FCC Test Report
(ENDC: n77+B2/B7/B12/B66)

Report No.: RFBBQZ-WTW-P21031117-3

FCC ID: PY320400515

Test Model: MR5200

Received Date: Mar. 31, 2021

Test Date: May 04 ~ May 09, 2021

Issued Date: May 19, 2021

Applicant and Manufacturer: NETGEAR INC.

Address: 350 East Plumeria Drive, San Jose, CA 95134, USA

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

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

Table of Contents

Release Control Record **4**

1 Certificate of Conformity **5**

2 Summary of Test Results **6**

2.1 Measurement Uncertainty 8
2.2 Test Site and Instruments 9

3 General Information **11**

3.1 General Description of EUT 11
3.2 Configuration of System under Test 17
3.2.1 Description of Support Units 17
3.3 Test Mode Applicability and Tested Channel Detail 18
3.4 EUT Operating Conditions 26
3.5 General Description of Applied Standards and References 26

4 Test Types and Results **27**

4.1 Output Power Measurement 27
4.1.1 Limits of Output Power Measurement 27
4.1.2 Test Procedures 28
4.1.3 Test Setup 29
4.1.4 Test Results 30
4.2 Modulation Characteristics Measurement 153
4.2.1 Limits of Modulation Characteristics 153
4.2.2 Test Procedure 153
4.2.3 Test Setup 153
4.2.4 Test Results 154
4.3 Frequency Stability Measurement 155
4.3.1 Limits of Frequency Stability Measurement 155
4.3.2 Test Procedure 155
4.3.3 Test Instruments 155
4.3.4 Test Setup 155
4.3.5 Test Results 156
4.4 Occupied Bandwidth Measurement 163
4.4.1 Test Procedure 163
4.4.2 Test Setup 163
4.4.3 Test Result 164
4.5 Band Edge Measurement 170
4.5.1 Limits of Band Edge Measurement 170
4.5.2 Test Setup 170
4.5.3 Test Procedures 170
4.5.4 Test Results 171
4.6 Peak to Average Ratio 178
4.6.1 Limits of Peak to Average Ratio Measurement 178
4.6.2 Test Setup 178
4.6.3 Test Procedures 178
4.6.4 Test Results 179
4.7 Conducted Spurious Emissions 182
4.7.1 Limits of Conducted Spurious Emissions Measurement 182
4.7.2 Test Setup 182
4.7.3 Test Procedure 182
4.7.4 Test Results 183
4.8 Radiated Emission Measurement 204
4.8.1 Limits of Radiated Emission Measurement 204
4.8.2 Test Procedure 205
4.8.3 Deviation from Test Standard 205
4.8.4 Test Setup 206

4.8.5 Test Results 207
5 Pictures of Test Arrangements 283
Appendix – Information of the Testing Laboratories 284

Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P21031117-3	Original release	May 19, 2021

1 Certificate of Conformity

Product: 5G MHS Travel Router

Brand: NETGEAR

Test Model: MR5200

Sample Status: Engineering sample

Applicant: NETGEAR INC.

Test Date: May 04 ~ May 09, 2021

Standards: FCC Part 24, Subpart E
FCC Part 27, Subpart C, H, L, M, O

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 : Pettie Chen , **Date:** May 19, 2021

Pettie Chen / Senior Specialist

Approved by : Bruce Chen , **Date:** May 19, 2021

Bruce Chen / Senior Project Engineer

2 Summary of Test Results

For 5GNR n77:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (j)	Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
----	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.
2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53(l)	Band Edge / Out of Band Emissions Measurements	Pass	Meet the requirement of limit.
2.1051 27.53(l)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53(l)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -8.26dB at 7450.02MHz.

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

For LTE Band 2:

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232 (d)	Peak To Average Ratio	Pass	Refer to Note 1
2.1047	Modulation Characteristics	Pass	Refer to Note 1
2.1055 24.235	Frequency Stability	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
24.238	Band Edge Measurements	Pass	Refer to Note 1
2.1051 24.238	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -32.70dB at 83.42MHz.

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBBQZ-WTW-P20120749-4
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 7:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (h)(2)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
----	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (m)(4)(6)	Band Edge / Out of Band Emissions Measurements	Pass	Refer to Note 1
2.1051 27.53 (m)(4)(6)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (m)(4)(6)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -18.20dB at 84.83MHz.

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBBQZ-WTW-P20120749-5.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 12, LTE Band 66

Applied Standard: FCC Part 27 & Part 2				
FCC Clause		Test Item	Result	Remarks
LTE B12	LTE B66			
2.1046 27.50 (c)	2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power / Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	2.1047	Modulation Characteristics	Pass	Refer to Note 1
----	27.50 (d)(5)	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (g)	2.1051 27.53 (h)	Band Edge / Out of Band Emissions Measurements	Pass	Refer to Note 1
2.1051 27.53 (g)	2.1051 27.53 (h)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (g)	2.1053 27.53 (h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -33.80dB at 84.83MHz.

Note:

1. This report is a partial report. Therefore, only test item of Transmitter Output Power and Equivalent Isotropically Radiated Power / Equivalent Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBBQZ-WTW-P20120749-5.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 09, 2021	Apr. 08, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSW43	101866	Dec. 14, 2020	Dec. 13, 2021
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2020	Nov. 24, 2021
5G Wireless Test Platforms Keysight	E7515B	MY60102114	May 28, 2020	May 27, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 17, 2021	Feb. 16, 2022
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Standard Temperature And Humidity Chamber GIANT FORCE	GTH-120-40-CP-AR	MAA1306-019	Sep. 10, 2020	Sep. 09, 2021

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021
DC power supply Keysight	U8002A	MY56330015	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.

3 General Information

3.1 General Description of EUT

Product	5G MHS Travel Router
Brand	NETGEAR
Test Model	MR5200
Sample Status	Engineering Sample
Power Supply Rating	5 or 9Vdc (adapter) 5Vdc (host equipment) 3.85Vdc (battery)

n77

Modulation Type	$\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM					
Waveform Type	CP-OFDM, DFT-s-OFDM					
Operating Frequency	n77 (Channel Bandwidth 20MHz)	3710.01MHz ~ 3969.99MHz				
	n77 (Channel Bandwidth 40MHz)	3720.00MHz ~ 3960.00MHz				
	n77 (Channel Bandwidth 50MHz)	3725.01MHz ~ 3954.99MHz				
	n77 (Channel Bandwidth 60MHz)	3730.02MHz ~ 3949.98MHz				
	n77 (Channel Bandwidth 80MHz)	3740.01MHz ~ 3939.99MHz				
	n77 (Channel Bandwidth 90MHz)	3745.02MHz ~ 3934.98MHz				
	n77 (Channel Bandwidth 100MHz)	3750.00MHz ~ 3930.00MHz				
Max. EIRP Power (Internal Antenna)		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n77 (Channel Bandwidth 20MHz)	159.221mW (22.02dBm)	165.577mW (22.19dBm)	123.880mW (20.93dBm)	122.744mW (20.89dBm)	84.918mW (19.29dBm)
	n77 (Channel Bandwidth 40MHz)	147.231mW (21.68dBm)	151.705mW (21.81dBm)	138.357mW (21.41dBm)	126.183mW (21.01dBm)	87.297mW (19.41dBm)
	n77 (Channel Bandwidth 50MHz)	155.239mW (21.91dBm)	163.305mW (22.13dBm)	133.660mW (21.26dBm)	112.202mW (20.50dBm)	81.283mW (19.10dBm)
	n77 (Channel Bandwidth 60MHz)	150.661mW (21.78dBm)	151.705mW (21.81dBm)	127.057mW (21.04dBm)	116.681mW (20.67dBm)	82.604mW (19.17dBm)
	n77 (Channel Bandwidth 80MHz)	151.356mW (21.80dBm)	158.489mW (22.00dBm)	134.896mW (21.30dBm)	107.152mW (20.30dBm)	75.858mW (18.80dBm)
	n77 (Channel Bandwidth 90MHz)	151.356mW (21.80dBm)	159.221mW (22.02dBm)	131.220mW (21.18dBm)	113.763mW (20.56dBm)	82.414mW (19.16dBm)
	n77 (Channel Bandwidth 100MHz)	152.055mW (21.82dBm)	164.059mW (22.15dBm)	129.420mW (21.12dBm)	112.980mW (20.53dBm)	81.096mW (19.09dBm)
Max. EIRP Power (External Antenna)		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n77 (Channel Bandwidth 20MHz)	38.194mW (15.82dBm)	41.879mW (16.22dBm)	33.343mW (15.23dBm)	26.607mW (14.25dBm)	21.232mW (13.27dBm)
	n77 (Channel Bandwidth 40MHz)	41.020mW (16.13dBm)	46.026mW (16.63dBm)	36.559mW (15.63dBm)	28.907mW (14.61dBm)	23.067mW (13.63dBm)
	n77 (Channel Bandwidth 50MHz)	42.364mW (16.27dBm)	46.345mW (16.66dBm)	36.644mW (15.64dBm)	29.040mW (14.63dBm)	23.121mW (13.64dBm)
	n77 (Channel Bandwidth 60MHz)	44.157mW (16.45dBm)	44.875mW (16.52dBm)	35.645mW (15.52dBm)	28.445mW (14.54dBm)	22.699mW (13.56dBm)
	n77 (Channel Bandwidth 80MHz)	44.157mW (16.45dBm)	44.978mW (16.53dBm)	35.727mW (15.53dBm)	28.510mW (14.55dBm)	22.751mW (13.57dBm)
	n77 (Channel Bandwidth 90MHz)	41.305mW (16.16dBm)	45.290mW (16.56dBm)	35.975mW (15.56dBm)	28.642mW (14.57dBm)	22.699mW (13.56dBm)
	n77 (Channel Bandwidth 100MHz)	43.053mW (16.34dBm)	43.853mW (16.42dBm)	35.237mW (15.47dBm)	28.379mW (14.53dBm)	21.878mW (13.40dBm)
Emission Designator		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n77 (Channel Bandwidth 20MHz)	17M8G7D	18M2G7D	18M2D7W	18M2D7W	18M2D7W
	n77 (Channel Bandwidth 40MHz)	35M7G7D	37M8G7D	37M8D7W	37M8D7W	37M8D7W
	n77 (Channel Bandwidth 50MHz)	45M7G7D	47M5G7D	47M5D7W	47M5D7W	47M5D7W
	n77 (Channel Bandwidth 60MHz)	57M8G7D	57M8G7D	57M8D7W	57M8D7W	57M8D7W
	n77 (Channel Bandwidth 80MHz)	77M0G7D	77M4G7D	77M4D7W	77M4D7W	77M4D7W
	n77 (Channel Bandwidth 90MHz)	86M6G7D	87M4G7D	87M4D7W	87M3D7W	87M3D7W
	n77 (Channel Bandwidth 100MHz)	96M3G7D	97M4G7D	97M4D7W	97M4D7W	97M4D7W

LTE Band

Modulation Type	QPSK, 16QAM, 64QAM, 256QAM					
Operating Frequency	LTE Band 2	Channel Bandwidth 1.4MHz	1850.7MHz ~ 1909.3MHz			
		Channel Bandwidth 3MHz	1851.5MHz ~ 1908.5MHz			
		Channel Bandwidth 5MHz	1852.5MHz ~ 1907.5MHz			
		Channel Bandwidth 10MHz	1855.0MHz ~ 1905.0MHz			
		Channel Bandwidth 15MHz	1857.5MHz ~ 1902.5MHz			
		Channel Bandwidth 20MHz	1860.0MHz ~ 1900.0MHz			
	LTE Band 7	Channel Bandwidth 5MHz	2502.5MHz ~ 2567.5MHz			
		Channel Bandwidth 10MHz	2505.0MHz ~ 2565.0MHz			
		Channel Bandwidth 15MHz	2507.5MHz ~ 2562.5MHz			
		Channel Bandwidth 20MHz	2510.0MHz ~ 2560.0MHz			
	LTE Band 12	Channel Bandwidth 1.4MHz	699.7MHz ~ 715.3MHz			
		Channel Bandwidth 3MHz	700.5MHz ~ 714.5MHz			
		Channel Bandwidth 5MHz	701.5MHz ~ 713.5MHz			
		Channel Bandwidth 10MHz	704.0MHz ~ 711.0MHz			
	LTE Band 66	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1779.3MHz			
		Channel Bandwidth 3MHz	1711.5MHz ~ 1778.5MHz			
		Channel Bandwidth 5MHz	1712.5MHz ~ 1777.5MHz			
		Channel Bandwidth 10MHz	1715.0MHz ~ 1775.0MHz			
		Channel Bandwidth 15MHz	1717.5MHz ~ 1772.5MHz			
		Channel Bandwidth 20MHz	1720.0MHz ~ 1770.0MHz			
Max. EIRP Power (Internal Antenna)			QPSK	16QAM	64QAM	256QAM
	LTE Band 2	Channel Bandwidth 1.4MHz	93.756mW (19.72dBm)	74.131mW (18.70dBm)	59.020mW (17.71dBm)	47.098mW (16.73dBm)
		Channel Bandwidth 3MHz	97.275mW (19.88dBm)	76.913mW (18.86dBm)	61.094mW (17.86dBm)	48.529mW (16.86dBm)
		Channel Bandwidth 5MHz	90.365mW (19.56dBm)	77.983mW (18.92dBm)	61.660mW (17.90dBm)	48.865mW (16.89dBm)
		Channel Bandwidth 10MHz	98.628mW (19.94dBm)	77.983mW (18.92dBm)	62.230mW (17.94dBm)	49.317mW (16.93dBm)
		Channel Bandwidth 15MHz	97.724mW (19.90dBm)	80.724mW (19.07dBm)	64.269mW (18.08dBm)	50.816mW (17.06dBm)
		Channel Bandwidth 20MHz	98.855mW (19.95dBm)	77.983mW (18.92dBm)	62.087mW (17.93dBm)	49.545mW (16.95dBm)
	LTE Band 7	Channel Bandwidth 5MHz	106.414mW (20.27dBm)	80.353mW (19.05dBm)	64.121mW (18.07dBm)	50.816mW (17.06dBm)
		Channel Bandwidth 10MHz	104.954mW (20.21dBm)	83.368mW (19.21dBm)	66.527mW (18.23dBm)	52.723mW (17.22dBm)
		Channel Bandwidth 15MHz	105.196mW (20.22dBm)	83.946mW (19.24dBm)	66.834mW (18.25dBm)	53.333mW (17.27dBm)
		Channel Bandwidth 20MHz	95.499mW (19.80dBm)	75.509mW (18.78dBm)	59.704mW (17.76dBm)	47.534mW (16.77dBm)
	LTE Band 66	Channel Bandwidth 1.4MHz	110.154mW (20.42dBm)	89.125mW (19.50dBm)	77.983mW (18.92dBm)	61.944mW (17.92dBm)
		Channel Bandwidth 3MHz	117.220mW (20.69dBm)	95.280mW (19.79dBm)	85.704mW (19.33dBm)	53.211mW (17.26dBm)
		Channel Bandwidth 5MHz	119.950mW (20.79dBm)	91.622mW (19.62dBm)	82.985mW (19.19dBm)	57.016mW (17.56dBm)
		Channel Bandwidth 10MHz	118.577mW (20.74dBm)	96.605mW (19.85dBm)	83.560mW (19.22dBm)	55.463mW (17.44dBm)
		Channel Bandwidth 15MHz	118.850mW (20.75dBm)	98.175mW (19.92dBm)	85.114mW (19.30dBm)	53.827mW (17.31dBm)
		Channel Bandwidth 20MHz	112.720mW (20.52dBm)	94.842mW (19.77dBm)	88.512mW (19.47dBm)	58.479mW (17.67dBm)

			QPSK	16QAM	64QAM	256QAM
Max. EIRP Power (External Antenna)	LTE Band 2	Channel Bandwidth 1.4MHz	62.517mW (17.96dBm)	49.888mW (16.98dBm)	39.446mW (15.96dBm)	31.405mW (14.97dBm)
		Channel Bandwidth 3MHz	62.087mW (17.93dBm)	52.360mW (17.19dBm)	41.591mW (16.19dBm)	33.113mW (15.20dBm)
		Channel Bandwidth 5MHz	62.951mW (17.99dBm)	50.119mW (17.00dBm)	39.902mW (16.01dBm)	31.550mW (14.99dBm)
		Channel Bandwidth 10MHz	60.814mW (17.84dBm)	48.084mW (16.82dBm)	38.371mW (15.84dBm)	30.620mW (14.86dBm)
		Channel Bandwidth 15MHz	62.806mW (17.98dBm)	52.481mW (17.20dBm)	41.591mW (16.19dBm)	33.037mW (15.19dBm)
		Channel Bandwidth 20MHz	61.235mW (17.87dBm)	48.417mW (16.85dBm)	38.548mW (15.86dBm)	30.690mW (14.87dBm)
	LTE Band 7	Channel Bandwidth 5MHz	93.541mW (19.71dBm)	73.961mW (18.69dBm)	59.020mW (17.71dBm)	46.989mW (16.72dBm)
		Channel Bandwidth 10MHz	85.507mW (19.32dBm)	68.077mW (18.33dBm)	54.075mW (17.33dBm)	43.152mW (16.35dBm)
		Channel Bandwidth 15MHz	91.201mW (19.60dBm)	72.111mW (18.58dBm)	57.016mW (17.56dBm)	45.186mW (16.55dBm)
		Channel Bandwidth 20MHz	92.897mW (19.68dBm)	73.961mW (18.69dBm)	59.020mW (17.71dBm)	47.098mW (16.73dBm)
	LTE Band 66	Channel Bandwidth 1.4MHz	87.096mW (19.40dBm)	69.183mW (18.40dBm)	57.544mW (17.60dBm)	45.709mW (16.60dBm)
		Channel Bandwidth 3MHz	89.125mW (19.50dBm)	70.795mW (18.50dBm)	56.234mW (17.50dBm)	44.668mW (16.50dBm)
		Channel Bandwidth 5MHz	91.201mW (19.60dBm)	72.444mW (18.60dBm)	57.544mW (17.60dBm)	45.709mW (16.60dBm)
		Channel Bandwidth 10MHz	83.176mW (19.20dBm)	66.069mW (18.20dBm)	54.954mW (17.40dBm)	43.652mW (16.40dBm)
		Channel Bandwidth 15MHz	91.201mW (19.60dBm)	72.444mW (18.60dBm)	61.660mW (17.90dBm)	48.978mW (16.90dBm)
		Channel Bandwidth 20MHz	97.724mW (19.90dBm)	77.625mW (18.90dBm)	63.096mW (18.00dBm)	50.119mW (17.00dBm)
Max. ERP Power (Internal Antenna)			QPSK	16QAM	64QAM	256QAM
	LTE Band 12	Channel Bandwidth 1.4MHz	264.241mW (24.22dBm)	204.644mW (23.11dBm)	198.609mW (22.98dBm)	110.662mW (20.44dBm)
		Channel Bandwidth 3MHz	261.818mW (24.18dBm)	209.411mW (23.21dBm)	189.671mW (22.78dBm)	103.039mW (20.13dBm)
		Channel Bandwidth 5MHz	263.027mW (24.20dBm)	207.014mW (23.16dBm)	188.365mW (22.75dBm)	118.032mW (20.72dBm)
		Channel Bandwidth 10MHz	267.301mW (24.27dBm)	211.836mW (23.26dBm)	165.577mW (22.19dBm)	128.233mW (21.08dBm)
Max. ERP Power (External Antenna)			QPSK	16QAM	64QAM	256QAM
	LTE Band 12	Channel Bandwidth 1.4MHz	75.683mW (18.79dBm)	60.117mW (17.79dBm)	47.643mW (16.78dBm)	38.019mW (15.80dBm)
		Channel Bandwidth 3MHz	73.621mW (18.67dBm)	58.479mW (17.67dBm)	46.666mW (16.69dBm)	37.154mW (15.70dBm)
		Channel Bandwidth 5MHz	73.451mW (18.66dBm)	58.210mW (17.65dBm)	46.132mW (16.64dBm)	36.728mW (15.65dBm)
		Channel Bandwidth 10MHz	74.817mW (18.74dBm)	59.293mW (17.73dBm)	46.989mW (16.72dBm)	37.325mW (15.72dBm)
Antenna Type	Refer to Note					
Antenna Connector	Refer to Note					
Accessory Device	Adapter x1, battery x1					
Cable Supplied	1m shielded USB cable without core (Brand: NIENYI, model: NYS2371-1)					

Output Power / Emission Designator (Internal Antenna)	n77+LTE Band 2		Maximum EIRP	Sum Bandwidth
		n77	165.577mW (22.19dBm)	36M1G7D
		LTE Band 2 (EIRP)	98.855mW (19.95dBm)	
			EIRP	MAX Sum Bandwidth
		n77	164.059mW (22.15dBm)	116MG7D
		LTE Band 2 (EIRP)	98.855mW (19.95dBm)	
	n77+LTE Band 7		Maximum EIRP	Sum Bandwidth
		n77	165.577mW (22.19dBm)	22M7G7D
		LTE Band 7 (EIRP)	106.414mW (20.27dBm)	
			EIRP	MAX Sum Bandwidth
		n77	164.059mW (22.15dBm)	116MG7D
		LTE Band 7 (EIRP)	95.499mW (19.80dBm)	
	n77+LTE Band 12		Maximum EIRP	Sum Bandwidth
		n77	165.577mW (22.19dBm)	27M2G7D
		LTE Band 12 (ERP)	267.301mW (24.27dBm)	
			EIRP	MAX Sum Bandwidth
		n77	164.059mW (22.15dBm)	107MG7D
		LTE Band 12 (ERP)	165.577mW (22.19dBm)	
	n77+LTE Band 66		Maximum EIRP	Sum Bandwidth
		n77	165.577mW (22.19dBm)	22M6G7D
		LTE Band 66 (EIRP)	119.950mW (20.79dBm)	
			EIRP	MAX Sum Bandwidth
		n77	164.059mW (22.15dBm)	116MG7D
		LTE Band 66 (EIRP)	94.842mW (19.77dBm)	

Output Power / Emission Designator (External Antenna)	n77+LTE Band 2		Maximum EIRP	Sum Bandwidth
		n77	46.345mW (16.66dBm)	52M0G7D
		LTE Band 2 (EIRP)	62.951mW (17.99dBm)	
			EIRP	MAX Sum Bandwidth
		n77	43.853mW (16.42dBm)	116MG7D
		LTE Band 2 (EIRP)	61.235mW (17.87dBm)	
	n77+LTE Band 7		Maximum EIRP	Sum Bandwidth
		n77	46.345mW (16.66dBm)	52M0G7D
		LTE Band 7 (EIRP)	93.541mW (19.71dBm)	
			EIRP	MAX Sum Bandwidth
		n77	43.853mW (16.42dBm)	116MG7D
		LTE Band 7 (EIRP)	92.897mW (19.68dBm)	
	n77+LTE Band 12		Maximum EIRP	Sum Bandwidth
		n77	46.345mW (16.66dBm)	48M6G7D
		LTE Band 12 (ERP)	75.683mW (18.79dBm)	
			EIRP	MAX Sum Bandwidth
		n77	43.853mW (16.42dBm)	107MG7D
		LTE Band 12 (ERP)	46.989mW (16.72dBm)	
	n77+LTE Band 66		Maximum EIRP	Sum Bandwidth
		n77	46.345mW (16.66dBm)	52M0G7D
		LTE Band 66 (EIRP)	91.201mW (19.60dBm)	
			EIRP	MAX Sum Bandwidth
		n77	43.853mW (16.42dBm)	116MG7D
		LTE Band 66 (EIRP)	77.625mW (18.90dBm)	

Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report of BV CPS report no.: RFBBQZ-WTW-P20120749-6. Differences compared with the original report are changing model and adding ENDC n77A. Therefore, the EUT was tested and presented in the test report.
2. The EUT uses following adapter and battery.

Adapter	
Brand	NETGEAR
Model	AD2122F20
P/N	332-11106-01
Input Power	100-240Vac, 50-60Hz, 0.5A
Output Power	5Vdc, 2.0A 9Vdc, 1.8A

Battery	
Brand	NETGEAR
Model	W-20
Rating	3.85Vdc ,19.40Wh

3. The following antennas were provided to the EUT.

Internal Antenna

No.	Type	Connector	Gain (dBi)							
			B2	B5	B7	B12	B41	B66	B71	B77
1	Monopole	NA	1.83	-0.23	2.66	1.24	2.66	-0.01	0.91	-
2	Monopole	NA	1.03	-0.38	2.56	-	-	0.34	-	3.90

External Antenna

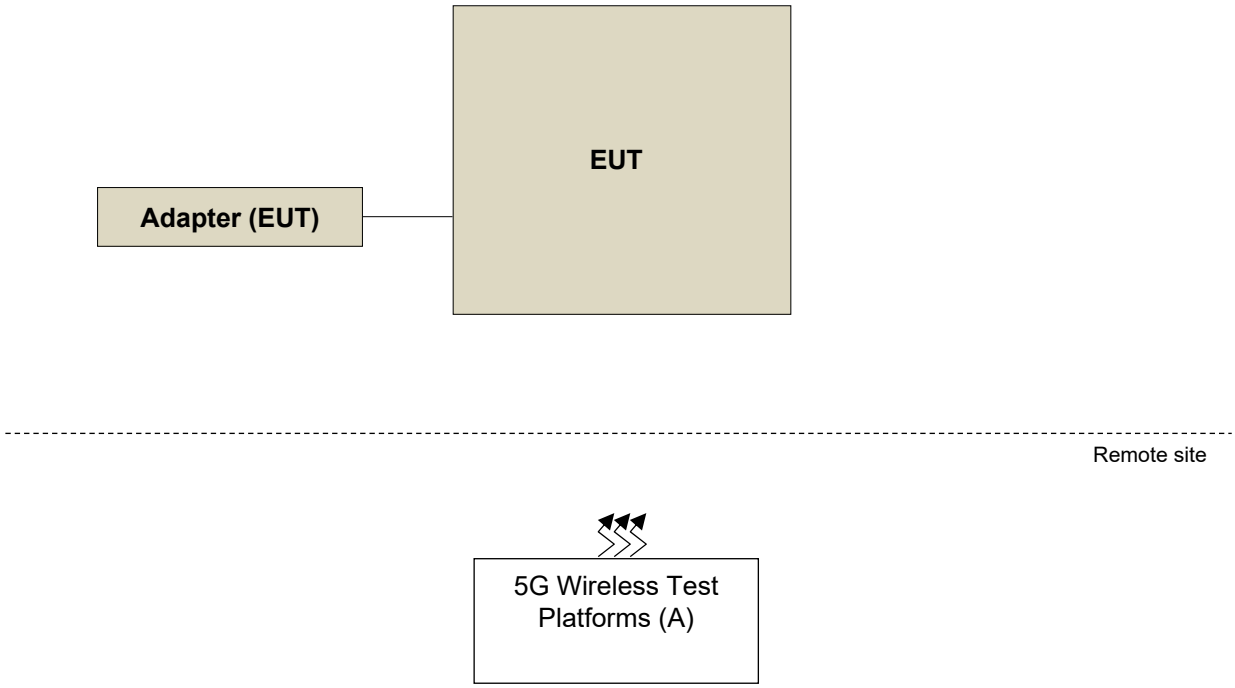
No.	Type	Connector	Gain (dBi)						
			B2	B5	B7	B12	B41	B66	B71
1	Monopole	TS-9 plugs	0.48	0.54	0.24	0.54	0.24	0.48	0.54
2	Monopole	TS-9 plugs	0.25	0.48	0.28	0.48	0.28	0.25	0.48

* 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 EUT supports the following ENDC configuration.

	FCC 5G FR1			ENDC
	Band	SCS	Bandwidth (MHz)	
5GNR	n2	15kHz	5/10/15/20	Band 5/12/66
	n41	30kHz	20/30/40/50/60/80/90/100	Band 2/66
	n77	30kHz	20/40/50/60/80/90/100	Band 2/7/12/66

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.	5G Wireless Test Platforms	Keysight	E7515B	MY58300759	NA	-

Note:

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

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	EIRP		Radiated Emission	
	Internal Antenna	External Antenna	Internal Antenna	External Antenna
n77	X-plane	Z-plane	X-plane	Z-plane
LTE Band 2	X-plane	Z-plane	X-plane	Z-plane
LTE Band 7	X-plane	Z-plane	X-plane	Z-plane
LTE Band 12	X-plane	Z-plane	X-plane	Z-plane
LTE Band 66	X-plane	Z-plane	X-plane	Z-plane

n77

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP/ERP	647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Modulation Characteristics	650000 to 662000	656000 (3840.00MHz)	100MHz	QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset
-	Frequency Stability	647334 to 664666	647334 (3710.01MHz), 664666 (3969.99MHz)	20MHz	QPSK	51 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 664000 (3960.00MHz)	40MHz	QPSK	106 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 663666 (3954.99MHz)	50MHz	QPSK	133 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 663332 (3949.98MHz)	60MHz	QPSK	162 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 662666 (3939.99MHz)	80MHz	QPSK	217 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 662332 (3934.98MHz)	90MHz	QPSK	245 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 662000 (3930.00MHz)	100MHz	QPSK	273 RB / 0 RB Offset
-	Emission Bandwidth	647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	51 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	133 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	162 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	217 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	245 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	647334 to 664666	647334 (3710.01MHz), 664666 (3969.99MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 50 RB Offset 51 RB / 0 RB Offset
		648000 to 664000	648000 (3720.00MHz), 664000 (3960.00MHz)	40MHz	QPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
		648334 to 663666	648334 (3725.01MHz), 663666 (3954.99MHz)	50MHz	QPSK	1 RB / 0 RB Offset 1 RB / 132 RB Offset 133 RB / 0 RB Offset
		648668 to 663332	648668 (3730.02MHz), 663332 (3949.98MHz)	60MHz	QPSK	1 RB / 0 RB Offset 1 RB / 161 RB Offset 162 RB / 0 RB Offset
		649334 to 662666	649334 (3740.01MHz), 662666 (3939.99MHz)	80MHz	QPSK	1 RB / 0 RB Offset 1 RB / 216 RB Offset 217 RB / 0 RB Offset
		649668 to 662332	649668 (3745.02MHz), 662332 (3934.98MHz)	90MHz	QPSK	1 RB / 0 RB Offset 1 RB / 244 RB Offset 245 RB / 0 RB Offset
		650000 to 662000	650000 (3750.00MHz), 662000 (3930.00MHz)	100MHz	QPSK	1 RB / 0 RB Offset 1 RB / 272 RB Offset 273 RB / 0 RB Offset
-	Peak to Average Ratio	647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	QPSK	1 RB / 1 RB Offset
		648000 to 664000	648000 (3720.00MHz), 656000 (3840.00MHz), 664000 (3960.00MHz)	40MHz	QPSK	1 RB / 1 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	QPSK	1 RB / 1 RB Offset
		648668 to 663332	648668 (3730.02MHz), 656000 (3840.00MHz), 663332 (3949.98MHz)	60MHz	QPSK	1 RB / 1 RB Offset
		649334 to 662666	649334 (3740.01MHz), 656000 (3840.00MHz), 662666 (3939.99MHz)	80MHz	QPSK	1 RB / 1 RB Offset
		649668 to 662332	649668 (3745.02MHz), 656000 (3840.00MHz), 662332 (3934.98MHz)	90MHz	QPSK	1 RB / 1 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	QPSK	1 RB / 1 RB Offset
-	Radiated Emission Below 1GHz	648334 to 663666	648334 (3725.01MHz) (For Internal antenna)	50MHz	QPSK	1 RB / 1 RB Offset
		647334 to 664666	647334 (3710.01MHz) (For External antenna)	20MHz	QPSK	1 RB / 1 RB Offset
-	Radiated Emission Above 1GHz	647334 to 664666	647334 (3710.01MHz), 656000 (3840.00MHz), 664666 (3969.99MHz)	20MHz	QPSK	1 RB / 1 RB Offset
		648334 to 663666	648334 (3725.01MHz), 656000 (3840.00MHz), 663666 (3954.99MHz)	50MHz	QPSK	1 RB / 1 RB Offset
		650000 to 662000	650000 (3750.00MHz), 656000 (3840.00MHz), 662000 (3930.00MHz)	100MHz	QPSK	1 RB / 1 RB Offset

Note:

1. Only output power, modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under worst mode according to the maximum output power.
2. For radiated emission above 1GHz, according to 3GPP 38.521-1 Section 6.5.3.1.4, choose the lowest, mid and highest channel bandwidth for final test.
3. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.

LTE Band 2

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		18615 to 19185	18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		18650 to 19150	18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		18675 to 19125	18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
-	Radiated Emission Below 1GHz	18607 to 19193	18900 (1880.0MHz) (For Internal antenna)	1.4MHz	QPSK	1 RB / 0 RB Offset
		18607 to 19193	19193 (1909.3MHz) (For External antenna)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.
2. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
3. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.

LTE Band 7

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	20775 to 21425	20775 (2502.5MHz), 21100 (2535.0MHz), 21425 (2567.5MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		20800 to 21400	20800 (2505.0MHz), 21100 (2535.0MHz), 21400 (2565.0MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		20825 to 21375	20825 (2507.5MHz), 21100 (2535.0MHz), 21375 (2562.5MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		20850 to 21350	20850 (2510.0MHz), 21100 (2535.0MHz), 21350 (2560.0MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
-	Radiated Emission Below 1GHz	20775 to 21425	20775 (2502.5MHz) (For Internal antenna)	5MHz	QPSK	1 RB / 50 RB Offset
		20850 to 21350	21350 (2560.0MHz) (For External antenna)	20MHz	QPSK	1 RB / 50 RB Offset
-	Radiated Emission Above 1GHz	20775 to 21425	20775 (2502.5MHz), 21100 (2535.0MHz), 21425 (2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20850 to 21350	20850 (2510.0MHz), 21100 (2535.0MHz), 21350 (2560.0MHz)	20MHz	QPSK	1 RB / 50 RB Offset

Note:

1. The conducted output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, only EIRP, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under QPSK mode only.
2. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
3. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.

LTE Band 12

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23017 to 23173	23017 (699.7MHz), 23095 (707.5MHz), 23173 (715.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		23025 to 23165	23025 (700.5MHz), 23095 (707.5MHz), 23165 (714.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0 MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
-	Radiated Emission Below 1GHz	23017 to 23173	23017 (699.7MHz) (For Internal antenna)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23017 to 23173	23095 (707.5MHz) (For Internal antenna)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23017 to 23173	23017 (699.7MHz), 23095 (707.5MHz), 23173 (715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

1. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.
2. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
3. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.

LTE Band 66

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		131987 to 132657	131987 (1711.5MHz), 132322 (1745.0MHz), 132657 (1778.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		132022 to 132622	132022 (1715.0MHz), 132322 (1745.0MHz), 132622 (1775.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		132047 to 132597	132047 (1717.5MHz), 132322 (1745.0MHz), 132597 (1772.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
-	Radiated Emission Below 1GHz	131979 to 132665	132665 (1779.3MHz) (Internal Antenna)	1.4MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	132647 (1777.5MHz) (For Internal antenna)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.
2. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
3. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.

Test Condition:

Test Item	Environmental Conditions	Input Power (system)	Tested By
EIRP/ERP	21deg. C, 69%RH 22deg. C, 66%RH	120Vac, 60Hz	Luis Lee Greg Lin Titan Hsu
Modulation characteristics	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Frequency Stability	22deg. C, 66%RH	3.85Vdc	Gavin Wu
Occupied Bandwidth	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Band Edge	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Peak To Average Ratio	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Conducted Emission	22deg. C, 66%RH	120Vac, 60Hz	Gavin Wu
Radiated Emission	25deg. C, 70%RH 23deg. C, 66%RH 21deg. C, 68%RH 21deg. C, 69%RH	120Vac, 60Hz	Hans Wu Luis Lee Titan Hsu

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 24

FCC 47 CFR Part 27

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 971168 D02 Misc Rev Approv License Devices v02r01

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

For n77:
Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

For LTE Band 2:
Mobile / Portable station are limited to 2 watts e.i.r.p.

For LTE Band 7:
Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

For LTE Band 12:
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.

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

4.1.2 Test Procedures

EIRP / ERP Measurement:

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.

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

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

d. Following C63.26 section 5.2.7 and 5.2.2.4
   - EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
   - ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

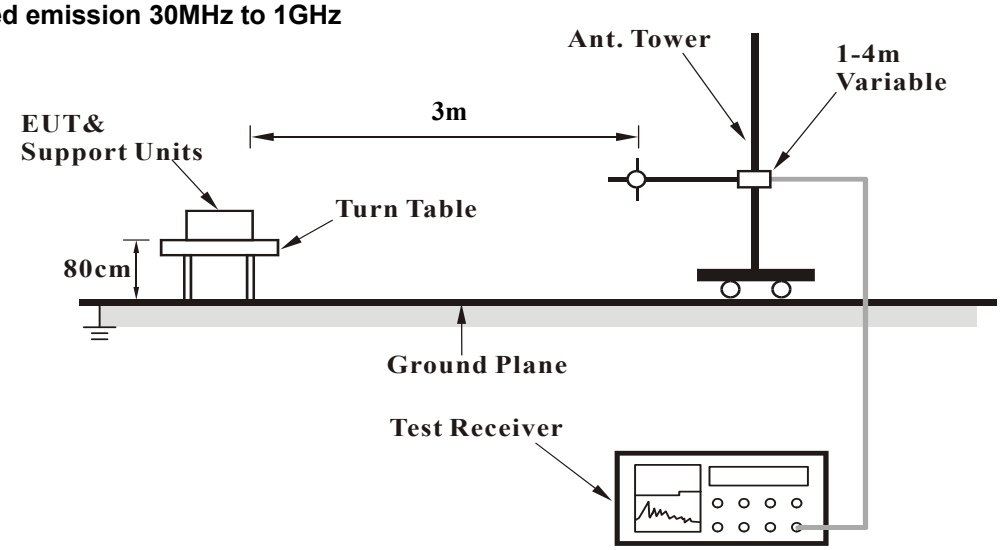
Conducted Power Measurement:

The EUT was set up for the maximum power with 5GNR, LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

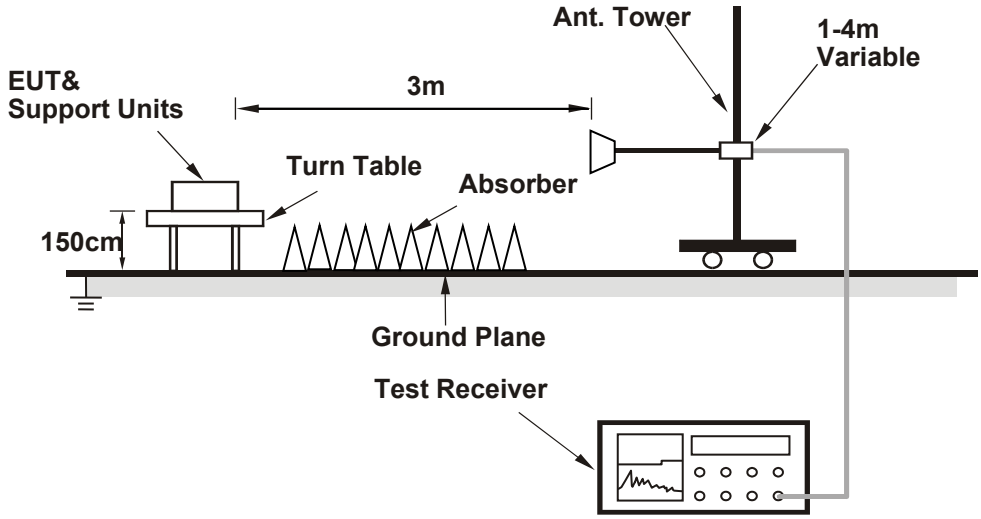
4.1.3 Test Setup

EIRP / ERP Measurement:

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



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

Conducted Power Measurement:

4.1.4 Test Results

Conducted Output Power (dBm)

NR Band 77:

NR Band 77						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		650000	656000	662000
		Frequency (MHz)		3750	3840	3930
100M	$\pi/2$ BPSK	1	1	23.04	23.76	23.57
100M	QPSK	1	1	23.12	23.77	23.62
		1	137	23.33	23.60	23.55
		1	271	23.24	23.52	23.47
		135	0	22.25	22.63	22.57
		135	69	23.72	23.88	23.81
		135	138	22.65	22.90	22.85
		270	0	22.54	22.79	22.76
100M	16QAM	1	1	22.98	22.78	22.68
100M	64QAM	1	1	21.46	21.14	21.14
100M	256QAM	1	1	19.30	18.95	19.09
BW	MCS Index	Channel		649668	656000	662332
		Frequency (MHz)		3745.02	3840	3934.98
90M	$\pi/2$ BPSK	1	1	22.97	23.74	23.54
90M	QPSK	1	1	23.06	23.67	23.54
		1	123	23.33	23.50	23.50
		1	243	23.22	23.44	23.38
		120	0	22.23	22.56	22.52
		120	63	23.68	23.97	23.95
		120	125	22.58	22.84	22.85
		243	0	22.47	22.74	22.57
90M	16QAM	1	1	22.92	22.68	22.57
90M	64QAM	1	1	21.15	21.16	20.82
90M	256QAM	1	1	19.02	18.89	18.84

NR Band 77						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		649334	656000	662666
		Frequency (MHz)		3740.01	3840	3939.99
80M	$\pi/2$ BPSK	1	1	22.97	23.65	23.45
80M	QPSK	1	1	23.02	23.65	23.45
		1	109	23.25	23.48	23.43
		1	215	23.22	23.42	23.37
		108	0	22.13	22.55	22.46
		108	55	23.58	23.92	23.90
		108	109	22.52	22.83	22.82
		216	0	21.97	22.68	22.49
80M	16QAM	1	1	22.02	22.59	22.46
80M	64QAM	1	1	21.18	21.17	20.96
80M	256QAM	1	1	19.24	19.12	18.88
NR Band 77						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648668	656000	663332
		Frequency (MHz)		3730.02	3840	3949.98
60M	$\pi/2$ BPSK	1	1	22.91	23.70	23.42
60M	QPSK	1	1	23.00	23.57	23.44
		1	81	23.25	23.40	23.34
		1	160	23.06	23.34	23.21
		81	0	22.15	22.49	22.43
		81	41	23.54	23.83	23.78
		81	81	22.51	22.77	22.76
		162	0	21.88	22.66	22.45
60M	16QAM	1	1	21.94	22.58	22.39
60M	64QAM	1	1	21.37	21.01	20.78
60M	256QAM	1	1	19.00	19.05	18.97
BW	MCS Index	Channel		648334	656000	663666
		Frequency (MHz)		3725.01	3840	3954.99
50M	$\pi/2$ BPSK	1	1	22.83	23.69	23.32
50M	QPSK	1	1	22.91	23.48	23.36
		1	67	23.18	23.40	23.29
		1	131	23.00	23.30	23.17
		64	0	22.09	22.49	22.40
		64	35	23.50	23.75	23.71
		64	69	22.43	22.72	22.66
		128	0	21.81	22.61	22.32
50M	16QAM	1	1	21.98	22.52	22.40
50M	64QAM	1	1	21.33	21.03	21.18
50M	256QAM	1	1	19.02	19.21	18.92

NR Band 77						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648000	656000	664000
		Frequency (MHz)		3720	3840	3960
40M	$\pi/2$ BPSK	1	1	22.91	23.63	23.40
40M	QPSK	1	1	22.94	23.48	23.43
		1	53	23.20	23.33	23.25
		1	104	22.96	23.28	23.11
		50	0	22.11	22.47	22.43
		50	28	23.44	23.83	23.78
		50	56	22.42	22.72	22.69
		100	0	21.91	22.67	22.37
40M	16QAM	1	1	21.90	22.47	22.40
40M	64QAM	1	1	21.44	21.06	20.83
40M	256QAM	1	1	19.45	18.92	18.75

NR Band 77						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647500	656000	664500
		Frequency (MHz)		3712.5	3840	3967.5
25M	$\pi/2$ BPSK	1	1	22.86	23.57	23.31
25M	QPSK	1	1	22.88	23.36	23.34
		1	33	23.08	23.22	23.22
		1	63	22.93	23.12	23.02
		32	0	21.94	22.39	22.32
		32	17	23.40	23.74	23.78
		32	33	22.42	22.57	22.55
		64	0	21.80	22.63	22.35
25M	16QAM	1	1	21.84	22.37	22.34
25M	64QAM	1	1	21.05	20.89	20.78
25M	256QAM	1	1	19.06	19.01	18.94

NR Band 77						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647334	656000	664666
		Frequency (MHz)		3710.01	3840	3969.99
20M	$\pi/2$ BPSK	1	1	22.84	23.56	23.39
20M	QPSK	1	1	22.88	23.32	23.31
		1	26	23.09	23.15	23.21
		1	49	22.86	23.11	23.08
		25	0	21.96	22.42	22.41
		25	13	23.42	23.73	23.74
		25	26	22.38	22.57	22.58
		50	0	21.80	22.55	22.33
20M	16QAM	1	1	21.92	22.42	22.32
20M	64QAM	1	1	21.23	21.05	21.08
20M	256QAM	1	1	19.27	19.18	18.79

EIRP (dBm)

Internal Antenna

Modulation Type: $\pi/2$ BPSK

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	22.02	30.00	-7.98	1.40 H	72	81.23	-59.21
2	3840.00	21.68	30.00	-8.32	1.40 H	72	80.26	-58.58
3	3969.99	21.46	30.00	-8.54	1.30 H	75	79.79	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	19.81	30.00	-10.19	2.68 V	110	79.02	-59.21
2	3840.00	19.80	30.00	-10.20	2.73 V	114	78.38	-58.58
3	3969.99	20.15	30.00	-9.85	2.71 V	111	78.48	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	21.57	30.00	-8.43	1.38 H	75	80.72	-59.15
2	3840.00	21.68	30.00	-8.32	1.34 H	73	80.26	-58.58
3	3960.00	21.35	30.00	-8.65	1.35 H	74	79.69	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	20.46	30.00	-9.54	2.75 V	109	79.61	-59.15
2	3840.00	19.80	30.00	-10.20	2.72 V	111	78.38	-58.58
3	3960.00	20.36	30.00	-9.64	2.69 V	114	78.70	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	21.91	30.00	-8.09	1.31 H	75	81.02	-59.11
2	3840.00	21.46	30.00	-8.54	1.33 H	72	80.04	-58.58
3	3954.99	21.80	30.00	-8.20	1.38 H	71	80.16	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	20.04	30.00	-9.96	2.75 V	112	79.15	-59.11
2	3840.00	20.15	30.00	-9.85	2.70 V	109	78.73	-58.58
3	3954.99	20.25	30.00	-9.75	2.69 V	109	78.61	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	21.58	30.00	-8.42	1.37 H	73	80.66	-59.08
2	3840.00	21.67	30.00	-8.33	1.30 H	74	80.25	-58.58
3	3949.98	21.78	30.00	-8.22	1.34 H	73	80.15	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	20.03	30.00	-9.97	2.76 V	111	79.11	-59.08
2	3840.00	19.79	30.00	-10.21	2.78 V	114	78.37	-58.58
3	3949.98	20.24	30.00	-9.76	2.75 V	110	78.61	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	21.46	30.00	-8.54	1.38 H	72	80.48	-59.02
2	3840.00	21.80	30.00	-8.20	1.35 H	71	80.38	-58.58
3	3939.99	21.43	30.00	-8.57	1.35 H	78	79.82	-58.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	20.20	30.00	-9.80	2.70 V	107	79.22	-59.02
2	3840.00	19.91	30.00	-10.09	2.72 V	113	78.49	-58.58
3	3939.99	19.80	30.00	-10.20	2.71 V	113	78.19	-58.39

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	21.80	30.00	-8.20	1.35 H	73	80.79	-58.99
2	3840.00	21.69	30.00	-8.31	1.38 H	76	80.27	-58.58
3	3934.98	21.36	30.00	-8.64	1.30 H	71	79.76	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	19.81	30.00	-10.19	2.77 V	109	78.80	-58.99
2	3840.00	20.34	30.00	-9.66	2.74 V	112	78.92	-58.58
3	3934.98	19.90	30.00	-10.10	2.73 V	113	78.30	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	21.82	30.00	-8.18	1.38 H	72	80.78	-58.96
2	3840.00	21.58	30.00	-8.42	1.36 H	77	80.16	-58.58
3	3930.00	21.47	30.00	-8.53	1.33 H	75	79.88	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	19.80	30.00	-10.20	2.75 V	113	78.76	-58.96
2	3840.00	20.03	30.00	-9.97	2.75 V	110	78.61	-58.58
3	3930.00	19.91	30.00	-10.09	2.77 V	115	78.32	-58.41

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

Modulation Type: QPSK

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	22.19	30.00	-7.81	1.40 H	72	81.40	-59.21
2	3840.00	21.81	30.00	-8.19	1.40 H	72	80.39	-58.58
3	3969.99	21.56	30.00	-8.44	1.30 H	75	79.89	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	20.10	30.00	-9.90	2.68 V	110	79.31	-59.21
2	3840.00	20.05	30.00	-9.95	2.73 V	114	78.63	-58.58
3	3969.99	20.46	30.00	-9.54	2.71 V	111	78.79	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	21.71	30.00	-8.29	1.38 H	75	80.86	-59.15
2	3840.00	21.81	30.00	-8.19	1.34 H	73	80.39	-58.58
3	3960.00	21.52	30.00	-8.48	1.35 H	74	79.86	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	20.56	30.00	-9.44	2.75 V	109	79.71	-59.15
2	3840.00	19.99	30.00	-10.01	2.72 V	111	78.57	-58.58
3	3960.00	20.56	30.00	-9.44	2.69 V	114	78.90	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	22.13	30.00	-7.87	1.31 H	75	81.24	-59.11
2	3840.00	21.58	30.00	-8.42	1.33 H	72	80.16	-58.58
3	3954.99	22.01	30.00	-7.99	1.38 H	71	80.37	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	20.39	30.00	-9.61	2.75 V	112	79.50	-59.11
2	3840.00	20.48	30.00	-9.52	2.70 V	109	79.06	-58.58
3	3954.99	20.53	30.00	-9.47	2.69 V	109	78.89	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	21.79	30.00	-8.21	1.37 H	73	80.87	-59.08
2	3840.00	21.74	30.00	-8.26	1.30 H	74	80.32	-58.58
3	3949.98	21.81	30.00	-8.19	1.34 H	73	80.18	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	20.27	30.00	-9.73	2.76 V	111	79.35	-59.08
2	3840.00	19.92	30.00	-10.08	2.78 V	114	78.50	-58.58
3	3949.98	20.44	30.00	-9.56	2.75 V	110	78.81	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	21.60	30.00	-8.40	1.38 H	72	80.70	-59.10
2	3840.00	22.00	30.00	-8.00	1.35 H	71	80.60	-58.60
3	3939.99	21.60	30.00	-8.40	1.35 H	78	80.00	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	20.40	30.00	-9.60	2.70 V	107	79.50	-59.10
2	3840.00	20.10	30.00	-9.90	2.72 V	113	78.70	-58.60
3	3939.99	20.00	30.00	-10.00	2.71 V	113	78.40	-58.40

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	22.02	30.00	-7.98	1.35 H	73	81.01	-58.99
2	3840.00	21.88	30.00	-8.12	1.38 H	76	80.46	-58.58
3	3934.98	21.61	30.00	-8.39	1.30 H	71	80.01	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	20.09	30.00	-9.91	2.77 V	109	79.08	-58.99
2	3840.00	20.43	30.00	-9.57	2.74 V	112	79.01	-58.58
3	3934.98	20.02	30.00	-9.98	2.73 V	113	78.42	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	22.15	30.00	-7.85	1.38 H	72	81.11	-58.96
2	3840.00	21.76	30.00	-8.24	1.36 H	77	80.34	-58.58
3	3930.00	21.68	30.00	-8.32	1.33 H	75	80.09	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	20.02	30.00	-9.98	2.75 V	113	78.98	-58.96
2	3840.00	20.33	30.00	-9.67	2.75 V	110	78.91	-58.58
3	3930.00	20.06	30.00	-9.94	2.77 V	115	78.47	-58.41

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

Modulation Type: 16QAM

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	20.83	30.00	-9.17	1.32 H	77	80.04	-59.21
2	3840.00	20.68	30.00	-9.32	1.36 H	76	79.26	-58.58
3	3969.99	20.93	30.00	-9.07	1.32 H	78	79.26	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	19.01	30.00	-10.99	2.74 V	114	78.22	-59.21
2	3840.00	18.75	30.00	-11.25	2.69 V	107	77.33	-58.58
3	3969.99	18.97	30.00	-11.03	2.77 V	112	77.30	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	20.93	30.00	-9.07	1.36 H	75	80.08	-59.15
2	3840.00	21.41	30.00	-8.59	1.32 H	78	79.99	-58.58
3	3960.00	20.99	30.00	-9.01	1.32 H	78	79.33	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	19.48	30.00	-10.52	2.78 V	113	78.63	-59.15
2	3840.00	19.29	30.00	-10.71	2.75 V	111	77.87	-58.58
3	3960.00	19.72	30.00	-10.28	2.69 V	114	78.06	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	21.26	30.00	-8.74	1.35 H	76	80.37	-59.11
2	3840.00	20.63	30.00	-9.37	1.40 H	77	79.21	-58.58
3	3954.99	20.79	30.00	-9.21	1.31 H	71	79.15	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	19.46	30.00	-10.54	2.73 V	113	78.57	-59.11
2	3840.00	18.72	30.00	-11.28	2.76 V	114	77.30	-58.58
3	3954.99	19.47	30.00	-10.53	2.69 V	114	77.83	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	20.68	30.00	-9.32	1.40 H	75	79.76	-59.08
2	3840.00	21.04	30.00	-8.96	1.31 H	72	79.62	-58.58
3	3949.98	20.70	30.00	-9.30	1.37 H	71	79.07	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	18.82	30.00	-11.18	2.71 V	107	77.90	-59.08
2	3840.00	19.48	30.00	-10.52	2.75 V	108	78.06	-58.58
3	3949.98	18.94	30.00	-11.06	2.77 V	110	77.31	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	21.30	30.00	-8.70	1.37 H	71	80.40	-59.10
2	3840.00	20.50	30.00	-9.50	1.38 H	73	79.10	-58.60
3	3939.99	20.90	30.00	-9.10	1.35 H	73	79.30	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	19.50	30.00	-10.50	2.72 V	112	78.60	-59.10
2	3840.00	19.00	30.00	-11.00	2.72 V	112	77.60	-58.60
3	3939.99	19.20	30.00	-10.80	2.74 V	108	77.60	-58.40

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	21.15	30.00	-8.85	1.40 H	76	80.14	-58.99
2	3840.00	21.18	30.00	-8.82	1.36 H	76	79.76	-58.58
3	3934.98	20.91	30.00	-9.09	1.36 H	71	79.31	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	18.96	30.00	-11.04	2.70 V	114	77.95	-58.99
2	3840.00	18.87	30.00	-11.13	2.73 V	110	77.45	-58.58
3	3934.98	19.25	30.00	-10.75	2.72 V	111	77.65	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	21.09	30.00	-8.91	1.38 H	74	80.05	-58.96
2	3840.00	21.12	30.00	-8.88	1.33 H	74	79.70	-58.58
3	3930.00	20.85	30.00	-9.15	1.33 H	72	79.26	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	18.93	30.00	-11.07	2.77 V	110	77.89	-58.96
2	3840.00	18.79	30.00	-11.21	2.71 V	105	77.37	-58.58
3	3930.00	19.15	30.00	-10.85	2.77 V	113	77.56	-58.41

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

Modulation Type: 64QAM

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	20.89	30.00	-9.11	1.35 H	77	80.10	-59.21
2	3840.00	20.40	30.00	-9.60	1.34 H	71	78.98	-58.58
3	3969.99	20.19	30.00	-9.81	1.35 H	78	78.52	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	18.85	30.00	-11.15	2.69 V	111	78.06	-59.21
2	3840.00	19.06	30.00	-10.94	2.72 V	109	77.64	-58.58
3	3969.99	19.14	30.00	-10.86	2.69 V	112	77.47	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	21.01	30.00	-8.99	1.37 H	71	80.16	-59.15
2	3840.00	20.64	30.00	-9.36	1.35 H	73	79.22	-58.58
3	3960.00	20.77	30.00	-9.23	1.37 H	71	79.11	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	19.07	30.00	-10.93	2.75 V	111	78.22	-59.15
2	3840.00	18.43	30.00	-11.57	2.69 V	112	77.01	-58.58
3	3960.00	19.12	30.00	-10.88	2.68 V	110	77.46	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	20.50	30.00	-9.50	1.31 H	74	79.61	-59.11
2	3840.00	20.14	30.00	-9.86	1.30 H	75	78.72	-58.58
3	3954.99	20.50	30.00	-9.50	1.36 H	73	78.86	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	18.16	30.00	-11.84	2.71 V	110	77.27	-59.11
2	3840.00	18.96	30.00	-11.04	2.78 V	109	77.54	-58.58
3	3954.99	18.76	30.00	-11.24	2.78 V	111	77.12	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	20.67	30.00	-9.33	1.38 H	75	79.75	-59.08
2	3840.00	20.18	30.00	-9.82	1.34 H	72	78.76	-58.58
3	3949.98	20.30	30.00	-9.70	1.36 H	74	78.67	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	18.83	30.00	-11.17	2.78 V	111	77.91	-59.08
2	3840.00	18.70	30.00	-11.30	2.78 V	113	77.28	-58.58
3	3949.98	18.47	30.00	-11.53	2.76 V	108	76.84	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	20.30	30.00	-9.70	1.36 H	78	79.40	-59.10
2	3840.00	20.00	30.00	-10.00	1.35 H	73	78.60	-58.60
3	3939.99	20.20	30.00	-9.80	1.37 H	71	78.60	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	18.60	30.00	-11.40	2.70 V	112	77.70	-59.10
2	3840.00	18.50	30.00	-11.50	2.78 V	113	77.10	-58.60
3	3939.99	18.70	30.00	-11.30	2.68 V	109	77.10	-58.40

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	20.51	30.00	-9.49	1.35 H	77	79.50	-58.99
2	3840.00	20.56	30.00	-9.44	1.36 H	71	79.14	-58.58
3	3934.98	20.40	30.00	-9.60	1.33 H	72	78.80	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	18.65	30.00	-11.35	2.76 V	114	77.64	-58.99
2	3840.00	19.14	30.00	-10.86	2.76 V	113	77.72	-58.58
3	3934.98	18.91	30.00	-11.09	2.77 V	110	77.31	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	20.48	30.00	-9.52	1.33 H	75	79.44	-58.96
2	3840.00	20.53	30.00	-9.47	1.32 H	74	79.11	-58.58
3	3930.00	20.32	30.00	-9.68	1.39 H	71	78.73	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	18.62	30.00	-11.38	2.72 V	115	77.58	-58.96
2	3840.00	19.11	30.00	-10.89	2.77 V	108	77.69	-58.58
3	3930.00	18.86	30.00	-11.14	2.74 V	119	77.27	-58.41

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

Modulation Type: 256QAM

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	19.29	30.00	-10.71	1.31 H	78	78.50	-59.21
2	3840.00	18.80	30.00	-11.20	1.40 H	73	77.38	-58.58
3	3969.99	18.59	30.00	-11.41	1.31 H	72	76.92	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	17.45	30.00	-12.55	2.72 V	114	76.66	-59.21
2	3840.00	17.66	30.00	-12.34	2.73 V	107	76.24	-58.58
3	3969.99	17.54	30.00	-12.46	2.76 V	107	75.87	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	19.41	30.00	-10.59	1.40 H	71	78.56	-59.15
2	3840.00	19.14	30.00	-10.86	1.34 H	77	77.72	-58.58
3	3960.00	19.37	30.00	-10.63	1.40 H	77	77.71	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	17.57	30.00	-12.43	2.70 V	113	76.72	-59.15
2	3840.00	17.03	30.00	-12.97	2.77 V	113	75.61	-58.58
3	3960.00	17.62	30.00	-12.38	2.76 V	114	75.96	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	19.10	30.00	-10.90	1.35 H	78	78.21	-59.11
2	3840.00	18.64	30.00	-11.36	1.37 H	73	77.22	-58.58
3	3954.99	18.90	30.00	-11.10	1.36 H	76	77.26	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	16.56	30.00	-13.44	2.78 V	107	75.67	-59.11
2	3840.00	17.56	30.00	-12.44	2.78 V	111	76.14	-58.58
3	3954.99	17.36	30.00	-12.64	2.76 V	110	75.72	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	19.17	30.00	-10.83	1.35 H	76	78.25	-59.08
2	3840.00	18.78	30.00	-11.22	1.31 H	71	77.36	-58.58
3	3949.98	18.80	30.00	-11.20	1.35 H	76	77.17	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	17.23	30.00	-12.77	2.69 V	112	76.31	-59.08
2	3840.00	17.10	30.00	-12.90	2.71 V	109	75.68	-58.58
3	3949.98	17.07	30.00	-12.93	2.78 V	108	75.44	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	18.80	30.00	-11.20	1.33 H	78	77.90	-59.10
2	3840.00	18.40	30.00	-11.60	1.35 H	78	77.00	-58.60
3	3939.99	18.80	30.00	-11.20	1.35 H	72	77.20	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	17.10	30.00	-12.90	2.78 V	114	76.20	-59.10
2	3840.00	16.90	30.00	-13.10	2.75 V	107	75.50	-58.60
3	3939.99	17.20	30.00	-12.80	2.74 V	114	75.60	-58.40

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	18.91	30.00	-11.09	1.40 H	73	77.90	-58.99
2	3840.00	19.16	30.00	-10.84	1.39 H	72	77.74	-58.58
3	3934.98	19.00	30.00	-11.00	1.33 H	73	77.40	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	17.25	30.00	-12.75	2.78 V	109	76.24	-58.99
2	3840.00	17.74	30.00	-12.26	2.68 V	107	76.32	-58.58
3	3934.98	17.31	30.00	-12.69	2.74 V	107	75.71	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	18.79	30.00	-11.21	1.38 H	72	77.75	-58.96
2	3840.00	19.09	30.00	-10.91	1.33 H	71	77.67	-58.58
3	3930.00	18.89	30.00	-11.11	1.28 H	79	77.30	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	17.23	30.00	-12.77	2.81 V	118	76.19	-58.96
2	3840.00	17.69	30.00	-12.31	2.66 V	112	76.27	-58.58
3	3930.00	17.57	30.00	-12.43	2.71 V	106	75.98	-58.41

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

LTE Band 2

Modulation Type: QPSK

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
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	1850.70	16.53	33.00	-16.47	2.16 H	199	82.36	-65.83
2	1880.00	16.66	33.00	-16.34	2.12 H	201	82.27	-65.61
3	1909.30	16.62	33.00	-16.38	2.16 H	205	82.00	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	19.72	33.00	-13.28	2.48 V	323	85.55	-65.83
2	1880.00	19.45	33.00	-13.55	2.43 V	322	85.06	-65.61
3	1909.30	19.54	33.00	-13.46	2.41 V	319	84.92	-65.38

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
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	1851.50	16.39	33.00	-16.61	2.14 H	198	82.22	-65.83
2	1880.00	16.10	33.00	-16.90	2.19 H	200	81.71	-65.61
3	1908.50	16.66	33.00	-16.34	2.16 H	203	82.04	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	19.85	33.00	-13.15	2.48 V	319	85.68	-65.83
2	1880.00	19.88	33.00	-13.12	2.45 V	324	85.49	-65.61
3	1908.50	19.67	33.00	-13.33	2.50 V	320	85.05	-65.38

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

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
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	1852.50	16.73	33.00	-16.27	2.16 H	205	82.55	-65.82
2	1880.00	16.72	33.00	-16.28	2.20 H	205	82.33	-65.61
3	1907.50	16.46	33.00	-16.54	2.17 H	198	81.85	-65.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	19.94	33.00	-13.06	2.40 V	325	85.76	-65.82
2	1880.00	19.56	33.00	-13.44	2.44 V	322	85.17	-65.61
3	1907.50	19.56	33.00	-13.44	2.46 V	323	84.95	-65.39

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
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	1855.00	16.75	33.00	-16.25	2.13 H	204	82.55	-65.80
2	1880.00	16.24	33.00	-16.76	2.14 H	202	81.85	-65.61
3	1905.00	16.06	33.00	-16.94	2.20 H	198	81.47	-65.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	19.94	33.00	-13.06	2.47 V	320	85.74	-65.80
2	1880.00	19.81	33.00	-13.19	2.50 V	319	85.42	-65.61
3	1905.00	19.62	33.00	-13.38	2.47 V	322	85.03	-65.41

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

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
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	1857.50	16.37	33.00	-16.63	2.18 H	199	82.16	-65.79
2	1880.00	16.62	33.00	-16.38	2.14 H	204	82.23	-65.61
3	1902.50	16.24	33.00	-16.76	2.18 H	200	81.67	-65.43
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	19.90	33.00	-13.10	2.42 V	321	85.69	-65.79
2	1880.00	19.89	33.00	-13.11	2.45 V	326	85.50	-65.61
3	1902.50	19.88	33.00	-13.12	2.48 V	326	85.31	-65.43

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700, 18900, 19100							
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	1860.00	16.69	33.00	-16.31	2.10 H	200	82.45	-65.76
2	1880.00	16.32	33.00	-16.68	2.14 H	202	81.93	-65.61
3	1900.00	16.74	33.00	-16.26	2.10 H	203	82.19	-65.45
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	19.61	33.00	-13.39	2.48 V	319	85.37	-65.76
2	1880.00	19.95	33.00	-13.05	2.45 V	325	85.56	-65.61
3	1900.00	19.34	33.00	-13.66	2.45 V	321	84.79	-65.45

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

Modulation Type: 16QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
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	1850.70	15.55	33.00	-17.45	2.14 H	204	81.38	-65.83
2	1880.00	15.67	33.00	-17.33	2.10 H	198	81.28	-65.61
3	1909.30	15.63	33.00	-17.37	2.19 H	198	81.01	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	18.70	33.00	-14.30	2.41 V	322	84.53	-65.83
2	1880.00	18.47	33.00	-14.53	2.41 V	321	84.08	-65.61
3	1909.30	18.55	33.00	-14.45	2.42 V	323	83.93	-65.38

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
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	1851.50	15.41	33.00	-17.59	2.17 H	203	81.24	-65.83
2	1880.00	15.11	33.00	-17.89	2.12 H	198	80.72	-65.61
3	1908.50	15.66	33.00	-17.34	2.15 H	204	81.04	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	18.85	33.00	-14.15	2.46 V	323	84.68	-65.83
2	1880.00	18.86	33.00	-14.14	2.46 V	319	84.47	-65.61
3	1908.50	18.68	33.00	-14.32	2.46 V	320	84.06	-65.38

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

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
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	1852.50	15.73	33.00	-17.27	2.20 H	199	81.55	-65.82
2	1880.00	15.72	33.00	-17.28	2.16 H	198	81.33	-65.61
3	1907.50	15.46	33.00	-17.54	2.18 H	200	80.85	-65.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	18.92	33.00	-14.08	2.49 V	322	84.74	-65.82
2	1880.00	18.57	33.00	-14.43	2.44 V	323	84.18	-65.61
3	1907.50	18.56	33.00	-14.44	2.41 V	323	83.95	-65.39

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
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	1855.00	15.74	33.00	-17.26	2.16 H	204	81.54	-65.80
2	1880.00	15.23	33.00	-17.77	2.10 H	201	80.84	-65.61
3	1905.00	15.06	33.00	-17.94	2.10 H	199	80.47	-65.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	18.92	33.00	-14.08	2.42 V	320	84.72	-65.80
2	1880.00	18.83	33.00	-14.17	2.47 V	319	84.44	-65.61
3	1905.00	18.63	33.00	-14.37	2.44 V	322	84.04	-65.41

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

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
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	1857.50	15.36	33.00	-17.64	2.18 H	200	81.15	-65.79
2	1880.00	15.64	33.00	-17.36	2.13 H	202	81.25	-65.61
3	1902.50	15.23	33.00	-17.77	2.20 H	203	80.66	-65.43
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	19.02	33.00	-13.98	2.46 V	320	84.81	-65.79
2	1880.00	18.90	33.00	-14.10	2.47 V	322	84.51	-65.61
3	1902.50	19.07	33.00	-13.93	2.43 V	319	84.50	-65.43

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700, 18900, 19100							
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	1860.00	15.68	33.00	-17.32	2.19 H	204	81.44	-65.76
2	1880.00	15.34	33.00	-17.66	2.19 H	198	80.95	-65.61
3	1900.00	15.75	33.00	-17.25	2.10 H	199	81.20	-65.45
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	18.61	33.00	-14.39	2.48 V	323	84.37	-65.76
2	1880.00	18.92	33.00	-14.08	2.43 V	325	84.53	-65.61
3	1900.00	18.35	33.00	-14.65	2.41 V	323	83.80	-65.45

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

Modulation Type: 64QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
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	1850.70	14.57	33.00	-18.43	2.11 H	203	80.40	-65.83
2	1880.00	14.69	33.00	-18.31	2.16 H	199	80.30	-65.61
3	1909.30	14.64	33.00	-18.36	2.14 H	200	80.02	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	17.71	33.00	-15.29	2.41 V	326	83.54	-65.83
2	1880.00	17.45	33.00	-15.55	2.46 V	322	83.06	-65.61
3	1909.30	17.56	33.00	-15.44	2.49 V	322	82.94	-65.38

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
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	1851.50	14.43	33.00	-18.57	2.19 H	203	80.26	-65.83
2	1880.00	14.09	33.00	-18.91	2.15 H	205	79.70	-65.61
3	1908.50	14.67	33.00	-18.33	2.13 H	200	80.05	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	17.86	33.00	-15.14	2.50 V	324	83.69	-65.83
2	1880.00	17.86	33.00	-15.14	2.49 V	320	83.47	-65.61
3	1908.50	17.69	33.00	-15.31	2.46 V	319	83.07	-65.38

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

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
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	1852.50	14.71	33.00	-18.29	2.14 H	199	80.53	-65.82
2	1880.00	14.71	33.00	-18.29	2.10 H	199	80.32	-65.61
3	1907.50	14.47	33.00	-18.53	2.18 H	199	79.86	-65.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	17.90	33.00	-15.10	2.48 V	323	83.72	-65.82
2	1880.00	17.56	33.00	-15.44	2.41 V	322	83.17	-65.61
3	1907.50	17.56	33.00	-15.44	2.42 V	323	82.95	-65.39

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
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	1855.00	14.72	33.00	-18.28	2.14 H	204	80.52	-65.80
2	1880.00	14.25	33.00	-18.75	2.20 H	204	79.86	-65.61
3	1905.00	14.04	33.00	-18.96	2.18 H	201	79.45	-65.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	17.94	33.00	-15.06	2.48 V	322	83.74	-65.80
2	1880.00	17.82	33.00	-15.18	2.47 V	326	83.43	-65.61
3	1905.00	17.62	33.00	-15.38	2.40 V	326	83.03	-65.41

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

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
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	1857.50	14.37	33.00	-18.63	2.13 H	198	80.16	-65.79
2	1880.00	14.65	33.00	-18.35	2.20 H	205	80.26	-65.61
3	1902.50	14.25	33.00	-18.75	2.19 H	199	79.68	-65.43
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	18.02	33.00	-14.98	2.49 V	326	83.81	-65.79
2	1880.00	17.88	33.00	-15.12	2.41 V	321	83.49	-65.61
3	1902.50	18.08	33.00	-14.92	2.50 V	323	83.51	-65.43

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700, 18900, 19100							
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	1860.00	14.66	33.00	-18.34	2.16 H	205	80.42	-65.76
2	1880.00	14.36	33.00	-18.64	2.20 H	198	79.97	-65.61
3	1900.00	14.76	33.00	-18.24	2.12 H	200	80.21	-65.45
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	17.61	33.00	-15.39	2.40 V	321	83.37	-65.76
2	1880.00	17.93	33.00	-15.07	2.41 V	321	83.54	-65.61
3	1900.00	17.34	33.00	-15.66	2.45 V	319	82.79	-65.45

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

Modulation Type: 256QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
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	1850.70	13.58	33.00	-19.42	2.10 H	205	79.41	-65.83
2	1880.00	13.71	33.00	-19.29	2.15 H	204	79.32	-65.61
3	1909.30	13.65	33.00	-19.35	2.15 H	198	79.03	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	16.73	33.00	-16.27	2.45 V	321	82.56	-65.83
2	1880.00	16.44	33.00	-16.56	2.44 V	325	82.05	-65.61
3	1909.30	16.56	33.00	-16.44	2.47 V	324	81.94	-65.38

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
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	1851.50	13.44	33.00	-19.56	2.12 H	202	79.27	-65.83
2	1880.00	13.10	33.00	-19.90	2.17 H	199	78.71	-65.61
3	1908.50	13.65	33.00	-19.35	2.16 H	201	79.03	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	16.84	33.00	-16.16	2.46 V	320	82.67	-65.83
2	1880.00	16.86	33.00	-16.14	2.42 V	321	82.47	-65.61
3	1908.50	16.70	33.00	-16.30	2.50 V	322	82.08	-65.38

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

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
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	1852.50	13.70	33.00	-19.30	2.11 H	205	79.52	-65.82
2	1880.00	13.70	33.00	-19.30	2.14 H	205	79.31	-65.61
3	1907.50	13.49	33.00	-19.51	2.10 H	198	78.88	-65.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	16.89	33.00	-16.11	2.46 V	321	82.71	-65.82
2	1880.00	16.58	33.00	-16.42	2.46 V	325	82.19	-65.61
3	1907.50	16.57	33.00	-16.43	2.47 V	320	81.96	-65.39

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
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	1855.00	13.74	33.00	-19.26	2.16 H	200	79.54	-65.80
2	1880.00	13.27	33.00	-19.73	2.13 H	203	78.88	-65.61
3	1905.00	13.04	33.00	-19.96	2.15 H	203	78.45	-65.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	16.93	33.00	-16.07	2.40 V	323	82.73	-65.80
2	1880.00	16.83	33.00	-16.17	2.49 V	319	82.44	-65.61
3	1905.00	16.63	33.00	-16.37	2.44 V	324	82.04	-65.41

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

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
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	1857.50	13.38	33.00	-19.62	2.12 H	198	79.17	-65.79
2	1880.00	13.64	33.00	-19.36	2.13 H	199	79.25	-65.61
3	1902.50	13.25	33.00	-19.75	2.17 H	198	78.68	-65.43
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	17.01	33.00	-15.99	2.45 V	326	82.80	-65.79
2	1880.00	16.90	33.00	-16.10	2.49 V	321	82.51	-65.61
3	1902.50	17.06	33.00	-15.94	2.49 V	319	82.49	-65.43

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700, 18900, 19100							
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	1860.00	13.64	33.00	-19.36	2.15 H	199	79.40	-65.76
2	1880.00	13.36	33.00	-19.64	2.17 H	201	78.97	-65.61
3	1900.00	13.76	33.00	-19.24	2.10 H	199	79.21	-65.45
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	16.60	33.00	-16.40	2.43 V	324	82.36	-65.76
2	1880.00	16.95	33.00	-16.05	2.50 V	325	82.56	-65.61
3	1900.00	16.32	33.00	-16.68	2.43 V	320	81.77	-65.45

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

LTE Band 7

Modulation Type: QPSK

LTE Band 7, Channel Bandwidth 5MHz

MODE	TX channel 20775, 21100, 21425							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	12.70	33.00	-20.30	1.24 H	224	76.03	-63.33
2	2535.00	12.95	33.00	-20.05	1.17 H	227	76.20	-63.25
3	2567.50	12.71	33.00	-20.29	1.23 H	224	75.89	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	20.27	33.00	-12.73	2.26 V	241	83.60	-63.33
2	2535.00	19.98	33.00	-13.02	2.20 V	242	83.23	-63.25
3	2567.50	19.53	33.00	-13.47	2.25 V	237	82.71	-63.18

LTE Band 7, Channel Bandwidth 10MHz

MODE	TX channel 20800, 21100, 21400							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	12.91	33.00	-20.09	1.15 H	224	76.23	-63.32
2	2535.00	13.35	33.00	-19.65	1.22 H	224	76.60	-63.25
3	2565.00	12.79	33.00	-20.21	1.17 H	225	75.97	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	20.21	33.00	-12.79	2.18 V	240	83.53	-63.32
2	2535.00	19.94	33.00	-13.06	2.21 V	241	83.19	-63.25
3	2565.00	19.92	33.00	-13.08	2.18 V	237	83.10	-63.18

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 7, Channel Bandwidth 15MHz

MODE	TX channel 20825, 21100, 21375							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	13.17	33.00	-19.83	1.20 H	221	76.48	-63.31
2	2535.00	12.82	33.00	-20.18	1.16 H	226	76.07	-63.25
3	2562.50	13.06	33.00	-19.94	1.23 H	225	76.25	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	20.22	33.00	-12.78	2.20 V	241	83.53	-63.31
2	2535.00	19.59	33.00	-13.41	2.18 V	235	82.84	-63.25
3	2562.50	19.63	33.00	-13.37	2.19 V	238	82.82	-63.19

LTE Band 7, Channel Bandwidth 20MHz

MODE	TX channel 20850, 21100, 21350							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	13.10	33.00	-19.90	1.15 H	225	76.41	-63.31
2	2535.00	13.25	33.00	-19.75	1.24 H	223	76.50	-63.25
3	2560.00	12.88	33.00	-20.12	1.17 H	222	76.07	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	19.60	33.00	-13.40	2.26 V	242	82.91	-63.31
2	2535.00	19.75	33.00	-13.25	2.19 V	237	83.00	-63.25
3	2560.00	19.80	33.00	-13.20	2.20 V	237	82.99	-63.19

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

Modulation Type: 16QAM

LTE Band 7, Channel Bandwidth 5MHz

MODE	TX channel 20775, 21100, 21425							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	11.69	33.00	-21.31	1.23 H	225	75.02	-63.33
2	2535.00	11.95	33.00	-21.05	1.19 H	222	75.20	-63.25
3	2567.50	11.69	33.00	-21.31	1.25 H	228	74.87	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	19.05	33.00	-13.95	2.19 V	241	82.38	-63.33
2	2535.00	18.96	33.00	-14.04	2.17 V	239	82.21	-63.25
3	2567.50	18.54	33.00	-14.46	2.16 V	240	81.72	-63.18

LTE Band 7, Channel Bandwidth 10MHz

MODE	TX channel 20800, 21100, 21400							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	11.93	33.00	-21.07	1.15 H	225	75.25	-63.32
2	2535.00	12.34	33.00	-20.66	1.22 H	223	75.59	-63.25
3	2565.00	11.81	33.00	-21.19	1.25 H	228	74.99	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	19.21	33.00	-13.79	2.23 V	235	82.53	-63.32
2	2535.00	18.96	33.00	-14.04	2.24 V	239	82.21	-63.25
3	2565.00	18.91	33.00	-14.09	2.19 V	235	82.09	-63.18

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 7, Channel Bandwidth 15MHz

MODE	TX channel 20825, 21100, 21375							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	12.15	33.00	-20.85	1.16 H	225	75.46	-63.31
2	2535.00	11.80	33.00	-21.20	1.21 H	227	75.05	-63.25
3	2562.50	12.08	33.00	-20.92	1.24 H	225	75.27	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	19.24	33.00	-13.76	2.24 V	236	82.55	-63.31
2	2535.00	18.61	33.00	-14.39	2.20 V	236	81.86	-63.25
3	2562.50	18.65	33.00	-14.35	2.25 V	235	81.84	-63.19

LTE Band 7, Channel Bandwidth 20MHz

MODE	TX channel 20850, 21100, 21350							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	12.11	33.00	-20.89	1.21 H	223	75.42	-63.31
2	2535.00	12.24	33.00	-20.76	1.18 H	227	75.49	-63.25
3	2560.00	11.88	33.00	-21.12	1.21 H	227	75.07	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	18.58	33.00	-14.42	2.26 V	241	81.89	-63.31
2	2535.00	18.74	33.00	-14.26	2.17 V	237	81.99	-63.25
3	2560.00	18.78	33.00	-14.22	2.16 V	237	81.97	-63.19

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

Modulation Type: 64QAM

LTE Band 7, Channel Bandwidth 5MHz

MODE	TX channel 20775, 21100, 21425							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	10.69	33.00	-22.31	1.25 H	225	74.02	-63.33
2	2535.00	10.94	33.00	-22.06	1.20 H	223	74.19	-63.25
3	2567.50	10.69	33.00	-22.31	1.25 H	222	73.87	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	18.07	33.00	-14.93	2.22 V	242	81.40	-63.33
2	2535.00	17.97	33.00	-15.03	2.19 V	236	81.22	-63.25
3	2567.50	17.56	33.00	-15.44	2.24 V	239	80.74	-63.18

LTE Band 7, Channel Bandwidth 10MHz

MODE	TX channel 20800, 21100, 21400							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	10.94	33.00	-22.06	1.18 H	221	74.26	-63.32
2	2535.00	11.33	33.00	-21.67	1.25 H	225	74.58	-63.25
3	2565.00	10.80	33.00	-22.20	1.16 H	224	73.98	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	18.23	33.00	-14.77	2.24 V	240	81.55	-63.32
2	2535.00	17.96	33.00	-15.04	2.23 V	236	81.21	-63.25
3	2565.00	17.89	33.00	-15.11	2.25 V	237	81.07	-63.18

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 7, Channel Bandwidth 15MHz

MODE	TX channel 20825, 21100, 21375							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	11.17	33.00	-21.83	1.19 H	228	74.48	-63.31
2	2535.00	10.79	33.00	-22.21	1.24 H	223	74.04	-63.25
3	2562.50	11.07	33.00	-21.93	1.17 H	223	74.26	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	18.25	33.00	-14.75	2.20 V	235	81.56	-63.31
2	2535.00	17.60	33.00	-15.40	2.17 V	235	80.85	-63.25
3	2562.50	17.67	33.00	-15.33	2.20 V	242	80.86	-63.19

LTE Band 7, Channel Bandwidth 20MHz

MODE	TX channel 20850, 21100, 21350							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	11.11	33.00	-21.89	1.23 H	225	74.42	-63.31
2	2535.00	11.26	33.00	-21.74	1.25 H	224	74.51	-63.25
3	2560.00	10.89	33.00	-22.11	1.20 H	225	74.08	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	17.60	33.00	-15.40	2.18 V	237	80.91	-63.31
2	2535.00	17.75	33.00	-15.25	2.17 V	237	81.00	-63.25
3	2560.00	17.76	33.00	-15.24	2.22 V	239	80.95	-63.19

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

Modulation Type: 256QAM

LTE Band 7, Channel Bandwidth 5MHz

MODE	TX channel 20775, 21100, 21425							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	9.68	33.00	-23.32	1.22 H	227	73.01	-63.33
2	2535.00	9.92	33.00	-23.08	1.23 H	224	73.17	-63.25
3	2567.50	9.68	33.00	-23.32	1.23 H	224	72.86	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	17.06	33.00	-15.94	2.22 V	238	80.39	-63.33
2	2535.00	16.97	33.00	-16.03	2.21 V	239	80.22	-63.25
3	2567.50	16.56	33.00	-16.44	2.22 V	238	79.74	-63.18

LTE Band 7, Channel Bandwidth 10MHz

MODE	TX channel 20800, 21100, 21400							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	9.96	33.00	-23.04	1.25 H	227	73.28	-63.32
2	2535.00	10.32	33.00	-22.68	1.18 H	222	73.57	-63.25
3	2565.00	9.81	33.00	-23.19	1.24 H	222	72.99	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	17.22	33.00	-15.78	2.22 V	242	80.54	-63.32
2	2535.00	16.96	33.00	-16.04	2.19 V	238	80.21	-63.25
3	2565.00	16.90	33.00	-16.10	2.20 V	236	80.08	-63.18

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 7, Channel Bandwidth 15MHz

MODE	TX channel 20825, 21100, 21375							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	10.17	33.00	-22.83	1.20 H	226	73.48	-63.31
2	2535.00	9.77	33.00	-23.23	1.25 H	227	73.02	-63.25
3	2562.50	10.05	33.00	-22.95	1.20 H	225	73.24	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	17.27	33.00	-15.73	2.22 V	239	80.58	-63.31
2	2535.00	16.59	33.00	-16.41	2.16 V	238	79.84	-63.25
3	2562.50	16.67	33.00	-16.33	2.17 V	240	79.86	-63.19

LTE Band 7, Channel Bandwidth 20MHz

MODE	TX channel 20850, 21100, 21350							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	10.11	33.00	-22.89	1.17 H	221	73.42	-63.31
2	2535.00	10.27	33.00	-22.73	1.19 H	221	73.52	-63.25
3	2560.00	9.90	33.00	-23.10	1.21 H	224	73.09	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	16.61	33.00	-16.39	2.18 V	239	79.92	-63.31
2	2535.00	16.77	33.00	-16.23	2.18 V	238	80.02	-63.25
3	2560.00	16.75	33.00	-16.25	2.18 V	242	79.94	-63.19

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 12

Modulation Type: QPSK

LTE Band 12, Channel Bandwidth 1.4MHz

MODE	TX channel 23017, 23095, 23173							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	23.77	34.77	-11.00	1.15 H	199	91.38	-67.61
2	707.50	23.91	34.77	-10.86	1.17 H	194	91.44	-67.53
3	715.30	24.22	34.77	-10.55	1.16 H	197	91.57	-67.35
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	15.50	34.77	-19.27	1.22 V	339	83.11	-67.61
2	707.50	15.49	34.77	-19.28	1.15 V	344	83.02	-67.53
3	715.30	15.77	34.77	-19.00	1.16 V	337	83.12	-67.35

LTE Band 12, Channel Bandwidth 3MHz

MODE	TX channel 23025, 23095, 23165							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	23.95	34.77	-10.82	1.11 H	166	91.56	-67.61
2	707.50	24.18	34.77	-10.59	1.14 H	166	91.71	-67.53
3	714.50	23.95	34.77	-10.82	1.14 H	172	91.32	-67.37
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	15.53	34.77	-19.24	1.25 V	343	83.14	-67.61
2	707.50	15.53	34.77	-19.24	1.14 V	340	83.06	-67.53
3	714.50	15.76	34.77	-19.01	1.14 V	338	83.13	-67.37

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 12, Channel Bandwidth 5MHz

MODE	TX channel 23035, 23095, 23155							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	23.87	34.77	-10.90	1.08 H	168	91.47	-67.60
2	707.50	24.20	34.77	-10.57	1.09 H	164	91.73	-67.53
3	713.50	24.04	34.77	-10.73	1.15 H	163	91.43	-67.39
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	15.29	34.77	-19.48	1.14 V	345	82.89	-67.60
2	707.50	15.52	34.77	-19.25	1.14 V	336	83.05	-67.53
3	713.50	15.55	34.77	-19.22	1.19 V	341	82.94	-67.39

LTE Band 12, Channel Bandwidth 10MHz

MODE	TX channel 23060, 23095, 23130							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	24.27	34.77	-10.50	1.11 H	161	91.85	-67.58
2	707.50	23.93	34.77	-10.84	1.09 H	167	91.46	-67.53
3	711.00	24.13	34.77	-10.64	1.09 H	168	91.58	-67.45
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	15.40	34.77	-19.37	1.13 V	341	82.98	-67.58
2	707.50	15.70	34.77	-19.07	1.21 V	345	83.23	-67.53
3	711.00	15.43	34.77	-19.34	1.13 V	347	82.88	-67.45

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 16QAM

LTE Band 12, Channel Bandwidth 1.4MHz

MODE	TX channel 23017, 23095, 23173							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	23.09	34.77	-11.68	1.08 H	166	90.70	-67.61
2	707.50	22.83	34.77	-11.94	1.11 H	166	90.36	-67.53
3	715.30	23.11	34.77	-11.66	1.13 H	167	90.56	-67.45
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	14.54	34.77	-20.23	1.13 V	343	82.15	-67.61
2	707.50	14.54	34.77	-20.23	1.16 V	345	82.07	-67.53
3	715.30	14.89	34.77	-19.88	1.17 V	339	82.34	-67.45

LTE Band 12, Channel Bandwidth 3MHz

MODE	TX channel 23025, 23095, 23165							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	22.94	34.77	-11.83	1.13 H	167	90.55	-67.61
2	707.50	23.21	34.77	-11.56	1.16 H	164	90.74	-67.53
3	714.50	23.12	34.77	-11.65	1.08 H	163	90.49	-67.37
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	14.72	34.77	-20.05	1.14 V	340	82.33	-67.61
2	707.50	14.35	34.77	-20.42	1.17 V	344	81.88	-67.53
3	714.50	14.58	34.77	-20.19	1.17 V	343	81.95	-67.37

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 12, Channel Bandwidth 5MHz

MODE	TX channel 23035, 23095, 23155							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	23.06	34.77	-11.71	1.11 H	168	90.66	-67.60
2	707.50	22.91	34.77	-11.86	1.15 H	166	90.44	-67.53
3	713.50	23.16	34.77	-11.61	1.12 H	165	90.53	-67.37
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	14.18	34.77	-20.59	1.19 V	340	81.78	-67.60
2	707.50	14.58	34.77	-20.19	1.18 V	343	82.11	-67.53
3	713.50	14.60	34.77	-20.17	1.16 V	342	81.97	-67.37

LTE Band 12, Channel Bandwidth 10MHz

MODE	TX channel 23060, 23095, 23130							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	23.26	34.77	-11.51	1.13 H	173	90.84	-67.58
2	707.50	13.01	34.77	-21.76	1.06 H	166	80.54	-67.53
3	711.00	23.00	34.77	-11.77	1.17 H	170	90.45	-67.45
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	14.86	34.77	-19.91	1.14 V	345	82.44	-67.58
2	707.50	14.93	34.77	-19.84	1.21 V	346	82.46	-67.53
3	711.00	14.57	34.77	-20.20	1.15 V	342	82.02	-67.45

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 64QAM

LTE Band 12, Channel Bandwidth 1.4MHz

MODE	TX channel 23017, 23095, 23173							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	22.36	34.77	-12.41	1.07 H	166	89.97	-67.61
2	707.50	22.47	34.77	-12.30	1.17 H	163	90.00	-67.53
3	715.30	22.98	34.77	-11.79	1.08 H	164	90.33	-67.35
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	13.83	34.77	-20.94	1.13 V	342	81.44	-67.61
2	707.50	14.04	34.77	-20.73	1.21 V	345	81.57	-67.53
3	715.30	14.43	34.77	-20.34	1.14 V	338	81.78	-67.35

LTE Band 12, Channel Bandwidth 3MHz

MODE	TX channel 23025, 23095, 23165							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	22.51	34.77	-12.26	1.05 H	166	90.12	-67.61
2	707.50	22.78	34.77	-11.99	1.10 H	169	90.31	-67.53
3	714.50	22.71	34.77	-12.06	1.13 H	171	90.08	-67.37
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	14.26	34.77	-20.51	1.14 V	345	81.87	-67.61
2	707.50	13.75	34.77	-21.02	1.14 V	339	81.28	-67.53
3	714.50	13.99	34.77	-20.78	1.20 V	346	81.36	-67.37

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 12, Channel Bandwidth 5MHz

MODE	TX channel 23035, 23095, 23155							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	22.54	34.77	-12.23	1.16 H	164	90.14	-67.60
2	707.50	22.47	34.77	-12.30	1.13 H	163	90.00	-67.53
3	713.50	22.75	34.77	-12.02	1.08 H	167	90.14	-67.39
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	13.43	34.77	-21.34	1.12 V	341	81.03	-67.60
2	707.50	14.11	34.77	-20.66	1.19 V	344	81.64	-67.53
3	713.50	14.01	34.77	-20.76	1.15 V	343	81.40	-67.39

LTE Band 12, Channel Bandwidth 10MHz

MODE	TX channel 23060, 23095, 23130							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	22.19	34.77	-12.58	1.17 H	168	89.77	-67.58
2	707.50	21.77	34.77	-13.00	1.13 H	163	89.30	-67.53
3	711.00	21.93	34.77	-12.84	1.05 H	163	89.32	-67.39
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	13.99	34.77	-20.78	1.22 V	345	81.57	-67.58
2	707.50	14.59	34.77	-20.18	1.17 V	336	82.12	-67.53
3	711.00	14.05	34.77	-20.72	1.21 V	347	81.44	-67.39

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 256QAM

LTE Band 12, Channel Bandwidth 1.4MHz

MODE	TX channel 23017, 23095, 23173							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	20.44	34.77	-14.33	1.12 H	167	88.05	-67.61
2	707.50	20.01	34.77	-14.76	1.10 H	169	87.54	-67.53
3	715.30	20.12	34.77	-14.65	1.08 H	166	87.47	-67.35
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	11.38	34.77	-23.39	1.22 V	340	78.99	-67.61
2	707.50	12.14	34.77	-22.63	1.23 V	345	79.67	-67.53
3	715.30	12.02	34.77	-22.75	1.11 V	341	79.37	-67.35

LTE Band 12, Channel Bandwidth 3MHz

MODE	TX channel 23025, 23095, 23165							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	20.00	34.77	-14.77	1.15 H	163	87.61	-67.61
2	707.50	20.13	34.77	-14.64	1.14 H	162	87.66	-67.53
3	714.50	20.06	34.77	-14.71	1.18 H	161	87.43	-67.37
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	11.81	34.77	-22.96	1.19 V	344	79.42	-67.61
2	707.50	11.75	34.77	-23.02	1.17 V	342	79.28	-67.53
3	714.50	11.95	34.77	-22.82	1.22 V	346	79.32	-67.37

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 12, Channel Bandwidth 5MHz

MODE	TX channel 23035, 23095, 23155							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	20.28	34.77	-14.49	1.20 H	164	87.88	-67.60
2	707.50	19.94	34.77	-14.83	1.15 H	163	87.47	-67.53
3	713.50	20.72	34.77	-14.05	1.10 H	167	88.11	-67.39
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	11.63	34.77	-23.14	1.18 V	345	79.23	-67.60
2	707.50	12.21	34.77	-22.56	1.22 V	349	79.74	-67.53
3	713.50	12.22	34.77	-22.55	1.20 V	341	79.61	-67.39

LTE Band 12, Channel Bandwidth 10MHz

MODE	TX channel 23060, 23095, 23130							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	21.08	34.77	-13.69	1.10 H	164	88.66	-67.58
2	707.50	20.98	34.77	-13.79	1.15 H	169	88.51	-67.53
3	711.00	20.32	34.77	-14.45	1.13 H	164	87.77	-67.45
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	11.92	34.77	-22.85	1.22 V	343	79.50	-67.58
2	707.50	12.03	34.77	-22.74	1.23 V	339	79.56	-67.53
3	711.00	11.97	34.77	-22.80	1.19 V	347	79.42	-67.45

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 66

Modulation Type: QPSK

LTE Band 66, Channel Bandwidth 1.4MHz

Mode	TX channel 131979, 132322, 132665							
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	1710.70	19.82	30.00	-10.18	1.44 H	50	86.55	-66.73
2	1745.00	19.69	30.00	-10.31	1.45 H	60	86.34	-66.65
3	1779.30	19.88	30.00	-10.12	1.45 H	58	86.43	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1710.70	20.42	30.00	-9.58	1.58 V	264	87.15	-66.73
2	1745.00	20.09	30.00	-9.91	1.55 V	266	86.74	-66.65
3	1779.30	20.29	30.00	-9.71	1.56 V	268	86.84	-66.55

LTE Band 66, Channel Bandwidth 3MHz

Mode	TX channel 131987, 132322, 132657							
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	1711.50	19.33	30.00	-10.67	1.43 H	49	86.05	-66.72
2	1745.00	19.58	30.00	-10.42	1.47 H	52	86.23	-66.65
3	1778.50	19.60	30.00	-10.40	1.47 H	55	86.15	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1711.50	20.34	30.00	-9.66	1.53 V	260	87.06	-66.72
2	1745.00	20.68	30.00	-9.32	1.54 V	267	87.33	-66.65
3	1778.50	20.69	30.00	-9.31	1.57 V	262	87.24	-66.55

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 66, Channel Bandwidth 5MHz

Mode	TX channel 131997, 132322, 132647							
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	1712.50	19.61	30.00	-10.39	1.40 H	51	86.33	-66.72
2	1745.00	19.55	30.00	-10.45	1.42 H	52	86.20	-66.65
3	1777.50	19.76	30.00	-10.24	1.39 H	57	86.31	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1712.50	20.79	30.00	-9.21	1.57 V	263	87.51	-66.72
2	1745.00	20.46	30.00	-9.54	1.51 V	259	87.11	-66.65
3	1777.50	20.33	30.00	-9.67	1.57 V	269	86.88	-66.55

LTE Band 66, Channel Bandwidth 10MHz

Mode	TX channel 132022, 132322, 132622							
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	1715.00	19.38	30.00	-10.62	1.40 H	53	86.10	-66.72
2	1745.00	19.77	30.00	-10.23	1.44 H	54	86.42	-66.65
3	1775.00	20.18	30.00	-9.82	1.45 H	58	86.74	-66.56
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1715.00	20.37	30.00	-9.63	1.57 V	266	87.09	-66.72
2	1745.00	20.45	30.00	-9.55	1.56 V	264	87.10	-66.65
3	1775.00	20.74	30.00	-9.26	1.59 V	268	87.30	-66.56

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

LTE Band 66, Channel Bandwidth 15MHz

Mode	TX channel 132047, 132322, 132597							
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	1717.50	19.36	30.00	-10.64	1.44 H	55	86.07	-66.71
2	1745.00	19.69	30.00	-10.31	1.42 H	59	86.34	-66.65
3	1772.50	19.61	30.00	-10.39	1.45 H	60	86.18	-66.57
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1717.50	20.31	30.00	-9.69	1.55 V	265	87.02	-66.71
2	1745.00	20.75	30.00	-9.25	1.58 V	260	87.40	-66.65
3	1772.50	20.72	30.00	-9.28	1.57 V	267	87.29	-66.57

LTE Band 66, Channel Bandwidth 20MHz

Mode	TX channel 132072, 132322, 132572							
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	1720.00	19.14	30.00	-10.86	1.51 H	55	85.84	-66.70
2	1745.00	19.35	30.00	-10.65	1.49 H	53	86.00	-66.65
3	1770.00	19.16	30.00	-10.84	1.44 H	51	85.74	-66.58
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1720.00	20.52	30.00	-9.48	1.50 V	263	87.22	-66.70
2	1745.00	20.50	30.00	-9.50	1.55 V	268	87.15	-66.65
3	1770.00	20.42	30.00	-9.58	1.58 V	264	87.00	-66.58

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

Modulation Type: 16QAM

LTE Band 66, Channel Bandwidth 1.4MHz

Mode	TX channel 131979, 132322, 132665							
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	1710.70	18.59	30.00	-11.41	1.43 H	51	85.32	-66.73
2	1745.00	18.74	30.00	-11.26	1.49 H	57	85.39	-66.65
3	1779.30	19.02	30.00	-10.98	1.40 H	53	85.57	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1710.70	19.50	30.00	-10.50	1.55 V	264	86.23	-66.73
2	1745.00	19.02	30.00	-10.98	1.58 V	263	85.67	-66.65
3	1779.30	19.49	30.00	-10.51	1.57 V	267	86.04	-66.55

LTE Band 66, Channel Bandwidth 3MHz

Mode	TX channel 131987, 132322, 132657							
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	1711.50	18.28	30.00	-11.72	1.40 H	55	85.00	-66.72
2	1745.00	18.48	30.00	-11.52	1.44 H	53	85.13	-66.65
3	1778.50	18.73	30.00	-11.27	1.40 H	57	85.28	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1711.50	19.40	30.00	-10.60	1.55 V	260	86.12	-66.72
2	1745.00	19.69	30.00	-10.31	1.59 V	261	86.34	-66.65
3	1778.50	19.79	30.00	-10.21	1.52 V	261	86.34	-66.55

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 66, Channel Bandwidth 5MHz

Mode	TX channel 131997, 132322, 132647							
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	1712.50	18.60	30.00	-11.40	1.45 H	58	85.32	-66.72
2	1745.00	18.45	30.00	-11.55	1.42 H	57	85.10	-66.65
3	1777.50	18.51	30.00	-11.49	1.43 H	55	85.06	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1712.50	19.62	30.00	-10.38	1.55 V	260	86.34	-66.72
2	1745.00	19.57	30.00	-10.43	1.57 V	263	86.22	-66.65
3	1777.50	19.44	30.00	-10.56	1.57 V	264	85.99	-66.55

LTE Band 66, Channel Bandwidth 10MHz

Mode	TX channel 132022, 132322, 132622							
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	1715.00	18.02	30.00	-11.98	1.42 H	58	84.74	-66.72
2	1745.00	18.61	30.00	-11.39	1.43 H	50	85.26	-66.65
3	1775.00	19.10	30.00	-10.90	1.45 H	57	85.66	-66.56
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1715.00	19.20	30.00	-10.80	1.57 V	263	85.92	-66.72
2	1745.00	18.99	30.00	-11.01	1.61 V	267	85.64	-66.65
3	1775.00	19.85	30.00	-10.15	1.53 V	260	86.41	-66.56

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

LTE Band 66, Channel Bandwidth 15MHz

Mode	TX channel 132047, 132322, 132597							
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	1717.50	18.26	30.00	-11.74	1.40 H	51	84.97	-66.71
2	1745.00	18.69	30.00	-11.31	1.45 H	56	85.34	-66.65
3	1772.50	18.32	30.00	-11.68	1.44 H	56	84.89	-66.57
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1717.50	19.43	30.00	-10.57	1.55 V	260	86.14	-66.71
2	1745.00	19.87	30.00	-10.13	1.55 V	260	86.52	-66.65
3	1772.50	19.92	30.00	-10.08	1.57 V	263	86.49	-66.57

LTE Band 66, Channel Bandwidth 20MHz

Mode	TX channel 132072, 132322, 132572							
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	1720.00	18.04	30.00	-11.96	1.46 H	52	84.74	-66.70
2	1745.00	18.51	30.00	-11.49	1.44 H	52	85.16	-66.65
3	1770.00	18.17	30.00	-11.83	1.56 H	269	84.75	-66.58
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1720.00	19.53	30.00	-10.47	1.54 V	262	86.23	-66.70
2	1745.00	19.77	30.00	-10.23	1.53 V	263	86.42	-66.65
3	1770.00	19.06	30.00	-10.94	1.58 V	264	85.64	-66.58

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

Modulation Type: 64QAM

LTE Band 66, Channel Bandwidth 1.4MHz

Mode	TX channel 131979, 132322, 132665							
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	1710.70	18.34	30.00	-11.66	1.46 H	52	85.07	-66.73
2	1745.00	18.29	30.00	-11.71	1.46 H	55	84.94	-66.65
3	1779.30	18.35	30.00	-11.65	1.47 H	263	84.90	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1710.70	18.90	30.00	-11.10	1.55 V	264	85.63	-66.73
2	1745.00	18.54	30.00	-11.46	1.54 V	262	85.19	-66.65
3	1779.30	18.92	30.00	-11.08	1.54 V	266	85.47	-66.55

LTE Band 66, Channel Bandwidth 3MHz

Mode	TX channel 131987, 132322, 132657							
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	1711.50	17.73	30.00	-12.27	1.42 H	52	84.45	-66.72
2	1745.00	18.02	30.00	-11.98	1.42 H	55	84.67	-66.65
3	1778.50	18.04	30.00	-11.96	1.46 H	57	84.59	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1711.50	18.94	30.00	-11.06	1.53 V	266	85.66	-66.72
2	1745.00	19.09	30.00	-10.91	1.50 V	269	85.74	-66.65
3	1778.50	19.33	30.00	-10.67	1.56 V	261	85.88	-66.55

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 66, Channel Bandwidth 5MHz

Mode	TX channel 131997, 132322, 132647							
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	1712.50	17.91	30.00	-12.09	1.47 H	59	84.63	-66.72
2	1745.00	18.06	30.00	-11.94	1.40 H	54	84.71	-66.65
3	1777.50	18.04	30.00	-11.96	1.45 H	50	84.59	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1712.50	19.15	30.00	-10.85	1.53 V	261	85.87	-66.72
2	1745.00	19.19	30.00	-10.81	1.56 V	267	85.84	-66.65
3	1777.50	18.99	30.00	-11.01	1.58 V	264	85.54	-66.55

LTE Band 66, Channel Bandwidth 10MHz

Mode	TX channel 132022, 132322, 132622							
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	1715.00	17.49	30.00	-12.51	1.43 H	47	84.21	-66.72
2	1745.00	18.32	30.00	-11.68	1.42 H	52	84.97	-66.65
3	1775.00	18.60	30.00	-11.40	1.44 H	57	85.16	-66.56
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1715.00	18.64	30.00	-11.36	1.54 V	268	85.36	-66.72
2	1745.00	18.59	30.00	-11.41	1.55 V	259	85.24	-66.65
3	1775.00	19.22	30.00	-10.78	1.52 V	272	85.78	-66.56

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

LTE Band 66, Channel Bandwidth 15MHz

Mode	TX channel 132047, 132322, 132597							
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	1717.50	17.62	30.00	-12.38	1.41 H	45	84.33	-66.71
2	1745.00	18.22	30.00	-11.78	1.40 H	53	84.87	-66.65
3	1772.50	17.75	30.00	-12.25	1.46 H	55	84.32	-66.57
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1717.50	18.93	30.00	-11.07	1.54 V	263	85.64	-66.71
2	1745.00	19.30	30.00	-10.70	1.58 V	266	85.95	-66.65
3	1772.50	19.18	30.00	-10.82	1.51 V	270	85.75	-66.57

LTE Band 66, Channel Bandwidth 20MHz

Mode	TX channel 132072, 132322, 132572							
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	1720.00	17.41	30.00	-12.59	1.44 H	51	84.11	-66.70
2	1745.00	17.91	30.00	-12.09	1.44 H	50	84.56	-66.65
3	1770.00	17.47	30.00	-12.53	1.50 H	57	84.05	-66.58
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1720.00	18.92	30.00	-11.08	1.57 V	264	85.62	-66.70
2	1745.00	19.47	30.00	-10.53	1.55 V	260	86.12	-66.65
3	1770.00	18.57	30.00	-11.43	1.57 V	268	85.15	-66.58

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

Modulation Type: 256QAM

LTE Band 66, Channel Bandwidth 1.4MHz

Mode	TX channel 131979, 132322, 132665							
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	1710.70	15.87	30.00	-14.13	1.45 H	53	82.60	-66.73
2	1745.00	15.59	30.00	-14.41	1.43 H	47	82.24	-66.65
3	1779.30	15.40	30.00	-14.60	1.43 H	54	81.95	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1710.70	17.63	30.00	-12.37	1.59 V	263	84.36	-66.73
2	1745.00	17.77	30.00	-12.23	1.61 V	261	84.42	-66.65
3	1779.30	17.92	30.00	-12.08	1.56 V	264	84.47	-66.55

LTE Band 66, Channel Bandwidth 3MHz

Mode	TX channel 131987, 132322, 132657							
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	1711.50	15.15	30.00	-14.85	1.43 H	52	81.87	-66.72
2	1745.00	15.41	30.00	-14.59	1.45 H	50	82.06	-66.65
3	1778.50	15.57	30.00	-14.43	1.49 H	56	82.12	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1711.50	17.26	30.00	-12.74	1.53 V	265	83.98	-66.72
2	1745.00	16.75	30.00	-13.25	1.53 V	261	83.40	-66.65
3	1778.50	17.13	30.00	-12.87	1.55 V	261	83.68	-66.55

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 66, Channel Bandwidth 5MHz

Mode	TX channel 131997, 132322, 132647							
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	1712.50	15.15	30.00	-14.85	1.40 H	50	81.87	-66.72
2	1745.00	15.77	30.00	-14.23	1.45 H	53	82.42	-66.65
3	1777.50	15.69	30.00	-14.31	1.55 H	56	82.24	-66.55
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1712.50	17.56	30.00	-12.44	1.57 V	261	84.28	-66.72
2	1745.00	17.35	30.00	-12.65	1.61 V	260	84.00	-66.65
3	1777.50	17.11	30.00	-12.89	1.59 V	265	83.66	-66.55

LTE Band 66, Channel Bandwidth 10MHz

Mode	TX channel 132022, 132322, 132622							
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	1715.00	15.24	30.00	-14.76	1.42 H	59	81.96	-66.72
2	1745.00	15.93	30.00	-14.07	1.43 H	50	82.58	-66.65
3	1775.00	15.66	30.00	-14.34	1.48 H	57	82.22	-66.56
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1715.00	16.17	30.00	-13.83	1.55 V	268	82.89	-66.72
2	1745.00	17.31	30.00	-12.69	1.56 V	263	83.96	-66.65
3	1775.00	17.44	30.00	-12.56	1.57 V	269	84.00	-66.56

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

LTE Band 66, Channel Bandwidth 15MHz

Mode	TX channel 132047, 132322, 132597							
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	1717.50	15.83	30.00	-14.17	1.40 H	52	82.54	-66.71
2	1745.00	15.10	30.00	-14.90	1.42 H	53	81.75	-66.65
3	1772.50	15.37	30.00	-14.63	1.47 H	50	81.94	-66.57
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1717.50	17.11	30.00	-12.89	1.53 V	266	83.82	-66.71
2	1745.00	17.31	30.00	-12.69	1.56 V	263	83.96	-66.65
3	1772.50	17.14	30.00	-12.86	1.52 V	264	83.71	-66.57

LTE Band 66, Channel Bandwidth 20MHz

Mode	TX channel 132072, 132322, 132572							
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	1720.00	15.54	30.00	-14.46	1.45 H	57	82.24	-66.70
2	1745.00	16.07	30.00	-13.93	1.42 H	53	82.72	-66.65
3	1770.00	15.78	30.00	-14.22	1.47 H	53	82.36	-66.58
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1720.00	16.72	30.00	-13.28	1.57 V	264	83.42	-66.70
2	1745.00	17.67	30.00	-12.33	1.58 V	268	84.32	-66.65
3	1770.00	16.57	30.00	-13.43	1.57 V	263	83.15	-66.58

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

External Antenna

Modulation Type: $\pi/2$ BPSK

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	15.81	30.00	-14.19	3.45 H	346	75.02	-59.21
2	3840.00	15.70	30.00	-14.30	3.51 H	350	74.28	-58.58
3	3969.99	15.82	30.00	-14.18	3.45 H	347	74.15	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	15.38	30.00	-14.62	3.16 V	349	74.59	-59.21
2	3840.00	15.48	30.00	-14.52	3.21 V	354	74.06	-58.58
3	3969.99	14.82	30.00	-15.18	3.16 V	352	73.15	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	15.93	30.00	-14.07	3.49 H	346	75.08	-59.15
2	3840.00	15.75	30.00	-14.25	3.50 H	345	74.33	-58.58
3	3960.00	16.13	30.00	-13.87	3.49 H	350	74.47	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	15.05	30.00	-14.95	3.18 V	347	74.20	-59.15
2	3840.00	15.17	30.00	-14.83	3.11 V	350	73.75	-58.58
3	3960.00	15.28	30.00	-14.72	3.16 V	348	73.62	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	16.27	30.00	-13.73	3.54 H	350	75.38	-59.11
2	3840.00	16.16	30.00	-13.84	3.46 H	346	74.74	-58.58
3	3954.99	15.61	30.00	-14.39	3.52 H	349	73.97	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	15.57	30.00	-14.43	3.20 V	353	74.68	-59.11
2	3840.00	15.02	30.00	-14.98	3.19 V	353	73.60	-58.58
3	3954.99	15.35	30.00	-14.65	3.12 V	349	73.71	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	16.01	30.00	-13.99	3.48 H	351	75.09	-59.08
2	3840.00	16.45	30.00	-13.55	3.45 H	345	75.03	-58.58
3	3949.98	16.25	30.00	-13.75	3.54 H	346	74.62	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	15.04	30.00	-14.96	3.14 V	350	74.12	-59.08
2	3840.00	15.16	30.00	-14.84	3.18 V	353	73.74	-58.58
3	3949.98	15.14	30.00	-14.86	3.19 V	349	73.51	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	16.03	30.00	-13.97	3.54 H	344	75.05	-59.02
2	3840.00	16.25	30.00	-13.75	3.46 H	349	74.83	-58.58
3	3939.99	16.45	30.00	-13.55	3.48 H	349	74.84	-58.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	15.58	30.00	-14.42	3.13 V	350	74.60	-59.02
2	3840.00	15.24	30.00	-14.76	3.14 V	351	73.82	-58.58
3	3939.99	15.48	30.00	-14.52	3.18 V	345	73.87	-58.39

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	15.61	30.00	-14.39	3.51 H	346	74.60	-58.99
2	3840.00	16.16	30.00	-13.84	3.46 H	350	74.74	-58.58
3	3934.98	16.06	30.00	-13.94	3.45 H	346	74.46	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	15.57	30.00	-14.43	3.14 V	350	74.56	-58.99
2	3840.00	15.25	30.00	-14.75	3.19 V	351	73.83	-58.58
3	3934.98	15.03	30.00	-14.97	3.19 V	354	73.43	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	16.02	30.00	-13.98	3.42 H	358	74.98	-58.96
2	3840.00	16.34	30.00	-13.66	3.41 H	345	74.92	-58.58
3	3930.00	16.12	30.00	-13.88	3.50 H	347	74.53	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	15.69	30.00	-14.31	3.11 V	347	74.65	-58.96
2	3840.00	15.25	30.00	-14.75	3.16 V	355	73.83	-58.58
3	3930.00	15.03	30.00	-14.97	3.10 V	344	73.44	-58.41

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

Modulation Type: QPSK

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	16.12	30.00	-13.88	3.45 H	346	75.33	-59.21
2	3840.00	16.03	30.00	-13.97	3.51 H	350	74.61	-58.58
3	3969.99	16.22	30.00	-13.78	3.45 H	347	74.55	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	15.76	30.00	-14.24	3.16 V	349	74.97	-59.21
2	3840.00	15.80	30.00	-14.20	3.21 V	354	74.38	-58.58
3	3969.99	15.24	30.00	-14.76	3.16 V	352	73.57	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	16.26	30.00	-13.74	3.49 H	346	75.41	-59.15
2	3840.00	16.15	30.00	-13.85	3.50 H	345	74.73	-58.58
3	3960.00	16.63	30.00	-13.37	3.49 H	350	74.97	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	15.48	30.00	-14.52	3.18 V	347	74.63	-59.15
2	3840.00	15.66	30.00	-14.34	3.11 V	350	74.24	-58.58
3	3960.00	15.79	30.00	-14.21	3.16 V	348	74.13	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	16.66	30.00	-13.34	3.54 H	350	75.77	-59.11
2	3840.00	16.56	30.00	-13.44	3.46 H	346	75.14	-58.58
3	3954.99	16.06	30.00	-13.94	3.52 H	349	74.42	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	15.70	30.00	-14.30	3.20 V	353	74.81	-59.11
2	3840.00	15.19	30.00	-14.81	3.19 V	353	73.77	-58.58
3	3954.99	15.54	30.00	-14.46	3.12 V	349	73.90	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	16.12	30.00	-13.88	3.48 H	351	75.20	-59.08
2	3840.00	16.52	30.00	-13.48	3.45 H	345	75.10	-58.58
3	3949.98	16.45	30.00	-13.55	3.54 H	346	74.82	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	15.39	30.00	-14.61	3.14 V	350	74.47	-59.08
2	3840.00	15.65	30.00	-14.35	3.18 V	353	74.23	-58.58
3	3949.98	15.39	30.00	-14.61	3.19 V	349	73.76	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	16.33	30.00	-13.67	3.54 H	344	75.35	-59.02
2	3840.00	16.48	30.00	-13.52	3.46 H	349	75.06	-58.58
3	3939.99	16.53	30.00	-13.47	3.48 H	349	74.92	-58.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	15.76	30.00	-14.24	3.13 V	350	74.78	-59.02
2	3840.00	15.43	30.00	-14.57	3.14 V	351	74.01	-58.58
3	3939.99	15.78	30.00	-14.22	3.18 V	345	74.17	-58.39

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	16.07	30.00	-13.93	3.51 H	346	75.06	-58.99
2	3840.00	16.56	30.00	-13.44	3.46 H	350	75.14	-58.58
3	3934.98	16.36	30.00	-13.64	3.45 H	346	74.76	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	15.74	30.00	-14.26	3.14 V	350	74.73	-58.99
2	3840.00	15.50	30.00	-14.50	3.19 V	351	74.08	-58.58
3	3934.98	15.25	30.00	-14.75	3.19 V	354	73.65	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	16.24	30.00	-13.76	3.42 H	358	75.20	-58.96
2	3840.00	16.42	30.00	-13.58	3.41 H	345	75.00	-58.58
3	3930.00	16.23	30.00	-13.77	3.50 H	347	74.64	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	15.89	30.00	-14.11	3.11 V	347	74.85	-58.96
2	3840.00	15.47	30.00	-14.53	3.16 V	355	74.05	-58.58
3	3930.00	15.25	30.00	-14.75	3.10 V	344	73.66	-58.41

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

Modulation Type: 16QAM

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	15.10	30.00	-14.90	3.47 H	347	74.31	-59.21
2	3840.00	15.02	30.00	-14.98	3.55 H	348	73.60	-58.58
3	3969.99	15.23	30.00	-14.77	3.50 H	347	73.56	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	14.75	30.00	-15.25	3.19 V	351	73.96	-59.21
2	3840.00	14.79	30.00	-15.21	3.14 V	350	73.37	-58.58
3	3969.99	14.22	30.00	-15.78	3.16 V	350	72.55	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	15.25	30.00	-14.75	3.45 H	347	74.40	-59.15
2	3840.00	15.13	30.00	-14.87	3.53 H	349	73.71	-58.58
3	3960.00	15.63	30.00	-14.37	3.51 H	350	73.97	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	14.46	30.00	-15.54	3.19 V	354	73.61	-59.15
2	3840.00	14.65	30.00	-15.35	3.13 V	350	73.23	-58.58
3	3960.00	14.79	30.00	-15.21	3.18 V	354	73.13	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	15.64	30.00	-14.36	3.46 H	351	74.75	-59.11
2	3840.00	15.54	30.00	-14.46	3.47 H	346	74.12	-58.58
3	3954.99	15.08	30.00	-14.92	3.47 H	348	73.44	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	14.72	30.00	-15.28	3.12 V	349	73.83	-59.11
2	3840.00	14.21	30.00	-15.79	3.20 V	352	72.79	-58.58
3	3954.99	14.52	30.00	-15.48	3.15 V	349	72.88	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	15.10	30.00	-14.90	3.50 H	349	74.18	-59.08
2	3840.00	15.52	30.00	-14.48	3.46 H	345	74.10	-58.58
3	3949.98	15.46	30.00	-14.54	3.55 H	350	73.83	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	14.37	30.00	-15.63	3.14 V	349	73.45	-59.08
2	3840.00	14.67	30.00	-15.33	3.18 V	352	73.25	-58.58
3	3949.98	14.38	30.00	-15.62	3.15 V	354	72.75	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.04	15.34	30.00	-14.66	3.45 H	344	74.36	-59.02
2	3840.00	15.46	30.00	-14.54	3.48 H	348	74.04	-58.58
3	3939.99	15.53	30.00	-14.47	3.49 H	349	73.92	-58.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.04	14.76	30.00	-15.24	3.15 V	353	73.78	-59.02
2	3840.00	14.42	30.00	-15.58	3.17 V	354	73.00	-58.58
3	3939.99	14.79	30.00	-15.21	3.11 V	351	73.18	-58.39

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	15.08	30.00	-14.92	3.55 H	344	74.07	-58.99
2	3840.00	15.56	30.00	-14.44	3.55 H	350	74.14	-58.58
3	3934.98	15.35	30.00	-14.65	3.47 H	347	73.75	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	14.73	30.00	-15.27	3.11 V	350	73.72	-58.99
2	3840.00	14.49	30.00	-15.51	3.21 V	353	73.07	-58.58
3	3934.98	14.24	30.00	-15.76	3.15 V	348	72.64	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	15.29	30.00	-14.71	3.42 H	351	74.25	-58.96
2	3840.00	15.44	30.00	-14.56	3.42 H	349	74.02	-58.58
3	3930.00	15.47	30.00	-14.53	3.42 H	353	73.88	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	14.78	30.00	-15.22	3.17 V	342	73.74	-58.96
2	3840.00	14.56	30.00	-15.44	3.30 V	342	73.14	-58.58
3	3930.00	14.28	30.00	-15.72	3.10 V	346	72.69	-58.41

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

Modulation Type: 64QAM

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	14.11	30.00	-15.89	3.53 H	346	73.32	-59.21
2	3840.00	14.02	30.00	-15.98	3.51 H	345	72.60	-58.58
3	3969.99	14.25	30.00	-15.75	3.48 H	350	72.58	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	13.76	30.00	-16.24	3.17 V	352	72.97	-59.21
2	3840.00	13.77	30.00	-16.23	3.18 V	347	72.35	-58.58
3	3969.99	13.22	30.00	-16.78	3.11 V	348	71.55	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	14.25	30.00	-15.75	3.52 H	345	73.40	-59.15
2	3840.00	14.12	30.00	-15.88	3.53 H	346	72.70	-58.58
3	3960.00	14.61	30.00	-15.39	3.54 H	345	72.95	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	13.44	30.00	-16.56	3.16 V	348	72.59	-59.15
2	3840.00	13.63	30.00	-16.37	3.17 V	351	72.21	-58.58
3	3960.00	13.80	30.00	-16.20	3.16 V	348	72.14	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	14.63	30.00	-15.37	3.50 H	348	73.74	-59.11
2	3840.00	14.54	30.00	-15.46	3.49 H	348	73.12	-58.58
3	3954.99	14.08	30.00	-15.92	3.52 H	346	72.44	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	13.74	30.00	-16.26	3.12 V	348	72.85	-59.11
2	3840.00	13.20	30.00	-16.80	3.14 V	353	71.78	-58.58
3	3954.99	13.53	30.00	-16.47	3.19 V	348	71.89	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	14.08	30.00	-15.92	3.55 H	346	73.16	-59.08
2	3840.00	14.54	30.00	-15.46	3.50 H	345	73.12	-58.58
3	3949.98	14.45	30.00	-15.55	3.48 H	347	72.82	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	13.37	30.00	-16.63	3.17 V	349	72.45	-59.08
2	3840.00	13.69	30.00	-16.31	3.17 V	355	72.27	-58.58
3	3949.98	13.36	30.00	-16.64	3.11 V	349	71.73	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	14.35	30.00	-15.65	3.47 H	347	73.37	-59.02
2	3840.00	14.47	30.00	-15.53	3.45 H	347	73.05	-58.58
3	3939.99	14.55	30.00	-15.45	3.49 H	344	72.94	-58.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	13.75	30.00	-16.25	3.15 V	350	72.77	-59.02
2	3840.00	13.42	30.00	-16.58	3.19 V	354	72.00	-58.58
3	3939.99	13.79	30.00	-16.21	3.16 V	351	72.18	-58.39

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	14.08	30.00	-15.92	3.48 H	351	73.07	-58.99
2	3840.00	14.57	30.00	-15.43	3.55 H	349	73.15	-58.58
3	3934.98	14.37	30.00	-15.63	3.50 H	351	72.77	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	13.72	30.00	-16.28	3.20 V	347	72.71	-58.99
2	3840.00	13.51	30.00	-16.49	3.13 V	353	72.09	-58.58
3	3934.98	13.26	30.00	-16.74	3.13 V	348	71.66	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	14.16	30.00	-15.84	3.44 H	358	73.12	-58.96
2	3840.00	14.53	30.00	-15.47	3.49 H	352	73.11	-58.58
3	3930.00	14.27	30.00	-15.73	3.47 H	356	72.68	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	13.68	30.00	-16.32	3.18 V	345	72.64	-58.96
2	3840.00	13.44	30.00	-16.56	3.19 V	352	72.02	-58.58
3	3930.00	13.36	30.00	-16.64	3.21 V	340	71.77	-58.41

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

Modulation Type: 256QAM

n77, Channel Bandwidth 20MHz

Mode	TX channel 647334, 656000, 664666							
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	3710.01	13.10	30.00	-16.90	3.49 H	347	72.31	-59.21
2	3840.00	13.02	30.00	-16.98	3.55 H	351	71.60	-58.58
3	3969.99	13.27	30.00	-16.73	3.54 H	348	71.60	-58.33
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3710.01	12.75	30.00	-17.25	3.13 V	348	71.96	-59.21
2	3840.00	12.76	30.00	-17.24	3.20 V	352	71.34	-58.58
3	3969.99	12.24	30.00	-17.76	3.13 V	352	70.57	-58.33

n77, Channel Bandwidth 40MHz

Mode	TX channel 648000, 656000, 664000							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	13.27	30.00	-16.73	3.49 H	347	72.42	-59.15
2	3840.00	13.13	30.00	-16.87	3.51 H	351	71.71	-58.58
3	3960.00	13.63	30.00	-16.37	3.46 H	344	71.97	-58.34
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	12.42	30.00	-17.58	3.15 V	352	71.57	-59.15
2	3840.00	12.65	30.00	-17.35	3.13 V	351	71.23	-58.58
3	3960.00	12.81	30.00	-17.19	3.17 V	354	71.15	-58.34

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

n77, Channel Bandwidth 50MHz

Mode	TX channel 648334, 656000, 663666							
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	3725.01	13.64	30.00	-16.36	3.51 H	349	72.75	-59.11
2	3840.00	13.56	30.00	-16.44	3.54 H	345	72.14	-58.58
3	3954.99	13.08	30.00	-16.92	3.45 H	351	71.44	-58.36
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3725.01	12.75	30.00	-17.25	3.14 V	350	71.86	-59.11
2	3840.00	12.22	30.00	-17.78	3.13 V	347	70.80	-58.58
3	3954.99	12.53	30.00	-17.47	3.17 V	351	70.89	-58.36

n77, Channel Bandwidth 60MHz

Mode	TX channel 648668, 656000, 663332							
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	3730.02	13.09	30.00	-16.91	3.47 H	347	72.17	-59.08
2	3840.00	13.56	30.00	-16.44	3.46 H	344	72.14	-58.58
3	3949.98	13.47	30.00	-16.53	3.52 H	344	71.84	-58.37
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3730.02	12.36	30.00	-17.64	3.15 V	353	71.44	-59.08
2	3840.00	12.68	30.00	-17.32	3.17 V	348	71.26	-58.58
3	3949.98	12.35	30.00	-17.65	3.19 V	348	70.72	-58.37

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

n77, Channel Bandwidth 80MHz

Mode	TX channel 649334, 656000, 662666							
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	3740.01	13.35	30.00	-16.65	3.46 H	345	72.37	-59.02
2	3840.00	13.49	30.00	-16.51	3.49 H	350	72.07	-58.58
3	3939.99	13.57	30.00	-16.43	3.52 H	348	71.96	-58.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.01	12.73	30.00	-17.27	3.20 V	348	71.75	-59.02
2	3840.00	12.41	30.00	-17.59	3.13 V	348	70.99	-58.58
3	3939.99	12.81	30.00	-17.19	3.11 V	347	71.20	-58.39

n77, Channel Bandwidth 90MHz

Mode	TX channel 649668, 656000, 662332							
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	3745.02	13.10	30.00	-16.90	3.54 H	348	72.09	-58.99
2	3840.00	13.56	30.00	-16.44	3.47 H	347	72.14	-58.58
3	3934.98	13.37	30.00	-16.63	3.47 H	346	71.77	-58.40
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3745.02	12.73	30.00	-17.27	3.20 V	349	71.72	-58.99
2	3840.00	12.51	30.00	-17.49	3.15 V	351	71.09	-58.58
3	3934.98	12.26	30.00	-17.74	3.14 V	347	70.66	-58.40

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

n77, Channel Bandwidth 100MHz

Mode	TX channel 650000, 656000, 662000							
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	3750.00	13.12	30.00	-16.88	3.51 H	348	72.08	-58.96
2	3840.00	12.48	30.00	-17.52	3.43 H	350	71.06	-58.58
3	3930.00	13.40	30.00	-16.60	3.44 H	342	71.81	-58.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3750.00	12.68	30.00	-17.32	3.17 V	342	71.64	-58.96
2	3840.00	12.44	30.00	-17.56	3.19 V	347	71.02	-58.58
3	3930.00	12.23	30.00	-17.77	3.15 V	345	70.64	-58.41

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

LTE Band 2

Modulation Type: QPSK

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
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	1850.70	11.49	33.00	-21.51	3.88 H	21	77.32	-65.83
2	1880.00	10.99	33.00	-22.01	3.84 H	22	76.60	-65.61
3	1909.30	11.21	33.00	-21.79	3.90 H	22	76.59	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	17.96	33.00	-15.04	1.09 V	322	83.79	-65.83
2	1880.00	17.71	33.00	-15.29	1.07 V	321	83.32	-65.61
3	1909.30	17.62	33.00	-15.38	1.13 V	322	83.00	-65.38

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
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	1851.50	11.01	33.00	-21.99	1.84 H	24	76.84	-65.83
2	1880.00	11.37	33.00	-21.63	3.86 H	18	76.98	-65.61
3	1908.50	11.08	33.00	-21.92	3.85 H	23	76.46	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	17.93	33.00	-15.07	1.10 V	316	83.76	-65.83
2	1880.00	17.90	33.00	-15.10	1.13 V	315	83.51	-65.61
3	1908.50	17.92	33.00	-15.08	1.11 V	322	83.30	-65.38

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

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
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	1852.50	11.14	33.00	-21.86	3.87 H	20	76.96	-65.82
2	1880.00	11.49	33.00	-21.51	3.80 H	25	77.10	-65.61
3	1907.50	10.96	33.00	-22.04	3.83 H	25	76.35	-65.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	17.73	33.00	-15.27	1.15 V	318	83.55	-65.82
2	1880.00	17.99	33.00	-15.01	1.15 V	319	83.60	-65.61
3	1907.50	17.80	33.00	-15.20	1.10 V	315	83.19	-65.39

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
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	1855.00	10.96	33.00	-22.04	3.88 H	19	76.76	-65.80
2	1880.00	11.53	33.00	-21.47	3.81 H	22	77.14	-65.61
3	1905.00	11.22	33.00	-21.78	3.83 H	20	76.63	-65.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	17.76	33.00	-15.24	1.08 V	319	83.56	-65.80
2	1880.00	17.84	33.00	-15.16	1.11 V	317	83.45	-65.61
3	1905.00	17.73	33.00	-15.27	1.11 V	315	83.14	-65.41

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

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
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	1857.50	11.16	33.00	-21.84	3.88 H	189	76.95	-65.79
2	1880.00	11.32	33.00	-21.68	3.88 H	22	76.93	-65.61
3	1902.50	11.06	33.00	-21.94	3.86 H	24	76.49	-65.43
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	17.96	33.00	-15.04	1.14 V	315	83.75	-65.79
2	1880.00	17.98	33.00	-15.02	1.08 V	321	83.59	-65.61
3	1902.50	17.89	33.00	-15.11	1.10 V	315	83.32	-65.43

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700, 18900, 19100							
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	1860.00	10.96	33.00	-22.04	3.86 H	21	76.72	-65.76
2	1880.00	11.50	33.00	-21.50	3.83 H	25	77.11	-65.61
3	1900.00	11.32	33.00	-21.68	3.83 H	18	76.77	-65.45
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	17.72	33.00	-15.28	1.17 V	320	83.48	-65.76
2	1880.00	17.75	33.00	-15.25	1.12 V	321	83.36	-65.61
3	1900.00	17.87	33.00	-15.13	1.15 V	319	83.32	-65.45

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

Modulation Type: 16QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
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	1850.70	10.48	33.00	-22.52	3.86 H	20	76.31	-65.83
2	1880.00	9.99	33.00	-23.01	3.90 H	20	75.60	-65.61
3	1909.30	10.19	33.00	-22.81	3.84 H	22	75.57	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	16.98	33.00	-16.02	1.17 V	321	82.81	-65.83
2	1880.00	16.72	33.00	-16.28	1.10 V	319	82.33	-65.61
3	1909.30	16.61	33.00	-16.39	1.09 V	317	81.99	-65.38

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
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	1851.50	10.01	33.00	-22.99	3.89 H	23	75.84	-65.83
2	1880.00	10.33	33.00	-22.67	3.85 H	24	75.94	-65.61
3	1908.50	10.09	33.00	-22.91	3.86 H	24	75.47	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	16.93	33.00	-16.07	1.10 V	317	82.76	-65.83
2	1880.00	16.88	33.00	-16.12	1.15 V	318	82.49	-65.61
3	1908.50	17.19	33.00	-15.81	1.11 V	322	82.57	-65.38

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

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
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	1852.50	10.14	33.00	-22.86	3.87 H	25	75.96	-65.82
2	1880.00	10.49	33.00	-22.51	3.80 H	20	76.10	-65.61
3	1907.50	9.96	33.00	-23.04	3.88 H	23	75.35	-65.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	16.72	33.00	-16.28	1.08 V	321	82.54	-65.82
2	1880.00	17.00	33.00	-16.00	1.09 V	317	82.61	-65.61
3	1907.50	16.82	33.00	-16.18	1.09 V	315	82.21	-65.39

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
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	1855.00	9.97	33.00	-23.03	3.90 H	18	75.77	-65.80
2	1880.00	10.54	33.00	-22.46	3.85 H	22	76.15	-65.61
3	1905.00	10.22	33.00	-22.78	3.80 H	19	75.63	-65.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	16.78	33.00	-16.22	1.08 V	316	82.58	-65.80
2	1880.00	16.82	33.00	-16.18	1.10 V	316	82.43	-65.61
3	1905.00	16.74	33.00	-16.26	1.10 V	315	82.15	-65.41

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

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
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	1857.50	10.17	33.00	-22.83	3.81 H	19	75.96	-65.79
2	1880.00	10.32	33.00	-22.68	3.86 H	19	75.93	-65.61
3	1902.50	10.05	33.00	-22.95	3.85 H	21	75.48	-65.43
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	17.17	33.00	-15.83	1.10 V	316	82.96	-65.79
2	1880.00	17.20	33.00	-15.80	1.13 V	316	82.81	-65.61
3	1902.50	16.90	33.00	-16.10	1.07 V	322	82.33	-65.43

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700, 18900, 19100							
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	1860.00	9.96	33.00	-23.04	3.90 H	21	75.72	-65.76
2	1880.00	10.52	33.00	-22.48	3.87 H	24	76.13	-65.61
3	1900.00	10.34	33.00	-22.66	3.84 H	22	75.79	-65.45
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	16.72	33.00	-16.28	1.11 V	318	82.48	-65.76
2	1880.00	16.75	33.00	-16.25	1.16 V	322	82.36	-65.61
3	1900.00	16.85	33.00	-16.15	1.07 V	320	82.30	-65.45

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

Modulation Type: 64QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
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	1850.70	9.46	33.00	-23.54	3.84 H	19	75.29	-65.83
2	1880.00	8.99	33.00	-24.01	3.89 H	20	74.60	-65.61
3	1909.30	9.19	33.00	-23.81	3.89 H	20	74.57	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	15.96	33.00	-17.04	1.08 V	318	81.79	-65.83
2	1880.00	15.70	33.00	-17.30	1.08 V	316	81.31	-65.61
3	1909.30	15.63	33.00	-17.37	1.14 V	320	81.01	-65.38

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
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	1851.50	9.01	33.00	-23.99	3.83 H	24	74.84	-65.83
2	1880.00	9.35	33.00	-23.65	3.81 H	24	74.96	-65.61
3	1908.50	9.08	33.00	-23.92	3.80 H	20	74.46	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	15.92	33.00	-17.08	1.10 V	315	81.75	-65.83
2	1880.00	15.90	33.00	-17.10	1.07 V	317	81.51	-65.61
3	1908.50	16.19	33.00	-16.81	1.09 V	322	81.57	-65.38

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

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
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	1852.50	9.15	33.00	-23.85	3.87 H	23	74.97	-65.82
2	1880.00	9.50	33.00	-23.50	3.80 H	21	75.11	-65.61
3	1907.50	8.97	33.00	-24.03	3.82 H	29	74.36	-65.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	15.74	33.00	-17.26	1.09 V	316	81.56	-65.82
2	1880.00	16.01	33.00	-16.99	1.11 V	315	81.62	-65.61
3	1907.50	15.80	33.00	-17.20	1.17 V	316	81.19	-65.39

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
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	1855.00	8.99	33.00	-24.01	3.83 H	25	74.79	-65.80
2	1880.00	9.53	33.00	-23.47	3.88 H	18	75.14	-65.61
3	1905.00	9.21	33.00	-23.79	3.83 H	25	74.62	-65.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	15.80	33.00	-17.20	1.13 V	322	81.60	-65.80
2	1880.00	15.84	33.00	-17.16	1.16 V	316	81.45	-65.61
3	1905.00	15.76	33.00	-17.24	1.14 V	320	81.17	-65.41

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

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
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	1857.50	9.17	33.00	-23.83	3.86 H	23	74.96	-65.79
2	1880.00	9.33	33.00	-23.67	3.87 H	22	74.94	-65.61
3	1902.50	9.06	33.00	-23.94	3.80 H	18	74.49	-65.43
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	16.19	33.00	-16.81	1.12 V	316	81.98	-65.79
2	1880.00	16.18	33.00	-16.82	1.08 V	322	81.79	-65.61
3	1902.50	15.92	33.00	-17.08	1.16 V	319	81.35	-65.43

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700, 18900, 19100							
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	1860.00	8.97	33.00	-24.03	3.84 H	19	74.73	-65.76
2	1880.00	9.50	33.00	-23.50	3.90 H	24	75.11	-65.61
3	1900.00	9.34	33.00	-23.66	3.86 H	21	74.79	-65.45
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	15.70	33.00	-17.30	1.15 V	317	81.46	-65.76
2	1880.00	15.77	33.00	-17.23	1.09 V	319	81.38	-65.61
3	1900.00	15.86	33.00	-17.14	1.09 V	319	81.31	-65.45

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

Modulation Type: 256QAM

LTE Band 2, Channel Bandwidth 1.4MHz

Mode	TX channel 18607, 18900, 19193							
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	1850.70	8.44	33.00	-24.56	3.82 H	18	74.27	-65.83
2	1880.00	7.99	33.00	-25.01	3.81 H	20	73.60	-65.61
3	1909.30	8.21	33.00	-24.79	3.85 H	19	73.59	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1850.70	14.97	33.00	-18.03	1.08 V	318	80.80	-65.83
2	1880.00	14.68	33.00	-18.32	1.14 V	319	80.29	-65.61
3	1909.30	14.63	33.00	-18.37	1.10 V	322	80.01	-65.38

LTE Band 2, Channel Bandwidth 3MHz

Mode	TX channel 18615, 18900, 19185							
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	1851.50	8.03	33.00	-24.97	3.80 H	23	73.86	-65.83
2	1880.00	8.37	33.00	-24.63	3.88 H	25	73.98	-65.61
3	1908.50	8.08	33.00	-24.92	3.81 H	21	73.46	-65.38
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.50	14.91	33.00	-18.09	1.12 V	320	80.74	-65.83
2	1880.00	14.90	33.00	-18.10	1.11 V	316	80.51	-65.61
3	1908.50	15.20	33.00	-17.80	1.17 V	321	80.58	-65.38

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

LTE Band 2, Channel Bandwidth 5MHz

Mode	TX channel 18625, 18900, 19175							
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	1852.50	8.14	33.00	-24.86	3.80 H	19	73.96	-65.82
2	1880.00	8.51	33.00	-24.49	3.85 H	24	74.12	-65.61
3	1907.50	7.98	33.00	-25.02	3.86 H	25	73.37	-65.39
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1852.50	14.72	33.00	-18.28	1.07 V	321	80.54	-65.82
2	1880.00	14.99	33.00	-18.01	1.07 V	315	80.60	-65.61
3	1907.50	14.80	33.00	-18.20	1.13 V	318	80.19	-65.39

LTE Band 2, Channel Bandwidth 10MHz

Mode	TX channel 18650, 18900, 19150							
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	1855.00	8.01	33.00	-24.99	3.89 H	19	73.81	-65.80
2	1880.00	8.53	33.00	-24.47	3.90 H	23	74.14	-65.61
3	1905.00	8.22	33.00	-24.78	3.88 H	19	73.63	-65.41
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1855.00	14.82	33.00	-18.18	1.12 V	321	80.62	-65.80
2	1880.00	14.86	33.00	-18.14	1.16 V	318	80.47	-65.61
3	1905.00	14.77	33.00	-18.23	1.08 V	317	80.18	-65.41

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

LTE Band 2, Channel Bandwidth 15MHz

Mode	TX channel 18675, 18900, 19125							
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	1857.50	8.16	33.00	-24.84	3.87 H	18	73.95	-65.79
2	1880.00	8.31	33.00	-24.69	3.82 H	21	73.92	-65.61
3	1902.50	8.04	33.00	-24.96	3.80 H	23	73.47	-65.43
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1857.50	15.11	33.00	-17.89	1.17 V	322	80.90	-65.79
2	1880.00	15.19	33.00	-17.81	1.14 V	318	80.80	-65.61
3	1902.50	14.91	33.00	-18.09	1.14 V	317	80.34	-65.43

LTE Band 2, Channel Bandwidth 20MHz

Mode	TX channel 18700, 18900, 19100							
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	1860.00	7.95	33.00	-25.05	3.82 H	20	73.71	-65.76
2	1880.00	8.52	33.00	-24.48	3.83 H	21	74.13	-65.61
3	1900.00	8.32	33.00	-24.68	3.83 H	21	73.77	-65.45
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1860.00	14.70	33.00	-18.30	1.15 V	322	80.46	-65.76
2	1880.00	14.77	33.00	-18.23	1.10 V	320	80.38	-65.61
3	1900.00	14.87	33.00	-18.13	1.13 V	316	80.32	-65.45

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

LTE Band 7

Modulation Type: QPSK

LTE Band 7, Channel Bandwidth 5MHz

MODE	TX channel 20775, 21100, 21425							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	16.12	33.00	-16.88	1.25 H	58	79.45	-63.33
2	2535.00	16.16	33.00	-16.84	1.20 H	54	79.41	-63.25
3	2567.50	15.95	33.00	-17.05	1.24 H	58	79.13	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2450.00	19.17	33.00	-13.83	1.95 V	113	82.63	-63.46
2	2502.50	19.49	33.00	-13.51	1.85 V	114	82.82	-63.33
3	2567.50	19.71	33.00	-13.29	1.85 V	110	82.89	-63.18

LTE Band 7, Channel Bandwidth 10MHz

MODE	TX channel 20800, 21100, 21400							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	16.18	33.00	-16.82	1.26 H	53	79.50	-63.32
2	2535.00	16.13	33.00	-16.87	1.16 H	54	79.38	-63.25
3	2565.00	16.19	33.00	-16.81	1.22 H	57	79.37	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	19.29	33.00	-13.71	1.86 V	110	82.61	-63.32
2	2535.00	19.27	33.00	-13.73	1.86 V	111	82.52	-63.25
3	2565.00	19.32	33.00	-13.68	1.91 V	113	82.50	-63.18

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 7, Channel Bandwidth 15MHz

MODE	TX channel 20825, 21100, 21375							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	16.23	33.00	-16.77	1.22 H	52	79.54	-63.31
2	2535.00	16.17	33.00	-16.83	1.24 H	52	79.42	-63.25
3	2562.50	15.79	33.00	-17.21	1.17 H	56	78.98	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	19.60	33.00	-13.40	1.89 V	112	82.91	-63.31
2	2535.00	19.30	33.00	-13.70	1.92 V	113	82.55	-63.25
3	2562.50	19.29	33.00	-13.71	1.93 V	112	82.48	-63.19

LTE Band 7, Channel Bandwidth 20MHz

MODE	TX channel 20850, 21100, 21350							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	16.34	33.00	-16.66	1.23 H	54	79.65	-63.31
2	2535.00	16.06	33.00	-16.94	1.21 H	52	79.31	-63.25
3	2560.00	16.24	33.00	-16.76	1.15 H	59	79.43	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	19.55	33.00	-13.45	1.09 V	109	82.86	-63.31
2	2535.00	19.68	33.00	-13.32	1.93 V	109	82.93	-63.25
3	2560.00	19.13	33.00	-13.87	1.86 V	114	82.32	-63.19

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

Modulation Type: 16QAM

LTE Band 7, Channel Bandwidth 5MHz

MODE	TX channel 20775, 21100, 21425							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	15.14	33.00	-17.86	1.25 H	58	78.47	-63.33
2	2535.00	15.18	33.00	-17.82	1.22 H	58	78.43	-63.25
3	2567.50	14.95	33.00	-18.05	1.24 H	59	78.13	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	18.48	33.00	-14.52	1.86 V	115	81.81	-63.33
2	2535.00	18.15	33.00	-14.85	1.87 V	109	81.40	-63.25
3	2567.50	18.69	33.00	-14.31	1.89 V	112	81.87	-63.18

LTE Band 7, Channel Bandwidth 10MHz

MODE	TX channel 20800, 21100, 21400							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	15.20	33.00	-17.80	1.21 H	54	78.52	-63.32
2	2535.00	15.12	33.00	-17.88	1.19 H	52	78.37	-63.25
3	2565.00	15.19	33.00	-17.81	1.18 H	58	78.37	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	18.27	33.00	-14.73	1.91 V	112	81.59	-63.32
2	2535.00	18.27	33.00	-14.73	1.90 V	109	81.52	-63.25
3	2565.00	18.33	33.00	-14.67	1.90 V	115	81.51	-63.18

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 7, Channel Bandwidth 15MHz

MODE	TX channel 20825, 21100, 21375							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	15.21	33.00	-17.79	1.24 H	56	78.52	-63.31
2	2535.00	15.16	33.00	-17.84	1.15 H	52	78.41	-63.25
3	2562.50	14.77	33.00	-18.23	1.18 H	59	77.96	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	18.58	33.00	-14.42	1.93 V	110	81.89	-63.31
2	2535.00	18.28	33.00	-14.72	1.90 V	112	81.53	-63.25
3	2562.50	18.30	33.00	-14.70	1.85 V	112	81.49	-63.19

LTE Band 7, Channel Bandwidth 20MHz

MODE	TX channel 20850, 21100, 21350							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	15.36	33.00	-17.64	1.20 H	53	78.67	-63.31
2	2535.00	15.05	33.00	-17.95	1.15 H	57	78.30	-63.25
3	2560.00	15.25	33.00	-17.75	1.22 H	56	78.44	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	18.55	33.00	-14.45	1.89 V	110	81.86	-63.31
2	2535.00	18.69	33.00	-14.31	1.88 V	114	81.94	-63.25
3	2560.00	18.15	33.00	-14.85	1.88 V	115	81.34	-63.19

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

Modulation Type: 64QAM

LTE Band 7, Channel Bandwidth 5MHz

MODE	TX channel 20775, 21100, 21425							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	14.15	33.00	-18.85	1.25 H	56	77.48	-63.33
2	2535.00	14.17	33.00	-18.83	1.15 H	53	77.42	-63.25
3	2567.50	13.94	33.00	-19.06	1.22 H	58	77.12	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	17.49	33.00	-15.51	1.92 V	116	80.82	-63.33
2	2535.00	17.14	33.00	-15.86	1.92 V	109	80.39	-63.25
3	2567.50	17.71	33.00	-15.29	1.89 V	113	80.89	-63.18

LTE Band 7, Channel Bandwidth 10MHz

MODE	TX channel 20800, 21100, 21400							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	14.20	33.00	-18.80	1.18 H	54	77.52	-63.32
2	2535.00	14.11	33.00	-18.89	1.25 H	59	77.36	-63.25
3	2565.00	14.21	33.00	-18.79	1.18 H	55	77.39	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	17.29	33.00	-15.71	1.93 V	114	80.61	-63.32
2	2535.00	17.25	33.00	-15.75	1.93 V	116	80.50	-63.25
3	2565.00	17.33	33.00	-15.67	1.91 V	110	80.51	-63.18

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 7, Channel Bandwidth 15MHz

MODE	TX channel 20825, 21100, 21375							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	14.23	33.00	-18.77	1.25 H	57	77.54	-63.31
2	2535.00	14.14	33.00	-18.86	1.23 H	54	77.39	-63.25
3	2562.50	13.76	33.00	-19.24	1.23 H	54	76.95	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	17.56	33.00	-15.44	1.87 V	110	80.87	-63.31
2	2535.00	17.26	33.00	-15.74	1.92 V	112	80.51	-63.25
3	2562.50	17.32	33.00	-15.68	1.91 V	111	80.51	-63.19

LTE Band 7, Channel Bandwidth 20MHz

MODE	TX channel 20850, 21100, 21350							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	14.35	33.00	-18.65	1.24 H	56	77.66	-63.31
2	2535.00	14.06	33.00	-18.94	1.17 H	53	77.31	-63.25
3	2560.00	14.23	33.00	-18.77	1.20 H	52	77.42	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	17.55	33.00	-15.45	1.94 V	112	80.86	-63.31
2	2535.00	17.71	33.00	-15.29	1.92 V	110	80.96	-63.25
3	2560.00	17.16	33.00	-15.84	1.75 V	110	80.35	-63.19

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

Modulation Type: 256QAM

LTE Band 7, Channel Bandwidth 5MHz

MODE	TX channel 20775, 21100, 21425							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	13.13	33.00	-19.87	1.15 H	54	76.46	-63.33
2	2535.00	13.18	33.00	-19.82	1.17 H	56	76.43	-63.25
3	2567.50	12.93	33.00	-20.07	1.15 H	57	76.11	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2502.50	16.49	33.00	-16.51	1.92 V	110	79.82	-63.33
2	2535.00	16.14	33.00	-16.86	1.92 V	116	79.39	-63.25
3	2567.50	16.72	33.00	-16.28	1.92 V	112	79.90	-63.18

LTE Band 7, Channel Bandwidth 10MHz

MODE	TX channel 20800, 21100, 21400							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	13.22	33.00	-19.78	1.19 H	53	76.54	-63.32
2	2535.00	13.13	33.00	-19.87	1.17 H	55	76.38	-63.25
3	2565.00	13.20	33.00	-19.80	1.19 H	53	76.38	-63.18
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2505.00	16.30	33.00	-16.70	1.89 V	113	79.62	-63.32
2	2535.00	16.26	33.00	-16.74	1.86 V	111	79.51	-63.25
3	2565.00	16.35	33.00	-16.65	1.92 V	111	79.53	-63.18

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 7, Channel Bandwidth 15MHz

MODE	TX channel 20825, 21100, 21375							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	13.24	33.00	-19.76	1.23 H	58	76.55	-63.31
2	2535.00	13.15	33.00	-19.85	1.24 H	55	76.40	-63.25
3	2562.50	12.74	33.00	-20.26	1.21 H	54	75.93	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2507.50	16.55	33.00	-16.45	1.86 V	109	79.86	-63.31
2	2535.00	16.27	33.00	-16.73	1.92 V	116	79.52	-63.25
3	2562.50	16.35	33.00	-16.65	1.92 V	115	79.54	-63.19

LTE Band 7, Channel Bandwidth 20MHz

MODE	TX channel 20850, 21100, 21350							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	13.36	33.00	-19.64	1.18 H	56	76.67	-63.31
2	2535.00	13.08	33.00	-19.92	1.18 H	54	76.33	-63.25
3	2560.00	13.22	33.00	-19.78	1.18 H	55	76.41	-63.19
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	2510.00	16.53	33.00	-16.47	1.88 V	124	79.84	-63.31
2	2535.00	16.73	33.00	-16.27	1.86 V	110	79.98	-63.25
3	2560.00	16.18	33.00	-16.82	1.95 V	113	79.37	-63.19

Remarks:

1. EIRP(dBm) = Reading(dBuV/m) + 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

LTE Band 12

Modulation Type: QPSK

LTE Band 12, Channel Bandwidth 1.4MHz

MODE	TX channel 23017, 23095, 23173							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	15.06	34.77	-19.71	1.15 H	247	90.29	-75.23
2	707.50	15.16	34.77	-19.61	1.21 H	249	90.35	-75.19
3	715.30	15.00	34.77	-19.77	1.24 H	253	90.06	-75.06
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	18.79	34.77	-15.98	1.56 V	189	94.02	-75.23
2	707.50	18.78	34.77	-15.99	1.57 V	186	93.97	-75.19
3	715.30	18.46	34.77	-16.31	1.54 V	187	93.52	-75.06

LTE Band 12, Channel Bandwidth 3MHz

MODE	TX channel 23025, 23095, 23165							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	15.16	34.77	-19.61	1.21 H	254	90.38	-75.22
2	707.50	15.21	34.77	-19.56	1.22 H	247	90.40	-75.19
3	714.50	15.08	34.77	-19.69	1.20 H	252	90.16	-75.08
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	18.58	34.77	-16.19	1.57 V	192	93.80	-75.22
2	707.50	18.50	34.77	-16.27	1.48 V	187	93.69	-75.19
3	714.50	18.67	34.77	-16.10	1.53 V	193	93.75	-75.08

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 12, Channel Bandwidth 5MHz

MODE	TX channel 23035, 23095, 23155							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	15.19	34.77	-19.58	1.17 H	248	90.40	-75.21
2	707.50	15.12	34.77	-19.65	1.25 H	251	90.31	-75.19
3	713.50	15.24	34.77	-19.53	1.25 H	254	90.34	-75.10
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	18.57	34.77	-16.20	1.47 V	191	93.78	-75.21
2	707.50	18.50	34.77	-16.27	1.56 V	190	93.69	-75.19
3	713.50	18.66	34.77	-16.11	1.51 V	190	93.76	-75.10

LTE Band 12, Channel Bandwidth 10MHz

MODE	TX channel 23060, 23095, 23130							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	15.23	34.77	-19.54	1.15 H	252	90.42	-75.19
2	707.50	14.97	34.77	-19.80	1.24 H	250	90.16	-75.19
3	711.00	15.12	34.77	-19.65	1.25 H	252	90.28	-75.16
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	18.65	34.77	-16.12	1.53 V	193	93.84	-75.19
2	707.50	18.64	34.77	-16.13	1.55 V	187	93.83	-75.19
3	711.00	18.74	34.77	-16.03	1.50 V	189	93.90	-75.16

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 16QAM

LTE Band 12, Channel Bandwidth 1.4MHz

MODE	TX channel 23017, 23095, 23173							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	14.08	34.77	-20.69	1.15 H	249	89.31	-75.23
2	707.50	14.17	34.77	-20.60	1.25 H	250	89.36	-75.19
3	715.30	13.99	34.77	-20.78	1.20 H	253	89.05	-75.06
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	17.77	34.77	-17.00	1.47 V	186	93.00	-75.23
2	707.50	17.79	34.77	-16.98	1.53 V	190	92.98	-75.19
3	715.30	17.48	34.77	-17.29	1.56 V	191	92.54	-75.06

LTE Band 12, Channel Bandwidth 3MHz

MODE	TX channel 23025, 23095, 23165							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	14.16	34.77	-20.61	1.20 H	250	89.38	-75.22
2	707.50	14.22	34.77	-20.55	1.15 H	252	89.41	-75.19
3	714.50	14.08	34.77	-20.69	1.24 H	254	89.16	-75.08
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	17.59	34.77	-17.18	1.50 V	191	92.81	-75.22
2	707.50	17.49	34.77	-17.28	1.51 V	192	92.68	-75.19
3	714.50	17.67	34.77	-17.10	1.54 V	188	92.75	-75.08

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 12, Channel Bandwidth 5MHz

MODE	TX channel 23035, 23095, 23155							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	14.20	34.77	-20.57	1.18 H	251	89.41	-75.21
2	707.50	14.14	34.77	-20.63	1.16 H	251	89.33	-75.19
3	713.50	14.26	34.77	-20.51	1.16 H	251	89.36	-75.10
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	17.58	34.77	-17.19	1.51 V	186	92.79	-75.21
2	707.50	17.52	34.77	-17.25	1.50 V	186	92.71	-75.19
3	713.50	17.65	34.77	-17.12	1.48 V	193	92.75	-75.10

LTE Band 12, Channel Bandwidth 10MHz

MODE	TX channel 23060, 23095, 23130							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	14.23	34.77	-20.54	1.15 H	254	89.42	-75.19
2	707.50	13.96	34.77	-20.81	1.16 H	252	89.15	-75.19
3	711.00	14.12	34.77	-20.65	1.21 H	253	89.28	-75.16
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	17.66	34.77	-17.11	1.49 V	193	92.85	-75.19
2	707.50	17.62	34.77	-17.15	1.54 V	187	92.81	-75.19
3	711.00	17.73	34.77	-17.04	1.47 V	193	92.89	-75.16

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 64QAM

LTE Band 12, Channel Bandwidth 1.4MHz

MODE	TX channel 23017, 23095, 23173							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	13.06	34.77	-21.71	1.17 H	251	88.29	-75.23
2	707.50	13.17	34.77	-21.60	1.22 H	247	88.36	-75.19
3	715.30	12.99	34.77	-21.78	1.25 H	253	88.05	-75.06
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	16.78	34.77	-17.99	1.48 V	188	92.01	-75.23
2	707.50	16.77	34.77	-18.00	1.54 V	190	91.96	-75.19
3	715.30	16.48	34.77	-18.29	1.52 V	193	91.54	-75.06

LTE Band 12, Channel Bandwidth 3MHz

MODE	TX channel 23025, 23095, 23165							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	13.15	34.77	-21.62	1.16 H	248	88.37	-75.22
2	707.50	13.20	34.77	-21.57	1.15 H	251	88.39	-75.19
3	714.50	13.10	34.77	-21.67	1.20 H	249	88.18	-75.08
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	16.61	34.77	-18.16	1.56 V	187	91.83	-75.22
2	707.50	16.49	34.77	-18.28	1.47 V	189	91.68	-75.19
3	714.50	16.69	34.77	-18.08	1.52 V	190	91.77	-75.08

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 12, Channel Bandwidth 5MHz

MODE	TX channel 23035, 23095, 23155							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	13.19	34.77	-21.58	1.22 H	249	88.40	-75.21
2	707.50	13.14	34.77	-21.63	1.23 H	247	88.33	-75.19
3	713.50	13.28	34.77	-21.49	1.19 H	249	88.38	-75.10
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	16.60	34.77	-18.17	1.56 V	193	91.81	-75.21
2	707.50	16.51	34.77	-18.26	1.56 V	186	91.70	-75.19
3	713.50	16.64	34.77	-18.13	1.53 V	187	91.74	-75.10

LTE Band 12, Channel Bandwidth 10MHz

MODE	TX channel 23060, 23095, 23130							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	13.24	34.77	-21.53	1.18 H	247	88.43	-75.19
2	707.50	12.96	34.77	-21.81	1.15 H	252	88.15	-75.19
3	711.00	13.11	34.77	-21.66	1.20 H	249	88.27	-75.16
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	16.65	34.77	-18.12	1.51 V	192	91.84	-75.19
2	707.50	16.60	34.77	-18.17	1.55 V	193	91.79	-75.19
3	711.00	16.72	34.77	-18.05	1.49 V	191	91.88	-75.16

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

Modulation Type: 256QAM

LTE Band 12, Channel Bandwidth 1.4MHz

MODE	TX channel 23017, 23095, 23173							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	12.04	34.77	-22.73	1.23 H	252	87.27	-75.23
2	707.50	12.15	34.77	-22.62	1.25 H	250	87.34	-75.19
3	715.30	11.97	34.77	-22.80	1.20 H	253	87.03	-75.06
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	699.70	15.80	34.77	-18.97	1.52 V	188	91.03	-75.23
2	707.50	15.75	34.77	-19.02	1.54 V	189	90.94	-75.19
3	715.30	15.47	34.77	-19.30	1.55 V	192	90.53	-75.06

LTE Band 12, Channel Bandwidth 3MHz

MODE	TX channel 23025, 23095, 23165							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	12.15	34.77	-22.62	1.16 H	254	87.37	-75.22
2	707.50	12.19	34.77	-22.58	1.15 H	250	87.38	-75.19
3	714.50	12.08	34.77	-22.69	1.20 H	254	87.16	-75.08
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	700.50	15.60	34.77	-19.17	1.56 V	191	90.82	-75.22
2	707.50	15.51	34.77	-19.26	1.49 V	190	90.70	-75.19
3	714.50	15.70	34.77	-19.07	1.49 V	192	90.78	-75.08

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 12, Channel Bandwidth 5MHz

MODE	TX channel 23035, 23095, 23155							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	12.17	34.77	-22.60	1.19 H	247	87.38	-75.21
2	707.50	12.12	34.77	-22.65	1.17 H	249	87.31	-75.19
3	713.50	12.27	34.77	-22.50	1.22 H	254	87.37	-75.10
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	701.50	15.62	34.77	-19.15	1.49 V	186	90.83	-75.21
2	707.50	15.50	34.77	-19.27	1.52 V	193	90.69	-75.19
3	713.50	15.65	34.77	-19.12	1.47 V	189	90.75	-75.10

LTE Band 12, Channel Bandwidth 10MHz

MODE	TX channel 23060, 23095, 23130							
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	12.24	34.77	-22.53	1.16 H	250	87.43	-75.19
2	707.50	11.94	34.77	-22.83	1.25 H	252	87.13	-75.19
3	711.00	12.09	34.77	-22.68	1.21 H	251	87.25	-75.16
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Reading (dBuV/m)	Correction Factor (dB/m)
1	704.00	15.64	34.77	-19.13	1.57 V	186	90.83	-75.19
2	707.50	15.59	34.77	-19.18	1.57 V	186	90.78	-75.19
3	711.00	15.72	34.77	-19.05	1.51 V	192	90.88	-75.16

Remarks:

1. ERP(dBm) = Reading(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value

LTE Band 66

Modulation Type: QPSK

LTE Band 66, Channel Bandwidth 1.4MHz

Mode	TX channel 131979, 132322, 132665							
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	1710.70	16.30	30.00	-13.70	3.23 H	34	82.80	-66.50
2	1745.00	16.40	30.00	-13.60	3.21 H	52	82.80	-66.40
3	1779.30	16.20	30.00	-13.80	3.15 H	59	82.50	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1710.70	19.20	30.00	-10.80	2.09 V	109	85.70	-66.50
2	1745.00	19.40	30.00	-10.60	1.93 V	110	85.80	-66.40
3	1779.30	19.10	30.00	-10.90	1.86 V	114	85.40	-66.30

LTE Band 66, Channel Bandwidth 3MHz

Mode	TX channel 131987, 132322, 132657							
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	1711.50	16.10	30.00	-13.90	3.26 H	39	82.60	-66.50
2	1745.00	16.50	30.00	-13.50	3.25 H	60	82.90	-66.40
3	1778.50	16.40	30.00	-13.60	3.10 H	61	82.70	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1711.50	19.00	30.00	-11.00	1.99 V	99	85.50	-66.50
2	1745.00	19.50	30.00	-10.50	1.99 V	109	85.90	-66.40
3	1778.50	19.20	30.00	-10.80	1.83 V	115	85.50	-66.30

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

LTE Band 66, Channel Bandwidth 5MHz

Mode	TX channel 131997, 132322, 132647							
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	1712.50	16.30	30.00	-13.70	3.30 H	35	82.80	-66.50
2	1745.00	16.60	30.00	-13.40	3.20 H	59	83.00	-66.40
3	1777.50	16.30	30.00	-13.70	3.19 H	69	82.60	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1712.50	19.10	30.00	-10.90	1.90 V	94	85.60	-66.50
2	1745.00	19.60	30.00	-10.40	1.89 V	107	86.00	-66.40
3	1777.50	19.30	30.00	-10.70	1.87 V	110	85.60	-66.30

LTE Band 66, Channel Bandwidth 10MHz

Mode	TX channel 132022, 132322, 132622							
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	1715.00	16.40	30.00	-13.60	3.40 H	29	82.90	-66.50
2	1745.00	16.60	30.00	-13.40	3.33 H	31	83.00	-66.40
3	1775.00	16.20	30.00	-13.80	3.22 H	41	82.50	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1715.00	18.50	30.00	-11.50	1.80 V	114	85.00	-66.50
2	1745.00	19.20	30.00	-10.80	1.87 V	120	85.60	-66.40
3	1775.00	19.00	30.00	-11.00	1.85 V	119	85.30	-66.30

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

LTE Band 66, Channel Bandwidth 15MHz

Mode	TX channel 132047, 132322, 132597							
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	1717.50	16.20	30.00	-13.80	3.48 H	22	82.70	-66.50
2	1745.00	16.80	30.00	-13.20	3.43 H	41	83.20	-66.40
3	1772.50	16.50	30.00	-13.50	3.52 H	40	82.80	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1717.50	18.60	30.00	-11.40	2.00 V	125	85.10	-66.50
2	1745.00	19.60	30.00	-10.40	1.89 V	120	86.00	-66.40
3	1772.50	19.40	30.00	-10.60	1.95 V	133	85.70	-66.30

LTE Band 66, Channel Bandwidth 20MHz

Mode	TX channel 132072, 132322, 132572							
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	1720.00	16.30	30.00	-13.70	2.98 H	22	82.80	-66.50
2	1745.00	16.60	30.00	-13.40	3.18 H	29	83.00	-66.40
3	1770.00	16.30	30.00	-13.70	3.10 H	66	82.60	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1720.00	19.50	30.00	-10.50	2.11 V	133	86.00	-66.50
2	1745.00	19.90	30.00	-10.10	1.99 V	150	86.30	-66.40
3	1770.00	19.70	30.00	-10.30	1.95 V	139	86.00	-66.30

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

Modulation Type: 16QAM

LTE Band 66, Channel Bandwidth 1.4MHz

Mode	TX channel 131979, 132322, 132665							
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	1710.70	15.30	30.00	-14.70	3.23 H	34	81.80	-66.50
2	1745.00	15.30	30.00	-14.70	3.21 H	52	81.70	-66.40
3	1779.30	15.20	30.00	-14.80	3.15 H	59	81.50	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1710.70	18.20	30.00	-11.80	2.09 V	109	84.70	-66.50
2	1745.00	18.40	30.00	-11.60	1.93 V	110	84.80	-66.40
3	1779.30	18.00	30.00	-12.00	1.86 V	114	84.30	-66.30

LTE Band 66, Channel Bandwidth 3MHz

Mode	TX channel 131987, 132322, 132657							
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	1711.50	15.10	30.00	-14.90	3.26 H	39	81.60	-66.50
2	1745.00	15.50	30.00	-14.50	3.25 H	60	81.90	-66.40
3	1778.50	15.40	30.00	-14.60	3.10 H	61	81.70	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1711.50	18.00	30.00	-12.00	1.99 V	99	84.50	-66.50
2	1745.00	18.50	30.00	-11.50	1.99 V	109	84.90	-66.40
3	1778.50	18.10	30.00	-11.90	1.83 V	115	84.40	-66.30

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

LTE Band 66, Channel Bandwidth 5MHz

Mode	TX channel 131997, 132322, 132647							
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	1712.50	15.30	30.00	-14.70	3.30 H	35	81.80	-66.50
2	1745.00	15.50	30.00	-14.50	3.20 H	59	81.90	-66.40
3	1777.50	15.20	30.00	-14.80	3.19 H	69	81.50	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1712.50	18.00	30.00	-12.00	1.90 V	94	84.50	-66.50
2	1745.00	18.60	30.00	-11.40	1.89 V	107	85.00	-66.40
3	1777.50	18.30	30.00	-11.70	1.87 V	110	84.60	-66.30

LTE Band 66, Channel Bandwidth 10MHz

Mode	TX channel 132022, 132322, 132622							
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	1715.00	15.40	30.00	-14.60	3.40 H	29	81.90	-66.50
2	1745.00	15.60	30.00	-14.40	3.33 H	31	82.00	-66.40
3	1775.00	15.10	30.00	-14.90	3.22 H	41	81.40	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1715.00	17.50	30.00	-12.50	1.80 V	114	84.00	-66.50
2	1745.00	18.20	30.00	-11.80	1.87 V	120	84.60	-66.40
3	1775.00	18.00	30.00	-12.00	1.85 V	119	84.30	-66.30

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

LTE Band 66, Channel Bandwidth 15MHz

Mode	TX channel 132047, 132322, 132597							
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	1717.50	15.20	30.00	-14.80	3.48 H	22	81.70	-66.50
2	1745.00	15.80	30.00	-14.20	3.43 H	41	82.20	-66.40
3	1772.50	15.60	30.00	-14.40	3.52 H	40	81.90	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1717.50	17.60	30.00	-12.40	2.00 V	125	84.10	-66.50
2	1745.00	18.60	30.00	-11.40	1.89 V	120	85.00	-66.40
3	1772.50	18.40	30.00	-11.60	1.95 V	133	84.70	-66.30

LTE Band 66, Channel Bandwidth 20MHz

Mode	TX channel 132072, 132322, 132572							
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	1720.00	15.20	30.00	-14.80	2.98 H	22	81.70	-66.50
2	1745.00	15.60	30.00	-14.40	3.18 H	29	82.00	-66.40
3	1770.00	15.30	30.00	-14.70	3.10 H	66	81.60	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1720.00	18.40	30.00	-11.60	2.11 V	133	84.90	-66.50
2	1745.00	18.90	30.00	-11.10	1.99 V	150	85.30	-66.40
3	1770.00	18.70	30.00	-11.30	1.95 V	139	85.00	-66.30

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

Modulation Type: 64QAM

LTE Band 66, Channel Bandwidth 1.4MHz

Mode	TX channel 131979, 132322, 132665							
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	1710.70	14.70	30.00	-15.30	3.23 H	34	81.20	-66.50
2	1745.00	14.80	30.00	-15.20	3.21 H	52	81.20	-66.40
3	1779.30	14.40	30.00	-15.60	3.15 H	59	80.70	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1710.70	17.60	30.00	-12.40	2.09 V	109	84.10	-66.50
2	1745.00	17.50	30.00	-12.50	1.93 V	110	83.90	-66.40
3	1779.30	17.00	30.00	-13.00	1.86 V	114	83.30	-66.30

LTE Band 66, Channel Bandwidth 3MHz

Mode	TX channel 131987, 132322, 132657							
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	1711.50	14.50	30.00	-15.50	3.26 H	39	81.00	-66.50
2	1745.00	14.90	30.00	-15.10	3.25 H	60	81.30	-66.40
3	1778.50	14.80	30.00	-15.20	3.10 H	61	81.10	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1711.50	17.00	30.00	-13.00	1.99 V	99	83.50	-66.50
2	1745.00	17.50	30.00	-12.50	1.99 V	109	83.90	-66.40
3	1778.50	17.40	30.00	-12.60	1.83 V	115	83.70	-66.30

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

LTE Band 66, Channel Bandwidth 5MHz

Mode	TX channel 131997, 132322, 132647							
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	1712.50	14.50	30.00	-15.50	3.30 H	35	81.00	-66.50
2	1745.00	14.80	30.00	-15.20	3.20 H	59	81.20	-66.40
3	1777.50	14.40	30.00	-15.60	3.19 H	69	80.70	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1712.50	17.30	30.00	-12.70	1.90 V	94	83.80	-66.50
2	1745.00	17.60	30.00	-12.40	1.89 V	107	84.00	-66.40
3	1777.50	17.50	30.00	-12.50	1.87 V	110	83.80	-66.30

LTE Band 66, Channel Bandwidth 10MHz

Mode	TX channel 132022, 132322, 132622							
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	1715.00	14.40	30.00	-15.60	3.40 H	29	80.90	-66.50
2	1745.00	15.00	30.00	-15.00	3.33 H	31	81.40	-66.40
3	1775.00	14.50	30.00	-15.50	3.22 H	41	80.80	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1715.00	16.60	30.00	-13.40	1.80 V	114	83.10	-66.50
2	1745.00	17.40	30.00	-12.60	1.87 V	120	83.80	-66.40
3	1775.00	17.20	30.00	-12.80	1.85 V	119	83.50	-66.30

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

LTE Band 66, Channel Bandwidth 15MHz

Mode	TX channel 132047, 132322, 132597							
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	1717.50	14.30	30.00	-15.70	3.48 H	22	80.80	-66.50
2	1745.00	14.90	30.00	-15.10	3.43 H	41	81.30	-66.40
3	1772.50	14.60	30.00	-15.40	3.52 H	40	80.90	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1717.50	16.90	30.00	-13.10	2.00 V	125	83.40	-66.50
2	1745.00	17.90	30.00	-12.10	1.89 V	120	84.30	-66.40
3	1772.50	17.60	30.00	-12.40	1.95 V	133	83.90	-66.30

LTE Band 66, Channel Bandwidth 20MHz

Mode	TX channel 132072, 132322, 132572							
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	1720.00	14.40	30.00	-15.60	2.98 H	22	80.90	-66.50
2	1745.00	14.80	30.00	-15.20	3.18 H	29	81.20	-66.40
3	1770.00	14.50	30.00	-15.50	3.10 H	66	80.80	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1720.00	17.60	30.00	-12.40	2.11 V	133	84.10	-66.50
2	1745.00	18.00	30.00	-12.00	1.99 V	150	84.40	-66.40
3	1770.00	17.70	30.00	-12.30	1.95 V	139	84.00	-66.30

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

Modulation Type: 256QAM

LTE Band 66, Channel Bandwidth 1.4MHz

Mode	TX channel 131979, 132322, 132665							
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	1710.70	13.70	30.00	-16.30	3.23 H	34	80.20	-66.50
2	1745.00	13.80	30.00	-16.20	3.21 H	52	80.20	-66.40
3	1779.30	13.40	30.00	-16.60	3.15 H	59	79.70	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1710.70	16.60	30.00	-13.40	2.09 V	109	83.10	-66.50
2	1745.00	16.50	30.00	-13.50	1.93 V	110	82.90	-66.40
3	1779.30	16.00	30.00	-14.00	1.86 V	114	82.30	-66.30

LTE Band 66, Channel Bandwidth 3MHz

Mode	TX channel 131987, 132322, 132657							
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	1711.50	13.50	30.00	-16.50	3.26 H	39	80.00	-66.50
2	1745.00	13.90	30.00	-16.10	3.25 H	60	80.30	-66.40
3	1778.50	13.80	30.00	-16.20	3.10 H	61	80.10	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1711.50	16.00	30.00	-14.00	1.99 V	99	82.50	-66.50
2	1745.00	16.50	30.00	-13.50	1.99 V	109	82.90	-66.40
3	1778.50	16.40	30.00	-13.60	1.83 V	115	82.70	-66.30

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

LTE Band 66, Channel Bandwidth 5MHz

Mode	TX channel 131997, 132322, 132647							
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	1712.50	13.50	30.00	-16.50	3.30 H	35	80.00	-66.50
2	1745.00	13.80	30.00	-16.20	3.20 H	59	80.20	-66.40
3	1777.50	13.40	30.00	-16.60	3.19 H	69	79.70	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1712.50	16.30	30.00	-13.70	1.90 V	94	82.80	-66.50
2	1745.00	16.60	30.00	-13.40	1.89 V	107	83.00	-66.40
3	1777.50	16.50	30.00	-13.50	1.87 V	110	82.80	-66.30

LTE Band 66, Channel Bandwidth 10MHz

Mode	TX channel 132022, 132322, 132622							
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	1715.00	13.40	30.00	-16.60	3.40 H	29	79.90	-66.50
2	1745.00	14.00	30.00	-16.00	3.33 H	31	80.40	-66.40
3	1775.00	13.50	30.00	-16.50	3.22 H	41	79.80	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1715.00	15.60	30.00	-14.40	1.80 V	114	82.10	-66.50
2	1745.00	16.40	30.00	-13.60	1.87 V	120	82.80	-66.40
3	1775.00	16.20	30.00	-13.80	1.85 V	119	82.50	-66.30

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

LTE Band 66, Channel Bandwidth 15MHz

Mode	TX channel 132047, 132322, 132597							
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	1717.50	13.30	30.00	-16.70	3.48 H	22	79.80	-66.50
2	1745.00	13.90	30.00	-16.10	3.43 H	41	80.30	-66.40
3	1772.50	13.60	30.00	-16.40	3.52 H	40	79.90	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1717.50	15.90	30.00	-14.10	2.00 V	125	82.40	-66.50
2	1745.00	16.90	30.00	-13.10	1.89 V	120	83.30	-66.40
3	1772.50	16.60	30.00	-13.40	1.95 V	133	82.90	-66.30

LTE Band 66, Channel Bandwidth 20MHz

Mode	TX channel 132072, 132322, 132572							
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	1720.00	13.40	30.00	-16.60	2.98 H	22	79.90	-66.50
2	1745.00	13.80	30.00	-16.20	3.18 H	29	80.20	-66.40
3	1770.00	13.50	30.00	-16.50	3.10 H	66	79.80	-66.30
Antenna Polarity & Test Distance: Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1720.00	16.60	30.00	-13.40	2.11 V	133	83.10	-66.50
2	1745.00	17.00	30.00	-13.00	1.99 V	150	83.40	-66.40
3	1770.00	16.70	30.00	-13.30	1.95 V	139	83.00	-66.30

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

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

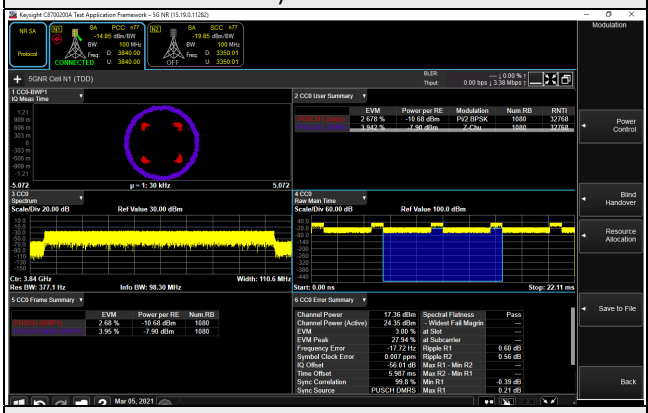
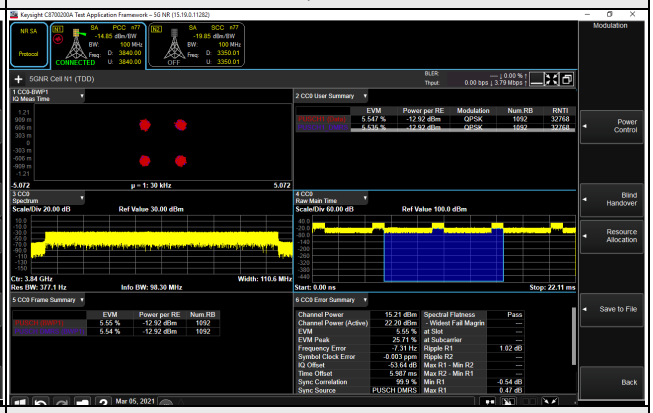
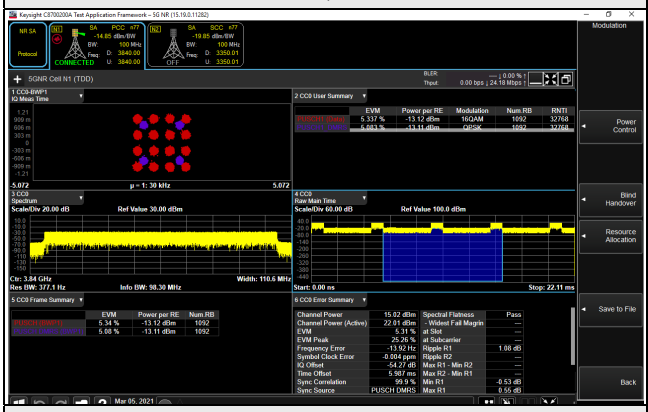
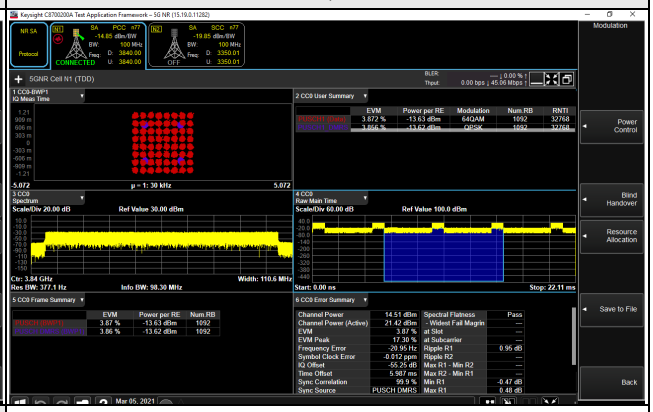
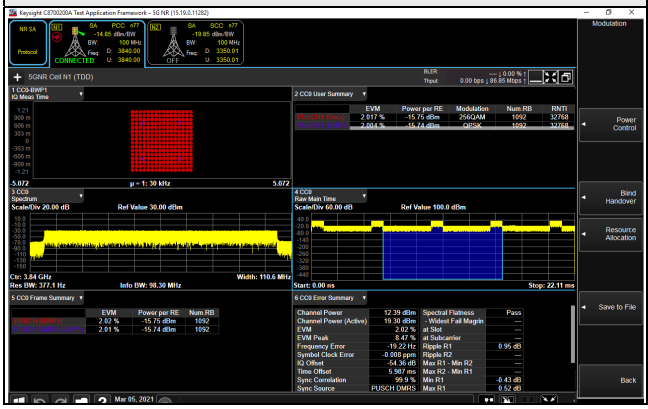
N/A

4.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.3 Test Setup

4.2.4 Test Results

n77	
Spectrum Plot of Measurement Value	
Channel: 656000 / Frequency (MHz): 3840.00MHz	
$\pi/2$ BPSK	QPSK
	
16QAM	64QAM
	
256QAM	
	

4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.3.2 Test Procedure

a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5 ℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

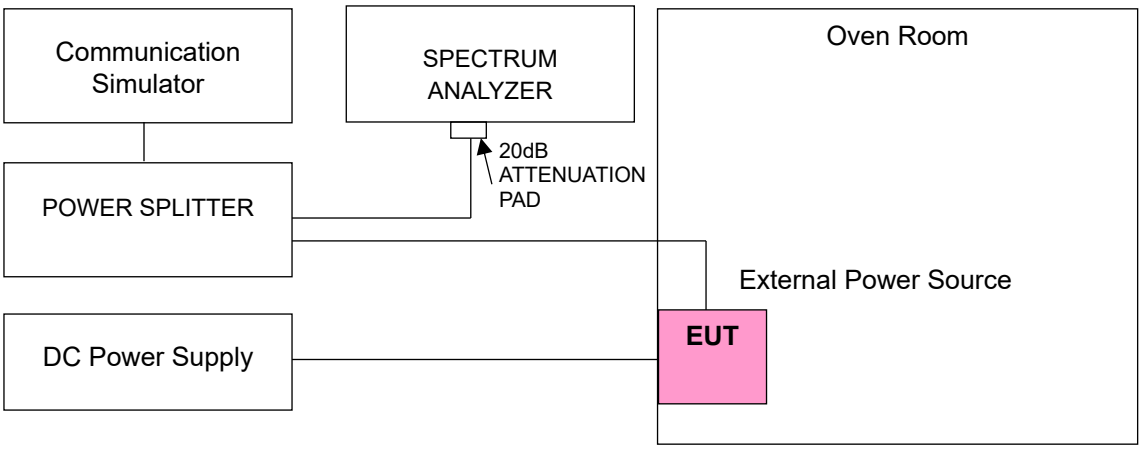
Note: The frequency error was recorded frequency error from the communication simulator.

4.3.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
5G Wireless Test Platforms Keysight	E7515B	MY60102114	May 28, 2020	May 27, 2021
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	Dec. 24, 2020	Dec. 23, 2021
Digital Multimeter Fluke	87-III	70360742	Jun. 23, 2020	Jun. 22, 2021
DC Power Supply Topward	6306A	727263	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.4 Test Setup



4.3.5 Test Results

Frequency Error vs. Voltage

Voltage (Vdc)	n77			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	3710.010004	0.001	3969.990000	0.001
3.40	3710.010003	0.001	3969.990000	0.000
4.40	3710.010003	0.001	3969.990000	0.001

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	n77			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3710.010002	0.000	3969.990000	0.001
-20	3710.010004	0.001	3969.990000	0.001
-10	3710.010003	0.001	3969.990000	0.000
0	3710.010003	0.001	3969.990000	0.000
10	3710.010001	0.000	3969.990000	0.001
20	3710.009997	-0.001	3969.990000	-0.001
30	3710.009998	-0.001	3969.990000	-0.001
40	3710.009998	-0.001	3969.990000	-0.001
50	3710.009996	-0.001	3969.990000	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n77			
	Channel Bandwidth 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	3720.000004	0.001	3960.000002	0.001
3.40	3720.000002	0.001	3960.000004	0.001
4.40	3720.000003	0.001	3960.000004	0.001

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	n77			
	Channel Bandwidth 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3720.000001	0.000	3960.000002	0.001
-20	3720.000004	0.001	3960.000001	0.000
-10	3720.000001	0.000	3960.000002	0.000
0	3720.000001	0.000	3960.000004	0.001
10	3720.000002	0.001	3960.000002	0.000
20	3719.999999	0.000	3959.999998	-0.001
30	3719.999999	0.000	3959.999998	0.000
40	3719.999997	-0.001	3959.999997	-0.001
50	3719.999997	-0.001	3959.999997	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n77			
	Channel Bandwidth 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	3725.010003	0.001	3954.990002	0.000
3.40	3725.010003	0.001	3954.990002	0.000
4.40	3725.010003	0.001	3954.990004	0.001

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	n77			
	Channel Bandwidth 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3725.010001	0.000	3954.990002	0.000
-20	3725.010002	0.001	3954.990004	0.001
-10	3725.010004	0.001	3954.990003	0.001
0	3725.010003	0.001	3954.990003	0.001
10	3725.010003	0.001	3954.990003	0.001
20	3725.009997	-0.001	3954.989998	-0.001
30	3725.009999	0.000	3954.989997	-0.001
40	3725.009998	0.000	3954.989998	-0.001
50	3725.009997	-0.001	3954.989998	0.000

Frequency Error vs. Voltage

Voltage (Vdc)	n77			
	Channel Bandwidth 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	3730.020003	0.001	3949.980001	0.000
3.40	3730.020003	0.001	3949.980004	0.001
4.40	3730.020001	0.000	3949.980003	0.001

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	n77			
	Channel Bandwidth 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3730.020003	0.001	3949.980001	0.000
-20	3730.020002	0.001	3949.980003	0.001
-10	3730.020004	0.001	3949.980004	0.001
0	3730.020002	0.001	3949.980001	0.000
10	3730.020002	0.000	3949.980001	0.000
20	3730.019999	0.000	3949.979999	0.000
30	3730.019998	-0.001	3949.979997	-0.001
40	3730.019999	0.000	3949.979996	-0.001
50	3730.019999	0.000	3949.979996	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n77			
	Channel Bandwidth 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	3740.010003	0.001	3939.990003	0.001
3.40	3740.010003	0.001	3939.990004	0.001
4.40	3740.010002	0.000	3939.990001	0.000

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	n77			
	Channel Bandwidth 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3740.010002	0.000	3939.990004	0.001
-20	3740.010004	0.001	3939.990004	0.001
-10	3740.010002	0.001	3939.990002	0.000
0	3740.010003	0.001	3939.990003	0.001
10	3740.010002	0.001	3939.990001	0.000
20	3740.009997	-0.001	3939.989999	0.000
30	3740.009998	-0.001	3939.989996	-0.001
40	3740.009999	0.000	3939.989997	-0.001
50	3740.009998	-0.001	3939.989998	0.000

Frequency Error vs. Voltage

Voltage (Vdc)	n77			
	Channel Bandwidth 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	3745.020004	0.001	3934.980003	0.001
3.40	3745.020002	0.001	3934.980003	0.001
4.40	3745.020003	0.001	3934.980004	0.001

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

Temp. (℃)	n77			
	Channel Bandwidth 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3745.020002	0.001	3934.980003	0.000
-20	3745.020002	0.001	3934.980003	0.001
-10	3745.020004	0.001	3934.980001	0.000
0	3745.020004	0.001	3934.980001	0.000
10	3745.020002	0.001	3934.980003	0.001
20	3745.019999	0.000	3934.979996	-0.001
30	3745.019997	-0.001	3934.979997	-0.001
40	3745.019998	0.000	3934.979997	-0.001
50	3745.019996	-0.001	3934.979999	0.000

Frequency Error vs. Voltage

Voltage (Vdc)	n77			
	Channel Bandwidth 100 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.85	3750.000004	0.001	3930.000003	0.001
3.40	3750.000004	0.001	3930.000002	0.001
4.40	3750.000002	0.001	3930.000002	0.000

Note: The applicant defined the normal working voltage is from 3.40Vdc to 4.40Vdc.

Frequency Error vs. Temperature

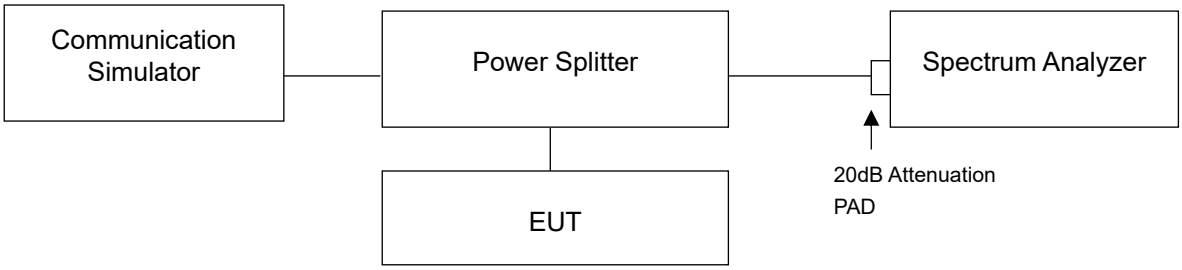
Temp. (℃)	n77			
	Channel Bandwidth 100 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3750.000004	0.001	3930.000002	0.001
-20	3750.000004	0.001	3930.000002	0.000
-10	3750.000002	0.001	3930.000003	0.001
0	3750.000002	0.001	3930.000002	0.001
10	3750.000002	0.001	3930.000004	0.001
20	3749.999998	-0.001	3929.999996	-0.001
30	3749.999996	-0.001	3929.999999	0.000
40	3749.999999	0.000	3929.999998	-0.001
50	3749.999997	-0.001	3929.999998	0.000

4.4 Occupied Bandwidth Measurement

4.4.1 Test Procedure

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 % of the total mean power radiated by a given emission.

4.4.2 Test Setup



4.4.3 Test Result

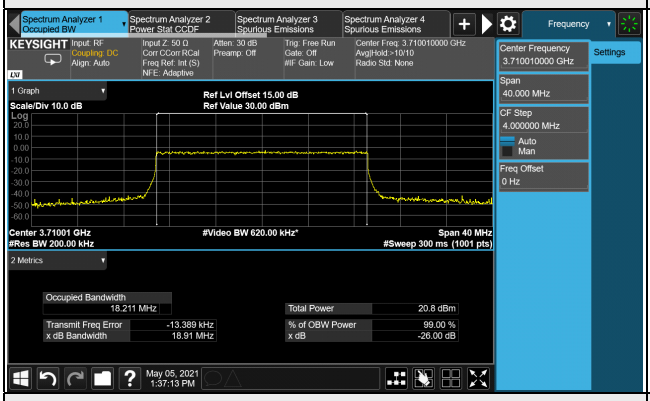
Occupied Bandwidth

n77, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	17.82	18.18	18.18	18.21	18.20
656000	3840.00	17.82	18.16	18.19	18.20	18.20
664666	3969.99	17.79	18.17	18.17	18.21	18.16
n77, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	35.67	37.81	37.80	37.80	37.81
656000	3840.00	35.65	37.80	37.78	37.80	37.81
664000	3960.00	35.68	37.80	37.81	37.80	37.81
n77, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	45.70	47.45	47.45	47.48	47.46
656000	3840.00	45.69	47.42	47.42	47.45	47.45
663666	3954.99	45.70	47.43	47.41	47.44	47.43
n77, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	57.77	57.80	57.81	57.78	57.83
656000	3840.00	57.78	57.78	57.79	57.76	57.80
663332	3949.98	57.78	57.79	57.79	57.78	57.80

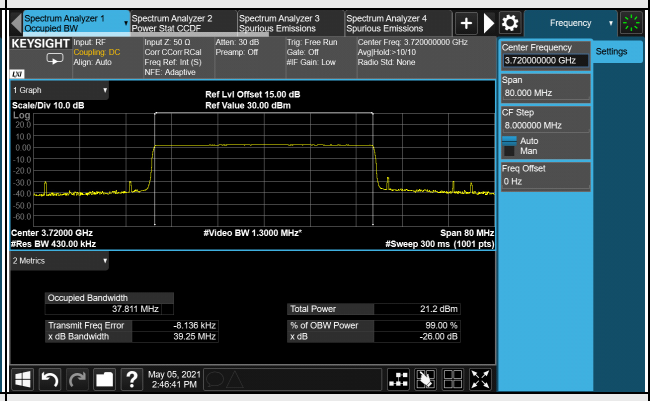
n77, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	76.99	77.38	77.44	77.35	77.41
656000	3840.00	76.98	77.40	77.41	77.36	77.39
662666	3939.99	77.02	77.39	77.41	77.36	77.41
n77, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649558	3745.02	86.58	87.28	87.36	87.29	87.28
656000	3840.00	86.63	87.35	87.33	87.31	87.29
662332	3934.98	86.63	87.34	87.33	87.31	87.28
n77, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	96.21	97.33	97.29	97.24	97.30
656000	3840.00	96.26	97.37	97.38	97.37	97.35
662000	3930.00	96.28	96.28	96.30	96.27	96.27

Spectrum Plot of Worst Value

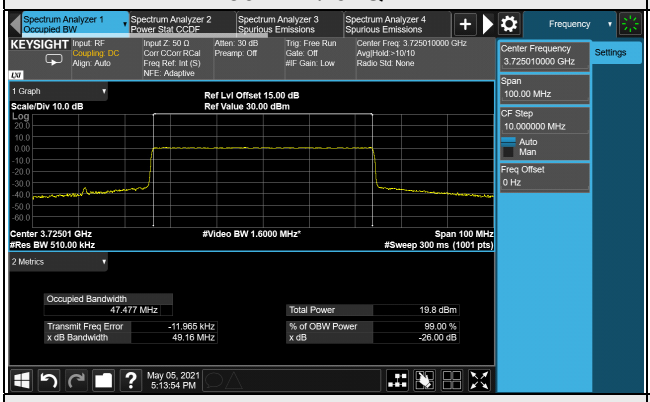
20MHz / 64QAM



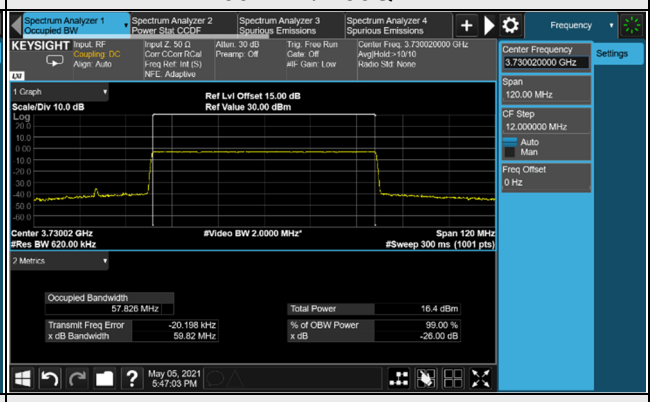
40MHz / QPSK



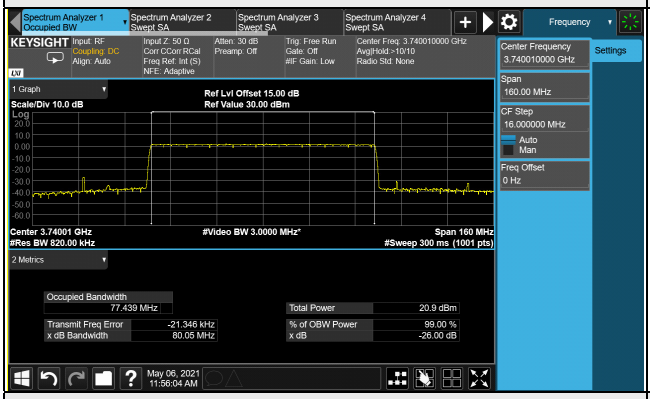
50MHz / 64QAM



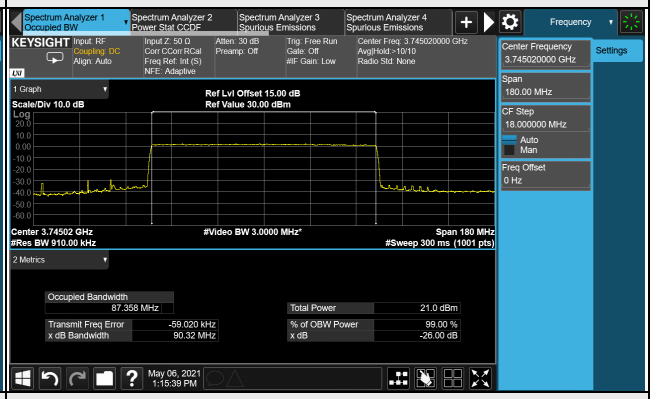
60MHz / 256QAM



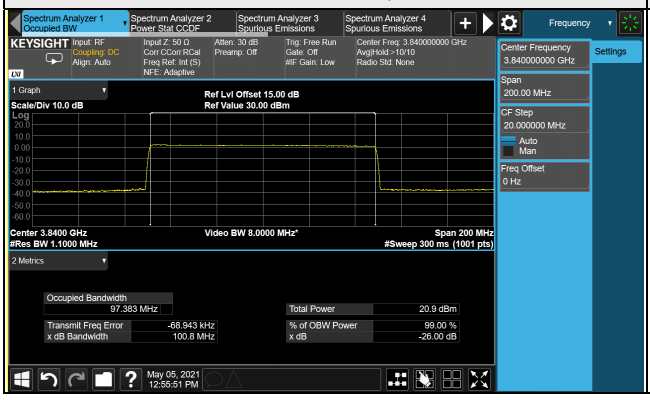
80MHz / 16QAM



90MHz / 16QAM



100MHz / 16QAM



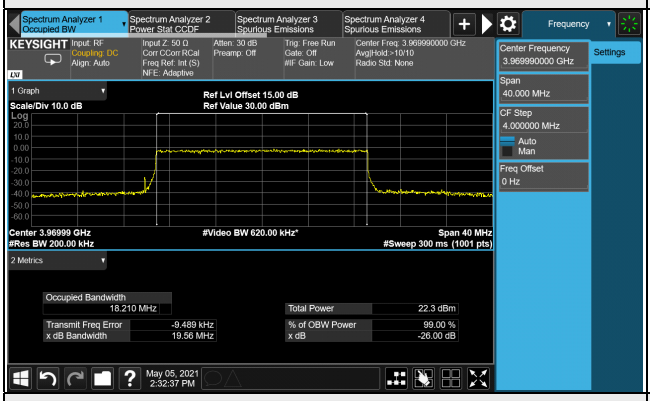
26dB Bandwidth

n77, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	18.34	18.93	18.96	18.91	18.85
656000	3840.00	18.37	18.90	18.80	18.86	18.83
664666	3969.99	18.42	18.81	18.88	19.56	18.88
n77, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	37.03	39.25	39.24	39.24	39.20
656000	3840.00	37.06	39.22	39.22	39.18	39.19
664000	3960.00	37.05	39.24	39.24	39.20	39.20
n77, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	47.35	49.15	49.15	49.16	49.13
656000	3840.00	47.35	49.13	49.10	49.14	49.14
663666	3954.99	47.33	49.15	49.13	49.12	48.96
n77, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	58.93	59.84	59.85	59.82	59.82
656000	3840.00	59.82	59.79	59.78	59.79	59.66
663332	3949.98	59.80	59.82	59.80	59.80	59.79
n77, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	79.91	80.08	80.05	80.06	80.08
656000	3840.00	79.68	80.06	80.05	80.04	80.06
662666	3939.99	79.69	80.10	80.06	80.06	80.05

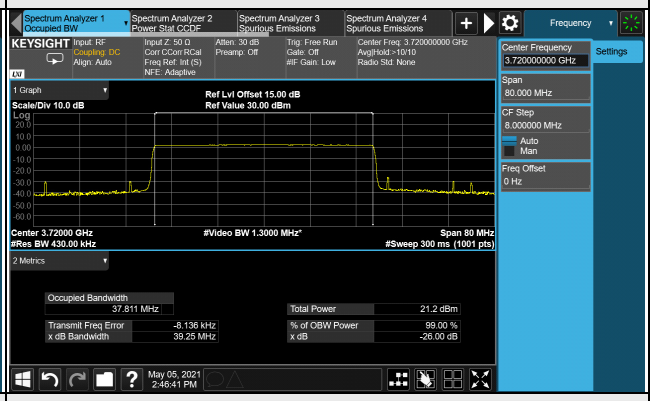
n77, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649558	3745.02	89.61	90.32	90.32	90.33	90.32
656000	3840.00	89.61	90.33	90.34	90.32	90.33
662332	3934.98	89.60	90.34	90.31	90.32	90.33
n77, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	99.77	100.80	100.80	100.80	100.80
656000	3840.00	99.80	100.80	100.80	100.80	100.80
662000	3930.00	99.76	99.79	99.78	99.77	99.76

Spectrum Plot of Worst Value

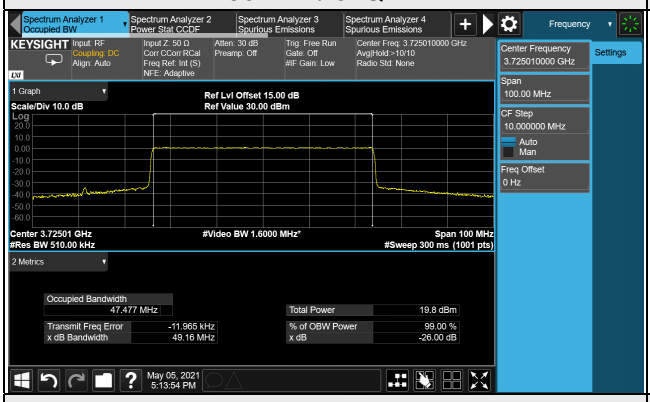
20MHz / 64QAM



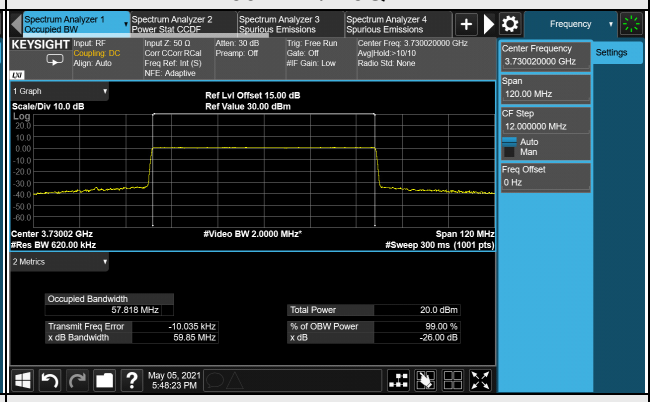
40MHz / QPSK



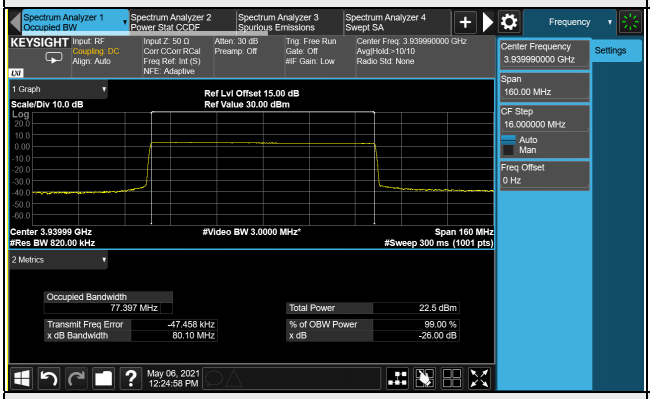
50MHz / 64QAM



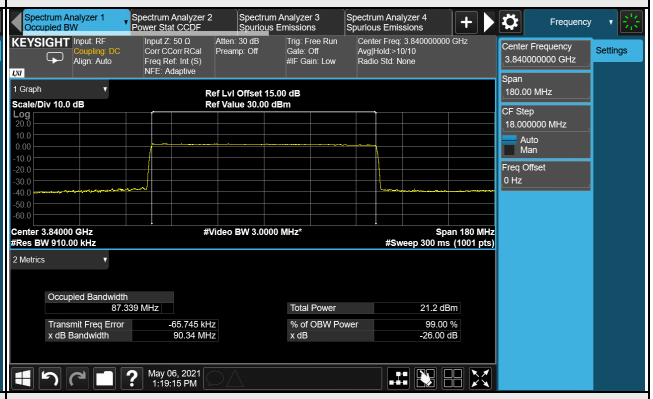
60MHz / 16QAM



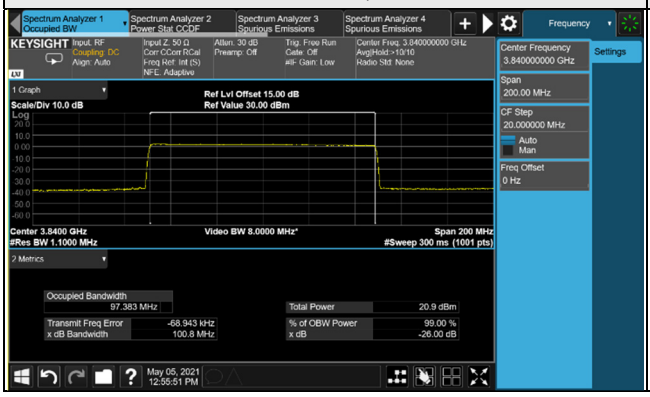
80MHz / QPSK



90MHz / 16QAM



100MHz / QPSK

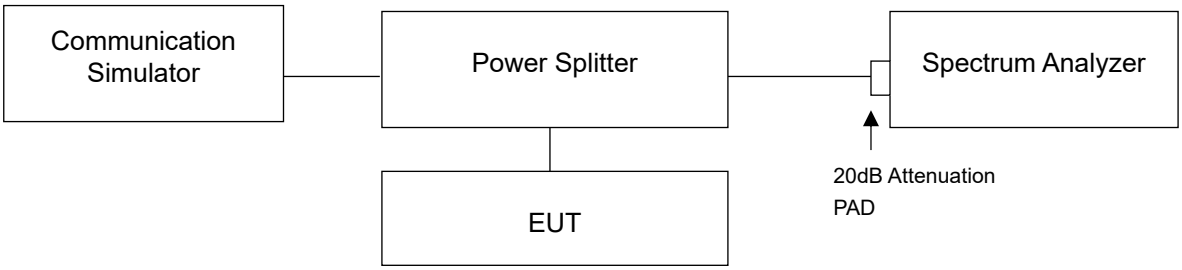


4.5 Band Edge Measurement

4.5.1 Limits of Band Edge Measurement

According to FCC 27.53(l) for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

4.5.2 Test Setup

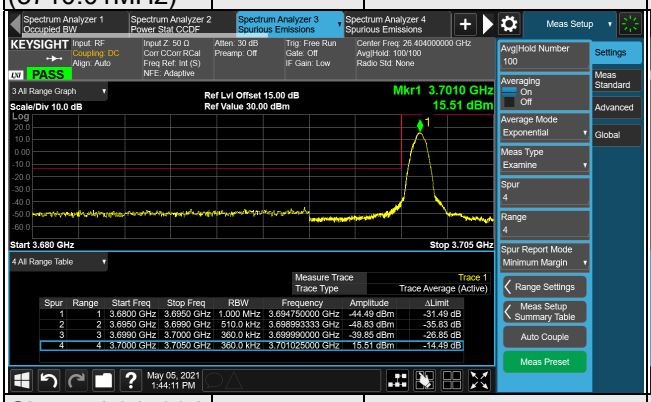
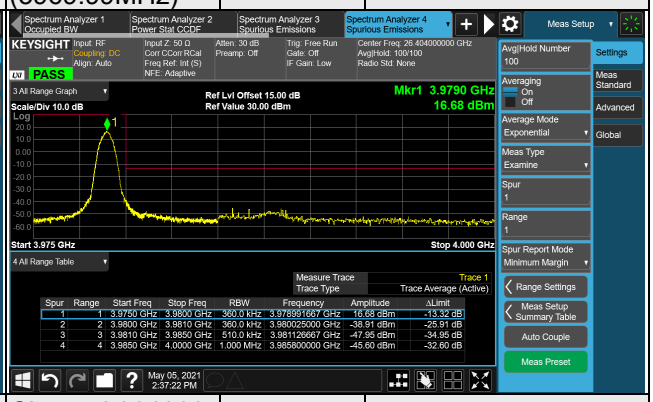
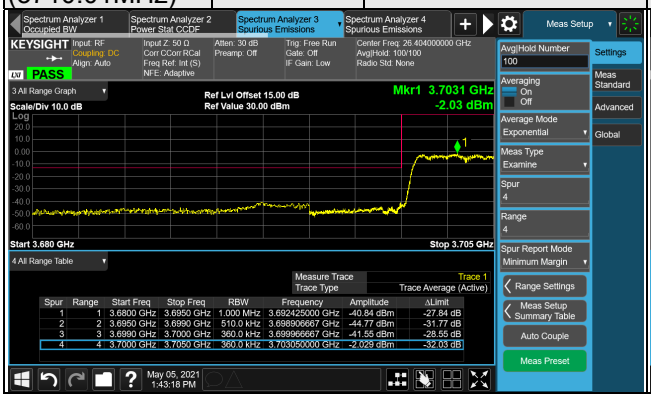
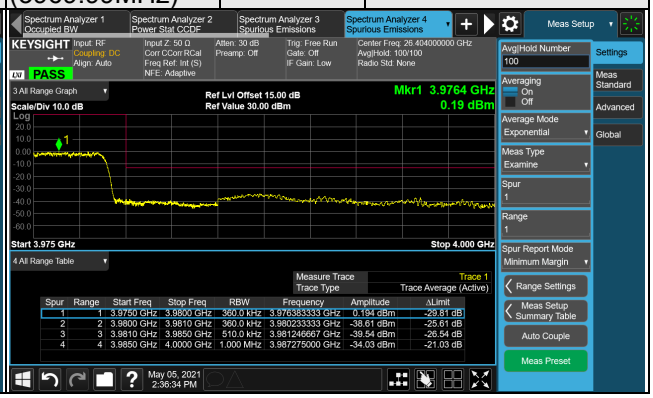


4.5.3 Test Procedures

a. The testing follows ANSI C63.26 section 5.7
b. The EUT was connected to spectrum analyzer and system simulator via a power divider.
c. The band edges of low and high channels for the highest RF powers were measured.
d. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
e. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
f. Set spectrum analyzer with RMS detector.
g. Checked that all the results comply with the emission limit line.

4.5.4 Test Results

Out-of-Band Emission

n77, Channel Bandwidth 20MHz					
Channel 647334 (3710.01MHz)	QPSK	1 RB / 0 RB Offset	Channel 664666 (3969.99MHz)	QPSK	1 RB / 49 RB Offset
					
Channel 647334 (3710.01MHz)	QPSK	51 RB / 0 RB Offset	Channel 664666 (3969.99MHz)	QPSK	51 RB / 0 RB Offset