

FCC Test Report

(Spot Check: ENDC: n41+Band 2/25/26/41/66)

Report No.: RF200109E02E-12

FCC ID: 2AQ68T99W175M

Original FCC ID: 2AQ68T99W175

Test Model: T99W175M

Received Date: May 29, 2020

Test Date: Jul. 03 ~ Aug. 11, 2020

Issued Date: Aug. 11, 2020

Applicant: Hon Lin Technology Co., Ltd.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200109E02E-12	Original release	Aug. 11, 2020

1 Certificate of Conformity

Product: 5G WWAN Module

Brand: Foxconn

Test Model: T99W175M

Sample Status: Engineering Sample

Applicant: Hon Lin Technology Co., Ltd.

Test Date: Jul. 03 ~ Aug. 11, 2020

Standards: FCC Part 22, Subpart H
FCC Part 24, Subpart E
FCC Part 27, Subpart M, L
FCC Part 90, Subpart S

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:** Aug. 11, 2020
Pettie Chen / Senior Specialist

Approved by : Bruce Chen , **Date:** Aug. 11, 2020
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

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.

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

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective radiated power	Pass	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -30.2dB at 90.45MHz.

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

Applied Standard: FCC Part 27 & Part 2					
FCC Clause			Test Item	Result	Remarks
n41	LTE B41	LTE B66			
2.1046 27.50 (h)(2)	2.1046 27.50 (h)(2)	2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power / Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1053 27.53 (m)(4)(6)	2.1053 27.53 (m)(4)(6)	2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -18.2dB at 90.45MHz.

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

Applied Standard: FCC Part 90 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 90.635(b)	Effective Radiated Power	Pass	Meet the requirement of limit.

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM- SM8000	CABLE-CH9-02 (248780+171006)	Jan. 18, 2020	Jan. 17, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 18, 2020	Jan. 17, 2021
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
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2020	May 31, 2021
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	U8002A	MY56330015	NA	NA

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

3 General Information

3.1 General Description of EUT

Product	5G WWAN Module
Brand	Foxconn
Test Model	T99W175M
Status of EUT	Engineering Sample
Power Supply Rating	5 Vdc (Host equipment) 3.135Vdc~3.63Vdc (Module)

n41

Modulation Type	$\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM						
Waveform Type	CP-OFDM, DFT-s-OFDM						
Operating Frequency	n41	Channel Bandwidth 20MHz	2506.02MHz ~ 2679.99MHz				
		Channel Bandwidth 40MHz	2516.01MHz ~ 2670.00MHz				
		Channel Bandwidth 50MHz	2521.02MHz ~ 2664.99MHz				
		Channel Bandwidth 60MHz	2526.00MHz ~ 2659.98MHz				
		Channel Bandwidth 80MHz	2536.02MHz ~ 2649.99MHz				
		Channel Bandwidth 90MHz	2541.00MHz ~ 2644.98MHz				
		Channel Bandwidth 100MHz	2546.01MHz ~ 2640.00MHz				
Max. EIRP Power (HPUE)	n41		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
		Channel Bandwidth 20MHz	1233.105mW (30.91dBm)	1227.439mW (30.89dBm)	1140.250mW (30.57dBm)	1059.254mW (30.25dBm)	602.560mW (27.80dBm)
		Channel Bandwidth 40MHz	1196.741mW (30.78dBm)	1193.988mW (30.77dBm)	1156.112mW (30.63dBm)	1086.426mW (30.36dBm)	638.263mW (28.05dBm)
		Channel Bandwidth 50MHz	1216.186mW (30.85dBm)	1210.598mW (30.83dBm)	1164.126mW (30.66dBm)	1059.254mW (30.25dBm)	638.263mW (28.05dBm)
		Channel Bandwidth 60MHz	1270.574mW (31.04dBm)	1213.389mW (30.84dBm)	1137.627mW (30.56dBm)	1069.055mW (30.29dBm)	635.331mW (28.03dBm)
		Channel Bandwidth 80MHz	1247.384mW (30.96dBm)	1205.036mW (30.81dBm)	1127.197mW (30.52dBm)	1083.927mW (30.35dBm)	622.300mW (27.94dBm)
		Channel Bandwidth 90MHz	1250.259mW (30.97dBm)	1188.502mW (30.75dBm)	1156.112mW (30.63dBm)	1061.696mW (30.26dBm)	626.614mW (27.97dBm)
Channel Bandwidth 100MHz	1256.030mW (30.99dBm)	1207.814mW (30.82dBm)	1169.499mW (30.68dBm)	1028.016mW (30.12dBm)	625.173mW (27.96dBm)		
Max. EIRP Power	n41		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
		Channel Bandwidth 20MHz	706.318mW (28.49dBm)	724.436mW (28.60dBm)	676.083mW (28.30dBm)	599.791mW (27.78dBm)	353.183mW (25.48dBm)
		Channel Bandwidth 40MHz	701.455mW (28.46dBm)	695.024mW (28.42dBm)	669.885mW (28.26dBm)	606.736mW (27.83dBm)	338.978mW (25.67dBm)
		Channel Bandwidth 50MHz	704.693mW (28.48dBm)	709.578mW (28.51dBm)	660.693mW (28.20dBm)	619.441mW (27.92dBm)	374.111mW (25.73dBm)
		Channel Bandwidth 60MHz	724.436mW (28.60dBm)	719.449mW (28.57dBm)	642.688mW (28.08dBm)	605.341mW (27.82dBm)	370.681mW (25.69dBm)
		Channel Bandwidth 80MHz	709.578mW (28.51dBm)	706.318mW (28.49dBm)	677.642mW (28.31dBm)	615.177mW (27.89dBm)	365.595mW (25.63dBm)
		Channel Bandwidth 90MHz	739.605mW (28.69dBm)	679.204mW (28.32dBm)	687.068mW (28.37dBm)	623.735mW (27.95dBm)	363.078mW (25.60dBm)
Channel Bandwidth 100MHz	717.794mW (28.56dBm)	711.214mW (28.52dBm)	671.429mW (28.27dBm)	602.560mW (27.80dBm)	363.915mW (25.61dBm)		

Emission Designator	n41		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
		Channel Bandwidth 20MHz	18M0G7D	17M8G7D	17M8D7W	17M8D7W	18M1D7W
		Channel Bandwidth 40MHz	37M5G7D	37M8G7D	37M8D7W	37M8D7W	37M8D7W
		Channel Bandwidth 50MHz	47M1G7D	47M5G7D	47M5D7W	47M5D7W	47M4D7W
		Channel Bandwidth 60MHz	57M9G7D	57M9G7D	57M9D7W	57M9D7W	57M9D7W
		Channel Bandwidth 80MHz	77M2G7D	77M5G7D	77M5D7W	77M5D7W	77M5D7W
		Channel Bandwidth 90MHz	86M9G7D	87M5G7D	87M5D7W	87M5D7W	87M3D7W
Channel Bandwidth 100MHz	96M6G7D	97M4G7D	97M4D7W	97M3D7W	97M4D7W		

LTE Band

Modulation Type	QPSK, 16QAM, 64QAM, 256QAM		
Operating Frequency	LTE Band 2	Channel Bandwidth 1.4MHz	1850.7MHz ~1909.3MHz
		Channel Bandwidth 3MHz	1851.5MHz ~1908.5MHz
		Channel Bandwidth 5MHz	1852.5MHz ~1907.5MHz
		Channel Bandwidth 10MHz	1855.0MHz ~1905.0MHz
		Channel Bandwidth 15MHz	1857.5MHz ~1902.5MHz
		Channel Bandwidth 20MHz	1860.0MHz ~1900.0MHz
	LTE Band 25	Channel Bandwidth 1.4MHz	1850.7~1914.3MHz
		Channel Bandwidth 3MHz	1851.5~1913.5MHz
		Channel Bandwidth 5MHz	1852.5~1912.5MHz
		Channel Bandwidth 10MHz	1855.0~1910.0MHz
		Channel Bandwidth 15MHz	1857.5~1907.5MHz
		Channel Bandwidth 20MHz	1860.0~1905.0MHz
	LTE Band 26 (Part 22)	Channel Bandwidth 1.4MHz	824.7~848.3MHz
		Channel Bandwidth 3MHz	825.5~847.5MHz
		Channel Bandwidth 5MHz	826.5~846.5MHz
		Channel Bandwidth 10MHz	829.0~844.0MHz
		Channel Bandwidth 15MHz	831.5~841.5MHz
	LTE Band 26 (Part 90)	Channel Bandwidth 1.4MHz	814.7MHz ~ 823.3MHz
		Channel Bandwidth 3MHz	815.5MHz ~ 822.5MHz
		Channel Bandwidth 5MHz	816.5MHz ~ 821.5MHz
		Channel Bandwidth 10MHz	819.0MHz
	LTE Band 41	Channel Bandwidth 5MHz	2498.5MHz ~ 2687.5 MHz
		Channel Bandwidth 10MHz	2501.0MHz ~ 2685.0 MHz
		Channel Bandwidth 15MHz	2503.5MHz ~ 2682.5 MHz
		Channel Bandwidth 20MHz	2506.0MHz ~ 2680.0 MHz
	LTE Band 66	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1779.3MHz
		Channel Bandwidth 3MHz	1711.5MHz ~ 1778.5MHz
		Channel Bandwidth 5MHz	1712.5MHz ~ 1777.5MHz
Channel Bandwidth 10MHz		1715.0MHz ~ 1775.0MHz	
Channel Bandwidth 15MHz		1717.5MHz ~ 1772.5MHz	
Channel Bandwidth 20MHz		1720.0MHz ~ 1770.0MHz	

Max. ERP Power	LTE Band 26 (Part 22)		QPSK	16QAM	64QAM	256QAM	
		Channel Bandwidth 1.4MHz	284.446mW (24.54dBm)	223.357mW (23.49dBm)	185.780mW (22.69dBm)	142.889mW (21.55dBm)	
	Channel Bandwidth 3MHz	289.734mW (24.62dBm)	221.309mW (23.45dBm)	182.810mW (22.62dBm)	145.546mW (21.63dBm)		
	Channel Bandwidth 5MHz	289.734mW (24.62dBm)	224.388mW (23.51dBm)	177.828mW (22.50dBm)	143.880mW (21.58dBm)		
	Channel Bandwidth 10MHz	282.488mW (24.51dBm)	227.510mW (23.57dBm)	179.061mW (22.53dBm)	142.561mW (21.54dBm)		
	Channel Bandwidth 15MHz	288.403mW (24.60dBm)	227.510mW (23.57dBm)	183.654mW (22.64dBm)	142.561mW (21.54dBm)		
	LTE Band 26 (Part 90)	Channel Bandwidth 1.4MHz	291.743mW (24.65dBm)	228.034mW (23.58dBm)	180.717mW (22.57dBm)	143.219mW (21.56dBm)	
		Channel Bandwidth 3MHz	283.139mW (24.52dBm)	226.464mW (23.55dBm)	177.419mW (22.49dBm)	138.357mW (21.41dBm)	
		Channel Bandwidth 5MHz	281.190mW (24.49dBm)	226.986mW (23.56dBm)	185.353mW (22.68dBm)	144.212mW (21.59dBm)	
		Channel Bandwidth 10MHz	278.612mW (24.45dBm)	216.272mW (23.35dBm)	185.780mW (22.69dBm)	136.773mW (21.36dBm)	
Max. EIRP Power	LTE Band 2		QPSK	16QAM	64QAM	256QAM	
		Channel Bandwidth 1.4MHz	522.396mW (27.18dBm)	413.048mW (26.16dBm)	327.341mW (25.15dBm)	264.241mW (24.22dBm)	
		Channel Bandwidth 3MHz	504.661mW (27.03dBm)	411.150mW (26.14dBm)	328.852mW (25.17dBm)	264.850mW (24.23dBm)	
		Channel Bandwidth 5MHz	530.884mW (27.25dBm)	412.098mW (26.15dBm)	334.195mW (25.24dBm)	264.241mW (24.22dBm)	
		Channel Bandwidth 10MHz	522.396mW (27.18dBm)	427.563mW (26.31dBm)	327.341mW (25.15dBm)	270.396mW (24.32dBm)	
		Channel Bandwidth 15MHz	526.017mW (27.21dBm)	419.759mW (26.23dBm)	334.965mW (25.25dBm)	271.019mW (24.33dBm)	
		Channel Bandwidth 20MHz	526.017mW (27.21dBm)	417.830mW (26.21dBm)	332.660mW (25.22dBm)	269.774mW (24.31dBm)	
		LTE Band 25	Channel Bandwidth 1.4MHz	523.600mW (27.19dBm)	412.098mW (26.15dBm)	332.660mW (25.22dBm)	274.789mW (24.39dBm)
			Channel Bandwidth 3MHz	537.032mW (27.30dBm)	402.717mW (26.05dBm)	334.195mW (25.24dBm)	273.527mW (24.37dBm)
			Channel Bandwidth 5MHz	537.032mW (27.30dBm)	424.620mW (26.28dBm)	331.894mW (25.21dBm)	283.792mW (24.53dBm)
			Channel Bandwidth 10MHz	524.807mW (27.20dBm)	415.911mW (26.19dBm)	339.625mW (25.31dBm)	289.068mW (24.61dBm)
			Channel Bandwidth 15MHz	527.230mW (27.22dBm)	421.697mW (26.25dBm)	322.107mW (25.08dBm)	287.740mW (24.59dBm)
			Channel Bandwidth 20MHz	538.270mW (27.31dBm)	417.830mW (26.21dBm)	334.965mW (25.25dBm)	283.792mW (24.53dBm)
		LTE Band 41 (HPUE)	Channel Bandwidth 5MHz	1140.250mW (30.57dBm)	895.365mW (29.52dBm)	706.318mW (28.49dBm)	547.016mW (27.38dBm)
			Channel Bandwidth 10MHz	1166.810mW (30.67dBm)	926.830mW (29.67dBm)	722.770mW (28.59dBm)	550.808mW (27.41dBm)
			Channel Bandwidth 15MHz	1148.154mW (30.60dBm)	920.450mW (29.64dBm)	722.770mW (28.59dBm)	572.796mW (27.58dBm)
			Channel Bandwidth 20MHz	1148.154mW (30.60dBm)	897.429mW (29.53dBm)	716.143mW (28.55dBm)	552.077mW (27.42dBm)
		LTE Band 41	Channel Bandwidth 5MHz	639.735mW (28.06dBm)	494.311mW (26.94dBm)	394.457mW (25.96dBm)	328.852mW (25.17dBm)
			Channel Bandwidth 10MHz	638.263mW (28.05dBm)	506.991mW (27.05dBm)	398.107mW (26.00dBm)	314.051mW (24.97dBm)
			Channel Bandwidth 15MHz	622.300mW (27.94dBm)	494.311mW (26.94dBm)	395.367mW (25.97dBm)	323.594mW (25.10dBm)
			Channel Bandwidth 20MHz	642.688mW (28.08dBm)	497.737mW (26.97dBm)	403.645mW (26.06dBm)	309.030mW (24.90dBm)
		LTE Band 66	Channel Bandwidth 1.4MHz	526.017mW (27.21dBm)	420.727mW (26.24dBm)	334.965mW (25.25dBm)	263.633mW (24.21dBm)
			Channel Bandwidth 3MHz	523.600mW (27.19dBm)	402.717mW (26.05dBm)	308.319mW (24.89dBm)	254.683mW (24.06dBm)
			Channel Bandwidth 5MHz	517.607mW (27.14dBm)	413.048mW (26.16dBm)	334.965mW (25.25dBm)	255.859mW (24.08dBm)
			Channel Bandwidth 10MHz	521.195mW (27.17dBm)	416.869mW (26.20dBm)	327.341mW (25.15dBm)	264.241mW (24.22dBm)
			Channel Bandwidth 15MHz	530.884mW (27.25dBm)	414.954mW (26.18dBm)	334.195mW (25.24dBm)	266.686mW (24.26dBm)
			Channel Bandwidth 20MHz	502.343mW (27.01dBm)	409.261mW (26.12dBm)	325.837mW (25.13dBm)	252.930mW (24.03dBm)

Emission Designator			QPSK	16QAM	64QAM	256QAM
Emission Designator	LTE Band 2	Channel Bandwidth 1.4MHz	1M09G7D	1M09D7W	1M09D7W	1M09D7W
		Channel Bandwidth 3MHz	2M70G7D	2M70D7W	2M70D7W	2M70D7W
		Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M50D7W	4M48D7W
		Channel Bandwidth 10MHz	8M96G7D	8M97D7W	8M97D7W	8M96D7W
		Channel Bandwidth 15MHz	13M5G7D	13M5D7W	13M5D7W	13M5D7W
		Channel Bandwidth 20MHz	18M1G7D	18M0D7W	18M0D7W	18M0D7W
	LTE Band 25	Channel Bandwidth 1.4MHz	1M09G7D	1M09D7W	1M09D7W	1M09D7W
		Channel Bandwidth 3MHz	2M70G7D	2M70D7W	2M70D7W	2M70D7W
		Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M49D7W	4M49D7W
		Channel Bandwidth 10MHz	8M95G7D	8M96D7W	8M95D7W	8M95D7W
		Channel Bandwidth 15MHz	13M5G7D	13M4D7W	13M4D7W	13M4D7W
		Channel Bandwidth 20MHz	17M9G7D	17M9D7W	18M0D7W	17M9D7W
	LTE Band 26 (Part 22)	Channel Bandwidth 1.4MHz	1M09G7D	1M09D7W	1M09D7W	1M09D7W
		Channel Bandwidth 3MHz	2M70G7D	2M70D7W	2M70D7W	2M70D7W
		Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M50D7W	4M49D7W
		Channel Bandwidth 10MHz	8M96G7D	8M96D7W	8M96D7W	8M96D7W
	LTE Band 26 (Part 90)	Channel Bandwidth 1.4MHz	1M09G7D	1M09D7W	1M09D7W	1M08D7W
		Channel Bandwidth 3MHz	2M70G7D	2M70D7W	2M69D7W	2M69D7W
		Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M49D7W	4M48D7W
		Channel Bandwidth 10MHz	8M96G7D	8M96D7W	8M96D7W	8M95D7W
	LTE Band 41	Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M50D7W	4M48D7W
		Channel Bandwidth 10MHz	8M96G7D	8M97D7W	8M97D7W	8M96D7W
		Channel Bandwidth 15MHz	13M5G7D	13M5D7W	13M5D7W	13M4D7W
		Channel Bandwidth 20MHz	17M9G7D	17M9D7W	18M0D7W	17M9D7W
LTE Band 66	Channel Bandwidth 1.4MHz	1M09G7D	1M09D7W	1M09D7W	1M09D7W	
	Channel Bandwidth 3MHz	2M70G7D	2M70D7W	2M70D7W	2M70D7W	
	Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M50D7W	4M49D7W	
	Channel Bandwidth 10MHz	8M96G7D	8M97D7W	8M97D7W	8M97D7W	
	Channel Bandwidth 15MHz	13M5G7D	13M5D7W	13M5D7W	13M5D7W	
	Channel Bandwidth 20MHz	18M0G7D	18M0D7W	18M0D7W	18M0D7W	
Antenna Type	Refer to Note as below					
Antenna Connector	Refer to Note as below					
Accessory Device	NA					
Cable Supplied	NA					

Output Power / Emission Designator	n41+LTE Band 2		Maximum EIRP	Sum Bandwidth
		n41	776.247mW (28.90dBm)	75M8D7W
		LTE Band 2 (EIRP)	558.470mW (27.47dBm)	
			EIRP	MAX Sum Bandwidth
		n41	636.796mW (28.04dBm)	115MD7W
		LTE Band 2 (EIRP)	490.908mW (26.91dBm)	
	n41+LTE Band 25		Maximum EIRP	Sum Bandwidth
		n41	776.247mW (28.90dBm)	66M8D7W
		LTE Band 25 (EIRP)	558.470mW (27.47dBm)	
			EIRP	MAX Sum Bandwidth
		n41	636.796mW (28.04dBm)	115MD7W
		LTE Band 25 (EIRP)	307.610mW (24.88dBm)	
	n41+LTE Band 26 (Part 22)		Maximum EIRP/ERP	Sum Bandwidth
		n41	776.247mW (28.90dBm)	60M6D7W
		LTE Band 26 (ERP)	306.196mW (24.86dBm)	
			EIRP/ERP	MAX Sum Bandwidth
		n41	636.796mW (28.04dBm)	111MD7W
		LTE Band 26 (ERP)	259.418mW (24.14dBm)	
	n41+LTE Band 26 (Part 90)		Maximum EIRP/ERP	Sum Bandwidth
		n41	776.247mW (28.90dBm)	62M3D7W
LTE Band 26 (ERP)		306.196mW (24.86dBm)		
		EIRP/ERP	MAX Sum Bandwidth	
n41		636.796mW (28.04dBm)	106MD7W	
LTE Band 26 (ERP)		247.172mW (23.93dBm)		

Output Power / Emission Designator	n41(HPUE)+ LTE Band 41 (Contiguous)		Maximum EIRP	Sum Bandwidth
		n41 (HPUE)	1981.527mW (32.97dBm)	31M4D7W
LTE Band 41 (EIRP)				
		EIRP	MAX Sum Bandwidth	
	n41 (HPUE)	1438.799mW (31.58dBm)	115MD7W	
	LTE Band 41 (EIRP)			
		Maximum EIRP	Sum Bandwidth	
	n41(HPUE)+ LTE Band 41 (Non-Contiguous)	n41 (HPUE)	1321.296mW (31.21dBm)	31M4D7W
		LTE Band 41 (EIRP)	662.217mW (28.21dBm)	
		EIRP	MAX Sum Bandwidth	
		n41 (HPUE)	1111.732mW (30.46dBm)	115MD7W
		LTE Band 41 (EIRP)	327.341mW (25.15dBm)	
		Maximum EIRP	Sum Bandwidth	
	n41+ LTE Band 41(HPUE) (Contiguous)	n41	2192.805mW (32.96dBm)	71M3D7W
		LTE Band 41(HPUE) (EIRP)		
		EIRP	MAX Sum Bandwidth	
		n41	1230.269mW (30.90dBm)	115MD7W
		LTE Band 41(HPUE) (EIRP)		
		Maximum EIRP	Sum Bandwidth	
	n41+ LTE Band 41(HPUE) (Non-Contiguous)	n41	776.247mW (28.90dBm)	71M3D7W
		LTE Band 41(HPUE) (EIRP)	1202.264mW (30.80dBm)	
		EIRP	MAX Sum Bandwidth	
		n41	636.796mW (28.04dBm)	115MD7W
		LTE Band 41(HPUE) (EIRP)	594.292mW (27.74dBm)	
		Maximum EIRP	Sum Bandwidth	
	n41+LTE Band 41 (Contiguous)	n41	1438.799mW (31.58dBm)	71M3D7W
		LTE Band 41 (EIRP)		
		EIRP	MAX Sum Bandwidth	
		n41	963.829mW (29.84dBm)	115MD7W
		LTE Band 41 (EIRP)		
		Maximum EIRP	Sum Bandwidth	
	n41+LTE Band 41 (Non-Contiguous)	n41	776.247mW (28.90dBm)	71M3D7W
		LTE Band 41 (EIRP)	662.217mW (28.21dBm)	
		EIRP	MAX Sum Bandwidth	
		n41	636.796mW (28.04dBm)	115MD7W
		LTE Band 41 (EIRP)	327.341mW (25.15dBm)	
		Maximum EIRP	Sum Bandwidth	
	n41+LTE Band 66	n41	776.247mW (28.90dBm)	66M8D7W
		LTE Band 66 (EIRP)	327.341mW (25.15dBm)	
		EIRP	MAX Sum Bandwidth	
		n41	636.796mW (28.04dBm)	115MD7W
		LTE Band 66 (EIRP)	403.645mW (26.06dBm)	

Note:

1. This report is a supplementary report to the original BV CPS report no.: RF200109E02B-12. The difference compared with original report is only adding mmWave hardware, mmWave function is disabled by software. Exhibit prepared for FCC Spot Check Verification report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit. Radiated emission and output power verification worst test refer to original report.

2. There are four Difference HW of T99W175M.

Brand	Model	HW
Foxconn	T99W175M	1. 3G+LTE+Sub6+mmWave+eSIM
		2. 3G+LTE+Sub6+mmWave+w/o eSIM
		3. 3G+LTE+Sub6+mmWave+eSIM+GNSS connector
		4. 3G+LTE+Sub6+mmWave+w/o eSIM+GNSS connector

*After pre-testing, "HW: 1. 3G+LTE+Sub6+mmWave+eSIM" is the worst for the final tests.

3. After pre-testing, "DFT-s-OFDM" is the worst for the final tests.

4. The following antennas were provided to the EUT.

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain(dBi)	Frequency range (MHz)	Antenna Type	Connector Type
1		WHA YU	C107-511720-A	4.41	660~803	PCB	I-PEX
2		WHA YU	C107-511721-A	3.81 4.03	791~960 1447.9~1606	PCB	I-PEX
3		WHA YU	C107-511722-A	4.27 5.31	1710~2170 2500~2690	PCB	I-PEX
4		WHA YU	C107-511723-A	2.99 0.92	2300~2400 3500~3700	PCB	I-PEX
5		WHA YU	C107-511724-A	6.45	5150~5925	PCB	I-PEX
6		WHA YU	C107-511725-A	4.89	3400~3700	PCB	I-PEX
7		AVX	5000106-R1-X01	2.91	699~803	Monopole	I-PEX
8		AVX	5000107-R1-X01	2.59	791~960	Monopole	I-PEX
9		AVX	5000108-R1-X01	2.85	1427~1610	Monopole	I-PEX
10		AVX	5000109-R1-X01	2.23 2.94	1710~2200 5150~5925	Monopole	I-PEX
11		AVX	5000110-R1-X01	0.9	2300~2690	Monopole	I-PEX
12		AVX	5000111-R1-X01	0.87	3300~5000	Monopole	I-PEX
13	Tx1/ Rx1	Ethertronics	5003806	0.4 -1.61 0.39 2.95 1.98 0.38 0.83 2.31	698-821 824-960 1425-1515 1710-2200 2300-2690 3300-4200 4400-5000 5150-5925	PIFA	I-PEX
	Rx2	Ethertronics	5003807	-2.24 -4.52 2.87 2.99 2.93 2.91 2.23 -0.85 -3.04	716-821 824-960 1425-1515 1557-1610 1805-2200 2300-2690 3300-4200 4400-5000 5150-5925	PIFA	I-PEX
	Tx2/ Rx3	Ethertronics	5003806	2.21 2.25 -0.45 2.6	1710-2200 2300-2690 3300-4200 4400-5000	PIFA	I-PEX
	Rx4	Ethertronics	5003700	1.38 2.87 0.6 -2.09	1805-2200 2300-2690 3300-4200 4400-5000	PIFA	I-PEX

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain(dBi)	Frequency range (MHz)	Antenna Type	Connector Type
14	Ant. 0 (TX/RX)	Master Wave	NA	2.4	880~960	PCB	I-PEX
				2.2	1020~2170		
				2.9	2545~2595		
				2.9	3565~3600		
				2.9	3900~4000		
	NA	GPS					
	Ant. 2 (TX/RX)	Master Wave	NA	NA	880~960	PCB	I-PEX
				2.2	1020~2170		
				2.8	2545~2595		
				2.9	3565~3600		
				2.8	3900~4000		
	NA	GPS					
	Ant. 1 (RX)	Master Wave	NA	NA	880~960	PCB	I-PEX
				5.3	1020~2170		
				5.1	2545~2595		
				4.3	3565~3600		
4.5				3900~4000			
NA	GPS						
Ant. 3 (RX)	Master Wave	NA	1.3	880~960	PCB	I-PEX	
			6.8	1020~2170			
			3.7	2545~2595			
			6.4	3565~3600			
			6.2	3900~4000			
			3.7	GPS			

*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.

*The antenna for the final tests as following table.

	Band	Antenna
5GNR	41 (30kHz) /20/40/50/60/80/90/100	Antenna 3

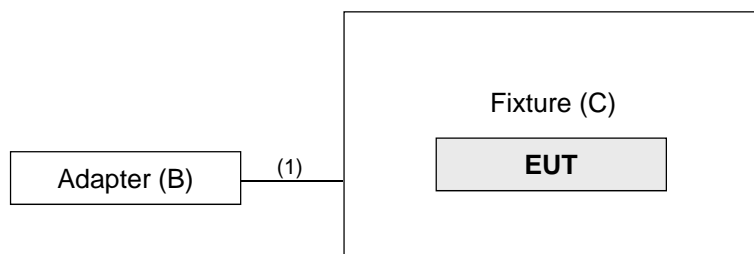
	Band	Antenna
LTE	2	Antenna 3
	25	Antenna 3
	26	Antenna 2
	41	Antenna 3
	66	Antenna 3

5. The EUT supports the following ENDC configuration.

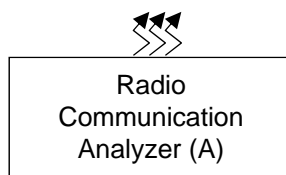
5GNR	FCC 5G FR1			ENDC
	Band	SCS	Bandwidth (MHz)	
	n2	15kHz	5/10/15/20	Band 5/12/13/30/48/66
	n5	15kHz	5/10/15/20	Band 2/7/12/48/66
	n7	15kHz	5/10/15/20	Band 5/12
	n12	15kHz	5/10/15	Band 2/66
	n41	30kHz	20/40/50/60/80/90/100	Band 2/25/26/66/41
	n66	15kHz	5/10/15/20	Band 5/12/13/30/48/71
	n71	15kHz	5/10/15/20	Band 2/7/66

*n41 (HPUE) is support LTE Band 41 only.

3.2 Configuration of System under Test



Remote site



3.2.1 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Radio Communication Analyzer	Anritsu	MT8821C	6261806803	NA	-
B.	Adapter	LITEON	PA-1050-39	NA	NA	-
C.	Fixture	NA	NA	NA	NA	Provided by client.

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.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	1.5	Y	0	-

3.3 Test Mode Applicability and Tested Channel Detail

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

n41

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK / 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
-		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 53 RB Offset 1 RB / 105 RB Offset 53 RB / 0 RB Offset 53 RB / 26 RB Offset 53 RB / 53 RB Offset 106 RB / 0 RB Offset
-		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 66 RB Offset 1 RB / 132 RB Offset 66 RB / 0 RB Offset 66 RB / 33 RB Offset 66 RB / 66 RB Offset 133 RB / 0 RB Offset
-		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 81 RB Offset 1 RB / 161 RB Offset 81 RB / 0 RB Offset 81 RB / 40 RB Offset 81 RB / 81 RB Offset 162 RB / 0 RB Offset
-		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 108 RB Offset 1 RB / 216 RB Offset 108 RB / 0 RB Offset 108 RB / 54 RB Offset 108 RB / 108 RB Offset 217 RB / 0 RB Offset
-		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 122 RB Offset 1 RB / 244 RB Offset 122 RB / 0 RB Offset 122 RB / 61 RB Offset 122 RB / 122 RB Offset 245 RB / 0 RB Offset
-		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 136 RB Offset 1 RB / 272 RB Offset 136 RB / 0 RB Offset 136 RB / 68 RB Offset 136 RB / 136 RB Offset 273 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	505200 to 531996	518598 (2592.99MHz)	60MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	505200 to 531996	518598 (2592.99MHz)	60MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset

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

LTE Band 25

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	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
-		26055 to 26675	26055 (1851.5MHz), 26365 (1882.5MHz), 26675 (1913.5MHz)	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
-		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	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
-		26090 to 26640	26090 (1855.0MHz), 26365 (1882.5MHz), 26640 (1910.0MHz)	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
-		26115 to 26615	26115 (1857.5MHz), 26365 (1882.5MHz), 26615 (1907.5MHz)	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
-		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	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	26140 to 26590	26365 (1882.5MHz)	20MHz	QPSK	1 RB / 99 RB Offset
-	Radiated Emission Above 1GHz	26140 to 26590	26365 (1882.5MHz)	20MHz	QPSK	1 RB / 99 RB Offset

LTE Band 26 (Part 22)

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	26797 to 27033	26797 (824.7MHz), 26915 (836.5MHz), 27033 (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
		26805 to 27025	26805 (825.5MHz), 26915 (836.5MHz), 27025 (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
		26815 to 27015	26815 (826.5MHz), 26915 (836.5MHz), 27015 (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
		26840 to 26990	26840 (829MHz), 26915 (836.5MHz), 26990 (844MHz)	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
		26865 to 26965	26865 (831.5MHz), 26915 (836.5MHz), 26965 (841.5MHz)	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

LTE Band 26 (Part 90)

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	26697 to 26783	26697 (814.7MHz), 26740 (819.0MHz), 26783 (823.3MHz)	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
		26705 to 26775	26705 (815.5MHz), 26740 (819.0MHz), 26775 (822.5MHz)	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
		26715 to 26765	26715 (816.5MHz), 26740 (819.0MHz), 26765 (821.5MHz)	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
		26740	26740 (819.0MHz)	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

LTE Band 41

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

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

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP / ERP	25deg. C, 70%RH	5Vdc	James Yang
Radiated Emission	22deg. C, 66%RH 22deg. C, 65%RH	120Vac, 60Hz	Greg Lin

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

FCC 47 CFR Part 90

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 971168 D02 Misc Rev Approv License Devices v02r01

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

n41:

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

LTE Band 4, LTE Band 66:

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

LTE Band 2, LTE Band 25:

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

LTE Band 26 (Part 22):

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

LTE Band 26 (Part 90):

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

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 / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is

given in Equation as follows:

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

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:



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

4.1.4 Test Results

Conducted Output Power (dBm)

n41 (HPUE)						
BW	MCS Index	Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	$\pi/2$ BPSK	1	0	25.25	25.34	25.32
		1	25	25.53	25.24	25.53
		1	50	25.60	25.30	25.36
		25	0	24.85	25.26	25.07
		25	12	25.15	25.19	25.09
		25	25	24.85	24.71	25.06
		51	0	25.43	25.13	25.29
	QPSK	1	0	25.43	25.26	25.29
		1	25	25.44	25.26	25.26
		1	50	25.44	25.58	25.25
		25	0	25.34	25.07	25.21
		25	12	25.24	25.16	25.26
		25	25	25.15	25.19	25.25
		51	0	25.16	25.36	25.12
	16QAM	1	0	25.16	25.07	24.98
		1	25	25.02	25.26	25.02
		1	50	25.21	24.79	25.09
		25	0	24.92	25.14	24.57
		25	12	24.75	24.60	24.48
		25	25	24.94	24.47	24.55
		51	0	24.54	24.84	24.98
	64QAM	1	0	24.49	24.67	24.76
		1	25	24.70	24.47	24.82
		1	50	24.76	24.80	24.94
		25	0	24.48	24.54	24.69
		25	12	24.14	24.28	24.52
		25	25	24.10	24.66	24.36
		51	0	24.43	24.23	24.47
	256QAM	1	0	22.23	22.04	22.11
		1	25	22.49	22.49	22.49
1		50	22.32	22.31	22.44	
25		0	21.98	22.25	22.11	
25		12	21.42	22.32	22.09	
25		25	22.17	21.66	22.02	
51		0	22.32	22.27	21.80	

n41 (HPUE)						
BW	MCS Index	Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	$\pi/2$ BPSK	1	0	25.32	25.25	25.41
		1	53	25.47	25.42	25.29
		1	105	25.22	25.47	25.39
		53	0	24.81	25.25	25.20
		53	26	25.17	24.92	24.92
		53	53	25.22	24.91	25.19
		106	0	25.11	25.18	24.79
	QPSK	1	0	25.45	25.42	25.38
		1	53	25.21	25.25	25.42
		1	105	25.37	25.46	25.37
		53	0	25.24	25.12	25.14
		53	26	25.22	24.95	24.99
		53	53	25.15	25.28	25.15
		106	0	25.17	25.06	25.21
	16QAM	1	0	25.17	25.00	24.76
		1	53	25.12	25.17	25.18
		1	105	25.04	25.23	25.32
		53	0	24.64	24.62	24.97
		53	26	24.64	24.92	24.76
		53	53	24.90	24.87	24.89
		106	0	24.66	24.87	24.70
	64QAM	1	0	24.73	25.05	24.73
		1	53	24.71	24.65	24.93
		1	105	24.91	24.81	24.46
		53	0	24.53	24.71	24.50
		53	26	24.55	24.62	24.61
		53	53	24.66	24.34	24.52
		106	0	24.69	24.32	24.72
	256QAM	1	0	22.13	22.51	22.51
		1	53	22.23	22.19	22.19
		1	105	22.39	22.74	22.21
		53	0	21.77	22.23	22.23
		53	26	21.79	21.82	21.59
		53	53	22.11	22.22	21.72
		106	0	22.30	21.70	21.70

n41 (HPUE)						
BW	MCS Index	Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	$\pi/2$ BPSK	1	0	25.46	25.33	25.21
		1	66	25.54	25.40	25.29
		1	132	25.41	25.42	25.36
		66	0	25.46	25.09	24.92
		66	33	25.26	24.97	25.44
		66	66	25.27	24.70	25.28
		133	0	24.97	25.24	24.77
	QPSK	1	0	25.28	25.40	25.35
		1	66	25.41	25.45	25.29
		1	132	25.52	25.23	25.17
		66	0	25.14	25.26	25.31
		66	33	25.12	25.07	25.31
		66	66	25.10	25.23	25.11
		133	0	24.94	24.97	25.13
	16QAM	1	0	25.32	24.95	24.87
		1	66	25.08	24.73	24.97
		1	132	25.27	25.35	24.78
		66	0	24.62	24.99	24.75
		66	33	25.01	25.03	25.22
		66	66	24.72	25.10	24.55
		133	0	24.50	24.55	25.14
	64QAM	1	0	24.58	24.59	24.71
		1	66	24.88	24.58	24.63
		1	132	24.94	24.65	24.88
		66	0	24.45	24.16	24.37
		66	33	24.19	24.47	24.58
		66	66	24.35	24.70	24.65
		133	0	24.62	24.14	24.61
	256QAM	1	0	22.04	22.46	22.38
		1	66	22.23	22.27	22.56
1		132	22.33	22.74	22.09	
66		0	22.11	21.68	22.36	
66		33	22.19	21.68	21.76	
66		66	21.75	22.27	22.32	
133		0	22.31	21.70	22.35	

n41 (HPUE)						
BW	MCS Index	Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	$\pi/2$ BPSK	1	0	25.45	25.73	25.42
		1	81	25.19	25.24	25.51
		1	161	25.38	25.56	25.44
		81	0	25.02	25.10	24.99
		81	40	25.19	25.06	25.30
		81	81	25.31	25.09	25.16
		162	0	25.15	24.98	25.29
	QPSK	1	0	25.43	25.28	25.29
		1	81	25.52	25.20	25.36
		1	161	25.16	25.35	25.53
		81	0	24.90	24.97	25.34
		81	40	25.27	25.08	25.12
		81	81	25.18	25.31	25.22
		162	0	25.08	24.95	24.91
	16QAM	1	0	25.25	25.04	25.13
		1	81	24.83	25.15	25.07
		1	161	25.05	24.97	25.01
		81	0	24.65	24.64	24.40
		81	40	24.89	24.83	24.64
		81	81	24.78	24.96	24.50
		162	0	24.55	25.04	24.62
	64QAM	1	0	24.97	24.64	24.58
		1	81	24.98	24.77	24.72
		1	161	24.58	24.80	24.55
		81	0	24.23	24.29	24.27
		81	40	24.37	24.02	24.41
		81	81	24.44	24.44	24.45
		162	0	24.18	24.59	24.37
	256QAM	1	0	22.52	22.72	22.13
		1	81	22.36	22.70	22.15
1		161	22.14	22.37	22.61	
81		0	21.54	22.29	21.98	
81		40	21.73	22.10	21.79	
81		81	22.25	21.82	22.21	
162		0	21.53	21.91	21.48	

n41 (HPUE)						
BW	MCS Index	Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	$\pi/2$ BPSK	1	0	25.49	25.39	25.56
		1	108	25.37	25.37	25.65
		1	216	25.27	25.32	25.43
		108	0	25.37	25.13	25.20
		108	54	24.85	25.29	25.28
		108	108	25.22	25.00	25.08
		217	0	25.34	24.90	25.13
	QPSK	1	0	25.27	25.47	25.31
		1	108	25.50	25.41	25.34
		1	216	25.38	25.42	25.35
		108	0	25.04	24.97	25.17
		108	54	25.38	25.44	25.12
		108	108	25.28	25.17	25.14
		217	0	25.21	25.14	25.08
	16QAM	1	0	25.21	25.02	25.12
		1	108	24.76	25.12	25.16
		1	216	25.01	24.97	24.88
		108	0	24.75	24.53	24.81
		108	54	24.89	24.84	24.48
		108	108	24.44	24.61	25.16
		217	0	24.74	24.84	24.94
	64QAM	1	0	24.57	24.60	24.71
		1	108	24.66	25.04	24.39
		1	216	24.75	24.54	24.76
		108	0	24.59	24.64	24.36
		108	54	24.42	24.16	24.32
		108	108	24.22	24.52	24.35
		217	0	24.67	24.56	24.08
	256QAM	1	0	22.57	22.44	22.55
		1	108	22.52	22.13	22.37
1		216	22.13	22.63	22.46	
108		0	21.51	21.55	21.95	
108		54	22.15	22.20	21.59	
108		108	21.60	21.55	22.15	
217		0	21.79	22.30	21.62	

n41 (HPUE)						
BW	MCS Index	Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	$\pi/2$ BPSK	1	0	25.66	25.37	25.66
		1	122	25.51	25.35	25.37
		1	244	25.37	25.38	25.37
		122	0	25.22	25.35	25.06
		122	61	25.07	25.23	25.18
		122	122	25.23	25.36	24.91
		245	0	25.16	25.07	25.31
	QPSK	1	0	25.37	25.17	25.19
		1	122	25.44	25.37	25.33
		1	244	25.28	25.30	25.29
		122	0	25.32	25.24	25.23
		122	61	25.38	25.34	25.14
		122	122	25.13	25.28	25.19
		245	0	25.13	25.07	25.14
	16QAM	1	0	25.22	25.32	25.12
		1	122	24.94	25.26	25.15
		1	244	24.92	25.32	25.32
		122	0	24.93	25.18	24.94
		122	61	24.43	24.44	24.60
		122	122	24.98	24.93	24.80
		245	0	24.58	25.08	24.89
	64QAM	1	0	24.95	24.76	24.46
		1	122	24.47	24.52	24.90
		1	244	24.69	24.60	24.56
		122	0	24.33	24.35	24.34
		122	61	24.36	24.58	24.23
		122	122	24.23	24.17	24.28
		245	0	24.33	24.71	24.37
	256QAM	1	0	22.17	22.16	22.30
		1	122	22.34	22.50	22.58
1		244	22.52	22.42	22.66	
122		0	21.61	21.74	22.14	
122		61	22.49	22.07	21.92	
122		122	21.60	22.11	22.07	
245		0	22.04	21.76	21.70	

n41 (HPUE)						
BW	MCS Index	Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	$\pi/2$ BPSK	1	0	25.31	25.49	25.37
		1	136	25.43	25.20	25.58
		1	272	25.59	25.68	25.38
		136	0	25.07	25.40	25.20
		136	68	24.94	25.20	25.38
		136	136	25.34	25.23	25.22
		273	0	25.11	25.10	25.29
	QPSK	1	0	25.13	25.44	25.34
		1	136	25.51	25.35	25.41
		1	272	25.35	25.10	25.20
		136	0	25.42	25.29	25.19
		136	68	25.22	25.12	25.02
		136	136	25.04	25.22	25.10
		273	0	24.98	25.09	24.99
	16QAM	1	0	25.37	24.94	24.94
		1	136	24.75	25.20	24.90
		1	272	25.12	24.87	25.22
		136	0	24.75	24.95	24.66
		136	68	24.45	24.84	24.77
		136	136	24.82	24.64	24.48
		273	0	24.94	24.89	24.96
	64QAM	1	0	24.67	24.53	24.48
		1	136	24.81	24.75	24.72
		1	272	24.64	24.81	24.66
		136	0	24.39	24.16	24.14
		136	68	24.16	24.49	24.64
		136	136	24.66	24.49	24.47
		273	0	24.62	24.21	24.74
	256QAM	1	0	22.28	22.34	22.57
		1	136	22.01	22.22	22.53
1		272	22.61	22.14	22.65	
136		0	22.11	22.36	21.53	
136		68	21.66	22.01	22.01	
136		136	22.19	22.36	21.67	
273		0	21.98	22.29	21.87	

n41						
BW	MCS Index	Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	$\pi/2$ BPSK	1	0	22.77	23.02	22.83
		1	25	23.18	22.91	22.93
		1	50	23.18	23.11	23.02
		25	0	22.31	23.00	22.70
		25	12	22.77	22.76	22.76
		25	25	22.69	22.56	22.88
		51	0	22.81	22.97	22.97
	QPSK	1	0	22.85	22.92	22.86
		1	25	23.21	22.75	22.97
		1	50	23.16	23.29	22.87
		25	0	22.82	22.88	23.02
		25	12	22.66	22.77	22.83
		25	25	22.79	22.81	22.80
		51	0	22.83	22.93	22.95
	16QAM	1	0	22.71	22.83	22.64
		1	25	22.67	22.99	22.63
		1	50	22.94	22.42	22.90
		25	0	22.39	22.57	22.24
		25	12	22.23	22.13	22.24
		25	25	22.81	22.17	22.18
		51	0	22.14	22.63	22.63
	64QAM	1	0	22.25	22.39	22.19
		1	25	22.41	22.15	22.27
		1	50	22.44	22.28	22.45
		25	0	22.01	22.12	22.47
		25	12	21.71	21.76	22.34
		25	25	21.71	22.40	21.97
		51	0	22.03	21.91	21.98
	256QAM	1	0	19.88	19.78	19.74
		1	25	20.07	20.10	20.17
1		50	19.87	19.85	20.09	
25		0	19.52	20.09	19.82	
25		12	19.32	19.84	19.56	
25		25	19.74	19.23	19.63	
51		0	19.90	19.80	19.35	

n41						
BW	MCS Index	Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	$\pi/2$ BPSK	1	0	23.15	22.91	23.00
		1	53	23.07	22.88	22.72
		1	105	23.02	23.05	22.83
		53	0	22.39	22.93	22.80
		53	26	23.12	22.55	22.61
		53	53	22.79	22.44	22.63
		106	0	22.70	22.80	22.68
	QPSK	1	0	23.03	23.11	23.00
		1	53	23.01	22.84	22.90
		1	105	22.81	22.95	23.01
		53	0	22.93	22.85	22.68
		53	26	22.65	22.56	22.65
		53	53	22.60	22.90	22.98
		106	0	22.79	22.66	22.66
	16QAM	1	0	22.69	22.62	22.54
		1	53	22.46	22.95	22.93
		1	105	22.48	22.93	22.68
		53	0	22.16	22.27	22.48
		53	26	22.30	22.49	22.67
		53	53	22.54	22.25	22.26
		106	0	22.14	22.72	22.36
	64QAM	1	0	22.34	22.48	22.17
		1	53	22.27	22.35	22.52
		1	105	22.45	22.49	22.19
		53	0	21.96	22.26	22.12
		53	26	22.33	22.25	22.17
		53	53	22.16	22.18	22.11
		106	0	22.29	21.78	22.35
	256QAM	1	0	19.79	20.08	20.26
		1	53	19.99	19.77	19.84
1		105	20.15	20.36	20.02	
53		0	19.40	19.84	19.77	
53		26	19.48	19.35	19.41	
53		53	19.46	19.76	19.26	
106		0	20.06	19.07	19.52	

n41						
BW	MCS Index	Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	$\pi/2$ BPSK	1	0	23.17	22.80	22.69
		1	66	22.99	22.97	22.89
		1	132	23.12	23.13	23.02
		66	0	23.05	22.57	22.61
		66	33	23.05	22.46	22.94
		66	66	22.99	22.56	22.64
		133	0	22.53	22.84	22.41
	QPSK	1	0	22.99	23.02	23.03
		1	66	23.20	23.04	22.97
		1	132	22.94	22.71	22.70
		66	0	22.55	22.73	22.61
		66	33	22.93	22.98	22.85
		66	66	22.87	22.85	22.65
		133	0	22.72	22.81	22.64
	16QAM	1	0	22.89	22.66	22.56
		1	66	22.78	22.37	22.59
		1	132	22.74	22.74	22.27
		66	0	22.23	22.50	22.48
		66	33	22.83	22.59	22.81
		66	66	22.31	22.65	22.12
		133	0	22.31	22.28	22.47
	64QAM	1	0	22.08	22.40	22.23
		1	66	22.40	22.28	22.15
		1	132	22.52	22.23	22.61
		66	0	22.23	21.62	21.85
		66	33	21.75	21.99	22.26
		66	66	22.11	22.27	22.20
		133	0	22.05	21.75	22.36
	256QAM	1	0	19.73	20.07	20.06
		1	66	19.66	19.68	20.32
1		132	20.09	20.42	19.67	
66		0	19.94	19.58	19.80	
66		33	19.80	19.24	19.39	
66		66	19.47	19.93	19.79	
133		0	19.93	19.53	19.87	

n41						
BW	MCS Index	Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	$\pi/2$ BPSK	1	0	22.99	23.21	23.17
		1	81	22.92	22.93	23.04
		1	161	22.87	23.29	23.21
		81	0	22.64	22.58	22.63
		81	40	22.67	22.89	23.06
		81	81	22.87	22.79	22.90
		162	0	22.57	22.65	23.06
	QPSK	1	0	23.00	22.92	22.90
		1	81	23.18	23.06	23.26
		1	161	22.87	22.76	23.12
		81	0	22.62	22.53	22.94
		81	40	22.67	22.50	22.97
		81	81	22.68	22.92	22.86
		162	0	22.78	22.54	22.57
	16QAM	1	0	22.75	22.60	22.77
		1	81	22.56	22.75	22.62
		1	161	22.68	22.68	22.54
		81	0	22.21	22.13	22.28
		81	40	22.40	22.61	22.36
		81	81	22.32	22.41	22.27
		162	0	22.23	22.58	22.45
	64QAM	1	0	22.39	22.07	22.24
		1	81	22.51	22.34	22.24
		1	161	22.38	22.29	22.46
		81	0	21.76	21.97	21.74
		81	40	21.85	21.70	21.80
		81	81	22.09	22.13	21.83
		162	0	21.73	22.24	21.78
	256QAM	1	0	20.09	20.13	19.77
		1	81	19.88	20.14	19.86
1		161	19.76	20.07	20.38	
81		0	19.15	19.93	19.53	
81		40	19.52	19.78	19.24	
81		81	20.06	19.54	19.67	
162		0	19.10	19.69	19.08	

n41						
BW	MCS Index	Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	$\pi/2$ BPSK	1	0	23.12	23.03	23.14
		1	108	23.20	22.87	23.09
		1	216	23.02	22.90	23.03
		108	0	23.10	22.68	23.01
		108	54	22.47	22.88	22.88
		108	108	22.73	22.59	22.61
		217	0	23.05	22.29	22.66
	QPSK	1	0	23.10	23.18	22.83
		1	108	23.04	22.90	23.05
		1	216	22.90	23.07	22.73
		108	0	22.58	22.62	22.91
		108	54	22.85	22.83	22.45
		108	108	22.78	22.86	22.67
		217	0	22.86	22.70	22.91
	16QAM	1	0	22.78	22.74	22.69
		1	108	22.62	23.00	22.62
		1	216	22.50	22.55	22.46
		108	0	22.29	22.30	22.15
		108	54	22.58	22.51	22.19
		108	108	22.19	22.35	22.60
		217	0	22.31	22.41	22.49
	64QAM	1	0	22.15	22.30	22.40
		1	108	22.18	22.37	22.22
		1	216	22.58	22.36	22.50
		108	0	22.30	22.25	21.86
		108	54	21.99	21.86	21.87
		108	108	21.84	22.29	21.79
		217	0	22.32	22.41	21.82
	256QAM	1	0	20.02	19.96	20.32
		1	108	20.02	19.80	20.13
1		216	19.69	20.27	20.21	
108		0	19.09	19.31	19.68	
108		54	19.93	19.91	19.31	
108		108	19.23	19.24	19.60	
217		0	19.40	19.94	19.33	

n41						
BW	MCS Index	Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	$\pi/2$ BPSK	1	0	23.23	23.17	23.38
		1	122	23.16	22.69	22.96
		1	244	23.05	23.03	22.97
		122	0	22.79	22.86	22.64
		122	61	22.62	22.90	22.52
		122	122	22.55	22.84	22.71
		245	0	22.84	22.74	23.04
	QPSK	1	0	22.92	22.82	22.99
		1	122	22.98	22.77	22.91
		1	244	22.75	22.74	22.98
		122	0	22.87	22.86	22.68
		122	61	22.97	22.87	22.92
		122	122	22.93	23.01	22.74
		245	0	22.79	22.64	22.85
	16QAM	1	0	22.86	22.85	22.86
		1	122	22.66	23.06	22.95
		1	244	22.45	22.98	22.93
		122	0	22.41	22.65	22.52
		122	61	22.20	22.25	22.11
		122	122	22.52	22.69	22.62
		245	0	22.14	22.51	22.51
	64QAM	1	0	22.51	22.34	22.21
		1	122	22.12	22.33	22.64
		1	244	22.20	22.26	22.45
		122	0	21.99	22.00	21.86
		122	61	21.99	22.18	21.76
		122	122	21.96	21.76	21.91
		245	0	22.00	22.36	21.82
	256QAM	1	0	19.84	19.90	19.95
		1	122	19.88	20.05	20.25
1		244	19.99	20.20	20.29	
122		0	19.26	19.27	19.58	
122		61	19.96	19.74	19.70	
122		122	19.33	19.57	19.89	
245		0	19.74	19.37	19.57	

n41						
BW	MCS Index	Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	$\pi/2$ BPSK	1	0	22.99	23.22	22.77
		1	136	22.95	23.04	23.18
		1	272	23.03	23.25	22.97
		136	0	22.69	22.96	22.87
		136	68	22.73	22.93	22.99
		136	136	22.88	23.03	22.69
		273	0	22.48	22.75	22.90
	QPSK	1	0	22.86	23.06	22.97
		1	136	23.21	22.95	22.97
		1	272	23.13	22.97	22.85
		136	0	22.82	22.64	22.79
		136	68	22.84	22.60	22.70
		136	136	22.65	22.63	22.69
		273	0	22.87	22.88	22.56
	16QAM	1	0	22.96	22.64	22.61
		1	136	22.48	22.84	22.48
		1	272	22.73	22.53	22.93
		136	0	22.28	22.81	22.22
		136	68	22.08	22.61	22.71
		136	136	22.39	22.11	22.33
		273	0	22.56	22.43	22.48
	64QAM	1	0	22.13	22.27	22.19
		1	136	22.42	22.30	22.39
		1	272	22.49	22.42	22.18
		136	0	21.85	21.72	21.71
		136	68	21.84	22.24	22.30
		136	136	22.06	21.85	22.01
		273	0	22.05	21.81	22.19
	256QAM	1	0	19.88	19.91	20.28
		1	136	19.86	19.97	20.12
1		272	20.30	19.91	20.23	
136		0	19.76	19.91	19.15	
136		68	19.34	19.73	19.47	
136		136	19.70	19.77	19.37	
273		0	19.57	20.08	19.56	

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	22.49	22.70	22.56
		1	2	22.54	22.69	22.64
		1	5	22.68	22.82	22.91
		3	0	22.27	22.08	22.27
		3	1	21.87	22.57	21.83
		3	3	22.39	22.32	21.90
		6	0	22.39	21.98	22.54
	16QAM	1	0	21.66	21.89	21.78
		1	2	21.83	21.77	21.66
		1	5	21.65	21.89	21.59
		3	0	21.21	21.67	21.11
		3	1	21.05	21.16	21.53
		3	3	21.58	21.08	21.17
		6	0	21.34	21.34	21.48
	64QAM	1	0	20.82	20.81	20.63
		1	2	20.79	20.70	20.81
		1	5	20.55	20.88	20.43
		3	0	20.41	19.92	20.35
		3	1	19.94	20.20	20.66
		3	3	20.22	20.49	20.38
		6	0	20.37	20.16	20.41
	256QAM	1	0	19.95	19.81	19.53
		1	2	19.57	19.51	19.41
		1	5	19.78	19.84	19.56
		3	0	19.69	19.48	19.69
		3	1	19.88	19.85	19.75
		3	3	19.45	19.94	19.49
		6	0	19.39	19.89	19.80

LTE Band 2						
BW	MCS Index	Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	22.76	22.61	22.72
		1	7	22.65	22.71	22.48
		1	14	22.59	22.44	22.55
		8	0	22.30	22.21	22.07
		8	3	22.11	22.40	22.17
		8	7	22.23	22.25	22.06
		15	0	22.65	22.38	21.93
	16QAM	1	0	21.72	21.60	21.69
		1	7	21.68	21.44	21.87
		1	14	21.69	21.62	21.56
		8	0	21.11	21.45	21.28
		8	3	21.35	21.27	20.89
		8	7	21.20	20.93	21.70
		15	0	20.92	21.38	21.46
	64QAM	1	0	20.81	20.78	20.75
		1	7	20.76	20.90	20.70
		1	14	20.74	20.45	20.88
		8	0	20.01	20.48	20.31
		8	3	20.38	19.84	19.98
		8	7	20.61	20.14	20.46
		15	0	20.14	20.02	20.03
	256QAM	1	0	19.29	19.65	19.38
		1	7	19.87	19.71	19.27
		1	14	19.96	19.42	19.69
		8	0	19.60	19.41	19.50
		8	3	19.83	19.36	19.60
		8	7	19.65	19.76	19.67
		15	0	19.68	19.71	19.39

LTE Band 2						
BW	MCS Index	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	22.72	22.63	22.67
		1	12	22.98	22.38	22.54
		1	24	22.53	22.65	22.63
		12	0	22.22	22.56	21.96
		12	6	22.04	22.10	22.47
		12	13	21.87	22.42	22.58
		25	0	22.18	22.58	22.36
	16QAM	1	0	21.75	21.84	21.75
		1	12	21.72	21.78	21.88
		1	24	21.82	21.52	21.65
		12	0	20.98	20.88	21.21
		12	6	21.34	21.17	21.22
		12	13	21.08	20.88	21.10
		25	0	21.13	21.46	21.50
	64QAM	1	0	20.97	20.82	20.54
		1	12	20.67	20.56	20.74
		1	24	20.67	20.88	20.78
		12	0	20.37	19.93	20.44
		12	6	19.99	19.87	20.16
		12	13	20.24	20.48	20.04
		25	0	19.98	20.14	20.12
	256QAM	1	0	19.55	19.56	19.69
		1	12	19.50	19.95	19.45
		1	24	19.70	19.82	19.33
		12	0	19.85	19.66	19.68
		12	6	19.49	19.86	19.60
		12	13	19.82	19.64	19.52
		25	0	19.79	19.45	19.56

LTE Band 2						
BW	MCS Index	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	22.64	22.88	22.90
		1	24	22.85	22.57	22.42
		1	49	22.53	22.58	22.91
		25	0	22.67	22.01	22.38
		25	12	22.40	22.16	22.00
		25	25	22.25	21.84	22.49
		50	0	21.92	22.17	22.60
	16QAM	1	0	21.62	22.02	21.53
		1	24	21.71	22.04	21.70
		1	49	21.89	21.57	21.47
		25	0	20.93	21.62	21.50
		25	12	20.93	20.94	20.97
		25	25	21.22	21.50	21.11
		50	0	21.34	21.68	21.55
	64QAM	1	0	20.65	20.56	20.73
		1	24	20.88	20.79	20.67
		1	49	20.54	20.69	20.84
		25	0	20.41	20.47	20.69
		25	12	20.66	20.27	20.35
		25	25	19.87	20.08	20.64
		50	0	20.46	20.11	20.23
	256QAM	1	0	20.02	19.77	19.40
		1	24	19.28	19.57	19.82
		1	49	19.73	19.91	19.58
		25	0	19.65	19.36	19.31
		25	12	20.02	19.86	19.63
		25	25	19.49	19.47	19.57
		50	0	20.05	19.66	19.47

LTE Band 2						
BW	MCS Index	Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	22.88	22.93	22.94
		1	37	22.56	22.68	22.71
		1	74	22.77	22.47	22.50
		36	0	22.54	22.01	22.41
		36	19	22.15	22.09	22.44
		36	39	22.09	21.90	21.96
		75	0	22.13	22.30	22.55
	16QAM	1	0	21.71	21.80	21.60
		1	37	21.53	21.96	21.92
		1	74	21.55	21.72	21.77
		36	0	21.19	21.14	21.06
		36	19	21.65	21.10	21.13
		36	39	20.86	21.00	20.84
		75	0	21.34	21.59	21.23
	64QAM	1	0	20.64	20.85	20.81
		1	37	20.67	20.61	20.45
		1	74	20.98	20.57	20.65
		36	0	20.02	20.38	20.59
		36	19	20.25	20.16	19.90
		36	39	20.28	20.15	20.23
		75	0	20.26	19.93	19.94
	256QAM	1	0	20.06	19.93	19.68
		1	37	19.37	19.86	19.79
		1	74	19.79	19.87	19.72
		36	0	19.65	19.46	19.41
		36	19	19.45	19.61	19.63
		36	39	19.57	19.53	19.69
		75	0	19.65	19.96	19.30

LTE Band 2						
BW	MCS Index	Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	22.77	22.70	22.76
		1	50	22.94	22.76	22.79
		1	99	22.83	22.58	22.65
		50	0	22.12	22.63	21.94
		50	25	22.09	22.25	22.64
		50	50	22.49	22.48	22.01
		100	0	22.55	22.48	22.41
	16QAM	1	0	21.80	21.79	21.94
		1	50	21.93	21.78	21.71
		1	99	21.62	21.57	21.72
		50	0	21.44	21.12	20.87
		50	25	21.02	20.94	21.55
		50	50	21.67	21.35	21.27
		100	0	21.15	21.62	21.72
	64QAM	1	0	20.72	20.80	20.65
		1	50	20.95	20.57	20.93
		1	99	20.68	20.63	20.42
		50	0	20.36	20.74	20.29
		50	25	20.08	20.31	20.36
		50	50	20.45	19.95	20.35
		100	0	20.54	20.27	20.26
	256QAM	1	0	19.76	19.40	19.44
		1	50	19.56	19.63	19.66
		1	99	19.59	19.79	19.50
		50	0	20.04	19.49	19.34
		50	25	19.85	19.85	19.47
		50	50	19.95	19.74	19.50
		100	0	19.27	19.96	19.69

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	22.68	22.75	22.56
		1	2	22.86	22.84	22.69
		1	5	22.56	22.88	22.92
		3	0	21.91	22.04	22.61
		3	1	22.54	22.31	22.25
		3	3	22.02	22.21	22.54
		6	0	22.07	22.71	22.39
	16QAM	1	0	21.42	21.37	21.78
		1	2	21.88	21.72	21.68
		1	5	21.72	21.57	21.68
		3	0	21.20	21.20	21.23
		3	1	21.02	21.08	21.02
		3	3	21.16	20.99	21.62
		6	0	21.14	21.43	21.50
	64QAM	1	0	20.76	20.69	20.74
		1	2	20.77	20.65	20.95
		1	5	20.89	20.69	20.48
		3	0	20.41	20.45	20.68
		3	1	20.31	20.10	20.09
		3	3	20.19	20.29	20.18
		6	0	19.88	20.50	20.41
	256QAM	1	0	19.64	19.76	20.12
		1	2	19.95	19.62	19.45
		1	5	19.19	19.47	19.55
		3	0	19.99	19.38	19.58
		3	1	19.43	19.84	19.76
		3	3	19.73	19.88	19.62
		6	0	19.31	19.82	19.73

LTE Band 25						
BW	MCS Index	Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	22.76	22.80	22.66
		1	7	22.46	22.77	22.95
		1	14	23.01	23.03	22.81
		8	0	22.50	21.96	22.02
		8	3	21.99	22.07	22.54
		8	7	21.97	22.33	21.92
		15	0	22.50	22.42	22.20
	16QAM	1	0	21.74	21.71	21.49
		1	7	21.48	21.78	21.68
		1	14	21.65	21.72	21.64
		8	0	21.14	21.41	21.47
		8	3	21.03	21.38	21.03
		8	7	21.52	21.05	21.42
		15	0	21.51	21.03	21.14
	64QAM	1	0	20.94	20.58	20.97
		1	7	20.67	20.82	20.68
		1	14	20.79	20.62	20.81
		8	0	20.35	20.01	19.89
		8	3	20.65	19.79	20.35
		8	7	19.99	20.04	19.94
		15	0	20.29	19.93	20.27
	256QAM	1	0	19.30	19.40	19.87
		1	7	19.83	19.08	19.68
		1	14	19.65	19.35	19.95
		8	0	19.29	19.59	19.48
		8	3	19.49	19.38	20.10
		8	7	19.38	19.19	20.04
		15	0	20.00	19.99	19.28

LTE Band 25						
BW	MCS Index	Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	22.82	22.71	22.38
		1	12	22.58	22.64	23.03
		1	24	22.80	22.71	22.84
		12	0	22.01	22.57	21.78
		12	6	21.97	22.34	22.35
		12	13	22.50	22.09	22.19
		25	0	22.50	22.30	22.15
	16QAM	1	0	22.01	21.81	21.76
		1	12	21.60	21.66	21.65
		1	24	21.93	21.67	21.80
		12	0	20.97	21.26	21.71
		12	6	21.59	21.45	21.29
		12	13	21.21	20.95	21.14
		25	0	21.55	21.36	21.25
	64QAM	1	0	20.68	20.88	20.64
		1	12	20.71	20.73	20.68
		1	24	20.57	20.50	20.94
		12	0	20.36	20.37	20.23
		12	6	20.52	20.19	20.23
		12	13	20.19	19.99	20.25
		25	0	19.84	20.47	20.25
	256QAM	1	0	19.68	20.26	20.11
		1	12	19.73	19.91	20.01
		1	24	19.96	19.33	19.34
		12	0	19.56	20.06	19.75
		12	6	19.35	19.26	19.38
		12	13	19.37	19.58	19.75
		25	0	19.50	19.69	19.73

LTE Band 25						
BW	MCS Index	Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	22.90	22.74	22.85
		1	24	22.58	22.93	22.76
		1	49	22.64	22.68	22.49
		25	0	22.12	22.03	22.59
		25	12	22.09	22.10	22.10
		25	25	22.26	22.70	22.21
		50	0	21.86	22.00	22.10
	16QAM	1	0	21.83	21.91	21.46
		1	24	21.68	21.92	21.68
		1	49	21.42	21.68	21.67
		25	0	21.13	21.41	21.43
		25	12	21.08	21.33	20.94
		25	25	21.00	21.23	21.53
		50	0	21.24	21.31	21.43
	64QAM	1	0	20.62	20.61	20.57
		1	24	20.46	21.04	20.57
		1	49	20.87	20.84	20.82
		25	0	20.37	19.87	20.48
		25	12	20.17	20.42	20.28
		25	25	20.59	19.90	20.04
		50	0	20.35	20.45	20.42
	256QAM	1	0	19.74	20.18	19.42
		1	24	19.72	19.50	19.76
		1	49	19.77	19.57	19.56
		25	0	19.52	19.48	19.63
		25	12	20.10	19.52	20.34
		25	25	19.37	20.30	19.26
		50	0	19.77	19.49	19.57

LTE Band 25						
BW	MCS Index	Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	22.66	22.92	22.65
		1	37	22.68	22.87	22.53
		1	74	22.95	22.50	22.89
		36	0	22.22	22.26	22.50
		36	19	22.33	21.96	22.35
		36	39	22.30	22.55	21.91
		75	0	22.18	22.00	22.16
	16QAM	1	0	21.50	21.74	21.98
		1	37	21.59	21.87	21.61
		1	74	21.70	21.83	21.70
		36	0	21.53	21.22	21.43
		36	19	21.08	21.38	21.08
		36	39	21.37	20.96	21.19
		75	0	21.15	21.43	21.45
	64QAM	1	0	20.69	20.81	20.76
		1	37	20.76	20.81	20.70
		1	74	20.53	20.48	20.54
		36	0	20.42	20.30	20.14
		36	19	19.85	20.36	20.19
		36	39	20.13	20.04	20.71
		75	0	20.10	20.10	20.01
	256QAM	1	0	20.20	20.32	19.66
		1	37	19.41	19.29	20.13
		1	74	19.85	19.52	20.03
		36	0	19.57	19.43	19.39
		36	19	19.36	19.78	19.57
		36	39	19.85	20.25	19.69
		75	0	19.70	20.02	20.24

LTE Band 25						
BW	MCS Index	Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	22.54	22.71	22.78
		1	50	22.53	22.90	22.66
		1	99	22.66	23.04	22.82
		50	0	22.50	22.40	22.54
		50	25	22.08	22.04	22.64
		50	50	22.02	22.47	21.91
		100	0	21.90	22.38	22.61
	16QAM	1	0	21.63	21.76	21.67
		1	50	21.56	21.94	21.74
		1	99	21.73	21.64	21.72
		50	0	21.44	21.55	21.08
		50	25	20.96	21.58	21.21
		50	50	21.56	21.21	21.30
		100	0	21.13	21.28	21.13
	64QAM	1	0	20.98	20.83	20.97
		1	50	20.63	20.55	20.83
		1	99	20.88	20.88	20.43
		50	0	20.01	20.33	20.36
		50	25	19.96	20.49	20.16
		50	50	19.95	19.90	20.11
		100	0	20.07	19.86	20.31
	256QAM	1	0	19.95	19.38	19.70
		1	50	19.56	19.29	19.67
		1	99	19.58	19.70	19.86
		50	0	20.11	20.26	19.35
		50	25	20.14	19.32	19.73
		50	50	19.33	20.17	19.15
		100	0	19.52	19.71	19.70

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	22.78	22.43	22.80
		1	2	22.55	22.54	22.70
		1	5	22.60	22.71	22.88
		3	0	22.05	22.69	22.38
		3	1	22.22	22.48	21.99
		3	3	22.28	22.07	22.12
		6	0	21.84	22.00	22.25
	16QAM	1	0	21.73	21.83	21.42
		1	2	21.79	21.59	21.57
		1	5	21.68	21.75	21.83
		3	0	21.34	21.14	21.49
		3	1	21.62	21.11	20.97
		3	3	20.97	21.19	21.14
		6	0	21.40	21.03	21.43
	64QAM	1	0	20.82	20.63	20.93
		1	2	20.65	20.49	20.71
		1	5	20.72	21.03	20.80
		3	0	20.45	20.37	20.35
		3	1	20.50	20.53	20.39
		3	3	20.67	20.35	19.91
		6	0	20.01	20.63	20.61
	256QAM	1	0	19.89	19.22	19.49
		1	2	19.29	19.50	19.60
		1	5	19.54	19.79	19.43
		3	0	19.58	19.67	19.40
		3	1	19.31	19.40	19.64
		3	3	19.55	19.21	19.62
		6	0	19.52	19.22	19.66

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	22.69	22.96	22.69
		1	7	22.80	22.63	22.79
		1	14	22.79	22.53	22.75
		8	0	22.70	22.32	22.33
		8	3	22.15	22.09	22.05
		8	7	22.26	22.32	22.13
		15	0	22.52	22.31	22.02
	16QAM	1	0	21.63	21.76	21.76
		1	7	21.57	21.64	21.79
		1	14	21.59	21.53	21.46
		8	0	21.46	21.32	21.45
		8	3	20.89	21.59	21.09
		8	7	21.46	21.05	21.27
		15	0	21.10	21.11	21.32
	64QAM	1	0	20.83	20.67	20.66
		1	7	20.62	20.79	20.96
		1	14	20.57	20.56	20.67
		8	0	20.49	20.50	20.60
		8	3	20.53	20.28	20.09
		8	7	20.41	19.88	20.59
		15	0	20.48	20.35	20.17
	256QAM	1	0	19.97	19.75	19.63
		1	7	19.69	19.64	19.75
		1	14	19.66	19.24	19.80
		8	0	19.78	19.86	19.68
		8	3	19.36	19.38	19.78
		8	7	19.41	19.45	19.59
		15	0	19.20	19.49	19.72

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	22.62	22.78	22.82
		1	12	22.64	22.51	22.58
		1	24	22.95	22.85	22.96
		12	0	22.56	21.88	22.64
		12	6	22.44	22.24	22.11
		12	13	21.81	22.51	22.05
		25	0	21.98	22.04	22.27
	16QAM	1	0	21.47	21.82	21.54
		1	12	21.85	21.73	21.71
		1	24	21.81	21.78	21.76
		12	0	20.99	21.30	21.15
		12	6	20.97	21.17	21.03
		12	13	21.05	21.15	21.36
		25	0	21.06	21.41	21.19
	64QAM	1	0	20.52	20.48	20.74
		1	12	20.64	20.46	20.53
		1	24	20.67	20.84	20.66
		12	0	20.24	19.96	20.51
		12	6	20.38	19.93	20.42
		12	13	19.95	20.03	20.13
		25	0	20.52	19.98	20.25
	256QAM	1	0	19.92	19.31	19.86
		1	12	19.33	19.20	19.67
		1	24	19.84	19.57	19.78
		12	0	19.71	19.68	19.64
		12	6	19.27	19.30	19.36
		12	13	19.78	19.52	19.47
		25	0	19.47	19.71	19.37

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	22.85	22.69	22.59
		1	24	22.63	22.76	22.67
		1	49	22.78	22.69	22.79
		25	0	22.28	22.63	22.09
		25	12	22.34	22.32	22.54
		25	25	22.04	22.65	22.18
		50	0	22.21	22.28	22.44
	16QAM	1	0	21.61	21.65	21.48
		1	24	21.91	21.63	21.61
		1	49	21.74	21.70	21.75
		25	0	21.31	21.35	21.16
		25	12	21.07	21.12	21.45
		25	25	21.23	21.65	21.31
		50	0	21.16	21.02	21.36
	64QAM	1	0	20.57	20.67	20.87
		1	24	20.51	20.70	20.63
		1	49	20.83	20.85	20.66
		25	0	19.84	20.53	20.01
		25	12	20.11	20.36	19.87
		25	25	20.12	20.30	19.86
		50	0	20.51	20.72	20.62
	256QAM	1	0	19.41	19.88	19.47
		1	24	19.51	19.27	19.45
		1	49	19.79	19.71	19.68
		25	0	19.35	19.74	19.64
		25	12	19.75	19.22	19.27
		25	25	19.48	19.62	19.43
		50	0	19.35	19.54	19.42

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	22.94	22.52	22.81
		1	37	22.49	22.74	22.55
		1	74	22.68	22.81	22.70
		36	0	22.21	22.47	21.92
		36	19	22.58	22.24	21.96
		36	39	22.55	22.42	22.45
		75	0	22.44	22.07	22.22
	16QAM	1	0	21.83	21.61	21.72
		1	37	21.69	21.39	21.66
		1	74	21.91	21.50	21.55
		36	0	21.27	20.91	21.16
		36	19	21.01	21.69	21.50
		36	39	21.40	21.42	21.07
		75	0	21.44	20.97	21.21
	64QAM	1	0	20.98	20.70	20.79
		1	37	20.53	20.75	20.87
		1	74	20.62	20.80	20.53
		36	0	19.96	20.20	20.38
		36	19	20.31	20.40	20.62
		36	39	20.63	20.33	20.46
		75	0	20.18	20.17	20.33
	256QAM	1	0	19.23	19.73	19.63
		1	37	19.46	19.22	19.54
		1	74	19.88	19.14	19.68
		36	0	19.84	19.39	19.56
		36	19	19.79	19.41	19.40
		36	39	19.74	19.31	19.51
		75	0	19.73	19.56	19.44

LTE Band 26 (Part 90)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	22.79	22.69	22.94
		1	2	22.78	22.88	22.71
		1	5	22.91	22.99	22.88
		3	0	21.85	22.14	22.63
		3	1	22.36	22.31	22.62
		3	3	22.58	22.35	21.94
		6	0	22.34	22.46	22.38
	16QAM	1	0	21.63	21.64	21.90
		1	2	21.81	21.86	21.51
		1	5	21.90	21.92	21.76
		3	0	20.99	21.13	20.90
		3	1	21.29	21.03	21.44
		3	3	21.29	21.48	21.56
		6	0	21.70	21.31	20.85
	64QAM	1	0	20.56	20.73	20.73
		1	2	20.41	20.67	20.51
		1	5	20.75	20.91	20.62
		3	0	20.27	20.66	20.59
		3	1	20.08	20.29	20.25
		3	3	20.35	20.66	20.24
		6	0	20.27	20.34	19.96
	256QAM	1	0	19.64	19.42	19.76
		1	2	19.35	19.55	19.90
		1	5	19.63	19.50	19.51
		3	0	19.55	19.67	19.50
		3	1	19.75	19.54	19.70
		3	3	19.36	19.81	19.52
		6	0	19.60	19.37	19.46

LTE Band 26 (Part 90)						
BW	MCS Index	Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	22.86	22.78	22.70
		1	7	22.66	22.51	22.76
		1	14	22.72	22.69	22.85
		8	0	22.53	21.95	22.25
		8	3	22.39	22.43	22.30
		8	7	22.41	22.30	22.45
		15	0	22.37	22.03	22.59
	16QAM	1	0	21.70	21.65	21.75
		1	7	21.64	21.62	21.56
		1	14	21.51	21.89	21.42
		8	0	20.83	21.07	21.42
		8	3	21.52	20.90	21.43
		8	7	21.61	21.24	21.23
		15	0	21.03	21.43	21.24
	64QAM	1	0	20.50	20.59	20.49
		1	7	20.42	20.42	20.83
		1	14	20.80	20.74	20.77
		8	0	20.13	20.09	20.73
		8	3	20.20	20.30	20.09
		8	7	20.12	20.44	20.29
		15	0	20.41	20.18	20.41
	256QAM	1	0	19.54	19.58	19.66
		1	7	19.58	19.55	19.35
		1	14	19.75	19.39	19.53
		8	0	19.45	19.23	19.57
		8	3	19.71	19.45	19.67
		8	7	19.73	19.53	19.56
		15	0	19.43	19.31	19.57

LTE Band 26 (Part 90)						
BW	MCS Index	Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	22.51	22.83	22.78
		1	12	22.56	22.76	22.68
		1	24	22.62	22.53	22.69
		12	0	22.42	22.25	22.09
		12	6	22.04	22.07	21.83
		12	13	22.16	22.49	22.23
		25	0	22.48	22.05	22.10
	16QAM	1	0	21.49	21.45	21.85
		1	12	21.90	21.89	21.66
		1	24	21.69	21.82	21.55
		12	0	21.47	21.20	21.63
		12	6	21.27	21.68	21.09
		12	13	21.15	21.73	21.59
		25	0	21.10	21.55	20.82
	64QAM	1	0	20.67	20.66	21.02
		1	12	20.54	20.69	20.78
		1	24	20.93	20.91	20.79
		12	0	20.53	20.05	20.49
		12	6	19.96	20.06	20.46
		12	13	20.48	20.16	20.26
		25	0	20.45	20.57	20.08
	256QAM	1	0	19.26	19.47	19.43
		1	12	19.37	19.77	19.71
		1	24	19.43	19.93	19.42
		12	0	19.76	19.21	19.86
		12	6	19.83	19.45	19.79
		12	13	19.19	19.74	19.73
		25	0	19.60	19.63	19.64

LTE Band 26 (Part 90)				
BW	MCS Index	Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	22.49
		1	24	22.79
		1	49	22.45
		25	0	22.07
		25	12	21.89
		25	25	22.08
		50	0	21.89
	16QAM	1	0	21.49
		1	24	21.59
		1	49	21.69
		25	0	21.24
		25	12	21.38
		25	25	21.52
		50	0	21.11
	64QAM	1	0	21.03
		1	24	20.47
		1	49	20.84
		25	0	20.29
		25	12	20.40
		25	25	20.51
		50	0	20.50
	256QAM	1	0	19.65
		1	24	19.39
		1	49	19.70
		25	0	19.35
		25	12	19.34
		25	25	19.23
		50	0	19.39

LTE Band 41 (HPUE)						
BW	MCS Index	Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	24.94	25.26	24.97
		1	12	25.18	25.00	25.14
		1	24	25.26	25.10	25.19
		12	0	24.54	24.18	24.53
		12	6	24.60	24.15	24.20
		12	13	24.48	24.09	24.16
		25	0	24.34	24.53	24.71
	16QAM	1	0	24.06	24.04	24.08
		1	12	23.91	24.03	23.91
		1	24	24.14	24.21	24.01
		12	0	23.37	23.09	23.70
		12	6	23.72	23.48	23.03
		12	13	23.24	23.16	23.86
		25	0	23.23	23.45	23.81
	64QAM	1	0	23.09	23.01	23.11
		1	12	23.08	23.08	23.18
		1	24	22.95	22.91	23.03
		12	0	22.59	22.39	22.30
		12	6	22.33	22.43	22.73
		12	13	22.17	22.26	22.54
		25	0	22.09	22.63	22.38
	256QAM	1	0	21.41	21.94	21.96
		1	12	21.24	22.00	21.45
		1	24	21.91	21.58	22.07
		12	0	21.64	21.75	21.45
		12	6	21.40	21.79	21.84
		12	13	21.87	21.81	21.99
		25	0	21.81	21.64	21.55

LTE Band 41 (HPUE)						
BW	MCS Index	Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	25.12	24.99	25.20
		1	24	25.26	25.02	25.12
		1	49	25.36	24.94	25.01
		25	0	24.18	24.77	23.81
		25	12	24.48	24.46	24.76
		25	25	24.61	24.62	24.00
		50	0	24.63	24.90	24.34
	16QAM	1	0	23.95	24.05	24.13
		1	24	24.36	24.00	24.12
		1	49	24.12	24.24	24.07
		25	0	23.79	23.84	23.79
		25	12	23.14	23.17	23.55
		25	25	23.03	23.73	23.31
		50	0	22.87	23.12	23.14
	64QAM	1	0	23.25	23.02	23.03
		1	24	23.28	23.01	23.12
		1	49	22.96	23.24	22.99
		25	0	22.45	22.06	22.03
		25	12	22.66	22.34	22.45
		25	25	22.22	22.61	22.41
		50	0	22.21	22.72	22.26
	256QAM	1	0	21.03	21.82	21.73
		1	24	21.26	21.90	21.96
		1	49	21.38	21.82	21.67
		25	0	21.61	21.76	21.78
		25	12	22.10	21.91	22.04
		25	25	21.35	21.58	21.54
		50	0	21.87	21.89	21.96

LTE Band 41 (HPUE)						
BW	MCS Index	Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	25.01	25.28	25.23
		1	37	25.13	25.29	25.01
		1	74	25.04	24.95	25.08
		36	0	23.98	24.12	24.18
		36	19	24.41	24.24	24.63
		36	39	24.32	24.15	24.63
		75	0	24.37	24.31	24.71
	16QAM	1	0	23.88	23.82	23.91
		1	37	24.13	23.99	24.18
		1	74	24.33	24.00	23.92
		36	0	23.25	23.37	23.31
		36	19	23.64	23.24	23.32
		36	39	23.45	23.84	23.02
		75	0	23.27	23.78	23.93
	64QAM	1	0	23.06	23.06	23.06
		1	37	23.28	23.00	23.22
		1	74	23.16	23.00	23.14
		36	0	22.24	22.65	22.19
		36	19	22.64	22.58	21.97
		36	39	22.36	22.72	22.45
		75	0	22.57	22.83	22.21
	256QAM	1	0	22.06	21.55	22.05
		1	37	21.18	21.90	22.27
		1	74	21.18	21.78	22.20
		36	0	21.40	21.99	21.69
		36	19	21.62	22.05	21.87
		36	39	21.78	21.64	22.07
		75	0	21.54	21.69	22.04

LTE Band 41 (HPUE)						
BW	MCS Index	Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	25.29	24.92	25.24
		1	50	25.11	25.09	25.17
		1	99	25.12	25.06	25.02
		50	0	24.24	24.26	24.76
		50	25	24.44	24.25	24.77
		50	50	24.35	24.07	24.30
		100	0	24.42	24.55	24.69
	16QAM	1	0	24.09	24.19	24.07
		1	50	23.95	23.94	24.17
		1	99	24.08	24.13	24.22
		50	0	22.86	23.28	23.02
		50	25	23.92	23.39	23.18
		50	50	23.23	23.35	23.18
		100	0	23.41	23.37	23.16
	64QAM	1	0	23.04	23.24	23.21
		1	50	23.20	23.20	22.99
		1	99	22.88	22.89	23.03
		50	0	22.41	22.53	22.49
		50	25	22.68	22.03	22.56
		50	50	22.33	22.42	22.11
		100	0	21.97	22.25	22.62
	256QAM	1	0	21.73	21.95	21.99
		1	50	21.75	21.71	21.19
		1	99	21.74	22.11	21.45
		50	0	21.69	21.60	21.97
		50	25	21.31	21.43	21.44
		50	50	21.60	21.60	21.86
		100	0	21.62	21.93	21.49

LTE Band 41						
BW	MCS Index	Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	22.30	22.54	22.68
		1	12	22.59	22.49	22.63
		1	24	22.75	22.51	22.26
		12	0	21.94	21.56	22.19
		12	6	22.26	21.54	21.65
		12	13	21.93	21.26	21.86
		25	0	22.05	21.99	22.22
	16QAM	1	0	21.51	21.61	21.63
		1	12	21.52	21.45	21.33
		1	24	21.43	21.54	21.26
		12	0	20.89	20.79	21.20
		12	6	21.21	21.02	20.59
		12	13	20.73	20.49	21.06
		25	0	20.66	21.11	21.03
	64QAM	1	0	20.45	20.64	20.60
		1	12	20.32	20.42	20.65
		1	24	20.34	20.40	20.33
		12	0	20.17	19.67	19.75
		12	6	20.00	19.81	19.91
		12	13	19.64	19.87	20.02
		25	0	19.47	20.31	19.78
	256QAM	1	0	18.51	19.86	19.40
		1	12	18.47	19.43	18.78
		1	24	19.48	18.94	19.38
		12	0	19.29	19.38	19.02
		12	6	18.78	18.94	19.51
		12	13	19.12	19.34	19.32
		25	0	19.06	19.24	19.69

LTE Band 41						
BW	MCS Index	Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	22.66	22.44	22.42
		1	24	22.47	22.45	22.28
		1	49	22.51	22.71	22.74
		25	0	21.69	22.16	21.50
		25	12	22.22	21.67	22.15
		25	25	21.92	21.97	21.32
		50	0	22.15	22.21	21.90
	16QAM	1	0	21.45	21.43	21.74
		1	24	21.49	21.57	21.63
		1	49	21.35	21.39	21.46
		25	0	21.20	21.02	21.17
		25	12	20.65	20.49	21.05
		25	25	20.75	21.08	20.58
		50	0	20.63	20.39	20.42
	64QAM	1	0	20.32	20.50	20.69
		1	24	20.67	20.39	20.57
		1	49	20.46	20.55	20.39
		25	0	20.09	19.69	19.56
		25	12	19.98	19.79	19.98
		25	25	19.79	19.78	19.90
		50	0	19.53	19.92	19.69
	256QAM	1	0	18.64	19.15	19.07
		1	24	18.51	19.66	19.26
		1	49	18.95	19.49	19.21
		25	0	19.00	19.06	19.24
		25	12	19.35	19.23	19.16
		25	25	18.43	18.95	19.13
		50	0	18.91	19.02	19.44

LTE Band 41						
BW	MCS Index	Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	22.44	22.57	22.63
		1	37	22.40	22.52	22.41
		1	74	22.53	22.43	22.31
		36	0	21.30	21.62	21.51
		36	19	22.03	21.92	21.89
		36	39	21.46	21.69	22.20
		75	0	21.92	21.79	22.23
	16QAM	1	0	21.41	21.63	21.35
		1	37	21.52	21.57	21.30
		1	74	21.55	21.43	21.36
		36	0	20.53	20.72	20.81
		36	19	21.20	20.37	20.74
		36	39	21.14	21.16	20.41
		75	0	20.67	21.30	21.33
	64QAM	1	0	20.60	20.43	20.66
		1	37	20.52	20.49	20.36
		1	74	20.49	20.53	20.32
		36	0	19.59	20.11	19.50
		36	19	19.92	19.83	19.29
		36	39	19.99	19.83	19.95
		75	0	19.94	20.22	19.69
	256QAM	1	0	19.51	19.10	19.22
		1	37	18.47	19.11	19.79
		1	74	18.43	19.13	19.58
		36	0	18.96	19.41	19.20
		36	19	18.99	19.44	19.40
		36	39	19.46	18.92	19.20
		75	0	19.02	19.08	19.54

LTE Band 41						
BW	MCS Index	Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	22.47	22.44	22.77
		1	50	22.54	22.34	22.66
		1	99	22.39	22.49	22.41
		50	0	21.87	21.85	22.01
		50	25	21.74	21.40	22.22
		50	50	21.96	21.67	21.68
		100	0	21.85	21.99	21.94
	16QAM	1	0	21.31	21.50	21.66
		1	50	21.64	21.48	21.39
		1	99	21.38	21.51	21.35
		50	0	20.35	20.78	20.59
		50	25	21.33	20.51	20.34
		50	50	20.59	20.78	20.32
		100	0	20.89	20.94	20.76
	64QAM	1	0	20.31	20.52	20.55
		1	50	20.57	20.43	20.41
		1	99	20.54	20.65	20.75
		50	0	19.57	20.18	19.91
		50	25	20.23	19.51	20.02
		50	50	19.96	19.89	19.69
		100	0	19.64	19.64	20.06
	256QAM	1	0	18.99	19.32	19.59
		1	50	19.24	19.14	18.56
		1	99	19.17	19.38	18.88
		50	0	18.87	19.15	19.39
		50	25	18.72	18.98	18.80
		50	50	18.84	19.04	19.33
		100	0	19.09	19.36	19.06

LTE Band 66						
BW	MCS Index	Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	22.94	22.79	22.82
		1	2	22.81	22.76	22.89
		1	5	22.36	22.66	22.59
		3	0	22.13	22.45	22.23
		3	1	22.07	22.25	21.84
		3	3	21.84	22.32	22.30
		6	0	22.12	22.09	21.84
	16QAM	1	0	21.92	21.58	21.52
		1	2	21.57	21.57	21.82
		1	5	21.97	21.70	21.81
		3	0	21.28	21.25	21.38
		3	1	21.23	21.42	21.17
		3	3	21.48	21.13	21.17
		6	0	21.13	21.70	21.18
	64QAM	1	0	20.39	20.62	20.74
		1	2	20.98	20.76	20.42
		1	5	20.56	20.65	20.39
		3	0	19.81	20.21	20.21
		3	1	20.51	20.05	19.78
		3	3	20.14	19.84	20.11
		6	0	20.06	20.09	20.48
	256QAM	1	0	19.94	19.87	19.63
		1	2	19.30	19.45	19.45
		1	5	19.46	19.29	19.66
		3	0	19.37	19.01	19.81
		3	1	19.45	19.24	19.67
		3	3	19.58	19.69	19.44
		6	0	19.48	19.50	19.30

LTE Band 66						
BW	MCS Index	Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	22.66	22.72	22.60
		1	7	22.47	22.43	22.65
		1	14	22.92	22.53	22.49
		8	0	22.30	22.08	22.19
		8	3	21.87	22.03	22.04
		8	7	22.33	22.61	22.27
		15	0	22.46	22.00	21.92
	16QAM	1	0	21.59	21.69	21.67
		1	7	21.61	21.78	21.36
		1	14	21.46	21.46	21.38
		8	0	21.44	21.20	21.21
		8	3	21.26	21.10	20.92
		8	7	21.16	21.59	21.06
		15	0	20.90	21.46	20.90
	64QAM	1	0	20.46	20.48	20.53
		1	7	20.58	20.57	20.32
		1	14	20.34	20.46	20.62
		8	0	19.98	20.13	20.16
		8	3	19.82	19.95	19.80
		8	7	19.93	20.57	20.37
		15	0	19.88	20.16	19.79
	256QAM	1	0	19.31	19.79	19.47
		1	7	19.54	19.09	19.46
		1	14	19.63	19.41	19.55
		8	0	19.34	19.03	19.19
		8	3	19.36	19.30	19.35
		8	7	19.49	19.24	19.57
		15	0	18.98	19.12	19.71

LTE Band 66						
BW	MCS Index	Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	22.40	22.63	22.87
		1	12	22.84	22.53	22.85
		1	24	22.65	22.28	22.62
		12	0	22.04	22.03	22.23
		12	6	21.99	22.58	22.39
		12	13	22.14	22.12	21.79
		25	0	22.12	22.33	22.28
	16QAM	1	0	21.64	21.64	21.51
		1	12	21.41	21.89	21.71
		1	24	21.51	21.50	21.56
		12	0	21.53	21.05	20.86
		12	6	21.31	21.36	21.28
		12	13	21.01	21.14	21.34
		25	0	21.17	21.45	21.10
	64QAM	1	0	20.56	20.98	20.69
		1	12	20.67	20.53	20.58
		1	24	20.79	20.67	20.39
		12	0	19.91	20.10	20.13
		12	6	20.20	20.20	19.93
		12	13	19.88	19.94	19.98
		25	0	20.34	20.02	20.43
	256QAM	1	0	19.67	19.67	19.28
		1	12	19.71	19.53	19.50
		1	24	19.07	19.24	19.76
		12	0	19.76	19.34	19.38
		12	6	19.34	19.14	19.22
		12	13	19.81	19.56	19.57
		25	0	19.16	19.14	19.59

LTE Band 66						
BW	MCS Index	Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	22.80	22.89	22.90
		1	24	22.81	22.77	22.66
		1	49	22.38	22.37	22.70
		25	0	22.12	22.52	21.88
		25	12	22.29	22.01	22.47
		25	25	21.79	21.72	22.15
		50	0	22.35	22.47	21.88
	16QAM	1	0	21.57	21.58	21.51
		1	24	21.81	21.90	21.54
		1	49	21.93	21.73	21.70
		25	0	21.21	21.33	21.68
		25	12	21.26	21.20	21.46
		25	25	21.05	21.09	21.55
		50	0	20.92	21.33	20.74
	64QAM	1	0	20.36	20.68	20.84
		1	24	20.69	20.46	20.74
		1	49	20.88	20.40	20.50
		25	0	19.69	20.58	19.86
		25	12	20.43	20.27	19.87
		25	25	19.87	19.96	20.02
		50	0	20.02	19.84	20.41
	256QAM	1	0	19.88	19.75	19.95
		1	24	19.59	19.35	19.77
		1	49	19.74	19.72	19.81
		25	0	19.72	19.44	19.44
		25	12	19.76	19.46	19.70
		25	25	19.15	19.41	19.76
		50	0	19.49	19.58	19.52

LTE Band 66						
BW	MCS Index	Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	22.45	22.49	22.49
		1	37	22.62	22.64	22.72
		1	74	22.61	22.98	22.74
		36	0	22.21	22.24	22.38
		36	19	21.97	22.07	22.07
		36	39	21.80	22.12	21.92
		75	0	22.25	21.96	21.88
	16QAM	1	0	21.85	21.72	21.91
		1	37	21.67	21.80	21.75
		1	74	21.60	21.59	21.47
		36	0	21.34	21.15	21.34
		36	19	21.14	21.21	21.02
		36	39	20.79	21.22	21.34
		75	0	21.30	21.35	21.06
	64QAM	1	0	20.37	20.97	20.53
		1	37	20.75	20.50	20.58
		1	74	20.64	20.63	20.57
		36	0	20.33	20.17	20.18
		36	19	20.25	19.99	20.37
		36	39	20.32	20.18	20.39
		75	0	20.34	20.24	20.21
	256QAM	1	0	19.58	19.38	19.99
		1	37	19.21	19.51	19.44
		1	74	19.56	19.14	19.97
		36	0	19.14	19.75	19.82
		36	19	19.95	19.33	19.45
		36	39	19.44	19.10	19.62
		75	0	19.29	19.34	19.80

LTE Band 66						
BW	MCS Index	Channel		132072	132322	132575
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	22.61	22.47	22.69
		1	50	22.74	22.64	22.59
		1	99	22.32	22.58	22.38
		50	0	21.81	21.87	22.11
		50	25	22.59	22.02	22.13
		50	50	21.99	22.33	22.47
		100	0	21.87	21.80	21.76
	16QAM	1	0	21.41	21.80	21.66
		1	50	21.42	21.62	21.78
		1	99	21.85	21.65	21.48
		50	0	21.52	21.38	21.48
		50	25	21.31	21.18	21.44
		50	50	21.36	21.08	20.95
		100	0	21.49	21.09	21.34
	64QAM	1	0	20.42	20.56	20.86
		1	50	20.77	20.48	20.71
		1	99	20.40	20.66	20.53
		50	0	20.27	20.18	20.18
		50	25	20.25	20.01	20.42
		50	50	19.98	20.12	19.81
		100	0	19.83	20.29	20.08
	256QAM	1	0	19.76	19.37	19.47
		1	50	19.60	19.34	19.61
		1	99	19.46	19.42	19.73
		50	0	19.17	19.04	19.65
		50	25	19.51	19.75	19.55
		50	50	19.49	19.19	19.63
		100	0	19.69	19.36	19.45

EIRP Power (dBm)

n41 (HPUE)						
BW	MCS Index	Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	$\pi/2$ BPSK	1	0	30.56	30.65	30.63
		1	25	30.84	30.55	30.84
		1	50	30.91	30.61	30.67
		25	0	30.16	30.57	30.38
		25	12	30.46	30.50	30.40
		25	25	30.16	30.02	30.37
		51	0	30.74	30.44	30.60
	QPSK	1	0	30.74	30.57	30.60
		1	25	30.75	30.57	30.57
		1	50	30.75	30.89	30.56
		25	0	30.65	30.38	30.52
		25	12	30.55	30.47	30.57
		25	25	30.46	30.50	30.56
		51	0	30.47	30.67	30.43
	16QAM	1	0	30.47	30.38	30.29
		1	25	30.33	30.57	30.33
		1	50	30.52	30.10	30.40
		25	0	30.23	30.45	29.88
		25	12	30.06	29.91	29.79
		25	25	30.25	29.78	29.86
		51	0	29.85	30.15	30.29
	64QAM	1	0	29.80	29.98	30.07
		1	25	30.01	29.78	30.13
		1	50	30.07	30.11	30.25
		25	0	29.79	29.85	30.00
		25	12	29.45	29.59	29.83
		25	25	29.41	29.97	29.67
		51	0	29.74	29.54	29.78
	256QAM	1	0	27.54	27.35	27.42
		1	25	27.80	27.80	27.80
1		50	27.63	27.62	27.75	
25		0	27.29	27.56	27.42	
25		12	26.73	27.63	27.40	
25		25	27.48	26.97	27.33	
51		0	27.63	27.58	27.11	

*EIRP = Conducted + antenna gain (5.31dBi)

n41 (HPUE)						
BW	MCS Index	Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	$\pi/2$ BPSK	1	0	30.63	30.56	30.72
		1	53	30.78	30.73	30.60
		1	105	30.53	30.78	30.70
		53	0	30.12	30.56	30.51
		53	26	30.48	30.23	30.23
		53	53	30.53	30.22	30.50
		106	0	30.42	30.49	30.10
	QPSK	1	0	30.76	30.73	30.69
		1	53	30.52	30.56	30.73
		1	105	30.68	30.77	30.68
		53	0	30.55	30.43	30.45
		53	26	30.53	30.26	30.30
		53	53	30.46	30.59	30.46
		106	0	30.48	30.37	30.52
	16QAM	1	0	30.48	30.31	30.07
		1	53	30.43	30.48	30.49
		1	105	30.35	30.54	30.63
		53	0	29.95	29.93	30.28
		53	26	29.95	30.23	30.07
		53	53	30.21	30.18	30.20
		106	0	29.97	30.18	30.01
	64QAM	1	0	30.04	30.36	30.04
		1	53	30.02	29.96	30.24
		1	105	30.22	30.12	29.77
		53	0	29.84	30.02	29.81
		53	26	29.86	29.93	29.92
		53	53	29.97	29.65	29.83
		106	0	30.00	29.63	30.03
	256QAM	1	0	27.44	27.82	27.82
		1	53	27.54	27.50	27.50
1		105	27.70	28.05	27.52	
53		0	27.08	27.54	27.54	
53		26	27.10	27.13	26.90	
53		53	27.42	27.53	27.03	
106		0	27.61	27.01	27.01	

*EIRP = Conducted + antenna gain (5.31dBi)

n41 (HPUE)						
BW	MCS Index	Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	$\pi/2$ BPSK	1	0	30.77	30.64	30.52
		1	66	30.85	30.71	30.60
		1	132	30.72	30.73	30.67
		66	0	30.77	30.40	30.23
		66	33	30.57	30.28	30.75
		66	66	30.58	30.01	30.59
		133	0	30.28	30.55	30.08
	QPSK	1	0	30.59	30.71	30.66
		1	66	30.72	30.76	30.60
		1	132	30.83	30.54	30.48
		66	0	30.45	30.57	30.62
		66	33	30.43	30.38	30.62
		66	66	30.41	30.54	30.42
		133	0	30.25	30.28	30.44
	16QAM	1	0	30.63	30.26	30.18
		1	66	30.39	30.04	30.28
		1	132	30.58	30.66	30.09
		66	0	29.93	30.30	30.06
		66	33	30.32	30.34	30.53
		66	66	30.03	30.41	29.86
		133	0	29.81	29.86	30.45
	64QAM	1	0	29.89	29.90	30.02
		1	66	30.19	29.89	29.94
		1	132	30.25	29.96	30.19
		66	0	29.76	29.47	29.68
		66	33	29.50	29.78	29.89
		66	66	29.66	30.01	29.96
		133	0	29.93	29.45	29.92
	256QAM	1	0	27.35	27.77	27.69
		1	66	27.54	27.58	27.87
1		132	27.64	28.05	27.40	
66		0	27.42	26.99	27.67	
66		33	27.50	26.99	27.07	
66		66	27.06	27.58	27.63	
133		0	27.62	27.01	27.66	

*EIRP = Conducted + antenna gain (5.31dBi)

n41 (HPUE)						
BW	MCS Index	Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	$\pi/2$ BPSK	1	0	30.76	31.04	30.73
		1	81	30.50	30.55	30.82
		1	161	30.69	30.87	30.75
		81	0	30.33	30.41	30.30
		81	40	30.50	30.37	30.61
		81	81	30.62	30.40	30.47
		162	0	30.46	30.29	30.60
	QPSK	1	0	30.74	30.59	30.60
		1	81	30.83	30.51	30.67
		1	161	30.47	30.66	30.84
		81	0	30.21	30.28	30.65
		81	40	30.58	30.39	30.43
		81	81	30.49	30.62	30.53
		162	0	30.39	30.26	30.22
	16QAM	1	0	30.56	30.35	30.44
		1	81	30.14	30.46	30.38
		1	161	30.36	30.28	30.32
		81	0	29.96	29.95	29.71
		81	40	30.20	30.14	29.95
		81	81	30.09	30.27	29.81
		162	0	29.86	30.35	29.93
	64QAM	1	0	30.28	29.95	29.89
		1	81	30.29	30.08	30.03
		1	161	29.89	30.11	29.86
		81	0	29.54	29.60	29.58
		81	40	29.68	29.33	29.72
		81	81	29.75	29.75	29.76
		162	0	29.49	29.90	29.68
	256QAM	1	0	27.83	28.03	27.44
		1	81	27.67	28.01	27.46
1		161	27.45	27.68	27.92	
81		0	26.85	27.60	27.29	
81		40	27.04	27.41	27.10	
81		81	27.56	27.13	27.52	
162		0	26.84	27.22	26.79	

*EIRP = Conducted + antenna gain (5.31dBi)

n41 (HPUE)						
BW	MCS Index	Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	$\pi/2$ BPSK	1	0	30.80	30.70	30.87
		1	108	30.68	30.68	30.96
		1	216	30.58	30.63	30.74
		108	0	30.68	30.44	30.51
		108	54	30.16	30.60	30.59
		108	108	30.53	30.31	30.39
		217	0	30.65	30.21	30.44
	QPSK	1	0	30.58	30.78	30.62
		1	108	30.81	30.72	30.65
		1	216	30.69	30.73	30.66
		108	0	30.35	30.28	30.48
		108	54	30.69	30.75	30.43
		108	108	30.59	30.48	30.45
		217	0	30.52	30.45	30.39
	16QAM	1	0	30.52	30.33	30.43
		1	108	30.07	30.43	30.47
		1	216	30.32	30.28	30.19
		108	0	30.06	29.84	30.12
		108	54	30.20	30.15	29.79
		108	108	29.75	29.92	30.47
		217	0	30.05	30.15	30.25
	64QAM	1	0	29.88	29.91	30.02
		1	108	29.97	30.35	29.70
		1	216	30.06	29.85	30.07
		108	0	29.90	29.95	29.67
		108	54	29.73	29.47	29.63
		108	108	29.53	29.83	29.66
		217	0	29.98	29.87	29.39
	256QAM	1	0	27.88	27.75	27.86
		1	108	27.83	27.44	27.68
1		216	27.44	27.94	27.77	
108		0	26.82	26.86	27.26	
108		54	27.46	27.51	26.90	
108		108	26.91	26.86	27.46	
217		0	27.10	27.61	26.93	

*EIRP = Conducted + antenna gain (5.31dBi)

n41 (HPUE)						
BW	MCS Index	Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	$\pi/2$ BPSK	1	0	30.97	30.68	30.97
		1	122	30.82	30.66	30.68
		1	244	30.68	30.69	30.68
		122	0	30.53	30.66	30.37
		122	61	30.38	30.54	30.49
		122	122	30.54	30.67	30.22
		245	0	30.47	30.38	30.62
	QPSK	1	0	30.68	30.48	30.50
		1	122	30.75	30.68	30.64
		1	244	30.59	30.61	30.60
		122	0	30.63	30.55	30.54
		122	61	30.69	30.65	30.45
		122	122	30.44	30.59	30.50
		245	0	30.44	30.38	30.45
	16QAM	1	0	30.53	30.63	30.43
		1	122	30.25	30.57	30.46
		1	244	30.23	30.63	30.63
		122	0	30.24	30.49	30.25
		122	61	29.74	29.75	29.91
		122	122	30.29	30.24	30.11
		245	0	29.89	30.39	30.20
	64QAM	1	0	30.26	30.07	29.77
		1	122	29.78	29.83	30.21
		1	244	30.00	29.91	29.87
		122	0	29.64	29.66	29.65
		122	61	29.67	29.89	29.54
		122	122	29.54	29.48	29.59
		245	0	29.64	30.02	29.68
	256QAM	1	0	27.48	27.47	27.61
		1	122	27.65	27.81	27.89
1		244	27.83	27.73	27.97	
122		0	26.92	27.05	27.45	
122		61	27.80	27.38	27.23	
122		122	26.91	27.42	27.38	
245		0	27.35	27.07	27.01	

*EIRP = Conducted + antenna gain (5.31dBi)

n41 (HPUE)						
BW	MCS Index	Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	$\pi/2$ BPSK	1	0	30.62	30.80	30.68
		1	136	30.74	30.51	30.89
		1	272	30.90	30.99	30.69
		136	0	30.38	30.71	30.51
		136	68	30.25	30.51	30.69
		136	136	30.65	30.54	30.53
		273	0	30.42	30.41	30.60
	QPSK	1	0	30.44	30.75	30.65
		1	136	30.82	30.66	30.72
		1	272	30.66	30.41	30.51
		136	0	30.73	30.60	30.50
		136	68	30.53	30.43	30.33
		136	136	30.35	30.53	30.41
		273	0	30.29	30.40	30.30
	16QAM	1	0	30.68	30.25	30.25
		1	136	30.06	30.51	30.21
		1	272	30.43	30.18	30.53
		136	0	30.06	30.26	29.97
		136	68	29.76	30.15	30.08
		136	136	30.13	29.95	29.79
		273	0	30.25	30.20	30.27
	64QAM	1	0	29.98	29.84	29.79
		1	136	30.12	30.06	30.03
		1	272	29.95	30.12	29.97
		136	0	29.70	29.47	29.45
		136	68	29.47	29.80	29.95
		136	136	29.97	29.80	29.78
		273	0	29.93	29.52	30.05
	256QAM	1	0	27.59	27.65	27.88
		1	136	27.32	27.53	27.84
1		272	27.92	27.45	27.96	
136		0	27.42	27.67	26.84	
136		68	26.97	27.32	27.32	
136		136	27.50	27.67	26.98	
273		0	27.29	27.60	27.18	

*EIRP = Conducted + antenna gain (5.31dBi)

n41						
BW	MCS Index	Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	$\pi/2$ BPSK	1	0	28.08	28.33	28.14
		1	25	28.49	28.22	28.24
		1	50	28.49	28.42	28.33
		25	0	27.62	28.31	28.01
		25	12	28.08	28.07	28.07
		25	25	28.00	27.87	28.19
		51	0	28.12	28.28	28.28
	QPSK	1	0	28.16	28.23	28.17
		1	25	28.52	28.06	28.28
		1	50	28.47	28.60	28.18
		25	0	28.13	28.19	28.33
		25	12	27.97	28.08	28.14
		25	25	28.10	28.12	28.11
		51	0	28.14	28.24	28.26
	16QAM	1	0	28.02	28.14	27.95
		1	25	27.98	28.30	27.94
		1	50	28.25	27.73	28.21
		25	0	27.70	27.88	27.55
		25	12	27.54	27.44	27.55
		25	25	28.12	27.48	27.49
		51	0	27.45	27.94	27.94
	64QAM	1	0	27.56	27.70	27.50
		1	25	27.72	27.46	27.58
		1	50	27.75	27.59	27.76
		25	0	27.32	27.43	27.78
		25	12	27.02	27.07	27.65
		25	25	27.02	27.71	27.28
		51	0	27.34	27.22	27.29
	256QAM	1	0	25.19	25.09	25.05
		1	25	25.38	25.41	25.48
1		50	25.18	25.16	25.40	
25		0	24.83	25.40	25.13	
25		12	24.63	25.15	24.87	
25		25	25.05	24.54	24.94	
51		0	25.21	25.11	24.66	

*EIRP = Conducted + antenna gain (5.31dBi)

n41						
BW	MCS Index	Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	$\pi/2$ BPSK	1	0	28.46	28.22	28.31
		1	53	28.38	28.19	28.03
		1	105	28.33	28.36	28.14
		53	0	27.70	28.24	28.11
		53	26	28.43	27.86	27.92
		53	53	28.10	27.75	27.94
		106	0	28.01	28.11	27.99
	QPSK	1	0	28.34	28.42	28.31
		1	53	28.32	28.15	28.21
		1	105	28.12	28.26	28.32
		53	0	28.24	28.16	27.99
		53	26	27.96	27.87	27.96
		53	53	27.91	28.21	28.29
		106	0	28.10	27.97	27.97
	16QAM	1	0	28.00	27.93	27.85
		1	53	27.77	28.26	28.24
		1	105	27.79	28.24	27.99
		53	0	27.47	27.58	27.79
		53	26	27.61	27.80	27.98
		53	53	27.85	27.56	27.57
		106	0	27.45	28.03	27.67
	64QAM	1	0	27.65	27.79	27.48
		1	53	27.58	27.66	27.83
		1	105	27.76	27.80	27.50
		53	0	27.27	27.57	27.43
		53	26	27.64	27.56	27.48
		53	53	27.47	27.49	27.42
		106	0	27.60	27.09	27.66
	256QAM	1	0	25.10	25.39	25.57
		1	53	25.30	25.08	25.15
1		105	25.46	25.67	25.33	
53		0	24.71	25.15	25.08	
53		26	24.79	24.66	24.72	
53		53	24.77	25.07	24.57	
106		0	25.37	24.38	24.83	

*EIRP = Conducted + antenna gain (5.31dBi)

n41						
BW	MCS Index	Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	$\pi/2$ BPSK	1	0	28.48	28.11	28.00
		1	66	28.30	28.28	28.20
		1	132	28.43	28.44	28.33
		66	0	28.36	27.88	27.92
		66	33	28.36	27.77	28.25
		66	66	28.30	27.87	27.95
		133	0	27.84	28.15	27.72
	QPSK	1	0	28.30	28.33	28.34
		1	66	28.51	28.35	28.28
		1	132	28.25	28.02	28.01
		66	0	27.86	28.04	27.92
		66	33	28.24	28.29	28.16
		66	66	28.18	28.16	27.96
		133	0	28.03	28.12	27.95
	16QAM	1	0	28.20	27.97	27.87
		1	66	28.09	27.68	27.90
		1	132	28.05	28.05	27.58
		66	0	27.54	27.81	27.79
		66	33	28.14	27.90	28.12
		66	66	27.62	27.96	27.43
		133	0	27.62	27.59	27.78
	64QAM	1	0	27.39	27.71	27.54
		1	66	27.71	27.59	27.46
		1	132	27.83	27.54	27.92
		66	0	27.54	26.93	27.16
		66	33	27.06	27.30	27.57
		66	66	27.42	27.58	27.51
		133	0	27.36	27.06	27.67
	256QAM	1	0	25.04	25.38	25.37
		1	66	24.97	24.99	25.63
1		132	25.40	25.73	24.98	
66		0	25.25	24.89	25.11	
66		33	25.11	24.55	24.70	
66		66	24.78	25.24	25.10	
133		0	25.24	24.84	25.18	

*EIRP = Conducted + antenna gain (5.31dBi)

n41						
BW	MCS Index	Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	$\pi/2$ BPSK	1	0	28.30	28.52	28.48
		1	81	28.23	28.24	28.35
		1	161	28.18	28.60	28.52
		81	0	27.95	27.89	27.94
		81	40	27.98	28.20	28.37
		81	81	28.18	28.10	28.21
		162	0	27.88	27.96	28.37
	QPSK	1	0	28.31	28.23	28.21
		1	81	28.49	28.37	28.57
		1	161	28.18	28.07	28.43
		81	0	27.93	27.84	28.25
		81	40	27.98	27.81	28.28
		81	81	27.99	28.23	28.17
		162	0	28.09	27.85	27.88
	16QAM	1	0	28.06	27.91	28.08
		1	81	27.87	28.06	27.93
		1	161	27.99	27.99	27.85
		81	0	27.52	27.44	27.59
		81	40	27.71	27.92	27.67
		81	81	27.63	27.72	27.58
		162	0	27.54	27.89	27.76
	64QAM	1	0	27.70	27.38	27.55
		1	81	27.82	27.65	27.55
		1	161	27.69	27.60	27.77
		81	0	27.07	27.28	27.05
		81	40	27.16	27.01	27.11
		81	81	27.40	27.44	27.14
		162	0	27.04	27.55	27.09
	256QAM	1	0	25.40	25.44	25.08
		1	81	25.19	25.45	25.17
1		161	25.07	25.38	25.69	
81		0	24.46	25.24	24.84	
81		40	24.83	25.09	24.55	
81		81	25.37	24.85	24.98	
162		0	24.41	25.00	24.39	

*EIRP = Conducted + antenna gain (5.31dBi)

n41						
BW	MCS Index	Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	$\pi/2$ BPSK	1	0	28.43	28.34	28.45
		1	108	28.51	28.18	28.40
		1	216	28.33	28.21	28.34
		108	0	28.41	27.99	28.32
		108	54	27.78	28.19	28.19
		108	108	28.04	27.90	27.92
		217	0	28.36	27.60	27.97
	QPSK	1	0	28.41	28.49	28.14
		1	108	28.35	28.21	28.36
		1	216	28.21	28.38	28.04
		108	0	27.89	27.93	28.22
		108	54	28.16	28.14	27.76
		108	108	28.09	28.17	27.98
		217	0	28.17	28.01	28.22
	16QAM	1	0	28.09	28.05	28.00
		1	108	27.93	28.31	27.93
		1	216	27.81	27.86	27.77
		108	0	27.60	27.61	27.46
		108	54	27.89	27.82	27.50
		108	108	27.50	27.66	27.91
		217	0	27.62	27.72	27.80
	64QAM	1	0	27.46	27.61	27.71
		1	108	27.49	27.68	27.53
		1	216	27.89	27.67	27.81
		108	0	27.61	27.56	27.17
		108	54	27.30	27.17	27.18
		108	108	27.15	27.60	27.10
		217	0	27.63	27.72	27.13
	256QAM	1	0	25.33	25.27	25.63
		1	108	25.33	25.11	25.44
1		216	25.00	25.58	25.52	
108		0	24.40	24.62	24.99	
108		54	25.24	25.22	24.62	
108		108	24.54	24.55	24.91	
217		0	24.71	25.25	24.64	

*EIRP = Conducted + antenna gain (5.31dBi)

n41						
BW	MCS Index	Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	$\pi/2$ BPSK	1	0	28.54	28.48	28.69
		1	122	28.47	28.00	28.27
		1	244	28.36	28.34	28.28
		122	0	28.10	28.17	27.95
		122	61	27.93	28.21	27.83
		122	122	27.86	28.15	28.02
		245	0	28.15	28.05	28.35
	QPSK	1	0	28.23	28.13	28.30
		1	122	28.29	28.08	28.22
		1	244	28.06	28.05	28.29
		122	0	28.18	28.17	27.99
		122	61	28.28	28.18	28.23
		122	122	28.24	28.32	28.05
		245	0	28.10	27.95	28.16
	16QAM	1	0	28.17	28.16	28.17
		1	122	27.97	28.37	28.26
		1	244	27.76	28.29	28.24
		122	0	27.72	27.96	27.83
		122	61	27.51	27.56	27.42
		122	122	27.83	28.00	27.93
		245	0	27.45	27.82	27.82
	64QAM	1	0	27.82	27.65	27.52
		1	122	27.43	27.64	27.95
		1	244	27.51	27.57	27.76
		122	0	27.30	27.31	27.17
		122	61	27.30	27.49	27.07
		122	122	27.27	27.07	27.22
		245	0	27.31	27.67	27.13
	256QAM	1	0	25.15	25.21	25.26
		1	122	25.19	25.36	25.56
1		244	25.30	25.51	25.60	
122		0	24.57	24.58	24.89	
122		61	25.27	25.05	25.01	
122		122	24.64	24.88	25.20	
245		0	25.05	24.68	24.88	

*EIRP = Conducted + antenna gain (5.31dBi)

n41						
BW	MCS Index	Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	$\pi/2$ BPSK	1	0	28.30	28.53	28.08
		1	136	28.26	28.35	28.49
		1	272	28.34	28.56	28.28
		136	0	28.00	28.27	28.18
		136	68	28.04	28.24	28.30
		136	136	28.19	28.34	28.00
		273	0	27.79	28.06	28.21
	QPSK	1	0	28.17	28.37	28.28
		1	136	28.52	28.26	28.28
		1	272	28.44	28.28	28.16
		136	0	28.13	27.95	28.10
		136	68	28.15	27.91	28.01
		136	136	27.96	27.94	28.00
		273	0	28.18	28.19	27.87
	16QAM	1	0	28.27	27.95	27.92
		1	136	27.79	28.15	27.79
		1	272	28.04	27.84	28.24
		136	0	27.59	28.12	27.53
		136	68	27.39	27.92	28.02
		136	136	27.70	27.42	27.64
		273	0	27.87	27.74	27.79
	64QAM	1	0	27.44	27.58	27.50
		1	136	27.73	27.61	27.70
		1	272	27.80	27.73	27.49
		136	0	27.16	27.03	27.02
		136	68	27.15	27.55	27.61
		136	136	27.37	27.16	27.32
		273	0	27.36	27.12	27.50
	256QAM	1	0	25.19	25.22	25.59
		1	136	25.17	25.28	25.43
1		272	25.61	25.22	25.54	
136		0	25.07	25.22	24.46	
136		68	24.65	25.04	24.78	
136		136	25.01	25.08	24.68	
273		0	24.88	25.39	24.87	

*EIRP = Conducted + antenna gain (5.31dBi)

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	26.76	26.97	26.83
		1	2	26.81	26.96	26.91
		1	5	26.95	27.09	27.18
		3	0	26.54	26.35	26.54
		3	1	26.14	26.84	26.10
		3	3	26.66	26.59	26.17
		6	0	26.66	26.25	26.81
	16QAM	1	0	25.93	26.16	26.05
		1	2	26.10	26.04	25.93
		1	5	25.92	26.16	25.86
		3	0	25.48	25.94	25.38
		3	1	25.32	25.43	25.80
		3	3	25.85	25.35	25.44
		6	0	25.61	25.61	25.75
	64QAM	1	0	25.09	25.08	24.90
		1	2	25.06	24.97	25.08
		1	5	24.82	25.15	24.70
		3	0	24.68	24.19	24.62
		3	1	24.21	24.47	24.93
		3	3	24.49	24.76	24.65
		6	0	24.64	24.43	24.68
	256QAM	1	0	24.22	24.08	23.80
		1	2	23.84	23.78	23.68
		1	5	24.05	24.11	23.83
		3	0	23.96	23.75	23.96
		3	1	24.15	24.12	24.02
		3	3	23.72	24.21	23.76
		6	0	23.66	24.16	24.07

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 2						
BW	MCS Index	Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	27.03	26.88	26.99
		1	7	26.92	26.98	26.75
		1	14	26.86	26.71	26.82
		8	0	26.57	26.48	26.34
		8	3	26.38	26.67	26.44
		8	7	26.50	26.52	26.33
		15	0	26.92	26.65	26.20
	16QAM	1	0	25.99	25.87	25.96
		1	7	25.95	25.71	26.14
		1	14	25.96	25.89	25.83
		8	0	25.38	25.72	25.55
		8	3	25.62	25.54	25.16
		8	7	25.47	25.20	25.97
		15	0	25.19	25.65	25.73
	64QAM	1	0	25.08	25.05	25.02
		1	7	25.03	25.17	24.97
		1	14	25.01	24.72	25.15
		8	0	24.28	24.75	24.58
		8	3	24.65	24.11	24.25
		8	7	24.88	24.41	24.73
		15	0	24.41	24.29	24.30
	256QAM	1	0	23.56	23.92	23.65
		1	7	24.14	23.98	23.54
		1	14	24.23	23.69	23.96
		8	0	23.87	23.68	23.77
		8	3	24.10	23.63	23.87
		8	7	23.92	24.03	23.94
		15	0	23.95	23.98	23.66

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 2						
BW	MCS Index	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	26.99	26.90	26.94
		1	12	27.25	26.65	26.81
		1	24	26.80	26.92	26.90
		12	0	26.49	26.83	26.23
		12	6	26.31	26.37	26.74
		12	13	26.14	26.69	26.85
		25	0	26.45	26.85	26.63
	16QAM	1	0	26.02	26.11	26.02
		1	12	25.99	26.05	26.15
		1	24	26.09	25.79	25.92
		12	0	25.25	25.15	25.48
		12	6	25.61	25.44	25.49
		12	13	25.35	25.15	25.37
		25	0	25.40	25.73	25.77
	64QAM	1	0	25.24	25.09	24.81
		1	12	24.94	24.83	25.01
		1	24	24.94	25.15	25.05
		12	0	24.64	24.20	24.71
		12	6	24.26	24.14	24.43
		12	13	24.51	24.75	24.31
		25	0	24.25	24.41	24.39
	256QAM	1	0	23.82	23.83	23.96
		1	12	23.77	24.22	23.72
		1	24	23.97	24.09	23.60
		12	0	24.12	23.93	23.95
		12	6	23.76	24.13	23.87
		12	13	24.09	23.91	23.79
		25	0	24.06	23.72	23.83

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 2						
BW	MCS Index	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	26.91	27.15	27.17
		1	24	27.12	26.84	26.69
		1	49	26.80	26.85	27.18
		25	0	26.94	26.28	26.65
		25	12	26.67	26.43	26.27
		25	25	26.52	26.11	26.76
		50	0	26.19	26.44	26.87
	16QAM	1	0	25.89	26.29	25.80
		1	24	25.98	26.31	25.97
		1	49	26.16	25.84	25.74
		25	0	25.20	25.89	25.77
		25	12	25.20	25.21	25.24
		25	25	25.49	25.77	25.38
		50	0	25.61	25.95	25.82
	64QAM	1	0	24.92	24.83	25.00
		1	24	25.15	25.06	24.94
		1	49	24.81	24.96	25.11
		25	0	24.68	24.74	24.96
		25	12	24.93	24.54	24.62
		25	25	24.14	24.35	24.91
		50	0	24.73	24.38	24.50
	256QAM	1	0	24.29	24.04	23.67
		1	24	23.55	23.84	24.09
		1	49	24.00	24.18	23.85
		25	0	23.92	23.63	23.58
		25	12	24.29	24.13	23.90
		25	25	23.76	23.74	23.84
		50	0	24.32	23.93	23.74

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 2						
BW	MCS Index	Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	27.15	27.20	27.21
		1	37	26.83	26.95	26.98
		1	74	27.04	26.74	26.77
		36	0	26.81	26.28	26.68
		36	19	26.42	26.36	26.71
		36	39	26.36	26.17	26.23
		75	0	26.40	26.57	26.82
	16QAM	1	0	25.98	26.07	25.87
		1	37	25.80	26.23	26.19
		1	74	25.82	25.99	26.04
		36	0	25.46	25.41	25.33
		36	19	25.92	25.37	25.40
		36	39	25.13	25.27	25.11
		75	0	25.61	25.86	25.50
	64QAM	1	0	24.91	25.12	25.08
		1	37	24.94	24.88	24.72
		1	74	25.25	24.84	24.92
		36	0	24.29	24.65	24.86
		36	19	24.52	24.43	24.17
		36	39	24.55	24.42	24.50
		75	0	24.53	24.20	24.21
	256QAM	1	0	24.33	24.20	23.95
		1	37	23.64	24.13	24.06
		1	74	24.06	24.14	23.99
		36	0	23.92	23.73	23.68
		36	19	23.72	23.88	23.90
		36	39	23.84	23.80	23.96
		75	0	23.92	24.23	23.57

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 2						
BW	MCS Index	Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	27.04	26.97	27.03
		1	50	27.21	27.03	27.06
		1	99	27.10	26.85	26.92
		50	0	26.39	26.90	26.21
		50	25	26.36	26.52	26.91
		50	50	26.76	26.75	26.28
		100	0	26.82	26.75	26.68
	16QAM	1	0	26.07	26.06	26.21
		1	50	26.20	26.05	25.98
		1	99	25.89	25.84	25.99
		50	0	25.71	25.39	25.14
		50	25	25.29	25.21	25.82
		50	50	25.94	25.62	25.54
		100	0	25.42	25.89	25.99
	64QAM	1	0	24.99	25.07	24.92
		1	50	25.22	24.84	25.20
		1	99	24.95	24.90	24.69
		50	0	24.63	25.01	24.56
		50	25	24.35	24.58	24.63
		50	50	24.72	24.22	24.62
		100	0	24.81	24.54	24.53
	256QAM	1	0	24.03	23.67	23.71
		1	50	23.83	23.90	23.93
		1	99	23.86	24.06	23.77
		50	0	24.31	23.76	23.61
		50	25	24.12	24.12	23.74
		50	50	24.22	24.01	23.77
		100	0	23.54	24.23	23.96

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	26.95	27.02	26.83
		1	2	27.13	27.11	26.96
		1	5	26.83	27.15	27.19
		3	0	26.18	26.31	26.88
		3	1	26.81	26.58	26.52
		3	3	26.29	26.48	26.81
		6	0	26.34	26.98	26.66
	16QAM	1	0	25.69	25.64	26.05
		1	2	26.15	25.99	25.95
		1	5	25.99	25.84	25.95
		3	0	25.47	25.47	25.50
		3	1	25.29	25.35	25.29
		3	3	25.43	25.26	25.89
		6	0	25.41	25.70	25.77
	64QAM	1	0	25.03	24.96	25.01
		1	2	25.04	24.92	25.22
		1	5	25.16	24.96	24.75
		3	0	24.68	24.72	24.95
		3	1	24.58	24.37	24.36
		3	3	24.46	24.56	24.45
		6	0	24.15	24.77	24.68
	256QAM	1	0	23.91	24.03	24.39
		1	2	24.22	23.89	23.72
		1	5	23.46	23.74	23.82
		3	0	24.26	23.65	23.85
		3	1	23.70	24.11	24.03
		3	3	24.00	24.15	23.89
		6	0	23.58	24.09	24.00

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 25						
BW	MCS Index	Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	27.03	27.07	26.93
		1	7	26.73	27.04	27.22
		1	14	27.28	27.30	27.08
		8	0	26.77	26.23	26.29
		8	3	26.26	26.34	26.81
		8	7	26.24	26.60	26.19
		15	0	26.77	26.69	26.47
	16QAM	1	0	26.01	25.98	25.76
		1	7	25.75	26.05	25.95
		1	14	25.92	25.99	25.91
		8	0	25.41	25.68	25.74
		8	3	25.30	25.65	25.30
		8	7	25.79	25.32	25.69
		15	0	25.78	25.30	25.41
	64QAM	1	0	25.21	24.85	25.24
		1	7	24.94	25.09	24.95
		1	14	25.06	24.89	25.08
		8	0	24.62	24.28	24.16
		8	3	24.92	24.06	24.62
		8	7	24.26	24.31	24.21
		15	0	24.56	24.20	24.54
	256QAM	1	0	23.57	23.67	24.14
		1	7	24.10	23.35	23.95
		1	14	23.92	23.62	24.22
		8	0	23.56	23.86	23.75
		8	3	23.76	23.65	24.37
		8	7	23.65	23.46	24.31
		15	0	24.27	24.26	23.55

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 25						
BW	MCS Index	Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	27.09	26.98	26.65
		1	12	26.85	26.91	27.30
		1	24	27.07	26.98	27.11
		12	0	26.28	26.84	26.05
		12	6	26.24	26.61	26.62
		12	13	26.77	26.36	26.46
		25	0	26.77	26.57	26.42
	16QAM	1	0	26.28	26.08	26.03
		1	12	25.87	25.93	25.92
		1	24	26.20	25.94	26.07
		12	0	25.24	25.53	25.98
		12	6	25.86	25.72	25.56
		12	13	25.48	25.22	25.41
		25	0	25.82	25.63	25.52
	64QAM	1	0	24.95	25.15	24.91
		1	12	24.98	25.00	24.95
		1	24	24.84	24.77	25.21
		12	0	24.63	24.64	24.50
		12	6	24.79	24.46	24.50
		12	13	24.46	24.26	24.52
		25	0	24.11	24.74	24.52
	256QAM	1	0	23.95	24.53	24.38
		1	12	24.00	24.18	24.28
		1	24	24.23	23.60	23.61
		12	0	23.83	24.33	24.02
		12	6	23.62	23.53	23.65
		12	13	23.64	23.85	24.02
		25	0	23.77	23.96	24.00

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 25						
BW	MCS Index	Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	27.17	27.01	27.12
		1	24	26.85	27.20	27.03
		1	49	26.91	26.95	26.76
		25	0	26.39	26.30	26.86
		25	12	26.36	26.37	26.37
		25	25	26.53	26.97	26.48
		50	0	26.13	26.27	26.37
	16QAM	1	0	26.10	26.18	25.73
		1	24	25.95	26.19	25.95
		1	49	25.69	25.95	25.94
		25	0	25.40	25.68	25.70
		25	12	25.35	25.60	25.21
		25	25	25.27	25.50	25.80
		50	0	25.51	25.58	25.70
	64QAM	1	0	24.89	24.88	24.84
		1	24	24.73	25.31	24.84
		1	49	25.14	25.11	25.09
		25	0	24.64	24.14	24.75
		25	12	24.44	24.69	24.55
		25	25	24.86	24.17	24.31
		50	0	24.62	24.72	24.69
	256QAM	1	0	24.01	24.45	23.69
		1	24	23.99	23.77	24.03
		1	49	24.04	23.84	23.83
		25	0	23.79	23.75	23.90
		25	12	24.37	23.79	24.61
		25	25	23.64	24.57	23.53
		50	0	24.04	23.76	23.84

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 25						
BW	MCS Index	Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	26.93	27.19	26.92
		1	37	26.95	27.14	26.80
		1	74	27.22	26.77	27.16
		36	0	26.49	26.53	26.77
		36	19	26.60	26.23	26.62
		36	39	26.57	26.82	26.18
		75	0	26.45	26.27	26.43
	16QAM	1	0	25.77	26.01	26.25
		1	37	25.86	26.14	25.88
		1	74	25.97	26.10	25.97
		36	0	25.80	25.49	25.70
		36	19	25.35	25.65	25.35
		36	39	25.64	25.23	25.46
		75	0	25.42	25.70	25.72
	64QAM	1	0	24.96	25.08	25.03
		1	37	25.03	25.08	24.97
		1	74	24.80	24.75	24.81
		36	0	24.69	24.57	24.41
		36	19	24.12	24.63	24.46
		36	39	24.40	24.31	24.98
		75	0	24.37	24.37	24.28
	256QAM	1	0	24.47	24.59	23.93
		1	37	23.68	23.56	24.40
		1	74	24.12	23.79	24.30
		36	0	23.84	23.70	23.66
		36	19	23.63	24.05	23.84
		36	39	24.12	24.52	23.96
		75	0	23.97	24.29	24.51

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 25						
BW	MCS Index	Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	26.81	26.98	27.05
		1	50	26.80	27.17	26.93
		1	99	26.93	27.31	27.09
		50	0	26.77	26.67	26.81
		50	25	26.35	26.31	26.91
		50	50	26.29	26.74	26.18
		100	0	26.17	26.65	26.88
	16QAM	1	0	25.90	26.03	25.94
		1	50	25.83	26.21	26.01
		1	99	26.00	25.91	25.99
		50	0	25.71	25.82	25.35
		50	25	25.23	25.85	25.48
		50	50	25.83	25.48	25.57
		100	0	25.40	25.55	25.40
	64QAM	1	0	25.25	25.10	25.24
		1	50	24.90	24.82	25.10
		1	99	25.15	25.15	24.70
		50	0	24.28	24.60	24.63
		50	25	24.23	24.76	24.43
		50	50	24.22	24.17	24.38
		100	0	24.34	24.13	24.58
	256QAM	1	0	24.22	23.65	23.97
		1	50	23.83	23.56	23.94
		1	99	23.85	23.97	24.13
		50	0	24.38	24.53	23.62
		50	25	24.41	23.59	24.00
		50	50	23.60	24.44	23.42
		100	0	23.79	23.98	23.97

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 41 (HPUE)						
BW	MCS Index	Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	30.25	30.57	30.28
		1	12	30.49	30.31	30.45
		1	24	30.57	30.41	30.50
		12	0	29.85	29.49	29.84
		12	6	29.91	29.46	29.51
		12	13	29.79	29.40	29.47
		25	0	29.65	29.84	30.02
	16QAM	1	0	29.37	29.35	29.39
		1	12	29.22	29.34	29.22
		1	24	29.45	29.52	29.32
		12	0	28.68	28.40	29.01
		12	6	29.03	28.79	28.34
		12	13	28.55	28.47	29.17
		25	0	28.54	28.76	29.12
	64QAM	1	0	28.40	28.32	28.42
		1	12	28.39	28.39	28.49
		1	24	28.26	28.22	28.34
		12	0	27.90	27.70	27.61
		12	6	27.64	27.74	28.04
		12	13	27.48	27.57	27.85
		25	0	27.40	27.94	27.69
	256QAM	1	0	26.72	27.25	27.27
		1	12	26.55	27.31	26.76
		1	24	27.22	26.89	27.38
		12	0	26.95	27.06	26.76
		12	6	26.71	27.10	27.15
		12	13	27.18	27.12	27.30
		25	0	27.12	26.95	26.86

*EIRP = Conducted + antenna gain (5.31dBi)

LTE Band 41 (HPUE)						
BW	MCS Index	Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	30.43	30.30	30.51
		1	24	30.57	30.33	30.43
		1	49	30.67	30.25	30.32
		25	0	29.49	30.08	29.12
		25	12	29.79	29.77	30.07
		25	25	29.92	29.93	29.31
		50	0	29.94	30.21	29.65
	16QAM	1	0	29.26	29.36	29.44
		1	24	29.67	29.31	29.43
		1	49	29.43	29.55	29.38
		25	0	29.10	29.15	29.10
		25	12	28.45	28.48	28.86
		25	25	28.34	29.04	28.62
		50	0	28.18	28.43	28.45
	64QAM	1	0	28.56	28.33	28.34
		1	24	28.59	28.32	28.43
		1	49	28.27	28.55	28.30
		25	0	27.76	27.37	27.34
		25	12	27.97	27.65	27.76
		25	25	27.53	27.92	27.72
		50	0	27.52	28.03	27.57
	256QAM	1	0	26.34	27.13	27.04
		1	24	26.57	27.21	27.27
		1	49	26.69	27.13	26.98
		25	0	26.92	27.07	27.09
		25	12	27.41	27.22	27.35
		25	25	26.66	26.89	26.85
		50	0	27.18	27.20	27.27

*EIRP = Conducted + antenna gain (5.31dBi)

LTE Band 41 (HPUE)						
BW	MCS Index	Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	30.32	30.59	30.54
		1	37	30.44	30.60	30.32
		1	74	30.35	30.26	30.39
		36	0	29.29	29.43	29.49
		36	19	29.72	29.55	29.94
		36	39	29.63	29.46	29.94
		75	0	29.68	29.62	30.02
	16QAM	1	0	29.19	29.13	29.22
		1	37	29.44	29.30	29.49
		1	74	29.64	29.31	29.23
		36	0	28.56	28.68	28.62
		36	19	28.95	28.55	28.63
		36	39	28.76	29.15	28.33
		75	0	28.58	29.09	29.24
	64QAM	1	0	28.37	28.37	28.37
		1	37	28.59	28.31	28.53
		1	74	28.47	28.31	28.45
		36	0	27.55	27.96	27.50
		36	19	27.95	27.89	27.28
		36	39	27.67	28.03	27.76
		75	0	27.88	28.14	27.52
	256QAM	1	0	27.37	26.86	27.36
		1	37	26.49	27.21	27.58
		1	74	26.49	27.09	27.51
		36	0	26.71	27.30	27.00
		36	19	26.93	27.36	27.18
		36	39	27.09	26.95	27.38
		75	0	26.85	27.00	27.35

*EIRP = Conducted + antenna gain (5.31dBi)

LTE Band 41 (HPUE)						
BW	MCS Index	Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	30.60	30.23	30.55
		1	50	30.42	30.40	30.48
		1	99	30.43	30.37	30.33
		50	0	29.55	29.57	30.07
		50	25	29.75	29.56	30.08
		50	50	29.66	29.38	29.61
		100	0	29.73	29.86	30.00
	16QAM	1	0	29.40	29.50	29.38
		1	50	29.26	29.25	29.48
		1	99	29.39	29.44	29.53
		50	0	28.17	28.59	28.33
		50	25	29.23	28.70	28.49
		50	50	28.54	28.66	28.49
		100	0	28.72	28.68	28.47
	64QAM	1	0	28.35	28.55	28.52
		1	50	28.51	28.51	28.30
		1	99	28.19	28.20	28.34
		50	0	27.72	27.84	27.80
		50	25	27.99	27.34	27.87
		50	50	27.64	27.73	27.42
		100	0	27.28	27.56	27.93
	256QAM	1	0	27.04	27.26	27.30
		1	50	27.06	27.02	26.50
		1	99	27.05	27.42	26.76
		50	0	27.00	26.91	27.28
		50	25	26.62	26.74	26.75
		50	50	26.91	26.91	27.17
		100	0	26.93	27.24	26.80

*EIRP = Conducted + antenna gain (5.31dBi)

LTE Band 41						
BW	MCS Index	Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	27.61	27.85	27.99
		1	12	27.90	27.80	27.94
		1	24	28.06	27.82	27.57
		12	0	27.25	26.87	27.50
		12	6	27.57	26.85	26.96
		12	13	27.24	26.57	27.17
		25	0	27.36	27.30	27.53
	16QAM	1	0	26.82	26.92	26.94
		1	12	26.83	26.76	26.64
		1	24	26.74	26.85	26.57
		12	0	26.20	26.10	26.51
		12	6	26.52	26.33	25.90
		12	13	26.04	25.80	26.37
		25	0	25.97	26.42	26.34
	64QAM	1	0	25.76	25.95	25.91
		1	12	25.63	25.73	25.96
		1	24	25.65	25.71	25.64
		12	0	25.48	24.98	25.06
		12	6	25.31	25.12	25.22
		12	13	24.95	25.18	25.33
		25	0	24.78	25.62	25.09
	256QAM	1	0	23.82	25.17	24.71
		1	12	23.78	24.74	24.09
		1	24	24.79	24.25	24.69
		12	0	24.60	24.69	24.33
		12	6	24.09	24.25	24.82
		12	13	24.43	24.65	24.63
		25	0	24.37	24.55	25.00

*EIRP = Conducted + antenna gain (5.31dBi)

LTE Band 41						
BW	MCS Index	Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	27.97	27.75	27.73
		1	24	27.78	27.76	27.59
		1	49	27.82	28.02	28.05
		25	0	27.00	27.47	26.81
		25	12	27.53	26.98	27.46
		25	25	27.23	27.28	26.63
		50	0	27.46	27.52	27.21
	16QAM	1	0	26.76	26.74	27.05
		1	24	26.80	26.88	26.94
		1	49	26.66	26.70	26.77
		25	0	26.51	26.33	26.48
		25	12	25.96	25.80	26.36
		25	25	26.06	26.39	25.89
		50	0	25.94	25.70	25.73
	64QAM	1	0	25.63	25.81	26.00
		1	24	25.98	25.70	25.88
		1	49	25.77	25.86	25.70
		25	0	25.40	25.00	24.87
		25	12	25.29	25.10	25.29
		25	25	25.10	25.09	25.21
		50	0	24.84	25.23	25.00
	256QAM	1	0	23.95	24.46	24.38
		1	24	23.82	24.97	24.57
		1	49	24.26	24.80	24.52
		25	0	24.31	24.37	24.55
		25	12	24.66	24.54	24.47
		25	25	23.74	24.26	24.44
		50	0	24.22	24.33	24.75

*EIRP = Conducted + antenna gain (5.31dBi)

LTE Band 41						
BW	MCS Index	Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	27.75	27.88	27.94
		1	37	27.71	27.83	27.72
		1	74	27.84	27.74	27.62
		36	0	26.61	26.93	26.82
		36	19	27.34	27.23	27.20
		36	39	26.77	27.00	27.51
		75	0	27.23	27.10	27.54
	16QAM	1	0	26.72	26.94	26.66
		1	37	26.83	26.88	26.61
		1	74	26.86	26.74	26.67
		36	0	25.84	26.03	26.12
		36	19	26.51	25.68	26.05
		36	39	26.45	26.47	25.72
		75	0	25.98	26.61	26.64
	64QAM	1	0	25.91	25.74	25.97
		1	37	25.83	25.80	25.67
		1	74	25.80	25.84	25.63
		36	0	24.90	25.42	24.81
		36	19	25.23	25.14	24.60
		36	39	25.30	25.14	25.26
		75	0	25.25	25.53	25.00
	256QAM	1	0	24.82	24.41	24.53
		1	37	23.78	24.42	25.10
		1	74	23.74	24.44	24.89
		36	0	24.27	24.72	24.51
		36	19	24.30	24.75	24.71
		36	39	24.77	24.23	24.51
		75	0	24.33	24.39	24.85

*EIRP = Conducted + antenna gain (5.31dBi)

LTE Band 41						
BW	MCS Index	Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	27.78	27.75	28.08
		1	50	27.85	27.65	27.97
		1	99	27.70	27.80	27.72
		50	0	27.18	27.16	27.32
		50	25	27.05	26.71	27.53
		50	50	27.27	26.98	26.99
		100	0	27.16	27.30	27.25
	16QAM	1	0	26.62	26.81	26.97
		1	50	26.95	26.79	26.70
		1	99	26.69	26.82	26.66
		50	0	25.66	26.09	25.90
		50	25	26.64	25.82	25.65
		50	50	25.90	26.09	25.63
		100	0	26.20	26.25	26.07
	64QAM	1	0	25.62	25.83	25.86
		1	50	25.88	25.74	25.72
		1	99	25.85	25.96	26.06
		50	0	24.88	25.49	25.22
		50	25	25.54	24.82	25.33
		50	50	25.27	25.20	25.00
		100	0	24.95	24.95	25.37
	256QAM	1	0	24.30	24.63	24.90
		1	50	24.55	24.45	23.87
		1	99	24.48	24.69	24.19
		50	0	24.18	24.46	24.70
		50	25	24.03	24.29	24.11
		50	50	24.15	24.35	24.64
		100	0	24.40	24.67	24.37

*EIRP = Conducted + antenna gain (5.31dBi)

LTE Band 66						
BW	MCS Index	Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	27.21	27.06	27.09
		1	2	27.08	27.03	27.16
		1	5	26.63	26.93	26.86
		3	0	26.40	26.72	26.50
		3	1	26.34	26.52	26.11
		3	3	26.11	26.59	26.57
		6	0	26.39	26.36	26.11
	16QAM	1	0	26.19	25.85	25.79
		1	2	25.84	25.84	26.09
		1	5	26.24	25.97	26.08
		3	0	25.55	25.52	25.65
		3	1	25.50	25.69	25.44
		3	3	25.75	25.40	25.44
		6	0	25.40	25.97	25.45
	64QAM	1	0	24.66	24.89	25.01
		1	2	25.25	25.03	24.69
		1	5	24.83	24.92	24.66
		3	0	24.08	24.48	24.48
		3	1	24.78	24.32	24.05
		3	3	24.41	24.11	24.38
		6	0	24.33	24.36	24.75
	256QAM	1	0	24.21	24.14	23.90
		1	2	23.57	23.72	23.72
		1	5	23.73	23.56	23.93
		3	0	23.64	23.28	24.08
		3	1	23.72	23.51	23.94
		3	3	23.85	23.96	23.71
		6	0	23.75	23.77	23.57

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 66						
BW	MCS Index	Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	26.93	26.99	26.87
		1	7	26.74	26.70	26.92
		1	14	27.19	26.80	26.76
		8	0	26.57	26.35	26.46
		8	3	26.14	26.30	26.31
		8	7	26.60	26.88	26.54
		15	0	26.73	26.27	26.19
	16QAM	1	0	25.86	25.96	25.94
		1	7	25.88	26.05	25.63
		1	14	25.73	25.73	25.65
		8	0	25.71	25.47	25.48
		8	3	25.53	25.37	25.19
		8	7	25.43	25.86	25.33
		15	0	25.17	25.73	25.17
	64QAM	1	0	24.73	24.75	24.80
		1	7	24.85	24.84	24.59
		1	14	24.61	24.73	24.89
		8	0	24.25	24.40	24.43
		8	3	24.09	24.22	24.07
		8	7	24.20	24.84	24.64
		15	0	24.15	24.43	24.06
	256QAM	1	0	23.58	24.06	23.74
		1	7	23.81	23.36	23.73
		1	14	23.90	23.68	23.82
		8	0	23.61	23.30	23.46
		8	3	23.63	23.57	23.62
		8	7	23.76	23.51	23.84
		15	0	23.25	23.39	23.98

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 66						
BW	MCS Index	Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	26.67	26.90	27.14
		1	12	27.11	26.80	27.12
		1	24	26.92	26.55	26.89
		12	0	26.31	26.30	26.50
		12	6	26.26	26.85	26.66
		12	13	26.41	26.39	26.06
		25	0	26.39	26.60	26.55
	16QAM	1	0	25.91	25.91	25.78
		1	12	25.68	26.16	25.98
		1	24	25.78	25.77	25.83
		12	0	25.80	25.32	25.13
		12	6	25.58	25.63	25.55
		12	13	25.28	25.41	25.61
		25	0	25.44	25.72	25.37
	64QAM	1	0	24.83	25.25	24.96
		1	12	24.94	24.80	24.85
		1	24	25.06	24.94	24.66
		12	0	24.18	24.37	24.40
		12	6	24.47	24.47	24.20
		12	13	24.15	24.21	24.25
		25	0	24.61	24.29	24.70
	256QAM	1	0	23.94	23.94	23.55
		1	12	23.98	23.80	23.77
		1	24	23.34	23.51	24.03
		12	0	24.03	23.61	23.65
		12	6	23.61	23.41	23.49
		12	13	24.08	23.83	23.84
		25	0	23.43	23.41	23.86

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 66						
BW	MCS Index	Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	27.07	27.16	27.17
		1	24	27.08	27.04	26.93
		1	49	26.65	26.64	26.97
		25	0	26.39	26.79	26.15
		25	12	26.56	26.28	26.74
		25	25	26.06	25.99	26.42
		50	0	26.62	26.74	26.15
	16QAM	1	0	25.84	25.85	25.78
		1	24	26.08	26.17	25.81
		1	49	26.20	26.00	25.97
		25	0	25.48	25.60	25.95
		25	12	25.53	25.47	25.73
		25	25	25.32	25.36	25.82
		50	0	25.19	25.60	25.01
	64QAM	1	0	24.63	24.95	25.11
		1	24	24.96	24.73	25.01
		1	49	25.15	24.67	24.77
		25	0	23.96	24.85	24.13
		25	12	24.70	24.54	24.14
		25	25	24.14	24.23	24.29
		50	0	24.29	24.11	24.68
	256QAM	1	0	24.15	24.02	24.22
		1	24	23.86	23.62	24.04
		1	49	24.01	23.99	24.08
		25	0	23.99	23.71	23.71
		25	12	24.03	23.73	23.97
		25	25	23.42	23.68	24.03
		50	0	23.76	23.85	23.79

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 66						
BW	MCS Index	Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	26.72	26.76	26.76
		1	37	26.89	26.91	26.99
		1	74	26.88	27.25	27.01
		36	0	26.48	26.51	26.65
		36	19	26.24	26.34	26.34
		36	39	26.07	26.39	26.19
		75	0	26.52	26.23	26.15
	16QAM	1	0	26.12	25.99	26.18
		1	37	25.94	26.07	26.02
		1	74	25.87	25.86	25.74
		36	0	25.61	25.42	25.61
		36	19	25.41	25.48	25.29
		36	39	25.06	25.49	25.61
		75	0	25.57	25.62	25.33
	64QAM	1	0	24.64	25.24	24.80
		1	37	25.02	24.77	24.85
		1	74	24.91	24.90	24.84
		36	0	24.60	24.44	24.45
		36	19	24.52	24.26	24.64
		36	39	24.59	24.45	24.66
		75	0	24.61	24.51	24.48
	256QAM	1	0	23.85	23.65	24.26
		1	37	23.48	23.78	23.71
		1	74	23.83	23.41	24.24
		36	0	23.41	24.02	24.09
		36	19	24.22	23.60	23.72
		36	39	23.71	23.37	23.89
		75	0	23.56	23.61	24.07

*EIRP = Conducted + antenna gain (4.27dBi)

LTE Band 66						
BW	MCS Index	Channel		132072	132322	132575
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	26.88	26.74	26.96
		1	50	27.01	26.91	26.86
		1	99	26.59	26.85	26.65
		50	0	26.08	26.14	26.38
		50	25	26.86	26.29	26.40
		50	50	26.26	26.60	26.74
		100	0	26.14	26.07	26.03
	16QAM	1	0	25.68	26.07	25.93
		1	50	25.69	25.89	26.05
		1	99	26.12	25.92	25.75
		50	0	25.79	25.65	25.75
		50	25	25.58	25.45	25.71
		50	50	25.63	25.35	25.22
		100	0	25.76	25.36	25.61
	64QAM	1	0	24.69	24.83	25.13
		1	50	25.04	24.75	24.98
		1	99	24.67	24.93	24.80
		50	0	24.54	24.45	24.45
		50	25	24.52	24.28	24.69
		50	50	24.25	24.39	24.08
		100	0	24.10	24.56	24.35
	256QAM	1	0	24.03	23.64	23.74
		1	50	23.87	23.61	23.88
		1	99	23.73	23.69	24.00
		50	0	23.44	23.31	23.92
		50	25	23.78	24.02	23.82
		50	50	23.76	23.46	23.90
		100	0	23.96	23.63	23.72

*EIRP = Conducted + antenna gain (4.27dBi)

ERP Power (dBm)

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	24.44	24.09	24.46
		1	2	24.21	24.20	24.36
		1	5	24.26	24.37	24.54
		3	0	23.71	24.35	24.04
		3	1	23.88	24.14	23.65
		3	3	23.94	23.73	23.78
		6	0	23.50	23.66	23.91
	16QAM	1	0	23.39	23.49	23.08
		1	2	23.45	23.25	23.23
		1	5	23.34	23.41	23.49
		3	0	23.00	22.80	23.15
		3	1	23.28	22.77	22.63
		3	3	22.63	22.85	22.80
		6	0	23.06	22.69	23.09
	64QAM	1	0	22.48	22.29	22.59
		1	2	22.31	22.15	22.37
		1	5	22.38	22.69	22.46
		3	0	22.11	22.03	22.01
		3	1	22.16	22.19	22.05
		3	3	22.33	22.01	21.57
		6	0	21.67	22.29	22.27
	256QAM	1	0	21.55	20.88	21.15
		1	2	20.95	21.16	21.26
		1	5	21.20	21.45	21.09
		3	0	21.24	21.33	21.06
		3	1	20.97	21.06	21.30
		3	3	21.21	20.87	21.28
		6	0	21.18	20.88	21.32

*ERP = Conducted + antenna gain (3.81dBi)-2.15

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	24.35	24.62	24.35
		1	7	24.46	24.29	24.45
		1	14	24.45	24.19	24.41
		8	0	24.36	23.98	23.99
		8	3	23.81	23.75	23.71
		8	7	23.92	23.98	23.79
		15	0	24.18	23.97	23.68
	16QAM	1	0	23.29	23.42	23.42
		1	7	23.23	23.30	23.45
		1	14	23.25	23.19	23.12
		8	0	23.12	22.98	23.11
		8	3	22.55	23.25	22.75
		8	7	23.12	22.71	22.93
		15	0	22.76	22.77	22.98
	64QAM	1	0	22.49	22.33	22.32
		1	7	22.28	22.45	22.62
		1	14	22.23	22.22	22.33
		8	0	22.15	22.16	22.26
		8	3	22.19	21.94	21.75
		8	7	22.07	21.54	22.25
		15	0	22.14	22.01	21.83
	256QAM	1	0	21.63	21.41	21.29
		1	7	21.35	21.30	21.41
		1	14	21.32	20.90	21.46
		8	0	21.44	21.52	21.34
		8	3	21.02	21.04	21.44
		8	7	21.07	21.11	21.25
		15	0	20.86	21.15	21.38

*ERP = Conducted + antenna gain (3.81dBi)-2.15

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	24.28	24.44	24.48
		1	12	24.30	24.17	24.24
		1	24	24.61	24.51	24.62
		12	0	24.22	23.54	24.30
		12	6	24.10	23.90	23.77
		12	13	23.47	24.17	23.71
		25	0	23.64	23.70	23.93
	16QAM	1	0	23.13	23.48	23.20
		1	12	23.51	23.39	23.37
		1	24	23.47	23.44	23.42
		12	0	22.65	22.96	22.81
		12	6	22.63	22.83	22.69
		12	13	22.71	22.81	23.02
		25	0	22.72	23.07	22.85
	64QAM	1	0	22.18	22.14	22.40
		1	12	22.30	22.12	22.19
		1	24	22.33	22.50	22.32
		12	0	21.90	21.62	22.17
		12	6	22.04	21.59	22.08
		12	13	21.61	21.69	21.79
		25	0	22.18	21.64	21.91
	256QAM	1	0	21.58	20.97	21.52
		1	12	20.99	20.86	21.33
		1	24	21.50	21.23	21.44
		12	0	21.37	21.34	21.30
		12	6	20.93	20.96	21.02
		12	13	21.44	21.18	21.13
		25	0	21.13	21.37	21.03

*ERP = Conducted + antenna gain (3.81dBi)-2.15

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	24.51	24.35	24.25
		1	24	24.29	24.42	24.33
		1	49	24.44	24.35	24.45
		25	0	23.94	24.29	23.75
		25	12	24.00	23.98	24.20
		25	25	23.70	24.31	23.84
		50	0	23.87	23.94	24.10
	16QAM	1	0	23.27	23.31	23.14
		1	24	23.57	23.29	23.27
		1	49	23.40	23.36	23.41
		25	0	22.97	23.01	22.82
		25	12	22.73	22.78	23.11
		25	25	22.89	23.31	22.97
		50	0	22.82	22.68	23.02
	64QAM	1	0	22.23	22.33	22.53
		1	24	22.17	22.36	22.29
		1	49	22.49	22.51	22.32
		25	0	21.50	22.19	21.67
		25	12	21.77	22.02	21.53
		25	25	21.78	21.96	21.52
		50	0	22.17	22.38	22.28
	256QAM	1	0	21.07	21.54	21.13
		1	24	21.17	20.93	21.11
		1	49	21.45	21.37	21.34
		25	0	21.01	21.40	21.30
		25	12	21.41	20.88	20.93
		25	25	21.14	21.28	21.09
		50	0	21.01	21.20	21.08

*ERP = Conducted + antenna gain (3.81dBi)-2.15

LTE Band 26 (Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	24.60	24.18	24.47
		1	37	24.15	24.40	24.21
		1	74	24.34	24.47	24.36
		36	0	23.87	24.13	23.58
		36	19	24.24	23.90	23.62
		36	39	24.21	24.08	24.11
		75	0	24.10	23.73	23.88
	16QAM	1	0	23.49	23.27	23.38
		1	37	23.35	23.05	23.32
		1	74	23.57	23.16	23.21
		36	0	22.93	22.57	22.82
		36	19	22.67	23.35	23.16
		36	39	23.06	23.08	22.73
		75	0	23.10	22.63	22.87
	64QAM	1	0	22.64	22.36	22.45
		1	37	22.19	22.41	22.53
		1	74	22.28	22.46	22.19
		36	0	21.62	21.86	22.04
		36	19	21.97	22.06	22.28
		36	39	22.29	21.99	22.12
		75	0	21.84	21.83	21.99
	256QAM	1	0	20.89	21.39	21.29
		1	37	21.12	20.88	21.20
		1	74	21.54	20.80	21.34
		36	0	21.50	21.05	21.22
		36	19	21.45	21.07	21.06
		36	39	21.40	20.97	21.17
		75	0	21.39	21.22	21.10

*ERP = Conducted + antenna gain (3.81dBi)-2.15

LTE Band 26 (Part 90)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	24.45	24.35	24.60
		1	2	24.44	24.54	24.37
		1	5	24.57	24.65	24.54
		3	0	23.51	23.80	24.29
		3	1	24.02	23.97	24.28
		3	3	24.24	24.01	23.60
		6	0	24.00	24.12	24.04
	16QAM	1	0	23.29	23.30	23.56
		1	2	23.47	23.52	23.17
		1	5	23.56	23.58	23.42
		3	0	22.65	22.79	22.56
		3	1	22.95	22.69	23.10
		3	3	22.95	23.14	23.22
		6	0	23.36	22.97	22.51
	64QAM	1	0	22.22	22.39	22.39
		1	2	22.07	22.33	22.17
		1	5	22.41	22.57	22.28
		3	0	21.93	22.32	22.25
		3	1	21.74	21.95	21.91
		3	3	22.01	22.32	21.90
		6	0	21.93	22.00	21.62
	256QAM	1	0	21.30	21.08	21.42
		1	2	21.01	21.21	21.56
		1	5	21.29	21.16	21.17
		3	0	21.21	21.33	21.16
		3	1	21.41	21.20	21.36
		3	3	21.02	21.47	21.18
		6	0	21.26	21.03	21.12

*ERP = Conducted + antenna gain (3.81dBi)-2.15

LTE Band 26 (Part 90)						
BW	MCS Index	Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	24.52	24.44	24.36
		1	7	24.32	24.17	24.42
		1	14	24.38	24.35	24.51
		8	0	24.19	23.61	23.91
		8	3	24.05	24.09	23.96
		8	7	24.07	23.96	24.11
		15	0	24.03	23.69	24.25
	16QAM	1	0	23.36	23.31	23.41
		1	7	23.30	23.28	23.22
		1	14	23.17	23.55	23.08
		8	0	22.49	22.73	23.08
		8	3	23.18	22.56	23.09
		8	7	23.27	22.90	22.89
		15	0	22.69	23.09	22.90
	64QAM	1	0	22.16	22.25	22.15
		1	7	22.08	22.08	22.49
		1	14	22.46	22.40	22.43
		8	0	21.79	21.75	22.39
		8	3	21.86	21.96	21.75
		8	7	21.78	22.10	21.95
		15	0	22.07	21.84	22.07
	256QAM	1	0	21.20	21.24	21.32
		1	7	21.24	21.21	21.01
		1	14	21.41	21.05	21.19
		8	0	21.11	20.89	21.23
		8	3	21.37	21.11	21.33
		8	7	21.39	21.19	21.22
		15	0	21.09	20.97	21.23

*ERP = Conducted + antenna gain (3.81dBi)-2.15

LTE Band 26 (Part 90)						
BW	MCS Index	Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	24.17	24.49	24.44
		1	12	24.22	24.42	24.34
		1	24	24.28	24.19	24.35
		12	0	24.08	23.91	23.75
		12	6	23.70	23.73	23.49
		12	13	23.82	24.15	23.89
		25	0	24.14	23.71	23.76
	16QAM	1	0	23.15	23.11	23.51
		1	12	23.56	23.55	23.32
		1	24	23.35	23.48	23.21
		12	0	23.13	22.86	23.29
		12	6	22.93	23.34	22.75
		12	13	22.81	23.39	23.25
		25	0	22.76	23.21	22.48
	64QAM	1	0	22.33	22.32	22.68
		1	12	22.20	22.35	22.44
		1	24	22.59	22.57	22.45
		12	0	22.19	21.71	22.15
		12	6	21.62	21.72	22.12
		12	13	22.14	21.82	21.92
		25	0	22.11	22.23	21.74
	256QAM	1	0	20.92	21.13	21.09
		1	12	21.03	21.43	21.37
		1	24	21.09	21.59	21.08
		12	0	21.42	20.87	21.52
		12	6	21.49	21.11	21.45
		12	13	20.85	21.40	21.39
		25	0	21.26	21.29	21.30

*ERP = Conducted + antenna gain (3.81dBi)-2.15

LTE Band 26 (Part 90)				
BW	MCS Index	Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	24.15
		1	24	24.45
		1	49	24.11
		25	0	23.73
		25	12	23.55
		25	25	23.74
		50	0	23.55
	16QAM	1	0	23.15
		1	24	23.25
		1	49	23.35
		25	0	22.90
		25	12	23.04
		25	25	23.18
		50	0	22.77
	64QAM	1	0	22.69
		1	24	22.13
		1	49	22.50
		25	0	21.95
		25	12	22.06
		25	25	22.17
		50	0	22.16
	256QAM	1	0	21.31
		1	24	21.05
		1	49	21.36
		25	0	21.01
		25	12	21.00
		25	25	20.89
		50	0	21.05

*ERP = Conducted + antenna gain (3.81dBi)-2.15

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

For n41

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm .

For LTE Band 2, LTE Band 25, LTE Band 26 (Part 22)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

For LTE Band 26 (Part 90)

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

For LTE Band 41

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm .

For LTE Band 66

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

4.2.2 Test Procedure

- a. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution antenna}$.

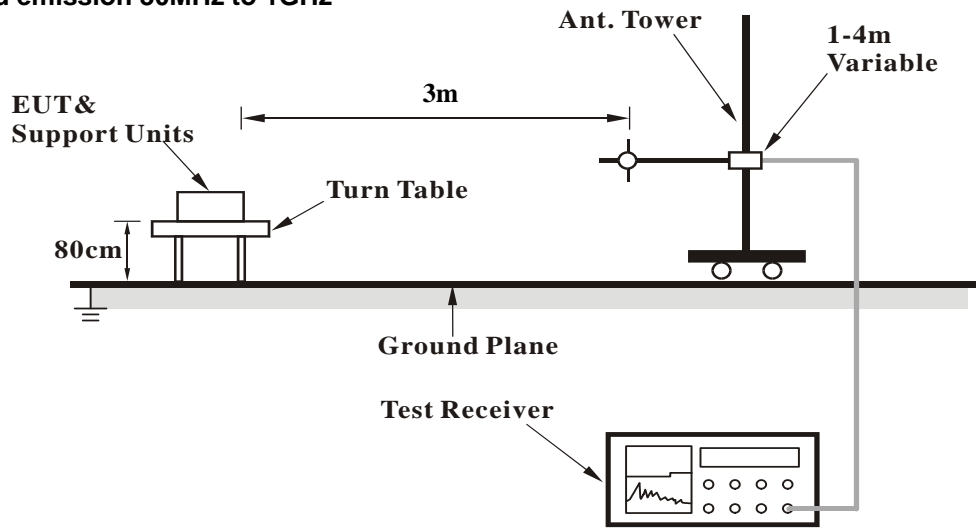
Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.2.3 Deviation from Test Standard

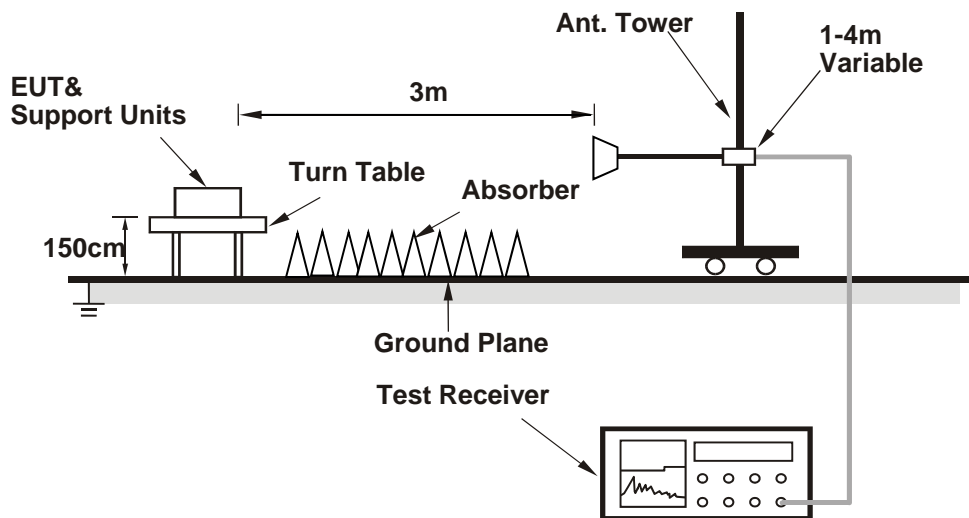
No deviation.

4.2.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



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

4.2.5 Test Results

Below 1GHz

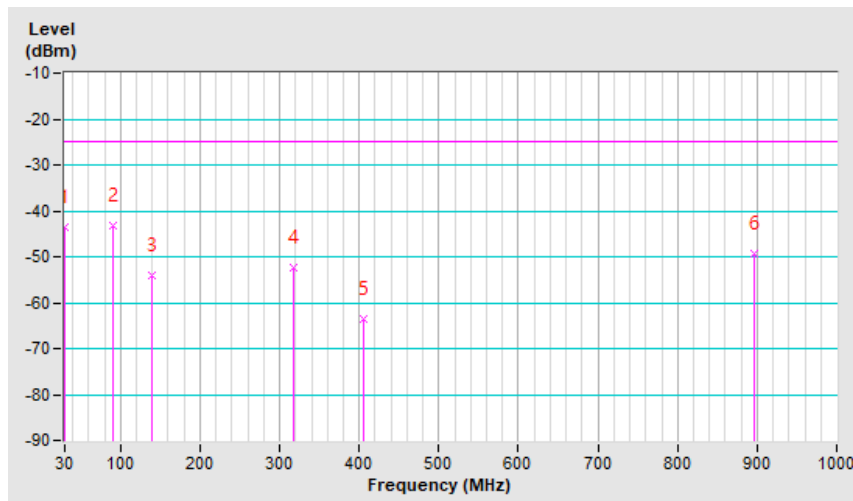
n41, Channel Bandwidth: 60MHz

Mode	TX channel 518598 (2592.99MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	30.00	-46.5	-31.3	-12.2	-43.5	-25.0	-18.5
2	90.45	-34.7	-44.3	1.1	-43.2	-25.0	-18.2
3	139.65	-48.3	-53.8	-0.3	-54.1	-25.0	-29.1
4	316.78	-48.5	-57.5	5.2	-52.3	-25.0	-27.3
5	405.35	-63.2	-68.8	5.2	-63.6	-25.0	-38.6
6	895.97	-57.3	-53.1	3.9	-49.2	-25.0	-24.2

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

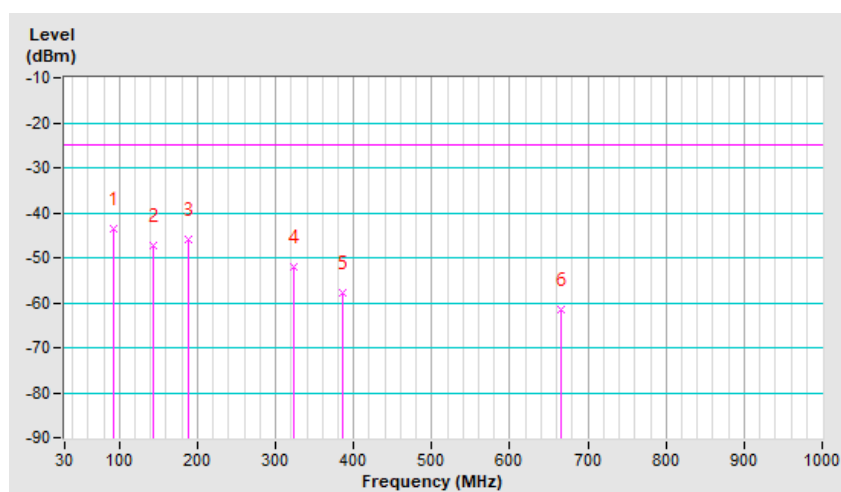


Mode	TX channel 518598 (2592.99MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	91.86	-36.9	-44.5	1.1	-43.4	-25.0	-18.4
2	143.87	-44.5	-46.9	-0.3	-47.2	-25.0	-22.2
3	187.45	-43.0	-49.9	3.9	-46.0	-25.0	-21.0
4	323.81	-52.2	-57.3	5.2	-52.1	-25.0	-27.1
5	385.67	-57.7	-62.9	5.2	-57.7	-25.0	-32.7
6	665.42	-67.7	-66.6	5.0	-61.6	-25.0	-36.6

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



LTE Band 25, Channel Bandwidth: 20MHz

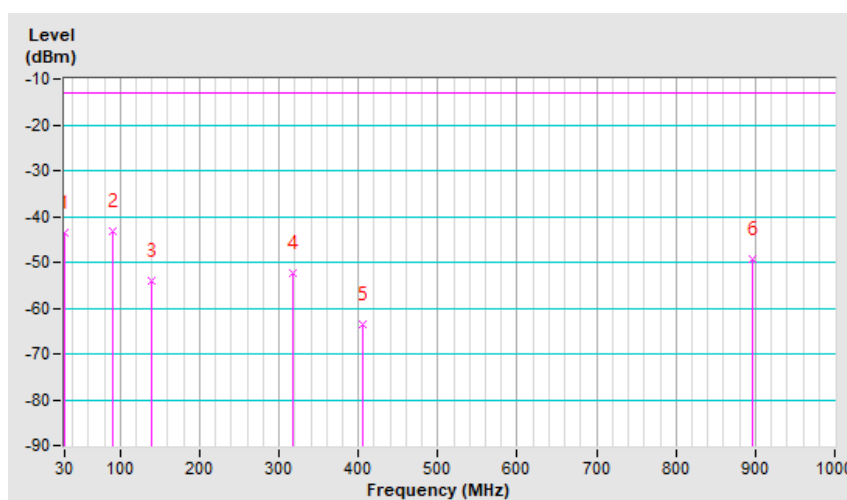
Mode	TX channel 26365 (1882.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	30.00	-46.5	-31.3	-12.2	-43.5	-13.0	-30.5
2	90.45	-34.7	-44.3	1.1	-43.2	-13.0	-30.2
3	139.65	-48.3	-53.8	-0.3	-54.1	-13.0	-41.1
4	316.78	-48.5	-57.5	5.2	-52.3	-13.0	-39.3
5	405.35	-63.2	-68.8	5.2	-63.6	-13.0	-50.6
6	895.97	-57.3	-53.1	3.9	-49.2	-13.0	-36.2

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

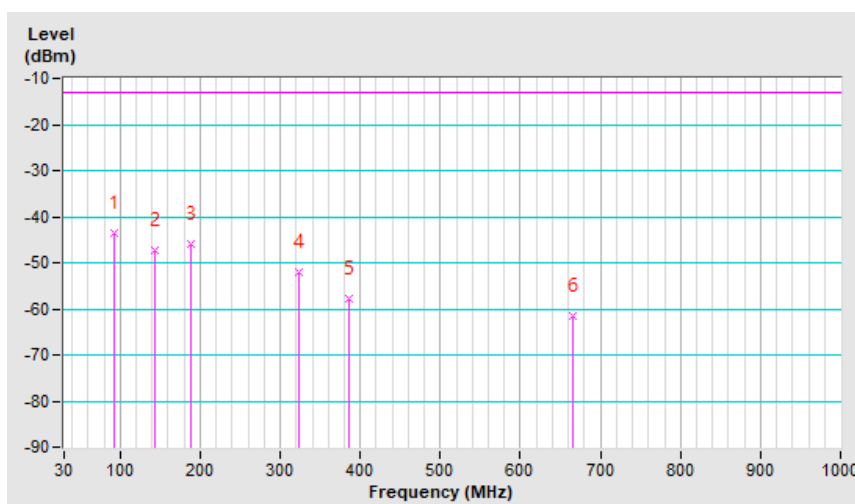


Mode	TX channel 26365 (1882.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	91.86	-36.9	-44.5	1.1	-43.4	-13.0	-30.4
2	143.87	-44.5	-46.9	-0.3	-47.2	-13.0	-34.2
3	187.45	-43.0	-49.9	3.9	-46.0	-13.0	-33.0
4	323.81	-52.2	-57.3	5.2	-52.1	-13.0	-39.1
5	385.67	-57.7	-62.9	5.2	-57.7	-13.0	-44.7
6	665.42	-67.7	-66.6	5.0	-61.6	-13.0	-48.6

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



Above 1GHz

n41, Channel Bandwidth: 60MHz

Mode	TX channel 518598 (2592.99MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	5185.98	-60.1	-48.4	1.4	-47.0	-25.0	-22.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	5185.98	-57.6	-45.4	1.4	-44.0	-25.0	-19.0

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

LTE Band 25, Channel Bandwidth 20MHz

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-59.3	-50.8	1.3	-49.5	-13.0	-36.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-57.1	-48.8	1.3	-47.5	-13.0	-34.5

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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Web Site: www.bureauveritas-adt.com

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

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