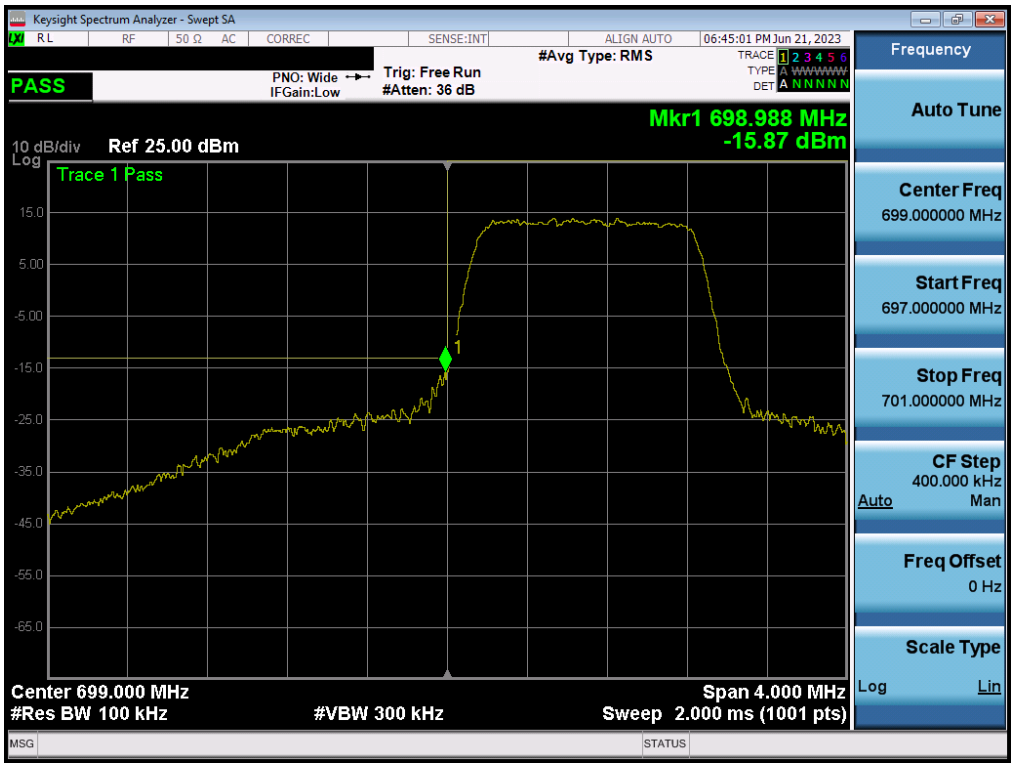
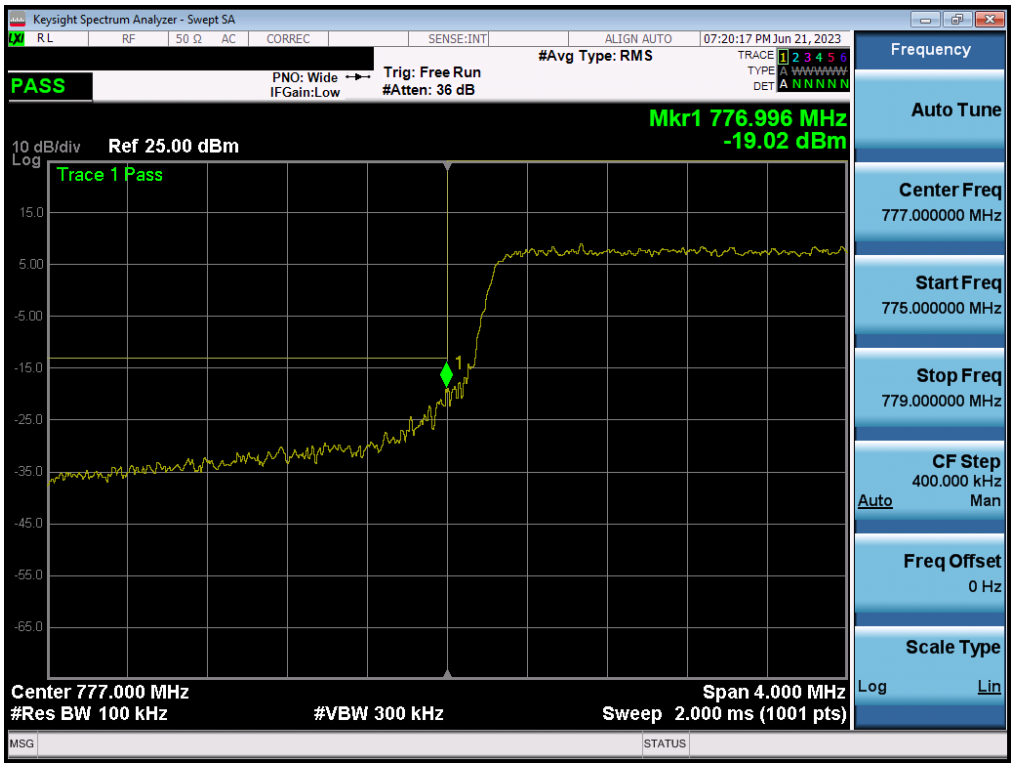
LTE Band 12 – Ant A



Plot 7-93. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB – Ant A)

Plot 7-94. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB – Ant A)

LTE Band 13 – Ant A



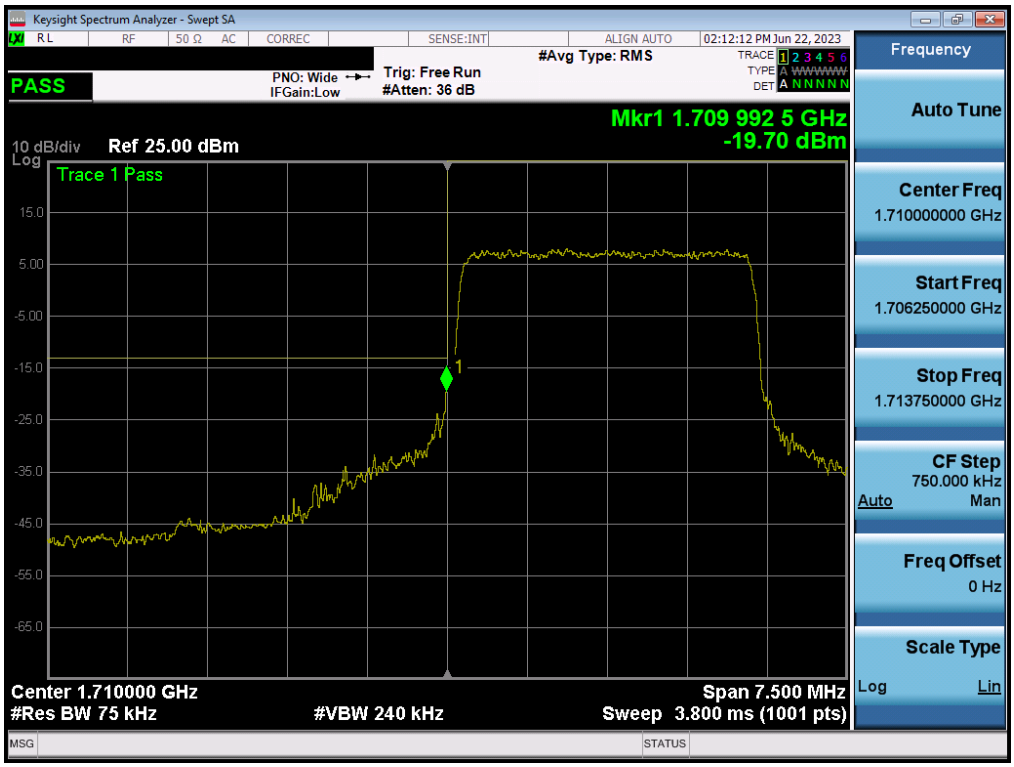
Plot 7-95. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB – Ant A)

Plot 7-96. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB – Ant A)

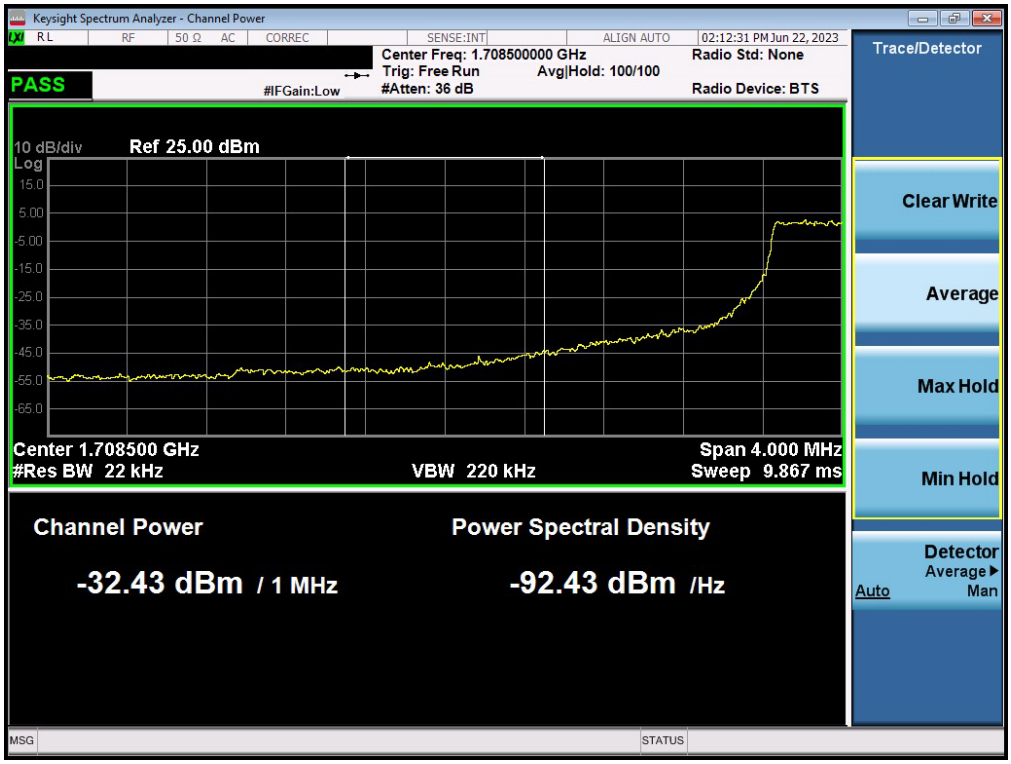
Plot 7-97. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB – Ant A)

Plot 7-98. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB – Ant A)

LTE Band 66/4 – Ant A

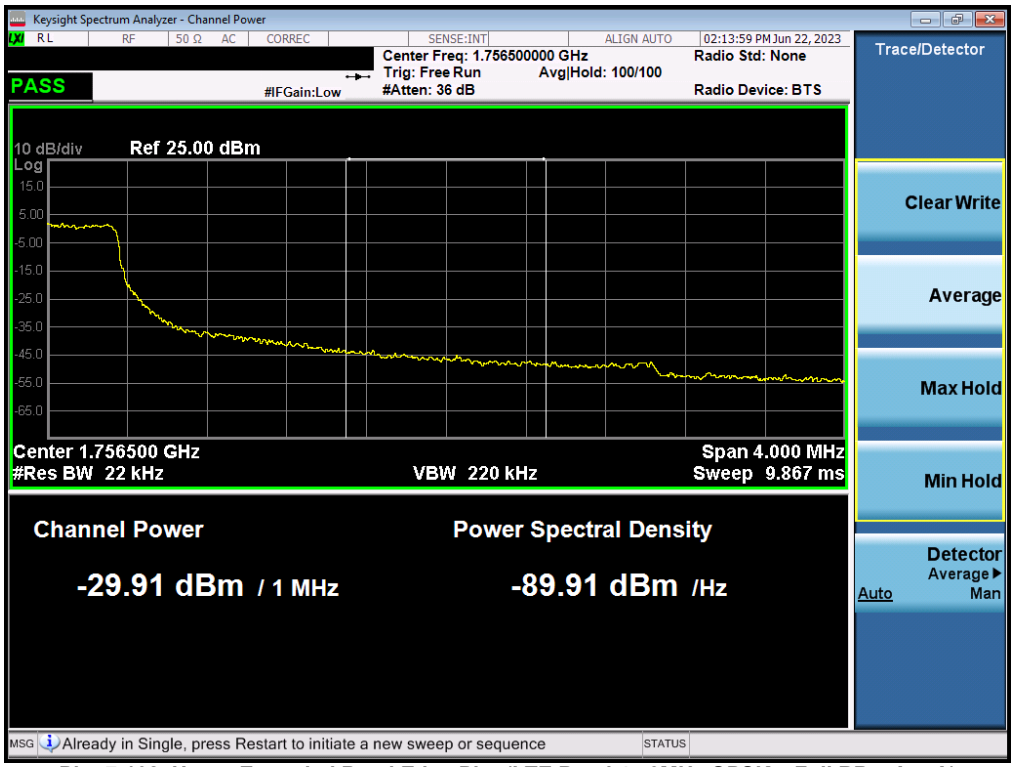


Plot 7-99. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB – Ant A)



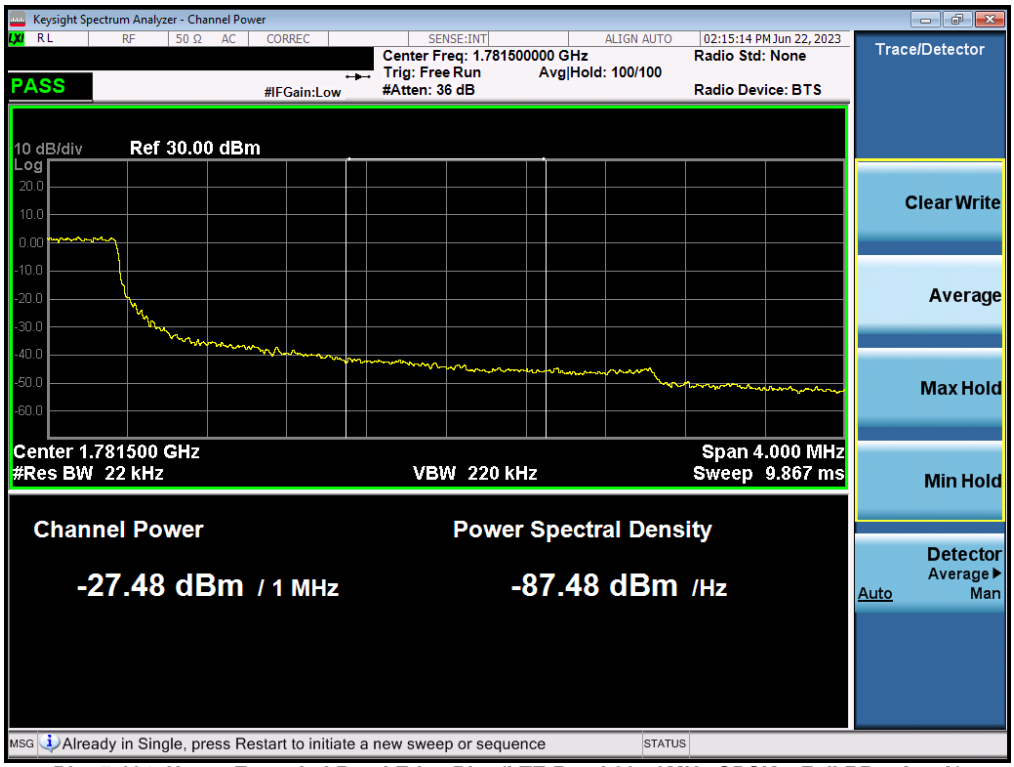
Plot 7-100. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB – Ant A)

Plot 7-101. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB – Ant A)



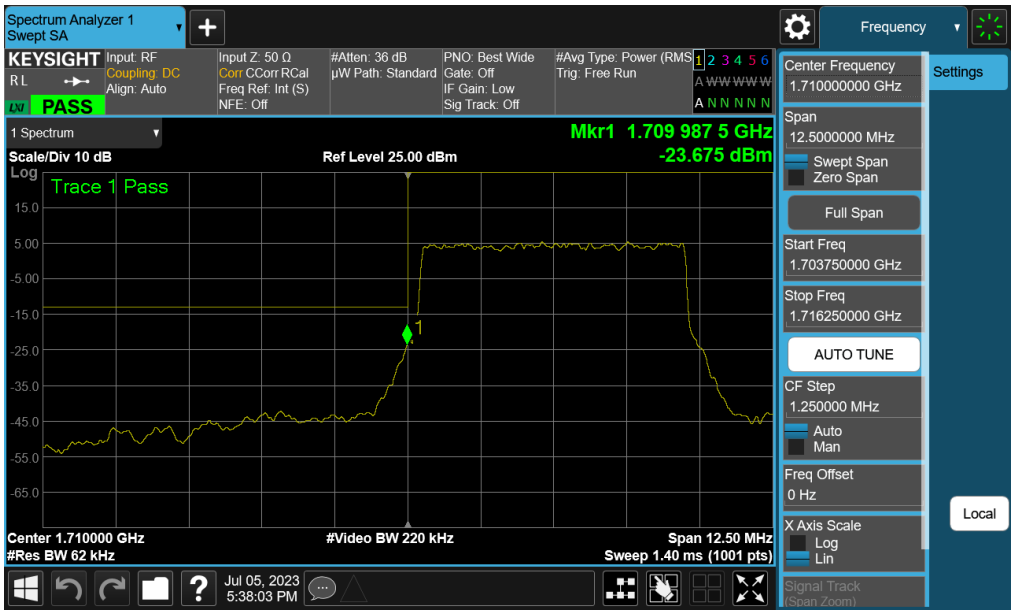
Plot 7-102. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB – Ant A)

Plot 7-103. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB – Ant A)

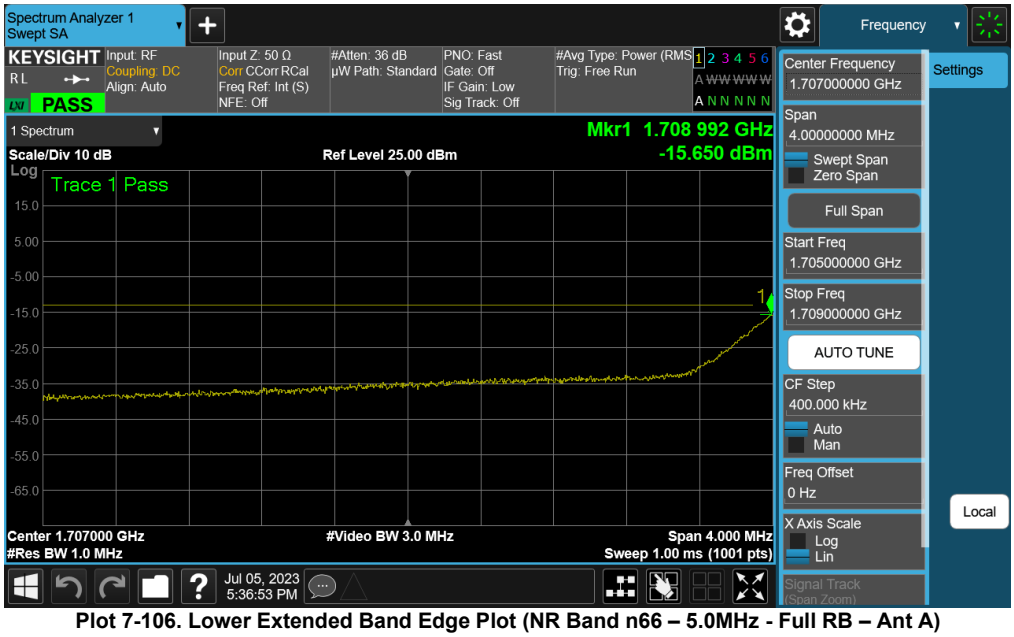


Plot 7-104. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB – Ant A)

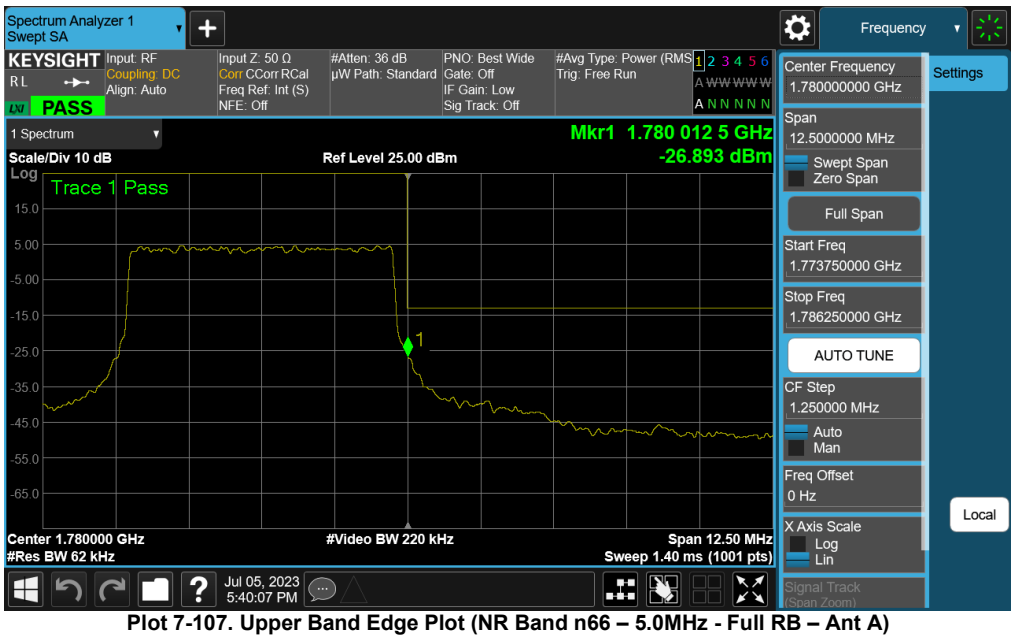
NR Band n66 – Ant A



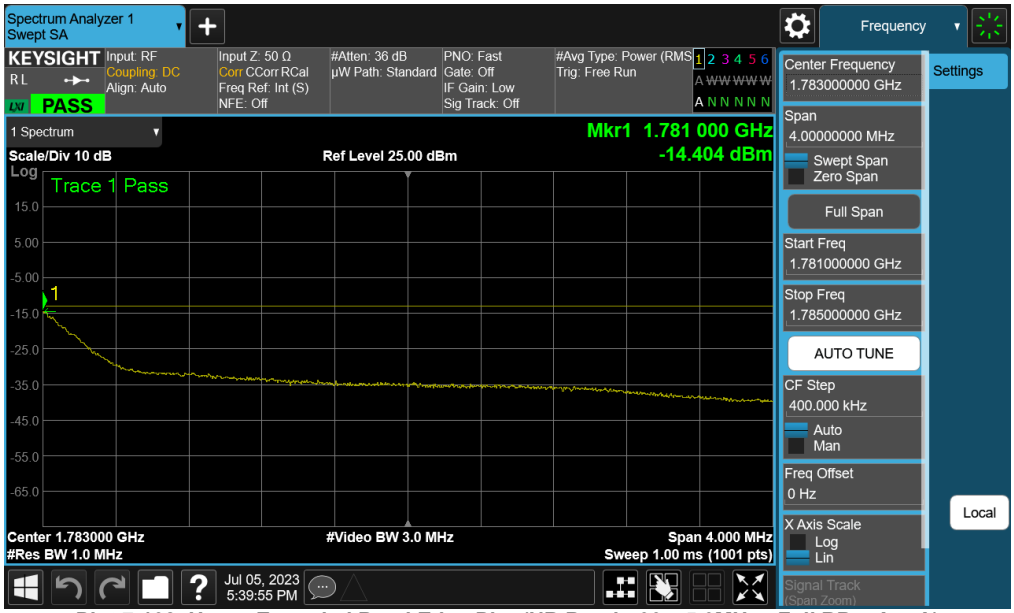
Plot 7-105. Lower Band Edge Plot (NR Band n66 – 5.0MHz - Full RB – Ant A)



Plot 7-106. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB – Ant A)



Plot 7-107. Upper Band Edge Plot (NR Band n66 – 5.0MHz - Full RB – Ant A)



Plot 7-108. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB – Ant A)

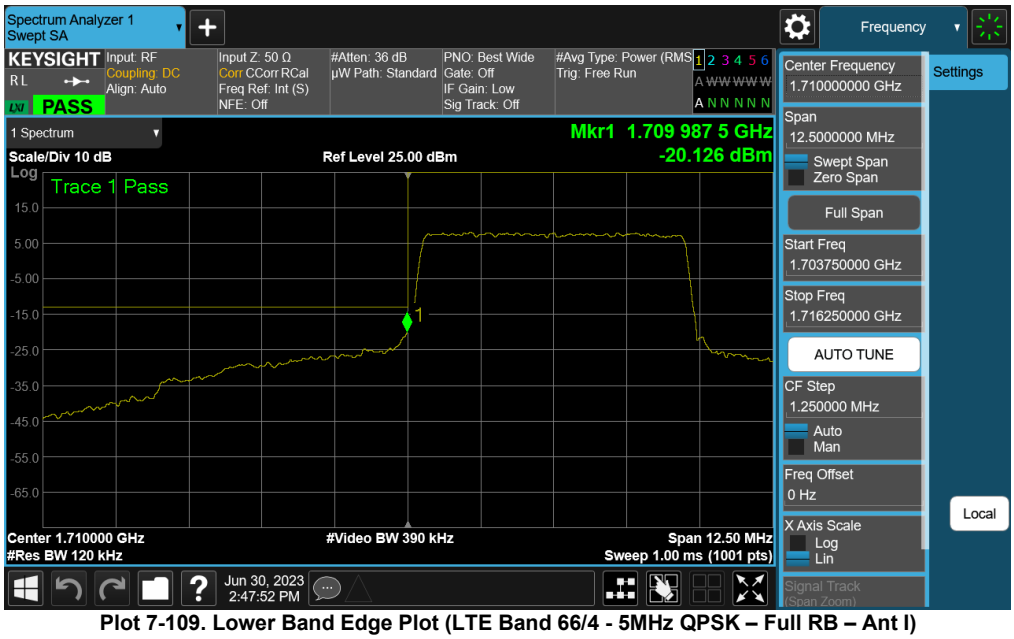
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66/4	20MHz	Low	Band Edge	-23.25	-13	-10.25
		Low	Extended	-20.89	-13	-7.89
		High (B4)	Band Edge	-27.72	-13	-14.72
		High (B4)	Extended	-26.29	-13	-13.29
		High (B66)	Band Edge	-26.54	-13	-13.54
		High (B66)	Extended	-24.46	-13	-11.46
	15MHz	Low	Band Edge	-22.16	-13	-9.16
		Low	Extended	-18.42	-13	-5.42
		High (B4)	Band Edge	-26.10	-13	-13.10
		High (B4)	Extended	-22.57	-13	-9.57
		High (B66)	Band Edge	-26.74	-13	-13.74
		High (B66)	Extended	-22.60	-13	-9.60
	10MHz	Low	Band Edge	-23.79	-13	-10.79
		Low	Extended	-20.21	-13	-7.21
		High (B4)	Band Edge	-26.52	-13	-13.52
		High (B4)	Extended	-25.07	-13	-12.07
		High (B66)	Band Edge	-27.00	-13	-14.00
		High (B66)	Extended	-22.25	-13	-9.25
	5MHz	Low	Band Edge	-20.13	-13	-7.13
		Low	Extended	-18.47	-13	-5.47
		High (B4)	Band Edge	-23.76	-13	-10.76
		High (B4)	Extended	-23.49	-13	-10.49
		High (B66)	Band Edge	-21.69	-13	-8.69
		High (B66)	Extended	-22.86	-13	-9.86
	3MHz	Low	Band Edge	-18.81	-13	-5.81
		Low	Extended	-18.48	-13	-5.48
		High (B4)	Band Edge	-21.02	-13	-8.02
		High (B4)	Extended	-23.39	-13	-10.39
		High (B66)	Band Edge	-19.70	-13	-6.70
		High (B66)	Extended	-21.85	-13	-8.85
	1.4MHz	Low	Band Edge	-20.39	-13	-7.39
		Low	Extended	-27.99	-13	-14.99
		High (B4)	Band Edge	-22.96	-13	-9.96
		High (B4)	Extended	-28.50	-13	-15.50
		High (B66)	Band Edge	-22.10	-13	-9.10
		High (B66)	Extended	-26.50	-13	-13.50

Table 7-13. Band Edge Test Results – LTE B66/4 – Ant I

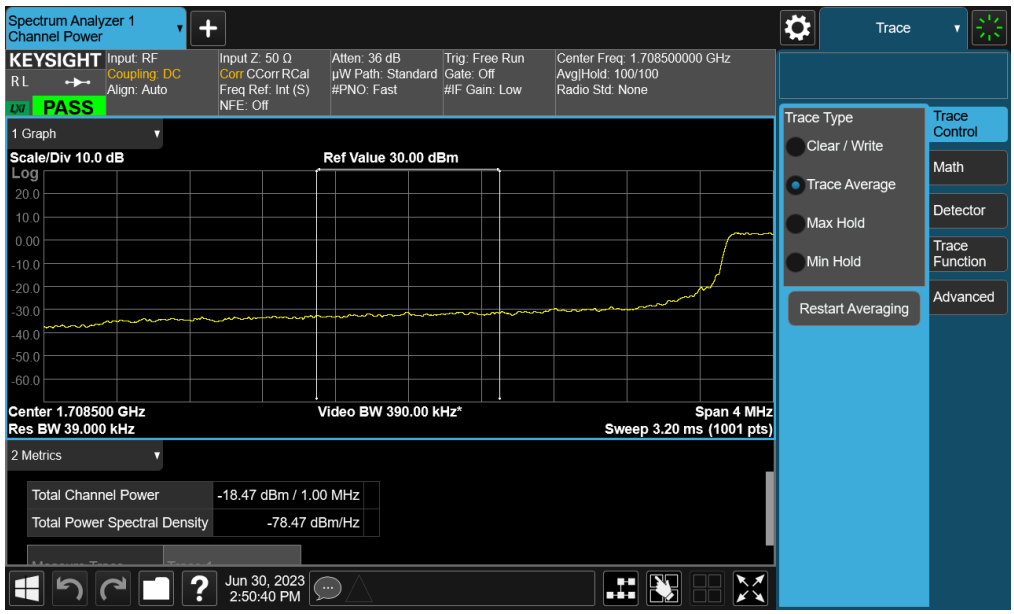
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n66	40 MHz	Low	Band Edge	-24.34	-13	-11.34
		Low	Extended	-21.57	-13	-8.57
		High	Band Edge	-20.97	-13	-7.97
		High	Extended	-19.69	-13	-6.69
	30 MHz	Low	Band Edge	-22.69	-13	-9.69
		Low	Extended	-21.24	-13	-8.24
		High	Band Edge	-23.66	-13	-10.66
		High	Extended	-22.39	-13	-9.39
	25 MHz	Low	Band Edge	-29.02	-13	-16.02
		Low	Extended	-22.96	-13	-9.96
		High	Band Edge	-28.40	-13	-15.40
		High	Extended	-22.91	-13	-9.91
	20 MHz	Low	Band Edge	-24.28	-13	-11.28
		Low	Extended	-19.36	-13	-6.36
		High	Band Edge	-27.16	-13	-14.16
		High	Extended	-21.48	-13	-8.48
	15 MHz	Low	Band Edge	-23.47	-13	-10.47
		Low	Extended	-17.49	-13	-4.49
		High	Band Edge	-24.69	-13	-11.69
		High	Extended	-18.92	-13	-5.92
	10 MHz	Low	Band Edge	-21.32	-13	-8.32
		Low	Extended	-15.25	-13	-2.25
		High	Band Edge	-24.82	-13	-11.82
		High	Extended	-15.83	-13	-2.83
	5 MHz	Low	Band Edge	-21.42	-13	-8.42
		Low	Extended	-15.75	-13	-2.75
		High	Band Edge	-23.46	-13	-10.46
		High	Extended	-16.07	-13	-3.07

Table 7-14. Band Edge Test Results – NR n66 – Ant I

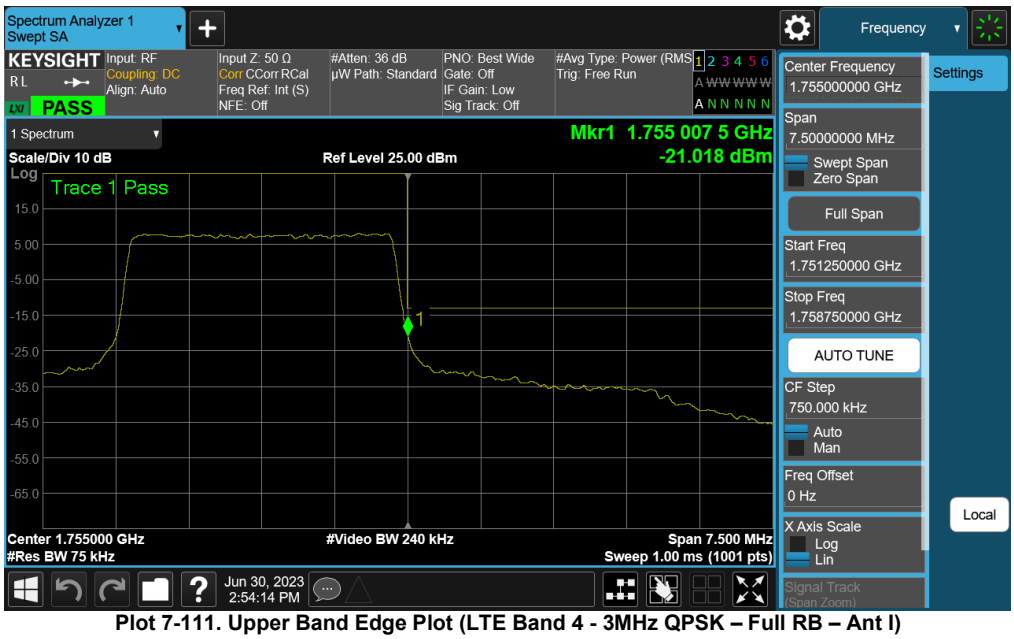
LTE Band 66/4 – Ant I



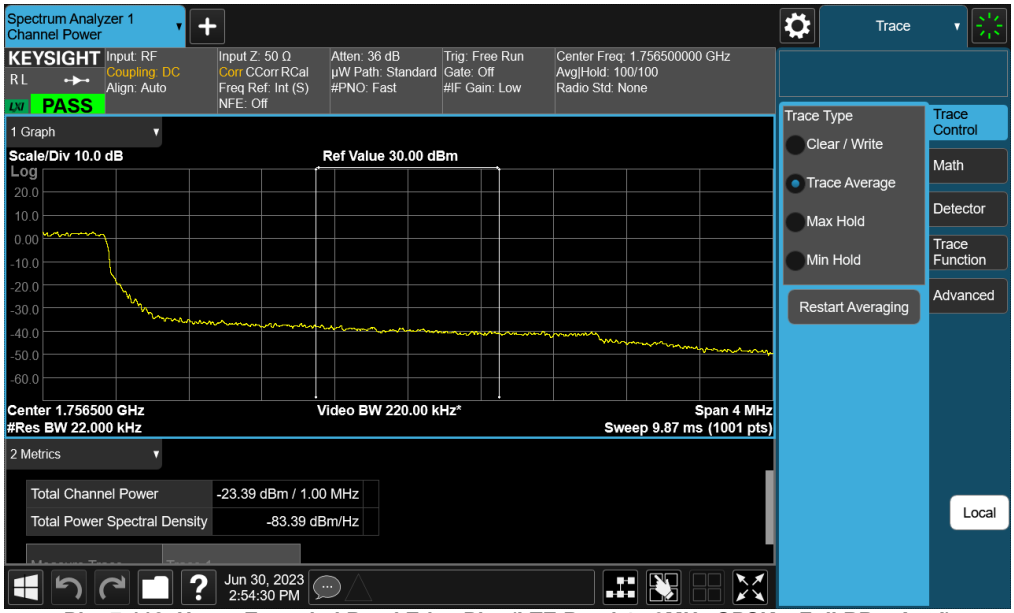
Plot 7-109. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB – Ant I)



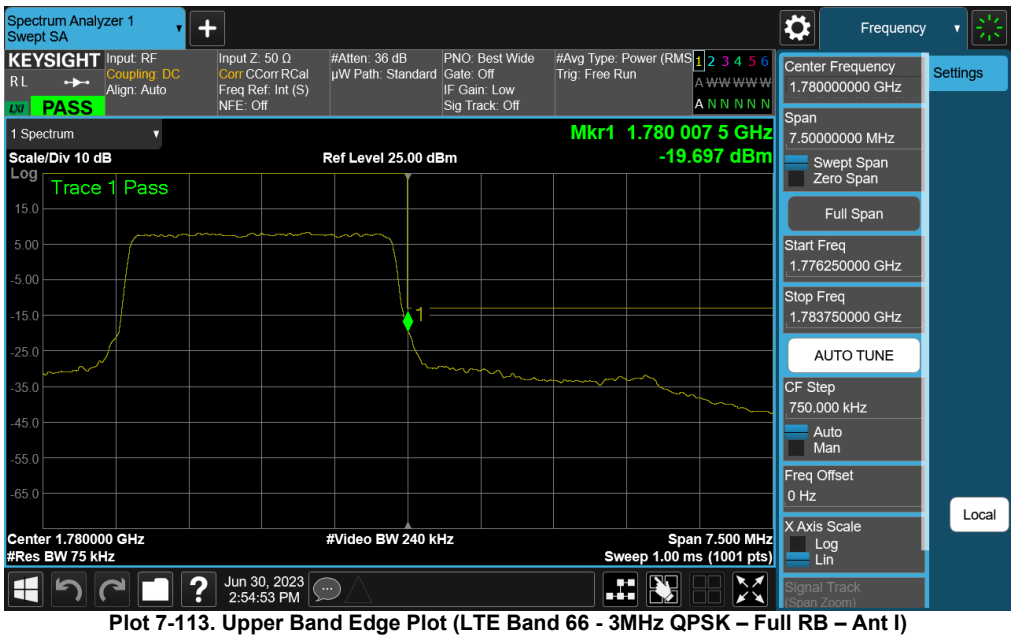
Plot 7-110. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB – Ant I)



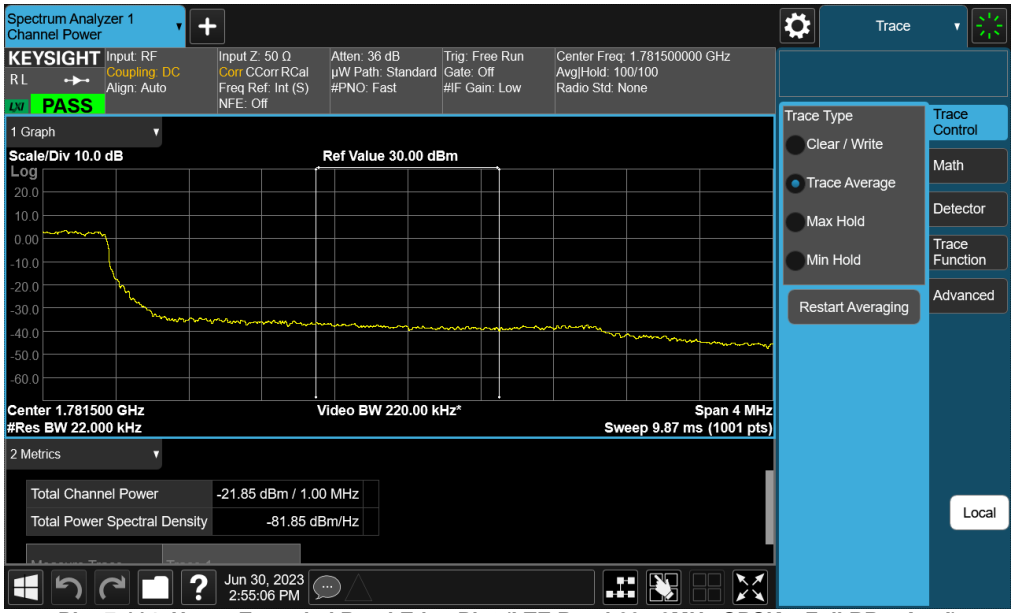
Plot 7-111. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB – Ant I)



Plot 7-112. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB – Ant I)

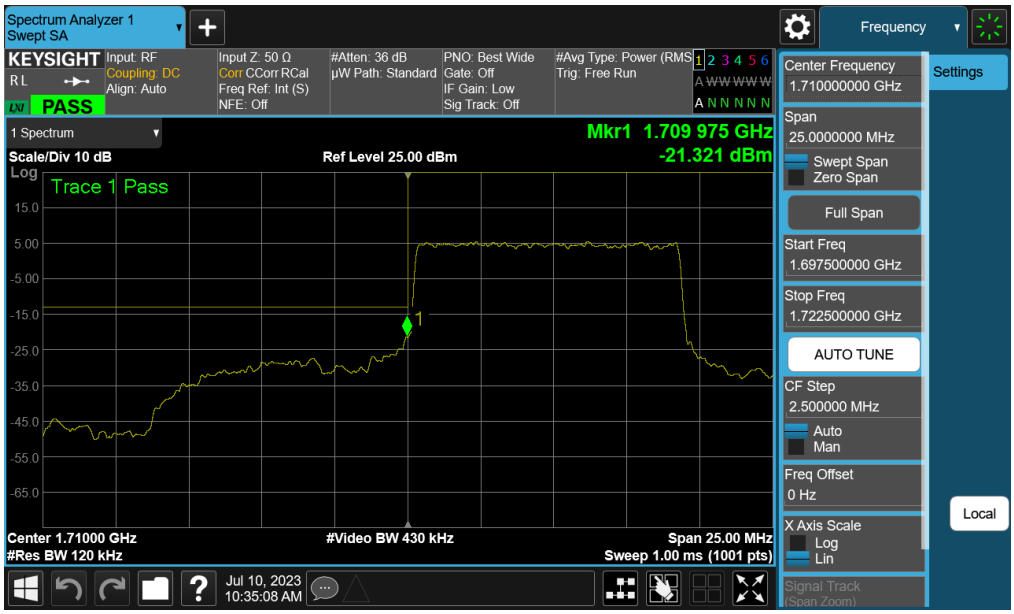


Plot 7-113. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB – Ant I)

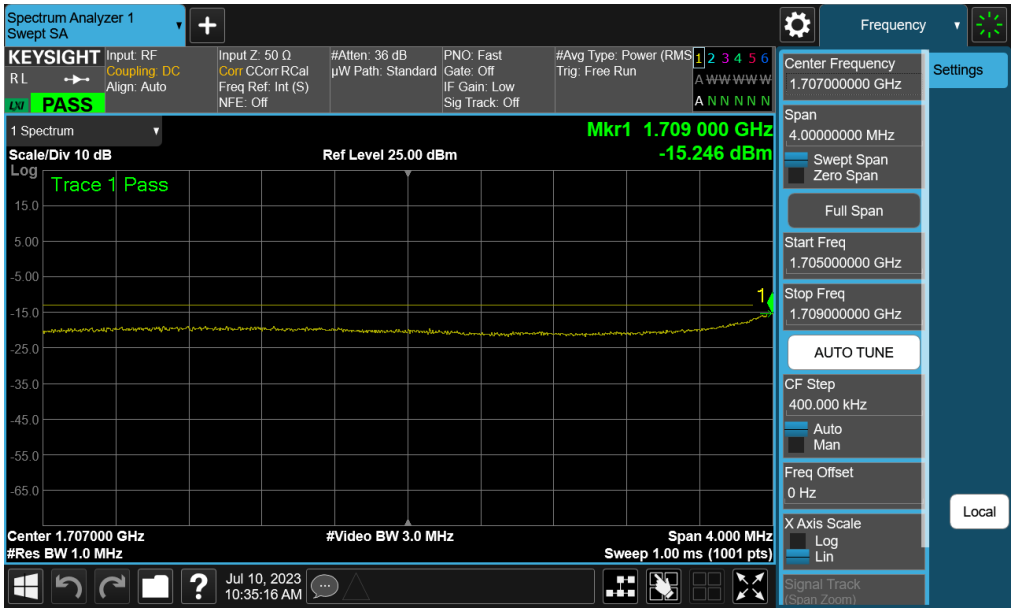


Plot 7-114. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB – Ant I)

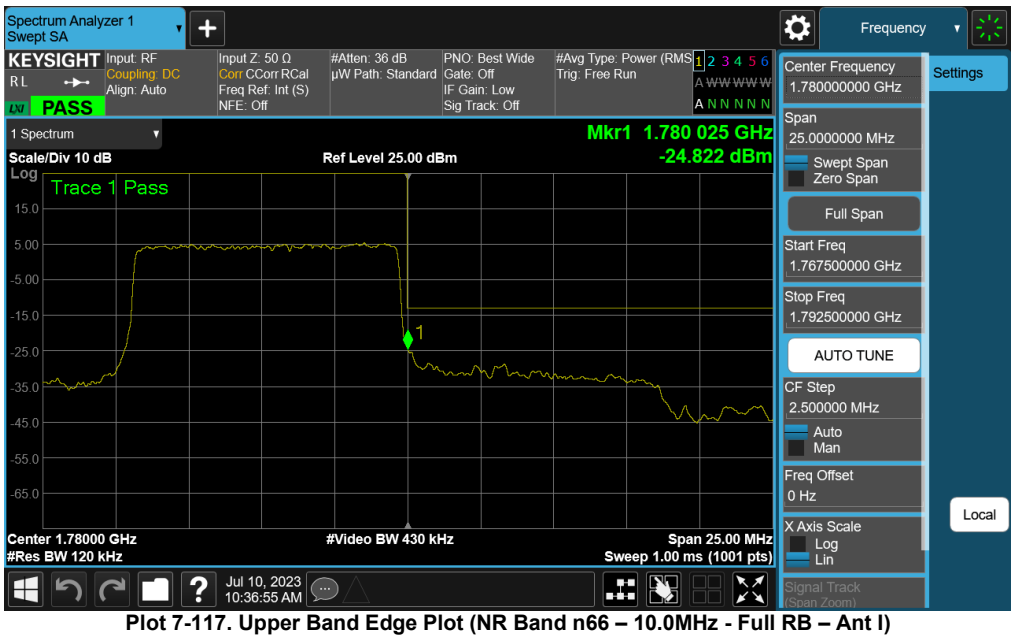
NR Band n66 – Ant I



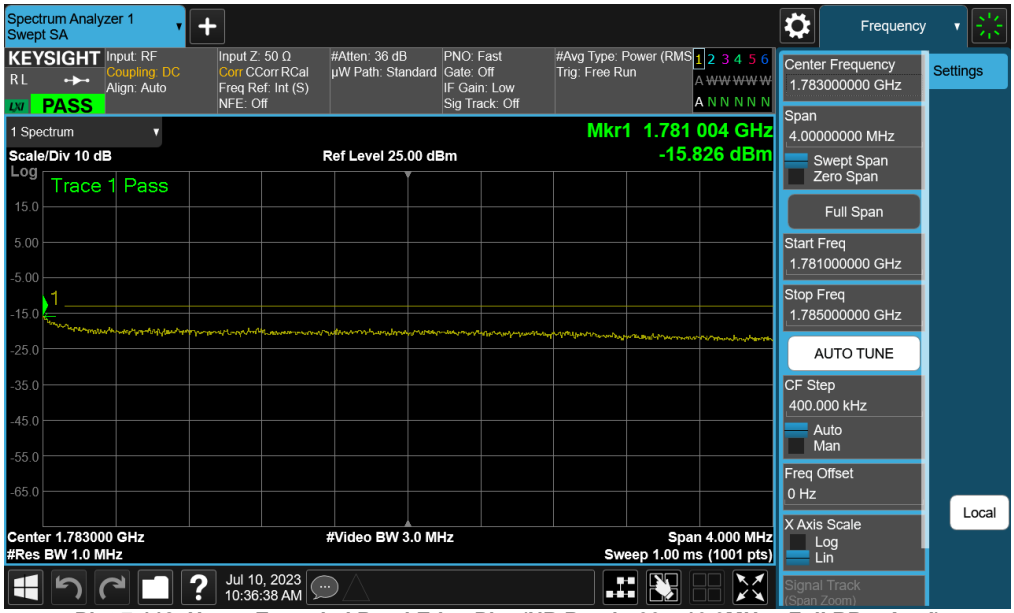
Plot 7-115. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB – Ant I)



Plot 7-116. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB – Ant I)



Plot 7-117. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB – Ant I)



Plot 7-118. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB – Ant I)

7.6 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW ≥ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

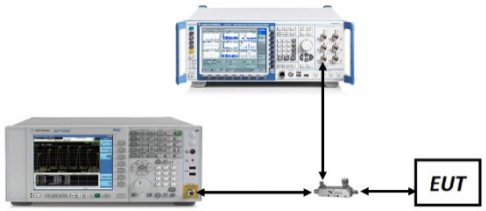


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

For the QAM modulations, only the QAM that produced the worst-case peak-to-average ratio was included in this section.

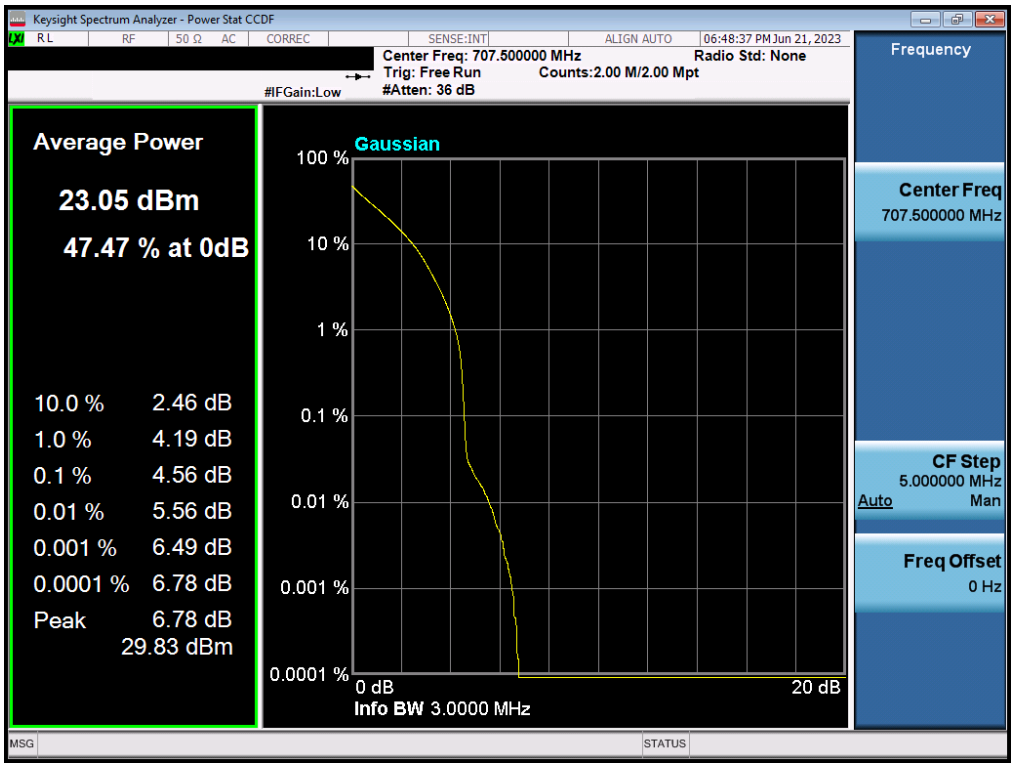
Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE Band 12	10 MHz	QPSK	22.07	4.84	13.00	-8.16
		64QAM	21.11	6.38	13.00	-6.62
	5 MHz	QPSK	23.03	4.79	13.00	-8.21
		64QAM	21.09	6.37	13.00	-6.63
	3 MHz	QPSK	23.05	4.56	13.00	-8.44
		64QAM	21.09	6.41	13.00	-6.59
	1.4 MHz	QPSK	23.00	4.86	13.00	-8.14
		64QAM	21.06	6.39	13.00	-6.61
LTE Band 13	10 MHz	QPSK	22.44	4.84	13.00	-8.16
		64QAM	21.45	6.39	13.00	-6.61
	5 MHz	QPSK	23.39	4.83	13.00	-8.17
		64QAM	21.42	6.42	13.00	-6.58

Table 7-15. PAR Test Results – Below 1GHz – Ant A

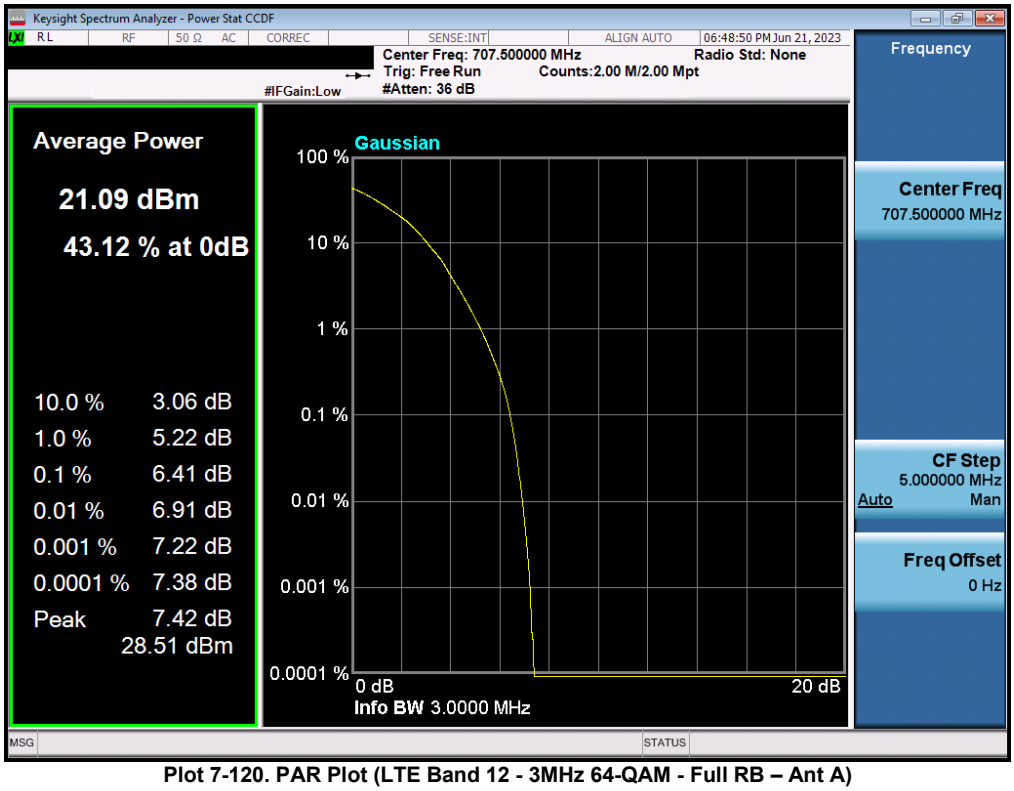
Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE Band 66/4	20 MHz	QPSK	21.65	4.78	13.00	-8.22
		64QAM	19.68	6.44	13.00	-6.56
	15 MHz	QPSK	21.69	4.90	13.00	-8.10
		64QAM	19.66	6.45	13.00	-6.55
	10 MHz	QPSK	20.74	4.90	13.00	-8.10
		64QAM	19.79	6.48	13.00	-6.52
	5 MHz	QPSK	21.73	4.79	13.00	-8.21
		64QAM	19.77	6.46	13.00	-6.54
	3 MHz	QPSK	21.73	4.65	13.00	-8.35
		64QAM	19.79	6.56	13.00	-6.44
	1.4 MHz	QPSK	21.70	4.96	13.00	-8.04
		64QAM	19.77	6.55	13.00	-6.45
NR Band n66	40 MHz	π/2 BPSK	21.62	4.76	13.00	-8.24
		QPSK	19.14	8.22	13.00	-4.78
		256QAM	15.68	8.32	13.00	-4.68
	30 MHz	π/2 BPSK	21.52	4.91	13.00	-8.09
		QPSK	19.06	8.44	13.00	-4.56
		256QAM	15.55	8.27	13.00	-4.73
	25 MHz	π/2 BPSK	22.07	4.79	13.00	-8.21
		QPSK	19.84	8.39	13.00	-4.61
		256QAM	16.16	8.41	13.00	-4.59
	20 MHz	π/2 BPSK	22.00	4.72	13.00	-8.28
		QPSK	19.53	8.34	13.00	-4.66
		256QAM	15.99	8.38	13.00	-4.62
	15 MHz	π/2 BPSK	22.05	4.84	13.00	-8.16
		QPSK	19.58	8.34	13.00	-4.66
		256QAM	16.06	8.23	13.00	-4.77
	10 MHz	π/2 BPSK	21.90	4.41	13.00	-8.59
		QPSK	19.39	8.50	13.00	-4.50
		256QAM	15.95	8.41	13.00	-4.59
	5 MHz	π/2 BPSK	21.87	5.00	13.00	-8.00
		QPSK	19.33	8.47	13.00	-4.53
		256QAM	15.92	8.22	13.00	-4.78

Table 7-16. PAR Test Results – Above 1GHz – Ant A

LTE Band 12 – Ant A

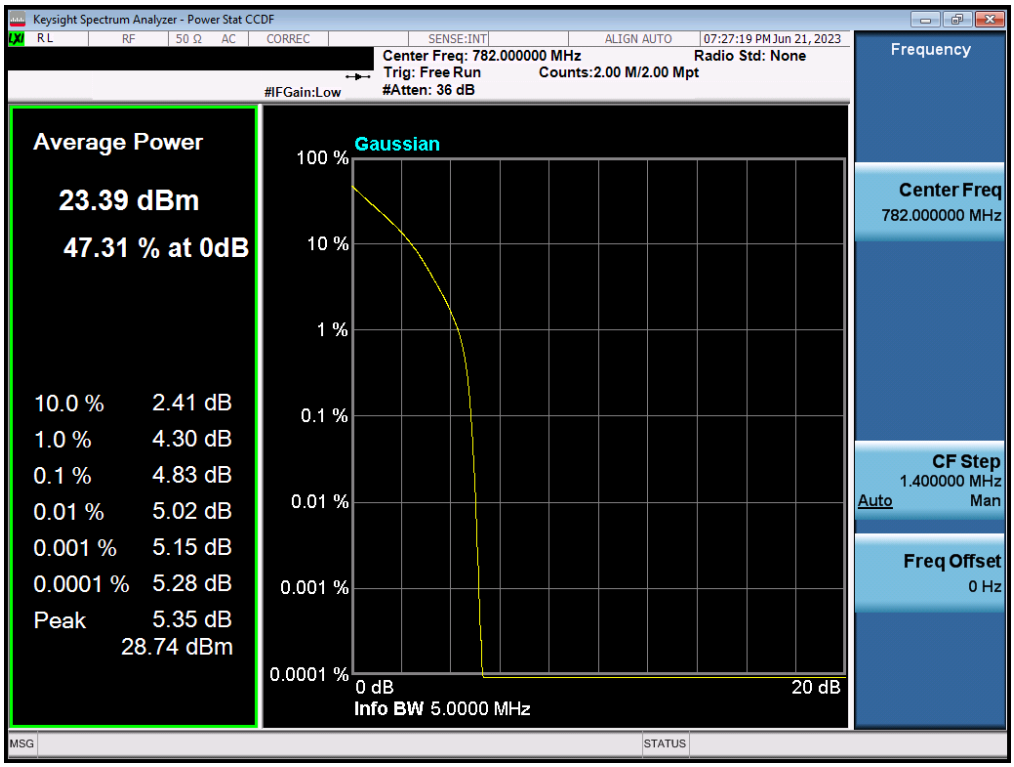


Plot 7-119. PAR Plot (LTE Band 12 - 3MHz QPSK - Full RB – Ant A)

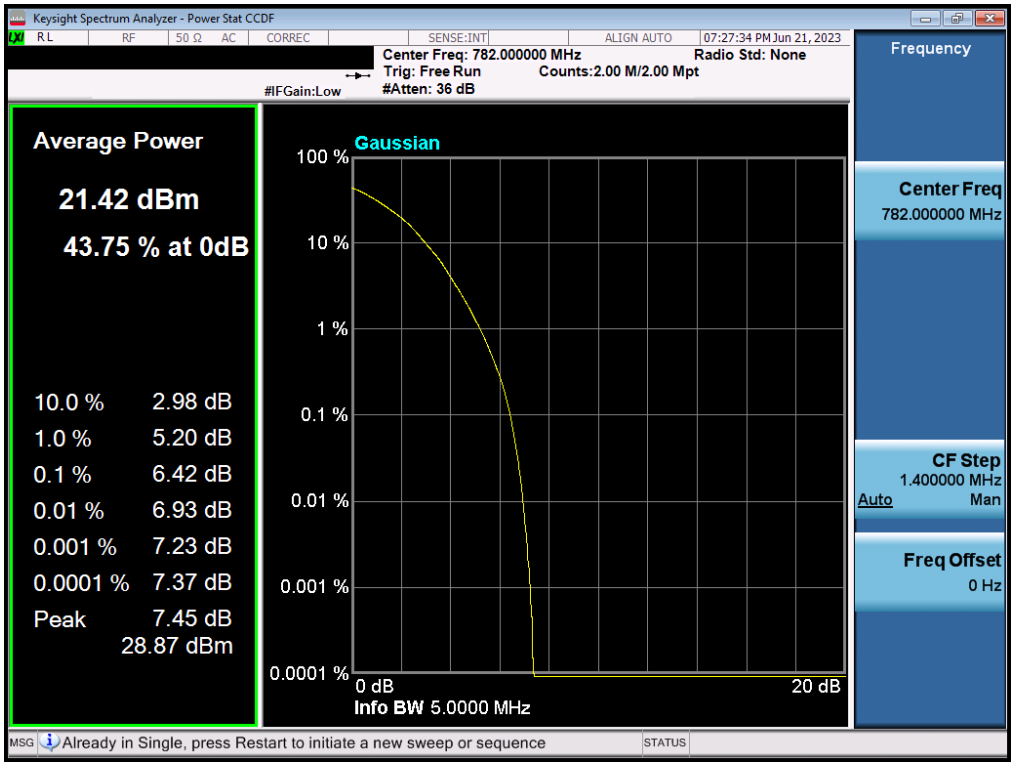


Plot 7-120. PAR Plot (LTE Band 12 - 3MHz 64-QAM - Full RB – Ant A)

LTE Band 13 – Ant A

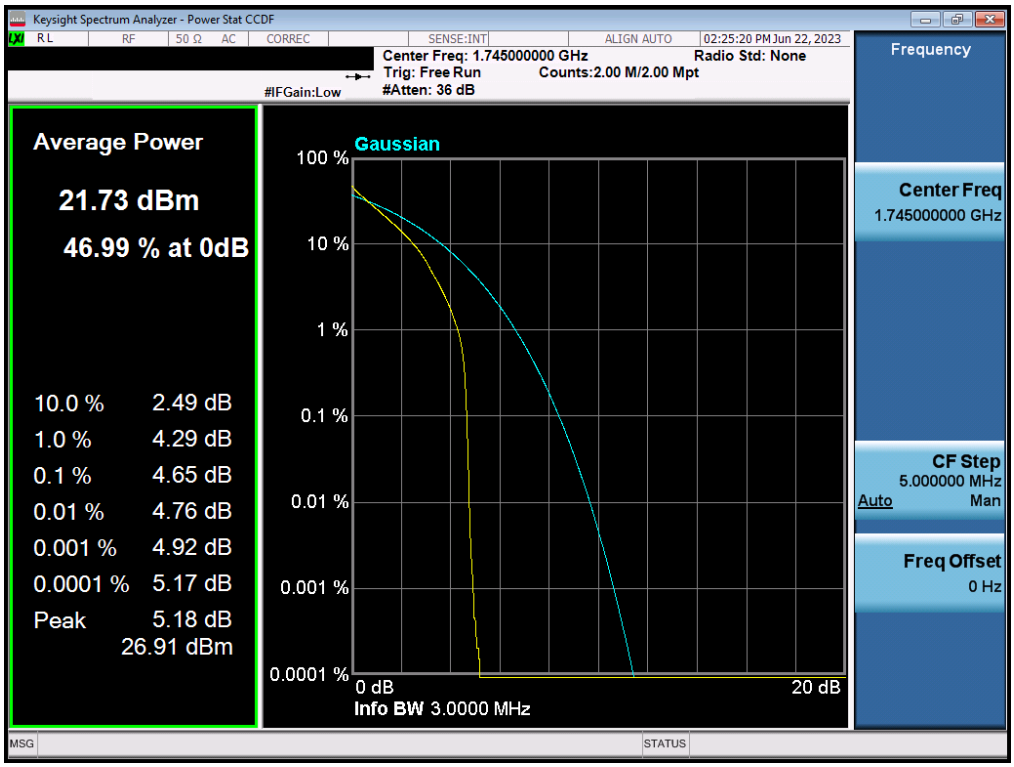


Plot 7-121. PAR Plot (LTE Band 13 - 5MHz QPSK - Full RB – Ant A)

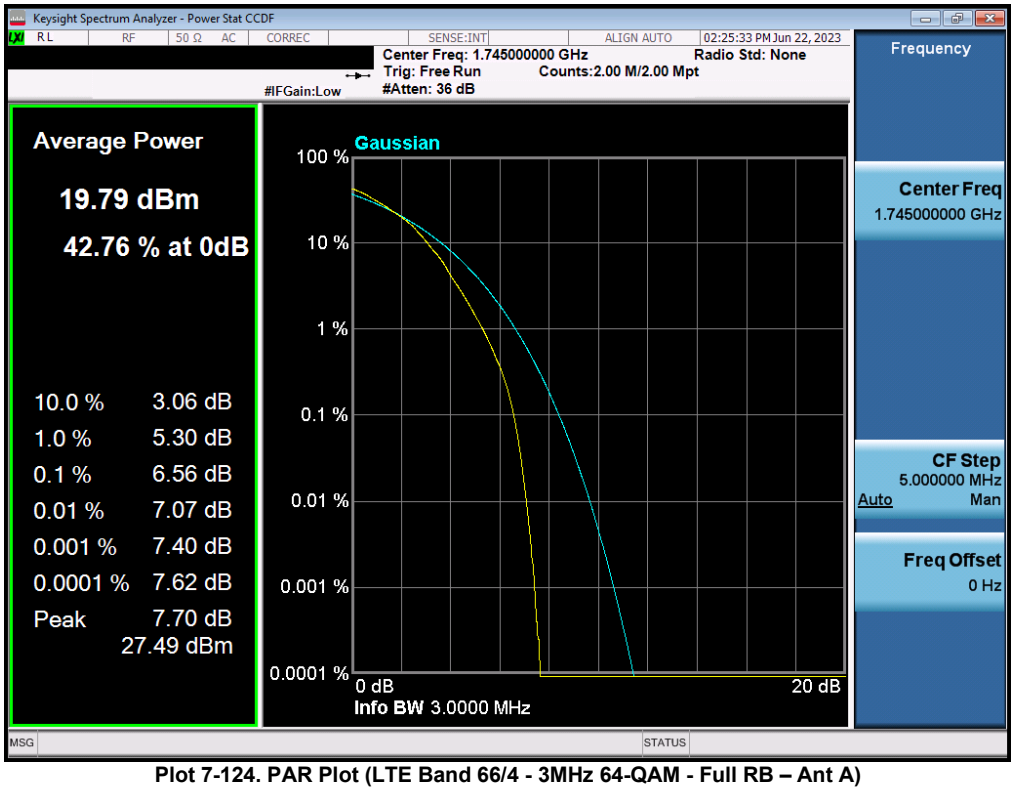


Plot 7-122. PAR Plot (LTE Band 13 - 5MHz 64-QAM - Full RB – Ant A)

LTE Band 66/4 – Ant A



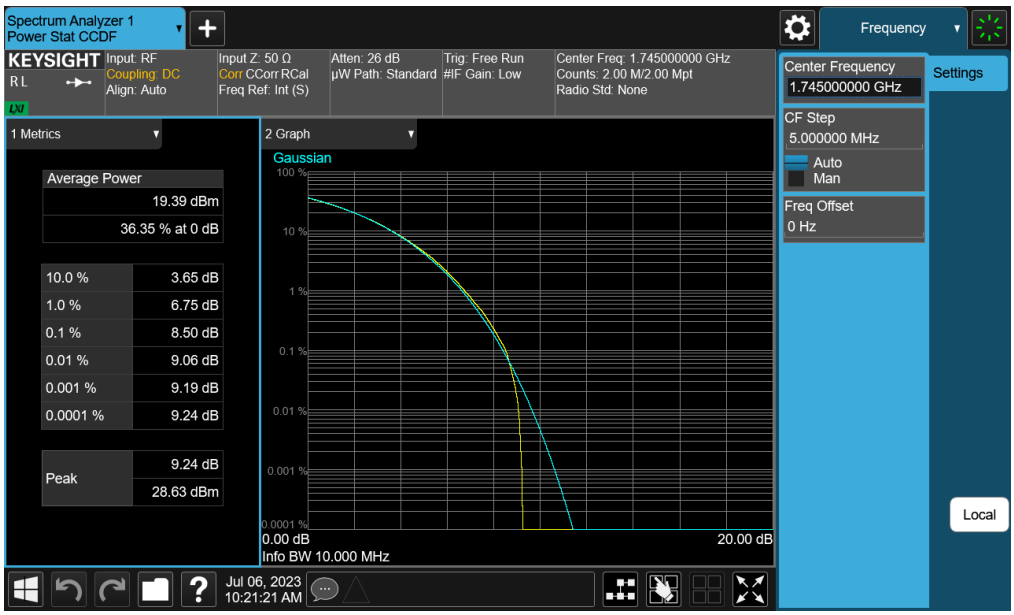
Plot 7-123. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB – Ant A)



Plot 7-124. PAR Plot (LTE Band 66/4 - 3MHz 64-QAM - Full RB – Ant A)

NR Band n66 – Ant A

Plot 7-125. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB – Ant A)



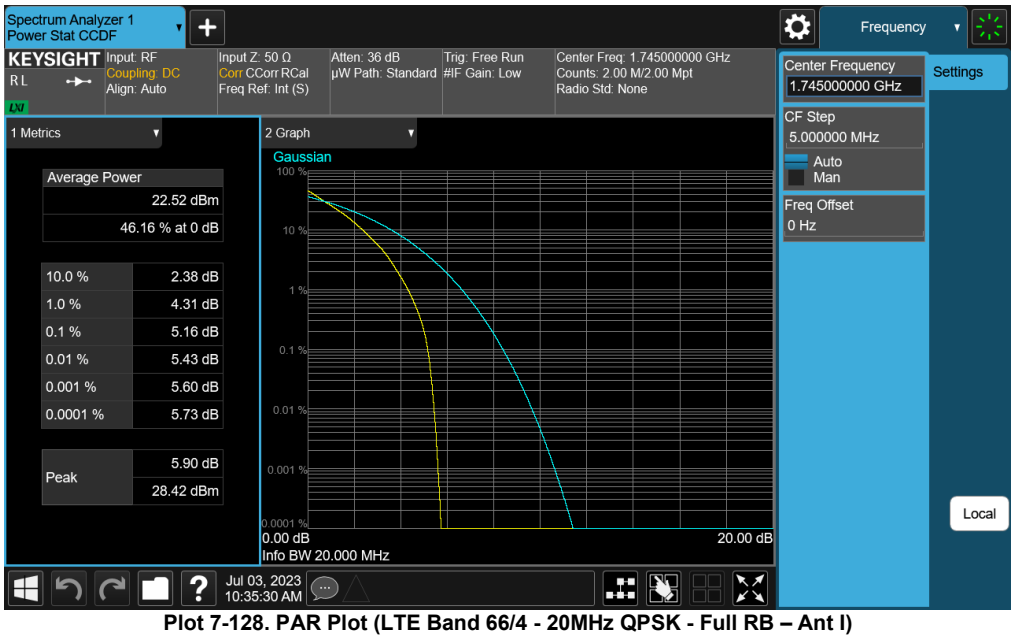
Plot 7-126. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB – Ant A)

Plot 7-127. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB – Ant A)

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE Band 66/4	20 MHz	QPSK	22.52	5.16	13.00	-7.84
		64QAM	20.61	6.50	13.00	-6.50
	15 MHz	QPSK	22.55	5.23	13.00	-7.77
		64QAM	20.50	6.47	13.00	-6.53
	10 MHz	QPSK	21.62	5.43	13.00	-7.57
		64QAM	20.55	6.43	13.00	-6.57
	5 MHz	QPSK	22.51	5.09	13.00	-7.91
		64QAM	20.59	6.41	13.00	-6.59
	3 MHz	QPSK	22.59	5.00	13.00	-8.00
		64QAM	20.56	6.43	13.00	-6.57
	1.4 MHz	QPSK	22.50	5.05	13.00	-7.95
		64QAM	20.56	6.44	13.00	-6.56
NR Band n66	40 MHz	π/2 BPSK	22.35	3.07	13.00	-9.93
		QPSK	19.94	5.81	13.00	-7.19
		256QAM	16.40	7.60	13.00	-5.40
	30 MHz	π/2 BPSK	22.42	2.83	13.00	-10.17
		QPSK	19.91	5.69	13.00	-7.31
		256QAM	16.37	7.49	13.00	-5.51
	25 MHz	π/2 BPSK	23.07	2.96	13.00	-10.04
		QPSK	20.57	5.59	13.00	-7.41
		256QAM	17.17	7.47	13.00	-5.53
	20 MHz	π/2 BPSK	22.57	2.62	13.00	-10.38
		QPSK	20.34	5.52	13.00	-7.48
		256QAM	16.76	7.31	13.00	-5.69
	15 MHz	π/2 BPSK	22.71	2.78	13.00	-10.22
		QPSK	20.46	5.38	13.00	-7.62
		256QAM	16.80	7.24	13.00	-5.76
	10 MHz	π/2 BPSK	22.70	2.67	13.00	-10.33
		QPSK	20.26	5.54	13.00	-7.46
		256QAM	16.67	7.26	13.00	-5.74
	5 MHz	π/2 BPSK	22.66	2.67	13.00	-10.33
		QPSK	20.22	5.38	13.00	-7.62
		256QAM	16.70	7.11	13.00	-5.89

Table 7-17. PAR Test Results – Above 1GHz – Ant I

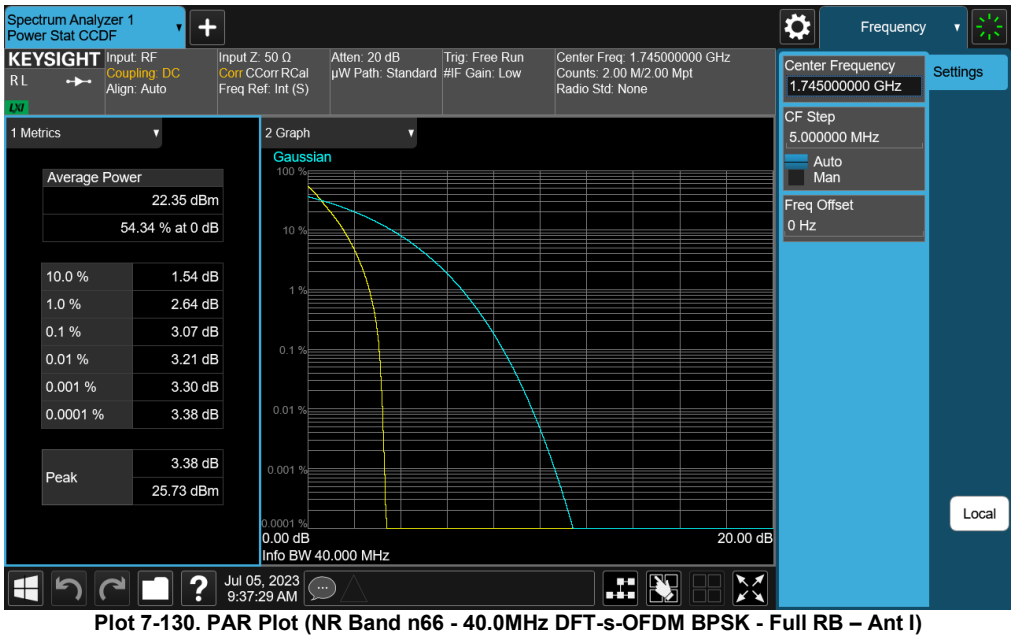
LTE Band 66/4 – Ant I



Plot 7-128. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB – Ant I)

Plot 7-129. PAR Plot (LTE Band 66/4 - 20MHz 64-QAM - Full RB – Ant I)

NR Band n66 – Ant I



Plot 7-130. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB – Ant I)

Plot 7-131. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB – Ant I)

Plot 7-132. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM 256-QAM - Full RB – Ant I)

7.7 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW ≥ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points ≥ 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

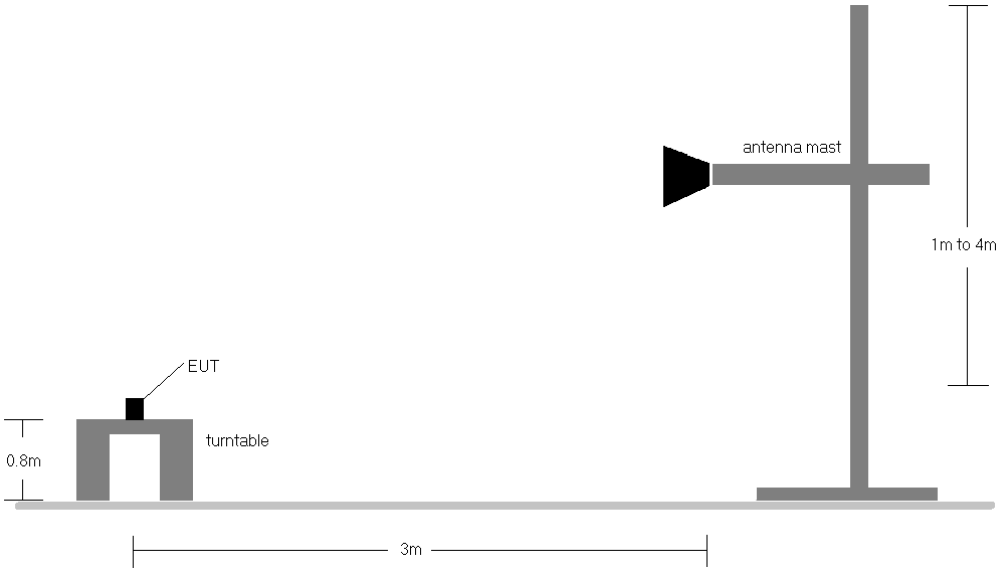


Figure 7-6. Radiated Test Setup <1GHz

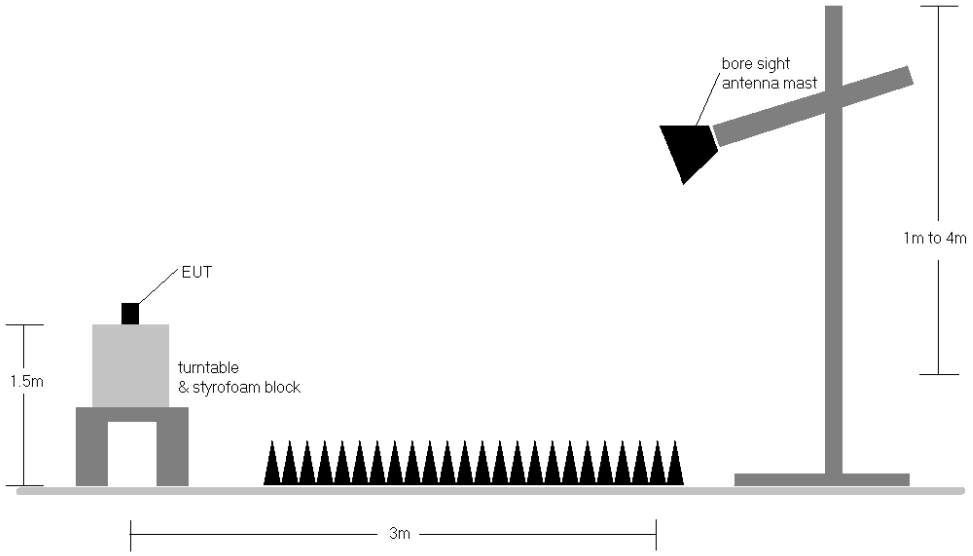


Figure 7-7. Radiated Test Setup >1GHz

Test Notes

1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

2) This unit was tested with its standard battery.

3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Config	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	H	Open	130	169	1.34	1 / 0	17.84	**19.18**	0.083	36.99	-17.81	**17.03**	0.050	34.77	-17.74
	QPSK	707.5	H	Open	126	166	1.33	1 / 0	17.78	19.11	0.082	36.99	-17.88	16.96	0.050	34.77	-17.81
	QPSK	711.0	H	Open	126	170	1.33	1 / 0	17.34	18.67	0.074	36.99	-18.32	16.52	0.045	34.77	-18.26
	16-QAM	704.0	H	Open	130	169	1.34	1 / 0	17.00	18.34	0.068	36.99	-18.65	16.19	0.042	34.77	-18.58
5 MHz	QPSK	701.5	H	Open	130	169	1.35	1 / 12	17.69	19.03	0.080	36.99	-17.96	16.88	0.049	34.77	-17.89
	QPSK	707.5	H	Open	126	166	1.33	1 / 12	17.75	**19.09**	0.081	36.99	-17.90	**16.94**	0.049	34.77	-17.84
	QPSK	713.5	H	Open	126	170	1.32	1 / 0	17.27	18.59	0.072	36.99	-18.40	16.44	0.044	34.77	-18.33
	16-QAM	707.5	H	Open	126	166	1.33	1 / 12	17.30	18.63	0.073	36.99	-18.36	16.48	0.044	34.77	-18.29
3 MHz	QPSK	700.5	H	Open	130	169	1.35	1 / 7	17.66	**19.01**	0.080	36.99	-17.98	**16.86**	0.049	34.77	-17.91
	QPSK	707.5	H	Open	126	166	1.33	1 / 7	17.63	18.97	0.079	36.99	-18.02	16.82	0.048	34.77	-17.95
	QPSK	714.5	H	Open	126	170	1.32	1 / 0	17.15	18.46	0.070	36.99	-18.53	16.31	0.043	34.77	-18.46
	16-QAM	700.5	H	Open	130	169	1.35	1 / 7	16.69	18.04	0.064	36.99	-18.95	15.89	0.039	34.77	-18.88
1.4 MHz	QPSK	699.7	H	Open	130	169	1.35	1 / 0	17.53	18.88	0.077	36.99	-18.11	16.73	0.047	34.77	-18.04
	QPSK	707.5	H	Open	126	166	1.33	1 / 0	17.67	**19.01**	0.080	36.99	-17.98	**16.86**	0.048	34.77	-17.91
	QPSK	715.3	H	Open	126	170	1.32	1 / 0	17.17	18.49	0.071	36.99	-18.50	16.34	0.043	34.77	-18.43
	16-QAM	707.5	H	Open	126	166	1.33	1 / 3	17.14	18.47	0.070	36.99	-18.52	16.32	0.043	34.77	-18.45
10 MHz	QPSK (Opposite Pol.)	704.0	V	Open	151	344	1.34	1 / 0	17.16	18.50	0.071	36.99	-18.49	16.35	0.043	34.77	-18.42
	QPSK (WCP)	704.0	H	Open	131	168	1.34	1 / 0	15.83	17.17	0.052	36.99	-19.82	15.02	0.032	34.77	-19.75
	QPSK	704.0	H	Half	132	220	1.34	1 / 25	17.74	19.08	0.081	36.99	-17.91	16.93	0.049	34.77	-17.84

Table 7-18. ERP Data (LTE Band 12 – Ant A)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Config	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	V	Open	165	230	1.17	1 / 0	19.06	**20.23**	0.105	36.99	-16.76	**18.08**	0.064	34.77	-16.69
	16-QAM	782.0	V	Open	165	230	1.17	1 / 0	18.20	19.37	0.086	36.99	-17.62	17.22	0.053	34.77	-17.55
5 MHz	QPSK	779.5	V	Open	165	230	1.17	1 / 12	19.18	**20.35**	0.108	36.99	-16.64	**18.20**	0.066	34.77	-16.57
	QPSK	782.0	V	Open	165	230	1.17	1 / 0	19.01	20.18	0.104	36.99	-16.81	18.03	0.063	34.77	-16.75
	QPSK	784.5	V	Open	165	230	1.16	1 / 0	19.07	20.23	0.105	36.99	-16.76	18.08	0.064	34.77	-16.69
	16-QAM	779.5	V	Open	165	230	1.17	1 / 24	18.13	19.31	0.085	36.99	-17.68	17.16	0.052	34.77	-17.62
10 MHz	QPSK (Opposite Pol.)	782.0	H	Open	123	275	1.17	1 / 0	17.82	18.99	0.079	36.99	-18.00	16.84	0.048	34.77	-17.93
	QPSK (WCP)	782.0	V	Open	145	310	1.17	1 / 0	14.34	15.51	0.036	36.99	-21.48	13.36	0.022	34.77	-21.41
	QPSK	782.0	V	Half	169	240	1.17	1 / 0	18.80	19.97	0.099	36.99	-17.02	17.82	0.061	34.77	-16.95

Table 7-19. ERP Data (LTE Band 13 – Ant A)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Config	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	V	Half	144	305	4.44	1 / 99	15.55	19.99	0.100	30.00	-10.01
	QPSK	1745.0	V	Half	144	290	4.39	1 / 0	15.62	**20.01**	0.100	30.00	-9.99
	QPSK	1770.0	V	Half	159	319	4.53	1 / 50	13.95	18.48	0.070	30.00	-11.52
	16-QAM	1745.0	V	Half	144	290	4.39	1 / 0	14.85	19.24	0.084	30.00	-10.76
15 MHz	QPSK	1717.5	V	Half	144	305	4.39	1 / 37	15.63	**20.02**	0.101	30.00	-9.98
	QPSK	1745.0	V	Half	144	290	4.39	1 / 0	15.55	19.93	0.099	30.00	-10.07
	QPSK	1772.5	V	Half	159	319	4.51	1 / 74	14.11	18.62	0.073	30.00	-11.38
	16-QAM	1717.5	V	Half	144	305	4.39	1 / 0	14.67	19.06	0.081	30.00	-10.94
10 MHz	QPSK	1715.0	V	Half	144	305	4.34	1 / 0	15.83	**20.18**	0.104	30.00	-9.82
	QPSK	1745.0	V	Half	144	290	4.39	1 / 25	15.56	19.95	0.099	30.00	-10.05
	QPSK	1775.0	V	Half	159	319	4.49	1 / 0	14.31	18.80	0.076	30.00	-11.20
	16-QAM	1715.0	V	Half	144	305	4.34	1 / 25	14.73	19.07	0.081	30.00	-10.93
5 MHz	QPSK	1712.5	V	Half	144	305	4.30	1 / 12	15.82	**20.12**	0.103	30.00	-9.88
	QPSK	1745.0	V	Half	144	290	4.39	1 / 12	15.63	20.02	0.101	30.00	-9.98
	QPSK	1777.5	V	Half	159	319	4.47	1 / 12	14.52	18.99	0.079	30.00	-11.01
	16-QAM	1712.5	V	Half	144	305	4.30	1 / 0	14.78	19.08	0.081	30.00	-10.92
3 MHz	QPSK	1711.5	V	Half	144	305	4.28	1 / 14	16.03	**20.30**	0.107	30.00	-9.70
	QPSK	1745.0	V	Half	144	290	4.39	1 / 7	15.91	20.30	0.107	30.00	-9.70
	QPSK	1778.5	V	Half	159	319	4.47	1 / 7	14.40	18.86	0.077	30.00	-11.14
	16-QAM	1711.5	V	Half	144	305	4.28	1 / 7	14.70	18.98	0.079	30.00	-11.02
1.4 MHz	QPSK	1710.7	V	Half	144	305	4.26	1 / 3	15.93	**20.19**	0.104	30.00	-9.81
	QPSK	1745.0	V	Half	144	290	4.39	1 / 3	15.66	20.05	0.101	30.00	-9.95
	QPSK	1779.3	V	Half	159	319	4.46	1 / 0	14.40	18.86	0.077	30.00	-11.14
	16-QAM	1710.7	V	Half	144	305	4.26	1 / 5	14.90	19.17	0.083	30.00	-10.83
20 MHz	QPSK (Opposite Pol.)	1745.0	H	Half	142	178	4.39	1 / 0	14.56	18.95	0.079	30.00	-11.05
	QPSK (WCP)	1745.0	V	Half	117	283	4.39	1 / 0	10.51	14.90	0.031	30.00	-15.10
	QPSK	1770.0	V	Open	142	306	4.53	1 / 50	14.98	19.51	0.089	30.00	-10.49

Table 7-20. EIRP Data (LTE Band 66/4 – Ant A)