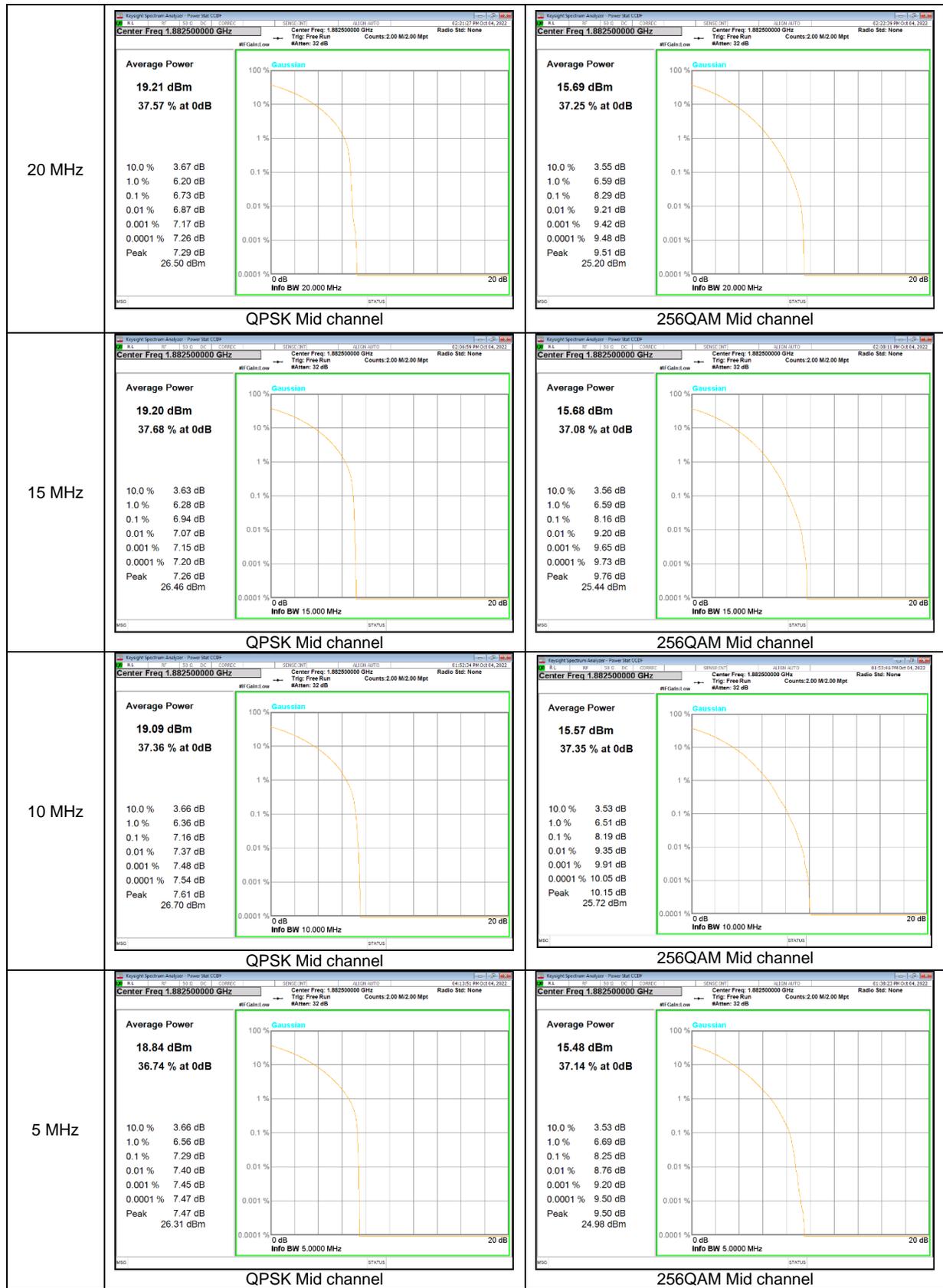
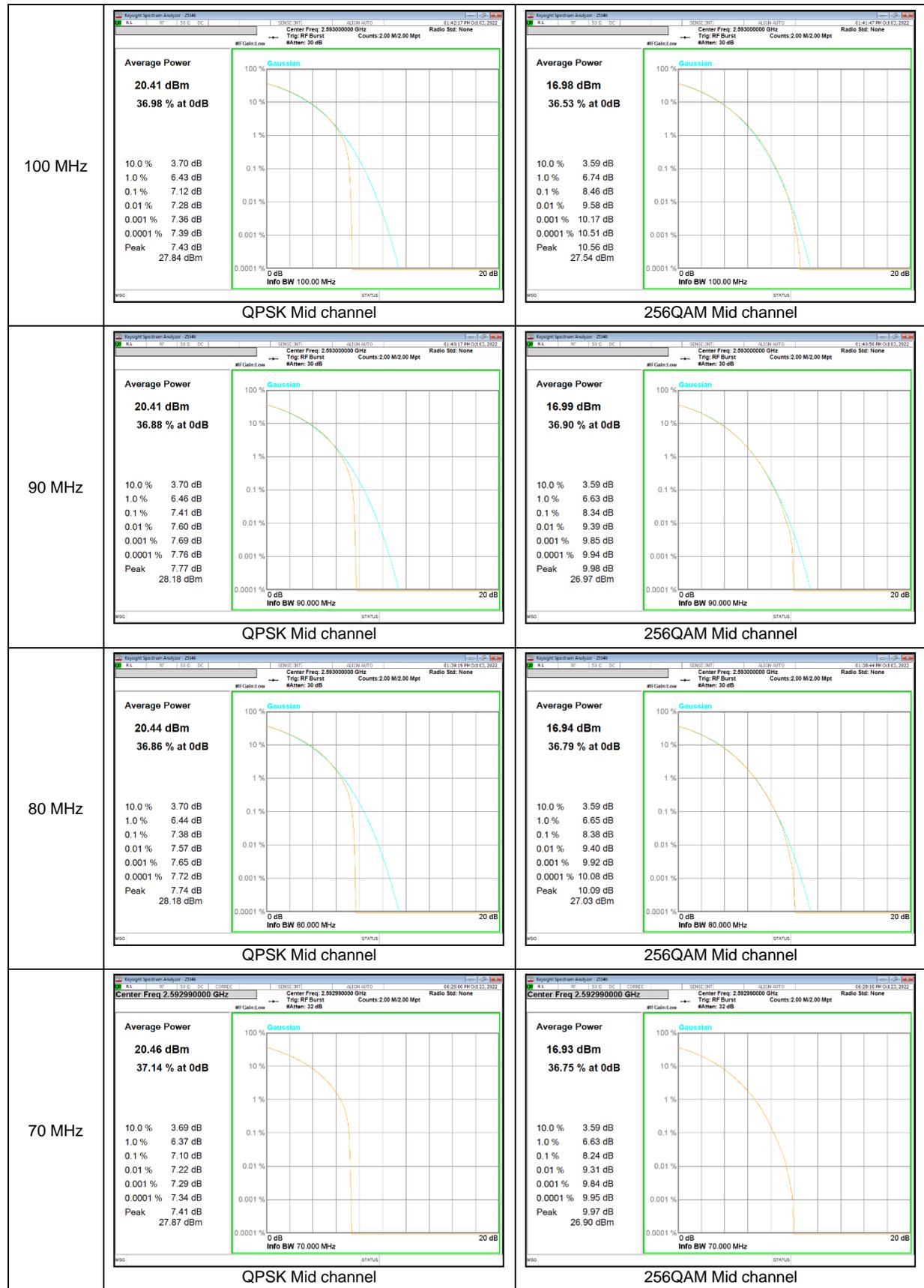
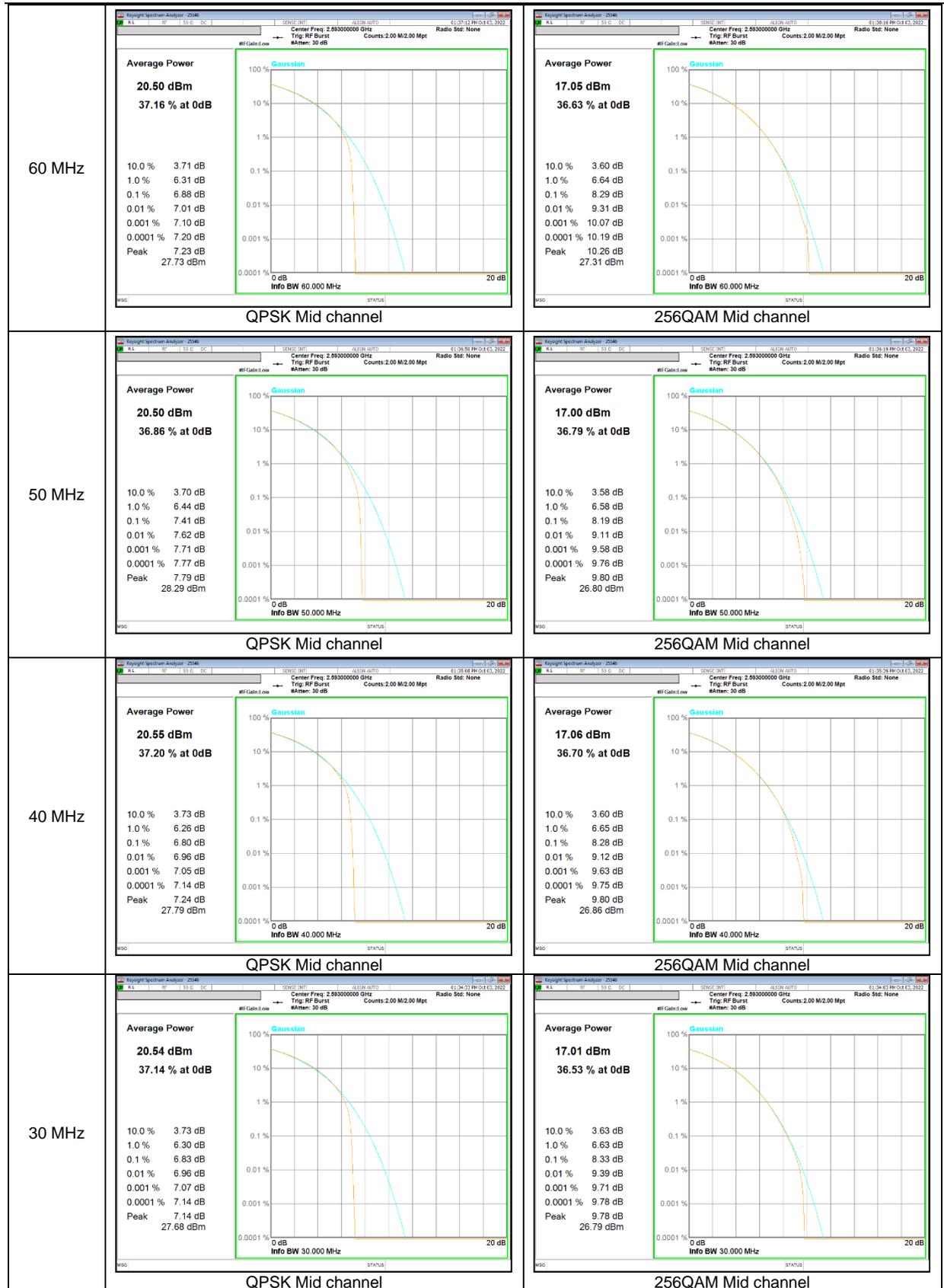


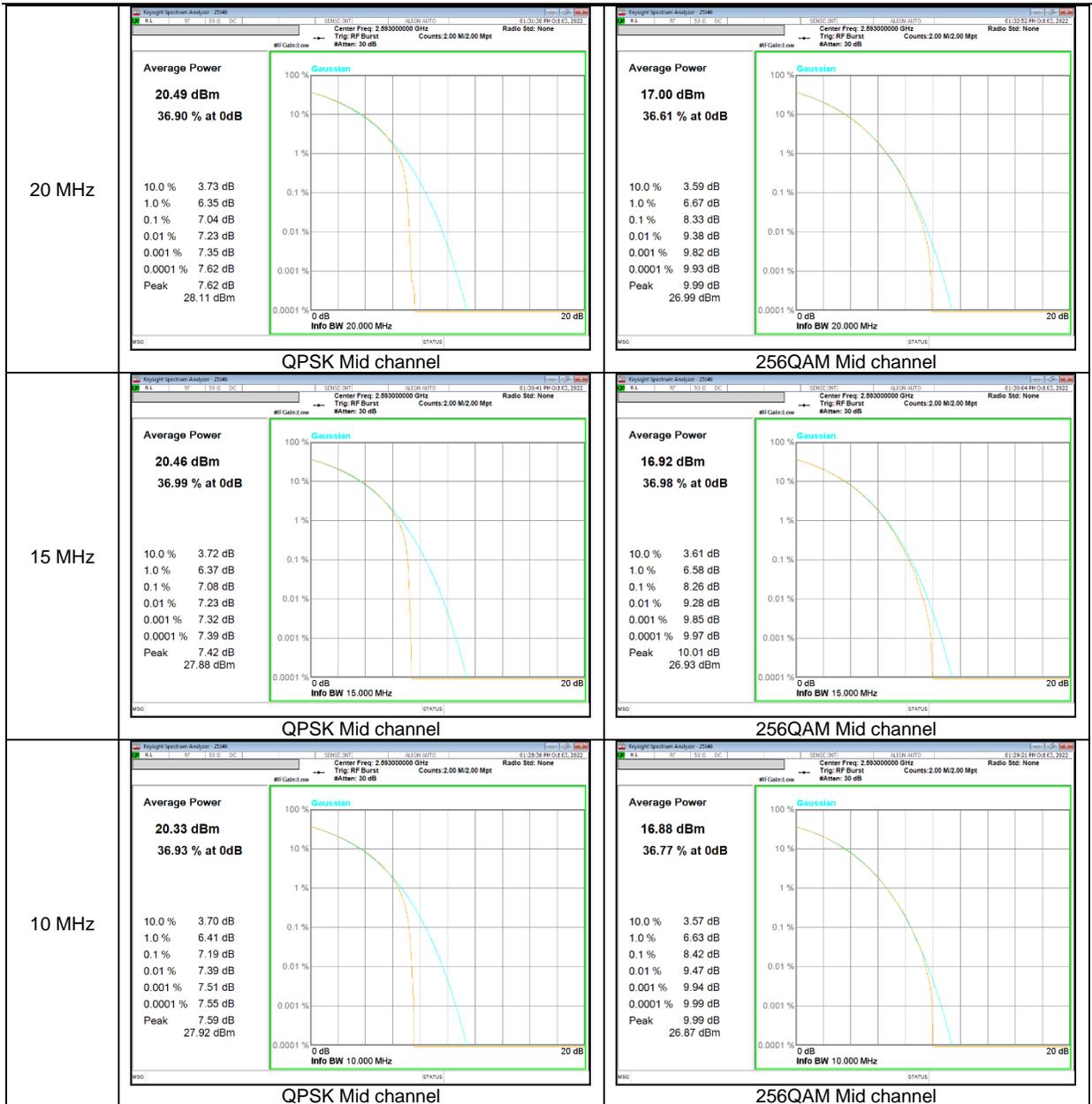
**NR Band n25 CP-OFDM**



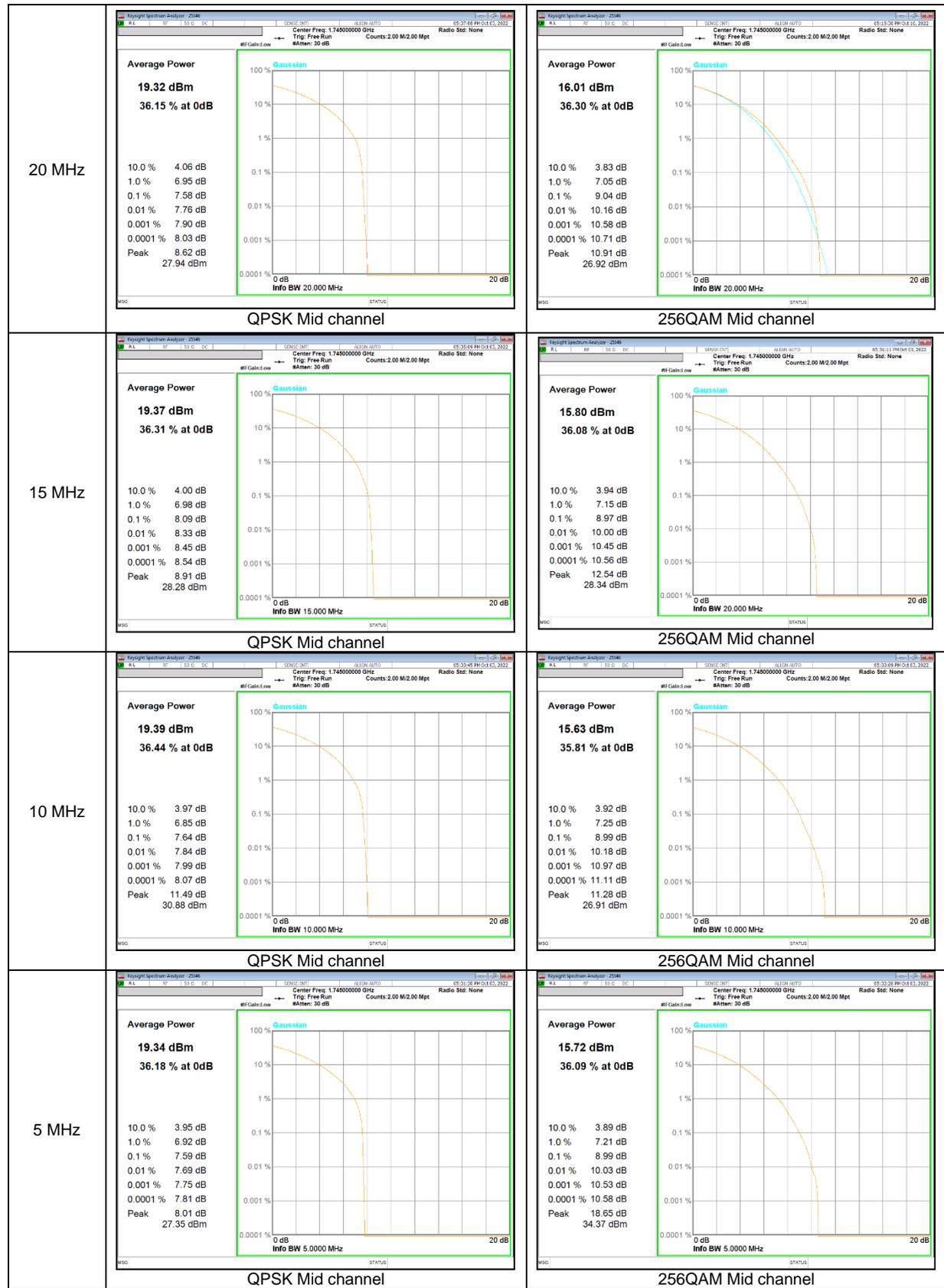
**NR Band n41 CP-OFDM**



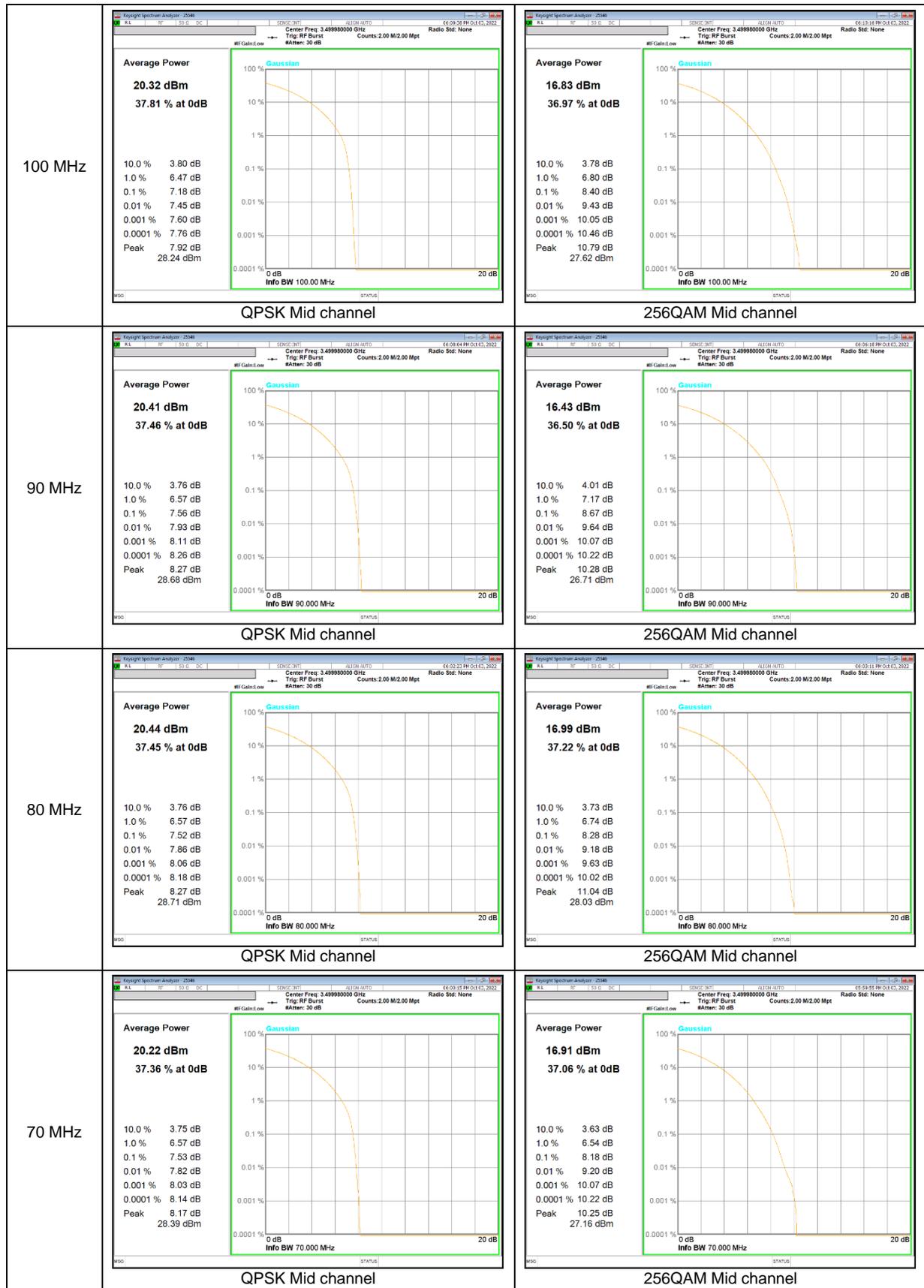


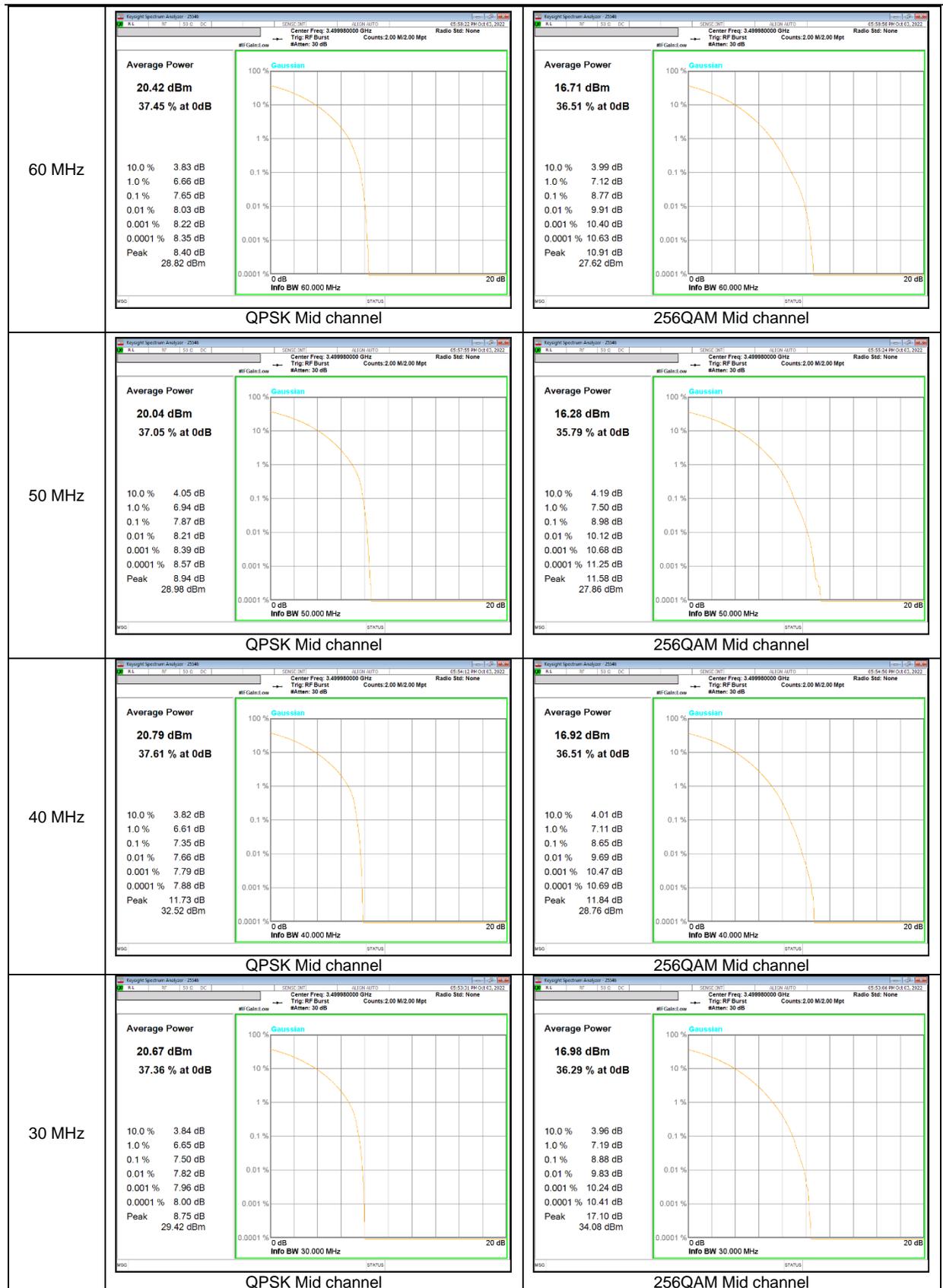


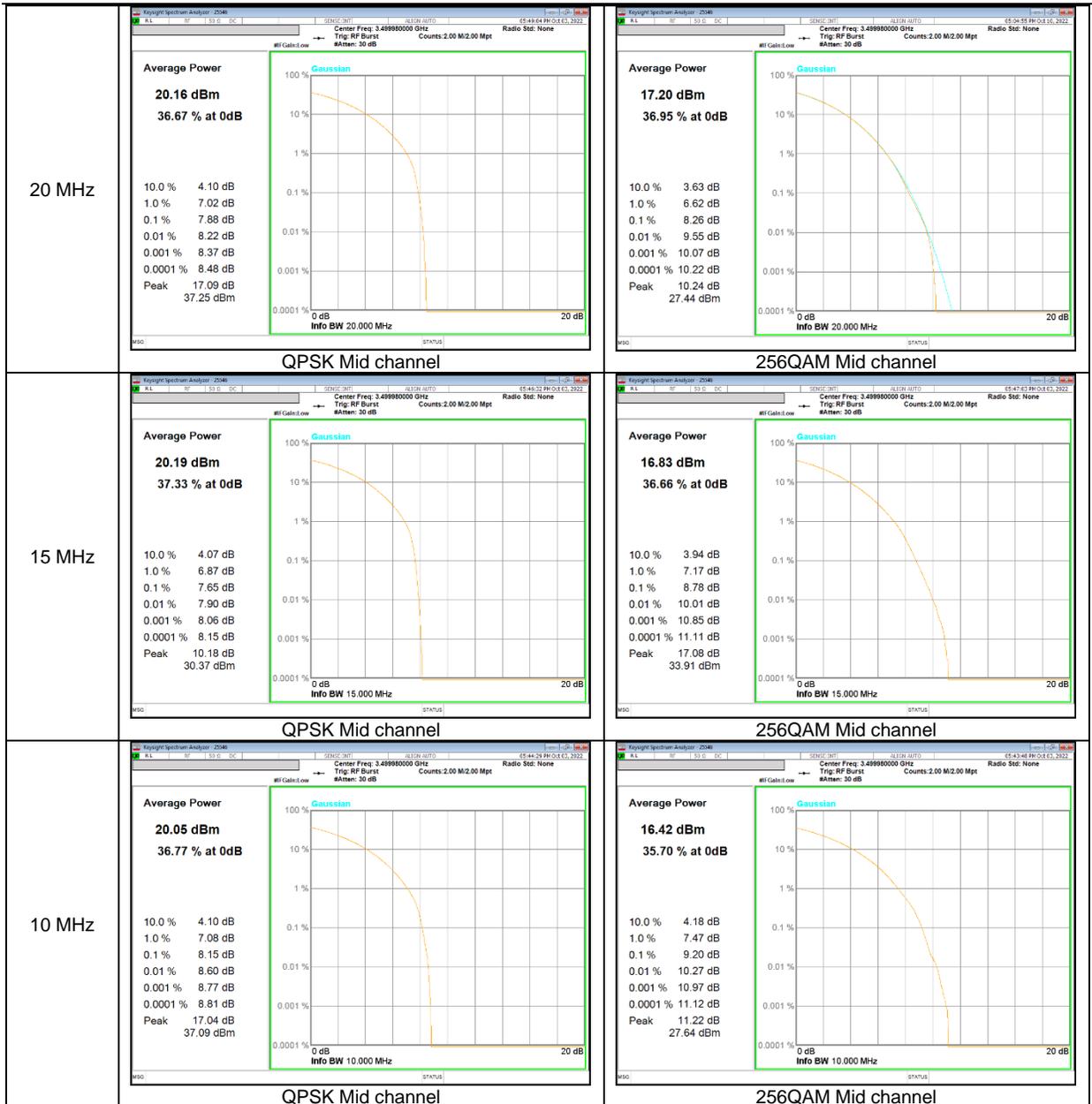
**NR Band n66 CP-OFDM (Main1 ANT)**



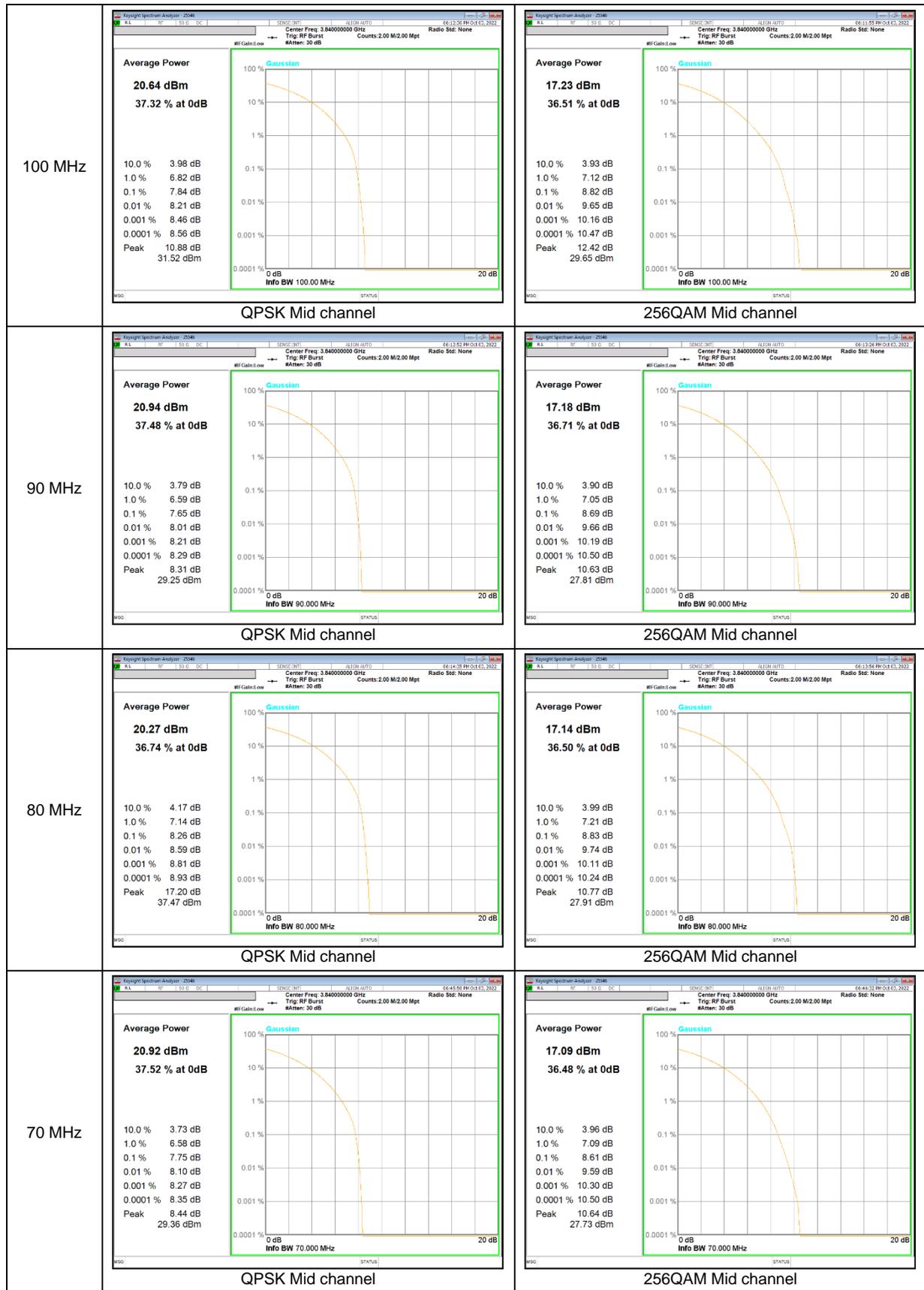
**NR Band n77 CP-OFDM (3450 ~ 3550 MHz)**

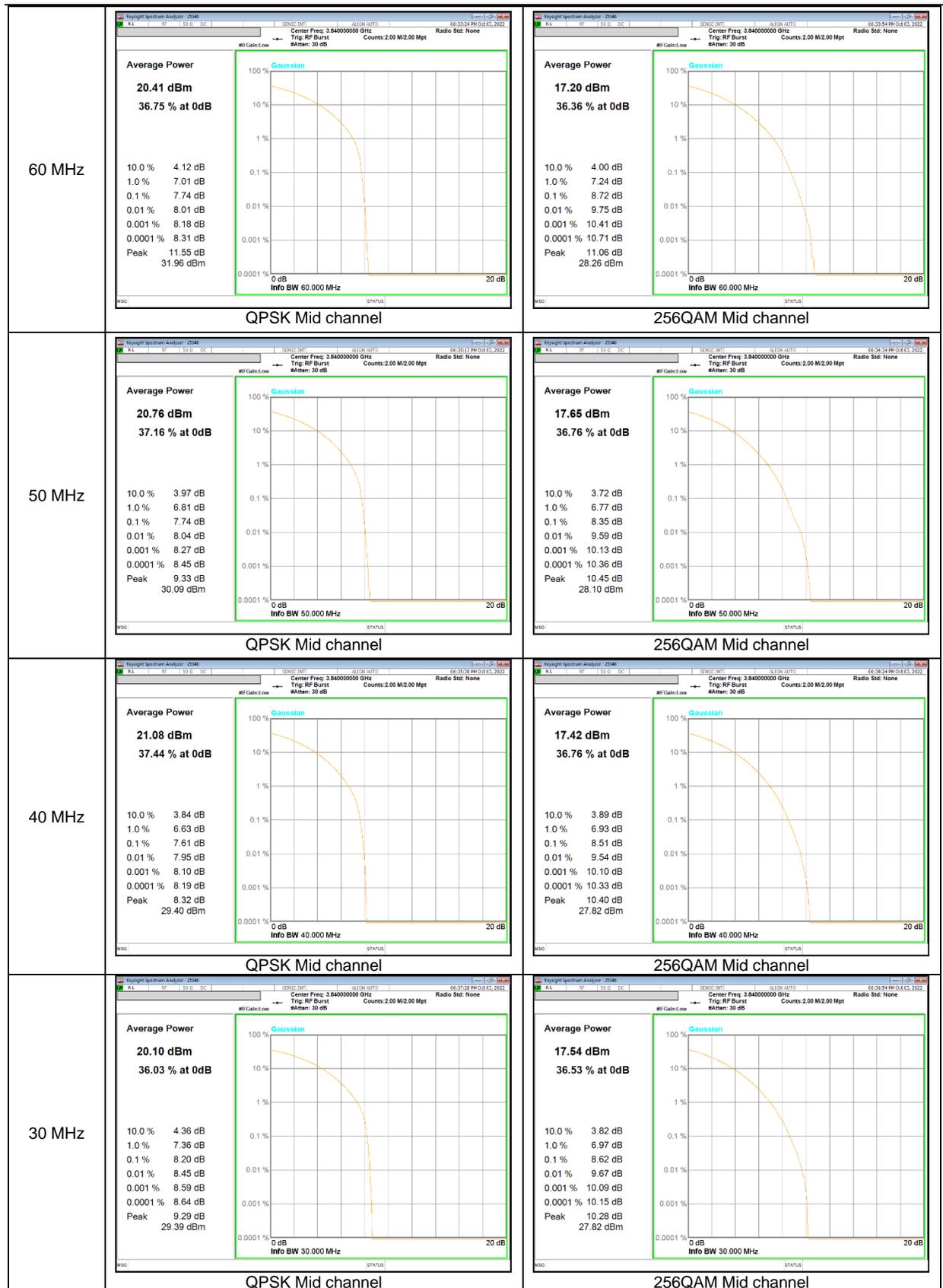


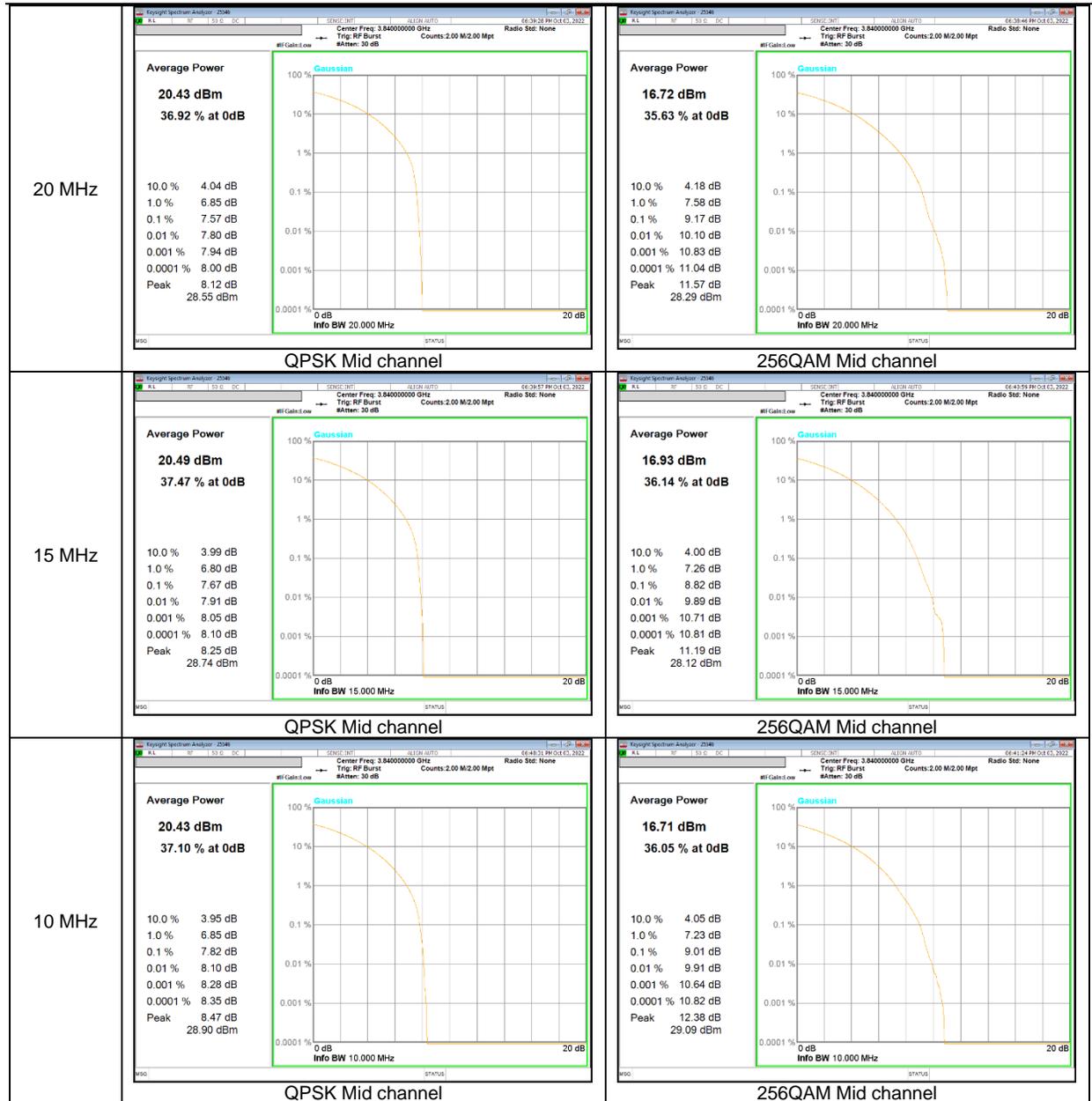




**NR Band n77 CP-OFDM (3700 ~ 3980 MHz)**







## 9. LIMITS AND CONDUCTED RESULTS

### 9.1. OCCUPIED BANDWIDTH

#### RULE PART(S)

FCC: §2.1049

#### LIMITS

For reporting purposes only

#### TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at middle channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v03r01)

#### RESULTS

See the following pages.

**- GSM**

Band	Modulation	f [MHz]	99% BW (kHz)	-26dB BW (kHz)
850	GPRS	836.6	241.25	308.0
	EGPRS		239.36	305.0
1900	GPRS	1880.0	242.86	309.3
	EGPRS		249.50	300.6

**- WCDMA**

Band	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
B5	Rel.99	836.6	4.135	4.68
	HSDPA		4.142	4.67
B4	Rel.99	1732.6	4.145	4.67
	HSDPA		4.145	4.69
B2	Rel.99	1880.0	4.135	4.68
	HSDPA		4.158	4.69

**- LTE Band 5**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B5	10M	QPSK	836.5	8.964	9.95
		16QAM		8.961	9.89
	5M	QPSK		4.500	5.09
		16QAM		4.511	5.12
	3M	QPSK		2.698	3.04
		16QAM		2.697	3.04
	1.4M	QPSK		1.087	1.36
		16QAM		1.090	1.36

**- LTE Band 12**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B12	10M	QPSK	707.5	8.963	9.88
		16QAM		8.935	9.80
	5M	QPSK		4.490	5.13
		16QAM		4.493	5.12
	3M	QPSK		2.692	3.03
		16QAM		2.696	3.04
	1.4M	QPSK		1.088	1.32
		16QAM		1.095	1.37

**- LTE Band 13**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B13	10M	QPSK	782.0	8.954	9.93
		16QAM		8.969	9.90
	5M	QPSK		4.494	5.09
		16QAM		4.501	5.04

**- LTE Band 25**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B25	20M	QPSK	1882.5	17.854	19.34
		16QAM		17.852	19.33
	15M	QPSK		13.427	14.63
		16QAM		13.394	14.57
	10M	QPSK		8.972	9.95
		16QAM		8.961	9.87
	5M	QPSK		4.477	4.94
		16QAM		4.493	5.08
	3M	QPSK		2.700	3.04
		16QAM		2.696	3.05
	1.4M	QPSK		1.089	1.30
		16QAM		1.090	1.34

**- LTE Band 26 (Part 90)**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B26	15M	QPSK	821.5	13.428	14.82
		16QAM		13.432	14.70
	10M	QPSK	819.0	8.983	9.97
		16QAM		8.959	9.90
	5M	QPSK	819.5	4.501	5.11
		16QAM		4.499	5.09
	3M	QPSK	820.5	2.695	3.03
		16QAM		2.700	3.03
	1.4M	QPSK	820.5	1.089	1.33
		16QAM		1.088	1.33

**- LTE Band 26 (Straddle)**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B26	15M	QPSK	824.0	13.413	14.79
		16QAM		13.406	14.92
	10M	QPSK		8.957	9.96
		16QAM		8.946	9.90
	5M	QPSK		4.499	5.13
		16QAM		4.496	5.05
	3M	QPSK		2.699	3.04
		16QAM		2.695	3.04
	1.4M	QPSK		1.087	1.33
		16QAM		1.093	1.36

**- LTE Band 26 (Part 22)**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B26	15M	QPSK	831.5	13.461	14.82
		16QAM		13.433	14.59
	10M	QPSK		8.942	9.84
		16QAM		8.941	9.81
	5M	QPSK		4.484	5.13
		16QAM		4.503	5.08
	3M	QPSK		2.703	3.08
		16QAM		2.703	3.03
	1.4M	QPSK		1.090	1.34
		16QAM		1.094	1.35

**- LTE Band 41(PC2)**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B41(PC2)	20M	QPSK	2593.0	17.927	19.36
		16QAM		17.889	19.45
	15M	QPSK		13.419	14.58
		16QAM		13.457	14.68
	10M	QPSK		8.961	9.71
		16QAM		8.981	9.95
	5M	QPSK		4.486	5.03
		16QAM		4.495	5.03

**- LTE Band 66**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B66	20M	QPSK	1745.0	17.898	19.63
		16QAM		17.907	19.67
	15M	QPSK		13.437	14.75
		16QAM		13.444	14.92
	10M	QPSK		8.968	9.85
		16QAM		8.966	9.93
	5M	QPSK		4.489	5.06
		16QAM		4.499	5.10
	3M	QPSK		2.696	3.01
		16QAM		2.699	3.03
	1.4M	QPSK		1.090	1.34
		16QAM		1.092	1.37

**- NR Band n5 CP-OFDM**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n5	20M	QPSK	836.5	18.867	19.95
		16QAM		18.904	19.86
	15M	QPSK		14.083	14.90
		16QAM		14.144	15.05
	10M	QPSK		9.286	10.10
		16QAM		9.286	10.12
	5M	QPSK		4.477	5.20
		16QAM		4.492	5.16

**- NR Band n25 CP-OFDM**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n25	20M	QPSK	1882.5	18.928	19.93
		16QAM		18.882	19.86
	15M	QPSK		14.105	15.03
		16QAM		14.113	15.09
	10M	QPSK		9.296	10.02
		16QAM		9.303	10.01
	5M	QPSK		4.474	5.08
		16QAM		4.483	5.22

**- NR Band n41(PC2) CP-OFDM**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n41	100M	QPSK	2593.0	96.523	99.65
		16QAM		96.280	99.75
	90M	QPSK		86.550	89.48
		16QAM		86.503	89.56
	80M	QPSK		76.716	79.13
		16QAM		76.504	79.18
	70M	QPSK		67.253	69.45
		16QAM		67.413	69.62
	60M	QPSK		57.046	59.22
		16QAM		57.158	59.20
	50M	QPSK		47.033	49.10
		16QAM		47.017	49.03
	40M	QPSK		37.487	39.24
		16QAM		37.429	38.84
	30M	QPSK		27.836	29.05
		16QAM		27.880	29.16
	20M	QPSK		18.251	19.58
		16QAM		18.311	19.56
	15M	QPSK		13.523	14.98
		16QAM		13.611	14.65
10M	QPSK	8.605	9.65		
	16QAM	8.573	9.79		

**- NR Band n66 CP-OFDM (Main1 ANT)**

Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n66	20M	QPSK	1745.0	18.944	19.97
		16QAM		17.858	18.71
	15M	QPSK		14.127	14.98
		16QAM		14.108	14.98
	10M	QPSK		9.292	10.02
		16QAM		9.312	10.10
	5M	QPSK		4.484	5.25
		16QAM		4.481	5.15

**- NR Band n77 CP-OFDM (3450 ~ 3550 MHz)**

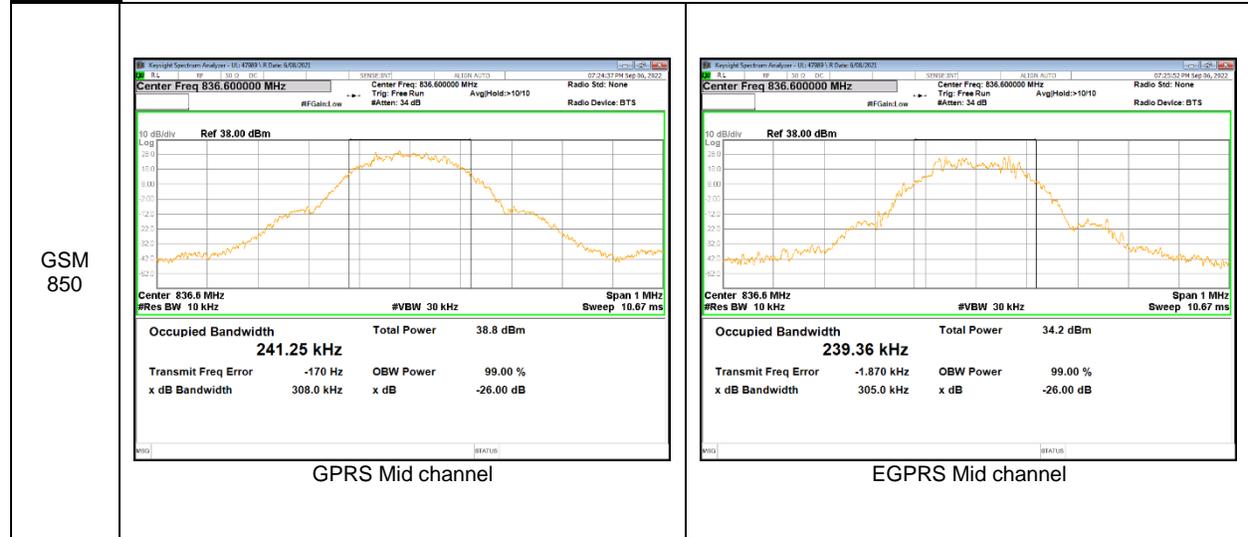
Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n77	100M	QPSK	3500.0	97.555	100.7
		16QAM		97.327	100.4
	90M	QPSK		87.458	90.11
		16QAM		87.418	90.26
	80M	QPSK		77.342	79.86
		16QAM		77.411	79.95
	70M	QPSK		67.552	69.67
		16QAM		67.445	69.70
	60M	QPSK		57.841	59.85
		16QAM		57.674	60.13
	50M	QPSK		47.528	49.44
		16QAM		47.452	49.06
	40M	QPSK		37.838	39.36
		16QAM		37.786	39.47
	30M	QPSK		27.756	29.54
		16QAM		27.782	29.09
	20M	QPSK		18.254	19.34
		16QAM		18.254	19.34
	15M	QPSK		13.581	14.58
		16QAM		13.600	14.95
10M	QPSK	8.625	10.09		
	16QAM	8.570	9.66		

**- NR Band n77 CP-OFDM (3700 ~ 3980 MHz)**

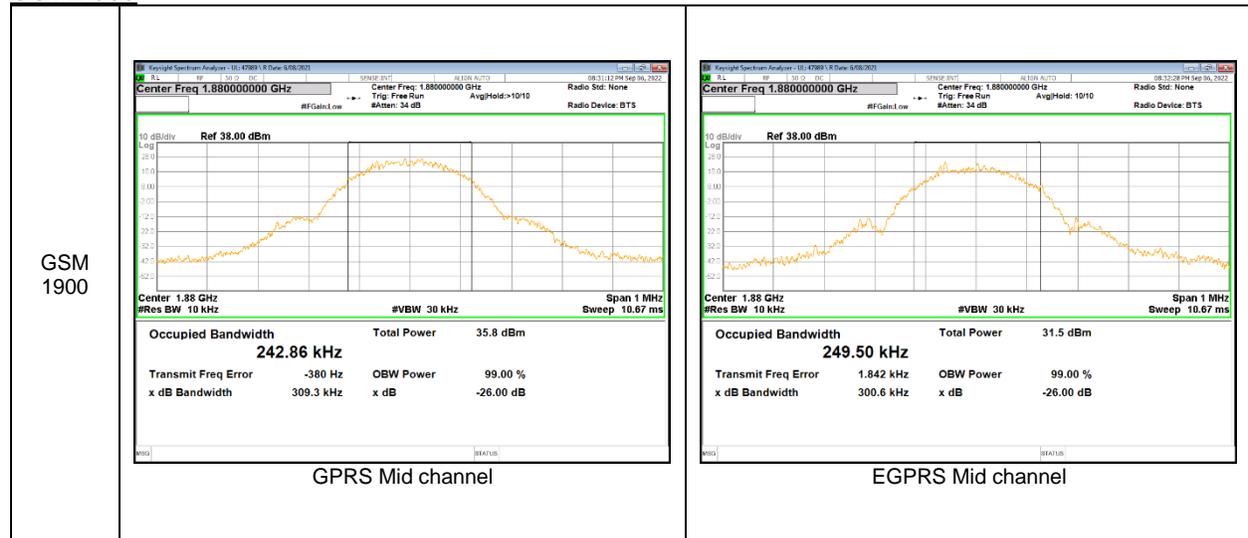
Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
NR n77	100M	QPSK	3840.0	97.345	100.4
		16QAM		97.231	100.6
	90M	QPSK		87.414	90.27
		16QAM		87.383	90.15
	80M	QPSK		77.423	79.95
		16QAM		77.294	80.10
	70M	QPSK		67.441	69.74
		16QAM		67.465	69.83
	60M	QPSK		57.849	59.88
		16QAM		57.825	59.73
	50M	QPSK		47.288	49.27
		16QAM		47.445	49.25
	40M	QPSK		37.871	39.15
		16QAM		37.871	39.01
	30M	QPSK		27.844	28.92
		16QAM		27.887	29.09
	20M	QPSK		18.210	19.36
		16QAM		18.230	19.54
	15M	QPSK		13.565	15.02
		16QAM		13.548	14.84
10M	QPSK	8.596	9.88		
	16QAM	8.558	9.74		

### 9.1.1. OCCUPIED BANDWIDTH RESULTS

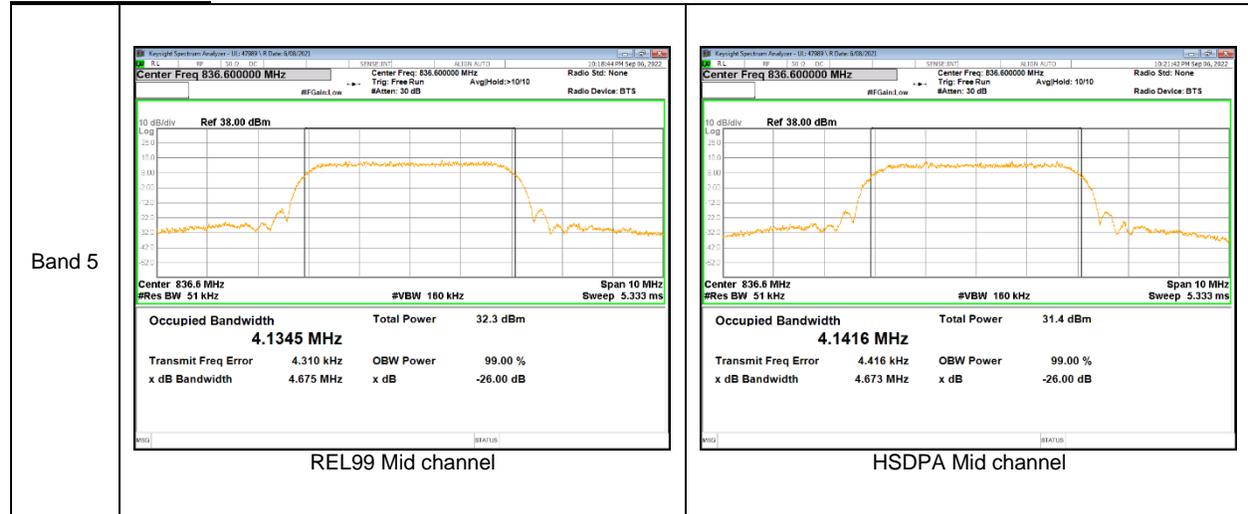
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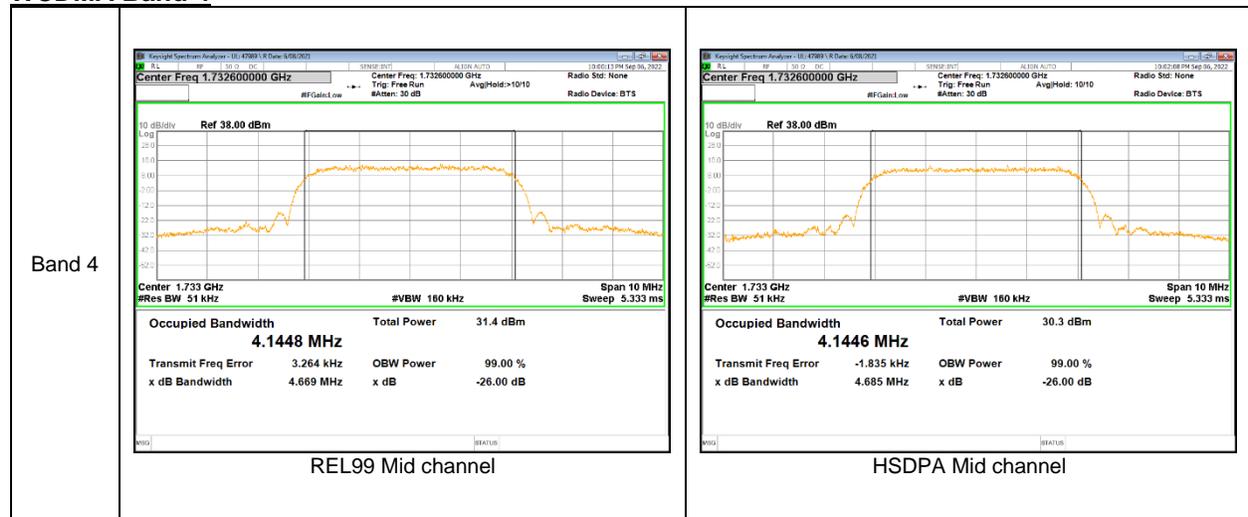
#### GSM 1900



**WCDMA Band 5**



**WCDMA Band 4**



**WCDMA Band 2**



**LTE Band 5**



**LTE Band 12**



**LTE Band 13**



**LTE Band 25**

