TEST REPORT

APPLICANT	:	Telecell Mobile (H.K) Ltd.
PRODUCT NAME	:	LTE Smartphone
MODEL NAME	:	L5510
BRAND NAME	:	FIGO
FCC ID	:	2ADX3L5510
STANDARD(S)	:	47 CFR Part 2 47 CFR Part 22 Subpart H 47 CFR Part 24 Subpart E
RECEIPT DATE	:	2024-09-27
TEST DATE	:	2024-10-04 to 2024-11-14
ISSUE DATE	:	2024-12-02

Edited by: Zeng Xiaoying (Rapporteur)

Approved by: Shen Junsheng (Supervisor)

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DIRECTORY

Change History		
Version	Date	Reason for change
1.0	2024-12-02	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Telecell Mobile (H.K) Ltd.
Applicant Address:	RM 801 Metro Centre II, 21 Lam Hing Street. Kowloon Bay. HK
Manufacturer:	N/A
Manufacturer Address:	N/A

1.2. Equipment Under Test (EUT) Description

Product Name:	LTE Smartphone	
Sample No.:	1#, 2#	
Hardware Version:	20240622	
Software Version:	FIGO_FIERCE_L5510_v1.0_20241115	
Modulation Type:	GSM/GPRS Mode with GMSK Modulation EDGE Mode with 8PSK Modulation WCDMA Mode with QPSK Modulation HSDPA 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
	WCDMA Band II	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
Antenna Type:	FPC Antenna	
Antenna Gain:	GSM 850:	-2.92dBi
	GSM1900:	1.25dBi
	WCDMA Band V:	-2.92dBi
	WCDMA Band II:	1.25dBi
Accessory Information:	Battery	
	Brand Name:	CXD

	Model No.:	CXD1265
	Serial No.:	N/A
	Capacity:	2500mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.425V
	Manufacturer:	Shenzhen Changxingda New Energy Co., Ltd
	AC Adapter	
	Brand Name:	Baochangtong
	Model No.:	BCT050100-127U
	Serial No.:	N/A
	Rated Output:	5V⎓1A
	Rated Input:	100-240V~50/60Hz, 0.3A
	Manufacturer:	Shenzhen Baochangtong Technology 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<=n<=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<=n<=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<=n<=4233; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4182(836.4MHz) and 4233 (846.6MHz).

Note 4: The transmitter (Tx) frequency arrangement of the WCDMA Band II used by the EUT can be represented with the formula F(n)=1852.4+0.2*(n-9262), 9262<=n<=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 5: 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 II;

Note 6: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

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

Test Mode	Maximum E.R.P./E.I.R.P. (W)	Emission Designator
GSM850(GSM)	0.492	243KGXW
GSM850(EDGE)	0.163	246KGXW
GSM1900(GSM)	0.897	247KGXW
GSM1900(EDGE)	0.448	244KGXW
WCDMA Band V	0.052	4M21F9W
WCDMA Band II	0.181	4M20F9W

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	Method Determination/ Remark
1	2.1046	Conducted RF Output Power	Nov. 14, 2024	Zheng Jianhua	PASS	No deviation
2	24.232(d)	Peak -Average Ratio	Oct. 16, 2024	Gan Jing	PASS	No deviation
3	2.1049	Occupied Bandwidth	Oct. 16, 2024	Gan Jing	PASS	No deviation
4	2.1055, 22.355, 24.235,	Frequency Stability	Nov. 12, 2024	Gan Jing	PASS	No deviation
5	2.1051, 22.917(a), 24.238(a),	Conducted Out of Band Emissions	Oct. 16, 2024	Gan Jing	PASS	No deviation
6	2.1051, 22.917(a), 24.238(a),	Band Edge	Oct. 16, 2024	Gan Jing	PASS	No deviation
7	22.913(a), 24.232(c)	Transmitter Radiated Power (E.I.P.R./E.R.P.)	Nov. 14, 2024	Gan Jing	PASS	No deviation
8	2.1051, 22.917(a), 24.238(a),	Radiated Out of Band Emissions	Oct. 04&05, 2024	Gao Jianrou	PASS	No deviation

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: 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 3:** 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 Requirements

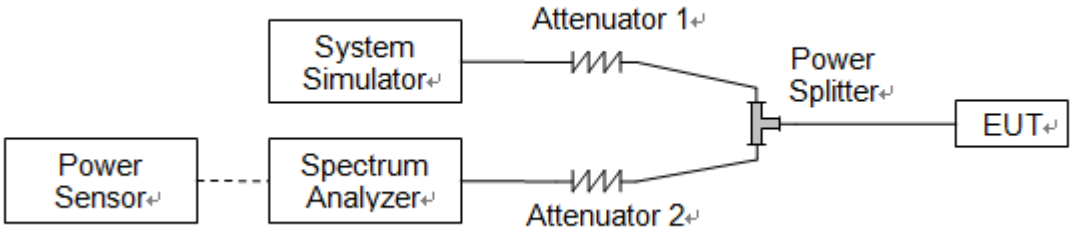
2.1. Conducted RF Output Power

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	31.82	31.96	31.88
GPRS 1 Tx slot	31.86	31.99	31.90
GPRS 2 Tx slots	31.08	31.25	31.15
GPRS 3 Tx slots	29.20	29.32	29.21
GPRS 4 Tx slots	28.08	28.15	28.07
EDGE 1 Tx slot	27.01	27.19	27.03
EDGE 2 Tx slots	26.03	26.14	26.06
EDGE 3 Tx slots	24.11	24.20	24.14
EDGE 4 Tx slots	23.06	23.11	23.08

GSM1900	Average Power (dBm)		
TX Channel	**512**	**661**	**810**
Frequency (MHz)	**1850.2**	**1880**	**1909.8**
GSM 1 Tx slot	28.25	28.21	28.05
GPRS 1 Tx slot	28.28	28.23	28.08
GPRS 2 Tx slots	27.50	27.44	27.38
GPRS 3 Tx slots	25.71	25.65	25.47
GPRS 4 Tx slots	24.58	24.52	24.46
EDGE 1 Tx slot	25.26	25.16	25.04
EDGE 2 Tx slots	23.93	23.84	23.76
EDGE 3 Tx slots	21.96	21.82	21.75
EDGE 4 Tx slots	20.41	20.33	20.30

WCDMA Band V	Average Power (dBm)		
TX Channel	**4132**	**4182**	**4233**
Frequency (MHz)	**826.4**	**836.4**	**846.6**
RMC 12.2Kbps	22.24	22.20	22.19
HSDPA Subtest-1	21.22	21.19	21.16
HSDPA Subtest-2	21.20	21.16	21.13
HSDPA Subtest-3	20.75	20.73	20.70
HSDPA Subtest-4	20.72	20.70	20.69

WCDMA Band II	Average Power (dBm)		
TX Channel	**9262**	**9400**	**9538**
Frequency (MHz)	**1852.4**	**1880.0**	**1907.6**
RMC 12.2Kbps	21.32	21.26	21.28
HSDPA Subtest-1	20.32	20.30	20.26
HSDPA Subtest-2	20.27	20.26	20.24
HSDPA Subtest-3	19.81	19.79	19.77
HSDPA Subtest-4	19.80	19.77	19.74

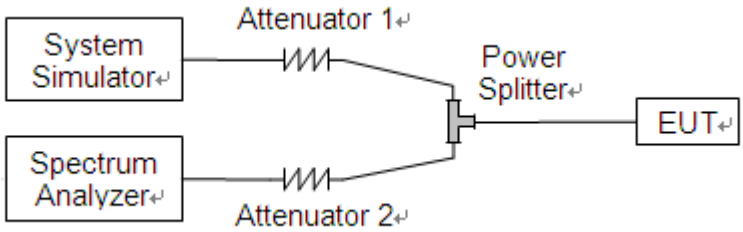
2.2. Peak to Average Ratio

2.2.1.Requirement

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

2.2.2.Test Description

Test Setup:



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

2.2.3.Test procedure

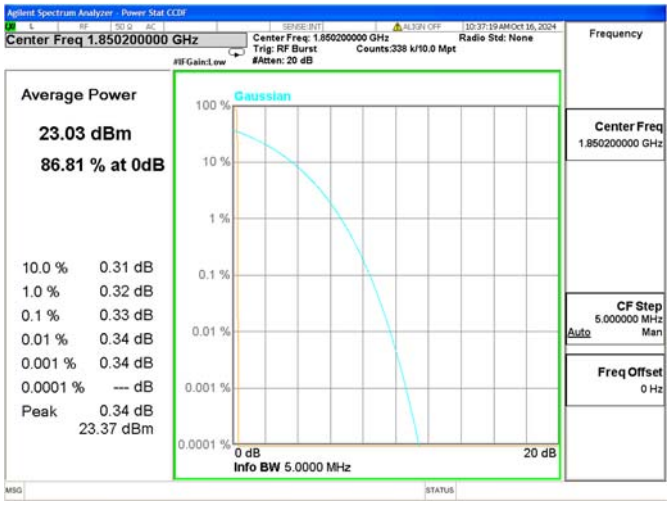
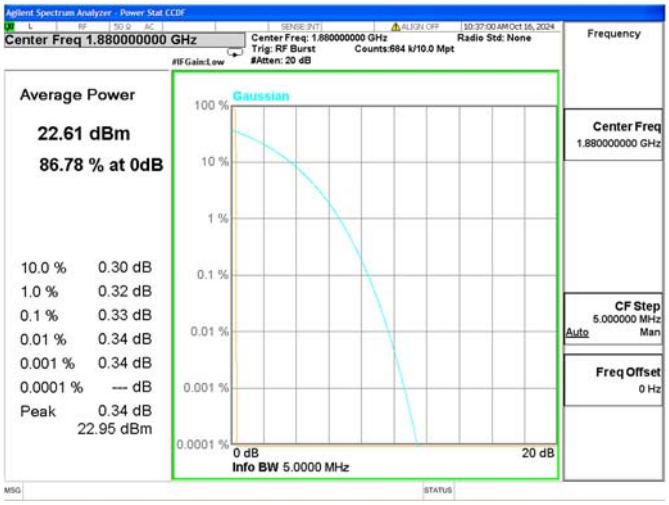
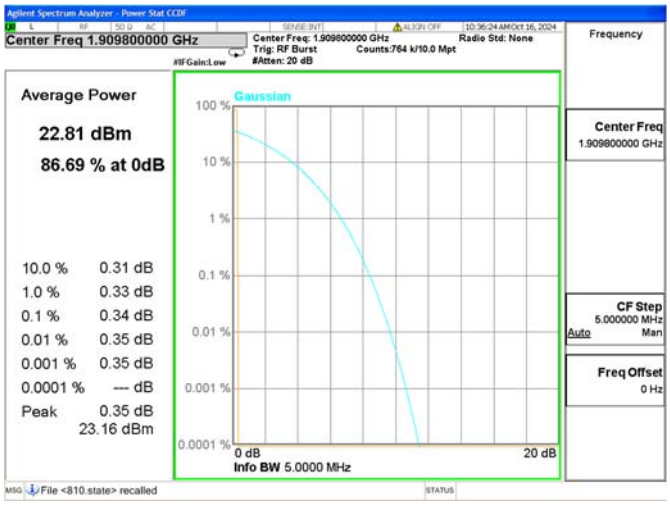
1. For GSM/EDGE operating mode:
a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
b. Set EUT in maximum output power, and triggered the bust signal.
c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.
2. For UMTS operating mode: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

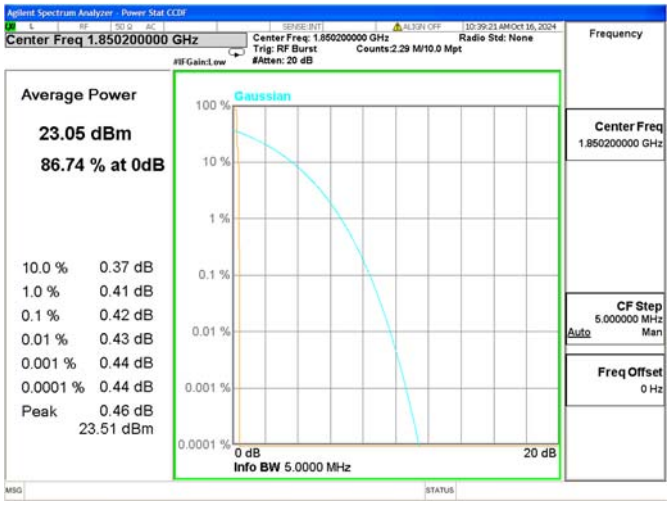
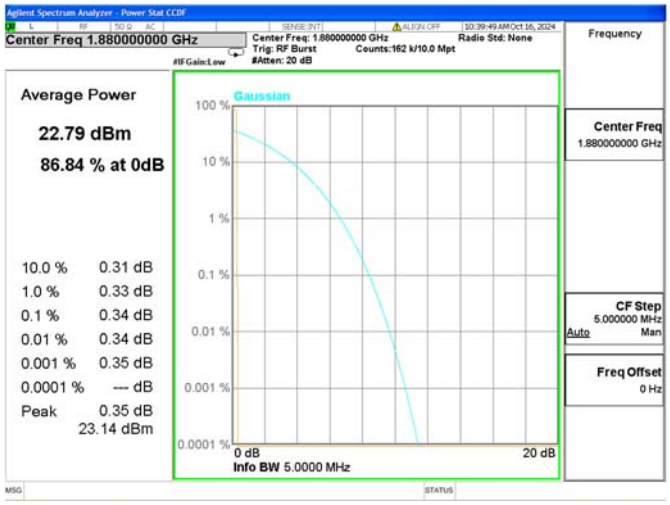
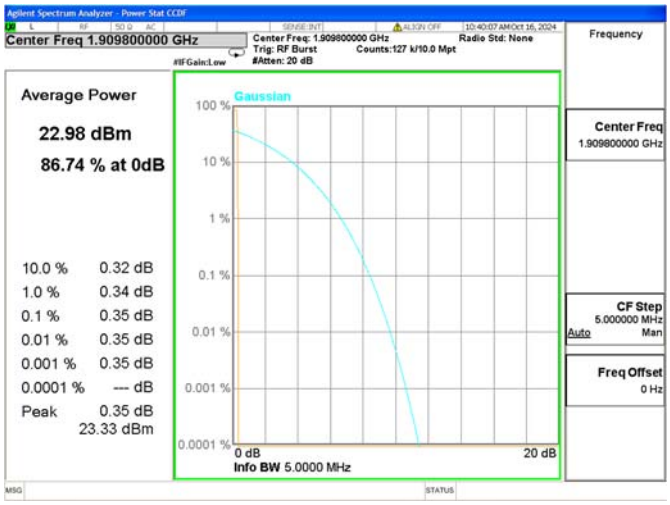
2.2.4.Test Result

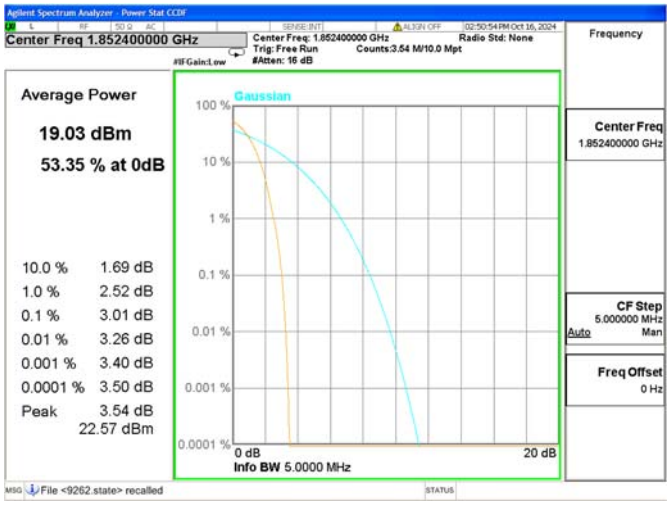
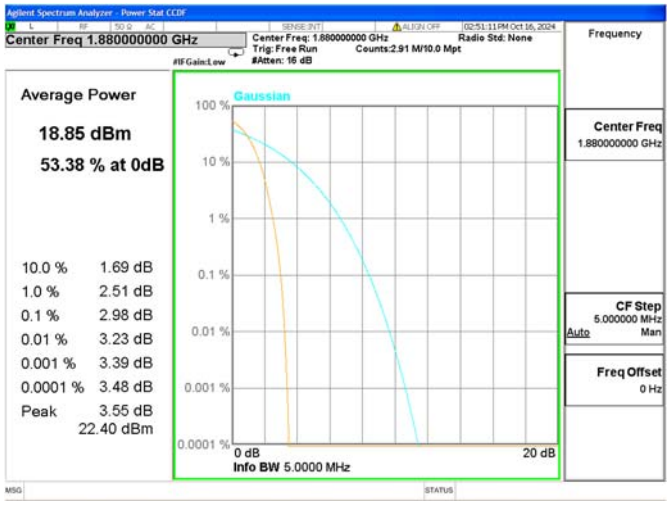
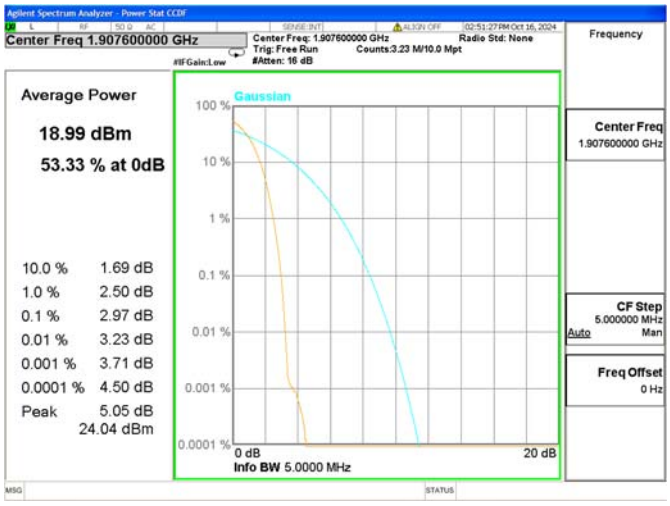
A. Test Verdict:

GSM1900					
Mode	**Channel**	**Frequency (MHz)**	**Peak to Average ratio (dB)**	**Limit (dB)**	**Verdict**
GSM	512	1850.2	0.33	13	PASS
	661	1880.0	0.33		PASS
	810	1909.8	0.34		PASS
EDGE	512	1850.2	0.42		PASS
	661	1880.0	0.34		PASS
	810	1909.8	0.35		PASS

WCDMA Band II					
Mode	**Channel**	**Frequency (MHz)**	**Peak to Average ratio (dB)**	**Limit (dB)**	**Verdict**
WCDMA	9262	1852.4	3.01	13	PASS
	9400	1880.0	2.98		PASS
	9538	1907.6	2.97		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 II, CH9262, 1852.4MHz	WCDMA Band II, CH9400, 1880.0MHz
	
WCDMA Band II, CH9538, 1907.6MHz	
	

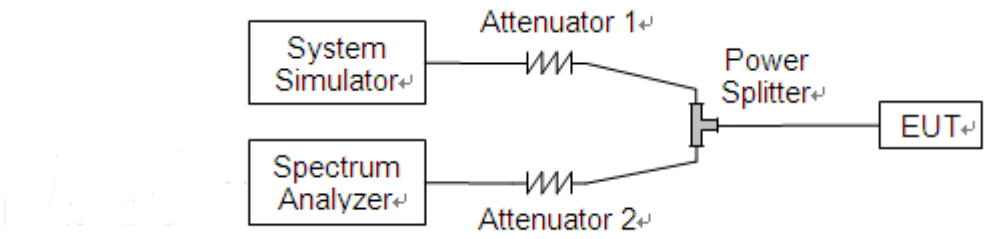
2.3. Occupied Bandwidth

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:



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2.3.3.Test Result

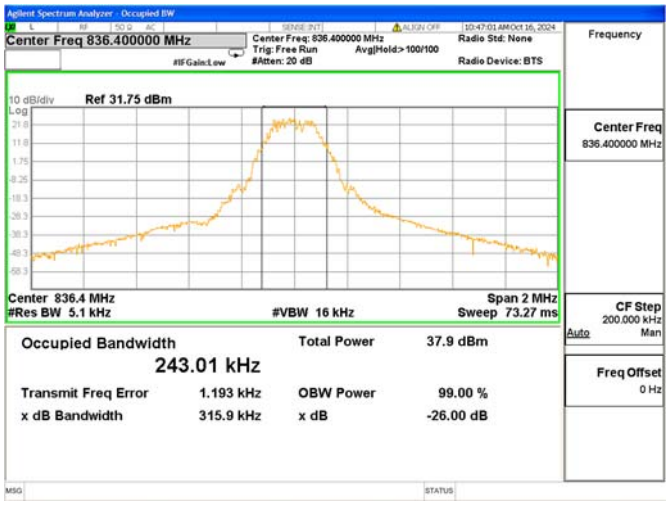
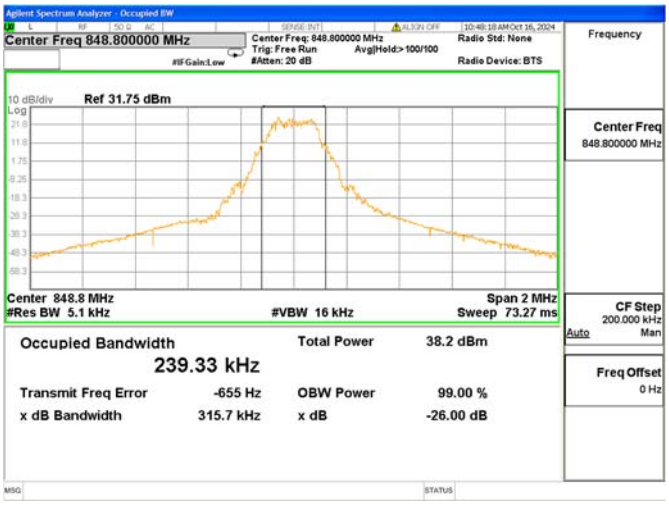
GSM850				
Mode	**Channel**	**Frequency (MHz)**	**99% Occupied Bandwidth (kHz)**	**26dB Bandwidth (kHz)**
GSM	128	824.2	243.28	314.90
	189	836.4	243.23	325.50
	251	848.8	243.20	315.00
EDGE	128	824.2	245.52	319.70
	189	836.4	243.01	315.90
	251	848.8	239.33	315.70

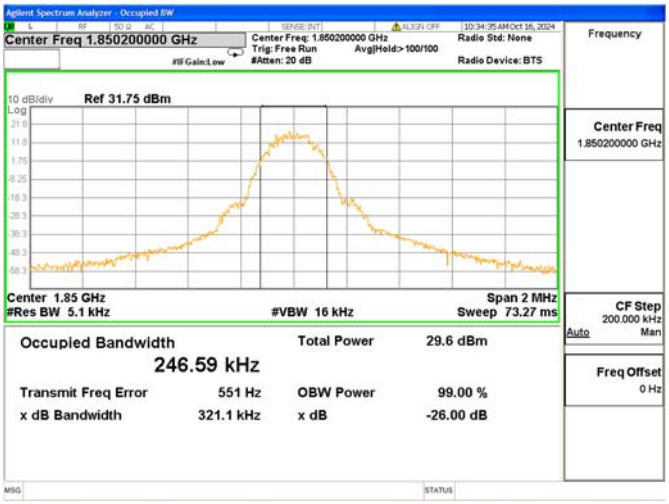
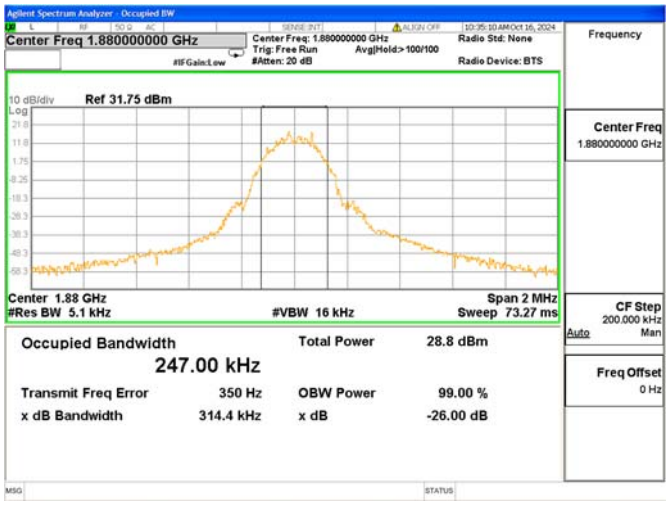
GSM1900				
Mode	**Channel**	**Frequency (MHz)**	**99% Occupied Bandwidth (kHz)**	**26dB Bandwidth (kHz)**
GSM	512	1850.2	246.59	321.10
	661	1880.0	247.00	314.40
	810	1909.8	242.90	310.60
EDGE	512	1850.2	239.90	313.00
	661	1880.0	236.55	312.80
	810	1909.8	244.07	319.60

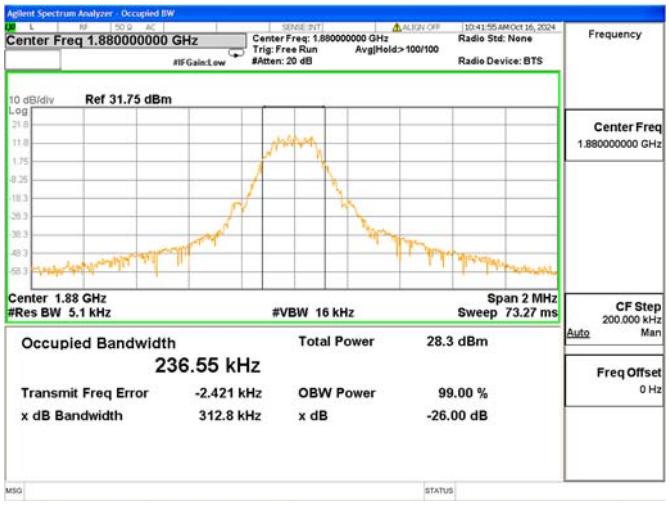
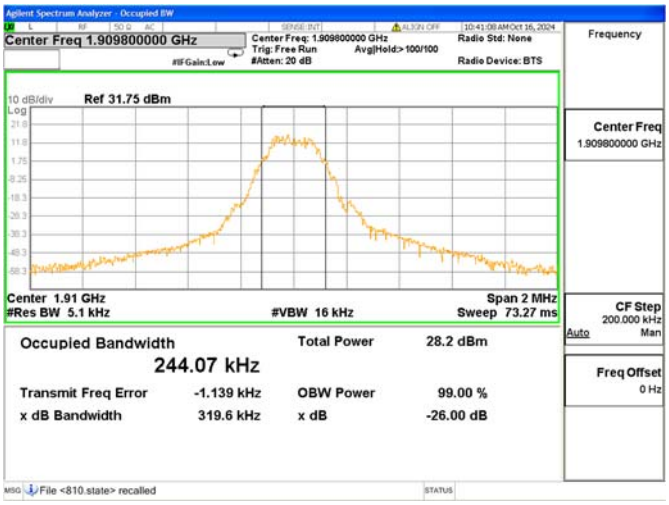
WCDMA Band V				
Mode	**Channel**	**Frequency (MHz)**	**99% Occupied Bandwidth (MHz)**	**26dB Bandwidth (MHz)**
WCDMA	4132	826.4	4.21	4.73
	4182	836.4	4.17	4.70
	4233	846.6	4.17	4.70

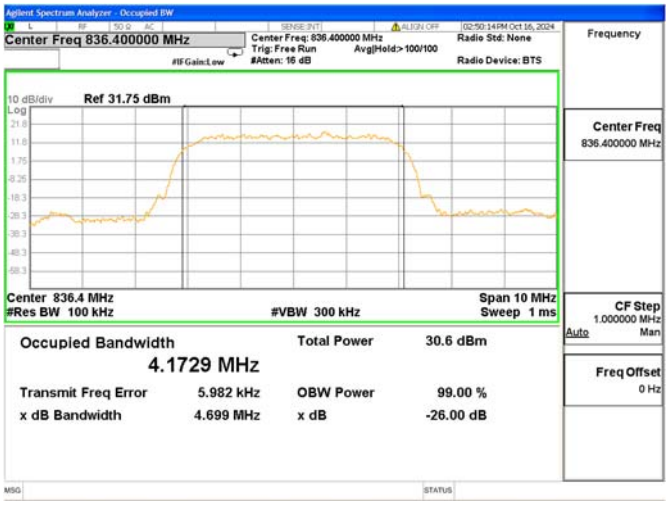
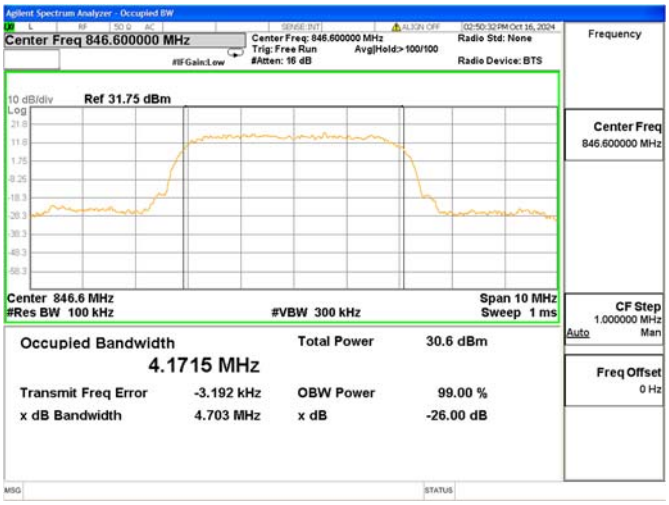
WCDMA Band II				
Mode	**Channel**	**Frequency (MHz)**	**99% Occupied Bandwidth (MHz)**	**26dB Bandwidth (MHz)**
WCDMA	9262	1852.4	4.20	4.72
	9400	1880.0	4.17	4.74
	9538	1907.6	4.18	4.71

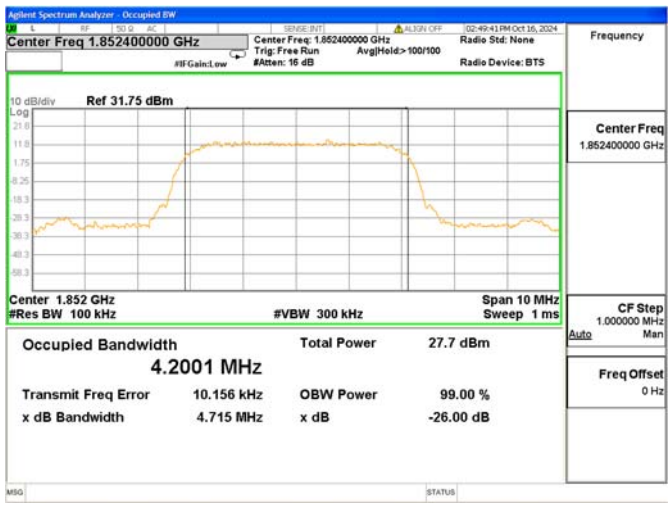
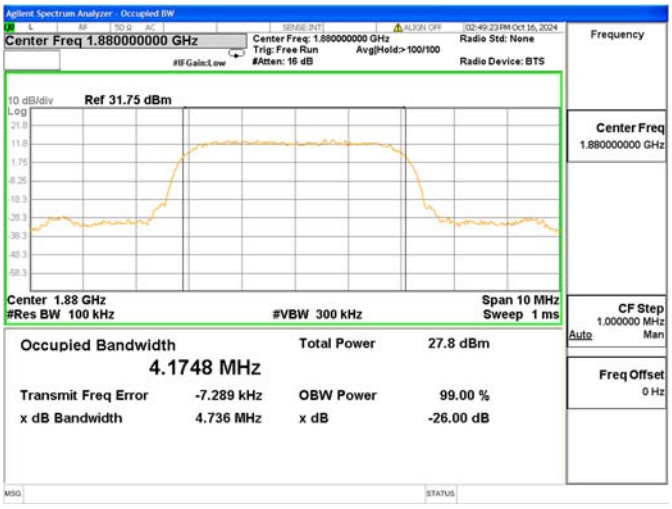
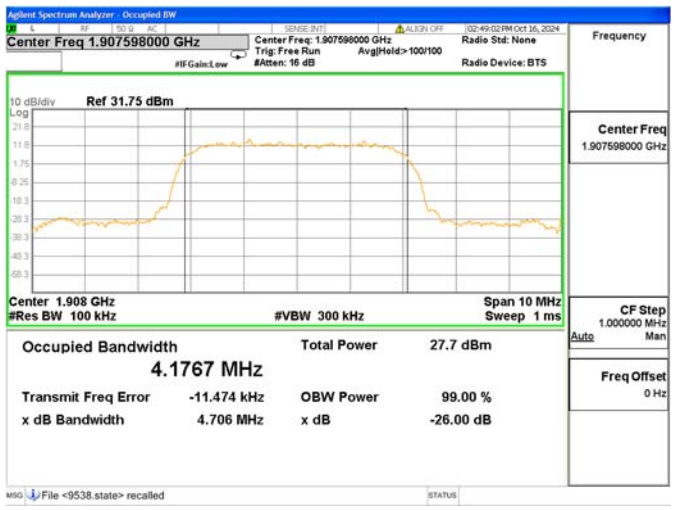
GSM850(GSM), CH128, 824.2MHz	GSM850(GSM), CH189, 836.4MHz
	
GSM850(GSM), CH251, 848.8MHz	
	

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 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:

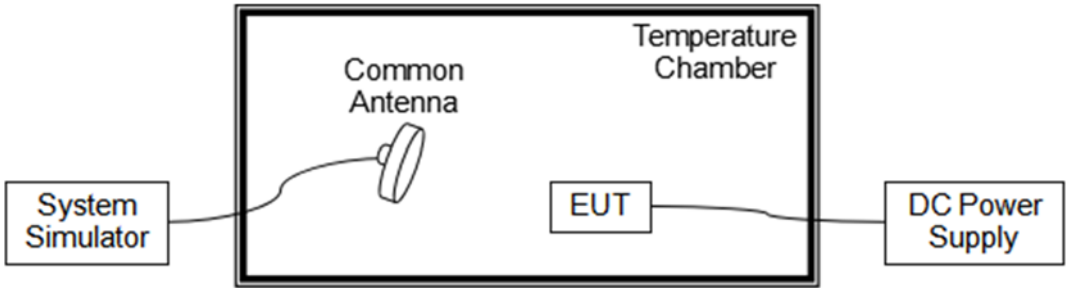
(a) The temperature is varied from-30°C to +50°C at intervals of not more than 10°C.

(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 35°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 4.75V, 5.00V and 5.35V, 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	5.00	+20(Ref)	1	0.001	PASS
Normal		0	17	0.020	
Normal		+10	20	**0.024**	
Normal		+20	-12	-0.014	
Normal		+30	17	0.020	
Normal		+35	14	0.017	
High	5.35	+20	-2	-0.002	
BATT.ENDPOINT	4.75	+20	14	0.017	

GSM850(EDGE), CH189, 836.4MHz Limit =±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	5.00	+20(Ref)	23	**0.027**	PASS
Normal		0	15	0.018	
Normal		+10	10	0.012	
Normal		+20	17	0.020	
Normal		+30	19	0.023	
Normal		+35	19	0.023	
High	5.35	+20	19	0.023	
BATT.ENDPOINT	4.75	+20	-4	-0.005	

GSM1900(GSM), CH661, 1880.0MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	5.00	+20(Ref)	15	0.008	PASS
Normal		0	15	0.008	
Normal		+10	-10	-0.005	
Normal		+20	16	0.009	
Normal		+30	-4	-0.002	
Normal		+35	19	**0.010**	
High	5.35	+20	13	0.007	
BATT.ENDPOINT	4.75	+20	19	**0.010**	

GSM1900(EDGE), CH661, 1880.0MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	5.00	+20(Ref)	18	0.010	PASS
Normal		0	-23	-0.012	
Normal		+10	-3	-0.002	
Normal		+20	20	**0.011**	
Normal		+30	-8	-0.004	
Normal		+35	17	0.009	
High	5.35	+20	16	0.009	
BATT.ENDPOINT	4.75	+20	16	0.009	

WCDMA Band V, CH4182, 836.4MHz Limit =±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	5.00	+20(Ref)	-6	-0.007	PASS
Normal		0	21	**0.025**	
Normal		+10	-12	-0.014	
Normal		+20	20	0.024	
Normal		+30	15	0.018	
Normal		+35	-12	-0.014	
High	5.35	+20	13	0.016	
BATT.ENDPOINT	4.75	+20	20	0.024	

WCDMA Band II, CH9400, 1880.0MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	5.00	+20(Ref)	13	0.007	PASS
Normal		0	20	**0.011**	
Normal		+10	20	**0.011**	
Normal		+20	12	0.006	
Normal		+30	16	0.009	
Normal		+35	20	**0.011**	
High	5.35	+20	14	0.007	
BATT.ENDPOINT	4.75	+20	11	0.006	

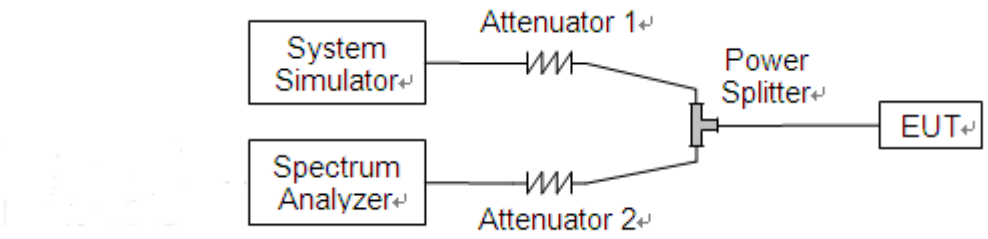
2.5. Conducted Out of Band Emissions

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*log(P)dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

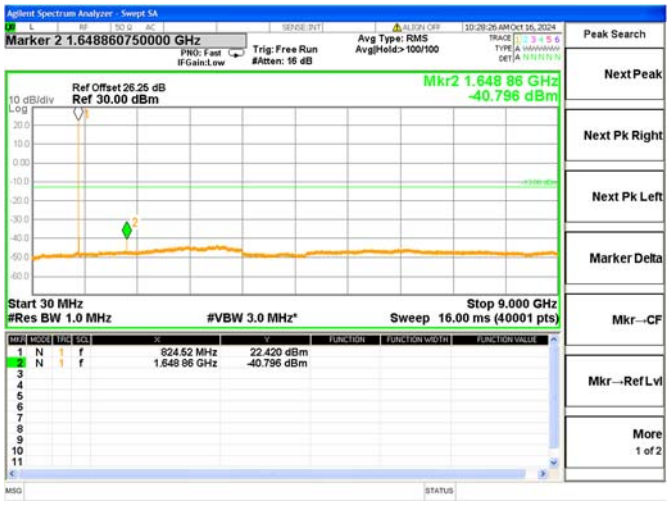
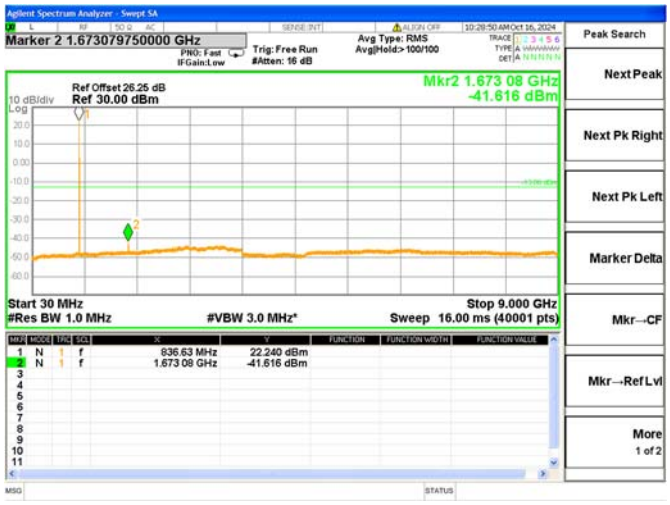
2.5.2.Test Description

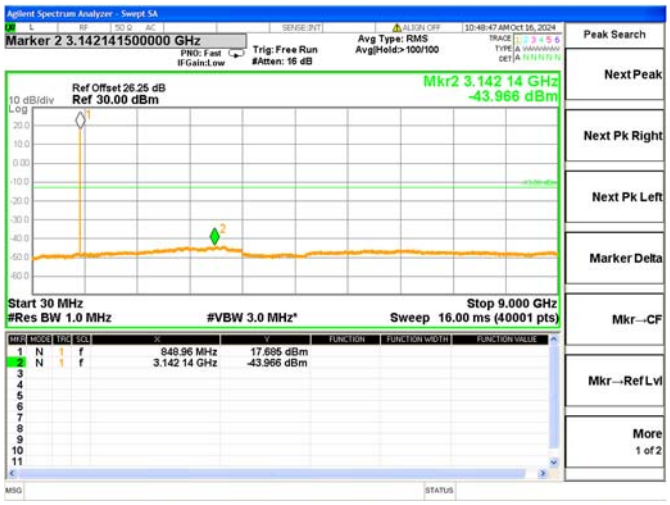
Test Setup:

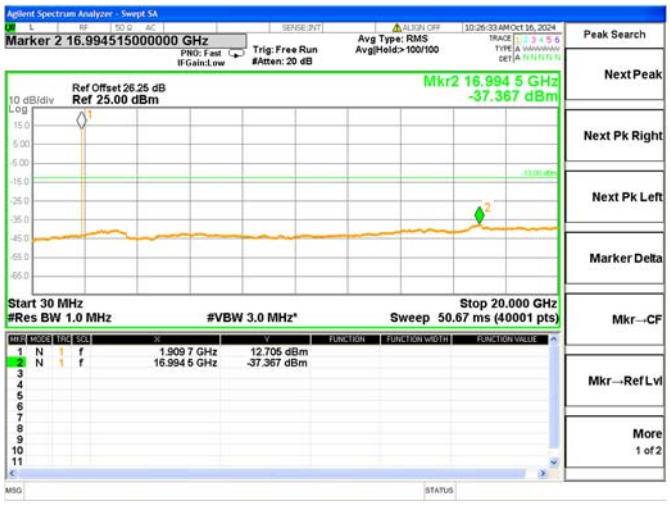


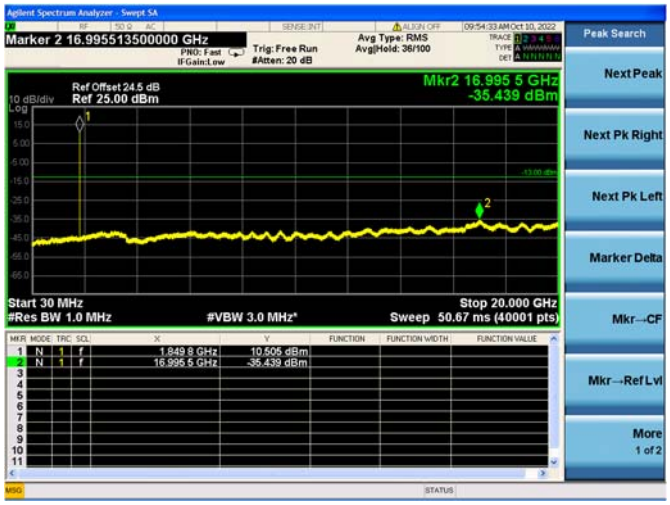
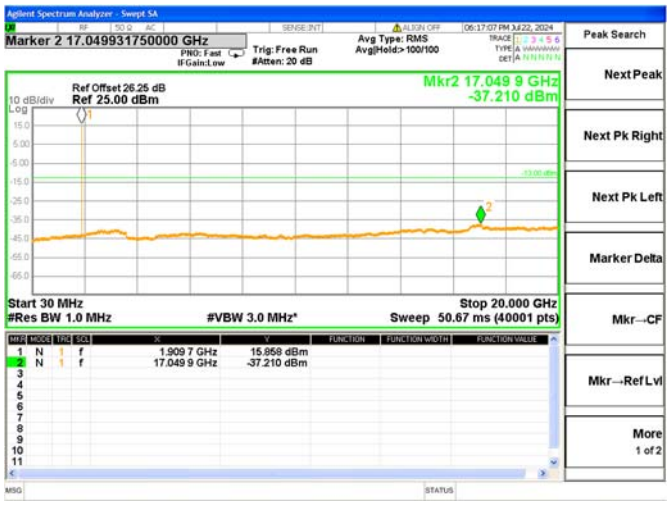
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum 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

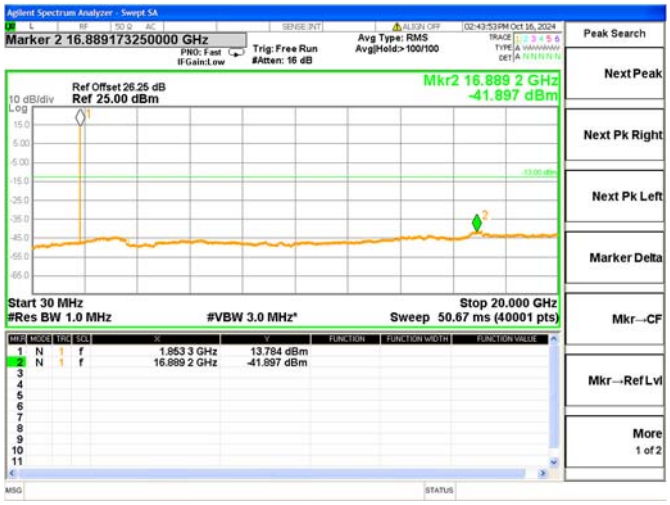
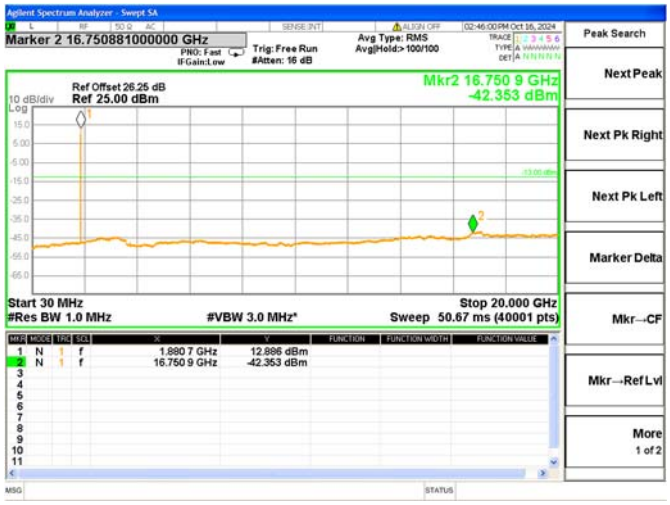
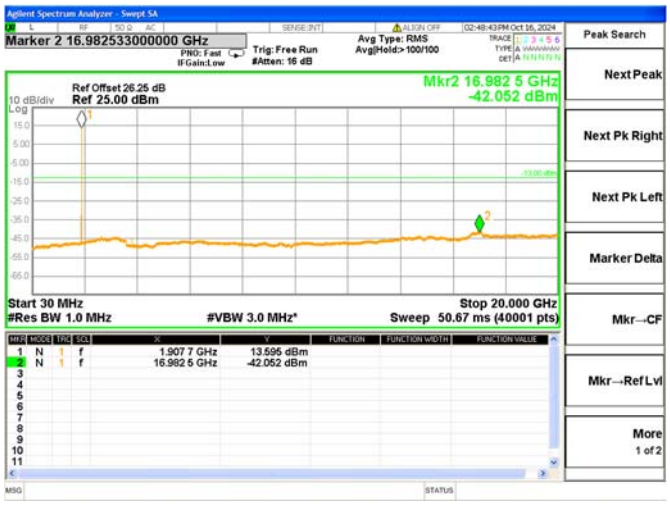
GSM850(GSM), CH128, 824.2MHz	GSM850(GSM), CH189, 836.4MHz
	
GSM850(GSM), CH251, 848.8MHz	
	

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

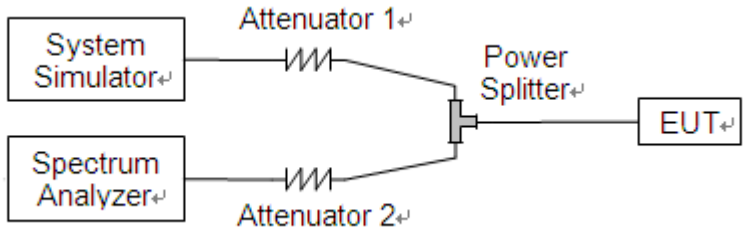
2.6. Band Edge

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*log(P)dB.

2.6.2.Test Description

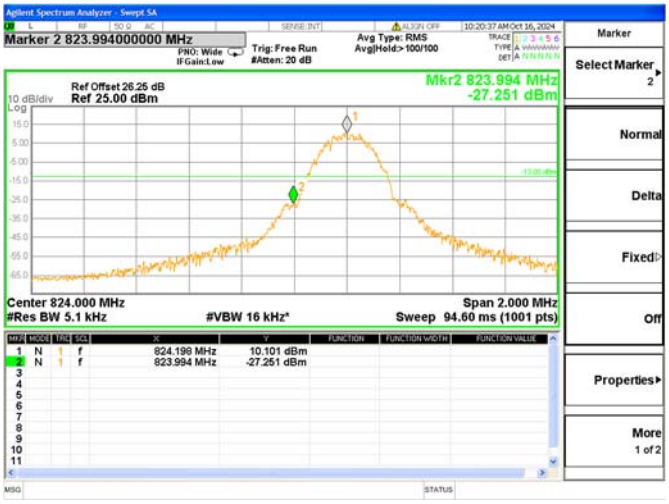
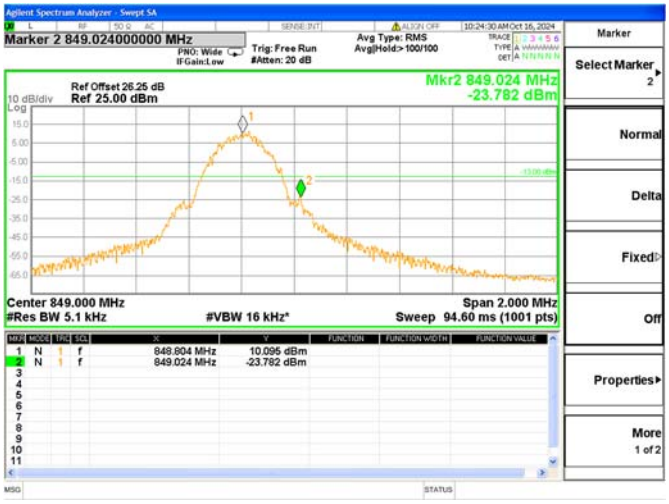
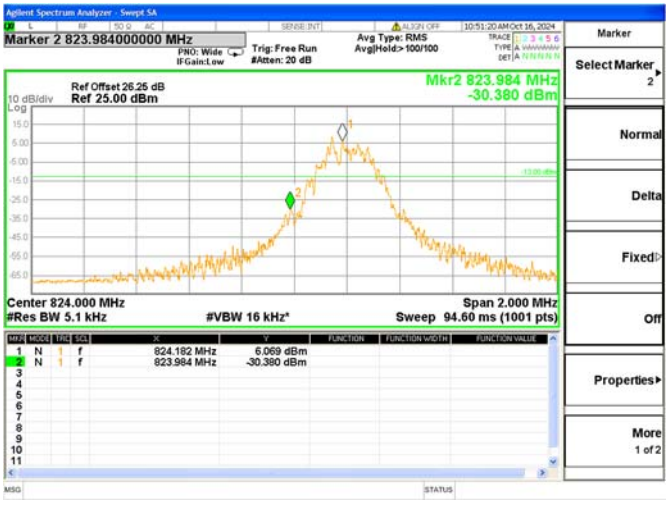
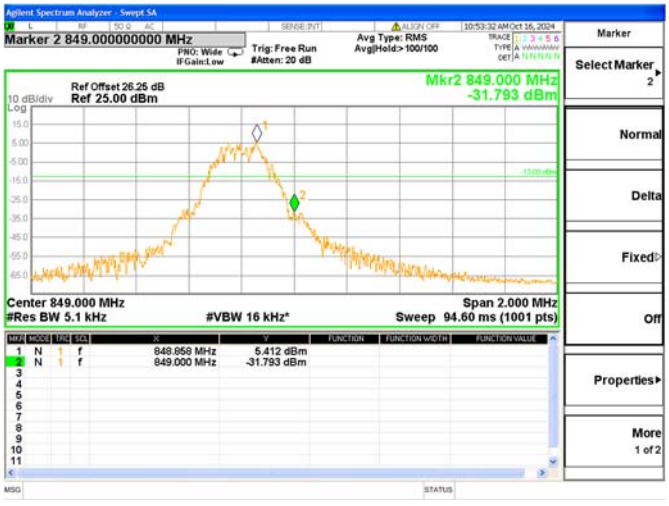
Test Setup:

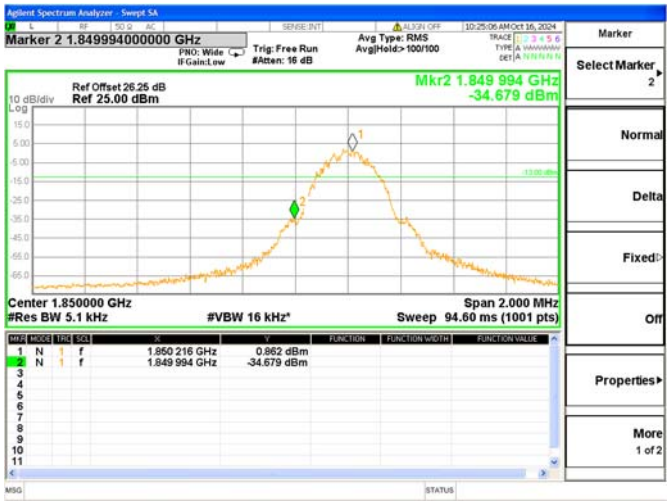
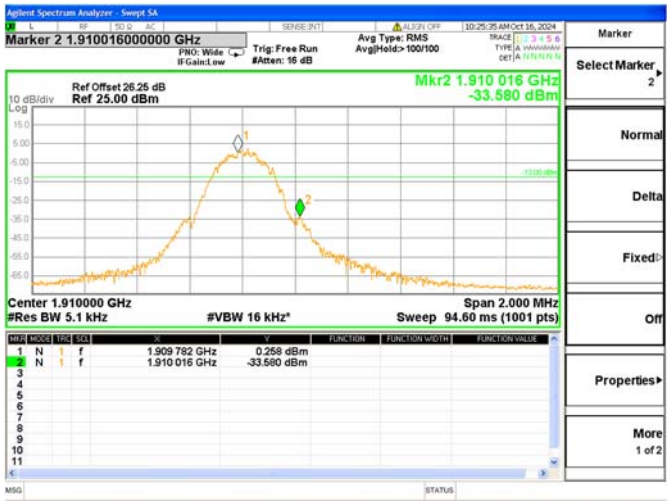
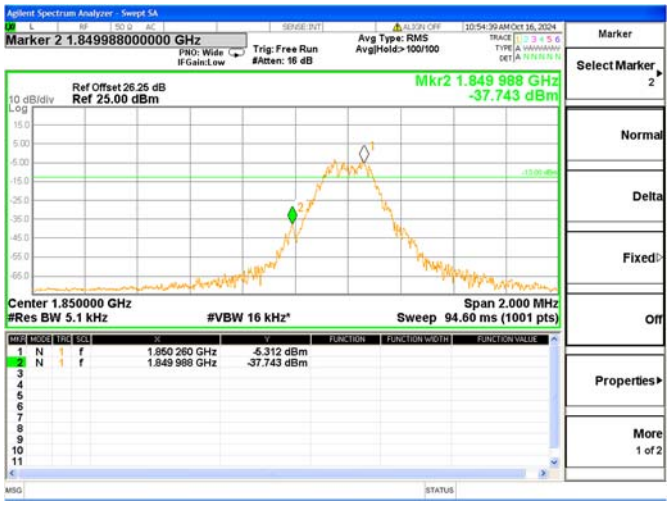
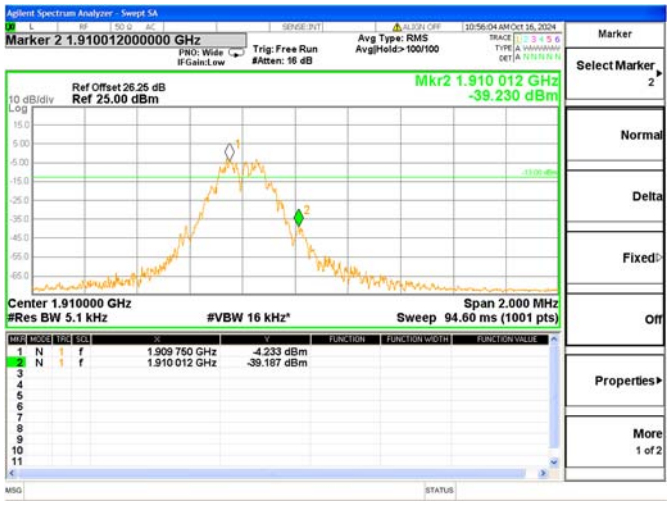


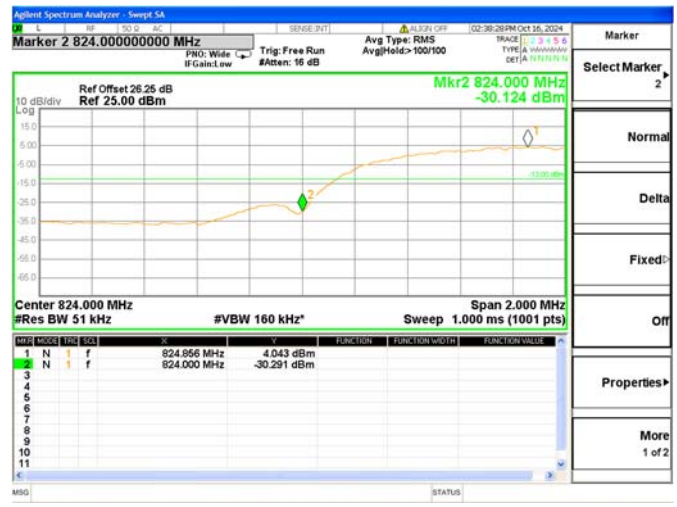
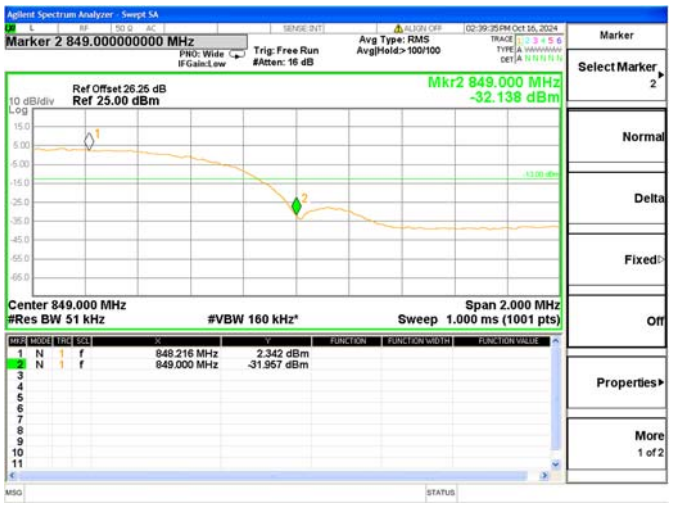
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum 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.

GSM850(GSM), CH128, 824.2MHz	GSM850(GSM), CH251, 848.8MHz
	
GSM850(EDGE), CH128, 824.2MHz	**GSM850(EDGE), CH251, 848.8MHz**
	

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 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:
E.R.P. or E.I.R.P. = $P_{Meas} + G_T$
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) E.R.P. = E.I.R.P. − 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.
b) E.I.R.P. = E.R.P. + 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.

2.7.3.Test Result

GSM850								
Band	Channel	Frequency (MHz)	PCL	Measured E.R.P.		Limit		Verdict
				dBm	W	dBm	W	
GSM	128	824.20	5	26.75	0.473	38.5	7	PASS
	189	836.40	5	26.89	0.489			PASS
	251	848.80	5	26.81	0.480			PASS
GPRS	128	824.20	5	26.79	0.478	38.5	7	PASS
	189	836.40	5	26.92	0.492			PASS
	251	848.80	5	26.83	0.482			PASS
EDGE	128	824.20	5	21.94	0.156	38.5	7	PASS
	189	836.40	5	22.12	0.163			PASS
	251	848.80	5	21.96	0.157			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	29.50	0.891	33	2	PASS
	661	1880.0	0	29.46	0.883			PASS
	810	1909.8	0	29.30	0.851			PASS
GPRS	512	1850.2	0	29.53	0.897	33	2	PASS
	661	1880.0	0	29.48	0.887			PASS
	810	1909.8	0	29.33	0.857			PASS
EDGE	512	1850.2	0	26.51	0.448	33	2	PASS
	661	1880.0	0	26.41	0.438			PASS
	810	1909.8	0	26.29	0.426			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	17.14	0.052	38.5	7	PASS
	4182	836.4	17.10	0.051			PASS
	4233	846.6	17.09	0.051			PASS
HSDPA	4132	826.4	16.12	0.041	38.5	7	PASS
	4182	836.4	16.09	0.041			PASS
	4233	846.6	16.06	0.040			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							

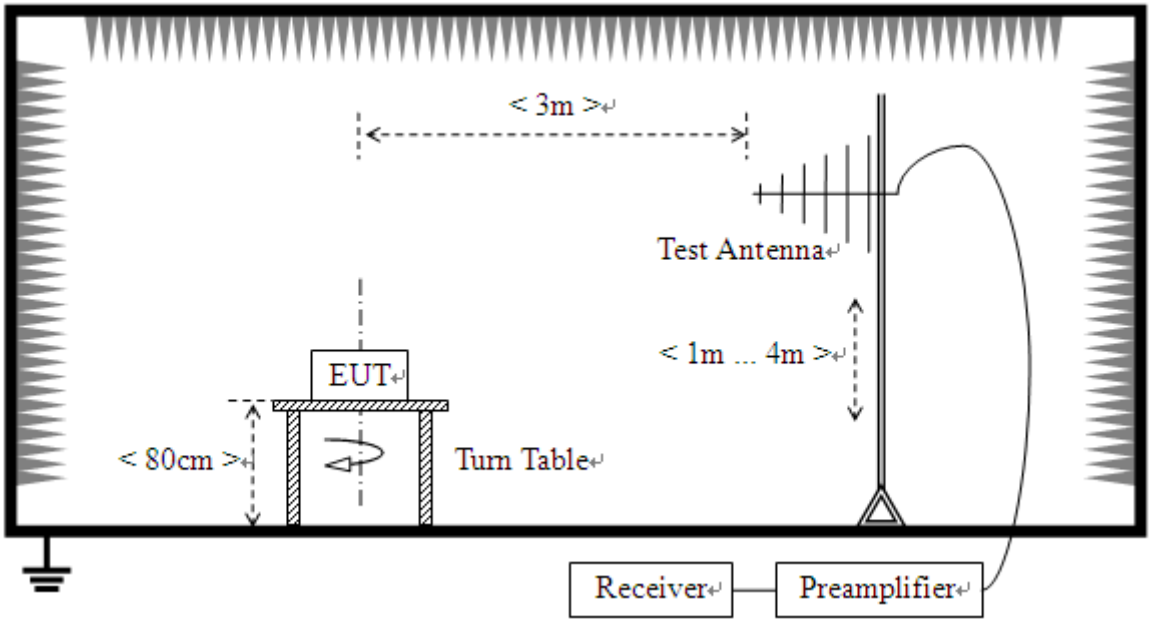
WCDMA Band II							
Band	Channel	Frequency (MHz)	Measured E.I.R.P.		Limit		Verdict
			dBm	W	dBm	W	
WCDMA	9262	1852.4	22.57	0.181	33	2	PASS
	9400	1880.0	22.51	0.178			PASS
	9538	1907.6	22.53	0.179			PASS
HSDPA	9262	1852.4	21.57	0.144	33	2	PASS
	9400	1880.0	21.55	0.143			PASS
	9538	1907.6	21.51	0.142			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

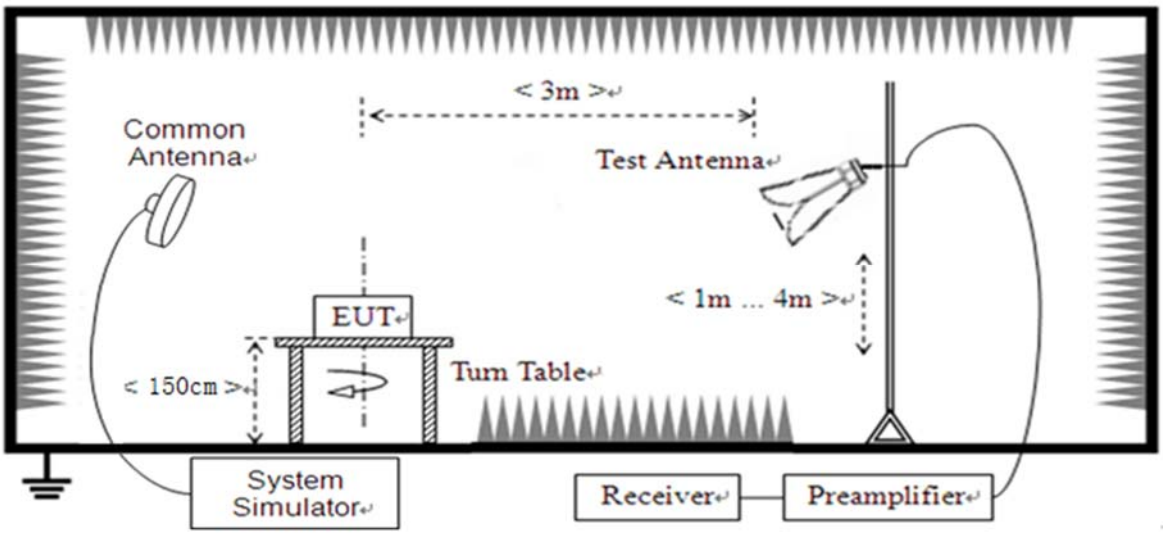
2.8.1.Requirement

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 to1GHz)



(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:

$A_{SUBST} = P_{SUBST\_TX} - P_{SUBST\_RX} - L_{SUBST\_CABLES} + G_{SUBST\_TX\_ANT}$

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

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

P_{SUBST_TX} is signal generator level,

P_{SUBST_RX} is receiver level,

L_{SUBST_CABLES} is cable losses including TX cable,

$G_{SUBST\_TX\_ANT}$ 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}.

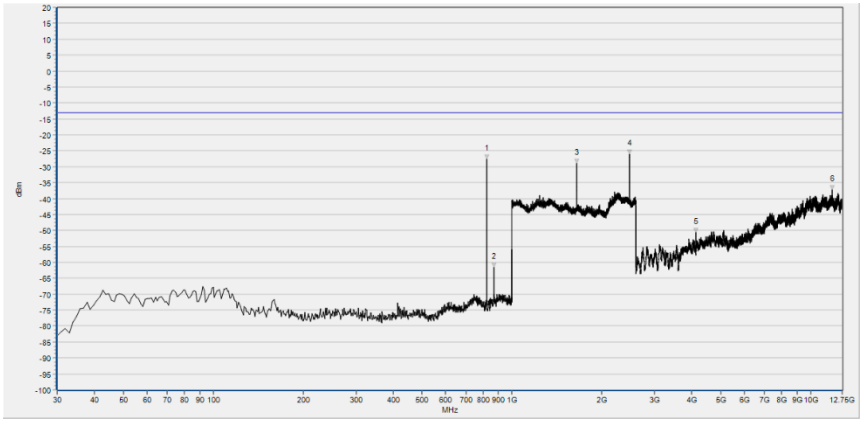
Note1: The power of the EUT transmitting frequency should be ignored.

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

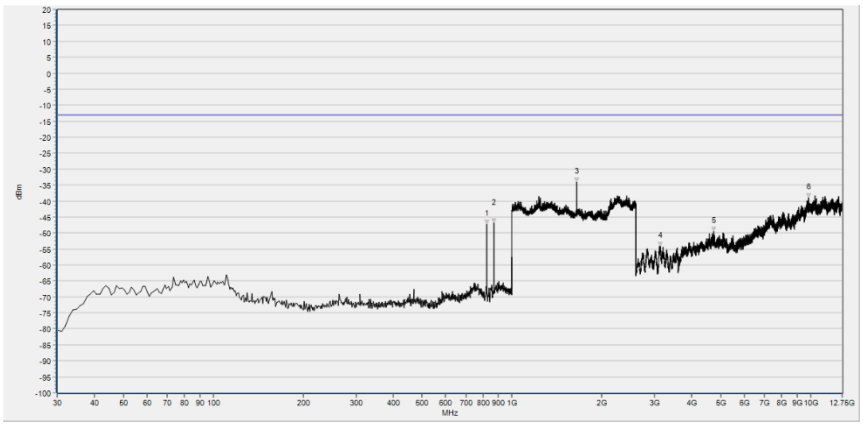
Note3: All spurious emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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

GSM850(GSM), Low Channel

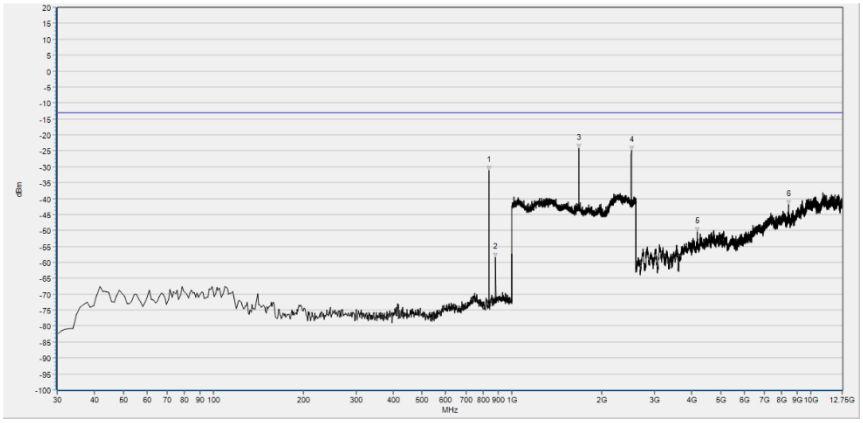


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-27.68	-13.00	Horizontal	N/A
2	869.050	-61.50	-13.00	Horizontal	N/A
3	1647.939	-28.94	-13.00	Horizontal	PASS
4	2472.589	-25.98	-13.00	Horizontal	PASS
5	4120.931	-50.68	-13.00	Horizontal	PASS
6	11808.647	-37.18	-13.00	Horizontal	PASS

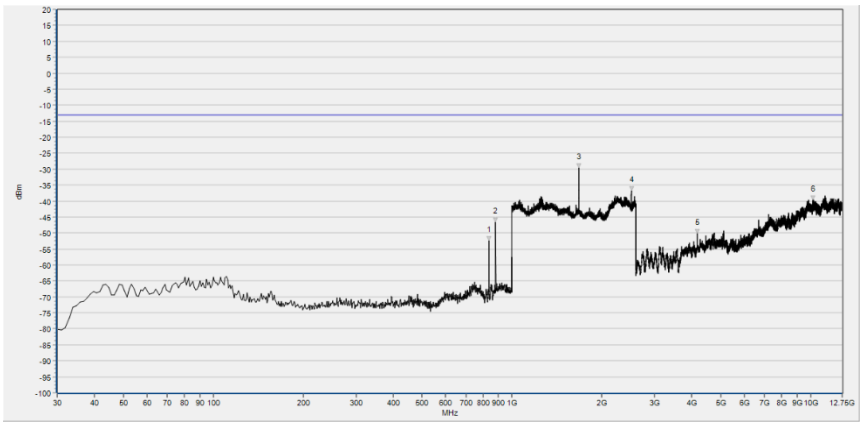


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-47.23	-13.00	Vertical	N/A
2	869.050	-46.74	-13.00	Vertical	N/A
3	1647.939	-34.13	-13.00	Vertical	PASS
4	5097.354	-49.96	-13.00	Vertical	PASS
5	4733.733	-49.60	-13.00	Vertical	PASS
6	9824.423	-39.08	-13.00	Vertical	PASS

GSM850(GSM), Mid Channel

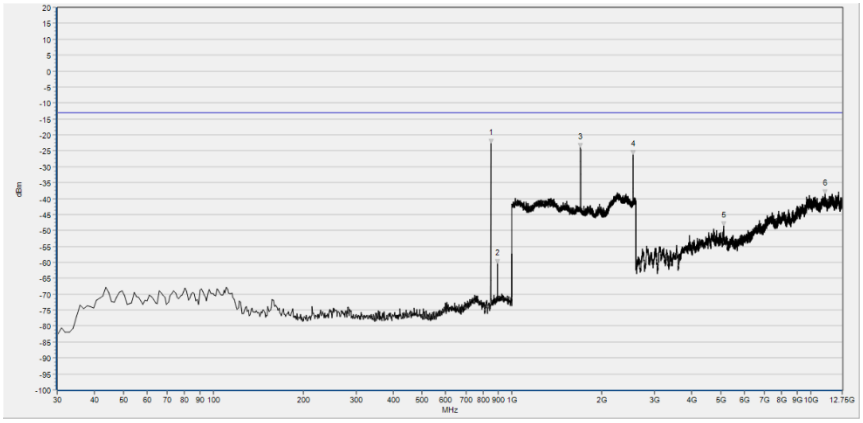


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-31.10	-13.00	Horizontal	N/A
2	881.660	-58.53	-13.00	Horizontal	N/A
3	1672.909	-24.17	-13.00	Horizontal	PASS
4	2509.084	-24.99	-13.00	Horizontal	PASS
5	4181.842	-50.39	-13.00	Horizontal	PASS
6	8438.234	-41.97	-13.00	Horizontal	PASS

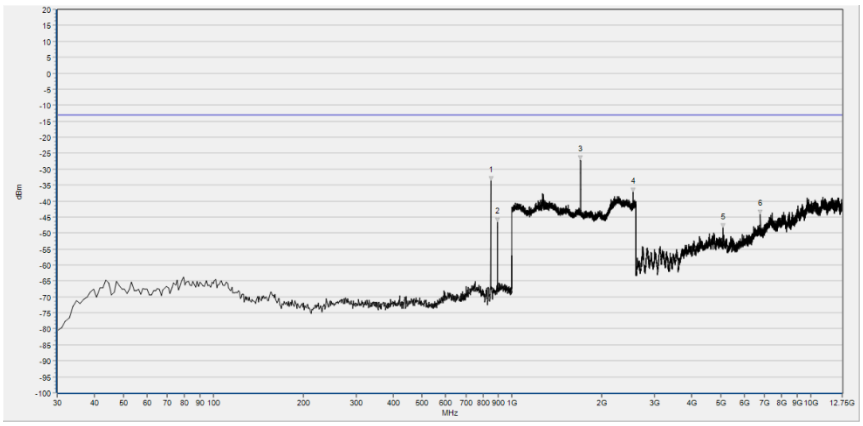


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-52.42	-13.00	Vertical	N/A
2	881.660	-46.68	-13.00	Vertical	N/A
3	1672.269	-29.69	-13.00	Vertical	PASS
4	2509.084	-36.66	-13.00	Vertical	PASS
5	4181.842	-50.25	-13.00	Vertical	PASS
6	10152.973	-39.66	-13.00	Vertical	PASS

GSM850(GSM), High Channel

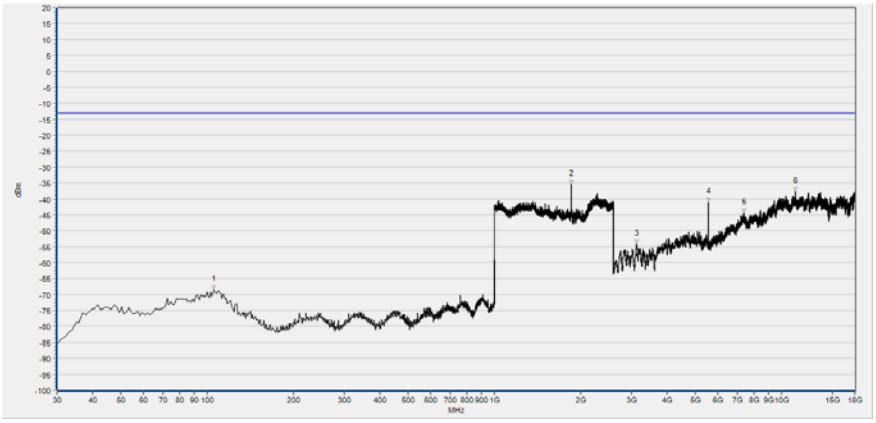


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-22.71	-13.00	Horizontal	N/A
2	893.300	-60.54	-13.00	Horizontal	N/A
3	1697.239	-23.98	-13.00	Horizontal	PASS
4	2546.218	-26.32	-13.00	Horizontal	PASS
5	5102.891	-48.68	-13.00	Horizontal	PASS
6	11203.228	-38.62	-13.00	Horizontal	PASS

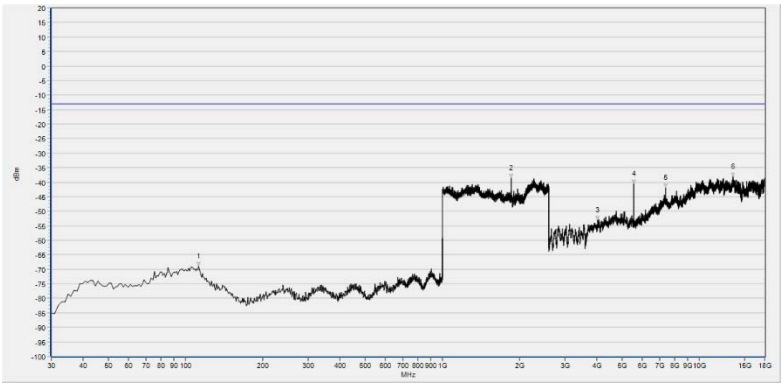


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-33.72	-13.00	Vertical	N/A
2	894.270	-46.55	-13.00	Vertical	N/A
3	1697.239	-27.24	-13.00	Vertical	PASS
4	2546.218	-37.19	-13.00	Vertical	PASS
5	5091.817	-48.44	-13.00	Vertical	PASS
6	6789.944	-44.23	-13.00	Vertical	PASS

GSM1900(GSM), Low Channel

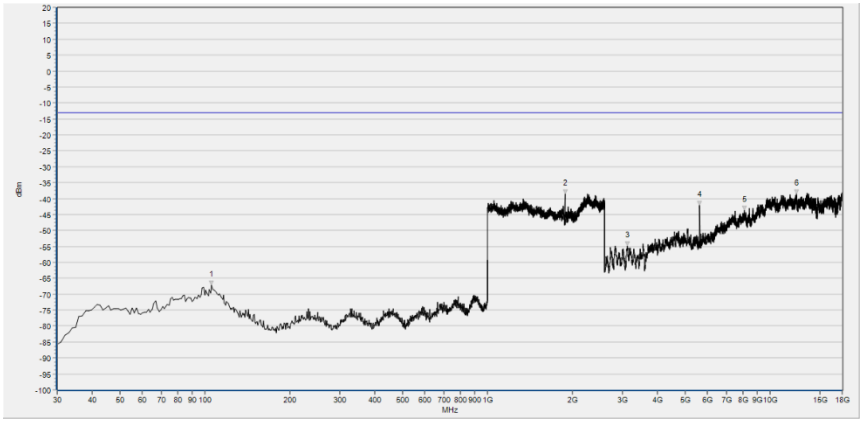


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-68.59	-13.00	Horizontal	PASS
2	1849.620	-35.49	-13.00	Horizontal	N/A
3	3118.094	-54.17	-13.00	Horizontal	PASS
4	5548.936	-41.11	-13.00	Horizontal	PASS
5	7411.275	-44.36	-13.00	Horizontal	PASS
6	11158.356	-37.66	-13.00	Horizontal	PASS

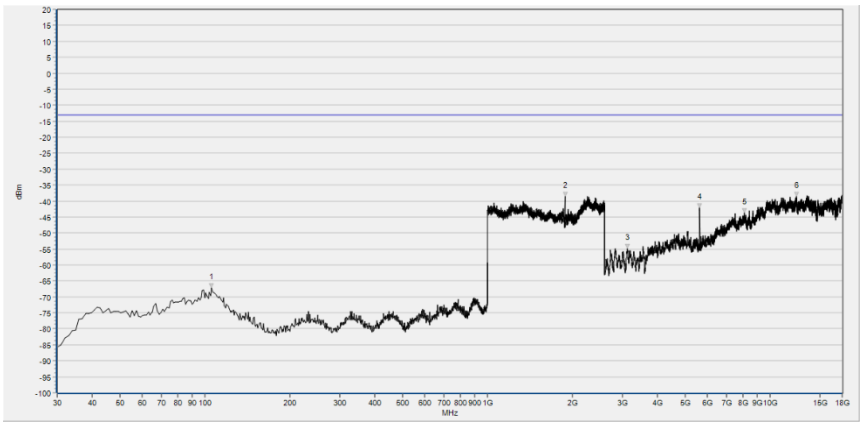


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	112.450	-68.97	-13.00	Vertical	PASS
2	1850.260	-38.49	-13.00	Vertical	N/A
3	4022.659	-52.98	-13.00	Vertical	PASS
4	5551.737	-40.57	-13.00	Vertical	PASS
5	7400.073	-41.88	-13.00	Vertical	PASS
6	13558.392	-38.05	-13.00	Vertical	PASS

GSM1900(GSM), Mid Channel

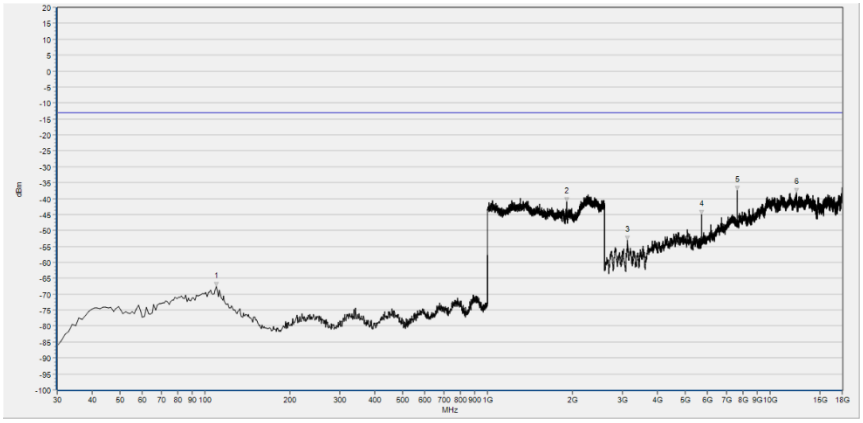


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-67.07	-13.00	Horizontal	PASS
2	1879.712	-38.61	-13.00	Horizontal	N/A
3	3126.496	-54.82	-13.00	Horizontal	PASS
4	5638.552	-42.13	-13.00	Horizontal	PASS
5	8119.804	-43.64	-13.00	Horizontal	PASS
6	12370.977	-38.60	-13.00	Horizontal	PASS

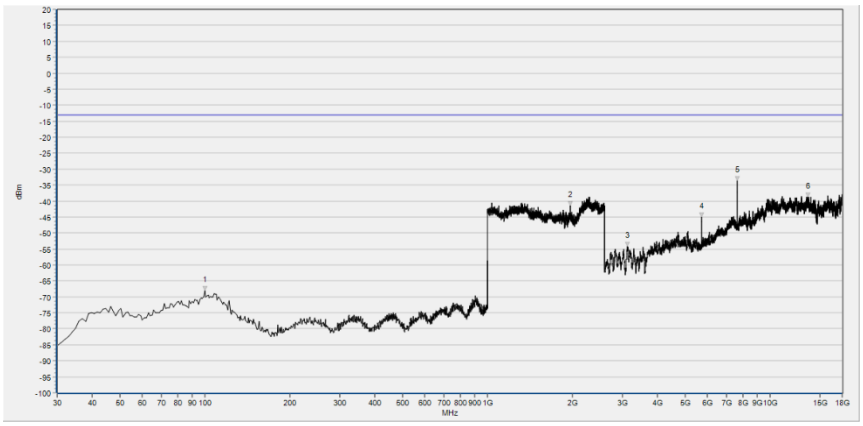


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-67.07	-13.00	Vertical	PASS
2	1879.712	-38.61	-13.00	Vertical	N/A
3	3126.496	-54.82	-13.00	Vertical	PASS
4	5638.552	-42.13	-13.00	Vertical	PASS
5	8119.804	-43.64	-13.00	Vertical	PASS
6	12370.977	-38.60	-13.00	Vertical	PASS

GSM1900(GSM), High Channel

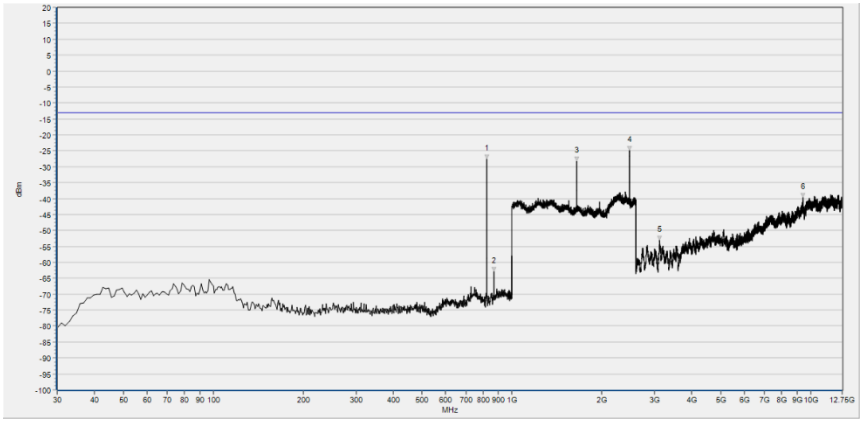


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	109.540	-67.71	-13.00	Horizontal	PASS
2	1909.804	-41.01	-13.00	Horizontal	N/A
3	3134.897	-53.09	-13.00	Horizontal	PASS
4	5728.169	-44.98	-13.00	Horizontal	PASS
5	7638.116	-37.45	-13.00	Horizontal	PASS
6	12393.381	-38.14	-13.00	Horizontal	PASS

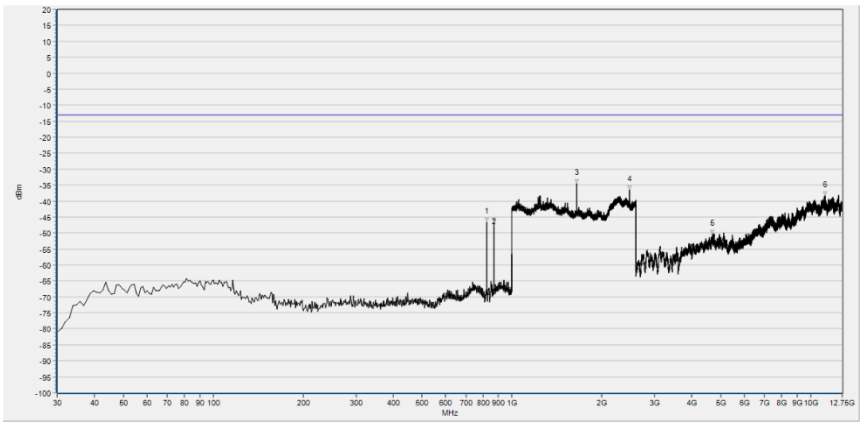


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	99.840	-68.05	-13.00	Vertical	PASS
2	1959.744	-41.50	-13.00	Vertical	N/A
3	3126.496	-54.10	-13.00	Vertical	PASS
4	5728.169	-45.07	-13.00	Vertical	PASS
5	7638.116	-33.59	-13.00	Vertical	PASS
6	13597.600	-38.85	-13.00	Vertical	PASS

GSM850(EDGE), Low Channel

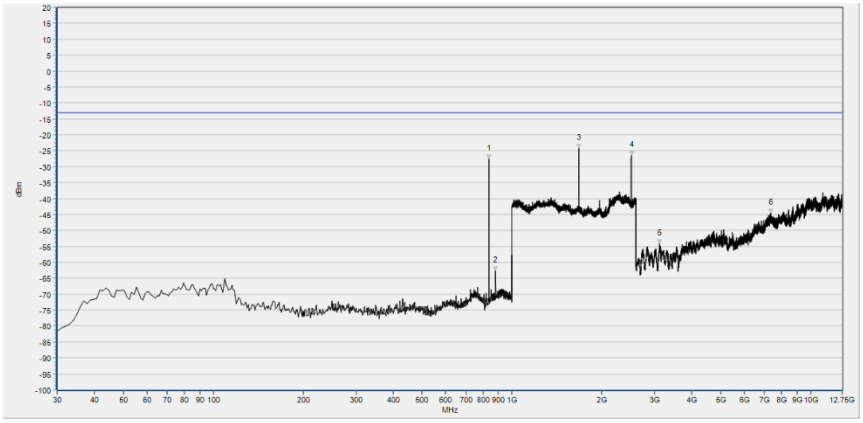


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-27.52	-13.00	Horizontal	N/A
2	869.050	-63.00	-13.00	Horizontal	N/A
3	1648.579	-28.18	-13.00	Horizontal	PASS
4	2472.589	-24.84	-13.00	Horizontal	PASS
5	3126.050	-53.04	-13.00	Horizontal	PASS
6	9427.578	-39.77	-13.00	Horizontal	PASS

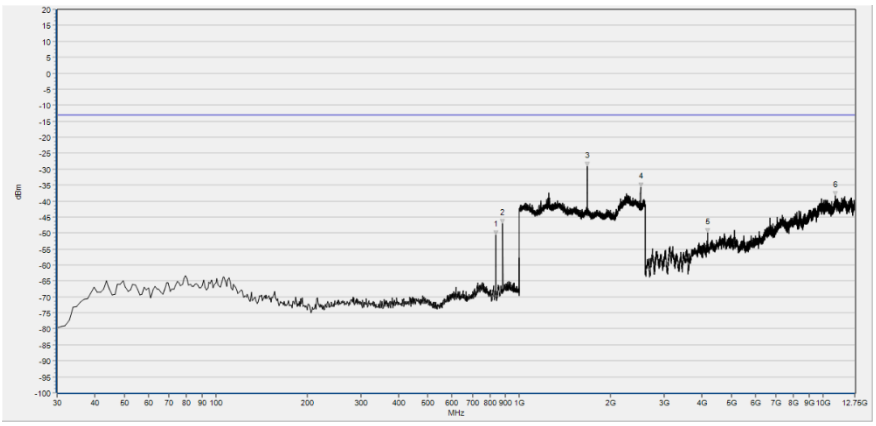


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	824.430	-46.66	-13.00	Vertical	N/A
2	869.050	-46.59	-13.00	Vertical	N/A
3	1648.579	-34.62	-13.00	Vertical	PASS
4	2472.589	-36.61	-13.00	Vertical	PASS
5	4680.205	-50.30	-13.00	Vertical	PASS
6	11190.307	-38.38	-13.00	Vertical	PASS

GSM850(EDGE), Mid Channel

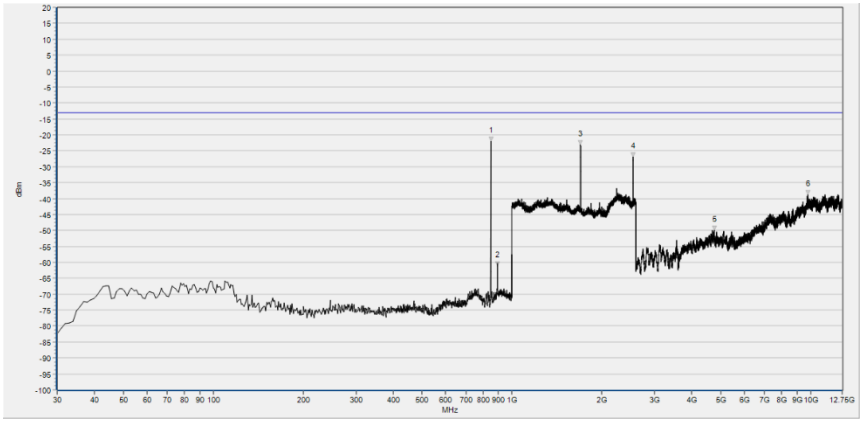


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-27.67	-13.00	Horizontal	N/A
2	881.660	-62.68	-13.00	Horizontal	N/A
3	1672.269	-24.26	-13.00	Horizontal	PASS
4	2509.084	-26.56	-13.00	Horizontal	PASS
5	3126.050	-54.25	-13.00	Horizontal	PASS
6	7347.372	-44.51	-13.00	Horizontal	PASS

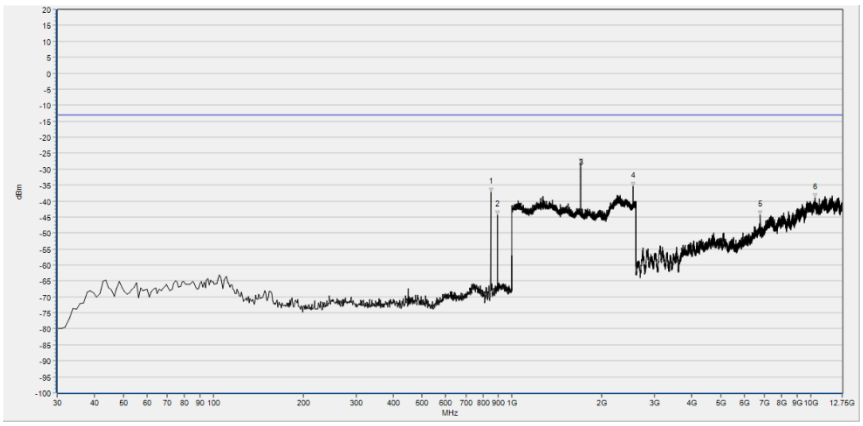


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	836.070	-50.50	-13.00	Vertical	N/A
2	881.660	-47.02	-13.00	Vertical	N/A
3	1672.909	-29.07	-13.00	Vertical	PASS
4	2509.084	-35.59	-13.00	Vertical	PASS
5	4181.842	-50.00	-13.00	Vertical	PASS
6	11002.037	-38.40	-13.00	Vertical	PASS

GSM850(EDGE), High Channel

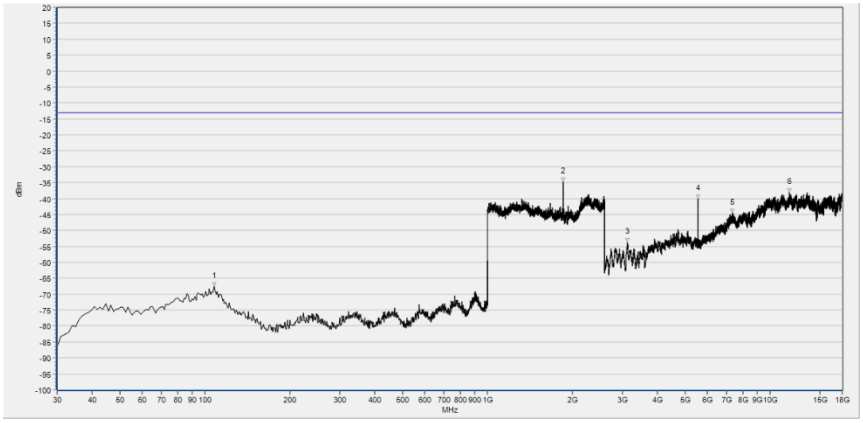


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-22.01	-13.00	Horizontal	N/A
2	893.300	-61.03	-13.00	Horizontal	N/A
3	1697.239	-23.14	-13.00	Horizontal	PASS
4	2546.218	-26.89	-13.00	Horizontal	PASS
5	4750.346	-50.04	-13.00	Horizontal	PASS
6	9804.119	-38.82	-13.00	Horizontal	PASS

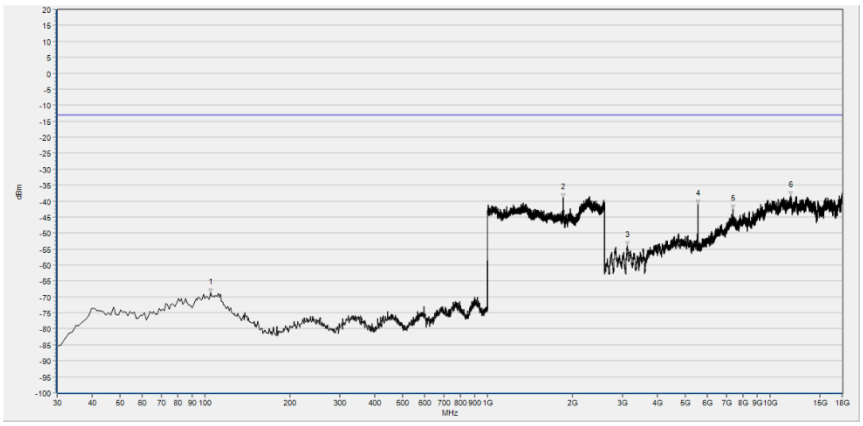


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-37.30	-13.00	Vertical	N/A
2	893.300	-44.40	-13.00	Vertical	N/A
3	1697.879	-28.14	-13.00	Vertical	PASS
4	2546.218	-35.37	-13.00	Vertical	PASS
5	6789.944	-44.27	-13.00	Vertical	PASS
6	10337.552	-39.06	-13.00	Vertical	PASS

GSM1900(EDGE), Low Channel

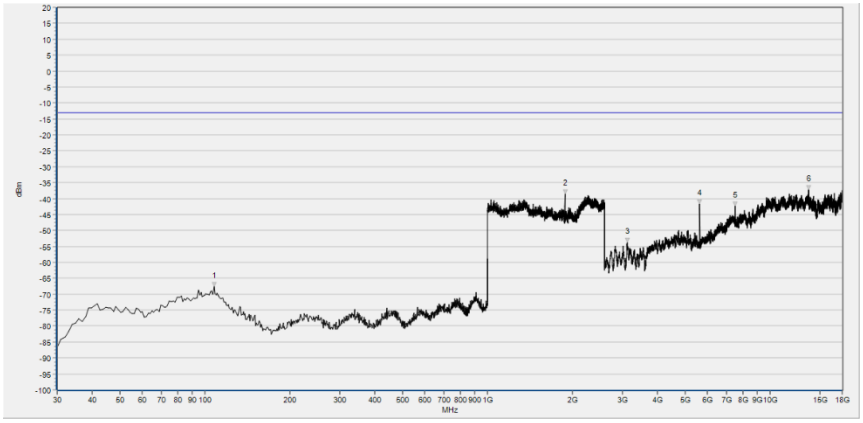


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-67.67	-13.00	Horizontal	PASS
2	1849.620	-34.82	-13.00	Horizontal	N/A
3	3126.496	-53.78	-13.00	Horizontal	PASS
4	5548.936	-40.20	-13.00	Horizontal	PASS
5	7332.861	-44.69	-13.00	Horizontal	PASS
6	11707.256	-38.05	-13.00	Horizontal	PASS

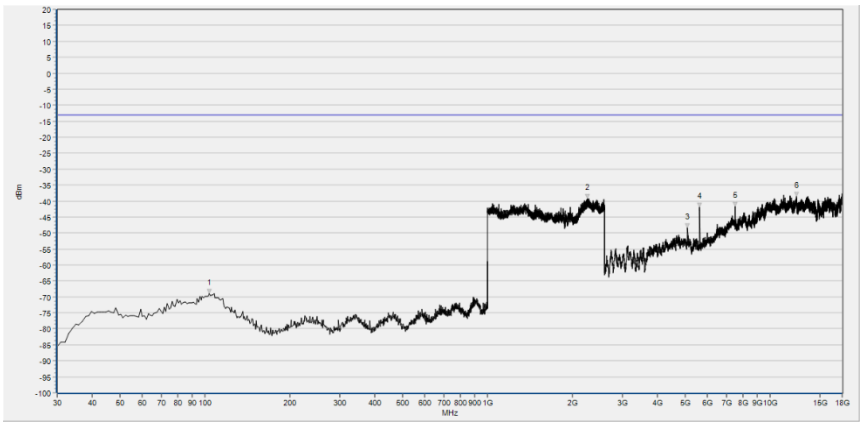


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	104.690	-68.81	-13.00	Vertical	PASS
2	1850.260	-38.98	-13.00	Vertical	N/A
3	3132.097	-53.92	-13.00	Vertical	PASS
4	5551.737	-41.11	-13.00	Vertical	PASS
5	7400.073	-42.57	-13.00	Vertical	PASS
6	11833.279	-38.28	-13.00	Vertical	PASS

GSM1900(EDGE), Mid Channel

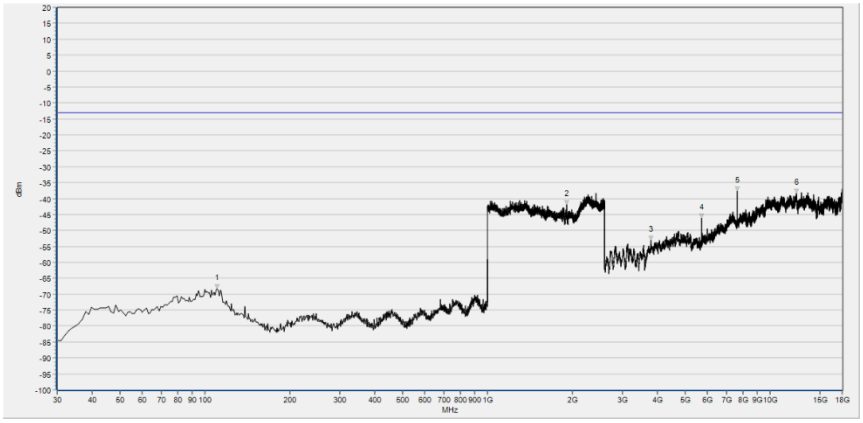


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-67.68	-13.00	Horizontal	PASS
2	1879.712	-38.56	-13.00	Horizontal	N/A
3	3126.496	-53.74	-13.00	Horizontal	PASS
4	5638.552	-41.78	-13.00	Horizontal	PASS
5	7520.495	-42.28	-13.00	Horizontal	PASS
6	13698.418	-37.30	-13.00	Horizontal	PASS

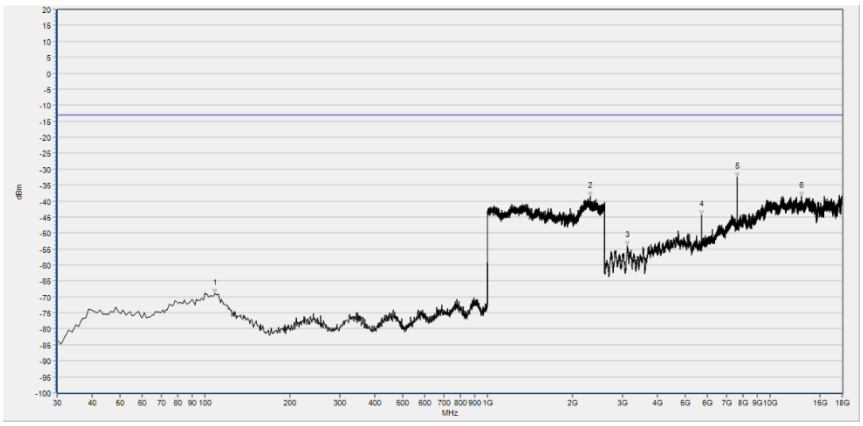


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	103.720	-68.94	-13.00	Vertical	PASS
2	2251.701	-39.31	-13.00	Vertical	N/A
3	5109.256	-48.33	-13.00	Vertical	PASS
4	5638.552	-41.94	-13.00	Vertical	PASS
5	7520.495	-41.57	-13.00	Vertical	PASS
6	12384.979	-38.49	-13.00	Vertical	PASS

GSM1900(EDGD), High Channel

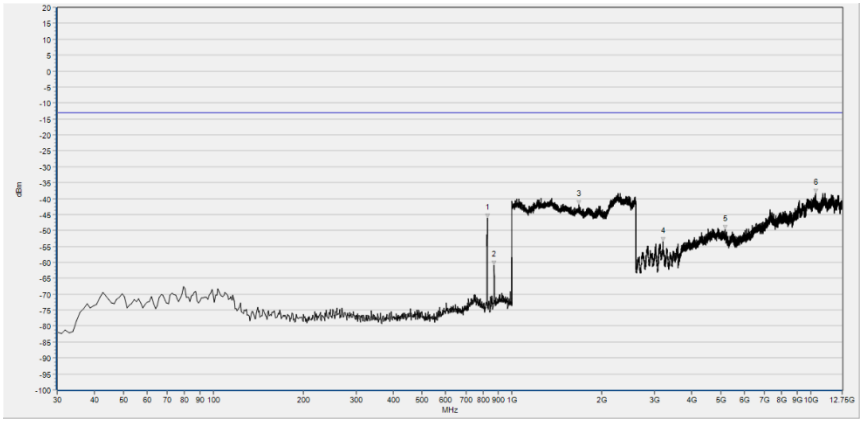


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	110.510	-68.22	-13.00	Horizontal	PASS
2	1909.804	-41.86	-13.00	Horizontal	N/A
3	3798.618	-52.97	-13.00	Horizontal	PASS
4	5728.169	-46.22	-13.00	Horizontal	PASS
5	7638.116	-37.62	-13.00	Horizontal	PASS
6	12370.977	-38.30	-13.00	Horizontal	PASS

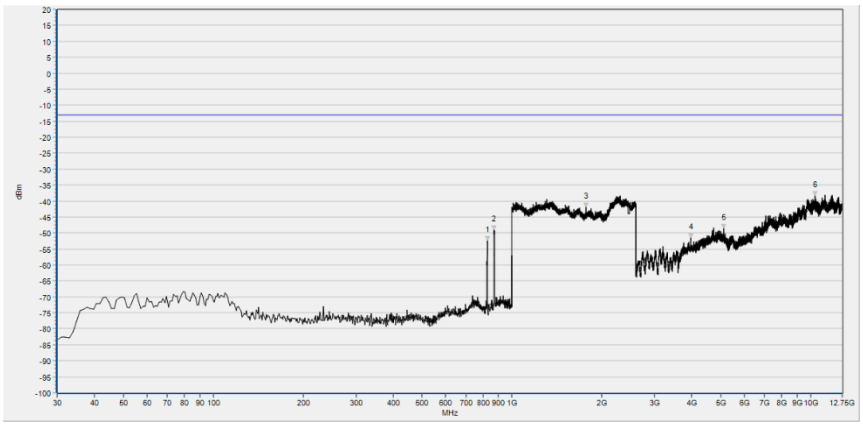


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	108.570	-68.84	-13.00	Vertical	PASS
2	2316.367	-38.66	-13.00	Vertical	PASS
3	3132.097	-54.00	-13.00	Vertical	PASS
4	5728.169	-44.43	-13.00	Vertical	PASS
5	7638.116	-32.40	-13.00	Vertical	PASS
6	12919.876	-38.49	-13.00	Vertical	PASS

WCDMA Band V(WCDMA), Low Channel

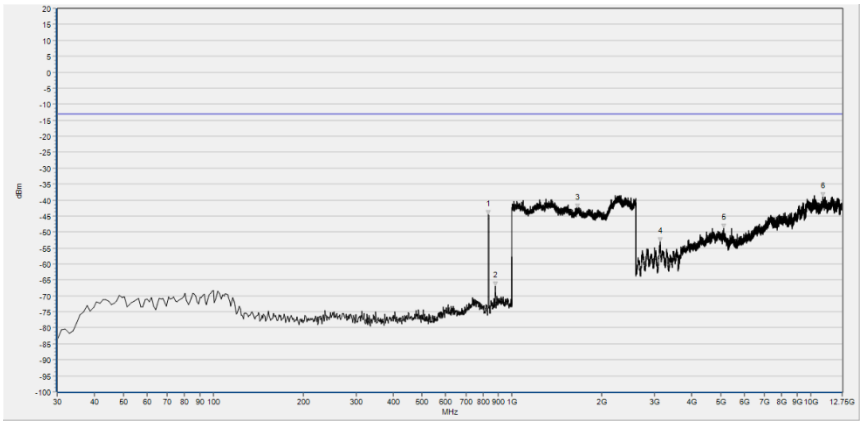


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-46.23	-13.00	Horizontal	N/A
2	870.020	-60.81	-13.00	Horizontal	N/A
3	1676.751	-41.80	-13.00	Horizontal	PASS
4	3199.882	-53.62	-13.00	Horizontal	PASS
5	5161.957	-49.71	-13.00	Horizontal	PASS
6	10416.921	-38.42	-13.00	Horizontal	PASS

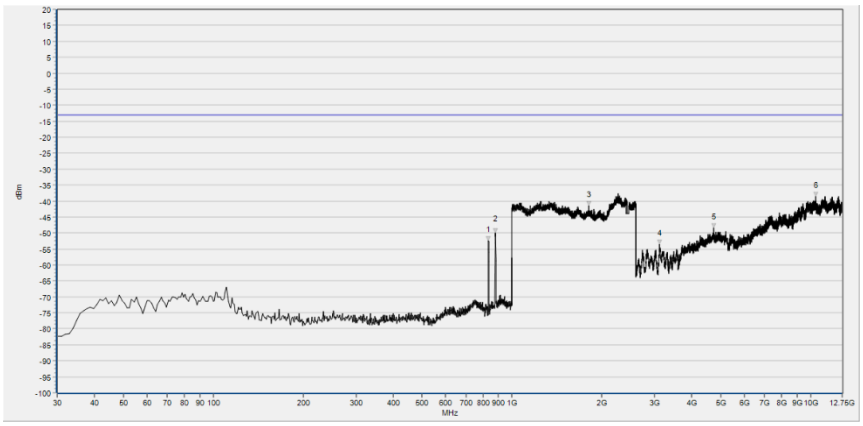


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-52.39	-13.00	Vertical	N/A
2	870.990	-49.13	-13.00	Vertical	N/A
3	1772.149	-41.93	-13.00	Vertical	PASS
4	3962.193	-51.59	-13.00	Vertical	PASS
5	5112.120	-48.65	-13.00	Vertical	PASS
6	10346.781	-38.38	-13.00	Vertical	PASS

WCDMA Band V(WCDMA), Mid Channel

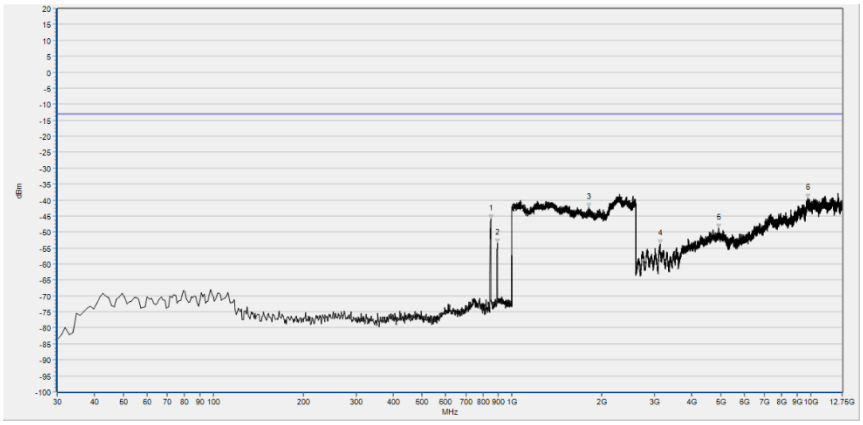


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	834.130	-44.63	-13.00	Horizontal	N/A
2	878.750	-66.82	-13.00	Horizontal	N/A
3	1656.903	-42.57	-13.00	Horizontal	PASS
4	3133.433	-53.07	-13.00	Horizontal	PASS
5	5106.583	-48.80	-13.00	Horizontal	PASS
6	10985.425	-38.96	-13.00	Horizontal	PASS

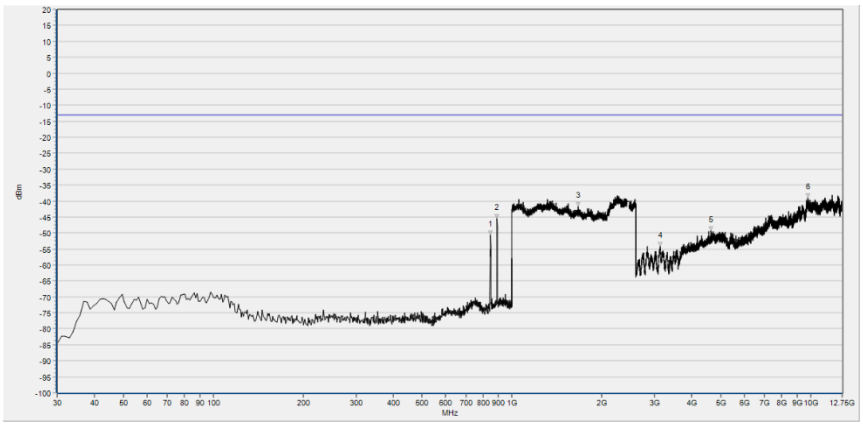


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	834.130	-52.33	-13.00	Vertical	N/A
2	878.750	-50.05	-13.00	Vertical	N/A
3	1811.845	-41.47	-13.00	Vertical	PASS
4	3122.359	-53.55	-13.00	Vertical	PASS
5	4735.579	-48.36	-13.00	Vertical	PASS
6	10426.150	-38.66	-13.00	Vertical	PASS

WCDMA Band V(WCDMA), High Channel

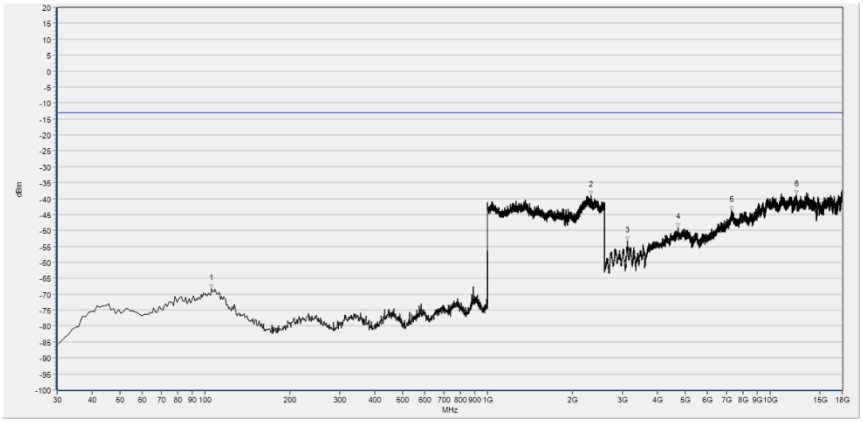


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-45.95	-13.00	Horizontal	N/A
2	893.300	-53.53	-13.00	Horizontal	N/A
3	1807.363	-42.37	-13.00	Horizontal	PASS
4	3129.742	-53.83	-13.00	Horizontal	PASS
5	4914.621	-48.86	-13.00	Horizontal	PASS
6	9815.194	-39.50	-13.00	Horizontal	PASS

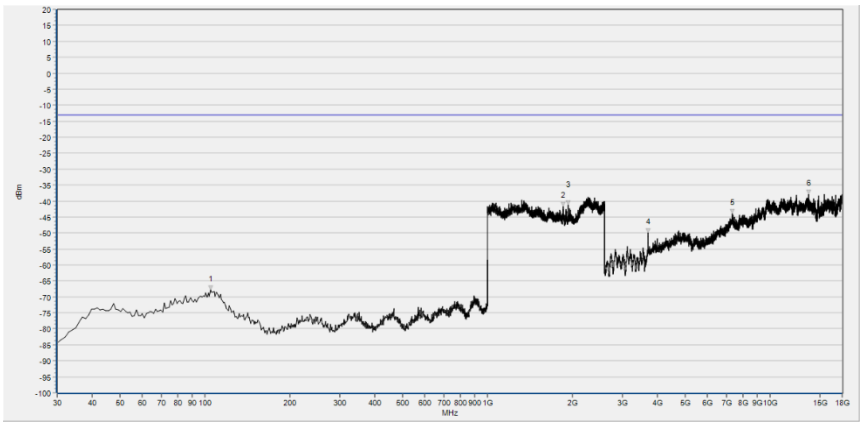


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	847.710	-50.53	-13.00	Vertical	N/A
2	891.360	-45.51	-13.00	Vertical	N/A
3	1667.787	-41.74	-13.00	Vertical	PASS
4	3133.433	-54.16	-13.00	Vertical	PASS
5	4645.135	-49.37	-13.00	Vertical	PASS
6	9813.348	-38.96	-13.00	Vertical	PASS

WCDMA Band II(WCDMA), Low Channel

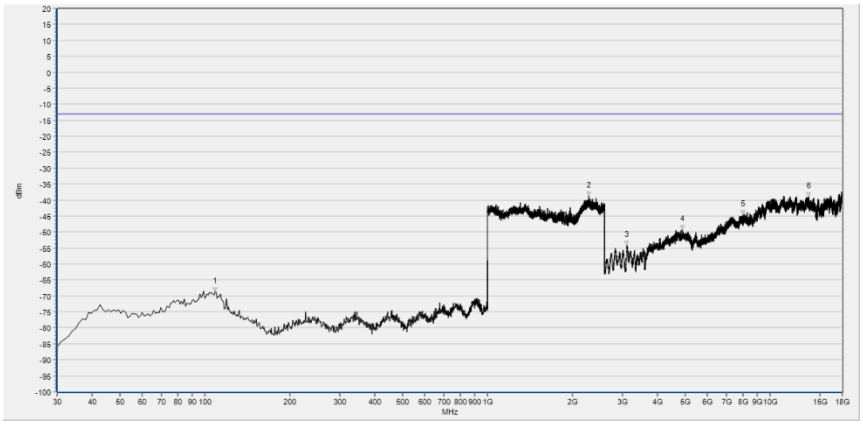


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-68.31	-13.00	Horizontal	PASS
2	2323.409	-39.01	-13.00	Horizontal	PASS
3	3134.897	-53.28	-13.00	Horizontal	PASS
4	4733.988	-48.95	-13.00	Horizontal	PASS
5	7321.658	-43.75	-13.00	Horizontal	PASS
6	12401.782	-38.80	-13.00	Horizontal	PASS

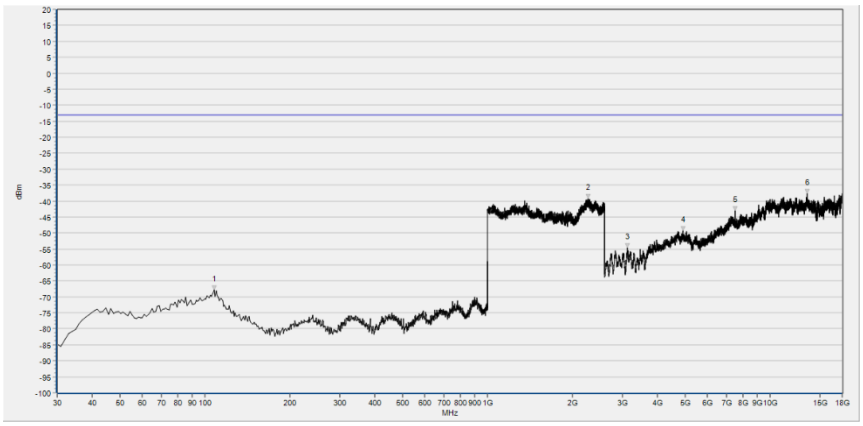


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	104.690	-67.81	-13.00	Vertical	PASS
2	1851.541	-41.70	-13.00	Vertical	N/A
3	1932.853	-41.26	-13.00	Vertical	N/A
4	3706.201	-49.87	-13.00	Vertical	PASS
5	7330.060	-43.88	-13.00	Vertical	PASS
6	13664.812	-37.98	-13.00	Vertical	PASS

WCDMA Band II(WCDMA), Mid Channel

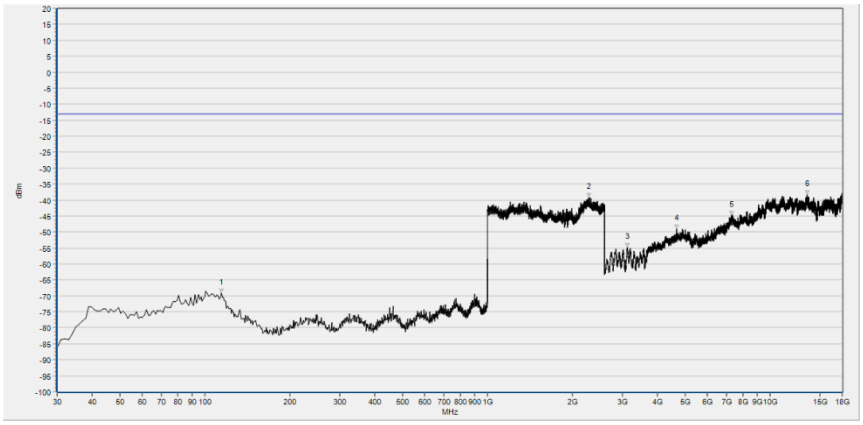


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	108.570	-68.69	-13.00	Horizontal	PASS
2	2282.433	-38.73	-13.00	Horizontal	PASS
3	3115.294	-54.25	-13.00	Horizontal	PASS
4	4904.819	-49.19	-13.00	Horizontal	PASS
5	8024.586	-44.62	-13.00	Horizontal	PASS
6	13687.216	-39.09	-13.00	Horizontal	PASS

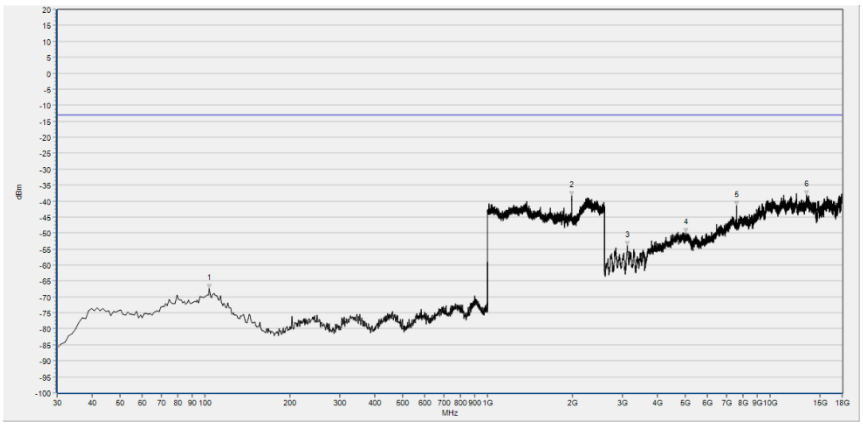


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-67.91	-13.00	Vertical	PASS
2	2276.030	-39.33	-13.00	Vertical	PASS
3	3120.895	-54.69	-13.00	Vertical	PASS
4	4907.620	-49.22	-13.00	Vertical	PASS
5	7520.495	-42.97	-13.00	Vertical	PASS
6	13505.183	-37.73	-13.00	Vertical	PASS

WCDMA Band II(WCDMA), High Channel



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	114.390	-69.23	-13.00	Horizontal	PASS
2	2282.433	-39.15	-13.00	Horizontal	PASS
3	3126.496	-54.95	-13.00	Horizontal	PASS
4	4680.778	-49.11	-13.00	Horizontal	PASS
5	7302.055	-44.70	-13.00	Horizontal	PASS
6	13507.983	-38.39	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	103.720	-67.34	-13.00	Vertical	PASS
2	1986.635	-38.26	-13.00	Vertical	N/A
3	3129.296	-54.03	-13.00	Vertical	PASS
4	5042.044	-50.02	-13.00	Vertical	PASS
5	7629.714	-41.54	-13.00	Vertical	PASS
6	13488.380	-38.18	-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	±2.22dB
Bandwidth	±5%
Conducted Spurious Emission	±2.77dB
Radiated Emission	±2.95dB

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	2024.06.19	2025.06.18
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
MORLAB EMCR	MORLAB	V1.2

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	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
Notch Filter	N/A	WRCG-GSM 850	Wainwright	N/A	N/A
Notch Filter	N/A	WRCG-GSM 1900	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band V	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band II	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band IV	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

END OF REPORT