



FCC RADIO TEST REPORT

FCC ID	:	2AJN7-TP00130CU
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, and 90(S)

Equipment: Fibocom FM350-GL tested inside of Lenovo Notebook Computer.

The product was received on Oct. 22, 2021 and testing was performed from Dec. 03, 2021 to Feb. 15, 2022. 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.

Louis Wu

Approved by: Louis Wu Sporton International Inc. Wensan Laboratory

Page Number	: 1 of 16
Issued Date	: Feb. 22, 2022
Report Version	: 01



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History of this test report

Version	Description	Issued Date
01	Initial issue of report	Feb. 22, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark	
3.2	§2.1046	Conducted Output Power	Pass	_	
3.2	§90.635	and Effective Radiated Power	r ass	-	
-	-	Peak-to-Average Ratio	-	See Note	
-	§2.1049	Occupied Bandwidth and 26dB Bandwidth	_	See Note	
_	§90.209		-		
_	§2.1051	Emission masks –	_	See Note	
-	§90.691	In-band emissions	-	See Note	
_	§2.1051	Emission masks –		See Note	
-	§90.691	Out of band emissions	-	See Note	
_	§2.1055	Frequency Stability for		See Note	
_	§90.213	Temperature & Voltage	-	See Note	
	§2.1053			Under limit	
3.3	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	16.06 dB at	
	390.091			1633.000 MHz	

Note:

1. The certified module (model: FM350-GL) which supports normal mode and TX switching mode being integrated into a notebook computer. Spot check on both modes were performed and no degradation occur. Thus the module test results were leveraged in this report and additionally reporting the spot check results in this report.

 In normal mode, 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, and verified the TX switching mode of Radiated Spurious Emission and Conducted power.

Declaration of Conformity:

- 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 this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

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
Model Name	TP00130C; TP00130D
FCC ID	2AJN7-TP00130CU
Sample 1	EUT with Amphenol Antenna
Sample 2	EUT with Speed Antenna
	WCDMA/HSPA/LTE/5G NR/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

Remark:

1. The above EUT's information was declared by manufacturer.

2. Equipment: Fibocom FM350-GL tested inside of Lenovo Notebook Computer.

	Normal mode	TX switching mode			
	TX/RX	TX/RX			
	WCDMA : 2/4/5	WCDMA : 5			
Ant_0 (Main)	LTE : 2/4/5/7/12/13/14/17/25/26/30/38/66/71	LTE : 5/12/13/14/17/26/41/48/71			
	NR : 2/5/7/25/30/38/66/71	NR : 5/41/71/77/78			
		WCDMA : 2/4			
Ant_2 (MIMO2)	LTE : 41/48 NR : 41/77/78	LTE : 2/4/7/25/30/38/66			
	NR . 41/1/1/0	NR : 2/7/25/30/38/66			

WWAN Antenna Information								
	Manufacturer	Amphenol	Peak gain(dBi)	LTE Band 26 : 1.8				
Main Antenna	Part number	DC33001VG40	Туре	PIFA				
	Manufacturer	Speed	Peak gain(dBi)	LTE Band 26 : 1.8				
	Part number	DC33001VH40	Туре	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 814.7 ~ 823.3 MHz						
Rx Frequency	859.7 ~ 868.3 MHz					
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz					
Maximum Output Power to Antenna	23.69 dBm					
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM					

1.3 Modification of EUT

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

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.	Sporton Site No.		
Test She No.	TH03-HY (TAF Code: 1190)		
Test Engineer	Haoen Zhang		
Temperature (°C)	22.1~23.4		
Relative Humidity (%) 51.8~55.6			
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	Sporton Site No.		
Test Site No.	03CH13-HY		
Test Engineer	Yuan Lee, Jacky Hong, and Peter Liao		
Temperature (°C)	21~25		
Relative Humidity (%)	48~58		

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:

- 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 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

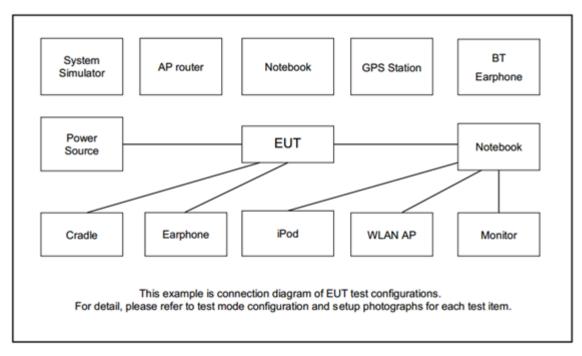
2.1 Test Mode

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

Conducted	lucted		Bandwidth (MHz)					Modulation				RB #			Test Channel		
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	Ц	М	Н
Max. Output Power	26	v	v	v	v	v	-	v	v	v		v	v	v	v	v	v
E.R.P.	26	v	v	v	v	v	-	v	v	v				Max.	ax. Power		
Radiated																	
Spurious	26			v	v	v	-	v				V			v	v	v
Emission																	
Remark	 The mark "v " means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. For modulation of 256QAM, the maximum power of 256QAM is lower than other modulation (QPSK/16QAM/64QAM), therefore, according to engineering evaluation, we choose higher power (QPSK/16QAM/64QAM) to perform all tests and show in the report. All the radiated test cases were performed with Battery1 and Sample 1. 									ERP							

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

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

ltem	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Earphone	SONY	MH750	N/A	Unshielded, 1.2 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 Ch	annel and Frequen	cy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26765	-	-
15	Frequency	821.5	-	-
10	Channel	-	26740	-
10	Frequency	-	819	-
5	Channel	26715	26740	26765
5	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
3	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
1.4	Frequency	814.7	819	823.3



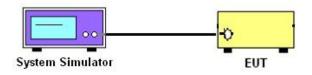
3 Conducted Test Items

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 conducted 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 $43+10\log_{10}(P[Watts])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

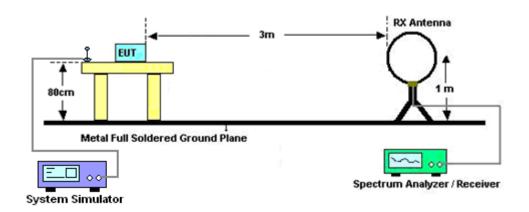
3.3.2 Test Procedures

- 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. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (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 + 10log(P) dB below the transmitter power P(Watts)

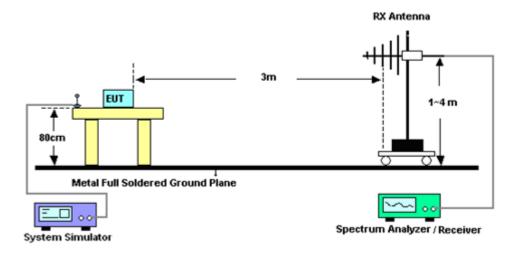


3.3.3 Test Setup

For radiated test below 30MHz

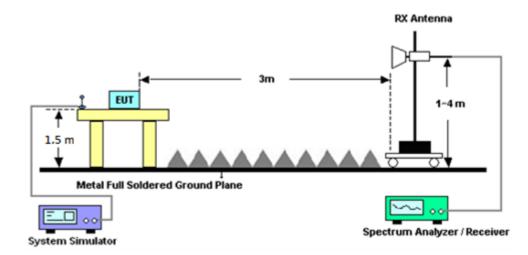


For radiated test from 30MHz to 1GHz





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.



List of Measuring Equipment 4

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Sep. 07, 2021	Dec. 03, 2021~ Jan. 14, 2022	Sep. 06, 2022	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1 D01N-06	40103 & 07	30MHz~1GHz	Apr. 28, 2021	Dec. 03, 2021~ Jan. 14, 2022	Apr. 27, 2022	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1 D01N-06	41912 & 05	30MHz~1GHz	Feb. 08, 2021	Dec. 03, 2021~ Jan. 14, 2022	Feb. 07, 2022	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 05, 2021	Dec. 03, 2021~ Jan. 14, 2022	Jul. 04, 2022	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Dec. 03, 2021~ Jan. 14, 2022	May 17, 2022	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 13, 2021	Dec. 03, 2021~ Jan. 14, 2022	Jul. 12, 2022	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-001018 00-30-10P	1590074	1GHz~18GHz	May 18, 2021	Dec. 03, 2021~ Jan. 14, 2022	May 17, 2022	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY5327014 7	1GHz~26.5GHz	Oct. 26, 2021	Dec. 03, 2021~ Jan. 14, 2022	Oct. 25, 2022	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY5537052 6	10Hz~44GHz	Mar. 18, 2021	Dec. 03, 2021~ Jan. 14, 2022	Mar. 17, 2022	Radiation (03CH13-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Dec. 03, 2021~ Jan. 14, 2022	Jan. 30, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-1080-1 200-15000-60SS	SN3	1.2GHz High Pass Filter	Jul. 01, 2021	Dec. 03, 2021~ Jan. 14, 2022	Jun. 30, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700-3 000-18000-60SS	SN2	3GHz High Pass Filter	Jul. 12, 2021	Dec. 03, 2021~ Jan. 14, 2022	Jul. 11, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4P E	9kHz~30MHz	Mar. 11, 2021	Dec. 03, 2021~ Jan. 14, 2022	Mar. 10, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 10, 2021	Dec. 03, 2021~ Jan. 14, 2022	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 10, 2021	Dec. 03, 2021~ Jan. 14, 2022	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 10, 2021	Dec. 03, 2021~ Jan. 14, 2022	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Dec. 03, 2021~ Jan. 14, 2022	Feb. 21, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 11, 2021	Dec. 03, 2021~ Jan. 14, 2022	Mar. 10, 2022	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303B	TP161243	N/A	Sep. 02, 2021	Dec. 03, 2021~ Jan. 14, 2022	Sep. 01, 2022	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Dec. 03, 2021~ Jan. 14, 2022	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Dec. 03, 2021~ Jan. 14, 2022	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Dec. 03, 2021~ Jan. 14, 2022	.N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Dec. 03, 2021~ Jan. 14, 2022	N/A	Radiation (03CH13-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6201664755	2/3/4G/LTE FDD/TDD with44)/LTE-3C C DLCA/2CC ULCA, CatM1/NB1/NB 2	Jul. 21, 2021	Feb. 09, 2022~ Feb. 15, 2022	Jul. 20, 2022	Conducted (TH03-HY)

: Feb. 22, 2022



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.45 dB
Confidence of 95% (U = 2Uc(y))	5.45 UB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.73 dB

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

	LTE	Band 26 M	laximum A	verage Po	wer [dBm]	(GT - LC :	= 1.8 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0		23.49	-	-		
15	1	37		23.40	-	-		
15	1	74		23.52	-	-		
15	36	0	QPSK	22.45	-	-	23.17	0.2075
15	36	20		22.57	-	-		
15	36	39		22.49	-	-		
15	75	0		22.54	-	-		
15	1	0	16-QAM	22.37	-	-	22.47	0.1766
15	1	0	64-QAM	21.77	-	-	21.44	0.1393
Limit	Outp	ut Power <	100W		Result		Pa	ISS

	LTE	Band 26 M	laximum A	verage Po	wer [dBm]] (GT - LC :	= 1.8 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0		-	23.39	-		
10	1	25		-	23.54	-		
10	1	49		-	23.55	-		
10	25	0	QPSK	-	22.54	-	23.2	0.2089
10	25	12		-	22.52	-		
10	25	25		-	22.50	-		
10	50	0		-	22.57	-		
10	1	0	16-QAM	-	22.79	-	22.44	0.1754
10	1	0	64-QAM	-	21.62	-	21.47	0.1403
Limit	Outp	ut Power <	100W		Result		Pa	ISS

	LTE	Band 26 M	laximum A	verage Po	wer [dBm]	(GT - LC :	= 1.8 dB)		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)	
5	1	0	QPSK	23.60	23.64	23.50			
5	1	12		23.55	23.47	23.67	23.34		
5	1	24		23.60	23.49	23.69		0.2158	
5	12	0		22.50	22.56	22.60			
5	12	7		22.52	22.58	22.60			
5	12	13		22.56	22.45	22.48			
5	25	0		22.55	22.53	22.54			
5	1	0	16-QAM	22.94	22.86	23.08	22.76	0.1888	
5	1	0	64-QAM	21.78	21.36	21.50	21.6	0.1445	
Limit	Outp	ut Power <	100W	Result			Pass		



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	LTE	Band 26 M	laximum A	verage Po	wer [dBm]] (GT - LC :	= 1.8 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0		23.53	23.54	23.48		
3	1	8		23.47	23.49	23.63	23.28	0.2128
3	1	14		23.49	23.45	23.56		
3	8	0	QPSK	22.46	22.54	22.56		
3	8	4		22.50	22.54	22.59		
3	8	7		22.47	22.50	22.52		
3	15	0		22.55	22.51	22.59		
3	1	0	16-QAM	22.53	22.72	23.13	22.78	0.1897
3	1	0	64-QAM	21.61	21.98	21.56	21.63	0.1455
Limit	Outp	ut Power <	100W		Result		Pa	ISS

	LTE	Band 26 M	laximum A	verage Po	wer [dBm]] (GT - LC :	= 1.8 dB)		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)	
1.4	1	0		23.37	23.43	23.47			
1.4	1	3		23.34	23.33	23.60			
1.4	1	5		23.37	23.42	23.49			
1.4	3	0	QPSK	23.39	23.41	23.39	23.25	0.2113	
1.4	3	1		23.28	23.37	23.52			
1.4	3	3		23.33	23.34	23.58			
1.4	6	0		22.37	22.32	22.48			
1.4	1	0	16-QAM	22.54	22.85	22.35	22.62	0.1828	
1.4	1	0	64-QAM	21.67	21.64	21.42	21.34	0.1361	
Limit	Outp	ut Power <	100W		Result		Pass		



Appendix B. Test Results of Radiated Test

			L	TE Band 26	/ 5MHz / QP	SK			
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)
	1628	-29.77	-13	-16.77	-42.74	-35.09	1.22	8.69	Н
	2443	-34.20	-13	-21.20	-51.24	-41.07	1.43	10.45	Н
	3257	-46.80	-13	-33.80	-65.78	-54.65	1.67	11.67	Н
	4072	-51.32	-13	-38.32	-71.97	-59.16	2.11	12.10	Н
									н
Lowoot									Н
Lowest	1628	-31.97	-13	-18.97	-44.8	-37.29	1.22	8.69	V
	2443	-33.38	-13	-20.38	-50.81	-40.25	1.43	10.45	V
	3257	-47.57	-13	-34.57	-66.84	-55.42	1.67	11.67	V
	4072	-48.85	-13	-35.85	-70.02	-56.69	2.11	12.10	V
									V
									V
	1633	-29.06	-13	-16.06	-42.06	-34.39	1.22	8.71	Н
	2450	-34.48	-13	-21.48	-51.5	-41.36	1.43	10.46	Н
	3267	-46.26	-13	-33.26	-65.19	-54.13	1.68	11.70	Н
	4084	-49.90	-13	-36.90	-70.55	-57.75	2.10	12.10	Н
									Н
Mi al all a									Н
Middle	1633	-31.59	-13	-18.59	-44.44	-36.92	1.22	8.71	V
	2450	-34.56	-13	-21.56	-51.95	-41.44	1.43	10.46	V
	3267	-45.65	-13	-32.65	-64.9	-53.52	1.68	11.70	V
	4084	-49.16	-13	-36.16	-70.34	-57.01	2.10	12.10	V
									V
									V

LTE Band 26



			L	TE Band 26	/ 5MHz / QP	SK			
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)
	1638	-31.83	-13	-18.83	-44.84	-37.18	1.22	8.72	Н
	2458	-34.88	-13	-21.88	-51.87	-41.76	1.43	10.47	Н
	3277	-48.75	-13	-35.75	-67.61	-56.64	1.69	11.73	Н
	4096	-51.07	-13	-38.07	-71.7	-58.92	2.10	12.10	Н
									Н
Llinkest									Н
Highest	1638	-29.57	-13	-16.57	-42.44	-34.92	1.22	8.72	V
	2458	-35.05	-13	-22.05	-52.38	-41.93	1.43	10.47	V
	3277	-47.62	-13	-34.62	-66.38	-55.51	1.69	11.73	V
	4096	-49.50	-13	-36.50	-70.68	-57.35	2.10	12.10	V
									V
									V

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



			Ľ	TE Band 26	/ 10MHz / QF	PSK			
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)
	1638	-29.74	-13	-16.74	-42.75	-35.09	1.22	8.72	Н
	2457	-34.82	-13	-21.82	-51.81	-41.70	1.43	10.47	Н
	3276	-47.47	-13	-34.47	-66.34	-55.36	1.69	11.73	Н
	4095	-51.89	-13	-38.89	-72.52	-59.74	2.10	12.10	Н
									Н
NA: al all a									Н
Middle	1638	-31.92	-13	-18.92	-44.79	-37.27	1.22	8.72	V
	2457	-35.44	-13	-22.44	-52.78	-42.32	1.43	10.47	V
	3276	-46.75	-13	-33.75	-65.96	-54.64	1.69	11.73	V
	4095	-50.77	-13	-37.77	-71.95	-58.62	2.10	12.10	V
									V
									V

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

LTE Band 26 / 15MHz / 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	1656	-31.27	-13	-18.27	-44.33	-36.68	1.23	8.79	Н
	2484	-35.29	-13	-22.29	-52.2	-42.19	1.44	10.49	Н
	3312	-49.52	-13	-36.52	-68.17	-57.49	1.72	11.84	Н
	4140	-52.46	-13	-39.46	-73.01	-60.32	2.09	12.10	Н
									Н
									Н
	1656	-31.68	-13	-18.68	-44.61	-37.09	1.23	8.79	V
	2484	-35.70	-13	-22.70	-52.85	-42.60	1.44	10.49	V
	3312	-49.23	-13	-36.23	-68.32	-57.20	1.72	11.84	V
	4140	-51.59	-13	-38.59	-72.74	-59.45	2.09	12.10	V
									V
									V

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