



CERTIFICATION TEST REPORT

Report Number. : 4790541040-E2V2

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

Model : SM-S916B/DS, SM-S916B

FCC ID : A3LSMS916B

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

Test Standard(s) : FCC CFR47 PART 22 SUBPART H
FCC CFR47 PART 24 SUBPART E
FCC CFR47 PART 27 SUBPART F,H,L,M,N
FCC CFR47 PART 90 SUBPART R,S

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2022-10-27	Initial issue	Yeonhee Lim
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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/ax, NFC, WPT and UWB.

MODEL NUMBER: SM-S916B/DS, SM-S916B

SERIAL NUMBER: R3CT8056EFW (CONDUCTED);
R3CT8056GBF, R3CT8056EHV, R3CT90EXX5F, R3CT90BME7T (RADIATED);

DATE TESTED: 2022-08-30 - 2022-10-27;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 22H, 24E, 27H,L,F,H,M,N and 90R,S	Pass

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:



Seokhwan Hong
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



Yeonhee Lim
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

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

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 22.
3. FCC CFR 47 Part 24.
4. FCC CFR 47 Part 27.
5. FCC CFR 47 Part 90.
6. ANSI TIA-603-E, 2016
7. ANSI C63.26, 2015
8. KDB 971168 D01 Power Meas License Digital Systems v03r01

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	
<input checked="" type="checkbox"/>	Chamber 1(3m semi-anechoic chamber)
<input type="checkbox"/>	Chamber 2(3m semi-anechoic chamber)
<input type="checkbox"/>	Chamber 3(3m semi-anechoic chamber)
<input checked="" type="checkbox"/>	Chamber 4(3m Full-anechoic chamber)
<input type="checkbox"/>	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:

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

$ERP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)}$

(Path loss = Signal generator output – PSA reading with substitution antenna)

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	3.02 dB
Radiated Disturbance, 30 MHz to 1 GHz	4.05 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.78 dB
Radiated Disturbance, 18 GHz to 40 GHz	5.58 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 Procedure 2, Clause 4.4.3 in IEC Guide 115:2021.

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/ax, NFC, WPT and UWB. This test report addresses the WWAN operational mode.

This report covers the Samsung models SM-S916B/DS and SM-S916B. These models are identical in hardware except SM-S916B has single SIM tray. With some pre-scan, model SM-S916B/DS was set for final test.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum average radiated ERP / EIRP output powers as follows:

GSM

FCC Part 22/24						
Band	Frequency Range [MHz]	Modulation	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
GSM850	824~849	GPRS	33.08	2032.36	28.51	709.58
		EGPRS	27.17	521.19	23.57	227.51
GSM1900	1850~1910	GPRS	30.40	1096.48	31.49	1409.29
		EGPRS	26.20	416.87	27.77	598.41

WCDMA

FCC Part 22/24/27						
Band	Frequency Range [MHz]	Modulation	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 5	824~849	Rel. 99	24.53	283.79	19.92	98.17
		HSDPA	23.54	225.94	17.91	61.80
Band 4	1710~1755	Rel. 99	23.46	221.82	25.23	333.43
		HSDPA	22.46	176.20	23.32	214.78
Band 2	1850~1910	Rel. 99	23.58	228.03	25.61	363.92
		HSDPA	22.54	179.47	24.69	294.44

LTE Band 5

FCC Part 22							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 5	829.0 - 844.0	10	QPSK	25.10	323.59	19.78	95.06
			16QAM	24.50	281.84	18.46	70.15
			64QAM	23.16	207.01		
			256QAM	20.24	105.68		
	826.5 - 846.5	5	QPSK	24.91	309.74	19.98	99.54
			16QAM	24.16	260.62	18.85	76.74
			64QAM	23.05	201.84		
			256QAM	20.01	100.23		
	825.5 - 847.5	3	QPSK	24.89	308.32	19.85	96.61
			16QAM	24.06	254.68	18.66	73.45
			64QAM	23.08	203.24		
			256QAM	20.08	101.86		
	824.7 - 848.3	1.4	QPSK	24.86	306.20	20.12	102.80
			16QAM	23.98	250.03	18.32	67.92
			64QAM	23.09	203.70		
			256QAM	20.09	102.09		

LTE Band 12

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 12	704 - 711	10	QPSK	24.33	271.02	19.04	80.17
			16QAM	23.74	236.59	17.99	62.95
			64QAM	22.47	176.60		
			256QAM	19.45	88.10		
	701.5 - 713.5	5	QPSK	24.08	255.86	19.10	81.28
			16QAM	23.46	221.82	17.95	62.37
			64QAM	22.24	167.49		
			256QAM	19.25	84.14		
	700.5 - 714.5	3	QPSK	24.10	257.04	19.10	81.28
			16QAM	23.39	218.27	18.36	68.55
			64QAM	22.37	172.58		
			256QAM	19.17	82.60		
	699.7 - 715.3	1.4	QPSK	24.10	257.04	19.21	83.37
			16QAM	23.39	218.27	18.23	66.53
			64QAM	22.30	169.82		
			256QAM	19.16	82.41		

LTE Band 13

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 13	782	10	QPSK	23.57	227.28	19.50	89.22
			16QAM	22.89	194.66	18.60	72.52
			64QAM	21.83	152.41		
			256QAM	18.80	75.86		
	779.5 - 784.5	5	QPSK	23.84	242.10	19.90	97.77
			16QAM	23.28	212.81	18.66	73.48
			64QAM	22.03	159.59		
			256QAM	18.98	79.07		

LTE Band 25

FCC Part 24							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 25	1860 - 1905	20	QPSK	22.80	190.35	24.78	300.61
			16QAM	22.09	161.75	23.76	237.68
			64QAM	21.64	145.88		
			256QAM	18.73	74.64		
	1857.5 - 1907.5	15	QPSK	22.92	195.88	24.64	291.07
			16QAM	22.08	161.44	23.80	239.88
			64QAM	21.12	129.42		
			256QAM	18.07	64.12		
	1855 - 1910	10	QPSK	23.06	202.30	24.84	304.79
			16QAM	22.24	167.49	23.83	241.55
			64QAM	21.28	134.28		
			256QAM	18.19	65.92		
	1852.5 - 1912.5	5	QPSK	23.10	204.17	24.20	263.03
			16QAM	22.34	171.40	23.30	213.80
			64QAM	21.34	136.14		
			256QAM	18.35	68.39		
	1851.5 - 1913.5	3	QPSK	23.09	203.70	24.29	268.53
			16QAM	22.22	166.72	23.28	212.81
			64QAM	21.31	135.21		
			256QAM	18.23	66.53		
1850.7 - 1914.3	1.4	QPSK	23.14	206.06	24.17	261.22	
		16QAM	22.17	164.82	23.26	211.84	
		64QAM	21.24	133.05			
		256QAM	18.18	65.77			

LTE Band 26 (Part 90)

FCC Part 90							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 26	821.5	15	QPSK	24.13	258.82	20.03	100.69
			16QAM	23.29	213.30	19.01	79.62
			64QAM	22.32	170.61		
			256QAM	19.31	85.31		
	819	10	QPSK	24.28	267.92	20.38	109.14
			16QAM	23.58	228.03	19.49	88.92
			64QAM	22.41	174.18		
			256QAM	19.38	86.70		
	816.5 - 821.5	5	QPSK	24.28	267.92	20.26	106.17
			16QAM	23.66	232.27	19.36	86.30
			64QAM	22.49	177.42		
			256QAM	19.44	87.90		
	815.5 - 822.5	3	QPSK	24.28	267.92	20.46	111.17
			16QAM	23.61	229.61	19.31	85.31
			64QAM	22.40	173.78		
			256QAM	19.39	86.90		
814.7 - 823.3	1.4	QPSK	24.01	251.77	20.51	112.46	
		16QAM	23.40	218.78	19.34	85.90	
		64QAM	22.42	174.58			
		256QAM	19.34	85.90			

LTE Band 26 (Part 22)

FCC Part 22							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 26	831.5 ~ 841.5	15	QPSK	24.07	255.09	19.56	90.36
			16QAM	23.37	217.46	18.40	69.18
			64QAM	22.24	167.49		
			256QAM	19.30	85.11		
	829 ~ 844	10	QPSK	24.14	259.42	19.72	93.76
			16QAM	23.56	226.99	18.59	72.28
			64QAM	22.34	171.40		
			256QAM	19.25	84.14		
	826.5 ~ 846.5	5	QPSK	24.18	261.82	19.93	98.40
			16QAM	23.56	226.99	18.75	74.99
			64QAM	22.33	171.00		
			256QAM	19.24	83.95		
	825.5 ~ 847.5	3	QPSK	24.20	263.03	19.73	93.97
			16QAM	23.62	230.14	18.74	74.82
			64QAM	22.43	174.98		
			256QAM	19.25	84.14		
	824.7 ~ 848.3	1.4	QPSK	24.02	252.35	19.99	99.77
			16QAM	23.42	219.79	18.81	76.03
			64QAM	22.31	170.22		
			256QAM	19.21	83.37		

LTE Band 26 (Straddle)

Straddle							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 26	824	15	QPSK	24.29	268.53	19.73	93.97
			16QAM	23.59	228.56	18.62	72.78
			64QAM	22.49	177.42		
			256QAM	19.46	88.31		
		10	QPSK	24.43	277.33	19.85	96.61
			16QAM	23.86	243.22	18.82	76.21
			64QAM	22.66	184.50		
			256QAM	19.52	89.54		
		5	QPSK	24.44	277.97	19.83	96.16
			16QAM	23.89	244.91	18.61	72.61
			64QAM	22.66	184.50		
			256QAM	19.61	91.41		
		3	QPSK	24.45	278.61	19.58	90.78
			16QAM	23.76	237.68	18.60	72.44
			64QAM	22.65	184.08		
			256QAM	19.54	89.95		
		1.4	QPSK	24.42	276.69	19.41	87.30
			16QAM	23.72	235.50	18.24	66.68
			64QAM	22.53	179.06		
			256QAM	19.51	89.33		

LTE Band 41(PC2)

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 41	2506 - 2680	20	QPSK	25.74	374.97	26.10	407.38
			16QAM	25.16	328.10	25.35	342.77
			64QAM	23.97	249.46		
			256QAM	20.94	124.17		
	2503.5 - 2682.5	15	QPSK	25.77	377.57	25.95	393.55
			16QAM	25.05	319.89	25.26	335.74
			64QAM	23.96	248.89		
			256QAM	20.85	121.62		
	2501 - 2685	10	QPSK	25.80	380.19	25.85	384.59
			16QAM	25.18	329.61	25.10	323.59
			64QAM	24.05	254.10		
			256QAM	20.89	122.74		
	2498.5 - 2687.5	5	QPSK	25.78	378.44	25.71	372.39
			16QAM	25.16	328.10	25.09	322.85
			64QAM	23.96	248.89		
			256QAM	21.01	126.18		

LTE Band 66

FCC Part 27							
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 66	1720 - 1770	20	QPSK	23.08	203.21	23.49	223.36
			16QAM	22.53	179.22	22.58	181.13
			64QAM	21.83	152.41		
			256QAM	18.72	74.47		
	1717.5 - 1772.5	15	QPSK	23.23	210.38	23.30	213.80
			16QAM	22.67	184.93	22.34	171.40
			64QAM	21.39	137.72		
			256QAM	18.41	69.34		
	1715 - 1775	10	QPSK	23.35	216.27	23.51	224.39
			16QAM	22.67	184.93	22.60	181.97
			64QAM	21.50	141.25		
			256QAM	18.46	70.15		
	1712.5 - 1777.5	5	QPSK	23.35	216.27	23.71	234.96
			16QAM	22.64	183.65	22.89	194.54
			64QAM	21.58	143.88		
			256QAM	18.54	71.45		
	1711.5 - 1778.5	3	QPSK	23.29	213.30	23.67	232.81
			16QAM	22.67	184.93	22.77	189.23
			64QAM	21.48	140.60		
			256QAM	18.41	69.34		
1710.7 - 1779.3	1.4	QPSK	23.04	201.37	23.70	234.42	
		16QAM	22.45	175.79	22.81	190.99	
		64QAM	21.21	132.13			
		256QAM	18.19	65.92			

NR Band n5

FCC Part 22									
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated		
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	
n5	834 - 839	20	DFT-s OFDM	$\pi/2$ BPSK	24.72	296.48			
				QPSK	24.88	307.61	20.11	102.57	
				16QAM	23.79	239.33	18.86	76.91	
				64QAM	22.49	177.42			
				256QAM	19.87	97.05			
	831.5 - 841.5	15	DFT-s OFDM	$\pi/2$ BPSK	24.80	302.00			
				QPSK	24.92	310.46	21.35	136.46	
				16QAM	23.84	242.10	20.43	110.41	
				64QAM	22.36	172.19			
				256QAM	19.94	98.63			
	829 - 844	10	DFT-s OFDM	CP-OFDM	QPSK	23.37	217.27		
				$\pi/2$ BPSK	24.51	282.49			
				QPSK	24.54	284.45	21.31	135.21	
				16QAM	23.44	220.80	20.02	100.46	
				64QAM	22.23	167.11			
	826.5 - 846.5	5	DFT-s OFDM	256QAM	19.46	88.31			
				CP-OFDM	QPSK	22.89	194.54		
				$\pi/2$ BPSK	24.63	290.40			
				QPSK	24.75	298.54	21.34	136.14	
				16QAM	23.57	227.51	19.87	97.05	
826.5 - 846.5	5	DFT-s OFDM	64QAM	22.34	171.40				
			256QAM	19.63	91.83				
			CP-OFDM	QPSK	23.10	204.17			

NR Band n25

FCC Part 24									
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated		
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]	
n25	1860 - 1905	20	DFT-s OFDM	$\pi/2$ BPSK	22.75	188.36			
				QPSK	22.76	188.80	24.23	264.85	
				16QAM	21.68	147.23	23.19	208.45	
				64QAM	20.36	108.64			
				256QAM	17.68	58.61			
	CP-OFDM	QPSK	21.15	130.32					
		1857.5 - 1907.5	15	DFT-s OFDM	$\pi/2$ BPSK	22.70	186.21		
					QPSK	22.70	186.21	24.37	273.53
					16QAM	21.68	147.23	23.30	213.80
					64QAM	20.36	108.64		
	256QAM				17.61	57.68			
	CP-OFDM	QPSK	21.13	129.72					
		1855 - 1910	10	DFT-s OFDM	$\pi/2$ BPSK	22.51	178.24		
					QPSK	22.52	178.65	24.05	254.10
					16QAM	21.45	139.64	23.07	202.77
					64QAM	20.12	102.80		
	256QAM				17.33	54.08			
	CP-OFDM	QPSK	20.82	120.78					
		1852.5 - 1912.5	5	DFT-s OFDM	$\pi/2$ BPSK	22.47	176.60		
					QPSK	22.52	178.65	23.77	238.23
16QAM					21.52	141.91	22.83	191.87	
64QAM					20.18	104.23			
256QAM	17.38				54.70				
CP-OFDM	QPSK	20.90	123.03						

NR Band n41

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.0 - 2640.0	100	DFT-s OFDM	$\pi/2$ BPSK	23.51	224.51		
				QPSK	23.55	226.25	21.84	152.76
				16QAM	22.94	196.70	20.92	123.59
				64QAM	21.26	133.68		
			CP-OFDM	QPSK	22.03	159.47		
	2541.0 - 2645.0	90	DFT-s OFDM	$\pi/2$ BPSK	23.61	229.63		
				QPSK	23.62	230.03	22.00	158.49
				16QAM	22.94	196.71	21.13	129.72
				64QAM	21.51	141.42		
			CP-OFDM	QPSK	22.15	163.97		
	2536.0 - 2650.0	80	DFT-s OFDM	$\pi/2$ BPSK	23.52	224.82		
				QPSK	23.57	227.48	21.96	157.04
				16QAM	22.57	180.86	20.93	123.88
				64QAM	22.48	177.12		
			CP-OFDM	QPSK	23.06	202.33		
	2536.0 - 2650.0	70	DFT-s OFDM	$\pi/2$ BPSK	24.42	276.69		
				QPSK	24.49	281.19	21.33	135.83
				16QAM	23.67	232.81	20.46	111.17
				64QAM	22.05	160.32		
			CP-OFDM	QPSK	23.04	201.37		
	2526.0 - 2660.0	60	DFT-s OFDM	$\pi/2$ BPSK	23.49	223.16		
				QPSK	23.53	225.66	22.50	177.83
				16QAM	22.62	182.97	21.47	140.28
				64QAM	21.39	137.67		
			CP-OFDM	QPSK	22.02	159.32		
	2521.0 - 2665.0	50	DFT-s OFDM	$\pi/2$ BPSK	23.58	227.86		
				QPSK	23.65	231.64	21.99	158.12
				16QAM	22.74	187.90	21.00	125.89
				64QAM	21.43	139.05		
			CP-OFDM	QPSK	22.09	161.97		
	2516.0 - 2670.0	40	DFT-s OFDM	$\pi/2$ BPSK	23.72	235.47		
				QPSK	23.79	239.41	22.16	164.44
16QAM				22.88	194.11	21.30	134.90	
64QAM				21.64	145.86			
CP-OFDM			QPSK	22.32	170.74			
2516.0 - 2670.0	40	DFT-s OFDM	256QAM	19.41	87.27			
			256QAM	19.41	87.27			
			256QAM	19.41	87.27			
			256QAM	19.41	87.27			
		CP-OFDM	QPSK	22.32	170.74			

n41	2511.0 - 2675.0	30	DFT-s OFDM	$\pi/2$ BPSK	23.76	237.83			
				QPSK	23.82	241.12	22.12	162.93	
				16QAM	23.13	205.47	21.25	133.35	
				64QAM	21.63	145.66			
				256QAM	19.49	88.99			
	2506.0 - 2680.0	20	DFT-s OFDM	CP-OFDM	QPSK	22.38	173.07		
					$\pi/2$ BPSK	24.10	256.88		
					QPSK	24.18	261.81	21.86	153.46
					16QAM	23.02	200.47	21.17	130.92
					64QAM	21.63	145.66		
	2503.5 - 2682.5	15	DFT-s OFDM	CP-OFDM	256QAM	19.65	92.32		
					QPSK	22.57	180.83		
					$\pi/2$ BPSK	23.58	227.86		
					QPSK	23.65	231.64	21.34	136.14
					16QAM	22.74	187.90	20.37	108.89
	2501.0 - 2685.0	10	DFT-s OFDM	CP-OFDM	64QAM	21.43	139.05		
					256QAM	19.08	80.98		
					QPSK	22.09	161.97		
					$\pi/2$ BPSK	23.72	235.47		
					QPSK	23.79	239.41	21.09	128.53
				16QAM	22.88	194.11	20.40	109.65	
				64QAM	21.64	145.86			
				256QAM	19.41	87.27			
				QPSK	22.32	170.74			

NR Band n41(SRS1)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.0 - 2640.0	100	20.64	115.88		
	2541.0 - 2645.0	90	20.47	111.43		
	2536.0 - 2650.0	80	20.48	111.69		
	2531.0 - 2665.0	70	20.45	110.92		
	2526.0 - 2660.0	60	20.64	115.88		
	2521.0 - 2665.0	50	20.78	119.67		
	2516.0 - 2670.0	40	20.80	120.23	16.98	49.89
	2511.0 - 2675.0	30	20.78	119.67		
	2506.0 - 2680.0	20	20.69	117.22		
	2503.5 - 2682.5	15	20.46	111.17		
	2501.0 - 2685.0	10	20.50	112.20		

NR Band n41(SRS2)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.0 - 2640.0	100	19.37	86.50		
	2541.0 - 2645.0	90	19.29	84.92		
	2536.0 - 2650.0	80	19.27	84.53		
	2531.0 - 2665.0	70	19.38	86.70		
	2526.0 - 2660.0	60	19.33	85.70		
	2521.0 - 2665.0	50	19.45	88.10		
	2516.0 - 2670.0	40	19.46	88.31		
	2511.0 - 2675.0	30	19.42	87.50		
	2506.0 - 2680.0	20	19.50	89.13	15.15	32.73
	2503.5 - 2682.5	15	19.38	86.70		
	2501.0 - 2685.0	10	19.43	87.70		

NR Band n41(SRS3)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.0 - 2640.0	100	18.06	63.97		
	2541.0 - 2645.0	90	18.11	64.71		
	2536.0 - 2650.0	80	18.20	66.07		
	2531.0 - 2665.0	70	18.25	66.83		
	2526.0 - 2660.0	60	18.39	69.02		
	2521.0 - 2665.0	50	18.62	72.78		
	2516.0 - 2670.0	40	18.69	73.96		
	2511.0 - 2675.0	30	18.77	75.34		
	2506.0 - 2680.0	20	18.86	76.91		
	2503.5 - 2682.5	15	18.90	77.62		
	2501.0 - 2685.0	10	18.96	78.70	11.17	13.09

NR Band n66(Main1 Ant)

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n66	1720.0 - 1770.0	20	DFT-s OFDM	$\pi/2$ BPSK	23.57	227.51		
				QPSK	23.70	234.42	23.18	207.97
				16QAM	22.63	183.23	22.04	159.96
				64QAM	21.30	134.90		
			256QAM	18.59	72.28			
	CP-OFDM	QPSK	22.08	161.44				
	1717.5 - 1772.5	15	DFT-s OFDM	$\pi/2$ BPSK	23.58	228.03		
				QPSK	23.71	234.96	22.96	197.70
				16QAM	22.66	184.50	21.94	156.31
				64QAM	21.37	137.09		
			256QAM	18.62	72.78			
	CP-OFDM	QPSK	22.08	161.44				
	1715.0 - 1775.0	10	DFT-s OFDM	$\pi/2$ BPSK	23.57	227.51		
				QPSK	23.61	229.61	22.66	184.50
				16QAM	22.56	180.30	21.78	150.66
				64QAM	21.29	134.59		
			256QAM	18.51	70.96			
	CP-OFDM	QPSK	21.95	156.68				
	1712.5 - 1777.5	5	DFT-s OFDM	$\pi/2$ BPSK	23.60	229.09		
				QPSK	23.57	227.51	22.63	183.23
16QAM				22.49	177.42	21.73	148.94	
64QAM				21.31	135.21			
256QAM			18.48	70.47				
CP-OFDM	QPSK	22.01	158.85					

NR Band n66(Sub2 Ant)

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated (Main Ant)	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n66	1720.0 - 1770.0	20	DFT-s OFDM	$\pi/2$ BPSK	23.24	210.86		
				QPSK	23.25	211.35		
				16QAM	22.21	166.34		
				64QAM	20.81	120.50		
				256QAM	18.61	72.61		
	CP-OFDM	QPSK	21.47	140.28				
	1717.5 - 1772.5	15	DFT-s OFDM	$\pi/2$ BPSK	23.19	208.45		
				QPSK	23.26	211.84		
				16QAM	22.01	158.85		
				64QAM	20.64	115.88		
				256QAM	18.53	71.29		
	CP-OFDM	QPSK	21.40	138.04				
	1715.0 - 1775.0	10	DFT-s OFDM	$\pi/2$ BPSK	23.71	234.96		
				QPSK	23.74	236.59	20.67	116.68
				16QAM	21.90	154.88	19.66	92.47
				64QAM	20.32	107.65		
				256QAM	18.54	71.45		
	CP-OFDM	QPSK	21.40	138.04				
	1712.5 - 1777.5	5	DFT-s OFDM	$\pi/2$ BPSK	22.99	199.07		
				QPSK	23.01	199.99		
16QAM				21.92	155.60			
64QAM				20.51	112.46			
256QAM				18.51	70.96			
CP-OFDM	QPSK	21.20	131.83					

NR Band n77(3450 ~ 3550 MHz)

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3499.98	100	DFT-s OFDM	$\pi/2$ BPSK	24.62	289.79		
				QPSK	24.57	286.44	25.27	336.51
				16QAM	23.52	224.76	24.29	268.53
				64QAM	22.32	170.77		
				256QAM	19.76	94.59		
	CP-OFDM	QPSK	22.68	185.32				
	3495.0 - 3504.99	90	DFT-s OFDM	$\pi/2$ BPSK	24.64	291.15		
				QPSK	24.60	288.08	25.33	341.19
				16QAM	23.50	223.74	24.43	277.33
				64QAM	22.08	161.34		
				256QAM	20.03	100.69		
	CP-OFDM	QPSK	22.91	195.53				
	3490.02 - 3510.0	80	DFT-s OFDM	$\pi/2$ BPSK	24.49	281.36		
				QPSK	24.49	281.48	25.73	374.11
				16QAM	23.46	221.72	24.68	293.76
				64QAM	23.42	219.92		
				256QAM	23.51	224.58		
	CP-OFDM	QPSK	23.51	224.58				
	3485.01 - 3514.98	70	DFT-s OFDM	$\pi/2$ BPSK	24.25	266.07		
				QPSK	24.29	268.53	25.00	316.23
				16QAM	23.07	202.77	24.15	260.02
				64QAM	21.82	152.05		
				256QAM	19.13	81.85		
	CP-OFDM	QPSK	22.56	180.30				
	3480 - 3519.99	60	DFT-s OFDM	$\pi/2$ BPSK	24.74	297.89		
				QPSK	24.78	300.32	25.53	357.27
				16QAM	23.73	236.11	24.59	287.74
				64QAM	22.22	166.85		
				256QAM	20.17	103.96		
	CP-OFDM	QPSK	23.22	210.04				
3475.02 - 3525	50	DFT-s OFDM	$\pi/2$ BPSK	24.72	296.48			
			QPSK	24.78	300.78	25.30	338.84	
			16QAM	23.93	246.93	24.31	269.77	
			64QAM	22.72	187.06			
			256QAM	20.42	110.14			
CP-OFDM	QPSK	23.34	215.83					
3470.01 - 3529.98	40	DFT-s OFDM	$\pi/2$ BPSK	25.01	317.24			
			QPSK	24.95	312.48	25.95	393.55	
			16QAM	23.99	250.35	24.92	310.46	
			64QAM	22.54	179.42			
			256QAM	20.55	113.51			
CP-OFDM	QPSK	23.53	225.37					
3465.0 - 3535.02	30	DFT-s OFDM	$\pi/2$ BPSK	25.02	317.65			
			QPSK	24.84	305.10	25.09	322.85	
			16QAM	24.12	258.05	24.36	272.90	
			64QAM	22.54	179.35			
			256QAM	20.43	110.53			
CP-OFDM	QPSK	23.27	212.50					

n77	3460.02 - 3540.0	20	DFT-s OFDM	$\pi/2$ BPSK	24.79	301.19		
				QPSK	24.76	299.26	25.93	391.74
				16QAM	23.77	237.98	24.91	309.74
				64QAM	22.11	162.45		
				256QAM	20.23	105.49		
	CP-OFDM	QPSK	23.28	212.59				
	3457.5 - 3542.49	15	DFT-s OFDM	$\pi/2$ BPSK	24.63	290.37		
				QPSK	24.74	297.89	25.70	371.54
				16QAM	23.46	221.83	24.64	291.07
				64QAM	22.13	163.32		
				256QAM	20.16	103.72		
	CP-OFDM	QPSK	23.20	208.81				
	3455.01 - 3549.99	10	DFT-s OFDM	$\pi/2$ BPSK	24.36	272.68		
				QPSK	24.25	266.00	25.43	349.14
				16QAM	23.31	214.14	24.49	281.19
64QAM				21.70	148.00			
256QAM				19.90	97.66			
CP-OFDM	QPSK	22.81	191.12					

NR Band n77(3450 ~ 3550 MHz, SRS1)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3499.98	100	21.47	140.28		
	3495.0 - 3504.99	90	21.50	141.25		
	3490.02 - 3510.0	80	21.48	140.60		
	3485.01 - 3514.98	70	21.53	142.23		
	3480 - 3519.99	60	21.56	143.22		
	3475.02 - 3525	50	21.46	139.96		
	3470.01 - 3529.98	40	21.77	150.31		
	3465.0 - 3535.02	30	21.82	152.05	18.51	70.96
	3460.02 - 3540.0	20	21.69	147.57		
	3457.5 - 3542.49	15	21.72	148.59		
	3455.01 - 3549.99	10	21.65	146.22		

NR Band n77(3450 ~ 3550 MHz, SRS2)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3499.98	100	20.50	112.20		
	3495.0 - 3504.99	90	20.59	114.55		
	3490.02 - 3510.0	80	20.62	115.35		
	3485.01 - 3514.98	70	20.63	115.61		
	3480 - 3519.99	60	20.73	118.30		
	3475.02 - 3525	50	20.62	115.35		
	3470.01 - 3529.98	40	21.00	125.89		
	3465.0 - 3535.02	30	21.03	126.77	17.04	50.58
	3460.02 - 3540.0	20	20.93	123.88		
	3457.5 - 3542.49	15	20.95	124.45		
	3455.01 - 3549.99	10	23.89	244.91		

NR Band n77(3450 ~ 3550 MHz, SRS3)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3499.98	100	20.62	115.35		
	3495.0 - 3504.99	90	20.61	115.08		
	3490.02 - 3510.0	80	20.68	116.95		
	3485.01 - 3514.98	70	20.73	118.30		
	3480 - 3519.99	60	20.81	120.50		
	3475.02 - 3525	50	20.81	120.50		
	3470.01 - 3529.98	40	21.11	129.12		
	3465.0 - 3535.02	30	21.15	130.32	15.96	39.45
	3460.02 - 3540.0	20	21.03	126.77		
	3457.5 - 3542.49	15	21.04	127.06		
	3455.01 - 3549.99	10	20.97	125.03		

NR Band n77(3700 ~ 3980 MHz)

FCC Part 27								
Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Mode	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3750.0 - 3930.0	100	DFT-s OFDM	$\pi/2$ BPSK	24.57	286.63		
				QPSK	24.74	298.01	24.23	264.85
				16QAM	23.92	246.77	23.21	209.41
				64QAM	22.37	172.71		
				256QAM	20.02	100.43		
	CP-OFDM	QPSK	23.25	211.12				
	3745.02 - 3934.98	90	DFT-s OFDM	$\pi/2$ BPSK	24.65	291.90		
				QPSK	24.72	296.29	23.90	245.47
				16QAM	23.51	224.49	22.90	194.98
				64QAM	22.44	175.32		
				256QAM	20.09	102.11		
	CP-OFDM	QPSK	23.15	206.35				
	3740.01 - 3939.99	80	DFT-s OFDM	$\pi/2$ BPSK	24.59	287.65		
				QPSK	24.69	294.36	23.95	248.31
				16QAM	23.37	217.40	23.01	199.99
				64QAM	23.63	230.73		
				256QAM	23.71	234.76		
	CP-OFDM	QPSK	23.71	234.76				
	3735.02 - 3944.98	70	DFT-s OFDM	$\pi/2$ BPSK	24.25	266.07		
				QPSK	24.30	269.15	23.35	216.27
				16QAM	23.01	199.99	22.50	177.83
				64QAM	21.63	145.55		
				256QAM	19.23	83.75		
	CP-OFDM	QPSK	22.63	183.23				
	3730.02 - 3949.98	60	DFT-s OFDM	$\pi/2$ BPSK	24.45	278.32		
				QPSK	24.46	279.15	24.05	254.10
				16QAM	22.94	196.62	23.04	201.37
				64QAM	21.28	134.28		
				256QAM	19.45	88.19		
	CP-OFDM	QPSK	22.41	174.09				
	3725.01 - 3954.99	50	DFT-s OFDM	$\pi/2$ BPSK	24.67	292.77		
				QPSK	24.59	287.86	24.00	251.19
16QAM				23.41	219.13	23.06	202.30	
64QAM				22.30	169.98			
256QAM				19.99	99.88			
CP-OFDM	QPSK	23.03	201.09					
3720.02 - 3960.0	40	DFT-s OFDM	$\pi/2$ BPSK	24.85	305.73			
			QPSK	24.94	311.60	24.15	260.02	
			16QAM	23.71	234.93	23.22	209.89	
			64QAM	22.17	164.69			
			256QAM	20.13	103.03			
CP-OFDM	QPSK	23.15	206.33					
3715.02 - 3964.98	30	DFT-s OFDM	$\pi/2$ BPSK	24.72	296.67			
			QPSK	24.69	294.60	23.79	239.33	
			16QAM	23.61	229.82	22.91	195.43	
			64QAM	21.98	157.67			
			256QAM	20.13	102.93			
CP-OFDM	QPSK	23.00	199.33					

n77	3710.01 - 3969.99	20	DFT-s OFDM	$\pi/2$ BPSK	24.55	285.18		
				QPSK	24.50	281.69	23.50	223.87
				16QAM	23.51	224.61	22.69	185.78
				64QAM	21.92	155.50		
				256QAM	20.01	100.19		
	CP-OFDM	QPSK	23.06	202.31				
	3707.52 - 3972.48	15	DFT-s OFDM	$\pi/2$ BPSK	24.59	287.50		
				QPSK	24.60	288.07	23.80	239.88
				16QAM	23.53	225.40	22.89	194.54
				64QAM	22.14	163.76		
				256QAM	19.94	98.67		
	CP-OFDM	QPSK	23.00	199.73				
	3705.0 - 3975.0	10	DFT-s OFDM	$\pi/2$ BPSK	24.30	269.25		
				QPSK	24.24	265.47	23.77	238.23
				16QAM	23.21	209.27	22.82	191.43
64QAM				21.79	151.11			
256QAM				19.60	91.13			
CP-OFDM	QPSK	22.59	181.71					

NR Band n77(3700 ~ 3980 MHz, SRS1)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3750.0 - 3930.0	100	21.65	146.22		
	3745.02 - 3934.98	90	21.70	147.91		
	3740.01 - 3939.99	80	21.63	145.55		
	3735.02 - 3944.98	70	21.63	145.55		
	3730.02 - 3949.98	60	21.74	149.28		
	3725.01 - 3954.99	50	21.68	147.23		
	3720.02 - 3960.0	40	21.96	157.04	16.07	40.46
	3715.02 - 3964.98	30	21.88	154.17		
	3710.01 - 3969.99	20	21.72	148.59		
	3707.52 - 3972.48	15	21.90	154.88		
3705.0 - 3975.0	10	21.81	151.71			

NR Band n77(3700 ~ 3980 MHz, SRS2)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3750.0 - 3930.0	100	20.12	102.80		
	3745.02 - 3934.98	90	20.25	105.93		
	3740.01 - 3939.99	80	20.37	108.89		
	3735.02 - 3944.98	70	20.55	113.50		
	3730.02 - 3949.98	60	20.62	115.35		
	3725.01 - 3954.99	50	20.52	112.72		
	3720.02 - 3960.0	40	20.83	121.06		
	3715.02 - 3964.98	30	20.48	111.69	13.78	23.88
	3710.01 - 3969.99	20	20.54	113.24		
	3707.52 - 3972.48	15	20.40	109.65		
	3705.0 - 3975.0	10	20.36	108.64		

NR Band n77(3700 ~ 3980 MHz, SRS3)

FCC Part 27						
Band	Frequency Range [MHz]	BandWidth [MHz]	Conducted		Radiated	
			Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n77	3750.0 - 3930.0	100	21.65	146.22		
	3745.02 - 3934.98	90	21.68	147.23		
	3740.01 - 3939.99	80	21.65	146.22		
	3735.02 - 3944.98	70	21.62	145.21		
	3730.02 - 3949.98	60	21.77	150.31		
	3725.01 - 3954.99	50	21.68	147.23		
	3720.02 - 3960.0	40	21.85	153.11		
	3715.02 - 3964.98	30	21.88	154.17	15.10	32.36
	3710.01 - 3969.99	20	21.86	153.46		
	3707.52 - 3972.48	15	21.87	153.82		
	3705.0 - 3975.0	10	21.72	148.59		

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)	Peak Gain (dBi)
GSM1900/ WCDMA Band 2 / LTE Band 2/ LTE Band 25 / NR Band n2 1850 - 1915 MHz	-1.2
WCDMA Band 4 / LTE Band 4 / LTE Band 66 / NR Band n66 1710 - 1780 MHz	-2.7 (Main1 ANT) -2.12 (Sub2 ANT)
GSM850/WCDMA Band 5 / LTE Band 5 / LTE Band 26 / NR Band n5 814 - 849 MHz	-2.0
LTE Band 12 699 - 716 MHz	-4.1
LTE Band 13 777 - 787 MHz	-2.2
LTE Band 41(PC2) / NR Band n41 2496 ~ 2690 MHz	-3.47
NR Band n41(SRS1) 2496 ~ 2690 MHz	-1.5
NR Band n41(SRS2) 2496 ~ 2690 MHz	-2.49
NR Band n41(SRS3) 2496 ~ 2690 MHz	-3.9
NR Band n77(Lower) 3450 ~ 3550 MHz	-3.24
NR Band n77(Lower, SRS1) 3450 ~ 3550 MHz	-2.2
NR Band n77(Lower, SRS2) 3450 ~ 3550 MHz	-2.84
NR Band n77(Lower, SRS3) 3450 ~ 3550 MHz	-3.5
NR Band n77(Upper) 3700 ~ 3980 MHz	-0.81
NR Band n77(Upper, SRS1) 3700 ~ 3980 MHz	-2.1
NR Band n77(Upper, SRS2) 3700 ~ 3980 MHz	-5.69
NR Band n77(Upper, SRS3) 3700 ~ 3980 MHz	-3.4

5.4. WORST-CASE ORIENTATION

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

- GSM GPRS/EGPRS
- UMTS REL 99/HSDPA

For all 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. However, the out of band emissions and spurious radiation were only performed on bandwidth and RB offset(with RB size 1) with the highest power in QPSK.

For all 5G NR Bands(n5,n25,n41,n77), 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. All testing was performed using QPSK and 16QAM modulations to represent the worst case. However, the out of band emissions and spurious radiation were only performed on bandwidth and RB offset(with RB size 1) with the highest power in QPSK. Both NSA and SA modes were tested and worst case is reported.

For 5G NR n66, 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 that QPSK and 16QAM results were worst case. SA modes (Main1 ANT was tested and worst case is reported. NSA mode(Sub2 ANT) the worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. NSA mode worst-case scenario was radiated tested and reported. the out of band emissions and spurious radiation were only performed on bandwidth and RB offset(with RB size 1) with the highest conducted power in QPSK

This device supports SRS (sounding reference signal) 1, 2, 3 mode for NR TDD bands. For each SRS 1, 2 and 3, Conducted power and radiated measurement were performed through FTM mode provide by the customer. the worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. SRS1,2,3 the worstcase scenario was radiated tested and reported.

LTE Band 2

LTE Band 2 (Frequency range: 1850-1910 MHz) is covered by LTE Band 25 (Frequency range: 1850-1915 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

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, same maximum tune-up limit and same channel bandwidth.

LTE Band 17

LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range: 699-716 MHz) due to overlapping frequency range, same 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 same frequency range, same channel bandwidth and maximum tune-up limit is higher than LTE Band41(PC3).

NR Band 2

NR Band 2 (Frequency range: 1850-1910 MHz) is covered by NR Band 25 (Frequency range: 1850-1915 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

NR Band n66 (Sub Antenna)

Sub Antenna of NR Band n66 (Frequency range: 1710-1780 MHz) is covered by Main Antenna of NR Band n66 (Frequency range: 1710-1780 MHz) due to overlapping frequency range, lower maximum tune-up limit and same channel bandwidth.

Highest power setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
5	824.7	1.4	1	3
	836.5		1	3
	848.3		1	3
12	699.7	1.4	1	3
	707.5		1	3
	715.3		1	3
13	779.5	5	1	12
	782.0		1	12
	784.5		1	12
25	1855.0	10	1	25
	1882.5		1	25
	1910.0		1	25
26 (Part 90)	814.7	1.4	1	3
	823.3		1	5
26 (Straddle)	824.0	10	1	0
26 (Part 22)	824.7	1.4	1	3
	831.5		1	3
	844.0		1	5
41(PC2)	2506.0	20	1	99
	2593.0		1	99
	2680.0		1	0
66	1715.0	10	1	49
	1745.0		1	25
	1775.0		1	25

Highest power setting for each bands				
NR Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
5	831.5	15	1	1
	836.5		1	1
	841.5		1	1
25	1857.5	15	1	40
	1882.5		1	1
	1907.5		1	40
41	2526.01	40	1	1
	2592.99		1	104
	2660.00		1	104
66 (Main1 ANT)	1720.0	20	1	1
	1745.0		1	1
	1770.0		1	104
66 (Sub2 ANT)	1715.0	10	1	26
	1745.0		1	26
	1775.0		1	26
77 (3450-3550 MHz)	3470.01	40	1	104
	3499.98		1	104
	3529.98		1	53
77 (3700-3980 MHz)	3750.0	100	1	271
	3840.0		1	271
	3930.0		1	271

For LTE anchor, the band with highest output power was chosen among the possible combinations with NR Bands.

NR Band	LTE Band
5	<u>2</u> , 66
25	<u>12</u> , 13
41	4, <u>12</u> , 66
66	2, <u>5</u> , 12, 13
77 (3450-3550 MHz)	2, <u>5</u> , 12, 13, 25, 66
17 (3700-3980 MHz)	2, <u>5</u> , 12, 13, 25, 66

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	ERP/EIRP			RSE		
	X	Y	Z	X	Y	Z
GSM850	O	-	-	O	-	-
GSM1900	O	-	-	-	-	O
WCDMA B5	O	-	-	O	-	-
WCDMA B4	-	O	-	-	O	-
WCDMA B2	O	-	-	O	-	-
LTE B5	O	-	-	O	-	-
LTE B12	O	-	-	O	-	-
LTE B13	O	-	-	O	-	-
LTE B25	O	-	-	O	-	-
LTE B26	O	-	-	O	-	-
LTE B41(PC2)	O	-	-	-	O	-
LTE B66	-	O	-	-	O	-
NR n5	-	-	O	-	-	O
NR n25	O	-	-	O	-	-
NR n41	-	-	O	-	O	-
NR n41(SRS1)	O	-	-	-	O	-
NR n41(SRS2)	O	-	-	-	-	O
NR n41(SRS3)	-	O	-	-	-	O
NR n66 (Main1 ANT)	-	O	-	-	O	-
NR n66 (Sub2 ANT)	-	O	-	-	O	-
NR n77 (3450 ~ 3550 MHz)	-	-	O	-	-	O
NR n77 (SRS1) (3450 ~ 3550 MHz)	O	-	-	O	-	-
NR n77 (SRS2) (3450 ~ 3550 MHz)	-	-	O	-	-	O
NR n77 (SRS3) (3450 ~ 3550 MHz)	O	-	-	O	-	-
NR n77 (3700 ~ 3980 MHz)	-	O	-	-	O	-
NR n77 (SRS1) (3700 ~ 3980 MHz)	O	-	-	O	-	-
NR n77 (SRS2) (3700 ~ 3980 MHz)	-	-	O	-	-	O
NR n77 (SRS3) (3700 ~ 3980 MHz)	-	-	O	-	-	O

Note : For ERP/EIRP testing, the EUT didn't attached with travel adapter. But 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	R37T53J83Z9SEA	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02111ABBE	N/A

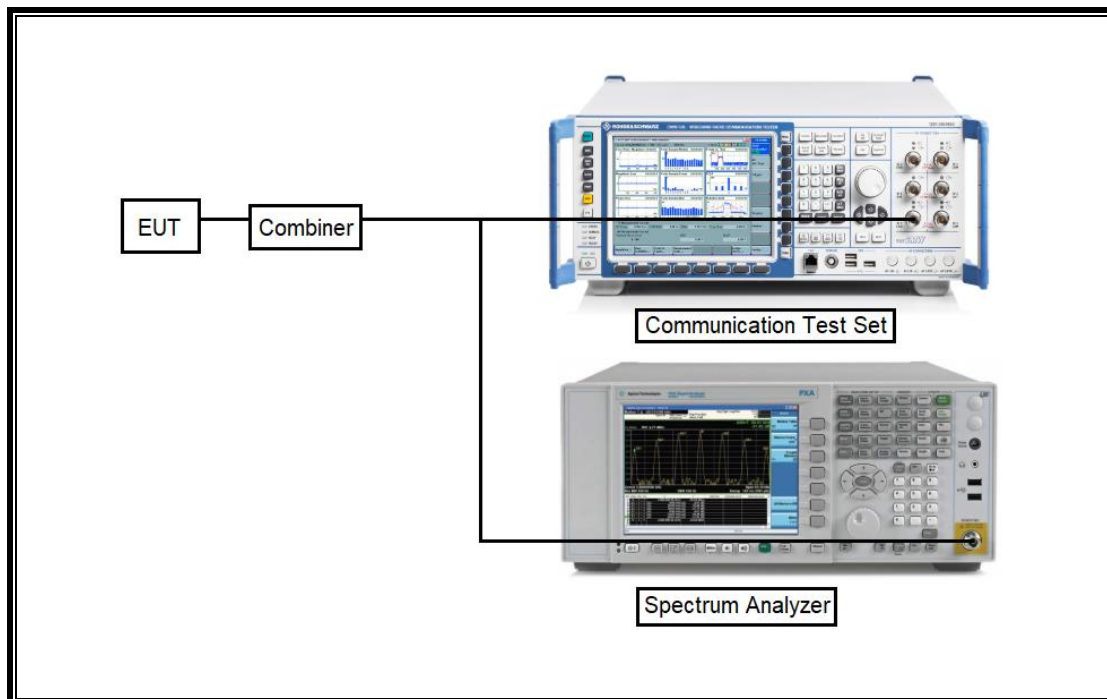
I/O CABLE

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

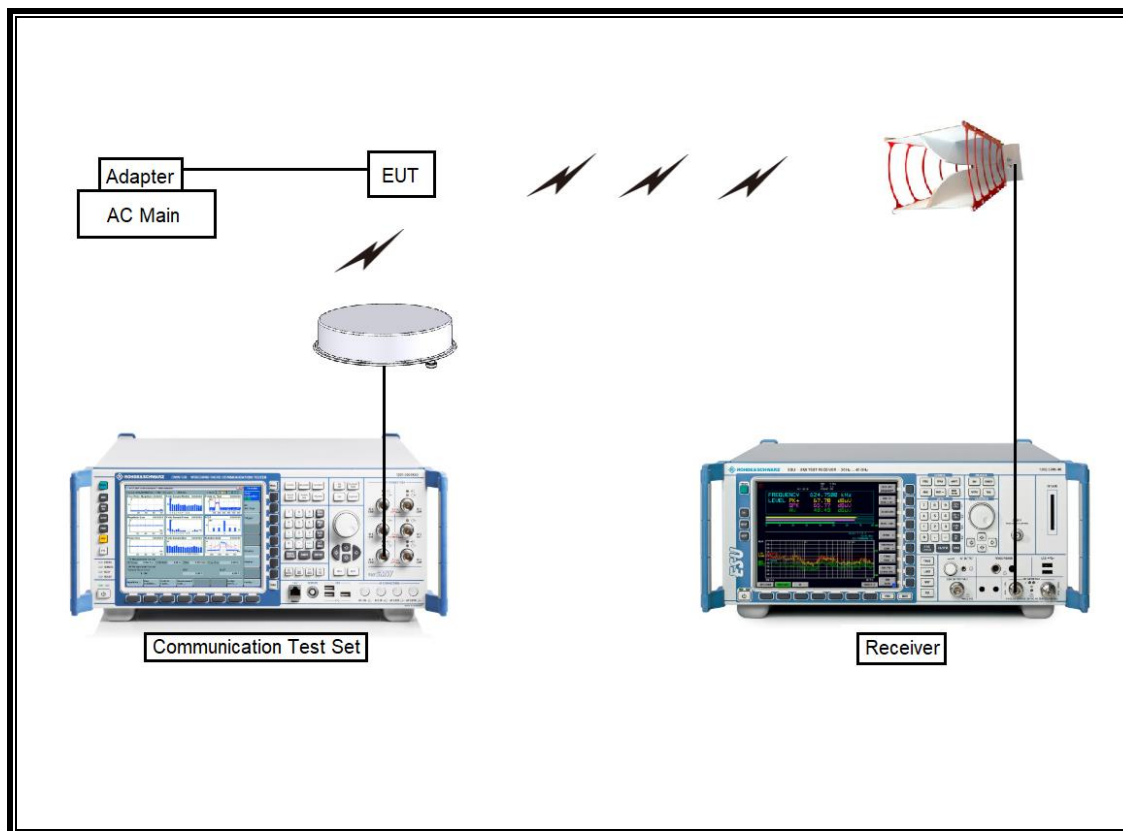
TEST SETUP

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 DB4	00164753	2023-02-08
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	00168645	2023-10-13
Preamplifier	ETS	3116C-PA	00168841	2023-08-04
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2024-08-15
Antenna, Horn, 18 GHz	ETS	3115	00161451	2024-08-21
Antenna, Horn, 18 GHz	ETS	3117	00168717	2024-08-21
Communications Test Set	R&S	CMW500	169796	2023-01-07
DC Power Supply	Agilent / HP	E3640A	MY54226395	2023-08-02
Preamplifier, 1000 MHz	Sonoma	310N	341282	2023-08-02
Preamplifier, 1000 MHz	Sonoma	310N	351741	2023-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	2023-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2023-08-01
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2023-08-01
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2023-08-03
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2023-08-01
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2023-08-02
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2023-07-29
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2023-08-01
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2023-08-01
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2023-08-01
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2023-08-01
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2023-08-01
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2023-08-01
Attenuator	PASTERNAK	PE7087-10	A009	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A001	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A008	2023-08-03
Attenuator	PASTERNAK	PE7004-10	2	2023-08-01
Attenuator	PASTERNAK	PE7395-10	A011	2023-08-03
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2023-10-06
Temperature Chamber	ESPEC	SH-642	93001109	2023-08-01
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2023-01-11
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2023-01-11
UXM5G Wireless Test Platform	KEYSIGHT	E7515B	MY58010202	2023-01-07
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 Result
2.1049	Occupied Band width (99%)	N/A	Conducted	Pass
22.917(a) 24.238(a) 27.53(g),(h), 27.53(l)(2) 27.53(n)(2) 90.691	Band Edge / Conducted Spurious Emission	-13dBm		Pass
27.53(m)	Conducted Spurious Emission	-25dBm		Pass
27.53(m) 90.691	Emission mask	Section 9.2.2		Pass
2.1046	Conducted output power	N/A		Pass
90.635(b)		50 dBm		Pass
22.355 24.235 27.54 90.213	Frequency Stability	2.5PPM		Pass
22.913(a)(5)	Effective Radiated Power	38.5dBm	Pass	
27.50(c)(10) 27.50(b)(10)		34.77dBm	Pass	
24.232(c) 27.50(h)(2) 27.50(j)(3) 27.50(k)(3)	Equivalent Isotropic Radiated Power	33dBm	Pass	
27.50(d)(4)		30dBm	Pass	
22.917(a) 24.238(a) 27.53 (g),(h) 90.691	Radiated Spurious Emission	-13dBm	Pass	
27.53(m) 27.53(l)(2) 27.53(n)(2)		-25dBm	Pass	
			Radiated	

8. LIMITS AND 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 a CMW500 Test Set and configured to operate at maximum power. The PAR were measured on the Spectrum Analyzer.

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

GSM 850

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Average Power (dBm)			
					Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM (Voice)	CS1	1	128	824.2	31.77	22.74	33.7	24.7
			190	836.6	32.29	23.26		
			251	848.8	33.10	24.07		
GPRS (GMSK)	CS1	1	128	824.2	32.37	23.34	33.7	24.7
			190	836.6	32.28	23.25		
			251	848.8	33.08	24.05		
		2	128	824.2	30.71	24.69	32.0	26.0
			190	836.6	30.64	24.62		
			251	848.8	31.22	25.20		
		3	128	824.2	28.91	24.65	30.0	25.7
			190	836.6	28.84	24.58		
			251	848.8	29.17	24.91		
		4	128	824.2	27.12	24.11	27.5	24.5
			190	836.6	27.06	24.05		
			251	848.8	27.50	24.49		
EGPRS (8PSK)	MCS5	1	128	824.2	25.95	16.92	27.5	18.5
			190	836.6	26.79	17.76		
			251	848.8	27.17	18.14		
		2	128	824.2	24.44	18.42	25.7	19.7
			190	836.6	24.89	18.87		
			251	848.8	25.21	19.19		
		3	128	824.2	22.41	18.15	23.7	19.4
			190	836.6	22.89	18.63		
			251	848.8	23.20	18.94		
		4	128	824.2	21.25	18.24	22.5	19.5
			190	836.6	21.90	18.89		
			251	848.8	22.31	19.30		

GSM1900

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Average Power (dBm)			
					Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM (Voice)	CS1	1	512	1850.2	30.11	21.08	31.0	22.0
			661	1880.0	30.08	21.05		
			810	1909.8	30.46	21.43		
GPRS (GMSK)	CS1	1	512	1850.2	30.08	21.05	31.0	22.0
			661	1880.0	30.01	20.98		
			810	1909.8	30.40	21.37		
		2	512	1850.2	27.85	21.83	29.0	23.0
			661	1880.0	27.52	21.50		
			810	1909.8	27.95	21.93		
		3	512	1850.2	26.17	21.91	27.0	22.7
			661	1880.0	26.01	21.75		
			810	1909.8	26.30	22.04		
		4	512	1850.2	24.17	21.16	25.5	22.5
			661	1880.0	24.14	21.13		
			810	1909.8	24.61	21.60		
EGPRS (8PSK)	MCS5	1	512	1850.2	25.73	16.70	26.5	17.5
			661	1880.0	25.88	16.85		
			810	1909.8	26.20	17.17		
		2	512	1850.2	23.94	17.92	24.7	18.7
			661	1880.0	23.70	17.68		
			810	1909.8	23.94	17.92		
		3	512	1850.2	21.99	17.73	22.7	18.4
			661	1880.0	21.63	17.37		
			810	1909.8	21.87	17.61		
		4	512	1850.2	20.80	17.79	21.7	18.7
			661	1880.0	20.86	17.85		
			810	1909.8	21.16	18.15		

WCDMA B5

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.53	N/A	25.5
		4183	836.6	24.44		
		4233	846.6	24.29		
HSDPA	Subtest 1	4132	826.4	23.54	0	24.5
		4183	836.6	23.42		
		4233	846.6	23.26		
	Subtest 2	4132	826.4	23.53	0	24.5
		4183	836.6	23.40		
		4233	846.6	23.24		
	Subtest 3	4132	826.4	23.02	0.5	24.0
		4183	836.6	22.91		
		4233	846.6	22.75		
	Subtest 4	4132	826.4	23.03	0.5	24.0
		4183	836.6	22.91		
		4233	846.6	22.76		
HSUPA	Subtest 1	4132	826.4	23.53	0	24.5
		4183	836.6	23.39		
		4233	846.6	23.21		
	Subtest 2	4132	826.4	21.48	2	22.5
		4183	836.6	21.43		
		4233	846.6	21.22		
	Subtest 3	4132	826.4	22.51	1	23.5
		4183	836.6	22.39		
		4233	846.6	22.25		
	Subtest 4	4132	826.4	21.54	2	22.5
		4183	836.6	21.40		
		4233	846.6	21.24		
	Subtest 5	4132	826.4	23.54	0	24.5
		4183	836.6	23.43		
		4233	846.6	23.24		
DC-HSDPA	Subtest 1	4132	826.4	23.22	0	24.5
		4183	836.6	23.09		
		4233	846.6	22.95		
	Subtest 2	4132	826.4	23.18	0	24.5
		4183	836.6	23.07		
		4233	846.6	22.92		
	Subtest 3	4132	826.4	22.68	0.5	24.0
		4183	836.6	22.55		
		4233	846.6	22.42		
	Subtest 4	4132	826.4	21.53	0.5	24.0
		4183	836.6	21.88		
		4233	846.6	21.98		

WCDMA B4

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	23.06	N/A	24.0
		1413	1732.6	23.39		
		1513	1752.6	23.46		
HSDPA	Subtest 1	1312	1712.4	22.05	0	24.0
		1413	1732.6	22.36		
		1513	1752.6	22.44		
	Subtest 2	1312	1712.4	22.07	0	24.0
		1413	1732.6	22.37		
		1513	1752.6	22.46		
	Subtest 3	1312	1712.4	21.55	0.5	23.5
		1413	1732.6	21.87		
		1513	1752.6	21.96		
	Subtest 4	1312	1712.4	21.58	0.5	23.5
		1413	1732.6	21.87		
		1513	1752.6	21.94		
HSUPA	Subtest 1	1312	1712.4	22.03	0	24.0
		1413	1732.6	22.37		
		1513	1752.6	22.46		
	Subtest 2	1312	1712.4	20.06	2	22.0
		1413	1732.6	20.37		
		1513	1752.6	20.47		
	Subtest 3	1312	1712.4	21.07	1	23.0
		1413	1732.6	21.39		
		1513	1752.6	21.48		
	Subtest 4	1312	1712.4	20.06	2	22.0
		1413	1732.6	20.40		
		1513	1752.6	20.47		
	Subtest 5	1312	1712.4	21.61	0	24.0
		1413	1732.6	21.96		
		1513	1752.6	22.47		
DC-HSDPA	Subtest 1	1312	1712.4	22.10	0	24.0
		1413	1732.6	22.42		
		1513	1752.6	22.48		
	Subtest 2	1312	1712.4	22.10	0	24.0
		1413	1732.6	22.38		
		1513	1752.6	22.49		
	Subtest 3	1312	1712.4	21.58	0.5	23.5
		1413	1732.6	21.91		
		1513	1752.6	21.98		
	Subtest 4	1312	1712.4	21.59	0.5	23.5
		1413	1732.6	21.89		
		1513	1752.6	21.97		

WCDMA B2

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	23.39	N/A	24.0
		9400	1880.0	23.11		
		9538	1907.6	23.58		
HSDPA	Subtest 1	9262	1852.4	22.43	0	24.0
		9400	1880.0	22.07		
		9538	1907.6	22.54		
	Subtest 2	9262	1852.4	22.37	0	24.0
		9400	1880.0	22.09		
		9538	1907.6	22.54		
	Subtest 3	9262	1852.4	21.92	0.5	23.5
		9400	1880.0	21.61		
		9538	1907.6	22.07		
	Subtest 4	9262	1852.4	21.93	0.5	23.5
		9400	1880.0	21.61		
		9538	1907.6	22.05		
HSUPA	Subtest 1	9262	1852.4	22.38	0	24.0
		9400	1880.0	22.11		
		9538	1907.6	22.59		
	Subtest 2	9262	1852.4	20.38	2	22.0
		9400	1880.0	20.23		
		9538	1907.6	20.43		
	Subtest 3	9262	1852.4	21.48	1	23.0
		9400	1880.0	21.20		
		9538	1907.6	21.41		
	Subtest 4	9262	1852.4	20.48	2	22.0
		9400	1880.0	20.23		
		9538	1907.6	20.39		
	Subtest 5	9262	1852.4	22.48	0	24.0
		9400	1880.0	22.23		
		9538	1907.6	22.42		
DC-HSDPA	Subtest 1	9262	1852.4	22.37	0	24.0
		9400	1880.0	22.12		
		9538	1907.6	22.60		
	Subtest 2	9262	1852.4	22.40	0	24.0
		9400	1880.0	22.11		
		9538	1907.6	22.58		
	Subtest 3	9262	1852.4	21.92	0.5	23.5
		9400	1880.0	21.58		
		9538	1907.6	22.10		
	Subtest 4	9262	1852.4	21.93	0.5	23.5
		9400	1880.0	21.63		
		9538	1907.6	22.10		

LTE Band 2

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				18700 1860 MHz	18900 1880 MHz	19100 1900 MHz		
20 MHz	QPSK	1	0		22.68		0.0	24.0
		1	49		22.63		0.0	24.0
		1	99		22.68		0.0	24.0
		50	0		21.73		1.0	23.0
		50	24		21.71		1.0	23.0
		50	50		21.68		1.0	23.0
		100	0		21.71		1.0	23.0
	16QAM	1	0		22.07		1.0	23.0
		1	49		22.09		1.0	23.0
		1	99		22.03		1.0	23.0
		50	0		20.71		2.0	22.0
		50	24		20.73		2.0	22.0
		50	50		20.71		2.0	22.0
		100	0		20.71		2.0	22.0
	64QAM	1	0		20.85		2.0	22.0
		1	49		20.80		2.0	22.0
		1	99		20.82		2.0	22.0
		50	0		19.73		3.0	21.0
		50	24		19.72		3.0	21.0
		50	50		19.72		3.0	21.0
		100	0		19.74		3.0	21.0
	256QAM	1	0		17.89		5.0	19.0
		1	49		17.79		5.0	19.0
		1	99		17.95		5.0	19.0
50		0		17.73		5.0	19.0	
50		24		17.72		5.0	19.0	
50		50		17.71		5.0	19.0	
100		0		17.72		5.0	19.0	
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18675 1857.5 MHz	18900 1880 MHz	19125 1902.5 MHz		
15 MHz	QPSK	1	0		22.64		0.0	24.0
		1	37		22.61		0.0	24.0
		1	74		22.58		0.0	24.0
		36	0		21.72		1.0	23.0
		36	20		21.66		1.0	23.0
		36	39		21.68		1.0	23.0
		75	0		21.68		1.0	23.0
	16QAM	1	0		22.03		1.0	23.0
		1	37		21.89		1.0	23.0
		1	74		21.94		1.0	23.0
		36	0		20.70		2.0	22.0
		36	20		20.71		2.0	22.0
		36	39		20.69		2.0	22.0
		75	0		20.68		2.0	22.0
	64QAM	1	0		20.79		2.0	22.0
		1	37		20.77		2.0	22.0
		1	74		20.79		2.0	22.0
		36	0		19.72		3.0	21.0
		36	20		19.71		3.0	21.0
		36	39		19.70		3.0	21.0
		75	0		19.70		3.0	21.0
	256QAM	1	0		17.66		5.0	19.0
		1	37		17.66		5.0	19.0
		1	74		17.80		5.0	19.0
36		0		17.72		5.0	19.0	
36		20		17.69		5.0	19.0	
36		39		17.72		5.0	19.0	
75		0		17.71		5.0	19.0	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18650	18900	19150		
				1855 MHz	1880 MHz	1905 MHz		
10 MHz	QPSK	1	0		22.81		0.0	24.0
		1	25		22.79		0.0	24.0
		1	49		22.75		0.0	24.0
		25	0		21.84		1.0	23.0
		25	12		21.84		1.0	23.0
		25	25		21.82		1.0	23.0
	16QAM	50	0		21.81		1.0	23.0
		1	0		22.12		1.0	23.0
		1	25		22.16		1.0	23.0
		1	49		22.16		1.0	23.0
		25	0		20.86		2.0	22.0
		25	12		20.89		2.0	22.0
	64QAM	25	25		20.86		2.0	22.0
		50	0		20.83		2.0	22.0
		1	0		20.96		2.0	22.0
		1	25		21.00		2.0	22.0
		1	49		20.95		2.0	22.0
		25	0		19.86		3.0	21.0
	256QAM	25	12		19.86		3.0	21.0
		25	25		19.83		3.0	21.0
		50	0		19.84		3.0	21.0
		1	0		17.92		5.0	19.0
		1	25		17.94		5.0	19.0
		1	49		17.89		5.0	19.0
5 MHz	QPSK	25	0		17.83		5.0	19.0
		25	12		17.88		5.0	19.0
		25	25		17.83		5.0	19.0
		50	0		17.82		5.0	19.0
		1	0		22.76		0.0	24.0
		1	12		22.88		0.0	24.0
	16QAM	1	24		22.79		0.0	24.0
		12	0		21.82		1.0	23.0
		12	7		21.81		1.0	23.0
		12	13		21.82		1.0	23.0
		25	0		21.79		1.0	23.0
		1	0		22.09		1.0	23.0
	64QAM	1	12		22.25		1.0	23.0
		1	24		22.10		1.0	23.0
		12	0		20.85		2.0	22.0
		12	7		20.90		2.0	22.0
		12	13		20.86		2.0	22.0
		25	0		20.86		2.0	22.0
	256QAM	1	0		20.93		2.0	22.0
		1	12		21.01		2.0	22.0
		1	24		20.92		2.0	22.0
		12	0		19.84		3.0	21.0
		12	7		19.83		3.0	21.0
		12	13		19.82		3.0	21.0
256QAM	25	0		19.78		3.0	21.0	
	1	0		17.84		5.0	19.0	
	1	12		17.90		5.0	19.0	
	1	24		17.85		5.0	19.0	
	12	0		17.80		5.0	19.0	
	12	7		17.87		5.0	19.0	
256QAM	12	13		17.81		5.0	19.0	
	25	0		17.83		5.0	19.0	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18615	18900	19185		
				1851.5 MHz	1880 MHz	1908.5 MHz		
3 MHz	QPSK	1	0		22.69		0.0	24.0
		1	8		22.79		0.0	24.0
		1	14		22.67		0.0	24.0
		8	0		21.79		1.0	23.0
		8	4		21.81		1.0	23.0
		8	7		21.83		1.0	23.0
	16QAM	15	0		21.79		1.0	23.0
		1	0		22.08		1.0	23.0
		1	8		22.17		1.0	23.0
		1	14		22.09		1.0	23.0
		8	0		20.86		2.0	22.0
		8	4		20.90		2.0	22.0
	64QAM	8	7		20.86		2.0	22.0
		15	0		20.79		2.0	22.0
		1	0		20.80		2.0	22.0
		1	8		20.88		2.0	22.0
		1	14		20.82		2.0	22.0
		8	0		19.86		3.0	21.0
	256QAM	8	4		19.87		3.0	21.0
		8	7		19.90		3.0	21.0
		15	0		19.83		3.0	21.0
		1	0		17.94		5.0	19.0
		1	8		17.95		5.0	19.0
		1	14		17.89		5.0	19.0
1.4 MHz	QPSK	8	0		17.80		5.0	19.0
		8	4		17.88		5.0	19.0
		8	7		17.85		5.0	19.0
		15	0		17.80		5.0	19.0
		1	0		22.76		0.0	24.0
		1	3		22.80		0.0	24.0
	16QAM	1	5		22.75		0.0	24.0
		3	0		22.73		1.0	23.0
		3	1		22.72		1.0	23.0
		3	3		22.76		1.0	23.0
		6	0		21.74		1.0	23.0
		1	0		22.04		1.0	23.0
	64QAM	1	3		22.16		1.0	23.0
		1	5		22.06		1.0	23.0
		3	0		21.87		2.0	22.0
		3	1		21.95		2.0	22.0
		3	3		21.93		2.0	22.0
		6	0		20.85		2.0	22.0
	256QAM	1	0		20.87		2.0	22.0
		1	3		20.91		2.0	22.0
		1	5		20.86		2.0	22.0
		3	0		20.90		3.0	21.0
		3	1		20.90		3.0	21.0
		3	3		20.92		3.0	21.0
QPSK	6	0		19.82		3.0	21.0	
	1	0		17.89		5.0	19.0	
	1	3		17.96		5.0	19.0	
	1	5		17.87		5.0	19.0	
	3	0		17.80		5.0	19.0	
	3	1		17.77		5.0	19.0	
16QAM	3	3		17.76		5.0	19.0	
	6	0		17.86		5.0	19.0	
	1	0		20.87		2.0	22.0	
	1	3		20.91		2.0	22.0	
	1	5		20.86		2.0	22.0	
	3	0		20.90		3.0	21.0	
64QAM	3	1		20.90		3.0	21.0	
	3	3		20.92		3.0	21.0	
	6	0		19.82		3.0	21.0	
	1	0		17.89		5.0	19.0	
	1	3		17.96		5.0	19.0	
	1	5		17.87		5.0	19.0	
256QAM	3	0		17.80		5.0	19.0	
	3	1		17.77		5.0	19.0	
	3	3		17.76		5.0	19.0	
	6	0		17.86		5.0	19.0	
	1	0		20.87		2.0	22.0	
	1	3		20.91		2.0	22.0	

LTE Band 4

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				20050 1720 MHz	20175 1732.5 MHz	20300 1745 MHz		
20 MHz	QPSK	1	0		22.49		0.0	24.0
		1	49		22.59		0.0	24.0
		1	99		22.72		0.0	24.0
		50	0		21.51		1.0	23.0
		50	24		21.59		1.0	23.0
		50	50		21.67		1.0	23.0
		100	0		21.58		1.0	23.0
	16QAM	1	0		21.80		1.0	23.0
		1	49		22.18		1.0	23.0
		1	99		22.14		1.0	23.0
		50	0		20.51		2.0	22.0
		50	24		20.62		2.0	22.0
		50	50		20.71		2.0	22.0
		100	0		20.60		2.0	22.0
	64QAM	1	0		21.06		2.0	22.0
		1	49		21.18		2.0	22.0
		1	99		21.22		2.0	22.0
		50	0		19.96		3.0	21.0
		50	24		20.01		3.0	21.0
		50	50		20.07		3.0	21.0
		100	0		19.99		3.0	21.0
	256QAM	1	0		18.00		5.0	19.0
		1	49		18.19		5.0	19.0
		1	99		18.27		5.0	19.0
50		0		17.92		5.0	19.0	
50		24		17.99		5.0	19.0	
50		50		18.04		5.0	19.0	
100		0		17.98		5.0	19.0	
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20025 1717.5 MHz	20175 1732.5 MHz	20325 1747.5 MHz		
				15 MHz	QPSK	1	0	
1	37		22.61				0.0	24.0
1	74		22.64				0.0	24.0
36	0		21.58				1.0	23.0
36	20		21.58				1.0	23.0
36	39		21.67				1.0	23.0
75	0		21.57				1.0	23.0
16QAM	1	0			21.86		1.0	23.0
	1	37			21.95		1.0	23.0
	1	74			22.13		1.0	23.0
	36	0			20.61		2.0	22.0
	36	20			20.61		2.0	22.0
	36	39			20.67		2.0	22.0
	75	0			20.59		2.0	22.0
64QAM	1	0			20.74		2.0	22.0
	1	37			20.80		2.0	22.0
	1	74			20.85		2.0	22.0
	36	0			19.65		3.0	21.0
	36	20			19.64		3.0	21.0
	36	39			19.70		3.0	21.0
	75	0			19.65		3.0	21.0
256QAM	1	0			17.64		5.0	19.0
	1	37			17.84		5.0	19.0
	1	74			17.83		5.0	19.0
	36	0		17.67		5.0	19.0	
	36	20		17.67		5.0	19.0	
	36	39		17.75		5.0	19.0	
	75	0		17.67		5.0	19.0	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20000	20175	20350		
				1715 MHz	1732.5 MHz	1750 MHz		
10 MHz	QPSK	1	0		22.64		0.0	24.0
		1	25		22.81		0.0	24.0
		1	49		22.73		0.0	24.0
		25	0		21.77		1.0	23.0
		25	12		21.78		1.0	23.0
		25	25		21.86		1.0	23.0
	50	0		21.77		1.0	23.0	
	16QAM	1	0		22.10		1.0	23.0
		1	25		22.17		1.0	23.0
		1	49		22.07		1.0	23.0
		25	0		20.80		2.0	22.0
		25	12		20.83		2.0	22.0
		25	25		20.90		2.0	22.0
	50	0		20.78		2.0	22.0	
	64QAM	1	0		20.84		2.0	22.0
		1	25		20.97		2.0	22.0
		1	49		20.85		2.0	22.0
		25	0		19.81		3.0	21.0
		25	12		19.85		3.0	21.0
		25	25		19.90		3.0	21.0
	50	0		19.82		3.0	21.0	
	256QAM	1	0		17.79		5.0	19.0
		1	25		17.99		5.0	19.0
		1	49		17.94		5.0	19.0
25		0		17.80		5.0	19.0	
25		12		17.82		5.0	19.0	
25		25		17.89		5.0	19.0	
50	0		17.78		5.0	19.0		
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				19975	20175	20375		
				1712.5 MHz	1732.5 MHz	1752.5 MHz		
5 MHz	QPSK	1	0		22.72		0.0	24.0
		1	12		22.80		0.0	24.0
		1	24		22.73		0.0	24.0
		12	0		21.73		1.0	23.0
		12	7		21.78		1.0	23.0
		12	13		21.83		1.0	23.0
	25	0		21.74		1.0	23.0	
	16QAM	1	0		22.06		1.0	23.0
		1	12		22.24		1.0	23.0
		1	24		22.16		1.0	23.0
		12	0		20.83		2.0	22.0
		12	7		20.85		2.0	22.0
		12	13		20.92		2.0	22.0
	25	0		20.76		2.0	22.0	
	64QAM	1	0		20.97		2.0	22.0
		1	12		21.05		2.0	22.0
		1	24		21.00		2.0	22.0
		12	0		19.79		3.0	21.0
		12	7		19.86		3.0	21.0
		12	13		19.90		3.0	21.0
	25	0		19.80		3.0	21.0	
	256QAM	1	0		17.75		5.0	19.0
		1	12		17.92		5.0	19.0
		1	24		17.83		5.0	19.0
12		0		17.80		5.0	19.0	
12		7		17.80		5.0	19.0	
12		13		17.89		5.0	19.0	
25	0		17.76		5.0	19.0		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				19965	20175	20385		
				1711.5 MHz	1732.5 MHz	1753.5 MHz		
3 MHz	QPSK	1	0		22.68		0.0	24.0
		1	8		22.81		0.0	24.0
		1	14		22.72		0.0	24.0
		8	0		21.74		1.0	23.0
		8	4		21.76		1.0	23.0
		8	7		21.85		1.0	23.0
	16QAM	15	0		21.75		1.0	23.0
		1	0		22.07		1.0	23.0
		1	8		22.19		1.0	23.0
		1	14		22.09		1.0	23.0
		8	0		20.79		2.0	22.0
		8	4		20.81		2.0	22.0
	64QAM	8	7		20.89		2.0	22.0
		15	0		20.78		2.0	22.0
		1	0		20.92		2.0	22.0
		1	8		21.02		2.0	22.0
		1	14		20.95		2.0	22.0
		8	0		19.80		3.0	21.0
	256QAM	8	4		19.84		3.0	21.0
		8	7		19.92		3.0	21.0
		15	0		19.78		3.0	21.0
		1	0		17.87		5.0	19.0
		1	8		17.99		5.0	19.0
		1	14		17.99		5.0	19.0
1.4 MHz	QPSK	8	0		17.76		5.0	19.0
		8	4		17.80		5.0	19.0
		8	7		17.91		5.0	19.0
		15	0		17.76		5.0	19.0
		1	0		22.77		0.0	24.0
		1	3		22.80		0.0	24.0
	16QAM	1	5		22.79		0.0	24.0
		3	0		22.74		0.0	24.0
		3	1		22.77		0.0	24.0
		3	3		22.81		0.0	24.0
		6	0		21.73		1.0	23.0
		1	0		22.06		1.0	23.0
	64QAM	1	3		22.08		1.0	23.0
		1	5		22.06		1.0	23.0
		3	0		21.93		1.0	23.0
		3	1		21.95		1.0	23.0
		3	3		21.92		1.0	23.0
		6	0		20.75		2.0	22.0
	256QAM	1	0		20.88		2.0	22.0
		1	3		20.93		2.0	22.0
		1	5		20.87		2.0	22.0
		3	0		20.87		2.0	22.0
		3	1		20.87		2.0	22.0
		3	3		20.89		2.0	22.0
QPSK	6	0		19.74		3.0	21.0	
	1	0		17.89		5.0	19.0	
	1	3		17.99		5.0	19.0	
	1	5		17.94		5.0	19.0	
	3	0		17.79		5.0	19.0	
	3	1		17.81		5.0	19.0	
16QAM	3	3		17.89		5.0	19.0	
	6	0		17.74		5.0	19.0	

LTE Band 5

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				20450	20525	20600		
				829 MHz	836.5 MHz	844 MHz		
10 MHz	QPSK	1	0	25.10	24.69	24.82	0.0	25.5
		1	25	25.07	24.66	24.78	0.0	25.5
		1	49	24.97	24.57	24.69	0.0	25.5
		25	0	24.09	23.70	23.82	1.0	24.5
		25	12	24.09	23.67	23.83	1.0	24.5
		25	25	24.03	23.64	23.76	1.0	24.5
		50	0	24.08	23.68	23.80	1.0	24.5
	16QAM	1	0	24.45	24.01	24.26	1.0	24.5
		1	25	24.50	23.96	24.18	1.0	24.5
		1	49	24.42	23.87	24.15	1.0	24.5
		25	0	23.12	22.72	22.83	2.0	23.5
		25	12	23.10	22.68	22.82	2.0	23.5
		25	25	23.05	22.66	22.77	2.0	23.5
		50	0	23.05	22.65	22.80	2.0	23.5
	64QAM	1	0	23.16	21.44	22.97	2.0	23.5
		1	25	23.12	21.52	22.95	2.0	23.5
		1	49	23.03	21.62	22.86	2.0	23.5
		25	0	22.12	20.48	21.82	3.0	22.5
		25	12	22.09	20.45	21.82	3.0	22.5
		25	25	22.04	20.44	21.77	3.0	22.5
		50	0	22.06	20.44	21.80	3.0	22.5
	256QAM	1	0	20.24	18.38	20.00	5.0	20.5
		1	25	20.24	18.58	19.99	5.0	20.5
		1	49	20.14	18.66	19.89	5.0	20.5
		25	0	20.11	18.51	19.85	5.0	20.5
		25	12	20.10	18.34	19.86	5.0	20.5
		25	25	20.06	18.40	19.80	5.0	20.5
		50	0	20.08	18.44	19.81	5.0	20.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20425	20525	20625		
				826.5 MHz	836.5 MHz	846.5 MHz		
				5 MHz	QPSK	1	0	24.84
1	12	24.91	24.82			24.84	0.0	25.5
1	24	24.79	24.73			24.72	0.0	25.5
12	0	23.83	23.74			23.58	1.0	24.5
12	7	23.83	23.78			23.59	1.0	24.5
12	13	23.82	23.70			23.54	1.0	24.5
25	0	23.83	23.74			23.74	1.0	24.5
16QAM	1	0	23.85		24.13	24.08	1.0	24.5
	1	12	23.99		24.16	24.16	1.0	24.5
	1	24	23.81		24.06	24.01	1.0	24.5
	12	0	22.69		22.75	22.58	2.0	23.5
	12	7	22.72		22.75	22.60	2.0	23.5
	12	13	22.70		22.72	22.55	2.0	23.5
	25	0	22.83		22.73	22.77	2.0	23.5
64QAM	1	0	22.93		22.89	23.01	2.0	23.5
	1	12	22.93		22.95	23.05	2.0	23.5
	1	24	22.84		22.89	22.99	2.0	23.5
	12	0	21.88		21.80	21.58	3.0	22.5
	12	7	21.89		21.79	21.61	3.0	22.5
	12	13	21.86		21.75	21.57	3.0	22.5
	25	0	21.84		21.75	21.73	3.0	22.5
256QAM	1	0	19.97		19.88	19.86	5.0	20.5
	1	12	20.01		19.95	19.90	5.0	20.5
	1	24	19.93		19.89	19.89	5.0	20.5
	12	0	19.88		19.77	19.76	5.0	20.5
	12	7	19.89		19.78	19.80	5.0	20.5
	12	13	19.88		19.77	19.78	5.0	20.5
	25	0	19.89		19.77	19.75	5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20415	20525	20635		
				825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	24.78	24.65	24.41	0.0	25.5
		1	8	24.89	24.70	24.56	0.0	25.5
		1	14	24.77	24.59	24.42	0.0	25.5
		8	0	23.87	23.67	23.48	1.0	24.5
		8	4	23.89	23.69	23.52	1.0	24.5
		8	7	23.89	23.69	23.51	1.0	24.5
	15	0	23.87	23.65	23.50	1.0	24.5	
	16QAM	1	0	23.94	23.82	23.59	1.0	24.5
		1	8	24.06	23.83	23.75	1.0	24.5
		1	14	23.90	23.77	23.55	1.0	24.5
		8	0	22.90	22.67	22.50	2.0	23.5
		8	4	22.93	22.71	22.57	2.0	23.5
		8	7	22.91	22.73	22.54	2.0	23.5
	15	0	22.84	22.64	22.48	2.0	23.5	
	64QAM	1	0	22.94	22.89	22.71	2.0	23.5
		1	8	23.08	22.92	22.80	2.0	23.5
		1	14	22.92	22.85	22.68	2.0	23.5
		8	0	21.85	21.74	21.46	3.0	22.5
		8	4	21.88	21.78	21.50	3.0	22.5
		8	7	21.88	21.77	21.54	3.0	22.5
	15	0	21.88	21.67	21.48	3.0	22.5	
	256QAM	1	0	19.98	19.75	19.55	5.0	20.5
		1	8	20.08	19.84	19.72	5.0	20.5
		1	14	19.91	19.72	19.58	5.0	20.5
8		0	19.91	19.72	19.51	5.0	20.5	
8		4	19.93	19.72	19.56	5.0	20.5	
8		7	19.89	19.76	19.52	5.0	20.5	
15	0	19.84	19.71	19.48	5.0	20.5		
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20407	20525	20643		
				824.7 MHz	836.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	24.79	24.67	24.46	0.0	25.5
		1	3	24.85	24.70	24.53	0.0	25.5
		1	5	24.82	24.65	24.48	0.0	25.5
		3	0	24.82	24.68	24.48	0.0	25.5
		3	1	24.85	24.69	24.48	0.0	25.5
		3	3	24.86	24.69	24.47	0.0	25.5
	6	0	23.84	23.66	23.46	1.0	24.5	
	16QAM	1	0	23.96	23.80	23.61	1.0	24.5
		1	3	23.95	23.96	23.69	1.0	24.5
		1	5	23.98	23.84	23.68	1.0	24.5
		3	0	23.94	23.79	23.57	1.0	24.5
		3	1	23.91	23.86	23.61	1.0	24.5
		3	3	23.93	23.77	23.60	1.0	24.5
	6	0	22.86	22.64	22.52	2.0	23.5	
	64QAM	1	0	23.03	22.80	22.65	2.0	23.5
		1	3	23.09	22.86	22.62	2.0	23.5
		1	5	23.09	22.81	22.63	2.0	23.5
		3	0	22.93	22.75	22.56	2.0	23.5
		3	1	22.94	22.76	22.57	2.0	23.5
		3	3	22.93	22.78	22.53	2.0	23.5
	6	0	21.85	21.67	21.48	3.0	22.5	
	256QAM	1	0	20.09	19.77	19.60	5.0	20.5
		1	3	20.05	19.84	19.62	5.0	20.5
		1	5	20.02	19.72	19.59	5.0	20.5
3		0	19.92	19.73	19.57	5.0	20.5	
3		1	19.94	19.76	19.54	5.0	20.5	
3		3	19.94	19.77	19.55	5.0	20.5	
6	0	19.93	19.98	19.51	5.0	20.5		

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 MHz	707.5 MHz	711 MHz		
10 MHz	QPSK	1	0	24.10	23.77	24.25	0.0	25.0
		1	25	24.21	23.81	24.30	0.0	25.0
		1	49	24.17	23.81	24.33	0.0	25.0
		25	0	23.16	22.73	23.23	1.0	24.0
		25	12	23.25	22.76	23.27	1.0	24.0
		25	25	23.19	22.80	23.32	1.0	24.0
		50	0	23.22	22.75	23.26	1.0	24.0
	16QAM	1	0	23.48	23.05	23.65	1.0	24.0
		1	25	23.53	23.08	23.66	1.0	24.0
		1	49	23.55	23.11	23.74	1.0	24.0
		25	0	22.17	21.73	22.29	2.0	23.0
		25	12	22.26	21.74	22.31	2.0	23.0
		25	25	22.22	21.81	22.42	2.0	23.0
		50	0	22.22	21.73	22.25	2.0	23.0
	64QAM	1	0	22.38	21.94	22.35	2.0	23.0
		1	25	22.45	21.98	22.44	2.0	23.0
		1	49	22.46	21.95	22.47	2.0	23.0
		25	0	21.13	20.78	21.27	3.0	22.0
		25	12	21.24	20.78	21.27	3.0	22.0
		25	25	21.22	20.80	21.36	3.0	22.0
		50	0	21.20	20.74	21.28	3.0	22.0
	256QAM	1	0	19.16	18.89	19.30	5.0	20.0
		1	25	19.35	19.01	19.38	5.0	20.0
		1	49	19.32	18.99	19.45	5.0	20.0
		25	0	19.11	18.81	19.26	5.0	20.0
		25	12	19.24	18.81	19.29	5.0	20.0
		25	25	19.23	18.86	19.33	5.0	20.0
		50	0	19.20	18.76	19.24	5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23035	23095	23155		
				701.5 MHz	707.5 MHz	713.5 MHz		
				5 MHz	QPSK	1	0	23.80
1	12	23.90	23.93			24.08	0.0	25.0
1	24	23.81	23.89			23.97	0.0	25.0
12	0	22.81	22.88			22.95	1.0	24.0
12	7	22.91	22.91			22.98	1.0	24.0
12	13	22.87	22.97			23.02	1.0	24.0
25	0	22.87	22.94			22.98	1.0	24.0
16QAM	1	0	23.17		23.24	23.38	1.0	24.0
	1	12	23.30		23.32	23.46	1.0	24.0
	1	24	23.17		23.27	23.36	1.0	24.0
	12	0	21.87		21.86	22.07	2.0	23.0
	12	7	21.97		21.89	22.09	2.0	23.0
	12	13	21.95		21.94	22.14	2.0	23.0
	25	0	21.93		21.95	21.97	2.0	23.0
64QAM	1	0	21.97		22.07	22.16	2.0	23.0
	1	12	22.06		22.15	22.24	2.0	23.0
	1	24	21.94		22.06	22.17	2.0	23.0
	12	0	20.82		20.89	20.96	3.0	22.0
	12	7	20.91		20.91	21.03	3.0	22.0
	12	13	20.89		20.96	21.08	3.0	22.0
	25	0	20.91		20.92	20.98	3.0	22.0
256QAM	1	0	18.86		18.93	19.10	5.0	20.0
	1	12	18.99		19.05	19.25	5.0	20.0
	1	24	18.91		18.95	19.14	5.0	20.0
	12	0	18.82		18.87	18.95	5.0	20.0
	12	7	18.91		18.90	18.99	5.0	20.0
	12	13	18.88		18.94	19.05	5.0	20.0
	25	0	18.85		18.90	18.96	5.0	20.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23025	23095	23165		
				700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	23.78	23.87	23.98	0.0	25.0
		1	8	23.88	24.00	24.10	0.0	25.0
		1	14	23.78	23.88	23.99	0.0	25.0
		8	0	22.82	22.87	22.98	1.0	24.0
		8	4	22.91	22.89	23.01	1.0	24.0
		8	7	22.93	22.97	23.09	1.0	24.0
		15	0	22.91	22.95	23.00	1.0	24.0
	16QAM	1	0	23.21	23.13	23.33	1.0	24.0
		1	8	23.30	23.24	23.39	1.0	24.0
		1	14	23.22	23.15	23.29	1.0	24.0
		8	0	21.91	21.94	21.99	2.0	23.0
		8	4	22.02	21.96	22.04	2.0	23.0
		8	7	21.99	22.04	22.09	2.0	23.0
		15	0	21.91	21.95	22.01	2.0	23.0
	64QAM	1	0	21.98	22.00	22.26	2.0	23.0
		1	8	22.06	22.09	22.37	2.0	23.0
		1	14	21.98	22.00	22.28	2.0	23.0
		8	0	20.88	20.88	21.01	3.0	22.0
		8	4	21.00	20.90	21.04	3.0	22.0
		8	7	20.97	20.97	21.10	3.0	22.0
		15	0	20.91	20.95	20.99	3.0	22.0
	256QAM	1	0	18.87	18.94	19.01	5.0	20.0
		1	8	19.05	19.08	19.17	5.0	20.0
		1	14	18.94	19.00	19.08	5.0	20.0
		8	0	18.82	18.85	18.96	5.0	20.0
		8	4	18.95	18.87	19.01	5.0	20.0
		8	7	18.93	18.95	19.08	5.0	20.0
		15	0	18.90	18.93	18.97	5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23017	23095	23173		
				699.7 MHz	707.5 MHz	715.3 MHz		
1.4 MHz	QPSK	1	0	23.78	23.87	24.03	0.0	25.0
		1	3	23.82	23.95	24.10	0.0	25.0
		1	5	23.79	23.92	24.02	0.0	25.0
		3	0	23.88	23.86	24.01	0.0	25.0
		3	1	23.85	23.89	24.04	0.0	25.0
		3	3	23.84	23.93	24.03	0.0	25.0
		6	0	22.85	22.91	22.96	1.0	24.0
	16QAM	1	0	22.95	23.17	23.39	1.0	24.0
		1	3	23.01	23.25	23.38	1.0	24.0
		1	5	22.98	23.17	23.38	1.0	24.0
		3	0	23.03	23.04	23.17	1.0	24.0
		3	1	23.00	23.04	23.26	1.0	24.0
		3	3	23.01	23.08	23.20	1.0	24.0
		6	0	21.89	21.95	22.08	2.0	23.0
	64QAM	1	0	21.97	22.06	22.22	2.0	23.0
		1	3	21.99	22.10	22.30	2.0	23.0
		1	5	21.98	22.09	22.26	2.0	23.0
		3	0	21.92	21.87	22.10	2.0	23.0
		3	1	21.93	21.89	22.14	2.0	23.0
		3	3	21.92	21.90	22.12	2.0	23.0
		6	0	20.85	20.87	21.05	3.0	22.0
	256QAM	1	0	19.01	18.89	19.05	5.0	20.0
		1	3	19.04	19.03	19.16	5.0	20.0
		1	5	18.99	18.95	19.09	5.0	20.0
		3	0	18.95	18.86	18.96	5.0	20.0
		3	1	18.94	18.88	19.03	5.0	20.0
		3	3	18.96	18.94	19.03	5.0	20.0
		6	0	18.93	18.85	18.91	5.0	20.0

LTE Band 13

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)					
				Measured Pwr (dBm)			MPR	Tune-up Limit	
				23230	782 MHz	23255			
10 MHz	QPSK	1	0		23.43		0.0	25.0	
		1	25		23.55		0.0	25.0	
		1	49		23.57		0.0	25.0	
		25	0		22.47		1.0	24.0	
		25	12		22.44		1.0	24.0	
		25	25		22.54		1.0	24.0	
	16QAM	1	0		22.76		1.0	24.0	
		1	25		22.82		1.0	24.0	
		1	49		22.89		1.0	24.0	
		25	0		21.47		2.0	23.0	
		25	12		21.54		2.0	23.0	
		25	25		21.59		2.0	23.0	
	64QAM	50	0		21.45		2.0	23.0	
		1	0		21.69		2.0	23.0	
		1	25		21.83		2.0	23.0	
		1	49		21.80		2.0	23.0	
		25	0		20.58		3.0	22.0	
		25	12		20.58		3.0	22.0	
	256QAM	25	25		20.63		3.0	22.0	
		50	0		20.55		3.0	22.0	
		1	0		18.59		5.0	20.0	
		1	25		18.80		5.0	20.0	
		1	49		18.79		5.0	20.0	
		25	0		18.57		5.0	20.0	
5 MHz	QPSK	25	12		18.60		5.0	20.0	
		25	25		18.65		5.0	20.0	
		50	0		18.56		5.0	20.0	
		1	0		23.72	23.39	23.78	0.0	25.0
		1	12		23.83	23.45	23.84	0.0	25.0
		1	24		23.77	23.39	23.83	0.0	25.0
	16QAM	12	0		23.77	22.35	23.75	1.0	24.0
		12	7		23.81	22.48	23.78	1.0	24.0
		12	13		23.80	22.44	23.76	1.0	24.0
		25	0		22.72	22.41	22.71	1.0	24.0
		1	0		23.21	22.75	23.24	1.0	24.0
		1	12		23.28	22.80	23.26	1.0	24.0
	64QAM	1	24		23.22	22.76	23.18	1.0	24.0
		12	0		22.91	21.32	22.84	2.0	23.0
		12	7		22.95	21.42	22.85	2.0	23.0
		12	13		22.96	21.39	22.87	2.0	23.0
		25	0		21.76	21.48	21.73	2.0	23.0
		1	0		21.97	21.55	21.92	2.0	23.0
	256QAM	1	12		22.03	21.58	22.01	2.0	23.0
		1	24		21.99	21.57	21.98	2.0	23.0
		12	0		21.76	20.38	21.80	3.0	22.0
		12	7		21.80	20.48	21.84	3.0	22.0
		12	13		21.83	20.49	21.84	3.0	22.0
		25	0		20.73	20.44	20.73	3.0	22.0
256QAM	1	0		18.87	18.62	18.81	5.0	20.0	
	1	12		18.92	18.75	18.85	5.0	20.0	
	1	24		18.98	18.65	18.90	5.0	20.0	
	12	0		18.71	18.39	18.71	5.0	20.0	
	12	7		18.74	18.51	18.73	5.0	20.0	
	12	13		18.76	18.47	18.76	5.0	20.0	
25	0		18.72	18.46	18.72	5.0	20.0		

LTE Band 17

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				23755	23790	23825		
				706.5 MHz	710 MHz	713.5 MHz		
10 MHz	QPSK	1	0		23.84		0.0	25.0
		1	25		23.91		0.0	25.0
		1	49		23.90		0.0	25.0
		25	0		22.79		1.0	24.0
		25	12		22.83		1.0	24.0
		25	25		22.88		1.0	24.0
	16QAM	50	0		22.89		1.0	24.0
		1	0		23.22		1.0	24.0
		1	25		23.26		1.0	24.0
		1	49		23.31		1.0	24.0
		25	0		21.84		2.0	23.0
		25	12		21.84		2.0	23.0
	64QAM	25	25		21.88		2.0	23.0
		50	0		21.91		2.0	23.0
		1	0		21.94		2.0	23.0
		1	25		22.05		2.0	23.0
		1	49		22.05		2.0	23.0
		25	0		20.85		3.0	22.0
	256QAM	25	12		20.85		3.0	22.0
		25	25		20.89		3.0	22.0
		50	0		20.92		3.0	22.0
		1	0		18.92		5.0	20.0
		1	25		19.07		5.0	20.0
		1	49		19.05		5.0	20.0
5 MHz	QPSK	25	0		18.83		5.0	20.0
		25	25		18.89		5.0	20.0
		50	0		18.91		5.0	20.0
		1	0		23.82		0.0	25.0
		1	12		23.90		0.0	25.0
		1	24		23.80		0.0	25.0
	16QAM	12	0		22.79		1.0	24.0
		12	7		22.83		1.0	24.0
		12	13		22.87		1.0	24.0
		25	0		22.89		1.0	24.0
		1	0		23.18		1.0	24.0
		1	12		23.25		1.0	24.0
	64QAM	1	24		23.17		1.0	24.0
		12	0		21.86		2.0	23.0
		12	7		21.90		2.0	23.0
		12	13		21.95		2.0	23.0
		25	0		21.90		2.0	23.0
		1	0		21.89		2.0	23.0
	256QAM	1	12		22.03		2.0	23.0
		1	24		21.92		2.0	23.0
		12	0		20.82		3.0	22.0
		12	7		20.86		3.0	22.0
		12	13		20.89		3.0	22.0
		25	0		20.89		3.0	22.0
QPSK	1	0		18.95		5.0	20.0	
	1	12		19.11		5.0	20.0	
	1	24		19.02		5.0	20.0	
	12	0		18.80		5.0	20.0	
	12	7		18.85		5.0	20.0	
	12	13		18.88		5.0	20.0	
256QAM	25	0		18.93		5.0	20.0	

LTE Band 25

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)					
				Measured Pwr (dBm)			MPR	Tune-up Limit	
				26140	26365	26590			
				1860 MHz	1882.5 MHz	1905 MHz			
20 MHz	QPSK	1	0	22.80	22.63	22.61	0.0	24.0	
		1	49	22.72	22.54	22.66	0.0	24.0	
		1	99	22.62	22.60	22.72	0.0	24.0	
		50	0	21.85	21.64	21.65	1.0	23.0	
		50	24	21.75	21.66	21.73	1.0	23.0	
		50	50	21.72	21.62	21.74	1.0	23.0	
	16QAM	100	0	21.75	21.66	21.75	1.0	23.0	
		1	0	22.09	22.08	21.91	1.0	23.0	
		1	49	22.01	22.05	22.03	1.0	23.0	
		1	99	21.97	22.01	22.00	1.0	23.0	
		50	0	20.85	20.66	20.65	2.0	22.0	
		50	24	20.75	20.67	20.75	2.0	22.0	
	64QAM	50	50	20.70	20.65	20.74	2.0	22.0	
		100	0	20.74	20.68	20.75	2.0	22.0	
		1	0	21.52	21.30	21.42	2.0	22.0	
		1	49	21.51	21.23	21.51	2.0	22.0	
		1	99	21.33	21.37	21.64	2.0	22.0	
		50	0	20.37	20.17	20.33	3.0	21.0	
	256QAM	50	24	20.37	20.17	20.44	3.0	21.0	
		50	50	20.22	20.16	20.44	3.0	21.0	
		100	0	20.35	20.17	20.45	3.0	21.0	
		1	0	18.48	18.24	18.40	5.0	19.0	
		1	49	18.45	18.15	18.56	5.0	19.0	
		1	99	18.49	18.35	18.73	5.0	19.0	
	15 MHz	QPSK	50	0	18.36	18.16	18.32	5.0	19.0
			50	24	18.35	18.18	18.43	5.0	19.0
			50	50	18.26	18.18	18.45	5.0	19.0
			100	0	18.35	18.19	18.45	5.0	19.0
1			0	22.92	22.65	22.67	0.0	24.0	
1			37	22.83	22.61	22.69	0.0	24.0	
16QAM		1	74	22.84	22.57	22.68	0.0	24.0	
		36	0	21.92	21.69	21.67	1.0	23.0	
		36	20	21.92	21.66	21.68	1.0	23.0	
		36	39	21.79	21.65	21.75	1.0	23.0	
		75	0	21.91	21.64	21.69	1.0	23.0	
		1	0	22.08	21.84	21.80	1.0	23.0	
64QAM	1	37	21.99	21.74	21.83	1.0	23.0		
	1	74	21.97	21.73	21.81	1.0	23.0		
	36	0	20.94	20.65	20.68	2.0	22.0		
	36	20	20.91	20.65	20.67	2.0	22.0		
	36	39	20.80	20.64	20.76	2.0	22.0		
	75	0	20.92	20.67	20.69	2.0	22.0		
256QAM	1	0	21.12	20.80	20.84	2.0	22.0		
	1	37	21.10	20.77	20.90	2.0	22.0		
	1	74	21.07	20.73	20.87	2.0	22.0		
	36	0	19.96	19.72	19.73	3.0	21.0		
	36	20	19.95	19.72	19.74	3.0	21.0		
	36	39	19.83	19.73	19.81	3.0	21.0		
QPSK	75	0	19.95	19.70	19.75	3.0	21.0		
	1	0	18.07	17.86	17.71	5.0	19.0		
	1	37	18.02	17.79	17.78	5.0	19.0		
	1	74	17.91	17.85	17.80	5.0	19.0		
	36	0	17.91	17.70	17.72	5.0	19.0		
	36	20	17.88	17.69	17.74	5.0	19.0		
16QAM	36	39	17.80	17.70	17.78	5.0	19.0		
	36	0	17.88	17.69	17.72	5.0	19.0		
	75	0	17.88	17.69	17.72	5.0	19.0		
	75	0	17.88	17.69	17.72	5.0	19.0		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26090	26365	26640		
				1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	23.02	22.78	22.89	0.0	24.0
		1	25	23.06	22.79	22.92	0.0	24.0
		1	49	22.96	22.77	22.87	0.0	24.0
		25	0	22.07	21.79	21.85	1.0	23.0
		25	12	22.08	21.84	21.94	1.0	23.0
		25	25	22.04	21.81	21.92	1.0	23.0
	50	0	22.05	21.81	21.94	1.0	23.0	
	16QAM	1	0	22.24	21.94	22.02	1.0	23.0
		1	25	22.23	21.96	22.06	1.0	23.0
		1	49	22.09	21.97	22.04	1.0	23.0
		25	0	21.08	20.86	20.85	2.0	22.0
		25	12	21.08	20.85	20.94	2.0	22.0
		25	25	21.07	20.83	20.93	2.0	22.0
	50	0	21.07	20.86	20.95	2.0	22.0	
	64QAM	1	0	21.25	20.99	21.06	2.0	22.0
		1	25	21.28	21.02	21.11	2.0	22.0
		1	49	21.24	20.96	21.08	2.0	22.0
		25	0	20.12	19.82	19.87	3.0	21.0
		25	12	20.11	19.86	19.97	3.0	21.0
		25	25	20.07	19.82	19.96	3.0	21.0
	50	0	20.11	19.83	19.93	3.0	21.0	
256QAM	1	0	18.13	17.93	17.95	5.0	19.0	
	1	25	18.19	17.97	18.03	5.0	19.0	
	1	49	18.08	17.92	17.99	5.0	19.0	
	25	0	18.13	17.86	17.85	5.0	19.0	
	25	12	18.14	17.85	17.96	5.0	19.0	
	25	25	18.10	17.83	17.92	5.0	19.0	
50	0	18.08	17.80	17.93	5.0	19.0		
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26065	26365	26665		
				1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	23.00	22.76	22.87	0.0	24.0
		1	12	23.10	22.83	22.95	0.0	24.0
		1	24	23.00	22.78	22.86	0.0	24.0
		12	0	22.06	21.77	21.83	1.0	23.0
		12	7	22.11	21.81	21.84	1.0	23.0
		12	13	22.06	21.80	21.91	1.0	23.0
	25	0	22.07	21.78	21.83	1.0	23.0	
	16QAM	1	0	22.21	21.88	22.01	1.0	23.0
		1	12	22.34	21.94	22.11	1.0	23.0
		1	24	22.23	21.86	21.98	1.0	23.0
		12	0	21.09	20.77	20.91	2.0	22.0
		12	7	21.13	20.79	20.93	2.0	22.0
		12	13	21.12	20.75	20.97	2.0	22.0
	25	0	21.06	20.81	20.84	2.0	22.0	
	64QAM	1	0	21.29	20.95	20.98	2.0	22.0
		1	12	21.34	21.04	21.06	2.0	22.0
		1	24	21.27	20.94	21.00	2.0	22.0
		12	0	20.13	19.83	19.90	3.0	21.0
		12	7	20.16	19.86	19.92	3.0	21.0
		12	13	20.13	19.82	19.97	3.0	21.0
	25	0	20.11	19.82	19.88	3.0	21.0	
256QAM	1	0	18.30	17.91	17.92	5.0	19.0	
	1	12	18.35	17.98	18.11	5.0	19.0	
	1	24	18.29	17.88	18.00	5.0	19.0	
	12	0	18.13	17.80	17.87	5.0	19.0	
	12	7	18.16	17.87	17.92	5.0	19.0	
	12	13	18.15	17.81	17.94	5.0	19.0	
25	0	18.10	17.82	17.86	5.0	19.0		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26055	26365	26675		
				1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	23.03	22.70	22.88	0.0	24.0
		1	8	23.09	22.77	22.88	0.0	24.0
		1	14	22.99	22.66	22.79	0.0	24.0
		8	0	22.07	21.72	21.77	1.0	23.0
		8	4	22.12	21.80	21.92	1.0	23.0
		8	7	22.05	21.79	21.92	1.0	23.0
	15	0	22.05	21.71	21.89	1.0	23.0	
	16QAM	1	0	22.18	21.79	22.02	1.0	23.0
		1	8	22.22	21.91	22.15	1.0	23.0
		1	14	22.10	21.82	22.00	1.0	23.0
		8	0	21.11	20.86	20.81	2.0	22.0
		8	4	21.13	20.89	20.93	2.0	22.0
		8	7	21.12	20.88	20.92	2.0	22.0
	15	0	21.09	20.76	20.91	2.0	22.0	
	64QAM	1	0	21.22	20.84	21.10	2.0	22.0
		1	8	21.31	20.94	21.22	2.0	22.0
		1	14	21.20	20.83	21.08	2.0	22.0
		8	0	20.13	19.79	19.87	3.0	21.0
		8	4	20.17	19.86	19.99	3.0	21.0
		8	7	20.14	19.83	20.00	3.0	21.0
	15	0	20.10	19.78	19.93	3.0	21.0	
	256QAM	1	0	18.17	17.90	17.93	5.0	19.0
		1	8	18.23	17.98	18.12	5.0	19.0
		1	14	18.20	17.89	18.01	5.0	19.0
8		0	18.09	17.81	17.88	5.0	19.0	
8		4	18.14	17.85	17.91	5.0	19.0	
8		7	18.15	17.81	17.94	5.0	19.0	
15	0	18.08	17.76	17.93	5.0	19.0		
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26047	26365	26683		
				1850.7 MHz	1882.5 MHz	1914.3 MHz		
1.4 MHz	QPSK	1	0	23.12	22.75	22.86	0.0	24.0
		1	3	23.14	22.76	22.88	0.0	24.0
		1	5	23.09	22.78	22.90	0.0	24.0
		3	0	23.07	22.76	22.84	0.0	24.0
		3	1	23.08	22.74	22.83	0.0	24.0
		3	3	23.06	22.79	22.85	0.0	24.0
	6	0	22.03	21.73	21.87	1.0	23.0	
	16QAM	1	0	22.13	21.89	22.00	1.0	23.0
		1	3	22.17	21.92	22.04	1.0	23.0
		1	5	22.16	21.91	22.04	1.0	23.0
		3	0	22.12	21.75	21.94	1.0	23.0
		3	1	22.17	21.79	21.96	1.0	23.0
		3	3	22.14	21.79	22.00	1.0	23.0
	6	0	21.04	20.72	20.90	2.0	22.0	
	64QAM	1	0	21.21	20.92	20.87	2.0	22.0
		1	3	21.24	20.99	20.95	2.0	22.0
		1	5	21.23	20.91	20.86	2.0	22.0
		3	0	21.12	20.78	20.97	2.0	22.0
		3	1	21.14	20.82	20.98	2.0	22.0
		3	3	21.13	20.81	20.96	2.0	22.0
	6	0	20.09	19.79	19.94	3.0	21.0	
	256QAM	1	0	18.18	17.87	17.98	5.0	19.0
		1	3	18.18	17.96	18.00	5.0	19.0
		1	5	18.18	17.87	17.92	5.0	19.0
3		0	18.11	17.78	17.95	5.0	19.0	
3		1	18.12	17.79	17.97	5.0	19.0	
3		3	18.10	17.80	17.98	5.0	19.0	
6	0	18.10	17.74	17.90	5.0	19.0		

LTE Band 26

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)						
				Measured Pwr (dBm)				MPR	Tune-up Limit	
				26765	26790	26865	26965			
				821.5 MHz	824 MHz	831.5 MHz	841.5 MHz			
15 MHz	QPSK	1	0	24.13	24.29	24.07	24.04	0.0	25.0	
		1	37	24.11	24.28	24.06	23.96	0.0	25.0	
		1	74	23.96	24.20	23.87	23.81	0.0	25.0	
		36	0	23.21	23.30	23.06	23.14	1.0	24.0	
		36	20	23.16	23.35	23.01	23.08	1.0	24.0	
		36	39	23.21	23.32	23.09	23.04	1.0	24.0	
	16QAM	75	0	23.16	23.35	23.10	23.12	1.0	24.0	
		1	0	23.29	23.59	23.37	23.24	1.0	24.0	
		1	37	23.25	23.54	23.32	23.14	1.0	24.0	
		1	74	23.09	23.45	23.18	22.99	1.0	24.0	
		36	0	22.20	22.30	22.09	22.16	2.0	23.0	
		36	20	22.17	22.35	22.05	22.09	2.0	23.0	
	64QAM	36	39	22.21	22.34	22.10	22.04	2.0	23.0	
		75	0	22.16	22.35	22.11	22.11	2.0	23.0	
		1	0	22.30	22.49	22.15	22.24	2.0	23.0	
		1	37	22.32	22.45	22.12	22.12	2.0	23.0	
		1	74	22.15	22.33	22.03	22.00	2.0	23.0	
		36	0	21.19	21.30	21.10	21.15	3.0	22.0	
	256QAM	36	20	21.17	21.36	21.04	21.05	3.0	22.0	
		36	39	21.22	21.34	21.13	21.06	3.0	22.0	
		75	0	21.17	21.36	21.13	21.12	3.0	22.0	
		1	0	19.31	19.42	19.10	19.30	5.0	20.0	
		1	37	19.31	19.42	19.06	19.21	5.0	20.0	
		1	74	19.30	19.46	19.13	19.12	5.0	20.0	
	10 MHz	QPSK	36	0	19.20	19.28	19.09	19.10	5.0	20.0
			36	20	19.15	19.31	19.03	19.09	5.0	20.0
			36	39	19.15	19.30	19.09	19.03	5.0	20.0
			75	0	19.15	19.32	19.11	19.10	5.0	20.0
1			0	24.28	24.43	24.14	24.00	0.0	25.0	
1			25	24.25	24.43	24.14	23.95	0.0	25.0	
16QAM		1	49	24.15	24.33	24.06	23.86	0.0	25.0	
		25	0	23.18	23.38	23.08	22.97	1.0	24.0	
		25	12	23.29	23.46	23.10	22.94	1.0	24.0	
		25	25	23.22	23.43	23.11	22.92	1.0	24.0	
	50	0	23.26	23.45	23.09	22.95	1.0	24.0		
	1	0	23.58	23.86	23.56	23.35	1.0	24.0		
	1	25	23.54	23.82	23.53	23.24	1.0	24.0		
	1	49	23.47	23.78	23.49	23.22	1.0	24.0		
	25	0	22.21	22.39	22.13	22.00	2.0	23.0		
	25	12	22.28	22.50	22.12	21.99	2.0	23.0		
64QAM	25	25	22.25	22.46	22.18	21.95	2.0	23.0		
	50	0	22.26	22.44	22.05	21.95	2.0	23.0		
	1	0	22.37	22.63	22.29	22.11	2.0	23.0		
	1	25	22.41	22.66	22.34	22.10	2.0	23.0		
	1	49	22.30	22.61	22.30	22.00	2.0	23.0		
	25	0	21.21	21.40	21.11	20.98	3.0	22.0		
	25	12	21.25	21.48	21.11	20.97	3.0	22.0		
	25	25	21.22	21.44	21.14	20.95	3.0	22.0		
	50	0	21.24	21.46	21.09	20.98	3.0	22.0		
	1	0	19.30	19.44	19.16	19.07	5.0	20.0		
256QAM	1	25	19.38	19.52	19.25	19.08	5.0	20.0		
	1	49	19.28	19.47	19.14	19.01	5.0	20.0		
	25	0	19.16	19.39	19.07	18.99	5.0	20.0		
	25	12	19.28	19.48	19.08	19.01	5.0	20.0		
	25	25	19.21	19.45	19.13	18.95	5.0	20.0		
	50	0	19.23	19.43	19.08	18.98	5.0	20.0		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
				26715	26790	26865	27015		
				816.5 MHz	824 MHz	831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	24.22	24.40	24.11	23.89	0.0	25.0
		1	12	24.28	24.44	24.18	23.90	0.0	25.0
		1	24	24.18	24.39	24.07	23.83	0.0	25.0
		12	0	23.16	23.37	23.07	22.92	1.0	24.0
		12	7	23.27	23.48	23.08	22.95	1.0	24.0
		12	13	23.25	23.44	23.13	22.91	1.0	24.0
	16QAM	25	0	23.25	23.43	23.04	22.91	1.0	24.0
		1	0	23.59	23.85	23.46	23.38	1.0	24.0
		1	12	23.66	23.89	23.56	23.37	1.0	24.0
		1	24	23.52	23.85	23.47	23.36	1.0	24.0
		12	0	22.12	22.42	22.22	21.96	2.0	23.0
		12	7	22.24	22.52	22.27	21.99	2.0	23.0
	64QAM	12	13	22.19	22.48	22.30	21.97	2.0	23.0
		25	0	22.27	22.47	22.08	21.94	2.0	23.0
		1	0	22.40	22.61	22.28	22.08	2.0	23.0
		1	12	22.49	22.66	22.33	22.05	2.0	23.0
		1	24	22.40	22.61	22.21	22.01	2.0	23.0
		12	0	21.18	21.37	21.07	20.95	3.0	22.0
	256QAM	12	7	21.30	21.49	21.12	20.94	3.0	22.0
		12	13	21.23	21.47	21.14	20.95	3.0	22.0
		25	0	21.26	21.45	21.07	20.93	3.0	22.0
		1	0	19.30	19.52	19.12	19.00	5.0	20.0
		1	12	19.44	19.61	19.24	19.01	5.0	20.0
		1	24	19.40	19.55	19.13	18.98	5.0	20.0
	3 MHz	QPSK	12	0	19.19	19.38	19.07	18.92	5.0
12			7	19.27	19.47	19.10	18.97	5.0	20.0
12			13	19.24	19.47	19.14	18.90	5.0	20.0
25			0	19.24	19.45	19.05	18.90	5.0	20.0
1			0	24.20	24.38	24.07	23.86	0.0	25.0
1			8	24.28	24.45	24.20	23.93	0.0	25.0
16QAM		1	14	24.15	24.35	24.04	23.79	0.0	25.0
		8	0	23.22	23.43	23.08	22.87	1.0	24.0
		8	4	23.26	23.48	23.10	22.91	1.0	24.0
		8	7	23.28	23.47	23.17	22.91	1.0	24.0
	15	0	23.25	23.41	23.08	22.86	1.0	24.0	
	1	0	23.52	23.76	23.51	23.20	1.0	24.0	
	1	8	23.61	23.75	23.62	23.25	1.0	24.0	
	1	14	23.45	23.68	23.50	23.15	1.0	24.0	
	8	0	22.29	22.51	22.14	21.91	2.0	23.0	
	8	4	22.36	22.56	22.15	21.96	2.0	23.0	
64QAM	8	7	22.33	22.57	22.23	21.96	2.0	23.0	
	15	0	22.23	22.50	22.10	21.92	2.0	23.0	
	1	0	22.26	22.52	22.31	22.05	2.0	23.0	
	1	8	22.40	22.65	22.43	22.12	2.0	23.0	
	1	14	22.24	22.55	22.34	22.00	2.0	23.0	
	8	0	21.24	21.47	21.10	20.96	3.0	22.0	
256QAM	8	4	21.29	21.48	21.12	20.95	3.0	22.0	
	8	7	21.31	21.46	21.20	20.95	3.0	22.0	
	15	0	21.26	21.42	21.09	20.92	3.0	22.0	
	1	0	19.21	19.39	19.13	18.94	5.0	20.0	
	1	8	19.39	19.54	19.25	19.01	5.0	20.0	
	1	14	19.28	19.41	19.14	18.99	5.0	20.0	
	8	0	19.24	19.45	19.06	18.89	5.0	20.0	
	8	4	19.25	19.49	19.09	18.92	5.0	20.0	
8	7	19.23	19.48	19.19	18.95	5.0	20.0		
15	0	19.21	19.45	19.06	18.91	5.0	20.0		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	
				26697	26790	26865	27033			
				814.7 MHz	824 MHz	831.5 MHz	848.3 MHz			
1.4 MHz	QPSK	1	0	22.98	24.40	23.94	23.98	0.0	25.0	
		1	3	24.01	24.39	24.02	23.99	0.0	25.0	
		1	5	24.00	24.42	23.98	24.02	0.0	25.0	
		3	0	23.99	24.39	23.99	24.00	0.0	25.0	
		3	1	24.01	24.41	24.01	24.00	0.0	25.0	
		3	3	24.01	24.38	24.02	24.01	0.0	25.0	
	16QAM	6	0	22.83	22.90	22.66	22.47	1.0	24.0	
		1	0	23.38	23.69	23.24	23.32	1.0	24.0	
		1	3	23.40	23.70	23.36	23.40	1.0	24.0	
		1	5	23.39	23.72	23.30	23.42	1.0	24.0	
		3	0	23.13	23.49	23.12	23.14	1.0	24.0	
		3	1	23.15	23.54	23.16	23.16	1.0	24.0	
	64QAM	3	3	23.14	23.57	23.13	23.15	1.0	24.0	
		6	0	22.40	22.43	22.29	22.03	2.0	23.0	
		1	0	22.39	22.47	22.15	22.12	2.0	23.0	
		1	3	22.42	22.53	22.24	22.31	2.0	23.0	
		1	5	22.33	22.53	22.26	22.23	2.0	23.0	
		3	0	22.16	22.51	22.11	22.13	2.0	23.0	
	256QAM	3	1	22.16	22.46	22.17	22.19	2.0	23.0	
		3	3	22.19	22.53	22.15	22.21	2.0	23.0	
		6	0	21.28	21.41	21.06	21.04	3.0	22.0	
		1	0	19.32	19.51	19.06	19.07	5.0	20.0	
		1	3	19.34	19.50	19.15	19.21	5.0	20.0	
		1	5	19.33	19.50	19.14	19.17	5.0	20.0	
		256QAM	3	0	19.24	19.43	19.05	19.06	5.0	20.0
			3	1	19.27	19.46	19.13	19.15	5.0	20.0
			3	3	19.26	19.45	19.12	19.14	5.0	20.0
			6	0	19.13	19.40	19.13	18.87	5.0	20.0

LTE Band 41(PC3)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)					MPR	Tune-up Limit
				Measured Pwr (dBm)						
				39750 2506 MHz	40185 2549.5 MHz	40620 2593 MHz	41055 2636.5 MHz	41490 2680 MHz		
20 MHz	QPSK	1	0	24.16	24.22	24.41	24.68	24.56	0.0	25.0
		1	49	24.21	24.23	24.52	24.67	24.46	0.0	25.0
		1	99	24.28	24.14	24.61	24.68	24.47	0.0	25.0
		50	0	23.20	23.32	23.46	23.76	23.50	1.0	24.0
		50	24	23.29	23.28	23.57	23.77	23.54	1.0	24.0
		50	50	23.31	23.19	23.57	23.67	23.46	1.0	24.0
	16QAM	100	0	23.29	23.28	23.54	23.73	23.50	1.0	24.0
		1	0	23.28	23.34	23.40	23.76	23.70	1.0	24.0
		1	49	23.42	23.54	23.46	23.82	23.54	1.0	24.0
		1	99	23.29	23.26	23.77	23.81	23.63	1.0	24.0
		50	0	22.20	22.29	22.39	22.74	22.46	2.0	23.0
		50	24	22.28	22.32	22.50	22.72	22.50	2.0	23.0
	64QAM	50	50	22.26	22.16	22.52	22.69	22.41	2.0	23.0
		100	0	22.28	22.30	22.53	22.74	22.47	2.0	23.0
		1	0	22.26	22.63	22.51	22.65	22.53	2.0	23.0
		1	49	22.33	22.75	22.50	22.70	22.63	2.0	23.0
		1	99	22.42	22.64	22.62	22.69	22.75	2.0	23.0
		50	0	21.19	21.55	21.59	21.74	21.64	3.0	22.0
	256QAM	50	24	21.32	21.67	21.67	21.77	21.62	3.0	22.0
		50	50	21.29	21.65	21.76	21.68	21.70	3.0	22.0
		100	0	21.30	21.65	21.74	21.76	21.70	3.0	22.0
		1	0	18.93	19.27	19.28	19.76	19.41	5.0	20.0
		1	49	18.99	19.04	19.50	19.66	19.26	5.0	20.0
		1	99	19.31	19.28	19.62	19.77	19.40	5.0	20.0
15 MHz	QPSK	50	0	19.11	19.25	19.35	19.71	19.45	5.0	20.0
		50	24	19.27	19.20	19.53	19.76	19.49	5.0	20.0
		50	50	19.24	19.17	19.49	19.64	19.36	5.0	20.0
		100	0	19.24	19.24	19.52	19.71	19.46	5.0	20.0
		1	0	24.12	24.23	24.53	24.72	24.42	0.0	25.0
		1	37	24.24	24.21	24.49	24.75	24.46	0.0	25.0
16QAM	QPSK	1	74	24.28	24.27	24.65	24.71	24.51	0.0	25.0
		36	0	23.19	23.27	23.46	23.75	23.51	1.0	24.0
		36	20	23.28	23.28	23.53	23.76	23.49	1.0	24.0
		36	39	23.27	23.16	23.55	23.73	23.50	1.0	24.0
		75	0	23.27	23.25	23.53	23.74	23.48	1.0	24.0
		1	0	23.20	23.21	23.46	23.76	23.37	1.0	24.0
	16QAM	1	37	23.28	23.06	23.43	23.71	23.44	1.0	24.0
		1	74	23.16	23.20	23.50	23.83	23.56	1.0	24.0
		36	0	22.18	22.30	22.42	22.73	22.47	2.0	23.0
		36	20	22.27	22.22	22.52	22.72	22.48	2.0	23.0
		36	39	22.26	22.14	22.54	22.72	22.48	2.0	23.0
		75	0	22.28	22.25	22.52	22.75	22.47	2.0	23.0
64QAM	1	0	22.14	22.65	22.76	22.82	22.68	2.0	23.0	
	1	37	22.15	22.59	22.62	22.90	22.62	2.0	23.0	
	1	74	22.25	22.64	22.87	22.75	22.61	2.0	23.0	
	36	0	21.19	21.59	21.67	21.84	21.72	3.0	22.0	
	36	20	21.31	21.62	21.77	21.85	21.71	3.0	22.0	
	36	39	21.27	21.70	21.76	21.85	21.70	3.0	22.0	
256QAM	75	0	21.32	21.69	21.73	21.80	21.71	3.0	22.0	
	1	0	19.04	19.16	19.12	19.81	19.27	5.0	20.0	
	1	37	19.13	19.11	19.24	19.59	19.32	5.0	20.0	
	1	74	19.18	19.12	19.40	19.57	19.38	5.0	20.0	
	36	0	19.06	19.24	19.43	19.71	19.42	5.0	20.0	
	36	20	19.17	19.25	19.51	19.69	19.41	5.0	20.0	
256QAM	36	39	19.21	19.19	19.49	19.76	19.41	5.0	20.0	
	75	0	19.25	19.26	19.46	19.76	19.43	5.0	20.0	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	
				39750	40185	40620	41055	41490			
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			
10 MHz	QPSK	1	0	24.57	24.36	24.59	24.85	24.60	0.0	25.0	
		1	25	24.58	24.40	24.69	24.91	24.65	0.0	25.0	
		1	49	24.54	24.30	24.63	24.81	24.55	0.0	25.0	
		25	0	23.56	23.38	23.58	23.91	23.60	1.0	24.0	
		25	12	23.60	23.38	23.68	23.95	23.66	1.0	24.0	
		25	25	23.59	23.29	23.69	23.93	23.60	1.0	24.0	
	16QAM	50	0	23.58	23.40	23.64	23.90	23.58	1.0	24.0	
		1	0	23.65	23.41	23.63	23.77	23.61	1.0	24.0	
		1	25	23.77	23.39	23.82	23.75	23.54	1.0	24.0	
		1	49	23.63	23.36	23.76	23.66	23.51	1.0	24.0	
		25	0	22.56	22.37	22.57	22.89	22.55	2.0	23.0	
		25	12	22.59	22.36	22.71	22.93	22.58	2.0	23.0	
	64QAM	25	25	22.58	22.26	22.70	22.92	22.56	2.0	23.0	
		50	0	22.55	22.35	22.64	22.93	22.61	2.0	23.0	
		1	0	22.18	22.55	22.91	22.89	22.67	2.0	23.0	
		1	25	22.24	22.68	22.87	22.95	22.79	2.0	23.0	
		1	49	22.37	22.74	22.88	22.85	22.72	2.0	23.0	
		25	0	21.29	21.65	21.91	21.94	21.79	3.0	22.0	
	256QAM	25	12	21.45	21.76	21.95	22.02	21.87	3.0	22.0	
		25	25	21.44	21.80	21.87	21.92	21.84	3.0	22.0	
		50	0	21.44	21.80	21.88	21.94	21.82	3.0	22.0	
		1	0	19.13	19.31	19.29	19.84	19.44	5.0	20.0	
		1	25	19.26	19.37	19.38	19.70	19.46	5.0	20.0	
		1	49	19.18	19.21	19.52	19.57	19.44	5.0	20.0	
	5 MHz	QPSK	25	0	19.22	19.36	19.55	19.85	19.53	5.0	20.0
			25	12	19.35	19.43	19.70	19.87	19.58	5.0	20.0
			25	25	19.36	19.31	19.64	19.86	19.60	5.0	20.0
			50	0	19.32	19.40	19.64	19.82	19.56	5.0	20.0
1			0	23.31	24.35	24.55	24.75	24.57	0.0	25.0	
1			12	24.40	24.45	24.69	24.88	24.58	0.0	25.0	
16QAM		1	24	24.33	24.34	24.69	24.77	24.54	0.0	25.0	
		12	0	23.36	23.41	23.56	23.89	23.56	1.0	24.0	
		12	7	23.43	23.45	23.69	23.94	23.60	1.0	24.0	
		12	13	23.41	23.40	23.67	23.89	23.59	1.0	24.0	
		25	0	23.37	23.38	23.64	23.92	23.58	1.0	24.0	
		1	0	23.26	23.58	23.63	23.73	23.65	1.0	24.0	
64QAM		1	12	23.46	23.48	23.63	23.89	23.77	1.0	24.0	
		1	24	23.47	23.44	23.72	23.82	23.63	1.0	24.0	
		12	0	22.42	22.43	22.52	22.86	22.56	2.0	23.0	
		12	7	22.45	22.45	22.64	22.87	22.59	2.0	23.0	
		12	13	22.42	22.45	22.59	22.88	22.58	2.0	23.0	
		25	0	22.36	22.34	22.63	22.85	22.55	2.0	23.0	
256QAM		1	0	22.38	22.61	22.65	22.96	22.71	2.0	23.0	
		1	12	22.34	22.72	22.93	23.01	22.72	2.0	23.0	
		1	24	22.31	22.81	22.88	22.97	22.67	2.0	23.0	
		12	0	21.25	21.66	21.92	21.95	21.82	3.0	22.0	
		12	7	21.35	21.84	21.92	22.02	21.85	3.0	22.0	
		12	13	21.33	21.77	21.90	21.93	21.84	3.0	22.0	
256QAM		25	0	21.35	21.81	21.96	21.94	21.78	3.0	22.0	
		1	0	19.29	19.24	19.43	19.82	19.53	5.0	20.0	
		1	12	19.34	19.43	19.71	19.96	19.65	5.0	20.0	
		1	24	19.23	19.30	19.62	19.80	19.43	5.0	20.0	
	12	0	19.23	19.36	19.54	19.81	19.56	5.0	20.0		
	12	7	19.28	19.41	19.67	19.81	19.56	5.0	20.0		
256QAM	12	13	19.24	19.37	19.60	19.82	19.53	5.0	20.0		
	25	0	19.27	19.34	19.62	19.81	19.52	5.0	20.0		

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BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				39750	40620	41490		
				2506 MHz	2593 MHz	2680 MHz		
20 MHz	QPSK	1	0	25.23	25.51	25.64	0.0	26.5
		1	49	25.32	25.56	25.44	0.0	26.5
		1	99	25.37	25.74	25.36	0.0	26.5
		50	0	24.27	24.58	24.69	1.0	25.5
		50	24	24.41	24.69	24.65	1.0	25.5
		50	50	24.39	24.73	24.57	1.0	25.5
		100	0	24.42	24.72	24.69	1.0	25.5
	16QAM	1	0	24.71	24.81	25.08	1.0	25.5
		1	49	24.88	25.16	24.84	1.0	25.5
		1	99	24.76	25.12	24.82	1.0	25.5
		50	0	23.26	23.58	23.67	2.0	24.5
		50	24	23.41	23.69	23.71	2.0	24.5
		50	50	23.39	23.72	23.66	2.0	24.5
		100	0	23.38	23.66	23.67	2.0	24.5
	64QAM	1	0	23.51	23.65	23.85	2.0	24.5
		1	49	23.55	23.72	23.81	2.0	24.5
		1	99	23.51	23.86	23.97	2.0	24.5
		50	0	22.27	22.54	22.61	3.0	23.5
		50	24	22.34	22.71	22.63	3.0	23.5
		50	50	22.38	22.71	22.57	3.0	23.5
		100	0	22.36	22.64	22.64	3.0	23.5
	256QAM	1	0	20.45	20.65	20.74	5.0	21.5
		1	49	20.47	20.69	20.65	5.0	21.5
		1	99	20.67	20.94	20.67	5.0	21.5
50		0	20.22	20.52	20.59	5.0	21.5	
50		24	20.36	20.65	20.59	5.0	21.5	
50		50	20.40	20.63	20.55	5.0	21.5	
100		0	20.34	20.62	20.59	5.0	21.5	
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				39725	40620	41515		
				2503.5 MHz	2593 MHz	2682.5 MHz		
				15 MHz	QPSK	1	0	25.28
1	37	25.29	25.72			25.36	0.0	26.5
1	74	25.31	25.77			25.42	0.0	26.5
36	0	24.22	24.58			24.64	1.0	25.5
36	20	24.34	24.69			24.60	1.0	25.5
36	39	24.35	24.71			24.54	1.0	25.5
75	0	24.34	24.69			24.63	1.0	25.5
16QAM	1	0	24.60		24.99	25.02	1.0	25.5
	1	37	24.59		25.05	24.73	1.0	25.5
	1	74	24.72		25.05	24.74	1.0	25.5
	36	0	23.22		23.60	23.64	2.0	24.5
	36	20	23.37		23.68	23.62	2.0	24.5
	36	39	23.32		23.72	23.64	2.0	24.5
	75	0	23.35		23.66	23.65	2.0	24.5
64QAM	1	0	23.28		23.85	23.69	2.0	24.5
	1	37	23.55		23.85	23.72	2.0	24.5
	1	74	23.60		23.96	23.74	2.0	24.5
	36	0	22.20		22.56	22.62	3.0	23.5
	36	20	22.36		22.69	22.60	3.0	23.5
	36	39	22.34		22.68	22.64	3.0	23.5
	75	0	22.35		22.66	22.62	3.0	23.5
256QAM	1	0	20.28		20.62	20.78	5.0	21.5
	1	37	20.31		20.74	20.76	5.0	21.5
	1	74	20.47		20.85	20.60	5.0	21.5
	36	0	20.26	20.56	20.60	5.0	21.5	
	36	20	20.32	20.67	20.60	5.0	21.5	
	36	39	20.34	20.66	20.59	5.0	21.5	
	75	0	20.33	20.66	20.58	5.0	21.5	

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				39700	40620	41540		
				2501 MHz	2593 MHz	2685 MHz		
10 MHz	QPSK	1	0	25.37	25.76	25.65	0.0	26.5
		1	25	25.46	25.80	25.35	0.0	26.5
		1	49	25.40	25.75	25.52	0.0	26.5
		25	0	24.41	24.73	24.69	1.0	25.5
		25	12	24.47	24.86	24.60	1.0	25.5
		25	25	24.44	24.85	24.59	1.0	25.5
	50	0	24.47	24.85	24.67	1.0	25.5	
	16QAM	1	0	24.67	25.00	24.85	1.0	25.5
		1	25	24.76	25.15	24.75	1.0	25.5
		1	49	24.74	25.18	24.84	1.0	25.5
		25	0	23.44	23.75	23.78	2.0	24.5
		25	12	23.46	23.92	23.76	2.0	24.5
		25	25	23.41	23.89	23.77	2.0	24.5
	50	0	23.46	23.82	23.72	2.0	24.5	
	64QAM	1	0	23.70	23.96	23.75	2.0	24.5
		1	25	23.69	24.04	23.83	2.0	24.5
		1	49	23.71	24.05	23.84	2.0	24.5
		25	0	22.42	22.69	22.71	3.0	23.5
		25	12	22.44	22.83	22.75	3.0	23.5
		25	25	22.42	22.78	22.69	3.0	23.5
	50	0	22.40	22.82	22.64	3.0	23.5	
	256QAM	1	0	20.46	20.73	20.80	5.0	21.5
		1	25	20.53	20.84	20.89	5.0	21.5
		1	49	20.64	20.86	20.88	5.0	21.5
25		0	20.38	20.74	20.69	5.0	21.5	
25		12	20.39	20.80	20.73	5.0	21.5	
25		25	20.41	20.81	20.66	5.0	21.5	
50	0	20.44	20.80	20.68	5.0	21.5		
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				39675	40620	41565		
				2498.5 MHz	2593 MHz	2687.5 MHz		
5 MHz	QPSK	1	0	25.36	25.67	25.59	0.0	26.5
		1	12	25.43	25.78	25.33	0.0	26.5
		1	24	25.42	25.77	25.41	0.0	26.5
		12	0	24.42	24.69	24.58	1.0	25.5
		12	7	24.45	24.82	24.51	1.0	25.5
		12	13	24.43	24.78	24.49	1.0	25.5
	25	0	24.43	24.78	24.55	1.0	25.5	
	16QAM	1	0	24.82	25.16	25.01	1.0	25.5
		1	12	24.74	25.06	24.82	1.0	25.5
		1	24	24.71	25.03	24.93	1.0	25.5
		12	0	23.56	23.80	23.73	2.0	24.5
		12	7	23.57	23.89	23.69	2.0	24.5
		12	13	23.54	23.86	23.68	2.0	24.5
	25	0	23.41	23.80	23.65	2.0	24.5	
	64QAM	1	0	23.67	23.87	23.70	2.0	24.5
		1	12	23.66	23.96	23.85	2.0	24.5
		1	24	23.59	23.94	23.82	2.0	24.5
		12	0	22.42	22.71	22.72	3.0	23.5
		12	7	22.45	22.78	22.75	3.0	23.5
		12	13	22.39	22.85	22.67	3.0	23.5
	25	0	22.44	22.80	22.70	3.0	23.5	
	256QAM	1	0	20.47	20.70	20.92	5.0	21.5
		1	12	20.59	20.90	21.01	5.0	21.5
		1	24	20.47	20.85	20.84	5.0	21.5
12		0	20.40	20.73	20.70	5.0	21.5	
12		7	20.44	20.81	20.73	5.0	21.5	
12		13	20.39	20.83	20.64	5.0	21.5	
25	0	20.32	20.82	20.64	5.0	21.5		

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BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)					
				Measured Pwr (dBm)			MPR	Tune-up Limit	
				132072	132322	132572			
				1720 MHz	1745 MHz	1770 MHz			
20 MHz	QPSK	1	0	22.52	22.94	22.83	0.0	24.0	
		1	49	22.69	23.08	22.81	0.0	24.0	
		1	99	22.90	23.07	22.73	0.0	24.0	
		50	0	21.61	22.00	21.82	1.0	23.0	
		50	24	21.77	22.10	21.85	1.0	23.0	
		50	50	21.85	22.15	21.87	1.0	23.0	
	16QAM	100	0	21.78	22.07	21.83	1.0	23.0	
		1	0	21.80	22.39	22.19	1.0	23.0	
		1	49	22.00	22.53	22.33	1.0	23.0	
		1	99	22.16	22.51	22.10	1.0	23.0	
		50	0	20.59	21.03	20.82	2.0	22.0	
		50	24	20.79	21.12	20.88	2.0	22.0	
	64QAM	50	50	20.87	21.15	20.86	2.0	22.0	
		100	0	20.76	21.06	20.80	2.0	22.0	
		1	0	21.09	21.67	21.47	2.0	22.0	
		1	49	21.18	21.83	21.40	2.0	22.0	
		1	99	21.39	21.71	21.26	2.0	22.0	
		50	0	19.93	20.46	20.35	3.0	21.0	
	256QAM	50	24	20.08	20.53	20.33	3.0	21.0	
		50	50	20.17	20.51	20.28	3.0	21.0	
		100	0	20.06	20.52	20.32	3.0	21.0	
		1	0	17.94	18.54	18.52	5.0	19.0	
		1	49	18.08	18.72	18.33	5.0	19.0	
		1	99	18.39	18.63	18.22	5.0	19.0	
	15 MHz	QPSK	50	0	17.92	18.50	18.38	5.0	19.0
			50	24	18.07	18.57	18.36	5.0	19.0
			50	50	18.15	18.54	18.33	5.0	19.0
			100	0	18.07	18.54	18.37	5.0	19.0
1			0	22.51	22.80	22.97	0.0	24.0	
1			37	22.59	23.23	23.18	0.0	24.0	
16QAM		1	74	22.75	23.21	23.16	0.0	24.0	
		36	0	21.62	22.05	22.03	1.0	23.0	
		36	20	21.72	22.12	22.07	1.0	23.0	
		36	39	21.73	22.09	22.07	1.0	23.0	
		75	0	21.69	22.07	22.06	1.0	23.0	
		1	0	21.74	22.42	22.39	1.0	23.0	
64QAM		1	37	21.84	22.63	22.67	1.0	23.0	
		1	74	22.02	22.61	22.63	1.0	23.0	
		36	0	20.61	21.03	21.02	2.0	22.0	
		36	20	20.69	21.10	21.07	2.0	22.0	
		36	39	20.73	21.06	21.09	2.0	22.0	
		75	0	20.70	21.08	21.08	2.0	22.0	
256QAM		1	0	20.65	21.16	21.13	2.0	22.0	
		1	37	20.72	21.39	21.31	2.0	22.0	
		1	74	20.88	21.39	21.29	2.0	22.0	
		36	0	19.61	20.03	20.02	3.0	21.0	
		36	20	19.73	20.09	20.12	3.0	21.0	
		36	39	19.71	20.08	20.07	3.0	21.0	
QPSK		75	0	19.73	20.07	20.06	3.0	21.0	
		1	0	17.48	18.14	18.15	5.0	19.0	
		1	37	17.66	18.34	18.32	5.0	19.0	
		1	74	17.80	18.39	18.41	5.0	19.0	
	36	0	17.59	18.03	18.03	5.0	19.0		
	36	20	17.68	18.12	18.10	5.0	19.0		
16QAM	36	39	17.71	18.07	18.06	5.0	19.0		
	75	0	17.70	18.08	18.07	5.0	19.0		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	
				132022	132322	132622			
				1715 MHz	1745 MHz	1775 MHz			
10 MHz	QPSK	1	0	22.64	23.25	22.10	0.0	24.0	
		1	25	22.77	23.35	23.17	0.0	24.0	
		1	49	22.81	23.25	23.12	0.0	24.0	
		25	0	21.71	22.25	22.00	1.0	23.0	
		25	12	21.80	22.26	22.05	1.0	23.0	
		25	25	21.78	22.32	22.14	1.0	23.0	
	16QAM	50	0	21.81	22.23	22.05	1.0	23.0	
		1	0	22.02	22.49	22.34	1.0	23.0	
		1	25	22.16	22.67	22.44	1.0	23.0	
		1	49	22.18	22.57	22.50	1.0	23.0	
		25	0	20.75	21.25	21.02	2.0	22.0	
		25	12	20.85	21.26	21.09	2.0	22.0	
	64QAM	25	25	20.87	21.29	21.15	2.0	22.0	
		50	0	20.82	21.24	21.04	2.0	22.0	
		1	0	20.80	21.33	21.13	2.0	22.0	
		1	25	20.91	21.50	21.23	2.0	22.0	
		1	49	20.96	21.40	21.21	2.0	22.0	
		25	0	19.71	20.23	20.00	3.0	21.0	
	256QAM	25	12	19.82	20.26	20.05	3.0	21.0	
		25	25	19.80	20.30	20.13	3.0	21.0	
		50	0	19.79	20.22	20.04	3.0	21.0	
		1	0	17.70	18.25	18.09	5.0	19.0	
		1	25	17.83	18.46	18.28	5.0	19.0	
		1	49	17.91	18.38	18.29	5.0	19.0	
	5 MHz	QPSK	25	0	17.70	18.27	18.01	5.0	19.0
			25	12	17.82	18.29	18.06	5.0	19.0
			25	25	17.78	18.31	18.12	5.0	19.0
			50	0	17.80	18.24	18.03	5.0	19.0
1			0	22.64	23.21	23.05	0.0	24.0	
1			12	22.71	23.35	23.13	0.0	24.0	
16QAM		1	24	22.66	23.26	23.01	0.0	24.0	
		12	0	21.62	22.21	22.06	1.0	23.0	
		12	7	21.76	22.25	22.08	1.0	23.0	
		12	13	21.73	22.30	22.04	1.0	23.0	
		25	0	21.75	22.22	22.04	1.0	23.0	
		1	0	22.02	22.54	22.38	1.0	23.0	
64QAM		1	12	22.08	22.64	22.43	1.0	23.0	
		1	24	22.05	22.53	22.31	1.0	23.0	
		12	0	20.68	21.24	21.03	2.0	22.0	
		12	7	20.79	21.29	21.04	2.0	22.0	
		12	13	20.76	21.34	21.02	2.0	22.0	
		25	0	20.73	21.22	21.05	2.0	22.0	
256QAM		1	0	20.72	21.51	21.14	2.0	22.0	
		1	12	20.91	21.58	21.18	2.0	22.0	
		1	24	20.83	21.48	21.06	2.0	22.0	
		12	0	19.64	20.30	20.06	3.0	21.0	
		12	7	19.77	20.33	20.08	3.0	21.0	
		12	13	19.77	20.37	20.02	3.0	21.0	
QPSK		25	0	19.73	20.29	20.04	3.0	21.0	
		1	0	17.71	18.33	18.09	5.0	19.0	
		1	12	17.89	18.54	18.16	5.0	19.0	
		1	24	17.83	18.42	18.05	5.0	19.0	
	12	0	17.64	18.28	18.04	5.0	19.0		
	12	7	17.76	18.32	18.07	5.0	19.0		
16QAM	12	13	17.75	18.35	18.04	5.0	19.0		
	25	0	17.75	18.32	18.04	5.0	19.0		

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	22.55	23.17	22.92	0.0	24.0
		1	8	22.66	23.29	23.06	0.0	24.0
		1	14	22.59	23.18	22.89	0.0	24.0
		8	0	21.67	22.19	21.98	1.0	23.0
		8	4	21.73	22.22	22.03	1.0	23.0
		8	7	21.73	22.20	22.00	1.0	23.0
	16QAM	15	0	21.65	22.18	21.99	1.0	23.0
		1	0	21.96	22.54	22.32	1.0	23.0
		1	8	22.08	22.67	22.45	1.0	23.0
		1	14	21.96	22.57	22.31	1.0	23.0
		8	0	20.72	21.27	21.04	2.0	22.0
		8	4	20.81	21.29	21.06	2.0	22.0
	64QAM	8	7	20.79	21.29	21.05	2.0	22.0
		15	0	20.72	21.20	20.98	2.0	22.0
		1	0	20.72	21.40	21.12	2.0	22.0
		1	8	20.87	21.48	21.19	2.0	22.0
		1	14	20.79	21.37	21.09	2.0	22.0
		8	0	19.72	20.24	20.01	3.0	21.0
	256QAM	8	4	19.75	20.27	20.03	3.0	21.0
		8	7	19.77	20.27	20.03	3.0	21.0
		15	0	19.67	20.18	19.96	3.0	21.0
		1	0	17.60	18.25	18.09	5.0	19.0
		1	8	17.82	18.41	18.27	5.0	19.0
		1	14	17.73	18.27	18.12	5.0	19.0
1.4 MHz	QPSK	8	0	17.70	18.24	18.03	5.0	19.0
		8	4	17.74	18.28	18.05	5.0	19.0
		8	7	17.72	18.25	18.03	5.0	19.0
		15	0	17.67	18.21	17.98	5.0	19.0
		1	0	22.66	22.11	23.00	0.0	24.0
		1	3	22.73	23.04	23.00	0.0	24.0
	16QAM	1	5	22.69	23.02	23.01	0.0	24.0
		3	0	22.69	22.99	23.00	0.0	24.0
		3	1	22.67	23.02	23.00	0.0	24.0
		3	3	22.67	23.00	23.01	0.0	24.0
		6	0	21.69	22.80	23.00	1.0	23.0
		1	0	21.81	22.40	22.34	1.0	23.0
	64QAM	1	3	21.83	22.38	22.43	1.0	23.0
		1	5	21.81	22.45	22.41	1.0	23.0
		3	0	21.81	22.11	22.11	1.0	23.0
		3	1	21.79	22.14	22.11	1.0	23.0
		3	3	21.81	22.12	22.10	1.0	23.0
		6	0	20.73	21.99	21.88	2.0	22.0
	256QAM	1	0	20.84	21.17	21.16	2.0	22.0
		1	3	20.87	21.16	21.21	2.0	22.0
		1	5	20.83	21.18	21.19	2.0	22.0
		3	0	20.78	21.06	21.10	2.0	22.0
		3	1	20.81	21.07	21.09	2.0	22.0
		3	3	20.79	21.06	21.07	2.0	22.0
QPSK	6	0	19.83	20.98	20.90	3.0	21.0	
	1	0	17.88	18.10	18.07	5.0	19.0	
	1	3	17.93	18.16	18.15	5.0	19.0	
	1	5	17.87	18.15	18.19	5.0	19.0	
	3	0	17.75	17.95	17.99	5.0	19.0	
	3	1	17.77	17.99	18.01	5.0	19.0	
16QAM	3	3	17.77	17.99	18.00	5.0	19.0	
	6	0	17.65	17.92	18.00	5.0	19.0	

NR Band n2

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					388000	392000	396000		
					1860 MHz	1880 MHz	1900 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1		22.61		0.0	24.0
			1	53		22.60		0.0	24.0
			1	104		22.45		0.0	24.0
			50	0		21.71		0.5	23.5
			50	28		22.63		0.0	24.0
			50	56		21.64		0.5	23.5
			100	0		21.69		0.5	23.5
		QPSK	1	1		22.75		0.0	24.0
			1	53		22.59		0.0	24.0
			1	104		22.55		0.0	24.0
			50	0		21.74		1.0	23.0
			50	28		22.68		0.0	24.0
			50	56		21.60		1.0	23.0
			100	0		21.69		1.0	23.0
		16QAM	1	1		21.75		1.0	23.0
1	53			21.38		1.0	23.0		
1	104			21.58		1.0	23.0		
64QAM	1	1		20.38		2.5	21.5		
256QAM	1	1		17.67		4.5	19.5		
CP-OFDM	QPSK	1	1		21.20		1.5	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					387500	392000	396500		
					1857.5 MHz	1880 MHz	1902.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		22.55		0.0	24.0
			1	40		22.53		0.0	24.0
			1	77		22.57		0.0	24.0
			36	0		21.60		0.5	23.5
			36	22		22.55		0.0	24.0
			36	43		21.52		0.5	23.5
			75	0		21.55		0.5	23.5
		QPSK	1	1		22.69		0.0	24.0
			1	40		22.66		0.0	24.0
			1	77		22.66		0.0	24.0
			36	0		21.60		1.0	23.0
			36	22		22.58		0.0	24.0
			36	43		22.58		1.0	23.0
			75	0		22.57		1.0	23.0
		16QAM	1	1		21.62		1.0	23.0
		64QAM	1	1		20.28		2.5	21.5
		256QAM	1	1		17.56		4.5	19.5
		CP-OFDM	QPSK	1	1		21.10		1.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					387000	392000	397000		
					1855 MHz	1880 MHz	1905 MHz		
10 MHz	DFT-s-OFDM	QPSK	1	1		22.34		0.0	24.0
			1	26		22.45		0.0	24.0
			1	50		22.44		0.0	24.0
			25	0		21.77		0.5	23.5
			25	14		22.50		0.0	24.0
			25	27		21.44		0.5	23.5
			50	0		21.48		0.5	23.5
		16QAM	1	1		22.48		0.0	24.0
			1	26		22.47		0.0	24.0
			1	50		22.52		0.0	24.0
			25	0		22.50		1.0	23.0
			25	14		22.62		0.0	24.0
			25	27		21.48		1.0	23.0
	64QAM	50	0		21.43		1.0	23.0	
1		1		21.62		1.0	23.0		
1		1		20.65		2.5	21.5		
	CP-OFDM		1	1		18.22		4.5	19.5
			1	1		21.59		1.5	22.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					386500	392000	397500		
					1852.5 MHz	1880 MHz	1907.5 MHz		
5 MHz	DFT-s-OFDM	QPSK	1	1		22.52		0.0	24.0
			1	13		22.50		0.0	24.0
			1	23		22.49		0.0	24.0
			12	0		21.55		0.5	23.5
			12	7		22.50		0.0	24.0
			12	13		21.40		0.5	23.5
			25	0		21.46		0.5	23.5
		16QAM	1	1		22.49		0.0	24.0
			1	13		22.49		0.0	24.0
			1	23		22.44		0.0	24.0
			12	0		22.43		1.0	23.0
			12	7		22.52		0.0	24.0
			12	13		22.51		1.0	23.0
	64QAM	25	0		22.52		1.0	23.0	
1		1		21.55		1.0	23.0		
1		1		20.15		2.5	21.5		
	CP-OFDM		1	1		18.16		4.5	19.5
			1	1		20.98		1.5	22.5

NR Band n5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					166800	167300	167800		
					834 MHz	836.5 MHz	839 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.72	24.70	24.71	0.0	25.0
			1	53	24.59	24.52	24.58	0.0	25.0
			1	104	24.46	24.43	24.46	0.0	25.0
			50	0	23.77	23.76	23.81	0.5	24.5
			50	28	24.71	24.70	24.69	0.0	25.0
			50	56	23.60	23.59	23.65	0.5	24.5
			100	0	23.71	23.68	23.78	0.5	24.5
		QPSK	1	1	24.88	24.84	24.86	0.0	25.0
			1	53	24.77	24.73	24.75	0.0	25.0
			1	104	24.58	24.60	24.59	0.0	25.0
			50	0	23.75	23.76	23.75	1.0	24.0
			50	28	24.72	24.69	24.72	0.0	25.0
			50	56	23.62	23.60	23.61	1.0	24.0
		16QAM	100	0	23.76	23.72	23.76	1.0	24.0
			1	1	23.77	23.79	23.76	1.0	24.0
			1	53	23.60	23.56	23.65	1.0	24.0
		64QAM	1	104	23.48	23.45	23.47	1.0	24.0
1	1		22.45	22.49	22.43	2.5	22.5		
256QAM	1	1	19.87	19.76	19.87	4.5	20.5		
CP-OFDM	QPSK	1	1	23.37	23.31	23.36	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					166300	167300	168300		
					831.5 MHz	836.5 MHz	841.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.78	24.60	24.60	0.0	25.0
			1	40	24.65	24.50	24.53	0.0	25.0
			1	77	24.54	24.41	24.39	0.0	25.0
			36	0	23.86	23.64	23.72	0.5	24.5
			36	22	24.80	24.58	24.65	0.0	25.0
			36	43	23.75	23.54	23.61	0.5	24.5
			75	0	23.82	23.57	23.68	0.5	24.5
		QPSK	1	1	24.92	24.75	24.79	0.0	25.0
			1	40	24.81	24.61	24.67	0.0	25.0
			1	77	24.69	24.57	24.61	0.0	25.0
			36	0	23.86	23.68	23.69	1.0	24.0
			36	22	24.78	24.59	24.63	0.0	25.0
			36	43	23.76	23.53	23.60	1.0	24.0
		16QAM	75	0	23.81	23.64	23.68	1.0	24.0
			1	1	23.84	23.59	23.65	1.0	24.0
			1	1	22.29	22.36	22.17	2.5	22.5
		256QAM	1	1	19.94	19.65	19.77	4.5	20.5
CP-OFDM	QPSK	1	1	23.42	23.14	23.28	1.5	23.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					165800	167300	168800		
					829 MHz	836.5 MHz	844 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.33	24.41	24.17	0.0	25.0
			1	26	24.28	24.36	24.11	0.0	25.0
			1	50	24.27	24.29	24.05	0.0	25.0
			25	0	23.47	23.49	23.31	0.5	24.5
			25	14	24.37	24.51	24.24	0.0	25.0
			25	27	23.49	23.44	23.25	0.5	24.5
			50	0	23.39	23.45	23.27	0.5	24.5
		QPSK	1	1	24.43	24.54	24.27	0.0	25.0
			1	26	24.36	24.43	24.25	0.0	25.0
			1	50	24.42	24.37	24.18	0.0	25.0
			25	0	23.45	23.48	23.30	1.0	24.0
			25	14	24.39	24.42	24.22	0.0	25.0
			25	27	23.48	23.45	23.25	1.0	24.0
		50	0	23.38	23.48	23.24	1.0	24.0	
16QAM	1	1	23.35	23.44	23.21	1.0	24.0		
64QAM	1	1	22.23	22.16	22.15	2.5	22.5		
256QAM	1	1	19.46	19.45	19.28	4.5	20.5		
CP-OFDM	QPSK	1	1	22.86	22.89	22.75	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					165300	167300	169300		
					826.5 MHz	836.5 MHz	846.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.63	24.43	24.27	0.0	25.0
			1	13	24.56	24.34	24.17	0.0	25.0
			1	23	24.54	24.41	24.19	0.0	25.0
			12	0	23.63	23.46	23.31	0.5	24.5
			12	7	24.62	24.41	24.26	0.0	25.0
			12	13	23.58	23.41	23.30	0.5	24.5
			25	0	23.65	23.48	23.33	0.5	24.5
		QPSK	1	1	24.75	24.58	24.42	0.0	25.0
			1	13	24.64	24.45	24.31	0.0	25.0
			1	23	24.66	24.51	24.32	0.0	25.0
			12	0	23.61	23.43	23.29	1.0	24.0
			12	7	24.59	24.42	24.23	0.0	25.0
			12	13	23.60	23.40	23.28	1.0	24.0
			25	0	23.64	23.48	23.32	1.0	24.0
		16QAM	1	1	23.57	23.44	23.34	1.0	24.0
		64QAM	1	1	22.34	22.23	22.08	2.5	22.5
		256QAM	1	1	19.63	19.50	19.35	4.5	20.5
		CP-OFDM	QPSK	1	1	23.10	22.92	22.76	1.5

NR Band n25

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					372000	376500	381000		
					1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.61	22.61	22.36	0.0	24.0
			1	53	22.57	22.60	22.32	0.0	24.0
			1	104	22.63	22.63	22.24	0.0	24.0
			50	0	21.66	21.63	21.42	0.5	23.5
			50	28	22.75	22.72	22.40	0.0	24.0
			50	56	21.68	21.70	21.45	0.5	23.5
		QPSK	100	0	21.72	21.76	21.41	0.5	23.5
			1	1	22.71	22.70	22.42	0.0	24.0
			1	53	22.66	22.69	22.42	0.0	24.0
			1	104	22.72	22.73	22.33	0.0	24.0
			50	0	21.71	21.72	21.40	1.0	23.0
			50	28	22.75	22.76	22.40	0.0	24.0
		16QAM	50	56	21.67	21.65	21.41	1.0	23.0
			100	0	21.71	21.77	21.41	1.0	23.0
			1	1	21.66	21.68	21.46	1.0	23.0
		64QAM	1	53	21.56	21.51	21.37	1.0	23.0
			1	104	21.36	21.39	21.28	1.0	23.0
		256QAM	1	1	20.35	20.36	20.12	2.5	21.5
1	1	17.64	17.68	17.40	4.5	19.5			
CP-OFDM	QPSK	1	1	21.11	21.15	20.92	1.5	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					371500	376500	381500		
					1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.63	22.58	22.27	0.0	24.0
			1	40	22.59	22.43	22.26	0.0	24.0
			1	77	22.55	22.42	22.27	0.0	24.0
			36	0	21.61	21.62	21.40	0.5	23.5
			36	22	22.70	22.57	22.46	0.0	24.0
			36	43	21.71	21.56	21.43	0.5	23.5
		QPSK	75	0	21.76	21.58	21.47	0.5	23.5
			1	1	22.69	22.66	21.60	0.0	24.0
			1	40	22.70	22.52	22.39	0.0	24.0
			1	77	22.66	22.47	22.36	0.0	24.0
			36	0	21.66	21.61	21.37	1.0	23.0
			36	22	22.70	22.56	22.42	0.0	24.0
		16QAM	36	43	21.68	21.57	21.41	1.0	23.0
			75	0	21.73	21.62	21.44	1.0	23.0
			1	1	21.68	21.67	21.37	1.0	23.0
		64QAM	1	1	20.36	20.35	20.05	2.5	21.5
		256QAM	1	1	17.61	17.56	17.27	4.5	19.5
		CP-OFDM	QPSK	1	1	21.13	21.09	20.81	1.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					371000	376500	382000		
					1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.39	22.33	22.25	0.0	24.0
			1	26	22.42	22.40	22.22	0.0	24.0
			1	50	22.42	22.29	22.14	0.0	24.0
			25	0	21.57	21.47	21.33	0.5	23.5
			25	14	22.51	22.44	22.27	0.0	24.0
			25	27	21.55	21.46	21.25	0.5	23.5
		50	0	21.50	21.44	21.31	0.5	23.5	
		QPSK	1	1	22.45	22.35	22.29	0.0	24.0
			1	26	22.51	22.42	22.29	0.0	24.0
			1	50	22.47	22.35	22.22	0.0	24.0
			25	0	21.54	21.46	21.28	1.0	23.0
			25	14	22.52	22.44	22.31	0.0	24.0
			25	27	21.54	21.46	21.26	1.0	23.0
		50	0	21.55	21.45	21.23	1.0	23.0	
16QAM	1	1	21.45	21.38	21.34	1.0	23.0		
64QAM	1	1	20.12	20.03	19.94	2.5	21.5		
256QAM	1	1	17.33	17.26	17.21	4.5	19.5		
CP-OFDM	QPSK	1	1	20.82	20.78	20.71	1.5	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					370500	376500	382500		
					1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.45	22.43	22.21	0.0	24.0
			1	13	22.34	22.39	22.15	0.0	24.0
			1	23	22.47	22.45	22.13	0.0	24.0
			12	0	21.45	21.45	21.26	0.5	23.5
			12	7	22.40	22.47	22.25	0.0	24.0
			12	13	21.50	21.42	21.25	0.5	23.5
		25	0	21.52	21.46	21.27	0.5	23.5	
		QPSK	1	1	22.51	22.49	22.27	0.0	24.0
			1	13	22.41	22.45	22.22	0.0	24.0
			1	23	22.52	22.45	22.22	0.0	24.0
			12	0	21.50	21.45	21.28	1.0	23.0
			12	7	22.46	22.46	22.22	0.0	24.0
			12	13	21.57	21.49	21.25	1.0	23.0
		25	0	21.51	21.47	21.21	1.0	23.0	
16QAM	1	1	21.52	21.51	21.26	1.0	23.0		
64QAM	1	1	20.18	20.16	19.92	2.5	21.5		
256QAM	1	1	17.37	17.38	17.21	4.5	19.5		
CP-OFDM	QPSK	1	1	20.89	20.90	20.61	1.5	22.5	

NR Band n41

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 MHz		
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.51	23.37	23.38	0.0	25.0
			1	137	23.33	23.44	23.33	0.0	25.0
			1	271	23.50	23.46	23.38	0.0	25.0
			135	0	22.99	22.87	22.99	0.5	24.5
			135	69	23.44	23.40	23.41	0.0	25.0
			135	138	22.92	23.02	22.92	0.5	24.5
			270	0	23.02	23.01	22.95	0.5	24.5
		QPSK	1	1	23.55	23.35	23.40	0.0	25.0
			1	137	23.40	23.36	23.43	0.0	25.0
			1	271	23.54	23.44	23.48	0.0	25.0
			135	0	22.48	22.51	22.61	1.0	24.0
			135	69	23.47	23.43	23.45	0.0	25.0
			135	138	22.52	22.48	22.47	1.0	24.0
			270	0	22.59	22.49	22.47	1.0	24.0
		16QAM	1	1	22.76	22.63	22.72	1.0	24.0
	1		137	22.61	22.54	22.68	1.0	24.0	
1	271		22.94	22.61	22.75	1.0	24.0		
64QAM	1	1	21.26	21.03	21.02	2.5	22.5		
256QAM	1	1	19.10	19.00	18.98	4.5	20.5		
CP-OFDM	QPSK	1	1	22.03	21.95	21.99	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					508200	518598	528996		
					2541 MHz	2592.99 MHz	2644.98 MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.61	23.34	23.45	0.0	25.0
			1	123	23.42	23.44	23.25	0.0	25.0
			1	243	23.50	23.52	23.47	0.0	25.0
			120	0	22.96	23.03	22.94	0.5	24.5
			120	63	23.50	23.40	23.32	0.0	25.0
			120	125	23.03	23.03	22.90	0.5	24.5
			243	0	22.94	22.89	22.94	0.5	24.5
		QPSK	1	1	23.62	23.40	23.49	0.0	25.0
			1	123	23.44	23.42	23.31	0.0	25.0
			1	243	23.51	23.55	23.52	0.0	25.0
			120	0	22.44	22.44	22.53	1.0	24.0
			120	63	23.49	23.43	23.37	0.0	25.0
			120	125	22.52	22.55	22.35	1.0	24.0
			243	0	22.42	22.33	22.39	1.0	24.0
		16QAM	1	1	22.82	22.55	22.94	1.0	24.0
	64QAM	1	1	21.38	21.33	21.51	2.5	22.5	
256QAM	1	1	19.28	19.04	19.11	4.5	20.5		
CP-OFDM	QPSK	1	1	22.15	21.94	22.01	1.5	23.5	

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	1	23.49	23.31	23.45	0.0	25.0
			1	109	23.33	23.41	23.36	0.0	25.0
			1	215	23.41	23.52	23.44	0.0	25.0
			108	0	22.97	22.95	23.09	0.5	24.5
			108	55	23.36	23.40	23.45	0.0	25.0
			108	109	22.88	22.96	22.94	0.5	24.5
			216	0	22.92	22.91	22.97	0.5	24.5
		QPSK	1	1	23.49	23.33	23.53	0.0	25.0
			1	109	23.31	23.45	23.40	0.0	25.0
			1	215	23.46	23.57	23.56	0.0	25.0
			108	0	22.54	22.41	22.58	1.0	24.0
			108	55	23.40	23.41	23.48	0.0	25.0
			108	109	22.39	22.57	22.50	1.0	24.0
	216	0	22.35	22.37	22.48	1.0	24.0		
16QAM	1	1	22.76	22.48	23.06	1.0	24.0		
64QAM	1	1	21.31	21.38	21.48	2.5	22.5		
256QAM	1	1	19.26	19.18	19.34	4.5	20.5		
CP-OFDM	QPSK	1	1	22.12	21.96	22.13	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					506202	518598	531000		
					2531.02 MHz	2592.99 MHz	2544.98 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.54	23.83	24.42	0.0	25.0
			1	95	23.41	23.88	24.28	0.0	25.0
			1	188	22.87	23.36	23.79	0.0	25.0
			90	0	23.13	23.45	23.94	0.5	24.5
			90	50	23.50	23.96	24.35	0.0	25.0
			90	99	22.99	23.46	24.02	0.5	24.5
			180	0	23.09	22.92	23.97	0.5	24.5
		QPSK	1	1	23.54	23.93	24.49	0.0	25.0
			1	95	23.44	23.84	24.38	0.0	25.0
			1	188	22.42	22.87	23.31	0.0	25.0
			90	0	22.56	23.00	23.57	1.0	24.0
			90	50	23.52	23.94	24.47	0.0	25.0
			90	99	22.56	23.01	23.51	1.0	24.0
	180	0	22.67	22.99	23.43	1.0	24.0		
16QAM	1	1	22.59	22.98	23.67	1.0	24.0		
64QAM	1	1	21.03	21.66	22.05	2.5	22.5		
256QAM	1	1	18.91	19.53	20.11	4.5	20.5		
CP-OFDM	QPSK	1	1	21.94	22.53	23.04	1.5	23.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					505200	518598	531996		
					2526 MHz	2592.99 MHz	2659.98 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.01	23.41	23.45	0.0	25.0
			1	81	23.44	23.48	23.32	0.0	25.0
			1	160	22.86	23.35	23.42	0.0	25.0
			81	0	22.72	22.96	22.85	0.5	24.5
			81	41	23.33	23.49	23.34	0.0	25.0
			81	81	22.72	22.99	22.96	0.5	24.5
			162	0	22.77	22.97	22.90	0.5	24.5
		QPSK	1	1	22.82	23.41	23.50	0.0	25.0
			1	81	23.31	23.53	23.34	0.0	25.0
			1	160	22.70	23.38	23.43	0.0	25.0
			81	0	22.16	22.48	22.35	1.0	24.0
			81	41	23.34	23.48	23.31	0.0	25.0
			81	81	22.19	22.48	22.48	1.0	24.0
			162	0	22.27	22.45	22.43	1.0	24.0
16QAM	1	1	21.83	22.57	22.62	1.0	24.0		
64QAM	1	1	20.64	21.38	21.39	2.5	22.5		
256QAM	1	1	18.49	19.03	19.17	4.5	20.5		
CP-OFDM	QPSK	1	1	21.36	21.99	22.02	1.5	23.5	
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 MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.14	23.49	23.50	0.0	25.0
			1	67	23.39	23.58	23.42	0.0	25.0
			1	131	23.18	23.57	23.54	0.0	25.0
			64	0	22.85	23.03	22.90	0.5	24.5
			64	35	23.39	23.56	23.44	0.0	25.0
			64	69	22.77	22.99	22.93	0.5	24.5
			128	0	22.78	23.03	23.01	0.5	24.5
		QPSK	1	1	23.14	23.44	22.80	0.0	25.0
			1	67	23.40	23.56	23.45	0.0	25.0
			1	131	23.15	23.65	23.61	0.0	25.0
			64	0	22.34	22.49	22.58	1.0	24.0
			64	35	23.36	23.54	23.42	0.0	25.0
			64	69	22.29	22.46	22.47	1.0	24.0
			128	0	22.30	22.54	22.50	1.0	24.0
16QAM	1	1	22.65	22.74	22.66	1.0	24.0		
64QAM	1	1	21.01	21.22	21.43	2.5	22.5		
256QAM	1	1	18.99	19.08	19.08	4.5	20.5		
CP-OFDM	QPSK	1	1	21.74	22.08	22.09	1.5	23.5	

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 MHz		
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.64	23.54	23.59	0.0	25.0
			1	53	23.51	23.55	23.51	0.0	25.0
			1	104	23.57	23.72	23.64	0.0	25.0
			50	0	23.04	23.03	23.04	0.5	24.5
			50	28	23.56	23.63	23.55	0.0	25.0
			50	56	23.04	23.22	23.14	0.5	24.5
			100	0	23.07	23.15	23.21	0.5	24.5
		QPSK	1	1	23.71	23.53	23.71	0.0	25.0
			1	53	23.54	23.56	23.60	0.0	25.0
			1	104	23.60	23.79	23.75	0.0	25.0
			50	0	22.53	22.55	22.62	1.0	24.0
			50	28	23.54	23.62	23.63	0.0	25.0
			50	56	22.49	22.70	22.73	1.0	24.0
			100	0	22.59	22.54	22.69	1.0	24.0
16QAM	1	1	22.68	22.67	22.88	1.0	24.0		
64QAM	1	1	21.40	21.28	21.64	2.5	22.5		
256QAM	1	1	19.41	18.86	19.34	4.5	20.5		
CP-OFDM	QPSK	1	1	22.28	22.13	22.32	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					502200	518598	534996		
					2511 MHz	2592.99 MHz	2675.0 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.75	23.71	23.63	0.0	25.0
			1	53	23.60	23.60	23.66	0.0	25.0
			1	104	23.65	23.76	23.72	0.0	25.0
			50	0	23.20	23.20	23.18	0.5	24.5
			50	28	23.63	23.67	23.69	0.0	25.0
			50	56	23.26	23.24	23.23	0.5	24.5
			100	0	23.13	23.28	23.12	0.5	24.5
		QPSK	1	1	23.78	23.70	23.63	0.0	25.0
			1	53	23.65	23.60	23.68	0.0	25.0
			1	104	23.72	23.82	23.74	0.0	25.0
			50	0	22.72	22.65	22.67	1.0	24.0
			50	28	23.68	23.69	23.66	0.0	25.0
			50	56	22.72	22.68	22.78	1.0	24.0
			100	0	22.70	22.71	22.66	1.0	24.0
16QAM	1	1	23.05	22.82	23.13	1.0	24.0		
64QAM	1	1	21.58	21.63	21.37	2.5	22.5		
256QAM	1	1	19.49	19.34	19.31	4.5	20.5		
CP-OFDM	QPSK	1	1	22.38	22.21	22.22	1.5	23.5	

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	1	23.77	23.66	23.99	0.0	25.0	
			1	26	23.62	23.58	24.08	0.0	25.0	
			1	49	23.68	23.64	24.09	0.0	25.0	
			25	0	23.27	23.12	23.60	0.5	24.5	
			25	13	23.68	23.59	24.10	0.0	25.0	
			25	26	23.14	23.06	23.65	0.5	24.5	
			50	0	23.16	23.12	23.54	0.5	24.5	
		QPSK	1	1	23.84	23.68	24.12	0.0	25.0	
			1	26	23.70	23.58	24.18	0.0	25.0	
			1	49	23.76	23.63	24.18	0.0	25.0	
			25	0	22.72	22.63	23.13	1.0	24.0	
			25	13	23.67	23.54	24.06	0.0	25.0	
			25	26	22.62	22.58	23.08	1.0	24.0	
			50	0	22.72	22.61	23.08	1.0	24.0	
16QAM	1	1	23.02	22.80	22.91	1.0	24.0			
64QAM	1	1	21.59	21.40	21.63	2.5	22.5			
256QAM	1	1	19.42	19.25	19.65	4.5	20.5			
CP-OFDM	QPSK	1	1	22.40	22.18	22.57	1.5	23.5		
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	
					500700	518598	536496			
					2503.5 MHz	2592.99 MHz	2682.48MHz			
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.74	23.68	24.16	0.0	25.0	
			1	19	23.57	23.52	24.17	0.0	25.0	
			1	36	23.59	23.62	24.16	0.0	25.0	
			19	0	23.25	23.15	23.61	0.5	24.5	
			19	9	23.14	23.07	23.65	0.0	25.0	
			19	19	23.21	23.11	23.62	0.5	24.5	
			38	0	23.25	23.14	23.61	0.5	24.5	
		QPSK	1	1	23.83	23.71	24.25	0.0	25.0	
			1	19	23.63	23.57	24.28	0.0	25.0	
			1	36	23.69	23.58	24.25	0.0	25.0	
			19	0	22.73	22.60	23.13	1.0	24.0	
			19	9	22.72	22.59	23.17	0.0	25.0	
			19	19	22.66	22.60	23.19	1.0	24.0	
			38	0	22.71	22.59	23.10	1.0	24.0	
		16QAM	1	1	23.24	22.88	23.24	1.0	24.0	
		64QAM	1	1	21.68	21.67	22.03	2.5	22.5	
		256QAM	1	1	19.55	19.36	19.77	4.5	20.5	
		CP-OFDM	QPSK	1	1	22.41	22.21	22.71	1.5	23.5

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 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.23	23.67	24.35	0.0	25.0
			1	12	23.22	23.63	24.35	0.0	25.0
			1	22	23.20	23.62	24.35	0.0	25.0
			12	0	22.77	23.12	23.85	0.5	24.5
			12	6	23.27	23.67	24.36	0.0	25.0
			12	12	22.77	23.18	23.90	0.5	24.5
			24	0	22.75	23.21	23.80	0.5	24.5
		QPSK	1	1	23.25	23.70	24.43	0.0	25.0
			1	12	23.29	23.69	24.39	0.0	25.0
			1	22	23.27	23.69	24.34	0.0	25.0
			12	0	22.25	22.68	23.40	1.0	24.0
			12	6	23.28	23.65	24.36	0.0	25.0
			12	12	22.26	22.68	23.38	1.0	24.0
		24	0	22.28	22.68	23.33	1.0	24.0	
		16QAM	1	1	22.34	22.74	23.35	1.0	24.0
		64QAM	1	1	20.76	21.25	21.95	2.5	22.5
		256QAM	1	1	18.69	19.06	19.68	4.5	20.5
CP-OFDM	QPSK	1	1	21.83	22.23	22.93	1.5	23.5	

NR Band n41(SRS1)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)				Tune-up Limit
			SRS1			MPR	
			Measured Pwr (dBm)				22.0
100 MHz	1	1	509202	518598	528000	MPR	
			2546.01 MHz	2592.99 MHz	2640 MHz		
			20.17	20.64	20.45		0.0
90 MHz	1	1	508200	518598	528996	MPR	22.0
			2541 MHz	2592.99 MHz	2644.98 MHz		
			20.28	20.43	20.47		
80 MHz	1	1	507204	518598	529998	MPR	22.0
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			20.41	20.45	20.48		
70 MHz	1	1	506202	518598	531000	MPR	22.0
			2531.02 MHz	2592.99 MHz	2544.98 MHz		
			20.39	20.45	20.42		
60 MHz	1	1	505200	518598	531996	MPR	22.0
			2526 MHz	2592.99 MHz	2659.98 MHz		
			20.26	20.64	20.62		
50 MHz	1	1	504204	518598	532998	MPR	22.0
			2521.01 MHz	2592.99 MHz	2665 MHz		
			20.32	20.78	20.67		
40 MHz	1	1	503202	518598	534000	MPR	22.0
			2516.01 MHz	2592.99 MHz	2670 MHz		
			20.34	20.80	20.71		
30 MHz	1	1	502200	518598	534996	MPR	22.0
			2511 MHz	2592.99 MHz	2675.0 MHz		
			20.25	20.78	20.76		
20 MHz	1	1	501204	518598	535998	MPR	22.0
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			20.30	20.63	20.69		
15 MHz	1	1	500700	518598	536496	MPR	22.0
			2503.5 MHz	2592.99 MHz	2682.48 MHz		
			20.46	19.93	19.94		
10 MHz	1	1	500202	518598	537000	MPR	22.0
			2501.01 MHz	2592.99 MHz	2685 MHz		
			20.50	19.80	19.79		

NR Band n41(SRS2)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)				MPR	Tune-up Limit
			SRS2			Measured Pwr (dBm)		
100 MHz	1	1	509202	518598	528000		0.0	20.5
			2546.01 MHz	2592.99 MHz	2640 MHz			
			19.37	19.14	19.18			
90 MHz	1	1	508200	518598	528996	0.0	20.5	
			2541 MHz	2592.99 MHz	2644.98 MHz			
			19.29	19.15	19.14			
80 MHz	1	1	507204	518598	529998	0.0	20.5	
			2536.02 MHz	2592.99 MHz	2649.99 MHz			
			19.27	19.13	19.10			
70 MHz	1	1	506202	518598	531000	0.0	20.5	
			2531.02 MHz	2592.99 MHz	2544.98 MHz			
			19.24	19.38	19.15			
60 MHz	1	1	505200	518598	531996	0.0	20.5	
			2526 MHz	2592.99 MHz	2659.98 MHz			
			19.33	19.27	19.17			
50 MHz	1	1	504204	518598	532998	0.0	20.5	
			2521.01 MHz	2592.99 MHz	2665 MHz			
			19.45	19.38	19.18			
40 MHz	1	1	503202	518598	534000	0.0	20.5	
			2516.01 MHz	2592.99 MHz	2670 MHz			
			19.46	19.45	19.30			
30 MHz	1	1	502200	518598	534996	0.0	20.5	
			2511 MHz	2592.99 MHz	2675.0 MHz			
			19.42	19.40	19.33			
20 MHz	1	1	501204	518598	535998	0.0	20.5	
			2506.02 MHz	2592.99 MHz	2679.99 MHz			
			19.50	19.28	19.23			
15 MHz	1	1	500700	518598	536496	0.0	20.5	
			2503.5 MHz	2592.99 MHz	2682.48 MHz			
			19.38	19.37	19.34			
10 MHz	1	1	500202	518598	537000	0.0	20.5	
			2501.01 MHz	2592.99 MHz	2685 MHz			
			19.43	19.29	19.20			

NR Band n41(SRS3)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm) SRS3				
			Measured Pwr (dBm)			MPR	Tune-up Limit
100 MHz	1	1	509202	518598	528000		
			2546.01 MHz	2592.99 MHz	2640 MHz		
			18.06	17.52	17.30		
90 MHz	1	1	508200	518598	528996	0.0	19.0
			2541 MHz	2592.99 MHz	2644.98 MHz		
			18.11	17.43	17.25		
80 MHz	1	1	507204	518598	529998	0.0	19.0
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			18.20	17.44	17.12		
70 MHz	1	1	506202	518598	531000	0.0	19.0
			2531.02 MHz	2592.99 MHz	2544.98 MHz		
			18.25	17.48	17.38		
60 MHz	1	1	505200	518598	531996	0.0	19.0
			2526 MHz	2592.99 MHz	2659.98 MHz		
			18.39	17.51	17.18		
50 MHz	1	1	504204	518598	532998	0.0	19.0
			2521.01 MHz	2592.99 MHz	2665 MHz		
			18.62	17.62	17.21		
40 MHz	1	1	503202	518598	534000	0.0	19.0
			2516.01 MHz	2592.99 MHz	2670 MHz		
			18.69	17.71	17.31		
30 MHz	1	1	502200	518598	534996	0.0	19.0
			2511 MHz	2592.99 MHz	2675.0 MHz		
			18.77	17.73	17.40		
20 MHz	1	1	501204	518598	535998	0.0	19.0
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			18.86	17.61	17.20		
15 MHz	1	1	500700	518598	536496	0.0	19.0
			2503.5 MHz	2592.99 MHz	2682.48 MHz		
			18.90	17.75	17.26		
10 MHz	1	1	500202	518598	537000	0.0	19.0
			2501.01 MHz	2592.99 MHz	2685 MHz		
			18.96	17.65	17.20		

NR Band n66 (Main1 Ant)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000		
					1720 MHz	1745 MHz	1770 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.68	22.70	22.54	0.0	24.0
			1	53	22.52	22.53	22.53	0.0	24.0
			1	104	22.59	22.63	22.70	0.0	24.0
			50	0	21.77	21.75	21.73	0.5	23.5
			50	28	22.72	22.65	22.70	0.0	24.0
			50	56	21.78	21.66	21.78	0.5	23.5
		QPSK	100	0	21.69	21.69	21.73	0.5	23.5
			1	1	22.82	22.78	22.67	0.0	24.0
			1	53	22.63	22.61	22.65	0.0	24.0
			1	104	22.71	22.85	22.84	0.0	24.0
			50	0	21.71	21.70	21.71	1.0	23.0
			50	28	22.69	22.75	22.72	0.0	24.0
		16QAM	50	56	21.74	21.71	21.81	1.0	23.0
			100	0	21.74	21.77	21.76	1.0	23.0
			1	1	21.73	21.75	21.62	1.0	23.0
		64QAM	1	53	21.60	21.63	21.65	1.0	23.0
			1	104	21.70	21.75	21.74	1.0	23.0
		256QAM	1	1	20.46	20.47	20.33	2.5	21.5
17.76	17.72	17.59	4.5	19.5					
CP-OFDM	QPSK	1	1	21.35	21.33	21.15	1.5	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500		
					1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.46	22.45	22.51	0.0	24.0
			1	40	22.48	22.46	22.53	0.0	24.0
			1	77	22.44	22.45	22.52	0.0	24.0
			36	0	21.58	21.57	21.64	0.5	23.5
			36	22	22.56	22.52	22.63	0.0	24.0
			36	43	21.51	21.52	21.62	0.5	23.5
		QPSK	75	0	21.50	21.53	21.64	0.5	23.5
			1	1	22.54	22.53	22.63	0.0	24.0
			1	40	22.52	22.52	22.64	0.0	24.0
			1	77	22.48	22.52	22.60	0.0	24.0
			36	0	21.55	21.53	21.64	1.0	23.0
			36	22	22.53	22.57	22.64	0.0	24.0
		16QAM	36	43	21.57	21.58	21.66	1.0	23.0
			75	0	21.55	21.55	21.66	1.0	23.0
			1	1	21.53	21.56	21.59	1.0	23.0
		64QAM	1	1	20.21	20.20	20.31	2.5	21.5
		256QAM	1	1	17.54	17.54	17.63	4.5	19.5
		CP-OFDM	QPSK	1	1	21.12	21.05	21.11	1.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000		
					1715 MHz	1745 MHz	1775 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.52	22.39	22.57	0.0	24.0
			1	26	22.49	22.45	22.59	0.0	24.0
			1	50	22.53	22.45	22.56	0.0	24.0
			25	0	21.54	21.55	21.69	0.5	23.5
			25	14	22.57	22.55	22.66	0.0	24.0
			25	27	21.52	21.51	21.71	0.5	23.5
			50	0	21.57	21.50	21.63	0.5	23.5
		QPSK	1	1	22.62	22.42	22.69	0.0	24.0
			1	26	22.61	22.57	22.69	0.0	24.0
			1	50	22.62	22.52	22.66	0.0	24.0
			25	0	21.60	21.53	21.70	1.0	23.0
			25	14	22.56	22.53	22.67	0.0	24.0
			25	27	21.58	21.51	21.68	1.0	23.0
		50	0	21.55	21.49	21.65	1.0	23.0	
16QAM	1	1	21.57	21.47	21.67	1.0	23.0		
64QAM	1	1	20.23	20.11	20.36	2.5	21.5		
256QAM	1	1	17.56	17.44	17.63	4.5	19.5		
CP-OFDM	QPSK	1	1	21.08	20.96	21.14	1.5	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500		
					1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.58	22.55	22.49	0.0	24.0
			1	13	22.43	22.46	22.54	0.0	24.0
			1	23	22.60	22.48	22.59	0.0	24.0
			12	0	21.72	21.64	21.61	0.5	23.5
			12	7	22.65	22.55	22.57	0.0	24.0
			12	13	21.69	21.55	21.69	0.5	23.5
			25	0	21.69	21.55	21.62	0.5	23.5
		QPSK	1	1	22.71	22.63	22.60	0.0	24.0
			1	13	22.62	22.55	22.63	0.0	24.0
			1	23	22.73	22.55	22.72	0.0	24.0
			12	0	21.70	21.60	21.65	1.0	23.0
			12	7	22.63	22.60	22.59	0.0	24.0
			12	13	21.71	21.61	21.70	1.0	23.0
			25	0	21.68	21.62	21.62	1.0	23.0
		16QAM	1	1	21.67	21.62	21.62	1.0	23.0
		64QAM	1	1	20.30	20.26	20.31	2.5	21.5
		256QAM	1	1	17.68	17.59	17.54	4.5	19.5
		CP-OFDM	QPSK	1	1	21.24	21.17	21.10	1.5

NR Band n66 (Sub2 Ant)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000		
					1720 MHz	1745 MHz	1770 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.53	22.97	22.90	0.0	24.0
			1	53	22.73	23.05	22.75	0.0	24.0
			1	104	22.96	23.15	22.76	0.0	24.0
			50	0	22.31	22.73	22.54	0.5	23.5
			50	28	22.92	23.24	23.00	0.0	24.0
			50	56	22.52	22.70	22.49	0.5	23.5
		QPSK	100	0	22.37	22.70	22.48	0.5	23.5
			1	1	22.53	23.06	23.03	0.0	24.0
			1	53	22.73	23.10	22.90	0.0	24.0
			1	104	23.01	23.20	22.83	0.0	24.0
			50	0	21.77	22.21	22.11	1.0	23.0
			50	28	22.92	23.25	23.01	0.0	24.0
		16QAM	50	56	22.04	22.24	22.03	1.0	23.0
			100	0	21.92	22.17	21.97	1.0	23.0
			1	1	21.62	22.03	22.03	1.0	23.0
		64QAM	1	53	21.77	22.09	21.93	1.0	23.0
			1	104	22.00	22.21	21.93	1.0	23.0
			1	1	20.10	20.81	20.64	2.5	21.5
256QAM	1	1	18.12	18.61	18.53	4.5	19.5		
	CP-OFDM	QPSK	1	1	20.97	21.47	21.32	1.5	22.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500		
					1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.47	22.97	22.74	0.0	24.0
			1	40	22.73	23.04	22.57	0.0	24.0
			1	77	22.87	23.11	22.64	0.0	24.0
			36	0	22.31	22.70	22.30	0.5	23.5
			36	22	22.87	23.19	22.81	0.0	24.0
			36	43	22.43	22.75	22.39	0.5	23.5
		QPSK	75	0	22.43	22.67	22.40	0.5	23.5
			1	1	22.62	22.97	22.91	0.0	24.0
			1	40	22.80	23.10	22.73	0.0	24.0
			1	77	22.96	23.14	22.75	0.0	24.0
			36	0	21.86	22.22	21.95	1.0	23.0
			36	22	23.01	23.26	22.97	0.0	24.0
		16QAM	36	43	21.97	22.23	21.98	1.0	23.0
			75	0	21.97	22.21	21.92	1.0	23.0
			1	1	21.63	22.01	21.97	1.0	23.0
		64QAM	1	1	20.35	20.64	20.23	2.5	21.5
			256QAM	1	1	18.25	18.53	18.43	4.5
		CP-OFDM	QPSK	1	1	21.10	21.40	21.37	1.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000		
					1715 MHz	1745 MHz	1775 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.49	22.91	22.64	0.0	24.0
			1	26	23.12	23.71	22.71	0.0	24.0
			1	50	22.67	23.01	22.61	0.0	24.0
			25	0	22.43	22.82	22.23	0.5	23.5
			25	14	23.19	23.61	22.77	0.0	24.0
			25	27	22.74	22.91	22.20	0.5	23.5
			50	0	22.61	22.91	22.23	0.5	23.5
		QPSK	1	1	22.41	23.01	22.71	0.0	24.0
			1	26	23.11	23.74	22.82	0.0	24.0
			1	50	22.73	22.97	22.73	0.0	24.0
			25	0	22.00	22.43	21.76	1.0	23.0
			25	14	23.16	23.60	22.80	0.0	24.0
			25	27	22.16	22.47	21.78	1.0	23.0
			50	0	22.01	22.41	21.76	1.0	23.0
16QAM	1	1	21.49	21.90	21.64	1.0	23.0		
64QAM	1	1	20.21	20.13	20.32	2.5	21.5		
256QAM	1	1	18.12	18.54	18.34	4.5	19.5		
CP-OFDM	QPSK	1	1	20.81	21.40	21.05	1.5	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500		
					1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.45	22.78	22.56	0.0	24.0
			1	13	22.52	22.90	22.57	0.0	24.0
			1	23	22.53	22.91	22.61	0.0	24.0
			12	0	22.06	22.45	22.12	0.5	23.5
			12	7	22.52	22.99	22.71	0.0	24.0
			12	13	22.12	22.51	22.10	0.5	23.5
			25	0	21.94	22.51	22.14	0.5	23.5
		QPSK	1	1	22.50	22.84	22.70	0.0	24.0
			1	13	22.55	23.01	22.70	0.0	24.0
			1	23	22.54	22.95	22.64	0.0	24.0
			12	0	21.50	21.96	21.77	1.0	23.0
			12	7	22.58	23.00	22.80	0.0	24.0
			12	13	21.55	21.97	21.74	1.0	23.0
			25	0	21.66	22.02	21.78	1.0	23.0
		16QAM	1	1	21.58	21.83	21.92	1.0	23.0
		64QAM	1	1	20.37	20.12	20.51	2.5	21.5
		256QAM	1	1	18.45	18.51	18.23	4.5	19.5
		CP-OFDM	QPSK	1	1	21.15	21.20	21.14	1.5

NR Band n77

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
					Measured Pwr (dBm)							
					633332	650000	656000	662000				
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.26	23.55	24.02	23.55	24.49	0.0	25.5	
			1	137	24.58	24.13	24.32	24.57	0.0	25.5		
			1	271	24.41	24.13	24.52	24.57	0.0	25.5		
			135	0	24.05	23.41	23.70	24.04	0.5	25.0		
			135	69	24.62	24.11	24.31	24.56	0.0	25.5		
			135	138	23.99	23.58	23.97	24.19	0.5	25.0		
		270	0	23.92	23.58	23.85	24.07	0.5	25.0			
		QPSK	1	1	24.18	23.55	24.02	24.61	0.0	25.5		
			1	137	24.56	24.13	24.40	24.46	0.0	25.5		
			1	271	24.42	24.22	24.74	24.73	0.0	25.5		
			135	0	23.46	22.90	23.20	23.56	1.0	24.5		
			135	69	24.57	24.08	24.33	24.49	0.0	25.5		
			135	138	23.52	23.08	23.46	23.59	1.0	24.5		
		270	0	23.46	23.06	23.38	23.48	1.0	24.5			
		16QAM	1	1	22.24	22.69	23.47	23.85	1.0	24.5		
			1	137	23.13	23.29	23.40	23.85	1.0	24.5		
64QAM	1	271	23.52	23.24	23.69	23.92	1.0	24.5				
	1	1	22.32	21.51	21.85	22.37	2.5	23.0				
256QAM	1	1	19.76	19.15	19.77	20.02	4.5	21.0				
CP-OFDM	QPSK	1	1	22.68	22.22	22.69	23.25	1.5	24.0			
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					633000	633332	633666	649666	656000	662332		
					3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.20	24.33	24.28	23.73	24.17	24.56	0.0	25.5
			123	1	24.50	24.55	24.50	24.20	24.37	24.60	0.0	25.5
			243	1	24.39	24.46	24.31	24.18	24.61	24.65	0.0	25.5
			0	120	23.90	24.03	23.97	23.47	23.71	24.07	0.5	25.0
			63	120	24.50	24.64	24.56	24.20	24.39	24.56	0.0	25.5
			125	120	23.96	24.04	23.95	23.58	23.96	24.09	0.5	25.0
		0	243	23.97	23.99	24.02	23.57	23.84	23.96	0.5	25.0	
		QPSK	1	1	24.20	24.32	24.30	23.69	24.25	24.52	0.0	25.5
			123	1	24.52	24.60	24.57	24.17	24.40	24.51	0.0	25.5
			243	1	24.44	24.36	24.44	24.19	24.72	24.72	0.0	25.5
			0	120	23.42	23.49	23.46	22.94	23.20	23.52	1.0	24.5
			63	120	24.55	24.58	24.56	24.15	24.38	24.51	0.0	25.5
			125	120	23.49	23.52	23.47	23.07	23.46	23.52	1.0	24.5
		0	243	23.46	23.54	23.53	23.03	23.30	23.52	1.0	24.5	
		16QAM	1	1	23.43	23.32	23.50	22.82	23.04	23.51	1.0	24.5
		64QAM	1	1	21.73	21.78	22.08	21.60	21.91	22.44	2.5	23.0
256QAM	1	1	19.92	19.88	20.03	19.24	19.76	20.09	4.5	21.0		
CP-OFDM	QPSK	1	1	22.79	22.84	22.91	22.26	22.76	23.15	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					632668	633332	634000	649334	656000	662666		
					3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz		
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.23	24.09	20.95	23.61	24.21	24.59	0.0	25.5
			1	109	24.33	24.49	24.44	24.19	24.18	24.39	0.0	25.5
			1	215	24.38	24.33	20.84	24.01	24.49	24.35	0.0	25.5
			108	0	23.62	23.58	23.92	23.41	23.76	24.00	0.5	25.0
			108	55	24.40	24.37	24.37	24.13	24.38	24.46	0.0	25.5
			108	109	23.89	23.85	23.90	23.54	24.04	23.89	0.5	25.0
		216	0	23.80	23.73	23.76	23.55	23.87	24.15	0.5	25.0	
		QPSK	1	1	24.14	24.00	24.28	23.61	24.09	24.62	0.0	25.5
			1	109	24.34	24.24	24.31	23.97	24.37	24.69	0.0	25.5
			1	215	24.37	24.09	24.21	24.14	24.60	24.54	0.0	25.5
			108	0	23.22	23.28	23.38	22.96	23.22	23.61	1.0	24.5
			108	55	24.33	24.37	24.49	24.15	24.39	24.52	0.0	25.5
			108	109	23.46	23.38	23.39	23.05	23.32	23.37	1.0	24.5
		216	0	23.20	23.42	23.37	22.84	23.33	23.63	1.0	24.5	
		16QAM	1	1	23.23	23.14	23.51	22.65	23.15	23.71	1.0	24.5
		64QAM	1	1	21.47	21.39	21.82	21.16	21.69	22.25	2.5	23.0
256QAM	1	1	19.68	19.79	19.91	19.21	19.49	20.15	4.5	21.0		
CP-OFDM	QPSK	1	1	22.50	22.61	22.65	22.20	22.61	23.10	1.5	24.0	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					632334	633332	634332	649000	656000	663000		
					3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.90	24.05	24.22	23.54	23.87	24.09	0.0	25.5
			1	109	24.25	24.25	24.13	23.96	24.05	24.25	0.0	25.5
			1	187	24.18	24.11	23.95	23.85	24.05	24.22	0.0	25.5
			96	0	23.70	23.75	23.78	23.41	23.53	23.75	0.5	25.0
			96	47	23.73	23.85	23.80	23.49	23.63	23.87	0.0	25.5
			96	94	23.74	23.75	23.64	23.52	23.67	23.85	0.5	25.0
		180	0	23.68	23.81	23.70	23.42	23.61	23.78	0.5	25.0	
		QPSK	1	1	23.90	24.05	24.29	23.53	23.97	24.15	0.0	25.5
			1	109	24.25	24.27	24.20	24.03	23.92	24.30	0.0	25.5
			1	187	24.12	24.07	23.97	23.78	24.11	24.20	0.0	25.5
			96	0	23.11	23.33	23.37	22.70	24.13	23.27	1.0	24.5
			96	47	23.16	23.34	23.33	22.91	23.01	23.31	0.0	25.5
			96	94	23.30	23.26	23.16	22.93	23.12	23.28	1.0	24.5
		180	0	23.15	23.33	23.31	22.80	23.17	23.32	1.0	24.5	
16QAM	1	1	22.97	22.97	23.07	22.45	22.87	23.01	1.0	24.5		
64QAM	1	1	21.74	21.82	21.55	20.88	21.63	21.55	2.5	23.0		
256QAM	1	1	19.04	19.13	18.86	18.78	19.16	19.23	4.5	21.0		
CP-OFDM	QPSK	1	1	22.56	22.37	22.56	21.91	22.37	22.63	1.5	24.0	
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.39	24.41	24.71	20.40	23.59	24.00	0.0	25.5
			1	81	24.65	24.72	24.71	23.96	24.03	24.45	0.0	25.5
			1	160	24.53	24.68	24.32	23.75	23.81	23.80	0.0	25.5
			81	0	24.07	24.25	24.19	23.29	23.45	23.72	0.5	25.0
			81	41	24.60	24.74	24.51	23.75	24.13	24.34	0.0	25.5
			81	81	24.18	24.12	23.91	23.50	23.69	23.67	0.5	25.0
		162	0	24.10	24.30	23.97	23.35	23.63	23.58	0.5	25.0	
		QPSK	1	1	24.30	24.60	24.55	23.47	23.74	24.04	0.0	25.5
			1	81	24.76	24.78	24.75	23.86	24.30	24.46	0.0	25.5
			1	160	24.75	24.52	24.29	23.91	23.93	24.08	0.0	25.5
			81	0	23.63	23.72	23.77	22.79	22.99	23.26	1.0	24.5
			81	41	24.55	24.66	24.65	23.96	24.10	24.27	0.0	25.5
			81	81	23.78	23.68	23.49	22.91	23.14	23.19	1.0	24.5
		162	0	23.76	23.79	23.53	22.78	22.92	23.38	1.0	24.5	
16QAM	1	1	23.46	23.73	23.70	22.78	22.62	22.94	1.0	24.5		
64QAM	1	1	21.87	21.83	22.22	20.90	21.10	21.28	2.5	23.0		
256QAM	1	1	19.82	19.96	20.17	19.22	19.02	19.45	4.5	21.0		
CP-OFDM	QPSK	1	1	23.01	23.03	23.22	22.10	22.08	22.41	1.5	24.0	
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.55	24.72	24.69	23.98	24.32	24.26	0.0	25.5
			67	1	24.66	24.62	24.55	24.17	24.46	24.37	0.0	25.5
			131	1	24.72	24.50	24.30	24.20	24.67	24.21	0.0	25.5
			0	64	24.02	24.20	24.17	23.49	23.85	23.69	0.5	25.0
			35	64	24.64	24.72	24.55	24.09	24.47	24.15	0.0	25.5
			69	64	24.15	24.11	23.93	23.75	23.97	23.56	0.5	25.0
		0	128	24.10	24.16	24.08	23.55	23.86	23.70	0.5	25.0	
		QPSK	1	1	24.47	24.67	24.78	23.91	24.36	24.28	0.0	25.5
			67	1	24.60	24.62	24.58	24.20	24.55	24.32	0.0	25.5
			131	1	24.60	24.65	24.40	24.22	24.59	24.24	0.0	25.5
			0	64	23.51	23.63	23.72	22.93	23.34	23.25	1.0	24.5
			35	64	24.56	24.68	24.65	24.18	24.46	24.06	0.0	25.5
			69	64	23.57	23.61	23.57	23.31	23.50	23.11	1.0	24.5
		0	128	23.50	23.67	23.58	23.15	23.40	23.08	1.0	24.5	
16QAM	1	1	23.63	23.76	23.93	23.07	23.41	23.39	1.0	24.5		
64QAM	1	1	22.38	22.59	22.72	21.83	22.30	22.19	2.5	23.0		
256QAM	1	1	20.08	20.26	20.42	19.55	19.99	19.78	4.5	21.0		
CP-OFDM	QPSK	1	1	22.93	23.24	23.34	22.56	23.03	22.82	1.5	24.0	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					631334	633332	635332	648000	656000	664000		
					3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.55	24.92	24.39	24.26	24.68	24.68	0.0	25.5
			1	53	24.63	24.83	24.41	24.23	24.66	24.43	0.0	25.5
			1	104	24.92	25.01	23.86	24.38	24.85	24.63	0.0	25.5
			50	0	24.14	24.46	23.87	23.75	24.10	24.19	0.5	25.0
			50	28	24.65	24.89	24.56	24.19	24.70	24.48	0.0	25.5
			50	56	24.27	24.40	23.71	23.88	24.46	24.00	0.5	25.0
		100	0	24.24	24.31	23.87	23.75	24.26	24.15	0.5	25.0	
		QPSK	1	1	24.52	24.92	24.37	24.21	24.67	24.58	0.0	25.5
			1	53	24.67	24.70	24.52	24.19	24.70	24.57	0.0	25.5
			1	104	24.90	24.91	24.08	24.51	24.94	24.45	0.0	25.5
			50	0	23.83	24.00	23.63	23.12	23.66	23.63	1.0	24.5
			50	28	24.58	24.95	24.53	24.17	24.86	24.43	0.0	25.5
50	56		23.96	24.00	23.29	23.26	23.75	23.46	1.0	24.5		
100	0	23.57	23.98	23.52	23.31	23.67	23.52	1.0	24.5			
16QAM	1	1	23.81	23.99	23.48	23.06	23.71	23.62	1.0	24.5		
64QAM	1	1	22.20	22.54	21.90	21.87	22.05	22.17	2.5	23.0		
256QAM	1	1	20.20	20.55	19.96	19.81	20.13	19.96	4.5	21.0		
CP-OFDM	QPSK	1	1	23.23	23.53	22.83	22.88	23.10	23.15	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					631000	633332	635668	647668	656000	664332		
					3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.43	25.02	24.71	24.09	24.61	21.63	0.0	25.5
			1	39	24.30	24.70	24.69	23.93	24.66	24.46	0.0	25.5
			1	76	24.59	24.83	24.56	24.08	24.72	24.35	0.0	25.5
			36	0	23.72	24.41	24.42	23.47	24.18	23.90	0.5	25.0
			36	21	24.42	24.74	24.80	24.31	24.65	24.44	0.0	25.5
			36	42	24.02	24.33	23.99	23.79	24.27	23.80	0.5	25.0
			75	0	23.94	24.31	24.26	23.51	24.09	23.87	0.5	25.0
		QPSK	1	1	24.26	24.84	24.81	24.22	24.59	24.51	0.0	25.5
			1	39	24.24	24.53	24.50	24.29	24.69	24.10	0.0	25.5
			1	76	24.53	24.82	24.71	24.34	24.60	24.14	0.0	25.5
			36	0	23.24	24.00	23.88	22.85	23.56	23.47	1.0	24.5
			36	21	24.27	24.84	24.74	24.18	24.63	24.31	0.0	25.5
			36	42	23.55	23.96	23.72	23.32	23.67	23.45	1.0	24.5
		75	0	23.35	23.73	23.48	23.31	23.53	23.33	1.0	24.5	
		16QAM	1	1	23.57	24.12	23.77	23.02	23.61	23.49	1.0	24.5
		64QAM	1	1	21.97	22.54	22.32	21.80	21.95	21.98	2.5	23.0
		256QAM	1	1	19.93	20.42	20.43	19.54	20.13	20.07	4.5	21.0
		CP-OFDM	QPSK	1	1	22.78	23.27	23.18	22.60	23.00	22.86	1.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					630668	633332	636000	647334	656000	664666		
					3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.53	24.70	24.72	23.79	24.55	24.42	0.0	25.5
			1	26	24.39	24.73	24.50	23.87	24.51	24.19	0.0	25.5
			1	49	24.45	24.79	24.41	24.15	24.41	24.21	0.0	25.5
			25	0	24.02	24.03	24.13	23.27	23.94	23.77	0.5	25.0
			25	13	24.26	24.69	24.57	23.96	24.45	24.22	0.0	25.5
			25	26	23.92	24.33	23.86	23.45	23.97	23.67	0.5	25.0
			50	0	23.97	24.04	23.95	23.53	23.95	23.68	0.5	25.0
		QPSK	1	1	24.54	24.61	24.62	23.81	24.35	24.38	0.0	25.5
			1	26	24.35	24.76	24.38	23.86	24.43	24.18	0.0	25.5
			1	49	24.48	24.59	24.47	24.02	24.50	24.40	0.0	25.5
			25	0	23.50	23.65	23.76	23.07	23.41	23.24	1.0	24.5
			25	13	24.48	24.74	24.51	23.84	24.43	24.24	0.0	25.5
			25	26	23.57	23.81	23.50	23.05	23.50	23.27	1.0	24.5
		50	0	23.49	23.85	23.52	22.83	23.44	23.28	1.0	24.5	
		16QAM	1	1	23.44	23.77	23.67	22.80	23.51	23.20	1.0	24.5
		64QAM	1	1	21.98	22.11	21.97	21.33	21.92	21.65	2.5	23.0
		256QAM	1	1	20.08	20.14	20.23	19.14	20.01	19.63	4.5	21.0
		CP-OFDM	QPSK	1	1	23.16	23.28	23.02	22.43	22.85	23.06	1.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					630500	633332	636168	647168	656000	664832		
					3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.28	24.52	24.46	23.86	24.54	24.29	0.0	25.5
			19	1	24.34	24.52	24.48	23.84	24.44	24.25	0.0	25.5
			36	1	24.54	24.61	24.42	24.07	24.59	24.17	0.0	25.5
			0	18	23.74	24.11	24.16	23.27	23.96	23.64	0.5	25.0
			10	18	24.26	24.63	24.54	23.69	24.51	24.04	0.0	25.5
			20	18	23.97	23.94	23.92	23.49	24.06	23.61	0.5	25.0
		0	36	23.92	24.10	23.97	23.44	23.93	23.64	0.5	25.0	
		QPSK	1	1	24.12	24.55	24.65	23.93	24.52	24.35	0.0	25.5
			19	1	24.13	24.59	24.41	23.88	24.50	24.16	0.0	25.5
			36	1	24.57	24.58	24.50	23.88	24.60	24.24	0.0	25.5
			0	18	23.29	23.39	23.43	22.88	23.45	23.18	1.0	24.5
			10	18	24.33	24.74	24.48	23.87	24.28	24.09	0.0	25.5
			20	18	23.21	23.53	23.26	22.77	23.49	23.23	1.0	24.5
0	36	23.49	23.66	23.63	22.74	23.49	23.13	1.0	24.5			
16QAM	1	1	23.41	23.46	23.39	22.97	23.53	23.21	1.0	24.5		
64QAM	1	1	21.89	22.13	22.03	21.56	22.14	21.82	2.5	23.0		
256QAM	1	1	19.84	20.16	19.91	19.55	19.94	19.64	4.5	21.0		
CP-OFDM	QPSK	1	1	22.86	23.20	23.09	22.29	23.00	22.78	1.5	24.0	
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.05	24.36	23.93	23.66	24.12	23.88	0.0	25.5
			12	1	23.84	24.34	23.95	23.68	24.30	23.89	0.0	25.5
			22	1	24.08	24.30	24.16	23.56	24.21	23.80	0.0	25.5
			0	12	23.49	23.84	23.53	23.06	23.68	23.41	0.5	25.0
			6	12	24.06	24.30	23.98	23.55	24.19	23.99	0.0	25.5
			12	12	23.37	23.87	23.62	23.04	23.67	23.46	0.5	25.0
		0	24	23.63	23.68	23.61	22.94	23.67	23.44	0.5	25.0	
		QPSK	1	1	23.97	24.18	24.14	23.56	24.16	23.86	0.0	25.5
			12	1	23.85	24.08	24.03	23.61	24.23	23.87	0.0	25.5
			22	1	24.04	24.08	23.97	23.67	24.19	23.98	0.0	25.5
			0	12	22.85	23.09	23.08	22.44	23.07	22.86	1.0	24.5
			6	12	23.90	24.25	23.99	23.59	24.24	23.90	0.0	25.5
			12	12	23.07	23.20	23.02	22.69	23.16	22.98	1.0	24.5
0	24	22.95	23.39	22.93	22.67	23.08	22.76	1.0	24.5			
16QAM	1	1	22.94	23.31	22.96	22.45	23.21	22.90	1.0	24.5		
64QAM	1	1	21.57	21.57	21.70	21.07	21.79	21.68	2.5	23.0		
256QAM	1	1	19.47	19.90	19.89	19.08	19.60	19.48	4.5	21.0		
CP-OFDM	QPSK	1	1	22.54	22.81	22.49	21.97	22.59	22.35	1.5	24.0	

NR Band n77(SRS1)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
			SRS1							
			Measured Pwr (dBm)							
100 MHz	1	1	633332		650000	656000	662000	0.0	22.5	
			3499.98MHz		3750 MHz	3840 MHz	3930 MHz			
90 MHz	1	1	21.47		21.44	21.30	21.65	0.0		
			633000	633332	633666	649666	656000			662332
80 MHz	1	1	3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz		0.0
			21.49	21.50	21.48	21.42	21.33	21.70		
70 MHz	1	1	632668	633332	634000	649334	656000	662666		0.0
			3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz		
60 MHz	1	1	632334	633332	634332	649000	656000	663000		0.0
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz		
50 MHz	1	1	21.53	21.50	21.48	21.54	21.30	21.63	0.0	
			632000	633332	634666	648668	656000	663332		
40 MHz	1	1	3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz	0.0	
			21.54	21.56	21.54	21.49	21.46	21.74		
30 MHz	1	1	631668	633332	635000	648334	656000	663666	0.0	
			3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz		
20 MHz	1	1	21.41	21.45	21.46	21.41	21.32	21.68	0.0	
			631334	633332	635332	648000	656000	664000		
15 MHz	1	1	3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz	0.0	
			21.69	21.77	21.72	21.63	21.51	21.96		
10 MHz	1	1	631000	633332	635668	647668	656000	664332	0.0	
			3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz		
	1	1	21.68	21.82	21.74	21.66	21.58	21.88	0.0	
			630668	633332	636000	647334	656000	664666		
	1	1	3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz	0.0	
			21.64	21.69	21.63	21.41	21.51	21.72		
	1	1	630500	633332	636168	647168	656000	664832	0.0	
			3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz		
	1	1	21.62	21.69	21.72	21.36	21.51	21.90	0.0	
			630334	633332	636666	647000	656000	665000		
	1	1	3455.01 MHz	3499.98 MHz	3549.99 MHz	3705 MHz	3840 MHz	3975 MHz	0.0	
			21.53	21.60	21.65	21.23	21.42	21.81		

NR Band n77(SRS2)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)						MPR	Tune-up Limit
			SRS2							
			Measured Pwr (dBm)							
100 MHz	1	1	633332		650000	656000	662000	0.0	21.5	
			3499.98MHz		3750 MHz	3840 MHz	3930 MHz			
90 MHz	1	1	633000	633332	633666	649666	656000	662332		0.0
			3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz		
80 MHz	1	1	632668	633332	634000	649334	656000	662666		0.0
			3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz		
70 MHz	1	1	632334	633332	634332	649000	656000	663000		0.0
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz		
60 MHz	1	1	632000	633332	634666	648668	656000	663332		0.0
			3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz		
50 MHz	1	1	631668	633332	635000	648334	656000	663666	0.0	
			3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz		
40 MHz	1	1	631334	633332	635332	648000	656000	664000	0.0	
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz		
30 MHz	1	1	631000	633332	635668	647668	656000	664332	0.0	
			3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz		
20 MHz	1	1	630668	633332	636000	647334	656000	664666	0.0	
			3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz		
15 MHz	1	1	630500	633332	636168	647168	656000	664832	0.0	
			3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz		
10 MHz	1	1	630334	633332	636666	647000	656000	665000	0.0	
			3455.01 MHz	3499.98 MHz	3549.99 MHz	3705 MHz	3840 MHz	3975 MHz		

NR Band n77(SRS3)

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)							MPR	Tune-up Limit
			SRS3								
			Measured Pwr (dBm)								
100 MHz	1	1	633332		650000	656000	662000			0.0	22.0
			3499.98MHz		3750 MHz	3840 MHz	3930 MHz				
			20.62		20.64	21.62	21.65				
90 MHz	1	1	633000	633332	633666	649666	656000	662332		0.0	22.0
			3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz			
			20.57	20.61	20.49	20.60	21.61	21.68			
80 MHz	1	1	632668	633332	634000	649334	656000	662666		0.0	22.0
			3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz			
			20.68	20.56	20.44	20.67	21.65	21.61			
70 MHz	1	1	632334	633332	634332	649000	656000	663000		0.0	22.0
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz			
			20.73	20.58	20.47	20.50	21.62	21.54			
60 MHz	1	1	632000	633332	634666	648668	656000	663332		0.0	22.0
			3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz			
			20.81	20.67	20.43	20.36	21.77	21.62			
50 MHz	1	1	631668	633332	635000	648334	656000	663666		0.0	22.0
			3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz			
			20.81	20.65	20.42	20.43	21.68	21.51			
40 MHz	1	1	631334	633332	635332	648000	656000	664000		0.0	22.0
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz			
			21.11	21.00	20.68	20.64	21.85	21.70			
30 MHz	1	1	631000	633332	635668	647668	656000	664332		0.0	22.0
			3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz			
			21.15	20.97	20.62	20.48	21.88	21.58			
20 MHz	1	1	630668	633332	636000	647334	656000	664666		0.0	22.0
			3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz			
			21.03	20.84	20.49	20.24	21.86	21.42			
15 MHz	1	1	630500	633332	636168	647168	656000	664832		0.0	22.0
			3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz			
			21.04	20.91	20.50	20.19	21.87	21.40			
10 MHz	1	1	630334	633332	636666	647000	656000	665000		0.0	22.0
			3455.01 MHz	3499.98 MHz	3549.99 MHz	3705 MHz	3840 MHz	3975 MHz			
			20.97	20.73	20.25	20.08	21.72	21.30			

8.2. PEAK TO AVERAGE RATIO

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to a CMW500 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

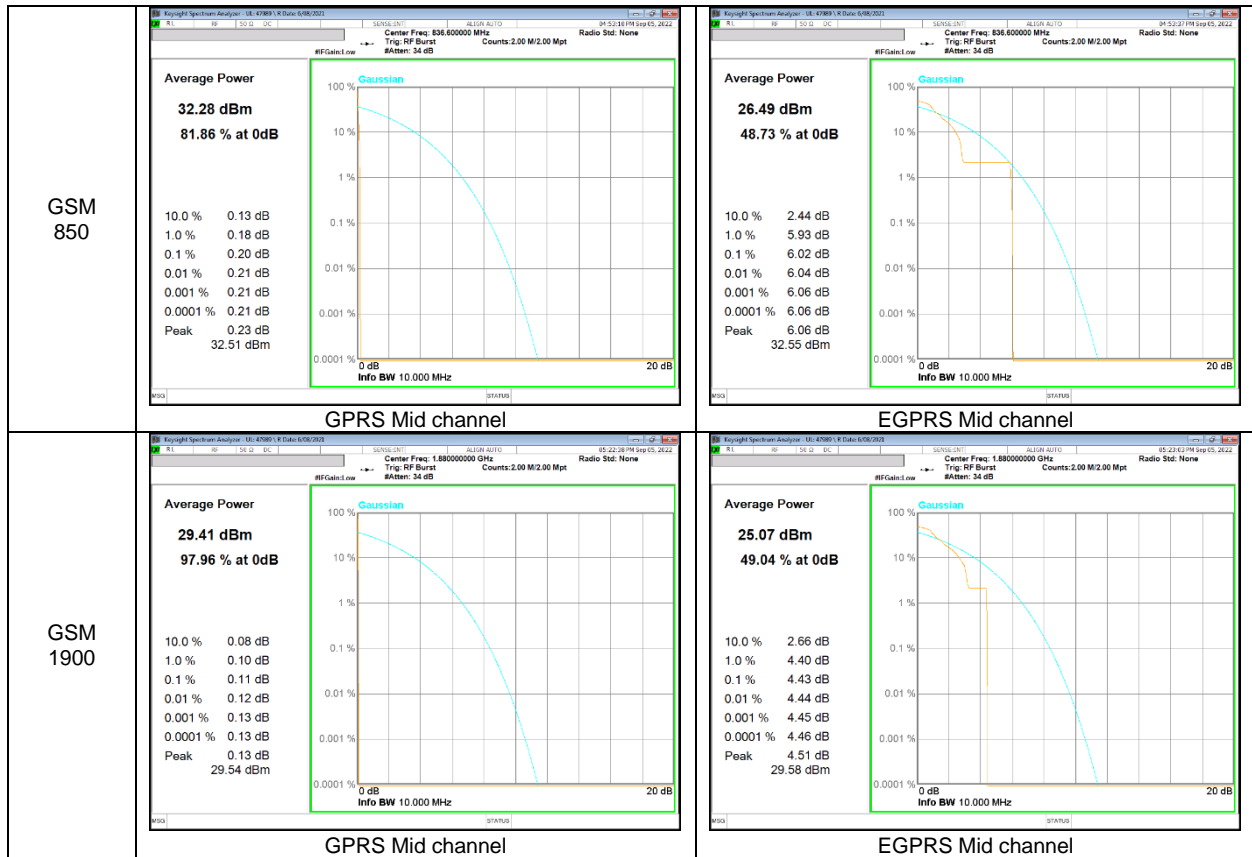
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

RESULTS

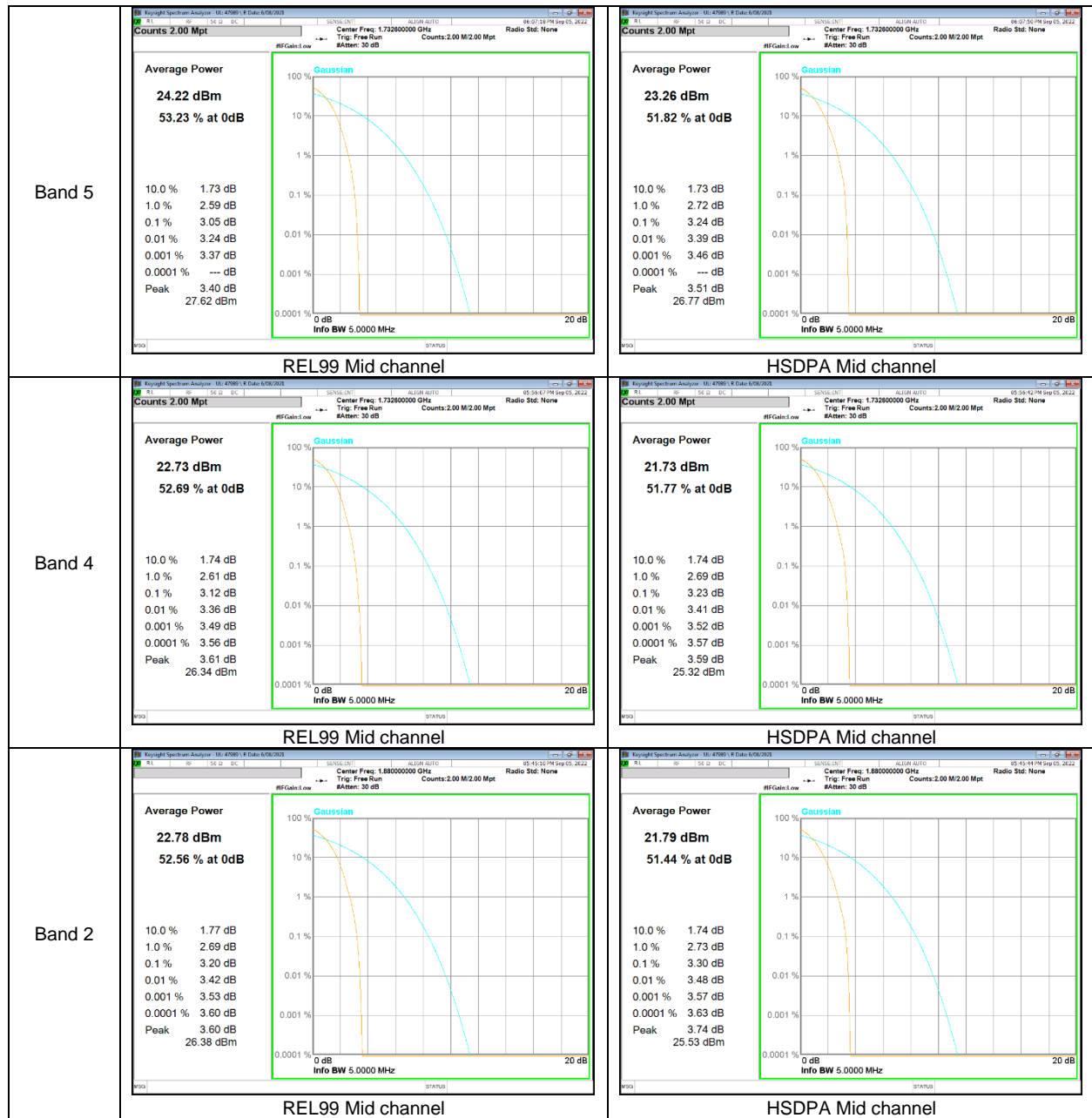
See the following pages.

8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

GSM



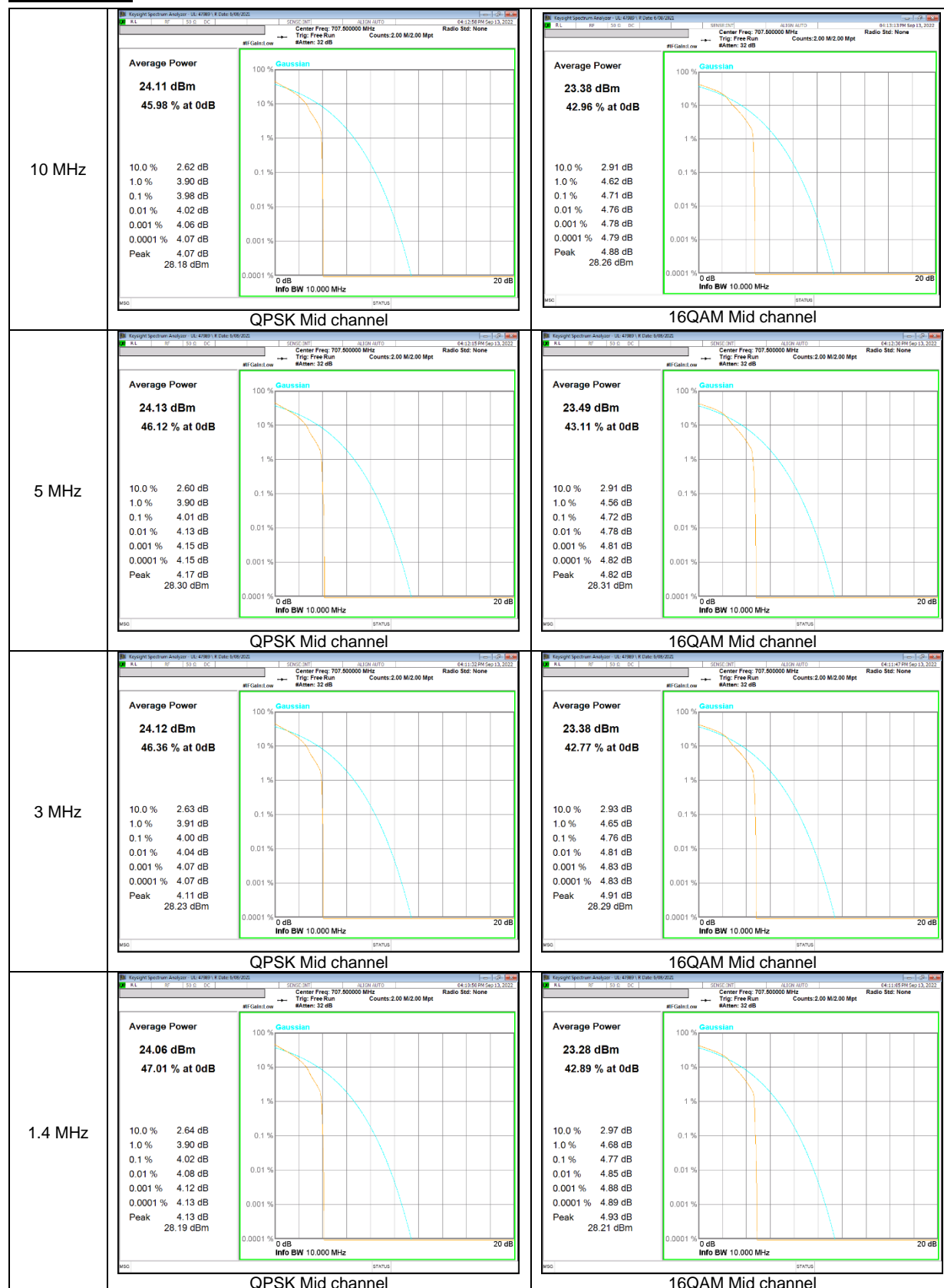
WCDMA



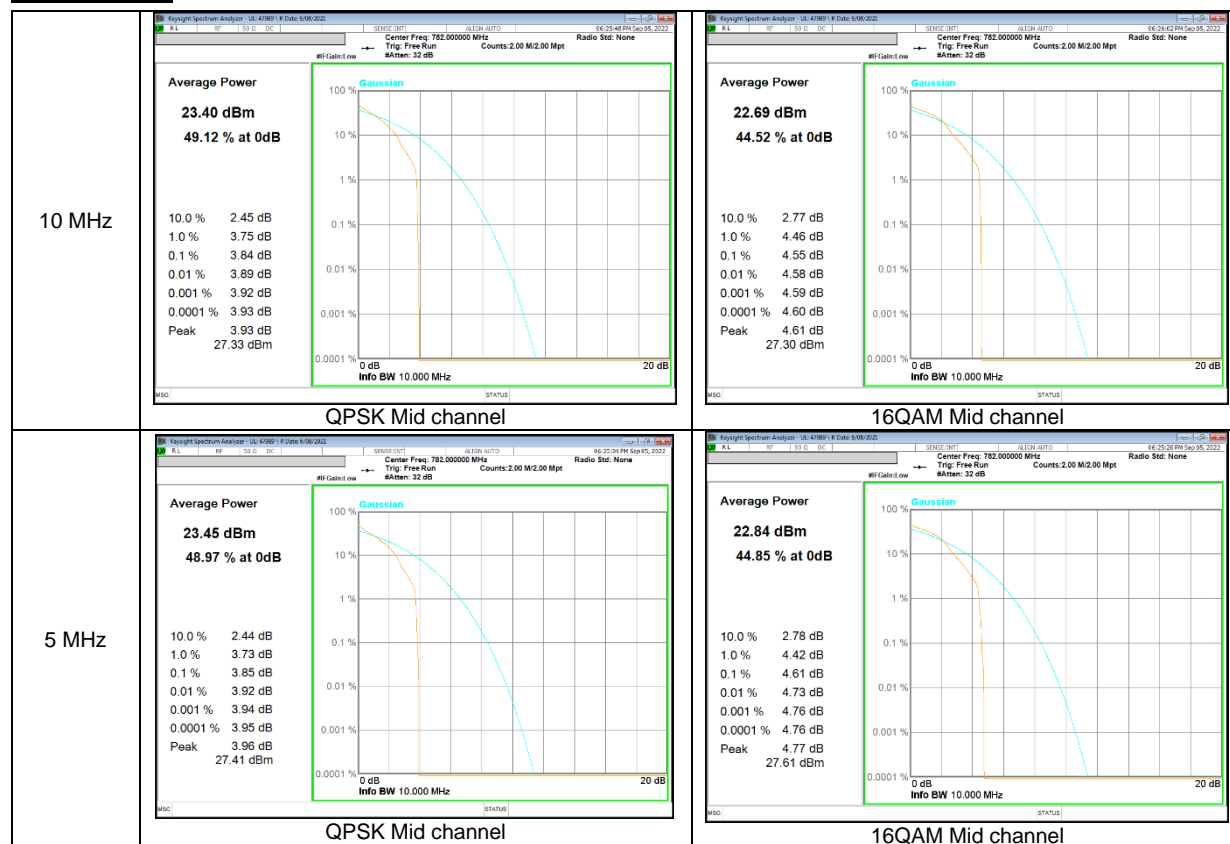
LTE Band 5



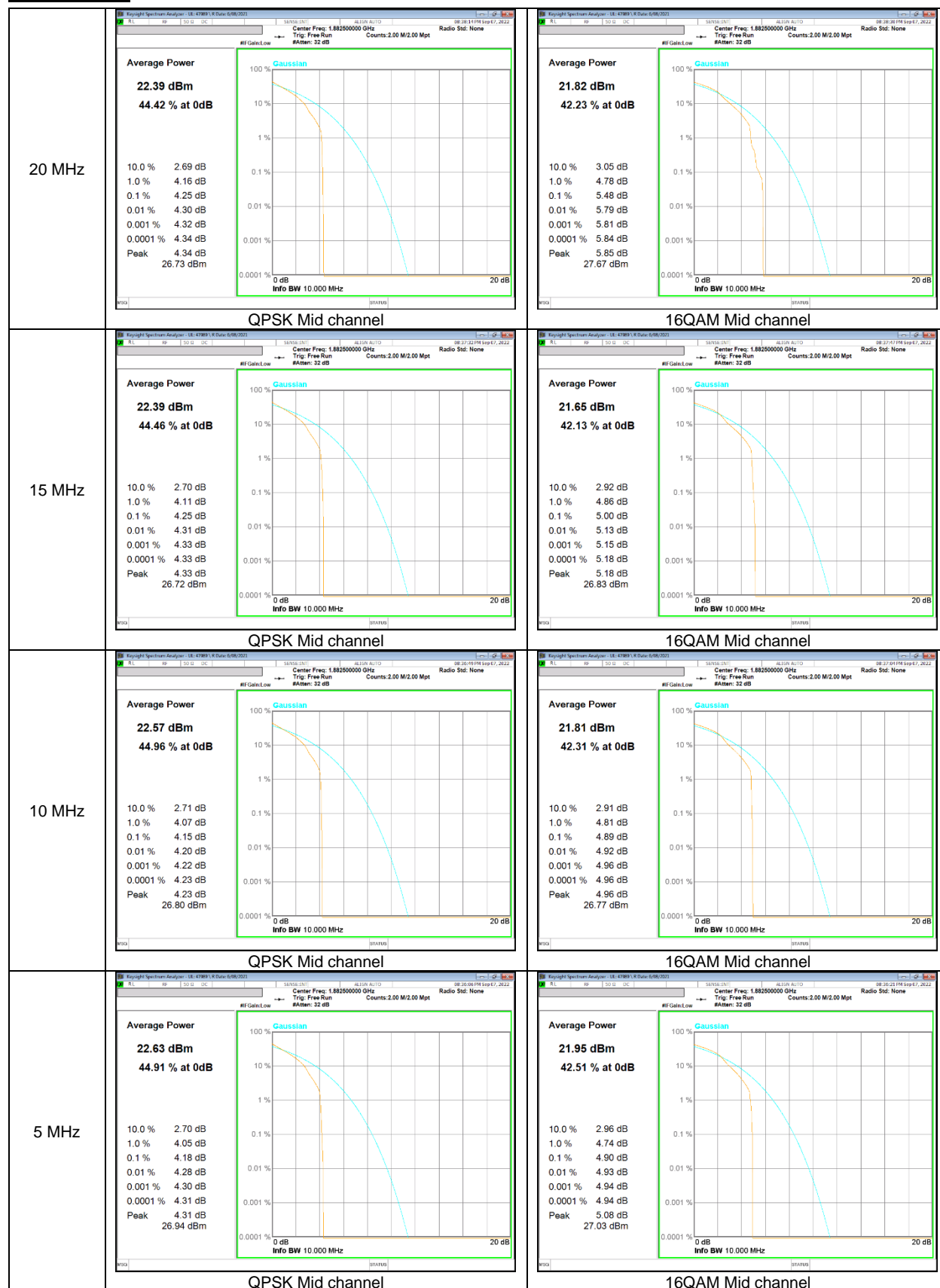
LTE Band 12

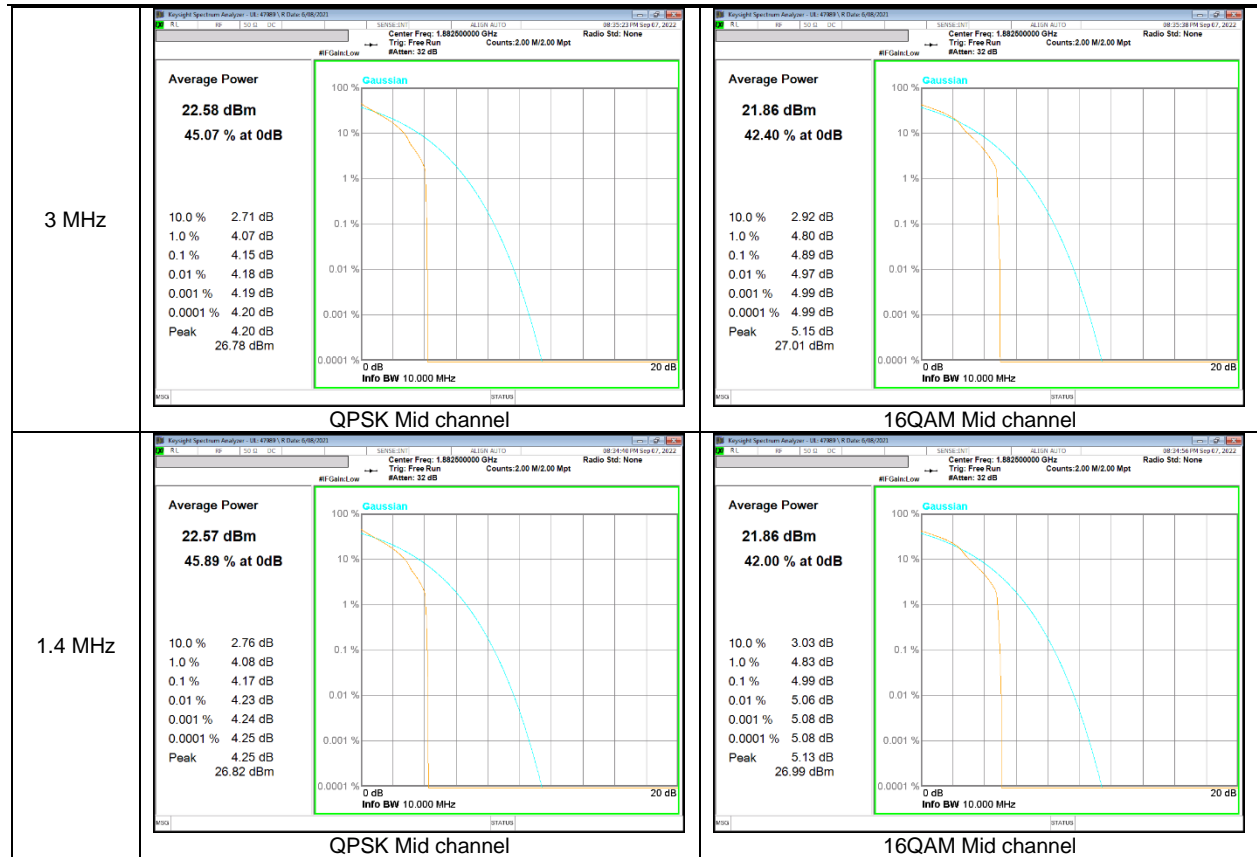


LTE Band 13

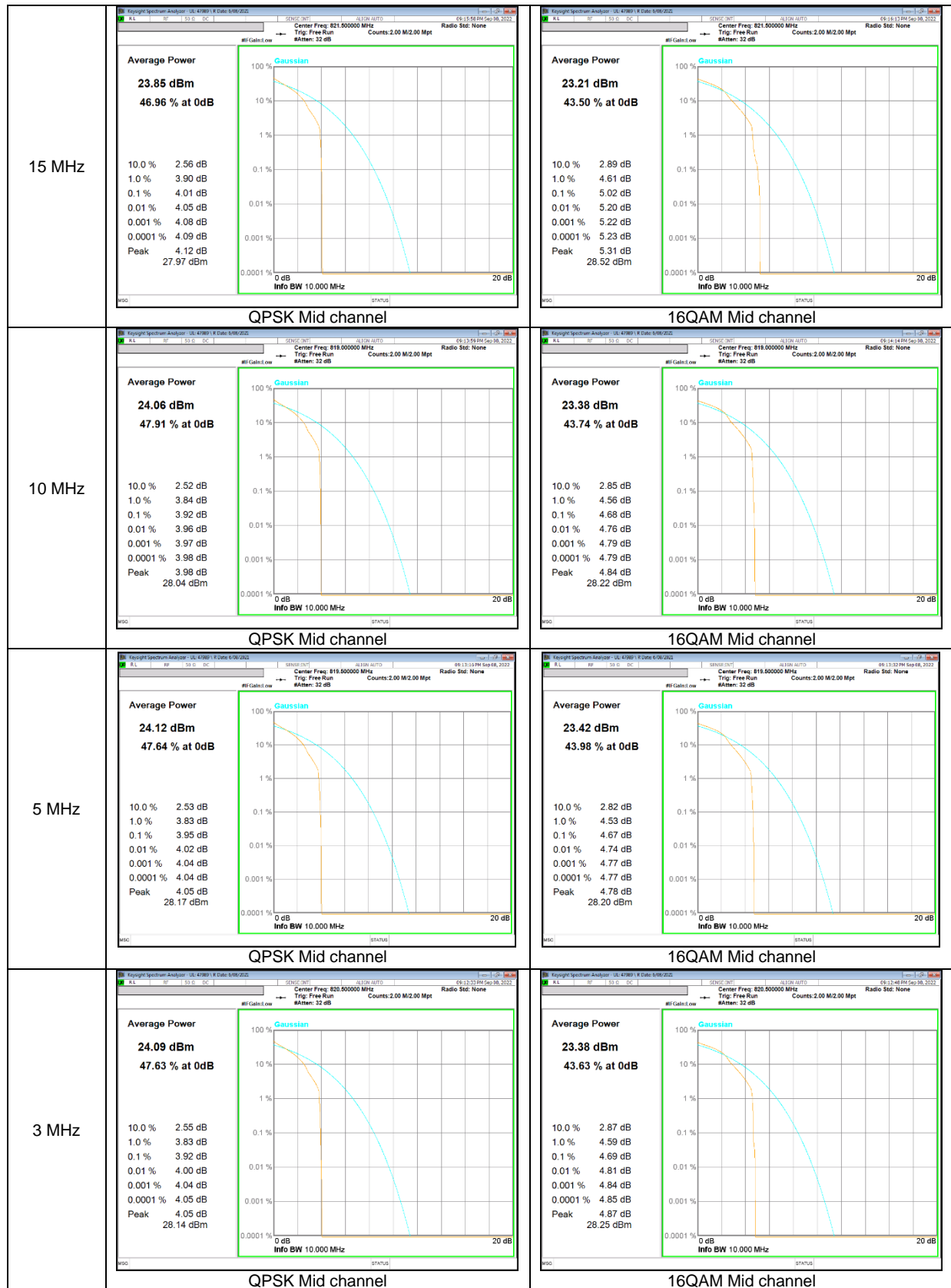


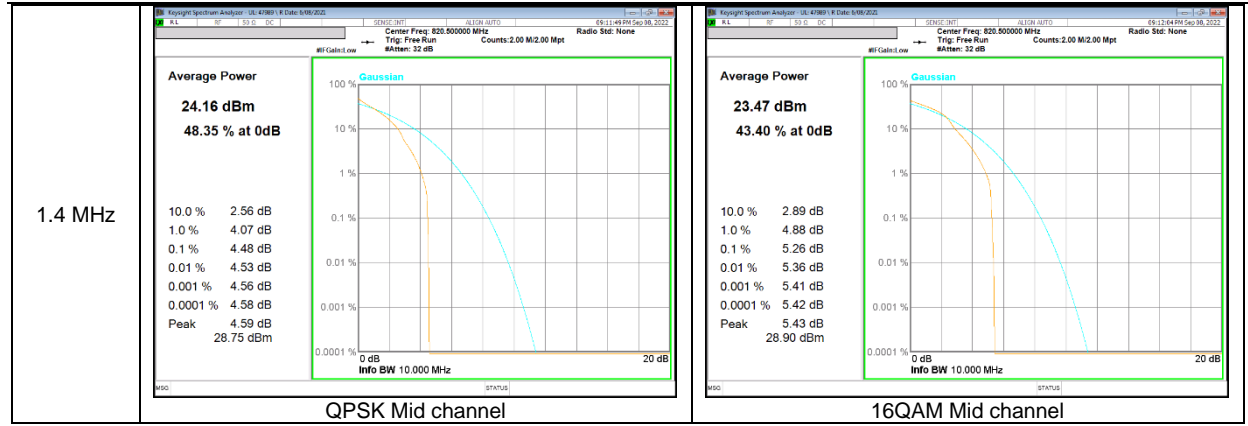
LTE Band 25



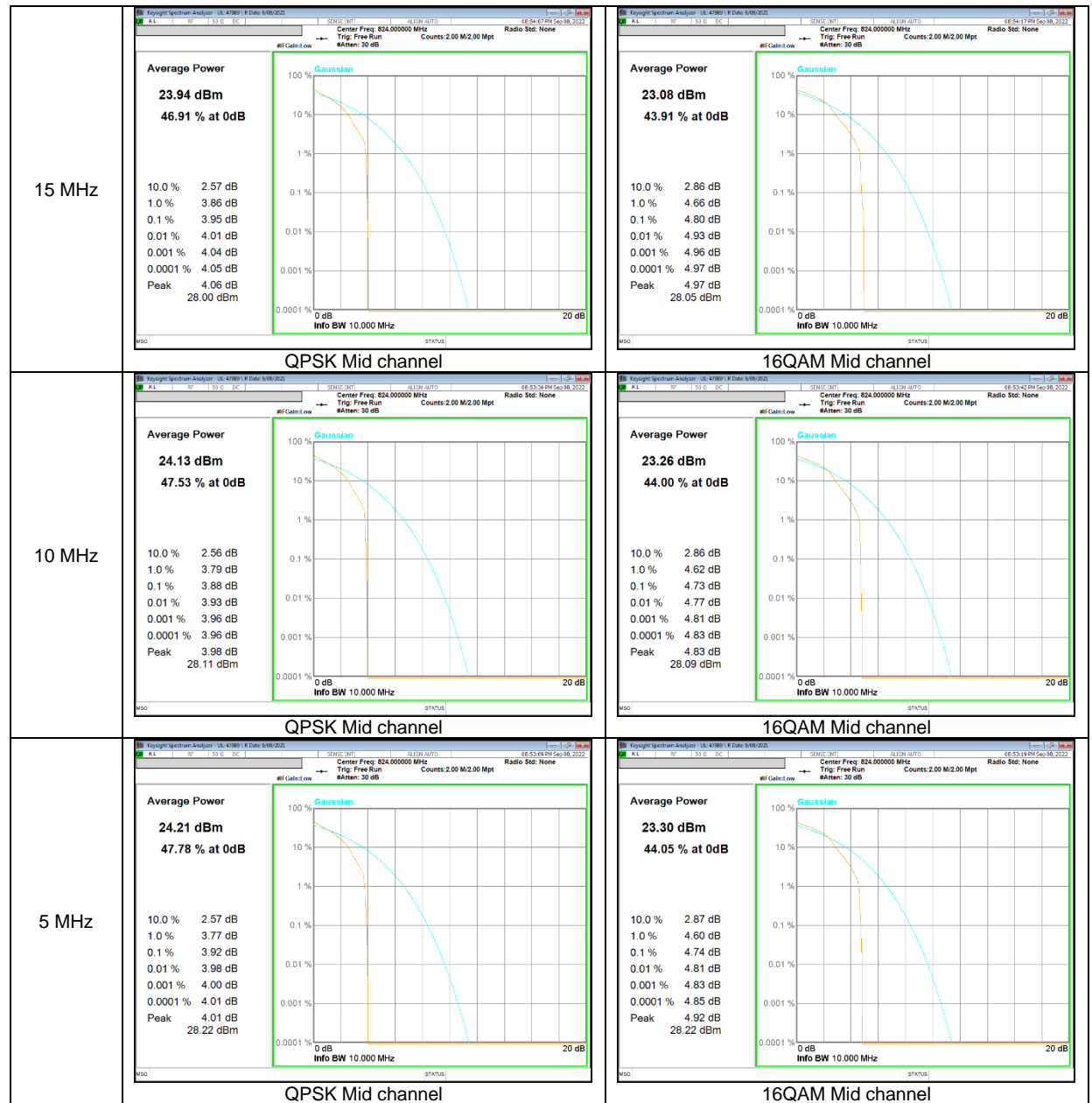


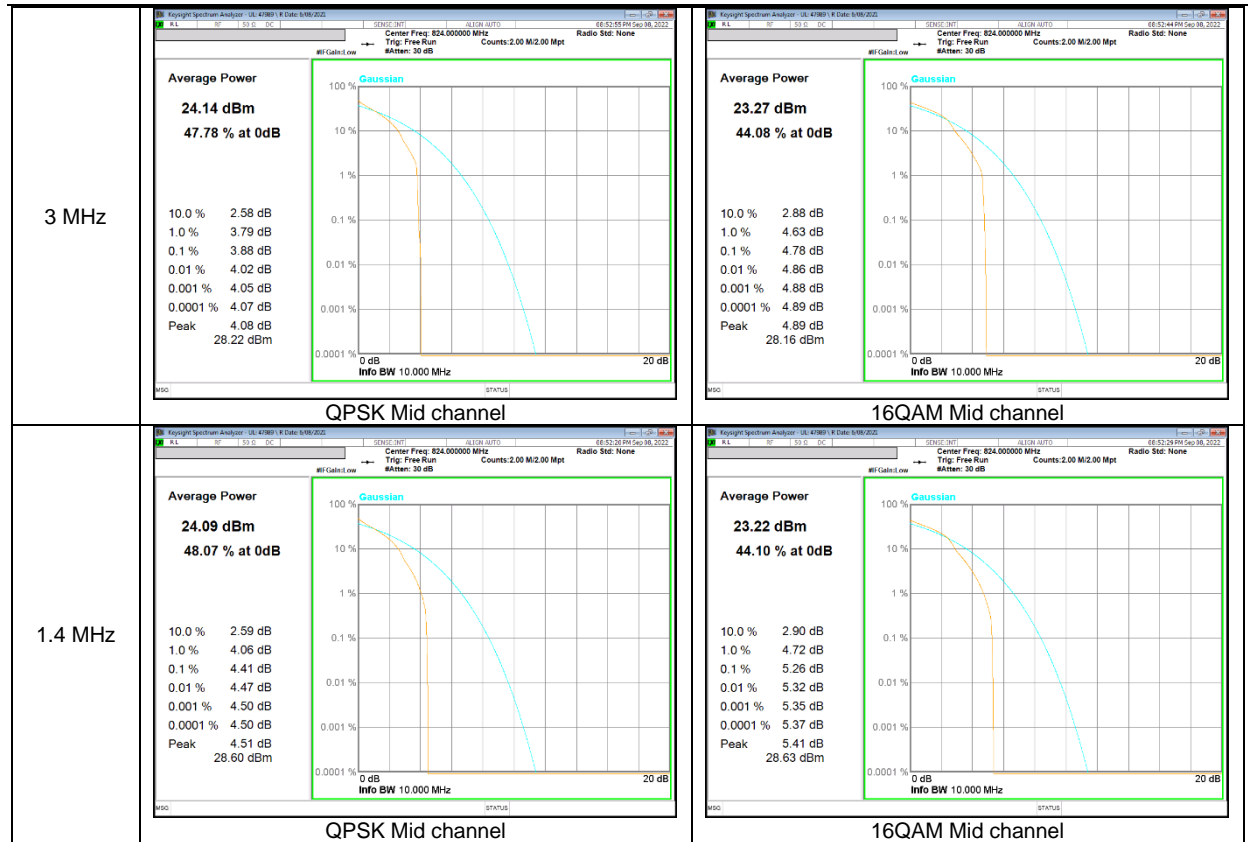
LTE Band 26 (Part 90)



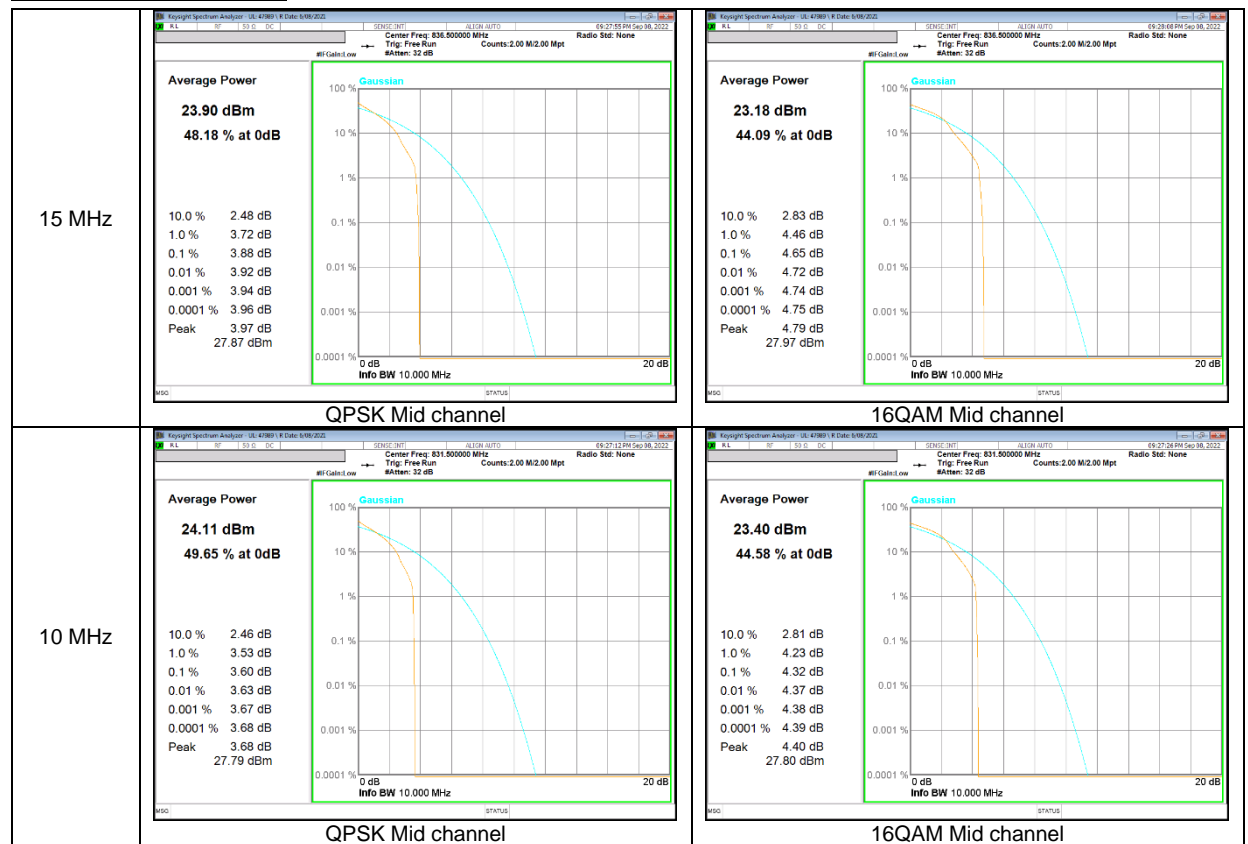


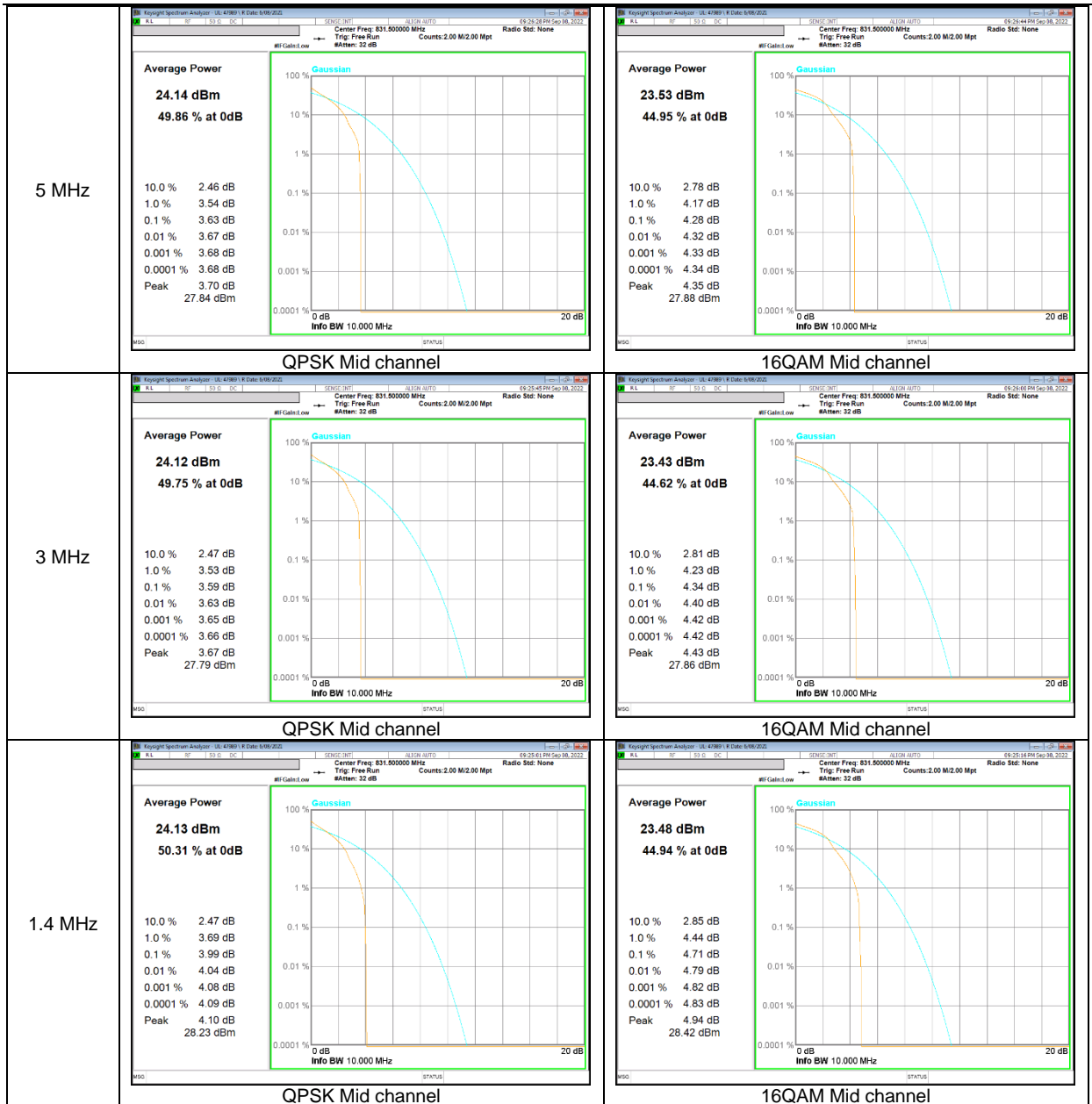
LTE Band 26 (Straddle)



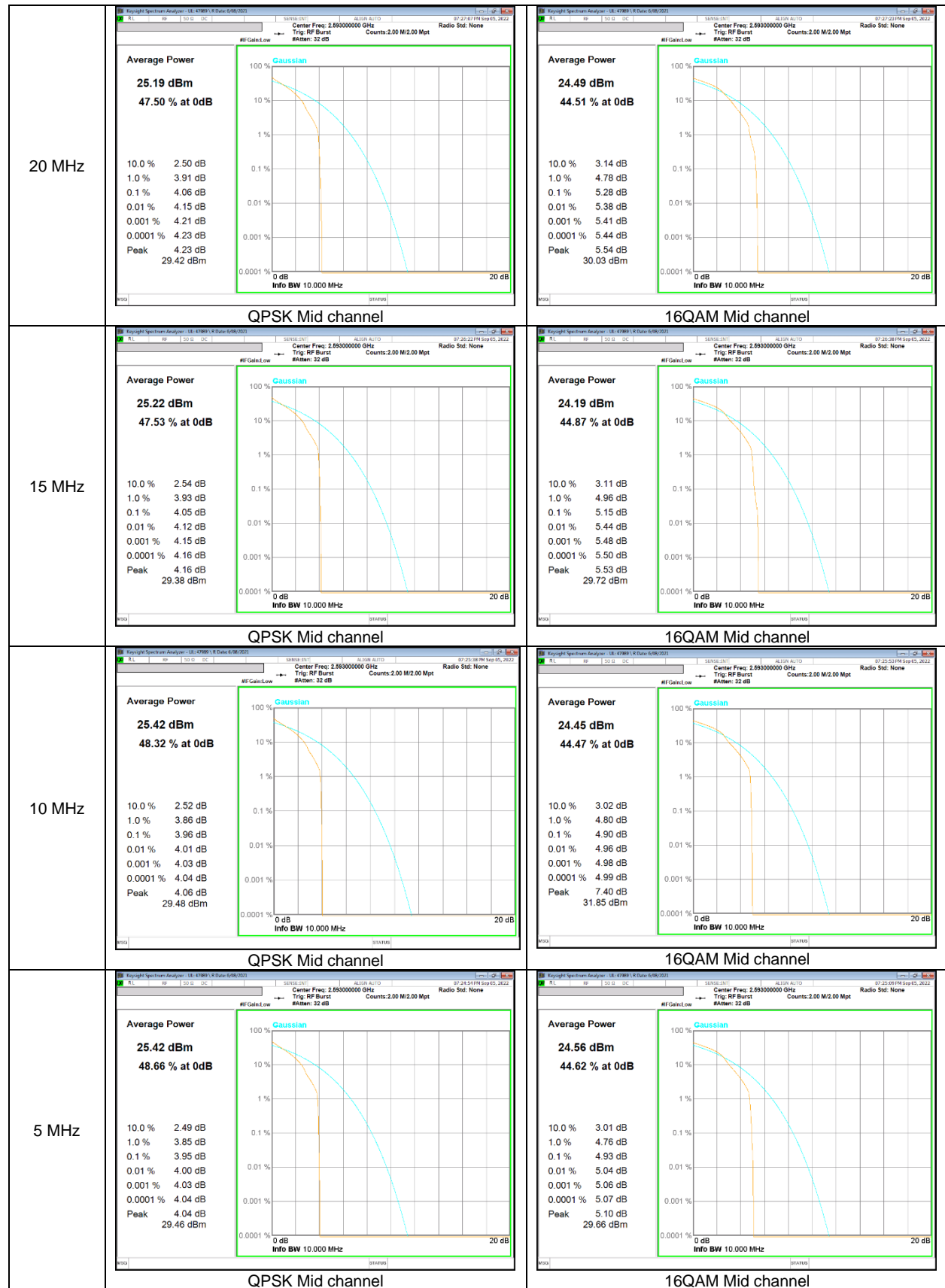


LTE Band 26 (Part 22)

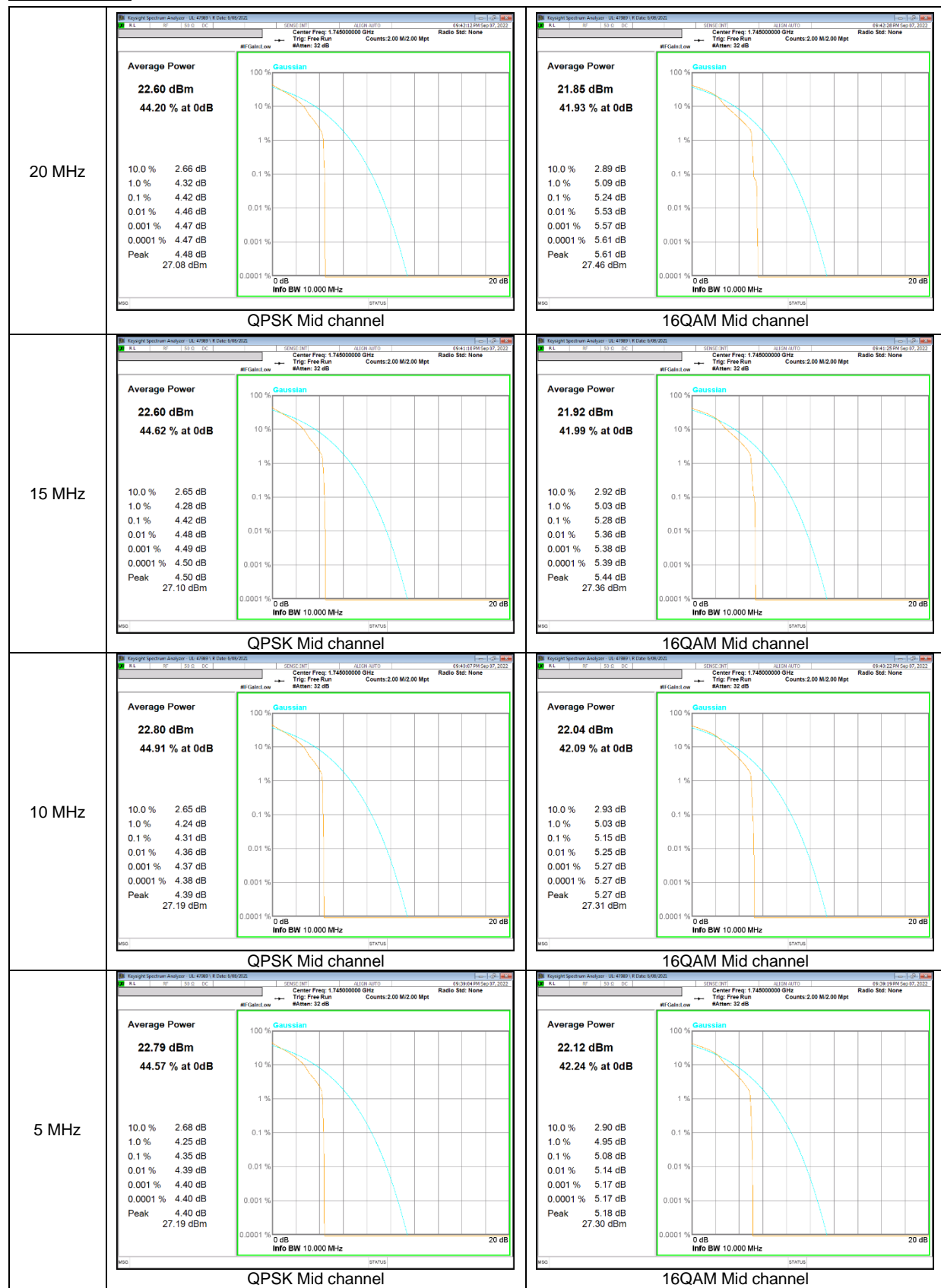


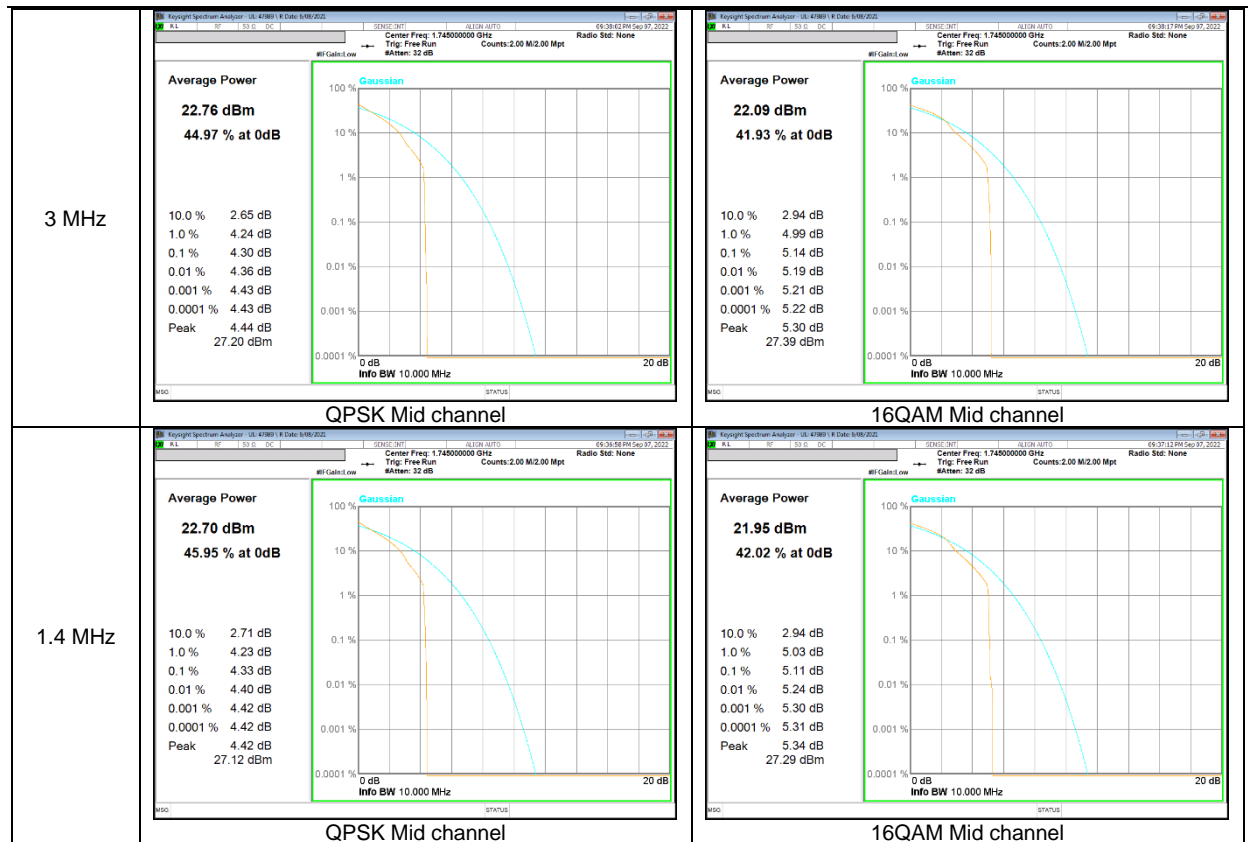


LTE Band 41(PC2)



LTE Band 66





NR Band n5 CP-OFDM

