



# FCC RADIO TEST REPORT

**FCC ID** : 2AJN7-TP00128A  
**Equipment** : Notebook Computer  
**Brand Name** : Lenovo  
**Model Name** : TP00128A  
**Applicant** : LC Future Center Limited Taiwan Branch  
7F., No. 780, Bei'an Rd., Zhongshan Dist., Taipei  
City 104, Taiwan  
**Manufacturer** : LCFC (HeFei) Electronics Technology Co., Ltd.  
No. 3188-1, Yungu Road (Hefei Export  
Processing Zone), Hefei Economics &  
Technology Development Area, Anhui, CHINA  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

Equipment: Quectel EM120R-GL tested inside of Lenovo Notebook Computer.

The product was received on Nov. 26, 2020 and testing was started from Dec. 25, 2020 and completed on Jan. 26, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan



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## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	§2.1046	Conducted Output Power	-	See Note
	§22.913 (a)(2)	Effective Radiated Power (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
-	§24.232 (d)	Peak-to-Average Ratio	-	See Note
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note
3.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	Under limit 33.39 dB at 7410.000 MHz

**Note:** The module (Model: EM120R-GL) makes no difference after verifying output power, this report reuses test data from the module report.

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang**

**Report Producer: Tina Chuang**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00128A
FCC ID	2AJN7-TP00128A
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS/NFC/UWB
EUT Stage	Production Unit

**Remark:**

1. The above EUT's information was declared by manufacturer.
2. Equipment: Quectel EM120R-GL tested inside of Lenovo Notebook Computer.

WWAN Antenna Information				
Main Antenna	Manufacturer	Amphenol	Peak gain (dBi)	1.62
	Part number	TKC114-16-000-C	Type	PIFA

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

## 1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	<b>WCDMA:</b> 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	<b>WCDMA:</b> Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
Type of Modulation	WCDMA: BPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA: QPSK (Uplink)

## 1.3 Modification of EUT

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



### 1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58 , Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan
Test Site No.	<b>Sporton Site No.</b> 03CH15-HY
Test Engineer	Leo Lee, Mancy Chou and Bigshow Wan
Temperature	22.6~23.2°C
Relative Humidity	47~53%

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW0007

### 1.5 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

## 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 v03r01 with maximum output power.

For radiated measurement, pre-scanned in Tablet type (three orthogonal panels, X, Y, Z) and Notebook type. The worst cases (Y Plane for Cellular and AWS Band ; X Plane for PCS Band) were recorded in this report.

Radiated emissions were investigated as following frequency range:

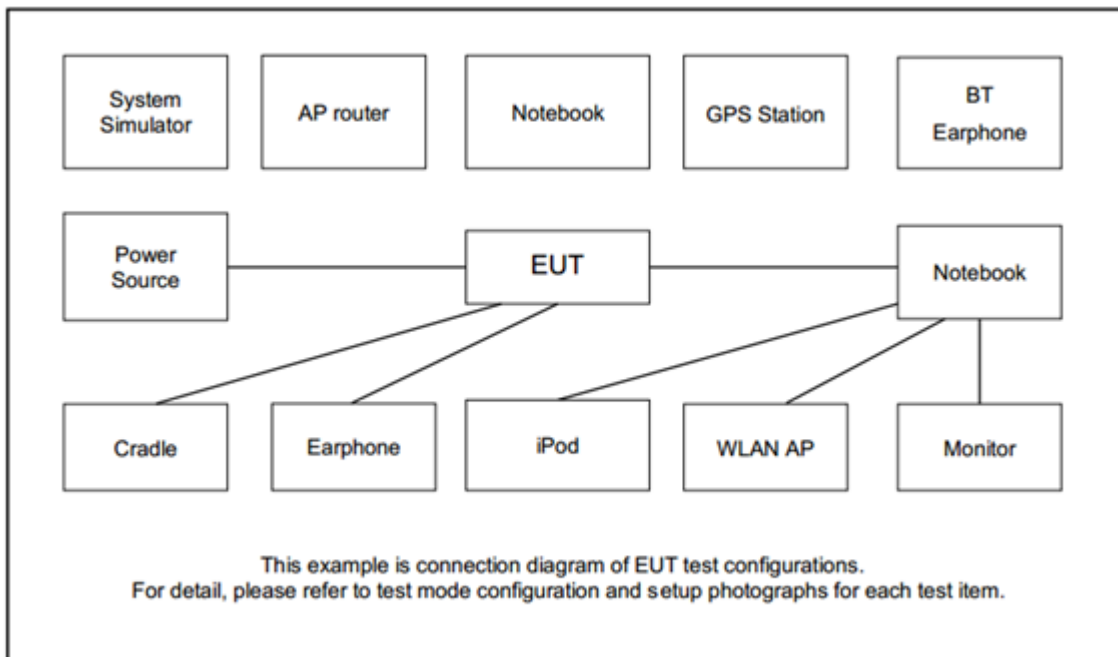
1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

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
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	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

## 2.4 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



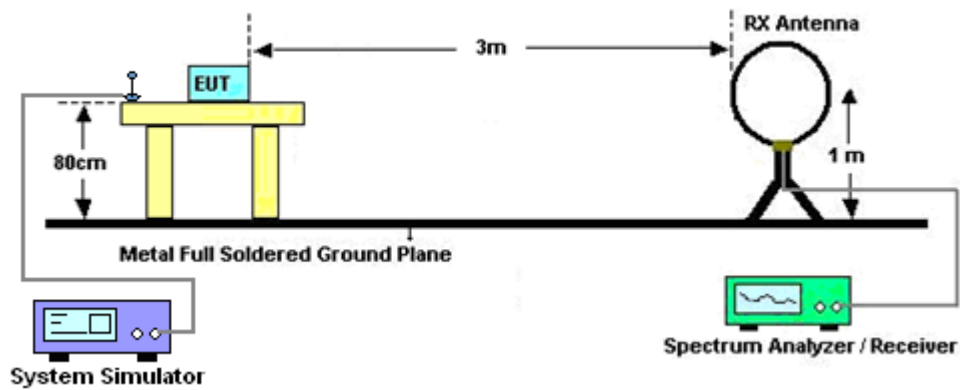
### 3 Radiated Test Items

#### 3.1 Measuring Instruments

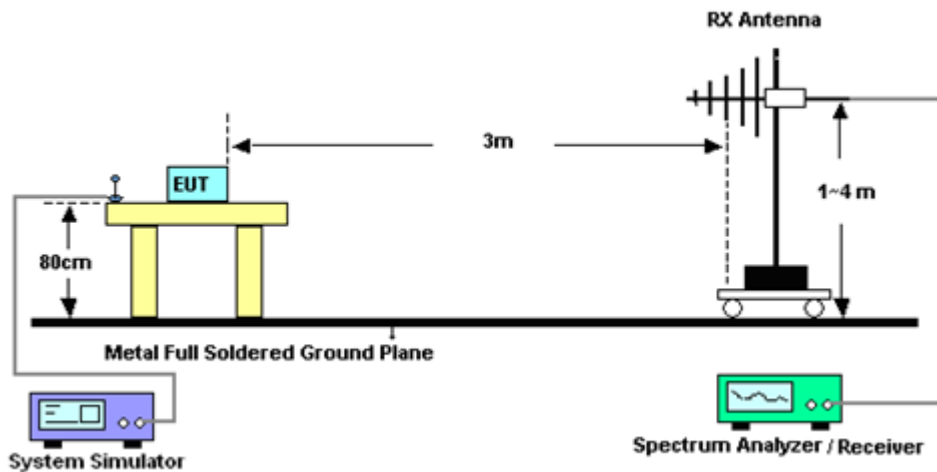
See list of measuring instruments of this test report.

#### 3.2 Test Setup

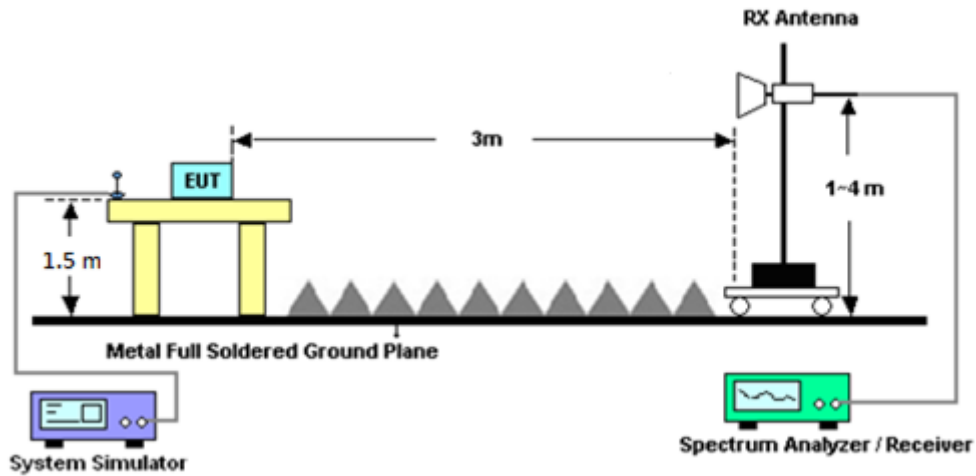
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



### 3.3 Test Result of Radiated Test

Please refer to Appendix A.

**Note:**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

## 3.4 Field Strength of Spurious Radiation Measurement

### 3.4.1 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.

### 3.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. 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.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. 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.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11.  $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Dec. 25, 2020~ Jan. 26, 2021	Jul. 13, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Dec. 25, 2020~ Jan. 26, 2021	Oct. 10, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00 800N1D01N-0 6	41912 & 05	30MHz to 1GHz	Feb. 09, 2020	Dec. 25, 2020~ Jan. 26, 2021	Feb. 08, 2021	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 21, 2020	Dec. 25, 2020~ Jan. 26, 2021	Oct. 20, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1-18GHz	Aug. 04, 2020	Dec. 25, 2020~ Jan. 26, 2021	Aug. 03, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Nov. 03, 2020	Dec. 25, 2020~ Jan. 26, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Dec. 11, 2020	Dec. 25, 2020~ Jan. 26, 2021	Dec. 10, 2021	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917057 6	18GHz~40GHz	May 22, 2020	Dec. 25, 2020~ Jan. 26, 2021	May 21, 2021	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	1710001800 055006	1GHz~18GHz	May 07, 2020	Dec. 25, 2020~ Jan. 26, 2021	May 06, 2021	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2020	Dec. 25, 2020~ Jan. 26, 2021	Aug. 20, 2021	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 11, 2020	Dec. 25, 2020~ Jan. 26, 2021	Dec. 10, 2021	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Dec. 25, 2020~ Jan. 26, 2021	Feb. 09, 2021	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	May 04, 2020	Dec. 25, 2020~ Jan. 26, 2021	May 03, 2021	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Dec. 25, 2020~ Jan. 26, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Dec. 25, 2020~ Jan. 26, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k 5)	RK-000451	N/A	N/A	Dec. 25, 2020~ Jan. 26, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 14, 2020	Dec. 25, 2020~ Jan. 26, 2021	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4PE	30M-18G	Apr. 14, 2020	Dec. 25, 2020~ Jan. 26, 2021	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY37710/4	30M-18G	Apr. 17, 2020	Dec. 25, 2020~ Jan. 26, 2021	Apr. 16, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 25, 2020	Dec. 25, 2020~ Jan. 26, 2021	Feb. 24, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 25, 2020	Dec. 25, 2020~ Jan. 26, 2021	Feb. 24, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 12, 2020	Dec. 25, 2020~ Jan. 26, 2021	Mar. 11, 2021	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN4	1.53G Low Pass	Jul. 03, 2020	Dec. 25, 2020~ Jan. 26, 2021	Jul. 02, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-1080-1200-15000-60ST	SN5	1.2GHz High Pass Filter	Jul. 01, 2020	Dec. 25, 2020~ Jan. 26, 2021	Jun. 30, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN4	3GHz High Pass Filter	Sep. 16, 2020	Dec. 25, 2020~ Jan. 26, 2021	Sep. 15, 2021	Radiation (03CH15-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 15, 2020	Dec. 25, 2020~ Jan. 26, 2021	Feb. 14, 2021	Radiation (03CH15-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.98
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.31
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.92
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## Appendix A. Test Results of Radiated Test

### WCDMA Band V

WCDMA Band V									
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	1656	-59.51	-13	-46.51	-71.54	-64.86	1.84	9.34	H
	2480	-52.57	-13	-39.57	-69.2	-58.85	2.25	10.68	H
	3305	-57.94	-13	-44.94	-76.62	-65.50	2.63	12.34	H
									H
									H
									H
	1656	-58.16	-13	-45.16	-70.65	-63.51	1.84	9.34	V
	2480	-49.11	-13	-36.11	-65.92	-55.39	2.25	10.68	V
	3305	-57.44	-13	-44.44	-76.52	-65.00	2.63	12.34	V
									V
									V
									V
Middle	1672	-61.23	-13	-48.23	-73.38	-66.66	1.85	9.43	H
	2512	-51.65	-13	-38.65	-68.38	-58.03	2.27	10.80	H
	3344	-57.89	-13	-44.89	-76.48	-65.74	2.65	12.65	H
									H
									H
									H
	1672	-60.42	-13	-47.42	-73.04	-65.85	1.85	9.43	V
	2512	-47.28	-13	-34.28	-64.13	-53.66	2.27	10.80	V
	3344	-57.50	-13	-44.50	-76.48	-65.35	2.65	12.65	V
									V
									V
									V



Highest	1696	-61.02	-13	-48.02	-73.36	-66.59	1.86	9.58	H
	2544	-49.43	-13	-36.43	-66.03	-55.80	2.28	10.80	H
	3386	-58.25	-13	-45.25	-76.73	-66.06	2.67	12.63	H
									H
									H
									H
	1696	-59.56	-13	-46.56	-72.38	-65.13	1.86	9.58	V
	2544	-47.62	-13	-34.62	-64.54	-53.99	2.28	10.80	V
	3386	-57.93	-13	-44.93	-76.78	-65.74	2.67	12.63	V
									V
									V
									V

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





**WCDMA Band IV**

WCDMA Band IV									
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	-57.57	-13	-44.57	-77.05	-67.49	2.68	12.60	H
	5135	-53.37	-13	-40.37	-77.72	-62.49	3.32	12.44	H
	6850	-49.10	-13	-36.10	-77.18	-57.64	3.86	12.40	H
									H
									H
									H
	3427	-57.26	-13	-44.26	-77.11	-67.18	2.68	12.60	V
	5135	-52.24	-13	-39.24	-77.15	-61.36	3.32	12.44	V
	6850	-48.73	-13	-35.73	-77.16	-57.27	3.86	12.40	V
									V
									V
									V
Middle	3462	-56.93	-13	-43.93	-76.74	-66.78	2.70	12.55	H
	5198	-53.03	-13	-40.03	-77.61	-62.48	3.34	12.79	H
	6927	-47.83	-13	-34.83	-76.13	-55.94	3.89	12.00	H
									H
									H
	3462	-56.53	-13	-43.53	-76.71	-66.38	2.70	12.55	V
	5198	-51.57	-13	-38.57	-76.65	-61.02	3.34	12.79	V
	6927	-47.51	-13	-34.51	-75.91	-55.62	3.89	12.00	V
									V
									V



Highest	3504	-56.31	-13	-43.31	-76.48	-65.97	2.72	12.38	H
	5258	-52.69	-13	-39.69	-77.31	-62.56	3.36	13.23	H
	7010	-47.58	-13	-34.58	-76.11	-55.51	3.91	11.84	H
									H
									H
									H
	3504	-55.91	-13	-42.91	-76.45	-65.57	2.72	12.38	V
	5258	-51.77	-13	-38.77	-76.79	-61.64	3.36	13.23	V
	7010	-48.10	-13	-35.10	-76.52	-56.03	3.91	11.84	V
									V
									V
									V

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



**WCDMA Band II**

WCDMA Band II									
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	-55.25	-13	-42.25	-76.16	-64.89	2.77	12.41	H
	5557	-51.95	-13	-38.95	-76.96	-61.87	3.46	13.39	H
	7410	-46.90	-13	-33.90	-76.42	-54.08	3.98	11.16	H
									H
									H
									H
	3707	-54.83	-13	-41.83	-76.14	-64.47	2.77	12.41	V
	5557	-50.02	-13	-37.02	-75.11	-59.94	3.46	13.39	V
	7410	-46.39	-13	-33.39	-76.37	-53.57	3.98	11.16	V
									V
									V
									V
Middle	3763	-55.35	-13	-42.35	-76.45	-65.04	2.78	12.47	H
	5639	-52.73	-13	-39.73	-77.74	-62.70	3.48	13.46	H
	7522	-47.67	-13	-34.67	-77.08	-54.86	4.01	11.20	H
									H
									H
									H
	3763	-54.94	-13	-41.94	-76.43	-64.63	2.78	12.47	V
	5639	-51.65	-13	-38.65	-76.88	-61.62	3.48	13.46	V
	7522	-46.97	-13	-33.97	-76.78	-54.16	4.01	11.20	V
									V
									V
									V



Highest	3812	-55.34	-13	-42.34	-76.56	-64.92	2.79	12.38	H
	5723	-51.95	-13	-38.95	-77.41	-61.85	3.50	13.40	H
	7627	-47.57	-13	-34.57	-76.63	-54.98	4.05	11.45	H
									H
									H
									H
									H
	3812	-54.58	-13	-41.58	-76.19	-64.16	2.79	12.38	V
	5723	-50.44	-13	-37.44	-76.13	-60.34	3.50	13.40	V
	7627	-46.91	-13	-33.91	-76.51	-54.32	4.05	11.45	V
									V
									V
									V
									V

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