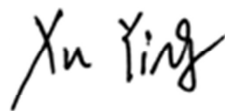


RF TEST REPORT

Applicant Dspread Technology (Beijing) Inc
FCC ID 2AGQ6-D20PRO
Product Smart POS
Model D20
Report No. EFTA25020102-IE-08-R1V1
Issue Date April 30, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 / FCC CFR 47 Part 22H / FCC CFR 47 Part 24E / FCC CFR47 Part 27C / FCC CFR 47 /FCC CFR 47 Part 90S**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	April 21, 2025
Rev.1	Updated information.	April 30, 2025
Note: This revised report (Report No.: EFTA25020102-IE-08-R1V1) supersedes and replaces the previously issued report (Report No.: EFTA25020102-IE-08-R1). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Test Case	Clause in FCC rules	Limits	Verdict
GSM 850; WCDMA Band 5; LTE Band 5/26 (824-849MHz)			
RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	≤ 7 W (38.45 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 22.917(a)	≤ -13 dBm	PASS
Peak-to-Average Power Ratio	22.913(d) KDB 971168 D01(5.7)	≤ 13 dB	PASS
Frequency Stability	2.1055 22.355(d)(1)	≤ 2.5 ppm	PASS
Spurious Emissions at Antenna Terminals	2.1051 22.917(a)	≤ -13 dBm	PASS
Radiated Spurious Emission	2.1053 22.917 (a)	≤ -13 dBm	PASS
GSM 1900; WCDMA Band 2; LTE Band 2/25			
RF Power Output and Effective Isotropic Radiated Power	2.1046 24.232(c)	≤ 2 W (33 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 24.238(a)	≤ -13 dBm	PASS
Peak-to-Average Power Ratio	24.232 (d) KDB 971168 D01(5.7)	≤ 13 dB	PASS
Frequency Stability	2.1055 24.235	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.	PASS
Spurious Emissions at Antenna Terminals	2.1051 24.238(a)	≤ -13 dBm	PASS
Radiated Spurious Emission	2.1053 24.238(a)	≤ -13 dBm	PASS
WCDMA Band 4; LTE Band 4/66			
RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(d)(4)	≤ 1 W (30 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 27.53(h)	≤ -13 dBm	PASS

Test Case	Clause in FCC rules	Limits	Verdict
Peak-to-Average Power Ratio	27.50(d)(5) KDB971168 D01(5.7)	≤ 13 dB	PASS
Frequency Stability	2.1055 27.54	Shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.	PASS
Spurious Emissions at Antenna Terminals	2.1051 27.53(h)	≤ -13 dBm	PASS
Radiated Spurious Emission	2.1053 27.53(h)	≤ -13 dBm	PASS
LTE Band 7/38/41			
RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(h)(2)	≤ 2 W (33 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 27.53(m)(4)	The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.	PASS
Peak-to-Average Power Ratio	27.50(d)(5) KDB971168 D01(5.7)	≤ 13 dB	PASS
Frequency Stability	2.1055 27.54	Shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.	PASS

RF Test Report											
Test Case	Clause in FCC rules	Limits	Verdict								
Spurious Emissions at Antenna Terminals	2.1051 27.53(m)	≤ -25 dBm	PASS								
Radiated Spurious Emission	2.1053 27.53(m)	≤ -25 dBm	PASS								
LTE Band 12/17											
RF Power Output and Effective Radiated Power	2.1046 27.50(c)(10)	≤ 3 W (34.77 dBm)	PASS								
Occupied Bandwidth	2.1049	No specific requirements	PASS								
Band Edge Compliance	2.1051 27.53(g)	≤ -13 dBm	PASS								
Peak-to-Average Power Ratio	KDB971168 D01(5.7)	≤ 13 dB	PASS								
Frequency Stability	2.1055 27.54	Shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.	PASS								
Spurious Emissions at Antenna Terminals	2.1051 27.53(g)	≤ -13 dBm	PASS								
Radiated Spurious Emission	2.1053 27.53(g)	≤ -13 dBm	PASS								
LTE Band 26 (814-824MHz)											
RF Power Output and Effective Radiated Power	2.1046 90.635(b)	≤ 100 W (50 dBm)	PASS								
Occupied Bandwidth	2.1049	No specific requirements	PASS								
Emission Masks	2.1051 90.691(a)(1)	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log ₁₀ (f/6.1) decibels or 50 + 10 Log ₁₀ (P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.	PASS								
Peak-to-Average Power Ratio	KDB 971168 D01(5.7)	≤ 13 dB	PASS								
Frequency Stability	2.1055 90.213	<table><tr><td rowspan="2">Fixed and base stations</td><td colspan="2">Mobile stations</td></tr><tr><td>Over 2 watts output power</td><td>2 watts or less output power</td></tr><tr><td>1.5</td><td>2.5</td><td>2.5</td></tr></table>	Fixed and base stations	Mobile stations		Over 2 watts output power	2 watts or less output power	1.5	2.5	2.5	PASS
Fixed and base stations	Mobile stations										
	Over 2 watts output power	2 watts or less output power									
1.5	2.5	2.5									
Spurious Emissions at Antenna Terminals	2.1051 90.691	≤ -13 dBm	PASS								
Radiated Spurious Emission	2.1053	≤ -13 dBm	PASS								

Test Case	Clause in FCC rules	Limits	Verdict
	90.691		
Date of Testing: March 3, 2025 ~ April 1, 2025			
Date of Sample Received: February 19, 2025			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
Country:	P. R. China
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Telephone:	+86-021-50791141/2/3
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Website:	https://www.eurofins.com/electrical-and-electronics
E-mail:	Kain.Xu@cpt.eurofinscn.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Dspread Technology (Beijing) Inc
Applicant address	Rm.407, B12C, #10 (Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, China,100015
Manufacturer	Dspread Technology (Beijing) Inc
Manufacturer address	Rm.407, B12C, #10 (Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, China,100015

2.2 General information

EUT Description				
Model	D20			
SN	Conducted	01243020202410240003		
	Radiated	01243020202410240001		
Hardware Version	2.0.0			
Software Version	2.1.1			
Power Supply	Battery / AC adapter			
Antenna Type	Internal Antenna			
Rated Power Supply Voltage	3.80V			
Operating Voltage	Minimum: 3.45V		Maximum: 4.35V	
Operating Temperature	Lowest: -10°C		Highest: +50°C	
Testing Temperature	Lowest: -30°C		Highest: +50°C	
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)	Gain (dBi)
	GSM 850	824 ~ 849	869 ~ 894	-4.82
	GSM 1900	1850 ~ 1910	1930 ~ 1990	-0.64
	WCDMA Band II	1850 ~ 1910	1930 ~ 1990	-0.64
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155	-0.43
	WCDMA Band V	824 ~ 849	869 ~ 894	-4.82
	LTE Band 2	1850 ~ 1910	1930 ~ 1990	-0.64
	LTE Band 4	1710 ~ 1755	2110 ~ 2155	-0.43
	LTE Band 5	824 ~ 849	869 ~ 894	-4.82
	LTE Band 7	2500 ~ 2570	2620 ~ 2690	-0.23
	LTE Band 12	699 ~ 716	729 ~ 746	-7.32
	LTE Band 17	704 ~ 716	734 ~ 746	-7.32
	LTE Band 25	1850 ~ 1915	1930 ~ 1995	-0.64
	LTE Band 26 (Part 22)	824 ~ 849	869 ~ 894	-4.82

		Report No.: EPTA25020102-IE-00-R1V1		
	LTE Band 26 (Part 90S)	814 ~ 824	859 ~ 869	-4.82
	LTE Band 38	2570 ~ 2620	2570 ~ 2620	0.04
	LTE Band 41	2535 ~ 2655	2535 ~ 2655	-0.23
Test Modulation	(GPRS)GMSK, (EGPRS) GMSK/ 8PSK; (WCDMA) BPSK, QPSK; (LTE) QPSK, 16QAM; 64QAM			
HSDPA UE Category	24			
HSUPA UE Category	7			
LTE Category	4			
Power Class	GSM 850: 4 GSM 1900: 1 WCDMA / LTE: 3			
Maximum E.I.R.P./ E.R.P.	GSM 850	24.67 dBm		
	GSM 1900	28.06 dBm		
	WCDMA Band II	21.66 dBm		
	WCDMA Band IV	22.07 dBm		
	WCDMA Band V	15.45 dBm		
	LTE Band 2	21.72 dBm		
	LTE Band 4	22.82 dBm		
	LTE Band 5	15.62 dBm		
	LTE Band 7	22.15 dBm		
	LTE Band 12	13.00 dBm		
	LTE Band 17	13.09 dBm		
	LTE Band 25	21.92 dBm		
	LTE Band 26	17.00 dBm		
	LTE Band 38	22.61 dBm		
LTE Band 41	22.94 dBm			
EUT Accessory				
Battery	Manufacturer: Guangdong Fenghua New Energy Co.,Ltd. Model: D20			
USB Cable	Manufacturer: ShenZhen FKY-QY Hardware&Electronics.,Ltd. Model: XC04W1000100			
Adapter	Manufacturer: SHENZHEN TIANYIN ELECTRONICS CO., LTD. Model: TPA-46B050100UU			
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.				

3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR 47 Part 2 (2024)

FCC CFR 47 Part 22H (2024)

FCC CFR 47 Part 24E (2024)

FCC CFR 47 Part 27C (2024)

FCC CFR 47 Part 90S (2024)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, horizontal polarization for GSM/WCDMA; Z axis, vertical polarization for LTE) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in GSM/WCDMA/LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below:

Test items	Modes/Modulation	
	GSM 850 / GSM 1900	WCDMA Band 2/4/5
RF Power Output and Effective (Isotropic) Radiated power	GPRS EGPRS	RMC HSDPA/HSUPA
Occupied Bandwidth	GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Band Edge Compliance	GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Peak-to-Average Power Ratio	GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Frequency Stability	GPRS(1Tx slot)	RMC
Spurious Emissions at Antenna Terminals	GPRS	RMC
Radiated Spurious Emission	GPRS	RMC

Test modes are chosen to be reported as the worst case configuration below for LTE Band:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM/	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 2	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 5	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 17	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 25	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE Band 26 (814-824)	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE Band 26 (824-849)	O	O	O	O	O	-	O	O	O	O	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 2	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 5	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 17	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 25	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE Band 26 (814-824)	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE Band 26 (824-849)	O	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	-	-	O	O	O	O

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM/	1	50%	100%	L	M	H
Band Edge Compliance	LTE 2	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 5	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 12	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 17	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 25	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE Band 26 (814-824)	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE Band 26 (824-849)	O	O	O	O	O	-	O	O	O	-	O	O	-	O
	LTE 38	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 41	-	-	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 2	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 5	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 17	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 25	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE Band 26 (814-824)	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE Band 26 (824-849)	O	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 2	O	O	O	O	O	O	O	-	-	-	O	O	-	O
	LTE 4	O	O	O	O	O	O	O	-	-	-	O	O	-	O
	LTE 5	O	O	O	O	-	-	O	-	-	-	O	-	O	-
	LTE 7	-	-	O	O	O	O	O	-	-	-	O	O	-	O
	LTE 12	O	O	O	O	-	-	O	-	-	-	O	O	-	O
	LTE 17	-	-	O	O	-	-	O	-	-	-	O	O	-	O
	LTE 25	O	O	O	O	O	O	O	-	-	-	O	O	-	O
	LTE Band 26 (814-824)	O	O	O	O	-	-	O	-	-	-	O	-	O	-
	LTE Band 26 (824-849)	O	O	O	O	O	-	O	-	-	-	O	-	O	-
	LTE 38	-	-	O	O	O	O	O	-	-	-	O	O	-	O
	LTE 41	-	-	O	O	O	O	O	-	-	-	O	O	-	O

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM/	1	50%	100%	L	M	H
Spurious Emissions at Antenna Terminals	LTE 2	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 5	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 12	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 17	-	-	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 25	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 26	O	O	O	O	O	-	O	-	O	-	-	O	O	O
	LTE 38	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 41	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Radiated Spurious Emission	LTE 2	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 5	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 7	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 12	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 17	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 25	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE Band 26 (814-824)	O	-	O	-	O	-	O	-	O	-	-	-	O	-
	LTE Band 26 (824-849)	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 38	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 41	-	-	O	-	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

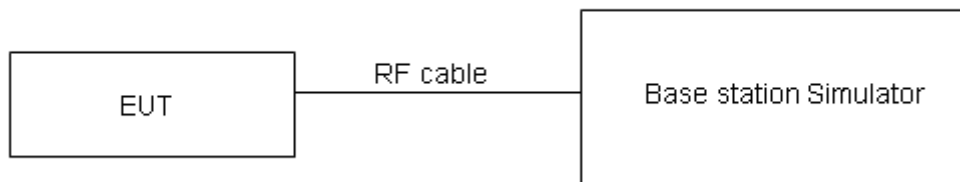
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

$EIRP \text{ (dBm)} = \text{Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB.)}$

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB for RF power output, $k = 2$, $U= 1.19$ dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

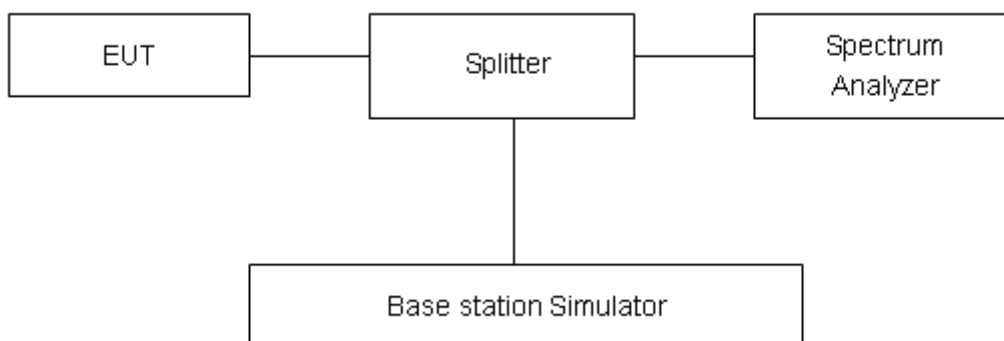
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to $\geq 1\%EBW$, VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

The EUT was connected to spectrum analyzer and system simulator via a power divider.

The band edges of low and high channels for the highest RF powers were measured.

For LTE Band 7/38 set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.

For LTE Band 41 the middle channel, high channel set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used; Low channel set RBW $\geq$ 2% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used. RBW is set to $\geq$ 1%EBW, VBW is set to 3x RBW

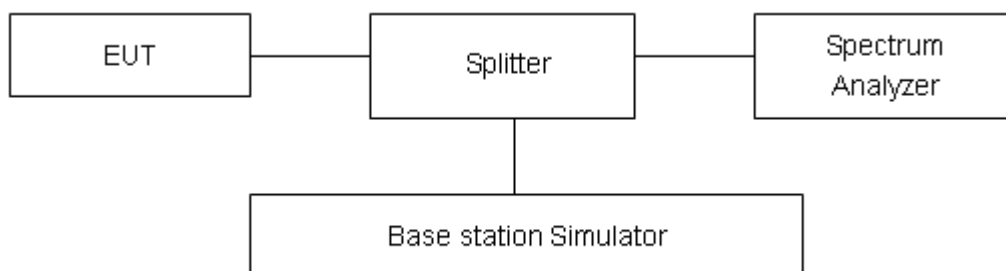
on spectrum analyzer.

Set spectrum analyzer with RMS detector.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Checked that all the results comply with the emission limit line.

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684\text{dB}$.

Test Results

Refer to the section 6.3 of this report for test data.

5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

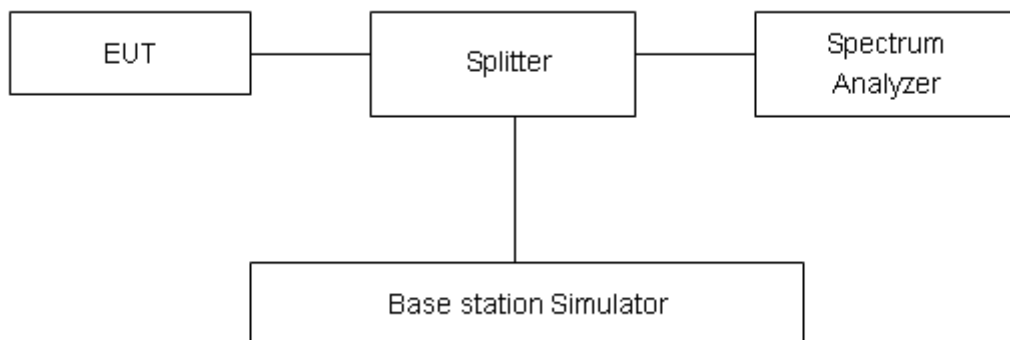
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

Measure the total peak power and record as PPK. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

Test Results

Refer to the section 6.4 of this report for test data.

5.5 Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size.

(1) With all power removed, the temperature was decreased to -10°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

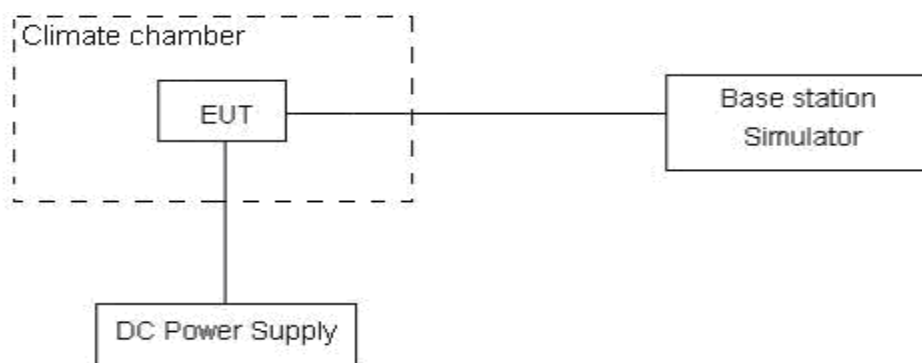
Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.45 V and 4.35 V, with a nominal voltage of 3.8V.

Test setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3, U = 0.01\text{ppm}$.

Test Results

Refer to the section 6.5 of this report for test data.

5.6 Spurious Emissions at Antenna Terminals

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

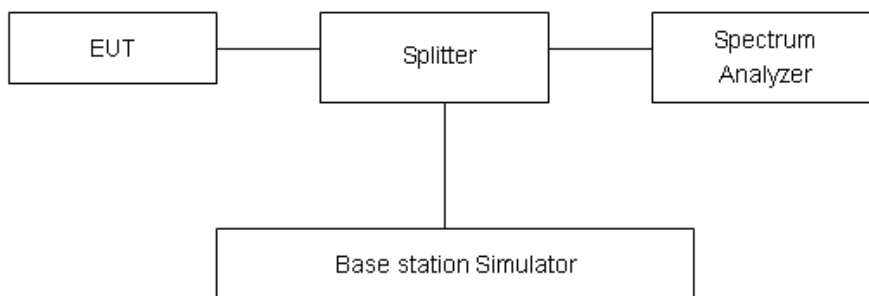
For Band 2/4/5/7/12/17/25/26/38/41, the RBW is set to 100KHz below 1G, and the factor is 10dB for 1MHz.

Sweep is set to AUTO.

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
above 1GHz	1.407 dB

Test Results

Refer to the section 6.6 of this report for test data.

5.7 Radiated Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAG) should be recorded after test.
7. The measurement results are obtained as described below:

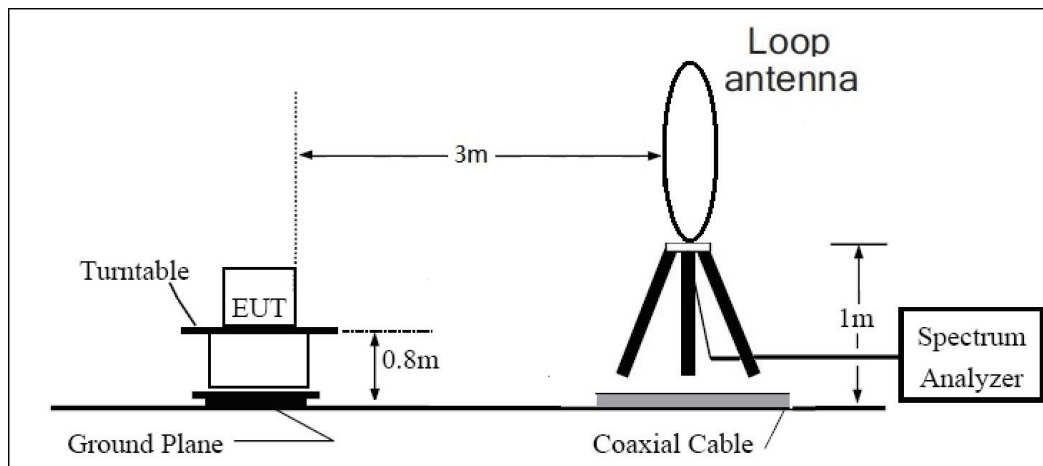
$$\text{Power(EIRP)} = \text{PMea} - \text{PAG} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

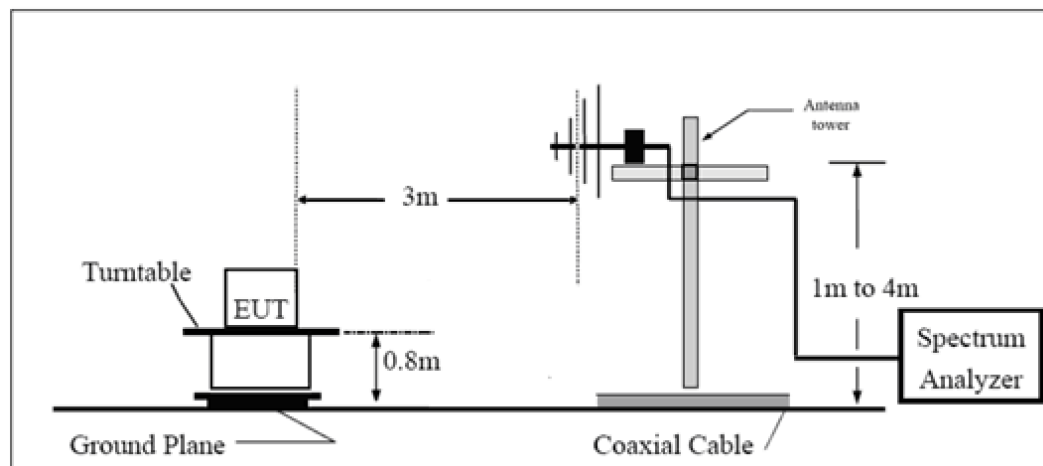
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

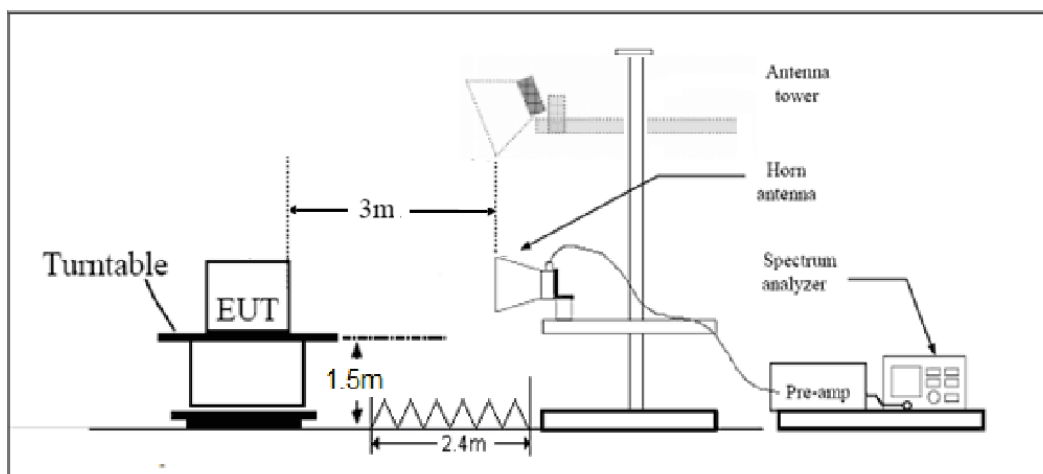
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.

6 Test Results

6.1 RF Power Output and Effective (Isotropic) Radiated Power

GSM 850		Maximum Output Power (dBm)			ERP (dBm)		
		Channel 128	Channel 190	Channel 251	Channel 128	Channel 190	Channel 251
		824.2 (MHz)	836.6 (MHz)	848.8 (MHz)	824.2 (MHz)	836.6 (MHz)	848.8 (MHz)
GPRS (GMSK)	1Txslot	31.51	31.62	31.64	24.54	24.65	24.67
	2Txslots	30.99	31.07	31.16	24.02	24.10	24.19
	3Txslots	29.47	29.58	29.67	22.50	22.61	22.70
	4Txslots	28.34	28.46	28.58	21.37	21.49	21.61
EGPRS	1Txslot	26.85	26.98	26.91	19.88	20.01	19.94
	2Txslots	25.77	25.63	26.35	18.80	18.66	19.38
	3Txslots	23.06	23.36	23.25	16.09	16.39	16.28
	4Txslots	22.15	22.24	22.23	15.18	15.27	15.26

GSM 1900		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 512	Channel 661	Channel 810	Channel 512	Channel 661	Channel 810
		1850.2 (MHz)	1880 (MHz)	1909.8 (MHz)	1850.2 (MHz)	1880 (MHz)	1909.8 (MHz)
GPRS (GMSK)	1TXslot	28.70	28.59	28.51	28.06	27.95	27.87
	2TXslots	28.06	27.98	27.94	27.42	27.34	27.30
	3TXslots	26.36	26.32	26.35	25.72	25.68	25.71
	4TXslots	25.25	25.26	25.31	24.61	24.62	24.67
EGPRS	1TXslot	24.55	23.97	23.85	23.91	23.33	23.21
	2TXslots	23.24	22.36	22.19	22.60	21.72	21.55
	3TXslots	20.66	19.92	18.88	20.02	19.28	18.24
	4TXslots	19.07	18.75	18.28	18.43	18.11	17.64

WCDMA Band II		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 9262	Channel 9400	Channel 9538	Channel 9262	Channel 9400	Channel 9538
		1852.4 (MHz)	1880 (MHz)	1907.6 (MHz)	1852.4 (MHz)	1880 (MHz)	1907.6 (MHz)
RMC		22.30	22.11	21.87	21.66	21.47	21.23
HSDPA	Sub - Test 1	21.76	21.53	21.31	21.12	20.89	20.67
	Sub - Test 2	21.75	21.55	21.28	21.11	20.91	20.64
	Sub - Test 3	21.22	21.05	20.80	20.58	20.41	20.16
	Sub - Test 4	21.23	21.06	20.78	20.59	20.42	20.14
HSUPA	Sub - Test 1	21.72	21.52	21.26	21.08	20.88	20.62
	Sub - Test 2	20.71	20.50	20.25	20.07	19.86	19.61
	Sub - Test 3	21.18	20.98	20.74	20.54	20.34	20.10
	Sub - Test 4	20.64	20.47	20.22	20.00	19.83	19.58
	Sub - Test 5	21.65	21.45	21.20	21.01	20.81	20.56

WCDMA Band IV		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513
		1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)	1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)
RMC		22.17	22.30	22.50	21.74	21.87	22.07
HSDPA	Sub - Test 1	21.63	21.72	21.94	21.20	21.29	21.51
	Sub - Test 2	21.62	21.74	21.91	21.19	21.31	21.48
	Sub - Test 3	21.09	21.24	21.43	20.66	20.81	21.00
	Sub - Test 4	21.10	21.25	21.41	20.67	20.82	20.98
HSUPA	Sub - Test 1	21.59	21.71	21.89	21.16	21.28	21.46
	Sub - Test 2	20.58	20.69	20.88	20.15	20.26	20.45
	Sub - Test 3	21.05	21.17	21.37	20.62	20.74	20.94
	Sub - Test 4	20.51	20.66	20.85	20.08	20.23	20.42
	Sub - Test 5	21.52	21.64	21.83	21.09	21.21	21.40

WCDMA Band V		Maximum Output Power (dBm)			ERP (dBm)		
		Channel 4132	Channel 4183	Channel 4233	Channel 4132	Channel 4183	Channel 4233
		826.4 (MHz)	836.6 (MHz)	846.6 (MHz)	826.4 (MHz)	836.6 (MHz)	846.6 (MHz)
RMC		22.28	22.36	22.42	15.31	15.39	15.45
HSDPA	Sub - Test 1	21.74	21.78	21.86	14.77	14.81	14.89
	Sub - Test 2	21.73	21.80	21.83	14.76	14.83	14.86
	Sub - Test 3	21.20	21.30	21.35	14.23	14.33	14.38
	Sub - Test 4	21.21	21.31	21.33	14.24	14.34	14.36
HSUPA	Sub - Test 1	21.70	21.77	21.81	14.73	14.80	14.84
	Sub - Test 2	20.69	20.75	20.80	13.72	13.78	13.83
	Sub - Test 3	21.16	21.23	21.29	14.19	14.26	14.32
	Sub - Test 4	20.62	20.72	20.77	13.65	13.75	13.80
	Sub - Test 5	21.63	21.70	21.75	14.66	14.73	14.78

LTE Band2						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP
1.4	18607	1	#0	QPSK	22.15	21.51
1.4	18607	1	#Mid	QPSK	22.28	21.64
1.4	18607	1	#Max	QPSK	22.18	21.54
1.4	18607	3	#0	QPSK	22.27	21.63
1.4	18607	3	#Mid	QPSK	22.31	21.67
1.4	18607	3	#Max	QPSK	22.27	21.63
1.4	18607	6	#0	QPSK	21.29	20.65
1.4	18607	1	#0	16QAM	21.36	20.72
1.4	18607	1	#Mid	16QAM	21.47	20.83
1.4	18607	1	#Max	16QAM	21.45	20.81
1.4	18607	3	#0	16QAM	21.27	20.63
1.4	18607	3	#Mid	16QAM	21.26	20.62
1.4	18607	3	#Max	16QAM	20.30	19.66
1.4	18607	6	#0	16QAM	20.41	19.77
1.4	18607	1	#0	64QAM	20.41	19.77
1.4	18607	1	#Mid	64QAM	20.55	19.91
1.4	18607	1	#Max	64QAM	20.47	19.83
1.4	18607	3	#0	64QAM	20.41	19.77
1.4	18607	3	#Mid	64QAM	20.43	19.79
1.4	18607	3	#Max	64QAM	20.38	19.74
1.4	18607	6	#0	64QAM	19.30	18.66
1.4	18900	1	#0	QPSK	22.08	21.44
1.4	18900	1	#Mid	QPSK	22.20	21.56
1.4	18900	1	#Max	QPSK	22.07	21.43
1.4	18900	3	#0	QPSK	22.17	21.53
1.4	18900	3	#Mid	QPSK	22.18	21.54
1.4	18900	3	#Max	QPSK	22.15	21.51
1.4	18900	6	#0	QPSK	21.19	20.55
1.4	18900	1	#0	16QAM	21.44	20.80
1.4	18900	1	#Mid	16QAM	21.56	20.92
1.4	18900	1	#Max	16QAM	21.40	20.76
1.4	18900	3	#0	16QAM	21.24	20.60
1.4	18900	3	#Mid	16QAM	21.25	20.61
1.4	18900	3	#Max	16QAM	21.19	20.55
1.4	18900	6	#0	16QAM	20.30	19.66
1.4	18900	1	#0	64QAM	20.39	19.75
1.4	18900	1	#Mid	64QAM	20.48	19.84
1.4	18900	1	#Max	64QAM	20.30	19.66
1.4	18900	3	#0	64QAM	20.30	19.66
1.4	18900	3	#Mid	64QAM	20.37	19.73

1.4	18900	3	#Max	64QAM	20.32	19.68
1.4	18900	6	#0	64QAM	19.22	18.58
1.4	19193	1	#0	QPSK	21.80	21.16
1.4	19193	1	#Mid	QPSK	21.93	21.29
1.4	19193	1	#Max	QPSK	21.79	21.15
1.4	19193	3	#0	QPSK	21.91	21.27
1.4	19193	3	#Mid	QPSK	21.94	21.30
1.4	19193	3	#Max	QPSK	21.89	21.25
1.4	19193	6	#0	QPSK	20.91	20.27
1.4	19193	1	#0	16QAM	21.07	20.43
1.4	19193	1	#Mid	16QAM	21.25	20.61
1.4	19193	1	#Max	16QAM	21.16	20.52
1.4	19193	3	#0	16QAM	20.88	20.24
1.4	19193	3	#Mid	16QAM	21.00	20.36
1.4	19193	3	#Max	16QAM	20.88	20.24
1.4	19193	6	#0	16QAM	20.01	19.37
1.4	19193	1	#0	64QAM	20.09	19.45
1.4	19193	1	#Mid	64QAM	20.20	19.56
1.4	19193	1	#Max	64QAM	19.97	19.33
1.4	19193	3	#0	64QAM	20.03	19.39
1.4	19193	3	#Mid	64QAM	20.04	19.40
1.4	19193	3	#Max	64QAM	19.98	19.34
1.4	19193	6	#0	64QAM	18.95	18.31
3	18615	1	#0	QPSK	22.22	21.58
3	18615	1	#Mid	QPSK	22.20	21.56
3	18615	1	#Max	QPSK	22.20	21.56
3	18615	8	#0	QPSK	21.27	20.63
3	18615	8	#Mid	QPSK	21.31	20.67
3	18615	8	#Max	QPSK	21.25	20.61
3	18615	15	#0	QPSK	21.29	20.65
3	18615	1	#0	16QAM	21.49	20.85
3	18615	1	#Mid	16QAM	21.43	20.79
3	18615	1	#Max	16QAM	21.52	20.88
3	18615	8	#0	16QAM	20.38	19.74
3	18615	8	#Mid	16QAM	20.43	19.79
3	18615	8	#Max	16QAM	20.32	19.68
3	18615	15	#0	16QAM	20.30	19.66
3	18615	1	#0	64QAM	20.51	19.87
3	18615	1	#Mid	64QAM	20.45	19.81
3	18615	1	#Max	64QAM	20.42	19.78
3	18615	8	#0	64QAM	19.32	18.68
3	18615	8	#Mid	64QAM	19.38	18.74
3	18615	8	#Max	64QAM	19.32	18.68

3	18615	15	#0	64QAM	19.29	18.65
3	18900	1	#0	QPSK	22.13	21.49
3	18900	1	#Mid	QPSK	22.10	21.46
3	18900	1	#Max	QPSK	22.08	21.44
3	18900	8	#0	QPSK	21.14	20.50
3	18900	8	#Mid	QPSK	21.17	20.53
3	18900	8	#Max	QPSK	21.13	20.49
3	18900	15	#0	QPSK	21.13	20.49
3	18900	1	#0	16QAM	21.54	20.90
3	18900	1	#Mid	16QAM	21.46	20.82
3	18900	1	#Max	16QAM	21.45	20.81
3	18900	8	#0	16QAM	20.26	19.62
3	18900	8	#Mid	16QAM	20.28	19.64
3	18900	8	#Max	16QAM	20.23	19.59
3	18900	15	#0	16QAM	20.18	19.54
3	18900	1	#0	64QAM	20.36	19.72
3	18900	1	#Mid	64QAM	20.29	19.65
3	18900	1	#Max	64QAM	20.34	19.70
3	18900	8	#0	64QAM	19.23	18.59
3	18900	8	#Mid	64QAM	19.28	18.64
3	18900	8	#Max	64QAM	19.25	18.61
3	18900	15	#0	64QAM	19.16	18.52
3	19185	1	#0	QPSK	21.75	21.11
3	19185	1	#Mid	QPSK	21.76	21.12
3	19185	1	#Max	QPSK	21.71	21.07
3	19185	8	#0	QPSK	20.75	20.11
3	19185	8	#Mid	QPSK	20.78	20.14
3	19185	8	#Max	QPSK	20.75	20.11
3	19185	15	#0	QPSK	20.76	20.12
3	19185	1	#0	16QAM	21.02	20.38
3	19185	1	#Mid	16QAM	21.03	20.39
3	19185	1	#Max	16QAM	21.04	20.40
3	19185	8	#0	16QAM	19.86	19.22
3	19185	8	#Mid	16QAM	19.87	19.23
3	19185	8	#Max	16QAM	19.87	19.23
3	19185	15	#0	16QAM	19.80	19.16
3	19185	1	#0	64QAM	19.98	19.34
3	19185	1	#Mid	64QAM	19.98	19.34
3	19185	1	#Max	64QAM	19.97	19.33
3	19185	8	#0	64QAM	18.87	18.23
3	19185	8	#Mid	64QAM	18.92	18.28
3	19185	8	#Max	64QAM	18.89	18.25
3	19185	15	#0	64QAM	18.84	18.20

5	18625	1	#0	QPSK	22.11	21.47
5	18625	1	#Mid	QPSK	22.23	21.59
5	18625	1	#Max	QPSK	22.09	21.45
5	18625	12	#0	QPSK	21.27	20.63
5	18625	12	#Mid	QPSK	21.30	20.66
5	18625	12	#Max	QPSK	21.24	20.60
5	18625	25	#0	QPSK	21.26	20.62
5	18625	1	#0	16QAM	21.50	20.86
5	18625	1	#Mid	16QAM	21.58	20.94
5	18625	1	#Max	16QAM	21.44	20.80
5	18625	12	#0	16QAM	20.30	19.66
5	18625	12	#Mid	16QAM	20.32	19.68
5	18625	12	#Max	16QAM	20.27	19.63
5	18625	25	#0	16QAM	20.30	19.66
5	18625	1	#0	64QAM	20.36	19.72
5	18625	1	#Mid	64QAM	20.43	19.79
5	18625	1	#Max	64QAM	20.30	19.66
5	18625	12	#0	64QAM	19.32	18.68
5	18625	12	#Mid	64QAM	19.36	18.72
5	18625	12	#Max	64QAM	19.29	18.65
5	18625	25	#0	64QAM	19.30	18.66
5	18900	1	#0	QPSK	22.06	21.42
5	18900	1	#Mid	QPSK	22.16	21.52
5	18900	1	#Max	QPSK	22.01	21.37
5	18900	12	#0	QPSK	21.16	20.52
5	18900	12	#Mid	QPSK	21.21	20.57
5	18900	12	#Max	QPSK	21.15	20.51
5	18900	25	#0	QPSK	21.17	20.53
5	18900	1	#0	16QAM	21.27	20.63
5	18900	1	#Mid	16QAM	21.53	20.89
5	18900	1	#Max	16QAM	21.31	20.67
5	18900	12	#0	16QAM	20.19	19.55
5	18900	12	#Mid	16QAM	20.23	19.59
5	18900	12	#Max	16QAM	20.20	19.56
5	18900	25	#0	16QAM	20.23	19.59
5	18900	1	#0	64QAM	20.23	19.59
5	18900	1	#Mid	64QAM	20.39	19.75
5	18900	1	#Max	64QAM	20.17	19.53
5	18900	12	#0	64QAM	19.23	18.59
5	18900	12	#Mid	64QAM	19.29	18.65
5	18900	12	#Max	64QAM	19.21	18.57
5	18900	25	#0	64QAM	19.25	18.61
5	19175	1	#0	QPSK	21.68	21.04

5	19175	1	#Mid	QPSK	21.81	21.17
5	19175	1	#Max	QPSK	21.64	21.00
5	19175	12	#0	QPSK	20.80	20.16
5	19175	12	#Mid	QPSK	20.83	20.19
5	19175	12	#Max	QPSK	20.79	20.15
5	19175	25	#0	QPSK	20.80	20.16
5	19175	1	#0	16QAM	21.08	20.44
5	19175	1	#Mid	16QAM	21.16	20.52
5	19175	1	#Max	16QAM	21.02	20.38
5	19175	12	#0	16QAM	19.82	19.18
5	19175	12	#Mid	16QAM	19.88	19.24
5	19175	12	#Max	16QAM	19.80	19.16
5	19175	25	#0	16QAM	19.85	19.21
5	19175	1	#0	64QAM	19.93	19.29
5	19175	1	#Mid	64QAM	20.01	19.37
5	19175	1	#Max	64QAM	19.91	19.27
5	19175	12	#0	64QAM	18.87	18.23
5	19175	12	#Mid	64QAM	18.92	18.28
5	19175	12	#Max	64QAM	18.89	18.25
5	19175	25	#0	64QAM	18.85	18.21
10	18650	1	#0	QPSK	22.25	21.61
10	18650	1	#Mid	QPSK	22.34	21.70
10	18650	1	#Max	QPSK	22.23	21.59
10	18650	25	#0	QPSK	21.35	20.71
10	18650	25	#Mid	QPSK	21.28	20.64
10	18650	25	#Max	QPSK	21.24	20.60
10	18650	50	#0	QPSK	21.29	20.65
10	18650	1	#0	16QAM	21.45	20.81
10	18650	1	#Mid	16QAM	21.61	20.97
10	18650	1	#Max	16QAM	21.50	20.86
10	18650	25	#0	16QAM	20.37	19.73
10	18650	25	#Mid	16QAM	20.32	19.68
10	18650	25	#Max	16QAM	20.27	19.63
10	18650	50	#0	16QAM	20.32	19.68
10	18650	1	#0	64QAM	20.46	19.82
10	18650	1	#Mid	64QAM	20.45	19.81
10	18650	1	#Max	64QAM	20.49	19.85
10	18650	25	#0	64QAM	19.38	18.74
10	18650	25	#Mid	64QAM	19.30	18.66
10	18650	25	#Max	64QAM	19.29	18.65
10	18650	50	#0	64QAM	19.32	18.68
10	18900	1	#0	QPSK	22.20	21.56
10	18900	1	#Mid	QPSK	22.21	21.57

10	18900	1	#Max	QPSK	22.05	21.41
10	18900	25	#0	QPSK	21.24	20.60
10	18900	25	#Mid	QPSK	21.22	20.58
10	18900	25	#Max	QPSK	21.20	20.56
10	18900	50	#0	QPSK	21.22	20.58
10	18900	1	#0	16QAM	21.60	20.96
10	18900	1	#Mid	16QAM	21.58	20.94
10	18900	1	#Max	16QAM	21.33	20.69
10	18900	25	#0	16QAM	20.30	19.66
10	18900	25	#Mid	16QAM	20.27	19.63
10	18900	25	#Max	16QAM	20.22	19.58
10	18900	50	#0	16QAM	20.26	19.62
10	18900	1	#0	64QAM	20.44	19.80
10	18900	1	#Mid	64QAM	20.47	19.83
10	18900	1	#Max	64QAM	20.22	19.58
10	18900	25	#0	64QAM	19.28	18.64
10	18900	25	#Mid	64QAM	19.28	18.64
10	18900	25	#Max	64QAM	19.19	18.55
10	18900	50	#0	64QAM	19.25	18.61
10	19150	1	#0	QPSK	21.82	21.18
10	19150	1	#Mid	QPSK	21.87	21.23
10	19150	1	#Max	QPSK	21.76	21.12
10	19150	25	#0	QPSK	20.87	20.23
10	19150	25	#Mid	QPSK	20.86	20.22
10	19150	25	#Max	QPSK	20.87	20.23
10	19150	50	#0	QPSK	20.89	20.25
10	19150	1	#0	16QAM	21.13	20.49
10	19150	1	#Mid	16QAM	21.21	20.57
10	19150	1	#Max	16QAM	21.02	20.38
10	19150	25	#0	16QAM	19.93	19.29
10	19150	25	#Mid	16QAM	19.92	19.28
10	19150	25	#Max	16QAM	19.89	19.25
10	19150	50	#0	16QAM	19.93	19.29
10	19150	1	#0	64QAM	19.98	19.34
10	19150	1	#Mid	64QAM	20.11	19.47
10	19150	1	#Max	64QAM	20.00	19.36
10	19150	25	#0	64QAM	18.95	18.31
10	19150	25	#Mid	64QAM	18.94	18.30
10	19150	25	#Max	64QAM	18.94	18.30
10	19150	50	#0	64QAM	18.95	18.31
15	18675	1	#0	QPSK	22.18	21.54
15	18675	1	#Mid	QPSK	22.27	21.63
15	18675	1	#Max	QPSK	22.21	21.57

15	18675	36	#0	QPSK	21.37	20.73
15	18675	36	#Mid	QPSK	21.31	20.67
15	18675	36	#Max	QPSK	21.28	20.64
15	18675	75	#0	QPSK	21.30	20.66
15	18675	1	#0	16QAM	21.44	20.80
15	18675	1	#Mid	16QAM	21.62	20.98
15	18675	1	#Max	16QAM	21.59	20.95
15	18675	36	#0	16QAM	20.37	19.73
15	18675	36	#Mid	16QAM	20.30	19.66
15	18675	36	#Max	16QAM	20.30	19.66
15	18675	75	#0	16QAM	20.32	19.68
15	18675	1	#0	64QAM	20.41	19.77
15	18675	1	#Mid	64QAM	20.51	19.87
15	18675	1	#Max	64QAM	20.43	19.79
15	18675	36	#0	64QAM	19.38	18.74
15	18675	36	#Mid	64QAM	19.34	18.70
15	18675	36	#Max	64QAM	19.34	18.70
15	18675	75	#0	64QAM	19.32	18.68
15	18900	1	#0	QPSK	22.18	21.54
15	18900	1	#Mid	QPSK	22.12	21.48
15	18900	1	#Max	QPSK	21.95	21.31
15	18900	36	#0	QPSK	21.25	20.61
15	18900	36	#Mid	QPSK	21.24	20.60
15	18900	36	#Max	QPSK	21.14	20.50
15	18900	75	#0	QPSK	21.21	20.57
15	18900	1	#0	16QAM	21.47	20.83
15	18900	1	#Mid	16QAM	21.52	20.88
15	18900	1	#Max	16QAM	21.29	20.65
15	18900	36	#0	16QAM	20.25	19.61
15	18900	36	#Mid	16QAM	20.25	19.61
15	18900	36	#Max	16QAM	20.14	19.50
15	18900	75	#0	16QAM	20.23	19.59
15	18900	1	#0	64QAM	20.46	19.82
15	18900	1	#Mid	64QAM	20.36	19.72
15	18900	1	#Max	64QAM	20.17	19.53
15	18900	36	#0	64QAM	19.29	18.65
15	18900	36	#Mid	64QAM	19.29	18.65
15	18900	36	#Max	64QAM	19.21	18.57
15	18900	75	#0	64QAM	19.22	18.58
15	19125	1	#0	QPSK	21.79	21.15
15	19125	1	#Mid	QPSK	21.82	21.18
15	19125	1	#Max	QPSK	21.71	21.07
15	19125	36	#0	QPSK	20.89	20.25

15	19125	36	#Mid	QPSK	20.88	20.24
15	19125	36	#Max	QPSK	20.84	20.20
15	19125	75	#0	QPSK	20.88	20.24
15	19125	1	#0	16QAM	21.19	20.55
15	19125	1	#Mid	16QAM	21.21	20.57
15	19125	1	#Max	16QAM	20.98	20.34
15	19125	36	#0	16QAM	19.89	19.25
15	19125	36	#Mid	16QAM	19.88	19.24
15	19125	36	#Max	16QAM	19.84	19.20
15	19125	75	#0	16QAM	19.92	19.28
15	19125	1	#0	64QAM	20.05	19.41
15	19125	1	#Mid	64QAM	20.05	19.41
15	19125	1	#Max	64QAM	19.86	19.22
15	19125	36	#0	64QAM	18.97	18.33
15	19125	36	#Mid	64QAM	18.93	18.29
15	19125	36	#Max	64QAM	18.92	18.28
15	19125	75	#0	64QAM	18.96	18.32
20	18700	1	#0	QPSK	22.07	21.43
20	18700	1	#Mid	QPSK	22.36	21.72
20	18700	1	#Max	QPSK	22.03	21.39
20	18700	50	#0	QPSK	21.38	20.74
20	18700	50	#Mid	QPSK	21.33	20.69
20	18700	50	#Max	QPSK	21.34	20.70
20	18700	100	#0	QPSK	21.34	20.70
20	18700	1	#0	16QAM	21.24	20.60
20	18700	1	#Mid	16QAM	21.58	20.94
20	18700	1	#Max	16QAM	21.34	20.70
20	18700	50	#0	16QAM	20.43	19.79
20	18700	50	#Mid	16QAM	20.39	19.75
20	18700	50	#Max	16QAM	20.37	19.73
20	18700	100	#0	16QAM	20.39	19.75
20	18700	1	#0	64QAM	20.23	19.59
20	18700	1	#Mid	64QAM	20.56	19.92
20	18700	1	#Max	64QAM	20.23	19.59
20	18700	50	#0	64QAM	19.43	18.79
20	18700	50	#Mid	64QAM	19.37	18.73
20	18700	50	#Max	64QAM	19.41	18.77
20	18700	100	#0	64QAM	19.42	18.78
20	18900	1	#0	QPSK	22.05	21.41
20	18900	1	#Mid	QPSK	22.25	21.61
20	18900	1	#Max	QPSK	21.73	21.09
20	18900	50	#0	QPSK	21.22	20.58
20	18900	50	#Mid	QPSK	21.24	20.60

20	18900	50	#Max	QPSK	21.10	20.46
20	18900	100	#0	QPSK	21.16	20.52
20	18900	1	#0	16QAM	21.43	20.79
20	18900	1	#Mid	16QAM	21.45	20.81
20	18900	1	#Max	16QAM	21.04	20.40
20	18900	50	#0	16QAM	20.25	19.61
20	18900	50	#Mid	16QAM	20.26	19.62
20	18900	50	#Max	16QAM	20.12	19.48
20	18900	100	#0	16QAM	20.18	19.54
20	18900	1	#0	64QAM	20.23	19.59
20	18900	1	#Mid	64QAM	20.48	19.84
20	18900	1	#Max	64QAM	19.98	19.34
20	18900	50	#0	64QAM	19.27	18.63
20	18900	50	#Mid	64QAM	19.29	18.65
20	18900	50	#Max	64QAM	19.16	18.52
20	18900	100	#0	64QAM	19.21	18.57
20	19100	1	#0	QPSK	21.72	21.08
20	19100	1	#Mid	QPSK	21.95	21.31
20	19100	1	#Max	QPSK	21.57	20.93
20	19100	50	#0	QPSK	20.98	20.34
20	19100	50	#Mid	QPSK	20.90	20.26
20	19100	50	#Max	QPSK	20.87	20.23
20	19100	100	#0	QPSK	20.91	20.27
20	19100	1	#0	16QAM	21.08	20.44
20	19100	1	#Mid	16QAM	21.30	20.66
20	19100	1	#Max	16QAM	20.77	20.13
20	19100	50	#0	16QAM	20.02	19.38
20	19100	50	#Mid	16QAM	19.94	19.30
20	19100	50	#Max	16QAM	19.92	19.28
20	19100	100	#0	16QAM	19.95	19.31
20	19100	1	#0	64QAM	19.92	19.28
20	19100	1	#Mid	64QAM	20.13	19.49
20	19100	1	#Max	64QAM	19.70	19.06
20	19100	50	#0	64QAM	19.07	18.43
20	19100	50	#Mid	64QAM	18.95	18.31
20	19100	50	#Max	64QAM	18.95	18.31
20	19100	100	#0	64QAM	19.03	18.39
LTE Band4						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP
1.4	19957	1	#0	QPSK	22.28	21.85
1.4	19957	1	#Mid	QPSK	22.40	21.97
1.4	19957	1	#Max	QPSK	22.28	21.85
1.4	19957	3	#0	QPSK	22.39	21.96

1.4	19957	3	#Mid	QPSK	22.42	21.99
1.4	19957	3	#Max	QPSK	22.38	21.95
1.4	19957	6	#0	QPSK	21.43	21.00
1.4	19957	1	#0	16QAM	21.43	21.00
1.4	19957	1	#Mid	16QAM	21.56	21.13
1.4	19957	1	#Max	16QAM	21.46	21.03
1.4	19957	3	#0	16QAM	21.32	20.89
1.4	19957	3	#Mid	16QAM	21.32	20.89
1.4	19957	3	#Max	16QAM	21.34	20.91
1.4	19957	6	#0	16QAM	20.50	20.07
1.4	19957	1	#0	64QAM	20.41	19.98
1.4	19957	1	#Mid	64QAM	20.54	20.11
1.4	19957	1	#Max	64QAM	20.48	20.05
1.4	19957	3	#0	64QAM	20.51	20.08
1.4	19957	3	#Mid	64QAM	20.47	20.04
1.4	19957	3	#Max	64QAM	20.44	20.01
1.4	19957	6	#0	64QAM	19.45	19.02
1.4	20175	1	#0	QPSK	22.36	21.93
1.4	20175	1	#Mid	QPSK	22.45	22.02
1.4	20175	1	#Max	QPSK	22.37	21.94
1.4	20175	3	#0	QPSK	22.46	22.03
1.4	20175	3	#Mid	QPSK	22.50	22.07
1.4	20175	3	#Max	QPSK	22.46	22.03
1.4	20175	6	#0	QPSK	21.51	21.08
1.4	20175	1	#0	16QAM	21.58	21.15
1.4	20175	1	#Mid	16QAM	21.73	21.30
1.4	20175	1	#Max	16QAM	21.70	21.27
1.4	20175	3	#0	16QAM	21.50	21.07
1.4	20175	3	#Mid	16QAM	21.51	21.08
1.4	20175	3	#Max	16QAM	21.44	21.01
1.4	20175	6	#0	16QAM	20.59	20.16
1.4	20175	1	#0	64QAM	20.65	20.22
1.4	20175	1	#Mid	64QAM	20.68	20.25
1.4	20175	1	#Max	64QAM	20.55	20.12
1.4	20175	3	#0	64QAM	20.58	20.15
1.4	20175	3	#Mid	64QAM	20.61	20.18
1.4	20175	3	#Max	64QAM	20.58	20.15
1.4	20175	6	#0	64QAM	19.54	19.11
1.4	20393	1	#0	QPSK	22.70	22.27
1.4	20393	1	#Mid	QPSK	22.82	22.39
1.4	20393	1	#Max	QPSK	22.67	22.24
1.4	20393	3	#0	QPSK	22.81	22.38
1.4	20393	3	#Mid	QPSK	22.80	22.37

1.4	20393	3	#Max	QPSK	22.78	22.35
1.4	20393	6	#0	QPSK	21.81	21.38
1.4	20393	1	#0	16QAM	21.96	21.53
1.4	20393	1	#Mid	16QAM	22.17	21.74
1.4	20393	1	#Max	16QAM	21.93	21.50
1.4	20393	3	#0	16QAM	21.74	21.31
1.4	20393	3	#Mid	16QAM	21.86	21.43
1.4	20393	3	#Max	16QAM	21.78	21.35
1.4	20393	6	#0	16QAM	20.93	20.50
1.4	20393	1	#0	64QAM	20.95	20.52
1.4	20393	1	#Mid	64QAM	20.98	20.55
1.4	20393	1	#Max	64QAM	21.00	20.57
1.4	20393	3	#0	64QAM	20.91	20.48
1.4	20393	3	#Mid	64QAM	20.92	20.49
1.4	20393	3	#Max	64QAM	20.87	20.44
1.4	20393	6	#0	64QAM	19.89	19.46
3	19965	1	#0	QPSK	22.30	21.87
3	19965	1	#Mid	QPSK	22.33	21.90
3	19965	1	#Max	QPSK	22.33	21.90
3	19965	8	#0	QPSK	21.33	20.90
3	19965	8	#Mid	QPSK	21.43	21.00
3	19965	8	#Max	QPSK	21.37	20.94
3	19965	15	#0	QPSK	21.41	20.98
3	19965	1	#0	16QAM	21.53	21.10
3	19965	1	#Mid	16QAM	21.57	21.14
3	19965	1	#Max	16QAM	21.56	21.13
3	19965	8	#0	16QAM	20.38	19.95
3	19965	8	#Mid	16QAM	20.49	20.06
3	19965	8	#Max	16QAM	20.45	20.02
3	19965	15	#0	16QAM	20.41	19.98
3	19965	1	#0	64QAM	20.45	20.02
3	19965	1	#Mid	64QAM	20.56	20.13
3	19965	1	#Max	64QAM	20.47	20.04
3	19965	8	#0	64QAM	19.46	19.03
3	19965	8	#Mid	64QAM	19.53	19.10
3	19965	8	#Max	64QAM	19.47	19.04
3	19965	15	#0	64QAM	19.45	19.02
3	20175	1	#0	QPSK	22.42	21.99
3	20175	1	#Mid	QPSK	22.45	22.02
3	20175	1	#Max	QPSK	22.38	21.95
3	20175	8	#0	QPSK	21.46	21.03
3	20175	8	#Mid	QPSK	21.51	21.08
3	20175	8	#Max	QPSK	21.47	21.04

3	20175	15	#0	QPSK	21.50	21.07
3	20175	1	#0	16QAM	21.63	21.20
3	20175	1	#Mid	16QAM	21.69	21.26
3	20175	1	#Max	16QAM	21.69	21.26
3	20175	8	#0	16QAM	20.55	20.12
3	20175	8	#Mid	16QAM	20.61	20.18
3	20175	8	#Max	16QAM	20.55	20.12
3	20175	15	#0	16QAM	20.50	20.07
3	20175	1	#0	64QAM	20.64	20.21
3	20175	1	#Mid	64QAM	20.65	20.22
3	20175	1	#Max	64QAM	20.60	20.17
3	20175	8	#0	64QAM	19.55	19.12
3	20175	8	#Mid	64QAM	19.57	19.14
3	20175	8	#Max	64QAM	19.57	19.14
3	20175	15	#0	64QAM	19.54	19.11
3	20385	1	#0	QPSK	22.71	22.28
3	20385	1	#Mid	QPSK	22.74	22.31
3	20385	1	#Max	QPSK	22.71	22.28
3	20385	8	#0	QPSK	21.75	21.32
3	20385	8	#Mid	QPSK	21.79	21.36
3	20385	8	#Max	QPSK	21.78	21.35
3	20385	15	#0	QPSK	21.78	21.35
3	20385	1	#0	16QAM	22.00	21.57
3	20385	1	#Mid	16QAM	22.00	21.57
3	20385	1	#Max	16QAM	21.95	21.52
3	20385	8	#0	16QAM	20.86	20.43
3	20385	8	#Mid	16QAM	20.91	20.48
3	20385	8	#Max	16QAM	20.86	20.43
3	20385	15	#0	16QAM	20.80	20.37
3	20385	1	#0	64QAM	20.92	20.49
3	20385	1	#Mid	64QAM	20.98	20.55
3	20385	1	#Max	64QAM	20.91	20.48
3	20385	8	#0	64QAM	19.89	19.46
3	20385	8	#Mid	64QAM	19.91	19.48
3	20385	8	#Max	64QAM	19.92	19.49
3	20385	15	#0	64QAM	19.85	19.42
5	19975	1	#0	QPSK	22.15	21.72
5	19975	1	#Mid	QPSK	22.35	21.92
5	19975	1	#Max	QPSK	22.20	21.77
5	19975	12	#0	QPSK	21.36	20.93
5	19975	12	#Mid	QPSK	21.45	21.02
5	19975	12	#Max	QPSK	21.40	20.97
5	19975	25	#0	QPSK	21.41	20.98

5	19975	1	#0	16QAM	21.43	21.00
5	19975	1	#Mid	16QAM	21.56	21.13
5	19975	1	#Max	16QAM	21.52	21.09
5	19975	12	#0	16QAM	20.38	19.95
5	19975	12	#Mid	16QAM	20.41	19.98
5	19975	12	#Max	16QAM	20.41	19.98
5	19975	25	#0	16QAM	20.41	19.98
5	19975	1	#0	64QAM	20.38	19.95
5	19975	1	#Mid	64QAM	20.59	20.16
5	19975	1	#Max	64QAM	20.47	20.04
5	19975	12	#0	64QAM	19.44	19.01
5	19975	12	#Mid	64QAM	19.51	19.08
5	19975	12	#Max	64QAM	19.48	19.05
5	19975	25	#0	64QAM	19.45	19.02
5	20175	1	#0	QPSK	22.29	21.86
5	20175	1	#Mid	QPSK	22.43	22.00
5	20175	1	#Max	QPSK	22.30	21.87
5	20175	12	#0	QPSK	21.46	21.03
5	20175	12	#Mid	QPSK	21.54	21.11
5	20175	12	#Max	QPSK	21.51	21.08
5	20175	25	#0	QPSK	21.50	21.07
5	20175	1	#0	16QAM	21.60	21.17
5	20175	1	#Mid	16QAM	21.67	21.24
5	20175	1	#Max	16QAM	21.56	21.13
5	20175	12	#0	16QAM	20.45	20.02
5	20175	12	#Mid	16QAM	20.55	20.12
5	20175	12	#Max	16QAM	20.50	20.07
5	20175	25	#0	16QAM	20.50	20.07
5	20175	1	#0	64QAM	20.46	20.03
5	20175	1	#Mid	64QAM	20.67	20.24
5	20175	1	#Max	64QAM	20.48	20.05
5	20175	12	#0	64QAM	19.47	19.04
5	20175	12	#Mid	64QAM	19.61	19.18
5	20175	12	#Max	64QAM	19.55	19.12
5	20175	25	#0	64QAM	19.50	19.07
5	20375	1	#0	QPSK	22.56	22.13
5	20375	1	#Mid	QPSK	22.76	22.33
5	20375	1	#Max	QPSK	22.61	22.18
5	20375	12	#0	QPSK	21.74	21.31
5	20375	12	#Mid	QPSK	21.81	21.38
5	20375	12	#Max	QPSK	21.77	21.34
5	20375	25	#0	QPSK	21.76	21.33
5	20375	1	#0	16QAM	21.82	21.39

5	20375	1	#Mid	16QAM	21.98	21.55
5	20375	1	#Max	16QAM	21.82	21.39
5	20375	12	#0	16QAM	20.74	20.31
5	20375	12	#Mid	16QAM	20.81	20.38
5	20375	12	#Max	16QAM	20.80	20.37
5	20375	25	#0	16QAM	20.81	20.38
5	20375	1	#0	64QAM	20.75	20.32
5	20375	1	#Mid	64QAM	20.91	20.48
5	20375	1	#Max	64QAM	20.78	20.35
5	20375	12	#0	64QAM	19.82	19.39
5	20375	12	#Mid	64QAM	19.89	19.46
5	20375	12	#Max	64QAM	19.87	19.44
5	20375	25	#0	64QAM	19.84	19.41
10	20000	1	#0	QPSK	22.29	21.86
10	20000	1	#Mid	QPSK	22.51	22.08
10	20000	1	#Max	QPSK	22.42	21.99
10	20000	25	#0	QPSK	21.46	21.03
10	20000	25	#Mid	QPSK	21.47	21.04
10	20000	25	#Max	QPSK	21.56	21.13
10	20000	50	#0	QPSK	21.51	21.08
10	20000	1	#0	16QAM	21.47	21.04
10	20000	1	#Mid	16QAM	21.68	21.25
10	20000	1	#Max	16QAM	21.70	21.27
10	20000	25	#0	16QAM	20.44	20.01
10	20000	25	#Mid	16QAM	20.48	20.05
10	20000	25	#Max	16QAM	20.55	20.12
10	20000	50	#0	16QAM	20.50	20.07
10	20000	1	#0	64QAM	20.44	20.01
10	20000	1	#Mid	64QAM	20.67	20.24
10	20000	1	#Max	64QAM	20.59	20.16
10	20000	25	#0	64QAM	19.50	19.07
10	20000	25	#Mid	64QAM	19.52	19.09
10	20000	25	#Max	64QAM	19.62	19.19
10	20000	50	#0	64QAM	19.55	19.12
10	20175	1	#0	QPSK	22.41	21.98
10	20175	1	#Mid	QPSK	22.52	22.09
10	20175	1	#Max	QPSK	22.42	21.99
10	20175	25	#0	QPSK	21.49	21.06
10	20175	25	#Mid	QPSK	21.54	21.11
10	20175	25	#Max	QPSK	21.57	21.14
10	20175	50	#0	QPSK	21.55	21.12
10	20175	1	#0	16QAM	21.78	21.35
10	20175	1	#Mid	16QAM	21.85	21.42

10	20175	1	#Max	16QAM	21.62	21.19
10	20175	25	#0	16QAM	20.51	20.08
10	20175	25	#Mid	16QAM	20.57	20.14
10	20175	25	#Max	16QAM	20.57	20.14
10	20175	50	#0	16QAM	20.55	20.12
10	20175	1	#0	64QAM	20.61	20.18
10	20175	1	#Mid	64QAM	20.67	20.24
10	20175	1	#Max	64QAM	20.56	20.13
10	20175	25	#0	64QAM	19.51	19.08
10	20175	25	#Mid	64QAM	19.57	19.14
10	20175	25	#Max	64QAM	19.52	19.09
10	20175	50	#0	64QAM	19.54	19.11
10	20350	1	#0	QPSK	22.61	22.18
10	20350	1	#Mid	QPSK	22.80	22.37
10	20350	1	#Max	QPSK	22.72	22.29
10	20350	25	#0	QPSK	21.77	21.34
10	20350	25	#Mid	QPSK	21.81	21.38
10	20350	25	#Max	QPSK	21.85	21.42
10	20350	50	#0	QPSK	21.83	21.40
10	20350	1	#0	16QAM	21.87	21.44
10	20350	1	#Mid	16QAM	22.04	21.61
10	20350	1	#Max	16QAM	21.89	21.46
10	20350	25	#0	16QAM	20.77	20.34
10	20350	25	#Mid	16QAM	20.82	20.39
10	20350	25	#Max	16QAM	20.86	20.43
10	20350	50	#0	16QAM	20.83	20.40
10	20350	1	#0	64QAM	20.82	20.39
10	20350	1	#Mid	64QAM	20.95	20.52
10	20350	1	#Max	64QAM	20.88	20.45
10	20350	25	#0	64QAM	19.84	19.41
10	20350	25	#Mid	64QAM	19.86	19.43
10	20350	25	#Max	64QAM	19.89	19.46
10	20350	50	#0	64QAM	19.87	19.44
15	20025	1	#0	QPSK	22.17	21.74
15	20025	1	#Mid	QPSK	22.40	21.97
15	20025	1	#Max	QPSK	22.38	21.95
15	20025	36	#0	QPSK	21.43	21.00
15	20025	36	#Mid	QPSK	21.50	21.07
15	20025	36	#Max	QPSK	21.53	21.10
15	20025	75	#0	QPSK	21.48	21.05
15	20025	1	#0	16QAM	21.39	20.96
15	20025	1	#Mid	16QAM	21.60	21.17
15	20025	1	#Max	16QAM	21.65	21.22

15	20025	36	#0	16QAM	20.43	20.00
15	20025	36	#Mid	16QAM	20.48	20.05
15	20025	36	#Max	16QAM	20.55	20.12
15	20025	75	#0	16QAM	20.47	20.04
15	20025	1	#0	64QAM	20.37	19.94
15	20025	1	#Mid	64QAM	20.64	20.21
15	20025	1	#Max	64QAM	20.59	20.16
15	20025	36	#0	64QAM	19.48	19.05
15	20025	36	#Mid	64QAM	19.55	19.12
15	20025	36	#Max	64QAM	19.57	19.14
15	20025	75	#0	64QAM	19.51	19.08
15	20175	1	#0	QPSK	22.33	21.90
15	20175	1	#Mid	QPSK	22.43	22.00
15	20175	1	#Max	QPSK	22.36	21.93
15	20175	36	#0	QPSK	21.47	21.04
15	20175	36	#Mid	QPSK	21.54	21.11
15	20175	36	#Max	QPSK	21.56	21.13
15	20175	75	#0	QPSK	21.49	21.06
15	20175	1	#0	16QAM	21.70	21.27
15	20175	1	#Mid	16QAM	21.78	21.35
15	20175	1	#Max	16QAM	21.62	21.19
15	20175	36	#0	16QAM	20.46	20.03
15	20175	36	#Mid	16QAM	20.50	20.07
15	20175	36	#Max	16QAM	20.51	20.08
15	20175	75	#0	16QAM	20.51	20.08
15	20175	1	#0	64QAM	20.50	20.07
15	20175	1	#Mid	64QAM	20.67	20.24
15	20175	1	#Max	64QAM	20.54	20.11
15	20175	36	#0	64QAM	19.50	19.07
15	20175	36	#Mid	64QAM	19.55	19.12
15	20175	36	#Max	64QAM	19.54	19.11
15	20175	75	#0	64QAM	19.48	19.05
15	20325	1	#0	QPSK	22.36	21.93
15	20325	1	#Mid	QPSK	22.56	22.13
15	20325	1	#Max	QPSK	22.56	22.13
15	20325	36	#0	QPSK	21.62	21.19
15	20325	36	#Mid	QPSK	21.66	21.23
15	20325	36	#Max	QPSK	21.69	21.26
15	20325	75	#0	QPSK	21.65	21.22
15	20325	1	#0	16QAM	21.64	21.21
15	20325	1	#Mid	16QAM	21.85	21.42
15	20325	1	#Max	16QAM	21.90	21.47
15	20325	36	#0	16QAM	20.59	20.16

15	20325	36	#Mid	16QAM	20.61	20.18
15	20325	36	#Max	16QAM	20.68	20.25
15	20325	75	#0	16QAM	20.65	20.22
15	20325	1	#0	64QAM	20.57	20.14
15	20325	1	#Mid	64QAM	20.78	20.35
15	20325	1	#Max	64QAM	20.70	20.27
15	20325	36	#0	64QAM	19.64	19.21
15	20325	36	#Mid	64QAM	19.69	19.26
15	20325	36	#Max	64QAM	19.73	19.30
15	20325	75	#0	64QAM	19.70	19.27
20	20050	1	#0	QPSK	22.03	21.60
20	20050	1	#Mid	QPSK	22.59	22.16
20	20050	1	#Max	QPSK	22.16	21.73
20	20050	50	#0	QPSK	21.42	20.99
20	20050	50	#Mid	QPSK	21.50	21.07
20	20050	50	#Max	QPSK	21.57	21.14
20	20050	100	#0	QPSK	21.49	21.06
20	20050	1	#0	16QAM	21.26	20.83
20	20050	1	#Mid	16QAM	21.84	21.41
20	20050	1	#Max	16QAM	21.38	20.95
20	20050	50	#0	16QAM	20.43	20.00
20	20050	50	#Mid	16QAM	20.50	20.07
20	20050	50	#Max	16QAM	20.60	20.17
20	20050	100	#0	16QAM	20.47	20.04
20	20050	1	#0	64QAM	20.25	19.82
20	20050	1	#Mid	64QAM	20.75	20.32
20	20050	1	#Max	64QAM	20.42	19.99
20	20050	50	#0	64QAM	19.45	19.02
20	20050	50	#Mid	64QAM	19.54	19.11
20	20050	50	#Max	64QAM	19.63	19.20
20	20050	100	#0	64QAM	19.52	19.09
20	20175	1	#0	QPSK	22.10	21.67
20	20175	1	#Mid	QPSK	22.48	22.05
20	20175	1	#Max	QPSK	22.19	21.76
20	20175	50	#0	QPSK	21.43	21.00
20	20175	50	#Mid	QPSK	21.54	21.11
20	20175	50	#Max	QPSK	21.53	21.10
20	20175	100	#0	QPSK	21.46	21.03
20	20175	1	#0	16QAM	21.39	20.96
20	20175	1	#Mid	16QAM	21.82	21.39
20	20175	1	#Max	16QAM	21.52	21.09
20	20175	50	#0	16QAM	20.43	20.00
20	20175	50	#Mid	16QAM	20.55	20.12

20	20175	50	#Max	16QAM	20.52	20.09
20	20175	100	#0	16QAM	20.46	20.03
20	20175	1	#0	64QAM	20.34	19.91
20	20175	1	#Mid	64QAM	20.74	20.31
20	20175	1	#Max	64QAM	20.35	19.92
20	20175	50	#0	64QAM	19.47	19.04
20	20175	50	#Mid	64QAM	19.57	19.14
20	20175	50	#Max	64QAM	19.57	19.14
20	20175	100	#0	64QAM	19.48	19.05
20	20300	1	#0	QPSK	22.15	21.72
20	20300	1	#Mid	QPSK	22.63	22.20
20	20300	1	#Max	QPSK	22.35	21.92
20	20300	50	#0	QPSK	21.65	21.22
20	20300	50	#Mid	QPSK	21.65	21.22
20	20300	50	#Max	QPSK	21.68	21.25
20	20300	100	#0	QPSK	21.64	21.21
20	20300	1	#0	16QAM	21.48	21.05
20	20300	1	#Mid	16QAM	21.92	21.49
20	20300	1	#Max	16QAM	21.71	21.28
20	20300	50	#0	16QAM	20.63	20.20
20	20300	50	#Mid	16QAM	20.62	20.19
20	20300	50	#Max	16QAM	20.68	20.25
20	20300	100	#0	16QAM	20.62	20.19
20	20300	1	#0	64QAM	20.25	19.82
20	20300	1	#Mid	64QAM	20.79	20.36
20	20300	1	#Max	64QAM	20.62	20.19
20	20300	50	#0	64QAM	19.67	19.24
20	20300	50	#Mid	64QAM	19.68	19.25
20	20300	50	#Max	64QAM	19.72	19.29
20	20300	100	#0	64QAM	19.68	19.25
LTE Band5						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP
1.4	20407	1	#0	QPSK	22.42	15.45
1.4	20407	1	#Mid	QPSK	22.54	15.57
1.4	20407	1	#Max	QPSK	22.41	15.44
1.4	20407	3	#0	QPSK	22.54	15.57
1.4	20407	3	#Mid	QPSK	22.59	15.62
1.4	20407	3	#Max	QPSK	22.55	15.58
1.4	20407	6	#0	QPSK	21.54	14.57
1.4	20407	1	#0	16QAM	21.55	14.58
1.4	20407	1	#Mid	16QAM	21.69	14.72
1.4	20407	1	#Max	16QAM	21.47	14.50
1.4	20407	3	#0	16QAM	21.46	14.49

1.4	20407	3	#Mid	16QAM	21.46	14.49
1.4	20407	3	#Max	16QAM	21.43	14.46
1.4	20407	6	#0	16QAM	20.59	13.62
1.4	20407	1	#0	64QAM	20.54	13.57
1.4	20407	1	#Mid	64QAM	20.61	13.64
1.4	20407	1	#Max	64QAM	20.52	13.55
1.4	20407	3	#0	64QAM	20.56	13.59
1.4	20407	3	#Mid	64QAM	20.55	13.58
1.4	20407	3	#Max	64QAM	20.52	13.55
1.4	20407	6	#0	64QAM	19.48	12.51
1.4	20525	1	#0	QPSK	22.39	15.42
1.4	20525	1	#Mid	QPSK	22.50	15.53
1.4	20525	1	#Max	QPSK	22.39	15.42
1.4	20525	3	#0	QPSK	22.46	15.49
1.4	20525	3	#Mid	QPSK	22.50	15.53
1.4	20525	3	#Max	QPSK	22.44	15.47
1.4	20525	6	#0	QPSK	21.47	14.50
1.4	20525	1	#0	16QAM	21.68	14.71
1.4	20525	1	#Mid	16QAM	21.80	14.83
1.4	20525	1	#Max	16QAM	21.68	14.71
1.4	20525	3	#0	16QAM	21.52	14.55
1.4	20525	3	#Mid	16QAM	21.42	14.45
1.4	20525	3	#Max	16QAM	21.46	14.49
1.4	20525	6	#0	16QAM	20.58	13.61
1.4	20525	1	#0	64QAM	20.57	13.60
1.4	20525	1	#Mid	64QAM	20.70	13.73
1.4	20525	1	#Max	64QAM	20.63	13.66
1.4	20525	3	#0	64QAM	20.55	13.58
1.4	20525	3	#Mid	64QAM	20.54	13.57
1.4	20525	3	#Max	64QAM	20.57	13.60
1.4	20525	6	#0	64QAM	19.48	12.51
1.4	20643	1	#0	QPSK	22.35	15.38
1.4	20643	1	#Mid	QPSK	22.47	15.50
1.4	20643	1	#Max	QPSK	22.32	15.35
1.4	20643	3	#0	QPSK	22.45	15.48
1.4	20643	3	#Mid	QPSK	22.49	15.52
1.4	20643	3	#Max	QPSK	22.45	15.48
1.4	20643	6	#0	QPSK	21.47	14.50
1.4	20643	1	#0	16QAM	21.54	14.57
1.4	20643	1	#Mid	16QAM	21.65	14.68
1.4	20643	1	#Max	16QAM	21.52	14.55
1.4	20643	3	#0	16QAM	21.43	14.46
1.4	20643	3	#Mid	16QAM	21.46	14.49

1.4	20643	3	#Max	16QAM	21.41	14.44
1.4	20643	6	#0	16QAM	20.59	13.62
1.4	20643	1	#0	64QAM	20.61	13.64
1.4	20643	1	#Mid	64QAM	20.71	13.74
1.4	20643	1	#Max	64QAM	20.53	13.56
1.4	20643	3	#0	64QAM	20.59	13.62
1.4	20643	3	#Mid	64QAM	20.53	13.56
1.4	20643	3	#Max	64QAM	20.56	13.59
1.4	20643	6	#0	64QAM	19.48	12.51
3	20415	1	#0	QPSK	22.45	15.48
3	20415	1	#Mid	QPSK	22.42	15.45
3	20415	1	#Max	QPSK	22.46	15.49
3	20415	8	#0	QPSK	21.48	14.51
3	20415	8	#Mid	QPSK	21.51	14.54
3	20415	8	#Max	QPSK	21.48	14.51
3	20415	15	#0	QPSK	21.51	14.54
3	20415	1	#0	16QAM	21.63	14.66
3	20415	1	#Mid	16QAM	21.51	14.54
3	20415	1	#Max	16QAM	21.56	14.59
3	20415	8	#0	16QAM	20.47	13.50
3	20415	8	#Mid	16QAM	20.50	13.53
3	20415	8	#Max	16QAM	20.48	13.51
3	20415	15	#0	16QAM	20.46	13.49
3	20415	1	#0	64QAM	20.50	13.53
3	20415	1	#Mid	64QAM	20.53	13.56
3	20415	1	#Max	64QAM	20.51	13.54
3	20415	8	#0	64QAM	19.50	12.53
3	20415	8	#Mid	64QAM	19.55	12.58
3	20415	8	#Max	64QAM	19.47	12.50
3	20415	15	#0	64QAM	19.47	12.50
3	20525	1	#0	QPSK	22.38	15.41
3	20525	1	#Mid	QPSK	22.38	15.41
3	20525	1	#Max	QPSK	22.37	15.40
3	20525	8	#0	QPSK	21.42	14.45
3	20525	8	#Mid	QPSK	21.46	14.49
3	20525	8	#Max	QPSK	21.41	14.44
3	20525	15	#0	QPSK	21.44	14.47
3	20525	1	#0	16QAM	21.73	14.76
3	20525	1	#Mid	16QAM	21.60	14.63
3	20525	1	#Max	16QAM	21.67	14.70
3	20525	8	#0	16QAM	20.51	13.54
3	20525	8	#Mid	16QAM	20.53	13.56
3	20525	8	#Max	16QAM	20.50	13.53

3	20525	15	#0	16QAM	20.45	13.48
3	20525	1	#0	64QAM	20.60	13.63
3	20525	1	#Mid	64QAM	20.60	13.63
3	20525	1	#Max	64QAM	20.49	13.52
3	20525	8	#0	64QAM	19.51	12.54
3	20525	8	#Mid	64QAM	19.53	12.56
3	20525	8	#Max	64QAM	19.50	12.53
3	20525	15	#0	64QAM	19.45	12.48
3	20635	1	#0	QPSK	22.36	15.39
3	20635	1	#Mid	QPSK	22.39	15.42
3	20635	1	#Max	QPSK	22.36	15.39
3	20635	8	#0	QPSK	21.43	14.46
3	20635	8	#Mid	QPSK	21.48	14.51
3	20635	8	#Max	QPSK	21.45	14.48
3	20635	15	#0	QPSK	21.44	14.47
3	20635	1	#0	16QAM	21.58	14.61
3	20635	1	#Mid	16QAM	21.68	14.71
3	20635	1	#Max	16QAM	21.66	14.69
3	20635	8	#0	16QAM	20.51	13.54
3	20635	8	#Mid	16QAM	20.56	13.59
3	20635	8	#Max	16QAM	20.51	13.54
3	20635	15	#0	16QAM	20.48	13.51
3	20635	1	#0	64QAM	20.54	13.57
3	20635	1	#Mid	64QAM	20.60	13.63
3	20635	1	#Max	64QAM	20.52	13.55
3	20635	8	#0	64QAM	19.48	12.51
3	20635	8	#Mid	64QAM	19.55	12.58
3	20635	8	#Max	64QAM	19.52	12.55
3	20635	15	#0	64QAM	19.48	12.51
5	20425	1	#0	QPSK	22.35	15.38
5	20425	1	#Mid	QPSK	22.45	15.48
5	20425	1	#Max	QPSK	22.34	15.37
5	20425	12	#0	QPSK	21.44	14.47
5	20425	12	#Mid	QPSK	21.50	14.53
5	20425	12	#Max	QPSK	21.50	14.53
5	20425	25	#0	QPSK	21.49	14.52
5	20425	1	#0	16QAM	21.55	14.58
5	20425	1	#Mid	16QAM	21.65	14.68
5	20425	1	#Max	16QAM	21.48	14.51
5	20425	12	#0	16QAM	20.37	13.40
5	20425	12	#Mid	16QAM	20.47	13.50
5	20425	12	#Max	16QAM	20.44	13.47
5	20425	25	#0	16QAM	20.47	13.50

5	20425	1	#0	64QAM	20.44	13.47
5	20425	1	#Mid	64QAM	20.53	13.56
5	20425	1	#Max	64QAM	20.49	13.52
5	20425	12	#0	64QAM	19.41	12.44
5	20425	12	#Mid	64QAM	19.50	12.53
5	20425	12	#Max	64QAM	19.51	12.54
5	20425	25	#0	64QAM	19.48	12.51
5	20525	1	#0	QPSK	22.32	15.35
5	20525	1	#Mid	QPSK	22.44	15.47
5	20525	1	#Max	QPSK	22.26	15.29
5	20525	12	#0	QPSK	21.43	14.46
5	20525	12	#Mid	QPSK	21.50	14.53
5	20525	12	#Max	QPSK	21.42	14.45
5	20525	25	#0	QPSK	21.44	14.47
5	20525	1	#0	16QAM	21.61	14.64
5	20525	1	#Mid	16QAM	21.69	14.72
5	20525	1	#Max	16QAM	21.50	14.53
5	20525	12	#0	16QAM	20.42	13.45
5	20525	12	#Mid	16QAM	20.51	13.54
5	20525	12	#Max	16QAM	20.41	13.44
5	20525	25	#0	16QAM	20.46	13.49
5	20525	1	#0	64QAM	20.47	13.50
5	20525	1	#Mid	64QAM	20.60	13.63
5	20525	1	#Max	64QAM	20.39	13.42
5	20525	12	#0	64QAM	19.46	12.49
5	20525	12	#Mid	64QAM	19.52	12.55
5	20525	12	#Max	64QAM	19.48	12.51
5	20525	25	#0	64QAM	19.50	12.53
5	20625	1	#0	QPSK	22.23	15.26
5	20625	1	#Mid	QPSK	22.41	15.44
5	20625	1	#Max	QPSK	22.29	15.32
5	20625	12	#0	QPSK	21.41	14.44
5	20625	12	#Mid	QPSK	21.49	14.52
5	20625	12	#Max	QPSK	21.47	14.50
5	20625	25	#0	QPSK	21.47	14.50
5	20625	1	#0	16QAM	21.29	14.32
5	20625	1	#Mid	16QAM	21.66	14.69
5	20625	1	#Max	16QAM	21.55	14.58
5	20625	12	#0	16QAM	20.39	13.42
5	20625	12	#Mid	16QAM	20.48	13.51
5	20625	12	#Max	16QAM	20.47	13.50
5	20625	25	#0	16QAM	20.47	13.50
5	20625	1	#0	64QAM	20.37	13.40

5	20625	1	#Mid	64QAM	20.60	13.63
5	20625	1	#Max	64QAM	20.47	13.50
5	20625	12	#0	64QAM	19.44	12.47
5	20625	12	#Mid	64QAM	19.51	12.54
5	20625	12	#Max	64QAM	19.52	12.55
5	20625	25	#0	64QAM	19.47	12.50
10	20450	1	#0	QPSK	22.43	15.46
10	20450	1	#Mid	QPSK	22.55	15.58
10	20450	1	#Max	QPSK	22.37	15.40
10	20450	25	#0	QPSK	21.47	14.50
10	20450	25	#Mid	QPSK	21.55	14.58
10	20450	25	#Max	QPSK	21.51	14.54
10	20450	50	#0	QPSK	21.53	14.56
10	20450	1	#0	16QAM	21.59	14.62
10	20450	1	#Mid	16QAM	21.67	14.70
10	20450	1	#Max	16QAM	21.70	14.73
10	20450	25	#0	16QAM	20.43	13.46
10	20450	25	#Mid	16QAM	20.53	13.56
10	20450	25	#Max	16QAM	20.49	13.52
10	20450	50	#0	16QAM	20.48	13.51
10	20450	1	#0	64QAM	20.53	13.56
10	20450	1	#Mid	64QAM	20.65	13.68
10	20450	1	#Max	64QAM	20.56	13.59
10	20450	25	#0	64QAM	19.45	12.48
10	20450	25	#Mid	64QAM	19.55	12.58
10	20450	25	#Max	64QAM	19.54	12.57
10	20450	50	#0	64QAM	19.52	12.55
10	20525	1	#0	QPSK	22.39	15.42
10	20525	1	#Mid	QPSK	22.54	15.57
10	20525	1	#Max	QPSK	22.29	15.32
10	20525	25	#0	QPSK	21.49	14.52
10	20525	25	#Mid	QPSK	21.51	14.54
10	20525	25	#Max	QPSK	21.46	14.49
10	20525	50	#0	QPSK	21.49	14.52
10	20525	1	#0	16QAM	21.72	14.75
10	20525	1	#Mid	16QAM	21.84	14.87
10	20525	1	#Max	16QAM	21.36	14.39
10	20525	25	#0	16QAM	20.51	13.54
10	20525	25	#Mid	16QAM	20.52	13.55
10	20525	25	#Max	16QAM	20.43	13.46
10	20525	50	#0	16QAM	20.50	13.53
10	20525	1	#0	64QAM	20.59	13.62
10	20525	1	#Mid	64QAM	20.75	13.78

10	20525	1	#Max	64QAM	20.45	13.48
10	20525	25	#0	64QAM	19.55	12.58
10	20525	25	#Mid	64QAM	19.52	12.55
10	20525	25	#Max	64QAM	19.48	12.51
10	20525	50	#0	64QAM	19.53	12.56
10	20600	1	#0	QPSK	22.32	15.35
10	20600	1	#Mid	QPSK	22.42	15.45
10	20600	1	#Max	QPSK	22.35	15.38
10	20600	25	#0	QPSK	21.56	14.59
10	20600	25	#Mid	QPSK	21.50	14.53
10	20600	25	#Max	QPSK	21.47	14.50
10	20600	50	#0	QPSK	21.53	14.56
10	20600	1	#0	16QAM	21.48	14.51
10	20600	1	#Mid	16QAM	21.54	14.57
10	20600	1	#Max	16QAM	21.57	14.60
10	20600	25	#0	16QAM	20.45	13.48
10	20600	25	#Mid	16QAM	20.42	13.45
10	20600	25	#Max	16QAM	20.47	13.50
10	20600	50	#0	16QAM	20.45	13.48
10	20600	1	#0	64QAM	20.46	13.49
10	20600	1	#Mid	64QAM	20.48	13.51
10	20600	1	#Max	64QAM	20.61	13.64
10	20600	25	#0	64QAM	19.51	12.54
10	20600	25	#Mid	64QAM	19.47	12.50
10	20600	25	#Max	64QAM	19.46	12.49
10	20600	50	#0	64QAM	19.48	12.51
LTE Band7						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP
5	20775	1	#0	QPSK	22.10	21.87
5	20775	1	#Mid	QPSK	22.21	21.98
5	20775	1	#Max	QPSK	22.11	21.88
5	20775	12	#0	QPSK	21.30	21.07
5	20775	12	#Mid	QPSK	21.34	21.11
5	20775	12	#Max	QPSK	21.30	21.07
5	20775	25	#0	QPSK	21.31	21.08
5	20775	1	#0	16QAM	21.25	21.02
5	20775	1	#Mid	16QAM	21.40	21.17
5	20775	1	#Max	16QAM	21.24	21.01
5	20775	12	#0	16QAM	20.28	20.05
5	20775	12	#Mid	16QAM	20.32	20.09
5	20775	12	#Max	16QAM	20.30	20.07
5	20775	25	#0	16QAM	20.30	20.07
5	20775	1	#0	64QAM	20.27	20.04

5	20775	1	#Mid	64QAM	20.42	20.19
5	20775	1	#Max	64QAM	20.30	20.07
5	20775	12	#0	64QAM	19.32	19.09
5	20775	12	#Mid	64QAM	19.38	19.15
5	20775	12	#Max	64QAM	19.32	19.09
5	20775	25	#0	64QAM	19.37	19.14
5	21100	1	#0	QPSK	21.83	21.60
5	21100	1	#Mid	QPSK	21.93	21.70
5	21100	1	#Max	QPSK	21.80	21.57
5	21100	12	#0	QPSK	21.04	20.81
5	21100	12	#Mid	QPSK	21.08	20.85
5	21100	12	#Max	QPSK	21.03	20.80
5	21100	25	#0	QPSK	21.05	20.82
5	21100	1	#0	16QAM	21.03	20.80
5	21100	1	#Mid	16QAM	21.17	20.94
5	21100	1	#Max	16QAM	21.00	20.77
5	21100	12	#0	16QAM	20.04	19.81
5	21100	12	#Mid	16QAM	20.07	19.84
5	21100	12	#Max	16QAM	20.03	19.80
5	21100	25	#0	16QAM	20.05	19.82
5	21100	1	#0	64QAM	20.01	19.78
5	21100	1	#Mid	64QAM	20.21	19.98
5	21100	1	#Max	64QAM	20.04	19.81
5	21100	12	#0	64QAM	19.09	18.86
5	21100	12	#Mid	64QAM	19.10	18.87
5	21100	12	#Max	64QAM	19.05	18.82
5	21100	25	#0	64QAM	19.05	18.82
5	21425	1	#0	QPSK	21.83	21.60
5	21425	1	#Mid	QPSK	21.98	21.75
5	21425	1	#Max	QPSK	21.90	21.67
5	21425	12	#0	QPSK	21.14	20.91
5	21425	12	#Mid	QPSK	21.14	20.91
5	21425	12	#Max	QPSK	21.04	20.81
5	21425	25	#0	QPSK	21.12	20.89
5	21425	1	#0	16QAM	21.04	20.81
5	21425	1	#Mid	16QAM	21.09	20.86
5	21425	1	#Max	16QAM	21.09	20.86
5	21425	12	#0	16QAM	20.12	19.89
5	21425	12	#Mid	16QAM	20.14	19.91
5	21425	12	#Max	16QAM	20.04	19.81
5	21425	25	#0	16QAM	20.11	19.88
5	21425	1	#0	64QAM	20.07	19.84
5	21425	1	#Mid	64QAM	20.12	19.89

5	21425	1	#Max	64QAM	20.04	19.81
5	21425	12	#0	64QAM	19.18	18.95
5	21425	12	#Mid	64QAM	19.19	18.96
5	21425	12	#Max	64QAM	19.10	18.87
5	21425	25	#0	64QAM	19.13	18.90
10	20800	1	#0	QPSK	22.16	21.93
10	20800	1	#Mid	QPSK	22.32	22.09
10	20800	1	#Max	QPSK	22.20	21.97
10	20800	25	#0	QPSK	21.38	21.15
10	20800	25	#Mid	QPSK	21.39	21.16
10	20800	25	#Max	QPSK	21.41	21.18
10	20800	50	#0	QPSK	21.38	21.15
10	20800	1	#0	16QAM	21.30	21.07
10	20800	1	#Mid	16QAM	21.56	21.33
10	20800	1	#Max	16QAM	21.43	21.20
10	20800	25	#0	16QAM	20.39	20.16
10	20800	25	#Mid	16QAM	20.39	20.16
10	20800	25	#Max	16QAM	20.42	20.19
10	20800	50	#0	16QAM	20.41	20.18
10	20800	1	#0	64QAM	20.30	20.07
10	20800	1	#Mid	64QAM	20.60	20.37
10	20800	1	#Max	64QAM	20.42	20.19
10	20800	25	#0	64QAM	19.39	19.16
10	20800	25	#Mid	64QAM	19.39	19.16
10	20800	25	#Max	64QAM	19.42	19.19
10	20800	50	#0	64QAM	19.41	19.18
10	21100	1	#0	QPSK	21.94	21.71
10	21100	1	#Mid	QPSK	22.06	21.83
10	21100	1	#Max	QPSK	21.83	21.60
10	21100	25	#0	QPSK	21.14	20.91
10	21100	25	#Mid	QPSK	21.11	20.88
10	21100	25	#Max	QPSK	21.08	20.85
10	21100	50	#0	QPSK	21.13	20.90
10	21100	1	#0	16QAM	21.14	20.91
10	21100	1	#Mid	16QAM	21.25	21.02
10	21100	1	#Max	16QAM	21.13	20.90
10	21100	25	#0	16QAM	20.13	19.90
10	21100	25	#Mid	16QAM	20.10	19.87
10	21100	25	#Max	16QAM	20.07	19.84
10	21100	50	#0	16QAM	20.11	19.88
10	21100	1	#0	64QAM	20.16	19.93
10	21100	1	#Mid	64QAM	20.14	19.91
10	21100	1	#Max	64QAM	20.10	19.87

10	21100	25	#0	64QAM	19.14	18.91
10	21100	25	#Mid	64QAM	19.10	18.87
10	21100	25	#Max	64QAM	19.11	18.88
10	21100	50	#0	64QAM	19.13	18.90
10	21400	1	#0	QPSK	21.93	21.70
10	21400	1	#Mid	QPSK	22.04	21.81
10	21400	1	#Max	QPSK	21.98	21.75
10	21400	25	#0	QPSK	21.18	20.95
10	21400	25	#Mid	QPSK	21.15	20.92
10	21400	25	#Max	QPSK	21.11	20.88
10	21400	50	#0	QPSK	21.15	20.92
10	21400	1	#0	16QAM	21.23	21.00
10	21400	1	#Mid	16QAM	21.24	21.01
10	21400	1	#Max	16QAM	21.11	20.88
10	21400	25	#0	16QAM	20.18	19.95
10	21400	25	#Mid	16QAM	20.14	19.91
10	21400	25	#Max	16QAM	20.07	19.84
10	21400	50	#0	16QAM	20.14	19.91
10	21400	1	#0	64QAM	20.23	20.00
10	21400	1	#Mid	64QAM	20.25	20.02
10	21400	1	#Max	64QAM	20.10	19.87
10	21400	25	#0	64QAM	19.20	18.97
10	21400	25	#Mid	64QAM	19.16	18.93
10	21400	25	#Max	64QAM	19.12	18.89
10	21400	50	#0	64QAM	19.16	18.93
15	20825	1	#0	QPSK	22.07	21.84
15	20825	1	#Mid	QPSK	22.26	22.03
15	20825	1	#Max	QPSK	22.10	21.87
15	20825	36	#0	QPSK	21.36	21.13
15	20825	36	#Mid	QPSK	21.38	21.15
15	20825	36	#Max	QPSK	21.37	21.14
15	20825	75	#0	QPSK	21.35	21.12
15	20825	1	#0	16QAM	21.26	21.03
15	20825	1	#Mid	16QAM	21.51	21.28
15	20825	1	#Max	16QAM	21.38	21.15
15	20825	36	#0	16QAM	20.32	20.09
15	20825	36	#Mid	16QAM	20.36	20.13
15	20825	36	#Max	16QAM	20.35	20.12
15	20825	75	#0	16QAM	20.34	20.11
15	20825	1	#0	64QAM	20.26	20.03
15	20825	1	#Mid	64QAM	20.47	20.24
15	20825	1	#Max	64QAM	20.38	20.15
15	20825	36	#0	64QAM	19.35	19.12

15	20825	36	#Mid	64QAM	19.38	19.15
15	20825	36	#Max	64QAM	19.36	19.13
15	20825	75	#0	64QAM	19.36	19.13
15	21100	1	#0	QPSK	21.94	21.71
15	21100	1	#Mid	QPSK	21.94	21.71
15	21100	1	#Max	QPSK	21.78	21.55
15	21100	36	#0	QPSK	21.15	20.92
15	21100	36	#Mid	QPSK	21.11	20.88
15	21100	36	#Max	QPSK	21.06	20.83
15	21100	75	#0	QPSK	21.10	20.87
15	21100	1	#0	16QAM	21.17	20.94
15	21100	1	#Mid	16QAM	21.12	20.89
15	21100	1	#Max	16QAM	21.03	20.80
15	21100	36	#0	16QAM	20.11	19.88
15	21100	36	#Mid	16QAM	20.07	19.84
15	21100	36	#Max	16QAM	20.03	19.80
15	21100	75	#0	16QAM	20.07	19.84
15	21100	1	#0	64QAM	20.07	19.84
15	21100	1	#Mid	64QAM	20.17	19.94
15	21100	1	#Max	64QAM	20.03	19.80
15	21100	36	#0	64QAM	19.14	18.91
15	21100	36	#Mid	64QAM	19.12	18.89
15	21100	36	#Max	64QAM	19.07	18.84
15	21100	75	#0	64QAM	19.10	18.87
15	21375	1	#0	QPSK	21.95	21.72
15	21375	1	#Mid	QPSK	22.01	21.78
15	21375	1	#Max	QPSK	21.90	21.67
15	21375	36	#0	QPSK	21.13	20.90
15	21375	36	#Mid	QPSK	21.16	20.93
15	21375	36	#Max	QPSK	21.12	20.89
15	21375	75	#0	QPSK	21.10	20.87
15	21375	1	#0	16QAM	21.17	20.94
15	21375	1	#Mid	16QAM	21.22	20.99
15	21375	1	#Max	16QAM	21.11	20.88
15	21375	36	#0	16QAM	20.11	19.88
15	21375	36	#Mid	16QAM	20.12	19.89
15	21375	36	#Max	16QAM	20.10	19.87
15	21375	75	#0	16QAM	20.09	19.86
15	21375	1	#0	64QAM	20.09	19.86
15	21375	1	#Mid	64QAM	20.25	20.02
15	21375	1	#Max	64QAM	20.11	19.88
15	21375	36	#0	64QAM	19.14	18.91
15	21375	36	#Mid	64QAM	19.17	18.94

15	21375	36	#Max	64QAM	19.13	18.90
15	21375	75	#0	64QAM	19.09	18.86
20	20850	1	#0	QPSK	21.94	21.71
20	20850	1	#Mid	QPSK	22.38	22.15
20	20850	1	#Max	QPSK	21.88	21.65
20	20850	50	#0	QPSK	21.35	21.12
20	20850	50	#Mid	QPSK	21.37	21.14
20	20850	50	#Max	QPSK	21.36	21.13
20	20850	100	#0	QPSK	21.34	21.11
20	20850	1	#0	16QAM	21.19	20.96
20	20850	1	#Mid	16QAM	21.62	21.39
20	20850	1	#Max	16QAM	21.23	21.00
20	20850	50	#0	16QAM	20.35	20.12
20	20850	50	#Mid	16QAM	20.41	20.18
20	20850	50	#Max	16QAM	20.37	20.14
20	20850	100	#0	16QAM	20.35	20.12
20	20850	1	#0	64QAM	20.12	19.89
20	20850	1	#Mid	64QAM	20.65	20.42
20	20850	1	#Max	64QAM	20.10	19.87
20	20850	50	#0	64QAM	19.35	19.12
20	20850	50	#Mid	64QAM	19.42	19.19
20	20850	50	#Max	64QAM	19.37	19.14
20	20850	100	#0	64QAM	19.35	19.12
20	21100	1	#0	QPSK	21.76	21.53
20	21100	1	#Mid	QPSK	22.05	21.82
20	21100	1	#Max	QPSK	21.63	21.40
20	21100	50	#0	QPSK	21.15	20.92
20	21100	50	#Mid	QPSK	21.16	20.93
20	21100	50	#Max	QPSK	21.03	20.80
20	21100	100	#0	QPSK	21.09	20.86
20	21100	1	#0	16QAM	21.05	20.82
20	21100	1	#Mid	16QAM	21.19	20.96
20	21100	1	#Max	16QAM	20.87	20.64
20	21100	50	#0	16QAM	20.11	19.88
20	21100	50	#Mid	16QAM	20.13	19.90
20	21100	50	#Max	16QAM	20.01	19.78
20	21100	100	#0	16QAM	20.07	19.84
20	21100	1	#0	64QAM	20.00	19.77
20	21100	1	#Mid	64QAM	20.26	20.03
20	21100	1	#Max	64QAM	19.94	19.71
20	21100	50	#0	64QAM	19.17	18.94
20	21100	50	#Mid	64QAM	19.12	18.89
20	21100	50	#Max	64QAM	19.05	18.82

20	21100	100	#0	64QAM	19.12	18.89
20	21350	1	#0	QPSK	21.80	21.57
20	21350	1	#Mid	QPSK	22.09	21.86
20	21350	1	#Max	QPSK	21.74	21.51
20	21350	50	#0	QPSK	21.06	20.83
20	21350	50	#Mid	QPSK	21.16	20.93
20	21350	50	#Max	QPSK	21.03	20.80
20	21350	100	#0	QPSK	21.05	20.82
20	21350	1	#0	16QAM	21.03	20.80
20	21350	1	#Mid	16QAM	21.42	21.19
20	21350	1	#Max	16QAM	20.97	20.74
20	21350	50	#0	16QAM	20.11	19.88
20	21350	50	#Mid	16QAM	20.14	19.91
20	21350	50	#Max	16QAM	20.03	19.80
20	21350	100	#0	16QAM	20.04	19.81
20	21350	1	#0	64QAM	20.00	19.77
20	21350	1	#Mid	64QAM	20.32	20.09
20	21350	1	#Max	64QAM	19.94	19.71
20	21350	50	#0	64QAM	19.07	18.84
20	21350	50	#Mid	64QAM	19.12	18.89
20	21350	50	#Max	64QAM	19.05	18.82
20	21350	100	#0	64QAM	19.04	18.81
LTE Band12						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP
1.4	23017	1	#0	QPSK	22.25	12.78
1.4	23017	1	#Mid	QPSK	22.38	12.91
1.4	23017	1	#Max	QPSK	22.30	12.83
1.4	23017	3	#0	QPSK	22.35	12.88
1.4	23017	3	#Mid	QPSK	22.39	12.92
1.4	23017	3	#Max	QPSK	22.40	12.93
1.4	23017	6	#0	QPSK	21.38	11.91
1.4	23017	1	#0	16QAM	21.59	12.12
1.4	23017	1	#Mid	16QAM	21.65	12.18
1.4	23017	1	#Max	16QAM	21.59	12.12
1.4	23017	3	#0	16QAM	21.35	11.88
1.4	23017	3	#Mid	16QAM	21.36	11.89
1.4	23017	3	#Max	16QAM	21.43	11.96
1.4	23017	6	#0	16QAM	20.47	11.00
1.4	23017	1	#0	64QAM	20.54	11.07
1.4	23017	1	#Mid	64QAM	20.66	11.19
1.4	23017	1	#Max	64QAM	20.58	11.11
1.4	23017	3	#0	64QAM	20.54	11.07
1.4	23017	3	#Mid	64QAM	20.51	11.04

1.4	23017	3	#Max	64QAM	20.60	11.13
1.4	23017	6	#0	64QAM	19.42	9.95
1.4	23095	1	#0	QPSK	22.30	12.83
1.4	23095	1	#Mid	QPSK	22.47	13.00
1.4	23095	1	#Max	QPSK	22.31	12.84
1.4	23095	3	#0	QPSK	22.38	12.91
1.4	23095	3	#Mid	QPSK	22.42	12.95
1.4	23095	3	#Max	QPSK	22.38	12.91
1.4	23095	6	#0	QPSK	21.41	11.94
1.4	23095	1	#0	16QAM	21.66	12.19
1.4	23095	1	#Mid	16QAM	21.70	12.23
1.4	23095	1	#Max	16QAM	21.65	12.18
1.4	23095	3	#0	16QAM	21.37	11.90
1.4	23095	3	#Mid	16QAM	21.43	11.96
1.4	23095	3	#Max	16QAM	21.46	11.99
1.4	23095	6	#0	16QAM	20.60	11.13
1.4	23095	1	#0	64QAM	20.60	11.13
1.4	23095	1	#Mid	64QAM	20.63	11.16
1.4	23095	1	#Max	64QAM	20.58	11.11
1.4	23095	3	#0	64QAM	20.55	11.08
1.4	23095	3	#Mid	64QAM	20.55	11.08
1.4	23095	3	#Max	64QAM	20.49	11.02
1.4	23095	6	#0	64QAM	19.46	9.99
1.4	23173	1	#0	QPSK	22.29	12.82
1.4	23173	1	#Mid	QPSK	22.37	12.90
1.4	23173	1	#Max	QPSK	22.25	12.78
1.4	23173	3	#0	QPSK	22.37	12.90
1.4	23173	3	#Mid	QPSK	22.40	12.93
1.4	23173	3	#Max	QPSK	22.33	12.86
1.4	23173	6	#0	QPSK	21.43	11.96
1.4	23173	1	#0	16QAM	21.52	12.05
1.4	23173	1	#Mid	16QAM	21.55	12.08
1.4	23173	1	#Max	16QAM	21.52	12.05
1.4	23173	3	#0	16QAM	21.44	11.97
1.4	23173	3	#Mid	16QAM	21.37	11.90
1.4	23173	3	#Max	16QAM	21.39	11.92
1.4	23173	6	#0	16QAM	20.54	11.07
1.4	23173	1	#0	64QAM	20.47	11.00
1.4	23173	1	#Mid	64QAM	20.65	11.18
1.4	23173	1	#Max	64QAM	20.47	11.00
1.4	23173	3	#0	64QAM	20.49	11.02
1.4	23173	3	#Mid	64QAM	20.57	11.10
1.4	23173	3	#Max	64QAM	20.53	11.06

1.4	23173	6	#0	64QAM	19.39	9.92
3	23025	1	#0	QPSK	22.32	12.85
3	23025	1	#Mid	QPSK	22.33	12.86
3	23025	1	#Max	QPSK	22.34	12.87
3	23025	8	#0	QPSK	21.38	11.91
3	23025	8	#Mid	QPSK	21.41	11.94
3	23025	8	#Max	QPSK	21.39	11.92
3	23025	15	#0	QPSK	21.38	11.91
3	23025	1	#0	16QAM	21.57	12.10
3	23025	1	#Mid	16QAM	21.60	12.13
3	23025	1	#Max	16QAM	21.67	12.20
3	23025	8	#0	16QAM	20.45	10.98
3	23025	8	#Mid	16QAM	20.51	11.04
3	23025	8	#Max	16QAM	20.50	11.03
3	23025	15	#0	16QAM	20.41	10.94
3	23025	1	#0	64QAM	20.56	11.09
3	23025	1	#Mid	64QAM	20.56	11.09
3	23025	1	#Max	64QAM	20.59	11.12
3	23025	8	#0	64QAM	19.46	9.99
3	23025	8	#Mid	64QAM	19.50	10.03
3	23025	8	#Max	64QAM	19.48	10.01
3	23025	15	#0	64QAM	19.43	9.96
3	23095	1	#0	QPSK	22.35	12.88
3	23095	1	#Mid	QPSK	22.36	12.89
3	23095	1	#Max	QPSK	22.33	12.86
3	23095	8	#0	QPSK	21.43	11.96
3	23095	8	#Mid	QPSK	21.44	11.97
3	23095	8	#Max	QPSK	21.40	11.93
3	23095	15	#0	QPSK	21.39	11.92
3	23095	1	#0	16QAM	21.64	12.17
3	23095	1	#Mid	16QAM	21.62	12.15
3	23095	1	#Max	16QAM	21.73	12.26
3	23095	8	#0	16QAM	20.51	11.04
3	23095	8	#Mid	16QAM	20.53	11.06
3	23095	8	#Max	16QAM	20.48	11.01
3	23095	15	#0	16QAM	20.44	10.97
3	23095	1	#0	64QAM	20.62	11.15
3	23095	1	#Mid	64QAM	20.57	11.10
3	23095	1	#Max	64QAM	20.58	11.11
3	23095	8	#0	64QAM	19.52	10.05
3	23095	8	#Mid	64QAM	19.53	10.06
3	23095	8	#Max	64QAM	19.45	9.98
3	23095	15	#0	64QAM	19.45	9.98

3	23165	1	#0	QPSK	22.36	12.89
3	23165	1	#Mid	QPSK	22.34	12.87
3	23165	1	#Max	QPSK	22.30	12.83
3	23165	8	#0	QPSK	21.42	11.95
3	23165	8	#Mid	QPSK	21.43	11.96
3	23165	8	#Max	QPSK	21.39	11.92
3	23165	15	#0	QPSK	21.39	11.92
3	23165	1	#0	16QAM	21.61	12.14
3	23165	1	#Mid	16QAM	21.66	12.19
3	23165	1	#Max	16QAM	21.67	12.20
3	23165	8	#0	16QAM	20.50	11.03
3	23165	8	#Mid	16QAM	20.55	11.08
3	23165	8	#Max	16QAM	20.48	11.01
3	23165	15	#0	16QAM	20.43	10.96
3	23165	1	#0	64QAM	20.62	11.15
3	23165	1	#Mid	64QAM	20.56	11.09
3	23165	1	#Max	64QAM	20.58	11.11
3	23165	8	#0	64QAM	19.52	10.05
3	23165	8	#Mid	64QAM	19.48	10.01
3	23165	8	#Max	64QAM	19.45	9.98
3	23165	15	#0	64QAM	19.41	9.94
5	23035	1	#0	QPSK	22.20	12.73
5	23035	1	#Mid	QPSK	22.38	12.91
5	23035	1	#Max	QPSK	22.22	12.75
5	23035	12	#0	QPSK	21.35	11.88
5	23035	12	#Mid	QPSK	21.44	11.97
5	23035	12	#Max	QPSK	21.46	11.99
5	23035	25	#0	QPSK	21.42	11.95
5	23035	1	#0	16QAM	21.46	11.99
5	23035	1	#Mid	16QAM	21.74	12.27
5	23035	1	#Max	16QAM	21.62	12.15
5	23035	12	#0	16QAM	20.34	10.87
5	23035	12	#Mid	16QAM	20.46	10.99
5	23035	12	#Max	16QAM	20.50	11.03
5	23035	25	#0	16QAM	20.44	10.97
5	23035	1	#0	64QAM	20.42	10.95
5	23035	1	#Mid	64QAM	20.68	11.21
5	23035	1	#Max	64QAM	20.45	10.98
5	23035	12	#0	64QAM	19.44	9.97
5	23035	12	#Mid	64QAM	19.48	10.01
5	23035	12	#Max	64QAM	19.50	10.03
5	23035	25	#0	64QAM	19.48	10.01
5	23095	1	#0	QPSK	22.25	12.78

5	23095	1	#Mid	QPSK	22.38	12.91
5	23095	1	#Max	QPSK	22.22	12.75
5	23095	12	#0	QPSK	21.47	12.00
5	23095	12	#Mid	QPSK	21.47	12.00
5	23095	12	#Max	QPSK	21.36	11.89
5	23095	25	#0	QPSK	21.40	11.93
5	23095	1	#0	16QAM	21.64	12.17
5	23095	1	#Mid	16QAM	21.75	12.28
5	23095	1	#Max	16QAM	21.61	12.14
5	23095	12	#0	16QAM	20.48	11.01
5	23095	12	#Mid	16QAM	20.47	11.00
5	23095	12	#Max	16QAM	20.37	10.90
5	23095	25	#0	16QAM	20.46	10.99
5	23095	1	#0	64QAM	20.48	11.01
5	23095	1	#Mid	64QAM	20.69	11.22
5	23095	1	#Max	64QAM	20.47	11.00
5	23095	12	#0	64QAM	19.52	10.05
5	23095	12	#Mid	64QAM	19.52	10.05
5	23095	12	#Max	64QAM	19.41	9.94
5	23095	25	#0	64QAM	19.46	9.99
5	23155	1	#0	QPSK	22.27	12.80
5	23155	1	#Mid	QPSK	22.39	12.92
5	23155	1	#Max	QPSK	22.18	12.71
5	23155	12	#0	QPSK	21.45	11.98
5	23155	12	#Mid	QPSK	21.47	12.00
5	23155	12	#Max	QPSK	21.36	11.89
5	23155	25	#0	QPSK	21.42	11.95
5	23155	1	#0	16QAM	21.60	12.13
5	23155	1	#Mid	16QAM	21.69	12.22
5	23155	1	#Max	16QAM	21.58	12.11
5	23155	12	#0	16QAM	20.47	11.00
5	23155	12	#Mid	16QAM	20.48	11.01
5	23155	12	#Max	16QAM	20.41	10.94
5	23155	25	#0	16QAM	20.46	10.99
5	23155	1	#0	64QAM	20.53	11.06
5	23155	1	#Mid	64QAM	20.65	11.18
5	23155	1	#Max	64QAM	20.39	10.92
5	23155	12	#0	64QAM	19.50	10.03
5	23155	12	#Mid	64QAM	19.51	10.04
5	23155	12	#Max	64QAM	19.45	9.98
5	23155	25	#0	64QAM	19.46	9.99
10	23060	1	#0	QPSK	22.32	12.85
10	23060	1	#Mid	QPSK	22.42	12.95

10	23060	1	#Max	QPSK	22.33	12.86
10	23060	25	#0	QPSK	21.35	11.88
10	23060	25	#Mid	QPSK	21.45	11.98
10	23060	25	#Max	QPSK	21.39	11.92
10	23060	50	#0	QPSK	21.41	11.94
10	23060	1	#0	16QAM	21.51	12.04
10	23060	1	#Mid	16QAM	21.80	12.33
10	23060	1	#Max	16QAM	21.69	12.22
10	23060	25	#0	16QAM	20.39	10.92
10	23060	25	#Mid	16QAM	20.49	11.02
10	23060	25	#Max	16QAM	20.43	10.96
10	23060	50	#0	16QAM	20.44	10.97
10	23060	1	#0	64QAM	20.55	11.08
10	23060	1	#Mid	64QAM	20.70	11.23
10	23060	1	#Max	64QAM	20.60	11.13
10	23060	25	#0	64QAM	19.39	9.92
10	23060	25	#Mid	64QAM	19.50	10.03
10	23060	25	#Max	64QAM	19.45	9.98
10	23060	50	#0	64QAM	19.44	9.97
10	23095	1	#0	QPSK	22.37	12.90
10	23095	1	#Mid	QPSK	22.43	12.96
10	23095	1	#Max	QPSK	22.39	12.92
10	23095	25	#0	QPSK	21.47	12.00
10	23095	25	#Mid	QPSK	21.46	11.99
10	23095	25	#Max	QPSK	21.37	11.90
10	23095	50	#0	QPSK	21.45	11.98
10	23095	1	#0	16QAM	21.71	12.24
10	23095	1	#Mid	16QAM	21.67	12.20
10	23095	1	#Max	16QAM	21.66	12.19
10	23095	25	#0	16QAM	20.52	11.05
10	23095	25	#Mid	16QAM	20.49	11.02
10	23095	25	#Max	16QAM	20.43	10.96
10	23095	50	#0	16QAM	20.49	11.02
10	23095	1	#0	64QAM	20.63	11.16
10	23095	1	#Mid	64QAM	20.75	11.28
10	23095	1	#Max	64QAM	20.63	11.16
10	23095	25	#0	64QAM	19.53	10.06
10	23095	25	#Mid	64QAM	19.50	10.03
10	23095	25	#Max	64QAM	19.45	9.98
10	23095	50	#0	64QAM	19.48	10.01
10	23130	1	#0	QPSK	22.38	12.91
10	23130	1	#Mid	QPSK	22.47	13.00
10	23130	1	#Max	QPSK	22.31	12.84

10	23130	25	#0	QPSK	21.51	12.04
10	23130	25	#Mid	QPSK	21.48	12.01
10	23130	25	#Max	QPSK	21.45	11.98
10	23130	50	#0	QPSK	21.53	12.06
10	23130	1	#0	16QAM	21.73	12.26
10	23130	1	#Mid	16QAM	21.88	12.41
10	23130	1	#Max	16QAM	21.63	12.16
10	23130	25	#0	16QAM	20.57	11.10
10	23130	25	#Mid	16QAM	20.52	11.05
10	23130	25	#Max	16QAM	20.48	11.01
10	23130	50	#0	16QAM	20.56	11.09
10	23130	1	#0	64QAM	20.61	11.14
10	23130	1	#Mid	64QAM	20.70	11.23
10	23130	1	#Max	64QAM	20.57	11.10
10	23130	25	#0	64QAM	19.57	10.10
10	23130	25	#Mid	64QAM	19.53	10.06
10	23130	25	#Max	64QAM	19.50	10.03
10	23130	50	#0	64QAM	19.57	10.10
LTE Band17						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP
5	23755	1	#0	QPSK	22.30	12.83
5	23755	1	#Mid	QPSK	22.41	12.94
5	23755	1	#Max	QPSK	22.28	12.81
5	23755	12	#0	QPSK	21.47	12.00
5	23755	12	#Mid	QPSK	21.49	12.02
5	23755	12	#Max	QPSK	21.43	11.96
5	23755	25	#0	QPSK	21.44	11.97
5	23755	1	#0	16QAM	21.70	12.23
5	23755	1	#Mid	16QAM	21.71	12.24
5	23755	1	#Max	16QAM	21.69	12.22
5	23755	12	#0	16QAM	20.46	10.99
5	23755	12	#Mid	16QAM	20.52	11.05
5	23755	12	#Max	16QAM	20.45	10.98
5	23755	25	#0	16QAM	20.49	11.02
5	23755	1	#0	64QAM	20.53	11.06
5	23755	1	#Mid	64QAM	20.67	11.20
5	23755	1	#Max	64QAM	20.58	11.11
5	23755	12	#0	64QAM	19.53	10.06
5	23755	12	#Mid	64QAM	19.55	10.08
5	23755	12	#Max	64QAM	19.48	10.01
5	23755	25	#0	64QAM	19.50	10.03
5	23790	1	#0	QPSK	22.36	12.89
5	23790	1	#Mid	QPSK	22.45	12.98

5	23790	1	#Max	QPSK	22.37	12.90
5	23790	12	#0	QPSK	21.51	12.04
5	23790	12	#Mid	QPSK	21.55	12.08
5	23790	12	#Max	QPSK	21.43	11.96
5	23790	25	#0	QPSK	21.49	12.02
5	23790	1	#0	16QAM	21.61	12.14
5	23790	1	#Mid	16QAM	21.73	12.26
5	23790	1	#Max	16QAM	21.70	12.23
5	23790	12	#0	16QAM	20.54	11.07
5	23790	12	#Mid	16QAM	20.58	11.11
5	23790	12	#Max	16QAM	20.47	11.00
5	23790	25	#0	16QAM	20.54	11.07
5	23790	1	#0	64QAM	20.60	11.13
5	23790	1	#Mid	64QAM	20.72	11.25
5	23790	1	#Max	64QAM	20.67	11.20
5	23790	12	#0	64QAM	19.57	10.10
5	23790	12	#Mid	64QAM	19.64	10.17
5	23790	12	#Max	64QAM	19.50	10.03
5	23790	25	#0	64QAM	19.53	10.06
5	23825	1	#0	QPSK	22.34	12.87
5	23825	1	#Mid	QPSK	22.45	12.98
5	23825	1	#Max	QPSK	22.31	12.84
5	23825	12	#0	QPSK	21.52	12.05
5	23825	12	#Mid	QPSK	21.52	12.05
5	23825	12	#Max	QPSK	21.48	12.01
5	23825	25	#0	QPSK	21.49	12.02
5	23825	1	#0	16QAM	21.73	12.26
5	23825	1	#Mid	16QAM	21.84	12.37
5	23825	1	#Max	16QAM	21.58	12.11
5	23825	12	#0	16QAM	20.54	11.07
5	23825	12	#Mid	16QAM	20.54	11.07
5	23825	12	#Max	16QAM	20.50	11.03
5	23825	25	#0	16QAM	20.54	11.07
5	23825	1	#0	64QAM	20.57	11.10
5	23825	1	#Mid	64QAM	20.72	11.25
5	23825	1	#Max	64QAM	20.56	11.09
5	23825	12	#0	64QAM	19.57	10.10
5	23825	12	#Mid	64QAM	19.59	10.12
5	23825	12	#Max	64QAM	19.55	10.08
5	23825	25	#0	64QAM	19.53	10.06
10	23780	1	#0	QPSK	22.42	12.95
10	23780	1	#Mid	QPSK	22.54	13.07
10	23780	1	#Max	QPSK	22.44	12.97

10	23780	25	#0	QPSK	21.57	12.10
10	23780	25	#Mid	QPSK	21.56	12.09
10	23780	25	#Max	QPSK	21.44	11.97
10	23780	50	#0	QPSK	21.57	12.10
10	23780	1	#0	16QAM	21.68	12.21
10	23780	1	#Mid	16QAM	21.95	12.48
10	23780	1	#Max	16QAM	21.76	12.29
10	23780	25	#0	16QAM	20.64	11.17
10	23780	25	#Mid	16QAM	20.58	11.11
10	23780	25	#Max	16QAM	20.50	11.03
10	23780	50	#0	16QAM	20.59	11.12
10	23780	1	#0	64QAM	20.69	11.22
10	23780	1	#Mid	64QAM	20.80	11.33
10	23780	1	#Max	64QAM	20.70	11.23
10	23780	25	#0	64QAM	19.63	10.16
10	23780	25	#Mid	64QAM	19.59	10.12
10	23780	25	#Max	64QAM	19.52	10.05
10	23780	50	#0	64QAM	19.60	10.13
10	23790	1	#0	QPSK	22.46	12.99
10	23790	1	#Mid	QPSK	22.53	13.06
10	23790	1	#Max	QPSK	22.40	12.93
10	23790	25	#0	QPSK	21.63	12.16
10	23790	25	#Mid	QPSK	21.53	12.06
10	23790	25	#Max	QPSK	21.50	12.03
10	23790	50	#0	QPSK	21.57	12.10
10	23790	1	#0	16QAM	21.79	12.32
10	23790	1	#Mid	16QAM	21.86	12.39
10	23790	1	#Max	16QAM	21.67	12.20
10	23790	25	#0	16QAM	20.64	11.17
10	23790	25	#Mid	16QAM	20.57	11.10
10	23790	25	#Max	16QAM	20.54	11.07
10	23790	50	#0	16QAM	20.60	11.13
10	23790	1	#0	64QAM	20.70	11.23
10	23790	1	#Mid	64QAM	20.77	11.30
10	23790	1	#Max	64QAM	20.75	11.28
10	23790	25	#0	64QAM	19.68	10.21
10	23790	25	#Mid	64QAM	19.57	10.10
10	23790	25	#Max	64QAM	19.55	10.08
10	23790	50	#0	64QAM	19.61	10.14
10	23800	1	#0	QPSK	22.40	12.93
10	23800	1	#Mid	QPSK	22.56	13.09
10	23800	1	#Max	QPSK	22.40	12.93
10	23800	25	#0	QPSK	21.63	12.16

10	23800	25	#Mid	QPSK	21.56	12.09
10	23800	25	#Max	QPSK	21.50	12.03
10	23800	50	#0	QPSK	21.59	12.12
10	23800	1	#0	16QAM	21.76	12.29
10	23800	1	#Mid	16QAM	21.99	12.52
10	23800	1	#Max	16QAM	21.78	12.31
10	23800	25	#0	16QAM	20.69	11.22
10	23800	25	#Mid	16QAM	20.61	11.14
10	23800	25	#Max	16QAM	20.55	11.08
10	23800	50	#0	16QAM	20.64	11.17
10	23800	1	#0	64QAM	20.66	11.19
10	23800	1	#Mid	64QAM	20.84	11.37
10	23800	1	#Max	64QAM	20.67	11.20
10	23800	25	#0	64QAM	19.68	10.21
10	23800	25	#Mid	64QAM	19.60	10.13
10	23800	25	#Max	64QAM	19.55	10.08
10	23800	50	#0	64QAM	19.64	10.17
LTE Band25						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP
1.4	26047	1	#0	QPSK	22.40	21.76
1.4	26047	1	#Mid	QPSK	22.50	21.86
1.4	26047	1	#Max	QPSK	22.39	21.75
1.4	26047	3	#0	QPSK	22.48	21.84
1.4	26047	3	#Mid	QPSK	22.49	21.85
1.4	26047	3	#Max	QPSK	22.50	21.86
1.4	26047	6	#0	QPSK	21.49	20.85
1.4	26047	1	#0	16QAM	21.67	21.03
1.4	26047	1	#Mid	16QAM	21.75	21.11
1.4	26047	1	#Max	16QAM	21.64	21.00
1.4	26047	3	#0	16QAM	21.41	20.77
1.4	26047	3	#Mid	16QAM	21.46	20.82
1.4	26047	3	#Max	16QAM	21.44	20.80
1.4	26047	6	#0	16QAM	20.58	19.94
1.4	26047	1	#0	64QAM	20.60	19.96
1.4	26047	1	#Mid	64QAM	20.68	20.04
1.4	26047	1	#Max	64QAM	20.59	19.95
1.4	26047	3	#0	64QAM	20.56	19.92
1.4	26047	3	#Mid	64QAM	20.63	19.99
1.4	26047	3	#Max	64QAM	20.63	19.99
1.4	26047	6	#0	64QAM	19.48	18.84
1.4	26365	1	#0	QPSK	22.23	21.59
1.4	26365	1	#Mid	QPSK	22.38	21.74
1.4	26365	1	#Max	QPSK	22.23	21.59

1.4	26365	3	#0	QPSK	22.34	21.70
1.4	26365	3	#Mid	QPSK	22.36	21.72
1.4	26365	3	#Max	QPSK	22.31	21.67
1.4	26365	6	#0	QPSK	21.34	20.70
1.4	26365	1	#0	16QAM	21.48	20.84
1.4	26365	1	#Mid	16QAM	21.58	20.94
1.4	26365	1	#Max	16QAM	21.59	20.95
1.4	26365	3	#0	16QAM	21.35	20.71
1.4	26365	3	#Mid	16QAM	21.37	20.73
1.4	26365	3	#Max	16QAM	21.31	20.67
1.4	26365	6	#0	16QAM	20.46	19.82
1.4	26365	1	#0	64QAM	20.48	19.84
1.4	26365	1	#Mid	64QAM	20.46	19.82
1.4	26365	1	#Max	64QAM	20.39	19.75
1.4	26365	3	#0	64QAM	20.44	19.80
1.4	26365	3	#Mid	64QAM	20.46	19.82
1.4	26365	3	#Max	64QAM	20.41	19.77
1.4	26365	6	#0	64QAM	19.37	18.73
1.4	26683	1	#0	QPSK	22.02	21.38
1.4	26683	1	#Mid	QPSK	22.15	21.51
1.4	26683	1	#Max	QPSK	22.01	21.37
1.4	26683	3	#0	QPSK	22.10	21.46
1.4	26683	3	#Mid	QPSK	22.12	21.48
1.4	26683	3	#Max	QPSK	22.11	21.47
1.4	26683	6	#0	QPSK	21.10	20.46
1.4	26683	1	#0	16QAM	21.27	20.63
1.4	26683	1	#Mid	16QAM	21.43	20.79
1.4	26683	1	#Max	16QAM	21.31	20.67
1.4	26683	3	#0	16QAM	21.11	20.47
1.4	26683	3	#Mid	16QAM	21.16	20.52
1.4	26683	3	#Max	16QAM	21.13	20.49
1.4	26683	6	#0	16QAM	20.25	19.61
1.4	26683	1	#0	64QAM	20.25	19.61
1.4	26683	1	#Mid	64QAM	20.34	19.70
1.4	26683	1	#Max	64QAM	20.14	19.50
1.4	26683	3	#0	64QAM	20.23	19.59
1.4	26683	3	#Mid	64QAM	20.20	19.56
1.4	26683	3	#Max	64QAM	20.22	19.58
1.4	26683	6	#0	64QAM	19.16	18.52
3	26055	1	#0	QPSK	22.45	21.81
3	26055	1	#Mid	QPSK	22.46	21.82
3	26055	1	#Max	QPSK	22.48	21.84
3	26055	8	#0	QPSK	21.50	20.86

3	26055	8	#Mid	QPSK	21.52	20.88
3	26055	8	#Max	QPSK	21.48	20.84
3	26055	15	#0	QPSK	21.49	20.85
3	26055	1	#0	16QAM	21.76	21.12
3	26055	1	#Mid	16QAM	21.73	21.09
3	26055	1	#Max	16QAM	21.70	21.06
3	26055	8	#0	16QAM	20.54	19.90
3	26055	8	#Mid	16QAM	20.58	19.94
3	26055	8	#Max	16QAM	20.55	19.91
3	26055	15	#0	16QAM	20.51	19.87
3	26055	1	#0	64QAM	20.62	19.98
3	26055	1	#Mid	64QAM	20.67	20.03
3	26055	1	#Max	64QAM	20.69	20.05
3	26055	8	#0	64QAM	19.52	18.88
3	26055	8	#Mid	64QAM	19.60	18.96
3	26055	8	#Max	64QAM	19.55	18.91
3	26055	15	#0	64QAM	19.52	18.88
3	26365	1	#0	QPSK	22.33	21.69
3	26365	1	#Mid	QPSK	22.31	21.67
3	26365	1	#Max	QPSK	22.29	21.65
3	26365	8	#0	QPSK	21.37	20.73
3	26365	8	#Mid	QPSK	21.36	20.72
3	26365	8	#Max	QPSK	21.32	20.68
3	26365	15	#0	QPSK	21.35	20.71
3	26365	1	#0	16QAM	21.62	20.98
3	26365	1	#Mid	16QAM	21.54	20.90
3	26365	1	#Max	16QAM	21.63	20.99
3	26365	8	#0	16QAM	20.46	19.82
3	26365	8	#Mid	16QAM	20.45	19.81
3	26365	8	#Max	16QAM	20.39	19.75
3	26365	15	#0	16QAM	20.37	19.73
3	26365	1	#0	64QAM	20.54	19.90
3	26365	1	#Mid	64QAM	20.49	19.85
3	26365	1	#Max	64QAM	20.49	19.85
3	26365	8	#0	64QAM	19.46	18.82
3	26365	8	#Mid	64QAM	19.43	18.79
3	26365	8	#Max	64QAM	19.41	18.77
3	26365	15	#0	64QAM	19.39	18.75
3	26675	1	#0	QPSK	22.11	21.47
3	26675	1	#Mid	QPSK	22.12	21.48
3	26675	1	#Max	QPSK	22.07	21.43
3	26675	8	#0	QPSK	21.14	20.50
3	26675	8	#Mid	QPSK	21.14	20.50

3	26675	8	#Max	QPSK	21.09	20.45
3	26675	15	#0	QPSK	21.13	20.49
3	26675	1	#0	16QAM	21.38	20.74
3	26675	1	#Mid	16QAM	21.33	20.69
3	26675	1	#Max	16QAM	21.33	20.69
3	26675	8	#0	16QAM	20.22	19.58
3	26675	8	#Mid	16QAM	20.22	19.58
3	26675	8	#Max	16QAM	20.22	19.58
3	26675	15	#0	16QAM	20.16	19.52
3	26675	1	#0	64QAM	20.28	19.64
3	26675	1	#Mid	64QAM	20.32	19.68
3	26675	1	#Max	64QAM	20.32	19.68
3	26675	8	#0	64QAM	19.23	18.59
3	26675	8	#Mid	64QAM	19.23	18.59
3	26675	8	#Max	64QAM	19.17	18.53
3	26675	15	#0	64QAM	19.14	18.50
5	26065	1	#0	QPSK	22.33	21.69
5	26065	1	#Mid	QPSK	22.50	21.86
5	26065	1	#Max	QPSK	22.36	21.72
5	26065	12	#0	QPSK	21.48	20.84
5	26065	12	#Mid	QPSK	21.53	20.89
5	26065	12	#Max	QPSK	21.47	20.83
5	26065	25	#0	QPSK	21.47	20.83
5	26065	1	#0	16QAM	21.62	20.98
5	26065	1	#Mid	16QAM	21.76	21.12
5	26065	1	#Max	16QAM	21.69	21.05
5	26065	12	#0	16QAM	20.48	19.84
5	26065	12	#Mid	16QAM	20.53	19.89
5	26065	12	#Max	16QAM	20.48	19.84
5	26065	25	#0	16QAM	20.52	19.88
5	26065	1	#0	64QAM	20.54	19.90
5	26065	1	#Mid	64QAM	20.68	20.04
5	26065	1	#Max	64QAM	20.49	19.85
5	26065	12	#0	64QAM	19.52	18.88
5	26065	12	#Mid	64QAM	19.57	18.93
5	26065	12	#Max	64QAM	19.52	18.88
5	26065	25	#0	64QAM	19.52	18.88
5	26365	1	#0	QPSK	22.24	21.60
5	26365	1	#Mid	QPSK	22.35	21.71
5	26365	1	#Max	QPSK	22.15	21.51
5	26365	12	#0	QPSK	21.37	20.73
5	26365	12	#Mid	QPSK	21.39	20.75
5	26365	12	#Max	QPSK	21.31	20.67

5	26365	25	#0	QPSK	21.33	20.69
5	26365	1	#0	16QAM	21.48	20.84
5	26365	1	#Mid	16QAM	21.62	20.98
5	26365	1	#Max	16QAM	21.44	20.80
5	26365	12	#0	16QAM	20.37	19.73
5	26365	12	#Mid	16QAM	20.39	19.75
5	26365	12	#Max	16QAM	20.32	19.68
5	26365	25	#0	16QAM	20.39	19.75
5	26365	1	#0	64QAM	20.37	19.73
5	26365	1	#Mid	64QAM	20.60	19.96
5	26365	1	#Max	64QAM	20.32	19.68
5	26365	12	#0	64QAM	19.46	18.82
5	26365	12	#Mid	64QAM	19.45	18.81
5	26365	12	#Max	64QAM	19.38	18.74
5	26365	25	#0	64QAM	19.39	18.75
5	26665	1	#0	QPSK	21.97	21.33
5	26665	1	#Mid	QPSK	22.11	21.47
5	26665	1	#Max	QPSK	21.98	21.34
5	26665	12	#0	QPSK	21.19	20.55
5	26665	12	#Mid	QPSK	21.15	20.51
5	26665	12	#Max	QPSK	21.00	20.36
5	26665	25	#0	QPSK	21.10	20.46
5	26665	1	#0	16QAM	21.29	20.65
5	26665	1	#Mid	16QAM	21.25	20.61
5	26665	1	#Max	16QAM	21.25	20.61
5	26665	12	#0	16QAM	20.20	19.56
5	26665	12	#Mid	16QAM	20.18	19.54
5	26665	12	#Max	16QAM	20.00	19.36
5	26665	25	#0	16QAM	20.13	19.49
5	26665	1	#0	64QAM	20.14	19.50
5	26665	1	#Mid	64QAM	20.23	19.59
5	26665	1	#Max	64QAM	20.13	19.49
5	26665	12	#0	64QAM	19.25	18.61
5	26665	12	#Mid	64QAM	19.23	18.59
5	26665	12	#Max	64QAM	19.05	18.41
5	26665	25	#0	64QAM	19.14	18.50
10	26090	1	#0	QPSK	22.41	21.77
10	26090	1	#Mid	QPSK	22.52	21.88
10	26090	1	#Max	QPSK	22.44	21.80
10	26090	25	#0	QPSK	21.56	20.92
10	26090	25	#Mid	QPSK	21.54	20.90
10	26090	25	#Max	QPSK	21.47	20.83
10	26090	50	#0	QPSK	21.53	20.89

10	26090	1	#0	16QAM	21.66	21.02
10	26090	1	#Mid	16QAM	21.89	21.25
10	26090	1	#Max	16QAM	21.73	21.09
10	26090	25	#0	16QAM	20.58	19.94
10	26090	25	#Mid	16QAM	20.54	19.90
10	26090	25	#Max	16QAM	20.51	19.87
10	26090	50	#0	16QAM	20.54	19.90
10	26090	1	#0	64QAM	20.56	19.92
10	26090	1	#Mid	64QAM	20.72	20.08
10	26090	1	#Max	64QAM	20.67	20.03
10	26090	25	#0	64QAM	19.57	18.93
10	26090	25	#Mid	64QAM	19.55	18.91
10	26090	25	#Max	64QAM	19.53	18.89
10	26090	50	#0	64QAM	19.57	18.93
10	26365	1	#0	QPSK	22.38	21.74
10	26365	1	#Mid	QPSK	22.36	21.72
10	26365	1	#Max	QPSK	22.16	21.52
10	26365	25	#0	QPSK	21.45	20.81
10	26365	25	#Mid	QPSK	21.34	20.70
10	26365	25	#Max	QPSK	21.28	20.64
10	26365	50	#0	QPSK	21.39	20.75
10	26365	1	#0	16QAM	21.59	20.95
10	26365	1	#Mid	16QAM	21.74	21.10
10	26365	1	#Max	16QAM	21.42	20.78
10	26365	25	#0	16QAM	20.47	19.83
10	26365	25	#Mid	16QAM	20.39	19.75
10	26365	25	#Max	16QAM	20.30	19.66
10	26365	50	#0	16QAM	20.42	19.78
10	26365	1	#0	64QAM	20.60	19.96
10	26365	1	#Mid	64QAM	20.63	19.99
10	26365	1	#Max	64QAM	20.43	19.79
10	26365	25	#0	64QAM	19.52	18.88
10	26365	25	#Mid	64QAM	19.39	18.75
10	26365	25	#Max	64QAM	19.34	18.70
10	26365	50	#0	64QAM	19.44	18.80
10	26640	1	#0	QPSK	21.99	21.35
10	26640	1	#Mid	QPSK	22.19	21.55
10	26640	1	#Max	QPSK	22.03	21.39
10	26640	25	#0	QPSK	21.07	20.43
10	26640	25	#Mid	QPSK	21.10	20.46
10	26640	25	#Max	QPSK	20.93	20.29
10	26640	50	#0	QPSK	21.02	20.38
10	26640	1	#0	16QAM	21.27	20.63

10	26640	1	#Mid	16QAM	21.52	20.88
10	26640	1	#Max	16QAM	21.31	20.67
10	26640	25	#0	16QAM	20.12	19.48
10	26640	25	#Mid	16QAM	20.14	19.50
10	26640	25	#Max	16QAM	19.96	19.32
10	26640	50	#0	16QAM	20.05	19.41
10	26640	1	#0	64QAM	20.14	19.50
10	26640	1	#Mid	64QAM	20.39	19.75
10	26640	1	#Max	64QAM	20.18	19.54
10	26640	25	#0	64QAM	19.16	18.52
10	26640	25	#Mid	64QAM	19.16	18.52
10	26640	25	#Max	64QAM	18.98	18.34
10	26640	50	#0	64QAM	19.07	18.43
15	26115	1	#0	QPSK	22.33	21.69
15	26115	1	#Mid	QPSK	22.47	21.83
15	26115	1	#Max	QPSK	22.40	21.76
15	26115	36	#0	QPSK	21.58	20.94
15	26115	36	#Mid	QPSK	21.57	20.93
15	26115	36	#Max	QPSK	21.49	20.85
15	26115	75	#0	QPSK	21.55	20.91
15	26115	1	#0	16QAM	21.66	21.02
15	26115	1	#Mid	16QAM	21.79	21.15
15	26115	1	#Max	16QAM	21.71	21.07
15	26115	36	#0	16QAM	20.55	19.91
15	26115	36	#Mid	16QAM	20.56	19.92
15	26115	36	#Max	16QAM	20.50	19.86
15	26115	75	#0	16QAM	20.56	19.92
15	26115	1	#0	64QAM	20.60	19.96
15	26115	1	#Mid	64QAM	20.69	20.05
15	26115	1	#Max	64QAM	20.63	19.99
15	26115	36	#0	64QAM	19.60	18.96
15	26115	36	#Mid	64QAM	19.57	18.93
15	26115	36	#Max	64QAM	19.53	18.89
15	26115	75	#0	64QAM	19.57	18.93
15	26365	1	#0	QPSK	22.35	21.71
15	26365	1	#Mid	QPSK	22.33	21.69
15	26365	1	#Max	QPSK	22.09	21.45
15	26365	36	#0	QPSK	21.48	20.84
15	26365	36	#Mid	QPSK	21.37	20.73
15	26365	36	#Max	QPSK	21.28	20.64
15	26365	75	#0	QPSK	21.36	20.72
15	26365	1	#0	16QAM	21.61	20.97
15	26365	1	#Mid	16QAM	21.60	20.96

15	26365	1	#Max	16QAM	21.43	20.79
15	26365	36	#0	16QAM	20.45	19.81
15	26365	36	#Mid	16QAM	20.38	19.74
15	26365	36	#Max	16QAM	20.26	19.62
15	26365	75	#0	16QAM	20.36	19.72
15	26365	1	#0	64QAM	20.55	19.91
15	26365	1	#Mid	64QAM	20.57	19.93
15	26365	1	#Max	64QAM	20.34	19.70
15	26365	36	#0	64QAM	19.52	18.88
15	26365	36	#Mid	64QAM	19.41	18.77
15	26365	36	#Max	64QAM	19.34	18.70
15	26365	75	#0	64QAM	19.38	18.74
15	26615	1	#0	QPSK	21.88	21.24
15	26615	1	#Mid	QPSK	22.00	21.36
15	26615	1	#Max	QPSK	21.90	21.26
15	26615	36	#0	QPSK	21.02	20.38
15	26615	36	#Mid	QPSK	21.04	20.40
15	26615	36	#Max	QPSK	20.93	20.29
15	26615	75	#0	QPSK	20.96	20.32
15	26615	1	#0	16QAM	21.24	20.60
15	26615	1	#Mid	16QAM	21.35	20.71
15	26615	1	#Max	16QAM	21.21	20.57
15	26615	36	#0	16QAM	20.01	19.37
15	26615	36	#Mid	16QAM	20.02	19.38
15	26615	36	#Max	16QAM	19.92	19.28
15	26615	75	#0	16QAM	19.98	19.34
15	26615	1	#0	64QAM	20.07	19.43
15	26615	1	#Mid	64QAM	20.26	19.62
15	26615	1	#Max	64QAM	20.05	19.41
15	26615	36	#0	64QAM	19.07	18.43
15	26615	36	#Mid	64QAM	19.07	18.43
15	26615	36	#Max	64QAM	18.98	18.34
15	26615	75	#0	64QAM	19.03	18.39
20	26140	1	#0	QPSK	22.19	21.55
20	26140	1	#Mid	QPSK	22.56	21.92
20	26140	1	#Max	QPSK	22.21	21.57
20	26140	50	#0	QPSK	21.61	20.97
20	26140	50	#Mid	QPSK	21.54	20.90
20	26140	50	#Max	QPSK	21.54	20.90
20	26140	100	#0	QPSK	21.57	20.93
20	26140	1	#0	16QAM	21.44	20.80
20	26140	1	#Mid	16QAM	21.94	21.30
20	26140	1	#Max	16QAM	21.60	20.96

20	26140	50	#0	16QAM	20.66	20.02
20	26140	50	#Mid	16QAM	20.57	19.93
20	26140	50	#Max	16QAM	20.57	19.93
20	26140	100	#0	16QAM	20.58	19.94
20	26140	1	#0	64QAM	20.38	19.74
20	26140	1	#Mid	64QAM	20.80	20.16
20	26140	1	#Max	64QAM	20.38	19.74
20	26140	50	#0	64QAM	19.66	19.02
20	26140	50	#Mid	64QAM	19.54	18.90
20	26140	50	#Max	64QAM	19.60	18.96
20	26140	100	#0	64QAM	19.59	18.95
20	26365	1	#0	QPSK	22.21	21.57
20	26365	1	#Mid	QPSK	22.38	21.74
20	26365	1	#Max	QPSK	21.86	21.22
20	26365	50	#0	QPSK	21.43	20.79
20	26365	50	#Mid	QPSK	21.40	20.76
20	26365	50	#Max	QPSK	21.21	20.57
20	26365	100	#0	QPSK	21.33	20.69
20	26365	1	#0	16QAM	21.57	20.93
20	26365	1	#Mid	16QAM	21.76	21.12
20	26365	1	#Max	16QAM	21.12	20.48
20	26365	50	#0	16QAM	20.46	19.82
20	26365	50	#Mid	16QAM	20.41	19.77
20	26365	50	#Max	16QAM	20.22	19.58
20	26365	100	#0	16QAM	20.35	19.71
20	26365	1	#0	64QAM	20.48	19.84
20	26365	1	#Mid	64QAM	20.60	19.96
20	26365	1	#Max	64QAM	20.03	19.39
20	26365	50	#0	64QAM	19.48	18.84
20	26365	50	#Mid	64QAM	19.45	18.81
20	26365	50	#Max	64QAM	19.25	18.61
20	26365	100	#0	64QAM	19.37	18.73
20	26590	1	#0	QPSK	21.79	21.15
20	26590	1	#Mid	QPSK	22.08	21.44
20	26590	1	#Max	QPSK	21.71	21.07
20	26590	50	#0	QPSK	21.01	20.37
20	26590	50	#Mid	QPSK	21.03	20.39
20	26590	50	#Max	QPSK	20.87	20.23
20	26590	100	#0	QPSK	20.94	20.30
20	26590	1	#0	16QAM	21.08	20.44
20	26590	1	#Mid	16QAM	21.37	20.73
20	26590	1	#Max	16QAM	21.04	20.40
20	26590	50	#0	16QAM	20.05	19.41

20	26590	50	#Mid	16QAM	20.05	19.41
20	26590	50	#Max	16QAM	19.89	19.25
20	26590	100	#0	16QAM	19.98	19.34
20	26590	1	#0	64QAM	20.05	19.41
20	26590	1	#Mid	64QAM	20.27	19.63
20	26590	1	#Max	64QAM	19.93	19.29
20	26590	50	#0	64QAM	19.10	18.46
20	26590	50	#Mid	64QAM	19.09	18.45
20	26590	50	#Max	64QAM	18.96	18.32
20	26590	100	#0	64QAM	19.02	18.38
LTE Band 26 (814 ~ 824)						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP
1.4	26697	1	#0	QPSK	22.43	15.46
1.4	26697	1	#Mid	QPSK	22.55	15.58
1.4	26697	1	#Max	QPSK	22.43	15.46
1.4	26697	3	#0	QPSK	22.53	15.56
1.4	26697	3	#Mid	QPSK	22.56	15.59
1.4	26697	3	#Max	QPSK	22.55	15.58
1.4	26697	6	#0	QPSK	21.54	14.57
1.4	26697	1	#0	16QAM	21.68	14.71
1.4	26697	1	#Mid	16QAM	21.83	14.86
1.4	26697	1	#Max	16QAM	21.70	14.73
1.4	26697	3	#0	16QAM	21.54	14.57
1.4	26697	3	#Mid	16QAM	21.51	14.54
1.4	26697	3	#Max	16QAM	21.54	14.57
1.4	26697	6	#0	16QAM	20.65	13.68
1.4	26697	1	#0	64QAM	20.69	13.72
1.4	26697	1	#Mid	64QAM	20.81	13.84
1.4	26697	1	#Max	64QAM	20.64	13.67
1.4	26697	3	#0	64QAM	20.69	13.72
1.4	26697	3	#Mid	64QAM	20.70	13.73
1.4	26697	3	#Max	64QAM	20.65	13.68
1.4	26697	6	#0	64QAM	19.60	12.63
1.4	26740	1	#0	QPSK	22.43	15.46
1.4	26740	1	#Mid	QPSK	22.55	15.58
1.4	26740	1	#Max	QPSK	22.41	15.44
1.4	26740	3	#0	QPSK	22.52	15.55
1.4	26740	3	#Mid	QPSK	22.55	15.58
1.4	26740	3	#Max	QPSK	22.53	15.56
1.4	26740	6	#0	QPSK	21.53	14.56
1.4	26740	1	#0	16QAM	21.72	14.75
1.4	26740	1	#Mid	16QAM	21.84	14.87
1.4	26740	1	#Max	16QAM	21.75	14.78

1.4	26740	3	#0	16QAM	21.56	14.59
1.4	26740	3	#Mid	16QAM	21.51	14.54
1.4	26740	3	#Max	16QAM	21.52	14.55
1.4	26740	6	#0	16QAM	20.65	13.68
1.4	26740	1	#0	64QAM	20.66	13.69
1.4	26740	1	#Mid	64QAM	20.71	13.74
1.4	26740	1	#Max	64QAM	20.62	13.65
1.4	26740	3	#0	64QAM	20.65	13.68
1.4	26740	3	#Mid	64QAM	20.65	13.68
1.4	26740	3	#Max	64QAM	20.60	13.63
1.4	26740	6	#0	64QAM	19.57	12.60
1.4	26783	1	#0	QPSK	22.40	15.43
1.4	26783	1	#Mid	QPSK	22.48	15.51
1.4	26783	1	#Max	QPSK	22.34	15.37
1.4	26783	3	#0	QPSK	22.47	15.50
1.4	26783	3	#Mid	QPSK	22.52	15.55
1.4	26783	3	#Max	QPSK	22.47	15.50
1.4	26783	6	#0	QPSK	21.53	14.56
1.4	26783	1	#0	16QAM	21.58	14.61
1.4	26783	1	#Mid	16QAM	21.66	14.69
1.4	26783	1	#Max	16QAM	21.51	14.54
1.4	26783	3	#0	16QAM	21.42	14.45
1.4	26783	3	#Mid	16QAM	21.42	14.45
1.4	26783	3	#Max	16QAM	21.42	14.45
1.4	26783	6	#0	16QAM	20.53	13.56
1.4	26783	1	#0	64QAM	20.55	13.58
1.4	26783	1	#Mid	64QAM	20.61	13.64
1.4	26783	1	#Max	64QAM	20.59	13.62
1.4	26783	3	#0	64QAM	20.53	13.56
1.4	26783	3	#Mid	64QAM	20.56	13.59
1.4	26783	3	#Max	64QAM	20.49	13.52
1.4	26783	6	#0	64QAM	19.51	12.54
3	26705	1	#0	QPSK	22.47	15.50
3	26705	1	#Mid	QPSK	22.47	15.50
3	26705	1	#Max	QPSK	22.47	15.50
3	26705	8	#0	QPSK	21.49	14.52
3	26705	8	#Mid	QPSK	21.53	14.56
3	26705	8	#Max	QPSK	21.50	14.53
3	26705	15	#0	QPSK	21.50	14.53
3	26705	1	#0	16QAM	21.72	14.75
3	26705	1	#Mid	16QAM	21.68	14.71
3	26705	1	#Max	16QAM	21.78	14.81
3	26705	8	#0	16QAM	20.59	13.62

3	26705	8	#Mid	16QAM	20.62	13.65
3	26705	8	#Max	16QAM	20.59	13.62
3	26705	15	#0	16QAM	20.53	13.56
3	26705	1	#0	64QAM	20.70	13.73
3	26705	1	#Mid	64QAM	20.68	13.71
3	26705	1	#Max	64QAM	20.69	13.72
3	26705	8	#0	64QAM	19.57	12.60
3	26705	8	#Mid	64QAM	19.59	12.62
3	26705	8	#Max	64QAM	19.57	12.60
3	26705	15	#0	64QAM	19.55	12.58
3	26740	1	#0	QPSK	22.48	15.51
3	26740	1	#Mid	QPSK	22.45	15.48
3	26740	1	#Max	QPSK	22.44	15.47
3	26740	8	#0	QPSK	21.47	14.50
3	26740	8	#Mid	QPSK	21.50	14.53
3	26740	8	#Max	QPSK	21.47	14.50
3	26740	15	#0	QPSK	21.49	14.52
3	26740	1	#0	16QAM	21.82	14.85
3	26740	1	#Mid	16QAM	21.65	14.68
3	26740	1	#Max	16QAM	21.74	14.77
3	26740	8	#0	16QAM	20.58	13.61
3	26740	8	#Mid	16QAM	20.60	13.63
3	26740	8	#Max	16QAM	20.55	13.58
3	26740	15	#0	16QAM	20.51	13.54
3	26740	1	#0	64QAM	20.72	13.75
3	26740	1	#Mid	64QAM	20.68	13.71
3	26740	1	#Max	64QAM	20.69	13.72
3	26740	8	#0	64QAM	19.55	12.58
3	26740	8	#Mid	64QAM	19.57	12.60
3	26740	8	#Max	64QAM	19.55	12.58
3	26740	15	#0	64QAM	19.53	12.56
3	26775	1	#0	QPSK	22.43	15.46
3	26775	1	#Mid	QPSK	22.39	15.42
3	26775	1	#Max	QPSK	22.38	15.41
3	26775	8	#0	QPSK	21.45	14.48
3	26775	8	#Mid	QPSK	21.46	14.49
3	26775	8	#Max	QPSK	21.42	14.45
3	26775	15	#0	QPSK	21.48	14.51
3	26775	1	#0	16QAM	21.72	14.75
3	26775	1	#Mid	16QAM	21.57	14.60
3	26775	1	#Max	16QAM	21.52	14.55
3	26775	8	#0	16QAM	20.52	13.55
3	26775	8	#Mid	16QAM	20.52	13.55

3	26775	8	#Max	16QAM	20.46	13.49
3	26775	15	#0	16QAM	20.46	13.49
3	26775	1	#0	64QAM	20.56	13.59
3	26775	1	#Mid	64QAM	20.57	13.60
3	26775	1	#Max	64QAM	20.53	13.56
3	26775	8	#0	64QAM	19.52	12.55
3	26775	8	#Mid	64QAM	19.53	12.56
3	26775	8	#Max	64QAM	19.46	12.49
3	26775	15	#0	64QAM	19.48	12.51
5	26715	1	#0	QPSK	22.38	15.41
5	26715	1	#Mid	QPSK	22.46	15.49
5	26715	1	#Max	QPSK	22.35	15.38
5	26715	12	#0	QPSK	21.46	14.49
5	26715	12	#Mid	QPSK	21.56	14.59
5	26715	12	#Max	QPSK	21.48	14.51
5	26715	25	#0	QPSK	21.48	14.51
5	26715	1	#0	16QAM	21.68	14.71
5	26715	1	#Mid	16QAM	21.68	14.71
5	26715	1	#Max	16QAM	21.66	14.69
5	26715	12	#0	16QAM	20.47	13.50
5	26715	12	#Mid	16QAM	20.55	13.58
5	26715	12	#Max	16QAM	20.46	13.49
5	26715	25	#0	16QAM	20.50	13.53
5	26715	1	#0	64QAM	20.59	13.62
5	26715	1	#Mid	64QAM	20.67	13.70
5	26715	1	#Max	64QAM	20.59	13.62
5	26715	12	#0	64QAM	19.52	12.55
5	26715	12	#Mid	64QAM	19.60	12.63
5	26715	12	#Max	64QAM	19.52	12.55
5	26715	25	#0	64QAM	19.53	12.56
5	26740	1	#0	QPSK	22.37	15.40
5	26740	1	#Mid	QPSK	22.48	15.51
5	26740	1	#Max	QPSK	22.33	15.36
5	26740	12	#0	QPSK	21.48	14.51
5	26740	12	#Mid	QPSK	21.54	14.57
5	26740	12	#Max	QPSK	21.47	14.50
5	26740	25	#0	QPSK	21.51	14.54
5	26740	1	#0	16QAM	21.61	14.64
5	26740	1	#Mid	16QAM	21.69	14.72
5	26740	1	#Max	16QAM	21.61	14.64
5	26740	12	#0	16QAM	20.51	13.54
5	26740	12	#Mid	16QAM	20.54	13.57
5	26740	12	#Max	16QAM	20.49	13.52

5	26740	25	#0	16QAM	20.53	13.56
5	26740	1	#0	64QAM	20.59	13.62
5	26740	1	#Mid	64QAM	20.63	13.66
5	26740	1	#Max	64QAM	20.52	13.55
5	26740	12	#0	64QAM	19.54	12.57
5	26740	12	#Mid	64QAM	19.61	12.64
5	26740	12	#Max	64QAM	19.52	12.55
5	26740	25	#0	64QAM	19.53	12.56
5	26765	1	#0	QPSK	22.37	15.40
5	26765	1	#Mid	QPSK	22.43	15.46
5	26765	1	#Max	QPSK	22.29	15.32
5	26765	12	#0	QPSK	21.50	14.53
5	26765	12	#Mid	QPSK	21.52	14.55
5	26765	12	#Max	QPSK	21.38	14.41
5	26765	25	#0	QPSK	21.47	14.50
5	26765	1	#0	16QAM	21.69	14.72
5	26765	1	#Mid	16QAM	21.61	14.64
5	26765	1	#Max	16QAM	21.46	14.49
5	26765	12	#0	16QAM	20.46	13.49
5	26765	12	#Mid	16QAM	20.48	13.51
5	26765	12	#Max	16QAM	20.39	13.42
5	26765	25	#0	16QAM	20.44	13.47
5	26765	1	#0	64QAM	20.50	13.53
5	26765	1	#Mid	64QAM	20.64	13.67
5	26765	1	#Max	64QAM	20.39	13.42
5	26765	12	#0	64QAM	19.51	12.54
5	26765	12	#Mid	64QAM	19.57	12.60
5	26765	12	#Max	64QAM	19.43	12.46
5	26765	25	#0	64QAM	19.48	12.51
10	26740	1	#0	QPSK	22.49	15.52
10	26740	1	#Mid	QPSK	22.56	15.59
10	26740	1	#Max	QPSK	22.38	15.41
10	26740	25	#0	QPSK	21.51	14.54
10	26740	25	#Mid	QPSK	21.55	14.58
10	26740	25	#Max	QPSK	21.44	14.47
10	26740	50	#0	QPSK	21.51	14.54
10	26740	1	#0	16QAM	21.80	14.83
10	26740	1	#Mid	16QAM	21.89	14.92
10	26740	1	#Max	16QAM	21.62	14.65
10	26740	25	#0	16QAM	20.55	13.58
10	26740	25	#Mid	16QAM	20.56	13.59
10	26740	25	#Max	16QAM	20.45	13.48
10	26740	50	#0	16QAM	20.51	13.54

10	26740	1	#0	64QAM	20.63	13.66
10	26740	1	#Mid	64QAM	20.68	13.71
10	26740	1	#Max	64QAM	20.55	13.58
10	26740	25	#0	64QAM	19.57	12.60
10	26740	25	#Mid	64QAM	19.57	12.60
10	26740	25	#Max	64QAM	19.46	12.49
10	26740	50	#0	64QAM	19.54	12.57
LTE Band 26 (824-849)						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP
1.4	26797	1	#0	QPSK	21.98	15.01
1.4	26797	1	#Mid	QPSK	22.19	15.22
1.4	26797	1	#Max	QPSK	22.06	15.09
1.4	26797	3	#0	QPSK	22.09	15.12
1.4	26797	3	#Mid	QPSK	22.19	15.22
1.4	26797	3	#Max	QPSK	22.16	15.19
1.4	26797	6	#0	QPSK	21.16	14.19
1.4	26797	1	#0	16QAM	21.13	14.16
1.4	26797	1	#Mid	16QAM	21.20	14.23
1.4	26797	1	#Max	16QAM	21.04	14.07
1.4	26797	3	#0	16QAM	20.95	13.98
1.4	26797	3	#Mid	16QAM	21.07	14.10
1.4	26797	3	#Max	16QAM	21.03	14.06
1.4	26797	6	#0	16QAM	20.14	13.17
1.4	26797	1	#0	64QAM	20.05	13.08
1.4	26797	1	#Mid	64QAM	20.19	13.22
1.4	26797	1	#Max	64QAM	20.05	13.08
1.4	26797	3	#0	64QAM	20.07	13.10
1.4	26797	3	#Mid	64QAM	20.17	13.20
1.4	26797	3	#Max	64QAM	20.14	13.17
1.4	26797	6	#0	64QAM	19.11	12.14
1.4	26915	1	#0	QPSK	23.79	16.82
1.4	26915	1	#Mid	QPSK	23.91	16.94
1.4	26915	1	#Max	QPSK	23.83	16.86
1.4	26915	3	#0	QPSK	23.89	16.92
1.4	26915	3	#Mid	QPSK	23.97	17.00
1.4	26915	3	#Max	QPSK	23.93	16.96
1.4	26915	6	#0	QPSK	22.94	15.97
1.4	26915	1	#0	16QAM	23.08	16.11
1.4	26915	1	#Mid	16QAM	23.13	16.16
1.4	26915	1	#Max	16QAM	22.95	15.98
1.4	26915	3	#0	16QAM	22.92	15.95
1.4	26915	3	#Mid	16QAM	22.97	16.00
1.4	26915	3	#Max	16QAM	22.84	15.87

1.4	26915	6	#0	16QAM	22.03	15.06
1.4	26915	1	#0	64QAM	22.02	15.05
1.4	26915	1	#Mid	64QAM	22.10	15.13
1.4	26915	1	#Max	64QAM	22.03	15.06
1.4	26915	3	#0	64QAM	22.01	15.04
1.4	26915	3	#Mid	64QAM	22.03	15.06
1.4	26915	3	#Max	64QAM	22.01	15.04
1.4	26915	6	#0	64QAM	20.99	14.02
1.4	27033	1	#0	QPSK	23.62	16.65
1.4	27033	1	#Mid	QPSK	23.58	16.61
1.4	27033	1	#Max	QPSK	23.43	16.46
1.4	27033	3	#0	QPSK	23.65	16.68
1.4	27033	3	#Mid	QPSK	23.64	16.67
1.4	27033	3	#Max	QPSK	23.56	16.59
1.4	27033	6	#0	QPSK	22.66	15.69
1.4	27033	1	#0	16QAM	22.82	15.85
1.4	27033	1	#Mid	16QAM	22.70	15.73
1.4	27033	1	#Max	16QAM	22.50	15.53
1.4	27033	3	#0	16QAM	22.64	15.67
1.4	27033	3	#Mid	16QAM	22.51	15.54
1.4	27033	3	#Max	16QAM	22.39	15.42
1.4	27033	6	#0	16QAM	21.73	14.76
1.4	27033	1	#0	64QAM	21.82	14.85
1.4	27033	1	#Mid	64QAM	21.76	14.79
1.4	27033	1	#Max	64QAM	21.47	14.50
1.4	27033	3	#0	64QAM	21.81	14.84
1.4	27033	3	#Mid	64QAM	21.70	14.73
1.4	27033	3	#Max	64QAM	21.57	14.60
1.4	27033	6	#0	64QAM	20.69	13.72
3	26805	1	#0	QPSK	21.98	15.01
3	26805	1	#Mid	QPSK	22.15	15.18
3	26805	1	#Max	QPSK	22.31	15.34
3	26805	8	#0	QPSK	21.11	14.14
3	26805	8	#Mid	QPSK	21.22	14.25
3	26805	8	#Max	QPSK	21.29	14.32
3	26805	15	#0	QPSK	21.23	14.26
3	26805	1	#0	16QAM	21.13	14.16
3	26805	1	#Mid	16QAM	21.16	14.19
3	26805	1	#Max	16QAM	21.28	14.31
3	26805	8	#0	16QAM	20.09	13.12
3	26805	8	#Mid	16QAM	20.14	13.17
3	26805	8	#Max	16QAM	20.18	13.21
3	26805	15	#0	16QAM	20.10	13.13

3	26805	1	#0	64QAM	20.07	13.10
3	26805	1	#Mid	64QAM	20.20	13.23
3	26805	1	#Max	64QAM	20.26	13.29
3	26805	8	#0	64QAM	19.09	12.12
3	26805	8	#Mid	64QAM	19.19	12.22
3	26805	8	#Max	64QAM	19.23	12.26
3	26805	15	#0	64QAM	19.16	12.19
3	26915	1	#0	QPSK	23.76	16.79
3	26915	1	#Mid	QPSK	23.83	16.86
3	26915	1	#Max	QPSK	23.86	16.89
3	26915	8	#0	QPSK	22.85	15.88
3	26915	8	#Mid	QPSK	22.92	15.95
3	26915	8	#Max	QPSK	22.91	15.94
3	26915	15	#0	QPSK	22.90	15.93
3	26915	1	#0	16QAM	23.11	16.14
3	26915	1	#Mid	16QAM	22.98	16.01
3	26915	1	#Max	16QAM	22.95	15.98
3	26915	8	#0	16QAM	21.93	14.96
3	26915	8	#Mid	16QAM	21.97	15.00
3	26915	8	#Max	16QAM	21.90	14.93
3	26915	15	#0	16QAM	21.89	14.92
3	26915	1	#0	64QAM	21.96	14.99
3	26915	1	#Mid	64QAM	22.03	15.06
3	26915	1	#Max	64QAM	21.93	14.96
3	26915	8	#0	64QAM	20.96	13.99
3	26915	8	#Mid	64QAM	21.02	14.05
3	26915	8	#Max	64QAM	20.97	14.00
3	26915	15	#0	64QAM	20.91	13.94
3	27025	1	#0	QPSK	23.87	16.90
3	27025	1	#Mid	QPSK	23.69	16.72
3	27025	1	#Max	QPSK	23.42	16.45
3	27025	8	#0	QPSK	22.83	15.86
3	27025	8	#Mid	QPSK	22.76	15.79
3	27025	8	#Max	QPSK	22.62	15.65
3	27025	15	#0	QPSK	22.73	15.76
3	27025	1	#0	16QAM	23.18	16.21
3	27025	1	#Mid	16QAM	22.88	15.91
3	27025	1	#Max	16QAM	22.53	15.56
3	27025	8	#0	16QAM	21.92	14.95
3	27025	8	#Mid	16QAM	21.85	14.88
3	27025	8	#Max	16QAM	21.70	14.73
3	27025	15	#0	16QAM	21.75	14.78
3	27025	1	#0	64QAM	22.08	15.11

3	27025	1	#Mid	64QAM	21.89	14.92
3	27025	1	#Max	64QAM	21.50	14.53
3	27025	8	#0	64QAM	20.88	13.91
3	27025	8	#Mid	64QAM	20.84	13.87
3	27025	8	#Max	64QAM	20.72	13.75
3	27025	15	#0	64QAM	20.76	13.79
5	26815	1	#0	QPSK	21.90	14.93
5	26815	1	#Mid	QPSK	22.31	15.34
5	26815	1	#Max	QPSK	22.55	15.58
5	26815	12	#0	QPSK	21.21	14.24
5	26815	12	#Mid	QPSK	21.42	14.45
5	26815	12	#Max	QPSK	21.55	14.58
5	26815	25	#0	QPSK	21.39	14.42
5	26815	1	#0	16QAM	21.05	14.08
5	26815	1	#Mid	16QAM	21.29	14.32
5	26815	1	#Max	16QAM	21.53	14.56
5	26815	12	#0	16QAM	20.05	13.08
5	26815	12	#Mid	16QAM	20.22	13.25
5	26815	12	#Max	16QAM	20.36	13.39
5	26815	25	#0	16QAM	20.25	13.28
5	26815	1	#0	64QAM	20.01	13.04
5	26815	1	#Mid	64QAM	20.27	13.30
5	26815	1	#Max	64QAM	20.47	13.50
5	26815	12	#0	64QAM	19.12	12.15
5	26815	12	#Mid	64QAM	19.32	12.35
5	26815	12	#Max	64QAM	19.42	12.45
5	26815	25	#0	64QAM	19.30	12.33
5	26915	1	#0	QPSK	23.55	16.58
5	26915	1	#Mid	QPSK	23.86	16.89
5	26915	1	#Max	QPSK	23.18	16.21
5	26915	12	#0	QPSK	22.81	15.84
5	26915	12	#Mid	QPSK	22.95	15.98
5	26915	12	#Max	QPSK	22.86	15.89
5	26915	25	#0	QPSK	22.87	15.90
5	26915	1	#0	16QAM	22.88	15.91
5	26915	1	#Mid	16QAM	23.05	16.08
5	26915	1	#Max	16QAM	22.70	15.73
5	26915	12	#0	16QAM	21.81	14.84
5	26915	12	#Mid	16QAM	21.91	14.94
5	26915	12	#Max	16QAM	21.80	14.83
5	26915	25	#0	16QAM	21.90	14.93
5	26915	1	#0	64QAM	21.70	14.73
5	26915	1	#Mid	64QAM	22.05	15.08

5	26915	1	#Max	64QAM	21.71	14.74
5	26915	12	#0	64QAM	20.87	13.90
5	26915	12	#Mid	64QAM	20.97	14.00
5	26915	12	#Max	64QAM	20.87	13.90
5	26915	25	#0	64QAM	20.90	13.93
5	27015	1	#0	QPSK	23.86	16.89
5	27015	1	#Mid	QPSK	23.85	16.88
5	27015	1	#Max	QPSK	23.35	16.38
5	27015	12	#0	QPSK	22.88	15.91
5	27015	12	#Mid	QPSK	22.96	15.99
5	27015	12	#Max	QPSK	22.79	15.82
5	27015	25	#0	QPSK	22.88	15.91
5	27015	1	#0	16QAM	22.87	15.90
5	27015	1	#Mid	16QAM	23.17	16.20
5	27015	1	#Max	16QAM	22.41	15.44
5	27015	12	#0	16QAM	21.90	14.93
5	27015	12	#Mid	16QAM	21.97	15.00
5	27015	12	#Max	16QAM	21.78	14.81
5	27015	25	#0	16QAM	21.90	14.93
5	27015	1	#0	64QAM	21.85	14.88
5	27015	1	#Mid	64QAM	22.13	15.16
5	27015	1	#Max	64QAM	21.46	14.49
5	27015	12	#0	64QAM	20.96	13.99
5	27015	12	#Mid	64QAM	21.00	14.03
5	27015	12	#Max	64QAM	20.87	13.90
5	27015	25	#0	64QAM	20.93	13.96
10	26840	1	#0	QPSK	22.03	15.06
10	26840	1	#Mid	QPSK	22.81	15.84
10	26840	1	#Max	QPSK	23.45	16.48
10	26840	25	#0	QPSK	21.54	14.57
10	26840	25	#Mid	QPSK	21.87	14.90
10	26840	25	#Max	QPSK	22.16	15.19
10	26840	50	#0	QPSK	21.90	14.93
10	26840	1	#0	16QAM	21.14	14.17
10	26840	1	#Mid	16QAM	21.72	14.75
10	26840	1	#Max	16QAM	22.85	15.88
10	26840	25	#0	16QAM	20.34	13.37
10	26840	25	#Mid	16QAM	20.68	13.71
10	26840	25	#Max	16QAM	21.09	14.12
10	26840	50	#0	16QAM	20.74	13.77
10	26840	1	#0	64QAM	20.05	13.08
10	26840	1	#Mid	64QAM	20.73	13.76
10	26840	1	#Max	64QAM	21.70	14.73

10	26840	25	#0	64QAM	19.37	12.40
10	26840	25	#Mid	64QAM	19.73	12.76
10	26840	25	#Max	64QAM	20.10	13.13
10	26840	50	#0	64QAM	19.73	12.76
10	26915	1	#0	QPSK	23.19	16.22
10	26915	1	#Mid	QPSK	23.92	16.95
10	26915	1	#Max	QPSK	21.97	15.00
10	26915	25	#0	QPSK	22.77	15.80
10	26915	25	#Mid	QPSK	22.93	15.96
10	26915	25	#Max	QPSK	22.87	15.90
10	26915	50	#0	QPSK	22.85	15.88
10	26915	1	#0	16QAM	22.45	15.48
10	26915	1	#Mid	16QAM	23.15	16.18
10	26915	1	#Max	16QAM	21.80	14.83
10	26915	25	#0	16QAM	21.80	14.83
10	26915	25	#Mid	16QAM	21.94	14.97
10	26915	25	#Max	16QAM	21.76	14.79
10	26915	50	#0	16QAM	21.82	14.85
10	26915	1	#0	64QAM	21.38	14.41
10	26915	1	#Mid	64QAM	22.12	15.15
10	26915	1	#Max	64QAM	21.77	14.80
10	26915	25	#0	64QAM	20.84	13.87
10	26915	25	#Mid	64QAM	20.95	13.98
10	26915	25	#Max	64QAM	20.83	13.86
10	26915	50	#0	64QAM	20.87	13.90
10	26990	1	#0	QPSK	22.61	15.64
10	26990	1	#Mid	QPSK	23.54	16.57
10	26990	1	#Max	QPSK	23.49	16.52
10	26990	25	#0	QPSK	22.28	15.31
10	26990	25	#Mid	QPSK	23.21	16.24
10	26990	25	#Max	QPSK	23.16	16.19
10	26990	50	#0	QPSK	23.21	16.24
10	26990	1	#0	16QAM	22.44	15.47
10	26990	1	#Mid	16QAM	23.01	16.04
10	26990	1	#Max	16QAM	22.62	15.65
10	26990	25	#0	16QAM	21.98	15.01
10	26990	25	#Mid	16QAM	22.06	15.09
10	26990	25	#Max	16QAM	22.15	15.18
10	26990	50	#0	16QAM	22.10	15.13
10	26990	1	#0	64QAM	21.78	14.81
10	26990	1	#Mid	64QAM	21.97	15.00
10	26990	1	#Max	64QAM	21.62	14.65
10	26990	25	#0	64QAM	20.99	14.02

10	26990	25	#Mid	64QAM	21.08	14.11
10	26990	25	#Max	64QAM	21.15	14.18
10	26990	50	#0	64QAM	21.12	14.15
15	26865	1	#0	QPSK	21.96	14.99
15	26865	1	#Mid	QPSK	23.15	16.18
15	26865	1	#Max	QPSK	23.62	16.65
15	26865	36	#0	QPSK	21.66	14.69
15	26865	36	#Mid	QPSK	22.28	15.31
15	26865	36	#Max	QPSK	22.64	15.67
15	26865	75	#0	QPSK	22.17	15.20
15	26865	1	#0	16QAM	21.10	14.13
15	26865	1	#Mid	16QAM	22.40	15.43
15	26865	1	#Max	16QAM	22.79	15.82
15	26865	36	#0	16QAM	20.47	13.50
15	26865	36	#Mid	16QAM	21.21	14.24
15	26865	36	#Max	16QAM	21.62	14.65
15	26865	75	#0	16QAM	21.09	14.12
15	26865	1	#0	64QAM	20.05	13.08
15	26865	1	#Mid	64QAM	21.30	14.33
15	26865	1	#Max	64QAM	21.75	14.78
15	26865	36	#0	64QAM	19.55	12.58
15	26865	36	#Mid	64QAM	20.27	13.30
15	26865	36	#Max	64QAM	20.66	13.69
15	26865	75	#0	64QAM	20.09	13.12
15	26915	1	#0	QPSK	22.75	15.78
15	26915	1	#Mid	QPSK	23.87	16.90
15	26915	1	#Max	QPSK	22.60	15.63
15	26915	36	#0	QPSK	22.52	15.55
15	26915	36	#Mid	QPSK	22.89	15.92
15	26915	36	#Max	QPSK	22.91	15.94
15	26915	75	#0	QPSK	22.72	15.75
15	26915	1	#0	16QAM	21.74	14.77
15	26915	1	#Mid	16QAM	23.08	16.11
15	26915	1	#Max	16QAM	22.45	15.48
15	26915	36	#0	16QAM	21.50	14.53
15	26915	36	#Mid	16QAM	21.85	14.88
15	26915	36	#Max	16QAM	21.72	14.75
15	26915	75	#0	16QAM	21.67	14.70
15	26915	1	#0	64QAM	20.67	13.70
15	26915	1	#Mid	64QAM	22.04	15.07
15	26915	1	#Max	64QAM	21.77	14.80
15	26915	36	#0	64QAM	20.55	13.58
15	26915	36	#Mid	64QAM	20.91	13.94

15	26915	36	#Max	64QAM	20.80	13.83
15	26915	75	#0	64QAM	20.69	13.72
15	26965	1	#0	QPSK	23.63	16.66
15	26965	1	#Mid	QPSK	21.90	14.93
15	26965	1	#Max	QPSK	23.48	16.51
15	26965	36	#0	QPSK	23.16	16.19
15	26965	36	#Mid	QPSK	22.64	15.67
15	26965	36	#Max	QPSK	23.24	16.27
15	26965	75	#0	QPSK	23.22	16.25
15	26965	1	#0	16QAM	22.86	15.89
15	26965	1	#Mid	16QAM	21.79	14.82
15	26965	1	#Max	16QAM	22.57	15.60
15	26965	36	#0	16QAM	22.03	15.06
15	26965	36	#Mid	16QAM	21.95	14.98
15	26965	36	#Max	16QAM	22.09	15.12
15	26965	75	#0	16QAM	22.05	15.08
15	26965	1	#0	64QAM	21.84	14.87
15	26965	1	#Mid	64QAM	21.70	14.73
15	26965	1	#Max	64QAM	21.63	14.66
15	26965	36	#0	64QAM	21.04	14.07
15	26965	36	#Mid	64QAM	20.92	13.95
15	26965	36	#Max	64QAM	21.13	14.16
15	26965	75	#0	64QAM	21.05	14.08
LTE Band38						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP
5	37775	1	#0	QPSK	22.18	22.22
5	37775	1	#Mid	QPSK	22.29	22.33
5	37775	1	#Max	QPSK	22.17	22.21
5	37775	12	#0	QPSK	21.27	21.31
5	37775	12	#Mid	QPSK	21.29	21.33
5	37775	12	#Max	QPSK	21.26	21.30
5	37775	25	#0	QPSK	21.27	21.31
5	37775	1	#0	16QAM	21.38	21.42
5	37775	1	#Mid	16QAM	21.49	21.53
5	37775	1	#Max	16QAM	21.38	21.42
5	37775	12	#0	16QAM	20.28	20.32
5	37775	12	#Mid	16QAM	20.32	20.36
5	37775	12	#Max	16QAM	20.28	20.32
5	37775	25	#0	16QAM	20.32	20.36
5	37775	1	#0	64QAM	20.18	20.22
5	37775	1	#Mid	64QAM	20.29	20.33
5	37775	1	#Max	64QAM	20.18	20.22
5	37775	12	#0	64QAM	19.28	19.32

5	37775	12	#Mid	64QAM	19.35	19.39
5	37775	12	#Max	64QAM	19.30	19.34
5	37775	25	#0	64QAM	19.30	19.34
5	38000	1	#0	QPSK	22.36	22.40
5	38000	1	#Mid	QPSK	22.44	22.48
5	38000	1	#Max	QPSK	22.33	22.37
5	38000	12	#0	QPSK	21.38	21.42
5	38000	12	#Mid	QPSK	21.42	21.46
5	38000	12	#Max	QPSK	21.36	21.40
5	38000	25	#0	QPSK	21.41	21.45
5	38000	1	#0	16QAM	21.53	21.57
5	38000	1	#Mid	16QAM	21.64	21.68
5	38000	1	#Max	16QAM	21.51	21.55
5	38000	12	#0	16QAM	20.39	20.43
5	38000	12	#Mid	16QAM	20.44	20.48
5	38000	12	#Max	16QAM	20.39	20.43
5	38000	25	#0	16QAM	20.45	20.49
5	38000	1	#0	64QAM	20.30	20.34
5	38000	1	#Mid	64QAM	20.39	20.43
5	38000	1	#Max	64QAM	20.27	20.31
5	38000	12	#0	64QAM	19.44	19.48
5	38000	12	#Mid	64QAM	19.48	19.52
5	38000	12	#Max	64QAM	19.47	19.51
5	38000	25	#0	64QAM	19.48	19.52
5	38225	1	#0	QPSK	22.43	22.47
5	38225	1	#Mid	QPSK	22.50	22.54
5	38225	1	#Max	QPSK	22.45	22.49
5	38225	12	#0	QPSK	21.45	21.49
5	38225	12	#Mid	QPSK	21.52	21.56
5	38225	12	#Max	QPSK	21.48	21.52
5	38225	25	#0	QPSK	21.50	21.54
5	38225	1	#0	16QAM	21.58	21.62
5	38225	1	#Mid	16QAM	21.69	21.73
5	38225	1	#Max	16QAM	21.62	21.66
5	38225	12	#0	16QAM	20.49	20.53
5	38225	12	#Mid	16QAM	20.55	20.59
5	38225	12	#Max	16QAM	20.51	20.55
5	38225	25	#0	16QAM	20.55	20.59
5	38225	1	#0	64QAM	20.37	20.41
5	38225	1	#Mid	64QAM	20.45	20.49
5	38225	1	#Max	64QAM	20.39	20.43
5	38225	12	#0	64QAM	19.53	19.57
5	38225	12	#Mid	64QAM	19.57	19.61

5	38225	12	#Max	64QAM	19.55	19.59
5	38225	25	#0	64QAM	19.59	19.63
10	37800	1	#0	QPSK	22.28	22.32
10	37800	1	#Mid	QPSK	22.41	22.45
10	37800	1	#Max	QPSK	22.32	22.36
10	37800	25	#0	QPSK	21.35	21.39
10	37800	25	#Mid	QPSK	21.34	21.38
10	37800	25	#Max	QPSK	21.36	21.40
10	37800	50	#0	QPSK	21.32	21.36
10	37800	1	#0	16QAM	21.48	21.52
10	37800	1	#Mid	16QAM	21.61	21.65
10	37800	1	#Max	16QAM	21.52	21.56
10	37800	25	#0	16QAM	20.39	20.43
10	37800	25	#Mid	16QAM	20.39	20.43
10	37800	25	#Max	16QAM	20.39	20.43
10	37800	50	#0	16QAM	20.39	20.43
10	37800	1	#0	64QAM	20.26	20.30
10	37800	1	#Mid	64QAM	20.39	20.43
10	37800	1	#Max	64QAM	20.28	20.32
10	37800	25	#0	64QAM	19.38	19.42
10	37800	25	#Mid	64QAM	19.41	19.45
10	37800	25	#Max	64QAM	19.41	19.45
10	37800	50	#0	64QAM	19.32	19.36
10	38000	1	#0	QPSK	22.43	22.47
10	38000	1	#Mid	QPSK	22.57	22.61
10	38000	1	#Max	QPSK	22.40	22.44
10	38000	25	#0	QPSK	21.47	21.51
10	38000	25	#Mid	QPSK	21.47	21.51
10	38000	25	#Max	QPSK	21.45	21.49
10	38000	50	#0	QPSK	21.44	21.48
10	38000	1	#0	16QAM	21.63	21.67
10	38000	1	#Mid	16QAM	21.77	21.81
10	38000	1	#Max	16QAM	21.61	21.65
10	38000	25	#0	16QAM	20.52	20.56
10	38000	25	#Mid	16QAM	20.50	20.54
10	38000	25	#Max	16QAM	20.49	20.53
10	38000	50	#0	16QAM	20.51	20.55
10	38000	1	#0	64QAM	20.37	20.41
10	38000	1	#Mid	64QAM	20.52	20.56
10	38000	1	#Max	64QAM	20.34	20.38
10	38000	25	#0	64QAM	19.60	19.64
10	38000	25	#Mid	64QAM	19.57	19.61
10	38000	25	#Max	64QAM	19.55	19.59

10	38000	50	#0	64QAM	19.51	19.55
10	38200	1	#0	QPSK	22.45	22.49
10	38200	1	#Mid	QPSK	22.57	22.61
10	38200	1	#Max	QPSK	22.53	22.57
10	38200	25	#0	QPSK	21.49	21.53
10	38200	25	#Mid	QPSK	21.49	21.53
10	38200	25	#Max	QPSK	21.57	21.61
10	38200	50	#0	QPSK	21.50	21.54
10	38200	1	#0	16QAM	21.65	21.69
10	38200	1	#Mid	16QAM	21.79	21.83
10	38200	1	#Max	16QAM	21.72	21.76
10	38200	25	#0	16QAM	20.55	20.59
10	38200	25	#Mid	16QAM	20.54	20.58
10	38200	25	#Max	16QAM	20.60	20.64
10	38200	50	#0	16QAM	20.58	20.62
10	38200	1	#0	64QAM	20.39	20.43
10	38200	1	#Mid	64QAM	20.53	20.57
10	38200	1	#Max	64QAM	20.47	20.51
10	38200	25	#0	64QAM	19.59	19.63
10	38200	25	#Mid	64QAM	19.60	19.64
10	38200	25	#Max	64QAM	19.67	19.71
10	38200	50	#0	64QAM	19.55	19.59
15	37825	1	#0	QPSK	22.20	22.24
15	37825	1	#Mid	QPSK	22.33	22.37
15	37825	1	#Max	QPSK	22.24	22.28
15	37825	36	#0	QPSK	21.30	21.34
15	37825	36	#Mid	QPSK	21.33	21.37
15	37825	36	#Max	QPSK	21.31	21.35
15	37825	75	#0	QPSK	21.31	21.35
15	37825	1	#0	16QAM	21.39	21.43
15	37825	1	#Mid	16QAM	21.52	21.56
15	37825	1	#Max	16QAM	21.44	21.48
15	37825	36	#0	16QAM	20.27	20.31
15	37825	36	#Mid	16QAM	20.30	20.34
15	37825	36	#Max	16QAM	20.30	20.34
15	37825	75	#0	16QAM	20.34	20.38
15	37825	1	#0	64QAM	20.16	20.20
15	37825	1	#Mid	64QAM	20.30	20.34
15	37825	1	#Max	64QAM	20.20	20.24
15	37825	36	#0	64QAM	19.26	19.30
15	37825	36	#Mid	64QAM	19.30	19.34
15	37825	36	#Max	64QAM	19.29	19.33
15	37825	75	#0	64QAM	19.30	19.34

15	38000	1	#0	QPSK	22.38	22.42
15	38000	1	#Mid	QPSK	22.45	22.49
15	38000	1	#Max	QPSK	22.32	22.36
15	38000	36	#0	QPSK	21.45	21.49
15	38000	36	#Mid	QPSK	21.44	21.48
15	38000	36	#Max	QPSK	21.42	21.46
15	38000	75	#0	QPSK	21.42	21.46
15	38000	1	#0	16QAM	21.57	21.61
15	38000	1	#Mid	16QAM	21.64	21.68
15	38000	1	#Max	16QAM	21.52	21.56
15	38000	36	#0	16QAM	20.43	20.47
15	38000	36	#Mid	16QAM	20.39	20.43
15	38000	36	#Max	16QAM	20.39	20.43
15	38000	75	#0	16QAM	20.45	20.49
15	38000	1	#0	64QAM	20.32	20.36
15	38000	1	#Mid	64QAM	20.41	20.45
15	38000	1	#Max	64QAM	20.28	20.32
15	38000	36	#0	64QAM	19.44	19.48
15	38000	36	#Mid	64QAM	19.45	19.49
15	38000	36	#Max	64QAM	19.42	19.46
15	38000	75	#0	64QAM	19.46	19.50
15	38175	1	#0	QPSK	22.31	22.35
15	38175	1	#Mid	QPSK	22.43	22.47
15	38175	1	#Max	QPSK	22.42	22.46
15	38175	36	#0	QPSK	21.41	21.45
15	38175	36	#Mid	QPSK	21.43	21.47
15	38175	36	#Max	QPSK	21.48	21.52
15	38175	75	#0	QPSK	21.44	21.48
15	38175	1	#0	16QAM	21.49	21.53
15	38175	1	#Mid	16QAM	21.64	21.68
15	38175	1	#Max	16QAM	21.61	21.65
15	38175	36	#0	16QAM	20.37	20.41
15	38175	36	#Mid	16QAM	20.39	20.43
15	38175	36	#Max	16QAM	20.42	20.46
15	38175	75	#0	16QAM	20.47	20.51
15	38175	1	#0	64QAM	20.26	20.30
15	38175	1	#Mid	64QAM	20.38	20.42
15	38175	1	#Max	64QAM	20.36	20.40
15	38175	36	#0	64QAM	19.39	19.43
15	38175	36	#Mid	64QAM	19.43	19.47
15	38175	36	#Max	64QAM	19.47	19.51
15	38175	75	#0	64QAM	19.48	19.52
20	37850	1	#0	QPSK	22.05	22.09

20	37850	1	#Mid	QPSK	22.38	22.42
20	37850	1	#Max	QPSK	22.11	22.15
20	37850	50	#0	QPSK	21.27	21.31
20	37850	50	#Mid	QPSK	21.31	21.35
20	37850	50	#Max	QPSK	21.31	21.35
20	37850	100	#0	QPSK	21.32	21.36
20	37850	1	#0	16QAM	21.24	21.28
20	37850	1	#Mid	16QAM	21.58	21.62
20	37850	1	#Max	16QAM	21.33	21.37
20	37850	50	#0	16QAM	20.32	20.36
20	37850	50	#Mid	16QAM	20.38	20.42
20	37850	50	#Max	16QAM	20.37	20.41
20	37850	100	#0	16QAM	20.37	20.41
20	37850	1	#0	64QAM	19.98	20.02
20	37850	1	#Mid	64QAM	20.38	20.42
20	37850	1	#Max	64QAM	20.07	20.11
20	37850	50	#0	64QAM	19.29	19.33
20	37850	50	#Mid	64QAM	19.34	19.38
20	37850	50	#Max	64QAM	19.32	19.36
20	37850	100	#0	64QAM	19.32	19.36
20	38000	1	#0	QPSK	22.20	22.24
20	38000	1	#Mid	QPSK	22.53	22.57
20	38000	1	#Max	QPSK	22.15	22.19
20	38000	50	#0	QPSK	21.41	21.45
20	38000	50	#Mid	QPSK	21.41	21.45
20	38000	50	#Max	QPSK	21.40	21.44
20	38000	100	#0	QPSK	21.44	21.48
20	38000	1	#0	16QAM	21.38	21.42
20	38000	1	#Mid	16QAM	21.72	21.76
20	38000	1	#Max	16QAM	21.37	21.41
20	38000	50	#0	16QAM	20.47	20.51
20	38000	50	#Mid	16QAM	20.46	20.50
20	38000	50	#Max	16QAM	20.45	20.49
20	38000	100	#0	16QAM	20.48	20.52
20	38000	1	#0	64QAM	20.14	20.18
20	38000	1	#Mid	64QAM	20.47	20.51
20	38000	1	#Max	64QAM	20.09	20.13
20	38000	50	#0	64QAM	19.46	19.50
20	38000	50	#Mid	64QAM	19.44	19.48
20	38000	50	#Max	64QAM	19.44	19.48
20	38000	100	#0	64QAM	19.47	19.51
20	38150	1	#0	QPSK	22.12	22.16
20	38150	1	#Mid	QPSK	22.53	22.57

20	38150	1	#Max	QPSK	22.24	22.28
20	38150	50	#0	QPSK	21.36	21.40
20	38150	50	#Mid	QPSK	21.44	21.48
20	38150	50	#Max	QPSK	21.40	21.44
20	38150	100	#0	QPSK	21.42	21.46
20	38150	1	#0	16QAM	21.30	21.34
20	38150	1	#Mid	16QAM	21.72	21.76
20	38150	1	#Max	16QAM	21.46	21.50
20	38150	50	#0	16QAM	20.41	20.45
20	38150	50	#Mid	16QAM	20.50	20.54
20	38150	50	#Max	16QAM	20.46	20.50
20	38150	100	#0	16QAM	20.48	20.52
20	38150	1	#0	64QAM	20.05	20.09
20	38150	1	#Mid	64QAM	20.48	20.52
20	38150	1	#Max	64QAM	20.19	20.23
20	38150	50	#0	64QAM	19.41	19.45
20	38150	50	#Mid	64QAM	19.48	19.52
20	38150	50	#Max	64QAM	19.47	19.51
20	38150	100	#0	64QAM	19.48	19.52
LTE Band41						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP
5	40065	1	#0	QPSK	22.24	22.01
5	40065	1	#Mid	QPSK	22.35	22.12
5	40065	1	#Max	QPSK	22.22	21.99
5	40065	12	#0	QPSK	21.29	21.06
5	40065	12	#Mid	QPSK	21.34	21.11
5	40065	12	#Max	QPSK	21.33	21.10
5	40065	25	#0	QPSK	21.32	21.09
5	40065	1	#0	16QAM	21.46	21.23
5	40065	1	#Mid	16QAM	21.56	21.33
5	40065	1	#Max	16QAM	21.43	21.20
5	40065	12	#0	16QAM	20.30	20.07
5	40065	12	#Mid	16QAM	20.36	20.13
5	40065	12	#Max	16QAM	20.37	20.14
5	40065	25	#0	16QAM	20.37	20.14
5	40065	1	#0	64QAM	20.25	20.02
5	40065	1	#Mid	64QAM	20.32	20.09
5	40065	1	#Max	64QAM	20.19	19.96
5	40065	12	#0	64QAM	19.35	19.12
5	40065	12	#Mid	64QAM	19.44	19.21
5	40065	12	#Max	64QAM	19.42	19.19
5	40065	25	#0	64QAM	19.41	19.18
5	40640	1	#0	QPSK	22.58	22.35

5	40640	1	#Mid	QPSK	22.62	22.39
5	40640	1	#Max	QPSK	22.57	22.34
5	40640	12	#0	QPSK	21.63	21.40
5	40640	12	#Mid	QPSK	21.62	21.39
5	40640	12	#Max	QPSK	21.63	21.40
5	40640	25	#0	QPSK	21.63	21.40
5	40640	1	#0	16QAM	21.75	21.52
5	40640	1	#Mid	16QAM	21.85	21.62
5	40640	1	#Max	16QAM	21.76	21.53
5	40640	12	#0	16QAM	20.63	20.40
5	40640	12	#Mid	16QAM	20.65	20.42
5	40640	12	#Max	16QAM	20.66	20.43
5	40640	25	#0	16QAM	20.67	20.44
5	40640	1	#0	64QAM	20.54	20.31
5	40640	1	#Mid	64QAM	20.63	20.40
5	40640	1	#Max	64QAM	20.52	20.29
5	40640	12	#0	64QAM	19.63	19.40
5	40640	12	#Mid	64QAM	19.69	19.46
5	40640	12	#Max	64QAM	19.64	19.41
5	40640	25	#0	64QAM	19.62	19.39
5	41215	1	#0	QPSK	22.99	22.76
5	41215	1	#Mid	QPSK	23.06	22.83
5	41215	1	#Max	QPSK	22.94	22.71
5	41215	12	#0	QPSK	22.09	21.86
5	41215	12	#Mid	QPSK	22.12	21.89
5	41215	12	#Max	QPSK	22.07	21.84
5	41215	25	#0	QPSK	22.06	21.83
5	41215	1	#0	16QAM	22.18	21.95
5	41215	1	#Mid	16QAM	22.28	22.05
5	41215	1	#Max	16QAM	22.16	21.93
5	41215	12	#0	16QAM	21.11	20.88
5	41215	12	#Mid	16QAM	21.16	20.93
5	41215	12	#Max	16QAM	21.11	20.88
5	41215	25	#0	16QAM	21.13	20.90
5	41215	1	#0	64QAM	20.97	20.74
5	41215	1	#Mid	64QAM	21.07	20.84
5	41215	1	#Max	64QAM	20.99	20.76
5	41215	12	#0	64QAM	20.17	19.94
5	41215	12	#Mid	64QAM	20.20	19.97
5	41215	12	#Max	64QAM	20.13	19.90
5	41215	25	#0	64QAM	20.17	19.94
10	40090	1	#0	QPSK	22.40	22.17
10	40090	1	#Mid	QPSK	22.46	22.23

10	40090	1	#Max	QPSK	22.29	22.06
10	40090	25	#0	QPSK	21.33	21.10
10	40090	25	#Mid	QPSK	21.38	21.15
10	40090	25	#Max	QPSK	21.46	21.23
10	40090	50	#0	QPSK	21.39	21.16
10	40090	1	#0	16QAM	21.61	21.38
10	40090	1	#Mid	16QAM	21.66	21.43
10	40090	1	#Max	16QAM	21.52	21.29
10	40090	25	#0	16QAM	20.36	20.13
10	40090	25	#Mid	16QAM	20.39	20.16
10	40090	25	#Max	16QAM	20.49	20.26
10	40090	50	#0	16QAM	20.44	20.21
10	40090	1	#0	64QAM	20.36	20.13
10	40090	1	#Mid	64QAM	20.41	20.18
10	40090	1	#Max	64QAM	20.26	20.03
10	40090	25	#0	64QAM	19.42	19.19
10	40090	25	#Mid	64QAM	19.46	19.23
10	40090	25	#Max	64QAM	19.66	19.43
10	40090	50	#0	64QAM	19.44	19.21
10	40640	1	#0	QPSK	22.65	22.42
10	40640	1	#Mid	QPSK	22.70	22.47
10	40640	1	#Max	QPSK	22.67	22.44
10	40640	25	#0	QPSK	21.67	21.44
10	40640	25	#Mid	QPSK	21.68	21.45
10	40640	25	#Max	QPSK	21.71	21.48
10	40640	50	#0	QPSK	21.69	21.46
10	40640	1	#0	16QAM	21.86	21.63
10	40640	1	#Mid	16QAM	21.93	21.70
10	40640	1	#Max	16QAM	21.89	21.66
10	40640	25	#0	16QAM	20.73	20.50
10	40640	25	#Mid	16QAM	20.70	20.47
10	40640	25	#Max	16QAM	20.75	20.52
10	40640	50	#0	16QAM	20.75	20.52
10	40640	1	#0	64QAM	20.62	20.39
10	40640	1	#Mid	64QAM	20.71	20.48
10	40640	1	#Max	64QAM	20.61	20.38
10	40640	25	#0	64QAM	19.69	19.46
10	40640	25	#Mid	64QAM	19.76	19.53
10	40640	25	#Max	64QAM	19.68	19.45
10	40640	50	#0	64QAM	19.64	19.41
10	41190	1	#0	QPSK	23.09	22.86
10	41190	1	#Mid	QPSK	23.17	22.94
10	41190	1	#Max	QPSK	23.04	22.81

10	41190	25	#0	QPSK	22.18	21.95
10	41190	25	#Mid	QPSK	22.13	21.90
10	41190	25	#Max	QPSK	22.11	21.88
10	41190	50	#0	QPSK	22.16	21.93
10	41190	1	#0	16QAM	22.29	22.06
10	41190	1	#Mid	16QAM	22.35	22.12
10	41190	1	#Max	16QAM	22.26	22.03
10	41190	25	#0	16QAM	21.22	20.99
10	41190	25	#Mid	16QAM	21.16	20.93
10	41190	25	#Max	16QAM	21.15	20.92
10	41190	50	#0	16QAM	21.23	21.00
10	41190	1	#0	64QAM	21.05	20.82
10	41190	1	#Mid	64QAM	21.15	20.92
10	41190	1	#Max	64QAM	21.07	20.84
10	41190	25	#0	64QAM	20.27	20.04
10	41190	25	#Mid	64QAM	20.22	19.99
10	41190	25	#Max	64QAM	20.21	19.98
10	41190	50	#0	64QAM	20.21	19.98
15	40115	1	#0	QPSK	22.28	22.05
15	40115	1	#Mid	QPSK	22.38	22.15
15	40115	1	#Max	QPSK	22.21	21.98
15	40115	36	#0	QPSK	21.28	21.05
15	40115	36	#Mid	QPSK	21.34	21.11
15	40115	36	#Max	QPSK	21.38	21.15
15	40115	75	#0	QPSK	21.31	21.08
15	40115	1	#0	16QAM	21.48	21.25
15	40115	1	#Mid	16QAM	21.48	21.25
15	40115	1	#Max	16QAM	21.41	21.18
15	40115	36	#0	16QAM	20.26	20.03
15	40115	36	#Mid	16QAM	20.30	20.07
15	40115	36	#Max	16QAM	20.32	20.09
15	40115	75	#0	16QAM	20.35	20.12
15	40115	1	#0	64QAM	20.25	20.02
15	40115	1	#Mid	64QAM	20.30	20.07
15	40115	1	#Max	64QAM	20.18	19.95
15	40115	36	#0	64QAM	19.28	19.05
15	40115	36	#Mid	64QAM	19.34	19.11
15	40115	36	#Max	64QAM	19.32	19.09
15	40115	75	#0	64QAM	19.34	19.11
15	40640	1	#0	QPSK	22.54	22.31
15	40640	1	#Mid	QPSK	22.64	22.41
15	40640	1	#Max	QPSK	22.58	22.35
15	40640	36	#0	QPSK	21.64	21.41

15	40640	36	#Mid	QPSK	21.65	21.42
15	40640	36	#Max	QPSK	21.65	21.42
15	40640	75	#0	QPSK	21.63	21.40
15	40640	1	#0	16QAM	21.73	21.50
15	40640	1	#Mid	16QAM	21.99	21.76
15	40640	1	#Max	16QAM	21.76	21.53
15	40640	36	#0	16QAM	20.62	20.39
15	40640	36	#Mid	16QAM	20.60	20.37
15	40640	36	#Max	16QAM	20.64	20.41
15	40640	75	#0	16QAM	20.67	20.44
15	40640	1	#0	64QAM	20.48	20.25
15	40640	1	#Mid	64QAM	20.61	20.38
15	40640	1	#Max	64QAM	20.51	20.28
15	40640	36	#0	64QAM	19.62	19.39
15	40640	36	#Mid	64QAM	19.61	19.38
15	40640	36	#Max	64QAM	19.64	19.41
15	40640	75	#0	64QAM	19.63	19.40
15	41165	1	#0	QPSK	22.94	22.71
15	41165	1	#Mid	QPSK	23.06	22.83
15	41165	1	#Max	QPSK	22.93	22.70
15	41165	36	#0	QPSK	22.06	21.83
15	41165	36	#Mid	QPSK	22.09	21.86
15	41165	36	#Max	QPSK	22.06	21.83
15	41165	75	#0	QPSK	22.05	21.82
15	41165	1	#0	16QAM	22.12	21.89
15	41165	1	#Mid	16QAM	22.27	22.04
15	41165	1	#Max	16QAM	22.12	21.89
15	41165	36	#0	16QAM	21.03	20.80
15	41165	36	#Mid	16QAM	21.06	20.83
15	41165	36	#Max	16QAM	21.06	20.83
15	41165	75	#0	16QAM	21.10	20.87
15	41165	1	#0	64QAM	20.91	20.68
15	41165	1	#Mid	64QAM	21.07	20.84
15	41165	1	#Max	64QAM	20.94	20.71
15	41165	36	#0	64QAM	20.05	19.82
15	41165	36	#Mid	64QAM	20.07	19.84
15	41165	36	#Max	64QAM	20.07	19.84
15	41165	75	#0	64QAM	20.11	19.88
20	40140	1	#0	QPSK	22.13	21.90
20	40140	1	#Mid	QPSK	22.38	22.15
20	40140	1	#Max	QPSK	22.03	21.80
20	40140	50	#0	QPSK	21.19	20.96
20	40140	50	#Mid	QPSK	21.33	21.10

20	40140	50	#Max	QPSK	21.38	21.15
20	40140	100	#0	QPSK	21.31	21.08
20	40140	1	#0	16QAM	21.33	21.10
20	40140	1	#Mid	16QAM	21.59	21.36
20	40140	1	#Max	16QAM	21.25	21.02
20	40140	50	#0	16QAM	20.23	20.00
20	40140	50	#Mid	16QAM	20.38	20.15
20	40140	50	#Max	16QAM	20.43	20.20
20	40140	100	#0	16QAM	20.34	20.11
20	40140	1	#0	64QAM	20.09	19.86
20	40140	1	#Mid	64QAM	20.37	20.14
20	40140	1	#Max	64QAM	20.00	19.77
20	40140	50	#0	64QAM	19.21	18.98
20	40140	50	#Mid	64QAM	19.36	19.13
20	40140	50	#Max	64QAM	19.39	19.16
20	40140	100	#0	64QAM	19.35	19.12
20	40640	1	#0	QPSK	22.41	22.18
20	40640	1	#Mid	QPSK	22.74	22.51
20	40640	1	#Max	QPSK	22.41	22.18
20	40640	50	#0	QPSK	21.64	21.41
20	40640	50	#Mid	QPSK	21.65	21.42
20	40640	50	#Max	QPSK	21.64	21.41
20	40640	100	#0	QPSK	21.63	21.40
20	40640	1	#0	16QAM	21.60	21.37
20	40640	1	#Mid	16QAM	21.90	21.67
20	40640	1	#Max	16QAM	21.61	21.38
20	40640	50	#0	16QAM	20.68	20.45
20	40640	50	#Mid	16QAM	20.70	20.47
20	40640	50	#Max	16QAM	20.69	20.46
20	40640	100	#0	16QAM	20.70	20.47
20	40640	1	#0	64QAM	20.35	20.12
20	40640	1	#Mid	64QAM	20.68	20.45
20	40640	1	#Max	64QAM	20.35	20.12
20	40640	50	#0	64QAM	20.76	20.53
20	40640	50	#Mid	64QAM	19.64	19.41
20	40640	50	#Max	64QAM	19.66	19.43
20	40640	100	#0	64QAM	19.72	19.49
20	41140	1	#0	QPSK	22.79	22.56
20	41140	1	#Mid	QPSK	23.16	22.93
20	41140	1	#Max	QPSK	22.79	22.56
20	41140	50	#0	QPSK	22.02	21.79
20	41140	50	#Mid	QPSK	22.10	21.87
20	41140	50	#Max	QPSK	21.99	21.76

20	41140	100	#0	QPSK	22.02	21.79
20	41140	1	#0	16QAM	21.98	21.75
20	41140	1	#Mid	16QAM	22.36	22.13
20	41140	1	#Max	16QAM	22.00	21.77
20	41140	50	#0	16QAM	21.09	20.86
20	41140	50	#Mid	16QAM	21.15	20.92
20	41140	50	#Max	16QAM	21.06	20.83
20	41140	100	#0	16QAM	21.07	20.84
20	41140	1	#0	64QAM	20.71	20.48
20	41140	1	#Mid	64QAM	21.14	20.91
20	41140	1	#Max	64QAM	20.77	20.54
20	41140	50	#0	64QAM	20.07	19.84
20	41140	50	#Mid	64QAM	20.12	19.89
20	41140	50	#Max	64QAM	20.07	19.84
20	41140	100	#0	64QAM	20.07	19.84

6.2 Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
GPRS 850 (GMSK)	128	824.2	0.245	0.307
	190	836.6	0.246	0.315
	251	848.8	0.246	0.316
EGPRS 850 (8-PSK)	128	824.2	0.254	0.329
	190	836.6	0.258	0.324
	251	848.8	0.253	0.325
Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
GPRS 1900 (GMSK)	512	1850.2	0.248	0.317
	661	1880	0.246	0.319
	810	1909.8	0.243	0.312
EGPRS 1900 (8-PSK)	512	1850.2	0.244	0.315
	661	1880	0.249	0.312
	810	1909.8	0.250	0.321
Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA B2	9262	1852.4	4.16	4.66
	9400	1880	4.17	4.67
	9538	1907.6	4.18	4.67
Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA B4	1312	1712.4	4.19	4.66
	1413	1732.6	4.19	4.71
	1513	1752.6	4.17	4.67
Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA B5	4132	826.4	4.17	4.73
	4183	836.6	4.17	4.69
	4233	846.6	4.18	4.67

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band2	1.4	18607	6	#0	QPSK	1.10	1.25	PASS
Band2	1.4	18607	6	#0	16QAM	1.10	1.26	PASS
Band2	1.4	18607	6	#0	64QAM	1.10	1.30	PASS
Band2	1.4	18900	6	#0	QPSK	1.09	1.26	PASS
Band2	1.4	18900	6	#0	16QAM	1.09	1.27	PASS
Band2	1.4	18900	6	#0	64QAM	1.10	1.29	PASS
Band2	1.4	19193	6	#0	QPSK	1.10	1.27	PASS
Band2	1.4	19193	6	#0	16QAM	1.09	1.28	PASS
Band2	1.4	19193	6	#0	64QAM	1.10	1.28	PASS
Band2	3	18615	15	#0	QPSK	2.69	2.91	PASS
Band2	3	18615	15	#0	16QAM	2.69	2.91	PASS
Band2	3	18615	15	#0	64QAM	2.69	2.90	PASS
Band2	3	18900	15	#0	QPSK	2.70	2.91	PASS
Band2	3	18900	15	#0	16QAM	2.69	2.92	PASS
Band2	3	18900	15	#0	64QAM	2.70	2.90	PASS
Band2	3	19185	15	#0	QPSK	2.69	2.92	PASS
Band2	3	19185	15	#0	16QAM	2.69	2.91	PASS
Band2	3	19185	15	#0	64QAM	2.70	2.91	PASS
Band2	5	18625	25	#0	QPSK	4.50	4.90	PASS
Band2	5	18625	25	#0	16QAM	4.49	4.90	PASS
Band2	5	18625	25	#0	64QAM	4.51	4.86	PASS
Band2	5	18900	25	#0	QPSK	4.49	4.85	PASS
Band2	5	18900	25	#0	16QAM	4.51	4.86	PASS
Band2	5	18900	25	#0	64QAM	4.51	4.94	PASS
Band2	5	19175	25	#0	QPSK	4.51	4.88	PASS
Band2	5	19175	25	#0	16QAM	4.52	4.82	PASS
Band2	5	19175	25	#0	64QAM	4.50	4.87	PASS
Band2	10	18650	50	#0	QPSK	8.98	9.59	PASS
Band2	10	18650	50	#0	16QAM	8.98	9.64	PASS
Band2	10	18650	50	#0	64QAM	8.98	9.69	PASS
Band2	10	18900	50	#0	QPSK	9.00	9.69	PASS
Band2	10	18900	50	#0	16QAM	9.00	9.55	PASS
Band2	10	18900	50	#0	64QAM	8.97	9.59	PASS
Band2	10	19150	50	#0	QPSK	8.99	9.63	PASS
Band2	10	19150	50	#0	16QAM	8.94	9.63	PASS
Band2	10	19150	50	#0	64QAM	9.00	9.60	PASS
Band2	15	18675	75	#0	QPSK	13.43	14.41	PASS
Band2	15	18675	75	#0	16QAM	13.48	14.34	PASS
Band2	15	18675	75	#0	64QAM	13.45	14.53	PASS
Band2	15	18900	75	#0	QPSK	13.43	14.38	PASS

Band2	15	18900	75	#0	16QAM	13.45	14.59	PASS
Band2	15	18900	75	#0	64QAM	13.47	14.34	PASS
Band2	15	19125	75	#0	QPSK	13.46	14.37	PASS
Band2	15	19125	75	#0	16QAM	13.46	14.55	PASS
Band2	15	19125	75	#0	64QAM	13.47	14.41	PASS
Band2	20	18700	100	#0	QPSK	17.99	19.27	PASS
Band2	20	18700	100	#0	16QAM	17.99	19.33	PASS
Band2	20	18700	100	#0	64QAM	17.97	19.10	PASS
Band2	20	18900	100	#0	QPSK	17.92	19.13	PASS
Band2	20	18900	100	#0	16QAM	17.87	19.31	PASS
Band2	20	18900	100	#0	64QAM	17.93	19.16	PASS
Band2	20	19100	100	#0	QPSK	17.97	19.11	PASS
Band2	20	19100	100	#0	16QAM	17.97	19.22	PASS
Band2	20	19100	100	#0	64QAM	18.01	19.18	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band4	1.4	19957	6	#0	QPSK	1.10	1.28	PASS
Band4	1.4	19957	6	#0	16QAM	1.10	1.28	PASS
Band4	1.4	19957	6	#0	64QAM	1.10	1.29	PASS
Band4	1.4	20175	6	#0	QPSK	1.10	1.26	PASS
Band4	1.4	20175	6	#0	16QAM	1.09	1.27	PASS
Band4	1.4	20175	6	#0	64QAM	1.10	1.29	PASS
Band4	1.4	20393	6	#0	QPSK	1.09	1.27	PASS
Band4	1.4	20393	6	#0	16QAM	1.10	1.26	PASS
Band4	1.4	20393	6	#0	64QAM	1.09	1.27	PASS
Band4	3	19965	15	#0	QPSK	2.70	2.90	PASS
Band4	3	19965	15	#0	16QAM	2.70	2.90	PASS
Band4	3	19965	15	#0	64QAM	2.70	2.90	PASS
Band4	3	20175	15	#0	QPSK	2.68	2.91	PASS
Band4	3	20175	15	#0	16QAM	2.69	2.92	PASS
Band4	3	20175	15	#0	64QAM	2.70	2.89	PASS
Band4	3	20385	15	#0	QPSK	2.68	2.89	PASS
Band4	3	20385	15	#0	16QAM	2.68	2.91	PASS
Band4	3	20385	15	#0	64QAM	2.69	2.89	PASS
Band4	5	19975	25	#0	QPSK	4.49	4.87	PASS
Band4	5	19975	25	#0	16QAM	4.52	4.89	PASS
Band4	5	19975	25	#0	64QAM	4.52	4.93	PASS
Band4	5	20175	25	#0	QPSK	4.51	4.84	PASS
Band4	5	20175	25	#0	16QAM	4.49	4.83	PASS
Band4	5	20175	25	#0	64QAM	4.49	4.87	PASS
Band4	5	20375	25	#0	QPSK	4.51	4.93	PASS
Band4	5	20375	25	#0	16QAM	4.48	4.84	PASS
Band4	5	20375	25	#0	64QAM	4.48	4.87	PASS

Band4	10	20000	50	#0	QPSK	9.01	9.69	PASS
Band4	10	20000	50	#0	16QAM	8.97	9.65	PASS
Band4	10	20000	50	#0	64QAM	8.99	9.53	PASS
Band4	10	20175	50	#0	QPSK	9.01	9.60	PASS
Band4	10	20175	50	#0	16QAM	8.96	9.77	PASS
Band4	10	20175	50	#0	64QAM	8.94	9.61	PASS
Band4	10	20350	50	#0	QPSK	8.97	9.54	PASS
Band4	10	20350	50	#0	16QAM	9.00	9.72	PASS
Band4	10	20350	50	#0	64QAM	8.98	9.53	PASS
Band4	15	20025	75	#0	QPSK	13.48	14.50	PASS
Band4	15	20025	75	#0	16QAM	13.49	14.57	PASS
Band4	15	20025	75	#0	64QAM	13.43	14.45	PASS
Band4	15	20175	75	#0	QPSK	13.45	14.46	PASS
Band4	15	20175	75	#0	16QAM	13.43	14.50	PASS
Band4	15	20175	75	#0	64QAM	13.39	14.29	PASS
Band4	15	20325	75	#0	QPSK	13.45	14.52	PASS
Band4	15	20325	75	#0	16QAM	13.46	14.34	PASS
Band4	15	20325	75	#0	64QAM	13.46	14.37	PASS
Band4	20	20050	100	#0	QPSK	17.96	19.31	PASS
Band4	20	20050	100	#0	16QAM	17.96	19.04	PASS
Band4	20	20050	100	#0	64QAM	17.97	19.14	PASS
Band4	20	20175	100	#0	QPSK	17.99	19.14	PASS
Band4	20	20175	100	#0	16QAM	17.93	19.02	PASS
Band4	20	20175	100	#0	64QAM	17.92	19.08	PASS
Band4	20	20300	100	#0	QPSK	17.93	19.11	PASS
Band4	20	20300	100	#0	16QAM	18.02	19.31	PASS
Band4	20	20300	100	#0	64QAM	17.92	19.35	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band5	1.4	20407	6	#0	QPSK	1.10	1.26	PASS
Band5	1.4	20407	6	#0	16QAM	1.10	1.30	PASS
Band5	1.4	20407	6	#0	64QAM	1.09	1.29	PASS
Band5	1.4	20525	6	#0	QPSK	1.10	1.27	PASS
Band5	1.4	20525	6	#0	16QAM	1.09	1.29	PASS
Band5	1.4	20525	6	#0	64QAM	1.09	1.29	PASS
Band5	1.4	20643	6	#0	QPSK	1.10	1.27	PASS
Band5	1.4	20643	6	#0	16QAM	1.10	1.26	PASS
Band5	1.4	20643	6	#0	64QAM	1.09	1.27	PASS
Band5	3	20415	15	#0	QPSK	2.70	2.90	PASS
Band5	3	20415	15	#0	16QAM	2.69	2.92	PASS
Band5	3	20415	15	#0	64QAM	2.70	2.91	PASS
Band5	3	20525	15	#0	QPSK	2.69	2.90	PASS
Band5	3	20525	15	#0	16QAM	2.69	2.88	PASS

Band5	3	20525	15	#0	64QAM	2.70	2.89	PASS
Band5	3	20635	15	#0	QPSK	2.69	2.89	PASS
Band5	3	20635	15	#0	16QAM	2.69	2.91	PASS
Band5	3	20635	15	#0	64QAM	2.70	2.91	PASS
Band5	5	20425	25	#0	QPSK	4.51	4.89	PASS
Band5	5	20425	25	#0	16QAM	4.49	4.89	PASS
Band5	5	20425	25	#0	64QAM	4.49	4.90	PASS
Band5	5	20525	25	#0	QPSK	4.50	5.74	PASS
Band5	5	20525	25	#0	16QAM	4.49	4.89	PASS
Band5	5	20525	25	#0	64QAM	4.52	4.87	PASS
Band5	5	20625	25	#0	QPSK	4.50	4.87	PASS
Band5	5	20625	25	#0	16QAM	4.51	4.91	PASS
Band5	5	20625	25	#0	64QAM	4.48	4.85	PASS
Band5	10	20450	50	#0	QPSK	8.99	9.52	PASS
Band5	10	20450	50	#0	16QAM	8.96	9.72	PASS
Band5	10	20450	50	#0	64QAM	8.97	9.53	PASS
Band5	10	20525	50	#0	QPSK	9.00	9.61	PASS
Band5	10	20525	50	#0	16QAM	8.96	9.60	PASS
Band5	10	20525	50	#0	64QAM	8.99	9.75	PASS
Band5	10	20600	50	#0	QPSK	9.01	9.58	PASS
Band5	10	20600	50	#0	16QAM	9.02	9.61	PASS
Band5	10	20600	50	#0	64QAM	8.98	9.71	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band7	5	20775	25	#0	QPSK	4.50	4.81	PASS
Band7	5	20775	25	#0	16QAM	4.49	4.91	PASS
Band7	5	20775	25	#0	64QAM	4.50	4.91	PASS
Band7	5	21100	25	#0	QPSK	4.51	4.88	PASS
Band7	5	21100	25	#0	16QAM	4.50	4.85	PASS
Band7	5	21100	25	#0	64QAM	4.49	4.83	PASS
Band7	5	21425	25	#0	QPSK	4.51	4.92	PASS
Band7	5	21425	25	#0	16QAM	4.50	4.95	PASS
Band7	5	21425	25	#0	64QAM	4.48	4.88	PASS
Band7	10	20800	50	#0	QPSK	8.99	9.70	PASS
Band7	10	20800	50	#0	16QAM	8.99	9.67	PASS
Band7	10	20800	50	#0	64QAM	8.99	9.65	PASS
Band7	10	21100	50	#0	QPSK	8.97	9.73	PASS
Band7	10	21100	50	#0	16QAM	8.97	9.54	PASS
Band7	10	21100	50	#0	64QAM	8.99	9.66	PASS
Band7	10	21400	50	#0	QPSK	8.99	9.76	PASS
Band7	10	21400	50	#0	16QAM	8.97	9.59	PASS
Band7	10	21400	50	#0	64QAM	9.02	9.73	PASS
Band7	15	20825	75	#0	QPSK	13.51	14.35	PASS

Band7	15	20825	75	#0	16QAM	13.41	14.45	PASS
Band7	15	20825	75	#0	64QAM	13.45	14.31	PASS
Band7	15	21100	75	#0	QPSK	13.45	14.53	PASS
Band7	15	21100	75	#0	16QAM	13.50	14.39	PASS
Band7	15	21100	75	#0	64QAM	13.42	14.40	PASS
Band7	15	21375	75	#0	QPSK	13.42	14.34	PASS
Band7	15	21375	75	#0	16QAM	13.43	14.57	PASS
Band7	15	21375	75	#0	64QAM	13.46	14.50	PASS
Band7	20	20850	100	#0	QPSK	17.94	19.32	PASS
Band7	20	20850	100	#0	16QAM	17.96	19.23	PASS
Band7	20	20850	100	#0	64QAM	17.95	19.32	PASS
Band7	20	21100	100	#0	QPSK	17.98	19.28	PASS
Band7	20	21100	100	#0	16QAM	17.95	19.41	PASS
Band7	20	21100	100	#0	64QAM	17.93	19.10	PASS
Band7	20	21350	100	#0	QPSK	17.86	19.25	PASS
Band7	20	21350	100	#0	16QAM	17.94	19.10	PASS
Band7	20	21350	100	#0	64QAM	17.91	19.26	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band12	1.4	23017	6	#0	QPSK	1.09	1.27	PASS
Band12	1.4	23017	6	#0	16QAM	1.09	1.28	PASS
Band12	1.4	23017	6	#0	64QAM	1.10	1.29	PASS
Band12	1.4	23095	6	#0	QPSK	1.09	1.27	PASS
Band12	1.4	23095	6	#0	16QAM	1.09	1.28	PASS
Band12	1.4	23095	6	#0	64QAM	1.09	1.27	PASS
Band12	1.4	23173	6	#0	QPSK	1.10	1.39	PASS
Band12	1.4	23173	6	#0	16QAM	1.09	1.26	PASS
Band12	1.4	23173	6	#0	64QAM	1.10	1.31	PASS
Band12	3	23025	15	#0	QPSK	2.70	2.89	PASS
Band12	3	23025	15	#0	16QAM	2.70	2.93	PASS
Band12	3	23025	15	#0	64QAM	2.69	2.91	PASS
Band12	3	23095	15	#0	QPSK	2.70	2.91	PASS
Band12	3	23095	15	#0	16QAM	2.69	2.93	PASS
Band12	3	23095	15	#0	64QAM	2.68	2.90	PASS
Band12	3	23165	15	#0	QPSK	2.69	2.94	PASS
Band12	3	23165	15	#0	16QAM	2.69	3.07	PASS
Band12	3	23165	15	#0	64QAM	2.70	2.89	PASS
Band12	5	23035	25	#0	QPSK	4.50	5.10	PASS
Band12	5	23035	25	#0	16QAM	4.52	5.11	PASS
Band12	5	23035	25	#0	64QAM	4.52	5.07	PASS
Band12	5	23095	25	#0	QPSK	4.50	4.99	PASS
Band12	5	23095	25	#0	16QAM	4.51	5.03	PASS
Band12	5	23095	25	#0	64QAM	4.53	5.09	PASS

Band12	5	23155	25	#0	QPSK	4.50	5.14	PASS
Band12	5	23155	25	#0	16QAM	4.51	4.92	PASS
Band12	5	23155	25	#0	64QAM	4.51	5.07	PASS
Band12	10	23060	50	#0	QPSK	8.98	9.76	PASS
Band12	10	23060	50	#0	16QAM	8.96	9.89	PASS
Band12	10	23060	50	#0	64QAM	9.00	10.04	PASS
Band12	10	23095	50	#0	QPSK	9.03	9.84	PASS
Band12	10	23095	50	#0	16QAM	8.98	9.88	PASS
Band12	10	23095	50	#0	64QAM	8.98	9.94	PASS
Band12	10	23130	50	#0	QPSK	9.01	9.85	PASS
Band12	10	23130	50	#0	16QAM	8.98	9.97	PASS
Band12	10	23130	50	#0	64QAM	8.97	9.80	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band17	5	23755	25	#0	QPSK	4.49	5.12	PASS
Band17	5	23755	25	#0	16QAM	4.50	5.09	PASS
Band17	5	23755	25	#0	64QAM	4.51	5.03	PASS
Band17	5	23790	25	#0	QPSK	4.52	5.10	PASS
Band17	5	23790	25	#0	16QAM	4.48	5.05	PASS
Band17	5	23790	25	#0	64QAM	4.50	5.06	PASS
Band17	5	23825	25	#0	QPSK	4.51	5.10	PASS
Band17	5	23825	25	#0	16QAM	4.51	5.13	PASS
Band17	5	23825	25	#0	64QAM	4.54	5.11	PASS
Band17	10	23780	50	#0	QPSK	8.99	9.82	PASS
Band17	10	23780	50	#0	16QAM	8.98	9.94	PASS
Band17	10	23780	50	#0	64QAM	8.98	9.87	PASS
Band17	10	23790	50	#0	QPSK	9.02	9.93	PASS
Band17	10	23790	50	#0	16QAM	8.98	10.40	PASS
Band17	10	23790	50	#0	64QAM	9.01	9.86	PASS
Band17	10	23800	50	#0	QPSK	8.99	10.08	PASS
Band17	10	23800	50	#0	16QAM	8.98	9.93	PASS
Band17	10	23800	50	#0	64QAM	9.04	9.93	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band25	1.4	26047	6	#0	QPSK	1.10	1.25	PASS
Band25	1.4	26047	6	#0	16QAM	1.09	1.28	PASS
Band25	1.4	26047	6	#0	64QAM	1.09	1.26	PASS
Band25	1.4	26365	6	#0	QPSK	1.10	1.25	PASS
Band25	1.4	26365	6	#0	16QAM	1.10	1.28	PASS
Band25	1.4	26365	6	#0	64QAM	1.10	1.27	PASS
Band25	1.4	26683	6	#0	QPSK	1.10	1.28	PASS
Band25	1.4	26683	6	#0	16QAM	1.09	1.28	PASS

Band25	1.4	26683	6	#0	64QAM	1.09	1.24	PASS
Band25	3	26055	15	#0	QPSK	2.70	2.90	PASS
Band25	3	26055	15	#0	16QAM	2.68	2.90	PASS
Band25	3	26055	15	#0	64QAM	2.69	2.91	PASS
Band25	3	26365	15	#0	QPSK	2.69	2.92	PASS
Band25	3	26365	15	#0	16QAM	2.69	2.91	PASS
Band25	3	26365	15	#0	64QAM	2.69	2.87	PASS
Band25	3	26675	15	#0	QPSK	2.68	2.90	PASS
Band25	3	26675	15	#0	16QAM	2.68	2.91	PASS
Band25	3	26675	15	#0	64QAM	2.69	2.91	PASS
Band25	5	26065	25	#0	QPSK	4.52	5.01	PASS
Band25	5	26065	25	#0	16QAM	4.51	5.09	PASS
Band25	5	26065	25	#0	64QAM	4.52	5.03	PASS
Band25	5	26365	25	#0	QPSK	4.51	5.02	PASS
Band25	5	26365	25	#0	16QAM	4.51	5.15	PASS
Band25	5	26365	25	#0	64QAM	4.49	5.12	PASS
Band25	5	26665	25	#0	QPSK	4.50	5.08	PASS
Band25	5	26665	25	#0	16QAM	4.49	5.02	PASS
Band25	5	26665	25	#0	64QAM	4.51	5.07	PASS
Band25	10	26090	50	#0	QPSK	8.97	9.89	PASS
Band25	10	26090	50	#0	16QAM	8.97	9.91	PASS
Band25	10	26090	50	#0	64QAM	8.99	9.95	PASS
Band25	10	26365	50	#0	QPSK	9.03	9.90	PASS
Band25	10	26365	50	#0	16QAM	8.98	9.84	PASS
Band25	10	26365	50	#0	64QAM	8.98	9.96	PASS
Band25	10	26640	50	#0	QPSK	8.98	9.86	PASS
Band25	10	26640	50	#0	16QAM	8.94	9.65	PASS
Band25	10	26640	50	#0	64QAM	8.96	10.07	PASS
Band25	15	26115	75	#0	QPSK	13.48	15.02	PASS
Band25	15	26115	75	#0	16QAM	13.44	14.74	PASS
Band25	15	26115	75	#0	64QAM	13.47	14.80	PASS
Band25	15	26365	75	#0	QPSK	13.43	14.70	PASS
Band25	15	26365	75	#0	16QAM	13.46	14.83	PASS
Band25	15	26365	75	#0	64QAM	13.45	14.67	PASS
Band25	15	26615	75	#0	QPSK	13.46	14.92	PASS
Band25	15	26615	75	#0	16QAM	13.41	14.98	PASS
Band25	15	26615	75	#0	64QAM	13.45	14.59	PASS
Band25	20	26140	100	#0	QPSK	17.95	19.23	PASS
Band25	20	26140	100	#0	16QAM	17.95	19.44	PASS
Band25	20	26140	100	#0	64QAM	17.96	19.66	PASS
Band25	20	26365	100	#0	QPSK	17.95	19.40	PASS
Band25	20	26365	100	#0	16QAM	17.94	19.40	PASS
Band25	20	26365	100	#0	64QAM	17.93	19.67	PASS

Band25	20	26590	100	#0	QPSK	17.94	19.38	PASS
Band25	20	26590	100	#0	16QAM	17.92	19.52	PASS
Band25	20	26590	100	#0	64QAM	17.88	19.73	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band26(814-824)	1.4	26697	6	#0	QPSK	1.09	1.29	PASS
Band26(814-824)	1.4	26697	6	#0	16QAM	1.09	1.27	PASS
Band26(814-824)	1.4	26697	6	#0	64QAM	1.09	1.27	PASS
Band26(814-824)	1.4	26740	6	#0	QPSK	1.10	1.28	PASS
Band26(814-824)	1.4	26740	6	#0	16QAM	1.10	1.25	PASS
Band26(814-824)	1.4	26740	6	#0	64QAM	1.10	1.28	PASS
Band26(814-824)	1.4	26783	6	#0	QPSK	1.09	1.25	PASS
Band26(814-824)	1.4	26783	6	#0	16QAM	1.09	1.30	PASS
Band26(814-824)	1.4	26783	6	#0	64QAM	1.10	1.25	PASS
Band26(814-824)	3	26705	15	#0	QPSK	2.69	2.91	PASS
Band26(814-824)	3	26705	15	#0	16QAM	2.70	2.90	PASS
Band26(814-824)	3	26705	15	#0	64QAM	2.70	2.88	PASS
Band26(814-824)	3	26740	15	#0	QPSK	2.69	2.93	PASS
Band26(814-824)	3	26740	15	#0	16QAM	2.69	2.91	PASS
Band26(814-824)	3	26740	15	#0	64QAM	2.69	2.91	PASS
Band26(814-824)	3	26775	15	#0	QPSK	2.69	2.89	PASS
Band26(814-824)	3	26775	15	#0	16QAM	2.69	2.92	PASS
Band26(814-824)	3	26775	15	#0	64QAM	2.70	2.88	PASS
Band26(814-824)	5	26715	25	#0	QPSK	4.48	4.91	PASS
Band26(814-824)	5	26715	25	#0	16QAM	4.49	4.85	PASS
Band26(814-824)	5	26715	25	#0	64QAM	4.50	4.85	PASS
Band26(814-824)	5	26740	25	#0	QPSK	4.50	4.91	PASS
Band26(814-824)	5	26740	25	#0	16QAM	4.50	4.82	PASS
Band26(814-824)	5	26740	25	#0	64QAM	4.48	4.84	PASS
Band26(814-824)	5	26765	25	#0	QPSK	4.50	4.86	PASS
Band26(814-824)	5	26765	25	#0	16QAM	4.50	4.84	PASS
Band26(814-824)	5	26765	25	#0	64QAM	4.49	5.03	PASS
Band26(814-824)	10	26740	50	#0	QPSK	8.97	9.52	PASS
Band26(814-824)	10	26740	50	#0	16QAM	8.94	9.74	PASS
Band26(814-824)	10	26740	50	#0	64QAM	8.97	9.67	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band26(824-849)	1.4	26797	6	#0	QPSK	1.09	1.27	PASS
Band26(824-849)	1.4	26797	6	#0	16QAM	1.10	1.25	PASS
Band26(824-849)	1.4	26797	6	#0	64QAM	1.10	1.29	PASS
Band26(824-849)	1.4	26915	6	#0	QPSK	1.09	1.28	PASS
Band26(824-849)	1.4	26915	6	#0	16QAM	1.10	1.27	PASS