



# FCC RADIO TEST REPORT

**FCC ID** : 2AJN7-TP00145ALF  
**Equipment** : Notebook Computer  
**Brand Name** : Lenovo  
**Compliance ID** : TP00145A; TP00145B  
**Applicant** : LC Future Center Limited Taiwan Branch  
7F., No.780, Beian Rd., Zhongshan Dist., Taipei 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, and 90(S)

Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

The product was received on Nov. 14, 2022 and testing was performed from Dec. 29, 2022 to Jan. 05, 2023. We, Sporton International Inc. Wensan 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**



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## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046 §90.635	Conducted Output Power and Effective Radiated Power	Pass	-
-	-	Peak-to-Average Ratio	-	See Note
-	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	-	See Note
-	§2.1051 §90.691	Emission masks – In-band emissions	-	See Note
-	§2.1051 §90.691	Emission masks – Out of band emissions	-	See Note
-	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	-	See Note
3.3	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	20.72 dB under the limit at 2440.000 MHz

**Note:**

1. For host device, Radiated Spurious Emission and Effective Radiated Power are verified and complies with the limit in this test report.
2. For host device, the Conducted Output Power is no difference after compared to module (Model: L860-GL-16).

**Declaration of Conformity:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".

**Comments and Explanations:**

1. The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The purpose of different Compliance ID is for CPU (Intel/AMD).

**Reviewed by: Sheng Kuo**
**Report Producer: Ruby Zou**



# 1 General Description

## 1.1 Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Compliance ID	TP00145A; TP00145B
FCC ID	2AJN7-TP00145ALF
Sample 1	EUT with Amphenol Taiwan Corporation Antenna
Sample 2	EUT with Speed Antenna
Integrated WLAN Module	Brand Name: Intel Model Name: AX211D2W FCC ID: PD9AX211D2
Integrated WLAN Module	Brand Name: Qualcomm Model Name: QCNFA725 FCC ID: A5M-QCNFA725
Integrated NFC Module	Brand Name: Foxconn Model Name: T77H747
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

**Remark:**

1. The above EUT's information was declared by manufacturer.
2. Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

WWAN Antenna Information				
Main Antenna	Manufacturer	Amphenol Taiwan Corporation	Peak gain (dBi)	LTE Band 26: -1.0
	Part number	DC33001YS50	Type	PIFA
	Manufacturer	Speed	Peak gain (dBi)	LTE Band 26: -1.0
	Part number	DC33001YT50	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 is subject to this standard	
Tx Frequency	LTE Band 26: 814.7 ~ 823.3 MHz
Rx Frequency	LTE Band 26: 859.7 ~ 868.3 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to Antenna	23.40 dBm
Type of Modulation	QPSK / 16QAM / 64QAM

## 1.3 Modification of EUT

No modifications made to the EUT during the testing.

## 1.4 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333
Test Site No.	<b>Sporton Site No.</b>
	TH03-HY (TAF Code: 1190)
Test Engineer	Cotty Hsu
Temperature (°C)	22.2~23.1
Relative Humidity (%)	51~56
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010
Test Site No.	<b>Sporton Site No.</b>
	03CH20-HY
Test Engineer	John Chuang, JC Liang and Howard Huang
Temperature (°C)	18~22
Relative Humidity (%)	60~70

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

FCC Designation No.: TW1190 and TW3786



## 1.5 Applied Standards

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

- ♦ FCC 47 CFR Part 2, 90
- ♦ ANSI / TIA-603-E
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

## 2 Test Configuration of Equipment Under Test

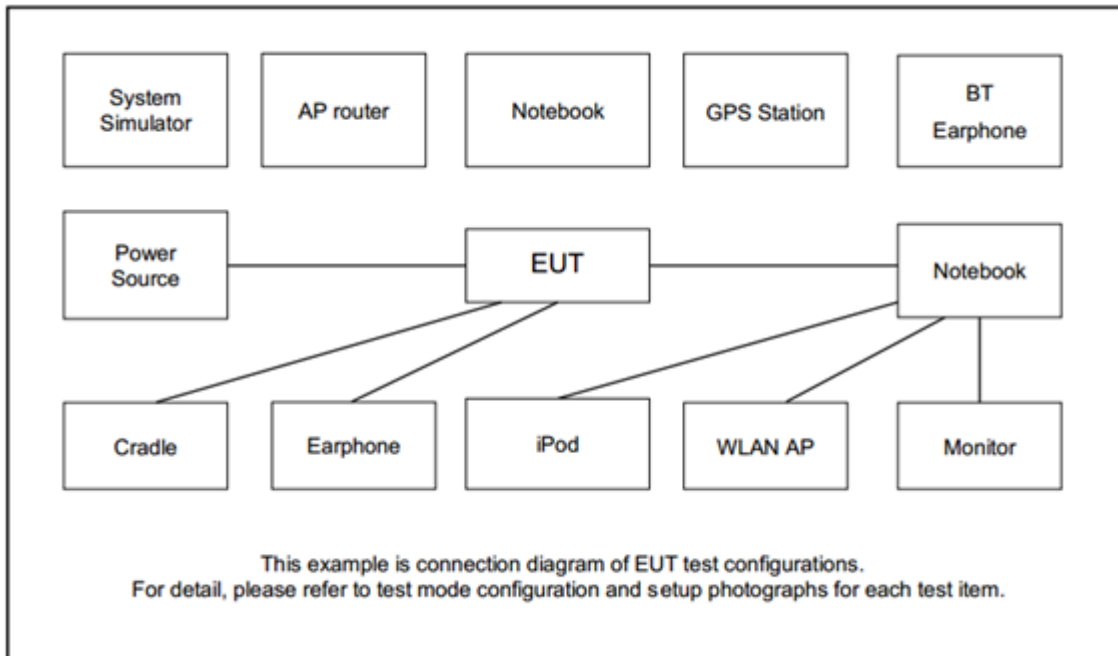
### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	26	v	v	v	v	v	-	v	v		v			v	v	v
E.R.P.	26	v	v	v	v	v	-	v	v		Max. Power					
Radiated Spurious Emission	26	v		v	v		-	v			v			v	v	v
Remark	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>All the radiated test cases were performed with Sample 2.</li> <li>For modulation of QPSK/16QAM, the maximum power of QPSK/16QAM is higher than other modulation(64QAM), therefore, according to engineering evaluation , we choose higher power (QPSK/16QAM) to perform all tests and show in the report.</li> </ol>															

### 2.2 Connection Diagram of Test System







### 2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

### 2.4 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26765	-	-
	Frequency	821.5	-	-
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3

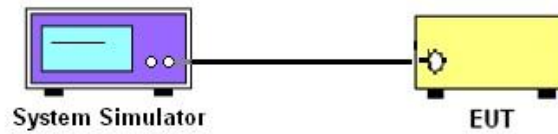
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



## 3.2 Conducted Output Power Measurement and ERP Measurement

### 3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

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 output power of mobile transmitters must not exceed 100 Watts for LTE Band 26.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ , 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

### 3.2.2 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 and record the power level from the system simulator.

### 3.3 Field Strength of Spurious Radiation Measurement

#### 3.3.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

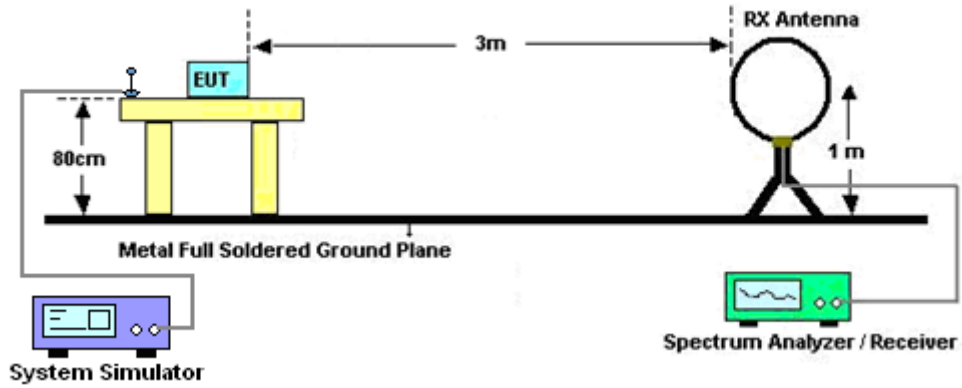
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43+10\log_{10}(P[\text{Watts}])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.3.2 Test Procedures

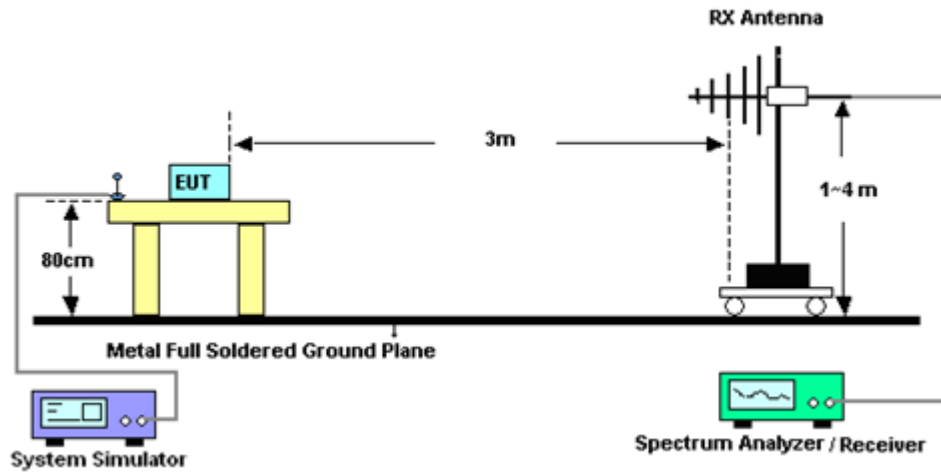
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the 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.  $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
12.  $\text{ERP (dBm)} = \text{EIRP} - 2.15$
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)

### 3.3.3 Test Setup

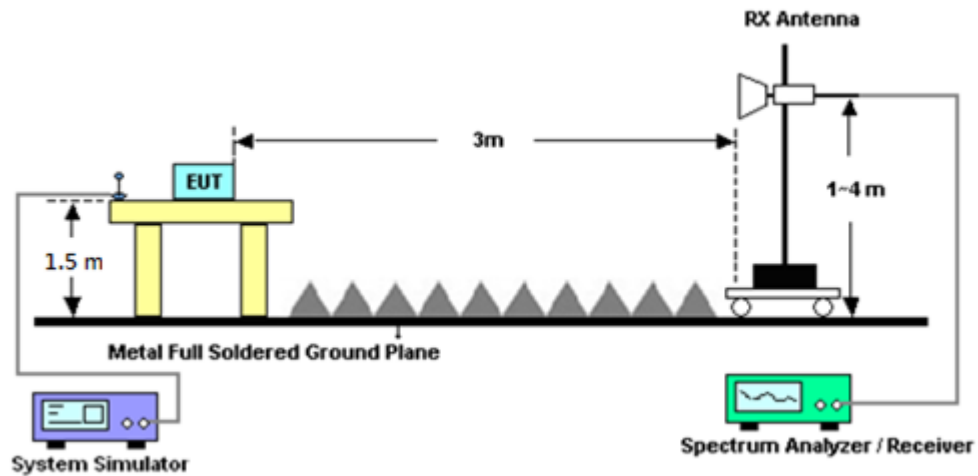
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



### 3.3.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

**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 adequate comparison measurement 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.



## 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	100315	9 kHz~30 MHz	Jan. 07, 2022	Jan. 03, 2023~ Jan. 05, 2023	Jan. 06, 2023	Radiation (03CH20-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Jan. 03, 2023~ Jan. 05, 2023	Oct. 17, 2023	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jan. 03, 2023~ Jan. 05, 2023	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 03, 2023~ Jan. 05, 2023	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 03, 2023~ Jan. 05, 2023	N/A	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 22, 2022	Jan. 03, 2023~ Jan. 05, 2023	Oct. 21, 2023	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 09, 2022	Jan. 03, 2023~ Jan. 05, 2023	Aug. 08, 2023	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 02, 2023	Jan. 03, 2023~ Jan. 05, 2023	Jan. 01, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 14, 2022	Jan. 03, 2023~ Jan. 05, 2023	Nov. 13, 2023	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,80 4015/2,8040 27/2	N/A	Jan. 19, 2022	Jan. 03, 2023~ Jan. 05, 2023	Jan. 18, 2023	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200728	N/A	Mar. 22, 2022	Jan. 03, 2023~ Jan. 05, 2023	Mar. 21, 2023	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Jan. 03, 2023~ Jan. 05, 2023	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 22, 2022	Jan. 03, 2023~ Jan. 05, 2023	Dec. 21, 2023	Radiation (03CH20-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 13, 2022	Dec. 29, 2022~ Dec. 30, 2022	Oct. 12, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 07, 2022	Dec. 29, 2022~ Dec. 30, 2022	Jan. 06, 2023	Conducted (TH03-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.33 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.40 dB
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & ERP)

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.92	-	-	19.77	0.0948
15	1	0	16-QAM	21.96	-	-	18.81	0.0760
Limit	Conducted power < 100W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	22.93	-	19.78	0.0951
10	1	0	16-QAM	-	21.72	-	18.57	0.0719
Limit	Conducted power < 100W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.34	22.89	22.89	20.19	0.1045
5	1	0	16-QAM	21.86	22.36	21.85	19.21	0.0834
Limit	Conducted power < 100W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.63	22.86	22.92	19.77	0.0948
3	1	0	16-QAM	21.72	22.58	21.68	19.43	0.0877
Limit	Conducted power < 100W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.40	22.21	22.85	20.25	0.1059
1.4	1	0	16-QAM	21.85	22.36	22.18	19.21	0.0834
Limit	Conducted power < 100W			Result			Pass	



## Appendix B. Test Results of Radiated Test

### LTE Band 26

LTE Band 26 / 1.4MHz / QPSK									
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	1632	-55.14	-13	-42.14	-64.1	-57.45	4.90	9.36	H
	2440	-36.70	-13	-23.70	-48.76	-39.02	6.03	10.50	H
	4072	-56.12	-13	-43.12	-74.91	-57.80	7.91	11.74	H
									H
									H
									H
									H
	1632	-55.29	-13	-42.29	-64.01	-57.60	4.90	9.36	V
	2440	-33.72	-13	-20.72	-45.78	-36.04	6.03	10.50	V
	4072	-50.04	-13	-37.04	-68.75	-51.72	7.91	11.74	V
									V
	Middle	1640	-49.69	-13	-36.69	-58.65	-52.05	4.91	9.42
2456		-38.02	-13	-25.02	-50.13	-40.32	6.05	10.50	H
4096		-54.79	-13	-41.79	-73.64	-56.50	7.93	11.79	H
									H
									H
									H
									H
1640		-51.46	-13	-38.46	-60.19	-53.82	4.91	9.42	V
2456		-36.13	-13	-23.13	-48.22	-38.43	6.05	10.50	V
4096		-51.71	-13	-38.71	-70.53	-53.42	7.93	11.79	V
									V
									V
								V	



Highest	1648	-52.28	-13	-39.28	-61.24	-54.69	4.92	9.48	H
	2472	-36.49	-13	-23.49	-48.67	-38.77	6.07	10.50	H
	4112	-57.41	-13	-44.41	-76.3	-59.12	7.94	11.80	H
									H
									H
									H
									H
	1648	-51.81	-13	-38.81	-60.54	-54.22	4.92	9.48	V
	2472	-35.48	-13	-22.48	-47.61	-37.76	6.07	10.50	V
	4112	-54.82	-13	-41.82	-73.7	-56.53	7.94	11.80	V
									V
									V
									V
									V
								V	

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



LTE Band 26 / 5MHz / QPSK									
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	1632	-56.03	-13	-43.03	-64.99	-58.34	4.90	9.36	H
	2440	-36.55	-13	-23.55	-48.61	-38.87	6.03	10.50	H
	4072	-52.18	-13	-39.18	-70.97	-53.86	7.91	11.74	H
									H
									H
									H
									H
	1632	-56.73	-13	-43.73	-65.45	-59.04	4.90	9.36	V
	2440	-34.57	-13	-21.57	-46.63	-36.89	6.03	10.50	V
	4072	-47.45	-13	-34.45	-66.16	-49.13	7.91	11.74	V
									V
									V
									V
									V
Middle	1632	-48.09	-13	-35.09	-57.05	-50.40	4.90	9.36	H
	2448	-37.40	-13	-24.40	-49.49	-39.71	6.04	10.50	H
	4088	-53.04	-13	-40.04	-71.87	-54.74	7.93	11.78	H
									H
									H
									H
									H
	1632	-50.81	-13	-37.81	-59.53	-53.12	4.90	9.36	V
	2448	-36.29	-13	-23.29	-48.37	-38.60	6.04	10.50	V
	4088	-50.50	-13	-37.50	-69.28	-52.20	7.93	11.78	V
									V
									V
									V
									V
								V	



Highest	1640	-55.42	-13	-42.42	-64.38	-57.78	4.91	9.42	H
	2456	-36.01	-13	-23.01	-48.12	-38.31	6.05	10.50	H
	4096	-53.40	-13	-40.40	-72.25	-55.11	7.93	11.79	H
									H
									H
									H
									H
	1640	-54.10	-13	-41.10	-62.83	-56.46	4.91	9.42	V
	2456	-34.05	-13	-21.05	-46.14	-36.35	6.05	10.50	V
	4096	-48.76	-13	-35.76	-67.58	-50.47	7.93	11.79	V
									V
									V
									V
									V

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



LTE Band 26 / 10MHz / QPSK									
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)
Middle	1632	-52.27	-13	-39.27	-61.23	-54.58	4.90	9.36	H
	2448	-38.97	-13	-25.97	-51.06	-41.28	6.04	10.50	H
	4072	-55.82	-13	-42.82	-74.61	-57.50	7.91	11.74	H
									H
									H
									H
									H
	1632	-53.42	-13	-40.42	-62.14	-55.73	4.90	9.36	V
	2448	-35.30	-13	-22.30	-47.36	-37.61	6.04	10.50	V
	4072	-50.07	-13	-37.07	-68.78	-51.75	7.91	11.74	V
									V
									V
									V
									V

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