Partial FCC Test Report

(PART 24)

Report No.:	RFBHDI-WTW-P21060617-1
FCC ID:	2ATM8EG25G
Test Model:	EG25G MINPCIE
Received Date:	Jun. 21, 2021
Test Date:	Jun. 28 ~ Jul. 22, 2021
Issued Date:	Jul. 30, 2021
Applicant:	Hawkeye Tech Co., Ltd.
Address:	13F. No.736, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

Testing Laboratory
2021

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Release Control Record

Issue No.	Description	Date Issued
RFBHDI-WTW-P21060617-1	Original Release	Jul. 30, 2021

1 Certificate of Conformity

Product:	LTE Module
Brand:	Quectel
Test Model:	EG25G MINPCIE
Sample Status:	Engineering Sample
Applicant:	Hawkeye Tech Co., Ltd.
Test Date:	Jun. 28 ~ Jul. 22, 2021
Standards:	FCC Part 24, Subpart E

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 RF characteristics under the conditions specified in this report.

Prepared by : Lena Wang , **Date:** Jul. 30, 2021

Lena Wang / Specialist

Approved by : , **Date:** Jul. 30, 2021

Dylan Chiou / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	**Test Item**	**Result**	**Remarks**
2.1046 24.232	Effective Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1046 24.232(d)	Peak to Average Ratio	N/A	Refer to Note
2.1055 24.235	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
24.238	Band Edge Measurements	N/A	Refer to Note
2.1051 24.238	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -32.8 dB at 30.00 MHz.

Note:

1. This report is a partial report. Therefore, only test item of Effective Isotropic Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to SGS report no.: HR/2019/1001601 for module (Brand: Quectel, Model: EG25G MINPCIE)
2. 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	9 kHz ~ 30 MHz	3.0400 dB
	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 09, 2021	Apr. 08, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 10, 2021	Jun. 09, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 05, 2021	Jun. 04, 2022
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 17, 2021	Feb. 16, 2022
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 05, 2021	Jun. 04, 2022
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2021	May 31, 2022
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 02, 2021	Jun. 01, 2022
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Dec. 28, 2020	Dec. 27, 2021
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 09, 2020	Sep. 08, 2021
DC Power Supply Topward	33010D	807748	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 HwaYa Chamber 9.

3 General Information

3.1 General Description of EUT

Product	LTE Module		
Brand	Quectel		
Test Model	EG25G MINPCIE		
Status of EUT	Engineering Sample		
Power Supply Rating	48 Vdc (POE)		
Modulation Type	GSM/GPRS	GMSK	
	EDGE	GMSK, 8PSK	
	WCDMA	QPSK	
	LTE	QPSK, 16QAM	
Frequency Range	GSM/GPRS/EDGE	1850.2 ~ 1909.8 MHz	
	WCDMA	1852.4 ~ 1907.6 MHz	
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1909.3 MHz	
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1908.5 MHz	
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1907.5 MHz	
	LTE Band 2 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1905.0 MHz	
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1902.5 MHz	
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1900.0 MHz	
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1914.3 MHz	
	LTE Band 25 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1913.5 MHz	
	LTE Band 25 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1912.5 MHz	
	LTE Band 25 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1910.0 MHz	
	LTE Band 25 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1907.5 MHz	
	LTE Band 25 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1905.0 MHz	
Max. EIRP Power	GSM/GPRS	1047.129 mW (30.20dBm)	
	WCDMA	321.366 mW (25.07dBm)	
		QPSK	16QAM
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	229.615 mW (23.61dBm)	186.209 mW (22.17dBm)
	LTE Band 2 (Channel Bandwidth: 3 MHz)	218.273 mW (23.39dBm)	171.002 mW (22.33dBm)
	LTE Band 2 (Channel Bandwidth: 5 MHz)	224.388 mW (23.51dBm)	169.434 mW (22.29dBm)
	LTE Band 2 (Channel Bandwidth: 10 MHz)	218.776 mW (23.40dBm)	168.655 mW (22.27dBm)
	LTE Band 2 (Channel Bandwidth: 15 MHz)	215.774 mW (23.34dBm)	171.791 mW (22.35dBm)
	LTE Band 2 (Channel Bandwidth: 20 MHz)	219.280 mW (23.41dBm)	164.059 mW (22.15dBm)
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	271.019 mW (24.33dBm)	164.059 mW (23.11dBm)

	LTE Band 25 (Channel Bandwidth: 3 MHz)	271.019 mW (24.33dBm)	198.609 mW (22.98dBm)
	LTE Band 25 (Channel Bandwidth: 5 MHz)	255.270 mW (24.07dBm)	191.426 mW (22.82dBm)
	LTE Band 25 (Channel Bandwidth: 10 MHz)	254.683 mW (24.06dBm)	199.986 mW (23.01dBm)
	LTE Band 25 (Channel Bandwidth: 15 MHz)	277.332 mW (24.43dBm)	191.867 mW (22.83dBm)
	LTE Band 25 (Channel Bandwidth: 20 MHz)	266.073 mW (24.25dBm)	195.884 mW (22.92dBm)
Antenna Type	Dipole Antenna with 1.5 dBi gain		
Accessory Device	N/A		
Data Cable Supplied	N/A		

Note:

1. The EUT was installed in a specific End-product.

Product	Brand	Model	FCC ID
veeaHub	veeaHub	VHE10XXXXX (X=A-Z, 0-9, blank or "-")	2ARXKVHE10

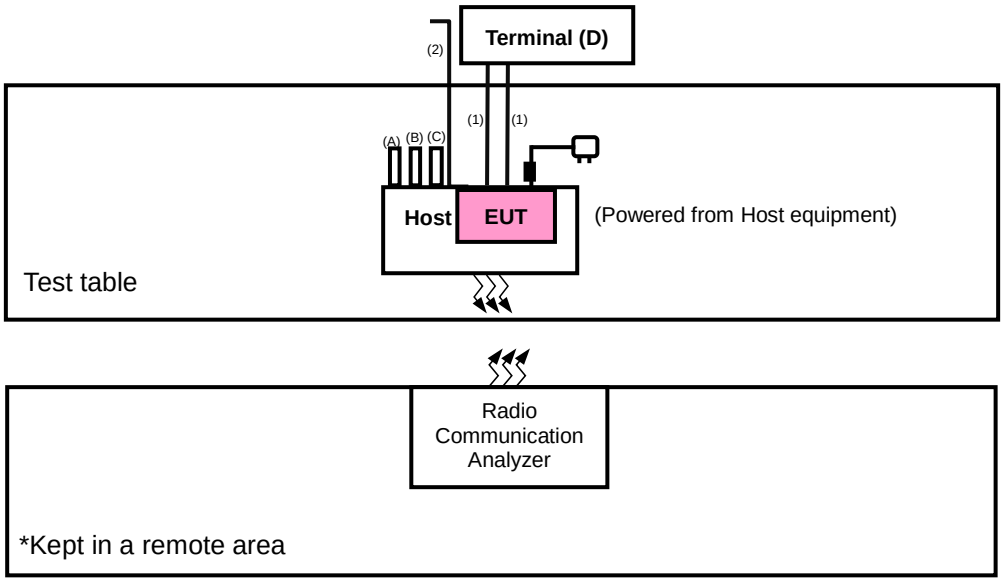
2. The End-product contains following accessory devices.

Product	Brand	Model	Description
AC Adapter	EDACPOWER ELEC.	EA1062SGR-480	I/P: 100-240 Vac, 50/60 Hz, 2.5 A O/P: 48 Vdc, 1.35 A 1.2m DC cable with 1 core

3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test> & <E.R.P. Test>



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.

No.	Product	Brand	Model No.	Serial No.	FCC ID
A	FLASH	HP	v250W	09	N/A
B	FLASH	HP	v250W	05	N/A
C	FLASH	HP	v250W	03	N/A
D	Terminal	N/A	N/A	N/A	N/A

No.	Signal Cable Description Of The Above Support Units
1.	LAN Cable: 1.5m
2.	RS232 to A Cable: 1.6m

Note:

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

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, antenna degree 90° and 180°, and antenna ports.
The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	Radiated Emission
GSM	X-axis
WCDMA	X-axis
LTE Band 2	X-axis
LTE Band 25	X-axis

GSM

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	512 to 810	512, 661, 810	GSM, EDGE
-	Radiated Emission	512 to 810	512, 661, 810	GSM, EDGE

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	Radiated Emission	9262 to 9538	9262, 9400, 9538	WCDMA

LTE Band 2

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation and RB configurations according to Module report worst maximum output power.
2. For radiated emission, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel for final testing.

LTE Band 25

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation and RB configurations according to Module report worst maximum output power.
2. For radiated emission, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel for final testing.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	26 deg. C, 58 % RH	120 Vac, 60 Hz	Rex Wang
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Rex Wang

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. 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 24
ANSI 63.26-2015

NOTE: 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
ANSI/TIA/EIA-603-E 2016

NOTE: 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 2 watts e.i.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

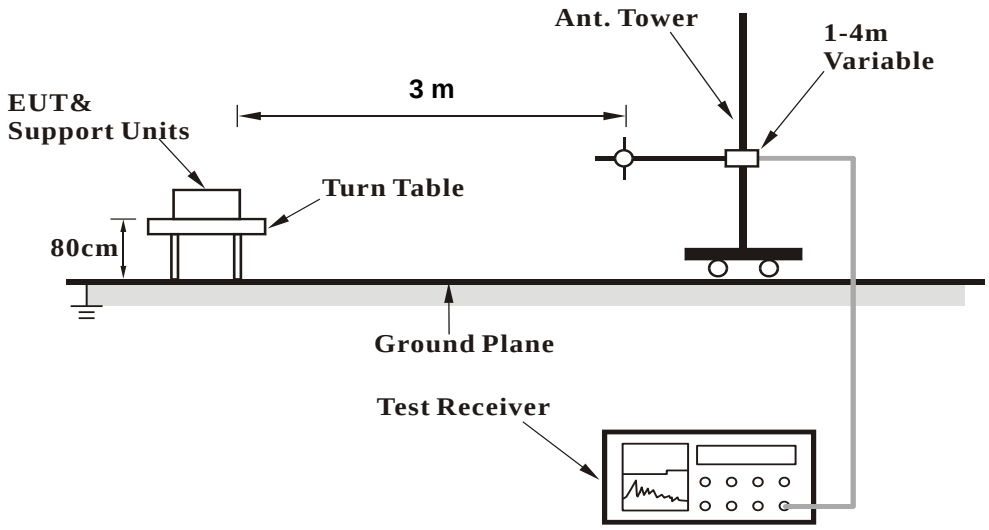
a. All measurements were done at low, middle and high operational frequency range. RBW is 1 MHz for GSM, GPRS & EDGE, 5 MHz for WCDMA, and 1.4 MHz、5 MHz、10 MHz、15 MHz、20 MHz for LTE mode, and VBW ≥ 3 x RBW.
b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G.
d. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

Conducted Power Measurement:

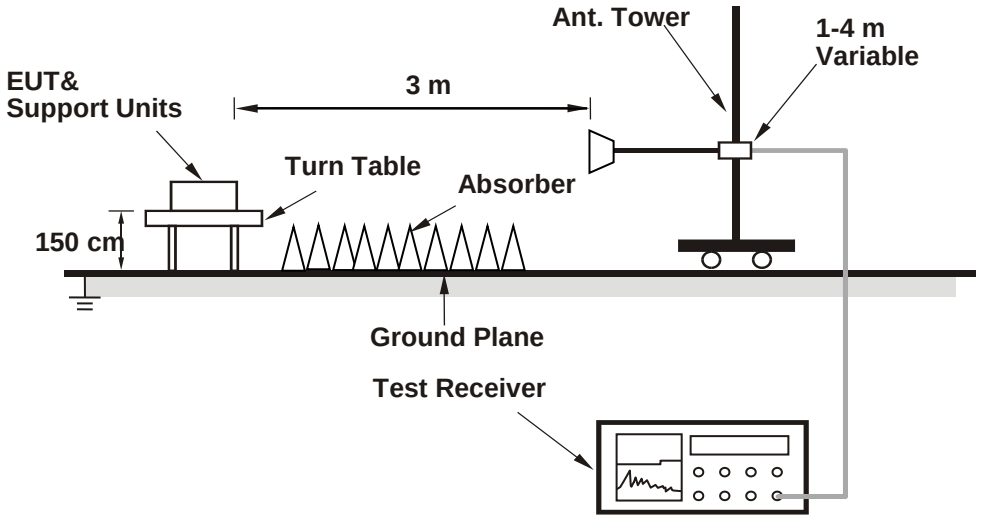
The EUT was set up for the maximum power with GSM, WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 Test Setup

EIRP / ERP Measurement:
<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

Conducted Power Measurement:

4.1.4 Test Results

Conducted Output Power (dBm)

Band	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GPRS (GMSK, 1Tx-slot)	28.70	28.56	28.46
EDGE (8PSK, 1Tx-slot)	27.87	21.80	27.82

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.55	23.44	23.57
HSDPA Subtest-1	22.68	22.61	22.63
HSUPA Subtest-1	21.82	21.75	21.74

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	18.92	19.89	21.27
		1	2	19.34	20.44	21.69
		1	5	19.38	21.20	**22.11**
		3	0	18.02	19.15	20.44
		3	1	18.16	19.42	20.41
		3	3	18.61	19.76	20.85
		6	0	18.05	19.58	20.46
	16QAM	1	0	17.19	18.45	20.02
		1	2	18.14	19.09	20.51
		1	5	18.25	19.60	**20.67**
		3	0	16.86	18.12	19.41
		3	1	17.37	18.53	19.32
		3	3	17.39	18.81	19.66
		6	0	16.92	18.58	19.32
BW	MCS Index	Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	18.99	19.56	21.29
		1	7	19.20	20.47	21.80
		1	14	19.48	20.96	**21.89**
		8	0	17.81	18.82	20.77
		8	3	18.03	19.50	20.67
		8	7	18.23	19.95	20.88
		15	0	18.24	19.21	20.62
	16QAM	1	0	17.25	18.33	20.03
		1	7	18.28	19.16	20.31
		1	14	18.46	19.71	**20.83**
		8	0	16.99	17.99	19.29
		8	3	17.22	18.49	19.52
		8	7	17.38	18.57	19.76
		15	0	17.23	18.56	19.33

LTE Band 2						
BW	MCS Index	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	18.81	19.80	21.42
		1	12	19.42	20.32	**22.01**
		1	24	19.73	21.08	21.75
		12	0	17.86	19.19	20.45
		12	6	18.35	19.51	20.70
		12	13	18.53	19.99	20.82
		25	0	17.90	19.47	20.44
	16QAM	1	0	17.39	18.39	20.18
		1	12	18.13	19.04	20.53
		1	24	18.41	19.64	**20.79**
		12	0	17.07	18.28	19.52
		12	6	17.37	18.23	19.60
		12	13	17.35	18.68	19.72
		25	0	17.07	18.41	19.51
BW	MCS Index	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	18.92	19.50	21.54
		1	24	19.39	20.45	21.81
		1	49	19.63	21.06	**21.90**
		25	0	17.93	19.01	20.71
		25	12	18.11	19.49	20.66
		25	25	18.47	19.82	20.75
		50	0	18.06	19.34	20.44
	16QAM	1	0	17.03	18.30	19.91
		1	24	18.23	19.11	20.43
		1	49	18.32	19.67	**20.77**
		25	0	16.97	18.11	19.44
		25	12	17.28	18.29	19.64
		25	25	17.30	18.71	19.77
		50	0	17.01	18.32	19.46

LTE Band 2						
BW	MCS Index	Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	18.76	19.85	21.41
		1	37	19.32	20.63	21.77
		1	74	19.53	21.21	**21.84**
		36	0	17.79	19.19	20.49
		36	19	18.36	19.32	20.45
		36	39	18.54	20.00	21.00
		75	0	18.04	19.59	20.49
	16QAM	1	0	17.06	18.49	20.12
		1	37	18.13	19.09	20.58
		1	74	18.45	19.73	**20.85**
		36	0	16.84	18.23	19.31
		36	19	17.09	18.44	19.72
		36	39	17.25	18.79	19.67
		75	0	17.02	18.56	19.37
BW	MCS Index	Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	18.80	19.69	21.41
		1	50	19.25	20.52	21.88
		1	99	19.55	21.03	**21.91**
		50	0	17.90	19.00	20.57
		50	25	18.20	19.52	20.60
		50	50	18.43	19.83	20.80
		100	0	18.07	19.40	20.60
	16QAM	1	0	17.23	18.30	20.01
		1	50	18.30	19.24	20.48
		1	99	18.29	19.79	**20.65**
		50	0	16.93	18.12	19.33
		50	25	17.22	18.35	19.52
		50	50	17.31	18.73	19.68
		100	0	17.12	18.50	19.36

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	19.39	20.98	22.23
		1	2	20.15	21.56	**22.83**
		1	5	20.29	22.42	21.67
		3	0	18.62	19.76	21.29
		3	1	18.68	20.17	21.36
		3	3	19.25	20.40	21.67
		6	0	18.99	20.28	21.63
	16QAM	1	0	18.05	19.27	20.36
		1	2	18.67	20.06	**21.61**
		1	5	19.55	20.34	20.89
		3	0	17.37	19.00	20.44
		3	1	17.89	19.13	20.52
		3	3	17.97	19.67	20.30
		6	0	17.71	19.42	20.34
BW	MCS Index	Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	19.44	20.89	22.07
		1	7	19.83	21.75	**22.83**
		1	14	20.36	22.67	21.65
		8	0	18.68	19.81	21.25
		8	3	18.63	20.44	21.35
		8	7	19.13	20.41	21.43
		15	0	19.05	20.34	21.62
	16QAM	1	0	18.08	19.48	20.30
		1	7	18.64	20.22	**21.48**
		1	14	19.49	20.29	20.81
		8	0	17.43	18.89	20.33
		8	3	17.90	19.26	20.58
		8	7	17.81	19.64	20.66
		15	0	17.74	19.29	20.61

LTE Band 25						
BW	MCS Index	Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	19.58	20.84	22.20
		1	12	19.87	21.79	**22.57**
		1	24	20.32	22.53	21.45
		12	0	18.64	19.91	21.41
		12	6	18.83	20.41	21.52
		12	13	19.19	20.47	21.75
		25	0	18.88	20.39	21.48
	16QAM	1	0	18.20	19.24	20.38
		1	12	18.79	20.25	**21.32**
		1	24	19.74	20.41	20.75
		12	0	17.38	18.87	20.31
		12	6	17.86	19.28	20.33
		12	13	17.85	19.47	20.38
		25	0	17.70	19.31	20.61
BW	MCS Index	Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	19.36	20.68	22.27
		1	24	20.11	21.73	22.55
		1	49	20.26	**22.56**	21.81
		25	0	18.53	19.87	21.34
		25	12	18.71	20.43	21.35
		25	25	19.09	20.59	21.54
		50	0	19.01	20.40	21.34
	16QAM	1	0	18.18	19.15	20.33
		1	24	18.78	20.09	**21.51**
		1	49	19.41	20.60	21.04
		25	0	17.39	19.08	20.41
		25	12	17.99	19.32	20.67
		25	25	17.85	19.68	20.40
		50	0	17.74	19.29	20.55

LTE Band 25						
BW	MCS Index	Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	19.23	20.74	22.09
		1	37	20.14	21.58	**22.93**
		1	74	20.42	22.38	21.77
		36	0	18.53	20.01	21.32
		36	19	18.79	20.49	21.35
		36	39	19.02	20.51	21.37
		75	0	18.95	20.08	21.49
	16QAM	1	0	18.23	19.14	20.45
		1	37	18.95	20.17	**21.33**
		1	74	19.63	20.61	21.09
		36	0	17.34	18.71	20.53
		36	19	17.91	19.16	20.51
		36	39	18.07	19.61	20.64
		75	0	17.52	19.37	20.38
BW	MCS Index	Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	19.43	20.84	22.23
		1	50	19.95	21.65	**22.75**
		1	99	20.37	22.48	21.61
		50	0	18.50	19.87	21.42
		50	25	18.83	20.31	21.54
		50	50	19.05	20.53	21.56
		100	0	18.87	20.25	21.46
	16QAM	1	0	18.05	19.28	20.33
		1	50	18.77	20.15	**21.42**
		1	99	19.61	20.45	20.92
		50	0	17.42	18.90	20.39
		50	25	17.82	19.13	20.52
		50	50	17.98	19.49	20.48
		100	0	17.68	19.22	20.41

EIRP Power (dBm)

Band	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GPRS (GMSK, 1Tx-slot)	**30.20**	30.06	29.96
EDGE (8PSK, 1Tx-slot)	29.37	23.30	29.32

*EIRP = Conducted + antenna gain (1.5dBi)

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	25.05	24.94	**25.07**
HSDPA Subtest-1	24.18	24.11	24.13
HSUPA Subtest-1	23.32	23.25	23.24

*EIRP = Conducted + antenna gain (1.5dBi)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	20.42	21.39	22.77
		1	2	20.84	21.94	23.19
		1	5	20.88	22.70	**23.61**
		3	0	19.52	20.65	21.94
		3	1	19.66	20.92	21.91
		3	3	20.11	21.26	22.35
		6	0	19.55	21.08	21.96
	16QAM	1	0	18.69	19.95	21.52
		1	2	19.64	20.59	22.01
		1	5	19.75	21.10	**22.17**
		3	0	18.36	19.62	20.91
		3	1	18.87	20.03	20.82
		3	3	18.89	20.31	21.16
		6	0	18.42	20.08	20.82
BW	MCS Index	Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	20.49	21.06	22.79
		1	7	20.70	21.97	23.30
		1	14	20.98	22.46	**23.39**
		8	0	19.31	20.32	22.27
		8	3	19.53	21.00	22.17
		8	7	19.73	21.45	22.38
		15	0	19.74	20.71	22.12
	16QAM	1	0	18.75	19.83	21.53
		1	7	19.78	20.66	21.81
		1	14	19.96	21.21	**22.33**
		8	0	18.49	19.49	20.79
		8	3	18.72	19.99	21.02
		8	7	18.88	20.07	21.26
		15	0	18.73	20.06	20.83

*EIRP = Conducted + antenna gain (1.5dBi)

LTE Band 2						
BW	MCS Index	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	20.31	21.30	22.92
		1	12	20.92	21.82	**23.51**
		1	24	21.23	22.58	23.25
		12	0	19.36	20.69	21.95
		12	6	19.85	21.01	22.20
		12	13	20.03	21.49	22.32
		25	0	19.40	20.97	21.94
	16QAM	1	0	18.89	19.89	21.68
		1	12	19.63	20.54	22.03
		1	24	19.91	21.14	**22.29**
		12	0	18.57	19.78	21.02
		12	6	18.87	19.73	21.10
		12	13	18.85	20.18	21.22
		25	0	18.57	19.91	21.01
BW	MCS Index	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	20.42	21.00	23.04
		1	24	20.89	21.95	23.31
		1	49	21.13	22.56	**23.40**
		25	0	19.43	20.51	22.21
		25	12	19.61	20.99	22.16
		25	25	19.97	21.32	22.25
		50	0	19.56	20.84	21.94
	16QAM	1	0	18.53	19.80	21.41
		1	24	19.73	20.61	21.93
		1	49	19.82	21.17	**22.27**
		25	0	18.47	19.61	20.94
		25	12	18.78	19.79	21.14
		25	25	18.80	20.21	21.27
		50	0	18.51	19.82	20.96

*EIRP = Conducted + antenna gain (1.5dBi)

LTE Band 2						
BW	**MCS Index**	**Channel**		**18675**	**18900**	**19125**
		Frequency (MHz)		**1857.5**	**1880**	**1902.5**
15M	QPSK	1	0	20.26	21.35	22.91
		1	37	20.82	22.13	23.27
		1	74	21.03	22.71	**23.34**
		36	0	19.29	20.69	21.99
		36	19	19.86	20.82	21.95
		36	39	20.04	21.50	22.50
		75	0	19.54	21.09	21.99
	16QAM	1	0	18.56	19.99	21.62
		1	37	19.63	20.59	22.08
		1	74	19.95	21.23	**22.35**
		36	0	18.34	19.73	20.81
		36	19	18.59	19.94	21.22
		36	39	18.75	20.29	21.17
		75	0	18.52	20.06	20.87
BW	**MCS Index**	**Channel**		**18700**	**18900**	**19100**
		Frequency (MHz)		**1860**	**1880**	**1900**
20M	QPSK	1	0	20.30	21.19	22.91
		1	50	20.75	22.02	23.38
		1	99	21.05	22.53	**23.41**
		50	0	19.40	20.50	22.07
		50	25	19.70	21.02	22.10
		50	50	19.93	21.33	22.30
		100	0	19.57	20.90	22.10
	16QAM	1	0	18.73	19.80	21.51
		1	50	19.80	20.74	21.98
		1	99	19.79	21.29	**22.15**
		50	0	18.43	19.62	20.83
		50	25	18.72	19.85	21.02
		50	50	18.81	20.23	21.18
		100	0	18.62	20.00	20.86

*EIRP = Conducted + antenna gain (1.5dBi)

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	20.89	22.48	23.73
		1	2	21.65	23.06	**24.33**
		1	5	21.79	23.92	23.17
		3	0	20.12	21.26	22.79
		3	1	20.18	21.67	22.86
		3	3	20.75	21.90	23.17
		6	0	20.49	21.78	23.13
	16QAM	1	0	19.55	20.77	21.86
		1	2	20.17	21.56	**23.11**
		1	5	21.05	21.84	22.39
		3	0	18.87	20.50	21.94
		3	1	19.39	20.63	22.02
		3	3	19.47	21.17	21.80
		6	0	19.21	20.92	21.84
BW	**MCS Index**	**Channel**		**26055**	**26365**	**26675**
		Frequency (MHz)		**1851.5**	**1882.5**	**1913.5**
3M	QPSK	1	0	20.94	22.39	23.57
		1	7	21.33	23.25	**24.33**
		1	14	21.86	24.17	23.15
		8	0	20.18	21.31	22.75
		8	3	20.13	21.94	22.85
		8	7	20.63	21.91	22.93
		15	0	20.55	21.84	23.12
	16QAM	1	0	19.58	20.98	21.80
		1	7	20.14	21.72	**22.98**
		1	14	20.99	21.79	22.31
		8	0	18.93	20.39	21.83
		8	3	19.40	20.76	22.08
		8	7	19.31	21.14	22.16
		15	0	19.24	20.79	22.11

*EIRP = Conducted + antenna gain (1.5dBi)

LTE Band 25						
BW	MCS Index	Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	21.08	22.34	23.70
		1	12	21.37	23.29	**24.07**
		1	24	21.82	24.03	22.95
		12	0	20.14	21.41	22.91
		12	6	20.33	21.91	23.02
		12	13	20.69	21.97	23.25
		25	0	20.38	21.89	22.98
	16QAM	1	0	19.70	20.74	21.88
		1	12	20.29	21.75	**22.82**
		1	24	21.24	21.91	22.25
		12	0	18.88	20.37	21.81
		12	6	19.36	20.78	21.83
		12	13	19.35	20.97	21.88
		25	0	19.20	20.81	22.11
BW	MCS Index	Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	20.86	22.18	23.77
		1	24	21.61	23.23	24.05
		1	49	21.76	**24.06**	23.31
		25	0	20.03	21.37	22.84
		25	12	20.21	21.93	22.85
		25	25	20.59	22.09	23.04
		50	0	20.51	21.90	22.84
	16QAM	1	0	19.68	20.65	21.83
		1	24	20.28	21.59	**23.01**
		1	49	20.91	22.10	22.54
		25	0	18.89	20.58	21.91
		25	12	19.49	20.82	22.17
		25	25	19.35	21.18	21.90
		50	0	19.24	20.79	22.05

*EIRP = Conducted + antenna gain (1.5dBi)

LTE Band 25						
BW	MCS Index	Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	20.73	22.24	23.59
		1	37	21.64	23.08	**24.43**
		1	74	21.92	23.88	23.27
		36	0	20.03	21.51	22.82
		36	19	20.29	21.99	22.85
		36	39	20.52	22.01	22.87
		75	0	20.45	21.58	22.99
	16QAM	1	0	19.73	20.64	21.95
		1	37	20.45	21.67	**22.83**
		1	74	21.13	22.11	22.59
		36	0	18.84	20.21	22.03
		36	19	19.41	20.66	22.01
		36	39	19.57	21.11	22.14
		75	0	19.02	20.87	21.88
BW	MCS Index	Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	20.93	22.34	23.73
		1	50	21.45	23.15	**24.25**
		1	99	21.87	23.98	23.11
		50	0	20.00	21.37	22.92
		50	25	20.33	21.81	23.04
		50	50	20.55	22.03	23.06
		100	0	20.37	21.75	22.96
	16QAM	1	0	19.55	20.78	21.83
		1	50	20.27	21.65	**22.92**
		1	99	21.11	21.95	22.42
		50	0	18.92	20.40	21.89
		50	25	19.32	20.63	22.02
		50	50	19.48	20.99	21.98
		100	0	19.18	20.72	21.91

*EIRP = Conducted + antenna gain (1.5dBi)

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 is equal to -13 dBm.

4.2.2 Test Procedure

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G.
c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

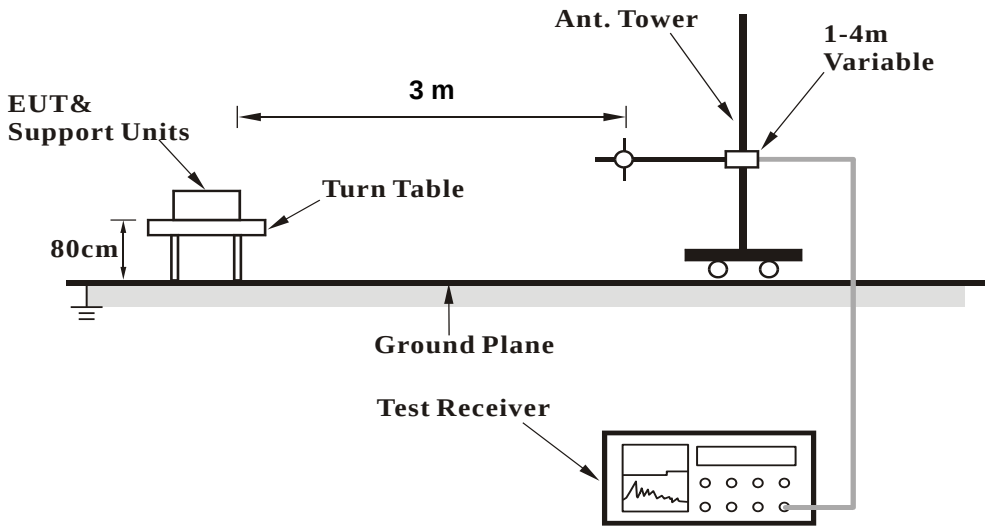
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.2.3 Deviation from Test Standard

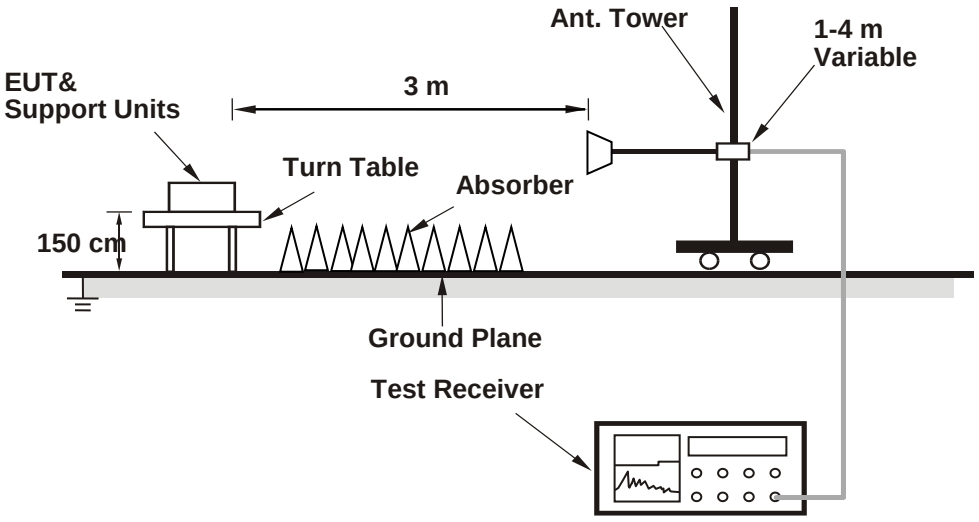
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.2.5 Test Results

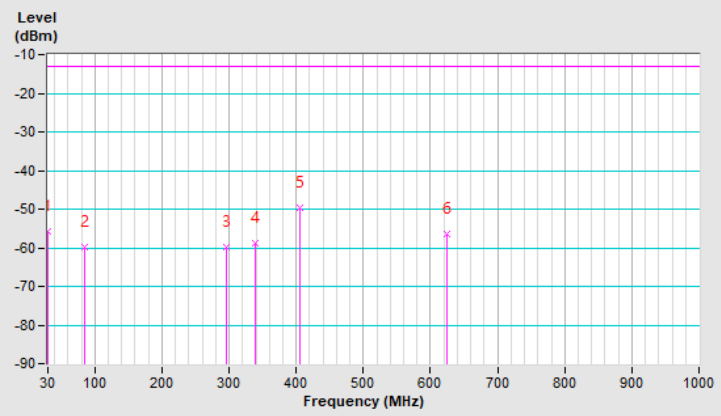
Below 1GHz

RF Mode	TX PCS 1900	Channel	CH 512：1850.2 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-55.7	-13.0	-42.7	1.50 H	48	59.5	-115.2
2	85.29	-59.8	-13.0	-46.8	1.00 H	53	59.4	-119.2
3	296.75	-59.8	-13.0	-46.8	1.50 H	283	53.5	-113.2
4	338.46	-58.9	-13.0	-45.9	1.25 H	263	53.1	-112.0
5	406.36	-49.7	-13.0	-36.7	2.00 H	266	60.9	-110.5
6	624.61	-56.5	-13.0	-43.5	1.00 H	199	49.1	-105.6

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

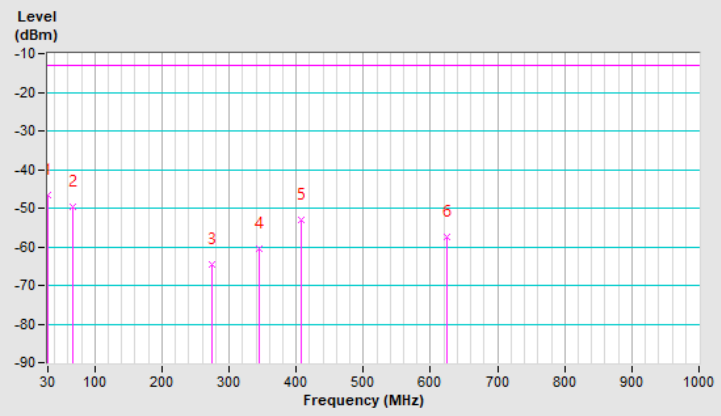


RF Mode	TX PCS 1900	Channel	CH 512：1850.2 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-46.8	-13.0	-33.8	2.00 V	89	68.5	-115.2
2	66.86	-49.8	-13.0	-36.8	1.50 V	172	65.8	-115.6
3	275.41	-64.5	-13.0	-51.5	1.00 V	155	49.3	-113.8
4	345.25	-60.6	-13.0	-47.6	1.00 V	334	51.4	-112.0
5	407.33	-53.0	-13.0	-40.0	1.25 V	348	57.5	-110.5
6	624.61	-57.4	-13.0	-44.4	1.00 V	258	48.2	-105.6

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

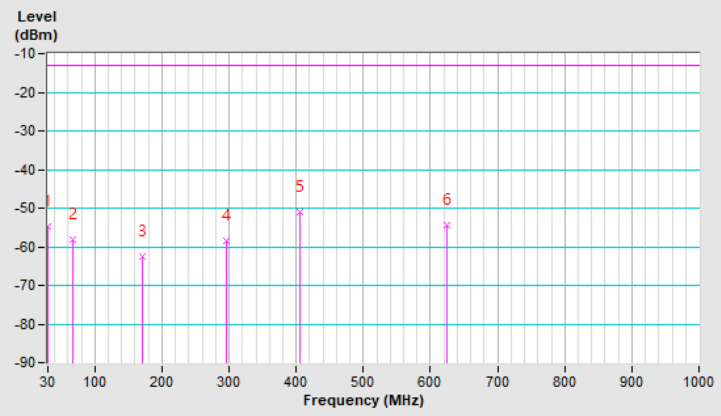


RF Mode	TX WCDMA Band II	Channel	CH 9538：1907.6 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-54.6	-13.0	-41.6	1.50 H	67	60.6	-115.2
2	66.86	-58.0	-13.0	-45.0	1.00 H	50	57.6	-115.6
3	171.62	-62.7	-13.0	-49.7	1.00 H	261	51.5	-114.1
4	295.78	-58.5	-13.0	-45.5	1.50 H	274	54.8	-113.3
5	406.36	-50.9	-13.0	-37.9	2.00 H	256	59.6	-110.5
6	624.61	-54.4	-13.0	-41.4	1.00 H	0	51.3	-105.6

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

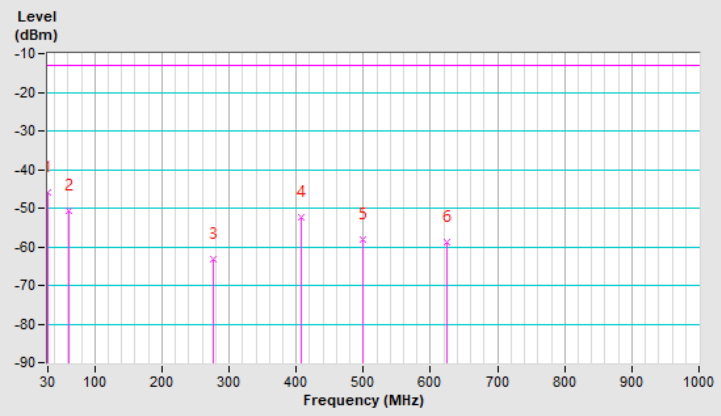


RF Mode	TX WCDMA Band II	Channel	CH 9538：1907.6 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	**30.00**	**-45.8**	**-13.0**	**-32.8**	**2.00 V**	**111**	**69.4**	**-115.2**
2	62.01	-50.7	-13.0	-37.7	1.50 V	79	64.4	-115.1
3	277.35	-63.2	-13.0	-50.2	1.00 V	196	50.5	-113.7
4	408.30	-52.3	-13.0	-39.3	1.00 V	342	58.2	-110.5
5	499.48	-58.2	-13.0	-45.2	1.25 V	313	50.2	-108.5
6	624.61	-58.8	-13.0	-45.8	1.00 V	249	46.9	-105.6

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

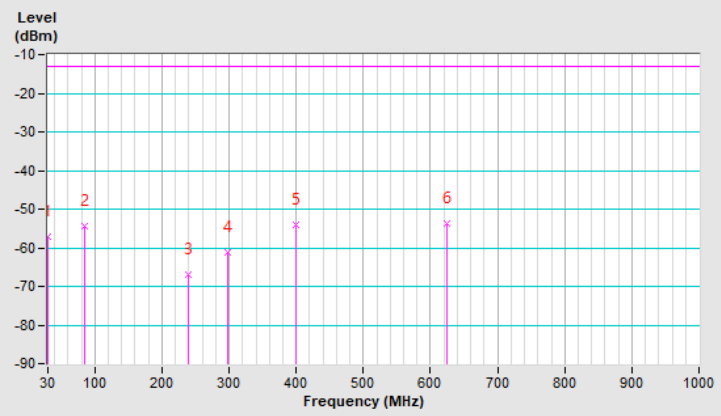


RF Mode	TX LTE Band II-5MHz	Channel	CH 18625：1852.5 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-57.1	-13.0	-44.1	1.50 H	102	58.1	-115.2
2	85.29	-54.5	-13.0	-41.5	1.25 H	225	64.8	-119.2
3	239.52	-67.1	-13.0	-54.1	1.00 H	112	48.1	-115.2
4	297.72	-61.2	-13.0	-48.2	1.00 H	102	52.0	-113.2
5	399.57	-54.0	-13.0	-41.0	2.00 H	212	56.6	-110.7
6	624.61	-53.7	-13.0	-40.7	1.00 H	115	51.9	-105.6

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

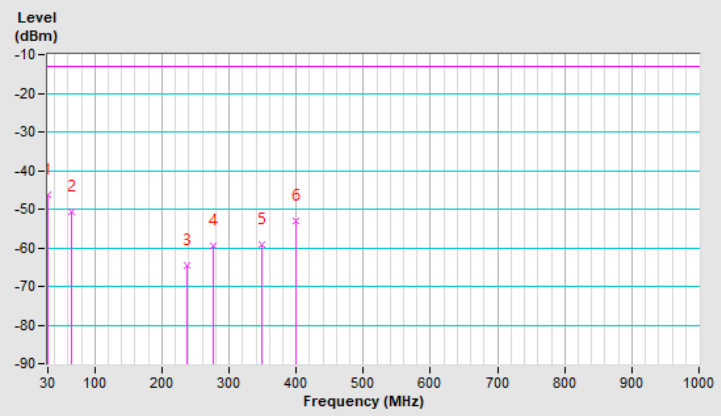


RF Mode	TX LTE Band II-5MHz	Channel	CH 18625：1852.5 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-46.3	-13.0	-33.3	1.50 V	102	68.9	-115.2
2	65.89	-50.6	-13.0	-37.6	1.50 V	200	65.0	-115.6
3	236.61	-64.7	-13.0	-51.7	2.00 V	198	50.6	-115.3
4	277.35	-59.7	-13.0	-46.7	1.00 V	140	54.1	-113.7
5	349.13	-59.2	-13.0	-46.2	1.25 V	154	52.8	-112.0
6	399.57	-53.2	-13.0	-40.2	1.00 V	102	57.5	-110.7

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

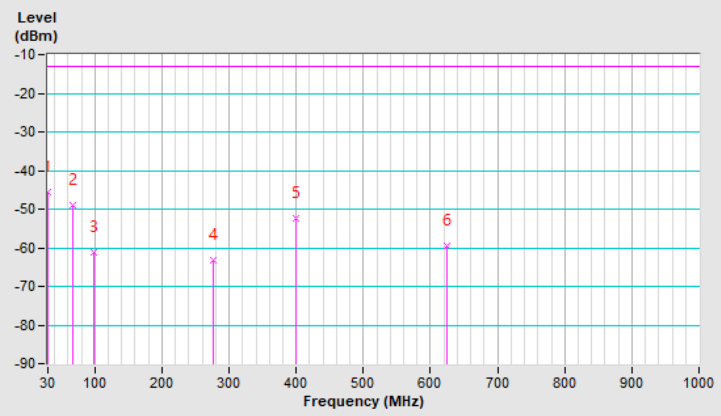


RF Mode	TX LTE Band XXV-5MHz	Channel	CH 26365：1882.5 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	**30.00**	**-45.8**	**-13.0**	**-32.8**	**2.00 H**	**87**	**69.5**	**-115.2**
2	66.86	-49.0	-13.0	-36.0	2.00 H	150	66.6	-115.6
3	98.87	-61.2	-13.0	-48.2	1.00 H	140	57.0	-118.2
4	276.38	-63.1	-13.0	-50.1	1.50 H	181	50.7	-113.8
5	399.57	-52.3	-13.0	-39.3	1.25 H	356	58.4	-110.7
6	624.61	-59.4	-13.0	-46.4	1.00 H	261	46.3	-105.6

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

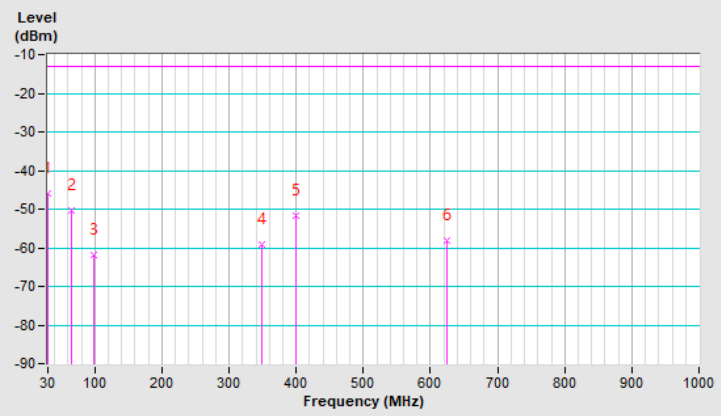


RF Mode	TX LTE Band XXV-5MHz	Channel	CH 26365：1882.5 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-45.9	-13.0	-32.9	1.25 V	5	69.3	-115.2
2	65.89	-50.2	-13.0	-37.2	1.00 V	202	65.3	-115.6
3	98.87	-61.9	-13.0	-48.9	1.00 V	264	56.3	-118.2
4	348.16	-59.1	-13.0	-46.1	1.50 V	332	52.9	-112.0
5	400.54	-51.7	-13.0	-38.7	1.00 V	0	58.9	-110.6
6	624.61	-58.2	-13.0	-45.2	2.00 V	253	47.4	-105.6

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



Above 1GHz

RF Mode	TX PCS 1900	Channel	CH 512：1850.2 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3700.40	-52.1	-13.0	-39.1	3.84 H	355	44.1	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3700.40	-52.7	-13.0	-39.7	1.04 V	138	43.5	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX PCS 1900	Channel	CH 661：1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.2	-13.0	-39.2	3.87 H	353	44.0	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.8	-13.0	-39.8	1.00 V	155	43.4	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX PCS 1900	Channel	CH 810：1909.8 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3819.60	-52.5	-13.0	-39.5	3.91 H	358	43.6	-96.1
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3819.60	-52.3	-13.0	-39.3	1.03 V	163	43.8	-96.1

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX WCDMA Band II	Channel	CH 9262：1852.4 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3704.80	-51.3	-13.0	-38.3	1.25 H	243	44.9	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3704.80	-50.7	-13.0	-37.7	1.66 V	49	45.5	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX WCDMA Band II	Channel	CH 9400：1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.9	-13.0	-37.9	1.22 H	240	45.3	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.5	-13.0	-37.5	1.68 V	43	45.7	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX WCDMA Band II	Channel	CH 9538：1907.6 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.20	-50.7	-13.0	-37.7	1.27 H	245	45.4	-96.1
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.20	-50.4	-13.0	-37.4	1.67 V	44	45.7	-96.1

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-1.4MHz	Channel	CH 18607：1850.7 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-54.2	-13.0	-41.2	1.66 H	132	42.0	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-54.1	-13.0	-41.1	2.44 V	196	42.1	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-1.4MHz	Channel	CH 18900：1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-53.9	-13.0	-40.9	1.62 H	138	42.3	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-54.0	-13.0	-41.0	2.45 V	201	42.2	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-1.4MHz	Channel	CH 19193：1909.3 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-54.4	-13.0	-41.4	1.67 H	124	41.7	-96.1
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-54.1	-13.0	-41.1	2.41 V	183	42.0	-96.1

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-5MHz	Channel	CH 18625：1852.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-53.1	-13.0	-40.1	1.65 H	139	43.1	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-54.1	-13.0	-41.1	2.43 V	185	42.1	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-5MHz	Channel	CH 18900：1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-54.3	-13.0	-41.3	1.59 H	132	41.9	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-54.1	-13.0	-41.1	2.32 V	193	42.1	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-5MHz	Channel	CH 19175：1907.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-53.8	-13.0	-40.8	1.74 H	141	42.3	-96.1
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-54.4	-13.0	-41.4	2.47 V	182	41.7	-96.1

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-20MHz	Channel	CH 18700：1860 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-54.7	-13.0	-41.7	1.65 H	136	41.5	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-53.7	-13.0	-40.7	2.40 V	189	42.5	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-20MHz	Channel	CH 18900：1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-54.1	-13.0	-41.1	1.69 H	144	42.1	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-53.6	-13.0	-40.6	2.41 V	196	42.6	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-20MHz	Channel	CH 19100：1900 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-53.8	-13.0	-40.8	1.65 H	138	42.4	-96.1
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-65.7	-13.0	-52.7	2.38 V	179	42.1	-107.8

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-1.4MHz	Channel	CH 26047：1850.7 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-50.0	-13.0	-37.0	1.08 H	57	46.2	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-51.4	-13.0	-38.4	1.66 V	54	44.8	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-1.4MHz	Channel	CH 26365：1882.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-50.1	-13.0	-37.1	1.10 H	59	46.0	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-50.0	-13.0	-37.0	1.55 V	58	46.1	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-1.4MHz	Channel	CH 26683：1914.3 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3828.60	-50.0	-13.0	-37.0	1.05 H	57	46.1	-96.1
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3828.60	-50.2	-13.0	-37.2	1.59 V	51	45.9	-96.1

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-5MHz	Channel	CH 26065：1852.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-50.1	-13.0	-37.1	1.02 H	63	46.1	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-50.3	-13.0	-37.3	1.63 V	55	45.9	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-5MHz	Channel	CH 26365：1882.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	**3765.00**	**-49.8**	**-13.0**	**-36.8**	**1.04 H**	**57**	**46.4**	**-96.2**
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-50.1	-13.0	-37.1	1.65 V	53	46.0	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-5MHz	Channel	CH 26665：1912.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3825.00	-49.8	-13.0	-36.8	1.05 H	59	46.2	-96.1
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3825.00	-50.5	-13.0	-37.5	1.67 V	50	45.6	-96.1

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-20MHz	Channel	CH 26140：1860 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-50.7	-13.0	-37.7	1.03 H	71	45.5	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-50.4	-13.0	-37.4	1.66 V	55	45.8	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-20MHz	Channel	CH 26365：1882.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-50.5	-13.0	-37.5	1.07 H	59	45.7	-96.2
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3765.00	-50.1	-13.0	-37.1	1.68 V	62	46.0	-96.2

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band XXV-20MHz	Channel	CH 26590：1905 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3810.00	-50.5	-13.0	-37.5	1.00 H	63	45.6	-96.1
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3810.00	-50.2	-13.0	-37.2	1.60 V	53	46.0	-96.1

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

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