

CERTIFICATION TEST REPORT

Report Number. : S-4791440365-E4V1

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SM-A166U, SM-A166U1, SM-S166V

FCC ID : A3LSMA166U

EUT Description : GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac
and NFC

Test Standard(s) : FCC 47 CFR PART 27 SUBPART D,F,H,L,M,N,O,P,Q

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Revision History

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC.

MODEL NUMBER: SM-A166U, SM-A166U1, SM-S166V

SERIAL NUMBER: R3CX807W0WX, R3CX807W0XL, R3CX807W0YN, R3CX807W0VV (CONDUCTED);
R3CX807W0TD, R3CX807W0WX, 86182F51a0347ece.
8618ef519f357ece, R3X80Q3G8P, R3X80Q3GAD (RADIATED);

DATE TESTED: 2024-08-20 – 2024-10-10;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 27D,F,H,L,M,N,O,P,Q	Complies

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and Modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:

Tested By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

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UL KOREA LTD.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 27.
3. ANSI TIA-603-E, 2016
4. ANSI C63.26, 2015
5. KDB 971168 D01 Power Meas License Digital Systems v03r01
6. KDB 971168 D02 Misc Rev Approv License Devices v02r02
7. KDB 412172 D01 Determining ERP and EIRP v01r01

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
☒	Chamber 1(3m semi-anechoic chamber)
☒	Chamber 2(3m semi-anechoic chamber)
☐	Chamber 3(3m semi-anechoic chamber)
☒	Chamber 4(3m Full-anechoic chamber)
☐	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\text{EIRP} = \text{SG reading with EUT worst orientation (dBm)} - \text{cable loss(between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$$

$$\text{ERP} = \text{SG reading with EUT worst orientation (dBm)} - \text{cable loss(between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBd)}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.79 dB
Radiated Disturbance, 9 kHz to 30 MHz	1.69 dB
Radiated Disturbance, 30 MHz to 1 GHz	4.07 dB
Radiated Disturbance, 1 GHz to 18 GHz	4.99 dB
Radiated Disturbance, Above 18 GHz	5.96 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.3.3 in IEC Guide 115:2023.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC.
This test report addresses the WWAN operational mode.

Representative model	Difference	Derivative model
		SM-A166U1, SM-S166V
SM-A166U	Hardware	Same
	Software	The UI has changed according to Service Provider

The model SM-A166U was used for final testing and is representative of the test results in this report.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum average radiated ERP / EIRP output powers as follows:
Radiated samples were tested to a higher power than conducted resulting in radiated EIRP greater than conducted measurements.

WCDMA

FCC Part 27							
Band	ANT	Frequency Range [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 4	A	1712.40 ~ 1752.60	Rel. 99	24.94	311.89	25.61	363.92
			HSDPA	23.45	221.31	25.32	340.41

LTE Band 7

FCC Part 27								
Band	ANT	Frequency Range [MHz]	Bandwidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 7	A	2510.00 ~ 2560.00	20	QPSK	22.71	186.64	25.46	351.56
				16QAM	22.20	165.96	24.60	288.40
				64QAM	20.84	121.34		
				256QAM	18.11	64.71		
		2507.50 ~ 2562.50	15	QPSK	22.74	187.93	25.48	353.18
				16QAM	22.02	159.22	24.52	283.14
				64QAM	20.76	119.12		
				256QAM	18.22	66.37		
		2505.00 ~ 2565.00	10	QPSK	22.80	190.55	25.40	346.74
				16QAM	21.97	157.40	24.53	283.79
				64QAM	21.31	135.21		
				256QAM	17.89	61.52		
		2502.50 ~ 2567.50	5	QPSK	22.63	183.23	25.01	316.96
				16QAM	22.03	159.59	24.03	252.93
				64QAM	20.97	125.03		
				256QAM	17.77	59.84		

LTE Band 12

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 12	A	704.00 ~ 711.00	10	QPSK	24.15	260.02	19.97	99.31
				16QAM	23.44	220.80	18.65	73.28
				64QAM	22.40	173.78		
				256QAM	19.64	92.04		
		701.50 ~ 713.50	5	QPSK	24.23	264.85	19.74	94.19
				16QAM	23.69	233.88	18.56	71.78
				64QAM	22.44	175.39		
				256QAM	19.52	89.54		
		700.50 ~ 714.50	3	QPSK	24.05	254.10	19.66	92.47
				16QAM	23.44	220.80	18.47	70.31
				64QAM	22.51	178.24		
				256QAM	19.32	85.51		
		699.70 ~ 715.30	1.4	QPSK	24.03	252.93	19.34	85.90
				16QAM	23.34	215.77	18.45	69.98
				64QAM	22.40	173.78		
				256QAM	19.54	89.95		

LTE Band 13

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 13	A	782.00	10	QPSK	23.65	231.74	19.14	82.04
				16QAM	23.18	207.97	18.22	66.37
				64QAM	21.89	154.53		
				256QAM	18.94	78.34		
		779.50 ~ 784.50	5	QPSK	23.87	243.78	19.11	81.47
				16QAM	22.99	199.07	17.72	59.16
				64QAM	22.17	164.82		
				256QAM	19.23	83.75		

LTE Band 30

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 30	A	2310.00	10	QPSK	21.80	151.36	21.83	152.41
				16QAM	21.92	155.60	21.77	150.31
				64QAM	21.45	139.64		
				256QAM	18.49	70.63		
		2307.50 ~ 2312.50	5	QPSK	21.96	157.04	21.71	148.25
				16QAM	21.95	156.68	21.44	139.32
				64QAM	21.50	141.25		
				256QAM	18.47	70.31		

LTE Band 41 (PC2)

FCC Part 27								
Band	ANT	Frequency Range [MHz]	Bandwidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 41	A	2506.00 ~ 2680.00	20	QPSK	26.67	464.52	27.54	567.54
				16QAM	25.82	381.94	26.40	436.52
				64QAM	24.49	281.19		
				256QAM	21.91	155.24		
		2503.50 ~ 2682.50	15	QPSK	26.77	475.34	27.26	532.11
				16QAM	25.79	379.31	26.43	439.54
				64QAM	24.74	297.85		
				256QAM	21.91	155.24		
		2501.00 ~ 2685.00	10	QPSK	26.70	467.74	27.23	528.45
				16QAM	25.67	368.98	26.23	419.76
				64QAM	24.33	271.02		
				256QAM	21.82	152.05		
		2498.50 ~ 2687.50	5	QPSK	26.92	492.04	27.35	543.25
				16QAM	25.85	384.59	26.71	468.81
				64QAM	24.75	298.54		
				256QAM	21.90	154.88		

LTE Band 41C (UL CA)

FCC Part 27								
Band	ANT	Frequency Range [MHz]	Bandwidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
41C	A	2506.00 ~ 2680.00	40MHz (20MHz / 20MHz)	QPSK	22.79	190.11	23.99	250.61
				16QAM	21.74	149.28	23.47	222.33
		2503.50 ~ 2682.50	35MHz (15MHz / 20MHz)	QPSK	22.71	186.64		
				16QAM	21.66	146.55		
		2503.50 ~ 2682.50	30MHz (15MHz / 15MHz)	QPSK	22.63	183.23		
				16QAM	21.65	146.22		
		2498.50 ~ 2680.0	25MHz (5MHz / 20MHz)	QPSK	22.61	182.39		
				16QAM	21.63	145.55		

LTE Band 66

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 66	A	1720.00 ~ 1770.00	20	QPSK	23.94	247.74	24.75	298.54
				16QAM	23.19	208.45	23.92	246.60
				64QAM	22.43	174.98		
				256QAM	19.87	97.05		
		1717.50 ~ 1772.50	15	QPSK	24.12	258.23	24.42	276.69
				16QAM	23.44	220.80	23.51	224.39
				64QAM	22.52	178.65		
				256QAM	19.72	93.76		
		1715.00 ~ 1775.00	10	QPSK	24.13	258.82	25.02	317.69
				16QAM	23.57	227.51	23.85	242.66
				64QAM	22.54	179.47		
				256QAM	19.49	88.92		
		1712.50 ~ 1777.50	5	QPSK	23.85	242.66	24.67	293.09
				16QAM	23.28	212.81	23.98	250.03
				64QAM	22.44	175.39		
				256QAM	19.81	95.72		
		1711.50 ~ 1778.50	3	QPSK	23.79	239.33	25.01	316.96
				16QAM	23.57	227.51	24.37	273.53
				64QAM	22.83	191.87		
				256QAM	19.59	90.99		
		1710.70 ~ 1779.30	1.4	QPSK	23.82	240.99	24.99	315.50
				16QAM	23.27	212.32	24.29	268.53
				64QAM	22.62	182.81		
				256QAM	19.33	85.70		
Band 66	B	1720.00 ~ 1770.00	20	QPSK	24.53	283.79	19.14	82.04
				16QAM	23.89	244.91	18.22	66.37
				64QAM	22.97	198.15		
				256QAM	19.86	96.83		
		1717.50 ~ 1772.50	15	QPSK	24.40	275.42	19.12	81.66
				16QAM	23.74	236.59	18.49	70.63
				64QAM	22.85	192.75		
				256QAM	19.83	96.16		
		1715.00 ~ 1775.00	10	QPSK	24.41	276.06	19.07	80.72
				16QAM	23.95	248.31	18.26	66.99
				64QAM	22.76	188.80		
				256QAM	19.55	90.16		
		1712.50 ~ 1777.50	5	QPSK	24.34	271.64	19.07	80.72
				16QAM	23.61	229.61	18.31	67.76
				64QAM	22.57	180.72		
				256QAM	19.52	89.54		
		1711.50 ~ 1778.50	3	QPSK	24.38	274.16	18.98	79.07
				16QAM	23.43	220.29	18.50	70.79
				64QAM	22.67	184.93		
				256QAM	19.56	90.36		
		1710.70 ~ 1779.30	1.4	QPSK	24.43	277.33	19.07	80.72
				16QAM	23.90	245.47	18.31	67.76
				64QAM	22.65	184.08		
				256QAM	19.49	88.92		

LTE Band 71

FCC Part 27								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 71	A	673.00 ~ 688.00	20	QPSK	24.07	255.27	18.54	71.45
				16QAM	23.36	216.77	17.44	55.46
				64QAM	23.02	200.45		
				256QAM	19.56	90.36		
		670.50 ~ 690.50	15	QPSK	24.21	263.63	18.28	67.30
				16QAM	23.22	209.89	17.34	54.20
				64QAM	22.32	170.61		
				256QAM	19.51	89.33		
		668.00 ~ 693.00	10	QPSK	24.01	251.77	18.14	65.16
				16QAM	23.28	212.81	17.19	52.36
				64QAM	22.26	168.27		
				256QAM	19.39	86.90		
		665.50 ~ 695.50	5	QPSK	23.99	250.61	17.95	62.37
				16QAM	23.11	204.64	16.44	44.06
				64QAM	22.22	166.72		
				256QAM	19.40	87.10		

NR Band n30

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n30	A	2310.00	10	DFT-s OFDM	$\pi/2$ BPSK	20.98	125.31		
					QPSK	20.99	125.60	22.34	171.40
					16QAM	21.00	125.89	22.09	161.81
					64QAM	19.92	98.17		
				CP-OFDM	256QAM	17.91	61.80		
					QPSK	20.91	123.31		
					16QAM	20.13	103.04		
					64QAM	18.65	73.28		
					256QAM	15.22	33.27		
		2307.50 ~ 2312.50	5	DFT-s OFDM	$\pi/2$ BPSK	20.95	124.45		
					QPSK	20.55	113.50	22.42	174.58
					16QAM	20.49	111.94	22.33	171.00
					64QAM	19.36	86.30		
				CP-OFDM	256QAM	17.43	55.34		
					QPSK	20.42	110.15		

NR Band n41 (PC2)

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	A	2546.01 ~ 2640.00	100	DFT-s OFDM	$\pi/2$ BPSK	26.61	458.14		
					QPSK	26.70	467.74	29.23	837.53
					16QAM	25.70	371.54	28.33	680.77
					64QAM	24.32	270.40		
				CP-OFDM	256QAM	22.59	181.55		
					QPSK	25.24	334.20		
					16QAM	24.89	308.32		
					64QAM	23.30	213.80		
		2541.00 ~ 2644.98	90	DFT-s OFDM	256QAM	20.60	114.82		
					$\pi/2$ BPSK	26.60	457.09		
					QPSK	26.61	458.14	28.81	760.33
					16QAM	25.88	387.26	27.83	606.74
					64QAM	23.82	240.99		
				CP-OFDM	256QAM	22.24	167.49		
					QPSK	24.86	306.20		
		2536.02 ~ 2649.99	80	DFT-s OFDM	256QAM	20.60	114.82		
					$\pi/2$ BPSK	26.60	457.09		
					QPSK	26.64	461.32	28.61	726.11
					16QAM	25.49	354.00	27.54	567.54
				CP-OFDM	64QAM	24.11	257.63		
					256QAM	22.03	159.59		
		2531.02 ~ 2654.98	70	DFT-s OFDM	QPSK	25.02	317.69		
					$\pi/2$ BPSK	26.38	434.51		
					QPSK	26.22	418.79	28.86	769.13
					16QAM	25.77	377.57	28.04	636.80
				CP-OFDM	64QAM	23.38	217.77		
					256QAM	21.68	147.23		
		2526.00 ~ 2659.98	60	DFT-s OFDM	QPSK	24.49	281.19		
					$\pi/2$ BPSK	26.74	472.06		
					QPSK	26.64	461.32	29.16	824.14
					16QAM	26.31	427.56	28.22	663.74
				CP-OFDM	64QAM	23.62	230.14		
					256QAM	21.79	151.01		
		2521.01 ~ 2665.00	50	DFT-s OFDM	QPSK	24.79	301.30		
					$\pi/2$ BPSK	26.76	474.24		
					QPSK	26.54	450.82	28.81	760.33
					16QAM	25.87	386.37	27.87	612.35
				CP-OFDM	64QAM	23.37	217.27		
					256QAM	21.85	153.11		
		2516.01 ~ 2670.00	40	DFT-s OFDM	QPSK	24.46	279.25		
					$\pi/2$ BPSK	26.72	469.89		
					QPSK	26.86	485.29	28.86	769.13
					16QAM	26.13	410.20	28.03	635.33
				CP-OFDM	64QAM	23.46	221.82		
					256QAM	21.70	147.91		
		2511.00 ~ 2675.00	30	DFT-s OFDM	QPSK	24.67	293.09		
					$\pi/2$ BPSK	26.82	480.84		
					QPSK	26.55	451.86	28.55	716.14
					16QAM	25.72	373.25	27.85	609.54
				CP-OFDM	64QAM	23.50	223.87		
					256QAM	21.78	150.66		
		2506.02 ~ 2679.99	20	DFT-s OFDM	QPSK	24.68	293.76		
					$\pi/2$ BPSK	26.25	421.70		
					QPSK	26.54	450.82	28.81	760.33
					16QAM	26.17	414.00	27.90	616.60
				CP-OFDM	64QAM	23.64	231.21		
					256QAM	21.92	155.60		
		2503.50 ~ 2682.48	15	DFT-s OFDM	QPSK	24.71	295.80		
					$\pi/2$ BPSK	26.57	453.94		
					QPSK	26.49	445.66	28.46	701.46
					16QAM	25.72	373.25	27.81	603.95
				CP-OFDM	64QAM	23.77	238.23		
					256QAM	21.87	153.82		
		2501.01 ~ 2685.00	10	DFT-s OFDM	QPSK	24.82	303.39		
					$\pi/2$ BPSK	26.31	427.56		
					QPSK	26.17	414.00	28.58	721.11
					16QAM	25.48	353.18	27.76	597.04
				CP-OFDM	64QAM	23.50	223.87		
					256QAM	21.57	143.55		
					QPSK	24.47	279.90		

NR Band n66

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n66	A	1730.00 ~ 1760.00	40	DFT-s OFDM	$\pi/2$ BPSK	24.06	254.68		
					QPSK	23.94	247.74	25.43	349.14
					16QAM	23.23	210.38	24.29	268.53
					64QAM	21.59	144.21		
					256QAM	19.33	85.70		
				CP-OFDM	QPSK	22.83	191.87		
					16QAM	22.26	168.27		
					64QAM	20.68	116.95		
					256QAM	17.91	61.80		
		1725.00 ~ 1765.00	30	DFT-s OFDM	$\pi/2$ BPSK	24.16	260.62		
					QPSK	24.19	262.42	25.47	352.37
					16QAM	23.32	214.78	24.42	276.69
					64QAM	21.76	149.97		
					256QAM	19.78	95.06		
				CP-OFDM	QPSK	22.70	186.21		
		1722.50 ~ 1767.50	25	DFT-s OFDM	$\pi/2$ BPSK	24.22	264.24		
					QPSK	24.22	264.24	25.58	361.41
					16QAM	23.32	214.78	24.81	302.69
					64QAM	21.77	150.31		
					256QAM	19.78	95.06		
				CP-OFDM	QPSK	22.66	184.50		
		1720.00 ~ 1770.00	20	DFT-s OFDM	$\pi/2$ BPSK	24.23	264.85		
					QPSK	24.25	266.07	25.51	355.63
					16QAM	23.29	213.30	24.38	274.16
					64QAM	21.70	147.91		
					256QAM	19.76	94.62		
				CP-OFDM	QPSK	22.68	185.35		
		1717.50 ~ 1772.50	15	DFT-s OFDM	$\pi/2$ BPSK	24.23	264.85		
					QPSK	24.26	266.69	25.30	338.84
					16QAM	23.28	212.81	24.21	263.63
					64QAM	21.69	147.57		
					256QAM	19.77	94.84		
				CP-OFDM	QPSK	22.64	183.65		
		1715.00 ~ 1775.00	10	DFT-s OFDM	$\pi/2$ BPSK	24.22	264.24		
					QPSK	24.25	266.07	25.27	336.51
					16QAM	23.37	217.27	24.30	269.15
					64QAM	21.92	155.60		
					256QAM	19.90	97.72		
				CP-OFDM	QPSK	22.72	187.07		
		1712.50 ~ 1777.50	5	DFT-s OFDM	$\pi/2$ BPSK	24.12	258.23		
					QPSK	24.08	255.86	25.18	329.61
					16QAM	23.29	213.30	24.31	269.77
					64QAM	21.84	152.76		
					256QAM	19.73	93.97		
				CP-OFDM	QPSK	22.82	191.43		

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n66	B	1730.00 ~ 1760.00	40	DFT-s OFDM	$\pi/2$ BPSK	23.91	246.04		
					QPSK	23.93	247.17	18.64	73.11
					16QAM	22.94	196.79	17.42	55.21
					64QAM	21.42	138.68		
					256QAM	19.12	81.66		
				CP-OFDM	QPSK	22.31	170.22		
					16QAM	21.69	147.57		
					64QAM	19.86	96.83		
					256QAM	16.78	47.64		
		1725.00 ~ 1765.00	30	DFT-s OFDM	$\pi/2$ BPSK	23.42	219.79		
					QPSK	23.38	217.77	18.40	69.18
					16QAM	22.41	174.18	17.07	50.93
					64QAM	20.76	119.12		
					256QAM	18.93	78.16		
				CP-OFDM	QPSK	21.86	153.46		
					$\pi/2$ BPSK	23.44	220.80		
					QPSK	23.47	222.33	18.45	69.98
					16QAM	22.47	176.60	17.00	50.12
					64QAM	20.97	125.03		
					256QAM	18.89	77.45		
		1722.50 ~ 1767.50	25	DFT-s OFDM	QPSK	21.94	156.31		
					$\pi/2$ BPSK	23.52	224.91		
					QPSK	23.50	223.87	18.47	70.31
					16QAM	22.54	179.47	17.16	52.00
					64QAM	21.01	126.18		
					256QAM	18.89	77.45		
				CP-OFDM	QPSK	21.93	155.96		
					$\pi/2$ BPSK	23.41	219.28		
					QPSK	23.42	219.79	18.45	69.98
					16QAM	22.34	171.40	17.24	52.97
					64QAM	20.86	121.90		
					256QAM	18.83	76.38		
		1717.50 ~ 1772.50	15	DFT-s OFDM	QPSK	21.82	152.05		
					$\pi/2$ BPSK	23.34	215.77		
					QPSK	23.35	216.27	18.47	70.31
					16QAM	22.32	170.61	17.22	52.72
					64QAM	20.83	121.06		
					256QAM	18.89	77.45		
				CP-OFDM	QPSK	21.86	153.46		
					$\pi/2$ BPSK	23.25	211.35		
					QPSK	23.27	212.32	18.51	70.96
					16QAM	22.28	169.04	17.22	52.72
					64QAM	20.81	120.50		
					256QAM	18.83	76.38		
		1715.00 ~ 1775.00	10	DFT-s OFDM	QPSK	21.78	150.66		
					$\pi/2$ BPSK	23.25	211.35		
					QPSK	23.27	212.32	18.51	70.96
					16QAM	22.28	169.04	17.22	52.72
					64QAM	20.81	120.50		
					256QAM	18.83	76.38		
				CP-OFDM	QPSK	21.78	150.66		
					$\pi/2$ BPSK	23.25	211.35		
					QPSK	23.27	212.32	18.51	70.96
					16QAM	22.28	169.04	17.22	52.72
					64QAM	20.81	120.50		
					256QAM	18.83	76.38		
		1712.50 ~ 1777.50	5	DFT-s OFDM	QPSK	21.78	150.66		
					$\pi/2$ BPSK	23.25	211.35		
					QPSK	23.27	212.32	18.51	70.96
					16QAM	22.28	169.04	17.22	52.72
					64QAM	20.81	120.50		
					256QAM	18.83	76.38		
				CP-OFDM	QPSK	21.78	150.66		
					$\pi/2$ BPSK	23.25	211.35		
					QPSK	23.27	212.32	18.51	70.96
					16QAM	22.28	169.04	17.22	52.72

NR Band n70

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n70	A	1702.50	15	DFT-s OFDM	$\pi/2$ BPSK	24.05	254.10		
					QPSK	24.07	255.27	26.46	442.59
					16QAM	23.16	207.01	25.33	341.19
					64QAM	21.58	143.88		
				CP-OFDM	256QAM	19.47	88.51		
					QPSK	22.76	188.80		
					16QAM	22.41	174.18		
					64QAM	20.75	118.85		
		1700.00 -1705.00	10	DFT-s OFDM	256QAM	17.78	59.98		
					$\pi/2$ BPSK	24.30	269.15		
					QPSK	24.31	269.77	26.64	461.32
					16QAM	23.34	215.77	25.91	389.94
					64QAM	21.86	153.46		
				CP-OFDM	256QAM	19.80	95.50		
					QPSK	22.76	188.80		
		1697.50 - 1707.50	5	DFT-s OFDM	$\pi/2$ BPSK	24.33	271.02		
					QPSK	24.33	271.02	26.73	470.98
					16QAM	23.43	220.29	25.70	371.54
					64QAM	21.87	153.82		
				CP-OFDM	256QAM	19.83	96.16		
					QPSK	22.86	193.20		

NR Band n71

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n71	A	673.00 ~ 688.00	20	DFT-s OFDM	$\pi/2$ BPSK	24.55	285.10		
					QPSK	24.57	286.42	19.12	81.66
					16QAM	23.67	232.81	17.85	60.95
					64QAM	22.06	160.69		
				CP-OFDM	256QAM	19.94	98.63		
					QPSK	23.03	200.91		
					16QAM	21.38	137.40		
					64QAM	20.07	101.62		
		670.50 ~ 690.50	15	DFT-s OFDM	256QAM	16.66	46.34		
					$\pi/2$ BPSK	23.64	231.21		
					QPSK	23.65	231.74	19.04	80.17
					16QAM	22.64	183.65	18.07	64.12
					64QAM	21.06	127.64		
				CP-OFDM	256QAM	19.03	79.98		
					QPSK	22.11	162.55		
		668.00 ~ 693.00	10	DFT-s OFDM	$\pi/2$ BPSK	23.72	235.50		
					QPSK	23.73	236.05	19.40	87.10
					16QAM	22.93	196.34	18.41	69.34
					64QAM	21.14	130.02		
				CP-OFDM	256QAM	19.11	81.47		
					QPSK	22.16	164.44		
		665.50 ~ 695.50	5	DFT-s OFDM	$\pi/2$ BPSK	23.68	233.35		
					QPSK	23.67	232.81	19.90	97.72
					16QAM	22.74	187.93	18.49	70.63
					64QAM	21.23	132.74		
				CP-OFDM	256QAM	19.20	83.18		
					QPSK	22.24	167.49		

NR Band n77(PC2, 3450-3550 MHz)

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	E	3499.98	100	DFT-s OFDM	π/2 BPSK	27.49	561.05		
					QPSK	27.40	549.54	24.90	309.03
					16QAM	26.36	432.51	24.13	258.82
					64QAM	24.56	285.76		
					256QAM	22.73	187.50		
				CP-OFDM	QPSK	25.92	390.84		
					16QAM	25.42	348.34		
					64QAM	23.48	222.84		
					256QAM	20.40	109.65		
		3495.00 ~ 3504.99	90	DFT-s OFDM	π/2 BPSK	27.94	622.30		
					QPSK	27.92	619.44	25.16	328.10
					16QAM	26.98	498.88	24.20	263.03
					64QAM	24.75	298.54		
					256QAM	22.82	191.43		
				CP-OFDM	QPSK	25.90	389.05		
		3490.02 ~ 3510.00	80	DFT-s OFDM	π/2 BPSK	27.82	605.34		
					QPSK	27.92	619.44	25.30	338.84
					16QAM	26.93	493.17	24.37	273.53
					64QAM	24.75	298.54		
					256QAM	22.82	191.43		
				CP-OFDM	QPSK	25.96	394.46		
		3485.01 ~ 3514.98	70	DFT-s OFDM	π/2 BPSK	27.89	615.18		
					QPSK	27.89	615.18	25.35	342.77
					16QAM	27.00	501.19	24.38	274.16
					64QAM	24.72	296.48		
					256QAM	22.85	192.75		
				CP-OFDM	QPSK	25.95	393.55		
		3480.00 ~ 3519.99	60	DFT-s OFDM	π/2 BPSK	27.94	622.30		
					QPSK	27.97	626.61	25.15	327.34
					16QAM	26.95	495.45	24.14	259.42
					64QAM	24.81	302.69		
					256QAM	22.84	192.31		
				CP-OFDM	QPSK	25.77	377.57		
		3475.02 ~ 3525.00	50	DFT-s OFDM	π/2 BPSK	27.83	606.74		
					QPSK	27.92	619.44	25.22	332.66
					16QAM	26.97	497.74	24.39	274.79
					64QAM	25.11	324.34		
					256QAM	22.59	181.55		
				CP-OFDM	QPSK	25.97	395.37		
		3470.01 ~ 3529.98	40	DFT-s OFDM	π/2 BPSK	27.89	615.18		
					QPSK	27.97	626.61	25.33	341.19
					16QAM	26.81	479.73	24.55	285.10
					64QAM	25.02	317.69		
					256QAM	22.96	197.70		
				CP-OFDM	QPSK	26.08	405.51		
		3465.00 ~ 3535.02	30	DFT-s OFDM	π/2 BPSK	27.94	622.30		
					QPSK	27.97	626.61	25.47	352.37
					16QAM	26.60	457.09	24.52	283.14
					64QAM	24.97	314.05		
					256QAM	23.01	199.99		
				CP-OFDM	QPSK	26.15	412.10		
3462.51 ~ 3537.48	25	DFT-s OFDM	π/2 BPSK	27.60	575.44				
			QPSK	27.94	622.30	25.47	352.37		
			16QAM	26.64	461.32	24.61	289.07		
			64QAM	24.87	306.90				
			256QAM	22.90	194.98				
		CP-OFDM	QPSK	26.04	401.79				
3460.02 ~ 3540.00	20	DFT-s OFDM	π/2 BPSK	27.93	620.87				
			QPSK	27.75	595.66	25.45	350.75		
			16QAM	26.74	472.06	24.42	276.69		
			64QAM	24.68	293.76				
			256QAM	22.91	195.43				
		CP-OFDM	QPSK	25.98	396.28				
3457.50 ~ 3542.49	15	DFT-s OFDM	π/2 BPSK	27.82	605.34				
			QPSK	27.50	562.34	25.59	362.24		
			16QAM	26.67	464.52	24.77	299.92		
			64QAM	24.76	299.23				
			256QAM	22.93	196.34				
		CP-OFDM	QPSK	26.04	401.79				
3455.01 ~ 3549.99	10	DFT-s OFDM	π/2 BPSK	27.57	571.48				
			QPSK	27.57	571.48	25.52	356.45		
			16QAM	26.68	465.59	24.66	292.42		
			64QAM	24.98	314.77				
			256QAM	23.00	199.53				
		CP-OFDM	QPSK	26.06	403.65				

NR Band n77 (PC2, 3450-3550 MHz, SRS1, ANT G)

FCC Part 27							
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	G	3499.98	100	20.70	117.49		
		3495.00 ~ 3504.99	90	20.68	116.95		
		3490.02 ~ 3510.00	80	20.85	121.62		
		3485.01 ~ 3514.98	70	21.06	127.64		
		3480.00 ~ 3519.99	60	21.25	133.35		
		3475.02 ~ 3525.00	50	21.22	132.43		
		3470.01 ~ 3529.98	40	21.27	133.97		
		3465.00 ~ 3535.02	30	21.33	135.83		
		3462.51 ~ 3537.48	25	21.58	143.88	23.36	216.77
		3460.02 ~ 3540.00	20	21.43	139.00		
		3457.50 ~ 3542.49	15	21.24	133.05		
		3455.01 ~ 3549.99	10	21.18	131.22		

NR Band n77 (PC2, 3450-3550 MHz, SRS2, ANT D)

FCC Part 27							
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	D	3499.98	100	19.17	82.60		
		3495.00 ~ 3504.99	90	19.36	86.30		
		3490.02 ~ 3510.00	80	19.55	90.16		
		3485.01 ~ 3514.98	70	19.73	93.97		
		3480.00 ~ 3519.99	60	19.96	99.08		
		3475.02 ~ 3525.00	50	20.18	104.23		
		3470.01 ~ 3529.98	40	20.22	105.20		
		3465.00 ~ 3535.02	30	20.38	109.14		
		3462.51 ~ 3537.48	25	20.45	110.92	16.88	48.75
		3460.02 ~ 3540.00	20	20.41	109.90		
		3457.50 ~ 3542.49	15	20.38	109.14		
		3455.01 ~ 3549.99	10	19.81	95.72		

NR Band n77 (PC2, 3450-3550 MHz, SRS3, ANT F)

FCC Part 27							
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	F	3499.98	100	19.80	95.50		
		3495.00 ~ 3504.99	90	19.08	80.91		
		3490.02 ~ 3510.00	80	19.90	97.72		
		3485.01 ~ 3514.98	70	19.29	84.92		
		3480.00 ~ 3519.99	60	19.52	89.54		
		3475.02 ~ 3525.00	50	19.50	89.13		
		3470.01 ~ 3529.98	40	19.97	99.31		
		3465.00 ~ 3535.02	30	19.67	92.68		
		3462.51 ~ 3537.48	25	19.75	94.41		
		3460.02 ~ 3540.00	20	19.98	99.54	17.44	55.46
		3457.50 ~ 3542.49	15	19.81	95.72		
		3455.01 ~ 3549.99	10	19.58	90.78		

NR Band n77(PC2, 3700-3980 MHz)

FCC Part 27									
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
						Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	E	3750.00 ~ 3930.00	100	DFT-s OFDM	π/2 BPSK	27.78	599.79		
					QPSK	27.62	578.10	27.56	570.16
					16QAM	26.72	469.89	26.63	460.26
					64QAM	24.49	281.19		
					256QAM	22.62	182.81		
				CP-OFDM	QPSK	26.20	416.87		
					16QAM	25.98	396.28		
					64QAM	23.28	212.81		
					256QAM	20.38	109.14		
		3745.02 ~ 3934.98	90	DFT-s OFDM	π/2 BPSK	27.92	619.44		
					QPSK	27.84	608.14	27.85	609.54
					16QAM	26.94	494.31	26.99	500.03
					64QAM	25.42	348.34		
					256QAM	23.34	215.77		
				CP-OFDM	QPSK	26.49	445.66		
		3740.01 ~ 3939.99	80	DFT-s OFDM	π/2 BPSK	27.81	603.95		
					QPSK	27.93	620.87	27.82	605.34
					16QAM	26.72	469.89	27.14	517.61
					64QAM	25.31	339.63		
					256QAM	23.32	214.78		
				CP-OFDM	QPSK	26.42	438.53		
		3735.02 ~ 3944.98	70	DFT-s OFDM	π/2 BPSK	27.92	619.44		
					QPSK	27.99	629.51	27.54	567.54
					16QAM	26.95	495.45	26.78	476.43
					64QAM	25.42	348.34		
					256QAM	23.32	214.78		
				CP-OFDM	QPSK	26.38	434.51		
		3730.02 ~ 3949.98	60	DFT-s OFDM	π/2 BPSK	27.98	628.06		
					QPSK	27.91	618.02	27.92	619.44
					16QAM	26.82	480.84	27.03	504.66
					64QAM	25.15	327.34		
					256QAM	23.44	220.80		
				CP-OFDM	QPSK	26.06	403.65		
		3725.01 ~ 3954.99	50	DFT-s OFDM	π/2 BPSK	27.87	612.35		
					QPSK	27.85	609.54	27.76	597.04
					16QAM	26.99	500.03	26.86	485.29
					64QAM	25.25	334.97		
					256QAM	23.45	221.31		
				CP-OFDM	QPSK	26.08	405.51		
		3720.02 ~ 3960.0	40	DFT-s OFDM	π/2 BPSK	27.98	628.06		
					QPSK	27.82	605.34	27.84	608.14
					16QAM	26.83	481.95	27.08	510.50
					64QAM	24.99	315.50		
					256QAM	23.27	212.32		
				CP-OFDM	QPSK	26.14	411.15		
		3715.02 ~ 3964.98	30	DFT-s OFDM	π/2 BPSK	27.90	616.60		
					QPSK	27.98	628.06	27.88	613.76
					16QAM	26.88	487.53	26.90	489.78
					64QAM	25.40	346.74		
					256QAM	23.46	221.82		
				CP-OFDM	QPSK	26.44	440.55		
		3712.50 ~ 3967.50	25	DFT-s OFDM	π/2 BPSK	27.94	622.30		
					QPSK	27.93	620.87	28.15	653.13
					16QAM	26.76	474.24	27.24	529.66
					64QAM	24.44	277.97		
					256QAM	23.45	221.31		
				CP-OFDM	QPSK	26.13	410.20		
		3710.01 ~ 3969.99	20	DFT-s OFDM	π/2 BPSK	27.96	625.17		
					QPSK	27.66	583.45	28.14	651.63
					16QAM	26.80	478.63	27.27	533.33
					64QAM	25.36	343.56		
					256QAM	23.43	220.29		
				CP-OFDM	QPSK	26.22	418.79		
3707.52 ~ 3972.48	15	DFT-s OFDM	π/2 BPSK	27.96	625.17				
			QPSK	27.93	620.87	28.16	654.64		
			16QAM	26.85	484.17	27.15	518.80		
			64QAM	25.21	331.89				
			256QAM	23.46	221.82				
		CP-OFDM	QPSK	26.40	436.52				
3705.00 ~ 3975.00	10	DFT-s OFDM	π/2 BPSK	27.89	615.18				
			QPSK	27.83	606.74	28.25	668.34		
			16QAM	26.93	493.17	27.31	538.27		
			64QAM	25.18	329.61				
			256QAM	23.11	204.64				
		CP-OFDM	QPSK	26.23	419.76				

NR Band n77 (PC2, 3700-3980 MHz, SRS1, ANT G)

FCC Part 27							
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	G	3750.00 ~ 3930.00	100	21.06	127.64		
		3745.02 ~ 3934.98	90	21.10	128.82		
		3740.01 ~ 3939.99	80	21.16	130.62		
		3735.02 ~ 3944.98	70	21.28	134.28		
		3730.02 ~ 3949.98	60	21.40	138.04		
		3725.01 ~ 3954.99	50	21.35	136.46		
		3720.02 ~ 3960.00	40	21.60	144.54	19.27	84.53
		3715.02 ~ 3964.98	30	21.48	140.60		
		3712.50 ~ 3967.50	25	21.53	142.23		
		3710.01 ~ 3969.99	20	21.52	141.91		
		3707.52 ~ 3972.48	15	21.25	133.35		
		3705.00 ~ 3975.00	10	21.11	129.12		

NR Band n77 (PC2, 3700-3980 MHz, SRS2, ANT D)

FCC Part 27							
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	D	3750.00 ~ 3930.00	100	20.41	109.90		
		3745.02 ~ 3934.98	90	20.74	118.58		
		3740.01 ~ 3939.99	80	20.47	111.43		
		3735.02 ~ 3944.98	70	20.65	116.14		
		3730.02 ~ 3949.98	60	20.67	116.68		
		3725.01 ~ 3954.99	50	20.72	118.03		
		3720.02 ~ 3960.00	40	20.70	117.49		
		3715.02 ~ 3964.98	30	20.65	116.14		
		3712.50 ~ 3967.50	25	20.71	117.76		
		3710.01 ~ 3969.99	20	20.75	118.85		
		3707.52 ~ 3972.48	15	20.79	119.95	18.20	66.07
		3705.00 ~ 3975.00	10	20.73	118.30		

NR Band n77 (PC2, 3700-3980 MHz, SRS3, ANT F)

FCC Part 27							
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	F	3750.00 ~ 3930.00	100	19.35	86.10		
		3745.02 ~ 3934.98	90	19.49	88.92	18.84	76.56
		3740.01 ~ 3939.99	80	19.47	88.51		
		3735.02 ~ 3944.98	70	19.48	88.72		
		3730.02 ~ 3949.98	60	19.45	88.10		
		3725.01 ~ 3954.99	50	19.28	84.72		
		3720.02 ~ 3960.00	40	19.11	81.47		
		3715.02 ~ 3964.98	30	19.12	81.66		
		3712.50 ~ 3967.50	25	19.10	81.28		
		3710.01 ~ 3969.99	20	19.14	82.04		
		3707.52 ~ 3972.48	15	19.10	81.28		
		3705.00 ~ 3975.00	10	19.15	82.22		

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a internal antenna for the supported bands with a maximum peak gain as follow:

Frequency (MHz)	ANT	Peak Gain (dBi/dBd)
LTE Band 7 2500 - 2570 MHz	A	-1.68
LTE Band 12 699 - 716 MHz	A	-3.88
LTE Band 13 777 - 787 MHz	A	-3.80
LTE Band 30 / NR Band n30 2305 - 2315 MHz	A	-0.49
LTE Band 41 / NR Band n41 2496 - 2690 MHz	A	-1.43
WCDMA B4 / LTE Band 66 / NR Band n66 1710 - 1780 MHz	A	-1.47
	B	-8.20
NR Band n70 1698 - 1710 MHz	A	-1.77
LTE Bnad 71 / NR Band n71 663 - 698 MHz	A	-3.78
NR Band n77 3450 - 3550 MHz	E	-3.71
	G	-2.84
	D	-7.53
	F	-4.52
NR Band n77 3700 - 3980 MHz	E	-3.71
	G	-2.84
	D	-7.53
	F	-4.52

5.4. WORST-CASE ORIENTATION

Following Modes should be considered as worst-case scenario for all other measurements.

- UMTS REL 99/HSDPA
The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on REL 99 and HSDPA modulations. It was found REL 99 results were worst case.
- LTE Bands
The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM, 64QAM and 256QAM modulations. It was found QPSK and 16QAM results were worst case.
- As for the Antenna Switching supported Tx Path Switching during EN-DC Conditions

Band	Antenna Switching
LTE B66	Tx Path Switching

- It was tested for all rf ports and, 'Main ANT' conducted test power is the same or higher than 'Sub ANT', so we reported with 'Sub ANT'. (LTE B66)
So the test case is as below.

Band	Main ANT	Tune up Limit (dBm)	Sub ANT	Tune up Limit (dBm)
LTE B66	A	25.5	<u>B</u>	<u>25.5</u>

Test Item	Test case antenna & port
Conducted output power	All
RF port test	All (Worst case reported)
EIRP	All
Radiated Spurious Emissions	All

- NR Bands

The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations. It was found QPSK and 16QAM results were worst case.

This device supports NSA and SA Mode and Worst case reported.

So the test case is as below.

NR Band	NSA	SA
n30	-	<u>Stand Alone</u>
n41	B2, 12, 66	<u>Stand Alone</u>
n66 (ANT A)	B2, 5, 12, 13, 14, 48	<u>Stand Alone</u>
n66 (ANT B)	<u>B7</u> , 30	-
n71	B2, 48, <u>66</u>	Stand Alone
n77	B2, 5, 7, 12, 13, 14, 30, 48, 66, 71	<u>Stand Alone</u>

- As for the Antenna Switching supported Tx Path Switching during EN-DC Conditions

Band	Antenna Switching
NR n66	Tx Path Switching

- It was tested for all rf ports and, 'Main ANT' conducted test power is the same or higher than 'Sub ANT', so we reported with 'Main ANT'.(NR n66)

So the test case is as below.

Band	Main ANT	Tune up Limit (dBm)	Sub ANT	Tune up Limit (dBm)
NR n41(PC2)	<u>A</u>	<u>27.5</u>	SRS 1,2,3	-
NR n66	<u>A</u>	<u>25.5</u>	B	25.0
NR n77(PC2)	<u>E</u>	<u>27.0</u>	SRS 1,2,3	-

Test Item	Test case antenna & port
Conducted output power	All
RF port test	All (Worst case reported)
ERP, EIRP	All
Radiated Spurious Emissions	All

LTE Band 4

LTE Band 4 (Frequency range: 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz) due to overlapping frequency range, maximum tune-up limit and same channel bandwidth.

LTE Band 38

LTE Band 38 (Frequency range: 2570-2620 MHz) is covered by LTE Band 41(PC2, Frequency range: 2496-2690 MHz) due to overlapping frequency range, maximum tune-up limit and same channel bandwidth.

LTE Band 41 (PC3)

LTE Band 41 (PC3, Frequency range: 2496-2690 MHz) is covered by LTE Band 41(PC2, Frequency range: 2496-2690 MHz) due to overlapping frequency range, maximum tune-up limit and same channel bandwidth.

NR Band n41 (PC3)

NR Band n41 (PC3, Frequency range: 2496-2690 MHz) is covered by NR Band n41(PC2, Frequency range: 2496-2690 MHz) due to overlapping frequency range, maximum tune-up limit and same channel bandwidth.

NR Band n77 (PC3)

NR Band n77 (PC3, Frequency range: 3450-3550 MHz, 3700-3980 MHz) is covered by NR Band n77(PC2, Frequency range: 3450-3550 MHz, 3700-3980 MHz) due to overlapping frequency range, maximum tune-up limit and same channel bandwidth.

NR Band n78

NR Band n78 (Frequency range: 3450-3550 MHz, 3700-3800 MHz) is covered by NR Band n77(Frequency range: 3450-3550 MHz, 3700-3980 MHz) due to overlapping frequency range, maximum tune-up limit and same channel bandwidth.

● Conducted Spurious Emission

Highest conducted output power setting for each bands					
LTE Band	ANT	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
7	A	2505.00	10	1	25
		2535.00		1	0
		2565.00		1	0
12	A	701.50	5	1	12
		707.50		1	12
		713.50		1	0
13	A	779.50	5	1	12
		782.00		1	12
		784.50		1	12
30	A	2307.50	5	1	24
		2310.00		1	12
		2312.50		1	12
41 (PC2)	A	2498.50	5	1	24
		2593.00		1	0
		2687.50		1	12
66	B	1720.00	20	1	0
		1745.00		1	99
		1770.00		1	0
71	A	670.50	15	1	37
		680.50		1	74
		690.50		1	37
NR Band	ANT	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
30	A	2310.00	10	1	50
41 (PC2)	A	2516.01	40	1	104
		2592.99		1	53
		2670.00		1	1
66	A	1717.50	15	1	77
		1745.00		1	1
		1772.50		1	1
70	A	1697.50	5	1	1
		1702.50		1	1
		1707.50		1	23
71	A	673.00	20	1	53
		680.50		1	53
		688.00		1	1
77 (PC2) (3450 - 3550 MHz)	E	3480.00	60	1	81
		3499.98		1	81
		3519.99		1	81
77 (PC2) (3700 - 3980 MHz)	E	3735.00	70	1	95
		3840.00		1	95
		3945.00		1	187

Highest conducted output power setting for each bands						
LTE Band	ANT	Component Carrier	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41C	A	PCC	2506.00	20+20	1	99
		SCC	2525.80		1	0
		PCC	2583.10		1	99
		SCC	2602.90		1	0
		PCC	2660.20		1	99
		SCC	2680.00		1	0

● Radiated Spurious Emission

Highest ERP/ EIRP setting for each bands					
LTE Band	ANT	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
7	A	2507.50	15	1	0
		2535.00		1	0
		2562.50		1	0
12	A	704.00	10	1	0
		707.50		1	0
		711.00		1	0
13	A	782.00	10	1	0
30	A	2310.00	10	1	49
41 (PC2)	A	2506.00	20	1	49
		2593.00		1	49
		2680.00		1	49
66	A	1715.00	10	1	49
		1745.00		1	25
		1775.00		1	25
	B	1720.00	20	1	0
		1745.00		1	99
		1770.00		1	0
71	A	673.00	20	1	0
		680.50		1	0
		688.00		1	0
NR Band	ANT	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
30	A	2307.50	5	1	23
		2310.00		1	1
		2312.50		1	23
41 (PC2)	A	2546.01	100	1	271
		2592.99		1	137
		2640.00		1	1
66	A	1722.50	25	1	131
		1745.00		1	1
		1767.50		1	67
	B	1730.00	40	1	108
		1745.00		1	1
		1760.00		1	1
70	A	1697.50	5	1	1
		1702.50		1	1
		1707.50		1	23
71	A	665.50	5	1	23
		680.50		1	23
		695.50		1	1
77 (PC2) (3450 - 3550 MHz)	E	3457.50	15	1	36
		3499.98		1	19
		3542.49		1	1
77 (PC2) (3700 - 3980 MHz)	E	3705.00	10	1	22
		3840.00		1	1
		3975.00		1	12

Highest EIRP setting for each bands						
LTE Band	ANT	Component Carrier	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
41C	A	PCC	2506.00	20+20	1	99
		SCC	2525.80		1	0
		PCC	2583.10		1	99
		SCC	2602.90		1	0
		PCC	2660.20		1	99
		SCC	2680.00		1	0

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X, Y and Z, it was determined that below orientation was worst-case orientation for each band.

Band	ANT	ERP/EIRP			RSE		
		X	Y	Z	X	Y	Z
WCDMA B4	A	O	-	-	O	-	-
LTE B7	A	O	-	-	-	O	-
LTE B12	A	-	O	-	-	-	O
LTE B13	A	O	-	-	O	-	-
LTE B30	A	O	-	-	-	O	-
LTE B41 (PC2)	A	O	-	-	-	-	O
LTE B41C (UL CA)	A	O	-	-	-	-	O
LTE B66	A	O	-	-	O	-	-
	B	-	O	-	-	O	-
LTE B71	A	O	-	-	O	-	-
NR n30	A	O	-	-	-	O	-
NR n41 (PC2)	A	O	-	-	-	-	O
NR n66	A	O	-	-	-	O	-
	B	-	O	-	-	-	O
NR n70	A	O	-	-	O	-	-
NR n71	A	-	O	-	-	-	O
NR n77 (PC2) 3450 - 3550 MHz	E	O	-	-	-	O	-
	G (SRS1)	-	-	O	-	-	O
	D (SRS2)	O	-	-	-	O	-
	F (SRS3)	O	-	-	O	-	-
NR n77 (PC2) 3700 - 3980 MHz	E	-	O	-	-	-	O
	G (SRS1)	O	-	-	O	-	-
	D (SRS2)	-	O	-	-	O	-
	F (SRS3)	O	-	-	O	-	-

Note1 : For the radiated spurious testing, the EUT attached with travel adapter for the worst case condition. The EUT is continuously communicated with the call box during the tests.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37TC7A00JBDKA	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02115A	N/A

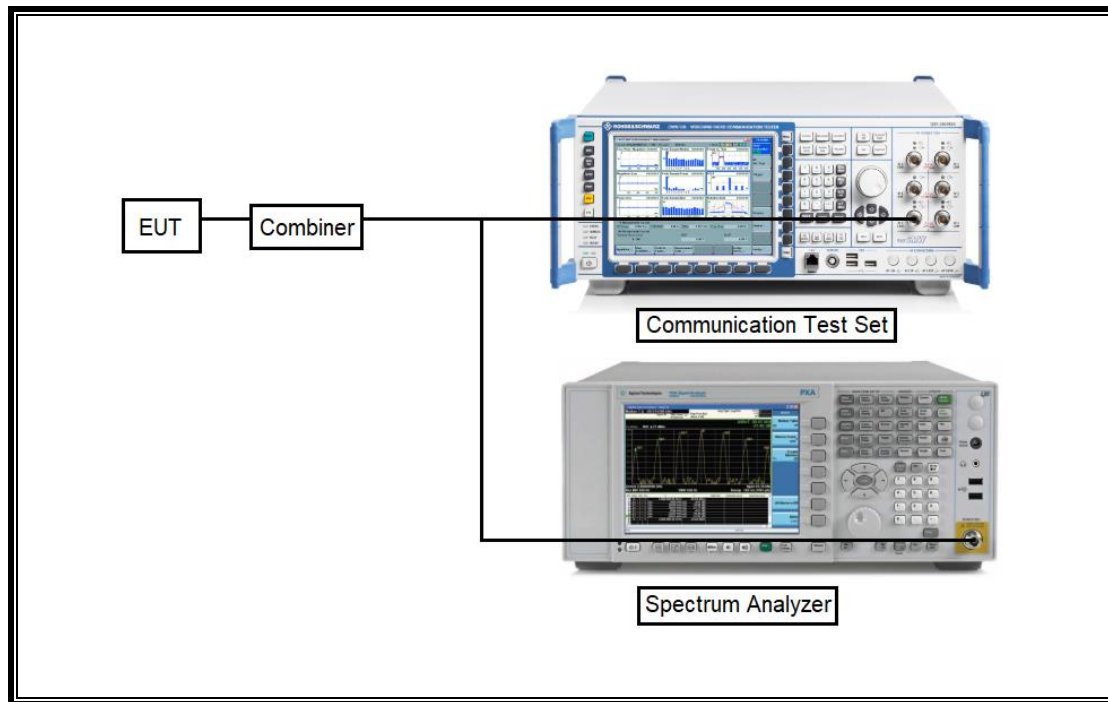
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

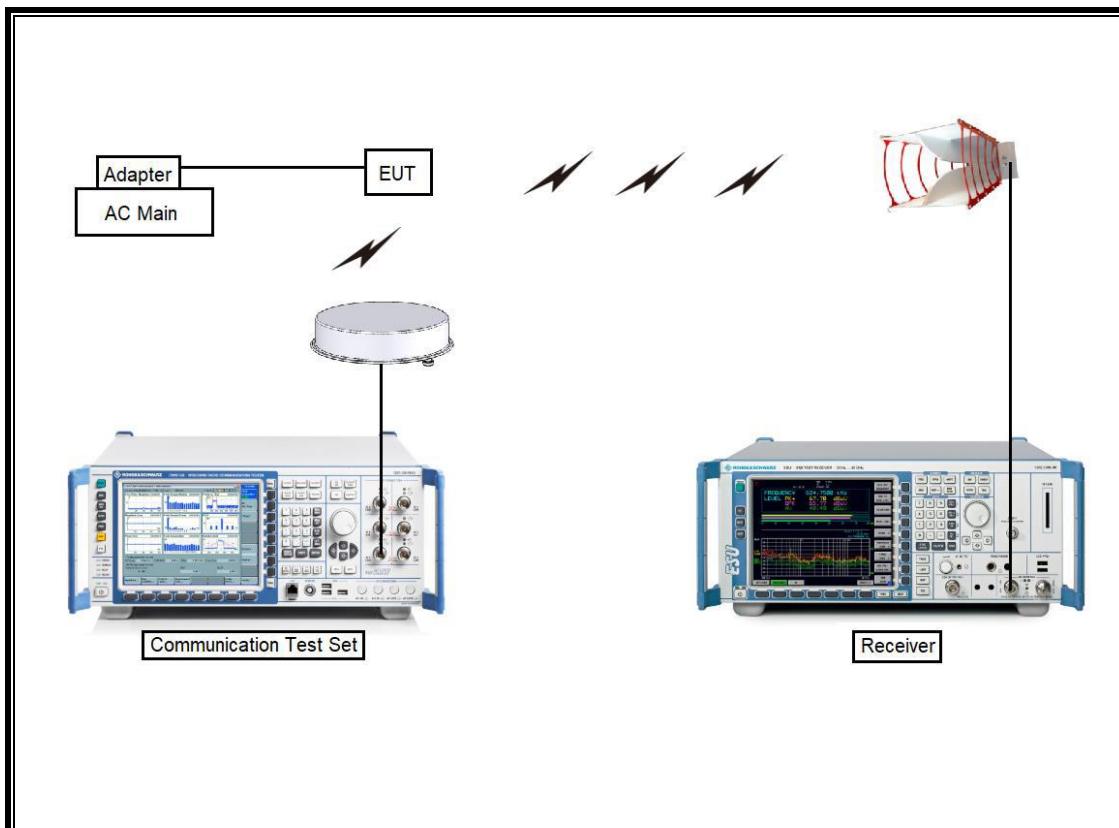
TEST SETUP

The EUT is continuously communicated with the call box during the tests.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121D DB-4	00164753	2025-01-17
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2026-07-23
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2025-10-06
Preamplifier	ETS	3116C-PA	00168841	2025-07-25
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	750	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	845	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	749	2026-08-12
Antenna, Horn, 18 GHz	ETS	3115	00167211	2026-07-17
Antenna, Horn, 18 GHz	ETS	3115	00161451	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168724	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168717	2026-07-17
Communications Test Set	R&S	CMW500	169797	2025-07-23
DC Power Supply	Agilent / HP	E3640A	MY54226395	2025-07-24
Preamplifier, 1000 MHz	Sonoma	310N	341282	2025-07-22
Preamplifier, 1000 MHz	Sonoma	310N	370599	2025-07-22
Preamplifier, 1000 MHz	Sonoma	310N	351741	2025-07-22
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2025-07-23
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-182020	28451	2025-07-22
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-181515	23576	2025-07-25
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2025-07-24
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2025-01-03
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY57143717	2025-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2025-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2025-07-22
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2025-07-23
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2025-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2025-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2025-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2025-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A009	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A001	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A008	2025-07-23
Attenuator	PASTERNAK	PE7004-10	2	2025-07-23
Attenuator	PASTERNAK	PE7395-10	A011	2025-07-25
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2025-09-07
Temperature Chamber	ESPEC	SH-642	93001109	2025-07-23
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2025-01-03
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2025-01-03
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510655	2025-01-03
UL Software				
Description	Manufacturer	Model	Version	
Antenna port test software	UL	CLT	Ver 3.4	
Radiated software	UL	UL EMC	Ver 9.5	
Antenna port test software (5G NR FR1)	UL	UL iM	Ver 1.06	

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Results
2.1046	Conducted Output Power	N/A	Conducted	Pass
2.1049	Occupied Bandwidth (99%)	N/A		Pass
27.53(c), 27.53(g), 27.53(h) 27.53(l)(2), 27.53(n)(2)	Conducted Band Edge / Conducted Spurious Emission	-13 dBm		Pass
27.53(m)		-25 dBm		Pass
27.53(a),(m)	Emission Mask	Section 8.4.2		Pass
27.54	Frequency Stability	2.5 ppm		Pass
27.50(b)(10), 27.50(c)(10)	Effective Radiated Power	34.77 dBm	Radiated	Pass
27.50(h)(2)	Effective Isotropic Radiated Power	33 dBm		Pass
27.50(a)(3)		24 dBm		Pass
27.50(d)(4)		30 dBm		Pass
27.53(c), 27.53(g) 27.53(h)	Radiated Spurious Emission	-13 dBm		Pass
27.53(f)		-40 dBm		Pass
27.53(m), 27.53(l)(2), 27.53(n)(2)		-25 dBm		Pass

8. CONDUCTED RESULTS

8.1. CONDUCTED OUTPUT POWER

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to either CMW500 Test Set or E7515B Test set and configured to operate at maximum power.

NOTE

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

RESULTS

See the following pages.

8.1.1. CONDUCTED AVERAGE OUTPUT POWER

WCDMA

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	24.94	N/A	25.0
		1413	1732.6	24.93		
		1513	1752.6	24.56		
HSDPA	Subtest 1	1312	1712.4	23.39	0	23.5
		1413	1732.6	23.45		
		1513	1752.6	23.32		
	Subtest 2	1312	1712.4	22.50	0	23.5
		1413	1732.6	22.82		
		1513	1752.6	22.30		
	Subtest 3	1312	1712.4	21.73	0.5	23.0
		1413	1732.6	21.81		
		1513	1752.6	21.30		
	Subtest 4	1312	1712.4	21.87	0.5	23.0
		1413	1732.6	21.82		
		1513	1752.6	21.33		
HSUPA	Subtest 1	1312	1712.4	22.57	0	23.5
		1413	1732.6	22.75		
		1513	1752.6	22.22		
	Subtest 2	1312	1712.4	21.02	2	21.5
		1413	1732.6	20.80		
		1513	1752.6	20.21		
	Subtest 3	1312	1712.4	21.81	1	22.5
		1413	1732.6	21.73		
		1513	1752.6	21.22		
	Subtest 4	1312	1712.4	20.99	2	21.5
		1413	1732.6	20.78		
		1513	1752.6	20.18		
	Subtest 5	1312	1712.4	23.20	0	23.5
		1413	1732.6	23.45		
		1513	1752.6	23.37		
DC-HSDPA	Subtest 1	1312	1712.4	23.40	0	23.5
		1413	1732.6	23.38		
		1513	1752.6	23.47		
	Subtest 2	1312	1712.4	22.48	0	23.5
		1413	1732.6	22.77		
		1513	1752.6	22.46		
	Subtest 3	1312	1712.4	22.77	0.5	23.0
		1413	1732.6	22.83		
		1513	1752.6	22.45		
	Subtest 4	1312	1712.4	22.87	0.5	23.0
		1413	1732.6	22.81		
		1513	1752.6	22.95		

LTE Band 7

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				20850	21100	21350		
				2510.00 MHz	2535.00 MHz	2560.00 MHz		
20 MHz	QPSK	1	0	21.60	22.46	22.71	0.0	24.0
		1	49	21.69	22.51	22.50	0.0	24.0
		1	99	21.87	22.57	22.41	0.0	24.0
		50	0	20.96	21.51	21.76	1.0	23.0
		50	24	20.90	21.57	21.69	1.0	23.0
		50	50	20.91	21.55	21.60	1.0	23.0
	16QAM	100	0	20.96	21.58	21.57	1.0	23.0
		1	0	20.94	21.04	21.94	1.0	23.0
		1	49	21.53	21.41	22.04	1.0	23.0
		1	99	21.54	22.03	22.20	1.0	23.0
		50	0	19.98	20.45	20.76	2.0	22.0
		50	24	20.05	20.60	20.70	2.0	22.0
	64QAM	50	50	19.90	20.60	20.64	2.0	22.0
		100	0	19.93	20.49	20.59	2.0	22.0
		1	0	20.49	20.84	20.75	2.0	22.0
		1	49	20.33	20.30	20.71	2.0	22.0
		1	99	19.73	20.17	19.91	2.0	22.0
		50	0	18.99	19.62	19.76	3.0	21.0
	256QAM	50	24	18.94	19.54	19.67	3.0	21.0
		50	50	18.95	19.55	19.49	3.0	21.0
		100	0	18.90	19.50	19.59	3.0	21.0
		1	0	16.97	17.72	17.74	5.0	19.0
		1	49	17.34	17.54	18.11	5.0	19.0
		1	99	17.27	17.61	17.90	5.0	19.0
15 MHz	QPSK	50	0	16.91	17.56	17.72	5.0	19.0
		50	24	16.89	17.51	17.61	5.0	19.0
		50	50	16.91	17.44	17.48	5.0	19.0
		100	0	16.91	17.53	17.61	5.0	19.0
	16QAM	1	0	21.84	22.52	22.74	0.0	24.0
		1	37	21.74	22.40	22.55	0.0	24.0
		1	74	21.77	22.49	22.35	0.0	24.0
		36	0	20.95	21.46	21.69	1.0	23.0
		36	20	20.88	21.53	21.65	1.0	23.0
		36	39	20.85	21.57	21.63	1.0	23.0
	64QAM	75	0	20.83	21.60	21.69	1.0	23.0
		1	0	20.89	22.02	21.80	1.0	23.0
		1	37	20.82	21.65	21.79	1.0	23.0
		1	74	21.23	21.68	21.35	1.0	23.0
		36	0	19.82	20.53	20.65	2.0	22.0
		36	20	19.83	20.51	20.64	2.0	22.0
	256QAM	36	39	19.76	20.50	20.55	2.0	22.0
		75	0	19.89	20.51	20.60	2.0	22.0
		1	0	20.09	20.51	20.56	2.0	22.0
		1	37	19.89	20.57	20.76	2.0	22.0
		1	74	19.57	20.53	20.16	2.0	22.0
		36	0	18.85	19.49	19.65	3.0	21.0
	64QAM	36	20	18.94	19.49	19.64	3.0	21.0
		36	39	18.89	19.52	19.57	3.0	21.0
		75	0	18.92	19.56	19.62	3.0	21.0
	256QAM	1	0	17.12	17.57	18.22	5.0	19.0
		1	37	17.33	17.57	17.65	5.0	19.0
		1	74	16.85	17.53	17.28	5.0	19.0
		36	0	16.98	17.53	17.76	5.0	19.0
		36	20	16.85	17.59	17.56	5.0	19.0
		36	39	16.87	17.50	17.54	5.0	19.0
		75	0	16.90	17.52	17.62	5.0	19.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20800	21100	21400		
				2505.00 MHz	2535.00 MHz	2565.00 MHz		
10 MHz	QPSK	1	0	21.57	22.56	22.80	0.0	24.0
		1	25	21.94	22.41	22.44	0.0	24.0
		1	49	21.90	22.53	22.42	0.0	24.0
		25	0	21.01	21.64	21.67	1.0	23.0
		25	12	20.94	21.58	21.67	1.0	23.0
		25	25	20.88	21.60	21.65	1.0	23.0
	16QAM	50	0	21.02	21.61	21.72	1.0	23.0
		1	0	21.38	21.33	21.62	1.0	23.0
		1	25	20.97	21.97	21.42	1.0	23.0
		1	49	20.86	21.21	21.48	1.0	23.0
		25	0	19.91	20.64	20.71	2.0	22.0
		25	12	19.91	20.60	20.72	2.0	22.0
	64QAM	25	25	19.94	20.57	20.53	2.0	22.0
		50	0	19.97	20.62	20.63	2.0	22.0
		1	0	20.39	20.56	21.31	2.0	22.0
		1	25	19.96	20.39	20.42	2.0	22.0
		1	49	20.37	20.91	21.07	2.0	22.0
		25	0	18.99	19.54	19.81	3.0	21.0
	256QAM	25	12	18.99	19.59	19.75	3.0	21.0
		25	25	18.94	19.47	19.63	3.0	21.0
		50	0	18.96	19.62	19.65	3.0	21.0
		1	0	17.14	17.29	17.89	5.0	19.0
		1	25	16.92	17.18	17.29	5.0	19.0
		1	49	16.99	17.40	17.15	5.0	19.0
5 MHz	QPSK	25	0	17.01	17.51	17.76	5.0	19.0
		25	12	16.99	17.55	17.73	5.0	19.0
		25	25	16.89	17.58	17.56	5.0	19.0
		50	0	16.91	17.56	17.68	5.0	19.0
	16QAM	1	0	21.81	22.43	22.63	0.0	24.0
		1	12	21.75	22.37	22.55	0.0	24.0
		1	24	21.80	22.50	22.42	0.0	24.0
		12	0	20.88	21.55	21.58	1.0	23.0
		12	7	20.95	21.51	21.57	1.0	23.0
		12	13	20.92	21.52	21.50	1.0	23.0
	64QAM	25	0	20.90	21.60	21.63	1.0	23.0
		1	0	21.35	22.03	21.64	1.0	23.0
		1	12	21.18	21.68	21.54	1.0	23.0
		1	24	21.25	21.52	21.67	1.0	23.0
		12	0	19.85	20.57	20.60	2.0	22.0
		12	7	19.98	20.46	20.65	2.0	22.0
	256QAM	12	13	19.91	20.51	20.50	2.0	22.0
		25	0	19.95	20.45	20.66	2.0	22.0
		1	0	20.14	20.71	20.97	2.0	22.0
		1	12	20.14	20.54	20.88	2.0	22.0
		1	24	20.02	20.52	20.40	2.0	22.0
		12	0	19.03	19.51	19.60	3.0	21.0
	QPSK	12	7	19.00	19.61	19.61	3.0	21.0
		12	13	18.87	19.50	19.51	3.0	21.0
		25	0	18.89	19.48	19.60	3.0	21.0
		1	0	17.20	17.42	17.73	5.0	19.0
		1	12	17.10	17.72	17.62	5.0	19.0
		1	24	17.10	17.75	17.77	5.0	19.0
	16QAM	12	0	16.95	17.51	17.60	5.0	19.0
		12	7	16.92	17.57	17.61	5.0	19.0
		12	13	16.98	17.46	17.59	5.0	19.0
		25	0	16.94	17.53	17.48	5.0	19.0
	64QAM	1	0	20.14	20.71	20.97	2.0	22.0
		1	12	20.14	20.54	20.88	2.0	22.0
		1	24	20.02	20.52	20.40	2.0	22.0
		12	0	19.03	19.51	19.60	3.0	21.0
		12	7	19.00	19.61	19.61	3.0	21.0
		12	13	18.87	19.50	19.51	3.0	21.0
	256QAM	25	0	18.89	19.48	19.60	3.0	21.0
		1	0	17.20	17.42	17.73	5.0	19.0
		1	12	17.10	17.72	17.62	5.0	19.0
		1	24	17.10	17.75	17.77	5.0	19.0
		12	0	16.95	17.51	17.60	5.0	19.0
		12	7	16.92	17.57	17.61	5.0	19.0

LTE Band 12

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				23060	23095	23130		
				704.00 MHz	707.50 MHz	711.00 MHz		
10 MHz	QPSK	1	0	23.99	24.15	24.11	0.0	25.5
		1	25	23.80	24.02	24.03	0.0	25.5
		1	49	23.88	23.93	23.94	0.0	25.5
		25	0	23.14	23.19	23.17	1.0	24.5
		25	12	23.09	23.10	23.09	1.0	24.5
		25	25	23.09	23.07	23.07	1.0	24.5
	16QAM	50	0	23.17	23.12	23.23	1.0	24.5
		1	0	23.44	23.26	23.14	1.0	24.5
		1	25	23.14	23.39	23.23	1.0	24.5
		1	49	23.17	23.08	23.17	1.0	24.5
		25	0	22.20	22.02	22.16	2.0	23.5
		25	12	22.14	22.14	22.15	2.0	23.5
	64QAM	25	25	21.99	22.09	22.05	2.0	23.5
		50	0	22.20	22.13	22.06	2.0	23.5
		1	0	22.04	22.40	22.13	2.0	23.5
		1	25	22.20	21.82	22.15	2.0	23.5
		1	49	21.86	22.06	21.96	2.0	23.5
		25	0	21.07	21.15	21.17	3.0	22.5
	256QAM	25	12	21.19	21.21	21.10	3.0	22.5
		25	25	21.05	21.08	21.01	3.0	22.5
		50	0	21.05	21.15	21.12	3.0	22.5
		1	0	19.64	19.14	19.58	5.0	20.5
		1	25	19.13	19.08	18.75	5.0	20.5
		1	49	18.94	19.09	19.28	5.0	20.5
5 MHz	QPSK	25	0	19.06	19.08	19.08	5.0	20.5
		25	12	19.07	19.18	19.10	5.0	20.5
		25	25	19.01	19.10	19.06	5.0	20.5
		50	0	19.10	19.09	19.18	5.0	20.5
	16QAM	1	0	24.06	24.11	24.01	0.0	25.5
		1	12	24.12	24.23	23.99	0.0	25.5
		1	24	23.92	24.01	23.89	0.0	25.5
		12	0	23.04	23.09	24.01	1.0	24.5
		12	7	22.98	23.05	24.04	1.0	24.5
		12	13	23.02	23.01	23.14	1.0	24.5
	64QAM	25	0	23.02	23.09	23.22	1.0	24.5
		1	0	23.03	23.08	22.87	1.0	24.5
		1	12	23.11	23.69	23.30	1.0	24.5
		1	24	23.15	23.15	23.10	1.0	24.5
		12	0	22.11	22.05	21.97	2.0	23.5
		12	7	22.12	22.03	22.14	2.0	23.5
	256QAM	12	13	22.00	22.20	22.18	2.0	23.5
		25	0	21.94	21.95	22.13	2.0	23.5
		1	0	22.06	22.08	22.33	2.0	23.5
		1	12	22.08	22.41	22.04	2.0	23.5
		1	24	21.94	21.95	22.44	2.0	23.5
		12	0	21.05	21.14	21.08	3.0	22.5
	16QAM	12	7	20.87	21.05	21.06	3.0	22.5
		12	13	21.03	20.98	21.06	3.0	22.5
		25	0	21.00	21.18	21.16	3.0	22.5
	256QAM	1	0	19.36	19.24	18.98	5.0	20.5
		1	12	19.45	19.12	18.97	5.0	20.5
		1	24	19.52	19.36	19.41	5.0	20.5
	64QAM	12	0	19.07	19.13	19.16	5.0	20.5
		12	7	18.86	19.06	19.16	5.0	20.5
		12	13	18.98	19.07	19.06	5.0	20.5
		25	0	19.06	18.99	19.14	5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23025	23095	23165		
				700.50 MHz	707.50 MHz	714.50 MHz		
3 MHz	QPSK	1	0	23.93	24.04	24.01	0.0	25.5
		1	8	23.91	23.89	24.05	0.0	25.5
		1	14	23.88	24.01	23.92	0.0	25.5
		8	0	22.99	23.03	23.09	1.0	24.5
		8	4	22.94	22.99	22.99	1.0	24.5
		8	7	23.00	22.99	23.09	1.0	24.5
	16QAM	15	0	22.96	22.95	23.15	1.0	24.5
		1	0	22.65	23.05	23.44	1.0	24.5
		1	8	23.02	22.83	22.98	1.0	24.5
		1	14	23.06	23.31	22.84	1.0	24.5
		8	0	22.04	22.07	22.10	2.0	23.5
		8	4	21.99	21.94	22.12	2.0	23.5
	64QAM	8	7	22.10	21.94	22.25	2.0	23.5
		15	0	22.06	22.05	22.12	2.0	23.5
		1	0	22.06	22.44	21.85	2.0	23.5
		1	8	21.98	22.51	22.24	2.0	23.5
		1	14	22.14	22.02	22.02	2.0	23.5
		8	0	20.97	21.16	21.13	3.0	22.5
	256QAM	8	4	21.01	20.99	21.25	3.0	22.5
		8	7	21.00	21.00	21.09	3.0	22.5
		15	0	20.99	21.06	21.13	3.0	22.5
		1	0	19.04	18.99	18.95	5.0	20.5
		1	8	19.14	18.79	19.19	5.0	20.5
		1	14	18.89	18.87	19.32	5.0	20.5
1.4 MHz	QPSK	8	0	18.90	18.91	19.22	5.0	20.5
		8	4	18.90	18.91	19.20	5.0	20.5
		8	7	18.90	19.06	19.12	5.0	20.5
		15	0	19.01	19.08	19.01	5.0	20.5
	16QAM	1	0	23.88	23.99	23.89	0.0	25.5
		1	3	23.86	23.79	23.93	0.0	25.5
		1	5	23.83	23.87	23.89	0.0	25.5
		3	0	23.94	23.94	23.79	0.0	25.5
		3	1	23.87	23.99	23.99	0.0	25.5
		3	3	23.90	23.92	24.03	0.0	25.5
	64QAM	6	0	22.94	23.02	22.98	1.0	24.5
		1	0	23.03	23.28	23.13	1.0	24.5
		1	3	22.44	23.34	23.22	1.0	24.5
		1	5	22.95	22.99	23.08	1.0	24.5
		3	0	23.04	23.09	22.88	1.0	24.5
		3	1	23.05	23.19	23.06	1.0	24.5
	256QAM	3	3	22.89	23.06	22.98	1.0	24.5
		6	0	22.11	21.93	22.12	2.0	23.5
		1	0	22.11	22.39	22.09	2.0	23.5
		1	3	21.85	22.20	22.34	2.0	23.5
		1	5	22.03	21.93	22.40	2.0	23.5
		3	0	22.19	21.99	22.13	2.0	23.5
	16QAM	3	1	21.64	21.99	22.19	2.0	23.5
		3	3	21.75	22.05	22.07	2.0	23.5
		6	0	20.86	21.12	21.10	3.0	22.5
	256QAM	1	0	19.17	19.01	19.54	5.0	20.5
		1	3	18.99	18.95	19.31	5.0	20.5
		1	5	18.97	19.10	19.54	5.0	20.5
	64QAM	3	0	19.05	19.00	19.05	5.0	20.5
		3	1	18.95	19.15	19.04	5.0	20.5
		3	3	19.25	19.01	19.12	5.0	20.5
	256QAM	6	0	19.00	19.05	19.20	5.0	20.5
		1	0	23.88	23.99	23.89	0.0	25.5
		1	3	23.86	23.79	23.93	0.0	25.5
		1	5	23.83	23.87	23.89	0.0	25.5
		3	0	23.94	23.94	23.79	0.0	25.5
		3	1	23.87	23.99	23.99	0.0	25.5
		3	3	23.90	23.92	24.03	0.0	25.5
		6	0	22.94	23.02	22.98	1.0	24.5
		1	0	23.03	23.28	23.13	1.0	24.5
		1	3	22.44	23.34	23.22	1.0	24.5
		1	5	22.95	22.99	23.08	1.0	24.5
		3	0	23.04	23.09	22.88	1.0	24.5
		3	1	23.05	23.19	23.06	1.0	24.5
		3	3	22.89	23.06	22.98	1.0	24.5
		6	0	22.11	21.93	22.12	2.0	23.5
		1	0	22.11	22.39	22.09	2.0	23.5
		1	3	21.85	22.20	22.34	2.0	23.5
		1	5	22.03	21.93	22.40	2.0	23.5
		3	0	22.19	21.99	22.13	2.0	23.5
		3	1	21.64	21.99	22.19	2.0	23.5
		3	3	21.75	22.05	22.07	2.0	23.5
		6	0	20.86	21.12	21.10	3.0	22.5
		1	0	19.17	19.01	19.54	5.0	20.5
		1	3	18.99	18.95	19.31	5.0	20.5
		1	5	18.97	19.10	19.54	5.0	20.5
		3	0	19.05	19.00	19.05	5.0	20.5
		3	1	18.95	19.15	19.04	5.0	20.5
		3	3	19.25	19.01	19.12	5.0	20.5
		6	0	19.00	19.05	19.20	5.0	20.5

LTE Band 13

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
					23230			
					782.00 MHz			
10 MHz	QPSK	1	0		23.65		0.0	25.0
		1	25		23.64		0.0	25.0
		1	49		23.49		0.0	25.0
		25	0		22.88		1.0	24.0
		25	12		22.81		1.0	24.0
		25	25		22.76		1.0	24.0
	16QAM	50	0		22.79		1.0	24.0
		1	0		23.18		1.0	24.0
		1	25		21.97		1.0	24.0
		1	49		22.72		1.0	24.0
		25	0		21.72		2.0	23.0
		25	12		21.72		2.0	23.0
	64QAM	25	25		21.63		2.0	23.0
		50	0		21.76		2.0	23.0
		1	0		21.73		2.0	23.0
		1	25		21.54		2.0	23.0
		1	49		21.89		2.0	23.0
		25	0		20.85		3.0	22.0
	256QAM	25	12		20.69		3.0	22.0
		25	25		20.80		3.0	22.0
		50	0		20.82		3.0	22.0
		1	0		18.94		5.0	20.0
		1	25		18.74		5.0	20.0
		1	49		18.59		5.0	20.0
5 MHz	QPSK	25	0		18.82		5.0	20.0
		25	12		18.71		5.0	20.0
		25	25		18.66		5.0	20.0
		50	0		18.67		5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23205	23230	23255		
				779.50 MHz	782.00 MHz	784.50 MHz		
5 MHz	QPSK	1	0	23.69	23.67	23.67	0.0	25.0
		1	12	23.87	23.73	23.75	0.0	25.0
		1	24	23.63	23.57	23.58	0.0	25.0
		12	0	22.74	22.73	22.62	1.0	24.0
		12	7	22.75	22.68	22.59	1.0	24.0
		12	13	22.72	22.64	22.64	1.0	24.0
	16QAM	25	0	22.80	22.77	22.62	1.0	24.0
		1	0	22.47	22.80	22.84	1.0	24.0
		1	12	22.78	22.65	22.71	1.0	24.0
		1	24	22.65	22.99	22.86	1.0	24.0
		12	0	21.71	21.73	21.60	2.0	23.0
		12	7	21.64	21.70	21.71	2.0	23.0
	64QAM	12	13	21.88	21.76	21.57	2.0	23.0
		25	0	21.73	21.71	21.78	2.0	23.0
		1	0	21.87	21.77	21.70	2.0	23.0
		1	12	21.80	22.17	21.22	2.0	23.0
		1	24	21.89	21.95	21.84	2.0	23.0
		12	0	20.64	20.79	20.65	3.0	22.0
	256QAM	12	7	20.65	20.75	20.73	3.0	22.0
		12	13	20.71	20.74	20.55	3.0	22.0
		25	0	20.85	20.72	20.70	3.0	22.0
		1	0	18.80	19.22	18.89	5.0	20.0
		1	12	18.76	19.23	18.72	5.0	20.0
		1	24	19.01	18.57	18.84	5.0	20.0
	256QAM	12	0	18.68	18.76	18.76	5.0	20.0
		12	7	18.75	18.76	18.64	5.0	20.0
		12	13	18.75	18.75	18.68	5.0	20.0
		25	0	18.74	18.68	18.62	5.0	20.0

LTE Band 30

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
					27710			
				2307.50 MHz	2310.00 MHz	2312.50 MHz		
10 MHz	QPSK	1	0		21.64		0.0	22.5
		1	25		21.55		0.0	22.5
		1	49		21.67		0.0	22.5
		25	0		21.72		1.0	21.5
		25	12		21.74		1.0	21.5
		25	25		21.75		1.0	21.5
	16QAM	50	0		21.80		1.0	21.5
		1	0		21.81		1.0	21.5
		1	25		21.74		1.0	21.5
		1	49		21.92		1.0	21.5
		25	0		21.33		2.0	20.5
		25	12		21.17		2.0	20.5
	64QAM	25	25		21.22		2.0	20.5
		50	0		21.19		2.0	20.5
		1	0		21.42		2.0	20.5
		1	25		21.45		2.0	20.5
		1	49		21.28		2.0	20.5
		25	0		20.21		3.0	19.5
	256QAM	25	12		20.19		3.0	19.5
		25	25		20.12		3.0	19.5
		50	0		20.14		3.0	19.5
		1	0		18.48		5.0	17.5
		1	25		18.49		5.0	17.5
		1	49		18.27		5.0	17.5
5 MHz	QPSK	25	0		18.37		5.0	17.5
		25	12		18.20		5.0	17.5
		25	25		18.25		5.0	17.5
		50	0		18.28		5.0	17.5
	16QAM							
	64QAM							
	256QAM							

LTE Band 41 (PC2)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				39750	40620	41490		
				2506.00 MHz	2593.00 MHz	2680.00 MHz		
20 MHz	QPSK	1	0	25.81	26.59	25.78	0.0	27.5
		1	49	25.84	26.56	25.53	0.0	27.5
		1	99	25.42	26.67	25.04	0.0	27.5
		50	0	24.46	25.50	24.84	1.0	26.5
		50	24	24.50	25.46	24.85	1.0	26.5
		50	50	24.43	25.57	24.89	1.0	26.5
	16QAM	100	0	24.45	25.51	24.87	1.0	26.5
		1	0	24.97	25.72	25.15	1.0	26.5
		1	49	24.86	25.82	24.94	1.0	26.5
		1	99	24.85	25.78	24.97	1.0	26.5
		50	0	23.57	24.53	23.73	2.0	25.5
		50	24	23.48	24.56	23.76	2.0	25.5
	64QAM	50	50	23.44	24.53	23.75	2.0	25.5
		100	0	23.52	24.50	23.78	2.0	25.5
		1	0	23.75	24.37	24.03	2.0	25.5
		1	49	23.70	24.49	24.08	2.0	25.5
		1	99	23.93	24.34	24.05	2.0	25.5
		50	0	22.52	23.47	22.75	3.0	24.5
	256QAM	50	24	22.50	23.52	22.78	3.0	24.5
		50	50	22.44	23.46	22.78	3.0	24.5
		100	0	22.59	23.53	22.74	3.0	24.5
		1	0	20.90	21.91	21.08	5.0	22.5
		1	49	21.00	21.61	20.98	5.0	22.5
		1	99	20.77	21.80	21.10	5.0	22.5
15 MHz	QPSK	50	0	20.51	21.49	20.72	5.0	22.5
		50	24	20.56	21.51	20.68	5.0	22.5
		50	50	20.43	21.50	20.75	5.0	22.5
		100	0	20.45	21.47	20.74	5.0	22.5
	16QAM	1	0	25.31	26.66	25.87	0.0	27.5
		1	37	25.94	26.77	25.86	0.0	27.5
		1	74	25.61	26.46	25.90	0.0	27.5
		36	0	24.68	25.69	24.98	1.0	26.5
		36	20	24.66	25.69	24.95	1.0	26.5
		36	39	24.57	25.66	24.97	1.0	26.5
	64QAM	75	0	24.77	25.64	24.96	1.0	26.5
		1	0	24.91	25.77	25.09	1.0	26.5
		1	37	25.04	25.38	25.22	1.0	26.5
		1	74	24.77	25.79	24.74	1.0	26.5
		36	0	23.67	24.55	23.86	2.0	25.5
		36	20	23.63	24.56	23.83	2.0	25.5
	256QAM	36	39	23.58	24.56	23.82	2.0	25.5
		75	0	23.56	24.56	23.80	2.0	25.5
		1	0	23.23	24.64	24.04	2.0	25.5
		1	37	23.51	24.74	24.35	2.0	25.5
		1	74	23.19	24.63	23.98	2.0	25.5
		36	0	22.56	23.56	22.80	3.0	24.5
	16QAM	36	20	22.57	23.52	22.80	3.0	24.5
		36	39	22.49	23.51	22.88	3.0	24.5
		75	0	22.51	23.54	22.82	3.0	24.5
		1	0	20.54	21.67	20.97	5.0	22.5
		1	37	20.75	21.91	21.43	5.0	22.5
		1	74	20.72	21.61	21.07	5.0	22.5
	64QAM	36	0	20.61	21.57	20.69	5.0	22.5
		36	20	20.61	21.61	20.76	5.0	22.5
		36	39	20.52	21.64	20.72	5.0	22.5
		75	0	20.58	21.63	20.69	5.0	22.5
	256QAM	1	0	20.54	21.67	20.97	5.0	22.5
		1	37	20.75	21.91	21.43	5.0	22.5
		1	74	20.72	21.61	21.07	5.0	22.5
		36	0	20.61	21.57	20.69	5.0	22.5
		36	20	20.61	21.61	20.76	5.0	22.5
		36	39	20.52	21.64	20.72	5.0	22.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				39700	40620	41540		
				2501.00 MHz	2593.00 MHz	2685.00 MHz		
10 MHz	QPSK	1	0	25.64	26.65	25.96	0.0	27.5
		1	25	25.55	26.64	25.95	0.0	27.5
		1	49	25.62	26.70	25.32	0.0	27.5
		25	0	24.60	25.61	24.89	1.0	26.5
		25	12	24.59	25.57	24.89	1.0	26.5
		25	25	24.56	25.58	24.89	1.0	26.5
	16QAM	50	0	24.55	25.60	24.87	1.0	26.5
		1	0	24.86	25.64	24.68	1.0	26.5
		1	25	24.83	25.60	24.95	1.0	26.5
		1	49	24.77	25.67	24.93	1.0	26.5
		25	0	23.55	24.56	23.84	2.0	25.5
		25	12	23.51	24.53	23.82	2.0	25.5
	64QAM	25	25	23.48	24.55	23.79	2.0	25.5
		50	0	23.51	24.53	23.76	2.0	25.5
		1	0	23.31	24.33	23.90	2.0	25.5
		1	25	23.34	24.24	23.92	2.0	25.5
		1	49	23.40	24.30	23.87	2.0	25.5
		25	0	22.56	23.41	22.72	3.0	24.5
	256QAM	25	12	22.52	23.36	22.70	3.0	24.5
		25	25	22.51	23.41	22.75	3.0	24.5
		50	0	22.46	23.50	22.71	3.0	24.5
		1	0	20.64	21.82	20.59	5.0	22.5
		1	25	20.67	21.69	20.59	5.0	22.5
		1	49	20.55	21.78	20.60	5.0	22.5
5 MHz	QPSK	25	0	20.50	21.58	20.76	5.0	22.5
		25	12	20.45	21.55	20.74	5.0	22.5
		25	25	20.48	21.55	20.75	5.0	22.5
		50	0	20.49	21.51	20.73	5.0	22.5
	16QAM	1	0	25.41	26.60	25.92	0.0	27.5
		1	12	25.80	26.92	25.68	0.0	27.5
		1	24	25.44	26.61	26.00	0.0	27.5
		12	0	24.54	25.56	24.87	1.0	26.5
		12	7	24.52	25.52	24.89	1.0	26.5
		12	13	24.51	25.54	24.87	1.0	26.5
	64QAM	25	0	24.50	25.57	24.88	1.0	26.5
		1	0	24.60	25.82	25.05	1.0	26.5
		1	12	24.90	25.79	25.38	1.0	26.5
		1	24	24.58	25.85	25.05	1.0	26.5
		12	0	23.57	24.56	23.80	2.0	25.5
		12	7	23.53	24.53	23.74	2.0	25.5
	256QAM	12	13	23.54	24.52	23.79	2.0	25.5
		25	0	23.52	24.50	23.78	2.0	25.5
		1	0	23.66	24.75	23.95	2.0	25.5
		1	12	23.49	24.75	24.11	2.0	25.5
		1	24	23.51	24.66	24.03	2.0	25.5
		12	0	22.59	23.43	22.76	3.0	24.5
	256QAM	12	7	22.58	23.43	22.70	3.0	24.5
		12	13	22.56	23.42	22.78	3.0	24.5
		25	0	22.45	23.41	22.74	3.0	24.5
		1	0	20.68	21.82	21.01	5.0	22.5
		1	12	21.05	21.90	21.04	5.0	22.5
		1	24	20.68	21.84	21.00	5.0	22.5
	256QAM	12	0	20.51	21.59	20.70	5.0	22.5
		12	7	20.48	21.57	20.66	5.0	22.5
		12	13	20.46	21.50	20.66	5.0	22.5
		25	0	20.50	21.50	20.73	5.0	22.5

LTE Band 41C (UL CA)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
40MHz (20MHz / 20MHz)	2506.00	2525.80	1	99	1	0	21.84	20.90
			1	0	1	99	13.06	12.94
			100	0	100	0	19.79	18.76
	2583.10	2602.90	1	99	1	0	22.79	21.74
			1	0	1	99	13.70	13.68
			100	0	100	0	20.93	19.84
	2660.20	2680.00	1	99	1	0	21.93	21.04
			1	0	1	99	13.05	12.98
			100	0	100	0	19.76	19.03

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
35MHz (15MHz / 20MHz)	2503.50	2520.60	1	74	1	0	21.75	20.63
			1	0	1	99	12.98	12.85
			75	0	100	0	19.68	18.88
	2583.20	2600.30	1	74	1	0	22.71	21.66
			1	0	1	99	13.75	13.71
			75	0	100	0	20.86	20.01
	2662.90	2680.00	1	74	1	0	21.85	21.01
			1	0	1	99	13.13	12.15
			75	0	100	0	19.75	19.13

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
30MHz (15MHz / 15MHz)	2503.50	2518.50	1	74	1	0	21.81	20.73
			1	0	1	74	12.90	12.93
			75	0	75	0	19.74	18.75
	2585.50	2600.50	1	74	1	0	22.63	21.65
			1	0	1	74	13.74	13.66
			75	0	75	0	20.94	20.03
	2667.50	2682.50	1	74	1	0	21.74	21.06
			1	0	1	74	13.22	13.11
			75	0	75	0	19.74	19.03

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average Power (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
25MHz (5MHz / 20MHz)	2498.50	2510.20	1	24	1	0	21.75	20.85
			1	0	1	99	13.03	12.84
			25	0	100	0	19.88	18.74
	2583.60	2595.30	1	24	1	0	22.61	21.63
			1	0	1	99	13.66	13.54
			25	0	100	0	20.78	19.71
	2668.30	2680.00	1	24	1	0	21.89	21.03
			1	0	1	99	12.98	12.85
			25	0	100	0	19.71	19.11

LTE Band 66 (ANT A)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572		
				1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	QPSK	1	0	23.01	23.80	23.11	0.0	25.5
		1	49	23.65	23.94	23.18	0.0	25.5
		1	99	23.81	23.83	23.42	0.0	25.5
		50	0	22.56	22.94	22.40	1.0	24.5
		50	24	22.92	22.83	22.51	1.0	24.5
		50	50	22.91	22.81	22.46	1.0	24.5
	16QAM	100	0	23.05	22.84	22.37	1.0	24.5
		1	0	22.18	22.96	22.64	1.0	24.5
		1	49	23.19	22.93	22.43	1.0	24.5
		1	99	22.94	22.54	22.65	1.0	24.5
		50	0	21.85	21.91	21.44	2.0	23.5
		50	24	22.21	21.84	21.45	2.0	23.5
	64QAM	50	50	22.40	21.90	21.40	2.0	23.5
		100	0	22.33	21.80	21.44	2.0	23.5
		1	0	21.38	22.03	21.65	2.0	23.5
		1	49	22.08	21.71	21.98	2.0	23.5
		1	99	22.43	22.05	21.75	2.0	23.5
		50	0	21.12	20.82	20.50	3.0	22.5
	256QAM	50	24	21.36	20.86	20.48	3.0	22.5
		50	50	21.48	20.77	20.39	3.0	22.5
		100	0	21.38	20.82	20.41	3.0	22.5
		1	0	19.09	18.81	18.59	5.0	20.5
		1	49	19.44	19.08	18.42	5.0	20.5
		1	99	19.87	18.82	18.70	5.0	20.5
15 MHz	QPSK	50	0	19.36	18.86	18.41	5.0	20.5
		50	24	19.45	18.78	18.46	5.0	20.5
		50	50	19.44	18.84	18.40	5.0	20.5
		100	0	19.51	18.78	18.42	5.0	20.5
	16QAM	1	0	23.03	23.83	23.26	0.0	25.5
		1	37	23.76	23.70	23.45	0.0	25.5
		1	74	24.12	23.65	23.37	0.0	25.5
		36	0	22.66	22.86	22.39	1.0	24.5
		36	20	23.05	22.79	22.36	1.0	24.5
		36	39	23.31	22.81	22.37	1.0	24.5
	64QAM	75	0	23.00	22.79	22.40	1.0	24.5
		1	0	22.91	22.80	22.16	1.0	24.5
		1	37	22.93	22.75	22.07	1.0	24.5
		1	74	23.44	22.91	22.63	1.0	24.5
		36	0	21.95	21.87	21.41	2.0	23.5
		36	20	22.31	21.85	21.41	2.0	23.5
	256QAM	36	39	22.39	21.85	21.39	2.0	23.5
		75	0	22.27	21.86	21.37	2.0	23.5
		1	0	21.74	21.61	21.20	2.0	23.5
		1	37	22.52	22.37	21.59	2.0	23.5
		1	74	22.47	22.02	21.23	2.0	23.5
		36	0	21.23	20.81	20.26	3.0	22.5
	16QAM	36	20	21.45	20.78	20.38	3.0	22.5
		36	39	21.38	20.88	20.35	3.0	22.5
		75	0	21.34	20.72	20.35	3.0	22.5
		1	0	19.50	18.91	18.73	5.0	20.5
		1	37	19.43	19.17	18.57	5.0	20.5
		1	74	19.72	18.95	18.43	5.0	20.5
	256QAM	36	0	19.36	18.87	18.41	5.0	20.5
		36	20	19.42	18.76	18.38	5.0	20.5
		36	39	19.43	18.88	18.39	5.0	20.5
		75	0	19.42	18.73	18.45	5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622		
				1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	QPSK	1	0	23.57	23.83	23.19	0.0	25.5
		1	25	23.89	23.66	23.12	0.0	25.5
		1	49	24.13	23.80	23.20	0.0	25.5
		25	0	22.99	22.81	22.37	1.0	24.5
		25	12	23.16	22.82	22.37	1.0	24.5
		25	25	23.33	22.85	22.27	1.0	24.5
	16QAM	50	0	23.15	22.88	22.33	1.0	24.5
		1	0	23.00	23.17	22.92	1.0	24.5
		1	25	23.34	23.06	22.46	1.0	24.5
		1	49	23.57	22.75	22.18	1.0	24.5
		25	0	22.20	21.88	21.25	2.0	23.5
		25	12	22.43	21.84	21.33	2.0	23.5
	64QAM	25	25	22.40	21.79	21.27	2.0	23.5
		50	0	22.38	21.81	21.39	2.0	23.5
		1	0	22.28	22.05	21.10	2.0	23.5
		1	25	22.54	21.91	21.57	2.0	23.5
		1	49	22.47	22.20	21.63	2.0	23.5
		25	0	21.47	20.82	20.33	3.0	22.5
	256QAM	25	12	21.48	20.84	20.26	3.0	22.5
		25	25	21.36	20.71	20.33	3.0	22.5
		50	0	21.46	20.82	20.40	3.0	22.5
		1	0	18.96	18.81	18.71	5.0	20.5
		1	25	19.35	18.88	18.10	5.0	20.5
		1	49	19.32	18.96	18.03	5.0	20.5
5 MHz	QPSK	25	0	19.44	18.81	18.30	5.0	20.5
		25	12	19.47	18.72	18.32	5.0	20.5
		25	25	19.44	18.87	18.28	5.0	20.5
		50	0	19.49	18.80	18.44	5.0	20.5
	16QAM	1	0	23.79	23.84	23.28	0.0	25.5
		1	12	23.77	23.69	23.18	0.0	25.5
		1	24	23.85	23.67	23.22	0.0	25.5
		12	0	23.10	22.74	22.28	1.0	24.5
		12	7	23.15	22.76	22.23	1.0	24.5
		12	13	23.21	22.83	22.25	1.0	24.5
	64QAM	25	0	23.15	22.84	22.33	1.0	24.5
		1	0	23.03	22.60	22.16	1.0	24.5
		1	12	23.03	23.14	22.48	1.0	24.5
		1	24	23.28	22.92	22.73	1.0	24.5
		12	0	22.35	21.79	21.31	2.0	23.5
		12	7	22.50	21.74	21.24	2.0	23.5
	256QAM	12	13	22.35	21.74	21.28	2.0	23.5
		25	0	22.40	21.82	21.23	2.0	23.5
		1	0	22.31	22.09	21.38	2.0	23.5
		1	12	22.44	21.89	21.70	2.0	23.5
		1	24	22.44	21.94	21.06	2.0	23.5
		12	0	21.39	20.68	20.23	3.0	22.5
	QPSK	12	7	21.46	20.80	20.29	3.0	22.5
		12	13	21.38	20.75	20.26	3.0	22.5
		25	0	21.43	20.79	20.31	3.0	22.5
		1	0	19.64	18.95	18.29	5.0	20.5
		1	12	19.54	19.16	18.45	5.0	20.5
		1	24	19.81	18.62	18.56	5.0	20.5
	16QAM	12	0	19.44	18.78	18.24	5.0	20.5
		12	7	19.41	18.83	18.31	5.0	20.5
		12	13	19.39	18.86	18.27	5.0	20.5
		25	0	19.42	18.80	18.28	5.0	20.5
	64QAM	1	0	22.31	22.09	21.38	2.0	23.5
		1	12	22.44	21.89	21.70	2.0	23.5
		1	24	22.44	21.94	21.06	2.0	23.5
		12	0	21.39	20.68	20.23	3.0	22.5
		12	7	21.46	20.80	20.29	3.0	22.5
		12	13	21.38	20.75	20.26	3.0	22.5
	256QAM	25	0	21.43	20.79	20.31	3.0	22.5
		1	0	19.64	18.95	18.29	5.0	20.5
		1	12	19.54	19.16	18.45	5.0	20.5
		1	24	19.81	18.62	18.56	5.0	20.5
		12	0	19.44	18.78	18.24	5.0	20.5
		12	7	19.41	18.83	18.31	5.0	20.5
	64QAM	12	13	19.39	18.86	18.27	5.0	20.5
		25	0	19.42	18.80	18.28	5.0	20.5
		1	0	22.31	22.09	21.38	2.0	23.5
		1	12	22.44	21.89	21.70	2.0	23.5
		1	24	22.44	21.94	21.06	2.0	23.5
		12	0	21.39	20.68	20.23	3.0	22.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.50 MHz	1745.00 MHz	1778.50 MHz		
3 MHz	QPSK	1	0	23.78	23.61	23.15	0.0	25.5
		1	8	23.79	23.60	23.15	0.0	25.5
		1	14	23.78	23.73	23.27	0.0	25.5
		8	0	23.14	22.81	22.17	1.0	24.5
		8	4	23.17	22.82	22.28	1.0	24.5
		8	7	23.18	22.72	22.28	1.0	24.5
	16QAM	15	0	23.18	22.72	22.28	1.0	24.5
		1	0	23.16	23.30	22.17	1.0	24.5
		1	8	23.57	22.56	22.58	1.0	24.5
		1	14	22.37	22.75	22.87	1.0	24.5
		8	0	22.33	21.79	21.17	2.0	23.5
		8	4	22.45	21.82	21.27	2.0	23.5
	64QAM	8	7	22.40	21.76	21.23	2.0	23.5
		15	0	22.38	21.77	21.27	2.0	23.5
		1	0	22.16	22.04	22.83	2.0	23.5
		1	8	22.52	21.57	21.21	2.0	23.5
		1	14	22.37	21.95	21.25	2.0	23.5
		8	0	21.29	20.81	20.20	3.0	22.5
	256QAM	8	4	21.44	20.86	20.26	3.0	22.5
		8	7	21.35	20.73	20.23	3.0	22.5
		15	0	21.28	20.60	20.27	3.0	22.5
		1	0	19.50	18.77	18.29	5.0	20.5
		1	8	19.31	18.92	18.19	5.0	20.5
		1	14	19.59	18.64	18.39	5.0	20.5
1.4 MHz	QPSK	8	0	19.23	18.93	18.26	5.0	20.5
		8	4	19.29	18.83	18.22	5.0	20.5
		8	7	19.45	18.72	18.28	5.0	20.5
		15	0	19.44	18.73	18.14	5.0	20.5
	16QAM	1	0	23.81	23.64	23.18	0.0	25.5
		1	3	23.76	23.62	23.18	0.0	25.5
		1	5	23.82	23.70	23.21	0.0	25.5
		3	0	23.72	23.72	23.22	0.0	25.5
		3	1	23.80	23.73	23.20	0.0	25.5
		3	3	23.76	23.60	23.12	0.0	25.5
	64QAM	6	0	23.07	22.68	22.26	1.0	24.5
		1	0	23.26	22.85	22.34	1.0	24.5
		1	3	22.95	22.76	22.38	1.0	24.5
		1	5	23.08	23.16	22.09	1.0	24.5
		3	0	23.00	22.74	22.36	1.0	24.5
		3	1	23.27	22.71	22.16	1.0	24.5
	256QAM	3	3	22.99	22.80	22.36	1.0	24.5
		6	0	22.40	21.63	21.13	2.0	23.5
		1	0	22.29	21.83	21.24	2.0	23.5
		1	3	22.56	21.46	21.48	2.0	23.5
		1	5	22.62	21.72	21.16	2.0	23.5
		3	0	22.48	21.83	21.51	2.0	23.5
	QPSK	3	1	22.27	21.81	21.40	2.0	23.5
		3	3	22.60	21.68	21.25	2.0	23.5
		6	0	21.25	20.89	20.26	3.0	22.5
	16QAM	1	0	19.02	19.16	18.36	5.0	20.5
		1	3	19.32	18.99	18.09	5.0	20.5
		1	5	19.18	18.93	18.46	5.0	20.5
	64QAM	3	0	19.14	18.73	18.42	5.0	20.5
		3	1	19.20	18.95	18.34	5.0	20.5
		3	3	19.33	18.68	18.18	5.0	20.5
		6	0	19.30	18.80	18.07	5.0	20.5

LTE Band 66 (ANT B)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572		
				1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	QPSK	1	0	24.53	24.18	24.04	0.0	25.5
		1	49	24.36	24.18	23.82	0.0	25.5
		1	99	24.46	24.20	23.93	0.0	25.5
		50	0	23.56	23.28	23.09	1.0	24.5
		50	24	23.52	23.29	23.08	1.0	24.5
		50	50	23.44	23.25	23.04	1.0	24.5
	16QAM	100	0	23.42	23.26	22.97	1.0	24.5
		1	0	23.89	23.51	23.11	1.0	24.5
		1	49	23.49	23.24	23.08	1.0	24.5
		1	99	23.69	23.23	22.97	1.0	24.5
		50	0	22.47	22.22	22.06	2.0	23.5
		50	24	22.45	22.20	22.11	2.0	23.5
	64QAM	50	50	22.51	22.23	21.97	2.0	23.5
		100	0	22.40	22.22	22.01	2.0	23.5
		1	0	22.97	22.28	22.01	2.0	23.5
		1	49	22.53	22.45	22.23	2.0	23.5
		1	99	22.48	21.99	22.29	2.0	23.5
		50	0	21.48	21.21	21.07	3.0	22.5
	256QAM	50	24	21.46	21.24	21.15	3.0	22.5
		50	50	21.42	21.15	20.95	3.0	22.5
		100	0	21.39	21.23	20.90	3.0	22.5
		1	0	19.31	19.40	19.01	5.0	20.5
		1	49	19.84	19.86	19.00	5.0	20.5
		1	99	19.41	19.22	19.16	5.0	20.5
15 MHz	QPSK	50	0	19.45	19.17	19.02	5.0	20.5
		50	24	19.38	19.14	18.95	5.0	20.5
		50	50	19.39	19.25	18.96	5.0	20.5
		100	0	19.46	19.13	18.95	5.0	20.5
	16QAM	1	0	24.40	24.21	23.91	0.0	25.5
		1	37	24.27	24.04	23.97	0.0	25.5
		1	74	24.35	24.19	23.89	0.0	25.5
		36	0	23.48	23.24	23.04	1.0	24.5
		36	20	23.47	23.20	23.06	1.0	24.5
		36	39	23.44	23.20	23.00	1.0	24.5
	64QAM	75	0	23.42	23.30	23.04	1.0	24.5
		1	0	23.67	23.73	23.33	1.0	24.5
		1	37	23.74	23.24	22.89	1.0	24.5
		1	74	23.15	23.56	23.10	1.0	24.5
		36	0	22.54	22.19	22.02	2.0	23.5
		36	20	22.41	22.11	21.96	2.0	23.5
	256QAM	36	39	22.48	22.26	21.96	2.0	23.5
		75	0	22.45	22.15	21.99	2.0	23.5
		1	0	22.85	22.41	22.23	2.0	23.5
		1	37	22.51	22.09	22.00	2.0	23.5
		1	74	22.85	22.26	21.89	2.0	23.5
		36	0	21.33	21.21	21.08	3.0	22.5
	16QAM	36	20	21.37	21.25	20.91	3.0	22.5
		36	39	21.38	21.19	20.89	3.0	22.5
		75	0	21.44	21.20	20.92	3.0	22.5
		1	0	19.07	19.61	19.10	5.0	20.5
		1	37	19.36	19.28	19.49	5.0	20.5
		1	74	19.83	18.90	19.17	5.0	20.5
	64QAM	36	0	19.48	19.14	18.99	5.0	20.5
		36	20	19.48	19.15	18.99	5.0	20.5
		36	39	19.42	19.20	18.94	5.0	20.5
		75	0	19.41	19.16	18.96	5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622		
				1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	QPSK	1	0	24.41	24.14	23.97	0.0	25.5
		1	25	24.29	24.24	23.96	0.0	25.5
		1	49	24.30	24.12	23.92	0.0	25.5
		25	0	23.44	23.26	23.03	1.0	24.5
		25	12	23.45	23.22	22.99	1.0	24.5
		25	25	23.45	23.14	22.99	1.0	24.5
	16QAM	50	0	23.51	23.31	23.04	1.0	24.5
		1	0	23.95	23.21	23.13	1.0	24.5
		1	25	23.73	23.41	23.15	1.0	24.5
		1	49	23.10	23.56	23.00	1.0	24.5
		25	0	22.39	22.28	21.99	2.0	23.5
		25	12	22.45	22.24	22.00	2.0	23.5
	64QAM	25	25	22.39	22.19	21.85	2.0	23.5
		50	0	22.44	22.21	21.97	2.0	23.5
		1	0	22.60	22.33	21.97	2.0	23.5
		1	25	22.55	22.00	22.19	2.0	23.5
		1	49	22.76	22.61	22.05	2.0	23.5
		25	0	21.48	21.19	20.87	3.0	22.5
	256QAM	25	12	21.36	21.21	20.97	3.0	22.5
		25	25	21.43	21.20	20.97	3.0	22.5
		50	0	21.52	21.16	20.99	3.0	22.5
		1	0	19.45	19.05	18.94	5.0	20.5
		1	25	19.54	19.17	18.58	5.0	20.5
		1	49	19.27	19.55	19.25	5.0	20.5
5 MHz	QPSK	25	0	19.40	19.26	18.88	5.0	20.5
		25	12	19.43	19.14	18.92	5.0	20.5
		25	25	19.50	19.16	18.91	5.0	20.5
		50	0	19.44	19.22	18.95	5.0	20.5
	16QAM	1	0	24.30	24.22	23.90	0.0	25.5
		1	12	24.31	24.07	23.76	0.0	25.5
		1	24	24.34	24.17	23.79	0.0	25.5
		12	0	23.46	23.19	22.90	1.0	24.5
		12	7	23.41	23.19	22.89	1.0	24.5
		12	13	23.49	23.21	22.87	1.0	24.5
	64QAM	25	0	23.43	23.21	22.94	1.0	24.5
		1	0	23.32	23.44	22.40	1.0	24.5
		1	12	23.09	22.74	22.88	1.0	24.5
		1	24	23.61	23.34	23.13	1.0	24.5
		12	0	22.45	22.12	21.94	2.0	23.5
		12	7	22.44	22.12	21.85	2.0	23.5
	256QAM	12	13	22.44	22.04	21.99	2.0	23.5
		25	0	22.32	22.16	21.94	2.0	23.5
		1	0	22.49	22.00	21.92	2.0	23.5
		1	12	22.57	22.24	22.24	2.0	23.5
		1	24	22.04	22.26	22.10	2.0	23.5
		12	0	21.50	21.14	20.87	3.0	22.5
	QPSK	12	7	21.53	21.20	20.90	3.0	22.5
		12	13	21.44	21.05	20.74	3.0	22.5
		25	0	21.40	21.14	20.93	3.0	22.5
		1	0	19.45	19.52	18.93	5.0	20.5
		1	12	19.29	19.51	18.82	5.0	20.5
		1	24	19.46	19.27	18.63	5.0	20.5
	16QAM	12	0	19.44	19.16	18.92	5.0	20.5
		12	7	19.39	19.20	19.02	5.0	20.5
		12	13	19.44	19.11	18.87	5.0	20.5
		25	0	19.42	19.20	18.81	5.0	20.5
	64QAM	1	0	24.30	24.22	23.90	0.0	25.5
		1	12	24.31	24.07	23.76	0.0	25.5
		1	24	24.34	24.17	23.79	0.0	25.5
		12	0	23.46	23.19	22.90	1.0	24.5
		12	7	23.41	23.19	22.89	1.0	24.5
		12	13	23.49	23.21	22.87	1.0	24.5
	256QAM	25	0	23.43	23.21	22.94	1.0	24.5
		1	0	23.32	23.44	22.40	1.0	24.5
		1	12	23.09	22.74	22.88	1.0	24.5
		1	24	23.61	23.34	23.13	1.0	24.5
		12	0	22.45	22.12	21.94	2.0	23.5
		12	7	22.44	22.12	21.85	2.0	23.5
	64QAM	12	13	22.44	22.04	21.99	2.0	23.5
		25	0	22.32	22.16	21.94	2.0	23.5
		1	0	22.49	22.00	21.92	2.0	23.5
		1	12	22.57	22.24	22.24	2.0	23.5
		1	24	22.04	22.26	22.10	2.0	23.5
		12	0	21.50	21.14	20.87	3.0	22.5
	256QAM	12	7	21.53	21.20	20.90	3.0	22.5
		12	13	21.44	21.05	20.74	3.0	22.5
		25	0	21.40	21.14	20.93	3.0	22.5
		1	0	19.45	19.52	18.93	5.0	20.5
		1	12	19.29	19.51	18.82	5.0	20.5
		1	24	19.46	19.27	18.63	5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.50 MHz	1745.00 MHz	1778.50 MHz		
3 MHz	QPSK	1	0	24.38	24.17	23.79	0.0	25.5
		1	8	24.33	24.11	23.69	0.0	25.5
		1	14	24.29	24.25	23.78	0.0	25.5
		8	0	23.41	23.22	22.88	1.0	24.5
		8	4	23.39	23.16	22.88	1.0	24.5
		8	7	23.42	23.13	22.87	1.0	24.5
	16QAM	15	0	23.41	23.18	22.92	1.0	24.5
		1	0	23.23	23.00	23.30	1.0	24.5
		1	8	23.35	23.15	23.07	1.0	24.5
		1	14	23.43	23.31	22.88	1.0	24.5
		8	0	22.42	22.19	21.97	2.0	23.5
		8	4	22.41	22.22	21.85	2.0	23.5
	64QAM	8	7	22.44	22.14	21.95	2.0	23.5
		15	0	22.35	22.25	21.85	2.0	23.5
		1	0	22.59	22.09	22.06	2.0	23.5
		1	8	22.67	21.79	21.89	2.0	23.5
		1	14	22.27	22.13	22.03	2.0	23.5
		8	0	21.30	21.17	20.87	3.0	22.5
	256QAM	8	4	21.33	21.06	20.92	3.0	22.5
		8	7	21.29	21.18	20.76	3.0	22.5
		15	0	21.34	21.20	20.91	3.0	22.5
		1	0	19.52	19.16	18.89	5.0	20.5
		1	8	19.27	19.17	19.22	5.0	20.5
		1	14	19.56	19.13	18.98	5.0	20.5
1.4 MHz	QPSK	8	0	19.20	19.13	18.84	5.0	20.5
		8	4	19.32	19.07	18.90	5.0	20.5
		8	7	19.55	19.27	18.95	5.0	20.5
		15	0	19.36	19.15	19.02	5.0	20.5
	16QAM	1	0	24.43	24.21	23.86	0.0	25.5
		1	3	24.35	23.99	23.72	0.0	25.5
		1	5	24.40	24.05	23.75	0.0	25.5
		3	0	24.39	24.23	23.83	1.0	24.5
		3	1	24.39	24.24	23.85	1.0	24.5
		3	3	24.30	24.11	23.81	1.0	24.5
	64QAM	6	0	23.41	23.25	22.91	1.0	24.5
		1	0	23.38	23.09	22.75	1.0	24.5
		1	3	23.32	23.34	23.09	1.0	24.5
		1	5	23.90	23.35	23.01	1.0	24.5
		3	0	23.41	23.09	22.84	2.0	23.5
		3	1	23.27	23.22	22.99	2.0	23.5
	256QAM	3	3	23.33	23.19	22.87	2.0	23.5
		6	0	22.38	22.20	21.89	2.0	23.5
		1	0	22.37	22.42	22.01	2.0	23.5
		1	3	22.34	22.23	21.90	2.0	23.5
		1	5	22.41	22.40	21.56	2.0	23.5
		3	0	22.65	22.25	21.85	3.0	22.5
	QPSK	3	1	22.36	22.19	21.84	3.0	22.5
		3	3	22.29	22.30	21.85	3.0	22.5
		6	0	21.67	21.13	20.88	3.0	22.5
	16QAM	1	0	19.47	19.22	18.72	5.0	20.5
		1	3	18.98	19.03	19.06	5.0	20.5
		1	5	19.17	19.14	18.95	5.0	20.5
	64QAM	3	0	19.49	19.26	18.74	5.0	20.5
		3	1	19.43	19.27	18.94	5.0	20.5
		3	3	19.45	19.07	18.66	5.0	20.5
		6	0	19.38	19.24	19.03	5.0	20.5

LTE Band 71

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				133222	133297	133372		
				673.00 MHz	680.50 MHz	688.00 MHz		
20 MHz	QPSK	1	0	23.74	23.96	24.07	0.0	25.5
		1	49	23.53	23.85	24.01	0.0	25.5
		1	99	23.44	23.70	23.83	0.0	25.5
		50	0	22.69	22.92	23.07	1.0	24.5
		50	24	22.71	22.89	23.06	1.0	24.5
		50	50	22.60	22.75	22.88	1.0	24.5
	16QAM	100	0	22.66	22.86	23.04	1.0	24.5
		1	0	23.09	23.00	23.23	1.0	24.5
		1	49	23.21	22.90	22.70	1.0	24.5
		1	99	22.01	22.61	23.36	1.0	24.5
		50	0	21.73	22.01	22.02	2.0	23.5
		50	24	21.67	21.85	22.00	2.0	23.5
	64QAM	50	50	21.59	21.68	21.93	2.0	23.5
		100	0	21.69	21.90	21.93	2.0	23.5
		1	0	23.02	21.64	22.04	2.0	23.5
		1	49	22.49	21.83	22.02	2.0	23.5
		1	99	22.67	21.71	21.96	2.0	23.5
		50	0	21.71	20.96	21.13	3.0	22.5
	256QAM	50	24	21.70	20.97	20.92	3.0	22.5
		50	50	21.62	20.71	20.89	3.0	22.5
		100	0	21.60	20.86	20.96	3.0	22.5
		1	0	19.27	18.66	19.56	4.0	21.5
		1	49	19.09	19.06	18.67	4.0	21.5
		1	99	18.68	19.15	19.21	4.0	21.5
15 MHz	QPSK	50	0	18.61	18.91	19.12	5.0	20.5
		50	24	18.70	18.86	18.98	5.0	20.5
		50	50	18.70	18.73	18.95	5.0	20.5
		100	0	18.80	18.92	18.97	5.0	20.5
	16QAM	1	0	23.63	23.56	24.05	0.0	25.5
		1	37	23.70	23.62	24.21	0.0	25.5
		1	74	23.56	23.63	23.96	0.0	25.5
		36	0	22.75	23.55	23.07	1.0	24.5
		36	20	22.64	23.58	22.95	1.0	24.5
		36	39	22.61	22.80	22.94	1.0	24.5
	64QAM	75	0	22.59	22.89	22.98	1.0	24.5
		1	0	23.22	22.29	23.03	1.0	24.5
		1	37	23.22	22.94	22.59	1.0	24.5
		1	74	22.57	22.96	23.11	1.0	24.5
		36	0	21.68	21.83	21.98	2.0	23.5
		36	20	21.65	21.89	22.05	2.0	23.5
	256QAM	36	39	21.58	21.81	21.95	2.0	23.5
		75	0	21.62	21.84	22.00	2.0	23.5
		1	0	21.79	22.32	22.16	2.0	23.5
		1	37	21.95	21.97	22.24	2.0	23.5
		1	74	21.97	21.79	21.74	2.0	23.5
		36	0	20.68	20.89	21.10	3.0	22.5
		36	20	20.60	20.95	20.97	3.0	22.5
		36	39	20.62	20.81	21.04	3.0	22.5
		75	0	20.60	20.81	21.01	3.0	22.5
		1	0	18.79	19.27	19.51	4.0	21.5
		1	37	18.45	18.89	18.64	4.0	21.5
		1	74	18.47	18.94	19.12	4.0	21.5
		36	0	18.62	18.93	19.09	5.0	20.5
		36	20	18.74	18.78	19.04	5.0	20.5
		36	39	18.56	18.85	18.86	5.0	20.5
		75	0	18.61	18.87	18.95	5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				133172	133297	133422		
				668.00 MHz	680.50 MHz	693.00 MHz		
10 MHz	QPSK	1	0	23.47	23.92	24.01	0.0	25.5
		1	25	23.39	23.70	23.84	0.0	25.5
		1	49	23.47	23.76	23.85	0.0	25.5
		25	0	22.62	22.88	23.02	1.0	24.5
		25	12	22.62	22.85	23.07	1.0	24.5
		25	25	22.58	22.87	22.97	1.0	24.5
	16QAM	50	0	22.62	22.94	23.00	1.0	24.5
		1	0	22.87	22.83	22.99	1.0	24.5
		1	25	22.25	22.68	23.12	1.0	24.5
		1	49	22.71	22.66	23.28	1.0	24.5
		25	0	21.68	21.92	22.14	2.0	23.5
		25	12	21.62	21.79	21.99	2.0	23.5
	64QAM	25	25	21.51	21.88	21.84	2.0	23.5
		50	0	21.60	21.84	22.03	2.0	23.5
		1	0	21.66	21.80	22.26	2.0	23.5
		1	25	21.85	21.80	21.90	2.0	23.5
		1	49	21.58	22.16	21.63	2.0	23.5
		25	0	20.60	20.86	21.02	3.0	22.5
	256QAM	25	12	20.62	20.92	20.99	3.0	22.5
		25	25	20.56	20.81	20.88	3.0	22.5
		50	0	20.61	20.84	21.06	3.0	22.5
		1	0	18.74	18.66	19.39	4.0	21.5
		1	25	18.30	18.60	19.31	4.0	21.5
		1	49	18.43	19.11	19.35	4.0	21.5
5 MHz	QPSK	25	0	18.67	18.84	19.02	5.0	20.5
		25	12	18.59	18.85	18.97	5.0	20.5
		25	25	18.56	18.88	18.95	5.0	20.5
		50	0	18.57	18.99	19.03	5.0	20.5
	16QAM	1	0	23.50	23.79	23.93	0.0	25.5
		1	12	23.45	23.99	23.95	0.0	25.5
		1	24	23.43	23.89	23.85	0.0	25.5
		12	0	22.55	22.93	22.99	1.0	24.5
		12	7	22.48	22.87	22.96	1.0	24.5
		12	13	22.46	22.87	22.96	1.0	24.5
	64QAM	25	0	22.50	22.96	23.05	1.0	24.5
		1	0	22.76	22.48	23.10	1.0	24.5
		1	12	22.61	23.00	23.01	1.0	24.5
		1	24	22.64	23.08	23.11	1.0	24.5
		12	0	21.61	21.92	22.13	2.0	23.5
		12	7	21.54	21.90	22.05	2.0	23.5
	256QAM	12	13	21.65	21.71	22.00	2.0	23.5
		25	0	21.58	21.93	21.98	2.0	23.5
		1	0	21.49	21.93	21.82	2.0	23.5
		1	12	22.00	22.06	22.22	2.0	23.5
		1	24	21.45	22.12	22.21	2.0	23.5
		12	0	20.56	20.81	20.92	3.0	22.5
	QPSK	12	7	20.60	20.88	21.08	3.0	22.5
		12	13	20.50	20.83	21.03	3.0	22.5
		25	0	20.52	20.87	20.91	3.0	22.5
	16QAM	1	0	19.28	19.08	19.40	4.0	21.5
		1	12	18.70	19.02	18.90	4.0	21.5
		1	24	18.59	19.05	18.84	4.0	21.5
	64QAM	12	0	18.66	18.77	18.89	5.0	20.5
		12	7	18.57	18.83	19.01	5.0	20.5
		12	13	18.48	18.79	18.94	5.0	20.5
		25	0	18.60	18.91	19.08	5.0	20.5

NR Band n30

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					462000	2310.00 MHz			
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0		20.77		0.5	22.0
			1	1		20.97		0.0	22.5
			1	25		20.88		0.0	22.5
			1	50		20.98		0.0	22.5
			1	51		20.84		0.5	22.0
			25	0		20.93		0.5	22.0
			25	13		20.92		0.0	22.5
			25	27		20.94		0.5	22.0
			50	0		20.92		0.5	22.0
		QPSK	1	0		20.23		1.0	21.5
			1	1		20.98		0.0	22.5
			1	25		20.92		0.0	22.5
			1	50		20.99		0.0	22.5
			1	51		20.41		1.0	21.5
			25	0		20.93		1.0	21.5
			25	13		20.96		0.0	22.5
			25	27		20.95		1.0	21.5
			50	0		20.93		1.0	21.5
		16QAM	1	0		19.93		2.0	20.5
			1	1		21.00		1.0	21.5
			1	107		20.80		1.0	21.5
			1	214		20.88		1.0	21.5
			1	215		19.99		2.0	20.5
			108	0		19.90		2.0	20.5
			108	54		20.44		1.0	21.5
			108	108		19.89		2.0	20.5
			216	0		19.97		2.0	20.5
		64QAM	1	1		19.92		2.5	20.0
		256QAM	1	1		17.91		4.5	18.0
		CP-OFDM	QPSK	1	0		18.87		3.0
	1			1		20.91		1.5	21.0
	1			107		20.44		1.5	21.0
	1			214		20.54		1.5	21.0
	1			215		18.90		3.0	19.5
	108			0		18.96		3.0	19.5
	108			54		20.48		1.5	21.0
	108			108		19.01		3.0	19.5
	216			0		18.97		3.0	19.5
	16QAM		1	0		19.10		3.0	19.5
			1	1		20.13		2.0	20.5
			1	107		20.06		2.0	20.5
			1	214		19.85		2.0	20.5
			1	215		18.93		3.0	19.5
			108	0		18.93		3.0	19.5
			108	54		19.91		2.0	20.5
			108	108		18.98		3.0	19.5
			216	0		18.97		3.0	19.5
	64QAM		1	1		18.65		3.5	19.0
	256QAM		1	1		15.22		6.5	16.0
	BW (MHz)		Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)		
461500		462000					462500		
2307.50 MHz		2310.00 MHz					2312.50 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	20.75	20.90	20.57	0.5	22.0
			1	1	20.19	20.43	20.42	0.0	22.5
			1	12	20.13	20.34	20.33	0.0	22.5
			1	23	20.25	20.42	20.44	0.0	22.5
			1	24	20.95	20.55	20.57	0.5	22.0
			12	0	20.25	20.38	20.41	0.5	22.0
			12	6	20.25	20.38	20.38	0.0	22.5
			12	13	20.27	20.40	20.42	0.5	22.0
			25	0	20.28	20.39	20.41	0.5	22.0
		QPSK	1	0	20.21	20.45	20.31	1.0	21.5
			1	1	20.29	20.43	20.41	0.0	22.5
			1	12	20.19	20.37	20.36	0.0	22.5
			1	23	20.31	20.47	20.43	0.0	22.5
			1	24	20.35	20.55	20.43	1.0	21.5
			12	0	20.28	20.38	20.40	1.0	21.5
			12	6	20.29	20.40	20.42	0.0	22.5
			12	13	20.32	20.39	20.41	1.0	21.5
			25	0	20.31	20.39	20.42	1.0	21.5
		16QAM	1	1	20.27	20.41	20.49	1.0	21.5
			1	12	20.12	20.29	20.33	1.0	21.5
			1	23	20.21	20.39	20.40	1.0	21.5
			64QAM	1	1	19.34	19.36	19.35	2.5
		256QAM	1	1	17.30	17.43	17.26	4.5	18.0
	CP-OFDM	QPSK	1	1	20.29	20.27	20.42	1.5	21.0

NR Band n41 (PC2)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average POWER (dBm)					
					Measured Pwr (dBm)			MPR	Tune-up Limit	
					509202	518598	528000			
					2546.01 MHz	2592.99 MHz	2640.00 MHz			
100 MHz	DFT-s-OFDM	π/2 BPSK	1	0	21.59	21.79	23.43	3.5	24.0	
			1	1	25.62	25.64	25.84	0.0	27.5	
			1	136	26.21	26.25	25.87	0.0	27.5	
			1	271	26.61	25.43	25.59	0.0	27.5	
			1	272	22.93	21.74	21.91	3.5	24.0	
			135	0	25.24	25.40	25.89	0.5	27.0	
			135	69	26.22	26.30	26.00	0.0	27.5	
			135	138	25.95	25.32	25.07	0.5	27.0	
			270	0	25.62	25.69	25.51	0.5	27.0	
		QPSK	1	0	21.61	21.69	23.54	3.5	24.0	
			1	1	25.33	25.46	26.70	0.0	27.5	
			1	136	25.95	26.06	25.69	0.0	27.5	
			1	271	26.44	25.29	25.43	0.0	27.5	
			1	272	22.75	21.56	21.73	3.5	24.0	
			135	0	24.52	24.69	25.13	1.0	26.5	
			135	69	25.95	26.14	25.78	0.0	27.5	
			135	138	25.19	24.67	24.38	1.0	26.5	
			270	0	24.93	25.07	24.81	1.0	26.5	
		16QAM	1	0	21.64	21.87	23.39	3.5	24.0	
			1	1	24.39	24.54	25.64	1.0	26.5	
			1	136	25.06	25.13	24.47	1.0	26.5	
			1	271	25.70	25.41	24.37	1.0	26.5	
			1	272	22.86	21.93	21.61	3.5	24.0	
			135	0	23.54	23.71	24.05	2.0	25.5	
			135	69	25.00	25.12	24.76	1.0	26.5	
			135	138	24.22	23.64	23.38	2.0	25.5	
			270	0	23.91	24.07	23.78	2.0	25.5	
		64QAM	1	1	22.71	22.72	24.32	2.5	25.0	
		256QAM	1	1	20.77	20.93	22.59	4.5	23.0	
		CP-OFDM	QPSK	1	0	21.62	21.83	23.38	3.5	24.0
				1	1	23.77	23.99	25.24	1.5	26.0
				1	137	24.42	24.60	24.11	1.5	26.0
				1	271	24.94	23.78	23.86	1.5	26.0
				1	272	22.79	21.63	21.68	3.5	24.0
				135	0	22.54	22.74	23.02	3.0	24.5
				135	69	24.47	24.65	24.25	1.5	26.0
	135			138	23.25	24.47	22.36	3.0	24.5	
	270			0	22.90	23.06	22.74	3.0	24.5	
	16QAM		1	0	21.70	21.99	23.27	3.5	24.0	
			1	1	23.39	23.63	24.89	2.0	25.5	
			1	137	24.22	24.36	23.96	2.0	25.5	
			1	271	24.70	23.29	23.56	2.0	25.5	
			1	272	22.93	21.67	21.90	3.5	24.0	
			135	0	22.56	22.74	23.08	3.0	24.5	
			135	69	23.98	24.13	23.75	2.0	25.5	
			135	138	23.24	22.66	22.36	3.0	24.5	
			270	0	22.93	23.09	22.74	3.0	24.5	
	64QAM		1	1	21.67	21.99	23.30	3.5	24.0	
	256QAM		1	1	18.94	18.97	20.60	6.5	21.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	
					508200	518598	528996			
					2541.00 MHz	2592.99 MHz	2644.98 MHz			
90 MHz	DFT-s-OFDM	π/2 BPSK	1	0	21.68	21.92	22.87	3.5	24.0	
			1	1	25.67	25.57	26.43	0.0	27.5	
			1	123	26.22	26.21	25.38	0.0	27.5	
			1	243	26.60	25.53	25.20	0.0	27.5	
			1	244	22.96	21.88	21.59	3.5	24.0	
			120	0	25.22	25.42	25.36	0.5	27.0	
			120	62	26.17	26.33	25.57	0.0	27.5	
			120	125	25.85	25.36	24.64	0.5	27.0	
			243	0	25.56	25.71	24.99	0.5	27.0	
		QPSK	1	0	21.64	21.94	22.78	3.5	24.0	
			1	1	25.59	25.60	26.36	0.0	27.5	
			1	123	26.23	26.14	25.35	0.0	27.5	
			1	243	26.61	25.45	25.15	0.0	27.5	
			1	244	22.96	21.84	21.53	3.5	24.0	
			120	0	24.71	24.84	24.80	1.0	26.5	
			120	62	26.20	26.24	25.45	0.0	27.5	
			120	125	25.35	24.73	24.08	1.0	26.5	
			243	0	25.15	25.17	24.53	1.0	26.5	
		16QAM	1	1	24.70	24.87	25.16	1.0	26.5	
			1	123	25.22	25.53	24.11	1.0	26.5	
			1	243	25.88	25.62	24.11	1.0	26.5	
			64QAM	1	1	23.07	22.82	23.82	2.5	25.0
		256QAM	1	1	22.12	21.07	22.24	4.5	23.0	
	CP-OFDM	QPSK	1	1	24.04	24.03	24.86	1.5	26.0	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					507204	518598	529998		
					2536.02 MHz	2592.99 MHz	2649.99 MHz		
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.73	22.05	23.11	3.5	24.0
			1	1	25.67	25.70	26.60	0.0	27.5
			1	108	26.20	26.25	25.80	0.0	27.5
			1	215	26.30	25.57	25.62	0.0	27.5
			1	216	22.85	21.97	22.04	3.5	24.0
			108	0	25.17	25.50	25.66	0.5	27.0
			108	54	26.15	26.32	25.89	0.0	27.5
			108	108	25.80	25.42	25.05	0.5	27.0
			216	0	25.52	25.74	25.38	0.5	27.0
		QPSK	1	0	21.76	22.06	23.08	3.5	24.0
			1	1	25.61	25.62	26.64	0.0	27.5
			1	108	26.16	26.19	25.68	0.0	27.5
			1	215	26.33	25.47	25.54	0.0	27.5
			1	216	22.69	22.00	21.97	3.5	24.0
			108	0	24.59	24.87	25.08	1.0	26.5
			108	54	26.11	26.23	25.87	0.0	27.5
			108	109	25.28	24.80	24.47	1.0	26.5
			216	0	25.05	25.16	24.85	1.0	26.5
		16QAM	1	1	24.43	24.94	25.49	1.0	26.5
			1	108	25.03	25.27	24.39	1.0	26.5
			1	215	25.46	25.36	24.35	1.0	26.5
		64QAM	1	1	22.78	22.93	24.11	2.5	25.0
		256QAM	1	1	20.87	21.25	22.03	4.5	23.0
	CP-OFDM	QPSK	1	1	24.01	24.11	25.02	1.5	26.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					506202	518598	531000		
					2531.02 MHz	2592.99 MHz	2655.00 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.67	22.05	22.61	3.5	24.0
			1	1	25.68	25.62	26.06	0.0	27.5
			1	94	26.17	26.25	25.22	0.0	27.5
			1	187	26.28	25.63	25.20	0.0	27.5
			1	188	22.55	22.00	21.63	3.5	24.0
			90	0	25.15	25.54	25.21	0.5	27.0
			90	49	26.10	26.38	25.41	0.0	27.5
			90	99	25.77	25.47	24.63	0.5	27.0
			180	0	25.50	25.73	24.91	0.5	27.0
		QPSK	1	0	21.68	21.99	22.48	3.5	24.0
			1	1	25.57	25.60	26.09	0.0	27.5
			1	94	26.04	26.13	25.24	0.0	27.5
			1	187	26.14	25.62	25.09	0.0	27.5
			1	188	22.56	21.96	21.58	3.5	24.0
			90	0	24.56	24.95	24.58	1.0	26.5
			90	49	26.04	26.22	25.29	0.0	27.5
			90	99	25.18	24.82	24.05	1.0	26.5
			180	0	24.92	25.14	24.41	1.0	26.5
		16QAM	1	1	24.41	24.79	24.90	1.0	26.5
			1	94	25.01	25.22	24.07	1.0	26.5
			1	187	25.21	25.77	24.10	1.0	26.5
		64QAM	1	1	22.77	22.86	23.38	2.5	25.0
		256QAM	1	1	20.58	20.95	21.68	4.5	23.0
	CP-OFDM	QPSK	1	1	23.90	24.09	24.49	1.5	26.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					505200	518598	513996		
					2526.00 MHz	2592.99 MHz	2659.98 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.71	22.52	22.83	3.5	24.0
			1	1	25.53	26.05	26.32	0.0	27.5
			1	80	26.05	26.67	25.62	0.0	27.5
			1	160	26.09	26.07	25.53	0.0	27.5
			1	161	22.56	22.50	21.93	3.5	24.0
			81	0	25.14	25.99	25.47	0.5	27.0
			81	40	26.00	26.74	25.73	0.0	27.5
			81	81	25.76	25.86	25.01	0.5	27.0
			162	0	25.41	26.11	25.21	0.5	27.0
		QPSK	1	0	21.66	22.41	22.75	3.5	24.0
			1	1	25.50	25.97	26.28	0.0	27.5
			1	80	25.94	26.64	25.58	0.0	27.5
			1	160	25.98	26.01	25.44	0.0	27.5
			1	161	22.49	22.47	21.91	3.5	24.0
			81	0	24.56	25.33	24.90	1.0	26.5
			81	40	25.88	26.61	25.60	0.0	27.5
			81	81	25.11	25.24	24.44	1.0	26.5
			162	0	24.83	25.52	24.70	1.0	26.5
		16QAM	1	1	24.19	25.33	24.97	1.0	26.5
			1	80	25.28	26.08	24.07	1.0	26.5
			1	160	25.43	26.31	24.35	1.0	26.5
		64QAM	1	1	22.85	23.24	23.62	2.5	25.0
		256QAM	1	1	20.77	21.62	21.79	4.5	23.0
	CP-OFDM	QPSK	1	1	23.82	24.55	24.79	1.5	26.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					504204	518598	532998		
					2521.01 MHz	2592.99 MHz	2665.00 MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.76	22.56	22.60	3.5	24.0
			1	1	25.61	26.19	26.06	0.0	27.5
			1	66	25.91	26.69	25.44	0.0	27.5
			1	131	25.69	26.15	25.62	0.0	27.5
			1	132	22.05	22.61	22.12	3.5	24.0
			64	0	25.12	26.02	25.40	0.5	27.0
			64	34	25.84	26.76	25.65	0.0	27.5
			64	69	25.64	25.94	24.99	0.5	27.0
			128	0	25.23	26.11	25.16	0.5	27.0
		QPSK	1	0	21.67	22.51	22.57	3.5	24.0
			1	1	25.60	26.09	26.06	0.0	27.5
			1	66	25.84	26.48	25.41	0.0	27.5
			1	131	25.62	26.04	25.47	0.0	27.5
			1	132	22.02	22.57	21.92	3.5	24.0
			64	0	24.56	25.35	24.77	1.0	26.5
			64	34	25.78	26.54	25.49	0.0	27.5
			64	69	25.04	25.24	24.37	1.0	26.5
			128	0	24.68	25.51	24.56	1.0	26.5
		16QAM	1	1	24.52	25.24	24.80	1.0	26.5
			1	66	25.01	25.59	24.46	1.0	26.5
			1	131	24.89	25.87	24.30	1.0	26.5
		64QAM	1	1	22.88	23.37	23.27	2.5	25.0
		256QAM	1	1	20.87	21.45	21.85	4.5	23.0
	CP-OFDM	QPSK	1	1	23.95	24.46	24.39	1.5	26.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					503202	518598	534000		
					2516.01 MHz	2592.99 MHz	2670.00 MHz		
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.82	22.93	22.35	3.5	24.0
			1	1	25.67	26.61	25.93	0.0	27.5
			1	52	25.88	26.53	25.50	0.0	27.5
			1	104	25.76	26.42	25.67	0.0	27.5
			1	105	22.15	22.92	22.04	3.5	24.0
			50	0	25.20	26.17	25.10	0.5	27.0
			50	28	25.75	26.72	25.58	0.0	27.5
			50	56	25.32	26.06	25.02	0.5	27.0
			100	0	25.23	26.13	25.05	0.5	27.0
		QPSK	1	0	21.64	22.62	22.50	3.5	24.0
			1	1	25.45	26.14	25.96	0.0	27.5
			1	52	25.75	26.86	25.32	0.0	27.5
			1	104	25.88	26.11	25.44	0.0	27.5
			1	105	22.40	22.61	21.91	3.5	24.0
			50	0	24.58	25.45	24.62	1.0	26.5
			50	28	25.63	26.62	25.43	0.0	27.5
			50	56	24.97	25.32	24.33	1.0	26.5
			100	0	24.58	25.53	24.50	1.0	26.5
		16QAM	1	1	24.51	25.32	24.75	1.0	26.5
			1	52	24.96	25.67	24.10	1.0	26.5
			1	104	25.13	26.13	24.35	1.0	26.5
		64QAM	1	1	22.86	23.46	23.43	2.5	25.0
		256QAM	1	1	21.00	21.70	21.60	4.5	23.0
	CP-OFDM	QPSK	1	1	23.94	24.67	24.47	1.5	26.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					502200	518598	534996		
					2511.00 MHz	2592.99 MHz	2675.00 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.51	22.53	22.07	3.5	24.0
			1	1	25.35	26.24	25.63	0.0	27.5
			1	39	25.39	26.33	25.19	0.0	27.5
			1	76	25.33	26.06	25.43	0.0	27.5
			1	77	21.79	22.60	21.82	3.5	24.0
			36	0	24.93	26.19	24.86	0.5	27.0
			36	21	25.36	26.82	25.28	0.0	27.5
			36	42	24.96	26.13	24.78	0.5	27.0
			75	0	24.84	25.85	24.80	0.5	27.0
		QPSK	1	0	21.57	22.68	22.27	3.5	24.0
			1	1	25.49	26.22	25.82	0.0	27.5
			1	39	25.60	26.51	25.35	0.0	27.5
			1	76	25.73	26.21	25.51	0.0	27.5
			1	77	22.16	22.59	21.90	3.5	24.0
			36	0	24.60	25.43	24.51	1.0	26.5
			36	21	25.63	26.55	25.37	0.0	27.5
			36	42	24.75	25.33	24.33	1.0	26.5
			75	0	24.55	25.52	24.43	1.0	26.5
		16QAM	1	1	24.29	25.50	24.67	1.0	26.5
			1	39	24.66	25.72	24.01	1.0	26.5
			1	76	25.00	25.48	24.40	1.0	26.5
		64QAM	1	1	22.90	23.50	23.06	2.5	25.0
		256QAM	1	1	20.86	21.78	21.53	4.5	23.0
	CP-OFDM	QPSK	1	1	23.89	24.68	24.26	1.5	26.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					501204	518598	535998		
					2506.02 MHz	2592.99 MHz	2679.99 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.61	22.53	22.29	3.5	24.0
			1	1	25.45	26.20	25.85	0.0	27.5
			1	26	25.64	26.18	25.36	0.0	27.5
			1	49	25.66	26.11	25.48	0.0	27.5
			1	50	22.09	22.87	21.87	3.5	24.0
			25	0	25.02	26.25	24.99	0.5	27.0
			25	13	25.56	26.21	25.40	0.0	27.5
			25	26	25.13	26.12	24.85	0.5	27.0
		QPSK	50	0	24.97	25.97	24.90	0.5	27.0
			1	0	21.65	22.78	22.24	3.5	24.0
			1	1	25.55	26.26	25.61	0.0	27.5
			1	26	25.57	26.40	25.26	0.0	27.5
			1	49	25.45	26.19	25.38	0.0	27.5
			1	50	22.01	22.71	21.88	3.5	24.0
			25	0	24.59	25.47	24.36	1.0	26.5
			25	13	25.58	26.54	25.31	0.0	27.5
			25	26	24.62	25.39	24.30	1.0	26.5
			50	0	24.50	25.46	24.39	1.0	26.5
		16QAM	1	1	24.40	25.58	24.48	1.0	26.5
			1	26	24.64	25.59	24.43	1.0	26.5
			1	49	24.71	26.17	24.39	1.0	26.5
		64QAM	1	1	22.80	23.64	23.10	2.5	25.0
		256QAM	1	1	21.08	21.92	21.44	4.5	23.0
	CP-OFDM	QPSK	1	1	23.88	24.71	24.10	1.5	26.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					500700	518598	536496		
					2503.50 MHz	2592.99 MHz	2682.48 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	21.56	22.49	22.34	3.5	24.0
			1	1	25.55	26.19	25.91	0.0	27.5
			1	19	25.61	26.45	25.30	0.0	27.5
			1	36	25.82	26.14	25.49	0.0	27.5
			1	37	22.14	22.48	21.88	3.5	24.0
			18	0	25.00	25.95	25.03	0.5	27.0
			18	10	25.65	26.57	25.42	0.0	27.5
			18	20	25.29	25.84	24.85	0.5	27.0
		QPSK	36	0	25.00	26.00	24.86	0.5	27.0
			1	0	21.65	22.75	22.14	3.5	24.0
			1	1	25.45	26.34	25.61	0.0	27.5
			1	19	25.62	26.43	25.24	0.0	27.5
			1	36	25.51	26.23	25.40	0.0	27.5
			1	37	21.97	22.73	21.86	3.5	24.0
			18	0	24.56	25.48	24.35	1.0	26.5
			18	10	25.54	26.49	25.30	0.0	27.5
			18	20	24.61	25.37	24.27	1.0	26.5
			36	0	24.54	25.46	24.37	1.0	26.5
		16QAM	1	1	24.27	25.48	24.51	1.0	26.5
			1	19	24.61	25.72	24.89	1.0	26.5
			1	36	24.66	25.56	24.29	1.0	26.5
		64QAM	1	1	22.99	23.77	22.97	2.5	25.0
		256QAM	1	1	20.78	21.87	21.26	4.5	23.0
	CP-OFDM	QPSK	1	1	23.85	24.82	24.10	1.5	26.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					500202	518598	537000		
					2501.01 MHz	2592.99 MHz	2685.00 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.28	22.55	22.39	3.5	24.0
			1	1	25.84	26.19	26.04	0.0	27.5
			1	12	25.86	26.13	25.88	0.0	27.5
			1	22	26.24	26.31	25.83	0.0	27.5
			1	23	22.53	22.62	22.23	3.5	24.0
			12	0	25.36	25.91	25.48	0.5	27.0
			12	6	25.93	26.07	25.95	0.0	27.5
			12	12	25.59	25.59	25.40	0.5	27.0
		QPSK	24	0	25.27	25.59	25.37	0.5	27.0
			1	0	21.94	22.53	21.83	3.5	24.0
			1	1	25.41	26.09	25.36	0.0	27.5
			1	12	25.38	26.14	25.48	0.0	27.5
			1	22	25.49	26.12	25.53	0.0	27.5
			1	23	21.90	22.58	21.97	3.5	24.0
			12	0	24.43	25.07	24.45	1.0	26.5
			12	6	25.44	26.17	25.50	0.0	27.5
			12	12	24.41	25.14	24.51	1.0	26.5
			24	0	24.42	25.08	24.48	1.0	26.5
		16QAM	1	1	24.61	25.22	24.57	1.0	26.5
			1	12	24.64	24.89	24.62	1.0	26.5
			1	22	24.60	25.48	24.21	1.0	26.5
		64QAM	1	1	22.86	23.50	22.85	2.5	25.0
		256QAM	1	1	20.93	21.57	20.80	4.5	23.0
	CP-OFDM	QPSK	1	1	23.90	24.47	23.90	1.5	26.0

NR Band n66 (ANT A)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					346000 1730.00 MHz	349000 1745.00 MHz	352000 1760.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	0	23.49	23.55	23.48	0.5	25.0
			1	1	23.89	23.91	23.89	0.0	25.5
			1	107	24.06	23.74	23.40	0.0	25.5
			1	214	23.32	23.52	23.22	0.0	25.5
			1	215	22.87	22.87	22.55	0.5	25.0
			108	0	22.92	23.23	22.50	0.5	25.0
			108	54	24.05	23.72	23.44	0.0	25.5
			108	108	23.03	22.50	22.51	0.5	25.0
			216	0	23.02	22.71	22.50	0.5	25.0
		QPSK	1	0	22.96	23.03	22.90	1.0	24.5
			1	1	23.92	23.93	23.88	0.0	25.5
			1	107	23.92	23.94	23.45	0.0	25.5
			1	214	23.35	23.50	23.24	0.0	25.5
			1	215	22.43	22.36	22.13	1.0	24.5
			108	0	22.95	23.24	22.39	1.0	24.5
			108	54	23.80	23.82	23.47	0.0	25.5
			108	108	23.06	22.41	22.52	1.0	24.5
			216	0	23.06	22.71	22.45	1.0	24.5
		16QAM	1	0	22.20	21.96	21.86	2.0	23.5
			1	1	23.03	22.91	22.89	1.0	24.5
			1	107	23.23	22.76	22.49	1.0	24.5
			1	214	22.43	22.52	22.26	1.0	24.5
			1	215	21.38	21.24	21.24	2.0	23.5
			108	0	22.21	22.22	21.56	2.0	23.5
			108	54	23.22	22.84	22.52	1.0	24.5
			108	108	22.14	21.47	21.44	2.0	23.5
			216	0	22.16	21.83	21.39	2.0	23.5
		64QAM	1	1	21.53	21.50	21.59	2.5	23.0
		256QAM	1	1	19.33	19.33	19.33	4.5	21.0
	CP-OFDM	QPSK	1	0	21.23	21.04	21.10	3.0	22.5
			1	1	22.43	22.49	22.42	1.5	24.0
			1	107	22.54	22.26	21.97	1.5	24.0
			1	214	22.08	21.83	21.75	1.5	24.0
			1	215	20.54	20.39	20.20	3.0	22.5
			108	0	21.30	21.23	20.53	3.0	22.5
			108	54	22.83	22.36	22.02	1.5	24.0
			108	108	21.17	20.54	20.54	3.0	22.5
			216	0	21.25	20.86	20.45	3.0	22.5
		16QAM	1	0	21.17	21.13	21.08	3.0	22.5
			1	1	22.01	22.23	22.07	2.0	23.5
			1	107	22.20	21.76	21.45	2.0	23.5
			1	214	21.54	21.34	21.38	2.0	23.5
			1	215	20.64	20.33	20.47	3.0	22.5
			108	0	21.26	21.22	20.54	3.0	22.5
			108	54	22.26	21.93	21.52	2.0	23.5
			108	108	21.18	20.54	20.50	3.0	22.5
			216	0	21.19	20.90	20.46	3.0	22.5
		64QAM	1	1	20.65	20.68	20.42	3.5	22.0
		256QAM	1	1	17.91	17.76	17.43	6.5	19.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					345000 1725.00 MHz	349000 1745.00 MHz	353000 1765.00 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	0	23.56	23.65	23.08	0.5	25.0
			1	1	23.95	24.12	23.61	0.0	25.5
			1	79	24.16	23.91	23.70	0.0	25.5
			1	158	24.03	23.66	23.52	0.0	25.5
			1	159	23.50	22.99	22.68	0.5	25.0
			80	0	23.22	23.18	22.67	0.5	25.0
			80	40	24.15	23.90	23.71	0.0	25.5
			80	80	23.14	22.66	22.70	0.5	25.0
			160	0	23.16	22.89	22.69	0.5	25.0
		QPSK	1	0	23.12	23.10	22.50	1.0	24.5
			1	1	23.78	24.11	23.60	0.0	25.5
			1	79	24.19	23.93	23.68	0.0	25.5
			1	158	24.06	23.66	23.55	0.0	25.5
			1	159	23.07	22.45	22.24	1.0	24.5
			80	0	23.10	23.17	22.68	1.0	24.5
			80	40	24.18	23.91	23.71	0.0	25.5
			80	80	23.18	22.68	22.72	1.0	24.5
			160	0	23.20	22.90	22.71	1.0	24.5
		16QAM	1	1	22.94	23.15	22.71	1.0	24.5
			1	79	23.32	23.02	22.82	1.0	24.5
			1	158	23.22	22.66	22.65	1.0	24.5
			64QAM	1	1	21.76	21.66	21.16	2.5
		256QAM	1	1	19.78	19.63	19.07	4.5	21.0
	CP-OFDM	QPSK	1	1	22.70	22.65	22.15	1.5	24.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					344500	349000	353500		
					1722.50 MHz	1745.00 MHz	1767.50 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.79	23.55	22.89	0.5	25.0
			1	1	23.74	24.17	23.56	0.0	25.5
			1	66	24.16	23.84	23.57	0.0	25.5
			1	131	24.21	23.67	23.55	0.0	25.5
			1	132	23.85	22.89	22.84	0.5	25.0
			64	0	22.98	23.18	22.65	0.5	25.0
			64	34	24.22	23.92	23.68	0.0	25.5
			64	69	23.16	22.70	22.69	0.5	25.0
			128	0	23.21	22.94	22.68	0.5	25.0
		QPSK	1	0	23.27	23.12	22.40	1.0	24.5
			1	1	23.66	24.19	23.59	0.0	25.5
			1	66	24.14	23.84	23.60	0.0	25.5
			1	131	24.22	23.66	23.56	0.0	25.5
			1	132	23.27	22.47	22.24	1.0	24.5
			64	0	22.94	23.19	22.67	1.0	24.5
			64	34	24.22	23.94	23.68	0.0	25.5
			64	69	23.15	22.72	22.69	1.0	24.5
			128	0	23.23	22.95	22.69	1.0	24.5
		16QAM	1	1	22.93	23.22	22.56	1.0	24.5
			1	66	23.26	22.87	22.52	1.0	24.5
			1	131	23.32	22.67	22.49	1.0	24.5
		64QAM	1	1	21.77	21.68	21.06	2.5	23.0
		256QAM	1	1	19.78	19.70	19.08	4.5	21.0
	CP-OFDM	QPSK	1	1	22.62	22.66	22.12	1.5	24.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000		
					1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.44	23.69	22.82	0.5	25.0
			1	1	23.23	24.23	23.59	0.0	25.5
			1	52	23.82	23.92	23.72	0.0	25.5
			1	104	24.16	23.67	23.58	0.0	25.5
			1	105	23.65	23.04	22.90	0.5	25.0
			50	0	22.60	23.16	22.68	0.5	25.0
			50	28	23.93	23.92	23.71	0.0	25.5
			50	56	23.22	22.74	22.66	0.5	25.0
			100	0	23.11	22.94	22.69	0.5	25.0
		QPSK	1	0	23.04	23.18	22.41	1.0	24.5
			1	1	23.13	24.25	23.57	0.0	25.5
			1	52	23.75	23.94	23.73	0.0	25.5
			1	104	24.17	23.67	23.59	0.0	25.5
			1	105	23.19	22.53	22.33	1.0	24.5
			50	0	22.57	23.17	22.68	1.0	24.5
			50	28	23.90	23.92	23.71	0.0	25.5
			50	56	23.22	22.73	22.65	1.0	24.5
			100	0	23.08	22.95	22.69	1.0	24.5
		16QAM	1	1	22.40	23.29	22.62	1.0	24.5
			1	52	23.07	23.01	22.76	1.0	24.5
			1	104	23.24	22.73	22.60	1.0	24.5
		64QAM	1	1	21.25	21.70	21.19	2.5	23.0
		256QAM	1	1	19.76	19.68	19.18	4.5	21.0
	CP-OFDM	QPSK	1	1	22.13	22.68	22.16	1.5	24.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500		
					1717.50 MHz	1745.00 MHz	1772.50 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.71	23.50	22.87	0.5	25.0
			1	1	23.22	24.16	23.64	0.0	25.5
			1	39	23.88	23.81	23.57	0.0	25.5
			1	77	24.23	23.68	23.57	0.0	25.5
			1	78	23.62	22.98	22.80	0.5	25.0
			36	0	22.72	23.13	22.65	0.5	25.0
			36	21	23.98	23.91	23.66	0.0	25.5
			36	43	23.30	22.78	22.60	0.5	25.0
			75	0	23.04	22.96	22.67	0.5	25.0
		QPSK	1	0	23.15	22.95	22.36	1.0	24.5
			1	1	23.14	24.16	23.66	0.0	25.5
			1	39	23.83	23.83	23.58	0.0	25.5
			1	77	24.26	23.70	23.55	0.0	25.5
			1	78	23.21	22.48	22.23	1.0	24.5
			36	0	22.67	23.12	22.66	1.0	24.5
			36	21	23.95	23.92	23.65	0.0	25.5
			36	43	23.31	22.77	22.60	1.0	24.5
			75	0	23.02	22.96	22.66	1.0	24.5
		16QAM	1	1	22.33	23.17	22.63	1.0	24.5
			1	39	23.06	22.81	22.56	1.0	24.5
			1	77	23.28	22.73	22.55	1.0	24.5
		64QAM	1	1	21.30	21.69	21.21	2.5	23.0
		256QAM	1	1	19.77	19.65	19.18	4.5	21.0
	CP-OFDM	QPSK	1	1	21.98	22.64	22.21	1.5	24.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000		
					1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.75	23.43	22.89	0.5	25.0
			1	1	23.87	24.12	23.61	0.0	25.5
			1	25	24.00	23.88	23.57	0.0	25.5
			1	50	24.22	23.72	23.54	0.0	25.5
			1	51	23.79	23.05	22.73	0.5	25.0
			25	0	23.10	23.05	22.65	0.5	25.0
			25	13	24.11	23.92	23.61	0.0	25.5
			25	27	23.38	22.82	22.58	0.5	25.0
		QPSK	50	0	23.23	22.93	22.65	0.5	25.0
			1	0	23.18	22.95	22.37	1.0	24.5
			1	1	23.77	24.10	23.69	0.0	25.5
			1	25	23.95	23.88	23.67	0.0	25.5
			1	50	24.25	23.74	23.57	0.0	25.5
			1	51	23.29	22.50	22.32	1.0	24.5
			25	0	23.05	23.06	22.70	1.0	24.5
			25	13	24.07	23.91	23.65	0.0	25.5
			25	27	23.38	22.83	22.63	1.0	24.5
			50	0	23.20	22.94	22.67	1.0	24.5
		16QAM	1	1	22.96	23.15	22.72	1.0	24.5
			1	25	23.16	22.92	22.67	1.0	24.5
		64QAM	1	50	23.37	22.80	22.58	1.0	24.5
			1	1	21.92	21.68	21.20	2.5	23.0
		256QAM	1	1	19.90	19.64	19.19	4.5	21.0
	CP-OFDM	QPSK	1	1	22.72	22.63	22.24	1.5	24.0
5 MHz					Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500		
					1712.50 MHz	1745.00 MHz	1777.50 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.47	23.39	22.64	0.5	25.0
			1	1	24.01	24.02	23.61	0.0	25.5
			1	13	24.01	23.84	23.49	0.0	25.5
			1	23	24.04	23.84	23.55	0.0	25.5
			1	24	23.80	23.12	22.84	0.5	25.0
			12	0	23.21	22.97	22.61	0.5	25.0
			12	6	24.12	23.91	23.57	0.0	25.5
			12	13	23.26	22.86	22.59	0.5	25.0
		QPSK	25	0	23.24	22.92	22.60	0.5	25.0
			1	0	23.07	22.87	22.19	1.0	24.5
			1	1	23.92	24.04	23.62	0.0	25.5
			1	13	23.94	23.83	23.49	0.0	25.5
			1	23	23.99	23.85	23.57	0.0	25.5
			1	24	23.27	22.63	22.25	1.0	24.5
			12	0	23.17	22.97	22.61	1.0	24.5
			12	6	24.08	23.89	23.58	0.0	25.5
			12	13	23.23	22.87	22.58	1.0	24.5
			25	0	23.21	22.93	22.59	1.0	24.5
		16QAM	1	1	23.17	22.97	22.68	1.0	24.5
			1	13	23.22	22.80	22.54	1.0	24.5
		64QAM	1	23	23.29	22.80	22.67	1.0	24.5
			1	1	21.84	21.53	21.26	2.5	23.0
		256QAM	1	1	19.73	19.36	18.96	4.5	21.0
	CP-OFDM	QPSK	1	1	22.82	22.51	22.13	1.5	24.0

NR Band n66 (ANT B)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					346000	349000	352000		
					1730.00 MHz	1745.00 MHz	1760.00 MHz		
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.78	23.01	23.01	0.5	24.5
			1	1	23.33	23.80	23.36	0.0	25.0
			1	107	23.90	23.42	23.33	0.0	25.0
			1	214	23.21	23.38	23.11	0.0	25.0
			1	215	22.61	22.58	22.54	0.5	24.5
			108	0	22.61	22.81	22.30	0.5	24.5
			108	54	23.91	23.41	23.37	0.0	25.0
			108	108	22.55	22.38	22.29	0.5	24.5
		QPSK	216	0	22.88	22.40	22.35	0.5	24.5
			1	0	22.36	22.51	22.41	1.0	24.0
			1	1	23.35	23.82	23.36	0.0	25.0
			1	107	23.90	23.42	23.35	0.0	25.0
			1	214	23.23	23.38	23.12	0.0	25.0
			1	215	22.13	22.04	22.01	1.0	24.0
			108	0	22.61	22.83	22.30	1.0	24.0
			108	54	23.93	23.39	23.40	0.0	25.0
			108	108	22.55	22.39	22.30	1.0	24.0
			216	0	22.90	22.39	22.35	1.0	24.0
		16QAM	1	0	21.37	21.56	22.50	2.0	23.0
			1	1	22.34	22.69	22.37	1.0	24.0
			1	107	22.94	22.32	22.35	1.0	24.0
			1	214	22.21	22.27	22.08	1.0	24.0
			1	215	21.05	21.19	21.07	2.0	23.0
			108	0	21.45	21.65	21.22	2.0	23.0
			108	54	22.74	22.32	22.17	1.0	24.0
			108	108	21.54	21.12	21.16	2.0	23.0
			216	0	21.72	21.27	21.13	2.0	23.0
		64QAM	1	1	20.79	21.42	20.92	2.5	22.5
		256QAM	1	1	18.78	19.12	18.76	4.5	20.5
	CP-OFDM	QPSK	1	0	20.14	20.30	20.19	3.0	22.0
			1	1	21.84	22.31	21.90	1.5	23.5
			1	107	22.03	21.50	21.37	1.5	23.5
			1	214	21.51	21.38	21.23	1.5	23.5
			1	215	19.87	19.87	19.76	3.0	22.0
			108	0	20.27	20.44	19.99	3.0	22.0
			108	54	22.08	21.64	21.46	1.5	23.5
			108	108	20.32	19.93	19.90	3.0	22.0
		16QAM	216	0	20.55	20.10	19.89	3.0	22.0
			1	0	20.25	20.24	20.25	3.0	22.0
			1	1	21.13	21.45	21.23	2.0	23.0
			1	107	21.69	21.00	20.96	2.0	23.0
			1	214	20.98	20.83	20.69	2.0	23.0
			1	215	19.99	19.89	19.67	3.0	22.0
			108	0	20.28	20.46	20.00	3.0	22.0
			108	54	21.59	21.11	20.94	2.0	23.0
			108	108	20.32	19.92	19.89	3.0	22.0
			216	0	20.51	20.10	19.93	3.0	22.0
		64QAM	1	1	19.61	19.86	19.65	3.5	21.5
		256QAM	1	1	16.47	16.78	16.66	6.5	18.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					345000	349000	353000		
					1725.00 MHz	1745.00 MHz	1765.00 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.01	23.29	22.81	0.5	24.5
			1	1	23.02	23.42	22.87	0.0	25.0
			1	79	23.24	23.04	23.00	0.0	25.0
			1	158	23.15	22.90	22.82	0.0	25.0
			1	159	23.11	22.67	22.61	0.5	24.5
			80	0	22.10	22.31	22.03	0.5	24.5
			80	40	23.28	23.07	22.97	0.0	25.0
			80	80	22.43	22.05	22.05	0.5	24.5
		QPSK	160	0	22.28	22.08	22.05	0.5	24.5
			1	0	22.45	22.75	22.28	1.0	24.0
			1	1	23.08	23.38	22.90	0.0	25.0
			1	79	23.30	23.06	23.00	0.0	25.0
			1	158	23.21	22.88	22.83	0.0	25.0
			1	159	22.57	22.19	22.14	1.0	24.0
			80	0	22.15	22.33	21.93	1.0	24.0
			80	40	23.33	23.07	22.97	0.0	25.0
			80	80	22.46	21.96	21.95	1.0	24.0
			160	0	22.30	22.08	21.96	1.0	24.0
		16QAM	1	1	22.08	22.41	21.91	1.0	24.0
			1	79	22.35	22.08	21.99	1.0	24.0
			1	158	22.20	21.92	21.83	1.0	24.0
		64QAM	1	1	20.65	20.76	20.46	2.5	22.5
		256QAM	1	1	18.57	18.93	18.40	4.5	20.5
	CP-OFDM	QPSK	1	1	21.63	21.86	21.42	1.5	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					344500	349000	353500		
					1722.50 MHz	1745.00 MHz	1767.50 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.79	23.55	22.89	0.5	24.5
			1	1	23.74	24.17	23.56	0.0	25.0
			1	66	24.16	23.84	23.57	0.0	25.0
			1	131	24.21	23.67	23.55	0.0	25.0
			1	132	23.85	22.89	22.84	0.5	24.5
			64	0	22.98	23.18	22.65	0.5	24.5
			64	34	24.22	23.92	23.68	0.0	25.0
			64	69	23.16	22.70	22.69	0.5	24.5
			128	0	23.21	22.94	22.68	0.5	24.5
		QPSK	1	0	23.27	23.12	22.40	1.0	24.0
			1	1	23.66	24.19	23.59	0.0	25.0
			1	66	24.14	23.84	23.60	0.0	25.0
			1	131	24.22	23.66	23.56	0.0	25.0
			1	132	23.27	22.47	22.24	1.0	24.0
			64	0	22.94	23.19	22.67	1.0	24.0
			64	34	24.22	23.94	23.68	0.0	25.0
			64	69	23.15	22.72	22.69	1.0	24.0
			128	0	23.23	22.95	22.69	1.0	24.0
		16QAM	1	1	22.93	23.22	22.56	1.0	24.0
			1	66	23.26	22.87	22.52	1.0	24.0
			1	131	23.32	22.67	22.49	1.0	24.0
		64QAM	1	1	21.77	21.68	21.06	2.5	22.5
		256QAM	1	1	19.78	19.70	19.08	4.5	20.5
	CP-OFDM	QPSK	1	1	22.62	22.66	22.12	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000		
					1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.44	23.69	22.82	0.5	24.5
			1	1	23.23	24.23	23.59	0.0	25.0
			1	52	23.82	23.92	23.72	0.0	25.0
			1	104	24.16	23.67	23.58	0.0	25.0
			1	105	23.65	23.04	22.90	0.5	24.5
			50	0	22.60	23.16	22.68	0.5	24.5
			50	28	23.93	23.92	23.71	0.0	25.0
			50	56	23.22	22.74	22.66	0.5	24.5
			100	0	23.11	22.94	22.69	0.5	24.5
		QPSK	1	0	23.04	23.18	22.41	1.0	24.0
			1	1	23.13	24.25	23.57	0.0	25.0
			1	52	23.75	23.94	23.73	0.0	25.0
			1	104	24.17	23.67	23.59	0.0	25.0
			1	105	23.19	22.53	22.33	1.0	24.0
			50	0	22.57	23.17	22.68	1.0	24.0
			50	28	23.90	23.92	23.71	0.0	25.0
			50	56	23.22	22.73	22.65	1.0	24.0
			100	0	23.08	22.95	22.69	1.0	24.0
		16QAM	1	1	22.40	23.29	22.62	1.0	24.0
			1	52	23.07	23.01	22.76	1.0	24.0
			1	104	23.24	22.73	22.60	1.0	24.0
		64QAM	1	1	21.25	21.70	21.19	2.5	22.5
		256QAM	1	1	19.76	19.68	19.18	4.5	20.5
	CP-OFDM	QPSK	1	1	22.13	22.68	22.16	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500		
					1717.50 MHz	1745.00 MHz	1772.50 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.71	23.50	22.87	0.5	24.5
			1	1	23.22	24.16	23.64	0.0	25.0
			1	39	23.88	23.81	23.57	0.0	25.0
			1	77	24.23	23.68	23.57	0.0	25.0
			1	78	23.62	22.98	22.80	0.5	24.5
			36	0	22.72	23.13	22.65	0.5	24.5
			36	21	23.98	23.91	23.66	0.0	25.0
			36	43	23.30	22.78	22.60	0.5	24.5
			75	0	23.04	22.96	22.67	0.5	24.5
		QPSK	1	0	23.15	22.95	22.36	1.0	24.0
			1	1	23.14	24.16	23.66	0.0	25.0
			1	39	23.83	23.83	23.58	0.0	25.0
			1	77	24.26	23.70	23.55	0.0	25.0
			1	78	23.21	22.48	22.23	1.0	24.0
			36	0	22.67	23.12	22.66	1.0	24.0
			36	21	23.95	23.92	23.65	0.0	25.0
			36	43	23.31	22.77	22.60	1.0	24.0
			75	0	23.02	22.96	22.66	1.0	24.0
		16QAM	1	1	22.33	23.17	22.63	1.0	24.0
			1	39	23.06	22.81	22.56	1.0	24.0
			1	77	23.28	22.73	22.55	1.0	24.0
		64QAM	1	1	21.30	21.69	21.21	2.5	22.5
		256QAM	1	1	19.77	19.65	19.18	4.5	20.5
	CP-OFDM	QPSK	1	1	21.98	22.64	22.21	1.5	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000		
					1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.75	23.43	22.89	0.5	24.5
			1	1	23.87	24.12	23.61	0.0	25.0
			1	25	24.00	23.88	23.57	0.0	25.0
			1	50	24.30	23.72	23.54	0.0	25.0
			1	51	23.79	23.05	22.73	0.5	24.5
			25	0	23.10	23.05	22.65	0.5	24.5
			25	13	24.11	23.92	23.61	0.0	25.0
			25	27	23.38	22.82	22.58	0.5	24.5
		QPSK	50	0	23.23	22.93	22.65	0.5	24.5
			1	0	23.18	22.95	22.37	1.0	24.0
			1	1	23.77	24.10	23.69	0.0	25.0
			1	25	23.95	23.88	23.67	0.0	25.0
			1	50	24.25	23.74	23.57	0.0	25.0
			1	51	23.29	22.50	22.32	1.0	24.0
			25	0	23.05	23.06	22.70	1.0	24.0
			25	13	24.07	23.91	23.65	0.0	25.0
			25	27	23.38	22.83	22.63	1.0	24.0
			50	0	23.20	22.94	22.67	1.0	24.0
		16QAM	1	1	22.96	23.15	22.72	1.0	24.0
			1	25	23.16	22.92	22.67	1.0	24.0
		64QAM	1	50	23.37	22.80	22.58	1.0	24.0
			1	1	21.92	21.68	21.20	2.5	22.5
		256QAM	1	1	19.90	19.64	19.19	4.5	20.5
	CP-OFDM	QPSK	1	1	22.72	22.63	22.24	1.5	23.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500		
					1712.50 MHz	1745.00 MHz	1777.50 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.47	23.39	22.64	0.5	24.5
			1	1	24.01	24.02	23.61	0.0	25.0
			1	13	24.01	23.84	23.49	0.0	25.0
			1	23	24.04	23.84	23.55	0.0	25.0
			1	24	23.80	23.12	22.84	0.5	24.5
			12	0	23.21	22.97	22.61	0.5	24.5
			12	6	24.12	23.91	23.57	0.0	25.0
			12	13	23.26	22.86	22.59	0.5	24.5
		QPSK	25	0	23.24	22.92	22.60	0.5	24.5
			1	0	23.07	22.87	22.19	1.0	24.0
			1	1	23.92	24.04	23.62	0.0	25.0
			1	13	23.94	23.83	23.49	0.0	25.0
			1	23	23.99	23.85	23.57	0.0	25.0
			1	24	23.27	22.63	22.25	1.0	24.0
			12	0	23.17	22.97	22.61	1.0	24.0
			12	6	24.08	23.89	23.58	0.0	25.0
			12	13	23.23	22.87	22.58	1.0	24.0
			25	0	23.21	22.93	22.59	1.0	24.0
		16QAM	1	1	23.17	22.97	22.68	1.0	24.0
			1	13	23.22	22.80	22.54	1.0	24.0
		64QAM	1	23	23.29	22.80	22.67	1.0	24.0
			1	1	21.84	21.53	21.26	2.5	22.5
		256QAM	1	1	19.73	19.36	18.96	4.5	20.5
	CP-OFDM	QPSK	1	1	22.82	22.51	22.13	1.5	23.5

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BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)			
					Measured Pwr (dBm)		MPR	Tune-up Limit
					340500	1702.50 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.54		0.5	25.0
			1	1	23.96		0.0	25.5
			1	39	23.94		0.0	25.5
			1	77	23.98		0.0	25.5
			1	78	23.61		0.5	25.0
			36	0	23.09		0.5	25.0
			36	21	24.05		0.0	25.5
			36	43	23.02		0.5	25.0
			75	0	23.06		0.5	25.0
		QPSK	1	0	23.00		1.0	24.5
			1	1	23.97		0.0	25.5
			1	39	23.94		0.0	25.5
			1	77	23.98		0.0	25.5
			1	78	23.18		1.0	24.5
			36	0	23.11		1.0	24.5
			36	21	24.07		0.0	25.5
			36	43	23.02		1.0	24.5
			75	0	23.08		1.0	24.5
		16QAM	1	0	22.16		2.0	23.5
			1	1	23.01		1.0	24.5
			1	39	22.97		1.0	24.5
			1	77	22.98		1.0	24.5
			1	78	22.13		2.0	23.5
			36	0	22.12		2.0	23.5
			36	21	23.16		1.0	24.5
			36	43	22.20		2.0	23.5
			75	0	22.13		2.0	23.5
		64QAM	1	1	21.58		2.5	23.0
		256QAM	1	1	19.47		4.5	21.0
	CP-OFDM	QPSK	1	0	21.19		3.0	22.5
			1	1	22.51		1.5	24.0
			1	39	22.65		1.5	24.0
			1	77	22.76		1.5	24.0
			1	78	21.21		3.0	22.5
			36	0	21.16		3.0	22.5
			36	21	22.62		1.5	24.0
			36	43	21.21		3.0	22.5
		16QAM	75	0	21.12		3.0	22.5
			1	0	21.27		3.0	22.5
			1	1	22.03		2.0	23.5
			1	39	21.94		2.0	23.5
			1	77	22.41		2.0	23.5
			1	78	21.20		3.0	22.5
			36	0	21.11		3.0	22.5
			36	21	22.06		2.0	23.5
			36	43	21.20		3.0	22.5
			75	0	21.18		3.0	22.5
		64QAM	1	1	20.75		3.5	22.0
		256QAM	1	1	17.78		6.5	19.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					340000	340500	341000		
					1700.00 MHz	1702.50 MHz	1705.00 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.51	23.56	23.49	0.5	25.0
			1	1	24.22	24.19	24.26	0.0	25.5
			1	25	24.14	24.13	24.25	0.0	25.5
			1	50	24.14	24.19	24.30	0.0	25.5
			1	51	23.59	23.69	23.66	0.5	25.0
			25	0	23.23	23.19	23.27	0.5	25.0
			25	13	24.18	24.17	24.25	0.0	25.5
			25	27	23.18	23.19	23.30	0.5	25.0
		QPSK	50	0	23.18	23.17	23.25	0.5	25.0
			1	0	23.00	23.09	22.97	1.0	24.5
			1	1	24.26	24.21	24.27	0.0	25.5
			1	25	24.16	24.17	24.26	0.0	25.5
			1	50	24.17	24.22	24.31	0.0	25.5
			1	51	23.07	23.09	23.14	1.0	24.5
			25	0	23.26	23.21	23.29	1.0	24.5
			25	13	24.20	24.17	24.26	0.0	25.5
			25	27	23.20	23.20	23.31	1.0	24.5
			50	0	23.21	23.19	23.27	1.0	24.5
		16QAM	1	1	23.32	23.29	23.26	1.0	24.5
			1	25	23.26	23.27	23.31	1.0	24.5
			1	50	23.16	23.34	23.34	1.0	24.5
		64QAM	1	1	21.81	21.82	21.86	2.5	23.0
		256QAM	1	1	19.80	19.78	19.72	4.5	21.0
	CP-OFDM	QPSK	1	1	22.75	22.76	22.76	1.5	24.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					339500	340500	341500		
					1697.50 MHz	1702.50 MHz	1707.50 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.69	23.35	23.58	0.5	25.0
			1	1	24.33	24.20	24.26	0.0	25.5
			1	12	24.22	24.14	24.22	0.0	25.5
			1	23	24.25	24.22	24.31	0.0	25.5
			1	24	23.50	23.65	23.63	0.5	25.0
			12	0	23.34	23.20	23.30	0.5	25.0
			12	6	24.29	24.17	24.31	0.0	25.5
			12	13	23.29	23.20	23.30	0.5	25.0
		QPSK	25	0	23.32	23.20	23.32	0.5	25.0
			1	0	23.10	22.91	22.99	1.0	24.5
			1	1	24.33	24.22	24.28	0.0	25.5
			1	12	24.22	24.13	24.22	0.0	25.5
			1	23	24.26	24.21	24.32	0.0	25.5
			1	24	23.02	23.10	23.09	1.0	24.5
			12	0	23.36	23.20	23.30	1.0	24.5
			12	6	24.31	24.18	24.29	0.0	25.5
			12	13	23.28	23.20	23.32	1.0	24.5
			25	0	23.33	23.21	23.32	1.0	24.5
		16QAM	1	1	23.27	23.20	23.37	1.0	24.5
			1	12	23.16	23.11	23.37	1.0	24.5
			1	23	23.19	23.22	23.43	1.0	24.5
		64QAM	1	1	21.78	21.67	21.87	2.5	23.0
		256QAM	1	1	19.83	19.67	19.77	4.5	21.0
	CP-OFDM	QPSK	1	1	22.86	22.71	22.80	1.5	24.0

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BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					134600 673.00 MHz	136100 680.50 MHz	137600 688.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	0	22.51	22.59	22.64	0.5	25.0
			1	1	24.23	24.35	24.49	0.0	25.5
			1	52	24.41	24.55	24.47	0.0	25.5
			1	104	24.36	24.26	24.18	0.0	25.5
			1	105	22.70	22.75	22.90	0.5	25.0
			50	0	23.33	23.46	23.46	0.5	25.0
			50	28	24.39	24.50	24.38	0.0	25.5
			50	56	23.44	23.43	23.21	0.5	25.0
		100	0	23.38	23.51	23.39	0.5	25.0	
		QPSK	1	0	22.04	22.09	22.15	1.0	24.5
			1	1	24.26	24.33	24.46	0.0	25.5
			1	52	24.45	24.57	24.43	0.0	25.5
			1	104	24.42	24.25	24.14	0.0	25.5
			1	105	22.29	22.31	22.36	1.0	24.5
			50	0	23.35	23.48	23.48	1.0	24.5
			50	28	24.42	24.50	24.37	0.0	25.5
			50	56	23.48	23.44	23.22	1.0	24.5
			100	0	23.40	23.52	23.40	1.0	24.5
			16QAM	1	0	21.06	21.06	21.18	2.0
		1		1	23.33	23.43	23.48	1.0	24.5
		1		52	23.60	23.67	23.46	1.0	24.5
		1		104	23.46	23.34	23.19	1.0	24.5
		1		105	21.38	21.59	21.16	2.0	23.5
		50		0	21.01	21.07	21.28	2.0	23.5
		50		28	22.08	22.26	22.35	1.0	24.5
		50		56	21.24	21.30	21.47	2.0	23.5
		100		0	21.11	21.26	21.40	2.0	23.5
		64QAM		1	1	21.83	21.90	22.06	2.5
		256QAM	1	1	19.79	19.92	19.94	4.5	21.0
	CP-OFDM	QPSK	1	0	20.03	20.02	20.09	3.0	22.5
			1	1	22.82	22.92	23.03	1.5	24.0
			1	52	21.63	21.55	21.84	1.5	24.0
			1	104	21.78	21.73	21.80	1.5	24.0
			1	105	20.34	20.28	20.30	3.0	22.5
			50	0	20.08	20.10	20.26	3.0	22.5
			50	28	21.56	21.68	21.80	1.5	24.0
			50	56	20.12	20.25	20.41	3.0	22.5
			100	0	20.10	20.18	20.34	3.0	22.5
		16QAM	1	0	20.03	20.05	20.24	3.0	22.5
			1	1	21.05	21.09	21.02	2.0	23.5
			1	52	21.09	21.17	21.38	2.0	23.5
			1	104	21.24	21.33	21.37	2.0	23.5
			1	105	20.20	20.30	20.30	3.0	22.5
			50	0	20.07	20.07	20.28	3.0	22.5
			50	28	21.10	21.22	21.32	2.0	23.5
			50	56	20.24	20.25	20.46	3.0	22.5
			100	0	20.07	20.23	20.33	3.0	22.5
		64QAM	1	1	20.07	19.58	19.56	3.5	22.0
		256QAM	1	1	16.60	16.60	16.66	6.5	19.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					134100 670.50 MHz	136100 680.50 MHz	138100 690.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	0	22.54	22.60	22.78	0.5	25.0
			1	1	23.12	23.30	23.54	0.0	25.5
			1	39	23.11	23.45	23.55	0.0	25.5
			1	76	23.37	23.60	23.59	0.0	25.5
			1	77	22.70	22.91	22.93	0.5	25.0
			36	0	22.67	22.52	22.60	0.5	25.0
			36	21	23.22	23.51	23.64	0.0	25.5
			36	42	22.51	22.57	22.67	0.5	25.0
		QPSK	75	0	22.52	22.51	22.66	0.5	25.0
			1	0	22.01	22.05	22.29	1.0	24.5
			1	1	23.10	23.33	23.53	0.0	25.5
			1	39	23.13	23.44	23.53	0.0	25.5
			1	76	23.39	23.62	23.59	0.0	25.5
			1	77	22.22	22.36	22.39	1.0	24.5
			36	0	22.18	22.43	22.59	1.0	24.5
			36	21	23.23	23.50	23.65	0.0	25.5
			36	43	22.34	22.58	22.68	1.0	24.5
		16QAM	75	0	22.23	22.53	22.65	1.0	24.5
			1	1	22.16	22.39	22.53	1.0	24.5
			1	39	22.14	22.47	22.54	1.0	24.5
			1	77	22.45	22.64	22.56	1.0	24.5
		64QAM	1	1	20.74	20.92	21.06	2.5	23.0
		256QAM	1	1	18.63	18.86	19.03	4.5	21.0
	CP-OFDM	QPSK	1	1	21.71	21.83	22.11	1.5	24.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					133600	136100	138600		
					668.00 MHz	680.50 MHz	693.00 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.58	22.63	22.94	0.5	25.0
			1	1	23.16	23.38	23.62	0.0	25.5
			1	26	23.28	23.58	23.72	0.0	25.5
			1	49	23.27	23.55	23.60	0.0	25.5
			1	50	22.70	22.80	23.00	0.5	25.0
			25	0	22.52	22.55	22.65	0.5	25.0
			25	13	23.26	23.50	23.64	0.0	25.5
			25	26	22.57	22.58	22.65	0.5	25.0
			50	0	22.55	22.51	22.68	0.5	25.0
		QPSK	1	0	22.05	22.19	22.43	1.0	24.5
			1	1	23.21	23.43	23.62	0.0	25.5
			1	26	23.35	23.64	23.73	0.0	25.5
			1	49	23.32	23.58	23.60	0.0	25.5
			1	50	22.12	22.34	22.43	1.0	24.5
			25	0	22.22	22.46	22.64	1.0	24.5
			25	13	23.24	23.51	23.67	0.0	25.5
			25	26	22.28	22.57	22.65	1.0	24.5
			50	0	22.25	22.52	22.67	1.0	24.5
		16QAM	1	1	22.22	22.40	22.72	1.0	24.5
			1	26	22.36	22.68	22.93	1.0	24.5
			1	49	22.35	22.58	22.68	1.0	24.5
		64QAM	1	1	20.78	20.99	21.14	2.5	23.0
		256QAM	1	1	18.71	18.88	19.11	4.5	21.0
	CP-OFDM	QPSK	1	1	21.72	21.93	22.16	1.5	24.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					133100	136100	139100		
					665.50 MHz	680.50 MHz	695.50 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.55	22.69	22.96	0.5	25.0
			1	1	23.22	23.43	23.68	0.0	25.5
			1	13	23.16	23.42	23.58	0.0	25.5
			1	23	23.26	23.54	23.65	0.0	25.5
			1	24	22.69	22.81	23.02	0.5	25.0
			12	0	22.53	22.59	22.70	0.5	25.0
			12	6	23.23	23.51	23.68	0.0	25.5
			12	13	22.54	22.55	22.66	0.5	25.0
			25	0	22.54	22.52	22.68	0.5	25.0
		QPSK	1	0	22.08	22.23	22.50	1.0	24.5
			1	1	23.24	23.44	23.67	0.0	25.5
			1	13	23.16	23.41	23.57	0.0	25.5
			1	23	23.28	23.55	23.65	0.0	25.5
			1	24	22.05	22.36	22.55	1.0	24.5
			12	0	22.23	22.48	22.70	1.0	24.5
			12	6	23.23	23.50	23.67	0.0	25.5
			12	13	22.26	22.54	22.67	1.0	24.5
			25	0	22.25	22.52	22.70	1.0	24.5
		16QAM	1	1	22.27	22.54	22.73	1.0	24.5
			1	13	22.19	22.54	22.60	1.0	24.5
			1	23	22.30	22.67	22.74	1.0	24.5
		64QAM	1	1	20.76	21.15	21.23	2.5	23.0
		256QAM	1	1	18.68	18.98	19.20	4.5	21.0
	CP-OFDM	QPSK	1	1	21.80	21.95	22.24	1.5	24.0

NR Band n77(PC2, 3450-3550 MHz)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					633332	3499.98 MHz			
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0		23.52		3.5	24.5
			1	1		27.21		0.0	28.0
			1	136		27.39		0.0	28.0
			1	271		26.38		0.0	28.0
			1	272		22.67		3.5	24.5
			135	0		26.91		0.5	27.5
			135	69		27.49		0.0	28.0
			135	138		26.67		0.5	27.5
		QPSK	270	0		26.99		0.5	27.5
			1	0		23.39		3.5	24.5
			1	1		27.09		0.0	28.0
			1	136		27.31		0.0	28.0
			1	271		26.25		0.0	28.0
			1	272		22.61		3.5	24.5
			135	0		26.33		1.0	27.0
			135	69		27.40		0.0	28.0
			135	138		26.07		1.0	27.0
		16QAM	270	0		26.40		1.0	27.0
			1	0		23.51		3.5	24.5
			1	1		26.21		1.0	27.0
			1	136		26.35		1.0	27.0
			1	271		25.39		1.0	27.0
			1	272		22.70		3.5	24.5
			135	0		25.30		2.0	26.0
			135	69		26.36		1.0	27.0
			135	138		25.05		2.0	26.0
		64QAM	270	0		25.38		2.0	26.0
			1	1		24.56		2.5	25.5
	CP-OFDM	256QAM	1	1		22.73		4.5	23.5
			1	0		23.49		3.5	24.5
		QPSK	1	0		23.49		3.5	24.5
			1	1		25.69		1.5	26.5
			1	136		25.81		1.5	26.5
			1	271		24.76		1.5	26.5
			1	272		22.62		3.5	24.5
			135	0		24.32		3.0	25.0
			135	69		25.92		1.5	26.5
			135	138		24.04		3.0	25.0
		16QAM	270	0		24.33		3.0	25.0
			1	0		23.50		3.5	24.5
			1	1		25.17		2.0	26.0
			1	136		25.40		2.0	26.0
			1	271		24.33		2.0	26.0
			1	272		22.57		3.5	24.5
			135	0		24.37		3.0	25.0
			135	69		25.42		2.0	26.0
			135	138		24.09		3.0	25.0
		64QAM	270	0		24.33		3.0	25.0
			1	1		23.48		3.5	24.5
		256QAM	1	1		20.40		6.5	21.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					633000	633332	633666		
					3495.00 MHz	3499.98 MHz	3504.99MHz		
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0		23.10	22.37	3.5	24.5
			1	1		27.46	27.09	0.0	28.0
			1	123		27.80	27.60	0.0	28.0
			1	243		27.85	26.89	0.0	28.0
			1	244		24.03	22.97	3.5	24.5
			120	0		26.93	26.13	0.5	27.5
			120	63		27.94	27.38	0.0	28.0
			120	125		26.99	26.42	0.5	27.5
		QPSK	243	0		27.28	26.24	0.5	27.5
			1	0		23.72	22.99	3.5	24.5
			1	1		27.38	26.97	0.0	28.0
			1	123		27.92	27.34	0.0	28.0
			1	243		27.75	26.79	0.0	28.0
			1	244		23.96	22.76	3.5	24.5
			120	0		26.75	26.27	1.0	27.0
			120	63		27.88	27.30	0.0	28.0
			120	125		26.81	26.26	1.0	27.0
		16QAM	243	0		26.89	26.39	1.0	27.0
			1	1		26.38	26.11	1.0	27.0
			1	123		26.98	26.33	1.0	27.0
			1	243		26.49	25.54	1.0	27.0
		64QAM	1	1		24.75	24.56	2.5	25.5
	CP-OFDM	256QAM	1	1		22.82	22.16	4.5	23.5
		QPSK	1	1		25.90	25.54	1.5	26.5
			1	1		25.90	25.54	1.5	26.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					632668	633332	634000		
					3490.02 MHz	3499.98 MHz	3510.00 MHz		
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.74	23.31	22.63	3.5	24.5
			1	1	27.47	27.27	26.47	0.0	28.0
			1	108	27.82	27.34	27.22	0.0	28.0
			1	215	27.80	26.99	25.97	0.0	28.0
			1	216	24.11	23.21	22.41	3.5	24.5
			108	0	26.86	26.28	26.22	0.5	27.5
			108	54	27.80	27.32	27.07	0.0	28.0
			108	108	27.10	26.66	25.73	0.5	27.5
			216	0	27.31	26.18	25.83	0.5	27.5
		QPSK	1	0	23.93	23.13	22.77	3.5	24.5
			1	1	27.42	26.91	26.53	0.0	28.0
			1	108	27.92	27.47	27.19	0.0	28.0
			1	215	27.90	26.90	25.85	0.0	28.0
			1	216	24.23	23.40	22.35	3.5	24.5
			108	0	26.75	26.09	25.99	1.0	27.0
			108	54	27.92	27.50	26.79	0.0	28.0
			108	109	26.93	26.17	25.70	1.0	27.0
			216	0	26.92	26.31	25.88	1.0	27.0
		16QAM	1	1	26.54	26.00	25.49	1.0	27.0
			1	108	26.86	26.55	25.85	1.0	27.0
			1	215	26.93	25.86	24.93	1.0	27.0
		64QAM	1	1	24.75	24.44	23.71	2.5	25.5
		256QAM	1	1	22.82	22.20	22.00	4.5	23.5
	CP-OFDM	QPSK	1	1	25.96	25.44	24.90	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					632334	633332	634332		
					3485.01 MHz	3499.98 MHz	3514.98 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.65	23.51	22.95	3.5	24.5
			1	1	27.35	26.91	26.47	0.0	28.0
			1	94	27.88	27.47	27.03	0.0	28.0
			1	187	27.89	27.18	25.94	0.0	28.0
			1	188	24.39	23.46	22.61	3.5	24.5
			90	0	26.68	26.38	26.17	0.5	27.5
			90	49	27.89	27.41	27.08	0.0	28.0
			90	99	26.92	26.70	25.57	0.5	27.5
			180	0	27.13	26.21	26.04	0.5	27.5
		QPSK	1	0	23.71	23.21	22.86	3.5	24.5
			1	1	27.32	26.99	26.60	0.0	28.0
			1	94	27.82	27.50	26.76	0.0	28.0
			1	187	27.89	27.02	26.00	0.0	28.0
			1	188	24.38	23.42	22.45	3.5	24.5
			90	0	26.72	26.13	25.75	1.0	27.0
			90	49	27.85	27.50	27.16	0.0	28.0
			90	99	26.84	26.40	25.61	1.0	27.0
			180	0	26.92	26.47	25.68	1.0	27.0
		16QAM	1	1	26.32	25.89	25.70	1.0	27.0
			1	94	27.00	26.06	25.75	1.0	27.0
			1	187	26.79	26.18	25.04	1.0	27.0
		64QAM	1	1	24.70	24.72	23.61	2.5	25.5
		256QAM	1	1	22.85	22.44	22.19	4.5	23.5
	CP-OFDM	QPSK	1	1	25.95	25.85	24.79	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					632000	633332	634666		
					3480.00 MHz	3499.98 MHz	3519.99 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.81	23.45	23.13	3.5	24.5
			1	1	27.40	27.19	26.66	0.0	28.0
			1	80	27.93	27.48	27.19	0.0	28.0
			1	160	27.94	27.05	26.04	0.0	28.0
			1	161	24.34	23.66	22.48	3.5	24.5
			81	0	26.68	26.36	26.02	0.5	27.5
			81	40	27.89	27.57	27.19	0.0	28.0
			81	81	26.86	26.54	25.53	0.5	27.5
			162	0	26.87	26.10	25.65	0.5	27.5
		QPSK	1	0	23.69	23.59	23.02	3.5	24.5
			1	1	27.32	27.14	26.79	0.0	28.0
			1	80	27.97	27.52	27.03	0.0	28.0
			1	160	27.83	26.87	25.77	0.0	28.0
			1	161	24.34	23.62	22.39	3.5	24.5
			81	0	26.63	26.26	25.79	1.0	27.0
			81	40	27.97	27.51	26.99	0.0	28.0
			81	81	26.85	26.26	25.69	1.0	27.0
			162	0	26.86	26.24	26.02	1.0	27.0
		16QAM	1	1	26.67	26.17	25.79	1.0	27.0
			1	80	26.95	26.34	25.40	1.0	27.0
			1	160	26.85	26.35	24.74	1.0	27.0
		64QAM	1	1	24.81	24.59	23.50	2.5	25.5
		256QAM	1	1	22.74	22.84	21.79	4.5	23.5
	CP-OFDM	QPSK	1	1	25.77	25.69	24.71	1.5	26.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					631668	633332	635000		
					3475.02 MHz	3499.98 MHz	3525.00 MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.74	23.48	23.16	3.5	24.5
			1	1	27.44	27.17	26.77	0.0	28.0
			1	66	27.80	27.38	26.89	0.0	28.0
			1	131	27.82	27.22	25.90	0.0	28.0
			1	132	24.43	23.69	22.28	3.5	24.5
			64	0	26.55	26.40	25.86	0.5	27.5
			64	34	27.83	27.53	26.85	0.0	28.0
			64	69	26.86	26.43	25.80	0.5	27.5
		QPSK	128	0	26.87	26.12	25.94	0.5	27.5
			1	0	23.83	23.69	23.32	3.5	24.5
			1	1	27.45	27.45	26.65	0.0	28.0
			1	66	27.86	27.60	26.73	0.0	28.0
			1	131	27.92	27.23	25.97	0.0	28.0
			1	132	24.39	23.53	22.47	3.5	24.5
			64	0	26.65	26.14	25.99	1.0	27.0
			64	34	27.80	27.27	26.83	0.0	28.0
			64	69	26.85	26.31	25.36	1.0	27.0
			128	0	26.68	26.31	25.85	1.0	27.0
		16QAM	1	1	26.46	26.42	25.59	1.0	27.0
			1	66	26.58	25.93	25.90	1.0	27.0
			1	131	26.97	25.97	25.18	1.0	27.0
		64QAM	1	1	24.49	25.11	23.47	2.5	25.5
		256QAM	1	1	22.59	22.49	21.94	4.5	23.5
	CP-OFDM	QPSK	1	1	25.97	25.83	24.80	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					631334	633332	635332		
					3470.01 MHz	3499.98 MHz	3529.98 MHz		
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.69	23.69	23.06	3.5	24.5
			1	1	27.25	26.77	26.55	0.0	28.0
			1	52	27.75	27.59	26.87	0.0	28.0
			1	104	27.89	27.39	26.90	0.0	28.0
			1	105	24.38	23.98	22.71	3.5	24.5
			50	0	26.47	26.53	26.05	0.5	27.5
			50	28	27.78	27.53	26.86	0.0	28.0
			50	56	26.73	26.52	25.65	0.5	27.5
		QPSK	100	0	26.68	26.30	25.99	0.5	27.5
			1	0	23.84	23.76	23.34	3.5	24.5
			1	1	27.43	27.50	26.88	0.0	28.0
			1	52	27.73	27.50	26.69	0.0	28.0
			1	104	27.97	27.35	26.09	0.0	28.0
			1	105	24.42	23.90	22.45	3.5	24.5
			50	0	26.64	26.22	25.87	1.0	27.0
			50	28	27.75	27.32	26.57	0.0	28.0
			50	56	26.99	26.45	25.53	1.0	27.0
			100	0	26.72	26.41	25.71	1.0	27.0
		16QAM	1	1	26.62	26.46	25.66	1.0	27.0
			1	52	26.63	26.25	25.89	1.0	27.0
			1	104	26.81	26.22	24.92	1.0	27.0
		64QAM	1	1	24.87	25.02	23.81	2.5	25.5
		256QAM	1	1	22.71	22.96	22.38	4.5	23.5
	CP-OFDM	QPSK	1	1	25.91	26.08	25.02	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					631000	633332	635668		
					3465.00 MHz	3499.98 MHz	3535.02 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.85	24.06	23.26	3.5	24.5
			1	1	27.44	27.73	26.76	0.0	28.0
			1	39	27.57	27.34	26.80	0.0	28.0
			1	76	27.94	27.66	25.98	0.0	28.0
			1	77	24.27	23.97	22.46	3.5	24.5
			36	0	27.09	27.00	26.11	0.5	27.5
			36	21	27.67	27.83	26.74	0.0	28.0
			36	42	27.35	27.13	26.04	0.5	27.5
		QPSK	75	0	27.17	27.16	26.34	0.5	27.5
			1	0	23.74	23.80	23.18	3.5	24.5
			1	1	27.29	27.52	26.77	0.0	28.0
			1	39	27.55	27.58	26.78	0.0	28.0
			1	76	27.97	27.35	25.96	0.0	28.0
			1	77	24.22	23.66	22.48	3.5	24.5
			36	0	26.49	26.34	25.53	1.0	27.0
			36	21	27.57	27.18	26.74	0.0	28.0
			36	42	26.64	26.46	25.19	1.0	27.0
			75	0	26.57	26.30	25.65	1.0	27.0
		16QAM	1	1	26.40	25.56	24.72	1.0	27.0
			1	39	26.37	26.08	25.45	1.0	27.0
			1	76	26.60	26.56	25.04	1.0	27.0
		64QAM	1	1	24.49	24.97	23.62	2.5	25.5
		256QAM	1	1	22.72	23.01	22.40	4.5	23.5
	CP-OFDM	QPSK	1	1	25.91	26.15	25.13	1.5	26.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					630834	633332	635832		
					3462.51 MHz	3499.98 MHz	3537.48 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.73	23.68	22.75	3.5	24.5
			1	1	27.21	27.39	26.35	0.0	28.0
			1	32	27.25	27.15	26.29	0.0	28.0
			1	63	27.47	27.31	25.75	0.0	28.0
			1	64	23.95	23.42	22.06	3.5	24.5
			32	0	26.56	26.20	25.62	0.5	27.5
			32	16	27.60	27.25	26.27	0.0	28.0
			32	33	26.57	26.48	25.35	0.5	27.5
			64	0	26.32	25.90	25.35	0.5	27.5
		QPSK	1	0	23.77	23.65	23.29	3.5	24.5
			1	1	27.40	27.43	26.55	0.0	28.0
			1	32	27.56	27.57	26.55	0.0	28.0
			1	63	27.94	27.05	25.81	0.0	28.0
			1	64	24.33	23.50	22.41	3.5	24.5
			32	0	26.58	26.52	25.63	1.0	27.0
			32	16	27.45	27.26	26.65	0.0	28.0
			32	33	26.54	26.17	25.37	1.0	27.0
			64	0	26.46	26.07	25.51	1.0	27.0
		16QAM	1	1	26.52	26.38	25.44	1.0	27.0
			1	32	26.45	26.08	25.49	1.0	27.0
			1	63	26.64	26.44	25.11	1.0	27.0
		64QAM	1	1	24.87	24.78	23.58	2.5	25.5
		256QAM	1	1	22.73	22.90	21.93	4.5	23.5
	CP-OFDM	QPSK	1	1	25.90	26.04	24.78	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					630668	633332	636000		
					3460.02 MHz	3499.98 MHz	3540.00 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	24.02	23.87	22.94	3.5	24.5
			1	1	27.57	27.93	26.80	0.0	28.0
			1	26	27.61	27.14	26.71	0.0	28.0
			1	49	27.66	27.38	26.18	0.0	28.0
			1	50	24.15	23.82	22.60	3.5	24.5
			25	0	27.13	27.03	26.06	0.5	27.5
			25	13	27.68	27.72	26.47	0.0	28.0
			25	26	27.31	27.04	26.11	0.5	27.5
			50	0	27.26	27.01	25.82	0.5	27.5
		QPSK	1	0	23.83	23.86	23.07	3.5	24.5
			1	1	27.37	27.36	26.60	0.0	28.0
			1	26	27.35	27.27	26.25	0.0	28.0
			1	49	27.75	27.43	26.12	0.0	28.0
			1	50	24.00	23.84	22.30	3.5	24.5
			25	0	26.51	26.23	25.37	1.0	27.0
			25	13	27.48	27.37	26.48	0.0	28.0
			25	26	26.53	26.36	25.18	1.0	27.0
			50	0	26.50	26.44	25.39	1.0	27.0
		16QAM	1	1	26.69	26.69	25.65	1.0	27.0
			1	26	26.38	26.45	25.09	1.0	27.0
			1	49	26.74	26.62	24.90	1.0	27.0
		64QAM	1	1	24.68	24.46	23.86	2.5	25.5
		256QAM	1	1	22.91	22.60	22.14	4.5	23.5
	CP-OFDM	QPSK	1	1	25.98	25.98	25.21	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					630500	633332	636168		
					3457.5 MHz	3499.98 MHz	3542.52 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	24.00	23.76	23.09	3.5	24.5
			1	1	27.48	27.82	26.45	0.0	28.0
			1	19	27.39	27.34	26.58	0.0	28.0
			1	36	27.63	27.69	25.87	0.0	28.0
			1	37	24.17	23.90	22.73	3.5	24.5
			18	0	27.05	27.03	25.95	0.5	27.5
			18	10	27.63	27.47	26.63	0.0	28.0
			18	20	27.14	27.19	25.69	0.5	27.5
			36	0	27.21	26.90	25.79	0.5	27.5
		QPSK	1	0	23.81	23.95	22.85	3.5	24.5
			1	1	27.42	27.39	26.52	0.0	28.0
			1	19	27.44	27.48	26.48	0.0	28.0
			1	36	27.50	27.27	25.91	0.0	28.0
			1	37	23.97	23.65	22.25	3.5	24.5
			18	0	26.48	26.41	25.48	1.0	27.0
			18	10	27.49	27.29	26.44	0.0	28.0
			18	20	26.54	26.29	25.23	1.0	27.0
			36	0	26.58	26.25	25.49	1.0	27.0
		16QAM	1	1	26.53	26.67	25.39	1.0	27.0
			1	19	26.37	26.43	25.16	1.0	27.0
			1	36	26.57	26.23	24.97	1.0	27.0
		64QAM	1	1	24.76	24.73	23.45	2.5	25.5
		256QAM	1	1	22.93	22.88	21.94	4.5	23.5
	CP-OFDM	QPSK	1	1	26.04	25.85	25.15	1.5	26.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					630334	633332	636332		
					3455.01 MHz	3499.98 MHz	3544.98 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	24.03	24.06	23.16	3.5	24.5
			1	1	27.49	27.37	26.60	0.0	28.0
			1	12	27.57	27.41	26.42	0.0	28.0
			1	22	27.53	27.50	26.09	0.0	28.0
			1	23	23.94	24.03	22.61	3.5	24.5
			12	0	27.08	27.09	25.69	0.5	27.5
			12	6	27.51	27.33	26.14	0.0	28.0
			12	12	27.02	26.99	25.83	0.5	27.5
			24	0	27.12	27.04	25.82	0.5	27.5
		QPSK	1	0	23.89	23.93	22.85	3.5	24.5
			1	1	27.47	27.45	26.32	0.0	28.0
			1	12	27.54	27.44	26.17	0.0	28.0
			1	22	27.57	27.38	26.04	0.0	28.0
			1	23	23.93	23.82	22.47	3.5	24.5
			12	0	26.48	26.50	25.32	1.0	27.0
			12	6	27.51	27.45	26.24	0.0	28.0
			12	12	26.53	26.40	25.15	1.0	27.0
			24	0	26.49	26.44	25.21	1.0	27.0
		16QAM	1	1	26.55	26.68	25.38	1.0	27.0
			1	12	26.45	26.35	25.38	1.0	27.0
			1	22	26.47	26.32	24.96	1.0	27.0
		64QAM	1	1	24.73	24.98	23.81	2.5	25.5
		256QAM	1	1	23.00	22.97	21.95	4.5	23.5
	CP-OFDM	QPSK	1	1	25.96	26.06	24.91	1.5	26.5

NR Band n77 (PC2, 3450-3550 MHz, SRS)

Maximum Average Power (dBm) SRS1			Tune-up Limit	Maximum Average Power (dBm) SRS2			Tune-up Limit	Maximum Average Power (dBm) SRS3			Tune-up Limit
			22.0				21.0				20.0
BW (MHz)	Measured Pwr (dBm)			BW (MHz)	Measured Pwr (dBm)			BW (MHz)	Measured Pwr (dBm)		
100 MHz		633332		100 MHz		633332		100 MHz		633332	
		3499.98 MHz				3499.98 MHz				3499.98 MHz	
		20.70				19.17				19.80	
90 MHz	633000	633332	633666	90 MHz	633000	633332	633666	90 MHz	633000	633332	633666
	3495 MHz	3499.98 MHz	3504.99 MHz		3495 MHz	3499.98 MHz	3504.99 MHz		3495 MHz	3499.98 MHz	3504.99 MHz
	20.51	20.59	20.68		19.16	19.24	19.36		18.98	18.99	19.08
80 MHz	632668	633332	634000	80 MHz	632668	633332	634000	80 MHz	632668	633332	634000
	3490.02 MHz	3499.98 MHz	3510 MHz		3490.02 MHz	3499.98 MHz	3510 MHz		3490.02 MHz	3499.98 MHz	3510 MHz
	20.45	20.59	20.85		19.15	19.25	19.55		19.85	19.82	19.90
70 MHz	632334	633332	634332	70 MHz	632334	633332	634332	70 MHz	632334	633332	634332
	3485.01 MHz	3499.98 MHz	3514.98 MHz		3485.01 MHz	3499.98 MHz	3514.98 MHz		3485.01 MHz	3499.98 MHz	3514.98 MHz
	20.35	20.69	21.06		19.18	19.55	19.73		18.90	19.04	19.29
60 MHz	632000	633332	634666	60 MHz	632000	633332	634666	60 MHz	632000	633332	634666
	3480 MHz	3499.98 MHz	3519.99 MHz		3480 MHz	3499.98 MHz	3519.99 MHz		3480 MHz	3499.98 MHz	3519.99 MHz
	20.31	20.70	21.25		19.17	19.37	19.96		19.09	19.15	19.52
50 MHz	631668	633332	635000	50 MHz	631668	633332	635000	50 MHz	631668	633332	635000
	3475.02 MHz	3499.98 MHz	3525 MHz		3475.02 MHz	3499.98 MHz	3525 MHz		3475.02 MHz	3499.98 MHz	3525 MHz
	20.30	20.75	21.22		19.05	19.48	20.18		19.11	19.22	19.50
40 MHz	631334	633332	635332	40 MHz	631334	633332	635332	40 MHz	631334	633332	635332
	3470.01 MHz	3499.98 MHz	3529.98 MHz		3470.01 MHz	3499.98 MHz	3529.98 MHz		3470.01 MHz	3499.98 MHz	3529.98 MHz
	20.34	20.81	21.27		19.13	19.55	20.22		19.65	19.86	19.97
30 MHz	631000	633332	635666	30 MHz	631000	633332	635666	30 MHz	631000	633332	635666
	3465 MHz	3499.98 MHz	3534.99 MHz		3465 MHz	3499.98 MHz	3534.99 MHz		3465 MHz	3499.98 MHz	3534.99 MHz
	20.37	20.90	21.33		19.18	19.68	20.38		19.29	19.34	19.67
25 MHz	630834	633332	635832	25 MHz	630834	633332	635832	25 MHz	630834	633332	635832
	3462.51 MHz	3499.98 MHz	3537.48 MHz		3462.51 MHz	3499.98 MHz	3537.48 MHz		3462.51 MHz	3499.98 MHz	3537.48 MHz
	20.85	21.39	21.58		19.00	19.69	20.45		19.25	19.36	19.75
20 MHz	630668	633332	636000	20 MHz	630668	633332	636000	20 MHz	630668	633332	636000
	3460.02 MHz	3499.98 MHz	3540 MHz		3460.02 MHz	3499.98 MHz	3540 MHz		3460.02 MHz	3499.98 MHz	3540 MHz
	20.44	20.98	21.43		19.11	19.69	20.41		19.81	19.90	19.98
15 MHz	630500	633332	636166	15 MHz	630500	633332	636166	15 MHz	630500	633332	636166
	3457.50 MHz	3499.98 MHz	3542.49 MHz		3457.50 MHz	3499.98 MHz	3542.49 MHz		3457.50 MHz	3499.98 MHz	3542.49 MHz
	20.38	20.96	21.24		19.14	19.74	20.38		19.81	19.58	19.61
10 MHz	630334	633332	636332	10 MHz	630334	633332	636332	10 MHz	630334	633332	636332
	3455.01 MHz	3499.98 MHz	3544.98 MHz		3455.01 MHz	3499.98 MHz	3544.98 MHz		3455.01 MHz	3499.98 MHz	3544.98 MHz
	20.51	21.06	21.18		18.60	19.16	19.81		19.43	19.46	19.58

NR Band n77 (PC2, 3700-3980 MHz)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					650000	656000	662000		
					3750.00 MHz	3840.00 MHz	3930.00 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.31	22.90	23.42	3.5	24.5
			1	1	26.92	26.59	27.04	0.0	28.0
			1	136	26.54	26.97	27.39	0.0	28.0
			1	271	26.31	26.84	27.78	0.0	28.0
			1	272	22.69	23.22	24.18	3.5	24.5
			135	0	26.31	26.32	26.86	0.5	27.5
			135	69	26.61	27.07	27.51	0.0	28.0
			135	138	25.78	26.37	27.29	0.5	27.5
		QPSK	270	0	26.07	26.48	27.01	0.5	27.5
			1	0	23.16	22.74	23.27	3.5	24.5
			1	1	26.86	26.45	26.93	0.0	28.0
			1	136	26.48	26.91	27.31	0.0	28.0
			1	271	26.21	26.73	27.62	0.0	28.0
			1	272	22.54	23.09	24.04	3.5	24.5
			135	0	25.74	25.71	26.24	1.0	27.0
			135	69	26.55	26.94	27.41	0.0	28.0
			135	138	25.23	25.78	26.73	1.0	27.0
			270	0	25.51	25.88	26.41	1.0	27.0
		16QAM	1	0	23.27	23.06	23.33	3.5	24.5
			1	1	25.96	25.77	25.98	1.0	27.0
			1	136	25.66	26.11	26.34	1.0	27.0
			1	271	25.35	25.87	26.72	1.0	27.0
			1	272	22.70	23.32	23.98	3.5	24.5
			135	0	24.72	24.69	25.24	2.0	26.0
			135	69	25.53	25.92	26.38	1.0	27.0
			135	138	24.21	24.73	25.71	2.0	26.0
			270	0	24.48	24.84	25.38	2.0	26.0
		64QAM	1	1	24.49	23.90	24.46	2.5	25.5
		256QAM	1	1	22.25	22.24	22.62	4.5	23.5
	CP-OFDM	QPSK	1	0	23.13	22.82	23.30	3.5	24.5
			1	1	25.43	24.89	25.42	1.5	26.5
			1	136	24.93	25.37	25.82	1.5	26.5
			1	271	24.73	25.26	26.20	1.5	26.5
			1	272	22.54	23.07	24.15	3.5	24.5
			135	0	23.71	23.72	24.26	3.0	25.0
			135	69	25.05	25.41	25.86	1.5	26.5
			135	138	23.18	23.76	24.71	3.0	25.0
			270	0	23.57	23.87	24.41	3.0	25.0
		16QAM	1	0	23.33	22.96	23.32	3.5	24.5
			1	1	24.93	24.68	24.98	2.0	26.0
			1	136	24.59	25.08	25.46	2.0	26.0
			1	271	24.32	24.77	25.98	2.0	26.0
			1	272	22.63	23.08	24.03	3.5	24.5
			135	0	23.79	23.73	24.22	3.0	25.0
			135	69	24.53	24.93	25.39	2.0	26.0
			135	138	23.18	23.81	24.68	3.0	25.0
			270	0	23.51	23.88	24.42	3.0	25.0
		64QAM	1	1	23.19	22.89	23.28	3.5	24.5
		256QAM	1	1	20.35	19.62	20.38	6.5	21.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					649666	656000	662332		
					3744.99MHz	3840.00 MHz	3934.98MHz		
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.14	22.84	24.12	3.5	24.5
			1	1	26.83	26.71	27.25	0.0	28.0
			1	123	26.62	27.21	27.92	0.0	28.0
			1	243	26.17	26.98	27.89	0.0	28.0
			1	244	22.53	23.37	24.24	3.5	24.5
			120	0	25.53	25.81	27.43	0.5	27.5
			120	63	26.69	27.08	27.04	0.0	28.0
			120	125	25.28	26.21	26.95	0.5	27.5
		QPSK	243	0	25.66	26.13	26.97	0.5	27.5
			1	0	22.68	23.07	24.30	3.5	24.5
			1	1	26.76	26.45	27.83	0.0	28.0
			1	123	26.42	27.01	27.84	0.0	28.0
			1	243	25.98	26.84	27.54	0.0	28.0
			1	244	22.63	23.30	24.15	3.5	24.5
			120	0	25.58	25.54	26.78	1.0	27.0
			120	63	26.56	26.90	26.92	0.0	28.0
			120	125	25.13	25.76	26.91	1.0	27.0
			243	0	25.42	25.81	26.93	1.0	27.0
		16QAM	1	1	25.44	25.28	26.64	1.0	27.0
			1	123	25.38	25.75	26.58	1.0	27.0
			1	243	25.28	25.86	26.94	1.0	27.0
		64QAM	1	1	24.32	24.02	25.42	2.5	25.5
		256QAM	1	1	22.06	21.97	23.34	4.5	23.5
	CP-OFDM	QPSK	1	1	25.06	25.00	26.49	1.5	26.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					649334	656000	662666		
					3740.01 MHz	3840.00 MHz	3939.99 MHz		
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.16	22.83	24.40	3.5	24.5
			1	1	26.85	26.51	27.09	0.0	28.0
			1	108	26.65	27.20	27.81	0.0	28.0
			1	215	26.08	27.04	27.74	0.0	28.0
			1	216	22.58	23.48	24.45	3.5	24.5
			108	0	25.74	25.82	27.43	0.5	27.5
			108	54	26.85	27.09	27.13	0.0	28.0
			108	108	25.64	26.42	26.72	0.5	27.5
			216	0	25.94	26.06	27.18	0.5	27.5
		QPSK	1	0	23.13	22.69	24.43	3.5	24.5
			1	1	26.30	26.43	27.78	0.0	28.0
			1	108	26.49	26.96	27.61	0.0	28.0
			1	215	25.81	26.79	27.93	0.0	28.0
			1	216	22.38	23.33	24.43	3.5	24.5
			108	0	25.51	25.73	26.82	1.0	27.0
			108	54	26.30	27.01	26.91	0.0	28.0
			108	109	25.20	25.87	26.80	1.0	27.0
			216	0	25.23	25.80	26.90	1.0	27.0
		16QAM	1	1	25.45	25.42	26.72	1.0	27.0
			1	108	25.48	26.15	26.61	1.0	27.0
			1	215	25.29	26.08	26.63	1.0	27.0
		64QAM	1	1	23.91	23.83	25.31	2.5	25.5
		256QAM	1	1	21.96	21.99	23.32	4.5	23.5
	CP-OFDM	QPSK	1	1	24.78	24.94	26.42	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					649000	656000	663000		
					3735.00 MHz	3840.00 MHz	3945.00 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.91	22.93	24.49	3.5	24.5
			1	1	26.91	26.62	27.27	0.0	28.0
			1	94	26.71	27.11	27.25	0.0	28.0
			1	187	26.07	26.93	27.92	0.0	28.0
			1	188	22.81	23.33	24.41	3.5	24.5
			90	0	25.60	25.90	27.15	0.5	27.5
			90	49	26.49	27.06	27.35	0.0	28.0
			90	99	25.86	26.36	26.83	0.5	27.5
			180	0	25.61	26.11	27.30	0.5	27.5
		QPSK	1	0	22.95	22.64	24.42	3.5	24.5
			1	1	26.56	26.50	27.62	0.0	28.0
			1	94	26.58	26.93	27.92	0.0	28.0
			1	187	26.22	26.86	27.99	0.0	28.0
			1	188	22.50	23.30	24.17	3.5	24.5
			90	0	25.61	25.63	26.92	1.0	27.0
			90	49	26.55	27.00	26.96	0.0	28.0
			90	99	25.52	25.87	26.89	1.0	27.0
			180	0	25.58	25.93	26.88	1.0	27.0
		16QAM	1	1	25.43	25.26	26.78	1.0	27.0
			1	94	25.41	25.83	26.95	1.0	27.0
			1	187	25.27	25.99	26.91	1.0	27.0
		64QAM	1	1	23.87	23.82	25.42	2.5	25.5
		256QAM	1	1	22.12	21.88	23.32	4.5	23.5
	CP-OFDM	QPSK	1	1	24.99	24.89	26.38	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					648668	656000	663332		
					3730.02 MHz	3840.00 MHz	3949.98 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.06	22.99	24.35	3.5	24.5
			1	1	26.89	26.82	27.98	0.0	28.0
			1	80	26.90	27.18	27.47	0.0	28.0
			1	160	26.52	26.80	27.58	0.0	28.0
			1	161	22.96	23.24	24.50	3.5	24.5
			81	0	25.98	25.95	27.23	0.5	27.5
			81	40	26.54	27.07	26.83	0.0	28.0
			81	81	25.93	26.32	26.72	0.5	27.5
			162	0	25.78	26.03	26.94	0.5	27.5
		QPSK	1	0	23.13	22.76	24.09	3.5	24.5
			1	1	26.31	26.50	27.51	0.0	28.0
			1	80	26.72	26.97	27.86	0.0	28.0
			1	160	25.95	26.62	27.91	0.0	28.0
			1	161	22.85	23.06	24.35	3.5	24.5
			81	0	25.37	25.74	26.77	1.0	27.0
			81	40	26.37	26.99	26.71	0.0	28.0
			81	81	25.54	25.89	26.82	1.0	27.0
			162	0	25.68	25.82	26.83	1.0	27.0
		16QAM	1	1	25.37	25.66	26.79	1.0	27.0
			1	80	25.76	26.05	26.64	1.0	27.0
			1	160	25.58	26.18	26.82	1.0	27.0
		64QAM	1	1	23.79	23.95	25.15	2.5	25.5
		256QAM	1	1	21.79	22.03	23.44	4.5	23.5
	CP-OFDM	QPSK	1	1	25.09	25.04	26.06	1.5	26.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					648334	656000	663666		
					3725.01 MHz	3840.00 MHz	3954.99 MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.20	23.10	24.37	3.5	24.5
			1	1	26.90	26.89	27.58	0.0	28.0
			1	66	26.68	26.99	27.84	0.0	28.0
			1	131	26.43	26.83	27.87	0.0	28.0
			1	132	22.82	23.21	24.35	3.5	24.5
			64	0	25.62	25.95	26.95	0.5	27.5
			64	34	26.58	27.09	26.83	0.0	28.0
			64	69	25.98	26.27	26.75	0.5	27.5
		QPSK	128	0	25.95	26.14	27.32	0.5	27.5
			1	0	23.00	22.89	24.27	3.5	24.5
			1	1	26.57	26.71	27.59	0.0	28.0
			1	66	26.59	26.85	27.85	0.0	28.0
			1	131	26.18	26.63	27.51	0.0	28.0
			1	132	22.77	23.22	24.49	3.5	24.5
			64	0	25.20	25.62	26.70	1.0	27.0
			64	34	26.29	26.87	26.98	0.0	28.0
			64	69	25.20	25.81	26.86	1.0	27.0
			128	0	25.59	25.84	26.81	1.0	27.0
		16QAM	1	1	25.36	25.51	26.99	1.0	27.0
			1	66	25.44	25.94	26.75	1.0	27.0
			1	131	25.57	25.97	26.61	1.0	27.0
		64QAM	1	1	24.28	24.06	25.25	2.5	25.5
		256QAM	1	1	22.13	22.01	23.45	4.5	23.5
	CP-OFDM	QPSK	1	1	24.90	25.19	26.08	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					648000	656000	664000		
					3720.02 MHz	3840.00 MHz	3960.00 MHz		
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.95	23.07	24.31	3.5	24.5
			1	1	26.55	26.88	27.76	0.0	28.0
			1	52	26.79	27.02	27.64	0.0	28.0
			1	104	26.52	26.86	27.98	0.0	28.0
			1	105	23.04	23.33	24.07	3.5	24.5
			50	0	25.76	25.93	26.99	0.5	27.5
			50	28	26.60	27.18	26.97	0.0	28.0
			50	56	25.76	26.37	26.82	0.5	27.5
		QPSK	100	0	25.88	26.09	27.24	0.5	27.5
			1	0	23.06	22.86	24.06	3.5	24.5
			1	1	26.60	26.65	27.61	0.0	28.0
			1	52	26.81	26.91	27.82	0.0	28.0
			1	104	26.30	26.77	27.69	0.0	28.0
			1	105	22.91	23.30	24.05	3.5	24.5
			50	0	25.41	25.78	26.77	1.0	27.0
			50	28	26.38	26.98	26.89	0.0	28.0
			50	56	25.37	25.74	26.77	1.0	27.0
			100	0	25.35	25.93	26.89	1.0	27.0
		16QAM	1	1	25.35	25.33	26.47	1.0	27.0
			1	52	25.54	25.91	26.69	1.0	27.0
			1	104	25.88	25.88	26.83	1.0	27.0
		64QAM	1	1	24.37	24.15	24.99	2.5	25.5
		256QAM	1	1	22.08	22.36	23.27	4.5	23.5
	CP-OFDM	QPSK	1	1	24.94	25.22	26.14	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					647668	656000	664332		
					3715.02 MHz	3840.00 MHz	3964.98 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.16	23.26	24.45	3.5	24.5
			1	1	26.74	26.73	27.40	0.0	28.0
			1	39	26.86	27.09	27.90	0.0	28.0
			1	76	26.63	26.89	27.76	0.0	28.0
			1	77	22.79	23.18	24.47	3.5	24.5
			36	0	26.44	26.51	26.70	0.5	27.5
			36	21	26.73	26.94	27.69	0.0	28.0
			36	42	26.28	26.50	27.45	0.5	27.5
		QPSK	75	0	26.14	26.40	27.44	0.5	27.5
			1	0	23.09	23.13	24.31	3.5	24.5
			1	1	26.66	26.87	27.98	0.0	28.0
			1	39	26.75	26.92	27.94	0.0	28.0
			1	76	26.72	26.69	27.74	0.0	28.0
			1	77	22.90	23.29	24.32	3.5	24.5
			36	0	25.66	25.72	26.91	1.0	27.0
			36	21	26.42	26.81	26.89	0.0	28.0
			36	42	25.30	25.89	26.78	1.0	27.0
		16QAM	75	0	25.64	25.85	26.84	1.0	27.0
			1	1	25.61	25.71	26.85	1.0	27.0
			1	39	25.58	25.82	26.82	1.0	27.0
		64QAM	1	1	25.83	25.88	26.88	1.0	27.0
		256QAM	1	1	24.20	24.18	25.40	2.5	25.5
	CP-OFDM	QPSK	1	1	21.84	22.52	23.46	4.5	23.5
			1	1	25.18	25.21	26.44	1.5	26.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					647500	656000	664500		
					3712.50 MHz	3840.00 MHz	3967.50 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	22.99	23.08	24.34	3.5	24.5
			1	1	26.57	26.62	27.81	0.0	28.0
			1	32	26.71	26.75	27.90	0.0	28.0
			1	63	26.43	26.53	27.94	0.0	28.0
			1	64	22.96	22.98	24.39	3.5	24.5
			32	0	25.60	25.69	26.91	0.5	27.5
			32	16	26.55	26.74	27.16	0.0	28.0
			32	33	25.77	26.01	26.82	0.5	27.5
			64	0	25.67	25.82	27.17	0.5	27.5
		QPSK	1	0	23.10	23.00	24.26	3.5	24.5
			1	1	26.33	26.65	27.60	0.0	28.0
			1	32	26.36	26.82	27.79	0.0	28.0
			1	63	26.66	26.76	27.93	0.0	28.0
			1	64	22.88	23.31	24.41	3.5	24.5
			32	0	25.20	25.73	26.70	1.0	27.0
			32	16	26.37	26.80	27.03	0.0	28.0
			32	33	25.61	25.76	26.49	1.0	27.0
			64	0	25.47	25.81	26.89	1.0	27.0
		16QAM	1	1	25.22	25.74	26.76	1.0	27.0
			1	32	25.30	25.76	26.76	1.0	27.0
			1	63	25.62	26.08	26.63	1.0	27.0
		64QAM	1	1	23.80	24.25	24.44	2.5	25.5
		256QAM	1	1	22.04	22.51	23.45	4.5	23.5
	CP-OFDM	QPSK	1	1	24.89	25.08	26.13	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					647334	656000	664666		
					3710.01 MHz	3840.00 MHz	3969.99 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.08	23.23	24.19	3.5	24.5
			1	1	26.83	26.80	27.96	0.0	28.0
			1	26	26.64	26.94	27.73	0.0	28.0
			1	49	26.37	26.72	27.74	0.0	28.0
			1	50	23.01	23.36	24.31	3.5	24.5
			25	0	25.98	26.31	27.32	0.5	27.5
			25	13	26.64	26.98	27.73	0.0	28.0
			25	26	26.38	26.50	27.46	0.5	27.5
			50	0	26.39	26.39	27.49	0.5	27.5
		QPSK	1	0	22.89	23.15	24.47	3.5	24.5
			1	1	26.33	26.79	27.66	0.0	28.0
			1	26	26.54	26.78	27.51	0.0	28.0
			1	49	26.30	26.73	27.56	0.0	28.0
			1	50	22.83	23.08	24.22	3.5	24.5
			25	0	25.29	25.72	26.75	1.0	27.0
			25	13	26.55	26.82	26.61	0.0	28.0
			25	26	25.57	25.79	26.78	1.0	27.0
			50	0	25.40	25.70	26.92	1.0	27.0
		16QAM	1	1	25.47	25.75	26.80	1.0	27.0
			1	26	25.58	25.59	26.64	1.0	27.0
			1	49	25.50	25.90	26.80	1.0	27.0
		64QAM	1	1	24.11	24.19	25.36	2.5	25.5
		256QAM	1	1	22.14	22.37	23.43	4.5	23.5
	CP-OFDM	QPSK	1	1	24.92	25.16	26.22	1.5	26.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					647168	656000	664832		
					3709.52 MHz	3840.00 MHz	3972.48 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.22	23.32	24.45	3.5	24.5
			1	1	27.05	26.74	27.86	0.0	28.0
			1	19	26.74	27.02	27.96	0.0	28.0
			1	36	26.97	26.89	27.96	0.0	28.0
			1	37	23.12	23.25	24.42	3.5	24.5
			18	0	26.84	26.30	27.21	0.5	27.5
			18	10	26.85	26.96	27.72	0.0	28.0
			18	20	26.75	26.52	27.25	0.5	27.5
			36	0	26.22	26.43	27.31	0.5	27.5
		QPSK	1	0	23.14	23.18	24.25	3.5	24.5
			1	1	26.82	26.84	27.93	0.0	28.0
			1	19	26.56	26.90	27.63	0.0	28.0
			1	36	26.38	26.69	27.58	0.0	28.0
			1	37	23.02	23.29	24.17	3.5	24.5
			18	0	25.49	25.91	26.89	1.0	27.0
			18	10	26.64	26.76	26.94	0.0	28.0
			18	20	25.32	25.85	26.72	1.0	27.0
			36	0	25.63	25.89	26.74	1.0	27.0
		16QAM	1	1	25.46	25.58	26.76	1.0	27.0
			1	19	25.63	26.05	26.61	1.0	27.0
			1	36	25.68	26.10	26.85	1.0	27.0
		64QAM	1	1	24.17	24.26	25.21	2.5	25.5
		256QAM	1	1	21.90	22.63	23.46	4.5	23.5
	CP-OFDM	QPSK	1	1	25.11	25.30	26.40	1.5	26.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					647000	656000	665000		
					3705.00 MHz	3840.00 MHz	3975.00 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	0	23.31	23.36	24.29	3.5	24.5
			1	1	26.71	26.99	27.89	0.0	28.0
			1	12	26.79	27.02	27.85	0.0	28.0
			1	22	26.49	26.86	27.84	0.0	28.0
			1	23	22.93	23.44	24.14	3.5	24.5
			12	0	26.30	26.41	27.35	0.5	27.5
			12	6	26.77	26.88	27.61	0.0	28.0
			12	12	26.24	26.37	27.40	0.5	27.5
			24	0	26.26	26.34	27.19	0.5	27.5
		QPSK	1	0	23.25	23.36	24.19	3.5	24.5
			1	1	26.76	26.96	27.76	0.0	28.0
			1	12	26.76	26.91	27.76	0.0	28.0
			1	22	26.80	26.88	27.79	0.0	28.0
			1	23	23.20	23.32	24.22	3.5	24.5
			12	0	25.76	25.90	26.80	1.0	27.0
			12	6	26.79	26.94	27.83	0.0	28.0
			12	12	25.80	25.93	26.79	1.0	27.0
			24	0	25.75	25.90	26.80	1.0	27.0
		16QAM	1	1	25.80	25.88	26.91	1.0	27.0
			1	12	25.94	25.98	26.93	1.0	27.0
			1	22	25.64	26.03	26.75	1.0	27.0
		64QAM	1	1	24.47	24.41	25.18	2.5	25.5
		256QAM	1	1	22.48	22.32	23.11	4.5	23.5
	CP-OFDM	QPSK	1	1	25.29	25.40	26.23	1.5	26.5

NR Band n77 (PC2, 3700-3980 MHz, SRS)

Maximum Average Power (dBm) SRS1			Tune-up Limit	Maximum Average Power (dBm) SRS2			Tune-up Limit	Maximum Average Power (dBm) SRS3			Tune-up Limit
			22.0				21.0				19.5
BW (MHz)	Measured Pwr (dBm)			BW (MHz)	Measured Pwr (dBm)			BW (MHz)	Measured Pwr (dBm)		
100 MHz	650000	656000	662000	100 MHz	650000	656000	662000	100 MHz	650000	656000	662000
	3750 MHz	3840 MHz	3930 MHz		3750 MHz	3840 MHz	3930 MHz		3750 MHz	3840 MHz	3930 MHz
	20.64	20.86	21.06		20.41	19.61	19.22		19.35	18.69	17.79
90 MHz	649668	656000	662332	90 MHz	649668	656000	662332	90 MHz	649668	656000	662332
	3745.02 MHz	3840 MHz	3934.98MHz		3745.02 MHz	3840 MHz	3934.98MHz		3745.02 MHz	3840 MHz	3934.98MHz
	20.90	21.10	20.98		20.74	19.75	19.35		19.49	18.68	17.85
80 MHz	649334		662666	80 MHz	649334	656000	662666	80 MHz	649334	656000	662666
	3740.01 MHz	3840 MHz	3939.99 MHz		3740.01 MHz	3840 MHz	3939.99 MHz		3740.01 MHz	3840 MHz	3939.99 MHz
	20.84	21.16	21.08		20.47	19.81	19.33		19.47	18.61	17.87
70 MHz	649000	656000	663000	70 MHz	649000	656000	663000	70 MHz	649000	656000	663000
	3735MHz	3840 MHz	3945MHz		3735MHz	3840 MHz	3945MHz		3735MHz	3840 MHz	3945MHz
	20.80	21.28	20.96		20.65	19.75	19.35		19.48	18.65	17.82
60 MHz	648668	656000	663332	60 MHz	648668	656000	663332	60 MHz	648668	656000	663332
	3730.02 MHz	3840 MHz	3949.98 MHz		3730.02 MHz	3840 MHz	3949.98 MHz		3730.02 MHz	3840 MHz	3949.98 MHz
	20.80	21.40	20.73		20.67	19.97	19.26		19.45	18.93	17.80
50 MHz	648334	656000	663666	50 MHz	648334	656000	663666	50 MHz	648334	656000	663666
	3725.01 MHz	3840 MHz	3954.99 MHz		3725.01 MHz	3840 MHz	3954.99 MHz		3725.01 MHz	3840 MHz	3954.99 MHz
	21.13	21.35	20.51		20.72	20.15	19.31		19.28	19.00	17.59
40 MHz	648000	656000	664000	40 MHz	648000	656000	664000	40 MHz	648000	656000	664000
	3720.02 MHz	3840 MHz	3960 MHz		3720.02 MHz	3840 MHz	3960 MHz		3720.02 MHz	3840 MHz	3960 MHz
	20.74	21.60	20.45		20.70	20.32	19.10		19.11	18.88	17.58
30 MHz	647668	656000	664332	30 MHz	647668	656000	664332	30 MHz	647668	656000	664332
	3715.02 MHz	3840 MHz	3964.98 MHz		3715.02 MHz	3840 MHz	3964.98 MHz		3715.02 MHz	3840 MHz	3964.98 MHz
	20.65	21.48	20.49		20.65	20.25	19.25		19.00	19.12	17.57
25 MHz	647500	656000	664500	25 MHz	647500	656000	664500	25 MHz	647500	656000	664500
	3712.5 MHz	3840 MHz	3967.5 MHz		3712.5 MHz	3840 MHz	3967.5 MHz		3712.5 MHz	3840 MHz	3967.5 MHz
	20.55	21.53	20.42		20.71	20.18	19.13		18.90	19.10	17.61
20 MHz	647334	656000	664666	20 MHz	647334	656000	664666	20 MHz	647334	656000	664666
	3710.01 MHz	3840 MHz	3969.99 MHz		3710.01 MHz	3840 MHz	3969.99 MHz		3710.01 MHz	3840 MHz	3969.99 MHz
	20.88	21.52	20.38		20.75	20.15	19.09		18.82	19.14	17.63
15 MHz	647168	656000	664832	15 MHz	647168	656000	664832	15 MHz	647168	656000	664832
	3707.52 MHz	3840 MHz	3972.48 MHz		3707.52 MHz	3840 MHz	3972.48 MHz		3707.52 MHz	3840 MHz	3972.48 MHz
	20.55	21.25	20.40		20.79	20.12	18.96		18.85	19.10	17.60
10 MHz	647000	656000	665000	10 MHz	647000	656000	665000	10 MHz	647000	656000	665000
	3705 MHz	3840 MHz	3975 MHz		3705 MHz	3840 MHz	3975 MHz		3705 MHz	3840 MHz	3975 MHz
	19.86	21.11	20.57		20.73	20.12	19.27		18.61	19.15	17.59

8.2. PEAK TO AVERAGE RATIO

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to either CMW500 Test Set or E7515B Test set and configured to operate at maximum power. The PAR were measured on the Spectrum Analyzer.

Test Spec

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

NOTE

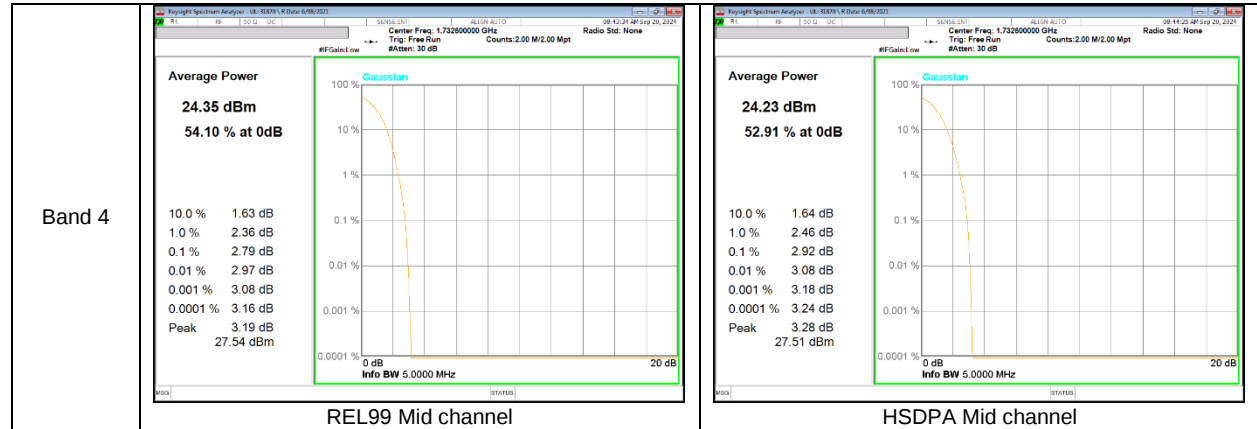
LTE: It was all modulations modulations and worst modulations(QPSK, 256QAM) is reported.
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

RESULTS

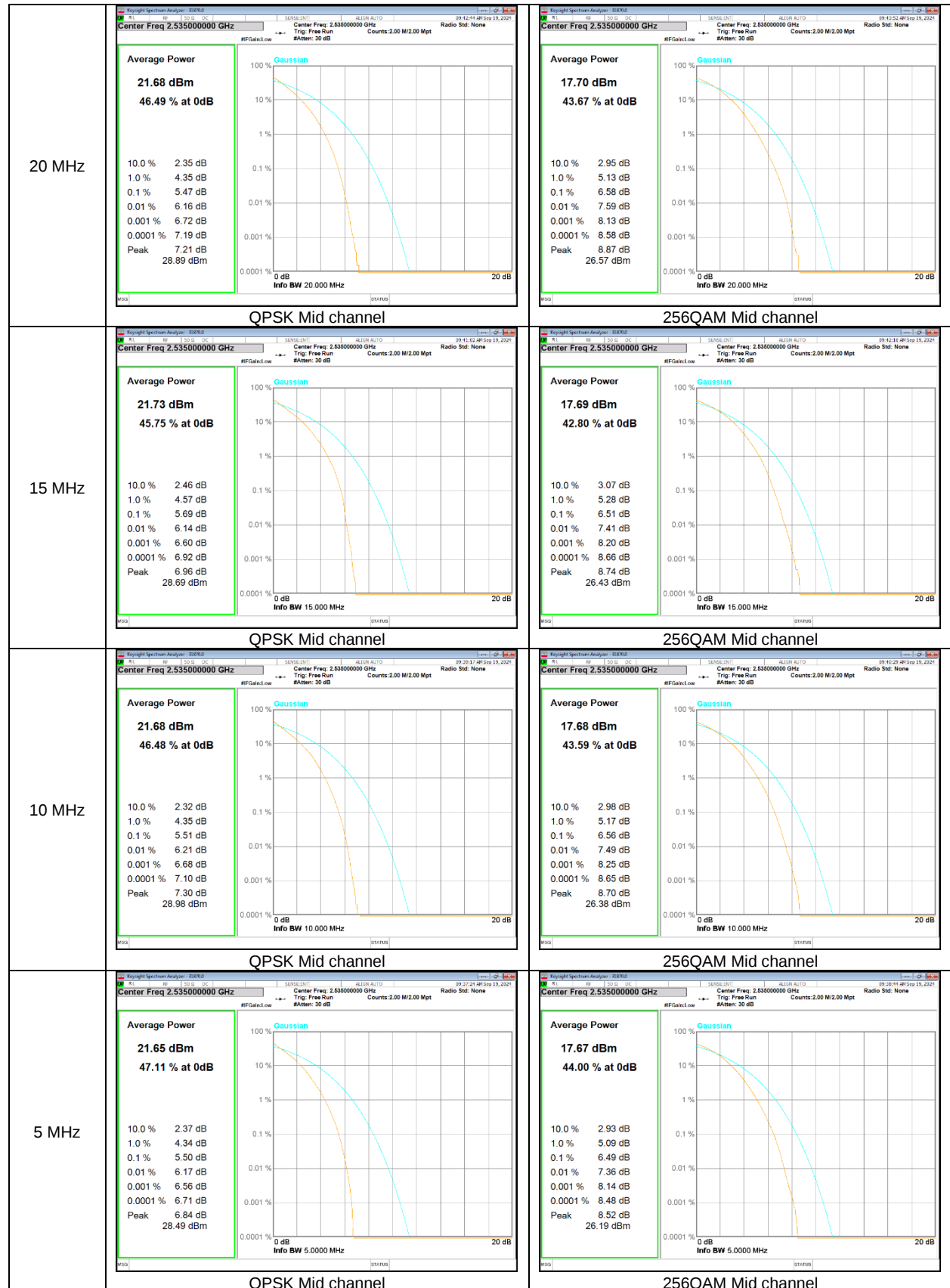
See the following pages.

8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

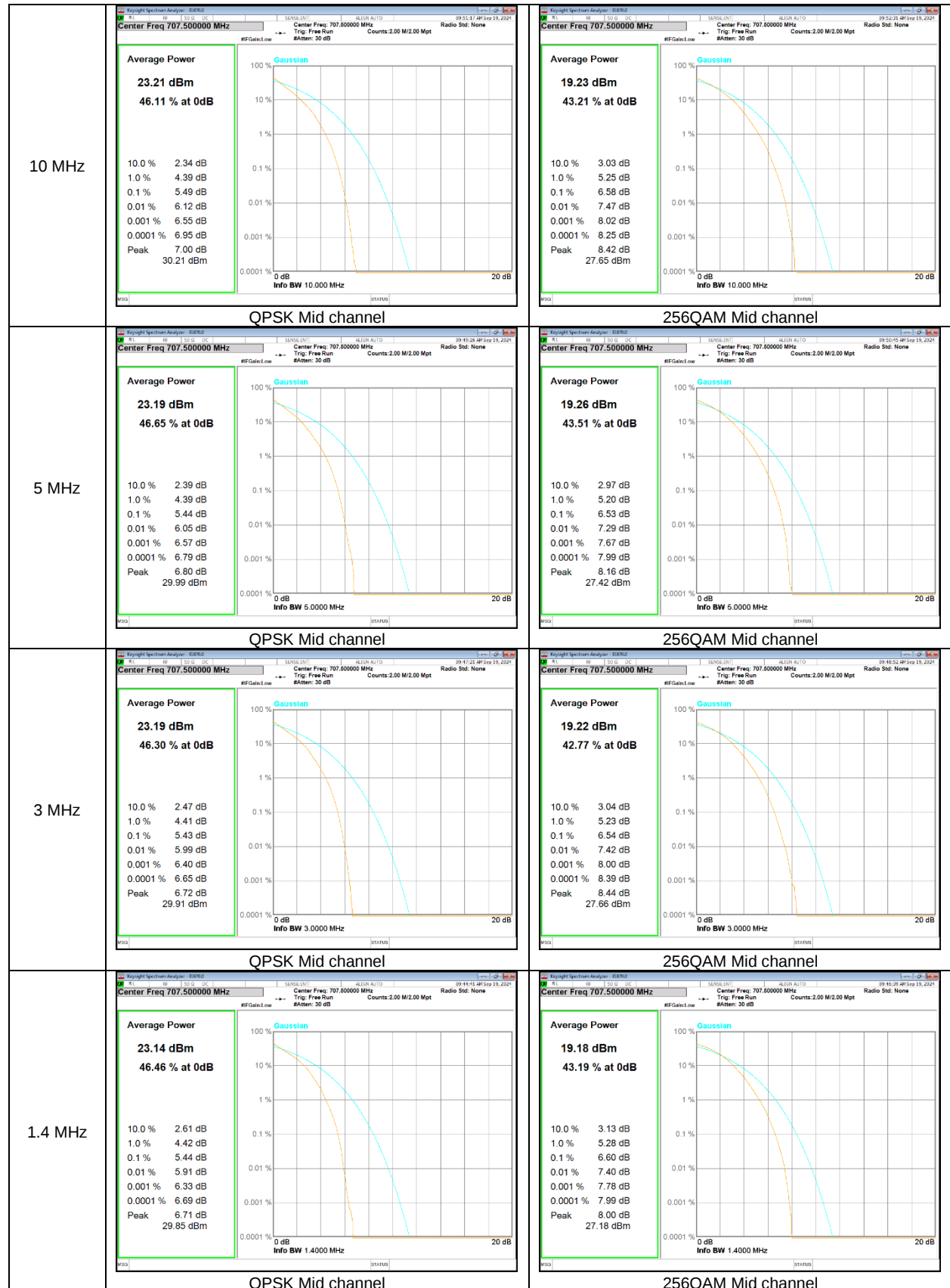
WCDMA



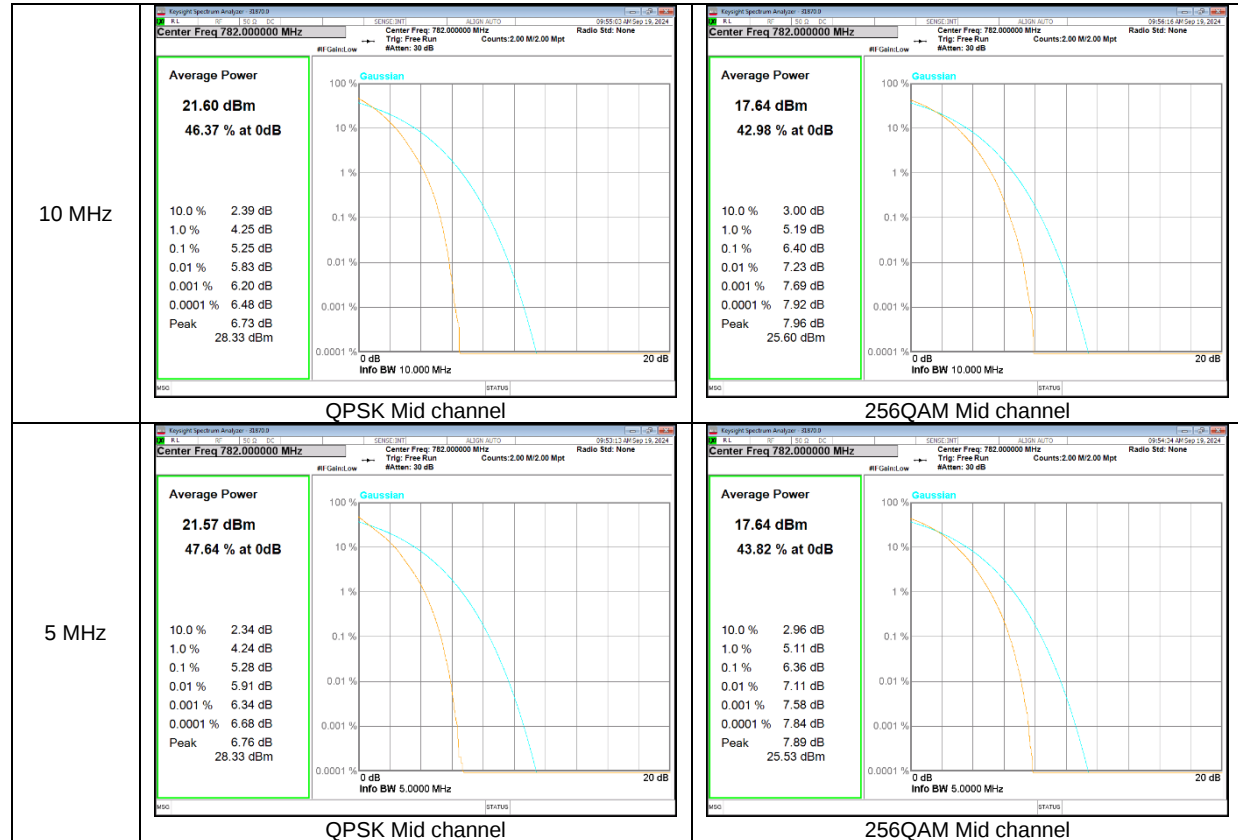
LTE Band 7



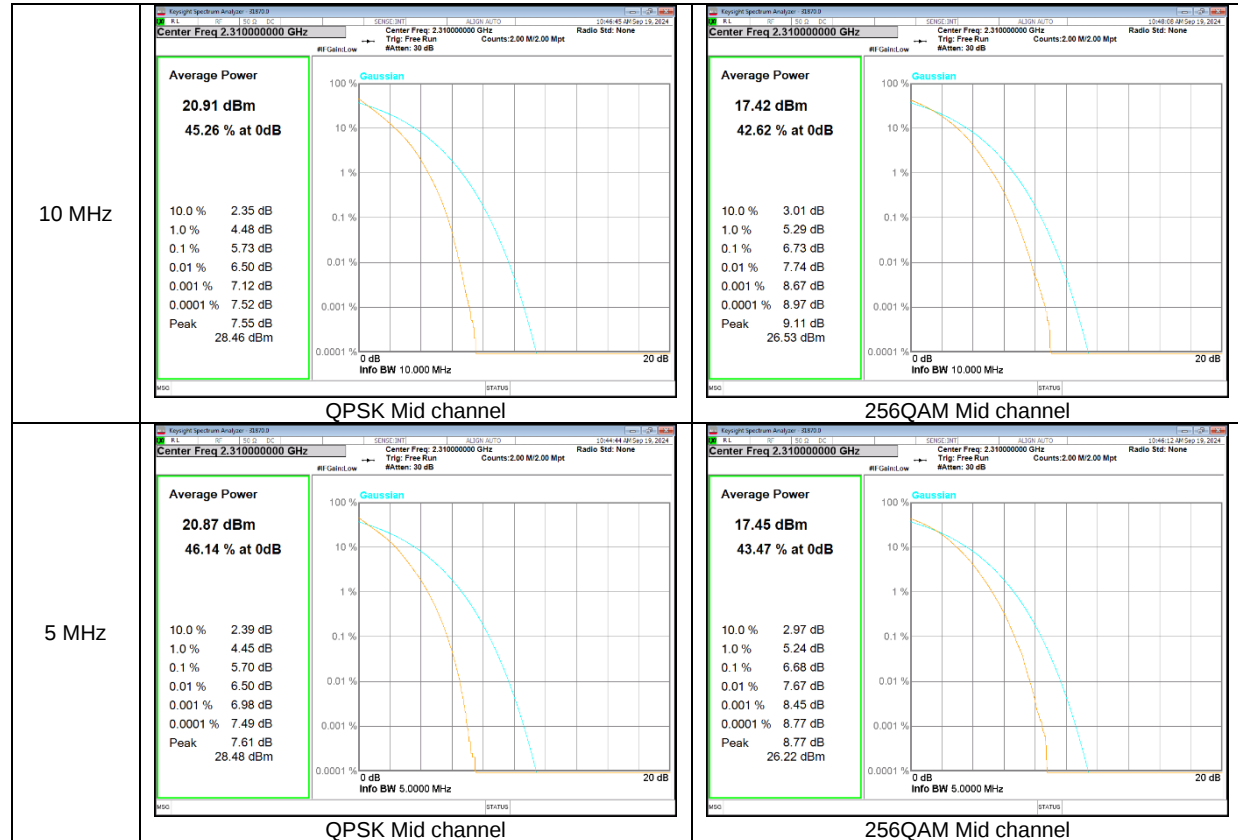
LTE Band 12



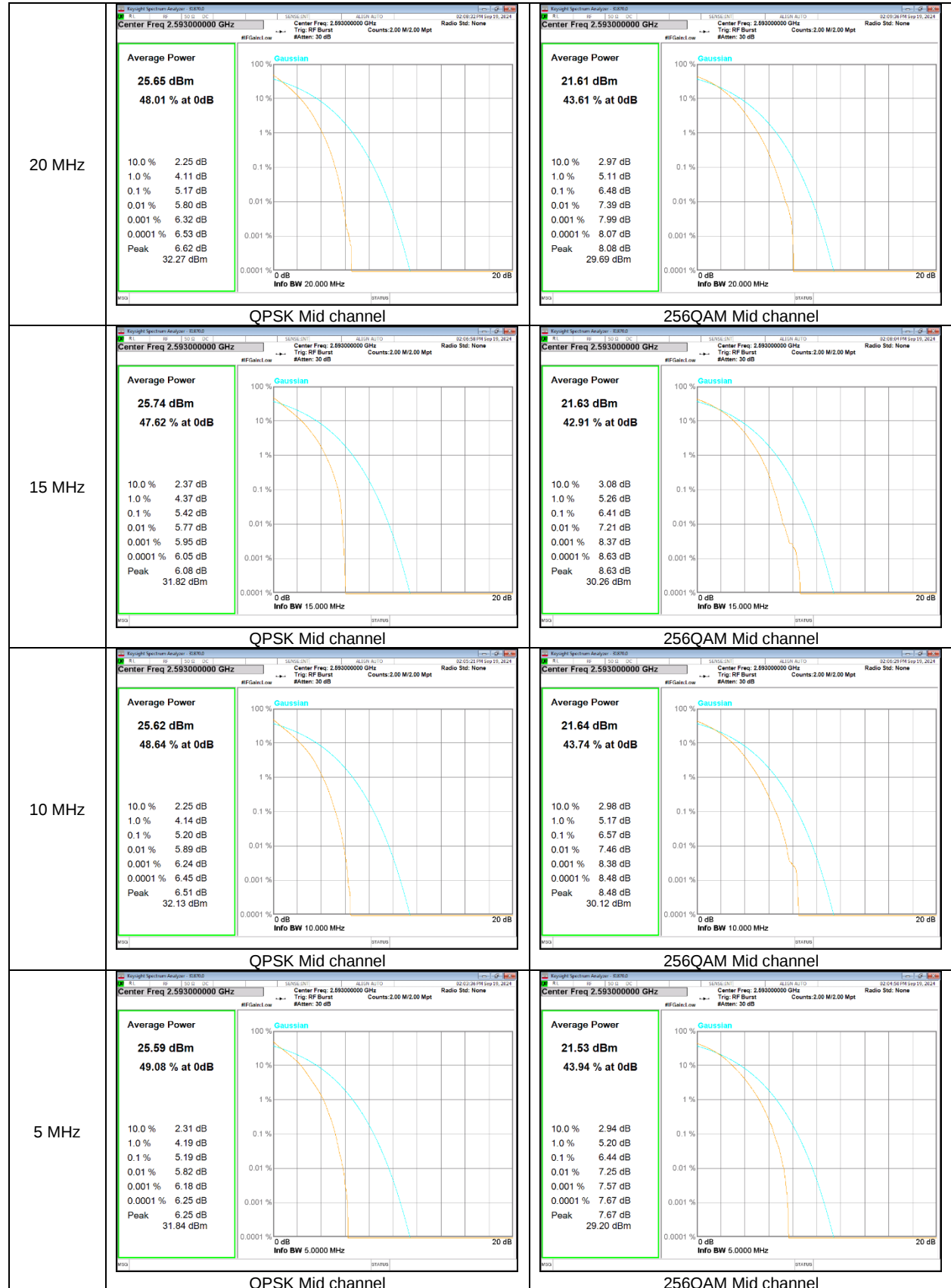
LTE Band 13



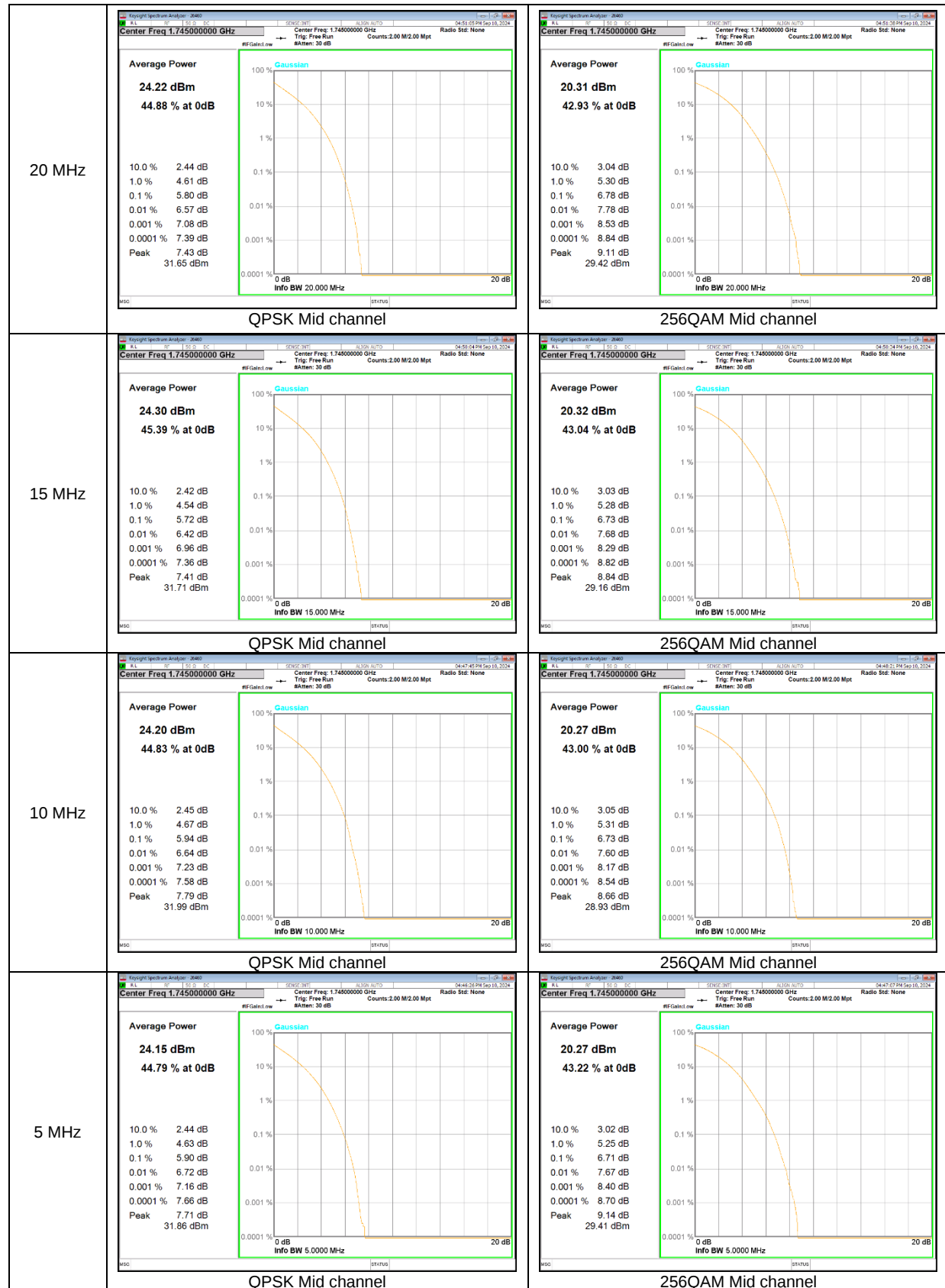
LTE Band 30

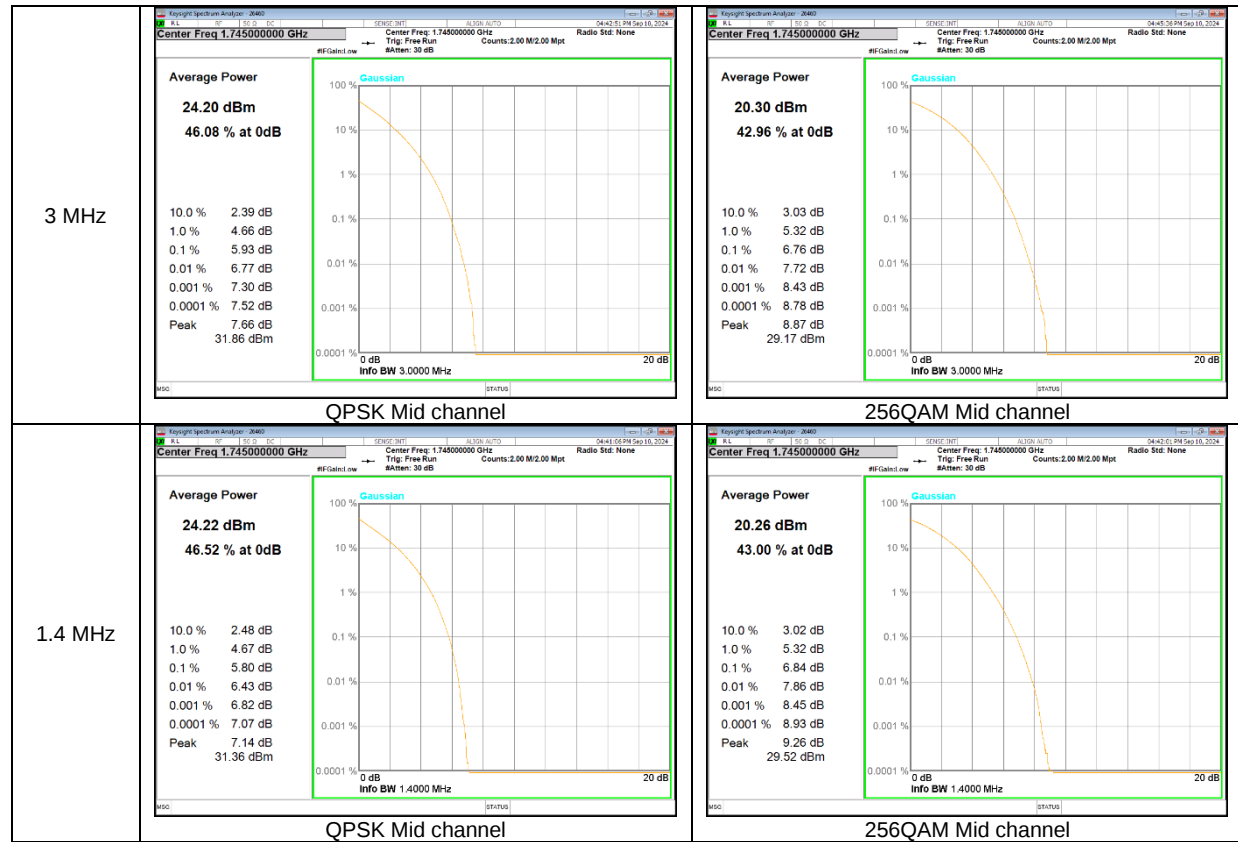


LTE Band 41 (PC2)

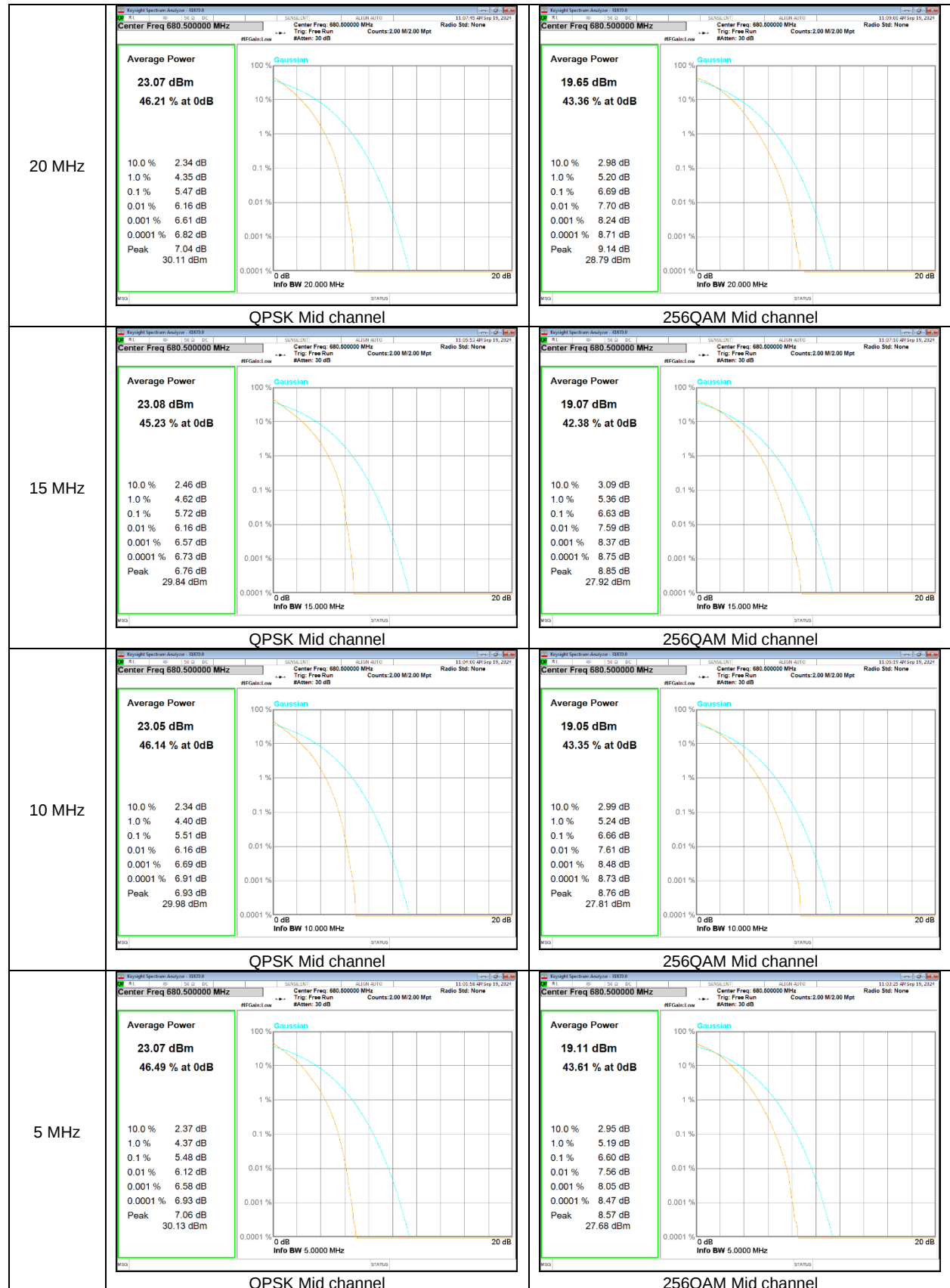


LTE Band 66 (ANT B)

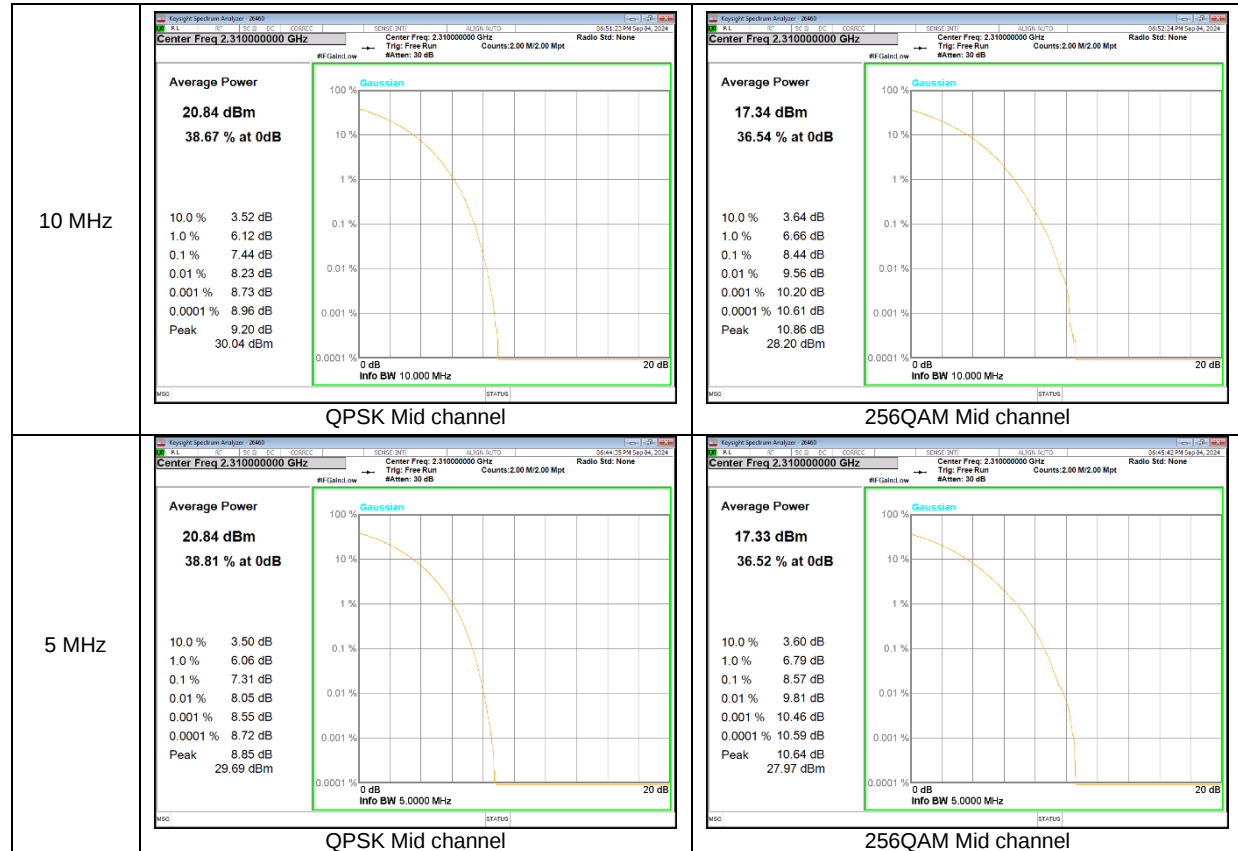




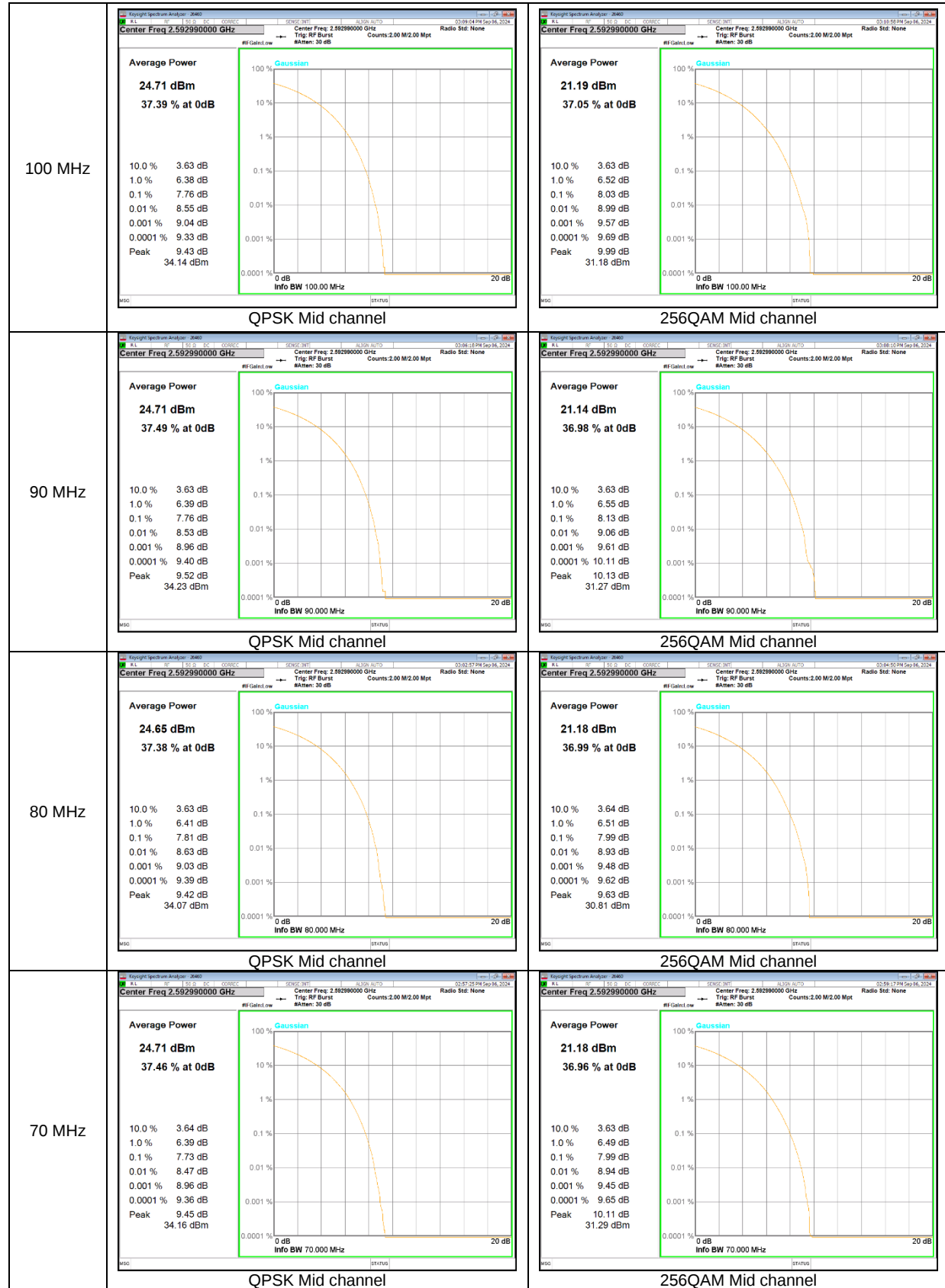
LTE Band 71

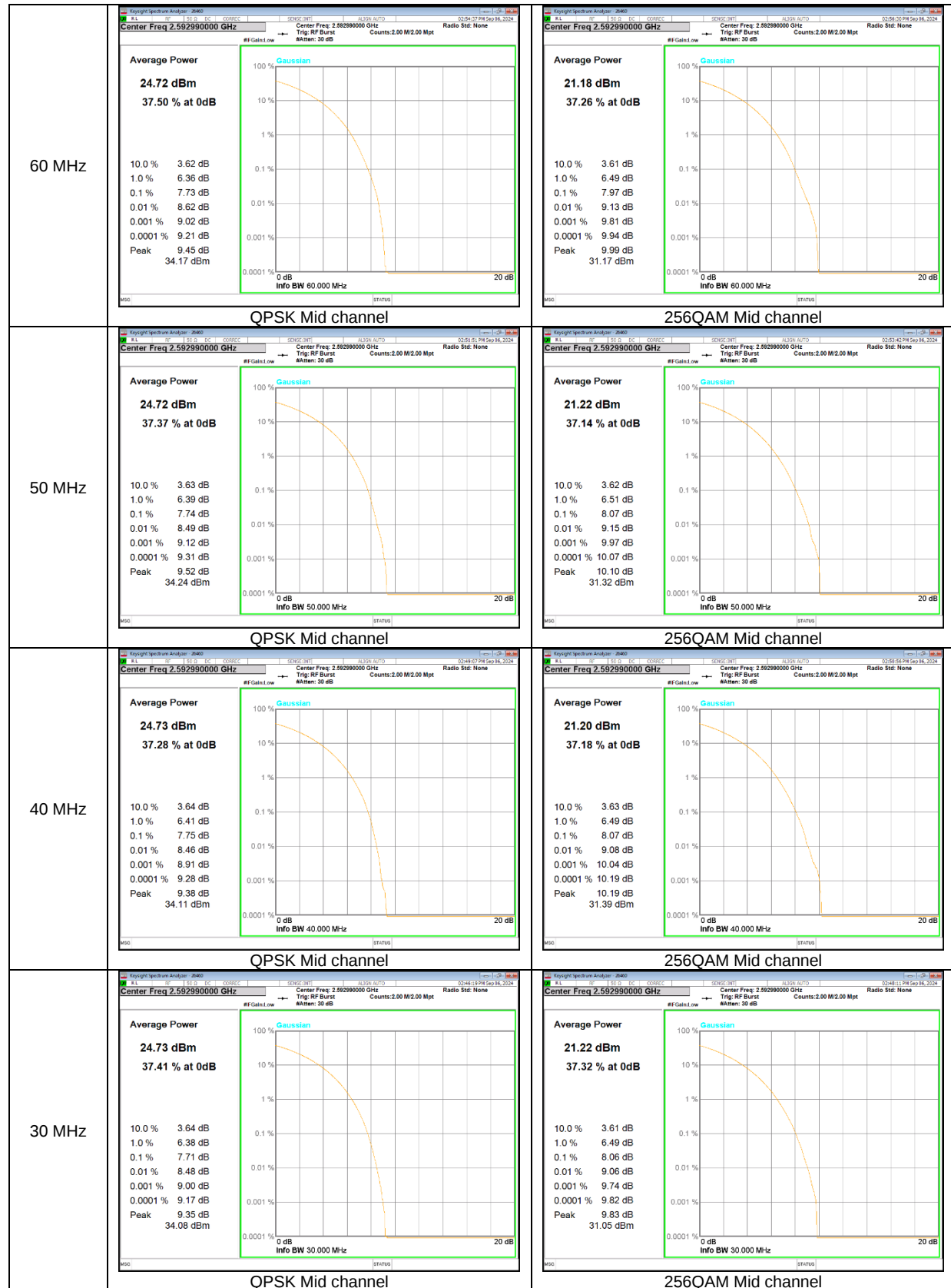


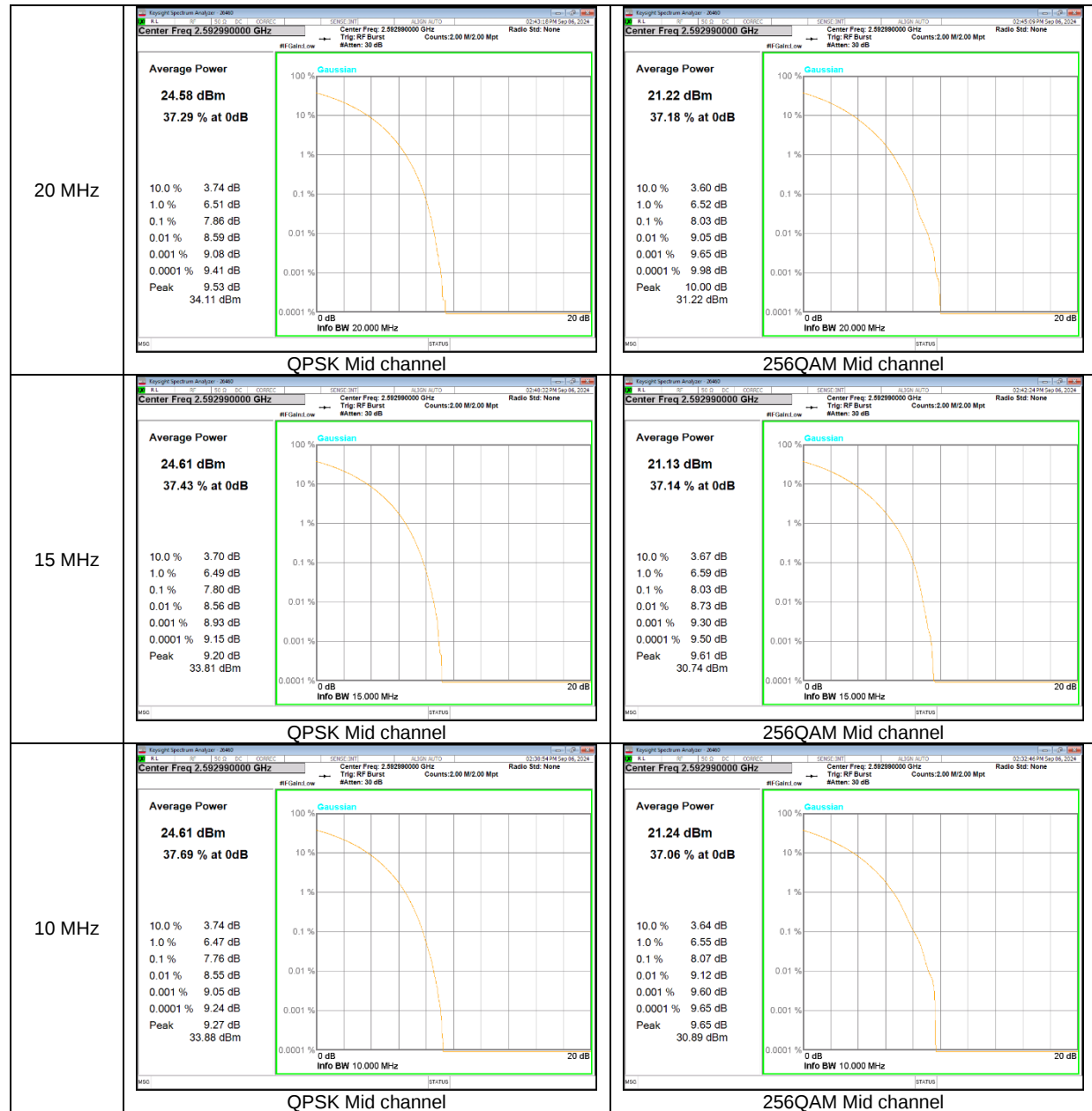
NR Band n30 CP-OFDM



NR Band n41 CP-OFDM







NR Band n66 CP-OFDM (ANT A)

