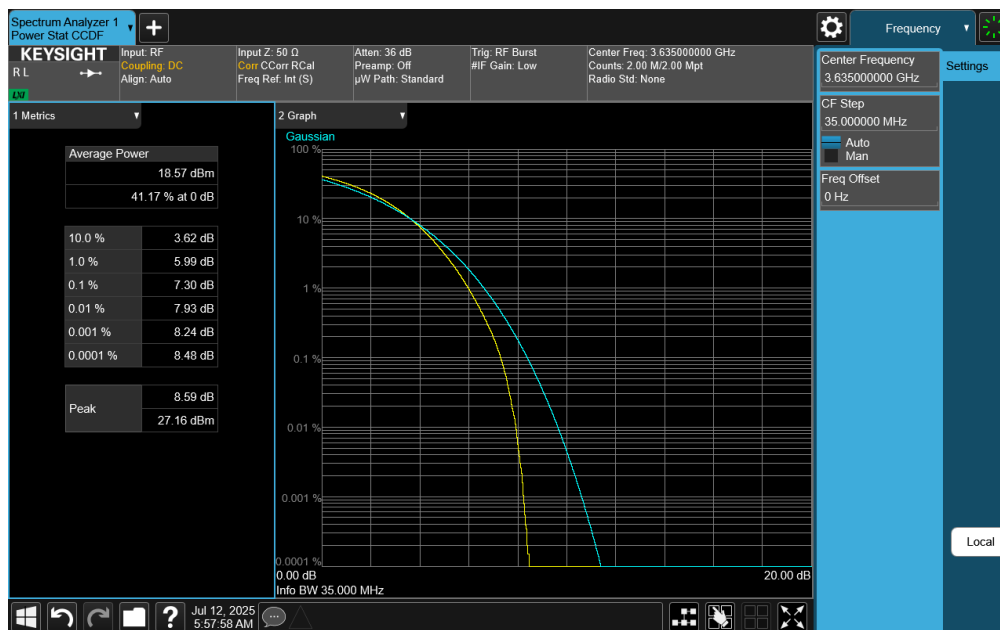
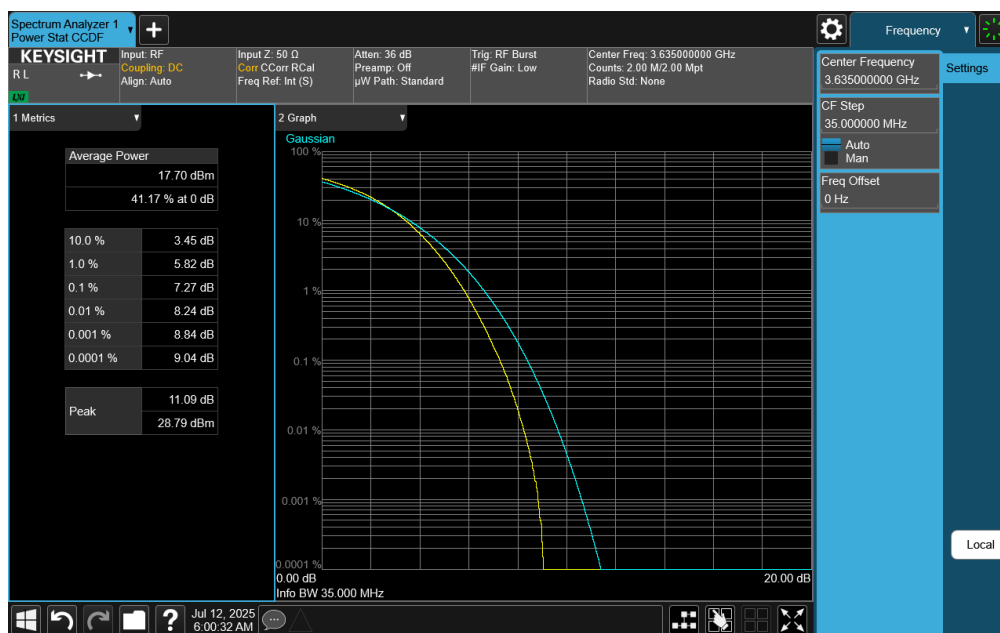




Plot 7-147. PAR Plot (ULCA LTE Band 48 - 20+15MHz 64-QAM – Full RB)

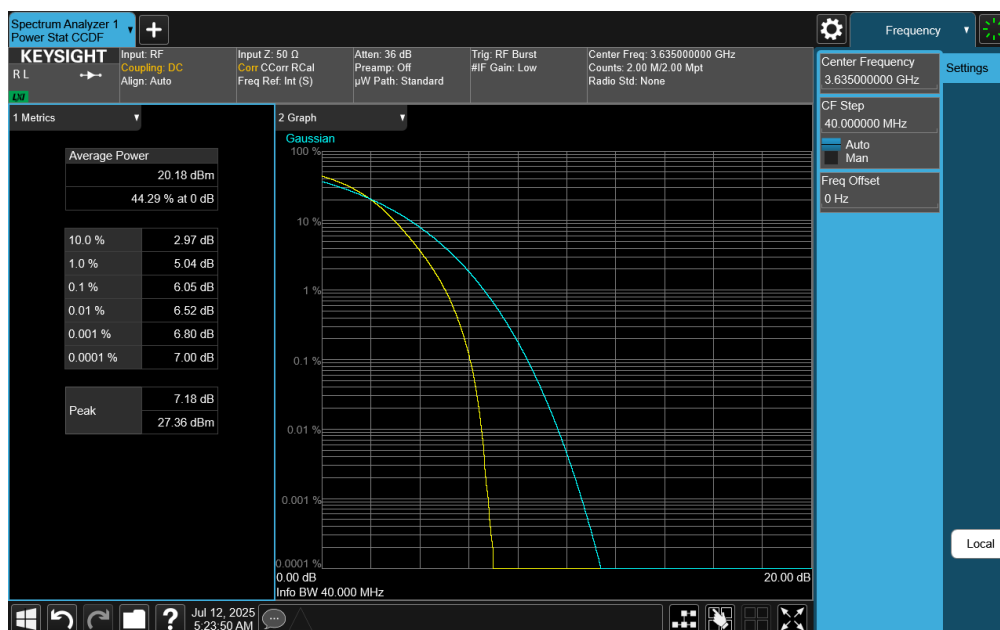


Plot 7-148. PAR Plot (ULCA LTE Band 48 - 20+15MHz 256-QAM – Full RB)

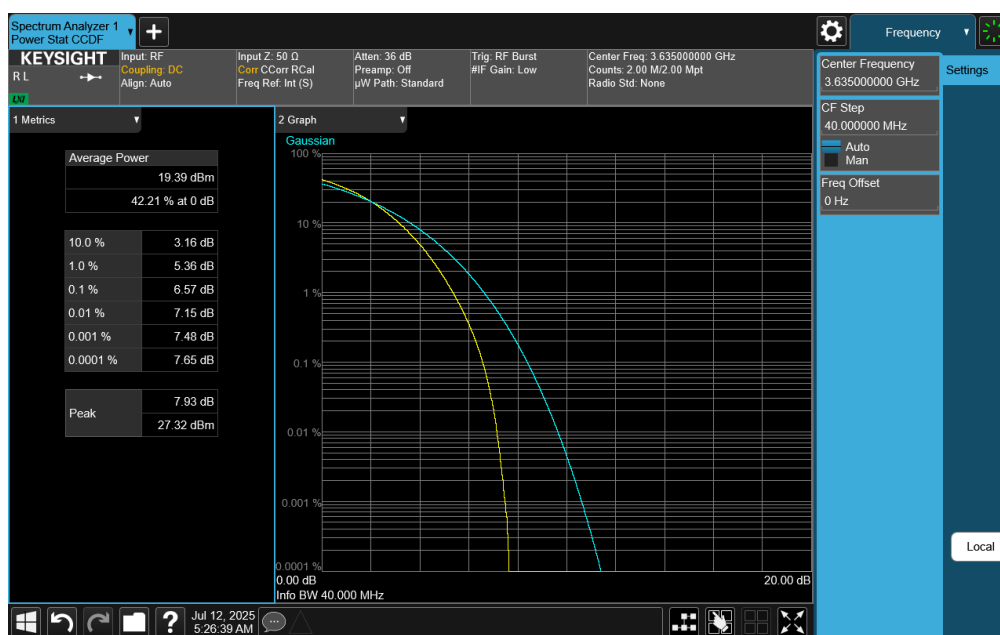
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-149. PAR Plot (ULCA LTE Band 48 - 20+20MHz QPSK – Full RB)

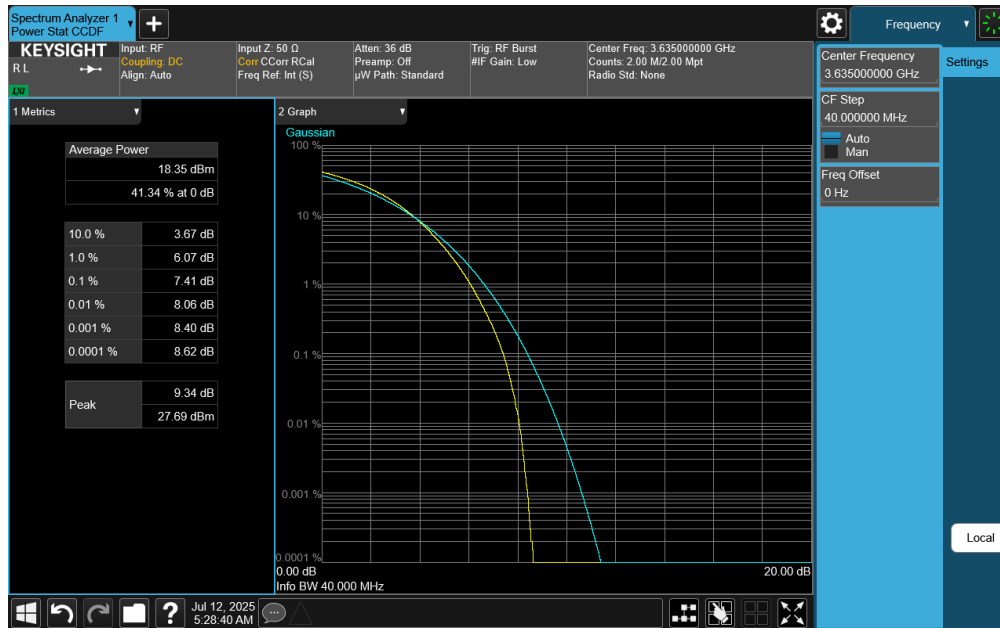


Plot 7-150. PAR Plot (ULCA LTE Band 48 - 20+20MHz 16-QAM – Full RB)

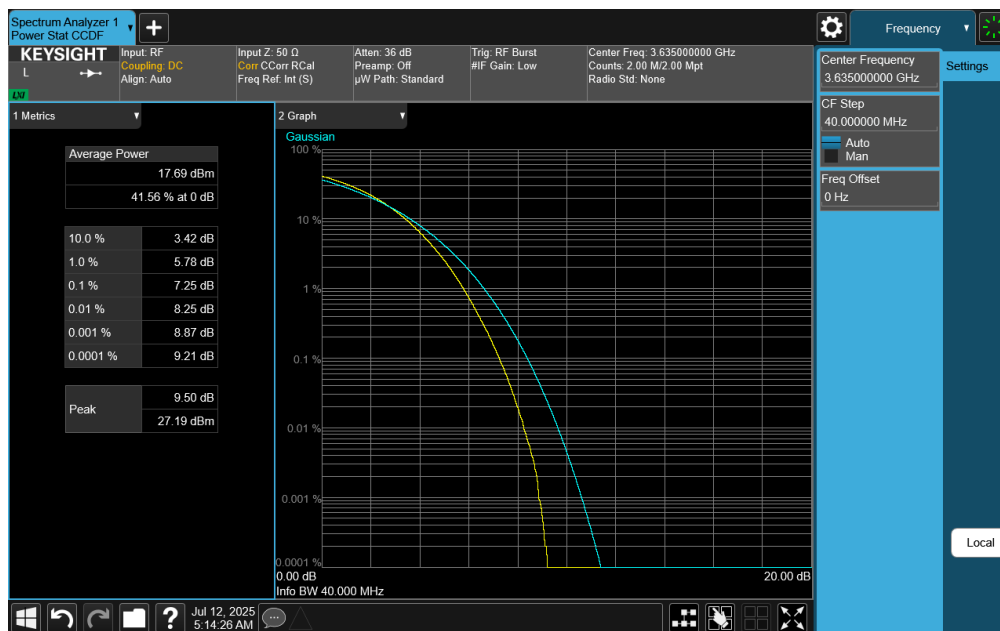
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-151. PAR Plot (ULCA LTE Band 48 - 20+20MHz 64-QAM – Full RB)



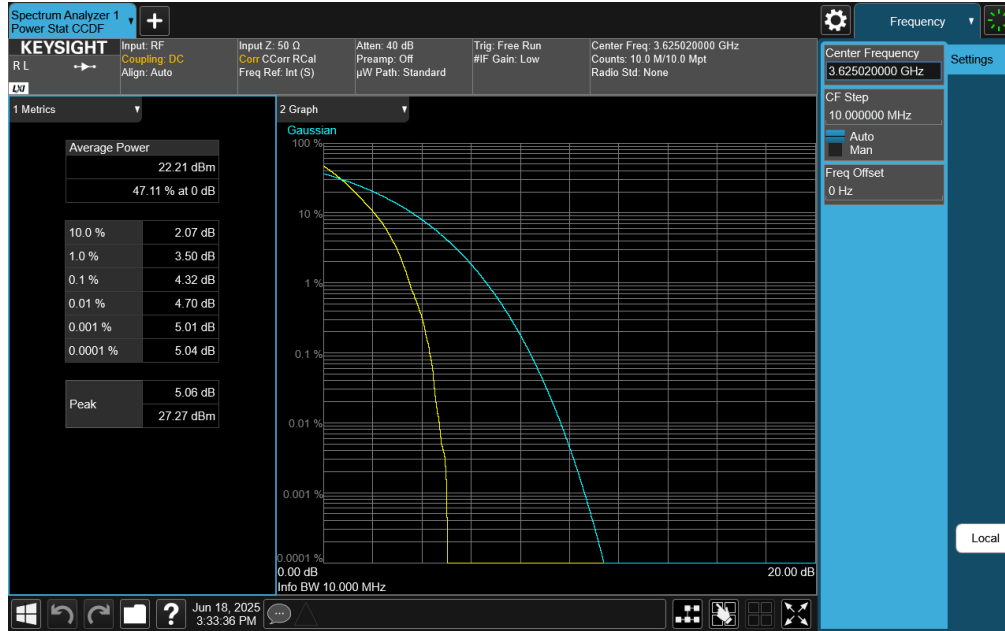
Plot 7-152. PAR Plot (ULCA LTE Band 48 - 20+20MHz 256-QAM – Full RB)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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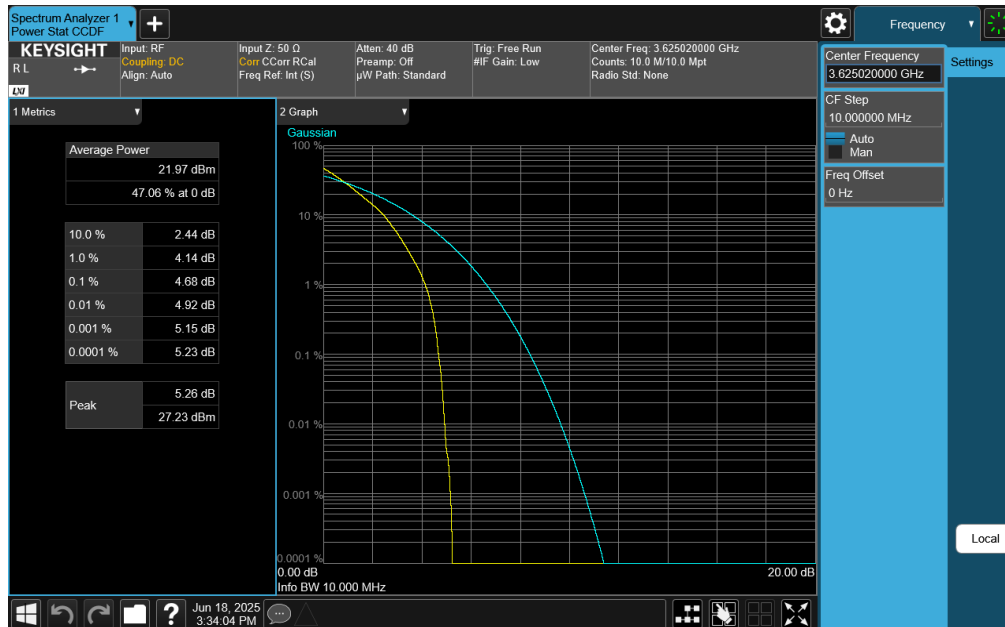
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NR Band n48



Plot 7-153. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM $\pi/2$ BPSK)

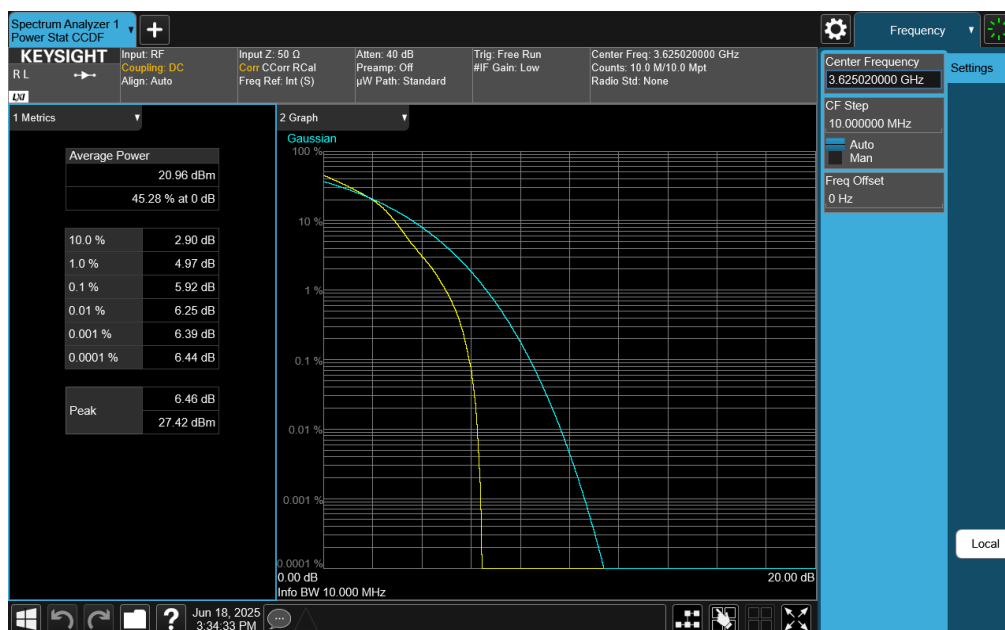


Plot 7-154. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM QPSK)

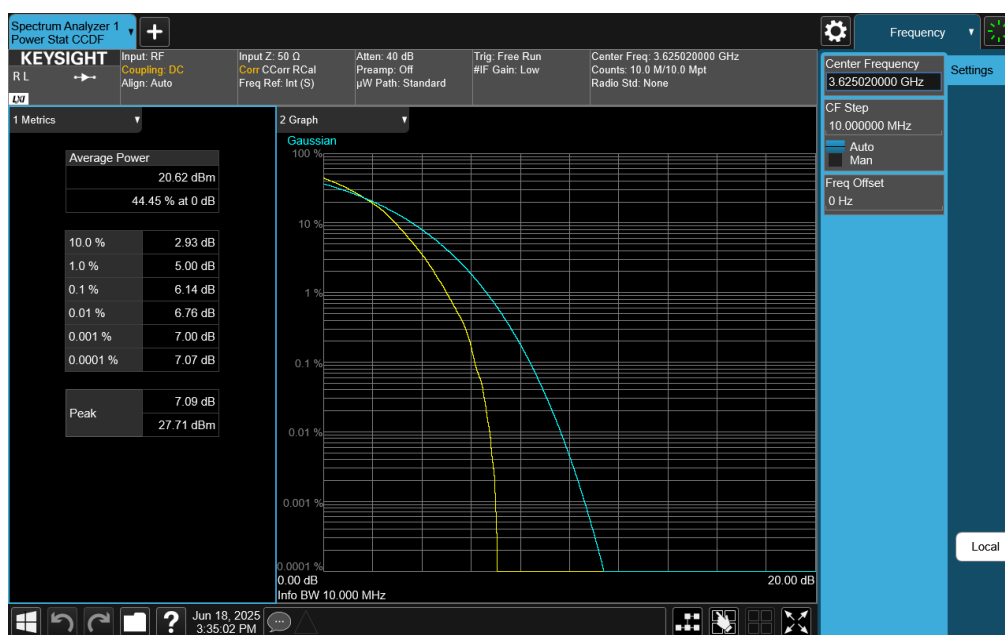
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-155. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 16-QAM)

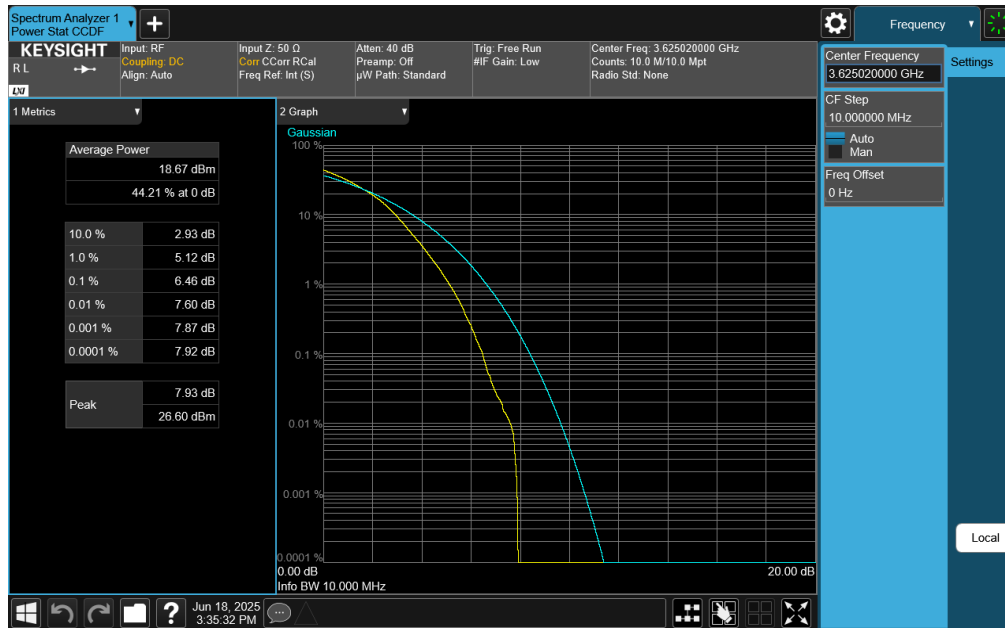


Plot 7-156. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 64-QAM)

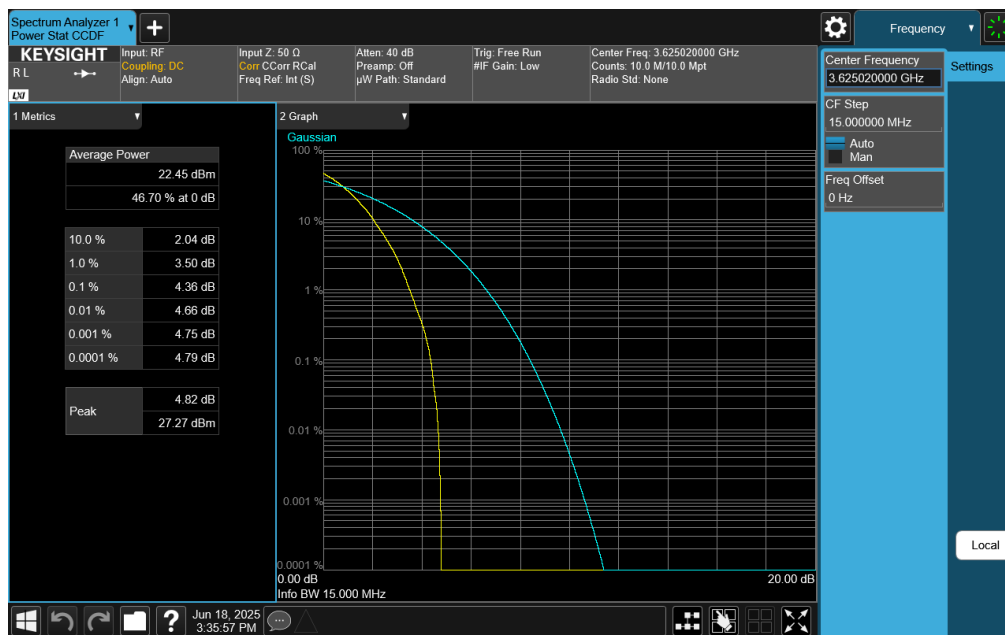
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-157. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 256-QAM)

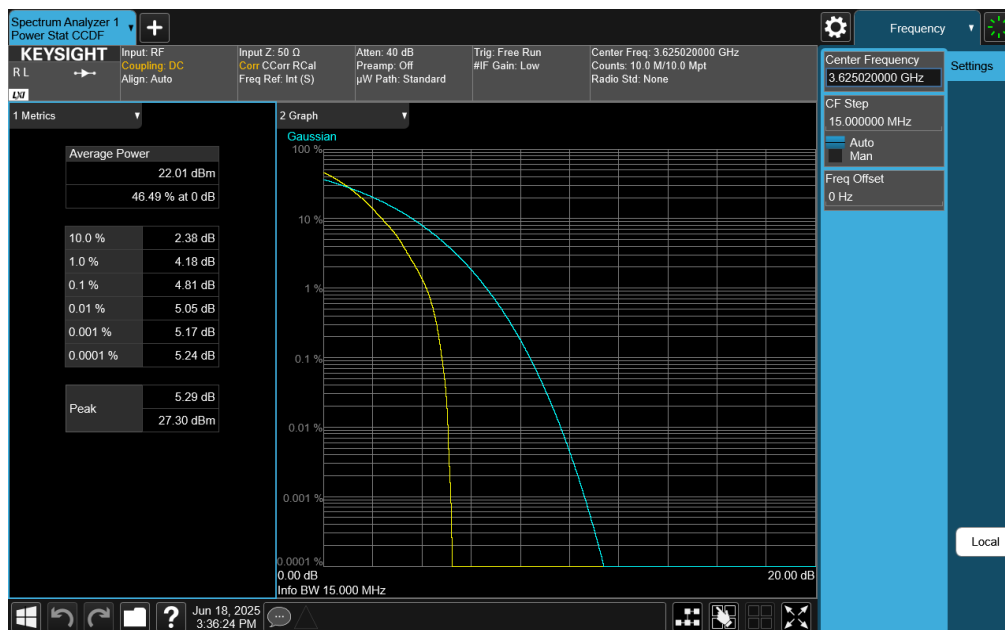


Plot 7-158. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM $\pi/2$ BPSK)

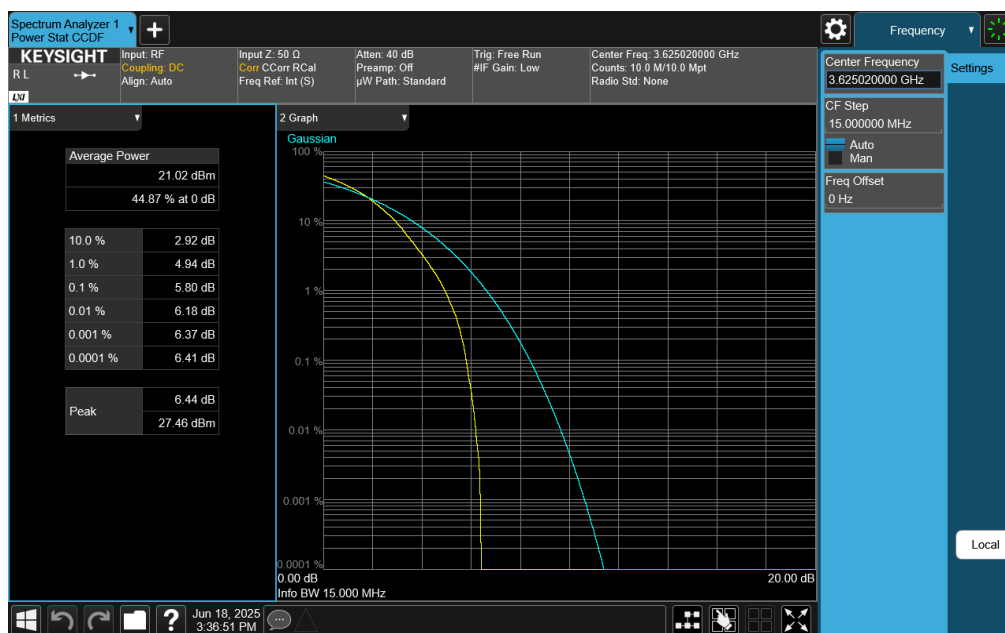
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-159. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM QPSK)

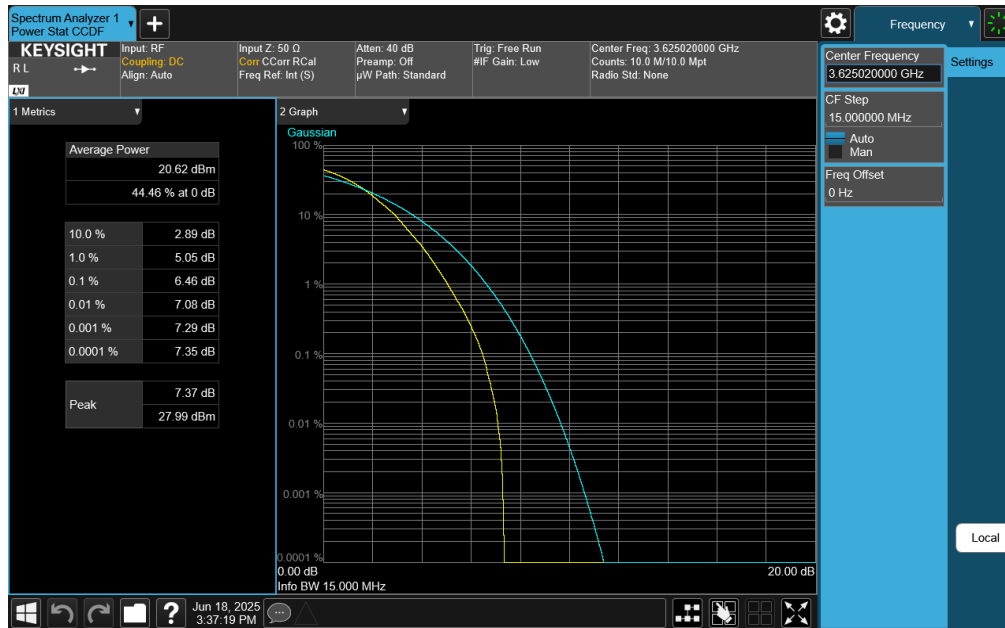


Plot 7-160. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM 16-QAM)

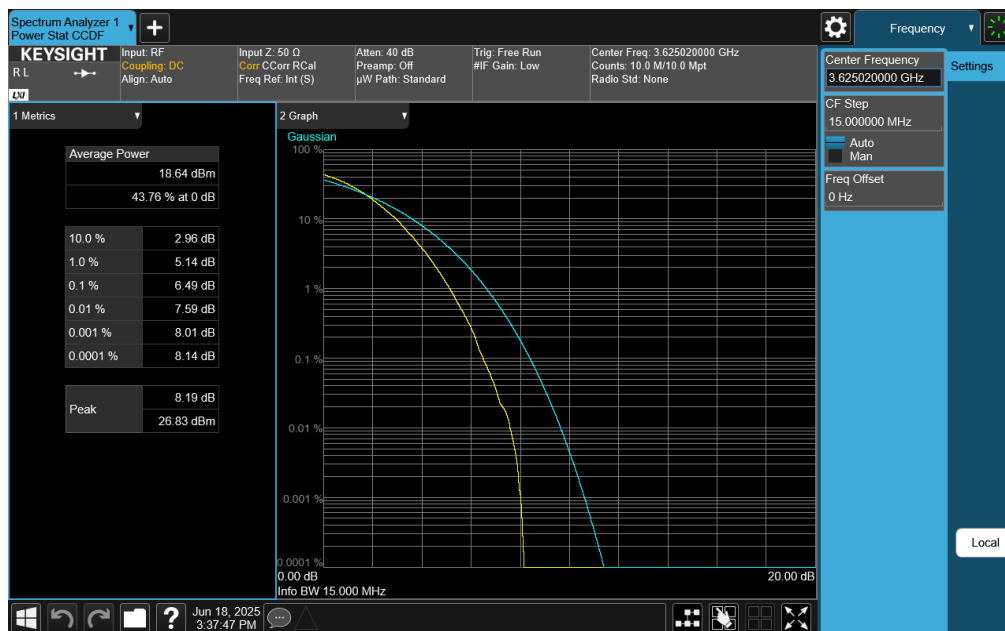
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-161. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM 64-QAM)

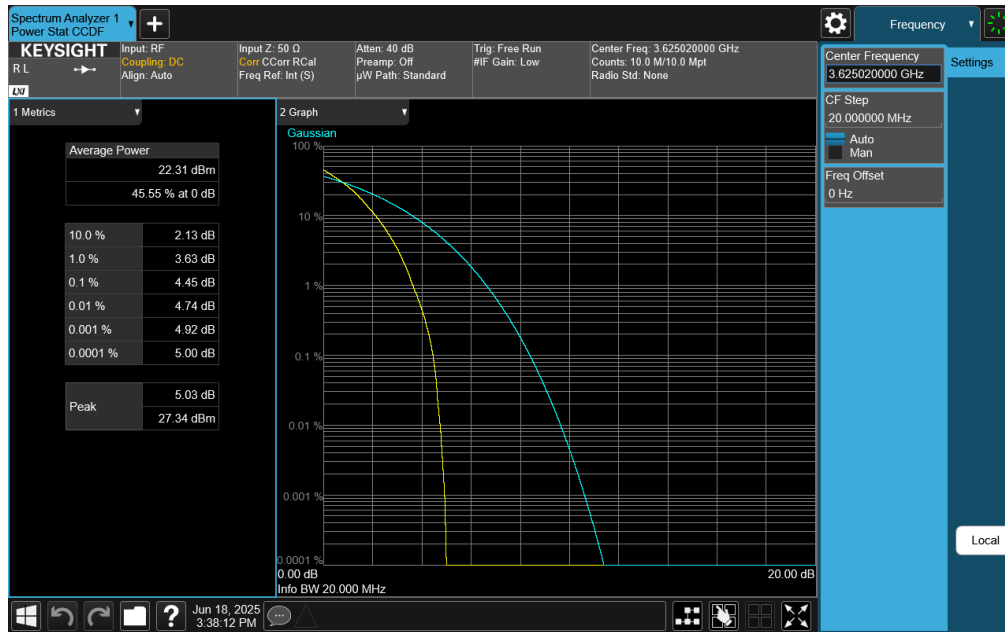


Plot 7-162. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM 256-QAM)

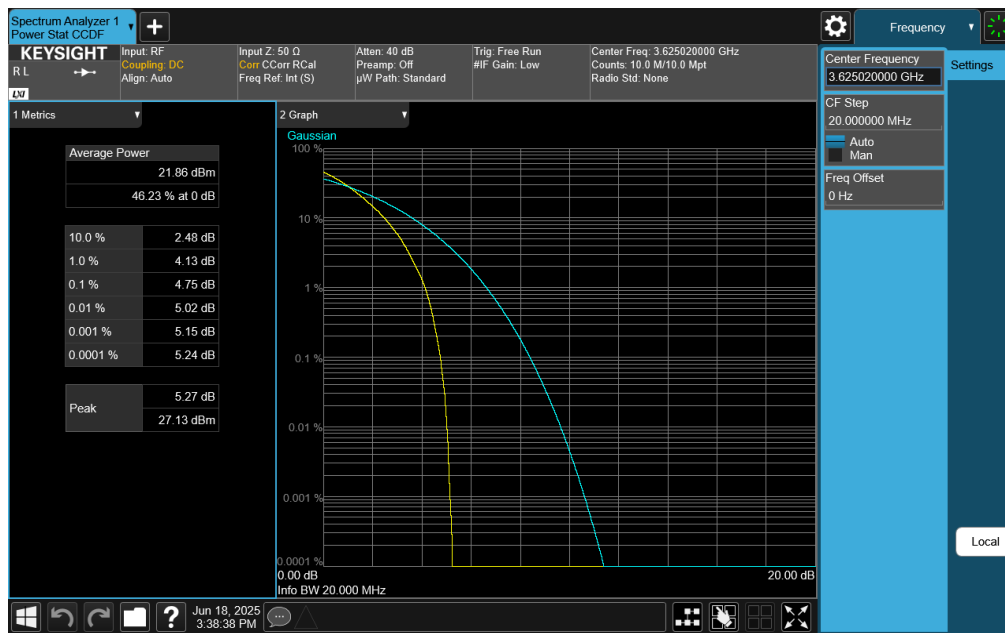
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-163. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM $\pi/2$ BPSK)

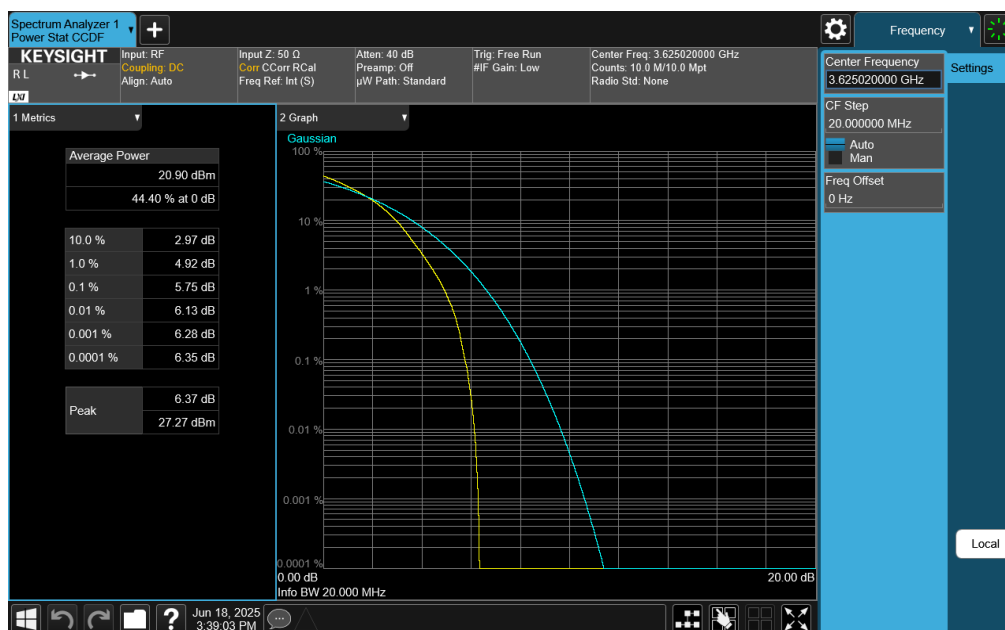


Plot 7-164. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM QPSK)

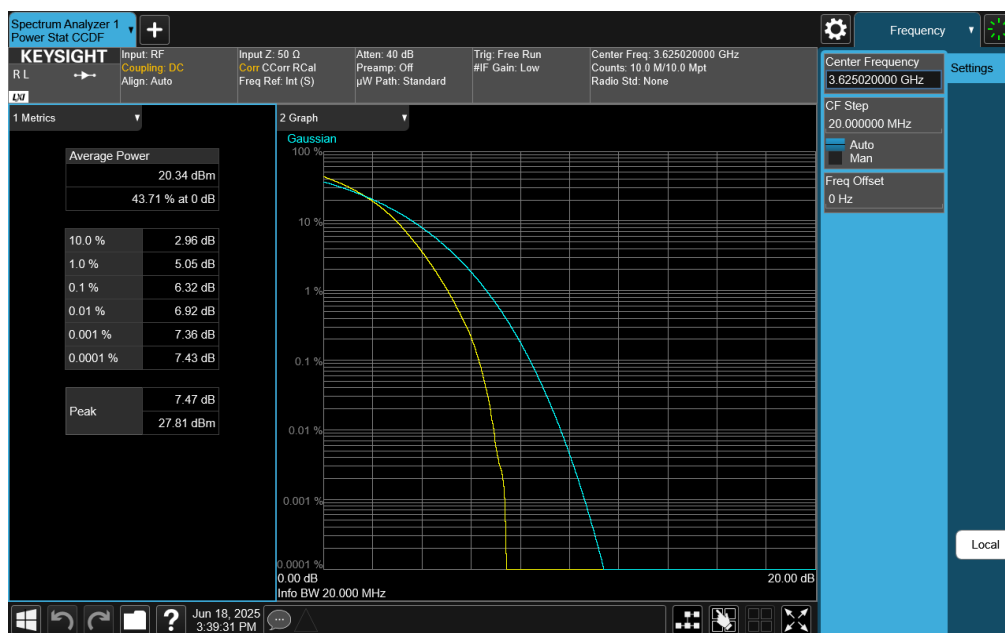
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-165. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM 16-QAM)

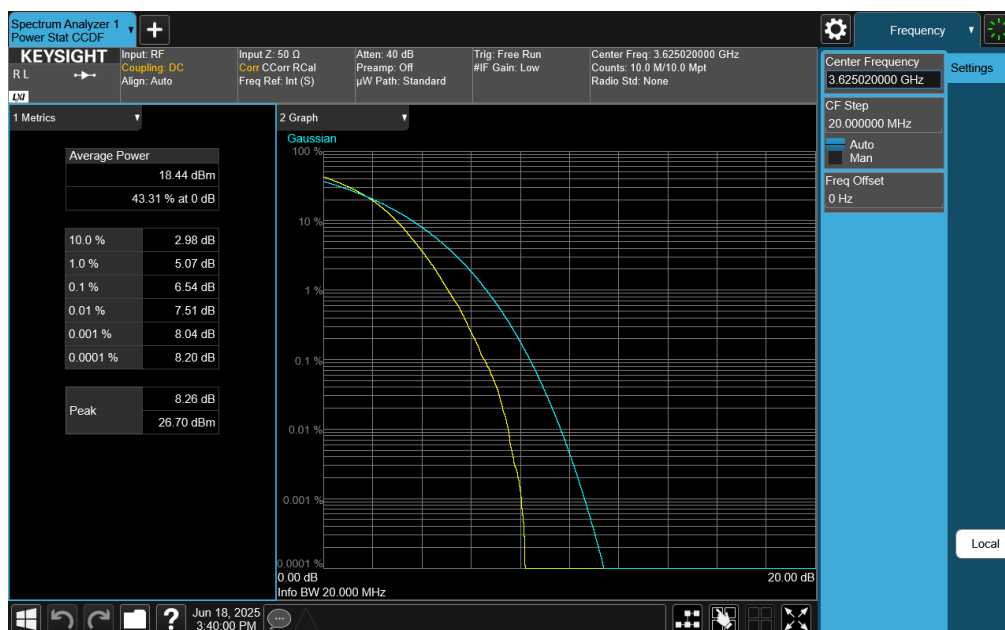


Plot 7-166. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM 64-QAM)

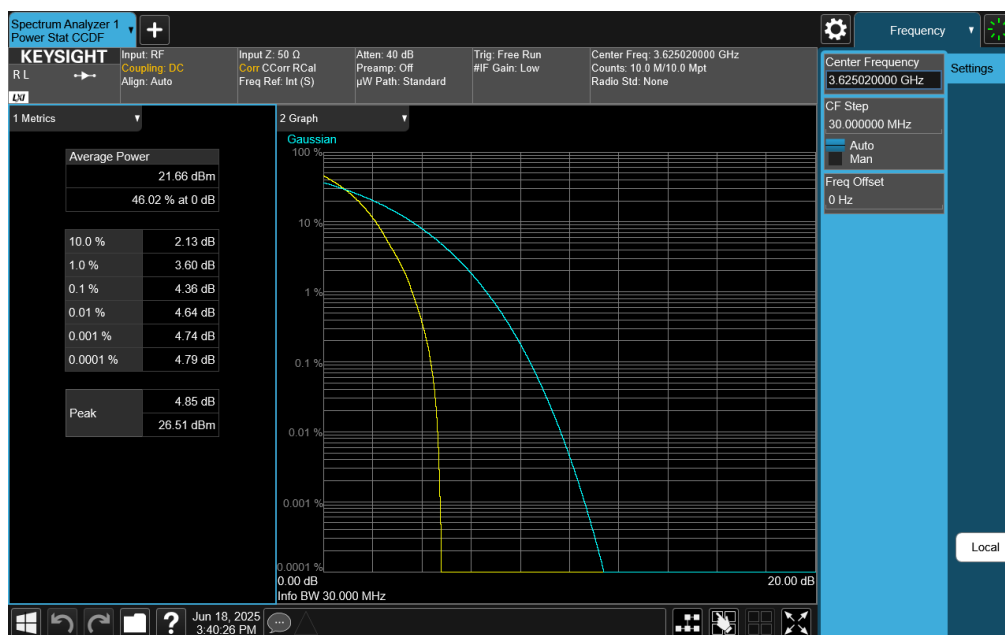
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-167. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM 256-QAM)

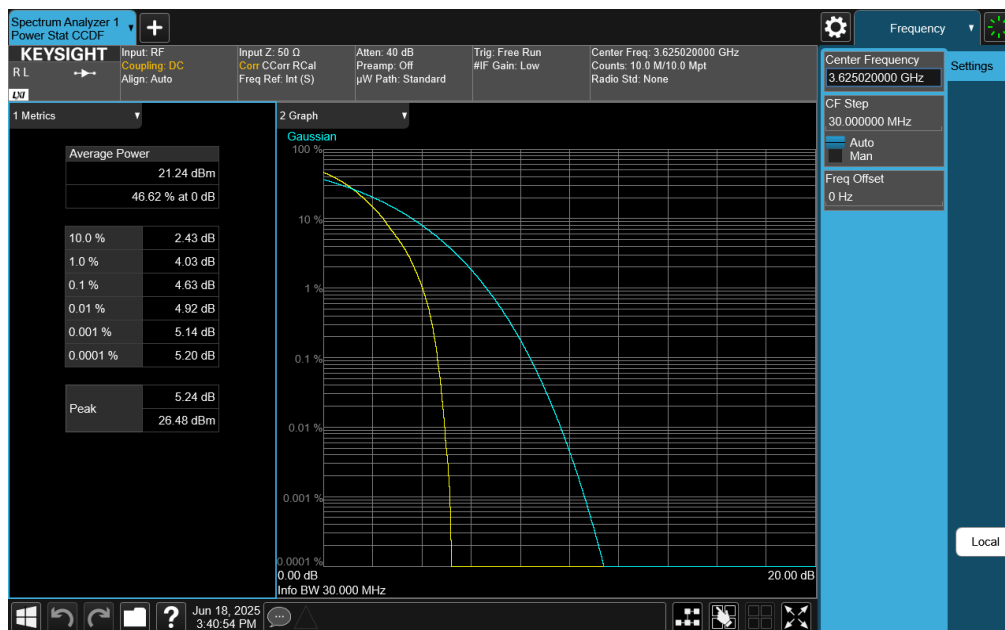


Plot 7-168. PAR Plot (NR Band n48 - 30MHz DFT-s-OFDM $\pi/2$ BPSK)

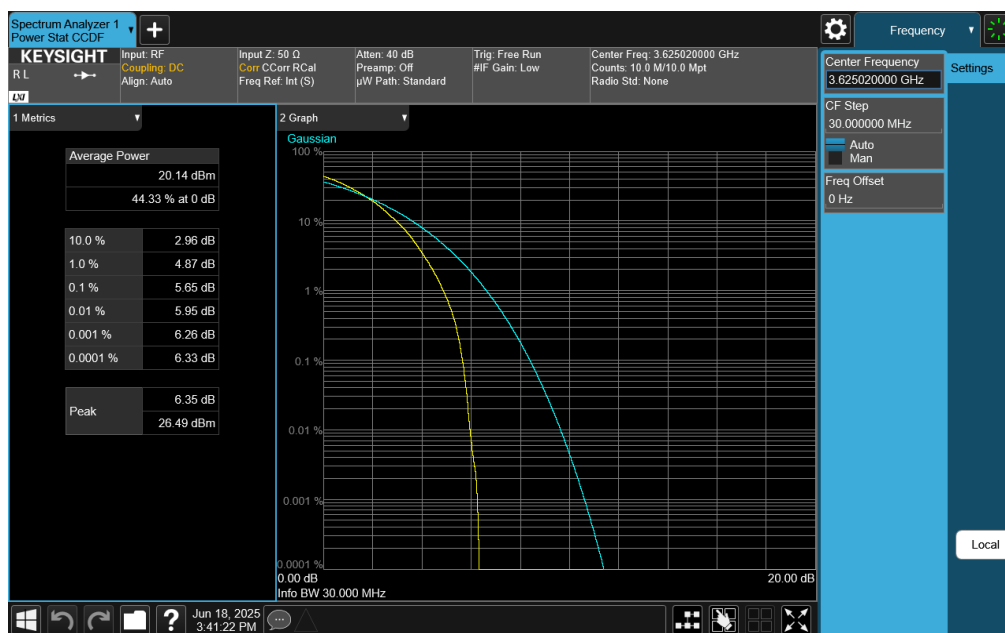
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-169. PAR Plot (NR Band n48 - 30MHz DFT-s-OFDM QPSK)

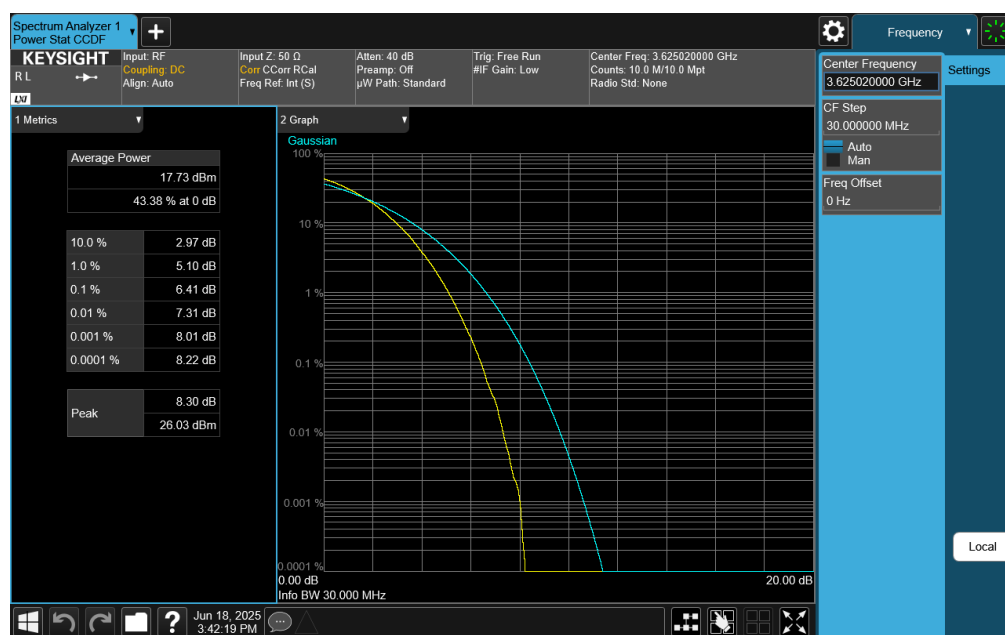
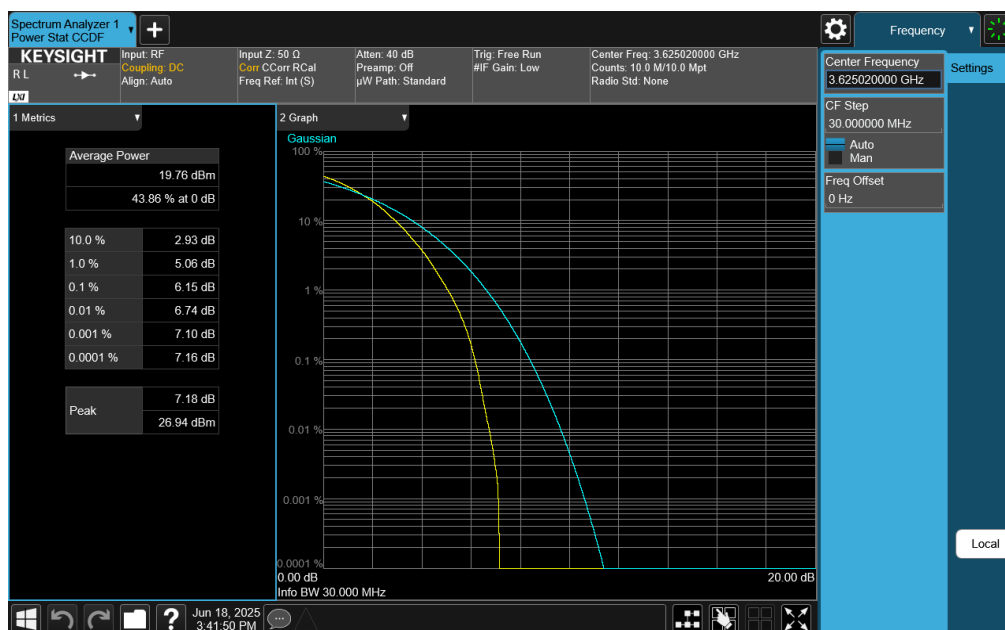


Plot 7-170. PAR Plot (NR Band n48 - 30MHz DFT-s-OFDM 16-QAM)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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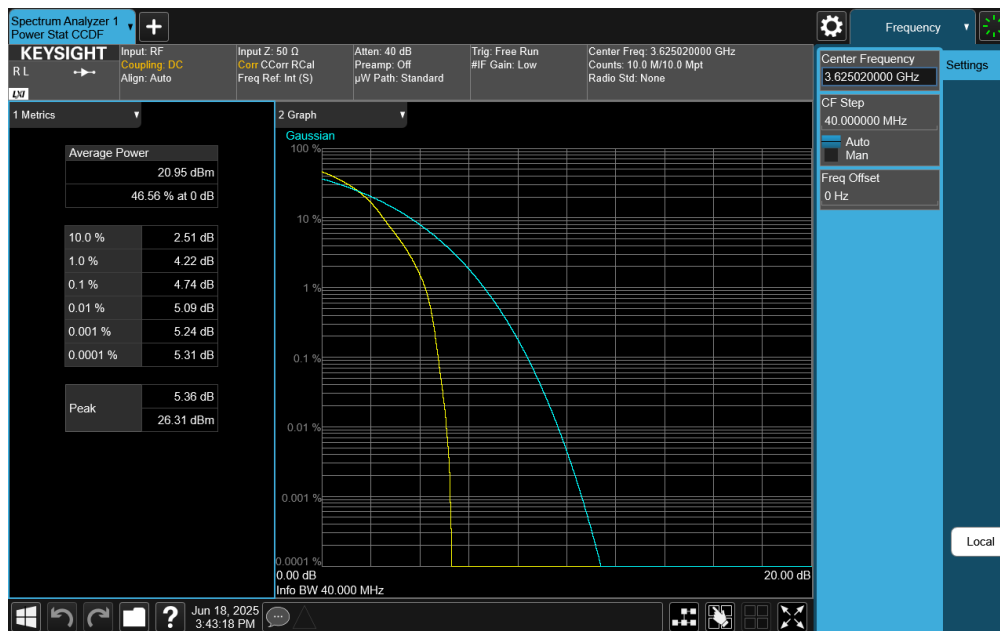
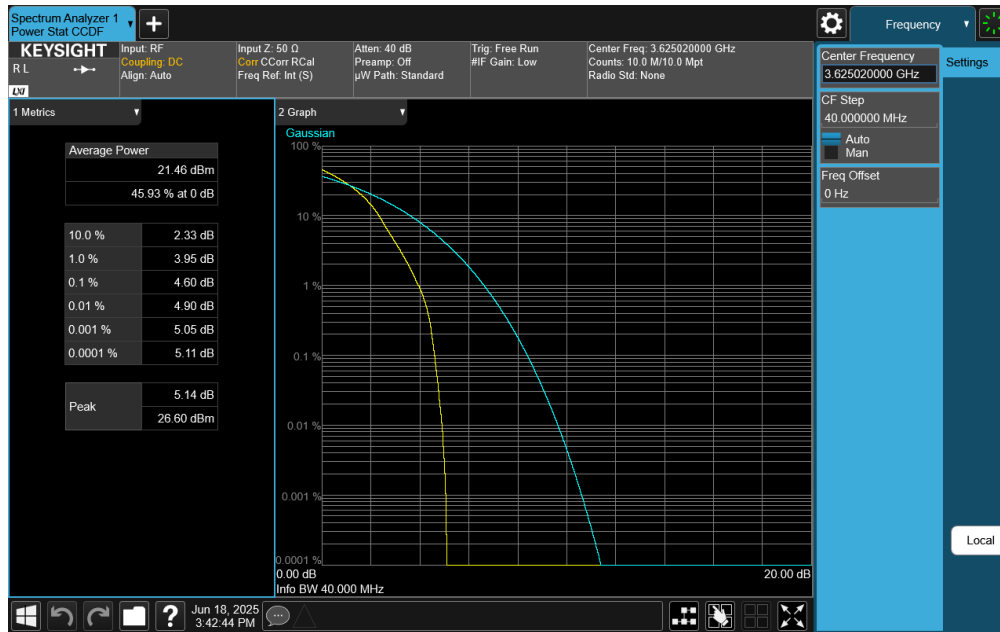
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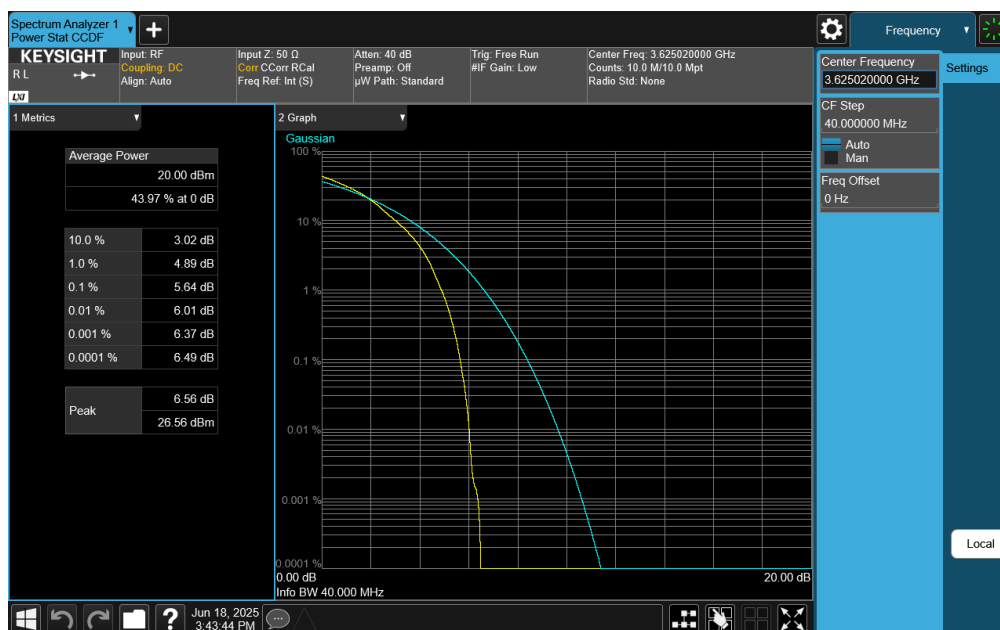
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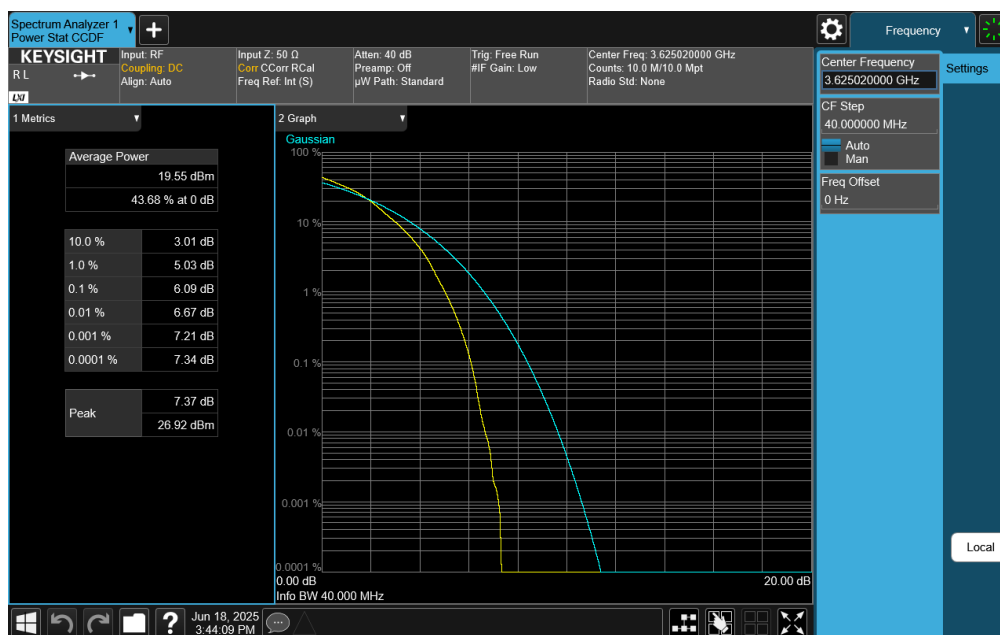
FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-175. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 16-QAM)

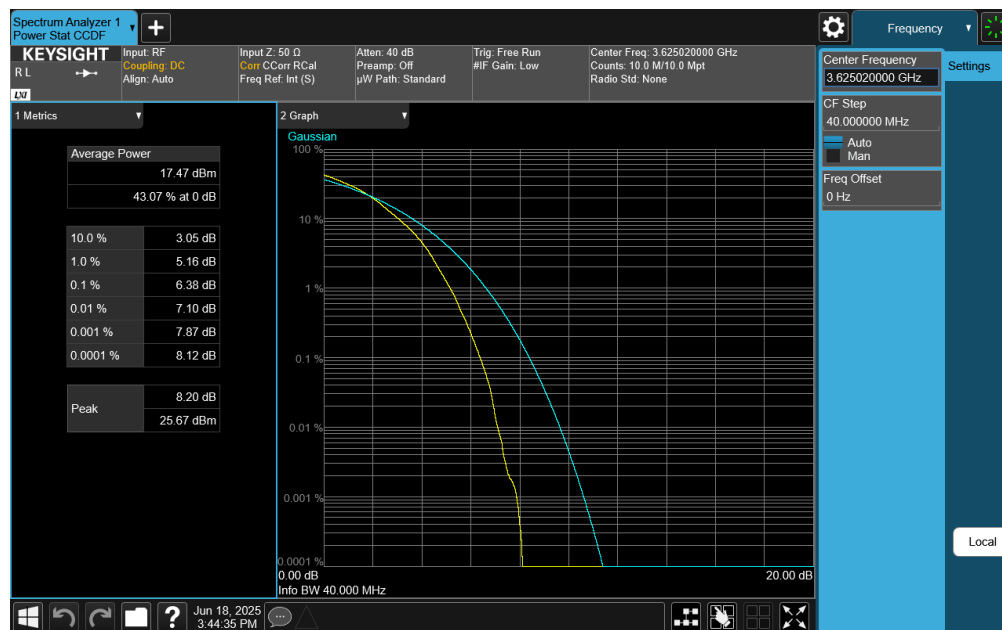


Plot 7-176. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 64-QAM)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-177. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 256-QAM)

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7.6 Radiated Power (EIRP)

§96.41(b)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015

Test Settings

The relevant equation for determining the EIRP from the conducted RF output power measured is:

$$\text{EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBi (EIRP)

Test Setup

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



Figure 7-9. LTE EIRP Measurement Setup

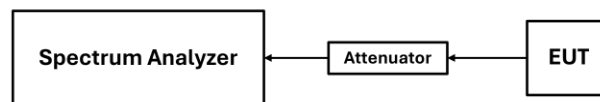


Figure 7-10. FR1 Test Instrument & Measurement Setup

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Test Notes

2. The worst case emissions are reported with the modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
3. This unit was tested with its standard battery.
4. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
5. The worst case EIRP shown in this section is found with LTE & NR operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz) and NR FR1 Band 48 (i.e. 10, 15, 20, 30, 40MHz).
6. Uplink carrier aggregation for LTE B48 is only supported in this EUT while operating in Power Class 3.
7. For ULCA, conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
8. 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.

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7.6.1 Antenna 3 – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
5 MHz	QPSK	3552.5	2.20	1 / 12	20.05	22.25	0.168	23.00	-0.75
		3625.0	2.20	1 / 24	19.94	22.14	0.164	23.00	-0.86
		3697.5	2.20	1 / 12	19.96	22.16	0.164	23.00	-0.84
	16-QAM	3552.5	2.20	1 / 24	19.71	21.91	0.155	23.00	-1.09
	64-QAM	3552.5	2.20	1 / 12	18.57	20.77	0.119	23.00	-2.23
	256-QAM	3625.0	2.20	1 / 0	15.53	17.73	0.059	23.00	-5.27
10 MHz	QPSK	3555.0	2.20	1 / 49	20.05	22.25	0.168	23.00	-0.75
		3625.0	2.20	1 / 49	20.02	22.22	0.167	23.00	-0.78
		3695.0	2.20	1 / 0	19.99	22.19	0.166	23.00	-0.81
	16-QAM	3555.0	2.20	1 / 0	19.58	21.78	0.151	23.00	-1.22
	64-QAM	3695.0	2.20	1 / 49	18.66	20.86	0.122	23.00	-2.14
	256-QAM	3555.0	2.20	50 / 0	15.51	17.71	0.059	23.00	-5.29
15 MHz	QPSK	3557.5	2.20	1 / 0	19.93	22.13	0.163	23.00	-0.87
		3625.0	2.20	1 / 0	20.04	22.24	0.167	23.00	-0.76
		3692.5	2.20	1 / 0	19.89	22.09	0.162	23.00	-0.91
	16-QAM	3625.0	2.20	1 / 0	19.53	21.73	0.149	23.00	-1.27
	64-QAM	3625.0	2.20	1 / 0	18.53	20.73	0.118	23.00	-2.27
	256-QAM	3625.0	2.20	75 / 0	15.42	17.62	0.058	23.00	-5.38
20 MHz	QPSK	3560.0	2.20	1 / 0	19.81	22.01	0.159	23.00	-0.99
		3625.0	2.20	1 / 0	20.11	22.31	0.170	23.00	-0.69
		3690.0	2.20	1 / 0	19.77	21.97	0.157	23.00	-1.03
	16-QAM	3690.0	2.20	1 / 0	19.41	21.61	0.145	23.00	-1.39
	64-QAM	3690.0	2.20	1 / 0	18.43	20.63	0.116	23.00	-2.37
	256-QAM	3625.0	2.20	100 / 0	15.43	17.63	0.058	23.00	-5.37

Table 7-1. EIRP Data (LTE Band 48)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
10 MHz	π/2 BPSK	3555.0	2.20	24 / 0	19.88	22.08	0.161	23.00	-0.92
		3625.0	2.20	24 / 0	19.82	22.02	0.159	23.00	-0.98
		3695.0	2.20	24 / 0	19.75	21.95	0.157	23.00	-1.05
	QPSK	3555.0	2.20	1 / 1	19.90	22.10	0.162	23.00	-0.90
		3625.0	2.20	1 / 12	19.74	21.94	0.156	23.00	-1.06
		3695.0	2.20	1 / 1	19.68	21.88	0.154	23.00	-1.12
	16-QAM	3555.0	2.20	1 / 12	18.75	20.95	0.124	23.00	-2.05
	64-QAM	3555.0	2.20	24 / 0	18.11	20.31	0.107	23.00	-2.69
	256-QAM	3555.0	2.20	24 / 0	16.07	18.27	0.067	23.00	-4.73
	π/2 BPSK	3557.5	2.20	36 / 0	19.88	22.08	0.162	23.00	-0.92
		3625.0	2.20	1 / 18	19.73	21.93	0.156	23.00	-1.07
		3692.5	2.20	36 / 0	19.76	21.96	0.157	23.00	-1.04
15 MHz	QPSK	3557.5	2.20	1 / 1	19.96	22.16	0.165	23.00	-0.84
		3625.0	2.20	1 / 36	19.76	21.96	0.157	23.00	-1.04
		3692.5	2.20	1 / 1	19.64	21.84	0.153	23.00	-1.16
	16-QAM	3557.5	2.20	1 / 1	18.71	20.91	0.123	23.00	-2.09
	64-QAM	3557.5	2.20	36 / 0	17.96	20.16	0.104	23.00	-2.84
	256-QAM	3557.5	2.20	36 / 0	16.00	18.20	0.066	23.00	-4.80
20 MHz	π/2 BPSK	3560.0	2.20	50 / 0	19.91	22.11	0.163	23.00	-0.89
		3625.0	2.20	50 / 0	19.79	21.99	0.158	23.00	-1.01
		3690.0	2.20	50 / 0	19.77	21.97	0.157	23.00	-1.03
	QPSK	3560.0	2.20	1 / 25	19.91	22.11	0.163	23.00	-0.89
		3625.0	2.20	1 / 49	19.76	21.96	0.157	23.00	-1.04
		3690.0	2.20	1 / 1	19.80	22.00	0.159	23.00	-1.00
	16-QAM	3625.0	2.20	1 / 25	18.91	21.11	0.129	23.00	-1.89
	64-QAM	3560.0	2.20	50 / 0	17.95	20.15	0.103	23.00	-2.85
	256-QAM	3560.0	2.20	50 / 0	16.03	18.23	0.066	23.00	-4.77
30 MHz	π/2 BPSK	3565.0	2.20	1 / 1	19.86	22.06	0.161	23.00	-0.94
		3625.0	2.20	75 / 0	19.76	21.96	0.157	23.00	-1.04
		3685.0	2.20	75 / 0	19.78	21.98	0.158	23.00	-1.02
	QPSK	3565.0	2.20	1 / 1	20.00	22.20	0.166	23.00	-0.80
		3625.0	2.20	1 / 76	19.79	21.99	0.158	23.00	-1.01
		3685.0	2.20	1 / 36	19.70	21.90	0.155	23.00	-1.10
	16-QAM	3565.0	2.20	1 / 36	18.90	21.10	0.129	23.00	-1.90
	64-QAM	3565.0	2.20	75 / 0	17.93	20.13	0.103	23.00	-2.87
	256-QAM	3565.0	2.20	75 / 0	15.90	18.10	0.065	23.00	-4.90
40 MHz	π/2 BPSK	3570.0	2.20	1 / 1	19.91	22.11	0.163	23.00	-0.89
		3625.0	2.20	100 / 0	19.80	22.00	0.159	23.00	-1.00
		3680.0	2.20	100 / 0	19.76	21.96	0.157	23.00	-1.04
	QPSK	3570.0	2.20	1 / 1	19.95	22.15	0.164	23.00	-0.85
		3625.0	2.20	1 / 1	19.77	21.97	0.157	23.00	-1.03
		3680.0	2.20	1 / 1	19.77	21.97	0.157	23.00	-1.03
	16-QAM	3625.0	2.20	1 / 104	18.78	20.98	0.125	23.00	-2.02
	64-QAM	3570.0	2.20	100 / 0	17.90	20.10	0.102	23.00	-2.90
	256-QAM	3570.0	2.20	100 / 0	15.94	18.14	0.065	23.00	-4.86

Table 7-2. EIRP Data (NR Band n48)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 113 of 147

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Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
			Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset						
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55467	3571.7	1	0	20.09	2.20	22.29	0.169	23.00	-0.71
				55990	3625.0	1	99		56107	3636.7	1	0	20.10	2.20	22.30	0.170	23.00	-0.70
				56640	3690.0	1	0		56223	3678.3	1	24	20.16	2.20	22.36	0.172	23.00	-0.64
			QPSK	55640	3690	100	0	QPSK	55523	3678.3	100	0	19.99	2.20	22.19	0.166	23.00	-0.81
				56640	3690	100	0		56523	3678.3	100	0	19.74	2.20	21.94	0.156	23.00	-1.06
				56640	3690	100	0		56523	3678.3	100	0	19.52	2.20	21.72	0.149	23.00	-1.28
			64-QAM	55640	3690	100	0	64-QAM	55523	3678.3	100	0	19.32	2.20	21.52	0.142	23.00	-1.48
				56640	3690	100	0		56523	3678.3	100	0	19.32	2.20	21.52	0.142	23.00	-1.48
Max	LTE B48	20MHz + 10MHz	QPSK	55340	3560.0	1	99	QPSK	55484	3574.4	1	0	19.64	2.20	21.84	0.153	23.00	-1.16
				55990	3625.0	1	99		56134	3639.4	1	0	20.15	2.20	22.35	0.172	23.00	-0.65
				56640	3690.0	1	0		56496	3675.6	1	49	19.64	2.20	21.84	0.153	23.00	-1.16
			QPSK	55990	3625	100	0	QPSK	56134	3639.4	100	0	19.98	2.20	22.18	0.165	23.00	-0.82
				56640	3625	100	0		56134	3639.4	100	0	19.77	2.20	21.97	0.157	23.00	-1.03
				56640	3625	100	0		56134	3639.4	100	0	19.49	2.20	21.69	0.148	23.00	-1.31
			64-QAM	55990	3625	100	0	64-QAM	56134	3639.4	100	0	19.21	2.20	21.41	0.138	23.00	-1.59
				56640	3625	100	0		56134	3639.4	100	0	19.60	2.20	21.80	0.151	23.00	-1.21
Max	LTE B48	20MHz + 15MHz	QPSK	55340	3560.0	1	99	QPSK	55511	3577.1	1	0	19.60	2.20	21.80	0.151	23.00	-1.21
				55990	3625.0	1	99		56161	3642.1	1	0	20.14	2.20	22.34	0.171	23.00	-0.66
				56640	3690.0	1	0		56469	3672.9	1	74	19.62	2.20	21.82	0.152	23.00	-1.18
			QPSK	55990	3625	100	0	QPSK	56161	3642.1	100	0	19.98	2.20	22.18	0.165	23.00	-0.82
				56640	3625	100	0		56161	3642.1	100	0	19.74	2.20	21.94	0.156	23.00	-1.06
				56640	3625	100	0		56161	3642.1	100	0	19.48	2.20	21.68	0.147	23.00	-1.32
			64-QAM	55990	3625	100	0	64-QAM	56161	3642.1	100	0	19.27	2.20	21.47	0.140	23.00	-1.53
				56640	3625	100	0		56161	3642.1	100	0	19.27	2.20	21.47	0.140	23.00	-1.53
Max	LTE B48	20MHz + 20MHz	QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	20.28	2.20	22.48	0.177	23.00	-0.52
				55990	3625.0	1	99		56188	3644.8	1	0	20.17	2.20	22.37	0.173	23.00	-0.63
				56640	3690.0	1	0		56442	3670.2	1	99	19.68	2.20	21.88	0.154	23.00	-1.12
			QPSK	55340	3560	100	0	QPSK	55538	3579.8	100	0	19.95	2.20	22.15	0.164	23.00	-0.85
				56640	3560	100	0		55538	3579.8	100	0	19.75	2.20	21.95	0.157	23.00	-1.05
				56640	3560	100	0		55538	3579.8	100	0	19.49	2.20	21.69	0.147	23.00	-1.31
			64-QAM	55340	3560	100	0	64-QAM	55538	3579.8	100	0	19.20	2.20	21.40	0.138	23.00	-1.60
				56640	3560	100	0		55538	3579.8	100	0	19.20	2.20	21.40	0.138	23.00	-1.60

Table 7-3. EIRP Data (ULCA LTE Band 48)

FCC ID: BCGA3358		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 114 of 147

7.6.2 Antenna 1 – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
5 MHz	QPSK	3552.5	0.70	1 / 24	21.53	22.23	0.167	23.00	-0.77
		3625.0	0.70	1 / 12	21.46	22.16	0.164	23.00	-0.84
		3697.5	0.70	1 / 12	21.48	22.18	0.165	23.00	-0.82
	16-QAM	3552.5	0.70	1 / 0	21.20	21.90	0.155	23.00	-1.10
	64-QAM	3552.5	0.70	1 / 24	20.25	20.95	0.124	23.00	-2.05
	256-QAM	3697.5	0.70	1 / 12	17.11	17.81	0.060	23.00	-5.19
10 MHz	QPSK	3555.0	0.70	1 / 49	21.56	22.26	0.168	23.00	-0.74
		3625.0	0.70	1 / 49	21.64	22.34	0.171	23.00	-0.66
		3695.0	0.70	1 / 0	21.50	22.20	0.166	23.00	-0.80
	16-QAM	3625.0	0.70	1 / 49	21.12	21.82	0.152	23.00	-1.18
	64-QAM	3695.0	0.70	1 / 25	20.15	20.85	0.122	23.00	-2.15
	256-QAM	3625.0	0.70	50 / 0	17.10	17.80	0.060	23.00	-5.20
15 MHz	QPSK	3557.5	0.70	1 / 0	21.39	22.09	0.162	23.00	-0.91
		3625.0	0.70	1 / 0	21.50	22.20	0.166	23.00	-0.80
		3692.5	0.70	1 / 0	21.33	22.03	0.160	23.00	-0.97
	16-QAM	3625.0	0.70	1 / 74	21.02	21.72	0.149	23.00	-1.28
	64-QAM	3692.5	0.70	1 / 0	19.95	20.65	0.116	23.00	-2.35
	256-QAM	3625.0	0.70	75 / 0	16.93	17.63	0.058	23.00	-5.37
20 MHz	QPSK	3560.0	0.70	1 / 0	21.26	21.96	0.157	23.00	-1.04
		3625.0	0.70	1 / 0	21.63	22.33	0.171	23.00	-0.67
		3690.0	0.70	1 / 0	21.28	21.98	0.158	23.00	-1.02
	16-QAM	3690.0	0.70	1 / 0	21.01	21.71	0.148	23.00	-1.29
	64-QAM	3625.0	0.70	1 / 0	20.03	20.73	0.118	23.00	-2.27
	256-QAM	3625.0	0.70	100 / 0	16.98	17.68	0.059	23.00	-5.32

Table 7-4. EIRP Data (LTE Band 48)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 115 of 147

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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
10 MHz	π/2 BPSK	3555.0	0.70	24 / 0	21.41	22.11	0.162	23.00	-0.89
		3625.0	0.70	24 / 0	21.48	22.18	0.165	23.00	-0.82
		3695.0	0.70	24 / 0	21.02	21.72	0.149	23.00	-1.28
	QPSK	3555.0	0.70	1 / 12	21.46	22.16	0.164	23.00	-0.84
		3625.0	0.70	1 / 22	21.43	22.13	0.163	23.00	-0.87
		3695.0	0.70	1 / 1	21.03	21.73	0.149	23.00	-1.27
	16-QAM	3555.0	0.70	1 / 22	20.38	21.08	0.128	23.00	-1.92
	64-QAM	3555.0	0.70	24 / 0	19.62	20.32	0.108	23.00	-2.68
	256-QAM	3555.0	0.70	24 / 0	17.62	18.32	0.068	23.00	-4.68
	π/2 BPSK	3557.5	0.70	36 / 0	21.42	22.12	0.163	23.00	-0.88
		3625.0	0.70	1 / 36	21.30	22.00	0.159	23.00	-1.00
		3692.5	0.70	36 / 0	20.97	21.67	0.147	23.00	-1.33
15 MHz	QPSK	3557.5	0.70	1 / 18	21.39	22.09	0.162	23.00	-0.91
		3625.0	0.70	1 / 36	21.36	22.06	0.161	23.00	-0.94
		3692.5	0.70	1 / 36	20.96	21.66	0.146	23.00	-1.34
	16-QAM	3625.0	0.70	1 / 36	20.40	21.10	0.129	23.00	-1.90
	64-QAM	3557.5	0.70	36 / 0	19.52	20.22	0.105	23.00	-2.78
	256-QAM	3557.5	0.70	36 / 0	17.52	18.22	0.066	23.00	-4.78
20 MHz	π/2 BPSK	3560.0	0.70	50 / 0	21.42	22.12	0.163	23.00	-0.88
		3625.0	0.70	50 / 0	21.33	22.03	0.160	23.00	-0.97
		3690.0	0.70	1 / 1	20.96	21.66	0.147	23.00	-1.34
	QPSK	3560.0	0.70	1 / 49	21.36	22.06	0.161	23.00	-0.94
		3625.0	0.70	1 / 49	21.41	22.11	0.163	23.00	-0.89
		3690.0	0.70	1 / 1	20.94	21.64	0.146	23.00	-1.36
	16-QAM	3560.0	0.70	1 / 25	20.23	20.93	0.124	23.00	-2.07
	64-QAM	3560.0	0.70	50 / 0	19.47	20.17	0.104	23.00	-2.83
	256-QAM	3560.0	0.70	50 / 0	17.56	18.26	0.067	23.00	-4.74
30 MHz	π/2 BPSK	3565.0	0.70	1 / 36	21.48	22.18	0.165	23.00	-0.82
		3625.0	0.70	1 / 76	21.39	22.09	0.162	23.00	-0.91
		3685.0	0.70	1 / 1	21.08	21.78	0.151	23.00	-1.22
	QPSK	3565.0	0.70	1 / 36	21.40	22.10	0.162	23.00	-0.90
		3625.0	0.70	1 / 76	21.34	22.04	0.160	23.00	-0.96
		3685.0	0.70	1 / 1	21.11	21.81	0.152	23.00	-1.19
	16-QAM	3565.0	0.70	1 / 1	20.35	21.05	0.127	23.00	-1.95
	64-QAM	3565.0	0.70	75 / 0	19.53	20.23	0.105	23.00	-2.77
	256-QAM	3565.0	0.70	75 / 0	17.47	18.17	0.066	23.00	-4.83
40 MHz	π/2 BPSK	3570.0	0.70	1 / 104	21.50	22.20	0.166	23.00	-0.80
		3625.0	0.70	1 / 50	21.38	22.08	0.161	23.00	-0.92
		3680.0	0.70	1 / 1	21.18	21.88	0.154	23.00	-1.12
	QPSK	3570.0	0.70	1 / 1	21.35	22.05	0.160	23.00	-0.95
		3625.0	0.70	1 / 50	21.29	21.99	0.158	23.00	-1.01
		3680.0	0.70	1 / 1	21.17	21.87	0.154	23.00	-1.13
	16-QAM	3625.0	0.70	1 / 50	20.39	21.09	0.128	23.00	-1.91
	64-QAM	3570.0	0.70	100 / 0	19.53	20.23	0.105	23.00	-2.77
	256-QAM	3570.0	0.70	100 / 0	17.50	18.20	0.066	23.00	-4.80

Table 7-5. EIRP Data (NR Band n48)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 116 of 147

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Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]		
			Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset								
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55457	3571.7	1	0	19.50	0.70	20.20	0.105	23.00	-2.80		
				55990	3625.0	1	99		56107	3636.7	1	0	21.72	0.70	22.42	0.175	23.00	-0.58		
				56640	3690.0	1	0		56523	3678.3	1	24	19.08	0.70	19.78	0.095	23.00	-3.22		
			QPSK	55990	3625	100	0	QPSK	56107	3636.7	100	0	20.35	0.70	21.05	0.127	23.00	-1.95		
				16-QAM	55990	3625	100		0	16-QAM	56107	3636.7	100	0	20.07	0.70	20.77	0.119	23.00	-2.23
				64-QAM	55990	3625	100		0	64-QAM	56107	3636.7	100	0	19.79	0.70	20.49	0.112	23.00	-2.51
Max	LTE B48	20MHz + 10MHz	256-QAM	55990	3625	100	0	256-QAM	56107	3636.7	100	0	19.58	0.70	20.28	0.107	23.00	-2.72		
				55340	3560.0	1	99		55484	3574.4	1	0	18.53	0.70	19.23	0.084	23.00	-3.77		
				55990	3625.0	1	99		56134	3639.4	1	0	21.60	0.70	22.30	0.170	23.00	-0.70		
			QPSK	56640	3690.0	1	0	QPSK	56498	3675.8	1	48	19.40	0.70	19.89	0.113	23.00	-3.81		
				55990	3625	100	0		56134	3639.4	100	0	19.90	0.70	20.60	0.115	23.00	-2.40		
				16-QAM	55990	3625	100		0	16-QAM	56134	3639.4	100	0	19.61	0.70	20.31	0.107	23.00	-2.69
Max	LTE B48	20MHz + 15MHz	64-QAM	55990	3625	100	0	64-QAM	56134	3639.4	100	0	19.36	0.70	20.06	0.101	23.00	-2.94		
				256-QAM	55990	3625	100		0	256-QAM	56134	3639.4	100	0	19.16	0.70	19.86	0.097	23.00	-3.15
				55340	3560.0	1	99		55511	3577.1	1	0	18.64	0.70	19.34	0.086	23.00	-3.66		
			QPSK	55990	3625.0	1	99	QPSK	56161	3642.1	1	0	21.64	0.70	22.34	0.171	23.00	-0.66		
				56640	3690.0	1	0		56489	3672.9	1	74	18.59	0.70	19.59	0.085	23.00	-3.71		
				QPSK	55990	3625	100		0	QPSK	56161	3642.1	100	0	19.92	0.70	20.62	0.115	23.00	-2.39
Max	LTE B48	20MHz + 20MHz	16-QAM	55990	3625	100	0	16-QAM	56161	3642.1	100	0	19.68	0.70	20.38	0.109	23.00	-2.62		
				64-QAM	55990	3625	100		0	64-QAM	56161	3642.1	100	0	19.40	0.70	20.10	0.102	23.00	-2.90
				256-QAM	55990	3625	100		0	256-QAM	56161	3642.1	100	0	19.13	0.70	19.83	0.096	23.00	-3.17
			QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	20.08	0.70	20.78	0.120	23.00	-2.22		
				55990	3625.0	1	99		56188	3644.8	1	0	21.77	0.70	22.47	0.177	23.00	-0.53		
				56640	3690.0	1	0		56442	3670.2	1	99	18.69	0.70	19.39	0.087	23.00	-3.61		
Max	LTE B48	20MHz + 20MHz	QPSK	55990	3625	100	0	QPSK	56188	3644.8	100	0	19.89	0.70	20.59	0.115	23.00	-2.41		
				16-QAM	55990	3625	100		0	16-QAM	56188	3644.8	100	0	19.66	0.70	20.36	0.109	23.00	-2.64
				64-QAM	55990	3625	100		0	64-QAM	56188	3644.8	100	0	19.44	0.70	20.14	0.103	23.00	-2.87
			256-QAM	55990	3625	100	0	256-QAM	56188	3644.8	100	0	19.14	0.70	19.84	0.096	23.00	-3.16		

Table 7-6. EIRP Data (ULCA LTE Band 48)

FCC ID: BCGA3358		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 117 of 147

7.6.3 Antenna 4b – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
5 MHz	QPSK	3552.5	1.40	1 / 12	20.95	22.35	0.172	23.00	-0.65
		3625.0	1.40	1 / 24	20.82	22.22	0.167	23.00	-0.78
		3697.5	1.40	1 / 12	20.98	22.38	0.173	23.00	-0.62
	16-QAM	3697.5	1.40	1 / 0	20.58	21.98	0.158	23.00	-1.02
	64-QAM	3697.5	1.40	1 / 24	19.60	21.00	0.126	23.00	-2.00
	256-QAM	3697.5	1.40	1 / 24	16.50	17.90	0.062	23.00	-5.10
10 MHz	QPSK	3555.0	1.40	1 / 0	20.91	22.31	0.170	23.00	-0.69
		3625.0	1.40	1 / 0	20.90	22.30	0.170	23.00	-0.70
		3695.0	1.40	1 / 0	20.90	22.30	0.170	23.00	-0.70
	16-QAM	3695.0	1.40	1 / 25	20.52	21.92	0.156	23.00	-1.08
	64-QAM	3695.0	1.40	1 / 0	19.56	20.96	0.125	23.00	-2.04
	256-QAM	3555.0	1.40	50 / 0	16.44	17.84	0.061	23.00	-5.16
15 MHz	QPSK	3557.5	1.40	1 / 74	20.85	22.25	0.168	23.00	-0.75
		3625.0	1.40	1 / 0	20.90	22.30	0.170	23.00	-0.70
		3692.5	1.40	1 / 0	20.91	22.31	0.170	23.00	-0.69
	16-QAM	3692.5	1.40	1 / 0	20.54	21.94	0.156	23.00	-1.06
	64-QAM	3692.5	1.40	1 / 0	19.45	20.85	0.122	23.00	-2.15
	256-QAM	3692.5	1.40	1 / 37	16.41	17.81	0.060	23.00	-5.19
20 MHz	QPSK	3560.0	1.40	1 / 0	20.79	22.19	0.166	23.00	-0.81
		3625.0	1.40	1 / 0	20.93	22.33	0.171	23.00	-0.67
		3690.0	1.40	1 / 0	20.80	22.20	0.166	23.00	-0.80
	16-QAM	3690.0	1.40	1 / 0	20.37	21.77	0.150	23.00	-1.23
	64-QAM	3690.0	1.40	1 / 0	19.40	20.80	0.120	23.00	-2.20
	256-QAM	3690.0	1.40	100 / 0	16.39	17.79	0.060	23.00	-5.21

Table 7-7. EIRP Data (LTE Band 48)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 118 of 147

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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
10 MHz	π/2 BPSK	3555.0	1.40	24 / 0	20.83	22.23	0.167	23.00	-0.77
		3625.0	1.40	24 / 0	20.49	21.89	0.155	23.00	-1.11
		3695.0	1.40	24 / 0	20.29	21.69	0.148	23.00	-1.31
	QPSK	3555.0	1.40	1 / 22	20.80	22.20	0.166	23.00	-0.80
		3625.0	1.40	1 / 22	20.38	21.78	0.151	23.00	-1.22
		3695.0	1.40	1 / 1	20.24	21.64	0.146	23.00	-1.36
	16-QAM	3555.0	1.40	1 / 12	19.66	21.06	0.128	23.00	-1.94
15 MHz	64-QAM	3555.0	1.40	24 / 0	18.99	20.39	0.109	23.00	-2.61
	256-QAM	3555.0	1.40	24 / 0	16.98	18.38	0.069	23.00	-4.62
	π/2 BPSK	3557.5	1.40	36 / 0	20.79	22.19	0.166	23.00	-0.81
		3625.0	1.40	36 / 0	20.45	21.85	0.153	23.00	-1.15
		3692.5	1.40	36 / 0	20.29	21.69	0.148	23.00	-1.31
	QPSK	3557.5	1.40	1 / 36	20.71	22.11	0.163	23.00	-0.89
		3625.0	1.40	1 / 1	20.45	21.85	0.153	23.00	-1.15
		3692.5	1.40	1 / 36	20.47	21.87	0.154	23.00	-1.13
	16-QAM	3557.5	1.40	1 / 18	19.66	21.06	0.128	23.00	-1.94
	64-QAM	3557.5	1.40	36 / 0	18.89	20.29	0.107	23.00	-2.71
	256-QAM	3557.5	1.40	36 / 0	16.93	18.33	0.068	23.00	-4.67
20 MHz	π/2 BPSK	3560.0	1.40	50 / 0	20.80	22.20	0.166	23.00	-0.80
		3625.0	1.40	50 / 0	20.49	21.89	0.154	23.00	-1.11
		3690.0	1.40	50 / 0	20.33	21.73	0.149	23.00	-1.27
	QPSK	3560.0	1.40	1 / 25	20.74	22.14	0.164	23.00	-0.86
		3625.0	1.40	1 / 49	20.42	21.82	0.152	23.00	-1.18
		3690.0	1.40	1 / 1	20.32	21.72	0.148	23.00	-1.28
	16-QAM	3560.0	1.40	1 / 49	19.85	21.25	0.133	23.00	-1.75
30 MHz	64-QAM	3560.0	1.40	50 / 0	18.76	20.16	0.104	23.00	-2.84
	256-QAM	3560.0	1.40	50 / 0	16.88	18.28	0.067	23.00	-4.72
	π/2 BPSK	3565.0	1.40	1 / 1	20.77	22.17	0.165	23.00	-0.83
		3625.0	1.40	75 / 0	20.47	21.87	0.154	23.00	-1.13
		3685.0	1.40	75 / 0	20.35	21.75	0.150	23.00	-1.25
	QPSK	3565.0	1.40	1 / 1	20.72	22.12	0.163	23.00	-0.88
		3625.0	1.40	1 / 76	20.52	21.92	0.156	23.00	-1.08
		3685.0	1.40	1 / 1	20.34	21.74	0.149	23.00	-1.26
40 MHz	16-QAM	3565.0	1.40	1 / 36	19.81	21.21	0.132	23.00	-1.79
	64-QAM	3565.0	1.40	75 / 0	18.82	20.22	0.105	23.00	-2.78
	256-QAM	3565.0	1.40	75 / 0	16.82	18.22	0.066	23.00	-4.78
	π/2 BPSK	3570.0	1.40	100 / 0	20.81	22.21	0.166	23.00	-0.79
		3625.0	1.40	100 / 0	20.51	21.91	0.155	23.00	-1.09
		3680.0	1.40	1 / 1	20.63	22.03	0.160	23.00	-0.97
	QPSK	3570.0	1.40	1 / 50	20.72	22.12	0.163	23.00	-0.88
		3625.0	1.40	1 / 104	20.50	21.90	0.155	23.00	-1.10
		3680.0	1.40	1 / 1	20.38	21.78	0.151	23.00	-1.22
	16-QAM	3570.0	1.40	1 / 104	19.73	21.13	0.130	23.00	-1.87
	64-QAM	3570.0	1.40	100 / 0	18.82	20.22	0.105	23.00	-2.78
	256-QAM	3570.0	1.40	100 / 0	16.85	18.25	0.067	23.00	-4.75

Table 7-8. EIRP Data (NR Band n48)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 119 of 147

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Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
			Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset						
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55467	3571.7	1	0	20.73	1.40	22.13	0.163	23.00	-0.88
				55990	3625.0	1	99		56107	3636.7	1	0	20.89	1.40	22.29	0.169	23.00	-0.71
				56640	3690.0	1	0		56223	3678.3	1	24	20.24	1.40	21.64	0.146	23.00	-1.36
			QPSK	55990	3625	100	0	QPSK	56107	3636.7	100	0	20.82	1.40	22.22	0.167	23.00	-0.78
				55990	3625	100	0		56107	3636.7	100	0	20.53	1.40	21.93	0.156	23.00	-1.07
				55990	3625	100	0		56107	3636.7	100	0	20.23	1.40	21.63	0.146	23.00	-1.37
			64-QAM	55990	3625	100	0	64-QAM	56107	3636.7	100	0	19.95	1.40	21.35	0.136	23.00	-1.66
				55990	3625	100	0		56107	3636.7	100	0	19.67	1.40	21.07	0.128	23.00	-1.93
Max	LTE B48	20MHz + 10MHz	QPSK	55340	3560.0	1	99	QPSK	55484	3574.4	1	0	19.67	1.40	21.07	0.128	23.00	-1.93
				55990	3625.0	1	99		56134	3639.4	1	0	21.10	1.40	22.50	0.178	23.00	-0.50
				56640	3690.0	1	0		56496	3675.6	1	49	19.62	1.40	21.02	0.127	23.00	-1.98
			QPSK	55990	3625	100	0	QPSK	56134	3639.4	100	0	20.78	1.40	22.18	0.165	23.00	-0.82
				55990	3625	100	0		56134	3639.4	100	0	20.56	1.40	21.96	0.157	23.00	-1.04
				55990	3625	100	0		56134	3639.4	100	0	20.34	1.40	21.74	0.149	23.00	-1.26
			64-QAM	55990	3625	100	0	64-QAM	56134	3639.4	100	0	20.07	1.40	21.47	0.140	23.00	-1.53
				55990	3625	100	0		56134	3639.4	100	0	19.65	1.40	21.05	0.127	23.00	-1.95
Max	LTE B48	20MHz + 15MHz	QPSK	55340	3560.0	1	99	QPSK	55511	3577.1	1	0	19.65	1.40	21.05	0.127	23.00	-1.95
				55990	3625.0	1	99		56161	3642.1	1	0	21.02	1.40	22.42	0.175	23.00	-0.58
				56640	3690.0	1	0		56469	3672.9	1	74	19.79	1.40	21.19	0.132	23.00	-1.81
			QPSK	55990	3625	100	0	QPSK	56161	3642.1	100	0	20.79	1.40	22.19	0.165	23.00	-0.81
				55990	3625	100	0		56161	3642.1	100	0	20.57	1.40	21.97	0.157	23.00	-1.04
				55990	3625	100	0		56161	3642.1	100	0	20.35	1.40	21.75	0.150	23.00	-1.25
			64-QAM	55990	3625	100	0	64-QAM	56161	3642.1	100	0	20.07	1.40	21.47	0.140	23.00	-1.53
				55990	3625	100	0		56161	3642.1	100	0	19.65	1.40	21.05	0.127	23.00	-1.95
Max	LTE B48	20MHz + 20MHz	QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	21.02	1.40	22.42	0.175	23.00	-0.58
				55990	3625.0	1	99		56188	3644.8	1	0	21.10	1.40	22.50	0.178	23.00	-0.50
				56640	3690.0	1	0		56442	3670.2	1	99	19.59	1.40	20.99	0.125	23.00	-2.02
			QPSK	55990	3625	100	0	QPSK	56188	3644.8	100	0	20.81	1.40	22.21	0.166	23.00	-0.79
				55990	3625	100	0		56188	3644.8	100	0	20.59	1.40	21.99	0.158	23.00	-1.01
				55990	3625	100	0		56188	3644.8	100	0	20.30	1.40	21.70	0.148	23.00	-1.30
			64-QAM	55990	3625	100	0	64-QAM	56188	3644.8	100	0	20.04	1.40	21.44	0.139	23.00	-1.56
				55990	3625	100	0		56188	3644.8	100	0	19.65	1.40	21.05	0.127	23.00	-1.95

Table 7-9. EIRP Data (ULCA LTE Band 48)

FCC ID: BCGA3358		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 120 of 147

7.6.4 Antenna 2b – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
5 MHz	QPSK	3552.5	-0.80	1 / 24	23.14	22.34	0.171	23.00	-0.66
		3625.0	-0.80	1 / 12	23.02	22.22	0.167	23.00	-0.78
		3697.5	-0.80	1 / 12	22.94	22.14	0.164	23.00	-0.86
	16-QAM	3552.5	-0.80	1 / 24	22.78	21.98	0.158	23.00	-1.02
	64-QAM	3552.5	-0.80	1 / 12	21.63	20.83	0.121	23.00	-2.17
	256-QAM	3552.5	-0.80	1 / 24	18.62	17.82	0.061	23.00	-5.18
10 MHz	QPSK	3555.0	-0.80	1 / 49	23.13	22.33	0.171	23.00	-0.67
		3625.0	-0.80	1 / 0	23.18	22.38	0.173	23.00	-0.62
		3695.0	-0.80	1 / 0	22.96	22.16	0.164	23.00	-0.84
	16-QAM	3555.0	-0.80	1 / 0	22.75	21.95	0.157	23.00	-1.05
	64-QAM	3555.0	-0.80	1 / 25	21.66	20.86	0.122	23.00	-2.14
	256-QAM	3555.0	-0.80	50 / 0	18.65	17.85	0.061	23.00	-5.15
15 MHz	QPSK	3557.5	-0.80	1 / 74	23.02	22.22	0.167	23.00	-0.78
		3625.0	-0.80	1 / 0	23.05	22.25	0.168	23.00	-0.75
		3692.5	-0.80	1 / 0	22.85	22.05	0.160	23.00	-0.95
	16-QAM	3625.0	-0.80	1 / 0	22.56	21.76	0.150	23.00	-1.24
	64-QAM	3625.0	-0.80	1 / 0	21.56	20.76	0.119	23.00	-2.24
	256-QAM	3625.0	-0.80	75 / 0	18.47	17.67	0.058	23.00	-5.33
20 MHz	QPSK	3560.0	-0.80	1 / 0	22.89	22.09	0.162	23.00	-0.91
		3625.0	-0.80	1 / 0	23.17	22.37	0.173	23.00	-0.63
		3690.0	-0.80	1 / 0	22.77	21.97	0.157	23.00	-1.03
	16-QAM	3560.0	-0.80	1 / 0	22.55	21.75	0.150	23.00	-1.25
	64-QAM	3625.0	-0.80	1 / 0	21.65	20.85	0.122	23.00	-2.15
	256-QAM	3625.0	-0.80	100 / 0	18.52	17.72	0.059	23.00	-5.28

Table 7-10. EIRP Data (LTE Band 48)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-13.BCG	Test Dates: 3/9/2025-7/14/2025	EUT Type: Tablet Device	Page 121 of 147

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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
10 MHz	π/2 BPSK	3555.0	-0.80	24 / 0	22.87	22.07	0.161	23.00	-0.93
		3625.0	-0.80	24 / 0	23.06	22.26	0.168	23.00	-0.74
		3695.0	-0.80	24 / 0	22.95	22.15	0.164	23.00	-0.85
	QPSK	3555.0	-0.80	24 / 0	22.87	22.07	0.161	23.00	-0.93
		3625.0	-0.80	24 / 0	22.86	22.06	0.161	23.00	-0.94
		3695.0	-0.80	24 / 0	23.09	22.29	0.169	23.00	-0.71
	16-QAM	3625.0	-0.80	24 / 0	22.01	21.21	0.132	23.00	-1.79
15 MHz	π/2 BPSK	3555.0	-0.80	24 / 0	21.11	20.31	0.107	23.00	-2.69
		3555.0	-0.80	24 / 0	19.20	18.40	0.069	23.00	-4.60
		3557.5	-0.80	36 / 0	22.81	22.01	0.159	23.00	-0.99
	QPSK	3625.0	-0.80	1 / 36	23.09	22.29	0.169	23.00	-0.71
		3692.5	-0.80	1 / 1	23.04	22.24	0.167	23.00	-0.76
		3557.5	-0.80	36 / 0	22.98	22.18	0.165	23.00	-0.82
	16-QAM	3625.0	-0.80	36 / 0	22.95	22.15	0.164	23.00	-0.85
		3692.5	-0.80	36 / 0	23.02	22.22	0.167	23.00	-0.78
		3692.5	-0.80	36 / 0	22.06	21.26	0.134	23.00	-1.74
	64-QAM	3692.5	-0.80	36 / 0	21.08	20.28	0.107	23.00	-2.72
20 MHz	π/2 BPSK	3557.5	-0.80	36 / 0	19.19	18.39	0.069	23.00	-4.61
		3560.0	-0.80	50 / 0	22.90	22.10	0.162	23.00	-0.90
		3625.0	-0.80	50 / 0	23.09	22.29	0.169	23.00	-0.71
	QPSK	3690.0	-0.80	1 / 1	22.85	22.05	0.160	23.00	-0.95
		3560.0	-0.80	50 / 0	22.99	22.19	0.166	23.00	-0.81
		3625.0	-0.80	1 / 49	22.87	22.07	0.161	23.00	-0.93
	16-QAM	3690.0	-0.80	50 / 0	23.07	22.27	0.169	23.00	-0.73
30 MHz	π/2 BPSK	3690.0	-0.80	50 / 0	21.98	21.18	0.131	23.00	-1.82
		3560.0	-0.80	50 / 0	21.06	20.26	0.106	23.00	-2.74
		3625.0	-0.80	50 / 0	19.17	18.37	0.069	23.00	-4.63
	QPSK	3565.0	-0.80	1 / 1	22.99	22.19	0.166	23.00	-0.81
		3625.0	-0.80	1 / 76	23.05	22.25	0.168	23.00	-0.75
		3685.0	-0.80	1 / 36	22.99	22.19	0.166	23.00	-0.81
	16-QAM	3565.0	-0.80	1 / 1	23.09	22.29	0.169	23.00	-0.71
40 MHz	π/2 BPSK	3625.0	-0.80	75 / 0	22.81	22.01	0.159	23.00	-0.99
		3685.0	-0.80	75 / 0	23.00	22.20	0.166	23.00	-0.80
		3625.0	-0.80	75 / 0	22.06	21.26	0.134	23.00	-1.74
	QPSK	3685.0	-0.80	75 / 0	21.10	20.30	0.107	23.00	-2.70
		3625.0	-0.80	75 / 0	19.17	18.37	0.069	23.00	-4.63
		3570.0	-0.80	1 / 1	23.00	22.20	0.166	23.00	-0.80
	16-QAM	3625.0	-0.80	100 / 0	23.09	22.29	0.169	23.00	-0.71
		3680.0	-0.80	1 / 1	23.00	22.20	0.166	23.00	-0.80
		3570.0	-0.80	1 / 104	23.06	22.26	0.168	23.00	-0.74
	64-QAM	3625.0	-0.80	100 / 0	23.08	22.28	0.169	23.00	-0.72
		3680.0	-0.80	1 / 1	22.90	22.10	0.162	23.00	-0.90
	256-QAM	3680.0	-0.80	1 / 1	22.04	21.24	0.133	23.00	-1.76
	256-QAM	3570.0	-0.80	100 / 0	21.12	20.32	0.108	23.00	-2.68
		3625.0	-0.80	100 / 0	19.19	18.39	0.069	23.00	-4.61

Table 7-11. EIRP Data (NR Band n48)

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Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]			
			Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]							UL # RB	UL RB Offset	
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55457	3571.7	1	0	19.30	-0.80	18.50	0.071	23.00	-4.51	
				55990	3625.0	1	99		56107	3636.7	1	0	22.21	-0.80	21.41	0.138	23.00	-1.60	
				56640	3690.0	1	0		56523	3678.3	1	24	18.62	-0.80	17.82	0.061	23.00	-5.18	
				55990	3625	100	0		56107	3636.7	100	0	19.97	-0.80	19.17	0.083	23.00	-3.83	
			16-QAM	55990	3625	100	0	16-QAM	56107	3636.7	100	0	19.73	-0.80	18.93	0.078	23.00	-4.08	
				64-QAM	55990	3625	100	0	64-QAM	56107	3636.7	100	0	19.49	-0.80	18.69	0.074	23.00	-4.31
				256-QAM	55990	3625	100	0	256-QAM	56107	3636.7	100	0	19.22	-0.80	18.42	0.069	23.00	-4.58
				Max	LTE B48	20MHz + 10MHz	QPSK	55340	3560.0	1	99	QPSK	55484	3574.4	1	0	18.11	-0.80	17.31
55990	3625.0	1	99					56134	3639.4	1	0		22.63	-0.80	21.83	0.152	23.00	-1.18	
56640	3690.0	1	0					56496	3675.6	1	49		18.16	-0.80	17.36	0.054	23.00	-5.64	
55990	3625	100	0					56134	3639.4	100	0		19.48	-0.80	18.68	0.074	23.00	-4.33	
16-QAM	55990	3625	100				0	16-QAM	56134	3639.4	100	0	19.25	-0.80	18.45	0.070	23.00	-4.55	
	64-QAM	55990	3625				100	0	64-QAM	56134	3639.4	100	0	18.97	-0.80	18.17	0.066	23.00	-4.83
	256-QAM	55990	3625				100	0	256-QAM	56134	3639.4	100	0	18.74	-0.80	17.94	0.062	23.00	-5.06
	Max	LTE B48	20MHz + 15MHz				QPSK	55340	3560.0	1	99	QPSK	55511	3577.1	1	0	18.20	-0.80	17.40
55990				3625.0	1	99		56161	3642.1	1	0		23.20	-0.80	22.40	0.174	23.00	-0.60	
56640				3690.0	1	0		56469	3672.9	1	74		18.14	-0.80	17.34	0.054	23.00	-5.66	
55990				3625	100	0		QPSK	56161	3642.1	100		0	19.46	-0.80	18.66	0.073	23.00	-4.35
16-QAM				55990	3625	100	0	16-QAM	56161	3642.1	100	0	19.23	-0.80	18.43	0.070	23.00	-4.57	
				64-QAM	55990	3625	100	0	64-QAM	56161	3642.1	100	0	18.99	-0.80	18.19	0.066	23.00	-4.81
				256-QAM	55990	3625	100	0	256-QAM	56161	3642.1	100	0	18.75	-0.80	17.95	0.062	23.00	-5.05
				Max	LTE B48	20MHz + 20MHz	QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	19.75	-0.80	18.95
55990	3625.0	1	99					56188	3644.8	1	0		23.13	-0.80	22.33	0.171	23.00	-0.67	
56640	3690.0	1	0					56442	3670.2	1	99		18.11	-0.80	17.31	0.054	23.00	-5.69	
55990	3625	100	0					QPSK	56188	3644.8	100		0	19.46	-0.80	18.66	0.073	23.00	-4.34
16-QAM	55990	3625	100				0	16-QAM	56188	3644.8	100	0	19.23	-0.80	18.43	0.070	23.00	-4.43	
	64-QAM	55990	3625				100	0	64-QAM	56188	3644.8	100	0	18.94	-0.80	18.14	0.065	23.00	-4.86
	256-QAM	55990	3625				100	0	256-QAM	56188	3644.8	100	0	18.66	-0.80	17.86	0.061	23.00	-5.14

Table 7-12. EIRP Data (ULCA LTE Band 48)

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7.7 Radiated Spurious Emissions

§2.1053 §96.41(e)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26-2015

TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize

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Test Setup

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

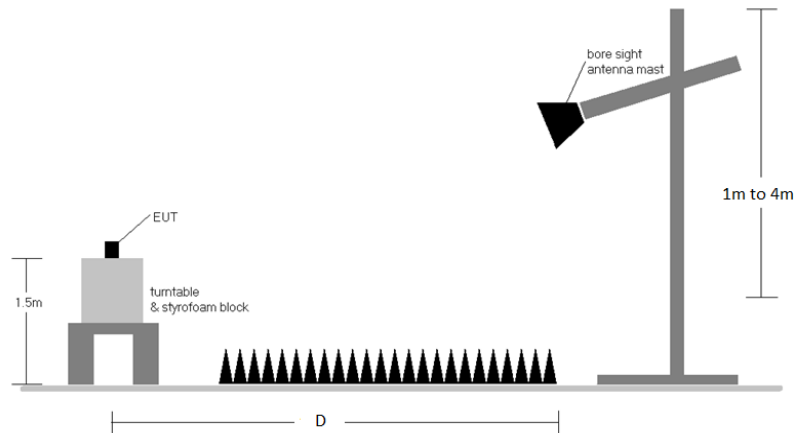


Figure 7-11. Test Instrument & Measurement Setup

Test Notes

- Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 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. 1RB config was found and reported as a worst case RB size.
- This unit was tested with its standard battery.
- The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- No significant emissions were found for below 1GHz measurement.
- Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- For pre-scans 1-18GHz, the RBW is set to 1MHz and VBW to 30kHz. For final measurements above 1GHz, the RBW is set to 1MHz and VBW to 3MHz when measuring with an RMS detector and max hold trace.
- Uplink carrier aggregation intra-band radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
- 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.
- Pre-scan plots have been reported for the highest power antenna while measurements have been reported for all antennas.

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7.7.1 Antenna 3 Radiated Spurious Emissions Measurements

LTE Band 48

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.06	6.10	35.04	-60.22	-40.00	-20.22
10680.0	V	-	-	-79.39	9.12	36.72	-58.53	-40.00	-18.53
14240.0	V	-	-	-80.70	13.78	40.07	-55.18	-40.00	-15.18

Table 7-13. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-77.91	5.96	35.05	-60.20	-40.00	-20.20
10875.0	V	-	-	-79.40	9.42	37.02	-58.24	-40.00	-18.24
14500.0	V	-	-	-80.84	14.52	40.67	-54.58	-40.00	-14.58

Table 7-14. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-77.64	5.66	35.01	-60.25	-40.00	-20.25
11070.0	H	-	-	-79.24	9.36	37.12	-58.14	-40.00	-18.14
14760.0	V	-	-	-81.03	15.46	41.43	-53.83	-40.00	-13.83

Table 7-15. Radiated Spurious Data (LTE Band 48 – High Channel)

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ULCA LTE Band 48

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-77.95	5.99	35.04	-60.21	-40.00	-20.21
10680.0	V	-	-	-79.04	9.05	37.01	-58.24	-40.00	-18.24
14240.0	H	-	-	-80.65	13.71	40.06	-55.20	-40.00	-15.20

Table 7-16. Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-77.94	5.93	34.98	-60.28	-40.00	-20.28
10875.0	V	-	-	-78.57	9.60	38.03	-57.23	-40.00	-17.23
14500.0	V	-	-	-80.87	14.54	40.67	-54.59	-40.00	-14.59

Table 7-17. Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-77.83	5.66	34.83	-60.43	-40.00	-20.43
11070.0	V	-	-	-78.94	9.31	37.36	-57.89	-40.00	-17.89
14760.0	H	-	-	-81.02	15.00	40.99	-54.27	-40.00	-14.27

Table 7-18. Radiated Spurious Data (ULCA LTE Band 48– High Channel)

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NR Band n48

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.22	6.19	34.97	-60.29	-40.00	-20.29
10680.0	V	-	-	-79.40	9.59	37.19	-58.07	-40.00	-18.07
14240.0	H	-	-	-80.81	14.58	40.77	-54.49	-40.00	-14.49

Table 7-19. Radiated Spurious Data (NR Band n48 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-77.98	5.96	34.98	-60.27	-40.00	-20.27
10875.0	V	-	-	-79.52	9.59	37.08	-58.18	-40.00	-18.18
14500.0	V	-	-	-80.95	14.56	40.61	-54.65	-40.00	-14.65

Table 7-20. Radiated Spurious Data (NR Band n48 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-77.77	5.66	34.88	-60.38	-40.00	-20.38
11070.0	V	-	-	-79.42	9.31	36.88	-58.37	-40.00	-18.37
14760.0	H	-	-	-81.33	15.33	41.00	-54.26	-40.00	-14.26

Table 7-21. Radiated Spurious Data (NR Band n48 – High Channel)

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7.7.2 Antenna 1 Radiated Spurious Emissions Measurements

LTE Band 48

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.12	6.10	34.98	-60.28	-40.00	-20.28
10680.0	V	100	235	-74.88	9.05	41.18	-54.08	-40.00	-14.08
14240.0	V	-	-	-80.77	13.72	39.95	-55.31	-40.00	-15.31
17800.0	H	-	-	-81.80	18.14	43.34	-51.92	-40.00	-11.92

Table 7-22. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.14	6.19	35.06	-60.20	-40.00	-20.20
10875.0	V	100	228	-72.61	9.62	44.01	-51.25	-40.00	-11.25
14500.0	V	-	-	-81.00	14.52	40.52	-54.74	-40.00	-14.74

Table 7-23. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-77.63	5.66	35.03	-60.23	-40.00	-20.23
11070.0	V	249	197	-73.58	9.30	42.72	-52.54	-40.00	-12.54
14760.0	H	-	-	-81.23	15.41	41.18	-54.08	-40.00	-14.08

Table 7-24. Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 48

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-77.91	6.10	35.19	-60.07	-40.00	-20.07
10680.0	H	-	-	-79.32	9.22	36.89	-58.36	-40.00	-18.36
14240.0	V	-	-	-80.69	13.71	40.02	-55.24	-40.00	-15.24

Table 7-25. Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-78.27	6.19	34.92	-60.34	-40.00	-20.34
10875.0	H	-	-	-79.19	9.59	37.40	-57.86	-40.00	-17.86
14500.0	H	-	-	-80.63	14.49	40.86	-54.40	-40.00	-14.40

Table 7-26. Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-77.74	5.66	34.91	-60.35	-40.00	-20.35
11070.0	H	-	-	-78.98	9.33	37.35	-57.91	-40.00	-17.91
14760.0	H	-	-	-81.34	15.33	40.99	-54.26	-40.00	-14.26

Table 7-27. Radiated Spurious Data (ULCA LTE Band 48– High Channel)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n48

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-77.80	6.10	35.30	-59.96	-40.00	-19.96
10680.0	V	-	-	-79.23	9.05	36.82	-58.43	-40.00	-18.43
14240.0	V	-	-	-80.79	13.71	39.92	-55.33	-40.00	-15.33

Table 7-28. Radiated Spurious Data (NR Band n48 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-77.85	5.93	35.08	-60.18	-40.00	-20.18
10875.0	H	-	-	-79.41	9.42	37.00	-58.25	-40.00	-18.25
14500.0	H	-	-	-80.62	14.56	40.94	-54.32	-40.00	-14.32

Table 7-29. Radiated Spurious Data (NR Band n48 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-77.86	5.77	34.91	-60.35	-40.00	-20.35
11070.0	H	-	-	-79.47	9.42	36.95	-58.31	-40.00	-18.31
14760.0	H	-	-	-81.26	15.14	40.88	-54.38	-40.00	-14.38

Table 7-30. Radiated Spurious Data (NR Band n48 – High Channel)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.3 Antenna 4b Radiated Spurious Emissions Measurements

LTE Band 48

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-77.68	5.99	35.31	-59.95	-40.00	-19.95
10680.0	H	-	-	-79.53	9.12	36.59	-58.67	-40.00	-18.67
14240.0	V	-	-	-80.60	13.64	40.04	-55.22	-40.00	-15.22

Table 7-31. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-78.03	5.93	34.90	-60.36	-40.00	-20.36
10875.0	V	-	-	-79.55	9.62	37.07	-58.19	-40.00	-18.19
14500.0	H	-	-	-80.72	14.52	40.79	-54.46	-40.00	-14.46

Table 7-32. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-77.85	5.89	35.04	-60.22	-40.00	-20.22
11070.0	H	-	-	-79.05	9.36	37.31	-57.95	-40.00	-17.95
14760.0	V	-	-	-81.27	15.46	41.20	-54.06	-40.00	-14.06

Table 7-33. Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 48

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.03	5.99	34.97	-60.29	-40.00	-20.29
10680.0	V	-	-	-79.17	9.19	37.03	-58.23	-40.00	-18.23
14240.0	H	-	-	-80.60	13.65	40.05	-55.21	-40.00	-15.21

Table 7-34. Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-77.70	5.85	35.15	-60.11	-40.00	-20.11
10875.0	H	-	-	-79.20	9.60	37.41	-57.85	-40.00	-17.85
14500.0	V	-	-	-80.54	14.47	40.93	-54.32	-40.00	-14.32

Table 7-35. Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-77.99	5.66	34.66	-60.59	-40.00	-20.59
11070.0	V	-	-	-79.33	9.42	37.10	-58.16	-40.00	-18.16
14760.0	V	-	-	-81.13	15.14	41.01	-54.24	-40.00	-14.24

Table 7-36. Radiated Spurious Data (ULCA LTE Band 48– High Channel)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n48

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.10	6.10	34.99	-60.27	-40.00	-20.27
10680.0	H	-	-	-79.48	9.05	36.57	-58.68	-40.00	-18.68
14240.0	H	-	-	-80.67	13.71	40.04	-55.22	-40.00	-15.22

Table 7-37. Radiated Spurious Data (NR Band n48 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-77.96	5.93	34.97	-60.29	-40.00	-20.29
10875.0	H	-	-	-79.49	9.59	37.10	-58.16	-40.00	-18.16
14500.0	H	-	-	-80.90	14.49	40.59	-54.67	-40.00	-14.67

Table 7-38. Radiated Spurious Data (NR Band n48 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-77.71	5.66	34.94	-60.32	-40.00	-20.32
11070.0	H	-	-	-79.35	9.33	36.98	-58.27	-40.00	-18.27
14760.0	H	-	-	-80.99	15.14	41.16	-54.10	-40.00	-14.10

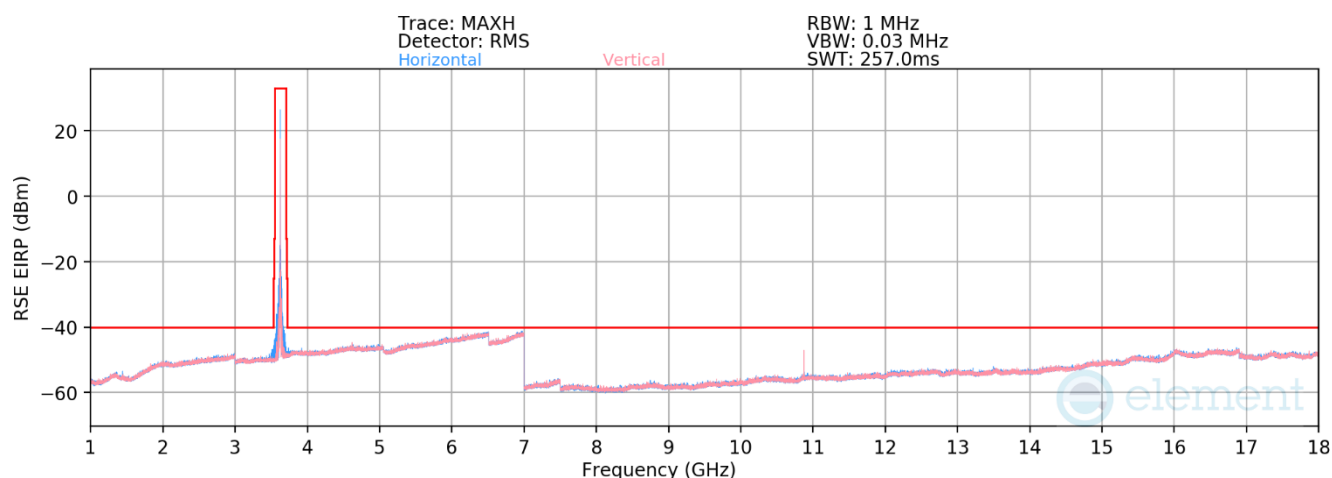
Table 7-39. Radiated Spurious Data (NR Band n48 – High Channel)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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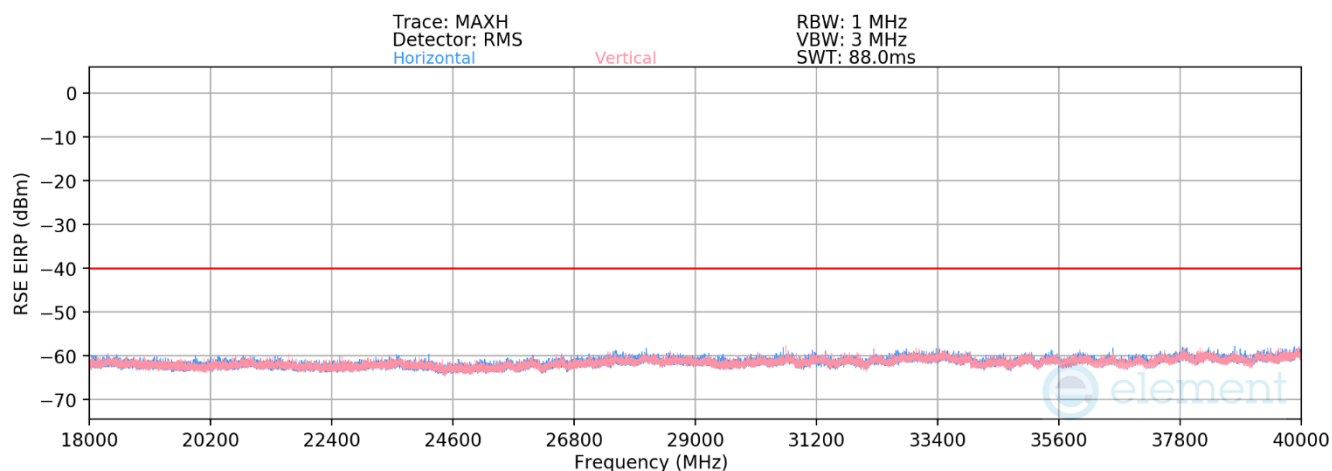
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7.7.4 Antenna 2b Radiated Spurious Emissions Measurements

LTE Band 48



Plot 7-178. Radiated Spurious Plot 1 – 18GHz (LTE Band 48)



Plot 7-179. Radiated Spurious Plot 18 – 40GHz (LTE Band 48)

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Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-78.04	5.99	34.94	-60.31	-40.00	-20.31
10680.0	V	-	-	-79.58	9.12	36.54	-58.72	-40.00	-18.72
14240.0	H	-	-	-80.66	13.72	40.07	-55.19	-40.00	-15.19

Table 7-40. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.15	6.19	35.05	-60.21	-40.00	-20.21
10875.0	H	-	-	-79.33	9.42	37.09	-58.17	-40.00	-18.17
14500.0	V	-	-	-80.81	14.56	40.75	-54.51	-40.00	-14.51

Table 7-41. Radiated Spurious Data (LTE Band 48 – Mid Channel)

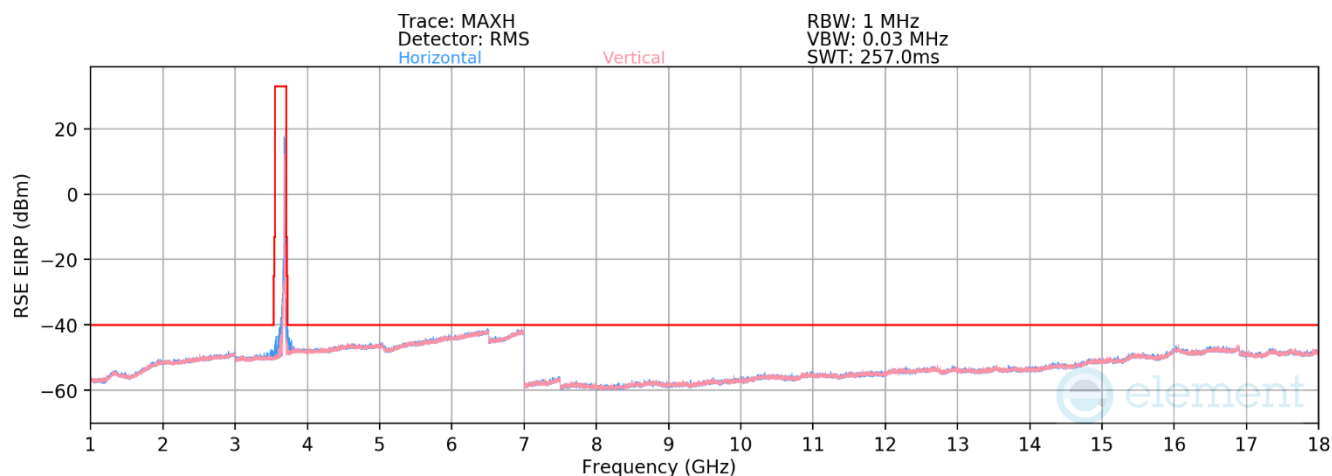
Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-77.87	5.89	35.02	-60.23	-40.00	-20.23
11070.0	V	-	-	-79.14	9.36	37.22	-58.04	-40.00	-18.04
14760.0	H	-	-	-81.24	15.46	41.22	-54.04	-40.00	-14.04

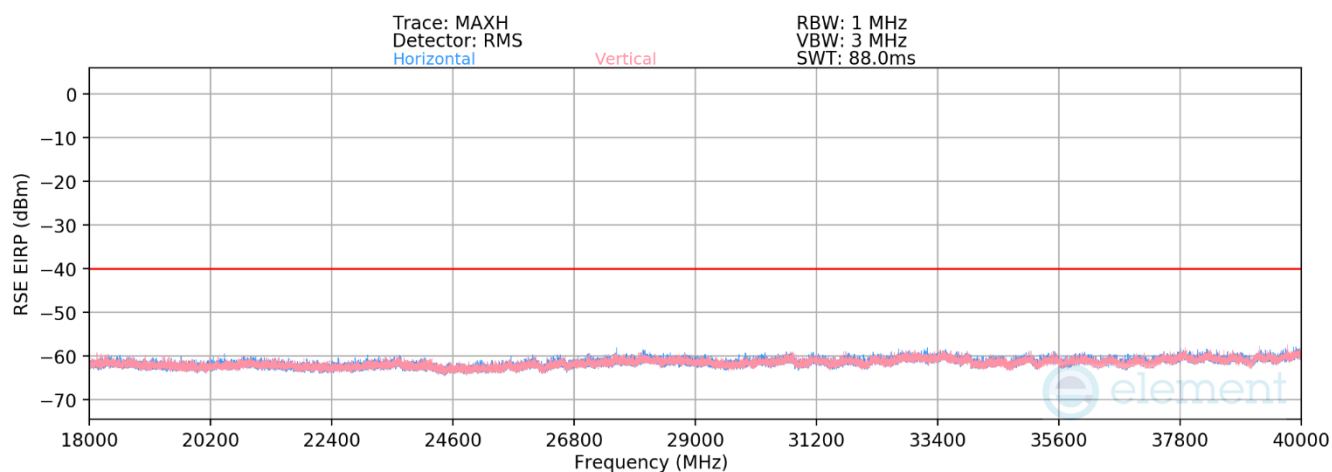
Table 7-42. Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 48



Plot 7-180. Radiated Spurious Plot 1 – 18GHz (ULCA LTE Band 48)



Plot 7-181. Radiated Spurious Plot 18 – 40GHz (ULCA LTE Band 48)

FCC ID: BCGA3358	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	H	-	-	-78.04	5.99	34.95	-60.31	-40.00	-20.31
10680.0	V	-	-	-79.43	9.19	36.76	-58.50	-40.00	-18.50
14240.0	H	-	-	-80.61	13.71	40.10	-55.15	-40.00	-15.15

Table 7-43. Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	H	-	-	-78.21	6.19	34.98	-60.28	-40.00	-20.28
10875.0	V	-	-	-78.62	9.59	37.97	-57.28	-40.00	-17.28
14500.0	H	-	-	-80.43	14.44	41.01	-54.24	-40.00	-14.24

Table 7-44. Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

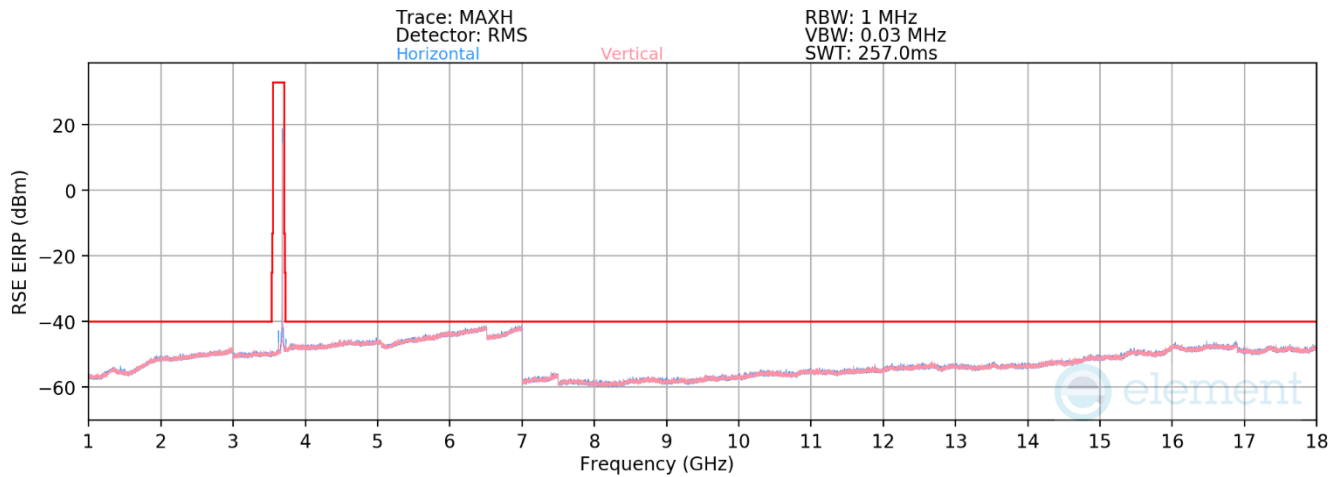
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-77.87	5.77	34.90	-60.36	-40.00	-20.36
11070.0	V	-	-	-79.18	9.42	37.24	-58.01	-40.00	-18.01
14760.0	V	-	-	-80.90	15.14	41.24	-54.02	-40.00	-14.02

Table 7-45. Radiated Spurious Data (ULCA LTE Band 48– High Channel)

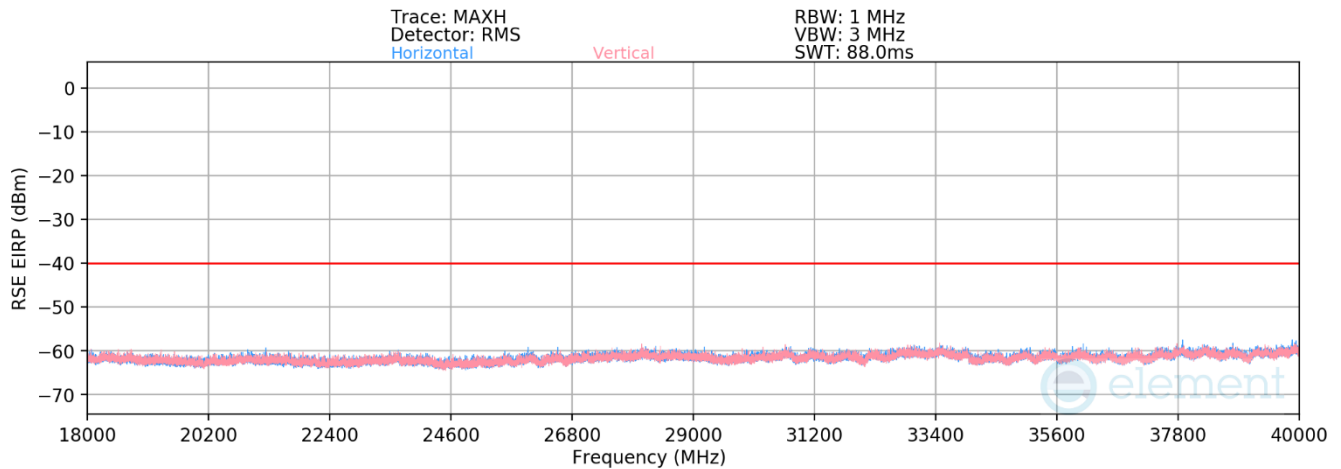
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NR Band n48



Plot 7-182. Radiated Spurious Plot 1 – 18GHz (NR Band n48)



Plot 7-183. Radiated Spurious Plot 18 – 40GHz (NR Band n48)

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Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7120.0	V	-	-	-77.56	5.99	35.43	-59.83	-40.00	-19.83
10680.0	V	-	-	-79.67	9.22	36.55	-58.71	-40.00	-18.71
14240.0	V	-	-	-80.63	13.71	40.08	-55.18	-40.00	-15.18

Table 7-46. Radiated Spurious Data (NR Band n48 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7250.0	V	-	-	-78.25	6.19	34.95	-60.31	-40.00	-20.31
10875.0	V	-	-	-79.40	9.42	37.01	-58.24	-40.00	-18.24
14500.0	H	-	-	-80.87	14.56	40.69	-54.56	-40.00	-14.56

Table 7-47. Radiated Spurious Data (NR Band n48 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-77.86	5.66	34.80	-60.46	-40.00	-20.46
11070.0	V	-	-	-79.18	9.33	37.15	-58.11	-40.00	-18.11
14760.0	V	-	-	-81.12	15.33	41.21	-54.05	-40.00	-14.05

Table 7-48. Radiated Spurious Data (NR Band n48 – High Channel)

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7.8 Frequency Stability / Temperature Variation

§2.1055

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

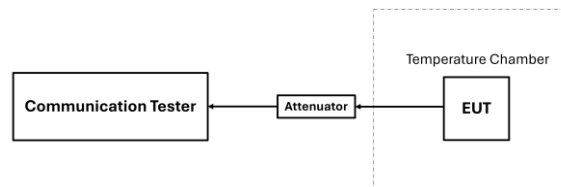


Figure 7-12. LTE Test Instrument & Measurement Setup

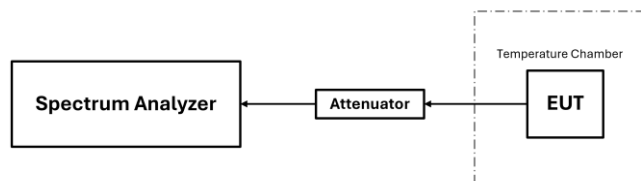


Figure 7-13. FR1 Test Instrument & Measurement Setup

Test Notes

All ports were tested and only the worst case data were reported.

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Frequency Stability / Temperature Variation

LTE Band 48				
Operating Band Lower Boundary (GHz)			3.550	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	3.55046322	-0.00046322
		- 20	3.55042981	-0.00042981
		- 10	3.55049810	-0.00049810
		0	3.55044168	-0.00044168
		+ 10	3.55045670	-0.00045670
		+ 20 (Ref)	3.55048422	-0.00048422
		+ 30	3.55047037	-0.00047037
		+ 40	3.55041294	-0.00041294
		+ 50	3.55049175	-0.00049175
Battery Endpoint	3.40	+ 20	3.55043752	-0.00043752

Table 49. LTE Band 48 Lower Boundary Frequency Stability Data

LTE Band 48				
Operating Band Upper Boundary (GHz)			3.700	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	3.69946821	-0.00053180
		- 20	3.69949173	-0.00050827
		- 10	3.69942059	-0.00057941
		0	3.69944397	-0.00055603
		+ 10	3.69948416	-0.00051584
		+ 20 (Ref)	3.69945872	-0.00054128
		+ 30	3.69947131	-0.00052869
		+ 40	3.69942781	-0.00057219
		+ 50	3.69949563	-0.00050437
Battery Endpoint	3.40	+ 20	3.69943926	-0.00056074

Table 50. LTE Band 48 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n48				
Operating Band Lower Boundary (GHz)			3.550	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	3.55041694	-0.00041694
		- 20	3.55048962	-0.00048962
		- 10	3.55044325	-0.00044325
		0	3.55045780	-0.00045780
		+ 10	3.55047392	-0.00047392
		+ 20 (Ref)	3.55042907	-0.00042907
		+ 30	3.55049471	-0.00049471
		+ 40	3.55044820	-0.00044820
		+ 50	3.55046852	-0.00046852
Battery Endpoint	3.40	+ 20	3.55040538	-0.00040538

Table 51. NR Band n48 Lower Boundary Frequency Stability Data

NR Band n48				
Operating Band Upper Boundary (GHz)			3.700	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	3.69950623	-0.00049377
		- 20	3.69947489	-0.00052511
		- 10	3.69959319	-0.00040681
		0	3.69942681	-0.00057320
		+ 10	3.69958134	-0.00041866
		+ 20 (Ref)	3.69945310	-0.00054690
		+ 30	3.69954076	-0.00045924
		+ 40	3.69948713	-0.00051288
		+ 50	3.69956391	-0.00043609
Battery Endpoint	3.40	+ 20	3.69949860	-0.00050140

Table 52. NR Band n48 Upper Boundary Frequency Stability Data

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7.9 End User Device Additional Requirement (CBSD Protocol)

\$96.47

Test Overview and Limit

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified CBSDs (AirSpan FCC ID(s): PIDAV1901 and PIDAV1500) as a companion device to show compliance with Part 96.47.

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

Test Procedure Used

KDB 940660 D01 v03

WINNF-TS-0122 v1.0.2

Test Setup/Method

The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification.

1. Run#1:
 - a. Setup WINNF.PT.C.HBT.1 with 3615 – 3635MHz.
 - b. Enable AP service from Airspan Cloud Platform.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Airspan Cloud Platform and check EUT stop transmission within 10s.
2. Run#2:
 - a. Setup WINNF.PT.C.HBT.1 with 3615MHz – 3635MHz.
 - b. Enable AP service from Airspan Cloud Platform.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Airspan Cloud Platform and check EUT stop transmission within 10s.

Test Notes

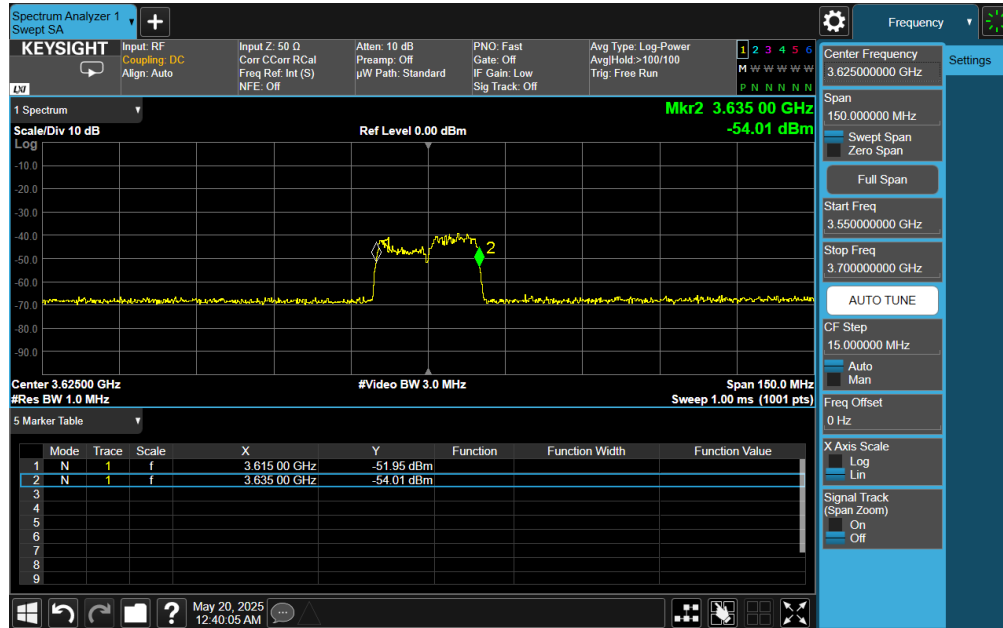
The EUT is an End User Device.

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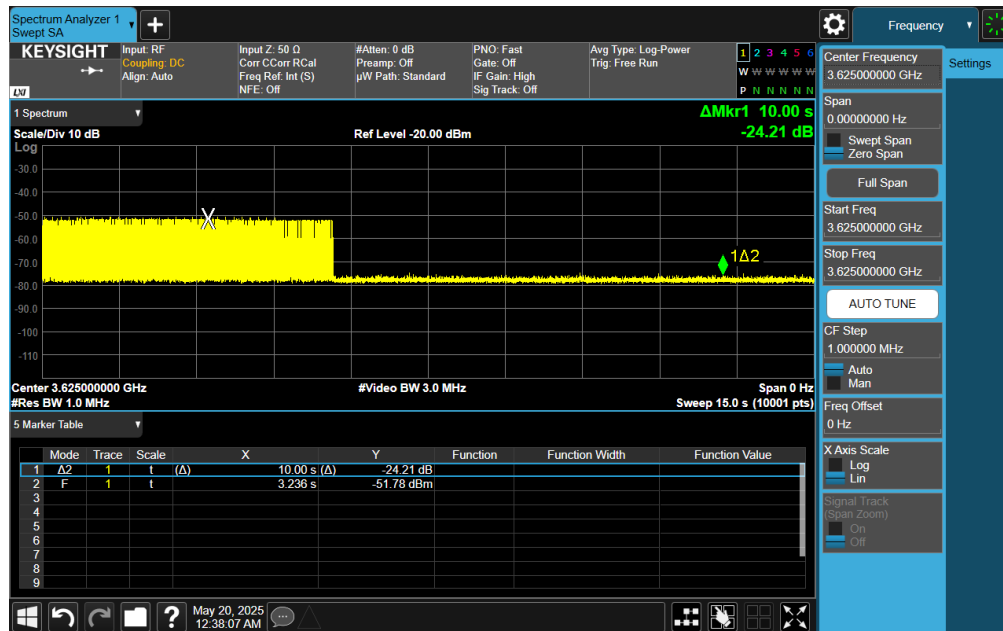
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Run#1 LTE-B48:

- Tx Frequency Set: 3615 – 3635MHz
- MaxEIRP Set: 10dBm/MHz



Plot 7-184. Run#1 End User Device Frequency of Operations



Plot 7-185. Run#1 End User Device Discontinues Operations within 10s

Note:

Marker 1: CBSD sends instructions to discontinue LTE operations.
 Marker 2: 10 seconds elapsed time from CBSD sending instructions to EUT.

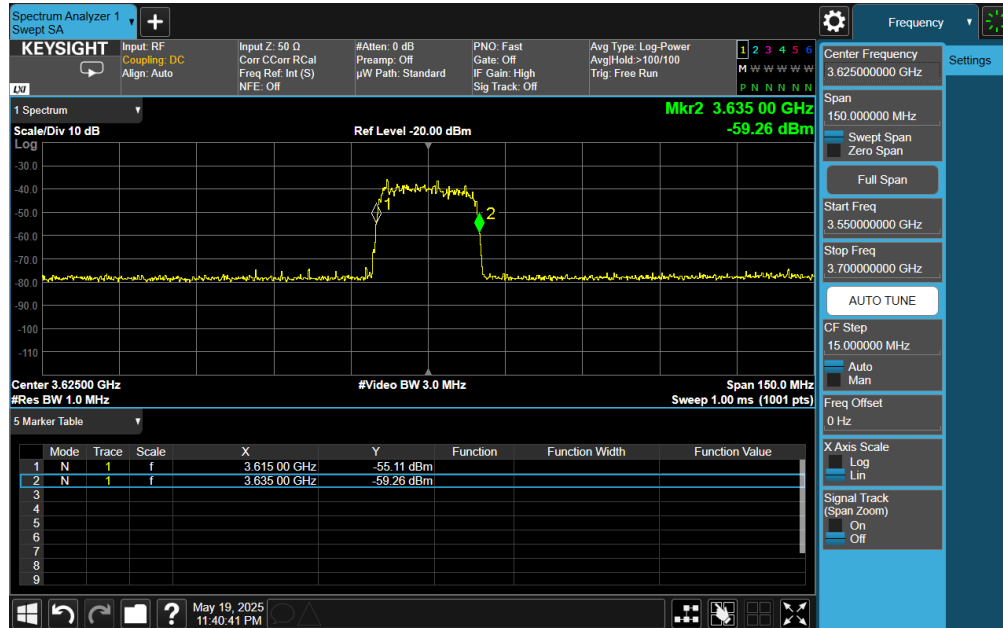
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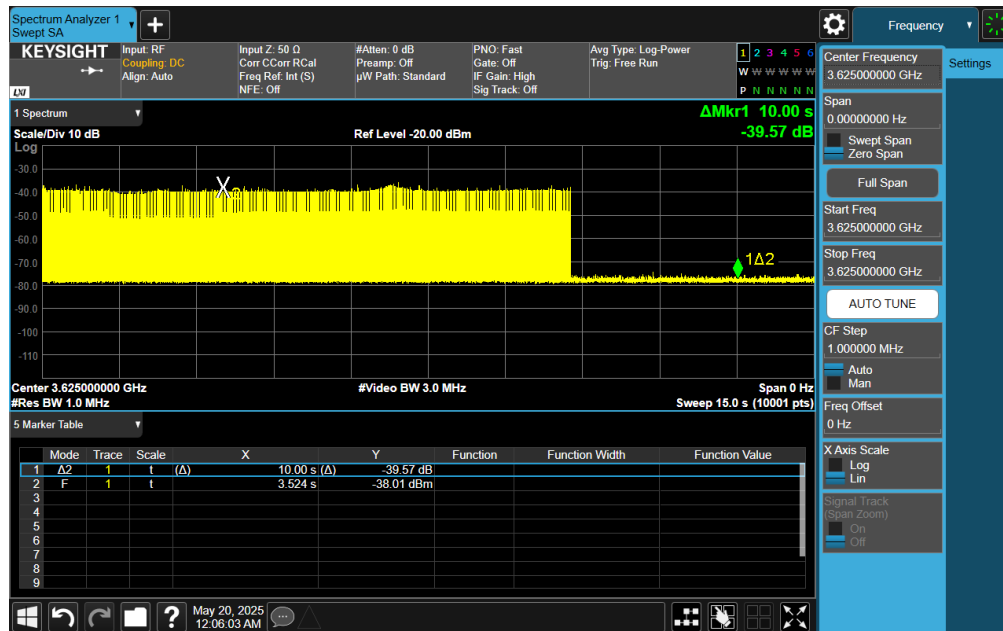
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Run#2 FR1-n48:

- Tx Frequency Set: 3615 – 3635MHz
- MaxEIRP Set: 10dBm/MHz



Plot 7-186. Run#2 End User Device Frequency of Operations



Plot 7-187. Run#2 End User Device Discontinues Operations within 10s

Note:

Marker 1: CBSD sends instructions to discontinue FR1 operations.
 Marker 2: 10 seconds elapsed time from CBSD sending instructions to EUT.

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device FCC ID: BCGA3358** complies with all the End User Device requirements of Part 96 of the FCC Rules.

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