FCC RF Test Report

APPLICANT	:	Telit Wireless Solutions Co., Ltd.
EQUIPMENT	:	LM940
BRAND NAME	:	TELIT
MODEL NAME	:	LM940
FCC ID	:	RI7LM940
STANDARD	:	FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)

The product was received on May 02, 2017 and testing was completed on Jun. 27, 2017. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG750208A	Rev. 01	Initial issue of report	Jul. 14, 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 33.14 dB at 3756.000 MHz

1 General Description

1.1 Applicant

Telit Wireless Solutions Co., Ltd.
13th Fl. Shinyoung Securities Bldg., 6, Gukjegeumyung-ro 8-gil,Seoul, 07330, South Korea

1.2 Manufacturer

Telit Wireless Solutions Co., Ltd.
13th Fl. Shinyoung Securities Bldg., 6, Gukjegeumyung-ro 8-gil, Seoul, 07330, South Korea

1.3 Product Feature of Equipment Under Test

WCDMA/LTE, and GPS.

Product Specification subjective to this standard	
Antenna Type	WWAN: Fixed External Antenna GPS / Glonass : Passive or Active Patch Antenna

1.4 Modification of EUT

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

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH03-HY

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH13-HY

1.6 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 emissions were investigated as following frequency range:

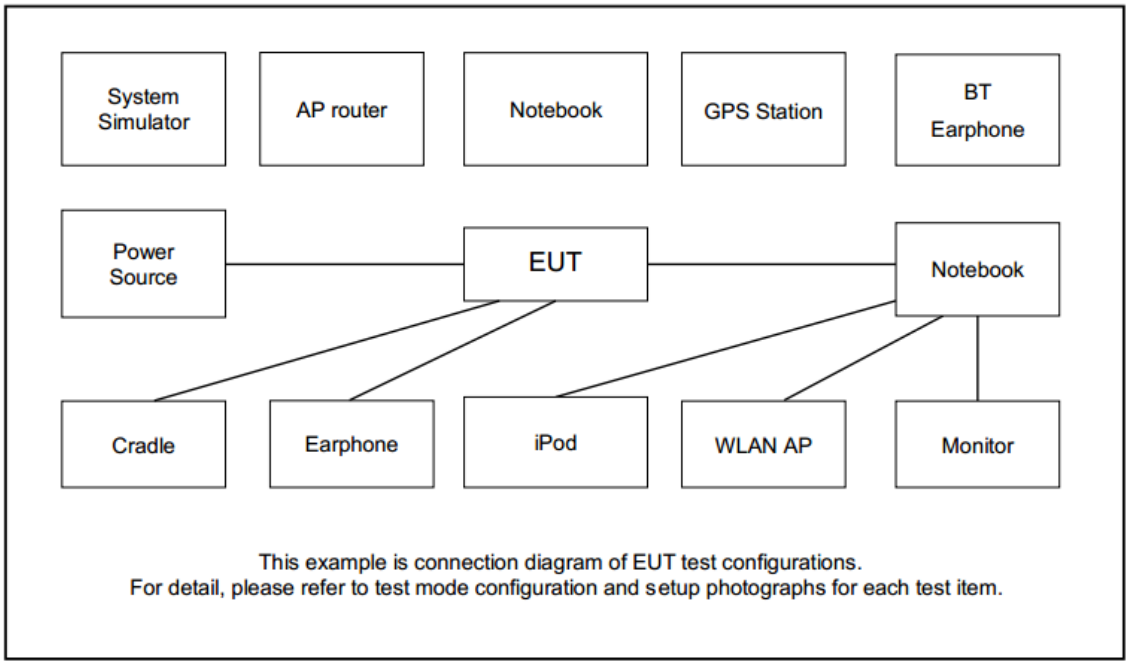
1. 30 MHz to 9000 MHz for WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for WCDMA Band II.

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**
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 12.2KbpsLink	■ 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.	WWAN Antenna	N/A	WE14-LF-07	N/A	N/A	N/A
3.	Programmable Power Supply	TOPWARD	3303D	N/A	N/A	N/A
4.	Fixture	N/A	N/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 loss 4.2 dB and a 10dB attenuator.

Example :

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

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

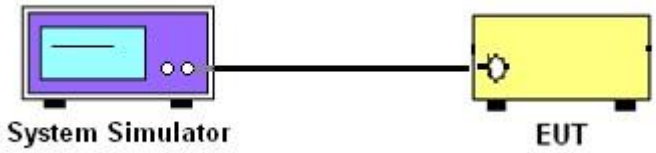
3 Conducted Test Result

3.1 Measuring Instruments

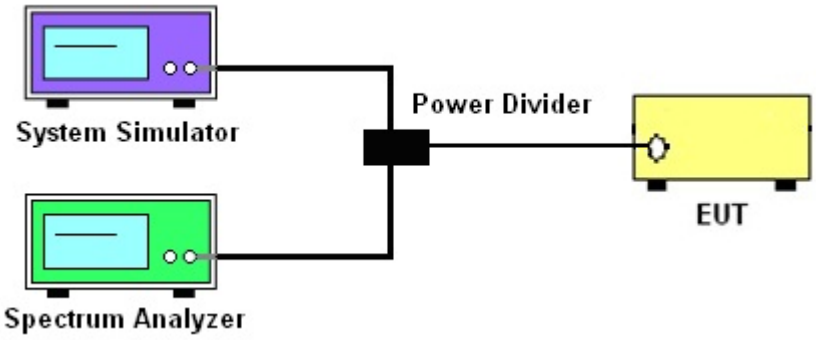
See list of measuring instruments of this test report.

3.2 Test Setup

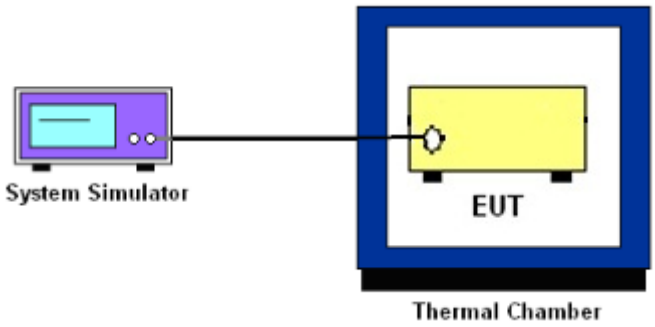
3.2.1 Conducted Output Power



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)

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 10^{th} 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)

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.

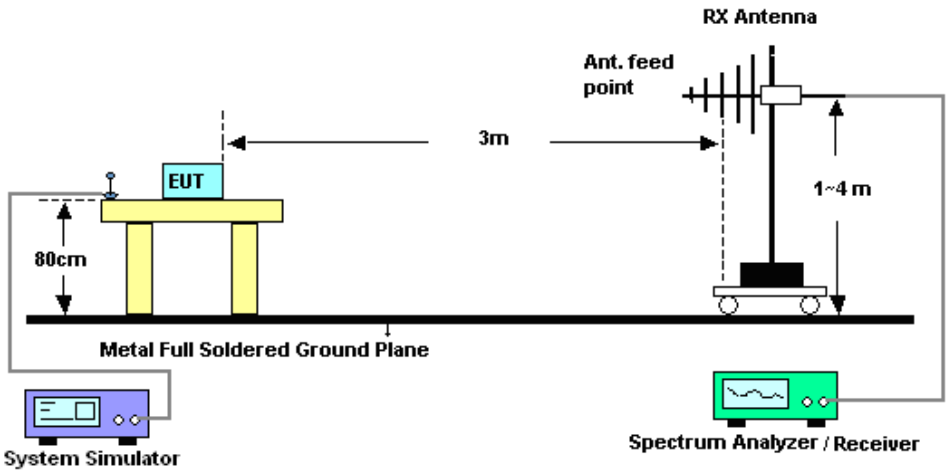
4 Radiated Test Items

4.1 Measuring Instruments

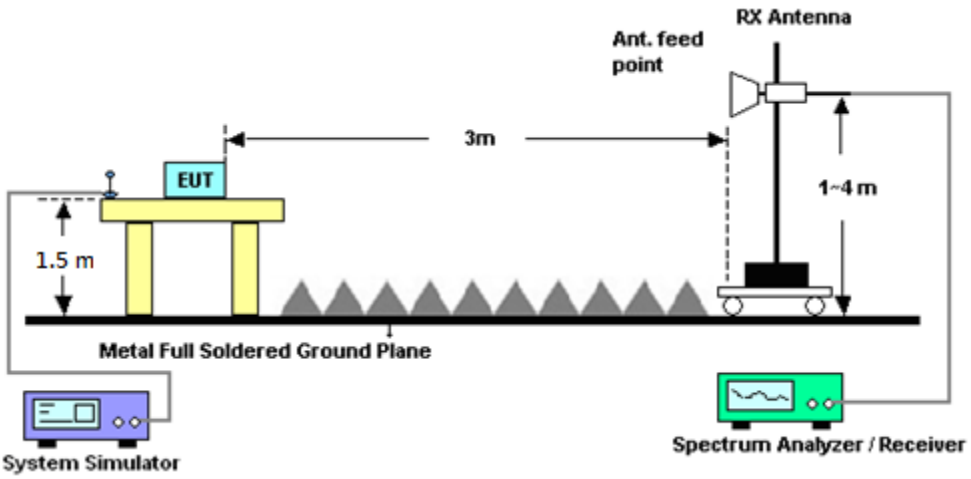
See list of measuring instruments of this test report.

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)

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Jun. 27, 2016	May 31, 2017	Jun. 26, 2017	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 16, 2016	May 31, 2017	Nov. 15, 2017	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL883644	Voltage:0~20V; Current:0~5A	Nov. 22, 2016	May 31, 2017	Nov. 21, 2017	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117997	GSM / GPRS / WCDMA / CDMA	Aug. 05, 2016	May 31, 2017	Aug. 04, 2017	Conducted (TH03-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1D01N-06	40103&04	30MHz to 1GHz	Jan. 07, 2017	Jun. 23, 2017 ~ Jun. 27, 2017	Jan. 06, 2018	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 17, 2017	Jun. 23, 2017 ~ Jun. 27, 2017	Mar. 16, 2018	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1620	1G~18GHz	Sep. 30, 2016	Jun. 23, 2017 ~ Jun. 27, 2017	Sep. 29, 2017	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	Jun. 23, 2017 ~ Jun. 27, 2017	Nov. 07, 2017	Radiation (03CH13-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 04, 2017	Jun. 23, 2017 ~ Jun. 27, 2017	Jan. 03, 2018	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 21, 2016	Jun. 23, 2017 ~ Jun. 27, 2017	Dec. 20, 2017	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 22, 2017	Jun. 23, 2017 ~ Jun. 27, 2017	May 21, 2018	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 09, 2017	Jun. 23, 2017 ~ Jun. 27, 2017	Jan. 08, 2018	Radiation (03CH13-HY)
Preamplifier	MITEQ	TTA 1840-35-HG	1887435	18GHz ~ 40GHz	Oct. 13, 2016	Jun. 23, 2017 ~ Jun. 27, 2017	Oct. 12, 2017	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	N/A	Mar. 03, 2017	Jun. 23, 2017 ~ Jun. 27, 2017	Mar. 02, 2018	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	N/A	Mar. 15, 2017	Jun. 23, 2017 ~ Jun. 27, 2017	Mar. 14, 2018	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 23, 2017 ~ Jun. 27, 2017	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 23, 2017 ~ Jun. 27, 2017	N/A	Radiation (03CH13-HY)

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))	**3.07**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.48**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.92**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
RMC 12.2K	22.43	**22.61**	22.59	22.59	22.62	**22.71**
HSDPA Subtest-1	21.38	21.55	21.59	21.58	21.60	21.67
HSDPA Subtest-2	21.37	21.54	21.58	21.56	21.58	21.64
HSDPA Subtest-3	20.91	21.10	21.12	21.00	21.06	21.15
HSDPA Subtest-4	20.93	21.06	21.11	21.01	21.10	21.11
HSUPA Subtest-1	21.39	21.57	21.55	21.52	21.60	21.63
HSUPA Subtest-2	19.43	19.62	19.54	19.58	19.63	19.65
HSUPA Subtest-3	20.45	20.58	20.56	20.54	20.59	20.60
HSUPA Subtest-4	19.45	19.61	19.53	19.60	19.62	19.66
HSUPA Subtest-5	21.42	21.55	21.60	21.55	21.59	21.65

Conducted Power (*Unit: dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	22.45	**22.48**	22.46
HSDPA Subtest-1	21.39	21.44	21.43
HSDPA Subtest-2	21.37	21.42	21.42
HSDPA Subtest-3	20.89	20.89	20.88
HSDPA Subtest-4	20.81	20.90	20.87
HSUPA Subtest-1	21.38	21.43	21.41
HSUPA Subtest-2	19.45	19.48	19.42
HSUPA Subtest-3	20.43	20.41	20.38
HSUPA Subtest-4	19.41	19.45	19.40
HSUPA Subtest-5	21.35	21.42	21.41

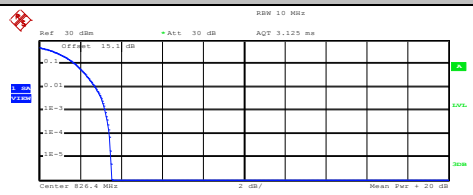
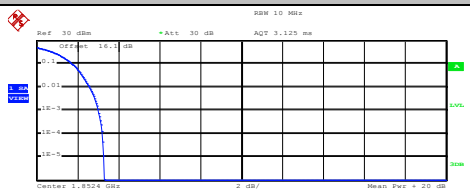
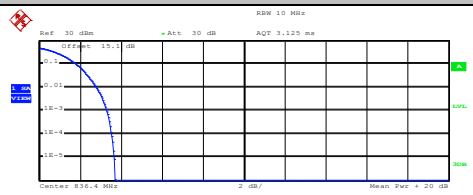
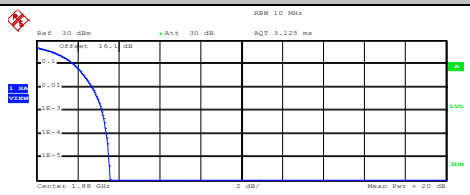
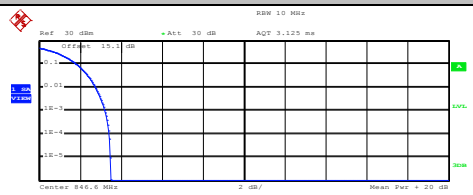
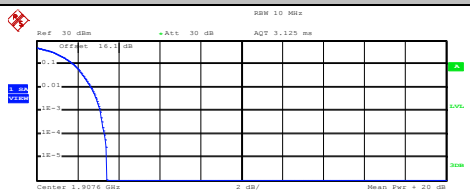
<For AT&T>

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
RMC 12.2K	22.43	**22.57**	22.56	22.55	22.60	**22.66**
HSDPA Subtest-1	21.38	21.55	21.54	21.50	21.60	21.61
HSDPA Subtest-2	21.29	21.54	21.51	21.55	21.58	21.59
HSDPA Subtest-3	20.91	21.06	21.10	20.93	21.13	21.15
HSDPA Subtest-4	20.92	21.06	21.11	20.98	21.13	21.02
HSUPA Subtest-1	21.37	21.53	21.51	21.43	21.53	21.55
HSUPA Subtest-2	19.40	19.52	19.53	19.49	19.61	19.57
HSUPA Subtest-3	20.36	20.58	20.47	20.46	20.59	20.60
HSUPA Subtest-4	19.42	19.61	19.50	19.54	19.62	19.63
HSUPA Subtest-5	21.33	21.55	21.50	21.51	21.59	21.63

A3. WCDMA

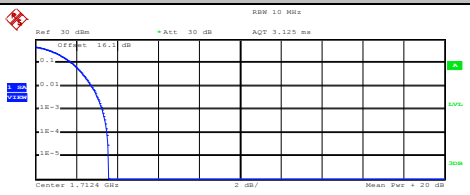
Peak-to-Average Ratio

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	3.24	3.04	3.28	PASS
Middle CH	3.32	3.20	3.24	
Highest CH	3.20	3.12	3.28	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.12 dBm Peak 25.67 dBm Crest 3.55 dB 10 % 1.76 dB 1 % 2.72 dB .1 % 3.24 dB .01 % 3.44 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.79 dBm Peak 25.10 dBm Crest 3.32 dB 10 % 1.76 dB 1 % 2.60 dB .1 % 3.04 dB .01 % 3.20 dB
Date: 31.MAY.2017 11:07:34	Date: 31.MAY.2017 10:41:16
Middle Channel	**Middle Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.04 dBm Peak 25.74 dBm Crest 3.70 dB 10 % 1.80 dB 1 % 2.80 dB .1 % 3.32 dB .01 % 3.56 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.94 dBm Peak 25.53 dBm Crest 3.59 dB 10 % 1.80 dB 1 % 2.72 dB .1 % 3.20 dB .01 % 3.40 dB
Date: 31.MAY.2017 11:07:43	Date: 31.MAY.2017 10:41:26
Highest Channel	**Highest Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.12 dBm Peak 25.60 dBm Crest 3.48 dB 10 % 1.84 dB 1 % 2.76 dB .1 % 3.20 dB .01 % 3.44 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.88 dBm Peak 25.31 dBm Crest 3.43 dB 10 % 1.80 dB 1 % 2.68 dB .1 % 3.12 dB .01 % 3.32 dB
Date: 31.MAY.2017 11:07:51	Date: 31.MAY.2017 10:41:36

WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



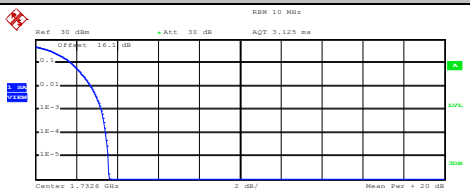
Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean	21.74 dBm
Peak	25.31 dBm
Crest	3.58 dB
10 %	1.80 dB
1 %	2.76 dB
.1 %	3.28 dB
.01 %	3.52 dB

Date: 31.MAY.2017 10:53:41

Middle Channel



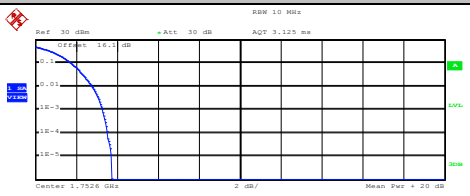
Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean	21.72 dBm
Peak	25.31 dBm
Crest	3.60 dB
10 %	1.76 dB
1 %	2.72 dB
.1 %	3.24 dB
.01 %	3.44 dB

Date: 31.MAY.2017 10:53:50

Highest Channel



Complementary Cumulative Distribution Function (100000 samples)

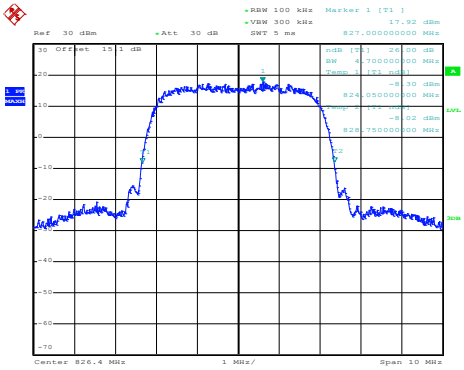
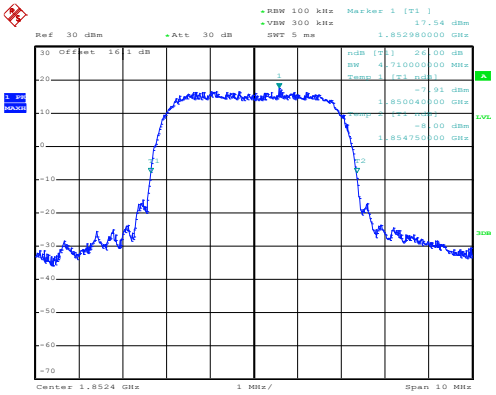
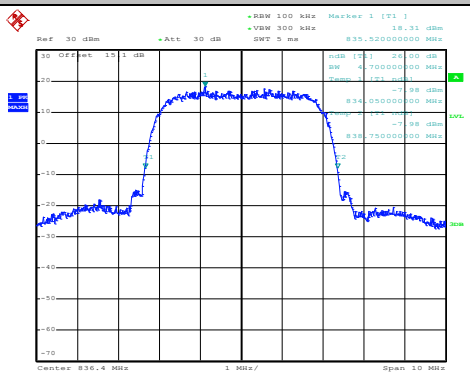
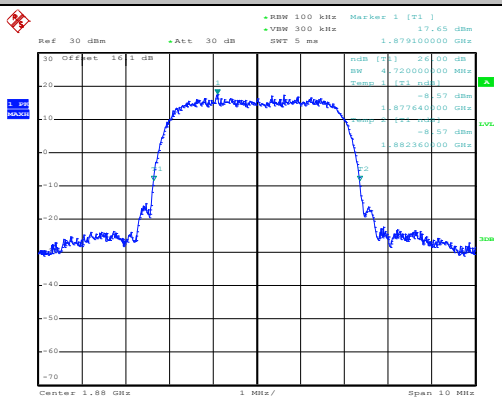
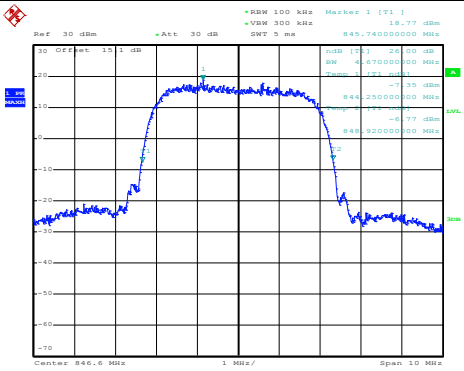
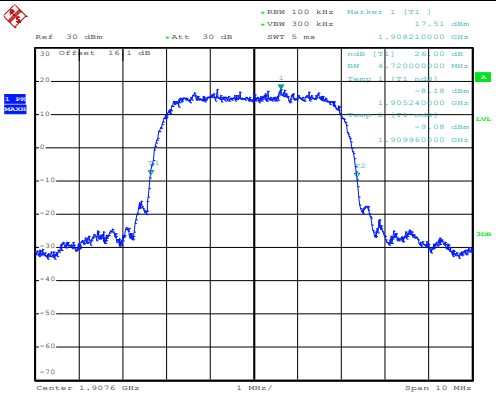
Trace 1

Mean	21.77 dBm
Peak	25.53 dBm
Crest	3.75 dB
10 %	1.76 dB
1 %	2.80 dB
.1 %	3.28 dB
.01 %	3.52 dB

Date: 31.MAY.2017 10:53:59

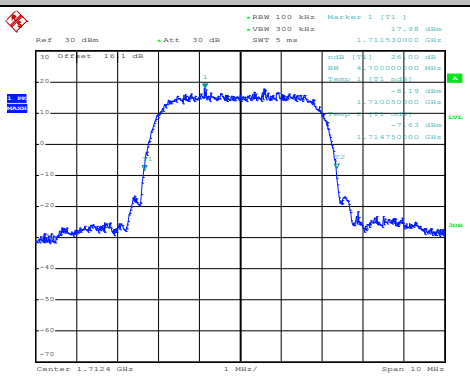
26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.70	4.71	4.70
Middle CH	4.70	4.72	4.70
Highest CH	4.67	4.72	4.69

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Date: 31.MAY.2017 10:55:14	Date: 31.MAY.2017 10:30:01
Middle Channel	**Middle Channel**
	
Date: 31.MAY.2017 10:55:42	Date: 31.MAY.2017 10:30:29
Highest Channel	**Highest Channel**
	
Date: 31.MAY.2017 10:56:10	Date: 31.MAY.2017 10:30:57

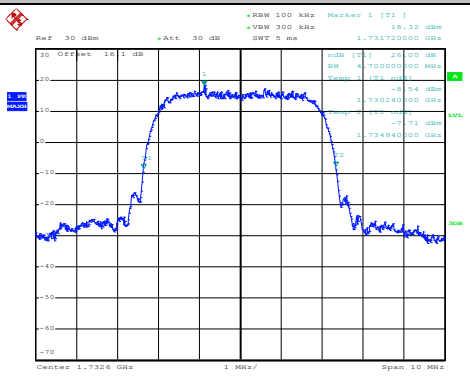
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



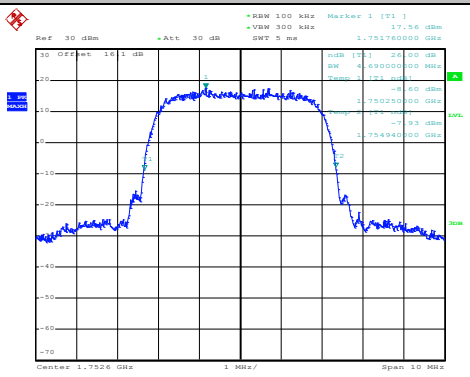
Date: 31.MAY.2017 10:42:30

Middle Channel



Date: 31.MAY.2017 10:42:58

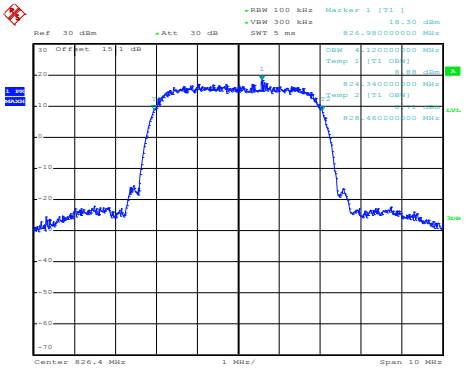
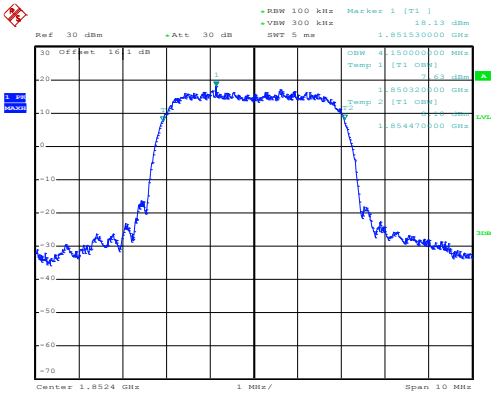
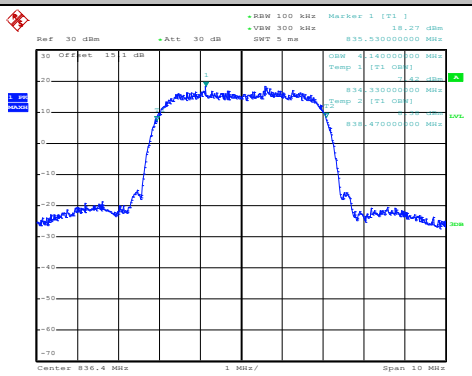
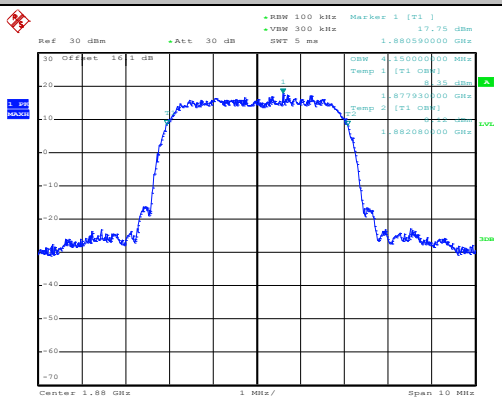
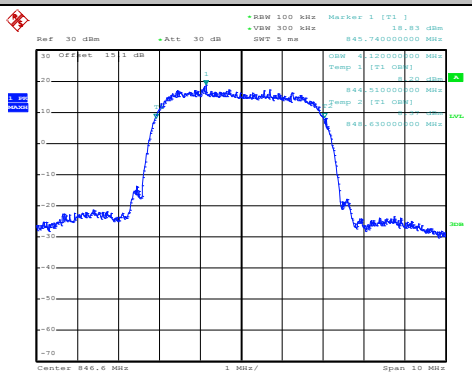
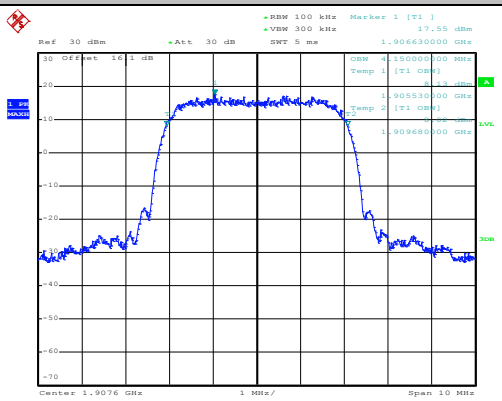
Highest Channel



Date: 31.MAY.2017 10:43:26

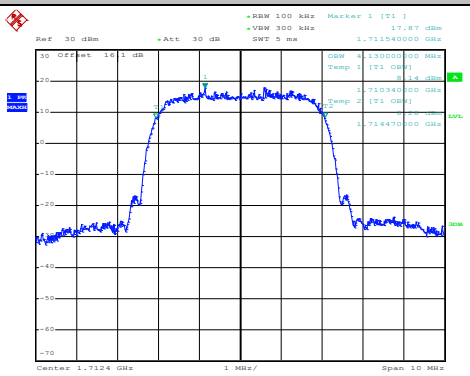
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.12	4.15	4.13
Middle CH	4.14	4.15	4.13
Highest CH	4.12	4.15	4.12

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Date: 31.MAY.2017 10:57:18	Date: 31.MAY.2017 10:31:29
Middle Channel	**Middle Channel**
	
Date: 31.MAY.2017 10:57:46	Date: 31.MAY.2017 10:31:56
Highest Channel	**Highest Channel**
	
Date: 31.MAY.2017 10:58:14	Date: 31.MAY.2017 10:32:24

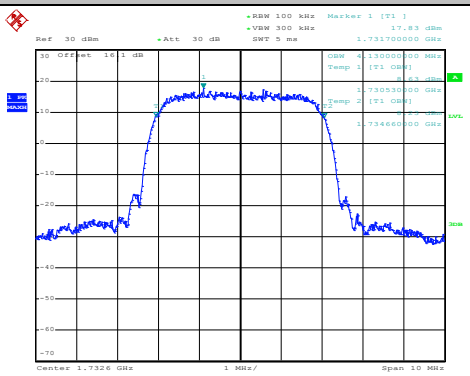
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



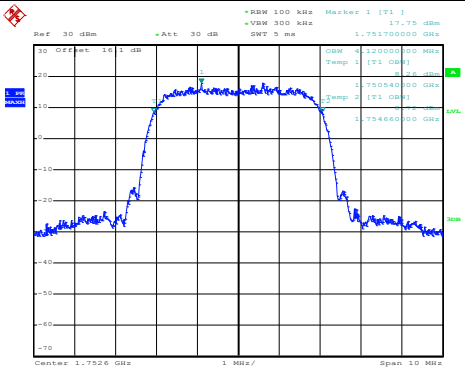
Date: 31.MAY.2017 10:44:07

Middle Channel



Date: 31.MAY.2017 10:44:35

Highest Channel

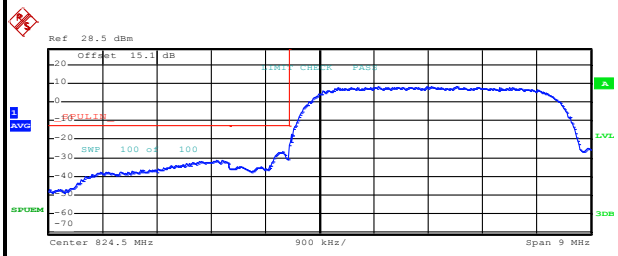


Date: 31.MAY.2017 10:45:03

Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

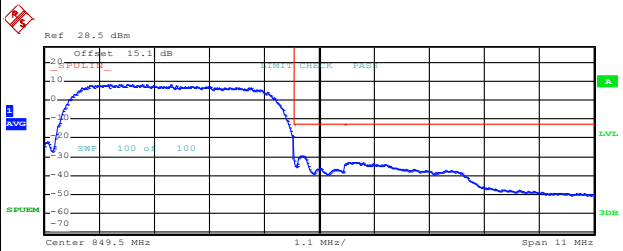
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
820.000 M	823.000 M	100.00 k	822.781000 M	-31.59	-18.59
823.000 M	824.000 M	50.00 k	823.876000 M	-26.96	-13.96
824.000 M	829.000 M	100.00 k	826.285000 M	8.23	-26.77

Date: 31.MAY.2017 11:00:59

Highest Band Edge

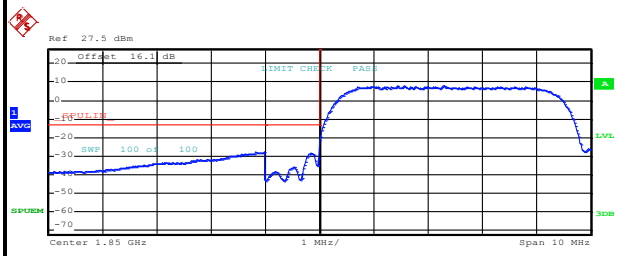


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
844.000 M	849.000 M	100.00 k	845.270000 M	8.51	-26.49
849.000 M	850.000 M	50.00 k	849.172000 M	-29.46	-16.46
850.000 M	855.000 M	100.00 k	850.175000 M	-33.06	-20.06

Date: 31.MAY.2017 11:03:41

WCDMA Band II (RMC 12.2Kbps)

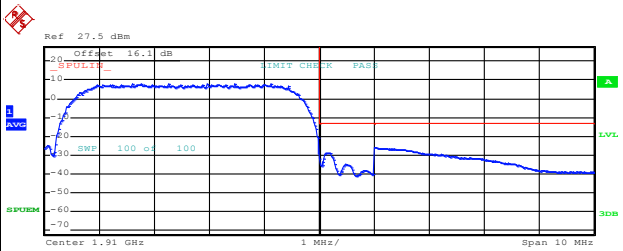
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.845 G	1.849 G	1.00 M	1.848988 G	-27.90	-14.90
1.849 G	1.850 G	50.00 k	1.849840 G	-28.46	-15.46
1.850 G	1.855 G	100.00 k	1.851445 G	8.07	-26.93

Date: 31.MAY.2017 10:35:10

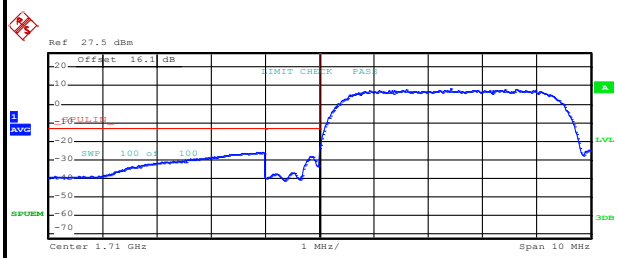
Highest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.905 G	1.910 G	100.00 k	1.907265 G	8.17	-26.83
1.910 G	1.911 G	50.00 k	1.910160 G	-28.65	-15.65
1.911 G	1.915 G	1.00 M	1.911016 G	-25.86	-12.86

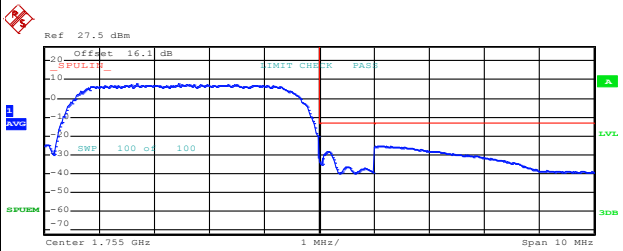
Date: 31.MAY.2017 10:37:52

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.705 G	1.709 G	1.00 M	1.708940 G	-25.97	-12.97
1.709 G	1.710 G	50.00 k	1.709840 G	-28.21	-15.21
1.710 G	1.715 G	100.00 k	1.712420 G	8.35	-26.65

Date: 31.MAY.2017 10:47:54



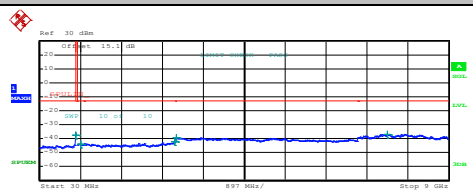
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.750 G	1.755 G	100.00 k	1.752440 G	8.09	-26.91
1.755 G	1.756 G	50.00 k	1.755140 G	-28.24	-15.24
1.756 G	1.760 G	1.00 M	1.756156 G	-25.27	-12.27

Date: 31.MAY.2017 10:50:36

Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

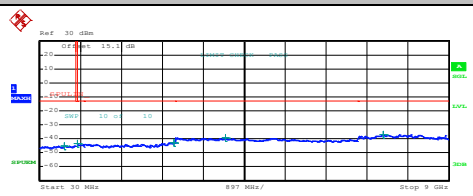
Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	819.802500 M	-37.33	-24.33
855.000 M	1.000 G	1.00 M	920.793755 M	-43.77	-30.77
1.000 G	3.000 G	1.00 M	2.990500 G	-42.17	-29.17
3.000 G	7.000 G	1.00 M	3.033000 G	-39.36	-26.36
7.000 G	9.000 G	1.00 M	7.658000 G	-37.04	-24.04

Date: 31.MAY.2017 11:05:27

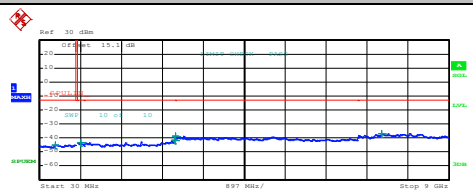
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	570.557500 M	-44.92	-31.92
855.000 M	1.000 G	1.00 M	860.473750 M	-43.48	-30.48
1.000 G	3.000 G	1.00 M	2.967000 G	-42.66	-29.66
3.000 G	7.000 G	1.00 M	4.101000 G	-39.38	-26.38
7.000 G	9.000 G	1.00 M	7.565500 G	-36.84	-23.84

Date: 31.MAY.2017 11:06:12

Highest Channel

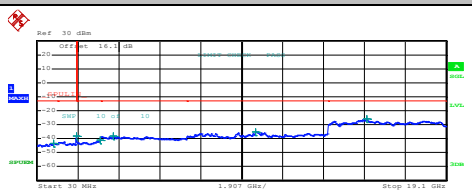


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	375.625000 M	-44.89	-31.89
855.000 M	1.000 G	1.00 M	923.077505 M	-43.25	-30.25
1.000 G	3.000 G	1.00 M	2.992500 G	-41.80	-28.80
3.000 G	7.000 G	1.00 M	3.014000 G	-38.62	-25.62
7.000 G	9.000 G	1.00 M	7.533500 G	-36.82	-23.82

Date: 31.MAY.2017 11:06:57

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	802.605000 M	-43.27	-30.27
1.000 G	1.845 G	1.00 M	1.844578 G	-38.32	-25.32
1.915 G	3.000 G	1.00 M	2.968806 G	-41.33	-28.33
3.000 G	7.000 G	1.00 M	3.591000 G	-37.92	-24.92
7.000 G	13.600 G	1.00 M	10.222450 G	-34.99	-21.99
13.600 G	19.100 G	1.00 M	15.401938 G	-26.09	-13.09

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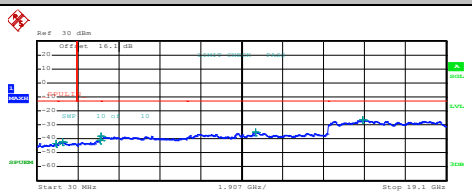
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	918.520000 M	-43.15	-30.15
1.000 G	1.845 G	1.00 M	1.221813 G	-42.32	-29.32
1.915 G	3.000 G	1.00 M	2.965009 G	-41.28	-28.28
3.000 G	7.000 G	1.00 M	3.020000 G	-38.11	-25.11
7.000 G	13.600 G	1.00 M	10.227400 G	-35.15	-22.15
13.600 G	19.100 G	1.00 M	15.201875 G	-26.60	-13.60

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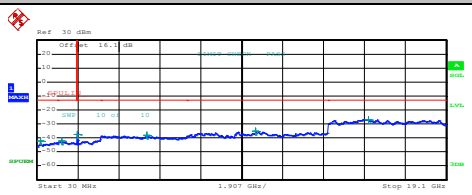
Highest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	169.922500 M	-42.23	-29.23
1.000 G	1.845 G	1.00 M	1.181675 G	-42.11	-29.11
1.915 G	3.000 G	1.00 M	1.915271 G	-37.35	-24.35
3.000 G	7.000 G	1.00 M	5.154000 G	-38.38	-25.38
7.000 G	13.600 G	1.00 M	10.208425 G	-35.19	-22.19
13.600 G	19.100 G	1.00 M	15.493375 G	-26.77	-13.77

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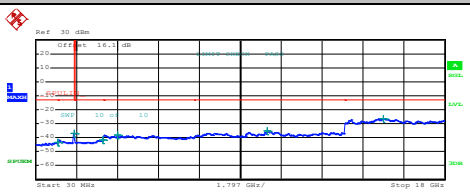
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	993.695000 M	-43.62	-30.62
1.000 G	1.705 G	1.00 M	1.704119 G	-37.20	-24.20
1.760 G	3.000 G	1.00 M	2.971480 G	-41.37	-28.37
3.000 G	7.000 G	1.00 M	3.607000 G	-37.84	-24.84
7.000 G	13.600 G	1.00 M	10.214200 G	-35.08	-22.08
13.600 G	18.000 G	1.00 M	15.321500 G	-26.14	-13.14

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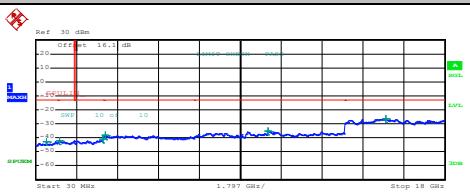
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	485.172500 M	-43.08	-30.08
1.000 G	1.705 G	1.00 M	1.080546 G	-42.30	-29.30
1.760 G	3.000 G	1.00 M	2.995040 G	-41.13	-28.13
3.000 G	7.000 G	1.00 M	3.075000 G	-38.23	-25.23
7.000 G	13.600 G	1.00 M	10.222450 G	-35.08	-22.08
13.600 G	18.000 G	1.00 M	15.409500 G	-26.52	-13.52

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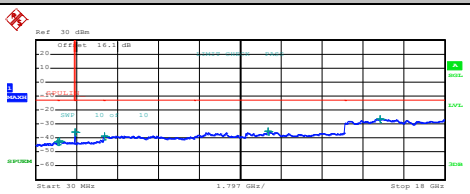
Highest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	988.360000 M	-42.82	-29.82
1.000 G	1.705 G	1.00 M	1.062216 G	-42.34	-29.34
1.760 G	3.000 G	1.00 M	1.762170 G	-35.50	-22.50
3.000 G	7.000 G	1.00 M	3.044000 G	-38.54	-25.54
7.000 G	13.600 G	1.00 M	10.222450 G	-35.14	-22.14
13.600 G	18.000 G	1.00 M	15.158700 G	-26.46	-13.46

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Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0179	PASS
40	Normal Voltage	0.0191	
30	Normal Voltage	0.0215	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0059	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0043	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0064	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0081	PASS
40	Normal Voltage	0.0104	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0196	
0	Normal Voltage	0.0156	
-10	Normal Voltage	0.0162	
-20	Normal Voltage	0.0179	
-30	Normal Voltage	0.0156	
20	Maximum Voltage	0.0144	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0156	

Note:

1. Normal Voltage = 3.3V. ；Battery End Point (BEP) = 3.1 V.；Maximum Voltage =3.6 V

2. The frequency fundamental emissions stay within the autho1rized frequency block.

Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	WCDMA Band V	22.43	0.1750	23.28	0.2128
Middle	RMC 12.2Kbps	22.61	0.1824	23.46	0.2218
Highest	(GT - LC = 3 dB)	22.59	0.1816	23.44	0.2208
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band II	22.59	0.1816	26.09	0.4064
Middle	RMC 12.2Kbps	22.62	0.1828	26.12	0.4093
Highest	(GT - LC = 3.5 dB)	22.71	0.1866	26.21	0.4178
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV	22.45	0.1758	25.95	0.3936
Middle	RMC 12.2Kbps	22.48	0.1770	25.98	0.3963
Highest	(GT - LC = 3.5 dB)	22.46	0.1762	25.96	0.3945
Limit	EIRP < 1W	Result		PASS	

<For AT&T>

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	WCDMA Band V	22.43	0.1750	23.28	0.2128
Middle	RMC 12.2Kbps	22.57	0.1807	23.42	0.2198
Highest	(GT - LC = 3 dB)	22.56	0.1803	23.41	0.2193
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band II	22.55	0.1799	26.05	0.4027
Middle	RMC 12.2Kbps	22.60	0.1820	26.10	0.4074
Highest	(GT - LC = 3.5 dB)	22.66	0.1845	26.16	0.4130
Limit	EIRP < 2W	Result		PASS	

Radiated Spurious Emission

WCDMA 850

WCDMA Band V(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	1653	-63.44	-13	-50.44	-76.95	-65.18	0.98	4.87	H
	2479	-61.78	-13	-48.78	-78.42	-63.68	1.28	5.34	H
	3306	-59.26	-13	-46.26	-79.29	-62.71	1.54	7.15	H
									H
									H
									H
	1653	-63.57	-13	-50.57	-77.08	-65.31	0.98	4.87	V
	2479	-61.78	-13	-48.78	-78.42	-63.68	1.28	5.34	V
	3306	-58.98	-13	-45.98	-79.01	-62.43	1.54	7.15	V
									V
									V
									V
Middle	1673	-63.37	-13	-50.37	-76.95	-65.05	0.99	4.82	H
	2509	-61.36	-13	-48.36	-78.17	-63.32	1.29	5.41	H
	3346	-58.91	-13	-45.91	-79.03	-62.53	1.56	7.32	H
									H
									H
									H
	1673	-63.32	-13	-50.32	-76.9	-65	0.99	4.82	V
	2509	-61.17	-13	-48.17	-77.98	-63.13	1.29	5.41	V
	3346	-59.07	-13	-46.07	-79.19	-62.69	1.56	7.32	V
									V
									V
									V

Highest	1693	-62.99	-13	-49.99	-76.63	-64.6	1.00	4.76	H
	2540	-61.29	-13	-48.29	-78.27	-63.27	1.30	5.43	H
	3386	-58.86	-13	-45.86	-79.08	-62.64	1.57	7.50	H
									H
									H
									H
									H
	1693	-63.40	-13	-50.40	-77.04	-65.01	1.00	4.76	V
	2540	-61.36	-13	-48.36	-78.34	-63.34	1.30	5.43	V
	3386	-58.73	-13	-45.73	-78.95	-62.51	1.57	7.50	V
									V
									V
									V
									V

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

WCDMA 1900

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	3707	-53.97	-13	-40.97	-74.79	-60.55	1.67	8.25	H
	5555	-53.34	-13	-40.34	-80.31	-60.41	2.66	9.72	H
	7410	-47.08	-13	-34.08	-80.62	-56.24	2.46	11.62	H
									H
									H
									H
									H
	3707	-55.33	-13	-42.33	-76.15	-61.91	1.67	8.25	V
	5555	-53.74	-13	-40.74	-80.71	-60.81	2.66	9.72	V
	7410	-47.28	-13	-34.28	-80.82	-56.44	2.46	11.62	V
									V
									V
									V
									V
Middle	3756	-46.14	-13	-33.14	-67.02	-52.76	1.68	8.31	H
	5639	-53.24	-13	-40.24	-80.45	-60.29	2.71	9.76	H
	7522	-46.80	-13	-33.80	-80.54	-56.19	2.42	11.81	H
									H
									H
									H
									H
	3756	-47.57	-13	-34.57	-68.48	-54.19	1.68	8.31	V
	5639	-52.99	-13	-39.99	-80.2	-60.04	2.71	9.76	V
	7522	-47.02	-13	-34.02	-80.76	-56.41	2.42	11.81	V
									V
									V
									V
									V

Highest	3812	-57.73	-13	-44.73	-78.68	-64.4	1.70	8.37	H
	5723	-52.84	-13	-39.84	-80.32	-59.88	2.75	9.79	H
	7627	-46.40	-13	-33.40	-80.3	-55.89	2.39	11.88	H
									H
									H
									H
									H
	3812	-57.72	-13	-44.72	-78.67	-64.39	1.70	8.37	V
	5723	-53.04	-13	-40.04	-80.52	-60.08	2.75	9.79	V
	7627	-46.66	-13	-33.66	-80.56	-56.15	2.39	11.88	V
									V
									V
									V
									V

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

WCDMA 1700

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	3427	-59.15	-13	-46.15	-79.49	-65.25	1.58	7.68	H
	5135	-53.99	-13	-40.99	-79.87	-61.28	2.41	9.70	H
	6850	-48.83	-13	-35.83	-81.14	-56.81	2.64	10.62	H
									H
									H
									H
									H
	3427	-58.85	-13	-45.85	-79.19	-64.95	1.58	7.68	V
	5135	-53.98	-13	-40.98	-79.86	-61.27	2.41	9.70	V
	6850	-48.61	-13	-35.61	-80.92	-56.59	2.64	10.62	V
									V
									V
									V
									V
Middle	3462	-58.87	-13	-45.87	-79.31	-65.11	1.59	7.83	H
	5198	-54.21	-13	-41.21	-80.26	-61.46	2.45	9.70	H
	6927	-48.28	-13	-35.28	-80.85	-56.38	2.61	10.71	H
									H
									H
									H
									H
	3462	-59.20	-13	-46.20	-79.64	-65.44	1.59	7.83	V
	5198	-54.30	-13	-41.30	-80.35	-61.55	2.45	9.70	V
	6927	-47.90	-13	-34.90	-80.47	-56	2.61	10.71	V
									V
									V
									V
									V

Highest	3504	-58.98	-13	-45.98	-79.51	-65.38	1.61	8.00	H
	5261	-54.42	-13	-41.42	-80.63	-61.63	2.49	9.70	H
	7011	-46.89	-13	-33.89	-79.71	-55.13	2.59	10.82	H
									H
									H
									H
									H
	3504	-59.02	-13	-46.02	-79.55	-65.42	1.61	8.00	V
	5261	-54.22	-13	-41.22	-80.43	-61.43	2.49	9.70	V
	7011	-47.29	-13	-34.29	-80.11	-55.53	2.59	10.82	V
									V
									V
									V
									V

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