



REPORT No.: SZ19100008W03

TEST REPORT

APPLICANT : Great Talent Technology Limited

PRODUCT NAME : SC3218

MODEL NAME : SC3218

BRAND NAME : SCHOK

FCC ID : 2ALZM-SC3218

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 : 2019-10-08

TEST DATE : 2019-10-08 to 2019-10-23

ISSUE DATE : 2019-10-28

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Change History		
Version	Date	Reason for change
1.0	2019-09-28	First edition

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1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Great Talent Technology Limited
Applicant Address:	RM602,T3 Software Park,Nanshan,Shenzhen,China
Manufacturer:	Great Talent Technology Limited
ManufacturerAddress:	RM602,T3 Software Park,Nanshan,Shenzhen,China

1.2. Equipment Under Test (EUT) Description

Product Name:	SC3218	
Hardware Version:	SC3218-V1.1	
Software Version:	SC3218_V1.0.4	
Modulation Type:	QPSK, 16QAM	
Operation Band:	Band 26/28/30/41/66/71	
Frequency Range:	LTE Band 26	Tx:824MHz-849MHz Rx:869MHz-894MHz
	LTE Band 28	Tx:703MHz-748MHz Rx:758MHz-803MHz
	LTE Band 30	Tx: 2305MHz– 2315MHz Rx: 2350MHz– 2360MHz
	LTE Band 41	Tx: 2496MHz– 2690MHz Rx: 2496MHz– 2690MHz
	LTE Band 66	Tx: 1710MHz–1780MHz Rx: 2110MHz–2200MHz
	LTE Band 71	Tx: 663MHz–698MHz Rx: 617MHz–652MHz
	LTE Band 26	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz
Channel Bandwidth	LTE Band 28	3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 30	5 MHz, 10MHz
	LTE Band 41	5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 66	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 71	5 MHz, 10MHz, 15 MHz, 20 MHz



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Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 26	-2.03 dbi
	LTE Band 28	-4.81 dbi
	LTE Band 30	1.20 dbi
	LTE Band 41	1.51 dbi
	LTE Band 66	-0.30 dbi
	LTE Band 71	-0.52 dbi
Accessory Information:	Battery	
	Brand Name:	SCHOK
	Model No.:	SB165
	Capacity:	1650mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	AC Adapter 1	
	Brand Name:	SCHOK
	Model No.:	KFL-C050100
	Rated Input:	100-240V~50/60Hz 0.2A
	Rated Output:	5V=1.0A
Charging base	Charging base	
	Brand Name:	SCHOK
	Model No.:	SC3218
	Rated Input:	100-240V~50/60Hz 0.2A
	Rated Output:	5V=1.0A

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

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1.3. Emission Designator

LTE B26 Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM
1.4	1M10G7D	1M09W7D
3	2M69G7D	2M68W7D
5	4M48G7D	4M47W7D
10	8M94G7D	8M94W7D
15	13M5G7D	13M5W7D

LTE B28 Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM
3	2M69G7D	2M68W7D
5	4M52G7D	4M52W7D
10	8M93G7D	8M93W7D
15	13M4G7D	13M4W7D
20	17M9G7D	17M8W7D

LTE B30 Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM
5	4M52G7D	4M52W7D
10	9M03G7D	8M98W7D

LTE B41 Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM
5	4M52G7D	4M51W7D
10	8M99G7D	8M97W7D
15	13M5G7D	13M5W7D
20	17M9G7D	17M9W7D

LTE B66 Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM
1.4	1M10G7D	1M10W7D
3	2M69G7D	2M70W7D
5	4M50G7D	4M50W7D
10	8M97G7D	8M95W7D
15	13M4G7D	13M5W7D
20	17M9G7D	17M9W7D



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LTE B71	Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM
5	4M49G7D	4M50W7D
10	8M97G7D	8M95W7D
15	13M5G7D	13M4W7D
20	17M9G7D	17M9W7D

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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	Oct09-23, 2019	Gao Mingzhou PengXuewei	PASS
2.1049	Occupied Bandwidth	Oct09-15, 2019	Gao Mingzhou	PASS
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Oct09-15, 2019	Gao Mingzhou	PASS
24.232(d), 27.50(a)(d)(5)	Peak to Average Radio	Oct09-15, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Oct09-15, 2019 Sept 04, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Oct09-15, 2019	Gao Mingzhou	PASS
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	Oct09-17, 2019	PengXuewei	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.

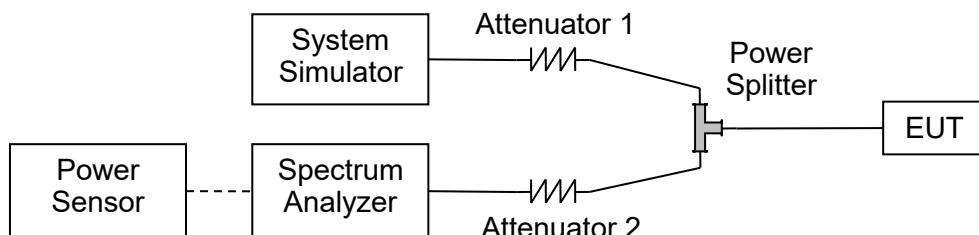
According to FCC section 27.50 (d) for LTE Band 4, fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

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.



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2.1.3. Test procedure

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

EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

ERP (dBm) = EIPR (dBm) - 2.15

2.1.4. Result



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Conducted Output Power:

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	23.44	23.34	23.42
15	QPSK	1	37	23.32	23.21	23.19
15	QPSK	1	74	23.31	23.24	23.27
15	QPSK	36	0	22.71	22.79	22.60
15	QPSK	36	20	22.65	22.61	22.67
15	QPSK	36	39	22.61	22.74	22.80
15	QPSK	75	0	22.98	22.59	22.66
15	16QAM	1	0	22.91	22.86	22.94
15	16QAM	1	37	22.87	22.81	22.63
15	16QAM	1	74	22.78	22.83	22.56
15	16QAM	36	0	21.69	21.76	21.59
15	16QAM	36	20	21.59	21.69	21.51
15	16QAM	36	39	21.62	21.59	21.80
15	16QAM	75	0	21.59	21.66	21.55

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	23.10	22.69	22.76
10	QPSK	1	25	22.95	23.19	23.18
10	QPSK	1	49	22.89	22.95	22.94
10	QPSK	25	0	22.28	22.22	22.20
10	QPSK	25	12	22.16	22.20	22.27
10	QPSK	25	25	22.15	22.25	22.13
10	QPSK	50	0	22.22	22.25	22.19
10	16QAM	1	0	22.28	21.99	22.24
10	16QAM	1	25	22.14	22.23	22.48
10	16QAM	1	49	22.08	22.12	22.04

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10	16QAM	25	0	21.59	21.56	21.59
10	16QAM	25	12	21.66	21.66	21.74
10	16QAM	25	25	21.64	21.56	21.58
10	16QAM	50	0	21.54	21.74	21.67

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	23.04	22.80	23.29
5	QPSK	1	12	22.79	23.15	22.90
5	QPSK	1	24	22.85	22.88	22.86
5	QPSK	12	0	22.19	22.17	22.22
5	QPSK	12	7	22.12	22.36	22.09
5	QPSK	12	13	22.04	22.21	22.01
5	QPSK	25	0	22.17	22.20	21.99
5	16QAM	1	0	21.86	21.69	21.58
5	16QAM	1	12	21.69	21.96	21.57
5	16QAM	1	24	21.67	21.85	21.58
5	16QAM	12	0	21.51	21.66	21.75
5	16QAM	12	7	21.62	21.54	21.56
5	16QAM	12	13	21.66	21.75	21.66
5	16QAM	25	0	21.72	21.66	21.80

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	23.05	22.94	23.25
3	QPSK	1	8	22.89	23.18	22.75
3	QPSK	1	14	22.92	23.13	22.83
3	QPSK	8	0	22.25	22.33	22.22
3	QPSK	8	4	22.12	22.35	22.17
3	QPSK	8	7	22.06	22.31	22.11

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3	QPSK	15	0	22.19	22.36	22.15
3	16QAM	1	0	22.19	22.42	22.37
3	16QAM	1	8	22.18	22.63	22.19
3	16QAM	1	14	22.21	22.23	22.15
3	16QAM	8	0	21.58	21.58	21.8
3	16QAM	8	4	21.58	21.62	21.66
3	16QAM	8	7	21.66	21.56	21.76
3	16QAM	15	0	21.56	21.72	21.88

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	23.08	23.18	23.08
1.4	QPSK	1	3	23.07	23.03	23.11
1.4	QPSK	1	5	23.19	22.89	22.96
1.4	QPSK	3	0	23.16	23.21	23.39
1.4	QPSK	3	1	23.15	23.36	23.15
1.4	QPSK	3	3	23.21	23.32	22.99
1.4	QPSK	6	0	22.22	22.26	22.13
1.4	16QAM	1	0	21.91	22.25	22.23
1.4	16QAM	1	3	21.87	22.25	21.97
1.4	16QAM	1	5	21.89	22.09	21.84
1.4	16QAM	3	0	21.99	21.99	22.17
1.4	16QAM	3	1	22.15	22.37	22.32
1.4	16QAM	3	3	22.12	22.45	22.13
1.4	16QAM	6	0	21.55	21.56	21.55

LTE Band28

BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				27310	27460	27560
Frequency (MHz)				713	728	738
20	QPSK	1	0	23.21	23.22	23.25

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20	QPSK	1	49	23.41	23.29	22.98
20	QPSK	1	99	23.18	23.27	23.11
20	QPSK	50	0	22.38	22.08	22.08
20	QPSK	50	24	22.33	22.12	22.05
20	QPSK	50	50	22.37	22.20	22.14
20	QPSK	100	0	22.27	22.29	22.02
20	16QAM	1	0	21.88	21.87	21.89
20	16QAM	1	49	21.96	22.35	22.04
20	16QAM	1	99	21.88	22.33	21.89
20	16QAM	50	0	21.71	21.89	21.55
20	16QAM	50	24	21.63	21.71	21.51
20	16QAM	50	50	21.58	21.65	21.59
20	16QAM	100	0	21.60	21.71	21.68

LTE Band28						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				27285	27435	27585
Frequency (MHz)				710.5	725.5	740.5
15	QPSK	1	0	23.28	23.12	23.19
15	QPSK	1	37	23.37	23.38	23.22
15	QPSK	1	74	23.01	23.36	23.11
15	QPSK	36	0	22.34	22.05	22.01
15	QPSK	36	20	22.37	22.21	22.03
15	QPSK	36	39	22.37	22.17	22.25
15	QPSK	75	0	22.43	22.24	22.03
15	16QAM	1	0	22.53	22.11	22.08
15	16QAM	1	37	22.58	22.38	22.31
15	16QAM	1	74	22.48	22.36	22.46
15	16QAM	36	0	21.89	21.96	22.06
15	16QAM	36	20	21.77	21.88	21.89
15	16QAM	36	39	21.76	21.79	21.81
15	16QAM	75	0	21.81	21.77	21.73

LTE Band28						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low	Average Power Middle	Average Power High

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				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.
Channel				27260	27410	27610
Frequency (MHz)				708	723	743
10	QPSK	1	0	23.22	22.98	22.91
10	QPSK	1	25	23.24	23.36	23.00
10	QPSK	1	49	23.21	23.28	23.02
10	QPSK	25	0	22.50	22.09	22.04
10	QPSK	25	12	22.53	22.24	22.07
10	QPSK	25	25	22.46	22.29	22.18
10	QPSK	50	0	22.45	22.25	22.12
10	16QAM	1	0	22.40	22.46	22.33
10	16QAM	1	25	22.53	22.37	22.31
10	16QAM	1	49	22.32	22.31	22.29
10	16QAM	25	0	21.89	21.96	21.78
10	16QAM	25	12	21.77	21.87	21.67
10	16QAM	25	25	21.74	21.81	21.66
10	16QAM	50	0	21.81	21.92	21.79

LTE Band28

BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				27235	27385	27635
Frequency (MHz)				705.5	720.5	745.5
5	QPSK	1	0	23.33	22.99	23.03
5	QPSK	1	12	23.23	23.31	23.21
5	QPSK	1	24	23.19	23.20	23.09
5	QPSK	12	0	22.44	22.04	22.05
5	QPSK	12	7	22.39	22.17	22.14
5	QPSK	12	13	22.49	22.24	22.22
5	QPSK	25	0	22.57	22.28	22.21
5	16QAM	1	0	22.49	22.21	22.35
5	16QAM	1	12	22.46	22.19	22.45
5	16QAM	1	24	22.48	22.23	22.19
5	16QAM	12	0	21.78	21.89	21.77
5	16QAM	12	7	21.69	21.81	21.65
5	16QAM	12	13	21.66	21.77	21.61

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5	16QAM	25	0	21.72	21.86	21.77
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LTE Band28						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				27225	27375	27645
Frequency (MHz)				704.5	719.5	746.5
3	QPSK	1	0	23.34	23.19	23.28
3	QPSK	1	8	23.18	23.18	23.11
3	QPSK	1	14	23.31	23.19	22.99
3	QPSK	8	0	22.29	22.24	22.19
3	QPSK	8	4	22.40	22.40	22.14
3	QPSK	8	7	22.37	22.37	22.05
3	QPSK	15	0	22.31	22.31	22.07
3	16QAM	1	0	22.36	22.31	22.28
3	16QAM	1	8	22.56	22.43	22.39
3	16QAM	1	14	22.69	22.50	22.31
3	16QAM	8	0	21.89	21.77	21.69
3	16QAM	8	4	21.76	21.78	21.58
3	16QAM	8	7	21.56	21.63	21.51
3	16QAM	15	0	21.63	21.58	21.63

LTE Band 30						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	27710	/
Frequency (MHz)				/	2310	/
10	QPSK	1	0	/	19.20	/
10	QPSK	1	25	/	19.14	/
10	QPSK	1	49	/	18.98	/
10	QPSK	25	0	/	18.15	/
10	QPSK	25	12	/	18.13	/
10	QPSK	25	25	/	18.08	/
10	QPSK	50	0	/	18.10	/
10	16QAM	1	0	/	17.87	/



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10	16QAM	1	25	/	18.22	/
10	16QAM	1	49	/	17.92	/
10	16QAM	25	0	/	17.97	/
10	16QAM	25	12	/	17.90	/
10	16QAM	25	25	/	17.93	/
10	16QAM	50	0	/	18.07	/

LTE Band 30						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	18.89	18.86	19.16
5	QPSK	1	12	19.01	19.17	19.19
5	QPSK	1	24	18.76	18.90	19.04
5	QPSK	12	0	18.14	18.10	18.05
5	QPSK	12	7	18.11	18.18	18.09
5	QPSK	12	13	18.02	18.12	18.00
5	QPSK	25	0	18.07	18.10	18.12
5	16QAM	1	0	17.85	17.90	18.22
5	16QAM	1	12	18.00	17.85	18.07
5	16QAM	1	24	18.09	18.00	17.93
5	16QAM	12	0	18.28	18.21	18.00
5	16QAM	12	7	18.29	18.12	18.03
5	16QAM	12	13	18.23	18.07	17.92
5	16QAM	25	0	17.90	18.01	17.96

LTE Band41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	19.16	19.31	19.30

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20	QPSK	1	49	19.26	19.30	19.20
20	QPSK	1	99	19.19	19.15	19.15
20	QPSK	50	0	18.00	18.37	18.24
20	QPSK	50	24	18.01	18.25	18.30
20	QPSK	50	50	17.99	18.18	18.28
20	QPSK	100	0	17.89	18.13	18.30
20	16QAM	1	0	18.06	17.90	18.01
20	16QAM	1	49	18.00	18.09	18.16
20	16QAM	1	99	18.29	18.17	18.03
20	16QAM	50	0	16.88	17.14	17.32
20	16QAM	50	24	17.03	17.23	17.30
20	16QAM	50	50	16.96	17.07	17.29
20	16QAM	100	0	16.86	17.15	17.18

LTE Band41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	19.12	19.03	19.19
15	QPSK	1	37	19.20	19.20	18.94
15	QPSK	1	74	19.09	19.17	19.16
15	QPSK	36	0	17.97	18.07	18.39
15	QPSK	36	20	18.09	18.32	18.40
15	QPSK	36	39	18.10	18.20	18.31
15	QPSK	75	0	17.93	18.22	18.18
15	16QAM	1	0	17.96	17.81	18.05
15	16QAM	1	37	18.27	18.12	18.19
15	16QAM	1	74	18.29	18.11	17.93
15	16QAM	36	0	16.99	17.10	17.30
15	16QAM	36	20	16.97	17.27	17.34
15	16QAM	36	39	17.28	17.07	17.36
15	16QAM	75	0	17.10	17.20	17.35

LTE Band41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low	Average Power Middle	Average Power High

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				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	18.61	19.06	18.94
10	QPSK	1	25	19.00	19.07	19.04
10	QPSK	1	49	19.08	18.93	18.96
10	QPSK	25	0	18.07	18.25	18.33
10	QPSK	25	12	18.09	18.34	18.44
10	QPSK	25	25	18.06	18.25	18.38
10	QPSK	50	0	18.08	18.22	18.30
10	16QAM	1	0	17.96	18.19	17.99
10	16QAM	1	25	18.29	18.11	18.14
10	16QAM	1	49	18.19	18.24	18.19
10	16QAM	25	0	17.21	17.05	17.52
10	16QAM	25	12	17.26	17.34	17.40
10	16QAM	25	25	17.22	17.35	17.47
10	16QAM	50	0	16.97	17.21	17.20

LTE Band41

BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	19.14	18.94	19.17
5	QPSK	1	12	19.05	19.20	19.20
5	QPSK	1	24	19.00	19.06	19.16
5	QPSK	12	0	18.03	18.24	18.43
5	QPSK	12	7	18.00	18.32	18.37
5	QPSK	12	13	17.97	18.20	18.40
5	QPSK	25	0	17.99	18.22	18.40
5	16QAM	1	0	17.86	17.64	17.97
5	16QAM	1	12	17.76	17.98	18.10
5	16QAM	1	24	17.75	17.77	17.90
5	16QAM	12	0	17.20	17.23	17.23
5	16QAM	12	7	17.16	17.30	17.28
5	16QAM	12	13	17.17	17.19	17.28

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5	16QAM	25	0	17.18	17.43	17.41
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LTE Band66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	20.02	20.36	20.15
20	QPSK	1	49	20.09	20.27	19.90
20	QPSK	1	99	20.11	19.96	19.98
20	QPSK	50	0	19.20	19.23	19.16
20	QPSK	50	24	19.17	19.09	19.03
20	QPSK	50	50	19.05	18.96	19.05
20	QPSK	100	0	19.07	19.05	18.97
20	16QAM	1	0	19.03	18.82	19.04
20	16QAM	1	49	19.06	18.76	19.08
20	16QAM	1	99	18.86	18.60	18.97
20	16QAM	50	0	18.39	18.50	18.60
20	16QAM	50	24	18.50	18.60	18.40
20	16QAM	50	50	18.60	18.54	18.57
20	16QAM	100	0	18.43	18.65	18.60

LTE Band66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	19.98	20.26	20.08
15	QPSK	1	37	19.99	20.17	20.09
15	QPSK	1	74	20.01	20.16	20.00
15	QPSK	36	0	19.10	19.23	19.06
15	QPSK	36	20	19.07	19.09	19.13
15	QPSK	36	39	18.98	19.12	19.15
15	QPSK	75	0	19.00	19.01	19.17



15	16QAM	1	0	18.46	18.42	18.47
15	16QAM	1	37	18.47	18.46	18.74
15	16QAM	1	74	18.54	18.74	18.47
15	16QAM	36	0	18.40	18.60	18.54
15	16QAM	36	20	18.60	18.50	18.68
15	16QAM	36	39	18.40	18.54	18.57
15	16QAM	75	0	18.53	18.65	18.60

LTE Band66

BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	20.01	20.16	20.14
10	QPSK	1	25	20.06	20.17	20.11
10	QPSK	1	49	20.05	20.06	20.10
10	QPSK	25	0	19.00	19.03	19.16
10	QPSK	25	12	18.98	18.99	19.11
10	QPSK	25	25	19.01	19.16	19.12
10	QPSK	50	0	19.07	19.11	19.27
10	16QAM	1	0	18.50	18.52	18.57
10	16QAM	1	25	18.67	18.66	18.44
10	16QAM	1	49	18.64	18.54	18.38
10	16QAM	25	0	18.50	18.50	18.44
10	16QAM	25	12	18.70	18.40	18.56
10	16QAM	25	25	18.80	18.64	18.47
10	16QAM	50	0	18.53	18.85	18.50

LTE Band66

BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647



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Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	20.11	20.00	20.04
5	QPSK	1	12	20.14	20.09	20.03
5	QPSK	1	24	19.99	20.01	20.01
5	QPSK	12	0	19.06	18.99	19.16
5	QPSK	12	7	19.04	19.09	18.99
5	QPSK	12	13	19.05	19.26	19.02
5	QPSK	25	0	19.08	19.05	19.07
5	16QAM	1	0	18.53	18.40	18.47
5	16QAM	1	12	18.77	18.52	18.64
5	16QAM	1	24	18.44	18.47	18.70
5	16QAM	12	0	18.52	18.54	18.55
5	16QAM	12	7	18.40	18.62	18.46
5	16QAM	12	13	18.54	18.58	18.51
5	16QAM	25	0	18.42	18.54	18.46

LTE Band66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	20.01	19.98	19.99
3	QPSK	1	8	20.04	20.08	20.03
3	QPSK	1	14	20.00	20.10	20.04
3	QPSK	8	0	19.03	19.07	19.10
3	QPSK	8	4	19.13	19.08	19.07
3	QPSK	8	7	19.07	19.06	19.07
3	QPSK	15	0	19.02	19.10	18.99
3	16QAM	1	0	18.57	18.54	18.58
3	16QAM	1	8	18.63	18.45	18.54
3	16QAM	1	14	18.49	18.42	18.60
3	16QAM	8	0	18.45	18.52	18.41
3	16QAM	8	4	18.40	18.42	18.56
3	16QAM	8	7	18.69	18.50	18.55
3	16QAM	15	0	18.45	18.45	18.44

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**LTE Band66**

BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	19.94	19.97	20.04
1.4	QPSK	1	3	19.97	20.00	20.03
1.4	QPSK	1	5	19.98	19.99	20.01
1.4	QPSK	3	0	18.97	19.00	19.16
1.4	QPSK	3	1	19.08	18.90	18.99
1.4	QPSK	3	3	18.96	18.88	19.02
1.4	QPSK	6	0	18.97	18.97	19.07
1.4	16QAM	1	0	18.40	18.46	18.47
1.4	16QAM	1	3	18.47	18.64	18.64
1.4	16QAM	1	5	18.55	18.49	18.70
1.4	16QAM	3	0	18.62	18.70	18.55
1.4	16QAM	3	1	18.49	18.43	18.43
1.4	16QAM	3	3	18.40	18.52	18.61
1.4	16QAM	6	0	18.49	18.41	18.69

LTE Band71

BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	23.28	23.23	23.22
20	QPSK	1	49	23.03	23.06	23.15
20	QPSK	1	99	23.12	23.05	23.22
20	QPSK	50	0	23.19	22.86	22.79
20	QPSK	50	24	22.78	22.91	22.97
20	QPSK	50	50	22.84	23.01	22.85
20	QPSK	100	0	22.75	22.86	22.74
20	16QAM	1	0	21.95	21.92	21.79



20	16QAM	1	49	21.87	21.89	21.78
20	16QAM	1	99	22.04	21.85	21.82
20	16QAM	50	0	21.74	22.01	21.86
20	16QAM	50	24	21.80	21.77	21.94
20	16QAM	50	50	21.75	21.84	22.05
20	16QAM	100	0	21.84	21.75	21.81

LTE Band71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel			133197		133297	133397
Frequency (MHz)			670.5		680.5	690.5
15	QPSK	1	0	23.22	23.20	23.12
15	QPSK	1	37	23.04	23.16	23.15
15	QPSK	1	74	22.82	23.05	23.07
15	QPSK	36	0	23.12	23.19	23.10
15	QPSK	36	20	23.05	23.00	22.91
15	QPSK	36	39	22.86	22.92	22.81
15	QPSK	75	0	22.79	22.76	22.78
15	16QAM	1	0	21.85	21.84	21.89
15	16QAM	1	37	21.97	21.79	22.04
15	16QAM	1	74	22.04	21.86	21.92
15	16QAM	36	0	21.75	21.86	22.01
15	16QAM	36	20	22.08	21.74	21.84
15	16QAM	36	39	21.74	21.94	21.95
15	16QAM	75	0	21.96	21.81	21.71

LTE Band71						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel			133172		133297	133422
Frequency (MHz)			668		680.5	693
10	QPSK	1	0	17.26	17.40	17.50



10	QPSK	1	25	17.56	17.50	17.75
10	QPSK	1	49	17.53	17.54	17.66
10	QPSK	25	0	16.45	16.56	16.56
10	QPSK	25	12	16.56	16.64	16.64
10	QPSK	25	25	16.63	16.70	16.73
10	QPSK	50	0	16.51	16.61	16.64
10	16QAM	1	0	16.99	16.70	16.91
10	16QAM	1	25	16.69	16.97	16.76
10	16QAM	1	49	16.69	16.57	16.38
10	16QAM	25	0	15.45	15.50	15.59
10	16QAM	25	12	15.67	15.65	15.64
10	16QAM	25	25	15.63	15.70	15.74
10	16QAM	50	0	15.60	15.63	15.63

LTE Band66

BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				133147	133297	133447
Frequency (MHz)				665.5	680.5	695.5
5	QPSK	1	0	23.12	23.22	23.14
5	QPSK	1	12	22.95	23.19	22.97
5	QPSK	1	24	22.84	22.84	23.05
5	QPSK	12	0	22.91	23.04	23.14
5	QPSK	12	7	23.08	23.01	22.86
5	QPSK	12	13	22.92	22.77	23.02
5	QPSK	25	0	22.89	22.76	22.86
5	16QAM	1	0	22.01	21.91	21.92
5	16QAM	1	12	21.72	21.83	21.74
5	16QAM	1	24	21.70	21.92	21.82
5	16QAM	12	0	21.76	22.00	21.97
5	16QAM	12	7	21.92	21.92	21.78
5	16QAM	12	13	21.86	21.81	21.92
5	16QAM	25	0	22.11	21.97	21.86



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Effective Radiated Power and Effective Isotropic Radiated Power:

LTE Band26				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26865		26915		26965	
Frequency (MHz)				831.5		836.5		841.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	19.26	0.084	19.16	0.082	19.24	0.084
15	QPSK	1	37	19.14	0.082	19.03	0.080	19.01	0.080
15	QPSK	1	74	19.13	0.082	19.06	0.081	19.09	0.081
15	QPSK	36	0	18.53	0.071	18.61	0.073	18.42	0.070
15	QPSK	36	20	18.47	0.070	18.43	0.070	18.49	0.071
15	QPSK	36	39	18.43	0.070	18.56	0.072	18.62	0.073
15	QPSK	75	0	18.80	0.076	18.41	0.069	18.48	0.070
15	16QAM	1	0	18.73	0.075	18.68	0.074	18.76	0.075
15	16QAM	1	37	18.69	0.074	18.63	0.073	18.45	0.070
15	16QAM	1	74	18.60	0.072	18.65	0.073	18.38	0.069
15	16QAM	36	0	17.51	0.056	17.58	0.057	17.41	0.055
15	16QAM	36	20	17.41	0.055	17.51	0.056	17.33	0.054
15	16QAM	36	39	17.44	0.055	17.41	0.055	17.62	0.058
15	16QAM	75	0	17.41	0.055	17.48	0.056	17.37	0.055

LTE Band26				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26840		26915		26990	
Frequency (MHz)				829.0		836.5		844.0	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	18.92	0.078	18.51	0.071	18.58	0.072
10	QPSK	1	25	18.77	0.075	19.01	0.080	19.00	0.079
10	QPSK	1	49	18.71	0.074	18.77	0.075	18.76	0.075
10	QPSK	25	0	18.10	0.065	18.04	0.064	18.02	0.063
10	QPSK	25	12	17.98	0.063	18.02	0.063	18.09	0.064
10	QPSK	25	25	17.97	0.063	18.07	0.064	17.95	0.062
10	QPSK	50	0	18.04	0.064	18.07	0.064	18.01	0.063
10	16QAM	1	0	18.10	0.065	17.81	0.060	18.06	0.064
10	16QAM	1	25	17.96	0.063	18.05	0.064	18.30	0.068

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10	16QAM	1	49	17.90	0.062	17.94	0.062	17.86	0.061
10	16QAM	25	0	17.41	0.055	17.38	0.055	17.41	0.055
10	16QAM	25	12	17.48	0.056	17.48	0.056	17.56	0.057
10	16QAM	25	25	17.46	0.056	17.38	0.055	17.40	0.055
10	16QAM	50	0	17.36	0.054	17.56	0.057	17.49	0.056

LTE Band26				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26815		26915		27015	
Frequency (MHz)				826.5		836.5		846.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	18.86	0.077	18.62	0.073	19.11	0.081
5	QPSK	1	12	18.61	0.073	18.97	0.079	18.72	0.074
5	QPSK	1	24	18.67	0.074	18.70	0.074	18.68	0.074
5	QPSK	12	0	18.01	0.063	17.99	0.063	18.04	0.064
5	QPSK	12	7	17.94	0.062	18.18	0.066	17.91	0.062
5	QPSK	12	13	17.86	0.061	18.03	0.064	17.83	0.061
5	QPSK	25	0	17.99	0.063	18.02	0.063	17.81	0.060
5	16QAM	1	0	17.68	0.059	17.51	0.056	17.40	0.055
5	16QAM	1	12	17.51	0.056	17.78	0.060	17.39	0.055
5	16QAM	1	24	17.49	0.056	17.67	0.058	17.40	0.055
5	16QAM	12	0	17.33	0.054	17.48	0.056	17.57	0.057
5	16QAM	12	7	17.44	0.055	17.36	0.054	17.38	0.055
5	16QAM	12	13	17.48	0.056	17.57	0.057	17.48	0.056
5	16QAM	25	0	17.54	0.057	17.48	0.056	17.62	0.058

LTE Band26				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26805		26915		27025	
Frequency (MHz)				825.5		836.5		847.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	18.87	0.077	18.76	0.075	19.07	0.081
3	QPSK	1	8	18.71	0.074	19.00	0.079	18.57	0.072
3	QPSK	1	14	18.74	0.075	18.95	0.079	18.65	0.073

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3	QPSK	8	0	18.07	0.064	18.15	0.065	18.04	0.064
3	QPSK	8	4	17.94	0.062	18.17	0.066	17.99	0.063
3	QPSK	8	7	17.88	0.061	18.13	0.065	17.93	0.062
3	QPSK	15	0	18.01	0.063	18.18	0.066	17.97	0.063
3	16QAM	1	0	18.01	0.063	18.24	0.067	18.19	0.066
3	16QAM	1	8	18.00	0.063	18.45	0.070	18.01	0.063
3	16QAM	1	14	18.03	0.064	18.05	0.064	17.97	0.063
3	16QAM	8	0	17.40	0.055	17.40	0.055	17.62	0.058
3	16QAM	8	4	17.40	0.055	17.44	0.055	17.48	0.056
3	16QAM	8	7	17.48	0.056	17.38	0.055	17.58	0.057
3	16QAM	15	0	17.38	0.055	17.54	0.057	17.70	0.059

LTE Band26				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26797		26915		27033	
Frequency (MHz)				824.7		836.5		848.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	18.90	0.078	19.00	0.079	18.90	0.078
1.4	QPSK	1	3	18.89	0.077	18.85	0.077	18.93	0.078
1.4	QPSK	1	5	19.01	0.080	18.71	0.074	18.78	0.076
1.4	QPSK	3	0	18.98	0.079	19.03	0.080	19.21	0.083
1.4	QPSK	3	1	18.97	0.079	19.18	0.083	18.97	0.079
1.4	QPSK	3	3	19.03	0.080	19.14	0.082	18.81	0.076
1.4	QPSK	6	0	18.04	0.064	18.08	0.064	17.95	0.062
1.4	16QAM	1	0	17.73	0.059	18.07	0.064	18.05	0.064
1.4	16QAM	1	3	17.69	0.059	18.07	0.064	17.79	0.060
1.4	16QAM	1	5	17.71	0.059	17.91	0.062	17.66	0.058
1.4	16QAM	3	0	17.81	0.060	17.81	0.060	17.99	0.063
1.4	16QAM	3	1	17.97	0.063	18.19	0.066	18.14	0.065
1.4	16QAM	3	3	17.94	0.062	18.27	0.067	17.95	0.062
1.4	16QAM	6	0	17.37	0.055	17.38	0.055	17.37	0.055

LTE Band28				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26797		26915		27033	
Frequency (MHz)				824.7		836.5		848.3	

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Channel				27310		27460		27560	
Frequency (MHz)				713		728		738	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	16.25	0.042	16.26	0.042	16.29	0.043
20	QPSK	1	49	16.45	0.044	16.33	0.043	16.02	0.040
20	QPSK	1	99	16.22	0.042	16.31	0.043	16.15	0.041
20	QPSK	50	0	15.42	0.035	15.12	0.033	15.12	0.033
20	QPSK	50	24	15.37	0.034	15.16	0.033	15.09	0.032
20	QPSK	50	50	15.41	0.035	15.24	0.033	15.18	0.033
20	QPSK	100	0	15.31	0.034	15.33	0.034	15.06	0.032
20	16QAM	1	0	14.92	0.031	14.91	0.031	14.93	0.031
20	16QAM	1	49	15.00	0.032	15.39	0.035	15.08	0.032
20	16QAM	1	99	14.92	0.031	15.37	0.034	14.93	0.031
20	16QAM	50	0	14.75	0.030	14.93	0.031	14.59	0.029
20	16QAM	50	24	14.67	0.029	14.75	0.030	14.55	0.029
20	16QAM	50	50	14.62	0.029	14.69	0.029	14.63	0.029
20	16QAM	100	0	14.64	0.029	14.75	0.030	14.72	0.030

LTE Band28				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				27285		27435		27585	
Frequency (MHz)				710.5		725.5		740.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	16.32	0.043	16.16	0.041	16.23	0.042
15	QPSK	1	37	16.41	0.044	16.42	0.044	16.26	0.042
15	QPSK	1	74	16.05	0.040	16.40	0.044	16.15	0.041
15	QPSK	36	0	15.38	0.035	15.09	0.032	15.05	0.032
15	QPSK	36	20	15.41	0.035	15.25	0.033	15.07	0.032
15	QPSK	36	39	15.41	0.035	15.21	0.033	15.29	0.034
15	QPSK	75	0	15.47	0.035	15.28	0.034	15.07	0.032
15	16QAM	1	0	15.57	0.036	15.15	0.033	15.12	0.033
15	16QAM	1	37	15.62	0.036	15.42	0.035	15.35	0.034
15	16QAM	1	74	15.52	0.036	15.40	0.035	15.50	0.035
15	16QAM	36	0	14.93	0.031	15.00	0.032	15.10	0.032
15	16QAM	36	20	14.81	0.030	14.92	0.031	14.93	0.031
15	16QAM	36	39	14.80	0.030	14.83	0.030	14.85	0.031

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15	16QAM	75	0	14.85	0.031	14.81	0.030	14.77	0.030
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LTE Band28				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				27260		27410		27610	
Frequency (MHz)				708		723		743	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	16.26	0.042	16.02	0.040	15.95	0.039
10	QPSK	1	25	16.28	0.042	16.40	0.044	16.04	0.040
10	QPSK	1	49	16.25	0.042	16.32	0.043	16.06	0.040
10	QPSK	25	0	15.54	0.036	15.13	0.033	15.08	0.032
10	QPSK	25	12	15.57	0.036	15.28	0.034	15.11	0.032
10	QPSK	25	25	15.50	0.035	15.33	0.034	15.22	0.033
10	QPSK	50	0	15.49	0.035	15.29	0.034	15.16	0.033
10	16QAM	1	0	15.44	0.035	15.50	0.035	15.37	0.034
10	16QAM	1	25	15.57	0.036	15.41	0.035	15.35	0.034
10	16QAM	1	49	15.36	0.034	15.35	0.034	15.33	0.034
10	16QAM	25	0	14.93	0.031	15.00	0.032	14.82	0.030
10	16QAM	25	12	14.81	0.030	14.91	0.031	14.71	0.030
10	16QAM	25	25	14.78	0.030	14.85	0.031	14.70	0.030
10	16QAM	50	0	14.85	0.031	14.96	0.031	14.83	0.030

LTE Band28				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				27235		27385		27635	
Frequency (MHz)				705.5		720.5		745.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	16.37	0.043	16.03	0.040	16.07	0.040
5	QPSK	1	12	16.27	0.042	16.35	0.043	16.25	0.042
5	QPSK	1	24	16.23	0.042	16.24	0.042	16.13	0.041
5	QPSK	12	0	15.48	0.035	15.08	0.032	15.09	0.032
5	QPSK	12	7	15.43	0.035	15.21	0.033	15.18	0.033
5	QPSK	12	13	15.53	0.036	15.28	0.034	15.26	0.034
5	QPSK	25	0	15.61	0.036	15.32	0.034	15.25	0.033

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5	16QAM	1	0	15.53	0.036	15.25	0.033	15.39	0.035
5	16QAM	1	12	15.50	0.035	15.23	0.033	15.49	0.035
5	16QAM	1	24	15.52	0.036	15.27	0.034	15.23	0.033
5	16QAM	12	0	14.82	0.030	14.93	0.031	14.81	0.030
5	16QAM	12	7	14.73	0.030	14.85	0.031	14.69	0.029
5	16QAM	12	13	14.70	0.030	14.81	0.030	14.65	0.029
5	16QAM	25	0	14.76	0.030	14.90	0.031	14.81	0.030

LTE Band28				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				27225		27375		27645	
Frequency (MHz)				704.5		719.5		746.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	16.38	0.043	16.23	0.042	16.32	0.043
3	QPSK	1	8	16.22	0.042	16.22	0.042	16.15	0.041
3	QPSK	1	14	16.35	0.043	16.23	0.042	16.03	0.040
3	QPSK	8	0	15.33	0.034	15.28	0.034	15.23	0.033
3	QPSK	8	4	15.44	0.035	15.44	0.035	15.18	0.033
3	QPSK	8	7	15.41	0.035	15.41	0.035	15.09	0.032
3	QPSK	15	0	15.35	0.034	15.35	0.034	15.11	0.032
3	16QAM	1	0	15.40	0.035	15.35	0.034	15.32	0.034
3	16QAM	1	8	15.60	0.036	15.47	0.035	15.43	0.035
3	16QAM	1	14	15.73	0.037	15.54	0.036	15.35	0.034
3	16QAM	8	0	14.93	0.031	14.81	0.030	14.73	0.030
3	16QAM	8	4	14.80	0.030	14.82	0.030	14.62	0.029
3	16QAM	8	7	14.60	0.029	14.67	0.029	14.55	0.029
3	16QAM	15	0	14.67	0.029	14.62	0.029	14.67	0.029

LTE Band 30				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		27710		/	



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Frequency (MHz)				/	2310		/
		dbm	W	dbm	W	dbm	W
10	QPSK	1	0	/	/	20.40	0.110
10	QPSK	1	25	/	/	20.34	0.108
10	QPSK	1	49	/	/	20.18	0.104
10	QPSK	25	0	/	/	19.35	0.086
10	QPSK	25	12	/	/	19.33	0.086
10	QPSK	25	25	/	/	19.28	0.085
10	QPSK	50	0	/	/	19.30	0.085
10	16QAM	1	0	/	/	19.07	0.081
10	16QAM	1	25	/	/	19.42	0.087
10	16QAM	1	49	/	/	19.12	0.082
10	16QAM	25	0	/	/	19.17	0.083
10	16QAM	25	12	/	/	19.10	0.081
10	16QAM	25	25	/	/	19.13	0.082
10	16QAM	50	0	/	/	19.27	0.085

LTE Band 30				Measured EIRP				
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.
Channel				27685		27710		27735
Frequency (MHz)				2307.5		2310		2312.5
				dbm	W	dbm	W	dbm
5	QPSK	1	0	20.09	0.102	20.06	0.101	20.36
5	QPSK	1	12	20.21	0.105	20.37	0.109	20.39
5	QPSK	1	24	19.96	0.099	20.10	0.102	20.24
5	QPSK	12	0	19.34	0.086	19.30	0.085	19.25
5	QPSK	12	7	19.31	0.085	19.38	0.087	19.29
5	QPSK	12	13	19.22	0.084	19.32	0.086	19.20
5	QPSK	25	0	19.27	0.085	19.30	0.085	19.32
5	16QAM	1	0	19.05	0.080	19.10	0.081	19.42
5	16QAM	1	12	19.20	0.083	19.05	0.080	19.27
5	16QAM	1	24	19.29	0.085	19.20	0.083	19.13
5	16QAM	12	0	19.48	0.089	19.41	0.087	19.20
5	16QAM	12	7	19.49	0.089	19.32	0.086	19.23
5	16QAM	12	13	19.43	0.088	19.27	0.085	19.12

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5	16QAM	25	0	19.10	0.081	19.21	0.083	19.16	0.082
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LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39750		40620		41490	
Frequency (MHz)				2506		2593		2680	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	20.67	0.117	20.82	0.121	20.81	0.121
20	QPSK	1	12	20.77	0.119	20.81	0.121	20.71	0.118
20	QPSK	1	24	20.70	0.117	20.66	0.116	20.66	0.116
20	QPSK	12	0	19.51	0.089	19.88	0.097	19.75	0.094
20	QPSK	12	7	19.52	0.090	19.76	0.095	19.81	0.096
20	QPSK	12	13	19.50	0.089	19.69	0.093	19.79	0.095
20	QPSK	25	0	19.40	0.087	19.64	0.092	19.81	0.096
20	16QAM	1	0	19.57	0.091	19.41	0.087	19.52	0.090
20	16QAM	1	12	19.51	0.089	19.60	0.091	19.67	0.093
20	16QAM	1	24	19.80	0.095	19.68	0.093	19.54	0.090
20	16QAM	12	0	18.39	0.069	18.65	0.073	18.83	0.076
20	16QAM	12	7	18.54	0.071	18.74	0.075	18.81	0.076
20	16QAM	12	13	18.47	0.070	18.58	0.072	18.80	0.076
20	16QAM	25	0	19.10	0.081	19.21	0.083	19.16	0.082

LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39725		40620		41515	
Frequency (MHz)				2503.5		2593		2682.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	20.63	0.116	20.54	0.113	20.70	0.117
15	QPSK	1	12	20.71	0.118	20.71	0.118	20.45	0.111
15	QPSK	1	24	20.60	0.115	20.68	0.117	20.67	0.117
15	QPSK	12	0	19.48	0.089	19.58	0.091	19.90	0.098
15	QPSK	12	7	19.60	0.091	19.83	0.096	19.91	0.098
15	QPSK	12	13	19.61	0.091	19.71	0.094	19.82	0.096

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15	QPSK	25	0	19.44	0.088	19.73	0.094	19.69	0.093
15	16QAM	1	0	19.47	0.089	19.32	0.086	19.56	0.090
15	16QAM	1	12	19.78	0.095	19.63	0.092	19.70	0.093
15	16QAM	1	24	19.80	0.095	19.62	0.092	19.44	0.088
15	16QAM	12	0	18.50	0.071	18.61	0.073	18.81	0.076
15	16QAM	12	7	18.48	0.070	18.78	0.076	18.85	0.077
15	16QAM	12	13	18.79	0.076	18.58	0.072	18.87	0.077
15	16QAM	25	0	18.61	0.073	18.71	0.074	18.86	0.077

LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39700		40620		41540	
Frequency (MHz)				2501		2593		2685	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	20.12	0.103	20.57	0.114	20.45	0.111
10	QPSK	1	12	20.51	0.112	20.58	0.114	20.55	0.114
10	QPSK	1	24	20.59	0.115	20.44	0.111	20.47	0.111
10	QPSK	12	0	19.58	0.091	19.76	0.095	19.84	0.096
10	QPSK	12	7	19.60	0.091	19.85	0.097	19.95	0.099
10	QPSK	12	13	19.57	0.091	19.76	0.095	19.89	0.097
10	QPSK	25	0	19.59	0.091	19.73	0.094	19.81	0.096
10	16QAM	1	0	19.47	0.089	19.70	0.093	19.50	0.089
10	16QAM	1	12	19.80	0.095	19.62	0.092	19.65	0.092
10	16QAM	1	24	19.70	0.093	19.75	0.094	19.70	0.093
10	16QAM	12	0	18.72	0.074	18.56	0.072	19.03	0.080
10	16QAM	12	7	18.77	0.075	18.85	0.077	18.91	0.078
10	16QAM	12	13	18.73	0.075	18.86	0.077	18.98	0.079
10	16QAM	25	0	18.48	0.070	18.72	0.074	18.71	0.074

LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39675		40620		41565	
Frequency (MHz)				2498.5		2593		2687.5	



				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	20.65	0.116	20.45	0.111	20.68	0.117
5	QPSK	1	12	20.56	0.114	20.71	0.118	20.71	0.118
5	QPSK	1	24	20.51	0.112	20.57	0.114	20.67	0.117
5	QPSK	12	0	19.54	0.090	19.75	0.094	19.94	0.099
5	QPSK	12	7	19.51	0.089	19.83	0.096	19.88	0.097
5	QPSK	12	13	19.48	0.089	19.71	0.094	19.91	0.098
5	QPSK	25	0	19.50	0.089	19.73	0.094	19.91	0.098
5	16QAM	1	0	19.37	0.086	19.15	0.082	19.48	0.089
5	16QAM	1	12	19.27	0.085	19.49	0.089	19.61	0.091
5	16QAM	1	24	19.26	0.084	19.28	0.085	19.41	0.087
5	16QAM	12	0	18.71	0.074	18.74	0.075	18.74	0.075
5	16QAM	12	7	18.67	0.074	18.81	0.076	18.79	0.076
5	16QAM	12	13	18.68	0.074	18.70	0.074	18.79	0.076
5	16QAM	25	0	18.69	0.074	18.94	0.078	18.92	0.078

LTE Band 66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132072		132322		132572	
Frequency (MHz)				1720		1745		1770	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	19.72	0.094	20.06	0.101	19.85	0.097
20	QPSK	1	12	19.79	0.095	19.97	0.099	19.60	0.091
20	QPSK	1	24	19.81	0.096	19.66	0.092	19.68	0.093
20	QPSK	12	0	18.90	0.078	18.93	0.078	18.86	0.077
20	QPSK	12	7	18.87	0.077	18.79	0.076	18.73	0.075
20	QPSK	12	13	18.75	0.075	18.66	0.073	18.75	0.075
20	QPSK	25	0	18.77	0.075	18.75	0.075	18.67	0.074
20	16QAM	1	0	18.73	0.075	18.52	0.071	18.74	0.075
20	16QAM	1	12	18.76	0.075	18.46	0.070	18.78	0.076
20	16QAM	1	24	18.56	0.072	18.30	0.068	18.67	0.074
20	16QAM	12	0	18.09	0.064	18.20	0.066	18.30	0.068
20	16QAM	12	7	18.20	0.066	18.30	0.068	18.10	0.065
20	16QAM	12	13	18.30	0.068	18.24	0.067	18.27	0.067
20	16QAM	25	0	18.13	0.065	18.35	0.068	18.30	0.068



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LTE Band 66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	19.68	0.093	19.96	0.099	19.78	0.095
15	QPSK	1	12	19.69	0.093	19.87	0.097	19.79	0.095
15	QPSK	1	24	19.71	0.094	19.86	0.097	19.70	0.093
15	QPSK	12	0	18.80	0.076	18.93	0.078	18.76	0.075
15	QPSK	12	7	18.77	0.075	18.79	0.076	18.83	0.076
15	QPSK	12	13	18.68	0.074	18.82	0.076	18.85	0.077
15	QPSK	25	0	18.70	0.074	18.71	0.074	18.87	0.077
15	16QAM	1	0	18.16	0.065	18.12	0.065	18.17	0.066
15	16QAM	1	12	18.17	0.066	18.16	0.065	18.44	0.070
15	16QAM	1	24	18.24	0.067	18.44	0.070	18.17	0.066
15	16QAM	12	0	18.10	0.065	18.30	0.068	18.24	0.067
15	16QAM	12	7	18.30	0.068	18.20	0.066	18.38	0.069
15	16QAM	12	13	18.10	0.065	18.24	0.067	18.27	0.067
15	16QAM	25	0	18.23	0.067	18.35	0.068	18.30	0.068

LTE Band 66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	19.71	0.094	19.86	0.097	19.84	0.096
10	QPSK	1	12	19.76	0.095	19.87	0.097	19.81	0.096
10	QPSK	1	24	19.75	0.094	19.76	0.095	19.80	0.095
10	QPSK	12	0	18.70	0.074	18.73	0.075	18.86	0.077
10	QPSK	12	7	18.68	0.074	18.69	0.074	18.81	0.076
10	QPSK	12	13	18.71	0.074	18.86	0.077	18.82	0.076
10	QPSK	25	0	18.77	0.075	18.81	0.076	18.97	0.079
10	16QAM	1	0	18.20	0.066	18.22	0.066	18.27	0.067

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10	16QAM	1	12	18.37	0.069	18.36	0.069	18.14	0.065
10	16QAM	1	24	18.34	0.068	18.24	0.067	18.08	0.064
10	16QAM	12	0	18.20	0.066	18.20	0.066	18.14	0.065
10	16QAM	12	7	18.40	0.069	18.10	0.065	18.26	0.067
10	16QAM	12	13	18.50	0.071	18.34	0.068	18.17	0.066
10	16QAM	25	0	18.23	0.067	18.55	0.072	18.20	0.066

LTE Band 66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131997		132322		132647	
Frequency (MHz)				1712.5		1745		1777.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	19.81	0.096	19.70	0.093	19.74	0.094
5	QPSK	1	12	19.84	0.096	19.79	0.095	19.73	0.094
5	QPSK	1	24	19.69	0.093	19.71	0.094	19.71	0.094
5	QPSK	12	0	18.76	0.075	18.69	0.074	18.86	0.077
5	QPSK	12	7	18.74	0.075	18.79	0.076	18.69	0.074
5	QPSK	12	13	18.75	0.075	18.96	0.079	18.72	0.074
5	QPSK	25	0	18.78	0.076	18.75	0.075	18.77	0.075
5	16QAM	1	0	18.23	0.067	18.10	0.065	18.17	0.066
5	16QAM	1	12	18.47	0.070	18.22	0.066	18.34	0.068
5	16QAM	1	24	18.14	0.065	18.17	0.066	18.40	0.069
5	16QAM	12	0	18.22	0.066	18.24	0.067	18.25	0.067
5	16QAM	12	7	18.10	0.065	18.32	0.068	18.16	0.065
5	16QAM	12	13	18.24	0.067	18.28	0.067	18.21	0.066
5	16QAM	25	0	18.12	0.065	18.24	0.067	18.16	0.065

LTE Band 66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131987		132322		132657	
Frequency (MHz)				1711.5		1745		1778.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	19.71	0.094	19.68	0.093	19.69	0.093



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3	QPSK	1	12	19.74	0.094	19.78	0.095	19.73	0.094
3	QPSK	1	24	19.70	0.093	19.80	0.095	19.74	0.094
3	QPSK	12	0	18.73	0.075	18.77	0.075	18.80	0.076
3	QPSK	12	7	18.83	0.076	18.78	0.076	18.77	0.075
3	QPSK	12	13	18.77	0.075	18.76	0.075	18.77	0.075
3	QPSK	25	0	18.72	0.074	18.80	0.076	18.69	0.074
3	16QAM	1	0	18.27	0.067	18.24	0.067	18.28	0.067
3	16QAM	1	12	18.33	0.068	18.15	0.065	18.24	0.067
3	16QAM	1	24	18.19	0.066	18.12	0.065	18.30	0.068
3	16QAM	12	0	18.15	0.065	18.22	0.066	18.11	0.065
3	16QAM	12	7	18.10	0.065	18.12	0.065	18.26	0.067
3	16QAM	12	13	18.39	0.069	18.20	0.066	18.25	0.067
3	16QAM	25	0	18.15	0.065	18.15	0.065	18.14	0.065

LTE Band 66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.5		1745		1779.5	
			dbm		W	dbm	W	dbm	W
1.4	QPSK	1	0	19.64	0.092	19.67	0.093	19.74	0.094
1.4	QPSK	1	12	19.67	0.093	19.70	0.093	19.73	0.094
1.4	QPSK	1	24	19.68	0.093	19.69	0.093	19.71	0.094
1.4	QPSK	12	0	18.67	0.074	18.70	0.074	18.86	0.077
1.4	QPSK	12	7	18.78	0.076	18.60	0.072	18.69	0.074
1.4	QPSK	12	13	18.66	0.073	18.58	0.072	18.72	0.074
1.4	QPSK	25	0	18.67	0.074	18.67	0.074	18.77	0.075
1.4	16QAM	1	0	18.10	0.065	18.16	0.065	18.17	0.066
1.4	16QAM	1	12	18.17	0.066	18.34	0.068	18.34	0.068
1.4	16QAM	1	24	18.25	0.067	18.19	0.066	18.40	0.069
1.4	16QAM	12	0	18.32	0.068	18.40	0.069	18.25	0.067
1.4	16QAM	12	7	18.19	0.066	18.13	0.065	18.13	0.065
1.4	16QAM	12	13	18.10	0.065	18.22	0.066	18.31	0.068
1.4	16QAM	25	0	18.19	0.066	18.11	0.065	18.39	0.069

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LTE Band 71				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133222		133322		133372	
Frequency (MHz)				673		683		688	
			dbm		W	dbm	W	dbm	W
20	QPSK	1	0	20.61	0.115	20.56	0.114	20.55	0.114
20	QPSK	1	12	20.36	0.109	20.39	0.109	20.48	0.112
20	QPSK	1	24	20.45	0.111	20.38	0.109	20.55	0.114
20	QPSK	12	0	20.52	0.113	20.19	0.104	20.12	0.103
20	QPSK	12	7	20.11	0.103	20.24	0.106	20.30	0.107
20	QPSK	12	13	20.17	0.104	20.34	0.108	20.18	0.104
20	QPSK	25	0	20.08	0.102	20.19	0.104	20.07	0.102
20	16QAM	1	0	19.28	0.085	19.25	0.084	19.12	0.082
20	16QAM	1	12	19.20	0.083	19.22	0.084	19.11	0.081
20	16QAM	1	24	19.37	0.086	19.18	0.083	19.15	0.082
20	16QAM	12	0	19.07	0.081	19.34	0.086	19.19	0.083
20	16QAM	12	7	19.13	0.082	19.10	0.081	19.27	0.085
20	16QAM	12	13	19.08	0.081	19.17	0.083	19.38	0.087
20	16QAM	25	0	19.17	0.083	19.08	0.081	19.14	0.082

LTE Band 71				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133197		133297		133397	
Frequency (MHz)				670.5		680.5		690.5	
			dbm		W	dbm	W	dbm	W
15	QPSK	1	0	20.55	0.114	20.53	0.113	20.45	0.111
15	QPSK	1	12	20.37	0.109	20.49	0.112	20.48	0.112
15	QPSK	1	24	20.15	0.104	20.38	0.109	20.40	0.110
15	QPSK	12	0	20.45	0.111	20.52	0.113	20.43	0.110
15	QPSK	12	7	20.38	0.109	20.33	0.108	20.24	0.106
15	QPSK	12	13	20.19	0.104	20.25	0.106	20.14	0.103
15	QPSK	25	0	20.12	0.103	20.09	0.102	20.11	0.103
15	16QAM	1	0	19.18	0.083	19.17	0.083	19.22	0.084
15	16QAM	1	12	19.30	0.085	19.12	0.082	19.37	0.086

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15	16QAM	1	24	19.37	0.086	19.19	0.083	19.25	0.084
15	16QAM	12	0	19.08	0.081	19.19	0.083	19.34	0.086
15	16QAM	12	7	19.41	0.087	19.07	0.081	19.17	0.083
15	16QAM	12	13	19.07	0.081	19.27	0.085	19.28	0.085
15	16QAM	25	0	19.29	0.085	19.14	0.082	19.04	0.080

LTE Band 71				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133172		133297		133422	
Frequency (MHz)				668		680.5		693	
			dbm	W	dbm	W	dbm	W	
10	QPSK	1	0	20.45	0.111	20.55	0.114	20.47	0.111
10	QPSK	1	12	20.28	0.107	20.52	0.113	20.30	0.107
10	QPSK	1	24	20.17	0.104	20.17	0.104	20.38	0.109
10	QPSK	12	0	20.24	0.106	20.37	0.109	20.47	0.111
10	QPSK	12	7	20.41	0.110	20.34	0.108	20.19	0.104
10	QPSK	12	13	20.25	0.106	20.10	0.102	20.35	0.108
10	QPSK	25	0	20.22	0.105	20.09	0.102	20.19	0.104
10	16QAM	1	0	19.34	0.086	19.24	0.084	19.25	0.084
10	16QAM	1	12	19.05	0.080	19.16	0.082	19.07	0.081
10	16QAM	1	24	19.03	0.080	19.25	0.084	19.15	0.082
10	16QAM	12	0	19.09	0.081	19.33	0.086	19.30	0.085
10	16QAM	12	7	19.25	0.084	19.25	0.084	19.11	0.081
10	16QAM	12	13	19.19	0.083	19.14	0.082	19.25	0.084
10	16QAM	25	0	19.44	0.088	19.30	0.085	19.19	0.083

LTE Band 71				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				133147		133297		133447	
Frequency (MHz)				665.5		680.5		695.5	
			dbm	W	dbm	W	dbm	W	
5	QPSK	1	0	20.26	0.106	20.54	0.113	20.48	0.112
5	QPSK	1	12	20.31	0.107	20.34	0.108	20.17	0.104



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5	QPSK	1	24	20.34	0.108	20.38	0.109	20.48	0.112
5	QPSK	12	0	20.44	0.111	20.17	0.104	20.37	0.109
5	QPSK	12	7	20.19	0.104	20.30	0.107	20.30	0.107
5	QPSK	12	13	20.15	0.104	20.37	0.109	20.35	0.108
5	QPSK	25	0	20.17	0.104	20.14	0.103	20.24	0.106
5	16QAM	1	0	19.30	0.085	19.32	0.086	19.19	0.083
5	16QAM	1	12	19.21	0.083	19.37	0.086	19.33	0.086
5	16QAM	1	24	19.07	0.081	19.12	0.082	19.25	0.084
5	16QAM	12	0	19.26	0.084	19.17	0.083	19.07	0.081
5	16QAM	12	7	19.05	0.080	19.19	0.083	19.14	0.082
5	16QAM	12	13	19.17	0.083	19.26	0.084	19.34	0.086
5	16QAM	25	0	19.37	0.086	19.47	0.089	19.23	0.084

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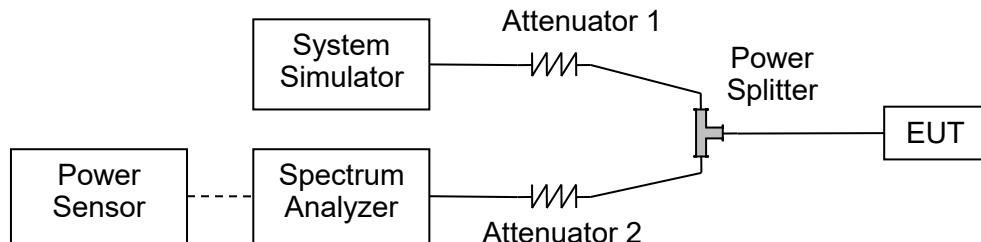
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2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. 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.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.



2.2.4. Test Result

LTEBand26				
BW(MHz)	ChannelLevel	Modulation	99% BW (MHz)	26dB BW (MHz)
1.4	Low	QPSK	1.09	1.28
	Low	16QAM	1.09	1.29
	Mid	QPSK	1.09	1.28
	Mid	16QAM	1.09	1.29
	High	QPSK	1.10	1.28
	High	16QAM	1.09	1.29
3	Low	QPSK	2.69	2.94
	Low	16QAM	2.68	2.91
	Mid	QPSK	2.69	2.93
	Mid	16QAM	2.68	2.92
	High	QPSK	2.69	2.96
	High	16QAM	2.68	2.92
5	Low	QPSK	4.48	4.93
	Low	16QAM	4.46	4.89
	Mid	QPSK	4.48	4.94
	Mid	16QAM	4.47	4.90
	High	QPSK	4.48	4.91
	High	16QAM	4.47	4.92
10	Low	QPSK	8.91	9.68
	Low	16QAM	8.92	9.65
	Mid	QPSK	8.94	9.69
	Mid	16QAM	8.94	9.73
	High	QPSK	8.88	9.59
	High	16QAM	8.89	9.59
15	Low	QPSK	13.32	14.41
	Low	16QAM	13.31	14.26
	Mid	QPSK	13.40	14.46
	Mid	16QAM	13.41	14.53
	High	QPSK	13.34	14.33
	High	16QAM	13.33	14.30



LTEBand28				
BW(MHz)	ChannelLevel	Modulation	99% BW (MHz)	26dB BW (MHz)
3	Low	QPSK	2.69	2.97
	Low	16QAM	2.68	2.93
	Mid	QPSK	2.69	2.97
	Mid	16QAM	2.68	2.93
	High	QPSK	2.69	2.96
	High	16QAM	2.68	2.93
5	Low	QPSK	4.52	5.01
	Low	16QAM	4.51	4.95
	Mid	QPSK	4.52	5.03
	Mid	16QAM	4.49	4.98
	High	QPSK	4.51	4.96
	High	16QAM	4.52	5.01
10	Low	QPSK	8.92	9.72
	Low	16QAM	8.93	9.68
	Mid	QPSK	8.93	9.71
	Mid	16QAM	8.93	9.69
	High	QPSK	8.92	9.68
	High	16QAM	8.92	9.69
15	Low	QPSK	13.35	14.30
	Low	16QAM	13.35	14.38
	Mid	QPSK	13.35	14.38
	Mid	16QAM	13.37	14.38
	High	QPSK	13.36	14.38
	High	16QAM	13.39	14.50
20	Low	QPSK	17.79	19.00
	Low	16QAM	17.78	18.97
	Mid	QPSK	17.80	18.87
	Mid	16QAM	17.75	18.86
	High	QPSK	17.86	19.04
	High	16QAM	17.79	18.95



LTEBand30				
BW(MHz)	ChannelLevel	Modulation	99% BW (MHz)	26dB BW (MHz)
5	Low	QPSK	4.52	5.06
	Low	16QAM	4.51	5.02
	Mid	QPSK	4.52	5.11
	Mid	16QAM	4.51	5.02
	High	QPSK	4.49	4.96
	High	16QAM	4.51	5.04
10	Mid	QPSK	9.03	9.88
	Mid	16QAM	8.98	9.84

LTEBand41				
BW(MHz)	ChannelLevel	Modulation	99% BW (MHz)	26dB BW (MHz)
5	Low	QPSK	4.51	5.32
	Low	16QAM	4.51	5.03
	Mid	QPSK	4.5	5.33
	Mid	16QAM	4.51	5.01
	High	QPSK	4.52	5.3
	High	16QAM	4.51	4.97
10	Low	QPSK	8.99	10.6
	Low	16QAM	8.95	9.88
	Mid	QPSK	8.99	10.63
	Mid	16QAM	8.97	10.01
	High	QPSK	8.98	10.15
	High	16QAM	8.95	9.94
15	Low	QPSK	13.46	14.6
	Low	16QAM	13.45	14.69
	Mid	QPSK	13.45	14.8
	Mid	16QAM	13.47	14.69
	High	QPSK	13.47	14.92
	High	16QAM	13.45	15.24
20	Low	QPSK	17.91	19.95
	Low	16QAM	17.94	19.49



	Mid	QPSK	17.9	19.7
	Mid	16QAM	17.88	19.44
	High	QPSK	17.88	19.85
	High	16QAM	17.9	20.06

LTEBand66				
BW(MHz)	ChannelLevel	Modulation	99% BW (MHz)	26dB BW (MHz)
1.4	Low	QPSK	1.09	1.28
	Low	16QAM	1.09	1.27
	Mid	QPSK	1.09	1.28
	Mid	16QAM	1.09	1.28
	High	QPSK	1.10	1.27
	High	16QAM	1.10	1.29
3	Low	QPSK	2.69	3.00
	Low	16QAM	2.70	2.97
	Mid	QPSK	2.69	2.96
	Mid	16QAM	2.69	2.96
	High	QPSK	2.69	2.98
	High	16QAM	2.70	2.98
5	Low	QPSK	4.50	5.02
	Low	16QAM	4.49	4.96
	Mid	QPSK	4.49	4.97
	Mid	16QAM	4.50	5.00
	High	QPSK	4.50	4.96
	High	16QAM	4.50	4.97
10	Low	QPSK	8.97	9.84
	Low	16QAM	8.95	9.64
	Mid	QPSK	8.95	9.77
	Mid	16QAM	8.94	9.74
	High	QPSK	8.94	9.75
	High	16QAM	8.93	9.66
15	Low	QPSK	13.43	14.51
	Low	16QAM	13.44	14.42
	Mid	QPSK	13.42	14.58
	Mid	16QAM	13.47	14.42
	High	QPSK	13.41	14.55

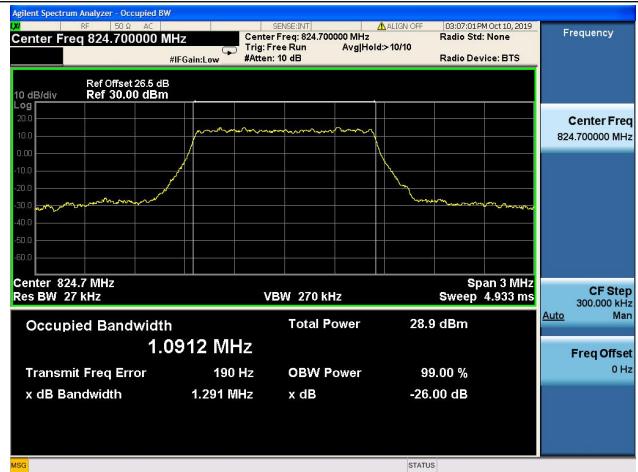


	High	16QAM	13.39	14.37
20	Low	QPSK	17.91	19.37
	Low	16QAM	17.90	19.38
	Mid	QPSK	17.87	19.28
	Mid	16QAM	17.88	19.28
	High	QPSK	17.83	19.25
	High	16QAM	17.87	19.05

LTEBand71				
BW(MHz)	ChannelLevel	Modulation	99% BW (MHz)	26dB BW (MHz)
5	Low	QPSK	4.49	5.03
	Low	16QAM	4.50	4.94
	Mid	QPSK	4.48	4.98
	Mid	16QAM	4.49	4.96
	High	QPSK	4.49	4.99
	High	16QAM	4.50	4.93
10	Low	QPSK	8.94	9.75
	Low	16QAM	8.94	9.65
	Mid	QPSK	8.94	9.74
	Mid	16QAM	8.95	9.69
	High	QPSK	8.97	9.81
	High	16QAM	8.94	9.65
15	Low	QPSK	13.41	14.44
	Low	16QAM	13.43	14.49
	Mid	QPSK	13.45	14.50
	Mid	16QAM	13.44	14.61
	High	QPSK	13.43	14.63
	High	16QAM	13.40	14.67
20	Low	QPSK	17.83	19.23
	Low	16QAM	17.87	19.14
	Mid	QPSK	17.85	19.17
	Mid	16QAM	17.88	19.23
	High	QPSK	17.88	19.25
	High	16QAM	17.87	19.23



REPORT No.: SZ19100008W03

Band 26/ 1.4MHz/ Low CH/QPSK**Band 26/ 1.4MHz/ Low CH/16QAM****Band 26/ 1.4MHz/Mid CH/QPSK****Band 26/ 1.4MHz/Mid CH/16QAM****Band 26/ 1.4MHz/High CH/QPSK****Band 26/ 1.4MHz/High CH/16QAM****MORLAB**

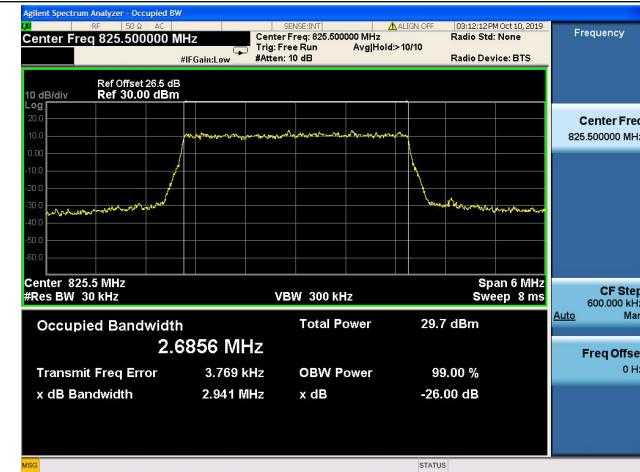
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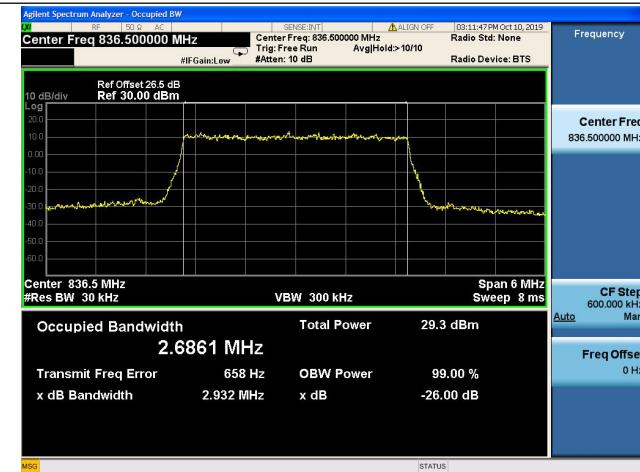
Band 26/ 3MHz/ Low CH/QPSK



Band 26/ 3MHz/ Low CH/16QAM



Band 26/ 3MHz/Mid CH/QPSK



Band 26/ 3MHz/ Mid CH/16QAM



Band 26/ 3MHz/High CH/QPSK



Band 26/ 3MHz/ MidHigh CH/16QAM

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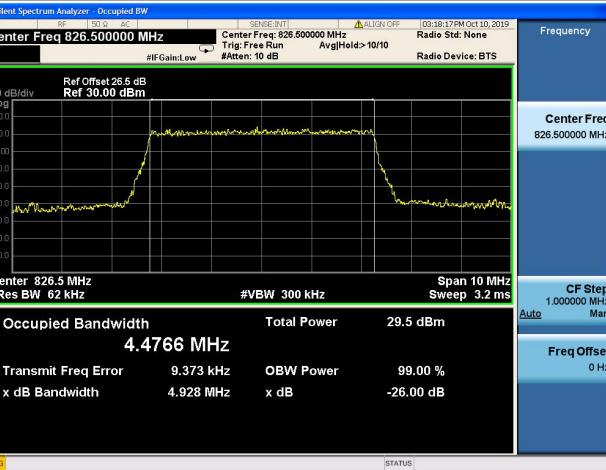
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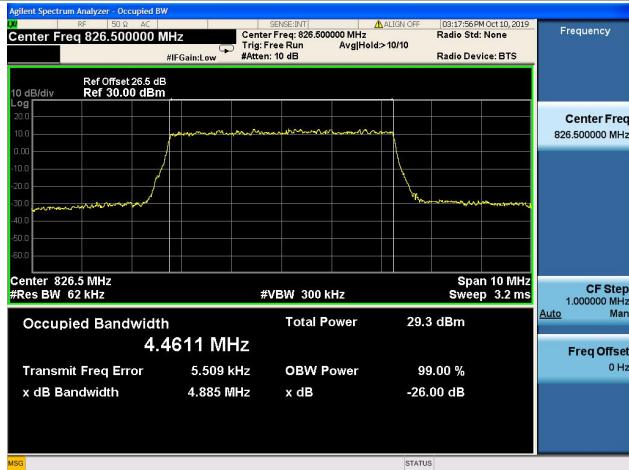


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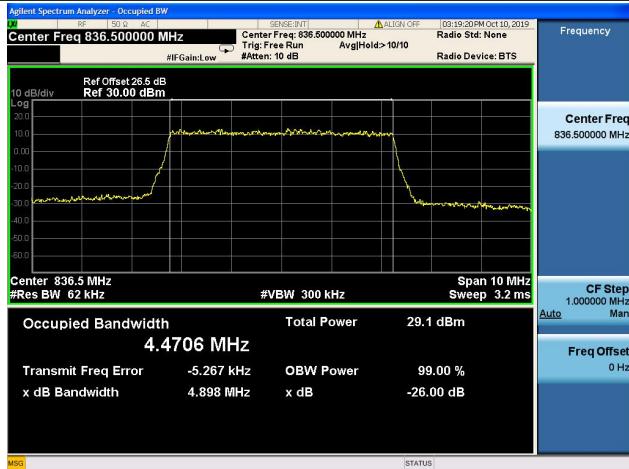
Band 26/ 5MHz/ Low CH/16QAM



Band 26/ 5MHz/Mid CH/QPSK



Band 26/ 5MHz/Mid CH/16QAM



Band 26/ 5MHz/High CH/QPSK



Band 26/ 5MHz/High CH/16QAM

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Band 26/ 10MHz/ Low CH/QPSK



Band 26/ 10MHz/ Low CH/16QAM



Band 26/ 10MHz/Mid CH/QPSK



Band 26/ 10MHz/ Mid CH/16QAM



Band 26/ 10MHz/High CH/QPSK



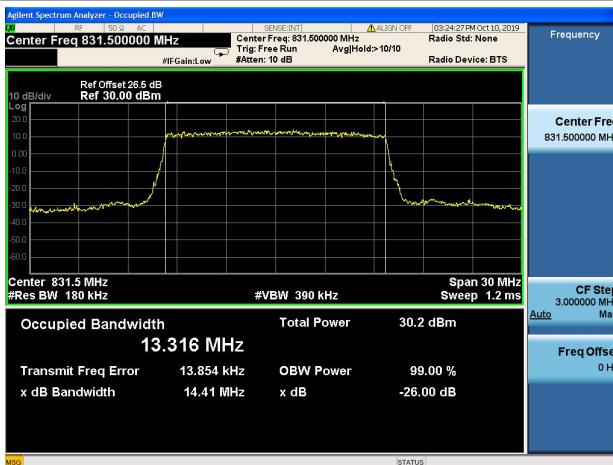
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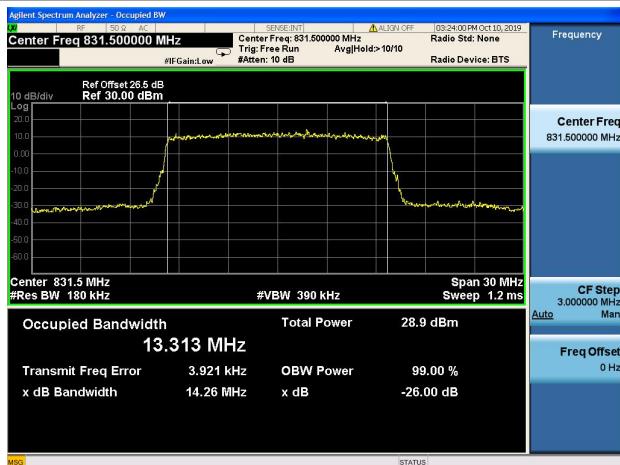


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Band 26/ 15MHz/ Low CH/QPSK



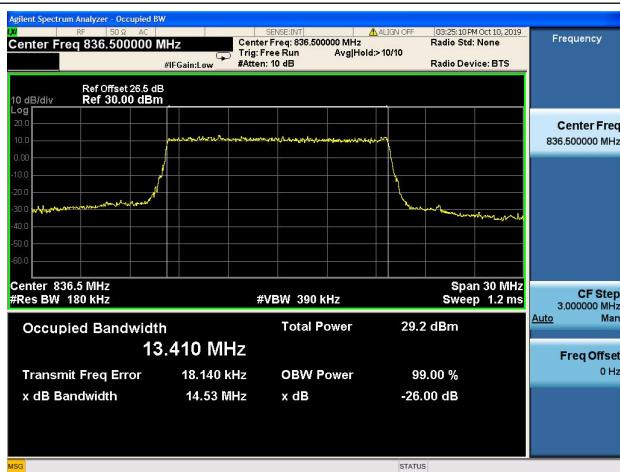
Band 26/ 15MHz/ Low CH/16QAM



Band 26/ 15MHz/Mid CH/QPSK



Band 26/ 15MHz/Mid CH/16QAM



Band 26/ 15MHz/High CH/QPSK



Band 26/ 15MHz/High CH/16QAM

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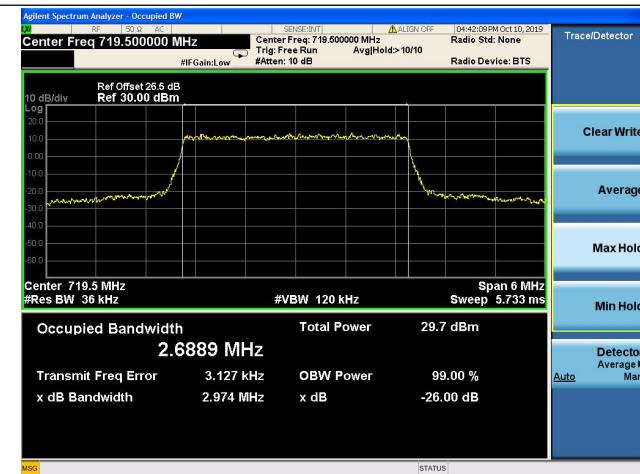
Band 28/ 3MHz/ Low CH/QPSK



Band 28/ 3MHz/ Low CH/16QAM



Band 28/ 3MHz/Mid CH/QPSK



Band 28/ 3MHz/Mid CH/16QAM



Band 28/ 3MHz/High CH/QPSK



Band 28/ 3MHz/High CH/16QAM

