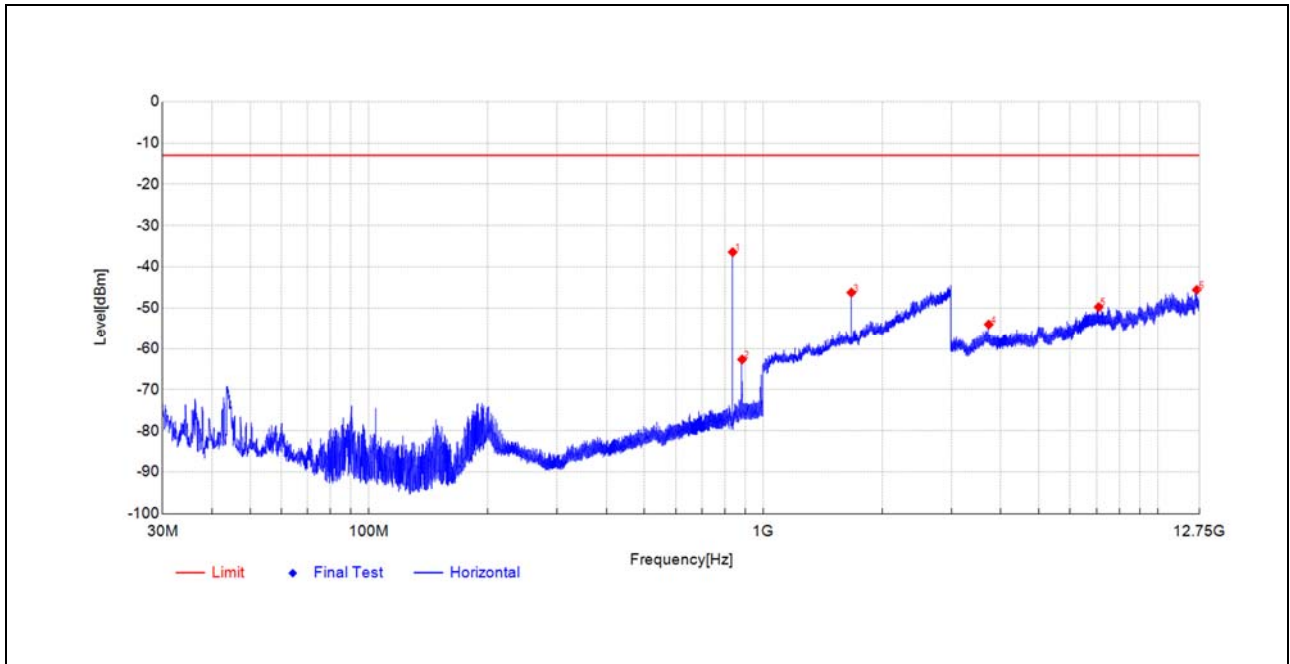




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
824.1787	-30.09	-35.98	-5.9	-	-	Vertical	PK	NA
869.2375	-54.02	-58.89	-4.9	-	-	Vertical	PK	NA
1648.1296	-56.68	-54.20	2.5	-13.0	41.2	Vertical	PK	PASS
3671.3211	-56.12	-54.43	1.7	-13.0	41.4	Vertical	PK	PASS
7534.4642	-61.55	-49.81	11.7	-13.0	36.8	Vertical	PK	PASS
10621.956	-65.62	-45.57	20.1	-13.0	32.6	Vertical	PK	PASS

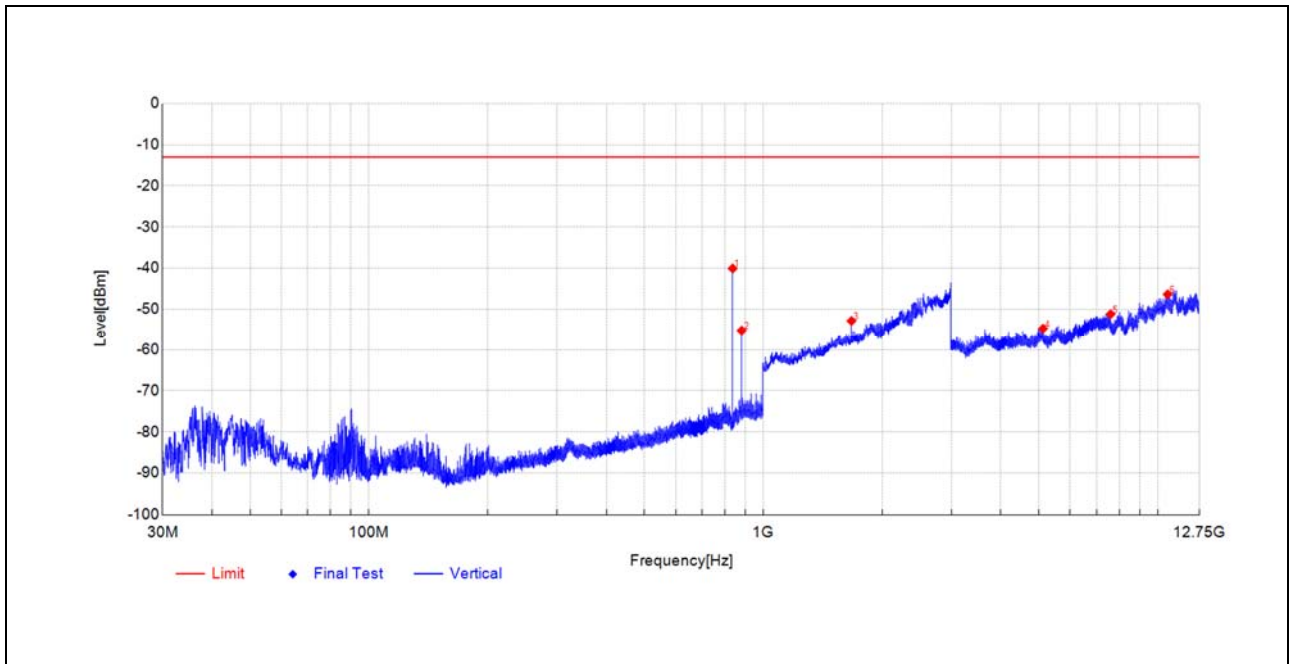


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
836.4498	-30.88	-36.41	-5.5	-	-	Horizontal	PK	NA
884.0307	-57.93	-62.65	-4.7	-	-	Horizontal	PK	NA
1672.9346	-48.71	-46.21	2.5	-13.0	33.2	Horizontal	PK	PASS
3730.3115	-55.43	-53.95	1.5	-13.0	41.0	Horizontal	PK	PASS
7084.9667	-61.79	-49.73	12.1	-13.0	36.7	Horizontal	PK	PASS
12563.765	-68.83	-45.54	23.3	-13.0	32.5	Horizontal	PK	PASS

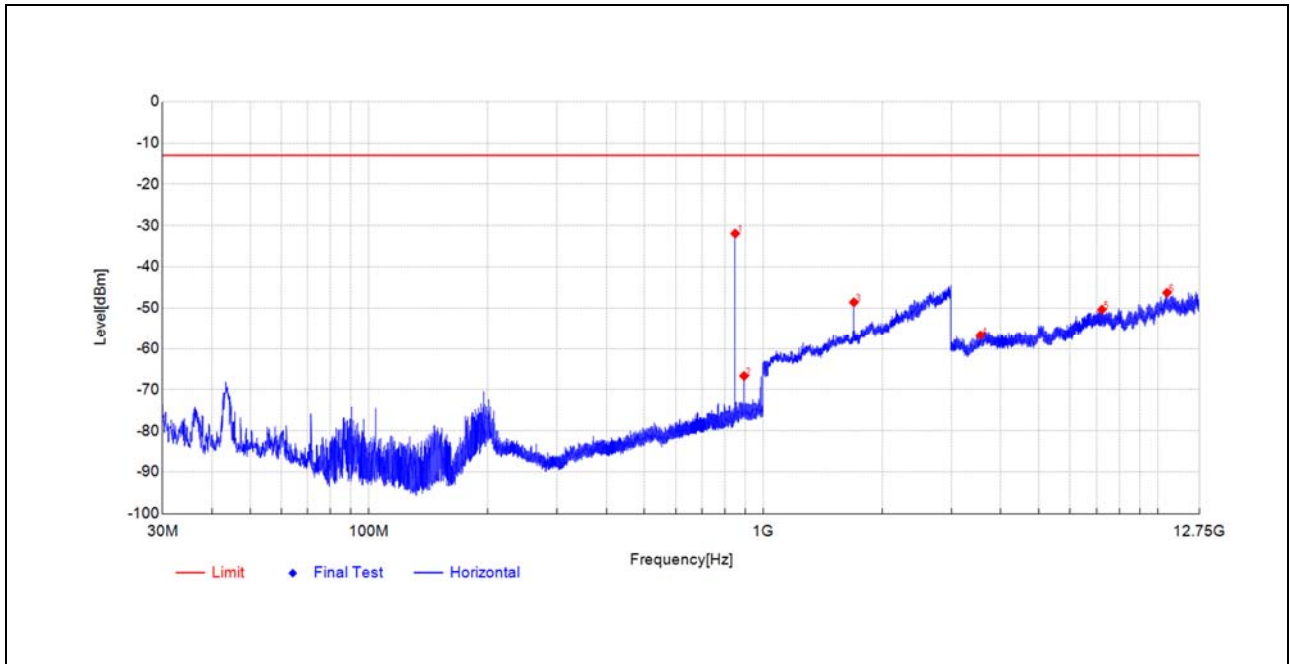




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
836.4013	-34.23	-40.06	-5.8	-	-	Vertical	PK	NA
881.4116	-50.70	-55.17	-4.5	-	-	Vertical	PK	NA
1673.3347	-55.59	-52.82	2.8	-13.0	39.8	Vertical	PK	PASS
5119.2685	-60.05	-54.70	5.4	-13.0	41.7	Vertical	PK	PASS
7592.4796	-62.37	-51.17	11.2	-13.0	38.2	Vertical	PK	PASS
10596.604	-66.55	-46.35	20.2	-13.0	33.4	Vertical	PK	PASS

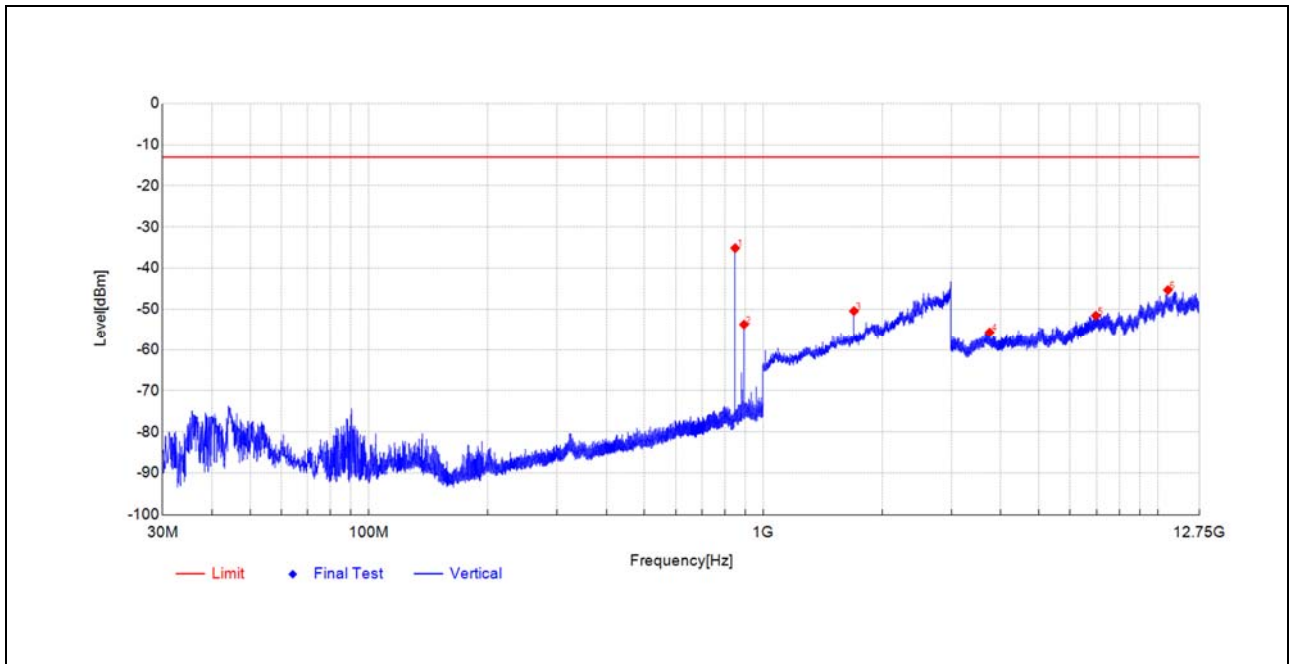


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
848.8664	-26.72	-31.91	-5.2	-	-	Horizontal	PK	NA
893.8767	-62.00	-66.67	-4.7	-	-	Horizontal	PK	NA
1697.3395	-51.49	-48.57	2.9	-13.0	35.6	Horizontal	PK	PASS
3551.8776	-58.03	-56.67	1.4	-13.0	43.7	Horizontal	PK	PASS
7221.9611	-62.52	-50.33	12.2	-13.0	37.3	Horizontal	PK	PASS
10559.553	-65.90	-46.26	19.6	-13.0	33.3	Horizontal	PK	PASS



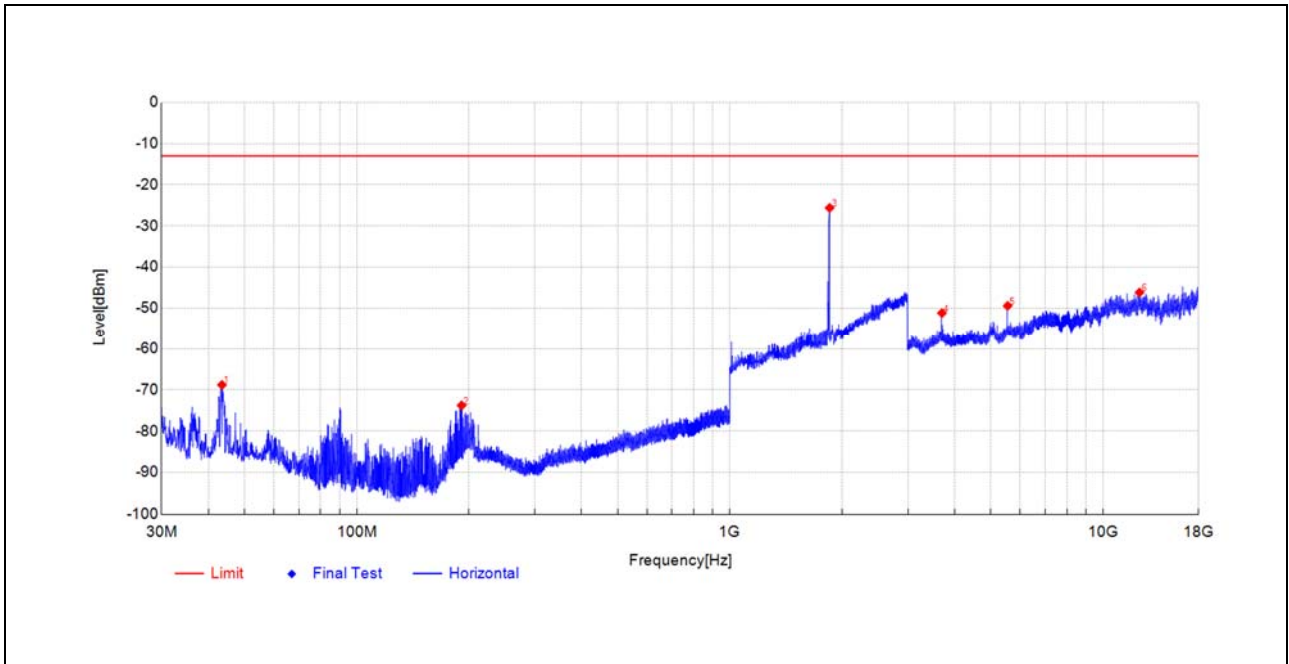


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
848.8179	-29.58	-35.11	-5.5	-	-	Vertical	PK	NA
893.7797	-49.27	-53.70	-4.4	-	-	Vertical	PK	NA
1697.7395	-53.52	-50.42	3.1	-13.0	37.4	Vertical	PK	PASS
3748.3499	-56.85	-55.64	1.2	-13.0	42.6	Vertical	PK	PASS
6965.0358	-62.54	-51.54	11.0	-13.0	38.5	Vertical	PK	PASS
10615.618	-65.40	-45.30	20.1	-13.0	32.3	Vertical	PK	PASS



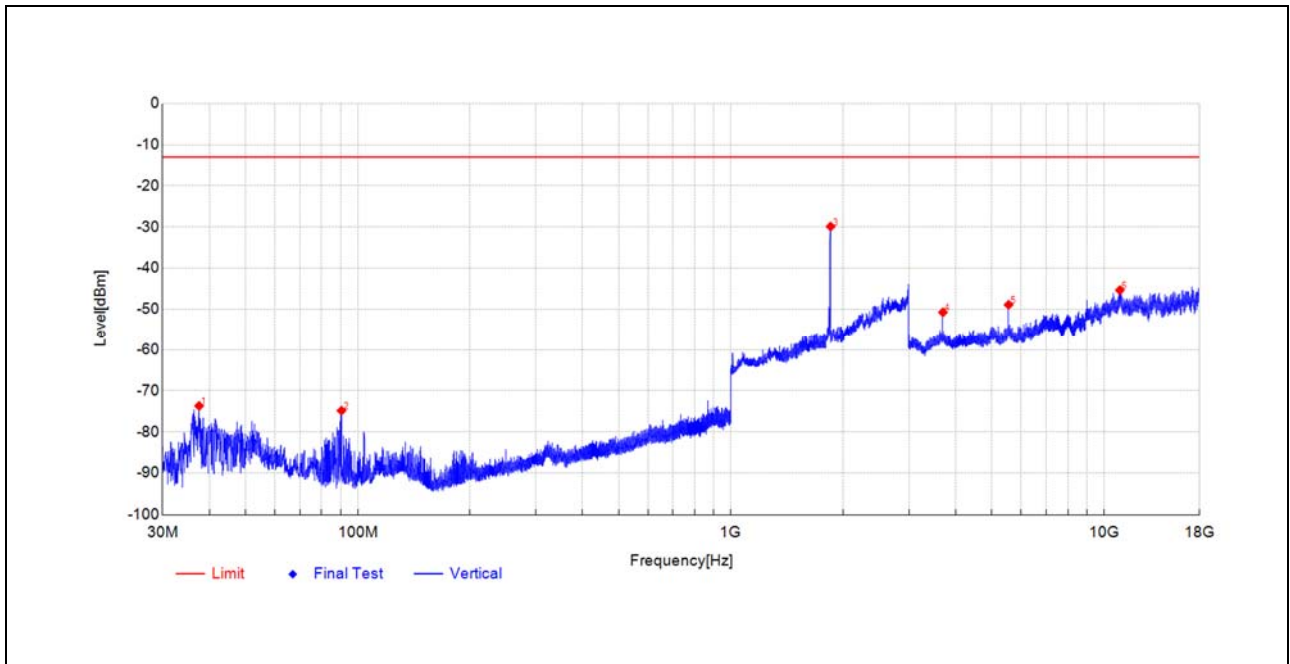
**GSM1900(EDGE)**

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.5322	-53.47	-68.81	-15.3	-13.0	55.8	Horizontal	PK	PASS
190.9795	-54.39	-73.78	-19.4	-13.0	60.8	Horizontal	PK	PASS
1850.17	-29.88	-25.60	4.3	-	-	Horizontal	PK	NA
3700.8144	-52.94	-51.17	1.8	-13.0	38.2	Horizontal	PK	PASS
5550.3643	-56.06	-49.40	6.7	-13.0	36.4	Horizontal	PK	PASS
12528.261	-69.37	-46.16	23.2	-13.0	33.2	Horizontal	PK	PASS

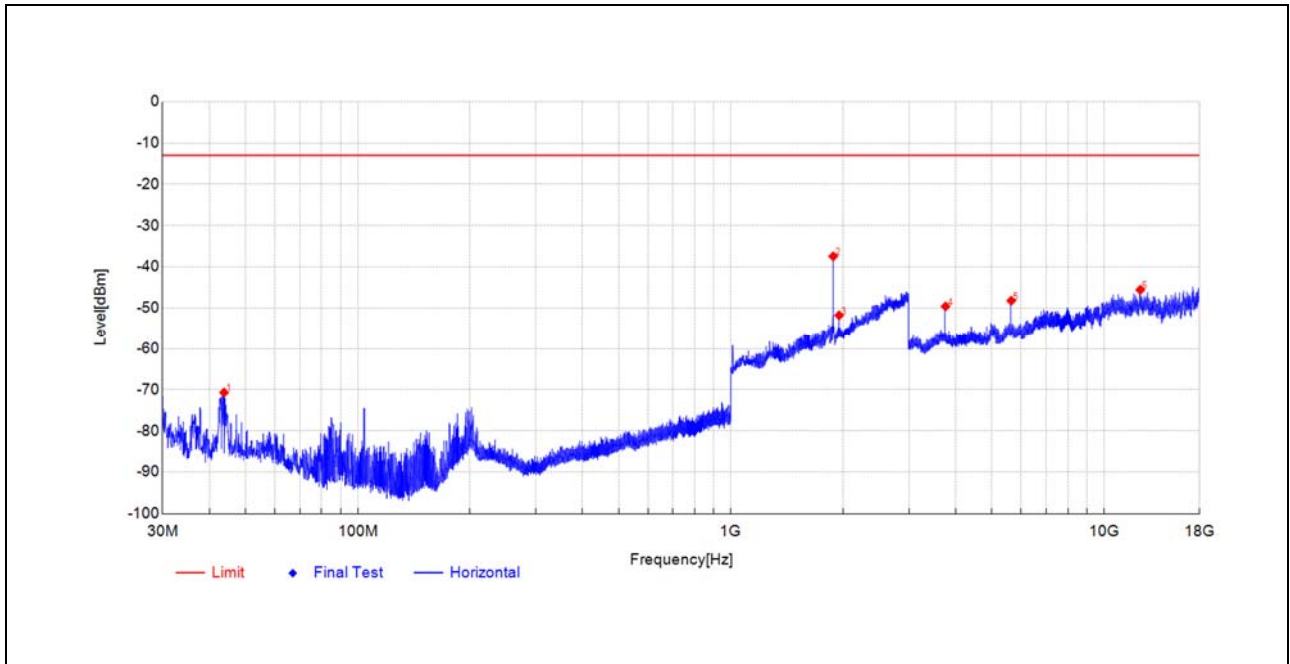




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.5664	-50.97	-73.68	-22.7	-13.0	60.7	Vertical	PK	PASS
90.434	-52.56	-74.84	-22.3	-13.0	61.8	Vertical	PK	PASS
1850.17	-34.19	-29.87	4.3	-	-	Vertical	PK	NA
3700.3858	-52.48	-50.71	1.8	-13.0	37.7	Vertical	PK	PASS
5550.3643	-55.23	-48.88	6.4	-13.0	35.9	Vertical	PK	PASS
11023.400	-67.04	-45.32	21.7	-13.0	32.3	Vertical	PK	PASS

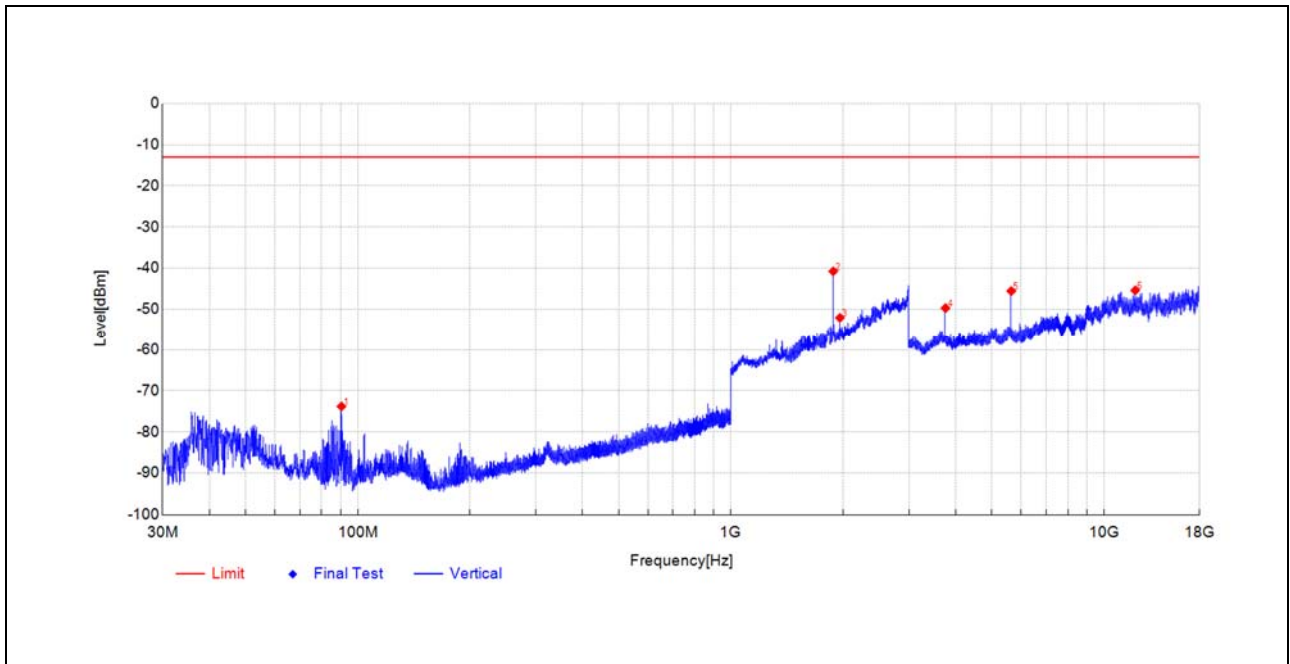


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.8232	-55.34	-70.68	-15.3	-13.0	57.7	Horizontal	PK	PASS
1880.176	-42.72	-37.44	5.3	-	-	Horizontal	PK	NA
1949.79	-56.06	-51.72	4.3	-	-	Horizontal	PK	NA
3760.3943	-50.73	-49.56	1.2	-13.0	36.6	Horizontal	PK	PASS
5639.9486	-55.27	-48.17	7.1	-13.0	35.2	Horizontal	PK	PASS
12504.260	-68.86	-45.54	23.3	-13.0	32.5	Horizontal	PK	PASS

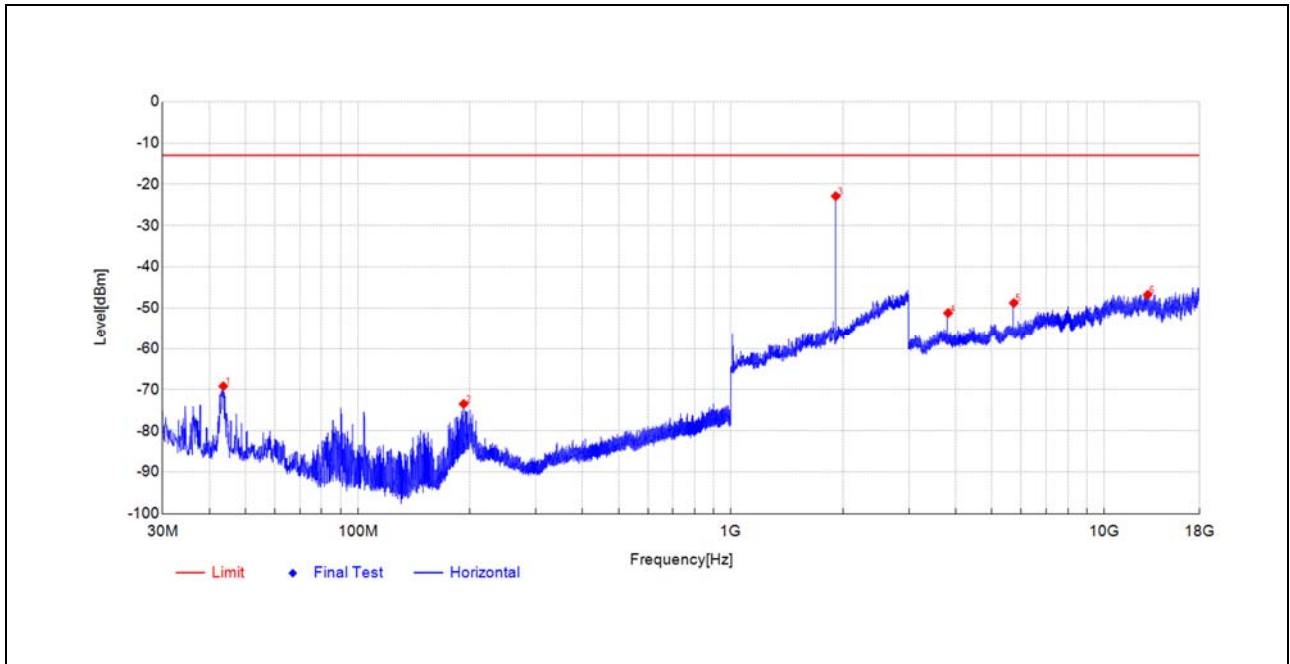




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.434	-51.52	-73.80	-22.3	-13.0	60.8	Vertical	PK	PASS
1880.176	-45.85	-40.74	5.1	-	-	Vertical	PK	NA
1959.792	-56.24	-52.05	4.2	-	-	Vertical	PK	NA
3759.9657	-50.76	-49.68	1.1	-13.0	36.7	Vertical	PK	PASS
5639.9486	-52.24	-45.54	6.7	-13.0	32.5	Vertical	PK	PASS
12121.204	-67.31	-45.37	21.9	-13.0	32.4	Vertical	PK	PASS

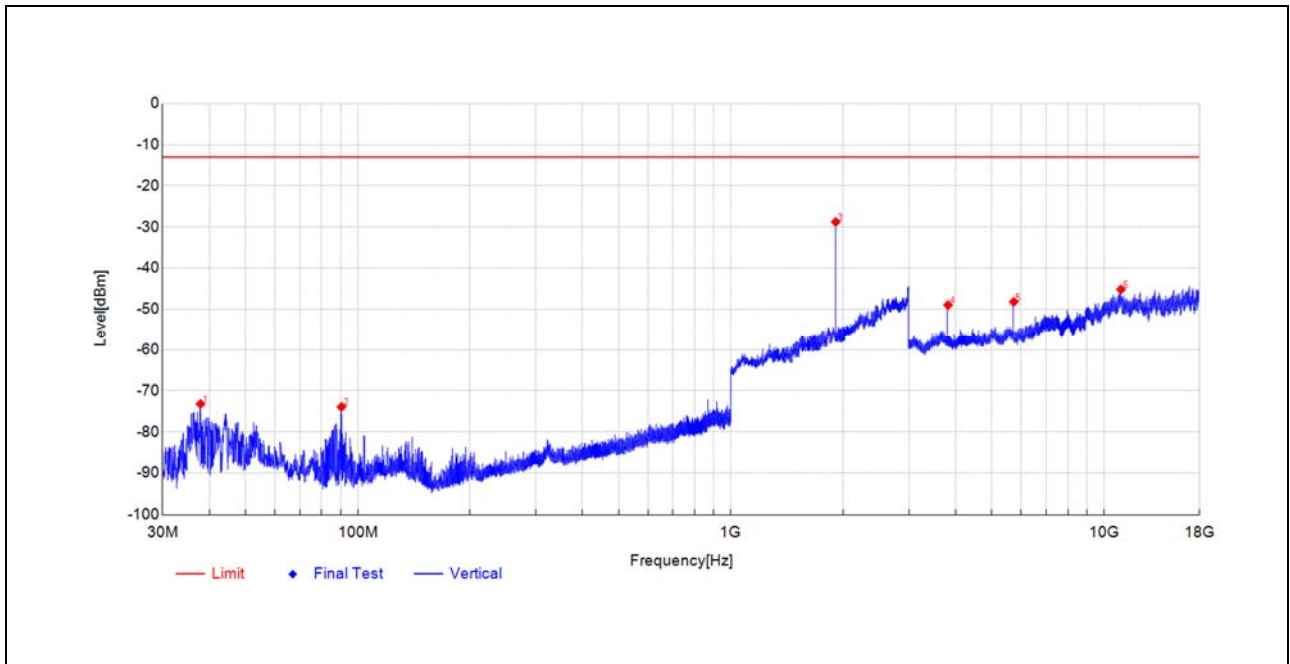


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.6292	-53.81	-69.16	-15.4	-13.0	56.2	Horizontal	PK	PASS
192.1921	-54.29	-73.47	-19.2	-13.0	60.5	Horizontal	PK	PASS
1909.782	-27.09	-22.86	4.2	-	-	Horizontal	PK	NA
3819.117	-52.04	-51.16	0.9	-13.0	38.2	Horizontal	PK	PASS
5729.1042	-56.17	-48.74	7.4	-13.0	35.7	Horizontal	PK	PASS
13091.323	-70.79	-46.74	24.1	-13.0	33.7	Horizontal	PK	PASS





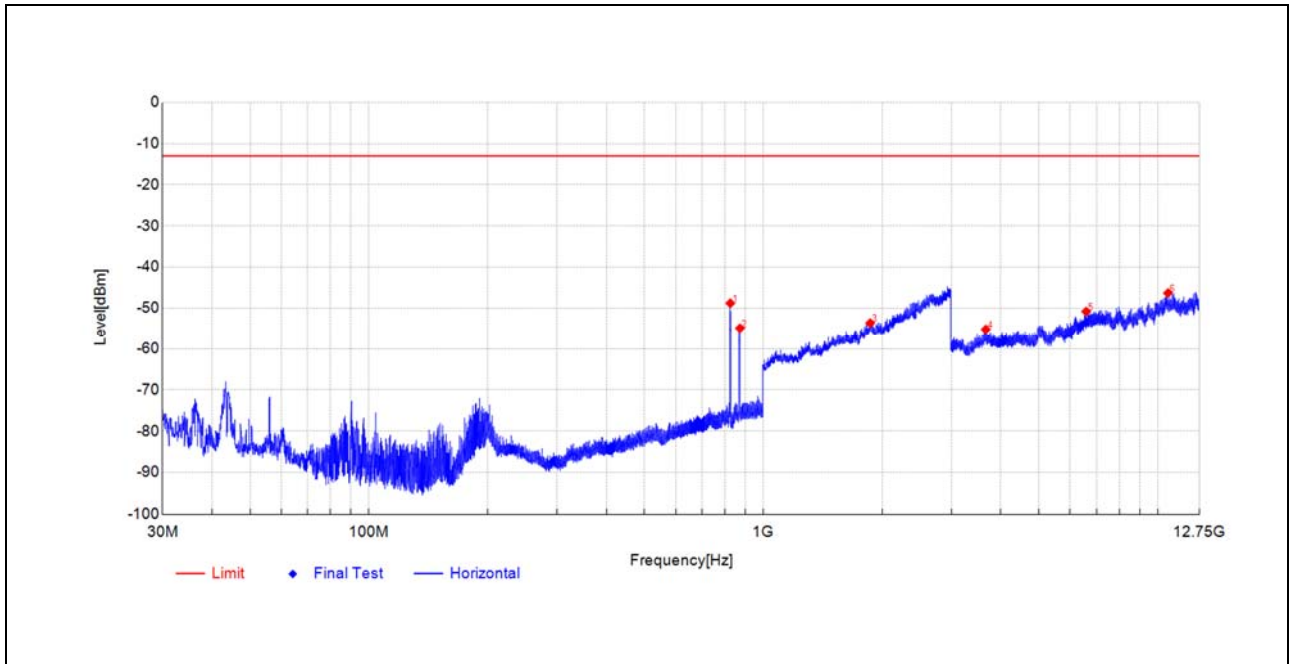
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-50.61	-73.20	-22.6	-13.0	60.2	Vertical	PK	PASS
90.434	-51.64	-73.92	-22.3	-13.0	60.9	Vertical	PK	PASS
1909.3819	-33.61	-28.74	4.9	-	-	Vertical	PK	NA
3819.5456	-49.64	-48.94	0.7	-13.0	35.9	Vertical	PK	PASS
5729.5328	-54.71	-48.16	6.6	-13.0	35.2	Vertical	PK	PASS
11096.363	-67.10	-45.16	21.9	-13.0	32.2	Vertical	PK	PASS





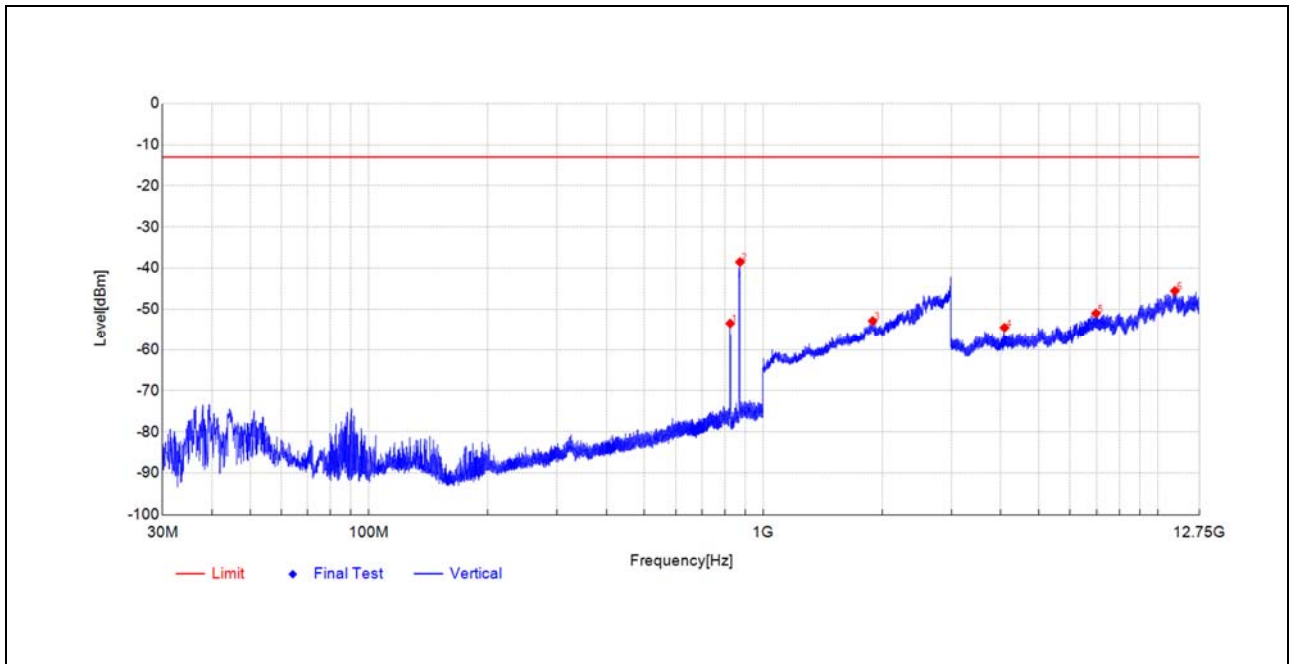
WCDMA Band V(WCDMA)

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
825.0032	-42.98	-48.77	-5.8	-	-	Horizontal	PK	NA
872.7296	-50.05	-54.87	-4.8	-	-	Horizontal	PK	NA
1866.1732	-59.12	-53.62	5.5	-13.0	40.6	Horizontal	PK	PASS
3665.9583	-56.91	-55.18	1.7	-13.0	42.2	Horizontal	PK	PASS
6587.6919	-61.94	-50.80	11.1	-13.0	37.8	Horizontal	PK	PASS
10617.080	-65.68	-46.30	19.4	-13.0	33.3	Horizontal	PK	PASS

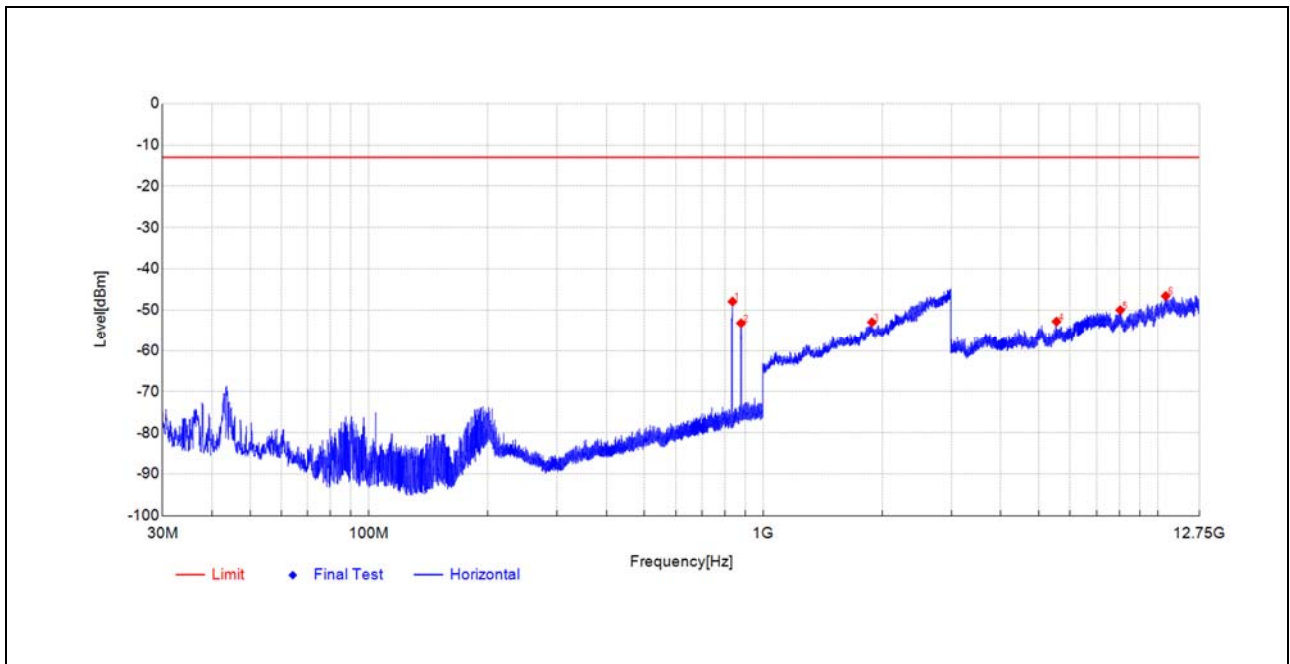




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
824.5667	-47.55	-53.44	-5.9	-	-	Vertical	PK	NA
873.0207	-33.78	-38.51	-4.7	-	-	Vertical	PK	NA
1893.3787	-58.72	-52.83	5.9	-13.0	39.8	Vertical	PK	PASS
4088.1544	-56.47	-54.49	2.0	-13.0	41.5	Vertical	PK	PASS
6972.8361	-62.03	-50.97	11.1	-13.0	38.0	Vertical	PK	PASS
11053.902	-67.73	-45.52	22.2	-13.0	32.5	Vertical	PK	PASS

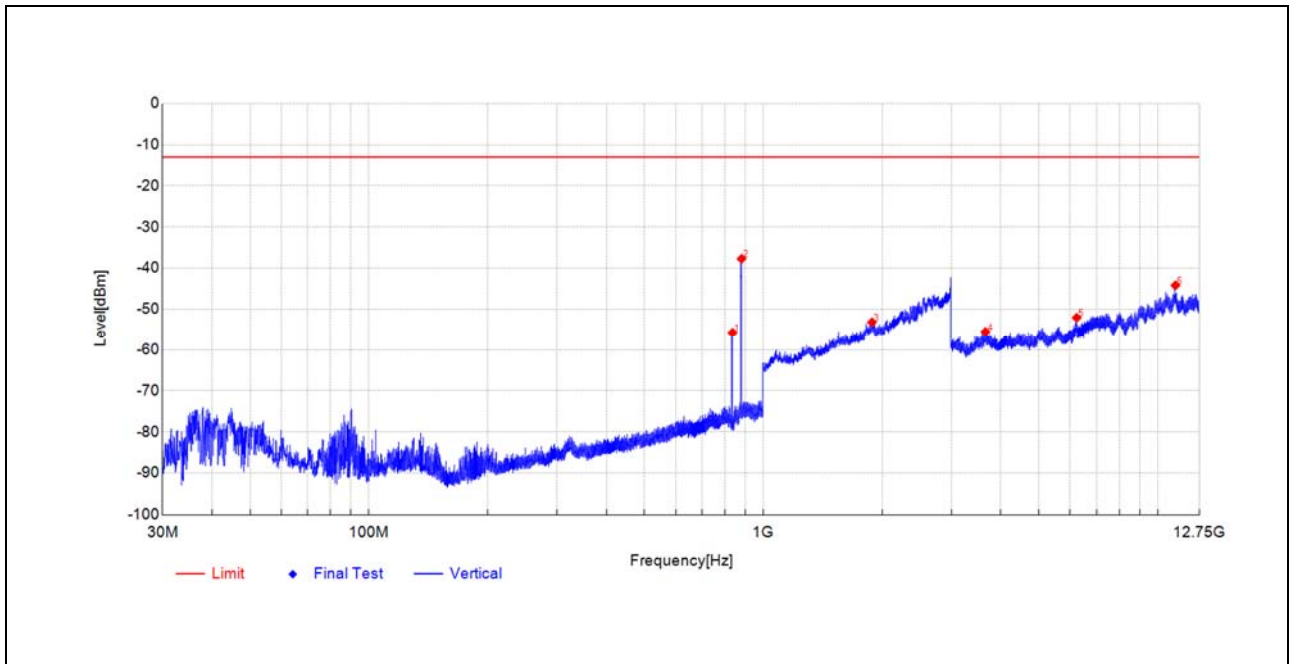


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
835.6253	-42.34	-47.90	-5.6	-	-	Horizontal	PK	NA
878.5014	-48.39	-53.16	-4.8	-	-	Horizontal	PK	NA
1886.1772	-58.78	-52.94	5.8	-13.0	39.9	Horizontal	PK	PASS
5539.027	-59.36	-52.75	6.6	-13.0	39.8	Horizontal	PK	PASS
8036.1268	-63.44	-49.98	13.5	-13.0	37.0	Horizontal	PK	PASS
10480.086	-66.32	-46.56	19.8	-13.0	33.6	Horizontal	PK	PASS



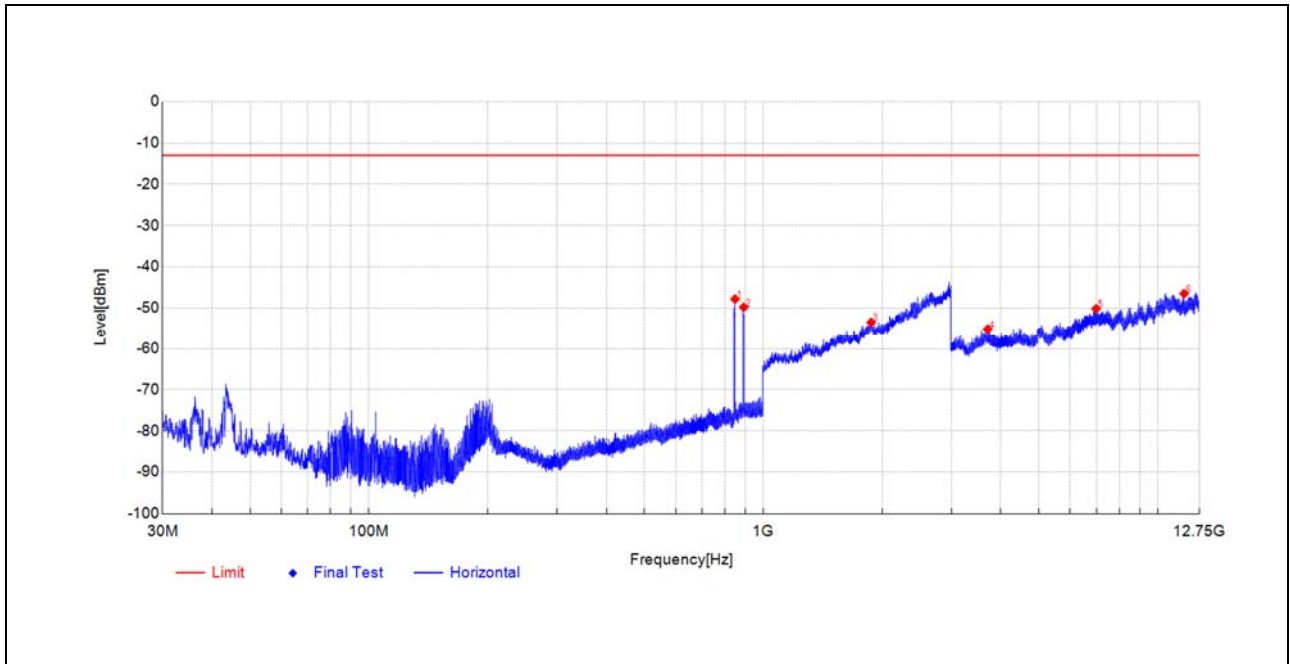


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
835.7708	-49.87	-55.71	-5.8	-	-	Vertical	PK	NA
880.9265	-33.22	-37.70	-4.5	-	-	Vertical	PK	NA
1886.5773	-59.04	-53.15	5.9	-13.0	40.2	Vertical	PK	PASS
3659.133	-57.17	-55.51	1.7	-13.0	42.5	Vertical	PK	PASS
6232.2866	-61.19	-52.03	9.2	-13.0	39.0	Vertical	PK	PASS
11089.492	-66.54	-44.17	22.4	-13.0	31.2	Vertical	PK	PASS



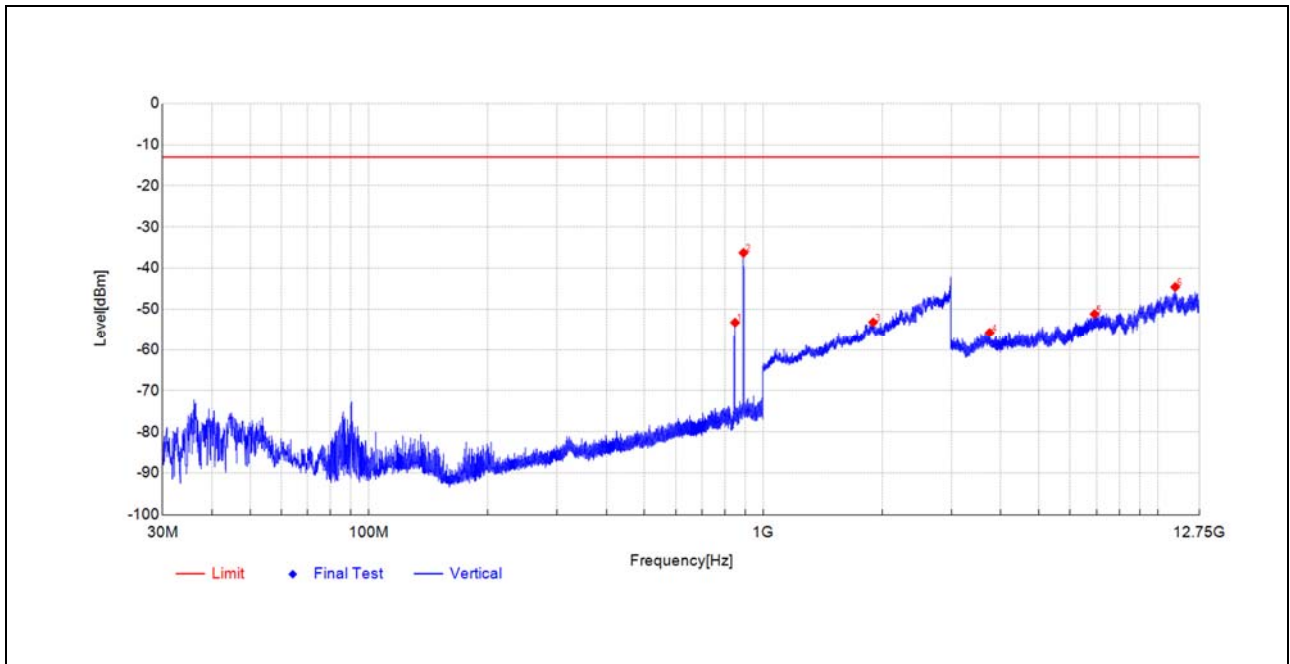


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
847.9449	-42.58	-47.79	-5.2	-	-	Horizontal	PK	NA
891.6941	-45.07	-49.76	-4.7	-	-	Horizontal	PK	NA
1877.7756	-59.43	-53.44	6.0	-13.0	40.4	Horizontal	PK	PASS
3706.9103	-56.81	-55.10	1.7	-13.0	42.1	Horizontal	PK	PASS
6978.6864	-61.68	-50.11	11.6	-13.0	37.1	Horizontal	PK	PASS
11665.258	-67.35	-46.48	20.9	-13.0	33.5	Horizontal	PK	PASS



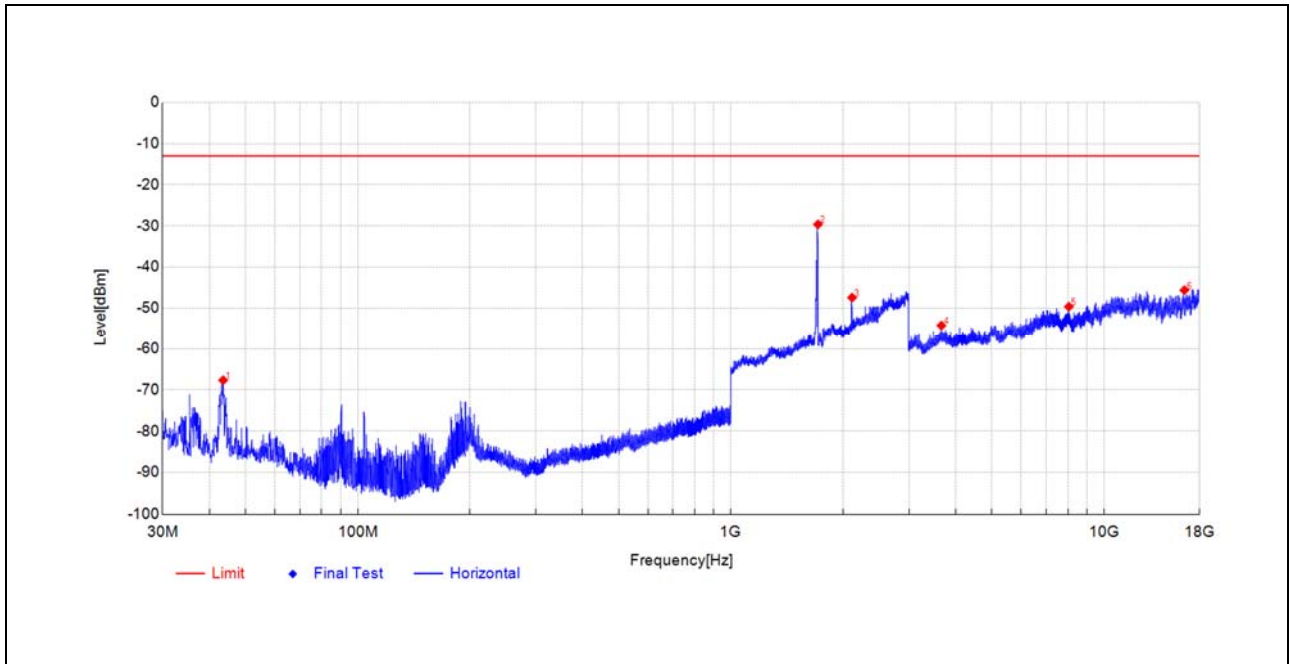


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
848.2844	-47.69	-53.23	-5.5	-	-	Vertical	PK	NA
890.821	-31.83	-36.27	-4.4	-	-	Vertical	PK	NA
1898.9798	-59.05	-53.16	5.9	-13.0	40.2	Vertical	PK	PASS
3749.8125	-56.95	-55.75	1.2	-13.0	42.8	Vertical	PK	PASS
6917.2584	-61.85	-51.15	10.7	-13.0	38.2	Vertical	PK	PASS
11077.303	-66.88	-44.56	22.3	-13.0	31.6	Vertical	PK	PASS



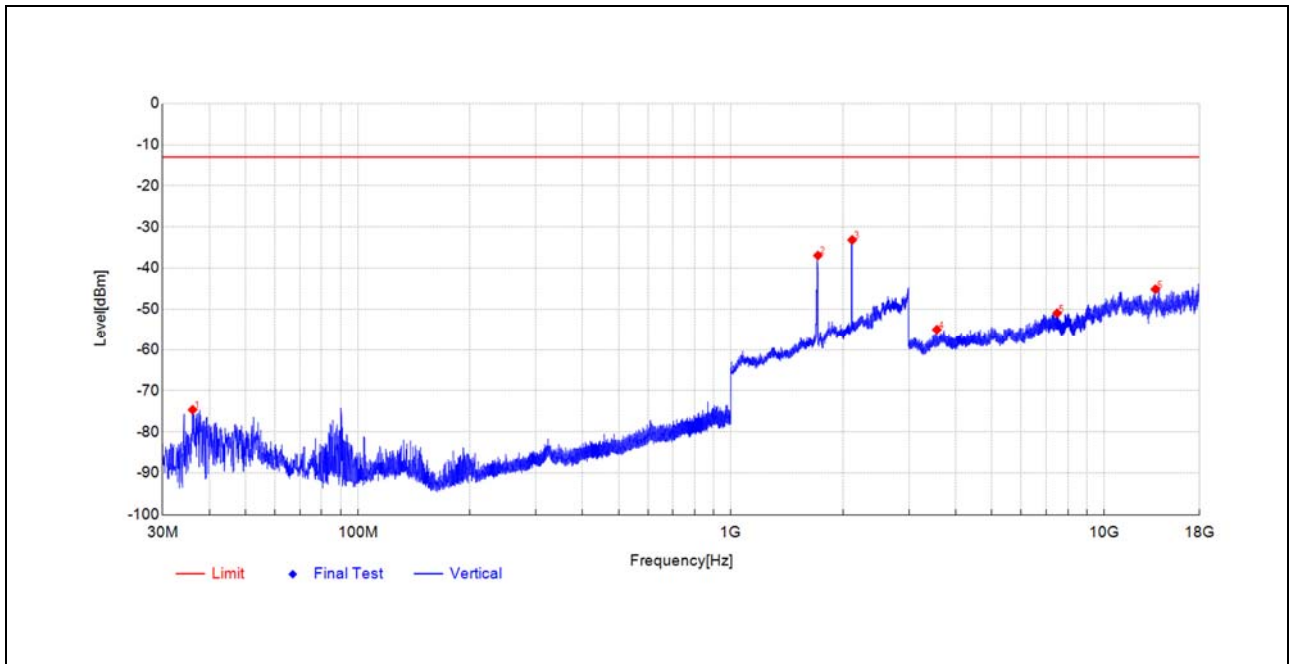
**WCDMA Band IV(WCDMA)**

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.5807	-52.36	-67.68	-15.3	-13.0	54.7	Horizontal	PK	PASS
1711.3423	-32.94	-29.61	3.3	-	-	Horizontal	PK	NA
2111.8224	-53.19	-47.41	5.8	-	-	Horizontal	PK	NA
3666.0952	-55.94	-54.21	1.7	-13.0	41.2	Horizontal	PK	PASS
8047.7619	-63.06	-49.61	13.5	-13.0	36.6	Horizontal	PK	PASS
16423.616	-70.59	-45.60	25.0	-13.0	32.6	Horizontal	PK	PASS



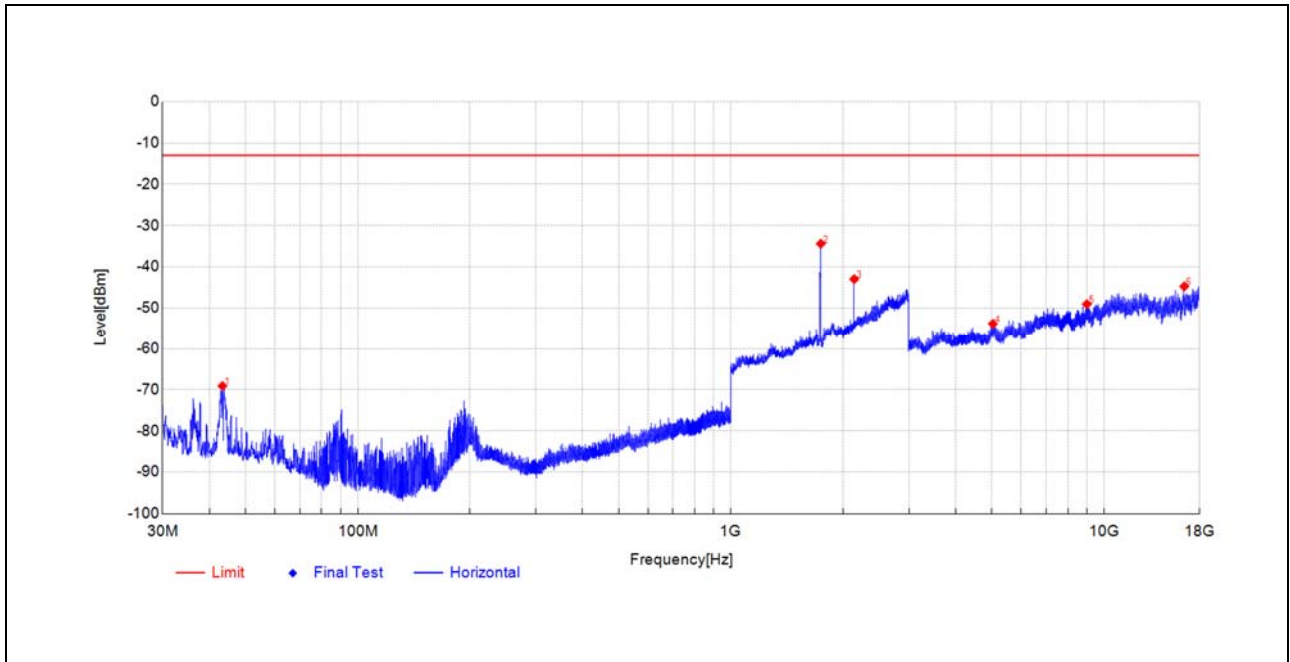


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.1113	-51.44	-74.63	-23.2	-13.0	61.6	Vertical	PK	PASS
1710.9422	-40.38	-36.90	3.5	-	-	Vertical	PK	NA
2113.4227	-38.75	-33.13	5.6	-	-	Vertical	PK	NA
3564.9378	-56.40	-54.97	1.4	-13.0	42.0	Vertical	PK	PASS
7487.5795	-62.82	-50.92	11.9	-13.0	37.9	Vertical	PK	PASS
13729.749	-69.64	-45.11	24.5	-13.0	32.1	Vertical	PK	PASS



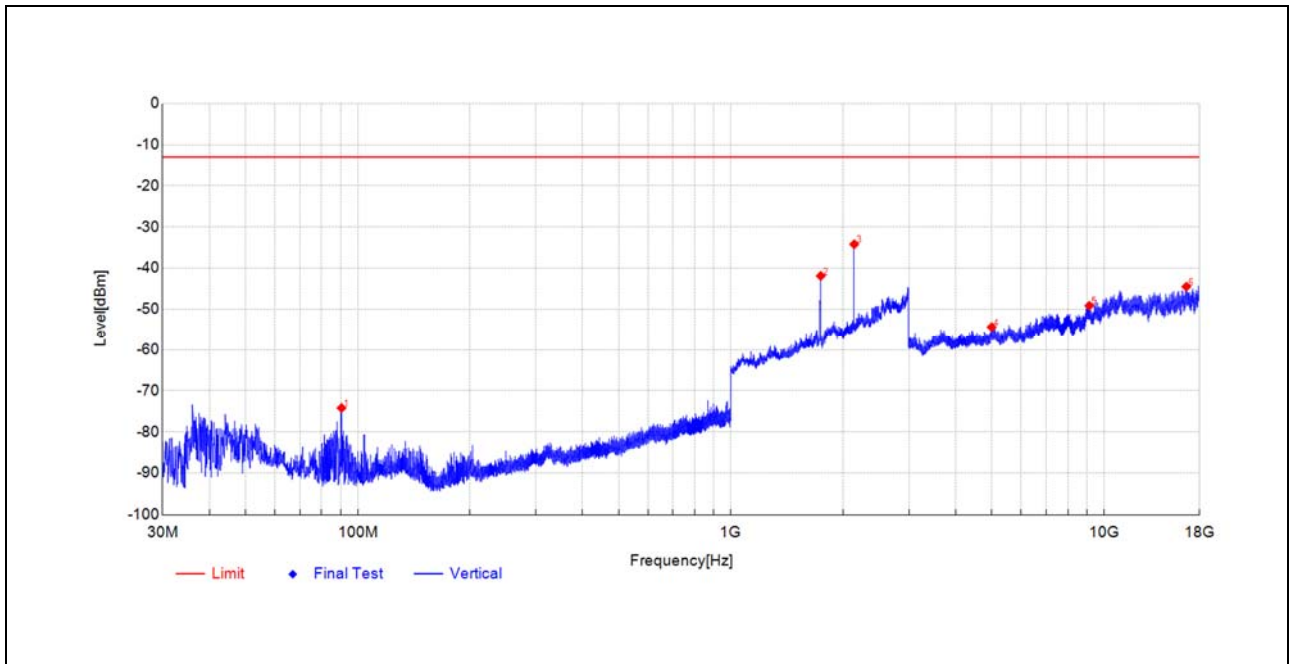


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.3867	-53.78	-69.10	-15.3	-13.0	56.1	Horizontal	PK	PASS
1741.3483	-37.36	-34.38	3.0	-	-	Horizontal	PK	NA
2139.828	-48.97	-42.95	6.0	-	-	Horizontal	PK	NA
5036.8624	-59.87	-53.79	6.1	-13.0	40.8	Horizontal	PK	PASS
8995.3198	-64.40	-49.01	15.4	-13.0	36.0	Horizontal	PK	PASS
16398.655	-70.47	-44.72	25.8	-13.0	31.7	Horizontal	PK	PASS

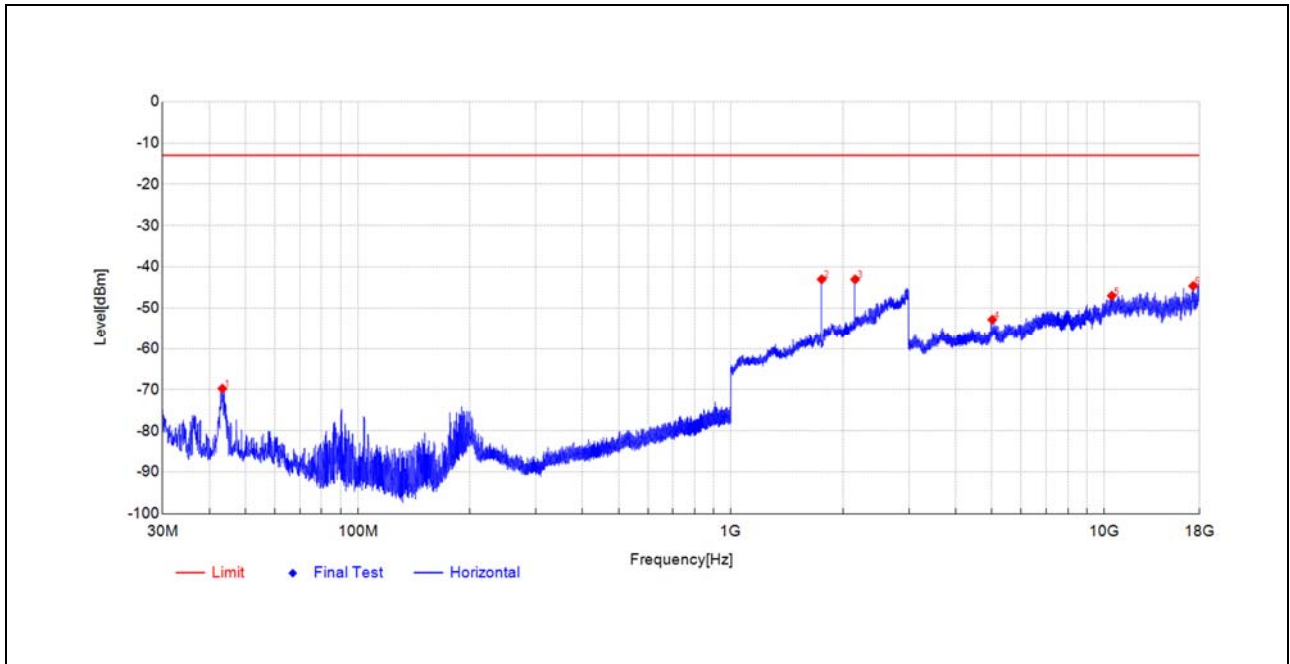




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.4825	-51.93	-74.18	-22.3	-13.0	61.2	Vertical	PK	PASS
1741.3483	-45.29	-41.86	3.4	-	-	Vertical	PK	NA
2141.0282	-40.05	-34.17	5.9	-	-	Vertical	PK	NA
4998.2855	-59.83	-54.32	5.5	-13.0	41.3	Vertical	PK	PASS
9130.2052	-65.70	-49.11	16.6	-13.0	36.1	Vertical	PK	PASS
16616.104	-70.34	-44.47	25.9	-13.0	31.5	Vertical	PK	PASS

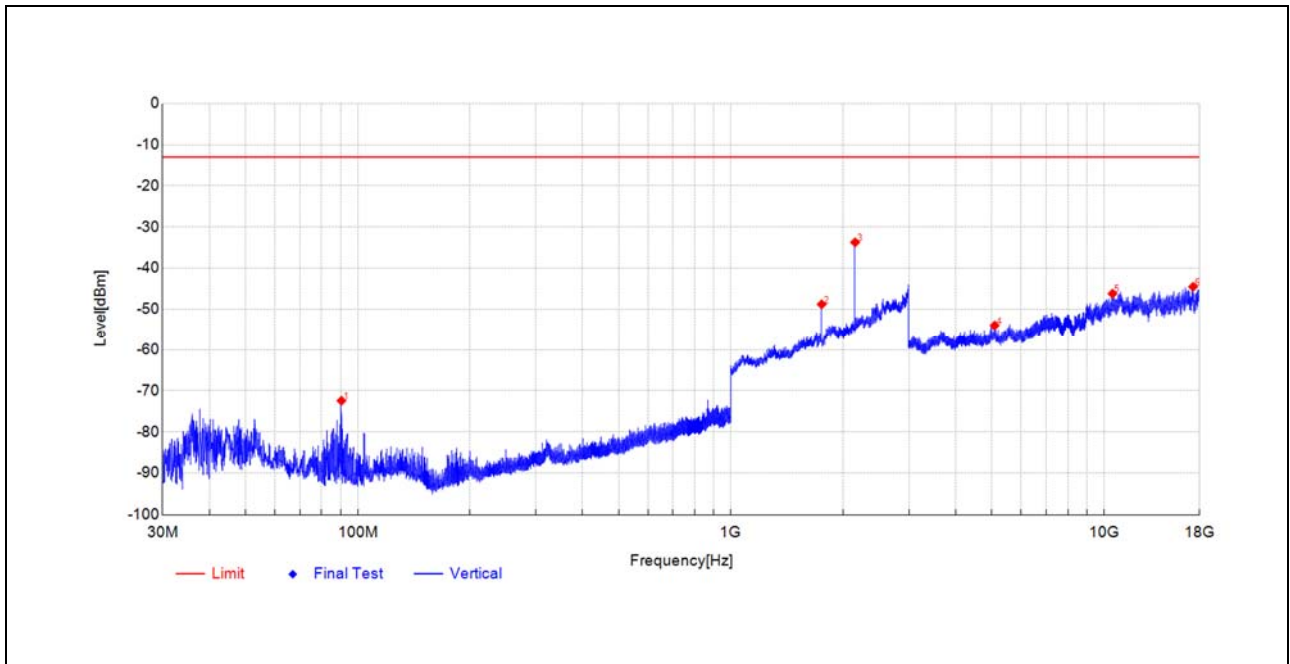


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.3867	-54.41	-69.73	-15.3	-13.0	56.7	Horizontal	PK	PASS
1751.3503	-45.92	-43.00	2.9	-	-	Horizontal	PK	NA
2152.2304	-49.05	-43.02	6.0	-	-	Horizontal	PK	NA
5018.0026	-58.87	-52.78	6.1	-13.0	39.8	Horizontal	PK	PASS
10494.899	-66.32	-46.98	19.3	-13.0	34.0	Horizontal	PK	PASS
17325.573	-68.82	-44.61	24.2	-13.0	31.6	Horizontal	PK	PASS





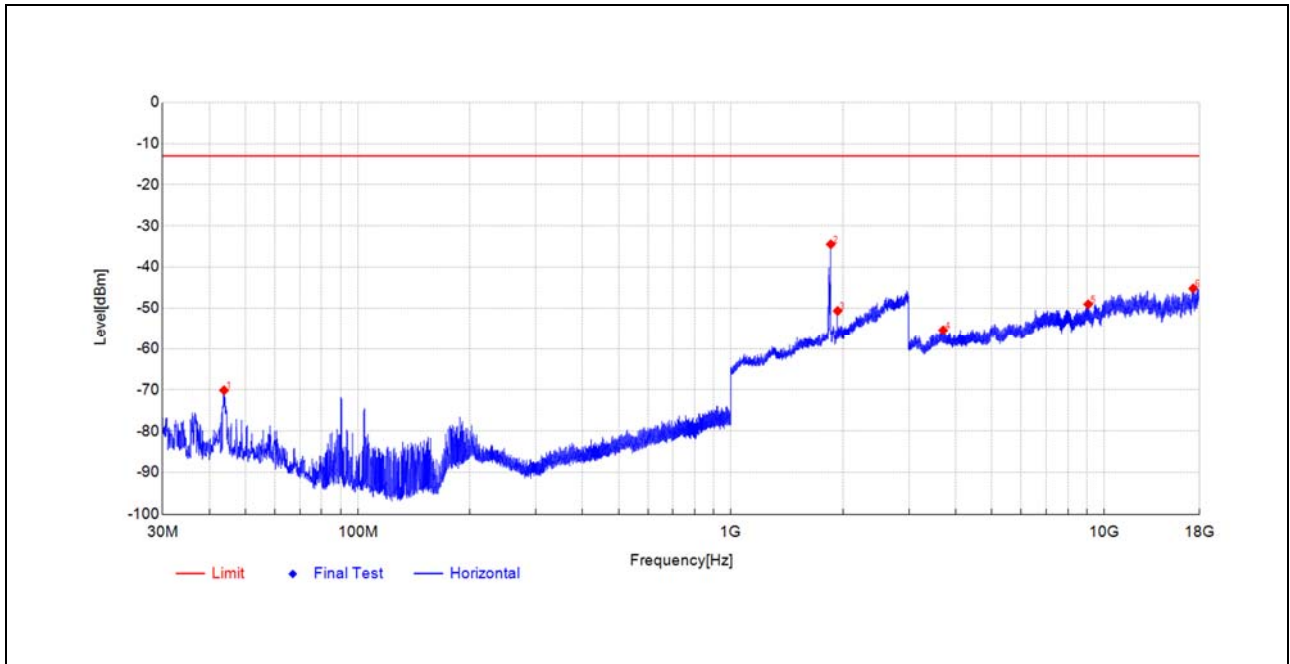
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.434	-50.17	-72.43	-22.3	-13.0	59.4	Vertical	PK	PASS
1750.9502	-52.24	-48.77	3.5	-	-	Vertical	PK	NA
2151.8304	-39.42	-33.71	5.7	-	-	Vertical	PK	NA
5091.7274	-59.40	-53.93	5.5	-13.0	40.9	Vertical	PK	PASS
10539.061	-65.96	-46.18	19.8	-13.0	33.2	Vertical	PK	PASS
17323.172	-69.14	-44.50	24.6	-13.0	31.5	Vertical	PK	PASS





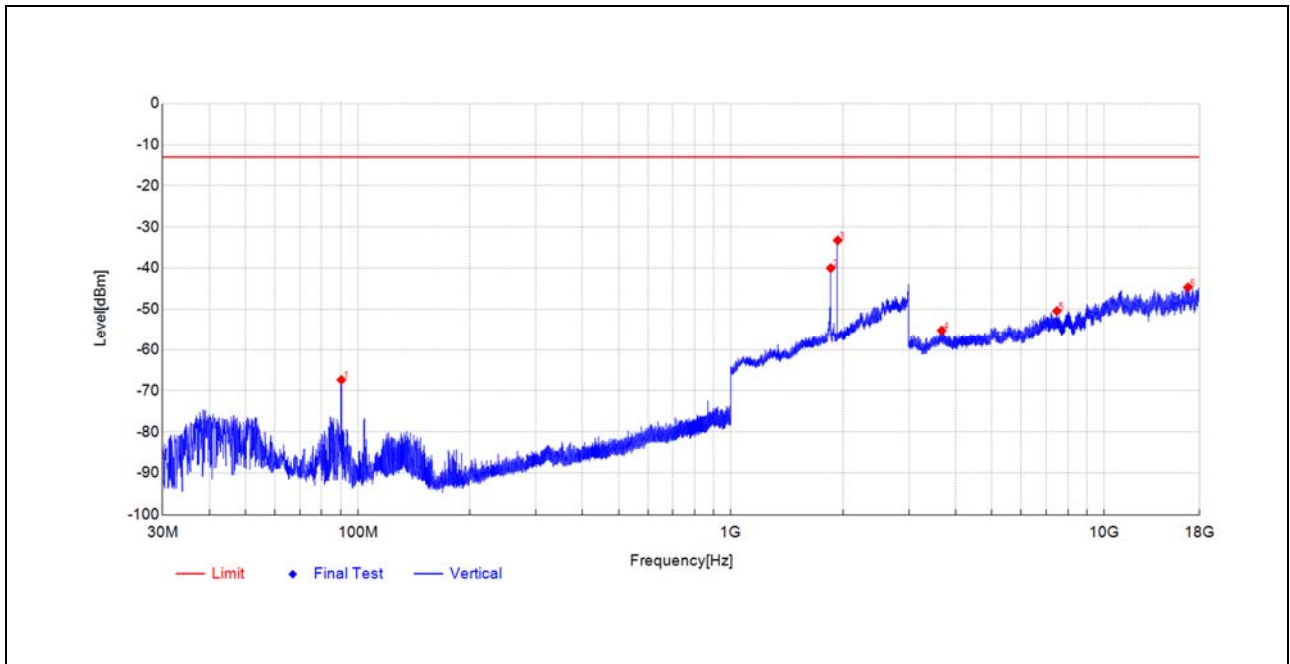
WCDMA Band II(WCDMA)

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
43.8232	-54.78	-70.12	-15.3	-13.0	57.1	Horizontal	PK	PASS
1852.1704	-38.75	-34.45	4.3	-	-	Horizontal	PK	NA
1932.5865	-54.63	-50.66	4.0	-	-	Horizontal	PK	NA
3705.5294	-57.10	-55.37	1.7	-13.0	42.4	Horizontal	PK	PASS
9067.8027	-64.64	-49.03	15.6	-13.0	36.0	Horizontal	PK	PASS
17329.413	-69.43	-45.19	24.2	-13.0	32.2	Horizontal	PK	PASS



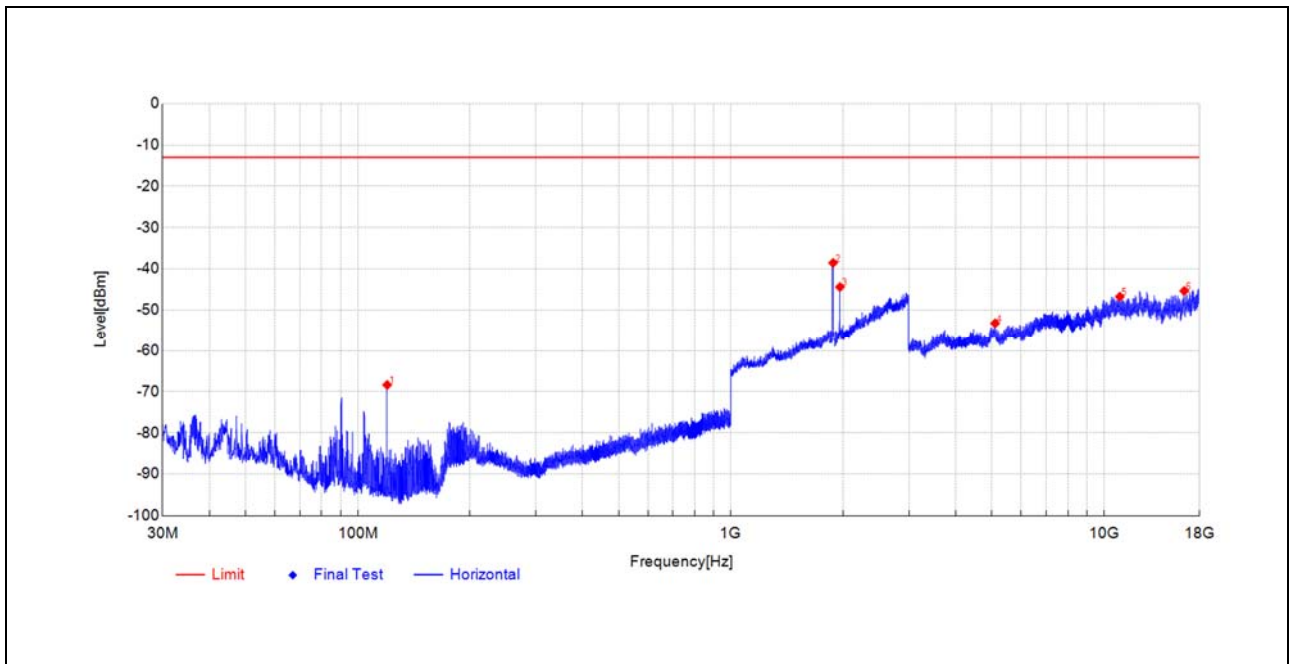


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.3855	-45.08	-67.36	-22.3	-13.0	54.4	Vertical	PK	PASS
1851.7704	-44.27	-39.98	4.3	-	-	Vertical	PK	NA
1933.3867	-37.12	-33.24	3.9	-	-	Vertical	PK	NA
3672.9533	-56.86	-55.17	1.7	-13.0	42.2	Vertical	PK	PASS
7479.4192	-62.26	-50.40	11.9	-13.0	37.4	Vertical	PK	PASS
16777.871	-70.33	-44.65	25.7	-13.0	31.7	Vertical	PK	PASS



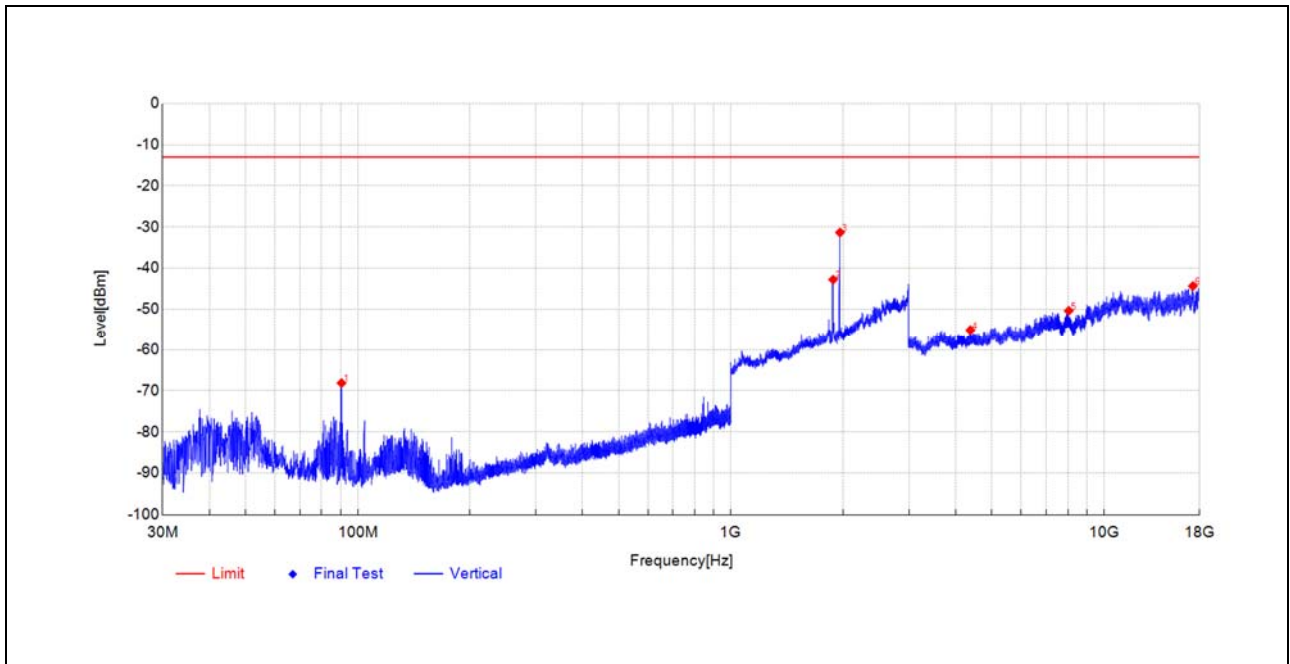


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
119.9235	-43.55	-68.35	-24.8	-13.0	55.4	Horizontal	PK	PASS
1878.5757	-43.77	-38.54	5.2	-	-	Horizontal	PK	NA
1959.792	-48.88	-44.38	4.5	-	-	Horizontal	PK	NA
5105.8723	-59.19	-53.18	6.0	-13.0	40.2	Horizontal	PK	PASS
11020.520	-67.13	-46.72	20.4	-13.0	33.7	Horizontal	PK	PASS
16401.536	-71.05	-45.34	25.7	-13.0	32.3	Horizontal	PK	PASS

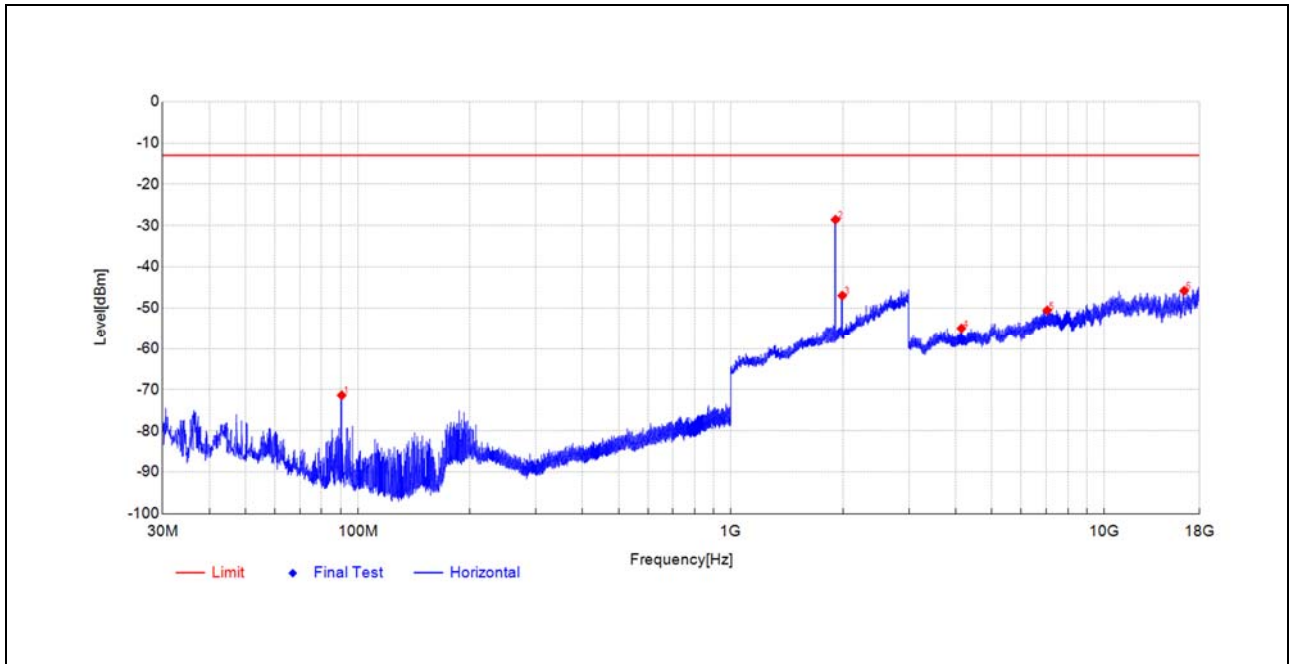




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.4825	-45.86	-68.14	-22.3	-13.0	55.1	Vertical	PK	PASS
1878.9758	-47.83	-42.76	5.1	-	-	Vertical	PK	NA
1960.9922	-35.54	-31.31	4.2	-	-	Vertical	PK	NA
4383.6262	-57.75	-55.08	2.7	-13.0	42.1	Vertical	PK	PASS
8041.5217	-63.34	-50.35	13.0	-13.0	37.4	Vertical	PK	PASS
17301.572	-68.91	-44.33	24.6	-13.0	31.3	Vertical	PK	PASS

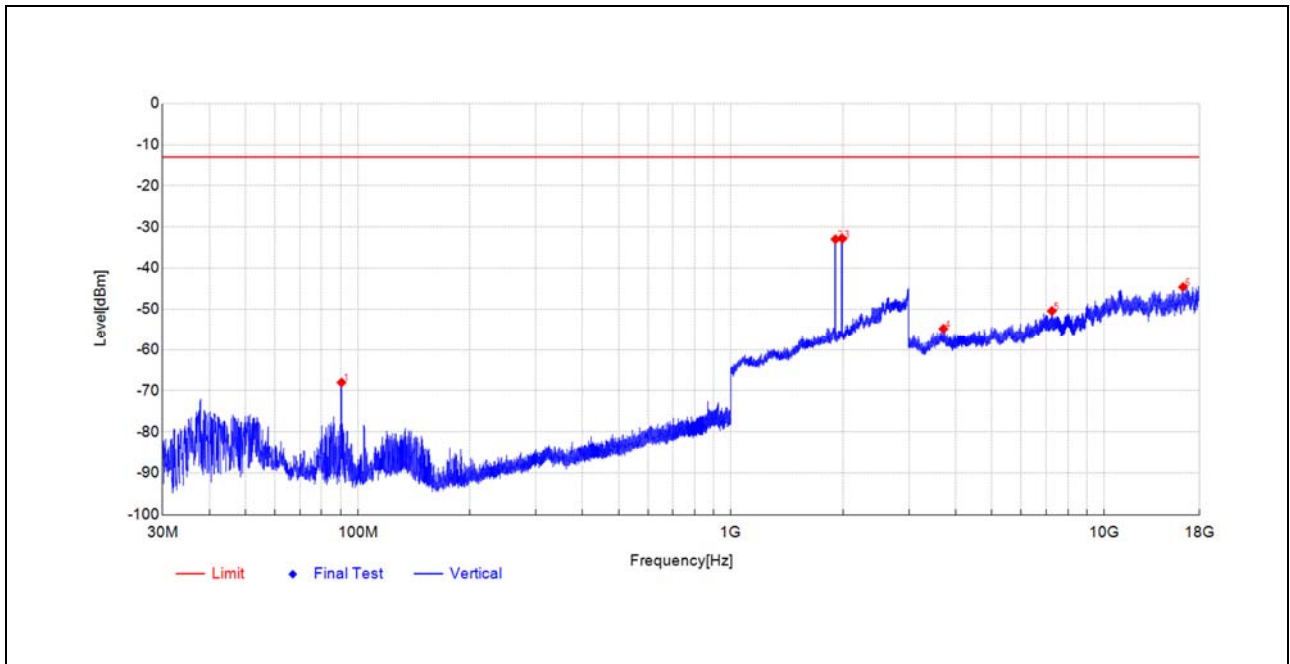


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.5795	-48.01	-71.37	-23.4	-13.0	58.4	Horizontal	PK	PASS
1906.5813	-32.84	-28.56	4.3	-	-	Horizontal	PK	NA
1987.7976	-51.33	-46.95	4.4	-	-	Horizontal	PK	NA
4147.8783	-57.06	-54.92	2.1	-13.0	41.9	Horizontal	PK	PASS
7045.0018	-62.23	-50.53	11.7	-13.0	37.5	Horizontal	PK	PASS
16392.895	-71.45	-45.79	25.7	-13.0	32.8	Horizontal	PK	PASS





Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
90.4825	-45.72	-68.00	-22.3	-13.0	55.0	Vertical	PK	PASS
1906.5813	-37.96	-32.95	5.0	-	-	Vertical	PK	NA
1988.9978	-37.26	-32.82	4.4	-	-	Vertical	PK	NA
3710.673	-56.41	-54.76	1.7	-13.0	41.8	Vertical	PK	PASS
7248.0499	-61.98	-50.40	11.6	-13.0	37.4	Vertical	PK	PASS
16286.811	-70.78	-44.57	26.2	-13.0	31.6	Vertical	PK	PASS





Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Output Power	$\pm 2.22\text{dB}$
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	$\pm 2.77\text{dB}$
Radiated Emission	$\pm 2.95\text{dB}$

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.





Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2020 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2025.05.15	2026.05.14
Communication Test Station	6200995016	MT8820C	Anritsu	2024.09.11	2025.09.10
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2024.09.11	2025.09.10

4.2 List of Software Used

Description	Manufacturer	Software Version
JS32-RE	Tonscend	5.0.0

4.3 Radiated Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2024.09.11	2025.09.10
Receiver	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2024.07.26	2025.07.25
				2025.06.28	2026.06.27
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2024.09.11	2025.09.10
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier	DS77209	DCLNA0118-	Decentest	2025.05.13	2026.05.12





(18GHz-40GHz)		40C-S			
Notch Filter	N/A	WRCG-GSM 850	Wainwright	N/A	N/A
Notch Filter	N/A	WRCG-GSM 1900	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band V	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band II	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band IV	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29

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