

FCC Test Report

(Part 27 – WCDMA B4, LTE B4/B7/B12/B13/B17/B30/B38/B40/B41/B66/B71)

Report No.: RFBFLF-WTW-P21010278-11

FCC ID: MSQI007D

Test Model: ASUS_I007D

Received Date: Jan. 04, 2021

Test Date: Jan. 04 ~ Apr. 01, 2021

Issued Date: Apr. 01, 2021

Applicant: ASUSTeK COMPUTER INC.

Address: 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

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

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

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

**FCC Registration /
Designation Number:** 788550 / TW0003



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 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.....	6
2.2 Test Site and Instruments.....	7
3 General Information	9
3.1 General Description of EUT.....	9
3.2 Configuration of System under Test.....	18
3.2.1 Description of Support Units.....	18
3.3 Test Mode Applicability and Tested Channel Detail.....	19
3.4 EUT Operating Conditions.....	49
3.5 General Description of Applied Standards and References.....	49
4 Test Types and Results	50
4.1 Output Power Measurement.....	50
4.1.1 Limits of Output Power Measurement.....	50
4.1.2 Test Procedures.....	50
4.1.3 Test Setup.....	51
4.1.4 Test Results.....	52
4.2 Modulation Characteristics Measurement.....	146
4.2.1 Limits of Modulation Characteristics.....	146
4.2.2 Test Procedure.....	146
4.2.3 Test Setup.....	146
4.2.4 Test Results.....	147
4.3 Frequency Stability Measurement.....	160
4.3.1 Limits of Frequency Stability Measurement.....	160
4.3.2 Test Procedure.....	160
4.3.3 Test Instruments.....	160
4.3.4 Test Setup.....	160
4.3.5 Test Results.....	161
4.4 Occupied Bandwidth Measurement.....	204
4.4.1 Limits of Occupied Bandwidth Measurement.....	204
4.4.2 Test Procedure.....	204
4.4.3 Test Setup.....	204
4.4.4 Test Result.....	205
4.5 Channel Edge / Out-of-Band Emissions Measurement.....	249
4.5.1 Limits of Band Edge / Out-of-Band Emissions Measurement.....	249
4.5.2 Test Setup.....	250
4.5.3 Test Procedures.....	251
4.5.4 Test Results.....	252
4.6 Peak to Average Ratio.....	297
4.6.1 Limits of Peak to Average Ratio Measurement.....	297
4.6.2 Test Setup.....	297
4.6.3 Test Procedures.....	297
4.6.4 Test Results.....	298
4.7 Conducted Spurious Emissions.....	317
4.7.1 Limits of Conducted Spurious Emissions Measurement.....	317
4.7.2 Test Setup.....	317
4.7.3 Test Procedure.....	318
4.7.4 Test Results.....	319
4.8 Radiated Emission Measurement.....	402
4.8.1 Limits of Radiated Emission Measurement.....	402
4.8.2 Test Procedure.....	403
4.8.3 Deviation from Test Standard.....	403

4.8.4 Test Setup.....	404
4.8.5 Test Results	405
5 Pictures of Test Arrangements.....	483
Appendix – Information of the Testing Laboratories	484

Release Control Record

Issue No.	Description	Date Issued
RFBFLF-WTW-P21010278-11	Original release	Apr. 01, 2021

1 Certificate of Conformity

Product: EXP21 Smartphone

Brand: ASUS

Test Model: ASUS_I007D

Sample Status: Engineering sample

Applicant: ASUSTeK COMPUTER INC.

Test Date: Jan. 04 ~ Apr. 01, 2021

Standards: FCC Part 27, Subpart C, D, F, H, L, M, N

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

Prepared by : Celine Chou , **Date:** Apr. 01, 2021
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Apr. 01, 2021
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2									
FCC Clause							Test Item	Result	Remarks
WCDMA B4 / LTE B4	LTE B12 / LTE B71	LTE B13	LTE B17	LTE B7 / LTE B38 / LTE B41	LTE B30 / LTE B40	LTE B66			
2.1046 27.50 (d)(4)	2.1046 27.50 (c)	2.1046 27.50 (b)	2.1046 27.50 (c)	2.1046 27.50 (h)(2)	2.1046 27.50 (a)(3)	2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power / Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	2.1047	2.1047	2.1047	2.1047	2.1047	2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
27.50 (d)(5)	----	----	----	----	----	27.50 (d)(5)	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.
2.1049	2.1049	2.1049	2.1049	2.1049	2.1049	2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53 (h)	2.1051 27.53 (g)	2.1051 27.53 (c)	2.1051 27.53 (g)	2.1051 27.53 (m)(4)(6)	2.1051 27.53 (a)(4)	2.1051 27.53 (h)	Band Edge / Out of Band Emissions Measurements	Pass	Meet the requirement of limit.
2.1051 27.53 (h)	2.1051 27.53 (g)	2.1051 27.53 (c)(f)	2.1051 27.53 (g)	2.1051 27.53 (m)(4)(6)	2.1051 27.53 (a)(4)	2.1051 27.53 (h)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53 (h)	2.1053 27.53 (g)	2.1053 27.53 (c)(f)	2.1053 27.53 (g)	2.1053 27.53 (m)(4)(6)	2.1053 27.53 (a)(4)	2.1053 27.53 (h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -3.23dB at 4710.00MHz.

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 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. 16, 2020	Apr. 15, 2021
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
Radio Communication Analyzer Anritsu	MT8821C	6261806803	Jan. 18, 2020	Jan. 17, 2021
			Jan. 22, 2021	Jan. 21, 2022
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. 18, 2020	Feb. 17, 2021
			Feb. 17, 2021	Feb. 16, 2022
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM80 00	CABLE-CH9-02 (248780+171006)	Jan. 18, 2020	Jan. 17, 2021
			Jan. 16, 2021	Jan. 15, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 18, 2020	Jan. 17, 2021
			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-A R	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	EXP21 Smartphone
Brand	ASUS
Test Model	ASUS_I007D
Sample Status	Engineering sample
Power Supply Rating	7.74 Vdc (Battery) 5 Vdc / 9 Vdc / 12 Vdc / 15Vdc / 20Vdc (Adapter)
Modulation Type	WCDMA: BPSK, QPSK HSDPA: BPSK HSUPA: QPSK LTE: QPSK, 16QAM, 64QAM, 256QAM

Operating Frequency	WCDMA Band 4	1712.4MHz ~ 1752.6MHz
	LTE Band 4 (Channel Bandwidth 1.4MHz)	1710.7MHz ~ 1754.3MHz
	LTE Band 4 (Channel Bandwidth 3MHz)	1711.5MHz ~ 1753.5MHz
	LTE Band 4 (Channel Bandwidth 5MHz)	1712.5MHz ~ 1752.5MHz
	LTE Band 4 (Channel Bandwidth 10MHz)	1715.0MHz ~ 1750.0MHz
	LTE Band 4 (Channel Bandwidth 15MHz)	1717.5MHz ~ 1747.5MHz
	LTE Band 4 (Channel Bandwidth 20MHz)	1720.0MHz ~ 1745.0MHz
	LTE Band 7 (Channel Bandwidth 5MHz)	2502.5MHz ~ 2567.5MHz
	LTE Band 7 (Channel Bandwidth 10MHz)	2505.0MHz ~ 2565.0MHz
	LTE Band 7 (Channel Bandwidth 15MHz)	2507.5MHz ~ 2562.5MHz
	LTE Band 7 (Channel Bandwidth 20MHz)	2510.0MHz ~ 2560.0MHz
	LTE Band 12 (Channel Bandwidth 1.4MHz)	699.7MHz ~ 715.3MHz
	LTE Band 12 (Channel Bandwidth 3MHz)	700.5MHz ~ 714.5MHz
	LTE Band 12 (Channel Bandwidth 5MHz)	701.5MHz ~ 713.5MHz
	LTE Band 12 (Channel Bandwidth 10MHz)	704.0MHz ~ 711.0MHz
	LTE Band 13 (Channel Bandwidth 5MHz)	779.5MHz ~ 784.5MHz
	LTE Band 13 (Channel Bandwidth 10MHz)	782.0MHz
	LTE Band 17 (Channel Bandwidth 5MHz)	706.5MHz ~ 713.5MHz
	LTE Band 17 (Channel Bandwidth 10MHz)	709.0MHz ~ 711.0MHz
	LTE Band 30 (Channel Bandwidth 5MHz)	2307.5MHz ~ 2312.5MHz
	LTE Band 30 (Channel Bandwidth 10MHz)	2310.0MHz
	LTE Band 38 (Channel Bandwidth 5MHz)	2572.5MHz ~ 2617.5MHz
	LTE Band 38 (Channel Bandwidth 10MHz)	2575.0MHz ~ 2615.0MHz
	LTE Band 38 (Channel Bandwidth 15MHz)	2577.5MHz ~ 2612.5MHz
	LTE Band 38 (Channel Bandwidth 20MHz)	2580.0MHz ~ 2610.0MHz
	LTE Band 40 (Channel Bandwidth 5MHz)	2307.5MHz ~ 2312.5MHz 2352.5MHz ~ 2357.5MHz
	LTE Band 40 (Channel Bandwidth 10MHz)	2310MHz 2355MHz
	LTE Band 41 (Channel Bandwidth 5MHz)	2498.5MHz ~ 2687.5MHz
	LTE Band 41 (Channel Bandwidth 10MHz)	2501.0MHz ~ 2685.0 MHz
	LTE Band 41 (Channel Bandwidth 15MHz)	2503.5MHz ~ 2682.5MHz
	LTE Band 41 (Channel Bandwidth 20MHz)	2506.0MHz ~ 2680.0 MHz
	LTE Band 66 (Channel Bandwidth 1.4MHz)	1710.7MHz ~ 1779.3MHz
	LTE Band 66 (Channel Bandwidth 3MHz)	1711.5MHz ~ 1778.5MHz
	LTE Band 66 (Channel Bandwidth 5MHz)	1712.5MHz ~ 1777.5MHz
LTE Band 66 (Channel Bandwidth 10MHz)	1715.0MHz ~ 1775.0MHz	
LTE Band 66 (Channel Bandwidth 15MHz)	1717.5MHz ~ 1772.5MHz	
LTE Band 66 (Channel Bandwidth 20MHz)	1720.0MHz ~ 1770.0MHz	
LTE Band 71 (Channel Bandwidth 5MHz)	665.5MHz ~ 695.5MHz	
LTE Band 71 (Channel Bandwidth 10MHz)	668.0MHz ~ 693.0MHz	
LTE Band 71 (Channel Bandwidth 15MHz)	670.5MHz ~ 690.5MHz	
LTE Band 71 (Channel Bandwidth 20MHz)	673.0MHz ~ 688.0MHz	

Max. EIRP Power	WCDMA Band 4	102.329mW (20.10dBm)			
		QPSK	16QAM	64QAM	256QAM
	LTE Band 4 (Channel Bandwidth 1.4MHz)	167.109mW (22.23dBm)	131.522mW (21.19dBm)	104.713mW (20.20dBm)	49.091mW (16.91dBm)
	LTE Band 4 (Channel Bandwidth 3MHz)	165.577mW (22.19dBm)	131.522mW (21.19dBm)	104.713mW (20.20dBm)	48.865mW (16.89dBm)
	LTE Band 4 (Channel Bandwidth 5MHz)	166.341mW (22.21dBm)	131.826mW (21.20dBm)	103.992mW (20.17dBm)	47.753mW (16.79dBm)
	LTE Band 4 (Channel Bandwidth 10MHz)	166.341mW (22.21dBm)	130.017mW (21.14dBm)	103.276mW (20.14dBm)	49.204mW (16.92dBm)
	LTE Band 4 (Channel Bandwidth 15MHz)	167.494mW (22.24dBm)	133.352mW (21.25dBm)	105.196mW (20.22dBm)	50.466mW (17.03dBm)
	LTE Band 4 (Channel Bandwidth 20MHz)	169.044mW (22.28dBm)	133.968mW (21.27dBm)	106.414mW (20.27dBm)	48.978mW (16.90dBm)
	LTE Band 7 (Channel Bandwidth 5MHz)	234.423mW (23.70dBm)	199.526mW (23.00dBm)	158.489mW (22.00dBm)	69.183mW (18.40dBm)
	LTE Band 7 (Channel Bandwidth 10MHz)	246.037mW (23.91dBm)	200.909mW (23.03dBm)	157.036mW (21.96dBm)	69.024mW (18.39dBm)
	LTE Band 7 (Channel Bandwidth 15MHz)	244.906mW (23.89dBm)	205.116mW (23.12dBm)	158.489mW (22.00dBm)	73.790mW (18.68dBm)
	LTE Band 7 (Channel Bandwidth 20MHz)	249.459mW (23.97dBm)	205.116mW (23.12dBm)	159.588mW (22.03dBm)	72.277mW (18.59dBm)
	LTE Band 30 (Channel Bandwidth 5MHz)	157.398mW (21.97dBm/5MHz)	126.474mW (21.02dBm/5MHz)	100.925mW (20.04dBm/5MHz)	47.206mW (16.74dBm/5MHz)
	LTE Band 30 (Channel Bandwidth 10MHz)	159.588mW (22.03dBm/5MHz)	127.350mW (21.05dBm/5MHz)	100.925mW (20.04dBm/5MHz)	45.290mW (16.56dBm/5MHz)
	LTE Band 38 (Channel Bandwidth 5MHz)	272.270mW (24.35dBm)	218.273mW (23.39dBm)	166.341mW (22.21dBm)	79.983mW (19.03dBm)
	LTE Band 38 (Channel Bandwidth 10MHz)	278.612mW (24.45dBm)	221.309mW (23.45dBm)	164.437mW (22.16dBm)	82.985mW (19.19dBm)
	LTE Band 38 (Channel Bandwidth 15MHz)	281.190mW (24.49dBm)	222.844mW (23.48dBm)	166.341mW (22.21dBm)	84.140mW (19.25dBm)
	LTE Band 38 (Channel Bandwidth 20MHz)	284.446mW (24.54dBm)	224.388mW (23.51dBm)	167.880mW (22.25dBm)	85.114mW (19.30dBm)
	LTE Band 40 (2305MHz ~ 2315MHz) (Channel Bandwidth 5MHz)	163.682mW (22.14dBm/5MHz)	133.968mW (21.27dBm/5MHz)	98.628mW (19.94dBm/5MHz)	48.529mW (16.86dBm/5MHz)
	LTE Band 40 (2305MHz ~ 2315MHz) (Channel Bandwidth 10MHz)	164.816mW (22.17dBm/5MHz)	164.816mW (22.17dBm/5MHz)	96.383mW (19.84dBm/5MHz)	44.875mW (16.52dBm/5MHz)
	LTE Band 40 (2350MHz ~ 2360MHz) (Channel Bandwidth 5MHz)	162.555mW (22.11dBm/5MHz)	130.918mW (21.17dBm/5MHz)	95.940mW (19.82dBm/5MHz)	46.132mW (16.64dBm/5MHz)
	LTE Band 40 (2350MHz ~ 2360MHz) (Channel Bandwidth 10MHz)	162.930mW (22.12dBm/5MHz)	129.420mW (21.12dBm/5MHz)	94.189mW (19.74dBm/5MHz)	43.752mW (16.41dBm/5MHz)

Max. EIRP Power		QPSK	16QAM	64QAM	256QAM
	LTE Band 41 (Channel Bandwidth 5MHz)	527.230mW (27.22dBm)	418.794mW (26.22dBm)	330.370mW (25.19dBm)	143.880mW (21.58dBm)
	LTE Band 41 (Channel Bandwidth 10MHz)	523.600mW (27.19dBm)	412.098mW (26.15dBm)	326.588mW (25.14dBm)	145.211mW (21.62dBm)
	LTE Band 41 (Channel Bandwidth 15MHz)	515.229mW (27.12dBm)	414.000mW (26.17dBm)	325.087mW (25.12dBm)	145.211mW (21.62dBm)
	LTE Band 41 (Channel Bandwidth 20MHz)	527.230mW (27.22dBm)	417.830mW (26.21dBm)	330.370mW (25.19dBm)	144.544mW (21.60dBm)
	LTE Band 66 (Channel Bandwidth 1.4MHz)	168.655mW (22.27dBm)	127.057mW (21.04dBm)	104.713mW (20.20dBm)	49.204mW (16.92dBm)
	LTE Band 66 (Channel Bandwidth 3MHz)	164.437mW (22.16dBm)	129.420mW (21.12dBm)	105.439mW (20.23dBm)	48.978mW (16.90dBm)
	LTE Band 66 (Channel Bandwidth 5MHz)	163.305mW (22.13dBm)	130.317mW (21.15dBm)	103.992mW (20.17dBm)	48.753mW (16.88dBm)
	LTE Band 66 (Channel Bandwidth 10MHz)	164.437mW (22.16dBm)	126.765mW (21.03dBm)	104.713mW (20.20dBm)	50.003mW (16.99dBm)
	LTE Band 66 (Channel Bandwidth 15MHz)	169.824mW (22.30dBm)	130.317mW (21.15dBm)	106.905mW (20.29dBm)	49.659mW (16.96dBm)
LTE Band 66 (Channel Bandwidth 20MHz)	170.216mW (22.31dBm)	130.617mW (21.16dBm)	107.152mW (20.30dBm)	50.933mW (17.07dBm)	

Max. ERP Power		QPSK	16QAM	64QAM	256QAM
	LTE Band 12 (Channel Bandwidth 1.4MHz)	113.240mW (20.54dBm)	91.833mW (19.63dBm)	71.450mW (18.54dBm)	34.041mW (15.32dBm)
	LTE Band 12 (Channel Bandwidth 3MHz)	112.980mW (20.53dBm)	86.896mW (19.39dBm)	72.111mW (18.58dBm)	34.198mW (15.34dBm)
	LTE Band 12 (Channel Bandwidth 5MHz)	112.460mW (20.51dBm)	89.331mW (19.51dBm)	73.790mW (18.68dBm)	34.119mW (15.33dBm)
	LTE Band 12 (Channel Bandwidth 10MHz)	114.815mW (20.60dBm)	90.365mW (19.56dBm)	73.790mW (18.68dBm)	34.914mW (15.43dBm)
	LTE Band 13 (Channel Bandwidth 5MHz)	68.549mW (18.36dBm)	54.954mW (17.40dBm)	42.560mW (16.29dBm)	20.137mW (13.04dBm)
	LTE Band 13 (Channel Bandwidth 10MHz)	69.343mW (18.41dBm)	55.208mW (17.42dBm)	43.351mW (16.37dBm)	20.941mW (13.21dBm)
	LTE Band 17 (Channel Bandwidth 5MHz)	111.944mW (20.49dBm)	89.536mW (19.52dBm)	69.823mW (18.44dBm)	33.420mW (15.24dBm)
	LTE Band 17 (Channel Bandwidth 10MHz)	113.240mW (20.54dBm)	89.743mW (19.53dBm)	71.121mW (18.52dBm)	33.574mW (15.26dBm)
	LTE Band 71 (Channel Bandwidth 5MHz)	51.050mW (17.08dBm)	39.811mW (16.00dBm)	31.842mW (15.03dBm)	15.205mW (11.82dBm)
	LTE Band 71 (Channel Bandwidth 10MHz)	51.168mW (17.09dBm)	39.994mW (16.02dBm)	31.405mW (14.97dBm)	15.311mW (11.85dBm)
	LTE Band 71 (Channel Bandwidth 15MHz)	51.168mW (17.09dBm)	39.628mW (15.98dBm)	31.989mW (15.05dBm)	15.276mW (11.84dBm)
	LTE Band 71 (Channel Bandwidth 20MHz)	51.286mW (17.10dBm)	40.458mW (16.07dBm)	32.063mW (15.06dBm)	15.241mW (11.83dBm)

Emission Designator	WCDMA Band 4	4M15F9W			
		QPSK	16QAM	64QAM	256QAM
	LTE Band 4 (Channel Bandwidth 1.4MHz)	1M09G7D	1M09D7W	1M09D7W	1M09D7W
	LTE Band 4 (Channel Bandwidth 3MHz)	2M73G7D	2M73D7W	2M73D7W	2M70D7W
	LTE Band 4 (Channel Bandwidth 5MHz)	4M50G7D	4M55D7W	4M50D7W	4M49D7W
	LTE Band 4 (Channel Bandwidth 10MHz)	8M95G7D	8M97D7W	9M15D7W	8M96D7W
	LTE Band 4 (Channel Bandwidth 15MHz)	13M5G7D	13M5D7W	13M7D7W	13M5D7W
	LTE Band 4 (Channel Bandwidth 20MHz)	17M9G7D	18M0D7W	17M9D7W	18M0D7W
	LTE Band 7 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M50D7W	4M49D7W
	LTE Band 7 (Channel Bandwidth 10MHz)	8M96G7D	8M96D7W	8M97D7W	8M96D7W
	LTE Band 7 (Channel Bandwidth 15MHz)	13M5G7D	13M5D7W	13M5D7W	13M5D7W
	LTE Band 7 (Channel Bandwidth 20MHz)	18M0G7D	18M0D7W	18M0D7W	18M0D7W
	LTE Band 12 (Channel Bandwidth 1.4MHz)	1M09G7D	1M09D7W	1M09D7W	1M09D7W
	LTE Band 12 (Channel Bandwidth 3MHz)	2M70G7D	2M70D7W	2M70D7W	2M69D7W
	LTE Band 12 (Channel Bandwidth 5MHz)	4M48G7D	4M49D7W	4M50D7W	4M48D7W
	LTE Band 12 (Channel Bandwidth 10MHz)	8M96G7D	8M97D7W	8M97D7W	8M96D7W
	LTE Band 13 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M50D7W	4M49D7W
	LTE Band 13 (Channel Bandwidth 10MHz)	8M95G7D	8M95D7W	8M95D7W	8M93D7W
	LTE Band 17 (Channel Bandwidth 5MHz)	4M48G7D	4M49D7W	4M50D7W	4M49D7W
	LTE Band 17 (Channel Bandwidth 10MHz)	8M95G7D	8M96D7W	8M96D7W	8M97D7W
	LTE Band 30 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M50D7W	4M49D7W
	LTE Band 30 (Channel Bandwidth 10MHz)	8M96G7D	8M96D7W	8M96D7W	8M97D7W
	LTE Band 38 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M50D7W	4M48D7W
	LTE Band 38 (Channel Bandwidth 10MHz)	8M96G7D	8M97D7W	8M97D7W	8M96D7W
	LTE Band 38 (Channel Bandwidth 15MHz)	13M5G7D	13M5D7W	13M5D7W	13M4D7W
	LTE Band 38 (Channel Bandwidth 20MHz)	17M9G7D	17M9D7W	17M9D7W	17M9D7W
	LTE Band 40 (2305MHz ~ 2315MHz) (Channel Bandwidth 5MHz)	4M49G7D	4M48D7W	4M48D7W	4M47D7W
	LTE Band 40 (2305MHz ~ 2315MHz) (Channel Bandwidth 10MHz)	8M94G7D	8M93D7W	8M95D7W	8M94D7W
	LTE Band 40 (2350MHz ~ 2360MHz) (Channel Bandwidth 5MHz)	4M49G7D	4M48D7W	4M48D7W	4M47D7W
	LTE Band 40 (2350MHz ~ 2360MHz) (Channel Bandwidth 10MHz)	8M94G7D	8M95D7W	8M95D7W	8M94D7W
	LTE Band 41 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M50D7W	4M48D7W
	LTE Band 41 (Channel Bandwidth 10MHz)	8M96G7D	8M97D7W	8M97D7W	8M97D7W
	LTE Band 41 (Channel Bandwidth 15MHz)	13M5G7D	13M5D7W	13M5D7W	13M5D7W
	LTE Band 41 (Channel Bandwidth 20MHz)	17M9G7D	18M0D7W	18M0D7W	17M9D7W

Emission Designator		QPSK	16QAM	64QAM	256QAM
	LTE Band 66 (Channel Bandwidth 1.4MHz)	1M09G7D	1M09D7W	1M09D7W	1M09D7W
	LTE Band 66 (Channel Bandwidth 3MHz)	2M70G7D	2M70D7W	2M70D7W	2M70D7W
	LTE Band 66 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M50D7W	4M49D7W
	LTE Band 66 (Channel Bandwidth 10MHz)	8M96G7D	8M96D7W	8M97D7W	8M96D7W
	LTE Band 66 (Channel Bandwidth 15MHz)	13M5G7D	13M5D7W	13M5D7W	13M5D7W
	LTE Band 66 (Channel Bandwidth 20MHz)	18M0G7D	18M0D7W	18M0D7W	18M0D7W
	LTE Band 71 (Channel Bandwidth 5MHz)	4M49G7D	4M49D7W	4M50D7W	4M49D7W
	LTE Band 71 (Channel Bandwidth 10MHz)	8M97G7D	8M98D7W	8M97D7W	8M96D7W
	LTE Band 71 (Channel Bandwidth 15MHz)	13M5G7D	13M5D7W	13M4D7W	13M4D7W
LTE Band 71 (Channel Bandwidth 20MHz)	17M9G7D	17M9D7W	17M9D7W	17M9D7W	
Antenna Type	Refer to Note as below				
Antenna Connector	Refer to Note as below				
Accessory Device	Refer to Note as below				
Cable Supplied	Refer to Note as below				

Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Battery	SCUD	C21P2002	Rating: 7.74Vdc, 15.2Wh
Adapter	AOHAI	A320Q-200325C-US	I/P: 100-240Vac, 50/60Hz, 1.5A O/P: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 3A; 15Vdc, 3A; 20Vdc, 3.25A
Type A to Type C USB Cable	Luxshare	LA9U2026-CS-R	0.5m
Type C to Type C Cable	Luxshare	LA9UC006-CS-R	1.2m
Bluetooth Earphone	Bang & Olufsen	EQ Earbud R	FCC ID: TTUBEOPLAYEQR IC: 3775B-BEOPLAYEQR
		EQ Earbud L	FCC ID: TTUBEOPLAYEQL IC: 3775B-BEOPLAYEQL
Bluetooth Earphone Charging Case	Bang & Olufsen	EQ Charging case	I/P: 5Vdc/500mA O/P: 5Vdc/ R170mA; L170mA

2. The following antennas were provided to the EUT.

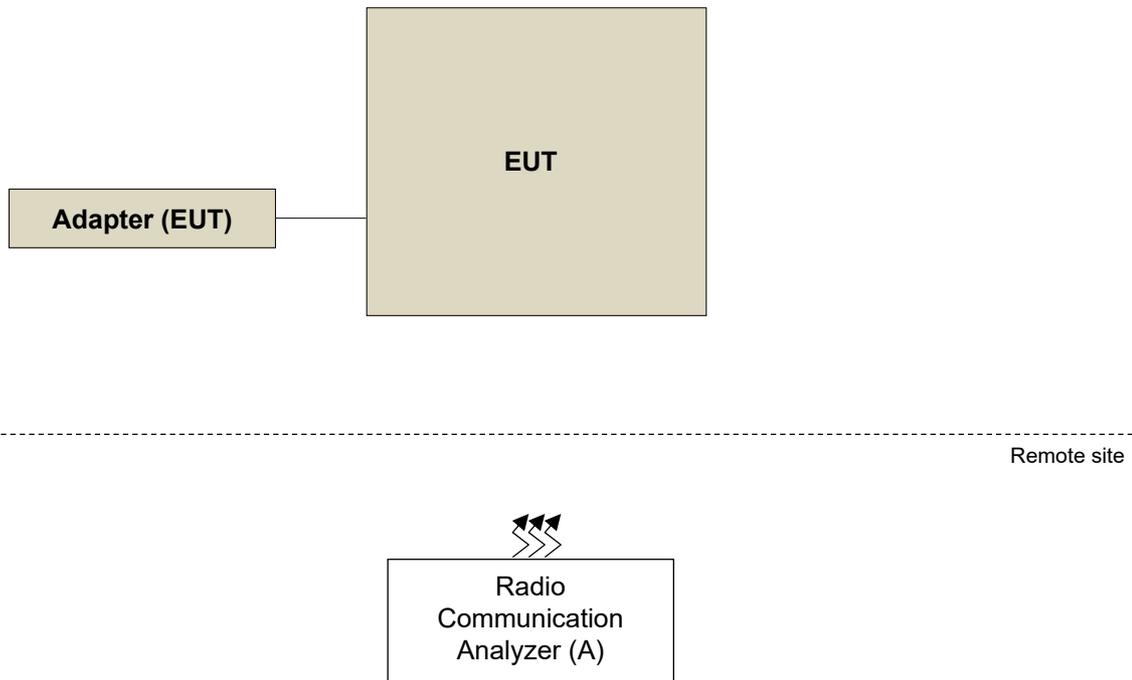
Ant. No.	Brand	Model	Ant. Type	Connector	Frequency Range
Ant 0	ASUS	ZS675KW	PIFA	LCP+IpeX	610-960MHz, 1710-2690MHz
Ant 1	ASUS	ZS675KW	PIFA	LCP+IpeX	1427-1510MHz, 1710-2690MHz
Ant 2	ASUS	ZS675KW	PIFA	LCP+IpeX	610-960MHz, 1427-1510MHz, 1710-2690MHz
Ant 3	INPAQ	ZS675KW	PIFA	IpeX	1575-1610MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 4	INPAQ	ZS675KW	PIFA	IpeX	1176±10MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 5	INPAQ	ZS675KW	PIFA	LCP+IpeX	3300-4000MHz, 4400-5000MHz
Ant 6	INPAQ	ZS675KW	PIFA	IpeX	1427-1510MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 7	INPAQ	ZS675KW	PIFA	LCP+IpeX	3300-4000MHz, 4400-5000MHz
Ant 8	ASUS	ZS675KW	PIFA	LCP+IpeX	1427-1510MHz, 1710-2690MHz
Ant 9	ASUS	ZS675KW	PIFA	LCP+IpeX	1710-2690MHz
Ant 10	INPAQ	ZS675KW	PIFA	IpeX	3300-4000MHz, 4400-5000MHz
Ant 11	INPAQ	ZS675KW	PIFA	IpeX	3300-4000MHz, 4400-5000MHz

2G / 3G Band													
Band	Freq. Range (MHz)	Gain (dBi)											
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 5	Ant. 6	Ant. 7	Ant. 8	Ant. 9	Ant. 10	Ant. 11
GSM-850	824 ~ 849	-1.891		-4.526									
GSM-1900	1850 ~ 1910		-1.887	-1.394						-2.89579			
WCDMA B2	1850 ~ 1910		-1.887	-1.394						-2.89579			
WCDMA B4	1710 ~ 1755		-2.884	-3.228						-3.13552			
WCDMA B5	824 ~ 849	-1.891		-4.526									
CDMA BC0	815 ~ 849	-1.891		-4.526									
CDMA BC1	1850 ~ 1910		-1.887	-1.394						-2.89579			
CDMA BC10	806 ~ 901	-1.891		-4.526									

LTE Band													
Band	Freq. Range (MHz)	Gain (dBi)											
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 5	Ant. 6	Ant. 7	Ant. 8	Ant. 9	Ant. 10	Ant. 11
LTE B2	1850 ~ 1910		-1.887	-1.394						-2.89579	-1.804		
LTE B4	1710 ~ 1755		-2.884	-3.228						-3.13552	-1.706		
LTE B5	824 ~ 849	-1.891		-4.526									
LTE B7	2500 ~ 2570		0.185	-0.657						-0.50837	-1.117		
LTE B12	698 ~ 716	-2.135		-4.343									
LTE B13	777 ~ 787	-4.37		-8.13									
LTE B14	788 ~ 798	-4.37		-7.931									
LTE B17	704 ~ 716	-2.135		-4.343									
LTE B25	1850 ~ 1915		-1.887	-1.394						-2.89579			
LTE B26	814 ~ 849	-1.891		-4.526									
LTE B30	2305 ~ 2315		-1.326	-2.669						-1.28433			
LTE B66	1710 ~ 1780		-2.884	-2.478						-3.0668	-1.685		
LTE B71	663 ~ 698	-5.741		-7.388									
T-LTE B38	2570 ~ 2620		0.724	-0.912						-0.59557			
T-LTE B40	2300 ~ 2400		-1.326	-2.669						-1.28433			
T-LTE B41	2496 ~ 2690		1.143	-0.657						-0.59557			
T-LTE B42	3400 ~ 3600						0.313		0.5277			-2.493	-0.35195
T-LTE B43	3600 ~ 3800						-0.434		0.5277			-0.477	-0.161
T-LTE B48	3550 ~ 3700						-0.434		0.5277			-0.477	-0.161
5G FR1 Band													
Band	Freq. Range (MHz)	Gain (dBi)											
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 5	Ant. 6	Ant. 7	Ant. 8	Ant. 9	Ant. 10	Ant. 11
n2	1850 ~ 1910		-1.887	-1.394						-2.89579	-1.804		
n5	824 ~ 849	-1.891		-4.526									
n7	2500 ~ 2570		0.185	-0.657						-0.50837	-1.117		
n12	699 ~ 716	-2.135		-4.343									
n13	777 ~ 787	-4.37		-8.13									
n14	788 ~ 798	-4.37		-7.931									
n25	1850 ~ 1915		-1.887	-1.394						-2.89579	-1.627		
n26	814 ~ 849	-1.891		-4.526									
n30	2305 ~ 2315		-1.326	-2.669						-1.28433			
n38	2570 ~ 2620		0.724	-0.912						-0.59557	-1.3		
n41	2496 ~ 2690		1.143	-0.657						-0.59557	-0.076		
n66	1710 ~ 1780		-2.884	-2.478						-3.0668	-1.685		
n71	663 ~ 698	-5.741		-7.388									
n77	3300 ~ 4200						0.313		0.5277			2.017	0.19902
n78	3300 ~ 3800						0.313		0.5277			2.017	-0.161

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Configuration of System under Test



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.	Radio Communication Analyzer	Anritsu	MT8821C	6261806803	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	Radiated Emission
WCDMA Band 4	Y-plane
LTE Band 4	Y-plane
LTE Band 7	Y-plane
LTE Band 12	Y-plane
LTE Band 13	Y-plane
LTE Band 17	Y-plane
LTE Band 30	Y-plane
LTE Band 38	Y-plane
LTE Band 40	Y-plane
LTE Band 41	Y-plane
LTE Band 66	Y-plane
LTE Band 71	Y-plane

WCDMA Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	1312 to 1513	1312 (1712.4MHz), 1413 (1732.6MHz), 1513 (1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Modulation Characteristics	1312 to 1513	1413 (1732.6MHz)	WCDMA, HSDPA, HSUPA
-	Frequency Stability	1312 to 1513	1312 (1712.4MHz), 1513 (1752.6MHz)	WCDMA
-	Occupied Bandwidth	1312 to 1513	1312 (1712.4MHz), 1413 (1732.6MHz), 1513 (1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Band Edge	1312 to 1513	1312 (1712.4MHz), 1513 (1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Peak To Average Ratio	1312 to 1513	1312 (1712.4MHz), 1413 (1732.6MHz), 1513 (1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Conducted Emission	1312 to 1513	1312 (1712.4MHz), 1413 (1732.6MHz), 1513 (1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Radiated Emission Below 1GHz	1312 to 1513	1413 (1732.6MHz)	WCDMA
-	Radiated Emission Above 1GHz	1312 to 1513	1312 (1712.4MHz), 1413 (1732.6MHz), 1513 (1752.6MHz)	WCDMA

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

LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	19957 to 20393	19957 (1710.7MHz), 20175 (1732.5MHz), 20393 (1754.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		19965 to 20385	19965 (1711.5MHz), 20175 (1732.5MHz), 20385 (1753.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20175 (1732.5MHz), 20375 (1752.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		20000 to 20350	20000 (1715.0MHz), 20175 (1732.5MHz), 20350 (1750.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		20025 to 20325	20025 (1717.5MHz), 20175 (1732.5MHz), 20325 (1747.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20175 (1732.5MHz), 20300 (1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Modulation Characteristics	20050 to 20300	20175 (1732.5MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Frequency Stability	19957 to 20393	19957 (1710.7MHz), 20393 (1754.3MHz)	1.4MHz	QPSK	6 RB / 0 RB Offset
		19965 to 20385	19965 (1711.5MHz), 20385 (1753.5MHz)	3MHz	QPSK	15 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20375 (1752.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		20000 to 20350	20000 (1715.0MHz), 20350 (1750.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		20025 to 20325	20025 (1717.5MHz), 20325 (1747.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20300 (1745.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset
-	Emission Bandwidth	19957 to 20393	19957 (1710.7MHz), 20175 (1732.5MHz), 20393 (1754.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	6 RB / 0RB Offset
		19965 to 20385	19965 (1711.5MHz), 20175 (1732.5MHz), 20385 (1753.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	15 RB / 0RB Offset
		19975 to 20375	19975 (1712.5MHz), 20175 (1732.5MHz), 20375 (1752.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25RB / 0RB Offset
		20000 to 20350	20000 (1715.0MHz), 20175 (1732.5MHz), 20350 (1750.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50RB / 0RB Offset
		20025 to 20325	20025 (1717.5MHz), 20175 (1732.5MHz), 20325 (1747.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	75 RB / 0 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20175 (1732.5MHz), 20300 (1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Band Edge	19957 to 20393	19957 (1710.7MHz), 20393 (1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
		19965 to 20385	19965 (1711.5MHz), 20385 (1753.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20375 (1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		20000 to 20350	20000 (1715.0MHz), 20350 (1750.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		20025 to 20325	20025 (1717.5MHz), 20325 (1747.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20300 (1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Peak To Average Ratio	19957 to 20393	19957 (1710.7MHz), 20175 (1732.5MHz), 20393 (1754.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	3 RB / 0 RB Offset
		19965 to 20385	19965 (1711.5MHz), 20175 (1732.5MHz), 20385 (1753.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20175 (1732.5MHz), 20375 (1752.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 24 RB Offset
		20000 to 20350	20000 (1715.0MHz), 20175 (1732.5MHz), 20350 (1750.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 24 RB Offset
		20025 to 20325	20025 (1717.5MHz), 20175 (1732.5MHz), 20325 (1747.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20175 (1732.5MHz), 20300 (1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	19957 to 20393	19957 (1710.7MHz), 20175 (1732.5MHz), 20393 (1754.3MHz)	1.4MHz	QPSK	3 RB / 0 RB Offset
		19965 to 20385	19965 (1711.5MHz), 20175 (1732.5MHz), 20385 (1753.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20175 (1732.5MHz), 20375 (1752.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
		20000 to 20350	20000 (1715.0MHz), 20175 (1732.5MHz), 20350 (1750.0MHz)	10MHz	QPSK	1 RB / 24 RB Offset
		20025 to 20325	20025 (1717.5MHz), 20175 (1732.5MHz), 20325 (1747.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20175 (1732.5MHz), 20300 (1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	20050 to 20300	20175 (1732.5MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	19957 to 20393	19957 (1710.7MHz), 20175 (1732.5MHz), 20393 (1754.3MHz)	1.4MHz	QPSK	3 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20175 (1732.5MHz), 20375 (1752.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20175 (1732.5MHz), 20300 (1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

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

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)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		20800 to 21400	20800 (2505.0MHz), 21100 (2535.0MHz), 21400 (2565.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		20825 to 21375	20825 (2507.5MHz), 21100 (2535.0MHz), 21375 (2562.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		20850 to 21350	20850 (2510.0MHz), 21100 (2535.0MHz), 21350 (2560.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Modulation Characteristics	20850 to 21350	21100 (2535.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Frequency Stability	20775 to 21425	20775 (2502.5MHz), 21425 (2567.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		20800 to 21400	20800 (2505.0MHz), 21400 (2565.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		20825 to 21375	20825 (2507.5MHz), 21375 (2562.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		20850 to 21350	20850 (2510.0MHz), 21350 (2560.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset
-	Emission Bandwidth	20775 to 21425	20775 (2502.5MHz), 21100 (2535.0MHz), 21425 (2567.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		20800 to 21400	20800 (2505.0MHz), 21100 (2535.0MHz), 21400 (2565.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
		20825 to 21375	20825 (2507.5MHz), 21100 (2535.0MHz), 21375 (2562.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	75 RB / 0 RB Offset
		20850 to 21350	20850 (2510.0MHz), 21100 (2535.0MHz), 21350 (2560.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Out-of-Band Emissions	20775 to 21425	20775 (2502.5MHz), 21425 (2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		20800 to 21400	20800 (2505.0MHz), 21400 (2565.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		20825 to 21375	20825 (2507.5MHz), 21375 (2562.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		20850 to 21350	20850 (2510.0MHz), 21350 (2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	20775 to 21425	20775 (2502.5MHz), 21100 (2535.0MHz), 21425 (2567.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		20800 to 21400	20800 (2505.0MHz), 21100 (2535.0MHz), 21400 (2565.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		20825 to 21375	20825 (2507.5MHz), 21100 (2535.0MHz), 21375 (2562.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		20850 to 21350	20850 (2510.0MHz), 21100 (2535.0MHz), 21350 (2560.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	20775 to 21425	20775 (2502.5MHz), 21100 (2535.0MHz), 21425 (2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20800 to 21400	20800 (2505.0MHz), 21100 (2535.0MHz), 21400 (2565.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		20825 to 21375	20825 (2507.5MHz), 21100 (2535.0MHz), 21375 (2562.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		20850 to 21350	20850 (2510.0MHz), 21100 (2535.0MHz), 21350 (2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	20850 to 21350	21100 (2535.0MHz)	20MHz	QPSK	1 RB / 0 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 / 0 RB Offset

Note:

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

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 / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		23025 to 23165	23025 (700.5MHz), 23095 (707.5MHz), 23165 (714.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0 MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Modulation Characteristics	23060 to 23130	23095 (707.5MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Frequency Stability	23017 to 23173	23017 (699.7MHz), 23173 (715.3MHz)	1.4MHz	QPSK	6 RB / 0 RB Offset
		23025 to 23165	23025 (700.5MHz), 23165 (714.5MHz)	3MHz	QPSK	15 RB / 0 RB Offset
		23035 to 23155	23035 (701.5MHz), 23155 (713.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		23060 to 23130	23060 (704.0MHz), 23130 (711.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
-	Emission Bandwidth	23017 to 23173	23017 (699.7MHz), 23095 (707.5MHz), 23173 (715.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	6 RB / 0 RB Offset
		23025 to 23165	23025 (700.5MHz), 23095 (707.5MHz), 23165 (714.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	15 RB / 0 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	23017 to 23173	23017 (699.7MHz), 23173 (715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
		23025 to 23165	23025 (700.5MHz), 23165 (714.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
		23035 to 23155	23035 (701.5MHz), 23155 (713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23060 to 23130	23060 (704.0MHz), 23130 (711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Peak to Average Ratio	23017 to 23173	23017 (699.7MHz), 23095 (707.5MHz), 23173 (715.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 2 RB Offset
		23025 to 23165	23025 (700.5MHz), 23095 (707.5MHz), 23165 (714.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 7 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 12 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	23017 to 23173	23017 (699.7MHz), 23095 (707.5MHz), 23173 (715.3MHz)	1.4MHz	QPSK	1 RB / 2 RB Offset
		23025 to 23165	23025 (700.5MHz), 23095 (707.5MHz), 23165 (714.5MHz)	3MHz	QPSK	1 RB / 7 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK	1 RB / 12 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	23060 to 23130	23095 (707.5MHz)	10MHz	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 / 2 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK	1 RB / 12 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 13

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23205 to 23255	23205 (779.5MHz), 23230 (782.0MHz), 23255 (784.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23230	23230 (782.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Modulation Characteristics	23230	23230 (782.0MHz),	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Frequency Stability	23205 to 23255	23205 (779.5MHz), 23255 (784.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		23230	23230 (782.0MHz),	10MHz	QPSK	50 RB / 0 RB Offset
-	Emission Bandwidth	23205 to 23255	23205 (779.5MHz), 23230 (782.0MHz), 23255 (784.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		23230	23230 (782.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Band Edge	23205 to 23255	23205 (779.5MHz), 23255 (784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23230	23230 (782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Peak to Average Ratio	23205 to 23255	23205 (779.5MHz), 23230 (782.0MHz), 23255 (784.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		23230	23230 (782.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	23205 to 23255	23205 (779.5MHz), 23230 (782.0MHz), 23255 (784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230 (782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	23230	23230 (782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23205 to 23255	23205 (779.5MHz), 23230 (782.0MHz), 23255 (784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230 (782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 17

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23755 to 23825	23755 (706.5MHz), 23790 (710.0MHz), 23825 (713.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23780 to 23800	23780 (709.0MHz), 23790 (710.0MHz), 23800 (711.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Modulation Characteristics	23780 to 23800	23790 (710.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Frequency Stability	23755 to 23825	23755 (706.5MHz), 23825 (713.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		23780 to 23800	23780 (709.0MHz), 23800 (711.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
-	Emission Bandwidth	23755 to 23825	23755 (706.5MHz), 23790 (710.0MHz), 23825 (713.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		23780 to 23800	23780 (709.0MHz), 23790 (710.0MHz), 23800 (711.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Band Edge	23755 to 23825	23755 (706.5MHz), 23825 (713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23780 to 23800	23780 (709.0MHz), 23800 (711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Peak to Average Ratio	23755 to 23825	23755 (706.5MHz), 23790 (710.0MHz), 23825 (713.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 12 RB Offset
		23780 to 23800	23780 (709.0MHz), 23790 (710.0MHz), 23800 (711.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	23755 to 23825	23755 (706.5MHz), 23790 (710.0MHz), 23825 (713.5MHz)	5MHz	QPSK	1 RB / 12 RB Offset
		23780 to 23800	23780 (709.0MHz), 23790 (710.0MHz), 23800 (711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	23780 to 23800	23790 (710.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23755 to 23825	23755 (706.5MHz), 23790 (710.0MHz), 23825 (713.5MHz)	5MHz	QPSK	1 RB / 12 RB Offset
		23780 to 23800	23780 (709.0MHz), 23790 (710.0MHz), 23800 (711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 30

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	27685 to 27735	27685 (2307.5MHz), 27710 (2310.0MHz), 27735 (2312.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		27710	27710 (2310.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Modulation Characteristics	27710	27710 (2310.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Frequency Stability	27685 to 27735	27685 (2307.5MHz), 27735 (2312.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		27710	27710 (2310.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
-	Emission Bandwidth	27685 to 27735	27685 (2307.5MHz), 27710 (2310.0MHz), 27735 (2312.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		27710	27710 (2310.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Emission Mask	27685 to 27735	27685 (2307.5MHz), 27735 (2312.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		27710	27710 (2310.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Conducted Emission	27685 to 27735	27685 (2307.5MHz), 27710 (2310.0MHz), 27735 (2312.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		27710	27710 (2310.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	27685 to 27735	27710 (2310.0MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	27685 to 27735	27685 (2307.5MHz), 27710 (2310.0MHz), 27735 (2312.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		27710	27710 (2310.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 38

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	37775 to 38225	37775 (2572.5MHz), 38000 (2595.0MHz), 38225 (2617.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		37800 to 38200	37800 (2575.0MHz), 38000 (2595.0MHz), 38200 (2615.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		37825 to 38175	37825 (2577.5MHz), 38000 (2595.0MHz), 38175 (2612.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		37850 to 38150	37850 (2580.0MHz), 38000 (2595.0MHz), 38150 (2610.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Modulation Characteristics	37850 to 38150	38000 (2595.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Frequency Stability	37775 to 38225	37775 (2572.5MHz), 38225 (2617.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		37800 to 38200	37800 (2575.0MHz), 38200 (2615.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		37825 to 38175	37825 (2577.5MHz), 38175 (2612.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		37850 to 38150	37850 (2580.0MHz), 38150 (2610.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset
-	Emission Bandwidth	37775 to 38225	37775 (2572.5MHz), 38000 (2595.0MHz), 38225 (2617.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		37800 to 38200	37800 (2575.0MHz), 38000 (2595.0MHz), 38200 (2615.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
		37825 to 38175	37825 (2577.5MHz), 38000 (2595.0MHz), 38175 (2612.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	75 RB / 0 RB Offset
		37850 to 38150	37850 (2580.0MHz), 38000 (2595.0MHz), 38150 (2610.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Out-of-Band Emissions	37775 to 38225	37775 (2572.5MHz), 38225 (2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		37800 to 38200	37800 (2575.0MHz), 38200 (2615.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		37825 to 38175	37825 (2577.5MHz), 38175 (2612.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		37850 to 38150	37850 (2580.0MHz), 38150 (2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	37775 to 38225	37775 (2572.5MHz), 38000 (2595.0MHz), 38225 (2617.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		37800 to 38200	37800 (2575.0MHz), 38000 (2595.0MHz), 38200 (2615.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		37825 to 38175	37825 (2577.5MHz), 38000 (2595.0MHz), 38175 (2612.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		37850 to 38150	37850 (2580.0MHz), 38000 (2595.0MHz), 38150 (2610.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	37775 to 38225	37775 (2572.5MHz), 38000 (2595.0MHz), 38225 (2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37800 to 38200	37800 (2575.0MHz), 38000 (2595.0MHz), 38200 (2615.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		37825 to 38175	37825 (2577.5MHz), 38000 (2595.0MHz), 38175 (2612.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850 (2580.0MHz), 38000 (2595.0MHz), 38150 (2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	37850 to 38150	37850 (2580.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	37775 to 38225	37775 (2572.5MHz), 38000 (2595.0MHz), 38225 (2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850 (2580.0MHz), 38000 (2595.0MHz), 38150 (2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 40 (2305MHz ~ 2315MHz)

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	38725 to 38775	38725 (2307.5MHz), 38750 (2310.0MHz), 38775 (2312.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		38750	38750 (2310.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Modulation Characteristics	38750	38750 (2310.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Frequency Stability	38725 to 38775	38725 (2307.5MHz), 38775 (2312.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		38750	38750 (2310.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
-	Emission Bandwidth	38725 to 38775	38725 (2307.5MHz), 38750 (2310.0MHz), 38775 (2312.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		38750	38750 (2310.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Emission Mask	38725 to 38775	38725 (2307.5MHz), 38775 (2312.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		38750	38750 (2310.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Conducted Emission	38725 to 38775	38725 (2307.5MHz), 38750 (2310.0MHz), 38775 (2312.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		38750	38750 (2310.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	38750	38750 (2310.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	38725 to 38775	38725 (2307.5MHz), 38750 (2310.0MHz), 38775 (2312.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		38750	38750 (2310.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 40 (2350MHz ~ 2360MHz)

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	39175 to 39225	39175 (2352.5MHz), 39200 (2355.0MHz), 39225 (2357.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		39200	39200 (2355.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Modulation Characteristics	39200	39200 (2355.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Frequency Stability	39175 to 39225	39175 (2352.5MHz), 39225 (2357.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		39200	39200 (2355.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
-	Emission Bandwidth	39175 to 39225	39175 (2352.5MHz), 39200 (2355.0MHz), 39225 (2357.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		39200	39200 (2355.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
-	Emission Mask	39175 to 39225	39175 (2352.5MHz), 39225 (2357.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		39200	39200 (2355.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Conducted Emission	39175 to 39225	39175 (2352.5MHz), 39200 (2355.0MHz), 39225 (2357.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		39200	39200 (2355.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	39200	39200 (2355.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	39175 to 39225	39175 (2352.5MHz), 39200 (2355.0MHz), 39225 (2357.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		39200	39200 (2355.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

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

LTE Band 41

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	39675 to 41565	39675 (2498.5MHz), 40620 (2593.0MHz), 41565 (2687.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		39700 to 41540	39700 (2501.0MHz), 40620 (2593.0MHz), 41540 (2685.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		39725 to 41515	39725 (2503.5MHz), 40620 (2593.0MHz), 41515 (2682.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		39750 to 41490	39750 (2506.0MHz), 40620 (2593.0MHz), 41490 (2680.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Modulation Characteristics	39750 to 41490	40620 (2593.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Frequency Stability	39675 to 41565	39675 (2498.5MHz), 41565 (2687.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		39700 to 41540	39700 (2501.0MHz), 41540 (2685.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		39725 to 41515	39725 (2503.5MHz), 41515 (2682.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		39750 to 41490	39750 (2506.0MHz), 41490 (2680.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset
-	Emission Bandwidth	39675 to 41565	39675 (2498.5MHz), 40620 (2593.0MHz), 41565 (2687.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		39700 to 41540	39700 (2501.0MHz), 40620 (2593.0MHz), 41540 (2685.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
		39725 to 41515	39725 (2503.5MHz), 40620 (2593.0MHz), 41515 (2682.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	75 RB / 0 RB Offset
		39750 to 41490	39750 (2506.0MHz), 40620 (2593.0MHz), 41490 (2680.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Out-of-Band Emissions	39675 to 41565	39675 (2498.5MHz), 41565 (2687.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		39700 to 41540	39700 (2501.0MHz), 41540 (2685.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		39725 to 41515	39725 (2503.5MHz), 41515 (2682.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		39750 to 41490	39750 (2506.0MHz), 41490 (2680.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	39675 to 41565	39675 (2498.5MHz), 40620 (2593.0MHz), 41565 (2687.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		39700 to 41540	39700 (2501.0MHz), 40620 (2593.0MHz), 41540 (2685.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		39725 to 41515	39725 (2503.5MHz), 40620 (2593.0MHz), 41515 (2682.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		39750 to 41490	39750 (2506.0MHz), 40620 (2593.0MHz), 41490 (2680.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	39675 to 41565	39675 (2498.5MHz), 40620 (2593.0MHz), 41565 (2687.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		39700 to 41540	39700 (2501.0MHz), 40620 (2593.0MHz), 41540 (2685.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		39725 to 41515	39725 (2503.5MHz), 40620 (2593.0MHz), 41515 (2682.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		39750 to 41490	39750 (2506.0MHz), 40620 (2593.0MHz), 41490 (2680.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	39750 to 41490	41490 (2680.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	39675 to 41565	39675 (2498.5MHz), 40620 (2593.0MHz), 41565 (2687.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		39750 to 41490	39750 (2506.0MHz), 40620 (2593.0MHz), 41490 (2680.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

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

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 / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987 (1711.5MHz), 132322 (1745.0MHz), 132657 (1778.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		132022 to 132622	132022 (1715.0MHz), 132322 (1745.0MHz), 132622 (1775.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047 (1717.5MHz), 132322 (1745.0MHz), 132597 (1772.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Modulation Characteristics	132072 to 132572	132322 (1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Frequency Stability	131979 to 132665	131979 (1710.7MHz), 132665 (1779.3MHz)	1.4MHz	QPSK	6 RB / 0 RB Offset
		131987 to 132657	131987 (1711.5MHz), 132657 (1778.5MHz)	3MHz	QPSK	15 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132647 (1777.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		132022 to 132622	132022 (1715.0MHz), 132622 (1775.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		132047 to 132597	132047 (1717.5MHz), 132597 (1772.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132572 (1770.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset
-	Emission Bandwidth	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	6 RB / 0RB Offset
		131987 to 132657	131987 (1711.5MHz), 132322 (1745.0MHz), 132657 (1778.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	15 RB / 0RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25RB / 0RB Offset
		132022 to 132622	132022 (1715.0MHz), 132322 (1745.0MHz), 132622 (1775.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50RB / 0RB Offset
		132047 to 132597	132047 (1717.5MHz), 132322 (1745.0MHz), 132597 (1772.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	75 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Band Edge	131979 to 132665	131979 (1710.7MHz), 132665 (1779.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987 (1711.5MHz), 132657 (1778.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132647 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		132022 to 132622	132022 (1715.0MHz), 132622 (1775.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047 (1717.5MHz), 132597 (1772.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132572 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset

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

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	131979 to 132665	132322 (1745.0MHz)	1.4MHz	QPSK	3 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK	3 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. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, only Modulation characteristics, 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.

LTE Band 71

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	133147 to 133447	133147 (665.5MHz), 133297 (680.5MHz), 133447 (695.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		133172 to 133422	133172 (668.0MHz), 133297 (680.5MHz), 133422 (693.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		133197 to 133397	133197 (670.5MHz), 133297 (680.5MHz), 133397 (690.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133297 (680.5MHz), 133372 (688.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Modulation Characteristics	133222 to 133372	133297 (680.5MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset
-	Frequency Stability	133147 to 133447	133147 (665.5MHz), 133447 (695.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		133172 to 133422	133172 (668.0MHz), 133422 (693.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		133197 to 133397	133197 (670.5MHz), 133397 (690.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133372 (688.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset
-	Emission Bandwidth	133147 to 133447	133147 (665.5MHz), 133297 (680.5MHz), 133447 (695.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	25 RB / 0 RB Offset
		133172 to 133422	133172 (668.0MHz), 133297 (680.5MHz), 133422 (693.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	50 RB / 0 RB Offset
		133197 to 133397	133197 (670.5MHz), 133297 (680.5MHz), 133397 (690.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	75 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133297 (680.5MHz), 133372 (688.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	133147 to 133447	133147 (665.5MHz), 133447 (695.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		133172 to 133422	133172 (668.0MHz), 133422 (693.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		133197 to 133397	133197 (670.5MHz), 133397 (690.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133372 (688.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	133147 to 133447	133147 (665.5MHz), 133297 (680.5MHz), 133447 (695.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		133172 to 133422	133172 (668.0MHz), 133297 (680.5MHz), 133422 (693.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		133197 to 133397	133197 (670.5MHz), 133297 (680.5MHz), 133397 (690.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133297 (680.5MHz), 133372 (688.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset
-	Conducted Emission	133147 to 133447	133147 (665.5MHz), 133297 (680.5MHz), 133447 (695.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		133172 to 133422	133172 (668.0MHz), 133297 (680.5MHz), 133422 (693.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		133197 to 133397	133197 (670.5MHz), 133297 (680.5MHz), 133397 (690.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133297 (680.5MHz), 133372 (688.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	133222 to 133372	133372 (688.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	133147 to 133447	133147 (665.5MHz), 133297 (680.5MHz), 133447 (695.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133297 (680.5MHz), 133372 (688.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

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

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP / ERP	25deg. C, 60%RH	120Vac, 60Hz	Willy Cheng
Modulation Characteristics	25deg. C, 60%RH	120Vac, 60Hz	Willy Cheng
Frequency Stability	25deg. C, 60%RH	7.74Vdc	Willy Cheng
Occupied Bandwidth	25deg. C, 60%RH	120Vac, 60Hz	Willy Cheng
Band Edge	25deg. C, 60%RH	120Vac, 60Hz	Willy Cheng
Peak To Average Ratio	25deg. C, 60%RH	120Vac, 60Hz	Willy Cheng
Conducted Emission	25deg. C, 60%RH	120Vac, 60Hz	Willy Cheng
Radiated Emission	22deg. C, 66%RH	120Vac, 60Hz	Rex Wang

3.4 EUT Operating Conditions

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

3.5 General Description of Applied Standards and References

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

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

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

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

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

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

For LTE Band 30, LTE Band 40:

For mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

For LTE Band 7, LTE Band 38, LTE Band 41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

4.1.2 Test Procedures

Conducted Power Measurement:

For all test band except LTE Band 30:

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

For LTE Band 30:

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

Maximum EIRP / ERP

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

$$\text{EIRP} = P_{\text{Meas}} + G_{\text{T}}$$

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

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

G_{T} gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

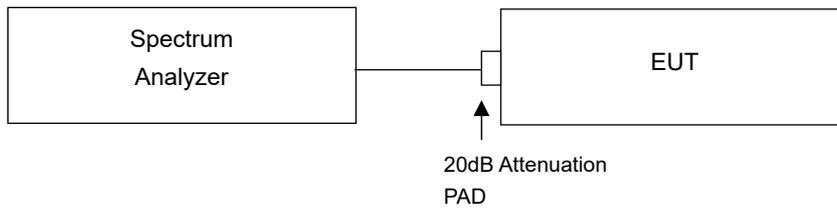
4.1.3 Test Setup

Conducted Power Measurement:

For all test band except LTE Band 30:



For LTE Band 30:



4.1.4 Test Results

Conducted Output Power (dBm, dBm/5MHz for LTE Band 30 and LTE Band 40 only)

Band	WCDMA IV		
	1312	1413	1513
TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	22.98	22.86	22.93
HSDPA Subtest-1	22.23	22.11	22.17
HSDPA Subtest-2	22.26	22.14	22.20
HSDPA Subtest-3	21.74	21.62	21.68
HSDPA Subtest-4	21.80	21.68	21.74
DC-HSDPA Subtest-1	22.37	22.25	22.31
DC-HSDPA Subtest-2	22.40	22.28	22.34
DC-HSDPA Subtest-3	21.88	21.76	21.82
DC-HSDPA Subtest-4	21.94	21.82	21.88
HSUPA Subtest-1	22.35	22.23	22.29
HSUPA Subtest-2	20.42	20.30	20.36
HSUPA Subtest-3	21.16	21.04	21.10
HSUPA Subtest-4	20.39	20.27	20.33
HSUPA Subtest-5	22.34	22.22	22.28

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	23.83	23.87	23.99
		1	50	23.74	23.78	23.99
		1	99	23.69	23.73	23.94
		50	0	22.88	22.92	22.99
		50	25	22.82	22.86	22.93
		50	50	22.80	22.84	22.91
		100	0	22.79	22.83	22.90
20M	16QAM	1	0	22.88	22.92	22.88
		1	50	22.83	22.87	22.98
		1	99	22.82	22.86	22.96
		50	0	21.88	21.92	21.94
		50	25	21.84	21.88	21.96
		50	50	21.83	21.87	21.85
		100	0	21.81	21.85	21.99
20M	64QAM	1	0	21.94	21.98	21.97
		1	50	21.91	21.95	21.94
		1	99	21.84	21.88	21.94
		50	0	20.91	20.95	20.96
		50	25	20.88	20.92	20.98
		50	50	20.87	20.91	20.97
		100	0	20.85	20.89	20.95
20M	256QAM	1	0	18.45	18.27	18.39
		1	50	18.38	18.61	18.44
		1	99	18.15	18.56	18.41
		50	0	17.63	17.64	17.71
		50	25	17.41	17.54	17.65
		50	50	17.44	17.36	17.75
		100	0	17.49	17.65	17.67

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	23.82	23.81	23.95
		1	37	23.71	23.72	23.93
		1	74	23.65	23.67	23.91
		36	0	22.79	22.88	22.93
		36	19	22.80	22.78	22.84
		36	39	22.78	22.76	22.89
		75	0	22.69	22.73	22.86
15M	16QAM	1	0	22.87	22.85	22.85
		1	37	22.79	22.86	22.96
		1	74	22.77	22.86	22.95
		36	0	21.78	21.88	21.84
		36	19	21.82	21.85	21.94
		36	39	21.75	21.87	21.84
		75	0	21.71	21.84	21.97
15M	64QAM	1	0	21.89	21.89	21.87
		1	37	21.86	21.93	21.85
		1	74	21.79	21.85	21.86
		36	0	20.91	20.85	20.87
		36	19	20.83	20.86	20.94
		36	39	20.80	20.82	20.91
		75	0	20.84	20.89	20.93
15M	256QAM	1	0	18.61	18.57	18.66
		1	37	18.19	18.32	18.74
		1	74	18.22	18.29	18.31
		36	0	17.24	17.56	17.47
		36	19	17.64	17.62	17.50
		36	39	17.51	17.35	17.46
		75	0	17.26	17.37	17.47

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	23.62	23.72	23.80
		1	24	23.66	23.72	23.92
		1	49	23.53	23.60	23.80
		25	0	22.71	22.79	22.82
		25	12	22.67	22.65	22.86
		25	25	22.64	22.63	22.80
		50	0	22.70	22.76	22.71
10M	16QAM	1	0	22.77	22.81	22.77
		1	24	22.60	22.76	22.85
		1	49	22.73	22.68	22.80
		25	0	21.85	21.77	21.82
		25	12	21.74	21.87	21.84
		25	25	21.74	21.76	21.72
		50	0	21.65	21.62	21.92
10M	64QAM	1	0	21.80	21.83	21.85
		1	24	21.79	21.83	21.79
		1	49	21.71	21.84	21.70
		25	0	20.81	20.92	20.77
		25	12	20.71	20.75	20.97
		25	25	20.78	20.82	20.82
		50	0	20.71	20.81	20.93
10M	256QAM	1	0	18.24	18.36	18.54
		1	24	18.23	18.36	18.54
		1	49	18.22	18.41	18.63
		25	0	17.46	17.27	17.36
		25	12	17.51	17.24	17.40
		25	25	17.16	17.29	17.48
		50	0	17.52	17.53	17.32

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	23.79	23.70	23.69
		1	12	23.55	23.69	23.85
		1	24	23.63	23.53	23.92
		12	0	22.65	22.76	22.81
		12	6	22.79	22.70	22.76
		12	13	22.59	22.64	22.71
		25	0	22.60	22.74	22.71
5M	16QAM	1	0	22.76	22.88	22.67
		1	12	22.73	22.72	22.91
		1	24	22.76	22.71	22.88
		12	0	21.70	21.87	21.83
		12	6	21.70	21.80	21.95
		12	13	21.68	21.77	21.72
		25	0	21.69	21.70	21.87
5M	64QAM	1	0	21.88	21.85	21.85
		1	12	21.70	21.88	21.88
		1	24	21.78	21.82	21.82
		12	0	20.84	20.74	20.88
		12	6	20.73	20.79	20.75
		12	13	20.76	20.76	20.88
		25	0	20.70	20.70	20.86
5M	256QAM	1	0	18.36	18.23	18.15
		1	12	17.96	18.50	18.42
		1	24	18.35	18.32	18.35
		12	0	17.33	17.24	17.58
		12	6	17.22	17.47	17.21
		12	13	17.18	17.35	17.44
		25	0	17.19	17.33	17.51

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	23.63	23.81	23.90
		1	7	23.63	23.66	23.83
		1	14	23.64	23.70	23.78
		8	0	22.70	22.84	22.82
		8	3	22.69	22.65	22.88
		8	7	22.72	22.81	22.86
		15	0	22.67	22.68	22.87
3M	16QAM	1	0	22.73	22.90	22.80
		1	7	22.61	22.69	22.90
		1	14	22.70	22.83	22.76
		8	0	21.83	21.85	21.70
		8	3	21.77	21.83	21.95
		8	7	21.78	21.71	21.76
		15	0	21.74	21.85	21.90
3M	64QAM	1	0	21.86	21.89	21.84
		1	7	21.91	21.77	21.76
		1	14	21.75	21.81	21.77
		8	0	20.77	20.87	20.88
		8	3	20.73	20.84	20.84
		8	7	20.74	20.78	20.83
		15	0	20.76	20.77	20.79
3M	256QAM	1	0	18.25	18.60	18.42
		1	7	18.35	18.31	18.59
		1	14	18.29	18.53	18.47
		8	0	17.36	17.27	17.34
		8	3	17.42	17.08	17.31
		8	7	17.47	17.38	17.36
		15	0	17.10	17.50	17.53

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	23.69	23.64	23.82
		1	2	23.63	23.69	23.93
		1	5	23.50	23.52	23.70
		3	0	23.66	23.82	23.94
		3	1	23.66	23.84	23.70
		3	3	23.72	23.67	23.77
		6	0	22.72	22.69	22.74
1.4M	16QAM	1	0	22.75	22.76	22.73
		1	2	22.66	22.75	22.82
		1	5	22.69	22.73	22.75
		3	0	22.65	22.80	22.73
		3	1	22.69	22.83	22.90
		3	3	22.69	22.71	22.74
		6	0	21.76	21.71	21.93
1.4M	64QAM	1	0	21.70	21.88	21.87
		1	2	21.82	21.84	21.80
		1	5	21.67	21.68	21.80
		3	0	21.78	21.78	21.85
		3	1	21.78	21.90	21.91
		3	3	21.79	21.77	21.90
		6	0	20.78	20.74	20.84
1.4M	256QAM	1	0	18.33	18.05	18.39
		1	2	18.42	18.10	18.62
		1	5	18.03	18.31	18.51
		3	0	18.19	18.27	18.44
		3	1	18.16	18.43	18.49
		3	3	18.17	18.24	18.58
		6	0	17.33	17.21	17.35

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20850	21100	21350
		Frequency (MHz)		2510	2535	2560
20M	QPSK	1	0	23.61	23.55	23.78
		1	50	23.46	23.40	23.63
		1	99	23.39	23.33	23.56
		50	0	22.67	22.61	22.84
		50	25	22.63	22.57	22.80
		50	50	22.58	22.52	22.75
		100	0	22.65	22.59	22.82
20M	16QAM	1	0	22.76	22.64	22.93
		1	50	22.33	22.27	22.50
		1	99	22.28	22.22	22.45
		50	0	21.67	21.61	21.84
		50	25	21.63	21.57	21.80
		50	50	21.61	21.55	21.78
		100	0	21.64	21.58	21.81
20M	64QAM	1	0	21.67	21.61	21.84
		1	50	21.66	21.60	21.83
		1	99	21.36	21.30	21.53
		50	0	20.66	20.60	20.83
		50	25	20.65	20.59	20.82
		50	50	20.45	20.39	20.62
		100	0	20.64	20.58	20.81
20M	256QAM	1	0	18.40	18.31	18.30
		1	50	17.97	18.00	18.06
		1	99	18.23	17.91	18.21
		50	0	17.35	17.11	17.57
		50	25	17.13	17.34	17.62
		50	50	17.33	17.18	17.18
		100	0	17.22	17.36	17.39

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20825	21100	21375
		Frequency (MHz)		2507.5	2535	2562.5
15M	QPSK	1	0	23.56	23.45	23.70
		1	37	23.37	23.37	23.55
		1	74	23.31	23.30	23.54
		36	0	22.58	22.59	22.84
		36	19	22.62	22.55	22.71
		36	39	22.58	22.44	22.65
		75	0	22.59	22.58	22.75
15M	16QAM	1	0	22.67	22.56	22.93
		1	37	22.28	22.21	22.41
		1	74	22.19	22.14	22.40
		36	0	21.64	21.55	21.77
		36	19	21.53	21.49	21.75
		36	39	21.56	21.50	21.72
		75	0	21.59	21.52	21.79
15M	64QAM	1	0	21.67	21.56	21.81
		1	37	21.59	21.56	21.77
		1	74	21.28	21.29	21.46
		36	0	20.64	20.50	20.74
		36	19	20.57	20.59	20.77
		36	39	20.41	20.32	20.58
		75	0	20.64	20.48	20.75
15M	256QAM	1	0	17.97	18.07	18.49
		1	37	18.07	18.04	18.15
		1	74	17.87	18.02	17.95
		36	0	17.22	17.23	17.38
		36	19	17.26	17.19	17.30
		36	39	17.22	17.15	17.36
		75	0	17.14	17.22	17.25

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20800	21100	21400
		Frequency (MHz)		2505	2535	2565
10M	QPSK	1	0	23.52	23.40	23.72
		1	24	23.39	23.19	23.38
		1	49	23.38	23.21	23.41
		25	0	22.53	22.50	22.76
		25	12	22.52	22.46	22.62
		25	25	22.34	22.30	22.55
		50	0	22.50	22.45	22.70
10M	16QAM	1	0	22.68	22.53	22.84
		1	24	22.20	22.10	22.47
		1	49	22.13	22.11	22.25
		25	0	21.45	21.50	21.79
		25	12	21.59	21.39	21.63
		25	25	21.55	21.34	21.56
		50	0	21.61	21.47	21.65
10M	64QAM	1	0	21.45	21.45	21.77
		1	24	21.47	21.45	21.70
		1	49	21.17	21.24	21.36
		25	0	20.66	20.46	20.77
		25	12	20.58	20.53	20.72
		25	25	20.35	20.31	20.54
		50	0	20.46	20.41	20.61
10M	256QAM	1	0	18.17	17.91	18.13
		1	24	18.20	17.73	17.96
		1	49	17.98	18.05	17.82
		25	0	17.07	17.07	17.49
		25	12	17.29	17.10	17.42
		25	25	17.09	17.14	17.23
		50	0	17.08	17.14	17.50

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20775	21100	21425
		Frequency (MHz)		2502.5	2535	2567.5
5M	QPSK	1	0	23.47	23.34	23.51
		1	12	23.32	23.32	23.51
		1	24	23.23	23.12	23.42
		12	0	22.50	22.46	22.72
		12	6	22.45	22.32	22.51
		12	13	22.40	22.38	22.49
		25	0	22.57	22.56	22.58
5M	16QAM	1	0	22.67	22.52	22.81
		1	12	22.25	22.19	22.40
		1	24	22.12	22.12	22.38
		12	0	21.47	21.53	21.64
		12	6	21.40	21.44	21.66
		12	13	21.46	21.41	21.65
		25	0	21.45	21.44	21.71
5M	64QAM	1	0	21.55	21.52	21.81
		1	12	21.59	21.56	21.67
		1	24	21.26	21.22	21.39
		12	0	20.55	20.50	20.70
		12	6	20.59	20.35	20.65
		12	13	20.37	20.33	20.53
		25	0	20.45	20.37	20.79
5M	256QAM	1	0	18.21	17.90	18.02
		1	12	17.78	17.88	17.95
		1	24	17.97	17.70	18.19
		12	0	17.28	17.12	17.27
		12	6	17.03	17.10	17.19
		12	13	17.11	17.16	17.20
		25	0	17.10	17.24	17.11

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	24.88	24.67	24.62
		1	24	24.87	24.66	24.60
		1	49	24.79	24.58	24.52
		25	0	23.85	23.64	23.58
		25	12	23.82	23.61	23.55
		25	25	23.81	23.60	23.54
		50	0	23.85	23.64	23.58
10M	16QAM	1	0	23.84	23.63	23.57
		1	24	23.74	23.53	23.47
		1	49	23.73	23.52	23.46
		25	0	22.97	22.68	22.59
		25	12	22.96	22.63	22.56
		25	25	22.99	22.70	22.59
		50	0	22.95	22.60	22.60
10M	64QAM	1	0	22.91	22.62	22.59
		1	24	22.96	22.54	22.55
		1	49	22.49	22.28	22.22
		25	0	21.70	21.49	21.43
		25	12	21.64	21.43	21.37
		25	25	21.56	21.35	21.29
		50	0	21.66	21.45	21.39
10M	256QAM	1	0	19.71	19.32	19.08
		1	24	19.67	19.04	19.40
		1	49	19.29	19.09	19.20
		25	0	18.35	18.17	18.04
		25	12	18.63	18.42	18.22
		25	25	18.43	18.39	18.35
		50	0	18.40	18.36	18.18

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	24.78	24.59	24.61
		1	12	24.79	24.61	24.56
		1	24	24.69	24.57	24.48
		12	0	23.76	23.59	23.55
		12	6	23.80	23.53	23.51
		12	13	23.80	23.53	23.46
		25	0	23.78	23.64	23.54
5M	16QAM	1	0	23.79	23.63	23.48
		1	12	23.72	23.43	23.42
		1	24	23.68	23.47	23.37
		12	0	22.97	22.67	22.51
		12	6	22.87	22.57	22.55
		12	13	22.91	22.67	22.52
		25	0	22.92	22.52	22.50
5M	64QAM	1	0	22.91	22.55	22.53
		1	12	22.96	22.54	22.45
		1	24	22.41	22.19	22.18
		12	0	21.69	21.43	21.42
		12	6	21.63	21.33	21.34
		12	13	21.54	21.32	21.25
		25	0	21.62	21.38	21.36
5M	256QAM	1	0	19.61	19.34	19.44
		1	12	19.20	19.44	18.95
		1	24	19.07	18.96	19.21
		12	0	18.50	18.07	18.08
		12	6	18.23	18.25	18.15
		12	13	18.40	18.15	18.08
		25	0	18.49	18.33	18.02

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	24.79	24.48	24.54
		1	7	24.81	24.50	24.40
		1	14	24.63	24.48	24.38
		8	0	23.67	23.45	23.52
		8	3	23.76	23.44	23.42
		8	7	23.75	23.46	23.35
		15	0	23.77	23.43	23.47
3M	16QAM	1	0	23.67	23.53	23.37
		1	7	23.61	23.43	23.37
		1	14	23.56	23.32	23.24
		8	0	22.87	22.44	22.46
		8	3	22.86	22.51	22.37
		8	7	22.85	22.60	22.54
		15	0	22.89	22.43	22.50
3M	64QAM	1	0	22.86	22.41	22.48
		1	7	22.84	22.39	22.35
		1	14	22.40	22.17	22.08
		8	0	21.52	21.33	21.39
		8	3	21.46	21.27	21.17
		8	7	21.42	21.27	21.13
		15	0	21.57	21.25	21.25
3M	256QAM	1	0	19.62	19.21	19.29
		1	7	19.56	19.11	19.01
		1	14	19.14	19.19	18.99
		8	0	18.46	18.06	18.06
		8	3	18.43	18.28	18.15
		8	7	18.47	18.04	18.11
		15	0	18.32	18.11	18.08

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	24.72	24.48	24.46
		1	2	24.82	24.48	24.52
		1	5	24.58	24.53	24.34
		3	0	24.80	24.43	24.37
		3	1	24.77	24.51	24.46
		3	3	24.77	24.50	24.35
		6	0	23.64	23.48	23.57
1.4M	16QAM	1	0	23.82	23.58	23.43
		1	2	23.57	23.41	23.40
		1	5	23.49	23.41	23.30
		3	0	23.87	23.57	23.53
		3	1	23.80	23.49	23.51
		3	3	23.91	23.61	23.53
		6	0	22.73	22.47	22.47
1.4M	64QAM	1	0	22.76	22.42	22.49
		1	2	22.82	22.42	22.41
		1	5	22.43	22.26	22.06
		3	0	22.51	22.34	22.33
		3	1	22.55	22.27	22.23
		3	3	22.45	22.27	22.16
		6	0	21.53	21.25	21.24
1.4M	256QAM	1	0	19.45	19.28	18.95
		1	2	19.30	18.99	19.23
		1	5	19.24	19.24	18.93
		3	0	19.50	18.89	19.08
		3	1	19.60	19.24	19.07
		3	3	19.35	19.23	18.89
		6	0	18.29	18.27	18.10

LTE Band 13				
BW	MCS Index	RB Size	RB Offset	Low
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	24.93
		1	24	24.86
		1	49	24.84
		25	0	23.92
		25	12	23.82
		25	25	23.67
		50	0	23.84
10M	16QAM	1	0	23.94
		1	24	23.92
		1	49	23.86
		25	0	22.94
		25	12	22.87
		25	25	22.82
		50	0	22.94
10M	64QAM	1	0	22.89
		1	24	22.79
		1	49	22.70
		25	0	21.94
		25	12	21.59
		25	25	21.86
		50	0	21.79
10M	256QAM	1	0	19.73
		1	24	19.44
		1	49	19.57
		25	0	18.32
		25	12	18.30
		25	25	18.36
		50	0	18.43

LTE Band 13						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23205	23230	23255
		Frequency (MHz)		779.5	782	784.5
5M	QPSK	1	0	24.79	24.88	24.68
		1	12	24.68	24.86	24.64
		1	24	24.61	24.78	24.66
		12	0	23.68	23.92	23.67
		12	6	23.64	23.75	23.60
		12	13	23.71	23.61	23.68
		25	0	23.82	23.78	23.76
5M	16QAM	1	0	23.75	23.92	23.79
		1	12	23.64	23.92	23.59
		1	24	23.59	23.80	23.55
		12	0	22.85	22.85	22.77
		12	6	22.83	22.80	22.86
		12	13	22.81	22.81	22.73
		25	0	22.81	22.88	22.77
5M	64QAM	1	0	22.74	22.81	22.70
		1	12	22.78	22.79	22.73
		1	24	22.43	22.60	22.30
		12	0	21.52	21.88	21.41
		12	6	21.50	21.53	21.38
		12	13	21.50	21.76	21.47
		25	0	21.52	21.70	21.54
5M	256QAM	1	0	19.39	19.31	19.38
		1	12	19.48	19.56	19.42
		1	24	19.02	19.38	19.44
		12	0	18.23	18.37	18.17
		12	6	18.26	18.32	18.15
		12	13	18.47	18.42	18.47
		25	0	18.53	18.54	18.21

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	24.71	24.82	24.75
		1	24	24.68	24.79	24.67
		1	49	24.65	24.76	24.64
		25	0	23.73	23.84	23.72
		25	12	23.65	23.76	23.64
		25	25	23.62	23.73	23.61
		50	0	23.69	23.80	23.68
10M	16QAM	1	0	23.70	23.81	23.69
		1	24	23.67	23.78	23.66
		1	49	23.64	23.75	23.63
		25	0	22.71	22.82	22.70
		25	12	22.69	22.80	22.68
		25	25	22.65	22.76	22.64
		50	0	22.70	22.81	22.69
10M	64QAM	1	0	22.69	22.80	22.68
		1	24	22.61	22.72	22.60
		1	49	22.59	22.70	22.58
		25	0	21.67	21.78	21.66
		25	12	21.63	21.74	21.62
		25	25	21.36	21.47	21.35
		50	0	21.47	21.58	21.46
10M	256QAM	1	0	19.27	19.22	19.23
		1	24	19.41	19.49	19.20
		1	49	19.08	19.54	19.37
		25	0	18.14	18.27	18.55
		25	12	18.46	18.45	18.45
		25	25	18.19	18.37	18.02
		50	0	18.19	18.51	18.09

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	24.61	24.74	24.67
		1	12	24.66	24.77	24.62
		1	24	24.62	24.68	24.60
		12	0	23.63	23.80	23.72
		12	6	23.62	23.67	23.60
		12	13	23.57	23.64	23.56
		25	0	23.61	23.76	23.64
5M	16QAM	1	0	23.70	23.80	23.65
		1	12	23.63	23.70	23.61
		1	24	23.60	23.73	23.58
		12	0	22.62	22.72	22.69
		12	6	22.66	22.76	22.66
		12	13	22.65	22.75	22.55
		25	0	22.68	22.80	22.64
5M	64QAM	1	0	22.68	22.72	22.59
		1	12	22.58	22.72	22.52
		1	24	22.59	22.68	22.56
		12	0	21.67	21.78	21.57
		12	6	21.54	21.69	21.55
		12	13	21.31	21.40	21.34
		25	0	21.37	21.55	21.39
5M	256QAM	1	0	19.14	19.52	19.45
		1	12	19.04	19.37	19.28
		1	24	19.13	19.48	19.18
		12	0	18.28	18.28	18.15
		12	6	18.36	18.22	18.03
		12	13	18.22	18.05	18.21
		25	0	18.40	18.47	18.19

LTE Band 30				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		27710
		Frequency (MHz)		2310
10M	QPSK	1	0	23.31
		1	24	23.19
		1	49	23.14
		25	0	22.27
		25	12	22.24
		25	25	22.20
		50	0	22.22
10M	16QAM	1	0	22.33
		1	24	22.28
		1	49	22.25
		25	0	21.33
		25	12	21.24
		25	25	21.21
		50	0	21.24
10M	64QAM	1	0	21.32
		1	24	21.20
		1	49	21.15
		25	0	20.26
		25	12	20.25
		25	25	20.21
		50	0	20.22
10M	256QAM	1	0	17.84
		1	24	17.82
		1	49	17.58
		25	0	17.36
		25	12	17.20
		25	25	17.19
		50	0	17.24

LTE Band 30						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		27685	27710	27735
		Frequency (MHz)		2307.5	2310	2312.5
5M	QPSK	1	0	23.18	23.25	23.13
		1	12	23.03	23.18	23.02
		1	24	23.03	23.07	22.94
		12	0	22.15	22.20	22.16
		12	6	22.11	22.24	22.11
		12	13	22.12	22.15	22.05
		25	0	22.09	22.18	22.11
5M	16QAM	1	0	22.20	22.30	22.21
		1	12	22.21	22.18	22.15
		1	24	22.09	22.20	21.96
		12	0	21.20	21.29	21.15
		12	6	21.08	21.22	21.03
		12	13	21.15	21.15	21.12
		25	0	21.22	21.23	21.08
5M	64QAM	1	0	21.18	21.32	21.17
		1	12	21.06	21.20	21.01
		1	24	21.06	21.10	20.92
		12	0	20.07	20.16	20.05
		12	6	20.15	20.24	20.06
		12	13	20.11	20.12	19.99
		25	0	20.19	20.20	20.08
5M	256QAM	1	0	17.65	18.02	17.78
		1	12	17.75	17.65	17.77
		1	24	17.57	17.84	17.39
		12	0	17.02	17.40	17.36
		12	6	17.09	17.20	17.16
		12	13	17.34	17.22	17.10
		25	0	17.05	17.25	17.29

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37850	38000	38150
		Frequency (MHz)		2580	2595	2610
20M	QPSK	1	0	23.69	23.82	23.79
		1	50	23.48	23.69	23.66
		1	99	23.41	23.62	23.59
		50	0	22.62	22.83	22.80
		50	25	22.57	22.78	22.75
		50	50	22.51	22.72	22.69
		100	0	22.60	22.81	22.78
20M	16QAM	1	0	22.58	22.79	22.76
		1	50	22.56	22.77	22.74
		1	99	22.50	22.71	22.68
		50	0	21.61	21.82	21.79
		50	25	21.59	21.80	21.77
		50	50	21.56	21.77	21.74
		100	0	21.57	21.78	21.75
20M	64QAM	1	0	21.32	21.53	21.50
		1	50	21.30	21.51	21.48
		1	99	21.22	21.43	21.40
		50	0	20.62	20.83	20.80
		50	25	20.58	20.79	20.76
		50	50	20.57	20.78	20.75
		100	0	20.53	20.74	20.71
20M	256QAM	1	0	18.29	18.58	18.46
		1	50	18.29	18.50	18.31
		1	99	17.87	18.27	18.07
		50	0	17.21	17.26	17.28
		50	25	17.12	17.55	17.20
		50	50	17.06	17.56	17.44
		100	0	17.19	17.56	17.48

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37825	38000	38175
		Frequency (MHz)		2577.5	2595	2612.5
15M	QPSK	1	0	23.66	23.77	23.71
		1	37	23.43	23.59	23.56
		1	74	23.39	23.54	23.57
		36	0	22.54	22.82	22.78
		36	19	22.57	22.73	22.65
		36	39	22.48	22.69	22.59
		75	0	22.57	22.76	22.73
15M	16QAM	1	0	22.53	22.76	22.68
		1	37	22.51	22.75	22.67
		1	74	22.45	22.64	22.61
		36	0	21.58	21.80	21.72
		36	19	21.55	21.71	21.69
		36	39	21.51	21.77	21.68
		75	0	21.49	21.71	21.68
15M	64QAM	1	0	21.32	21.49	21.44
		1	37	21.28	21.46	21.38
		1	74	21.16	21.42	21.31
		36	0	20.59	20.77	20.76
		36	19	20.53	20.78	20.73
		36	39	20.54	20.69	20.69
		75	0	20.45	20.66	20.67
15M	256QAM	1	0	18.38	18.53	18.19
		1	37	17.91	18.35	18.35
		1	74	18.02	18.33	18.08
		36	0	17.07	17.66	17.42
		36	19	17.05	17.41	17.42
		36	39	17.23	17.33	17.16
		75	0	17.01	17.53	17.50

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37800	38000	38200
		Frequency (MHz)		2575	2595	2615
10M	QPSK	1	0	23.51	23.72	23.73
		1	24	23.39	23.61	23.54
		1	49	23.33	23.53	23.52
		25	0	22.47	22.66	22.78
		25	12	22.48	22.55	22.64
		25	25	22.37	22.56	22.56
		50	0	22.41	22.69	22.65
10M	16QAM	1	0	22.43	22.67	22.73
		1	24	22.43	22.59	22.64
		1	49	22.35	22.49	22.57
		25	0	21.58	21.63	21.66
		25	12	21.47	21.74	21.54
		25	25	21.33	21.63	21.63
		50	0	21.44	21.74	21.62
10M	64QAM	1	0	21.18	21.36	21.44
		1	24	21.21	21.40	21.41
		1	49	21.08	21.28	21.24
		25	0	20.44	20.73	20.65
		25	12	20.38	20.76	20.70
		25	25	20.49	20.76	20.73
		50	0	20.31	20.51	20.55
10M	256QAM	1	0	18.35	18.44	18.47
		1	24	17.92	18.28	18.19
		1	49	17.86	17.94	17.96
		25	0	17.07	17.46	17.28
		25	12	17.05	17.39	17.07
		25	25	17.13	17.29	17.29
		50	0	17.24	17.44	17.45

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37775	38000	38225
		Frequency (MHz)		2572.5	2595	2617.5
5M	QPSK	1	0	23.59	23.63	23.57
		1	12	23.41	23.58	23.42
		1	24	23.22	23.52	23.54
		12	0	22.38	22.72	22.67
		12	6	22.48	22.53	22.46
		12	13	22.41	22.67	22.53
		25	0	22.38	22.60	22.70
5M	16QAM	1	0	22.41	22.61	22.64
		1	12	22.39	22.61	22.59
		1	24	22.32	22.67	22.64
		12	0	21.43	21.73	21.67
		12	6	21.38	21.62	21.60
		12	13	21.55	21.63	21.65
		25	0	21.48	21.76	21.60
5M	64QAM	1	0	21.22	21.31	21.41
		1	12	21.18	21.49	21.36
		1	24	21.02	21.37	21.21
		12	0	20.54	20.59	20.64
		12	6	20.38	20.65	20.70
		12	13	20.46	20.57	20.57
		25	0	20.44	20.58	20.55
5M	256QAM	1	0	18.31	18.06	18.22
		1	12	17.85	18.06	18.16
		1	24	18.03	18.00	18.21
		12	0	17.19	17.40	17.40
		12	6	17.18	17.24	17.15
		12	13	17.26	17.26	17.33
		25	0	17.11	17.24	17.34

LTE Band 40 (2305MHz ~ 2315MHz)				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		38750
		Frequency (MHz)		2310
10M	QPSK	1	0	23.45
		1	24	23.22
		1	49	23.21
		25	0	22.55
		25	12	22.29
		25	25	22.40
		50	0	22.39
10M	16QAM	1	0	22.27
		1	24	22.20
		1	49	22.45
		25	0	21.50
		25	12	21.41
		25	25	21.30
		50	0	21.33
10M	64QAM	1	0	21.12
		1	24	21.03
		1	49	21.02
		25	0	20.65
		25	12	20.50
		25	25	20.39
		50	0	20.40
10M	256QAM	1	0	17.72
		1	24	17.77
		1	49	17.80
		25	0	17.01
		25	12	17.11
		25	25	17.20
		50	0	17.25

LTE Band 40 (2305MHz ~ 2315MHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		38725	38750	38775
		Frequency (MHz)		2307.5	2310	2312.5
5M	QPSK	1	0	23.33	23.42	23.36
		1	12	23.20	23.20	23.34
		1	24	23.15	23.19	23.20
		12	0	22.40	22.45	22.55
		12	6	22.30	22.33	22.36
		12	13	22.41	22.22	22.30
		25	0	22.44	22.40	22.44
5M	16QAM	1	0	22.29	22.46	22.49
		1	12	22.41	22.45	22.55
		1	24	22.40	22.28	22.40
		12	0	21.33	21.47	21.60
		12	6	21.30	21.40	21.52
		12	13	21.36	21.36	21.53
		25	0	21.39	21.36	21.56
5M	64QAM	1	0	21.02	21.09	21.07
		1	12	21.00	21.06	21.22
		1	24	20.85	20.86	20.86
		12	0	20.61	20.45	20.54
		12	6	20.30	20.44	20.55
		12	13	20.36	20.40	20.40
		25	0	20.38	20.50	20.43
5M	256QAM	1	0	18.14	18.01	18.00
		1	12	17.72	17.66	18.01
		1	24	17.80	17.88	17.65
		12	0	17.01	17.35	17.10
		12	6	17.03	17.25	17.07
		12	13	17.23	17.05	17.11
		25	0	17.12	17.10	17.04

LTE Band 40 (2350MHz ~ 2360MHz)				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		39200
		Frequency (MHz)		2355
10M	QPSK	1	0	23.40
		1	24	23.30
		1	49	23.22
		25	0	22.45
		25	12	22.33
		25	25	22.36
		50	0	22.35
10M	16QAM	1	0	22.22
		1	24	22.15
		1	49	22.40
		25	0	21.43
		25	12	21.36
		25	25	21.23
		50	0	21.30
10M	64QAM	1	0	21.02
		1	24	21.01
		1	49	21.00
		25	0	20.66
		25	12	20.48
		25	25	20.36
		50	0	20.43
10M	256QAM	1	0	17.69
		1	24	17.62
		1	49	17.66
		25	0	17.00
		25	12	17.03
		25	25	17.15
		50	0	17.25

LTE Band 40 (2350MHz ~ 2360MHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39175	39200	39225
		Frequency (MHz)		2352.5	2355	2357.5
5M	QPSK	1	0	23.35	23.39	23.33
		1	12	23.11	23.25	23.28
		1	24	23.14	23.22	23.24
		12	0	22.42	22.35	22.51
		12	6	22.22	22.23	22.40
		12	13	22.34	22.20	22.31
		25	0	22.35	22.31	22.40
5M	16QAM	1	0	22.19	22.36	22.38
		1	12	22.30	22.41	22.45
		1	24	22.23	22.26	22.35
		12	0	21.32	21.50	21.54
		12	6	21.22	21.37	21.44
		12	13	21.33	21.33	21.36
		25	0	21.36	21.32	21.37
5M	64QAM	1	0	21.00	21.10	21.10
		1	12	21.01	21.05	21.02
		1	24	20.79	20.84	20.90
		12	0	20.55	20.39	20.47
		12	6	20.26	20.40	20.51
		12	13	20.34	20.33	20.36
		25	0	20.35	20.44	20.41
5M	256QAM	1	0	17.92	17.90	17.89
		1	12	17.56	17.63	17.70
		1	24	17.70	17.79	17.62
		12	0	17.00	17.26	17.05
		12	6	17.05	17.24	17.01
		12	13	17.25	17.01	17.14
		25	0	17.12	17.09	17.04

LTE Band 41 (Power Class 2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	25.81	26.08	25.69
		1	50	25.64	25.91	25.57
		1	99	25.62	25.89	25.55
		50	0	25.11	25.38	25.04
		50	25	25.06	25.33	24.99
		50	50	24.95	25.22	24.88
		100	0	24.89	25.16	24.82
20M	16QAM	1	0	24.80	25.07	24.65
		1	50	24.58	24.81	24.56
		1	99	24.56	24.82	24.47
		50	0	24.08	24.28	24.00
		50	25	23.97	24.29	23.89
		50	50	23.90	24.17	23.80
		100	0	23.87	24.07	23.72
20M	64QAM	1	0	23.81	24.05	23.61
		1	50	23.64	23.81	23.54
		1	99	23.55	23.82	23.48
		50	0	23.10	23.34	22.97
		50	25	22.96	23.31	22.92
		50	50	22.93	23.17	22.85
		100	0	22.88	23.08	22.74
20M	256QAM	1	0	20.48	20.50	20.48
		1	50	20.23	20.47	20.06
		1	99	20.36	20.27	20.24
		50	0	19.53	19.75	19.64
		50	25	19.61	19.72	19.77
		50	50	19.50	19.82	19.38
		100	0	19.67	19.61	19.37

LTE Band 41 (Power Class 2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	25.72	25.98	25.66
		1	37	25.64	25.90	25.56
		1	74	25.58	25.85	25.46
		36	0	25.05	25.36	25.01
		36	19	25.05	25.29	24.89
		36	39	24.93	25.22	24.79
		75	0	24.88	25.12	24.72
15M	16QAM	1	0	24.71	25.03	24.65
		1	37	24.57	24.89	24.56
		1	74	24.59	24.82	24.47
		36	0	24.01	24.37	23.94
		36	19	24.00	24.24	23.89
		36	39	23.89	24.16	23.85
		75	0	23.86	24.15	23.72
15M	64QAM	1	0	23.78	23.98	23.66
		1	37	23.59	23.91	23.55
		1	74	23.55	23.82	23.51
		36	0	23.03	23.28	22.97
		36	19	22.99	23.24	22.96
		36	39	22.88	23.14	22.82
		75	0	22.82	23.16	22.77
15M	256QAM	1	0	20.41	20.46	20.25
		1	37	20.18	20.39	20.30
		1	74	20.17	20.20	20.00
		36	0	19.47	20.11	19.76
		36	19	19.75	19.71	19.62
		36	39	19.61	19.74	19.22
		75	0	19.63	19.72	19.42

LTE Band 41 (Power Class 2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	25.73	26.05	25.68
		1	24	25.64	25.83	25.47
		1	49	25.58	25.87	25.53
		25	0	25.02	25.37	24.95
		25	12	25.04	25.23	24.96
		25	25	24.89	25.19	24.79
		50	0	24.85	25.15	24.82
10M	16QAM	1	0	24.79	25.01	24.66
		1	24	24.56	24.85	24.51
		1	49	24.55	24.85	24.52
		25	0	24.04	24.35	23.94
		25	12	24.03	24.26	23.89
		25	25	23.90	24.15	23.78
		50	0	23.83	24.06	23.77
10M	64QAM	1	0	23.75	24.00	23.68
		1	24	23.61	23.89	23.57
		1	49	23.57	23.79	23.53
		25	0	23.09	23.33	22.95
		25	12	22.98	23.28	22.94
		25	25	22.95	23.13	22.82
		50	0	22.83	23.10	22.81
10M	256QAM	1	0	20.24	20.45	20.32
		1	24	20.10	20.42	19.91
		1	49	19.97	20.48	20.07
		25	0	19.42	19.81	19.75
		25	12	19.44	19.65	19.36
		25	25	19.59	19.74	19.20
		50	0	19.35	19.97	19.25

LTE Band 41 (Power Class 2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	25.80	26.08	25.64
		1	12	25.63	25.89	25.55
		1	24	25.59	25.80	25.50
		12	0	25.05	25.28	24.96
		12	6	24.98	25.30	24.97
		12	13	24.85	25.16	24.86
		25	0	24.85	25.08	24.72
5M	16QAM	1	0	24.72	25.08	24.67
		1	12	24.58	24.81	24.54
		1	24	24.61	24.82	24.46
		12	0	24.02	24.34	23.97
		12	6	23.99	24.25	23.92
		12	13	23.90	24.21	23.87
		25	0	23.84	24.09	23.79
5M	64QAM	1	0	23.71	24.05	23.60
		1	12	23.61	23.90	23.50
		1	24	23.59	23.81	23.47
		12	0	23.08	23.33	23.03
		12	6	23.02	23.31	22.90
		12	13	22.95	23.18	22.81
		25	0	22.82	23.06	22.78
5M	256QAM	1	0	20.23	20.44	20.33
		1	12	19.99	20.39	19.91
		1	24	20.23	20.36	20.25
		12	0	19.47	19.80	19.66
		12	6	19.81	20.02	19.70
		12	13	19.40	19.68	19.46
		25	0	19.58	19.68	19.10

LTE Band 41 (Power Class 3)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	24.99	25.22	25.02
		1	50	24.68	24.96	24.76
		1	99	24.53	24.78	24.58
		50	0	24.00	24.29	24.09
		50	25	23.95	24.21	24.01
		50	50	23.94	24.14	23.94
		100	0	23.83	24.11	23.91
20M	16QAM	1	0	24.04	24.24	24.04
		1	50	23.92	24.19	23.99
		1	99	23.90	24.15	23.95
		50	0	23.01	23.25	23.05
		50	25	22.93	23.21	23.01
		50	50	22.91	23.16	22.96
		100	0	22.87	23.13	22.93
20M	64QAM	1	0	23.00	23.30	23.10
		1	50	23.07	23.29	23.09
		1	99	22.95	23.16	22.96
		50	0	22.06	22.31	22.11
		50	25	22.01	22.29	22.09
		50	50	22.02	22.23	22.03
		100	0	21.90	22.20	22.00
20M	256QAM	1	0	19.54	19.64	19.77
		1	50	19.06	19.66	19.31
		1	99	19.24	19.28	19.29
		50	0	18.52	18.95	18.61
		50	25	18.73	19.02	18.71
		50	50	18.77	18.54	18.77
		100	0	18.77	18.94	18.72

LTE Band 41 (Power Class 3)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	24.92	25.12	25.00
		1	37	24.63	24.94	24.73
		1	74	24.52	24.70	24.51
		36	0	23.91	24.26	23.99
		36	19	23.95	24.17	24.00
		36	39	23.93	24.08	23.90
		75	0	23.77	24.05	23.86
15M	16QAM	1	0	23.94	24.22	24.00
		1	37	23.90	24.16	23.68
		1	74	23.88	24.06	23.51
		36	0	23.00	23.16	23.06
		36	19	22.93	23.11	22.96
		36	39	22.81	23.16	22.92
		75	0	22.85	23.04	22.82
15M	64QAM	1	0	22.99	23.21	23.01
		1	37	23.05	23.19	22.67
		1	74	22.90	23.06	22.53
		36	0	22.06	22.23	22.08
		36	19	21.91	22.24	21.97
		36	39	21.92	22.16	21.85
		75	0	21.81	22.15	21.91
15M	256QAM	1	0	19.67	19.57	19.68
		1	37	19.01	19.57	19.11
		1	74	19.15	19.40	18.95
		36	0	18.72	19.07	18.58
		36	19	18.64	18.76	18.59
		36	39	18.68	18.65	18.59
		75	0	18.67	18.54	18.53

LTE Band 41 (Power Class 3)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	24.94	25.12	24.87
		1	24	24.59	24.90	24.64
		1	49	24.53	24.76	24.55
		25	0	23.92	24.17	23.99
		25	12	23.79	24.04	23.95
		25	25	23.79	24.07	23.87
		50	0	23.67	24.06	23.82
10M	16QAM	1	0	23.91	24.09	23.91
		1	24	23.60	23.83	23.67
		1	49	23.47	23.77	23.56
		25	0	22.94	23.11	22.94
		25	12	22.80	23.12	22.96
		25	25	22.83	23.05	22.81
		50	0	22.66	23.02	22.86
10M	64QAM	1	0	22.92	23.10	22.83
		1	24	22.63	22.87	22.71
		1	49	22.53	22.76	22.49
		25	0	21.93	22.15	22.02
		25	12	21.82	22.09	21.94
		25	25	21.83	22.06	21.81
		50	0	21.69	21.99	21.83
10M	256QAM	1	0	19.49	19.69	19.35
		1	24	19.07	19.43	19.27
		1	49	19.31	19.17	19.38
		25	0	18.62	18.83	18.77
		25	12	18.53	18.51	18.78
		25	25	18.53	18.83	18.73
		50	0	18.68	18.72	18.74

LTE Band 41 (Power Class 3)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	24.88	25.15	24.87
		1	12	24.54	24.81	24.70
		1	24	24.36	24.68	24.49
		12	0	23.99	24.16	23.98
		12	6	23.89	24.08	23.85
		12	13	23.81	24.05	23.83
		25	0	23.68	23.98	23.78
5M	16QAM	1	0	23.91	24.22	23.91
		1	12	23.52	23.87	23.75
		1	24	23.44	23.68	23.49
		12	0	22.89	23.17	22.90
		12	6	22.93	23.10	22.93
		12	13	22.81	23.09	22.83
		25	0	22.75	22.98	22.75
5M	64QAM	1	0	22.86	23.13	22.83
		1	12	22.56	22.80	22.74
		1	24	22.36	22.70	22.43
		12	0	21.96	22.20	21.93
		12	6	21.86	22.04	21.86
		12	13	21.81	22.09	21.78
		25	0	21.66	21.99	21.76
5M	256QAM	1	0	19.26	19.62	19.52
		1	12	19.22	19.51	19.30
		1	24	18.87	19.43	19.17
		12	0	18.82	18.60	18.74
		12	6	18.53	18.62	18.77
		12	13	18.79	18.79	18.61
		25	0	18.72	18.68	18.52

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	23.40	23.88	23.99
		1	50	23.35	23.76	23.97
		1	99	22.99	23.40	23.61
		50	0	22.59	22.78	22.99
		50	25	22.58	22.77	22.98
		50	50	22.55	22.74	22.95
		100	0	22.57	22.76	22.97
20M	16QAM	1	0	22.84	22.82	22.81
		1	50	22.78	22.69	22.84
		1	99	22.74	22.76	22.80
		50	0	21.63	21.82	21.77
		50	25	21.61	21.80	21.80
		50	50	21.57	21.76	21.72
		100	0	21.60	21.79	21.76
20M	64QAM	1	0	21.52	21.93	21.98
		1	50	21.49	21.90	21.92
		1	99	21.26	21.67	21.88
		50	0	20.68	20.99	20.85
		50	25	20.64	20.95	20.89
		50	50	20.56	20.97	20.92
		100	0	20.63	20.94	20.95
20M	256QAM	1	0	17.86	18.38	18.75
		1	50	18.00	18.47	18.61
		1	99	17.60	17.91	18.26
		50	0	17.18	17.32	17.83
		50	25	17.13	17.41	17.75
		50	50	17.05	17.44	17.51
		100	0	17.32	17.42	17.40

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	23.38	23.79	23.98
		1	37	23.33	23.67	23.94
		1	74	22.93	23.36	23.52
		36	0	22.55	22.70	22.98
		36	19	22.54	22.72	22.92
		36	39	22.45	22.64	22.92
		75	0	22.49	22.69	22.87
15M	16QAM	1	0	22.76	22.77	22.73
		1	37	22.75	22.61	22.83
		1	74	22.65	22.66	22.73
		36	0	21.58	21.76	21.77
		36	19	21.60	21.73	21.74
		36	39	21.50	21.74	21.68
		75	0	21.55	21.79	21.74
15M	64QAM	1	0	21.44	21.92	21.97
		1	37	21.44	21.80	21.85
		1	74	21.17	21.65	21.85
		36	0	20.67	20.91	20.75
		36	19	20.58	20.87	20.82
		36	39	20.54	20.94	20.88
		75	0	20.60	20.91	20.93
15M	256QAM	1	0	17.94	18.39	18.64
		1	37	17.84	18.43	18.63
		1	74	17.75	18.15	18.12
		36	0	17.10	17.16	17.47
		36	19	17.16	17.15	17.58
		36	39	17.19	17.28	17.48
		75	0	17.24	17.44	17.60

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	23.24	23.73	23.84
		1	24	23.20	23.69	23.76
		1	49	22.83	23.31	23.43
		25	0	22.49	22.66	22.94
		25	12	22.57	22.60	22.87
		25	25	22.43	22.67	22.86
		50	0	22.49	22.60	22.87
10M	16QAM	1	0	22.68	22.71	22.69
		1	24	22.66	22.50	22.67
		1	49	22.56	22.54	22.57
		25	0	21.43	21.73	21.65
		25	12	21.45	21.59	21.70
		25	25	21.44	21.63	21.57
		50	0	21.49	21.69	21.64
10M	64QAM	1	0	21.39	21.74	21.82
		1	24	21.39	21.77	21.88
		1	49	21.04	21.45	21.82
		25	0	20.58	20.90	20.76
		25	12	20.58	20.81	20.79
		25	25	20.48	20.90	20.80
		50	0	20.50	20.78	20.78
10M	256QAM	1	0	17.91	18.37	18.67
		1	24	17.99	18.22	18.21
		1	49	17.42	18.08	17.84
		25	0	17.06	17.16	17.41
		25	12	17.41	17.19	17.41
		25	25	17.03	17.13	17.63
		50	0	17.29	17.13	17.69

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	23.39	23.81	23.77
		1	12	23.34	23.67	23.81
		1	24	22.78	23.19	23.32
		12	0	22.42	22.59	22.72
		12	6	22.44	22.71	22.90
		12	13	22.41	22.51	22.65
		25	0	22.46	22.58	22.66
5M	16QAM	1	0	22.67	22.68	22.68
		1	12	22.59	22.57	22.83
		1	24	22.52	22.58	22.75
		12	0	21.52	21.69	21.65
		12	6	21.38	21.78	21.67
		12	13	21.39	21.65	21.59
		25	0	21.46	21.69	21.61
5M	64QAM	1	0	21.34	21.73	21.85
		1	12	21.38	21.78	21.78
		1	24	21.26	21.58	21.73
		12	0	20.58	20.77	20.73
		12	6	20.44	20.91	20.74
		12	13	20.46	20.74	20.76
		25	0	20.56	20.84	20.86
5M	256QAM	1	0	17.99	18.36	18.56
		1	12	18.11	18.27	18.43
		1	24	17.53	17.68	18.13
		12	0	17.02	17.34	17.17
		12	6	17.09	17.23	17.51
		12	13	17.01	17.26	17.13
		25	0	17.08	17.29	17.48

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	23.25	23.74	23.84
		1	7	23.17	23.66	23.82
		1	14	22.77	23.25	23.42
		8	0	22.39	22.61	22.87
		8	3	22.47	22.59	22.82
		8	7	22.44	22.56	22.74
		15	0	22.37	22.63	22.87
3M	16QAM	1	0	22.76	22.58	22.72
		1	7	22.66	22.52	22.80
		1	14	22.59	22.69	22.76
		8	0	21.44	21.71	21.73
		8	3	21.44	21.63	21.73
		8	7	21.46	21.64	21.68
		15	0	21.53	21.59	21.59
3M	64QAM	1	0	21.49	21.87	21.91
		1	7	21.36	21.79	21.73
		1	14	21.12	21.59	21.81
		8	0	20.61	20.88	20.75
		8	3	20.55	20.92	20.70
		8	7	20.45	20.83	20.83
		15	0	20.50	20.81	20.75
3M	256QAM	1	0	17.95	18.15	18.29
		1	7	17.89	18.40	18.58
		1	14	17.57	17.72	17.88
		8	0	17.15	17.29	17.44
		8	3	17.04	17.27	17.27
		8	7	17.18	17.27	17.31
		15	0	17.12	17.25	17.30

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	23.24	23.65	23.88
		1	2	23.20	23.63	23.94
		1	5	22.89	23.25	23.54
		3	0	23.44	23.70	23.95
		3	1	23.52	23.66	23.84
		3	3	23.50	23.57	23.83
		6	0	22.48	22.60	22.81
1.4M	16QAM	1	0	22.63	22.63	22.70
		1	2	22.61	22.55	22.61
		1	5	22.56	22.61	22.69
		3	0	22.47	22.72	22.61
		3	1	22.50	22.67	22.65
		3	3	22.41	22.61	22.61
		6	0	21.47	21.64	21.67
1.4M	64QAM	1	0	21.39	21.86	21.85
		1	2	21.38	21.85	21.82
		1	5	21.15	21.55	21.70
		3	0	21.59	21.88	21.62
		3	1	21.44	21.78	21.86
		3	3	21.41	21.87	21.75
		6	0	20.53	20.87	20.84
1.4M	256QAM	1	0	17.82	18.13	18.38
		1	2	17.90	18.16	18.41
		1	5	17.50	17.79	18.35
		3	0	18.18	18.18	18.59
		3	1	18.14	18.45	18.60
		3	3	18.27	18.26	18.23
		6	0	17.21	17.44	17.35

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	24.99	24.96	24.97
		1	50	24.91	24.88	24.89
		1	99	24.89	24.86	24.87
		50	0	23.91	23.88	23.89
		50	25	23.89	23.86	23.87
		50	50	23.84	23.81	23.82
		100	0	23.94	23.91	23.92
20M	16QAM	1	0	23.96	23.89	23.91
		1	50	23.85	23.85	23.81
		1	99	23.79	23.77	23.77
		50	0	22.87	22.80	22.86
		50	25	22.88	22.81	22.77
		50	50	22.78	22.72	22.73
		100	0	22.90	22.87	22.89
20M	64QAM	1	0	22.94	22.95	22.94
		1	50	22.87	22.84	22.84
		1	99	22.85	22.83	22.84
		50	0	21.85	21.83	21.85
		50	25	21.89	21.83	21.82
		50	50	21.80	21.78	21.75
		100	0	21.85	21.84	21.92
20M	256QAM	1	0	19.59	19.36	19.72
		1	50	19.46	19.41	19.29
		1	99	19.49	19.36	19.40
		50	0	18.48	18.67	18.44
		50	25	18.48	18.38	18.44
		50	50	18.46	18.43	18.30
		100	0	18.51	18.69	18.35

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	24.98	24.96	24.97
		1	37	24.90	24.88	24.87
		1	74	24.83	24.78	24.77
		36	0	23.87	23.79	23.86
		36	19	23.88	23.82	23.80
		36	39	23.80	23.77	23.79
		75	0	23.85	23.84	23.83
15M	16QAM	1	0	23.87	23.86	23.83
		1	37	23.75	23.80	23.77
		1	74	23.76	23.76	23.77
		36	0	22.82	22.71	22.84
		36	19	22.81	22.72	22.67
		36	39	22.75	22.69	22.69
		75	0	22.82	22.77	22.79
15M	64QAM	1	0	22.94	22.91	22.85
		1	37	22.83	22.78	22.74
		1	74	22.76	22.76	22.79
		36	0	21.75	21.76	21.82
		36	19	21.82	21.76	21.78
		36	39	21.79	21.69	21.65
		75	0	21.79	21.74	21.87
15M	256QAM	1	0	19.73	19.69	19.57
		1	37	19.30	19.41	19.67
		1	74	19.53	19.36	19.18
		36	0	18.42	18.24	18.65
		36	19	18.71	18.49	18.40
		36	39	18.63	18.48	18.55
		75	0	18.54	18.29	18.31

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	24.98	24.94	24.93
		1	24	24.91	24.78	24.80
		1	49	24.81	24.81	24.84
		25	0	23.82	23.88	23.82
		25	12	23.84	23.85	23.81
		25	25	23.80	23.75	23.75
		50	0	23.88	23.84	23.82
10M	16QAM	1	0	23.91	23.84	23.86
		1	24	23.82	23.77	23.73
		1	49	23.69	23.69	23.71
		25	0	22.81	22.80	22.85
		25	12	22.84	22.77	22.71
		25	25	22.70	22.72	22.67
		50	0	22.85	22.79	22.82
10M	64QAM	1	0	22.85	22.86	22.86
		1	24	22.86	22.82	22.75
		1	49	22.81	22.79	22.76
		25	0	21.79	21.76	21.85
		25	12	21.79	21.82	21.72
		25	25	21.71	21.68	21.65
		50	0	21.76	21.80	21.86
10M	256QAM	1	0	19.68	19.39	19.31
		1	24	19.74	19.58	19.23
		1	49	19.34	19.61	19.59
		25	0	18.27	18.62	18.44
		25	12	18.53	18.64	18.64
		25	25	18.47	18.39	18.56
		50	0	18.69	18.63	18.30

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	24.90	24.96	24.97
		1	12	24.86	24.88	24.87
		1	24	24.88	24.83	24.85
		12	0	23.91	23.81	23.87
		12	6	23.86	23.85	23.82
		12	13	23.81	23.73	23.79
		25	0	23.94	23.83	23.89
5M	16QAM	1	0	23.89	23.87	23.88
		1	12	23.85	23.84	23.74
		1	24	23.79	23.72	23.77
		12	0	22.77	22.74	22.79
		12	6	22.87	22.81	22.70
		12	13	22.72	22.62	22.68
		25	0	22.82	22.80	22.89
5M	64QAM	1	0	22.92	22.87	22.86
		1	12	22.80	22.84	22.79
		1	24	22.75	22.82	22.75
		12	0	21.81	21.75	21.80
		12	6	21.87	21.78	21.75
		12	13	21.74	21.76	21.74
		25	0	21.83	21.79	21.87
5M	256QAM	1	0	19.35	19.59	19.50
		1	12	19.26	19.71	19.62
		1	24	19.43	19.43	19.50
		12	0	18.60	18.36	18.56
		12	6	18.45	18.35	18.53
		12	13	18.24	18.35	18.53
		25	0	18.65	18.59	18.39

EIRP / ERP Power (dBm, dBm/5MHz for LTE Band 30 and LTE Band 40 only)

Band	WCDMA IV		
	1312	1413	1513
TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	20.10	19.98	20.05
HSDPA Subtest-1	19.35	19.23	19.29
HSDPA Subtest-2	19.38	19.26	19.32
HSDPA Subtest-3	18.86	18.74	18.80
HSDPA Subtest-4	18.92	18.80	18.86
DC-HSDPA Subtest-1	19.49	19.37	19.43
DC-HSDPA Subtest-2	19.52	19.40	19.46
DC-HSDPA Subtest-3	19.00	18.88	18.94
DC-HSDPA Subtest-4	19.06	18.94	19.00
HSUPA Subtest-1	19.47	19.35	19.41
HSUPA Subtest-2	17.54	17.42	17.48
HSUPA Subtest-3	18.28	18.16	18.22
HSUPA Subtest-4	17.51	17.39	17.45
HSUPA Subtest-5	19.46	19.34	19.40

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	22.12	22.16	22.28
		1	50	22.03	22.07	22.28
		1	99	21.98	22.02	22.23
		50	0	21.17	21.21	21.28
		50	25	21.11	21.15	21.22
		50	50	21.09	21.13	21.20
		100	0	21.08	21.12	21.19
20M	16QAM	1	0	21.17	21.21	21.17
		1	50	21.12	21.16	21.27
		1	99	21.11	21.15	21.25
		50	0	20.17	20.21	20.23
		50	25	20.13	20.17	20.25
		50	50	20.12	20.16	20.14
		100	0	20.10	20.14	20.28
20M	64QAM	1	0	20.23	20.27	20.26
		1	50	20.20	20.24	20.23
		1	99	20.13	20.17	20.23
		50	0	19.20	19.24	19.25
		50	25	19.17	19.21	19.27
		50	50	19.16	19.20	19.26
		100	0	19.14	19.18	19.24
20M	256QAM	1	0	16.74	16.56	16.68
		1	50	16.67	16.90	16.73
		1	99	16.44	16.85	16.70
		50	0	15.92	15.93	16.00
		50	25	15.70	15.83	15.94
		50	50	15.73	15.65	16.04
		100	0	15.78	15.94	15.96

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	22.11	22.10	22.24
		1	37	22.00	22.01	22.22
		1	74	21.94	21.96	22.20
		36	0	21.08	21.17	21.22
		36	19	21.09	21.07	21.13
		36	39	21.07	21.05	21.18
		75	0	20.98	21.02	21.15
15M	16QAM	1	0	21.16	21.14	21.14
		1	37	21.08	21.15	21.25
		1	74	21.06	21.15	21.24
		36	0	20.07	20.17	20.13
		36	19	20.11	20.14	20.23
		36	39	20.04	20.16	20.13
		75	0	20.00	20.13	20.26
15M	64QAM	1	0	20.18	20.18	20.16
		1	37	20.15	20.22	20.14
		1	74	20.08	20.14	20.15
		36	0	19.20	19.14	19.16
		36	19	19.12	19.15	19.23
		36	39	19.09	19.11	19.20
		75	0	19.13	19.18	19.22
15M	256QAM	1	0	16.90	16.86	16.95
		1	37	16.48	16.61	17.03
		1	74	16.51	16.58	16.60
		36	0	15.53	15.85	15.76
		36	19	15.93	15.91	15.79
		36	39	15.80	15.64	15.75
		75	0	15.55	15.66	15.76

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	21.91	22.01	22.09
		1	24	21.95	22.01	22.21
		1	49	21.82	21.89	22.09
		25	0	21.00	21.08	21.11
		25	12	20.96	20.94	21.15
		25	25	20.93	20.92	21.09
		50	0	20.99	21.05	21.00
10M	16QAM	1	0	21.06	21.10	21.06
		1	24	20.89	21.05	21.14
		1	49	21.02	20.97	21.09
		25	0	20.14	20.06	20.11
		25	12	20.03	20.16	20.13
		25	25	20.03	20.05	20.01
		50	0	19.94	19.91	20.21
10M	64QAM	1	0	20.09	20.12	20.14
		1	24	20.08	20.12	20.08
		1	49	20.00	20.13	19.99
		25	0	19.10	19.21	19.06
		25	12	19.00	19.04	19.26
		25	25	19.07	19.11	19.11
		50	0	19.00	19.10	19.22
10M	256QAM	1	0	16.53	16.65	16.83
		1	24	16.52	16.65	16.83
		1	49	16.51	16.70	16.92
		25	0	15.75	15.56	15.65
		25	12	15.80	15.53	15.69
		25	25	15.45	15.58	15.77
		50	0	15.81	15.82	15.61

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	22.08	21.99	21.98
		1	12	21.84	21.98	22.14
		1	24	21.92	21.82	22.21
		12	0	20.94	21.05	21.10
		12	6	21.08	20.99	21.05
		12	13	20.88	20.93	21.00
		25	0	20.89	21.03	21.00
5M	16QAM	1	0	21.05	21.17	20.96
		1	12	21.02	21.01	21.20
		1	24	21.05	21.00	21.17
		12	0	19.99	20.16	20.12
		12	6	19.99	20.09	20.24
		12	13	19.97	20.06	20.01
		25	0	19.98	19.99	20.16
5M	64QAM	1	0	20.17	20.14	20.14
		1	12	19.99	20.17	20.17
		1	24	20.07	20.11	20.11
		12	0	19.13	19.03	19.17
		12	6	19.02	19.08	19.04
		12	13	19.05	19.05	19.17
		25	0	18.99	18.99	19.15
5M	256QAM	1	0	16.65	16.52	16.44
		1	12	16.25	16.79	16.71
		1	24	16.64	16.61	16.64
		12	0	15.62	15.53	15.87
		12	6	15.51	15.76	15.50
		12	13	15.47	15.64	15.73
		25	0	15.48	15.62	15.80

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	21.92	22.10	22.19
		1	7	21.92	21.95	22.12
		1	14	21.93	21.99	22.07
		8	0	20.99	21.13	21.11
		8	3	20.98	20.94	21.17
		8	7	21.01	21.10	21.15
		15	0	20.96	20.97	21.16
3M	16QAM	1	0	21.02	21.19	21.09
		1	7	20.90	20.98	21.19
		1	14	20.99	21.12	21.05
		8	0	20.12	20.14	19.99
		8	3	20.06	20.12	20.24
		8	7	20.07	20.00	20.05
		15	0	20.03	20.14	20.19
3M	64QAM	1	0	20.15	20.18	20.13
		1	7	20.20	20.06	20.05
		1	14	20.04	20.10	20.06
		8	0	19.06	19.16	19.17
		8	3	19.02	19.13	19.13
		8	7	19.03	19.07	19.12
		15	0	19.05	19.06	19.08
3M	256QAM	1	0	16.54	16.89	16.71
		1	7	16.64	16.60	16.88
		1	14	16.58	16.82	16.76
		8	0	15.65	15.56	15.63
		8	3	15.71	15.37	15.60
		8	7	15.76	15.67	15.65
		15	0	15.39	15.79	15.82

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	21.98	21.93	22.11
		1	2	21.92	21.98	22.22
		1	5	21.79	21.81	21.99
		3	0	21.95	22.11	22.23
		3	1	21.95	22.13	21.99
		3	3	22.01	21.96	22.06
		6	0	21.01	20.98	21.03
1.4M	16QAM	1	0	21.04	21.05	21.02
		1	2	20.95	21.04	21.11
		1	5	20.98	21.02	21.04
		3	0	20.94	21.09	21.02
		3	1	20.98	21.12	21.19
		3	3	20.98	21.00	21.03
		6	0	20.05	20.00	20.22
1.4M	64QAM	1	0	19.99	20.17	20.16
		1	2	20.11	20.13	20.09
		1	5	19.96	19.97	20.09
		3	0	20.07	20.07	20.14
		3	1	20.07	20.19	20.20
		3	3	20.08	20.06	20.19
		6	0	19.07	19.03	19.13
1.4M	256QAM	1	0	16.62	16.34	16.68
		1	2	16.71	16.39	16.91
		1	5	16.32	16.60	16.80
		3	0	16.48	16.56	16.73
		3	1	16.45	16.72	16.78
		3	3	16.46	16.53	16.87
		6	0	15.62	15.50	15.64

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20850	21100	21350
		Frequency (MHz)		2510	2535	2560
20M	QPSK	1	0	23.80	23.74	23.97
		1	50	23.65	23.59	23.82
		1	99	23.58	23.52	23.75
		50	0	22.86	22.80	23.03
		50	25	22.82	22.76	22.99
		50	50	22.77	22.71	22.94
		100	0	22.84	22.78	23.01
20M	16QAM	1	0	22.95	22.83	23.12
		1	50	22.52	22.46	22.69
		1	99	22.47	22.41	22.64
		50	0	21.86	21.80	22.03
		50	25	21.82	21.76	21.99
		50	50	21.80	21.74	21.97
		100	0	21.83	21.77	22.00
20M	64QAM	1	0	21.86	21.80	22.03
		1	50	21.85	21.79	22.02
		1	99	21.55	21.49	21.72
		50	0	20.85	20.79	21.02
		50	25	20.84	20.78	21.01
		50	50	20.64	20.58	20.81
		100	0	20.83	20.77	21.00
20M	256QAM	1	0	18.59	18.50	18.49
		1	50	18.16	18.19	18.25
		1	99	18.42	18.10	18.40
		50	0	17.54	17.30	17.76
		50	25	17.32	17.53	17.81
		50	50	17.52	17.37	17.37
		100	0	17.41	17.55	17.58

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20825	21100	21375
		Frequency (MHz)		2507.5	2535	2562.5
15M	QPSK	1	0	23.75	23.64	23.89
		1	37	23.56	23.56	23.74
		1	74	23.50	23.49	23.73
		36	0	22.77	22.78	23.03
		36	19	22.81	22.74	22.90
		36	39	22.77	22.63	22.84
		75	0	22.78	22.77	22.94
15M	16QAM	1	0	22.86	22.75	23.12
		1	37	22.47	22.40	22.60
		1	74	22.38	22.33	22.59
		36	0	21.83	21.74	21.96
		36	19	21.72	21.68	21.94
		36	39	21.75	21.69	21.91
		75	0	21.78	21.71	21.98
15M	64QAM	1	0	21.86	21.75	22.00
		1	37	21.78	21.75	21.96
		1	74	21.47	21.48	21.65
		36	0	20.83	20.69	20.93
		36	19	20.76	20.78	20.96
		36	39	20.60	20.51	20.77
		75	0	20.83	20.67	20.94
15M	256QAM	1	0	18.16	18.26	18.68
		1	37	18.26	18.23	18.34
		1	74	18.06	18.21	18.14
		36	0	17.41	17.42	17.57
		36	19	17.45	17.38	17.49
		36	39	17.41	17.34	17.55
		75	0	17.33	17.41	17.44

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20800	21100	21400
		Frequency (MHz)		2505	2535	2565
10M	QPSK	1	0	23.71	23.59	23.91
		1	24	23.58	23.38	23.57
		1	49	23.57	23.40	23.60
		25	0	22.72	22.69	22.95
		25	12	22.71	22.65	22.81
		25	25	22.53	22.49	22.74
		50	0	22.69	22.64	22.89
10M	16QAM	1	0	22.87	22.72	23.03
		1	24	22.39	22.29	22.66
		1	49	22.32	22.30	22.44
		25	0	21.64	21.69	21.98
		25	12	21.78	21.58	21.82
		25	25	21.74	21.53	21.75
		50	0	21.80	21.66	21.84
10M	64QAM	1	0	21.64	21.64	21.96
		1	24	21.66	21.64	21.89
		1	49	21.36	21.43	21.55
		25	0	20.85	20.65	20.96
		25	12	20.77	20.72	20.91
		25	25	20.54	20.50	20.73
		50	0	20.65	20.60	20.80
10M	256QAM	1	0	18.36	18.10	18.32
		1	24	18.39	17.92	18.15
		1	49	18.17	18.24	18.01
		25	0	17.26	17.26	17.68
		25	12	17.48	17.29	17.61
		25	25	17.28	17.33	17.42
		50	0	17.27	17.33	17.69

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20775	21100	21425
		Frequency (MHz)		2502.5	2535	2567.5
5M	QPSK	1	0	23.66	23.53	23.70
		1	12	23.51	23.51	23.70
		1	24	23.42	23.31	23.61
		12	0	22.69	22.65	22.91
		12	6	22.64	22.51	22.70
		12	13	22.59	22.57	22.68
		25	0	22.76	22.75	22.77
5M	16QAM	1	0	22.86	22.71	23.00
		1	12	22.44	22.38	22.59
		1	24	22.31	22.31	22.57
		12	0	21.66	21.72	21.83
		12	6	21.59	21.63	21.85
		12	13	21.65	21.60	21.84
		25	0	21.64	21.63	21.90
5M	64QAM	1	0	21.74	21.71	22.00
		1	12	21.78	21.75	21.86
		1	24	21.45	21.41	21.58
		12	0	20.74	20.69	20.89
		12	6	20.78	20.54	20.84
		12	13	20.56	20.52	20.72
		25	0	20.64	20.56	20.98
5M	256QAM	1	0	18.40	18.09	18.21
		1	12	17.97	18.07	18.14
		1	24	18.16	17.89	18.38
		12	0	17.47	17.31	17.46
		12	6	17.22	17.29	17.38
		12	13	17.30	17.35	17.39
		25	0	17.29	17.43	17.30

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	20.60	20.39	20.34
		1	24	20.59	20.38	20.32
		1	49	20.51	20.30	20.24
		25	0	19.57	19.36	19.30
		25	12	19.54	19.33	19.27
		25	25	19.53	19.32	19.26
		50	0	19.57	19.36	19.30
10M	16QAM	1	0	19.56	19.35	19.29
		1	24	19.46	19.25	19.19
		1	49	19.45	19.24	19.18
		25	0	18.69	18.40	18.31
		25	12	18.68	18.35	18.28
		25	25	18.71	18.42	18.31
		50	0	18.67	18.32	18.32
10M	64QAM	1	0	18.63	18.34	18.31
		1	24	18.68	18.26	18.27
		1	49	18.21	18.00	17.94
		25	0	17.42	17.21	17.15
		25	12	17.36	17.15	17.09
		25	25	17.28	17.07	17.01
		50	0	17.38	17.17	17.11
10M	256QAM	1	0	15.43	15.04	14.80
		1	24	15.39	14.76	15.12
		1	49	15.01	14.81	14.92
		25	0	14.07	13.89	13.76
		25	12	14.35	14.14	13.94
		25	25	14.15	14.11	14.07
		50	0	14.12	14.08	13.90

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	20.50	20.31	20.33
		1	12	20.51	20.33	20.28
		1	24	20.41	20.29	20.20
		12	0	19.48	19.31	19.27
		12	6	19.52	19.25	19.23
		12	13	19.52	19.25	19.18
		25	0	19.50	19.36	19.26
5M	16QAM	1	0	19.51	19.35	19.20
		1	12	19.44	19.15	19.14
		1	24	19.40	19.19	19.09
		12	0	18.69	18.39	18.23
		12	6	18.59	18.29	18.27
		12	13	18.63	18.39	18.24
		25	0	18.64	18.24	18.22
5M	64QAM	1	0	18.63	18.27	18.25
		1	12	18.68	18.26	18.17
		1	24	18.13	17.91	17.90
		12	0	17.41	17.15	17.14
		12	6	17.35	17.05	17.06
		12	13	17.26	17.04	16.97
		25	0	17.34	17.10	17.08
5M	256QAM	1	0	15.33	15.06	15.16
		1	12	14.92	15.16	14.67
		1	24	14.79	14.68	14.93
		12	0	14.22	13.79	13.80
		12	6	13.95	13.97	13.87
		12	13	14.12	13.87	13.80
		25	0	14.21	14.05	13.74

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	20.51	20.20	20.26
		1	7	20.53	20.22	20.12
		1	14	20.35	20.20	20.10
		8	0	19.39	19.17	19.24
		8	3	19.48	19.16	19.14
		8	7	19.47	19.18	19.07
		15	0	19.49	19.15	19.19
3M	16QAM	1	0	19.39	19.25	19.09
		1	7	19.33	19.15	19.09
		1	14	19.28	19.04	18.96
		8	0	18.59	18.16	18.18
		8	3	18.58	18.23	18.09
		8	7	18.57	18.32	18.26
		15	0	18.61	18.15	18.22
3M	64QAM	1	0	18.58	18.13	18.20
		1	7	18.56	18.11	18.07
		1	14	18.12	17.89	17.80
		8	0	17.24	17.05	17.11
		8	3	17.18	16.99	16.89
		8	7	17.14	16.99	16.85
		15	0	17.29	16.97	16.97
3M	256QAM	1	0	15.34	14.93	15.01
		1	7	15.28	14.83	14.73
		1	14	14.86	14.91	14.71
		8	0	14.18	13.78	13.78
		8	3	14.15	14.00	13.87
		8	7	14.19	13.76	13.83
		15	0	14.04	13.83	13.80

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	20.44	20.20	20.18
		1	2	20.54	20.20	20.24
		1	5	20.30	20.25	20.06
		3	0	20.52	20.15	20.09
		3	1	20.49	20.23	20.18
		3	3	20.49	20.22	20.07
		6	0	19.36	19.20	19.29
1.4M	16QAM	1	0	19.54	19.30	19.15
		1	2	19.29	19.13	19.12
		1	5	19.21	19.13	19.02
		3	0	19.59	19.29	19.25
		3	1	19.52	19.21	19.23
		3	3	19.63	19.33	19.25
		6	0	18.45	18.19	18.19
1.4M	64QAM	1	0	18.48	18.14	18.21
		1	2	18.54	18.14	18.13
		1	5	18.15	17.98	17.78
		3	0	18.23	18.06	18.05
		3	1	18.27	17.99	17.95
		3	3	18.17	17.99	17.88
		6	0	17.25	16.97	16.96
1.4M	256QAM	1	0	15.17	15.00	14.67
		1	2	15.02	14.71	14.95
		1	5	14.96	14.96	14.65
		3	0	15.22	14.61	14.80
		3	1	15.32	14.96	14.79
		3	3	15.07	14.95	14.61
		6	0	14.01	13.99	13.82

LTE Band 13				
BW	MCS Index	RB Size	RB Offset	Low
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	18.41
		1	24	18.34
		1	49	18.32
		25	0	17.40
		25	12	17.30
		25	25	17.15
		50	0	17.32
10M	16QAM	1	0	17.42
		1	24	17.40
		1	49	17.34
		25	0	16.42
		25	12	16.35
		25	25	16.30
		50	0	16.42
10M	64QAM	1	0	16.37
		1	24	16.27
		1	49	16.18
		25	0	15.42
		25	12	15.07
		25	25	15.34
		50	0	15.27
10M	256QAM	1	0	13.21
		1	24	12.92
		1	49	13.05
		25	0	11.80
		25	12	11.78
		25	25	11.84
		50	0	11.91

LTE Band 13						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23205	23230	23255
		Frequency (MHz)		779.5	782	784.5
5M	QPSK	1	0	18.27	18.36	18.16
		1	12	18.16	18.34	18.12
		1	24	18.09	18.26	18.14
		12	0	17.16	17.40	17.15
		12	6	17.12	17.23	17.08
		12	13	17.19	17.09	17.16
		25	0	17.30	17.26	17.24
5M	16QAM	1	0	17.23	17.40	17.27
		1	12	17.12	17.40	17.07
		1	24	17.07	17.28	17.03
		12	0	16.33	16.33	16.25
		12	6	16.31	16.28	16.34
		12	13	16.29	16.29	16.21
		25	0	16.29	16.36	16.25
5M	64QAM	1	0	16.22	16.29	16.18
		1	12	16.26	16.27	16.21
		1	24	15.91	16.08	15.78
		12	0	15.00	15.36	14.89
		12	6	14.98	15.01	14.86
		12	13	14.98	15.24	14.95
		25	0	15.00	15.18	15.02
5M	256QAM	1	0	12.87	12.79	12.86
		1	12	12.96	13.04	12.90
		1	24	12.50	12.86	12.92
		12	0	11.71	11.85	11.65
		12	6	11.74	11.80	11.63
		12	13	11.95	11.90	11.95
		25	0	12.01	12.02	11.69

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	20.43	20.54	20.47
		1	24	20.40	20.51	20.39
		1	49	20.37	20.48	20.36
		25	0	19.45	19.56	19.44
		25	12	19.37	19.48	19.36
		25	25	19.34	19.45	19.33
		50	0	19.41	19.52	19.40
10M	16QAM	1	0	19.42	19.53	19.41
		1	24	19.39	19.50	19.38
		1	49	19.36	19.47	19.35
		25	0	18.43	18.54	18.42
		25	12	18.41	18.52	18.40
		25	25	18.37	18.48	18.36
		50	0	18.42	18.53	18.41
10M	64QAM	1	0	18.41	18.52	18.40
		1	24	18.33	18.44	18.32
		1	49	18.31	18.42	18.30
		25	0	17.39	17.50	17.38
		25	12	17.35	17.46	17.34
		25	25	17.08	17.19	17.07
		50	0	17.19	17.30	17.18
10M	256QAM	1	0	14.99	14.94	14.95
		1	24	15.13	15.21	14.92
		1	49	14.80	15.26	15.09
		25	0	13.86	13.99	14.27
		25	12	14.18	14.17	14.17
		25	25	13.91	14.09	13.74
		50	0	13.91	14.23	13.81

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	20.33	20.46	20.39
		1	12	20.38	20.49	20.34
		1	24	20.34	20.40	20.32
		12	0	19.35	19.52	19.44
		12	6	19.34	19.39	19.32
		12	13	19.29	19.36	19.28
		25	0	19.33	19.48	19.36
5M	16QAM	1	0	19.42	19.52	19.37
		1	12	19.35	19.42	19.33
		1	24	19.32	19.45	19.30
		12	0	18.34	18.44	18.41
		12	6	18.38	18.48	18.38
		12	13	18.37	18.47	18.27
		25	0	18.40	18.52	18.36
5M	64QAM	1	0	18.40	18.44	18.31
		1	12	18.30	18.44	18.24
		1	24	18.31	18.40	18.28
		12	0	17.39	17.50	17.29
		12	6	17.26	17.41	17.27
		12	13	17.03	17.12	17.06
		25	0	17.09	17.27	17.11
5M	256QAM	1	0	14.86	15.24	15.17
		1	12	14.76	15.09	15.00
		1	24	14.85	15.20	14.90
		12	0	14.00	14.00	13.87
		12	6	14.08	13.94	13.75
		12	13	13.94	13.77	13.93
		25	0	14.12	14.19	13.91

LTE Band 30				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		27710
		Frequency (MHz)		2310
10M	QPSK	1	0	22.03
		1	24	21.91
		1	49	21.86
		25	0	20.99
		25	12	20.96
		25	25	20.92
		50	0	20.94
10M	16QAM	1	0	21.05
		1	24	21.00
		1	49	20.97
		25	0	20.05
		25	12	19.96
		25	25	19.93
		50	0	19.96
10M	64QAM	1	0	20.04
		1	24	19.92
		1	49	19.87
		25	0	18.98
		25	12	18.97
		25	25	18.93
		50	0	18.94
10M	256QAM	1	0	16.56
		1	24	16.54
		1	49	16.30
		25	0	16.08
		25	12	15.92
		25	25	15.91
		50	0	15.96

LTE Band 30						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		27685	27710	27735
		Frequency (MHz)		2307.5	2310	2312.5
5M	QPSK	1	0	21.90	21.97	21.85
		1	12	21.75	21.90	21.74
		1	24	21.75	21.79	21.66
		12	0	20.87	20.92	20.88
		12	6	20.83	20.96	20.83
		12	13	20.84	20.87	20.77
		25	0	20.81	20.90	20.83
5M	16QAM	1	0	20.92	21.02	20.93
		1	12	20.93	20.90	20.87
		1	24	20.81	20.92	20.68
		12	0	19.92	20.01	19.87
		12	6	19.80	19.94	19.75
		12	13	19.87	19.87	19.84
		25	0	19.94	19.95	19.80
5M	64QAM	1	0	19.90	20.04	19.89
		1	12	19.78	19.92	19.73
		1	24	19.78	19.82	19.64
		12	0	18.79	18.88	18.77
		12	6	18.87	18.96	18.78
		12	13	18.83	18.84	18.71
		25	0	18.91	18.92	18.80
5M	256QAM	1	0	16.37	16.74	16.50
		1	12	16.47	16.37	16.49
		1	24	16.29	16.56	16.11
		12	0	15.74	16.12	16.08
		12	6	15.81	15.92	15.88
		12	13	16.06	15.94	15.82
		25	0	15.77	15.97	16.01

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37850	38000	38150
		Frequency (MHz)		2580	2595	2610
20M	QPSK	1	0	24.41	24.54	24.51
		1	50	24.20	24.41	24.38
		1	99	24.13	24.34	24.31
		50	0	23.34	23.55	23.52
		50	25	23.29	23.50	23.47
		50	50	23.23	23.44	23.41
		100	0	23.32	23.53	23.50
20M	16QAM	1	0	23.30	23.51	23.48
		1	50	23.28	23.49	23.46
		1	99	23.22	23.43	23.40
		50	0	22.33	22.54	22.51
		50	25	22.31	22.52	22.49
		50	50	22.28	22.49	22.46
		100	0	22.29	22.50	22.47
20M	64QAM	1	0	22.04	22.25	22.22
		1	50	22.02	22.23	22.20
		1	99	21.94	22.15	22.12
		50	0	21.34	21.55	21.52
		50	25	21.30	21.51	21.48
		50	50	21.29	21.50	21.47
		100	0	21.25	21.46	21.43
20M	256QAM	1	0	19.01	19.30	19.18
		1	50	19.01	19.22	19.03
		1	99	18.59	18.99	18.79
		50	0	17.93	17.98	18.00
		50	25	17.84	18.27	17.92
		50	50	17.78	18.28	18.16
		100	0	17.91	18.28	18.20

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37825	38000	38175
		Frequency (MHz)		2577.5	2595	2612.5
15M	QPSK	1	0	24.38	24.49	24.43
		1	37	24.15	24.31	24.28
		1	74	24.11	24.26	24.29
		36	0	23.26	23.54	23.50
		36	19	23.29	23.45	23.37
		36	39	23.20	23.41	23.31
		75	0	23.29	23.48	23.45
15M	16QAM	1	0	23.25	23.48	23.40
		1	37	23.23	23.47	23.39
		1	74	23.17	23.36	23.33
		36	0	22.30	22.52	22.44
		36	19	22.27	22.43	22.41
		36	39	22.23	22.49	22.40
		75	0	22.21	22.43	22.40
15M	64QAM	1	0	22.04	22.21	22.16
		1	37	22.00	22.18	22.10
		1	74	21.88	22.14	22.03
		36	0	21.31	21.49	21.48
		36	19	21.25	21.50	21.45
		36	39	21.26	21.41	21.41
		75	0	21.17	21.38	21.39
15M	256QAM	1	0	19.10	19.25	18.91
		1	37	18.63	19.07	19.07
		1	74	18.74	19.05	18.80
		36	0	17.79	18.38	18.14
		36	19	17.77	18.13	18.14
		36	39	17.95	18.05	17.88
		75	0	17.73	18.25	18.22

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37800	38000	38200
		Frequency (MHz)		2575	2595	2615
10M	QPSK	1	0	24.23	24.44	24.45
		1	24	24.11	24.33	24.26
		1	49	24.05	24.25	24.24
		25	0	23.19	23.38	23.50
		25	12	23.20	23.27	23.36
		25	25	23.09	23.28	23.28
		50	0	23.13	23.41	23.37
10M	16QAM	1	0	23.15	23.39	23.45
		1	24	23.15	23.31	23.36
		1	49	23.07	23.21	23.29
		25	0	22.30	22.35	22.38
		25	12	22.19	22.46	22.26
		25	25	22.05	22.35	22.35
		50	0	22.16	22.46	22.34
10M	64QAM	1	0	21.90	22.08	22.16
		1	24	21.93	22.12	22.13
		1	49	21.80	22.00	21.96
		25	0	21.16	21.45	21.37
		25	12	21.10	21.48	21.42
		25	25	21.21	21.48	21.45
		50	0	21.03	21.23	21.27
10M	256QAM	1	0	19.07	19.16	19.19
		1	24	18.64	19.00	18.91
		1	49	18.58	18.66	18.68
		25	0	17.79	18.18	18.00
		25	12	17.77	18.11	17.79
		25	25	17.85	18.01	18.01
		50	0	17.96	18.16	18.17

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37775	38000	38225
		Frequency (MHz)		2572.5	2595	2617.5
5M	QPSK	1	0	24.31	24.35	24.29
		1	12	24.13	24.30	24.14
		1	24	23.94	24.24	24.26
		12	0	23.10	23.44	23.39
		12	6	23.20	23.25	23.18
		12	13	23.13	23.39	23.25
		25	0	23.10	23.32	23.42
5M	16QAM	1	0	23.13	23.33	23.36
		1	12	23.11	23.33	23.31
		1	24	23.04	23.39	23.36
		12	0	22.15	22.45	22.39
		12	6	22.10	22.34	22.32
		12	13	22.27	22.35	22.37
		25	0	22.20	22.48	22.32
5M	64QAM	1	0	21.94	22.03	22.13
		1	12	21.90	22.21	22.08
		1	24	21.74	22.09	21.93
		12	0	21.26	21.31	21.36
		12	6	21.10	21.37	21.42
		12	13	21.18	21.29	21.29
		25	0	21.16	21.30	21.27
5M	256QAM	1	0	19.03	18.78	18.94
		1	12	18.57	18.78	18.88
		1	24	18.75	18.72	18.93
		12	0	17.91	18.12	18.12
		12	6	17.90	17.96	17.87
		12	13	17.98	17.98	18.05
		25	0	17.83	17.96	18.06

LTE Band 40 (2305MHz ~ 2315MHz)				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		38750
		Frequency (MHz)		2310
10M	QPSK	1	0	22.17
		1	24	21.94
		1	49	21.93
		25	0	21.27
		25	12	21.01
		25	25	21.12
		50	0	21.11
10M	16QAM	1	0	20.99
		1	24	20.92
		1	49	21.17
		25	0	20.22
		25	12	20.13
		25	25	20.02
		50	0	20.05
10M	64QAM	1	0	19.84
		1	24	19.75
		1	49	19.74
		25	0	19.37
		25	12	19.22
		25	25	19.11
		50	0	19.12
10M	256QAM	1	0	16.44
		1	24	16.49
		1	49	16.52
		25	0	15.73
		25	12	15.83
		25	25	15.92
		50	0	15.97

LTE Band 40 (2305MHz ~ 2315MHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		38725	38750	38775
		Frequency (MHz)		2307.5	2310	2312.5
5M	QPSK	1	0	22.05	22.14	22.08
		1	12	21.92	21.92	22.06
		1	24	21.87	21.91	21.92
		12	0	21.12	21.17	21.27
		12	6	21.02	21.05	21.08
		12	13	21.13	20.94	21.02
		25	0	21.16	21.12	21.16
5M	16QAM	1	0	21.01	21.18	21.21
		1	12	21.13	21.17	21.27
		1	24	21.12	21.00	21.12
		12	0	20.05	20.19	20.32
		12	6	20.02	20.12	20.24
		12	13	20.08	20.08	20.25
		25	0	20.11	20.08	20.28
5M	64QAM	1	0	19.74	19.81	19.79
		1	12	19.72	19.78	19.94
		1	24	19.57	19.58	19.58
		12	0	19.33	19.17	19.26
		12	6	19.02	19.16	19.27
		12	13	19.08	19.12	19.12
		25	0	19.10	19.22	19.15
5M	256QAM	1	0	16.86	16.73	16.72
		1	12	16.44	16.38	16.73
		1	24	16.52	16.60	16.37
		12	0	15.73	16.07	15.82
		12	6	15.75	15.97	15.79
		12	13	15.95	15.77	15.83
		25	0	15.84	15.82	15.76

LTE Band 40 (2350MHz ~ 2360MHz)				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		39200
		Frequency (MHz)		2355
10M	QPSK	1	0	22.12
		1	24	22.02
		1	49	21.94
		25	0	21.17
		25	12	21.05
		25	25	21.08
		50	0	21.07
10M	16QAM	1	0	20.94
		1	24	20.87
		1	49	21.12
		25	0	20.15
		25	12	20.08
		25	25	19.95
		50	0	20.02
10M	64QAM	1	0	19.74
		1	24	19.73
		1	49	19.72
		25	0	19.38
		25	12	19.20
		25	25	19.08
		50	0	19.15
10M	256QAM	1	0	16.41
		1	24	16.34
		1	49	16.38
		25	0	15.72
		25	12	15.75
		25	25	15.87
		50	0	15.97

LTE Band 40 (2350MHz ~ 2360MHz)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39175	39200	39225
		Frequency (MHz)		2352.5	2355	2357.5
5M	QPSK	1	0	22.07	22.11	22.05
		1	12	21.83	21.97	22.00
		1	24	21.86	21.94	21.96
		12	0	21.14	21.07	21.23
		12	6	20.94	20.95	21.12
		12	13	21.06	20.92	21.03
		25	0	21.07	21.03	21.12
5M	16QAM	1	0	20.91	21.08	21.10
		1	12	21.02	21.13	21.17
		1	24	20.95	20.98	21.07
		12	0	20.04	20.22	20.26
		12	6	19.94	20.09	20.16
		12	13	20.05	20.05	20.08
		25	0	20.08	20.04	20.09
5M	64QAM	1	0	19.72	19.82	19.82
		1	12	19.73	19.77	19.74
		1	24	19.51	19.56	19.62
		12	0	19.27	19.11	19.19
		12	6	18.98	19.12	19.23
		12	13	19.06	19.05	19.08
		25	0	19.07	19.16	19.13
5M	256QAM	1	0	16.64	16.62	16.61
		1	12	16.28	16.35	16.42
		1	24	16.42	16.51	16.34
		12	0	15.72	15.98	15.77
		12	6	15.77	15.96	15.73
		12	13	15.97	15.73	15.86
		25	0	15.84	15.81	15.76

LTE Band 41 (Power Class 2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	26.95	27.22	26.83
		1	50	26.78	27.05	26.71
		1	99	26.76	27.03	26.69
		50	0	26.25	26.52	26.18
		50	25	26.20	26.47	26.13
		50	50	26.09	26.36	26.02
		100	0	26.03	26.30	25.96
20M	16QAM	1	0	25.94	26.21	25.79
		1	50	25.72	25.95	25.70
		1	99	25.70	25.96	25.61
		50	0	25.22	25.42	25.14
		50	25	25.11	25.43	25.03
		50	50	25.04	25.31	24.94
		100	0	25.01	25.21	24.86
20M	64QAM	1	0	24.95	25.19	24.75
		1	50	24.78	24.95	24.68
		1	99	24.69	24.96	24.62
		50	0	24.24	24.48	24.11
		50	25	24.10	24.45	24.06
		50	50	24.07	24.31	23.99
		100	0	24.02	24.22	23.88
20M	256QAM	1	0	21.62	21.64	21.62
		1	50	21.37	21.61	21.20
		1	99	21.50	21.41	21.38
		50	0	20.67	20.89	20.78
		50	25	20.75	20.86	20.91
		50	50	20.64	20.96	20.52
		100	0	20.81	20.75	20.51

LTE Band 41 (Power Class 2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	26.86	27.12	26.80
		1	37	26.78	27.04	26.70
		1	74	26.72	26.99	26.60
		36	0	26.19	26.50	26.15
		36	19	26.19	26.43	26.03
		36	39	26.07	26.36	25.93
		75	0	26.02	26.26	25.86
15M	16QAM	1	0	25.85	26.17	25.79
		1	37	25.71	26.03	25.70
		1	74	25.73	25.96	25.61
		36	0	25.15	25.51	25.08
		36	19	25.14	25.38	25.03
		36	39	25.03	25.30	24.99
		75	0	25.00	25.29	24.86
15M	64QAM	1	0	24.92	25.12	24.80
		1	37	24.73	25.05	24.69
		1	74	24.69	24.96	24.65
		36	0	24.17	24.42	24.11
		36	19	24.13	24.38	24.10
		36	39	24.02	24.28	23.96
		75	0	23.96	24.30	23.91
15M	256QAM	1	0	21.55	21.60	21.39
		1	37	21.32	21.53	21.44
		1	74	21.31	21.34	21.14
		36	0	20.61	21.25	20.90
		36	19	20.89	20.85	20.76
		36	39	20.75	20.88	20.36
		75	0	20.77	20.86	20.56

LTE Band 41 (Power Class 2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	26.87	27.19	26.82
		1	24	26.78	26.97	26.61
		1	49	26.72	27.01	26.67
		25	0	26.16	26.51	26.09
		25	12	26.18	26.37	26.10
		25	25	26.03	26.33	25.93
		50	0	25.99	26.29	25.96
10M	16QAM	1	0	25.93	26.15	25.80
		1	24	25.70	25.99	25.65
		1	49	25.69	25.99	25.66
		25	0	25.18	25.49	25.08
		25	12	25.17	25.40	25.03
		25	25	25.04	25.29	24.92
		50	0	24.97	25.20	24.91
10M	64QAM	1	0	24.89	25.14	24.82
		1	24	24.75	25.03	24.71
		1	49	24.71	24.93	24.67
		25	0	24.23	24.47	24.09
		25	12	24.12	24.42	24.08
		25	25	24.09	24.27	23.96
		50	0	23.97	24.24	23.95
10M	256QAM	1	0	21.38	21.59	21.46
		1	24	21.24	21.56	21.05
		1	49	21.11	21.62	21.21
		25	0	20.56	20.95	20.89
		25	12	20.58	20.79	20.50
		25	25	20.73	20.88	20.34
		50	0	20.49	21.11	20.39

LTE Band 41 (Power Class 2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	26.94	27.22	26.78
		1	12	26.77	27.03	26.69
		1	24	26.73	26.94	26.64
		12	0	26.19	26.42	26.10
		12	6	26.12	26.44	26.11
		12	13	25.99	26.30	26.00
		25	0	25.99	26.22	25.86
5M	16QAM	1	0	25.86	26.22	25.81
		1	12	25.72	25.95	25.68
		1	24	25.75	25.96	25.60
		12	0	25.16	25.48	25.11
		12	6	25.13	25.39	25.06
		12	13	25.04	25.35	25.01
		25	0	24.98	25.23	24.93
5M	64QAM	1	0	24.85	25.19	24.74
		1	12	24.75	25.04	24.64
		1	24	24.73	24.95	24.61
		12	0	24.22	24.47	24.17
		12	6	24.16	24.45	24.04
		12	13	24.09	24.32	23.95
		25	0	23.96	24.20	23.92
5M	256QAM	1	0	21.37	21.58	21.47
		1	12	21.13	21.53	21.05
		1	24	21.37	21.50	21.39
		12	0	20.61	20.94	20.80
		12	6	20.95	21.16	20.84
		12	13	20.54	20.82	20.60
		25	0	20.72	20.82	20.24

LTE Band 41 (Power Class 3)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	26.13	26.36	26.16
		1	50	25.82	26.10	25.90
		1	99	25.67	25.92	25.72
		50	0	25.14	25.43	25.23
		50	25	25.09	25.35	25.15
		50	50	25.08	25.28	25.08
		100	0	24.97	25.25	25.05
20M	16QAM	1	0	25.18	25.38	25.18
		1	50	25.06	25.33	25.13
		1	99	25.04	25.29	25.09
		50	0	24.15	24.39	24.19
		50	25	24.07	24.35	24.15
		50	50	24.05	24.30	24.10
		100	0	24.01	24.27	24.07
20M	64QAM	1	0	24.14	24.44	24.24
		1	50	24.21	24.43	24.23
		1	99	24.09	24.30	24.10
		50	0	23.20	23.45	23.25
		50	25	23.15	23.43	23.23
		50	50	23.16	23.37	23.17
		100	0	23.04	23.34	23.14
20M	256QAM	1	0	20.68	20.78	20.91
		1	50	20.20	20.80	20.45
		1	99	20.38	20.42	20.43
		50	0	19.66	20.09	19.75
		50	25	19.87	20.16	19.85
		50	50	19.91	19.68	19.91
		100	0	19.91	20.08	19.86

LTE Band 41 (Power Class 3)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	26.06	26.26	26.14
		1	37	25.77	26.08	25.87
		1	74	25.66	25.84	25.65
		36	0	25.05	25.40	25.13
		36	19	25.09	25.31	25.14
		36	39	25.07	25.22	25.04
		75	0	24.91	25.19	25.00
15M	16QAM	1	0	25.08	25.36	25.14
		1	37	25.04	25.30	24.82
		1	74	25.02	25.20	24.65
		36	0	24.14	24.30	24.20
		36	19	24.07	24.25	24.10
		36	39	23.95	24.30	24.06
		75	0	23.99	24.18	23.96
15M	64QAM	1	0	24.13	24.35	24.15
		1	37	24.19	24.33	23.81
		1	74	24.04	24.20	23.67
		36	0	23.20	23.37	23.22
		36	19	23.05	23.38	23.11
		36	39	23.06	23.30	22.99
		75	0	22.95	23.29	23.05
15M	256QAM	1	0	20.81	20.71	20.82
		1	37	20.15	20.71	20.25
		1	74	20.29	20.54	20.09
		36	0	19.86	20.21	19.72
		36	19	19.78	19.90	19.73
		36	39	19.82	19.79	19.73
		75	0	19.81	19.68	19.67

LTE Band 41 (Power Class 3)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	26.08	26.26	26.01
		1	24	25.73	26.04	25.78
		1	49	25.67	25.90	25.69
		25	0	25.06	25.31	25.13
		25	12	24.93	25.18	25.09
		25	25	24.93	25.21	25.01
		50	0	24.81	25.20	24.96
10M	16QAM	1	0	25.05	25.23	25.05
		1	24	24.74	24.97	24.81
		1	49	24.61	24.91	24.70
		25	0	24.08	24.25	24.08
		25	12	23.94	24.26	24.10
		25	25	23.97	24.19	23.95
		50	0	23.80	24.16	24.00
10M	64QAM	1	0	24.06	24.24	23.97
		1	24	23.77	24.01	23.85
		1	49	23.67	23.90	23.63
		25	0	23.07	23.29	23.16
		25	12	22.96	23.23	23.08
		25	25	22.97	23.20	22.95
		50	0	22.83	23.13	22.97
10M	256QAM	1	0	20.63	20.83	20.49
		1	24	20.21	20.57	20.41
		1	49	20.45	20.31	20.52
		25	0	19.76	19.97	19.91
		25	12	19.67	19.65	19.92
		25	25	19.67	19.97	19.87
		50	0	19.82	19.86	19.88

LTE Band 41 (Power Class 3)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	26.02	26.29	26.01
		1	12	25.68	25.95	25.84
		1	24	25.50	25.82	25.63
		12	0	25.13	25.30	25.12
		12	6	25.03	25.22	24.99
		12	13	24.95	25.19	24.97
		25	0	24.82	25.12	24.92
5M	16QAM	1	0	25.05	25.36	25.05
		1	12	24.66	25.01	24.89
		1	24	24.58	24.82	24.63
		12	0	24.03	24.31	24.04
		12	6	24.07	24.24	24.07
		12	13	23.95	24.23	23.97
		25	0	23.89	24.12	23.89
5M	64QAM	1	0	24.00	24.27	23.97
		1	12	23.70	23.94	23.88
		1	24	23.50	23.84	23.57
		12	0	23.10	23.34	23.07
		12	6	23.00	23.18	23.00
		12	13	22.95	23.23	22.92
		25	0	22.80	23.13	22.90
5M	256QAM	1	0	20.40	20.76	20.66
		1	12	20.36	20.65	20.44
		1	24	20.01	20.57	20.31
		12	0	19.96	19.74	19.88
		12	6	19.67	19.76	19.91
		12	13	19.93	19.93	19.75
		25	0	19.86	19.82	19.66

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	21.72	22.20	22.31
		1	50	21.67	22.08	22.29
		1	99	21.31	21.72	21.93
		50	0	20.91	21.10	21.31
		50	25	20.90	21.09	21.30
		50	50	20.87	21.06	21.27
		100	0	20.89	21.08	21.29
20M	16QAM	1	0	21.16	21.14	21.13
		1	50	21.10	21.01	21.16
		1	99	21.06	21.08	21.12
		50	0	19.95	20.14	20.09
		50	25	19.93	20.12	20.12
		50	50	19.89	20.08	20.04
		100	0	19.92	20.11	20.08
20M	64QAM	1	0	19.84	20.25	20.30
		1	50	19.81	20.22	20.24
		1	99	19.58	19.99	20.20
		50	0	19.00	19.31	19.17
		50	25	18.96	19.27	19.21
		50	50	18.88	19.29	19.24
		100	0	18.95	19.26	19.27
20M	256QAM	1	0	16.18	16.70	17.07
		1	50	16.32	16.79	16.93
		1	99	15.92	16.23	16.58
		50	0	15.50	15.64	16.15
		50	25	15.45	15.73	16.07
		50	50	15.37	15.76	15.83
		100	0	15.64	15.74	15.72

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	21.56	21.97	22.20
		1	37	21.52	21.95	22.26
		1	74	21.21	21.57	21.86
		36	0	21.76	22.02	22.27
		36	19	21.84	21.98	22.16
		36	39	21.82	21.89	22.15
		75	0	20.80	20.92	21.13
15M	16QAM	1	0	20.95	20.95	21.02
		1	37	20.93	20.87	20.93
		1	74	20.88	20.93	21.01
		36	0	20.79	21.04	20.93
		36	19	20.82	20.99	20.97
		36	39	20.73	20.93	20.93
		75	0	19.79	19.96	19.99
15M	64QAM	1	0	19.71	20.18	20.17
		1	37	19.70	20.17	20.14
		1	74	19.47	19.87	20.02
		36	0	19.91	20.20	19.94
		36	19	19.76	20.10	20.18
		36	39	19.73	20.19	20.07
		75	0	18.85	19.19	19.16
15M	256QAM	1	0	16.14	16.45	16.70
		1	37	16.22	16.48	16.73
		1	74	15.82	16.11	16.67
		36	0	16.50	16.50	16.91
		36	19	16.46	16.77	16.92
		36	39	16.59	16.58	16.55
		75	0	15.53	15.76	15.67

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	21.56	22.05	22.16
		1	24	21.52	22.01	22.08
		1	49	21.15	21.63	21.75
		25	0	20.81	20.98	21.26
		25	12	20.89	20.92	21.19
		25	25	20.75	20.99	21.18
		50	0	20.81	20.92	21.19
10M	16QAM	1	0	21.00	21.03	21.01
		1	24	20.98	20.82	20.99
		1	49	20.88	20.86	20.89
		25	0	19.75	20.05	19.97
		25	12	19.77	19.91	20.02
		25	25	19.76	19.95	19.89
		50	0	19.81	20.01	19.96
10M	64QAM	1	0	19.71	20.06	20.14
		1	24	19.71	20.09	20.20
		1	49	19.36	19.77	20.14
		25	0	18.90	19.22	19.08
		25	12	18.90	19.13	19.11
		25	25	18.80	19.22	19.12
		50	0	18.82	19.10	19.10
10M	256QAM	1	0	16.23	16.69	16.99
		1	24	16.31	16.54	16.53
		1	49	15.74	16.40	16.16
		25	0	15.38	15.48	15.73
		25	12	15.73	15.51	15.73
		25	25	15.35	15.45	15.95
		50	0	15.61	15.45	16.01

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	21.71	22.13	22.09
		1	12	21.66	21.99	22.13
		1	24	21.10	21.51	21.64
		12	0	20.74	20.91	21.04
		12	6	20.76	21.03	21.22
		12	13	20.73	20.83	20.97
		25	0	20.78	20.90	20.98
5M	16QAM	1	0	20.99	21.00	21.00
		1	12	20.91	20.89	21.15
		1	24	20.84	20.90	21.07
		12	0	19.84	20.01	19.97
		12	6	19.70	20.10	19.99
		12	13	19.71	19.97	19.91
		25	0	19.78	20.01	19.93
5M	64QAM	1	0	19.66	20.05	20.17
		1	12	19.70	20.10	20.10
		1	24	19.58	19.90	20.05
		12	0	18.90	19.09	19.05
		12	6	18.76	19.23	19.06
		12	13	18.78	19.06	19.08
		25	0	18.88	19.16	19.18
5M	256QAM	1	0	16.31	16.68	16.88
		1	12	16.43	16.59	16.75
		1	24	15.85	16.00	16.45
		12	0	15.34	15.66	15.49
		12	6	15.41	15.55	15.83
		12	13	15.33	15.58	15.45
		25	0	15.40	15.61	15.80

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	21.57	22.06	22.16
		1	7	21.49	21.98	22.14
		1	14	21.09	21.57	21.74
		8	0	20.71	20.93	21.19
		8	3	20.79	20.91	21.14
		8	7	20.76	20.88	21.06
		15	0	20.69	20.95	21.19
3M	16QAM	1	0	21.08	20.90	21.04
		1	7	20.98	20.84	21.12
		1	14	20.91	21.01	21.08
		8	0	19.76	20.03	20.05
		8	3	19.76	19.95	20.05
		8	7	19.78	19.96	20.00
		15	0	19.85	19.91	19.91
3M	64QAM	1	0	19.81	20.19	20.23
		1	7	19.68	20.11	20.05
		1	14	19.44	19.91	20.13
		8	0	18.93	19.20	19.07
		8	3	18.87	19.24	19.02
		8	7	18.77	19.15	19.15
		15	0	18.82	19.13	19.07
3M	256QAM	1	0	16.27	16.47	16.61
		1	7	16.21	16.72	16.90
		1	14	15.89	16.04	16.20
		8	0	15.47	15.61	15.76
		8	3	15.36	15.59	15.59
		8	7	15.50	15.59	15.63
		15	0	15.44	15.57	15.62

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	21.56	21.97	22.20
		1	2	21.52	21.95	22.26
		1	5	21.21	21.57	21.86
		3	0	21.76	22.02	22.27
		3	1	21.84	21.98	22.16
		3	3	21.82	21.89	22.15
		6	0	20.80	20.92	21.13
1.4M	16QAM	1	0	20.95	20.95	21.02
		1	2	20.93	20.87	20.93
		1	5	20.88	20.93	21.01
		3	0	20.79	21.04	20.93
		3	1	20.82	20.99	20.97
		3	3	20.73	20.93	20.93
		6	0	19.79	19.96	19.99
1.4M	64QAM	1	0	19.71	20.18	20.17
		1	2	19.70	20.17	20.14
		1	5	19.47	19.87	20.02
		3	0	19.91	20.20	19.94
		3	1	19.76	20.10	20.18
		3	3	19.73	20.19	20.07
		6	0	18.85	19.19	19.16
1.4M	256QAM	1	0	16.14	16.45	16.70
		1	2	16.22	16.48	16.73
		1	5	15.82	16.11	16.67
		3	0	16.50	16.50	16.91
		3	1	16.46	16.77	16.92
		3	3	16.59	16.58	16.55
		6	0	15.53	15.76	15.67

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	17.10	17.07	17.08
		1	50	17.02	16.99	17.00
		1	99	17.00	16.97	16.98
		50	0	16.02	15.99	16.00
		50	25	16.00	15.97	15.98
		50	50	15.95	15.92	15.93
		100	0	16.05	16.02	16.03
20M	16QAM	1	0	16.07	16.00	16.02
		1	50	15.96	15.96	15.92
		1	99	15.90	15.88	15.88
		50	0	14.98	14.91	14.97
		50	25	14.99	14.92	14.88
		50	50	14.89	14.83	14.84
		100	0	15.01	14.98	15.00
20M	64QAM	1	0	15.05	15.06	15.05
		1	50	14.98	14.95	14.95
		1	99	14.96	14.94	14.95
		50	0	13.96	13.94	13.96
		50	25	14.00	13.94	13.93
		50	50	13.91	13.89	13.86
		100	0	13.96	13.95	14.03
20M	256QAM	1	0	11.70	11.47	11.83
		1	50	11.57	11.52	11.40
		1	99	11.60	11.47	11.51
		50	0	10.59	10.78	10.55
		50	25	10.59	10.49	10.55
		50	50	10.57	10.54	10.41
		100	0	10.62	10.80	10.46

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	17.09	17.07	17.08
		1	37	17.01	16.99	16.98
		1	74	16.94	16.89	16.88
		36	0	15.98	15.90	15.97
		36	19	15.99	15.93	15.91
		36	39	15.91	15.88	15.90
		75	0	15.96	15.95	15.94
15M	16QAM	1	0	15.98	15.97	15.94
		1	37	15.86	15.91	15.88
		1	74	15.87	15.87	15.88
		36	0	14.93	14.82	14.95
		36	19	14.92	14.83	14.78
		36	39	14.86	14.80	14.80
		75	0	14.93	14.88	14.90
15M	64QAM	1	0	15.05	15.02	14.96
		1	37	14.94	14.89	14.85
		1	74	14.87	14.87	14.90
		36	0	13.86	13.87	13.93
		36	19	13.93	13.87	13.89
		36	39	13.90	13.80	13.76
		75	0	13.90	13.85	13.98
15M	256QAM	1	0	11.84	11.80	11.68
		1	37	11.41	11.52	11.78
		1	74	11.64	11.47	11.29
		36	0	10.53	10.35	10.76
		36	19	10.82	10.60	10.51
		36	39	10.74	10.59	10.66
		75	0	10.65	10.40	10.42

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	17.09	17.05	17.04
		1	24	17.02	16.89	16.91
		1	49	16.92	16.92	16.95
		25	0	15.93	15.99	15.93
		25	12	15.95	15.96	15.92
		25	25	15.91	15.86	15.86
		50	0	15.99	15.95	15.93
10M	16QAM	1	0	16.02	15.95	15.97
		1	24	15.93	15.88	15.84
		1	49	15.80	15.80	15.82
		25	0	14.92	14.91	14.96
		25	12	14.95	14.88	14.82
		25	25	14.81	14.83	14.78
		50	0	14.96	14.90	14.93
10M	64QAM	1	0	14.96	14.97	14.97
		1	24	14.97	14.93	14.86
		1	49	14.92	14.90	14.87
		25	0	13.90	13.87	13.96
		25	12	13.90	13.93	13.83
		25	25	13.82	13.79	13.76
		50	0	13.87	13.91	13.97
10M	256QAM	1	0	11.79	11.50	11.42
		1	24	11.85	11.69	11.34
		1	49	11.45	11.72	11.70
		25	0	10.38	10.73	10.55
		25	12	10.64	10.75	10.75
		25	25	10.58	10.50	10.67
		50	0	10.80	10.74	10.41

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	17.01	17.07	17.08
		1	12	16.97	16.99	16.98
		1	24	16.99	16.94	16.96
		12	0	16.02	15.92	15.98
		12	6	15.97	15.96	15.93
		12	13	15.92	15.84	15.90
		25	0	16.05	15.94	16.00
5M	16QAM	1	0	16.00	15.98	15.99
		1	12	15.96	15.95	15.85
		1	24	15.90	15.83	15.88
		12	0	14.88	14.85	14.90
		12	6	14.98	14.92	14.81
		12	13	14.83	14.73	14.79
		25	0	14.93	14.91	15.00
5M	64QAM	1	0	15.03	14.98	14.97
		1	12	14.91	14.95	14.90
		1	24	14.86	14.93	14.86
		12	0	13.92	13.86	13.91
		12	6	13.98	13.89	13.86
		12	13	13.85	13.87	13.85
		25	0	13.94	13.90	13.98
5M	256QAM	1	0	11.46	11.70	11.61
		1	12	11.37	11.82	11.73
		1	24	11.54	11.54	11.61
		12	0	10.71	10.47	10.67
		12	6	10.56	10.46	10.64
		12	13	10.35	10.46	10.64
		25	0	10.76	10.70	10.50

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

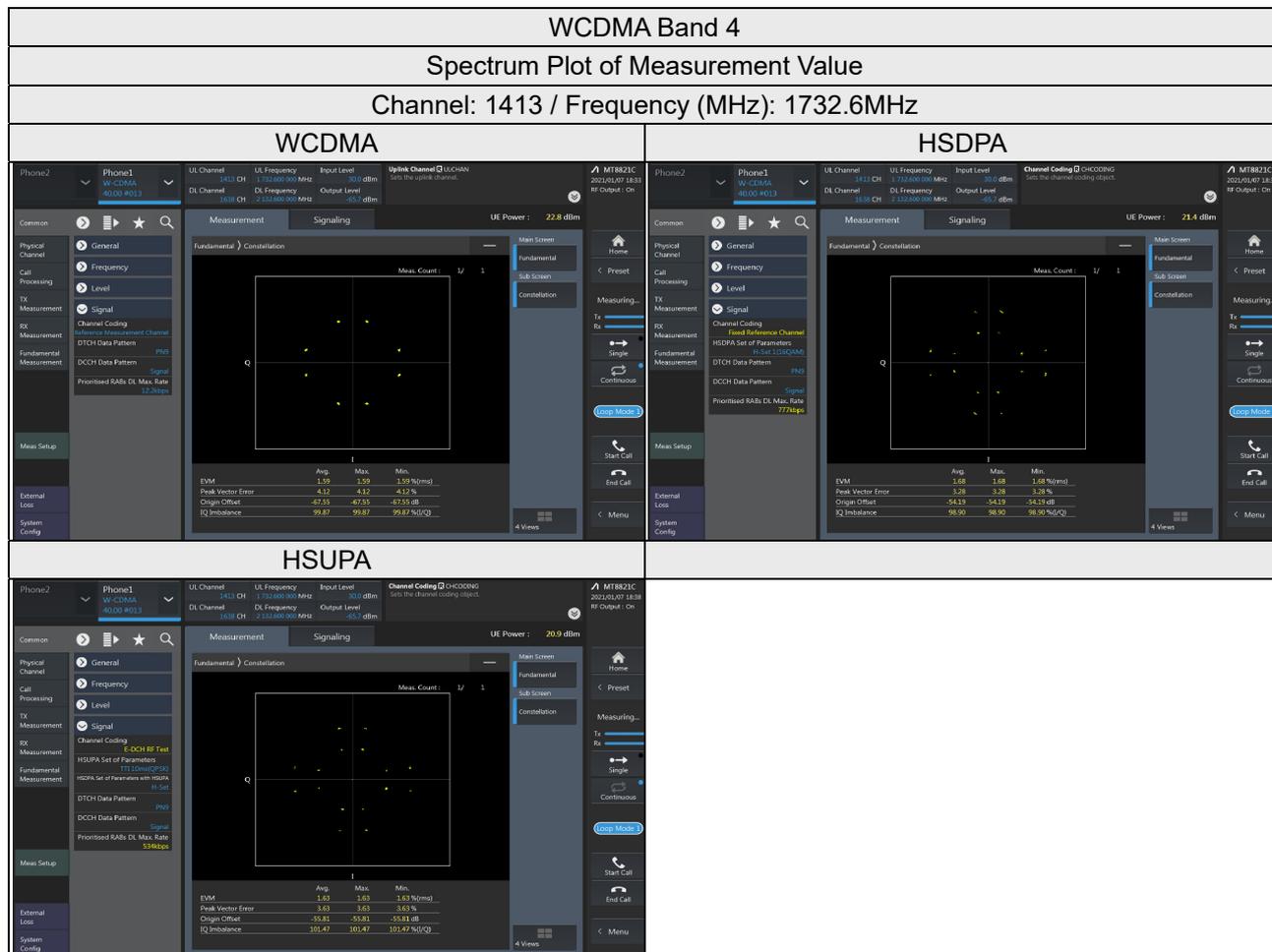
4.2.2 Test Procedure

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

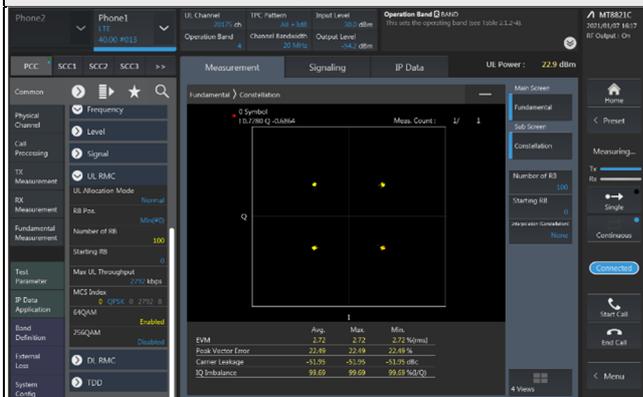


LTE Band 4

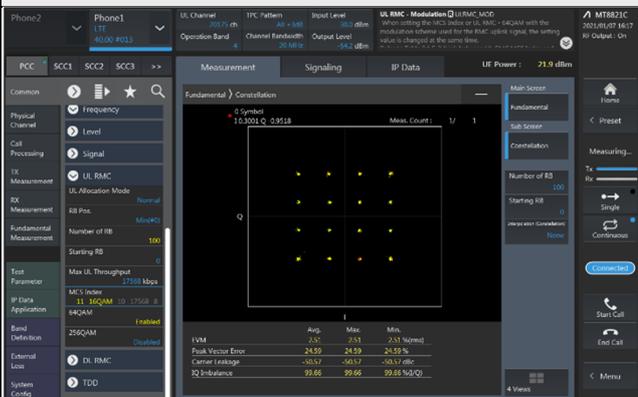
Spectrum Plot of Measurement Value

Channel: 20175 / Frequency (MHz): 1732.5MHz

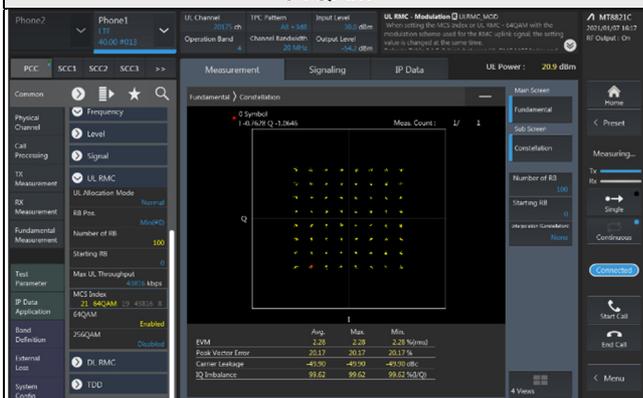
QPSK



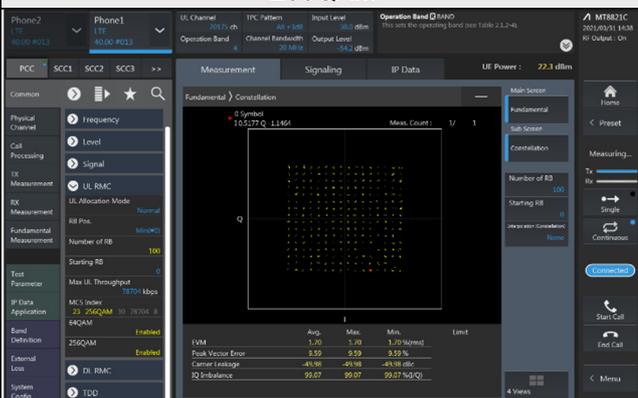
16QAM



64QAM



256QAM

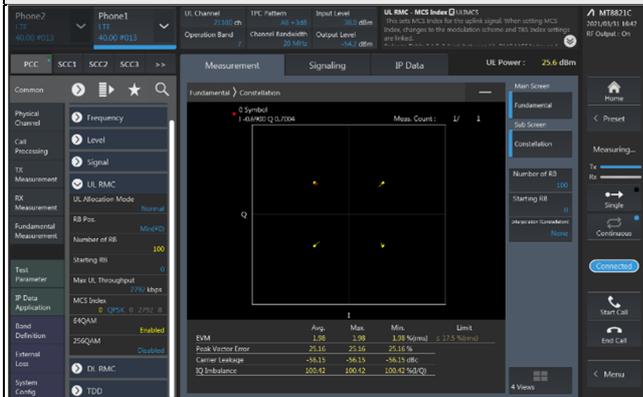


LTE Band 7

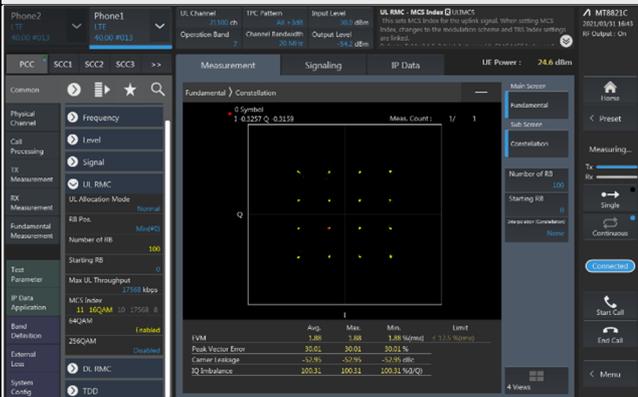
Spectrum Plot of Measurement Value

Channel: 21100 / Frequency (MHz): 2535.0MHz

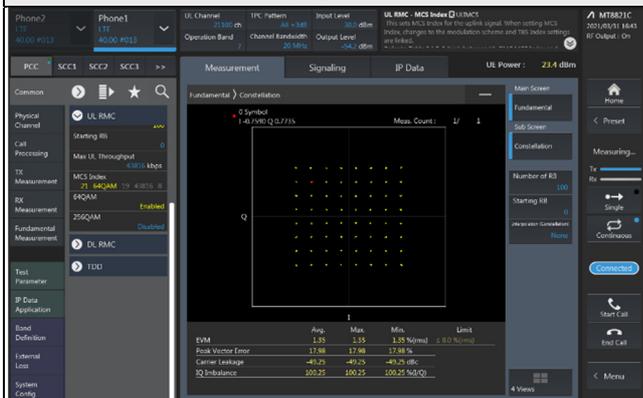
QPSK



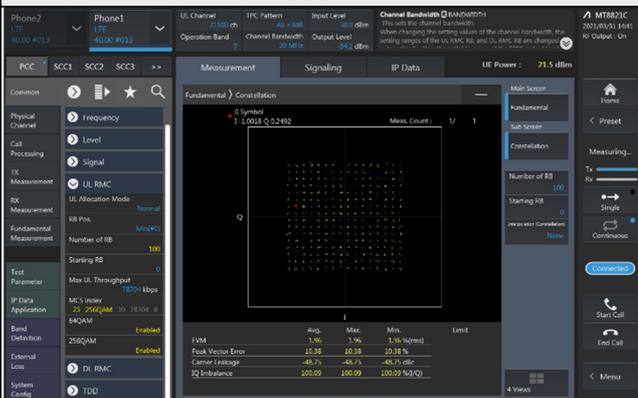
16QAM



64QAM



256QAM

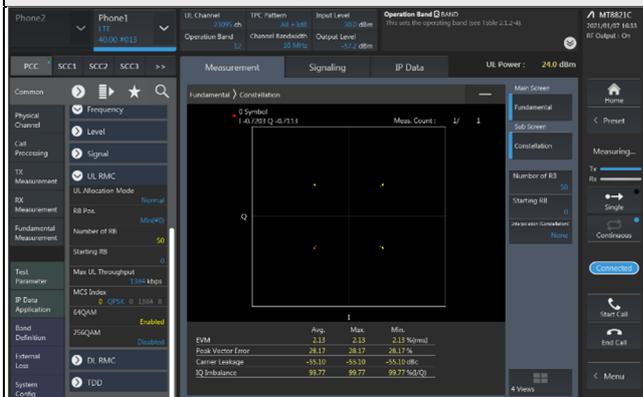


LTE Band 12

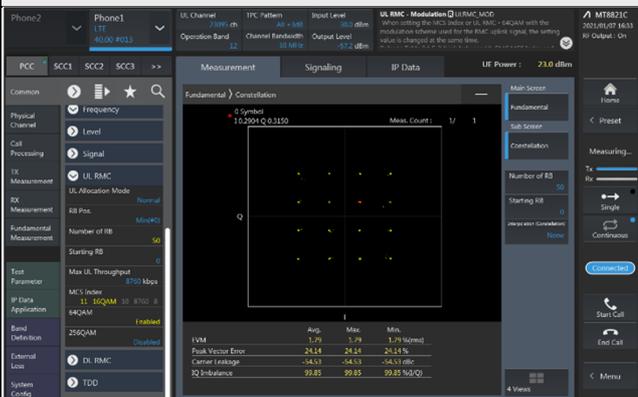
Spectrum Plot of Measurement Value

Channel: 23095 / Frequency (MHz): 707.5MHz

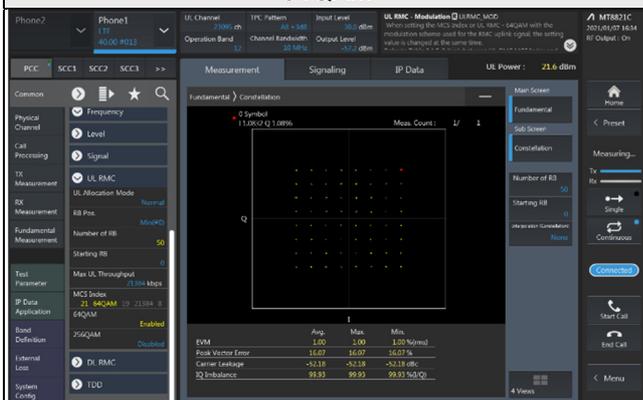
QPSK



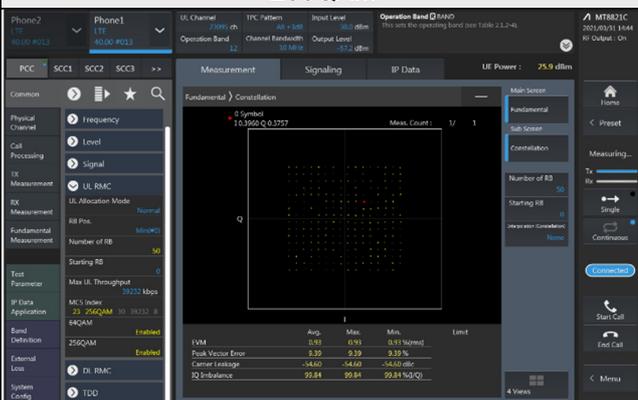
16QAM



64QAM



256QAM

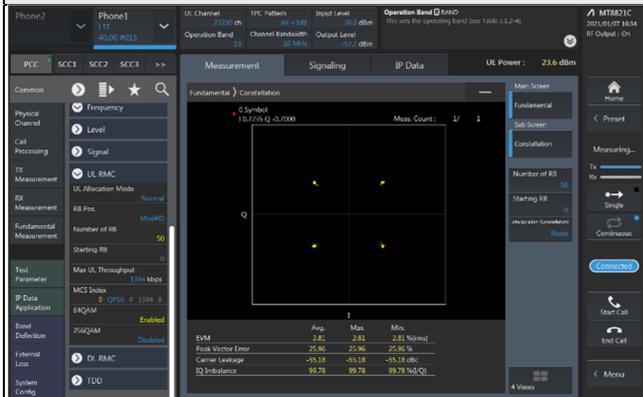


LTE Band 13

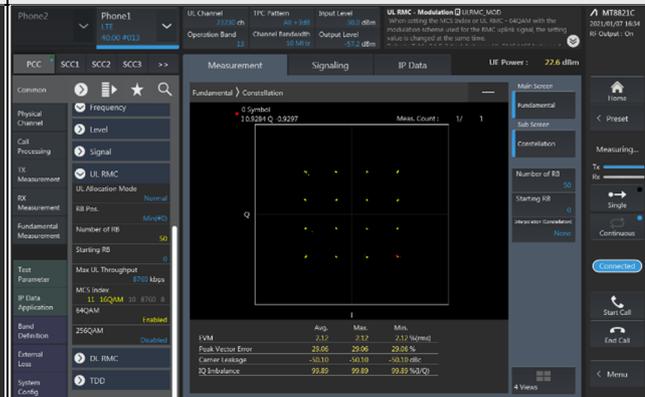
Spectrum Plot of Measurement Value

Channel: 23230 / Frequency (MHz): 782.0MHz

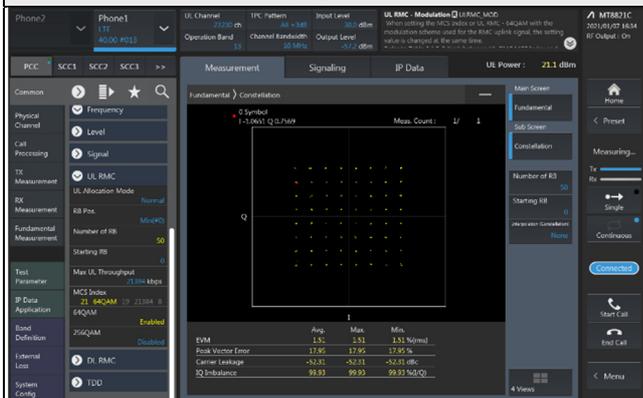
QPSK



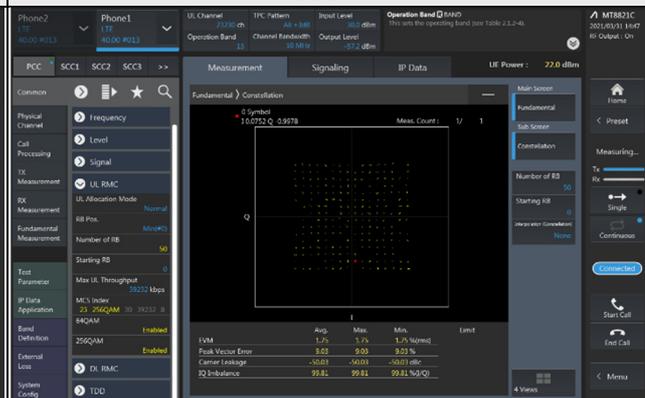
16QAM



64QAM



256QAM

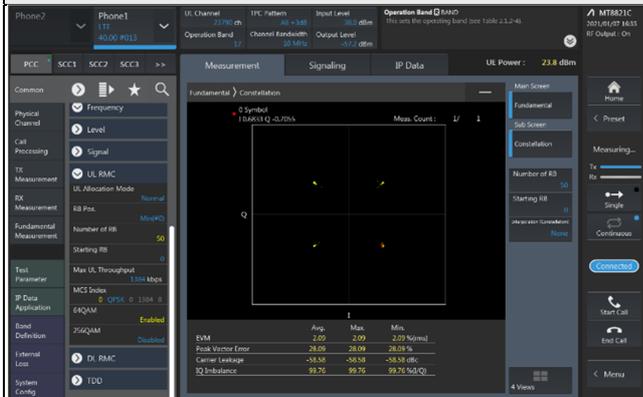


LTE Band 17

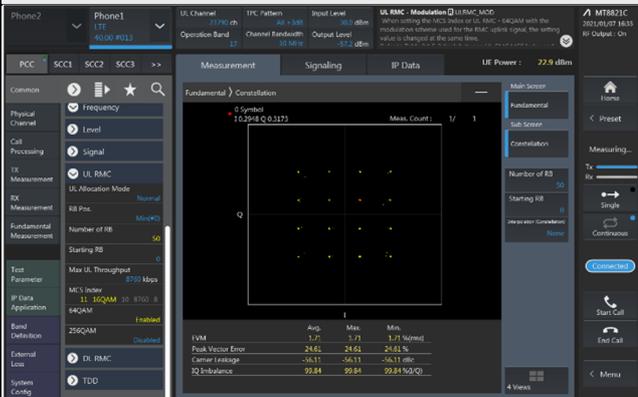
Spectrum Plot of Measurement Value

Channel: 23790 / Frequency (MHz): 710.0MHz

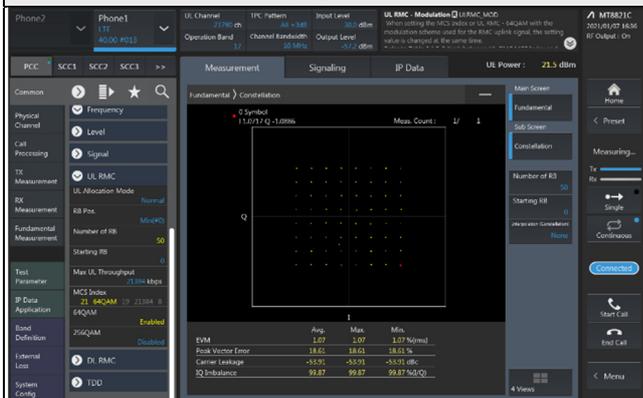
QPSK



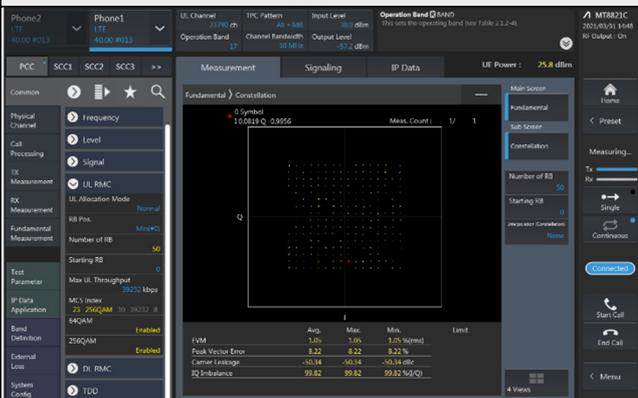
16QAM



64QAM



256QAM

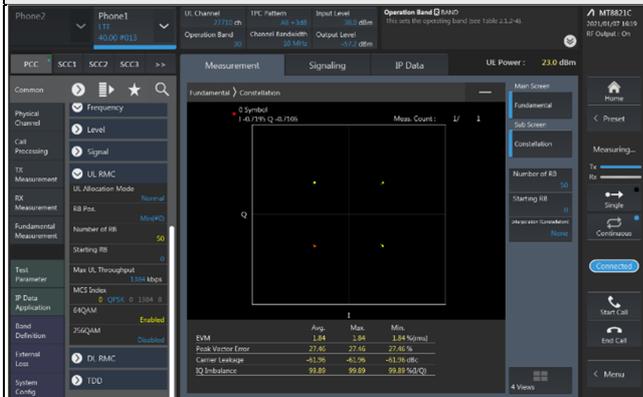


LTE Band 30

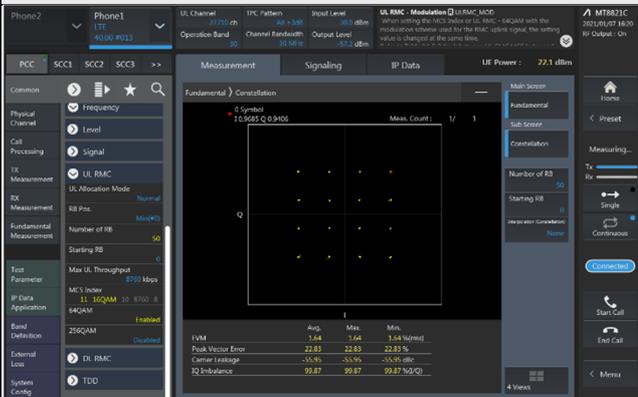
Spectrum Plot of Measurement Value

Channel: 27710 / Frequency (MHz): 2310.0MHz

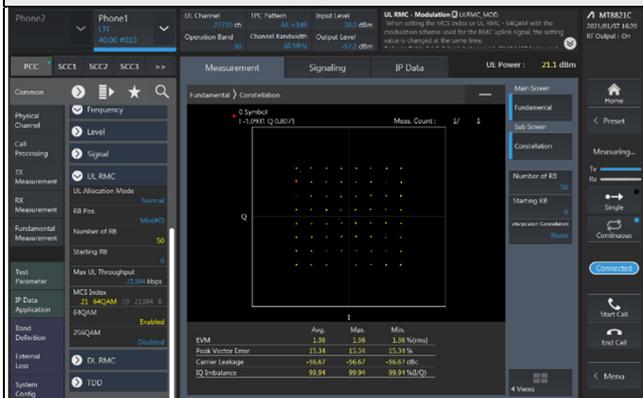
QPSK



16QAM



64QAM



256QAM

