



FCC RF Test Report

APPLICANT : Wistron Corporation
EQUIPMENT : Notebook Computer
BRAND NAME : Lenovo
MODEL NAME : TP00079A
FCC ID : PU5-TP00079A
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

This is a partial report which is included the conducted output power and ERP/EIRP and radiated test items. The product was received on Nov. 09, 2015 and testing was completed on Dec. 06, 2015. 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.

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Approved by: Jones Tsai / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG580531-05A	Rev. 01	Initial issue of report	Jan. 22, 2016
FG580531-05A	Rev. 02	Revising antenna gain in section 1.3	Jan. 27, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.4	§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	-
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	$< 43 + 10 \log_{10}(P[\text{Watts}])$	PASS	Under limit 40.71 dB at 7520.000 MHz



1 General Description

1.1 Applicant

Wistron Corporation

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

1.2 Manufacturer

Wistron Corporation

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00079A
FCC ID	PU5-TP00079A
Integrated the WWAN Module	Brand Name: Sierra Model Name: EM7455
EUT supports Radios application	WCDMA/HSPA/LTE WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.1 EDR/LE
EUT Stage	Production Unit

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

EM7455				3G & LTE
Antenna 1	Manufacturer	Jieng Tai	Peak gain	0.63 dBi
	P/N	025.900BJ.0001	Type	PIFA

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	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	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	WCDMA: Band V: 22.90 dBm Band II: 23.13 dBm Band IV: 23.05 dBm
Antenna Gain	Cellular Band: 0.19 dBi PCS Band: -1.29 dBi AWS Band: -1.27 dBi
Type of Modulation	WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)

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)
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.1242
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.1528
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1507

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 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 1 st 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.
	TH02-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.
	03CH11-HY

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: All test items were verified and recorded according to the standards and without any deviation during the test.



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:

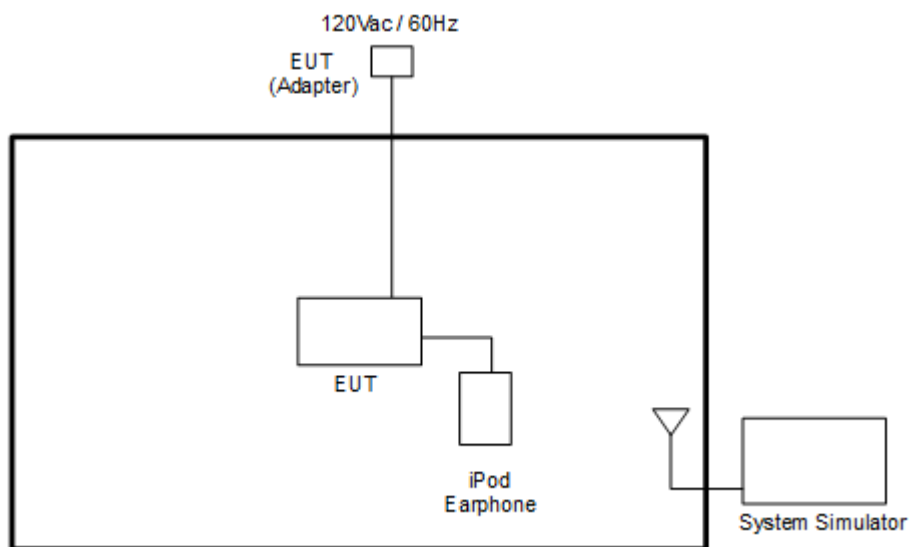
1. 30 MHz to 9000 MHz for WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19000 MHz for WCDMA Band II.

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
WCDMA Band V	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link
WCDMA Band IV	■ 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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

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



3.3 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.

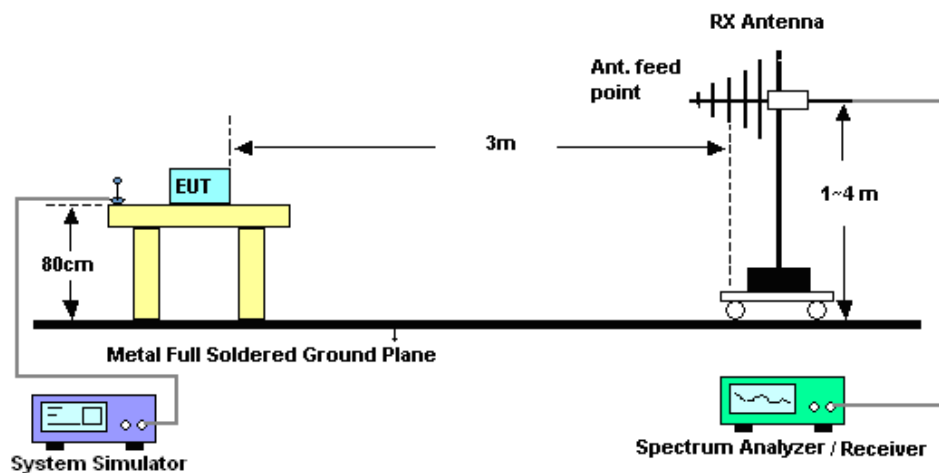
4 Radiated Test Items

4.1 Measuring Instruments

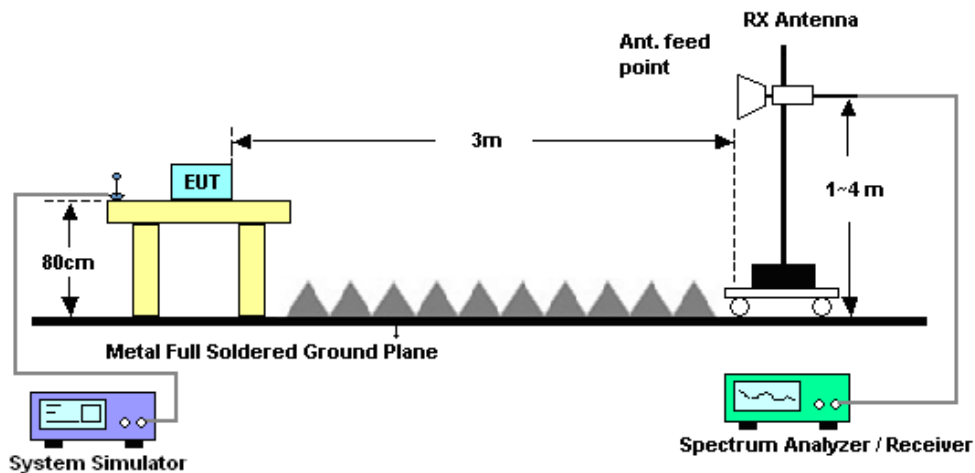
See list of measuring instruments of this test report.

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 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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station	Anritsu	MT8820C	6201074414	GSM / GPRS / WCDMA / LTE	Feb. 06, 2015	Nov. 17, 2015~ Dec. 16, 2015	Feb. 05, 2016	Conducted (TH02-HY)
Base Station	Agilent	E5515C	MY50266977	GSM/GPRS/WCDMA	May 14, 2015	Nov. 17, 2015~ Dec. 16, 2015	May 13, 2016	Conducted (TH02-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Oct. 12, 2015	Dec. 06, 2015	Oct. 11, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz- 40GHz	Apr. 20, 2015	Dec. 06, 2015	Apr 19, 2016	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Nov. 17, 2015	Dec. 06, 2015	Nov. 16, 2016	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A	MY54130085	20Hz ~ 8.4GHz	Nov. 04, 2015	Dec. 06, 2015	Nov. 03, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Sep. 30, 2015	Dec. 06, 2015	Sep. 29, 2016	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Dec. 06, 2015	Nov. 19, 2016	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35413	30MHz~1GHz	Oct. 31, 2015	Dec. 06, 2015	Oct. 30, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	Dec. 06, 2015	Oct. 07, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Dec. 06, 2015	Nov. 18, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHZ	Sep. 24, 2015	Dec. 06, 2015	Sep. 23, 2016	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Dec. 06, 2015	N/A	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 22, 2015	Dec. 06, 2015	May 21, 2016	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Dec. 06, 2015	N/A	Radiation (03CH11-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

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
RMC 12.2K	22.62	22.73	22.90	23.13	23.11	23.04	23.00	23.05	23.04
HSDPA Subtest-1	22.00	22.05	22.12	22.15	22.11	22.00	22.01	22.05	22.04
HSDPA Subtest-2	22.01	22.05	22.16	22.17	22.07	22.00	22.02	22.12	22.09
HSDPA Subtest-3	21.52	21.56	21.67	21.66	21.53	21.55	21.53	21.82	21.55
HSDPA Subtest-4	21.50	21.58	21.68	21.64	21.52	21.54	21.52	21.80	21.52
HSUPA Subtest-1	22.11	22.18	22.08	22.14	22.09	22.00	22.00	22.23	22.10
HSUPA Subtest-2	20.69	20.72	20.81	21.50	21.50	21.44	20.62	20.86	20.53
HSUPA Subtest-3	21.20	21.19	21.31	21.07	21.07	21.03	21.22	21.36	21.03
HSUPA Subtest-4	21.22	21.21	21.37	21.42	21.45	21.43	20.78	20.90	20.58
HSUPA Subtest-5	22.15	22.22	22.32	22.12	22.01	22.00	22.06	22.46	22.14

**ERP/EIRP**

Cellular Band ($G_T - L_C = 0.19$ dB)			
Modes	WCDMA Band V (RMC 12.2Kbps)		
Channel	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	826.4	836.4	846.6
Conducted Power (dBm)	22.62	22.73	22.9
Conducted Power (Watts)	0.1828	0.1875	0.1950
ERP(dBm)	20.66	20.77	20.94
ERP(Watts)	0.1164	0.1194	0.1242

PCS Band ($G_T - L_C = -1.29$ dB)			
Modes	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1852.4	1880	1907.6
Conducted Power (dBm)	23.13	23.11	23.04
Conducted Power (Watts)	0.2056	0.2046	0.2014
EIRP(dBm)	21.84	21.82	21.75
EIRP(Watts)	0.1528	0.1521	0.1496



AWS Band ($G_T - L_C = -1.27$ dB)			
Modes	WCDMA Band IV (RMC 12.2Kbps)		
Channel	1312(Low)	1413 (Mid)	1513 (High)
Frequency (MHz)	1712.4	1732.6	1752.6
Conducted Power (dBm)	23.00	23.05	23.04
Conducted Power (Watts)	0.1995	0.2018	0.2014
EIRP(dBm)	21.73	21.78	21.77
EIRP(Watts)	0.1489	0.1507	0.1503

Note: maximum average power for WCDMA.

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



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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	1653	-68.06	-13	-55.06	-73.41	-69.8	0.98	4.87	H
	2479	-65.80	-13	-52.80	-75.02	-67.7	1.28	5.34	H
	3305	-63.85	-13	-50.85	-75.82	-67.3	1.54	7.14	H
									H
									H
									H
	1653	-69.76	-13	-56.76	-72.67	-71.5	0.98	4.87	V
	2479	-64.60	-13	-51.60	-75.05	-66.5	1.28	5.34	V
	3305	-60.65	-13	-47.65	-76.01	-64.1	1.54	7.14	V
									V
									V
									V
Middle	1672	-67.62	-13	-54.62	-71.63	-69.3	0.99	4.82	H
	2509	-65.64	-13	-52.64	-74.79	-67.6	1.29	5.41	H
	3345	-63.59	-13	-50.59	-75.67	-67.2	1.56	7.32	H
									H
									H
									H
	1672	-69.12	-13	-56.12	-72.41	-70.8	0.99	4.82	V
	2509	-64.94	-13	-51.94	-74.85	-66.9	1.29	5.41	V
	3345	-64.29	-13	-51.29	-75.76	-67.9	1.56	7.32	V
									V
									V
									V
Highest	1696	-68.20	-13	-55.20	-72.94	-69.8	1.00	4.75	H
	2540	-65.72	-13	-52.72	-75.39	-67.7	1.30	5.43	H
	3386	-63.82	-13	-50.82	-76.08	-67.6	1.57	7.50	H
									H
									H
									H
	1696	-69.10	-13	-56.10	-72.67	-70.7	1.00	4.75	V
	2540	-65.02	-13	-52.02	-75.12	-67	1.30	5.43	V
	3386	-64.52	-13	-51.52	-76.01	-68.3	1.57	7.50	V
									V
									V
									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	3708	-61.02	-13	-48.02	-75.25	-67.6	1.67	8.25	H
	5557	-58.84	-13	-45.84	-79.02	-65.9	2.66	9.72	H
	7410	-53.94	-13	-40.94	-78.89	-63.1	2.46	11.62	H
									H
									H
									H
	3708	-62.22	-13	-49.22	-76.71	-68.8	1.67	8.25	V
	5557	-60.64	-13	-47.64	-78.97	-67.7	2.66	9.72	V
	7410	-54.04	-13	-41.04	-77.88	-63.2	2.46	11.62	V
									V
									V
									V
Middle	3764	-60.27	-13	-47.27	-74.75	-66.9	1.69	8.32	H
	5640	-59.45	-13	-46.45	-79.32	-66.5	2.71	9.76	H
	7520	-53.71	-13	-40.71	-78.63	-63.1	2.42	11.81	H
									H
									H
									H
	3764	-63.27	-13	-50.27	-77.28	-69.9	1.69	8.32	V
	5640	-61.05	-13	-48.05	-79.24	-68.1	2.71	9.76	V
	7520	-53.81	-13	-40.81	-77.8	-63.2	2.42	11.81	V
									V
									V
									V
Highest	3816	-62.02	-13	-49.02	-76.28	-68.7	1.70	8.38	H
	5723	-59.36	-13	-46.36	-79.23	-66.4	2.75	9.79	H
	7630	-54.11	-13	-41.11	-78.73	-63.6	2.39	11.88	H
									H
									H
									H
	3816	-63.02	-13	-50.02	-77.09	-69.7	1.70	8.38	V
	5723	-60.86	-13	-47.86	-79.34	-67.9	2.75	9.79	V
	7630	-54.01	-13	-41.01	-77.68	-63.5	2.39	11.88	V
									V
									V
									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	3425	-63.11	-13	-50.11	-75.55	-69.2	1.58	7.67	H
	5137	-58.32	-13	-45.32	-77.82	-65.6	2.42	9.70	H
	6850	-55.12	-13	-42.12	-78.14	-63.1	2.64	10.62	H
									H
									H
									H
	3425	-62.51	-13	-49.51	-75.41	-68.6	1.58	7.67	V
	5137	-59.62	-13	-46.62	-77.77	-66.9	2.42	9.70	V
	6850	-55.32	-13	-42.32	-77.96	-63.3	2.64	10.62	V
									V
									V
									V
Middle	3467	-62.64	-13	-49.64	-75.26	-68.9	1.59	7.85	H
	5198	-58.55	-13	-45.55	-77.42	-65.8	2.45	9.70	H
	6930	-55.10	-13	-42.10	-78.1	-63.2	2.61	10.72	H
									H
									H
									H
	3469	-59.53	-13	-46.53	-72.51	-65.8	1.59	7.86	V
	5198	-59.45	-13	-46.45	-77.42	-66.7	2.45	9.70	V
	6930	-54.90	-13	-41.90	-78.01	-63	2.61	10.72	V
									V
									V
									V
Highest	3504	-62.20	-13	-49.20	-75.37	-68.6	1.61	8.00	H
	5258	-58.39	-13	-45.39	-77.66	-65.6	2.49	9.70	H
	7010	-54.57	-13	-41.57	-78.12	-62.8	2.59	10.82	H
									H
									H
									H
	3504	-58.20	-13	-45.20	-71.94	-64.6	1.61	8.00	V
	5258	-59.29	-13	-46.29	-77.74	-66.5	2.49	9.70	V
	7010	-54.97	-13	-41.97	-78.16	-63.2	2.59	10.82	V
									V
									V
									V

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