



REPORT No.: SZ25060339W06

TEST REPORT

APPLICANT : Rhino Mobility LLC

PRODUCT NAME : Smartphone

MODEL NAME : C6-ROW

BRAND NAME : RHINO

FCC ID : 2AUOUC6-ROW

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

RECEIPT DATE : 2025-07-02

TEST DATE : 2025-07-03 to 2025-07-22

ISSUE DATE : 2025-08-20

Edited by:

Zeng Xiaoying
Zeng Xiaoying (Rapporteur)

Approved by:

Shen Junsheng
Shen Junsheng (Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
1.3. Maximum E.R.P./E.I.R.P. and Emission Designator	6
1.4. Test Standards and Results	7
1.5. Environmental Conditions	8
2. 47 CFR Part 2, Part 22H, 24E&27L Requirements	9
2.1. Conducted RF Output Power	9
2.2. Peak to Average Ratio	12
2.3. Occupied Bandwidth	16
2.4. Frequency Stability	23
2.5. Conducted Out of Band Emissions	27
2.6. Band Edge	33
2.7. Determining E.R.P. and/or E.I.R.P. from conducted RF output power measurements	37
2.8. Radiated Out of Band Emissions	40
Annex A Test Uncertainty	72
Annex B Testing Laboratory Information	73

Change History		
Version	Date	Reason for change
1.0	2025-08-20	First edition





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Rhino Mobility LLC
Applicant Address:	8 The Green, Suite A, Dover, Delaware,19901, USA
Manufacturer:	Rhino Mobility LLC
Manufacturer Address:	8 The Green, Suite A, Dover, Delaware,19901, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Smartphone	
Sample No.:	1#, 6#	
Hardware Version:	Q6010W_MB_V1.0	
Software Version:	C6W(001)_20250220	
Modulation Type:	GSM/GPRS Mode with GMSK Modulation EDGE Mode with 8PSK Modulation WCDMA Mode with QPSK Modulation HSDPA / DC-HSDPA Mode with QPSK Modulation HSUPA Mode with QPSK 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
Antenna Type:	PIFA Antenna	
Antenna Gain:	GSM 850:	-0.86dBi
	GSM1900:	1.93dBi
	WCDMA Band V:	-0.86dBi
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	BPC6
	Serial No.:	N/A



	Capacity:	3950mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Phenix New Energy (Huizhou) Co., Ltd.
	AC Adapter 1	
	Brand Name:	RHINO
	Model No.:	PS18B120K1500EU
	Serial No.:	N/A
	Rated Output:	5.0V $\Rightarrow$ 3.0A, 9.0V $\Rightarrow$ 2.0A, 12.0V $\Rightarrow$ 1.5A,
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.5A
	Manufacturer:	Shenzhen Flypower Technology Co., Ltd.
	AC Adapter 2	
	Brand Name:	RHINO
	Model No.:	TPA-38F120150BU01
	Serial No.:	N/A
	Rated Output:	5.0V $\Rightarrow$ 3.0A, 9.0V $\Rightarrow$ 2.0A, 12.0V $\Rightarrow$ 1.5A,
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.6A
	Manufacturer:	Shenzhen Tianyin Electronics Co., Ltd.
	USB Cable 1	
	Model No.:	USB TYPE A TO C 2.0 Cable 1.0m
	Manufacturer:	HUIZHOU WASHIN ELECTRONICS CO.,LTD.
	USB Cable 2	
	Model No.:	USB TYPE C to C 2.0 Cable (1.0m)
	Manufacturer:	HUIZHOU WASHIN 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: 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 5: 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.

Note 6: SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.





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)	0.822	248KGXW
GSM850(EDGE)	0.254	251KG7W
GSM1900(GSM)	1.690	247KGXW
GSM1900(EDGE)	0.700	252KG7W
WCDMA Band V	0.100	4M14F9W





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

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	Aug. 06, 2025	Zheng Jianhua	PASS	/
2	24.232(d)	Peak -Average Ratio	Jul. 03&08, 2025	Liu Huiyan	PASS	/
3	2.1049	Occupied Bandwidth	Jul. 03&08, 2025	Liu Huiyan	PASS	/
4	2.1055, 22.355, 24.235	Frequency Stability	Jul. 03&08, 2025	Liu Huiyan	PASS	/
5	2.1051, 22.917(a), 24.238(a)	Conducted Out of Band Emissions	Jul. 03&08, 2025	Liu Huiyan	PASS	/
6	2.1051, 22.917(a), 24.238(a)	Band Edge	Jul. 03&08, 2025	Liu Huiyan	PASS	/
7	22.913(a), 24.232(c)	Transmitter Radiated Power (E.I.P.R./E.R.P.)	Aug. 06, 2025	Liu Huiyan	PASS	/
8	2.1051, 22.917(a), 24.238(a)	Radiated Out of Band Emissions	Jul. 21, 2025	Li Hanbin	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

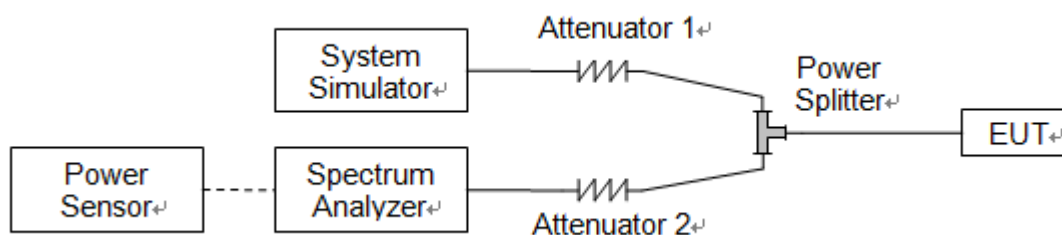
2.1. Conducted RF Output Power

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	32.08	32.13	32.10
GPRS 1 Tx slot	32.10	32.16	32.12
GPRS 2 Tx slots	29.02	29.16	29.15
GPRS 3 Tx slots	26.74	26.81	26.78
GPRS 4 Tx slots	24.52	24.60	24.62
EDGE 1 Tx slot	27.05	27.03	27.00
EDGE 2 Tx slots	24.64	24.62	24.59
EDGE 3 Tx slots	22.41	22.40	22.38
EDGE 4 Tx slots	20.55	20.51	20.49

GSM1900	Average Power (dBm)		
TX Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM 1 Tx slot	30.32	30.28	30.25
GPRS 1 Tx slot	30.35	30.30	30.26
GPRS 2 Tx slots	28.89	28.91	28.87
GPRS 3 Tx slots	26.52	26.59	26.50
GPRS 4 Tx slots	25.33	25.40	25.31
EDGE 1 Tx slot	26.52	26.46	26.42
EDGE 2 Tx slots	24.61	24.59	24.55
EDGE 3 Tx slots	23.48	23.44	23.41
EDGE 4 Tx slots	21.61	21.58	21.53





WCDMA Band V	Average Power (dBm)		
TX Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2Kbps	22.97	23.01	22.99
HSDPA Subtest-1	22.00	22.07	22.13
HSDPA Subtest-2	21.93	22.10	22.06
HSDPA Subtest-3	21.41	21.61	21.59
HSDPA Subtest-4	21.40	21.56	21.55
DC-HSDPA Subtest-1	22.02	22.08	22.08
DC-HSDPA Subtest-2	22.00	22.10	21.98
DC-HSDPA Subtest-3	21.51	21.60	21.47
DC-HSDPA Subtest-4	21.47	21.56	21.49
HSUPA Subtest-1	22.03	22.10	22.06
HSUPA Subtest-2	21.59	21.59	21.57
HSUPA Subtest-3	21.94	22.05	22.10
HSUPA Subtest-4	22.00	22.03	22.01
HSUPA Subtest-5	22.01	22.05	22.06
HSPA+ (16QAM) Subtest-1	22.03	22.02	22.01



2.2. Peak to Average Ratio

2.2.1. Requirement

According to FCC 24.232(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

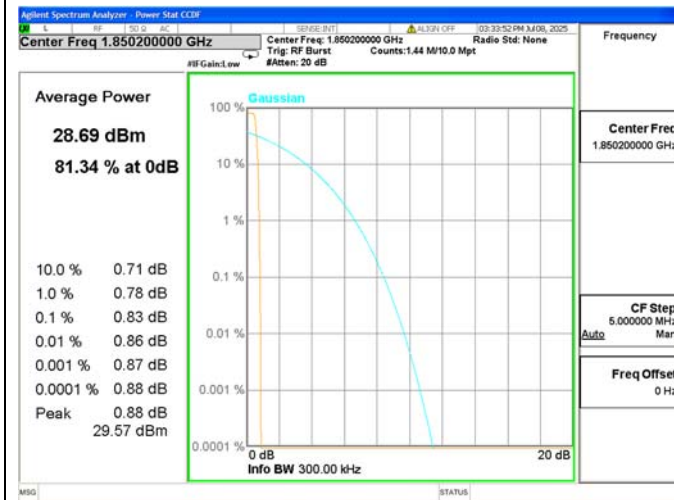
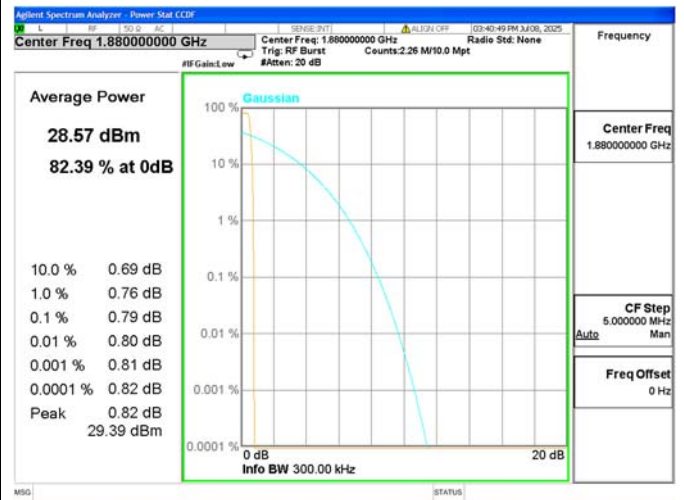
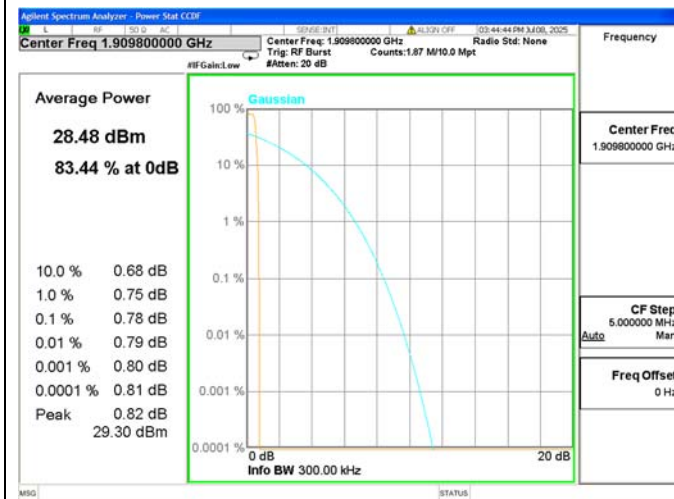
1. For GSM/EDGE operating mode:
 - a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
 - b. Set EUT in maximum output power, and triggered the bust signal.
 - c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.
2. For UMTS operating 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%.

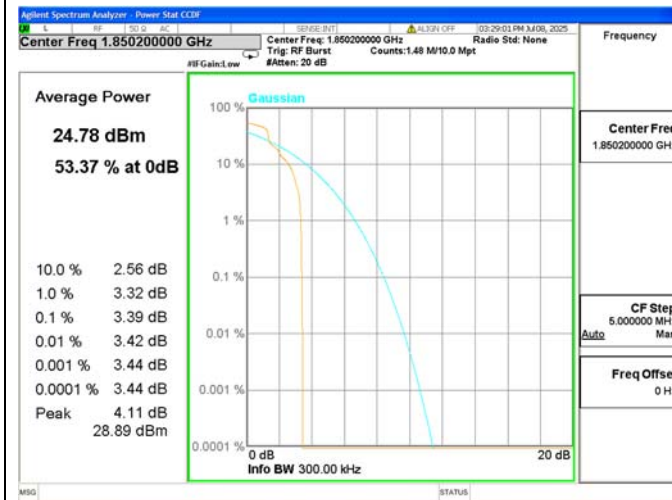
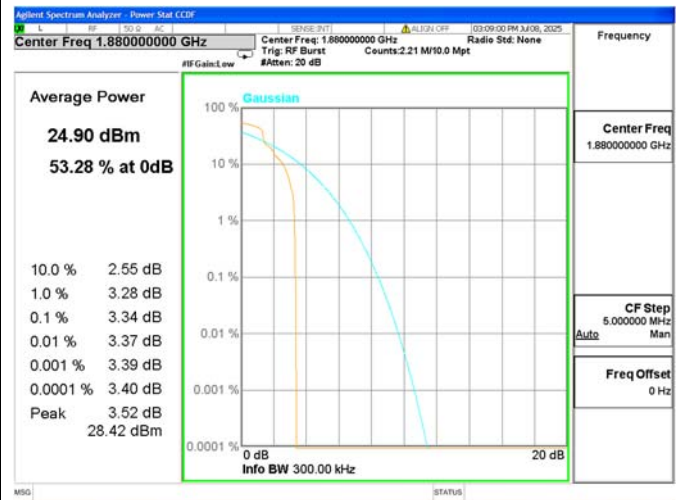
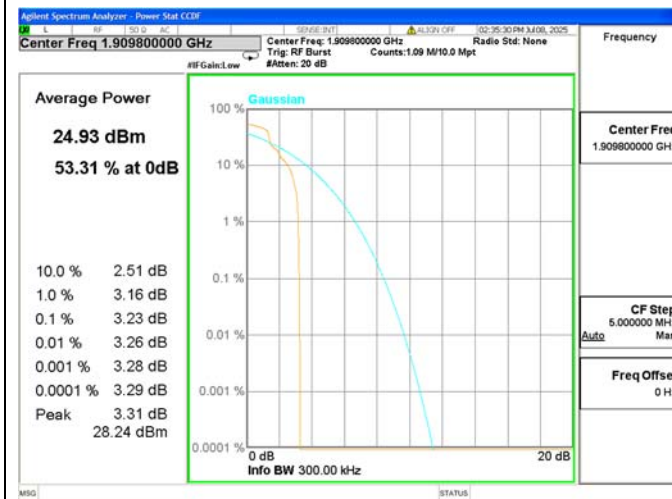


**2.2.4. Test Result****A. Test Verdict:**

GSM1900					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
GSM	512	1850.2	0.83	13	PASS
	661	1880.0	0.79		PASS
	810	1909.8	0.78		PASS
EDGE	512	1850.2	3.39		PASS
	661	1880.0	3.34		PASS
	810	1909.8	3.23		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**

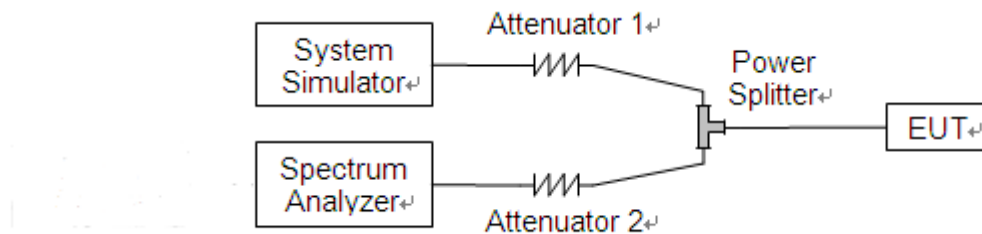
2.3. Occupied Bandwidth

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.



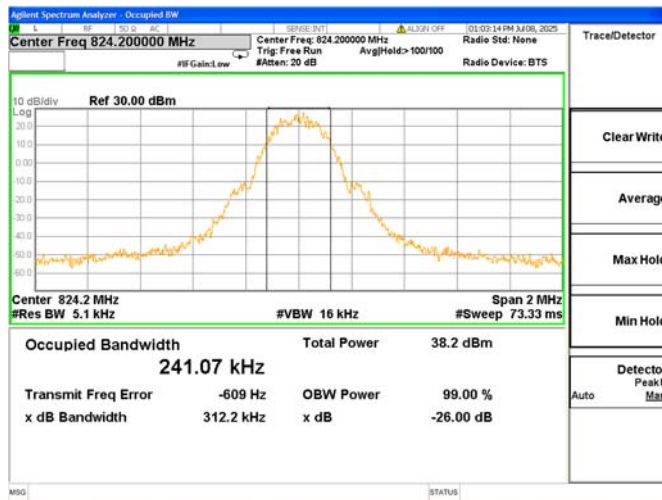
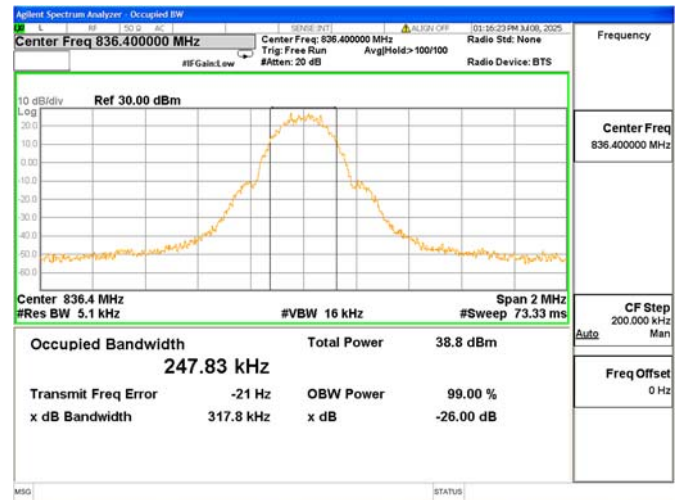
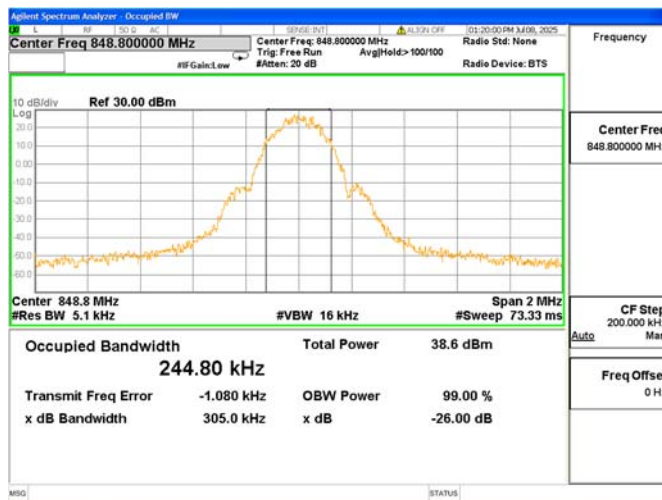
**2.3.3.Test Result**

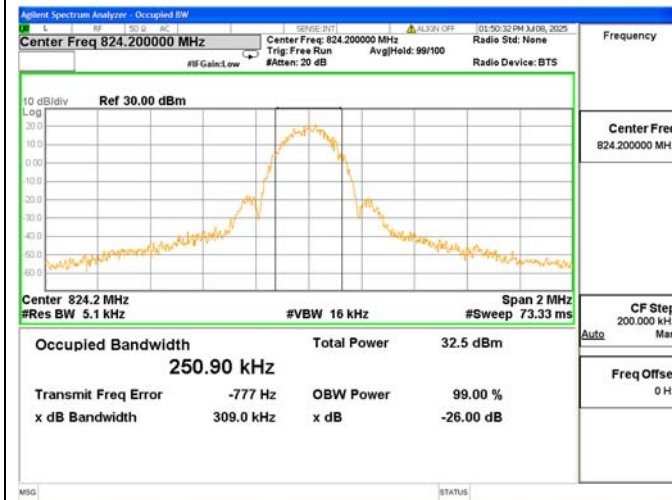
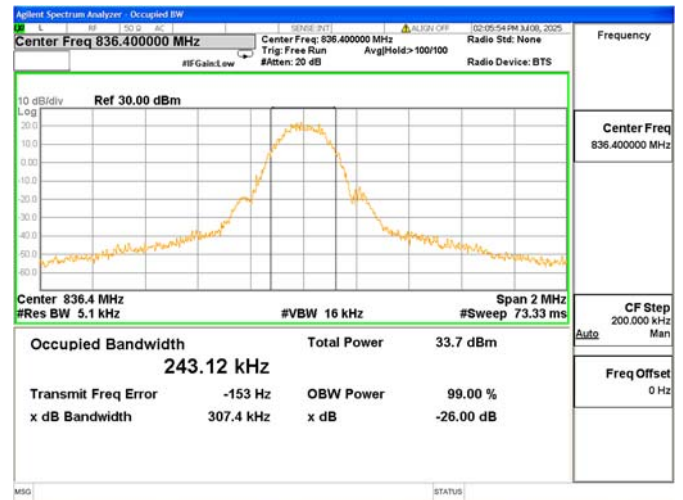
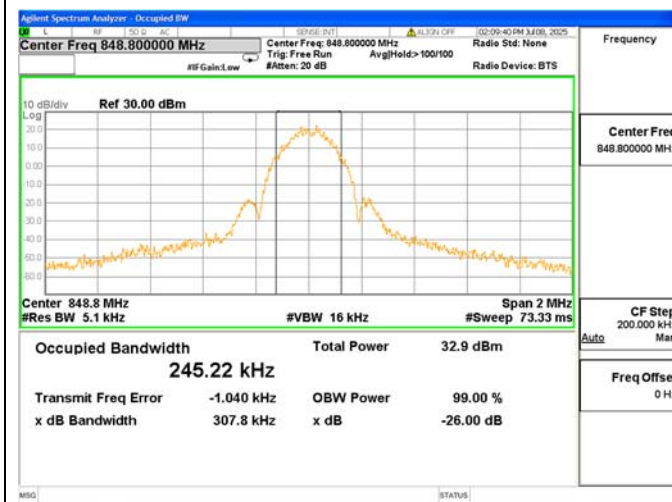
GSM850				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	128	824.2	241.07	312.20
	189	836.4	247.83	317.80
	251	848.8	244.80	305.00
EDGE	128	824.2	250.90	390.00
	189	836.4	243.12	307.40
	251	848.8	245.22	307.80

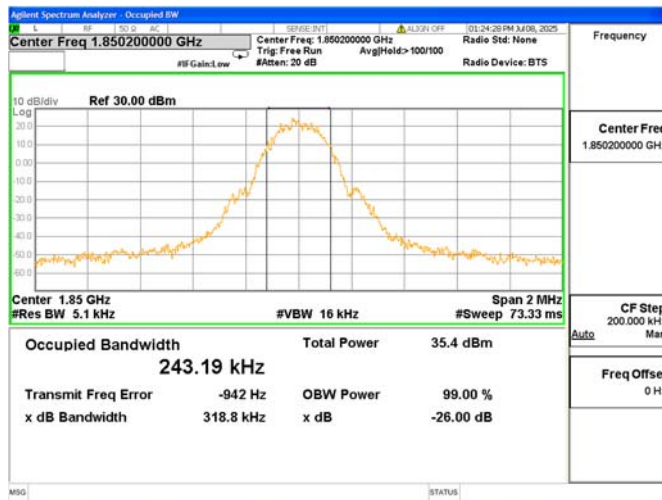
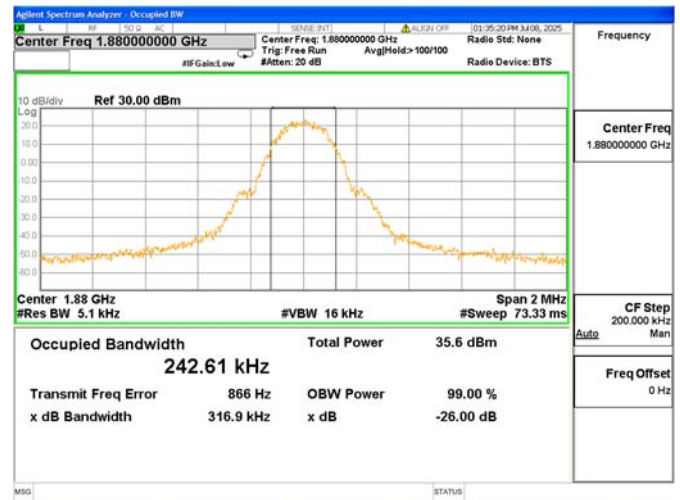
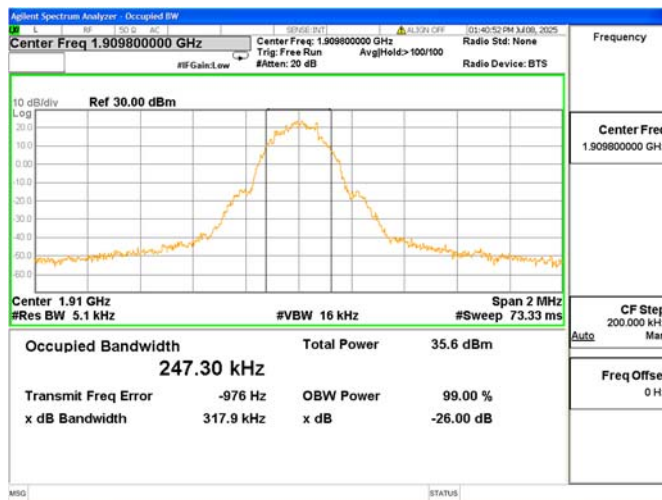
GSM1900				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	512	1850.2	243.19	318.80
	661	1880.0	242.61	316.90
	810	1909.8	247.30	317.90
EDGE	512	1850.2	251.56	314.10
	661	1880.0	250.64	312.10
	810	1909.8	251.12	304.30

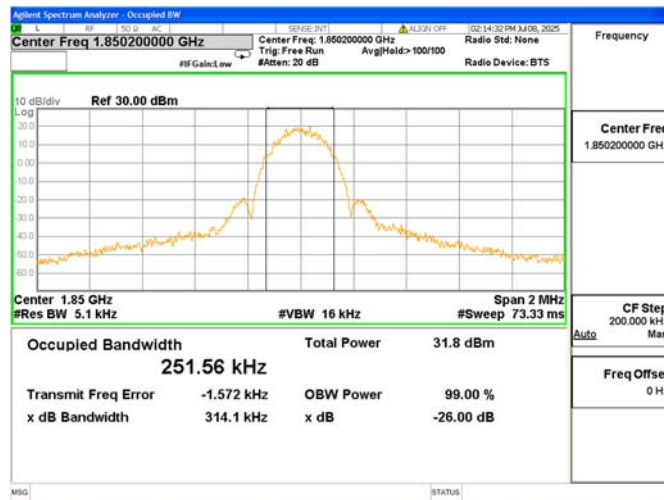
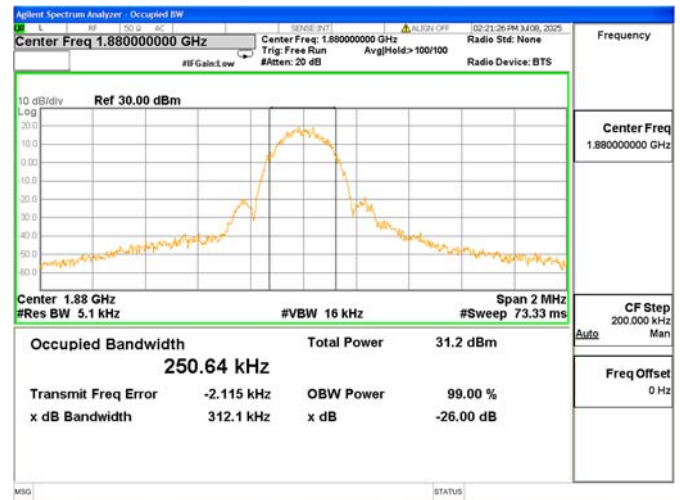
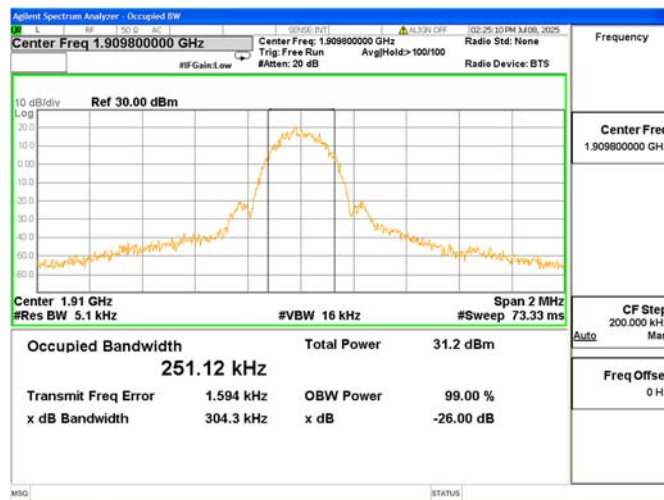
WCDMA Band V				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	4132	826.4	4.14	4.74
	4182	836.4	4.14	4.74
	4233	846.6	4.12	4.73

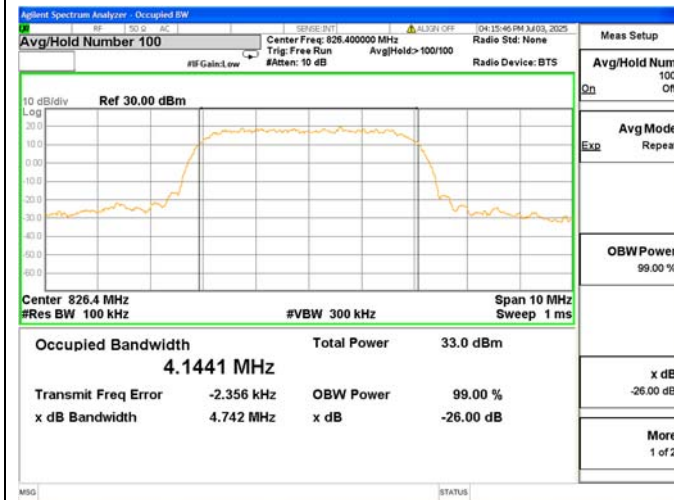
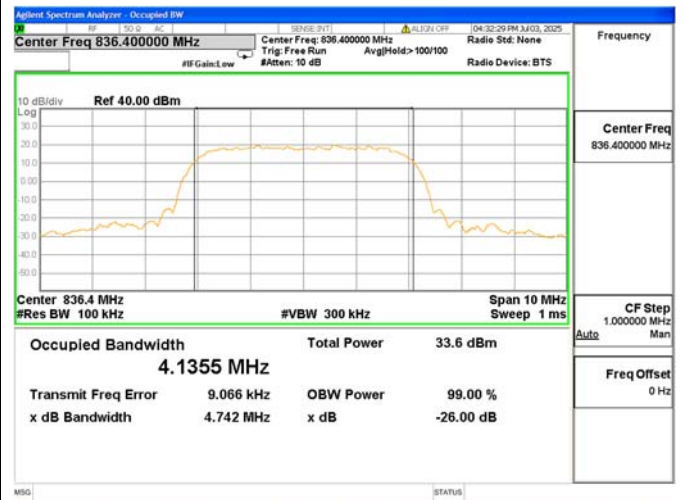
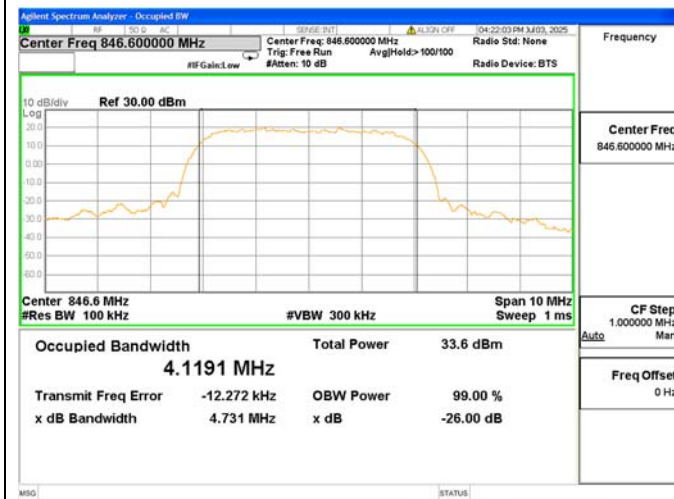


**GSM850(GSM), CH128, 824.2MHz****GSM850(GSM), CH189, 836.4MHz****GSM850(GSM), CH251, 848.8MHz**

**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**

2.4. Frequency Stability

2.4.1. Requirement

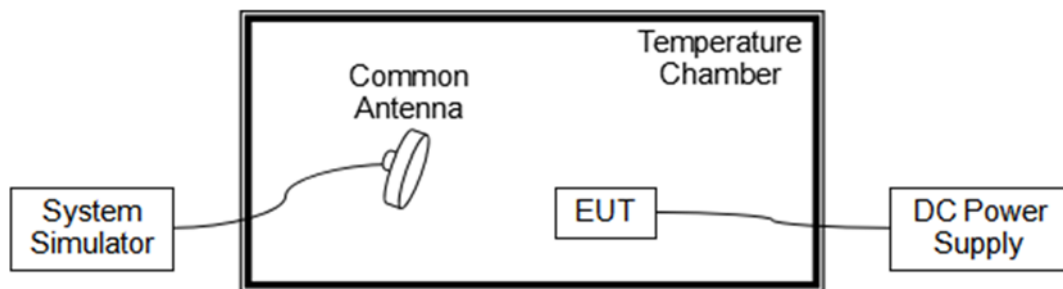
According to FCC section 22.355 and 24.235 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (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 0°C to 40°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 3.87V, 4.45V and 3.65V, 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	3.87	+20(Ref)	8	0.010	PASS
Normal		0	14	0.017	
Normal		+10	11	0.013	
Normal		+20	17	0.020	
Normal		+30	18	0.022	
Normal		+40	19	0.023	
High	4.45	+20	15	0.018	
BATT.ENDPOINT	3.65	+20	-19	-0.023	

GSM850(EDGE), CH189, 836.4MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	20	0.024	PASS
Normal		0	18	0.022	
Normal		+10	20	0.024	
Normal		+20	20	0.024	
Normal		+30	-7	-0.008	
Normal		+40	17	0.020	
High	4.45	+20	0	0.000	
BATT.ENDPOINT	3.65	+20	20	0.024	





GSM1900(GSM), CH661, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	18	0.010	PASS
Normal		0	16	0.009	
Normal		+10	-9	-0.005	
Normal		+20	16	0.009	
Normal		+30	17	0.009	
Normal		+40	-21	-0.011	
High	4.45	+20	-4	-0.002	
BATT.ENDPOINT	3.65	+20	13	0.007	

GSM1900(EDGE), CH661, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	22	0.012	PASS
Normal		0	-13	-0.007	
Normal		+10	-6	-0.003	
Normal		+20	13	0.007	
Normal		+30	13	0.007	
Normal		+40	15	0.008	
High	4.45	+20	22	0.012	
BATT.ENDPOINT	3.65	+20	22	0.012	





WCDMA Band V, CH4182, 836.4MHz Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	15	0.018	PASS
Normal		0	9	0.011	
Normal		+10	16	0.019	
Normal		+20	21	0.025	
Normal		+30	-7	-0.008	
Normal		+40	13	0.016	
High	4.45	+20	14	0.017	
BATT.ENDPOINT	3.65	+20	14	0.017	



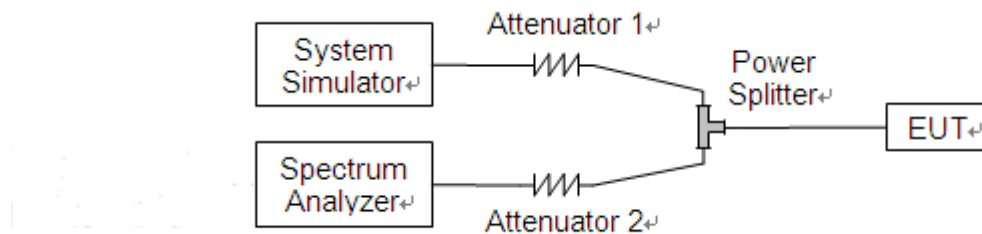
2.5. Conducted Out of Band Emissions

2.5.1. Requirement

According to FCC section 22.917(a) and 24.238(a) 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:



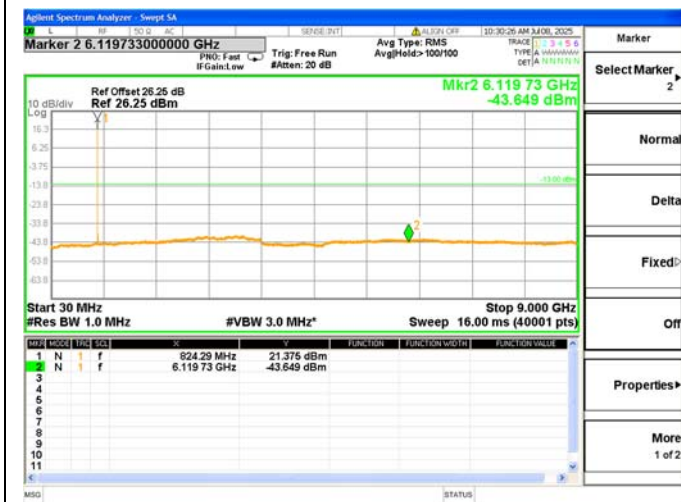
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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



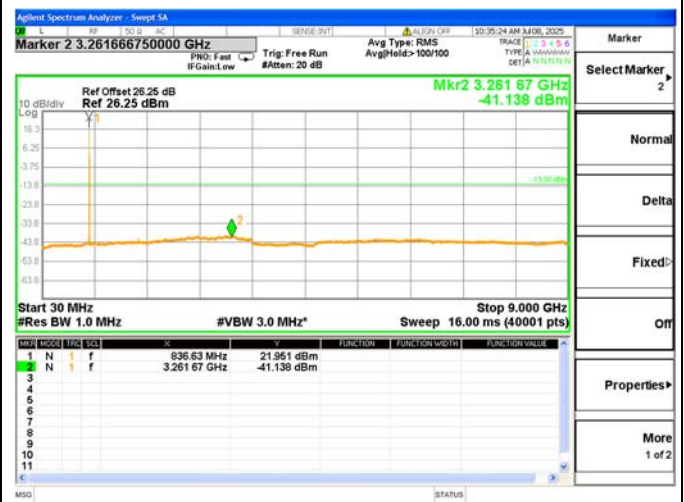


2.5.3. Test Result

GSM850(GSM), CH128, 824.2MHz



GSM850(GSM), CH189, 836.4MHz



GSM850(GSM), CH251, 848.8MHz

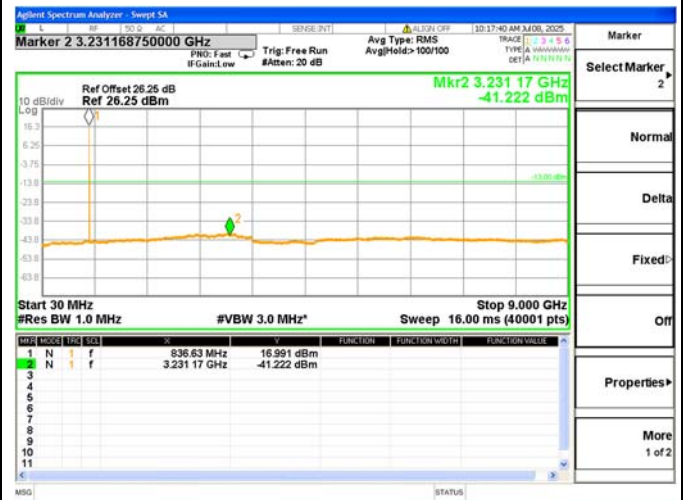




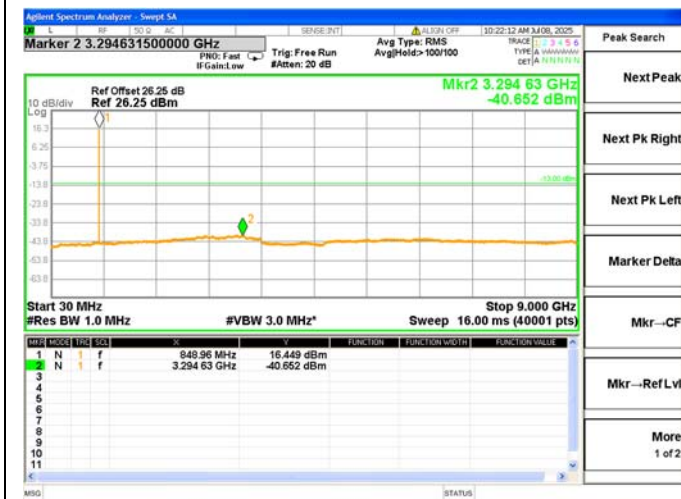
GSM850(EDGE), CH128, 824.2MHz



GSM850(EDGE), CH189, 836.4MHz

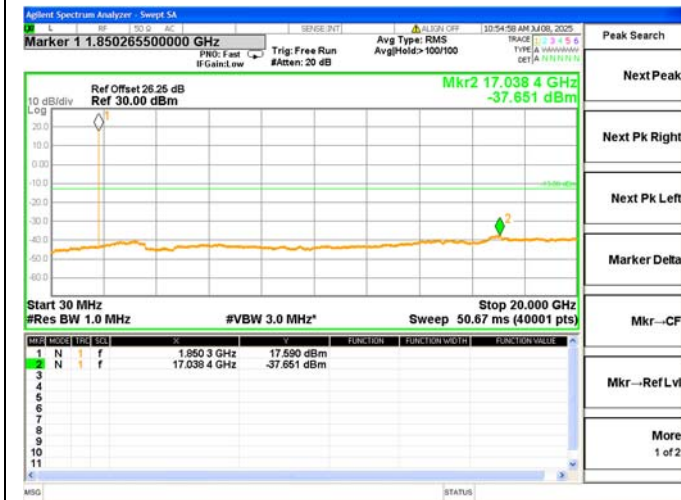


GSM850(EDGE), CH251, 848.8MHz

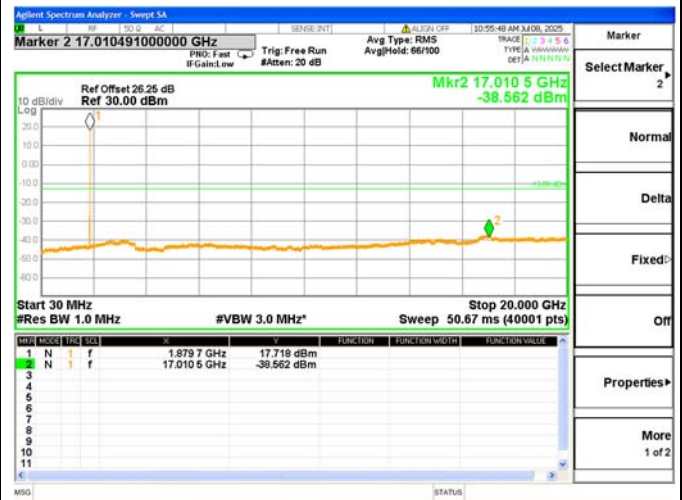




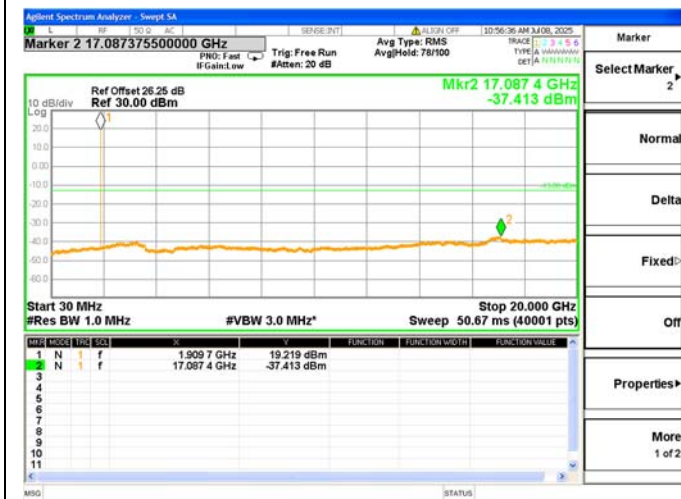
GSM1900(GSM), CH512, 1850.2MHz



GSM1900(GSM), CH661, 1880.0MHz

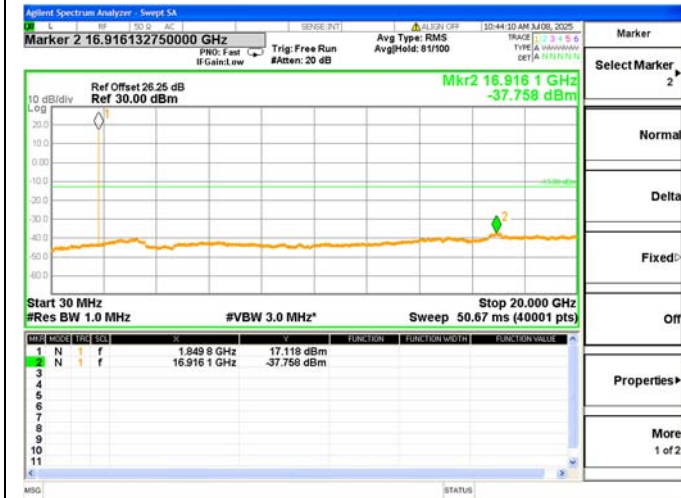


GSM1900(GSM), CH810, 1909.8MHz

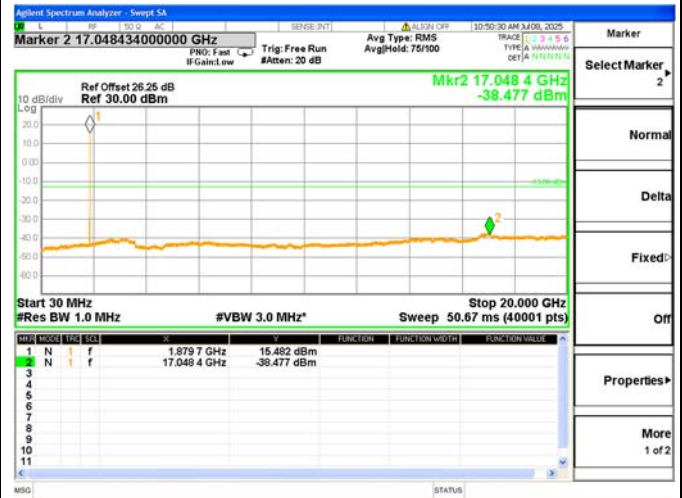




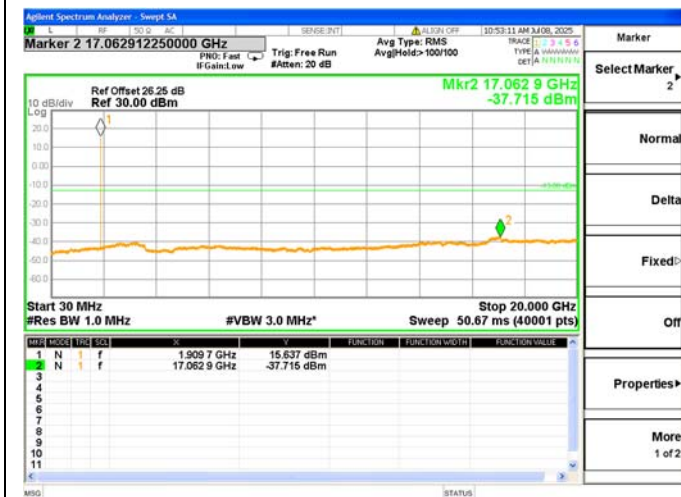
GSM1900(EDGE), CH512, 1850.2MHz



GSM1900(EDGE), CH661, 1880.0MHz

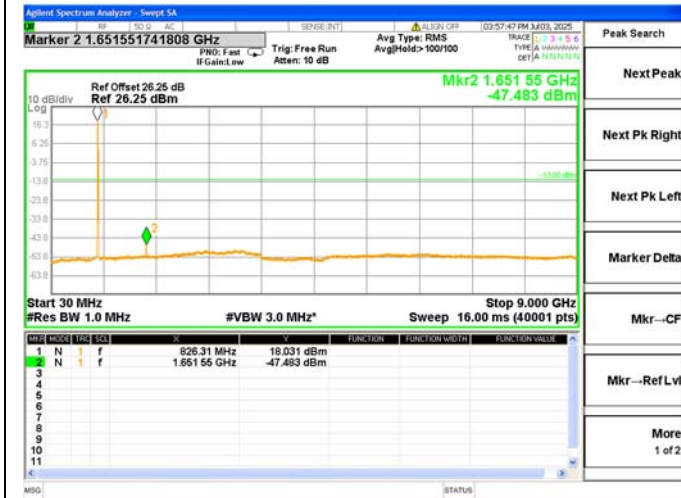


GSM1900(EDGE), CH810, 1909.8MHz

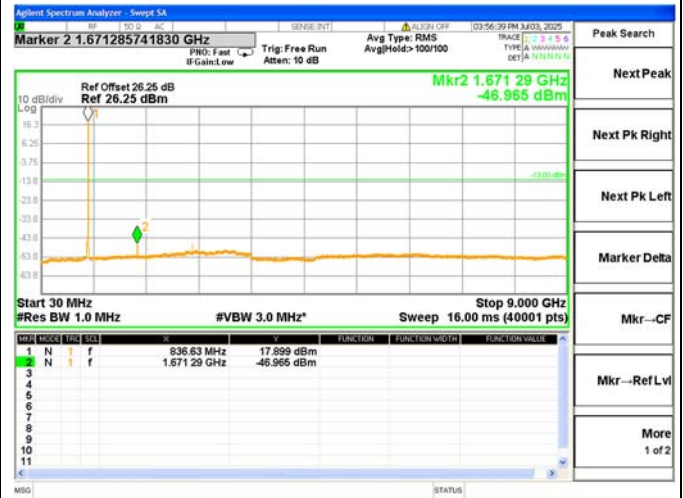




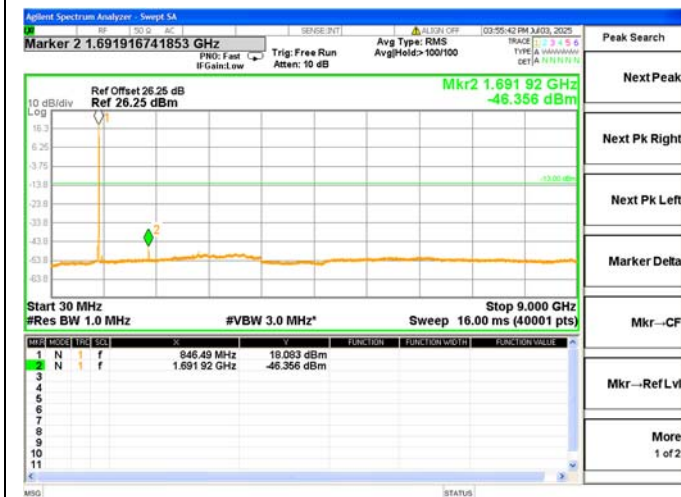
WCDMA Band V, CH4132, 826.4MHz



WCDMA Band V, CH4182, 836.4MHz



WCDMA Band V, CH4233, 846.6MHz



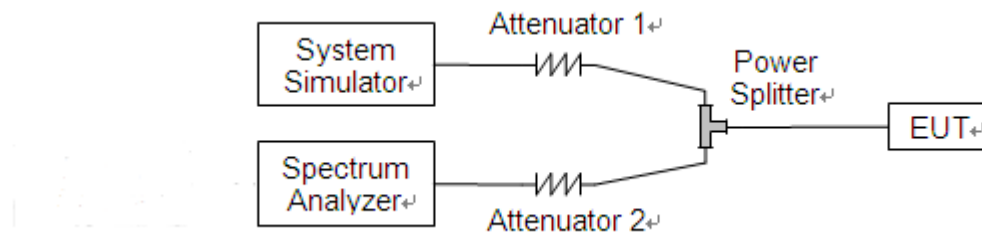
2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(a) and 24.238(a) 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 $43+10*\log(P)$ dB.

2.6.2. Test Description

Test Setup:



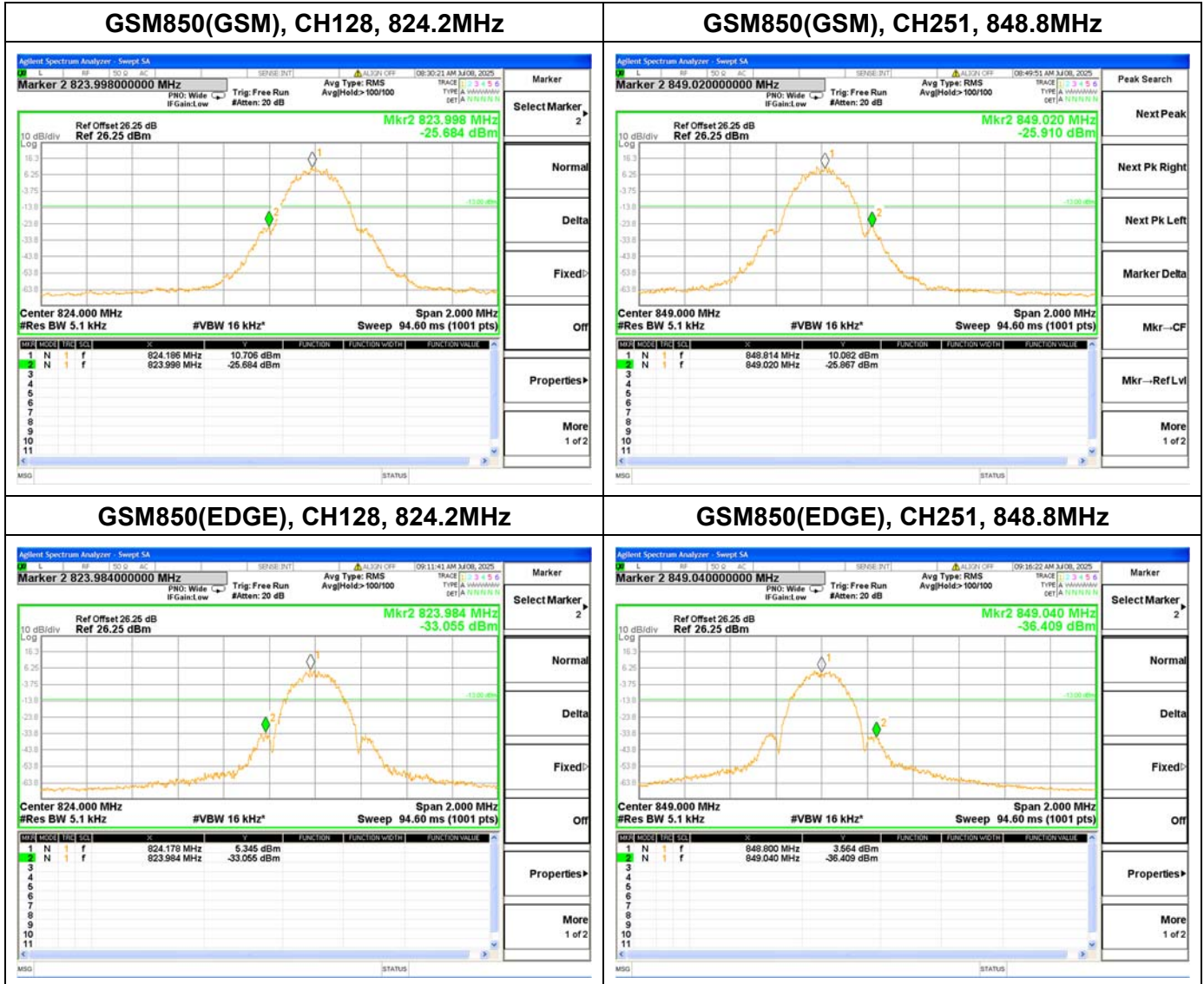
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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





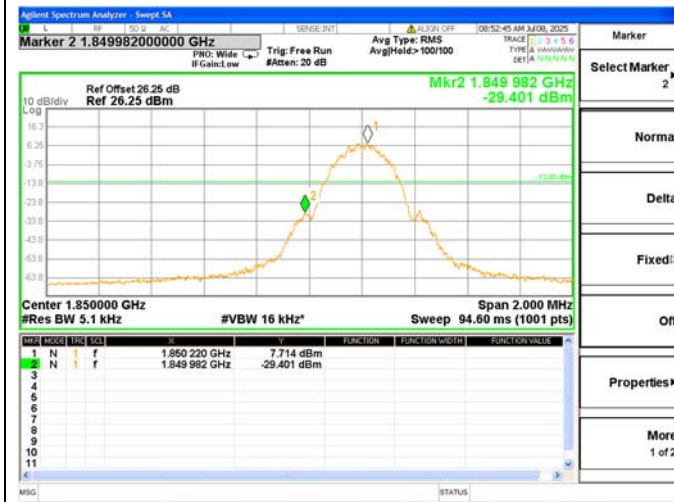
2.6.3. Test Result

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

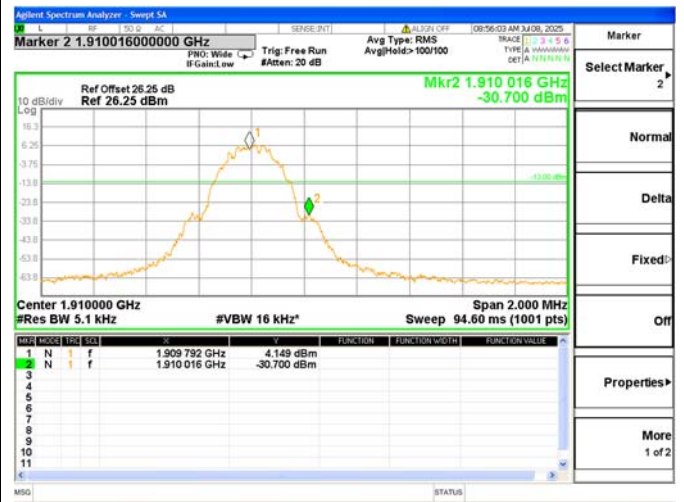




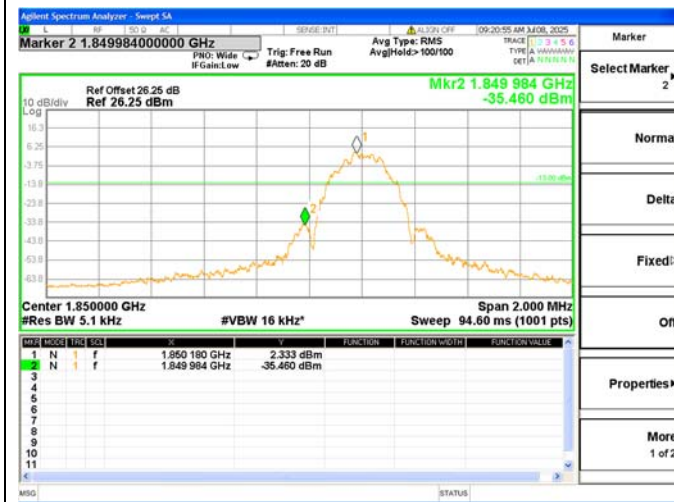
GSM1900(GSM), CH512, 1850.2MHz



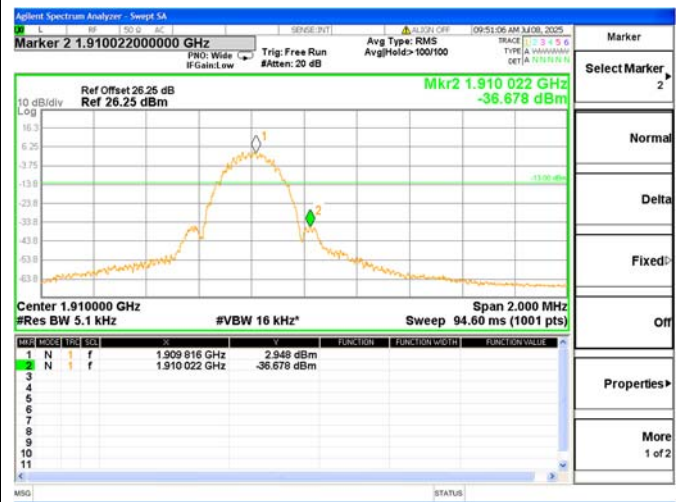
GSM1900(GSM), CH810, 1909.8MHz



GSM1900(EDGE), CH512, 1850.2MHz



GSM1900(EDGE), CH810, 1909.8MHz

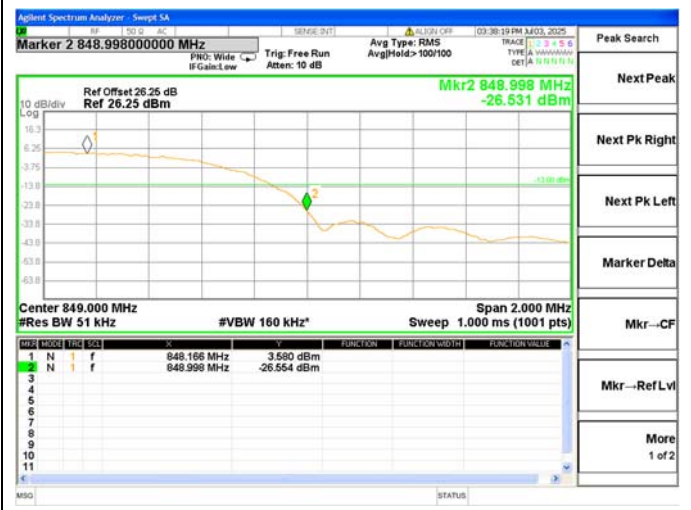




WCDMA Band V, CH4132, 826.4MHz



WCDMA Band V, CH4233, 846.6MHz



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.

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:

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

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) $\text{E.R.P.} = \text{E.I.R.P.} - 2.15$, where E.R.P. and E.I.R.P. are expressed in consistent units.

b) $\text{E.I.R.P.} = \text{E.R.P.} + 2.15$, 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	29.07	0.807	38.5	7	PASS
	189	836.40	5	29.12	0.817			PASS
	251	848.80	5	29.09	0.811			PASS
GPRS	128	824.20	5	29.09	0.811	38.5	7	PASS
	189	836.40	5	29.15	0.822			PASS
	251	848.80	5	29.11	0.815			PASS
EDGE	128	824.20	5	24.04	0.254	38.5	7	PASS
	189	836.40	5	24.02	0.252			PASS
	251	848.80	5	23.99	0.251			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	32.25	1.679	33	2	PASS
	661	1880.0	0	32.21	1.663			PASS
	810	1909.8	0	32.18	1.652			PASS
GPRS	512	1850.2	0	32.28	1.690	33	2	PASS
	661	1880.0	0	32.23	1.671			PASS
	810	1909.8	0	32.19	1.656			PASS
EDGE	512	1850.2	0	28.45	0.700	33	2	PASS
	661	1880.0	0	28.39	0.690			PASS
	810	1909.8	0	28.35	0.684			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	19.96	0.099	38.5	7	PASS
	4182	836.4	20.00	0.100			PASS
	4233	846.6	19.98	0.100			PASS
HSDPA	4132	826.4	18.99	0.079	38.5	7	PASS
	4182	836.4	19.09	0.081			PASS
	4233	846.6	19.12	0.082			PASS
DC- HSDPA	4132	826.4	19.01	0.080	38.5	7	PASS
	4182	836.4	19.09	0.081			PASS
	4233	846.6	19.07	0.081			PASS
HSUPA	4132	826.4	19.02	0.080	38.5	7	PASS
	4182	836.4	19.09	0.081			PASS
	4233	846.6	19.09	0.081			PASS
HSPA+	4132	826.4	19.02	0.080	38.5	7	PASS
	4182	836.4	19.01	0.080			PASS
	4233	846.6	19.00	0.079			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							

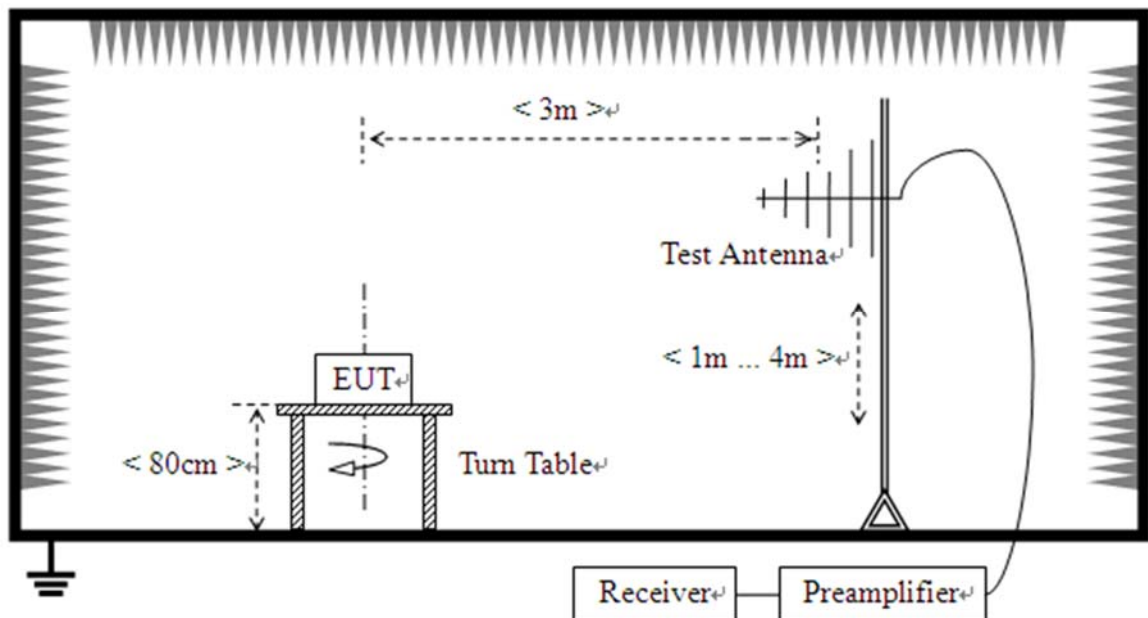


2.8. Radiated Out of Band Emissions

2.8.1. Requirement

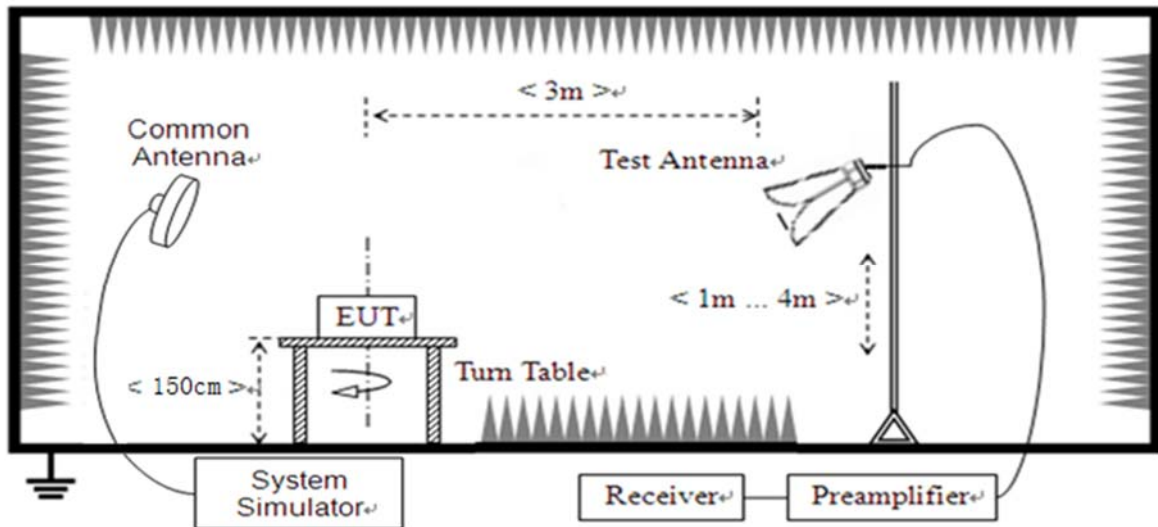
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

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.

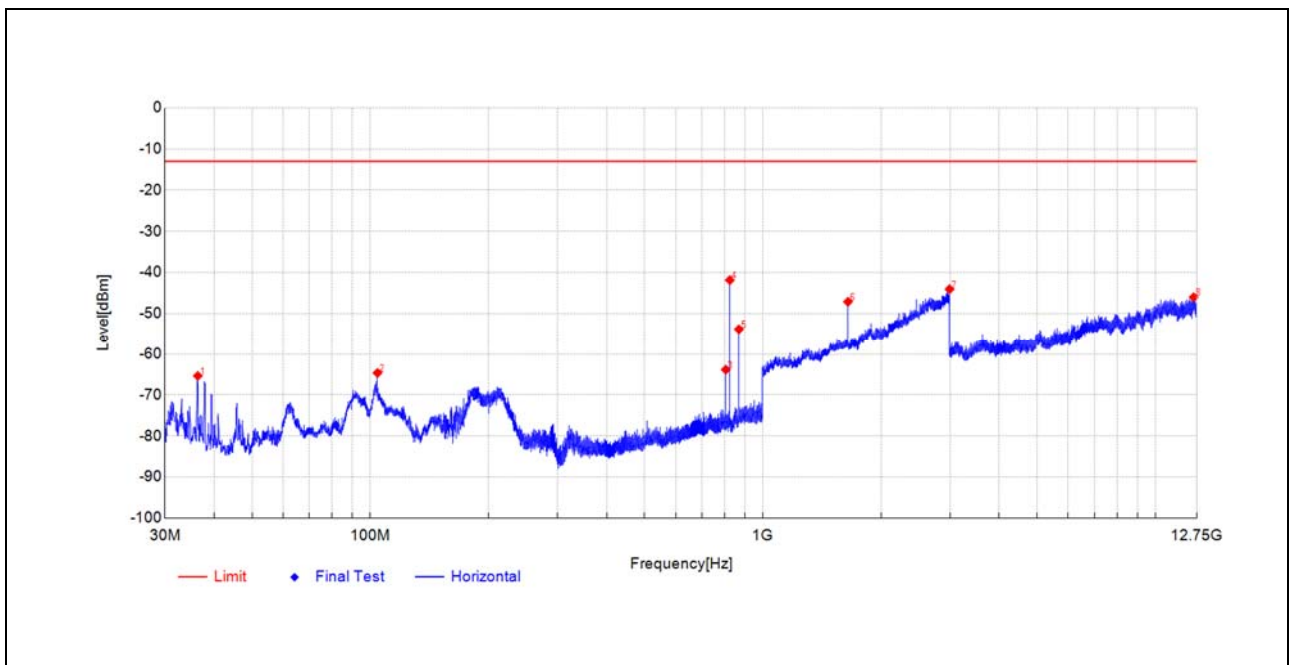
Note2: All test mode and condition mentioned were considered and evaluated respectively by performing full test, only the worst data were recorded and reported.

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.

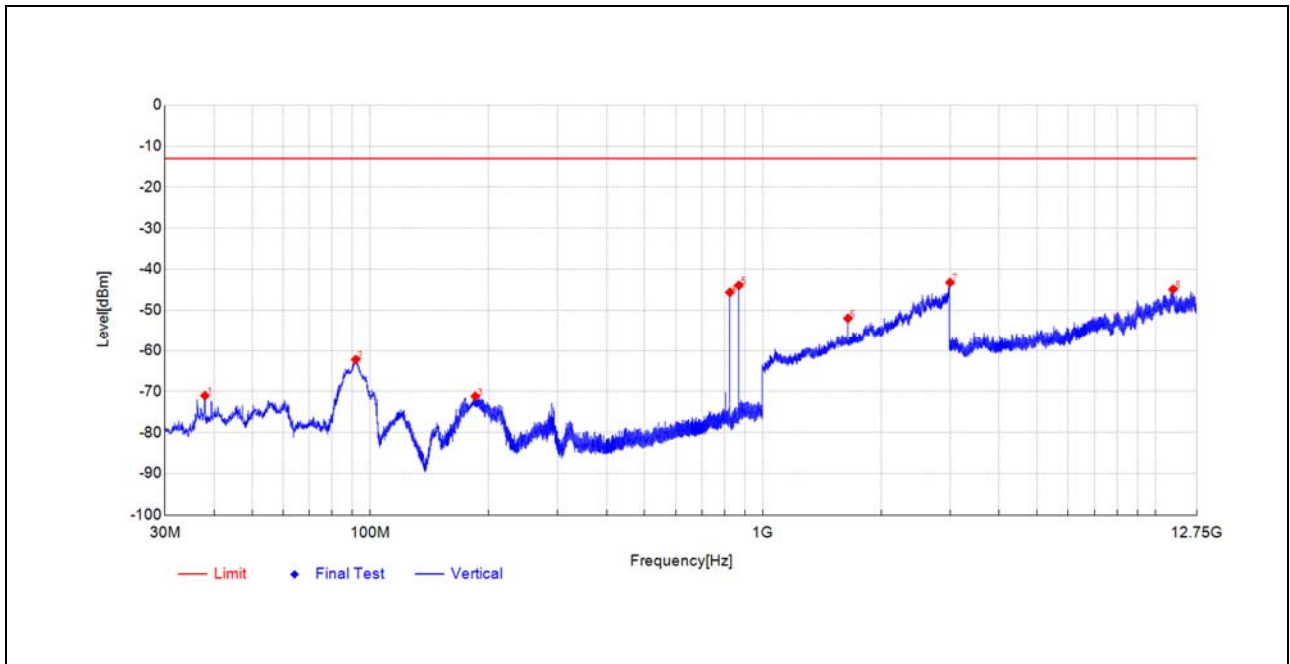
GSM850(GSM)

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3538	-50.14	-65.35	-15.2	-13.0	52.4	Horizontal	PK	PASS
104.3057	-42.13	-64.63	-22.5	-13.0	51.6	Horizontal	PK	PASS
804.9232	-57.71	-63.82	-6.1	-13.0	50.8	Horizontal	PK	PASS
824.1302	-36.03	-41.83	-5.8	-	-	Horizontal	PK	NA
869.286	-48.94	-53.80	-4.9	-	-	Horizontal	PK	NA
1648.1296	-49.74	-47.09	2.7	-13.0	34.1	Horizontal	PK	PASS
2990.7982	-58.89	-44.03	14.9	-13.0	31.0	Horizontal	PK	PASS
12520.376	-69.37	-45.98	23.4	-13.0	33.0	Horizontal	PK	PASS

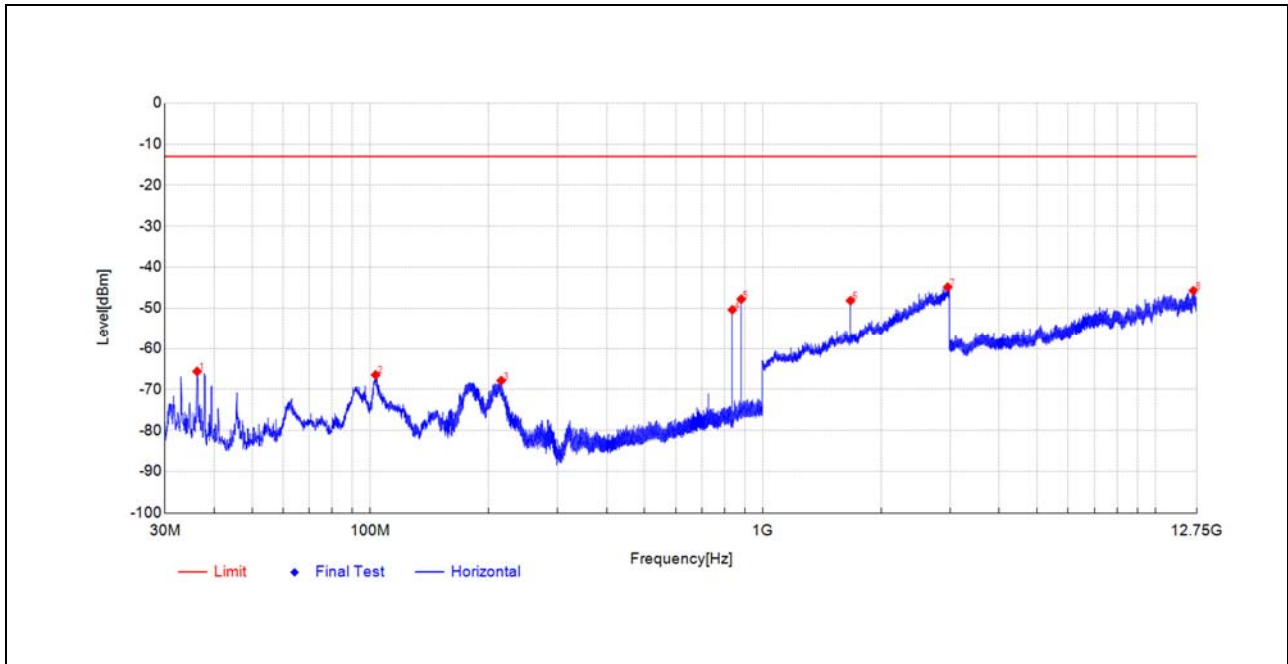




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-48.47	-71.02	-22.6	-13.0	58.0	Vertical	PK	PASS
91.7921	-40.26	-62.23	-22.0	-13.0	49.2	Vertical	PK	PASS
185.1593	-49.07	-71.20	-22.1	-13.0	58.2	Vertical	PK	PASS
824.1302	-39.72	-45.61	-5.9	-	-	Vertical	PK	NA
869.2375	-39.04	-43.91	-4.9	-	-	Vertical	PK	NA
1648.5297	-54.45	-51.97	2.5	-13.0	39.0	Vertical	PK	PASS
2998.3997	-60.28	-43.20	17.1	-13.0	30.2	Vertical	PK	PASS
11099.73	-67.29	-44.88	22.4	-13.0	31.9	Vertical	PK	PASS

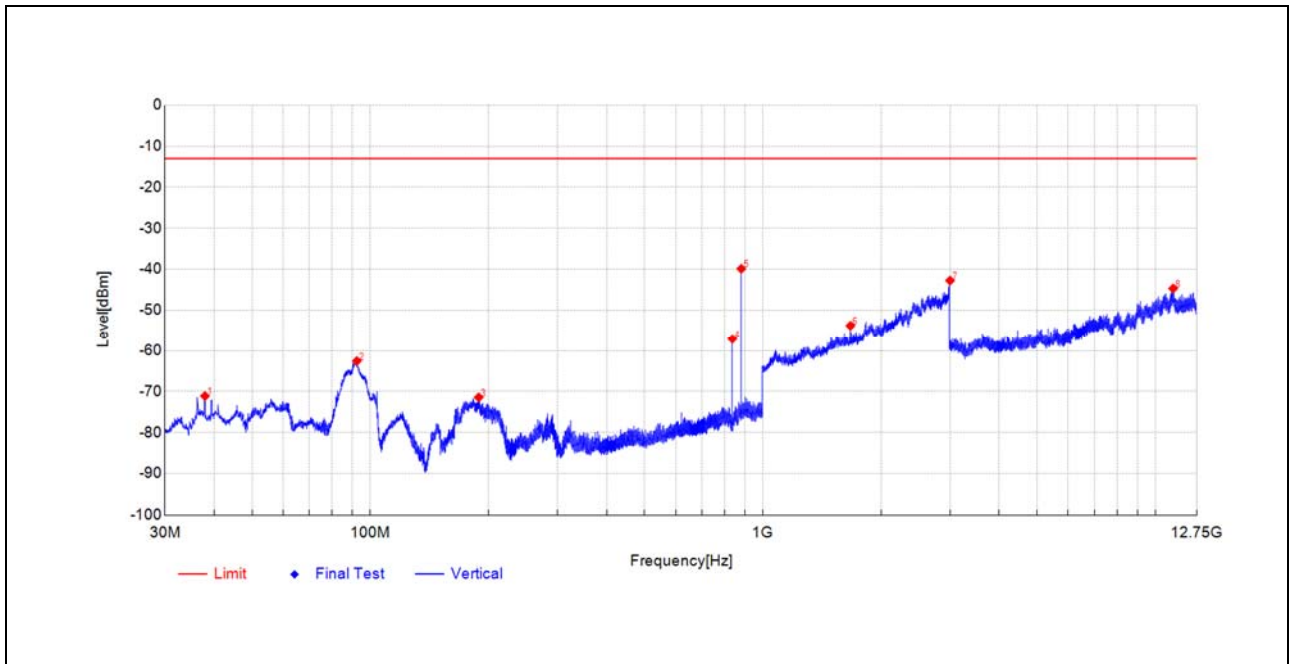


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.2083	-50.42	-65.63	-15.2	-13.0	52.6	Horizontal	PK	PASS
103.1902	-43.91	-66.46	-22.6	-13.0	53.5	Horizontal	PK	PASS
215.5703	-52.02	-67.86	-15.8	-13.0	54.9	Horizontal	PK	PASS
836.4498	-44.83	-50.36	-5.5	-	-	Horizontal	PK	NA
881.3146	-43.05	-47.79	-4.7	-	-	Horizontal	PK	NA
1672.5345	-50.64	-48.14	2.5	-13.0	35.1	Horizontal	PK	PASS
2959.1918	-59.93	-44.84	15.1	-13.0	31.8	Horizontal	PK	PASS
12503.800	-69.14	-45.72	23.4	-13.0	32.7	Horizontal	PK	PASS

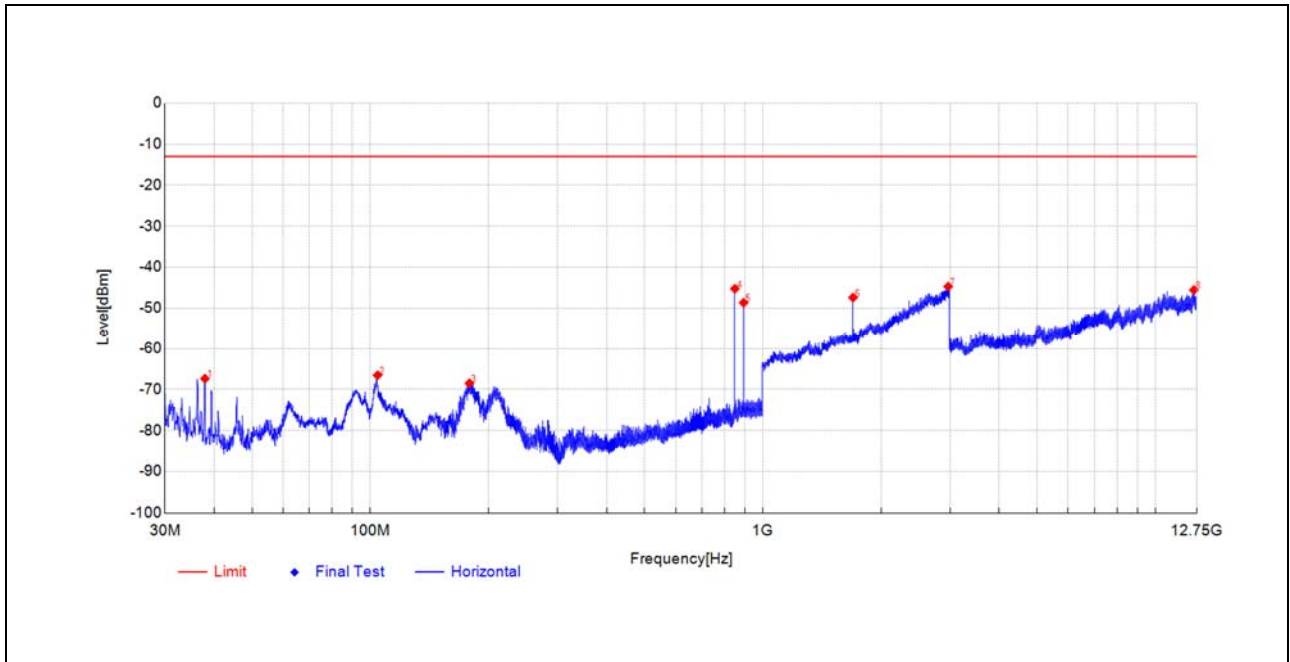




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-48.56	-71.11	-22.6	-13.0	58.1	Vertical	PK	PASS
92.4226	-40.66	-62.57	-21.9	-13.0	49.6	Vertical	PK	PASS
188.8454	-49.51	-71.44	-21.9	-13.0	58.4	Vertical	PK	PASS
836.4498	-51.27	-57.10	-5.8	-	-	Vertical	PK	NA
881.4601	-35.39	-39.86	-4.5	-	-	Vertical	PK	NA
1672.5345	-56.52	-53.78	2.7	-13.0	40.8	Vertical	PK	PASS
2999.5999	-59.95	-42.73	17.2	-13.0	29.7	Vertical	PK	PASS
11102.655	-67.04	-44.66	22.4	-13.0	31.7	Vertical	PK	PASS

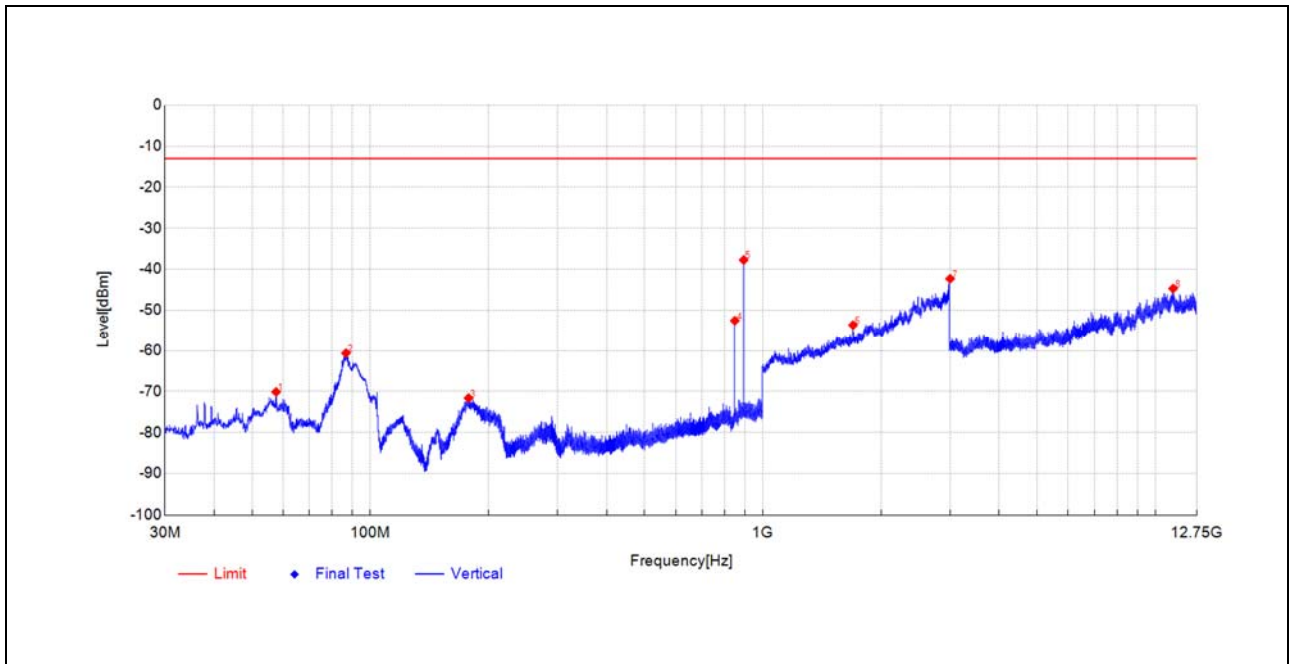


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-52.14	-67.37	-15.2	-13.0	54.4	Horizontal	PK	PASS
104.3542	-44.05	-66.55	-22.5	-13.0	53.6	Horizontal	PK	PASS
178.9024	-47.34	-68.51	-21.2	-13.0	55.5	Horizontal	PK	PASS
848.8664	-40.03	-45.22	-5.2	-	-	Horizontal	PK	NA
893.7797	-43.95	-48.62	-4.7	-	-	Horizontal	PK	NA
1697.7395	-50.31	-47.38	2.9	-13.0	34.4	Horizontal	PK	PASS
2966.3933	-59.64	-44.69	15.0	-13.0	31.7	Horizontal	PK	PASS
12538.414	-68.89	-45.54	23.4	-13.0	32.5	Horizontal	PK	PASS



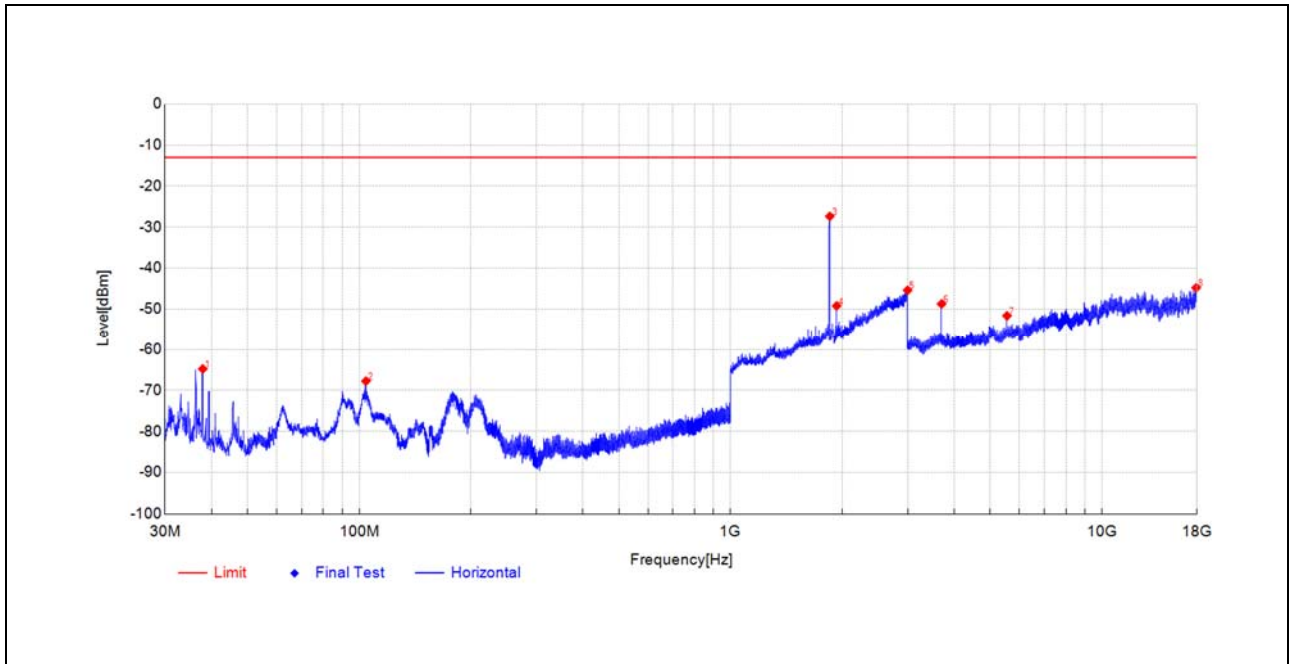


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
57.5494	-52.60	-70.11	-17.5	-13.0	57.1	Vertical	PK	PASS
86.6993	-38.19	-60.65	-22.5	-13.0	47.7	Vertical	PK	PASS
177.9809	-49.17	-71.62	-22.5	-13.0	58.6	Vertical	PK	PASS
848.8179	-47.00	-52.53	-5.5	-	-	Vertical	PK	NA
893.8767	-33.28	-37.71	-4.4	-	-	Vertical	PK	NA
1697.7395	-56.73	-53.63	3.1	-13.0	40.6	Vertical	PK	PASS
3000	-59.55	-42.29	17.3	-13.0	29.3	Vertical	PK	PASS
11102.167	-67.06	-44.68	22.4	-13.0	31.7	Vertical	PK	PASS



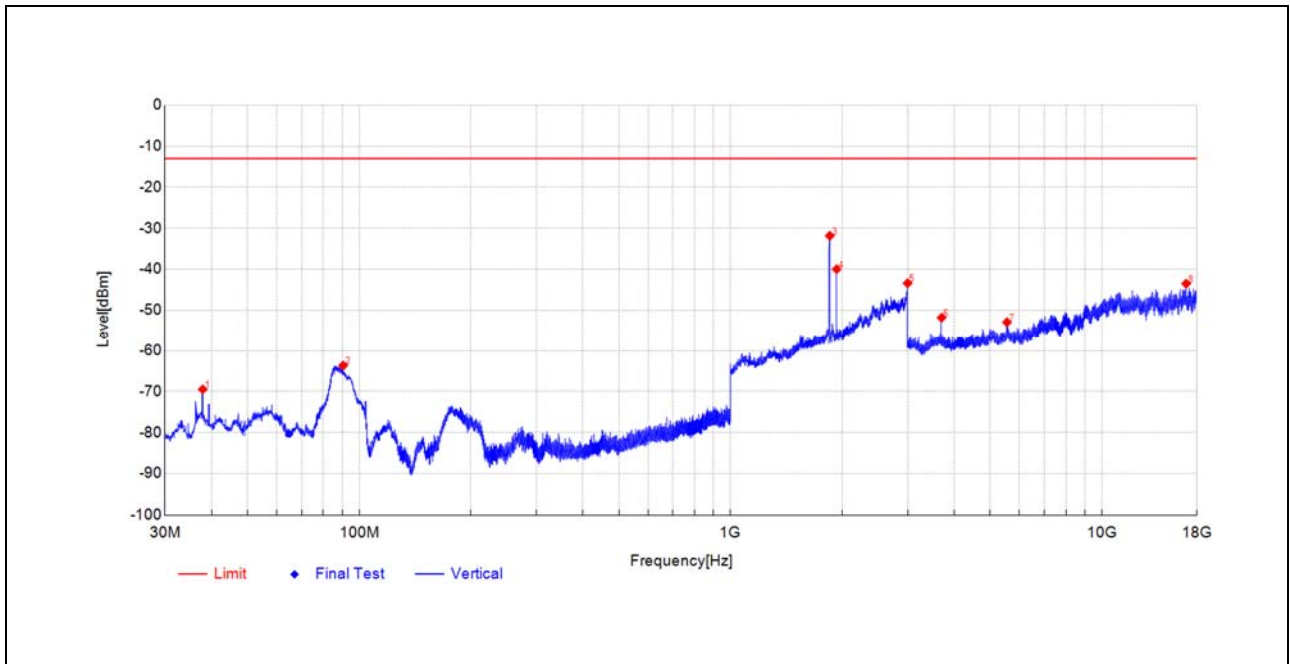
**GSM1900(GSM)**

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-49.50	-64.77	-15.3	-13.0	51.8	Horizontal	PK	PASS
104.2572	-45.02	-67.74	-22.7	-13.0	54.7	Horizontal	PK	PASS
1849.77	-31.63	-27.35	4.3	-	-	Horizontal	PK	NA
1930.186	-53.08	-49.17	3.9	-	-	Horizontal	PK	NA
2997.1994	-59.34	-45.37	14.0	-13.0	32.4	Horizontal	PK	PASS
3699.9571	-50.48	-48.70	1.8	-13.0	35.7	Horizontal	PK	PASS
5550.793	-58.27	-51.61	6.7	-13.0	38.6	Horizontal	PK	PASS
17934.237	-69.03	-44.77	24.3	-13.0	31.8	Horizontal	PK	PASS

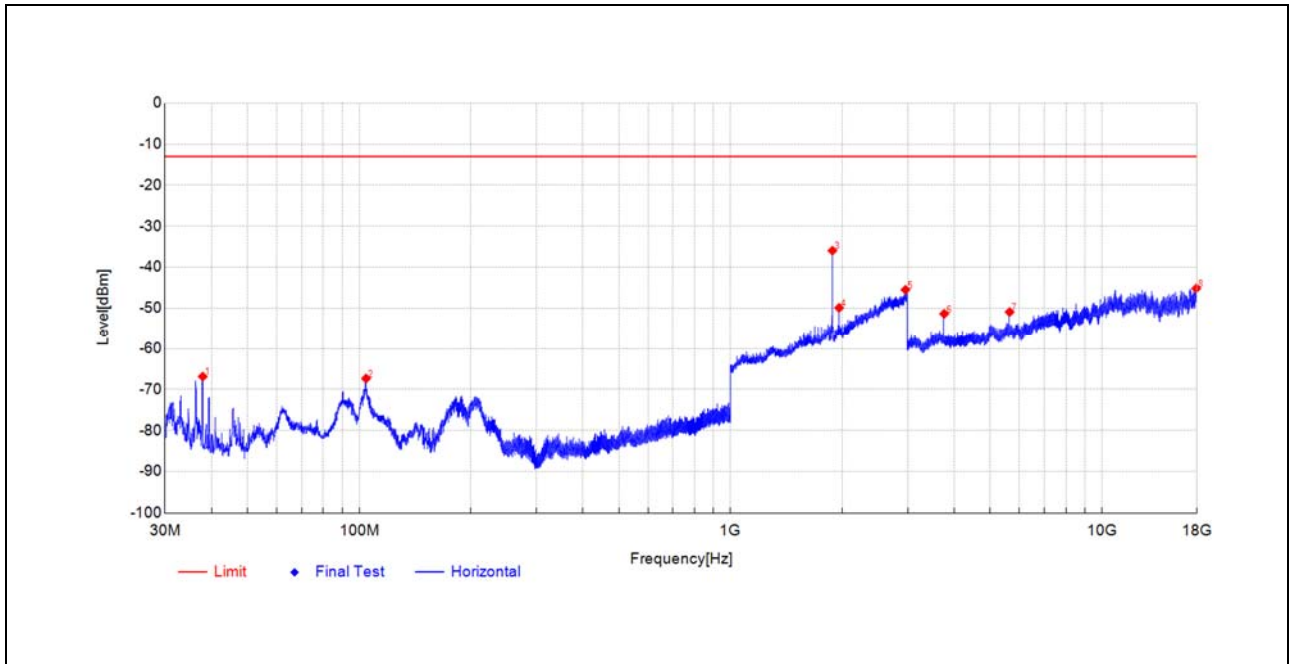




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-46.90	-69.49	-22.6	-13.0	56.5	Vertical	PK	PASS
90.4825	-41.42	-63.70	-22.3	-13.0	50.7	Vertical	PK	PASS
1850.17	-36.14	-31.82	4.3	-	-	Vertical	PK	NA
1930.186	-43.81	-39.95	3.9	-	-	Vertical	PK	NA
2996.7994	-59.26	-43.38	15.9	-13.0	30.4	Vertical	PK	PASS
3700.8144	-53.54	-51.78	1.8	-13.0	38.8	Vertical	PK	PASS
5550.3643	-59.25	-52.90	6.4	-13.0	39.9	Vertical	PK	PASS
16864.274	-69.66	-43.49	26.2	-13.0	30.5	Vertical	PK	PASS

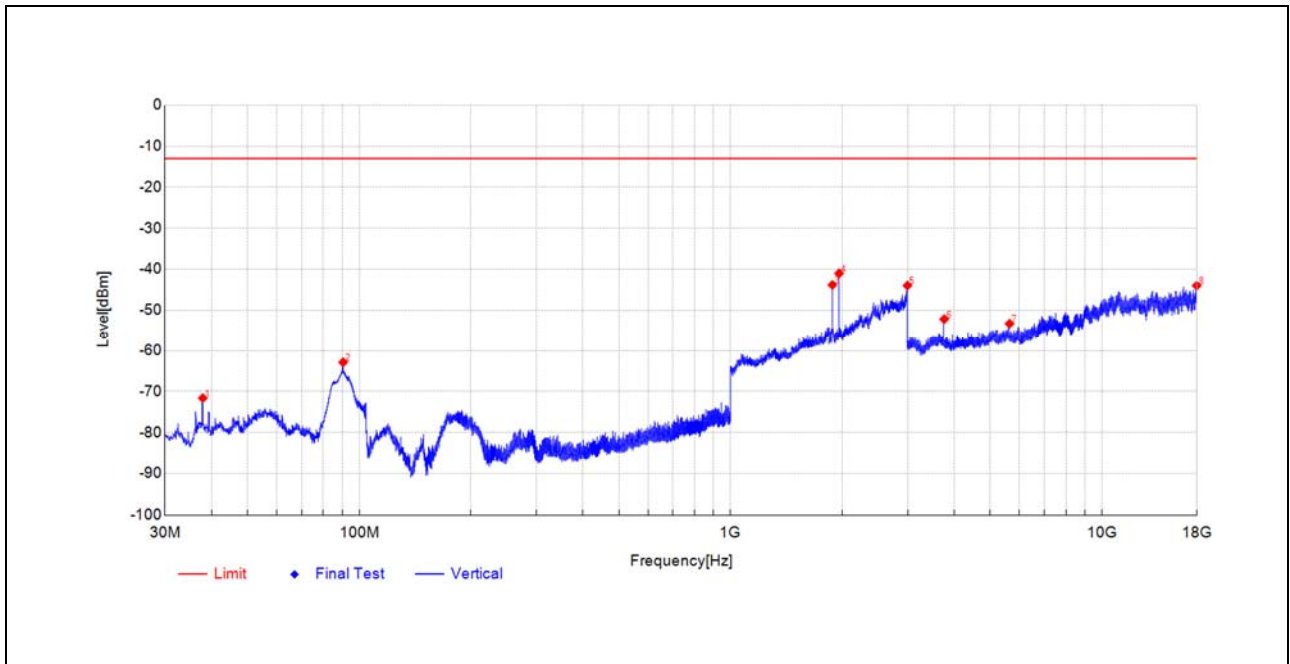


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-51.59	-66.86	-15.3	-13.0	53.9	Horizontal	PK	PASS
104.3057	-44.62	-67.34	-22.7	-13.0	54.3	Horizontal	PK	PASS
1880.176	-41.22	-35.94	5.3	-	-	Horizontal	PK	NA
1960.192	-54.39	-49.89	4.5	-	-	Horizontal	PK	NA
2957.5915	-59.25	-45.48	13.8	-13.0	32.5	Horizontal	PK	PASS
3759.9657	-52.53	-51.35	1.2	-13.0	38.4	Horizontal	PK	PASS
5639.9486	-58.00	-50.90	7.1	-13.0	37.9	Horizontal	PK	PASS
17945.277	-69.34	-45.16	24.2	-13.0	32.2	Horizontal	PK	PASS

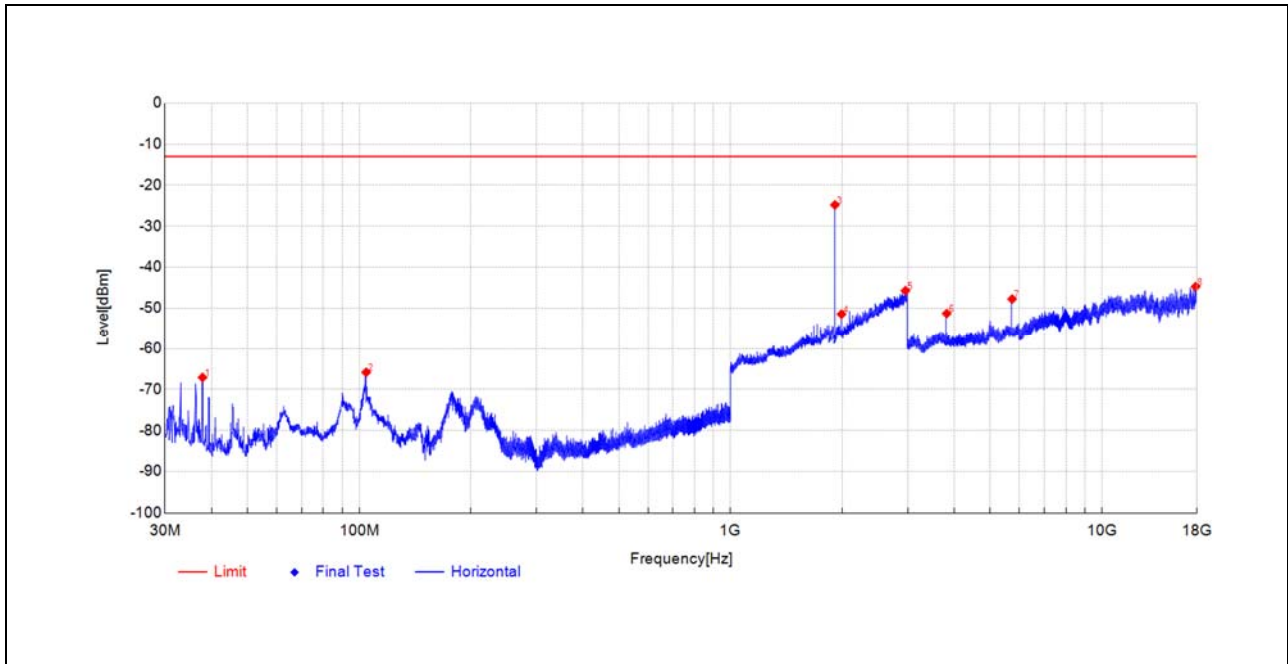




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-49.02	-71.61	-22.6	-13.0	58.6	Vertical	PK	PASS
90.4825	-40.61	-62.89	-22.3	-13.0	49.9	Vertical	PK	PASS
1880.176	-48.91	-43.80	5.1	-	-	Vertical	PK	NA
1959.792	-45.17	-40.98	4.2	-	-	Vertical	PK	NA
2993.9988	-59.49	-43.95	15.5	-13.0	31.0	Vertical	PK	PASS
3759.9657	-53.24	-52.16	1.1	-13.0	39.2	Vertical	PK	PASS
5639.9486	-59.95	-53.25	6.7	-13.0	40.3	Vertical	PK	PASS
17999.52	-67.99	-43.98	24.0	-13.0	31.0	Vertical	PK	PASS

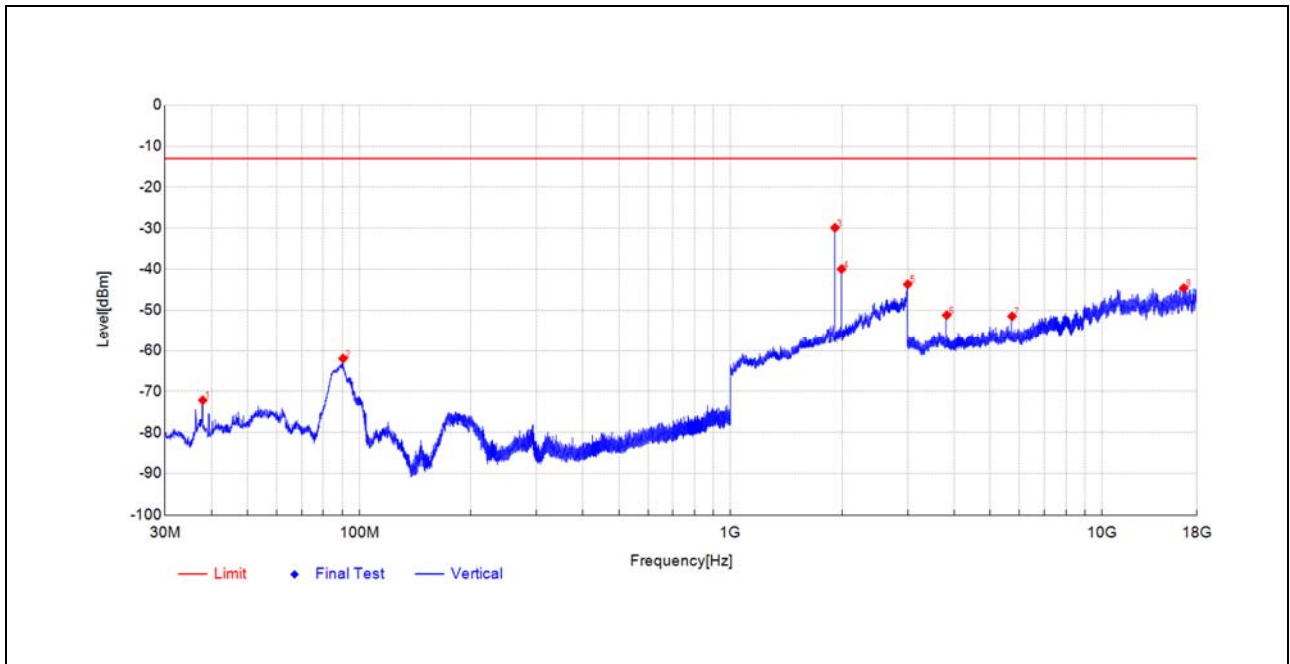


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.8574	-51.81	-67.08	-15.3	-13.0	54.1	Horizontal	PK	PASS
104.3542	-43.12	-65.84	-22.7	-13.0	52.8	Horizontal	PK	PASS
1909.782	-29.03	-24.80	4.2	-	-	Horizontal	PK	NA
1989.3979	-55.77	-51.44	4.3	-	-	Horizontal	PK	NA
2957.9916	-59.47	-45.70	13.8	-13.0	32.7	Horizontal	PK	PASS
3819.9743	-52.16	-51.28	0.9	-13.0	38.3	Horizontal	PK	PASS
5729.5328	-55.17	-47.74	7.4	-13.0	34.7	Horizontal	PK	PASS
17882.875	-69.15	-44.71	24.4	-13.0	31.7	Horizontal	PK	PASS



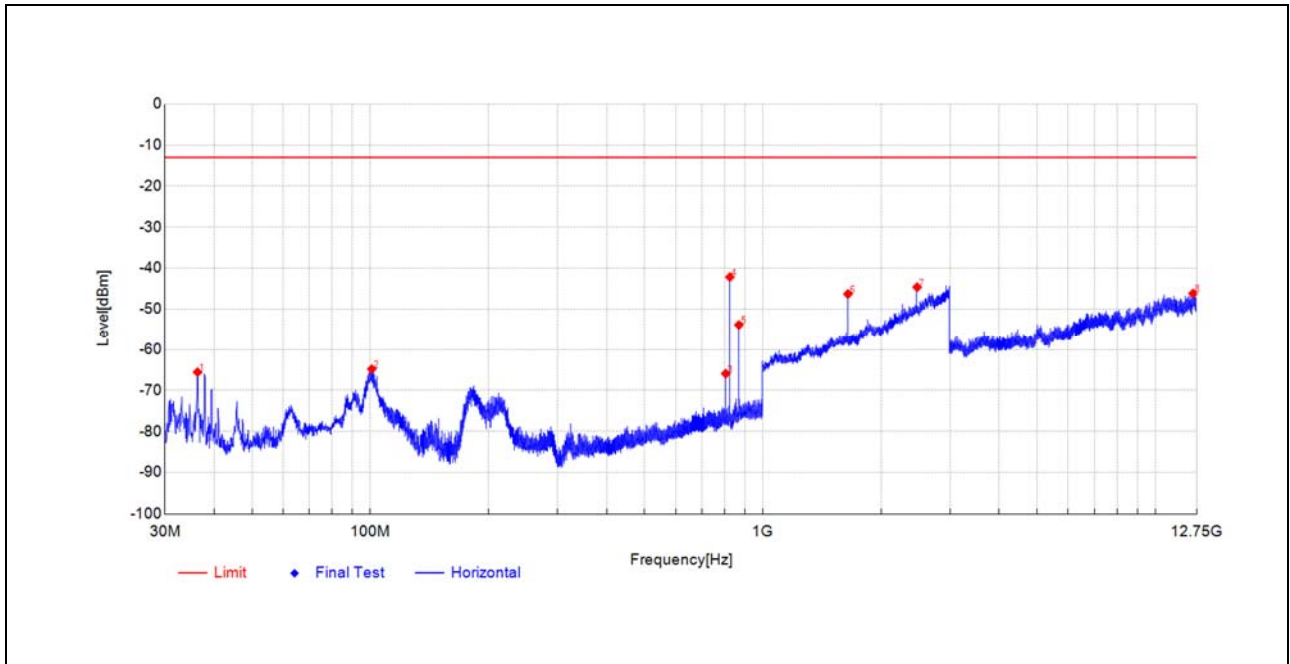


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-49.55	-72.14	-22.6	-13.0	59.1	Vertical	PK	PASS
90.4825	-39.68	-61.96	-22.3	-13.0	49.0	Vertical	PK	PASS
1910.182	-34.71	-29.87	4.8	-	-	Vertical	PK	NA
1989.798	-44.34	-39.94	4.4	-	-	Vertical	PK	NA
3000	-59.90	-43.63	16.3	-13.0	30.6	Vertical	PK	PASS
3819.5456	-51.87	-51.17	0.7	-13.0	38.2	Vertical	PK	PASS
5729.1042	-58.02	-51.47	6.6	-13.0	38.5	Vertical	PK	PASS
16604.584	-70.49	-44.57	25.9	-13.0	31.6	Vertical	PK	PASS



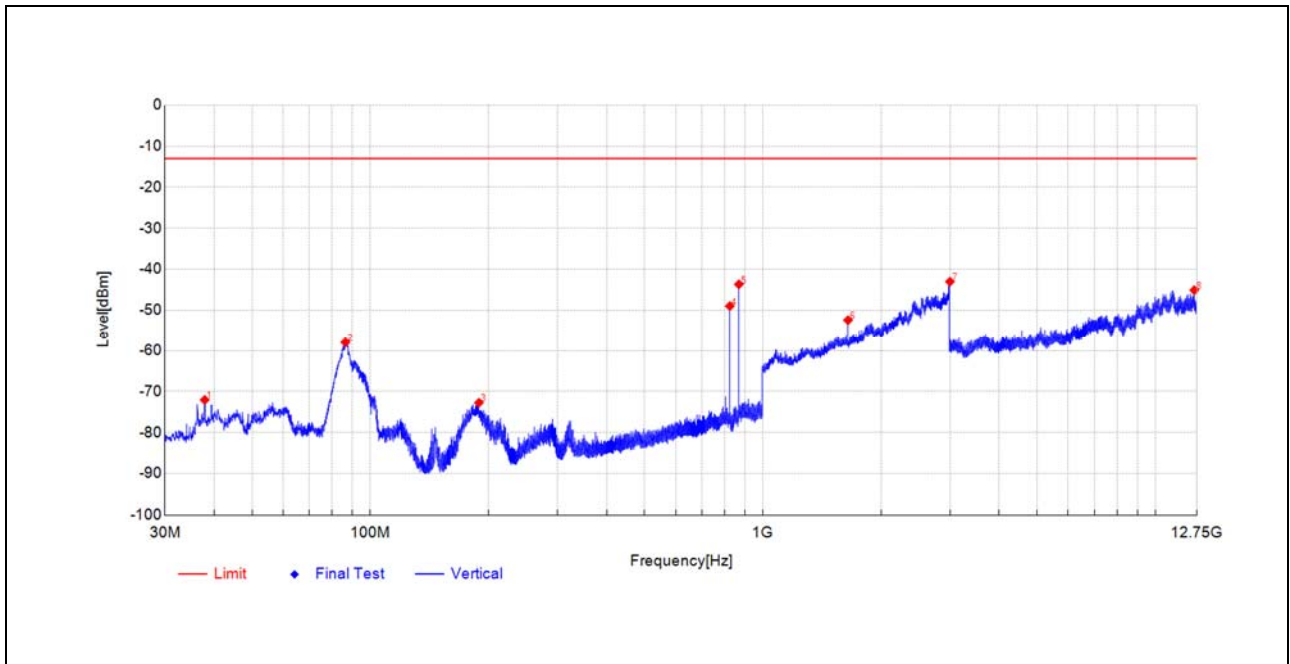
**GSM850(EDGE)**

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3053	-50.35	-65.56	-15.2	-13.0	52.6	Horizontal	PK	PASS
100.862	-42.17	-64.81	-22.6	-13.0	51.8	Horizontal	PK	PASS
804.8747	-59.80	-65.91	-6.1	-13.0	52.9	Horizontal	PK	PASS
824.2757	-36.35	-42.15	-5.8	-	-	Horizontal	PK	NA
869.286	-48.99	-53.85	-4.9	-	-	Horizontal	PK	NA
1648.1296	-48.94	-46.29	2.7	-13.0	33.3	Horizontal	PK	PASS
2472.6945	-54.96	-44.62	10.3	-13.0	31.6	Horizontal	PK	PASS
12482.836	-69.18	-46.15	23.0	-13.0	33.2	Horizontal	PK	PASS

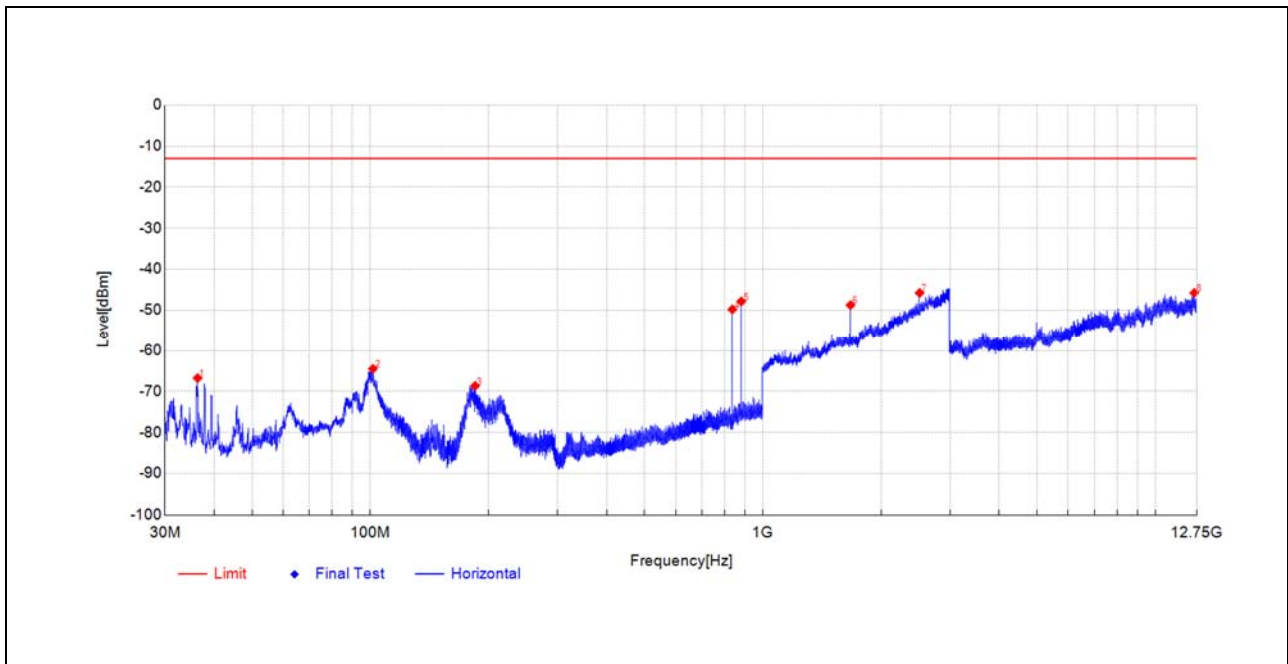




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.8574	-49.49	-72.06	-22.6	-13.0	59.1	Vertical	PK	PASS
86.4083	-35.48	-57.98	-22.5	-13.0	45.0	Vertical	PK	PASS
189.088	-50.84	-72.75	-21.9	-13.0	59.8	Vertical	PK	PASS
824.1302	-43.06	-48.95	-5.9	-	-	Vertical	PK	NA
869.2375	-38.77	-43.64	-4.9	-	-	Vertical	PK	NA
1648.5297	-54.89	-52.41	2.5	-13.0	39.4	Vertical	PK	PASS
2997.9996	-60.02	-42.98	17.0	-13.0	30.0	Vertical	PK	PASS
12568.640	-68.18	-45.07	23.1	-13.0	32.1	Vertical	PK	PASS

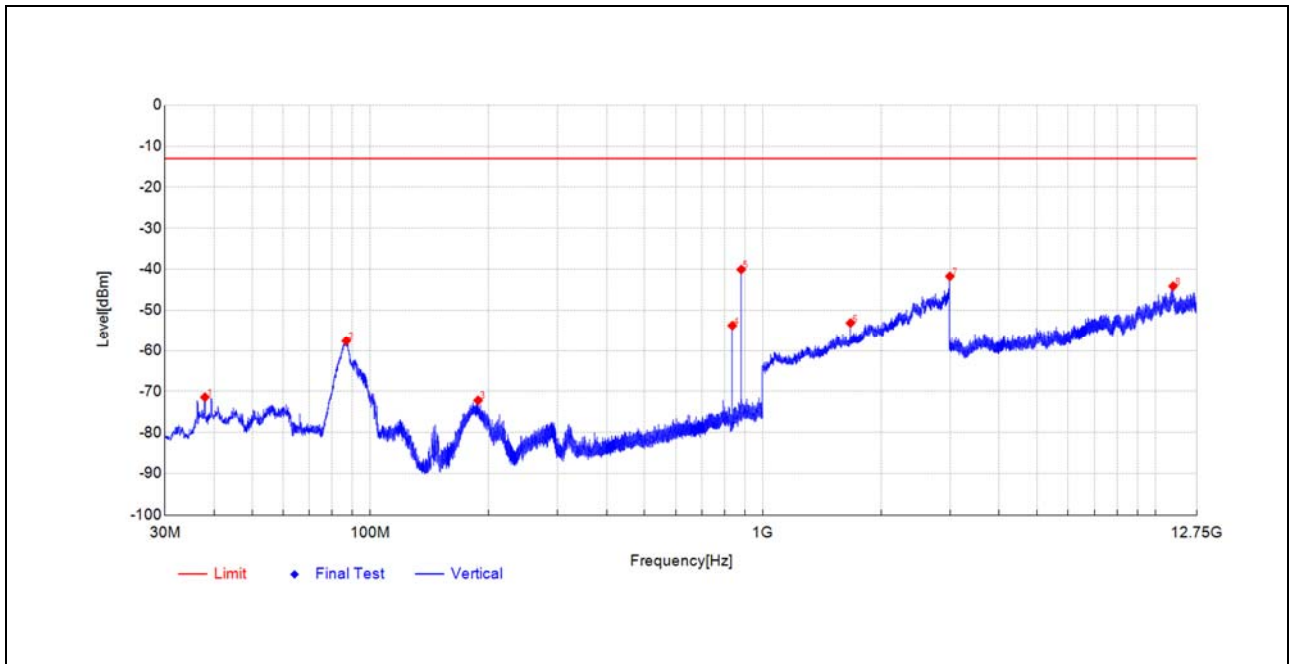


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3053	-51.53	-66.74	-15.2	-13.0	53.7	Horizontal	PK	PASS
101.5411	-41.88	-64.49	-22.6	-13.0	51.5	Horizontal	PK	PASS
184.9167	-48.49	-68.66	-20.2	-13.0	55.7	Horizontal	PK	PASS
836.4498	-44.26	-49.79	-5.5	-	-	Horizontal	PK	NA
881.4601	-43.09	-47.83	-4.7	-	-	Horizontal	PK	NA
1672.5345	-51.22	-48.72	2.5	-13.0	35.7	Horizontal	PK	PASS
2509.5019	-55.83	-45.76	10.1	-13.0	32.8	Horizontal	PK	PASS
12568.640	-69.04	-45.75	23.3	-13.0	32.8	Horizontal	PK	PASS

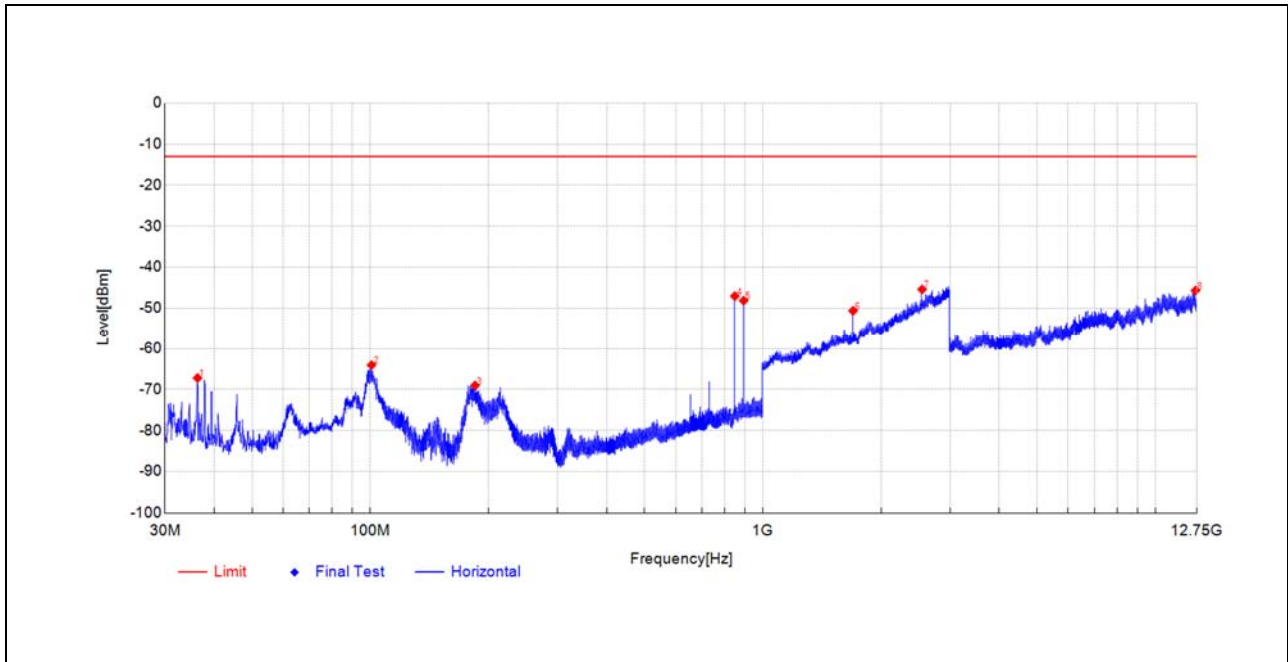




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-48.85	-71.40	-22.6	-13.0	58.4	Vertical	PK	PASS
86.8933	-35.16	-57.61	-22.5	-13.0	44.6	Vertical	PK	PASS
188.1664	-50.22	-72.18	-22.0	-13.0	59.2	Vertical	PK	PASS
836.4013	-47.91	-53.74	-5.8	-	-	Vertical	PK	NA
881.3146	-35.58	-40.05	-4.5	-	-	Vertical	PK	NA
1672.5345	-55.84	-53.10	2.7	-13.0	40.1	Vertical	PK	PASS
2996.3993	-58.57	-41.70	16.9	-13.0	28.7	Vertical	PK	PASS
11098.267	-66.50	-44.10	22.4	-13.0	31.1	Vertical	PK	PASS

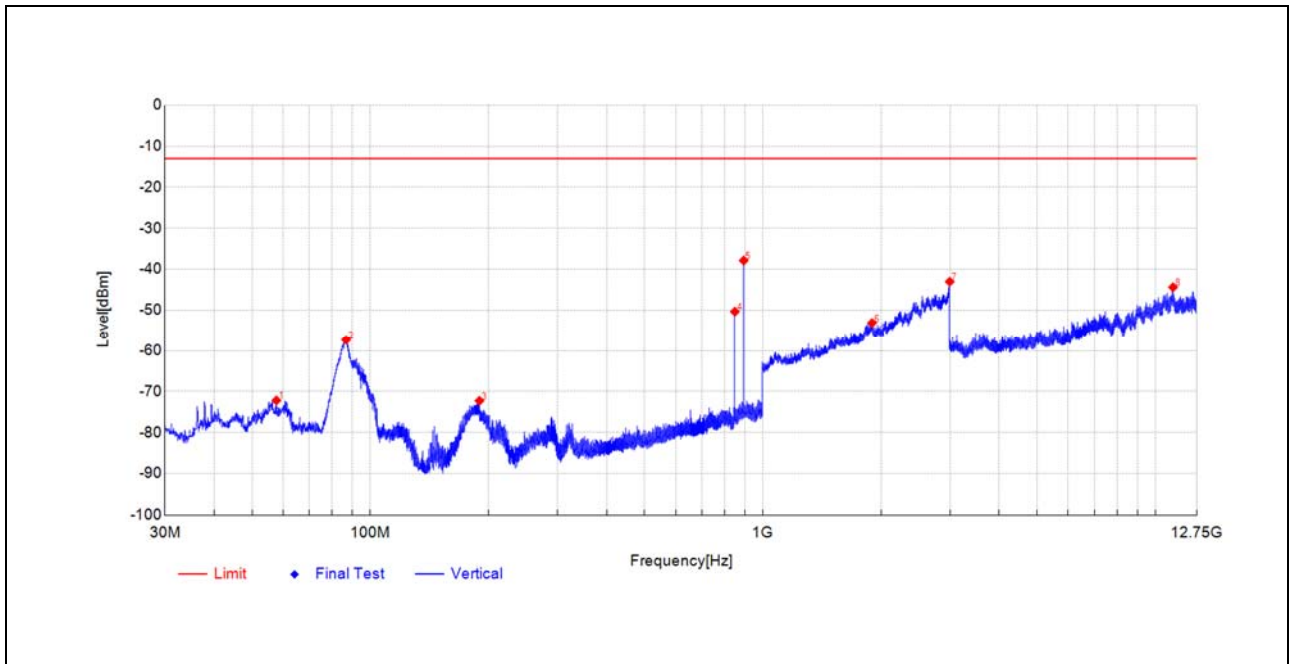


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3053	-52.01	-67.22	-15.2	-13.0	54.2	Horizontal	PK	PASS
100.7165	-41.44	-64.08	-22.6	-13.0	51.1	Horizontal	PK	PASS
184.9167	-48.87	-69.04	-20.2	-13.0	56.0	Horizontal	PK	PASS
848.8664	-41.84	-47.03	-5.2	-	-	Horizontal	PK	NA
893.8767	-43.45	-48.12	-4.7	-	-	Horizontal	PK	NA
1697.7395	-53.55	-50.62	2.9	-13.0	37.6	Horizontal	PK	PASS
2546.3093	-56.41	-45.39	11.0	-13.0	32.4	Horizontal	PK	PASS
12659.320	-68.36	-45.65	22.7	-13.0	32.7	Horizontal	PK	PASS



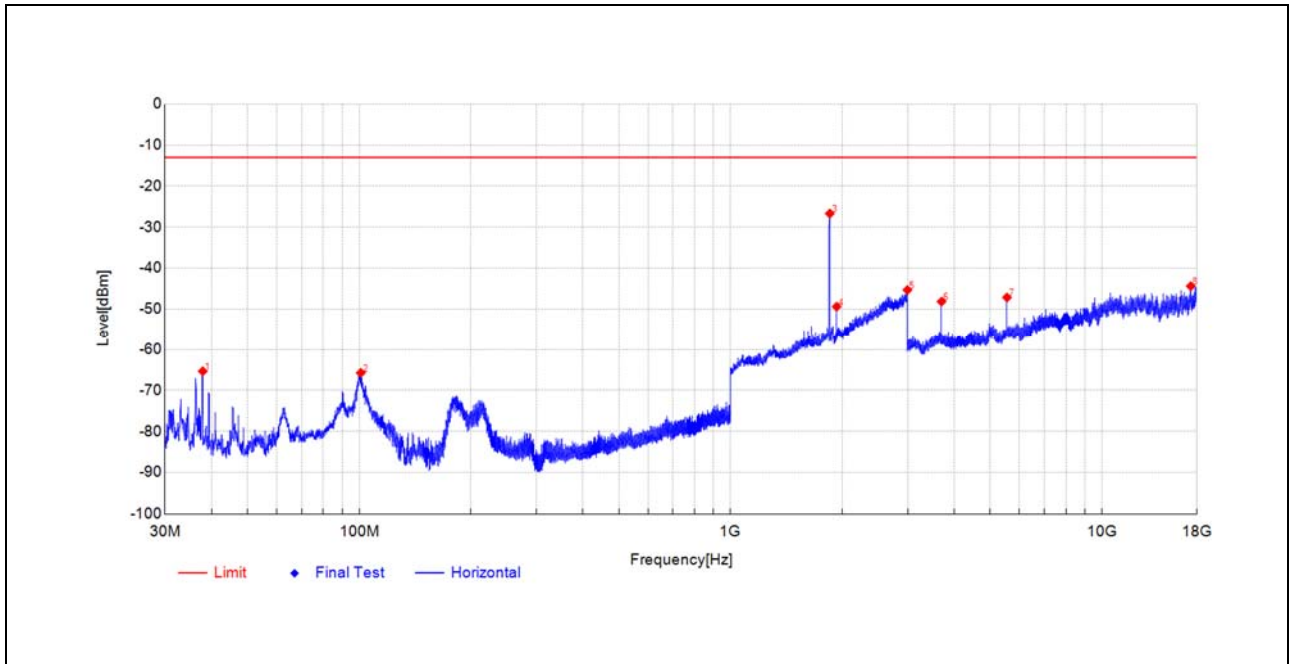


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
57.6464	-54.64	-72.18	-17.5	-13.0	59.2	Vertical	PK	PASS
86.7963	-34.89	-57.35	-22.5	-13.0	44.4	Vertical	PK	PASS
189.67	-50.39	-72.27	-21.9	-13.0	59.3	Vertical	PK	PASS
848.8179	-44.79	-50.32	-5.5	-	-	Vertical	PK	NA
893.8767	-33.41	-37.84	-4.4	-	-	Vertical	PK	NA
1897.3795	-59.00	-53.11	5.9	-13.0	40.1	Vertical	PK	PASS
2993.9988	-59.59	-43.00	16.6	-13.0	30.0	Vertical	PK	PASS
11094.854	-66.75	-44.37	22.4	-13.0	31.4	Vertical	PK	PASS



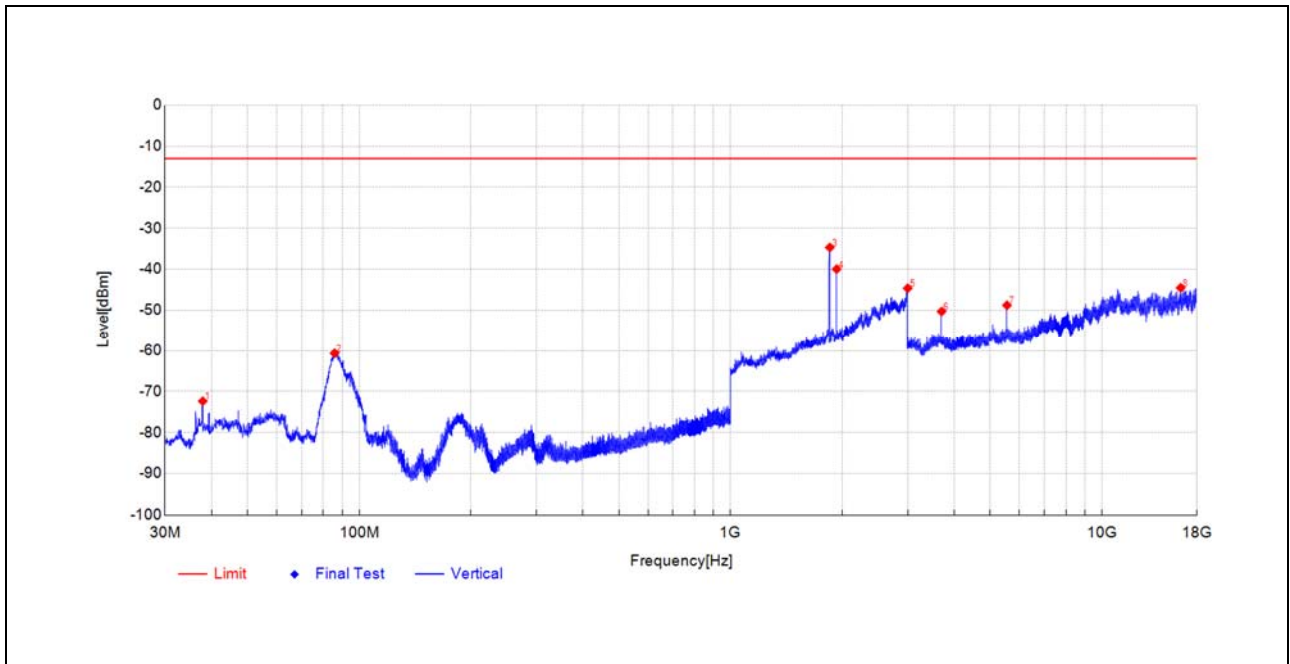
**GSM1900(EDGE)**

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-50.07	-65.34	-15.3	-13.0	52.3	Horizontal	PK	PASS
101.0076	-42.87	-65.73	-22.9	-13.0	52.7	Horizontal	PK	PASS
1850.17	-30.94	-26.66	4.3	-	-	Horizontal	PK	NA
1930.186	-53.28	-49.37	3.9	-	-	Horizontal	PK	NA
2993.5987	-59.16	-45.30	13.9	-13.0	32.3	Horizontal	PK	PASS
3699.9571	-49.90	-48.12	1.8	-13.0	35.1	Horizontal	PK	PASS
5550.3643	-53.79	-47.13	6.7	-13.0	34.1	Horizontal	PK	PASS
17347.653	-68.77	-44.37	24.4	-13.0	31.4	Horizontal	PK	PASS



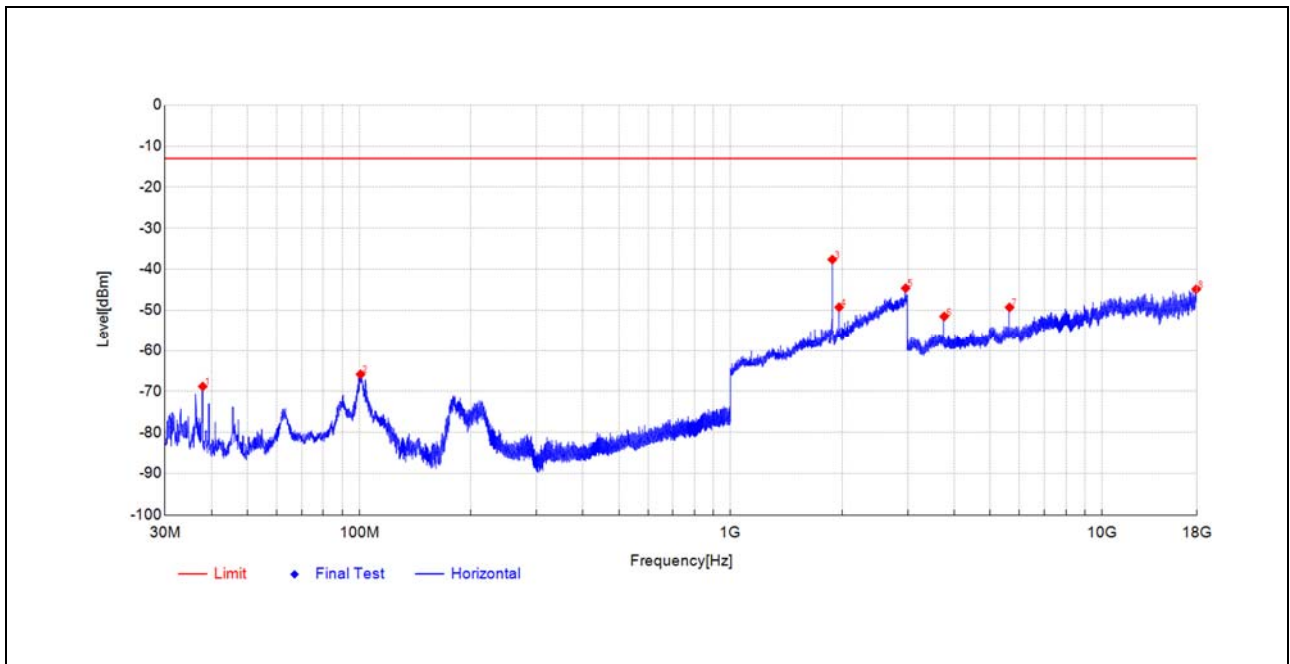


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-49.77	-72.36	-22.6	-13.0	59.4	Vertical	PK	PASS
85.8263	-37.96	-60.67	-22.7	-13.0	47.7	Vertical	PK	PASS
1850.17	-38.99	-34.67	4.3	-	-	Vertical	PK	NA
1930.186	-43.80	-39.94	3.9	-	-	Vertical	PK	NA
2999.5999	-60.84	-44.61	16.2	-13.0	31.6	Vertical	PK	PASS
3700.3858	-52.05	-50.28	1.8	-13.0	37.3	Vertical	PK	PASS
5550.3643	-55.10	-48.75	6.4	-13.0	35.8	Vertical	PK	PASS
16296.891	-70.69	-44.50	26.2	-13.0	31.5	Vertical	PK	PASS



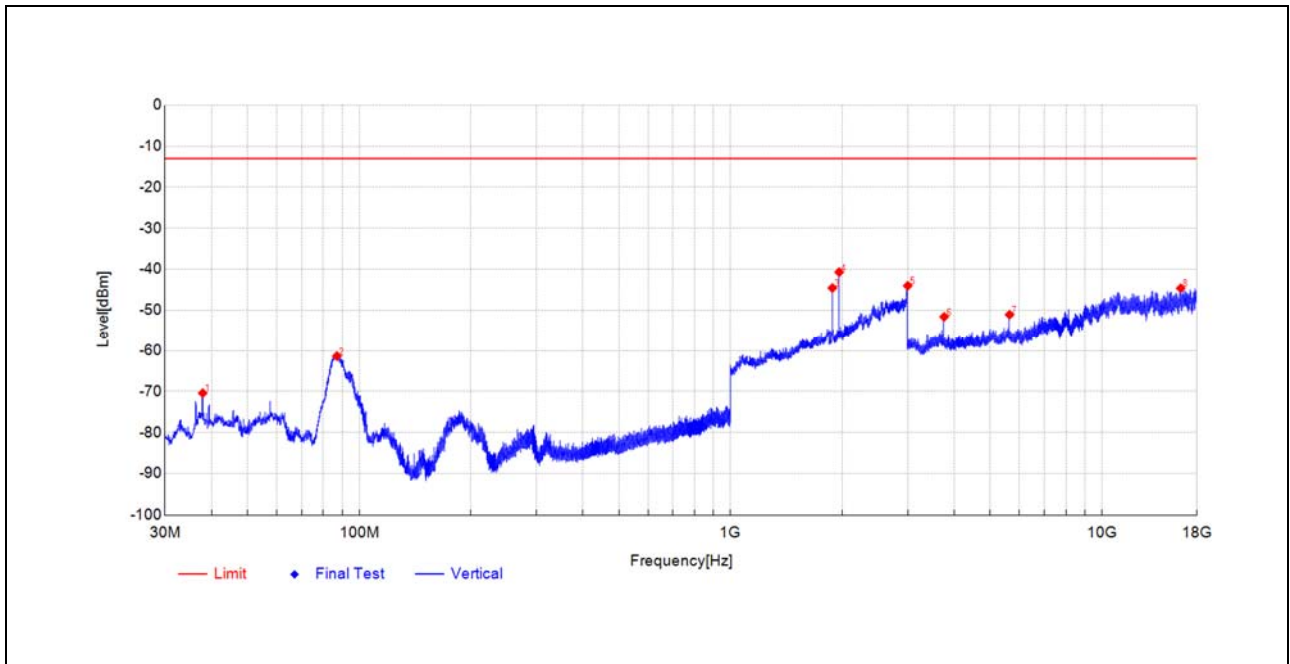


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-53.52	-68.79	-15.3	-13.0	55.8	Horizontal	PK	PASS
100.8135	-42.98	-65.85	-22.9	-13.0	52.9	Horizontal	PK	PASS
1879.3759	-42.90	-37.63	5.3	-	-	Horizontal	PK	NA
1960.192	-53.76	-49.26	4.5	-	-	Horizontal	PK	NA
2960.7922	-58.34	-44.61	13.7	-13.0	31.6	Horizontal	PK	PASS
3759.9657	-52.70	-51.52	1.2	-13.0	38.5	Horizontal	PK	PASS
5639.9486	-56.38	-49.28	7.1	-13.0	36.3	Horizontal	PK	PASS
17949.118	-69.03	-44.87	24.2	-13.0	31.9	Horizontal	PK	PASS



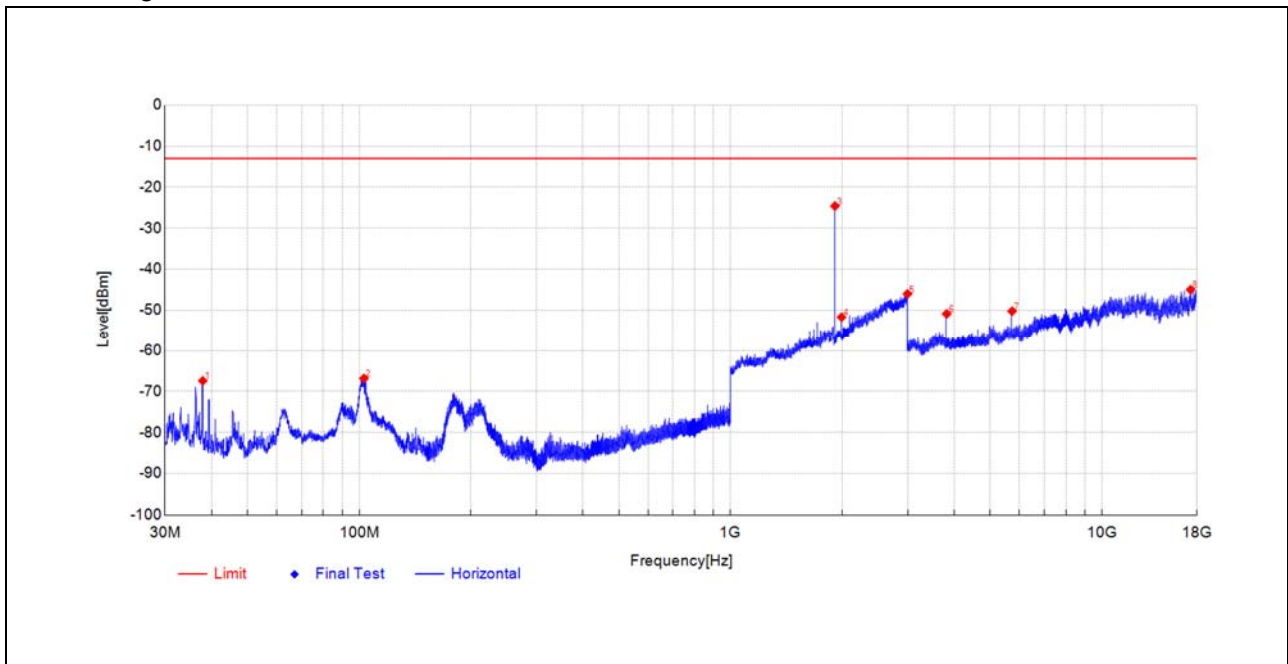


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-47.80	-70.39	-22.6	-13.0	57.4	Vertical	PK	PASS
87.0389	-38.77	-61.37	-22.6	-13.0	48.4	Vertical	PK	PASS
1880.5761	-49.66	-44.55	5.1	-	-	Vertical	PK	NA
1960.192	-44.89	-40.68	4.2	-	-	Vertical	PK	NA
2999.5999	-60.23	-44.00	16.2	-13.0	31.0	Vertical	PK	PASS
3759.9657	-52.66	-51.58	1.1	-13.0	38.6	Vertical	PK	PASS
5639.9486	-57.75	-51.05	6.7	-13.0	38.1	Vertical	PK	PASS
16301.692	-70.75	-44.60	26.2	-13.0	31.6	Vertical	PK	PASS



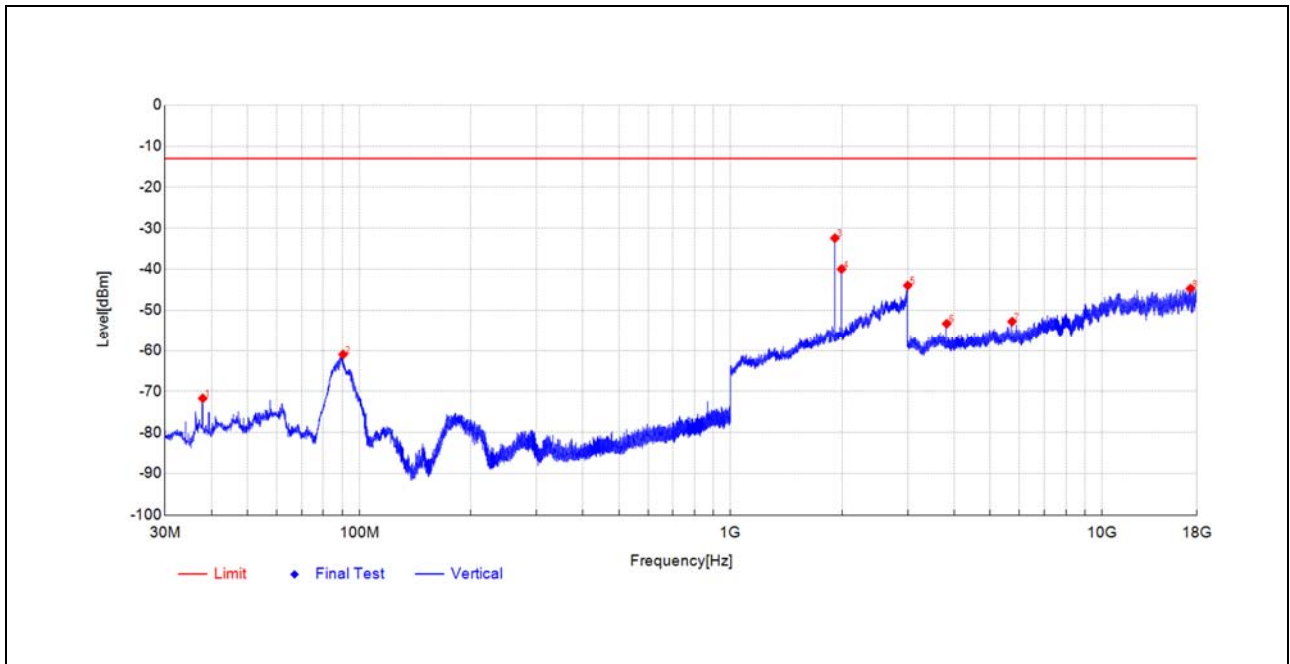


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-52.15	-67.42	-15.3	-13.0	54.4	Horizontal	PK	PASS
102.9476	-44.05	-66.84	-22.8	-13.0	53.8	Horizontal	PK	PASS
1909.782	-28.82	-24.59	4.2	-	-	Horizontal	PK	NA
1989.798	-55.99	-51.67	4.3	-	-	Horizontal	PK	NA
2993.9988	-59.87	-46.00	13.9	-13.0	33.0	Horizontal	PK	PASS
3819.9743	-51.75	-50.87	0.9	-13.0	37.9	Horizontal	PK	PASS
5729.5328	-57.63	-50.20	7.4	-13.0	37.2	Horizontal	PK	PASS
17329.893	-69.23	-44.98	24.3	-13.0	32.0	Horizontal	PK	PASS



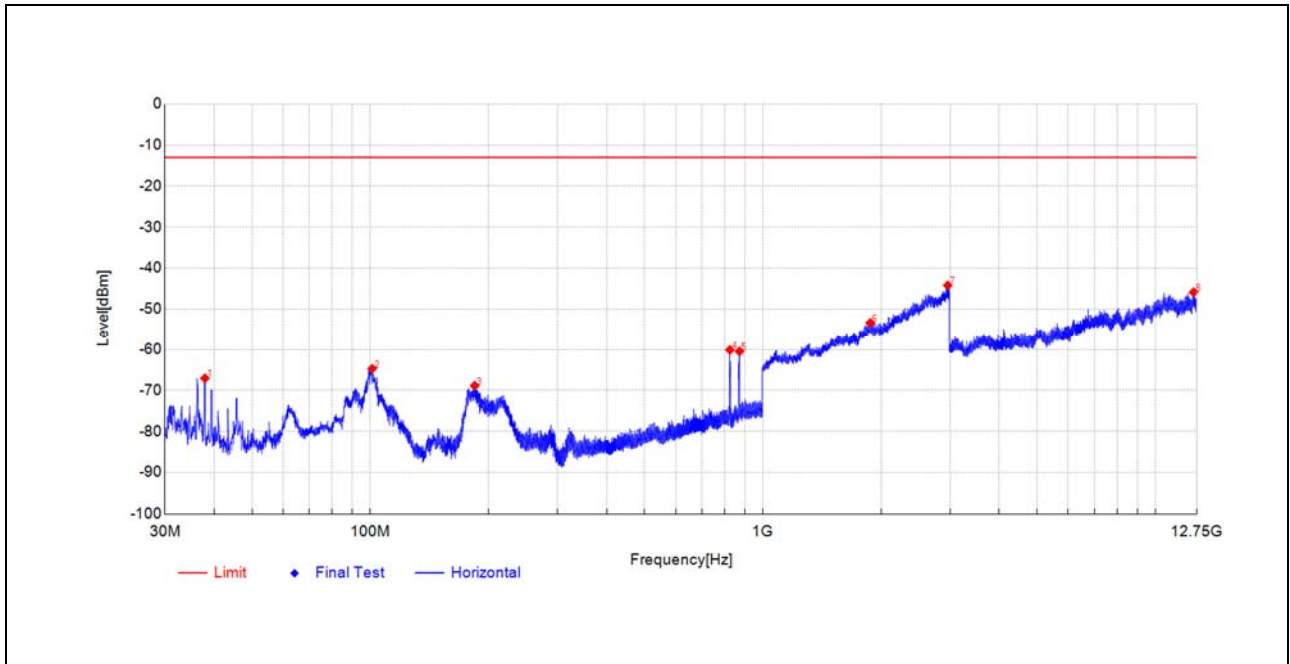


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-49.10	-71.69	-22.6	-13.0	58.7	Vertical	PK	PASS
90.4825	-38.70	-60.98	-22.3	-13.0	48.0	Vertical	PK	PASS
1909.782	-37.25	-32.40	4.9	-	-	Vertical	PK	NA
1989.798	-44.34	-39.94	4.4	-	-	Vertical	PK	NA
2999.1998	-60.10	-43.93	16.2	-13.0	30.9	Vertical	PK	PASS
3819.5456	-53.96	-53.26	0.7	-13.0	40.3	Vertical	PK	PASS
5729.5328	-59.29	-52.74	6.6	-13.0	39.7	Vertical	PK	PASS
17313.092	-69.32	-44.70	24.6	-13.0	31.7	Vertical	PK	PASS



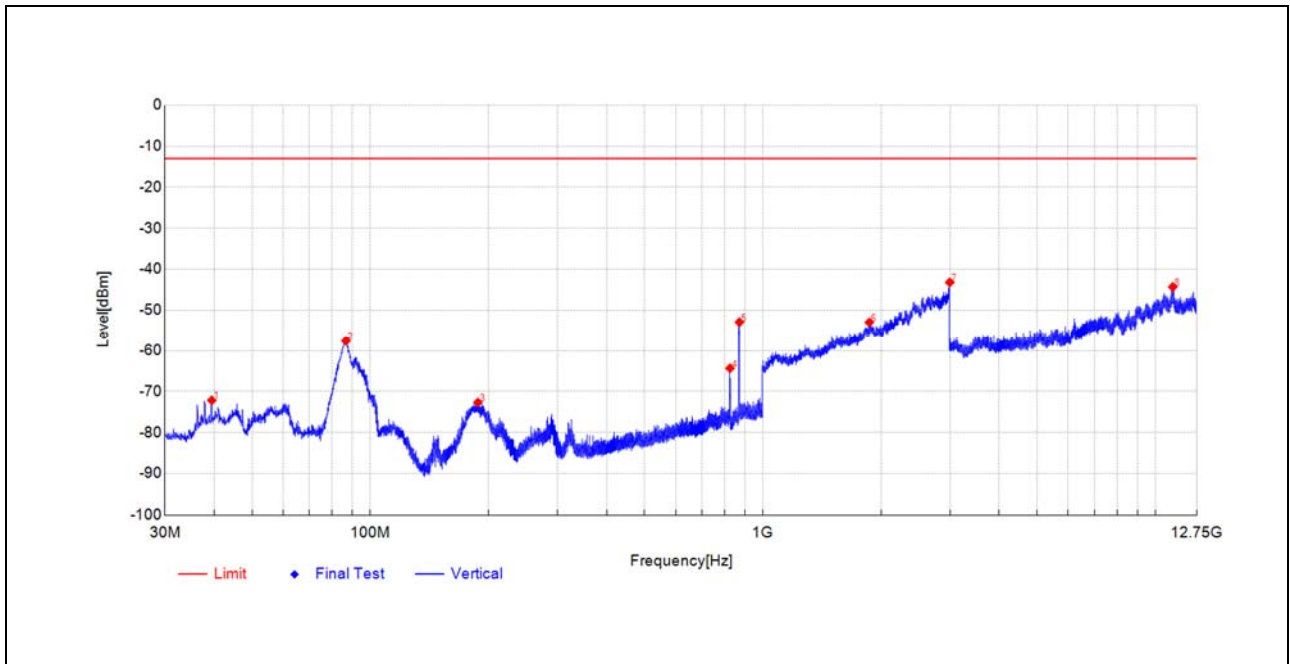
**WCDMA Band V(WCDMA)**

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-51.83	-67.06	-15.2	-13.0	54.1	Horizontal	PK	PASS
101.0561	-42.10	-64.73	-22.6	-13.0	51.7	Horizontal	PK	PASS
184.4802	-48.62	-68.87	-20.3	-13.0	55.9	Horizontal	PK	PASS
824.8092	-54.33	-60.12	-5.8	-	-	Horizontal	PK	NA
872.0991	-55.65	-60.48	-4.8	-	-	Horizontal	PK	NA
1878.1756	-59.35	-53.34	6.0	-13.0	40.3	Horizontal	PK	PASS
2958.3917	-59.29	-44.19	15.1	-13.0	31.2	Horizontal	PK	PASS
12522.326	-69.22	-45.84	23.4	-13.0	32.8	Horizontal	PK	PASS



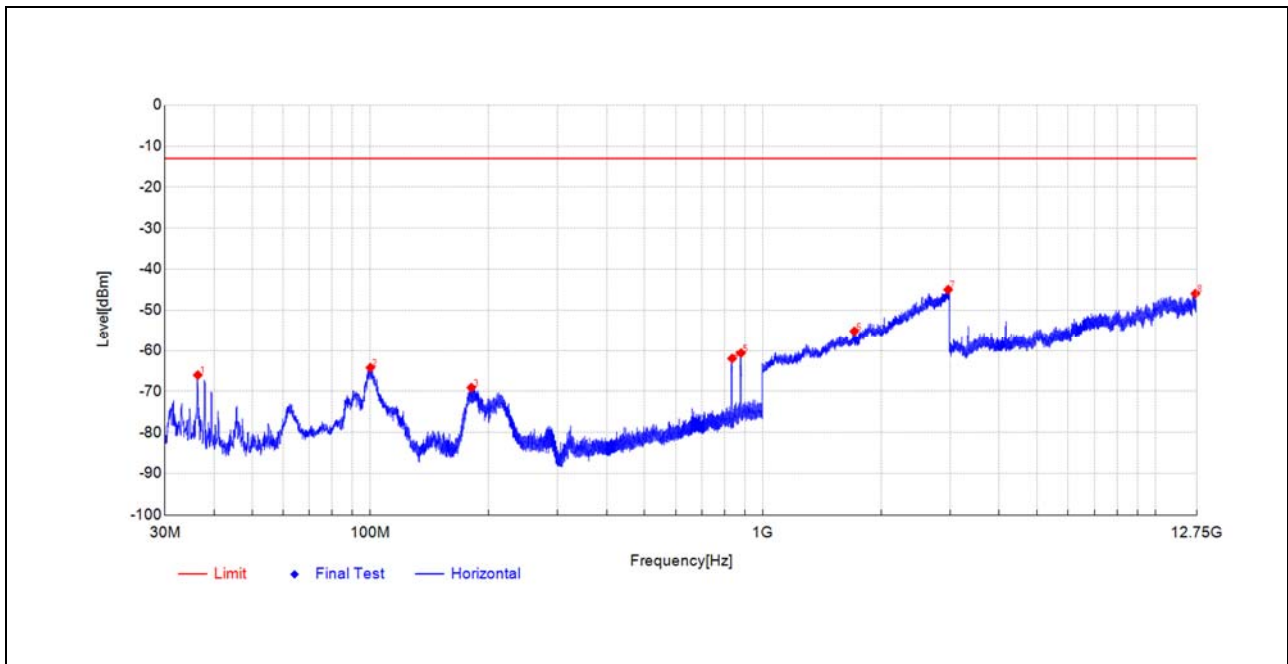


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
39.458	-50.13	-72.16	-22.0	-13.0	59.2	Vertical	PK	PASS
86.6993	-35.15	-57.61	-22.5	-13.0	44.6	Vertical	PK	PASS
187.9724	-50.72	-72.70	-22.0	-13.0	59.7	Vertical	PK	PASS
825.1973	-58.43	-64.33	-5.9	-	-	Vertical	PK	NA
871.8566	-48.12	-52.89	-4.8	-	-	Vertical	PK	NA
1868.1736	-58.37	-52.93	5.4	-13.0	39.9	Vertical	PK	PASS
2994.799	-59.85	-43.17	16.7	-13.0	30.2	Vertical	PK	PASS
11080.716	-66.61	-44.28	22.3	-13.0	31.3	Vertical	PK	PASS



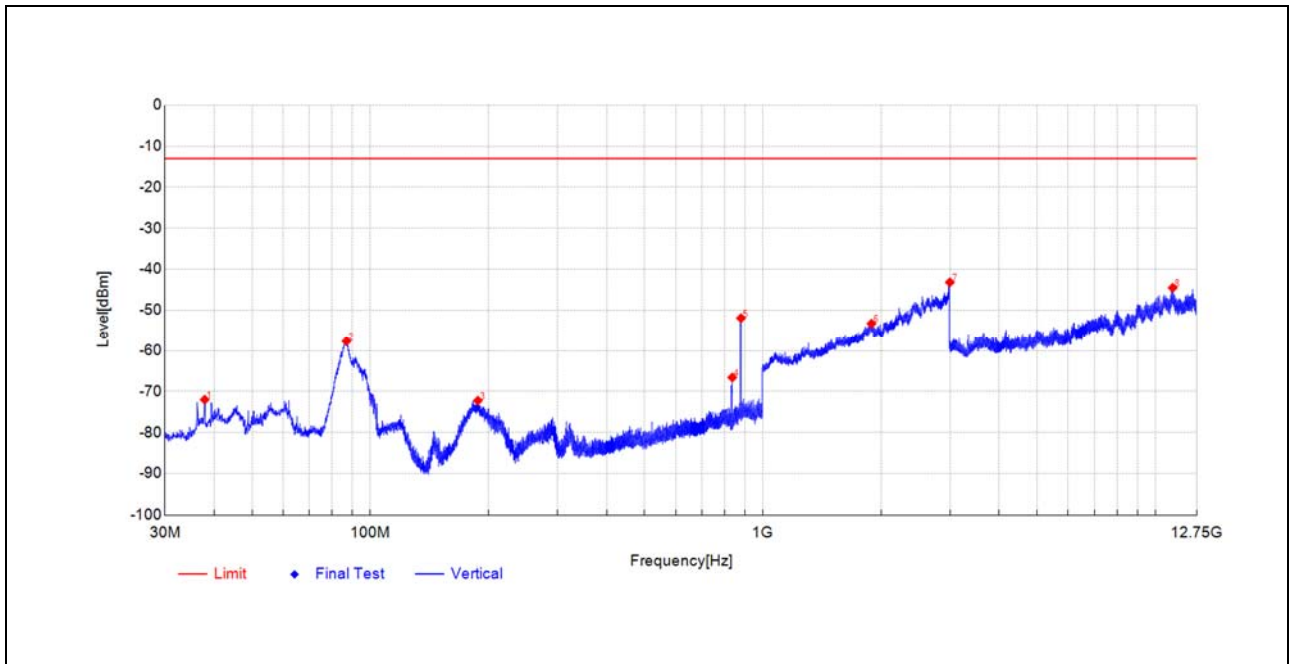


Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3538	-50.82	-66.03	-15.2	-13.0	53.0	Horizontal	PK	PASS
100.0375	-41.52	-64.19	-22.7	-13.0	51.2	Horizontal	PK	PASS
180.891	-48.22	-69.07	-20.9	-13.0	56.1	Horizontal	PK	PASS
835.4313	-56.40	-61.96	-5.6	-	-	Horizontal	PK	NA
880.3445	-55.90	-60.65	-4.8	-	-	Horizontal	PK	NA
1710.5421	-58.17	-55.14	3.0	-13.0	42.1	Horizontal	PK	PASS
2965.9932	-59.93	-44.97	15.0	-13.0	32.0	Horizontal	PK	PASS
12648.594	-68.74	-45.94	22.8	-13.0	32.9	Horizontal	PK	PASS

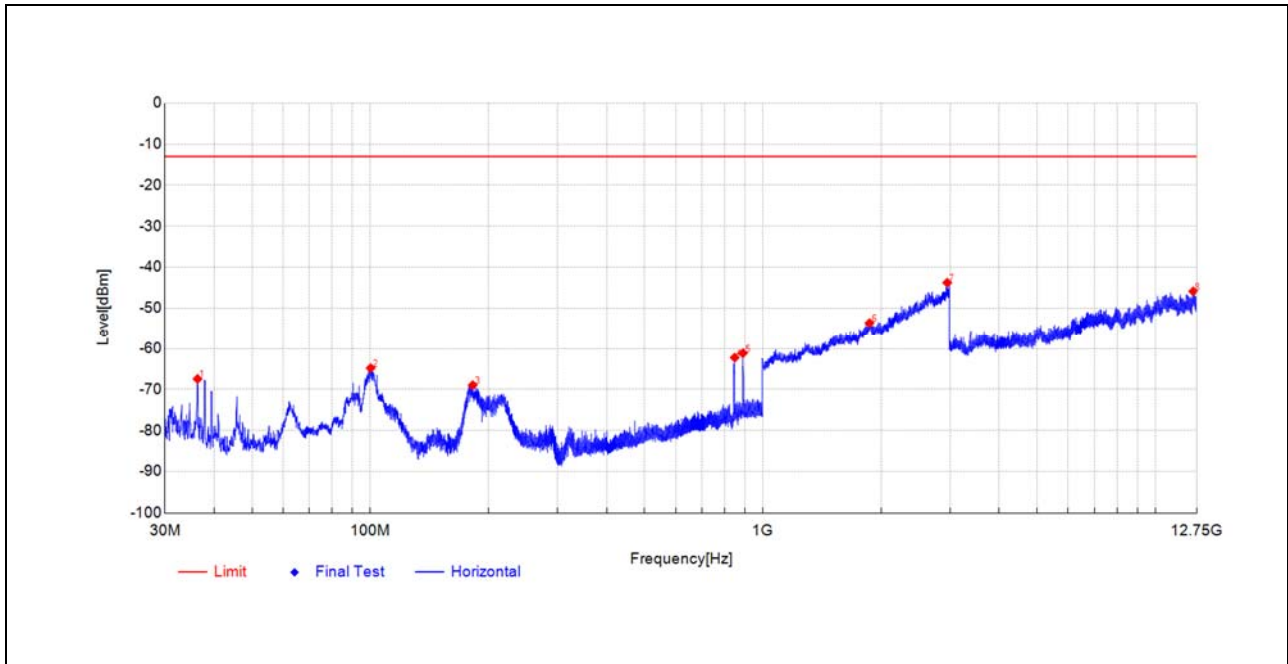




Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.8574	-49.43	-72.00	-22.6	-13.0	59.0	Vertical	PK	PASS
86.9904	-35.25	-57.69	-22.4	-13.0	44.7	Vertical	PK	PASS
187.8754	-50.26	-72.24	-22.0	-13.0	59.2	Vertical	PK	PASS
836.0618	-60.74	-66.58	-5.8	-	-	Vertical	PK	NA
880.0535	-47.43	-51.91	-4.5	-	-	Vertical	PK	NA
1891.7784	-59.15	-53.25	5.9	-13.0	40.3	Vertical	PK	PASS
2996.3993	-60.02	-43.15	16.9	-13.0	30.2	Vertical	PK	PASS
11073.403	-66.80	-44.50	22.3	-13.0	31.5	Vertical	PK	PASS

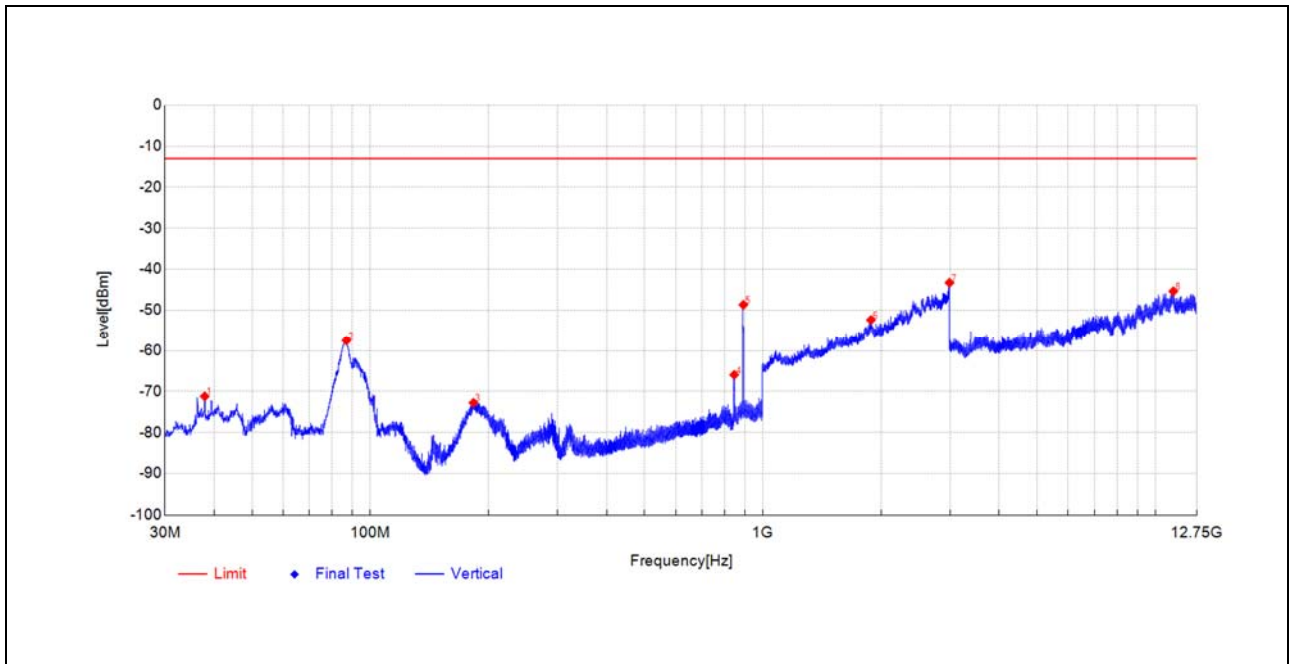


Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3053	-52.23	-67.44	-15.2	-13.0	54.4	Horizontal	PK	PASS
100.2315	-42.13	-64.80	-22.7	-13.0	51.8	Horizontal	PK	PASS
182.3946	-48.37	-68.97	-20.6	-13.0	56.0	Horizontal	PK	PASS
847.9934	-57.02	-62.23	-5.2	-	-	Horizontal	PK	NA
889.948	-56.46	-61.16	-4.7	-	-	Horizontal	PK	NA
1870.174	-59.29	-53.61	5.7	-13.0	40.6	Horizontal	PK	PASS
2950.7902	-58.68	-43.75	14.9	-13.0	30.8	Horizontal	PK	PASS
12488.686	-69.03	-45.86	23.2	-13.0	32.9	Horizontal	PK	PASS





Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.8574	-48.62	-71.19	-22.6	-13.0	58.2	Vertical	PK	PASS
86.9418	-35.07	-57.52	-22.5	-13.0	44.5	Vertical	PK	PASS
183.1222	-50.51	-72.76	-22.3	-13.0	59.8	Vertical	PK	PASS
845.5683	-60.32	-65.93	-5.6	-	-	Vertical	PK	NA
892.4216	-44.21	-48.65	-4.4	-	-	Vertical	PK	NA
1886.1772	-58.25	-52.36	5.9	-13.0	39.4	Vertical	PK	PASS
2990.3981	-59.45	-43.25	16.2	-13.0	30.3	Vertical	PK	PASS
11115.330	-67.55	-45.36	22.2	-13.0	32.4	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 C63.10-2013 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
JS36-RSE	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	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
				2025.06.20	2026.06.19
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
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2024.09.11	2025.09.10
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier	61171/61172	S020180L32	LUCIX CORP.	2025.05.13	2026.05.12





REPORT No.: SZ25060339W06

(2GHz-18GHz)		03			
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118- 40C-S	Decentest	2025.05.13	2026.05.12
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
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29

_____ END OF REPORT _____

