

FCC Test Report (PART 22) (Spot Check)

Report No.: RF180321E03Y

FCC ID: MCLT77W968C9

Original FCC ID: MCLT77W968

Test Model: T77W968C9

Received Date: Dec. 26, 2019

Test Date: Jan. 08 to 17, 2020

Issued Date: Feb. 03, 2020

Applicant: HON HAI PRECISION IND. CO., LTD.

Address: 5F-1,5 Hsin-An Road Hsinchu, Science-Based Industrial Park Taiwan,
R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan.

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan.

**FCC Registration /
Designation Number:** 723255 / TW2022



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	5
2.2 Test Site and Instruments	6
3 General Information	9
3.1 General Description of EUT	9
3.2 Configuration of System under Test	12
3.2.1 Description of Support Units	13
3.3 Test Mode Applicability and Tested Channel Detail	14
3.4 EUT Operating Conditions	14
3.5 General Description of Applied Standards and References	15
4 Test Types and Results	16
4.1 Output Power Measurement	16
4.1.1 Limits of Output Power Measurement	16
4.1.2 Test Procedures	16
4.1.3 Test Setup	16
4.1.4 Test Results	17
4.2 Radiated Emission Measurement	26
4.2.1 Limits of Radiated Emission Measurement	26
4.2.2 Test Procedure	26
4.2.3 Deviation from Test Standard	26
4.2.4 Test Setup	27
4.2.5 Test Results	28
5 Pictures of Test Arrangements	34
Appendix – Information of the Testing Laboratories	35

Release Control Record

Issue No.	Description	Date Issued
RF180321E03Y	Original release.	Feb. 03, 2020

1 Certificate of Conformity

Product: LTE M.2 Module

Brand: FOXCONN

Test Model: T77W968C9

Sample Status: ENGINEERING SAMPLE

Applicant: HON HAI PRECISION IND. CO., LTD.

Test Date: Jan. 08 to 17, 2020

Standards: FCC Part 22, Subpart H

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :  , **Date:** Feb. 03, 2020
Claire Kuan / Specialist

Approved by :  , **Date:** Feb. 03, 2020
Clark Lin / Technical Manager

2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective radiated power	PASS	Meet the requirement of limit.
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -34.46dB at 4132MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.0 dB
	30MHz ~ 1GHz	5.1 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.1 dB
	6GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.2 dB

2.2 Test Site and Instruments

For radiated spurious emissions below 1GHz test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 03, 2019	July 02, 2020
Pre-Amplifier EMCI	EMC001340	980142	May 30, 2019	May 29, 2020
Loop Antenna Electro-Metrics	EM-6879	264	Jan. 22, 2019	Jan. 21, 2020
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	Apr. 30, 2019	Apr. 29, 2020
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 11, 2019	Nov. 10, 2020
RF Cable	8D	966-3-1	Mar. 18, 2019	Mar. 17, 2020
RF Cable	8D	966-3-2	Mar. 18, 2019	Mar. 17, 2020
RF Cable	8D	966-3-3	Mar. 18, 2019	Mar. 17, 2020
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 26, 2019	Sep. 25, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: Jan. 17, 2020

For radiated spurious emissions above 1GHz test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 03, 2019	July 02, 2020
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC104-SM-SM-1200	160922	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC104-SM-SM-2000	180601	June 10, 2019	June 09, 2020
RF Cable	EMC104-SM-SM-6000	180602	June 10, 2019	June 09, 2020
Spectrum Analyzer Keysight	N9030A	MY54490679	July 17, 2019	July 16, 2020
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 28, 2019	Jan. 27, 2020
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: Jan. 08 to 09, 2020

For other test items

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	June 04, 2019	June 03, 2020
Spectrum Analyzer Agilent	E4446A	MY48250253	July 24, 2019	July 23, 2020
Power meter Anritsu	ML2495A	1014008	May 13, 2019	May 12, 2020
Power sensor Anritsu	MA2411B	0917122	May 13, 2019	May 12, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020
AC Power Source Extech Electronics	6205	1440452	NA	NA
DC Power Supply Topward	6603D	795558	NA	NA
True RMS Clamp Meter FLUKE	325	31130711WS	May 21, 2019	May 20, 2020
ESG Vector signal generator Agilent	E4438C	MY45094468/005 506 602 UK6 UNJ	Nov. 14, 2019	Nov. 13, 2020
Mech Switch Absorptive Mini-Circuits	MSP4TA-18+	0140	Feb. 11, 2019	Feb. 10, 2020
FXD ATTEN Mini-Circuits	BW-S3W2+	MN71981	Feb. 11, 2019	Feb. 10, 2020
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- NOTE:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Jan. 14, 2020

3 General Information

3.1 General Description of EUT

Product	LTE M.2 Module	
Brand	FOXCONN	
Test Model	T77W968C9	
Status of EUT	ENGINEERING SAMPLE	
Power Supply Rating	DC 3.3V from host equipment	
Modulation Type	WCDMA, HSDPA, HSUPA	BPSK
	LTE Band 5	QPSK, 16QAM, 64QAM
	LTE Band 26	QPSK, 16QAM, 64QAM
Operating Frequency	WCDMA, HSDPA, HSUPA	826.4MHz ~846.6MHz
	LTE Band 5	824.7MHz ~ 848.3MHz
	LTE Band 26	824.7MHz ~ 848.3MHz
Max. ERP Power	WCDMA Band 5	24.49dBm
	LTE Band 5 (Channel Bandwidth 1.4MHz)	24.21dBm
	LTE Band 5 (Channel Bandwidth 3MHz)	24.17dBm
	LTE Band 5 (Channel Bandwidth 5MHz)	24.05dBm
	LTE Band 5 (Channel Bandwidth 10MHz)	24.29dBm
	LTE Band 26 (Channel Bandwidth 1.4MHz)	24.36dBm
	LTE Band 26 (Channel Bandwidth 3MHz)	24.46dBm
	LTE Band 26 (Channel Bandwidth 5MHz)	24.33dBm
	LTE Band 26 (Channel Bandwidth 10MHz)	24.31dBm
	LTE Band 26 (Channel Bandwidth 15MHz)	24.37dBm

Emission Designator	WCDMA Band 5	4M13F9W
	LTE Band 5 (Channel Bandwidth 1.4MHz)	QPSK: 1M09G7D 16QAM: 1M09D7W 64QAM: 1M09D7W
	LTE Band 5 (Channel Bandwidth 3MHz)	QPSK: 2M70G7D 16QAM: 2M70D7W 64QAM: 2M70D7W
	LTE Band 5 (Channel Bandwidth 5MHz)	QPSK: 4M49G7D 16QAM: 4M49D7W 64QAM: 4M49D7W
	LTE Band 5 (Channel Bandwidth 10MHz)	QPSK: 8M97G7D 16QAM: 8M97D7W 64QAM: 8M96D7W
	LTE Band 26 (Channel Bandwidth 1.4MHz)	QPSK: 1M09G7D 16QAM: 1M09D7W 64QAM: 1M09D7W
	LTE Band 26 (Channel Bandwidth 3MHz)	QPSK: 2M70G7D 16QAM: 2M70D7W 64QAM: 2M70D7W
	LTE Band 26 (Channel Bandwidth 5MHz)	QPSK: 4M49G7D 16QAM: 4M49D7W 64QAM: 4M49D7W
	LTE Band 26 (Channel Bandwidth 10MHz)	QPSK: 8M96G7D 16QAM: 8M97D7W 64QAM: 8M96D7W
	LTE Band 26 (Channel Bandwidth 15MHz)	QPSK: 13M5G7D 16QAM: 13M4D7W 64QAM: 13M4D7W
Antenna Type	Refer to Note	
Antenna Connector	Refer to Note	
Accessory Device	NA	
Data Cable Supplied	NA	

Note:

- Exhibit prepared for FCC Spot Check Verification Report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit. (Original FCC ID: MCLT77W968)
- The antennas provided to the EUT, please refer to the following table:

Antenna No.	Antenna Net Gain(dBi)	Frequency range (MHz)	Antenna Type	Connector Type	Cable Length
1	Please refer to below table	699~803	PIFA	i-pex(MHF)	100mm
2	Please refer to below table	791~960 1447.9~1606	PIFA	i-pex(MHF)	100mm
3	Please refer to below table	1710~2170 2500~2690	PIFA	i-pex(MHF)	100mm
4	Please refer to below table	2305~2315	Dipole	i-pex(MHF)	80mm

Antenna gain list			
Antenna No.	Band	Freq. Range (MHz)	Gain (dBi)
3	WCDMA II (B2)	1850~1910	4.92
3	WCDMA IV (B4)	1710~1755	5.99
2	WCDMA V (B5)	824~849	2.68
3	LTE Band (2)	1850~1910	4.92
3	LTE Band (4)	1710~1755	5.99
2	LTE Band (5)	824~849	2.68
3	LTE Band (7)	2500~2570	5.2
1	LTE Band (12)	698~716	4.17
1	LTE Band (13)	777~787	3.05
1	LTE Band (17)	704~716	4.17
3	LTE Band (25)	1850~1915	4.92
2	LTE Band (26)	814~849	2.92
4	LTE Band (30)	2305~2315	3.02
3	LTE Band (38)	2570~2620	4.82
3	LTE Band (41)	2496~2690	5.38
3	LTE Band (66)	1710~1780	5.99

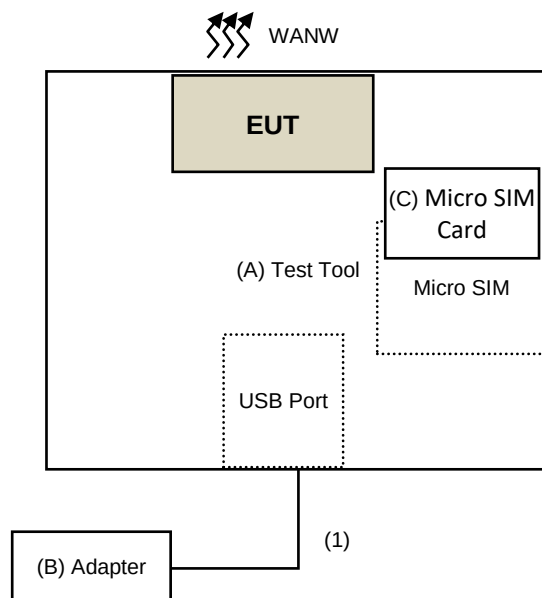
- The EUT was pre-tested under the following modes:

Test Mode	Description
Mode A	Without e-SIM
Mode B	With e-SIM

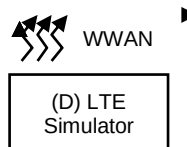
Note: From the above modes, radiated emission the worst case was found in **Mode A**. Therefore only the test data of the mode was recorded in this report.

- The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Configuration of System under Test



Remote Site



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Test Tool	Foxconn	T77W968	NA	NA	Supplied by client
B.	Adapter	ASUS	EXA1205UA	NA	NA	Provided by Lab
C.	Micro SIM Card	NA	NA	NA	NA	Provided by Lab
D.	Simulator	Keysight	E7515A	MY56030229	NA	Provided by Lab

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1	Yes	0	Provided by Lab

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

In the original test report, the worst case was found when positioned on X-plane. Following channel(s) was (were) selected for the final test as listed below:

WCDMA V MODE

Test Item	Available Channel	Tested Channel	Mode
ERP	4132 to 4233	4132, 4182, 4233	WCDMA
Radiated Emission	4132 to 4233	4132	WCDMA

LTE Band 5

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
Radiated Emission	20450 to 20600	20525	10MHz	QPSK	1RB / 0 RB offset

LTE Band 26

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
Radiated Emission	26805 to 27025	26805	3MHz	QPSK	1RB / 0 RB offset

NOTE:

All supported modulation types were evaluated. The Worst case of QPSK was selected.

Test Condition:

Test Item	Environmental Conditions	Input Power (System)	Tested By
ERP	25deg. C, 60%RH	120Vac, 60Hz	Jyunchun Lin
Radiated Emission	25deg. C, 60%RH	120Vac, 60Hz	Gary Cheng

3.4 EUT Operating Conditions

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 22, Subpart H

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 Test Procedures

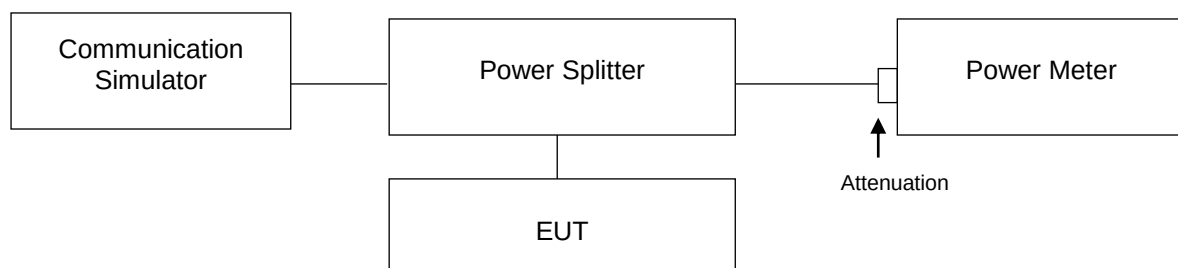
Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA / LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and difference RB size/ RB offset for difference bandwidth record the power level shown on power meter.

EIRP / ERP Measurement:

- EIRP = Conducted Output power level + Antenna gain.
- ERP power can be calculated form EIRP power by subtracting the gain of dipole, ERP power = EIPR power - 2.15dBi.
- ERP = Conducted Output power level + Antenna gain (dBi) - Isotropically Factor (2.15dB).

4.1.3 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC	23.96	23.86	23.87
HSDPA Subtest-1	23.78	23.62	23.81
HSDPA Subtest-2	23.55	23.29	23.45
HSDPA Subtest-3	23.51	23.24	23.56
HSDPA Subtest-4	23.45	23.40	23.57
HSUPA Subtest-1	23.82	23.72	23.77
HSUPA Subtest-2	23.83	23.70	23.61
HSUPA Subtest-3	23.40	23.45	23.35
HSUPA Subtest-4	23.59	23.48	23.46
HSUPA Subtest-5	23.84	23.69	23.77

LTE Band 5

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20407	20525	20643		20407	20525	20643		20407	20525	20643	
			824.7	836.5	848.3		824.7	836.5	848.3		824.7	836.5	848.3	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
5 / 1.4M	1	0	23.50	23.68	23.45	0	22.51	22.39	22.26	1	21.37	21.47	21.30	2
	1	2	23.35	23.36	23.38	0	22.40	22.33	22.20	1	21.24	21.44	21.16	2
	1	5	23.40	23.41	23.32	0	22.25	22.41	22.20	1	21.22	21.42	21.07	2
	3	0	23.49	23.51	23.38	0	22.09	22.36	22.17	1	21.33	21.29	21.24	2
	3	1	23.41	23.41	23.17	0	22.45	22.49	22.38	1	21.37	21.32	21.25	2
	3	3	23.58	23.42	22.22	0	22.40	22.47	22.29	1	21.31	21.45	21.11	2
	6	0	22.41	22.38	22.26	1	21.42	21.63	21.25	2	20.17	20.19	19.98	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20415	20525	20635		20415	20525	20635		20415	20525	20635	
			825.5	836.5	847.5		825.5	836.5	847.5		825.5	836.5	847.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
5 / 3M	1	0	23.39	23.64	23.38	0	22.39	22.35	22.39	1	21.51	21.34	21.40	2
	1	7	23.38	23.58	23.32	0	22.32	22.29	22.24	1	21.47	21.27	21.25	2
	1	14	23.32	23.46	23.35	0	22.26	22.20	22.23	1	21.47	21.30	21.26	2
	8	0	22.38	22.49	22.29	1	21.38	21.43	21.32	2	20.19	20.48	20.24	3
	8	3	22.57	22.40	22.44	1	21.38	21.45	21.47	2	20.21	20.40	20.35	3
	8	7	22.38	22.41	22.46	1	21.52	22.59	21.32	2	20.43	20.26	20.33	3
	15	0	22.45	22.59	22.39	1	21.41	21.54	21.35	2	20.32	20.34	20.45	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20425	20525	20625		20425	20525	20625		20425	20525	20625	
			826.5	836.5	846.5		826.5	836.5	846.5		826.5	836.5	846.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
5 / 5M	1	0	23.45	23.49	23.52	0	22.42	22.44	22.30	1	21.33	21.28	21.34	2
	1	12	23.42	23.31	23.44	0	22.15	22.40	22.26	1	21.27	21.27	21.30	2
	1	24	23.44	23.41	23.37	0	22.32	22.43	22.12	1	21.25	21.20	21.19	2
	12	0	22.37	22.39	22.35	1	21.73	21.32	21.28	2	20.17	20.31	20.25	3
	12	6	22.44	22.18	22.29	1	21.28	21.35	21.44	2	20.37	20.34	20.25	3
	12	13	22.37	22.42	22.51	1	21.35	21.41	21.39	2	20.28	20.36	20.19	3
	25	0	22.47	22.21	22.30	1	21.36	21.39	21.61	2	20.26	20.45	20.22	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20450	20525	20600		20450	20525	20600		20450	20525	20600	
			829	836.5	844		829	836.5	844		829	836.5	844	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
5 / 10M	1	0	23.65	23.76	23.63	0	22.56	22.38	22.65	1	21.43	21.34	21.42	2
	1	24	23.56	23.57	23.57	0	22.59	22.36	22.43	1	21.38	21.28	21.39	2
	1	49	23.39	23.59	23.61	0	22.52	22.20	22.48	1	21.34	21.20	21.35	2
	25	0	22.64	22.57	22.43	1	21.71	21.47	21.53	2	20.35	20.29	20.38	3
	25	12	22.70	22.62	22.56	1	21.48	21.55	21.51	2	20.42	20.36	20.45	3
	25	25	22.54	22.47	22.50	1	21.47	21.39	21.44	2	20.56	20.39	20.52	3
	50	0	22.64	22.46	22.34	1	21.54	21.46	21.35	2	20.23	20.50	20.24	3

LTE Band 26

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26797	26915	27033		26797	26915	27033		26797	26915	27033	
			824.7	836.5	848.3		824.7	836.5	848.3		824.7	836.5	848.3	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
26 / 1.4M	1	0	23.59	23.33	23.47	0	22.51	22.41	22.41	1	21.49	21.46	21.38	2
	1	2	23.56	23.31	23.41	0	22.45	22.25	22.21	1	21.24	21.34	21.20	2
	1	5	23.39	23.30	23.27	0	22.31	22.36	22.27	1	21.34	21.28	21.24	2
	3	0	23.30	23.26	23.19	0	22.39	22.39	22.40	1	21.12	21.23	21.25	2
	3	1	23.30	23.24	23.37	0	22.50	22.31	22.37	1	21.33	21.23	21.29	2
	3	3	23.44	23.25	22.29	0	22.45	22.35	22.11	1	21.35	21.41	21.18	2
	6	0	22.27	22.24	22.34	1	21.46	21.21	21.43	2	20.42	20.44	20.33	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26805	26915	27025		26805	26915	27025		26805	26915	27025	
			825.50	836.50	847.50		825.50	836.50	847.50		825.5	836.5	847.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
26 / 3M	1	0	23.69	23.59	23.49	0	22.53	22.61	22.46	1	21.34	21.35	21.48	2
	1	7	23.48	23.58	23.47	0	22.45	22.41	22.40	1	21.21	21.25	21.47	2
	1	14	23.41	23.53	23.39	0	22.29	22.32	22.12	1	21.24	21.20	21.37	2
	8	0	22.56	22.36	22.45	1	21.28	21.59	21.44	2	20.24	20.33	20.05	3
	8	3	22.41	22.31	22.44	1	21.36	21.47	21.30	2	20.12	20.18	20.22	3
	8	7	22.40	22.33	22.39	1	21.52	21.53	21.31	2	20.38	20.18	20.11	3
	15	0	22.52	22.54	22.44	1	21.37	21.52	21.32	2	20.19	20.35	20.30	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26815	26915	27015		26815	26915	27015		26815	26915	27015	
			826.50	836.50	846.50		826.50	836.50	846.50		826.5	836.5	846.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
26 / 5M	1	0	23.49	23.56	23.40	0	22.55	22.51	22.61	1	21.55	21.47	21.48	2
	1	12	23.41	23.55	23.30	0	22.49	22.36	22.46	1	21.54	21.34	21.31	2
	1	24	23.44	23.41	22.33	0	22.52	22.41	22.29	1	21.22	21.22	21.47	2
	12	0	22.42	22.54	22.32	1	21.42	21.48	21.60	2	20.34	20.45	20.32	3
	12	6	22.57	22.44	22.37	1	21.46	21.38	21.39	2	20.20	20.33	20.46	3
	12	13	22.53	22.52	22.35	1	21.51	21.33	21.41	2	20.40	20.32	20.19	3
	25	0	22.47	22.42	23.40	1	21.38	21.51	21.38	2	20.49	20.36	20.32	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26840	26915	26990		26840	26915	26990		26840	26915	26990	
			829	836.5	844		829	836.5	844		829	836.5	844	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
26 / 10M	1	0	23.54	23.52	23.54	0	22.39	22.47	22.41	1	21.37	21.44	21.48	2
	1	24	23.32	23.35	23.46	0	22.20	22.43	22.20	1	21.15	21.32	21.30	2
	1	49	23.33	23.27	23.45	0	22.38	22.41	22.23	1	21.26	21.11	21.44	2
	25	0	22.31	22.51	22.37	1	21.79	21.41	21.41	2	20.25	20.29	20.28	3
	25	12	22.33	22.44	22.38	1	21.30	21.44	21.33	2	20.14	20.25	20.12	3
	25	25	22.34	22.32	22.50	1	21.46	21.47	21.51	2	20.08	20.32	20.38	3
	50	0	22.50	22.21	22.29	1	22.41	21.43	21.31	2	20.20	20.17	20.38	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26865	26915	26965		26865	26915	26965		26865	26915	26965	
			831.5	836.5	841.5		831.5	836.5	841.5		831.5	836.5	841.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
26 / 15M	1	0	23.55	23.51	23.60	0	22.41	22.43	22.51	1	21.52	21.31	21.50	2
	1	37	23.54	23.51	23.59	0	22.26	22.39	22.27	1	21.45	21.19	21.32	2
	1	74	23.30	23.44	23.51	0	22.41	22.24	22.18	1	21.42	21.18	21.37	2
	36	0	22.44	22.39	22.41	1	21.34	21.37	21.26	2	20.40	20.23	20.20	3
	36	19	22.63	22.47	22.44	1	21.49	21.44	21.27	2	20.50	20.47	20.17	3
	36	39	22.42	22.47	22.48	1	21.41	21.55	21.33	2	20.22	20.22	20.38	3
	75	0	22.56	22.34	23.36	1	21.49	21.45	21.55	2	20.16	20.33	20.34	3

ERP POWER

WCDMA

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.96	23.86	23.87
Gain (dBi)	2.68	2.68	2.68
Isotropically Factor (dB)	2.15	2.15	2.15
Max ERP Power (dBm)	24.49	24.39	24.40

LTE Band 5

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20407	20525	20643		20407	20525	20643		20407	20525	20643	
5 / 1.4M	1	0	824.7 MHz	836.5 MHz	848.3 MHz	0	824.7 MHz	836.5 MHz	848.3 MHz	1	824.7 MHz	836.5 MHz	848.3 MHz	2
Gain (dBi)			23.50	23.68	23.45		22.51	22.39	22.26		21.37	21.47	21.30	
Isotropically Factor (dB)			2.68	2.68	2.68		2.68	2.68	2.68		2.68	2.68	2.68	
Max ERP Power (dBm)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
			24.03	24.21	23.98		23.04	22.92	22.79		21.90	22.00	21.83	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20415	20525	20635		20415	20525	20635		20415	20525	20635	
5 / 3M	1	0	825.5 MHz	836.5 MHz	847.5 MHz	0	825.5 MHz	836.5 MHz	847.5 MHz	1	825.5 MHz	836.5 MHz	847.5 MHz	2
Gain (dBi)			23.39	23.64	23.38		22.39	22.35	22.39		21.51	21.34	21.40	
Isotropically Factor (dB)			2.68	2.68	2.68		2.68	2.68	2.68		2.68	2.68	2.68	
Max ERP Power (dBm)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
			23.92	24.17	23.91		22.92	22.88	22.92		22.04	21.87	21.93	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20425	20525	20625		20425	20525	20625		20425	20525	20625	
5 / 5M	1	0	826.5 MHz	836.5 MHz	846.5 MHz	0	826.5 MHz	836.5 MHz	846.5 MHz	1	826.5 MHz	836.5 MHz	846.5 MHz	2
Gain (dBi)			23.45	23.49	23.52		22.42	22.44	22.30		21.33	21.28	21.34	
Isotropically Factor (dB)			2.68	2.68	2.68		2.68	2.68	2.68		2.68	2.68	2.68	
Max ERP Power (dBm)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
			23.98	24.02	24.05		22.95	22.97	22.83		21.86	21.81	21.87	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20450	20525	20600		20450	20525	20600		20450	20525	20600	
			829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz	
5 / 10M	1	0	23.65	23.76	23.63	0	22.56	22.38	22.65	1	21.43	21.34	21.42	2
Gain (dBi)			2.68	2.68	2.68		2.68	2.68	2.68		2.68	2.68	2.68	
Isotropically Factor (dB)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
Max ERP Power (dBm)			24.18	24.29	24.16		23.09	22.91	23.18		21.96	21.87	21.95	

LTE Band 26

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26797	26915	27033		26797	26915	27033		26797	26915	27033	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
26 / 1.4M	1	0	23.59	23.33	23.47	0	22.51	22.41	22.41	1	21.49	21.46	21.38	2
Gain (dBi)			2.92	2.92	2.92		2.92	2.92	2.92		2.92	2.92	2.92	
Isotropically Factor (dB)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
Max ERP Power (dBm)			24.36	24.10	24.24		23.28	23.18	23.18		22.26	22.23	22.15	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26805	26915	27025		26805	26915	27025		26805	26915	27025	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
26 / 3M	1	0	23.69	23.59	23.49	0	22.53	22.61	22.46	1	21.34	21.35	21.48	2
Gain (dBi)			2.92	2.92	2.92		2.92	2.92	2.92		2.92	2.92	2.92	
Isotropically Factor (dB)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
Max ERP Power (dBm)			24.46	24.36	24.26		23.30	23.38	23.23		22.11	22.12	22.25	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26815	26915	27015		26815	26915	27015		26815	26915	27015	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
26 / 5M	1	12	23.49	23.56	23.40	0	22.55	22.51	22.61	1	21.55	21.47	21.48	2
Gain (dBi)			2.92	2.92	2.92		2.92	2.92	2.92		2.92	2.92	2.92	
Isotropically Factor (dB)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
Max ERP Power (dBm)			24.26	24.33	24.17		23.32	23.28	23.38		22.32	22.24	22.25	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26840	26915	26990		26840	26915	26990		26840	26915	26990	
			829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz	
26 / 10M	1	0	23.54	23.52	23.54	0	22.39	22.47	22.41	1	21.37	21.44	21.48	2
Gain (dBi)			2.92	2.92	2.92		2.92	2.92	2.92		2.92	2.92	2.92	
Isotropically Factor (dB)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
Max ERP Power (dBm)			24.31	24.29	24.31		23.16	23.24	23.18		22.14	22.21	22.25	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			26865	26915	26965		26865	26915	26965		26865	26915	26965	
			831.5 MHz	836.5 MHz	841.5 MHz		831.5 MHz	836.5 MHz	841.5 MHz		831.5 MHz	836.5 MHz	841.5 MHz	
26 / 15M	1	0	23.55	23.51	23.60	0	22.41	22.43	22.51	1	21.52	21.31	21.50	2
Gain (dBi)			2.92	2.92	2.92		2.92	2.92	2.92		2.92	2.92	2.92	
Isotropically Factor (dB)			2.15	2.15	2.15		2.15	2.15	2.15		2.15	2.15	2.15	
Max ERP Power (dBm)			24.32	24.28	24.37		23.18	23.20	23.28		22.29	22.08	22.27	

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

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. The emission limit equal to -13dBm .

4.2.2 Test Procedure

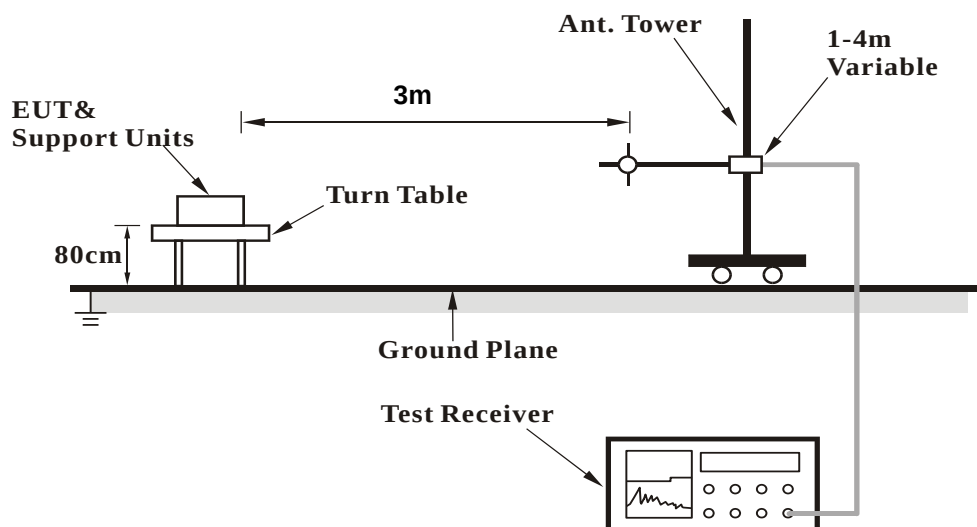
- a. The power was measured with Spectrum Analyzer.
- b. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. Follow ANSI 63.26 section 5.2.7 d), $\text{EIRP Value (dBm)} = \text{Read Value (dB}\mu\text{V/m)} - \text{Correction Factor @ 3m}$
- d. $\text{Correction Factor (dB) @ 3m} = 20\log(D) - 104.8$; where D is the measurement distance @3m $= -95.26\text{dB}$
- e. ERP power can be calculated form EIRP power by subtracting the gain of dipole, $\text{ERP power} = \text{EIRP power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

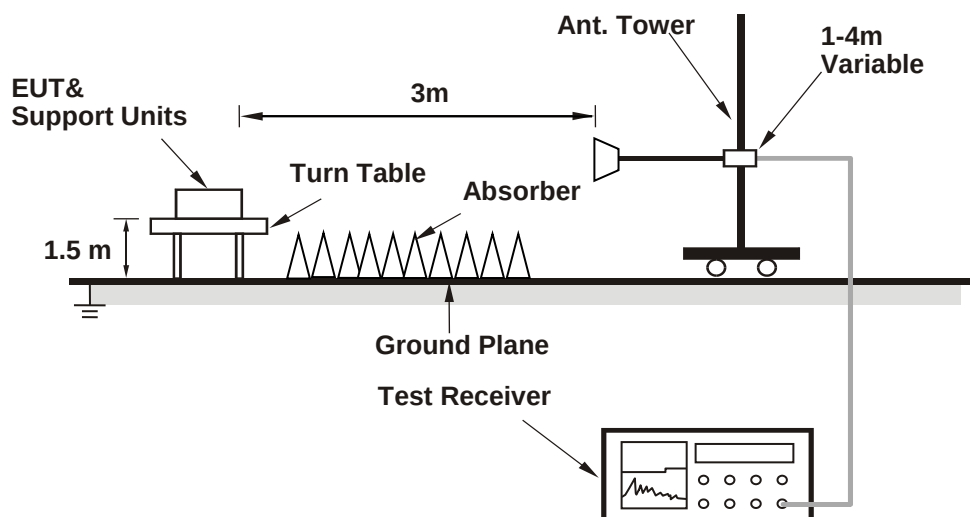
4.2.3 Deviation from Test Standard

No deviation.

4.2.4 Test Setup For Below 1GHz



For Above 1GHz:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

BELOW 1GHz

WCDMA:

Mode	TX channel 4132	Frequency Range	Below 1000 MHz
------	-----------------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	84.75	34.22	-95.26	-61.04	-13	-48.04
2	137.27	34.52	-95.26	-60.74	-13	-47.74
3	288.8	33.19	-95.26	-62.07	-13	-49.07
4	343.69	32.7	-95.26	-62.56	-13	-49.56
5	472.37	32.63	-95.26	-62.63	-13	-49.63
6	737.26	28.79	-95.26	-66.47	-13	-53.47
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	66.01	27.04	-95.26	-68.22	-13	-55.22
2	92.59	29.04	-95.26	-66.22	-13	-53.22
3	127.94	25.62	-95.26	-69.64	-13	-56.64
4	237.36	27.41	-95.26	-67.85	-13	-54.85
5	508.92	28.47	-95.26	-66.79	-13	-53.79
6	607.23	28.59	-95.26	-66.67	-13	-53.67

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 5: 10MHz

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
------	------------------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	84.58	34.84	-95.26	-60.42	-13	-47.42
2	136.56	35.12	-95.26	-60.14	-13	-47.14
3	288.92	33.26	-95.26	-62.00	-13	-49.00
4	343.21	33.66	-95.26	-61.60	-13	-48.60
5	471.68	33.56	-95.26	-61.70	-13	-48.70
6	736.46	29.75	-95.26	-65.51	-13	-52.51
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	66.11	30.35	-95.26	-64.91	-13	-51.91
2	91.72	33.43	-95.26	-61.83	-13	-48.83
3	128.8	28.82	-95.26	-66.44	-13	-53.44
4	238.03	31.49	-95.26	-63.77	-13	-50.77
5	509.8	32.73	-95.26	-62.53	-13	-49.53
6	606.83	32.38	-95.26	-62.88	-13	-49.88

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 26: 3MHz

Mode	TX channel 26805	Frequency Range	Below 1000 MHz
------	------------------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	83.92	34.14	-95.26	-61.12	-13	-48.12
2	135.05	31.43	-95.26	-63.83	-13	-50.83
3	289.19	28.96	-95.26	-66.30	-13	-53.30
4	345.93	29.25	-95.26	-66.01	-13	-53.01
5	469.71	30.07	-95.26	-65.19	-13	-52.19
6	736.6	27.72	-95.26	-67.54	-13	-54.54
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	66.55	29.34	-95.26	-65.92	-13	-52.92
2	91.23	30.29	-95.26	-64.97	-13	-51.97
3	130.08	26.13	-95.26	-69.13	-13	-56.13
4	237.29	27.21	-95.26	-68.05	-13	-55.05
5	509.38	29.92	-95.26	-65.34	-13	-52.34
6	607.13	29.8	-95.26	-65.46	-13	-52.46

Remarks:

- Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
- Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

ABOVE 1GHz

WCDMA:

Mode	TX channel 4132	Frequency Range	Above 1000 MHz
------	-----------------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1652.8	37.62	-95.26	-57.64	-13	-44.64
2	2479.2	44.14	-95.26	-51.12	-13	-38.12
3	3305.6	45.83	-95.26	-49.43	-13	-36.43
4	4132	46.69	-95.26	-48.57	-13	-35.57
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1652.8	37.3	-95.26	-57.96	-13	-44.96
2	2479.2	41.73	-95.26	-53.53	-13	-40.53
3	3305.6	46.38	-95.26	-48.88	-13	-35.88
4	4132	47.8	-95.26	-47.46	-13	-34.46

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 5: 10MHz

Mode	TX channel 20525	Frequency Range	Above 1000 MHz
------	------------------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1673	30.15	-95.26	-65.11	-13	-52.11
2	2509.5	37.83	-95.26	-57.43	-13	-44.43
3	3346	38.33	-95.26	-56.93	-13	-43.93
4	4182.5	39.88	-95.26	-55.38	-13	-42.38
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1673	36.21	-95.26	-59.05	-13	-46.05
2	2509.5	39.86	-95.26	-55.40	-13	-42.40
3	3346	45.8	-95.26	-49.46	-13	-36.46
4	4182.5	47.41	-95.26	-47.85	-13	-34.85

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 26: 3MHz

Mode	TX channel 26805	Frequency Range	Above 1000 MHz
------	------------------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1651	34.26	-95.26	-61.00	-13	-48.00
2	2476.5	37.18	-95.26	-58.08	-13	-45.08
3	3302	39.06	-95.26	-56.20	-13	-43.20
4	4127.5	40.42	-95.26	-54.84	-13	-41.84
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1651	35.32	-95.26	-59.94	-13	-46.94
2	2476.5	39.65	-95.26	-55.61	-13	-42.61
3	3302	46.39	-95.26	-48.87	-13	-35.87
4	4127.5	46.61	-95.26	-48.65	-13	-35.65

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

--- END ---