FCC RF Test Report

APPLICANT	:	Quectel Wireless Solutions Co., Ltd.
EQUIPMENT	:	LTE Module
BRAND NAME	:	Quectel
MODEL NAME	:	SC20-A
FCC ID	:	XMR201706SC20A
STANDARD	:	FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)

The product was received on Apr. 10, 2017 and testing was completed on Jun. 28, 2017. We, Sporton International (KunShan) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) INC., the test report shall not be reproduced except in full.

James Huang

Prepared by: James Huang / Manager

Jones Tsai

Approved by: Jones Tsai / Manager

Testing Laboratory 2627

Sporton International (KunShan) INC.

No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG741007A	Rev. 01	Initial issue of report	Aug. 11, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049 §22.917(b) §24.238(b) §27.53(g)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 30.73 dB at 2546.00 MHz

1 General Description

1.1 Applicant

Quectel Wireless Solutions Co., Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE Module
Brand Name	Quectel
Model Name	SC20-A
FCC ID	XMR201706SC20A
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth v3.0+EDR/ Bluetooth v 4.1LE
IMEI Code	Conducted:861097036480493/861097036480501 Radiation: 861097036472730/ 861097036472748
HW Version	R1.0
SW Version	SC20ASAR04A03H8G
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	**GSM/GPRS/EDGE:** 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz **WCDMA:** Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
Rx Frequency	**GSM/GPRS/EDGE:** 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz **WCDMA:** Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
Maximum Output Power to Antenna	**GSM/GPRS/EDGE:** 850: 32.67 dBm 1900: 30.45 dBm **WCDMA:** Band V: 23.65 dBm Band II: 23.54 dBm Band IV: 23.76 dBm
Antenna Type	Dipole Antenna
Antenna Gain	Cellular Band: 2.0 dBi PCS Band: 2.0 dBi AWS Band: 2.0 dBi
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	1.7865	0.0203 ppm	243KGXW
Part 22	GSM850 EDGE	8PSK	0.4753	0.0430 ppm	247KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	BPSK	0.2239	0.0215 ppm	4M15F9W
Part 24	GSM1900 GSM	GMSK	1.7579	0.0122 ppm	245KGXW
Part 24	GSM1900 EDGE	8PSK	0.6871	0.0117 ppm	248KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	BPSK	0.3581	0.0213 ppm	4M15F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	BPSK	0.3767	0.0144 ppm	4M15F9W

1.7 Testing Location

Test Site	Sporton International (KunShan) INC.		
Test Site Location	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	**Sporton Site No.**		**FCC Registration No.**
	TH01-KS	03CH03-KS	306251

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

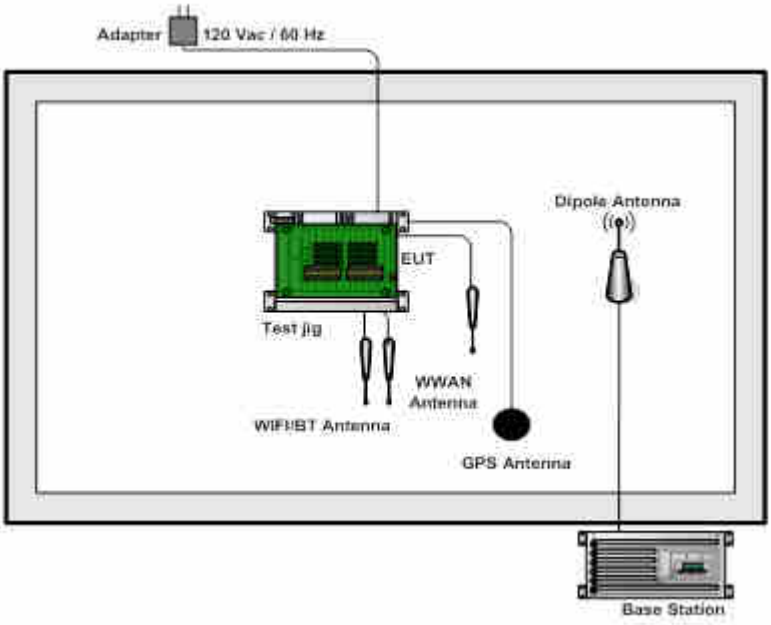
1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	**Radiated TCs**	**Conducted TCs**
GSM 850	■ GSM Link ■ EDGE Link	■ GSM Link ■ EDGE Link
GSM 1900	■ GSM Link ■ EDGE Link	■ GSM Link ■ EDGE Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Adapter	N/A	P-050B	N/A	N/A	Unshielded, 1.8 m
4.	Test Jig	N/A	N/A	N/A	N/A	N/A
5.	Dipole WWAN Antenna	Saintenna	SAA30968A	N/A	N/A	N/A
6.	Dipole WLAN/BT Antenna	INPAQ	DAM-L0-H-N0-000-08-13	N/A	N/A	N/A
7.	GNSS Antenna	INPAQ	03D-S3-00-A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable l*oss 4.8 dB and a 10dB atte*nuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

*= 4.8 + 10 = 14.8 (d*B)

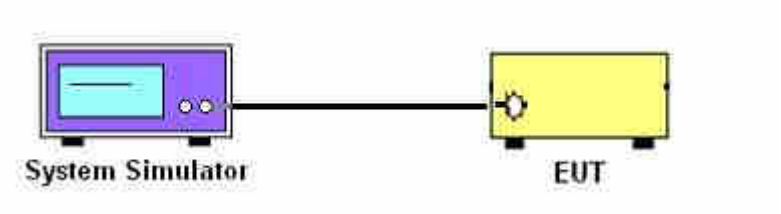
3 Conducted Test Result

3.1 Measuring Instruments

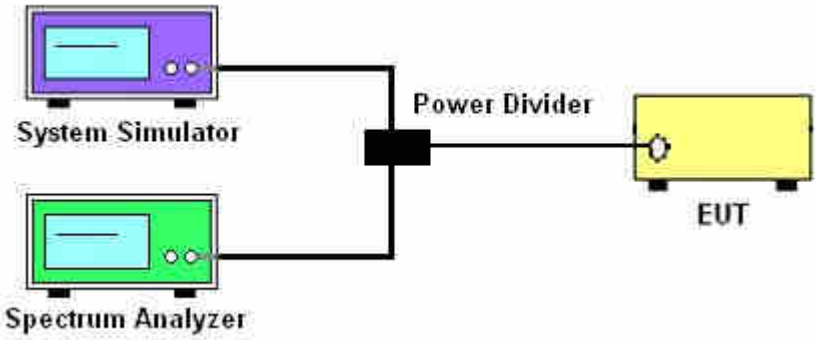
See list of measuring instruments of this test report.

3.2 Test Setup

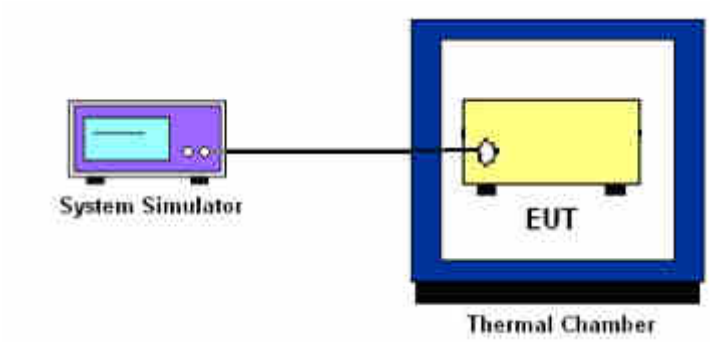
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. Set EUT to transmit at maximum output power.
4. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.

Record the maximum PAPR level associated with a probability of 0.1%.

3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
   =P(W) - [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

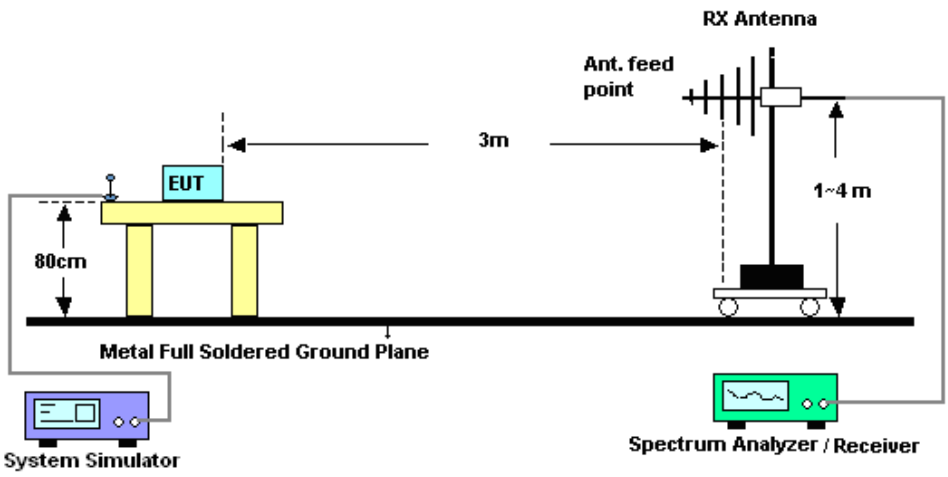
4 Radiated Test Items

4.1 Measuring Instruments

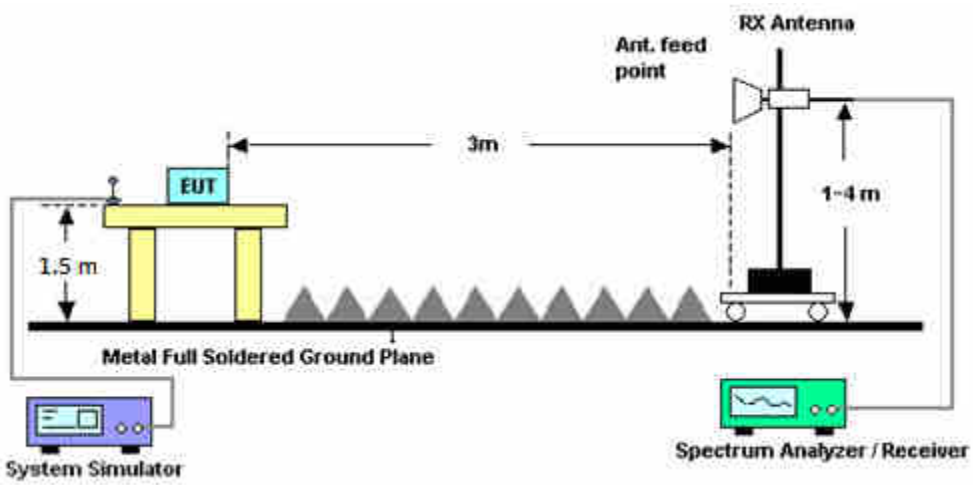
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (dBm) = EIRP - 2.15
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

    = P(W) - [43 + 10log(P)] (dB)

    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

    = -13dBm.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 09, 2016	Jun. 01,2017~ Jun. 15, 2017	Aug. 08, 2017	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 13, 2016	Jun. 01,2017~ Jun. 15, 2017	Oct.13, 2017	Conducted (TH01-KS)
Base Station	R&S	CMW500	132725	LTE Full Band	Jan. 19, 2017	Jun. 01,2017~ Jun. 15, 2017	Jan. 18, 2018	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Apr. 18, 2017	Jun. 28, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz-2GHz	Apr. 22, 2017	Jun. 28, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120 D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Jun. 28, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz ~40GHz	Oct. 19, 2016	Jun. 28, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz ~1000MHz / 32 dB	Apr. 18, 2017	Jun. 28, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-	2025788	1Ghz-18Ghz	Apr. 18.2017	Jun. 28, 2017	Apr. 17,2018	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Jun. 28, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 28, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 28, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 28, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required.

6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.8dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.3dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	**GSM850**			**GSM1900**		
Channel	**128**	**189**	**251**	**512**	**661**	**810**
Frequency	**824.2**	**836.4**	**848.8**	**1850.2**	**1880.0**	**1909.8**
GSM	32.55	32.66	**32.67**	30.03	**30.45**	30.42
GPRS class 8	32.53	32.64	32.65	29.99	30.43	30.40
GPRS class 10	32.41	32.52	32.56	29.92	30.30	30.30
GPRS class 11	30.96	31.05	31.12	29.81	30.21	30.22
GPRS class 12	29.58	29.71	29.80	29.69	30.11	30.14
EGPRS class 8	26.84	26.87	26.92	26.08	26.15	26.37
EGPRS class 10	26.76	26.75	26.87	25.94	26.05	26.27
EGPRS class 11	26.65	26.65	26.78	25.80	25.93	26.14
EGPRS class 12	26.54	26.57	26.68	25.70	25.78	26.00

Conducted Power (*Unit: dBm)									
Band	**WCDMA Band V**			**WCDMA Band II**			**WCDMA Band IV**		
Channel	**4132**	**4182**	**4233**	**9262**	**9400**	**9538**	**1312**	**1413**	**1513**
Frequency	**826.4**	**836.4**	**846.6**	**1852.4**	**1880**	**1907.6**	**1712.4**	**1732.6**	**1752.6**
AMR 12.2Kbps	23.59	23.52	23.63	23.51	23.52	23.51	23.75	23.64	23.60
RMC 12.2Kbps	23.61	23.55	**23.65**	23.52	**23.54**	**23.54**	**23.76**	23.65	23.61
HSDPA Subtest-1	22.47	22.49	22.57	22.18	22.39	22.40	22.54	22.50	22.43
HSDPA Subtest-2	22.38	22.58	22.65	22.31	22.53	22.39	22.54	22.59	22.49
HSDPA Subtest-3	22.06	22.09	22.16	21.81	22.04	21.92	22.04	22.10	22.01
HSDPA Subtest-4	22.03	22.07	22.15	21.81	22.04	21.91	22.03	22.10	22.00
DC-HSDPA Subtest-1	21.77	21.77	21.83	21.41	21.54	21.53	21.51	21.33	21.39
DC-HSDPA Subtest-2	21.80	21.71	21.80	21.46	21.55	21.55	21.51	21.42	21.35
DC-HSDPA Subtest-3	21.75	21.70	21.75	21.45	21.55	21.59	21.48	21.40	21.32
DC-HSDPA Subtest-4	21.71	21.71	21.73	21.44	21.59	21.50	21.45	21.55	21.30
HSUPA Subtest-1	22.19	22.29	22.30	22.33	22.32	22.37	22.48	22.57	22.36
HSUPA Subtest-2	20.92	20.93	21.08	20.89	21.03	21.22	21.03	21.39	21.05
HSUPA Subtest-3	20.99	20.92	20.96	20.91	21.03	21.03	21.12	21.22	21.05
HSUPA Subtest-4	21.58	21.29	21.36	21.23	21.61	21.31	21.58	21.49	21.35
HSUPA Subtest-5	22.40	22.40	22.36	22.30	22.49	22.45	22.61	22.57	22.40

ERP/EIRP

GSM850 (G_T - L_C= 2.00dBi)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.4	848.8
Conducted Power (dBm)	32.55	32.66	32.67
Conducted Power (Watts)	1.7989	1.8450	1.8493
ERP(dBm)	32.40	32.51	32.52
ERP(Watts)	1.7378	1.7824	1.7865

GSM1900 (G_T - L_C=2.00dBi)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
Conducted Power (dBm)	30.03	30.45	30.42
Conducted Power (Watts)	1.0069	1.1092	1.1015
EIRP(dBm)	32.03	32.45	32.42
EIRP(Watts)	1.5959	1.7579	1.7458

EDGE850 (G_T - L_C= 2.00dBi)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.4	848.8
Conducted Power (dBm)	26.84	26.87	26.92
Conducted Power (Watts)	0.4831	0.4864	0.4920
ERP(dBm)	26.69	26.72	26.77
ERP(Watts)	0.4667	0.4699	0.4753

EDGE1900 (G_T - L_C=2.00dBi)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
Conducted Power (dBm)	26.08	26.15	26.37
Conducted Power (Watts)	0.4055	0.4121	0.4335
EIRP(dBm)	28.08	28.15	28.37
EIRP(Watts)	0.6427	0.6531	0.6871

WCDMA Band V (G_T - L_C =2.00dBi)			
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency (MHz)	826.4	836.4	846.6
Conducted Power (dBm)	23.61	23.55	23.65
Conducted Power (Watts)	0.2296	0.2265	0.2317
ERP(dBm)	23.46	23.40	23.50
ERP(Watts)	0.2218	0.2188	0.2239

WCDMA Band II (G_T - L_C = 2.00dBi)			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency (MHz)	1852.4	1880	1907.6
Conducted Power (dBm)	23.52	23.54	23.54
Conducted Power (Watts)	0.2249	0.2259	0.2259
EIRP(dBm)	25.52	25.54	25.54
EIRP(Watts)	0.3565	0.3581	0.3581

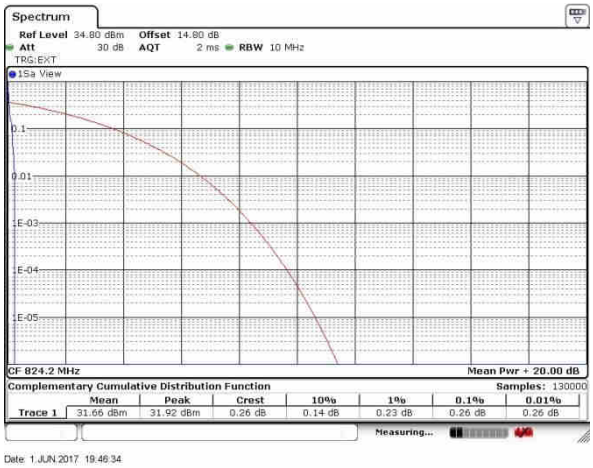
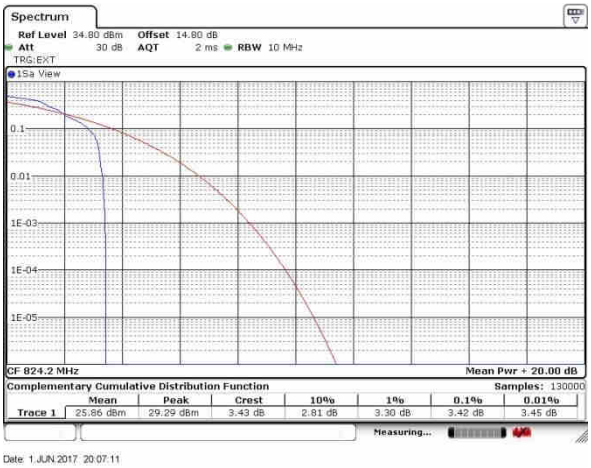
WCDMA Band IV (G_T - L_C = 2.00dBi)			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency (MHz)	1712.4	1732.6	1752.6
Conducted Power (dBm)	23.76	23.65	23.61
Conducted Power (Watts)	0.2377	0.2317	0.2296
EIRP(dBm)	25.76	25.65	25.61
EIRP(Watts)	0.3767	0.3673	0.3639

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.26	3.42	PASS
Middle CH	0.26	3.30	
Highest CH	0.29	3.30	

Mode	GSM1900		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.29	3.51	PASS
Middle CH	0.32	3.51	
Highest CH	0.29	3.36	

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.04	3.10	3.01	PASS
Middle CH	3.04	3.16	3.10	
Highest CH	3.04	3.16	2.96	

GSM850 (GSM)	GSM850 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
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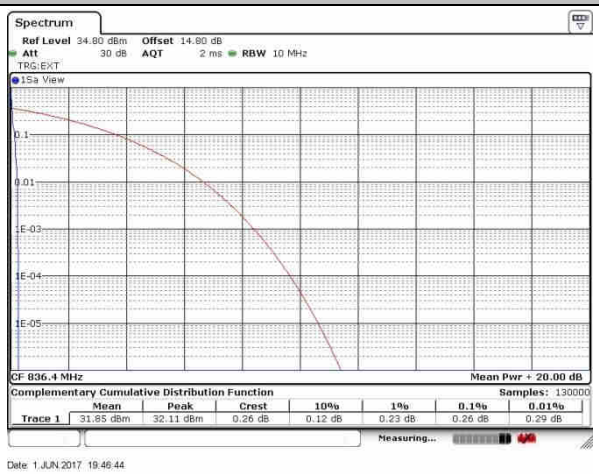	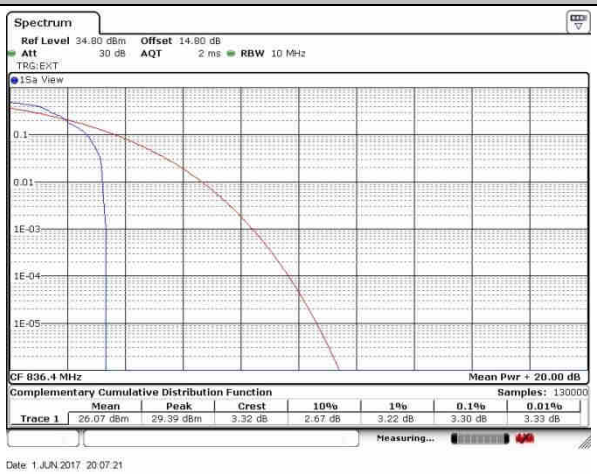
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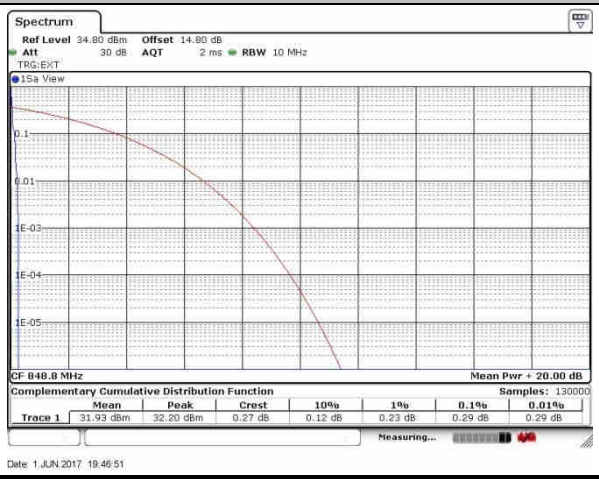
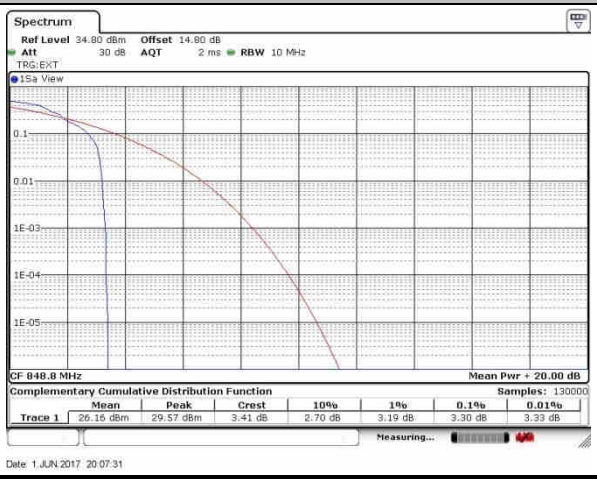
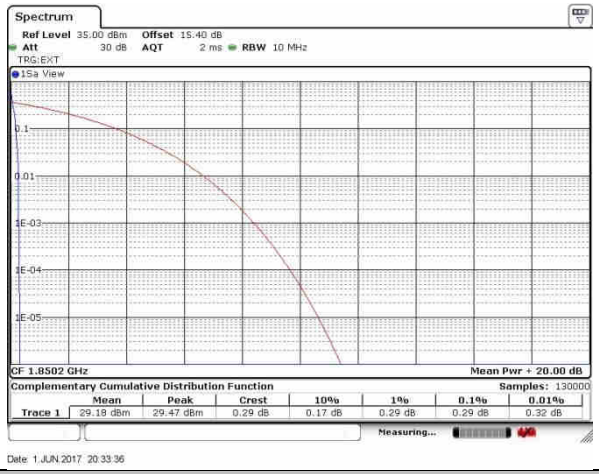
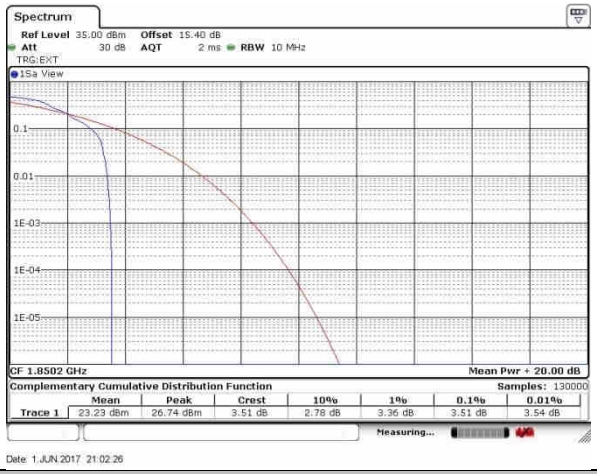
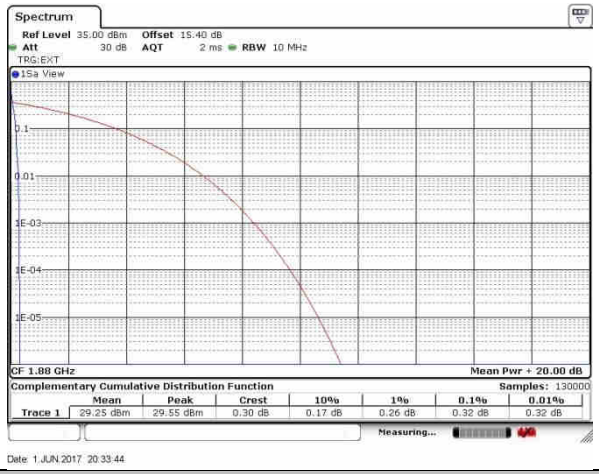
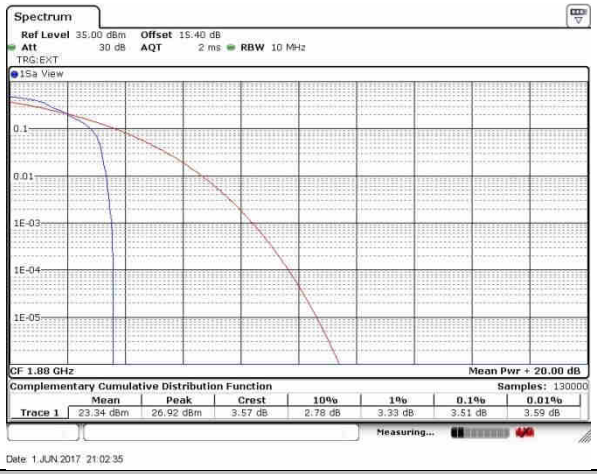
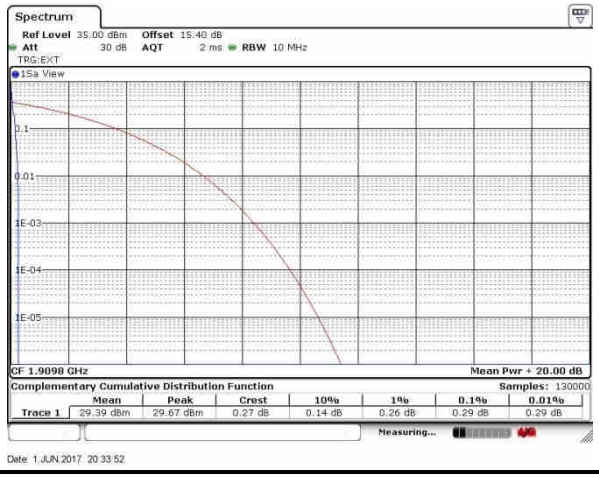
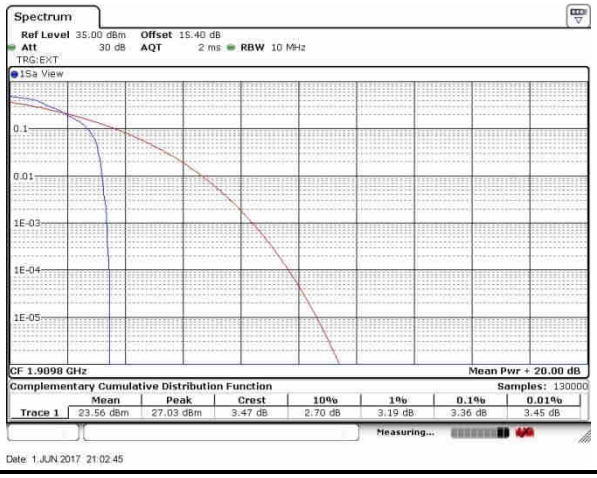
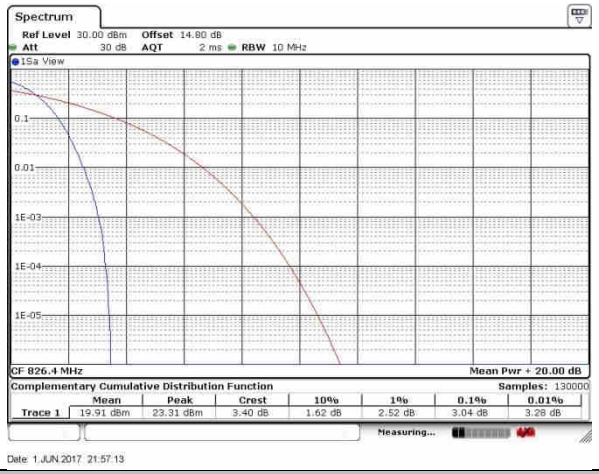
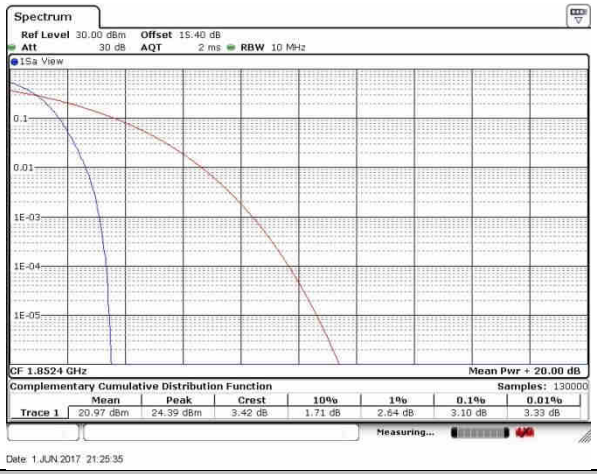
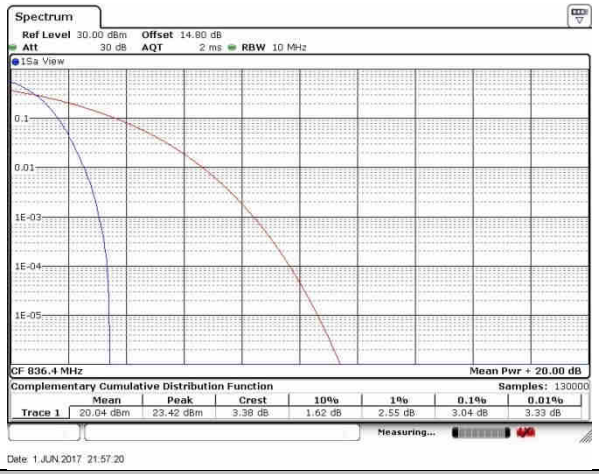
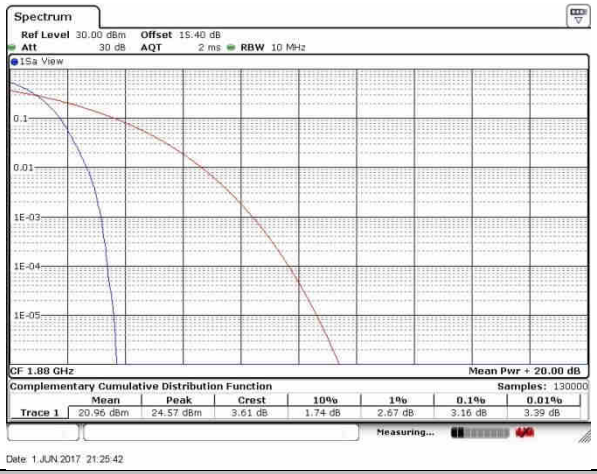
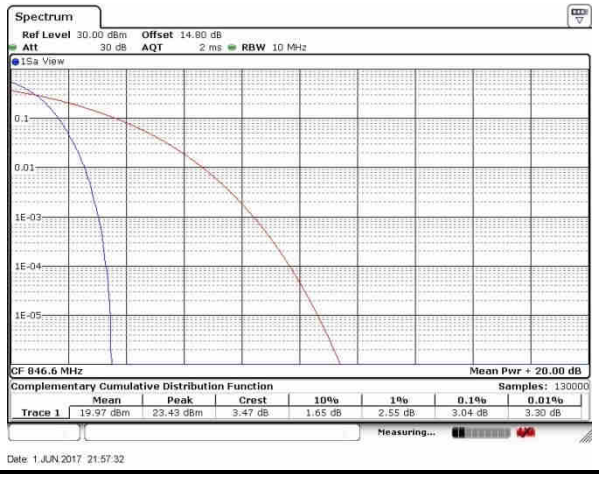
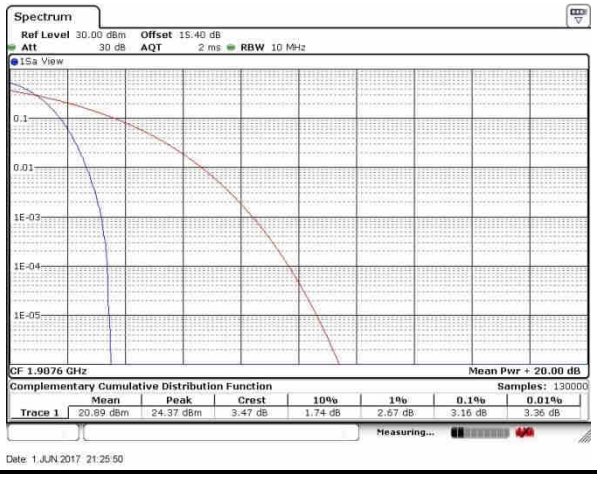
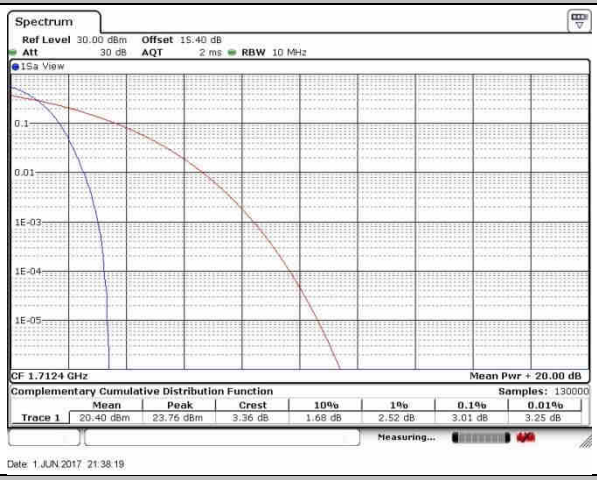
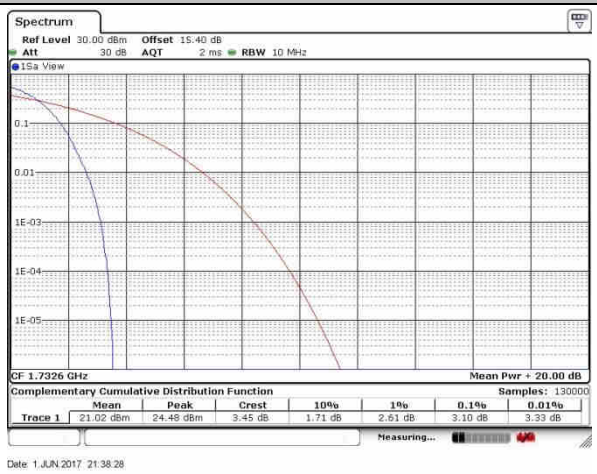
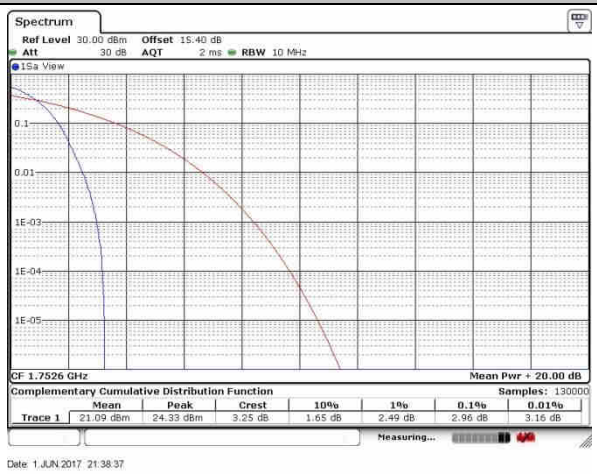
	

GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

26dB Bandwidth

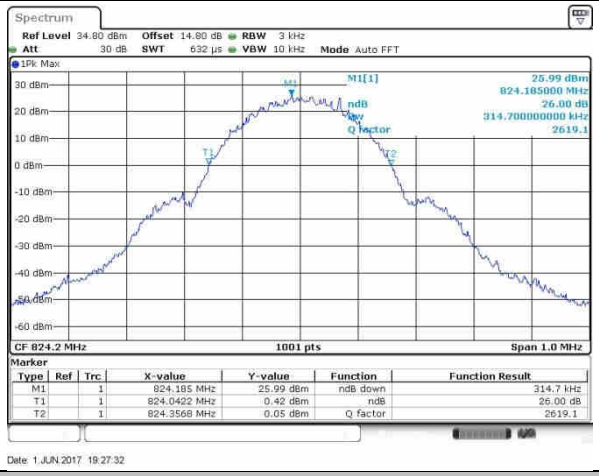
Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.315	0.313
Middle CH	0.315	0.311
Highest CH	0.315	0.314

Mode	GSM1900	
Mod.	GSM	EDGE class 8
Lowest CH	0.315	0.314
Middle CH	0.313	0.313
Highest CH	0.318	0.311

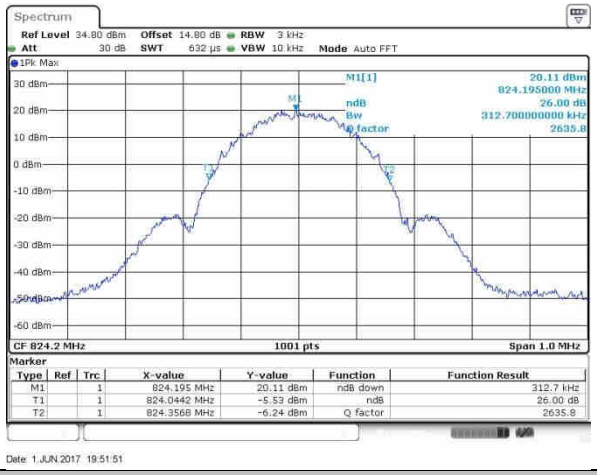
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.72	4.73	4.73
Middle CH	4.73	4.73	4.74
Highest CH	4.73	4.73	4.74

GSM850 (GSM)

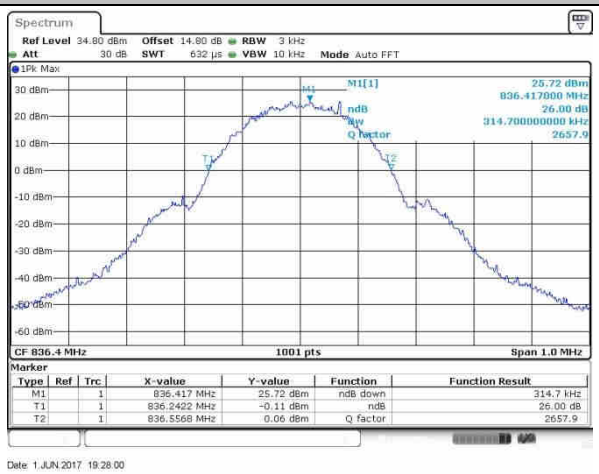
Lowest Channel



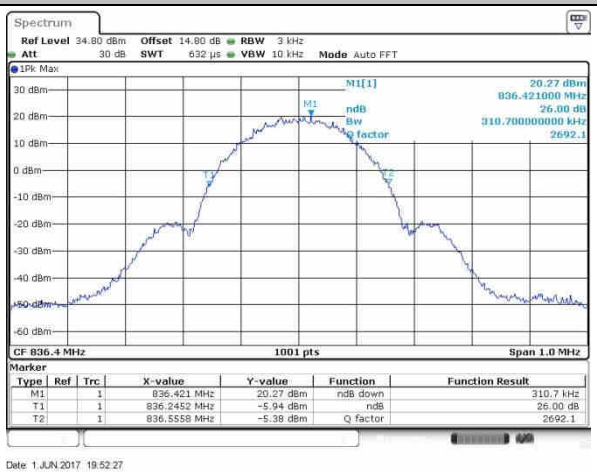
Lowest Channel



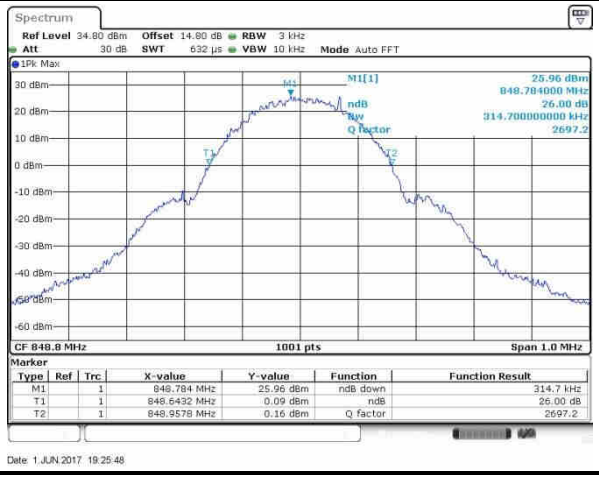
Middle Channel



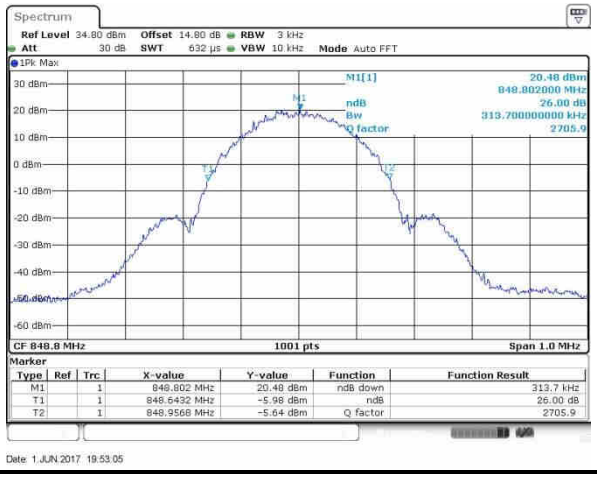
Middle Channel

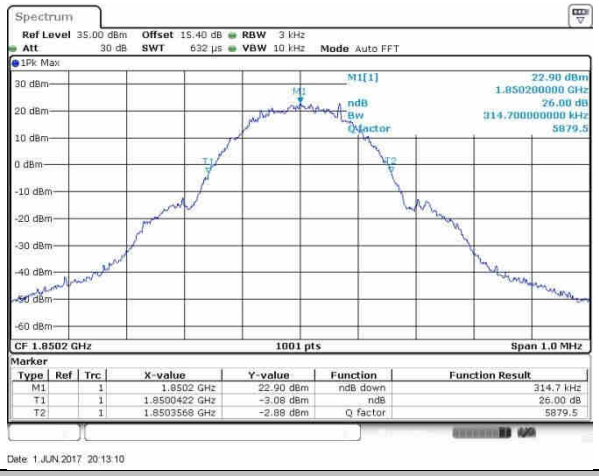
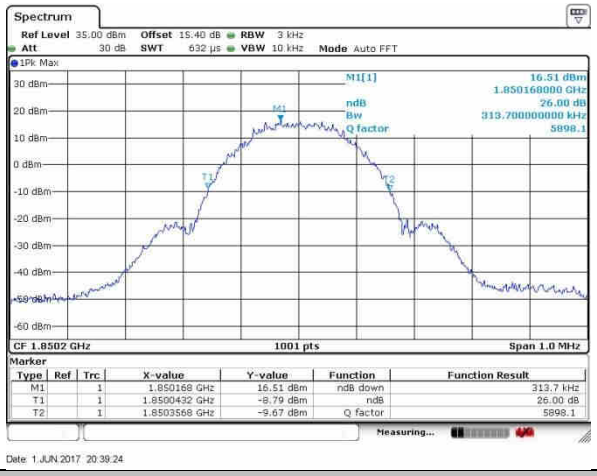
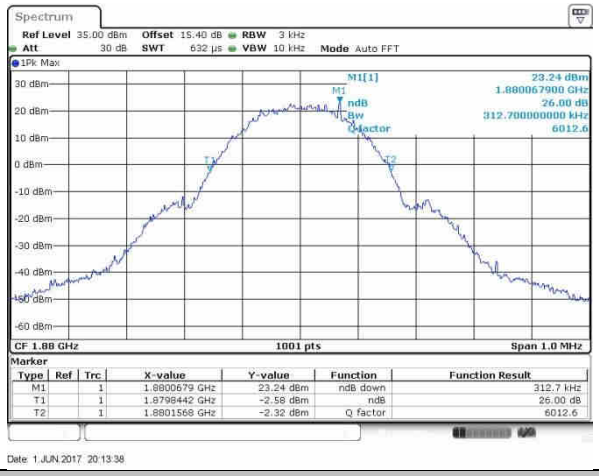
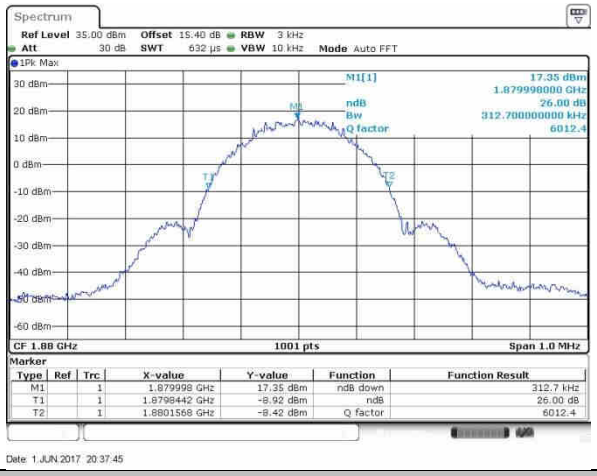
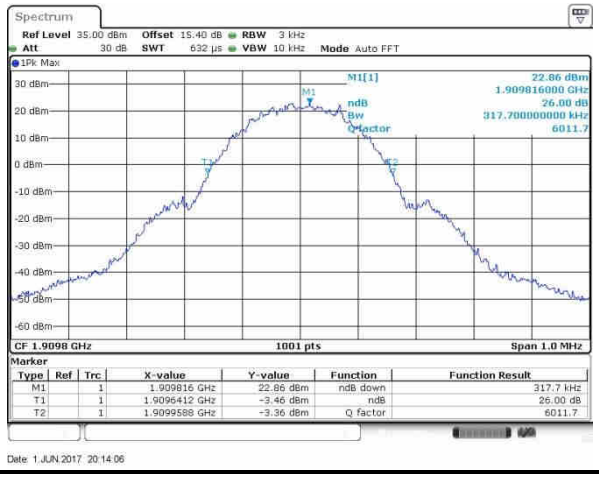
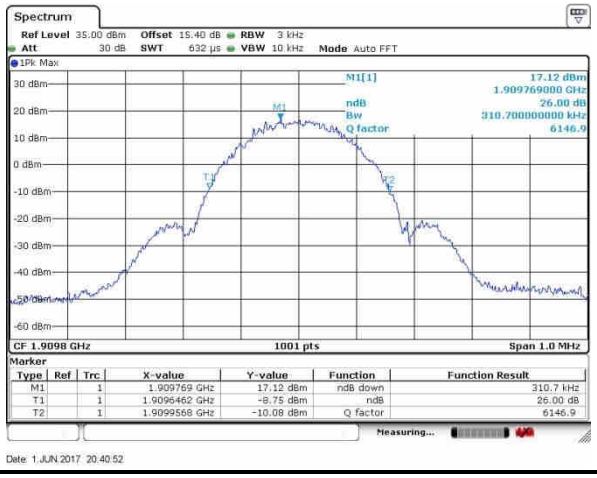


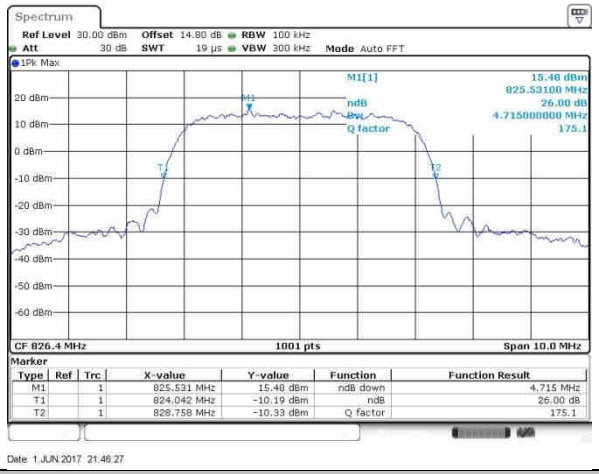
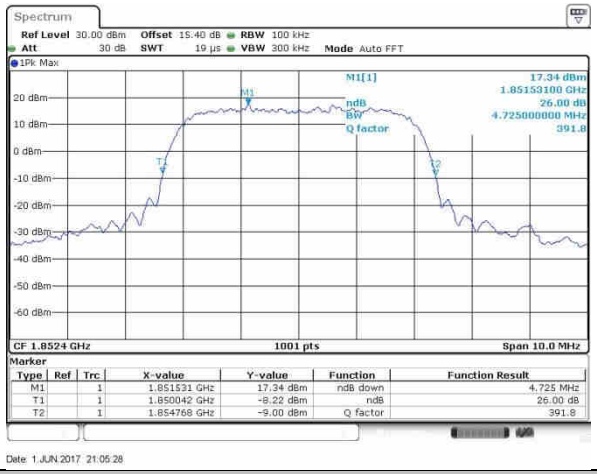
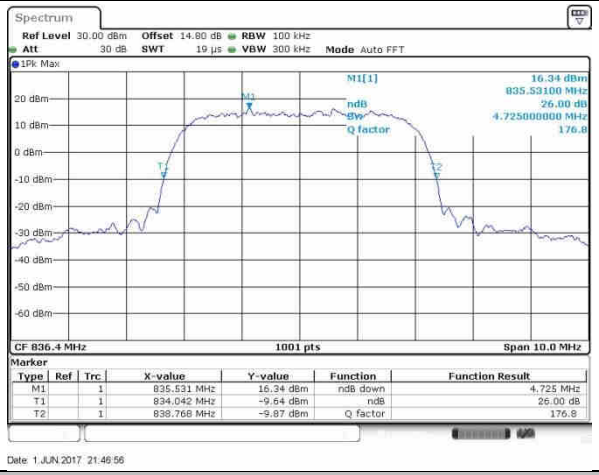
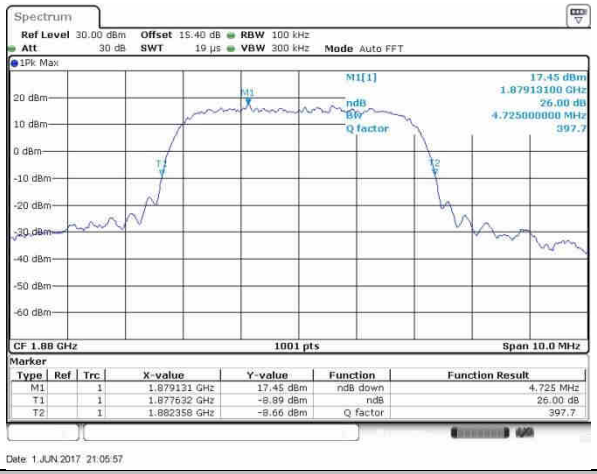
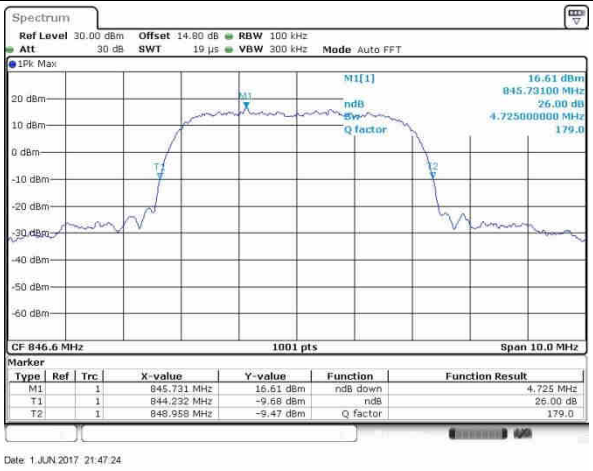
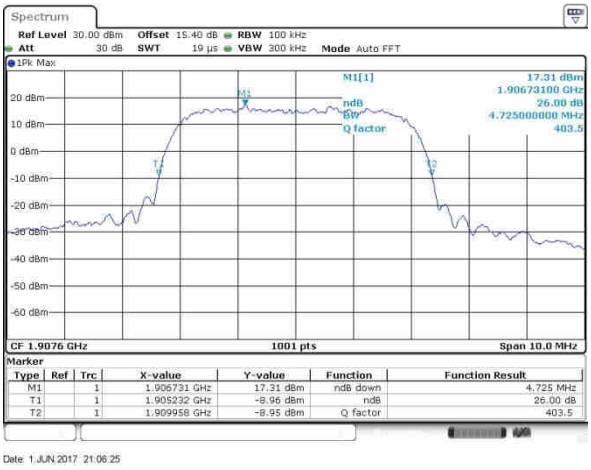
Highest Channel

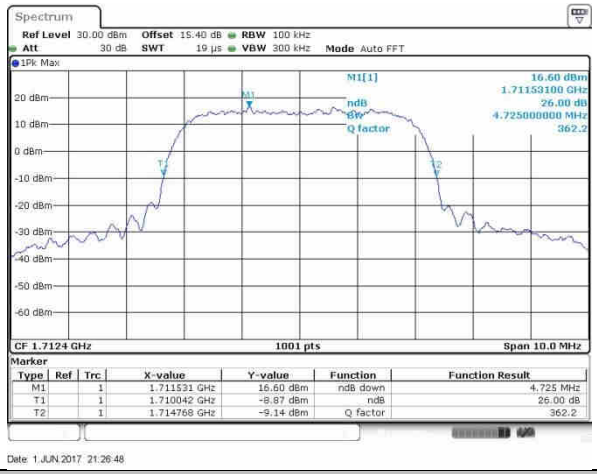
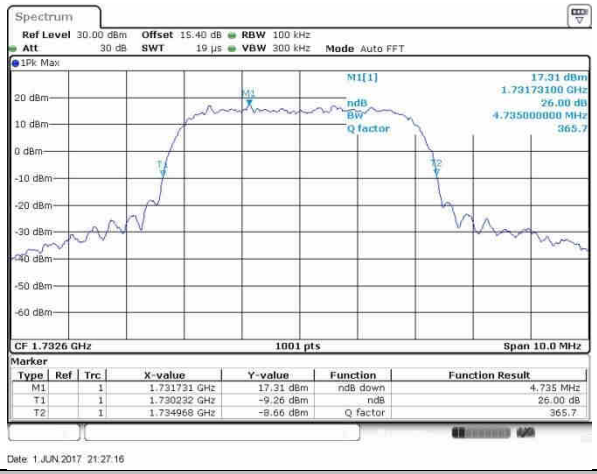
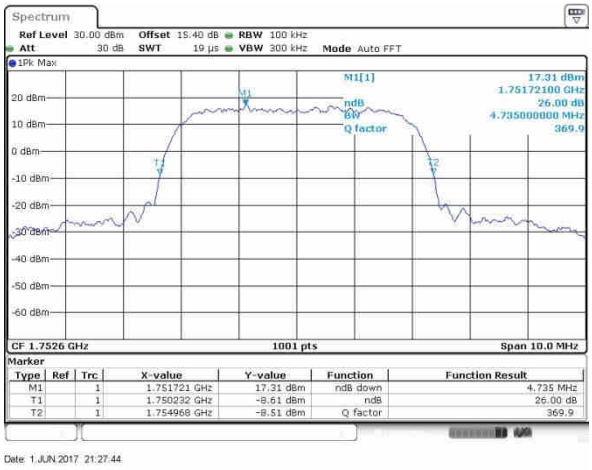


Highest Channel



GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

Occupied Bandwidth

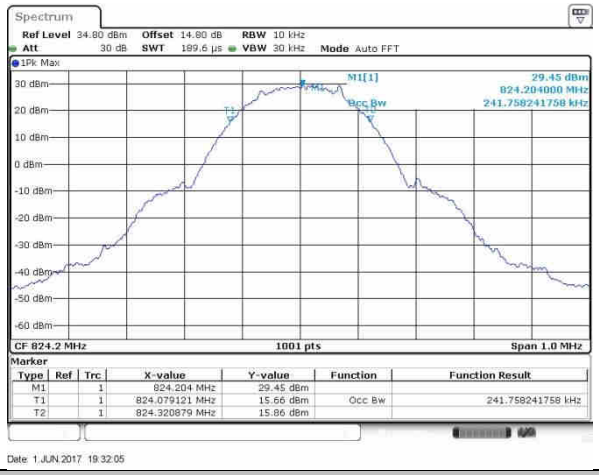
Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.245
Middle CH	0.243	0.247
Highest CH	0.242	0.242

Mode	GSM1900	
Mod.	GSM	EDGE class 8
Lowest CH	0.244	0.246
Middle CH	0.245	0.244
Highest CH	0.244	0.248

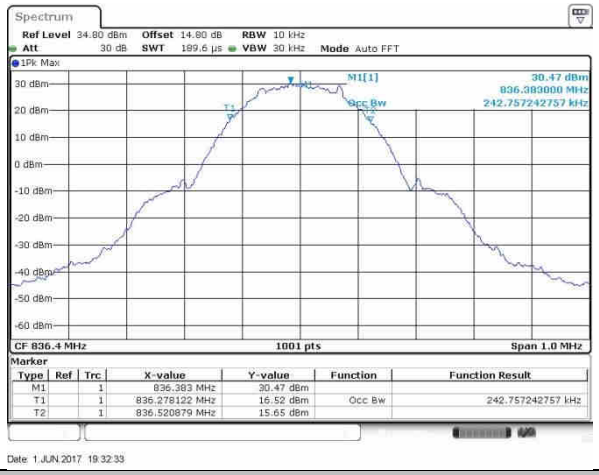
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.15	4.15	4.15
Middle CH	4.13	4.15	4.15
Highest CH	4.14	4.15	4.15

GSM850 (GSM)

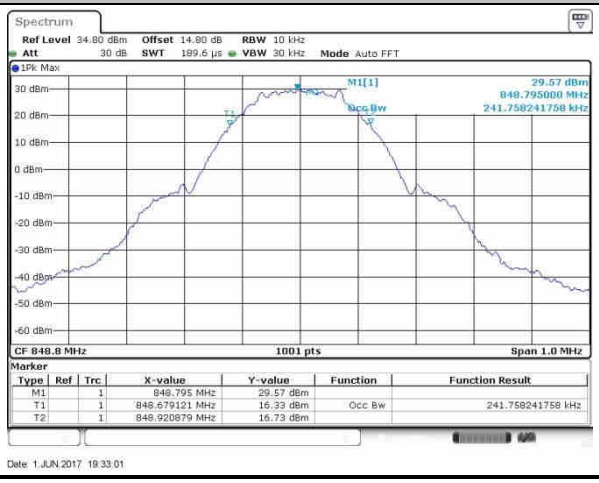
Lowest Channel



Middle Channel

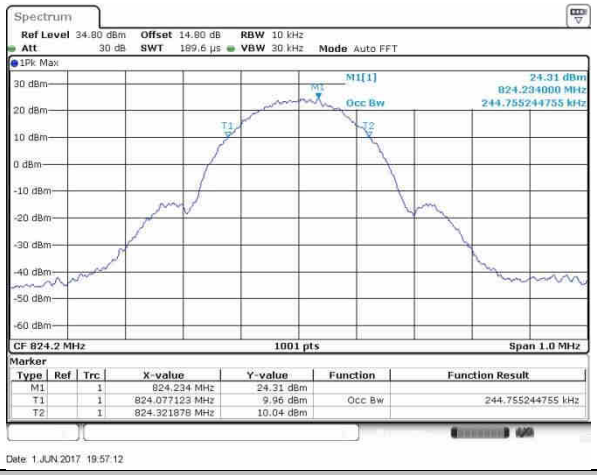


Highest Channel

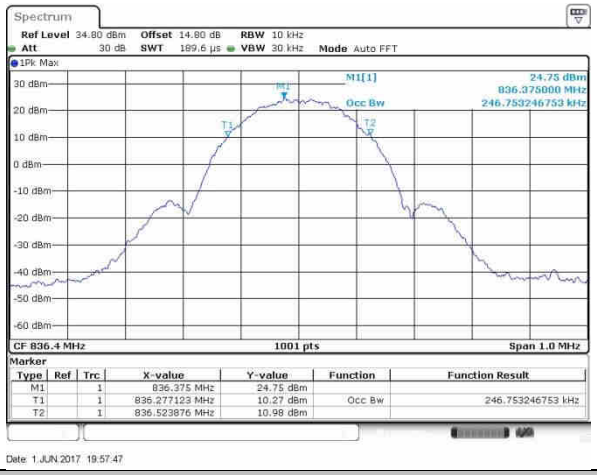


GSM850 (EDGE class 8)

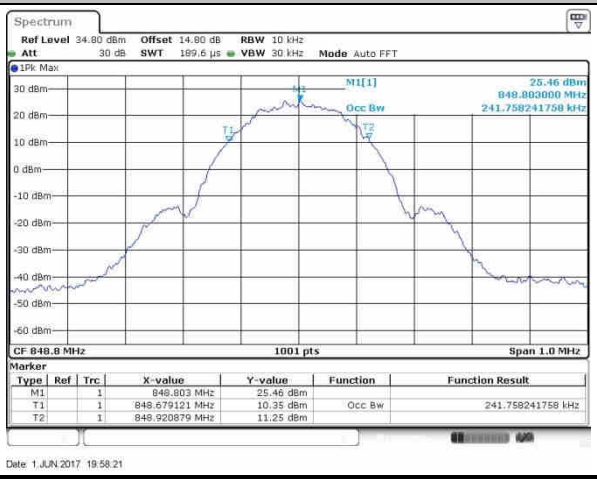
Lowest Channel

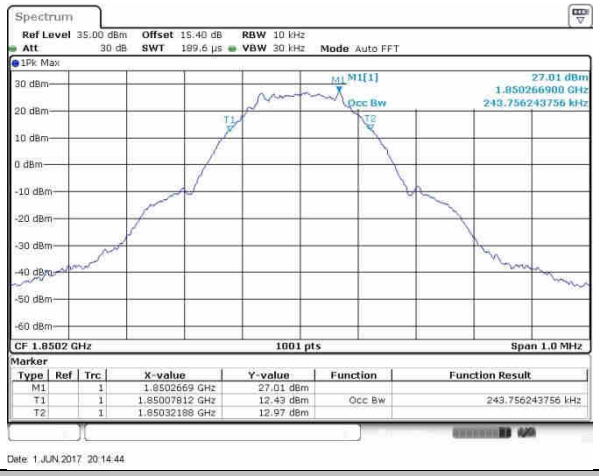
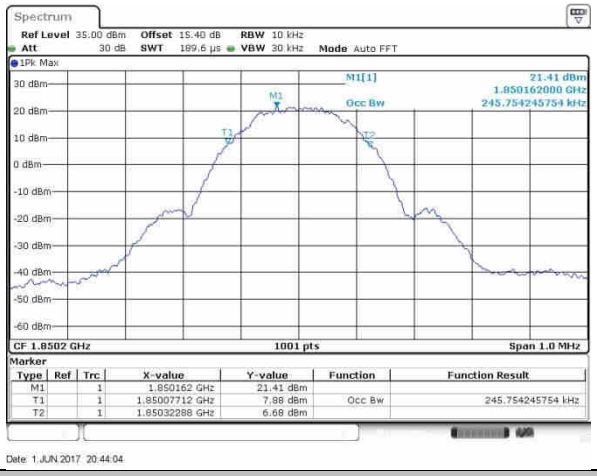
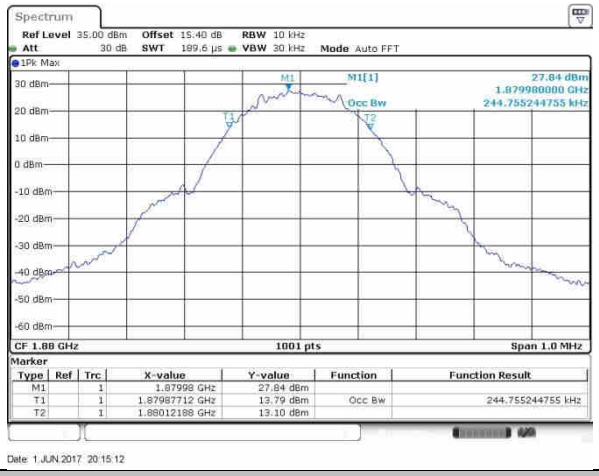
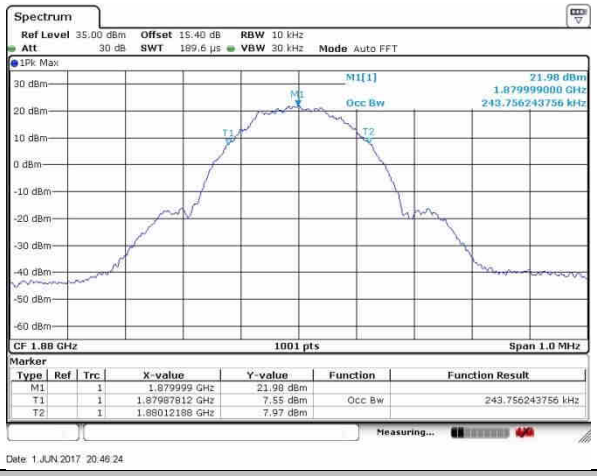
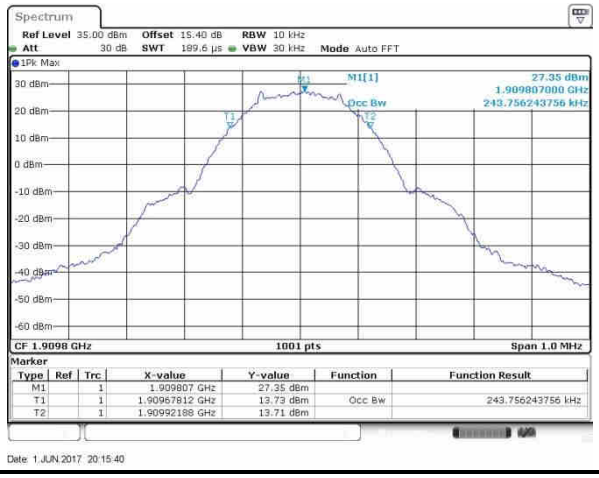
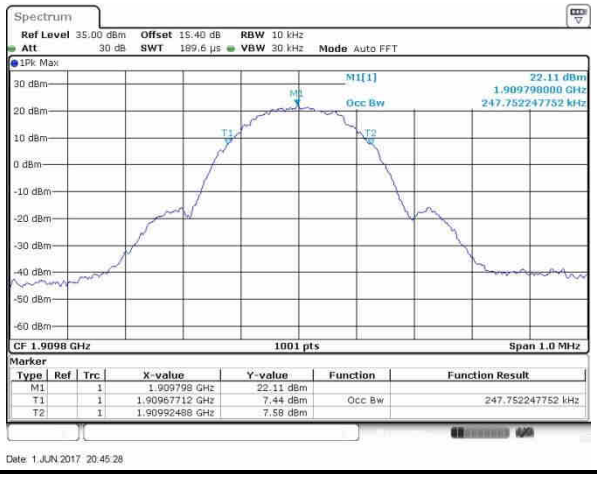


Middle Channel



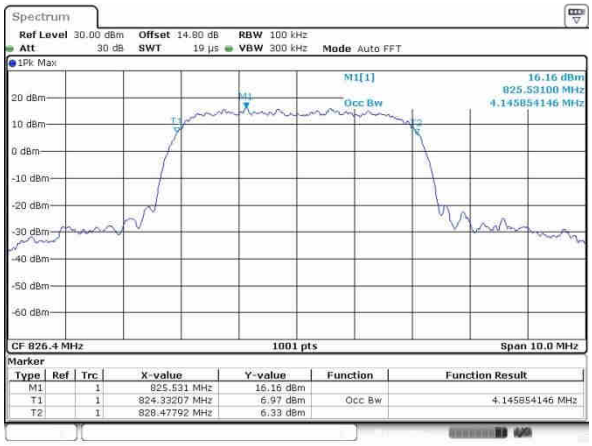
Highest Channel



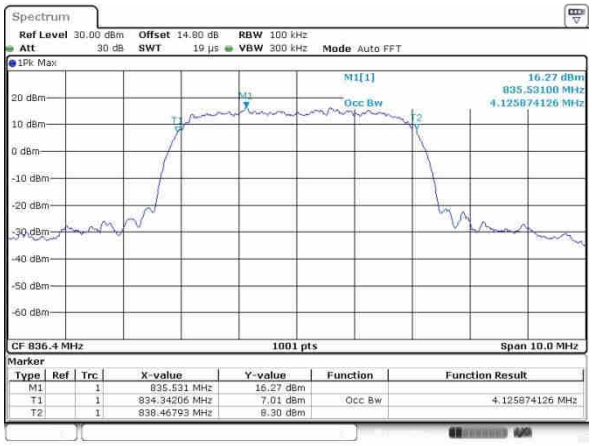
GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band V (RMC 12.2Kbps)

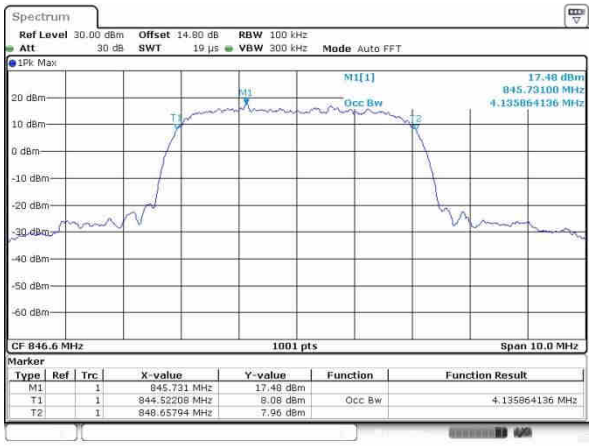
Lowest Channel



Middle Channel

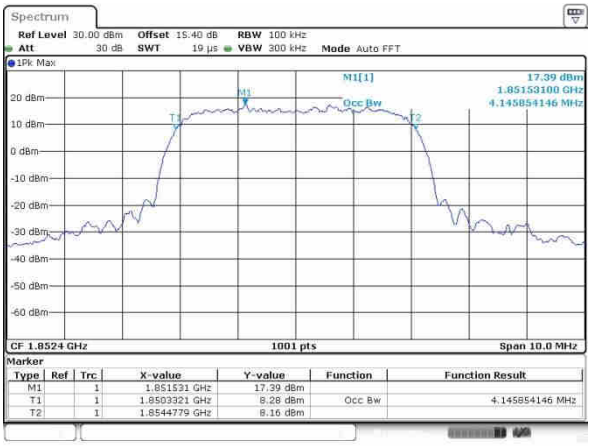


Highest Channel

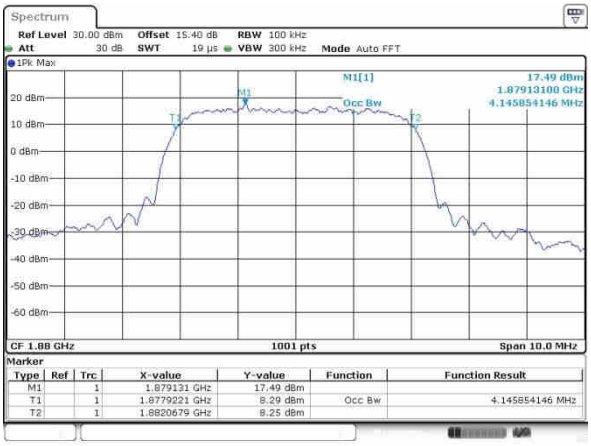


WCDMA Band II (RMC 12.2Kbps)

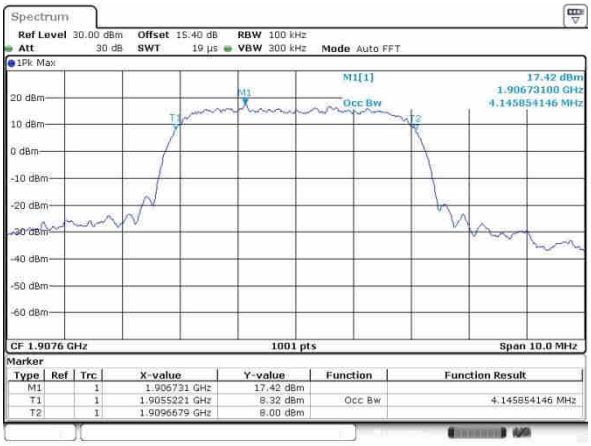
Lowest Channel

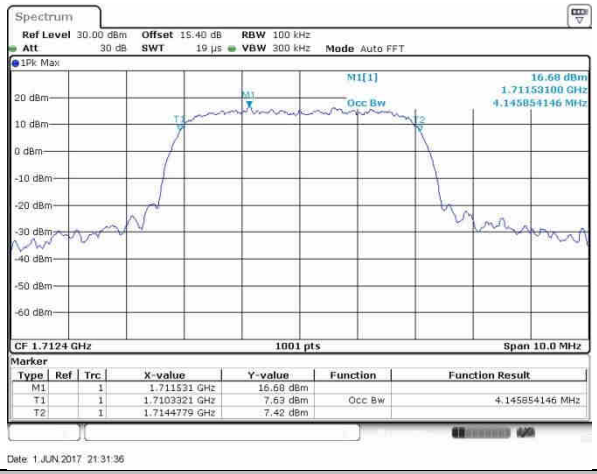
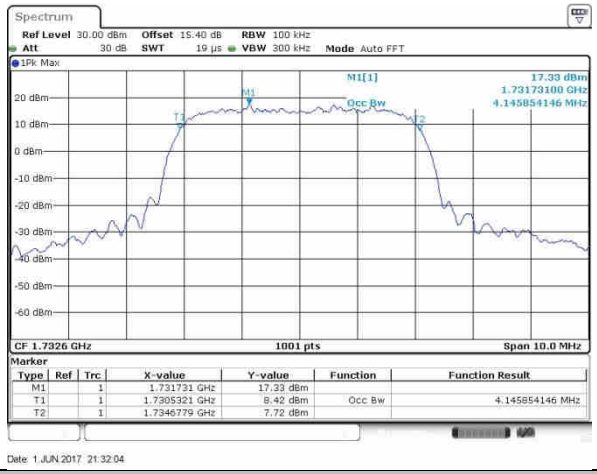
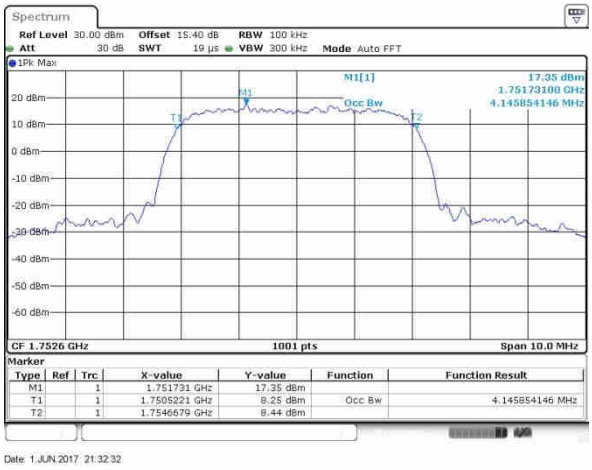


Middle Channel



Highest Channel

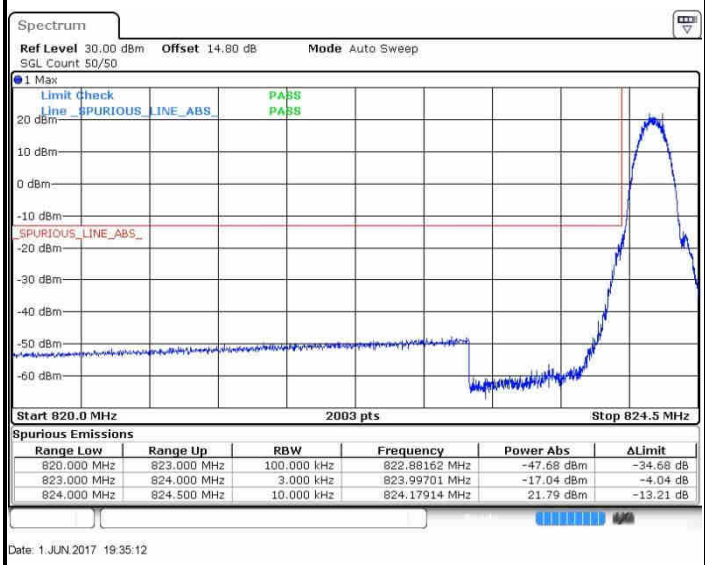


WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

Conducted Band Edge

GSM850 (GSM)

Lowest Band Edge

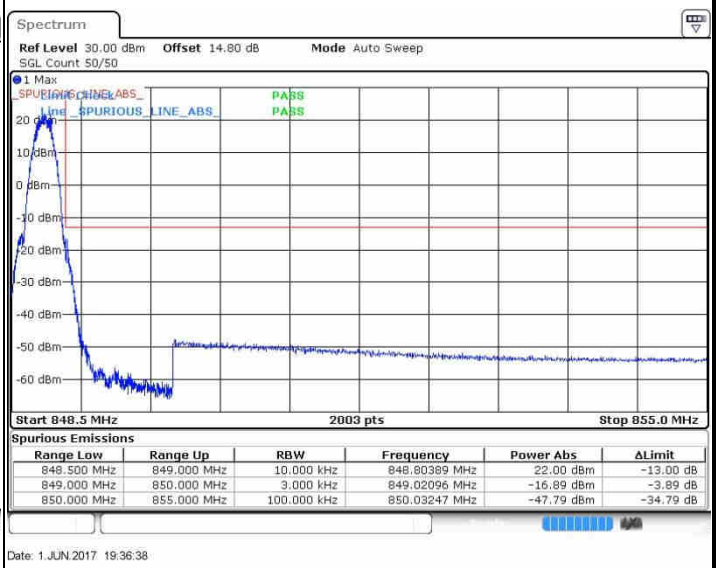


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.88162 MHz	-47.68 dBm	-34.68 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.99701 MHz	-17.04 dBm	-4.04 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.17914 MHz	21.79 dBm	-13.21 dB

Date: 1.JUN.2017 19:35:12

Highest Band Edge



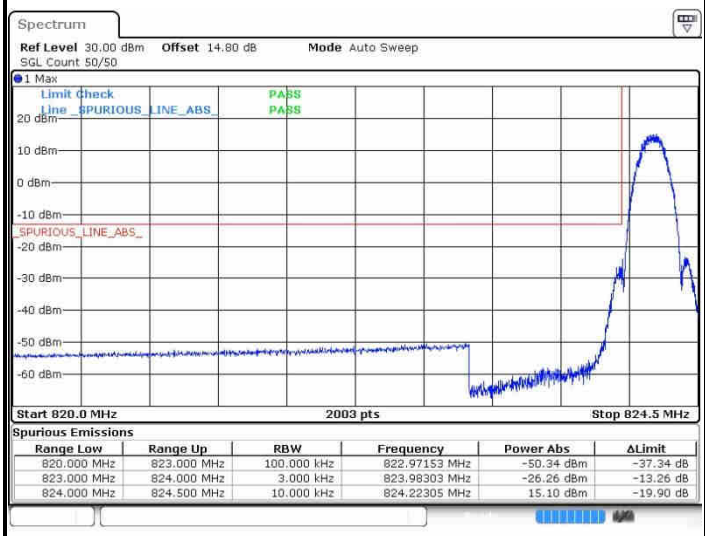
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.80389 MHz	22.00 dBm	-13.00 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.02096 MHz	-16.89 dBm	-3.89 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.03247 MHz	-47.79 dBm	-34.79 dB

Date: 1.JUN.2017 19:36:38

GSM850 (EDGE class 8)

Lowest Band Edge

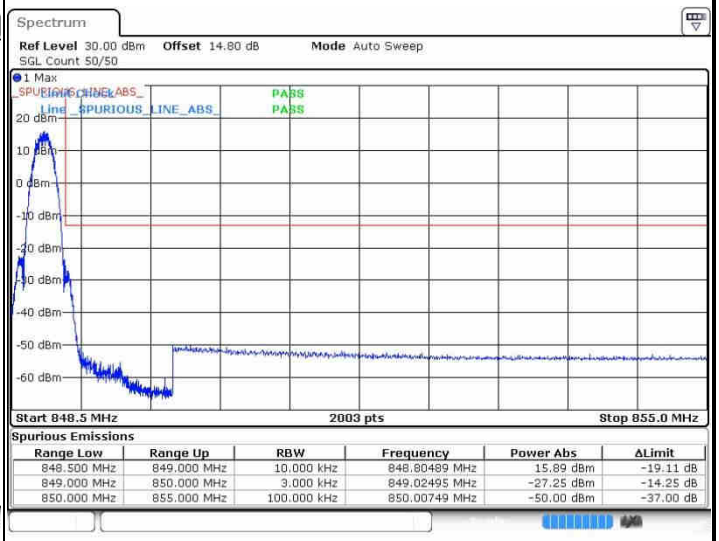


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.97153 MHz	-50.34 dBm	-37.34 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.98303 MHz	-26.26 dBm	-13.26 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.22305 MHz	15.10 dBm	-19.90 dB

Date: 1.JUN.2017 20:00:03

Highest Band Edge



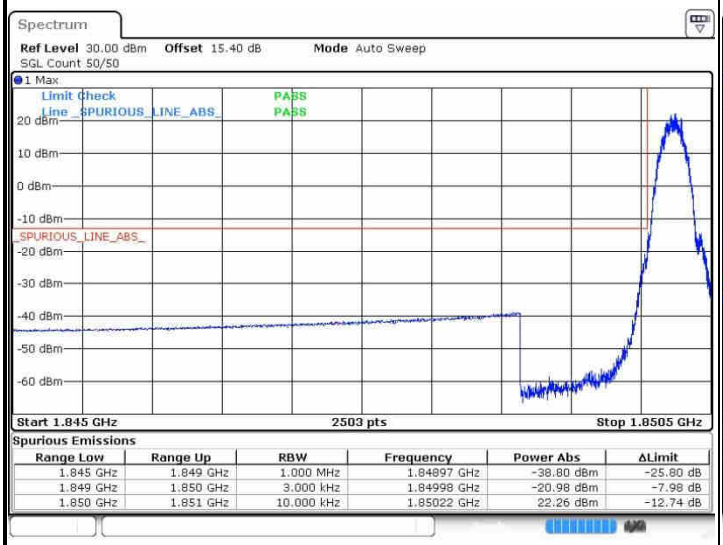
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.80489 MHz	15.89 dBm	-19.11 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.02495 MHz	-27.25 dBm	-14.25 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.00749 MHz	-50.00 dBm	-37.00 dB

Date: 1.JUN.2017 20:01:38

GSM1900 (GSM)

Lowest Band Edge

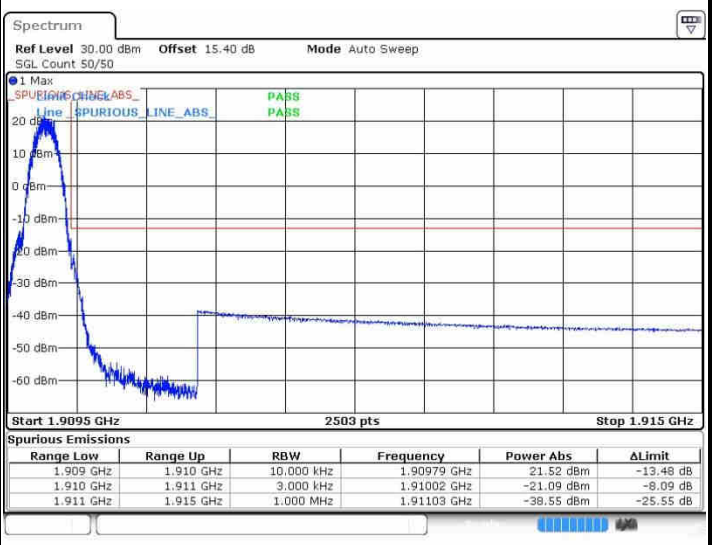


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84897 GHz	-38.80 dBm	-25.80 dB
1.849 GHz	1.850 GHz	3.000 kHz	1.84998 GHz	-20.98 dBm	-7.98 dB
1.850 GHz	1.851 GHz	10.000 kHz	1.85022 GHz	22.26 dBm	-12.74 dB

Date: 1.JUN.2017 20:20:48

Highest Band Edge



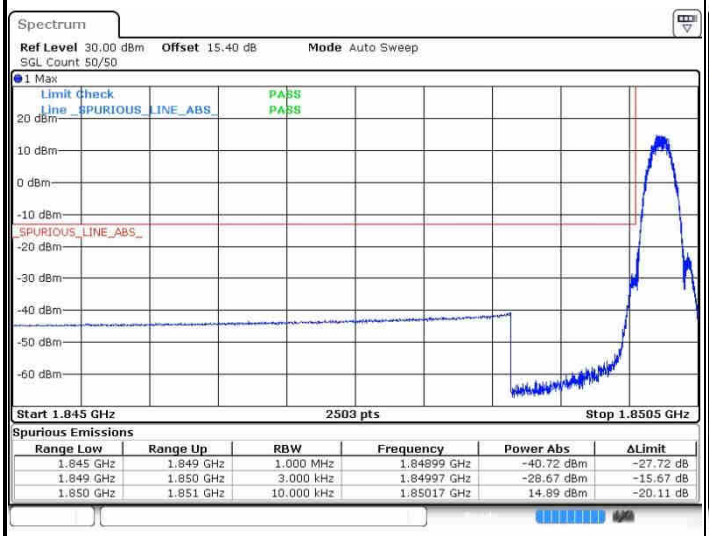
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	10.000 kHz	1.90979 GHz	21.52 dBm	-13.48 dB
1.910 GHz	1.911 GHz	3.000 kHz	1.91002 GHz	-21.09 dBm	-8.09 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91103 GHz	-38.55 dBm	-25.55 dB

Date: 1.JUN.2017 20:22:14

GSM1900 (EDGE class 8)

Lowest Band Edge

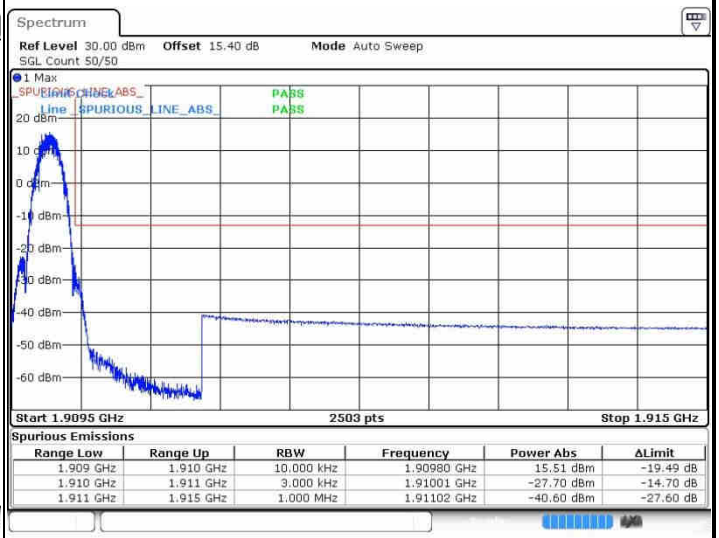


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-40.72 dBm	-27.72 dB
1.849 GHz	1.850 GHz	3.000 kHz	1.84997 GHz	-28.67 dBm	-15.67 dB
1.850 GHz	1.851 GHz	10.000 kHz	1.85017 GHz	14.89 dBm	-20.11 dB

Date: 1.JUN.2017 20:48:29

Highest Band Edge



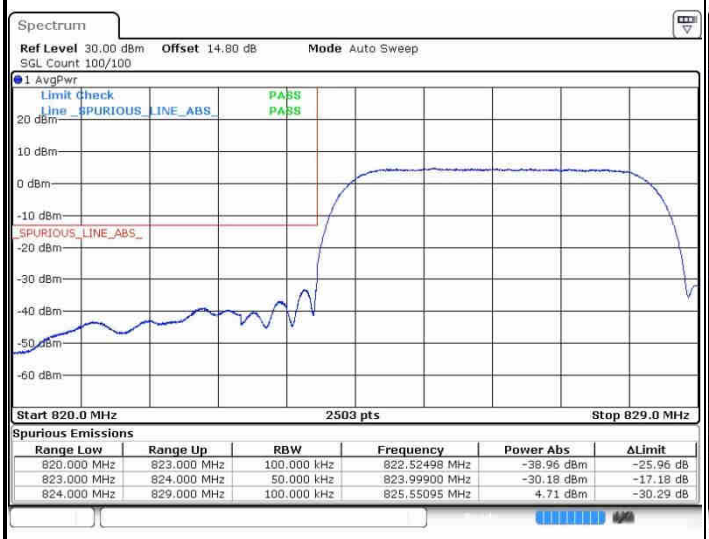
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	10.000 kHz	1.90980 GHz	15.51 dBm	-19.49 dB
1.910 GHz	1.911 GHz	3.000 kHz	1.91001 GHz	-27.70 dBm	-14.70 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91102 GHz	-40.60 dBm	-27.60 dB

Date: 1.JUN.2017 20:50:26

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

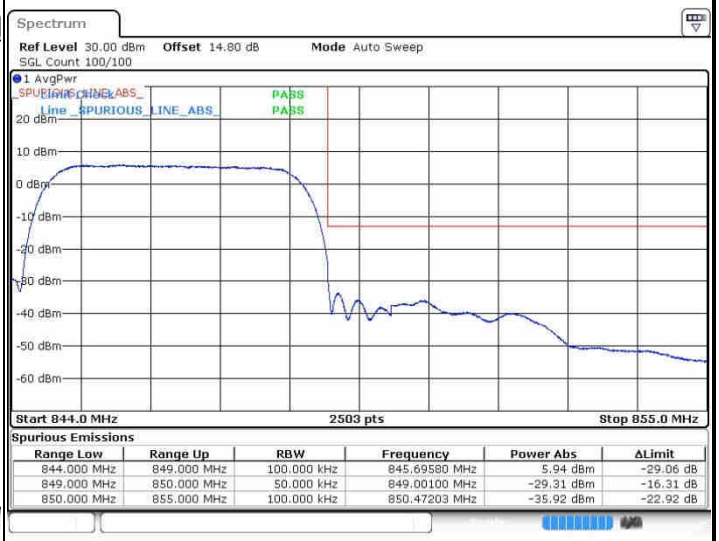


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.52498 MHz	-38.96 dBm	-25.96 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99900 MHz	-30.18 dBm	-17.18 dB
824.000 MHz	829.000 MHz	100.000 kHz	825.55095 MHz	4.71 dBm	-30.29 dB

Date: 1.JUN.2017 21:54:14

Highest Band Edge



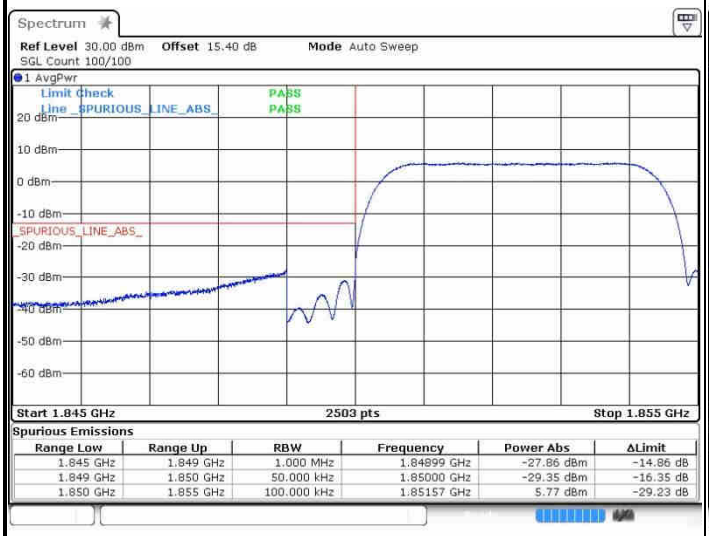
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	845.69580 MHz	5.94 dBm	-29.06 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00100 MHz	-29.31 dBm	-16.31 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.47203 MHz	-35.92 dBm	-22.92 dB

Date: 1.JUN.2017 21:56:55

WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

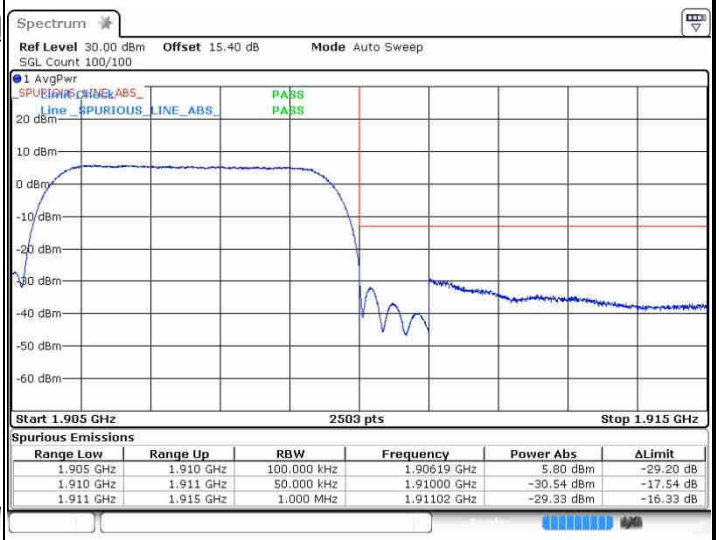


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-27.86 dBm	-14.86 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-29.35 dBm	-16.35 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85157 GHz	5.77 dBm	-29.23 dB

Date: 1.JUN.2017 21:12:40

Highest Band Edge



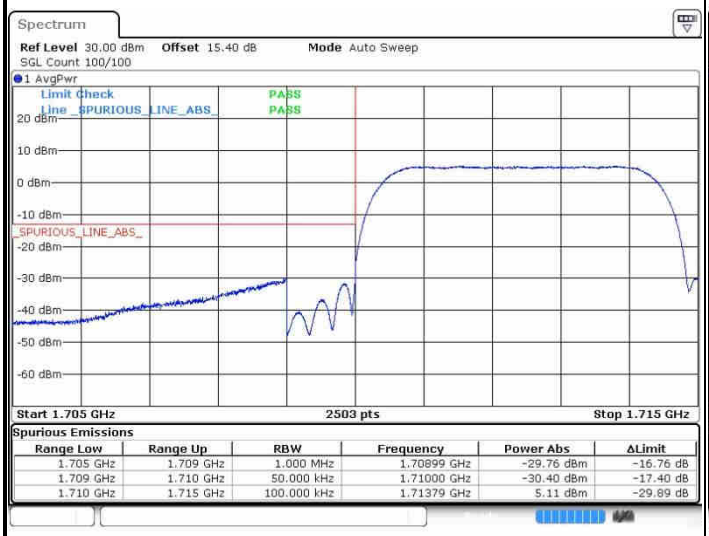
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90619 GHz	5.80 dBm	-29.20 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-30.54 dBm	-17.54 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91102 GHz	-29.33 dBm	-16.33 dB

Date: 1.JUN.2017 21:15:21

WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

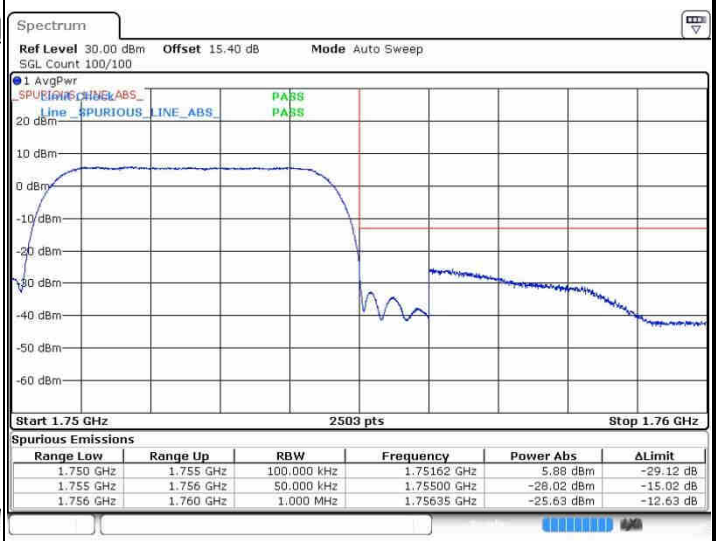


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.705 GHz	1.709 GHz	1.000 MHz	1.70899 GHz	-29.76 dBm	-16.76 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-30.40 dBm	-17.40 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71379 GHz	5.11 dBm	-29.89 dB

Date: 1.JUN.2017 21:35:26

Highest Band Edge



Spurious Emissions

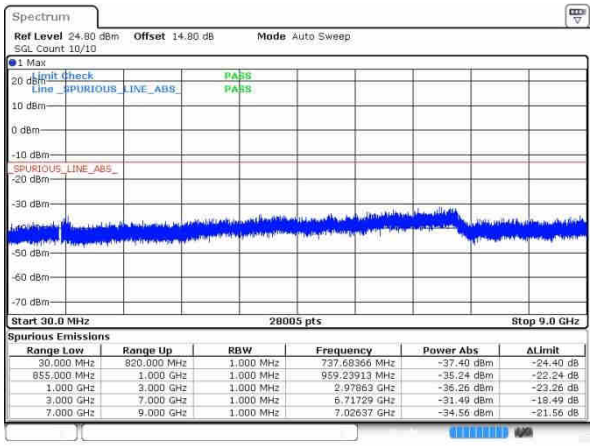
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75162 GHz	5.88 dBm	-29.12 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-28.02 dBm	-15.02 dB
1.756 GHz	1.760 GHz	1.000 MHz	1.75635 GHz	-25.63 dBm	-12.63 dB

Date: 1.JUN.2017 21:38:07

Conducted Spurious Emission

GSM850 (GSM)

Lowest Channel

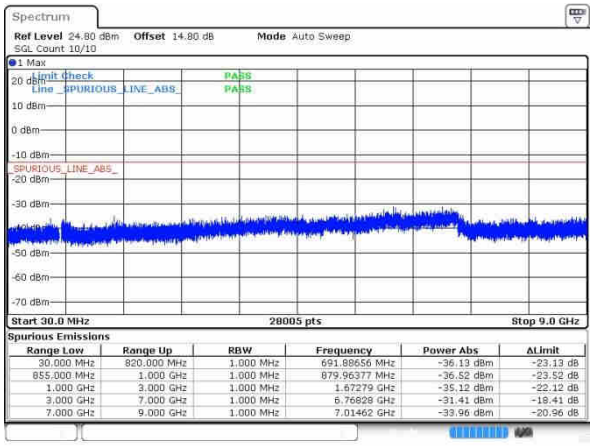


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	737.68366 MHz	-37.40 dBm	-24.40 dB
855.000 MHz	1.000 GHz	1.000 MHz	959.23913 MHz	-35.24 dBm	-22.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97863 GHz	-36.26 dBm	-23.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.71729 GHz	-31.49 dBm	-18.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.02637 GHz	-34.56 dBm	-21.56 dB

Date: 1.JUN.2017 19:43:23

Middle Channel

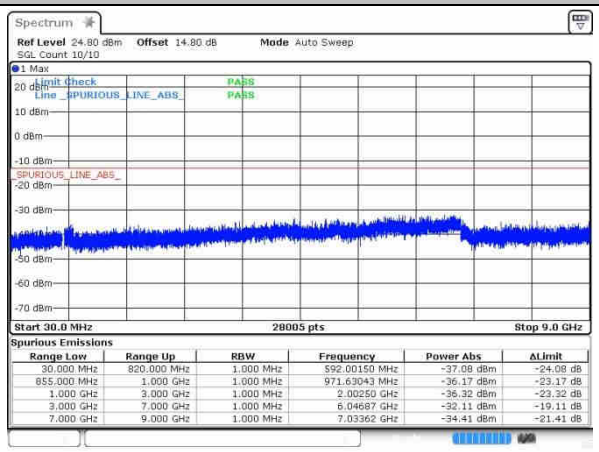


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	691.88656 MHz	-36.13 dBm	-23.13 dB
855.000 MHz	1.000 GHz	1.000 MHz	879.96377 MHz	-36.52 dBm	-23.52 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67279 GHz	-35.12 dBm	-22.12 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.76828 GHz	-31.41 dBm	-18.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01462 GHz	-33.96 dBm	-20.96 dB

Date: 1.JUN.2017 19:39:15

Highest Channel



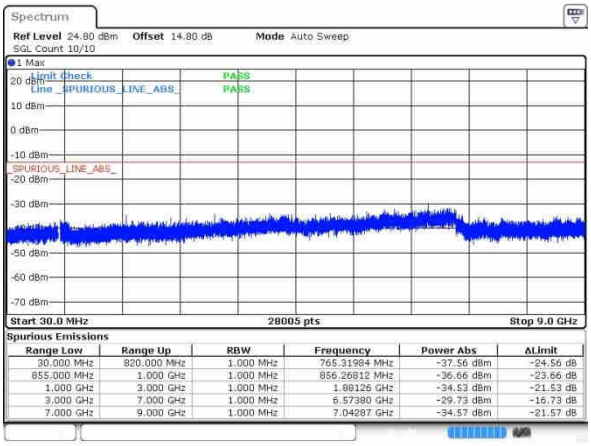
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	592.00150 MHz	-37.08 dBm	-24.08 dB
855.000 MHz	1.000 GHz	1.000 MHz	971.63043 MHz	-36.17 dBm	-23.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.00250 GHz	-36.32 dBm	-23.32 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.04687 GHz	-32.11 dBm	-19.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03362 GHz	-34.41 dBm	-21.41 dB

Date: 1.JUN.2017 19:40:31

GSM850 (EDGE class 8)

Lowest Channel

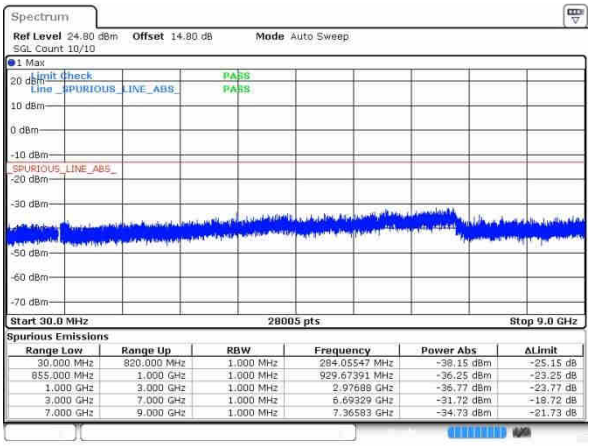


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	765.31984 MHz	-37.56 dBm	-24.56 dB
855.000 MHz	1.000 GHz	1.000 MHz	856.26812 MHz	-36.66 dBm	-23.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.88126 GHz	-34.53 dBm	-21.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.57380 GHz	-29.73 dBm	-16.73 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04287 GHz	-34.57 dBm	-21.57 dB

Date: 1.JUN.2017 20:03:18

Middle Channel

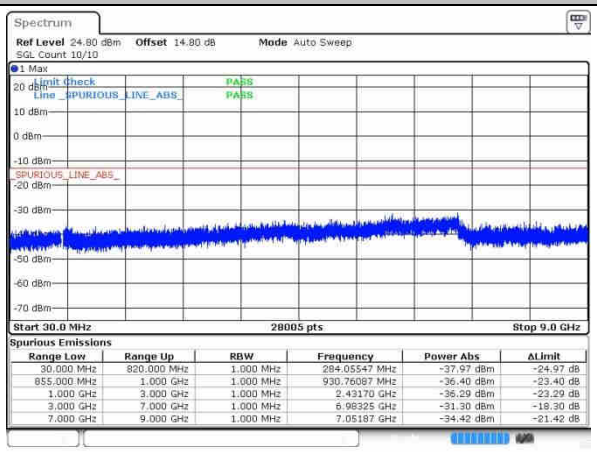


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	284.05547 MHz	-38.15 dBm	-25.15 dB
855.000 MHz	1.000 GHz	1.000 MHz	929.67391 MHz	-36.25 dBm	-23.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97688 GHz	-36.77 dBm	-23.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.69329 GHz	-31.72 dBm	-18.72 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36583 GHz	-34.73 dBm	-21.73 dB

Date: 1.JUN.2017 20:05:06

Highest Channel



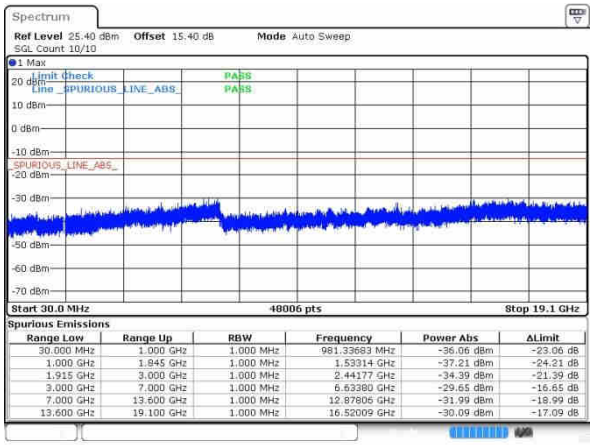
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	284.05547 MHz	-37.97 dBm	-24.97 dB
855.000 MHz	1.000 GHz	1.000 MHz	930.76087 MHz	-36.40 dBm	-23.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.43170 GHz	-36.29 dBm	-23.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98325 GHz	-31.30 dBm	-18.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05187 GHz	-34.42 dBm	-21.42 dB

Date: 1.JUN.2017 20:06:45

GSM1900 (GSM)

Lowest Channel

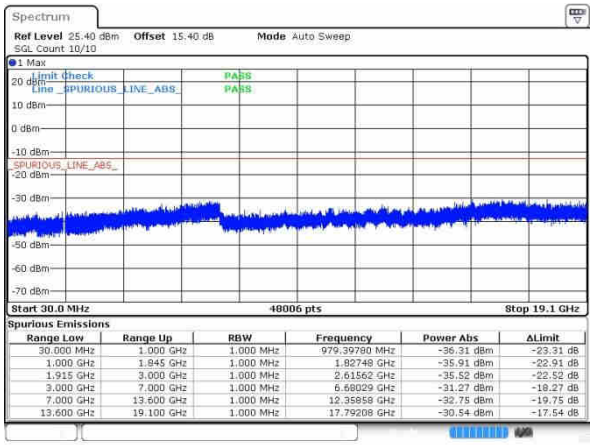


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	981.33683 MHz	-36.06 dBm	-23.06 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.53314 GHz	-37.21 dBm	-24.21 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.44177 GHz	-34.39 dBm	-21.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.63380 GHz	-29.65 dBm	-16.65 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.87806 GHz	-31.99 dBm	-18.99 dB
13.600 GHz	19.100 GHz	1.000 MHz	16.52009 GHz	-30.09 dBm	-17.09 dB

Date: 1.JUN.2017 20:30:39

Middle Channel

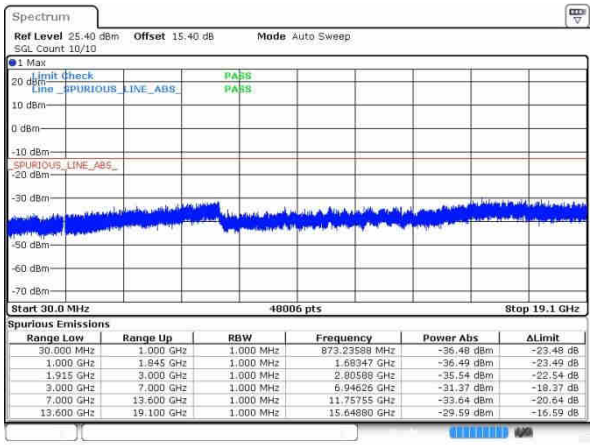


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.39790 MHz	-36.31 dBm	-23.31 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.82748 GHz	-35.91 dBm	-22.91 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.61562 GHz	-35.52 dBm	-22.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.68029 GHz	-31.27 dBm	-18.27 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.35858 GHz	-32.75 dBm	-19.75 dB
13.600 GHz	19.100 GHz	1.000 MHz	17.79208 GHz	-30.54 dBm	-17.54 dB

Date: 1.JUN.2017 20:31:55

Highest Channel



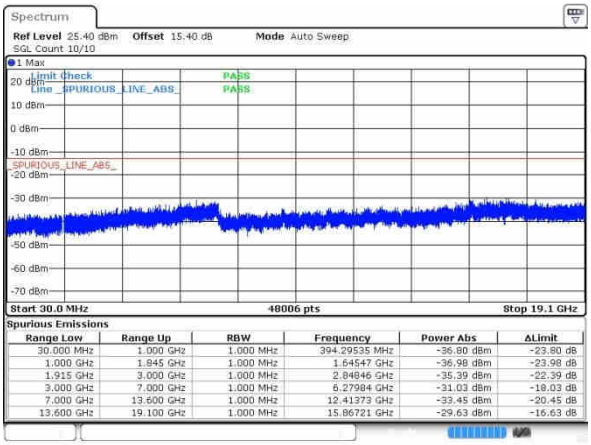
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	873.23588 MHz	-36.48 dBm	-23.48 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.68347 GHz	-36.49 dBm	-23.49 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.80588 GHz	-35.54 dBm	-22.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94626 GHz	-31.37 dBm	-18.37 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.75755 GHz	-33.64 dBm	-20.64 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.64880 GHz	-29.59 dBm	-16.59 dB

Date: 1.JUN.2017 20:33:12

GSM1900 (EDGE class 8)

Lowest Channel

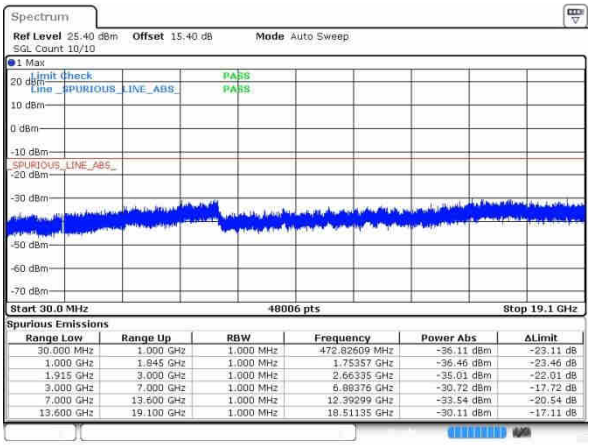


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	394.29535 MHz	-36.80 dBm	-23.80 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.64547 GHz	-36.98 dBm	-23.98 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.84846 GHz	-35.39 dBm	-22.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.27984 GHz	-31.03 dBm	-18.03 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.41373 GHz	-33.45 dBm	-20.45 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.86721 GHz	-29.63 dBm	-16.63 dB

Date: 1.JUN.2017 20:51:50

Middle Channel

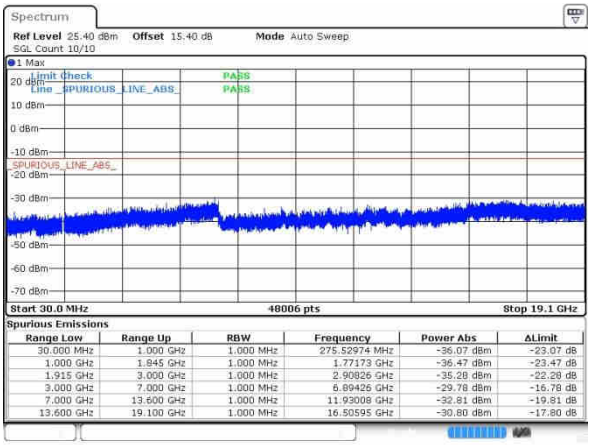


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	472.82609 MHz	-36.11 dBm	-23.11 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.75357 GHz	-36.46 dBm	-23.46 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.66335 GHz	-35.01 dBm	-22.01 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88376 GHz	-30.72 dBm	-17.72 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.39299 GHz	-33.54 dBm	-20.54 dB
13.600 GHz	19.100 GHz	1.000 MHz	18.51135 GHz	-30.11 dBm	-17.11 dB

Date: 1.JUN.2017 20:53:29

Highest Channel



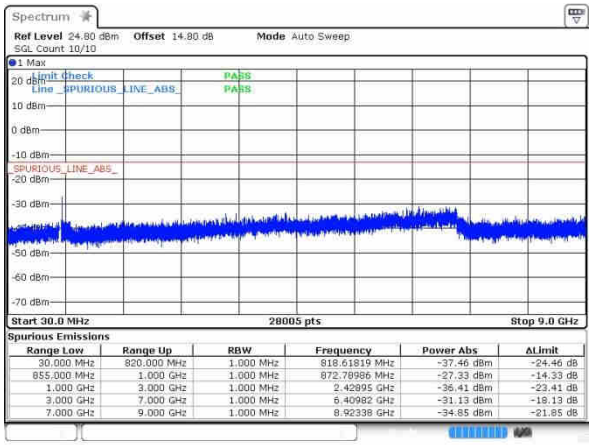
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	275.52974 MHz	-36.07 dBm	-23.07 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.77173 GHz	-36.47 dBm	-23.47 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.90826 GHz	-35.28 dBm	-22.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89426 GHz	-29.78 dBm	-16.78 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.93008 GHz	-32.81 dBm	-19.81 dB
13.600 GHz	19.100 GHz	1.000 MHz	16.50595 GHz	-30.80 dBm	-17.80 dB

Date: 1.JUN.2017 20:54:48

WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

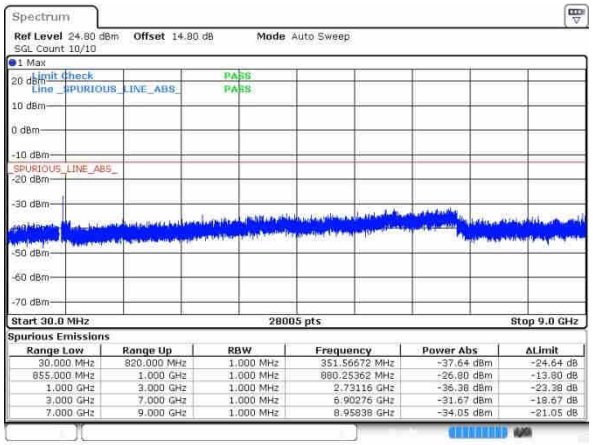


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	818.61819 MHz	-37.46 dBm	-24.46 dB
855.000 MHz	1.000 GHz	1.000 MHz	872.78986 MHz	-27.33 dBm	-14.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.42895 GHz	-36.41 dBm	-23.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.40982 GHz	-31.13 dBm	-18.13 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.92338 GHz	-34.85 dBm	-21.85 dB

Date: 1.JUN.2017 21:58:55

Middle Channel

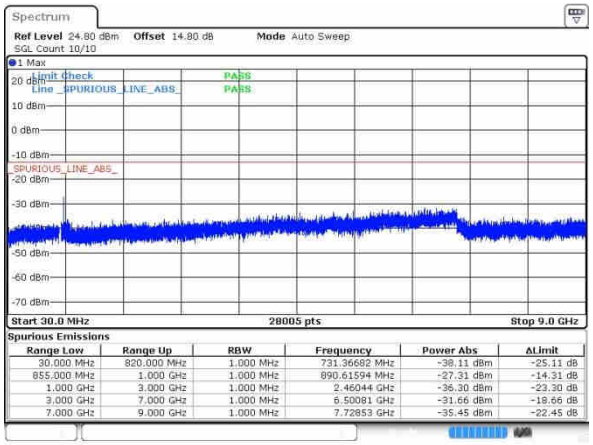


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	351.56672 MHz	-37.64 dBm	-24.64 dB
855.000 MHz	1.000 GHz	1.000 MHz	880.25362 MHz	-26.80 dBm	-13.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.73116 GHz	-36.38 dBm	-23.38 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90276 GHz	-31.67 dBm	-18.67 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.95838 GHz	-34.05 dBm	-21.05 dB

Date: 1.JUN.2017 22:00:11

Highest Channel



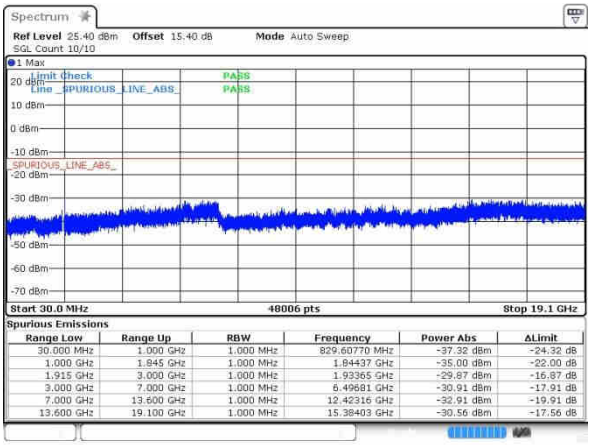
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	731.36682 MHz	-38.11 dBm	-25.11 dB
855.000 MHz	1.000 GHz	1.000 MHz	890.61594 MHz	-27.31 dBm	-14.31 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.46044 GHz	-36.30 dBm	-23.30 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.50081 GHz	-31.66 dBm	-18.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.72853 GHz	-35.45 dBm	-22.45 dB

Date: 1.JUN.2017 22:01:27

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

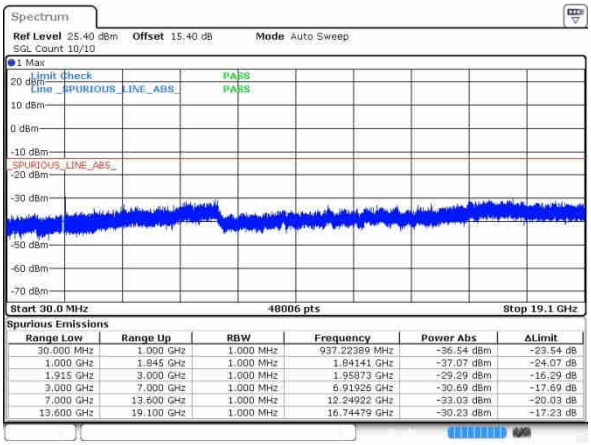


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	829.60770 MHz	-37.32 dBm	-24.32 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.84437 GHz	-35.00 dBm	-22.00 dB
1.915 GHz	3.000 GHz	1.000 MHz	1.93365 GHz	-29.87 dBm	-16.87 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.49681 GHz	-30.91 dBm	-17.91 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.42316 GHz	-32.91 dBm	-19.91 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.38403 GHz	-30.56 dBm	-17.56 dB

Date: 1.JUN.2017 21:21:15

Middle Channel

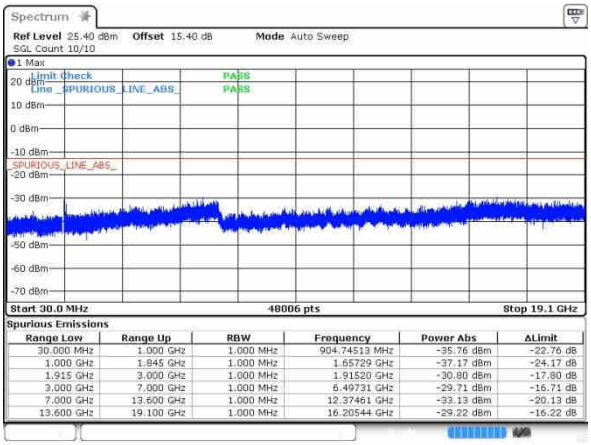


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	937.22389 MHz	-36.54 dBm	-23.54 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.84141 GHz	-37.07 dBm	-24.07 dB
1.915 GHz	3.000 GHz	1.000 MHz	1.95873 GHz	-29.29 dBm	-16.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91926 GHz	-30.69 dBm	-17.69 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.24922 GHz	-33.03 dBm	-20.03 dB
13.600 GHz	19.100 GHz	1.000 MHz	16.74479 GHz	-30.23 dBm	-17.23 dB

Date: 1.JUN.2017 21:22:31

Highest Channel



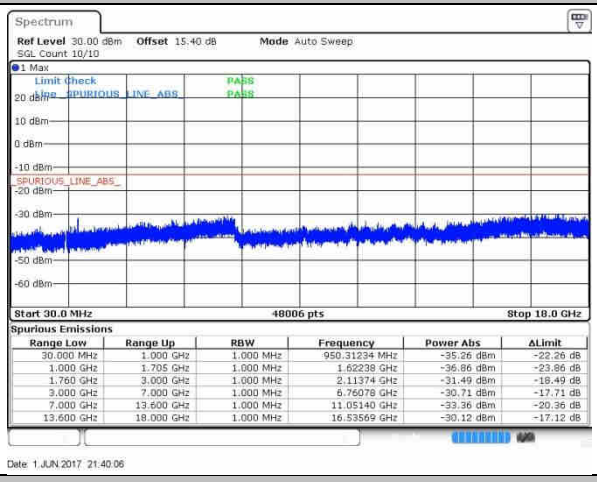
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	904.74513 MHz	-35.76 dBm	-22.76 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.65729 GHz	-37.17 dBm	-24.17 dB
1.915 GHz	3.000 GHz	1.000 MHz	1.91520 GHz	-30.80 dBm	-17.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.49731 GHz	-29.71 dBm	-16.71 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.37461 GHz	-33.13 dBm	-20.13 dB
13.600 GHz	19.100 GHz	1.000 MHz	16.20544 GHz	-29.22 dBm	-16.22 dB

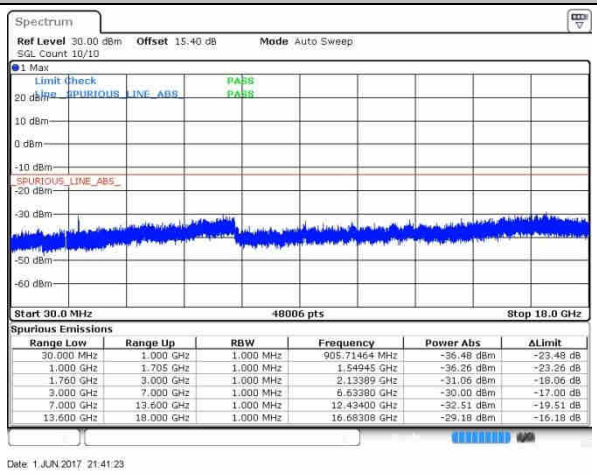
Date: 1.JUN.2017 21:23:47

WCDMA Band IV (RMC 12.2Kbps)

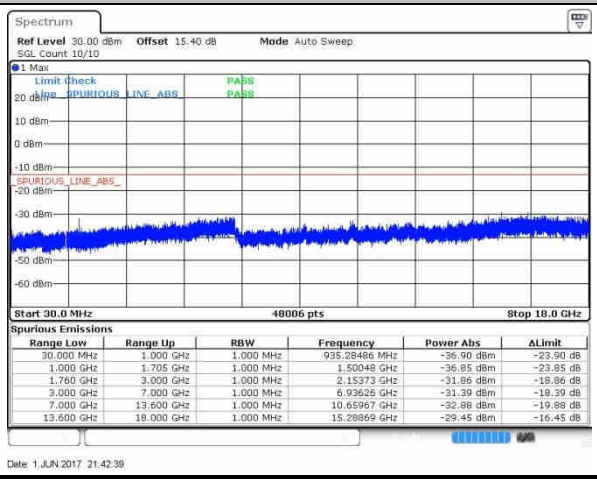
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0096	0.0048	PASS
40	Normal Voltage	0.0120	0.0036	
30	Normal Voltage	0.0024	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0036	0.0012	
0	Normal Voltage	0.0072	0.0060	
-10	Normal Voltage	0.0060	0.0048	
-20	Normal Voltage	0.0036	0.0418	
-30	Normal Voltage	0.0048	0.0048	
20	Maximum Voltage	0.0203	0.0096	
20	Normal Voltage	0.0108	0.0430	
20	Battery End Point	0.0048	0.0132	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0085	0.0117	PASS
40	Normal Voltage	0.0069	0.0069	
30	Normal Voltage	0.0096	0.0064	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0027	
0	Normal Voltage	0.0016	0.0005	
-10	Normal Voltage	0.0053	0.0032	
-20	Normal Voltage	0.0053	0.0043	
-30	Normal Voltage	0.0069	0.0043	
20	Maximum Voltage	0.0005	0.0053	
20	Normal Voltage	0.0037	0.0021	
20	Battery End Point	0.0122	0.0059	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) =3.5V.；Maximum Voltage =4.2V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0108	
-10	Normal Voltage	0.0120	
-20	Normal Voltage	0.0060	
-30	Normal Voltage	0.0215	
20	Maximum Voltage	0.0132	
20	Normal Voltage	0.0155	
20	Battery End Point	0.0108	
Test Conditions	**Middle Channel**	**WCDMA Band II (RMC 12.2Kbps)**	**Limit Note 2.**
Temperature (°C)	**Voltage (Volt)**	**Deviation (ppm)**	**Result**
50	Normal Voltage	0.0064	PASS
40	Normal Voltage	0.0059	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0133	
0	Normal Voltage	0.0181	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0144	
-30	Normal Voltage	0.0080	
20	Maximum Voltage	0.0128	
20	Normal Voltage	0.0213	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) =3.5V.；Maximum Voltage =4.2V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0075	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0081	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0046	
-20	Normal Voltage	0.0144	
-30	Normal Voltage	0.0110	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0104	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) =3.5V.；Maximum Voltage =4.2V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-60.88	-13	-47.88	-63.48	-63.20	1.33	5.80	H
	2472	-46.44	-13	-33.44	-57.67	-49.61	1.58	6.90	H
	3294	-65.35	-13	-52.35	-74.56	-68.85	1.85	7.50	H
	1648	-63.74	-13	-50.74	-65.61	-66.06	1.33	5.80	V
	2472	-53.42	-13	-40.42	-61.50	-56.59	1.58	6.90	V
	3294	-68.06	-13	-55.06	-77.08	-71.56	1.85	7.50	V
Middle	1672	-63.17	-13	-50.17	-65.77	-65.49	1.33	5.80	H
	2508	-44.90	-13	-31.90	-56.46	-48.07	1.58	6.90	H
	3348	-66.82	-13	-53.82	-76.03	-70.32	1.85	7.50	H
	1672	-60.63	-13	-47.63	-62.50	-62.95	1.33	5.80	V
	2508	-52.89	-13	-39.89	-61.12	-56.06	1.58	6.90	V
	3348	-67.66	-13	-54.66	-76.68	-71.16	1.85	7.50	V
Highest	1698	-64.28	-13	-51.28	-66.88	-66.60	1.33	5.80	H
	2546	-43.73	-13	-30.73	-55.53	-46.90	1.58	6.90	H
	3396	-66.96	-13	-53.96	-76.17	-70.46	1.85	7.50	H
	1698	-63.24	-13	-50.24	-65.11	-65.56	1.33	5.80	V
	2546	-50.63	-13	-37.63	-59.95	-53.80	1.58	6.90	V
	3396	-66.49	-13	-53.49	-75.51	-69.99	1.85	7.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM850 (EDGE class 8)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-62.76	-13	-49.76	-65.36	-65.08	1.33	5.80	H
	2472	-55.28	-13	-42.28	-64.63	-58.45	1.58	6.90	H
	3294	-67.91	-13	-54.91	-77.12	-71.41	1.85	7.50	H
	1648	-66.14	-13	-53.14	-68.01	-68.46	1.33	5.80	V
	2472	-60.64	-13	-47.64	-68.61	-63.81	1.58	6.90	V
	3294	-68.16	-13	-55.16	-77.18	-71.66	1.85	7.50	V
Middle	1672	-63.53	-13	-50.53	-66.13	-65.85	1.33	5.80	H
	2508	-55.41	-13	-42.41	-64.76	-58.58	1.58	6.90	H
	3348	-67.57	-13	-54.57	-76.78	-71.07	1.85	7.50	H
	1672	-64.89	-13	-51.89	-66.76	-67.21	1.33	5.80	V
	2508	-61.39	-13	-48.39	-69.36	-64.56	1.58	6.90	V
	3348	-68.04	-13	-55.04	-77.06	-71.54	1.85	7.50	V
Highest	1698	-68.39	-13	-55.39	-70.99	-70.71	1.33	5.80	H
	2546	-53.58	-13	-40.58	-62.93	-56.75	1.58	6.90	H
	3396	-68.36	-13	-55.36	-77.57	-71.86	1.85	7.50	H
	1698	-67.47	-13	-54.47	-69.34	-69.79	1.33	5.80	V
	2546	-60.99	-13	-47.99	-68.96	-64.16	1.58	6.90	V
	3396	-68.54	-13	-55.54	-77.56	-72.04	1.85	7.50	V

GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-59.60	-13	-46.60	-73.84	-61.31	5.08	6.80	H
	5550	-59.91	-13	-46.91	-76.71	-61.58	8.03	9.70	H
	7401	-56.72	-13	-43.72	-78.02	-59.10	9.43	11.81	H
	3699	-58.92	-13	-45.92	-71.35	-60.63	5.08	6.80	V
	5550	-59.94	-13	-46.94	-77.03	-61.61	8.03	9.70	V
	7401	-56.69	-13	-43.69	-77.83	-59.07	9.43	11.81	V
Middle	3759	-60.80	-13	-47.80	-75.04	-62.51	5.08	6.80	H
	5640	-60.35	-13	-47.35	-77.15	-62.02	8.03	9.70	H
	7521	-55.82	-13	-42.82	-77.12	-58.20	9.43	11.81	H
	3759	-57.42	-13	-44.42	-69.85	-59.13	5.08	6.80	V
	5640	-58.84	-13	-45.84	-75.93	-60.51	8.03	9.70	V
	7521	-56.58	-13	-43.58	-77.72	-58.96	9.43	11.81	V
Highest	3819	-61.03	-13	-48.03	-75.27	-62.74	5.08	6.80	H
	5730	-59.44	-13	-46.44	-76.24	-61.11	8.03	9.70	H
	7638	-56.85	-13	-43.85	-78.15	-59.23	9.43	11.81	H
	3819	-60.93	-13	-47.93	-73.36	-62.64	5.08	6.80	V
	5729.4	-58.43	-13	-45.43	-75.52	-60.10	8.03	9.70	V
	7638	-56.39	-13	-43.39	-77.53	-58.77	9.43	11.81	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE class 8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-61.92	-13	-48.92	-76.16	-63.63	5.08	6.80	H
	5550	-59.67	-13	-46.67	-76.47	-61.34	8.03	9.70	H
	7401	-55.65	-13	-42.65	-76.95	-58.03	9.43	11.81	H
	3699	-62.75	-13	-49.75	-75.18	-64.46	5.08	6.80	V
	5550.6	-59.48	-13	-46.48	-76.57	-61.15	8.03	9.70	V
	7401	-56.23	-13	-43.23	-77.37	-58.61	9.43	11.81	V
Middle	3759	-61.52	-13	-48.52	-75.76	-63.23	5.08	6.80	H
	5640	-59.37	-13	-46.37	-76.17	-61.04	8.03	9.70	H
	7521	-56.29	-13	-43.29	-77.59	-58.67	9.43	11.81	H
	3759	-60.56	-13	-47.56	-72.99	-62.27	5.08	6.80	V
	5640	-59.75	-13	-46.75	-76.84	-61.42	8.03	9.70	V
	7521	-56.38	-13	-43.38	-77.52	-58.76	9.43	11.81	V
Highest	3819	-61.67	-13	-48.67	-75.91	-63.38	5.08	6.80	H
	5730	-60.07	-13	-47.07	-76.87	-61.74	8.03	9.70	H
	7638	-56.31	-13	-43.31	-77.61	-58.69	9.43	11.81	H
	3819	-63.47	-13	-50.47	-75.9	-65.18	5.08	6.80	V
	5729.4	-60.00	-13	-47.00	-77.09	-61.67	8.03	9.70	V
	7638	-56.49	-13	-43.49	-77.63	-58.87	9.43	11.81	V

WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652	-67.67	-13	-54.67	-70.27	-69.99	1.33	5.80	H
	2480	-62.63	-13	-49.63	-71.98	-65.80	1.58	6.90	H
	3306	-67.63	-13	-54.63	-76.84	-71.13	1.85	7.50	H
	1652	-69.67	-13	-56.67	-71.54	-71.99	1.33	5.80	V
	2480	-62.97	-13	-49.97	-70.94	-66.14	1.58	6.90	V
	3306	-67.60	-13	-54.60	-76.62	-71.10	1.85	7.50	V
Middle	1672	-67.74	-13	-54.74	-70.34	-70.06	1.33	5.80	H
	2510	-61.65	-13	-48.65	-71.00	-64.82	1.58	6.90	H
	3348	-67.88	-13	-54.88	-77.09	-71.38	1.85	7.50	H
	1672	-68.75	-13	-55.75	-70.62	-71.07	1.33	5.80	V
	2510	-63.13	-13	-50.13	-71.10	-66.30	1.58	6.90	V
	3348	-68.41	-13	-55.41	-77.43	-71.91	1.85	7.50	V
Highest	1694	-66.68	-13	-53.68	-69.28	-69.00	1.33	5.80	H
	2540	-62.52	-13	-49.52	-71.87	-65.69	1.58	6.90	H
	3384	-67.82	-13	-54.82	-77.03	-71.32	1.85	7.50	H
	1694	-69.40	-13	-56.40	-71.27	-71.72	1.33	5.80	V
	2540	-63.83	-13	-50.83	-71.80	-67.00	1.58	6.90	V
	3384	-68.29	-13	-55.29	-77.31	-71.79	1.85	7.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-60.29	-13	-47.29	-74.53	-62.00	5.08	6.80	H
	5556	-59.16	-13	-46.16	-75.96	-60.83	8.03	9.70	H
	7410	-55.47	-13	-42.47	-76.77	-57.85	9.43	11.81	H
	3705	-62.51	-13	-49.51	-74.94	-64.22	5.08	6.80	V
	5556	-57.81	-13	-44.81	-74.9	-59.48	8.03	9.70	V
	7410	-55.57	-13	-42.57	-76.71	-57.95	9.43	11.81	V
Middle	3759	-61.61	-13	-48.61	-75.85	-63.32	5.08	6.80	H
	5640	-59.63	-13	-46.63	-76.43	-61.30	8.03	9.70	H
	7521	-56.77	-13	-43.77	-78.07	-59.15	9.43	11.81	H
	3759	-62.33	-13	-49.33	-74.76	-64.04	5.08	6.80	V
	5640	-58.03	-13	-45.03	-75.12	-59.70	8.03	9.70	V
	7521	-56.12	-13	-43.12	-77.26	-58.50	9.43	11.81	V
Highest	3816	-61.22	-13	-48.22	-75.46	-62.93	5.08	6.80	H
	5724	-59.38	-13	-46.38	-76.18	-61.05	8.03	9.70	H
	7629	-55.85	-13	-42.85	-77.15	-58.23	9.43	11.81	H
	3816	-62.76	-13	-49.76	-75.19	-64.47	5.08	6.80	V
	5724	-55.66	-13	-42.66	-72.75	-57.33	8.03	9.70	V
	7629	-56.06	-13	-43.06	-77.2	-58.44	9.43	11.81	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band IV(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3426	-61.40	-13	-48.40	-70.30	-65.37	4.87	8.84	H
	5137.2	-65.84	-13	-52.84	-76.77	-67.28	7.70	9.14	H
	6849	-59.44	-13	-46.44	-77.91	-61.12	8.98	10.66	H
	3426	-58.87	-13	-45.87	-70.49	-62.84	4.87	8.84	V
	5137.2	-63.15	-13	-50.15	-77.2	-64.59	7.70	9.14	V
	6849	-59.30	-13	-46.30	-77.32	-60.98	8.98	10.66	V
Middle	3465	-61.40	-13	-48.40	-70.30	-65.37	4.87	8.84	H
	5197.8	-64.16	-13	-51.16	-75.09	-65.60	7.70	9.14	H
	6930	-59.60	-13	-46.60	-78.07	-61.28	8.98	10.66	H
	3465.2	-53.47	-13	-40.47	-65.09	-57.44	4.87	8.84	V
	5199	-60.52	-13	-47.52	-74.57	-61.96	7.70	9.14	V
	6930	-59.10	-13	-46.10	-77.12	-60.78	8.98	10.66	V
Highest	3504	-64.63	-13	-51.63	-73.53	-68.60	4.87	8.84	H
	5259	-65.83	-13	-52.83	-76.76	-67.27	7.70	9.14	H
	7011	-59.80	-13	-46.80	-78.27	-61.48	8.98	10.66	H
	3504	-60.03	-13	-47.03	-71.65	-64.00	4.87	8.84	V
	5259	-62.55	-13	-49.55	-76.6	-63.99	7.70	9.14	V
	7011	-58.77	-13	-45.77	-76.79	-60.45	8.98	10.66	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.