



TEST REPORT

APPLICANT : Nubia Technology Co.,Ltd

PRODUCT NAME : NX619J

MODEL NAME : NX619J

BRAND NAME : NUBIA

FCC ID : 2AHJO-NX619J

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart D&H&L&M

RECEIPT DATE : 2018-11-22

TEST DATE : 2018-12-05 to 2019-01-21

ISSUE DATE : 2019-01-22

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Change History		
Version	Date	Reason for change
1.0	2019-01-22	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Nubia Technology Co.,Ltd
Applicant Address:	10/F, Tower A, Hans Innovation Mansion, North Ring Rd., No.9018, High-Tech Park, Nanshan District, Shenzhen, China
Manufacturer:	Nubia Technology Co.,Ltd
Manufacturer Address:	10/F, Tower A, Hans Innovation Mansion, North Ring Rd., No.9018, High-Tech Park, Nanshan District, Shenzhen, China

1.2. Equipment Under Test (EUT) Description

Product Name:	NX619J	
Serial No:	(N/A, marked #1 by test site)	
Hardware Version:	NX619J_V1AMB	
Software Version:	NX619J_ENCommon_V1.07	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 2 / 4 / 5 / 7/ 12 / 17/ 19 / 25 / 26 / 30 / 38 / 40 / 41	
Frequency Range:	LTE Band 2	Tx: 1850.7MHz -1909.3MHz
		Rx: 1930.7MHz -1989.3MHz
	LTE Band 4	Tx: 1710.7MHz -1754.3MHz
		Rx: 2110.7MHz - 2154.3MHz
	LTE Band 5	Tx: 824.7MHz -848.3MHz
		Rx: 869.7MHz – 893.3MHz
	LTE Band 7	Tx: 2502.5MHz - 2567.5MHz
		Rx: 2622.5MHz – 2687.5MHz
	LTE Band 12	Tx: 699.7MHz - 715.3MHz
		Rx: 729.7MHz – 745.3MHz
	LTE Band 17	Tx: 706.5MHz - 713.5MHz
		Rx: 736.5MHz – 743.5MHz
	LTE Band 19	Tx:832.5MHz-842.5MHz
		Rx:877.5MHz-887.5MHz



Frequency Range:	LTE Band 25	Tx:1850.7MHz-1914.3MHz
		Rx:1930.7MHz-1994.3MHz
	LTE Band 26	Tx:824.7MHz-848.3MHz
		Rx:869.7MHz-893.3MHz
	LTE Band 30	Tx: 2307.5MHz – 2312.5MHz
		Rx: 2352.5MHz – 2357.5MHz
	LTE Band 38	Tx: 2572.5MHz - 2617.5MHz
		Rx: 2572.5MHz – 2617.5MHz
	LTE Band 40	Block A Tx: 2307.5MHz – 2312.5MHz
		Block A Rx: 2307.5MHz – 2312.5MHz
		Block B Tx: 2352.5MHz – 2357.5MHz
		Block B Rx: 2352.5MHz – 2357.5MHz
LTE Band 41	Tx:2498.5MHz-2687.5MHz	
	Rx:2498.5MHz-2687.5MHz	
Channel Bandwidth	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 4	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 5	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 7	5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
	LTE Band 19	5 MHz, 10MHz, 15 MHz
	LTE Band 25	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 26	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz
	LTE Band 30	5 MHz, 10MHz
	LTE Band 38	5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 40	5 MHz, 10MHz
	LTE Band 41	5 MHz, 10MHz, 15 MHz, 20 MHz



Antenna Type:	PIFA Antenna	
Antenna Gain:	Top Antenna	
	LTE Band 2	1.48 dBi
	LTE Band 4	1.34 dBi
	LTE Band 5	1.31 dBi
	LTE Band 7	1.80 dBi
	LTE Band 12	1.55 dBi
	LTE Band 17	1.52 dBi
	LTE Band 19	1.35 dBi
	LTE Band 25	1.48 dBi
	LTE Band 26	1.33 dBi
	LTE Band 30	1.42 dBi
	LTE Band 38	1.81 dBi
	LTE Band 40	1.71 dBi
	LTE Band 41	1.75 dBi
Antenna Gain:	Bottom Antenna	
	LTE Band 2	1.22 dBi
	LTE Band 4	1.34 dBi
	LTE Band 5	1.36 dBi
	LTE Band 7	1.80 dBi
	LTE Band 12	1.50 dBi
	LTE Band 17	1.41 dBi
	LTE Band 19	1.35 dBi
	LTE Band 25	1.36 dBi
	LTE Band 26	1.22 dBi
	LTE Band 30	1.39 dBi
	LTE Band 38	1.78 dBi
	LTE Band 40	1.67 dBi
	LTE Band 41	1.71 dBi



Accessory Information:	Battery	
	Brand Name:	ATL
	Model No.:	Li3937T44P6h886639
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	3800mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	AC Adapter 1	
	Brand Name:	CHENYANG
	Model No.:	CYNBY090200-A00
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V ~ 50/60Hz 0.5A
	Rated Output:	5V=3.0A; 9V=2.0A;12V=1.5A
	AC Adapter 2	
	Brand Name:	XINSPower
	Model No.:	Q183
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V ~ 50/60Hz 0.5A
Rated Output:	3.6~6V=3.0A; 6~9V=2.0A;9~12V=1.5A	

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Emission Designator

LTE B2		Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	
1.4	1M09G7D	1M10W7D	1M10W7D	
3	2M71G7D	2M70W7D	2M71 W7D	
5	4M50G7D	4M50W7D	4M51W7D	
10	8M98G7D	8M96W7D	9M01W7D	
15	13M5G7D	13M5W7D	13M5W7D	
20	18M0G7D	18M0W7D	18M0W7D	
LTE B4		Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	
1.4	1M10G7D	1M10W7D	1M09W7D	
3	2M70G7D	2M70W7D	2M70W7D	
5	4M50G7D	4M50W7D	4M50W7D	
10	8M99G7D	8M97W7D	8M99W7D	
15	13M5G7D	13M5W7D	13M5W7D	
20	17M9G7D	18M0W7D	17M9W7D	
LTE B5		Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	
1.4	1M09G7D	1M10W7D	1M09W7D	
3	2M71G7D	2M71W7D	2M70W7D	
5	4M50G7D	4M50W7D	4M51W7D	
10	9M01G7D	8M98W7D	9M02W7D	
LTE B7		Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	
5	4M51G7D	4M51W7D	4M51W7D	
10	9M01G7D	8M97W7D	8M97W7D	
15	13M5G7D	13M5W7D	13M5W7D	
20	17M9G7D	17M9W7D	17M9W7D	
LTE B12		Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	
1.4	1M10G7D	1M10W7D	1M10W7D	
3	2M71G7D	2M71W7D	2M71W7D	
5	4M52G7D	4M52W7D	4M51W7D	
10	9M06G7D	9M03W7D	9M02W7D	



Emission Designator (99%OBW)			
LTE B17			
BW(MHz)	QPSK	16QAM	64QAM
5	4M53G7D	4M52W7D	4M52W7D
10	8M96G7D	8M90W7D	8M91W7D
LTE B19			
BW(MHz)	QPSK	16QAM	64QAM
5	4M50G7D	4M51W7D	4M51W7D
10	9M00G7D	8M96W7D	8M95W7D
15	13M4G7D	13M4W7D	13M4W7D
LTE B25			
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M10G7D	1M10W7D	1M10W7D
3	2M71G7D	2M70W7D	2M70W7D
5	4M50G7D	4M51W7D	4M50W7D
10	9M02G7D	8M97W7D	8M96W7D
15	13M5G7D	13M5W7D	13M5W7D
20	18M0G7D	18M0W7D	17M9W7D
LTE B26			
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M10G7D	1M10W7D	1M10W7D
3	2M71G7D	2M72W7D	2M71W7D
5	4M51G7D	4M51W7D	4M52W7D
10	9M00G7D	8M98W7D	8M98W7D
15	13M5G7D	13M5W7D	13M5W7D
LTE B30			
BW(MHz)	QPSK	16QAM	64QAM
5	4M51G7D	4M51W7D	4M50W7D
10	8M99G7D	8M95W7D	8M96W7D
LTE B38			
BW(MHz)	QPSK	16QAM	64QAM
5	4M51G7D	4M52W7D	4M51W7D
10	8M98G7D	8M97W7D	8M98W7D
15	13M5G7D	13M5W7D	13M5W7D
20	17M9G7D	17M9W7D	18M0W7D



LTE B40 Block A	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M50G7D	4M50W7D	4M49W7D
10	8M97G7D	8M94W7D	8M97W7D
LTE B40 Block B	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M49G7D	4M49W7D	4M49W7D
10	8M98G7D	8M98W7D	8M97W7D
LTE B41	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	5M12G7D	5M34W7D	5M29W7D
10	9M02G7D	9M03W7D	9M03W7D
15	13M5G7D	13M5W7D	13M5W7D
20	18M0G7D	18M0W7D	17M9W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result
2.1046, 22.913(a)(2), 24.232(c), 27.50(c)(10) 27.50(d)(4), 27.50(h)(2) 27.50(a)(3)	Transmitter Conducted Output Power and ERP/EIRP	Dec 26, 2018 Jan 21, 2019	Gao Mingzhou Wang Dalong	PASS
2.1049	Occupied Bandwidth	Dec 26, 2018 Jan 16, 2019	Gao Mingzhou	PASS
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Jan 18, 2019	Gao Mingzhou	PASS
24.232(d), 27.50(d)(5)	Peak to Average Ratio	Dec 24, 2018 Jan 11, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Dec 26, 2018 Jan 18, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Dec 26, 2018 Jan 02, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	Dec 05, 2018 Jan 13, 2019	Wang Dalong	PASS

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017) and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.



1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR Part 2, Part 22H, Part 24E and 27D&H&L&M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for LTE Band 2/25, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

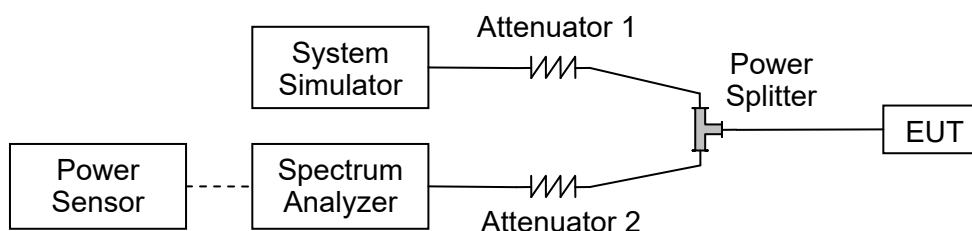
According to FCC section 27.50 (d) for LTE Band 4, fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

According to FCC section 22.913 (a.2) for LTE Band 5/26, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h) for LTE Band 7/41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to FCC section 27.50 (c) for LTE Band 12/17, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts ERP.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.



2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

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

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

2.1.4. Result

Note 1: For band 30, the spectrum is set RBW as 5MHz for 10MHz mode.

Note 2: For band 40, the duty cycle does not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands.



Top Antenna (Down Power)

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	17.71	17.64	17.77
20	QPSK	1	49	17.41	17.27	17.20
20	QPSK	1	99	17.40	17.29	17.37
20	QPSK	50	0	16.65	16.49	16.66
20	QPSK	50	24	16.51	16.42	16.42
20	QPSK	50	50	16.41	16.32	16.46
20	QPSK	100	0	16.50	16.36	16.52
20	16QAM	1	0	17.26	17.10	16.91
20	16QAM	1	49	16.71	16.56	16.83
20	16QAM	1	99	17.16	16.63	16.42
20	16QAM	50	0	15.67	15.43	15.63
20	16QAM	50	24	15.57	15.46	15.29
20	16QAM	50	50	15.44	15.27	15.49
20	16QAM	100	0	15.65	15.46	15.61
20	64QAM	1	0	16.88	16.74	16.79
20	64QAM	1	49	16.91	16.38	16.27
20	64QAM	1	99	16.41	16.66	16.52
20	64QAM	50	0	15.71	15.37	15.64
20	64QAM	50	24	15.39	15.40	15.29
20	64QAM	50	50	15.38	15.29	15.40
20	64QAM	100	0	15.25	15.29	15.58



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	17.68	17.47	17.42
15	QPSK	1	37	17.30	17.26	17.27
15	QPSK	1	74	17.38	17.32	17.26
15	QPSK	36	0	16.56	16.51	16.37
15	QPSK	36	20	16.52	16.44	16.45
15	QPSK	36	39	16.46	16.43	16.32
15	QPSK	75	0	16.57	16.45	16.37
15	16QAM	1	0	16.94	16.64	16.69
15	16QAM	1	37	16.62	16.83	16.87
15	16QAM	1	74	16.59	16.58	16.55
15	16QAM	36	0	15.65	15.58	15.27
15	16QAM	36	20	15.55	15.49	15.30
15	16QAM	36	39	15.51	15.52	15.41
15	16QAM	75	0	15.62	15.51	15.53
15	64QAM	1	0	16.84	16.69	16.71
15	64QAM	1	37	16.42	16.52	16.26
15	64QAM	1	74	15.63	15.58	15.44
15	64QAM	36	0	15.56	15.53	15.16
15	64QAM	36	20	15.49	15.48	15.41
15	64QAM	36	39	15.60	15.61	15.45
15	64QAM	75	0	15.59	15.57	15.65



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	17.68	17.66	17.46
10	QPSK	1	25	17.33	17.33	17.20
10	QPSK	1	49	17.63	17.57	17.23
10	QPSK	25	0	16.51	16.48	16.44
10	QPSK	25	12	16.58	16.51	16.41
10	QPSK	25	25	16.52	16.38	16.44
10	QPSK	50	0	16.47	16.38	16.41
10	16QAM	1	0	16.93	16.63	16.93
10	16QAM	1	25	16.51	16.63	16.42
10	16QAM	1	49	16.80	16.74	16.87
10	16QAM	25	0	15.68	15.53	15.53
10	16QAM	25	12	15.70	15.51	15.45
10	16QAM	25	25	15.64	15.51	15.40
10	16QAM	50	0	15.62	15.54	15.56
10	64QAM	1	0	16.83	16.91	16.51
10	64QAM	1	25	16.93	16.32	16.40
10	64QAM	1	49	17.08	16.73	16.24
10	64QAM	25	0	15.58	15.59	15.45
10	64QAM	25	12	15.70	15.50	15.48
10	64QAM	25	25	15.59	15.52	15.53
10	64QAM	50	0	15.59	15.47	15.52



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	17.49	17.40	17.38
5	QPSK	1	12	17.29	17.16	17.28
5	QPSK	1	24	17.34	17.28	17.37
5	QPSK	12	0	16.52	16.47	16.39
5	QPSK	12	7	16.41	16.39	16.37
5	QPSK	12	13	16.51	16.38	16.37
5	QPSK	25	0	16.50	16.47	16.31
5	16QAM	1	0	16.91	16.92	16.52
5	16QAM	1	12	16.84	16.82	16.29
5	16QAM	1	24	16.52	16.37	16.52
5	16QAM	12	0	15.59	15.28	15.51
5	16QAM	12	7	15.64	15.24	15.50
5	16QAM	12	13	15.59	15.30	15.40
5	16QAM	25	0	15.60	15.39	15.46
5	64QAM	1	0	16.71	16.33	16.32
5	64QAM	1	12	16.37	16.46	16.48
5	64QAM	1	24	16.40	16.51	16.41
5	64QAM	12	0	15.66	15.26	15.42
5	64QAM	12	7	15.58	15.46	15.47
5	64QAM	12	13	15.56	15.29	15.41
5	64QAM	25	0	15.48	15.45	15.52



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	17.40	17.27	17.37
3	QPSK	1	8	17.30	17.43	17.35
3	QPSK	1	14	17.27	17.24	17.33
3	QPSK	8	0	16.47	16.36	16.36
3	QPSK	8	4	16.53	16.43	16.26
3	QPSK	8	7	16.51	16.29	16.38
3	QPSK	15	0	16.45	16.44	16.34
3	16QAM	1	0	16.62	16.84	16.34
3	16QAM	1	8	16.48	16.71	16.21
3	16QAM	1	14	16.63	16.63	16.50
3	16QAM	8	0	15.66	15.38	15.50
3	16QAM	8	4	15.44	15.28	15.49
3	16QAM	8	7	15.63	15.26	15.48
3	16QAM	15	0	15.58	15.65	15.43
3	64QAM	1	0	16.62	16.22	16.17
3	64QAM	1	8	16.51	16.27	16.44
3	64QAM	1	14	16.61	16.53	16.44
3	64QAM	8	0	15.46	15.33	15.58
3	64QAM	8	4	15.45	15.31	15.48
3	64QAM	8	7	15.45	15.26	15.44
3	64QAM	15	0	15.48	15.46	15.43



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	17.35	17.23	17.21
1.4	QPSK	1	3	17.37	17.34	17.25
1.4	QPSK	1	5	17.25	17.23	17.23
1.4	QPSK	3	0	17.34	17.22	17.20
1.4	QPSK	3	1	17.45	17.28	17.17
1.4	QPSK	3	3	17.36	17.29	17.28
1.4	QPSK	6	0	16.33	16.40	16.23
1.4	16QAM	1	0	16.61	16.58	16.76
1.4	16QAM	1	3	16.56	16.46	16.68
1.4	16QAM	1	5	16.78	16.48	16.33
1.4	16QAM	3	0	16.45	16.46	16.36
1.4	16QAM	3	1	16.34	16.41	16.33
1.4	16QAM	3	3	16.51	16.36	16.16
1.4	16QAM	6	0	15.46	15.27	15.44
1.4	64QAM	1	0	16.39	16.72	16.37
1.4	64QAM	1	3	16.79	16.25	16.77
1.4	64QAM	1	5	16.49	16.45	16.36
1.4	64QAM	3	0	16.24	16.34	16.48
1.4	64QAM	3	1	16.48	16.36	16.22
1.4	64QAM	3	3	16.51	16.29	16.36
1.4	64QAM	6	0	15.48	15.36	15.25



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	18.66	18.69	18.63
20	QPSK	1	49	18.42	18.36	18.30
20	QPSK	1	99	18.50	18.27	18.17
20	QPSK	50	0	17.57	17.58	17.49
20	QPSK	50	24	17.37	17.41	17.40
20	QPSK	50	50	17.42	17.35	17.30
20	QPSK	100	0	17.39	17.44	17.35
20	16QAM	1	0	18.22	18.28	18.29
20	16QAM	1	49	17.62	17.59	17.59
20	16QAM	1	99	18.08	17.69	17.68
20	16QAM	50	0	16.66	16.67	16.65
20	16QAM	50	24	16.57	16.53	16.51
20	16QAM	50	50	16.53	16.53	16.36
20	16QAM	100	0	16.60	16.58	16.59
20	64QAM	1	0	17.93	17.84	17.63
20	64QAM	1	49	17.58	17.72	17.50
20	64QAM	1	99	17.78	17.60	17.49
20	64QAM	50	0	16.67	16.67	16.66
20	64QAM	50	24	16.52	16.56	16.54
20	64QAM	50	50	16.51	16.46	16.30
20	64QAM	100	0	16.49	16.58	16.50



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	18.66	18.59	18.62
15	QPSK	1	37	18.31	18.47	18.19
15	QPSK	1	74	18.37	18.42	18.13
15	QPSK	36	0	17.52	17.47	17.43
15	QPSK	36	20	17.41	17.44	17.32
15	QPSK	36	39	17.42	17.36	17.20
15	QPSK	75	0	17.48	17.42	17.44
15	16QAM	1	0	17.95	17.76	18.19
15	16QAM	1	37	17.52	18.11	17.70
15	16QAM	1	74	17.63	17.82	17.41
15	16QAM	36	0	16.69	16.63	16.56
15	16QAM	36	20	16.56	16.62	16.45
15	16QAM	36	39	16.59	16.52	16.34
15	16QAM	75	0	16.51	16.56	16.51
15	64QAM	1	0	17.85	18.22	17.75
15	64QAM	1	37	17.34	17.67	17.52
15	64QAM	1	74	16.63	16.64	16.51
15	64QAM	36	0	16.51	16.45	16.41
15	64QAM	36	20	16.40	16.48	16.34
15	64QAM	36	39	16.56	16.44	16.52
15	64QAM	75	0	16.59	16.58	16.72



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	18.62	18.63	18.44
10	QPSK	1	25	18.39	18.67	18.46
10	QPSK	1	49	18.33	18.55	18.31
10	QPSK	25	0	17.63	17.70	17.43
10	QPSK	25	12	17.53	17.67	17.43
10	QPSK	25	25	17.56	17.60	17.40
10	QPSK	50	0	17.56	17.63	17.43
10	16QAM	1	0	17.93	17.81	18.05
10	16QAM	1	25	17.77	18.00	18.08
10	16QAM	1	49	18.00	17.90	17.50
10	16QAM	25	0	16.74	16.80	16.56
10	16QAM	25	12	16.78	16.71	16.54
10	16QAM	25	25	16.58	16.70	16.56
10	16QAM	50	0	16.72	16.66	16.62
10	64QAM	1	0	18.16	17.99	17.53
10	64QAM	1	25	17.70	17.67	17.71
10	64QAM	1	49	17.68	17.90	17.41
10	64QAM	25	0	16.65	16.71	16.60
10	64QAM	25	12	16.64	16.69	16.52
10	64QAM	25	25	16.66	16.67	16.49
10	64QAM	50	0	16.65	16.69	16.60



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	18.58	18.67	18.59
5	QPSK	1	12	18.52	18.53	18.33
5	QPSK	1	24	18.52	18.54	18.36
5	QPSK	12	0	17.54	17.57	17.36
5	QPSK	12	7	17.57	17.54	17.50
5	QPSK	12	13	17.42	17.65	17.46
5	QPSK	25	0	17.57	17.66	17.40
5	16QAM	1	0	18.12	17.68	18.01
5	16QAM	1	12	18.10	17.67	17.93
5	16QAM	1	24	18.17	17.48	17.81
5	16QAM	12	0	16.68	16.88	16.60
5	16QAM	12	7	16.65	16.77	16.63
5	16QAM	12	13	16.63	16.67	16.67
5	16QAM	25	0	16.61	16.71	16.42
5	64QAM	1	0	18.12	17.82	17.81
5	64QAM	1	12	17.41	17.81	17.68
5	64QAM	1	24	17.51	17.73	17.68
5	64QAM	12	0	16.73	16.80	16.63
5	64QAM	12	7	16.67	16.71	16.55
5	64QAM	12	13	16.66	16.71	16.37
5	64QAM	25	0	16.57	16.71	16.55



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	18.47	18.61	18.35
3	QPSK	1	8	18.44	18.56	18.39
3	QPSK	1	14	18.35	18.49	18.41
3	QPSK	8	0	17.46	17.59	17.44
3	QPSK	8	4	17.54	17.64	17.42
3	QPSK	8	7	17.54	17.61	17.45
3	QPSK	15	0	17.49	17.58	17.36
3	16QAM	1	0	17.97	17.89	17.47
3	16QAM	1	8	17.70	17.73	17.66
3	16QAM	1	14	17.81	17.64	17.44
3	16QAM	8	0	16.81	16.78	16.67
3	16QAM	8	4	16.74	16.79	16.48
3	16QAM	8	7	16.61	16.72	16.65
3	16QAM	15	0	16.67	16.77	16.58
3	64QAM	1	0	17.80	17.52	17.61
3	64QAM	1	8	17.65	17.45	17.59
3	64QAM	1	14	17.66	17.49	17.58
3	64QAM	8	0	16.64	16.71	16.51
3	64QAM	8	4	16.68	16.62	16.48
3	64QAM	8	7	16.58	16.92	16.57
3	64QAM	15	0	16.56	16.77	16.64



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	18.39	18.54	18.28
1.4	QPSK	1	3	18.49	18.59	18.40
1.4	QPSK	1	5	18.33	18.40	18.22
1.4	QPSK	3	0	18.43	18.55	18.37
1.4	QPSK	3	1	18.45	18.49	18.19
1.4	QPSK	3	3	18.35	18.55	18.36
1.4	QPSK	6	0	17.38	17.45	17.45
1.4	16QAM	1	0	17.66	17.50	17.70
1.4	16QAM	1	3	17.90	17.57	17.77
1.4	16QAM	1	5	17.50	17.49	17.67
1.4	16QAM	3	0	17.40	17.67	17.57
1.4	16QAM	3	1	17.35	17.71	17.60
1.4	16QAM	3	3	17.62	17.64	17.53
1.4	16QAM	6	0	16.57	16.67	16.55
1.4	64QAM	1	0	17.73	17.63	17.29
1.4	64QAM	1	3	17.67	17.57	17.43
1.4	64QAM	1	5	17.92	17.49	17.35
1.4	64QAM	3	0	17.64	17.44	17.78
1.4	64QAM	3	1	17.72	17.50	17.31
1.4	64QAM	3	3	17.58	17.44	17.74
1.4	64QAM	6	0	16.44	16.52	16.50



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	22.49	22.43	22.41
10	QPSK	1	25	22.53	22.51	22.16
10	QPSK	1	49	22.43	22.10	21.97
10	QPSK	25	0	21.59	21.51	21.58
10	QPSK	25	12	21.57	21.42	21.29
10	QPSK	25	25	21.43	21.28	21.15
10	QPSK	50	0	21.59	21.47	21.19
10	16QAM	1	0	21.82	22.01	21.57
10	16QAM	1	25	21.93	21.65	21.61
10	16QAM	1	49	21.60	21.32	20.85
10	16QAM	25	0	20.50	20.49	20.35
10	16QAM	25	12	20.66	20.52	20.27
10	16QAM	25	25	20.50	20.32	20.19
10	16QAM	50	0	20.49	20.51	20.26
10	64QAM	1	0	21.88	21.95	21.50
10	64QAM	1	25	21.61	21.47	21.46
10	64QAM	1	49	21.58	21.10	21.01
10	64QAM	25	0	20.33	20.58	20.35
10	64QAM	25	12	20.48	20.53	20.28
10	64QAM	25	25	20.46	20.40	20.15
10	64QAM	50	0	20.46	20.45	20.31



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.23	22.52	22.08
5	QPSK	1	12	22.21	22.38	21.96
5	QPSK	1	24	22.19	22.43	21.85
5	QPSK	12	0	21.30	21.43	21.01
5	QPSK	12	7	21.32	21.55	20.96
5	QPSK	12	13	21.33	21.32	20.88
5	QPSK	25	0	21.33	21.41	20.94
5	16QAM	1	0	21.90	21.47	21.37
5	16QAM	1	12	21.92	21.78	21.02
5	16QAM	1	24	21.88	21.73	21.31
5	16QAM	12	0	20.40	20.62	20.07
5	16QAM	12	7	20.43	20.52	20.00
5	16QAM	12	13	20.34	20.47	19.97
5	16QAM	25	0	20.44	20.50	20.04
5	64QAM	1	0	21.45	21.88	21.19
5	64QAM	1	12	21.52	21.48	20.96
5	64QAM	1	24	21.54	21.39	20.98
5	64QAM	12	0	20.41	20.49	20.11
5	64QAM	12	7	20.43	20.51	20.05
5	64QAM	12	13	20.45	20.51	19.95
5	64QAM	25	0	20.49	20.54	20.05



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.25	22.50	22.08
3	QPSK	1	8	22.23	22.50	21.91
3	QPSK	1	14	22.26	22.36	21.91
3	QPSK	8	0	21.32	21.39	20.96
3	QPSK	8	4	21.36	21.41	20.86
3	QPSK	8	7	21.37	21.42	20.83
3	QPSK	15	0	21.30	21.44	20.98
3	16QAM	1	0	21.84	21.80	20.86
3	16QAM	1	8	21.50	21.84	20.82
3	16QAM	1	14	21.41	21.64	20.83
3	16QAM	8	0	20.47	20.52	20.13
3	16QAM	8	4	20.44	20.50	20.02
3	16QAM	8	7	20.39	20.45	19.91
3	16QAM	15	0	20.47	20.47	20.08
3	64QAM	1	0	21.76	21.34	21.39
3	64QAM	1	8	21.43	21.34	20.89
3	64QAM	1	14	21.43	21.22	20.88
3	64QAM	8	0	20.51	20.42	20.00
3	64QAM	8	4	20.33	20.65	20.01
3	64QAM	8	7	20.55	20.45	19.88
3	64QAM	15	0	20.29	20.39	20.01



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.28	22.29	21.81
1.4	QPSK	1	3	22.35	22.36	21.94
1.4	QPSK	1	5	22.19	22.25	21.70
1.4	QPSK	3	0	22.27	22.47	21.75
1.4	QPSK	3	1	22.25	22.43	21.92
1.4	QPSK	3	3	22.29	22.50	21.73
1.4	QPSK	6	0	21.30	21.41	20.77
1.4	16QAM	1	0	21.76	21.70	20.91
1.4	16QAM	1	3	21.73	21.88	20.79
1.4	16QAM	1	5	21.38	21.70	20.75
1.4	16QAM	3	0	21.39	21.37	20.92
1.4	16QAM	3	1	21.38	21.33	20.95
1.4	16QAM	3	3	21.35	21.30	20.90
1.4	16QAM	6	0	20.28	20.69	19.90
1.4	64QAM	1	0	21.19	21.38	20.92
1.4	64QAM	1	3	21.19	21.48	21.01
1.4	64QAM	1	5	21.15	21.31	20.87
1.4	64QAM	3	0	21.35	21.55	20.92
1.4	64QAM	3	1	21.36	21.43	20.94
1.4	64QAM	3	3	21.32	21.40	20.87
1.4	64QAM	6	0	20.44	20.36	19.87



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	16.42	16.13	16.17
20	QPSK	1	49	16.13	15.95	15.89
20	QPSK	1	99	16.15	15.92	16.15
20	QPSK	50	0	15.35	15.06	15.17
20	QPSK	50	24	15.19	15.08	15.18
20	QPSK	50	50	15.21	15.03	15.11
20	QPSK	100	0	15.28	15.05	15.21
20	16QAM	1	0	16.12	15.29	15.58
20	16QAM	1	49	15.51	15.55	15.30
20	16QAM	1	99	15.83	15.45	15.30
20	16QAM	50	0	14.42	14.19	14.29
20	16QAM	50	24	14.33	14.17	14.26
20	16QAM	50	50	14.34	14.08	14.15
20	16QAM	100	0	14.32	14.11	14.29
20	64QAM	1	0	15.66	15.26	15.51
20	64QAM	1	49	15.85	14.96	15.26
20	64QAM	1	99	15.34	15.26	15.20
20	64QAM	50	0	14.33	14.12	14.27
20	64QAM	50	24	14.33	14.14	14.24
20	64QAM	50	50	14.37	14.09	14.13
20	64QAM	100	0	14.43	14.08	14.28



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	16.37	16.06	16.17
15	QPSK	1	37	16.31	15.97	16.09
15	QPSK	1	74	16.14	15.93	16.07
15	QPSK	36	0	15.36	15.00	15.19
15	QPSK	36	20	15.30	15.02	15.21
15	QPSK	36	39	15.29	14.97	15.12
15	QPSK	75	0	15.22	15.10	15.14
15	16QAM	1	0	15.53	15.14	15.28
15	16QAM	1	37	15.86	15.55	15.32
15	16QAM	1	74	15.20	15.37	15.55
15	16QAM	36	0	14.50	14.16	14.22
15	16QAM	36	20	14.41	14.22	14.29
15	16QAM	36	39	14.28	14.16	14.17
15	16QAM	75	0	14.33	14.14	14.27
15	64QAM	1	0	15.52	15.14	15.70
15	64QAM	1	37	15.87	15.22	15.40
15	64QAM	1	74	14.43	14.22	14.25
15	64QAM	36	0	14.30	14.10	14.21
15	64QAM	36	20	14.28	14.12	14.21
15	64QAM	36	39	14.43	14.14	14.23
15	64QAM	75	0	14.36	14.29	14.20



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	16.34	16.04	15.98
10	QPSK	1	25	16.31	15.96	16.07
10	QPSK	1	49	16.21	16.01	16.03
10	QPSK	25	0	15.25	15.04	15.15
10	QPSK	25	12	15.31	15.06	15.10
10	QPSK	25	25	15.28	15.03	15.07
10	QPSK	50	0	15.22	15.10	15.09
10	16QAM	1	0	15.90	15.28	15.38
10	16QAM	1	25	15.84	15.15	15.29
10	16QAM	1	49	15.23	15.42	15.41
10	16QAM	25	0	14.49	14.14	14.24
10	16QAM	25	12	14.41	14.08	14.25
10	16QAM	25	25	14.36	14.08	14.26
10	16QAM	50	0	14.34	14.02	14.20
10	64QAM	1	0	15.50	15.59	15.47
10	64QAM	1	25	15.61	15.07	15.62
10	64QAM	1	49	15.41	15.18	15.26
10	64QAM	25	0	14.40	14.15	14.24
10	64QAM	25	12	14.40	14.15	14.18
10	64QAM	25	25	14.29	14.09	14.24
10	64QAM	50	0	14.32	14.14	14.22



LTE Band7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	16.32	16.04	16.04
5	QPSK	1	12	16.23	16.05	16.07
5	QPSK	1	24	16.23	15.97	16.04
5	QPSK	12	0	15.29	15.02	15.12
5	QPSK	12	7	15.27	15.04	15.09
5	QPSK	12	13	15.34	15.03	15.11
5	QPSK	25	0	15.31	14.98	15.05
5	16QAM	1	0	15.61	15.19	15.72
5	16QAM	1	12	15.61	15.63	15.12
5	16QAM	1	24	15.57	15.03	15.29
5	16QAM	12	0	14.46	14.02	14.24
5	16QAM	12	7	14.41	14.23	14.32
5	16QAM	12	13	14.52	14.10	14.11
5	16QAM	25	0	14.43	14.16	14.17
5	64QAM	1	0	15.89	15.18	15.39
5	64QAM	1	12	15.78	15.31	15.20
5	64QAM	1	24	15.48	15.16	15.63
5	64QAM	12	0	14.42	14.22	14.21
5	64QAM	12	7	14.51	14.20	14.36
5	64QAM	12	13	14.30	13.97	14.18
5	64QAM	25	0	14.41	14.15	14.20



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	21.73	21.93	21.93
10	QPSK	1	25	21.92	21.94	21.86
10	QPSK	1	49	22.06	21.97	21.86
10	QPSK	25	0	21.03	21.08	20.89
10	QPSK	25	12	21.01	21.05	20.90
10	QPSK	25	25	21.09	21.03	20.96
10	QPSK	50	0	21.00	22.05	20.87
10	16QAM	1	0	21.00	21.18	21.51
10	16QAM	1	25	21.19	21.24	20.78
10	16QAM	1	49	21.59	21.14	21.15
10	16QAM	25	0	20.03	20.14	19.99
10	16QAM	25	12	20.11	20.14	20.02
10	16QAM	25	25	20.19	20.07	19.88
10	16QAM	50	0	20.15	20.09	19.93
10	64QAM	1	0	20.94	21.10	21.43
10	64QAM	1	25	20.93	21.29	21.34
10	64QAM	1	49	21.15	21.46	21.03
10	64QAM	25	0	20.13	20.10	19.97
10	64QAM	25	12	20.24	20.06	20.04
10	64QAM	25	25	20.20	20.08	19.95
10	64QAM	50	0	20.11	20.14	19.98



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	21.88	22.04	21.91
5	QPSK	1	12	21.88	21.91	21.84
5	QPSK	1	24	22.05	21.91	21.84
5	QPSK	12	0	20.96	20.99	20.85
5	QPSK	12	7	20.96	21.08	20.79
5	QPSK	12	13	21.10	21.06	20.82
5	QPSK	25	0	20.93	21.00	20.88
5	16QAM	1	0	21.07	20.95	20.97
5	16QAM	1	12	21.22	21.24	21.02
5	16QAM	1	24	21.30	21.05	20.99
5	16QAM	12	0	19.93	20.13	19.87
5	16QAM	12	7	19.96	20.21	19.96
5	16QAM	12	13	19.96	20.10	19.91
5	16QAM	25	0	20.11	20.11	19.93
5	64QAM	1	0	20.85	20.97	20.81
5	64QAM	1	12	21.06	21.49	21.27
5	64QAM	1	24	21.20	21.46	21.29
5	64QAM	12	0	20.00	20.14	19.95
5	64QAM	12	7	19.96	20.06	19.93
5	64QAM	12	13	20.23	19.97	19.76
5	64QAM	25	0	20.21	20.04	19.97



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	21.89	22.04	21.93
3	QPSK	1	8	21.84	21.99	21.83
3	QPSK	1	14	21.87	22.03	21.90
3	QPSK	8	0	20.91	20.97	20.81
3	QPSK	8	4	20.98	20.93	20.85
3	QPSK	8	7	20.97	20.97	20.88
3	QPSK	15	0	20.93	20.94	20.87
3	16QAM	1	0	21.30	21.25	21.27
3	16QAM	1	8	21.47	21.28	21.28
3	16QAM	1	14	21.35	21.24	21.25
3	16QAM	8	0	19.98	20.04	19.94
3	16QAM	8	4	20.04	20.16	20.02
3	16QAM	8	7	20.18	20.23	19.88
3	16QAM	15	0	20.02	20.12	19.93
3	64QAM	1	0	20.88	21.18	20.99
3	64QAM	1	8	21.03	21.20	20.77
3	64QAM	1	14	20.98	21.13	20.79
3	64QAM	8	0	20.01	20.31	19.88
3	64QAM	8	4	20.18	20.07	19.87
3	64QAM	8	7	19.99	20.02	19.86
3	64QAM	15	0	19.94	20.15	19.94



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	21.85	21.89	21.74
1.4	QPSK	1	3	21.81	21.83	21.72
1.4	QPSK	1	5	21.83	21.86	21.70
1.4	QPSK	3	0	21.76	21.89	21.82
1.4	QPSK	3	1	21.86	21.96	21.85
1.4	QPSK	3	3	21.88	21.94	21.77
1.4	QPSK	6	0	20.82	20.87	20.68
1.4	16QAM	1	0	20.85	21.45	20.93
1.4	16QAM	1	3	21.07	21.48	21.05
1.4	16QAM	1	5	20.75	21.41	20.98
1.4	16QAM	3	0	20.93	20.95	20.80
1.4	16QAM	3	1	20.86	20.87	20.92
1.4	16QAM	3	3	20.95	20.81	20.88
1.4	16QAM	6	0	19.95	19.97	19.88
1.4	64QAM	1	0	20.81	20.80	20.65
1.4	64QAM	1	3	21.27	20.93	20.74
1.4	64QAM	1	5	20.80	20.86	20.67
1.4	64QAM	3	0	21.00	21.05	20.89
1.4	64QAM	3	1	21.11	20.98	20.91
1.4	64QAM	3	3	21.10	20.93	20.86
1.4	64QAM	6	0	20.00	19.90	19.95



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	21.78	22.02	21.91
10	QPSK	1	25	21.91	22.01	21.76
10	QPSK	1	49	21.94	21.94	21.84
10	QPSK	25	0	20.95	20.99	20.89
10	QPSK	25	12	20.97	21.04	20.84
10	QPSK	25	25	20.91	20.90	20.85
10	QPSK	50	0	20.94	21.01	20.87
10	16QAM	1	0	21.11	21.13	21.02
10	16QAM	1	25	21.42	21.12	21.05
10	16QAM	1	49	21.50	21.09	21.05
10	16QAM	25	0	20.11	20.07	20.00
10	16QAM	25	12	20.02	20.16	19.87
10	16QAM	25	25	20.05	20.16	19.95
10	16QAM	50	0	20.04	20.14	19.93
10	64QAM	1	0	21.17	21.14	21.08
10	64QAM	1	25	21.15	21.17	21.38
10	64QAM	1	49	21.04	21.40	21.03
10	64QAM	25	0	20.08	20.11	19.99
10	64QAM	25	12	20.08	20.09	19.96
10	64QAM	25	25	20.05	20.16	20.04
10	64QAM	50	0	20.05	20.02	19.95



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23790	23155
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	21.86	21.84	21.92
5	QPSK	1	12	21.84	22.01	21.86
5	QPSK	1	24	21.98	21.82	21.88
5	QPSK	12	0	20.95	20.94	20.84
5	QPSK	12	7	20.99	20.93	20.95
5	QPSK	12	13	20.96	20.91	20.93
5	QPSK	25	0	21.04	20.96	21.03
5	16QAM	1	0	21.21	21.32	21.13
5	16QAM	1	12	21.13	21.13	21.43
5	16QAM	1	24	21.50	21.48	20.96
5	16QAM	12	0	20.11	20.01	20.01
5	16QAM	12	7	20.11	20.10	20.01
5	16QAM	12	13	20.10	19.98	19.99
5	16QAM	25	0	20.01	20.09	20.05
5	64QAM	1	0	20.89	21.16	21.39
5	64QAM	1	12	21.18	21.10	20.84
5	64QAM	1	24	21.08	21.17	21.08
5	64QAM	12	0	20.05	20.15	20.03
5	64QAM	12	7	20.03	20.04	19.98
5	64QAM	12	13	20.24	19.86	19.98
5	64QAM	25	0	20.14	20.00	19.98



LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	24750	/
Frequency (MHz)				/	837.5	/
15	QPSK	1	0	/	21.96	/
15	QPSK	1	37	/	21.86	/
15	QPSK	1	74	/	21.64	/
15	QPSK	36	0	/	20.95	/
15	QPSK	36	20	/	20.97	/
15	QPSK	36	39	/	20.88	/
15	QPSK	75	0	/	20.92	/
15	16QAM	1	0	/	21.46	/
15	16QAM	1	37	/	20.89	/
15	16QAM	1	74	/	21.24	/
15	16QAM	36	0	/	20.04	/
15	16QAM	36	20	/	20.01	/
15	16QAM	36	39	/	20.02	/
15	16QAM	75	0	/	19.96	/
15	64QAM	1	0	/	21.09	/
15	64QAM	1	25	/	21.35	/
15	64QAM	1	49	/	20.03	/
15	64QAM	25	0	/	19.97	/
15	64QAM	25	12	/	19.99	/
15	64QAM	25	25	/	20.04	/
15	64QAM	50	0	/	20.10	/



LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				24050	24075	24100
Frequency (MHz)				835	837.5	840
10	QPSK	1	0	21.75	21.72	21.84
10	QPSK	1	25	21.87	21.69	21.54
10	QPSK	1	49	21.78	21.76	21.56
10	QPSK	25	0	20.89	20.82	20.83
10	QPSK	25	12	20.81	20.80	20.83
10	QPSK	25	25	20.83	20.82	20.71
10	QPSK	50	0	20.85	20.82	20.85
10	16QAM	1	0	20.98	20.76	21.00
10	16QAM	1	25	21.27	20.89	20.61
10	16QAM	1	49	21.28	21.12	20.80
10	16QAM	25	0	19.94	20.04	19.91
10	16QAM	25	12	20.03	19.85	19.87
10	16QAM	25	25	19.88	19.83	19.80
10	16QAM	50	0	20.02	19.94	19.92
10	64QAM	1	0	21.32	20.72	20.97
10	64QAM	1	25	20.89	21.02	20.56
10	64QAM	1	49	21.25	21.06	20.84
10	64QAM	25	0	19.87	19.98	19.97
10	64QAM	25	12	20.03	20.01	19.92
10	64QAM	25	25	19.87	19.89	19.79
10	64QAM	50	0	19.97	19.91	19.96



LTE Band 19						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				24025	24075	24125
Frequency (MHz)				832.5	837.5	842.5
5	QPSK	1	0	21.95	21.83	21.75
5	QPSK	1	12	21.84	21.77	21.46
5	QPSK	1	24	21.87	21.83	21.56
5	QPSK	12	0	20.95	20.79	20.78
5	QPSK	12	7	21.02	20.87	20.72
5	QPSK	12	13	20.94	20.84	20.63
5	QPSK	25	0	20.94	20.89	20.70
5	16QAM	1	0	21.13	21.34	20.61
5	16QAM	1	12	21.10	21.31	20.70
5	16QAM	1	24	21.01	21.26	20.72
5	16QAM	12	0	19.93	19.84	19.73
5	16QAM	12	7	19.99	19.90	19.77
5	16QAM	12	13	19.93	19.96	19.75
5	16QAM	25	0	19.96	19.93	19.76
5	64QAM	1	0	21.09	21.28	21.36
5	64QAM	1	12	20.99	21.06	21.05
5	64QAM	1	24	20.69	20.76	20.69
5	64QAM	12	0	19.86	19.59	19.59
5	64QAM	12	7	19.69	19.67	19.56
5	64QAM	12	13	19.59	19.63	19.53
5	64QAM	25	0	19.53	19.57	19.59



LTE Band25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26140	26365	26590
Frequency (MHz)				1860	1882.5	1905
20	QPSK	1	0	18.12	18.30	18.31
20	QPSK	1	49	17.82	18.03	18.16
20	QPSK	1	99	18.35	18.19	18.23
20	QPSK	50	0	17.30	17.21	17.28
20	QPSK	50	24	17.05	17.19	17.26
20	QPSK	50	50	16.97	17.03	17.16
20	QPSK	100	0	17.13	17.12	17.24
20	16QAM	1	0	17.73	17.48	17.49
20	16QAM	1	49	17.11	17.45	17.64
20	16QAM	1	99	17.71	17.37	17.39
20	16QAM	50	0	16.09	16.24	16.42
20	16QAM	50	24	16.17	16.14	16.23
20	16QAM	50	50	16.13	16.21	16.24
20	16QAM	100	0	16.22	16.31	16.31
20	64QAM	1	0	17.29	17.46	17.79
20	64QAM	1	49	17.40	17.24	17.02
20	64QAM	1	99	17.39	17.40	17.61
20	64QAM	50	0	16.09	16.25	16.34
20	64QAM	50	24	16.19	16.24	16.23
20	64QAM	50	50	16.14	16.22	16.36
20	64QAM	100	0	16.19	16.21	16.32



LTE Band25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26115	26365	26615
Frequency (MHz)				1857.5	1882.5	1907.5
15	QPSK	1	0	17.92	18.12	18.25
15	QPSK	1	37	17.75	18.05	18.11
15	QPSK	1	74	17.94	17.97	18.22
15	QPSK	36	0	17.07	17.20	17.21
15	QPSK	36	20	16.99	17.14	17.22
15	QPSK	36	39	17.08	17.12	17.20
15	QPSK	75	0	17.01	17.09	17.26
15	16QAM	1	0	16.99	17.69	17.51
15	16QAM	1	37	17.09	17.27	17.70
15	16QAM	1	74	17.18	17.50	17.43
15	16QAM	36	0	16.13	16.24	16.29
15	16QAM	36	20	16.05	16.21	16.34
15	16QAM	36	39	16.16	16.18	16.32
15	16QAM	75	0	16.05	16.28	16.25
15	64QAM	1	0	16.90	17.28	17.49
15	64QAM	1	37	17.11	17.19	17.06
15	64QAM	1	74	16.04	16.22	16.33
15	64QAM	36	0	15.99	16.18	16.34
15	64QAM	36	20	16.12	16.15	16.18
15	64QAM	36	39	16.13	16.16	16.24
15	64QAM	75	0	16.15	16.13	16.19



LTE Band25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26090	26365	26640
Frequency (MHz)				1855	1882.5	1910
10	QPSK	1	0	18.20	18.33	18.07
10	QPSK	1	25	17.81	18.07	18.17
10	QPSK	1	49	18.28	18.21	18.16
10	QPSK	25	0	16.97	17.19	17.20
10	QPSK	25	12	16.95	17.09	17.25
10	QPSK	25	25	16.87	17.11	17.17
10	QPSK	50	0	16.95	17.17	17.28
10	16QAM	1	0	17.04	17.89	17.45
10	16QAM	1	25	16.89	17.57	17.72
10	16QAM	1	49	17.35	17.53	17.67
10	16QAM	25	0	16.18	16.30	16.37
10	16QAM	25	12	16.08	16.17	16.33
10	16QAM	25	25	16.03	16.22	16.32
10	16QAM	50	0	16.16	16.26	16.35
10	64QAM	1	0	17.00	17.05	17.12
10	64QAM	1	25	16.99	16.97	16.89
10	64QAM	1	49	16.46	16.38	16.39
10	64QAM	25	0	16.36	16.41	16.43
10	64QAM	25	12	16.49	16.48	16.31
10	64QAM	25	25	16.41	16.40	16.37
10	64QAM	50	0	16.47	16.49	16.45



LTE Band25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26065	26365	26665
Frequency (MHz)				1852.5	1882.5	1912.5
5	QPSK	1	0	17.94	18.10	18.08
5	QPSK	1	12	17.81	18.01	18.02
5	QPSK	1	24	17.89	18.09	18.07
5	QPSK	12	0	16.92	17.12	17.22
5	QPSK	12	7	16.99	17.11	17.19
5	QPSK	12	13	17.08	17.12	17.20
5	QPSK	25	0	17.04	17.13	17.20
5	16QAM	1	0	16.97	17.30	17.76
5	16QAM	1	12	16.86	17.21	17.65
5	16QAM	1	24	17.03	17.28	17.35
5	16QAM	12	0	16.13	16.19	16.35
5	16QAM	12	7	16.02	16.20	16.27
5	16QAM	12	13	16.10	16.21	16.27
5	16QAM	25	0	16.12	16.11	16.27
5	64QAM	1	0	17.43	17.21	17.14
5	64QAM	1	12	17.01	17.12	17.19
5	64QAM	1	24	17.17	17.22	17.15
5	64QAM	12	0	15.87	16.15	16.21
5	64QAM	12	7	16.05	16.11	16.23
5	64QAM	12	13	16.14	16.17	16.35
5	64QAM	25	0	16.13	16.16	16.19



LTE Band25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26055	26365	26675
Frequency (MHz)				1851.5	1882.5	1913.5
3	QPSK	1	0	17.93	18.22	18.26
3	QPSK	1	8	17.78	17.98	18.06
3	QPSK	1	14	17.76	18.02	18.22
3	QPSK	8	0	16.97	17.06	17.10
3	QPSK	8	4	16.96	17.09	17.15
3	QPSK	8	7	16.88	17.06	17.17
3	QPSK	15	0	16.95	17.04	17.21
3	16QAM	1	0	16.97	17.53	17.65
3	16QAM	1	8	17.07	17.40	17.59
3	16QAM	1	14	16.87	17.25	17.17
3	16QAM	8	0	16.04	16.07	16.19
3	16QAM	8	4	16.03	16.22	16.38
3	16QAM	8	7	15.99	16.17	16.32
3	16QAM	15	0	16.03	16.27	16.34
3	64QAM	1	0	16.98	16.99	17.00
3	64QAM	1	8	16.89	16.79	16.94
3	64QAM	1	14	16.46	16.32	16.47
3	64QAM	8	0	16.32	16.39	16.31
3	64QAM	8	4	16.48	16.38	16.48
3	64QAM	8	7	16.31	16.33	16.35
3	64QAM	15	0	16.39	16.44	16.36



LTE Band25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	17.83	17.93	18.11
1.4	QPSK	1	3	17.92	17.99	18.08
1.4	QPSK	1	5	17.88	17.93	18.04
1.4	QPSK	3	0	17.89	17.98	18.09
1.4	QPSK	3	1	17.83	18.03	18.16
1.4	QPSK	3	3	17.76	17.92	18.20
1.4	QPSK	6	0	16.79	17.00	17.04
1.4	16QAM	1	0	16.78	16.94	17.08
1.4	16QAM	1	3	17.37	17.26	17.33
1.4	16QAM	1	5	17.36	17.11	17.03
1.4	16QAM	3	0	16.98	17.09	17.08
1.4	16QAM	3	1	16.99	17.09	17.29
1.4	16QAM	3	3	16.82	17.09	17.22
1.4	16QAM	6	0	16.06	16.15	16.39
1.4	64QAM	1	0	16.87	16.97	17.21
1.4	64QAM	1	3	17.08	17.24	17.54
1.4	64QAM	1	5	16.95	17.22	17.26
1.4	64QAM	3	0	16.96	17.16	17.16
1.4	64QAM	3	1	17.03	17.01	17.18
1.4	64QAM	3	3	17.06	17.20	17.34
1.4	64QAM	6	0	15.86	16.14	16.28



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26865	26915	26965
Frequency (MHz)				831.5	836.5	841.5
15	QPSK	1	0	21.77	21.55	21.89
15	QPSK	1	37	21.92	21.88	21.78
15	QPSK	1	74	21.85	21.90	21.64
15	QPSK	36	0	20.89	20.77	20.93
15	QPSK	36	20	20.96	20.83	20.90
15	QPSK	36	39	20.92	20.92	20.78
15	QPSK	75	0	20.92	20.89	20.95
15	16QAM	1	0	21.01	20.89	21.41
15	16QAM	1	37	21.49	21.31	20.70
15	16QAM	1	74	20.80	21.03	21.16
15	16QAM	36	0	19.93	19.89	19.98
15	16QAM	36	20	20.03	19.98	19.96
15	16QAM	36	39	20.05	20.08	19.81
15	16QAM	75	0	20.03	19.97	19.98
15	64QAM	1	0	21.35	21.09	21.10
15	64QAM	1	37	21.14	21.01	20.86
15	64QAM	1	74	19.87	19.94	20.01
15	64QAM	36	0	20.03	20.03	19.97
15	64QAM	36	20	20.01	20.07	19.81
15	64QAM	36	39	20.03	19.93	19.94
15	64QAM	75	0	19.96	20.35	19.97



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26840	26915	26990
Frequency (MHz)				829.0	836.5	844.0
10	QPSK	1	0	21.74	21.91	21.83
10	QPSK	1	25	21.91	21.89	21.67
10	QPSK	1	49	21.79	21.87	21.71
10	QPSK	25	0	20.97	21.00	20.81
10	QPSK	25	12	20.95	21.13	20.81
10	QPSK	25	25	20.91	21.10	20.73
10	QPSK	50	0	20.96	21.15	20.76
10	16QAM	1	0	20.98	21.18	21.28
10	16QAM	1	25	21.32	21.27	20.95
10	16QAM	1	49	21.38	21.11	21.01
10	16QAM	25	0	20.12	20.14	19.77
10	16QAM	25	12	20.03	20.15	19.74
10	16QAM	25	25	19.91	20.13	19.80
10	16QAM	50	0	19.98	20.25	19.83
10	64QAM	1	0	20.89	21.10	20.92
10	64QAM	1	25	20.88	21.06	20.89
10	64QAM	1	49	21.37	20.10	20.75
10	64QAM	25	0	20.01	20.17	19.83
10	64QAM	25	12	20.08	20.15	19.90
10	64QAM	25	25	19.87	20.24	19.81
10	64QAM	50	0	19.99	20.23	19.79



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26815	26915	27015
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	21.77	21.72	21.73
5	QPSK	1	12	21.81	21.56	21.85
5	QPSK	1	24	21.76	21.56	21.78
5	QPSK	12	0	20.99	20.17	20.71
5	QPSK	12	7	20.98	20.15	20.77
5	QPSK	12	13	20.90	20.24	20.64
5	QPSK	25	0	20.94	21.35	20.72
5	16QAM	1	0	21.23	21.31	21.19
5	16QAM	1	12	21.24	21.10	21.12
5	16QAM	1	24	21.26	21.12	21.01
5	16QAM	12	0	20.06	21.14	19.80
5	16QAM	12	7	20.11	21.04	19.81
5	16QAM	12	13	19.88	21.15	19.86
5	16QAM	25	0	20.01	21.23	19.84
5	64QAM	1	0	21.06	21.15	20.82
5	64QAM	1	12	21.16	21.41	20.75
5	64QAM	1	24	21.32	20.22	20.76
5	64QAM	12	0	20.01	20.13	19.77
5	64QAM	12	7	20.07	20.12	19.69
5	64QAM	12	13	19.87	20.10	19.74
5	64QAM	25	0	20.02	20.10	19.81



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26805	26915	27025
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	21.92	21.18	21.65
3	QPSK	1	8	21.79	21.56	21.62
3	QPSK	1	14	21.87	21.22	21.56
3	QPSK	8	0	20.88	20.52	20.69
3	QPSK	8	4	20.91	20.65	20.67
3	QPSK	8	7	20.84	20.59	20.67
3	QPSK	15	0	20.84	20.91	20.62
3	16QAM	1	0	21.47	21.39	20.82
3	16QAM	1	8	21.40	21.43	20.97
3	16QAM	1	14	21.27	21.06	20.66
3	16QAM	8	0	19.99	20.05	19.84
3	16QAM	8	4	20.15	20.94	19.68
3	16QAM	8	7	20.10	20.11	19.73
3	16QAM	15	0	19.95	20.32	19.86
3	64QAM	1	0	21.34	20.97	20.59
3	64QAM	1	8	20.98	20.92	20.84
3	64QAM	1	14	20.99	20.22	21.09
3	64QAM	8	0	19.97	19.69	19.95
3	64QAM	8	4	19.89	19.94	19.67
3	64QAM	8	7	19.96	19.78	19.82
3	64QAM	15	0	19.85	19.56	19.70



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26797	26915	27033
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	21.74	21.77	21.68
1.4	QPSK	1	3	21.82	21.88	21.67
1.4	QPSK	1	5	21.80	21.79	21.59
1.4	QPSK	3	0	21.86	21.90	21.70
1.4	QPSK	3	1	21.92	21.94	21.73
1.4	QPSK	3	3	21.85	21.94	21.63
1.4	QPSK	6	0	20.81	20.81	20.66
1.4	16QAM	1	0	20.76	20.80	20.69
1.4	16QAM	1	3	21.06	21.10	21.00
1.4	16QAM	1	5	20.98	21.32	20.54
1.4	16QAM	3	0	20.83	21.01	20.60
1.4	16QAM	3	1	20.98	20.89	20.72
1.4	16QAM	3	3	20.92	20.97	20.81
1.4	16QAM	6	0	20.07	20.06	19.74
1.4	64QAM	1	0	20.80	21.03	20.71
1.4	64QAM	1	3	21.14	21.42	21.06
1.4	64QAM	1	5	20.99	21.02	20.56
1.4	64QAM	3	0	20.92	21.06	20.69
1.4	64QAM	3	1	20.80	20.97	20.72
1.4	64QAM	3	3	21.04	20.87	20.72
1.4	64QAM	6	0	19.95	19.98	19.83