Partial FCC Test Report
(Part 90 – LTE B14/B26)

Report No.: RFBDTL-WTW-P21060469-7

FCC ID: VUI-DAV001

Test Model: AG521R-NA

Received Date: Feb. 15, 2022

Test Date: Mar. 26 ~ Apr. 16, 2022

Issued Date: May 19, 2022

Applicant: PEGATRON CORPORATION

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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. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / Designation Number: 281270 / TW0032

Testing Laboratory
2021

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Release Control Record

Issue No.	Description	Date Issued
RFBDTL-WTW-P21060469-7	Original release	May 19, 2022

1 Certificate of Conformity

Product: LTE Module

Brand: Quectel

Test Model: AG521R-NA

Sample Status: PVT

Applicant: PEGATRON CORPORATION

Test Date: Mar. 26 ~ Apr. 16, 2022

Standards: FCC Part 90, Subpart S, R

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 : Celine Chou , **Date:** May 19, 2022

Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** May 19, 2022

Jeremy Lin / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 90 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 90.635 (b)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1055 90.213	Frequency Stability	N/A	Refer to Note
2.1049 90.209	Occupied Bandwidth	N/A	Refer to Note
90.691	Emission Mask	N/A	Refer to Note
2.1051 90.691	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 90.691	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -11.78dB at 1586.00MHz.

Note:

1. This report is a partial report, only test item of Effective Radiated Power and Radiated Emissions were performed for this report. Other testing data please refer to MRT Technology (Suzhou) Co., Ltd. report no.: 2101RSU050-U7 V01 and 2101RSU050-U8 V01for module (Brand: Quectel, Model: AG521R-NA).
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	9kHz ~ 30MHz	3.00 dB
	30MHz ~ 200MHz	2.91 dB
	200MHz ~1000MHz	2.93 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.76 dB
	18GHz ~ 40GHz	1.77 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038B	MY60180018	Feb. 18, 2022	Feb. 17, 2023
Spectrum Analyzer KEYSIGHT	N9020B	MY60110513	Dec. 24, 2021	Dec. 23, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-1214	Oct. 27, 2021	Oct. 26, 2022
HORN Antenna RF SPIN	DRH18-E	210101A18E	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	9170-1049	Nov. 14, 2021	Nov. 13, 2022
Loop Antenna EMCI	EM-6879	269	Sep. 16, 2021	Sep. 15, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC330N	980798	Jan. 17, 2022	Jan. 16, 2023
Preamplifier EMCI	EMC118A45SE	980809	Dec. 30, 2021	Dec. 29, 2022
Preamplifier EMCI	EMC184045SE	980786	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC104-SM-SM-(9000+3000+1000)	201244+ 201232+ 210103	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMCCFD400-NM-NM-(9000+3000+500)	201251+ 201249+ 201248	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC101G-KM-KM-(5000+3000+2000)	201261+201258+201255	Jan. 17, 2022	Jan. 16, 2023
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFA-515BSN	NA	NA	NA
Turn Table Max-Full	MFT-201SS	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208676	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
DC Power Supply Keysight	U8002A	MY56330015	NA	NA
Spectrum Analyzer ROHDE & SCHWARZ	FSV40	100979	Mar. 29, 2021	Mar. 28, 2022
			Mar. 25, 2022	Mar. 24, 2023
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Dec. 24, 2021	Dec. 23, 2022

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 WM Chamber 9.

3 General Information

3.1 General Description of EUT

Product	LTE Module			
Brand	Quectel			
Test Model	AG521R-NA			
Sample Status	PVT			
Power Supply Rating	3.3-4.3Vdc, Typical 3.8Vdc			
Modulation Type	QPSK, 16QAM, 64QAM			
Operating Frequency	LTE Band 14 (Channel Bandwidth 5MHz)	790.5MHz ~ 795.5MHz		
	LTE Band 14 (Channel Bandwidth 10MHz)	793.0MHz		
	LTE Band 26 (Channel Bandwidth 1.4MHz)	814.7MHz ~ 823.3MHz		
	LTE Band 26 (Channel Bandwidth 3MHz)	815.5MHz ~ 822.5MHz		
	LTE Band 26 (Channel Bandwidth 5MHz)	816.5MHz ~ 821.5MHz		
	LTE Band 26 (Channel Bandwidth 10MHz)	819.0MHz		
Max. ERP Power (EUT + Antenna 1 (Main Source))		QPSK	16QAM	64QAM
	LTE Band 14 (Channel Bandwidth 5MHz)	127.644mW (21.06dBm)	101.859mW (20.08dBm)	81.283mW (19.10dBm)
	LTE Band 14 (Channel Bandwidth 10MHz)	132.130mW (21.21dBm)	102.329mW (20.10dBm)	82.035mW (19.14dBm)
	LTE Band 26 (Channel Bandwidth 1.4MHz)	165.959mW (22.20dBm)	136.458mW (21.35dBm)	111.429mW (20.47dBm)
	LTE Band 26 (Channel Bandwidth 3MHz)	167.494mW (22.24dBm)	136.773mW (21.36dBm)	108.893mW (20.37dBm)
	LTE Band 26 (Channel Bandwidth 5MHz)	164.816mW (22.17dBm)	135.207mW (21.31dBm)	106.660mW (20.28dBm)
	LTE Band 26 (Channel Bandwidth 10MHz)	172.982mW (22.38dBm)	133.352mW (21.25dBm)	102.094mW (20.09dBm)
Max. ERP Power (EUT + Antenna 2 (2nd Source))		QPSK	16QAM	64QAM
	LTE Band 14 (Channel Bandwidth 5MHz)	135.519mW (21.32dBm)	111.944mW (20.49dBm)	87.498mW (19.42dBm)
	LTE Band 14 (Channel Bandwidth 10MHz)	140.605mW (21.48dBm)	109.901mW (20.41dBm)	84.918mW (19.29dBm)
	LTE Band 26 (Channel Bandwidth 1.4MHz)	168.267mW (22.26dBm)	139.637mW (21.45dBm)	114.551mW (20.59dBm)
	LTE Band 26 (Channel Bandwidth 3MHz)	170.608mW (22.32dBm)	137.088mW (21.37dBm)	110.662mW (20.44dBm)
	LTE Band 26 (Channel Bandwidth 5MHz)	170.216mW (22.31dBm)	133.352mW (21.25dBm)	105.682mW (20.24dBm)
	LTE Band 26 (Channel Bandwidth 10MHz)	174.181mW (22.41dBm)	132.739mW (21.23dBm)	109.648mW (20.40dBm)

		QPSK	16QAM	64QAM
Max. ERP Power (EUT + Antenna 3)	LTE Band 14 (Channel Bandwidth 5MHz)	120.781mW (20.82dBm)	94.624mW (19.76dBm)	78.705mW (18.96dBm)
	LTE Band 14 (Channel Bandwidth 10MHz)	123.027mW (20.90dBm)	93.972mW (19.73dBm)	73.961mW (18.69dBm)
	LTE Band 26 (Channel Bandwidth 1.4MHz)	146.218mW (21.65dBm)	119.399mW (20.77dBm)	92.257mW (19.65dBm)
	LTE Band 26 (Channel Bandwidth 3MHz)	143.219mW (21.56dBm)	117.761mW (20.71dBm)	97.499mW (19.89dBm)
	LTE Band 26 (Channel Bandwidth 5MHz)	144.212mW (21.59dBm)	110.917mW (20.45dBm)	89.536mW (19.52dBm)
	LTE Band 26 (Channel Bandwidth 10MHz)	148.594mW (21.72dBm)	114.025mW (20.57dBm)	91.833mW (19.63dBm)
Antenna Type	Refer to note			
Antenna Connector	Refer to note			
Accessory Device	NA			
Cable Supplied	NA			

Note:

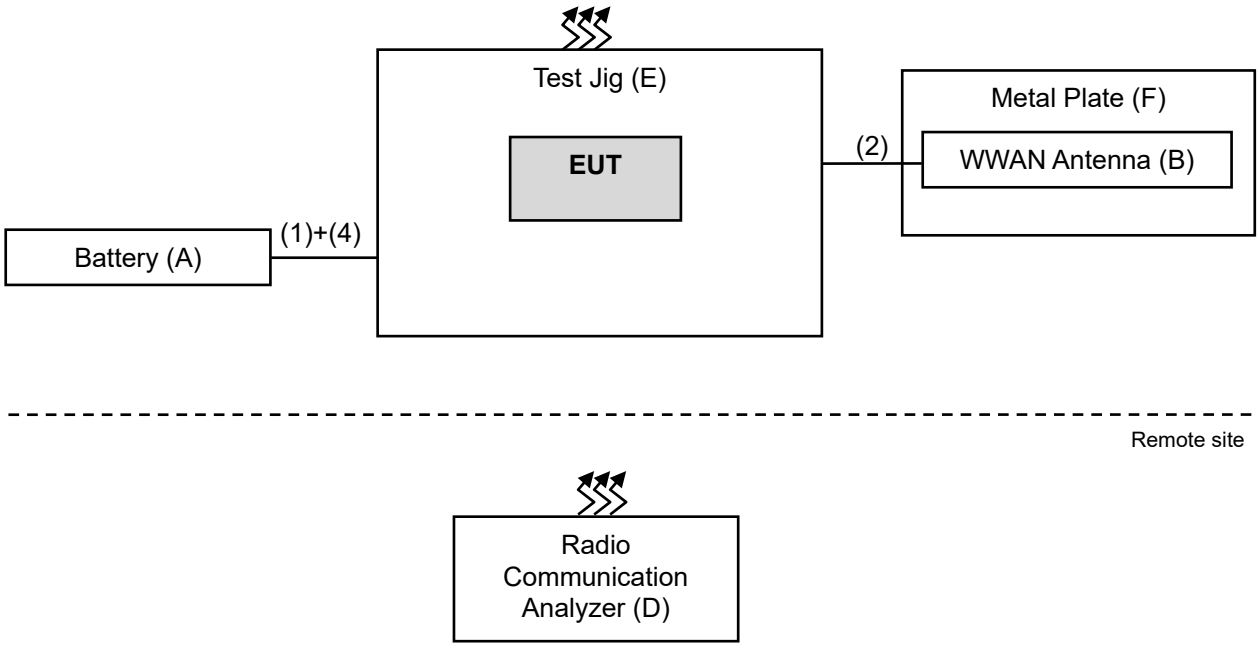
1. The differences compared with the original report are added antennas. Only test item of Effective Radiated Power and Radiated Emissions were performed for this report. Other testing data please refer to MRT Technology (Suzhou) Co., Ltd. report no.: 2101RSU050-U7 V01 and 2101RSU050-U8 for module (Brand: Quectel, Model: AG521R-NA).
2. The antenna information for new antenna is listed as below.

Type	Connector	Ant. No.		Gain (dBi)										
				LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B13	LTE B14	LTE B25	LTE B26	LTE B66	LTE B71
Multi-Band Monopole	Fakra	Antenna 1 (Main Source)	85004262 LTE_Primary	**4.22**	2.47	**3.16**	**4.47**	**2.78**	**2.94**	**3.08**	**4.22**	**3.16**	2.47	**2.78**
			85004262 LTE_Secondary	3.50	**3.31**	2.39	3.80	1.86	2.02	2.06	3.50	2.39	**3.31**	1.87
		Antenna 2 (2nd Source)	85004262 LTE_Primary	**4.22**	2.47	**3.16**	**4.47**	**2.78**	**2.94**	**3.08**	**4.22**	**3.16**	2.47	**2.78**
			85004262 LTE_Secondary	3.50	**3.31**	2.39	3.80	1.86	2.02	2.06	3.50	2.39	**3.31**	1.87
		Antenna 3	85004261 LTE/GNSS_Primary	**4.22**	2.47	**3.16**	**4.47**	**2.78**	**2.94**	**3.08**	**4.22**	**3.16**	2.47	**2.78**
			85004261 LTE/GNSS_Secondary	3.50	**3.31**	2.39	3.80	1.86	2.02	2.06	3.50	2.39	**3.31**	1.87

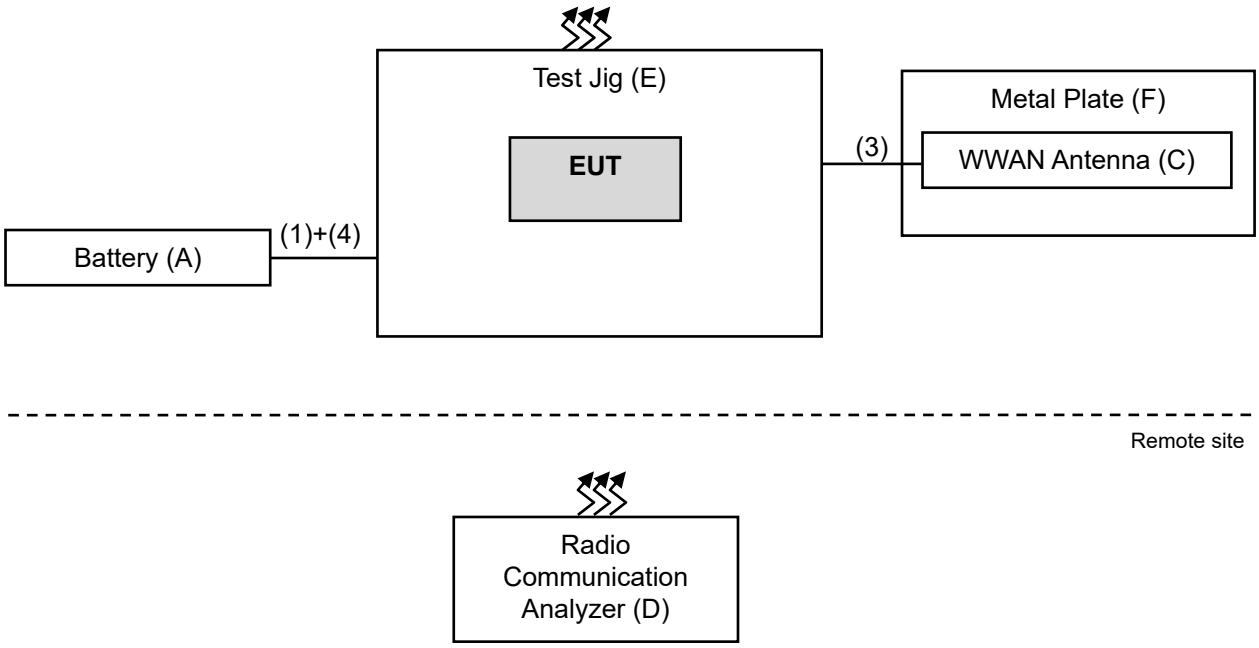
* Antenna 2 was provided by the manufacturer for verified test.
* max. gain for each band was chosen to final test.
* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Configuration of System under Test

EUT + Antenna 1 (Main Source) and EUT + Antenna 2 (2nd Source)



EUT + Antenna 3



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.	Battery	YUASA	75D23R-CMF II	NA	NA	-
B.	WWAN Antenna	Continental	85004262	NA	NA	Provided by client
C.	WWAN Antenna	Continental	85004261	NA	NA	Provided by client
D.	Radio Communication Analyzer	Anritsu	MT8821C	6261806803	NA	-
E.	Test Jig	gm	84945296C	NA	NA	Provided by client
F.	Metal Plate	NA	NA	NA	NA	Provided by client

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item D acted as a communication partner to transfer data.

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Power cable	1	2	N	0	Provided by client 2M (With Power Supply 0.85M Cable, 0.3M Cable, 1.8M Cable)
2.	Rosenberger Harness_TANG LTE	2	2.35	N	0	Provided by client
3.	Rosenberger Harness_TANG LTE/GNSS	1	2.35	N	0	Provided by client
4.	Power cable	1	2	N	0	-

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. The EUT was positioned on the X-plane during testing. Following channel(s) was (were) selected for the final test as listed below.

LTE Band 14

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	RB #
-	ERP	23305 to 23355	23305 (790.5MHz), 23330 (793.0MHz), 23355 (795.5MHz)	5MHz	QPSK / 16QAM / 64QAM	1
		23330	23330 (793.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1
-	Radiated Emission Below 1GHz	23330	23330 (793.0MHz)	10MHz	QPSK	1
-	Radiated Emission Above 1GHz	23305 to 23355	23305 (790.5MHz), 23330 (793.0MHz), 23355 (795.5MHz)	5MHz	QPSK	1
		23330	23330 (793.0MHz)	10MHz	QPSK	1

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521-1 Section 6.6.3.1.4.1, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM and 64QAM, measured value of QPSK is higher than 16QAM, and 64QAM mode. Therefore, Radiated Emission was performed under QPSK mode according to the maximum output power.

LTE Band 26

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	RB #
-	ERP	26697 to 26783	26697 (814.7MHz), 26740 (819.0MHz), 26783 (823.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM	1
		26705 to 26775	26705 (815.5MHz), 26740 (819.0MHz), 26775 (822.5MHz)	3MHz	QPSK / 16QAM / 64QAM	1
		26715 to 26765	26715 (816.5MHz), 26740 (819.0MHz), 26765 (821.5MHz)	5MHz	QPSK / 16QAM / 64QAM	1
		26740	26740 (819.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1
-	Radiated Emission Below 1GHz	26740	26740 (819.0MHz)	10MHz	QPSK	1
-	Radiated Emission Above 1GHz	26697 to 26783	26697 (814.7MHz), 26740 (819.0MHz), 26783 (823.3MHz)	1.4MHz	QPSK	1
		26715 to 26765	26715 (816.5MHz), 26740 (819.0MHz), 26765 (821.5MHz)	5MHz	QPSK	1
		26740	26740 (819.0MHz)	10MHz	QPSK	1

Note:
1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521-1 Section 6.6.3.1.4.1, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM and 64QAM, measured value of QPSK is higher than 16QAM, and 64QAM mode. Therefore, Radiated Emission was performed under QPSK mode according to the maximum output power.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	21deg. C, 67%RH	12Vdc	Edison Lee Tim Chen
Radiated Emission	21deg. C, 67%RH	12Vdc	Edison Lee Tim Chen

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 90
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
KDB 971168 D02 Misc Rev Approv License Devices v02r01

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

For LTE Band 14:
Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP. Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

For LTE Band 26:
The output power shall be according to the specific rule Part 90.635 that “Mobile station are limited to 100 watts e.r.p”.

4.1.2 Test Procedures

EIRP / ERP Measurement:

a. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1GHz) and/or 1.5m (above 1GHz) 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.

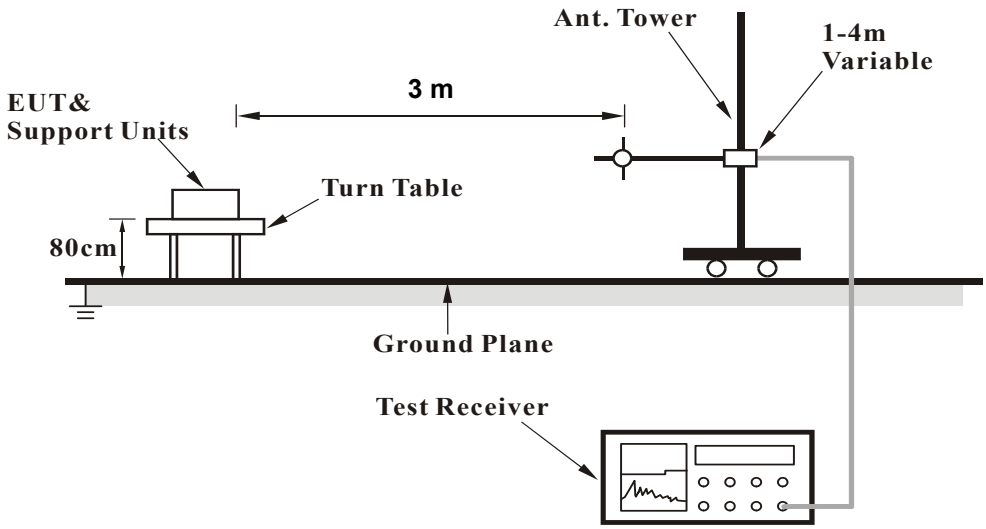
b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

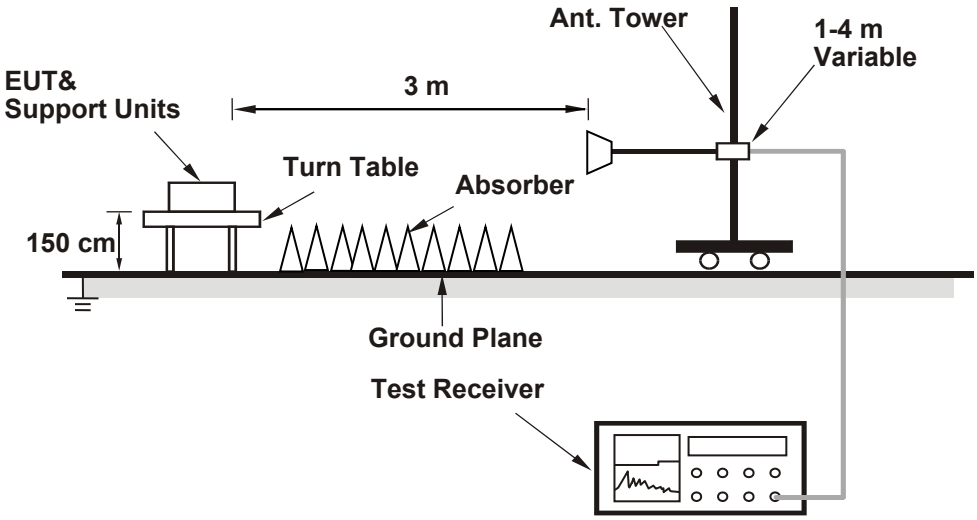
d. Following C63.26 section 5.5 and 5.2.7
   - EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
   - ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

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).

4.1.4 Test Results

ERP Power (dBm)

EUT + Antenna 1 (Main Source)

Modulation Type: QPSK

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	10.57	34.77	-24.20	1.61 H	269	84.23	-73.66
2	793.00	10.39	34.77	-24.38	1.62 H	264	84.09	-73.70
3	795.50	10.46	34.77	-24.31	1.57 H	267	84.18	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	21.06	34.77	-13.71	1.65 V	278	94.72	-73.66
2	793.00	21.04	34.77	-13.73	1.67 V	279	94.74	-73.70
3	795.50	20.99	34.77	-13.78	1.64 V	277	94.71	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	10.67	34.77	-24.10	1.63 H	265	84.37	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	21.21	34.77	-13.56	1.72 V	277	94.91	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 16QAM

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	9.66	34.77	-25.11	1.57 H	271	83.32	-73.66
2	793.00	9.47	34.77	-25.30	1.57 H	267	83.17	-73.70
3	795.50	9.41	34.77	-25.36	1.56 H	266	83.13	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	20.06	34.77	-14.71	1.74 V	277	93.72	-73.66
2	793.00	20.08	34.77	-14.69	1.73 V	280	93.78	-73.70
3	795.50	19.86	34.77	-14.91	1.69 V	281	93.58	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	9.82	34.77	-24.95	1.56 H	266	83.52	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	20.10	34.77	-14.67	1.73 V	280	93.80	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 64QAM

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	8.62	34.77	-26.15	1.60 H	264	82.28	-73.66
2	793.00	8.49	34.77	-26.28	1.57 H	265	82.19	-73.70
3	795.50	8.25	34.77	-26.52	1.61 H	269	81.97	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	18.86	34.77	-15.91	1.65 V	283	92.52	-73.66
2	793.00	19.10	34.77	-15.67	1.69 V	283	92.80	-73.70
3	795.50	18.91	34.77	-15.86	1.68 V	279	92.63	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	8.65	34.77	-26.12	1.54 H	267	82.35	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	19.14	34.77	-15.63	1.73 V	279	92.84	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: QPSK

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	11.97	50.00	-38.03	1.49 H	65	85.41	-73.44
2	819.00	11.96	50.00	-38.04	1.46 H	66	85.34	-73.38
3	823.30	12.04	50.00	-37.96	1.44 H	63	85.38	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	22.19	50.00	-27.81	1.72 V	218	95.63	-73.44
2	819.00	22.13	50.00	-27.87	1.73 V	213	95.51	-73.38
3	823.30	22.20	50.00	-27.80	1.68 V	218	95.54	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	12.02	50.00	-37.98	1.51 H	65	85.44	-73.42
2	819.00	12.05	50.00	-37.95	1.49 H	63	85.43	-73.38
3	822.50	12.08	50.00	-37.92	1.43 H	63	85.42	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	22.24	50.00	-27.76	1.70 V	215	95.66	-73.42
2	819.00	22.09	50.00	-27.91	1.71 V	220	95.47	-73.38
3	822.50	22.21	50.00	-27.79	1.74 V	219	95.55	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	11.88	50.00	-38.12	1.44 H	67	85.29	-73.41
2	819.00	11.99	50.00	-38.01	1.48 H	64	85.37	-73.38
3	821.50	11.95	50.00	-38.05	1.48 H	62	85.30	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	22.13	50.00	-27.87	1.70 V	216	95.54	-73.41
2	819.00	22.14	50.00	-27.86	1.73 V	220	95.52	-73.38
3	821.50	22.17	50.00	-27.83	1.73 V	219	95.52	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	12.17	50.00	-37.83	1.42 H	62	85.55	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	22.38	50.00	-27.62	1.74 V	215	95.76	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 16QAM

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	11.07	50.00	-38.93	1.46 H	65	84.51	-73.44
2	819.00	10.81	50.00	-39.19	1.52 H	66	84.19	-73.38
3	823.30	11.10	50.00	-38.90	1.45 H	65	84.44	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	21.36	50.00	-28.64	1.66 V	220	94.80	-73.44
2	819.00	21.05	50.00	-28.95	1.65 V	219	94.43	-73.38
3	823.30	21.35	50.00	-28.65	1.75 V	219	94.69	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	10.88	50.00	-39.12	1.42 H	68	84.30	-73.42
2	819.00	10.90	50.00	-39.10	1.50 H	68	84.28	-73.38
3	822.50	10.93	50.00	-39.07	1.48 H	68	84.27	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	21.05	50.00	-28.95	1.65 V	217	94.47	-73.42
2	819.00	21.33	50.00	-28.67	1.67 V	217	94.71	-73.38
3	822.50	21.36	50.00	-28.64	1.71 V	216	94.70	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	11.05	50.00	-38.95	1.52 H	62	84.46	-73.41
2	819.00	10.74	50.00	-39.26	1.44 H	67	84.12	-73.38
3	821.50	11.04	50.00	-38.96	1.48 H	62	84.39	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	21.11	50.00	-28.89	1.68 V	213	94.52	-73.41
2	819.00	21.08	50.00	-28.92	1.73 V	218	94.46	-73.38
3	821.50	21.31	50.00	-28.69	1.70 V	214	94.66	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	11.07	50.00	-38.93	1.47 H	62	84.45	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	21.25	50.00	-28.75	1.65 V	215	94.63	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 64QAM

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	10.20	50.00	-39.80	1.46 H	62	83.64	-73.44
2	819.00	9.91	50.00	-40.09	1.42 H	62	83.29	-73.38
3	823.30	10.09	50.00	-39.91	1.45 H	68	83.43	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	20.29	50.00	-29.71	1.66 V	213	93.73	-73.44
2	819.00	19.89	50.00	-30.11	1.66 V	217	93.27	-73.38
3	823.30	20.47	50.00	-29.53	1.68 V	213	93.81	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	9.88	50.00	-40.12	1.52 H	66	83.30	-73.42
2	819.00	9.71	50.00	-40.29	1.47 H	64	83.09	-73.38
3	822.50	10.10	50.00	-39.90	1.51 H	66	83.44	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	19.87	50.00	-30.13	1.65 V	215	93.29	-73.42
2	819.00	10.24	50.00	-39.76	1.67 V	213	83.62	-73.38
3	822.50	20.37	50.00	-29.63	1.71 V	219	93.71	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	10.19	50.00	-39.81	1.42 H	68	83.60	-73.41
2	819.00	9.82	50.00	-40.18	1.48 H	63	83.20	-73.38
3	821.50	10.01	50.00	-39.99	1.49 H	66	83.36	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	20.30	50.00	-29.70	1.75 V	214	93.71	-73.41
2	819.00	20.07	50.00	-29.93	1.67 V	214	93.45	-73.38
3	821.50	20.28	50.00	-29.72	1.66 V	215	93.63	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	10.07	50.00	-39.93	1.45 H	66	83.45	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	20.09	50.00	-29.91	1.67 V	215	93.47	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

EUT + Antenna 2 (2nd Source)

Modulation Type: QPSK

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	10.38	34.77	-24.39	2.29 H	316	84.04	-73.66
2	793.00	10.49	34.77	-24.28	2.30 H	314	84.19	-73.70
3	795.50	10.39	34.77	-24.38	2.28 H	316	84.11	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	21.32	34.77	-13.45	1.90 V	176	94.98	-73.66
2	793.00	21.21	34.77	-13.56	1.87 V	175	94.91	-73.70
3	795.50	21.32	34.77	-13.45	1.89 V	176	95.04	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	10.59	34.77	-24.18	2.31 H	317	84.29	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	21.48	34.77	-13.29	1.89 V	170	95.18	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 16QAM

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	9.54	34.77	-25.23	2.36 H	320	83.20	-73.66
2	793.00	9.36	34.77	-25.41	2.28 H	318	83.06	-73.70
3	795.50	9.20	34.77	-25.57	2.31 H	319	82.92	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	20.41	34.77	-14.36	1.86 V	175	94.07	-73.66
2	793.00	20.29	34.77	-14.48	1.92 V	173	93.99	-73.70
3	795.50	20.49	34.77	-14.28	1.94 V	170	94.21	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	9.63	34.77	-25.14	2.32 H	319	83.33	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	20.41	34.77	-14.36	1.94 V	176	94.11	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 64QAM

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	8.69	34.77	-26.08	2.38 H	314	82.35	-73.66
2	793.00	8.39	34.77	-26.38	2.34 H	320	82.09	-73.70
3	795.50	8.08	34.77	-26.69	2.29 H	321	81.80	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	19.42	34.77	-15.35	1.95 V	175	93.08	-73.66
2	793.00	19.41	34.77	-15.36	1.91 V	173	93.11	-73.70
3	795.50	19.37	34.77	-15.40	1.88 V	171	93.09	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	8.71	34.77	-26.06	2.37 H	318	82.41	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	19.29	34.77	-15.48	1.91 V	170	92.99	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: QPSK

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	11.87	50.00	-38.13	1.97 H	69	85.31	-73.44
2	819.00	12.02	50.00	-37.98	1.89 H	66	85.40	-73.38
3	823.30	12.14	50.00	-37.86	1.88 H	72	85.48	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	22.24	50.00	-27.76	1.65 V	192	95.68	-73.44
2	819.00	22.26	50.00	-27.74	1.69 V	195	95.64	-73.38
3	823.30	22.17	50.00	-27.83	1.70 V	191	95.51	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	11.88	50.00	-38.12	1.95 H	66	85.30	-73.42
2	819.00	12.08	50.00	-37.92	1.94 H	69	85.46	-73.38
3	822.50	12.02	50.00	-37.98	1.90 H	70	85.36	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	22.18	50.00	-27.82	1.66 V	195	95.60	-73.42
2	819.00	22.16	50.00	-27.84	1.68 V	197	95.54	-73.38
3	822.50	22.32	50.00	-27.68	1.61 V	194	95.66	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	12.01	50.00	-37.99	1.94 H	65	85.42	-73.41
2	819.00	12.06	50.00	-37.94	1.91 H	70	85.44	-73.38
3	821.50	12.12	50.00	-37.88	1.95 H	67	85.47	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	22.12	50.00	-27.88	1.69 V	197	95.53	-73.41
2	819.00	22.31	50.00	-27.69	1.71 V	197	95.69	-73.38
3	821.50	22.27	50.00	-27.73	1.65 V	195	95.62	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	12.21	50.00	-37.79	1.91 H	65	85.59	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	22.41	50.00	-27.59	1.64 V	192	95.79	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 16QAM

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	10.81	50.00	-39.19	1.91 H	66	84.25	-73.44
2	819.00	10.92	50.00	-39.08	1.94 H	66	84.30	-73.38
3	823.30	11.18	50.00	-38.82	1.89 H	68	84.52	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	21.42	50.00	-28.58	1.70 V	195	94.86	-73.44
2	819.00	21.45	50.00	-28.55	1.63 V	192	94.83	-73.38
3	823.30	21.01	50.00	-28.99	1.70 V	190	94.35	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	10.93	50.00	-39.07	1.95 H	65	84.35	-73.42
2	819.00	10.90	50.00	-39.10	1.93 H	71	84.28	-73.38
3	822.50	11.06	50.00	-38.94	1.88 H	68	84.40	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	21.32	50.00	-28.68	1.66 V	192	94.74	-73.42
2	819.00	21.21	50.00	-28.79	1.70 V	190	94.59	-73.38
3	822.50	21.37	50.00	-28.63	1.67 V	195	94.71	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	11.08	50.00	-38.92	1.90 H	68	84.49	-73.41
2	819.00	10.91	50.00	-39.09	1.88 H	69	84.29	-73.38
3	821.50	11.11	50.00	-38.89	1.97 H	71	84.46	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	21.25	50.00	-28.75	1.61 V	195	94.66	-73.41
2	819.00	21.21	50.00	-28.79	1.67 V	196	94.59	-73.38
3	821.50	21.12	50.00	-28.88	1.61 V	195	94.47	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	11.06	50.00	-38.94	1.97 H	67	84.44	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	21.23	50.00	-28.77	1.63 V	192	94.61	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 64QAM

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	9.98	50.00	-40.02	1.91 H	69	83.42	-73.44
2	819.00	10.04	50.00	-39.96	1.93 H	65	83.42	-73.38
3	823.30	10.24	50.00	-39.76	1.98 H	66	83.58	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	20.59	50.00	-29.41	1.63 V	196	94.03	-73.44
2	819.00	20.50	50.00	-29.50	1.68 V	193	93.88	-73.38
3	823.30	20.19	50.00	-29.81	1.64 V	196	93.53	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	10.03	50.00	-39.97	1.91 H	65	83.45	-73.42
2	819.00	9.85	50.00	-40.15	1.95 H	67	83.23	-73.38
3	822.50	10.25	50.00	-39.75	1.92 H	66	83.59	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	20.44	50.00	-29.56	1.65 V	196	93.86	-73.42
2	819.00	20.30	50.00	-29.70	1.70 V	196	93.68	-73.38
3	822.50	20.43	50.00	-29.57	1.68 V	195	93.77	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	10.18	50.00	-39.82	1.95 H	66	83.59	-73.41
2	819.00	10.10	50.00	-39.90	1.88 H	70	83.48	-73.38
3	821.50	9.98	50.00	-40.02	1.93 H	69	83.33	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	20.07	50.00	-29.93	1.70 V	197	93.48	-73.41
2	819.00	20.12	50.00	-29.88	1.66 V	193	93.50	-73.38
3	821.50	20.24	50.00	-29.76	1.69 V	194	93.59	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	10.25	50.00	-39.75	1.88 H	71	83.63	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	20.40	50.00	-29.60	1.62 V	195	93.78	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

EUT + Antenna 3

Modulation Type: QPSK

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	10.20	34.77	-24.57	2.07 H	299	83.86	-73.66
2	793.00	10.10	34.77	-24.67	2.07 H	298	83.80	-73.70
3	795.50	10.12	34.77	-24.65	2.11 H	299	83.84	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	20.82	34.77	-13.95	1.81 V	89	94.48	-73.66
2	793.00	20.79	34.77	-13.98	1.80 V	191	94.49	-73.70
3	795.50	20.73	34.77	-14.04	1.91 V	189	94.45	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	10.40	34.77	-24.37	2.09 H	302	84.10	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	20.90	34.77	-13.87	1.81 V	190	94.60	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 16QAM

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	9.14	34.77	-25.63	2.10 H	300	82.80	-73.66
2	793.00	8.99	34.77	-25.78	2.14 H	298	82.69	-73.70
3	795.50	9.24	34.77	-25.53	2.08 H	302	82.96	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	19.76	34.77	-15.01	1.87 V	192	93.42	-73.66
2	793.00	19.67	34.77	-15.10	1.85 V	188	93.37	-73.70
3	795.50	19.66	34.77	-15.11	1.84 V	190	93.38	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	9.23	34.77	-25.54	2.15 H	304	82.93	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	19.73	34.77	-15.04	1.85 V	187	93.43	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 64QAM

LTE Band 14, Channel Bandwidth: 5MHz

Mode	TX channel 23305, 23330, 23355							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	8.08	34.77	-26.69	2.07 H	302	81.74	-73.66
2	793.00	8.11	34.77	-26.66	2.15 H	304	81.81	-73.70
3	795.50	8.24	34.77	-26.53	2.16 H	304	81.96	-73.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	790.50	18.96	34.77	-15.81	1.86 V	186	92.62	-73.66
2	793.00	18.71	34.77	-16.06	1.85 V	185	92.41	-73.70
3	795.50	18.52	34.77	-16.25	1.85 V	187	92.24	-73.72

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 14, Channel Bandwidth: 10MHz

Mode	TX channel 23330							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	9.23	34.77	-25.54	2.15 H	304	82.93	-73.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	793.00	18.69	34.77	-16.08	1.83 V	191	92.39	-73.70

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: QPSK

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	11.20	50.00	-38.80	1.98 H	270	84.64	-73.44
2	819.00	11.32	50.00	-38.68	1.95 H	268	84.70	-73.38
3	823.30	11.30	50.00	-38.70	1.93 H	270	84.64	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	21.50	50.00	-28.50	1.50 V	99	94.94	-73.44
2	819.00	21.52	50.00	-28.48	1.59 V	99	94.90	-73.38
3	823.30	21.65	50.00	-28.35	1.54 V	101	94.99	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	11.27	50.00	-38.73	1.93 H	268	84.69	-73.42
2	819.00	11.28	50.00	-38.72	1.97 H	278	84.66	-73.38
3	822.50	11.33	50.00	-38.67	1.97 H	270	84.67	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	21.53	50.00	-28.47	1.51 V	102	94.95	-73.42
2	819.00	21.54	50.00	-28.46	1.50 V	102	94.92	-73.38
3	822.50	21.56	50.00	-28.44	1.59 V	101	94.90	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	11.24	50.00	-38.76	1.98 H	271	84.65	-73.41
2	819.00	11.22	50.00	-38.78	1.94 H	265	84.60	-73.38
3	821.50	11.25	50.00	-38.75	1.94 H	269	84.60	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	21.55	50.00	-28.45	1.59 V	104	94.96	-73.41
2	819.00	21.55	50.00	-28.45	1.55 V	100	94.93	-73.38
3	821.50	21.59	50.00	-28.41	1.57 V	100	94.94	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	11.52	50.00	-38.48	1.92 H	269	84.90	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	21.72	50.00	-28.28	1.52 V	105	95.10	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 16QAM

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	10.23	50.00	-39.77	1.92 H	269	83.67	-73.44
2	819.00	10.50	50.00	-39.50	1.92 H	265	83.88	-73.38
3	823.30	10.39	50.00	-39.61	2.02 H	266	83.73	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	20.62	50.00	-29.38	1.56 V	106	94.06	-73.44
2	819.00	20.36	50.00	-29.64	1.54 V	99	93.74	-73.38
3	823.30	20.77	50.00	-29.23	1.56 V	106	94.11	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	10.39	50.00	-39.61	2.00 H	271	83.81	-73.42
2	819.00	10.33	50.00	-39.67	2.00 H	271	83.71	-73.38
3	822.50	10.23	50.00	-39.77	2.00 H	264	83.57	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	20.71	50.00	-29.29	1.60 V	105	94.13	-73.42
2	819.00	20.70	50.00	-29.30	1.59 V	99	94.08	-73.38
3	822.50	20.58	50.00	-29.42	1.56 V	99	93.92	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	10.18	50.00	-39.82	2.02 H	266	83.59	-73.41
2	819.00	10.38	50.00	-39.62	1.95 H	268	83.76	-73.38
3	821.50	10.10	50.00	-39.90	2.02 H	264	83.45	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	20.38	50.00	-29.62	1.51 V	106	93.79	-73.41
2	819.00	20.45	50.00	-29.55	1.54 V	102	93.83	-73.38
3	821.50	20.42	50.00	-29.58	1.56 V	106	93.77	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	10.39	50.00	-39.61	2.00 H	265	83.77	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	20.57	50.00	-29.43	1.92 V	265	93.95	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 64QAM

LTE Band 26, Channel Bandwidth: 1.4MHz

Mode	TX channel 26697, 26740, 26783							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	9.29	50.00	-40.71	1.95 H	265	82.73	-73.44
2	819.00	9.58	50.00	-40.42	2.01 H	269	82.96	-73.38
3	823.30	9.53	50.00	-40.47	1.92 H	267	82.87	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	814.70	19.51	50.00	-30.49	1.56 V	103	92.95	-73.44
2	819.00	19.56	50.00	-30.44	1.52 V	103	92.94	-73.38
3	823.30	19.65	50.00	-30.35	1.60 V	105	92.99	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 3MHz

Mode	TX channel 26705, 26740, 26775							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	9.21	50.00	-40.79	1.96 H	266	82.63	-73.42
2	819.00	9.42	50.00	-40.58	1.99 H	270	82.80	-73.38
3	822.50	9.41	50.00	-40.59	1.95 H	269	82.75	-73.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	815.50	19.89	50.00	-30.11	1.58 V	99	93.31	-73.42
2	819.00	19.50	50.00	-30.50	1.58 V	106	92.88	-73.38
3	822.50	19.40	50.00	-30.60	1.55 V	106	92.74	-73.34

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 5MHz

Mode	TX channel 26715, 26740, 26765							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	9.28	50.00	-40.72	1.94 H	267	82.69	-73.41
2	819.00	9.20	50.00	-40.80	1.97 H	265	82.58	-73.38
3	821.50	9.08	50.00	-40.92	1.98 H	265	82.43	-73.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	816.50	19.52	50.00	-30.48	1.51 V	101	92.93	-73.41
2	819.00	19.42	50.00	-30.58	1.54 V	104	92.80	-73.38
3	821.50	19.30	50.00	-30.70	1.58 V	105	92.65	-73.35

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

LTE Band 26, Channel Bandwidth: 10MHz

Mode	TX channel 26740							
Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	9.61	50.00	-40.39	2.00 H	271	82.99	-73.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	819.00	19.63	50.00	-30.37	1.60 V	104	93.01	-73.38

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value

MIMO ERP Power (dBm)

Band	Max. EIRP Power (dBm)	Max. EIRP Power (dBm)	Max. EIRP Power (dBm)	Total Power (dBm)	Limit (dBm)
	EUT + Antenna 1 (Main Source)	EUT + Antenna 2 (2nd Source)	EUT + Antenna 3		
14	21.21	21.48	20.90	25.97	34.77
26	22.38	22.41	21.72	26.95	50.00

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to –13dBm.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz. The limit of emissions is equal to -40 dBm.

4.2.2 Test Procedure

a. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1GHz) and/or 1.5m (above 1GHz) 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.
b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
d. Following C63.26 section 5.5 and 5.2.7
   - EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
   - ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

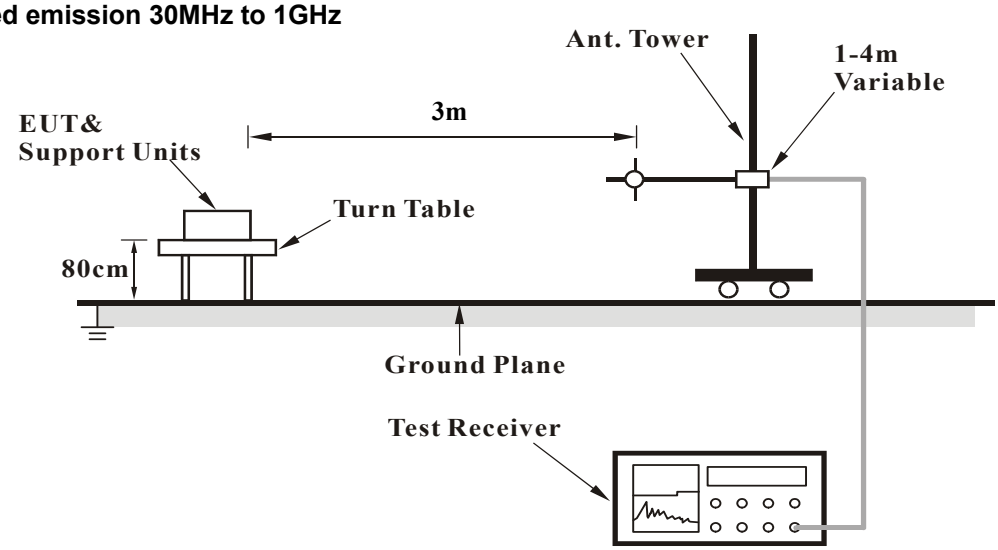
Note:
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
   The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

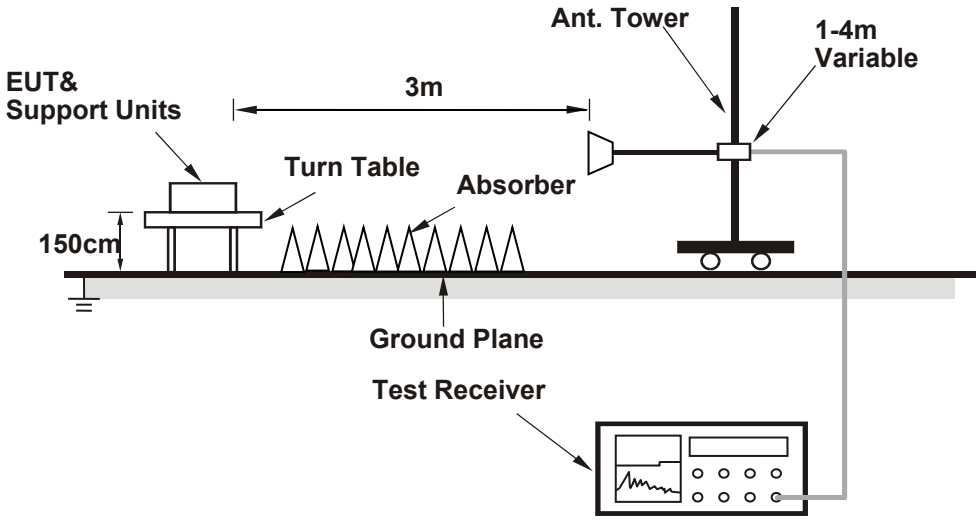
No deviation.

4.2.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



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

4.2.5 Test Results

EUT + Antenna 1 (Main Source)

Below 1GHz

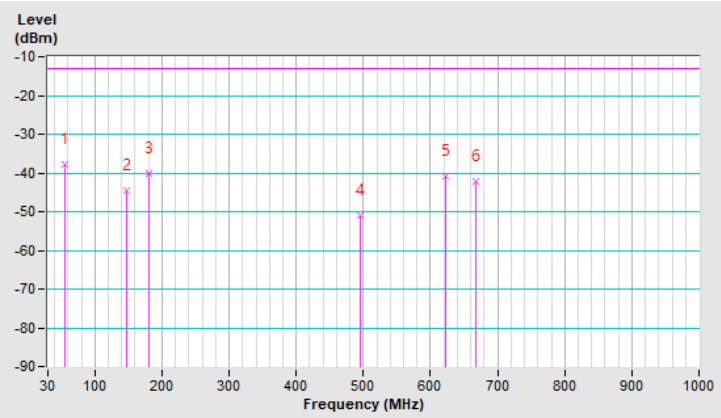
LTE Band 14, Channel Bandwidth 10MHz

Mode	TX channel 23330 (793.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	55.22	-37.80	-13.00	-24.80	1.50 H	230	73.20	-111.00
2	147.37	-44.60	-13.00	-31.60	1.00 H	227	66.00	-110.60
3	180.35	-40.00	-13.00	-27.00	1.00 H	276	72.10	-112.10
4	495.60	-51.00	-13.00	-38.00	1.00 H	170	54.30	-105.30
5	621.70	-40.80	-13.00	-27.80	2.00 H	18	61.80	-102.60
6	667.29	-42.30	-13.00	-29.30	1.00 H	301	59.60	-101.90

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

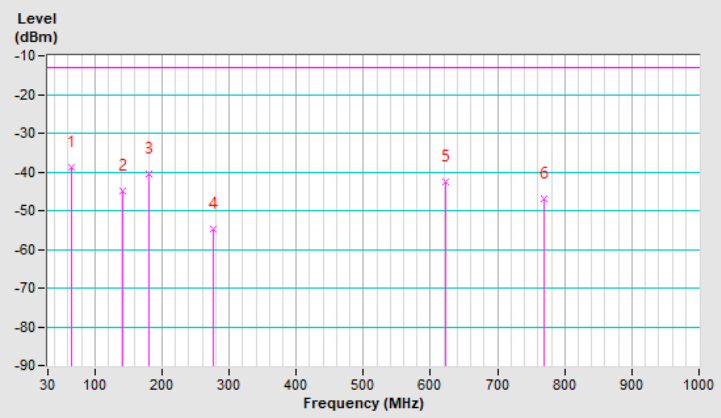


Mode	TX channel 23330 (793.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	65.89	-38.90	-13.00	-25.90	1.00 V	259	73.30	-112.20
2	141.55	-44.80	-13.00	-31.80	1.00 V	223	66.10	-110.90
3	181.32	-40.50	-13.00	-27.50	1.00 V	244	71.70	-112.20
4	276.38	-54.60	-13.00	-41.60	1.00 V	103	55.70	-110.30
5	621.70	-42.40	-13.00	-29.40	1.00 V	19	60.20	-102.60
6	770.11	-47.10	-13.00	-34.10	1.00 V	164	53.50	-100.60

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



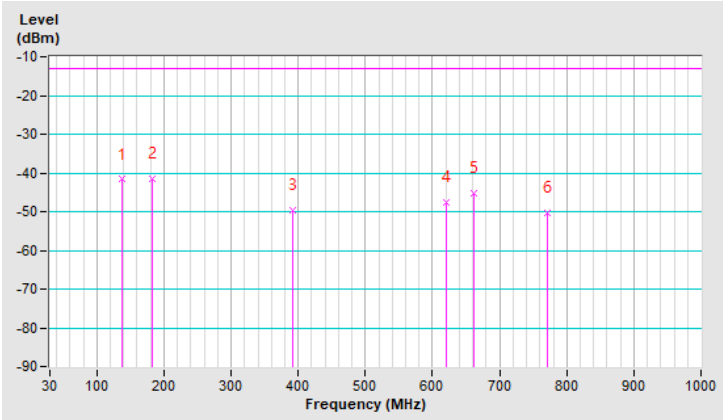
LTE Band 26, Channel Bandwidth 10MHz

Mode	TX channel 26740 (819.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	136.70	-41.70	-13.00	-28.70	1.49 H	104	69.50	-111.20
2	182.29	-41.50	-13.00	-28.50	1.49 H	221	70.70	-112.20
3	391.81	-49.80	-13.00	-36.80	1.00 H	186	57.80	-107.60
4	620.73	-47.70	-13.00	-34.70	1.00 H	175	55.00	-102.70
5	662.44	-45.40	-13.00	-32.40	1.00 H	36	56.60	-102.00
6	771.08	-50.50	-13.00	-37.50	1.49 H	37	50.10	-100.60

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

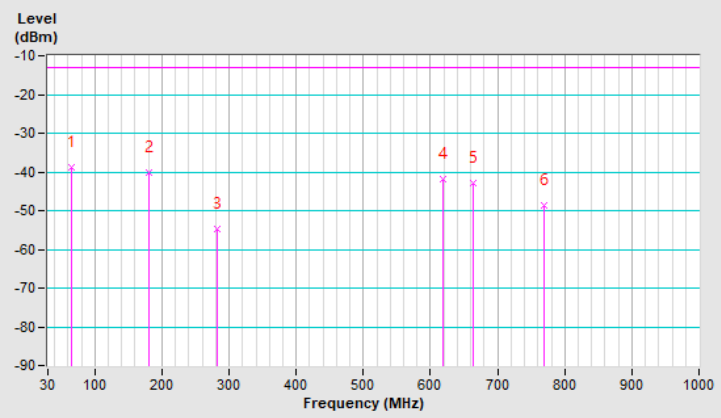


Mode	TX channel 26740 (819.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	65.89	-38.70	-13.00	-25.70	2.00 V	250	73.50	-112.20
2	180.35	-40.20	-13.00	-27.20	1.01 V	242	71.90	-112.10
3	282.20	-54.80	-13.00	-41.80	1.01 V	249	55.50	-110.30
4	617.82	-41.80	-13.00	-28.80	1.50 V	22	60.90	-102.70
5	664.38	-43.00	-13.00	-30.00	1.01 V	320	59.00	-102.00
6	770.11	-48.50	-13.00	-35.50	1.01 V	229	52.10	-100.60

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



Above 1GHz

LTE Band 14, Channel Bandwidth 5MHz

Mode	TX channel 23305 (790.5MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

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	1581.00	-55.96	-40.00	-15.96	1.48 H	341	45.95	-101.91
Antenna Polarity & Test Distance : Vertical 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	1581.00	-52.00	-40.00	-12.00	2.48 V	86	49.91	-101.91

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.

Mode	TX channel 23330 (793.0MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

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	1586.00	-56.00	-40.00	-16.00	1.56 H	342	45.90	-101.90
Antenna Polarity & Test Distance : Vertical 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	1586.00	-51.95	-40.00	-11.95	2.48 V	87	49.95	-101.90

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.

Mode	TX channel 23355 (795.5MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

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	1591.00	-55.98	-40.00	-15.98	1.47 H	347	45.90	-101.88
Antenna Polarity & Test Distance : Vertical 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	1591.00	-51.93	-40.00	-11.93	2.51 V	87	49.95	-101.88

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.

LTE Band 14, Channel Bandwidth 10MHz

Mode	TX channel 23330 (793.0MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

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	1586.00	-55.70	-40.00	-15.70	1.56 H	344	46.20	-101.90
Antenna Polarity & Test Distance : Vertical 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	1586.00	-51.80	-40.00	-11.80	2.47 V	84	50.10	-101.90

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.

LTE Band 26, Channel Bandwidth 1.4MHz

Mode	TX channel 26697 (814.7MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1629.40	-58.80	-13.00	-45.80	2.02 H	141	45.17	-103.97
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1629.40	-57.52	-13.00	-44.52	2.98 V	165	46.45	-103.97

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-58.78	-13.00	-45.78	2.04 H	141	45.17	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-57.54	-13.00	-44.54	2.99 V	158	46.41	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26783 (823.3MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1646.60	-58.83	-13.00	-45.83	1.95 H	141	45.11	-103.94
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1646.60	-57.50	-13.00	-44.50	2.99 V	160	46.44	-103.94

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

LTE Band 26, Channel Bandwidth 5MHz

Mode	TX channel 26715 (816.5MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1633.00	-58.79	-13.00	-45.79	1.96 H	142	45.17	-103.96
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1633.00	-57.53	-13.00	-44.53	3.00 V	158	46.43	-103.96

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-58.85	-13.00	-45.85	4.00 H	143	45.10	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-57.50	-13.00	-44.50	2.69 V	162	46.45	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26765 (821.5MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-58.75	-13.00	-45.75	2.04 H	143	45.20	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-57.46	-13.00	-44.46	2.97 V	164	46.49	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

LTE Band 26, Channel Bandwidth 10MHz

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-58.55	-13.00	-45.55	1.97 H	141	45.40	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-57.35	-13.00	-44.35	2.94 V	162	46.60	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

EUT + Antenna 2 (2nd Source)

Below 1GHz

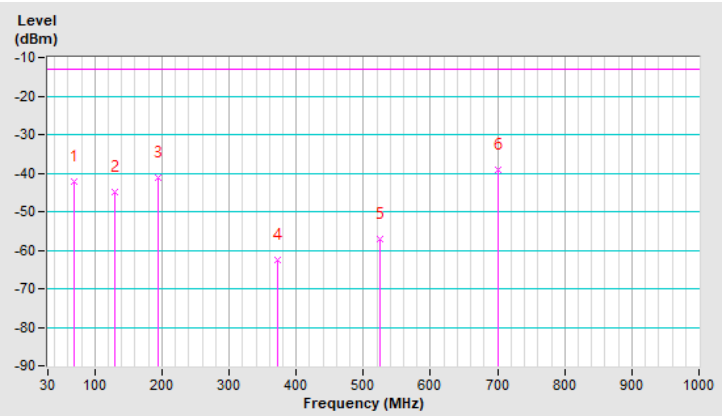
LTE Band 14, Channel Bandwidth 10MHz

Mode	TX channel 23330 (793.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	68.80	-42.08	-13.00	-29.08	1.50 H	252	70.57	-112.65
2	129.91	-44.83	-13.00	-31.83	1.01 H	186	66.96	-111.79
3	194.90	-41.23	-13.00	-28.23	2.00 H	158	72.39	-113.62
4	371.44	-62.40	-13.00	-49.40	1.01 H	195	45.65	-108.05
5	525.67	-57.14	-13.00	-44.14	2.00 H	18	47.54	-104.68
6	700.27	-39.26	-13.00	-26.26	1.01 H	254	62.02	-101.28

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

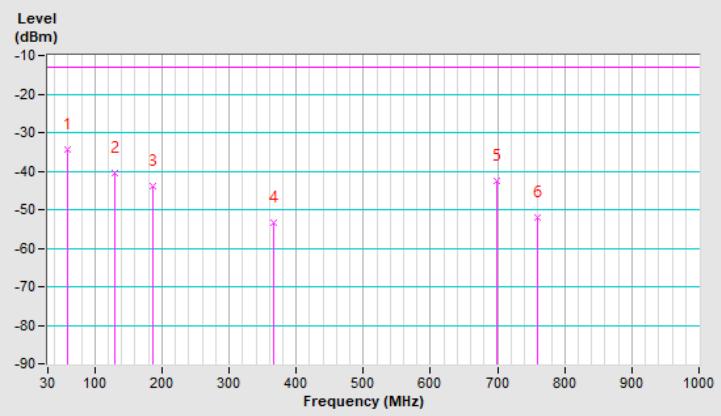


Mode	TX channel 23330 (793.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	59.10	-34.55	-13.00	-21.55	1.50 V	250	76.44	-110.99
2	129.91	-40.40	-13.00	-27.40	1.00 V	167	71.39	-111.79
3	186.17	-43.79	-13.00	-30.79	1.00 V	222	69.01	-112.80
4	365.62	-53.53	-13.00	-40.53	1.99 V	193	54.77	-108.30
5	699.30	-42.60	-13.00	-29.60	1.00 V	102	58.69	-101.29
6	760.41	-52.03	-13.00	-39.03	1.00 V	44	48.49	-100.52

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



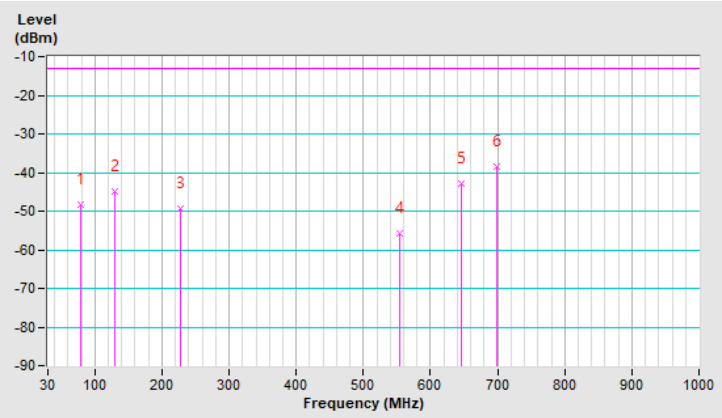
LTE Band 26, Channel Bandwidth 10MHz

Mode	TX channel 26740 (819.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	78.50	-48.38	-13.00	-35.38	2.00 H	292	66.67	-115.05
2	129.91	-45.05	-13.00	-32.05	1.00 H	143	66.74	-111.79
3	226.91	-49.24	-13.00	-36.24	1.50 H	300	64.17	-113.41
4	554.77	-55.63	-13.00	-42.63	1.50 H	261	48.62	-104.25
5	645.95	-42.76	-13.00	-29.76	1.01 H	179	59.27	-102.03
6	698.33	-38.63	-13.00	-25.63	1.50 H	76	62.67	-101.30

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

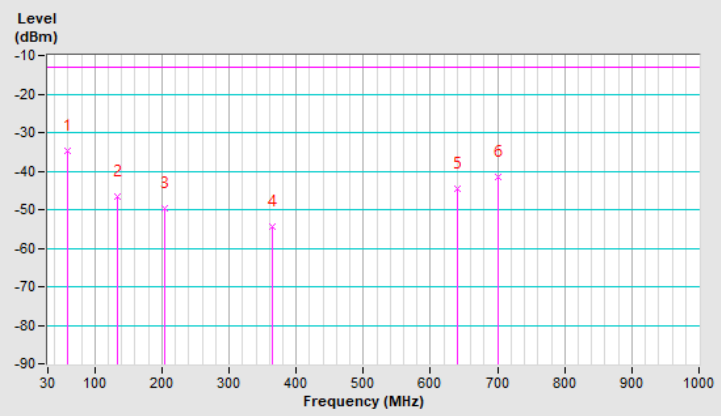


Mode	TX channel 26740 (819.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	59.10	-34.65	-13.00	-21.65	2.00 V	266	76.34	-110.99
2	132.82	-46.69	-13.00	-33.69	1.00 V	147	64.79	-111.48
3	204.60	-49.83	-13.00	-36.83	1.00 V	2	63.98	-113.81
4	363.68	-54.41	-13.00	-41.41	1.49 V	292	53.98	-108.39
5	641.10	-44.52	-13.00	-31.52	1.49 V	159	57.63	-102.15
6	700.27	-41.60	-13.00	-28.60	1.49 V	287	59.68	-101.28

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



Above 1GHz
LTE Band 14, Channel Bandwidth 5MHz

Mode	TX channel 23305 (790.5MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

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	1581.00	-53.17	-40.00	-13.17	1.51 H	299	48.74	-101.91
Antenna Polarity & Test Distance : Vertical 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	1581.00	-51.88	-40.00	-11.88	2.46 V	201	50.03	-101.91

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.

Mode	TX channel 23330 (793.0MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

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	1586.00	-53.18	-40.00	-13.18	1.45 H	303	48.72	-101.90
Antenna Polarity & Test Distance : Vertical 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	1586.00	-51.91	-40.00	-11.91	2.46 V	213	49.99	-101.90

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.

Mode	TX channel 23355 (795.5MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

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	1591.00	-53.14	-40.00	-13.14	1.46 H	296	48.74	-101.88
Antenna Polarity & Test Distance : Vertical 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	1591.00	-51.94	-40.00	-11.94	2.36 V	207	49.94	-101.88

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.

LTE Band 14, Channel Bandwidth 10MHz

Mode	TX channel 23330 (793.0MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

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	1586.00	-52.94	-40.00	-12.94	1.48 H	298	48.96	-101.90
Antenna Polarity & Test Distance : Vertical 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	**1586.00**	**-51.78**	**-40.00**	**-11.78**	**2.43 V**	**212**	**50.12**	**-101.90**

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.

LTE Band 26, Channel Bandwidth 1.4MHz

Mode	TX channel 26697 (814.7MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1629.40	-59.79	-13.00	-46.79	1.11 H	155	44.18	-103.97
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1629.40	-57.02	-13.00	-44.02	1.54 V	203	46.95	-103.97

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-59.80	-13.00	-46.80	1.10 H	159	44.15	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-57.03	-13.00	-44.03	1.58 V	205	46.92	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26783 (823.3MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1646.60	-59.76	-13.00	-46.76	1.13 H	165	44.18	-103.94
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1646.60	-56.99	-13.00	-43.99	1.65 V	208	46.95	-103.94

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

LTE Band 26, Channel Bandwidth 5MHz

Mode	TX channel 26715 (816.5MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1633.00	-59.74	-13.00	-46.74	1.15 H	163	44.22	-103.96
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1633.00	-57.02	-13.00	-44.02	1.59 V	203	46.94	-103.96

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-59.76	-13.00	-46.76	1.18 H	164	44.19	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-57.04	-13.00	-44.04	1.64 V	205	46.91	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26765 (821.5MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-59.81	-13.00	-46.81	1.16 H	159	44.14	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-57.03	-13.00	-44.03	1.55 V	201	46.92	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

LTE Band 26, Channel Bandwidth 10MHz

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-59.53	-13.00	-46.53	1.10 H	159	44.42	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-56.82	-13.00	-43.82	1.59 V	202	47.13	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

EUT + Antenna 3

Below 1GHz

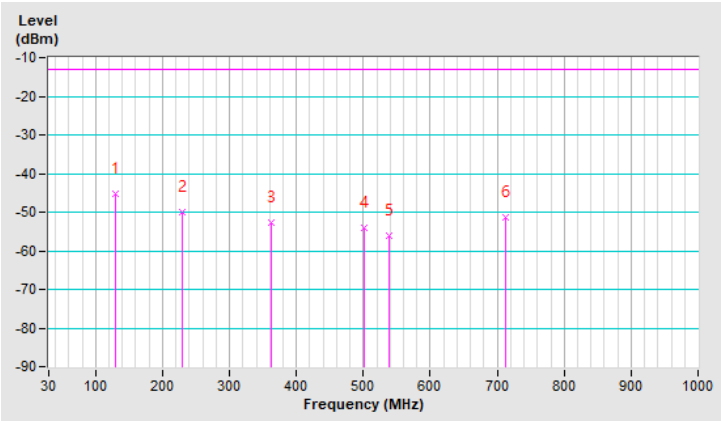
LTE Band 14, Channel Bandwidth 10MHz

Mode	TX channel 23330 (793.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	129.91	-45.28	-13.00	-32.28	1.50 H	137	66.51	-111.79
2	229.82	-49.96	-13.00	-36.96	1.50 H	329	62.93	-112.89
3	362.71	-52.86	-13.00	-39.86	1.01 H	168	55.57	-108.43
4	500.45	-53.92	-13.00	-40.92	1.50 H	109	51.35	-105.27
5	539.25	-55.98	-13.00	-42.98	2.00 H	96	48.57	-104.55
6	711.91	-51.34	-13.00	-38.34	1.01 H	157	49.93	-101.27

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

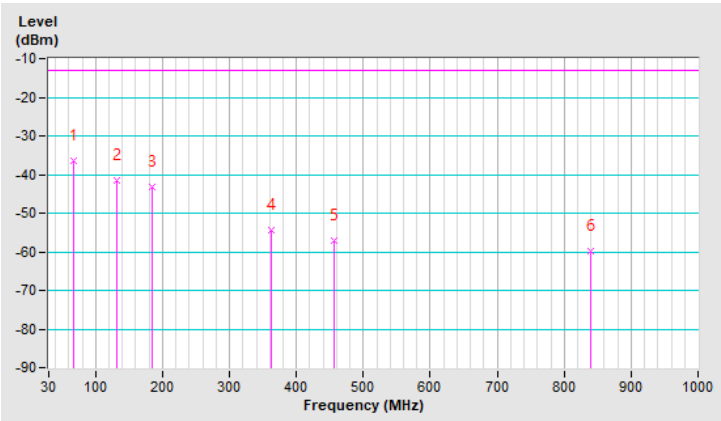


Mode	TX channel 23330 (793.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	67.83	-36.37	-13.00	-23.37	2.00 V	238	76.01	-112.38
2	130.88	-41.36	-13.00	-28.36	1.00 V	172	70.30	-111.66
3	185.20	-43.25	-13.00	-30.25	1.00 V	221	69.46	-112.71
4	362.71	-54.42	-13.00	-41.42	1.49 V	249	54.01	-108.43
5	456.80	-57.07	-13.00	-44.07	2.00 V	296	48.75	-105.82
6	838.98	-59.72	-13.00	-46.72	1.49 V	127	39.73	-99.45

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



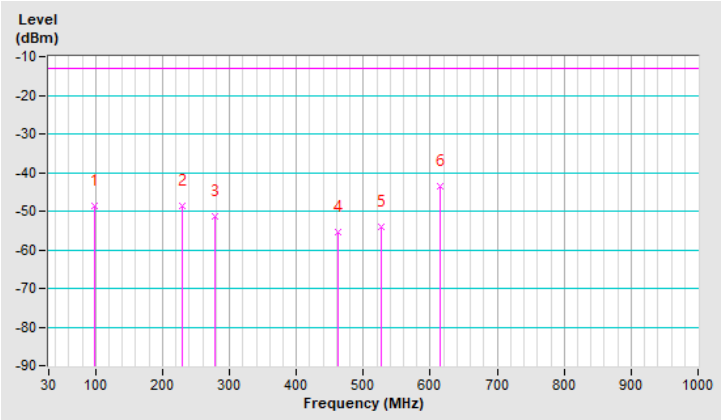
LTE Band 26, Channel Bandwidth 10MHz

Mode	TX channel 26740 (819.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	98.87	-48.63	-13.00	-35.63	1.50 H	109	66.59	-115.22
2	228.85	-48.60	-13.00	-35.60	1.01 H	317	64.46	-113.06
3	279.29	-51.46	-13.00	-38.46	2.00 H	275	58.83	-110.29
4	461.65	-55.28	-13.00	-42.28	1.01 H	195	50.49	-105.77
5	527.61	-54.16	-13.00	-41.16	1.50 H	261	50.52	-104.68
6	614.91	-43.43	-13.00	-30.43	1.50 H	310	59.14	-102.57

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

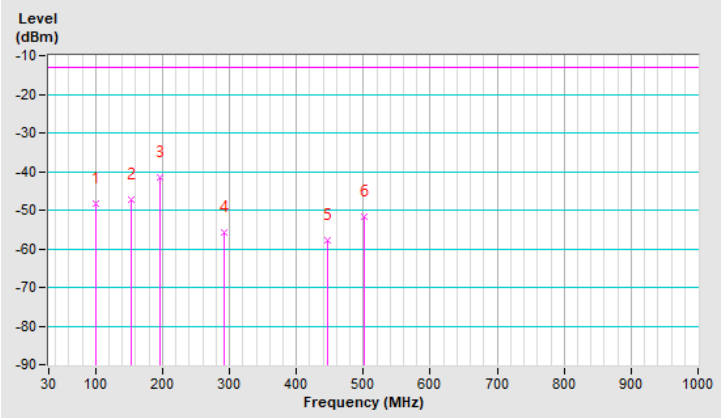


Mode	TX channel 26740 (819.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.84	-48.43	-13.00	-35.43	2.00 V	115	66.61	-115.04
2	153.19	-47.43	-13.00	-34.43	1.49 V	84	63.04	-110.47
3	195.87	-41.67	-13.00	-28.67	1.00 V	173	72.05	-113.72
4	291.90	-55.76	-13.00	-42.76	1.00 V	176	54.28	-110.04
5	446.13	-57.89	-13.00	-44.89	1.00 V	146	48.17	-106.06
6	500.45	-51.62	-13.00	-38.62	1.49 V	98	53.65	-105.27

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



Above 1GHz
LTE Band 14, Channel Bandwidth 5MHz

Mode	TX channel 23305 (790.5MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

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	1581.00	-56.69	-40.00	-16.69	2.14 H	171	45.22	-101.91
Antenna Polarity & Test Distance : Vertical 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	1581.00	-55.49	-40.00	-15.49	1.09 V	61	46.42	-101.91

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.

Mode	TX channel 23330 (793.0MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

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	1586.00	-56.78	-40.00	-16.78	2.16 H	171	45.12	-101.90
Antenna Polarity & Test Distance : Vertical 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	1586.00	-55.38	-40.00	-15.38	1.08 V	64	46.52	-101.90

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.

Mode	TX channel 23355 (795.5MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

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	1591.00	-56.74	-40.00	-16.74	2.05 H	173	45.14	-101.88
Antenna Polarity & Test Distance : Vertical 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	1591.00	-55.41	-40.00	-15.41	1.12 V	64	46.47	-101.88

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.

LTE Band 14, Channel Bandwidth 10MHz

Mode	TX channel 23330 (793.0MHz)	Frequency Range	1GHz ~ 8GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

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	1586.00	-56.47	-40.00	-16.47	2.15 H	171	45.43	-101.90
Antenna Polarity & Test Distance : Vertical 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	1586.00	-55.29	-40.00	-15.29	1.05 V	60	46.61	-101.90

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.

LTE Band 26, Channel Bandwidth 1.4MHz

Mode	TX channel 26697 (814.7MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1629.40	-60.05	-13.00	-47.05	1.21 H	158	43.92	-103.97
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1629.40	-57.36	-13.00	-44.36	1.64 V	209	46.61	-103.97

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-59.98	-13.00	-46.98	1.18 H	161	43.97	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-57.31	-13.00	-44.31	1.67 V	216	46.64	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26783 (823.3MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1646.60	-60.00	-13.00	-47.00	1.28 H	157	43.94	-103.94
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1646.60	-57.29	-13.00	-44.29	1.68 V	212	46.65	-103.94

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

LTE Band 26, Channel Bandwidth 5MHz

Mode	TX channel 26715 (816.5MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1633.00	-59.98	-13.00	-46.98	1.28 H	159	43.98	-103.96
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1633.00	-57.34	-13.00	-44.34	1.69 V	212	46.62	-103.96

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-60.00	-13.00	-47.00	1.23 H	161	43.95	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-57.30	-13.00	-44.30	1.67 V	210	46.65	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

Mode	TX channel 26765 (821.5MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-59.96	-13.00	-46.96	1.23 H	158	43.99	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-57.27	-13.00	-44.27	1.63 V	209	46.68	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP levels were very low against the limit.

LTE Band 26, Channel Bandwidth 10MHz

Mode	TX channel 26740 (819.0MHz)	Frequency Range	1GHz ~ 9GHz
Environmental Conditions	21deg. C, 67%RH	Input Power	12Vdc
Tested By	Tim Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-59.74	-13.00	-46.74	1.27 H	162	44.21	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-57.14	-13.00	-44.14	1.64 V	215	46.81	-103.95

Remarks:

1. ERP(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 - 2.15
3. Margin value = ERP – Limit value.
4. The other ERP 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 and approved according to ISO/IEC 17025.

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

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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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