



# CERTIFICATION TEST REPORT

**Report Number.** : 4790541052-E2V6

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

**Model** : SM-S918B/DS, SM-S918B

**FCC ID** : A3LSMS918B

**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,O,Q  
FCC CFR47 PART 90 SUBPART S

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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-S918B/DS, SM-S918B

**SERIAL NUMBER:** R3CT7081TXY, R3CT90EYZMN (CONDUCTED);  
R3CT7081XXP, R3CT90EYSSW , R3CT90EYSXY, R3CT90WSNDJ (RADIATED);

**DATE TESTED:** 2022-09-05 - 2022-11-09;

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

This report covers the Samsung models SM-S918B/DS and SM-S918B. These models are identical in hardware except SM-S918B has single SIM tray. With some pre-scan, model SM-S918B/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	<b>33.37</b>	<b>2172.70</b>	<b>29.54</b>	<b>899.50</b>
		EGPRS	27.45	555.90	24.19	262.42
GSM1900	1850~1910	GPRS	<b>29.80</b>	<b>954.99</b>	<b>31.05</b>	<b>1273.50</b>
		EGPRS	26.17	414.00	27.58	572.80

#### 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	<b>24.39</b>	<b>274.79</b>	<b>20.02</b>	<b>100.46</b>
		HSDPA	23.39	218.27	19.01	79.62
Band 4	1710~1755	Rel. 99	<b>23.08</b>	<b>203.24</b>	<b>24.08</b>	<b>255.86</b>
		HSDPA	22.11	162.55	23.36	216.77
Band 2	1850~1910	Rel. 99	<b>23.17</b>	<b>207.49</b>	<b>25.18</b>	<b>329.61</b>
		HSDPA	22.15	164.06	24.32	270.40

**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	24.62	289.73	<b>23.56</b>	<b>226.99</b>
			16QAM	23.98	250.03	22.28	169.04
			64QAM	22.79	190.11		
			256QAM	19.78	95.06		
	826.5 - 846.5	5	QPSK	24.72	296.48	23.41	219.28
			16QAM	23.89	244.91	22.16	164.44
			64QAM	22.91	195.43		
			256QAM	19.79	95.28		
	825.5 - 847.5	3	QPSK	<b>24.78</b>	<b>300.61</b>	23.27	212.32
			16QAM	23.93	247.17	22.16	164.44
			64QAM	22.89	194.54		
			256QAM	19.89	97.50		
	824.7 - 848.3	1.4	QPSK	24.68	293.76	23.18	207.97
			16QAM	23.85	242.66	21.92	155.60
			64QAM	22.80	190.55		
			256QAM	19.84	96.38		

**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	23.24	210.86	18.46	70.15
			16QAM	22.52	178.65	17.16	52.00
			64QAM	21.53	142.23		
			256QAM	18.43	69.66		
	701.5 - 713.5	5	QPSK	<b>23.47</b>	<b>222.33</b>	<b>18.60</b>	<b>72.44</b>
			16QAM	22.58	181.13	17.39	54.83
			64QAM	21.54	142.56		
			256QAM	18.57	71.94		
	700.5 - 714.5	3	QPSK	23.45	221.31	18.37	68.71
			16QAM	22.64	183.65	17.19	52.36
			64QAM	21.78	150.66		
			256QAM	18.57	71.94		
	699.7 - 715.3	1.4	QPSK	23.46	221.82	18.20	66.07
			16QAM	22.63	183.23	17.09	51.17
			64QAM	21.63	145.55		
			256QAM	18.68	73.79		

**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	<b>23.45</b>	<b>221.31</b>	19.81	95.72
			16QAM	22.55	179.89	18.70	74.13
			64QAM	21.56	143.22		
			256QAM	18.58	72.11		
	779.5 - 784.5	5	QPSK	<b>23.45</b>	<b>221.31</b>	<b>20.92</b>	<b>123.59</b>
			16QAM	22.92	195.88	19.59	90.99
			64QAM	21.64	145.88		
			256QAM	18.61	72.61		

**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	22.63	183.23	25.10	323.59
			16QAM	21.89	154.53	24.30	269.15
			64QAM	20.80	120.23		
			256QAM	17.86	61.09		
	1857.5 - 1907.5	15	QPSK	22.57	180.72	25.39	345.94
			16QAM	21.95	156.68	24.46	279.25
			64QAM	20.67	116.68		
			256QAM	17.70	58.88		
	1855 - 1910	10	QPSK	22.76	188.80	25.52	356.45
			16QAM	22.14	163.68	24.76	299.23
			64QAM	20.86	121.90		
			256QAM	17.84	60.81		
	1852.5 - 1912.5	5	QPSK	22.77	189.23	<b>25.58</b>	<b>361.41</b>
			16QAM	22.29	169.43	24.75	298.54
			64QAM	20.97	125.03		
			256QAM	17.91	61.80		
	1851.5 - 1913.5	3	QPSK	<b>22.83</b>	<b>191.87</b>	25.47	352.37
			16QAM	22.14	163.68	24.59	287.74
			64QAM	21.05	127.35		
			256QAM	17.85	60.95		
1850.7 - 1914.3	1.4	QPSK	22.79	190.11	25.37	344.35	
		16QAM	22.17	164.82	24.67	293.09	
		64QAM	20.94	124.17			
		256QAM	17.82	60.53			

**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	<b>24.37</b>	<b>273.53</b>	22.60	181.97
			16QAM	23.42	219.79	21.69	147.57
			64QAM	22.54	179.47		
			256QAM	19.48	88.72		
	819	10	QPSK	24.20	263.03	22.59	181.55
			16QAM	23.36	216.77	21.74	149.28
			64QAM	22.49	177.42		
			256QAM	19.37	86.50		
	816.5 - 821.5	5	QPSK	24.26	266.69	<b>22.92</b>	<b>195.88</b>
			16QAM	23.32	214.78	21.54	142.56
			64QAM	22.32	170.61		
			256QAM	19.36	86.30		
	815.5 - 822.5	3	QPSK	24.23	264.85	22.89	194.54
			16QAM	23.39	218.27	21.93	155.96
			64QAM	22.49	177.42		
			256QAM	19.35	86.10		
	814.7 - 823.3	1.4	QPSK	24.21	263.63	22.52	178.65
			16QAM	23.32	214.78	21.63	145.55
			64QAM	22.30	169.82		
			256QAM	19.32	85.51		

**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	24.03	252.93	21.62	145.21
			16QAM	23.21	209.41	20.64	115.88
			64QAM	22.14	163.68		
			256QAM	19.21	83.37		
	829 ~ 844	10	QPSK	24.08	255.86	21.90	154.88
			16QAM	23.25	211.35	20.99	125.60
			64QAM	22.90	194.98		
			256QAM	19.24	83.95		
	826.5 ~ 846.5	5	QPSK	24.08	255.86	21.97	157.40
			16QAM	23.29	213.30	20.95	124.45
			64QAM	22.25	167.88		
			256QAM	19.21	83.37		
	825.5 ~ 847.5	3	QPSK	<b>24.10</b>	<b>257.04</b>	<b>22.87</b>	<b>193.64</b>
			16QAM	23.29	213.30	21.76	149.97
			64QAM	22.30	169.82		
			256QAM	19.27	84.53		
824.7 ~ 848.3	1.4	QPSK	24.09	256.45	21.75	149.62	
		16QAM	23.29	213.30	20.67	116.68	
		64QAM	22.25	167.88			
		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	24.10	257.04	22.54	179.47
			16QAM	23.39	218.27	21.53	142.23
			64QAM	22.32	170.61		
			256QAM	19.26	84.33		
		10	QPSK	<b>24.25</b>	<b>266.07</b>	<b>23.37</b>	<b>217.27</b>
			16QAM	23.62	230.14	22.45	175.79
			64QAM	22.46	176.20		
			256QAM	19.39	86.90		
		5	QPSK	24.24	265.46	23.13	205.59
			16QAM	23.79	239.33	21.94	156.31
			64QAM	22.36	172.19		
			256QAM	19.45	88.10		
		3	QPSK	24.24	265.46	23.10	204.17
			16QAM	23.62	230.14	22.08	161.44
			64QAM	22.45	175.79		
			256QAM	19.37	86.50		
		1.4	QPSK	24.20	263.03	22.92	195.88
			16QAM	23.47	222.33	21.34	136.14
			64QAM	22.34	171.40		
			256QAM	19.35	86.10		

**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	25.23	333.43	24.15	260.02
			16QAM	24.61	289.07	23.40	218.78
			64QAM	23.56	226.99		
			256QAM	20.53	112.98		
	2503.5 - 2682.5	15	QPSK	25.24	334.20	24.29	268.53
			16QAM	24.53	283.79	23.56	226.99
			64QAM	23.38	217.77		
			256QAM	20.30	107.15		
	2501 - 2685	10	QPSK	25.41	347.54	24.48	280.54
			16QAM	24.80	302.00	23.70	234.42
			64QAM	23.60	229.09		
			256QAM	20.48	111.69		
	2498.5 - 2687.5	5	QPSK	<b>25.45</b>	<b>350.75</b>	<b>24.63</b>	<b>290.40</b>
			16QAM	24.88	307.61	23.91	246.04
			64QAM	23.55	226.46		
			256QAM	20.49	111.94		

**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	22.64	183.65	23.51	224.39
			16QAM	21.83	152.41	22.58	181.13
			64QAM	20.91	123.31		
			256QAM	17.73	59.29		
	1717.5 - 1772.5	15	QPSK	22.62	182.81	23.46	221.82
			16QAM	21.76	149.97	22.47	176.60
			64QAM	20.71	117.76		
			256QAM	17.69	58.75		
	1715 - 1775	10	QPSK	22.81	190.99	23.45	221.31
			16QAM	21.96	157.04	22.56	180.30
			64QAM	20.94	124.17		
			256QAM	17.85	60.95		
	1712.5 - 1777.5	5	QPSK	22.83	191.87	<b>23.53</b>	<b>225.42</b>
			16QAM	22.04	159.96	22.53	179.06
			64QAM	20.88	122.46		
			256QAM	17.80	60.26		
	1711.5 - 1778.5	3	QPSK	<b>22.85</b>	<b>192.75</b>	23.47	222.33
			16QAM	22.04	159.96	22.36	172.19
			64QAM	20.94	124.17		
			256QAM	17.86	61.09		
1710.7 - 1779.3	1.4	QPSK	22.73	187.50	23.35	216.27	
		16QAM	22.01	158.85	22.42	174.58	
		64QAM	20.89	122.74			
		256QAM	17.81	60.39			

**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	24.76	299.23			
				QPSK	24.85	305.49	21.44	139.32	
				16QAM	23.86	243.22	20.23	105.44	
				64QAM	22.53	179.06			
				256QAM	19.89	97.50			
	831.5 - 841.5	15	DFT-s OFDM	CP-OFDM	QPSK	23.34	215.77		
					$\pi/2$ BPSK	24.73	297.17		
					QPSK	24.84	304.79	<b>21.92</b>	<b>155.60</b>
					16QAM	23.74	236.59	21.03	126.77
					64QAM	22.43	174.98		
	829 - 844	10	DFT-s OFDM	CP-OFDM	256QAM	19.80	95.50		
					QPSK	23.25	211.35		
					$\pi/2$ BPSK	24.58	287.08		
					QPSK	24.64	291.07	21.86	153.46
					16QAM	23.58	228.03	20.80	120.23
	826.5 - 846.5	5	DFT-s OFDM	CP-OFDM	64QAM	22.30	169.82		
					256QAM	19.61	91.41		
					QPSK	23.01	199.99		
					$\pi/2$ BPSK	24.83	304.09		
					QPSK	<b>24.89</b>	<b>308.32</b>	21.90	154.88
826.5 - 846.5	5	DFT-s OFDM	CP-OFDM	16QAM	23.81	240.44	20.52	112.72	
				64QAM	22.45	175.79			
				256QAM	19.88	97.27			
826.5 - 846.5	5	DFT-s OFDM	CP-OFDM	QPSK	23.27	212.32			

**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	22.71	186.64			
				QPSK	22.77	189.23	24.60	288.40	
				16QAM	21.68	147.23	23.79	239.33	
				64QAM	20.31	107.40			
				256QAM	17.64	58.08			
	1857.5 - 1907.5	15	DFT-s OFDM	CP-OFDM	QPSK	21.13	129.72		
					$\pi/2$ BPSK	22.83	191.87		
					QPSK	<b>22.87</b>	<b>193.64</b>	24.88	307.61
					16QAM	21.79	151.01	24.04	253.51
					64QAM	20.48	111.69		
	1855 - 1910	10	DFT-s OFDM	CP-OFDM	256QAM	17.65	58.21		
					QPSK	21.24	133.05		
					$\pi/2$ BPSK	22.69	185.78		
					QPSK	22.75	188.36	24.42	276.69
					16QAM	21.70	147.91	23.60	229.09
	1852.5 - 1912.5	5	DFT-s OFDM	CP-OFDM	64QAM	20.41	109.90		
					256QAM	17.54	56.75		
					QPSK	21.08	128.23		
					$\pi/2$ BPSK	22.71	186.64		
					QPSK	22.80	190.55	<b>24.92</b>	<b>310.46</b>
			DFT-s OFDM	16QAM	21.70	147.91	23.73	236.05	
				64QAM	20.39	109.40			
				256QAM	17.63	57.94			
				QPSK	21.07	127.94			

**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	23.52	224.80	20.16	103.75
				QPSK	23.58	228.08		
				16QAM	22.44	175.47	20.07	101.62
				64QAM	20.76	119.06		
				256QAM	18.82	76.29		
	CP-OFDM	QPSK	21.82	152.16				
	2541.0 - 2645.0	90	DFT-s OFDM	$\pi/2$ BPSK	23.54	226.00	21.19	131.52
				QPSK	23.51	224.56		
				16QAM	22.43	175.12	20.05	101.16
				64QAM	20.74	118.56		
				256QAM	18.82	76.15		
	CP-OFDM	QPSK	21.86	153.52				
	2536.0 - 2650.0	80	DFT-s OFDM	$\pi/2$ BPSK	23.45	221.50	21.28	134.28
				QPSK	23.46	221.57		
				16QAM	22.27	168.59	20.25	105.93
				64QAM	20.64	115.96		
				256QAM	18.85	76.73		
	CP-OFDM	QPSK	21.80	151.32				
	2531.0 - 2655.0	70	DFT-s OFDM	$\pi/2$ BPSK	23.84	242.10	20.63	115.61
				QPSK	23.84	242.10		
				16QAM	22.93	196.34	19.73	93.97
				64QAM	21.44	139.32		
				256QAM	19.31	85.31		
	CP-OFDM	QPSK	22.47	176.60				
	2526.0 - 2660.0	60	DFT-s OFDM	$\pi/2$ BPSK	23.47	222.37	21.40	138.04
				QPSK	23.48	222.96		
				16QAM	22.20	166.03	20.46	111.17
				64QAM	20.93	123.98		
256QAM				18.72	74.55			
CP-OFDM	QPSK	22.01	158.94					
2521.0 - 2665.0	50	DFT-s OFDM	$\pi/2$ BPSK	23.47	222.15	<b>21.44</b>	<b>139.32</b>	
			QPSK	23.57	227.35			
			16QAM	22.42	174.69	20.39	109.40	
			64QAM	20.94	124.23			
			256QAM	18.94	78.32			
CP-OFDM	QPSK	21.99	158.20					

n41	2511.0 - 2675.0	40	DFT-s OFDM	$\pi/2$ BPSK	23.75	237.38	21.39	137.72	
				QPSK	23.78	239.04			
				16QAM	22.49	177.59	20.49	111.94	
				64QAM	21.03	126.73			
				256QAM	18.88	77.19			
	2511.0 - 2675.0	30	DFT-s OFDM	CP-OFDM	QPSK	21.94	156.38		
					$\pi/2$ BPSK	23.71	234.91	20.97	125.03
					QPSK	23.87	243.61		
					16QAM	22.54	179.32	20.05	101.16
					64QAM	21.10	128.71		
	2506.0 - 2680.0	20	DFT-s OFDM	CP-OFDM	256QAM	19.17	82.53		
					$\pi/2$ BPSK	<b>24.15</b>	<b>259.73</b>	20.72	118.03
					QPSK	24.09	256.73		
					16QAM	23.14	205.92	19.87	97.05
					64QAM	21.62	145.27		
	2503.5 - 2682.5	15	DFT-s OFDM	CP-OFDM	256QAM	19.44	87.85		
					$\pi/2$ BPSK	23.75	237.38	20.68	116.95
					QPSK	23.78	239.04		
					16QAM	22.49	177.59	19.54	89.95
					64QAM	21.03	126.73		
2501.0 - 2685.0	10	DFT-s OFDM	CP-OFDM	256QAM	18.88	77.19			
				$\pi/2$ BPSK	23.71	234.91	20.53	112.98	
				QPSK	23.87	243.61			
				16QAM	22.54	179.32	19.42	87.50	
				64QAM	21.10	128.71			
				256QAM	19.17	82.53			
				QPSK	22.04	159.87			

**NR Band n41(SRS1)**

FCC Part 27						
Band	Frequency Range	BandWidth	Conducted		Radiated	
	[MHz]	[MHz]	Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.0 - 2640.0	100	18.36	68.55		
	2541.0 - 2645.0	90	18.45	69.98		
	2536.0 - 2650.0	80	18.50	70.79		
	2531.0 - 2655.0	70	18.52	71.12		
	2526.0 - 2660.0	60	18.44	69.82		
	2521.0 - 2665.0	50	18.50	70.79		
	2516.0 - 2670.0	40	18.63	72.95		
	2511.0 - 2675.0	30	18.59	72.28		
	2506.0 - 2680.0	20	18.45	69.98		
	2503.5 - 2682.5	15	18.97	78.89		
	2501.0 - 2685.0	10	<b>18.97</b>	<b>78.89</b>	<b>18.37</b>	<b>68.71</b>

**NR Band n41(SRS2)**

FCC Part 27						
Band	Frequency Range	BandWidth	Conducted		Radiated	
	[MHz]	[MHz]	Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.0 - 2640.0	100	19.03	79.98		
	2541.0 - 2645.0	90	19.18	82.79		
	2536.0 - 2650.0	80	19.20	83.18		
	2531.0 - 2655.0	70	19.28	84.72		
	2526.0 - 2660.0	60	19.42	87.50		
	2521.0 - 2665.0	50	19.55	90.16		
	2516.0 - 2670.0	40	19.67	92.68		
	2511.0 - 2675.0	30	<b>19.71</b>	<b>93.54</b>	<b>13.89</b>	<b>24.49</b>
	2506.0 - 2680.0	20	19.04	80.17		
	2503.5 - 2682.5	15	19.24	83.95		
	2501.0 - 2685.0	10	19.20	83.18		

**NR Band n41(SRS3)**

FCC Part 27						
Band	Frequency Range	BandWidth	Conducted		Radiated	
	[MHz]	[MHz]	Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
n41	2546.0 - 2640.0	100	17.92	61.94		
	2541.0 - 2645.0	90	17.85	60.95		
	2536.0 - 2650.0	80	17.83	60.67		
	2531.0 - 2655.0	70	17.81	60.39		
	2526.0 - 2660.0	60	17.80	60.26		
	2521.0 - 2665.0	50	17.83	60.67		
	2516.0 - 2670.0	40	<b>18.11</b>	<b>64.71</b>	<b>14.78</b>	<b>30.06</b>
	2511.0 - 2675.0	30	17.96	62.52		
	2506.0 - 2680.0	20	17.88	61.38		
	2503.5 - 2682.5	15	17.77	59.84		
	2501.0 - 2685.0	10	17.79	60.12		

**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	22.94	196.79			
				QPSK	22.95	197.24	<b>23.50</b>	<b>223.87</b>	
				16QAM	21.87	153.82	22.55	179.89	
				64QAM	20.52	112.72			
				256QAM	17.74	59.43			
	1717.5 - 1772.5	15	DFT-s OFDM	$\pi/2$ BPSK	22.99	199.07			
				QPSK	<b>23.07</b>	<b>202.77</b>	23.24	210.86	
				16QAM	21.94	156.31	22.31	170.22	
				64QAM	20.66	116.41			
				256QAM	17.86	61.09			
	1715.0 - 1775.0	10	DFT-s OFDM	CP-OFDM	QPSK	21.34	136.14		
				$\pi/2$ BPSK	22.93	196.34			
				QPSK	22.94	196.79	22.87	193.64	
				16QAM	21.88	154.17	21.84	152.76	
				64QAM	20.60	114.82			
	1712.5 - 1777.5	5	DFT-s OFDM	256QAM	17.80	60.26			
				CP-OFDM	QPSK	21.30	134.90		
				$\pi/2$ BPSK	22.90	194.98			
				QPSK	22.95	197.24	23.13	205.59	
				16QAM	21.88	154.17	22.08	161.44	
			DFT-s OFDM	64QAM	20.59	114.55			
				256QAM	17.78	59.98			
				CP-OFDM	QPSK	21.29	134.59		

**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	23.67	232.81		
				QPSK	23.68	233.35		
				16QAM	22.77	189.23		
				64QAM	21.08	128.23		
				256QAM	18.77	75.34		
	CP-OFDM	QPSK	22.10	162.18				
	1717.5 - 1772.5	15	DFT-s OFDM	$\pi/2$ BPSK	23.61	229.61		
				QPSK	23.67	232.81		
				16QAM	22.53	179.06		
				64QAM	21.31	135.21		
				256QAM	18.76	75.16		
	CP-OFDM	QPSK	22.14	163.68				
	1715.0 - 1775.0	10	DFT-s OFDM	$\pi/2$ BPSK	23.90	245.47		
				QPSK	<b>23.92</b>	<b>246.60</b>	<b>20.22</b>	<b>105.20</b>
				16QAM	22.72	187.07	19.19	82.99
				64QAM	21.07	127.94		
				256QAM	18.65	73.28		
	CP-OFDM	QPSK	22.02	159.22				
	1712.5 - 1777.5	5	DFT-s OFDM	$\pi/2$ BPSK	23.90	245.47		
				QPSK	23.89	244.91		
16QAM				22.88	194.09			
64QAM				21.47	140.28			
256QAM				19.10	81.28			
CP-OFDM	QPSK	22.38	172.98					

**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	23.74	236.49		
				QPSK	23.48	222.70	23.67	232.81
				16QAM	22.61	182.44	22.57	180.72
				64QAM	20.64	115.80		
				256QAM	18.55	71.69		
	CP-OFDM	QPSK	21.58	143.79				
	3495.0 - 3504.99	90	DFT-s OFDM	$\pi/2$ BPSK	23.44	220.62		
				QPSK	23.59	228.70	23.93	247.17
				16QAM	22.09	161.77	23.00	199.53
				64QAM	20.71	117.83		
				256QAM	18.79	75.69		
	CP-OFDM	QPSK	21.53	142.23				
	3490.02 - 3510.0	80	DFT-s OFDM	$\pi/2$ BPSK	23.70	234.62		
				QPSK	23.74	236.64	24.02	252.35
				16QAM	22.73	187.71	23.03	200.91
				64QAM	22.46	176.27		
				256QAM	22.09	161.81		
	CP-OFDM	QPSK	22.09	161.81				
	3485.01 - 3514.98	70	DFT-s OFDM	$\pi/2$ BPSK	23.73	236.03		
				QPSK	23.63	230.43	24.18	261.82
				16QAM	22.64	183.86	23.28	212.81
				64QAM	20.73	118.18		
				256QAM	19.22	83.66		
	CP-OFDM	QPSK	22.06	160.61				
	3480 - 3519.99	60	DFT-s OFDM	$\pi/2$ BPSK	24.00	251.21		
				QPSK	24.11	257.74	24.80	302.00
				16QAM	22.84	192.10	23.83	241.55
				64QAM	21.34	136.05		
				256QAM	19.31	85.28		
	CP-OFDM	QPSK	22.32	170.51				
	3475.02 - 3525	50	DFT-s OFDM	$\pi/2$ BPSK	23.97	249.19		
				QPSK	24.10	257.22	24.77	299.92
16QAM				22.87	193.68	23.61	229.61	
64QAM				21.58	143.94			
256QAM				19.40	87.12			
CP-OFDM	QPSK	22.56	180.31					
3470.01 - 3529.98	40	DFT-s OFDM	$\pi/2$ BPSK	24.14	259.56			
			QPSK	24.36	272.68	<b>24.82</b>	<b>303.39</b>	
			16QAM	22.81	191.13	23.87	243.78	
			64QAM	21.62	145.27			
			256QAM	19.28	84.69			
CP-OFDM	QPSK	22.43	175.00					
3465.0 - 3535.02	30	DFT-s OFDM	$\pi/2$ BPSK	25.27	336.65			
			QPSK	<b>25.30</b>	<b>339.11</b>	24.66	292.42	
			16QAM	24.46	279.02	23.60	229.09	
			64QAM	23.06	202.15			
			256QAM	20.46	111.12			
CP-OFDM	QPSK	23.85	242.80					

n77	3460.02 - 3540.0	20	DFT-s OFDM	$\pi/2$ BPSK	25.15	327.37		
				QPSK	25.29	338.19	24.63	290.40
				16QAM	24.27	267.44	23.65	231.74
				64QAM	22.61	182.29		
				256QAM	20.33	107.84		
	CP-OFDM	QPSK	23.69	234.03				
	3457.5 - 3542.49	15	DFT-s OFDM	$\pi/2$ BPSK	24.28	268.03		
				QPSK	24.40	275.67	24.72	296.48
				16QAM	23.33	215.27	23.63	230.67
				64QAM	21.82	151.88		
				256QAM	19.64	91.98		
	CP-OFDM	QPSK	22.90	194.85				
	3455.01 - 3549.99	10	DFT-s OFDM	$\pi/2$ BPSK	23.67	232.98		
				QPSK	23.76	237.66	24.43	277.33
				16QAM	22.72	187.26	23.51	224.39
64QAM				21.22	132.34			
256QAM				18.96	78.77			
CP-OFDM	QPSK	22.34	171.37					

**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	19.08	80.91		
	3495.0 - 3504.99	90	19.13	81.85		
	3490.02 - 3510.0	80	19.14	82.04		
	3485.01 - 3514.98	70	19.21	83.37		
	3480 - 3519.99	60	19.26	84.33		
	3475.02 - 3525	50	19.14	82.04		
	3470.01 - 3529.98	40	19.40	87.10		
	3465.0 - 3535.02	30	<b>19.40</b>	<b>87.10</b>	<b>16.19</b>	<b>41.59</b>
	3460.02 - 3540.0	20	19.18	82.79		
	3457.5 - 3542.49	15	19.37	86.50		
3455.01 - 3549.99	10	19.34	85.90			

**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	20.60	114.82		
	3495.0 - 3504.99	90	20.45	110.92		
	3490.02 - 3510.0	80	20.38	109.14		
	3485.01 - 3514.98	70	20.46	111.17		
	3480 - 3519.99	60	20.47	111.43		
	3475.02 - 3525	50	20.69	117.22		
	3470.01 - 3529.98	40	20.72	118.03		
	3465.0 - 3535.02	30	<b>20.75</b>	<b>118.85</b>	<b>24.31</b>	<b>269.77</b>
	3460.02 - 3540.0	20	20.72	118.03		
	3457.5 - 3542.49	15	20.57	114.02		
	3455.01 - 3549.99	10	20.36	108.64		

**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	19.29	84.92		
	3495.0 - 3504.99	90	19.45	88.10		
	3490.02 - 3510.0	80	19.35	86.10		
	3485.01 - 3514.98	70	19.32	85.51		
	3480 - 3519.99	60	19.34	85.90		
	3475.02 - 3525	50	19.25	84.14		
	3470.01 - 3529.98	40	<b>19.58</b>	<b>90.78</b>	<b>14.51</b>	<b>28.23</b>
	3465.0 - 3535.02	30	19.57	90.57		
	3460.02 - 3540.0	20	19.45	88.10		
	3457.5 - 3542.49	15	19.53	89.74		
	3455.01 - 3549.99	10	19.35	86.10		

**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	23.87	243.76				
				QPSK	23.98	249.97	23.03	200.91		
				16QAM	22.98	198.61	22.11	162.55		
				64QAM	21.47	140.37				
				256QAM	19.07	80.64				
			CP-OFDM	QPSK	22.16	164.29				
			3745.02 - 3934.98	90	DFT-s OFDM	$\pi/2$ BPSK	23.95	248.42		
						QPSK	23.98	250.23	21.86	153.46
						16QAM	22.51	178.04	20.89	122.74
						64QAM	21.09	128.43		
	256QAM	18.97				78.92				
	CP-OFDM	QPSK	22.28	168.97						
	3740.01 - 3939.99	80	DFT-s OFDM	$\pi/2$ BPSK	23.95	248.25				
				QPSK	23.95	248.21	23.11	204.64		
				16QAM	22.88	194.25	21.84	152.76		
				64QAM	22.82	191.56				
				256QAM	22.89	194.57				
			CP-OFDM	QPSK	22.89	194.57				
	3735.02 - 3944.98	70	DFT-s OFDM	$\pi/2$ BPSK	24.05	254.11				
				QPSK	24.07	255.56	22.81	190.99		
				16QAM	23.01	200.18	21.94	156.31		
				64QAM	21.28	134.36				
				256QAM	19.42	87.50				
			CP-OFDM	QPSK	22.37	172.58				
	3730.02 - 3949.98	60	DFT-s OFDM	$\pi/2$ BPSK	23.96	249.02				
				QPSK	24.08	255.60	22.79	190.11		
				16QAM	22.63	183.02	21.72	148.59		
				64QAM	21.25	133.41				
				256QAM	19.10	81.25				
			CP-OFDM	QPSK	22.17	164.67				
	3725.01 - 3954.99	50	DFT-s OFDM	$\pi/2$ BPSK	24.34	271.49				
				QPSK	24.38	274.31	22.86	193.20		
				16QAM	22.97	198.00	22.09	161.81		
				64QAM	21.57	143.44				
				256QAM	19.61	91.51				
			CP-OFDM	QPSK	22.71	186.48				
	3720.02 - 3960.0	40	DFT-s OFDM	$\pi/2$ BPSK	24.25	266.20				
				QPSK	24.38	274.14	23.00	199.53		
				16QAM	23.17	207.45	22.00	158.49		
				64QAM	21.64	145.76				
				256QAM	19.67	92.64				
			CP-OFDM	QPSK	22.97	198.35				
	3715.02 - 3964.98	30	DFT-s OFDM	$\pi/2$ BPSK	<b>25.51</b>	<b>355.65</b>				
				QPSK	25.47	352.06	<b>23.20</b>	<b>208.93</b>		
				16QAM	24.46	279.46	22.18	165.20		
				64QAM	22.79	190.30				
				256QAM	20.59	114.49				
			CP-OFDM	QPSK	23.85	242.75				

n77	3710.01 - 3969.99	20	DFT-s OFDM	$\pi/2$ BPSK	24.05	253.83		
				QPSK	24.15	259.95	23.11	204.64
				16QAM	23.06	202.46	22.17	164.82
				64QAM	21.75	149.75		
				256QAM	19.60	91.17		
	CP-OFDM	QPSK	22.76	188.78				
	3707.52 - 3972.48	15	DFT-s OFDM	$\pi/2$ BPSK	24.17	261.11		
				QPSK	24.26	266.80	23.12	205.12
				16QAM	23.24	210.91	22.25	167.88
				64QAM	21.59	144.23		
				256QAM	19.62	91.67		
	CP-OFDM	QPSK	22.43	175.08				
	3705.0 - 3975.0	10	DFT-s OFDM	$\pi/2$ BPSK	23.91	245.86		
				QPSK	23.87	243.75	22.80	190.55
				16QAM	22.84	192.15	21.47	140.28
64QAM				21.43	138.94			
256QAM				19.26	84.33			
CP-OFDM	QPSK	22.27	168.52					

**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	19.46	88.31		
	3745.02 - 3934.98	90	19.51	89.33		
	3740.01 - 3939.99	80	19.58	90.78		
	3735.02 - 3944.98	70	19.10	81.28		
	3730.02 - 3949.98	60	19.86	96.83		
	3725.01 - 3954.99	50	19.73	93.97		
	3720.02 - 3960.0	40	19.90	97.72		
	3715.02 - 3964.98	30	<b>19.97</b>	<b>99.31</b>	<b>13.43</b>	<b>22.03</b>
	3710.01 - 3969.99	20	19.74	94.19		
	3707.52 - 3972.48	15	19.79	95.28		
3705.0 - 3975.0	10	19.58	90.78			

**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	19.73	93.97		
	3745.02 - 3934.98	90	19.83	96.16		
	3740.01 - 3939.99	80	19.84	96.38		
	3735.02 - 3944.98	70	19.80	95.50		
	3730.02 - 3949.98	60	19.97	99.31		
	3725.01 - 3954.99	50	20.15	103.51		
	3720.02 - 3960.0	40	20.24	105.68		
	3715.02 - 3964.98	30	<b>20.27</b>	<b>106.41</b>	<b>21.69</b>	<b>147.57</b>
	3710.01 - 3969.99	20	20.12	102.80		
	3707.52 - 3972.48	15	20.03	100.69		
	3705.0 - 3975.0	10	20.04	100.93		

**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	18.80	75.86		
	3745.02 - 3934.98	90	18.94	78.34		
	3740.01 - 3939.99	80	18.90	77.62		
	3735.02 - 3944.98	70	19.01	79.62		
	3730.02 - 3949.98	60	19.01	79.62		
	3725.01 - 3954.99	50	18.99	79.25		
	3720.02 - 3960.0	40	<b>19.25</b>	<b>84.14</b>	<b>14.52</b>	<b>28.31</b>
	3715.02 - 3964.98	30	19.19	82.99		
	3710.01 - 3969.99	20	18.93	78.16		
	3707.52 - 3972.48	15	18.94	78.34		
	3705.0 - 3975.0	10	19.02	79.80		

**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 / NR Band n25 1850 - 1915 MHz	-1.2
WCDMA Band 4 / LTE Band 4 / LTE Band 66 / NR Band n66 1710 - 1780 MHz	-2.5 (Main1 ANT) -2.4 (Sub2 ANT)
GSM850/WCDMA Band 5 / LTE Band 5 / LTE Band 26 / NR Band n5 814 - 849 MHz	-3.0
LTE Band 12 699 - 716 MHz	-4.2
LTE Band 13 777 - 787 MHz	-4.5
LTE Band 41(PC2) / NR Band n41 2496 ~ 2690 MHz	-0.6
NR Band n41(SRS1) 2496 ~ 2690 MHz	-1.2
NR Band n41(SRS2) 2496 ~ 2690 MHz	-4.8
NR Band n41(SRS3) 2496 ~ 2690 MHz	-3.3
NR Band n77(Lower) 3450 ~ 3550 MHz	0.6
NR Band n77(Lower, SRS1) 3450 ~ 3550 MHz	-2.3
NR Band n77(Lower, SRS2) 3450 ~ 3550 MHz	-3.4
NR Band n77(Lower, SRS3) 3450 ~ 3550 MHz	-3.4
NR Band n77(Upper) 3700 ~ 3980 MHz	-1.0
NR Band n77(Upper, SRS1) 3700 ~ 3980 MHz	-3.6
NR Band n77(Upper, SRS2) 3700 ~ 3980 MHz	-4.1
NR Band n77(Upper, SRS3) 3700 ~ 3980 MHz	-3.3

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## 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. It was found that QPSK and 16QAM results were 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.

LTE Band 4 Uplink Carrier Aggregation(inter-band) supported 2A-4A/4A-5A/4A-12A. All combinations have been modified and the worst case combination of CA 4A-5A was set for radiated emission test by setting bandwidth and RB offset(with RB size 1) with the highest power in QPSK.

For 5G NR n5, n25, 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. It was found that QPSK and 16QAM results were worst case. Both NSA and SA modes were tested and worst case is NSA mode 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.

For 5G NR n66, the worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on  $\pi/2$  BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations. It was found 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.

For 5G NR n41, the worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on  $\pi/2$  BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations. It was found that  $\pi/2$  BPSK and 16QAM results was worst case. Both NSA and SA modes were tested and worst case is NSA mode 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  $\pi/2$  BPSK.

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 worst-case scenario was radiated tested and reported.

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**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 Band 41(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.

Highest power setting for each bands				
LTE Band	Frequency (MHz)	Bandwidth (MHz)	RB size	RB offset
<b>4 ULCA (Sub2 ANT)</b>	1715.0	10	1	25
	1732.5		1	25
	1750.0		1	25
<b>5</b>	829.0	10	1	0
	836.5		1	25
	844.0		1	0
<b>12</b>	701.5	5	1	24
	707.5		1	12
	713.5		1	12
<b>13</b>	779.5	5	1	12
	782.0		1	12
	784.5		1	12
<b>25</b>	1852.5	5	1	12
	1882.5		1	12
	1912.5		1	12
<b>26 (Part 90)</b>	816.5	5	1	12
	821.5		1	12
<b>26 (Straddle)</b>	824.0	10	1	0
<b>26 (Part 22)</b>	825.5	3	1	8
	831.5		1	8
	847.5		1	8
<b>41(PC2)</b>	2498.5	5	1	12
	2593.0		1	12
	2687.5		1	0
<b>66</b>	1712.5	5	1	12
	1745.0		1	12
	1777.5		1	12

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	1852.5	5	1	23
	1882.5		1	1
	1912.5		1	13
41	2521.01	50	1	67
	2592.99		1	131
	2665.00		1	131
66 (Main1 ANT)	1720.0	20	1	1
	1745.0		1	104
	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)	3715.0	30	1	39
	3840.0		1	76
	3965.0		1	39

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
77 (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	-
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	R37R38J4A28SE3	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02111ABBE	N/A

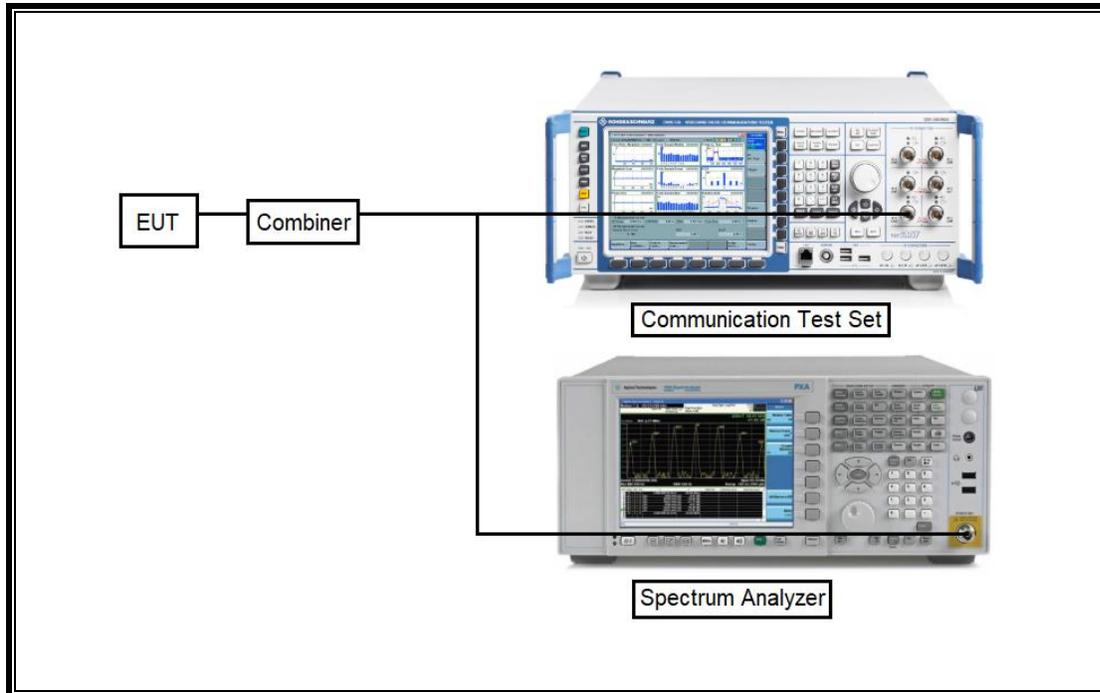
### I/O CABLE

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

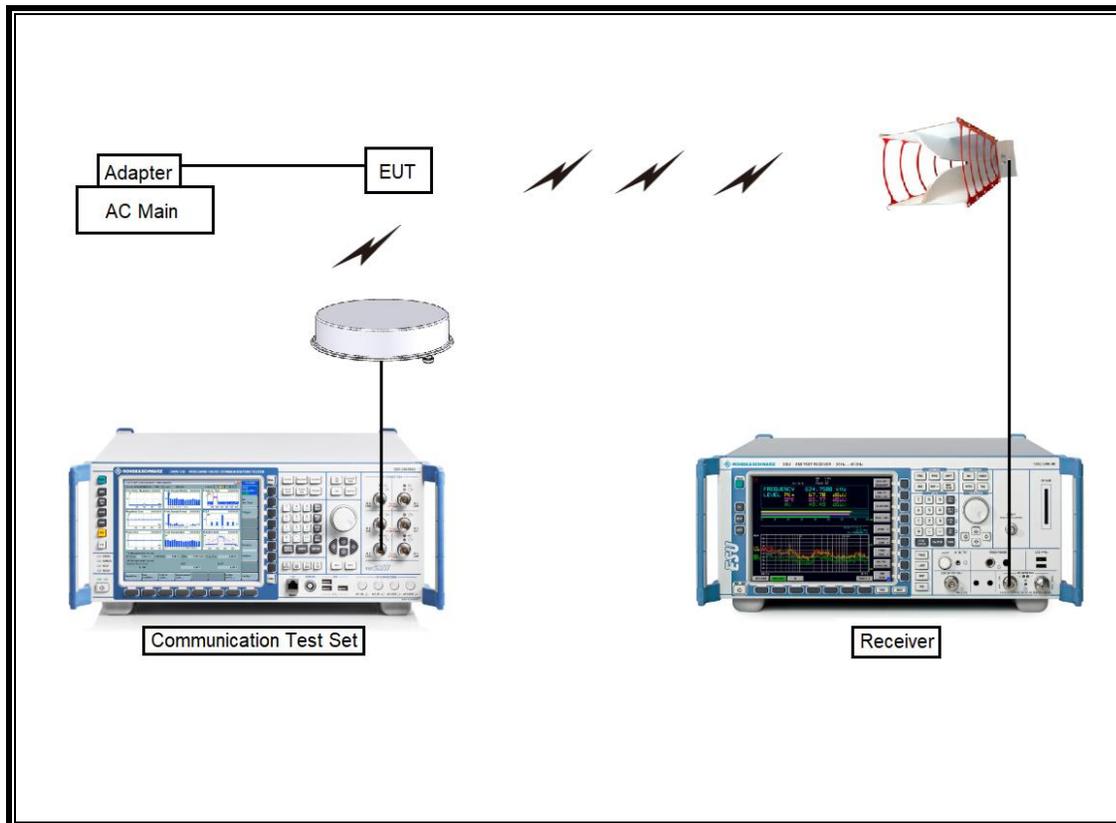
### TEST SETUP

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
UXM 5G 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(b)(10) 27.50(c)(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	

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## 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 either CMW500 Test Set or E7515B Test set and configured to operate at maximum power.

#### NOTE

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

#### RESULTS

See the following pages.

**8.1.1. CONDUCTED AVERAGE OUTPUT POWER**

**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	32.45	23.42	33.7	24.7
			190	836.6	33.09	24.06		
			251	848.8	33.38	24.35		
GPRS (GMSK)	CS1	1	128	824.2	32.55	23.52	33.7	24.7
			190	836.6	33.10	24.07		
			251	848.8	33.37	24.34		
		2	128	824.2	30.92	24.90	32.0	<b>26.0</b>
			190	836.6	30.98	24.96		
			251	848.8	31.52	25.50		
		3	128	824.2	29.13	24.87	30.0	25.7
			190	836.6	29.36	25.10		
			251	848.8	29.43	25.17		
		4	128	824.2	27.40	24.39	27.5	24.5
			190	836.6	27.48	24.47		
			251	848.8	27.00	23.99		
EGPRS (8PSK)	MCS5	1	128	824.2	26.60	17.57	27.5	18.5
			190	836.6	27.15	18.12		
			251	848.8	27.45	18.42		
		2	128	824.2	25.06	19.04	25.7	19.7
			190	836.6	25.27	19.25		
			251	848.8	25.55	19.53		
		3	128	824.2	23.08	18.82	23.7	19.4
			190	836.6	23.23	18.97		
			251	848.8	23.48	19.22		
		4	128	824.2	21.98	18.97	22.5	19.5
			190	836.6	22.27	19.26		
			251	848.8	22.45	19.44		

**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	29.54	20.51	31.0	22.0
			661	1880.0	29.83	20.80		
			810	1909.8	29.84	20.81		
GPRS (GMSK)	CS1	1	512	1850.2	29.57	20.54	31.0	22.0
			661	1880.0	29.78	20.75		
			810	1909.8	29.80	20.77		
		2	512	1850.2	27.32	21.30	29.0	23.0
			661	1880.0	27.43	21.41		
			810	1909.8	27.62	21.60		
		3	512	1850.2	25.62	21.36	27.0	22.7
			661	1880.0	25.83	21.57		
			810	1909.8	26.16	21.90		
		4	512	1850.2	23.69	20.68	25.5	22.5
			661	1880.0	24.13	21.12		
			810	1909.8	24.46	21.45		
EGPRS (8PSK)	MCS5	1	512	1850.2	25.10	16.07	26.5	17.5
			661	1880.0	25.80	16.77		
			810	1909.8	26.17	17.14		
		2	512	1850.2	23.32	17.30	24.7	18.7
			661	1880.0	23.61	17.59		
			810	1909.8	23.85	17.83		
		3	512	1850.2	21.30	17.04	22.7	18.4
			661	1880.0	21.55	17.29		
			810	1909.8	21.75	17.49		
		4	512	1850.2	20.10	17.09	21.7	18.7
			661	1880.0	20.78	17.77		
			810	1909.8	21.01	18.00		

**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	24.39	N/A	25.5
		4183	836.6	24.21		
		4233	846.6	24.14		
HSDPA	Subtest 1	4132	826.4	23.39	0	24.5
		4183	836.6	23.20		
		4233	846.6	23.14		
	Subtest 2	4132	826.4	23.37	0	24.5
		4183	836.6	23.21		
		4233	846.6	23.13		
	Subtest 3	4132	826.4	22.90	0.5	24.0
		4183	836.6	22.72		
		4233	846.6	22.66		
	Subtest 4	4132	826.4	22.88	0.5	24.0
		4183	836.6	22.70		
		4233	846.6	22.63		
HSUPA	Subtest 1	4132	826.4	23.39	0	24.5
		4183	836.6	23.21		
		4233	846.6	23.17		
	Subtest 2	4132	826.4	21.38	2	22.5
		4183	836.6	21.18		
		4233	846.6	21.10		
	Subtest 3	4132	826.4	22.37	1	23.5
		4183	836.6	22.20		
		4233	846.6	22.13		
	Subtest 4	4132	826.4	21.40	2	22.5
		4183	836.6	21.20		
		4233	846.6	21.13		
	Subtest 5	4132	826.4	22.94	0	24.5
		4183	836.6	22.76		
		4233	846.6	22.71		
DC-HSDPA	Subtest 1	4132	826.4	23.42	0	24.5
		4183	836.6	23.24		
		4233	846.6	23.16		
	Subtest 2	4132	826.4	23.39	0	24.5
		4183	836.6	23.21		
		4233	846.6	23.12		
	Subtest 3	4132	826.4	22.88	0.5	24.0
		4183	836.6	22.72		
		4233	846.6	22.64		
	Subtest 4	4132	826.4	22.89	0.5	24.0
		4183	836.6	22.74		
		4233	846.6	22.64		

**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	23.12	N/A	24.0
		1413	1732.6	22.87		
		1513	1752.6	22.80		
HSDPA	Subtest 1	1312	1712.4	22.06	0	24.0
		1413	1732.6	21.85		
		1513	1752.6	21.75		
	Subtest 2	1312	1712.4	22.11	0	24.0
		1413	1732.6	21.83		
		1513	1752.6	21.75		
	Subtest 3	1312	1712.4	21.55	0.5	23.5
		1413	1732.6	21.32		
		1513	1752.6	21.24		
	Subtest 4	1312	1712.4	21.56	0.5	23.5
		1413	1732.6	21.33		
		1513	1752.6	21.23		
HSUPA	Subtest 1	1312	1712.4	22.03	0	23.0
		1413	1732.6	21.82		
		1513	1752.6	21.78		
	Subtest 2	1312	1712.4	20.04	2	21.0
		1413	1732.6	19.84		
		1513	1752.6	19.74		
	Subtest 3	1312	1712.4	21.02	1	22.0
		1413	1732.6	20.87		
		1513	1752.6	20.76		
	Subtest 4	1312	1712.4	20.07	2	21.0
		1413	1732.6	19.85		
		1513	1752.6	19.81		
	Subtest 5	1312	1712.4	21.65	0	23.0
		1413	1732.6	21.45		
		1513	1752.6	21.37		
DC-HSDPA	Subtest 1	1312	1712.4	22.09	0	24.0
		1413	1732.6	21.90		
		1513	1752.6	21.81		
	Subtest 2	1312	1712.4	22.12	0	24.0
		1413	1732.6	21.90		
		1513	1752.6	21.81		
	Subtest 3	1312	1712.4	21.62	0.5	23.5
		1413	1732.6	21.37		
		1513	1752.6	21.30		
	Subtest 4	1312	1712.4	21.54	0.5	23.5
		1413	1732.6	21.37		
		1513	1752.6	21.27		

**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	22.74	N/A	24.0
		9400	1880.0	22.95		
		9538	1907.6	23.17		
HSDPA	Subtest 1	9262	1852.4	21.78	0	24.0
		9400	1880.0	21.93		
		9538	1907.6	22.15		
	Subtest 2	9262	1852.4	21.80	0	24.0
		9400	1880.0	21.92		
		9538	1907.6	22.12		
	Subtest 3	9262	1852.4	21.29	0.5	23.5
		9400	1880.0	21.41		
		9538	1907.6	21.63		
	Subtest 4	9262	1852.4	21.27	0.5	23.5
		9400	1880.0	21.42		
		9538	1907.6	21.63		
HSUPA	Subtest 1	9262	1852.4	21.74	0	24.0
		9400	1880.0	21.90		
		9538	1907.6	22.14		
	Subtest 2	9262	1852.4	19.73	2	22.0
		9400	1880.0	19.91		
		9538	1907.6	20.18		
	Subtest 3	9262	1852.4	20.76	1	23.0
		9400	1880.0	20.93		
		9538	1907.6	21.19		
	Subtest 4	9262	1852.4	19.80	2	22.0
		9400	1880.0	19.93		
		9538	1907.6	20.15		
	Subtest 5	9262	1852.4	21.50	0	24.0
		9400	1880.0	21.53		
		9538	1907.6	21.76		
DC-HSDPA	Subtest 1	9262	1852.4	21.77	0	24.0
		9400	1880.0	21.96		
		9538	1907.6	22.16		
	Subtest 2	9262	1852.4	21.77	0	24.0
		9400	1880.0	21.91		
		9538	1907.6	22.16		
	Subtest 3	9262	1852.4	21.26	0.5	23.5
		9400	1880.0	21.41		
		9538	1907.6	21.67		
	Subtest 4	9262	1852.4	21.30	0.5	23.5
		9400	1880.0	21.44		
		9538	1907.6	21.67		

**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	24.62	24.56	24.32	0.0	25.5
		1	25	24.58	24.57	24.32	0.0	25.5
		1	49	24.44	24.50	24.26	0.0	25.5
		25	0	23.62	23.51	23.28	1.0	24.5
		25	12	23.51	23.59	23.32	1.0	24.5
		25	25	23.45	23.54	23.29	1.0	24.5
		50	0	23.49	23.56	23.35	1.0	24.5
	16QAM	1	0	23.98	23.83	23.70	1.0	24.5
		1	25	23.87	23.79	23.68	1.0	24.5
		1	49	23.79	23.65	23.63	1.0	24.5
		25	0	22.61	22.51	22.25	2.0	23.5
		25	12	22.50	22.61	22.35	2.0	23.5
		25	25	22.44	22.56	22.28	2.0	23.5
		50	0	22.49	22.55	22.34	2.0	23.5
	64QAM	1	0	22.79	22.79	22.56	2.0	23.5
		1	25	22.76	22.78	22.58	2.0	23.5
		1	49	22.59	22.66	22.49	2.0	23.5
		25	0	21.64	21.51	21.30	3.0	22.5
		25	12	21.50	21.57	21.37	3.0	22.5
		25	25	21.45	21.53	21.31	3.0	22.5
		50	0	21.52	21.56	21.34	3.0	22.5
	256QAM	1	0	19.78	19.65	19.42	5.0	20.5
		1	25	19.76	19.71	19.46	5.0	20.5
		1	49	19.54	19.58	19.40	5.0	20.5
		25	0	19.61	19.50	19.27	5.0	20.5
		25	12	19.51	19.58	19.35	5.0	20.5
		25	25	19.47	19.52	19.32	5.0	20.5
		50	0	19.50	19.55	19.35	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	24.68
1	12	24.72	24.55			24.49	0.0	25.5
1	24	24.58	24.44			24.45	0.0	25.5
12	0	23.66	23.50			23.32	1.0	24.5
12	7	23.71	23.54			23.44	1.0	24.5
12	13	23.57	23.49			23.42	1.0	24.5
25	0	23.68	23.46			23.43	1.0	24.5
16QAM	1	0	23.78		23.59	23.61	1.0	24.5
	1	12	23.89		23.69	23.69	1.0	24.5
	1	24	23.75		23.60	23.56	1.0	24.5
	12	0	22.68		22.56	22.36	2.0	23.5
	12	7	22.73		22.60	22.48	2.0	23.5
	12	13	22.59		22.56	22.44	2.0	23.5
	25	0	22.67		22.51	22.47	2.0	23.5
64QAM	1	0	22.91		22.78	22.65	2.0	23.5
	1	12	22.89		22.78	22.64	2.0	23.5
	1	24	22.79		22.69	22.60	2.0	23.5
	12	0	21.73		21.53	21.36	3.0	22.5
	12	7	21.78		21.57	21.48	3.0	22.5
	12	13	21.65		21.55	21.43	3.0	22.5
	25	0	21.70		21.50	21.44	3.0	22.5
256QAM	1	0	19.75		19.70	19.52	5.0	20.5
	1	12	19.79		19.72	19.61	5.0	20.5
	1	24	19.63		19.62	19.53	5.0	20.5
	12	0	19.70		19.53	19.35	5.0	20.5
	12	7	19.76		19.54	19.46	5.0	20.5
	12	13	19.63		19.52	19.42	5.0	20.5
	25	0	19.71		19.49	19.43	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	24.70	24.44	24.35	0.0	25.5
		1	8	24.78	24.54	24.47	0.0	25.5
		1	14	24.62	24.44	24.34	0.0	25.5
		8	0	23.68	23.50	23.31	1.0	24.5
		8	4	23.66	23.52	23.35	1.0	24.5
		8	7	23.65	23.52	23.34	1.0	24.5
	15	0	23.62	23.49	23.32	1.0	24.5	
	16QAM	1	0	23.87	23.65	23.54	1.0	24.5
		1	8	23.93	23.73	23.63	1.0	24.5
		1	14	23.73	23.61	23.52	1.0	24.5
		8	0	22.72	22.54	22.34	2.0	23.5
		8	4	22.67	22.60	22.39	2.0	23.5
		8	7	22.64	22.57	22.39	2.0	23.5
	15	0	22.64	22.49	22.32	2.0	23.5	
	64QAM	1	0	22.83	22.63	22.52	2.0	23.5
		1	8	22.89	22.73	22.61	2.0	23.5
		1	14	22.78	22.55	22.53	2.0	23.5
		8	0	21.71	21.56	21.35	3.0	22.5
		8	4	21.72	21.57	21.39	3.0	22.5
		8	7	21.69	21.59	21.39	3.0	22.5
	15	0	21.65	21.52	21.34	3.0	22.5	
	256QAM	1	0	19.78	19.67	19.41	5.0	20.5
		1	8	19.89	19.71	19.59	5.0	20.5
		1	14	19.72	19.58	19.47	5.0	20.5
8		0	19.71	19.52	19.34	5.0	20.5	
8		4	19.69	19.55	19.39	5.0	20.5	
8		7	19.67	19.55	19.37	5.0	20.5	
15	0	19.65	19.50	19.31	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	24.64	24.45	24.31	0.0	25.5
		1	3	24.67	24.48	24.38	0.0	25.5
		1	5	24.62	24.45	24.37	0.0	25.5
		3	0	24.68	24.47	24.39	0.0	25.5
		3	1	24.68	24.49	24.37	0.0	25.5
		3	3	24.67	24.48	24.35	0.0	25.5
	6	0	23.65	23.45	23.37	1.0	24.5	
	16QAM	1	0	23.80	23.58	23.48	1.0	24.5
		1	3	23.85	23.62	23.56	1.0	24.5
		1	5	23.74	23.64	23.50	1.0	24.5
		3	0	23.75	23.57	23.47	1.0	24.5
		3	1	23.76	23.56	23.49	1.0	24.5
		3	3	23.76	23.58	23.50	1.0	24.5
	6	0	22.75	22.47	22.35	2.0	23.5	
	64QAM	1	0	22.73	22.72	22.54	2.0	23.5
		1	3	22.77	22.61	22.61	2.0	23.5
		1	5	22.67	22.56	22.55	2.0	23.5
		3	0	22.78	22.59	22.53	2.0	23.5
		3	1	22.80	22.61	22.51	2.0	23.5
		3	3	22.78	22.58	22.51	2.0	23.5
	6	0	21.73	21.50	21.43	3.0	22.5	
	256QAM	1	0	19.80	19.56	19.43	5.0	20.5
		1	3	19.80	19.74	19.54	5.0	20.5
		1	5	19.84	19.49	19.54	5.0	20.5
3		0	19.76	19.50	19.41	5.0	20.5	
3		1	19.81	19.49	19.42	5.0	20.5	
3		3	19.79	19.47	19.40	5.0	20.5	
6	0	19.74	19.53	19.45	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	22.76	22.94	23.11	0.0	25.0
		1	25	22.96	23.19	23.24	0.0	25.0
		1	49	23.07	23.22	23.21	0.0	25.0
		25	0	21.82	22.00	22.14	1.0	24.0
		25	12	22.00	22.13	22.19	1.0	24.0
		25	25	22.04	22.20	22.25	1.0	24.0
	16QAM	50	0	21.98	22.11	22.24	1.0	24.0
		1	0	22.20	22.05	22.47	1.0	24.0
		1	25	22.35	22.21	22.50	1.0	24.0
		1	49	22.49	22.32	22.52	1.0	24.0
		25	0	20.85	20.99	21.14	2.0	23.0
		25	12	21.01	21.11	21.16	2.0	23.0
	64QAM	25	25	21.05	21.16	21.24	2.0	23.0
		50	0	20.99	21.08	21.22	2.0	23.0
		1	0	20.88	21.19	21.27	2.0	23.0
		1	25	21.11	21.43	21.39	2.0	23.0
		1	49	21.20	21.53	21.38	2.0	23.0
		25	0	19.82	20.02	20.15	3.0	22.0
	256QAM	25	12	20.02	20.16	20.20	3.0	22.0
		25	25	20.06	20.22	20.20	3.0	22.0
		50	0	19.99	20.12	20.23	3.0	22.0
		1	0	17.86	18.12	18.19	5.0	20.0
		1	25	18.14	18.35	18.37	5.0	20.0
		1	49	18.25	18.43	18.35	5.0	20.0
5 MHz	QPSK	25	0	17.87	18.01	18.17	5.0	20.0
		25	12	18.04	18.13	18.21	5.0	20.0
		25	25	18.10	18.18	18.21	5.0	20.0
		50	0	18.01	18.12	18.23	5.0	20.0
		1	0	22.78	23.10	23.37	0.0	25.0
		1	12	22.95	23.32	23.47	0.0	25.0
	16QAM	1	24	22.97	23.22	23.40	0.0	25.0
		12	0	21.81	22.17	22.33	1.0	24.0
		12	7	21.94	22.20	22.37	1.0	24.0
		12	13	21.94	22.24	22.42	1.0	24.0
		25	0	21.90	22.17	22.34	1.0	24.0
		1	0	21.90	22.18	22.52	1.0	24.0
	64QAM	1	12	22.07	22.35	22.58	1.0	24.0
		1	24	22.05	22.32	22.55	1.0	24.0
		12	0	20.87	21.09	21.34	2.0	23.0
		12	7	21.00	21.15	21.38	2.0	23.0
		12	13	20.97	21.20	21.44	2.0	23.0
		25	0	20.95	21.19	21.36	2.0	23.0
	256QAM	1	0	20.95	21.17	21.45	2.0	23.0
		1	12	21.05	21.34	21.54	2.0	23.0
		1	24	21.12	21.28	21.51	2.0	23.0
		12	0	19.85	20.14	20.37	3.0	22.0
		12	7	19.99	20.19	20.42	3.0	22.0
		12	13	19.99	20.28	20.49	3.0	22.0
QPSK	25	0	19.94	20.19	20.38	3.0	22.0	
	1	0	18.00	18.17	18.40	5.0	20.0	
	1	12	18.14	18.43	18.57	5.0	20.0	
	1	24	18.16	18.37	18.49	5.0	20.0	
	12	0	17.86	18.17	18.35	5.0	20.0	
	12	7	17.97	18.25	18.40	5.0	20.0	
16QAM	12	13	17.99	18.29	18.46	5.0	20.0	
	25	0	17.94	18.19	18.38	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	22.81	23.14	23.32	0.0	25.0
		1	8	22.93	23.27	23.45	0.0	25.0
		1	14	22.86	23.19	23.36	0.0	25.0
		8	0	21.79	22.14	22.35	1.0	24.0
		8	4	21.93	22.19	22.39	1.0	24.0
		8	7	21.92	22.27	22.46	1.0	24.0
	15	0	21.91	22.16	22.34	1.0	24.0	
	16QAM	1	0	21.96	22.26	22.52	1.0	24.0
		1	8	22.06	22.39	22.64	1.0	24.0
		1	14	21.97	22.31	22.57	1.0	24.0
		8	0	20.85	21.21	21.37	2.0	23.0
		8	4	20.95	21.26	21.42	2.0	23.0
		8	7	20.97	21.33	21.48	2.0	23.0
	15	0	20.91	21.17	21.37	2.0	23.0	
	64QAM	1	0	20.89	21.25	21.65	2.0	23.0
		1	8	20.99	21.38	21.78	2.0	23.0
		1	14	20.96	21.33	21.66	2.0	23.0
		8	0	19.80	20.18	20.41	3.0	22.0
		8	4	19.91	20.21	20.45	3.0	22.0
		8	7	19.91	20.30	20.50	3.0	22.0
	15	0	19.86	20.17	20.38	3.0	22.0	
	256QAM	1	0	17.94	18.32	18.42	5.0	20.0
		1	8	18.06	18.48	18.57	5.0	20.0
		1	14	17.96	18.37	18.51	5.0	20.0
8		0	17.80	18.19	18.41	5.0	20.0	
8		4	17.94	18.22	18.44	5.0	20.0	
8		7	17.90	18.28	18.50	5.0	20.0	
15	0	17.91	18.16	18.39	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	22.82	23.17	23.40	0.0	25.0
		1	3	22.83	23.20	23.46	0.0	25.0
		1	5	22.81	23.21	23.41	0.0	25.0
		3	0	22.81	23.17	23.41	0.0	25.0
		3	1	22.83	23.23	23.43	0.0	25.0
		3	3	22.80	23.23	23.45	0.0	25.0
	6	0	21.79	22.11	22.33	1.0	24.0	
	16QAM	1	0	21.89	22.38	22.51	1.0	24.0
		1	3	21.96	22.33	22.63	1.0	24.0
		1	5	21.92	22.38	22.59	1.0	24.0
		3	0	21.84	22.24	22.55	1.0	24.0
		3	1	21.81	22.27	22.56	1.0	24.0
		3	3	21.83	22.29	22.56	1.0	24.0
	6	0	20.81	21.13	21.40	2.0	23.0	
	64QAM	1	0	20.93	21.25	21.57	2.0	23.0
		1	3	20.99	21.31	21.63	2.0	23.0
		1	5	20.94	21.27	21.60	2.0	23.0
		3	0	20.92	21.32	21.51	2.0	23.0
		3	1	20.93	21.31	21.54	2.0	23.0
		3	3	20.93	21.36	21.53	2.0	23.0
	6	0	19.86	20.08	20.34	3.0	22.0	
	256QAM	1	0	17.95	18.22	18.49	5.0	20.0
		1	3	18.02	18.25	18.68	5.0	20.0
		1	5	17.93	18.29	18.63	5.0	20.0
3		0	17.91	18.16	18.44	5.0	20.0	
3		1	17.91	18.22	18.52	5.0	20.0	
3		3	17.91	18.28	18.52	5.0	20.0	
6	0	17.86	18.04	18.40	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		23.45		0.0	25.0	
		1	25		23.43		0.0	25.0	
		1	49		23.35		0.0	25.0	
		25	0		22.38		1.0	24.0	
		25	12		22.35		1.0	24.0	
		25	25		22.35		1.0	24.0	
	16QAM	50	0		22.42		1.0	24.0	
		1	0		22.55		1.0	24.0	
		1	25		22.55		1.0	24.0	
		1	49		22.47		1.0	24.0	
		25	0		21.33		2.0	23.0	
		25	12		21.32		2.0	23.0	
	64QAM	25	25		21.30		2.0	23.0	
		50	0		21.35		2.0	23.0	
		1	0		21.51		2.0	23.0	
		1	25		21.56		2.0	23.0	
		1	49		21.49		2.0	23.0	
		25	0		20.42		3.0	22.0	
	256QAM	25	12		20.35		3.0	22.0	
		25	25		20.37		3.0	22.0	
		50	0		20.42		3.0	22.0	
		1	0		18.43		5.0	20.0	
		1	25		18.58		5.0	20.0	
		1	49		18.51		5.0	20.0	
5 MHz	QPSK	25	0		18.39		5.0	20.0	
		25	12		18.37		5.0	20.0	
		25	25		18.38		5.0	20.0	
		50	0		18.41		5.0	20.0	
		1	0		23.25	23.41	23.35	0.0	25.0
		1	12		23.32	23.45	23.40	0.0	25.0
	16QAM	1	24		23.20	23.35	23.36	0.0	25.0
		12	0		22.16	22.32	22.31	1.0	24.0
		12	7		22.27	22.35	22.39	1.0	24.0
		12	13		22.26	22.40	22.40	1.0	24.0
		25	0		22.23	22.39	22.37	1.0	24.0
		1	0		22.66	22.52	22.85	1.0	24.0
	64QAM	1	12		22.67	22.55	22.92	1.0	24.0
		1	24		22.67	22.41	22.82	1.0	24.0
		12	0		21.13	21.36	21.37	2.0	23.0
		12	7		21.23	21.40	21.50	2.0	23.0
		12	13		21.21	21.42	21.44	2.0	23.0
		25	0		21.32	21.40	21.36	2.0	23.0
	256QAM	1	0		21.47	21.62	21.59	2.0	23.0
		1	12		21.51	21.64	21.64	2.0	23.0
		1	24		21.44	21.55	21.59	2.0	23.0
		12	0		20.18	20.36	20.32	3.0	22.0
		12	7		20.29	20.36	20.45	3.0	22.0
		12	13		20.29	20.41	20.40	3.0	22.0
256QAM	25	0		20.28	20.39	20.42	3.0	22.0	
	1	0		18.29	18.46	18.45	5.0	20.0	
	1	12		18.45	18.59	18.61	5.0	20.0	
	1	24		18.29	18.50	18.49	5.0	20.0	
	12	0		18.20	18.36	18.37	5.0	20.0	
	12	7		18.33	18.35	18.45	5.0	20.0	
256QAM	12	13		18.30	18.41	18.43	5.0	20.0	
	25	0		18.31	18.41	18.41	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	22.46	22.57	22.61	0.0	24.0	
		1	49	22.47	22.56	22.62	0.0	24.0	
		1	99	22.45	22.54	22.63	0.0	24.0	
		50	0	21.45	21.55	21.62	1.0	23.0	
		50	24	21.55	21.64	21.71	1.0	23.0	
		50	50	21.50	21.62	21.70	1.0	23.0	
	16QAM	100	0	21.53	21.64	21.73	1.0	23.0	
		1	0	21.65	21.70	21.82	1.0	23.0	
		1	49	21.72	21.77	21.89	1.0	23.0	
		1	99	21.65	21.71	21.82	1.0	23.0	
		50	0	20.46	20.51	20.61	2.0	22.0	
		50	24	20.53	20.61	20.69	2.0	22.0	
	64QAM	50	50	20.51	20.58	20.68	2.0	22.0	
		100	0	20.54	20.62	20.72	2.0	22.0	
		1	0	20.63	20.66	20.71	2.0	22.0	
		1	49	20.67	20.73	20.79	2.0	22.0	
		1	99	20.62	20.72	20.80	2.0	22.0	
		50	0	19.44	19.54	19.60	3.0	21.0	
	256QAM	50	24	19.55	19.60	19.71	3.0	21.0	
		50	50	19.48	19.58	19.68	3.0	21.0	
		100	0	19.52	19.60	19.71	3.0	21.0	
		1	0	17.66	17.75	17.79	5.0	19.0	
		1	49	17.68	17.74	17.75	5.0	19.0	
		1	99	17.62	17.74	17.86	5.0	19.0	
	15 MHz	QPSK	50	0	17.45	17.52	17.60	5.0	19.0
			50	24	17.54	17.63	17.69	5.0	19.0
			50	50	17.52	17.61	17.70	5.0	19.0
			100	0	17.53	17.59	17.69	5.0	19.0
1			0	22.31	22.40	22.54	0.0	24.0	
1			37	22.23	22.46	22.57	0.0	24.0	
16QAM		1	74	22.28	22.35	22.56	0.0	24.0	
		36	0	21.19	21.43	21.52	1.0	23.0	
		36	20	21.25	21.43	21.51	1.0	23.0	
		36	39	21.27	21.51	21.61	1.0	23.0	
		75	0	21.28	21.45	21.54	1.0	23.0	
		1	0	21.48	21.80	21.88	1.0	23.0	
64QAM	1	37	21.44	21.86	21.95	1.0	23.0		
	1	74	21.57	21.73	21.94	1.0	23.0		
	36	0	20.23	20.45	20.55	2.0	22.0		
	36	20	20.29	20.44	20.54	2.0	22.0		
	36	39	20.30	20.53	20.65	2.0	22.0		
	75	0	20.28	20.43	20.54	2.0	22.0		
256QAM	1	0	20.41	20.45	20.61	2.0	22.0		
	1	37	20.38	20.61	20.67	2.0	22.0		
	1	74	20.38	20.54	20.67	2.0	22.0		
	36	0	19.18	19.41	19.50	3.0	21.0		
	36	20	19.23	19.43	19.52	3.0	21.0		
	36	39	19.26	19.49	19.58	3.0	21.0		
QPSK	75	0	19.26	19.44	19.51	3.0	21.0		
	1	0	17.19	17.32	17.58	5.0	19.0		
	1	37	17.31	17.44	17.65	5.0	19.0		
	1	74	17.35	17.48	17.70	5.0	19.0		
	36	0	17.19	17.42	17.50	5.0	19.0		
	36	20	17.26	17.39	17.51	5.0	19.0		
QPSK	36	39	17.24	17.47	17.59	5.0	19.0		
	75	0	17.27	17.40	17.52	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	22.33	22.53	22.69	0.0	24.0
		1	25	22.44	22.66	22.76	0.0	24.0
		1	49	22.35	22.63	22.69	0.0	24.0
		25	0	21.30	21.57	21.66	1.0	23.0
		25	12	21.41	21.57	21.68	1.0	23.0
		25	25	21.40	21.64	21.76	1.0	23.0
	16QAM	50	0	21.41	21.56	21.66	1.0	23.0
		1	0	21.66	21.97	22.00	1.0	23.0
		1	25	21.68	22.01	22.11	1.0	23.0
		1	49	21.70	22.14	22.06	1.0	23.0
		25	0	20.32	20.56	20.63	2.0	22.0
		25	12	20.44	20.58	20.67	2.0	22.0
	64QAM	25	25	20.42	20.65	20.73	2.0	22.0
		50	0	20.41	20.55	20.67	2.0	22.0
		1	0	20.55	20.64	20.79	2.0	22.0
		1	25	20.67	20.74	20.86	2.0	22.0
		1	49	20.59	20.68	20.83	2.0	22.0
		25	0	19.30	19.52	19.55	3.0	21.0
	256QAM	25	12	19.44	19.57	19.64	3.0	21.0
		25	25	19.38	19.62	19.71	3.0	21.0
		50	0	19.40	19.53	19.65	3.0	21.0
		1	0	17.31	17.57	17.73	5.0	19.0
		1	25	17.46	17.72	17.84	5.0	19.0
		1	49	17.43	17.69	17.80	5.0	19.0
5 MHz	QPSK	25	0	17.30	17.52	17.62	5.0	19.0
		25	12	17.39	17.53	17.69	5.0	19.0
		25	25	17.38	17.61	17.70	5.0	19.0
		50	0	17.37	17.53	17.64	5.0	19.0
		1	0	22.33	22.54	22.73	0.0	24.0
		1	12	22.40	22.66	22.77	0.0	24.0
	16QAM	1	24	22.34	22.61	22.75	0.0	24.0
		12	0	21.31	21.55	21.67	1.0	23.0
		12	7	21.43	21.55	21.78	1.0	23.0
		12	13	21.42	21.62	21.77	1.0	23.0
		25	0	21.37	21.54	21.77	1.0	23.0
		1	0	21.70	21.89	22.18	1.0	23.0
	64QAM	1	12	21.76	22.09	22.29	1.0	23.0
		1	24	21.74	21.95	22.18	1.0	23.0
		12	0	20.34	20.62	20.65	2.0	22.0
		12	7	20.46	20.65	20.75	2.0	22.0
		12	13	20.42	20.70	20.72	2.0	22.0
		25	0	20.39	20.53	20.80	2.0	22.0
	256QAM	1	0	20.44	20.75	20.90	2.0	22.0
		1	12	20.51	20.83	20.97	2.0	22.0
		1	24	20.42	20.79	20.91	2.0	22.0
		12	0	19.33	19.55	19.70	3.0	21.0
		12	7	19.43	19.60	19.82	3.0	21.0
		12	13	19.40	19.62	19.78	3.0	21.0
256QAM	25	0	19.36	19.53	19.78	3.0	21.0	
	1	0	17.36	17.54	17.76	5.0	19.0	
	1	12	17.49	17.75	17.91	5.0	19.0	
	1	24	17.41	17.64	17.82	5.0	19.0	
	12	0	17.29	17.54	17.68	5.0	19.0	
	12	7	17.41	17.58	17.80	5.0	19.0	
256QAM	12	13	17.39	17.64	17.76	5.0	19.0	
	25	0	17.38	17.52	17.75	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	22.33	22.52	22.71	0.0	24.0	
		1	8	22.45	22.63	22.83	0.0	24.0	
		1	14	22.33	22.55	22.74	0.0	24.0	
		8	0	21.38	21.54	21.70	1.0	23.0	
		8	4	21.41	21.59	21.81	1.0	23.0	
		8	7	21.42	21.66	21.81	1.0	23.0	
	16QAM	15	0	21.41	21.54	21.76	1.0	23.0	
		1	0	21.61	21.98	22.04	1.0	23.0	
		1	8	21.77	22.06	22.14	1.0	23.0	
		1	14	21.70	22.02	22.03	1.0	23.0	
		8	0	20.47	20.62	20.82	2.0	22.0	
		8	4	20.50	20.64	20.91	2.0	22.0	
	64QAM	8	7	20.53	20.74	20.90	2.0	22.0	
		15	0	20.40	20.56	20.80	2.0	22.0	
		1	0	20.51	20.63	20.89	2.0	22.0	
		1	8	20.54	20.80	21.05	2.0	22.0	
		1	14	20.48	20.71	20.86	2.0	22.0	
		8	0	19.41	19.54	19.71	3.0	21.0	
	256QAM	8	4	19.46	19.56	19.81	3.0	21.0	
		8	7	19.43	19.66	19.80	3.0	21.0	
		15	0	19.36	19.52	19.75	3.0	21.0	
		1	0	17.36	17.60	17.68	5.0	19.0	
		1	8	17.50	17.80	17.85	5.0	19.0	
		1	14	17.46	17.67	17.73	5.0	19.0	
	1.4 MHz	QPSK	8	0	17.35	17.54	17.64	5.0	19.0
			8	4	17.42	17.57	17.80	5.0	19.0
			8	7	17.40	17.63	17.83	5.0	19.0
			15	0	17.35	17.51	17.78	5.0	19.0
			1	0	22.32	22.49	22.64	0.0	24.0
			1	3	22.32	22.60	22.79	0.0	24.0
16QAM		1	5	22.27	22.59	22.76	0.0	24.0	
		3	0	22.33	22.55	22.76	1.0	23.0	
		3	1	22.32	22.59	22.75	1.0	23.0	
		3	3	22.34	22.57	22.76	1.0	23.0	
		6	0	21.30	21.47	21.77	1.0	23.0	
		1	0	21.51	21.80	22.12	1.0	23.0	
64QAM		1	3	21.45	21.92	22.17	1.0	23.0	
		1	5	21.47	21.85	22.07	1.0	23.0	
		3	0	21.44	21.66	21.94	2.0	22.0	
		3	1	21.39	21.68	21.94	2.0	22.0	
		3	3	21.43	21.77	21.97	2.0	22.0	
		6	0	20.31	20.46	20.88	2.0	22.0	
256QAM		1	0	20.53	20.50	20.93	2.0	22.0	
		1	3	20.46	20.64	20.94	2.0	22.0	
		1	5	20.53	20.58	20.92	2.0	22.0	
		3	0	20.33	20.65	20.81	3.0	21.0	
		3	1	20.32	20.70	20.83	3.0	21.0	
		3	3	20.34	20.70	20.82	3.0	21.0	
QPSK		6	0	19.30	19.49	19.86	3.0	21.0	
		1	0	17.35	17.55	17.82	5.0	19.0	
		1	3	17.36	17.75	17.82	5.0	19.0	
		1	5	17.38	17.63	17.81	5.0	19.0	
		3	0	17.42	17.59	17.80	5.0	19.0	
		3	1	17.40	17.67	17.77	5.0	19.0	
16QAM	3	3	17.36	17.66	17.78	5.0	19.0		
	6	0	17.18	17.37	17.80	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	24.37	24.10	23.90	24.01	0.0	25.0
		1	37	24.25	24.05	23.76	24.03	0.0	25.0
		1	74	24.16	23.96	23.68	23.91	0.0	25.0
		36	0	23.37	23.10	22.92	23.04	1.0	24.0
		36	20	23.34	23.08	22.85	23.07	1.0	24.0
		36	39	23.31	23.07	22.83	23.07	1.0	24.0
		75	0	23.31	23.07	22.87	23.13	1.0	24.0
	16QAM	1	0	23.42	23.39	23.04	23.21	1.0	24.0
		1	37	23.39	23.38	22.96	23.17	1.0	24.0
		1	74	23.29	23.21	22.84	23.04	1.0	24.0
		36	0	22.38	22.13	21.93	22.06	2.0	23.0
		36	20	22.34	22.10	21.86	22.09	2.0	23.0
		36	39	22.31	22.10	21.84	22.07	2.0	23.0
		75	0	22.34	22.11	21.87	22.11	2.0	23.0
	64QAM	1	0	22.54	22.32	22.05	22.14	2.0	23.0
		1	37	22.50	22.27	21.99	22.12	2.0	23.0
		1	74	22.38	22.11	21.91	22.02	2.0	23.0
		36	0	21.35	21.14	20.92	21.05	3.0	22.0
		36	20	21.31	21.09	20.87	21.11	3.0	22.0
		36	39	21.31	21.06	20.86	21.08	3.0	22.0
		75	0	21.34	21.08	20.89	21.12	3.0	22.0
	256QAM	1	0	19.48	19.26	19.07	19.18	5.0	20.0
		1	37	19.35	19.19	18.96	19.20	5.0	20.0
		1	74	19.41	19.24	18.98	19.21	5.0	20.0
		36	0	19.37	19.14	18.94	19.06	5.0	20.0
		36	20	19.35	19.10	18.88	19.11	5.0	20.0
		36	39	19.32	19.06	18.85	19.07	5.0	20.0
		75	0	19.35	19.12	18.90	19.14	5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
				26740	26790	26865	26990		
				819 MHz	824 MHz	831.5 MHz	844 MHz		
				10 MHz	QPSK	1	0	24.19	24.25
1	25	24.20	24.25			24.07	23.99	0.0	25.0
1	49	24.08	24.13			23.98	23.91	0.0	25.0
25	0	23.19	23.25			23.00	22.89	1.0	24.0
25	12	23.16	23.25			23.07	22.96	1.0	24.0
25	25	23.15	23.22			23.02	22.94	1.0	24.0
50	0	23.16	23.21			23.09	22.94	1.0	24.0
16QAM	1	0	23.36		23.62	23.23	23.15	1.0	24.0
	1	25	23.35		23.60	23.25	23.10	1.0	24.0
	1	49	23.20		23.51	23.15	23.00	1.0	24.0
	25	0	22.19		22.29	21.99	21.90	2.0	23.0
	25	12	22.17		22.26	22.09	21.98	2.0	23.0
	25	25	22.16		22.23	22.05	21.93	2.0	23.0
	50	0	22.16		22.25	22.05	21.95	2.0	23.0
64QAM	1	0	22.49		22.46	22.27	22.90	2.0	23.0
	1	25	22.45		22.44	22.27	22.07	2.0	23.0
	1	49	22.37		22.35	22.18	22.06	2.0	23.0
	25	0	21.20		21.23	20.99	20.88	3.0	22.0
	25	12	21.22		21.28	21.07	20.91	3.0	22.0
	25	25	21.16		21.22	21.07	20.90	3.0	22.0
	50	0	21.22		21.21	21.08	20.84	3.0	22.0
256QAM	1	0	19.27		19.39	19.15	19.01	5.0	20.0
	1	25	19.37		19.38	19.24	19.10	5.0	20.0
	1	49	19.27		19.35	19.17	19.08	5.0	20.0
	25	0	19.22		19.25	19.00	18.89	5.0	20.0
	25	12	19.23		19.25	19.06	18.87	5.0	20.0
	25	25	19.18		19.23	19.05	18.88	5.0	20.0
	50	0	19.19		19.24	19.06	18.86	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	24.21	24.20	24.06	23.93	0.0	25.0
		1	12	24.26	24.24	24.08	23.97	0.0	25.0
		1	24	24.17	24.15	24.02	23.92	0.0	25.0
		12	0	23.20	23.20	23.01	22.81	1.0	24.0
		12	7	23.23	23.23	23.12	22.95	1.0	24.0
		12	13	23.20	23.19	23.09	22.93	1.0	24.0
		25	0	23.19	23.19	23.07	22.92	1.0	24.0
	16QAM	1	0	23.28	23.71	23.17	23.10	1.0	24.0
		1	12	23.32	23.79	23.29	23.21	1.0	24.0
		1	24	23.21	23.60	23.21	23.16	1.0	24.0
		12	0	22.14	22.22	22.07	21.84	2.0	23.0
		12	7	22.16	22.23	22.22	21.99	2.0	23.0
		12	13	22.16	22.21	22.15	21.94	2.0	23.0
		25	0	22.21	22.24	22.05	21.93	2.0	23.0
	64QAM	1	0	22.29	22.34	22.19	22.06	2.0	23.0
		1	12	22.32	22.36	22.25	22.11	2.0	23.0
		1	24	22.24	22.31	22.20	22.05	2.0	23.0
		12	0	21.22	21.25	20.99	20.83	3.0	22.0
		12	7	21.25	21.28	21.13	20.95	3.0	22.0
		12	13	21.22	21.25	21.07	20.93	3.0	22.0
		25	0	21.18	21.23	21.07	20.93	3.0	22.0
	256QAM	1	0	19.30	19.40	19.07	19.05	5.0	20.0
		1	12	19.36	19.45	19.21	19.18	5.0	20.0
		1	24	19.27	19.36	19.11	19.13	5.0	20.0
12		0	19.18	19.23	19.02	18.85	5.0	20.0	
12		7	19.25	19.25	19.13	18.97	5.0	20.0	
12		13	19.19	19.23	19.10	18.92	5.0	20.0	
25		0	19.20	19.19	19.06	18.93	5.0	20.0	
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
				26705	26790	26865	27025		
				815.5 MHz	824 MHz	831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	24.21	24.19	24.05	23.92	0.0	25.0
		1	8	24.23	24.24	24.10	24.00	0.0	25.0
		1	14	24.14	24.16	23.99	23.86	0.0	25.0
		8	0	23.19	23.23	23.08	22.83	1.0	24.0
		8	4	23.24	23.23	23.09	22.88	1.0	24.0
		8	7	23.21	23.23	23.09	22.97	1.0	24.0
		15	0	23.20	23.21	23.04	22.85	1.0	24.0
	16QAM	1	0	23.39	23.51	23.25	23.08	1.0	24.0
		1	8	23.37	23.62	23.29	23.16	1.0	24.0
		1	14	23.29	23.46	23.13	23.04	1.0	24.0
		8	0	22.22	22.29	22.13	21.88	2.0	23.0
		8	4	22.29	22.30	22.18	21.92	2.0	23.0
		8	7	22.25	22.33	22.17	22.02	2.0	23.0
		15	0	22.19	22.29	22.07	21.88	2.0	23.0
	64QAM	1	0	22.42	22.38	22.21	22.07	2.0	23.0
		1	8	22.49	22.45	22.30	22.16	2.0	23.0
		1	14	22.38	22.35	22.19	22.10	2.0	23.0
		8	0	21.19	21.22	21.12	20.86	3.0	22.0
		8	4	21.25	21.30	21.14	20.89	3.0	22.0
		8	7	21.19	21.27	21.12	20.96	3.0	22.0
		15	0	21.17	21.22	21.07	20.84	3.0	22.0
	256QAM	1	0	19.22	19.25	19.18	18.94	5.0	20.0
		1	8	19.35	19.37	19.27	19.09	5.0	20.0
		1	14	19.21	19.31	19.18	18.97	5.0	20.0
8		0	19.22	19.28	19.06	18.83	5.0	20.0	
8		4	19.28	19.23	19.09	18.88	5.0	20.0	
8		7	19.24	19.25	19.06	18.95	5.0	20.0	
15		0	19.21	19.23	19.06	18.84	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	24.19	24.20	24.03	23.89	0.0	25.0
		1	3	24.21	24.19	24.09	23.93	0.0	25.0
		1	5	24.19	24.17	24.05	23.89	0.0	25.0
		3	0	24.18	24.18	24.07	23.91	0.0	25.0
		3	1	24.21	24.20	24.05	23.89	0.0	25.0
		3	3	24.21	24.18	24.04	23.92	0.0	25.0
		6	0	22.69	22.65	22.52	22.35	1.0	24.0
	16QAM	1	0	23.32	23.38	23.29	23.10	1.0	24.0
		1	3	23.28	23.47	23.26	23.07	1.0	24.0
		1	5	23.26	23.36	23.21	23.06	1.0	24.0
		3	0	23.25	23.34	23.11	23.00	1.0	24.0
		3	1	23.31	23.37	23.15	23.01	1.0	24.0
		3	3	23.26	23.35	23.14	23.01	1.0	24.0
	64QAM	6	0	22.21	22.21	21.96	21.85	2.0	23.0
		1	0	22.30	22.32	22.23	22.17	2.0	23.0
		1	3	22.30	22.34	22.25	22.16	2.0	23.0
		1	5	22.26	22.29	22.22	22.15	2.0	23.0
		3	0	22.28	22.28	22.13	21.97	2.0	23.0
		3	1	22.29	22.29	22.12	21.99	2.0	23.0
	256QAM	3	3	22.28	22.29	22.13	21.99	2.0	23.0
		6	0	21.11	21.23	21.07	20.88	3.0	22.0
		1	0	19.31	19.33	19.17	18.97	5.0	20.0
		1	3	19.32	19.35	19.21	19.00	5.0	20.0
		1	5	19.31	19.28	19.17	18.99	5.0	20.0
		3	0	19.21	19.18	19.08	18.91	5.0	20.0
		3	1	19.20	19.18	19.09	18.88	5.0	20.0
	3	3	19.21	19.23	19.09	18.91	5.0	20.0	
			6	0	19.16	19.25	18.95	18.99	5.0

**LTE Band 41(PC2)**

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				39750	40620	41490		
				2506 MHz	2593 MHz	2680 MHz		
20 MHz	QPSK	1	0	25.21	24.98	25.13	0.0	26.5
		1	49	25.18	25.07	24.74	0.0	26.5
		1	99	25.22	25.23	24.45	0.0	26.5
		50	0	24.22	24.05	24.09	1.0	25.5
		50	24	24.33	24.16	24.01	1.0	25.5
		50	50	24.29	24.20	23.79	1.0	25.5
		100	0	24.33	24.13	24.11	1.0	25.5
	16QAM	1	0	24.51	24.46	24.57	1.0	25.5
		1	49	24.55	24.57	24.02	1.0	25.5
		1	99	24.59	24.61	23.83	1.0	25.5
		50	0	23.26	23.06	23.18	2.0	24.5
		50	24	23.36	23.19	23.18	2.0	24.5
		50	50	23.35	23.21	22.97	2.0	24.5
		100	0	23.33	23.12	23.17	2.0	24.5
	64QAM	1	0	23.33	23.28	23.35	2.0	24.5
		1	49	23.47	23.34	23.28	2.0	24.5
		1	99	23.56	23.49	23.35	2.0	24.5
		50	0	22.19	22.02	22.17	3.0	23.5
		50	24	22.32	22.19	22.20	3.0	23.5
		50	50	22.33	22.19	22.15	3.0	23.5
		100	0	22.35	22.15	22.16	3.0	23.5
	256QAM	1	0	20.21	20.07	20.45	5.0	21.5
		1	49	20.28	20.03	20.37	5.0	21.5
		1	99	20.53	20.30	20.36	5.0	21.5
		50	0	20.22	20.03	20.20	5.0	21.5
		50	24	20.32	20.14	20.20	5.0	21.5
		50	50	20.28	20.15	20.17	5.0	21.5
		100	0	20.30	20.11	20.16	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	25.21
1	37	25.22	25.00			24.60	0.0	26.5
1	74	25.24	25.12			24.50	0.0	26.5
36	0	24.22	24.06			24.14	1.0	25.5
36	20	24.29	24.16			23.87	1.0	25.5
36	39	24.26	24.16			23.75	1.0	25.5
75	0	24.28	24.14			23.95	1.0	25.5
16QAM	1	0	24.53		24.35	24.45	1.0	25.5
	1	37	24.43		24.38	24.01	1.0	25.5
	1	74	24.49		24.42	24.00	1.0	25.5
	36	0	23.22		23.10	23.15	2.0	24.5
	36	20	23.28		23.17	23.06	2.0	24.5
	36	39	23.25		23.15	22.95	2.0	24.5
	75	0	23.25		23.14	23.15	2.0	24.5
64QAM	1	0	23.33		23.19	23.27	2.0	24.5
	1	37	23.37		23.28	23.28	2.0	24.5
	1	74	23.28		23.38	23.30	2.0	24.5
	36	0	22.21		22.06	22.16	3.0	23.5
	36	20	22.31		22.17	22.18	3.0	23.5
	36	39	22.27		22.16	22.16	3.0	23.5
	75	0	22.28		22.12	22.16	3.0	23.5
256QAM	1	0	20.11		20.03	20.22	5.0	21.5
	1	37	20.17		20.17	20.30	5.0	21.5
	1	74	20.23		20.22	20.27	5.0	21.5
	36	0	20.15		20.04	20.19	5.0	21.5
	36	20	20.26		20.12	20.18	5.0	21.5
	36	39	20.27		20.15	20.19	5.0	21.5
	75	0	20.29		20.12	20.21	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	25.32	25.17	25.13	0.0	26.5	
		1	25	25.41	25.20	24.49	0.0	26.5	
		1	49	25.35	25.22	24.57	0.0	26.5	
		25	0	24.39	24.21	24.04	1.0	25.5	
		25	12	24.41	24.30	23.83	1.0	25.5	
		25	25	24.39	24.30	23.78	1.0	25.5	
	16QAM	50	0	24.36	24.28	23.91	1.0	25.5	
		1	0	24.61	24.48	24.45	1.0	25.5	
		1	25	24.80	24.49	23.90	1.0	25.5	
		1	49	24.73	24.54	24.00	1.0	25.5	
		25	0	23.40	23.22	23.22	2.0	24.5	
		25	12	23.37	23.35	23.02	2.0	24.5	
	64QAM	25	25	23.37	23.34	23.00	2.0	24.5	
		50	0	23.36	23.24	23.10	2.0	24.5	
		1	0	23.54	23.41	23.16	2.0	24.5	
		1	25	23.60	23.50	23.27	2.0	24.5	
		1	49	23.57	23.49	23.42	2.0	24.5	
		25	0	22.40	22.18	22.25	3.0	23.5	
	256QAM	25	12	22.41	22.32	22.25	3.0	23.5	
		25	25	22.38	22.30	22.29	3.0	23.5	
		50	0	22.35	22.25	22.23	3.0	23.5	
1		0	20.39	20.17	20.36	5.0	21.5		
1		25	20.40	20.35	20.48	5.0	21.5		
1		49	20.43	20.39	20.39	5.0	21.5		
5 MHz	QPSK	25	0	20.34	20.19	20.25	5.0	21.5	
		25	12	20.35	20.33	20.25	5.0	21.5	
		25	25	20.32	20.31	20.26	5.0	21.5	
		50	0	20.36	20.27	20.24	5.0	21.5	
		16QAM	1	0	25.33	25.19	24.83	0.0	26.5
			1	12	25.45	25.31	24.54	0.0	26.5
	1		24	25.37	25.21	24.57	0.0	26.5	
	12		0	24.36	24.22	23.88	1.0	25.5	
	12		7	24.41	24.31	23.80	1.0	25.5	
	12		13	24.38	24.31	23.77	1.0	25.5	
	64QAM		25	0	24.38	24.25	23.82	1.0	25.5
			1	0	24.88	24.61	24.12	1.0	25.5
			1	12	24.88	24.81	23.85	1.0	25.5
			1	24	24.80	24.64	23.89	1.0	25.5
			12	0	23.44	23.25	23.03	2.0	24.5
			12	7	23.46	23.38	22.96	2.0	24.5
	256QAM	12	13	23.44	23.35	22.94	2.0	24.5	
		25	0	23.37	23.29	23.02	2.0	24.5	
		1	0	23.43	23.49	23.46	2.0	24.5	
		1	12	23.53	23.55	23.54	2.0	24.5	
		1	24	23.48	23.51	23.38	2.0	24.5	
12		0	22.34	22.20	22.22	3.0	23.5		
256QAM	12	7	22.35	22.30	22.27	3.0	23.5		
	12	13	22.36	22.27	22.21	3.0	23.5		
	25	0	22.30	22.25	22.20	3.0	23.5		
	1	0	20.40	20.25	20.27	5.0	21.5		
	1	12	20.49	20.47	20.40	5.0	21.5		
	1	24	20.36	20.40	20.31	5.0	21.5		
	12	0	20.30	20.21	20.28	5.0	21.5		
	12	7	20.36	20.33	20.29	5.0	21.5		
	12	13	20.29	20.32	20.21	5.0	21.5		
25	0	20.30	20.23	20.18	5.0	21.5			

**LTE Band 66**

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	22.64	22.50	22.42	0.0	24.0	
		1	49	22.56	22.41	22.41	0.0	24.0	
		1	99	22.56	22.41	22.35	0.0	24.0	
		50	0	21.69	21.51	21.44	1.0	23.0	
		50	24	21.66	21.48	21.44	1.0	23.0	
		50	50	21.62	21.46	21.48	1.0	23.0	
	16QAM	100	0	21.66	21.50	21.42	1.0	23.0	
		1	0	21.83	21.59	21.60	1.0	23.0	
		1	49	21.78	21.55	21.64	1.0	23.0	
		1	99	21.71	21.50	21.52	1.0	23.0	
		50	0	20.67	20.49	20.42	2.0	22.0	
		50	24	20.65	20.48	20.42	2.0	22.0	
	64QAM	50	50	20.62	20.47	20.49	2.0	22.0	
		100	0	20.63	20.50	20.43	2.0	22.0	
		1	0	20.91	20.76	20.61	2.0	22.0	
		1	49	20.76	20.64	20.64	2.0	22.0	
		1	99	20.69	20.66	20.52	2.0	22.0	
		50	0	19.66	19.51	19.43	3.0	21.0	
	256QAM	50	24	19.66	19.50	19.44	3.0	21.0	
		50	50	19.63	19.50	19.49	3.0	21.0	
		100	0	19.67	19.49	19.42	3.0	21.0	
		1	0	17.73	17.69	17.62	5.0	19.0	
		1	49	17.58	17.65	17.66	5.0	19.0	
		1	99	17.66	17.59	17.70	5.0	19.0	
	15 MHz	QPSK	50	0	17.67	17.53	17.47	5.0	19.0
			50	50	17.62	17.48	17.50	5.0	19.0
			100	0	17.65	17.52	17.42	5.0	19.0
			1	0	22.62	22.44	22.42	0.0	24.0
1			37	22.56	22.40	22.46	0.0	24.0	
1			74	22.58	22.45	22.45	0.0	24.0	
16QAM		36	0	21.66	21.47	21.44	1.0	23.0	
		36	20	21.63	21.45	21.44	1.0	23.0	
		36	39	21.60	21.46	21.51	1.0	23.0	
		75	0	21.61	21.48	21.46	1.0	23.0	
		1	0	21.76	21.58	21.57	1.0	23.0	
		1	37	21.72	21.57	21.61	1.0	23.0	
64QAM		1	74	21.75	21.62	21.59	1.0	23.0	
		36	0	20.64	20.48	20.45	2.0	22.0	
		36	20	20.62	20.47	20.44	2.0	22.0	
		36	39	20.61	20.45	20.53	2.0	22.0	
		75	0	20.60	20.47	20.45	2.0	22.0	
		1	0	20.71	20.47	20.61	2.0	22.0	
256QAM		1	37	20.69	20.48	20.68	2.0	22.0	
		1	74	20.70	20.40	20.61	2.0	22.0	
		36	0	19.57	19.37	19.46	3.0	21.0	
		36	20	19.52	19.33	19.47	3.0	21.0	
		36	39	19.52	19.33	19.54	3.0	21.0	
		75	0	19.52	19.32	19.46	3.0	21.0	
256QAM		1	0	17.56	17.49	17.57	5.0	19.0	
		1	37	17.53	17.44	17.64	5.0	19.0	
		1	74	17.53	17.54	17.69	5.0	19.0	
		36	0	17.55	17.42	17.45	5.0	19.0	
	36	20	17.47	17.39	17.44	5.0	19.0		
	36	39	17.54	17.37	17.53	5.0	19.0		
75	0	17.47	17.35	17.47	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	22.76	22.59	22.64	0.0	24.0	
		1	25	22.81	22.64	22.71	0.0	24.0	
		1	49	22.74	22.59	22.65	0.0	24.0	
		25	0	21.77	21.61	21.59	1.0	23.0	
		25	12	21.76	21.64	21.62	1.0	23.0	
		25	25	21.75	21.61	21.66	1.0	23.0	
	16QAM	50	0	21.77	21.60	21.69	1.0	23.0	
		1	0	21.89	21.76	21.78	1.0	23.0	
		1	25	21.96	21.74	21.85	1.0	23.0	
		1	49	21.88	21.71	21.83	1.0	23.0	
		25	0	20.77	20.61	20.61	2.0	22.0	
		25	12	20.77	20.65	20.63	2.0	22.0	
	64QAM	25	25	20.74	20.62	20.68	2.0	22.0	
		50	0	20.78	20.59	20.68	2.0	22.0	
		1	0	20.94	20.76	20.70	2.0	22.0	
		1	25	20.93	20.81	20.81	2.0	22.0	
		1	49	20.89	20.73	20.76	2.0	22.0	
		25	0	19.71	19.56	19.52	3.0	21.0	
	256QAM	25	12	19.72	19.55	19.54	3.0	21.0	
		25	25	19.67	19.51	19.57	3.0	21.0	
		50	0	19.67	19.52	19.57	3.0	21.0	
		1	0	17.80	17.60	17.63	5.0	19.0	
		1	25	17.85	17.62	17.75	5.0	19.0	
		1	49	17.75	17.57	17.70	5.0	19.0	
	5 MHz	QPSK	25	0	17.73	17.56	17.54	5.0	19.0
			25	12	17.77	17.54	17.58	5.0	19.0
			25	25	17.72	17.53	17.64	5.0	19.0
			50	0	17.69	17.48	17.62	5.0	19.0
			1	0	22.76	22.61	22.62	0.0	24.0
			1	12	22.83	22.67	22.77	0.0	24.0
16QAM		1	24	22.74	22.60	22.67	0.0	24.0	
		12	0	21.76	21.59	21.60	1.0	23.0	
		12	7	21.81	21.61	21.73	1.0	23.0	
		12	13	21.76	21.57	21.67	1.0	23.0	
		25	0	21.79	21.60	21.67	1.0	23.0	
		1	0	21.97	21.74	21.73	1.0	23.0	
64QAM		1	12	22.04	21.81	21.84	1.0	23.0	
		1	24	21.94	21.74	21.83	1.0	23.0	
		12	0	20.93	20.55	20.57	2.0	22.0	
		12	7	20.97	20.56	20.70	2.0	22.0	
		12	13	20.95	20.53	20.66	2.0	22.0	
		25	0	20.78	20.62	20.66	2.0	22.0	
256QAM		1	0	20.80	20.72	20.79	2.0	22.0	
		1	12	20.83	20.77	20.88	2.0	22.0	
		1	24	20.77	20.74	20.80	2.0	22.0	
		12	0	19.71	19.59	19.53	3.0	21.0	
		12	7	19.72	19.63	19.65	3.0	21.0	
		12	13	19.72	19.60	19.66	3.0	21.0	
QPSK		25	0	19.69	19.54	19.58	3.0	21.0	
		1	0	17.78	17.60	17.59	5.0	19.0	
		1	12	17.80	17.67	17.80	5.0	19.0	
		1	24	17.73	17.56	17.70	5.0	19.0	
		12	0	17.71	17.59	17.56	5.0	19.0	
		12	7	17.76	17.61	17.66	5.0	19.0	
256QAM	12	13	17.73	17.58	17.64	5.0	19.0		
	25	0	17.73	17.57	17.60	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	22.74	22.54	22.61	0.0	24.0	
		1	8	22.85	22.61	22.74	0.0	24.0	
		1	14	22.75	22.54	22.66	0.0	24.0	
		8	0	21.76	21.58	21.60	1.0	23.0	
		8	4	21.78	21.63	21.62	1.0	23.0	
		8	7	21.78	21.65	21.71	1.0	23.0	
		15	0	21.77	21.57	21.59	1.0	23.0	
	16QAM	1	0	21.90	21.67	21.83	1.0	23.0	
		1	8	22.04	21.78	21.88	1.0	23.0	
		1	14	21.93	21.71	21.82	1.0	23.0	
		8	0	20.79	20.64	20.68	2.0	22.0	
		8	4	20.83	20.69	20.71	2.0	22.0	
		8	7	20.83	20.69	20.77	2.0	22.0	
		15	0	20.79	20.58	20.61	2.0	22.0	
	64QAM	1	0	20.79	20.73	20.61	2.0	22.0	
		1	8	20.94	20.82	20.73	2.0	22.0	
		1	14	20.80	20.71	20.65	2.0	22.0	
		8	0	19.73	19.53	19.53	3.0	21.0	
		8	4	19.77	19.54	19.59	3.0	21.0	
		8	7	19.75	19.55	19.66	3.0	21.0	
		15	0	19.72	19.51	19.54	3.0	21.0	
	256QAM	1	0	17.78	17.56	17.58	5.0	19.0	
		1	8	17.86	17.68	17.75	5.0	19.0	
		1	14	17.76	17.57	17.68	5.0	19.0	
		8	0	17.73	17.53	17.55	5.0	19.0	
		8	4	17.79	17.59	17.59	5.0	19.0	
		8	7	17.80	17.59	17.67	5.0	19.0	
		15	0	17.74	17.54	17.52	5.0	19.0	
	BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					131979	132322	132665		
1710.7 MHz					1745 MHz	1779.3 MHz			
1.4 MHz	QPSK	1	0	22.72	22.57	22.66	0.0	24.0	
		1	3	22.73	22.57	22.69	0.0	24.0	
		1	5	22.73	22.57	22.69	0.0	24.0	
		3	0	22.73	22.58	22.66	1.0	23.0	
		3	1	22.73	22.62	22.67	1.0	23.0	
		3	3	22.70	22.57	22.66	1.0	23.0	
		6	0	21.69	21.56	21.63	1.0	23.0	
	16QAM	1	0	21.79	21.63	21.86	1.0	23.0	
		1	3	22.01	21.69	21.99	1.0	23.0	
		1	5	21.94	21.68	21.84	1.0	23.0	
		3	0	21.87	21.66	21.71	2.0	22.0	
		3	1	21.85	21.69	21.73	2.0	22.0	
		3	3	21.87	21.70	21.72	2.0	22.0	
		6	0	20.66	20.53	20.66	2.0	22.0	
	64QAM	1	0	20.89	20.72	20.86	2.0	22.0	
		1	3	20.88	20.78	20.85	2.0	22.0	
		1	5	20.83	20.70	20.84	2.0	22.0	
		3	0	20.82	20.49	20.70	3.0	21.0	
		3	1	20.87	20.52	20.67	3.0	21.0	
		3	3	20.84	20.49	20.70	3.0	21.0	
		6	0	19.72	19.53	19.63	3.0	21.0	
	256QAM	1	0	17.74	17.65	17.67	5.0	19.0	
		1	3	17.81	17.71	17.71	5.0	19.0	
		1	5	17.79	17.64	17.64	5.0	19.0	
		3	0	17.73	17.57	17.63	5.0	19.0	
		3	1	17.73	17.58	17.62	5.0	19.0	
		3	3	17.72	17.60	17.62	5.0	19.0	
		6	0	17.56	17.63	17.55	5.0	19.0	

**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	24.49	24.74	24.35	0.0	25.0
			1	53	24.32	24.68	24.27	0.0	25.0
			1	104	24.17	24.57	24.20	0.0	25.0
			50	0	23.50	24.33	23.46	0.5	24.5
			50	28	24.45	24.76	24.40	0.0	25.0
			50	56	23.33	24.21	23.36	0.5	24.5
			100	0	23.49	24.30	23.41	0.5	24.5
		QPSK	1	1	24.64	24.85	24.54	0.0	25.0
			1	53	24.50	24.74	24.40	0.0	25.0
			1	104	24.33	24.59	24.42	0.0	25.0
			50	0	23.51	23.87	23.46	1.0	24.0
			50	28	24.43	24.76	24.42	0.0	25.0
			50	56	23.41	23.74	23.34	1.0	24.0
			100	0	23.48	23.84	23.45	1.0	24.0
		16QAM	1	1	23.52	23.86	23.40	1.0	24.0
			1	53	23.40	23.72	23.34	1.0	24.0
1	104		23.29	23.57	23.32	1.0	24.0		
64QAM	1	1	22.26	22.53	22.10	1.5	23.5		
256QAM	1	1	19.63	19.89	19.42	4.5	20.5		
CP-OFDM	QPSK	1	1	23.10	23.34	22.94	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	24.52	24.67	24.31	0.0	25.0
			1	40	24.35	24.59	24.21	0.0	25.0
			1	77	24.29	24.51	24.24	0.0	25.0
			36	0	23.52	23.79	23.44	0.5	24.5
			36	22	24.49	24.73	24.37	0.0	25.0
			36	43	23.42	23.69	23.36	0.5	24.5
			75	0	23.48	23.73	23.39	0.5	24.5
		QPSK	1	1	24.62	24.84	24.46	0.0	25.0
			1	40	24.45	24.65	24.39	0.0	25.0
			1	77	24.40	24.59	24.37	0.0	25.0
			36	0	23.54	23.81	23.46	1.0	24.0
			36	22	24.47	24.73	24.33	0.0	25.0
			36	43	23.44	23.69	23.34	1.0	24.0
			75	0	23.46	23.71	23.39	1.0	24.0
		16QAM	1	1	23.52	23.74	23.32	1.0	24.0
		64QAM	1	1	22.23	22.43	22.12	1.5	23.5
256QAM	1	1	19.70	19.80	19.46	4.5	20.5		
CP-OFDM	QPSK	1	1	23.14	23.25	22.91	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	24.39	24.49	24.09	0.0	25.0
			1	26	24.31	24.46	24.06	0.0	25.0
			1	50	24.20	24.40	24.09	0.0	25.0
			25	0	23.51	23.61	23.23	0.5	24.5
			25	14	24.40	24.58	24.15	0.0	25.0
			25	27	23.33	23.61	23.23	0.5	24.5
			50	0	23.40	23.60	23.21	0.5	24.5
		QPSK	1	1	24.47	24.62	24.20	0.0	25.0
			1	26	24.49	24.58	24.17	0.0	25.0
			1	50	24.29	24.54	24.20	0.0	25.0
			25	0	23.54	23.66	23.27	1.0	24.0
			25	14	24.37	24.64	24.21	0.0	25.0
			25	27	23.37	23.60	23.31	1.0	24.0
50	0	23.41	23.58	23.22	1.0	24.0			
16QAM	1	1	23.43	23.58	23.18	1.0	24.0		
64QAM	1	1	22.14	22.30	21.88	1.5	23.5		
256QAM	1	1	19.48	19.61	19.24	4.5	20.5		
CP-OFDM	QPSK	1	1	22.94	23.01	21.15	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	24.83	24.53	24.56	0.0	25.0
			1	13	24.76	24.47	24.43	0.0	25.0
			1	23	24.72	24.48	24.41	0.0	25.0
			12	0	23.86	23.63	23.61	0.5	24.5
			12	7	24.81	24.58	24.53	0.0	25.0
			12	13	23.84	23.57	23.56	0.5	24.5
			25	0	23.83	23.59	23.56	0.5	24.5
		QPSK	1	1	24.89	24.64	24.66	0.0	25.0
			1	13	24.83	24.58	24.57	0.0	25.0
			1	23	24.87	24.63	24.56	0.0	25.0
			12	0	23.88	23.61	23.57	1.0	24.0
			12	7	24.80	24.54	24.51	0.0	25.0
			12	13	23.83	23.60	23.54	1.0	24.0
		25	0	23.82	23.60	23.55	1.0	24.0	
		16QAM	1	1	23.81	23.57	23.52	1.0	24.0
		64QAM	1	1	22.45	22.34	22.29	1.5	23.5
		256QAM	1	1	19.88	19.64	19.57	4.5	20.5
CP-OFDM	QPSK	1	1	23.27	23.03	23.00	1.5	23.5	

**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	22.28	22.41	22.51	0.0	24.0
			1	53	22.36	22.46	22.58	0.0	24.0
			1	104	22.47	22.49	22.58	0.0	24.0
			50	0	21.40	21.59	21.65	0.5	23.5
			50	28	22.51	22.62	22.71	0.0	24.0
			50	56	21.49	21.60	21.77	0.5	23.5
		100	0	21.52	21.63	21.77	0.5	23.5	
		QPSK	1	1	22.40	22.50	22.64	0.0	24.0
			1	53	22.47	22.56	22.72	0.0	24.0
			1	104	22.51	22.62	22.74	0.0	24.0
			50	0	21.47	21.62	21.69	1.0	23.0
			50	28	22.50	22.64	22.77	0.0	24.0
			50	56	21.50	21.60	21.71	1.0	23.0
		100	0	21.55	21.65	21.77	1.0	23.0	
		16QAM	1	1	21.39	21.45	21.68	1.0	23.0
			1	53	21.15	21.17	21.13	1.0	23.0
	1		104	21.14	21.11	21.16	1.0	23.0	
64QAM	1	1	20.09	20.15	20.31	2.5	21.5		
256QAM	1	1	17.37	17.53	17.64	4.5	19.5		
CP-OFDM	QPSK	1	1	20.84	20.98	21.13	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	22.33	22.72	22.62	0.0	24.0
			1	40	22.35	22.62	22.65	0.0	24.0
			1	77	22.49	22.61	22.69	0.0	24.0
			36	0	21.53	21.78	21.88	0.5	23.5
			36	22	22.51	22.77	22.83	0.0	24.0
			36	43	21.62	21.80	21.83	0.5	23.5
			75	0	21.54	21.75	21.84	0.5	23.5
		QPSK	1	1	22.49	22.84	22.78	0.0	24.0
			1	40	22.48	22.72	22.76	0.0	24.0
			1	77	22.63	22.73	22.87	0.0	24.0
			36	0	21.55	21.79	21.89	1.0	23.0
			36	22	22.54	22.76	22.87	0.0	24.0
			36	43	21.67	21.78	21.84	1.0	23.0
			75	0	21.50	21.76	21.83	1.0	23.0
		16QAM	1	1	21.41	21.79	21.77	1.0	23.0
		64QAM	1	1	20.19	20.48	20.34	2.5	21.5
	256QAM	1	1	17.33	17.65	17.61	4.5	19.5	
CP-OFDM	QPSK	1	1	20.87	21.24	21.14	1.5	22.5	

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	22.20	22.49	22.61	0.0	24.0	
			1	26	22.36	22.56	22.58	0.0	24.0	
			1	50	22.30	22.48	22.61	0.0	24.0	
			25	0	21.45	21.65	21.74	0.5	23.5	
			25	14	22.48	22.68	22.69	0.0	24.0	
			25	27	21.40	21.65	21.74	0.5	23.5	
			50	0	21.43	21.66	21.75	0.5	23.5	
		QPSK	1	1	22.31	22.53	22.73	0.0	24.0	
			1	26	22.41	22.65	22.71	0.0	24.0	
			1	50	22.34	22.60	22.75	0.0	24.0	
			25	0	21.42	21.68	21.75	1.0	23.0	
			25	14	22.46	22.63	22.73	0.0	24.0	
			25	27	21.47	21.64	21.77	1.0	23.0	
		16QAM	1	1	21.26	21.47	21.70	1.0	23.0	
64QAM	1	1	20.02	20.17	20.41	2.5	21.5			
256QAM	1	1	17.21	17.36	17.54	4.5	19.5			
CP-OFDM	QPSK	1	1	20.70	20.91	21.08	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	22.27	22.60	22.55	0.0	24.0	
			1	13	22.34	22.54	22.63	0.0	24.0	
			1	23	22.37	22.57	22.62	0.0	24.0	
			12	0	21.46	21.65	21.72	0.5	23.5	
			12	7	22.40	22.62	22.71	0.0	24.0	
			12	13	21.48	21.66	21.77	0.5	23.5	
			25	0	21.51	21.64	21.78	0.5	23.5	
		QPSK	1	1	22.37	22.70	22.67	0.0	24.0	
			1	13	22.43	22.67	22.80	0.0	24.0	
			1	23	22.48	22.64	22.79	0.0	24.0	
			12	0	21.46	21.66	21.71	1.0	23.0	
			12	7	22.44	22.64	22.78	0.0	24.0	
			12	13	21.45	21.68	21.79	1.0	23.0	
		25	0	21.48	21.63	21.82	1.0	23.0		
		16QAM	1	1	21.37	21.70	21.67	1.0	23.0	
		64QAM	1	1	20.10	20.39	20.35	2.5	21.5	
		256QAM	1	1	17.26	17.60	17.63	4.5	19.5	
		CP-OFDM	QPSK	1	1	20.77	21.05	21.07	1.5	22.5

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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	22.91	22.97	23.18	0.0	25.0
			1	137	22.90	23.17	23.26	0.0	25.0
			1	271	23.18	23.38	23.52	0.0	25.0
			135	0	22.47	22.74	22.78	0.5	24.5
			135	69	23.05	23.27	23.43	0.0	25.0
			135	138	22.67	22.92	22.86	0.5	24.5
			270	0	22.59	22.78	22.90	0.5	24.5
		QPSK	1	1	22.96	23.03	23.19	0.0	25.0
			1	137	22.93	23.11	23.34	0.0	25.0
			1	271	23.36	23.38	23.58	0.0	25.0
			135	0	22.09	22.22	22.33	1.0	24.0
			135	69	23.02	23.24	23.39	0.0	25.0
			135	138	22.17	22.30	22.40	1.0	24.0
			270	0	21.99	22.15	22.30	1.0	24.0
		16QAM	1	1	22.02	22.09	22.28	1.0	24.0
			1	137	22.20	22.41	22.42	1.0	24.0
	1		271	22.39	22.44	22.44	1.0	24.0	
64QAM	1	1	20.63	20.49	20.76	2.5	22.5		
256QAM	1	1	18.46	18.50	18.82	4.5	20.5		
CP-OQDM	QPSK	1	1	21.42	21.49	21.82	1.5	23.5	
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.91	22.97	23.06	0.0	25.0
			1	123	22.95	23.16	23.29	0.0	25.0
			1	243	23.25	23.43	23.54	0.0	25.0
			120	0	22.48	22.64	22.71	0.5	24.5
			120	63	22.92	23.29	23.30	0.0	25.0
			120	125	22.46	22.72	22.91	0.5	24.5
			243	0	22.61	22.77	22.83	0.5	24.5
		QPSK	1	1	22.93	23.07	23.13	0.0	25.0
			1	123	22.99	23.05	23.27	0.0	25.0
			1	243	23.31	23.37	23.51	0.0	25.0
			120	0	22.19	22.29	22.30	1.0	24.0
			120	63	23.03	23.27	23.28	0.0	25.0
			120	125	22.10	22.42	22.27	1.0	24.0
			243	0	21.96	22.23	22.28	1.0	24.0
		16QAM	1	1	22.06	22.43	22.20	1.0	24.0
		64QAM	1	1	20.42	20.74	20.60	2.5	22.5
	256QAM	1	1	18.40	18.47	18.82	4.5	20.5	
CP-OQDM	QPSK	1	1	21.56	21.57	21.86	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	π/2 BPSK	1	1	22.84	22.95	23.32	0.0	25.0
			1	109	22.87	23.13	23.31	0.0	25.0
			1	215	23.20	23.36	23.45	0.0	25.0
			108	0	22.45	22.67	22.90	0.5	24.5
			108	55	23.09	23.26	23.27	0.0	25.0
			108	109	22.57	22.77	22.85	0.5	24.5
			216	0	22.51	22.76	22.89	0.5	24.5
		QPSK	1	1	22.86	23.01	23.37	0.0	25.0
			1	109	22.94	23.21	23.35	0.0	25.0
			1	215	23.29	23.39	23.46	0.0	25.0
			108	0	21.96	22.08	22.38	1.0	24.0
			108	55	23.02	23.17	23.31	0.0	25.0
			108	109	22.11	22.27	22.40	1.0	24.0
	216	0	21.97	22.18	22.37	1.0	24.0		
16QAM	1	1	21.98	22.11	22.27	1.0	24.0		
64QAM	1	1	20.55	20.53	20.64	2.5	22.5		
256QAM	1	1	18.71	18.48	18.85	4.5	20.5		
CP-OFDM	QPSK	1	1	21.50	21.56	21.80	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	π/2 BPSK	1	1	23.42	23.58	23.83	0.0	25.0
			1	95	23.43	23.62	23.71	0.0	25.0
			1	188	23.11	23.12	23.26	0.0	25.0
			90	0	22.97	23.30	23.31	0.5	24.5
			90	50	23.48	23.75	23.84	0.0	25.0
			90	99	22.98	23.28	23.27	0.5	24.5
			180	0	22.96	23.22	23.39	0.5	24.5
		QPSK	1	1	23.41	23.64	23.83	0.0	25.0
			1	95	23.42	23.68	23.69	0.0	25.0
			1	188	22.46	22.74	22.84	0.0	25.0
			90	0	22.50	22.72	22.88	1.0	24.0
			90	50	23.56	23.81	23.84	0.0	25.0
			90	99	22.50	22.81	22.80	1.0	24.0
			180	0	22.62	22.68	22.84	1.0	24.0
		16QAM	1	1	22.51	22.81	22.93	1.0	24.0
		64QAM	1	1	21.44	21.09	21.41	2.5	22.5
		256QAM	1	1	18.99	19.31	19.30	4.5	20.5
		CP-OFDM	QPSK	1	1	22.03	22.15	22.47	1.5

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	22.37	23.23	23.39	0.0	25.0
			1	81	23.03	23.32	23.39	0.0	25.0
			1	160	22.65	23.27	23.47	0.0	25.0
			81	0	22.13	22.84	22.87	0.5	24.5
			81	41	22.95	23.26	23.43	0.0	25.0
			81	81	22.35	23.00	22.97	0.5	24.5
			162	0	22.31	22.79	22.95	0.5	24.5
		QPSK	1	1	22.46	23.21	23.39	0.0	25.0
			1	81	23.03	23.32	23.45	0.0	25.0
			1	160	22.49	23.32	23.48	0.0	25.0
			81	0	21.70	22.44	22.37	1.0	24.0
			81	41	22.98	23.42	23.37	0.0	25.0
			81	81	21.89	22.46	22.61	1.0	24.0
			162	0	21.88	22.41	22.52	1.0	24.0
16QAM	1	1	21.43	22.19	22.20	1.0	24.0		
64QAM	1	1	20.00	20.80	20.93	2.5	22.5		
256QAM	1	1	18.17	18.68	18.72	4.5	20.5		
CP-OFDM	QPSK	1	1	20.85	21.71	22.01	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	22.50	23.21	23.44	0.0	25.0
			1	67	23.05	23.35	23.38	0.0	25.0
			1	131	22.79	23.41	23.47	0.0	25.0
			64	0	22.38	22.74	22.87	0.5	24.5
			64	35	23.00	23.44	23.41	0.0	25.0
			64	69	22.41	22.97	22.99	0.5	24.5
			128	0	22.49	22.82	22.93	0.5	24.5
		QPSK	1	1	22.67	23.25	23.47	0.0	25.0
			1	67	22.95	23.33	23.37	0.0	25.0
			1	131	22.73	23.50	23.57	0.0	25.0
			64	0	21.78	22.32	22.48	1.0	24.0
			64	35	23.17	23.30	23.46	0.0	25.0
			64	69	21.89	22.36	22.54	1.0	24.0
			128	0	21.95	22.38	22.45	1.0	24.0
16QAM	1	1	21.78	22.35	22.42	1.0	24.0		
64QAM	1	1	20.45	20.82	20.94	2.5	22.5		
256QAM	1	1	18.08	18.84	18.94	4.5	20.5		
CP-OFDM	QPSK	1	1	21.18	21.83	21.99	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	23.10	23.25	23.48	0.0	25.0
			1	53	23.07	23.38	23.41	0.0	25.0
			1	104	23.13	23.60	23.75	0.0	25.0
			50	0	22.57	22.77	23.04	0.5	24.5
			50	28	22.96	23.45	23.51	0.0	25.0
			50	56	22.49	23.00	23.13	0.5	24.5
			100	0	22.54	22.88	22.96	0.5	24.5
		QPSK	1	1	23.08	23.19	23.60	0.0	25.0
			1	53	23.02	23.32	23.40	0.0	25.0
			1	104	23.18	23.47	23.78	0.0	25.0
			50	0	22.03	22.33	22.54	1.0	24.0
			50	28	23.07	23.33	23.54	0.0	25.0
			50	56	22.09	22.49	22.68	1.0	24.0
			100	0	22.09	22.42	22.54	1.0	24.0
16QAM	1	1	22.27	22.36	22.49	1.0	24.0		
64QAM	1	1	20.75	20.80	21.03	2.5	22.5		
256QAM	1	1	18.68	18.72	18.88	4.5	20.5		
CP-OFDM	QPSK	1	1	21.65	21.89	21.94	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	23.11	23.25	23.48	0.0	25.0
			1	53	23.03	23.22	23.46	0.0	25.0
			1	104	23.19	23.49	23.71	0.0	25.0
			50	0	22.61	22.77	23.04	0.5	24.5
			50	28	23.08	23.41	23.48	0.0	25.0
			50	56	22.53	23.03	23.20	0.5	24.5
			100	0	22.66	22.87	23.00	0.5	24.5
		QPSK	1	1	23.06	23.16	23.56	0.0	25.0
			1	53	22.99	23.41	23.55	0.0	25.0
			1	104	23.17	23.49	23.87	0.0	25.0
			50	0	22.11	22.33	22.39	1.0	24.0
			50	28	23.14	23.47	23.52	0.0	25.0
			50	56	22.07	22.52	22.59	1.0	24.0
			100	0	22.13	22.39	22.59	1.0	24.0
16QAM	1	1	21.94	22.24	22.54	1.0	24.0		
64QAM	1	1	20.62	20.81	21.10	2.5	22.5		
256QAM	1	1	18.60	18.87	19.17	4.5	20.5		
CP-OFDM	QPSK	1	1	21.65	21.74	22.04	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	23.16	23.31	23.98	0.0	25.0
			1	26	23.03	23.16	24.15	0.0	25.0
			1	49	23.10	23.33	24.07	0.0	25.0
			25	0	22.64	22.78	23.52	0.5	24.5
			25	13	23.02	23.26	24.08	0.0	25.0
			25	26	22.59	22.77	23.67	0.5	24.5
			50	0	22.51	22.75	23.52	0.5	24.5
		QPSK	1	1	23.07	23.28	24.06	0.0	25.0
			1	26	23.04	23.22	24.09	0.0	25.0
			1	49	23.17	23.13	24.09	0.0	25.0
			25	0	22.14	22.26	23.12	1.0	24.0
			25	13	23.08	23.24	23.98	0.0	25.0
			25	26	22.10	22.20	23.13	1.0	24.0
			50	0	22.05	22.25	22.55	1.0	24.0
16QAM	1	1	22.03	22.35	23.14	1.0	24.0		
64QAM	1	1	20.78	20.83	21.62	2.5	22.5		
256QAM	1	1	18.68	18.80	19.44	4.5	20.5		
CP-OFDM	QPSK	1	1	21.61	21.93	22.48	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	2682.48 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.81	22.86	23.63	0.0	25.0
			1	19	22.69	22.89	23.64	0.0	25.0
			1	36	22.77	22.98	23.65	0.0	25.0
			18	0	22.36	22.53	23.19	0.5	24.5
			18	10	22.31	22.41	23.14	0.0	25.0
			18	20	22.26	22.47	23.18	0.5	24.5
			36	0	22.36	22.46	23.20	0.5	24.5
		QPSK	1	1	22.86	22.92	23.66	0.0	25.0
			1	19	22.70	22.81	23.61	0.0	25.0
			1	36	22.76	23.00	23.66	0.0	25.0
			18	0	21.78	21.92	22.68	1.0	24.0
			18	10	21.77	21.95	22.66	0.0	25.0
			18	20	21.81	21.95	22.76	1.0	24.0
			36	0	21.77	21.95	22.73	1.0	24.0
		16QAM	1	1	21.94	21.92	22.68	1.0	24.0
		64QAM	1	1	20.27	20.37	21.04	2.5	22.5
		256QAM	1	1	18.02	18.22	19.05	4.5	20.5
		CP-OFDM	QPSK	1	1	21.44	21.45	22.25	1.5

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	π/2 BPSK	1	1	22.60	22.83	23.08	0.0	25.0
			1	12	22.60	22.88	23.10	0.0	25.0
			1	22	22.60	22.88	23.15	0.0	25.0
			12	0	22.12	22.36	22.65	0.5	24.5
			12	6	22.64	22.92	23.13	0.0	25.0
			12	12	22.21	22.39	22.63	0.5	24.5
			24	0	22.19	22.46	22.58	0.5	24.5
		QPSK	1	1	22.61	22.82	23.05	0.0	25.0
			1	12	22.60	22.82	23.09	0.0	25.0
			1	22	22.64	22.91	23.14	0.0	25.0
			12	0	21.70	21.91	22.09	1.0	24.0
			12	6	22.66	22.88	23.16	0.0	25.0
			12	12	21.66	21.94	22.11	1.0	24.0
		24	0	21.64	21.94	22.13	1.0	24.0	
		16QAM	1	1	21.45	21.67	22.08	1.0	24.0
		64QAM	1	1	20.12	20.37	20.60	2.5	22.5
		256QAM	1	1	18.13	18.28	18.38	4.5	20.5
CP-OFDM	QPSK	1	1	21.14	21.41	21.66	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)				19.5
100 MHz	1	1	509202	518598	528000	MPR	
			2546.01 MHz	2592.99 MHz	2640 MHz		
			18.34	18.26	18.36	0.0	
90 MHz	1	1	508200	518598	528996	MPR	19.5
			2541 MHz	2592.99 MHz	2644.98 MHz		
			18.22	18.24	18.45	0.0	
80 MHz	1	1	507204	518598	529998	MPR	19.5
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			18.23	18.28	18.50	0.0	
70 MHz	1	1	506202	518598	531000	MPR	19.5
			2531.02 MHz	2592.99 MHz	2544.98 MHz		
			18.52	18.28	18.34	0.0	
60 MHz	1	1	505200	518598	531996	MPR	19.5
			2526 MHz	2592.99 MHz	2659.98 MHz		
			18.36	18.36	18.44	0.0	
50 MHz	1	1	504204	518598	532998	MPR	19.5
			2521.01 MHz	2592.99 MHz	2665 MHz		
			18.45	18.44	18.50	0.0	
40 MHz	1	1	503202	518598	534000	MPR	19.5
			2516.01 MHz	2592.99 MHz	2670 MHz		
			18.50	18.42	18.63	0.0	
30 MHz	1	1	502200	518598	534996	MPR	19.5
			2511 MHz	2592.99 MHz	2675.0 MHz		
			18.52	18.46	18.59	0.0	
20 MHz	1	1	501204	518598	535998	MPR	19.5
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			18.42	18.14	18.45	0.0	
15 MHz	1	1	500700	518598	536496	MPR	19.5
			2503.5 MHz	2592.99 MHz	2682.48 MHz		
			18.97	18.60	18.47	0.0	
10 MHz	1	1	500202	518598	537000	MPR	19.5
			2501.01 MHz	2592.99 MHz	2685 MHz		
			18.97	18.55	18.55	0.0	

**NR Band n41(SRS2)**

BW (MHz)	RB Allocation	RB offset	Maximum Average Power (dBm)				Tune-up Limit
			SRS2			MPR	
			Measured Pwr (dBm)				20.0
100 MHz	1	1	509202	518598	528000	0.0	
			2546.01 MHz	2592.99 MHz	2640 MHz		
			19.03	18.75	18.47		
90 MHz	1	1	508200	518598	528996	0.0	20.0
			2541 MHz	2592.99 MHz	2644.98 MHz		
			19.18	18.85	18.58		
80 MHz	1	1	507204	518598	529998	0.0	20.0
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			19.20	18.86	18.57		
70 MHz	1	1	506202	518598	531000	0.0	20.0
			2531.02 MHz	2592.99 MHz	2544.98 MHz		
			19.15	19.00	19.28		
60 MHz	1	1	505200	518598	531996	0.0	20.0
			2526 MHz	2592.99 MHz	2659.98 MHz		
			19.42	18.99	18.48		
50 MHz	1	1	504204	518598	532998	0.0	20.0
			2521.01 MHz	2592.99 MHz	2665 MHz		
			19.55	19.09	18.53		
40 MHz	1	1	503202	518598	534000	0.0	20.0
			2516.01 MHz	2592.99 MHz	2670 MHz		
			19.67	19.15	18.65		
30 MHz	1	1	502200	518598	534996	0.0	20.0
			2511 MHz	2592.99 MHz	2675.0 MHz		
			19.71	19.20	18.63		
20 MHz	1	1	501204	518598	535998	0.0	20.0
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			19.03	19.04	18.46		
15 MHz	1	1	500700	518598	536496	0.0	20.0
			2503.5 MHz	2592.99 MHz	2682.48 MHz		
			19.24	18.55	17.92		
10 MHz	1	1	500202	518598	537000	0.0	20.0
			2501.01 MHz	2592.99 MHz	2685 MHz		
			19.20	18.43	17.94		

**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		
			17.72	17.83	17.92		
90 MHz	1	1	508200	518598	528996	0.0	19.2
			2541 MHz	2592.99 MHz	2644.98 MHz		
			17.40	17.61	17.85		
80 MHz	1	1	507204	518598	529998	0.0	19.2
			2536.02 MHz	2592.99 MHz	2649.99 MHz		
			17.41	17.59	17.83		
70 MHz	1	1	506202	518598	531000	0.0	19.2
			2531.02 MHz	2592.99 MHz	2544.98 MHz		
			17.47	17.68	17.80		
60 MHz	1	1	506202	518598	531000	0.0	19.2
			2531.02 MHz	2592.99 MHz	2544.98 MHz		
			17.26	17.80	17.81		
50 MHz	1	1	504204	518598	532998	0.0	19.2
			2521.01 MHz	2592.99 MHz	2665 MHz		
			17.51	17.70	17.83		
40 MHz	1	1	503202	518598	534000	0.0	19.2
			2516.01 MHz	2592.99 MHz	2670 MHz		
			17.52	17.77	18.11		
30 MHz	1	1	502200	518598	534996	0.0	19.2
			2511 MHz	2592.99 MHz	2675.0 MHz		
			17.53	17.82	17.96		
20 MHz	1	1	501204	518598	535998	0.0	19.2
			2506.02 MHz	2592.99 MHz	2679.99 MHz		
			17.49	17.73	17.88		
15 MHz	1	1	500700	518598	536496	0.0	19.2
			2503.5 MHz	2592.99 MHz	2682.48 MHz		
			17.51	17.69	17.77		
10 MHz	1	1	500202	518598	537000	0.0	19.2
			2501.01 MHz	2592.99 MHz	2685 MHz		
			17.38	17.57	17.79		

**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	22.65	22.71	22.78	0.0	24.0
			1	53	22.75	22.70	22.67	0.0	24.0
			1	104	22.82	22.80	22.85	0.0	24.0
			50	0	21.88	21.83	21.87	0.5	23.5
			50	28	22.91	22.94	22.87	0.0	24.0
			50	56	22.54	22.49	22.54	0.5	23.5
			100	0	22.45	22.42	22.50	0.5	23.5
		QPSK	1	1	22.94	22.86	22.93	0.0	24.0
			1	53	22.82	22.82	22.77	0.0	24.0
			1	104	22.90	22.94	22.95	0.0	24.0
			50	0	21.90	21.88	21.85	1.0	23.0
			50	28	22.93	22.83	22.94	0.0	24.0
			50	56	21.94	21.89	21.85	1.0	23.0
			100	0	21.93	21.87	21.87	1.0	23.0
		16QAM	1	1	21.76	21.87	21.81	1.0	23.0
			1	53	21.55	21.25	21.15	1.0	23.0
			1	104	21.43	21.35	21.22	1.0	23.0
		64QAM	1	1	20.48	20.51	20.52	2.5	21.5
256QAM	1	1	17.70	17.71	17.74	4.5	19.5		
CP-OFDM	QPSK	1	1	21.34	21.30	21.31	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	22.91	22.84	22.80	0.0	24.0
			1	40	22.83	22.78	22.86	0.0	24.0
			1	77	22.95	22.93	22.90	0.0	24.0
			36	0	21.99	21.95	21.92	0.5	23.5
			36	22	22.99	22.93	22.97	0.0	24.0
			36	43	22.03	22.01	22.01	0.5	23.5
			75	0	22.03	21.99	21.99	0.5	23.5
		QPSK	1	1	23.00	22.97	22.92	0.0	24.0
			1	40	22.96	22.92	22.94	0.0	24.0
			1	77	23.07	22.96	23.05	0.0	24.0
			36	0	22.00	21.98	21.98	1.0	23.0
			36	22	23.00	22.94	23.03	0.0	24.0
			36	43	22.06	22.00	22.02	1.0	23.0
			75	0	22.07	21.97	22.05	1.0	23.0
		16QAM	1	1	21.93	21.94	21.87	1.0	23.0
		64QAM	1	1	20.66	20.60	20.61	2.5	21.5
		256QAM	1	1	17.86	17.76	17.77	4.5	19.5
		CP-OFDM	QPSK	1	1	21.39	21.35	21.36	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	22.72	22.82	22.81	0.0	24.0
			1	26	22.73	22.82	22.86	0.0	24.0
			1	50	22.76	22.83	22.78	0.0	24.0
			25	0	21.76	21.89	21.89	0.5	23.5
			25	14	22.84	22.93	22.92	0.0	24.0
			25	27	21.84	21.92	21.92	0.5	23.5
			50	0	21.79	21.86	21.90	0.5	23.5
		QPSK	1	1	22.77	22.90	22.91	0.0	24.0
			1	26	22.79	22.92	22.94	0.0	24.0
			1	50	22.83	22.91	22.92	0.0	24.0
			25	0	21.79	21.86	21.90	1.0	23.0
			25	14	22.80	22.90	22.93	0.0	24.0
			25	27	21.82	21.90	21.94	1.0	23.0
		50	0	21.77	21.86	21.92	1.0	23.0	
16QAM	1	1	21.77	21.88	21.86	1.0	23.0		
64QAM	1	1	20.48	20.60	20.60	2.5	21.5		
256QAM	1	1	17.60	17.74	17.80	4.5	19.5		
CP-OFDM	QPSK	1	1	21.19	21.22	21.30	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	22.70	22.79	22.77	0.0	24.0
			1	13	22.76	22.85	22.81	0.0	24.0
			1	23	22.73	22.78	22.79	0.0	24.0
			12	0	21.76	21.90	21.93	0.5	23.5
			12	7	22.83	22.89	22.90	0.0	24.0
			12	13	21.78	21.93	21.91	0.5	23.5
			25	0	21.79	21.87	21.91	0.5	23.5
		QPSK	1	1	22.82	22.88	22.91	0.0	24.0
			1	13	22.81	22.90	22.95	0.0	24.0
			1	23	22.80	22.89	22.92	0.0	24.0
			12	0	21.76	21.85	21.92	1.0	23.0
			12	7	22.78	22.86	22.89	0.0	24.0
			12	13	21.81	21.93	21.93	1.0	23.0
		25	0	21.84	21.85	21.95	1.0	23.0	
16QAM	1	1	21.76	21.88	21.80	1.0	23.0		
64QAM	1	1	20.46	20.54	20.59	2.5	21.5		
256QAM	1	1	17.66	17.70	17.78	4.5	19.5		
CP-OFDM	QPSK	1	1	21.19	21.25	21.29	1.5	22.5	

**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	23.51	23.35	23.20	0.0	24.0	
			1	53	23.46	23.36	23.23	0.0	24.0	
			1	104	23.56	23.43	23.28	0.0	24.0	
			50	0	22.69	22.48	22.41	0.5	23.5	
			50	28	23.67	23.49	23.36	0.0	24.0	
			50	56	22.68	22.51	22.37	0.5	23.5	
			100	0	22.69	22.53	22.41	0.5	23.5	
		QPSK	1	1	23.58	23.35	23.26	0.0	24.0	
			1	53	23.55	23.31	23.19	0.0	24.0	
			1	104	23.57	23.41	23.30	0.0	24.0	
			50	0	22.77	22.55	22.37	1.0	23.0	
			50	28	23.68	23.47	23.40	0.0	24.0	
			50	56	22.69	22.54	22.41	1.0	23.0	
			100	0	22.73	22.47	22.38	1.0	23.0	
		16QAM	1	1	22.77	22.50	22.42	1.0	23.0	
			1	53	22.65	22.47	22.37	1.0	23.0	
			1	104	22.71	22.55	22.48	1.0	23.0	
		64QAM	1	1	21.08	20.90	20.78	2.5	21.5	
		256QAM	1	1	18.77	18.55	18.51	4.5	19.5	
	CP-OFDM	QPSK	1	1	22.10	21.95	21.81	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	23.58	23.33	23.20	0.0	24.0	
			1	40	23.49	23.33	23.22	0.0	24.0	
			1	77	23.47	23.42	23.27	0.0	24.0	
			36	0	22.66	22.50	22.39	0.5	23.5	
			36	22	23.61	23.45	23.40	0.0	24.0	
			36	43	22.64	22.50	22.43	0.5	23.5	
			75	0	22.63	22.50	22.39	0.5	23.5	
		QPSK	1	1	23.67	23.35	23.27	0.0	24.0	
			1	40	23.63	23.30	23.17	0.0	24.0	
			1	77	23.61	23.37	23.30	0.0	24.0	
			36	0	22.65	22.52	22.44	1.0	23.0	
			36	22	23.65	23.48	23.43	0.0	24.0	
			36	43	22.67	22.51	22.39	1.0	23.0	
			75	0	22.67	22.53	22.45	1.0	23.0	
		16QAM	1	1	22.52	22.53	22.39	1.0	23.0	
		64QAM	1	1	21.31	20.90	20.79	2.5	21.5	
		256QAM	1	1	18.76	18.62	18.56	4.5	19.5	
		CP-OFDM	QPSK	1	1	22.14	22.00	21.83	1.5	22.5

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	23.48	23.25	23.16	0.0	24.0	
			1	26	23.58	23.90	23.13	0.0	24.0	
			1	50	23.45	23.36	23.15	0.0	24.0	
			25	0	22.97	22.63	22.22	0.5	23.5	
			25	14	23.88	23.84	23.23	0.0	24.0	
			25	27	22.95	22.81	22.27	0.5	23.5	
			50	0	23.02	22.85	22.31	0.5	23.5	
		QPSK	1	1	23.55	23.30	23.29	0.0	24.0	
			1	26	23.92	23.88	23.29	0.0	24.0	
			1	50	23.49	23.47	23.28	0.0	24.0	
			25	0	22.98	22.72	22.28	1.0	23.0	
			25	14	23.92	23.84	23.27	0.0	24.0	
			25	27	22.98	22.83	22.30	1.0	23.0	
			50	0	22.96	22.81	22.30	1.0	23.0	
16QAM	1	1	22.72	22.18	22.16	1.0	23.0			
64QAM	1	1	21.07	20.95	21.00	2.5	21.5			
256QAM	1	1	18.65	18.52	18.50	4.5	19.5			
CP-OFDM	QPSK	1	1	22.02	21.80	21.64	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	23.84	23.22	23.02	0.0	24.0	
			1	13	23.85	23.26	23.13	0.0	24.0	
			1	23	23.90	23.15	23.11	0.0	24.0	
			12	0	23.06	22.43	22.16	0.5	23.5	
			12	7	23.21	23.27	23.21	0.0	24.0	
			12	13	23.05	22.24	22.20	0.5	23.5	
			25	0	23.07	22.33	22.21	0.5	23.5	
		QPSK	1	1	23.88	23.27	23.21	0.0	24.0	
			1	13	23.89	23.29	23.25	0.0	24.0	
			1	23	23.87	23.24	23.25	0.0	24.0	
			12	0	22.98	22.31	22.28	1.0	23.0	
			12	7	23.88	23.32	23.23	0.0	24.0	
			12	13	22.97	22.31	22.27	1.0	23.0	
			25	0	22.98	22.30	22.29	1.0	23.0	
		16QAM	1	1	22.88	22.25	22.20	1.0	23.0	
		64QAM	1	1	21.47	20.96	20.92	2.5	21.5	
		256QAM	1	1	19.10	18.52	18.54	4.5	19.5	
		CP-OFDM	QPSK	1	1	22.38	21.76	21.65	1.5	22.5

**NR Band n77**

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)							MPR	Tune-up Limit
					Measured Pwr (dBm)								
					633000	633332	633666	649668	656000	662332			
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	3499.98MHz	23.07		23.22	23.57	23.48	0.0	25.5	
			1	137		23.39		23.69	23.63	23.43	0.0	25.5	
			1	271		23.74		23.87	23.37	23.40	0.0	25.5	
			135	0		22.65		23.08	23.31	22.83	0.5	25.0	
			135	69		23.26		23.86	23.71	23.54	0.0	25.5	
			135	138		23.05		23.23	23.22	22.91	0.5	25.0	
		270	0		22.91		23.35	23.17	22.92	0.5	25.0		
		QPSK	1	1		23.09		23.35	23.65	23.50	0.0	25.5	
			1	137		23.11		23.61	23.98	23.38	0.0	25.5	
			1	271		23.48		23.85	23.86	23.56	0.0	25.5	
			135	0		22.06		22.52	22.57	22.31	1.0	24.5	
			135	69		23.30		23.77	23.50	23.37	0.0	25.5	
			135	138		22.52		22.88	22.63	22.14	1.0	24.5	
		270	0		22.23		22.69	22.65	22.38	1.0	24.5		
		16QAM	1	1		22.12		22.57	22.64	22.97	1.0	24.5	
			1	137		22.29		22.77	22.98	22.44	1.0	24.5	
1	271			22.61		22.70	22.53	22.41	1.0	24.5			
64QAM	1	1		20.64		20.72	21.47	20.91	2.5	23.0			
256QAM	1	1		18.55		18.97	19.07	18.77	4.5	21.0			
CP-OFDM	QPSK	1	1		21.58		21.88	22.16	22.01	1.5	24.0		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	3495 MHz	23.07	23.24	23.24	23.63	23.41	23.52	0.0	25.5
			1	123		23.34	23.41	23.21	23.95	23.76	23.25	0.0	25.5
			1	243		23.40	23.43	23.44	23.83	23.46	23.48	0.0	25.5
			120	0		22.63	22.82	22.56	22.98	23.38	22.77	0.5	25.0
			120	63		23.10	23.20	23.25	23.73	23.72	23.21	0.0	25.5
			120	125		22.76	23.08	22.83	23.25	23.35	22.67	0.5	25.0
		243	0		22.86	22.92	22.83	23.18	23.10	22.83	0.5	25.0	
		QPSK	1	1		23.06	23.14	23.14	23.29	23.60	23.48	0.0	25.5
			1	123		23.38	23.08	23.18	23.98	23.81	23.25	0.0	25.5
			1	243		23.38	23.59	23.43	23.84	23.85	23.39	0.0	25.5
			120	0		22.13	22.16	22.04	22.48	22.59	22.21	1.0	24.5
			120	63		23.51	23.18	23.59	23.81	23.93	23.27	0.0	25.5
			120	125		22.25	22.35	22.18	22.77	22.76	22.12	1.0	24.5
		243	0		22.00	22.23	22.49	22.72	22.77	22.17	1.0	24.5	
		16QAM	1	1		22.05	22.09	22.09	22.51	22.44	22.45	1.0	24.5
		64QAM	1	1		20.60	20.71	20.71	21.09	20.99	21.01	2.5	23.0
256QAM	1	1		18.56	18.79	18.79	18.97	18.91	18.94	4.5	21.0		
CP-OFDM	QPSK	1	1		21.53	21.25	21.33	22.07	22.28	21.93	1.5	24.0	
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	3490.02 MHz	23.13	23.03	23.08	23.46	23.80	23.95	0.0	25.5
			1	109		23.35	23.26	23.63	23.81	23.91	23.38	0.0	25.5
			1	215		23.44	23.69	23.70	23.69	23.71	23.37	0.0	25.5
			108	0		22.55	22.70	23.01	23.12	23.27	22.91	0.5	25.0
			108	55		23.25	23.35	23.54	23.89	23.82	23.41	0.0	25.5
			108	109		22.83	22.90	22.99	23.29	23.17	23.25	0.5	25.0
		216	0		22.72	22.98	22.94	23.47	23.43	23.27	0.5	25.0	
		QPSK	1	1		23.04	23.16	23.10	23.77	23.58	23.79	0.0	25.5
			1	109		23.48	23.27	23.74	23.86	23.82	23.31	0.0	25.5
			1	215		23.32	23.67	23.66	23.81	23.85	23.55	0.0	25.5
			108	0		22.18	22.56	22.28	22.89	22.76	22.73	1.0	24.5
			108	55		23.33	23.67	23.59	23.95	23.88	23.59	0.0	25.5
			108	109		22.43	22.40	22.73	22.88	22.68	22.51	1.0	24.5
		216	0		22.46	22.37	22.41	22.72	22.82	22.55	1.0	24.5	
		16QAM	1	1		22.09	22.01	22.10	22.85	22.89	22.74	1.0	24.5
		64QAM	1	1		20.61	20.86	20.87	20.98	21.11	20.95	2.5	23.0
256QAM	1	1		18.59	18.54	18.63	19.11	19.27	19.49	4.5	21.0		
CP-OFDM	QPSK	1	1		21.69	21.53	21.70	21.96	22.11	22.50	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	3735.02 MHz	3840 MHz	3944.98 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.0	23.3	23.6	23.7	24.1	23.5	0.0	25.5
			1	95	23.5	23.7	23.3	23.9	23.8	23.8	0.0	25.5
			1	187	23.1	23.6	23.5	23.8	23.6	23.7	0.0	25.5
			90	0	23.0	23.0	22.6	23.1	23.5	23.1	0.5	25.0
			90	50	23.6	23.1	21.9	23.3	23.4	23.2	0.0	25.5
			90	99	23.1	23.2	23.1	22.9	23.2	23.2	0.5	25.0
		180	0	22.7	22.6	23.2	23.3	23.6	23.2	0.5	25.0	
		QPSK	1	1	23.2	23.3	23.0	23.5	23.7	23.5	0.0	25.5
			1	95	23.4	23.2	23.6	24.1	24.0	23.5	0.0	25.5
			1	187	23.5	23.5	23.0	24.0	23.8	23.2	0.0	25.5
			90	0	22.2	22.1	22.7	22.7	23.0	22.9	1.0	24.5
			90	50	23.6	22.6	22.8	23.0	23.2	23.6	0.0	25.5
			90	99	22.6	22.7	22.2	23.0	22.7	22.5	1.0	24.5
		180	0	22.5	22.5	22.3	22.9	22.9	22.8	1.0	24.5	
16QAM	1	1	21.8	22.4	22.6	22.6	23.0	22.7	1.0	24.5		
64QAM	1	1	20.6	20.7	19.0	21.2	21.3	20.9	2.5	23.0		
256QAM	1	1	18.7	18.8	19.2	19.2	19.4	19.4	4.5	21.0		
CP-OFDM	QPSK	1	1	21.8	20.8	22.1	22.0	22.1	22.4	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					632000	633332	634666	648668	656000	663332		
					3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.28	23.41	23.87	23.75	23.27	23.32	0.0	25.5
			1	81	23.65	23.90	23.90	23.92	23.84	23.82	0.0	25.5
			1	160	23.98	24.00	23.67	23.93	23.26	23.35	0.0	25.5
			81	0	23.14	23.45	23.73	23.52	23.36	23.01	0.5	25.0
			81	41	23.78	23.78	23.98	23.96	23.91	23.48	0.0	25.5
			81	81	23.46	23.35	23.49	23.55	23.27	23.36	0.5	25.0
		162	0	23.16	23.47	23.58	23.48	23.33	23.19	0.5	25.0	
		QPSK	1	1	23.41	23.44	23.82	23.74	23.62	23.18	0.0	25.5
			1	81	23.81	23.93	24.11	23.86	24.02	23.72	0.0	25.5
			1	160	23.79	24.01	24.03	23.96	23.36	23.12	0.0	25.5
			81	0	22.58	22.93	22.97	22.71	22.81	22.65	1.0	24.5
			81	41	23.91	24.09	23.80	23.94	24.08	23.65	0.0	25.5
			81	81	22.97	22.84	22.88	23.06	23.01	22.70	1.0	24.5
		162	0	22.66	22.99	22.86	23.17	22.84	22.83	1.0	24.5	
16QAM	1	1	22.51	22.69	22.84	22.63	22.33	21.95	1.0	24.5		
64QAM	1	1	21.02	21.01	21.34	21.25	21.13	20.70	2.5	23.0		
256QAM	1	1	18.56	18.89	19.31	19.10	18.93	18.47	4.5	21.0		
CP-OFDM	QPSK	1	1	21.77	22.17	22.32	22.16	22.17	21.69	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					631668	633332	635000	648334	656000	663666		
					3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.3	23.7	23.9	23.7	24.0	23.8	0.0	25.5
			1	67	23.7	23.8	24.0	24.1	24.2	23.8	0.0	25.5
			1	131	23.6	24.0	23.7	23.9	24.2	23.8	0.0	25.5
			64	0	22.8	23.5	23.4	23.3	23.5	23.4	0.5	25.0
			64	35	23.6	23.8	23.9	24.1	24.3	24.0	0.0	25.5
			64	69	23.1	23.4	23.3	23.7	23.7	23.5	0.5	25.0
		128	0	23.1	23.3	23.4	23.5	23.9	23.3	0.5	25.0	
		QPSK	1	1	23.5	24.0	24.1	23.8	24.3	23.7	0.0	25.5
			1	67	23.6	23.9	24.0	23.9	23.9	23.9	0.0	25.5
			1	131	23.9	24.1	23.6	23.9	24.4	24.0	0.0	25.5
			64	0	22.5	22.9	23.1	22.8	23.1	23.1	1.0	24.5
			64	35	23.5	23.8	23.9	23.9	24.4	23.8	0.0	25.5
			64	69	22.8	23.0	22.9	23.1	23.2	22.6	1.0	24.5
		128	0	22.8	22.8	23.1	23.0	23.3	22.8	1.0	24.5	
16QAM	1	1	22.5	22.7	22.9	23.0	22.9	22.7	1.0	24.5		
64QAM	1	1	20.9	21.2	21.6	21.3	21.6	21.3	2.5	23.0		
256QAM	1	1	19.0	19.1	19.4	19.3	19.6	18.9	4.5	21.0		
CP-OFDM	QPSK	1	1	21.7	22.3	22.6	22.3	22.7	22.4	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	23.32	23.96	23.71	23.92	24.21	23.76	0.0	25.5
			1	53	23.57	24.14	23.74	24.09	24.23	24.13	0.0	25.5
			1	104	24.00	24.08	23.48	24.23	24.22	24.02	0.0	25.5
			50	0	23.15	23.68	23.43	23.34	23.63	23.55	0.5	25.0
			50	28	23.73	24.00	23.97	24.05	24.25	23.98	0.0	25.5
			50	56	23.43	23.40	23.37	23.67	23.69	23.61	0.5	25.0
		QPSK	100	0	23.19	23.82	23.28	23.70	23.57	23.51	0.5	25.0
			1	1	23.58	23.92	23.59	24.00	24.27	23.96	0.0	25.5
			1	53	23.68	23.94	23.65	23.96	24.22	24.04	0.0	25.5
			1	104	24.03	24.36	23.31	24.38	24.31	24.16	0.0	25.5
			50	0	22.61	23.01	22.70	22.95	23.16	22.83	1.0	24.5
			50	28	23.83	23.91	23.90	24.21	24.36	24.22	0.0	25.5
		16QAM	50	56	22.85	23.18	22.64	23.13	23.39	23.11	1.0	24.5
			100	0	22.71	22.88	22.74	22.97	23.22	22.98	1.0	24.5
64QAM	1	1	22.81	22.78	22.68	23.07	23.17	22.91	1.0	24.5		
256QAM	1	1	21.26	21.62	21.07	21.49	21.64	21.54	2.5	23.0		
CP-OFDM	256QAM	1	1	18.76	19.28	18.99	19.28	19.67	19.47	4.5	21.0	
CP-OFDM	QPSK	1	1	22.02	22.43	22.21	22.60	22.97	22.46	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	24.73	25.01	25.27	24.66	25.42	25.11	0.0	25.5
			1	39	24.53	24.91	25.02	24.95	25.17	25.22	0.0	25.5
			1	76	24.85	25.02	25.06	25.28	25.51	25.06	0.0	25.5
			36	0	24.38	24.42	24.74	24.38	24.85	24.59	0.5	25.0
			36	21	24.85	25.11	25.12	25.08	25.23	24.90	0.0	25.5
			36	42	24.22	24.71	24.55	24.69	24.73	24.60	0.5	25.0
		QPSK	75	0	24.24	24.75	24.71	24.75	24.94	24.79	0.5	25.0
			1	1	24.44	25.27	25.00	24.96	25.23	24.98	0.0	25.5
			1	39	24.73	25.30	24.83	25.14	25.34	25.21	0.0	25.5
			1	76	24.89	25.14	25.24	25.02	25.47	24.94	0.0	25.5
			36	0	23.94	24.13	23.95	23.70	24.51	23.98	1.0	24.5
			36	21	24.72	25.04	25.06	25.22	25.46	25.13	0.0	25.5
		16QAM	36	42	23.85	24.13	24.04	24.41	24.61	24.01	1.0	24.5
			75	0	23.78	24.09	24.20	24.20	24.27	24.03	1.0	24.5
64QAM	1	1	23.58	24.14	24.46	23.83	24.46	24.14	1.0	24.5		
256QAM	1	1	22.26	23.06	22.81	22.47	22.79	22.59	2.5	23.0		
CP-OFDM	256QAM	1	1	20.11	20.46	20.31	20.59	20.37	20.42	4.5	21.0	
CP-OFDM	QPSK	1	1	23.21	23.85	23.46	23.53	23.85	23.61	1.5	24.0	
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	24.38	25.10	25.15	23.53	23.91	23.66	0.0	25.5
			1	26	24.54	24.90	24.83	23.76	23.94	23.82	0.0	25.5
			1	49	24.71	25.05	25.09	23.97	24.04	23.91	0.0	25.5
			25	0	24.25	24.40	24.73	23.17	23.66	23.48	0.5	25.0
			25	13	24.61	24.99	24.99	23.92	23.95	24.05	0.0	25.5
			25	26	24.19	24.52	24.59	23.33	23.67	23.38	0.5	25.0
		QPSK	50	0	24.34	24.59	24.64	23.39	23.56	23.34	0.5	25.0
			1	1	24.40	25.13	25.29	23.66	24.13	23.59	0.0	25.5
			1	26	24.63	25.03	24.75	23.58	23.94	23.82	0.0	25.5
			1	49	24.94	25.16	24.91	23.67	23.92	23.80	0.0	25.5
			25	0	23.57	24.21	23.87	22.71	23.01	22.63	1.0	24.5
			25	13	24.44	24.98	24.94	23.77	24.15	23.83	0.0	25.5
		16QAM	25	26	23.74	23.86	24.15	23.03	23.00	22.96	1.0	24.5
			50	0	23.46	24.07	23.77	22.87	23.08	22.74	1.0	24.5
64QAM	1	1	23.54	24.19	24.27	22.49	23.06	22.75	1.0	24.5		
256QAM	1	1	21.79	22.61	22.43	21.17	21.75	21.14	2.5	23.0		
CP-OFDM	256QAM	1	1	19.84	20.30	20.33	19.22	19.60	19.28	4.5	21.0	
CP-OFDM	QPSK	1	1	22.99	23.63	23.69	22.13	22.76	22.08	1.5	24.0	

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	23.59	23.99	24.16	23.64	24.15	23.87	0.0	25.5
			1	19	23.82	24.28	24.09	23.93	23.94	23.89	0.0	25.5
			1	36	23.84	24.08	24.28	23.85	24.17	23.88	0.0	25.5
			18	0	23.39	23.84	23.66	23.17	23.44	23.27	0.5	25.0
			18	10	23.24	23.64	23.76	23.39	23.66	23.31	0.0	25.5
			18	20	23.24	23.79	24.03	23.43	23.66	23.23	0.5	25.0
			36	0	23.29	23.72	23.55	23.03	23.69	23.34	0.5	25.0
		QPSK	1	1	23.55	23.99	24.01	23.69	24.26	23.67	0.0	25.5
			1	19	23.85	24.20	23.97	23.79	24.14	23.67	0.0	25.5
			1	36	23.80	24.37	24.40	23.71	23.98	23.75	0.0	25.5
			18	0	22.67	23.27	23.48	22.44	23.26	22.74	1.0	24.5
			18	10	22.89	23.28	23.29	22.59	22.93	22.69	0.0	25.5
		16QAM	18	20	22.83	23.33	23.29	22.68	23.06	23.05	1.0	24.5
			36	0	22.79	23.02	23.34	22.64	23.12	22.79	1.0	24.5
1	1		22.44	23.33	23.28	22.57	23.24	22.83	1.0	24.5		
CP-OFDM	64QAM	1	1	21.20	21.82	21.58	21.26	21.59	21.59	2.5	23.0	
	256QAM	1	1	18.77	19.64	19.57	18.93	19.62	19.43	4.5	21.0	
	QPSK	1	1	22.12	22.82	22.90	22.09	22.43	22.42	1.5	24.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit
					630334	633332	636666	647000	656000	665000		
					3455.01 MHz	3499.98 MHz	3549.99 MHz	3705 MHz	3840 MHz	3975 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.18	23.64	23.62	23.77	23.60	23.73	0.0	25.5
			1	12	23.20	23.57	23.67	23.73	23.56	23.77	0.0	25.5
			1	22	23.10	23.55	23.55	23.84	23.51	23.91	0.0	25.5
			12	0	22.70	23.12	23.00	23.40	23.20	23.48	0.5	25.0
			12	6	23.17	23.56	23.62	23.71	23.61	23.66	0.0	25.5
			12	12	22.71	23.02	23.05	23.35	23.15	23.34	0.5	25.0
			24	0	22.67	23.13	23.28	23.25	23.21	23.39	0.5	25.0
		QPSK	1	1	23.12	23.57	23.57	23.55	23.62	23.73	0.0	25.5
			1	12	23.30	23.75	23.59	23.67	23.69	23.77	0.0	25.5
			1	22	23.27	23.73	23.76	23.67	23.58	23.87	0.0	25.5
			12	0	22.04	22.76	22.79	22.68	22.78	22.64	1.0	24.5
			12	6	23.12	23.65	23.76	23.83	23.45	23.82	0.0	25.5
		16QAM	12	12	22.09	22.48	22.83	22.57	22.53	22.80	1.0	24.5
			24	0	22.42	22.73	22.68	22.81	22.58	22.68	1.0	24.5
1	1		22.19	22.66	22.72	22.67	22.84	22.75	1.0	24.5		
CP-OFDM	64QAM	1	1	20.69	21.08	21.22	21.09	21.30	21.43	2.5	23.0	
	256QAM	1	1	18.39	18.95	18.96	19.25	19.00	19.26	4.5	21.0	
	QPSK	1	1	21.85	21.99	22.34	22.27	21.99	22.26	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	20.0	
			3499.98MHz		3750 MHz	3840 MHz	3930 MHz				
			19.08		19.46	19.06	18.78				
90 MHz	1	1	633000	633332	633666	649666	656000	662332	0.0	20.0	
			3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz			
			19.13	19.11	19.09	19.51	19.05	18.73			
80 MHz	1	1	632668	633332	634000	649334	656000	662666	0.0	20.0	
			3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz			
			19.14	19.12	19.09	19.58	19.11	18.77			
70 MHz	1	1	632334	633332	634332	649000	656000	663000	0.0	20.0	
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz			
			19.21	19.04	19.19	16.71	19.10	18.68			
60 MHz	1	1	632000	633332	634666	648668	656000	663332	0.0	20.0	
			3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz			
			19.24	19.22	19.26	19.86	19.23	18.75			
50 MHz	1	1	631668	633332	635000	648334	656000	663666	0.0	20.0	
			3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz			
			19.11	19.06	19.14	19.73	19.22	19.00			
40 MHz	1	1	631334	633332	635332	648000	656000	664000	0.0	20.0	
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz			
			19.25	19.34	19.40	19.90	19.35	18.95			
30 MHz	1	1	631000	633332	635668	647668	656000	664332	0.0	20.0	
			3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz			
			19.31	19.33	19.40	19.97	19.42	18.96			
20 MHz	1	1	630668	633332	636000	647334	656000	664666	0.0	20.0	
			3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz			
			19.11	19.18	19.17	19.74	19.31	18.97			
15 MHz	1	1	630500	633332	636168	647168	656000	664832	0.0	20.0	
			3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz			
			19.20	19.21	19.37	19.79	19.34	18.95			
10 MHz	1	1	630334	633332	636666	647000	656000	665000	0.0	20.0	
			3455.01 MHz	3499.98 MHz	3549.99 MHz	3705 MHz	3840 MHz	3975 MHz			
			19.04	19.12	19.34	19.58	19.21	18.96			

**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				
			20.60		19.70	19.33	19.73				
90 MHz	1	1	633000	633332	633666	649666	656000	662332	0.0	21.5	
			3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz			
			20.30	20.30	20.45	19.01	19.16	19.83			
80 MHz	1	1	632668	633332	634000	649334	656000	662666	0.0	21.5	
			3490.02 MHz	3499.98MHz	3510 MHz	3740.01 MHz	3840 MHz	3939.99 MHz			
			20.38	20.35	20.37	19.14	19.07	19.84			
70 MHz	1	1	632334	633332	634332	649000	656000	663000	0.0	21.5	
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz			
			20.42	20.40	20.46	19.17	19.33	19.80			
60 MHz	1	1	632000	633332	634666	648668	656000	663332	0.0	21.5	
			3480 MHz	3499.98MHz	3519.99 MHz	3730.02 MHz	3840 MHz	3949.98 MHz			
			20.47	20.37	20.42	19.14	19.41	19.97			
50 MHz	1	1	631668	633332	635000	648334	656000	663666	0.0	21.5	
			3475.02 MHz	3499.98MHz	3525 MHz	3725.01 MHz	3840 MHz	3954.99 MHz			
			20.46	20.32	20.69	19.11	19.46	20.15			
40 MHz	1	1	631334	633332	635332	648000	656000	664000	0.0	21.5	
			3470.01 MHz	3499.98MHz	3529.98 MHz	3720.02 MHz	3840 MHz	3960 MHz			
			20.66	20.72	20.69	19.29	19.50	20.24			
30 MHz	1	1	631000	633332	635668	647668	656000	664332	0.0	21.5	
			3465 MHz	3499.98MHz	3535.02 MHz	3715.02 MHz	3840 MHz	3964.98 MHz			
			20.61	20.75	20.58	19.35	19.54	20.27			
20 MHz	1	1	630668	633332	636000	647334	656000	664666	0.0	21.5	
			3460.02 MHz	3499.98MHz	3540 MHz	3710.01 MHz	3840 MHz	3969.99 MHz			
			20.72	20.58	20.55	19.35	19.52	20.12			
15 MHz	1	1	630500	633332	636168	647168	656000	664832	0.0	21.5	
			3457.5 MHz	3499.98MHz	3542.52 MHz	3709.52 MHz	3840 MHz	3972.48 MHz			
			20.57	20.45	20.52	19.17	19.35	20.03			
10 MHz	1	1	630334	633332	636666	647000	656000	665000	0.0	21.5	
			3455.01 MHz	3499.98 MHz	3549.99 MHz	3705 MHz	3840 MHz	3975 MHz			
			20.36	20.35	20.33	19.12	19.25	20.04			

**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	20.0
			3499.98MHz		3750 MHz	3840 MHz	3930 MHz				
			19.29		18.80	18.42	18.11				
90 MHz	1	1	633000	633332	633666	649666	656000	662332		0.0	
			3495MHz	3499.98MHz	3504.99MHz	3744.99MHz	3840 MHz	3934.98MHz			
			19.42	19.40	19.45	18.94	18.49	18.07			
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			
			19.27	19.25	19.35	18.90	18.39	18.04			
70 MHz	1	1	632334	633332	634332	649000	656000	663000		0.0	
			3485.01 MHz	3499.98MHz	3514.98 MHz	3735MHz	3840 MHz	3945MHz			
			19.25	19.27	19.32	19.01	18.41	17.94			
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			
			19.28	19.21	19.34	19.01	18.53	17.94			
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			
			19.21	19.25	19.25	18.99	18.43	18.26			
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			
			19.47	19.54	19.58	19.25	18.70	18.24			
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			
			19.46	19.53	19.57	19.19	18.68	18.24			
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			
			19.37	19.43	19.45	18.93	18.59	18.18			
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			
			19.31	19.38	19.53	18.94	18.55	18.09			
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			
			19.24	19.30	19.35	19.02	18.61	18.18			

## 8.2. PEAK TO AVERAGE RATIO

### Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

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

### Test Spec

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

### NOTE

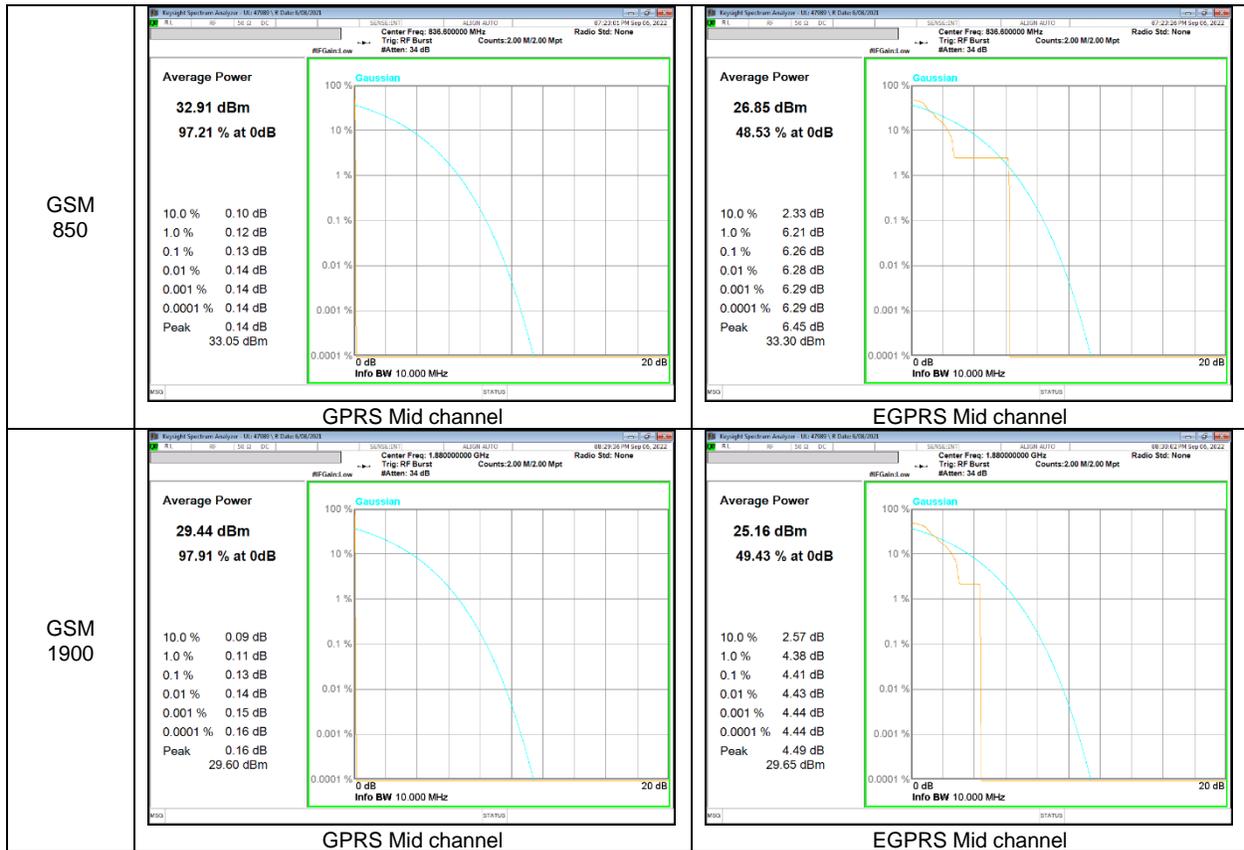
5G NR: All Waveforms (CP-OFDM vs DFT-s\_OFDM) and modulations ( $\pi/2$  BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

### RESULTS

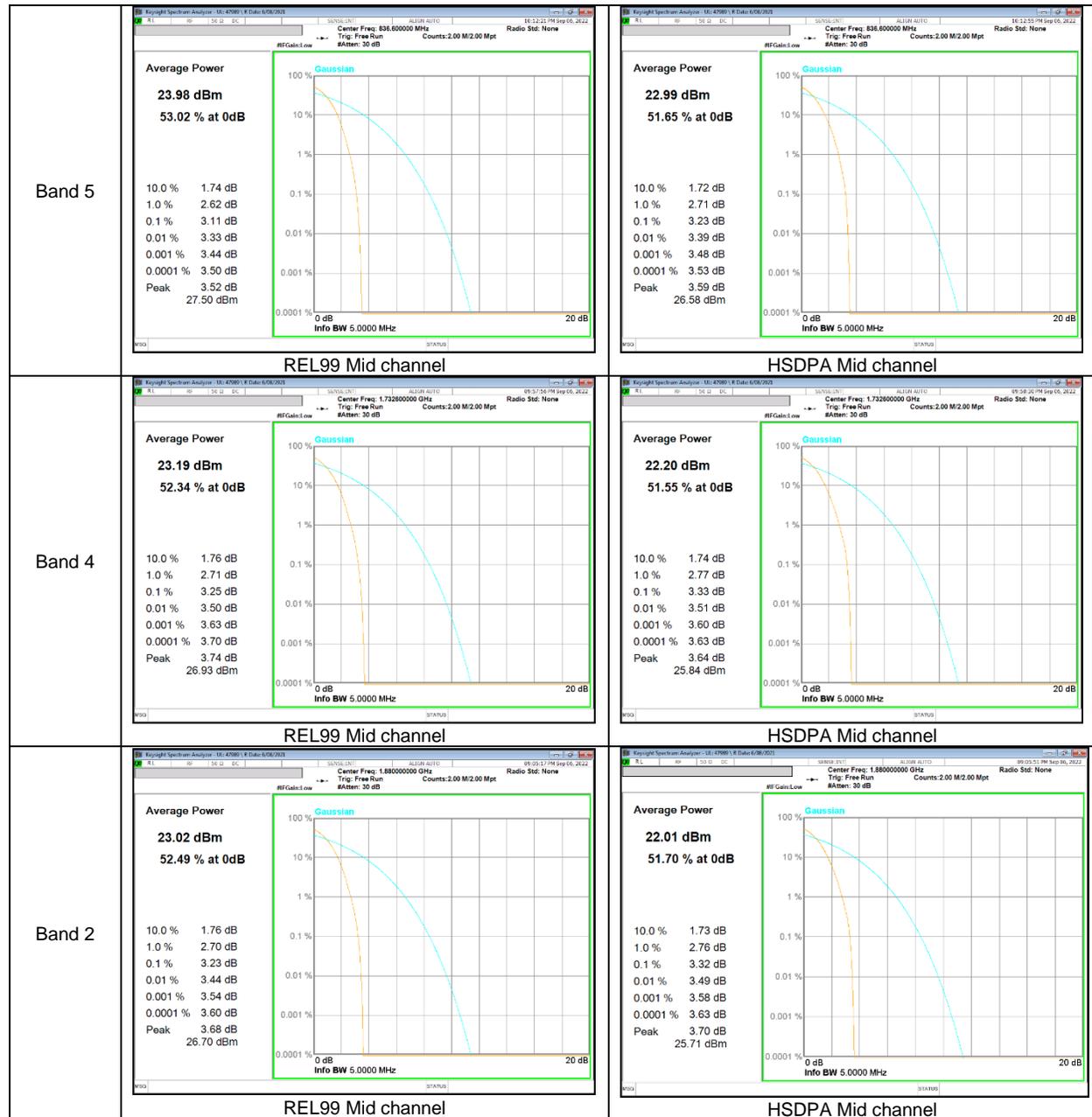
See the following pages.

### 8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

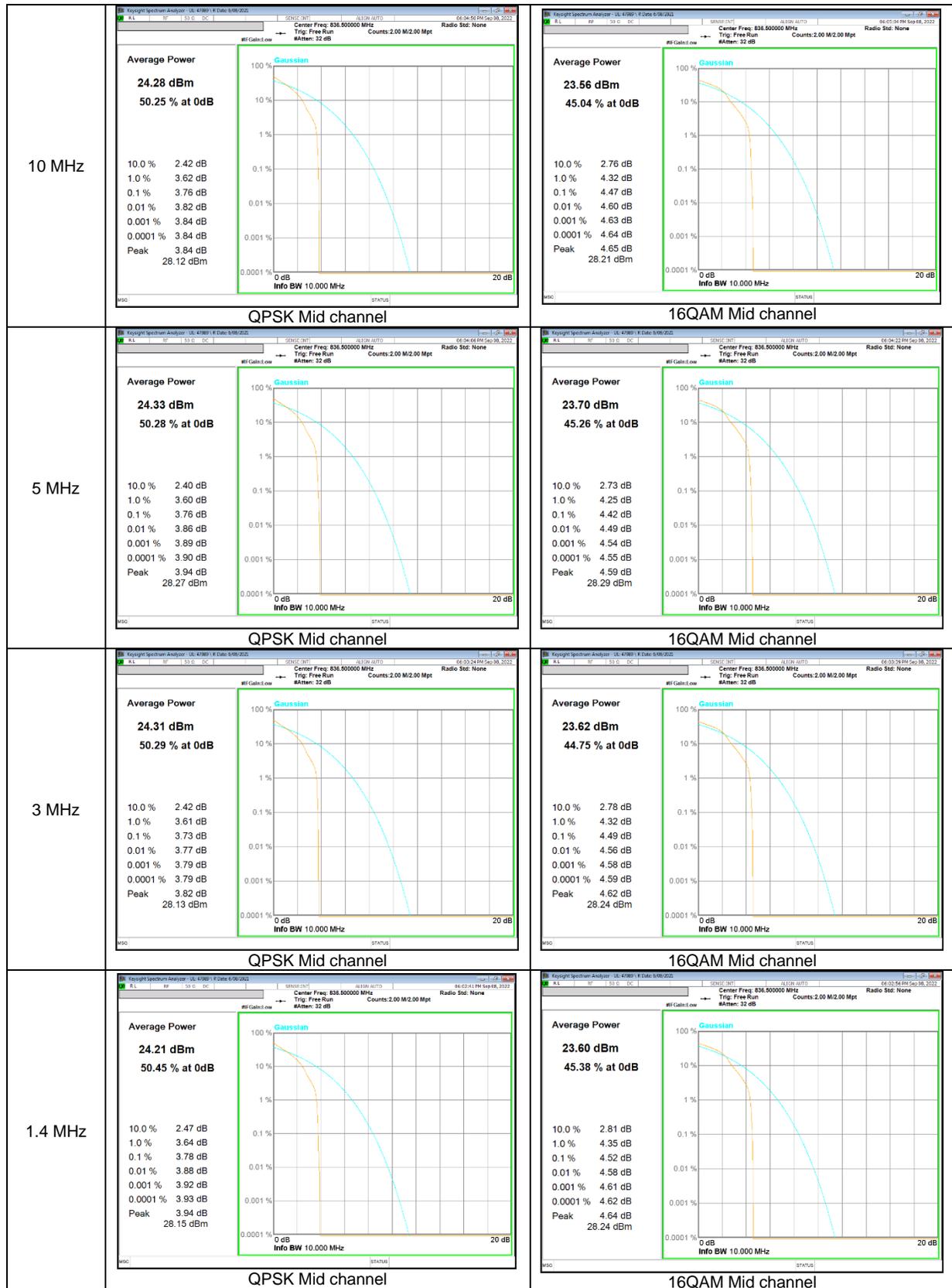
#### GSM



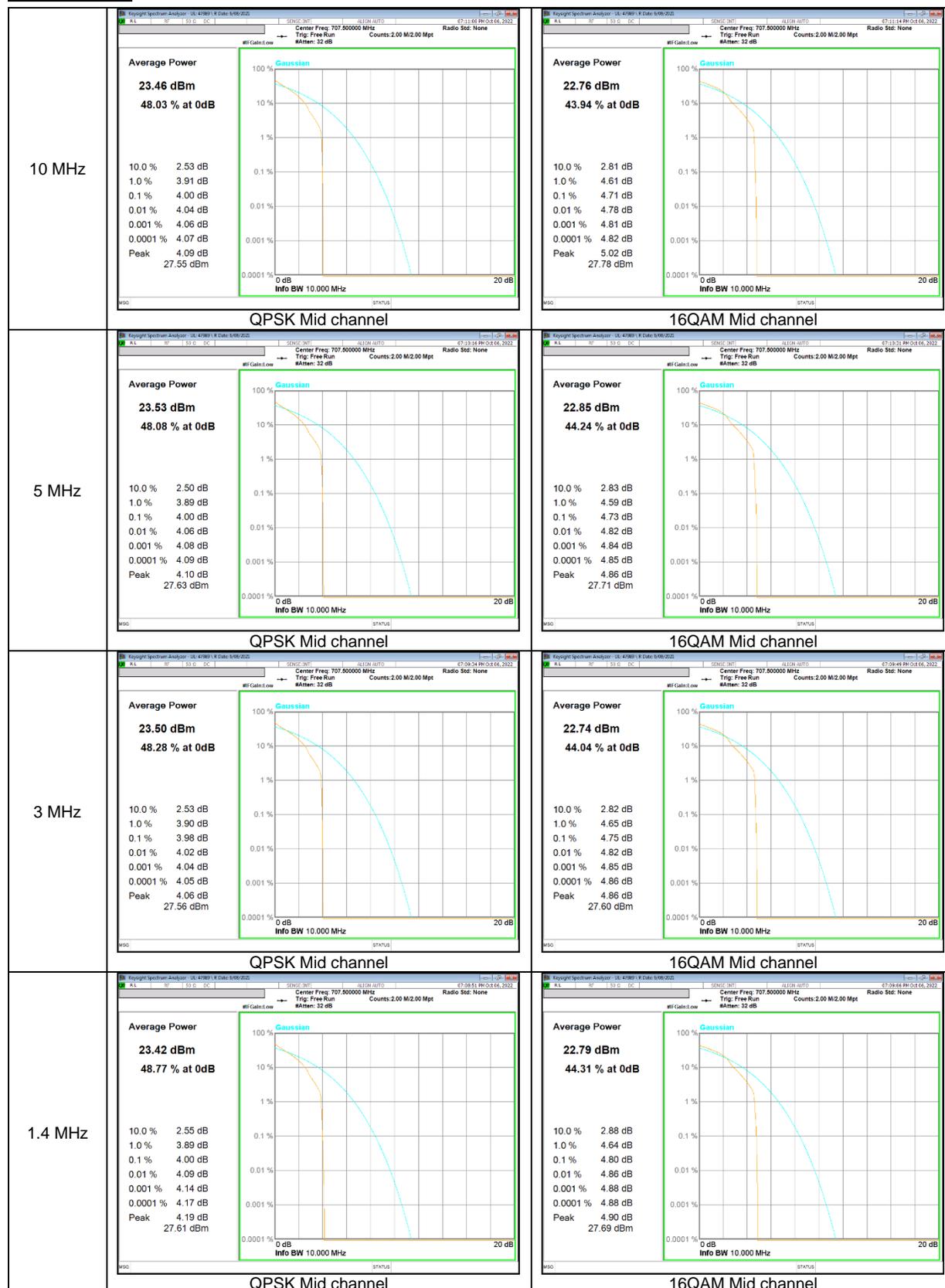
**WCDMA**



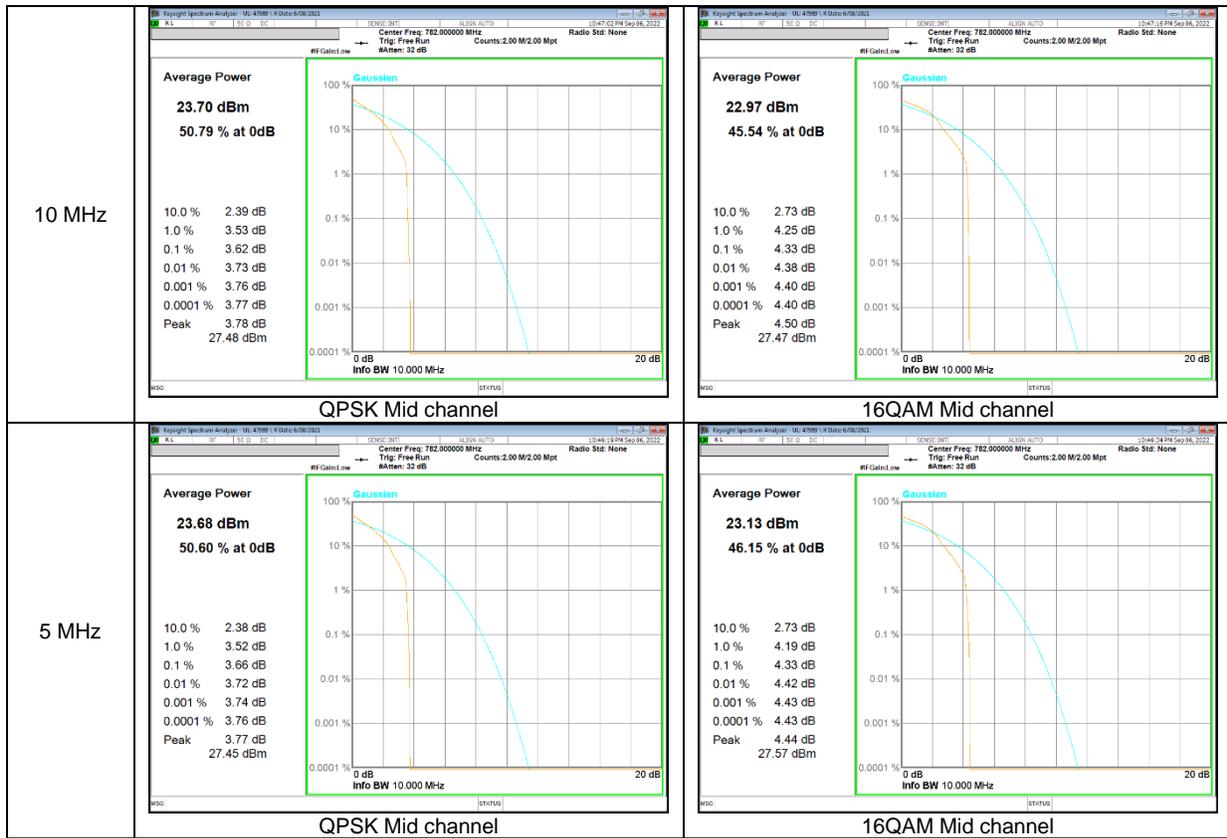
**LTE Band 5**



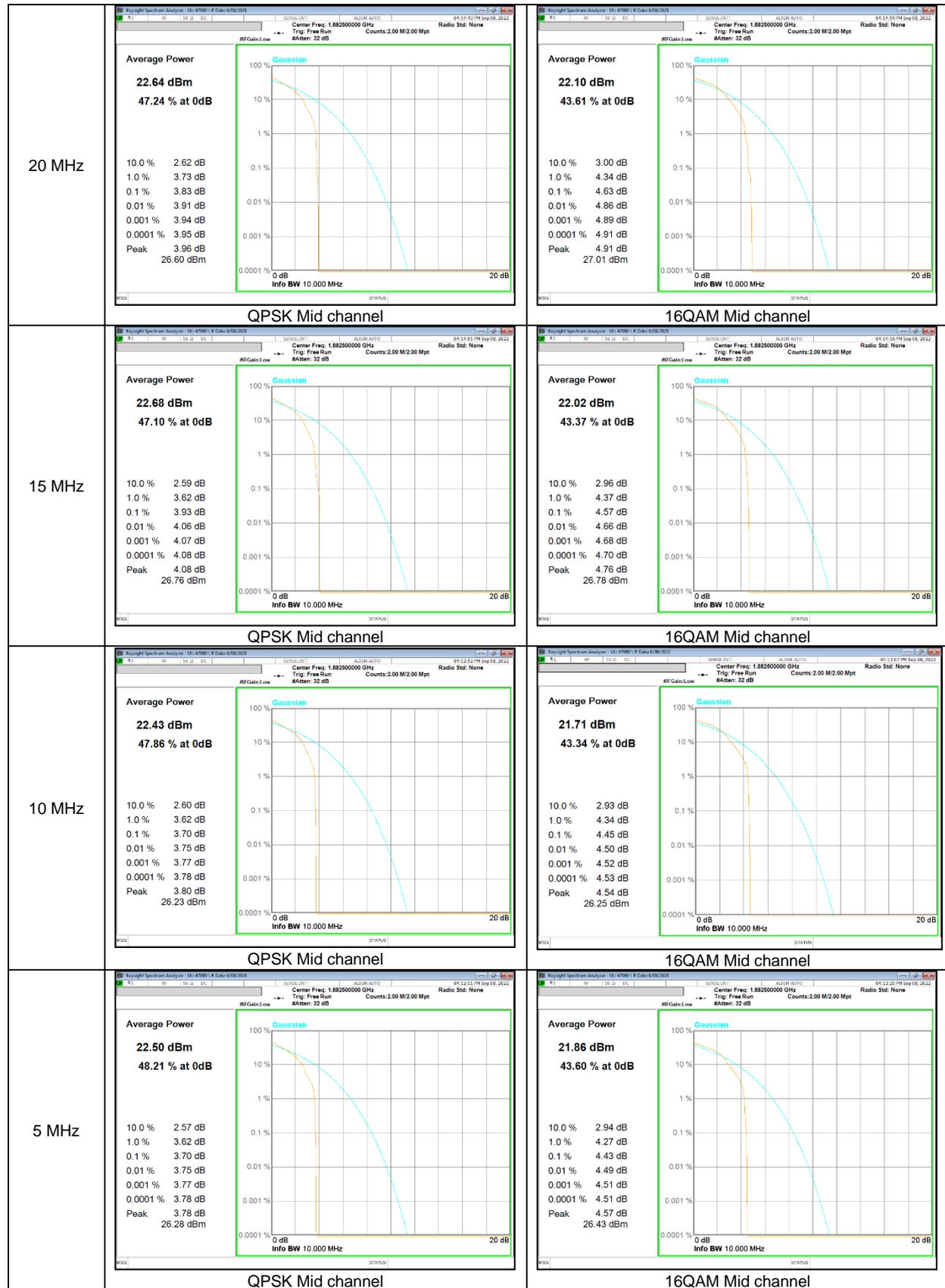
**LTE Band 12**

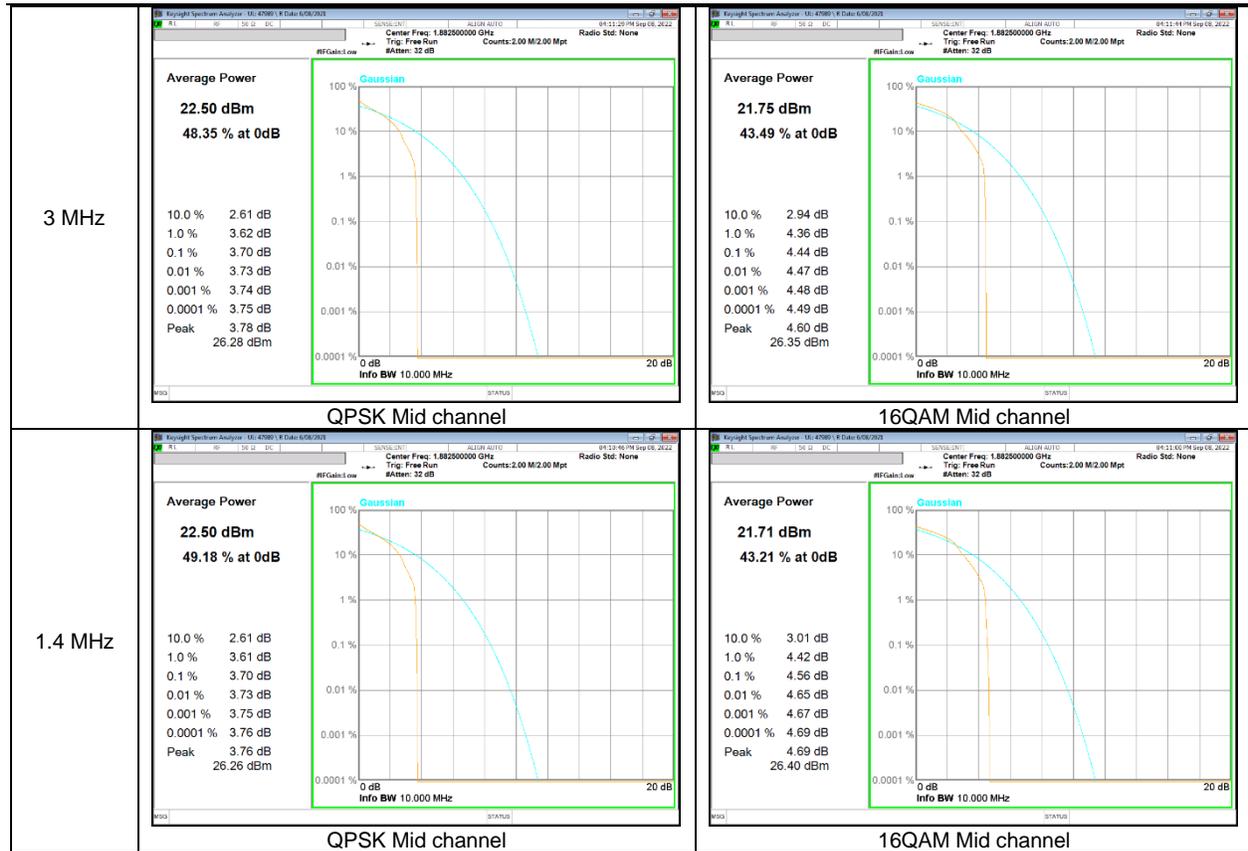


**LTE Band 13**

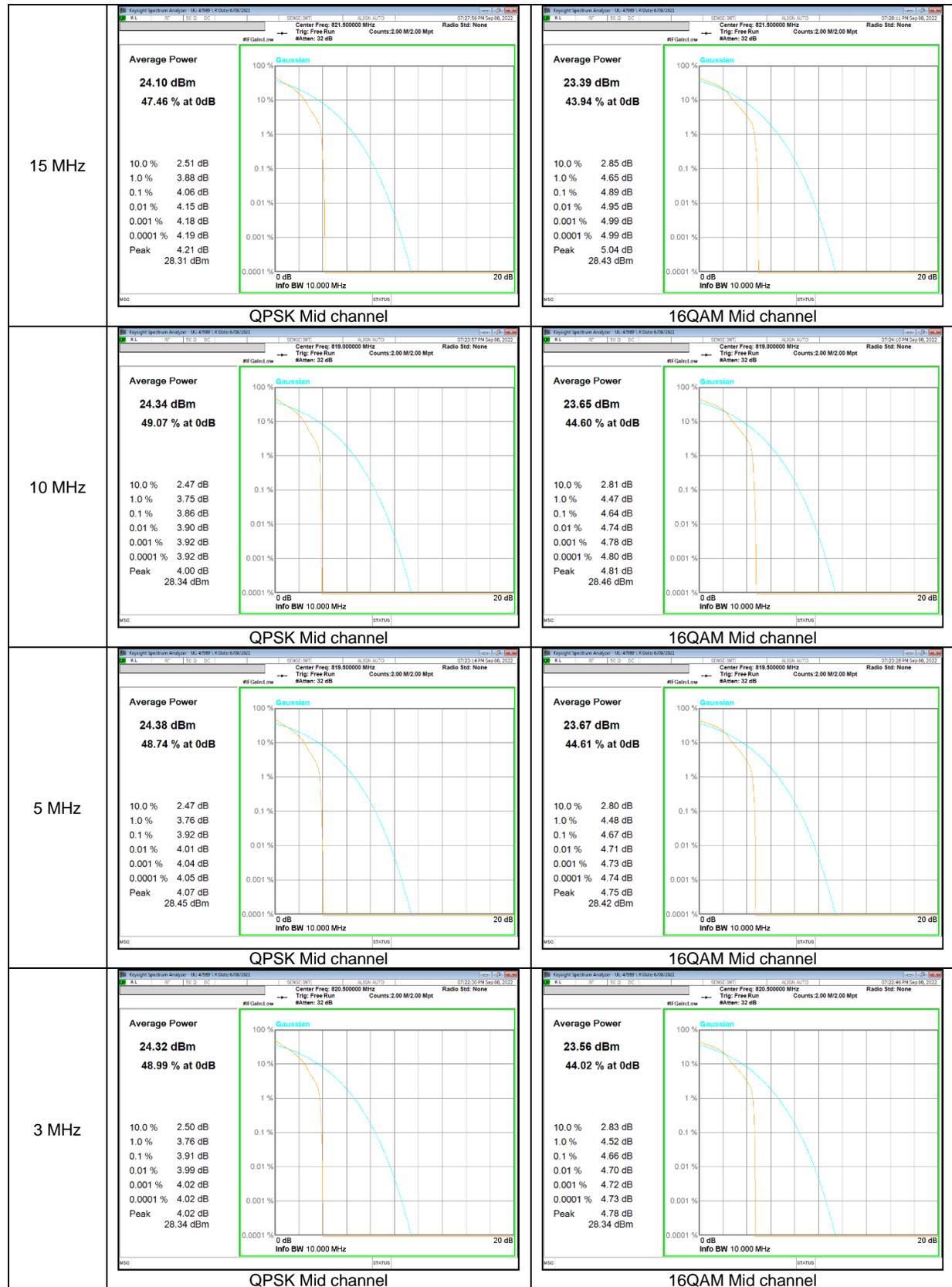


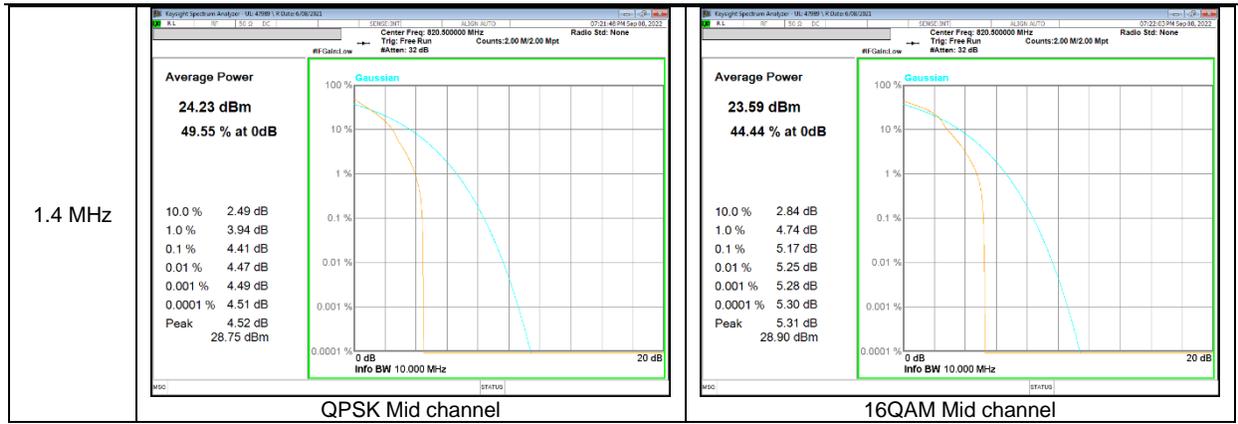
**LTE Band 25**



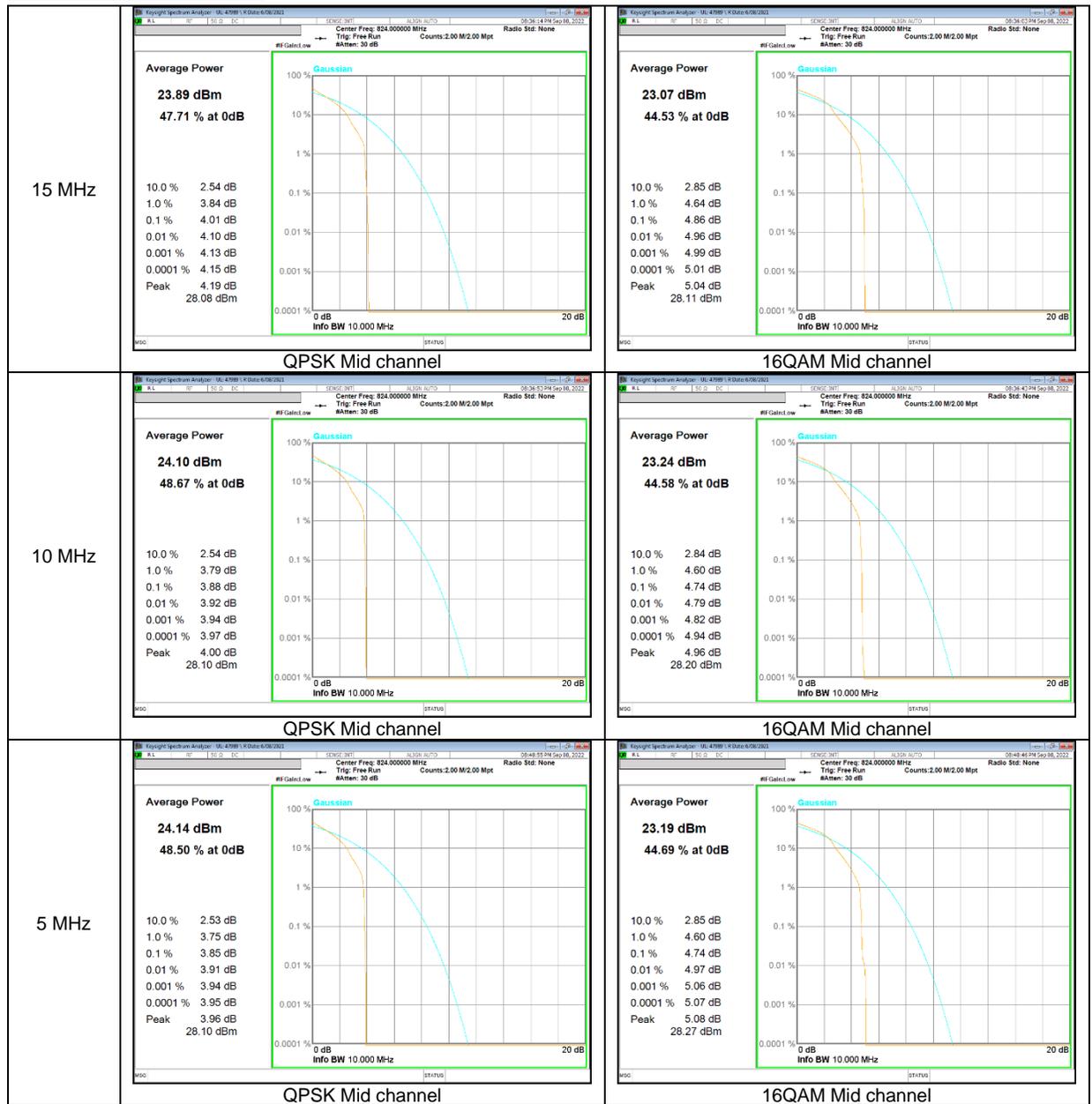


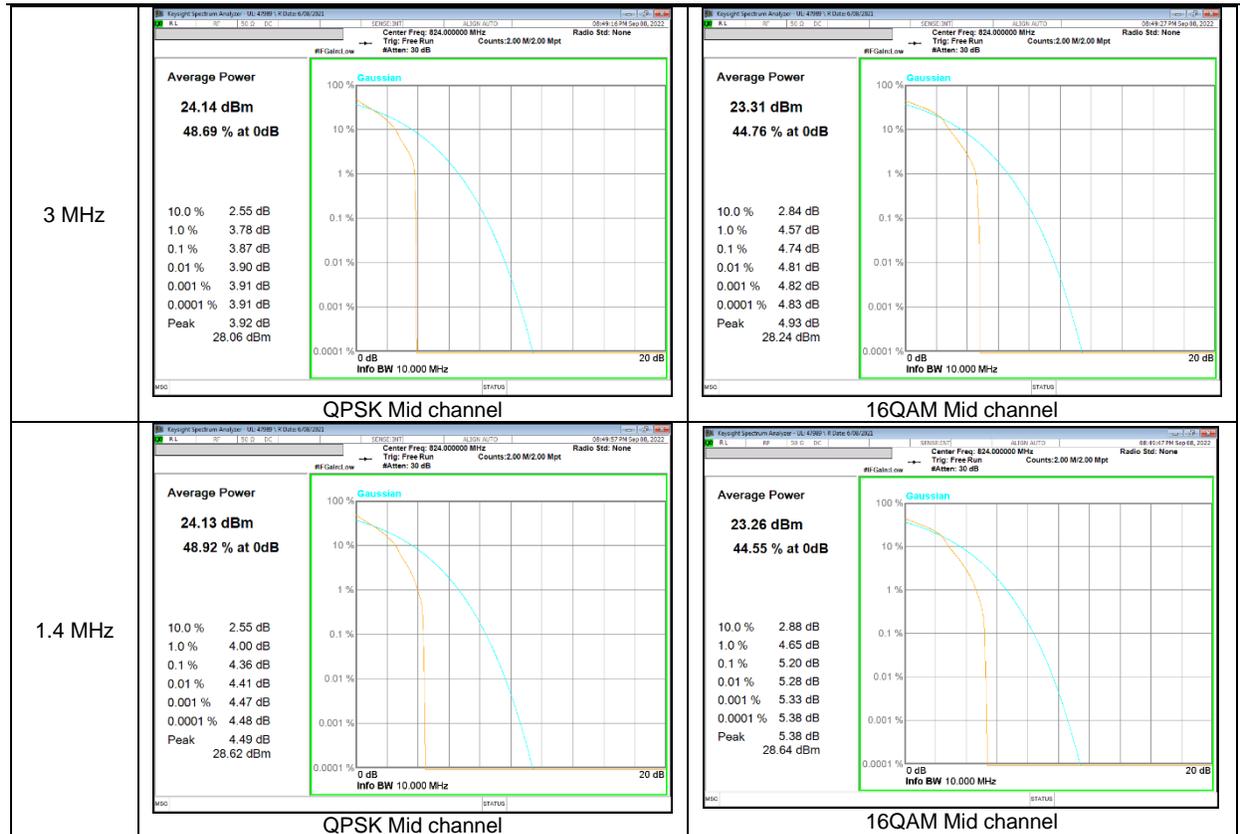
**LTE Band 26 (Part 90)**



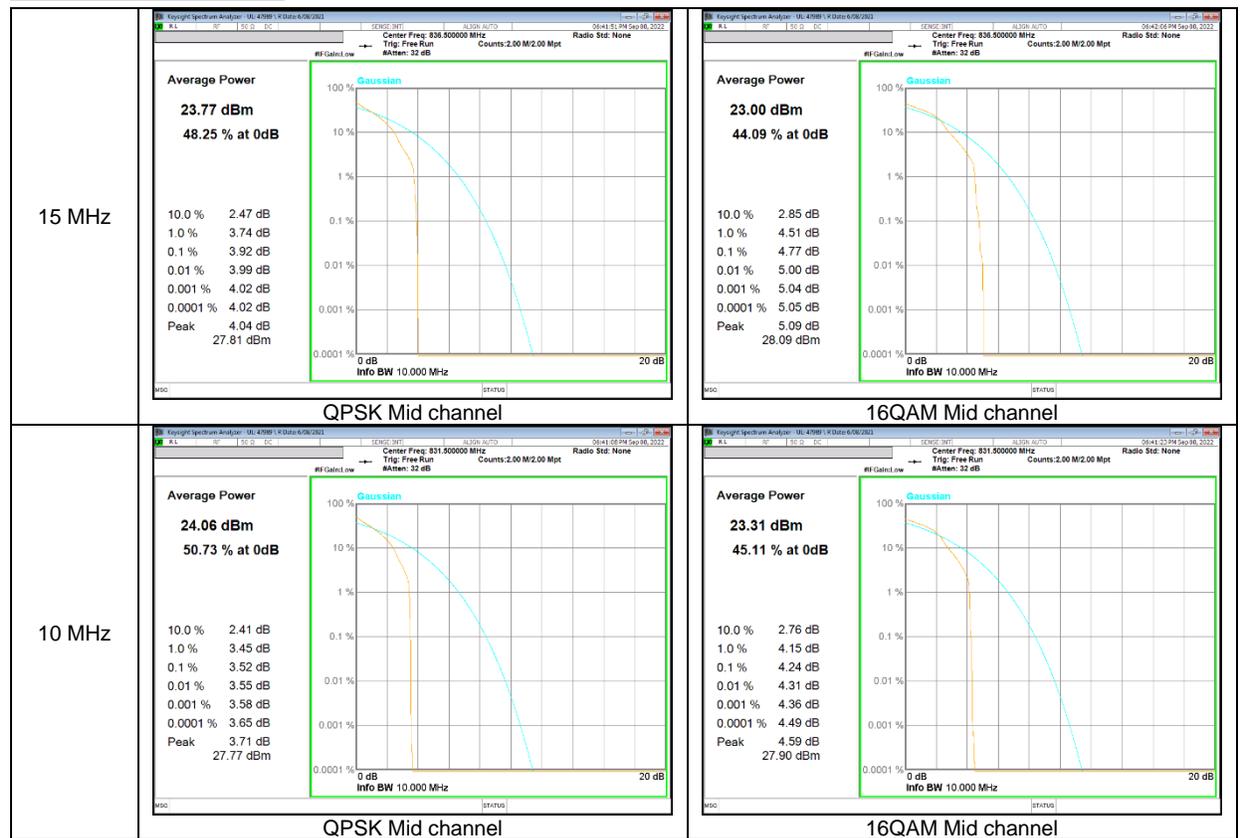


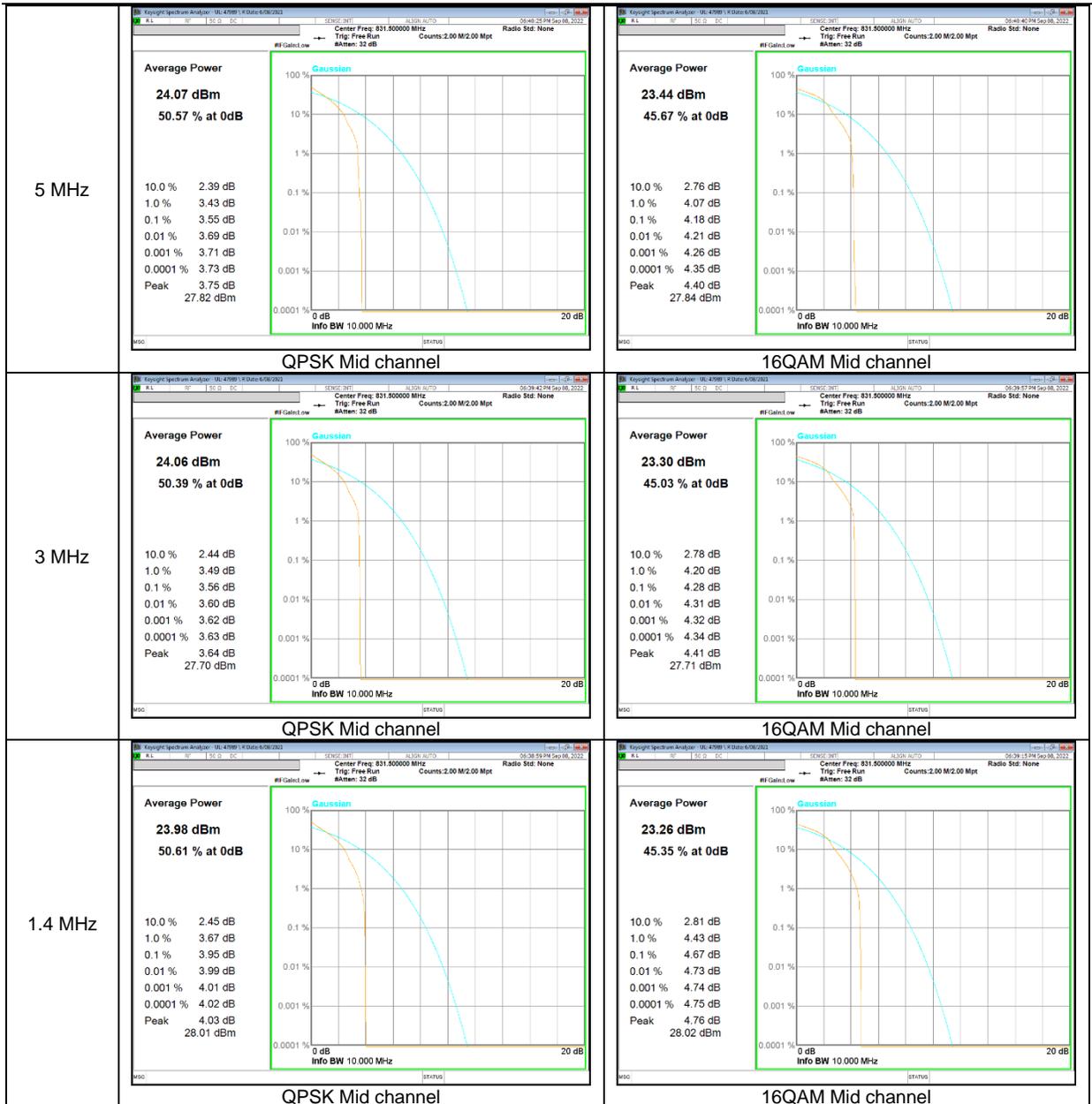
**LTE Band 26 (Straddle)**



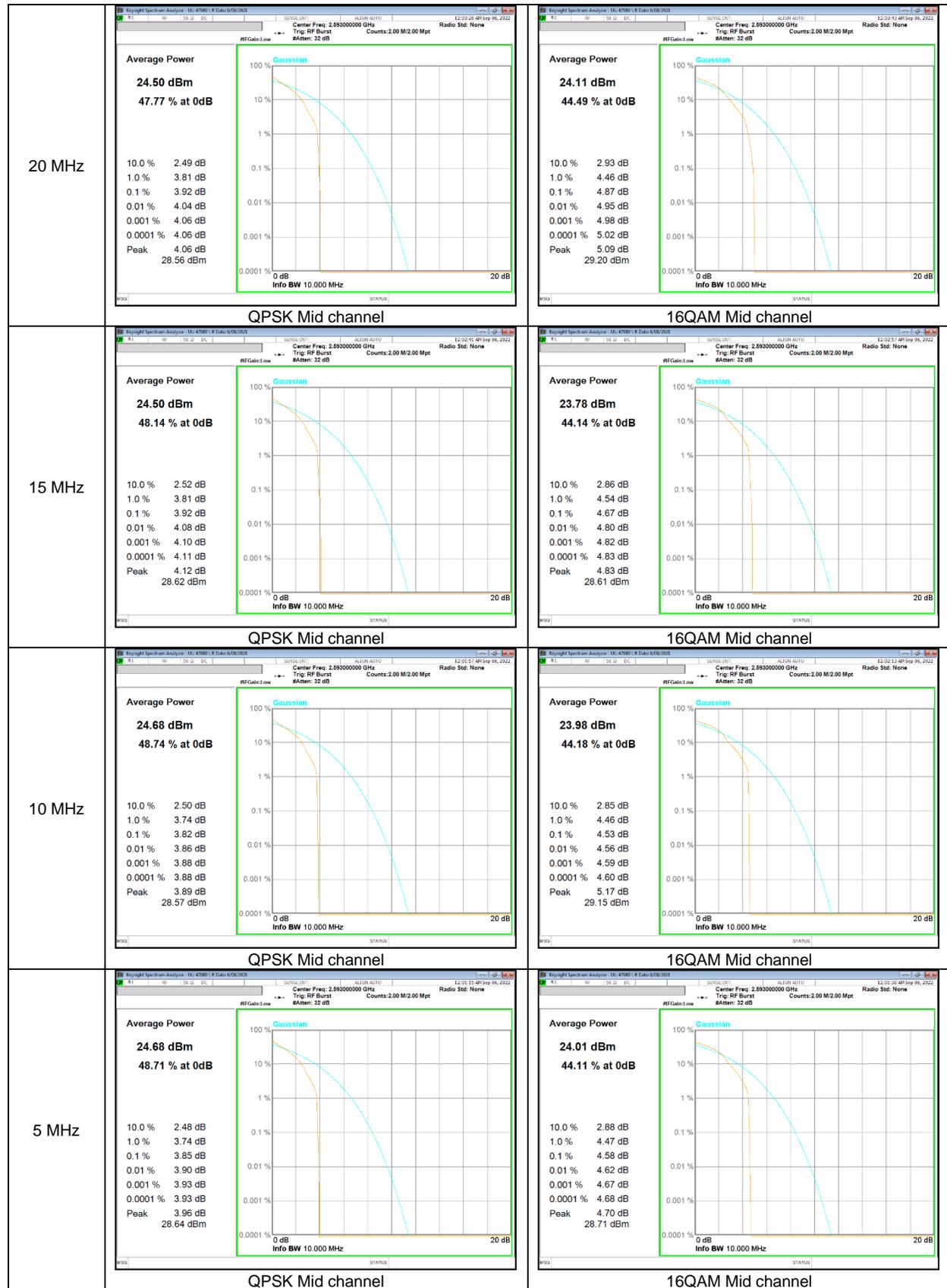


**LTE Band 26 (Part 22)**

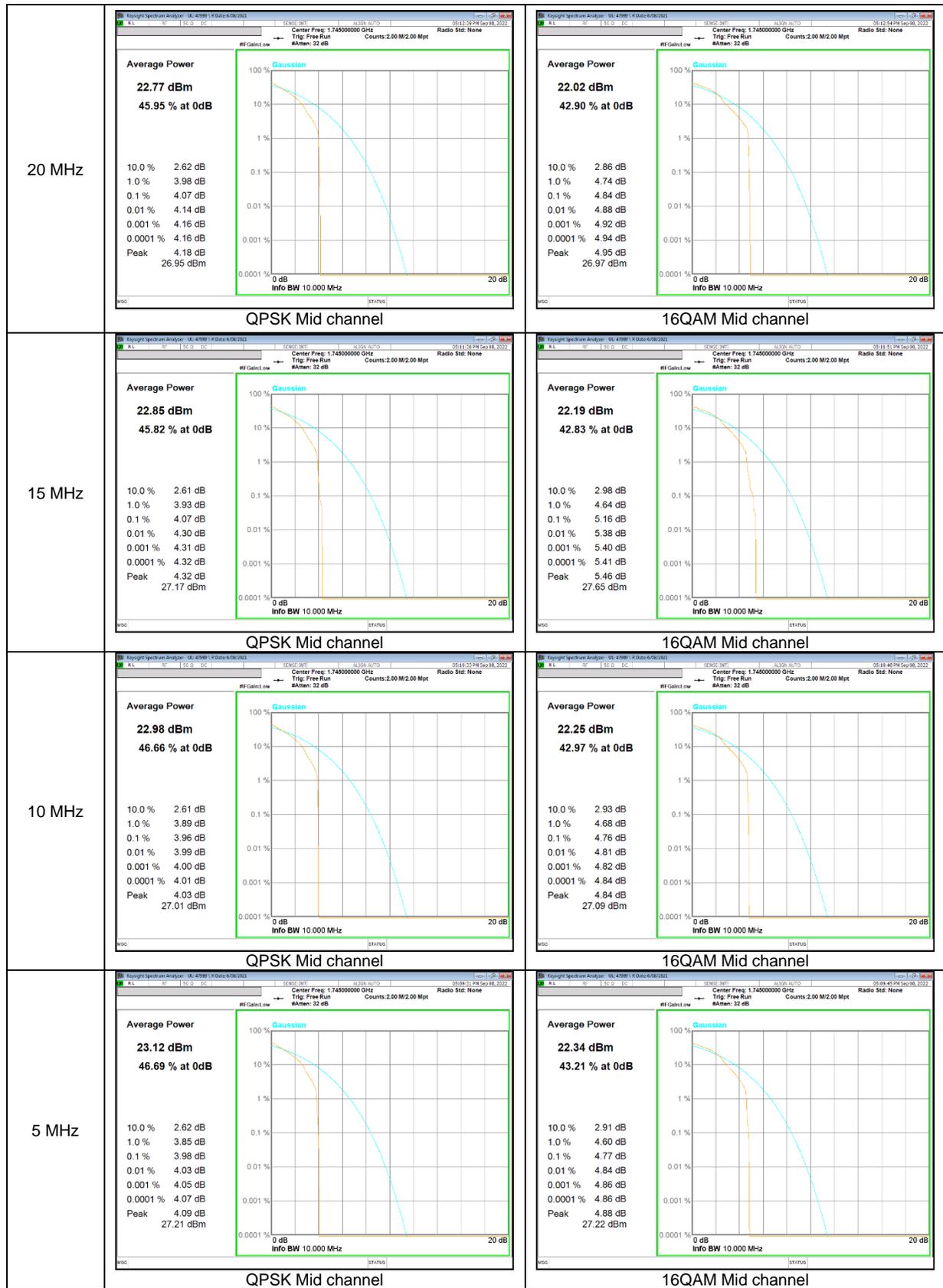


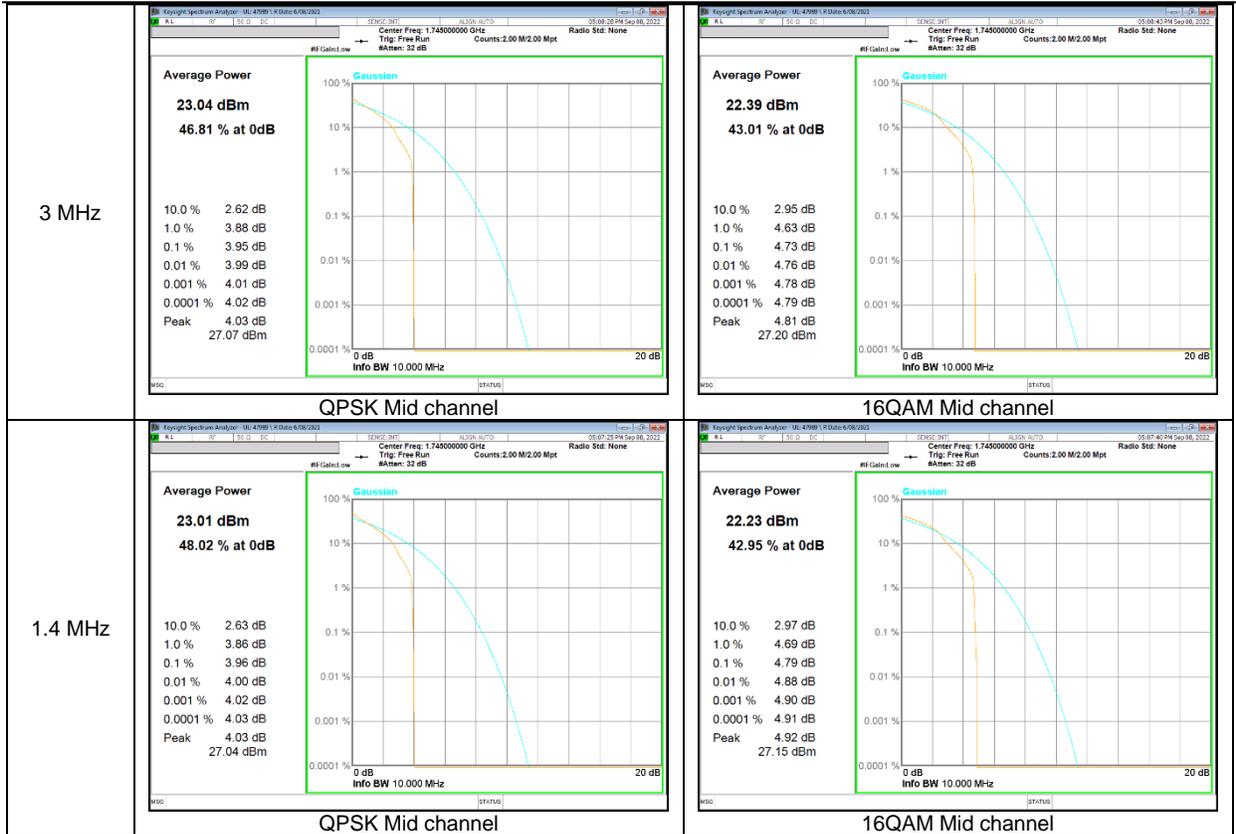


**LTE Band 41(PC2)**



**LTE Band 66**





**NR Band n5 CP-OFDM**

