



REPORT No.: SZ21110262W06

TEST REPORT

APPLICANT : WIKO SAS

PRODUCT NAME : Smart phone

MODEL NAME : W-P861-01

BRAND NAME : WIKO

FCC ID : 2AM86W-P861-01

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

RECEIPT DATE : 2021-12-07

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Change History		
Version	Date	Reason for change
1.0	2022-01-18	First edition





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	WIKO SAS
Applicant Address:	1, rue Capitaine Dessemond – 13007 Marseille – France.
Manufacturer:	WIKO SAS
Manufacturer Address:	1, rue Capitaine Dessemond – 13007 Marseille – France.

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart phone	
Sample No.:	20#	
Hardware Version:	V1.0	
Software Version:	W-P861-V01	
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:	Fixed Internal Antenna	
Antenna Gain:	Top Antenna	
	GSM 850:	-2.2dBi
	GSM1900:	-5.0dBi
	WCDMA Band V:	-2.2dBi
	WCDMA Band IV:	-5.2dBi
	WCDMA Band II:	-5.2dBi
	Bottom Antenna	
	GSM 850:	-4.5dBi
	GSM1900:	-2.6dBi
	WCDMA Band V:	-4.2dBi
	WCDMA Band IV:	-2.6dBi
	WCDMA Band II:	-2.2dBi
Accessory Information:	Battery 1	
	Brand Name:	N/A
	Model No.:	HB446589EFW
	Serial No.:	N/A
	Capacity:	3900mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	SCUD(FUJIAN) ELECTRONICS CO.,LTD.
Accessory Information:	Battery 2	
	Brand Name:	N/A
	Model No.:	HB446589EFW
	Serial No.:	N/A
	Capacity:	3900mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Sunwoda Electronic Co., Ltd.



Accessory Information:	AC Adapter 1	
	Brand Name:	WIKO
	Model No.:	SU2A40
	Serial No.:	N/A
	Rated Output:	5.0V=20A, 9.0V=2.0A, 10.0V=4.0A
	Rated Input:	100-240V~50/60Hz, 1.2A
	Manufacturer:	Luxshare Precision Industry Co., Ltd.
	AC Adapter 2	
	Brand Name:	WIKO
	Model No.:	SU1A40
	Serial No.:	N/A
	Rated Output:	5.0V=20A, 9.0V=2.0A, 10.0V=4.0A
	Rated Input:	100-240V~50/60Hz, 1.2A
	Manufacturer:	Luxshare Precision Industry Co., Ltd.
	USB Cable	
	Model No.:	L99UC138-CS-H
	Manufacturer:	Luxshare Precision Industry Co., Ltd.

Note 1: The EUT supports top antenna and bottom antenna. For test item Conducted RF Output Power, Radiated Power and Radiated Out of Band Emissions we recorded the test result of two antennas separately, for other test items both of the two antennas were tested separately, we only recorded the worst test results (Top Antenna) in this report.

Note 2: 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 3: 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 4: 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 5: 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 6: 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 7: 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 8: 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
	Top Antenna	Bottom Antenna	
GSM850(GSM)	0.697	0.416	250KGXW
GSM850(EDGE)	0.191	0.119	258KG7W
GSM1900(GSM)	0.351	0.574	247KGXW
GSM1900(EDGE)	0.126	0.252	256KG7W
WCDMA Band V	0.102	0.068	4M18F9W
WCDMA Band IV	0.069	0.126	4M20F9W
WCDMA Band II	0.072	0.136	4M19F9W



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	Method determination/ Remark
1	2.1046	Conducted RF Output Power	Jan 13, 2022	Yu Xiaoming	PASS	No deviation
2	24.232(d)	Peak -Average Ratio	Dec 17, 2021	Li Huaijie	PASS	No deviation
3	2.1049	Occupied Bandwidth	Dec 16, 2021	Li Huaijie	PASS	No deviation
4	2.1055, 22.355, 24.235, 27.54	Frequency Stability	Dec 22, 2021	Li Huaijie	PASS	No deviation
5	2.1051, 22.917(a), 24.238(a), 27.53(h)	Conducted Out of Band Emissions	Dec 16, 2021	Li Huaijie	PASS	No deviation
6	2.1051, 22.917(a), 24.238(a), 27.53(h)	Band Edge	Dec 16, 2021	Li Huaijie	PASS	No deviation
7	22.913(a), 24.232(c) 27.50(d)	Transmitter Radiated Power (EIPR/E.R.P.)	Jan 13, 2022	Li Huaijie	PASS	No deviation
8	2.1051,	Radiated Out	Dec 18&19,	Su Zhan	PASS	No deviation





	22.917(a), 24.238(a), 27.53(h)	of Band Emissions	2021			
Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03r01 and ANSI/TIA-603-E-2016. Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB. Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table. Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.						

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

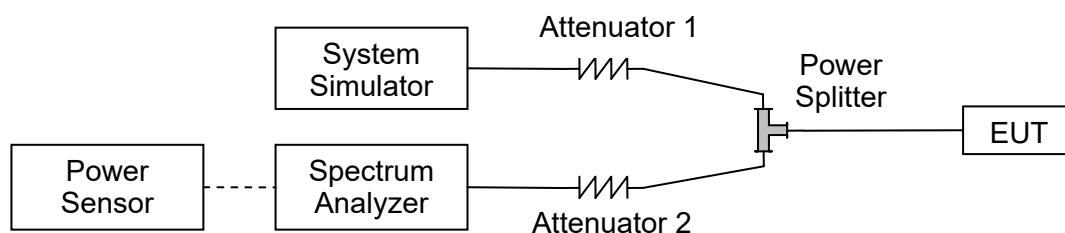
2.1. Conducted RF Output Power

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

Top Antenna

GSM850	Average Power (dBm)		
TX Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM 1 Tx slot	32.75	32.78	32.65
GPRS 1 Tx slot	32.69	32.68	32.52
GPRS 2 Tx slots	30.78	30.83	30.72
GPRS 3 Tx slots	28.42	28.62	28.54
GPRS 4 Tx slots	27.71	27.70	27.63
EDGE 1 Tx slot	27.15	27.04	26.96
EDGE 2 Tx slots	24.71	24.60	24.49
EDGE 3 Tx slots	22.68	22.59	22.63
EDGE 4 Tx slots	21.04	21.12	21.23

GSM1900	Average Power (dBm)		
TX Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM 1 Tx slot	30.40	30.36	30.38
GPRS 1 Tx slot	30.38	30.45	30.43
GPRS 2 Tx slots	27.73	27.81	27.78
GPRS 3 Tx slots	25.68	25.99	25.79
GPRS 4 Tx slots	24.68	24.76	24.68
EDGE 1 Tx slot	25.99	26.01	25.94
EDGE 2 Tx slots	23.89	23.76	23.58
EDGE 3 Tx slots	22.58	22.71	22.64
EDGE 4 Tx slots	20.79	20.58	20.56





WCDMA Band V	Average Power (dBm)		
TX Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2Kbps	24.34	24.43	24.42
HSDPA Subtest-1	23.70	23.74	23.76
HSDPA Subtest-2	23.71	23.67	23.75
HSDPA Subtest-3	23.22	23.21	23.24
HSDPA Subtest-4	23.17	23.17	23.25
HSUPA Subtest-1	23.22	23.19	23.24
HSUPA Subtest-2	23.77	23.67	23.80
HSUPA Subtest-3	22.77	22.74	22.78
HSUPA Subtest-4	23.76	23.76	23.83
HSUPA Subtest-5	22.78	22.75	22.72
HSPA+ (16QAM) Subtest-1	22.83	22.73	22.76

WCDMA Band IV	Average Power (dBm)		
TX Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2Kbps	23.48	23.61	23.57
HSDPA Subtest-1	22.40	22.43	22.38
HSDPA Subtest-2	22.44	22.41	22.39
HSDPA Subtest-3	21.91	21.88	21.91
HSDPA Subtest-4	21.91	21.86	21.87
HSUPA Subtest-1	21.91	21.84	21.81
HSUPA Subtest-2	22.35	22.31	22.34
HSUPA Subtest-3	21.39	21.37	21.36
HSUPA Subtest-4	22.37	22.39	22.31
HSUPA Subtest-5	21.37	21.34	21.36
HSPA+ (16QAM) Subtest-1	21.38	21.34	21.34





WCDMA Band II	Average Power (dBm)		
TX Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2Kbps	23.67	23.75	23.60
HSDPA Subtest-1	22.48	22.42	22.37
HSDPA Subtest-2	22.50	22.45	22.31
HSDPA Subtest-3	22.03	21.92	21.78
HSDPA Subtest-4	21.97	21.93	21.79
HSUPA Subtest-1	21.94	21.91	21.77
HSUPA Subtest-2	22.51	22.39	22.24
HSUPA Subtest-3	21.51	21.39	21.27
HSUPA Subtest-4	22.50	22.34	22.30
HSUPA Subtest-5	21.43	21.36	21.20
HSPA+ (16QAM) Subtest-1	21.48	21.39	21.34



**Bottom Antenna**

GSM850	Average Power (dBm)		
TX Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM 1 Tx slot	32.78	32.76	32.69
GPRS 1 Tx slot	32.80	32.84	32.70
GPRS 2 Tx slots	30.81	30.81	30.76
GPRS 3 Tx slots	28.85	28.88	28.81
GPRS 4 Tx slots	27.74	27.68	27.67
EDGE 1 Tx slot	27.38	27.22	27.40
EDGE 2 Tx slots	24.74	24.38	24.53
EDGE 3 Tx slots	22.71	22.57	22.53
EDGE 4 Tx slots	21.07	21.00	20.95

GSM1900	Average Power (dBm)		
TX Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM 1 Tx slot	30.10	30.16	30.18
GPRS 1 Tx slot	30.12	30.19	30.17
GPRS 2 Tx slots	27.75	27.81	27.78
GPRS 3 Tx slots	26.02	25.96	26.02
GPRS 4 Tx slots	24.70	24.73	24.71
EDGE 1 Tx slot	26.61	26.36	26.32
EDGE 2 Tx slots	24.11	23.93	23.81
EDGE 3 Tx slots	22.26	22.08	22.03
EDGE 4 Tx slots	20.65	20.71	20.69





WCDMA Band V	Average Power (dBm)		
TX Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2Kbps	24.63	24.65	24.61
HSDPA Subtest-1	23.57	23.53	23.67
HSDPA Subtest-2	23.58	23.55	23.60
HSDPA Subtest-3	23.15	23.06	23.07
HSDPA Subtest-4	23.08	23.09	23.12
HSUPA Subtest-1	23.09	22.99	23.02
HSUPA Subtest-2	23.59	23.56	23.55
HSUPA Subtest-3	22.62	22.57	22.57
HSUPA Subtest-4	23.54	23.50	23.60
HSUPA Subtest-5	22.58	22.56	22.54
HSPA+ (16QAM) Subtest-1	22.66	22.55	22.44

WCDMA Band IV	Average Power (dBm)		
TX Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2Kbps	23.48	23.60	23.55
HSDPA Subtest-1	22.52	22.52	22.51
HSDPA Subtest-2	22.53	22.44	22.40
HSDPA Subtest-3	22.03	21.96	21.94
HSDPA Subtest-4	22.01	21.94	21.93
HSUPA Subtest-1	22.00	21.92	21.93
HSUPA Subtest-2	22.52	22.50	22.47
HSUPA Subtest-3	21.54	21.46	21.48
HSUPA Subtest-4	22.50	22.52	22.44
HSUPA Subtest-5	21.50	21.52	21.50
HSPA+ (16QAM) Subtest-1	21.48	21.42	21.42





WCDMA Band II	Average Power (dBm)		
TX Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2Kbps	23.49	23.54	23.50
HSDPA Subtest-1	22.56	22.53	22.50
HSDPA Subtest-2	22.48	22.52	22.50
HSDPA Subtest-3	22.01	22.07	22.01
HSDPA Subtest-4	22.04	22.04	21.97
HSUPA Subtest-1	22.01	22.03	21.98
HSUPA Subtest-2	22.50	22.57	22.50
HSUPA Subtest-3	21.55	21.54	21.55
HSUPA Subtest-4	22.49	22.53	22.52
HSUPA Subtest-5	21.54	21.55	21.52
HSPA+ (16QAM) Subtest-1	21.48	21.54	21.43



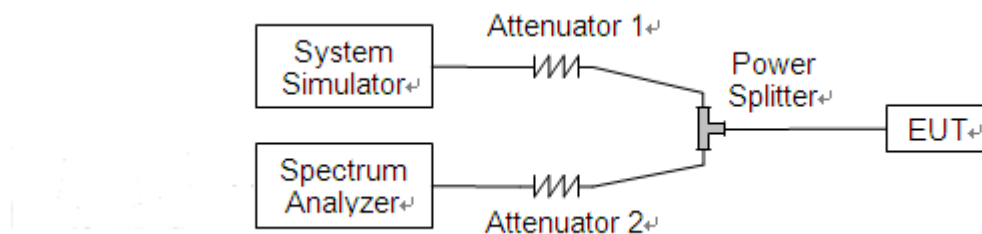
2.2. Peak to Average Ratio

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:

- Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
- Set EUT in maximum output power, and triggered the bust signal.
- Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.

2. For UMTS operating mode:

- Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 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	0.018	13	PASS
	661	1880.0	0.016		PASS
	810	1909.8	0.003		PASS
EDGE	512	1850.2	0.103		PASS
	661	1880.0	0.068		PASS
	810	1909.8	0.079		PASS

WCDMA Band IV					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
WCDMA	1312	1712.4	2.32	13	PASS
	1413	1732.6	2.20		PASS
	1513	1752.6	2.39		PASS

WCDMA Band II					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
WCDMA	9262	1852.4	2.53	13	PASS
	9400	1880.0	2.76		PASS
	9538	1907.6	2.43		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**

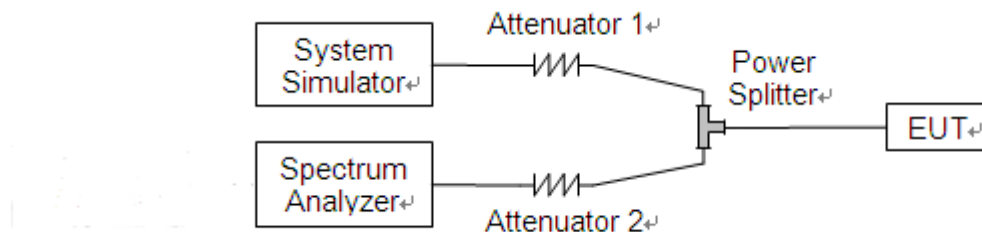
2.3. Occupied Bandwidth

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	246.00	311.60
	189	836.4	249.98	317.40
	251	848.8	243.09	320.30
EDGE	128	824.2	249.74	320.30
	189	836.4	250.02	313.00
	251	848.8	257.54	309.80

GSM1900				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	512	1850.2	246.92	306.10
	661	1880.0	245.89	311.50
	810	1909.8	247.25	314.00
EDGE	512	1850.2	251.69	308.00
	661	1880.0	246.76	313.40
	810	1909.8	255.76	324.60

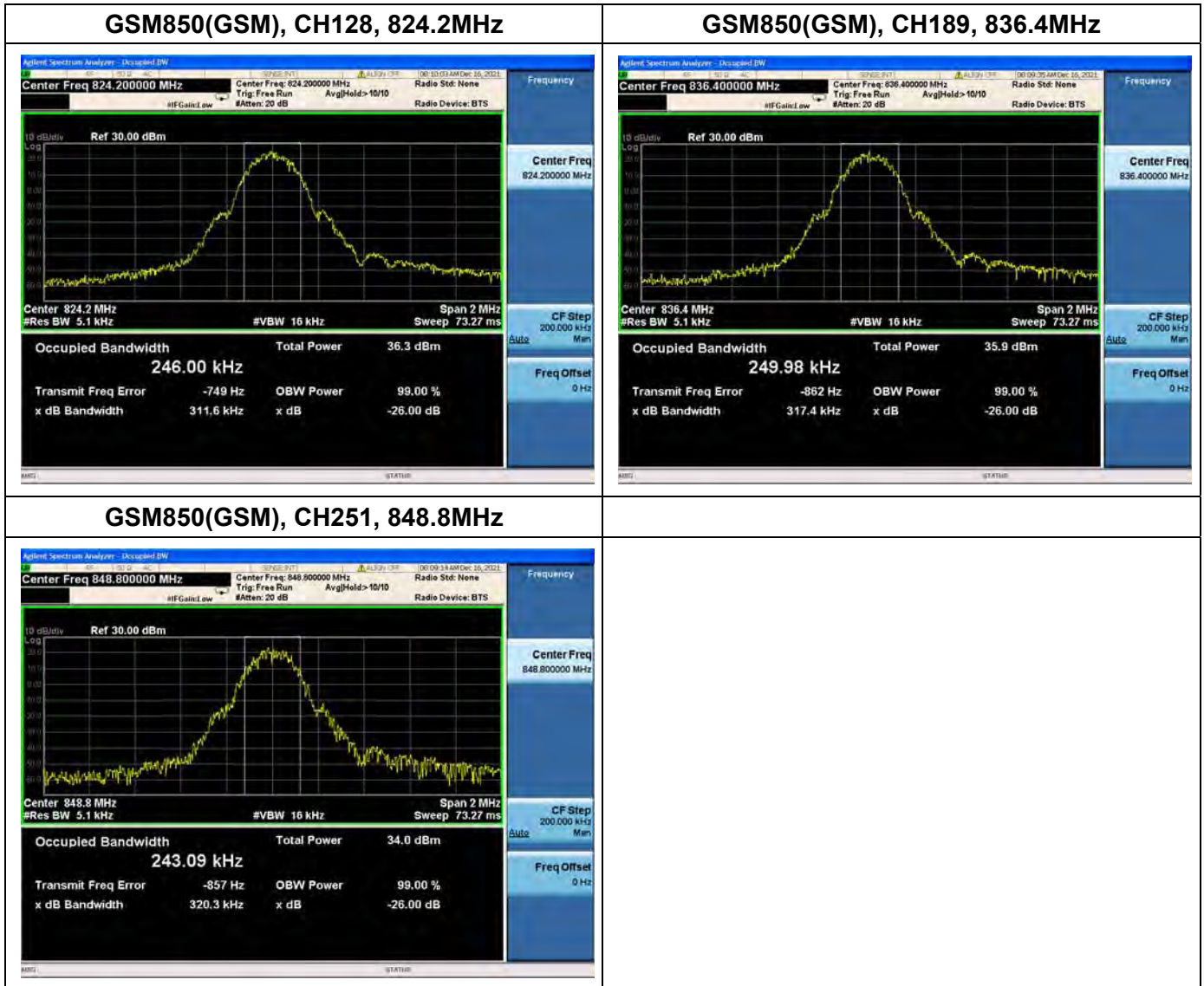
WCDMA Band V				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	4132	826.4	4.18	4.73
	4182	836.4	4.17	4.72
	4233	846.6	4.17	4.73

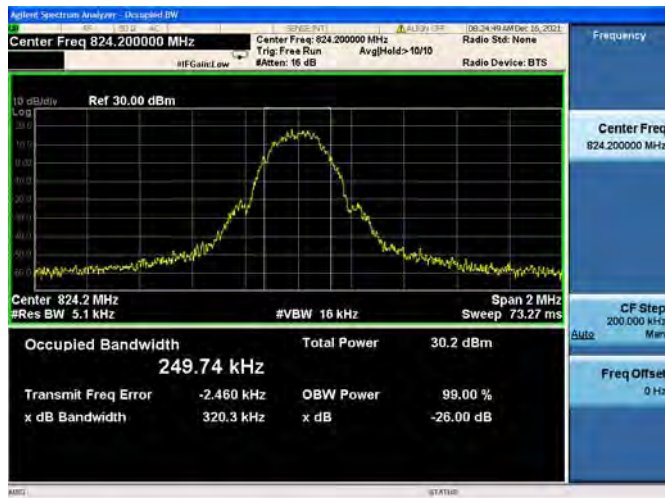
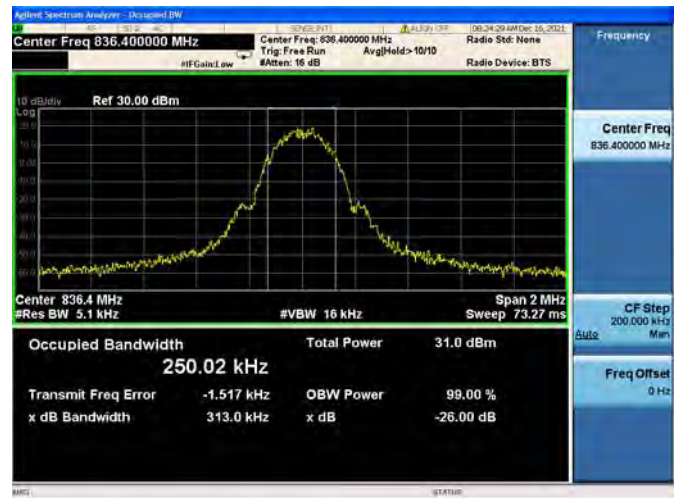
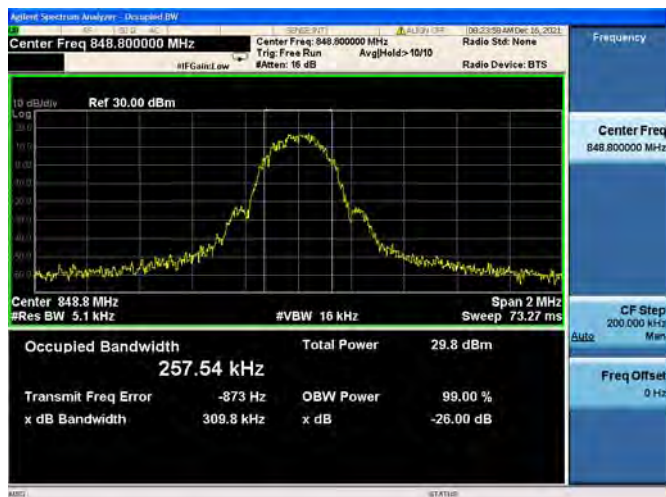
WCDMA Band IV				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	1312	1712.4	4.20	4.73
	1413	1732.6	4.19	4.79
	1513	1752.6	4.18	4.74

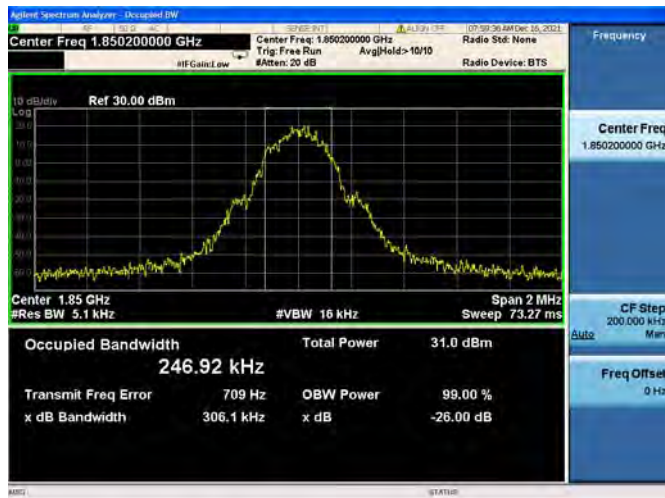
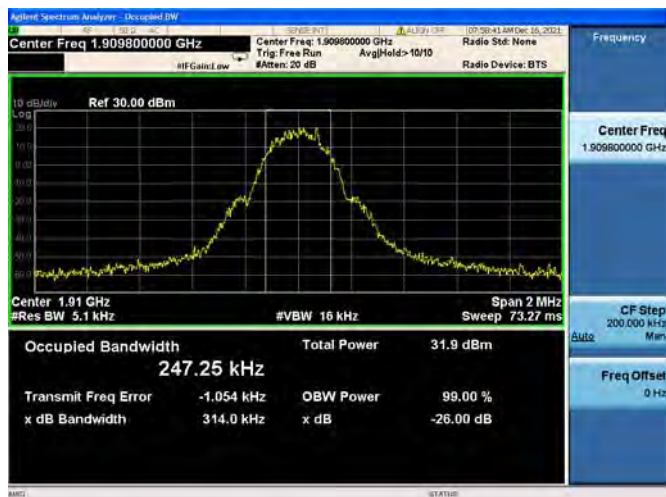


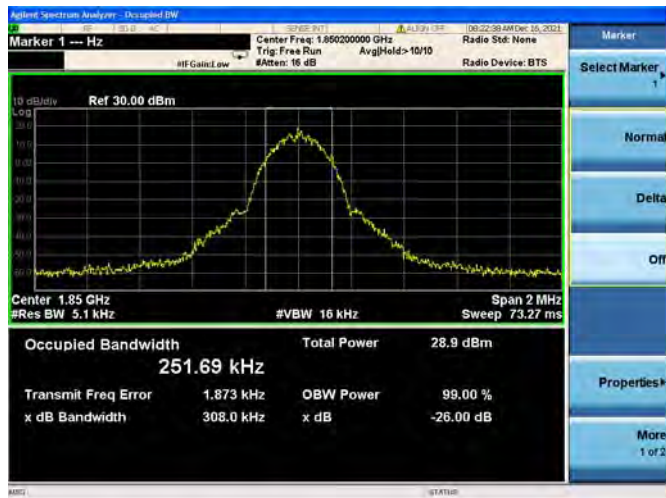
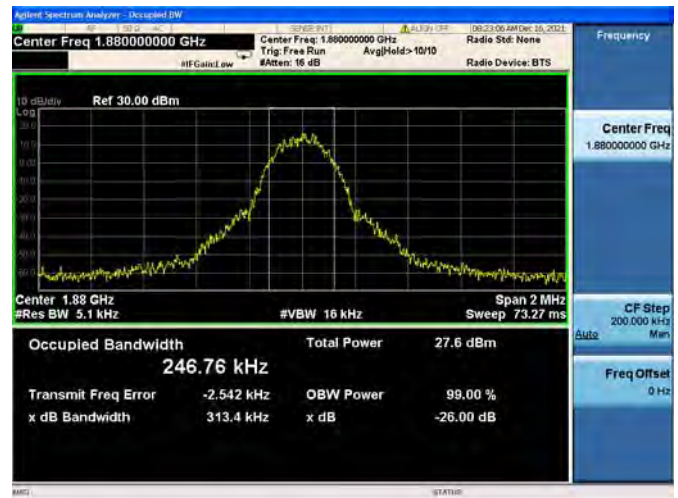
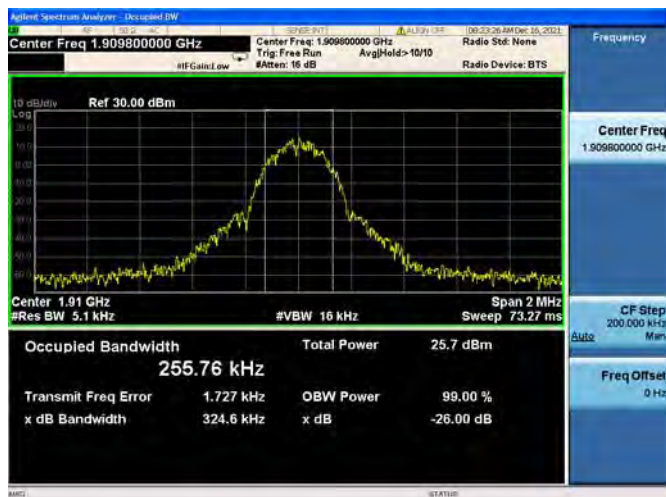


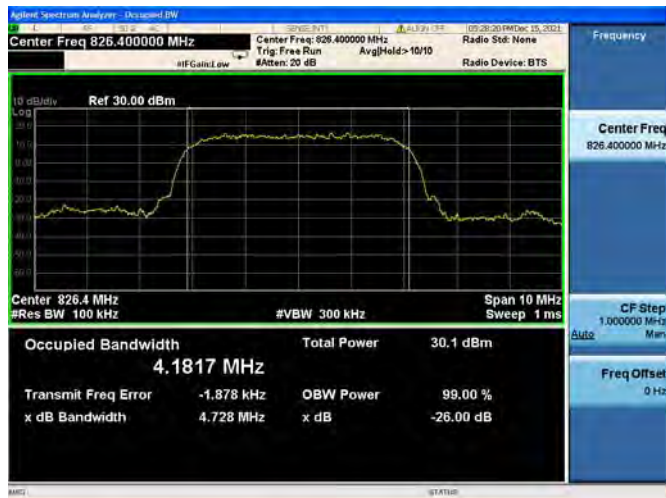
WCDMA Band II				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	9262	1852.4	4.18	4.76
	9400	1880.0	4.18	4.73
	9538	1907.6	4.19	4.75



**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

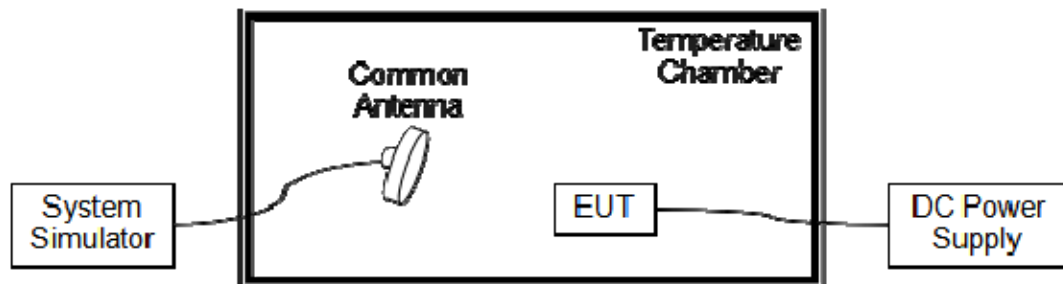
According to FCC section 22.355, 24.235 and 27.54 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (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 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 3.60V, 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
100	3.87	+20(Ref)	44	0.053	PASS
100		0	29	0.035	
100		+10	25	0.030	
100		+20	29	0.035	
100		+30	44	0.053	
100		+40	37	0.044	
115	4.45	+20	36	0.043	
85	3.60	+20	-18	-0.022	

GSM850(EDGE), CH189, 836.4MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.87	+20(Ref)	-58	-0.069	PASS
100		0	52	0.062	
100		+10	-25	-0.030	
100		+20	30	0.036	
100		+30	45	0.054	
100		+40	41	0.049	
115	4.45	+20	-17	-0.020	
85	3.60	+20	23	0.027	





GSM1900(GSM), CH661, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.87	+20(Ref)	-38	-0.020	PASS
100		0	-45	-0.024	
100		+10	37	0.020	
100		+20	35	0.019	
100		+30	-25	-0.013	
100		+40	21	0.011	
115	4.45	+20	-16	-0.009	
85	3.60	+20	29	0.015	

GSM1900(EDGE), CH661, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.87	+20(Ref)	-44	-0.023	PASS
100		0	32	0.017	
100		+10	50	0.027	
100		+20	48	0.026	
100		+30	51	0.027	
100		+40	34	0.018	
115	4.45	+20	37	0.020	
85	3.60	+20	14	0.007	





WCDMA Band V, CH4182, 836.4MHz					
Limit = $\pm$ 2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.87	+20(Ref)	-53	-0.063	PASS
100		0	20	0.024	
100		+10	16	0.019	
100		+20	-32	-0.038	
100		+30	13	0.016	
100		+40	19	0.023	
115	4.45	+20	-27	-0.032	
85	3.60	+20	20	0.024	

WCDMA Band IV, CH1413, 1732.6MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.87	+20(Ref)	52	0.030	PASS
100		0	43	0.025	
100		+10	-33	-0.019	
100		+20	55	0.032	
100		+30	23	0.013	
100		+40	-47	-0.027	
115	4.45	+20	54	0.031	
85	3.60	+20	27	0.016	





WCDMA Band II, CH9400, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.87	+20(Ref)	-37	-0.020	PASS
100		0	-14	-0.007	
100		+10	51	0.027	
100		+20	-24	-0.013	
100		+30	28	0.015	
100		+40	51	0.027	
115	4.45	+20	45	0.024	
85	3.60	+20	40	0.021	



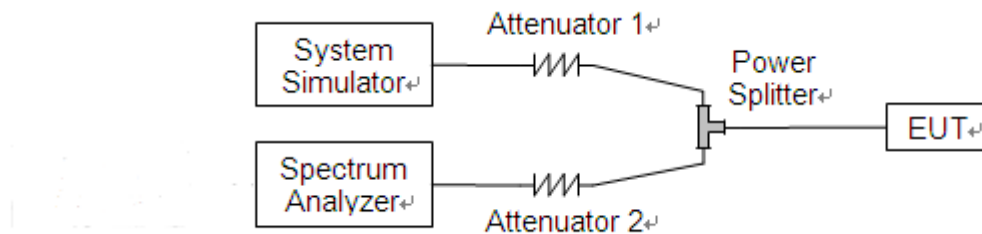
2.5. Conducted Out of Band Emissions

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:



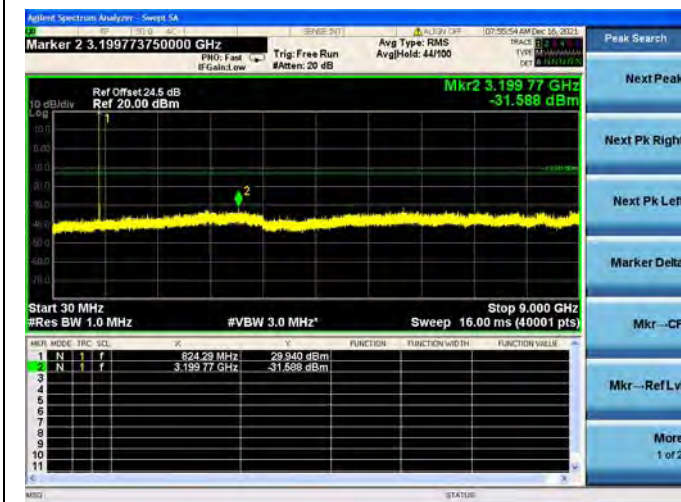
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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



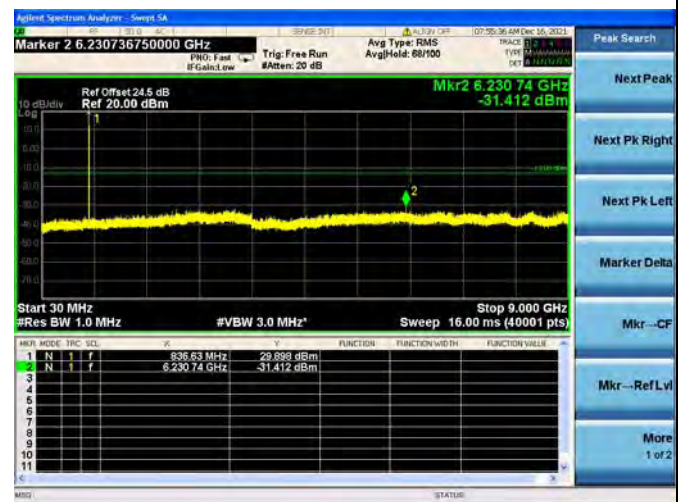


2.5.3. Test Result

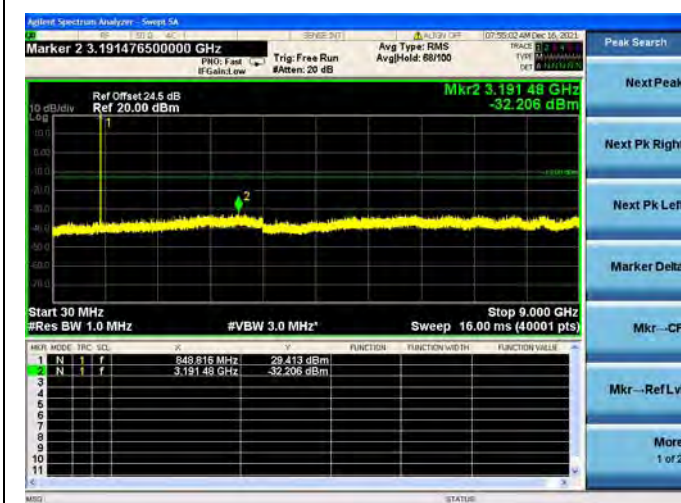
GSM850(GSM), CH128, 824.2MHz



GSM850(GSM), CH189, 836.4MHz

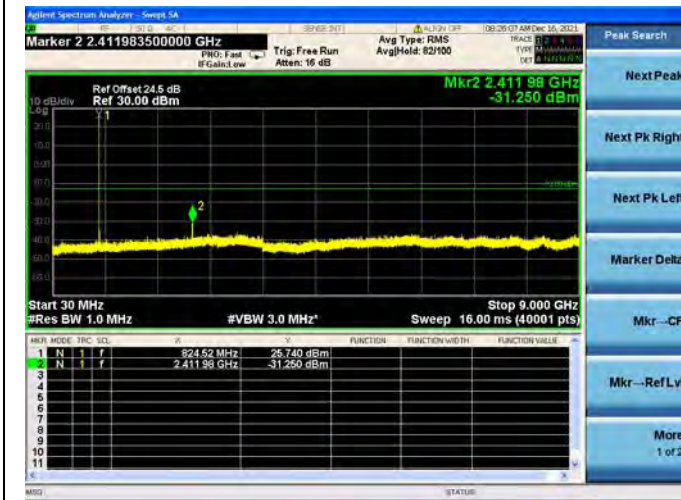


GSM850(GSM), CH251, 848.8MHz

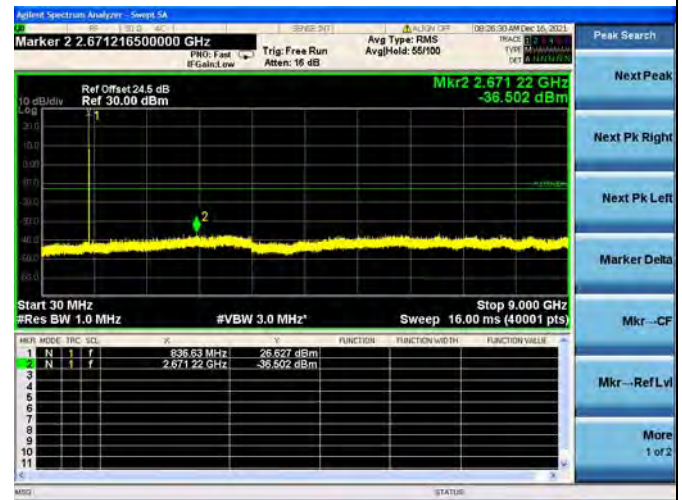




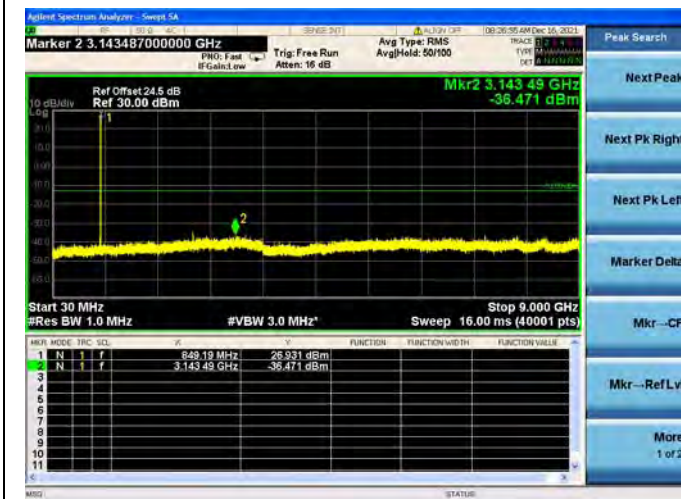
GSM850(EDGE), CH128, 824.2MHz



GSM850(EDGE), CH189, 836.4MHz

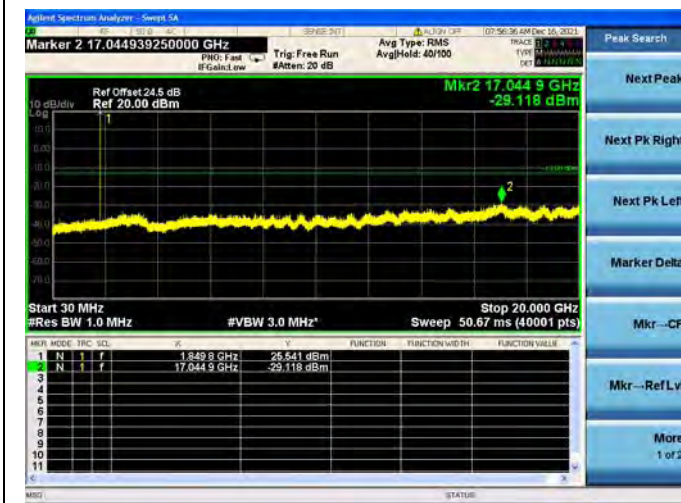


GSM850(EDGE), CH251, 848.8MHz

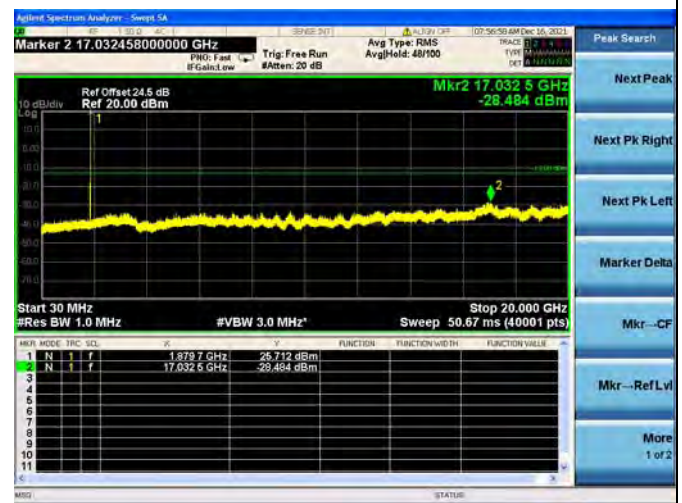




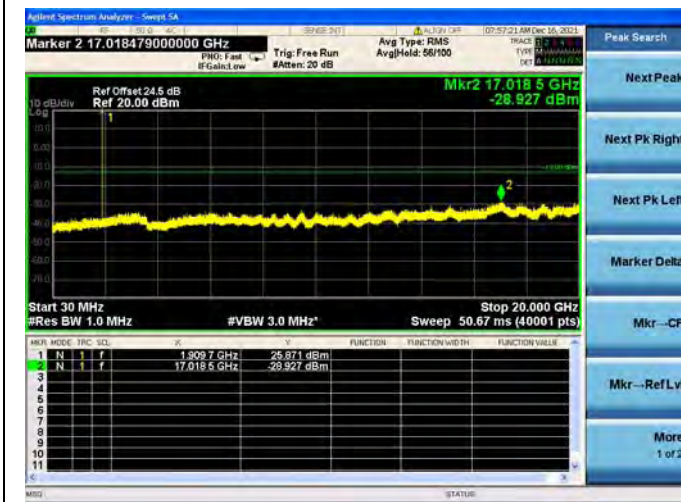
GSM1900(GSM), CH512, 1850.2MHz



GSM1900(GSM), CH661, 1880.0MHz

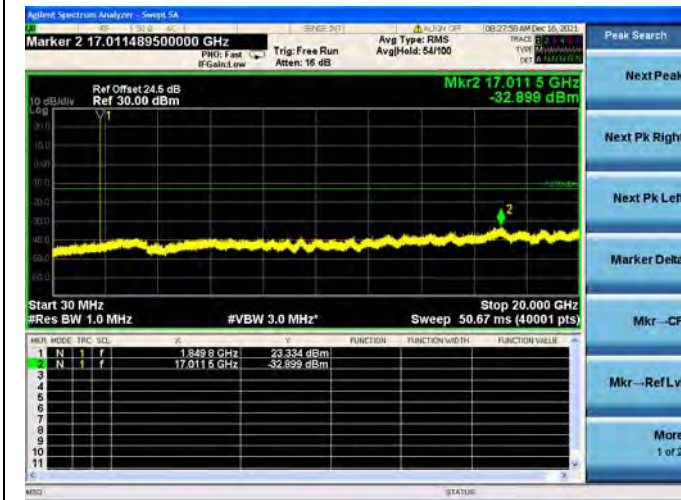


GSM1900(GSM), CH810, 1909.8MHz

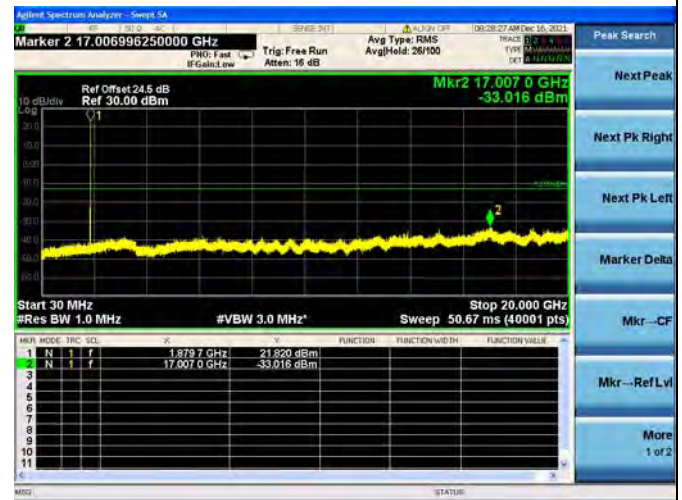




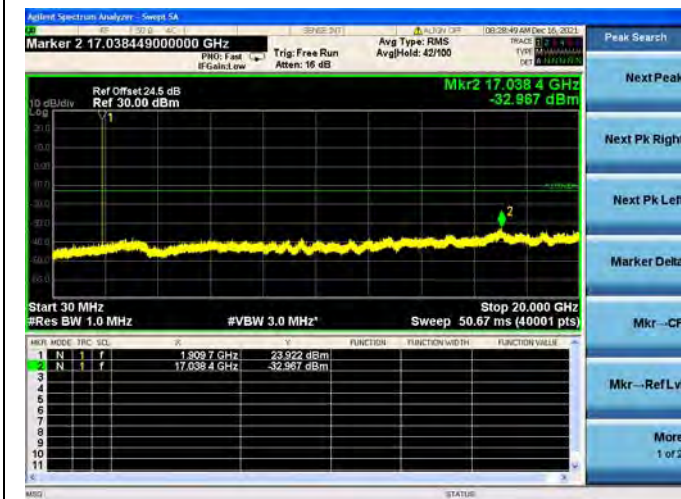
GSM1900(EDGE), CH512, 1850.2MHz



GSM1900(EDGE), CH661, 1880.0MHz

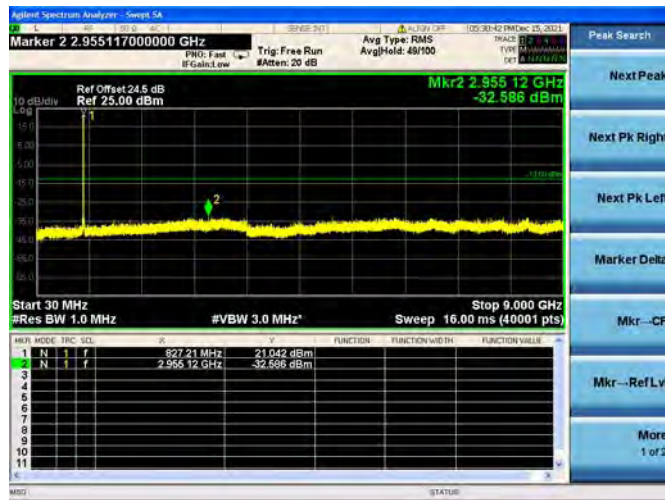


GSM1900(EDGE), CH810, 1909.8MHz

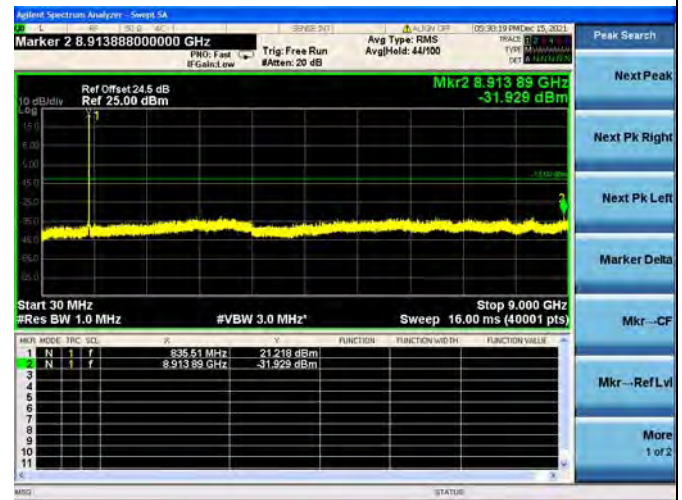




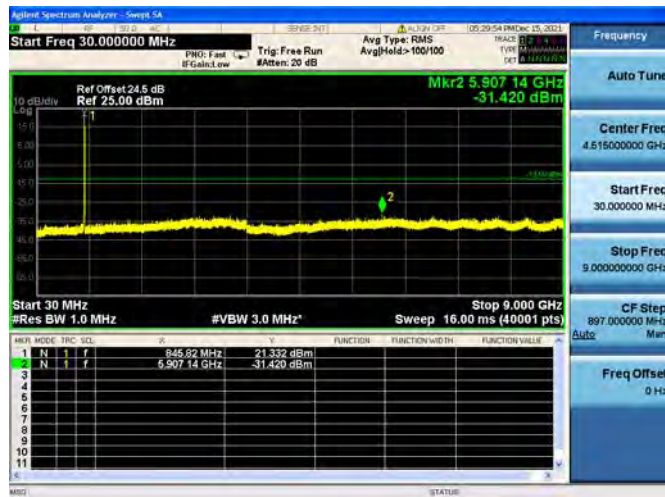
WCDMA Band V, CH4132, 826.4MHz



WCDMA Band V, CH4182, 836.4MHz

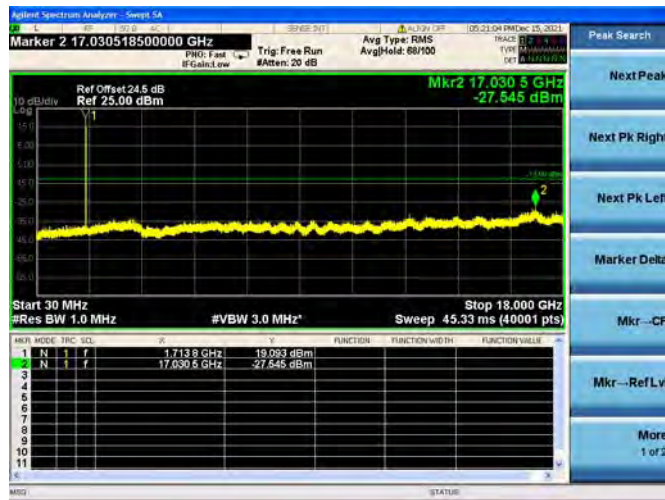


WCDMA Band V, CH4233, 846.6MHz

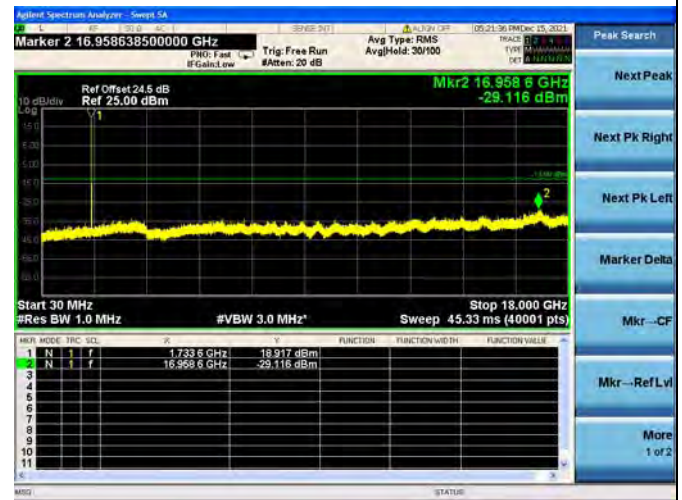




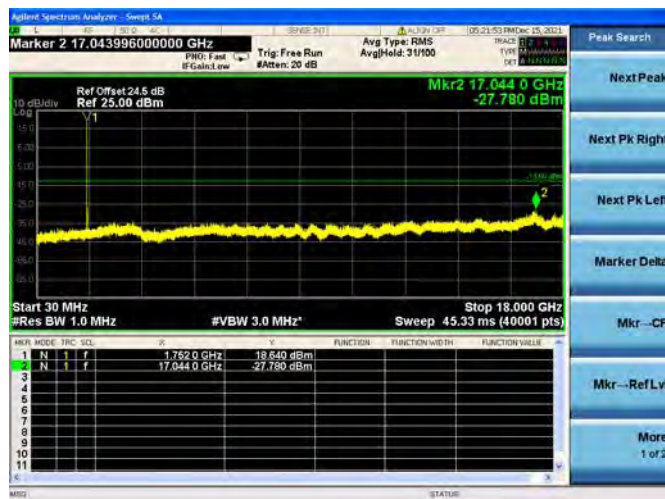
WCDMA Band IV, CH1312, 1712.4MHz



WCDMA Band IV, CH1413, 1732.6MHz

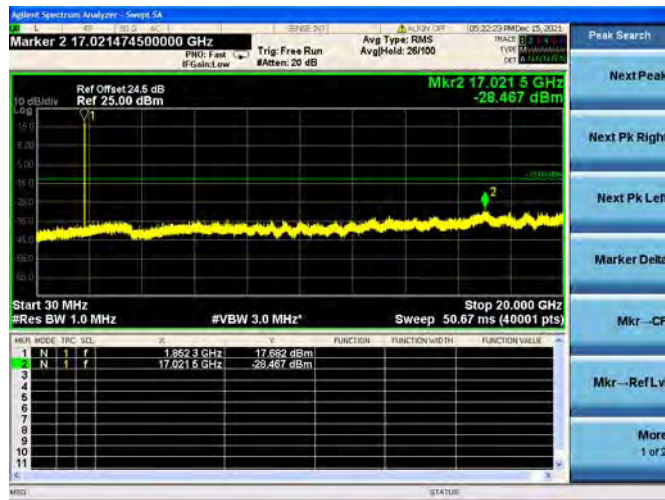


WCDMA Band IV, CH1513, 1752.6MHz

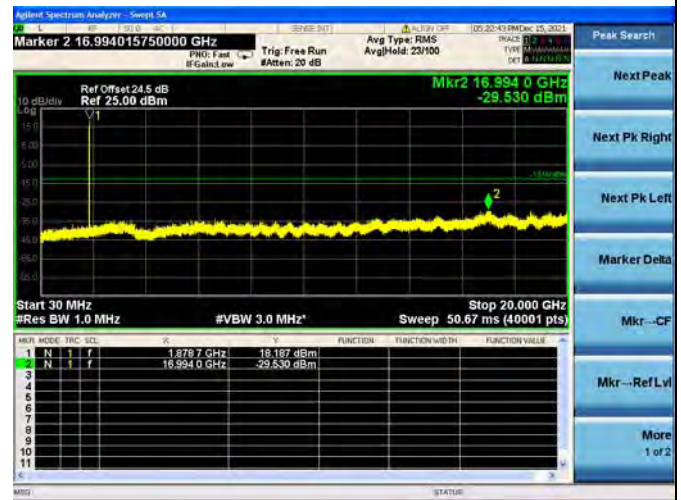




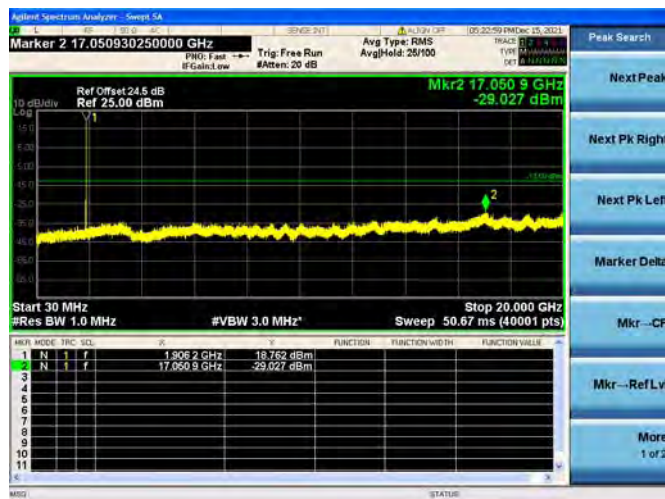
WCDMA Band II, CH9262, 1852.4MHz



WCDMA Band II, CH9400, 1880.0MHz



WCDMA Band II, CH9538, 1907.6MHz



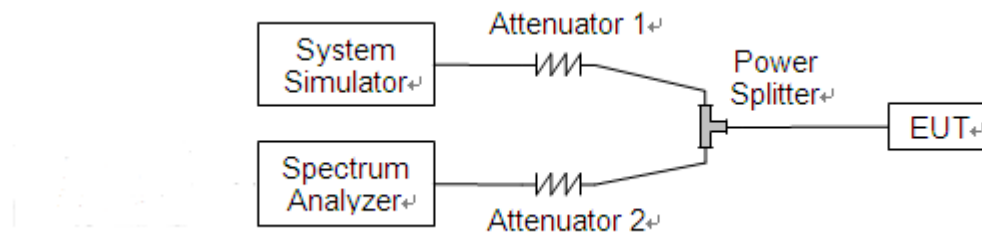
2.6. Band Edge

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:



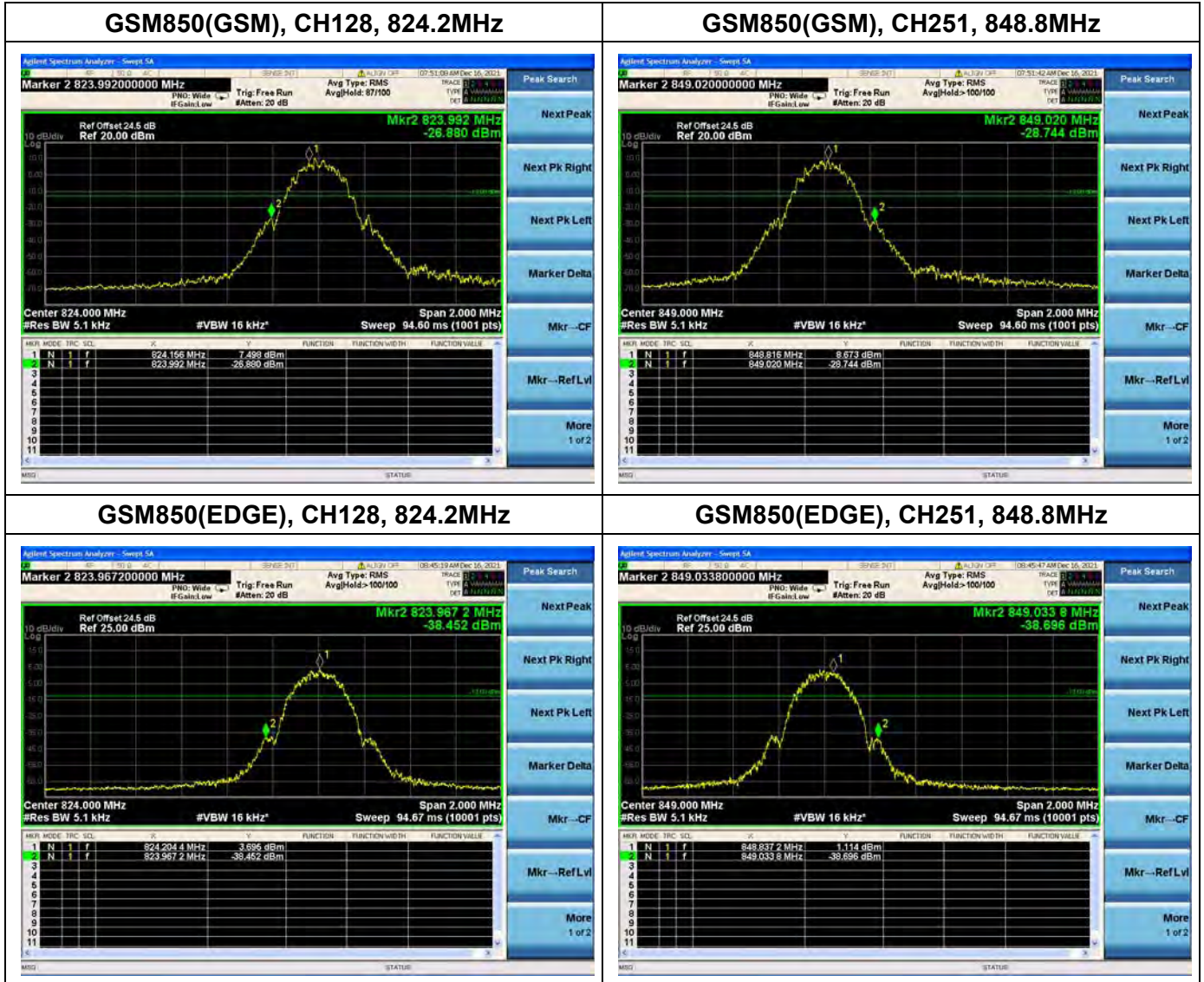
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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





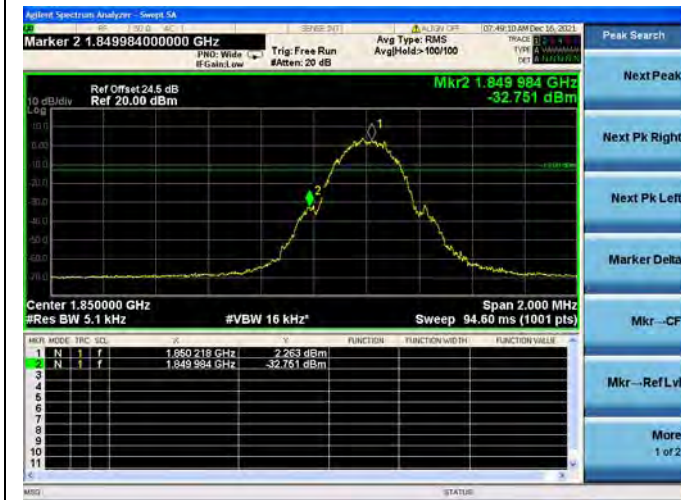
2.6.3. Test Result

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

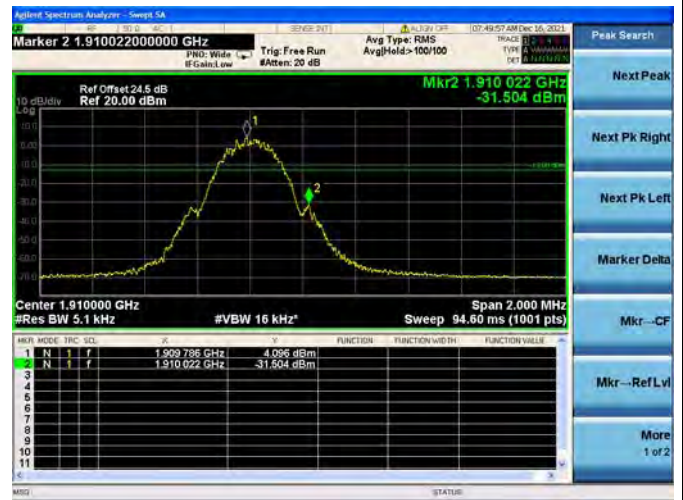




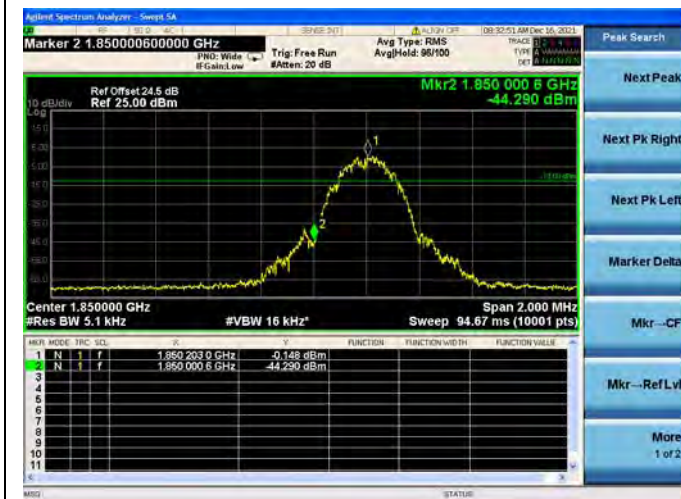
GSM1900(GSM), CH512, 1850.2MHz



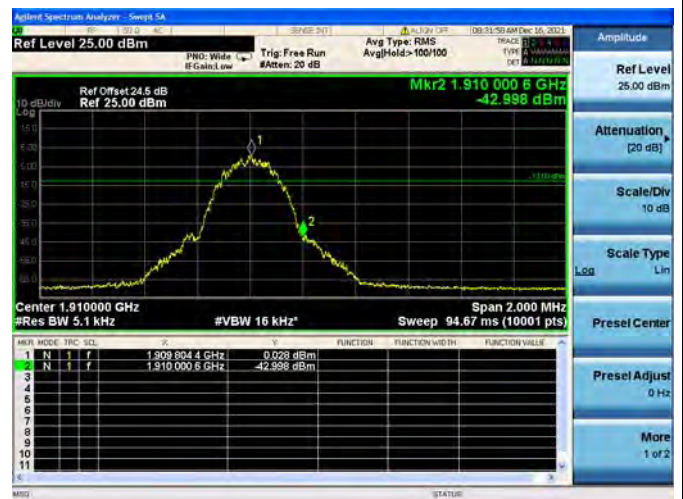
GSM1900(GSM), CH810, 1909.8MHz



GSM1900(EDGE), CH512, 1850.2MHz



GSM1900(EDGE), CH810, 1909.8MHz





WCDMA Band V, CH4132, 826.4MHz



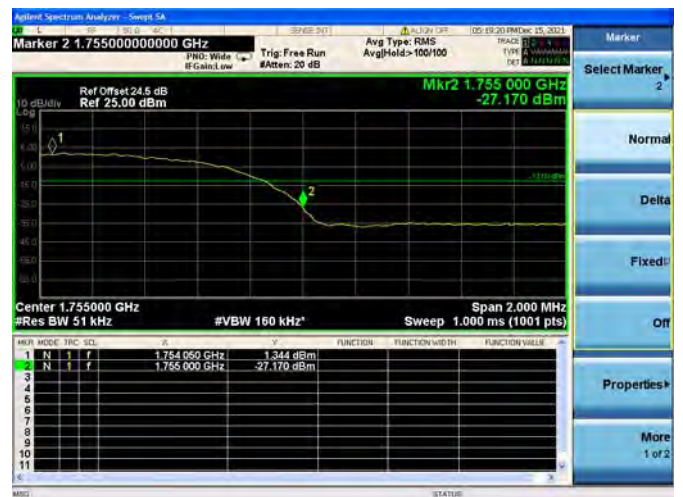
WCDMA Band V, CH4233, 846.6MHz



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****Top Antenna**

GSM850								
Band	Channel	Frequency (MHz)	PCL	Measured E.R.P.		Limit		Verdict
				dBm	W	dBm	W	
GSM	128	824.20	5	28.40	0.692	38.5	7	PASS
	189	836.40	5	28.43	0.697			PASS
	251	848.80	5	28.30	0.676			PASS
GPRS	128	824.20	5	28.34	0.682	38.5	7	PASS
	189	836.40	5	28.33	0.681			PASS
	251	848.80	5	28.17	0.656			PASS
EDGE	128	824.20	5	22.80	0.191	38.5	7	PASS
	189	836.40	5	22.69	0.186			PASS
	251	848.80	5	22.61	0.182			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	25.40	0.347	33	2	PASS
	661	1880.0	0	25.36	0.344			PASS
	810	1909.8	0	25.38	0.345			PASS
GPRS	512	1850.2	0	25.38	0.345	33	2	PASS
	661	1880.0	0	25.45	0.351			PASS
	810	1909.8	0	25.43	0.349			PASS
EDGE	512	1850.2	0	20.99	0.126	33	2	PASS
	661	1880.0	0	21.01	0.126			PASS
	810	1909.8	0	20.94	0.124			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	19.99	0.100	38.5	7	PASS
	4182	836.4	20.08	0.102			PASS
	4233	846.6	20.07	0.102			PASS
HSDPA	4132	826.4	19.35	0.086	38.5	7	PASS
	4182	836.4	19.39	0.087			PASS
	4233	846.6	19.41	0.087			PASS
HSUPA	4132	826.4	19.41	0.087	38.5	7	PASS
	4182	836.4	19.41	0.087			PASS
	4233	846.6	19.48	0.089			PASS
HSPA+	4132	826.4	18.48	0.070	38.5	7	PASS
	4182	836.4	18.38	0.069			PASS
	4233	846.6	18.41	0.069			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	18.28	0.067	30	1	PASS
	1413	1732.6	18.41	0.069			PASS
	1513	1752.6	18.37	0.069			PASS
HSDPA	1312	1712.4	17.24	0.053	30	1	PASS
	1413	1732.6	17.21	0.053			PASS
	1513	1752.6	17.19	0.052			PASS
HSUPA	1312	1712.4	17.17	0.052	30	1	PASS
	1413	1732.6	17.19	0.052			PASS
	1513	1752.6	17.11	0.051			PASS
HSPA+	1312	1712.4	16.18	0.041	30	1	PASS
	1413	1732.6	16.14	0.041			PASS
	1513	1752.6	16.14	0.041			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	18.47	0.070	33	2	PASS
	9400	1880.0	18.55	0.072			PASS
	9538	1907.6	18.40	0.069			PASS
HSDPA	9262	1852.4	17.30	0.054	33	2	PASS
	9400	1880.0	17.25	0.053			PASS
	9538	1907.6	17.11	0.051			PASS
HSUPA	9262	1852.4	17.31	0.054	33	2	PASS
	9400	1880.0	17.19	0.052			PASS
	9538	1907.6	17.04	0.051			PASS
HSPA+	9262	1852.4	16.28	0.042	33	2	PASS
	9400	1880.0	16.19	0.042			PASS
	9538	1907.6	16.14	0.041			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							



**Bottom Antenna**

GSM850								
Band	Channel	Frequency (MHz)	PCL	Measured E.R.P.		Limit		Verdict
				dBm	W	dBm	W	
GSM	128	824.20	5	26.13	0.410	38.5	7	PASS
	189	836.40	5	26.11	0.408			PASS
	251	848.80	5	26.04	0.402			PASS
GPRS	128	824.20	5	26.15	0.412	38.5	7	PASS
	189	836.40	5	26.19	0.416			PASS
	251	848.80	5	26.05	0.403			PASS
EDGE	128	824.20	5	20.73	0.118	38.5	7	PASS
	189	836.40	5	20.57	0.114			PASS
	251	848.80	5	20.75	0.119			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	27.50	0.562	33	2	PASS
	661	1880.0	0	27.56	0.570			PASS
	810	1909.8	0	27.58	0.573			PASS
GPRS	512	1850.2	0	27.52	0.565	33	2	PASS
	661	1880.0	0	27.59	0.574			PASS
	810	1909.8	0	27.57	0.571			PASS
EDGE	512	1850.2	0	24.01	0.252	33	2	PASS
	661	1880.0	0	23.76	0.238			PASS
	810	1909.8	0	23.72	0.236			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	18.28	0.067	38.5	7	PASS
	4182	836.4	18.30	0.068			PASS
	4233	846.6	18.26	0.067			PASS
HSDPA	4132	826.4	17.22	0.053	38.5	7	PASS
	4182	836.4	17.18	0.052			PASS
	4233	846.6	17.32	0.054			PASS
HSUPA	4132	826.4	17.24	0.053	38.5	7	PASS
	4182	836.4	17.21	0.053			PASS
	4233	846.6	17.25	0.053			PASS
HSPA+	4132	826.4	16.31	0.043	38.5	7	PASS
	4182	836.4	16.20	0.042			PASS
	4233	846.6	16.09	0.041			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	20.88	0.122	30	1	PASS
	1413	1732.6	21.00	0.126			PASS
	1513	1752.6	20.95	0.124			PASS
HSDPA	1312	1712.4	19.93	0.098	30	1	PASS
	1413	1732.6	19.82	0.096			PASS
	1513	1752.6	19.91	0.098			PASS
HSUPA	1312	1712.4	19.92	0.098	30	1	PASS
	1413	1732.6	19.90	0.098			PASS
	1513	1752.6	19.87	0.097			PASS
HSPA+	1312	1712.4	18.88	0.077	30	1	PASS
	1413	1732.6	18.82	0.076			PASS
	1513	1752.6	18.82	0.076			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	21.29	0.135	33	2	PASS
	9400	1880.0	21.34	0.136			PASS
	9538	1907.6	21.30	0.135			PASS
HSDPA	9262	1852.4	20.36	0.109	33	2	PASS
	9400	1880.0	20.33	0.108			PASS
	9538	1907.6	20.30	0.107			PASS
HSUPA	9262	1852.4	20.30	0.107	33	2	PASS
	9400	1880.0	20.37	0.109			PASS
	9538	1907.6	20.30	0.107			PASS
HSPA+	9262	1852.4	19.28	0.085	33	2	PASS
	9400	1880.0	19.34	0.086			PASS
	9538	1907.6	19.23	0.084			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							

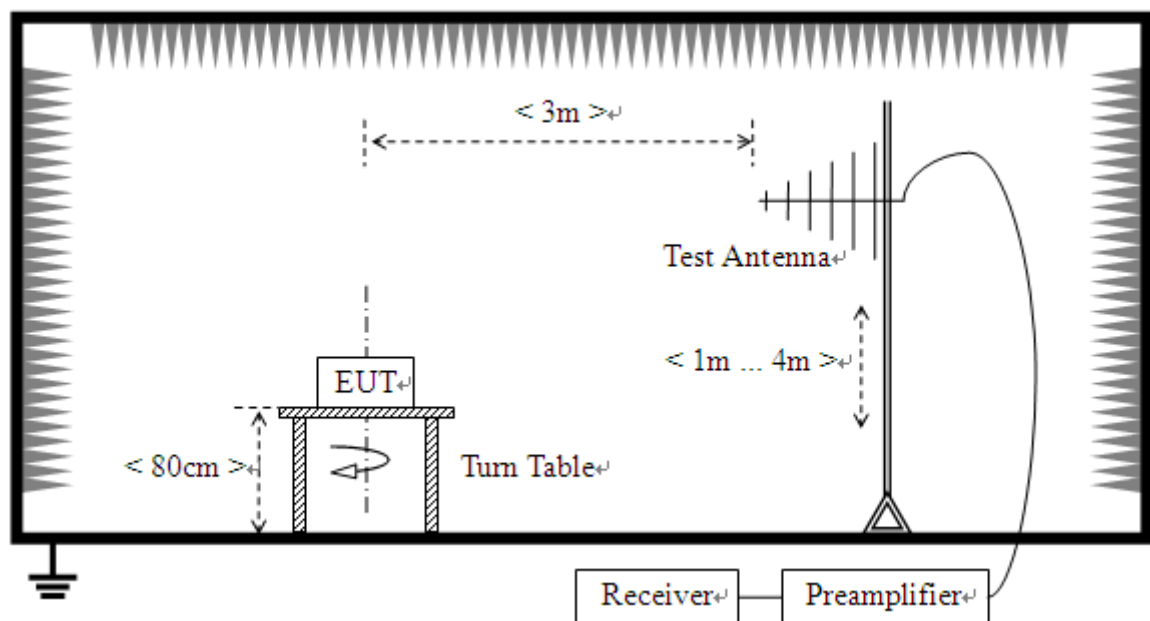


2.8. Radiated Out of Band Emissions

2.8.1. Requirement

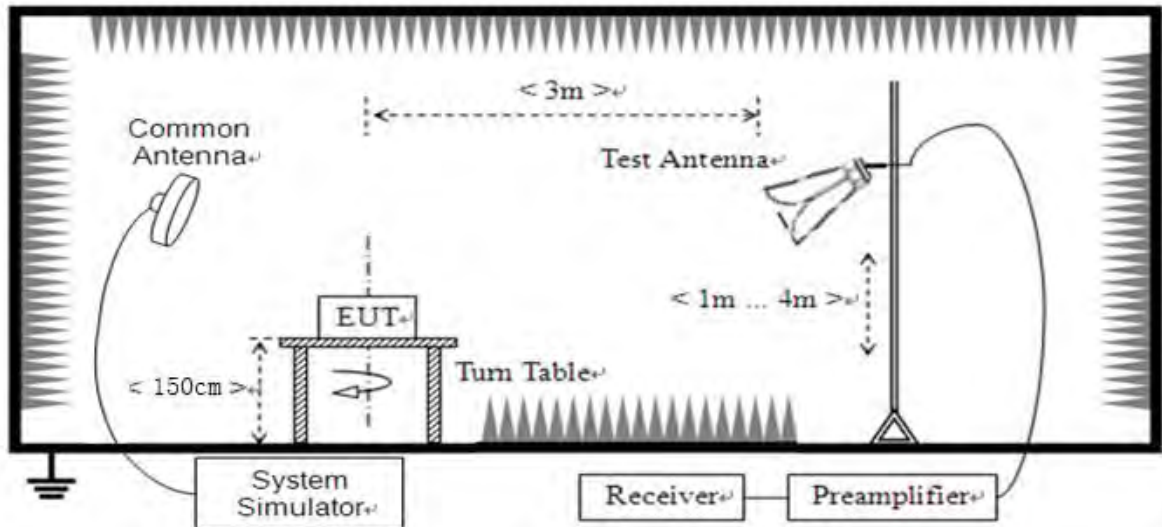
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

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

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the test spectrum analyze, so spectrum analyze reading is the final values which contain the data of A_{TOT} .

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

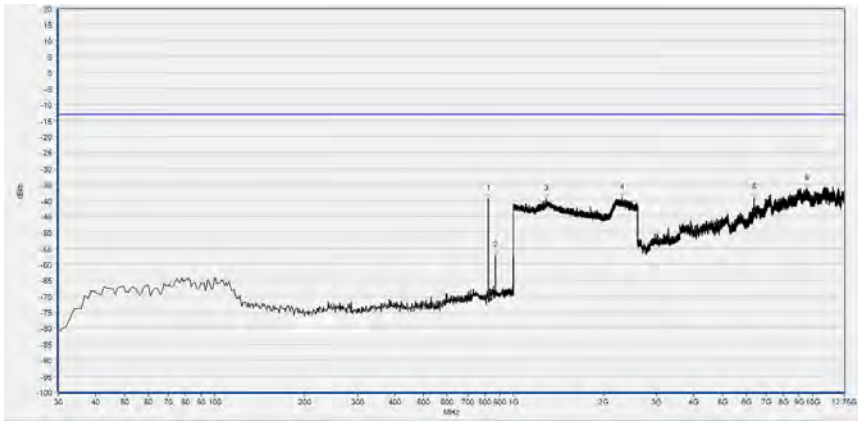
Note2: All test mode and condition mentioned were considered and evaluated respectively by performing full test, only the worst data were recorded and reported.

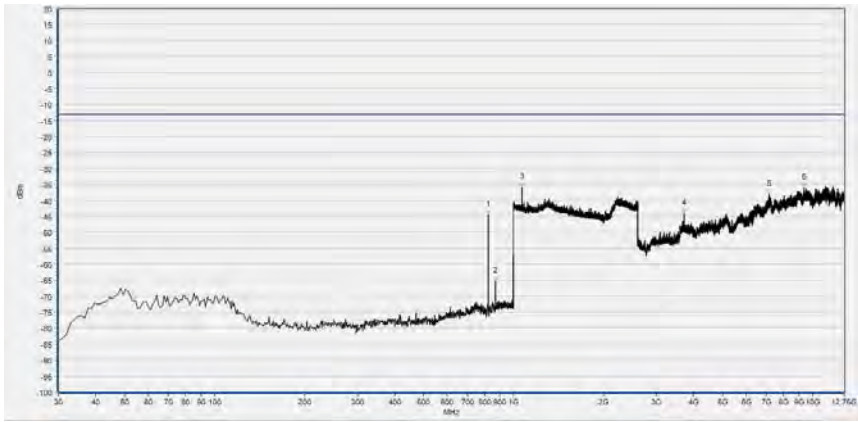
Note3: All spurious emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.



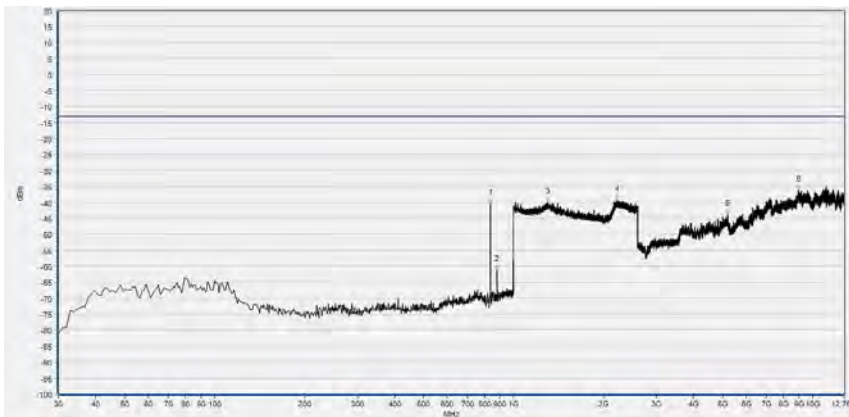
Top Antenna

GSM850(GSM), Low Channel					
					
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-39.39	-13.00	Horizontal	N/A
2	869.050	-57.31	-13.00	Horizontal	N/A
3	1287.475	-39.36	-13.00	Horizontal	PASS
4	2297.799	-39.21	-13.00	Horizontal	PASS
5	6383.870	-39.29	-13.00	Horizontal	PASS
6	9601.082	-36.24	-13.00	Horizontal	PASS

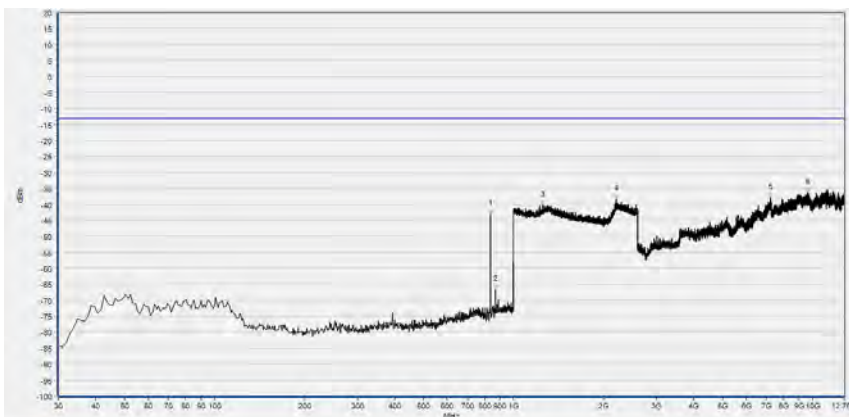
					
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-44.62	-13.00	Vertical	N/A
2	869.050	-65.42	-13.00	Vertical	N/A
3	1067.227	-35.76	-13.00	Vertical	PASS
4	3722.240	-44.22	-13.00	Vertical	PASS
5	7157.256	-38.03	-13.00	Vertical	PASS
6	9372.204	-36.13	-13.00	Vertical	PASS



GSM850(GSM), Mid Channel



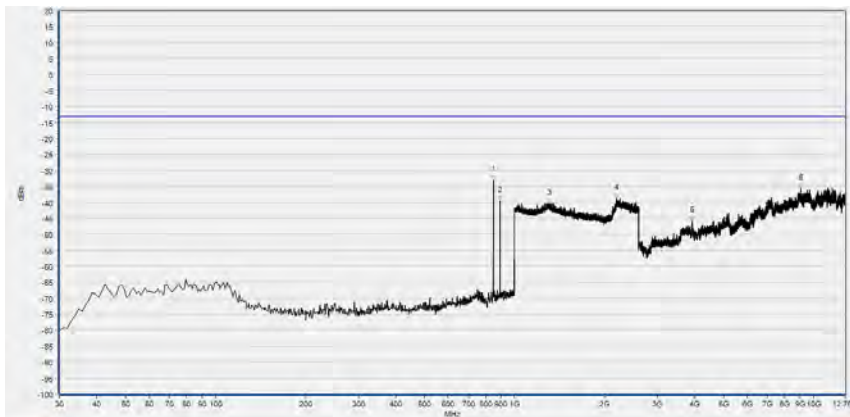
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-40.42	-13.00	Horizontal	N/A
2	881.660	-61.13	-13.00	Horizontal	N/A
3	1297.719	-39.93	-13.00	Horizontal	PASS
4	2212.005	-39.24	-13.00	Horizontal	PASS
5	5191.489	-43.78	-13.00	Horizontal	PASS
6	8964.284	-36.18	-13.00	Horizontal	PASS



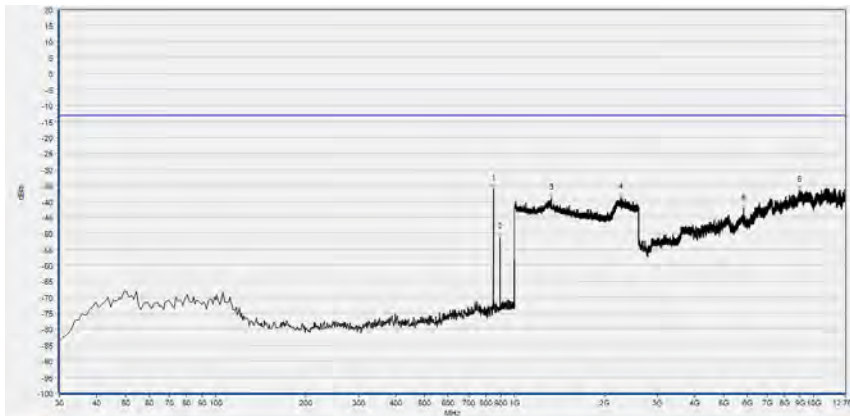
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-43.07	-13.00	Vertical	N/A
2	869.050	-66.80	-13.00	Vertical	N/A
3	1252.901	-40.28	-13.00	Vertical	PASS
4	2201.761	-38.31	-13.00	Vertical	PASS
5	7234.779	-37.91	-13.00	Vertical	PASS
6	9643.535	-36.42	-13.00	Vertical	PASS



GSM850(GSM), High Channel



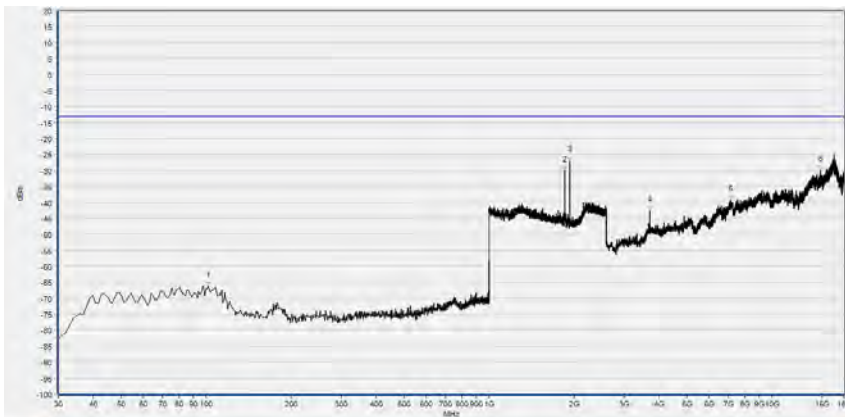
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-32.90	-13.00	Horizontal	N/A
2	893.300	-39.50	-13.00	Horizontal	N/A
3	1306.042	-40.41	-13.00	Horizontal	PASS
4	2191.517	-38.83	-13.00	Horizontal	PASS
5	3925.277	-45.74	-13.00	Horizontal	PASS
6	9065.803	-35.72	-13.00	Horizontal	PASS



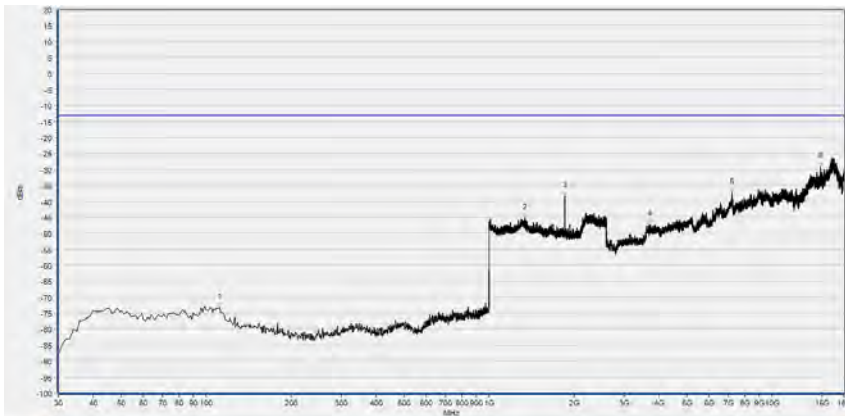
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-36.15	-13.00	Vertical	N/A
2	893.300	-51.36	-13.00	Vertical	N/A
3	1325.250	-39.03	-13.00	Vertical	PASS
4	2268.347	-38.73	-13.00	Vertical	PASS
5	5848.591	-42.32	-13.00	Vertical	PASS
6	8949.518	-36.63	-13.00	Vertical	PASS



GSM1900(GSM), Low Channel



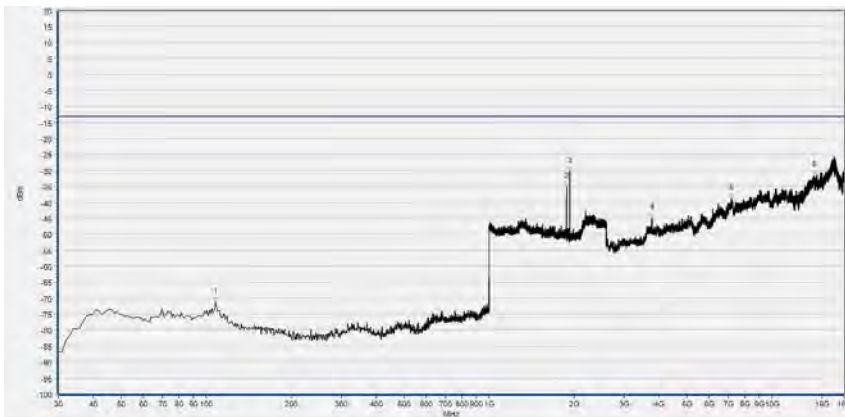
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-66.25	-13.00	Horizontal	PASS
2	1850.260	-30.09	-13.00	Horizontal	N/A
3	1930.292	-27.21	-13.00	Horizontal	N/A
4	3700.600	-42.66	-13.00	Horizontal	PASS
5	7148.027	-39.26	-13.00	Horizontal	PASS
6	14869.031	-29.88	-13.00	Horizontal	PASS



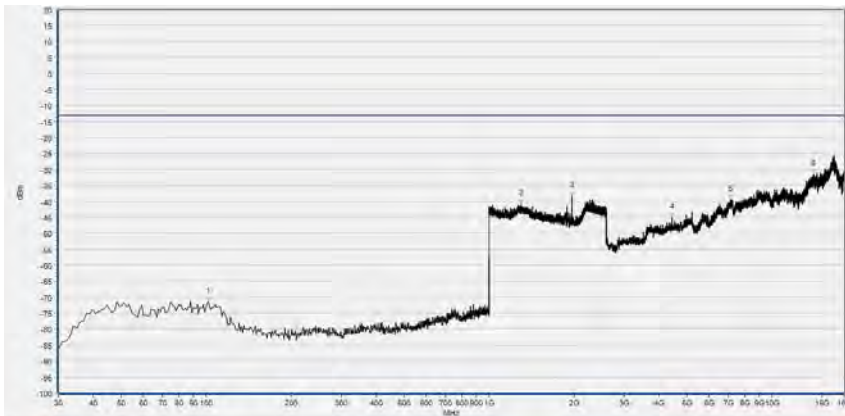
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	111.480	-73.09	-13.00	Vertical	PASS
2	1341.257	-45.28	-13.00	Vertical	PASS
3	1850.260	-38.31	-13.00	Vertical	N/A
4	3700.600	-47.26	-13.00	Vertical	PASS
5	7240.444	-37.12	-13.00	Vertical	PASS
6	14877.432	-29.24	-13.00	Vertical	PASS



GSM1900(GSM), Mid Channel



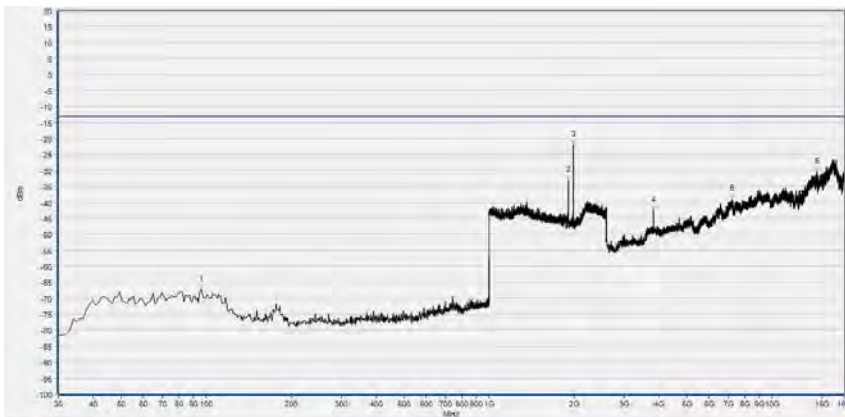
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-71.16	-13.00	Horizontal	PASS
2	1879.712	-35.13	-13.00	Horizontal	N/A
3	1930.292	-30.21	-13.00	Horizontal	N/A
4	3759.411	-44.75	-13.00	Horizontal	PASS
5	7167.630	-38.70	-13.00	Horizontal	PASS
6	14068.085	-31.69	-13.00	Horizontal	PASS



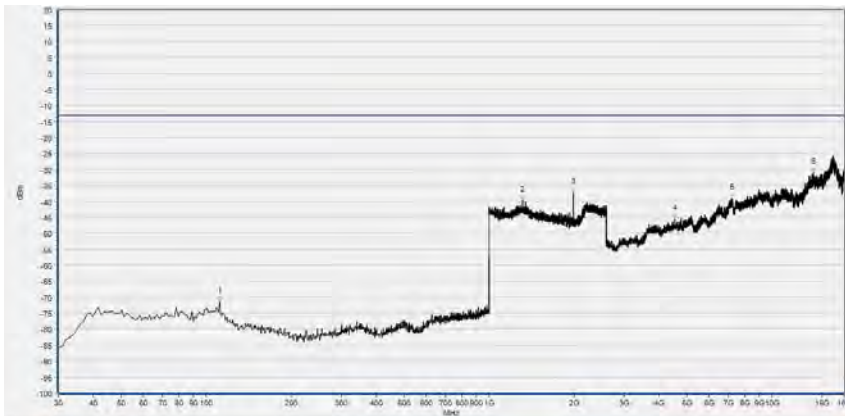
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-71.36	-13.00	Vertical	PASS
2	1297.079	-40.70	-13.00	Vertical	PASS
3	1959.744	-38.32	-13.00	Vertical	N/A
4	4442.735	-45.12	-13.00	Vertical	PASS
5	7139.625	-39.53	-13.00	Vertical	PASS
6	14014.875	-31.72	-13.00	Vertical	PASS



GSM1900(GSM), High Channel



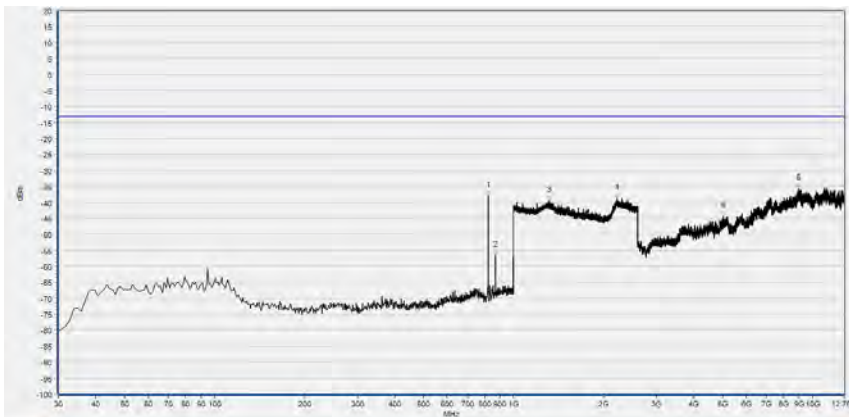
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	95.960	-67.17	-13.00	Horizontal	PASS
2	1909.804	-33.24	-13.00	Horizontal	N/A
3	1989.836	-21.93	-13.00	Horizontal	N/A
4	3818.221	-42.50	-13.00	Horizontal	PASS
5	7215.239	-39.05	-13.00	Horizontal	PASS
6	14412.548	-30.58	-13.00	Horizontal	PASS



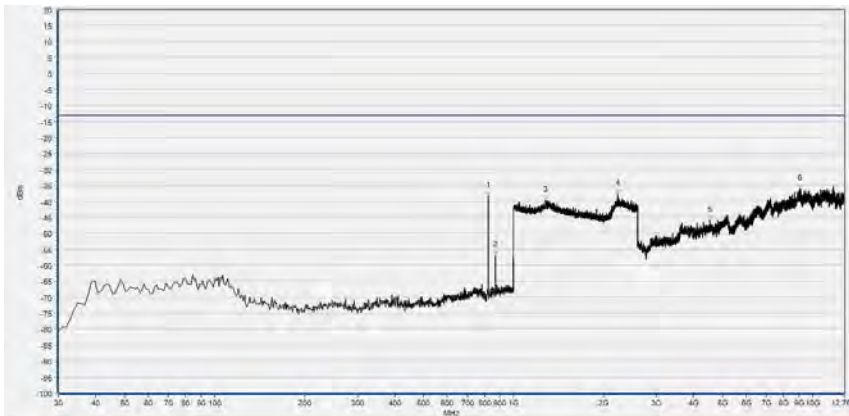
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	111.480	-71.43	-13.00	Vertical	PASS
2	1314.366	-39.77	-13.00	Vertical	PASS
3	1989.836	-37.24	-13.00	Vertical	N/A
4	4546.354	-45.56	-13.00	Vertical	PASS
5	7206.838	-39.00	-13.00	Vertical	PASS
6	14026.077	-30.86	-13.00	Vertical	PASS



GSM850(EDGE), Low Channel



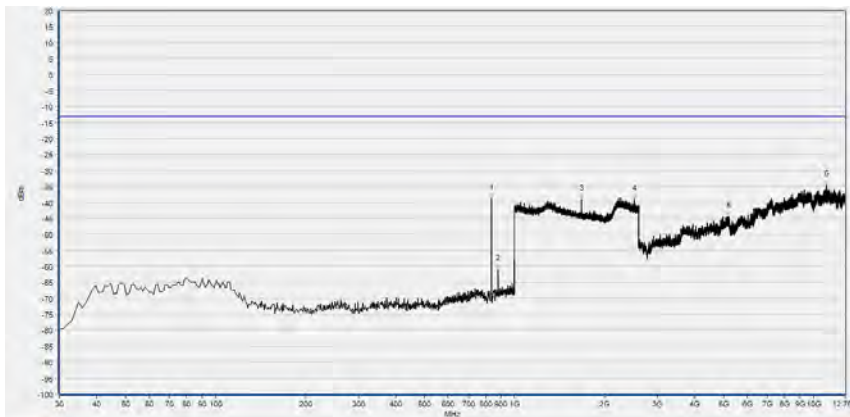
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-37.95	-13.00	Horizontal	N/A
2	869.050	-56.71	-13.00	Horizontal	N/A
3	1316.287	-39.47	-13.00	Horizontal	PASS
4	2220.968	-38.75	-13.00	Horizontal	PASS
5	5036.443	-44.41	-13.00	Horizontal	PASS
6	8942.135	-35.74	-13.00	Horizontal	PASS



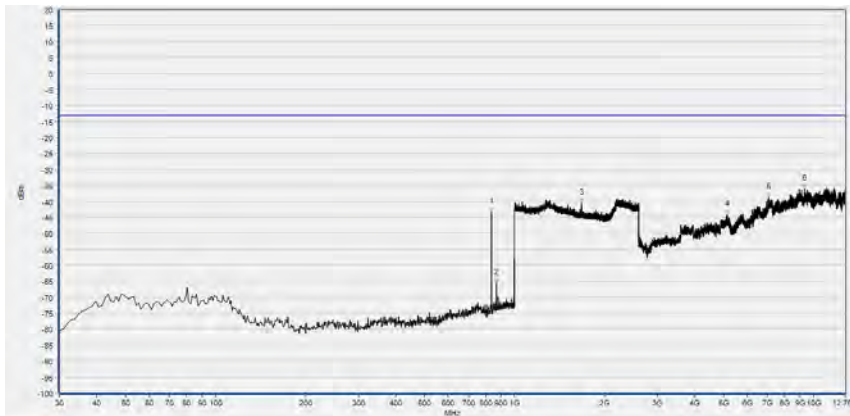
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-38.34	-13.00	Vertical	N/A
2	869.050	-56.86	-13.00	Vertical	N/A
3	1277.871	-39.74	-13.00	Vertical	PASS
4	2227.371	-37.66	-13.00	Vertical	PASS
5	4527.005	-45.99	-13.00	Vertical	PASS
6	9076.878	-36.20	-13.00	Vertical	PASS



GSM850(EDGE), Mid Channel



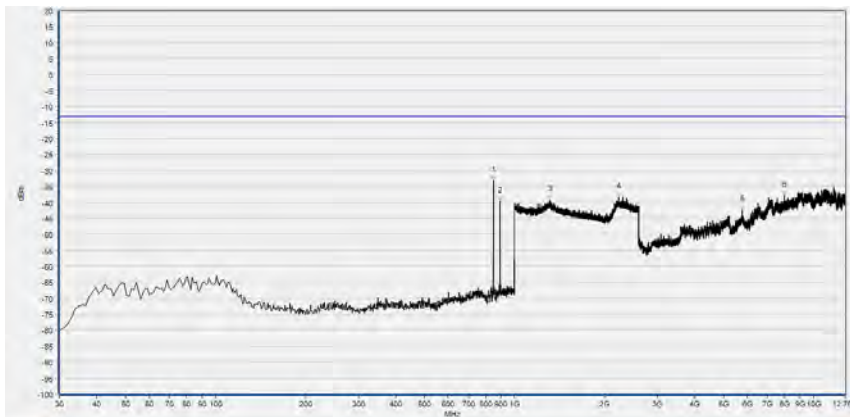
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-38.85	-13.00	Horizontal	N/A
2	881.660	-60.91	-13.00	Horizontal	N/A
3	1672.909	-39.06	-13.00	Horizontal	PASS
4	2509.084	-38.96	-13.00	Horizontal	PASS
5	5200.718	-44.29	-13.00	Horizontal	PASS
6	11064.794	-34.54	-13.00	Horizontal	PASS



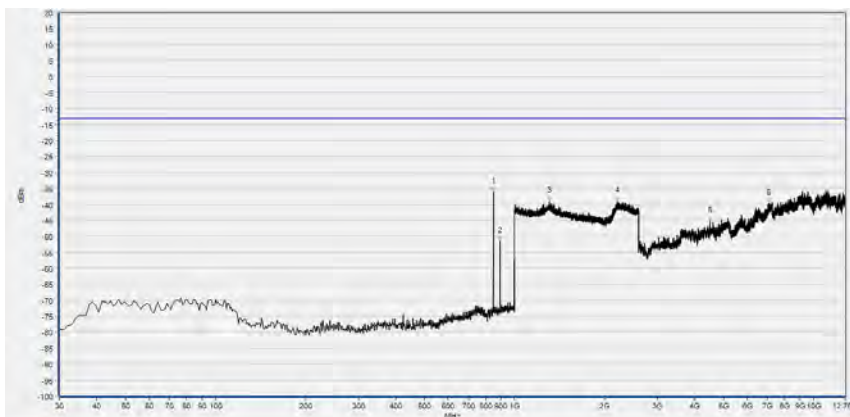
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-43.26	-13.00	Vertical	N/A
2	869.050	-65.70	-13.00	Vertical	N/A
3	1672.269	-40.66	-13.00	Vertical	PASS
4	5136.116	-44.22	-13.00	Vertical	PASS
5	7070.504	-38.72	-13.00	Vertical	PASS
6	9296.527	-36.00	-13.00	Vertical	PASS



GSM850(EDGE), High Channel



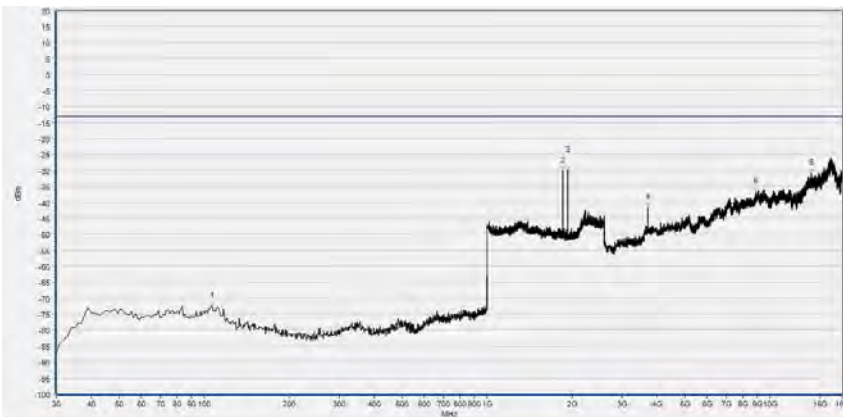
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-33.14	-13.00	Horizontal	N/A
2	893.300	-39.56	-13.00	Horizontal	N/A
3	1314.366	-39.14	-13.00	Horizontal	PASS
4	2234.414	-38.41	-13.00	Horizontal	PASS
5	5765.530	-42.34	-13.00	Horizontal	PASS
6	7997.090	-37.83	-13.00	Horizontal	PASS



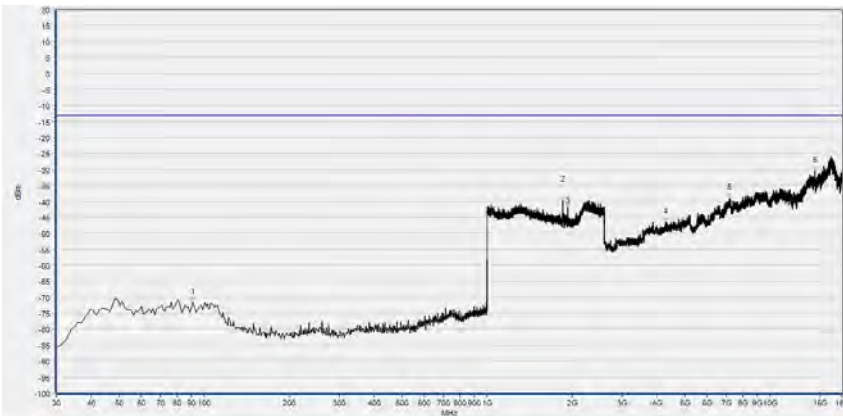
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-36.16	-13.00	Vertical	N/A
2	893.300	-51.58	-13.00	Vertical	N/A
3	1304.762	-38.91	-13.00	Vertical	PASS
4	2199.840	-39.07	-13.00	Vertical	PASS
5	4515.930	-45.36	-13.00	Vertical	PASS
6	7066.812	-39.64	-13.00	Vertical	PASS



GSM1900(EDGE), Low Channel



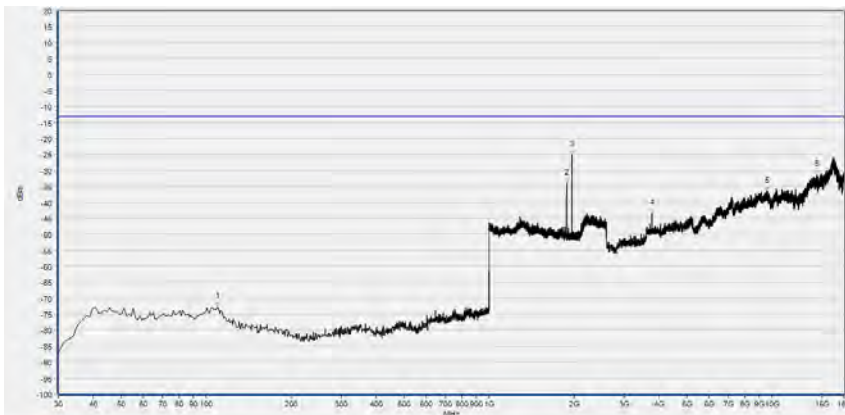
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-72.60	-13.00	Horizontal	PASS
2	1849.620	-30.37	-13.00	Horizontal	N/A
3	1929.652	-30.12	-13.00	Horizontal	N/A
4	3700.600	-41.61	-13.00	Horizontal	PASS
5	8923.550	-36.71	-13.00	Horizontal	PASS
6	14026.077	-30.88	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	91.110	-71.63	-13.00	Vertical	PASS
2	1850.260	-39.59	-13.00	Vertical	N/A
3	1929.652	-41.87	-13.00	Vertical	N/A
4	4280.306	-46.67	-13.00	Vertical	PASS
5	7178.833	-38.97	-13.00	Vertical	PASS
6	14412.548	-30.41	-13.00	Vertical	PASS



GSM1900(EDGE), Mid Channel



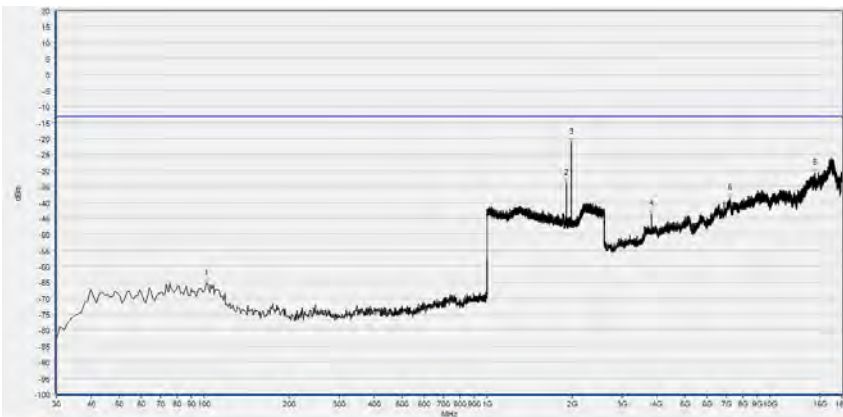
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	109.540	-72.65	-13.00	Horizontal	PASS
2	1879.712	-34.11	-13.00	Horizontal	N/A
3	1959.744	-25.09	-13.00	Horizontal	N/A
4	3759.411	-43.51	-13.00	Horizontal	PASS
5	9587.270	-36.44	-13.00	Horizontal	PASS
6	14420.949	-31.48	-13.00	Horizontal	PASS



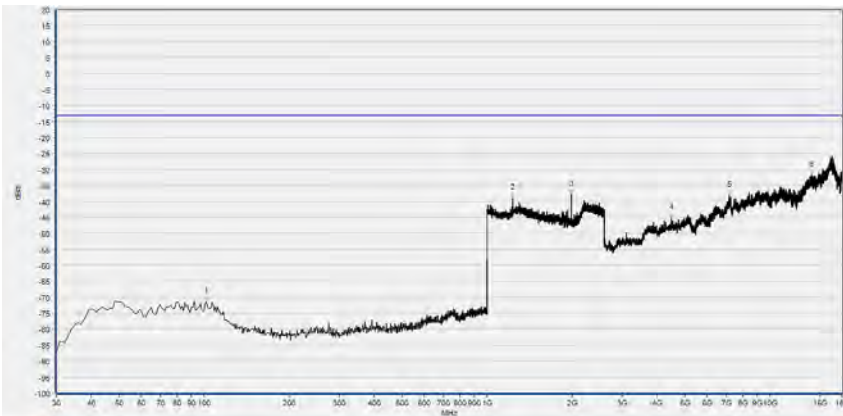
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	109.540	-72.25	-13.00	Vertical	PASS
2	1879.712	-44.75	-13.00	Vertical	N/A
3	1959.744	-39.77	-13.00	Vertical	N/A
4	4846.008	-45.77	-13.00	Vertical	PASS
5	7484.088	-38.63	-13.00	Vertical	PASS
6	14275.323	-30.05	-13.00	Vertical	PASS



GSM1900(EDGD), High Channel



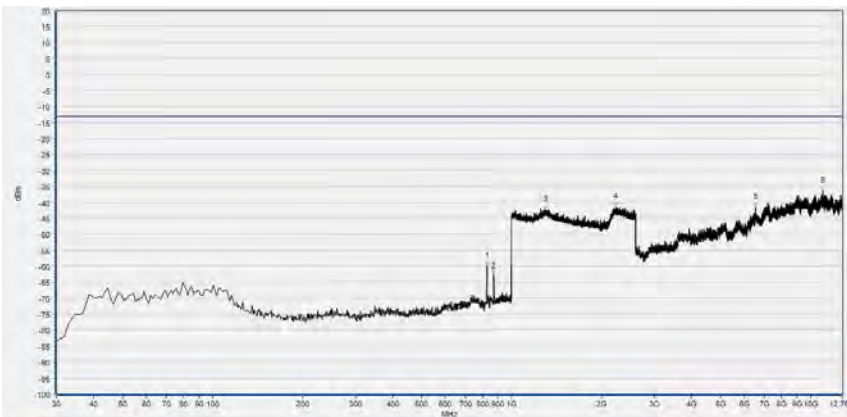
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-65.35	-13.00	Horizontal	PASS
2	1909.164	-34.08	-13.00	Horizontal	N/A
3	1989.196	-21.41	-13.00	Horizontal	N/A
4	3818.221	-43.72	-13.00	Horizontal	PASS
5	7212.439	-38.82	-13.00	Horizontal	PASS
6	14409.747	-30.94	-13.00	Horizontal	PASS



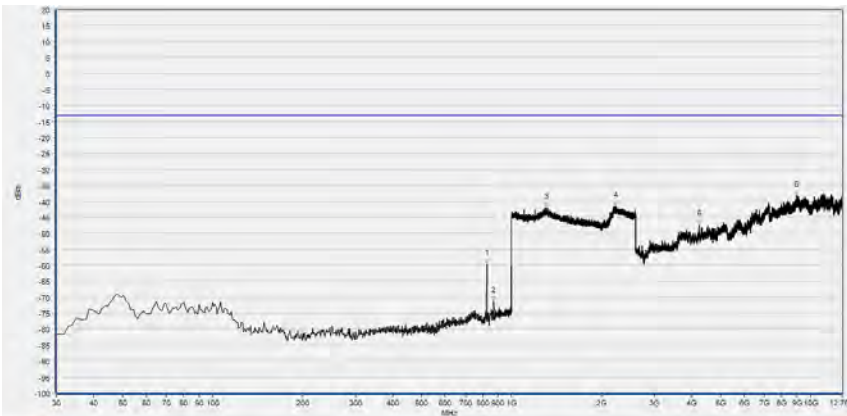
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-71.44	-13.00	Vertical	PASS
2	1231.773	-39.04	-13.00	Vertical	PASS
3	1989.836	-37.77	-13.00	Vertical	N/A
4	4476.341	-45.26	-13.00	Vertical	PASS
5	7195.636	-38.11	-13.00	Vertical	PASS
6	14020.476	-31.82	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), Low Channel



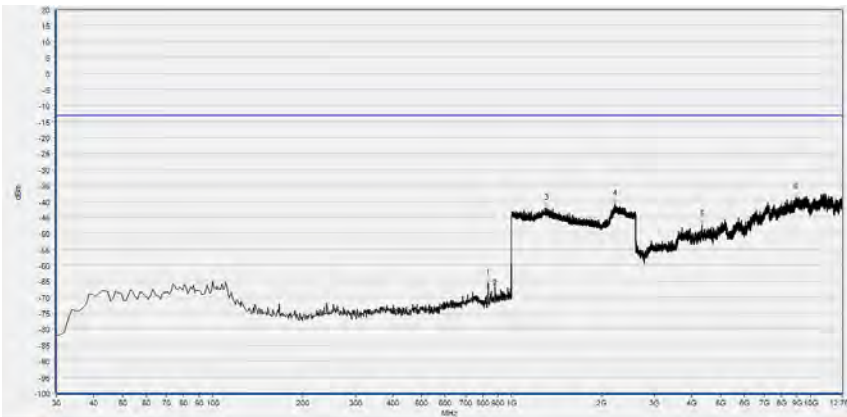
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-60.11	-13.00	Horizontal	N/A
2	871.960	-62.55	-13.00	Horizontal	N/A
3	1297.719	-42.27	-13.00	Horizontal	PASS
4	2228.011	-41.54	-13.00	Horizontal	PASS
5	6535.225	-41.55	-13.00	Horizontal	PASS
6	11005.728	-36.60	-13.00	Horizontal	PASS



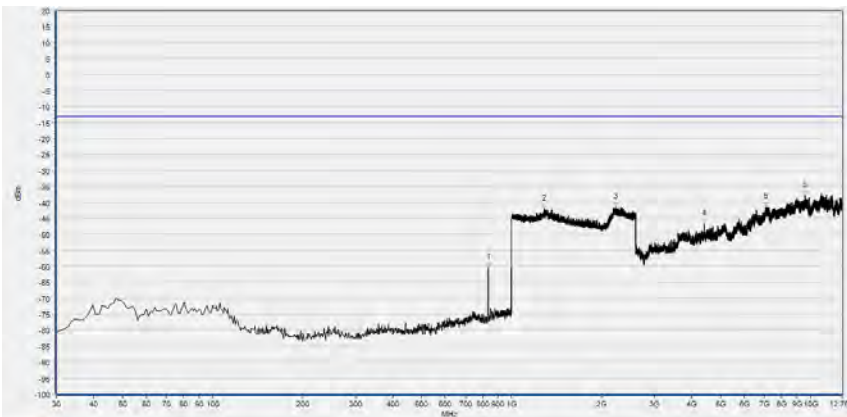
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-59.64	-13.00	Vertical	N/A
2	871.960	-71.22	-13.00	Vertical	N/A
3	1305.402	-41.92	-13.00	Vertical	PASS
4	2228.011	-41.41	-13.00	Vertical	PASS
5	4231.678	-47.28	-13.00	Vertical	PASS
6	8969.822	-38.07	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), Mid Channel



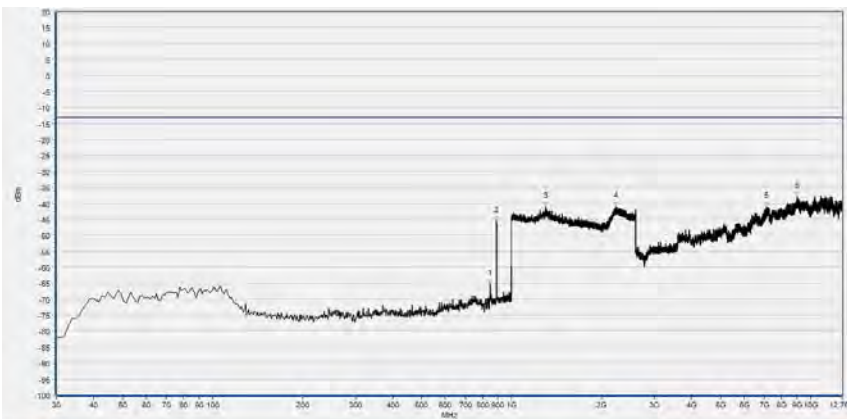
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	834.130	-65.60	-13.00	Horizontal	N/A
2	881.660	-66.17	-13.00	Horizontal	N/A
3	1304.762	-42.12	-13.00	Horizontal	PASS
4	2214.566	-40.88	-13.00	Horizontal	PASS
5	4329.505	-47.20	-13.00	Horizontal	PASS
6	8932.906	-38.69	-13.00	Horizontal	PASS



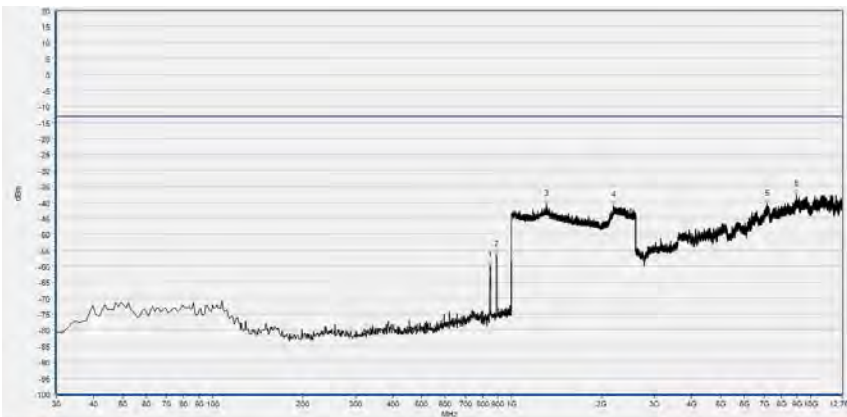
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	835.100	-60.41	-13.00	Vertical	N/A
2	1286.194	-42.07	-13.00	Vertical	PASS
3	2234.414	-41.36	-13.00	Vertical	PASS
4	4416.258	-46.78	-13.00	Vertical	PASS
5	7070.504	-41.54	-13.00	Vertical	PASS
6	9602.928	-37.98	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), High Channel



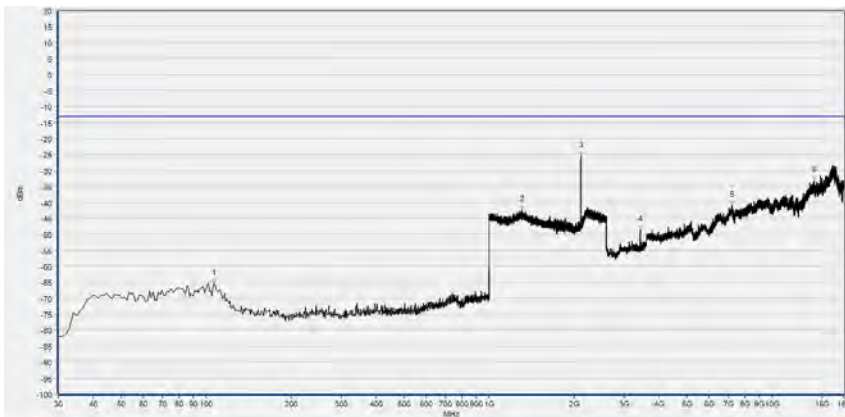
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	847.710	-65.11	-13.00	Horizontal	N/A
2	890.390	-45.48	-13.00	Horizontal	N/A
3	1297.719	-41.05	-13.00	Horizontal	PASS
4	2230.572	-41.08	-13.00	Horizontal	PASS
5	7098.191	-41.01	-13.00	Horizontal	PASS
6	9028.887	-37.77	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	847.710	-59.74	-13.00	Vertical	N/A
2	891.360	-56.35	-13.00	Vertical	N/A
3	1305.402	-40.58	-13.00	Vertical	PASS
4	2188.315	-41.02	-13.00	Vertical	PASS
5	7159.102	-40.66	-13.00	Vertical	PASS
6	8949.518	-37.45	-13.00	Vertical	PASS



WCDMA Band IV(WCDMA), Low Channel



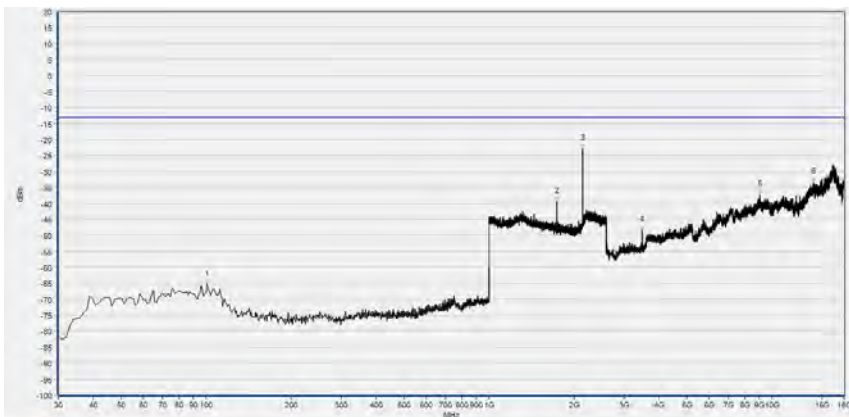
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-65.36	-13.00	Horizontal	PASS
2	1303.481	-42.24	-13.00	Horizontal	PASS
3	2112.125	-25.67	-13.00	Horizontal	N/A
4	3426.150	-48.69	-13.00	Horizontal	PASS
5	7220.840	-40.91	-13.00	Horizontal	PASS
6	14110.093	-33.27	-13.00	Horizontal	PASS



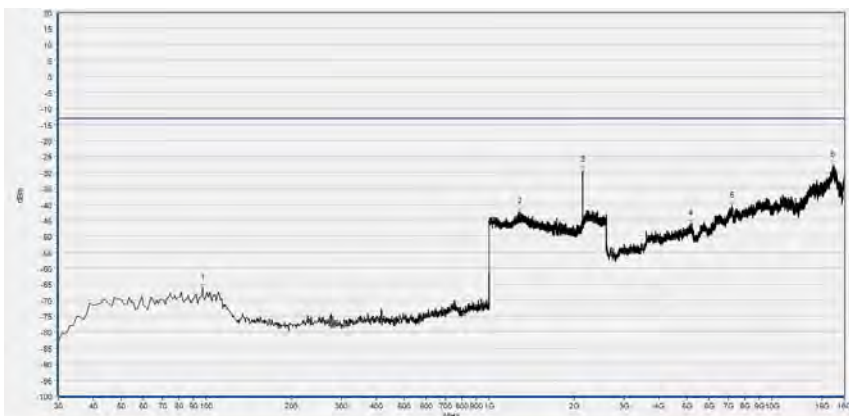
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-66.83	-13.00	Vertical	PASS
2	1311.164	-42.31	-13.00	Vertical	PASS
3	2110.844	-34.18	-13.00	Vertical	N/A
4	5070.049	-46.51	-13.00	Vertical	PASS
5	8993.562	-38.39	-13.00	Vertical	PASS
6	14869.031	-32.07	-13.00	Vertical	PASS



WCDMA Band IV(WCDMA), Mid Channel



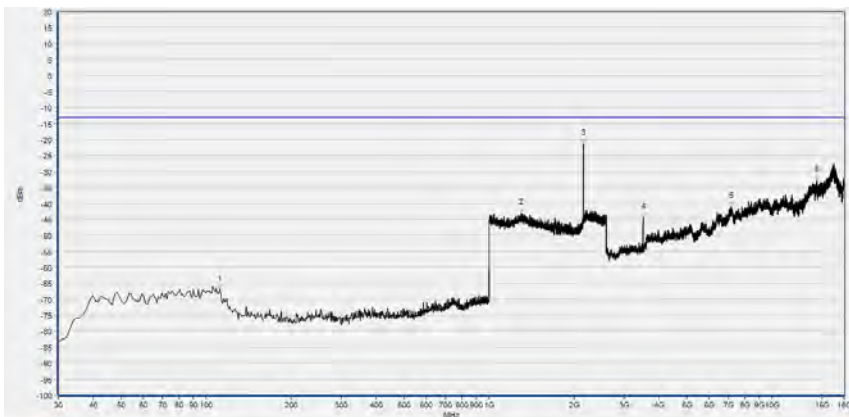
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	100.810	-65.47	-13.00	Horizontal	PASS
2	1738.215	-39.35	-13.00	Horizontal	N/A
3	2139.016	-22.86	-13.00	Horizontal	N/A
4	3479.360	-48.32	-13.00	Horizontal	PASS
5	9088.780	-37.15	-13.00	Horizontal	PASS
6	14003.673	-33.49	-13.00	Horizontal	PASS



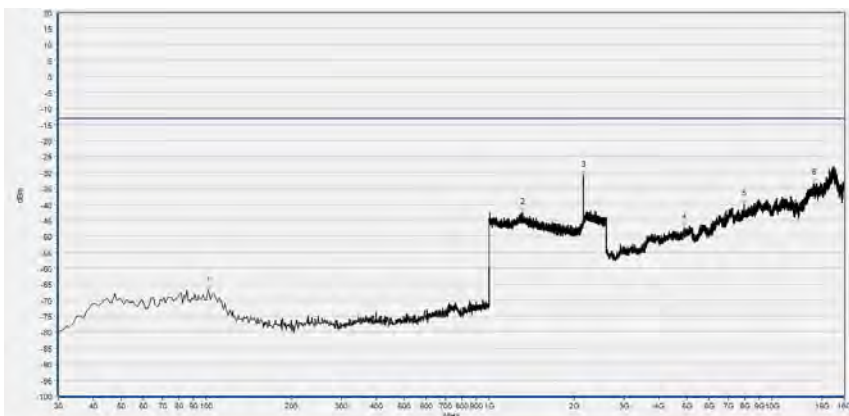
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	96.930	-66.28	-13.00	Vertical	PASS
2	1284.914	-42.27	-13.00	Vertical	PASS
3	2139.656	-29.43	-13.00	Vertical	N/A
4	5156.865	-46.06	-13.00	Vertical	PASS
5	7234.843	-40.55	-13.00	Vertical	PASS
6	16398.109	-27.80	-13.00	Vertical	PASS



WCDMA Band IV(WCDMA), High Channel



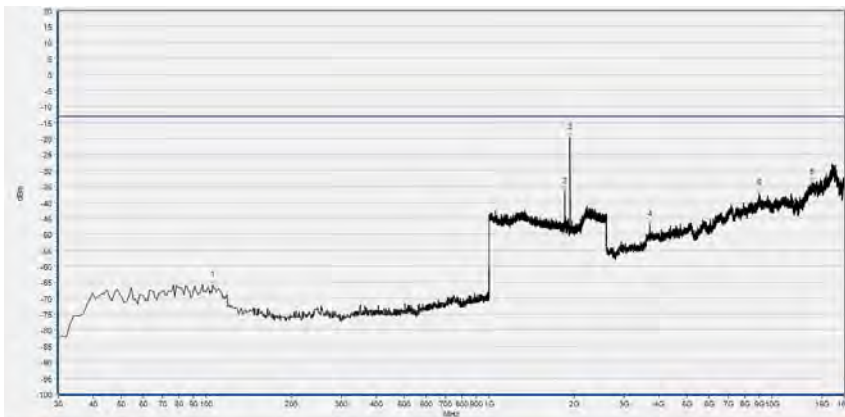
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	111.480	-66.88	-13.00	Horizontal	PASS
2	1302.841	-43.10	-13.00	Horizontal	PASS
3	2153.741	-21.42	-13.00	Horizontal	N/A
4	3507.365	-44.47	-13.00	Horizontal	PASS
5	7184.434	-40.94	-13.00	Horizontal	PASS
6	14404.146	-32.66	-13.00	Horizontal	PASS



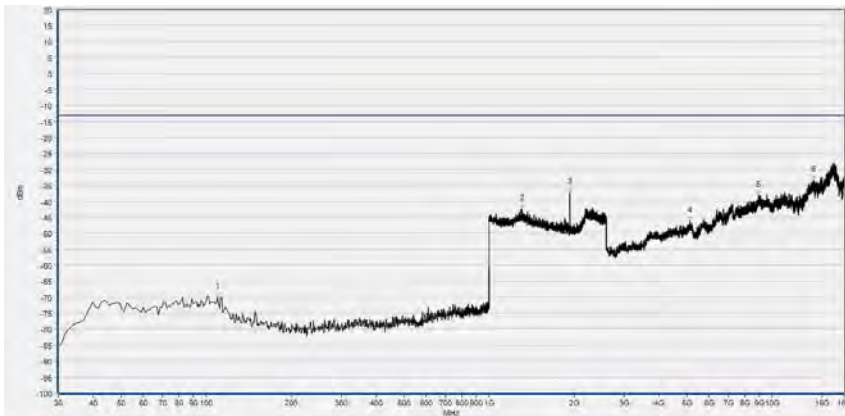
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-66.95	-13.00	Vertical	PASS
2	1311.805	-42.67	-13.00	Vertical	PASS
3	2151.821	-31.06	-13.00	Vertical	N/A
4	4879.614	-47.18	-13.00	Vertical	PASS
5	7996.581	-39.79	-13.00	Vertical	PASS
6	14090.489	-33.36	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), Low Channel



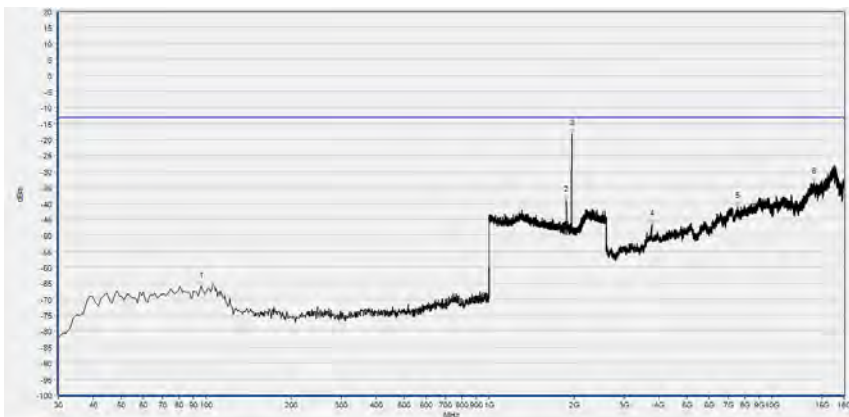
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-66.07	-13.00	Horizontal	PASS
2	1851.541	-36.67	-13.00	Horizontal	N/A
3	1933.493	-19.78	-13.00	Horizontal	N/A
4	3703.401	-47.04	-13.00	Horizontal	PASS
5	8987.961	-37.29	-13.00	Horizontal	PASS
6	13841.244	-33.86	-13.00	Horizontal	PASS



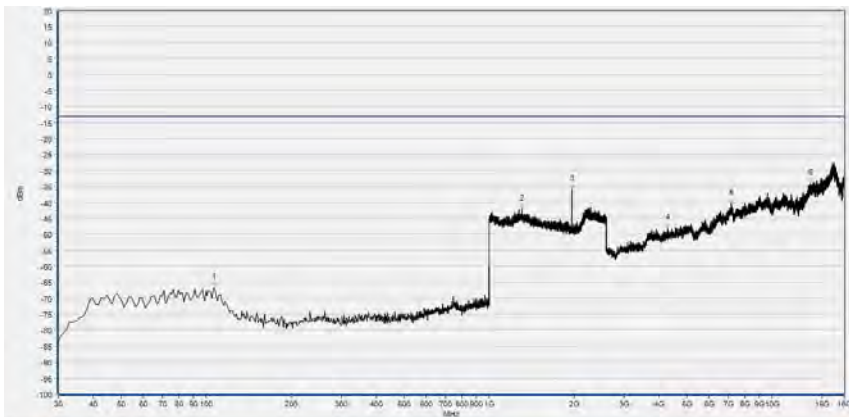
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	109.540	-70.16	-13.00	Vertical	PASS
2	1309.884	-42.45	-13.00	Vertical	PASS
3	1933.493	-37.32	-13.00	Vertical	N/A
4	5137.261	-46.04	-13.00	Vertical	PASS
5	8945.954	-38.15	-13.00	Vertical	PASS
6	13984.070	-33.30	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), Mid Channel



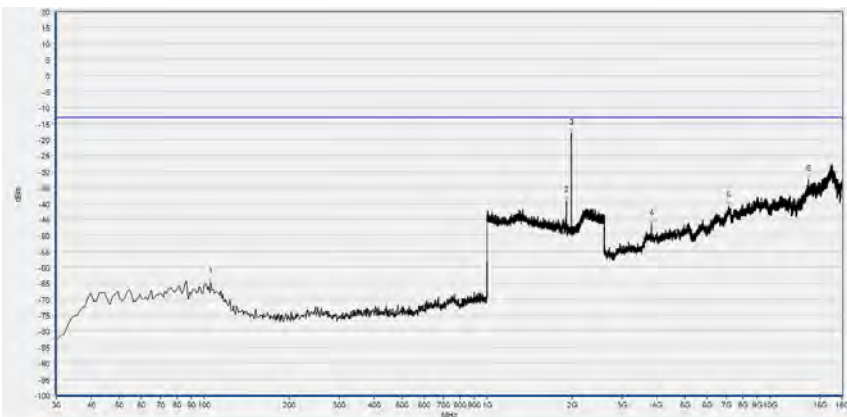
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	95.960	-66.11	-13.00	Horizontal	PASS
2	1878.431	-38.90	-13.00	Horizontal	N/A
3	1961.024	-18.12	-13.00	Horizontal	N/A
4	3756.610	-46.67	-13.00	Horizontal	PASS
5	7562.502	-41.00	-13.00	Horizontal	PASS
6	14087.689	-33.38	-13.00	Horizontal	PASS



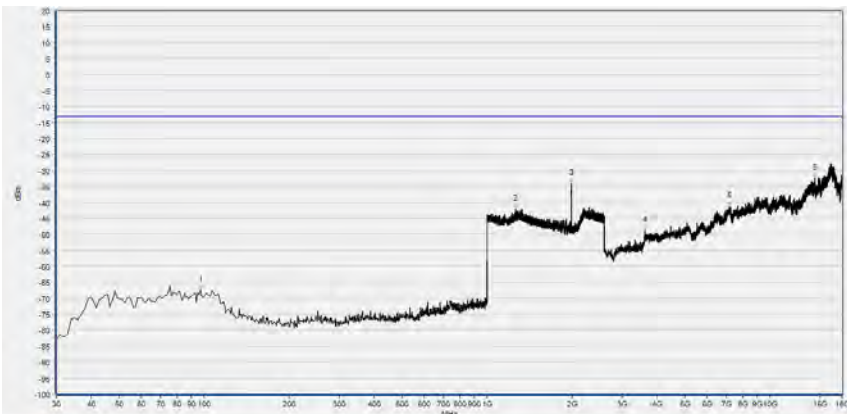
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-66.78	-13.00	Vertical	PASS
2	1305.402	-42.20	-13.00	Vertical	PASS
3	1960.384	-35.98	-13.00	Vertical	N/A
4	4277.505	-48.02	-13.00	Vertical	PASS
5	7190.035	-40.27	-13.00	Vertical	PASS
6	13715.221	-34.07	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), High Channel



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-64.65	-13.00	Horizontal	PASS
2	1908.523	-39.20	-13.00	Horizontal	N/A
3	1987.275	-17.90	-13.00	Horizontal	N/A
4	3815.421	-46.37	-13.00	Horizontal	PASS
5	7156.428	-40.89	-13.00	Horizontal	PASS
6	13704.019	-32.53	-13.00	Horizontal	PASS

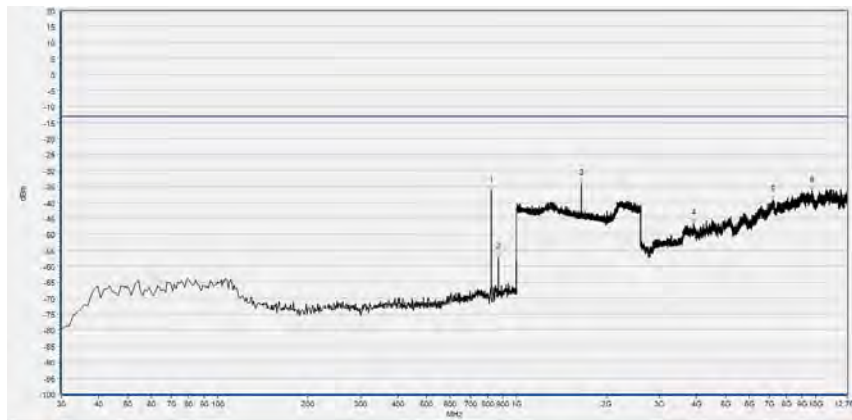


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	96.930	-67.42	-13.00	Vertical	PASS
2	1262.505	-42.12	-13.00	Vertical	PASS
3	1988.555	-34.15	-13.00	Vertical	N/A
4	3619.385	-48.88	-13.00	Vertical	PASS
5	7167.630	-41.24	-13.00	Vertical	PASS
6	14404.146	-32.55	-13.00	Vertical	PASS

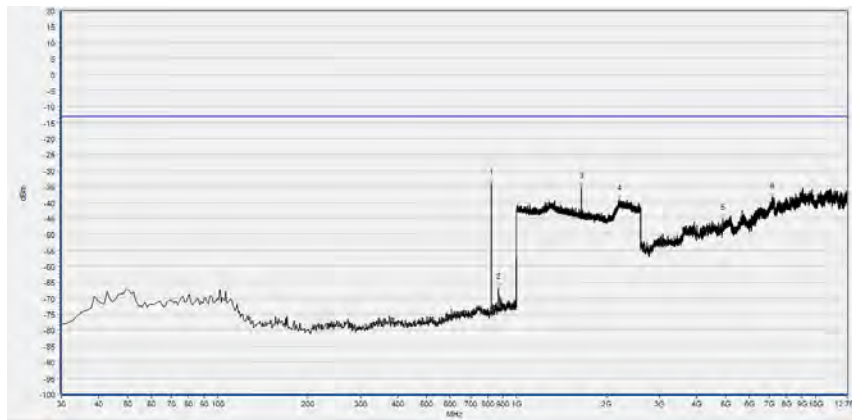


Bottom Antenna

GSM850(GSM), Low Channel



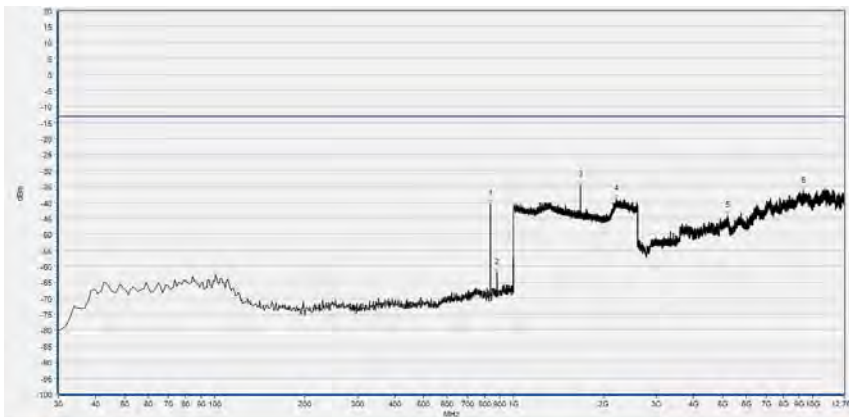
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-36.28	-13.00	Horizontal	N/A
2	869.050	-57.28	-13.00	Horizontal	N/A
3	1648.579	-34.17	-13.00	Horizontal	PASS
4	3897.590	-46.55	-13.00	Horizontal	PASS
5	7188.634	-39.31	-13.00	Horizontal	PASS
6	9739.516	-36.28	-13.00	Horizontal	PASS



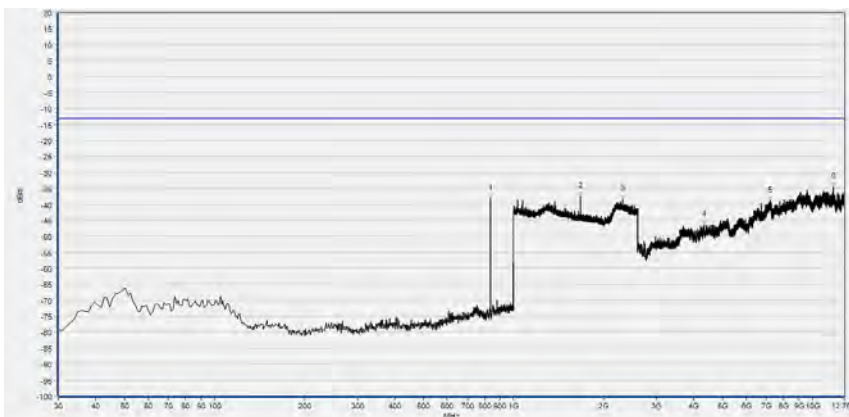
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-34.00	-13.00	Vertical	N/A
2	869.050	-66.72	-13.00	Vertical	N/A
3	1648.579	-35.28	-13.00	Vertical	PASS
4	2199.840	-39.02	-13.00	Vertical	PASS
5	4888.780	-45.00	-13.00	Vertical	PASS
6	7140.644	-38.32	-13.00	Vertical	PASS



GSM850(GSM), Mid Channel



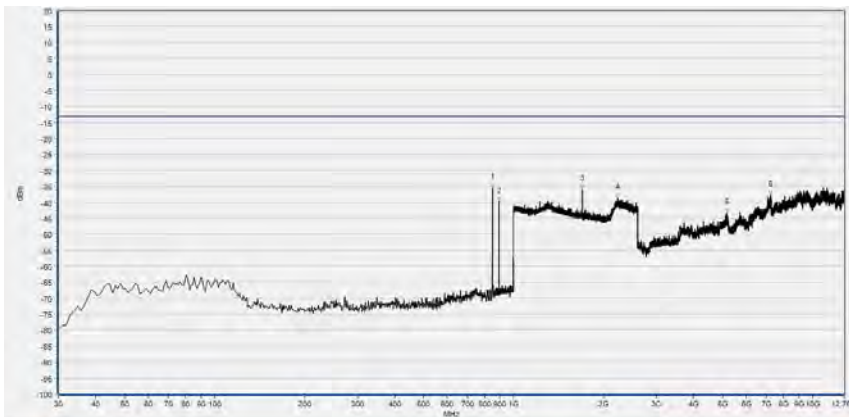
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-40.62	-13.00	Horizontal	N/A
2	881.660	-62.08	-13.00	Horizontal	N/A
3	1672.269	-34.65	-13.00	Horizontal	PASS
4	2204.962	-38.96	-13.00	Horizontal	PASS
5	5195.181	-44.05	-13.00	Horizontal	PASS
6	9335.288	-36.43	-13.00	Horizontal	PASS



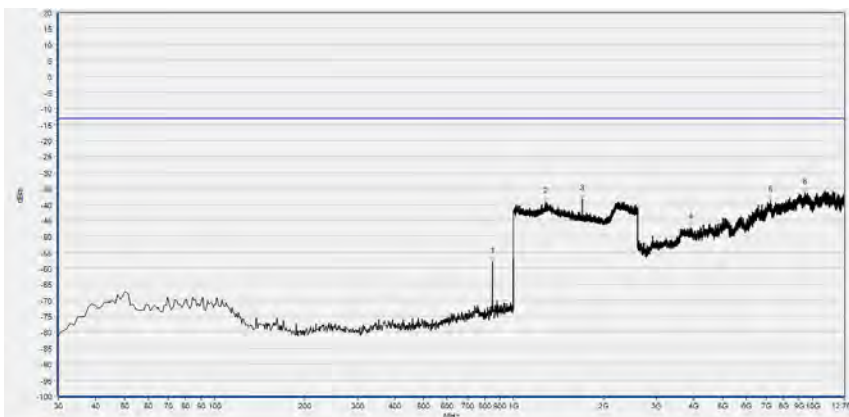
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-38.08	-13.00	Vertical	N/A
2	1672.269	-37.45	-13.00	Vertical	PASS
3	2320.848	-38.30	-13.00	Vertical	PASS
4	4329.505	-46.31	-13.00	Vertical	PASS
5	7197.863	-38.93	-13.00	Vertical	PASS
6	11727.432	-34.58	-13.00	Vertical	PASS



GSM850(GSM), High Channel



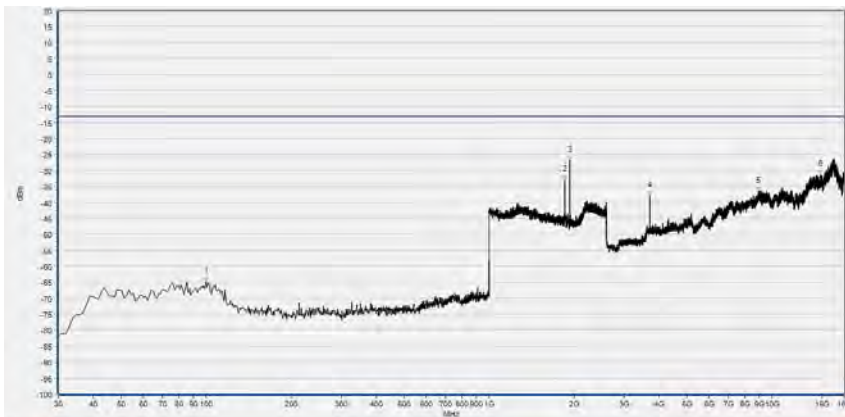
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-35.48	-13.00	Horizontal	N/A
2	893.300	-39.80	-13.00	Horizontal	N/A
3	1697.239	-35.86	-13.00	Horizontal	PASS
4	2231.212	-38.65	-13.00	Horizontal	PASS
5	5160.111	-43.23	-13.00	Horizontal	PASS
6	7238.471	-37.73	-13.00	Horizontal	PASS



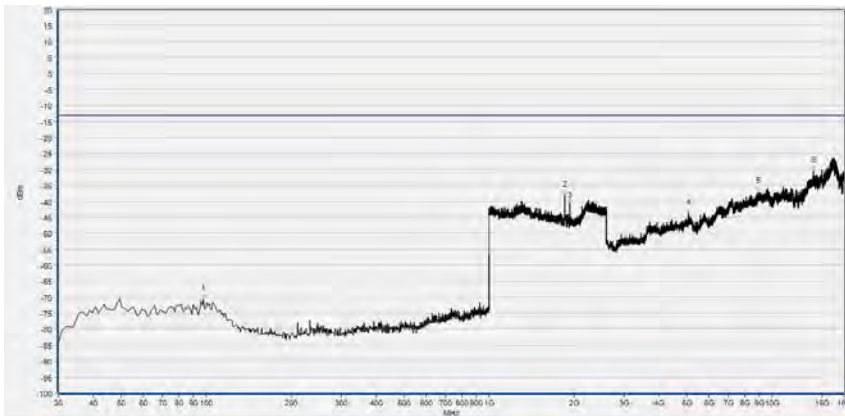
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-57.95	-13.00	Vertical	N/A
2	1279.152	-39.30	-13.00	Vertical	PASS
3	1697.239	-38.41	-13.00	Vertical	PASS
4	3916.048	-47.20	-13.00	Vertical	PASS
5	7249.545	-38.78	-13.00	Vertical	PASS
6	9410.966	-36.29	-13.00	Vertical	PASS



GSM1900(GSM), Low Channel



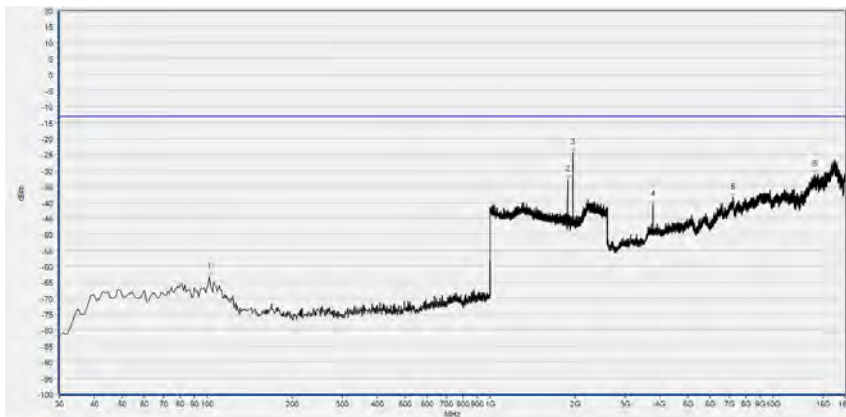
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	99.840	-64.93	-13.00	Horizontal	PASS
2	1850.260	-32.89	-13.00	Horizontal	N/A
3	1930.292	-26.88	-13.00	Horizontal	N/A
4	3700.600	-37.80	-13.00	Horizontal	PASS
5	8979.560	-36.57	-13.00	Horizontal	PASS
6	14883.033	-31.48	-13.00	Horizontal	PASS



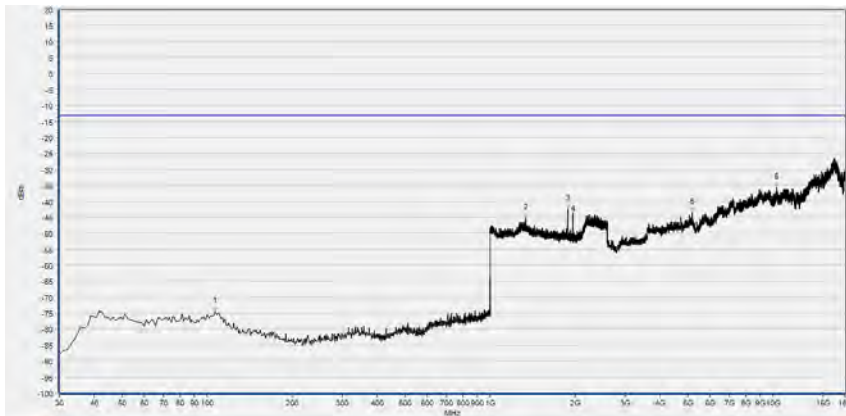
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	97.900	-70.78	-13.00	Vertical	PASS
2	1850.260	-38.17	-13.00	Vertical	N/A
3	1930.292	-40.62	-13.00	Vertical	N/A
4	5072.850	-43.78	-13.00	Vertical	PASS
5	8931.951	-37.04	-13.00	Vertical	PASS
6	13995.272	-30.57	-13.00	Vertical	PASS



GSM1900(GSM), Mid Channel



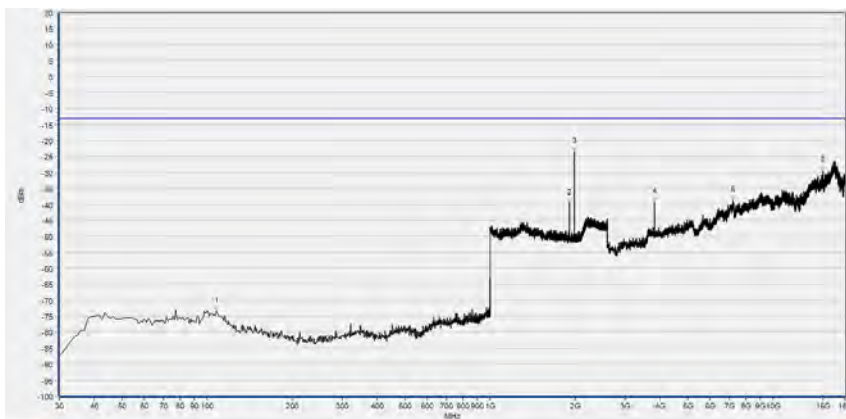
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-63.46	-13.00	Horizontal	PASS
2	1879.712	-33.07	-13.00	Horizontal	N/A
3	1959.744	-24.47	-13.00	Horizontal	N/A
4	3759.411	-40.76	-13.00	Horizontal	PASS
5	7226.441	-38.59	-13.00	Horizontal	PASS
6	14003.673	-31.50	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-74.59	-13.00	Vertical	PASS
2	1336.775	-45.22	-13.00	Vertical	PASS
3	1879.712	-42.45	-13.00	Vertical	N/A
4	1959.744	-43.65	-13.00	Vertical	N/A
5	5179.269	-43.56	-13.00	Vertical	PASS
6	10323.804	-35.72	-13.00	Vertical	PASS



GSM1900(GSM), High Channel



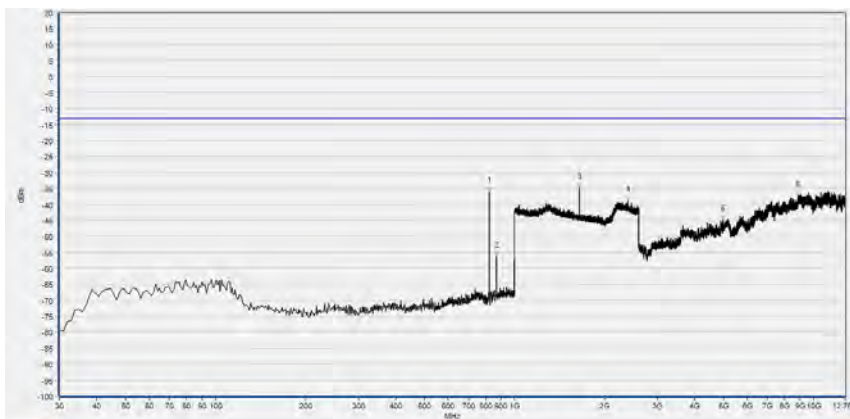
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-73.44	-13.00	Horizontal	PASS
2	1909.164	-39.72	-13.00	Horizontal	N/A
3	1989.836	-23.48	-13.00	Horizontal	N/A
4	3818.221	-39.16	-13.00	Horizontal	PASS
5	7240.444	-38.70	-13.00	Horizontal	PASS
6	15011.857	-29.70	-13.00	Horizontal	PASS



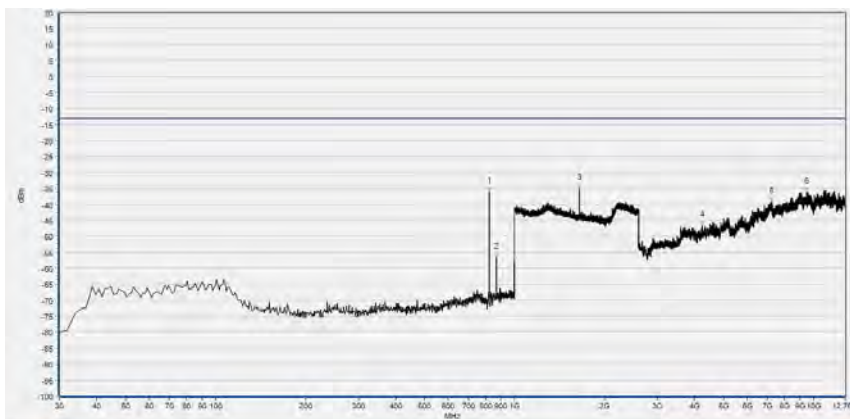
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	104.690	-74.39	-13.00	Vertical	PASS
2	1909.804	-39.21	-13.00	Vertical	N/A
3	1989.836	-40.72	-13.00	Vertical	N/A
4	5081.251	-43.50	-13.00	Vertical	PASS
5	8945.954	-36.74	-13.00	Vertical	PASS
6	13692.817	-31.88	-13.00	Vertical	PASS



GSM850(EDGE), Low Channel



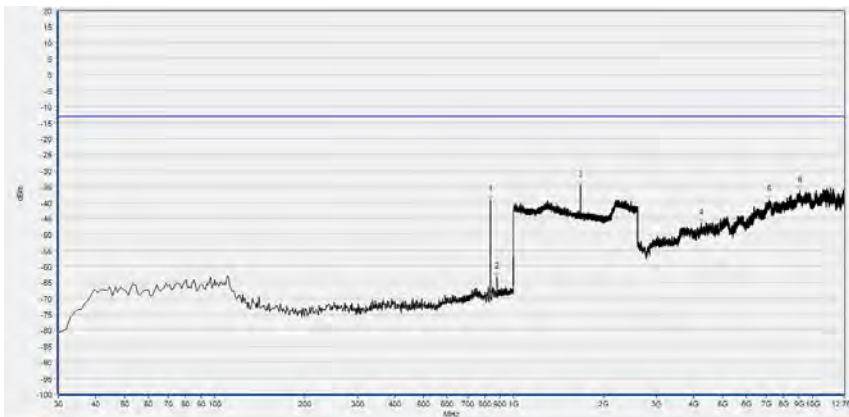
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-35.90	-13.00	Horizontal	N/A
2	869.050	-56.21	-13.00	Horizontal	N/A
3	1648.579	-34.85	-13.00	Horizontal	PASS
4	2397.039	-38.76	-13.00	Horizontal	PASS
5	4971.840	-44.79	-13.00	Horizontal	PASS
6	8859.074	-37.25	-13.00	Horizontal	PASS



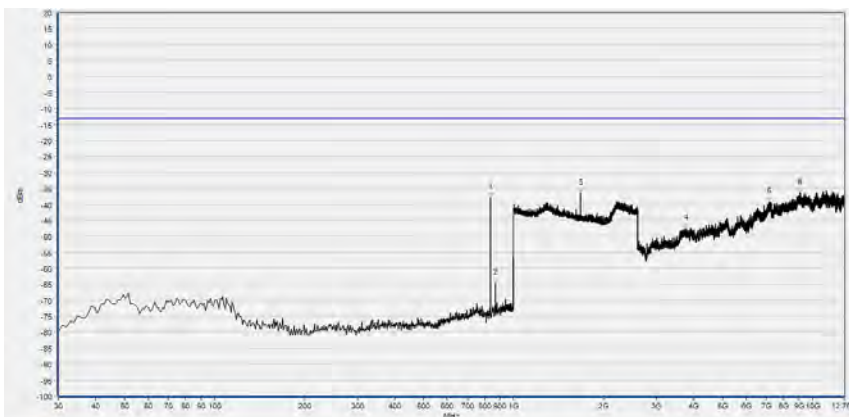
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-36.00	-13.00	Vertical	N/A
2	869.050	-56.69	-13.00	Vertical	N/A
3	1647.939	-35.05	-13.00	Vertical	PASS
4	4237.216	-46.53	-13.00	Vertical	PASS
5	7247.700	-39.33	-13.00	Vertical	PASS
6	9492.180	-36.06	-13.00	Vertical	PASS



GSM850(EDGE), Mid Channel



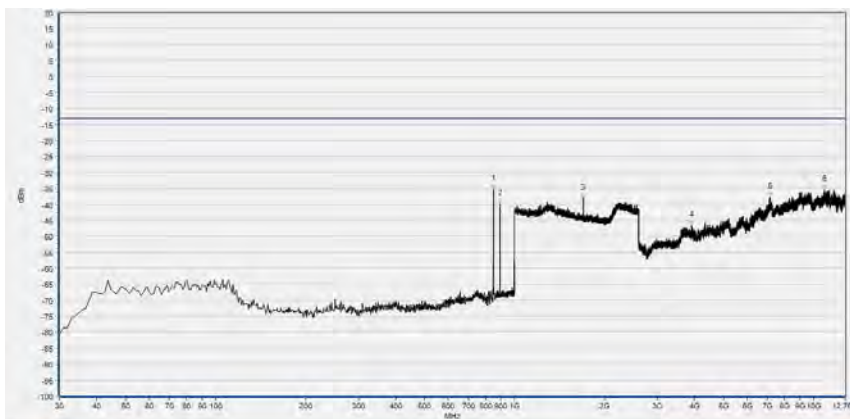
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-39.27	-13.00	Horizontal	N/A
2	881.660	-63.27	-13.00	Horizontal	N/A
3	1672.909	-34.82	-13.00	Horizontal	PASS
4	4239.062	-46.64	-13.00	Horizontal	PASS
5	7164.639	-39.13	-13.00	Horizontal	PASS
6	9069.494	-36.27	-13.00	Horizontal	PASS



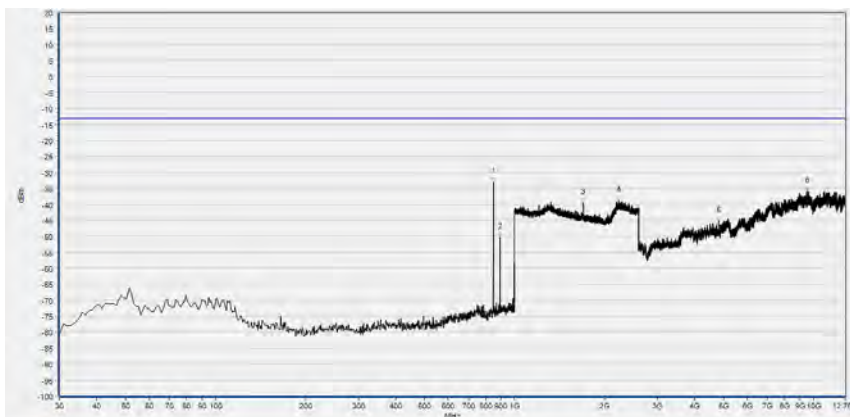
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-37.88	-13.00	Vertical	N/A
2	869.050	-64.76	-13.00	Vertical	N/A
3	1672.269	-36.51	-13.00	Vertical	PASS
4	3773.923	-47.44	-13.00	Vertical	PASS
5	7157.256	-39.24	-13.00	Vertical	PASS
6	9067.649	-36.30	-13.00	Vertical	PASS



GSM850(EDGE), High Channel



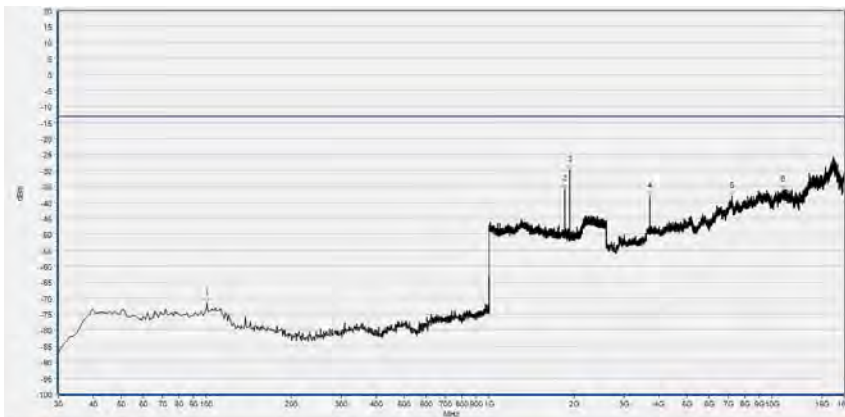
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-35.16	-13.00	Horizontal	N/A
2	893.300	-39.98	-13.00	Horizontal	N/A
3	1697.239	-38.04	-13.00	Horizontal	PASS
4	3914.203	-46.55	-13.00	Horizontal	PASS
5	7159.102	-37.56	-13.00	Horizontal	PASS
6	10850.682	-35.44	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-33.00	-13.00	Vertical	N/A
2	894.270	-50.43	-13.00	Vertical	N/A
3	1697.239	-39.47	-13.00	Vertical	PASS
4	2232.493	-38.79	-13.00	Vertical	PASS
5	4805.719	-45.33	-13.00	Vertical	PASS
6	9525.405	-35.96	-13.00	Vertical	PASS



GSM1900(EDGE), Low Channel



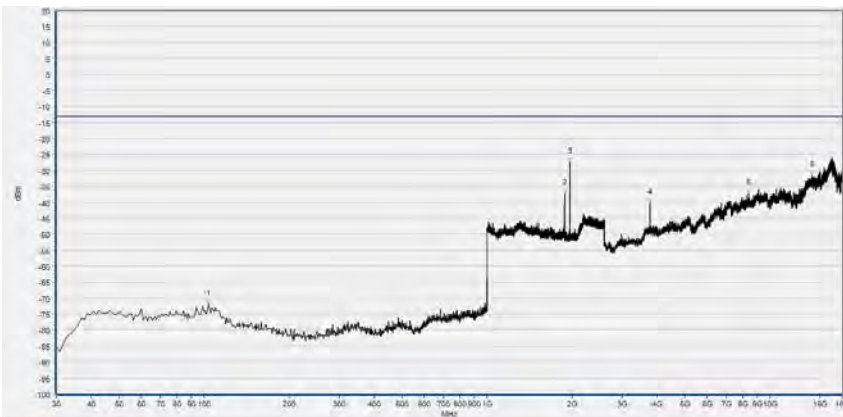
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	100.810	-71.71	-13.00	Horizontal	PASS
2	1850.260	-35.85	-13.00	Horizontal	N/A
3	1930.292	-29.84	-13.00	Horizontal	N/A
4	3700.600	-37.99	-13.00	Horizontal	PASS
5	7234.843	-38.03	-13.00	Horizontal	PASS
6	10937.116	-36.14	-13.00	Horizontal	PASS



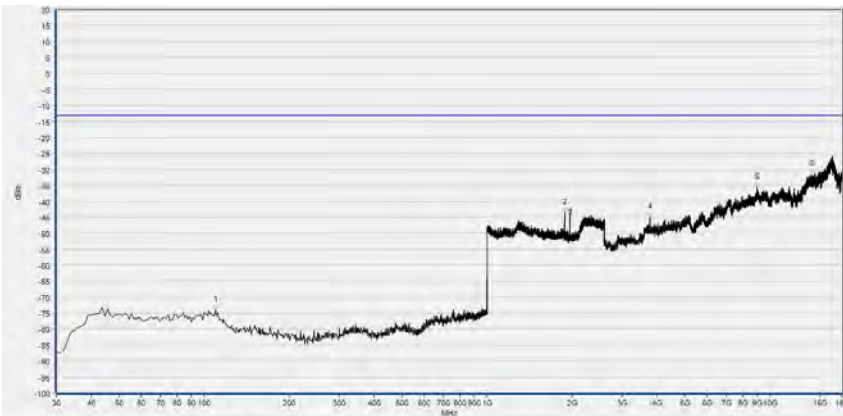
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-74.18	-13.00	Vertical	PASS
2	1850.260	-40.05	-13.00	Vertical	N/A
3	1930.292	-44.85	-13.00	Vertical	N/A
4	3700.600	-45.08	-13.00	Vertical	PASS
5	7198.436	-39.43	-13.00	Vertical	PASS
6	14266.921	-30.86	-13.00	Vertical	PASS



GSM1900(EDGE), Mid Channel



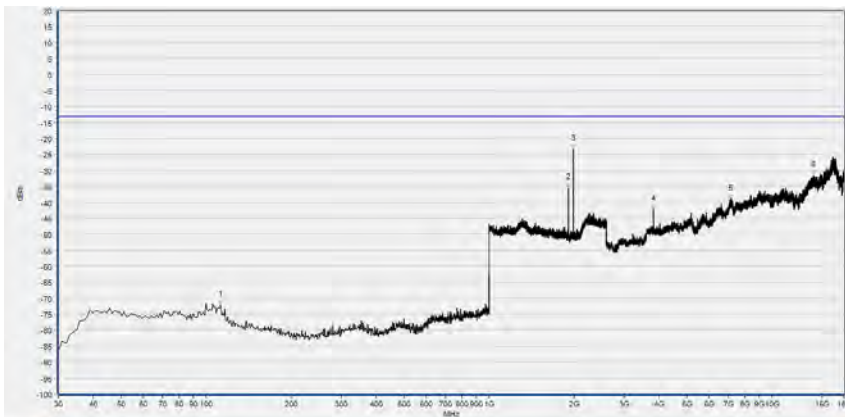
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	103.720	-71.83	-13.00	Horizontal	PASS
2	1879.712	-37.20	-13.00	Horizontal	N/A
3	1959.744	-27.32	-13.00	Horizontal	N/A
4	3759.411	-40.12	-13.00	Horizontal	PASS
5	8397.054	-37.16	-13.00	Horizontal	PASS
6	14076.487	-31.53	-13.00	Horizontal	PASS



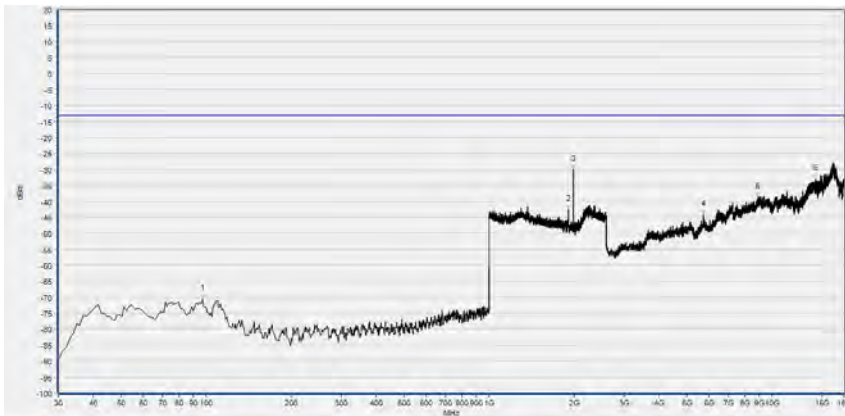
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	109.540	-74.00	-13.00	Vertical	PASS
2	1879.712	-43.46	-13.00	Vertical	N/A
3	1959.744	-43.61	-13.00	Vertical	N/A
4	3759.411	-45.09	-13.00	Vertical	PASS
5	8993.562	-35.57	-13.00	Vertical	PASS
6	13981.269	-31.59	-13.00	Vertical	PASS



GSM1900(EDGD), High Channel



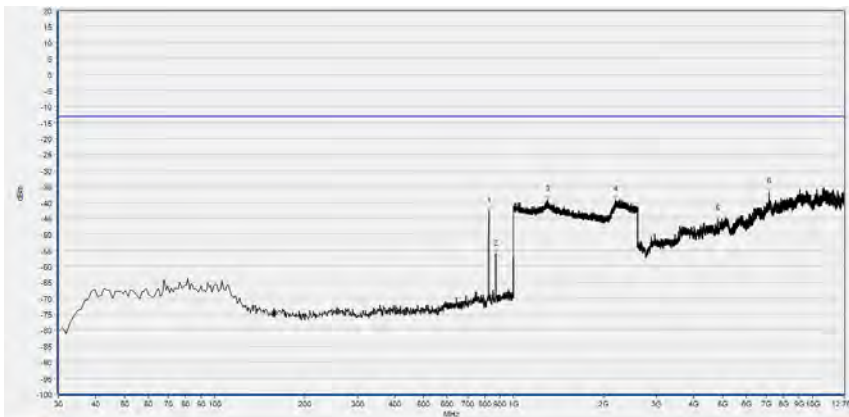
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	112.450	-72.11	-13.00	Horizontal	PASS
2	1909.804	-35.41	-13.00	Horizontal	N/A
3	1989.836	-23.30	-13.00	Horizontal	N/A
4	3818.221	-42.09	-13.00	Horizontal	PASS
5	7131.224	-38.99	-13.00	Horizontal	PASS
6	14003.673	-31.68	-13.00	Horizontal	PASS



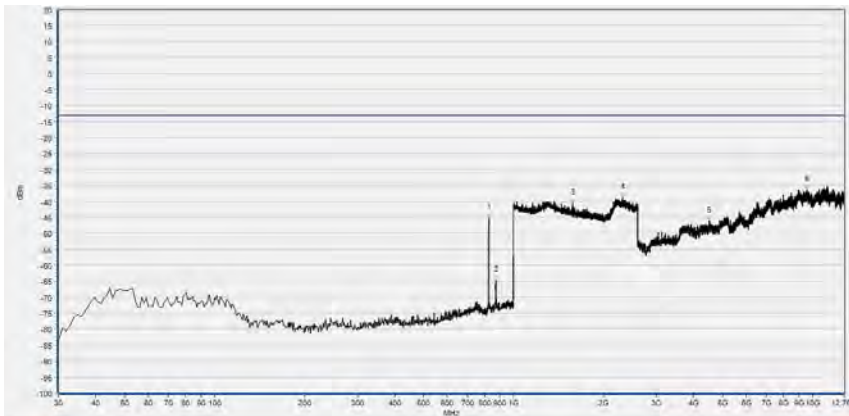
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	97.900	-71.83	-13.00	Vertical	PASS
2	1909.804	-38.66	-13.00	Vertical	N/A
3	1989.836	-39.61	-13.00	Vertical	N/A
4	5176.468	-44.46	-13.00	Vertical	PASS
5	8422.259	-36.49	-13.00	Vertical	PASS
6	13894.454	-31.15	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), Low Channel



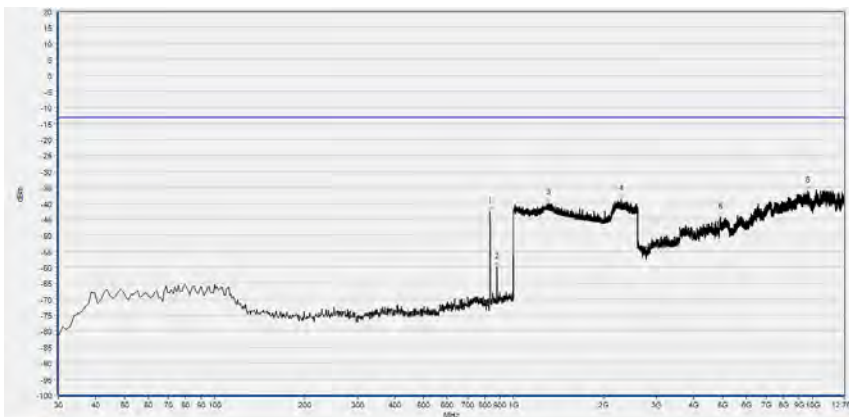
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-42.78	-13.00	Horizontal	N/A
2	870.990	-56.11	-13.00	Horizontal	N/A
3	1297.079	-39.11	-13.00	Horizontal	PASS
4	2188.315	-39.21	-13.00	Horizontal	PASS
5	4802.028	-45.16	-13.00	Horizontal	PASS
6	7170.176	-36.80	-13.00	Horizontal	PASS



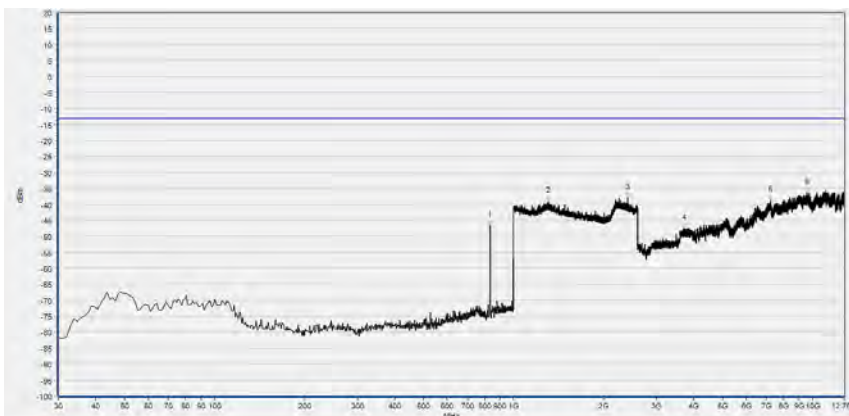
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-45.22	-13.00	Vertical	N/A
2	872.930	-64.69	-13.00	Vertical	N/A
3	1573.669	-40.59	-13.00	Vertical	PASS
4	2318.287	-38.83	-13.00	Vertical	PASS
5	4508.547	-46.12	-13.00	Vertical	PASS
6	9601.082	-36.20	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), Mid Channel



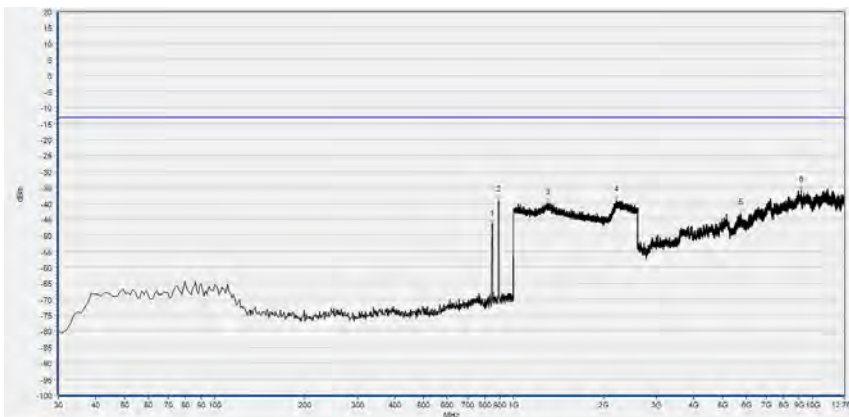
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	834.130	-42.60	-13.00	Horizontal	N/A
2	878.750	-59.90	-13.00	Horizontal	N/A
3	1305.402	-39.89	-13.00	Horizontal	PASS
4	2289.476	-38.85	-13.00	Horizontal	PASS
5	4910.929	-44.29	-13.00	Horizontal	PASS
6	9626.923	-36.05	-13.00	Horizontal	PASS



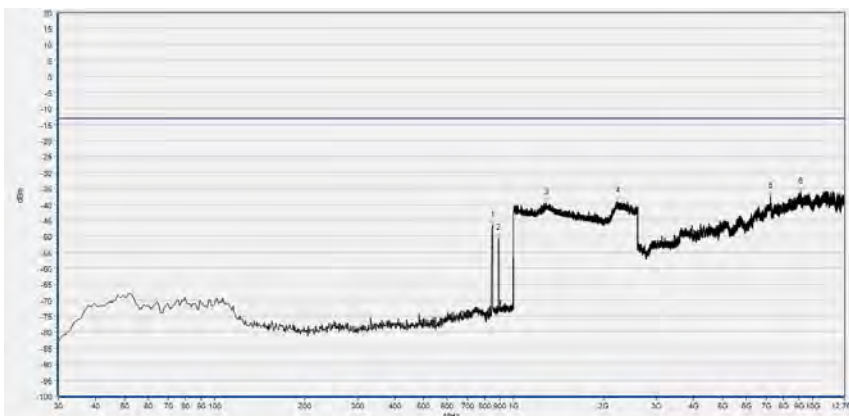
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	834.130	-46.55	-13.00	Vertical	N/A
2	1304.762	-39.07	-13.00	Vertical	PASS
3	2407.283	-37.82	-13.00	Vertical	PASS
4	3720.395	-47.39	-13.00	Vertical	PASS
5	7247.700	-38.76	-13.00	Vertical	PASS
6	9582.624	-36.27	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), High Channel



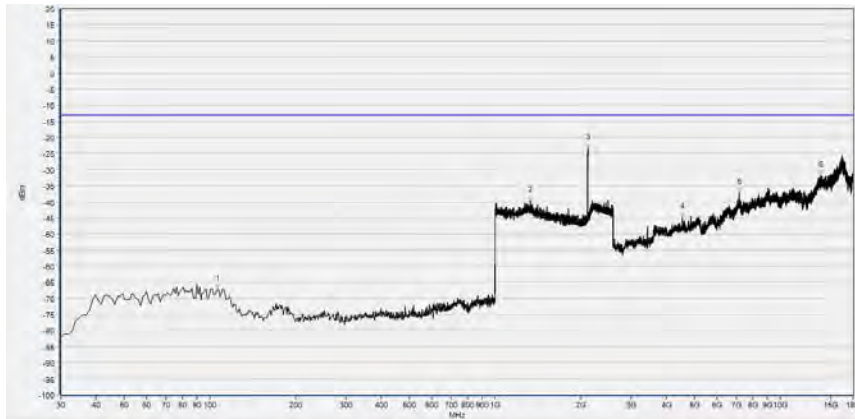
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	847.710	-46.54	-13.00	Horizontal	N/A
2	891.360	-38.90	-13.00	Horizontal	N/A
3	1298.359	-39.78	-13.00	Horizontal	PASS
4	2209.444	-39.07	-13.00	Horizontal	PASS
5	5732.306	-43.08	-13.00	Horizontal	PASS
6	9159.938	-35.96	-13.00	Horizontal	PASS



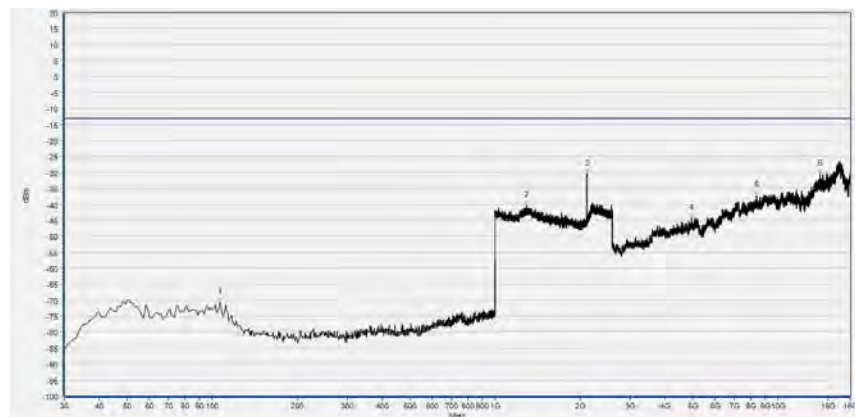
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-46.50	-13.00	Vertical	N/A
2	891.360	-50.65	-13.00	Vertical	N/A
3	1286.835	-39.44	-13.00	Vertical	PASS
4	2229.292	-38.93	-13.00	Vertical	PASS
5	7247.700	-37.41	-13.00	Vertical	PASS
6	9135.943	-36.05	-13.00	Vertical	PASS



WCDMA Band IV(WCDMA), Low Channel



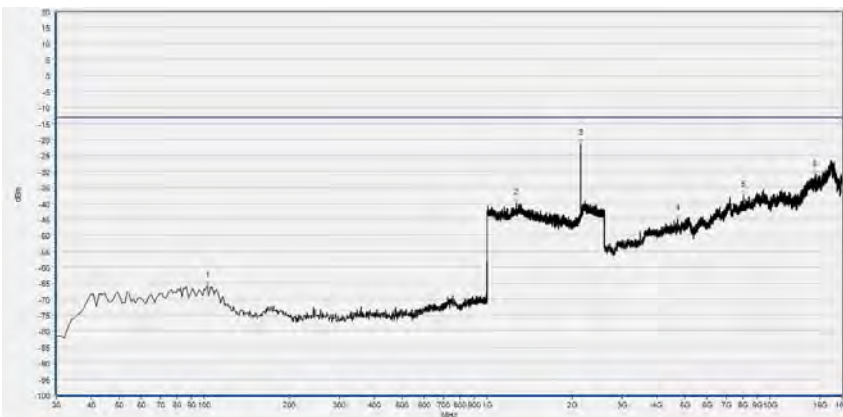
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-67.21	-13.00	Horizontal	PASS
2	1331.012	-39.70	-13.00	Horizontal	PASS
3	2113.405	-23.42	-13.00	Horizontal	N/A
4	4529.551	-44.89	-13.00	Horizontal	PASS
5	7192.835	-37.20	-13.00	Horizontal	PASS
6	13858.047	-31.79	-13.00	Horizontal	PASS



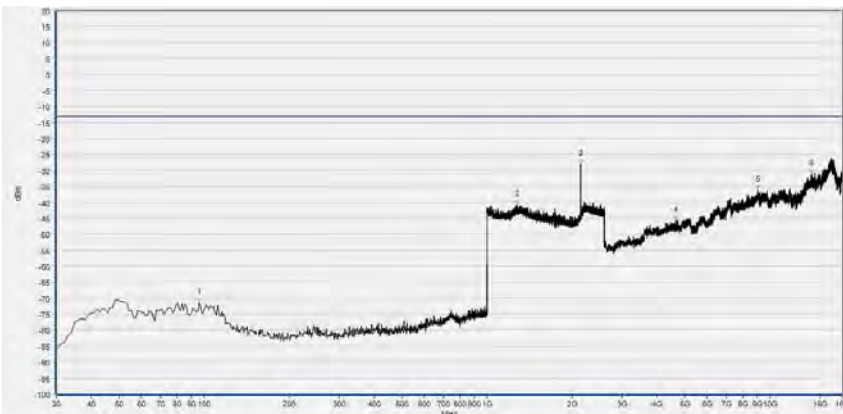
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-70.80	-13.00	Vertical	PASS
2	1288.115	-40.41	-13.00	Vertical	PASS
3	2112.765	-30.55	-13.00	Vertical	N/A
4	4958.029	-44.26	-13.00	Vertical	PASS
5	8388.652	-37.10	-13.00	Vertical	PASS
6	14101.691	-30.47	-13.00	Vertical	PASS



WCDMA Band IV(WCDMA), Mid Channel



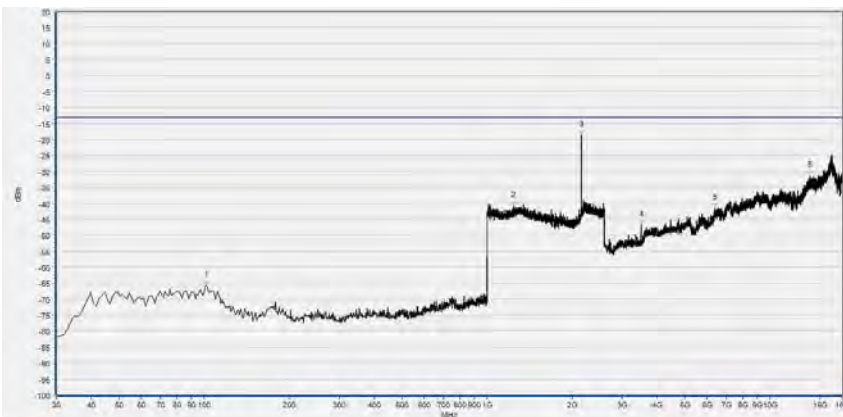
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	102.750	-65.90	-13.00	Horizontal	PASS
2	1266.987	-39.83	-13.00	Horizontal	PASS
3	2139.016	-21.35	-13.00	Horizontal	N/A
4	4725.586	-44.91	-13.00	Horizontal	PASS
5	8086.197	-37.52	-13.00	Horizontal	PASS
6	14415.348	-31.22	-13.00	Horizontal	PASS



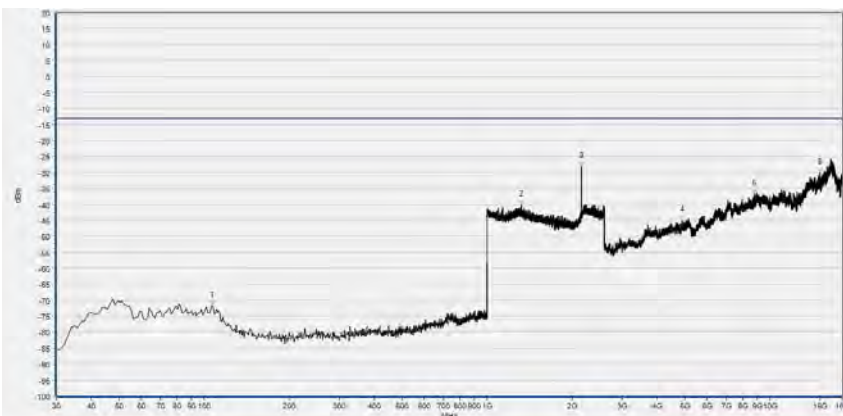
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	95.960	-71.44	-13.00	Vertical	PASS
2	1280.432	-40.84	-13.00	Vertical	PASS
3	2140.936	-28.13	-13.00	Vertical	N/A
4	4635.970	-45.69	-13.00	Vertical	PASS
5	9041.171	-36.15	-13.00	Vertical	PASS
6	14017.676	-31.14	-13.00	Vertical	PASS



WCDMA Band IV(WCDMA), High Channel



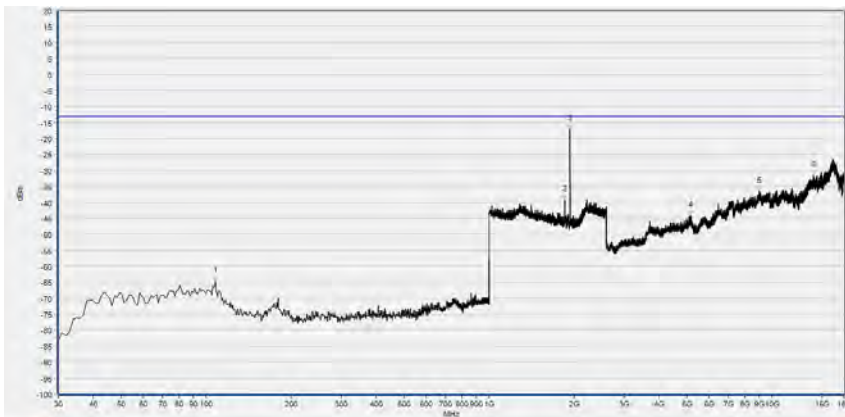
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-65.59	-13.00	Horizontal	PASS
2	1240.736	-40.69	-13.00	Horizontal	PASS
3	2153.741	-18.77	-13.00	Horizontal	N/A
4	3504.564	-46.91	-13.00	Horizontal	PASS
5	6386.288	-41.49	-13.00	Horizontal	PASS
6	13852.446	-31.50	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-71.68	-13.00	Vertical	PASS
2	1319.488	-40.15	-13.00	Vertical	PASS
3	2152.461	-28.05	-13.00	Vertical	N/A
4	4893.617	-44.94	-13.00	Vertical	PASS
5	8777.923	-36.86	-13.00	Vertical	PASS
6	15000.655	-30.11	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), Low Channel



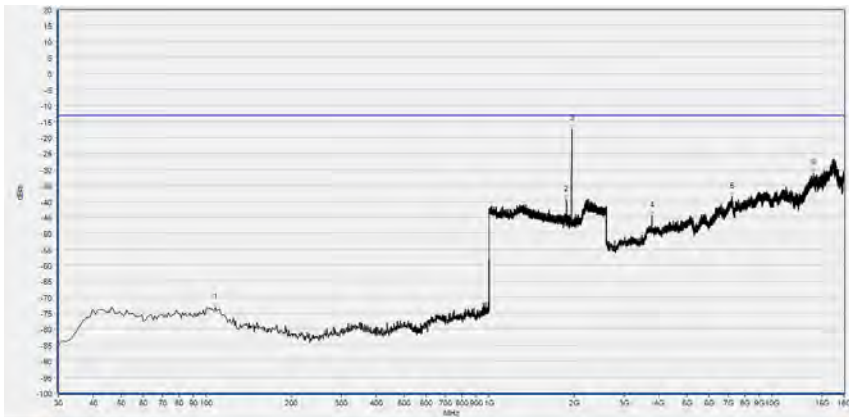
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-64.63	-13.00	Horizontal	PASS
2	1852.821	-39.32	-13.00	Horizontal	N/A
3	1933.493	-17.18	-13.00	Horizontal	N/A
4	5148.463	-44.22	-13.00	Horizontal	PASS
5	8999.163	-36.63	-13.00	Horizontal	PASS
6	14042.881	-31.59	-13.00	Horizontal	PASS



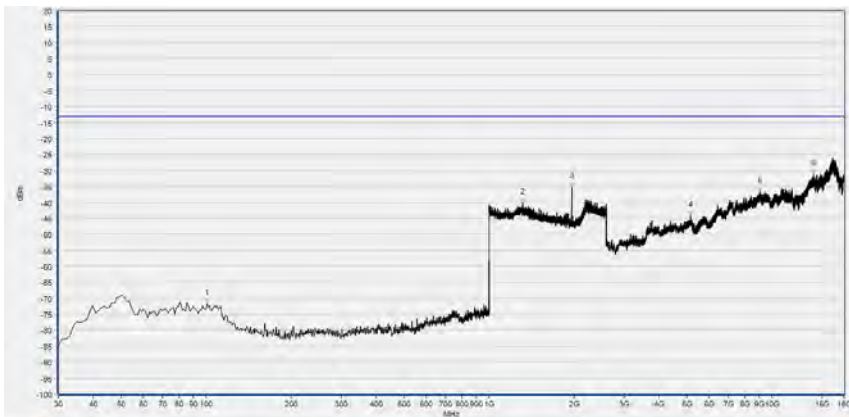
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	103.720	-72.72	-13.00	Vertical	PASS
2	1851.541	-41.28	-13.00	Vertical	N/A
3	1932.213	-38.64	-13.00	Vertical	N/A
4	5109.256	-43.80	-13.00	Vertical	PASS
5	9125.186	-36.42	-13.00	Vertical	PASS
6	14432.151	-31.23	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), Mid Channel



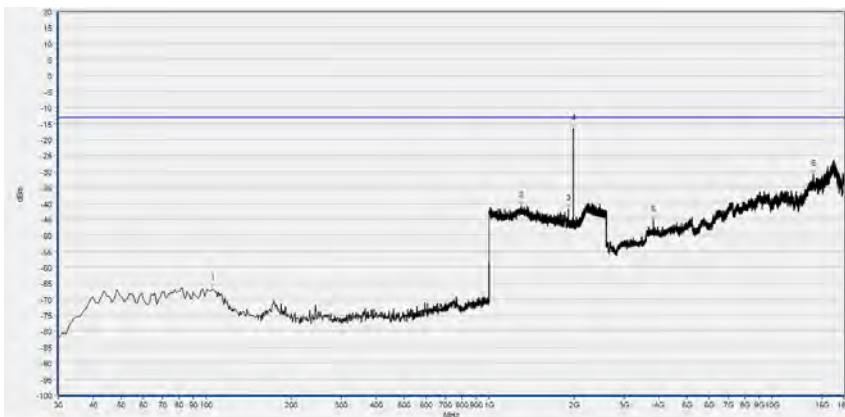
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-73.28	-13.00	Horizontal	PASS
2	1878.431	-39.48	-13.00	Horizontal	N/A
3	1961.024	-17.43	-13.00	Horizontal	N/A
4	3762.211	-44.59	-13.00	Horizontal	PASS
5	7243.244	-38.63	-13.00	Horizontal	PASS
6	14020.476	-31.20	-13.00	Horizontal	PASS



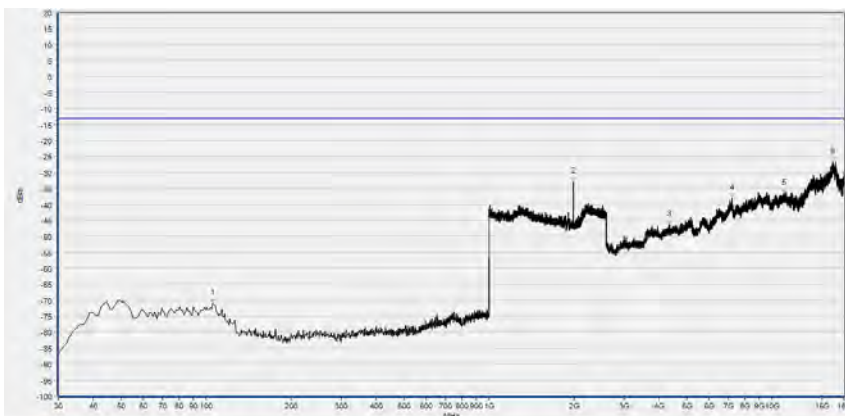
No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	100.810	-71.62	-13.00	Vertical	PASS
2	1318.207	-40.18	-13.00	Vertical	PASS
3	1959.744	-35.17	-13.00	Vertical	N/A
4	5156.865	-44.12	-13.00	Vertical	PASS
5	9088.780	-36.71	-13.00	Vertical	PASS
6	14014.875	-31.28	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), High Channel



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-66.66	-13.00	Horizontal	PASS
2	1297.719	-40.85	-13.00	Horizontal	PASS
3	1907.883	-41.78	-13.00	Horizontal	N/A
4	1987.275	-16.76	-13.00	Horizontal	N/A
5	3812.620	-45.21	-13.00	Horizontal	PASS
6	13986.870	-30.90	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-70.99	-13.00	Vertical	PASS
2	1987.275	-33.07	-13.00	Vertical	N/A
3	4327.914	-46.44	-13.00	Vertical	PASS
4	7234.843	-38.04	-13.00	Vertical	PASS
5	11051.937	-36.43	-13.00	Vertical	PASS
6	16445.717	-26.73	-13.00	Vertical	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 Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Power Splitter	NW521	1506A	Weinschel	N/A	N/A
Attenuator 1	(N/A.)	10dB	Resnet	N/A	N/A
Attenuator 2	(N/A.)	3dB	Resnet	N/A	N/A
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2021.07.26	2022.07.25
System Simulator	6200995016	MT8820C	Anritsu	2021.10.21	2022.10.20
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	20171112102	HZ-2019	Dongguan Lixian Instrument Technology Co., Ltd	2021.10.20	2022.10.19
Computer	T430i	Think Pad	Lenovo	N/A	N/A

4.2 List of Software Used

Description	Manufacturer	Software Version
Morlab FCC Test System	MORLAB	V2.8
MORLAB EMCR V1.2	MORLAB	V1.0



**4.3 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2021.10.21	2022.10.20
Receiver	MY54130016	N9038A	Agilent	2021.07.16	2022.07.15
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Coaxial cable (N male) (9kHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L3203	Tonscend	2021.07.16	2022.07.15
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2021.07.16	2022.07.15
26-40GHz pre-Amplifier	56774	S40M400L4002	Tonscend	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-GSM 850	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-GSM 1900	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV-W Band V	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV-W Band II	Wainwright	2021.07.16	2022.07.15





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Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Notch Filter	N/A	WRCGV-W Band IV	Wainwright	2021.07.16	2022.07.15
Anechoic Chamber	N/A	9m*6m*6m	CRT	2019.07.13	2022.07.12

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