



FCC RADIO TEST REPORT

FCC ID : B94HNI29CPK
Equipment : Notebook Computer
Brand Name : HP
Model Name : HSN-I29C
Applicant : HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Standard : FCC 47 CFR Part 2, and 90(S)

The product was received on Mar. 20, 2019 and testing was started from Mar. 28, 2019 and completed on Apr. 16, 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 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.

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG912412-01C	01	Initial issue of report	Apr. 25, 2019



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	-
3.3	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	Under limit 44.71 dB at 3276.000 MHz

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: Yimin Ho



1 General Description

1.1 Feature of Equipment Under Test

WCDMA/LTE

Product Specification subjective to this standard	
Integrated WWAN Module	Brand Name: Fibocom Model Name: L860-GL
Antenna Type	WWAN: <Ant 1.>: PIFA Antenna <Ant 2.>: PIFA Antenna

1.2 Modification of EUT

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

1.3 Testing Site

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH05-HY
Test Engineer	George Chen
Temperature	24~25°C
Relative Humidity	50~52%

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH15-HY
Test Engineer	Watt Tseng, Karl Hou, and BigShow Wang
Temperature	23~24°C
Relative Humidity	55~56%

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

FCC Designation No. TW1190 and TW0007



1.4 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
- ♦ Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

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

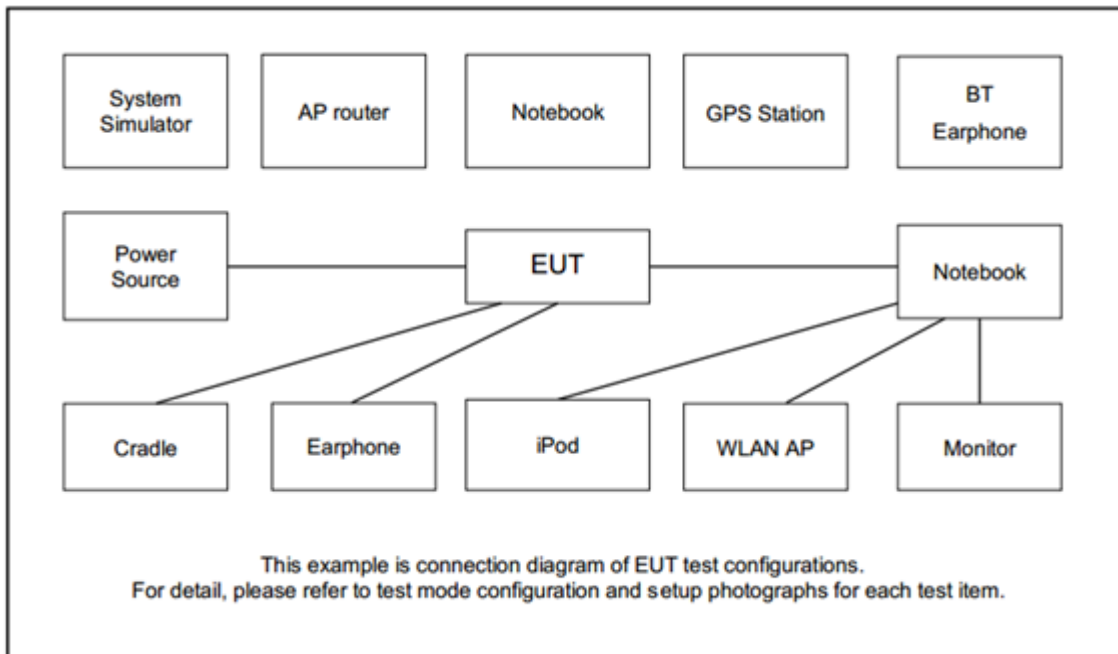
During all testing, EUT is in link mode with base station emulator at maximum power level.

For radiated measurement, pre-scanned in Notebook type and three orthogonal panels, X, Y, Z. The worst cases (Notebook type) were recorded in this report.

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	v	v	v
E.R.P.	26					v	-	v	v	v	v			v	v	v
Radiated Spurious Emission	26	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. 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.															

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 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

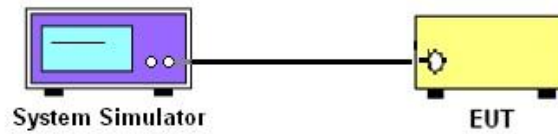
3 Conducted Test Items

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 ERP of mobile transmitters must not exceed 7 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.

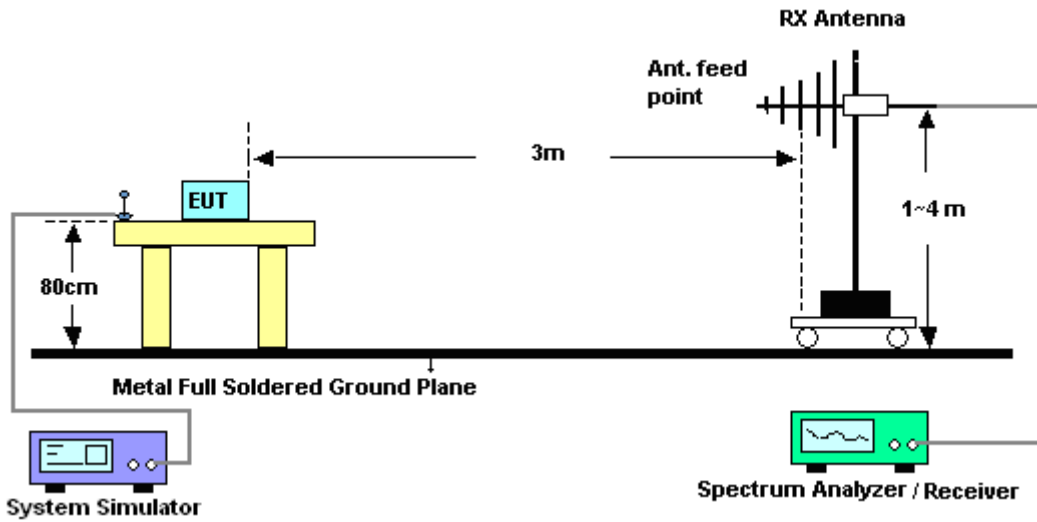
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43+10\log_{10}(P[\text{Watts}])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.3.2 Test Procedures

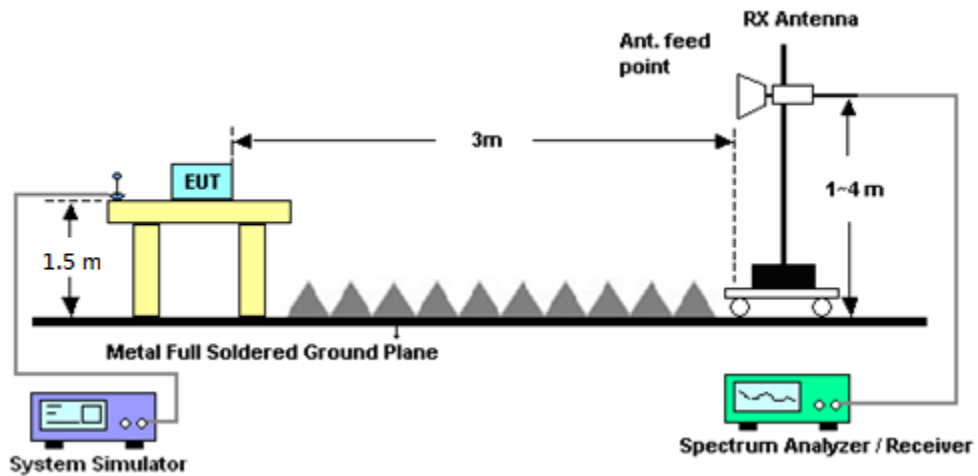
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
1. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
2. The table was rotated 360 degrees to determine the position of the highest spurious emission.
3. 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.
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
5. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
6. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
7. Taking the record of output power at antenna port.
8. Repeat step 7 to step 8 for another polarization.
9. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
10. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
12. 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 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.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Apr. 13, 2019~ Apr. 16, 2019	Dec. 05, 2019	Radiation (03CH15-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Apr. 13, 2019~ Apr. 16, 2019	Jan. 06, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz ~ 40GHz	May 08, 2018	Apr. 13, 2019~ Apr. 16, 2019	May 07, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2018	Apr. 13, 2019~ Apr. 16, 2019	Dec. 27, 2019	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N- 06	41912&05	30MHz to 1GHz	Feb. 12, 2019	Apr. 13, 2019~ Apr. 16, 2019	Feb. 11, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-162 0	1G~18GHz	Oct. 17, 2018	Apr. 13, 2019~ Apr. 16, 2019	Oct. 16, 2019	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 23, 2018	Apr. 13, 2019~ Apr. 16, 2019	Aug. 22, 2019	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 00550006	1GHz~18GHz	Jul. 10, 2018	Apr. 13, 2019~ Apr. 16, 2019	Jul. 09, 2019	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY501801 36	3Hz~44GHz	Apr. 25, 2018	Apr. 13, 2019~ Apr. 16, 2019	Apr. 24, 2019	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 13, 2019~ Apr. 16, 2019	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 13, 2019~ Apr. 16, 2019	N/A	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 251	18GHz- 40GHz	Nov. 20, 2018	Apr. 13, 2019~ Apr. 16, 2019	Nov. 19, 2019	Radiation (03CH15-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 22, 2018	Apr. 13, 2019~ Apr. 16, 2019	May 21, 2019	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-152 2	1G~18GHz	Sep. 07, 2018	Apr. 13, 2019~ Apr. 16, 2019	Sep. 06, 2019	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24	RK-00045 1	N/A	N/A	Apr. 13, 2019~ Apr. 16, 2019	N/A	Radiation (03CH15-HY)
Base Station	Anritsu	MT8820C	620110750 9	-	Mar. 02, 2018	Mar. 28, 2019	Mar. 01, 2020	Conducted (TH05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.37
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.67
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.03
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.64	-	-
15	1	37		23.62	-	-
15	1	74		23.79	-	-
15	36	0		22.62	-	-
15	36	20		22.60	-	-
15	36	39		22.66	-	-
15	75	0		22.63	-	-
15	1	0	16-QAM	22.91	-	-
15	1	37		22.93	-	-
15	1	74		23.04	-	-
15	36	0		21.72	-	-
15	36	20		21.65	-	-
15	36	39		21.71	-	-
15	75	0		21.65	-	-
15	1	0	64-QAM	21.93	-	-
15	1	37		21.87	-	-
15	1	74		22.07	-	-
15	36	0		20.69	-	-
15	36	20		20.67	-	-
15	36	39		20.70	-	-
15	75	0		20.64	-	-
10	1	0	QPSK	-	23.82	-
10	1	25		-	23.89	-
10	1	49		-	24.06	-
10	25	0		-	22.81	-
10	25	12		-	22.87	-
10	25	25		-	22.93	-
10	50	0		-	22.88	-
10	1	0	16-QAM	-	23.11	-
10	1	25		-	23.17	-
10	1	49		-	23.36	-
10	25	0		-	21.90	-
10	25	12		-	22.00	-
10	25	25		-	22.04	-
10	50	0		-	21.94	-
10	1	0	64-QAM	-	22.08	-
10	1	25		-	22.17	-
10	1	49		-	22.27	-
10	25	0		-	20.91	-
10	25	12		-	21.00	-
10	25	25		-	21.02	-
10	50	0		-	20.96	-



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.56	23.79	24.48
5	1	12		23.61	23.83	24.59
5	1	24		23.57	23.95	24.54
5	12	0		22.62	22.92	23.73
5	12	7		22.68	22.95	23.69
5	12	13		22.68	23.01	23.71
5	25	0		22.68	22.92	23.71
5	1	0	16-QAM	22.93	23.10	23.74
5	1	12		22.95	23.02	23.79
5	1	24		22.87	23.10	23.77
5	12	0		21.72	22.05	22.81
5	12	7		21.77	22.05	22.73
5	12	13		21.77	22.13	22.83
5	25	0		21.74	22.04	22.78
5	1	0	64-QAM	21.84	21.95	22.70
5	1	12		21.73	22.13	22.74
5	1	24		21.81	22.21	22.83
5	12	0		20.75	21.05	21.78
5	12	7		20.75	21.07	21.76
5	12	13		20.75	21.12	21.77
5	25	0		20.76	21.05	21.76
3	1	0	QPSK	23.30	23.58	24.38
3	1	8		23.28	23.65	24.46
3	1	14		23.33	23.70	24.32
3	8	0		22.35	22.68	23.45
3	8	4		22.34	22.72	23.45
3	8	7		22.41	22.72	23.44
3	15	0		22.34	22.71	23.46
3	1	0	16-QAM	22.58	22.92	23.57
3	1	8		22.52	22.87	23.63
3	1	14		22.64	23.03	23.43
3	8	0		21.39	21.77	22.45
3	8	4		21.35	21.77	22.51
3	8	7		21.45	21.75	22.45
3	15	0		21.32	21.75	22.44
3	1	0	64-QAM	21.50	21.93	22.52
3	1	8		21.57	21.97	22.62
3	1	14		21.52	21.97	22.53
3	8	0		20.32	20.74	21.45
3	8	4		20.37	20.77	21.49
3	8	7		20.41	20.80	21.47
3	15	0		20.29	20.73	21.48



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.42	23.74	24.50
1.4	1	3		23.37	23.69	24.42
1.4	1	5		23.39	23.75	24.34
1.4	3	0		23.37	23.73	24.39
1.4	3	1		23.36	23.72	24.39
1.4	3	3		23.36	23.71	24.37
1.4	6	0		22.39	22.73	23.46
1.4	1	0	16-QAM	22.69	23.04	23.66
1.4	1	3		22.70	23.01	23.58
1.4	1	5		22.68	23.00	23.57
1.4	3	0		22.44	22.79	23.47
1.4	3	1		22.43	22.85	23.43
1.4	3	3		22.50	22.77	23.37
1.4	6	0		21.43	21.78	22.43
1.4	1	0	64-QAM	21.59	21.97	22.71
1.4	1	3		21.50	21.89	22.58
1.4	1	5		21.60	21.98	22.57
1.4	3	0		21.55	21.87	22.55
1.4	3	1		21.39	21.85	22.52
1.4	3	3		21.50	21.90	22.50
1.4	6	0		20.39	20.81	21.40



Appendix B. Test Results of ERP and Radiated Test

ERP

<Reporting Only>

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -3.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	74	23.79	0.24	17.93	0.06
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	74	23.04	0.20	17.18	0.05
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	74	22.07	0.16	16.21	0.04
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 7W			Result		PASS	



Radiated Spurious Emission

LTE Band 26

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	-63.68	-13	-50.68	-74.71	-69.47	0.68	8.63	H
	2449	-59.68	-13	-46.68	-75.65	-67.31	0.94	10.73	H
	3266	-57.80	-13	-44.80	-76.04	-66.24	1.19	11.79	H
									H
									H
									H
	1632	-63.60	-13	-50.60	-74.49	-69.39	0.68	8.63	V
	2449	-59.69	-13	-46.69	-75.71	-67.32	0.94	10.73	V
	3266	-57.81	-13	-44.81	-76	-66.25	1.19	11.79	V
									V
									V
									V
Middle	1638	-63.54	-13	-50.54	-74.59	-69.35	0.69	8.65	H
	2457	-59.91	-13	-46.91	-75.87	-67.55	0.94	10.74	H
	3276	-57.71	-13	-44.71	-75.92	-66.17	1.20	11.81	H
									H
									H
									H
	1638	-63.93	-13	-50.93	-74.85	-69.74	0.69	8.65	V
	2457	-59.46	-13	-46.46	-75.45	-67.10	0.94	10.74	V
	3276	-57.85	-13	-44.85	-75.99	-66.31	1.20	11.81	V
									V
									V
									V



Highest	1643	-63.60	-13	-50.60	-74.67	-69.43	0.69	8.67	H
	2464	-59.72	-13	-46.72	-75.68	-67.37	0.95	10.75	H
	3286	-57.90	-13	-44.90	-76.09	-66.38	1.20	11.83	H
									H
									H
									H
									H
	1643	-63.80	-13	-50.80	-74.74	-69.63	0.69	8.67	V
	2464	-59.83	-13	-46.83	-75.8	-67.48	0.95	10.75	V
	3286	-58.14	-13	-45.14	-76.19	-66.62	1.20	11.83	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	1648	-63.51	-13	-50.51	-74.6	-69.36	0.69	8.69	H
	2470	-60.03	-13	-47.03	-75.99	-67.69	0.95	10.76	H
	3294	-58.00	-13	-45.00	-76.16	-66.50	1.20	11.85	H
									H
									H
									H
									H
	1648	-63.74	-13	-50.74	-74.7	-69.59	0.69	8.69	V
	2470	-60.05	-13	-47.05	-76.02	-67.71	0.95	10.76	V
	3294	-58.23	-13	-45.23	-76.23	-66.73	1.20	11.85	V
									V
									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	-63.27	-13	-50.27	-74.42	-69.15	0.70	8.72	H
	2484	-59.70	-13	-46.70	-75.66	-67.38	0.95	10.78	H
	3313	-58.32	-13	-45.32	-76.43	-66.85	1.21	11.89	H
									H
									H
									H
									H
	1656	-63.53	-13	-50.53	-74.57	-69.41	0.70	8.72	V
	2484	-59.27	-13	-46.27	-75.21	-66.95	0.95	10.78	V
	3313	-58.44	-13	-45.44	-76.35	-66.97	1.21	11.89	V
									V
									V
									V
									V

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