

FCC Test Report

FCC ID : SQG-IGUPCAT1
Equipment : Sentrius IG60 Category-1 LTE Module
Model No. : IGUP-CAT1
Brand Name : Laird
Applicant : Laird Connectivity, Inc.
Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA
Standard : 47 CFR FCC Part 24 Subpart E
Received Date : Aug. 19, 2019
Tested Date : Sep. 24, 2019

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FG981901P24	Rev. 01	Initial issue	Nov. 01, 2019

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 22.913(a)(5)	Equivalent Isotropically Radiated Power	Power[dBm] : 32.35	Pass
2.1053 / 22.917(a)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 22.917(a)	Conducted Emissions	Note	Pass
2.1051 / 22.917(a)	Band Edge	Note	Pass
2.1049	Occupied Bandwidth	Note	Pass
-	Peak to Average Ratio	Note	Pass
2.1055 / 22.355	Frequency Stability	Note	Pass

Note: Refers to test report of FCC ID: QIPPLS62-W. Test report no.: I17D00184-SRD05 / I17D00184-SRD06

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.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating Frequency	GSM1900 WCDMA Band II LTE Band 2
Modulation	GPRS/EDGE: GMSK/8PSK WCDMA/HSDPA/HSUPA/HSPA+: BPSK LTE: QPSK/16QAM

1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	Remark
1	Dipole	SMA_MALE	2.2	--

1.1.3 EUT Operational Condition

Supply Voltage	Voltage Range: 4.75 VDC-5.25 VDC
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1.1.4 Operating Channel List

GPRS & EDGE		
	Channel	Frequency (MHz)
Low	512	1850.2
Middle	661	1880.0
High	810	1909.8

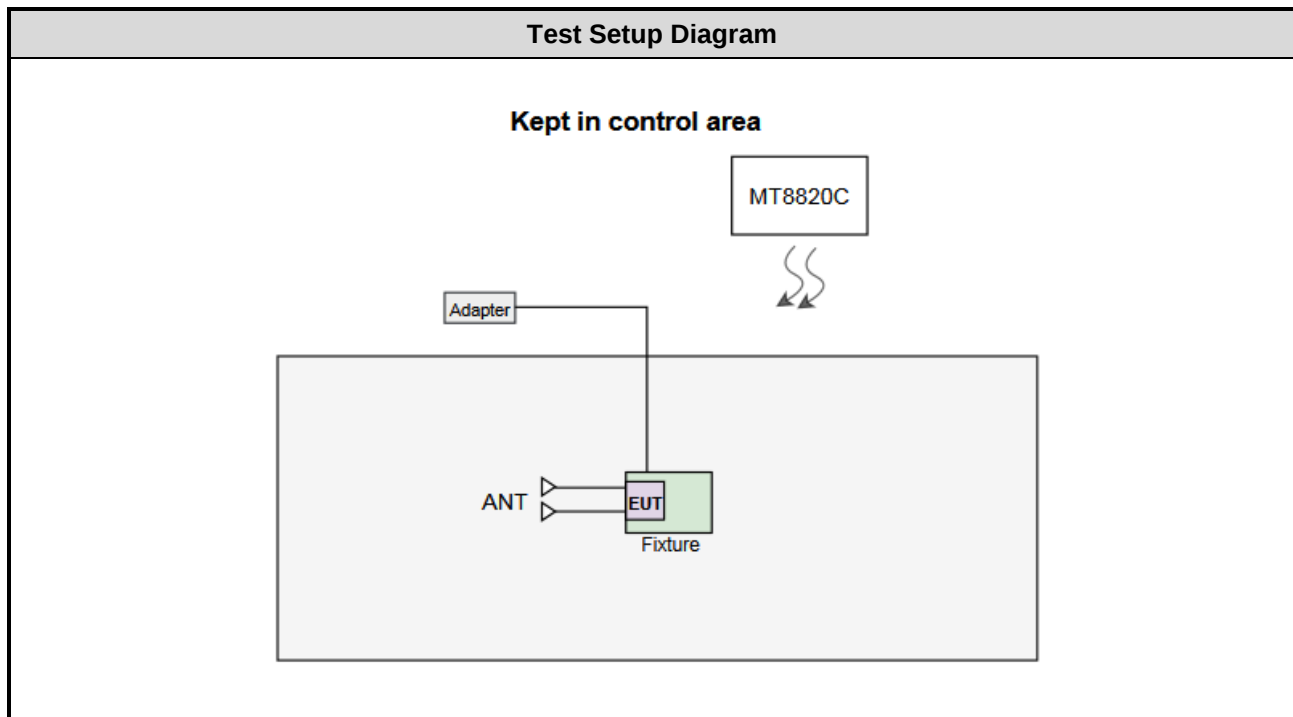
WCDMA II		
	Channel	Frequency (MHz)
Low	9262	1852.4
Middle	9400	1880.0
High	9538	1907.6

LTE Band 2		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
1.4	18607	1850.7
1.4	18900	1880.0
1.4	19193	1909.3
3	18615	1851.5
3	18900	1880.0
3	19185	1908.5
5	18625	1852.5
5	18900	1880.0
5	19175	1907.5
10	18650	1855.0
10	18900	1880.0
10	19150	1905.0
15	18675	1857.5
15	18900	1880.0
15	19125	1902.5
20	18700	1860.0
20	18900	1880.0
20	19100	1900.0

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	S/N	Remarks
1	Adapter	Samsung	ETA-U90JWA	---	---
2	Fixture	---	---	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 27, 2018	Dec. 26, 2019
Receiver	R&S	ESR3	101658	Dec. 11, 2018	Dec. 10, 2019
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 12, 2019	Jul. 11, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 18, 2018	Dec. 17, 2019
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2018	Nov. 14, 2019
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 09, 2018	Nov. 08, 2019
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 08, 2018	Oct. 07, 2019
Preamplifier	EMC	EMC02325	980225	Jul. 09, 2019	Jul. 08, 2020
Preamplifier	Agilent	83017A	MY39501308	Oct. 04, 2018	Oct. 03, 2019
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF Cable	EMC	EMC104-SM-SM-80 00	181106	Oct. 08, 2018	Oct. 07, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 08, 2018	Oct. 07, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 08, 2018	Oct. 07, 2019
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 08, 2018	Oct. 07, 2019
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 08, 2018	Oct. 07, 2019
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 08, 2018	Oct. 07, 2019
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 24 Subpart E

ANSI C63.4-2014

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Radiated emission $\leq$ 1GHz	± 3.41 dB
Radiated emission $>$ 1GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	22°C / 64-65%	Aska Huang

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

GPRS 1900 / WCDMA II		
Test item	Mode	Test channel
E.I.R.P	GPRS WCDMA	512, 661, 810 9262, 9400, 9538
Radiated Emission ≤ 1GHz	GPRS WCDMA	512 9262
Radiated Emission > 1GHz	GPRS WCDMA	512, 661, 810 9262, 9400, 9538

LTE Band 2			
Test item	Channel Bandwidth	Modulation	Test channel
E.I.R.P	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM	18607 / 18900 / 19193 18615 / 18900 / 19185 18625 / 18900 / 19175 18650 / 18900 / 19150 18675 / 18900 / 19125 18700 / 18900 / 19100
Radiated Emission ≤ 1GHz	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	QPSK QPSK QPSK QPSK QPSK QPSK	18900 18900 18900 18900 19125 18900
Radiated Emission > 1GHz	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	QPSK QPSK QPSK QPSK QPSK QPSK	18607 / 18900 / 19193 18615 / 18900 / 19185 18625 / 18900 / 19175 18650 / 18900 / 19150 18675 / 18900 / 19125 18700 / 18900 / 19100

3 Test Results

3.1 Equivalent Isotropically Radiated Power

3.1.1 Limit of Equivalent Isotropically Radiated Power

Mobile and portable stations are limited to 2 watts EIRP.

3.1.2 Test Procedures

For E.I.R.P measurement

EIPR can be calculated by below formula from KDB 412172 D01.

1. $EIRP = P_T + G_T - L_C$

P_T = transmitter output power, in dBm.

G_T = gain of the transmitting antenna, in dBi (EIRP).

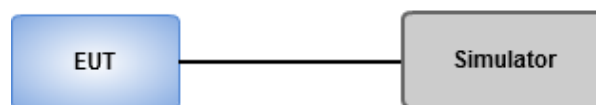
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For Conducted power measurement

1. The EUT links up with simulator and is set to maximum output power level at low / middel / high channel.
2. Measure the output power of low / middle / high channel of the EUT

3.1.3 Test Setup

Conducted Power Measurement



3.1.4 Test Result of Equivalent Isotropically Radiated Power (dBm)

Mode	GPRS 1900 (GMSK 1 Slot)					
Channel	Frequency (MHz)	Max Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
512	1850.2	30.15	2.2	32.35	1.718	2
661	1880.0	29.86	2.2	32.06	1.607	2
810	1909.8	29.79	2.2	31.99	1.581	2

Mode	EDGE 1900 (8PSK 1 Slot)					
Channel	Frequency (MHz)	Max Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
512	1850.2	25.47	2.2	27.67	0.585	2
661	1880.0	25.15	2.2	27.35	0.543	2
810	1909.8	25.06	2.2	27.26	0.532	2

Mode	WCDMA					
Channel	Frequency (MHz)	Max Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	ERP (W)	Limit (W)
9262	1852.4	22.30	2.2	24.50	0.282	2
9400	1880.0	22.29	2.2	24.49	0.281	2
9538	1907.6	22.22	2.2	24.42	0.277	2

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: QIPPLS62-W. Test report no.: I17D00184-SRD05

Bandwidth	RB size/offset	Freq. (MHz)	Power (dBm)			Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			QPSK	16QAM	max Power				
1.4MHz	1 RB high	1850.70	21.28	20.36	21.28	2.2	23.48	0.223	2
		1880.00	21.51	20.56	21.51	2.2	23.71	0.235	2
		1909.30	21.33	20.39	21.33	2.2	23.53	0.225	2
	1 RB low	1850.70	21.31	20.4	21.31	2.2	23.51	0.224	2
		1880.00	21.52	20.56	21.52	2.2	23.72	0.236	2
		1909.30	21.38	20.46	21.38	2.2	23.58	0.228	2
	50% RB mid	1850.70	21.3	21.3	21.3	2.2	23.5	0.224	2
		1880.00	21.44	21.45	21.45	2.2	23.65	0.232	2
		1909.30	21.34	21.33	21.34	2.2	23.54	0.226	2
	100% RB	1850.70	20.27	19.33	20.27	2.2	22.47	0.177	2
		1880.00	20.42	19.54	20.42	2.2	22.62	0.183	2
		1909.30	20.27	19.36	20.27	2.2	22.47	0.177	2
3MHz	1 RB high	1851.50	21.16	20.3	21.16	2.2	23.36	0.217	2
		1880.00	21.35	20.78	21.35	2.2	23.55	0.226	2
		1908.50	21.3	20.4	21.3	2.2	23.5	0.224	2
	1 RB low	1851.50	21.24	20.38	21.24	2.2	23.44	0.221	2
		1880.00	21.46	20.95	21.46	2.2	23.66	0.232	2
		1908.50	21.38	20.54	21.38	2.2	23.58	0.228	2
	50% RB mid	1851.50	20.18	19.28	20.18	2.2	22.38	0.173	2
		1880.00	20.38	19.56	20.38	2.2	22.58	0.181	2
		1908.50	20.27	19.39	20.27	2.2	22.47	0.177	2
	100% RB	1851.50	20.14	19.24	20.14	2.2	22.34	0.171	2
		1880.00	20.44	19.54	20.44	2.2	22.64	0.184	2
		1908.50	20.32	19.38	20.32	2.2	22.52	0.179	2

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: QIPPLS62-W. Test report no.: I17D00184-SRD06

Bandwidth	RB size/offset	Freq. (MHz)	Power (dBm)			Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			QPSK	16QAM	max Power				
5MHz	1 RB high	1852.50	21.16	20.31	21.16	2.2	23.36	0.217	2
		1880.00	21.41	20.18	21.41	2.2	23.61	0.230	2
		1907.50	21.23	20.48	21.23	2.2	23.43	0.220	2
	1 RB low	1852.50	21.25	20.37	21.25	2.2	23.45	0.221	2
		1880.00	21.55	20.33	21.55	2.2	23.75	0.237	2
		1907.50	21.46	20.6	21.46	2.2	23.66	0.232	2
	50% RB mid	1852.50	20.11	20.1	20.11	2.2	22.31	0.170	2
		1880.00	20.42	20.43	20.43	2.2	22.63	0.183	2
		1907.50	20.27	20.28	20.28	2.2	22.48	0.177	2
	100% RB	1852.50	20.12	19.24	20.12	2.2	22.32	0.171	2
		1880.00	20.46	19.52	20.46	2.2	22.66	0.185	2
		1907.50	20.28	19.44	20.28	2.2	22.48	0.177	2
10MHz	1 RB high	1855.00	21.2	20.35	21.2	2.2	23.4	0.219	2
		1880.00	21.45	20.95	21.45	2.2	23.65	0.232	2
		1905.00	21.39	20.52	21.39	2.2	23.59	0.229	2
	1 RB low	1855.00	21.46	20.58	21.46	2.2	23.66	0.232	2
		1880.00	21.82	21.3	21.82	2.2	24.02	0.252	2
		1905.00	21.74	20.97	21.74	2.2	23.94	0.248	2
	50% RB mid	1855.00	20.12	20.12	20.12	2.2	22.32	0.171	2
		1880.00	20.44	20.45	20.45	2.2	22.65	0.184	2
		1905.00	20.33	20.35	20.35	2.2	22.55	0.180	2
	100% RB	1855.00	20.2	19.28	20.2	2.2	22.4	0.174	2
		1880.00	20.58	19.67	20.58	2.2	22.78	0.190	2
		1905.00	20.45	19.55	20.45	2.2	22.65	0.184	2

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: QIPPLS62-W. Test report no.: I17D00184-SRD06

Bandwidth	RB size/offset	Freq. (MHz)	Power (dBm)			Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			QPSK	16QAM	max Power				
15MHz	1 RB high	1857.50	21.27	20.52	21.27	2.2	23.47	0.222	2
		1880.00	21.5	21.05	21.5	2.2	23.7	0.234	2
		1902.50	21.43	20.6	21.43	2.2	23.63	0.231	2
	1 RB low	1857.50	21.74	20.91	21.74	2.2	23.94	0.248	2
		1880.00	22	21.57	22	2.2	24.2	0.263	2
		1902.50	22.16	21.27	22.16	2.2	24.36	0.273	2
	50% RB mid	1857.50	20.35	20.34	20.35	2.2	22.55	0.180	2
		1880.00	20.56	20.55	20.56	2.2	22.76	0.189	2
		1902.50	20.45	20.48	20.48	2.2	22.68	0.185	2
	100% RB	1857.50	20.44	19.48	20.44	2.2	22.64	0.184	2
		1880.00	20.68	19.74	20.68	2.2	22.88	0.194	2
		1902.50	20.58	19.65	20.58	2.2	22.78	0.190	2
20MHz	1 RB high	1860.00	21.2	20.37	21.2	2.2	23.4	0.219	2
		1880.00	21.43	20.66	21.43	2.2	23.63	0.231	2
		1900.00	21.07	20.45	21.07	2.2	23.27	0.212	2
	1 RB low	1860.00	21.65	20.85	21.65	2.2	23.85	0.243	2
		1880.00	22.11	21.27	22.11	2.2	24.31	0.270	2
		1900.00	21.98	21.35	21.98	2.2	24.18	0.262	2
	50% RB mid	1860.00	20.22	20.24	20.24	2.2	22.44	0.175	2
		1880.00	20.48	20.46	20.48	2.2	22.68	0.185	2
		1900.00	20.35	20.35	20.35	2.2	22.55	0.180	2
	100% RB	1860.00	20.39	19.47	20.39	2.2	22.59	0.182	2
		1880.00	20.64	19.72	20.64	2.2	22.84	0.192	2
		1900.00	20.58	19.68	20.58	2.2	22.78	0.190	2

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: QIPPLS62-W. Test report no.: I17D00184-SRD06

3.1.5 Verification of Conducted Output Power

Mode	GPRS 1900 (GMSK 1 Slot)		
Channel	Frequency (MHz)	Conducted Output Power (dBm)	
		Original	Verified
512	1850.2	30.15	30.21
661	1880.0	29.86	30.01
810	1909.8	29.79	30.18

Mode	EDGE 1900 (8PSK 1 Slot)		
Channel	Frequency (MHz)	Conducted Output Power (dBm)	
		Original	Verified
512	1850.2	25.47	25.10
661	1880.0	25.15	25.05
810	1909.8	25.06	25.03

Mode	WCDMA BAND II		
Channel	Frequency (MHz)	Conducted Output Power (dBm)	
		Original	Verified
9262	1852.4	22.30	23.18
9400	1880.0	22.29	23.12
9538	1907.6	22.22	23.01

Mode	LTE					
Bandwidth	RB size/offset	Freq. (MHz)	Conducted Output Power (dBm)			
			QPSK		16QAM	
			Original	Verified	Original	Verified
15MHz	1 RB high	1857.5	21.27	22.24	20.52	21.62
		1880	21.50	22.34	21.05	21.88
		1902.5	21.43	22.14	20.60	21.22
	1 RB low	1857.5	21.74	22.46	20.91	21.85
		1880	22.00	22.88	21.57	22.08
		1902.5	22.16	22.76	21.27	21.96
	50% RB mid	1857.5	20.35	21.26	20.34	20.63
		1880	20.56	21.38	20.55	20.73
		1902.5	20.45	21.32	20.48	20.55
	100% RB	1857.5	20.44	21.38	19.48	20.42
		1880	20.68	21.65	19.74	20.63
		1902.5	20.58	21.54	19.65	20.58

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

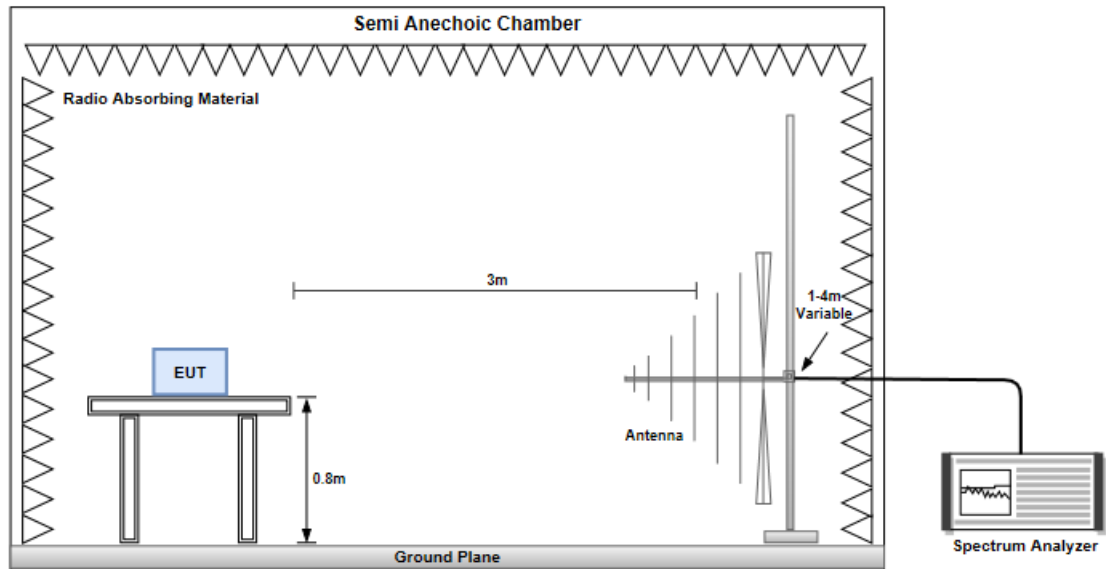
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.2.2 Test Procedures

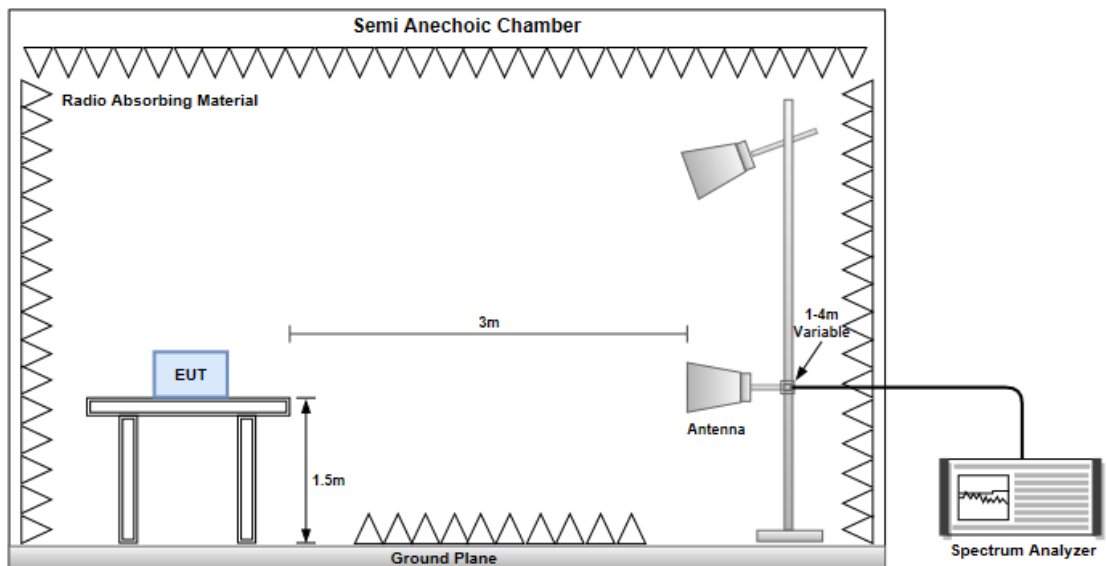
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode	GPRS, Channel : 512						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-62.79	-13.00	-49.79	-72.65	-42.82	-19.97
64.92	H	-69.78	-13.00	-56.78	-70.35	-57.22	-12.56
98.87	H	-69.66	-13.00	-56.66	-68.50	-64.50	-5.16
337.49	H	-74.13	-13.00	-61.13	-74.99	-72.77	-1.36
420.91	H	-62.73	-13.00	-49.73	-65.02	-61.44	-1.29
953.44	H	-62.26	-13.00	-49.26	-71.67	-59.31	-2.95
30.97	V	-65.79	-13.00	-52.79	-65.85	-46.09	-19.70
48.43	V	-64.36	-13.00	-51.36	-61.86	-47.98	-16.38
64.92	V	-68.33	-13.00	-55.33	-68.96	-55.77	-12.56
90.14	V	-63.37	-13.00	-50.37	-63.52	-58.24	-5.13
439.34	V	-70.18	-13.00	-57.18	-72.85	-68.97	-1.21
953.44	V	-59.25	-13.00	-46.25	-70.79	-56.30	-2.95

Mode	WCDMA, Channel : 9262						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-62.64	-13.00	-49.64	-72.50	-42.67	-19.97
64.92	H	-68.87	-13.00	-55.87	-69.44	-56.31	-12.56
90.14	H	-68.32	-13.00	-55.32	-66.87	-63.19	-5.13
168.71	H	-73.81	-13.00	-60.81	-73.05	-68.16	-5.65
286.08	H	-73.34	-13.00	-60.34	-71.39	-71.87	-1.47
939.86	H	-60.68	-13.00	-47.68	-70.00	-57.78	-2.90
30.97	V	-64.64	-13.00	-51.64	-64.70	-44.94	-19.70
54.25	V	-70.44	-13.00	-57.44	-69.31	-55.10	-15.34
90.14	V	-64.31	-13.00	-51.31	-64.46	-59.18	-5.13
439.34	V	-70.81	-13.00	-57.81	-73.48	-69.60	-1.21
562.53	V	-67.60	-13.00	-54.60	-74.36	-66.06	-1.54
936.95	V	-60.13	-13.00	-47.13	-71.64	-57.25	-2.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 2, QPSK, CB:1.4 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.IR.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-64.50	-13.00	-51.50	-74.36	-44.53	-19.97
90.14	H	-67.88	-13.00	-54.88	-66.43	-62.75	-5.13
98.87	H	-68.01	-13.00	-55.01	-66.85	-62.85	-5.16
167.74	H	-74.51	-13.00	-61.51	-73.77	-68.76	-5.75
424.79	H	-72.53	-13.00	-59.53	-74.85	-71.26	-1.27
953.44	H	-61.36	-13.00	-48.36	-70.77	-58.41	-2.95
30.97	V	-64.32	-13.00	-51.32	-64.38	-44.62	-19.70
52.31	V	-69.52	-13.00	-56.52	-68.00	-53.82	-15.70
90.14	V	-64.76	-13.00	-51.76	-64.91	-59.63	-5.13
439.34	V	-70.91	-13.00	-57.91	-73.58	-69.70	-1.21
937.92	V	-59.83	-13.00	-46.83	-71.36	-56.94	-2.89
953.44	V	-56.59	-13.00	-43.59	-68.13	-53.64	-2.95

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.IR.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-65.05	-13.00	-52.05	-74.91	-45.08	-19.97
90.14	H	-66.28	-13.00	-53.28	-64.83	-61.15	-5.13
98.87	H	-70.72	-13.00	-57.72	-69.56	-65.56	-5.16
171.62	H	-73.57	-13.00	-60.57	-72.79	-68.23	-5.34
258.92	H	-72.91	-13.00	-59.91	-69.99	-71.43	-1.48
953.44	H	-61.38	-13.00	-48.38	-70.79	-58.43	-2.95
30.97	V	-65.51	-13.00	-52.51	-65.57	-45.81	-19.70
57.16	V	-69.72	-13.00	-56.72	-69.13	-55.03	-14.69
90.14	V	-62.93	-13.00	-49.93	-63.08	-57.80	-5.13
439.34	V	-70.29	-13.00	-57.29	-72.96	-69.08	-1.21
937.92	V	-61.94	-13.00	-48.94	-73.47	-59.05	-2.89
953.44	V	-57.23	-13.00	-44.23	-68.77	-54.28	-2.95

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:5 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.IR.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-64.39	-13.00	-51.39	-74.25	-44.42	-19.97
52.31	H	-68.05	-13.00	-55.05	-71.34	-52.35	-15.70
90.14	H	-65.76	-13.00	-52.76	-64.31	-60.63	-5.13
171.62	H	-73.15	-13.00	-60.15	-72.37	-67.81	-5.34
869.05	H	-61.67	-13.00	-48.67	-70.28	-59.17	-2.50
953.44	H	-60.62	-13.00	-47.62	-70.03	-57.67	-2.95
30.97	V	-65.56	-13.00	-52.56	-65.62	-45.86	-19.70
57.16	V	-69.13	-13.00	-56.13	-68.54	-54.44	-14.69
90.14	V	-63.90	-13.00	-50.90	-64.05	-58.77	-5.13
439.34	V	-70.62	-13.00	-57.62	-73.29	-69.41	-1.21
937.92	V	-61.45	-13.00	-48.45	-72.98	-58.56	-2.89
953.44	V	-58.17	-13.00	-45.17	-69.71	-55.22	-2.95

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:10 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.IR.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
33.88	H	-64.27	-13.00	-51.27	-72.78	-45.39	-18.88
51.34	H	-70.07	-13.00	-57.07	-73.67	-54.19	-15.88
90.14	H	-66.12	-13.00	-53.12	-64.67	-60.99	-5.13
171.62	H	-73.73	-13.00	-60.73	-72.95	-68.39	-5.34
897.18	H	-47.37	-13.00	-34.37	-56.34	-44.76	-2.61
953.44	H	-59.21	-13.00	-46.21	-68.62	-56.26	-2.95
30.97	V	-66.24	-13.00	-53.24	-66.30	-46.54	-19.70
51.34	V	-69.90	-13.00	-56.90	-68.18	-54.02	-15.88
90.14	V	-64.13	-13.00	-51.13	-64.28	-59.00	-5.13
439.34	V	-70.16	-13.00	-57.16	-72.83	-68.95	-1.21
869.05	V	-56.91	-13.00	-43.91	-66.84	-54.41	-2.50
953.44	V	-58.49	-13.00	-45.49	-70.03	-55.54	-2.95

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:15 MHz, 1 RB Offset 0, Channel: 19125						
Frequency (MHz)	Antenna Polarity	E.IR.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-50.97	-13.00	-37.97	-73.83	-31.00	-19.97
52.31	H	-56.02	-13.00	-43.02	-72.31	-40.32	-15.70
90.14	H	-53.65	-13.00	-40.65	-65.20	-48.52	-5.13
98.87	H	-56.23	-13.00	-43.23	-68.07	-51.07	-5.16
167.74	H	-47.42	-13.00	-34.42	-59.68	-41.67	-5.75
953.44	H	-47.25	-13.00	-34.25	-69.66	-44.30	-2.95
30.00	V	-67.62	-13.00	-54.62	-68.70	-47.65	-19.97
64.92	V	-68.48	-13.00	-55.48	-69.11	-55.92	-12.56
90.14	V	-63.86	-13.00	-50.86	-64.01	-58.73	-5.13
551.86	V	-67.79	-13.00	-54.79	-74.27	-66.34	-1.45
869.05	V	-61.40	-13.00	-48.40	-71.33	-58.90	-2.50
953.44	V	-57.57	-13.00	-44.57	-69.11	-54.62	-2.95

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:20 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.IR.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-64.03	-13.00	-51.03	-73.89	-44.06	-19.97
52.31	H	-68.98	-13.00	-55.98	-72.27	-53.28	-15.70
90.14	H	-66.78	-13.00	-53.78	-65.33	-61.65	-5.13
98.87	H	-69.19	-13.00	-56.19	-68.03	-64.03	-5.16
167.74	H	-73.58	-13.00	-60.58	-72.84	-67.83	-5.75
953.44	H	-60.17	-13.00	-47.17	-69.58	-57.22	-2.95
30.00	V	-54.67	-13.00	-41.67	-68.75	-34.70	-19.97
64.92	V	-55.52	-13.00	-42.52	-69.15	-42.96	-12.56
90.14	V	-50.93	-13.00	-37.93	-64.08	-45.80	-5.13
551.86	V	-54.70	-13.00	-41.70	-74.18	-53.25	-1.45
869.05	V	-48.42	-13.00	-35.42	-71.35	-45.92	-2.50
953.44	V	-44.68	-13.00	-31.68	-69.22	-41.73	-2.95

Note: EIRP = S.G Power value + Correction factor.

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode	GPRS , Channel : 512						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3700.40	H	-46.34	-13.00	-33.34	-59.90	-53.29	6.95
5550.60	H	-46.95	-13.00	-33.95	-63.72	-53.74	6.79
7400.80	H	-44.38	-13.00	-31.38	-64.19	-47.70	3.32
3700.40	V	-45.03	-13.00	-32.03	-58.38	-51.98	6.95
5550.60	V	-43.75	-13.00	-30.75	-60.51	-50.54	6.79
7400.80	V	-43.54	-13.00	-30.54	-63.81	-46.86	3.32

Mode	GPRS , Channel : 661						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3760.00	H	-49.75	-13.00	-36.75	-63.56	-56.68	6.93
5640.00	H	-47.10	-13.00	-34.10	-64.08	-53.85	6.75
7520.00	H	-45.08	-13.00	-32.08	-64.06	-48.49	3.41
3760.00	V	-48.64	-13.00	-35.64	-62.24	-55.57	6.93
5640.00	V	-43.59	-13.00	-30.59	-60.56	-50.34	6.75
7520.00	V	-44.29	-13.00	-31.29	-63.88	-47.70	3.41

Mode	GPRS , Channel : 810						
Frequency (MHz)	Antenna Polarity.	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3819.60	H	-44.37	-13.00	-31.37	-58.34	-51.30	6.93
5729.40	H	-46.62	-13.00	-33.62	-63.80	-53.30	6.68
7639.20	H	-45.39	-13.00	-32.39	-64.10	-48.85	3.46
3819.60	V	-44.28	-13.00	-31.28	-58.07	-51.21	6.93
5729.40	V	-45.20	-13.00	-32.20	-62.43	-51.88	6.68
7639.20	V	-44.81	-13.00	-31.81	-64.17	-48.27	3.46

Note: EIRP = S.G Power value + Correction factor

Mode	WCDMA , Channel : 9262						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3704.80	H	-46.54	-13.00	-33.54	-60.11	-53.49	6.95
5557.20	H	-47.08	-13.00	-34.08	-63.86	-53.87	6.79
7409.60	H	-44.54	-13.00	-31.54	-64.27	-47.87	3.33
3704.80	V	-45.12	-13.00	-32.12	-58.48	-52.07	6.95
5557.20	V	-43.82	-13.00	-30.82	-60.59	-50.61	6.79
7409.60	V	-43.65	-13.00	-30.65	-63.86	-46.98	3.33

Mode	WCDMA , Channel : 9400						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3760.00	H	-49.84	-13.00	-36.84	-63.65	-56.77	6.93
5640.00	H	-47.24	-13.00	-34.24	-64.22	-53.99	6.75
7520.00	H	-45.14	-13.00	-32.14	-64.12	-48.55	3.41
3760.00	V	-48.73	-13.00	-35.73	-62.33	-55.66	6.93
5640.00	V	-43.64	-13.00	-30.64	-60.61	-50.39	6.75
7520.00	V	-44.43	-13.00	-31.43	-64.02	-47.84	3.41

Mode	WCDMA , Channel : 9538						
Frequency (MHz)	Antenna Polarity.	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3815.20	H	-44.58	-13.00	-31.58	-58.56	-51.50	6.92
5722.80	H	-46.72	-13.00	-33.72	-63.88	-53.40	6.68
7630.40	H	-45.50	-13.00	-32.50	-64.16	-48.97	3.47
3815.20	V	-44.33	-13.00	-31.33	-58.12	-51.25	6.92
5722.80	V	-45.34	-13.00	-32.34	-62.55	-52.02	6.68
7630.40	V	-44.95	-13.00	-31.95	-64.28	-48.42	3.47

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 2, QPSK, CB:1.4 MHz, 1 RB Offset 0, Channel: 18607						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3700.40	H	-43.86	-13.00	-30.86	-57.42	-50.81	6.95
5550.60	H	-43.21	-13.00	-30.21	-59.98	-50.00	6.79
7400.80	H	-44.20	-13.00	-31.20	-64.01	-47.52	3.32
3700.40	V	-41.50	-13.00	-28.50	-54.85	-48.45	6.95
5550.60	V	-38.82	-13.00	-25.82	-55.58	-45.61	6.79
7400.80	V	-42.14	-13.00	-29.14	-62.41	-45.46	3.32

Mode	LTE Band 2, QPSK, CB:1.4 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3759.00	H	-46.97	-13.00	-33.97	-60.78	-53.90	6.93
5638.50	H	-43.03	-13.00	-30.03	-60.00	-49.78	6.75
7518.00	H	-42.19	-13.00	-29.19	-61.18	-45.60	3.41
3759.00	V	-44.42	-13.00	-31.42	-58.02	-51.35	6.93
5638.50	V	-38.48	-13.00	-25.48	-55.44	-45.23	6.75
7518.00	V	-40.76	-13.00	-27.76	-60.36	-44.17	3.41

Mode	LTE Band 2, QPSK, CB:1.4 MHz, 1 RB Offset 0, Channel: 19193						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3817.60	H	-42.68	-13.00	-29.68	-56.65	-49.61	6.93
5726.40	H	-44.39	-13.00	-31.39	-61.56	-51.07	6.68
7635.20	H	-43.88	-13.00	-30.88	-62.57	-47.34	3.46
3817.60	V	-40.09	-13.00	-27.09	-53.88	-47.02	6.93
5726.40	V	-40.93	-13.00	-27.93	-58.16	-47.61	6.68
7635.20	V	-42.96	-13.00	-29.96	-62.31	-46.42	3.46

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 18615						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3700.80	H	-44.32	-13.00	-31.32	-57.88	-51.27	6.95
5551.20	H	-43.48	-13.00	-30.48	-60.25	-50.27	6.79
7401.60	H	-43.47	-13.00	-30.47	-63.26	-46.79	3.32
3700.80	V	-41.60	-13.00	-28.60	-54.95	-48.55	6.95
5551.20	V	-38.93	-13.00	-25.93	-55.69	-45.72	6.79
7401.60	V	-42.25	-13.00	-29.25	-62.50	-45.57	3.32

Mode	LTE Band 2, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3757.80	H	-46.84	-13.00	-33.84	-60.64	-53.77	6.93
5636.70	H	-43.27	-13.00	-30.27	-60.24	-50.02	6.75
7515.60	H	-42.27	-13.00	-29.27	-61.27	-45.68	3.41
3757.80	V	-44.61	-13.00	-31.61	-58.20	-51.54	6.93
5636.70	V	-38.68	-13.00	-25.68	-55.64	-45.43	6.75
7515.60	V	-40.82	-13.00	-27.82	-60.43	-44.23	3.41

Mode	LTE Band 2, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 19185						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3814.80	H	-42.80	-13.00	-29.80	-56.78	-49.72	6.92
5722.20	H	-44.49	-13.00	-31.49	-61.65	-51.17	6.68
7629.60	H	-43.93	-13.00	-30.93	-62.59	-47.40	3.47
3814.80	V	-40.33	-13.00	-27.33	-54.12	-47.25	6.92
5722.20	V	-41.03	-13.00	-28.03	-58.24	-47.71	6.68
7629.60	V	-43.11	-13.00	-30.11	-62.44	-46.58	3.47

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:5 MHz, 1 RB Offset 0, Channel: 18625						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3700.60	H	-42.80	-13.00	-29.80	-56.78	-49.75	6.95
5550.90	H	-44.49	-13.00	-31.49	-61.65	-51.28	6.79
7401.20	H	-43.93	-13.00	-30.93	-62.59	-47.25	3.32
3700.60	V	-40.33	-13.00	-27.33	-54.12	-47.28	6.95
5550.90	V	-41.03	-13.00	-28.03	-58.24	-47.82	6.79
7401.20	V	-43.11	-13.00	-30.11	-62.44	-46.43	3.32

Mode	LTE Band 2, QPSK, CB:5 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3755.60	H	-44.28	-13.00	-31.28	-57.84	-51.21	6.93
5633.40	H	-43.47	-13.00	-30.47	-60.24	-50.22	6.75
7511.20	H	-44.12	-13.00	-31.12	-63.91	-47.52	3.40
3755.60	V	-41.98	-13.00	-28.98	-55.33	-48.91	6.93
5633.40	V	-39.19	-13.00	-26.19	-55.95	-45.94	6.75
7511.20	V	-42.65	-13.00	-29.65	-62.90	-46.05	3.40

Mode	LTE Band 2, QPSK, CB:5 MHz, 1 RB Offset 0, Channel: 19175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3810.60	H	-42.62	-13.00	-29.62	-56.60	-49.54	6.92
5715.90	H	-44.24	-13.00	-31.24	-61.38	-50.93	6.69
7621.20	H	-43.82	-13.00	-30.82	-62.43	-47.29	3.47
3810.60	V	-39.90	-13.00	-26.90	-53.69	-46.82	6.92
5715.90	V	-41.10	-13.00	-28.10	-58.29	-47.79	6.69
7621.20	V	-43.13	-13.00	-30.13	-62.42	-46.60	3.47

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:10 MHz, 1 RB Offset 0, Channel: 18650						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3701.20	H	-44.02	-13.00	-31.02	-57.58	-50.97	6.95
5551.80	H	-43.48	-13.00	-30.48	-60.25	-50.27	6.79
7402.40	H	-44.20	-13.00	-31.20	-63.99	-47.52	3.32
3701.20	V	-41.86	-13.00	-28.86	-55.21	-48.81	6.95
5551.80	V	-38.90	-13.00	-25.90	-55.66	-45.69	6.79
7402.40	V	-42.06	-13.00	-29.06	-62.31	-45.38	3.32

Mode	LTE Band 2, QPSK, CB:10 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3751.20	H	-47.07	-13.00	-34.07	-60.85	-54.00	6.93
5626.80	H	-43.24	-13.00	-30.24	-60.19	-50.00	6.76
7502.40	H	-42.51	-13.00	-29.51	-61.60	-45.91	3.40
3751.20	V	-45.77	-13.00	-32.77	-59.34	-52.70	6.93
5626.80	V	-38.72	-13.00	-25.72	-55.65	-45.48	6.76
7502.40	V	-41.09	-13.00	-28.09	-60.77	-44.49	3.40

Mode	LTE Band 2, QPSK, CB:10 MHz, 1 RB Offset 0, Channel: 19150						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3801.20	H	-42.70	-13.00	-29.70	-56.68	-49.61	6.91
5701.80	H	-44.27	-13.00	-31.27	-61.39	-50.97	6.70
7602.40	H	-43.81	-13.00	-30.81	-62.31	-47.28	3.47
3801.20	V	-40.35	-13.00	-27.35	-54.12	-47.26	6.91
5701.80	V	-41.10	-13.00	-28.10	-58.25	-47.80	6.70
7602.40	V	-42.74	-13.00	-29.74	-61.95	-46.21	3.47

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:15 MHz, 1 RB Offset 0, Channel: 18675						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3701.80	H	-30.94	-13.00	-17.94	-57.50	-37.89	6.95
5552.70	H	-30.30	-13.00	-17.30	-60.07	-37.09	6.79
7403.60	H	-31.55	-13.00	-18.55	-64.33	-34.87	3.32
3701.80	V	-41.24	-13.00	-28.24	-54.59	-48.19	6.95
5552.70	V	-38.87	-13.00	-25.87	-55.63	-45.66	6.79
7403.60	V	-42.03	-13.00	-29.03	-62.27	-45.35	3.32

Mode	LTE Band 2, QPSK, CB:15 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3746.80	H	-46.81	-13.00	-33.81	-60.56	-53.74	6.93
5620.20	H	-43.27	-13.00	-30.27	-60.20	-50.03	6.76
7493.60	H	-42.30	-13.00	-29.30	-61.45	-45.69	3.39
3746.80	V	-44.67	-13.00	-31.67	-58.21	-51.60	6.93
5620.20	V	-38.60	-13.00	-25.60	-55.51	-45.36	6.76
7493.60	V	-40.88	-13.00	-27.88	-60.61	-44.27	3.39

Mode	LTE Band 2, QPSK, CB:15 MHz, 1 RB Offset 0, Channel: 19125						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3791.80	H	-42.51	-13.00	-29.51	-56.46	-49.42	6.91
5687.70	H	-44.53	-13.00	-31.53	-61.61	-51.24	6.71
7583.60	H	-44.15	-13.00	-31.15	-62.73	-47.61	3.46
3791.80	V	-39.91	-13.00	-26.91	-53.65	-46.82	6.91
5687.70	V	-41.04	-13.00	-28.04	-58.15	-47.75	6.71
7583.60	V	-43.24	-13.00	-30.24	-62.51	-46.70	3.46

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 2, QPSK, CB:20 MHz, 1 RB Offset 0, Channel: 18700						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3702.40	H	-43.92	-13.00	-30.92	-57.48	-50.87	6.95
5553.60	H	-43.34	-13.00	-30.34	-60.11	-50.13	6.79
7404.80	H	-44.68	-13.00	-31.68	-64.45	-48.00	3.32
3702.40	V	-41.22	-13.00	-28.22	-54.57	-48.17	6.95
5553.60	V	-38.87	-13.00	-25.87	-55.63	-45.66	6.79
7404.80	V	-42.37	-13.00	-29.37	-62.61	-45.69	3.32

Mode	LTE Band 2, QPSK, CB:20 MHz, 1 RB Offset 0, Channel: 18900						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3742.40	H	-46.84	-13.00	-33.84	-60.57	-53.77	6.93
5613.60	H	-43.30	-13.00	-30.30	-60.21	-50.07	6.77
7484.80	H	-42.26	-13.00	-29.26	-61.47	-45.64	3.38
3742.40	V	-44.65	-13.00	-31.65	-58.17	-51.58	6.93
5613.60	V	-38.64	-13.00	-25.64	-55.52	-45.41	6.77
7484.80	V	-40.88	-13.00	-27.88	-60.66	-44.26	3.38

Mode	LTE Band 2, QPSK, CB:20 MHz, 1 RB Offset 0, Channel: 19100						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3782.40	H	-42.79	-13.00	-29.79	-56.69	-49.71	6.92
5673.60	H	-44.34	-13.00	-31.34	-61.39	-51.06	6.72
7564.80	H	-44.13	-13.00	-31.13	-62.83	-47.57	3.44
3782.40	V	-39.92	-13.00	-26.92	-53.61	-46.84	6.92
5673.60	V	-41.06	-13.00	-28.06	-58.12	-47.78	6.72
7564.80	V	-43.25	-13.00	-30.25	-62.62	-46.69	3.44

Note: EIRP = S.G Power value + Correction factor.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

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