



# FCC RADIO TEST REPORT

**FCC ID** : 2AJN7-TP00109B  
**Equipment** : Notebook Computer  
**Brand Name** : Lenovo  
**Model Name** : TP00109B  
**Applicant** : LC Future Center Limited Taiwan Branch  
7F., No.780, Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan  
**Manufacturer** : LC Future Center Limited Taiwan Branch  
7F., No.780, Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan  
**Standard** : FCC 47 CFR Part 2, 90(R)

Equipment: Fibocom L860-GL and Intel AX201D2W tested inside of Lenovo Notebook Computer.

The product was received on Oct. 11, 2019 and testing was started from Oct. 23, 2019 and completed on Oct. 29, 2019. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant 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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## History of this test report

Report No.	Version	Description	Issued Date
FG901135D	01	Initial issue of report	Nov. 25, 2019

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§90.542 (a)(7)	Effective Radiated Power	Pass	-
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	Under limit 3.41 dB at 1576.000 MHz

**Remark:** This is a variant report which can be referred Product Equality Declaration. All the test cases were performed on original report which can be referred to Sporton Report Number FG931312E .Based on the original report, the test cases were verified.

### 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: Dara Chiu**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00109B
FCC ID	2AJN7-TP00109B
Sample 1	EUT with Amphenol Antenna
Sample 2	EUT with SPEEDWIRE Antenna
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS
EUT Stage	Production Unit

**Remark:**

1. The above EUT's information was declared by manufacturer.
2. Equipment: Fibocom L860-GL and Intel AX201D2W tested inside of Lenovo Notebook Computer.

Antenna Information				
WWAN				3G&LTE (dBi)
Antenna 1	Manufacturer	Amphenol	Peak gain	1.12
	Part number	LXA113-16-000-C	Type	PIFA
Antenna 2	Manufacturer	SPEEDWIRE	Peak gain	1.63
	Part number	F.0G.ZV-0009-001-00	Type	PIFA

## 1.2 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	LTE Band 14 :790.5 MHz ~ 795.5 MHz
Rx Frequency	LTE Band 14 :760.5 MHz ~ 765.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	23.17 dBm
Type of Modulation	QPSK / 16QAM / 64QAM

## 1.3 Modification of EUT

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

## 1.4 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	TH05-HY
<b>Test Engineer</b>	Jacky Wang
<b>Temperature</b>	23~25°C
<b>Relative Humidity</b>	52~55%

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

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	03CH13-HY
<b>Test Engineer</b>	JC Liang and Wilson Wu
<b>Temperature</b>	21.5~23.5
<b>Relative Humidity</b>	46.9~49.5

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

FCC Designation No.: TW1190 and TW0007

## 1.5 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 2, Part 90(R)
- ♦ ANSI / TIA-603-E
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ 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.

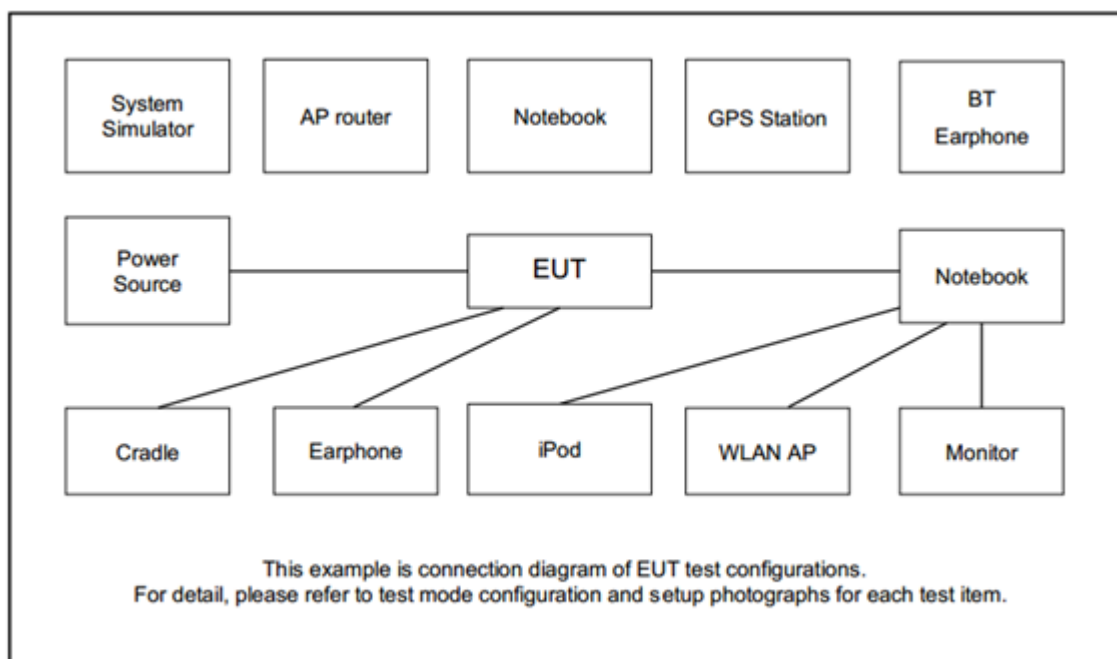
## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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	14	-	-	V	V	-	-	V	V	V	V	V	V	V	V	V
E.R.P	14	-	-	V	V	-	-	V	V	V	V			V	V	V
Radiated Spurious Emission	14	Worst Case												V	V	V
Remark	1. The mark "V " means that this configuration is chosen for testing 2. The mark "- " means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All the radiated test cases were performed with Adapter 1 and Sample 2.															

### 2.2 Connection Diagram of Test System





## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade 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

LTE Band 14 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23330	-
	Frequency	-	793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5



### 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

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

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

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

### 3.2.2 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

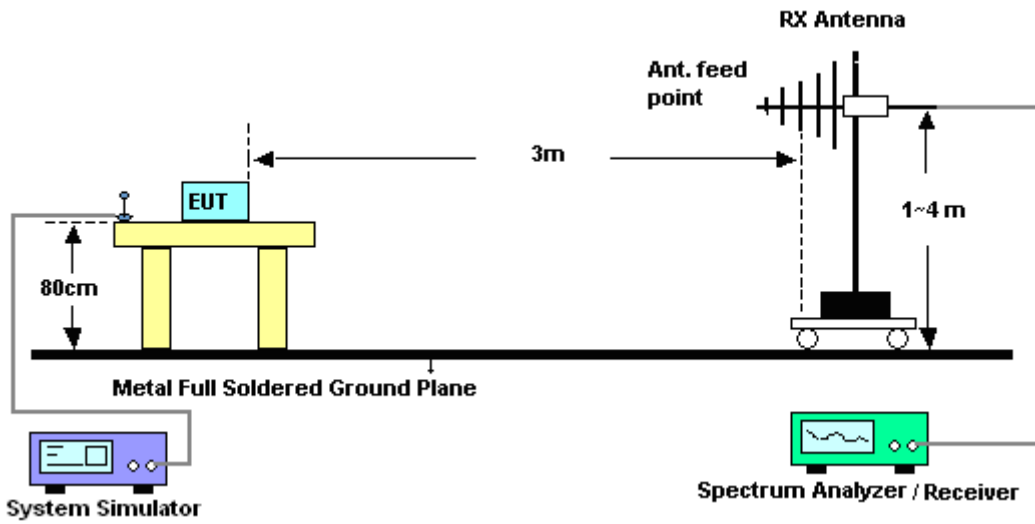
## 4 Radiated Test Items

### 4.1 Measuring Instruments

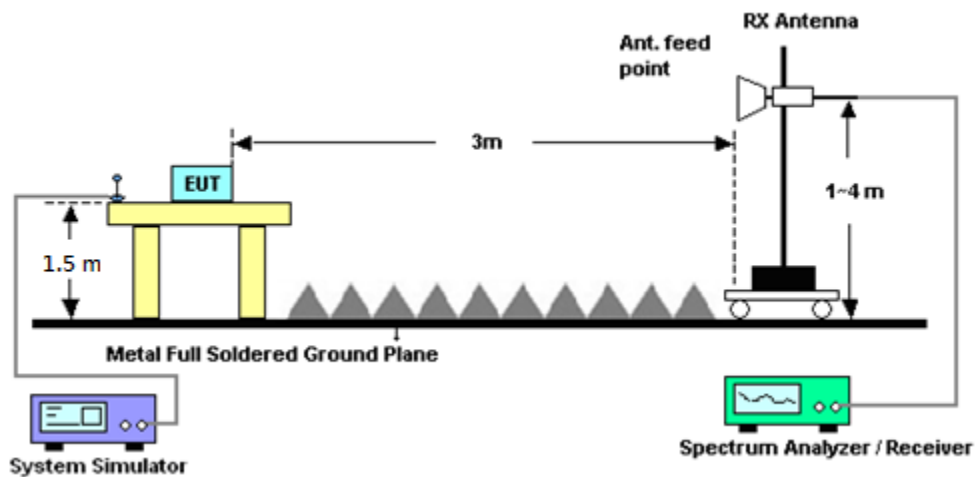
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



#### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

## 4.2 Radiated Spurious Emission

### 4.2.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.2.2 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 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from  $43 + 10\log(P)$ 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
LTE Base Station	Anritsu	MT8820C	6201107509	-	Jul. 03, 2019	Oct. 23, 2019	Jul. 02, 2020	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 30, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Apr. 29, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	54682 & AT-N0603	30MHz~1GHz	Sep. 26, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Sep. 25, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 02, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Jul. 01, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 14, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	May 13, 2020	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	May 13, 2020	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz~40GHz	Dec. 05, 2018	Oct. 23, 2019 ~ Oct. 29, 2019	Dec. 04, 2019	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 18, 2018	Oct. 23, 2019 ~ Oct. 29, 2019	Dec. 17, 2019	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 20, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	May 19, 2020	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 06, 2018	Oct. 23, 2019 ~ Oct. 29, 2019	Dec. 05, 2019	Radiation (03CH13-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 27, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	May 26, 2020	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 19, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Mar. 18, 2020	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Oct. 23, 2019 ~ Oct. 29, 2019	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 23, 2019 ~ Oct. 29, 2019	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 23, 2019 ~ Oct. 29, 2019	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Oct. 23, 2019 ~ Oct. 29, 2019	N/A	Radiation (03CH13-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Aug. 26, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SF102/2*11SK 252	MY4278/2	9kHz~40GHz	May 16, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	May 15, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 13, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 13, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Mar. 12, 2020	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OSS	SN2	3GHz High Pass Filter	Jul. 14, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Jul. 13, 2020	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 OSS	SN3	1.2GHz High Pass Filter	Jul. 03, 2019	Oct. 23, 2019 ~ Oct. 29, 2019	Jul. 02, 2020	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% ( $U = 2U_c(y)$ )	3.07
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	3.48
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

### Conducted Output Power(Average power)

LTE Band 14 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
10	1	0	QPSK	-	23.17	-			
10	1	25			22.98				
10	1	49			23.09				
10	25	0			22.11				
10	25	12			22.01				
10	25	25			22.10				
10	50	0			22.05				
10	1	0			22.35				
10	1	25	16-QAM		22.24				
10	1	49			22.53				
10	25	0			21.20				
10	25	12			21.05				
10	25	25			21.21				
10	50	0			21.13				
10	1	0			21.38				
10	1	25			64-QAM		21.23		
10	1	49	21.49						
10	25	0	20.18						
10	25	12	20.07						
10	25	25	20.21						
10	50	0	20.18						
5	1	0	QPSK				22.99	23.09	23.04
5	1	12					22.95	22.97	22.98
5	1	24			23.07		23.12	23.07	
5	12	0		22.02	22.04	22.03			
5	12	7		21.96	21.95	21.99			
5	12	13		22.06	22.00	22.04			
5	25	0		21.96	21.97	21.96			
5	1	0	16-QAM	22.34	22.29	22.34			
5	1	12		22.19	22.16	22.17			
5	1	24		22.43	22.47	22.44			
5	12	0		21.13	21.14	21.13			
5	12	7		20.96	21.00	20.95			
5	12	13		21.12	21.14	21.18			
5	25	0		21.11	21.05	21.06			
5	1	0	64-QAM	21.36	21.30	21.38			
5	1	12		21.15	21.23	21.18			
5	1	24		21.44	21.41	21.42			
5	12	0		20.18	20.09	20.12			
5	12	7		20.07	20.01	20.06			
5	12	13		20.19	20.15	20.21			
5	25	0		20.10	20.15	20.15			

**Appendix B. Test Results of ERP and Radiated Test****ERP**

LTE Band 14 / 5MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	23.07	0.2028	21.92	0.1556
Middle		1	24	23.12	0.2051	21.97	0.1574
Highest		1	24	23.07	0.2028	21.92	0.1556
Lowest	16QAM	1	24	22.43	0.1750	21.28	0.1343
Middle		1	24	22.47	0.1766	21.32	0.1355
Highest		1	24	22.44	0.1754	21.29	0.1346
Lowest	64QAM	1	24	21.44	0.1393	20.29	0.1069
Middle		1	24	21.41	0.1384	20.26	0.1062
Highest		1	24	21.42	0.1387	20.27	0.1064
Limit	ERP < 3W			Result		PASS	

LTE Band 14 / 10MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.17	0.2075	22.02	0.1592
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	49	22.53	0.1791	21.38	0.1374
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	49	21.49	0.1409	20.34	0.1081
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



**Radiated Spurious Emission****LTE Band 14**

LTE Band 14 / 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	1584	-45.85	-42.15	-3.70	-58.9	-51.02	1.20	8.52	H
	2376	-41.09	-13	-28.09	-58.27	-47.92	1.42	10.40	H
	3168	-52.72	-13	-39.72	-71.75	-60.38	1.60	11.40	H
									H
									H
	1584	-49.14	-42.15	-6.99	-62	-54.31	1.20	8.52	V
	2376	-43.58	-13	-30.58	-61.3	-50.41	1.42	10.40	V
	3168	-48.28	-13	-35.28	-67.5	-55.94	1.60	11.40	V
									V
									V
Middle	1592	-46.45	-42.15	-4.30	-59.43	-51.64	1.20	8.55	H
	2384	-39.66	-13	-26.66	-56.77	-46.50	1.42	10.41	H
	3184	-51.78	-13	-38.78	-70.9	-59.47	1.61	11.45	H
									H
									H
	1592	-47.04	-42.15	-4.89	-59.84	-52.23	1.20	8.55	V
	2384	-42.04	-13	-29.04	-59.7	-48.88	1.42	10.41	V
	3184	-47.08	-13	-34.08	-66.35	-54.77	1.61	11.45	V
									V
									V



LTE Band 14 / 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)
Highest	1592	-47.13	-42.15	-4.98	-60.11	-52.32	1.20	8.55	H
	2392	-37.83	-13	-24.83	-54.89	-44.67	1.42	10.41	H
	3192	-51.53	-13	-38.53	-70.67	-59.24	1.62	11.48	H
									H
									H
	1592	-48.54	-42.15	-6.39	-61.34	-53.73	1.20	8.55	V
	2392	-42.15	-13	-29.15	-59.75	-48.99	1.42	10.41	V
	3192	-48.32	-13	-35.32	-67.61	-56.03	1.62	11.48	V
									V
									V

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

LTE Band 14 / 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	1576	-45.56	-42.15	-3.41	-58.7	-50.70	1.20	8.49	H
	2368	-42.11	-13	-29.11	-59.35	-48.94	1.42	10.39	H
	3152	-53.39	-13	-40.39	-72.36	-61.01	1.58	11.36	H
									H
									H
	1576	-47.02	-42.15	-4.87	-59.96	-52.16	1.20	8.49	V
	2368	-46.67	-13	-33.67	-64.45	-53.50	1.42	10.39	V
	3152	-50.18	-13	-37.18	-69.36	-57.80	1.58	11.36	V
									V
									V

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