



FCC RADIO TEST REPORT

FCC ID : A4RG025I
Equipment : Phone
Model Name : G025I, G025H
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2, Part 27(D)

The product was received on May 12, 2020 and testing was started from May 25, 2020 and completed on Jul. 01, 2020. 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 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 (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG022521-04D	01	Initial issue of report	Jul. 09, 2020
FG022521-04D	02	Revising the remark description in summary.	Jul. 23, 2020



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power and Effective Isotropic Radiated Power	Reporting only	-
-	-	Peak-to-Average Ratio	Not Required	-
-	§27.50 (a)(3)	EIRP Power Density	Not Required	-
-	§2.1049	Occupied Bandwidth	Not Required	-
-	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Not Required	-
-	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	Not Required	-
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Not Required	-
4.2	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	Pass	Under limit 7.04 dB at 4626.000 MHz for Primary Antenna Under limit 13.14 dB at 6930.000 MHz for ASDIV Antenna

Remark:

- Not required means after assessing, test items are not necessary to carry out.
- This is a variant report which can be referred Product Equality Declaration. After spot-checking the tests, the parent test results were worse than variant test results, thus this test report was reuse parent test data, all the test cases were performed on original report which can be referred to Sporton Report Number FG022521-02D.

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: Ruby Zou



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	G025I, G025H
FCC ID	A4RG025I
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
04271FQCB00019	Conducted Measurement EIRP
04241FQCB00352	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	2307.5 MHz ~ 2312.5 MHz
Rx Frequency	2352.5 MHz ~ 2357.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	<Primary Antenna>: 22.18 dBm <ASDIV Antenna>: 22.60 dBm
Antenna Type	<Primary Antenna>: Monopole Antenna type <ASDIV Antenna>: PIFA Antenna type
Type of Modulation	QPSK / 16QAM / 64QAM

<Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B30	Ant 2	-1

<ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B30	Ant 0	-0.5



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, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH05-HY
Test Engineer	Luffy Lin
Temperature	22~24°C
Relative Humidity	51~55%

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
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. 03CH13-HY
Test Engineer	Daniel Lee, Jacky and Wilson Wu
Temperature	21.5~23.5°C
Relative Humidity	49.5~55.5%

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
- ♦ FCC 47 CFR Part 2, Part 27(D)
- ♦ ANSI / TIA-603-E
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

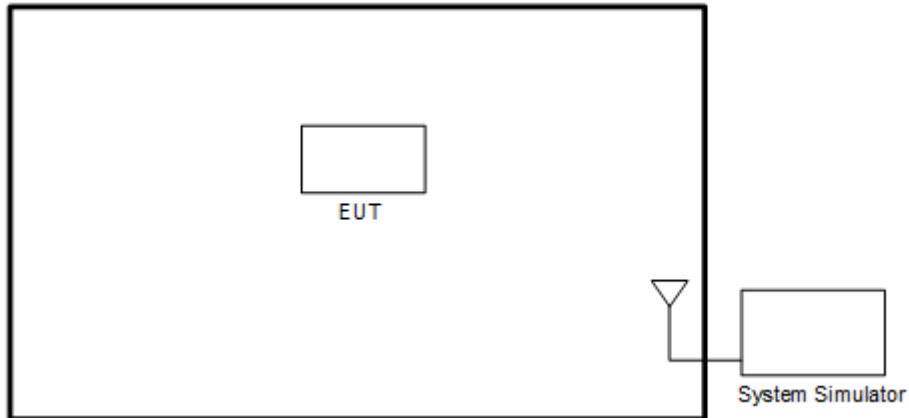
2.1 Test Mode

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.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Primary Antenna: Z Plane; ASDIV Antenna: Y Plane) were recorded in this report.

Test Items	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	30	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	30	Worst Case											v	v	v	
Remark	<ol style="list-style-type: none"> The mark "v " means that this configuration is chosen for testing 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. All the radiated test cases were performed with Adapter 1 and USB Cable 1. 															

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	MT8821C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

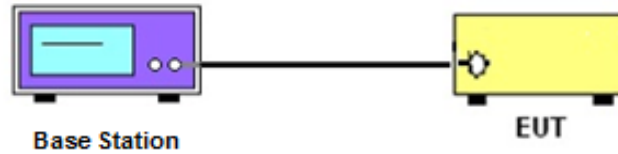
3 Conducted Test Items

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 EIRP Measurement

3.2.1 Description of the Conducted Output Power Measurement and EIRP 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.

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 the 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.

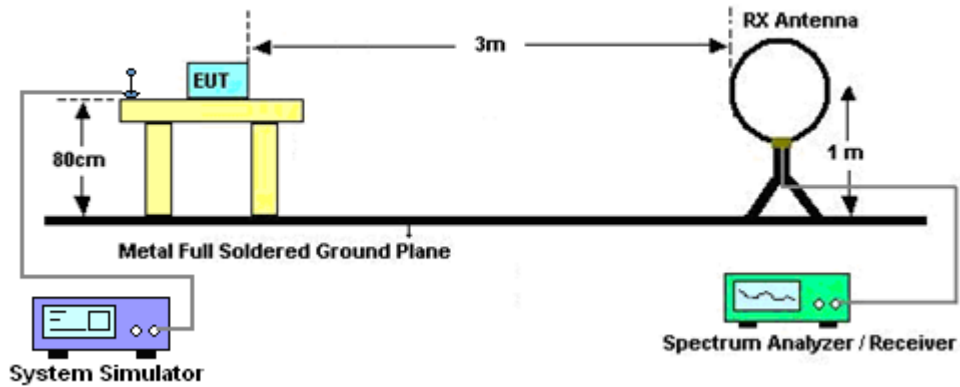
4 Radiated Test Items

4.1 Measuring Instruments

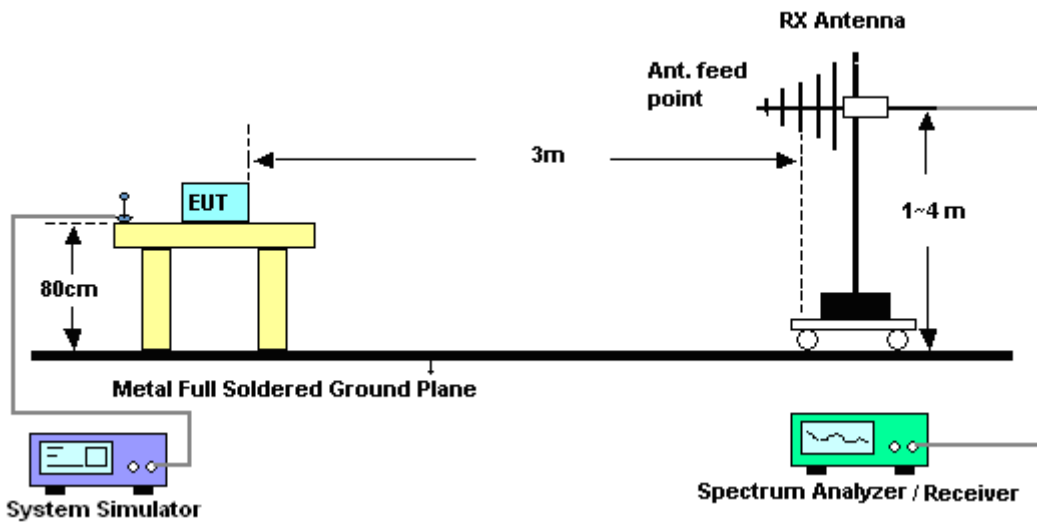
See list of measuring instruments of this test report.

4.1.1 Test Setup

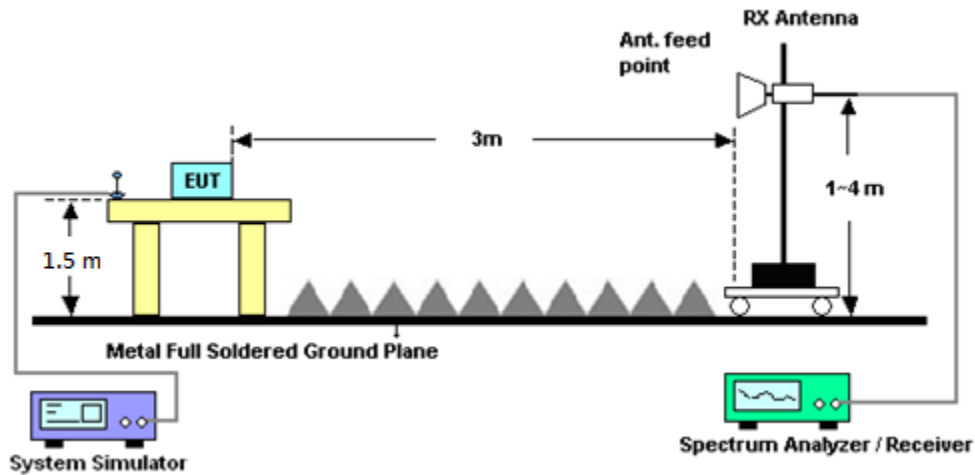
For radiated emissions below 30MHz



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.

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 a comparison data 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.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

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 $70 + 10 \log (P)$ dB.
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 height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, 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.

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$

1. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [70 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$$

$$= -40\text{dBm.}$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 17, 2019	Jun. 17, 2020~Jun. 23, 2020	Dec. 16, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N 1D01N-06	40103&07	30MHz to 1GHz	Apr. 29, 2020	Jun. 17, 2020~Jun. 23, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N 1D01N-06	41912 & 07	30MHz to 1GHz	Apr. 29, 2020	Jun. 17, 2020~Jun. 23, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jul. 02, 2019	Jun. 17, 2020~Jun. 23, 2020	Jul. 01, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz ~ 18GHz	Sep. 19, 2019	Jun. 17, 2020~Jun. 23, 2020	Sep. 18, 2020	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101 800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Jun. 17, 2020~Jun. 23, 2020	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 28, 2019	Jun. 17, 2020~Jun. 23, 2020	Oct. 27, 2020	Radiation (03CH13-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	Jun. 17, 2020~Jun. 23, 2020	Aug. 26, 2020	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 20, 2020	Jun. 17, 2020~Jun. 23, 2020	Mar. 19, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 17, 2020~Jun. 23, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 17, 2020~Jun. 23, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 17, 2020~Jun. 23, 2020	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Jun. 17, 2020~Jun. 23, 2020	N/A	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Jun. 17, 2020~Jun. 23, 2020	Dec. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 12, 2020	Jun. 17, 2020~Jun. 23, 2020	Feb. 21, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 12, 2020	Jun. 17, 2020~Jun. 23, 2020	Feb. 21, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	Jun. 17, 2020~Jun. 23, 2020	Feb. 24, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 10, 2019	Jun. 17, 2020~Jun. 23, 2020	Dec. 09, 2020	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170980	18GHz~40GHz	Jan. 10, 2020	Jun. 17, 2020~Jun. 23, 2020	Jan. 09, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60 SS	SN2	3GHz High Pass Filter	Jul. 14, 2019	Jun. 17, 2020~Jun. 23, 2020	Jul. 13, 2020	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-1080-1200-15000-60 SS	SN3	1.2GHz High Pass Filter	Jul. 03, 2019	Jun. 17, 2020~Jun. 23, 2020	Jul. 02, 2020	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP190075	N/A	Apr. 23, 2020	Jun. 17, 2020~Jun. 23, 2020	Apr. 22, 2021	Radiation (03CH13-HY)
LTE Base Station	Anritsu	MT8821C	62620025341	-	Oct. 24, 2019	May 25, 2020~Jul. 01, 2020	Oct. 23, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	May 25, 2020~Jul. 01, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 02, 2019	May 25, 2020~Jul. 01, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 09, 2019	May 25, 2020~Jul. 01, 2020	Oct. 08, 2020	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 13, 2020	May 25, 2020~Jul. 01, 2020	Jan. 12, 2021	Conducted (TH05-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.21
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.24
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.99
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

<Primary Antenna>

LTE Band 30 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.18	
10	1	25			22.07	
10	1	49			22.09	
10	25	0			21.18	
10	25	12			21.14	
10	25	25			21.23	
10	50	0			21.14	
10	1	0	16-QAM	-	21.51	-
10	1	25			21.44	
10	1	49			21.52	
10	25	0			20.18	
10	25	12			20.25	
10	25	25			20.19	
10	50	0			20.23	
10	1	0	64-QAM		20.38	
10	1	25			20.42	
10	1	49			20.39	
10	25	0			19.24	
10	25	12			19.21	
10	25	25			19.22	
10	50	0			19.21	
5	1	0	QPSK	22.04	22.08	22.10
5	1	12		22.18	22.10	22.13
5	1	24		22.11	22.12	22.14
5	12	0		21.14	21.18	21.17
5	12	7		21.27	21.18	21.20
5	12	13		21.32	21.23	21.13
5	25	0		21.24	21.15	21.21
5	1	0	16-QAM	21.36	21.35	21.42
5	1	12		21.47	21.47	21.42
5	1	24		21.55	21.44	21.44
5	12	0		20.15	20.21	20.17
5	12	7		20.20	20.28	20.29
5	12	13		20.22	20.20	20.19
5	25	0		20.24	20.17	20.23
5	1	0	64-QAM	20.27	20.34	20.47
5	1	12		20.39	20.35	20.37
5	1	24		20.53	20.37	20.31
5	12	0		19.25	19.27	19.23
5	12	7		19.29	19.22	19.33
5	12	13		19.31	19.33	19.25
5	25	0		19.27	19.21	19.27



<ASDIV Antenna>

LTE Band 30 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.60	
10	1	25			22.58	
10	1	49			22.57	
10	25	0			21.40	
10	25	12			21.64	
10	25	25			21.51	
10	50	0			21.63	
10	1	0	16-QAM	-	21.91	-
10	1	25			21.92	
10	1	49			21.84	
10	25	0			20.46	
10	25	12			20.53	
10	25	25			20.45	
10	50	0			20.55	
10	1	0	64-QAM		20.69	
10	1	25			20.70	
10	1	49			20.62	
10	25	0			19.46	
10	25	12			19.61	
10	25	25			19.67	
10	50	0			19.60	
5	1	0	QPSK	22.40	22.33	22.46
5	1	12		22.50	22.59	22.53
5	1	24		22.58	22.42	22.56
5	12	0		21.52	21.63	21.49
5	12	7		21.56	21.57	21.60
5	12	13		21.55	21.61	21.44
5	25	0		21.68	21.45	21.51
5	1	0	16-QAM	21.71	21.78	21.72
5	1	12		21.80	21.73	21.86
5	1	24		22.01	21.70	21.78
5	12	0		20.58	20.56	20.55
5	12	7		20.71	20.64	20.67
5	12	13		20.59	20.54	20.63
5	25	0		20.66	20.60	20.51
5	1	0	64-QAM	20.71	20.69	20.64
5	1	12		20.68	20.73	20.64
5	1	24		20.85	20.83	20.70
5	12	0		19.54	19.68	19.68
5	12	7		19.70	19.57	19.60
5	12	13		19.73	19.65	19.69
5	25	0		19.73	19.68	19.62



Appendix B. Test Results of EIRP and Radiated Test

EIRP

<Primary Antenna>

LTE Band 30 / 5MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	22.18	0.1652	21.18	0.1312
Middle		1	12	22.10	0.1622	21.10	0.1288
Highest		1	12	22.13	0.1633	21.13	0.1297
Lowest	16QAM	1	24	21.55	0.1429	20.55	0.1135
Middle		1	24	21.44	0.1393	20.44	0.1107
Highest		1	24	21.44	0.1393	20.44	0.1107
Lowest	64QAM	1	24	20.53	0.1130	19.53	0.0897
Middle		1	24	20.37	0.1089	19.37	0.0865
Highest		1	24	20.31	0.1074	19.31	0.0853

LTE Band 30 / 10MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	22.18	0.1652	21.18	0.1312
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	49	21.52	0.1419	20.52	0.1127
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	20.42	0.1102	19.42	0.0875
Highest		-	-	-	-	-	-



<ASDIV Antenna>

LTE Band 30 / 5MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	22.50	0.1778	22.00	0.1585
Middle		1	12	22.59	0.1816	22.09	0.1618
Highest		1	12	22.53	0.1791	22.03	0.1596
Lowest	16QAM	1	24	22.01	0.1589	21.51	0.1416
Middle		1	24	21.70	0.1479	21.20	0.1318
Highest		1	24	21.78	0.1507	21.28	0.1343
Lowest	64QAM	1	24	20.85	0.1216	20.35	0.1084
Middle		1	24	20.83	0.1211	20.33	0.1079
Highest		1	24	20.70	0.1175	20.20	0.1047

LTE Band 30 / 10MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	22.60	0.1820	22.10	0.1622
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	21.92	0.1556	21.42	0.1387
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	20.70	0.1175	20.20	0.1047
Highest		-	-	-	-	-	-



Radiated Spurious Emission

<Primary Antenna>

<Ant. 2>

LTE Band 30

LTE Band 30 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (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	4626	-47.04	-40	-7.04	-38.1	-57.07	2.07	12.10	H
	6939	-55.12	-40	-15.12	-52.69	-63.68	2.40	10.96	H
	9252	-58.90	-40	-18.90	-61.25	-68.78	2.22	12.10	H
									H
									H
									H
									H
	4626	-50.46	-40	-10.46	-42.22	-60.49	2.07	12.10	V
	6939	-48.04	-40	-8.04	-46.23	-56.60	2.40	10.96	V
	9252	-59.11	-40	-19.11	-60.82	-68.99	2.22	12.10	V
									V
									V
									V
									V

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



<ASDIV Antenna>

<Ant. 0>

LTE Band 30

LTE Band 30 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (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	4620	-65.36	-40	-25.36	-56.39	-75.40	2.06	12.10	H
	6930	-53.14	-40	-13.14	-50.7	-61.71	2.40	10.97	H
	9234	-59.46	-40	-19.46	-61.8	-69.36	2.22	12.12	H
									H
									H
									H
									H
	4620	-63.05	-40	-23.05	-54.79	-73.09	2.06	12.10	V
	6930	-56.73	-40	-16.73	-54.91	-65.30	2.40	10.97	V
	9234	-59.88	-40	-19.88	-61.63	-69.78	2.22	12.12	V
									V
									V
									V
									V

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

—————THE END—————