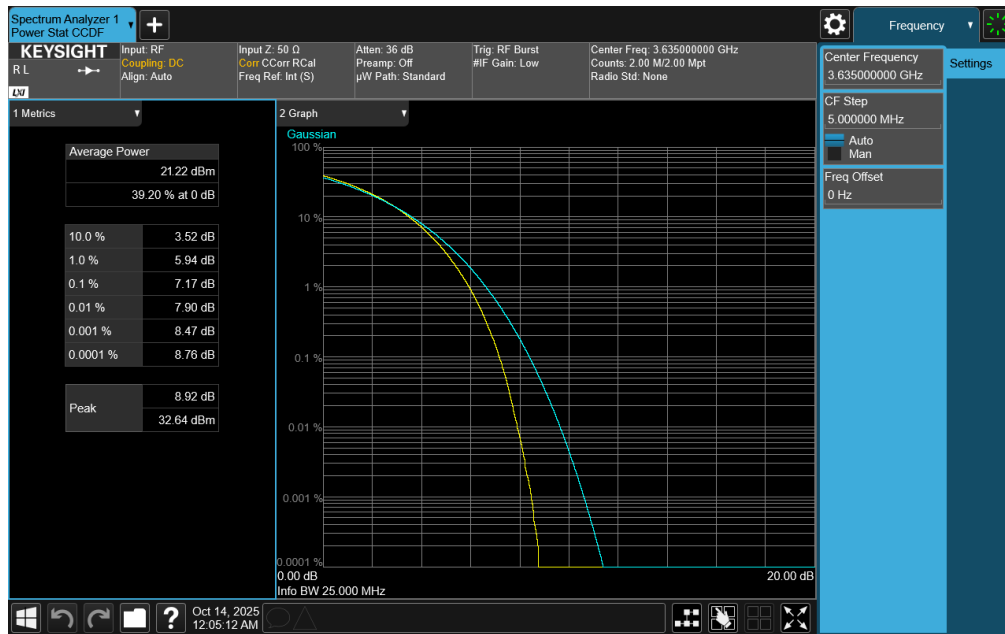
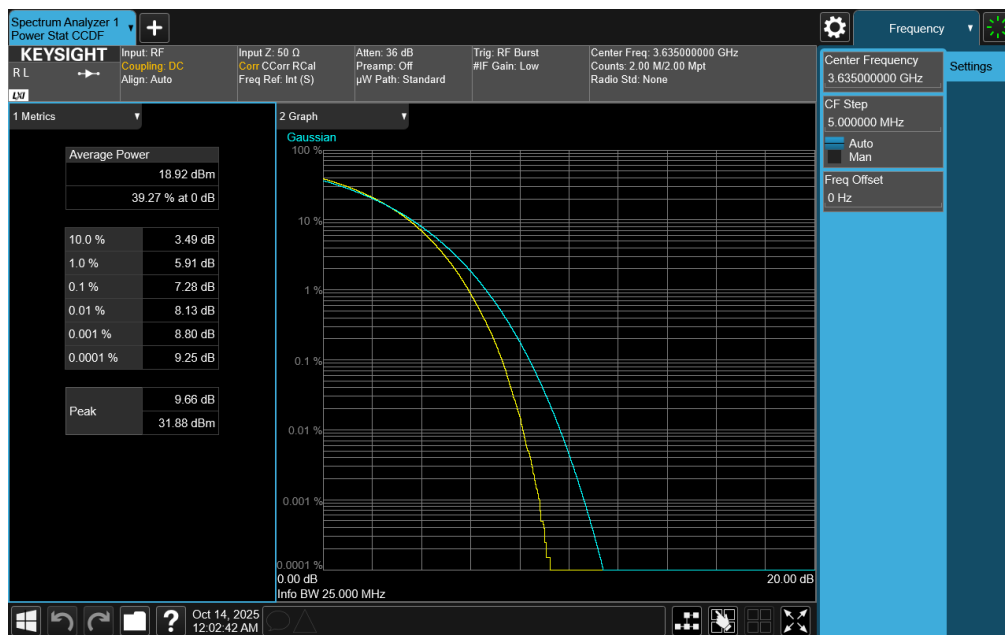




Plot 7-143. PAR Plot (ULCA LTE Band 48 - 20+5MHz 64-QAM – Full RB)

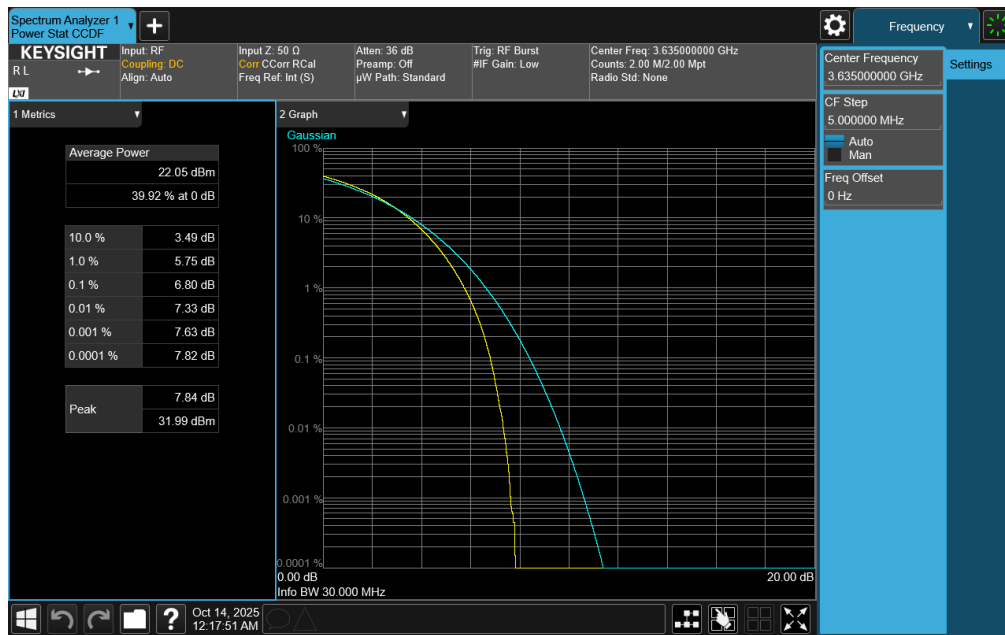
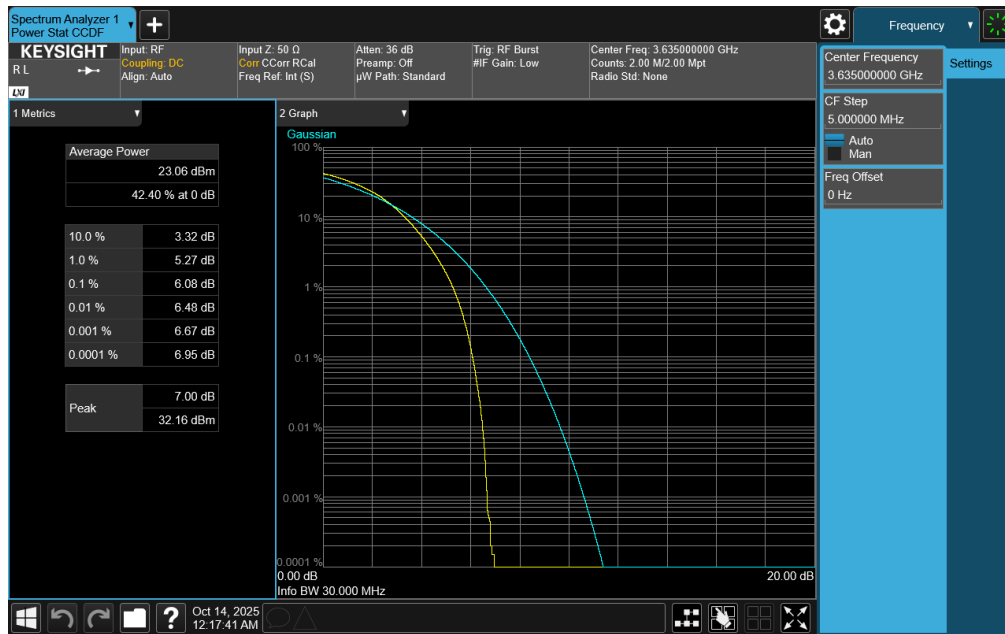


Plot 7-144. PAR Plot (ULCA LTE Band 48 - 20+5MHz 256-QAM – Full RB)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device
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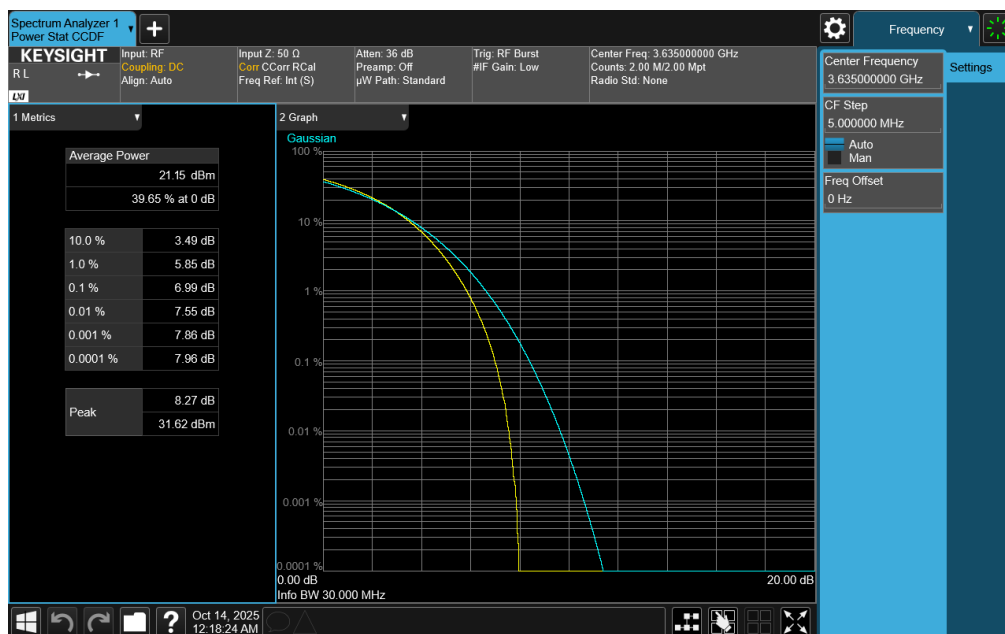
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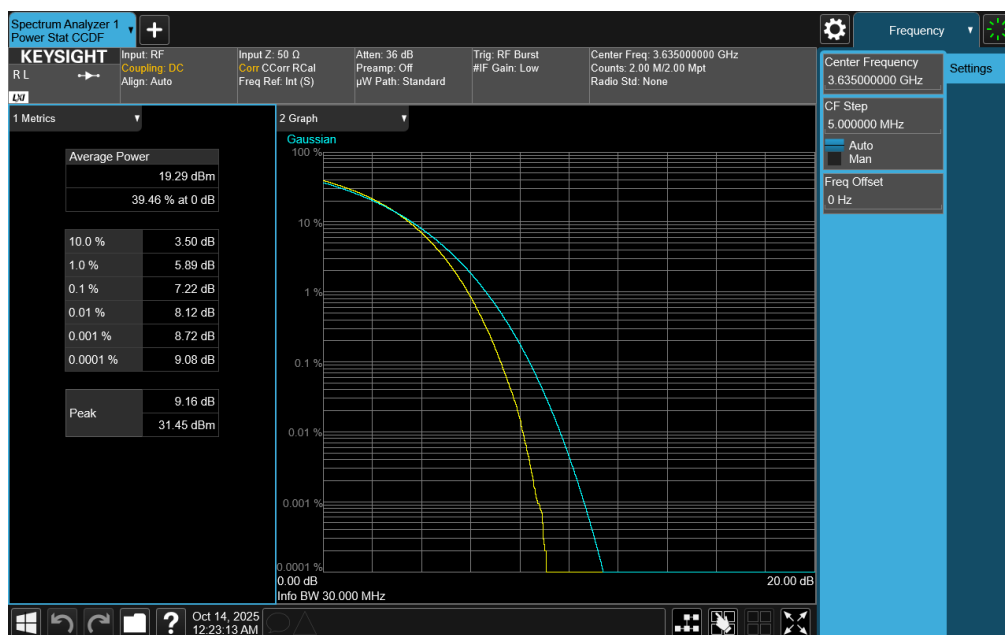
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-147. PAR Plot (ULCA LTE Band 48 - 20+10MHz 64-QAM – Full RB)

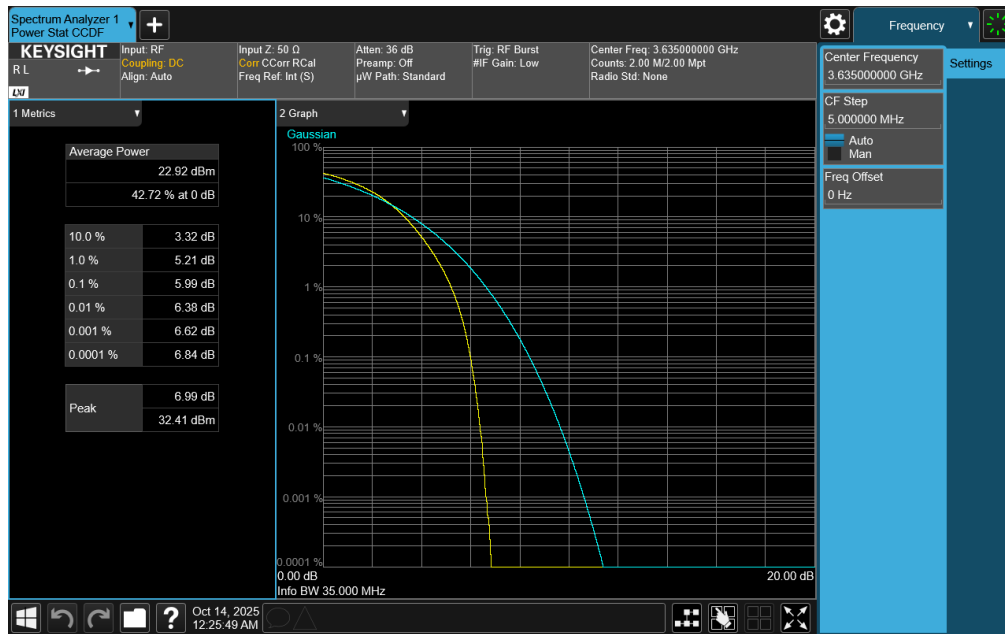


Plot 7-148. PAR Plot (ULCA LTE Band 48 - 20+10MHz 256-QAM – Full RB)

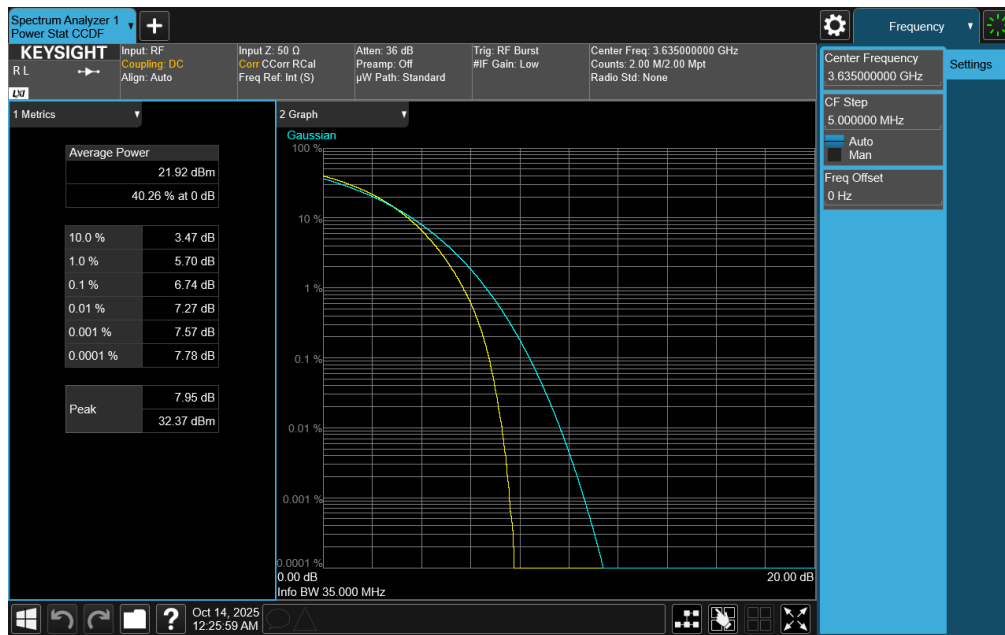
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-149. PAR Plot (ULCA LTE Band 48 - 20+15MHz QPSK – Full RB)

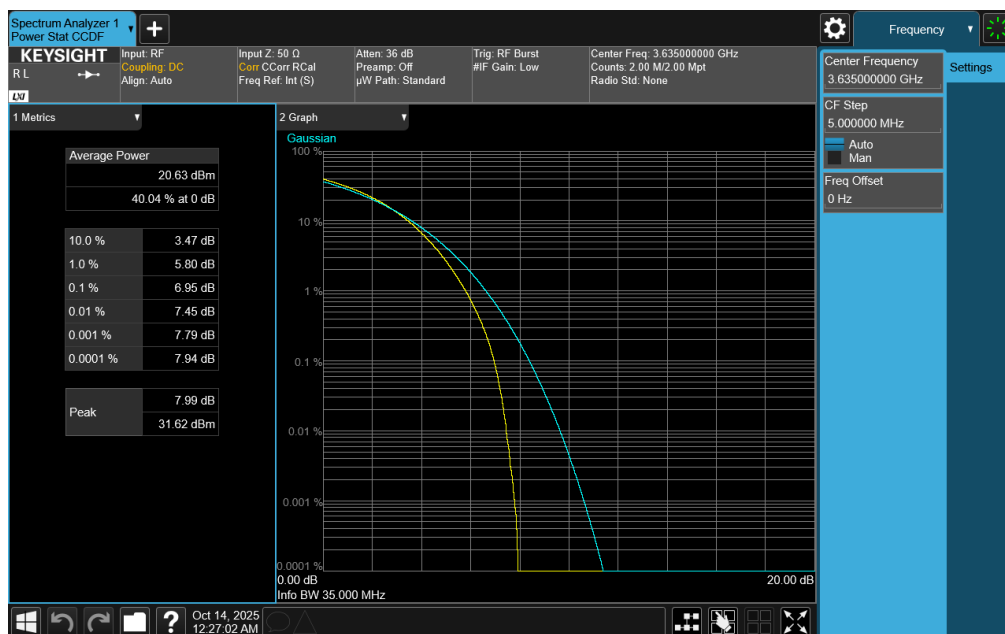


Plot 7-150. PAR Plot (ULCA LTE Band 48 - 20+15MHz 16-QAM – Full RB)

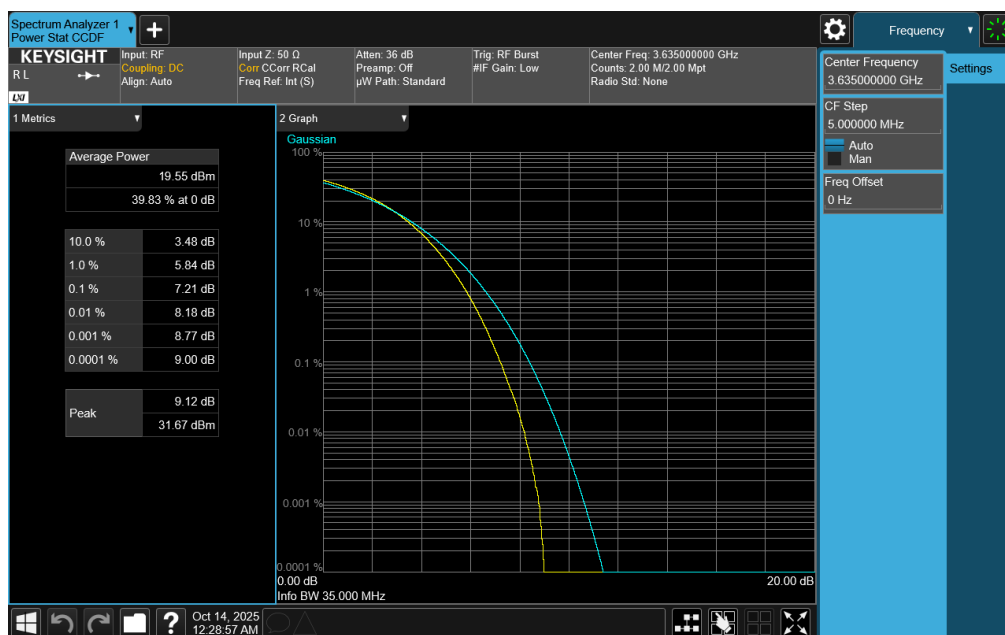
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-151. PAR Plot (ULCA LTE Band 48 - 20+15MHz 64-QAM – Full RB)

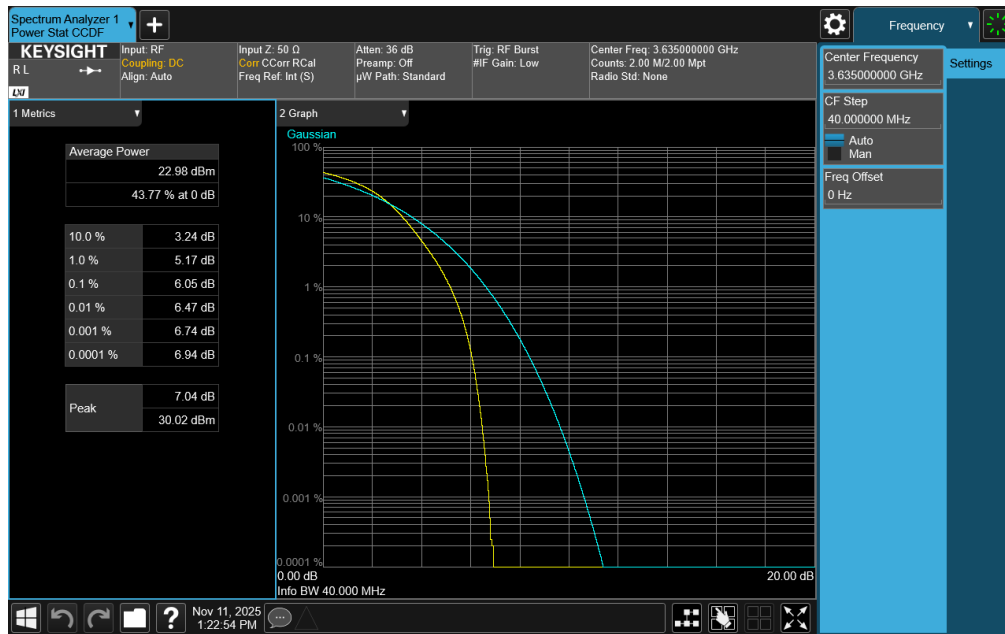


Plot 7-152. PAR Plot (ULCA LTE Band 48 - 20+15MHz 256-QAM – Full RB)

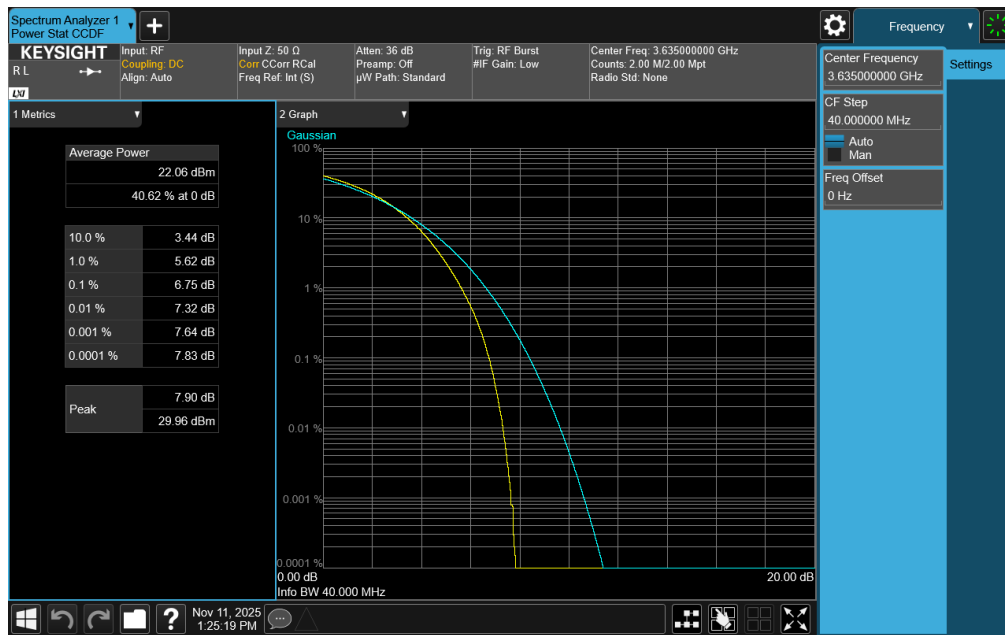
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-153. PAR Plot (ULCA LTE Band 48 - 20+20MHz QPSK – Full RB)

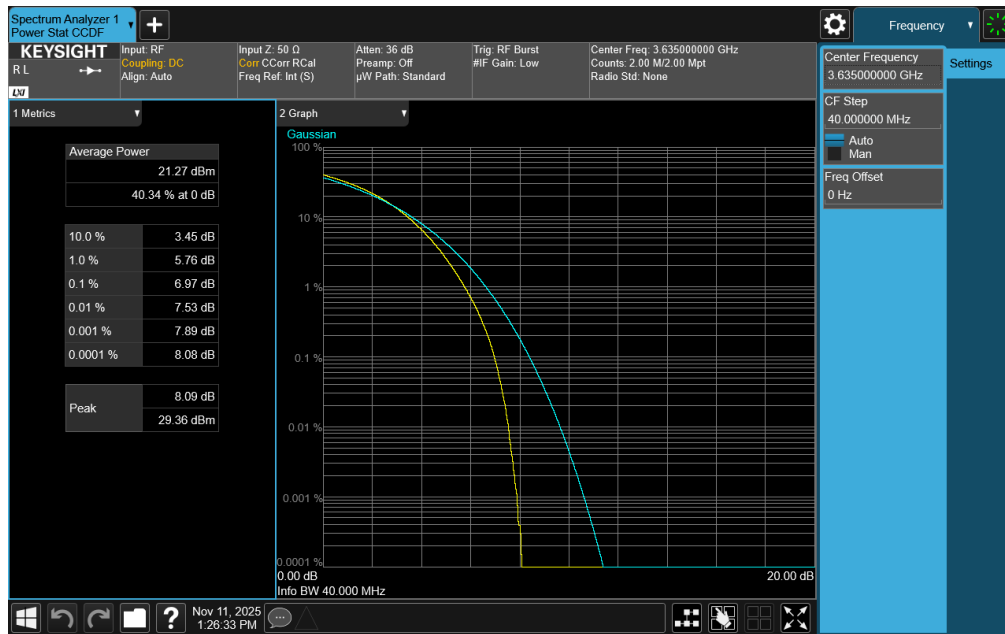


Plot 7-154. PAR Plot (ULCA LTE Band 48 - 20+20MHz 16-QAM – Full RB)

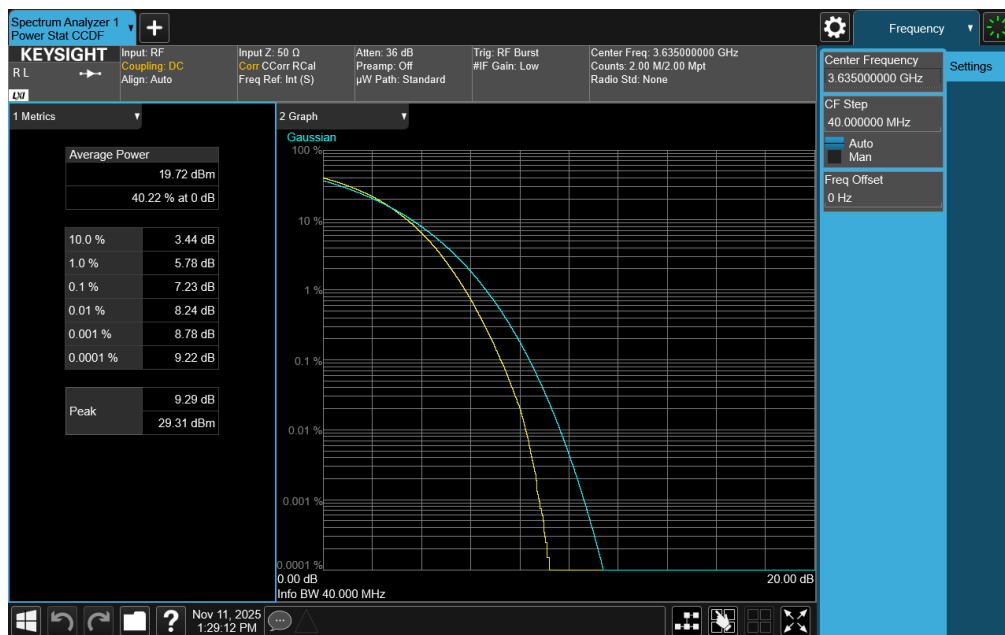
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device
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Plot 7-155. PAR Plot (ULCA LTE Band 48 - 20+20MHz 64-QAM – Full RB)



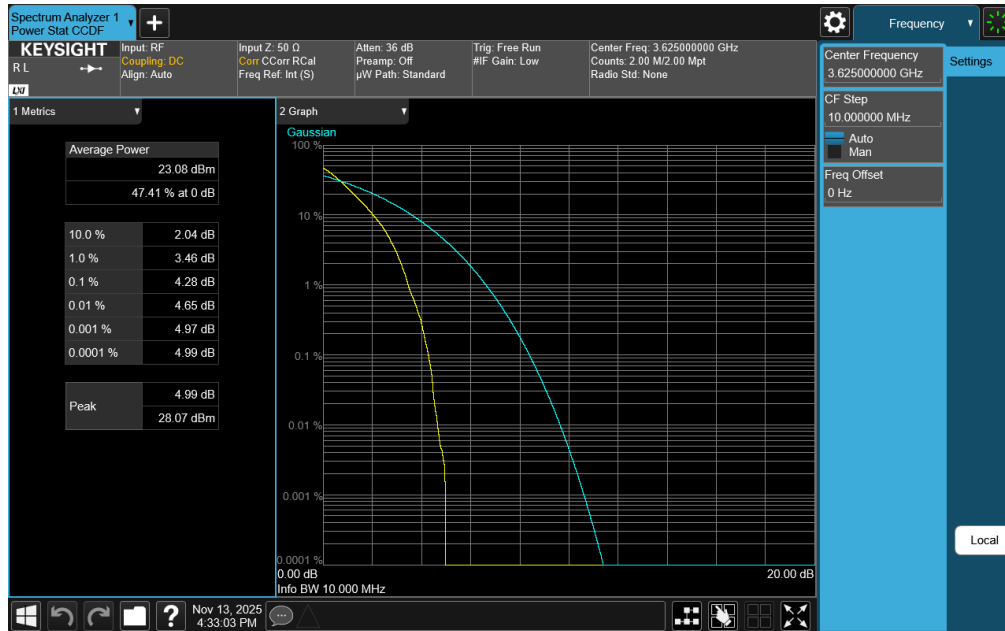
Plot 7-156. PAR Plot (ULCA LTE Band 48 - 20+20MHz 256-QAM – Full RB)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device
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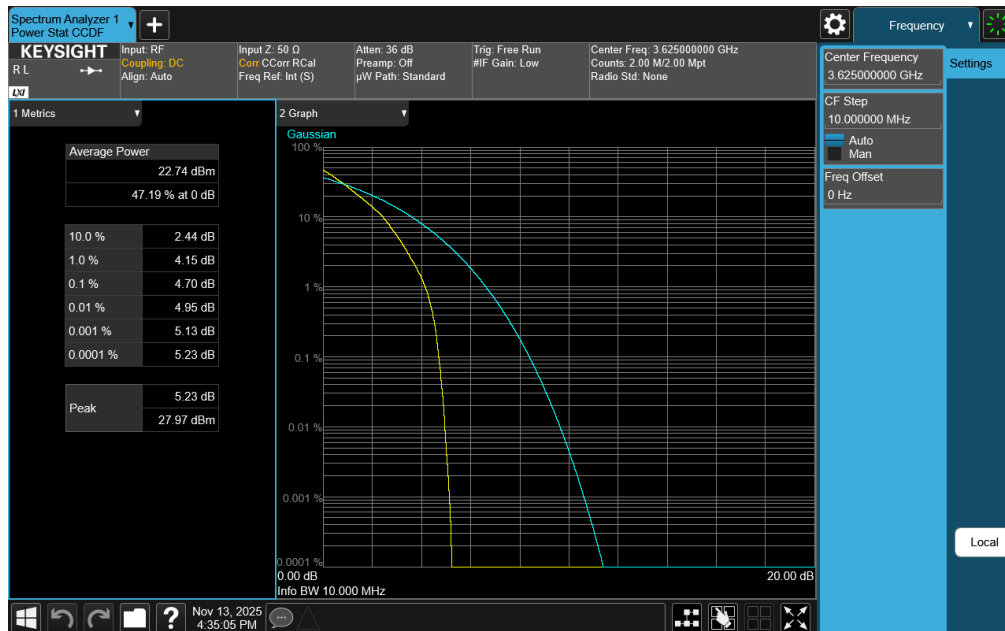
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NR Band n48



Plot 7-157. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM $\pi/2$ BPSK)

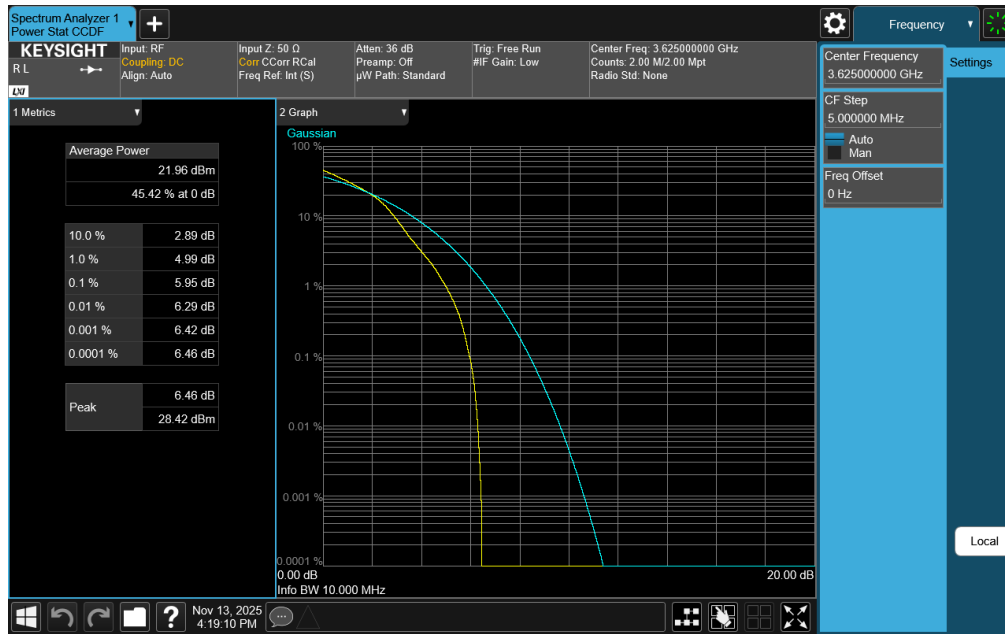


Plot 7-158. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM QPSK)

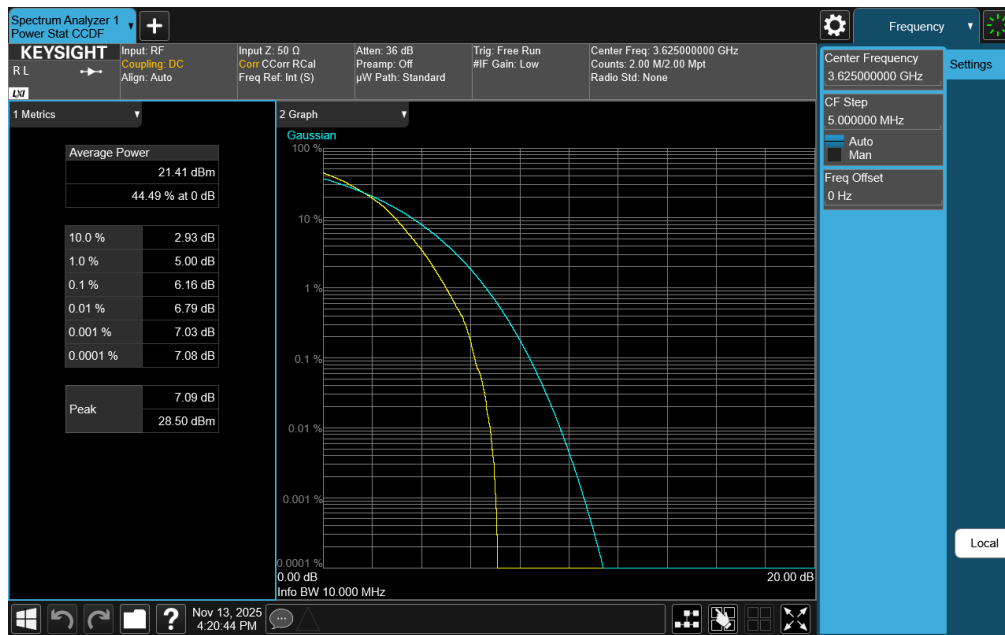
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device
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Plot 7-159. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 16-QAM)

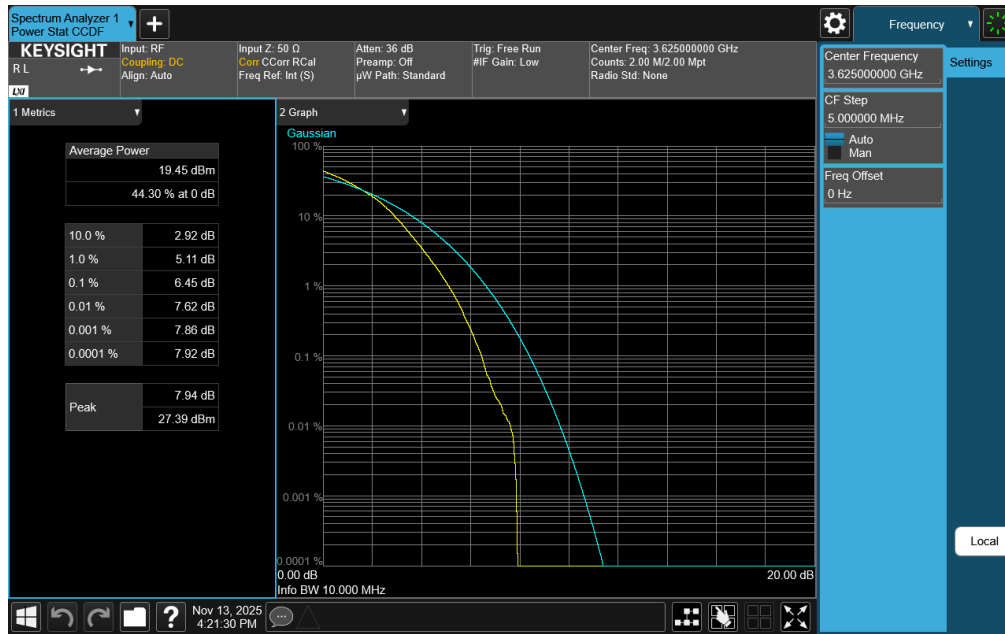


Plot 7-160. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 64-QAM)

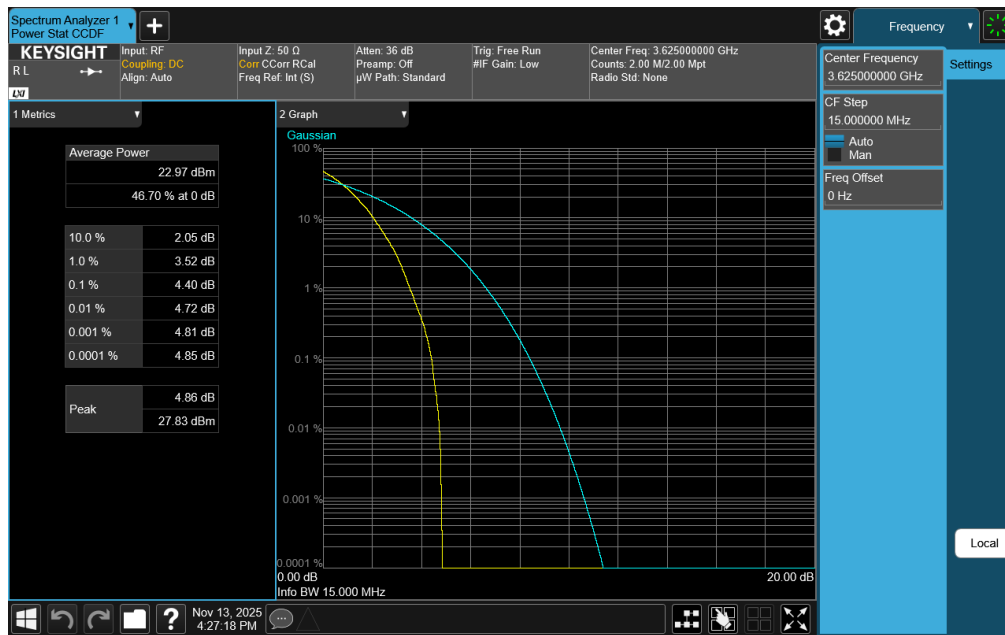
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-161. PAR Plot (NR Band n48 - 10MHz DFT-s-OFDM 256-QAM)

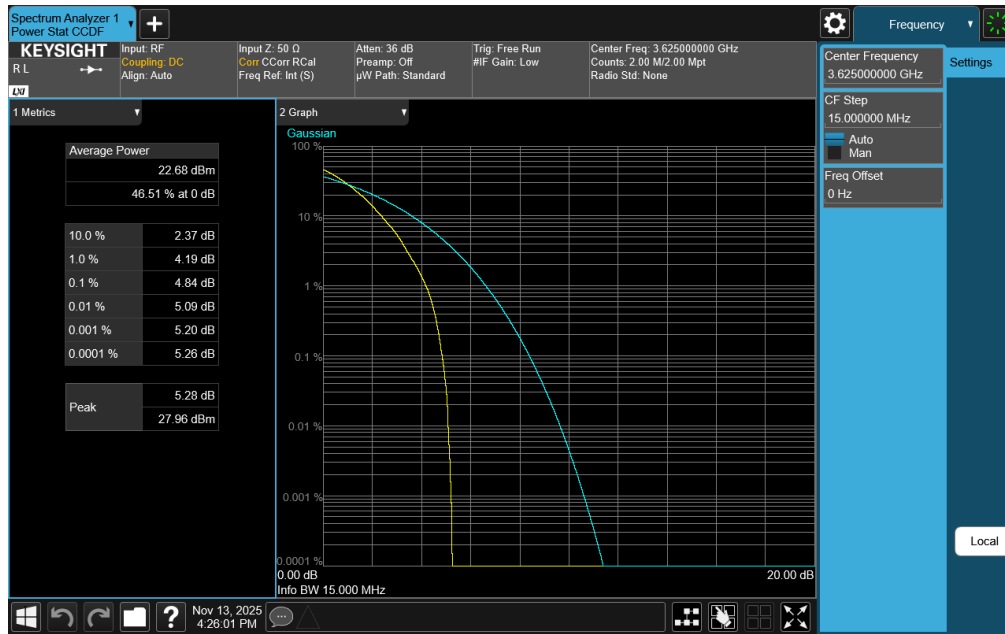


Plot 7-162. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM $\pi/2$ BPSK)

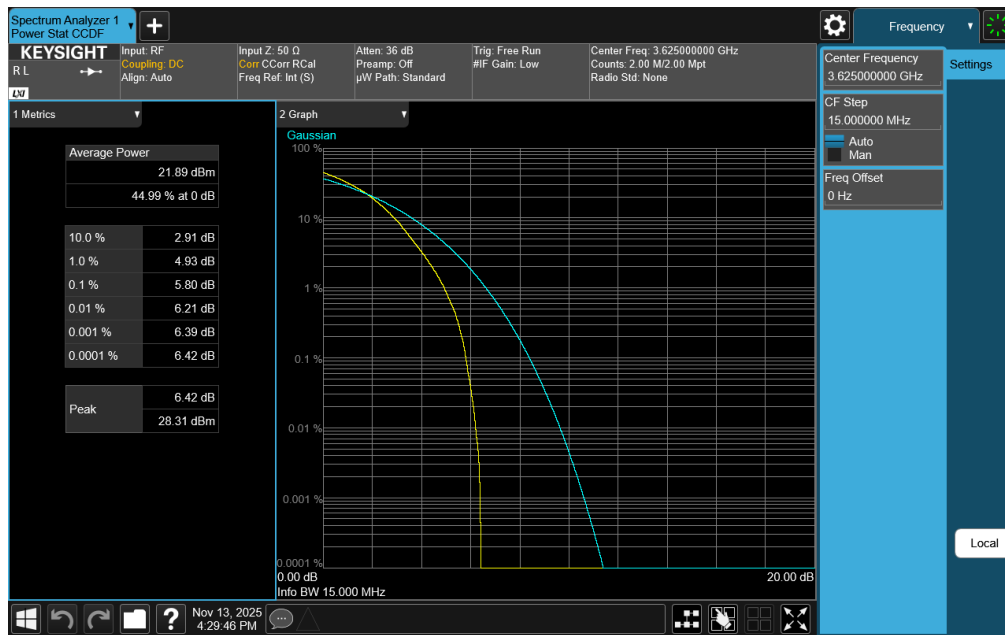
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device
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Plot 7-163. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM QPSK)

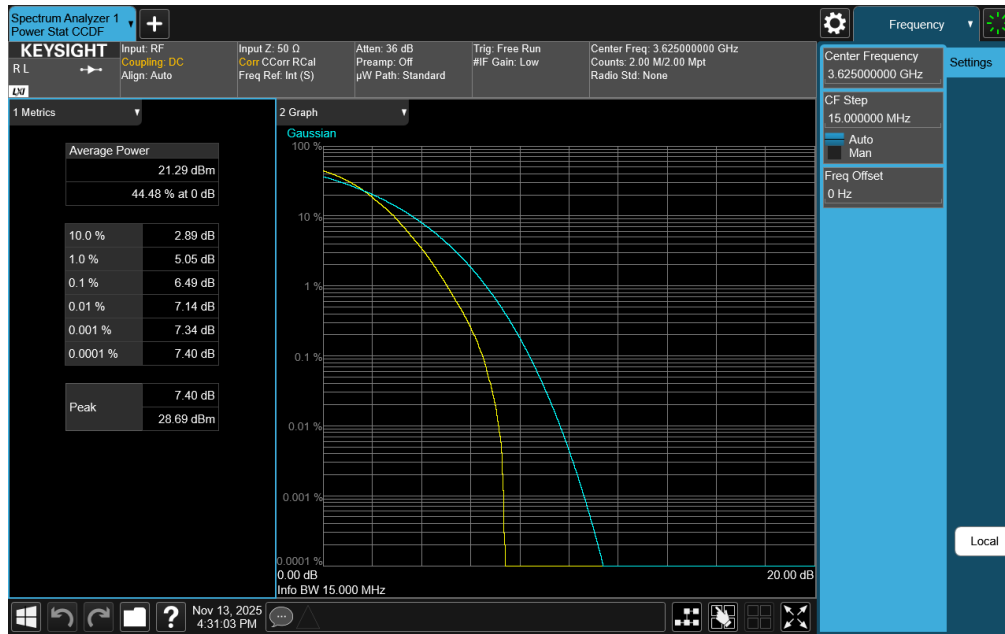


Plot 7-164. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM 16-QAM)

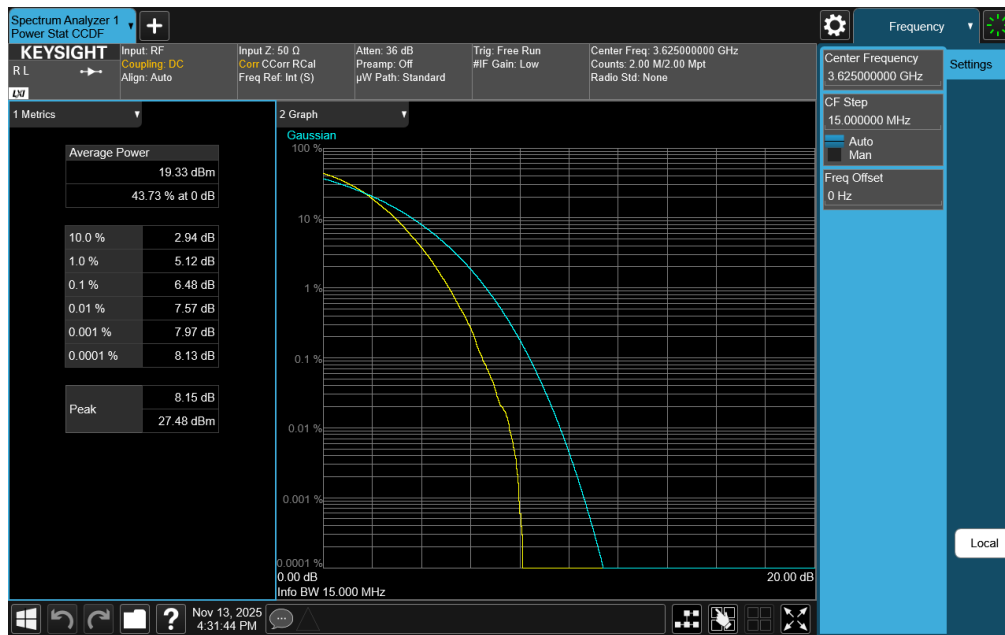
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-165. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM 64-QAM)

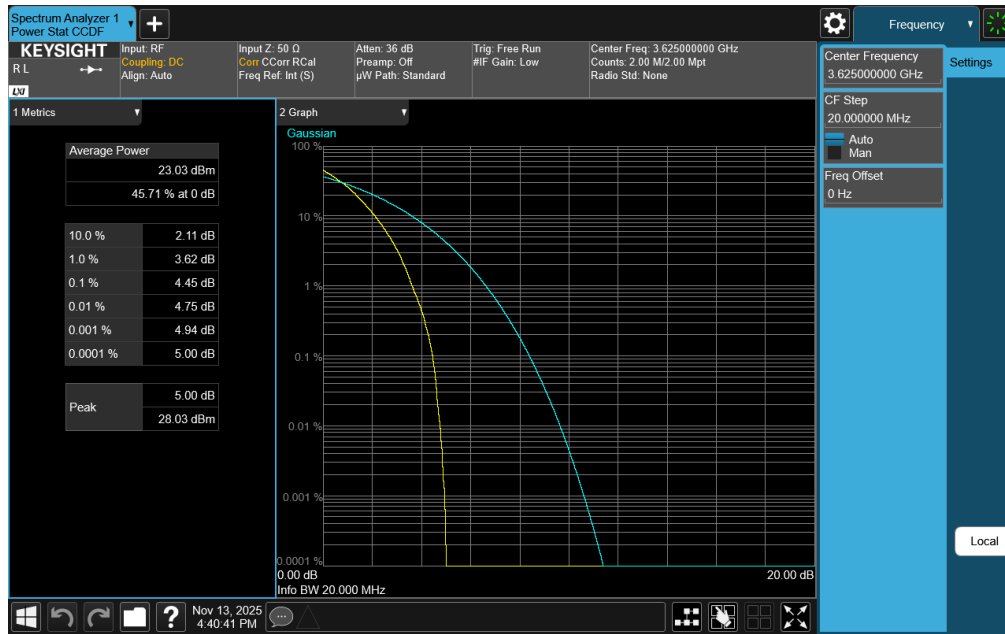


Plot 7-166. PAR Plot (NR Band n48 - 15MHz DFT-s-OFDM 256-QAM)

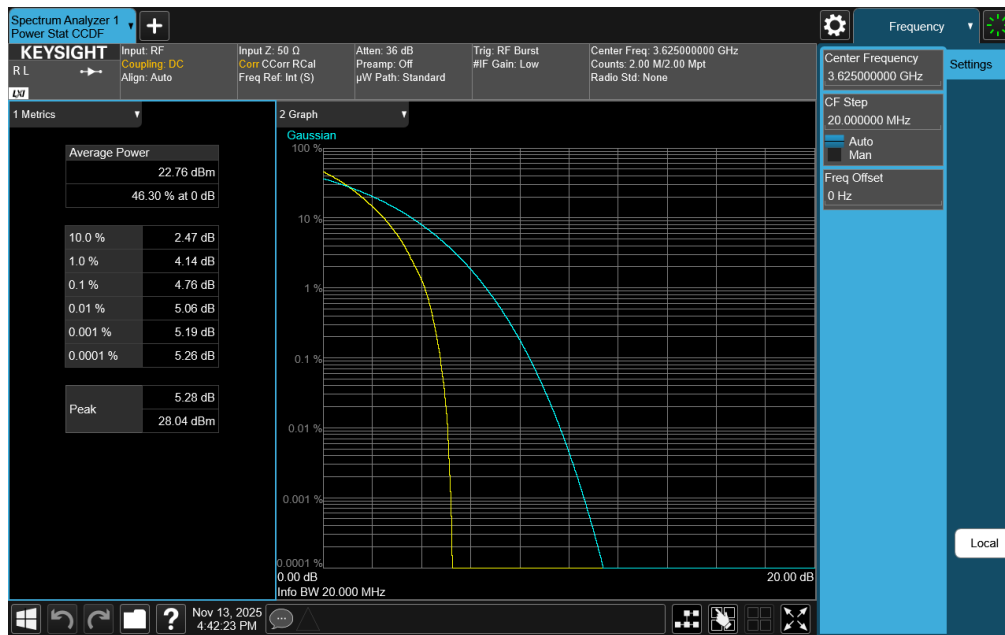
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-167. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM $\pi/2$ BPSK)

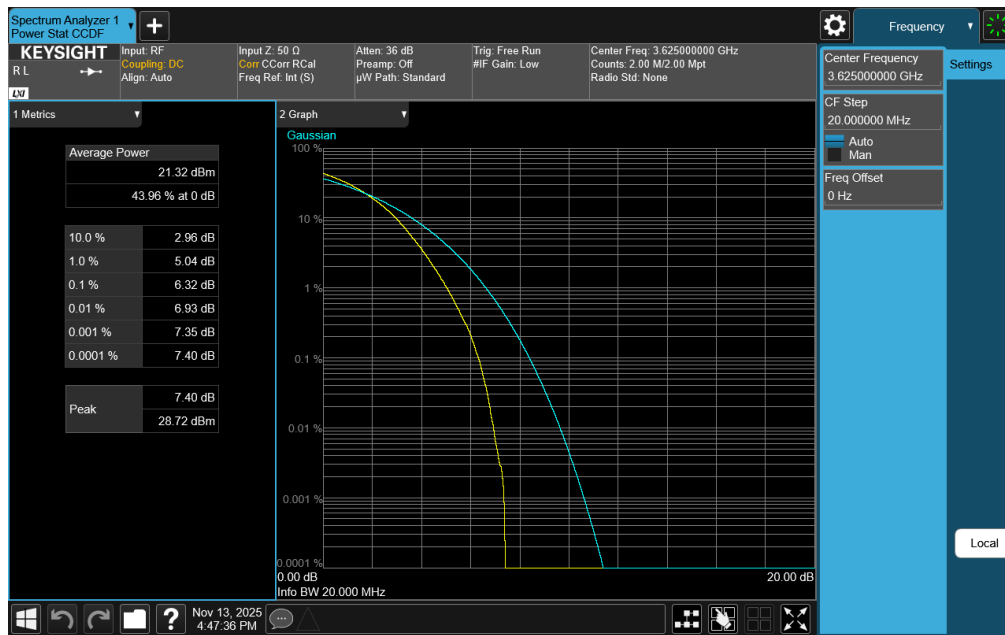
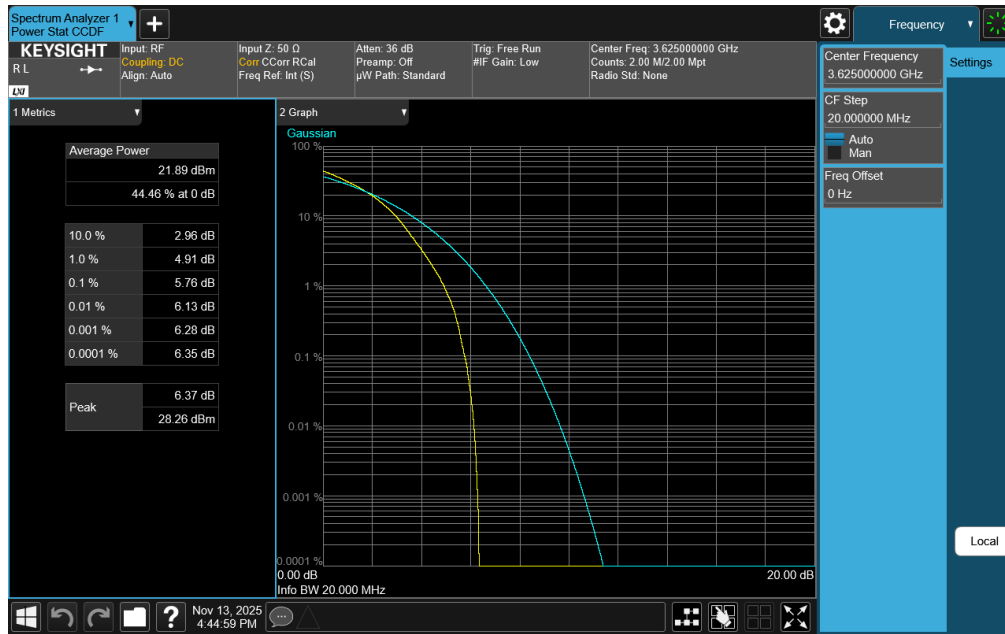


Plot 7-168. PAR Plot (NR Band n48 - 20MHz DFT-s-OFDM QPSK)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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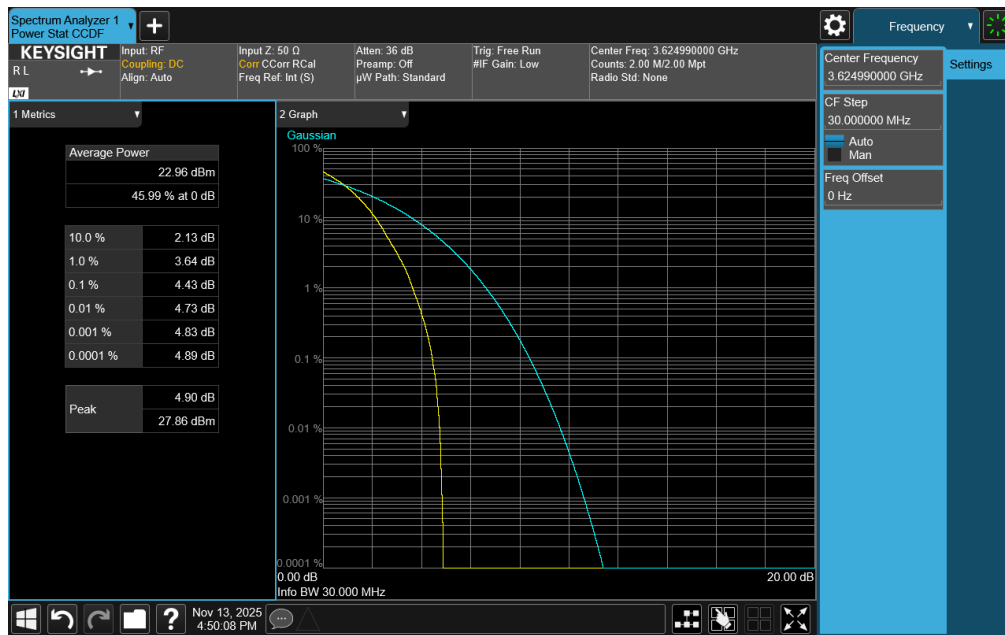
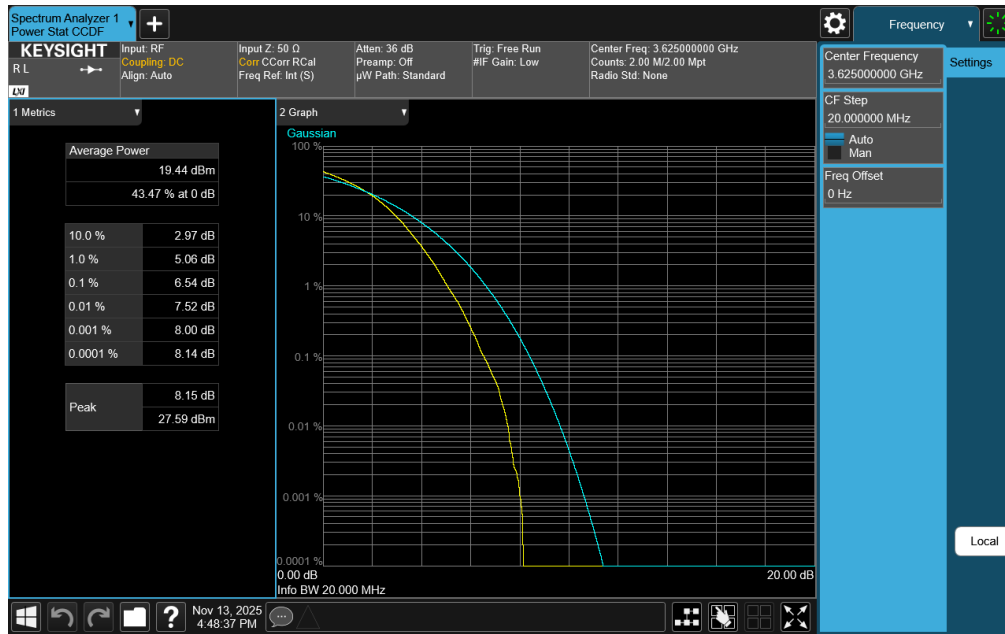
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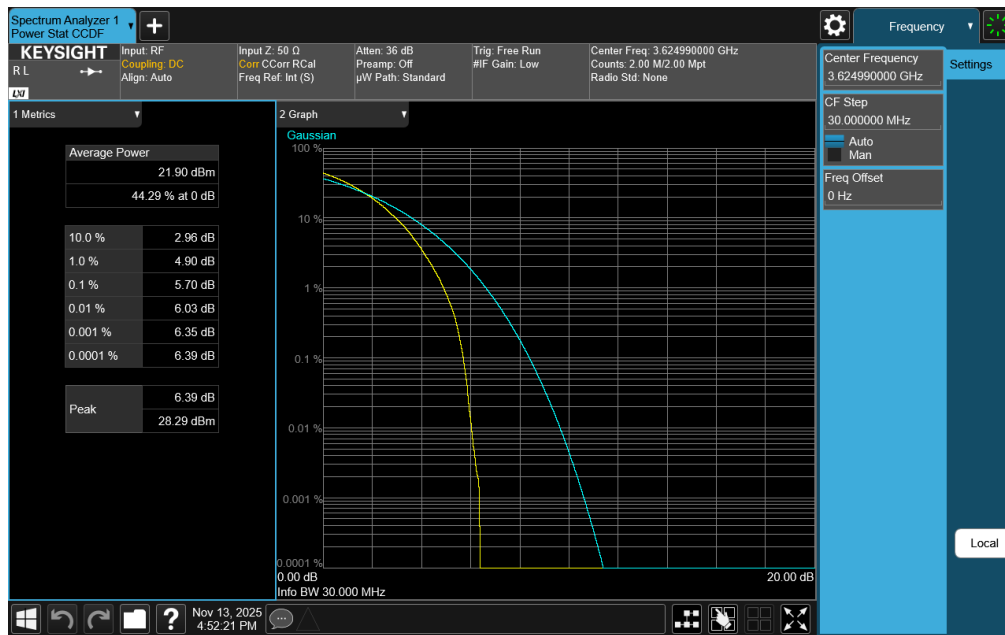
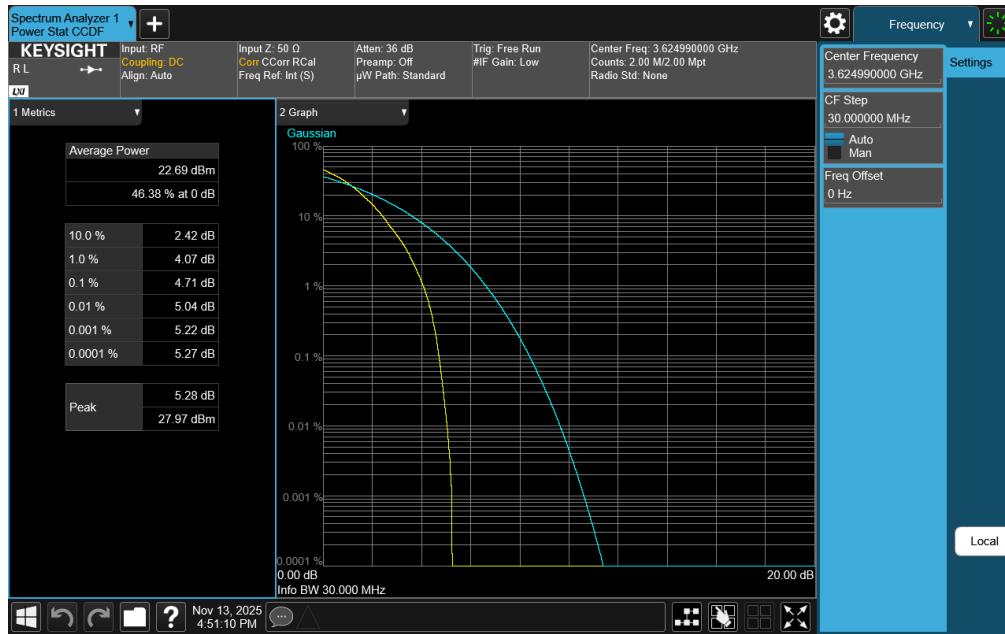
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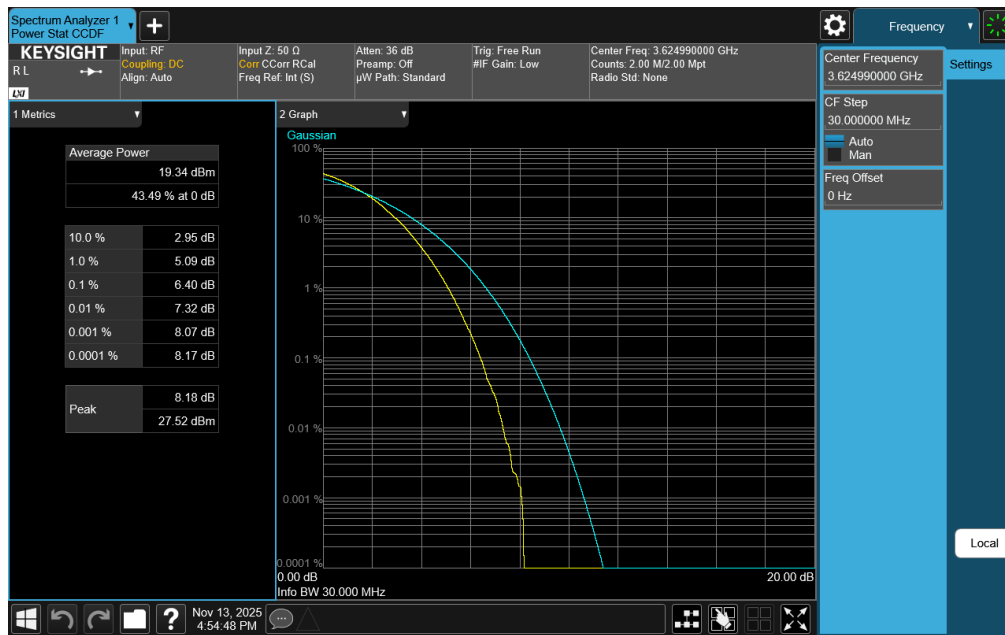
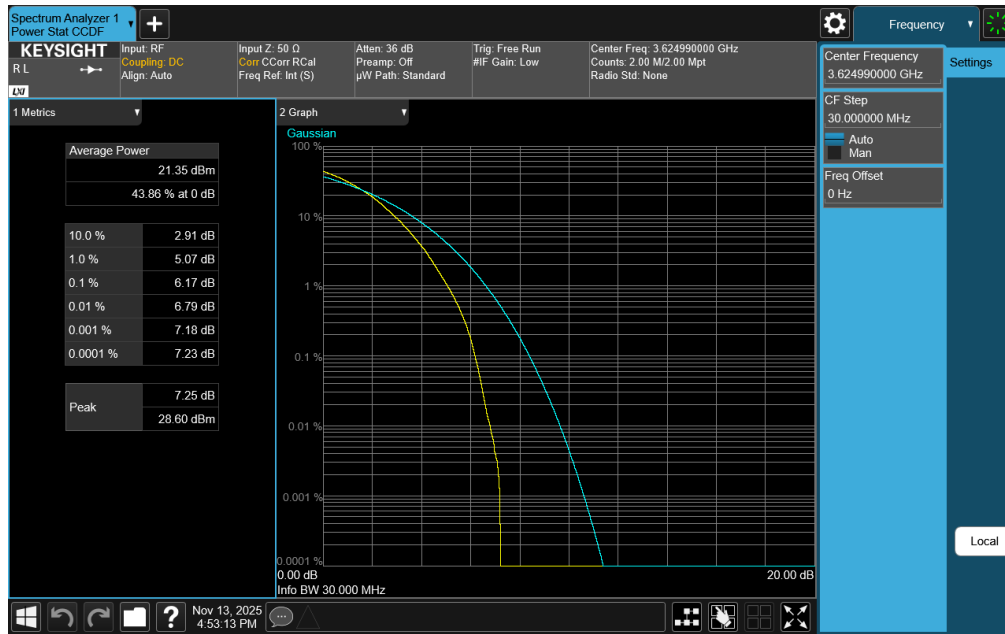
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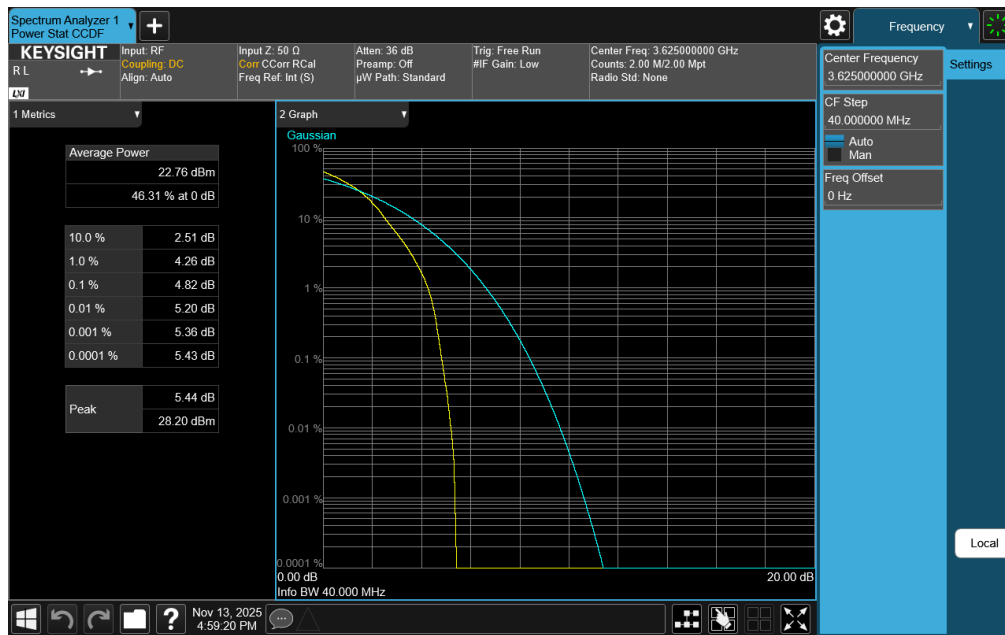
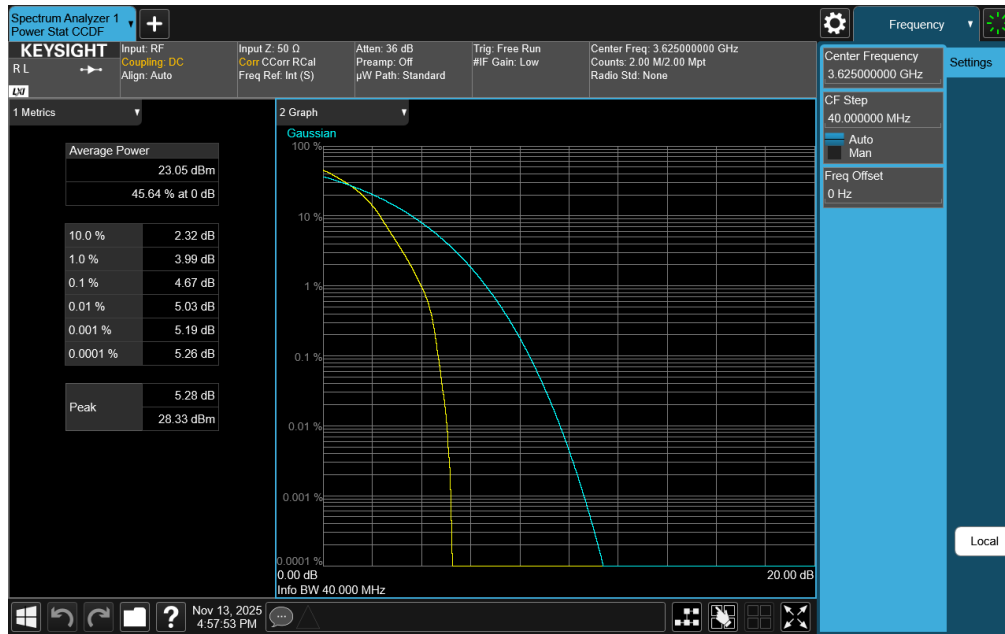
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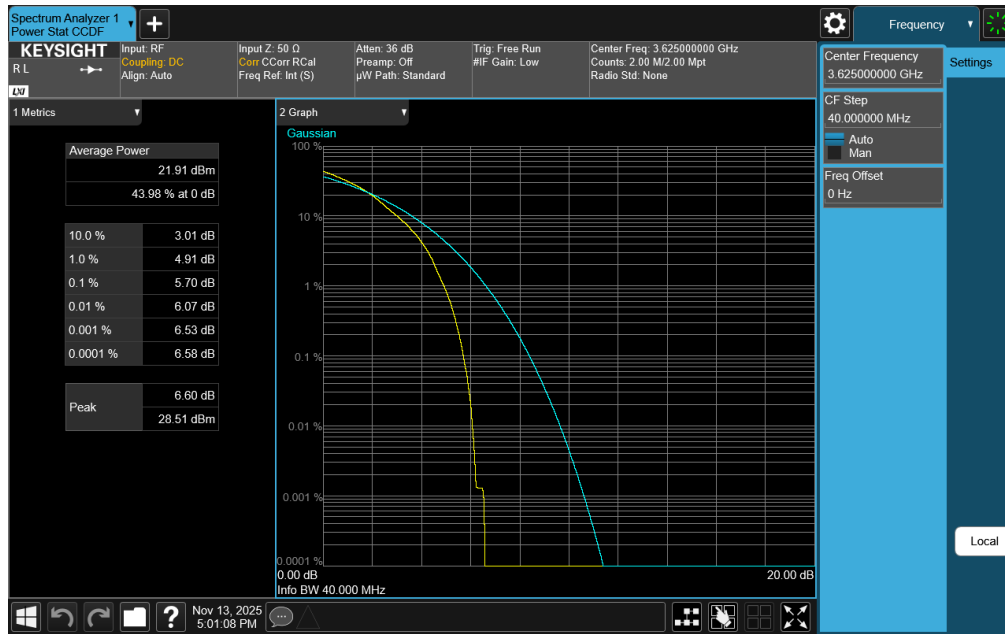
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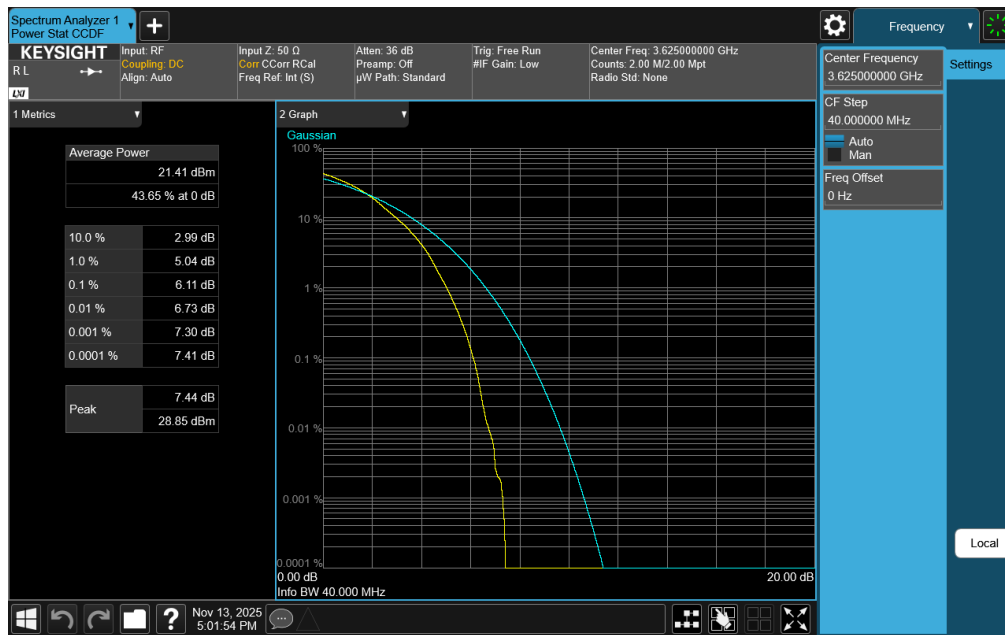
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-179. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 16-QAM)

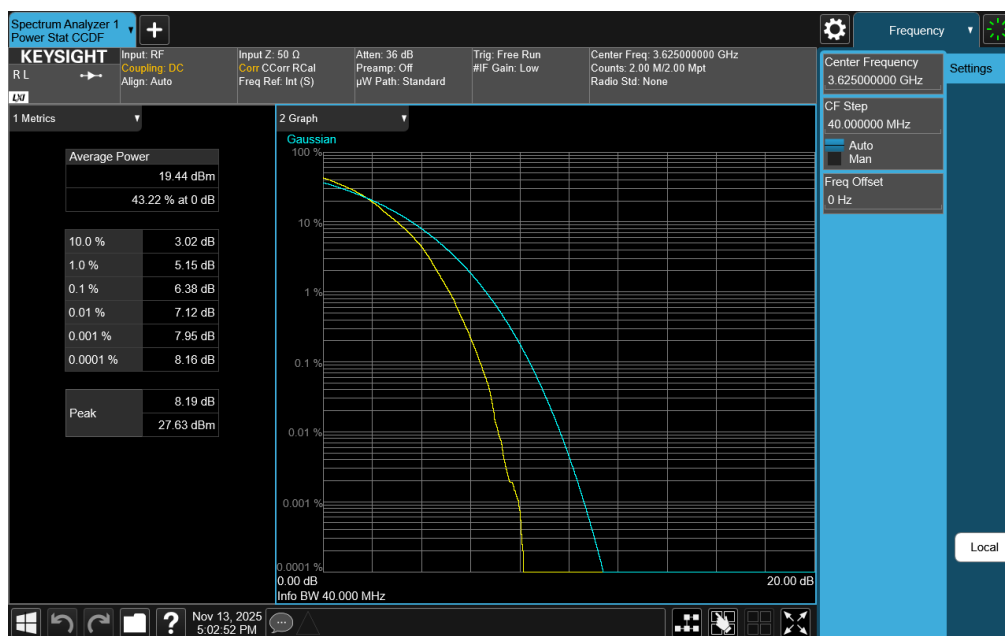


Plot 7-180. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 64-QAM)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-181. PAR Plot (NR Band n48 - 40MHz DFT-s-OFDM 256-QAM)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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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

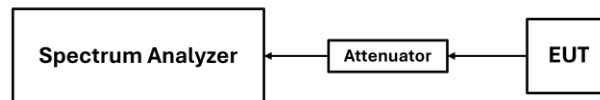


Figure 7-10. FR1 Test Instrument & Measurement Setup

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Test Notes

1. The worst case emissions are reported with the modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. 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.
4. 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).
5. Uplink carrier aggregation for LTE B48 is only supported in this EUT while operating in Power Class 3.
6. 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.
7. 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 3a – 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	1.30	1 / 24	20.90	22.20	0.166	23.00	-0.80
		3625.0	1.30	1 / 0	20.71	22.01	0.159	23.00	-0.99
		3697.5	1.30	1 / 0	20.68	21.98	0.158	23.00	-1.02
	16-QAM	3552.5	1.30	1 / 24	19.75	21.05	0.127	23.00	-1.95
	64-QAM	3552.5	1.30	1 / 12	18.38	19.68	0.093	23.00	-3.32
	256-QAM	3552.5	1.30	25 / 0	17.03	18.33	0.068	23.00	-4.67
10 MHz	QPSK	3555.0	1.30	1 / 49	21.04	22.34	0.171	23.00	-0.66
		3625.0	1.30	1 / 49	20.97	22.27	0.169	23.00	-0.73
		3695.0	1.30	1 / 0	20.82	22.12	0.163	23.00	-0.88
	16-QAM	3555.0	1.30	1 / 25	19.87	21.17	0.131	23.00	-1.83
	64-QAM	3555.0	1.30	1 / 25	18.60	19.90	0.098	23.00	-3.10
	256-QAM	3555.0	1.30	50 / 0	17.12	18.42	0.070	23.00	-4.58
15 MHz	QPSK	3557.5	1.30	1 / 37	21.03	22.33	0.171	23.00	-0.67
		3625.0	1.30	1 / 0	20.91	22.21	0.166	23.00	-0.79
		3692.5	1.30	1 / 0	20.76	22.06	0.161	23.00	-0.94
	16-QAM	3557.5	1.30	1 / 74	19.95	21.25	0.133	23.00	-1.75
	64-QAM	3557.5	1.30	1 / 37	18.72	20.02	0.100	23.00	-2.98
	256-QAM	3557.5	1.30	75 / 0	17.40	18.70	0.074	23.00	-4.30
20 MHz	QPSK	3560.0	1.30	1 / 99	20.98	22.28	0.169	23.00	-0.72
		3625.0	1.30	1 / 0	20.86	22.16	0.164	23.00	-0.84
		3690.0	1.30	1 / 0	20.71	22.01	0.159	23.00	-0.99
	16-QAM	3560.0	1.30	1 / 99	19.75	21.05	0.127	23.00	-1.95
	64-QAM	3560.0	1.30	1 / 99	18.42	19.72	0.094	23.00	-3.28
	256-QAM	3560.0	1.30	100 / 0	16.99	18.29	0.067	23.00	-4.71

Table 7-1. Antenna 3a EIRP Data (LTE Band 48)

FCC ID: BCGA3462		PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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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	1.30	24 / 0	20.99	22.29	0.169	23.00	-0.71
		3625.0	1.30	24 / 0	20.70	22.00	0.158	23.00	-1.00
		3695.0	1.30	24 / 0	20.65	21.95	0.157	23.00	-1.05
	QPSK	3555.0	1.30	1 / 22	20.81	22.11	0.163	23.00	-0.89
		3625.0	1.30	1 / 1	20.62	21.92	0.156	23.00	-1.08
		3695.0	1.30	1 / 1	20.59	21.89	0.155	23.00	-1.11
	16-QAM	3555.0	1.30	1 / 22	19.64	20.94	0.124	23.00	-2.06
	64-QAM	3555.0	1.30	24 / 0	18.80	20.10	0.102	23.00	-2.90
	256-QAM	3555.0	1.30	24 / 0	16.92	18.22	0.066	23.00	-4.78
15 MHz	π/2 BPSK	3557.5	1.30	36 / 0	20.90	22.20	0.166	23.00	-0.80
		3625.0	1.30	36 / 0	20.73	22.03	0.160	23.00	-0.97
		3692.5	1.30	36 / 0	20.71	22.01	0.159	23.00	-0.99
	QPSK	3557.5	1.30	1 / 36	20.95	22.25	0.168	23.00	-0.75
		3625.0	1.30	1 / 36	20.88	22.18	0.165	23.00	-0.82
		3692.5	1.30	1 / 1	20.73	22.03	0.160	23.00	-0.97
	16-QAM	3557.5	1.30	1 / 18	19.76	21.06	0.128	23.00	-1.94
	64-QAM	3557.5	1.30	36 / 0	19.10	20.40	0.110	23.00	-2.60
	256-QAM	3557.5	1.30	36 / 0	17.01	18.31	0.068	23.00	-4.69
20 MHz	π/2 BPSK	3560.0	1.30	50 / 0	20.97	22.27	0.169	23.00	-0.73
		3625.0	1.30	50 / 0	20.71	22.01	0.159	23.00	-0.99
		3690.0	1.30	50 / 0	20.67	21.97	0.157	23.00	-1.03
	QPSK	3560.0	1.30	1 / 25	20.94	22.24	0.167	23.00	-0.76
		3625.0	1.30	1 / 1	20.82	22.12	0.163	23.00	-0.88
		3690.0	1.30	1 / 1	20.67	21.97	0.157	23.00	-1.03
	16-QAM	3560.0	1.30	1 / 49	19.84	21.14	0.130	23.00	-1.86
	64-QAM	3560.0	1.30	50 / 0	19.09	20.39	0.109	23.00	-2.61
	256-QAM	3560.0	1.30	50 / 0	17.29	18.59	0.072	23.00	-4.41
30 MHz	π/2 BPSK	3565.0	1.30	75 / 0	20.98	22.28	0.169	23.00	-0.72
		3625.0	1.30	75 / 0	20.84	22.14	0.164	23.00	-0.86
		3685.0	1.30	75 / 0	20.66	21.96	0.157	23.00	-1.04
	QPSK	3565.0	1.30	1 / 76	20.89	22.19	0.166	23.00	-0.81
		3625.0	1.30	1 / 1	20.77	22.07	0.161	23.00	-0.93
		3685.0	1.30	1 / 1	20.62	21.92	0.156	23.00	-1.08
	16-QAM	3565.0	1.30	1 / 76	19.64	20.94	0.124	23.00	-2.06
	64-QAM	3565.0	1.30	75 / 0	18.82	20.12	0.103	23.00	-2.88
	256-QAM	3565.0	1.30	75 / 0	16.88	18.18	0.066	23.00	-4.82
40 MHz	π/2 BPSK	3570.0	1.30	100 / 0	20.98	22.28	0.169	23.00	-0.72
		3625.0	1.30	100 / 0	20.73	22.03	0.160	23.00	-0.97
		3680.0	1.30	100 / 0	20.62	21.92	0.156	23.00	-1.08
	QPSK	3570.0	1.30	1 / 50	20.96	22.26	0.168	23.00	-0.74
		3625.0	1.30	1 / 1	20.61	21.91	0.155	23.00	-1.09
		3680.0	1.30	1 / 1	20.59	21.89	0.155	23.00	-1.11
	16-QAM	3570.0	1.30	1 / 104	19.89	21.19	0.132	23.00	-1.81
	64-QAM	3625.0	1.30	100 / 0	18.88	20.18	0.104	23.00	-2.82
	256-QAM	3570.0	1.30	100 / 0	16.90	18.20	0.066	23.00	-4.80

Table 7-2. Antenna 3a EIRP Data (NR Band n48)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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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	Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	Frequency [MHz]							UL # RB	UL RB Offset		
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560.0	1	99	QPSK	55457	3571.7	1	0	20.94	1.30	22.24	0.167	23.00	-0.76		
				55990	3625.0	1	99		56107	3636.7	1	0	20.93	1.30	22.23	0.167	23.00	-0.77		
				56640	3690.0	1	0		56523	3678.3	1	24	20.74	1.30	22.04	0.160	23.00	-0.96		
			QPSK	55340	3560	100	0	QPSK	55457	3571.7	100	0	20.66	1.30	21.96	0.157	23.00	-1.04		
				16-QAM	55340	3560	100		0	16-QAM	55457	3571.7	100	0	20.41	1.30	21.71	0.148	23.00	-1.29
				64-QAM	55340	3560	100		0	64-QAM	55457	3571.7	100	0	20.16	1.30	21.46	0.140	23.00	-1.54
Max	LTE B48	20MHz + 10MHz	256-QAM	55340	3560	100	0	256-QAM	55457	3571.7	100	0	19.87	1.30	21.17	0.131	23.00	-1.83		
				55990	3625.0	1	99		55484	3574.4	1	0	20.30	1.30	21.60	0.145	23.00	-1.40		
				55990	3625.0	1	99		56134	3639.4	1	0	20.93	1.30	22.23	0.167	23.00	-0.77		
			QPSK	55340	3560.0	1	99	QPSK	55498	3575.6	1	49	20.19	1.30	21.49	0.141	23.00	-1.51		
				QPSK	55990	3625	100		0	QPSK	56134	3639.4	100	0	20.68	1.30	21.98	0.158	23.00	-1.02
				16-QAM	55990	3625	100		0	16-QAM	56134	3639.4	100	0	20.40	1.30	21.70	0.148	23.00	-1.30
Max	LTE B48	20MHz + 15MHz	64-QAM	55990	3625	100	0	64-QAM	56134	3639.4	100	0	20.13	1.30	21.43	0.139	23.00	-1.57		
				256-QAM	55990	3625	100		0	256-QAM	56134	3639.4	100	0	19.88	1.30	21.18	0.131	23.00	-1.82
				55340	3560.0	1	99		55511	3577.1	1	0	20.39	1.30	21.69	0.148	23.00	-1.31		
			QPSK	55990	3625.0	1	99	QPSK	56161	3642.1	1	0	20.99	1.30	22.29	0.169	23.00	-0.71		
				56640	3690.0	1	0		56469	3672.9	1	74	20.35	1.30	21.65	0.146	23.00	-1.35		
				QPSK	55990	3625	100		0	QPSK	56161	3642.1	100	0	20.70	1.30	22.00	0.158	23.00	-1.00
Max	LTE B48	20MHz + 20MHz	16-QAM	55990	3625	100	0	16-QAM	56161	3642.1	100	0	20.46	1.30	21.76	0.150	23.00	-1.24		
				64-QAM	55990	3625	100		0	64-QAM	56161	3642.1	100	0	20.17	1.30	21.47	0.140	23.00	-1.53
				256-QAM	55990	3625	100		0	256-QAM	56161	3642.1	100	0	19.92	1.30	21.22	0.132	23.00	-1.78
			QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	20.88	1.30	22.18	0.165	23.00	-0.82		
				55990	3625.0	1	99		56188	3644.8	1	0	20.93	1.30	22.23	0.167	23.00	-0.77		
				56640	3690.0	1	0		56442	3670.2	1	99	20.32	1.30	21.62	0.145	23.00	-1.38		
Max	LTE B48	20MHz + 20MHz	QPSK	55990	3625	100	0	QPSK	56188	3644.8	100	0	20.69	1.30	21.99	0.158	23.00	-1.01		
				16-QAM	55990	3625	100		0	16-QAM	56188	3644.8	100	0	20.39	1.30	21.69	0.148	23.00	-1.31
				64-QAM	55990	3625	100		0	64-QAM	56188	3644.8	100	0	20.18	1.30	21.48	0.141	23.00	-1.52
			256-QAM	55990	3625	100	0	256-QAM	56188	3644.8	100	0	19.92	1.30	21.22	0.132	23.00	-1.78		

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

FCC ID: BCGA3462		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.6.2 Antenna 2 – 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	3.30	1 / 0	19.08	22.38	0.173	23.00	-0.62
		3625.0	3.30	1 / 0	18.96	22.26	0.168	23.00	-0.74
		3697.5	3.30	1 / 0	18.90	22.20	0.166	23.00	-0.80
	16-QAM	3552.5	3.30	1 / 24	17.92	21.22	0.132	23.00	-1.78
	64-QAM	3552.5	3.30	1 / 24	16.53	19.83	0.096	23.00	-3.17
	256-QAM	3552.5	3.30	25 / 0	15.16	18.46	0.070	23.00	-4.54
10 MHz	QPSK	3555.0	3.30	1 / 49	19.02	22.32	0.171	23.00	-0.68
		3625.0	3.30	1 / 49	19.17	22.47	0.177	23.00	-0.53
		3695.0	3.30	1 / 0	18.85	22.15	0.164	23.00	-0.85
	16-QAM	3555.0	3.30	1 / 49	18.05	21.35	0.136	23.00	-1.65
	64-QAM	3555.0	3.30	1 / 49	16.41	19.71	0.094	23.00	-3.29
	256-QAM	3555.0	3.30	50 / 0	15.01	18.31	0.068	23.00	-4.69
15 MHz	QPSK	3557.5	3.30	1 / 74	19.12	22.42	0.175	23.00	-0.58
		3625.0	3.30	1 / 37	19.02	22.32	0.171	23.00	-0.68
		3692.5	3.30	1 / 0	18.80	22.10	0.162	23.00	-0.90
	16-QAM	3557.5	3.30	1 / 37	18.09	21.39	0.138	23.00	-1.61
	64-QAM	3557.5	3.30	1 / 74	16.67	19.97	0.099	23.00	-3.03
	256-QAM	3557.5	3.30	75 / 0	15.32	18.62	0.073	23.00	-4.38
20 MHz	QPSK	3560.0	3.30	1 / 50	19.16	22.46	0.176	23.00	-0.54
		3625.0	3.30	1 / 0	18.94	22.24	0.167	23.00	-0.76
		3690.0	3.30	1 / 0	18.86	22.16	0.164	23.00	-0.84
	16-QAM	3560.0	3.30	1 / 50	18.16	21.46	0.140	23.00	-1.54
	64-QAM	3560.0	3.30	1 / 0	16.67	19.97	0.099	23.00	-3.03
	256-QAM	3560.0	3.30	100 / 0	15.23	18.53	0.071	23.00	-4.47

Table 7-4. Antenna 2 EIRP Data (LTE Band 48)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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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	$\pi/2$ BPSK	3555.0	3.30	24 / 0	19.06	22.36	0.172	23.00	-0.64
		3625.0	3.30	24 / 0	18.90	22.20	0.166	23.00	-0.80
		3695.0	3.30	24 / 0	18.70	22.00	0.158	23.00	-1.00
	QPSK	3555.0	3.30	1 / 1	18.99	22.29	0.169	23.00	-0.71
		3625.0	3.30	1 / 1	18.87	22.17	0.165	23.00	-0.83
		3695.0	3.30	1 / 1	18.81	22.11	0.163	23.00	-0.89
	16-QAM	3555.0	3.30	1 / 22	17.81	21.11	0.129	23.00	-1.89
	64-QAM	3555.0	3.30	24 / 0	17.07	20.37	0.109	23.00	-2.63
	256-QAM	3555.0	3.30	24 / 0	15.05	18.35	0.068	23.00	-4.65
	$\pi/2$ BPSK	3557.5	3.30	36 / 0	19.01	22.31	0.170	23.00	-0.69
		3625.0	3.30	36 / 0	18.87	22.17	0.165	23.00	-0.83
		3692.5	3.30	36 / 0	18.81	22.11	0.163	23.00	-0.89
15 MHz	QPSK	3557.5	3.30	1 / 36	18.93	22.23	0.167	23.00	-0.77
		3625.0	3.30	1 / 36	19.08	22.38	0.173	23.00	-0.62
		3692.5	3.30	1 / 1	18.76	22.06	0.161	23.00	-0.94
	16-QAM	3557.5	3.30	1 / 36	17.94	21.24	0.133	23.00	-1.76
	64-QAM	3557.5	3.30	36 / 0	16.97	20.27	0.106	23.00	-2.73
	256-QAM	3557.5	3.30	36 / 0	14.90	18.20	0.066	23.00	-4.80
20 MHz	$\pi/2$ BPSK	3560.0	3.30	50 / 0	19.06	22.36	0.172	23.00	-0.64
		3625.0	3.30	50 / 0	18.93	22.23	0.167	23.00	-0.77
		3690.0	3.30	50 / 0	18.77	22.07	0.161	23.00	-0.93
	QPSK	3560.0	3.30	1 / 49	19.03	22.33	0.171	23.00	-0.67
		3625.0	3.30	1 / 25	18.93	22.23	0.167	23.00	-0.77
		3690.0	3.30	1 / 1	18.71	22.01	0.159	23.00	-0.99
	16-QAM	3560.0	3.30	1 / 25	17.98	21.28	0.134	23.00	-1.72
	64-QAM	3560.0	3.30	50 / 0	17.12	20.42	0.110	23.00	-2.58
	256-QAM	3560.0	3.30	50 / 0	15.21	18.51	0.071	23.00	-4.49
30 MHz	$\pi/2$ BPSK	3565.0	3.30	75 / 0	19.03	22.33	0.171	23.00	-0.67
		3625.0	3.30	75 / 0	18.82	22.12	0.163	23.00	-0.88
		3685.0	3.30	75 / 0	18.75	22.05	0.160	23.00	-0.95
	QPSK	3565.0	3.30	1 / 36	19.07	22.37	0.173	23.00	-0.63
		3625.0	3.30	1 / 1	18.85	22.15	0.164	23.00	-0.85
		3685.0	3.30	1 / 1	18.77	22.07	0.161	23.00	-0.93
	16-QAM	3565.0	3.30	1 / 36	18.05	21.35	0.136	23.00	-1.65
	64-QAM	3565.0	3.30	75 / 0	17.17	20.47	0.111	23.00	-2.53
	256-QAM	3565.0	3.30	75 / 0	15.12	18.42	0.070	23.00	-4.58
40 MHz	$\pi/2$ BPSK	3570.0	3.30	100 / 0	19.02	22.32	0.171	23.00	-0.68
		3625.0	3.30	100 / 0	18.98	22.28	0.169	23.00	-0.72
		3680.0	3.30	100 / 0	18.71	22.01	0.159	23.00	-0.99
	QPSK	3570.0	3.30	1 / 104	19.08	22.38	0.173	23.00	-0.62
		3625.0	3.30	1 / 50	18.78	22.08	0.161	23.00	-0.92
		3680.0	3.30	1 / 1	18.69	21.99	0.158	23.00	-1.01
	16-QAM	3570.0	3.30	1 / 1	18.01	21.31	0.135	23.00	-1.69
	64-QAM	3625.0	3.30	100 / 0	16.89	20.19	0.104	23.00	-2.81
	256-QAM	3570.0	3.30	100 / 0	15.12	18.42	0.070	23.00	-4.58

Table 7-5. Antenna 2 EIRP Data (NR Band n48)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device	Page 119 of 152

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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	3590.0	1	99	QPSK	55457	3571.7	1	0	18.89	3.30	22.19	0.166	23.00	-0.81	
				55990	3625.0	1	99		56107	3636.7	1	0	19.06	3.30	22.36	0.172	23.00	-0.72	
				56640	3690.0	1	0		56523	3678.3	1	24	19.05	3.30	22.35	0.172	23.00	-0.65	
			QPSK	56640	3690	100	0	QPSK	56523	3678.3	100	0	18.79	3.30	22.09	0.162	23.00	-0.91	
				16-QAM	56640	3690	100	0	16-QAM	56523	3678.3	100	0	18.50	3.30	21.80	0.151	23.00	-1.20
				64-QAM	56640	3690	100	0	64-QAM	56523	3678.3	100	0	18.21	3.30	21.51	0.142	23.00	-1.49
Max	LTE B48	20MHz + 10MHz	256-QAM	56640	3690	100	0	256-QAM	56523	3678.3	100	0	17.96	3.30	21.26	0.134	23.00	-1.74	
				55340	3590.0	1	99	55484	3574.4	1	0	18.99	3.30	22.29	0.169	23.00	-0.71		
				55990	3625.0	1	99	56134	3639.4	1	0	19.03	3.30	22.33	0.171	23.00	-0.67		
			QPSK	56640	3690.0	1	0	QPSK	56496	3675.6	1	49	18.96	3.30	22.26	0.168	23.00	-0.74	
				QPSK	55990	3625	100	0	QPSK	56134	3639.4	100	0	18.75	3.30	22.05	0.160	23.00	-0.95
				16-QAM	55990	3625	100	0	16-QAM	56134	3639.4	100	0	18.53	3.30	21.83	0.152	23.00	-1.17
Max	LTE B48	20MHz + 15MHz	64-QAM	55990	3625	100	0	64-QAM	56134	3639.4	100	0	18.33	3.30	21.63	0.146	23.00	-1.37	
				256-QAM	55990	3625	100	0	256-QAM	56134	3639.4	100	0	18.11	3.30	21.41	0.138	23.00	-1.59
				55340	3590.0	1	99	55511	3577.1	1	0	18.90	3.30	22.20	0.166	23.00	-0.80		
			QPSK	55990	3625.0	1	99	QPSK	56161	3642.1	1	0	19.06	3.30	22.36	0.172	23.00	-0.64	
				56640	3690.0	1	0	56469	3672.9	1	74	19.04	3.30	22.34	0.171	23.00	-0.66		
				QPSK	55990	3625	100	0	QPSK	56161	3642.1	100	0	18.81	3.30	22.11	0.163	23.00	-0.89
Max	LTE B48	20MHz + 20MHz	16-QAM	55990	3625	100	0	16-QAM	56161	3642.1	100	0	18.56	3.30	21.86	0.153	23.00	-1.14	
				64-QAM	55990	3625	100	0	64-QAM	56161	3642.1	100	0	18.29	3.30	21.59	0.144	23.00	-1.41
				256-QAM	55990	3625	100	0	256-QAM	56161	3642.1	100	0	18.06	3.30	21.36	0.137	23.00	-1.64
			QPSK	55340	3590.0	1	99	55538	3579.8	1	0	18.96	3.30	22.26	0.168	23.00	-0.74		
				55990	3625.0	1	99	QPSK	56188	3644.8	1	0	19.04	3.30	22.34	0.171	23.00	-0.66	
				56640	3690.0	1	0	56442	3670.2	1	99	19.00	3.30	22.30	0.170	23.00	-0.70		
Max	LTE B48	20MHz + 20MHz	QPSK	55990	3625	100	0	QPSK	56188	3644.8	100	0	18.79	3.30	22.09	0.162	23.00	-0.91	
				16-QAM	55990	3625	100	0	16-QAM	56188	3644.8	100	0	18.55	3.30	21.85	0.153	23.00	-1.15
				64-QAM	55990	3625	100	0	64-QAM	56188	3644.8	100	0	18.33	3.30	21.63	0.146	23.00	-1.37
			256-QAM	55990	3625	100	0	256-QAM	56188	3644.8	100	0	18.10	3.30	21.40	0.138	23.00	-1.60	

Table 7-6. Antenna 2 EIRP Data (ULCA LTE Band 48)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device
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7.6.3 Antenna 4 – 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	1.50	1 / 24	20.94	22.44	0.175	23.00	-0.56
		3625.0	1.50	1 / 12	20.68	22.18	0.165	23.00	-0.82
		3697.5	1.50	1 / 0	20.61	22.11	0.163	23.00	-0.89
	16-QAM	3552.5	1.50	1 / 12	19.83	21.33	0.136	23.00	-1.67
	64-QAM	3552.5	1.50	1 / 24	18.41	19.91	0.098	23.00	-3.09
	256-QAM	3552.5	1.50	25 / 0	17.10	18.60	0.072	23.00	-4.40
10 MHz	QPSK	3555.0	1.50	1 / 25	20.92	22.42	0.175	23.00	-0.58
		3625.0	1.50	1 / 49	20.73	22.23	0.167	23.00	-0.77
		3695.0	1.50	1 / 0	20.66	22.16	0.164	23.00	-0.84
	16-QAM	3555.0	1.50	1 / 49	19.69	21.19	0.132	23.00	-1.81
	64-QAM	3555.0	1.50	1 / 49	18.37	19.87	0.097	23.00	-3.13
	256-QAM	3555.0	1.50	50 / 0	17.07	18.57	0.072	23.00	-4.43
15 MHz	QPSK	3557.5	1.50	1 / 0	20.93	22.43	0.175	23.00	-0.57
		3625.0	1.50	1 / 74	20.72	22.22	0.167	23.00	-0.78
		3692.5	1.50	1 / 0	20.64	22.14	0.164	23.00	-0.86
	16-QAM	3557.5	1.50	1 / 74	19.84	21.34	0.136	23.00	-1.66
	64-QAM	3557.5	1.50	1 / 0	18.45	19.95	0.099	23.00	-3.05
	256-QAM	3557.5	1.50	75 / 0	17.09	18.59	0.072	23.00	-4.41
20 MHz	QPSK	3560.0	1.50	1 / 0	20.92	22.42	0.175	23.00	-0.58
		3625.0	1.50	1 / 0	20.69	22.19	0.166	23.00	-0.81
		3690.0	1.50	1 / 0	20.61	22.11	0.163	23.00	-0.89
	16-QAM	3560.0	1.50	1 / 50	20.00	21.50	0.141	23.00	-1.50
	64-QAM	3560.0	1.50	1 / 0	18.40	19.90	0.098	23.00	-3.10
	256-QAM	3560.0	1.50	100 / 0	17.02	18.52	0.071	23.00	-4.48

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

FCC ID: BCGA3462		PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device		Page 121 of 152

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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	1.50	24 / 0	20.89	22.39	0.173	23.00	-0.61
		3625.0	1.50	24 / 0	20.66	22.16	0.164	23.00	-0.84
		3695.0	1.50	24 / 0	20.54	22.04	0.160	23.00	-0.96
	QPSK	3555.0	1.50	1 / 22	20.85	22.35	0.172	23.00	-0.65
		3625.0	1.50	1 / 12	20.59	22.09	0.162	23.00	-0.91
		3695.0	1.50	1 / 1	20.52	22.02	0.159	23.00	-0.98
	16-QAM	3555.0	1.50	1 / 12	19.72	21.22	0.132	23.00	-1.78
	64-QAM	3555.0	1.50	24 / 0	18.98	20.48	0.112	23.00	-2.52
	256-QAM	3555.0	1.50	24 / 0	16.99	18.49	0.071	23.00	-4.51
	π/2 BPSK	3557.5	1.50	36 / 0	20.78	22.28	0.169	23.00	-0.72
		3625.0	1.50	36 / 0	20.65	22.15	0.164	23.00	-0.85
		3692.5	1.50	36 / 0	20.59	22.09	0.162	23.00	-0.91
15 MHz	QPSK	3557.5	1.50	1 / 18	20.83	22.33	0.171	23.00	-0.67
		3625.0	1.50	1 / 36	20.64	22.14	0.164	23.00	-0.86
		3692.5	1.50	1 / 1	20.57	22.07	0.161	23.00	-0.93
	16-QAM	3557.5	1.50	1 / 36	19.58	21.08	0.128	23.00	-1.92
	64-QAM	3557.5	1.50	36 / 0	18.87	20.37	0.109	23.00	-2.63
	256-QAM	3557.5	1.50	36 / 0	16.96	18.46	0.070	23.00	-4.54
20 MHz	π/2 BPSK	3560.0	1.50	50 / 0	20.83	22.33	0.171	23.00	-0.67
		3625.0	1.50	50 / 0	20.74	22.24	0.167	23.00	-0.76
		3690.0	1.50	50 / 0	20.58	22.08	0.161	23.00	-0.92
	QPSK	3560.0	1.50	1 / 1	20.84	22.34	0.171	23.00	-0.66
		3625.0	1.50	1 / 49	20.63	22.13	0.163	23.00	-0.87
		3690.0	1.50	1 / 1	20.55	22.05	0.160	23.00	-0.95
	16-QAM	3560.0	1.50	1 / 49	19.73	21.23	0.133	23.00	-1.77
	64-QAM	3560.0	1.50	50 / 0	18.85	20.35	0.108	23.00	-2.65
	256-QAM	3560.0	1.50	50 / 0	16.98	18.48	0.070	23.00	-4.52
30 MHz	π/2 BPSK	3565.0	1.50	75 / 0	20.89	22.39	0.173	23.00	-0.61
		3625.0	1.50	75 / 0	20.72	22.22	0.167	23.00	-0.78
		3685.0	1.50	75 / 0	20.62	22.12	0.163	23.00	-0.88
	QPSK	3565.0	1.50	1 / 1	20.83	22.33	0.171	23.00	-0.67
		3625.0	1.50	1 / 1	20.60	22.10	0.162	23.00	-0.90
		3685.0	1.50	1 / 1	20.52	22.02	0.159	23.00	-0.98
	16-QAM	3565.0	1.50	1 / 36	19.89	21.39	0.138	23.00	-1.61
	64-QAM	3565.0	1.50	75 / 0	18.92	20.42	0.110	23.00	-2.58
	256-QAM	3565.0	1.50	75 / 0	16.91	18.41	0.069	23.00	-4.59
40 MHz	π/2 BPSK	3570.0	1.50	100 / 0	20.88	22.38	0.173	23.00	-0.62
		3625.0	1.50	100 / 0	20.65	22.15	0.164	23.00	-0.85
		3680.0	1.50	100 / 0	20.59	22.09	0.162	23.00	-0.91
	QPSK	3570.0	1.50	1 / 50	20.83	22.33	0.171	23.00	-0.67
		3625.0	1.50	1 / 50	20.57	22.07	0.161	23.00	-0.93
		3680.0	1.50	1 / 1	20.51	22.01	0.159	23.00	-0.99
	16-QAM	3570.0	1.50	1 / 1	19.92	21.42	0.139	23.00	-1.58
	64-QAM	3625.0	1.50	100 / 0	18.73	20.23	0.105	23.00	-2.77
	256-QAM	3570.0	1.50	100 / 0	16.87	18.37	0.069	23.00	-4.63

Table 7-8. Antenna 4 EIRP Data (NR Band n48)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device	Page 122 of 152

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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	20.80	1.50	22.30	-0.70
				55990	3625.0	1	99		56107	3636.7	1	0	20.82	1.50	22.32	-0.68
				56640	3690.0	1	0		56523	3678.3	1	24	20.68	1.50	22.18	-0.65
				55990	3625	100	0		56107	3636.7	100	0	20.58	1.50	22.08	-0.92
			16-QAM	55990	3625	100	0	16-QAM	56107	3636.7	100	0	20.29	1.50	21.79	-1.21
				55990	3625	100	0		56107	3636.7	100	0	20.02	1.50	21.52	-1.48
				55990	3625	100	0		56107	3636.7	100	0	19.75	1.50	21.25	-1.75
				55990	3625	100	0		56107	3636.7	100	0	19.75	1.50	21.25	-1.75
Max	LTE B48	20MHz + 10MHz	QPSK	55340	3560.0	1	99	QPSK	55484	3574.4	1	0	20.24	1.50	21.74	-1.26
				55990	3625.0	1	99		56134	3639.4	1	0	20.84	1.50	22.34	-0.66
				56640	3690.0	1	0		56496	3675.6	1	49	20.28	1.50	21.78	-1.22
				55990	3625	100	0		56134	3639.4	100	0	20.58	1.50	22.08	-0.94
			16-QAM	55990	3625	100	0	16-QAM	56134	3639.4	100	0	20.30	1.50	21.80	-1.20
				55990	3625	100	0		56134	3639.4	100	0	20.03	1.50	21.53	-1.47
				55990	3625	100	0		56134	3639.4	100	0	19.78	1.50	21.28	-1.72
				55990	3625	100	0		56134	3639.4	100	0	19.78	1.50	21.28	-1.72
Max	LTE B48	20MHz + 15MHz	QPSK	55340	3560.0	1	99	QPSK	55511	3577.1	1	0	20.26	1.50	21.76	-1.24
				55990	3625.0	1	99		56161	3642.1	1	0	20.69	1.50	22.19	-0.81
				56640	3690.0	1	0		56469	3672.9	1	74	20.19	1.50	21.69	-1.31
				55990	3625	100	0		56161	3642.1	100	0	20.58	1.50	22.08	-0.92
			16-QAM	55990	3625	100	0	16-QAM	56161	3642.1	100	0	20.36	1.50	21.86	-1.14
				55990	3625	100	0		56161	3642.1	100	0	20.09	1.50	21.59	-1.41
				55990	3625	100	0		56161	3642.1	100	0	19.82	1.50	21.32	-1.68
				55990	3625	100	0		56161	3642.1	100	0	19.82	1.50	21.32	-1.68
Max	LTE B48	20MHz + 20MHz	QPSK	55340	3560.0	1	99	QPSK	55538	3579.8	1	0	20.71	1.50	22.21	-0.79
				55990	3625.0	1	99		56188	3644.8	1	0	20.90	1.50	22.40	-0.60
				56640	3690.0	1	0		56442	3670.2	1	99	20.33	1.50	21.83	-1.17
				55990	3625	100	0		56188	3644.8	100	0	20.61	1.50	22.11	-0.89
			16-QAM	55990	3625	100	0	16-QAM	56188	3644.8	100	0	20.36	1.50	21.86	-1.14
				55990	3625	100	0		56188	3644.8	100	0	20.06	1.50	21.56	-1.44
				55990	3625	100	0		56188	3644.8	100	0	19.78	1.50	21.28	-1.72
				55990	3625	100	0		56188	3644.8	100	0	19.78	1.50	21.28	-1.72

Table 7-9. Antenna 4 EIRP Data (ULCA LTE Band 48)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-13-R1.BCG	Test Dates: 7/15/2025-11/15/2025	EUT Type: Tablet Device
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7.6.4 Antenna 1a – 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	-1.00	1 / 24	23.44	22.44	0.175	23.00	-0.56
		3625.0	-1.00	1 / 12	23.18	22.18	0.165	23.00	-0.82
		3697.5	-1.00	1 / 0	23.11	22.11	0.163	23.00	-0.89
	16-QAM	3552.5	-1.00	1 / 12	22.33	21.33	0.136	23.00	-1.67
	64-QAM	3552.5	-1.00	1 / 24	21.41	20.41	0.110	23.00	-2.59
	256-QAM	3552.5	-1.00	25 / 0	19.60	18.60	0.072	23.00	-4.40
10 MHz	QPSK	3555.0	-1.00	1 / 25	23.42	22.42	0.175	23.00	-0.58
		3625.0	-1.00	1 / 49	23.23	22.23	0.167	23.00	-0.77
		3695.0	-1.00	1 / 0	23.06	22.06	0.161	23.00	-0.94
	16-QAM	3555.0	-1.00	1 / 49	22.19	21.19	0.132	23.00	-1.81
	64-QAM	3555.0	-1.00	1 / 25	21.46	20.46	0.111	23.00	-2.54
	256-QAM	3555.0	-1.00	50 / 0	19.57	18.57	0.072	23.00	-4.43
15 MHz	QPSK	3557.5	-1.00	1 / 0	23.43	22.43	0.175	23.00	-0.57
		3625.0	-1.00	1 / 74	23.22	22.22	0.167	23.00	-0.78
		3692.5	-1.00	1 / 0	23.12	22.12	0.163	23.00	-0.88
	16-QAM	3557.5	-1.00	1 / 74	22.34	21.34	0.136	23.00	-1.66
	64-QAM	3557.5	-1.00	1 / 37	21.46	20.46	0.111	23.00	-2.54
	256-QAM	3557.5	-1.00	75 / 0	19.59	18.59	0.072	23.00	-4.41
20 MHz	QPSK	3560.0	-1.00	1 / 0	23.42	22.42	0.175	23.00	-0.58
		3625.0	-1.00	1 / 0	23.19	22.19	0.166	23.00	-0.81
		3690.0	-1.00	1 / 0	23.11	22.11	0.163	23.00	-0.89
	16-QAM	3560.0	-1.00	1 / 50	22.50	21.50	0.141	23.00	-1.50
	64-QAM	3560.0	-1.00	1 / 50	21.51	20.51	0.112	23.00	-2.49
	256-QAM	3560.0	-1.00	100 / 0	19.52	18.52	0.071	23.00	-4.48

Table 7-10. Antenna 1a 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	-1.00	24 / 0	23.39	22.39	0.173	23.00	-0.61
		3625.0	-1.00	24 / 0	23.16	22.16	0.164	23.00	-0.84
		3695.0	-1.00	24 / 0	23.04	22.04	0.160	23.00	-0.96
	QPSK	3555.0	-1.00	1 / 22	23.35	22.35	0.172	23.00	-0.65
		3625.0	-1.00	1 / 12	23.09	22.09	0.162	23.00	-0.91
		3695.0	-1.00	1 / 1	23.02	22.02	0.159	23.00	-0.98
	16-QAM	3555.0	-1.00	1 / 12	22.22	21.22	0.132	23.00	-1.78
	64-QAM	3555.0	-1.00	24 / 0	21.48	20.48	0.112	23.00	-2.52
256-QAM	3555.0	-1.00	24 / 0	19.49	18.49	0.071	23.00	-4.51	
15 MHz	π/2 BPSK	3557.5	-1.00	36 / 0	23.28	22.28	0.169	23.00	-0.72
		3625.0	-1.00	36 / 0	23.05	22.05	0.160	23.00	-0.95
		3692.5	-1.00	36 / 0	23.05	22.05	0.160	23.00	-0.95
	QPSK	3557.5	-1.00	1 / 18	23.33	22.33	0.171	23.00	-0.67
		3625.0	-1.00	1 / 36	23.14	22.14	0.164	23.00	-0.86
		3692.5	-1.00	1 / 1	22.97	21.97	0.157	23.00	-1.03
	16-QAM	3557.5	-1.00	1 / 36	22.08	21.08	0.128	23.00	-1.92
	64-QAM	3557.5	-1.00	36 / 0	21.37	20.37	0.109	23.00	-2.63
	256-QAM	3557.5	-1.00	36 / 0	19.46	18.46	0.070	23.00	-4.54
	20 MHz	π/2 BPSK	3560.0	-1.00	50 / 0	23.33	22.33	0.171	23.00
3625.0			-1.00	50 / 0	23.14	22.14	0.164	23.00	-0.86
3690.0			-1.00	50 / 0	23.08	22.08	0.161	23.00	-0.92
QPSK		3560.0	-1.00	1 / 1	23.34	22.34	0.171	23.00	-0.66
		3625.0	-1.00	1 / 49	23.13	22.13	0.163	23.00	-0.87
		3690.0	-1.00	1 / 1	23.03	22.03	0.160	23.00	-0.97
16-QAM		3560.0	-1.00	1 / 49	22.23	21.23	0.133	23.00	-1.77
64-QAM		3560.0	-1.00	50 / 0	21.35	20.35	0.108	23.00	-2.65
256-QAM	3560.0	-1.00	50 / 0	19.48	18.48	0.070	23.00	-4.52	
30 MHz	π/2 BPSK	3565.0	-1.00	75 / 0	23.36	22.36	0.172	23.00	-0.64
		3625.0	-1.00	75 / 0	23.09	22.09	0.162	23.00	-0.91
		3685.0	-1.00	75 / 0	23.08	22.08	0.161	23.00	-0.92
	QPSK	3565.0	-1.00	1 / 1	23.33	22.33	0.171	23.00	-0.67
		3625.0	-1.00	1 / 1	23.10	22.10	0.162	23.00	-0.90
		3685.0	-1.00	1 / 1	23.02	22.02	0.159	23.00	-0.98
	16-QAM	3565.0	-1.00	1 / 36	22.39	21.39	0.138	23.00	-1.61
	64-QAM	3565.0	-1.00	75 / 0	21.42	20.42	0.110	23.00	-2.58
256-QAM	3565.0	-1.00	75 / 0	19.41	18.41	0.069	23.00	-4.59	
40 MHz	π/2 BPSK	3570.0	-1.00	100 / 0	23.34	22.34	0.171	23.00	-0.66
		3625.0	-1.00	100 / 0	23.15	22.15	0.164	23.00	-0.85
		3680.0	-1.00	100 / 0	23.11	22.11	0.163	23.00	-0.89
	QPSK	3570.0	-1.00	1 / 50	23.33	22.33	0.171	23.00	-0.67
		3625.0	-1.00	1 / 50	23.07	22.07	0.161	23.00	-0.93
		3680.0	-1.00	1 / 1	23.01	22.01	0.159	23.00	-0.99
	16-QAM	3570.0	-1.00	1 / 1	22.42	21.42	0.139	23.00	-1.58
	64-QAM	3625.0	-1.00	100 / 0	21.23	20.23	0.105	23.00	-2.77
256-QAM	3570.0	-1.00	100 / 0	19.37	18.37	0.069	23.00	-4.63	

Table 7-11. Antenna 1a 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	20.09	-1.00	19.09	0.081	23.00	-3.91	
				55990	3625.0	1	99		56107	3636.7	1	0	22.97	-1.00	21.97	0.157	23.00	-1.03	
				56640	3690.0	1	0		56523	3678.3	1	24	19.43	-1.00	18.43	0.070	23.00	-4.57	
			QPSK	55990	3625	100	0	QPSK	56107	3636.7	100	0	20.79	-1.00	19.79	0.095	23.00	-3.21	
				55990	3625	100	0		16-QAM	56107	3636.7	100	0	20.54	-1.00	19.54	0.090	23.00	-3.46
				64-QAM	55990	3625	100		0	64-QAM	56107	3636.7	100	0	20.28	-1.00	19.28	0.085	23.00
Max	LTE B48	20MHz + 10MHz	256-QAM	55990	3625	100	0	256-QAM	56107	3636.7	100	0	20.05	-1.00	19.05	0.080	23.00	-3.95	
				55340	3560.0	1	99		QPSK	55484	3574.4	1	0	18.88	-1.00	17.88	0.061	23.00	-5.12
				55990	3625.0	1	99			56134	3639.4	1	0	22.88	-1.00	21.88	0.154	23.00	-1.12
			56640	3690.0	1	0	56496	3675.6		1	49	19.09	-1.00	18.09	0.064	23.00	-4.91		
			QPSK	55990	3625	100	0	QPSK	56134	3639.4	100	0	20.27	-1.00	19.27	0.085	23.00	-3.73	
				16-QAM	55990	3625	100		0	16-QAM	56134	3639.4	100	0	20.01	-1.00	19.01	0.080	23.00
64-QAM	55990	3625		100	0	64-QAM	56134		3639.4	100	0	19.74	-1.00	18.74	0.075	23.00	-4.26		
Max	LTE B48	20MHz + 15MHz	256-QAM	55990	3625	100	0	256-QAM	56134	3639.4	100	0	19.53	-1.00	18.53	0.071	23.00	-4.47	
				55340	3560.0	1	99		QPSK	55511	3577.1	1	0	19.04	-1.00	18.04	0.064	23.00	-4.96
				55990	3625.0	1	99			56161	3642.1	1	0	23.05	-1.00	22.05	0.160	23.00	-0.95
			56640	3690.0	1	0	56469	3672.9		1	74	18.98	-1.00	17.98	0.063	23.00	-5.02		
			QPSK	55990	3625	100	0	QPSK	56161	3642.1	100	0	20.31	-1.00	19.31	0.085	23.00	-3.89	
				16-QAM	55990	3625	100		0	16-QAM	56161	3642.1	100	0	20.09	-1.00	19.09	0.081	23.00
64-QAM	55990	3625		100	0	64-QAM	56161		3642.1	100	0	19.8	-1.00	18.80	0.076	23.00	-4.20		
Max	LTE B48	20MHz + 20MHz	256-QAM	55990	3625	100	0	256-QAM	56161	3642.1	100	0	19.57	-1.00	18.57	0.072	23.00	-4.43	
				55340	3560.0	1	99		QPSK	55538	3579.8	1	0	20.46	-1.00	19.46	0.088	23.00	-3.54
				55990	3625.0	1	99			56188	3644.8	1	0	22.92	-1.00	21.92	0.156	23.00	-1.08
			56640	3690.0	1	0	56442	3670.2		1	99	18.95	-1.00	17.95	0.062	23.00	-5.05		
			QPSK	55990	3625	100	0	QPSK	56188	3644.8	100	0	20.31	-1.00	19.31	0.085	23.00	-3.89	
				16-QAM	55990	3625	100		0	16-QAM	56188	3644.8	100	0	20.11	-1.00	19.11	0.081	23.00
64-QAM	55990	3625		100	0	64-QAM	56188		3644.8	100	0	19.89	-1.00	18.89	0.077	23.00	-4.11		
QPSK	55990	3625	100	0	QPSK	56188	3644.8	100	0	19.68	-1.00	18.68	0.074	23.00	-4.32				
	55990	3625	100	0		56188	3644.8	100	0	19.68	-1.00	18.68	0.074	23.00	-4.32				
	55990	3625	100	0		56188	3644.8	100	0	19.68	-1.00	18.68	0.074	23.00	-4.32				

Table 7-12. Antenna 1a 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.

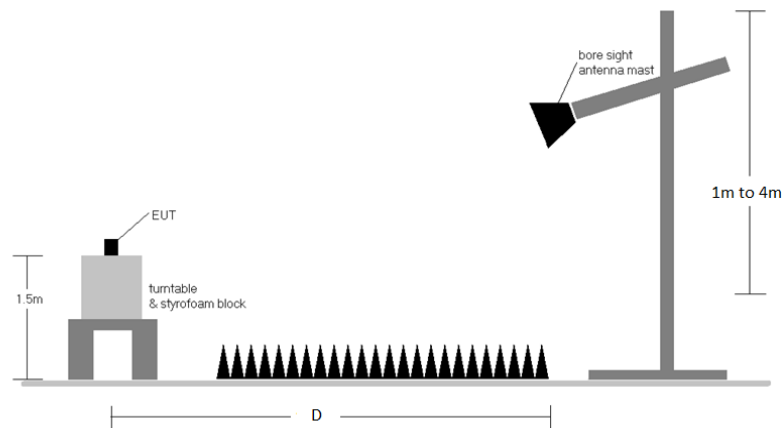


Figure 7-11. Test Instrument & Measurement Setup

Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. 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.
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.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. No significant emissions were found for below 1GHz measurement.
7. 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.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. 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.
10. 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.
11. 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 3a 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	-	-	-78.74	6.10	34.36	-60.90	-40.00	-20.90
10680.0	V	-	-	-79.40	9.05	36.66	-58.60	-40.00	-18.60
14240.0	H	-	-	-81.07	13.72	39.65	-55.61	-40.00	-15.61

Table 7-13. Antenna 3a 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	-	-	-78.37	5.93	34.55	-60.70	-40.00	-20.70
10875.0	V	-	-	-79.94	9.59	36.65	-58.60	-40.00	-18.60
14500.0	H	-	-	-81.21	14.56	40.35	-54.91	-40.00	-14.91

Table 7-14. Antenna 3a 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	-	-	-78.24	5.89	34.66	-60.60	-40.00	-20.60
11070.0	V	-	-	-79.73	9.36	36.63	-58.63	-40.00	-18.63
14760.0	H	-	-	-81.44	15.41	40.97	-54.29	-40.00	-14.29

Table 7-15. Antenna 3a 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	-	-	-78.10	5.99	34.90	-60.36	-40.00	-20.36
10680.0	H	-	-	-80.20	9.17	35.97	-59.29	-40.00	-19.29
14240.0	H	-	-	-81.15	13.71	39.56	-55.69	-40.00	-15.69

Table 7-16. Antenna 3a 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	-	-	-78.70	6.19	34.49	-60.77	-40.00	-20.77
10875.0	V	-	-	-79.80	9.42	36.62	-58.64	-40.00	-18.64
14500.0	H	-	-	-81.05	14.54	40.49	-54.77	-40.00	-14.77

Table 7-17. Antenna 3a 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	H	-	-	-78.49	5.76	34.26	-60.99	-40.00	-20.99
11070.0	V	-	-	-79.76	9.33	36.57	-58.69	-40.00	-18.69
14760.0	V	-	-	-81.47	15.14	40.68	-54.58	-40.00	-14.58

Table 7-18. Antenna 3a 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	-	-	-78.26	5.99	34.73	-60.53	-40.00	-20.53
10680.0	V	319	360	-74.21	9.19	41.98	-53.28	-40.00	-13.28
14240.0	H	-	-	-80.84	13.64	39.80	-55.45	-40.00	-15.45
17800.0	V	-	-	-81.94	18.28	43.34	-51.92	-40.00	-11.92

Table 7-19. Antenna 3a 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	-	-	-78.29	5.93	34.64	-60.62	-40.00	-20.62
10875.0	V	-	-	-79.65	9.62	36.97	-58.29	-40.00	-18.29
14500.0	V	-	-	-81.02	14.49	40.47	-54.79	-40.00	-14.79

Table 7-20. Antenna 3a 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	-	-	-78.05	5.84	34.78	-60.47	-40.00	-20.47
11070.0	H	-	-	-79.63	9.33	36.70	-58.56	-40.00	-18.56
14760.0	H	-	-	-81.45	15.14	40.70	-54.56	-40.00	-14.56

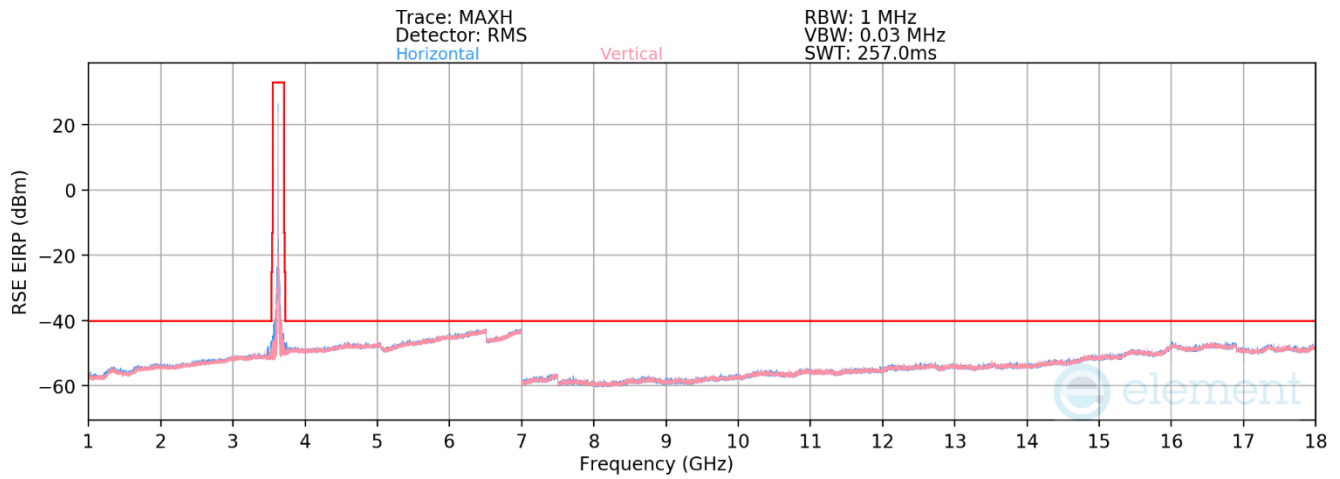
Table 7-21. Antenna 3a Radiated Spurious Data (NR Band n48 – High Channel)

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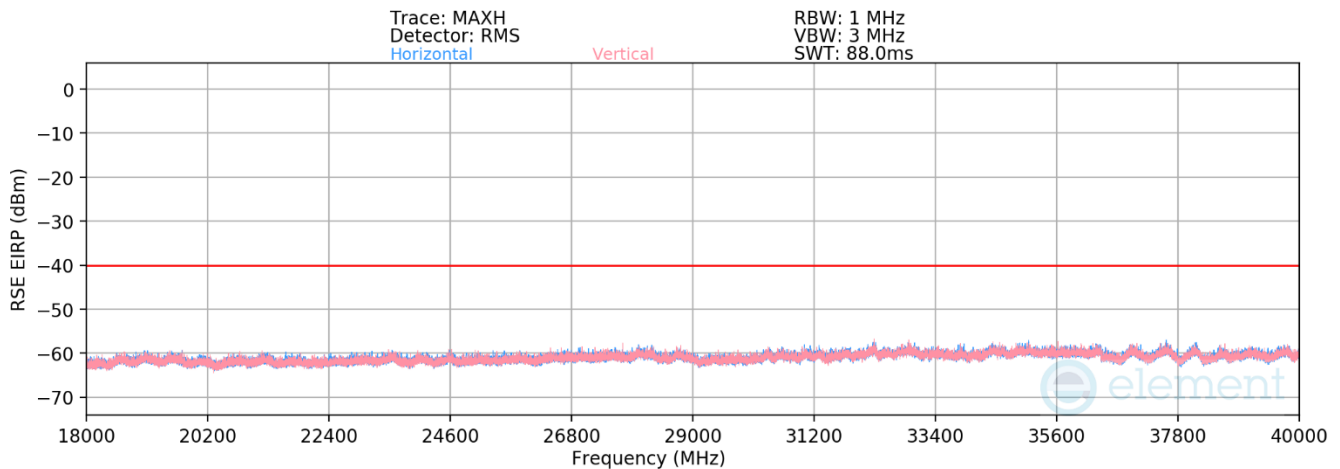
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7.7.2 Antenna 2 Radiated Spurious Emissions Measurements

LTE Band 48



Plot 7-182. Antenna 2 Radiated Spurious Plot 1 – 18GHz (LTE Band 48)



Plot 7-183. Antenna 2 Radiated Spurious Plot 18 – 40GHz (LTE Band 48)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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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	H	-	-	-78.55	5.99	34.44	-60.82	-40.00	-20.82
10680.0	H	-	-	-79.98	9.12	36.14	-59.12	-40.00	-19.12
14240.0	V	-	-	-81.12	13.72	39.61	-55.65	-40.00	-15.65

Table 7-22. Antenna 2 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	-	-	-78.73	6.19	34.47	-60.79	-40.00	-20.79
10875.0	H	-	-	-80.01	9.62	36.61	-58.65	-40.00	-18.65
14500.0	V	-	-	-81.09	14.56	40.48	-54.78	-40.00	-14.78

Table 7-23. Antenna 2 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	-	-	-78.39	5.96	34.56	-60.69	-40.00	-20.69
11070.0	H	-	-	-79.71	9.33	36.63	-58.63	-40.00	-18.63
14760.0	V	-	-	-81.47	15.46	40.99	-54.26	-40.00	-14.26

Table 7-24. Antenna 2 Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: BCGA3462	 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	-	-	-78.46	5.99	34.53	-60.73	-40.00	-20.73
10680.0	H	-	-	-79.85	9.05	36.20	-59.05	-40.00	-19.05
14240.0	H	-	-	-80.88	13.65	39.76	-55.49	-40.00	-15.49

Table 7-25. Antenna 2 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	-	-	-78.26	5.93	34.67	-60.59	-40.00	-20.59
10875.0	H	-	-	-79.86	9.57	36.71	-58.55	-40.00	-18.55
14500.0	V	-	-	-81.04	14.54	40.50	-54.76	-40.00	-14.76

Table 7-26. Antenna 2 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	-	-	-78.36	5.66	34.29	-60.96	-40.00	-20.96
11070.0	V	-	-	-79.63	9.31	36.67	-58.58	-40.00	-18.58
14760.0	H	-	-	-81.58	15.14	40.56	-54.69	-40.00	-14.69

Table 7-27. Antenna 2 Radiated Spurious Data (ULCA LTE Band 48– High Channel)

FCC ID: BCGA3462	 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	V	-	-	-78.45	6.08	34.63	-60.63	-40.00	-20.63
10680.0	H	-	-	-79.77	9.05	36.28	-58.98	-40.00	-18.98
14240.0	V	-	-	-80.93	13.65	39.72	-55.54	-40.00	-15.54

Table 7-28. Antenna 2 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	-	-	-78.47	6.19	34.72	-60.54	-40.00	-20.54
10875.0	H	-	-	-79.80	9.50	36.70	-58.55	-40.00	-18.55
14500.0	V	-	-	-81.36	15.72	41.36	-53.90	-40.00	-13.90

Table 7-29. Antenna 2 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	-	-	-78.41	5.66	34.24	-61.01	-40.00	-21.01
11070.0	V	-	-	-79.51	9.33	36.83	-58.43	-40.00	-18.43
14760.0	H	-	-	-81.60	15.33	40.73	-54.53	-40.00	-14.53

Table 7-30. Antenna 2 Radiated Spurious Data (NR Band n48 – High Channel)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.3 Antenna 4 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	-	-	-78.74	6.10	34.35	-60.91	-40.00	-20.91
10680.0	V	-	-	-80.18	9.17	35.99	-59.27	-40.00	-19.27
14240.0	V	-	-	-81.25	13.78	39.53	-55.73	-40.00	-15.73

Table 7-31. Antenna 4 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	-	-	-78.54	5.96	34.42	-60.84	-40.00	-20.84
10875.0	V	-	-	-79.99	9.62	36.63	-58.63	-40.00	-18.63
14500.0	V	-	-	-81.18	14.49	40.30	-54.95	-40.00	-14.95

Table 7-32. Antenna 4 Radiated Spurious Data (LTE Band 48 – Mid Channel)

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

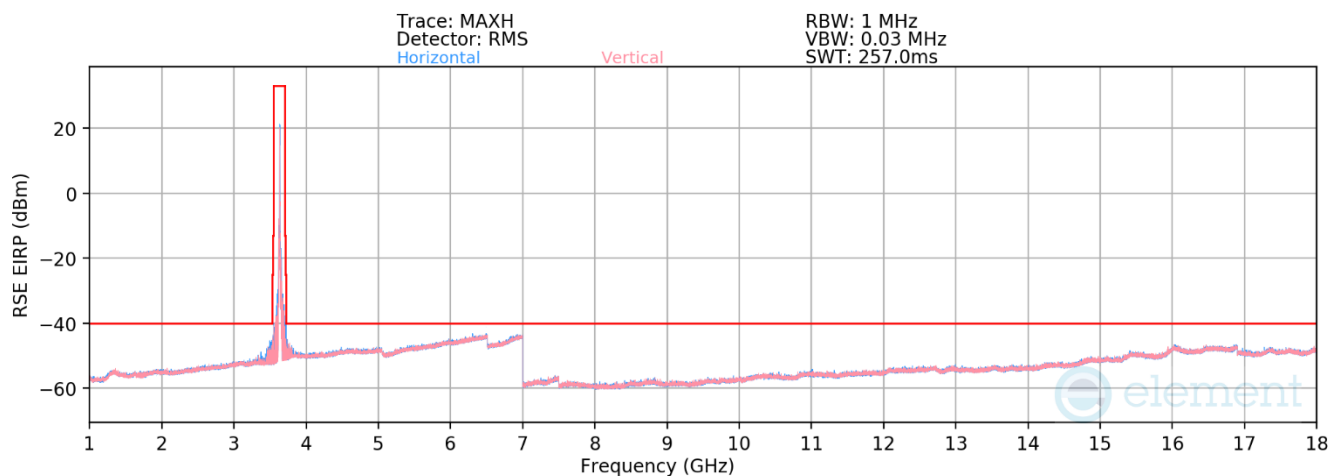
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	V	-	-	-78.45	5.84	34.39	-60.87	-40.00	-20.87
11070.0	V	-	-	-79.47	9.33	36.86	-58.39	-40.00	-18.39
14760.0	H	-	-	-81.57	15.46	40.89	-54.36	-40.00	-14.36

Table 7-33. Antenna 4 Radiated Spurious Data (LTE Band 48 – High Channel)

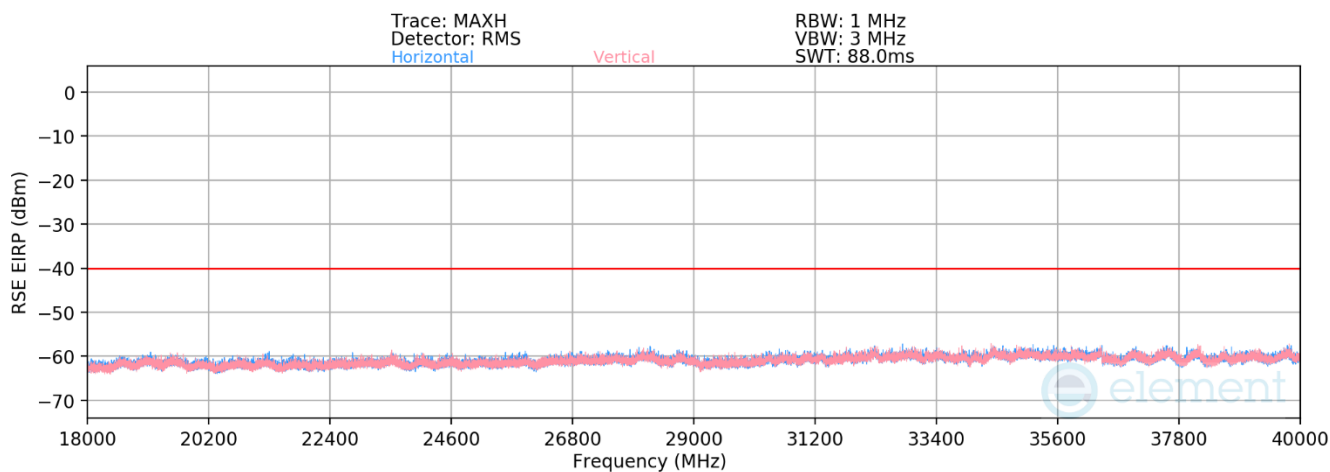
FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 48



Plot 7-184. Antenna 4 Radiated Spurious Plot 1 – 18GHz (ULCA LTE Band 48)



Plot 7-185. Antenna 4 Radiated Spurious Plot 18 – 40GHz (ULCA LTE Band 48)

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PCC Bandwidth (M Hz):	20
PCC Frequency (M Hz):	3560.0
PCC RB / Offset:	1/ 99
SCC Bandwidth (M Hz):	20
SCC Frequency (M Hz):	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	-	-	-78.54	5.99	34.45	-60.81	-40.00	-20.81
10680.0	H	-	-	-79.97	9.22	36.25	-59.01	-40.00	-19.01
14240.0	H	-	-	-81.05	13.71	39.66	-55.59	-40.00	-15.59

Table 7-34. Antenna 4 Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (M Hz):	20
PCC Frequency (M Hz):	3625.0
PCC RB / Offset:	1/ 99
SCC Bandwidth (M Hz):	20
SCC Frequency (M Hz):	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	-	-	-78.78	6.19	34.42	-60.84	-40.00	-20.84
10875.0	V	-	-	-79.57	9.42	36.85	-58.41	-40.00	-18.41
14500.0	V	-	-	-81.11	14.47	40.36	-54.90	-40.00	-14.90

Table 7-35. Antenna 4 Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

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

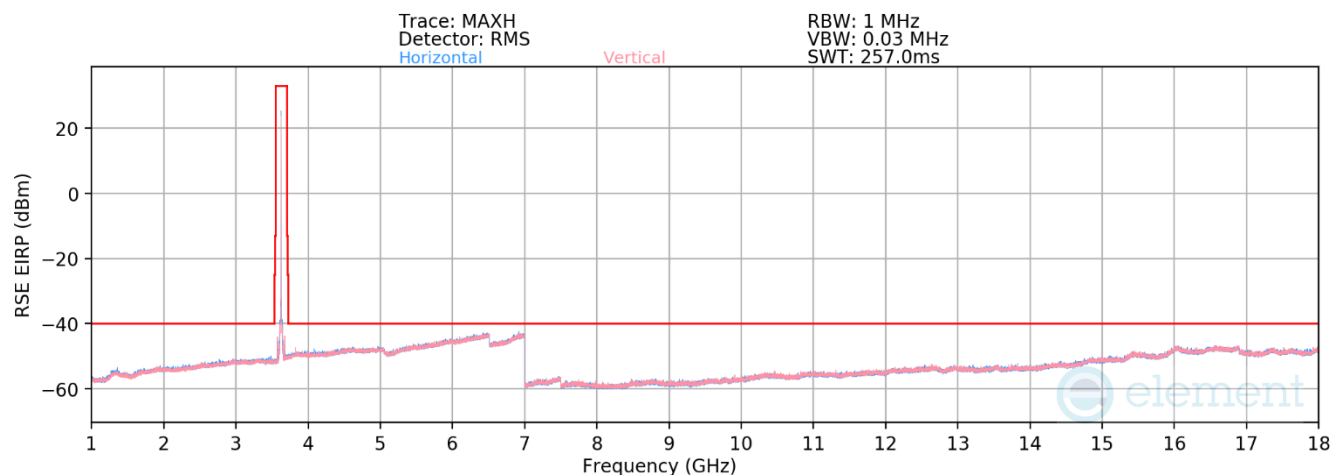
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	H	-	-	-78.15	5.66	34.51	-60.75	-40.00	-20.75
11070.0	H	-	-	-79.74	9.33	36.59	-58.67	-40.00	-18.67
14760.0	V	-	-	-81.46	15.14	40.68	-54.57	-40.00	-14.57

Table 7-36. Antenna 4 Radiated Spurious Data (ULCA LTE Band 48– High Channel)

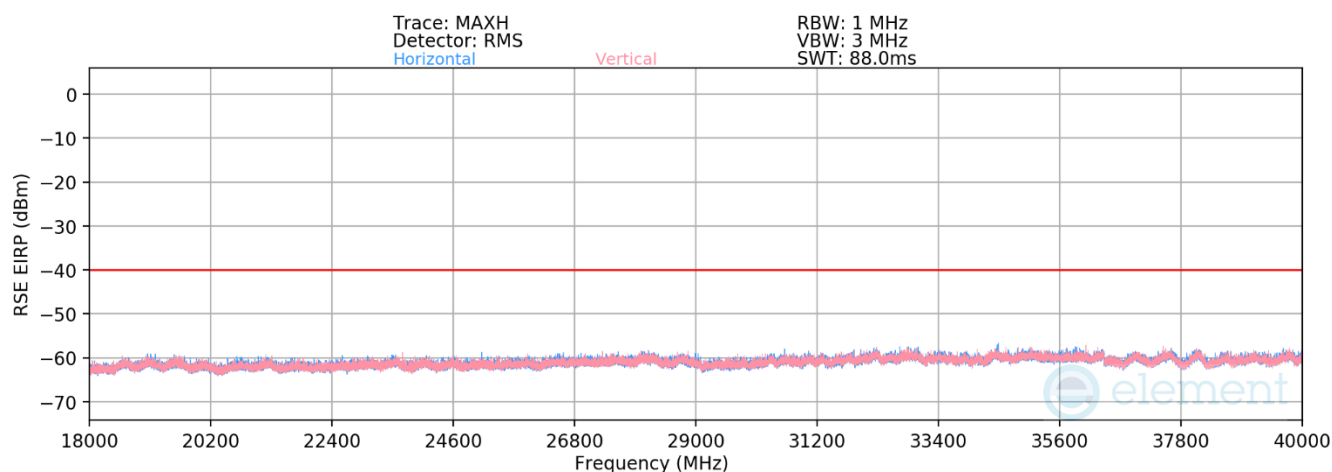
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NR Band n48



Plot 7-186. Antenna 4 Radiated Spurious Plot 1 – 18GHz (NR Band n48)



Plot 7-187. Antenna 4 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	-	-	-77.90	5.99	35.09	-60.16	-40.00	-20.16
10680.0	H	-	-	-79.92	9.17	36.25	-59.01	-40.00	-19.01
14240.0	V	-	-	-80.72	13.64	39.92	-55.34	-40.00	-15.34

Table 7-37. Antenna 4 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	-	-	-78.49	5.96	34.48	-60.78	-40.00	-20.78
10875.0	V	-	-	-79.70	9.62	36.92	-58.34	-40.00	-18.34
14500.0	H	-	-	-80.98	14.49	40.51	-54.75	-40.00	-14.75

Table 7-38. Antenna 4 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	-	-	-78.46	5.66	34.20	-61.06	-40.00	-21.06
11070.0	H	-	-	-79.57	9.31	36.74	-58.52	-40.00	-18.52
14760.0	V	-	-	-81.82	15.33	40.51	-54.74	-40.00	-14.74

Table 7-39. Antenna 4 Radiated Spurious Data (NR Band n48 – High Channel)

FCC ID: BCGA3462	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.4 Antenna 1a 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	-	-	-78.51	5.99	34.48	-60.78	-40.00	-20.78
10680.0	V	-	-	-79.84	9.12	36.28	-58.98	-40.00	-18.98
14240.0	V	-	-	-81.05	13.65	39.60	-55.66	-40.00	-15.66

Table 7-40. Antenna 1a 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	-	-	-78.78	6.19	34.41	-60.85	-40.00	-20.85
10875.0	V	-	-	-80.03	9.62	36.59	-58.67	-40.00	-18.67
14500.0	V	-	-	-81.27	14.52	40.24	-55.01	-40.00	-15.01

Table 7-41. Antenna 1a 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	-	-	-78.19	5.84	34.65	-60.61	-40.00	-20.61
11070.0	V	-	-	-79.73	9.36	36.63	-58.63	-40.00	-18.63
14760.0	V	-	-	-81.34	15.37	41.03	-54.23	-40.00	-14.23

Table 7-42. Antenna 1a Radiated Spurious Data (LTE Band 48 – High Channel)

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ULCA LTE Band 48

PCC Bandwidth (M Hz):	20
PCC Frequency (M Hz):	3560.0
PCC RB / Offset:	1/ 99
SCC Bandwidth (M Hz):	20
SCC Frequency (M Hz):	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	-	-	-78.50	5.99	34.49	-60.77	-40.00	-20.77
10680.0	V	-	-	-80.20	9.17	35.97	-59.29	-40.00	-19.29
14240.0	V	-	-	-80.93	13.65	39.73	-55.53	-40.00	-15.53

Table 7-43. Antenna 1a Radiated Spurious Data (ULCA LTE Band 48– Low Channel)

PCC Bandwidth (M Hz):	20
PCC Frequency (M Hz):	3625.0
PCC RB / Offset:	1/ 99
SCC Bandwidth (M Hz):	20
SCC Frequency (M Hz):	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	-	-	-78.21	5.93	34.71	-60.54	-40.00	-20.54
10875.0	V	-	-	-79.81	9.57	36.76	-58.50	-40.00	-18.50
14500.0	H	-	-	-80.93	14.54	40.61	-54.65	-40.00	-14.65

Table 7-44. Antenna 1a Radiated Spurious Data (ULCA LTE Band 48– Mid Channel)

PCC Bandwidth (M Hz):	20
PCC Frequency (M Hz):	3690.0
PCC RB / Offset:	1/ 99
SCC Bandwidth (M Hz):	20
SCC Frequency (M Hz):	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	-	-	-78.32	5.66	34.34	-60.92	-40.00	-20.92
11070.0	H	-	-	-79.82	9.42	36.61	-58.65	-40.00	-18.65
14760.0	V	-	-	-81.61	15.33	40.72	-54.54	-40.00	-14.54

Table 7-45. Antenna 1a 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	H	-	-	-78.30	5.99	34.69	-60.56	-40.00	-20.56
10680.0	H	-	-	-80.22	9.22	35.99	-59.26	-40.00	-19.26
14240.0	H	-	-	-81.06	13.64	39.58	-55.68	-40.00	-15.68

Table 7-46. Antenna 1a 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	-	-	-78.54	5.93	34.38	-60.87	-40.00	-20.87
10875.0	H	-	-	-79.86	9.42	36.56	-58.70	-40.00	-18.70
14500.0	V	-	-	-81.08	14.52	40.44	-54.82	-40.00	-14.82

Table 7-47. Antenna 1a 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	-	-	-78.28	5.66	34.38	-60.88	-40.00	-20.88
11070.0	V	-	-	-79.70	9.42	36.72	-58.53	-40.00	-18.53
14760.0	V	-	-	-81.64	15.14	40.50	-54.76	-40.00	-14.76

Table 7-48. Antenna 1a Radiated Spurious Data (NR Band n48 – High Channel)

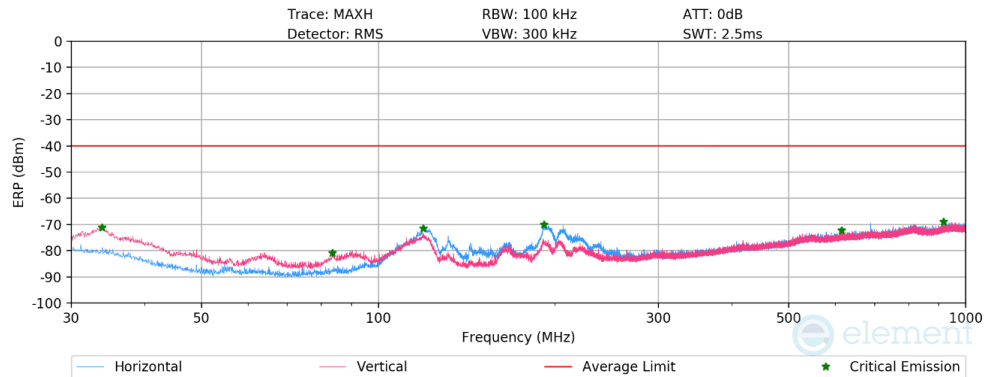
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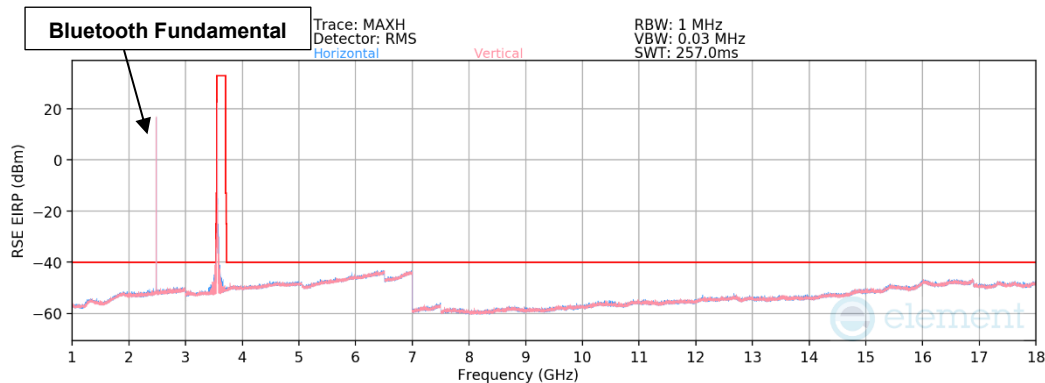
7.7.5 Simultaneous Tx Radiated Spurious Emissions Measurements

Description	LTE (Band 48)	Bluetooth
Antenna	Antenna 3a	Antenna 3a
Channel	55340	78
Operating Frequency (MHz)	3560	2480
Mode/Modulation	QPSK/1RB/20MHz	GFSK ePA

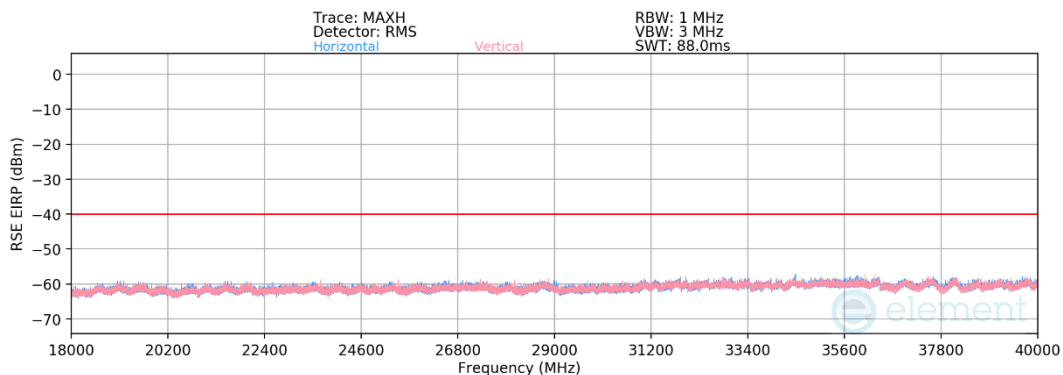
Table 7-49. Worst Case Simultaneous Transmission Configuration



Plot 7-188. Radiated Spurious Emissions - Simultaneous Transmission 30MHz – 1GHz



Plot 7-189. Radiated Spurious Emissions - Simultaneous Transmission 1GHz – 18GHz



Plot 7-190. Radiated Spurious Emissions - Simultaneous Transmission Above 18GHz

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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Peak	H	-	-	-66.28	2.71	43.43	73.98	-30.55
7440.00	Peak	V	-	-	-65.95	5.55	46.60	73.98	-27.38
12400.00	Peak	V	-	-	-68.68	12.39	50.71	73.98	-23.27

Table 7-50. BT Harmonics Emissions Measurements in Simultaneous Transmission Mode

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]
7120.00	H	-	-	-79.62	5.98	33.36	-61.90	-40.00	-21.90
10680.00	V	-	-	-80.16	9.09	35.93	-59.33	-40.00	-19.33
14240.00	H	-	-	-83.20	13.66	37.46	-57.80	-40.00	-17.80
17800.00	V	-	-	-84.60	18.29	40.69	-54.57	-40.00	-14.57
4640.00*	H	-	-	-78.10	2.82	31.72	-63.54	-40.00	-23.54
1400.00*	H	-	-	-75.22	3.13	34.91	-60.35	-40.00	-20.35

Table 7-51. LTE Band 48 Harmonics and Intermodulation(*) Emissions Measurements in Simultaneous Transmission Mode

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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

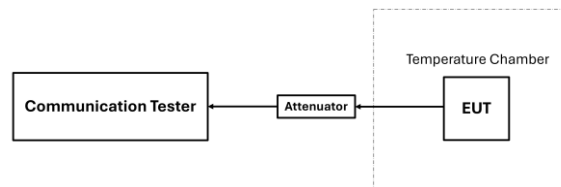


Figure 7-12. LTE Test Instrument & Measurement Setup

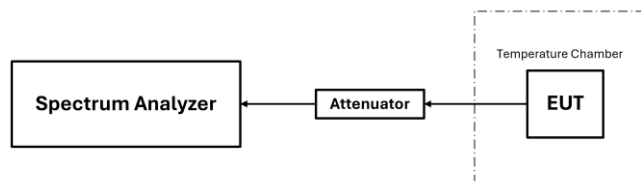


Figure 7-13. FR1 Test Instrument & Measurement Setup

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	3.55061948	-0.00061948
		- 20	3.55007835	-0.00007835
		- 10	3.55094577	-0.00094577
		0	3.55033264	-0.00033264
		+ 10	3.55070129	-0.00070129
		+ 20 (Ref)	3.55018490	-0.00018490
		+ 30	3.55056271	-0.00056271
		+ 40	3.55091325	-0.00091325
		+ 50	3.55042800	-0.00042800
Battery Endpoint	3.40	+ 20	3.55025637	-0.00025637

Table 52. 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	3.69953728	-0.00046272
		- 20	3.69978262	-0.00021739
		- 10	3.69916490	-0.00083510
		0	3.69962147	-0.00037853
		+ 10	3.69944822	-0.00055178
		+ 20 (Ref)	3.69970935	-0.00029065
		+ 30	3.69929258	-0.00070742
		+ 40	3.69957391	-0.00042609
		+ 50	3.69918947	-0.00081053
Battery Endpoint	3.40	+ 20	3.69966580	-0.00033420

Table 53. 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	3.55042738	-0.00042738
		- 20	3.55089321	-0.00089321
		- 10	3.55010477	-0.00010477
		0	3.55067292	-0.00067292
		+ 10	3.55021938	-0.00021938
		+ 20 (Ref)	3.55050819	-0.00050819
		+ 30	3.55094728	-0.00094728
		+ 40	3.55031176	-0.00031176
		+ 50	3.55078540	-0.00078540
Battery Endpoint	3.40	+ 20	3.55005264	-0.00005264

Table 54. 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	3.69981472	-0.00018528
		- 20	3.69912754	-0.00087246
		- 10	3.69995328	-0.00004672
		0	3.69960217	-0.00039783
		+ 10	3.69934981	-0.00065019
		+ 20 (Ref)	3.69972495	-0.00027505
		+ 30	3.69905123	-0.00094877
		+ 40	3.69958743	-0.00041257
		+ 50	3.69998210	-0.00001790
Battery Endpoint	3.40	+ 20	3.69921651	-0.00078349

Table 55. 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

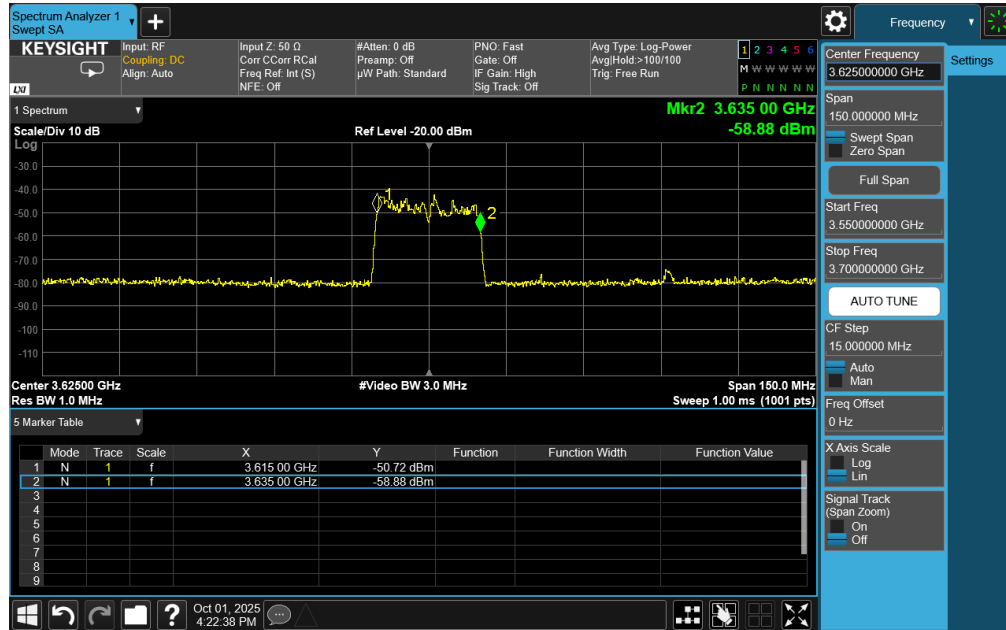
The EUT is an End User Device.

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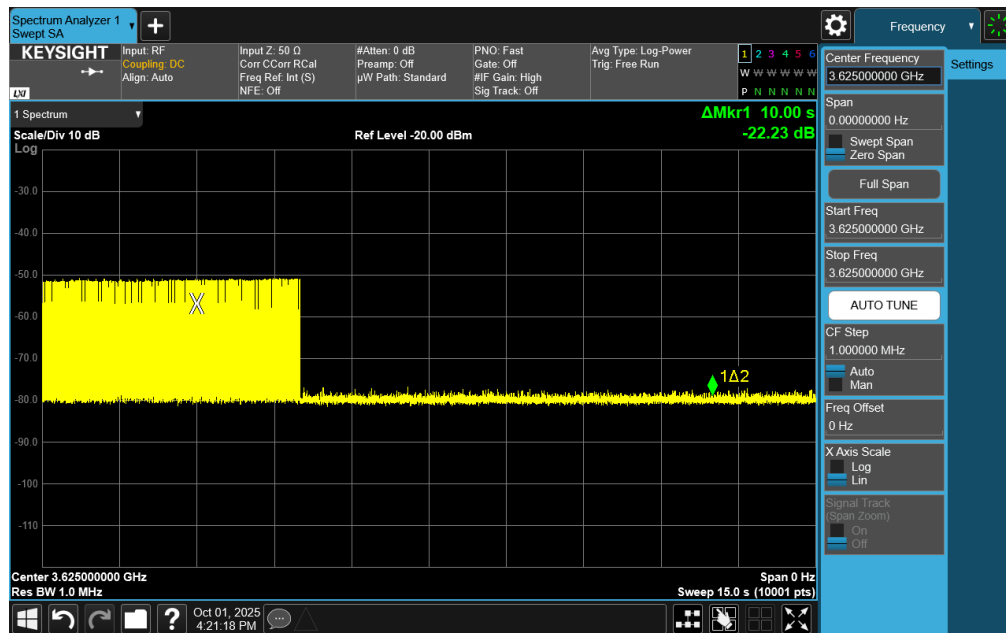
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Run#1 LTE-B48:

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



Plot 7-191. Run#1 End User Device Frequency of Operations



Plot 7-192. 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.

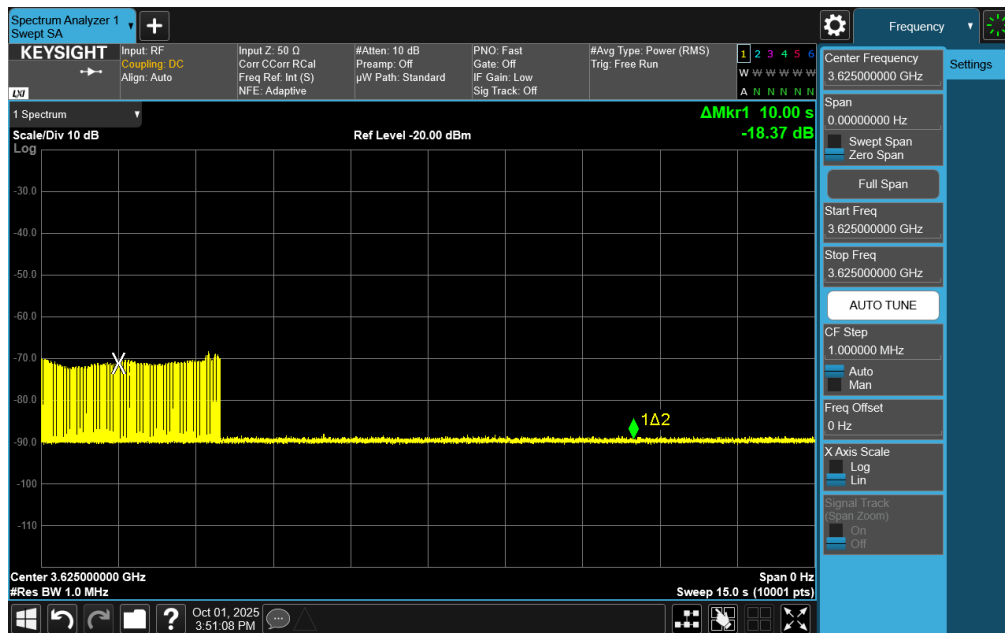
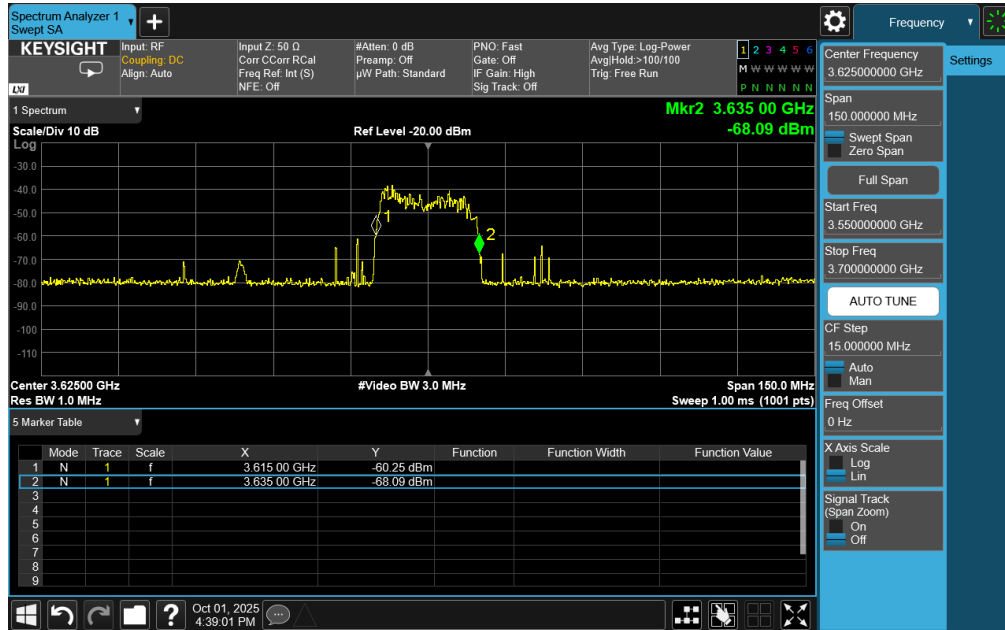
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Run#2 FR1-n48:

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



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: BCGA3462** complies with all the End User Device requirements of Part 96 of the FCC Rules.

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