

FCC Test Report

(ENDC: n78+Band 2/4/5/7/12/13/38/66/71)

Report No.: RFBFLF-WTW-P21010278-32

FCC ID: MSQI007D

Test Model: ASUS_I007D

Received Date: Jan. 04, 2021

Test Date: Feb. 26 ~ Apr. 19, 2021

Issued Date: Apr. 19, 2021

Applicant: ASUSTeK COMPUTER INC.

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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RFBFLF-WTW-P21010278-32	Original release	Apr. 19, 2021

1 Certificate of Conformity

Product: EXP21 Smartphone

Brand: ASUS

Test Model: ASUS_I007D

Sample Status: Engineering sample

Applicant: ASUSTeK COMPUTER INC.

Test Date: Feb. 26 ~ Apr. 19, 2021

Standards: FCC Part 22, Subpart H
FCC Part 24, Subpart E
FCC Part 27, Subpart C, F, H, L, M, N, O

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

Prepared by : Pettie Chen , **Date:** Apr. 19, 2021
Pettie Chen / Senior Specialist

Approved by : Bruce Chen , **Date:** Apr. 19, 2021
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

For 5GNR n78:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (j)	Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
----	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.
2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53(l)	Band Edge / Out of Band Emissions Measurements	Pass	Meet the requirement of limit.
2.1051 27.53(l)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53(l)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -30.91dB at 7500.00MHz.

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

For LTE Band 2:

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232(d)	Peak To Average Ratio	Pass	Refer to Note 1
2.1047	Modulation Characteristics	Pass	Refer to Note 1
2.1055 24.235	Frequency Stability	Pass	Refer to Note 1
2.1049 24.238(b)	Occupied Bandwidth	Pass	Refer to Note 1
24.238(b)	Band Edge Measurements	Pass	Refer to Note 1
2.1051 24.238	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -30.40dB at 3505.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Effective Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-10.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 4:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
27.50 (d)(5)	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	Frequency Stability	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (h)	Band Edge Measurements	Pass	Refer to Note 1
2.1051 27.53 (h)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -30.40dB at 3505.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Effective radiated power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-11.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 5:

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective radiated power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
22.913 (d)	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 22.355	Frequency Stability	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
22.917	Band Edge Measurements	Pass	Refer to Note 1
2.1051 22.917	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -40.65dB at 1693.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Effective radiated power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-9.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 7:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (h)(2)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
----	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (m)(4)(6)	Band Edge / Out of Band Emissions Measurements	Pass	Refer to Note 1
2.1051 27.53 (m)(4)(6)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (m)(4)(6)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -24.26dB at 5120.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-11.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 12:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (c)	Equivalent Radiated Power	Pass	Meet the requirement.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
----	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (g)	Band Edge Measurements	Pass	Refer to Note 1
2.1051 27.53 (g)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (g)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -40.93dB at 1415.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-11.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 13:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(b)	Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
----	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53(c)	Band Edge / Out of Band Emissions Measurements	Pass	Refer to Note 1
2.1051 27.53 (c)(f)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53(c)(f)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -11.60dB at 1564.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-11.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 38:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (h)(2)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
----	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (m)(4)(6)	Band Edge Measurements	Pass	Refer to Note 1
2.1051 27.53 (m)(4)(6)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (m)(4)(6)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -17.00dB at 5160.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-11.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 66:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
27.50 (d)(5)	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (h)	Band Edge Measurements	Pass	Refer to Note 1
2.1051 27.53 (h)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -25.80dB at 3490.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-11.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 71:

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (c)	Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
----	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (g)	Band Edge / Out of Band Emissions Measurements	Pass	Refer to Note 1
2.1051 27.53 (g)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (g)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -39.30dB at 1376.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-11.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

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

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
			Apr. 09, 2021	Apr. 08, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSW43	101866	Dec. 14, 2020	Dec. 13, 2021
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2020	Nov. 24, 2021
5G Wireless Test Platforms Keysight	E7515B	MY60102114	May 28, 2020	May 27, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 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)

n78

Modulation Type	$\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM					
Waveform Type	CP-OFDM, DFT-s-OFDM					
Operating Frequency	n78 (Channel Bandwidth 20MHz)	3710.01MHz ~ 3789.99MHz				
	n78 (Channel Bandwidth 30MHz)	3715.02MHz ~ 3784.98MHz				
	n78 (Channel Bandwidth 40MHz)	3720.00MHz ~ 3780.00MHz				
	n78 (Channel Bandwidth 50MHz)	3725.01MHz ~ 3774.99MHz				
	n78 (Channel Bandwidth 60MHz)	3730.02MHz ~ 3769.98MHz				
	n78 (Channel Bandwidth 70MHz)	3750.00MHz ~ 3765.00MHz				
	n78 (Channel Bandwidth 80MHz)	3740.01MHz ~ 3759.99MHz				
	n78 (Channel Bandwidth 90MHz)	3745.02MHz ~ 3754.98MHz				
	n78 (Channel Bandwidth 100MHz)	3750.00MHz				
Max. EIRP Power		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n78 (Channel Bandwidth 20MHz)	295.121mW (24.70dBm)	294.442mW (24.69dBm)	232.274mW (23.66dBm)	162.555mW (22.11dBm)	99.770mW (19.99dBm)
	n78 (Channel Bandwidth 30MHz)	291.743mW (24.65dBm)	292.415mW (24.66dBm)	234.423mW (23.70dBm)	161.436mW (22.08dBm)	99.770mW (19.99dBm)
	n78 (Channel Bandwidth 40MHz)	295.121mW (24.70dBm)	295.801mW (24.71dBm)	237.137mW (23.75dBm)	164.059mW (22.15dBm)	101.625mW (20.07dBm)
	n78 (Channel Bandwidth 50MHz)	296.483mW (24.72dBm)	295.801mW (24.71dBm)	233.346mW (23.68dBm)	164.816mW (22.17dBm)	103.992mW (20.17dBm)
	n78 (Channel Bandwidth 60MHz)	296.483mW (24.72dBm)	294.442mW (24.69dBm)	235.505mW (23.72dBm)	164.059mW (22.15dBm)	103.514mW (20.15dBm)
	n78 (Channel Bandwidth 70MHz)	292.415mW (24.66dBm)	296.483mW (24.72dBm)	232.274mW (23.66dBm)	165.959mW (22.20dBm)	102.565mW (20.11dBm)
	n78 (Channel Bandwidth 80MHz)	293.765mW (24.68dBm)	296.483mW (24.72dBm)	232.274mW (23.66dBm)	164.816mW (22.17dBm)	103.992mW (20.17dBm)
	n78 (Channel Bandwidth 90MHz)	297.167mW (24.73dBm)	297.167mW (24.73dBm)	237.137mW (23.75dBm)	164.816mW (22.17dBm)	102.094mW (20.09dBm)
n78 (Channel Bandwidth 100MHz)	304.089mW (24.83dBm)	308.319mW (24.89dBm)	244.343mW (23.88dBm)	170.216mW (22.31dBm)	106.905mW (20.29dBm)	
Emission Designator		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n78 (Channel Bandwidth 20MHz)	18M1G7D	18M2G7D	18M2D7W	18M2D7W	18M2D7W
	n78 (Channel Bandwidth 30MHz)	27M6G7D	27M9G7D	27M9D7W	27M9D7W	27M9D7W
	n78 (Channel Bandwidth 40MHz)	37M5G7D	37M8G7D	37M8D7W	37M8D7W	37M8D7W
	n78 (Channel Bandwidth 50MHz)	47M1G7D	47M5G7D	47M5D7W	47M5D7W	47M5D7W
	n78 (Channel Bandwidth 60MHz)	57M9G7D	57M9G7D	57M9D7W	57M9D7W	57M9D7W
	n78 (Channel Bandwidth 70MHz)	67M0G7D	67M6G7D	67M6D7W	67M5D7W	67M6D7W
	n78 (Channel Bandwidth 80MHz)	77M2G7D	77M5G7D	77M5D7W	77M5D7W	77M5D7W
	n78 (Channel Bandwidth 90MHz)	86M9G7D	87M5G7D	87M5D7W	87M5D7W	87M6D7W
n78 (Channel Bandwidth 100MHz)	96M6G7D	97M6G7D	97M6D7W	97M6D7W	97M6D7W	

LTE Band

Modulation Type	QPSK, 16QAM, 64QAM, 256QAM		
Operating Frequency	LTE Band 2	Channel Bandwidth 1.4MHz	1850.7MHz ~ 1909.3MHz
		Channel Bandwidth 3MHz	1851.5MHz ~ 1908.5MHz
		Channel Bandwidth 5MHz	1852.5MHz ~ 1907.5MHz
		Channel Bandwidth 10MHz	1855.0MHz ~ 1905.0MHz
		Channel Bandwidth 15MHz	1857.5MHz ~ 1902.5MHz
		Channel Bandwidth 20MHz	1860.0MHz ~ 1900.0MHz
	LTE Band 4	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1754.3MHz
		Channel Bandwidth 3MHz	1711.5MHz ~ 1753.5MHz
		Channel Bandwidth 5MHz	1712.5MHz ~ 1752.5MHz
		Channel Bandwidth 10MHz	1715.0MHz ~ 1750.0MHz
		Channel Bandwidth 15MHz	1717.5MHz ~ 1747.5MHz
		Channel Bandwidth 20MHz	1720.0MHz ~ 1745.0MHz
	LTE Band 5	Channel Bandwidth 1.4MHz	824.7MHz ~ 848.3MHz
		Channel Bandwidth 3MHz	825.5MHz ~ 847.5MHz
		Channel Bandwidth 5MHz	826.5MHz ~ 846.5MHz
		Channel Bandwidth 10MHz	829.0MHz ~ 844.0MHz
	LTE Band 7	Channel Bandwidth 5MHz	2502.5MHz ~ 2567.5MHz
		Channel Bandwidth 10MHz	2505.0MHz ~ 2565.0MHz
		Channel Bandwidth 15MHz	2507.5MHz ~ 2562.5MHz
		Channel Bandwidth 20MHz	2510.0MHz ~ 2560.0MHz
	LTE Band 12	Channel Bandwidth 1.4MHz	699.7MHz ~ 715.3MHz
		Channel Bandwidth 3MHz	700.5MHz ~ 714.5MHz
		Channel Bandwidth 5MHz	701.5MHz ~ 713.5MHz
		Channel Bandwidth 10MHz	704.0MHz ~ 711.0MHz
	LTE Band 13	Channel Bandwidth 5MHz	779.5MHz ~ 784.5MHz
		Channel Bandwidth 10MHz	782.0MHz
	LTE Band 38	Channel Bandwidth 5MHz	2572.5MHz ~ 2617.5MHz
		Channel Bandwidth 10MHz	2575.0MHz ~ 2615.0MHz
		Channel Bandwidth 15MHz	2577.5MHz ~ 2612.5MHz
		Channel Bandwidth 20MHz	2580.0MHz ~ 2610.0MHz
	LTE Band 66	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1779.3MHz
		Channel Bandwidth 3MHz	1711.5MHz ~ 1778.5MHz
		Channel Bandwidth 5MHz	1712.5MHz ~ 1777.5MHz
		Channel Bandwidth 10MHz	1715.0MHz ~ 1775.0MHz
		Channel Bandwidth 15MHz	1717.5MHz ~ 1772.5MHz
		Channel Bandwidth 20MHz	1720.0MHz ~ 1770.0MHz
	LTE Band 71	Channel Bandwidth 5MHz	665.5MHz ~ 695.5MHz
		Channel Bandwidth 10MHz	668.0MHz ~ 693.0MHz
		Channel Bandwidth 15MHz	670.5MHz ~ 690.5MHz
		Channel Bandwidth 20MHz	673.0MHz ~ 688.0MHz

Max. EIRP Power			QPSK	16QAM	64QAM	256QAM
	LTE Band 2	Channel Bandwidth 1.4MHz	161.808mW (22.09dBm)	134.586mW (21.29dBm)	106.660mW (20.28dBm)	49.774mW (16.97dBm)
		Channel Bandwidth 3MHz	159.221mW (22.02dBm)	135.831mW (21.33dBm)	104.954mW (20.21dBm)	50.003mW (16.99dBm)
		Channel Bandwidth 5MHz	159.221mW (22.02dBm)	129.420mW (21.12dBm)	102.802mW (20.12dBm)	48.529mW (16.86dBm)
		Channel Bandwidth 10MHz	153.815mW (21.87dBm)	135.831mW (21.33dBm)	99.312mW (19.97dBm)	47.753mW (16.79dBm)
		Channel Bandwidth 15MHz	157.761mW (21.98dBm)	137.088mW (21.37dBm)	107.399mW (20.31dBm)	49.545mW (16.95dBm)
		Channel Bandwidth 20MHz	164.816mW (22.17dBm)	133.660mW (21.26dBm)	106.414mW (20.27dBm)	50.933mW (17.07dBm)
	LTE Band 4	Channel Bandwidth 1.4MHz	147.571mW (21.69dBm)	124.165mW (20.94dBm)	101.391mW (20.06dBm)	45.186mW (16.55dBm)
		Channel Bandwidth 3MHz	146.218mW (21.65dBm)	129.122mW (21.11dBm)	99.083mW (19.96dBm)	47.973mW (16.81dBm)
		Channel Bandwidth 5MHz	144.877mW (21.61dBm)	120.226mW (20.80dBm)	99.541mW (19.98dBm)	45.604mW (16.59dBm)
		Channel Bandwidth 10MHz	145.546mW (21.63dBm)	121.060mW (20.83dBm)	100.925mW (20.04dBm)	48.417mW (16.85dBm)
		Channel Bandwidth 15MHz	148.936mW (21.73dBm)	125.314mW (20.98dBm)	100.231mW (20.01dBm)	47.315mW (16.75dBm)
		Channel Bandwidth 20MHz	149.624mW (21.75dBm)	126.765mW (21.03dBm)	104.954mW (20.21dBm)	47.315mW (16.75dBm)
	LTE Band 7	Channel Bandwidth 5MHz	220.800mW (23.44dBm)	186.209mW (22.70dBm)	155.955mW (21.93dBm)	62.951mW (17.99dBm)
		Channel Bandwidth 10MHz	222.844mW (23.48dBm)	188.799mW (22.76dBm)	153.462mW (21.86dBm)	64.863mW (18.12dBm)
		Channel Bandwidth 15MHz	223.872mW (23.50dBm)	186.209mW (22.70dBm)	152.055mW (21.82dBm)	71.614mW (18.55dBm)
		Channel Bandwidth 20MHz	224.905mW (23.52dBm)	199.986mW (23.01dBm)	150.661mW (21.78dBm)	66.222mW (18.21dBm)
	LTE Band 38	Channel Bandwidth 5MHz	247.742mW (23.94dBm)	207.491mW (23.17dBm)	159.221mW (22.02dBm)	76.384mW (18.83dBm)
		Channel Bandwidth 10MHz	248.886mW (23.96dBm)	213.304mW (23.29dBm)	161.436mW (22.08dBm)	77.983mW (18.92dBm)
		Channel Bandwidth 15MHz	245.471mW (23.90dBm)	209.894mW (23.22dBm)	159.221mW (22.02dBm)	78.163mW (18.93dBm)
		Channel Bandwidth 20MHz	250.035mW (23.98dBm)	213.796mW (23.30dBm)	157.036mW (21.96dBm)	81.658mW (19.12dBm)
	LTE Band 66	Channel Bandwidth 1.4MHz	147.911mW (21.70dBm)	121.619mW (20.85dBm)	97.724mW (19.90dBm)	42.267mW (16.26dBm)
		Channel Bandwidth 3MHz	146.893mW (21.67dBm)	123.880mW (20.93dBm)	101.158mW (20.05dBm)	45.082mW (16.54dBm)
		Channel Bandwidth 5MHz	147.571mW (21.69dBm)	122.462mW (20.88dBm)	97.949mW (19.91dBm)	44.463mW (16.48dBm)
		Channel Bandwidth 10MHz	148.936mW (21.73dBm)	123.310mW (20.91dBm)	102.329mW (20.10dBm)	44.157mW (16.45dBm)
Channel Bandwidth 15MHz		150.314mW (21.77dBm)	126.183mW (21.01dBm)	103.276mW (20.14dBm)	46.026mW (16.63dBm)	
Channel Bandwidth 20MHz		150.661mW (21.78dBm)	125.314mW (20.98dBm)	98.855mW (19.95dBm)	45.604mW (16.59dBm)	

Max. ERP Power	LTE Band 5	Channel Bandwidth 1.4MHz	107.895mW (20.33dBm)	92.897mW (19.68dBm)	66.681mW (18.24dBm)	33.037mW (15.19dBm)	
		Channel Bandwidth 3MHz	107.647mW (20.32dBm)	93.111mW (19.69dBm)	66.374mW (18.22dBm)	32.434mW (15.11dBm)	
		Channel Bandwidth 5MHz	107.895mW (20.33dBm)	90.365mW (19.56dBm)	64.269mW (18.08dBm)	32.137mW (15.07dBm)	
		Channel Bandwidth 10MHz	110.154mW (20.42dBm)	92.257mW (19.65dBm)	66.069mW (18.20dBm)	33.420mW (15.24dBm)	
	LTE Band 12	Channel Bandwidth 1.4MHz	103.039mW (20.13dBm)	87.297mW (19.41dBm)	67.608mW (18.30dBm)	33.420mW (15.24dBm)	
		Channel Bandwidth 3MHz	102.094mW (20.09dBm)	83.946mW (19.24dBm)	70.146mW (18.46dBm)	33.343mW (15.23dBm)	
		Channel Bandwidth 5MHz	101.391mW (20.06dBm)	81.846mW (19.13dBm)	71.285mW (18.53dBm)	31.550mW (14.99dBm)	
		Channel Bandwidth 10MHz	103.992mW (20.17dBm)	87.498mW (19.42dBm)	67.608mW (18.30dBm)	31.989mW (15.05dBm)	
	LTE Band 13	Channel Bandwidth 5MHz	59.704mW (17.76dBm)	52.360mW (17.19dBm)	40.551mW (16.08dBm)	19.409mW (12.88dBm)	
		Channel Bandwidth 10MHz	59.841mW (17.77dBm)	49.317mW (16.93dBm)	40.272mW (16.05dBm)	19.634mW (12.93dBm)	
	LTE Band 71	Channel Bandwidth 5MHz	44.668mW (16.50dBm)	38.994mW (15.91dBm)	30.903mW (14.90dBm)	14.421mW (11.59dBm)	
		Channel Bandwidth 10MHz	44.668mW (16.50dBm)	37.239mW (15.71dBm)	30.690mW (14.87dBm)	14.488mW (11.61dBm)	
		Channel Bandwidth 15MHz	44.668mW (16.50dBm)	37.670mW (15.76dBm)	29.923mW (14.76dBm)	14.555mW (11.63dBm)	
		Channel Bandwidth 20MHz	44.771mW (16.51dBm)	37.931mW (15.79dBm)	30.832mW (14.89dBm)	14.454mW (11.60dBm)	
	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: 7.74 Vdc, 15.2 Wh
Adapter	AOHAI	A320Q-200325C-US	I/P: 100-240Vac, 50/60Hz, 1.5A O/P: 5 Vdc, 3 A; 9 Vdc, 3 A; 12 Vdc, 3A; 15 Vdc, 3 A; 20 Vdc, 3.25 A
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+lpex	610-960MHz, 1710-2690MHz
Ant 1	ASUS	ZS675KW	PIFA	LCP+lpex	1427-1510MHz, 1710-2690MHz
Ant 2	ASUS	ZS675KW	PIFA	LCP+lpex	610-960MHz, 1427-1510MHz, 1710-2690MHz
Ant 3	INPAQ	ZS675KW	PIFA	lpex	1575-1610MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 4	INPAQ	ZS675KW	PIFA	lpex	1176±10MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 5	INPAQ	ZS675KW	PIFA	LCP+lpex	3300-4000MHz, 4400-5000MHz
Ant 6	INPAQ	ZS675KW	PIFA	lpex	1427-1510MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 7	INPAQ	ZS675KW	PIFA	LCP+lpex	3300-4000MHz, 4400-5000MHz
Ant 8	ASUS	ZS675KW	PIFA	LCP+lpex	1427-1510MHz, 1710-2690MHz
Ant 9	ASUS	ZS675KW	PIFA	LCP+lpex	1710-2690MHz
Ant 10	INPAQ	ZS675KW	PIFA	lpex	3300-4000MHz, 4400-5000MHz
Ant 11	INPAQ	ZS675KW	PIFA	lpex	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

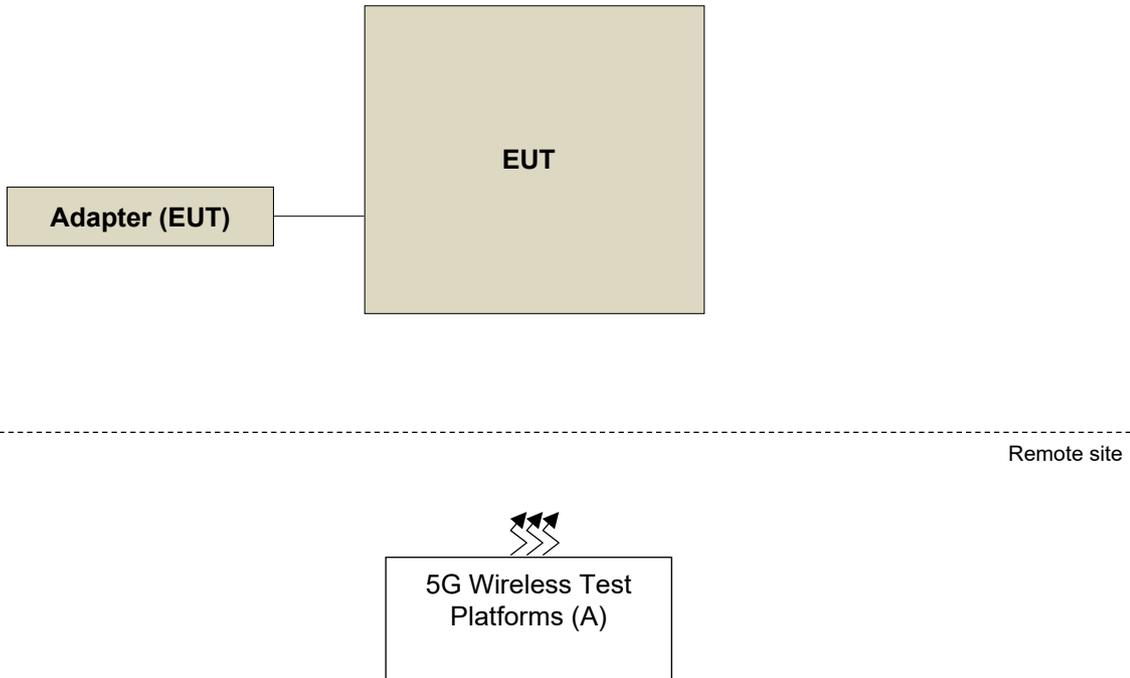
5G FR1 Band													
Band	Freq. Range (MHz)	Gain (dBi)											
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 5	Ant. 6	Ant. 7	Ant. 8	Ant. 9	Ant. 10	Ant. 11
n2	1850 ~ 1910		-1.887	-1.394						-2.89579	-1.804		
n5	824 ~ 849	-1.891		-4.526									
n7	2500 ~ 2570		0.185	-0.657						-0.50837	-1.117		
n12	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. The EUT supports the following ENDC configuration.

5G NR	FCC 5G FR1			ENDC
	Band	SCS	Bandwidth (MHz)	
	n2	15kHz	5/10/15/20	Band 5/12/13/14/30/66
	n5	15kHz	5/10/15/20	Band 2/7/12/30/48/66
	n7	15kHz	5/10/15/20	Band 2/5/12/13/66
	n12	15kHz	5/10/15	Band 2/66
	n14	15kHz	5/10	Band 2
	n25	15kHz	5/10/15/20/25/30/40	Band 12/66
	n30	15kHz	5/10	Band 2/5/66
	n38	30kHz	20/30/40	Band 2/4/5/12/66/71
	n41	30kHz	20/30/40/50/60/80/90/100	Band 2/4/12/25/26/66
	n66	15kHz	5/10/15/20/30/40	Band 2/5/7/12/13/14/30/48/71
	n71	15kHz	5/10/15/20	Band 2/7/66
	n77	30kHz	20/30/40/50/60/70/80/90/100	Band 7/41
	n78	30kHz	20/30/40/50/60/70/80/90/100	Band 2/4/5/7/12/13/38/66/71

3.2 Configuration of System under Test



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	5G Wireless Test Platforms	Keysight	E7515B	MY58300759	NA	-

Note:

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

3.3 Test Mode Applicability and Tested Channel Detail

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

n78

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	647334 to 652666	647334 (3710.01MHz), 650000 (3750.00MHz), 652666 (3789.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 26 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 13 RB Offset 25 RB / 26 RB Offset 50 RB / 0 RB Offset
		647668 to 652332	647668 (3715.02MHz), 650000 (3750.00MHz), 652332 (3784.98MHz)	30MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 39 RB Offset 1 RB / 76 RB Offset 36 RB / 0 RB Offset 36 RB / 21 RB Offset 36 RB / 42 RB Offset 75 RB / 0 RB Offset
		648000 to 652000	648000 (3720.00MHz), 650000 (3750.00MHz), 652000 (3780.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 53 RB Offset 1 RB / 104 RB Offset 50 RB / 0 RB Offset 50 RB / 28 RB Offset 50 RB / 56 RB Offset 100 RB / 0 RB Offset
		648334 to 651666	648334 (3725.01MHz), 650000 (3750.00MHz), 651666 (3774.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 67 RB Offset 1 RB / 131 RB Offset 64 RB / 0 RB Offset 64 RB / 35 RB Offset 64 RB / 69 RB Offset 128 RB / 0 RB Offset
		648668 to 651332	648668 (3730.02MHz), 650000 (3750.00MHz), 651332 (3769.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 81 RB Offset 1 RB / 160 RB Offset 81 RB / 0 RB Offset 81 RB / 41 RB Offset 81 RB / 81 RB Offset 162 RB / 0 RB Offset
		649000 to 651000	649000 (3735.00MHz), 650000 (3750.00MHz), 651000 (3765.00MHz)	70MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 95 RB Offset 1 RB / 187 RB Offset 90 RB / 0 RB Offset 90 RB / 50 RB Offset 90 RB / 99 RB Offset 180 RB / 0 RB Offset
		649334 to 650666	649334 (3740.01MHz), 650000 (3750.00MHz), 650666 (3759.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 109 RB Offset 1 RB / 215 RB Offset 108 RB / 0 RB Offset 108 RB / 55 RB Offset 108 RB / 109 RB Offset 216 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	649668 to 650332	649668 (3745.02MHz), 650000 (3750.00MHz), 650332 (3754.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 123 RB Offset 1 RB / 243 RB Offset 120 RB / 0 RB Offset 120 RB / 63 RB Offset 120 RB / 125 RB Offset 243 RB / 0 RB Offset
		650000	650000 (3750.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 137 RB Offset 1 RB / 271 RB Offset 135 RB / 0 RB Offset 135 RB / 69 RB Offset 135 RB / 138 RB Offset 270 RB / 0 RB Offset
-	Modulation Characteristics	650000	650000 (3750.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset
-	Frequency Stability	647334 to 652666	647334 (3710.01MHz), 652666 (3789.99MHz)	20MHz	QPSK	51 RB / 0 RB Offset
		647668 to 652332	647668 (3715.02MHz), 652332 (3784.98MHz)	30MHz	QPSK	78 RB / 0 RB Offset
		648000 to 652000	648000 (3720.00MHz), 652000 (3780.00MHz)	40MHz	QPSK	106 RB / 0 RB Offset
		648334 to 651666	648334 (3725.01MHz), 651666 (3774.99MHz)	50MHz	QPSK	133 RB / 0 RB Offset
		648668 to 651332	648668 (3730.02MHz), 651332 (3769.98MHz)	60MHz	QPSK	162 RB / 0 RB Offset
		649000 to 651000	649000 (3735.00MHz), 651000 (3765.00MHz)	70MHz	QPSK	189 RB / 0 RB Offset
		649334 to 650666	649334 (3740.01MHz), 650666 (3759.99MHz)	80MHz	QPSK	217 RB / 0 RB Offset
		649668 to 650332	649668 (3745.02MHz), 650332 (3754.98MHz)	90MHz	QPSK	245 RB / 0 RB Offset
		650000	650000 (3750.00MHz)	100MHz	QPSK	273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Emission Bandwidth	647334 to 652666	647334 (3710.01MHz), 650000 (3750.00MHz), 652666 (3789.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	51 RB / 0 RB Offset
		647668 to 652332	647668 (3715.02MHz), 650000 (3750.00MHz), 652332 (3784.98MHz)	30MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	78 RB / 0 RB Offset
		648000 to 652000	648000 (3720.00MHz), 650000 (3750.00MHz), 652000 (3780.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset
		648334 to 651666	648334 (3725.01MHz), 650000 (3750.00MHz), 651666 (3774.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	133 RB / 0 RB Offset
		648668 to 651332	648668 (3730.02MHz), 650000 (3750.00MHz), 651332 (3769.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	162 RB / 0 RB Offset
		649000 to 651000	649000 (3735.00MHz), 650000 (3750.00MHz), 651000 (3765.00MHz)	70MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	189 RB / 0 RB Offset
		649334 to 650666	649334 (3740.01MHz), 650000 (3750.00MHz), 650666 (3759.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	217 RB / 0 RB Offset
		649668 to 650332	649668 (3745.02MHz), 650000 (3750.00MHz), 650332 (3754.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	245 RB / 0 RB Offset
		650000	650000 (3750.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	647334 to 652666	647334 (3710.01MHz), 652666 (3789.99MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 50 RB Offset 51 RB / 0 RB Offset
		647668 to 652332	647668 (3715.02MHz), 652332 (3784.98MHz)	30MHz	QPSK	1 RB / 0 RB Offset 1 RB / 77 RB Offset 78 RB / 0 RB Offset
		648000 to 652000	648000 (3720.00MHz), 652000 (3780.00MHz)	40MHz	QPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
		648334 to 651666	648334 (3725.01MHz), 651666 (3774.99MHz)	50MHz	QPSK	1 RB / 0 RB Offset 1 RB / 132 RB Offset 133 RB / 0 RB Offset
		648668 to 651332	648668 (3730.02MHz), 651332 (3769.98MHz)	60MHz	QPSK	1 RB / 0 RB Offset 1 RB / 161 RB Offset 162 RB / 0 RB Offset
		649000 to 651000	649000 (3735.00MHz), 651000 (3765.00MHz)	70MHz	QPSK	1 RB / 0 RB Offset 1 RB / 188 RB Offset 189 RB / 0 RB Offset
		649334 to 650666	649334 (3740.01MHz), 650666 (3759.99MHz)	80MHz	QPSK	1 RB / 0 RB Offset 1 RB / 216 RB Offset 217 RB / 0 RB Offset
		649668 to 650332	649668 (3745.02MHz), 650332 (3754.98MHz)	90MHz	QPSK	1 RB / 0 RB Offset 1 RB / 244 RB Offset 245 RB / 0 RB Offset
		650000	650000 (3750.00MHz)	100MHz	QPSK	1 RB / 0 RB Offset 1 RB / 272 RB Offset 273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Peak to Average Ratio	647334 to 652666	647334 (3710.01MHz), 650000 (3750.00MHz), 652666 (3789.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		647668 to 652332	647668 (3715.02MHz), 650000 (3750.00MHz), 652332 (3784.98MHz)	30MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648000 to 652000	648000 (3720.00MHz), 650000 (3750.00MHz), 652000 (3780.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648334 to 651666	648334 (3725.01MHz), 650000 (3750.00MHz), 651666 (3774.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		648668 to 651332	648668 (3730.02MHz), 650000 (3750.00MHz), 651332 (3769.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		649000 to 651000	649000 (3735.00MHz), 650000 (3750.00MHz), 651000 (3765.00MHz)	70MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		649334 to 650666	649334 (3740.01MHz), 650000 (3750.00MHz), 650666 (3759.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		649668 to 650332	649668 (3745.02MHz), 650000 (3750.00MHz), 650332 (3754.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		650000	650000 (3750.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	647334 to 652666	647334 (3710.01MHz), 650000 (3750.00MHz), 652666 (3789.99MHz)	20MHz	QPSK	1 RB / 1 RB Offset
		647668 to 652332	647668 (3715.02MHz), 650000 (3750.00MHz), 652332 (3784.98MHz)	30MHz	QPSK	1 RB / 1 RB Offset
		648000 to 652000	648000 (3720.00MHz), 650000 (3750.00MHz), 652000 (3780.00MHz)	40MHz	QPSK	1 RB / 1 RB Offset
		648334 to 651666	648334 (3725.01MHz), 650000 (3750.00MHz), 651666 (3774.99MHz)	50MHz	QPSK	1 RB / 1 RB Offset
		648668 to 651332	648668 (3730.02MHz), 650000 (3750.00MHz), 651332 (3769.98MHz)	60MHz	QPSK	1 RB / 1 RB Offset
		649000 to 651000	649000 (3735.00MHz), 650000 (3750.00MHz), 651000 (3765.00MHz)	70MHz	QPSK	1 RB / 1 RB Offset
		649334 to 650666	649334 (3740.01MHz), 650000 (3750.00MHz), 650666 (3759.99MHz)	80MHz	QPSK	1 RB / 1 RB Offset
		649668 to 650332	649668 (3745.02MHz), 650000 (3750.00MHz), 650332 (3754.98MHz)	90MHz	QPSK	1 RB / 1 RB Offset
		650000	650000 (3750.00MHz)	100MHz	QPSK	1 RB / 1 RB Offset
-	Radiated Emission Below 1GHz	650000	650000 (3750.00MHz)	100MHz	QPSK	1 RB / 1 RB Offset
-	Radiated Emission Above 1GHz	647334 to 652666	647334 (3710.01MHz), 650000 (3750.00MHz), 652666 (3789.99MHz)	20MHz	QPSK	1 RB / 1 RB Offset
		648334 to 651666	648334 (3725.01MHz), 650000 (3750.00MHz), 651666 (3774.99MHz)	50MHz	QPSK	1 RB / 1 RB Offset
		650000	650000 (3750.00MHz)	100MHz	QPSK	1 RB / 1 RB Offset

Note:

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

LTE Band 2

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607 (1850.70MHz), 18900 (1880.00MHz), 19193 (1909.30MHz)	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
		18615 to 19185	18615 (1851.50MHz), 18900 (1880.00MHz), 19185 (1908.50MHz)	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
		18625 to 19175	18625 (1852.50MHz), 18900 (1880.00MHz), 19175 (1907.50MHz)	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
		18650 to 19150	18650 (1855.00MHz), 18900 (1880.00MHz), 19150 (1905.00MHz)	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
		18675 to 19125	18675 (1857.50MHz), 18900 (1880.00MHz), 19125 (1902.50MHz)	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
		18700 to 19100	18700 (1860.00MHz), 18900 (1880.00MHz), 19100 (1900.00MHz)	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
-	Radiated Emission Below 1GHz	18625 to 19175	19175 (1907.50MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	18607 to 19193	18607 (1850.70MHz), 18900 (1880.00MHz), 19193 (1909.30MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625 (1852.50MHz), 18900 (1880.00MHz), 19175 (1907.50MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700 (1860.00MHz), 18900 (1880.00MHz), 19100 (1900.00MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. The conducted output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, only 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.
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. For radiated emissions below 1 GHz, 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
-	Radiated Emission Below 1GHz	19975 to 20375	20375 (1752.5MHz)	5MHz	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	1 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20175 (1732.5MHz), 20375 (1752.5MHz)	5MHz	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

Note:

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

LTE Band 5

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	20407 to 20643	20407(824.7MHz), 20525(836.5MHz), 20643(848.3MHz)	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
		20415 to 20635	20415(825.5MHz), 20525(836.5MHz), 20635(847.5MHz)	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
		20425 to 20625	20425(826.5MHz), 20525(836.5MHz), 20625(846.5MHz)	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
		20450 to 20600	20450(829.0MHz), 20525(836.5MHz), 20600(844.0MHz)	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
-	Radiated Emission Below 1GHz	20425 to 20625	20625(846.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	20407 to 20643	20407(824.7MHz), 20525(836.5MHz), 20643(848.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20425(826.5MHz), 20525(836.5MHz), 20625(846.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20450(829.0MHz), 20525(836.5MHz), 20600(844.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

1. The conducted output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, only 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.
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. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing.

LTE Band 7

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	20775 to 21425	20775 (2502.5MHz), 21100 (2535.0MHz), 21425 (2567.5MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 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)	10 MHz	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)	15 MHz	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)	20 MHz	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
-	Radiated Emission Below 1GHz	20850 to 21350	21350 (2560.0MHz)	20 MHz	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. The conducted 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.
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. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing.

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(707.5 MHz), 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
-	Radiated Emission Below 1GHz	23017 to 23173	23095(707.5MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23017 to 23173	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

1. The conducted 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.
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. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing.

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
-	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. The conducted 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.
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. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing.

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

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
-	Radiated Emission Below 1GHz	132072 to 132572	132322 (1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, 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.
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. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.

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

Test Condition:

Test Item	Environmental Conditions	Input Power (system)	Tested By
ERP / EIRP	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	23deg. C, 67%RH 25deg. C, 65%RH	120Vac, 60Hz	Adiar Peng Tank Wu Noah Chang

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 22

FCC 47 CFR Part 24

FCC 47 CFR Part 27

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

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 n78:

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

For LTE Band 2:

Mobile / Portable station are limited to 2 watts e.i.r.p.

For LTE Band 4, LTE Band 66:

Mobile / Portable station are limited to 1 watts e.i.r.p.

For LTE Band 5:

Mobile / Portable station are limited to 7 watts e.r.p.

For LTE Band 7, LTE Band 38:

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

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

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

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

4.1.2 Test Procedures

Conducted Power Measurement:

The EUT was set up for the maximum power with 5GNR 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.

Maximum EIRP

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

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

where

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

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

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

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

NR Band 78:

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Mid		
		Channel		650000		
		Frequency (MHz)		3750		
100M	$\pi/2$ BPSK	1	1	24.83		
		1	137	24.76		
		1	271	24.70		
		135	0	24.74		
		135	69	24.70		
		135	138	24.62		
		270	0	24.75		
100M	BPSK	1	1	24.89		
		1	137	24.82		
		1	271	24.74		
		135	0	24.14		
		135	69	24.61		
		135	138	24.04		
		270	0	24.25		
100M	16QAM	1	1	23.88		
100M	64QAM	1	1	22.31		
100M	256QAM	1	1	20.29		
BW	MCS Index	Channel		649668	650000	650332
		Frequency (MHz)		3745.02	3750	3754.98
90M	$\pi/2$ BPSK	1	1	24.55	24.12	24.73
		1	123	24.55	24.13	24.70
		1	243	24.43	24.04	24.58
		120	0	24.54	24.42	24.54
		120	63	24.47	24.34	24.42
		120	125	24.47	24.26	24.39
		243	0	24.34	24.44	24.58
90M	BPSK	1	1	24.50	24.14	24.73
		1	123	24.54	24.09	24.71
		1	243	24.51	24.04	24.60
		120	0	24.10	23.95	24.03
		120	63	24.39	24.41	24.43
		120	125	23.98	23.81	23.89
		243	0	23.91	23.95	24.05
90M	16QAM	1	1	23.52	23.15	23.75
90M	64QAM	1	1	21.99	21.66	22.17
90M	256QAM	1	1	19.92	19.58	20.09

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		649334	650000	650666
		Frequency (MHz)		3740.01	3750	3759.99
80M	$\pi/2$ BPSK	1	1	24.56	24.07	24.68
		1	109	24.48	24.12	24.62
		1	215	24.49	24.04	24.60
		108	0	24.55	24.37	24.48
		108	55	24.39	24.37	24.36
		108	109	24.46	24.28	24.44
		216	0	24.36	24.42	24.56
80M	BPSK	1	1	24.58	24.09	24.72
		1	109	24.54	24.17	24.69
		1	215	24.48	24.06	24.64
		108	0	24.03	23.93	24.04
		108	55	24.38	24.40	24.43
		108	109	24.01	23.85	23.92
		216	0	23.84	24.00	24.11
80M	16QAM	1	1	23.54	23.22	23.66
80M	64QAM	1	1	22.02	21.69	22.17
80M	256QAM	1	1	19.98	19.56	20.17
BW	MCS Index	Channel		649000	650000	651000
		Frequency (MHz)		3735	3750	3765
70M	$\pi/2$ BPSK	1	1	24.58	24.14	24.66
		1	95	24.55	24.11	24.64
		1	187	24.45	24.12	24.66
		90	0	24.54	24.42	24.48
		90	50	24.46	24.39	24.35
		90	99	24.49	24.30	24.44
		180	0	24.35	24.40	24.55
70M	BPSK	1	1	24.57	24.10	24.67
		1	95	24.48	24.14	24.72
		1	187	24.49	24.06	24.61
		90	0	24.05	23.91	24.03
		90	50	24.45	24.41	24.44
		90	99	23.98	23.79	23.94
		180	0	23.86	23.95	24.04
70M	16QAM	1	1	23.53	23.20	23.66
70M	64QAM	1	1	22.03	21.59	22.20
70M	256QAM	1	1	20.02	19.63	20.11

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648668	650000	651332
		Frequency (MHz)		3730.02	3750	3769.98
60M	$\pi/2$ BPSK	1	1	24.53	24.15	24.72
		1	81	24.48	24.09	24.67
		1	160	24.48	24.09	24.64
		81	0	24.60	24.38	24.55
		81	41	24.38	24.40	24.39
		81	81	24.50	24.34	24.44
		162	0	24.35	24.40	24.57
60M	BBPSK	1	1	24.55	24.12	24.69
		1	81	24.50	24.12	24.64
		1	160	24.44	24.04	24.60
		81	0	24.08	23.89	23.98
		81	41	24.44	24.34	24.32
		81	81	23.95	23.75	23.91
		162	0	23.85	23.94	24.07
60M	16QAM	1	1	23.56	23.19	23.72
60M	64QAM	1	1	22.01	21.69	22.15
60M	256QAM	1	1	19.92	19.63	20.15
BW	MCS Index	Channel		648334	650000	651666
		Frequency (MHz)		3725.01	3750	3774.99
50M	$\pi/2$ BPSK	1	1	24.53	24.19	24.65
		1	67	24.49	24.10	24.72
		1	131	24.50	24.09	24.61
		64	0	24.34	24.39	24.37
		64	35	24.59	24.41	24.49
		64	69	24.52	24.29	24.41
		128	0	24.41	24.46	24.63
50M	BPSK	1	1	24.28	24.06	24.65
		1	67	24.52	24.16	24.71
		1	131	24.44	24.11	24.57
		64	0	24.09	23.95	24.03
		64	35	24.37	24.36	24.30
		64	69	24.02	23.81	23.85
		128	0	23.84	23.97	24.04
50M	16QAM	1	1	23.59	23.15	23.68
50M	64QAM	1	1	22.04	21.68	22.17
50M	256QAM	1	1	19.97	19.64	20.17

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648000	650000	652000
		Frequency (MHz)		3720	3750	3780
40M	$\pi/2$ BPSK	1	1	24.51	24.14	24.70
		1	53	24.48	24.19	24.68
		1	104	24.42	24.09	24.62
		50	0	24.60	24.39	24.54
		50	28	24.32	24.41	24.42
		50	56	24.42	24.33	24.37
		100	0	24.39	24.47	24.55
40M	BPSK	1	1	24.56	24.12	24.71
		1	53	24.47	24.11	24.68
		1	104	24.49	24.13	24.58
		50	0	24.07	23.86	24.05
		50	28	24.28	24.37	24.44
		50	56	23.98	23.75	23.89
		100	0	23.90	23.94	24.13
40M	16QAM	1	1	23.54	23.14	23.75
40M	64QAM	1	1	22.03	21.65	22.15
40M	256QAM	1	1	19.96	19.62	20.07
BW	MCS Index	Channel		647668	650000	652332
		Frequency (MHz)		3715.02	3750	3784.98
30M	$\pi/2$ BPSK	1	1	24.49	24.08	24.65
		1	39	24.47	24.10	24.58
		1	76	24.37	24.00	24.58
		36	0	24.58	24.38	24.52
		36	21	24.30	24.39	24.41
		36	42	24.35	24.31	24.28
		75	0	24.31	24.46	24.45
30M	BPSK	1	1	24.47	24.06	24.66
		1	39	24.46	24.02	24.62
		1	76	24.47	24.05	24.53
		36	0	24.03	23.78	24.05
		36	21	24.20	24.37	24.35
		36	42	23.96	23.72	23.85
		75	0	23.80	23.93	24.11
30M	16QAM	1	1	23.49	23.10	23.70
30M	64QAM	1	1	21.95	21.56	22.08
30M	256QAM	1	1	19.92	19.61	19.99

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647334	650000	652666
		Frequency (MHz)		3710.01	3750	3789.99
20M	$\pi/2$ BPSK	1	1	24.49	24.12	24.70
		1	26	24.44	24.18	24.62
		1	49	24.41	24.00	24.52
		25	0	24.58	24.29	24.49
		25	13	24.30	24.39	24.37
		25	26	24.39	24.33	24.31
		50	0	24.30	24.42	24.48
20M	BPSK	1	1	24.54	24.03	24.69
		1	26	24.46	24.09	24.60
		1	49	24.41	24.09	24.49
		25	0	24.01	23.80	23.98
		25	13	24.23	24.36	24.37
		25	26	23.92	23.68	23.84
		50	0	23.80	23.86	24.06
20M	16QAM	1	1	23.50	23.07	23.66
20M	64QAM	1	1	21.96	21.59	22.11
20M	256QAM	1	1	19.93	19.54	19.99

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	23.56	23.32	23.33
		1	50	23.48	23.31	23.32
		1	99	23.18	23.50	23.38
		50	0	22.62	22.58	22.38
		50	25	22.55	22.22	22.43
		50	50	22.39	22.54	22.48
		100	0	22.66	22.53	22.37
20M	16QAM	1	0	22.38	22.60	22.51
		1	50	22.65	22.37	22.43
		1	99	22.40	22.39	22.49
		50	0	21.56	21.33	21.33
		50	25	21.09	21.44	21.27
		50	50	21.63	21.46	21.38
		100	0	21.17	21.08	21.22
20M	64QAM	1	0	21.59	21.41	21.56
		1	50	21.25	21.26	21.66
		1	99	21.27	21.17	21.64
		50	0	20.72	20.20	20.62
		50	25	20.51	20.10	20.08
		50	50	20.36	20.22	20.06
		100	0	20.65	20.65	20.40
20M	256QAM	1	0	18.10	18.47	18.27
		1	50	18.07	18.17	18.46
		1	99	18.06	18.01	18.16
		50	0	18.06	17.82	17.87
		50	25	18.01	17.97	18.30
		50	50	18.21	18.13	18.12
		100	0	17.98	18.28	18.22

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	23.26	23.37	23.35
		1	37	23.26	23.24	23.15
		1	74	23.26	23.31	23.15
		36	0	22.64	22.31	22.71
		36	19	22.60	22.32	22.31
		36	39	22.32	22.63	22.73
		75	0	22.74	22.25	22.68
15M	16QAM	1	0	22.67	22.33	22.76
		1	37	22.53	22.69	22.16
		1	74	22.39	22.23	22.43
		36	0	21.46	21.41	21.31
		36	19	20.99	21.41	21.36
		36	39	21.45	21.44	21.26
		75	0	21.17	21.57	21.13
15M	64QAM	1	0	21.59	21.43	21.70
		1	37	21.45	21.61	21.23
		1	74	21.67	21.07	21.30
		36	0	20.17	20.33	20.12
		36	19	20.13	20.36	20.62
		36	39	20.01	20.10	20.59
		75	0	20.64	20.25	20.31
15M	256QAM	1	0	18.06	17.96	18.16
		1	37	18.25	18.16	17.83
		1	74	17.99	18.20	18.34
		36	0	17.49	16.88	17.48
		36	19	16.79	16.63	17.22
		36	39	17.51	17.22	17.33
		75	0	17.07	16.97	17.01

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	23.13	23.23	23.19
		1	24	23.17	23.19	23.17
		1	49	23.25	23.26	23.14
		25	0	22.19	22.07	22.44
		25	12	22.27	22.15	22.69
		25	25	22.32	22.38	22.50
		50	0	22.47	22.26	22.36
10M	16QAM	1	0	22.65	22.70	22.60
		1	24	22.18	22.17	22.22
		1	49	22.72	22.10	22.57
		25	0	21.09	21.43	21.21
		25	12	21.46	21.32	21.31
		25	25	21.49	21.32	21.28
		50	0	21.00	21.12	21.20
10M	64QAM	1	0	21.37	21.33	21.13
		1	24	20.98	21.32	21.26
		1	49	21.28	20.99	21.13
		25	0	20.41	20.02	20.49
		25	12	20.44	20.23	20.22
		25	25	20.24	20.56	19.92
		50	0	20.56	20.39	20.32
10M	256QAM	1	0	18.18	18.15	18.15
		1	24	17.64	18.14	17.74
		1	49	17.97	17.78	17.66
		25	0	17.17	16.68	16.88
		25	12	16.99	16.85	17.09
		25	25	17.24	16.78	17.21
		50	0	17.11	16.77	16.87

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	23.25	23.36	23.23
		1	12	23.29	23.39	22.99
		1	24	23.27	23.42	23.27
		12	0	22.20	22.10	22.66
		12	6	22.59	22.07	22.32
		12	13	22.26	22.40	22.54
		25	0	22.30	22.41	21.99
5M	16QAM	1	0	22.38	22.29	22.26
		1	12	22.50	22.23	22.25
		1	24	22.50	22.07	22.51
		12	0	21.52	21.08	21.47
		12	6	21.42	21.46	21.29
		12	13	21.34	21.34	21.44
		25	0	21.11	21.23	21.08
5M	64QAM	1	0	21.20	21.43	21.51
		1	12	21.48	21.49	21.41
		1	24	21.45	21.26	21.49
		12	0	20.15	20.05	20.30
		12	6	20.23	20.28	20.46
		12	13	20.40	19.93	20.18
		25	0	20.41	20.26	20.24
5M	256QAM	1	0	17.80	18.22	18.25
		1	12	17.81	18.03	17.61
		1	24	18.02	17.87	17.98
		12	0	16.99	17.05	16.92
		12	6	17.10	16.90	16.78
		12	13	16.64	16.62	16.65
		25	0	17.28	16.91	16.91

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	23.20	23.35	23.36
		1	7	23.23	23.33	23.08
		1	14	23.23	23.41	23.38
		8	0	22.57	22.11	22.04
		8	3	22.07	22.33	22.72
		8	7	22.48	22.13	22.27
		15	0	22.32	22.30	22.65
3M	16QAM	1	0	22.72	22.72	22.63
		1	7	22.32	22.49	22.41
		1	14	22.43	22.26	22.15
		8	0	21.20	21.33	21.28
		8	3	21.24	20.98	21.14
		8	7	21.40	21.03	21.45
		15	0	21.11	21.02	21.30
3M	64QAM	1	0	21.25	21.04	21.25
		1	7	21.60	21.25	21.50
		1	14	21.08	21.22	21.10
		8	0	20.41	20.05	20.11
		8	3	20.12	20.20	20.43
		8	7	19.97	20.37	20.11
		15	0	20.12	20.35	20.23
3M	256QAM	1	0	18.25	18.09	17.87
		1	7	18.23	17.76	18.20
		1	14	18.39	18.22	18.11
		8	0	16.83	17.13	16.99
		8	3	17.33	16.61	17.22
		8	7	17.21	17.13	16.90
		15	0	16.87	16.93	17.12

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	23.24	23.24	23.26
		1	2	23.33	23.24	23.23
		1	5	23.39	23.25	23.01
		3	0	23.48	23.42	23.17
		3	1	23.25	23.43	23.48
		3	3	23.36	23.00	23.07
		6	0	22.17	22.56	22.45
1.4M	16QAM	1	0	22.43	22.68	22.36
		1	2	22.17	22.28	22.07
		1	5	22.15	22.00	22.63
		3	0	22.13	22.39	22.61
		3	1	22.49	22.00	22.09
		3	3	22.39	22.53	22.44
		6	0	21.04	21.32	21.19
1.4M	64QAM	1	0	21.25	21.11	21.29
		1	2	21.21	21.38	21.68
		1	5	21.43	21.07	20.96
		3	0	21.00	21.29	21.57
		3	1	21.07	21.28	21.39
		3	3	21.44	20.95	20.96
		6	0	20.34	20.21	20.28
1.4M	256QAM	1	0	18.08	17.97	18.06
		1	2	18.02	17.94	18.36
		1	5	17.61	18.16	17.58
		3	0	18.23	18.01	18.21
		3	1	18.22	18.27	17.93
		3	3	18.21	17.98	17.56
		6	0	17.19	17.34	16.91

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	23.44	23.46	23.38
		1	50	23.13	23.19	23.34
		1	99	23.45	23.17	23.40
		50	0	22.39	22.61	22.82
		50	25	22.20	22.55	22.45
		50	50	22.35	22.69	22.43
		100	0	22.46	22.61	22.81
20M	16QAM	1	0	22.66	22.74	22.72
		1	50	22.74	22.50	22.45
		1	99	22.35	22.64	22.57
		50	0	21.77	21.49	21.39
		50	25	21.33	21.41	21.41
		50	50	21.28	21.79	21.36
		100	0	21.49	21.27	21.55
20M	64QAM	1	0	21.75	21.91	21.76
		1	50	21.68	21.78	21.62
		1	99	21.38	21.71	21.67
		50	0	20.62	20.44	20.86
		50	25	20.37	20.57	20.42
		50	50	20.73	20.70	20.40
		100	0	20.68	20.60	20.56
20M	256QAM	1	0	17.82	17.81	18.10
		1	50	17.95	18.46	18.00
		1	99	17.85	18.31	18.22
		50	0	17.02	17.39	17.48
		50	25	17.24	16.99	17.21
		50	50	16.81	16.84	17.56
		100	0	17.23	17.24	17.51

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	23.44	23.34	23.34
		1	37	23.37	23.18	23.38
		1	74	23.01	23.24	23.36
		36	0	22.13	22.41	22.72
		36	19	22.71	22.25	22.18
		36	39	22.55	22.65	22.22
		75	0	22.28	22.18	22.26
15M	16QAM	1	0	22.39	22.39	22.51
		1	37	22.42	22.21	22.40
		1	74	22.39	22.31	22.69
		36	0	21.35	21.67	21.61
		36	19	21.20	21.48	21.49
		36	39	21.26	21.60	21.31
		75	0	21.07	21.30	21.80
15M	64QAM	1	0	21.52	21.36	21.24
		1	37	21.29	21.46	21.66
		1	74	21.30	21.68	21.72
		36	0	20.81	20.58	20.78
		36	19	20.29	20.31	20.77
		36	39	20.54	20.23	20.38
		75	0	20.69	20.78	20.76
15M	256QAM	1	0	18.41	18.06	18.45
		1	37	18.06	17.90	18.27
		1	74	17.60	18.20	18.18
		36	0	16.77	17.39	17.34
		36	19	17.42	17.41	17.13
		36	39	17.10	16.72	16.97
		75	0	16.91	16.76	17.19

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	23.07	23.34	23.25
		1	24	23.01	23.30	23.34
		1	49	22.88	23.34	23.29
		25	0	22.37	22.30	22.29
		25	12	22.43	22.38	22.54
		25	25	22.33	22.53	22.68
		50	0	22.23	22.42	22.12
10M	16QAM	1	0	22.50	22.15	22.35
		1	24	22.18	22.33	22.20
		1	49	22.25	22.53	22.51
		25	0	21.37	21.18	21.17
		25	12	21.15	21.21	21.39
		25	25	21.41	21.68	21.57
		50	0	21.12	20.99	21.51
10M	64QAM	1	0	21.49	21.66	21.65
		1	24	21.37	21.75	21.40
		1	49	21.10	21.73	21.52
		25	0	20.14	20.57	20.12
		25	12	20.17	20.64	20.88
		25	25	20.64	20.68	20.27
		50	0	20.32	20.22	20.37
10M	256QAM	1	0	17.63	18.19	18.37
		1	24	17.68	17.87	18.27
		1	49	18.04	17.96	18.56
		25	0	17.05	17.03	16.96
		25	12	17.33	17.01	16.93
		25	25	16.91	17.19	17.25
		50	0	16.92	17.06	17.05

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	23.32	23.05	23.20
		1	12	23.00	23.10	23.27
		1	24	23.16	23.08	23.29
		12	0	22.45	22.49	22.34
		12	6	22.56	22.27	22.60
		12	13	22.10	22.35	22.20
		25	0	21.94	22.32	22.48
5M	16QAM	1	0	22.39	22.32	22.25
		1	12	22.33	22.17	22.51
		1	24	22.15	22.26	22.37
		12	0	21.13	21.66	21.68
		12	6	21.31	21.20	21.56
		12	13	21.26	21.49	21.20
		25	0	21.19	21.39	21.40
5M	64QAM	1	0	21.37	21.28	21.45
		1	12	21.28	21.53	21.44
		1	24	21.69	21.65	21.57
		12	0	20.24	20.26	20.73
		12	6	20.39	20.51	20.61
		12	13	20.26	20.39	20.59
		25	0	20.41	20.48	20.20
5M	256QAM	1	0	17.88	17.66	17.57
		1	12	17.73	18.29	18.03
		1	24	17.78	17.91	18.08
		12	0	16.90	16.75	17.01
		12	6	16.99	17.01	17.11
		12	13	16.85	16.85	17.03
		25	0	16.67	16.98	17.19

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	23.20	23.18	23.36
		1	7	23.10	23.29	23.20
		1	14	23.29	23.25	23.20
		8	0	22.29	22.75	22.29
		8	3	22.04	22.21	22.81
		8	7	22.29	22.30	22.33
		15	0	22.46	22.27	22.41
3M	16QAM	1	0	22.34	22.82	22.42
		1	7	22.52	22.39	22.61
		1	14	22.26	22.29	22.38
		8	0	21.52	21.68	21.42
		8	3	21.57	21.72	21.60
		8	7	21.51	21.64	21.56
		15	0	21.15	21.48	21.35
3M	64QAM	1	0	21.60	21.35	21.67
		1	7	21.32	21.17	21.21
		1	14	21.18	21.41	21.12
		8	0	20.27	20.23	20.66
		8	3	20.07	20.48	20.59
		8	7	20.43	20.12	20.22
		15	0	20.67	20.26	20.68
3M	256QAM	1	0	17.74	18.51	18.28
		1	7	17.93	17.78	18.01
		1	14	17.64	17.93	17.95
		8	0	16.83	16.70	16.86
		8	3	17.31	16.76	17.08
		8	7	16.84	17.09	17.13
		15	0	16.99	16.96	17.38

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	23.12	23.21	23.25
		1	2	23.14	23.22	23.30
		1	5	22.85	23.29	23.27
		3	0	23.13	23.22	23.30
		3	1	23.34	23.40	23.31
		3	3	23.07	23.09	22.94
		6	0	22.40	22.29	22.21
1.4M	16QAM	1	0	22.10	22.53	22.53
		1	2	22.05	22.65	22.36
		1	5	22.26	22.26	22.61
		3	0	22.09	22.52	22.22
		3	1	22.14	22.35	22.65
		3	3	22.05	22.20	22.58
		6	0	21.13	21.63	21.34
1.4M	64QAM	1	0	21.14	21.77	21.48
		1	2	21.34	21.47	21.72
		1	5	21.18	21.17	21.30
		3	0	21.57	21.59	21.48
		3	1	21.67	21.25	21.71
		3	3	21.20	21.18	21.53
		6	0	20.33	20.07	20.68
1.4M	256QAM	1	0	17.82	17.72	18.20
		1	2	17.81	17.88	18.26
		1	5	17.92	17.76	18.01
		3	0	17.59	17.93	18.24
		3	1	17.61	17.98	18.04
		3	3	17.92	18.11	18.23
		6	0	17.12	16.90	16.85

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	24.23	24.46	24.00
		1	24	24.34	24.38	24.04
		1	49	23.78	24.28	24.04
		25	0	23.62	23.62	23.59
		25	12	23.43	23.39	23.33
		25	25	23.38	23.41	23.25
		50	0	23.67	23.79	23.47
10M	16QAM	1	0	23.20	23.59	23.33
		1	24	23.06	23.69	23.19
		1	49	23.35	23.00	22.73
		25	0	22.30	22.38	22.52
		25	12	22.14	22.70	22.32
		25	25	21.97	22.20	22.14
		50	0	22.24	22.54	22.68
10M	64QAM	1	0	21.98	22.24	21.99
		1	24	21.69	21.97	22.07
		1	49	21.33	21.66	21.45
		25	0	21.20	21.36	20.90
		25	12	21.23	21.11	20.89
		25	25	20.47	20.83	20.49
		50	0	20.83	20.86	20.69
10M	256QAM	1	0	18.60	19.28	18.84
		1	24	18.57	18.88	18.80
		1	49	18.93	18.85	18.71
		25	0	17.92	18.39	18.07
		25	12	17.99	18.32	18.01
		25	25	17.81	17.92	17.71
		50	0	17.83	18.25	17.59

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	24.00	24.37	24.22
		1	12	23.90	24.32	24.08
		1	24	23.86	24.33	23.81
		12	0	22.87	23.37	23.08
		12	6	23.29	23.30	23.09
		12	13	22.86	23.21	22.91
		25	0	22.97	23.54	23.30
5M	16QAM	1	0	23.37	23.37	23.57
		1	12	23.22	23.14	23.60
		1	24	22.77	23.26	22.87
		12	0	22.50	22.45	22.36
		12	6	22.45	22.62	22.14
		12	13	22.15	22.40	22.25
		25	0	22.48	22.56	22.03
5M	64QAM	1	0	22.12	21.92	22.10
		1	12	22.10	21.90	21.86
		1	24	21.20	21.75	21.03
		12	0	20.98	21.19	21.04
		12	6	20.76	21.24	20.51
		12	13	20.32	20.49	20.11
		25	0	20.68	20.86	20.32
5M	256QAM	1	0	18.59	19.11	18.50
		1	12	18.88	18.70	18.64
		1	24	18.59	18.91	18.48
		12	0	17.97	18.09	17.94
		12	6	18.04	17.83	17.86
		12	13	17.54	17.95	17.60
		25	0	17.80	17.89	17.62

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	24.36	24.33	24.04
		1	7	24.25	24.32	24.31
		1	14	24.17	24.27	23.64
		8	0	22.83	23.13	23.36
		8	3	23.08	23.71	23.41
		8	7	23.22	23.57	22.97
		15	0	23.13	23.32	23.24
3M	16QAM	1	0	23.30	23.73	23.29
		1	7	22.94	23.48	23.62
		1	14	22.97	23.16	23.05
		8	0	22.54	22.71	22.58
		8	3	22.00	22.20	21.97
		8	7	22.37	22.29	22.27
		15	0	22.16	22.40	22.41
3M	64QAM	1	0	22.06	22.26	21.98
		1	7	22.07	21.86	21.88
		1	14	21.19	21.34	21.18
		8	0	21.20	21.42	20.70
		8	3	20.91	20.77	20.55
		8	7	20.14	20.71	20.26
		15	0	20.47	20.69	20.19
3M	256QAM	1	0	19.15	18.79	18.56
		1	7	18.51	18.66	18.45
		1	14	18.56	19.05	18.20
		8	0	18.02	18.08	18.10
		8	3	17.76	18.04	17.86
		8	7	17.43	18.08	17.52
		15	0	17.98	17.95	17.68

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	24.36	24.37	24.13
		1	2	24.29	24.23	24.17
		1	5	23.71	24.09	23.64
		3	0	24.15	24.20	24.30
		3	1	24.25	24.27	24.26
		3	3	24.32	24.30	23.75
		6	0	23.21	23.55	23.04
1.4M	16QAM	1	0	23.30	23.72	23.03
		1	2	23.54	23.28	23.25
		1	5	23.29	23.27	22.98
		3	0	23.56	23.32	23.44
		3	1	23.13	23.68	23.05
		3	3	23.02	23.18	23.17
		6	0	22.05	22.58	22.29
1.4M	64QAM	1	0	21.79	22.28	21.95
		1	2	21.72	22.14	21.71
		1	5	21.33	21.75	21.14
		3	0	21.91	22.07	22.11
		3	1	22.17	21.80	21.99
		3	3	21.01	21.76	21.22
		6	0	20.59	20.46	20.50
1.4M	256QAM	1	0	19.10	18.95	18.87
		1	2	19.10	19.23	18.42
		1	5	18.45	18.78	18.36
		3	0	18.60	19.13	18.58
		3	1	18.96	19.08	18.72
		3	3	18.93	18.92	18.64
		6	0	17.99	18.33	17.77

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	23.30	23.31	23.33
		1	50	23.30	23.21	23.27
		1	99	22.90	22.91	23.23
		50	0	22.54	22.30	22.36
		50	25	22.52	21.94	22.57
		50	50	21.95	21.91	22.58
		100	0	22.36	22.39	22.40
20M	16QAM	1	0	22.31	22.03	22.82
		1	50	22.18	21.84	22.35
		1	99	22.01	21.83	22.33
		50	0	21.20	20.98	21.70
		50	25	21.01	21.02	21.31
		50	50	20.97	21.23	21.27
		100	0	21.19	21.43	21.64
20M	64QAM	1	0	21.60	21.08	21.21
		1	50	21.26	21.50	21.48
		1	99	20.79	20.96	21.43
		50	0	20.29	20.12	20.25
		50	25	20.45	20.22	20.41
		50	50	20.08	20.05	20.39
		100	0	20.41	20.17	20.22
20M	256QAM	1	0	17.89	17.85	18.03
		1	50	17.60	17.66	17.94
		1	99	17.62	17.55	17.96
		50	0	17.06	16.74	17.44
		50	25	16.80	16.77	17.08
		50	50	16.74	16.57	16.62
		100	0	17.15	17.04	16.80

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	23.29	23.17	23.31
		1	37	22.75	22.80	23.31
		1	74	22.94	22.85	23.11
		36	0	22.36	22.18	22.70
		36	19	22.33	22.47	22.48
		36	39	22.13	22.35	22.30
		75	0	22.46	22.51	22.38
15M	16QAM	1	0	22.52	21.91	22.50
		1	37	22.21	21.88	21.97
		1	74	21.91	21.88	21.97
		36	0	21.09	21.18	21.29
		36	19	21.33	21.38	21.21
		36	39	21.19	20.87	21.35
		75	0	21.39	20.98	21.59
15M	64QAM	1	0	21.00	21.31	21.38
		1	37	20.98	21.24	21.64
		1	74	21.17	20.66	21.36
		36	0	20.45	19.96	20.53
		36	19	19.96	20.40	20.13
		36	39	19.94	19.98	20.03
		75	0	20.00	19.91	20.15
15M	256QAM	1	0	17.71	17.59	18.36
		1	37	17.73	17.64	17.82
		1	74	17.40	17.72	17.60
		36	0	16.57	16.69	16.91
		36	19	16.93	17.07	17.08
		36	39	16.92	16.93	17.09
		75	0	16.58	16.77	16.88

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	23.15	23.08	23.29
		1	24	23.21	22.68	22.95
		1	49	23.15	22.80	23.23
		25	0	22.41	21.89	22.24
		25	12	22.04	21.87	22.22
		25	25	21.87	22.23	22.11
		50	0	22.02	21.92	22.13
10M	16QAM	1	0	22.44	22.30	22.57
		1	24	21.62	21.86	22.36
		1	49	21.91	22.00	22.00
		25	0	21.10	21.35	21.56
		25	12	21.27	21.09	21.46
		25	25	21.10	21.01	20.89
		50	0	21.12	21.04	21.44
10M	64QAM	1	0	20.78	21.02	21.67
		1	24	20.96	21.37	21.49
		1	49	20.72	20.66	20.72
		25	0	20.05	19.82	20.63
		25	12	20.08	19.86	20.39
		25	25	19.69	19.80	20.11
		50	0	20.09	19.97	20.23
10M	256QAM	1	0	17.55	17.55	17.64
		1	24	17.93	17.44	17.47
		1	49	17.54	17.58	17.63
		25	0	16.42	16.42	17.36
		25	12	16.86	16.89	17.15
		25	25	16.58	16.63	16.95
		50	0	16.85	16.71	16.90

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	23.20	23.25	23.13
		1	12	23.01	23.03	23.10
		1	24	22.77	22.85	23.14
		12	0	22.35	21.85	22.58
		12	6	21.87	21.99	21.85
		12	13	21.89	22.23	22.16
		25	0	22.10	21.90	21.98
5M	16QAM	1	0	22.52	21.99	22.32
		1	12	22.17	21.97	21.76
		1	24	21.47	22.05	21.72
		12	0	21.20	21.19	21.23
		12	6	21.17	21.12	21.41
		12	13	21.33	21.28	21.44
		25	0	21.05	20.96	21.40
5M	64QAM	1	0	21.44	20.98	21.74
		1	12	21.15	21.15	21.28
		1	24	20.85	20.62	21.18
		12	0	20.48	20.13	20.55
		12	6	20.20	19.96	20.45
		12	13	20.22	20.25	19.98
		25	0	20.36	19.78	20.25
5M	256QAM	1	0	17.80	17.66	17.52
		1	12	17.71	17.22	17.68
		1	24	17.46	17.59	17.65
		12	0	16.75	17.03	16.87
		12	6	16.81	16.45	17.06
		12	13	16.90	17.03	16.62
		25	0	16.85	17.03	16.84

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	24.45	24.44	24.44
		1	12	24.40	24.09	24.44
		1	24	24.38	24.15	23.97
		12	0	23.25	23.27	23.07
		12	6	23.72	23.22	23.39
		12	13	23.40	23.13	23.47
		25	0	23.66	23.22	22.95
10M	16QAM	1	0	23.70	23.35	22.90
		1	12	23.27	22.87	22.83
		1	24	23.12	23.05	22.89
		12	0	22.43	22.42	22.26
		12	6	22.36	22.21	22.20
		12	13	22.90	22.38	22.19
		25	0	22.82	22.35	22.35
10M	64QAM	1	0	22.33	22.20	22.06
		1	12	22.59	21.92	22.40
		1	24	21.84	22.13	21.82
		12	0	21.15	20.95	20.88
		12	6	21.19	20.82	21.01
		12	13	21.48	20.78	20.86
		25	0	21.52	21.04	21.26
10M	256QAM	1	0	19.34	19.20	18.96
		1	12	19.18	18.75	18.89
		1	24	19.16	18.98	18.98
		12	0	17.77	17.66	17.59
		12	6	18.36	18.03	17.72
		12	13	18.16	18.02	18.28
		25	0	18.19	18.20	18.05

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	24.34	24.32	24.32
		1	12	24.25	24.02	24.30
		1	24	24.08	24.24	24.17
		12	0	23.20	23.47	22.92
		12	6	23.35	23.06	22.94
		12	13	23.53	23.32	23.11
		25	0	23.19	23.25	23.00
5M	16QAM	1	0	23.41	23.33	23.08
		1	12	23.13	23.10	23.35
		1	24	23.10	23.23	22.95
		12	0	22.82	22.60	22.31
		12	6	22.27	22.37	22.26
		12	13	22.67	22.22	22.23
		25	0	22.27	22.40	22.06
5M	64QAM	1	0	22.82	22.06	22.08
		1	12	22.69	22.29	22.22
		1	24	21.96	21.68	21.98
		12	0	21.43	20.80	21.13
		12	6	21.50	21.16	20.71
		12	13	20.97	20.73	21.05
		25	0	21.37	20.95	20.83
5M	256QAM	1	0	19.28	18.97	18.96
		1	12	19.02	18.85	18.61
		1	24	18.66	18.53	19.05
		12	0	18.19	17.78	17.63
		12	6	18.09	17.92	17.68
		12	13	17.89	17.82	17.75
		25	0	18.29	17.86	17.71

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	24.30	24.31	24.26
		1	7	24.26	24.37	24.27
		1	14	24.08	23.84	24.28
		8	0	23.25	22.83	23.25
		8	3	23.37	23.19	23.35
		8	7	23.26	22.89	23.01
		15	0	23.40	23.04	22.92
3M	16QAM	1	0	23.52	22.97	22.81
		1	7	23.33	23.16	23.30
		1	14	23.13	23.25	23.09
		8	0	22.30	22.13	21.97
		8	3	22.23	22.34	21.74
		8	7	22.62	22.28	22.21
		15	0	22.40	22.06	22.27
3M	64QAM	1	0	22.41	21.86	22.25
		1	7	22.75	22.31	21.69
		1	14	22.12	21.66	21.43
		8	0	20.95	20.97	20.82
		8	3	21.16	20.66	20.60
		8	7	21.31	21.00	20.88
		15	0	21.44	20.75	20.76
3M	256QAM	1	0	19.51	18.66	18.97
		1	7	19.37	18.96	18.72
		1	14	18.88	19.11	18.33
		8	0	17.99	17.57	17.89
		8	3	18.14	17.76	17.91
		8	7	18.11	17.54	17.50
		15	0	18.13	17.49	17.79

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	24.29	24.25	24.14
		1	2	24.26	24.25	23.95
		1	5	24.27	24.26	24.02
		3	0	24.28	24.32	24.06
		3	1	24.37	23.88	23.87
		3	3	24.41	24.34	23.83
		6	0	23.07	22.99	23.20
1.4M	16QAM	1	0	23.61	23.25	23.10
		1	2	22.90	23.12	22.77
		1	5	23.12	23.23	23.23
		3	0	23.69	23.44	23.40
		3	1	23.49	23.32	22.92
		3	3	23.24	23.48	23.30
		6	0	22.13	21.90	21.92
1.4M	64QAM	1	0	22.59	22.13	22.42
		1	2	22.54	21.80	21.80
		1	5	21.76	21.77	21.69
		3	0	22.28	21.75	21.90
		3	1	22.11	21.72	21.92
		3	3	22.17	21.92	21.90
		6	0	21.42	21.06	20.67
1.4M	256QAM	1	0	19.26	19.02	18.70
		1	2	19.07	18.79	18.89
		1	5	19.05	18.84	18.36
		3	0	19.43	18.76	18.51
		3	1	19.53	18.85	18.91
		3	3	18.90	18.84	18.36
		6	0	18.07	18.03	17.72

LTE Band 13				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	24.29
		1	24	24.27
		1	49	24.22
		25	0	23.55
		25	12	23.44
		25	25	23.44
		50	0	23.36
10M	16QAM	1	0	23.45
		1	24	23.29
		1	49	23.29
		25	0	22.85
		25	12	22.32
		25	25	22.57
		50	0	22.57
10M	64QAM	1	0	22.50
		1	24	22.56
		1	49	22.57
		25	0	21.72
		25	12	21.31
		25	25	21.23
		50	0	21.70
10M	256QAM	1	0	19.45
		1	24	18.83
		1	49	18.96
		25	0	17.69
		25	12	17.69
		25	25	17.95
		50	0	18.30

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	24.26	24.28	24.11
		1	12	24.11	24.23	24.21
		1	24	24.25	24.21	24.27
		12	0	23.09	23.61	23.18
		12	6	23.13	23.16	23.07
		12	13	23.52	23.50	23.59
		25	0	23.35	23.37	23.28
5M	16QAM	1	0	23.22	23.62	23.71
		1	12	23.55	23.40	23.06
		1	24	23.46	23.50	23.26
		12	0	22.42	22.45	22.21
		12	6	22.50	22.17	22.22
		12	13	22.65	22.28	22.51
		25	0	22.44	22.36	22.58
5M	64QAM	1	0	22.33	22.60	22.55
		1	12	22.12	22.44	22.45
		1	24	22.03	22.09	21.71
		12	0	21.26	21.79	21.08
		12	6	21.40	20.87	21.20
		12	13	21.38	21.57	21.32
		25	0	20.97	21.05	21.00
5M	256QAM	1	0	19.04	18.97	19.01
		1	12	19.31	19.40	18.85
		1	24	18.83	19.29	19.23
		12	0	17.83	18.14	17.81
		12	6	18.03	18.11	17.54
		12	13	18.02	17.77	18.06
		25	0	18.12	18.45	17.60

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	23.24	23.26	23.16
		1	50	22.99	23.25	23.24
		1	99	22.94	23.07	23.21
		50	0	22.22	22.73	22.30
		50	25	21.94	22.65	22.62
		50	50	22.28	22.13	22.11
		100	0	21.95	22.73	22.57
20M	16QAM	1	0	22.09	22.58	22.09
		1	50	22.36	22.33	22.35
		1	99	21.91	22.28	22.46
		50	0	21.44	21.53	21.34
		50	25	21.02	21.56	21.55
		50	50	21.30	21.34	21.45
		100	0	21.06	21.51	21.31
20M	64QAM	1	0	20.92	21.01	21.07
		1	50	21.13	20.88	21.06
		1	99	21.02	21.08	21.24
		50	0	20.06	20.24	20.71
		50	25	20.17	20.66	20.19
		50	50	19.94	20.67	20.57
		100	0	20.03	20.37	20.58
20M	256QAM	1	0	17.98	18.39	18.19
		1	50	17.94	17.97	18.08
		1	99	17.65	18.06	17.83
		50	0	17.06	16.75	16.85
		50	25	16.53	17.28	16.68
		50	50	16.65	17.41	16.79
		100	0	16.87	17.17	17.20

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	23.18	23.16	23.16
		1	37	22.92	22.92	23.11
		1	74	23.17	22.92	23.18
		36	0	22.21	22.59	22.59
		36	19	22.00	22.44	22.22
		36	39	22.07	22.13	22.14
		75	0	22.38	22.45	22.60
15M	16QAM	1	0	22.31	22.37	22.01
		1	37	22.20	22.50	22.06
		1	74	22.27	22.29	22.32
		36	0	21.27	21.62	21.21
		36	19	21.26	21.10	21.33
		36	39	21.33	21.66	21.13
		75	0	21.26	21.27	21.31
15M	64QAM	1	0	20.89	21.30	21.29
		1	37	20.65	21.14	20.91
		1	74	20.88	20.85	20.82
		36	0	20.51	20.14	20.43
		36	19	20.02	20.19	20.30
		36	39	20.41	20.38	20.18
		75	0	20.05	20.53	20.32
15M	256QAM	1	0	17.99	18.10	17.94
		1	37	17.56	17.94	17.74
		1	74	17.75	18.21	17.84
		36	0	16.46	17.21	17.14
		36	19	16.92	17.27	17.33
		36	39	16.97	17.12	16.88
		75	0	16.57	17.19	17.19

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	23.03	23.19	23.16
		1	24	22.99	23.24	23.21
		1	49	22.70	23.22	23.23
		25	0	22.14	22.29	22.61
		25	12	22.32	22.48	22.02
		25	25	22.19	22.04	22.47
		50	0	22.09	22.59	22.27
10M	16QAM	1	0	21.89	22.48	22.57
		1	24	21.93	21.98	22.38
		1	49	21.94	21.93	22.50
		25	0	21.19	21.26	21.03
		25	12	21.24	21.54	21.11
		25	25	21.14	21.40	21.30
		50	0	20.98	21.30	21.43
10M	64QAM	1	0	21.04	21.19	21.36
		1	24	20.58	21.00	21.17
		1	49	20.76	21.17	20.69
		25	0	20.15	20.35	20.44
		25	12	20.09	20.40	20.29
		25	25	20.00	20.45	20.65
		50	0	19.78	20.06	19.88
10M	256QAM	1	0	18.20	18.02	17.83
		1	24	17.25	18.14	18.06
		1	49	17.23	17.66	17.73
		25	0	16.68	16.98	17.12
		25	12	16.72	17.14	16.57
		25	25	16.99	17.17	17.20
		50	0	16.99	16.80	16.92

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	23.15	22.98	23.14
		1	12	23.03	23.07	22.80
		1	24	23.11	23.19	23.21
		12	0	22.17	22.50	22.02
		12	6	22.05	22.24	22.39
		12	13	21.90	22.54	22.38
		25	0	22.27	22.42	22.10
5M	16QAM	1	0	22.29	22.24	22.38
		1	12	21.92	22.44	22.04
		1	24	22.11	22.42	22.25
		12	0	21.34	21.08	21.30
		12	6	20.75	21.52	21.17
		12	13	21.22	21.29	21.14
		25	0	20.97	21.59	21.07
5M	64QAM	1	0	21.14	20.70	20.75
		1	12	20.76	21.12	21.29
		1	24	20.73	21.04	20.82
		12	0	20.14	20.08	20.27
		12	6	20.19	20.57	20.43
		12	13	19.86	20.48	20.50
		25	0	19.93	20.51	20.02
5M	256QAM	1	0	18.11	17.67	17.66
		1	12	17.59	17.84	18.07
		1	24	17.42	17.80	17.94
		12	0	16.80	17.27	17.08
		12	6	17.10	17.10	16.86
		12	13	16.67	17.02	16.69
		25	0	16.90	16.69	16.79

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	23.32	23.47	23.46
		1	50	22.99	23.43	23.45
		1	99	22.42	23.21	23.12
		50	0	22.03	22.32	22.80
		50	25	22.14	22.61	22.82
		50	50	22.27	22.41	22.52
		100	0	22.02	22.65	22.31
20M	16QAM	1	0	22.46	22.48	22.55
		1	50	22.15	22.19	22.66
		1	99	22.07	22.48	22.33
		50	0	21.06	21.73	21.56
		50	25	21.36	21.21	21.61
		50	50	21.04	21.15	21.15
		100	0	21.42	21.29	21.69
20M	64QAM	1	0	21.31	21.61	21.40
		1	50	21.10	21.63	21.41
		1	99	20.61	21.49	21.57
		50	0	20.56	20.67	20.28
		50	25	20.37	20.42	20.52
		50	50	20.43	20.58	20.33
		100	0	20.18	20.79	20.44
20M	256QAM	1	0	17.29	17.97	18.10
		1	50	17.66	18.08	18.27
		1	99	17.28	17.62	18.04
		50	0	16.57	17.04	17.25
		50	25	16.71	17.34	17.12
		50	50	16.84	17.19	17.32
		100	0	16.93	16.82	17.23

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	23.01	23.34	23.45
		1	37	22.76	23.28	23.38
		1	74	22.44	23.23	23.41
		36	0	22.48	22.44	22.81
		36	19	22.35	22.36	22.55
		36	39	22.28	22.22	22.54
		75	0	21.96	22.15	22.71
15M	16QAM	1	0	22.59	22.69	22.26
		1	37	22.21	22.15	22.69
		1	74	22.40	22.01	22.08
		36	0	20.99	21.37	21.52
		36	19	21.16	21.49	21.29
		36	39	21.39	21.13	21.20
		75	0	21.15	21.13	21.40
15M	64QAM	1	0	21.31	21.83	21.70
		1	37	20.95	21.63	21.24
		1	74	21.02	21.55	21.66
		36	0	20.55	20.46	20.36
		36	19	19.93	20.78	20.16
		36	39	19.97	20.82	20.53
		75	0	20.19	20.82	20.45
15M	256QAM	1	0	17.57	18.31	18.19
		1	37	17.31	17.93	17.99
		1	74	17.63	17.70	17.55
		36	0	16.88	16.76	17.38
		36	19	16.80	16.58	17.11
		36	39	17.05	16.89	16.85
		75	0	16.89	16.87	17.08

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	22.92	23.27	23.41
		1	24	22.61	23.23	23.22
		1	49	22.44	23.10	23.08
		25	0	21.89	22.07	22.49
		25	12	22.01	22.03	22.56
		25	25	21.84	22.15	22.33
		50	0	22.35	22.53	22.41
10M	16QAM	1	0	22.05	22.59	22.21
		1	24	22.01	22.09	22.14
		1	49	22.40	22.34	22.01
		25	0	20.93	21.62	21.01
		25	12	21.18	21.49	21.22
		25	25	21.23	21.10	21.44
		50	0	20.93	21.56	21.09
10M	64QAM	1	0	21.00	21.61	21.47
		1	24	20.92	21.26	21.79
		1	49	20.93	21.06	21.26
		25	0	20.35	20.51	20.10
		25	12	20.25	20.29	20.14
		25	25	19.87	20.83	20.43
		50	0	20.10	20.15	20.18
10M	256QAM	1	0	17.53	18.09	18.13
		1	24	17.80	17.81	17.78
		1	49	17.33	17.97	17.31
		25	0	16.91	16.74	17.01
		25	12	17.27	16.56	16.98
		25	25	16.42	16.69	17.00
		50	0	16.80	16.66	17.25

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	23.20	23.35	23.37
		1	12	23.22	23.34	23.19
		1	24	22.27	23.08	22.90
		12	0	22.33	22.47	22.57
		12	6	21.86	22.20	22.60
		12	13	22.28	22.12	22.17
		25	0	21.87	22.01	22.21
5M	16QAM	1	0	22.26	22.56	22.24
		1	12	22.31	22.05	22.29
		1	24	22.07	22.47	22.19
		12	0	21.37	21.36	21.17
		12	6	20.93	21.13	21.44
		12	13	21.26	21.46	21.34
		25	0	20.89	21.33	21.36
5M	64QAM	1	0	21.13	21.24	21.59
		1	12	20.73	21.52	21.59
		1	24	20.78	21.45	21.20
		12	0	19.99	20.38	20.22
		12	6	20.15	20.41	20.51
		12	13	20.07	20.59	20.47
		25	0	20.07	20.69	20.64
5M	256QAM	1	0	17.54	17.83	18.09
		1	12	17.90	18.16	18.16
		1	24	17.27	17.11	17.54
		12	0	16.53	16.72	17.00
		12	6	16.87	16.73	16.99
		12	13	16.80	17.07	16.73
		25	0	16.78	16.71	16.91

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	23.00	23.35	23.30
		1	7	22.94	23.09	23.25
		1	14	22.18	22.63	23.04
		8	0	21.93	22.13	22.57
		8	3	22.31	21.97	22.62
		8	7	22.25	22.08	22.45
		15	0	22.00	22.39	22.34
3M	16QAM	1	0	22.61	22.11	22.55
		1	7	22.03	21.91	22.60
		1	14	22.15	22.54	22.57
		8	0	21.15	21.50	21.18
		8	3	21.32	21.43	21.66
		8	7	21.20	21.11	21.16
		15	0	21.03	21.52	21.18
3M	64QAM	1	0	20.95	21.73	21.38
		1	7	20.96	21.67	21.64
		1	14	20.83	21.45	21.60
		8	0	20.10	20.53	20.56
		8	3	20.34	20.43	20.17
		8	7	20.32	20.68	20.40
		15	0	20.19	20.30	20.28
3M	256QAM	1	0	17.84	17.94	18.22
		1	7	17.76	17.94	18.01
		1	14	16.96	17.56	17.29
		8	0	16.86	16.90	17.07
		8	3	16.72	17.02	16.62
		8	7	16.69	17.03	16.93
		15	0	16.93	17.16	16.94

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	23.00	23.35	23.39
		1	2	22.95	23.00	23.36
		1	5	22.34	22.83	22.92
		3	0	22.83	23.27	23.25
		3	1	22.92	23.29	23.22
		3	3	23.01	23.25	23.20
		6	0	22.05	22.19	22.34
1.4M	16QAM	1	0	22.04	22.54	22.29
		1	2	22.20	22.01	22.19
		1	5	22.39	21.94	22.08
		3	0	21.86	22.18	22.14
		3	1	22.29	22.36	22.12
		3	3	22.06	22.44	22.53
		6	0	20.80	20.98	21.42
1.4M	64QAM	1	0	20.84	21.23	21.54
		1	2	20.77	21.58	21.58
		1	5	20.52	21.04	21.28
		3	0	21.16	21.30	21.35
		3	1	21.24	21.45	21.31
		3	3	21.06	21.46	21.50
		6	0	20.42	20.30	20.35
1.4M	256QAM	1	0	17.58	17.82	17.74
		1	2	17.31	17.95	17.70
		1	5	17.25	17.59	17.52
		3	0	17.87	17.80	17.88
		3	1	17.89	17.82	17.75
		3	3	17.86	17.70	17.70
		6	0	16.96	17.32	16.78

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	24.34	24.40	24.36
		1	50	24.32	24.21	24.34
		1	99	24.34	24.30	24.33
		50	0	23.56	23.23	23.64
		50	25	23.48	23.63	23.59
		50	50	23.65	23.22	23.49
		100	0	23.49	23.52	23.37
20M	16QAM	1	0	23.33	23.68	23.49
		1	50	23.68	23.55	23.58
		1	99	23.16	23.59	23.43
		50	0	22.22	22.55	22.73
		50	25	22.44	22.70	22.29
		50	50	22.18	22.46	22.12
		100	0	22.68	22.70	22.53
20M	64QAM	1	0	22.51	22.56	22.63
		1	50	22.72	22.36	22.71
		1	99	22.78	22.58	22.65
		50	0	21.59	21.61	21.36
		50	25	21.68	21.28	21.41
		50	50	21.61	21.70	21.50
		100	0	21.60	21.33	21.39
20M	256QAM	1	0	19.49	18.73	19.21
		1	50	18.84	18.80	18.90
		1	99	19.22	19.13	19.11
		50	0	18.27	18.54	17.79
		50	25	18.39	17.76	17.85
		50	50	17.95	17.94	17.89
		100	0	18.28	18.07	18.20

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	24.39	24.37	24.34
		1	37	24.33	24.27	24.34
		1	74	24.32	24.30	24.34
		36	0	23.48	23.67	23.69
		36	19	23.69	23.63	23.49
		36	39	23.15	23.19	23.38
		75	0	23.41	23.27	23.76
15M	16QAM	1	0	23.24	23.54	23.65
		1	37	23.44	23.43	23.38
		1	74	23.20	23.24	23.43
		36	0	22.49	22.41	22.59
		36	19	22.66	22.60	22.20
		36	39	22.50	22.39	22.25
		75	0	22.64	22.12	22.17
15M	64QAM	1	0	22.57	22.48	22.44
		1	37	22.33	22.13	22.65
		1	74	22.61	22.15	22.44
		36	0	21.36	21.13	21.16
		36	19	21.69	21.62	21.69
		36	39	21.60	21.54	21.44
		75	0	21.68	21.64	21.42
15M	256QAM	1	0	19.52	19.23	19.36
		1	37	18.87	19.34	19.17
		1	74	19.00	19.23	18.81
		36	0	18.00	17.97	18.21
		36	19	18.08	18.08	18.00
		36	39	17.96	17.94	18.23
		75	0	18.01	17.85	17.90

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	24.38	24.37	24.39
		1	24	24.36	24.35	24.33
		1	49	24.18	24.35	24.33
		25	0	23.19	23.21	23.30
		25	12	23.49	23.22	23.29
		25	25	23.27	23.54	23.16
		50	0	23.43	23.33	23.70
10M	16QAM	1	0	23.48	23.18	23.52
		1	24	23.30	23.30	23.60
		1	49	23.20	23.56	23.29
		25	0	22.18	22.59	22.65
		25	12	22.34	22.28	22.43
		25	25	22.09	22.17	22.34
		50	0	22.19	22.40	22.42
10M	64QAM	1	0	22.76	22.40	22.51
		1	24	22.33	22.21	22.52
		1	49	22.52	22.53	22.35
		25	0	21.72	21.29	21.28
		25	12	21.21	21.56	21.15
		25	25	21.34	21.56	21.02
		50	0	21.17	21.45	21.28
10M	256QAM	1	0	19.28	19.27	19.02
		1	24	19.50	19.16	18.72
		1	49	18.83	19.10	19.48
		25	0	17.86	18.13	18.31
		25	12	18.31	18.26	18.11
		25	25	17.87	17.94	18.10
		50	0	18.56	18.02	18.07

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	24.39	24.39	24.33
		1	12	24.33	24.25	24.33
		1	24	24.34	24.34	24.38
		12	0	23.56	23.37	23.22
		12	6	23.41	23.53	23.44
		12	13	23.56	23.30	23.44
		25	0	23.75	23.20	23.26
5M	16QAM	1	0	23.80	23.55	23.79
		1	12	23.28	23.37	23.33
		1	24	23.33	23.37	23.64
		12	0	22.28	22.30	22.71
		12	6	22.33	22.27	22.23
		12	13	22.28	22.11	22.17
		25	0	22.65	22.49	22.68
5M	64QAM	1	0	22.79	22.74	22.75
		1	12	22.19	22.39	22.62
		1	24	22.52	22.62	22.62
		12	0	21.67	21.15	21.59
		12	6	21.68	21.15	21.26
		12	13	21.54	21.53	21.21
		25	0	21.22	21.32	21.34
5M	256QAM	1	0	18.82	19.05	19.12
		1	12	19.13	19.48	19.24
		1	24	18.76	19.04	19.02
		12	0	17.96	17.95	18.01
		12	6	17.87	18.23	18.12
		12	13	17.85	17.80	18.07
		25	0	18.58	18.44	17.86

EIRP (dBm)

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Mid		
		Channel		650000		
		Frequency (MHz)		3750		
100M	$\pi/2$ BPSK	1	1	26.85		
		1	137	26.78		
		1	271	26.72		
		135	0	26.76		
		135	69	26.72		
		135	138	26.64		
		270	0	26.77		
100M	BPSK	1	1	26.91		
		1	137	26.84		
		1	271	26.76		
		135	0	26.16		
		135	69	26.63		
		135	138	26.06		
		270	0	26.27		
100M	16QAM	1	1	25.90		
100M	64QAM	1	1	24.33		
100M	256QAM	1	1	22.31		
BW	MCS Index	Channel		649668	650000	650332
		Frequency (MHz)		3745.02	3750	3754.98
90M	$\pi/2$ BPSK	1	1	26.57	26.14	26.75
		1	123	26.57	26.15	26.72
		1	243	26.45	26.06	26.60
		120	0	26.56	26.44	26.56
		120	63	26.49	26.36	26.44
		120	125	26.49	26.28	26.41
		243	0	26.36	26.46	26.60
90M	PSK	1	1	26.52	26.16	26.75
		1	123	26.56	26.11	26.73
		1	243	26.53	26.06	26.62
		120	0	26.12	25.97	26.05
		120	63	26.41	26.43	26.45
		120	125	26.00	25.83	25.91
		243	0	25.93	25.97	26.07
90M	16QAM	1	1	25.54	25.17	25.77
90M	64QAM	1	1	24.01	23.68	24.19
90M	256QAM	1	1	21.94	21.60	22.11

*EIRP = Conducted + antenna gain (2.017dBi)

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		649334	650000	650666
		Frequency (MHz)		3740.01	3750	3759.99
80M	$\pi/2$ BPSK	1	1	26.58	26.09	26.70
		1	109	26.50	26.14	26.64
		1	215	26.51	26.06	26.62
		108	0	26.57	26.39	26.50
		108	55	26.41	26.39	26.38
		108	109	26.48	26.30	26.46
		216	0	26.38	26.44	26.58
80M	PSK	1	1	26.60	26.11	26.74
		1	109	26.56	26.19	26.71
		1	215	26.50	26.08	26.66
		108	0	26.05	25.95	26.06
		108	55	26.40	26.42	26.45
		108	109	26.03	25.87	25.94
		216	0	25.86	26.02	26.13
80M	16QAM	1	1	25.56	25.24	25.68
80M	64QAM	1	1	24.04	23.71	24.19
80M	256QAM	1	1	22.00	21.58	22.19
BW	MCS Index	Channel		649000	650000	651000
		Frequency (MHz)		3735	3750	3765
70M	$\pi/2$ BPSK	1	1	26.60	26.16	26.68
		1	95	26.57	26.13	26.66
		1	187	26.47	26.14	26.68
		90	0	26.56	26.44	26.50
		90	50	26.48	26.41	26.37
		90	99	26.51	26.32	26.46
		180	0	26.37	26.42	26.57
70M	PSK	1	1	26.59	26.12	26.69
		1	95	26.50	26.16	26.74
		1	187	26.51	26.08	26.63
		90	0	26.07	25.93	26.05
		90	50	26.47	26.43	26.46
		90	99	26.00	25.81	25.96
		180	0	25.88	25.97	26.06
70M	16QAM	1	1	25.55	25.22	25.68
70M	64QAM	1	1	24.05	23.61	24.22
70M	256QAM	1	1	22.04	21.65	22.13

*EIRP = Conducted + antenna gain (2.017dBi)

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648668	650000	651332
		Frequency (MHz)		3730.02	3750	3769.98
60M	$\pi/2$ BPSK	1	1	26.55	26.17	26.74
		1	81	26.50	26.11	26.69
		1	160	26.50	26.11	26.66
		81	0	26.62	26.40	26.57
		81	41	26.40	26.42	26.41
		81	81	26.52	26.36	26.46
		162	0	26.37	26.42	26.59
60M	PSK	1	1	26.57	26.14	26.71
		1	81	26.52	26.14	26.66
		1	160	26.46	26.06	26.62
		81	0	26.10	25.91	26.00
		81	41	26.46	26.36	26.34
		81	81	25.97	25.77	25.93
		162	0	25.87	25.96	26.09
60M	16QAM	1	1	25.58	25.21	25.74
60M	64QAM	1	1	24.03	23.71	24.17
60M	256QAM	1	1	21.94	21.65	22.17
BW	MCS Index	Channel		648334	650000	651666
		Frequency (MHz)		3725.01	3750	3774.99
50M	$\pi/2$ BPSK	1	1	26.55	26.21	26.67
		1	67	26.51	26.12	26.74
		1	131	26.52	26.11	26.63
		64	0	26.36	26.41	26.39
		64	35	26.61	26.43	26.51
		64	69	26.54	26.31	26.43
		128	0	26.43	26.48	26.65
50M	PSK	1	1	26.30	26.08	26.67
		1	67	26.54	26.18	26.73
		1	131	26.46	26.13	26.59
		64	0	26.11	25.97	26.05
		64	35	26.39	26.38	26.32
		64	69	26.04	25.83	25.87
		128	0	25.86	25.99	26.06
50M	16QAM	1	1	25.61	25.17	25.70
50M	64QAM	1	1	24.06	23.70	24.19
50M	256QAM	1	1	21.99	21.66	22.19

*EIRP = Conducted + antenna gain (2.017dBi)

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		648000	650000	652000
		Frequency (MHz)		3720	3750	3780
40M	$\pi/2$ BPSK	1	1	26.53	26.16	26.72
		1	53	26.50	26.21	26.70
		1	104	26.44	26.11	26.64
		50	0	26.62	26.41	26.56
		50	28	26.34	26.43	26.44
		50	56	26.44	26.35	26.39
		100	0	26.41	26.49	26.57
40M	PSK	1	1	26.58	26.14	26.73
		1	53	26.49	26.13	26.70
		1	104	26.51	26.15	26.60
		50	0	26.09	25.88	26.07
		50	28	26.30	26.39	26.46
		50	56	26.00	25.77	25.91
		100	0	25.92	25.96	26.15
40M	16QAM	1	1	25.56	25.16	25.77
40M	64QAM	1	1	24.05	23.67	24.17
40M	256QAM	1	1	21.98	21.64	22.09
BW	MCS Index	Channel		647668	650000	652332
		Frequency (MHz)		3715.02	3750	3784.98
30M	$\pi/2$ BPSK	1	1	26.51	26.10	26.67
		1	39	26.49	26.12	26.60
		1	76	26.39	26.02	26.60
		36	0	26.60	26.40	26.54
		36	21	26.32	26.41	26.43
		36	42	26.37	26.33	26.30
		75	0	26.33	26.48	26.47
30M	PSK	1	1	26.49	26.08	26.68
		1	39	26.48	26.04	26.64
		1	76	26.49	26.07	26.55
		36	0	26.05	25.80	26.07
		36	21	26.22	26.39	26.37
		36	42	25.98	25.74	25.87
		75	0	25.82	25.95	26.13
30M	16QAM	1	1	25.51	25.12	25.72
30M	64QAM	1	1	23.97	23.58	24.10
30M	256QAM	1	1	21.94	21.63	22.01

*EIRP = Conducted + antenna gain (2.017dBi)

NR Band 78						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		647334	650000	652666
		Frequency (MHz)		3710.01	3750	3789.99
20M	$\pi/2$ BPSK	1	1	26.51	26.14	26.72
		1	26	26.46	26.20	26.64
		1	49	26.43	26.02	26.54
		25	0	26.60	26.31	26.51
		25	13	26.32	26.41	26.39
		25	26	26.41	26.35	26.33
		50	0	26.32	26.44	26.50
20M	PSK	1	1	26.56	26.05	26.71
		1	26	26.48	26.11	26.62
		1	49	26.43	26.11	26.51
		25	0	26.03	25.82	26.00
		25	13	26.25	26.38	26.39
		25	26	25.94	25.70	25.86
		50	0	25.82	25.88	26.08
20M	16QAM	1	1	25.52	25.09	25.68
20M	64QAM	1	1	23.98	23.61	24.13
20M	256QAM	1	1	21.95	21.56	22.01

*EIRP = Conducted + antenna gain (2.017dBi)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	22.17	21.93	21.94
		1	50	22.09	21.92	21.93
		1	99	21.79	22.11	21.98
		50	0	21.23	21.18	20.98
		50	25	21.15	20.82	21.04
		50	50	20.99	21.14	21.09
		100	0	21.27	21.14	20.98
20M	16QAM	1	0	20.98	21.21	21.12
		1	50	21.26	20.97	21.04
		1	99	21.01	21.00	21.10
		50	0	20.17	19.93	19.94
		50	25	19.69	20.04	19.88
		50	50	20.23	20.07	19.99
		100	0	19.78	19.69	19.82
20M	64QAM	1	0	20.20	20.02	20.17
		1	50	19.86	19.86	20.27
		1	99	19.87	19.78	20.25
		50	0	19.33	18.81	19.22
		50	25	19.12	18.71	18.69
		50	50	18.97	18.83	18.67
		100	0	19.26	19.26	19.01
20M	256QAM	1	0	16.71	17.07	16.87
		1	50	16.67	16.77	17.07
		1	99	16.67	16.62	16.77
		50	0	16.67	16.42	16.47
		50	25	16.62	16.58	16.91
		50	50	16.81	16.74	16.73
		100	0	16.59	16.88	16.83

*EIRP = Conducted + antenna gain (-1.394dBi)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	21.86	21.98	21.96
		1	37	21.87	21.84	21.76
		1	74	21.87	21.92	21.76
		36	0	21.24	20.92	21.32
		36	19	21.20	20.93	20.91
		36	39	20.92	21.24	21.33
		75	0	21.35	20.86	21.28
15M	16QAM	1	0	21.28	20.93	21.37
		1	37	21.14	21.29	20.76
		1	74	20.99	20.84	21.04
		36	0	20.07	20.01	19.92
		36	19	19.59	20.02	19.97
		36	39	20.06	20.04	19.87
		75	0	19.77	20.18	19.74
15M	64QAM	1	0	20.19	20.04	20.31
		1	37	20.06	20.22	19.84
		1	74	20.27	19.68	19.90
		36	0	18.77	18.94	18.73
		36	19	18.74	18.97	19.22
		36	39	18.62	18.70	19.20
		75	0	19.24	18.86	18.92
15M	256QAM	1	0	16.66	16.57	16.77
		1	37	16.86	16.77	16.43
		1	74	16.59	16.80	16.95
		36	0	16.10	15.49	16.09
		36	19	15.40	15.24	15.83
		36	39	16.11	15.83	15.93
		75	0	15.67	15.57	15.62

*EIRP = Conducted + antenna gain (-1.394dBi)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	21.73	21.84	21.80
		1	24	21.77	21.80	21.78
		1	49	21.86	21.87	21.75
		25	0	20.80	20.68	21.05
		25	12	20.88	20.76	21.30
		25	25	20.92	20.98	21.10
		50	0	21.07	20.87	20.97
10M	16QAM	1	0	21.26	21.31	21.20
		1	24	20.79	20.78	20.83
		1	49	21.33	20.71	21.18
		25	0	19.70	20.03	19.82
		25	12	20.06	19.92	19.92
		25	25	20.10	19.92	19.88
		50	0	19.61	19.72	19.80
10M	64QAM	1	0	19.97	19.94	19.74
		1	24	19.59	19.92	19.87
		1	49	19.89	19.59	19.73
		25	0	19.01	18.63	19.10
		25	12	19.04	18.84	18.83
		25	25	18.85	19.17	18.53
		50	0	19.17	18.99	18.92
10M	256QAM	1	0	16.79	16.76	16.75
		1	24	16.25	16.75	16.35
		1	49	16.57	16.38	16.27
		25	0	15.78	15.28	15.49
		25	12	15.59	15.46	15.69
		25	25	15.85	15.39	15.81
		50	0	15.72	15.38	15.47

*EIRP = Conducted + antenna gain (-1.394dBi)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	21.86	21.97	21.83
		1	12	21.90	22.00	21.60
		1	24	21.88	22.02	21.87
		12	0	20.81	20.70	21.27
		12	6	21.20	20.68	20.93
		12	13	20.87	21.01	21.15
		25	0	20.91	21.02	20.60
5M	16QAM	1	0	20.99	20.89	20.86
		1	12	21.11	20.84	20.86
		1	24	21.11	20.68	21.12
		12	0	20.13	19.69	20.07
		12	6	20.03	20.07	19.89
		12	13	19.95	19.95	20.04
		25	0	19.72	19.84	19.69
5M	64QAM	1	0	19.80	20.04	20.12
		1	12	20.08	20.10	20.01
		1	24	20.06	19.86	20.09
		12	0	18.76	18.65	18.91
		12	6	18.84	18.88	19.06
		12	13	19.01	18.53	18.78
		25	0	19.02	18.87	18.85
5M	256QAM	1	0	16.41	16.83	16.86
		1	12	16.42	16.64	16.21
		1	24	16.63	16.47	16.59
		12	0	15.60	15.66	15.53
		12	6	15.71	15.51	15.39
		12	13	15.25	15.23	15.26
		25	0	15.89	15.52	15.51

*EIRP = Conducted + antenna gain (-1.394dBi)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	21.80	21.96	21.97
		1	7	21.84	21.94	21.69
		1	14	21.84	22.02	21.99
		8	0	21.17	20.72	20.65
		8	3	20.68	20.94	21.33
		8	7	21.09	20.74	20.87
		15	0	20.93	20.91	21.26
3M	16QAM	1	0	21.33	21.33	21.24
		1	7	20.92	21.10	21.02
		1	14	21.04	20.87	20.76
		8	0	19.80	19.94	19.89
		8	3	19.85	19.59	19.74
		8	7	20.01	19.63	20.06
		15	0	19.71	19.63	19.91
3M	64QAM	1	0	19.85	19.65	19.86
		1	7	20.21	19.85	20.10
		1	14	19.68	19.82	19.71
		8	0	19.01	18.66	18.72
		8	3	18.73	18.81	19.04
		8	7	18.57	18.98	18.71
		15	0	18.72	18.96	18.84
3M	256QAM	1	0	16.85	16.70	16.48
		1	7	16.84	16.36	16.81
		1	14	16.99	16.82	16.72
		8	0	15.44	15.73	15.60
		8	3	15.94	15.21	15.83
		8	7	15.81	15.73	15.51
		15	0	15.48	15.53	15.73

*EIRP = Conducted + antenna gain (-1.394dBi)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	21.85	21.84	21.86
		1	2	21.94	21.85	21.84
		1	5	22.00	21.86	21.61
		3	0	22.09	22.03	21.78
		3	1	21.85	22.04	22.09
		3	3	21.97	21.61	21.68
		6	0	20.78	21.16	21.05
1.4M	16QAM	1	0	21.04	21.29	20.97
		1	2	20.77	20.89	20.68
		1	5	20.76	20.61	21.23
		3	0	20.74	21.00	21.22
		3	1	21.10	20.60	20.70
		3	3	20.99	21.13	21.05
		6	0	19.64	19.93	19.79
1.4M	64QAM	1	0	19.86	19.72	19.90
		1	2	19.81	19.98	20.28
		1	5	20.04	19.68	19.57
		3	0	19.61	19.89	20.17
		3	1	19.68	19.88	20.00
		3	3	20.04	19.55	19.56
		6	0	18.95	18.82	18.89
1.4M	256QAM	1	0	16.69	16.58	16.67
		1	2	16.63	16.55	16.97
		1	5	16.22	16.77	16.19
		3	0	16.84	16.62	16.82
		3	1	16.82	16.88	16.54
		3	3	16.81	16.59	16.17
		6	0	15.80	15.95	15.51

*EIRP = Conducted + antenna gain (-1.394dBi)

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	21.74	21.75	21.68
		1	50	21.43	21.49	21.63
		1	99	21.74	21.46	21.69
		50	0	20.68	20.91	21.12
		50	25	20.49	20.85	20.74
		50	50	20.65	20.99	20.72
		100	0	20.76	20.90	21.10
20M	16QAM	1	0	20.95	21.03	21.01
		1	50	21.03	20.80	20.74
		1	99	20.65	20.93	20.86
		50	0	20.06	19.78	19.69
		50	25	19.63	19.71	19.71
		50	50	19.57	20.08	19.65
		100	0	19.78	19.56	19.84
20M	64QAM	1	0	20.04	20.21	20.05
		1	50	19.97	20.07	19.91
		1	99	19.67	20.00	19.97
		50	0	18.92	18.73	19.15
		50	25	18.67	18.87	18.71
		50	50	19.02	19.00	18.69
		100	0	18.98	18.89	18.86
20M	256QAM	1	0	16.11	16.10	16.39
		1	50	16.25	16.75	16.29
		1	99	16.14	16.60	16.52
		50	0	15.31	15.69	15.77
		50	25	15.53	15.28	15.50
		50	50	15.10	15.13	15.85
		100	0	15.52	15.54	15.80

*EIRP = Conducted + antenna gain (-1.706dBi)

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	21.73	21.63	21.63
		1	37	21.66	21.47	21.67
		1	74	21.30	21.53	21.65
		36	0	20.42	20.70	21.02
		36	19	21.01	20.54	20.47
		36	39	20.85	20.95	20.52
		75	0	20.58	20.48	20.55
15M	16QAM	1	0	20.68	20.68	20.80
		1	37	20.71	20.50	20.69
		1	74	20.68	20.61	20.98
		36	0	19.65	19.97	19.91
		36	19	19.49	19.78	19.78
		36	39	19.56	19.90	19.60
		75	0	19.36	19.59	20.10
15M	64QAM	1	0	19.82	19.65	19.54
		1	37	19.58	19.75	19.96
		1	74	19.60	19.98	20.01
		36	0	19.10	18.87	19.08
		36	19	18.58	18.60	19.07
		36	39	18.83	18.53	18.67
		75	0	18.98	19.08	19.05
15M	256QAM	1	0	16.70	16.36	16.75
		1	37	16.36	16.19	16.57
		1	74	15.89	16.49	16.48
		36	0	15.06	15.68	15.63
		36	19	15.71	15.70	15.42
		36	39	15.40	15.01	15.27
		75	0	15.21	15.05	15.48

*EIRP = Conducted + antenna gain (-1.706dBi)

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	21.37	21.63	21.54
		1	24	21.30	21.59	21.63
		1	49	21.18	21.63	21.58
		25	0	20.66	20.59	20.58
		25	12	20.72	20.68	20.83
		25	25	20.62	20.82	20.97
		50	0	20.53	20.71	20.42
10M	16QAM	1	0	20.79	20.44	20.64
		1	24	20.47	20.62	20.49
		1	49	20.54	20.83	20.81
		25	0	19.66	19.47	19.46
		25	12	19.45	19.50	19.68
		25	25	19.71	19.97	19.86
		50	0	19.41	19.29	19.81
10M	64QAM	1	0	19.79	19.95	19.94
		1	24	19.66	20.04	19.70
		1	49	19.40	20.02	19.81
		25	0	18.44	18.86	18.41
		25	12	18.46	18.93	19.17
		25	25	18.93	18.97	18.57
		50	0	18.61	18.52	18.66
10M	256QAM	1	0	15.93	16.49	16.66
		1	24	15.97	16.16	16.56
		1	49	16.33	16.26	16.85
		25	0	15.35	15.32	15.25
		25	12	15.62	15.31	15.23
		25	25	15.20	15.48	15.54
		50	0	15.21	15.36	15.35

*EIRP = Conducted + antenna gain (-1.706dBi)

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	21.61	21.34	21.49
		1	12	21.30	21.39	21.56
		1	24	21.45	21.38	21.58
		12	0	20.74	20.79	20.64
		12	6	20.86	20.57	20.89
		12	13	20.40	20.65	20.50
		25	0	20.23	20.61	20.78
5M	16QAM	1	0	20.68	20.61	20.54
		1	12	20.62	20.46	20.80
		1	24	20.44	20.55	20.67
		12	0	19.43	19.96	19.97
		12	6	19.61	19.49	19.86
		12	13	19.55	19.78	19.49
		25	0	19.48	19.68	19.70
5M	64QAM	1	0	19.67	19.58	19.74
		1	12	19.57	19.83	19.73
		1	24	19.98	19.94	19.86
		12	0	18.53	18.55	19.02
		12	6	18.68	18.80	18.90
		12	13	18.55	18.69	18.89
		25	0	18.70	18.77	18.49
5M	256QAM	1	0	16.17	15.96	15.86
		1	12	16.02	16.59	16.33
		1	24	16.08	16.21	16.37
		12	0	15.20	15.05	15.30
		12	6	15.28	15.30	15.40
		12	13	15.15	15.14	15.32
		25	0	14.96	15.28	15.48

*EIRP = Conducted + antenna gain (-1.706dBi)

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	21.49	21.48	21.65
		1	7	21.39	21.59	21.49
		1	14	21.59	21.54	21.49
		8	0	20.58	21.04	20.59
		8	3	20.34	20.50	21.11
		8	7	20.59	20.59	20.63
		15	0	20.76	20.56	20.70
3M	16QAM	1	0	20.64	21.11	20.71
		1	7	20.82	20.68	20.91
		1	14	20.55	20.58	20.67
		8	0	19.81	19.98	19.71
		8	3	19.86	20.01	19.90
		8	7	19.80	19.93	19.85
		15	0	19.45	19.77	19.64
3M	64QAM	1	0	19.89	19.64	19.96
		1	7	19.61	19.46	19.50
		1	14	19.48	19.70	19.41
		8	0	18.56	18.52	18.95
		8	3	18.36	18.77	18.89
		8	7	18.72	18.41	18.51
		15	0	18.97	18.55	18.98
3M	256QAM	1	0	16.03	16.81	16.57
		1	7	16.22	16.08	16.30
		1	14	15.93	16.22	16.24
		8	0	15.12	15.00	15.15
		8	3	15.60	15.05	15.38
		8	7	15.13	15.39	15.42
		15	0	15.29	15.25	15.67

*EIRP = Conducted + antenna gain (-1.706dBi)

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	21.41	21.50	21.54
		1	2	21.43	21.51	21.60
		1	5	21.14	21.59	21.56
		3	0	21.42	21.51	21.59
		3	1	21.63	21.69	21.60
		3	3	21.36	21.38	21.23
		6	0	20.69	20.58	20.51
1.4M	16QAM	1	0	20.40	20.82	20.82
		1	2	20.34	20.94	20.65
		1	5	20.56	20.56	20.90
		3	0	20.38	20.81	20.51
		3	1	20.44	20.64	20.94
		3	3	20.34	20.49	20.87
		6	0	19.42	19.92	19.63
1.4M	64QAM	1	0	19.43	20.06	19.77
		1	2	19.63	19.76	20.01
		1	5	19.47	19.47	19.59
		3	0	19.86	19.89	19.77
		3	1	19.96	19.54	20.00
		3	3	19.49	19.47	19.83
		6	0	18.62	18.37	18.97
1.4M	256QAM	1	0	16.12	16.02	16.50
		1	2	16.11	16.17	16.55
		1	5	16.21	16.05	16.30
		3	0	15.88	16.22	16.53
		3	1	15.91	16.28	16.34
		3	3	16.21	16.41	16.52
		6	0	15.41	15.20	15.14

*EIRP = Conducted + antenna gain (-1.706dBi)

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	20.19	20.42	19.96
		1	24	20.30	20.34	20.00
		1	49	19.74	20.24	20.00
		25	0	19.58	19.58	19.55
		25	12	19.39	19.35	19.29
		25	25	19.34	19.37	19.21
		50	0	19.63	19.75	19.43
10M	16QAM	1	0	19.16	19.55	19.29
		1	24	19.02	19.65	19.15
		1	49	19.31	18.96	18.69
		25	0	18.26	18.34	18.48
		25	12	18.10	18.66	18.28
		25	25	17.93	18.16	18.10
		50	0	18.20	18.50	18.64
10M	64QAM	1	0	17.94	18.20	17.95
		1	24	17.65	17.93	18.03
		1	49	17.29	17.62	17.41
		25	0	17.16	17.32	16.86
		25	12	17.19	17.07	16.85
		25	25	16.43	16.79	16.45
		50	0	16.79	16.82	16.65
10M	256QAM	1	0	14.56	15.24	14.80
		1	24	14.53	14.84	14.76
		1	49	14.89	14.81	14.67
		25	0	13.88	14.35	14.03
		25	12	13.95	14.28	13.97
		25	25	13.77	13.88	13.67
		50	0	13.79	14.21	13.55

*ERP = Conducted + antenna gain (-1.891dBi)-2.15

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	19.96	20.33	20.18
		1	12	19.86	20.28	20.04
		1	24	19.82	20.29	19.77
		12	0	18.83	19.33	19.04
		12	6	19.25	19.26	19.05
		12	13	18.82	19.17	18.87
		25	0	18.93	19.50	19.26
5M	16QAM	1	0	19.33	19.33	19.53
		1	12	19.18	19.10	19.56
		1	24	18.73	19.22	18.83
		12	0	18.46	18.41	18.32
		12	6	18.41	18.58	18.10
		12	13	18.11	18.36	18.21
		25	0	18.44	18.52	17.99
5M	64QAM	1	0	18.08	17.88	18.06
		1	12	18.06	17.86	17.82
		1	24	17.16	17.71	16.99
		12	0	16.94	17.15	17.00
		12	6	16.72	17.20	16.47
		12	13	16.28	16.45	16.07
		25	0	16.64	16.82	16.28
5M	256QAM	1	0	14.55	15.07	14.46
		1	12	14.84	14.66	14.60
		1	24	14.55	14.87	14.44
		12	0	13.93	14.05	13.90
		12	6	14.00	13.79	13.82
		12	13	13.50	13.91	13.56
		25	0	13.76	13.85	13.58

*ERP = Conducted + antenna gain (-1.891dBi)-2.15

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	20.32	20.29	20.00
		1	7	20.21	20.28	20.27
		1	14	20.13	20.23	19.60
		8	0	18.79	19.09	19.32
		8	3	19.04	19.67	19.37
		8	7	19.18	19.53	18.93
		15	0	19.09	19.28	19.20
3M	16QAM	1	0	19.26	19.69	19.25
		1	7	18.90	19.44	19.58
		1	14	18.93	19.12	19.01
		8	0	18.50	18.67	18.54
		8	3	17.96	18.16	17.93
		8	7	18.33	18.25	18.23
		15	0	18.12	18.36	18.37
3M	64QAM	1	0	18.02	18.22	17.94
		1	7	18.03	17.82	17.84
		1	14	17.15	17.30	17.14
		8	0	17.16	17.38	16.66
		8	3	16.87	16.73	16.51
		8	7	16.10	16.67	16.22
		15	0	16.43	16.65	16.15
3M	256QAM	1	0	15.11	14.75	14.52
		1	7	14.47	14.62	14.41
		1	14	14.52	15.01	14.16
		8	0	13.98	14.04	14.06
		8	3	13.72	14.00	13.82
		8	7	13.39	14.04	13.48
		15	0	13.94	13.91	13.64

*ERP = Conducted + antenna gain (-1.891dBi)-2.15

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	20.32	20.33	20.09
		1	2	20.25	20.19	20.13
		1	5	19.67	20.05	19.60
		3	0	20.11	20.16	20.26
		3	1	20.21	20.23	20.22
		3	3	20.28	20.26	19.71
		6	0	19.17	19.51	19.00
1.4M	16QAM	1	0	19.26	19.68	18.99
		1	2	19.50	19.24	19.21
		1	5	19.25	19.23	18.94
		3	0	19.52	19.28	19.40
		3	1	19.09	19.64	19.01
		3	3	18.98	19.14	19.13
		6	0	18.01	18.54	18.25
1.4M	64QAM	1	0	17.75	18.24	17.91
		1	2	17.68	18.10	17.67
		1	5	17.29	17.71	17.10
		3	0	17.87	18.03	18.07
		3	1	18.13	17.76	17.95
		3	3	16.97	17.72	17.18
		6	0	16.55	16.42	16.46
1.4M	256QAM	1	0	15.06	14.91	14.83
		1	2	15.06	15.19	14.38
		1	5	14.41	14.74	14.32
		3	0	14.56	15.09	14.54
		3	1	14.92	15.04	14.68
		3	3	14.89	14.88	14.60
		6	0	13.95	14.29	13.73

*ERP = Conducted + antenna gain (-1.891dBi)-2.15

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	23.49	23.50	23.52
		1	50	23.49	23.40	23.46
		1	99	23.09	23.10	23.42
		50	0	22.73	22.48	22.55
		50	25	22.71	22.12	22.76
		50	50	22.13	22.09	22.77
		100	0	22.55	22.58	22.59
20M	16QAM	1	0	22.50	22.22	23.01
		1	50	22.36	22.02	22.54
		1	99	22.20	22.02	22.52
		50	0	21.38	21.16	21.89
		50	25	21.20	21.20	21.50
		50	50	21.16	21.42	21.46
		100	0	21.38	21.62	21.82
20M	64QAM	1	0	21.78	21.27	21.39
		1	50	21.45	21.69	21.67
		1	99	20.98	21.15	21.62
		50	0	20.47	20.31	20.44
		50	25	20.64	20.41	20.59
		50	50	20.26	20.24	20.57
		100	0	20.59	20.35	20.40
20M	256QAM	1	0	18.08	18.04	18.21
		1	50	17.78	17.85	18.13
		1	99	17.80	17.74	18.15
		50	0	17.24	16.92	17.63
		50	25	16.99	16.96	17.27
		50	50	16.92	16.75	16.81
		100	0	17.33	17.23	16.98

*EIRP = Conducted + antenna gain (0.185dBi)

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	23.48	23.36	23.50
		1	37	22.94	22.98	23.50
		1	74	23.12	23.03	23.29
		36	0	22.55	22.36	22.89
		36	19	22.52	22.66	22.67
		36	39	22.31	22.53	22.49
		75	0	22.64	22.69	22.56
15M	16QAM	1	0	22.70	22.10	22.69
		1	37	22.39	22.06	22.16
		1	74	22.10	22.07	22.15
		36	0	21.27	21.36	21.48
		36	19	21.52	21.57	21.40
		36	39	21.37	21.06	21.54
		75	0	21.58	21.17	21.78
15M	64QAM	1	0	21.19	21.50	21.56
		1	37	21.17	21.43	21.82
		1	74	21.35	20.85	21.55
		36	0	20.64	20.15	20.71
		36	19	20.15	20.58	20.32
		36	39	20.13	20.17	20.22
		75	0	20.19	20.09	20.34
15M	256QAM	1	0	17.90	17.78	18.55
		1	37	17.92	17.83	18.00
		1	74	17.58	17.91	17.79
		36	0	16.75	16.88	17.09
		36	19	17.12	17.26	17.27
		36	39	17.11	17.12	17.27
		75	0	16.77	16.95	17.07

*EIRP = Conducted + antenna gain (0.185dBi)

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	23.34	23.27	23.48
		1	24	23.40	22.86	23.14
		1	49	23.34	22.98	23.42
		25	0	22.60	22.07	22.43
		25	12	22.23	22.05	22.41
		25	25	22.05	22.42	22.30
		50	0	22.21	22.11	22.31
10M	16QAM	1	0	22.63	22.49	22.76
		1	24	21.81	22.05	22.54
		1	49	22.10	22.19	22.19
		25	0	21.28	21.54	21.74
		25	12	21.46	21.28	21.65
		25	25	21.29	21.19	21.08
		50	0	21.30	21.23	21.63
10M	64QAM	1	0	20.97	21.21	21.86
		1	24	21.14	21.56	21.68
		1	49	20.91	20.85	20.91
		25	0	20.24	20.01	20.82
		25	12	20.27	20.05	20.57
		25	25	19.88	19.98	20.29
		50	0	20.27	20.16	20.42
10M	256QAM	1	0	17.74	17.74	17.83
		1	24	18.12	17.63	17.66
		1	49	17.73	17.77	17.81
		25	0	16.60	16.60	17.54
		25	12	17.05	17.08	17.34
		25	25	16.76	16.81	17.14
		50	0	17.03	16.90	17.09

*EIRP = Conducted + antenna gain (0.185dBi)

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	23.38	23.44	23.32
		1	12	23.19	23.21	23.28
		1	24	22.96	23.04	23.33
		12	0	22.53	22.04	22.77
		12	6	22.06	22.18	22.04
		12	13	22.07	22.41	22.34
		25	0	22.29	22.09	22.17
5M	16QAM	1	0	22.70	22.18	22.51
		1	12	22.36	22.16	21.95
		1	24	21.65	22.23	21.91
		12	0	21.39	21.38	21.42
		12	6	21.36	21.31	21.60
		12	13	21.51	21.46	21.62
		25	0	21.24	21.15	21.59
5M	64QAM	1	0	21.63	21.17	21.93
		1	12	21.34	21.34	21.47
		1	24	21.03	20.81	21.37
		12	0	20.66	20.32	20.74
		12	6	20.39	20.15	20.64
		12	13	20.40	20.44	20.17
		25	0	20.54	19.97	20.44
5M	256QAM	1	0	17.99	17.85	17.71
		1	12	17.89	17.41	17.86
		1	24	17.64	17.78	17.84
		12	0	16.94	17.21	17.06
		12	6	17.00	16.64	17.25
		12	13	17.09	17.21	16.81
		25	0	17.03	17.21	17.03

*EIRP = Conducted + antenna gain (0.185dBi)

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	20.17	20.15	20.16
		1	12	20.12	19.80	20.16
		1	24	20.10	19.87	19.68
		12	0	18.97	18.98	18.79
		12	6	19.44	18.93	19.11
		12	13	19.12	18.85	19.18
		25	0	19.37	18.94	18.67
10M	16QAM	1	0	19.42	19.07	18.62
		1	12	18.99	18.59	18.55
		1	24	18.83	18.77	18.61
		12	0	18.15	18.14	17.97
		12	6	18.08	17.93	17.92
		12	13	18.61	18.10	17.91
		25	0	18.53	18.07	18.07
10M	64QAM	1	0	18.05	17.92	17.77
		1	12	18.30	17.64	18.11
		1	24	17.56	17.85	17.54
		12	0	16.87	16.67	16.60
		12	6	16.91	16.54	16.73
		12	13	17.20	16.50	16.58
		25	0	17.24	16.76	16.97
10M	256QAM	1	0	15.05	14.92	14.68
		1	12	14.90	14.46	14.60
		1	24	14.88	14.70	14.70
		12	0	13.49	13.38	13.31
		12	6	14.07	13.74	13.44
		12	13	13.87	13.73	13.99
		25	0	13.90	13.92	13.77

*ERP = Conducted + antenna gain (-2.135dBi)-2.15

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	20.06	20.03	20.03
		1	12	19.97	19.74	20.02
		1	24	19.80	19.96	19.88
		12	0	18.92	19.19	18.64
		12	6	19.06	18.78	18.66
		12	13	19.24	19.03	18.83
		25	0	18.90	18.96	18.72
5M	16QAM	1	0	19.13	19.05	18.80
		1	12	18.85	18.82	19.06
		1	24	18.82	18.95	18.67
		12	0	18.54	18.31	18.03
		12	6	17.99	18.09	17.97
		12	13	18.39	17.94	17.94
		25	0	17.99	18.12	17.78
5M	64QAM	1	0	18.53	17.78	17.79
		1	12	18.41	18.00	17.93
		1	24	17.68	17.40	17.70
		12	0	17.15	16.52	16.84
		12	6	17.21	16.88	16.42
		12	13	16.68	16.44	16.77
		25	0	17.08	16.67	16.55
5M	256QAM	1	0	14.99	14.68	14.68
		1	12	14.74	14.57	14.33
		1	24	14.38	14.24	14.77
		12	0	13.91	13.49	13.35
		12	6	13.81	13.63	13.39
		12	13	13.61	13.54	13.46
		25	0	14.01	13.58	13.43

*ERP = Conducted + antenna gain (-2.135dBi)-2.15

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	20.02	20.03	19.98
		1	7	19.98	20.09	19.98
		1	14	19.79	19.56	20.00
		8	0	18.97	18.55	18.96
		8	3	19.08	18.90	19.06
		8	7	18.97	18.60	18.73
		15	0	19.12	18.76	18.64
3M	16QAM	1	0	19.24	18.69	18.53
		1	7	19.05	18.87	19.02
		1	14	18.85	18.97	18.81
		8	0	18.02	17.84	17.68
		8	3	17.94	18.05	17.45
		8	7	18.33	18.00	17.92
		15	0	18.11	17.77	17.99
3M	64QAM	1	0	18.13	17.57	17.97
		1	7	18.46	18.03	17.41
		1	14	17.84	17.38	17.14
		8	0	16.66	16.69	16.54
		8	3	16.88	16.37	16.32
		8	7	17.03	16.72	16.59
		15	0	17.15	16.47	16.48
3M	256QAM	1	0	15.23	14.37	14.69
		1	7	15.08	14.68	14.44
		1	14	14.60	14.83	14.05
		8	0	13.71	13.29	13.61
		8	3	13.85	13.48	13.63
		8	7	13.83	13.26	13.21
		15	0	13.85	13.21	13.50

*ERP = Conducted + antenna gain (-2.135dBi)-2.15

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	20.01	19.97	19.86
		1	2	19.98	19.96	19.66
		1	5	19.99	19.98	19.74
		3	0	20.00	20.03	19.78
		3	1	20.09	19.59	19.58
		3	3	20.13	20.06	19.55
		6	0	18.78	18.71	18.91
1.4M	16QAM	1	0	19.32	18.96	18.81
		1	2	18.62	18.83	18.48
		1	5	18.84	18.95	18.94
		3	0	19.41	19.16	19.11
		3	1	19.20	19.04	18.63
		3	3	18.96	19.19	19.01
		6	0	17.85	17.62	17.64
1.4M	64QAM	1	0	18.30	17.85	18.14
		1	2	18.26	17.52	17.52
		1	5	17.48	17.49	17.41
		3	0	17.99	17.46	17.61
		3	1	17.83	17.44	17.64
		3	3	17.89	17.63	17.62
		6	0	17.13	16.77	16.39
1.4M	256QAM	1	0	14.98	14.74	14.41
		1	2	14.79	14.51	14.61
		1	5	14.76	14.56	14.08
		3	0	15.14	14.48	14.22
		3	1	15.24	14.57	14.63
		3	3	14.61	14.56	14.07
		6	0	13.79	13.75	13.44

*ERP = Conducted + antenna gain (-2.135dBi)-2.15

LTE Band 13				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	17.77
		1	24	17.75
		1	49	17.70
		25	0	17.03
		25	12	16.92
		25	25	16.92
		50	0	16.84
10M	16QAM	1	0	16.93
		1	24	16.77
		1	49	16.77
		25	0	16.33
		25	12	15.80
		25	25	16.05
		50	0	16.05
10M	64QAM	1	0	15.98
		1	24	16.04
		1	49	16.05
		25	0	15.20
		25	12	14.79
		25	25	14.71
		50	0	15.18
10M	256QAM	1	0	12.93
		1	24	12.31
		1	49	12.44
		25	0	11.17
		25	12	11.17
		25	25	11.43
		50	0	11.78

*ERP = Conducted + antenna gain (-4.37dBi)-2.15

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	17.74	17.76	17.59
		1	12	17.59	17.71	17.69
		1	24	17.73	17.69	17.75
		12	0	16.57	17.09	16.66
		12	6	16.61	16.64	16.55
		12	13	17.00	16.98	17.07
		25	0	16.83	16.85	16.76
5M	16QAM	1	0	16.70	17.10	17.19
		1	12	17.03	16.88	16.54
		1	24	16.94	16.98	16.74
		12	0	15.90	15.93	15.69
		12	6	15.98	15.65	15.70
		12	13	16.13	15.76	15.99
		25	0	15.92	15.84	16.06
5M	64QAM	1	0	15.81	16.08	16.03
		1	12	15.60	15.92	15.93
		1	24	15.51	15.57	15.19
		12	0	14.74	15.27	14.56
		12	6	14.88	14.35	14.68
		12	13	14.86	15.05	14.80
		25	0	14.45	14.53	14.48
5M	256QAM	1	0	12.52	12.45	12.49
		1	12	12.79	12.88	12.33
		1	24	12.31	12.77	12.71
		12	0	11.31	11.62	11.29
		12	6	11.51	11.59	11.02
		12	13	11.50	11.25	11.54
		25	0	11.60	11.93	11.08

*ERP = Conducted + antenna gain (-4.37dBi)-2.15

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	23.97	23.98	23.88
		1	50	23.72	23.97	23.96
		1	99	23.66	23.79	23.93
		50	0	22.94	23.45	23.02
		50	25	22.66	23.38	23.35
		50	50	23.00	22.86	22.83
		100	0	22.68	23.45	23.29
20M	16QAM	1	0	22.82	23.30	22.82
		1	50	23.08	23.05	23.08
		1	99	22.63	23.01	23.18
		50	0	22.17	22.25	22.07
		50	25	21.74	22.28	22.27
		50	50	22.02	22.07	22.18
		100	0	21.78	22.24	22.03
20M	64QAM	1	0	21.64	21.73	21.79
		1	50	21.85	21.61	21.78
		1	99	21.74	21.80	21.96
		50	0	20.78	20.96	21.44
		50	25	20.90	21.39	20.91
		50	50	20.66	21.39	21.29
		100	0	20.75	21.10	21.31
20M	256QAM	1	0	18.71	19.12	18.91
		1	50	18.66	18.69	18.80
		1	99	18.37	18.78	18.55
		50	0	17.79	17.47	17.57
		50	25	17.26	18.01	17.40
		50	50	17.38	18.13	17.52
		100	0	17.59	17.89	17.92

*EIRP = Conducted + antenna gain (0.724dBi)

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	23.90	23.88	23.88
		1	37	23.64	23.65	23.83
		1	74	23.89	23.64	23.90
		36	0	22.94	23.32	23.32
		36	19	22.73	23.17	22.95
		36	39	22.80	22.85	22.86
		75	0	23.10	23.17	23.33
15M	16QAM	1	0	23.03	23.09	22.74
		1	37	22.93	23.22	22.79
		1	74	22.99	23.02	23.04
		36	0	21.99	22.34	21.94
		36	19	21.99	21.83	22.05
		36	39	22.05	22.38	21.85
		75	0	21.99	21.99	22.03
15M	64QAM	1	0	21.61	22.02	22.01
		1	37	21.38	21.86	21.64
		1	74	21.60	21.58	21.55
		36	0	21.23	20.87	21.16
		36	19	20.75	20.91	21.02
		36	39	21.14	21.10	20.90
		75	0	20.77	21.25	21.04
15M	256QAM	1	0	18.71	18.82	18.67
		1	37	18.29	18.67	18.47
		1	74	18.47	18.93	18.56
		36	0	17.19	17.93	17.86
		36	19	17.65	17.99	18.06
		36	39	17.69	17.85	17.60
		75	0	17.29	17.91	17.92

*EIRP = Conducted + antenna gain (0.724dBi)

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	23.75	23.91	23.88
		1	24	23.71	23.96	23.93
		1	49	23.42	23.94	23.95
		25	0	22.86	23.02	23.34
		25	12	23.04	23.21	22.74
		25	25	22.91	22.76	23.19
		50	0	22.81	23.31	22.99
10M	16QAM	1	0	22.61	23.21	23.29
		1	24	22.65	22.71	23.10
		1	49	22.66	22.65	23.23
		25	0	21.91	21.99	21.76
		25	12	21.96	22.26	21.83
		25	25	21.86	22.12	22.03
		50	0	21.70	22.02	22.16
10M	64QAM	1	0	21.76	21.91	22.08
		1	24	21.31	21.72	21.89
		1	49	21.48	21.89	21.42
		25	0	20.87	21.07	21.16
		25	12	20.82	21.12	21.02
		25	25	20.72	21.18	21.37
		50	0	20.50	20.79	20.61
10M	256QAM	1	0	18.92	18.74	18.55
		1	24	17.98	18.86	18.78
		1	49	17.96	18.38	18.45
		25	0	17.41	17.70	17.84
		25	12	17.44	17.86	17.29
		25	25	17.71	17.89	17.93
		50	0	17.71	17.52	17.65

*EIRP = Conducted + antenna gain (0.724dBi)

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	23.87	23.70	23.86
		1	12	23.75	23.80	23.52
		1	24	23.83	23.91	23.94
		12	0	22.89	23.22	22.75
		12	6	22.78	22.96	23.11
		12	13	22.62	23.27	23.10
		25	0	22.99	23.14	22.82
5M	16QAM	1	0	23.01	22.96	23.10
		1	12	22.65	23.17	22.77
		1	24	22.83	23.14	22.97
		12	0	22.06	21.81	22.03
		12	6	21.47	22.24	21.90
		12	13	21.95	22.01	21.86
		25	0	21.69	22.31	21.80
5M	64QAM	1	0	21.86	21.42	21.47
		1	12	21.48	21.85	22.02
		1	24	21.45	21.76	21.55
		12	0	20.86	20.80	21.00
		12	6	20.92	21.29	21.16
		12	13	20.58	21.20	21.22
		25	0	20.66	21.23	20.75
5M	256QAM	1	0	18.83	18.40	18.38
		1	12	18.31	18.56	18.79
		1	24	18.14	18.52	18.67
		12	0	17.52	18.00	17.80
		12	6	17.82	17.82	17.59
		12	13	17.39	17.74	17.41
		25	0	17.63	17.42	17.52

*EIRP = Conducted + antenna gain (0.724dBi)

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	21.64	21.78	21.77
		1	50	21.31	21.75	21.77
		1	99	20.73	21.52	21.43
		50	0	20.35	20.64	21.11
		50	25	20.46	20.93	21.14
		50	50	20.59	20.73	20.84
		100	0	20.33	20.96	20.63
20M	16QAM	1	0	20.78	20.80	20.87
		1	50	20.46	20.51	20.98
		1	99	20.39	20.80	20.64
		50	0	19.38	20.05	19.87
		50	25	19.68	19.53	19.93
		50	50	19.35	19.46	19.47
		100	0	19.74	19.61	20.01
20M	64QAM	1	0	19.62	19.93	19.72
		1	50	19.41	19.95	19.73
		1	99	18.93	19.81	19.89
		50	0	18.88	18.99	18.60
		50	25	18.68	18.74	18.84
		50	50	18.74	18.90	18.64
		100	0	18.50	19.10	18.76
20M	256QAM	1	0	15.60	16.28	16.42
		1	50	15.98	16.40	16.59
		1	99	15.60	15.93	16.36
		50	0	14.89	15.36	15.57
		50	25	15.03	15.66	15.44
		50	50	15.16	15.51	15.64
		100	0	15.24	15.14	15.55

*EIRP = Conducted + antenna gain (-1.685dBi)

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	21.33	21.65	21.77
		1	37	21.08	21.59	21.70
		1	74	20.76	21.54	21.72
		36	0	20.80	20.76	21.12
		36	19	20.67	20.68	20.87
		36	39	20.60	20.54	20.86
		75	0	20.28	20.47	21.03
15M	16QAM	1	0	20.91	21.01	20.58
		1	37	20.53	20.47	21.01
		1	74	20.71	20.33	20.39
		36	0	19.31	19.68	19.84
		36	19	19.48	19.81	19.61
		36	39	19.70	19.45	19.52
		75	0	19.47	19.45	19.72
15M	64QAM	1	0	19.63	20.14	20.02
		1	37	19.26	19.94	19.56
		1	74	19.33	19.87	19.97
		36	0	18.87	18.78	18.67
		36	19	18.24	19.09	18.48
		36	39	18.29	19.14	18.85
		75	0	18.51	19.13	18.77
15M	256QAM	1	0	15.89	16.63	16.50
		1	37	15.63	16.25	16.31
		1	74	15.95	16.02	15.87
		36	0	15.20	15.08	15.69
		36	19	15.12	14.89	15.42
		36	39	15.37	15.21	15.16
		75	0	15.21	15.19	15.40

*EIRP = Conducted + antenna gain (-1.685dBi)

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	21.24	21.59	21.73
		1	24	20.92	21.55	21.54
		1	49	20.75	21.42	21.39
		25	0	20.21	20.39	20.81
		25	12	20.33	20.35	20.87
		25	25	20.15	20.47	20.64
		50	0	20.67	20.84	20.73
10M	16QAM	1	0	20.37	20.91	20.53
		1	24	20.32	20.41	20.46
		1	49	20.72	20.66	20.33
		25	0	19.25	19.94	19.33
		25	12	19.50	19.81	19.54
		25	25	19.54	19.41	19.76
		50	0	19.25	19.87	19.41
10M	64QAM	1	0	19.32	19.92	19.78
		1	24	19.23	19.57	20.10
		1	49	19.25	19.37	19.58
		25	0	18.66	18.83	18.42
		25	12	18.57	18.61	18.46
		25	25	18.18	19.15	18.75
		50	0	18.42	18.46	18.50
10M	256QAM	1	0	15.85	16.41	16.45
		1	24	16.11	16.12	16.09
		1	49	15.65	16.28	15.63
		25	0	15.22	15.06	15.33
		25	12	15.59	14.88	15.29
		25	25	14.74	15.01	15.32
		50	0	15.12	14.97	15.57

*EIRP = Conducted + antenna gain (-1.685dBi)

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	21.52	21.67	21.69
		1	12	21.54	21.66	21.51
		1	24	20.58	21.40	21.22
		12	0	20.64	20.79	20.89
		12	6	20.18	20.51	20.92
		12	13	20.60	20.43	20.49
		25	0	20.19	20.33	20.52
5M	16QAM	1	0	20.57	20.88	20.56
		1	12	20.63	20.37	20.61
		1	24	20.39	20.79	20.51
		12	0	19.69	19.68	19.49
		12	6	19.24	19.45	19.75
		12	13	19.58	19.78	19.66
		25	0	19.21	19.65	19.67
5M	64QAM	1	0	19.45	19.56	19.91
		1	12	19.04	19.84	19.91
		1	24	19.10	19.76	19.51
		12	0	18.31	18.69	18.54
		12	6	18.47	18.73	18.82
		12	13	18.38	18.90	18.79
		25	0	18.39	19.01	18.96
5M	256QAM	1	0	15.86	16.14	16.40
		1	12	16.22	16.47	16.48
		1	24	15.59	15.42	15.85
		12	0	14.84	15.04	15.32
		12	6	15.19	15.05	15.31
		12	13	15.11	15.38	15.05
		25	0	15.10	15.03	15.22

*EIRP = Conducted + antenna gain (-1.685dBi)

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	21.32	21.67	21.62
		1	7	21.25	21.40	21.57
		1	14	20.49	20.95	21.36
		8	0	20.25	20.45	20.89
		8	3	20.63	20.29	20.94
		8	7	20.57	20.40	20.76
		15	0	20.31	20.71	20.65
3M	16QAM	1	0	20.93	20.43	20.86
		1	7	20.34	20.23	20.92
		1	14	20.47	20.85	20.88
		8	0	19.47	19.81	19.49
		8	3	19.64	19.75	19.97
		8	7	19.52	19.42	19.48
		15	0	19.35	19.84	19.50
3M	64QAM	1	0	19.27	20.05	19.70
		1	7	19.28	19.99	19.96
		1	14	19.14	19.77	19.91
		8	0	18.42	18.85	18.88
		8	3	18.65	18.74	18.48
		8	7	18.64	19.00	18.72
		15	0	18.51	18.62	18.60
3M	256QAM	1	0	16.15	16.25	16.54
		1	7	16.08	16.26	16.32
		1	14	15.28	15.88	15.61
		8	0	15.17	15.21	15.39
		8	3	15.04	15.33	14.94
		8	7	15.00	15.35	15.25
		15	0	15.25	15.48	15.26

*EIRP = Conducted + antenna gain (-1.685dBi)

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	21.32	21.67	21.70
		1	2	21.26	21.32	21.68
		1	5	20.66	21.15	21.24
		3	0	21.14	21.59	21.57
		3	1	21.24	21.61	21.54
		3	3	21.33	21.57	21.52
		6	0	20.36	20.50	20.65
1.4M	16QAM	1	0	20.35	20.85	20.61
		1	2	20.51	20.33	20.51
		1	5	20.71	20.26	20.39
		3	0	20.18	20.50	20.45
		3	1	20.61	20.67	20.43
		3	3	20.37	20.76	20.85
		6	0	19.12	19.30	19.74
1.4M	64QAM	1	0	19.15	19.54	19.86
		1	2	19.08	19.90	19.90
		1	5	18.83	19.35	19.60
		3	0	19.48	19.62	19.67
		3	1	19.56	19.76	19.62
		3	3	19.37	19.78	19.82
		6	0	18.74	18.62	18.67
1.4M	256QAM	1	0	15.90	16.13	16.06
		1	2	15.63	16.26	16.02
		1	5	15.57	15.91	15.84
		3	0	16.18	16.12	16.20
		3	1	16.20	16.13	16.07
		3	3	16.18	16.02	16.02
		6	0	15.28	15.64	15.09

*EIRP = Conducted + antenna gain (-1.685dBi)

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	16.45	16.51	16.47
		1	50	16.43	16.32	16.45
		1	99	16.45	16.41	16.44
		50	0	15.67	15.34	15.75
		50	25	15.59	15.74	15.70
		50	50	15.76	15.33	15.60
		100	0	15.60	15.63	15.48
20M	16QAM	1	0	15.44	15.79	15.60
		1	50	15.79	15.66	15.69
		1	99	15.27	15.70	15.54
		50	0	14.33	14.66	14.84
		50	25	14.55	14.81	14.40
		50	50	14.29	14.57	14.23
		100	0	14.79	14.81	14.64
20M	64QAM	1	0	14.62	14.67	14.74
		1	50	14.83	14.47	14.82
		1	99	14.89	14.69	14.76
		50	0	13.70	13.72	13.47
		50	25	13.79	13.39	13.52
		50	50	13.72	13.81	13.61
		100	0	13.71	13.44	13.50
20M	256QAM	1	0	11.60	10.84	11.32
		1	50	10.95	10.91	11.01
		1	99	11.33	11.24	11.22
		50	0	10.38	10.65	9.90
		50	25	10.50	9.87	9.96
		50	50	10.06	10.05	10.00
		100	0	10.39	10.18	10.31

*ERP = Conducted + antenna gain (-5.741dBi)-2.15

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	16.50	16.48	16.45
		1	37	16.44	16.38	16.45
		1	74	16.43	16.41	16.45
		36	0	15.59	15.78	15.80
		36	19	15.80	15.74	15.60
		36	39	15.26	15.30	15.49
		75	0	15.52	15.38	15.87
15M	16QAM	1	0	15.35	15.65	15.76
		1	37	15.55	15.54	15.49
		1	74	15.31	15.35	15.54
		36	0	14.60	14.52	14.70
		36	19	14.77	14.71	14.31
		36	39	14.61	14.50	14.36
		75	0	14.75	14.23	14.28
15M	64QAM	1	0	14.68	14.59	14.55
		1	37	14.44	14.24	14.76
		1	74	14.72	14.26	14.55
		36	0	13.47	13.24	13.27
		36	19	13.80	13.73	13.80
		36	39	13.71	13.65	13.55
		75	0	13.79	13.75	13.53
15M	256QAM	1	0	11.63	11.34	11.47
		1	37	10.98	11.45	11.28
		1	74	11.11	11.34	10.92
		36	0	10.11	10.08	10.32
		36	19	10.19	10.19	10.11
		36	39	10.07	10.05	10.34
		75	0	10.12	9.96	10.01

*ERP = Conducted + antenna gain (-5.741dBi)-2.15

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	16.49	16.48	16.50
		1	24	16.47	16.46	16.44
		1	49	16.29	16.46	16.44
		25	0	15.30	15.32	15.41
		25	12	15.60	15.33	15.40
		25	25	15.38	15.65	15.27
		50	0	15.54	15.44	15.81
10M	16QAM	1	0	15.59	15.29	15.63
		1	24	15.41	15.41	15.71
		1	49	15.31	15.67	15.40
		25	0	14.29	14.70	14.76
		25	12	14.45	14.39	14.54
		25	25	14.20	14.28	14.45
		50	0	14.30	14.51	14.53
10M	64QAM	1	0	14.87	14.51	14.62
		1	24	14.44	14.32	14.63
		1	49	14.63	14.64	14.46
		25	0	13.83	13.40	13.39
		25	12	13.32	13.67	13.26
		25	25	13.45	13.67	13.13
		50	0	13.28	13.56	13.39
10M	256QAM	1	0	11.39	11.38	11.13
		1	24	11.61	11.27	10.83
		1	49	10.94	11.21	11.59
		25	0	9.97	10.24	10.42
		25	12	10.42	10.37	10.22
		25	25	9.98	10.05	10.21
		50	0	10.67	10.13	10.18

*ERP = Conducted + antenna gain (-5.741dBi)-2.15

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	16.50	16.50	16.44
		1	12	16.44	16.36	16.44
		1	24	16.45	16.45	16.49
		12	0	15.67	15.48	15.33
		12	6	15.52	15.64	15.55
		12	13	15.67	15.41	15.55
		25	0	15.86	15.31	15.37
5M	16QAM	1	0	15.91	15.66	15.90
		1	12	15.39	15.48	15.44
		1	24	15.44	15.48	15.75
		12	0	14.39	14.41	14.82
		12	6	14.44	14.38	14.34
		12	13	14.39	14.22	14.28
		25	0	14.76	14.60	14.79
5M	64QAM	1	0	14.90	14.85	14.86
		1	12	14.30	14.50	14.73
		1	24	14.63	14.73	14.73
		12	0	13.78	13.26	13.70
		12	6	13.79	13.26	13.37
		12	13	13.65	13.64	13.32
		25	0	13.33	13.43	13.45
5M	256QAM	1	0	10.93	11.16	11.23
		1	12	11.24	11.59	11.35
		1	24	10.87	11.15	11.13
		12	0	10.07	10.06	10.12
		12	6	9.98	10.34	10.23
		12	13	9.96	9.91	10.18
		25	0	10.69	10.55	9.97

*ERP = Conducted + antenna gain (-5.741dBi)-2.15

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

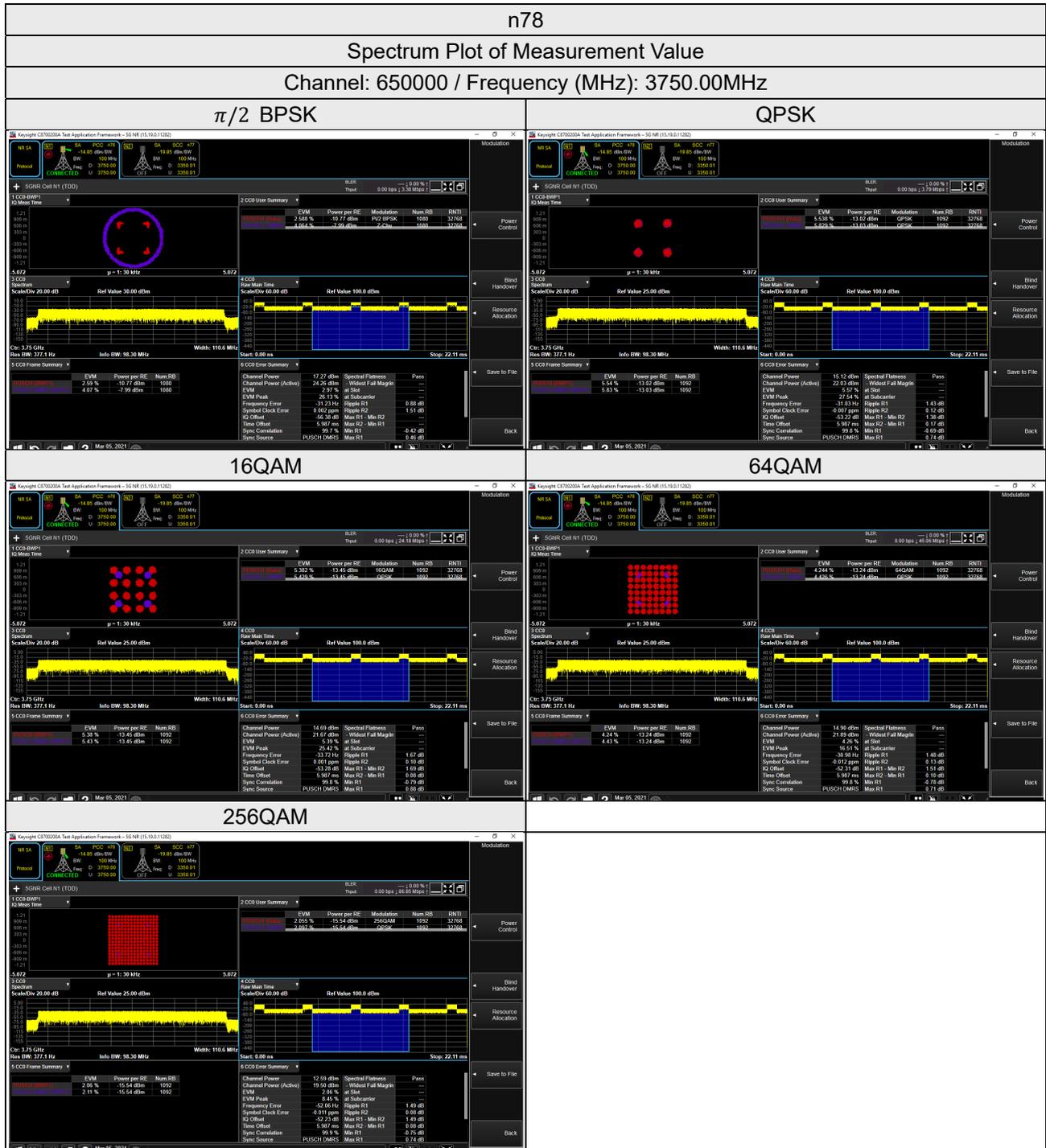
4.2.2 Test Procedure

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



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

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

4.3.2 Test Procedure

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

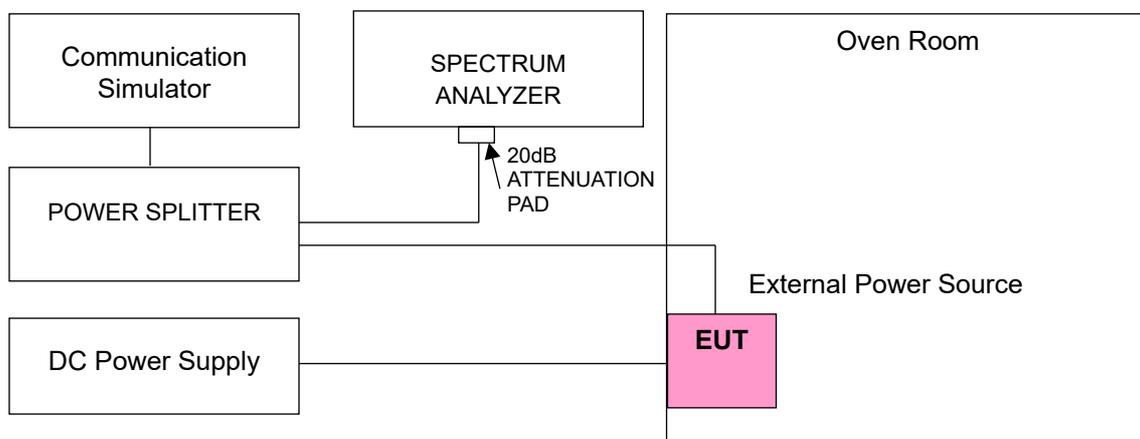
Note: The frequency error was recorded frequency error from the communication simulator.

4.3.3 Test Instruments

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

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

4.3.4 Test Setup



4.3.5 Test Results

Frequency Error vs. Voltage

Voltage (Vdc)	n78			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	3710.010003	0.001	3789.990000	0.001
7.74	3710.010001	0.000	3789.990000	0.001
6.58	3710.010003	0.001	3789.990000	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n78			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3710.010002	0.001	3789.990000	0.001
-20	3710.010004	0.001	3789.990000	0.001
-10	3710.010001	0.000	3789.990000	0.001
0	3710.010002	0.000	3789.990000	0.001
10	3710.009997	-0.001	3789.990000	-0.001
20	3710.009997	-0.001	3789.990000	0.000
30	3710.009999	0.000	3789.990000	-0.001
40	3710.009996	-0.001	3789.990000	-0.001
50	3710.009998	0.000	3789.990000	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n78			
	Channel Bandwidth 30 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	3715.020002	0.001	3784.980001	0.000
7.74	3715.020004	0.001	3784.980004	0.001
6.58	3715.020003	0.001	3784.980002	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n78			
	Channel Bandwidth 30 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3715.020004	0.001	3784.980002	0.001
-20	3715.020001	0.000	3784.980003	0.001
-10	3715.020002	0.001	3784.980001	0.000
0	3715.020004	0.001	3784.980004	0.001
10	3715.019997	-0.001	3784.979999	0.000
20	3715.019997	-0.001	3784.979999	0.000
30	3715.019997	-0.001	3784.979997	-0.001
40	3715.019996	-0.001	3784.979999	0.000
50	3715.019999	0.000	3784.979997	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n78			
	Channel Bandwidth 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	3720.000004	0.001	3780.000004	0.001
7.74	3720.000003	0.001	3780.000001	0.000
6.58	3720.000002	0.000	3780.000003	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n78			
	Channel Bandwidth 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3720.000003	0.001	3780.000001	0.000
-20	3720.000002	0.001	3780.000002	0.000
-10	3720.000002	0.000	3780.000003	0.001
0	3720.000003	0.001	3780.000003	0.001
10	3719.999999	0.000	3779.999997	-0.001
20	3719.999998	-0.001	3779.999999	0.000
30	3719.999997	-0.001	3779.999996	-0.001
40	3719.999999	0.000	3779.999999	0.000
50	3719.999998	-0.001	3779.999998	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n78			
	Channel Bandwidth 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	3725.010003	0.001	3774.990003	0.001
7.74	3725.010003	0.001	3774.990001	0.000
6.58	3725.010002	0.000	3774.990002	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n78			
	Channel Bandwidth 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3725.010002	0.001	3774.990003	0.001
-20	3725.010003	0.001	3774.990002	0.001
-10	3725.010002	0.001	3774.990002	0.000
0	3725.010003	0.001	3774.990002	0.001
10	3725.009997	-0.001	3774.989999	0.000
20	3725.009998	-0.001	3774.989998	0.000
30	3725.009996	-0.001	3774.989998	0.000
40	3725.009999	0.000	3774.989998	-0.001
50	3725.009996	-0.001	3774.989998	0.000

Frequency Error vs. Voltage

Voltage (Vdc)	n78			
	Channel Bandwidth 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	3730.020002	0.001	3769.980002	0.001
7.74	3730.020002	0.001	3769.980004	0.001
6.58	3730.020002	0.000	3769.980001	0.000

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n78			
	Channel Bandwidth 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3730.020004	0.001	3769.980004	0.001
-20	3730.020002	0.001	3769.980003	0.001
-10	3730.020003	0.001	3769.980002	0.001
0	3730.020004	0.001	3769.980003	0.001
10	3730.019997	-0.001	3769.979996	-0.001
20	3730.019996	-0.001	3769.979999	0.000
30	3730.019998	-0.001	3769.979997	-0.001
40	3730.019997	-0.001	3769.979997	-0.001
50	3730.019999	0.000	3769.979999	0.000

Frequency Error vs. Voltage

Voltage (Vdc)	n78			
	Channel Bandwidth 70 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	3735.000001	0.000	3765.000003	0.001
7.74	3735.000001	0.000	3765.000004	0.001
6.58	3735.000002	0.001	3765.000002	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n78			
	Channel Bandwidth 70 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3735.000004	0.001	3765.000003	0.001
-20	3735.000003	0.001	3765.000003	0.001
-10	3735.000003	0.001	3765.000002	0.001
0	3735.000003	0.001	3765.000001	0.000
10	3734.999999	0.000	3764.999996	-0.001
20	3734.999997	-0.001	3764.999999	0.000
30	3734.999998	-0.001	3764.999998	-0.001
40	3734.999997	-0.001	3764.999998	-0.001
50	3734.999998	0.000	3764.999997	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n78			
	Channel Bandwidth 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	3740.010004	0.001	3759.990003	0.001
7.74	3740.010003	0.001	3759.990003	0.001
6.58	3740.010001	0.000	3759.990004	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n78			
	Channel Bandwidth 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3740.010002	0.001	3759.990004	0.001
-20	3740.010002	0.001	3759.990003	0.001
-10	3740.010003	0.001	3759.990001	0.000
0	3740.010002	0.001	3759.990002	0.000
10	3740.009998	-0.001	3759.989999	0.000
20	3740.009996	-0.001	3759.989998	-0.001
30	3740.009997	-0.001	3759.989997	-0.001
40	3740.009997	-0.001	3759.989996	-0.001
50	3740.009996	-0.001	3759.989997	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n78			
	Channel Bandwidth 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	3745.020003	0.001	3754.980003	0.001
7.74	3745.020003	0.001	3754.980003	0.001
6.58	3745.020002	0.000	3754.980004	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n78			
	Channel Bandwidth 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3745.020001	0.000	3754.980003	0.001
-20	3745.020004	0.001	3754.980003	0.001
-10	3745.020003	0.001	3754.980003	0.001
0	3745.020003	0.001	3754.980003	0.001
10	3745.019999	0.000	3754.979996	-0.001
20	3745.019997	-0.001	3754.979999	0.000
30	3745.019998	-0.001	3754.979997	-0.001
40	3745.019999	0.000	3754.979999	0.000
50	3745.019997	-0.001	3754.979998	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n78	
	Channel Bandwidth 100 MHz	
	Frequency (MHz)	Frequency Error (ppm)
8.90	3750.000003	0.001
7.74	3750.000002	0.000
6.58	3750.000004	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

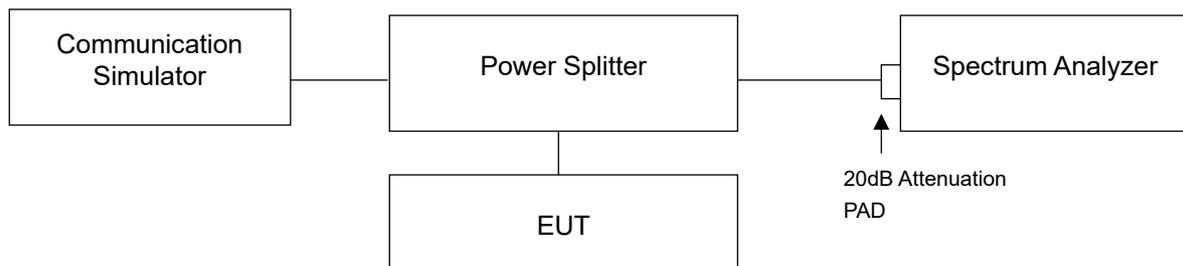
Temp. (°C)	n78	
	Channel Bandwidth 100 MHz	
	Frequency (MHz)	Frequency Error (ppm)
-30	3750.000002	0.001
-20	3750.000002	0.001
-10	3750.000002	0.001
0	3750.000002	0.000
10	3749.999997	-0.001
20	3749.999996	-0.001
30	3749.999997	-0.001
40	3749.999996	-0.001
50	3749.999998	-0.001

4.4 Occupied Bandwidth Measurement

4.4.1 Test Procedure

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

4.4.2 Test Setup



4.4.3 Test Result

Occupied Bandwidth

n78, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	18.04	18.24	18.20	18.24	18.24
650000	3750.00	18.08	18.24	18.20	18.24	18.20
652666	3789.99	18.09	18.20	18.20	18.24	18.20
n78, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647668	3715.02	27.62	27.88	27.87	27.87	27.87
650000	3750.00	27.62	27.86	27.86	27.86	27.87
652332	3784.98	27.54	27.86	27.86	27.87	27.86
n78, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	37.48	37.83	37.84	37.83	37.83
650000	3750.00	37.46	37.82	37.83	37.84	37.82
652000	3780.00	37.49	37.83	37.83	37.83	37.83
n78, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	47.08	47.47	47.48	47.47	47.47
650000	3750.00	47.02	47.47	47.48	47.47	47.45
651666	3774.99	47.05	47.48	47.47	47.47	47.47
n78, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	57.85	57.88	57.88	57.88	57.88
650000	3750.00	57.86	57.87	57.86	57.86	57.87
651332	3769.98	57.85	57.88	57.87	57.88	57.87

n78, Channel Bandwidth 70MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649000	3735.00	66.93	67.53	67.53	67.53	67.52
650000	3750.00	66.99	67.55	67.54	67.54	67.55
651000	3765.00	66.99	67.54	67.55	67.53	67.54

n78, Channel Bandwidth 80MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	77.16	77.51	77.51	77.50	77.51
650000	3750.00	77.15	77.50	77.50	77.50	77.50
650666	3759.99	77.14	77.49	77.50	77.49	77.51

n78, Channel Bandwidth 90MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649668	3745.02	86.90	87.54	87.53	87.54	87.52
650000	3750.00	86.84	87.54	87.53	87.54	87.55
650332	3754.98	86.84	87.54	87.54	87.52	87.54

n78, Channel Bandwidth 100MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	96.55	97.61	97.62	97.61	97.60

Spectrum Plot of Worst Value

20MHz / 64QAM



30MHz / QPSK



40MHz / 16QAM



50MHz / QPSK



60MHz / 64QAM



70MHz / 16QAM

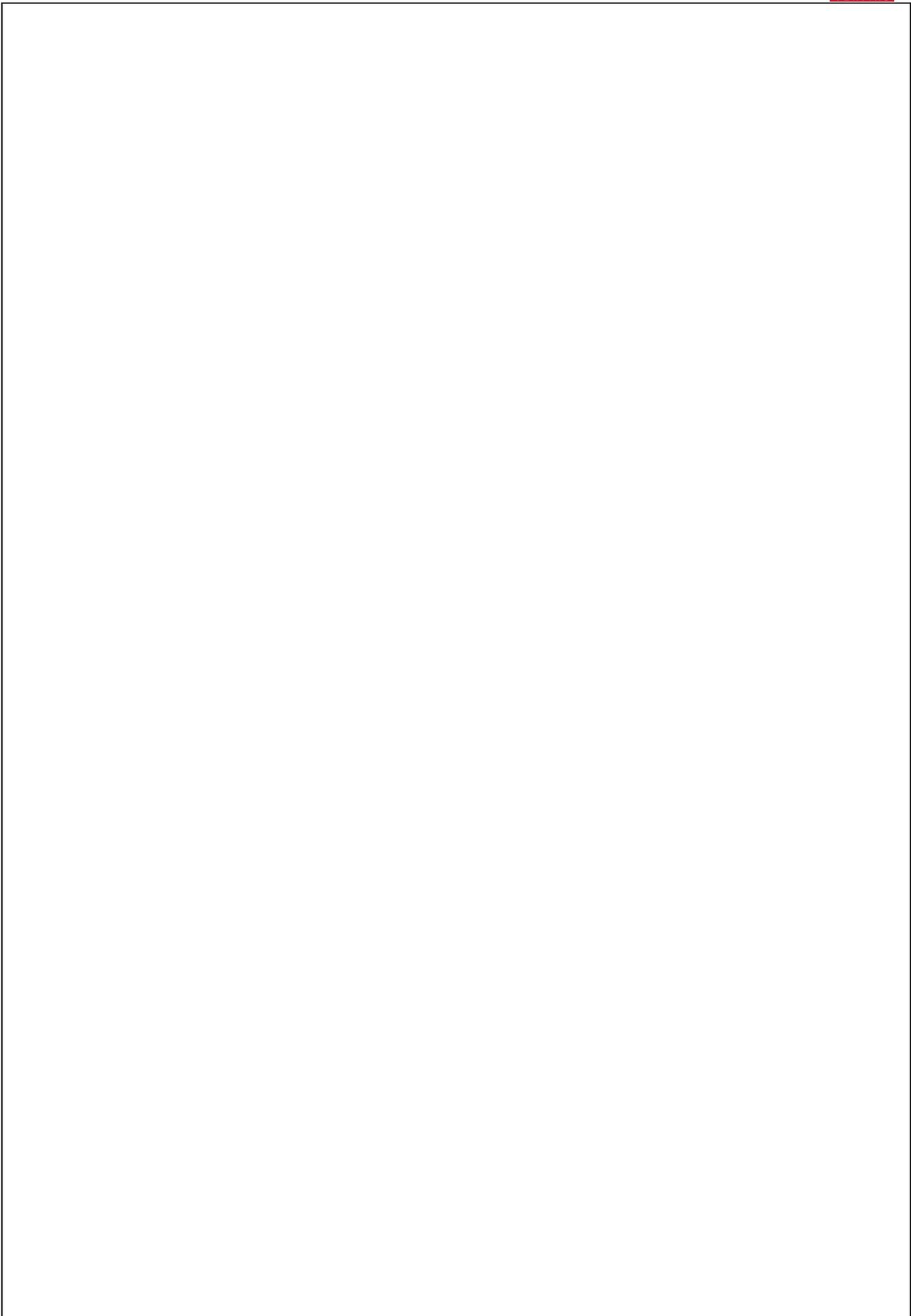


80MHz / 256QAM



90MHz / 256QAM





100MHz / 16QAM



26dB Bandwidth

n78, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	18.58	19.08	19.01	18.97	18.98
650000	3750.00	18.61	19.06	19.00	18.99	18.94
652666	3789.99	18.61	18.99	18.98	18.98	18.97
n78, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647668	3715.02	27.95	29.10	29.09	29.06	28.93
650000	3750.00	27.79	28.95	28.92	28.98	28.88
652332	3784.98	27.80	29.00	28.90	28.93	28.89
n78, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	37.03	39.21	39.23	39.23	39.20
650000	3750.00	37.02	39.21	39.22	39.21	39.21
652000	3780.00	37.05	39.20	39.21	39.20	39.19
n78, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	47.28	49.15	49.14	49.14	49.11
650000	3750.00	47.26	49.13	49.13	49.14	49.10
651666	3774.99	47.30	49.14	49.13	49.12	49.13
n78, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	59.75	59.80	59.80	59.78	59.78
650000	3750.00	59.75	59.80	59.77	59.77	59.76
651332	3769.98	59.75	59.79	59.78	59.80	59.78

n78, Channel Bandwidth 70MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649000	3735.00	66.56	69.90	69.91	69.90	69.82
650000	3750.00	66.54	69.86	69.83	69.81	69.79
651000	3765.00	66.56	69.83	69.88	69.85	69.79
n78, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	79.66	80.02	80.01	80.00	80.03
650000	3750.00	79.64	80.01	80.02	80.02	80.01
650666	3759.99	79.61	80.01	80.00	80.00	80.01
n78, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649668	3745.02	89.57	90.37	90.37	90.34	90.31
650000	3750.00	89.56	90.32	90.34	90.35	90.34
650332	3754.98	89.56	90.38	90.37	90.33	90.33
n78, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	99.47	100.60	100.60	100.60	100.60

Spectrum Plot of Worst Value

20MHz / QPSK



30MHz / QPSK



40MHz / 16QAM



50MHz / QPSK



60MHz / 64QAM



70MHz / 16QAM

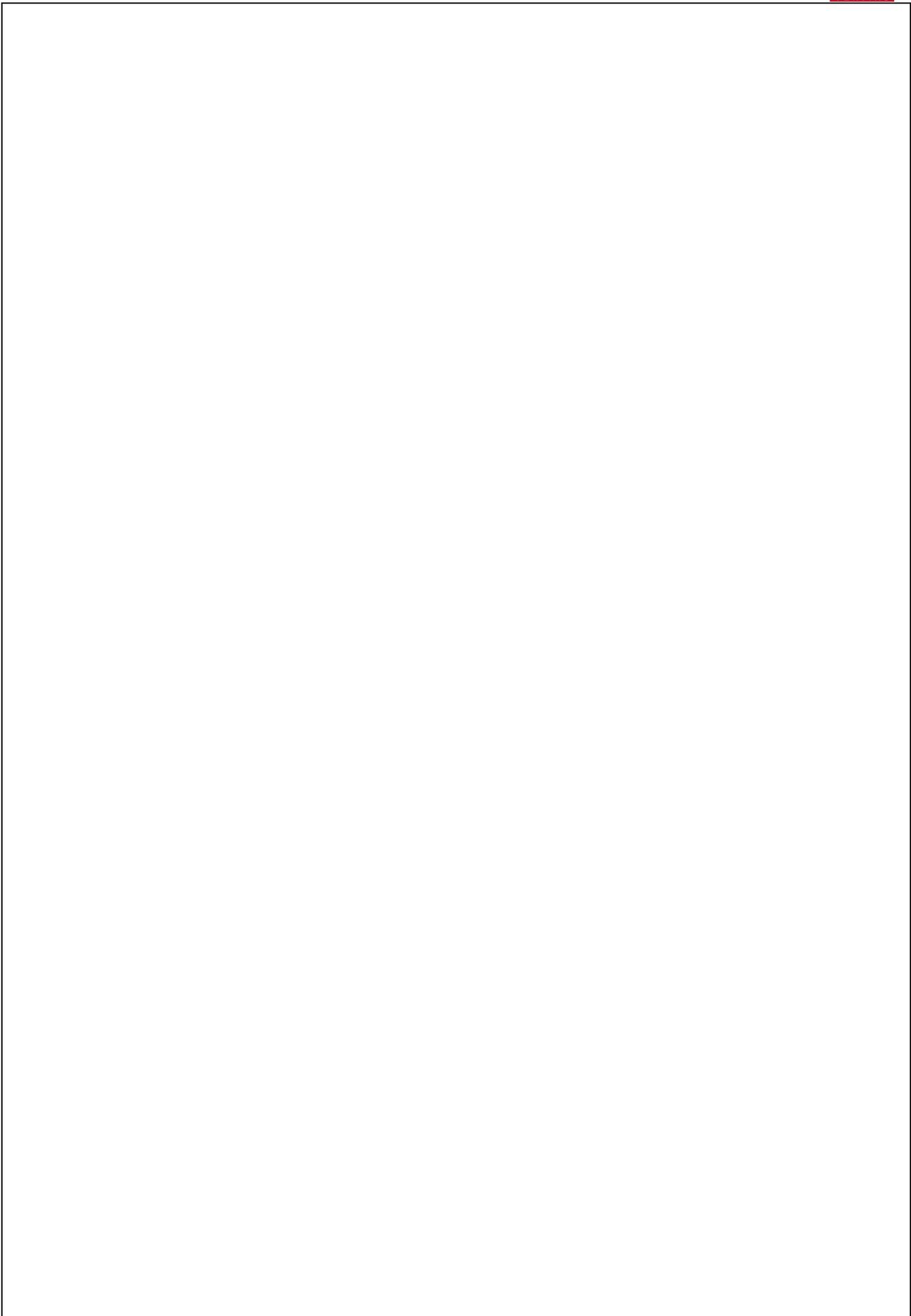


80MHz / 256QAM



90MHz / QPSK





100MHz / QPSK

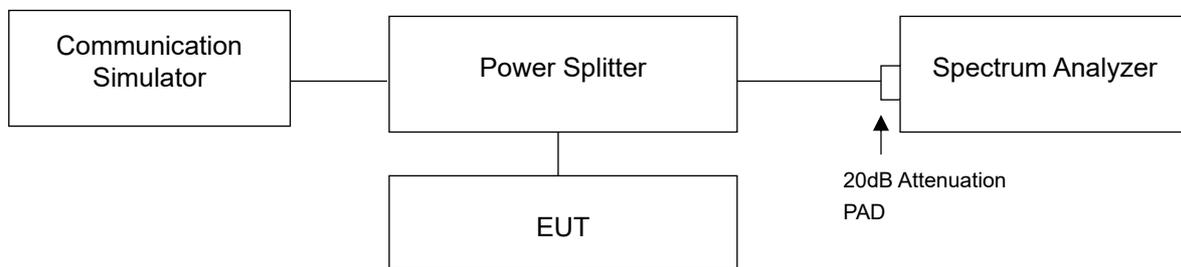


4.5 Band Edge Measurement

4.5.1 Limits of Band Edge Measurement

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

4.5.2 Test Setup



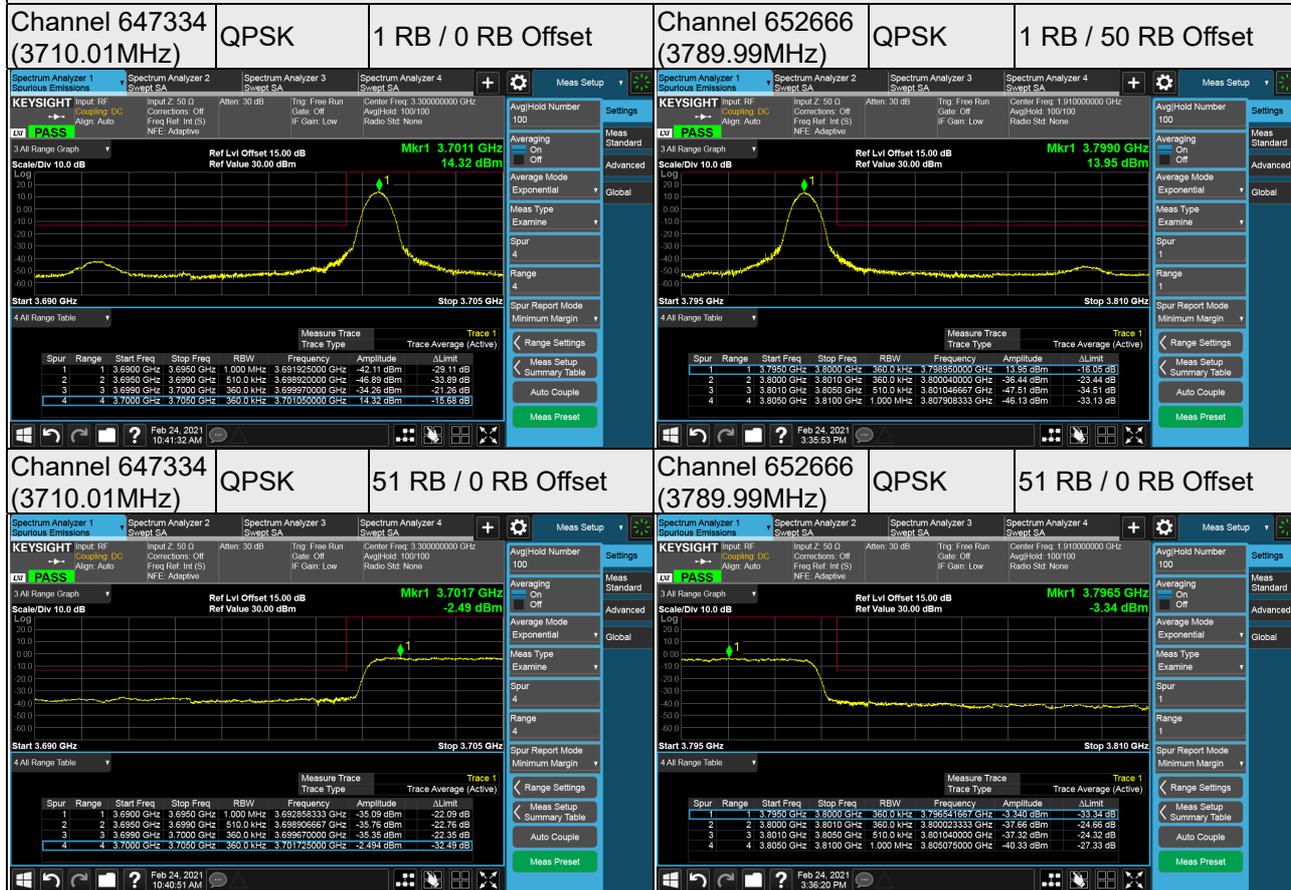
4.5.3 Test Procedures

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

4.5.4 Test Results

Out-of-Band Emission

n78, Channel Bandwidth 20MHz



n78, Channel Bandwidth 30MHz

Channel 647668
(3715.02MHz)

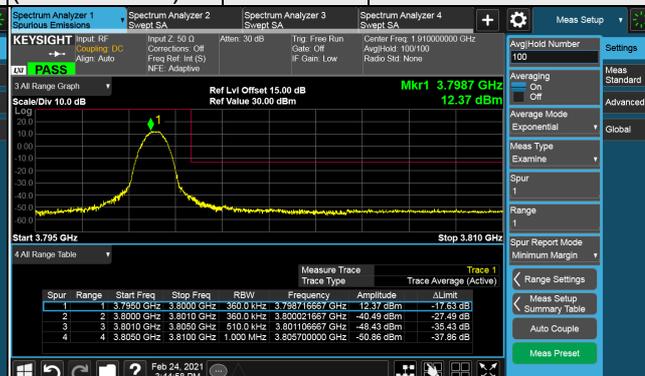
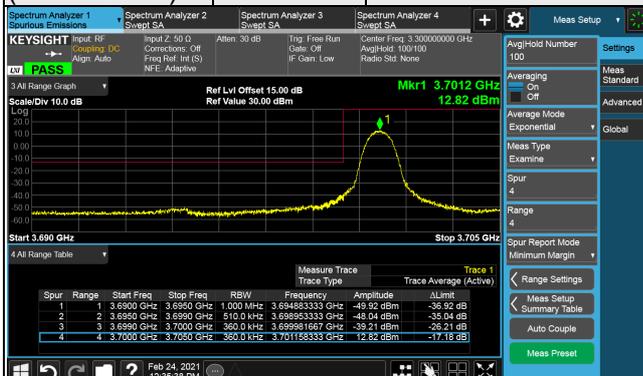
$\pi/2$ BPSK

1 RB / 0 RB Offset

Channel 652332
(3784.98MHz)

$\pi/2$ BPSK

1 RB / 77 RB Offset



Channel 647668
(3715.02MHz)

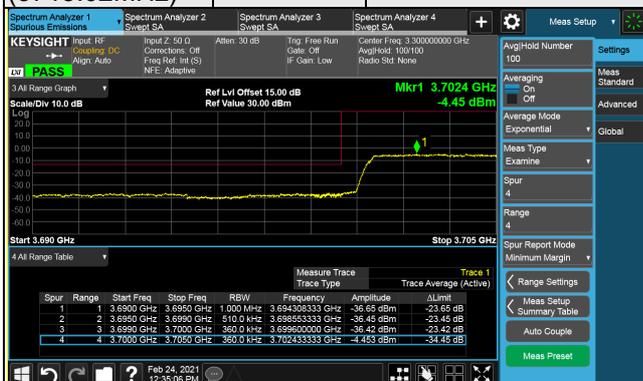
$\pi/2$ BPSK

78 RB / 0 RB Offset

Channel 652332
(3784.98MHz)

$\pi/2$ BPSK

78 RB / 0 RB Offset



n78, Channel Bandwidth 40MHz

Channel 648000
(3720.00MHz)

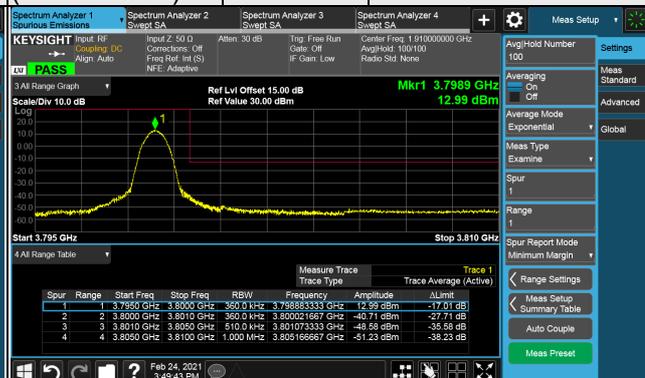
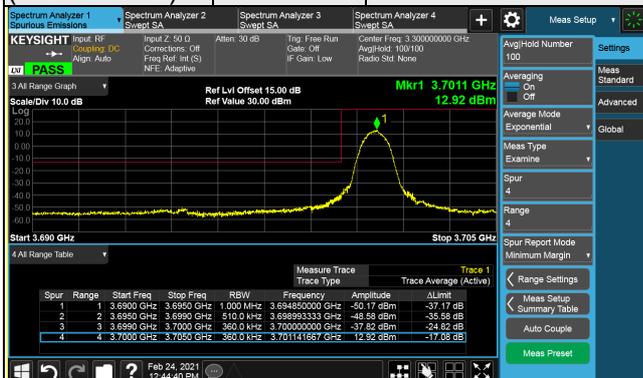
$\pi/2$ BPSK

1 RB / 0 RB Offset

Channel 652000
(3780.00MHz)

$\pi/2$ BPSK

1 RB / 105 RB Offset



Channel 648000
(3720.00MHz)

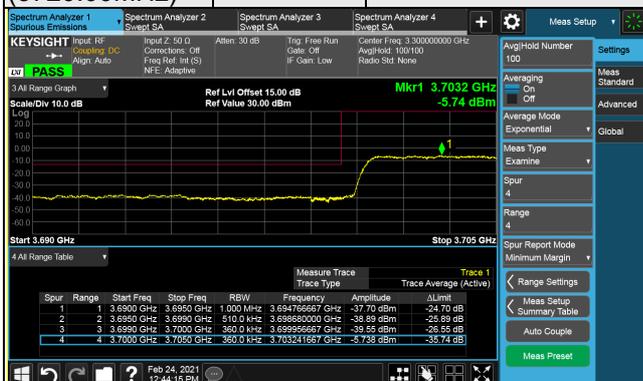
$\pi/2$ BPSK

106 RB / 0 RB Offset

Channel 652000
(3780.00MHz)

$\pi/2$ BPSK

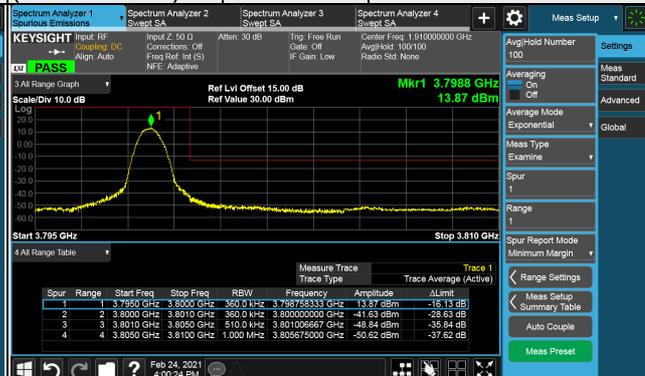
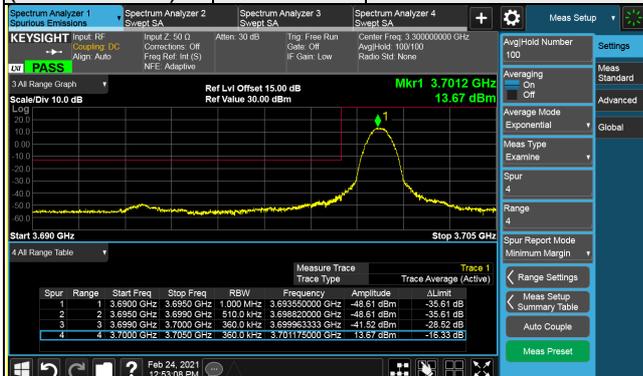
106 RB / 0 RB Offset



n78, Channel Bandwidth 50MHz

Channel 648334 (3725.01MHz) $\pi/2$ BPSK 1 RB / 0 RB Offset

Channel 651666 (3774.99MHz) $\pi/2$ BPSK 1 RB / 132 RB Offset



Channel 648334 (3725.01MHz) $\pi/2$ BPSK 133 RB / 0 RB Offset

Channel 651666 (3774.99MHz) $\pi/2$ BPSK 133 RB / 0 RB Offset

