



Report No.: FG102144D

FCC RADIO TEST REPORT

FCC ID : 2AJN7-TP00130CLF Equipment : Notebook Computer

Brand Name : Lenovo

Model Name : TP00130C; TP00130D

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, 90(R)

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

The product was received on Oct. 22, 2021 and testing was performed from Nov. 01, 2021 to Nov. 12, 2021. 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 of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Louis Win

Sporton International Inc. Wensan Laboratory

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History of this test report

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Report No.	Version	Description	Issued Date
FG1O2144D	01	Initial issue of report	Dec. 29, 2021

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark	
3.2	§2.1046	Conducted Output Power	Reporting only	-	
3.2	§90.542 (a)(7)	Effective Radiated Power	Pass	-	
-	-	Peak-to-Average Ratio	-	See Note	
-	§2.1049	Occupied Bandwidth	-	See Note	
-	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	-	See Note	
-	§2.1051 §90.210 (n)	Emission Mask	-	See Note	
-	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	-	See Note	
-	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	-	See Note	
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	Under limit 2.36 dB at 1586.000 MHz	

Note:

- 1. The module (Model: L860-GL-16) makes no difference after verifying output power, this report reuses test data from the module report.
- 2. Conducted power was verified to be consistent with the original modular approval, so the output power level in the original modular grant is referenced in this report for determining ERP of this host product.

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: Sheng Kuo Report Producer: Amy Chen

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1 General Description

1.1 Product Feature of Equipment Under Test

	Product Feature
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00130C; TP00130D
FCC ID	2AJN7-TP00130CLF
Sample 1	EUT with Amphenol Antenna
Sample 2	EUT with Speed Antenna
	WCDMA/HSPA/LTE/GNSS/NFC/UWB
	WLAN 11a/b/g/n HT20/HT40
EUT supports Radios application	WLAN 11ac VHT20/VHT40/VHT80/VHT160
	WLAN 11ax HE20/HE40/HE80/HE160
	Bluetooth BR/EDR/LE
EUT Stage	Production Unit

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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								
	Manufacturer	Amphenol	Peak gain (dBi)	LTE Band 14: 1.7				
Main Antenna	Part number	DC33001VG40	Туре	PIFA				
wain Antenna	Manufacturer	Speed	Peak gain (dBi)	LTE Band 14: 1.7				
	Part number	DC33001VH40	Туре	PIFA				

Remark:

- The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
- 2. All the tests items were performed with "Amphenol Antenna" as representative.

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard						
Tx Frequency	790.5 MHz ~ 795.5 MHz					
Rx Frequency	760.5 MHz ~ 765.5 MHz					
Bandwidth	5MHz / 10MHz					
Maximum Output Power to Antenna	23.35 dBm					
Type of Modulation	QPSK / 16QAM / 64QAM					

1.3 Modification of EUT

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

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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					
Took Site No	Sporton Site No.					
Test Site No.	TH03-HY (TAF Code: 1190)					
Test Engineer	Benjamin Lin					
Temperature	23.5~25.0℃					
Relative Humidity	49.4~52.0%					
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.					

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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.	Sporton Site No.				
rest Site No.	03CH11-HY				
Test Engineer	Harvey Guo, Fu Chen, and Troye Hsieh				
Temperature	26.1~27.3℃				
Relative Humidity	66.1~69.5%				

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

- + ANSI C63.26-2015
- FCC 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
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- 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.

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2 Test Configuration of Equipment Under Test

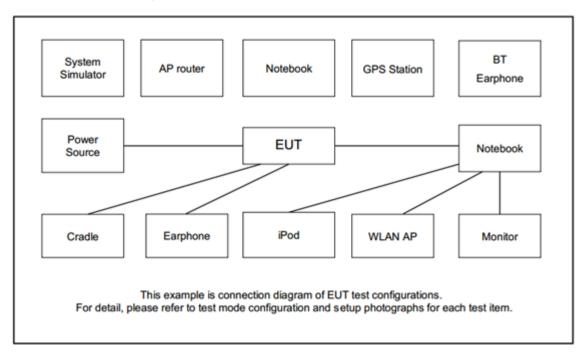
2.1 Test Mode

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.

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Conducted	Band	Bandwidth (MHz)			Modulation			RB#			Test Channel					
Test Cases		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
Max. Output Power	14	•	-	٧	v	-	1	V	v	v	٧		v	٧	v	v
E.R.P	14	-	-	v	v	-	-	v	v	v	Max. Power					
Radiated Spurious Emission	14		-	v	v	-	-	v			v			v	v	v
Remark	2. Th 3. Th en on	 The mark "-" means that this bandwidth is not supported. 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. 														

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item	m 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

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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	-					
10	Frequency	-	793	-					
E	Channel	23305	23330	23355					
5	Frequency	790.5	793	795.5					

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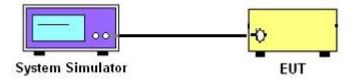
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

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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.

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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.

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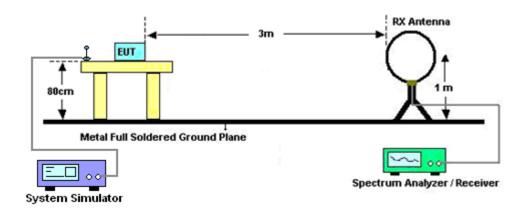
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

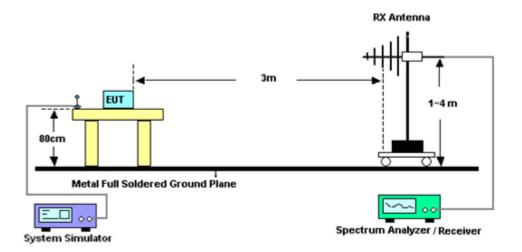
4.1.1 Test Setup

For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz



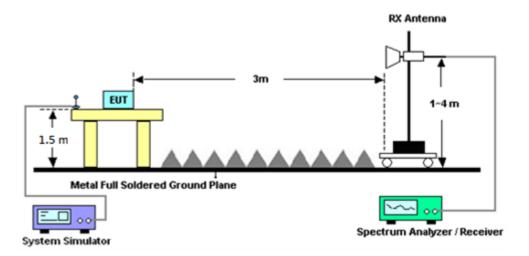
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For radiated test above 1GHz



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4.1.2 Test Result of Radiated Test

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.

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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 + 10log(P)dB below the transmitter power P(Watts)

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5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station (Measure)	Anritsu	MT8821C	6262025341	N/A	Oct. 05, 2021	Nov. 12, 2021	Oct. 04, 2022	Conducted (TH03-HY)
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 25, 2021	Nov. 01, 2021~ Nov. 08, 2021	Oct. 24, 2022	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT- N0602	30MHz~1GHz	Oct. 09, 2021	Nov. 01, 2021~ Nov. 08, 2021	Oct. 08, 2022	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Nov. 01, 2021~ Nov. 08, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 12, 2020	Nov. 01, 2021~ Nov. 08, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Oct. 27, 2020	Nov. 01, 2021~ Nov. 08, 2021	Oct. 16, 2022	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Nov. 01, 2021~ Nov. 08, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Nov. 01, 2021~ Nov. 08, 2021	Oct. 14, 2022	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 04, 2020	Nov. 01, 2021~ Nov. 08, 2021	Dec. 03, 2021	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 01, 2021~ Nov. 08, 2021	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Nov. 01, 2021~ Nov. 08, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 01, 2021~ Nov. 08, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Nov. 01, 2021~ Nov. 08, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 11, 2021	Nov. 01, 2021~ Nov. 08, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	Nov. 01, 2021~ Nov. 08, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 11, 2021	Nov. 01, 2021~ Nov. 08, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 11, 2021	Nov. 01, 2021~ Nov. 08, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0ST	SN5	1.2GHz High Pass Filter	Jun. 30, 2021	Nov. 01, 2021~ Nov. 08, 2021	Jun. 29, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN3	3GHz High Pass Filter	Sep. 13, 2021	Nov. 01, 2021~ Nov. 08, 2021	Sep. 12, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 18, 2020	Nov. 01, 2021~ Nov. 08, 2021	Nov. 17, 2021	Radiation (03CH11-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.09 dB
Confidence of 95% (U = 2Uc(y))	0.00 dB

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

Measuring Uncertainty for a Level of	3 EC 4D
Confidence of 95% (U = 2Uc(y))	3.56 dB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

LTE Band 14 Maximum Average Power [dBm] (GT - LC = 1.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)		
10	1	0			23.35					
10	1	49	QPSK		23.09		22.90	0.1950		
10	50	0		-	22.11	-				
10	1	0	16-QAM		22.80		22.35	0.1718		
10	1	0	64-QAM		22.59		22.14	0.1637		
Limit ERP < 3W			Result			Pass				

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LTE Band 14 Maximum Average Power [dBm] (GT - LC = 1.7 dB)										
BW [MHz]	RB Size RB Offset Mod Lowest Middle Highest ERP (dBm) ERP (W)									
5	1	0	QPSK	23.21	23.32	23.14	22.87	0.1936		
5	1	0	16-QAM	22.62	22.79	22.55	22.34	0.1714		
5	1	0	64-QAM	21.64	22.48	21.98	22.03	0.1596		
Limit	Limit ERP < 3W				Result			Pass		

Appendix B. Test Results of Radiated Test

LTE Band 14

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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)	
	1576	-47.33	-42.15	-5.18	-58.13	-54.13	0.52	9.47	Н	
	2365	-39.75	-13	-26.75	-55.12	-47.66	0.63	10.69	Н	
	3153	-58.51	-13	-45.51	-76.06	-67.18	0.74	11.56	Н	
									Н	
									Н	
Lowest									Н	
Lowest	1576	-50.10	-42.15	-7.95	-61.02	-56.90	0.52	9.47	V	
	2365	-40.88	-13	-27.88	-56.45	-48.79	0.63	10.69	V	
	3153	-58.35	-13	-45.35	-76.22	-67.02	0.74	11.56	V	
									V	
									V	
									V	
	1581	-45.66	-42.15	-3.51	-56.44	-52.47	0.52	9.48	Н	
	2372	-35.73	-13	-22.73	-51.10	-43.65	0.63	10.70	Н	
	3163	-58.21	-13	-45.21	-75.78	-66.91	0.74	11.59	Н	
									Н	
									Н	
Middle									Н	
ivildale	1581	-47.75	-42.15	-5.60	-58.66	-54.56	0.52	9.48	V	
	2372	-39.76	-13	-26.76	-55.31	-47.68	0.63	10.70	V	
	3163	-58.09	-13	-45.09	-76.00	-66.79	0.74	11.59	V	
									V	
									V	
									V	

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	1586	-44.51	-42.15	-2.36	-55.27	-51.33	0.52	9.49	Н
	2380	-34.64	-13	-21.64	-50.01	-42.56	0.63	10.70	Н
	3173	-56.62	-13	-43.62	-74.19	-65.35	0.74	11.62	Н
									Н
									Н
									Н
Highest	1586	-47.60	-42.15	-5.45	-58.49	-54.42	0.52	9.49	V
	2380	-40.18	-13	-27.18	-55.70	-48.10	0.63	10.70	V
	3173	-57.29	-13	-44.29	-75.23	-66.02	0.74	11.62	V
									V
									V
									V

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

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	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)		
	1577	-47.27	-42.15	-5.12	-58.07	-54.07	0.52	9.47	Н		
	2365	-38.29	-13	-25.29	-53.66	-46.20	0.63	10.69	Н		
	3154	-58.69	-13	-45.69	-76.75	-67.36	0.74	11.56	Н		
									Н		
									Н		
N 4: -I -II -									Н		
Middle	1577	-50.74	-42.15	-8.59	-61.66	-57.54	0.52	9.47	V		
	2365	-41.66	-13	-28.66	-57.22	-49.57	0.63	10.69	V		
	3154	-58.42	-13	-45.42	-76.29	-67.09	0.74	11.56	V		
									V		
									V		
									V		

Report No. : FG1O2144D

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

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