

Partial FCC Test Report

(PART 27)

Report No.: RFBEDW-WTW-P21040353-2

FCC ID: GKR-LN100EG3L

Test Model: Lenovo 100e Chromebook Gen 3*****(*=0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)

Received Date: Apr. 21, 2021

Test Date: May 14 ~ Jun. 24, 2021

Issued Date: Jun. 28, 2021

Applicant: Compal Electronics Inc

Address: No. 581 & 581-1, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan, R.O.C

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

FCC Registration /

Designation Number: 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBEDW-WTW-P21040353-2	Original Release	Jun. 28, 2021

1 Certificate of Conformity

Product: Notebook Computer

Brand: Lenovo

Test Model: Lenovo 100e Chromebook Gen 3*****(*=0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)

Sample Status: Engineering Sample

Applicant: Compal Electronics Inc

Test Date: May 14 ~ Jun. 24, 2021

Standards: FCC Part 27, Subpart C, H, F, L

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 : , **Date:** Jun. 28, 2021
Polly Chien / Specialist

Approved by : , **Date:** Jun. 28, 2021
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2 (WCDMA)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(d)(4)	Equivalent Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
2.1055 27.54	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
27.50(d)(5)	Peak to Average Ratio	N/A	Refer to Note 1
27.53(h)	Band Edge Measurements	N/A	Refer to Note 1
2.1051 27.53(h)	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -28.60 dB at 32.81 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 4)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(d)(4)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
2.1055 27.54	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
27.50(d)(5)	Peak to Average Ratio	N/A	Refer to Note 1
27.53(h)	Band Edge Measurements	N/A	Refer to Note 1
2.1051 27.53(h)	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -29.73 dB at 31.41 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 12)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(c)(10)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
2.1055 27.54	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
---	Peak to Average Ratio	N/A	Refer to Note 1
27.53(g)	Band Edge Measurements	N/A	Refer to Note 1
2.1051 27.53(g)	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 27.53(g)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -27.28 dB at 1415.00 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 13)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(b)(10)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
2.1055 27.54	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
---	Peak to Average Ratio	N/A	Refer to Note 1
27.53(c)(2)(4)	Band Edge Measurements	N/A	Refer to Note 1
2.1051 27.53(c)(2)&(f)	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 27.53(c)(2)&(f)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -0.85 dB at 1559.00 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 17)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(c)(10)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
2.1055 27.54	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
---	Peak to Average Ratio	N/A	Refer to Note 1
27.53(g)	Band Edge Measurements	N/A	Refer to Note 1
2.1051 27.53(g)	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 27.53(g)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -27.52 dB at 1420.00 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 66)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(d)(4)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
2.1055 27.54	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
27.50(d)(5)	Peak to Average Ratio	N/A	Refer to Note 1
27.53(h)	Band Edge Measurements	N/A	Refer to Note 1
2.1051 27.53(h)	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -32.17 dB at 31.41 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 71)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(c)(10)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
2.1055 27.54	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
---	Peak to Average Ratio	N/A	Refer to Note 1
27.53(g)	Band Edge Measurements	N/A	Refer to Note 1
2.1051 27.53(g)	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 27.53(g)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -32.08 dB at 32.81 MHz.

Note:

1. This report is a partial report. Therefore, only test item of Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to SPORTON report no.: FG091101A_R01 & FG091101B_R01 for module (Brand: Fibocom, Model: NL668-AM-00)
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	3.86 dB
	200 MHz ~ 1000 MHz	3.87 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 04, 2020	Nov. 03, 2021
HORN Antenna SCHWARZBECK	9120D	209	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna EMCI	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 16, 2020	Aug. 15, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 22, 2021	Mar. 21, 2022
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-S M-8000	Cable-CH3-03 (309224+170907)	Aug. 16, 2020	Aug. 15, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2020	May 31, 2021
			Jun. 01, 2021	May 31, 2022
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021
			Jun. 02, 2021	Jun. 01, 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 HwaYa Chamber 3.

3 General Information

3.1 General Description of EUT

Product	Notebook Computer	
Brand	Lenovo	
Test Model	Lenovo 100e Chromebook Gen 3*****(*=0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)	
Status of EUT	Engineering Sample	
Power Supply Rating	20Vdc from adapter	
Modulation Type	WCDMA	QPSK
	LTE	QPSK, 16QAM
Frequency Range	WCDMA	1712.4 ~ 1752.6 MHz
	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	1710.7 ~ 1754.3 MHz
	LTE Band 4 (Channel Bandwidth: 3 MHz)	1711.5 ~ 1753.5 MHz
	LTE Band 4 (Channel Bandwidth: 5 MHz)	1712.5 ~ 1752.5 MHz
	LTE Band 4 (Channel Bandwidth: 10 MHz)	1715.0 ~ 1750.0 MHz
	LTE Band 4 (Channel Bandwidth: 15 MHz)	1717.5 ~ 1747.5 MHz
	LTE Band 4 (Channel Bandwidth: 20 MHz)	1720.0 ~ 1745.0 MHz
	LTE Band 12 (Channel Bandwidth: 1.4 MHz)	699.7 ~ 715.3 MHz
	LTE Band 12 (Channel Bandwidth: 3 MHz)	700.5 ~ 714.5 MHz
	LTE Band 12 (Channel Bandwidth: 5 MHz)	701.5 ~ 713.5 MHz
	LTE Band 12 (Channel Bandwidth: 10 MHz)	704.0 ~ 711.0 MHz
	LTE Band 13 (Channel Bandwidth: 5 MHz)	779.5 ~ 784.5 MHz
	LTE Band 13 (Channel Bandwidth: 10 MHz)	782.0 MHz
	LTE Band 17 (Channel Bandwidth: 5 MHz)	706.5 ~ 713.5 MHz
	LTE Band 17 (Channel Bandwidth: 10 MHz)	709.0 ~ 711.0 MHz
	LTE Band 66 (Channel Bandwidth: 1.4 MHz)	1710.7 ~ 1779.3 MHz
	LTE Band 66 (Channel Bandwidth: 3 MHz)	1711.5 ~ 1778.5 MHz
	LTE Band 66 (Channel Bandwidth: 5 MHz)	1712.5 ~ 1777.5 MHz
	LTE Band 66 (Channel Bandwidth: 10 MHz)	1715.0 ~ 1775.0 MHz
	LTE Band 66 (Channel Bandwidth: 15 MHz)	1717.5 ~ 1772.5 MHz
	LTE Band 66 (Channel Bandwidth: 20 MHz)	1720.0 ~ 1770.0 MHz
LTE Band 71 Channel Bandwidth 5MHz	665.5MHz ~ 695.5MHz	
LTE Band 71 Channel Bandwidth 10MHz	668.0MHz ~ 693.0MHz	
LTE Band 71 Channel Bandwidth 15MHz	670.5MHz ~ 690.5MHz	
LTE Band 71 Channel Bandwidth 20MHz	673.0MHz ~ 688.0MHz	

Max. EIRP Power	WCDMA	127.938mW (21.07dBm)	
		QPSK	16QAM
	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	119.399mW (20.77dBm)	119.124mW (20.76dBm)
	LTE Band 4 (Channel Bandwidth: 3 MHz)	147.911mW (21.70dBm)	119.399mW (20.77dBm)
	LTE Band 4 (Channel Bandwidth: 5 MHz)	151.705mW (21.81dBm)	118.577mW (20.74dBm)
	LTE Band 4 (Channel Bandwidth: 10 MHz)	149.968mW (21.76dBm)	118.032mW (20.72dBm)
	LTE Band 4 (Channel Bandwidth: 15 MHz)	151.008mW (21.79dBm)	116.681mW (20.67dBm)
	LTE Band 4 (Channel Bandwidth: 20 MHz)	152.055mW (21.82dBm)	119.399mW (20.77dBm)
	LTE Band 66 (Channel Bandwidth: 1.4 MHz)	110.408mW (20.43dBm)	86.896mW (19.39dBm)
	LTE Band 66 (Channel Bandwidth: 3 MHz)	108.393mW (20.35dBm)	86.696mW (19.38dBm)
	LTE Band 66 (Channel Bandwidth: 5 MHz)	109.396mW (20.39dBm)	85.114mW (19.30dBm)
	LTE Band 66 (Channel Bandwidth: 10 MHz)	108.393mW (20.35dBm)	85.507mW (19.32dBm)
	LTE Band 66 (Channel Bandwidth: 15 MHz)	109.144mW (20.38dBm)	83.753mW (19.23dBm)
	LTE Band 66 (Channel Bandwidth: 20 MHz)	110.917mW (20.45dBm)	87.096mW (19.40dBm)
	Max. ERP Power	LTE Band 12 (Channel Bandwidth: 1.4 MHz)	109.396mW (20.39dBm)
LTE Band 12 (Channel Bandwidth: 3 MHz)		110.154mW (20.42dBm)	86.099mW (19.35dBm)
LTE Band 12 (Channel Bandwidth: 5 MHz)		108.643mW (20.36dBm)	84.333mW (19.26dBm)
LTE Band 12 (Channel Bandwidth: 10 MHz)		111.429mW (20.47dBm)	87.498mW (19.42dBm)
LTE Band 13 (Channel Bandwidth: 5 MHz)		86.298mW (19.36dBm)	66.681mW (18.24dBm)
LTE Band 13 (Channel Bandwidth: 10 MHz)		83.176mW (19.20dBm)	62.230mW (17.94dBm)
LTE Band 17 (Channel Bandwidth: 5 MHz)		308.319mW (24.89dBm)	229.087mW (23.60dBm)
LTE Band 17 (Channel Bandwidth: 10 MHz)		315.500mW (24.99dBm)	231.739mW (23.65dBm)
LTE Band 71 Channel Bandwidth 5MHz		92.470mW (19.66dBm)	69.823mW (18.44dBm)
LTE Band 71 Channel Bandwidth 10MHz		91.411mW (19.61dBm)	69.663mW (18.43dBm)
LTE Band 71 Channel Bandwidth 15MHz		91.411mW (19.61dBm)	71.779mW (18.56dBm)
LTE Band 71 Channel Bandwidth 20MHz		92.897mW (19.68dBm)	72.277mW (18.59dBm)
Antenna Type		Refer to Note as below	
Antenna Gain	Refer to Note as below		
Accessory Device	Refer to Note as below		
Data Cable Supplied	Refer to Note as below		

Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	Lenovo	ADLX65YAC2D	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20.0V ===3.25A, 65.0W 1.55M / 1core
Battery	Lenovo	L20D3PG0	11.52 Vdc, 3994 mAh, 46Wh
PCS Licensed Transmitter LTE module	Fibocom	NL668-AM-00	--

2. The antenna information is listed as below.

Ant. Type	Brand	Ant.	Model	Antenna Peak Gain (dBi)						Connector
				WCDMA IV / LTE 4	LTE 12	LTE 13	LTE 17	LTE 66	LTE 71	
PIFA	MAGLAYERS	Main	DC33002K410 (FPA-8011-4G0C7-A1)	-2.15	-1.32	-2.08	-1.32	-2.15	-2.04	-
		Aux.	DC33002K410 (FPA-8011-4G0C7-A1)							
	South Star	Main	DC33002IZ10 (N19-0848-R0A)	-2.20	-1.63	-2.22	-2.33	-2.20	-2.70	MHF-B13-N-01
		Aux.	DC33002IZ10 (N19-0848-R0A)							

* The Max antenna gain was chosen for final test.

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

3.2 Configuration of System under Test



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.	Flash	HP	v250W	05	NA	-
	Flash	HP	v250W	09	NA	-
B.	Monitor	DELL	SE2416Hc	CN-OWJKMC-641 80-66D-013B-A00	FCC DoC Approved	-
C.	Earphone	NA	NA	NA	NA	-
D.	Mouse	Microsoft	ITE78CJ	NA	FCC DoC Approved	-

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	HDMI cable	1	1.0	N	0	Provided by Lab (Brand: Amber, Model: HDMI-AA120)
2.	Power cable	1	1.75	N	0	Provided by Client
3.	Audio cable	1	1.2	N	0	-
4.	USB cable	1	1.8	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 & NB Mode, and antenna ports.

The worst case was found when positioned on NB mode for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
*	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA, HSDPA, HSUPA
-	Radiated Emission	1312 to 1513	1312, 1413, 1513	WCDMA

Note: For radiated emissions below 1 GHz, select the worst radiated emission channel for final testing.

LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	19957 to 20393	19957, 20175, 20393	1.4 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	19957 to 20393	19957, 20175, 20393	1.4 MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5 MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20 MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 12

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	23017 to 23173	23017, 23095, 23173	1.4 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		23025 to 23165	23025, 23095, 23165	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		23035 to 23155	23035, 23095, 23155	5 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23060 to 23130	23060, 23095, 23130	10 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Radiated Emission	23017 to 23173	23017, 23095, 23173	1.4 MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095, 23155	5 MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095, 23130	10 MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 13

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	23205 to 23255	23205, 23230, 23255	5 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23230	23230	10 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Radiated Emission	23205 to 23255	23205, 23230, 23255	5 MHz	QPSK	1 RB / 0 RB Offset
		23230	23230	10 MHz	QPSK	1 RB / 0 RB Offset

LTE Band 17

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	23755 to 23825	23755, 23790, 23825	5 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23780 to 23800	23780, 23790, 23800	10 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Radiated Emission	23755 to 23825	23755, 23790, 23825	5 MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	23780, 23790, 23800	10 MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 66

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	131979 to 132665	131979, 132322, 132665	1.4 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987, 132322, 132657	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		131997 to 132647	131997, 132322, 132647	5 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		132022 to 132622	132022, 132322, 132622	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047, 132322, 132597	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		132072 to 132572	132072, 132322, 132572	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	131979 to 132665	131979, 132322, 132665	1.4 MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	131997, 132322, 132647	5 MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132072, 132322, 132572	20 MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 71

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	133147 to 133447	133147, 133297, 133447	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		133172 to 133422	133172, 133297, 133422	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		133197 to 133397	133197, 133297, 133397	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		133222 to 133372	133222, 133297, 133372	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Radiated Emission	133147 to 133447	133147, 133297, 133447	5MHz	QPSK	1 RB / 0 RB Offset
		133222 to 133372	133222, 133297, 133372	20MHz	QPSK	1 RB / 0 RB Offset

Note:

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

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP / ERP	23 deg. C, 67 % RH	120 Vac, 60 Hz	Jones Chang
Radiated Emission	23 deg. C, 67 % RH	120 Vac, 60 Hz	Adair Peng

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 and references:

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI 63.26-2015

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

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

For WCDMA Band 4, LTE Band 4, LTE Band 66:
Mobile / Portable station are limited to 1 watts e.i.r.p.

For LTE Band 12, LTE Band 13, LTE Band 17, LTE Band 71:

Control and mobile stations in the 698-746 MHz, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 30 watts ERP.

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 3 watts ERP.

4.1.2 Test Procedures

Conducted Power Measurement:

For all test band except LTE Band 30:

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

For LTE Band 30:

Measurement method refers to ANSI C63.26 section 5.2.7 & 5.2.4.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	WCDMA IV		
	1312	1413	1513
TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	22.82	23.22	22.75
HSDPA Subtest-1	22.00	22.07	21.90
HSDPA Subtest-2	22.03	22.10	21.91
HSDPA Subtest-3	21.57	21.61	21.42
HSDPA Subtest-4	21.56	21.61	21.42
HSUPA Subtest-1	21.65	21.69	21.53
HSUPA Subtest-2	21.15	21.30	20.86
HSUPA Subtest-3	20.78	20.92	20.76
HSUPA Subtest-4	21.07	21.49	21.35
HSUPA Subtest-5	22.20	22.30	22.20

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	23.14	22.98	22.85
		1	50	23.96	23.80	23.97
		1	99	22.75	23.14	23.71
		50	0	22.90	22.69	22.98
		50	25	22.70	22.71	22.96
		50	50	22.66	22.79	23.00
		100	0	22.67	22.86	23.00
20M	16QAM	1	0	22.40	22.14	22.20
		1	50	22.92	22.42	22.91
		1	99	21.89	22.31	22.91
		50	0	21.77	21.79	21.89
		50	25	21.73	21.77	21.81
		50	50	21.69	21.88	21.86
		100	0	21.75	21.84	21.97

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	23.06	22.89	22.81
		1	37	23.93	23.75	23.94
		1	74	22.69	22.95	23.71
		36	0	22.80	22.59	22.78
		36	19	22.64	22.55	22.89
		36	39	22.59	22.60	22.93
		75	0	22.53	22.85	22.87
15M	16QAM	1	0	22.27	22.00	22.05
		1	37	22.81	22.23	22.82
		1	74	21.84	22.25	22.79
		36	0	21.70	21.62	21.70
		36	19	21.59	21.68	21.75
		36	39	21.63	21.71	21.84
		75	0	21.66	21.73	21.90

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	23.02	22.81	22.72
		1	24	23.91	23.69	23.89
		1	49	22.66	22.98	23.65
		25	0	22.86	22.67	22.93
		25	12	22.55	22.70	22.95
		25	25	22.62	22.77	22.84
		50	0	22.55	22.84	22.88
10M	16QAM	1	0	22.34	22.11	22.19
		1	24	22.80	22.29	22.87
		1	49	21.82	22.24	22.82
		25	0	21.71	21.59	21.75
		25	12	21.63	21.74	21.81
		25	25	21.68	21.74	21.82
		50	0	21.55	21.79	21.86

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	23.06	22.92	22.80
		1	12	23.88	23.63	23.96
		1	24	22.64	23.02	23.68
		12	0	22.79	22.56	22.96
		12	6	22.68	22.70	22.89
		12	13	22.52	22.66	23.00
		25	0	22.57	22.77	22.87
5M	16QAM	1	0	22.35	22.02	22.18
		1	12	22.89	22.34	22.79
		1	24	21.76	22.20	22.88
		12	0	21.69	21.70	21.76
		12	6	21.70	21.62	21.68
		12	13	21.66	21.77	21.67
		25	0	21.69	21.74	21.83

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	23.04	22.95	22.72
		1	7	23.84	23.71	23.85
		1	14	22.70	23.05	23.59
		8	0	22.74	22.62	22.82
		8	3	22.61	22.70	22.79
		8	7	22.55	22.78	23.00
		15	0	22.65	22.70	22.88
3M	16QAM	1	0	22.31	22.09	22.10
		1	7	22.92	22.33	22.73
		1	14	21.72	22.17	22.89
		8	0	21.70	21.61	21.88
		8	3	21.71	21.63	21.78
		8	7	21.51	21.83	21.81
		15	0	21.64	21.80	21.83

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	23.00	22.81	22.81
		1	2	23.90	23.71	23.77
		1	5	22.57	23.12	23.68
		3	0	22.86	22.56	22.92
		3	1	22.58	22.52	22.86
		3	3	22.57	22.60	22.87
		6	0	22.61	22.84	22.91
1.4M	16QAM	1	0	22.37	22.03	22.08
		1	2	22.75	22.25	22.83
		1	5	21.85	22.20	22.91
		3	0	21.63	21.72	21.84
		3	1	21.58	21.63	21.61
		3	3	21.60	21.79	21.78
		6	0	21.61	21.83	21.87

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	23.86	23.78	23.59
		1	24	23.89	23.69	23.94
		1	49	23.42	23.84	23.92
		25	0	22.80	22.84	22.96
		25	12	22.98	22.78	22.95
		25	25	22.86	22.95	22.90
		50	0	22.84	22.98	22.89
10M	16QAM	1	0	22.11	22.89	22.47
		1	24	22.78	22.57	22.79
		1	49	22.01	22.85	22.70
		25	0	21.93	21.87	21.95
		25	12	21.97	21.83	21.94
		25	25	21.85	21.96	21.83
		50	0	21.94	21.92	21.95

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	23.76	23.70	23.43
		1	12	23.75	23.66	23.79
		1	24	23.23	23.83	23.72
		12	0	22.65	22.65	22.83
		12	6	22.95	22.69	22.92
		12	13	22.80	22.86	22.85
		25	0	22.71	22.81	22.78
5M	16QAM	1	0	21.92	22.73	22.27
		1	12	22.64	22.45	22.72
		1	24	21.94	22.70	22.70
		12	0	21.93	21.76	21.76
		12	6	21.88	21.66	21.92
		12	13	21.69	21.78	21.79
		25	0	21.89	21.73	21.95

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	23.71	23.69	23.45
		1	7	23.74	23.52	23.89
		1	14	23.39	23.68	23.81
		8	0	22.80	22.68	22.93
		8	3	22.81	22.60	22.95
		8	7	22.85	22.77	22.78
		15	0	22.84	22.84	22.88
3M	16QAM	1	0	21.96	22.82	22.46
		1	7	22.72	22.50	22.64
		1	14	21.88	22.67	22.67
		8	0	21.73	21.85	21.95
		8	3	21.83	21.82	21.77
		8	7	21.67	21.87	21.71
		15	0	21.91	21.80	21.95

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	23.85	23.60	23.41
		1	2	23.84	23.51	23.86
		1	5	23.30	23.81	23.76
		3	0	22.70	22.75	22.89
		3	1	22.85	22.78	22.76
		3	3	22.74	22.81	22.79
		6	0	22.71	22.87	22.85
1.4M	16QAM	1	0	22.10	22.85	22.27
		1	2	22.62	22.56	22.78
		1	5	21.83	22.75	22.62
		3	0	21.76	21.71	21.95
		3	1	21.88	21.83	21.79
		3	3	21.65	21.77	21.79
		6	0	21.79	21.79	21.77

LTE Band 13				
BW	MCS Index	RB Size	RB Offset	Low
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	23.43
		1	24	23.39
		1	49	22.90
		25	0	22.37
		25	12	22.32
		25	25	22.31
		50	0	22.34
10M	16QAM	1	0	22.11
		1	24	22.17
		1	49	21.55
		25	0	21.46
		25	12	21.43
		25	25	21.39
		50	0	21.26

LTE Band 13							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	
		Channel			23205	23230	23255
		Frequency (MHz)			779.5	782	784.5
5M	QPSK	1	0	23.39	22.99	23.49	
		1	12	23.40	23.59	23.52	
		1	24	23.04	22.99	23.01	
		12	0	22.22	22.33	22.40	
		12	6	22.24	22.20	22.27	
		12	13	22.29	22.10	22.26	
		25	0	22.24	22.32	22.28	
5M	16QAM	1	0	21.92	22.47	22.02	
		1	12	21.89	22.33	22.02	
		1	24	22.03	22.28	21.95	
		12	0	21.19	21.31	21.24	
		12	6	21.17	21.08	21.15	
		12	13	21.22	21.11	21.01	
		25	0	21.17	21.39	21.12	

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	22.39	22.15	22.33
		1	24	22.73	22.37	22.57
		1	49	22.49	22.43	22.20
		25	0	21.54	21.39	21.43
		25	12	21.51	21.48	21.40
		25	25	21.54	21.45	21.46
		50	0	21.53	21.45	21.43
10M	16QAM	1	0	21.34	21.11	21.18
		1	24	21.28	21.39	21.31
		1	49	21.39	21.16	21.11
		25	0	20.55	20.46	20.28
		25	12	20.61	20.55	20.36
		25	25	20.60	20.41	20.42
		50	0	20.43	20.43	20.40

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	22.38	22.08	22.26
		1	12	22.63	22.32	22.55
		1	24	22.44	22.42	22.18
		12	0	21.54	21.35	21.43
		12	6	21.41	21.42	21.38
		12	13	21.45	21.41	21.42
		25	0	21.48	21.39	21.40
5M	16QAM	1	0	21.31	21.03	21.15
		1	12	21.22	21.33	21.25
		1	24	21.34	21.14	21.06
		12	0	20.47	20.42	20.27
		12	6	20.52	20.54	20.34
		12	13	20.58	20.40	20.40
		25	0	20.36	20.42	20.31

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	22.46	22.54	22.02
		1	50	22.21	22.38	22.60
		1	99	22.37	22.17	22.22
		50	0	21.41	21.53	21.54
		50	25	21.33	21.44	21.22
		50	50	21.28	21.28	21.26
		100	0	21.31	21.37	21.23
20M	16QAM	1	0	21.55	21.47	21.17
		1	50	21.17	21.11	21.09
		1	99	21.12	21.12	21.10
		50	0	20.48	20.58	20.19
		50	25	20.43	20.50	20.29
		50	50	20.43	20.23	20.23
		100	0	20.37	20.32	20.29

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	22.38	22.46	22.08
		1	37	22.52	22.53	22.24
		1	74	22.45	22.28	22.32
		36	0	21.45	21.59	21.28
		36	19	21.39	21.36	21.28
		36	39	21.38	21.28	21.29
		75	0	21.40	21.51	21.27
15M	16QAM	1	0	21.25	21.38	21.03
		1	37	21.18	21.13	21.20
		1	74	21.19	21.11	21.18
		36	0	20.51	20.61	20.16
		36	19	20.46	20.29	20.35
		36	39	20.45	20.23	20.18
		75	0	20.39	20.46	20.24

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	22.39	22.45	22.01
		1	24	22.20	22.28	22.50
		1	49	22.34	22.14	22.17
		25	0	21.32	21.43	21.50
		25	12	21.25	21.35	21.15
		25	25	21.19	21.28	21.24
		50	0	21.31	21.31	21.15
10M	16QAM	1	0	21.47	21.37	21.09
		1	24	21.17	21.04	21.06
		1	49	21.03	21.10	21.04
		25	0	20.41	20.52	20.11
		25	12	20.40	20.44	20.26
		25	25	20.39	20.21	20.14
		50	0	20.29	20.26	20.22

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	22.45	22.54	22.04
		1	12	22.14	22.30	22.51
		1	24	22.30	22.13	22.19
		12	0	21.35	21.45	21.46
		12	6	21.31	21.44	21.18
		12	13	21.22	21.28	21.18
		25	0	21.21	21.35	21.21
5M	16QAM	1	0	21.45	21.41	21.07
		1	12	21.12	21.04	21.05
		1	24	21.10	21.11	21.02
		12	0	20.42	20.58	20.18
		12	6	20.39	20.48	20.20
		12	13	20.36	20.21	20.13
		25	0	20.28	20.31	20.20

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	22.42	22.44	22.00
		1	7	22.20	22.35	22.50
		1	14	22.27	22.11	22.20
		8	0	21.38	21.51	21.48
		8	3	21.25	21.40	21.17
		8	7	21.20	21.26	21.20
		15	0	21.21	21.29	21.16
3M	16QAM	1	0	21.53	21.43	21.11
		1	7	21.14	21.10	21.04
		1	14	21.02	21.05	21.06
		8	0	20.47	20.57	20.09
		8	3	20.37	20.41	20.26
		8	7	20.43	20.20	20.15
		15	0	20.36	20.30	20.27

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	22.43	22.47	22.02
		1	2	22.18	22.30	22.58
		1	5	22.31	22.15	22.20
		3	0	22.40	22.46	22.00
		3	1	22.18	22.28	22.51
		3	3	22.28	22.11	22.17
		6	0	21.36	21.53	21.54
1.4M	16QAM	1	0	21.33	21.39	21.13
		1	2	21.21	21.18	21.16
		1	5	21.31	21.37	21.17
		3	0	21.54	21.43	21.12
		3	1	21.12	21.06	21.05
		3	3	21.04	21.02	21.01
		6	0	20.43	20.55	20.09

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	23.21	23.30	23.27
		1	50	23.55	23.87	23.69
		1	99	23.63	23.64	23.36
		50	0	22.47	22.53	22.57
		50	25	22.49	22.38	22.66
		50	50	22.42	22.59	22.64
		100	0	22.51	22.46	22.76
20M	16QAM	1	0	22.44	22.16	22.23
		1	50	22.29	22.16	22.47
		1	99	22.28	22.01	22.78
		50	0	21.41	21.54	21.72
		50	25	21.48	21.57	21.72
		50	50	21.54	21.68	21.57
		100	0	21.38	21.54	21.70

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	23.19	23.13	23.11
		1	37	23.35	23.80	23.65
		1	74	23.59	23.49	23.34
		36	0	22.34	22.47	22.55
		36	19	22.40	22.30	22.61
		36	39	22.40	22.54	22.55
		75	0	22.38	22.38	22.63
15M	16QAM	1	0	22.33	22.16	22.10
		1	37	22.10	22.01	22.43
		1	74	22.17	22.01	22.75
		36	0	21.40	21.54	21.72
		36	19	21.45	21.44	21.56
		36	39	21.47	21.60	21.38
		75	0	21.30	21.41	21.50

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	23.18	23.18	23.15
		1	24	23.55	23.80	23.67
		1	49	23.63	23.60	23.17
		25	0	22.36	22.41	22.42
		25	12	22.43	22.19	22.53
		25	25	22.28	22.40	22.46
		50	0	22.46	22.28	22.56
10M	16QAM	1	0	22.44	22.16	22.04
		1	24	22.17	21.97	22.40
		1	49	22.16	21.82	22.62
		25	0	21.21	21.39	21.63
		25	12	21.45	21.46	21.68
		25	25	21.42	21.50	21.56
		50	0	21.22	21.50	21.68

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	23.08	23.28	23.07
		1	12	23.42	23.85	23.54
		1	24	23.53	23.59	23.26
		12	0	22.33	22.49	22.44
		12	6	22.45	22.18	22.53
		12	13	22.42	22.58	22.59
		25	0	22.44	22.27	22.68
5M	16QAM	1	0	22.44	21.96	22.13
		1	12	22.29	22.16	22.33
		1	24	22.24	21.93	22.63
		12	0	21.40	21.44	21.72
		12	6	21.41	21.53	21.69
		12	13	21.40	21.66	21.49
		25	0	21.34	21.41	21.59

EIRP / ERP Power (dBm)

Band	WCDMA IV		
TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	20.67	21.07	20.60
HSDPA Subtest-1	19.85	19.92	19.75
HSDPA Subtest-2	19.88	19.95	19.76
HSDPA Subtest-3	19.42	19.46	19.27
HSDPA Subtest-4	19.41	19.46	19.27
HSUPA Subtest-1	19.50	19.54	19.38
HSUPA Subtest-2	19.00	19.15	18.71
HSUPA Subtest-3	18.63	18.77	18.61
HSUPA Subtest-4	18.92	19.34	19.20
HSUPA Subtest-5	20.05	20.15	20.05

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	20.99	20.83	20.70
		1	50	21.81	21.65	21.82
		1	99	20.60	20.99	21.56
		50	0	20.75	20.54	20.83
		50	25	20.55	20.56	20.81
		50	50	20.51	20.64	20.85
		100	0	20.52	20.71	20.85
20M	16QAM	1	0	20.25	19.99	20.05
		1	50	20.77	20.27	20.76
		1	99	19.74	20.16	20.76
		50	0	19.62	19.64	19.74
		50	25	19.58	19.62	19.66
		50	50	19.54	19.73	19.71
		100	0	19.60	19.69	19.82

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	20.91	20.74	20.66
		1	37	21.78	21.60	21.79
		1	74	20.54	20.80	21.56
		36	0	20.65	20.44	20.63
		36	19	20.49	20.40	20.74
		36	39	20.44	20.45	20.78
		75	0	20.38	20.70	20.72
15M	16QAM	1	0	20.12	19.85	19.90
		1	37	20.66	20.08	20.67
		1	74	19.69	20.10	20.64
		36	0	19.55	19.47	19.55
		36	19	19.44	19.53	19.60
		36	39	19.48	19.56	19.69
		75	0	19.51	19.58	19.75

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	20.87	20.66	20.57
		1	24	21.76	21.54	21.74
		1	49	20.51	20.83	21.50
		25	0	20.71	20.52	20.78
		25	12	20.40	20.55	20.80
		25	25	20.47	20.62	20.69
		50	0	20.40	20.69	20.73
10M	16QAM	1	0	20.19	19.96	20.04
		1	24	20.65	20.14	20.72
		1	49	19.67	20.09	20.67
		25	0	19.56	19.44	19.60
		25	12	19.48	19.59	19.66
		25	25	19.53	19.59	19.67
		50	0	19.40	19.64	19.71

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	20.91	20.77	20.65
		1	12	21.73	21.48	21.81
		1	24	20.49	20.87	21.53
		12	0	20.64	20.41	20.81
		12	6	20.53	20.55	20.74
		12	13	20.37	20.51	20.85
		25	0	20.42	20.62	20.72
5M	16QAM	1	0	20.20	19.87	20.03
		1	12	20.74	20.19	20.64
		1	24	19.61	20.05	20.73
		12	0	19.54	19.55	19.61
		12	6	19.55	19.47	19.53
		12	13	19.51	19.62	19.52
		25	0	19.54	19.59	19.68

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	20.89	20.80	20.57
		1	7	21.69	21.56	21.70
		1	14	20.55	20.90	21.44
		8	0	20.59	20.47	20.67
		8	3	20.46	20.55	20.64
		8	7	20.40	20.63	20.85
		15	0	20.50	20.55	20.73
3M	16QAM	1	0	20.16	19.94	19.95
		1	7	20.77	20.18	20.58
		1	14	19.57	20.02	20.74
		8	0	19.55	19.46	19.73
		8	3	19.56	19.48	19.63
		8	7	19.36	19.68	19.66
		15	0	19.49	19.65	19.68

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	20.85	20.66	20.66
		1	2	21.75	21.56	21.62
		1	5	20.42	20.97	21.53
		3	0	20.71	20.41	20.77
		3	1	20.43	20.37	20.71
		3	3	20.42	20.45	20.72
		6	0	20.46	20.69	20.76
1.4M	16QAM	1	0	20.22	19.88	19.93
		1	2	20.60	20.10	20.68
		1	5	19.70	20.05	20.76
		3	0	19.48	19.57	19.69
		3	1	19.43	19.48	19.46
		3	3	19.45	19.64	19.63
		6	0	19.46	19.68	19.72

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	20.39	20.31	20.12
		1	24	20.42	20.22	20.47
		1	49	19.95	20.37	20.45
		25	0	19.33	19.37	19.49
		25	12	19.51	19.31	19.48
		25	25	19.39	19.48	19.43
		50	0	19.37	19.51	19.42
10M	16QAM	1	0	18.64	19.42	19.00
		1	24	19.31	19.10	19.32
		1	49	18.54	19.38	19.23
		25	0	18.46	18.40	18.48
		25	12	18.50	18.36	18.47
		25	25	18.38	18.49	18.36
		50	0	18.47	18.45	18.48

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	20.29	20.23	19.96
		1	12	20.28	20.19	20.32
		1	24	19.76	20.36	20.25
		12	0	19.18	19.18	19.36
		12	6	19.48	19.22	19.45
		12	13	19.33	19.39	19.38
		25	0	19.24	19.34	19.31
5M	16QAM	1	0	18.45	19.26	18.80
		1	12	19.17	18.98	19.25
		1	24	18.47	19.23	19.23
		12	0	18.46	18.29	18.29
		12	6	18.41	18.19	18.45
		12	13	18.22	18.31	18.32
		25	0	18.42	18.26	18.48

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	20.24	20.22	19.98
		1	7	20.27	20.05	20.42
		1	14	19.92	20.21	20.34
		8	0	19.33	19.21	19.46
		8	3	19.34	19.13	19.48
		8	7	19.38	19.30	19.31
		15	0	19.37	19.37	19.41
3M	16QAM	1	0	18.49	19.35	18.99
		1	7	19.25	19.03	19.17
		1	14	18.41	19.20	19.20
		8	0	18.26	18.38	18.48
		8	3	18.36	18.35	18.30
		8	7	18.20	18.40	18.24
		15	0	18.44	18.33	18.48

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	20.38	20.13	19.94
		1	2	20.37	20.04	20.39
		1	5	19.83	20.34	20.29
		3	0	19.23	19.28	19.42
		3	1	19.38	19.31	19.29
		3	3	19.27	19.34	19.32
		6	0	19.24	19.40	19.38
1.4M	16QAM	1	0	18.63	19.38	18.80
		1	2	19.15	19.09	19.31
		1	5	18.36	19.28	19.15
		3	0	18.29	18.24	18.48
		3	1	18.41	18.36	18.32
		3	3	18.18	18.30	18.32
		6	0	18.32	18.32	18.30

LTE Band 13				
BW	MCS Index	RB Size	RB Offset	Low
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	19.20
		1	24	19.16
		1	49	18.67
		25	0	18.14
		25	12	18.09
		25	25	18.08
		50	0	18.11
10M	16QAM	1	0	17.88
		1	24	17.94
		1	49	17.32
		25	0	17.23
		25	12	17.20
		25	25	17.16
		50	0	17.03

LTE Band 13							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	
		Channel			23205	23230	23255
		Frequency (MHz)			779.5	782	784.5
5M	QPSK	1	0	19.16	18.76	19.26	
		1	12	19.17	19.36	19.29	
		1	24	18.81	18.76	18.78	
		12	0	17.99	18.10	18.17	
		12	6	18.01	17.97	18.04	
		12	13	18.06	17.87	18.03	
		25	0	18.01	18.09	18.05	
5M	16QAM	1	0	17.69	18.24	17.79	
		1	12	17.66	18.10	17.79	
		1	24	17.80	18.05	17.72	
		12	0	16.96	17.08	17.01	
		12	6	16.94	16.85	16.92	
		12	13	16.99	16.88	16.78	
		25	0	16.94	17.16	16.89	

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	24.65	24.41	24.59
		1	24	24.99	24.63	24.83
		1	49	24.75	24.69	24.46
		25	0	23.80	23.65	23.69
		25	12	23.77	23.74	23.66
		25	25	23.80	23.71	23.72
		50	0	23.79	23.71	23.69
10M	16QAM	1	0	23.60	23.37	23.44
		1	24	23.54	23.65	23.57
		1	49	23.65	23.42	23.37
		25	0	22.81	22.72	22.54
		25	12	22.87	22.81	22.62
		25	25	22.86	22.67	22.68
		50	0	22.69	22.69	22.66

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	24.64	24.34	24.52
		1	12	24.89	24.58	24.81
		1	24	24.70	24.68	24.44
		12	0	23.80	23.61	23.69
		12	6	23.67	23.68	23.64
		12	13	23.71	23.67	23.68
		25	0	23.74	23.65	23.66
5M	16QAM	1	0	23.57	23.29	23.41
		1	12	23.48	23.59	23.51
		1	24	23.60	23.40	23.32
		12	0	22.73	22.68	22.53
		12	6	22.78	22.80	22.60
		12	13	22.84	22.66	22.66
		25	0	22.62	22.68	22.57

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	20.31	20.39	19.87
		1	50	20.06	20.23	20.45
		1	99	20.22	20.02	20.07
		50	0	19.26	19.38	19.39
		50	25	19.18	19.29	19.07
		50	50	19.13	19.13	19.11
		100	0	19.16	19.22	19.08
20M	16QAM	1	0	19.40	19.32	19.02
		1	50	19.02	18.96	18.94
		1	99	18.97	18.97	18.95
		50	0	18.33	18.43	18.04
		50	25	18.28	18.35	18.14
		50	50	18.28	18.08	18.08
		100	0	18.22	18.17	18.14

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	20.23	20.31	19.93
		1	37	20.37	20.38	20.09
		1	74	20.30	20.13	20.17
		36	0	19.30	19.44	19.13
		36	19	19.24	19.21	19.13
		36	39	19.23	19.13	19.14
		75	0	19.25	19.36	19.12
15M	16QAM	1	0	19.10	19.23	18.88
		1	37	19.03	18.98	19.05
		1	74	19.04	18.96	19.03
		36	0	18.36	18.46	18.01
		36	19	18.31	18.14	18.20
		36	39	18.30	18.08	18.03
		75	0	18.24	18.31	18.09

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	20.24	20.30	19.86
		1	24	20.05	20.13	20.35
		1	49	20.19	19.99	20.02
		25	0	19.17	19.28	19.35
		25	12	19.10	19.20	19.00
		25	25	19.04	19.13	19.09
		50	0	19.16	19.16	19.00
10M	16QAM	1	0	19.32	19.22	18.94
		1	24	19.02	18.89	18.91
		1	49	18.88	18.95	18.89
		25	0	18.26	18.37	17.96
		25	12	18.25	18.29	18.11
		25	25	18.24	18.06	17.99
		50	0	18.14	18.11	18.07

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	20.30	20.39	19.89
		1	12	19.99	20.15	20.36
		1	24	20.15	19.98	20.04
		12	0	19.20	19.30	19.31
		12	6	19.16	19.29	19.03
		12	13	19.07	19.13	19.03
		25	0	19.06	19.20	19.06
5M	16QAM	1	0	19.30	19.26	18.92
		1	12	18.97	18.89	18.90
		1	24	18.95	18.96	18.87
		12	0	18.27	18.43	18.03
		12	6	18.24	18.33	18.05
		12	13	18.21	18.06	17.98
		25	0	18.13	18.16	18.05

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	20.27	20.29	19.85
		1	7	20.05	20.20	20.35
		1	14	20.12	19.96	20.05
		8	0	19.23	19.36	19.33
		8	3	19.10	19.25	19.02
		8	7	19.05	19.11	19.05
		15	0	19.06	19.14	19.01
3M	16QAM	1	0	19.38	19.28	18.96
		1	7	18.99	18.95	18.89
		1	14	18.87	18.90	18.91
		8	0	18.32	18.42	17.94
		8	3	18.22	18.26	18.11
		8	7	18.28	18.05	18.00
		15	0	18.21	18.15	18.12

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	20.28	20.32	19.87
		1	2	20.03	20.15	20.43
		1	5	20.16	20.00	20.05
		3	0	20.25	20.31	19.85
		3	1	20.03	20.13	20.36
		3	3	20.13	19.96	20.02
		6	0	19.21	19.38	19.39
1.4M	16QAM	1	0	19.18	19.24	18.98
		1	2	19.06	19.03	19.01
		1	5	19.16	19.22	19.02
		3	0	19.39	19.28	18.97
		3	1	18.97	18.91	18.90
		3	3	18.89	18.87	18.86
		6	0	18.28	18.40	17.94

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	19.02	19.11	19.08
		1	50	19.36	19.68	19.50
		1	99	19.44	19.45	19.17
		50	0	18.28	18.34	18.38
		50	25	18.30	18.19	18.47
		50	50	18.23	18.40	18.45
		100	0	18.32	18.27	18.57
20M	16QAM	1	0	18.25	17.97	18.04
		1	50	18.10	17.97	18.28
		1	99	18.09	17.82	18.59
		50	0	17.22	17.35	17.53
		50	25	17.29	17.38	17.53
		50	50	17.35	17.49	17.38
		100	0	17.19	17.35	17.51

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	19.00	18.94	18.92
		1	37	19.16	19.61	19.46
		1	74	19.40	19.30	19.15
		36	0	18.15	18.28	18.36
		36	19	18.21	18.11	18.42
		36	39	18.21	18.35	18.36
		75	0	18.19	18.19	18.44
15M	16QAM	1	0	18.14	17.97	17.91
		1	37	17.91	17.82	18.24
		1	74	17.98	17.82	18.56
		36	0	17.21	17.35	17.53
		36	19	17.26	17.25	17.37
		36	39	17.28	17.41	17.19
		75	0	17.11	17.22	17.31

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	18.99	18.99	18.96
		1	24	19.36	19.61	19.48
		1	49	19.44	19.41	18.98
		25	0	18.17	18.22	18.23
		25	12	18.24	18.00	18.34
		25	25	18.09	18.21	18.27
		50	0	18.27	18.09	18.37
10M	16QAM	1	0	18.25	17.97	17.85
		1	24	17.98	17.78	18.21
		1	49	17.97	17.63	18.43
		25	0	17.02	17.20	17.44
		25	12	17.26	17.27	17.49
		25	25	17.23	17.31	17.37
		50	0	17.03	17.31	17.49

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	18.89	19.09	18.88
		1	12	19.23	19.66	19.35
		1	24	19.34	19.40	19.07
		12	0	18.14	18.30	18.25
		12	6	18.26	17.99	18.34
		12	13	18.23	18.39	18.40
		25	0	18.25	18.08	18.49
5M	16QAM	1	0	18.25	17.77	17.94
		1	12	18.10	17.97	18.14
		1	24	18.05	17.74	18.44
		12	0	17.21	17.25	17.53
		12	6	17.22	17.34	17.50
		12	13	17.21	17.47	17.30
		25	0	17.15	17.22	17.40

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

- a. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.
- b. For operations in the 775-788 MHz, emissions 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. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- c. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

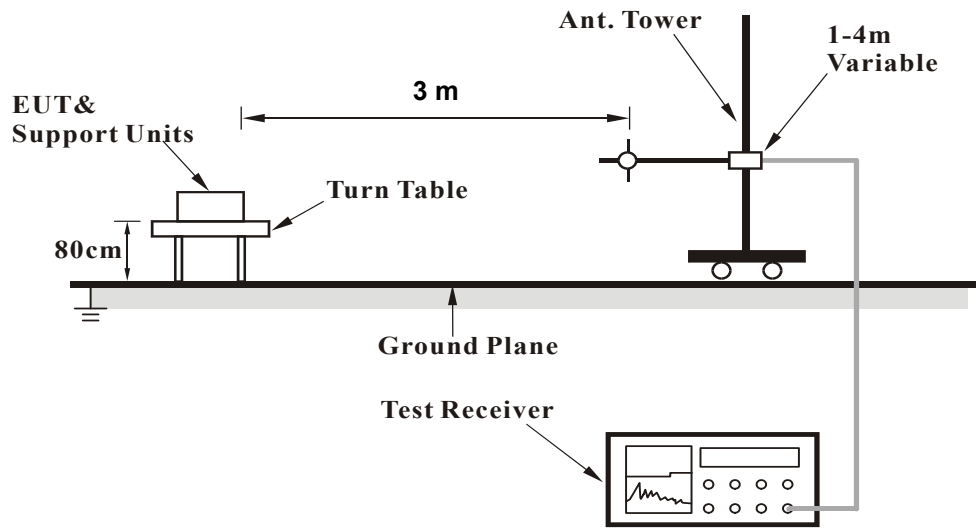
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.2.3 Deviation from Test Standard

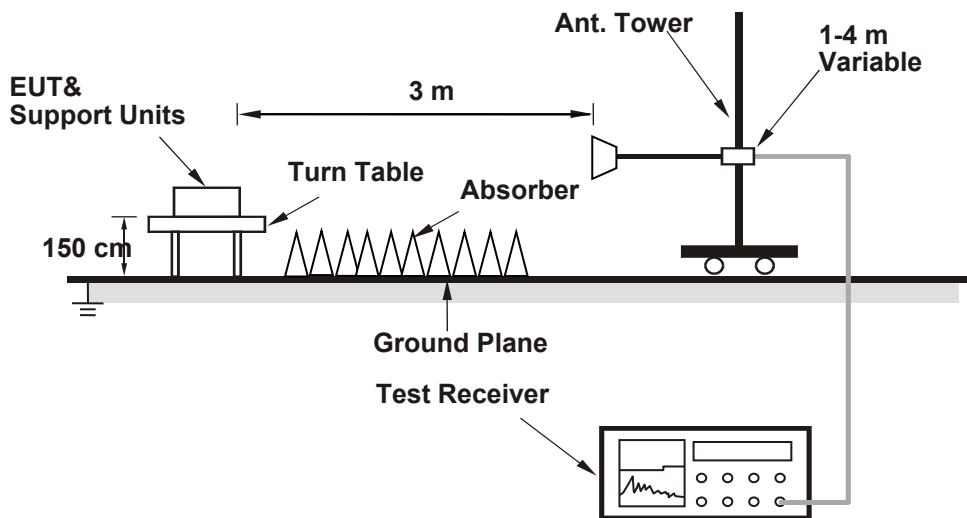
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.2.5 Test Results

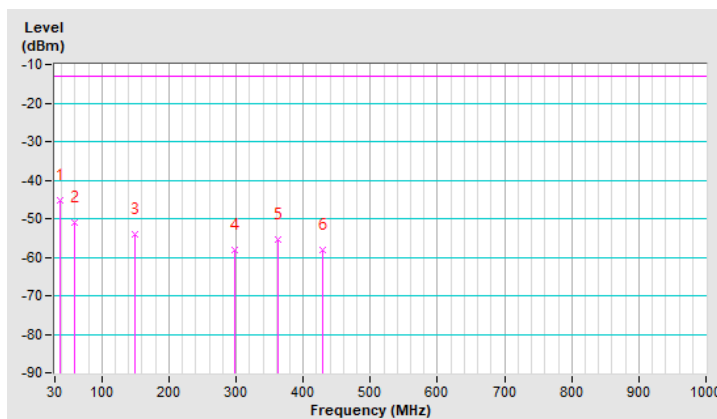
BELOW 1GHz

RF Mode	TX WCDMA Band IV	Channel	CH 1513 : 1752.6 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.03	-45.21	-13.00	-32.21	1.00 H	133	60.09	-105.30
2	59.52	-51.15	-13.00	-38.15	1.00 H	45	53.49	-104.64
3	149.49	-54.09	-13.00	-41.09	2.00 H	168	49.67	-103.76
4	297.10	-58.27	-13.00	-45.27	1.00 H	298	43.61	-101.88
5	363.17	-55.46	-13.00	-42.46	1.50 H	247	45.09	-100.55
6	429.25	-58.11	-13.00	-45.11	1.50 H	8	40.83	-98.94

Remarks:

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



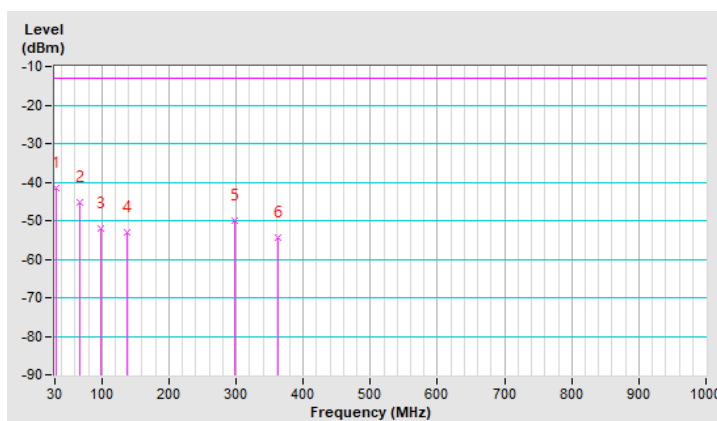
RF Mode	TX WCDMA Band IV	Channel	CH 1513 : 1752.6 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3m

No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	32.81	-41.60	-13.00	-28.60	1.50 V	210	64.54	-106.14
2	66.55	-45.42	-13.00	-32.42	1.00 V	19	60.10	-105.52
3	98.88	-51.97	-13.00	-38.97	1.50 V	123	56.74	-108.71
4	136.84	-53.09	-13.00	-40.09	1.00 V	105	51.46	-104.55
5	297.10	-50.15	-13.00	-37.15	1.00 V	44	51.73	-101.88
6	363.17	-54.29	-13.00	-41.29	2.00 V	270	46.26	-100.55

Remarks:

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

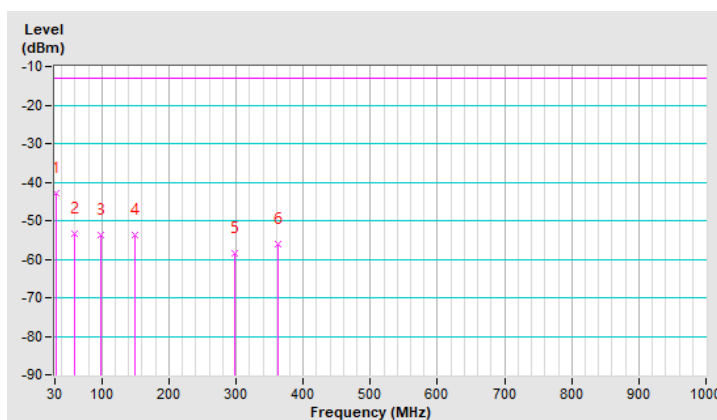


RF Mode	TX LTE Band IV-1.4MHz	Channel	CH 20393 : 1754.3 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	31.41	-42.73	-13.00	-29.73	1.99 H	44	63.56	-106.29
2	59.52	-53.54	-13.00	-40.54	1.01 H	39	51.10	-104.64
3	98.88	-53.66	-13.00	-40.66	1.99 H	265	55.04	-108.70
4	149.49	-53.72	-13.00	-40.72	1.01 H	156	50.04	-103.76
5	297.10	-58.41	-13.00	-45.41	1.01 H	112	43.47	-101.88
6	363.17	-56.25	-13.00	-43.25	1.01 H	251	44.30	-100.55

Remarks:

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



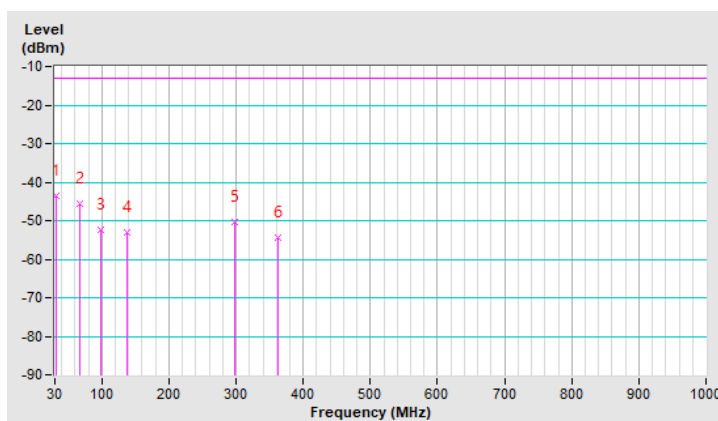
RF Mode	TX LTE Band IV-1.4MHz	Channel	CH 20393 : 1754.3 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3m

No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	31.41	-43.59	-13.00	-30.59	1.99 V	105	62.70	-106.29
2	66.55	-45.64	-13.00	-32.64	1.00 V	4	59.88	-105.52
3	98.88	-52.43	-13.00	-39.43	1.00 V	144	56.27	-108.70
4	136.84	-53.20	-13.00	-40.20	1.00 V	111	51.35	-104.55
5	297.10	-50.43	-13.00	-37.43	1.49 V	47	51.45	-101.88
6	363.17	-54.33	-13.00	-41.33	1.49 V	200	46.22	-100.55

Remarks:

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

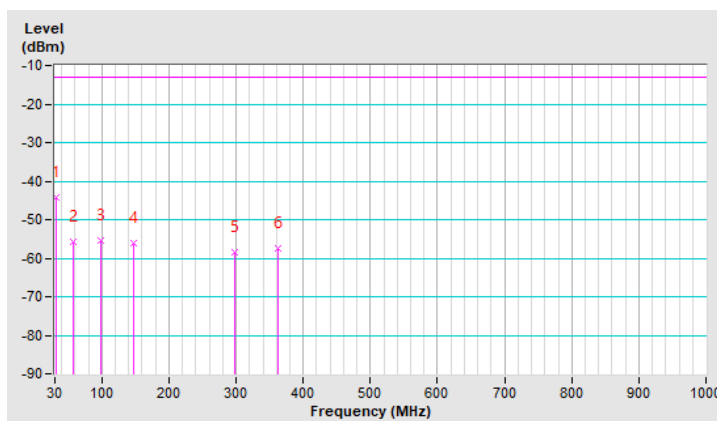


RF Mode	TX LTE Band XII-10MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	30MHz ~ 1GHz		

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	32.81	-44.34	-13.00	-31.34	1.51 H	12	63.95	-108.29
2	58.12	-55.86	-13.00	-42.86	1.01 H	26	50.91	-106.77
3	97.48	-55.57	-13.00	-42.57	1.99 H	262	55.54	-111.11
4	148.09	-56.10	-13.00	-43.10	1.01 H	129	49.97	-106.07
5	297.10	-58.47	-13.00	-45.47	1.01 H	328	45.56	-104.03
6	363.17	-57.56	-13.00	-44.56	1.01 H	248	45.14	-102.70

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
4. The other ERP levels were very low against the limit.



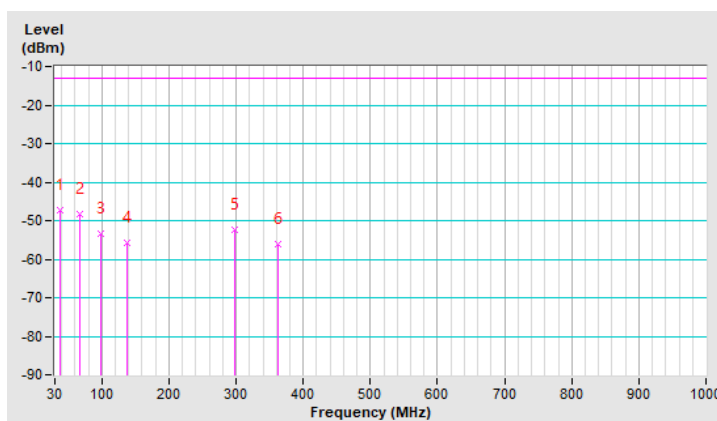
RF Mode	TX LTE Band XII-10MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	30MHz ~ 1GHz		

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	37.03	-47.25	-13.00	-34.25	1.99 V	298	60.20	-107.45
2	66.55	-48.37	-13.00	-35.37	1.00 V	39	59.30	-107.67
3	98.88	-53.55	-13.00	-40.55	1.50 V	76	57.30	-110.85
4	136.84	-55.92	-13.00	-42.92	1.00 V	135	50.78	-106.70
5	297.10	-52.52	-13.00	-39.52	1.00 V	57	51.51	-104.03
6	363.17	-56.21	-13.00	-43.21	1.50 V	195	46.49	-102.70

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
4. The other ERP levels were very low against the limit.

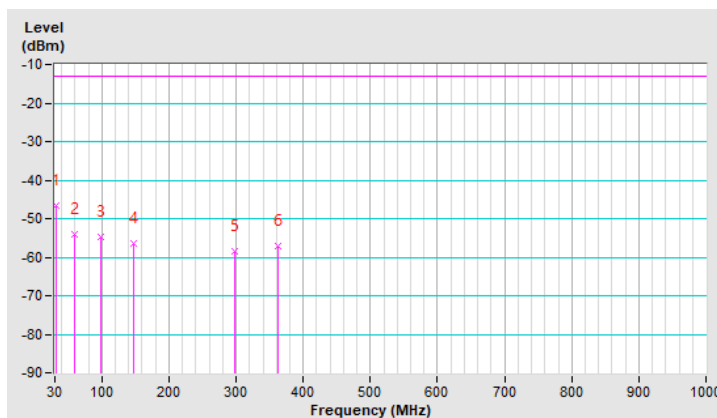


RF Mode	TX LTE Band XIII-5MHz	Channel	CH 23205 : 779.5 MHz
Frequency Range	30MHz ~ 1GHz		

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	32.81	-46.71	-13.00	-33.71	1.99 H	7	61.58	-108.29
2	59.52	-54.07	-13.00	-41.07	1.00 H	145	52.72	-106.79
3	98.88	-54.62	-13.00	-41.62	1.99 H	282	56.23	-110.85
4	148.09	-56.49	-13.00	-43.49	1.00 H	131	49.58	-106.07
5	297.10	-58.54	-13.00	-45.54	1.99 H	4	45.49	-104.03
6	363.17	-57.13	-13.00	-44.13	1.00 H	256	45.57	-102.70

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

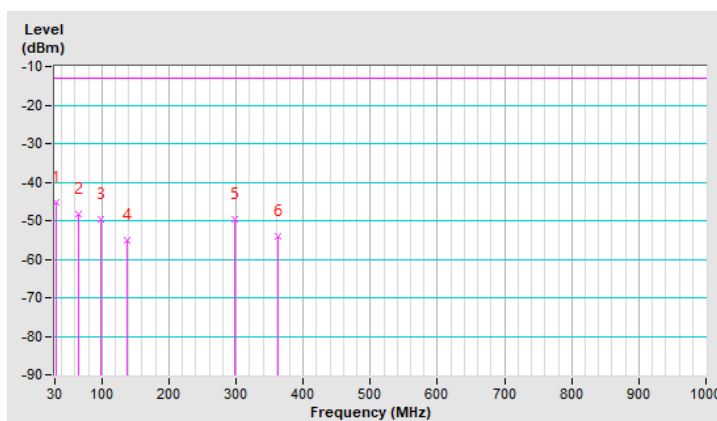


RF Mode	TX LTE Band XIII-5MHz	Channel	CH 23205 : 779.5 MHz
Frequency Range	30MHz ~ 1GHz		

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	31.41	-45.10	-13.00	-32.10	1.99 V	97	63.34	-108.44
2	65.14	-48.24	-13.00	-35.24	1.01 V	16	59.31	-107.55
3	98.88	-49.76	-13.00	-36.76	1.01 V	60	61.09	-110.85
4	136.84	-55.17	-13.00	-42.17	1.01 V	97	51.53	-106.70
5	297.10	-49.75	-13.00	-36.75	1.01 V	114	54.28	-104.03
6	363.17	-54.11	-13.00	-41.11	1.51 V	97	48.59	-102.70

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
4. The other ERP levels were very low against the limit.

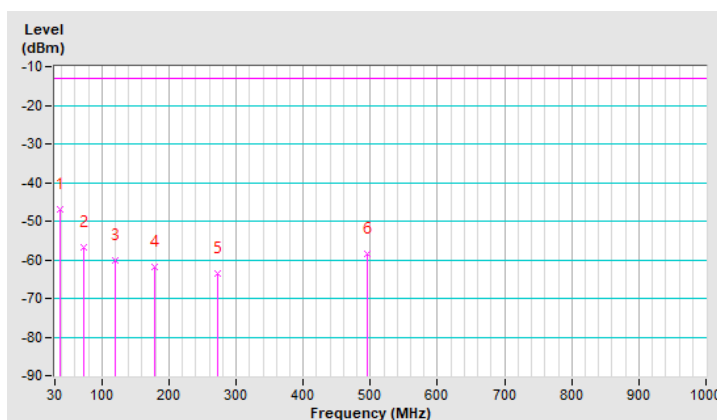


RF Mode	TX LTE Band XVII-5MHz	Channel	CH 23790 : 710.0 MHz
Frequency Range	30MHz ~ 1GHz		

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	37.03	-46.96	-13.00	-33.96	1.99 H	243	60.49	-107.45
2	73.58	-56.74	-13.00	-43.74	1.99 H	134	52.47	-109.21
3	119.97	-60.28	-13.00	-47.28	1.01 H	170	48.14	-108.42
4	179.01	-61.83	-13.00	-48.83	1.99 H	245	45.27	-107.10
5	273.20	-63.58	-13.00	-50.58	1.01 H	21	41.10	-104.68
6	495.32	-58.42	-13.00	-45.42	1.99 H	173	41.39	-99.81

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.



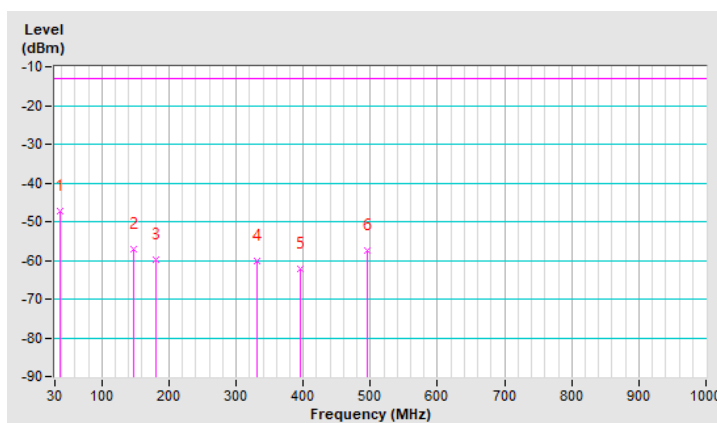
RF Mode	TX LTE Band XVII-5MHz	Channel	CH 23790 : 710.0 MHz
Frequency Range	30MHz ~ 1GHz		

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	37.03	-47.25	-13.00	-34.25	1.99 V	298	60.20	-107.45
2	148.09	-57.21	-13.00	-44.21	1.00 V	288	48.86	-106.07
3	180.42	-59.98	-13.00	-46.98	1.00 V	300	47.34	-107.32
4	330.84	-60.23	-13.00	-47.23	1.99 V	163	42.93	-103.16
5	395.51	-62.19	-13.00	-49.19	1.00 V	135	40.02	-102.21
6	495.32	-57.55	-13.00	-44.55	1.50 V	148	42.26	-99.81

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.

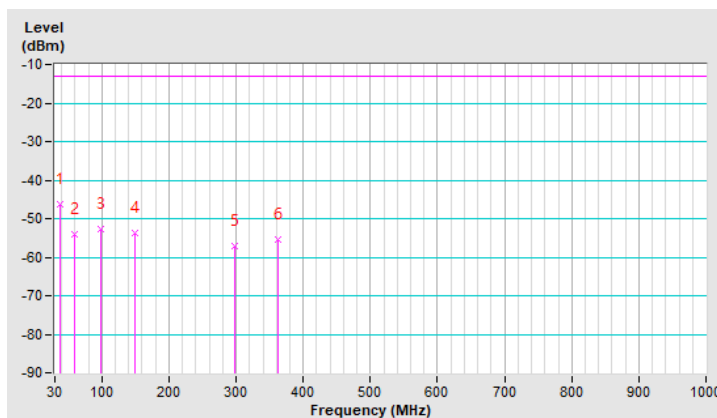


RF Mode	TX LTE Band 66-5MHz	Channel	CH 132647 : 1777.5 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.03	-46.21	-13.00	-33.21	1.51 H	225	59.09	-105.30
2	59.52	-54.15	-13.00	-41.15	1.01 H	207	50.49	-104.64
3	98.88	-52.76	-13.00	-39.76	1.99 H	126	55.94	-108.70
4	149.49	-53.82	-13.00	-40.82	1.99 H	144	49.94	-103.76
5	297.10	-57.12	-13.00	-44.12	1.99 H	6	44.76	-101.88
6	363.17	-55.31	-13.00	-42.31	1.01 H	263	45.24	-100.55

Remarks:

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



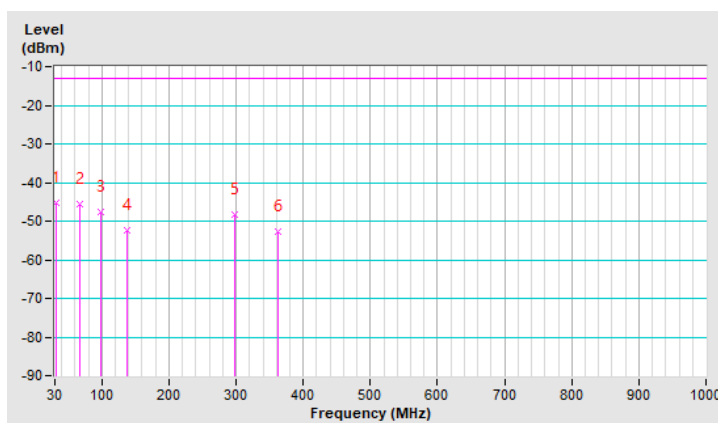
RF Mode	TX LTE Band 66-5MHz	Channel	CH 132647 : 1777.5 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3m

No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	31.41	-45.17	-13.00	-32.17	1.00 V	186	61.12	-106.29
2	66.55	-45.48	-13.00	-32.48	1.49 V	5	60.04	-105.52
3	98.88	-47.74	-13.00	-34.74	1.00 V	69	60.96	-108.70
4	136.84	-52.44	-13.00	-39.44	1.00 V	100	52.11	-104.55
5	297.10	-48.29	-13.00	-35.29	1.00 V	103	53.59	-101.88
6	363.17	-52.58	-13.00	-39.58	1.49 V	98	47.97	-100.55

Remarks:

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

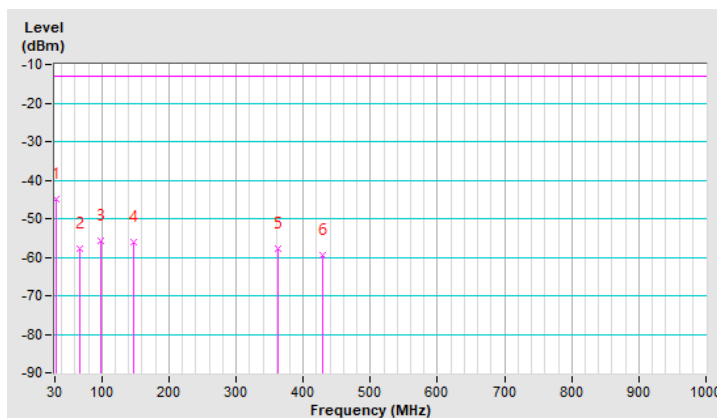


RF Mode	TX LTE Band 71-5MHz	Channel	CH 133147 : 665.5 MHz
Frequency Range	30MHz ~ 1GHz		

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	32.81	-45.08	-13.00	-32.08	1.00 H	155	63.21	-108.29
2	66.55	-57.84	-13.00	-44.84	1.99 H	16	49.83	-107.67
3	98.88	-55.65	-13.00	-42.65	1.99 H	142	55.20	-110.85
4	148.09	-56.05	-13.00	-43.05	1.99 H	137	50.02	-106.07
5	363.17	-57.64	-13.00	-44.64	1.00 H	258	45.06	-102.70
6	429.25	-59.46	-13.00	-46.46	1.49 H	161	41.63	-101.09

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



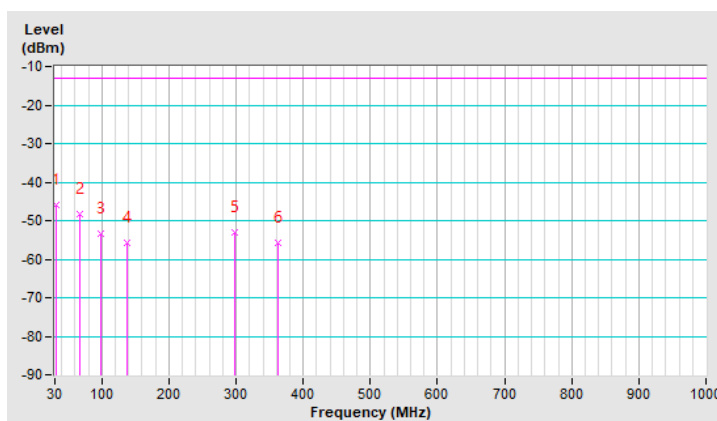
RF Mode	TX LTE Band 71-5MHz	Channel	CH 133147 : 665.5 MHz
Frequency Range	30MHz ~ 1GHz		

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	31.41	-45.99	-13.00	-32.99	1.01 V	233	62.45	-108.44
2	66.55	-48.37	-13.00	-35.37	1.51 V	7	59.30	-107.67
3	98.88	-53.40	-13.00	-40.40	1.01 V	68	57.45	-110.85
4	136.84	-55.77	-13.00	-42.77	1.01 V	118	50.93	-106.70
5	297.10	-52.90	-13.00	-39.90	1.01 V	53	51.13	-104.03
6	363.17	-55.67	-13.00	-42.67	1.99 V	202	47.03	-102.70

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
4. The other ERP levels were very low against the limit.



ABOVE 1GHz

RF Mode	TX WCDMA Band IV	Channel	CH 19957 : 1710.7 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3424.80	-50.55	-13.00	-37.55	1.54 H	316	44.57	-95.12
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3424.80	-48.79	-13.00	-35.79	2.29 V	1	46.33	-95.12

Remarks:

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

RF Mode	TX WCDMA Band IV	Channel	CH 20175 : 1732.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.20	-50.05	-13.00	-37.05	1.49 H	313	44.57	-94.62
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.20	-48.30	-13.00	-35.30	2.34 V	5	46.32	-94.62

Remarks:

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

RF Mode	TX WCDMA Band IV	Channel	CH 1513 : 1752.6 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3505.20	-50.25	-13.00	-37.25	1.54 H	315	43.89	-94.14

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3505.20	-48.09	-13.00	-35.09	2.27 V	4	46.05	-94.14

Remarks:

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

RF Mode	TX LTE Band IV-1.4MHz	Channel	CH 19957 : 1710.7 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3421.40	-46.00	-13.00	-33.00	1.42 H	230	49.29	-95.29
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3421.40	-46.90	-13.00	-33.90	2.14 V	270	48.39	-95.29

Remarks:

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

RF Mode	TX LTE Band IV-1.4MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-46.40	-13.00	-33.40	1.40 H	229	48.34	-94.74
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-47.00	-13.00	-34.00	2.11 V	267	47.74	-94.74

Remarks:

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

RF Mode	TX LTE Band IV-1.4MHz	Channel	CH 20393 : 1754.3 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3508.60	-45.30	-13.00	-32.30	1.47 H	233	48.92	-94.22
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3508.60	-46.20	-13.00	-33.20	2.17 V	268	48.02	-94.22

Remarks:

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

RF Mode	TX LTE Band IV-5MHz	Channel	CH 19975 : 1712.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3425.00	-46.57	-13.00	-33.57	1.45 H	230	48.67	-95.24

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3425.00	-47.13	-13.00	-34.13	2.09 V	267	48.11	-95.24

Remarks:

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

RF Mode	TX LTE Band IV-5MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-45.98	-13.00	-32.98	1.41 H	233	48.76	-94.74

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-47.22	-13.00	-34.22	2.14 V	271	47.52	-94.74

Remarks:

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

RF Mode	TX LTE Band IV-5MHz	Channel	CH 20375 : 1752.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3505.00	-45.64	-13.00	-32.64	1.43 H	227	48.61	-94.25

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3505.00	-46.44	-13.00	-33.44	2.10 V	269	47.81	-94.25

Remarks:

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

RF Mode	TX LTE Band IV-20MHz	Channel	CH 20050 : 1720 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-46.57	-13.00	-33.57	1.46 H	227	48.49	-95.06

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-47.25	-13.00	-34.25	2.10 V	273	47.81	-95.06

Remarks:

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

RF Mode	TX LTE Band IV-20MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-45.44	-13.00	-32.44	1.40 H	231	49.30	-94.74

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-46.33	-13.00	-33.33	2.10 V	268	48.41	-94.74

Remarks:

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

RF Mode	TX LTE Band IV-20MHz	Channel	CH 20300 : 1745 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	3490.00	-45.73	-13.00	-32.73	1.45 H	229	48.69	-94.42
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	3490.00	-46.15	-13.00	-33.15	2.09 V	272	48.27	-94.42

Remarks:

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

RF Mode	TX LTE Band XII-1.4MHz	Channel	CH 23017 : 699.7 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1399.40	-40.31	-13.00	-27.31	1.55 H	339	62.11	-102.42

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	1399.40	-51.78	-13.00	-38.78	2.74 V	69	50.64	-102.42

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.

RF Mode	TX LTE Band XII-1.4MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1415.00	-40.48	-13.00	-27.48	1.55 H	336	61.91	-102.39

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	1415.00	-52.18	-13.00	-39.18	2.70 V	70	50.21	-102.39

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.

RF Mode	TX LTE Band XII-1.4MHz	Channel	CH 23173 : 715.3 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1430.60	-41.07	-13.00	-28.07	1.59 H	340	61.28	-102.35
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	1430.60	-52.31	-13.00	-39.31	2.74 V	72	50.04	-102.35

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
4. The other ERP levels were very low against the limit.

RF Mode	TX LTE Band XII-5MHz	Channel	CH 23035 : 701.5 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1403.00	-41.21	-13.00	-28.21	1.56 H	342	61.20	-102.41

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	1403.00	-52.34	-13.00	-39.34	2.72 V	70	50.07	-102.41

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.

RF Mode	TX LTE Band XII-5MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1415.00	-40.67	-13.00	-27.67	1.60 H	338	61.72	-102.39

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	1415.00	-52.10	-13.00	-39.10	2.78 V	68	50.29	-102.39

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.

RF Mode	TX LTE Band XII-5MHz	Channel	CH 23155 : 713.5 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1427.00	-41.06	-13.00	-28.06	1.58 H	337	61.30	-102.36

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	1427.00	-52.25	-13.00	-39.25	2.74 V	66	50.11	-102.36

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.

RF Mode	TX LTE Band XII-10MHz	Channel	CH 23060 : 704 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1408.00	-40.80	-13.00	-27.80	1.59 H	340	61.61	-102.41
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	1408.00	-52.13	-13.00	-39.13	2.67 V	70	50.28	-102.41

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.

RF Mode	TX LTE Band XII-10MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1415.00	-40.28	-13.00	-27.28	1.50 H	339	62.11	-102.39
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	1415.00	-51.75	-13.00	-38.75	2.74 V	71	50.64	-102.39

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.

RF Mode	TX LTE Band XII-10MHz	Channel	CH 23130 : 711 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1422.00	-41.27	-13.00	-28.27	1.58 H	341	61.11	-102.38
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	1422.00	-52.15	-13.00	-39.15	2.76 V	71	50.23	-102.38

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

RF Mode	TX LTE Band XIII-5MHz	Channel	CH 23205 : 779.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1559.00	-41.44	-40.00	-1.44	1.65 H	294	58.81	-100.25
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1559.00	-40.85	-40.00	-0.85	1.68 V	264	59.40	-100.25

Remarks:

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

RF Mode	TX LTE Band XIII-5MHz	Channel	CH 23230 : 782 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-41.04	-40.00	-1.04	1.71 H	266	59.21	-100.25
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-42.03	-40.00	-2.03	1.70 V	295	58.22	-100.25

Remarks:

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

RF Mode	TX LTE Band XIII-5MHz	Channel	CH 23255 : 784.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1569.00	-42.26	-40.00	-2.26	1.68 H	291	58.02	-100.28

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1569.00	-41.23	-40.00	-1.23	1.71 V	267	59.05	-100.28

Remarks:

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

RF Mode	TX LTE Band XIII-10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	1564.00	-41.46	-40.00	-1.46	1.63 H	297	58.79	-100.25
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	1564.00	-40.86	-40.00	-0.86	1.72 V	261	59.39	-100.25

Remarks:

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

RF Mode	TX LTE Band XVII-5MHz	Channel	CH 23755 : 706.5 MHz
Frequency Range	1GMHz ~ 18GHz		

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	1413.00	-51.00	-13.00	-38.00	2.77 H	68	51.40	-102.40
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	1413.00	-56.10	-13.00	-43.10	1.55 V	59	46.20	-102.30

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.

RF Mode	TX LTE Band XVII-5MHz	Channel	CH 23790 : 710.5 MHz
Frequency Range	1GMHz ~ 18GHz		

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	1420.00	-40.52	-13.00	-27.52	1.58 H	337	61.86	-102.38
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	1420.00	-53.10	-13.00	-40.10	2.77 V	50	49.28	-102.38

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
4. The other ERP levels were very low against the limit.

RF Mode	TX LTE Band XVII-5MHz	Channel	CH 23825 : 713.5 MHz
Frequency Range	1GMHz ~ 18GHz		

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	1427.00	-41.28	-13.00	-28.28	1.61 H	333	61.08	-102.36
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	1427.00	-53.20	-13.00	-40.20	2.67 V	68	49.16	-102.36

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.

RF Mode	TX LTE Band XVII-10MHz	Channel	CH 23780 : 709.0 MHz
Frequency Range	1GMHz ~ 18GHz		

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	1418.00	-41.80	-13.00	-28.80	1.56 H	348	60.57	-102.37

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	1418.00	-52.90	-13.00	-39.90	2.80 V	79	49.47	-102.37

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.

RF Mode	TX LTE Band XVII-10MHz	Channel	CH 23790 : 710.0 MHz
Frequency Range	1GMHz ~ 18GHz		

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	1420.00	-41.80	-13.00	-28.80	1.66 H	337	60.58	-102.38

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	1420.00	-54.20	-13.00	-41.20	2.89 V	60	48.18	-102.38

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
4. The other ERP levels were very low against the limit.

RF Mode	TX LTE Band XVII-10MHz	Channel	CH 23800 : 711.0 MHz
Frequency Range	1GMHz ~ 18GHz		

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	1422.00	-42.00	-13.00	-29.00	1.63 H	360	60.38	-102.38
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	1422.00	-53.60	-13.00	-40.60	2.77 V	80	48.78	-102.38

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

RF Mode	TX LTE Band 66-1.4MHz	Channel	CH 131979 : 1710.7 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3421.40	-46.58	-13.00	-33.58	1.36 H	277	48.71	-95.29
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3421.40	-48.18	-13.00	-35.18	2.25 V	246	47.11	-95.29

Remarks:

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

RF Mode	TX LTE Band 66-1.4MHz	Channel	CH 132322 : 1745.0 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-46.49	-13.00	-33.49	1.39 H	278	47.93	-94.42
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-48.21	-13.00	-35.21	2.27 V	249	46.21	-94.42

Remarks:

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

RF Mode	TX LTE Band 66-1.4MHz	Channel	CH 132665 : 1779.3 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3558.60	-45.89	-13.00	-32.89	1.36 H	279	47.92	-93.81
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3558.60	-47.46	-13.00	-34.46	2.21 V	245	46.35	-93.81

Remarks:

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

RF Mode	TX LTE Band 66-5MHz	Channel	CH 131997 : 1712.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3425.00	-47.22	-13.00	-34.22	1.41 H	278	48.02	-95.24
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3425.00	-48.45	-13.00	-35.45	2.23 V	243	46.79	-95.24

Remarks:

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

RF Mode	TX LTE Band 66-5MHz	Channel	CH 132322 : 1745.0 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-46.37	-13.00	-33.37	1.35 H	280	48.05	-94.42
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-47.68	-13.00	-34.68	2.30 V	249	46.74	-94.42

Remarks:

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

RF Mode	TX LTE Band 66-5MHz	Channel	CH 132647 : 1777.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3555.00	-45.33	-13.00	-32.33	1.33 H	277	48.51	-93.84

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3555.00	-47.42	-13.00	-34.42	2.30 V	250	46.42	-93.84

Remarks:

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

RF Mode	TX LTE Band 66-20MHz	Channel	CH 132072 : 1720.0 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-47.12	-13.00	-34.12	1.36 H	275	47.94	-95.06
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-48.74	-13.00	-35.74	2.25 V	244	46.32	-95.06

Remarks:

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

RF Mode	TX LTE Band 66-20MHz	Channel	CH 132322 : 1745.0 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-45.71	-13.00	-32.71	1.31 H	277	48.71	-94.42
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-47.31	-13.00	-34.31	2.29 V	249	47.11	-94.42

Remarks:

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

RF Mode	TX LTE Band 66-20MHz	Channel	CH 132572 : 1770.0 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3540.00	-46.08	-13.00	-33.08	1.34 H	279	47.88	-93.96
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3540.00	-46.95	-13.00	-33.95	2.25 V	247	47.01	-93.96

Remarks:

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

RF Mode	TX LTE Band 71-5MHz	Channel	CH 133147: 665.5MHz
Frequency Range	1GMHz ~ 20GHz		

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	1331.00	-53.43	-13.00	-40.43	1.57 H	258	48.88	-102.31
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	1331.00	-57.09	-13.00	-44.09	1.59 V	57	45.22	-102.31

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.

RF Mode	TX LTE Band 71-5MHz	Channel	CH 133297 : 680.5 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1361.00	-53.79	-13.00	-40.79	1.57 H	260	48.58	-102.37
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	1361.00	-58.06	-13.00	-45.06	1.54 V	62	44.31	-102.37

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.

RF Mode	TX LTE Band 71-5MHz	Channel	CH 133447 : 695.5 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1391.00	-54.43	-13.00	-41.43	1.59 H	262	47.98	-102.41
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	1391.00	-57.51	-13.00	-44.51	1.58 V	58	44.90	-102.41

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.

RF Mode	TX LTE Band 71-20MHz	Channel	CH 133222 : 673.0 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1346.00	-53.61	-13.00	-40.61	1.57 H	261	48.73	-102.34

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	1346.00	-58.02	-13.00	-45.02	1.62 V	62	44.32	-102.34

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
4. The other ERP levels were very low against the limit.

RF Mode	TX LTE Band 71-20MHz	Channel	CH 133297 : 680.0 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1361.00	-53.49	-13.00	-40.49	1.60 H	257	48.88	-102.37

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	1361.00	-57.15	-13.00	-44.15	1.58 V	65	45.22	-102.37

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.

RF Mode	TX LTE Band 71-20MHz	Channel	CH 133372 : 688.0 MHz
Frequency Range	1GMHz ~ 20GHz		

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	1376.00	-53.61	-13.00	-40.61	1.59 H	258	48.78	-102.39

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	1376.00	-57.37	-13.00	-44.37	1.58 V	56	45.02	-102.39

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 according to ISO/IEC 17025.

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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