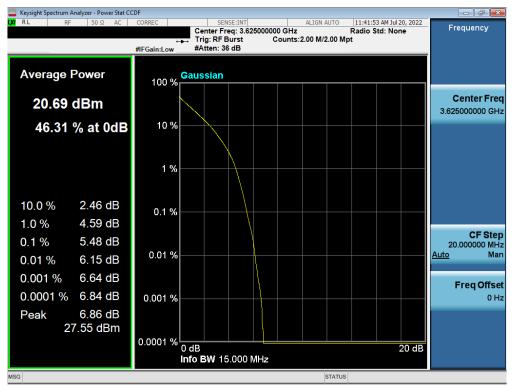
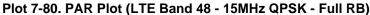


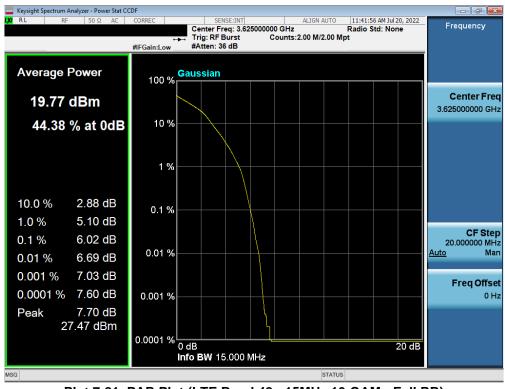
Plot 7-79. PAR Plot (LTE Band 48 - 10MHz 256-QAM - Full RB)

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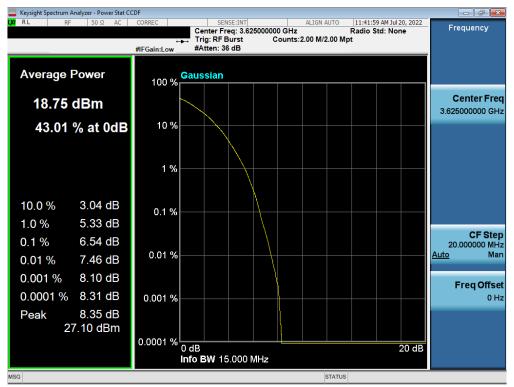


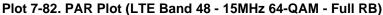


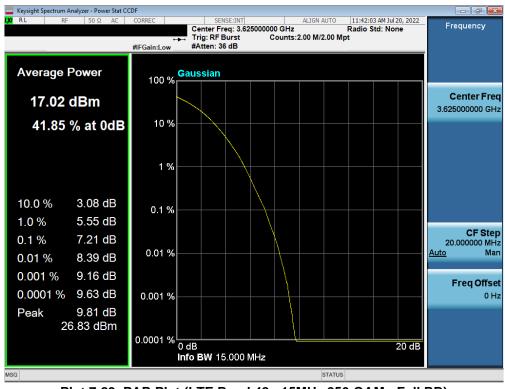
Plot 7-81. PAR Plot (LTE Band 48 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager	
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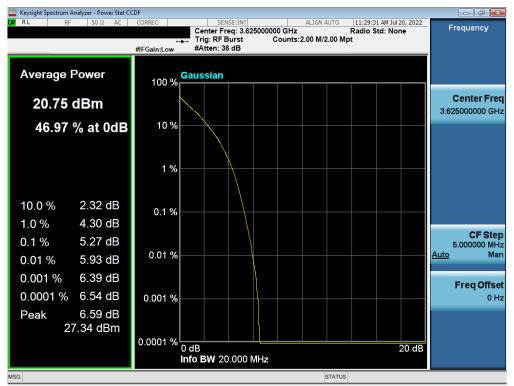


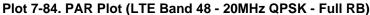


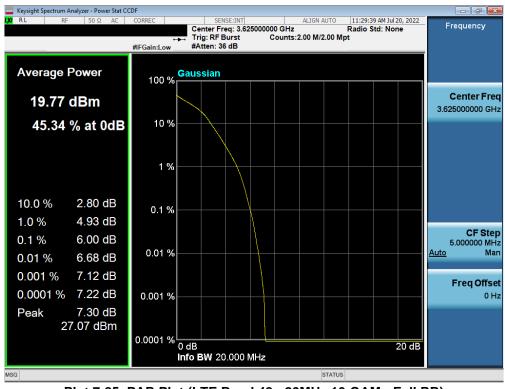
Plot 7-83. PAR Plot (LTE Band 48 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA2757		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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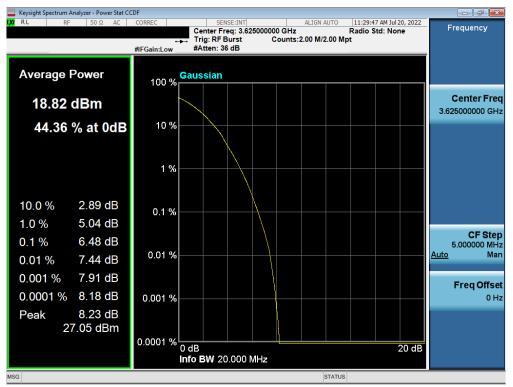


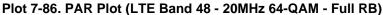


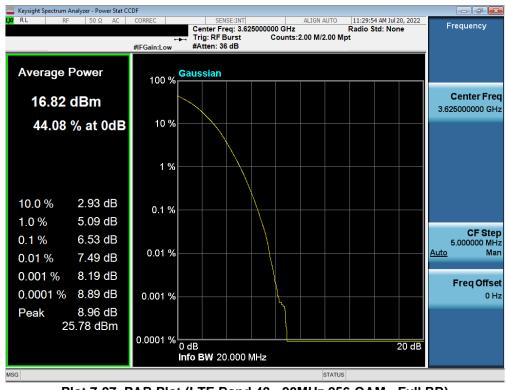
Plot 7-85. PAR Plot (LTE Band 48 - 20MHz 16-QAM - Full RB)

FCC ID: BCGA2757		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-87. PAR Plot (LTE Band 48 - 20MHz 256-QAM - Full RB)

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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:

EIRP = PMeas - LC + 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 7-5. EIRP 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 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).
- 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.

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Antenna 3b – 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]
		3552.5	2.60	1 / 0	19.40	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.60	1 / 24	19.23	21.83	0.152	23.00	-1.17
5 MHz		3697.5	2.60	1 / 0	19.31	21.91	0.155	23.00	-1.09
5 N	16-QAM	3552.5	2.60	1 / 0	18.38	20.98	0.125	23.00	-2.02
	64-QAM	3552.5	2.60	1 / 0	17.74	20.34	0.108	23.00	-2.66
	256-QAM	3552.5	2.60	1 / 0	14.65	17.25	0.053	23.00	-5.75
		3555.0	2.60	1 / 49	19.40	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.60	1 / 49	19.14	21.74	0.149	23.00	-1.26
НИ		3695.0	2.60	1/0	19.28	21.88	0.154	23.00	-1.12
10 MHz	16-QAM	3695.0	2.60	1/0	18.48	21.08	0.128	23.00	-1.92
~	64-QAM	3555.0	2.60	1/0	17.38	19.98	0.100	23.00	-3.02
	256-QAM	3555.0	2.60	1 / 0	14.47	17.07	0.051	23.00	-5.93
		3557.5	2.60	1 / 74	19.30	21.90	0.155	23.00	-1.10
N	QPSK	3625.0	2.60		19.30	21.90	0.155	23.00	-1.10
HM		3692.5	2.60	1 / 37	19.40	22.00	0.158	23.00	-1.00
15 MHz	16-QAM	3692.5	2.60	1 / 37	18.57	21.17	0.131	23.00	-1.83
F	64-QAM	3625.0	2.60	1 / 74	17.32	19.92	0.098	23.00	-3.08
	256-QAM	3692.5	2.60	1 / 74	14.51	17.11	0.051	23.00	-5.89
		3560.0	2.60	1 / 99	19.40	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.60	1 / 99	19.38	21.98	0.158	23.00	-1.02
НИ		3690.0	2.60	1 / 0	19.37	21.97	0.157	23.00	-1.03
20 MHz	16-QAM	3625.0	2.60	1 / 99	18.66	21.26	0.134	23.00	-1.74
2	64-QAM	3560.0	2.60	1 / 99	17.55	20.15	0.104	23.00	-2.85
	256-QAM	3560.0	2.60	1/99	15.00	17.60	0.058	23.00	-5.40

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

					PCC					SCC			ULCA						
Power State	Band	Bandwidth (PCC + SCC)	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]	
				55340	3560.0	1	99		55457	3571.7	1	0	19.36	2.60	21.96	0.157	23.00	-1.04	
			QPSK	55990	3625.0	1	99	QPSK	56107	3636.7	1	0	19.14	2.60	21.74	0.149	23.00	-1.26	
				56640	3690.0	1	0	1	56523	3678.3	1	24	19.16	2.60	21.76	0.150	23.00	-1.24	
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560	100	0	QPSK	55457	3571.7	25	0	17.58	2.60	20.18	0.104	23.00	-2.82	
			16-QAM	55340	3560	100	0	16-QAM	55457	3571.7	25	0	16.55	2.60	19.15	0.082	23.00	-3.85	
			64-QAM	55340	3560	100	0	64-QAM	55457	3571.7	25	0	16.49	2.60	19.09	0.081	23.00	-3.91	
			256-QAM	55340	3560	100	0	256-QAM	55457	3571.7	25	0	14.56	2.60	17.16	0.052	23.00	-5.84	
				55340	3560.0	1	99		55484	3574.4	1	0	19.28	2.60	21.88	0.154	23.00	-1.12	
			QPSK	55990	3625.0	1	99	QPSK	56134	3639.4	1	0	19.28	2.60	21.88	0.154	23.00	-1.12	
				56640	3690.0	1	0	56496	56496	3675.6	1	49	19.20	2.60	21.80	0.151	23.00	-1.20	
Max	LTE B48 20MHz + 10MHz	QPSK	55340	3560	100	0	QPSK	55484	3574.4	50	0	17.59	2.60	20.19	0.104	23.00	-2.81		
		16-QAM	55340	3560	100	0	16-QAM	55484	3574.4	50	0	16.40	2.60	19.00	0.079	23.00	-4.00		
			64-QAM	55340	3560	100	0	64-QAM	55484	3574.4	50	0	16.57	2.60	19.17	0.083	23.00	-3.83	
			256-QAM	55340	3560	100	0	256-QAM	55484	3574.4	50	0	14.51	2.60	17.11	0.051	23.00	-5.89	
				55340	3560.0	1	99		55511	3577.1	1	0	19.28	2.60	21.88	0.154	23.00	-1.12	
			QPSK	55990	3625.0	1	99	QPSK	56161	3642.1	1	0	19.13	2.60	21.73	0.149	23.00	-1.27	
				56640	3690.0	1	0		56469	3672.9	1	74	19.28	2.60	21.88	0.154	23.00	-1.12	
Max	LTE B48	20MHz + 15MHz	QPSK	55340	3560	100	0	QPSK	55511	3577.1	75	0	17.50	2.60	20.10	0.102	23.00	-2.90	
			16-QAM	55340	3560	100	0	16-QAM	55511	3577.1	75	0	16.51	2.60	19.11	0.081	23.00	-3.89	
				64-QAM	55340	3560	100	0	64-QAM	55511	3577.1	75	0	16.50	2.60	19.10	0.081	23.00	-3.90
			256-QAM	55340	3560	100	0	256-QAM	55511	3577.1	75	0	14.49	2.60	17.09	0.051	23.00	-5.91	
				55340	3560.0	1	99		55538	3579.8	1	0	19.31	2.60	21.91	0.155	23.00	-1.09	
			QPSK	55990	3625.0	1	99	QPSK	56188	3644.8	1	0	19.39	2.60	21.99	0.158	23.00	-1.01	
				56640	3690.0	1	0		56442	3670.2	1	99	19.19	2.60	21.79	0.151	23.00	-1.21	
Max	LTE B48	20MHz + 20MHz	QPSK	55990	3625	100	0	QPSK	56188	3644.8	100	0	17.43	2.60	20.03	0.101	23.00	-2.97	
			16-QAM	55990	3625	100	0	16-QAM	56188	3644.8	100	0	16.45	2.60	19.05	0.080	23.00	-3.95	
		64-QAM	55990	3625	100	0	64-QAM	56188	3644.8	100	0	16.55	2.60	19.15	0.082	23.00	-3.85		
			256-QAM	55990	3625	100	0	256-QAM	56188	3644.8	100	0	14.55	2.60	17.15	0.052	23.00	-5.85	

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

FCC ID: BCGA2757	element 🤤	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Antenna 2a – 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]
		3552.5	2.20	1 / 24	19.80	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.20	1 / 0	19.57	21.77	0.150	23.00	-1.23
5 MHz		3697.5	2.20	1 / 0	19.61	21.81	0.152	23.00	-1.19
2 2	16-QAM	3552.5	2.20	1 / 12	18.81	21.01	0.126	23.00	-1.99
	64-QAM	3625.0	2.20	1 / 24	18.20	20.40	0.110	23.00	-2.60
	256-QAM	3552.5	2.20	1 / 0	14.94	17.14	0.052	23.00	-5.86
		3555.0	2.20	1 / 0	19.80	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.20	1 / 0	19.61	21.81	0.152	23.00	-1.19
НИ		3695.0	2.20	1 / 49	19.70	21.90	0.155	23.00	-1.10
10 MHz	16-QAM	3625.0	2.20	1 / 49	18.80	21.00	0.126	23.00	-2.00
	64-QAM	3625.0	2.20	1 / 49	18.24	20.44	0.111	23.00	-2.56
	256-QAM	3555.0	2.20	50 / 0	14.84	17.04	0.051	23.00	-5.96
		3557.5	2.20	1 / 0	19.80	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.20	1 / 74	19.76	21.96	0.157	23.00	-1.04
15 MHz		3692.5	2.20	1 / 37	19.78	21.98	0.158	23.00	-1.02
21	16-QAM	3625.0	2.20	1 / 37	18.95	21.15	0.130	23.00	-1.85
	64-QAM	3625.0	2.20	1 / 74	18.38	20.58	0.114	23.00	-2.42
	256-QAM	3557.5	2.20	75 / 0	14.92	17.12	0.052	23.00	-5.88
		3560.0	2.20	1 / 0	19.72	21.92	0.156	23.00	-1.08
N	QPSK	3625.0	2.20	1 / 0	19.68	21.88	0.154	23.00	-1.12
20 MHz		3690.0	2.20	1 / 0	19.80	22.00	0.158	23.00	-1.00
0	16-QAM	3560.0	2.20	1 / 0	18.58	20.78	0.120	23.00	-2.22
	64-QAM	3560.0	2.20	1 / 99	18.34	20.54	0.113	23.00	-2.46
	256-QAM	3690.0	2.20	100 / 0	14.91	17.11	0.051	23.00	-5.89

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

					PCC					SCC			ULCA					
Power State	Band	Bandwidth (PCC + SCC)	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
				55340	3560.0	1	99		55457	3571.7	1	0	19.75	2.20	21.95	0.157	23.00	-1.05
			QPSK	55990	3625.0	1	99	QPSK	56107	3636.7	1	0	19.63	2.20	21.83	0.152	23.00	-1.17
				56640	3690.0	1	0		56523	3678.3	1	24	19.50	2.20	21.70	0.148	23.00	-1.30
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560	100	0	QPSK	55457	3571.7	25	0	17.91	2.20	20.11	0.103	23.00	-2.89
			16-QAM	55340	3560	100	0	16-QAM	55457	3571.7	25	0	16.93	2.20	19.13	0.082	23.00	-3.87
			64-QAM	55340	3560	100	0	64-QAM	55457	3571.7	25	0	16.87	2.20	19.07	0.081	23.00	-3.93
			256-QAM	55340	3560	100	0	256-QAM	55457	3571.7	25	0	14.85	2.20	17.05	0.051	23.00	-5.95
				55340	3560.0	1	99		55484	3574.4	1	0	19.68	2.20	21.88	0.154	23.00	-1.12
			QPSK	55990	3625.0	1	99	QPSK	56134	3639.4	1	0	19.79	2.20	21.99	0.158	23.00	-1.01
				56640	3690.0	1	0	1	56496	3675.6	1	49	19.57	2.20	21.77	0.150	23.00	-1.23
Max	Max LTE B48 2	20MHz + 10MHz	QPSK	55990	3625	100	0	QPSK	56134	3639.4	50	0	17.90	2.20	20.10	0.102	23.00	-2.90
			16-QAM	55990	3625	100	0	16-QAM	56134	3639.4	50	0	16.93	2.20	19.13	0.082	23.00	-3.87
			64-QAM	55990	3625	100	0	64-QAM	56134	3639.4	50	0	16.98	2.20	19.18	0.083	23.00	-3.82
			256-QAM	55990	3625	100	0	256-QAM	56134	3639.4	50	0	14.95	2.20	17.15	0.052	23.00	-5.85
				55340	3560.0	1	99		55511	3577.1	1	0	19.55	2.20	21.75	0.150	23.00	-1.25
			QPSK	55990	3625.0	1	99	QPSK	56161	3642.1	1	0	19.51	2.20	21.71	0.148	23.00	-1.29
				56640	3690.0	1	0	1	56469	3672.9	1	74	19.63	2.20	21.83	0.152	23.00	-1.17
Max	LTE B48	20MHz + 15MHz	QPSK	56640	3690	100	0	QPSK	56469	3672.9	75	0	17.96	2.20	20.16	0.104	23.00	-2.84
			16-QAM	56640	3690	100	0	16-QAM	56469	3672.9	75	0	16.80	2.20	19.00	0.079	23.00	-4.00
			64-QAM	56640	3690	100	0	64-QAM	56469	3672.9	75	0	16.97	2.20	19.17	0.083	23.00	-3.83
			256-QAM	56640	3690	100	0	256-QAM	56469	3672.9	75	0	14.88	2.20	17.08	0.051	23.00	-5.92
				55340	3560.0	1	99		55538	3579.8	1	0	19.53	2.20	21.73	0.149	23.00	-1.27
			QPSK	55990	3625.0	1	99	QPSK	56188	3644.8	1	0	19.54	2.20	21.74	0.149	23.00	-1.26
				56640	3690.0	1	0	1	56442	3670.2	1	99	19.80	2.20	22.00	0.158	23.00	-1.00
Max	LTE B48	20MHz + 20MHz	QPSK	56640	3690	100	0	QPSK	56442	3670.2	100	0	17.81	2.20	20.01	0.100	23.00	-2.99
			16-QAM	56640	3690	100	0	16-QAM	56442	3670.2	100	0	16.97	2.20	19.17	0.083	23.00	-3.83
			64-QAM	56640	3690	100	0	64-QAM	56442	3670.2	100	0	16.85	2.20	19.05	0.080	23.00	-3.95
			256-QAM	56640	3690	100	0	256-QAM	56442	3670.2	100	0	14.94	2.20	17.14	0.052	23.00	-5.86

Table 7-5. EIRP Data (ULCA Band 48)

FCC ID: BCGA2757	element)	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 66 of 86	
1C2205090023-09-R1.BCG	5/30/2022-9/13/2022	Tablet Device	Fage 00 01 00	
			\/2 1 11/0/2021	



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]
		3552.5	2.50	1/0	19.50	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.50	1 / 0	19.30	21.80	0.151	23.00	-1.20
E		3697.5	2.50	1 / 0	19.14	21.64	0.146	23.00	-1.36
5 MHz	16-QAM	3552.5	2.50	1 / 0	18.51	21.01	0.126	23.00	-1.99
	64-QAM	3552.5	2.50	1 / 24	17.87	20.37	0.109	23.00	-2.63
	256-QAM	3552.5	2.50	1 / 24	14.75	17.25	0.053	23.00	-5.75
		3555.0	2.50	1 / 49	19.50	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.50	1 / 0	19.23	21.73	0.149	23.00	-1.27
H		3695.0	2.50	1 / 49	19.20	21.70	0.148	23.00	-1.30
10 MHz	16-QAM	3625.0	2.50	1 / 0	18.59	21.09	0.129	23.00	-1.91
~	64-QAM	3555.0	2.50	1 / 0	17.49	19.99	0.100	23.00	-3.01
	256-QAM	3555.0	2.50	1 / 0	14.54	17.04	0.051	23.00	-5.96
		3557.5	2.50	1 / 74	19.50	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.50	1 / 0	19.44	21.94	0.156	23.00	-1.06
H		3692.5	2.50	1 / 0	19.32	21.82	0.152	23.00	-1.18
15 MHz	16-QAM	3625.0	2.50	1 / 37	18.63	21.13	0.130	23.00	-1.87
T T	64-QAM	3625.0	2.50	1 / 0	17.47	19.97	0.099	23.00	-3.03
	256-QAM	3557.5	2.50	75 / 0	14.66	17.16	0.052	23.00	-5.84
		3560.0	2.50	1 / 99	19.50	22.00	0.158	23.00	-1.00
N	QPSK	3625.0	2.50	1 / 0	19.37	21.87	0.154	23.00	-1.13
H		3690.0	2.50	1 / 0	19.18	21.68	0.147	23.00	-1.32
20 MHz	16-QAM	3625.0	2.50	1 / 0	18.74	21.24	0.133	23.00	-1.76
~	64-QAM	3560.0	2.50	1 / 99	17.63	20.13	0.103	23.00	-2.87
	256-QAM	3560.0	2.50	1 / 99	15.13	17.63	0.058	23.00	-5.37

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

					PCC					SCC			ULCA					
Power State	Band	Bandwidth (PCC + SCC)	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency [MHz]	UL # RB	UL RB Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
				55340	3560.0	1	99		55457	3571.7	1	0	19.44	2.50	21.94	0.156	23.00	-1.06
			QPSK	55990	3625.0	1	99	QPSK	56107	3636.7	1	0	19.29	2.50	21.79	0.151	23.00	-1.21
				56640	3690.0	1	0		56523	3678.3	1	24	19.40	2.50	21.90	0.155	23.00	-1.10
Max	LTE B48	20MHz + 5MHz	QPSK	55340	3560	100	0	QPSK	55457	3571.7	25	0	17.66	2.50	20.16	0.104	23.00	-2.84
			16-QAM	55340	3560	100	0	16-QAM	55457	3571.7	25	0	16.56	2.50	19.06	0.081	23.00	-3.94
			64-QAM	55340	3560	100	0	64-QAM	55457	3571.7	25	0	16.67	2.50	19.17	0.083	23.00	-3.83
			256-QAM	55340	3560	100	0	256-QAM	55457	3571.7	25	0	14.54	2.50	17.04	0.051	23.00	-5.96
				55340	3560.0	1	99		55484	3574.4	1	0	19.23	2.50	21.73	0.149	23.00	-1.27
			QPSK	55990	3625.0	1	99	QPSK	56134	3639.4	1	0	19.22	2.50	21.72	0.149	23.00	-1.28
				56640	3690.0	1	0		56496	3675.6	1	49	19.22	2.50	21.72	0.149	23.00	-1.28
Max	LTE B48	20MHz + 10MHz	QPSK	55340	3560	100	0	QPSK	55484	3574.4	50	0	17.57	2.50	20.07	0.102	23.00	-2.93
			16-QAM	55340	3560	100	0	16-QAM	55484	3574.4	50	0	16.69	2.50	19.19	0.083	23.00	-3.81
			64-QAM	55340	3560	100	0	64-QAM	55484	3574.4	50	0	16.64	2.50	19.14	0.082	23.00	-3.86
			256-QAM	55340	3560	100	0	256-QAM	55484	3574.4	50	0	14.64	2.50	17.14	0.052	23.00	-5.86
				55340	3560.0	1	99		55511	3577.1	1	0	19.47	2.50	21.97	0.157	23.00	-1.03
			QPSK	55990	3625.0	1	99	QPSK	56161	3642.1	1	0	19.40	2.50	21.90	0.155	23.00	-1.10
				56640	3690.0	1	0		56469	3672.9	1	74	19.20	2.50	21.70	0.148	23.00	-1.30
Max	LTE B48	20MHz + 15MHz	QPSK	55340	3560	100	0	QPSK	55511	3577.1	75	0	17.50	2.50	20.00	0.100	23.00	-3.00
			16-QAM	55340	3560	100	0	16-QAM	55511	3577.1	75	0	16.65	2.50	19.15	0.082	23.00	-3.85
			64-QAM	55340	3560	100	0	64-QAM	55511	3577.1	75	0	16.60	2.50	19.10	0.081	23.00	-3.90
			256-QAM	55340	3560	100	0	256-QAM	55511	3577.1	75	0	14.61	2.50	17.11	0.051	23.00	-5.89
				55340	3560.0	1	99		55538	3579.8	1	0	19.32	2.50	21.82	0.152	23.00	-1.18
			QPSK	55990	3625.0	1	99	QPSK	56188	3644.8	1	0	19.27	2.50	21.77	0.150	23.00	-1.23
				56640	3690.0	1	0		56442	3670.2	1	99	19.47	2.50	21.97	0.157	23.00	-1.03
Max	LTE B48	20MHz + 20MHz	QPSK	56640	3690	100	0	QPSK	56442	3670.2	100	0	17.56	2.50	20.06	0.101	23.00	-2.94
			16-QAM	56640	3690	100	0	16-QAM	56442	3670.2	100	0	16.56	2.50	19.06	0.081	23.00	-3.94
			64-QAM	56640	3690	100	0	64-QAM	56442	3670.2	100	0	16.61	2.50	19.11	0.081	23.00	-3.89
			256-QAM	56640	3690	100	0	256-QAM	56442	3670.2	100	0	14.56	2.50	17.06	0.051	23.00	-5.94

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

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 67 of 86
1C2205090023-09-R1.BCG	5/30/2022-9/13/2022	Tablet Device	Fage 07 01 00
			V/2 1 11/9/2021



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]
		3552.5	0.20	1 / 0	21.20	21.40	0.138	23.00	-1.60
N	QPSK	3625.0	0.20	1 / 24	21.01	21.21	0.132	23.00	-1.79
Ë		3697.5	0.20	1 / 0	21.13	21.33	0.136	23.00	-1.67
5 MHz	16-QAM	3552.5	0.20	1 / 0	20.20	20.40	0.110	23.00	-2.60
-	64-QAM	3552.5	0.20	1 / 24	19.59	19.79	0.095	23.00	-3.21
	256-QAM	3552.5	0.20	1 / 24	16.50	16.70	0.047	23.00	-6.30
		3555.0	0.20	1 / 49	21.20	21.40	0.138	23.00	-1.60
N	QPSK	3625.0	0.20	1 / 49	20.96	21.16	0.131	23.00	-1.84
H		3695.0	0.20	1 / 49	21.08	21.28	0.134	23.00	-1.72
10 MHz	16-QAM	3695.0	0.20	1 / 49	20.20	20.40	0.110	23.00	-2.60
~	64-QAM	3555.0	0.20	1 / 49	19.19	19.39	0.087	23.00	-3.61
	256-QAM	3555.0	0.20	1 / 49	16.28	16.48	0.044	23.00	-6.52
		3557.5	0.20	1 / 74	21.13	21.33	0.136	23.00	-1.67
N	QPSK	3625.0	0.20	1 / 74	21.11	21.31	0.135	23.00	-1.69
15 MHz		3692.5	0.20	1 / 0	21.20	21.40	0.138	23.00	-1.60
5	16-QAM	3692.5	0.20	1 / 0	20.35	20.55	0.114	23.00	-2.45
~	64-QAM	3625.0	0.20	1 / 74	19.09	19.29	0.085	23.00	-3.71
	256-QAM	3692.5	0.20	1 / 74	16.31	16.51	0.045	23.00	-6.49
		3560.0	0.20	1 / 0	21.20	21.40	0.138	23.00	-1.60
N	QPSK	3625.0	0.20	1 / 99	21.14	21.34	0.136	23.00	-1.66
20 MHz		3690.0	0.20	1 / 99	21.15	21.35	0.136	23.00	-1.65
0	16-QAM	3625.0	0.20	1 / 99	20.45	20.65	0.116	23.00	-2.35
~	64-QAM	3560.0	0.20	1 / 0	19.30	19.50	0.089	23.00	-3.50
	256-QAM	3560.0	0.20	1 / 0	16.76	16.96	0.050	23.00	-6.04

Table 7-8. EIRP Data (LTE Band 48)

Image Image Modulation U.C. Phame Program Offset Power (min) Power (min) <th></th> <th></th> <th></th> <th></th> <th></th> <th>PCC</th> <th></th> <th></th> <th></th> <th></th> <th>SCC</th> <th></th> <th></th> <th>ULCA</th> <th></th> <th></th> <th></th> <th></th> <th></th>						PCC					SCC			ULCA					
Max LTE B48 QPSK 5590 325.0 1 99 QPSK 5607 368.7 1 0 21.30 0.20 21.50 0.141 23.00 Max LTE B48 20MHz + SMHz GPSK 56040 3980 100 0 GPSK 56023 307.83 1 2.4 21.39 0.20 19.90 0.088 23.00 16-QAM 56640 3980 100 0 16-QAM 56623 307.83 2.5 0 18.82 0.00 18.92 0.008 23.00 256-QAM 56640 3890 100 0 256-QAM 56523 367.83 2.5 0 16.89 0.20 18.82 0.076 23.00 256-QAM 56640 3890 100 0 256-QAM 56523 367.83 2.5 0 16.89 0.20 11.99 20.00 109 QPSK 553.00 380.0 100 0 456134 357.44	Power State	Band		Modulation	UL Channel	Frequency	UL # RB		Modulation	UL Channel	Frequency	UL # RB		Power					Margin [dB]
Max LTE B48 20Hitz + SHitz 58840 3880.0 1 0 58823 3878.3 1 2.4 21.39 0.20 21.59 0.144 23.00 Max LTE B48 20Hitz + SHitz 59840 3880 100 0 16-QAM 56840 3878.3 25 0 18.82 0.020 18.82 0.076 23.00 64-QAM 56840 3880 100 0 64-QAM 56862 3678.3 25 0 18.82 0.020 18.82 0.076 23.00 256-QAM 56840 3880 100 0 64-QAM 56823 3678.3 25 0 18.89 0.049 23.00 266-QAM 56840 3680.0 1 99 PFK 56844 357.4 1 0 21.49 0.20 21.69 0.44 23.00 266-QAM 55340 3560 100 0 QPSK 55484 357.4 50 0 18.4 <td></td> <td></td> <td></td> <td></td> <td>55340</td> <td>3560.0</td> <td>1</td> <td>99</td> <td></td> <td>55457</td> <td>3571.7</td> <td>1</td> <td>0</td> <td>21.25</td> <td>0.20</td> <td>21.45</td> <td>0.140</td> <td>23.00</td> <td>-1.55</td>					55340	3560.0	1	99		55457	3571.7	1	0	21.25	0.20	21.45	0.140	23.00	-1.55
Max LTE B48 20MHz + SMHz OPSK 56820 3678.3 25 0 19.70 0.20 19.90 0.008 23.00 16-QAM 56640 3980 100 0 16-QAM 56623 3678.3 25 0 18.82 0.20 18.82 0.076 23.00 256-QAM 56640 3890 100 0 64-QAM 56623 3678.3 25 0 18.82 0.20 18.82 0.076 23.00 256-QAM 56840 3890 100 0 64-QAM 56633 3678.3 25 0 16.89 0.20 16.89 0.098 23.00 10 256-QAM 55630 3670.0 1 99 05844 3574.4 1 0 21.42 0.20 21.62 0.145 23.00 16-QAM 55340 35800 100 0 16-QAM 55344 3574.4 50 0 18.61 0.20 18.71 0.76				QPSK	55990	3625.0	1	99	QPSK	56107	3636.7	1	0	21.30	0.20	21.50	0.141	23.00	-1.50
Max LTE B48 20MHz + 10MHz 56840 3890 100 0 18-0AM 56823 3678.3 25 0 18.82 0.076 23.00 Max LTE B48 20MHz + 10MHz 55340 3680.0 1 99 55484 3574.4 1 0 21.49 0.20 21.69 0.148 23.00 Max LTE B48 20MHz + 10MHz GPSK 55340 3580.0 1 99 GPSK 55144 1 0 21.49 0.20 21.48 0.148 23.00 Max LTE B48 20MHz + 10MHz GPSK 55340 3560 100 0 QPSK 55144 3574.4 50 0 18.61 0.20 18.81 0.076 23.00 16-DAM 55340 3560 100 0 46-DAM 55484 3574.4 50 0 18.61 0.20 18.70 0.076 23.00 256-OAM 55340 3580 100 0					56640	3690.0	1	0]	56523	3678.3	1	24	21.39	0.20	21.59	0.144	23.00	-1.41
Bit - QAM 56840 3890 100 0 64-QAM 56523 3878.3 25 0 18.58 0.20 18.78 0.076 23.00 256-QAM 56640 3690 100 0 256-QAM 56523 3678.3 25 0 16.69 0.049 23.00 QPSK 55990 3625.0 1 99 QPSK 5614 3639.4 1 0 21.49 0.20 21.44 0.139 23.00 Geode 3690.0 1 0 QPSK 55140 3560 100 0 QPSK 5614 363.4 1 0 21.42 0.20 21.44 0.139 23.00 16-DAM 55340 3560 100 0 16-QAM 5514 357.4 50 0 18.51 0.20 18.18 0.076 23.00 16-QAM 55340 3560 100 0 256-QAM 55144 357.4 50 18.51 0.20	Max	LTE B48	20MHz + 5MHz	QPSK	56640	3690	100	0	QPSK	56523	3678.3	25	0	19.70	0.20	19.90	0.098	23.00	-3.10
Image Image <th< td=""><td></td><td></td><td></td><td>16-QAM</td><td>56640</td><td>3690</td><td>100</td><td>0</td><td>16-QAM</td><td>56523</td><td>3678.3</td><td>25</td><td>0</td><td>18.62</td><td>0.20</td><td>18.82</td><td>0.076</td><td>23.00</td><td>-4.18</td></th<>				16-QAM	56640	3690	100	0	16-QAM	56523	3678.3	25	0	18.62	0.20	18.82	0.076	23.00	-4.18
Max LTE B48 20MHz + 10MHz 0 55990 3625 0 3625 0 1 99 0 99 0 0FSK 55484 56134 3574 4 1 0 0 21.42 0.20 21.89 0.148 23.00 Max LTE B48 20MHz + 10MHz 0 0 16-QAM 55390 100 0 0 9546 3875.6 1 49 21.42 0.20 21.48 0.096 23.00 16-QAM 55340 3560 100 0 0PSK 55484 3574.4 50 0 19.84 0.096 23.00 26-QAM 55340 3560 100 0 04-QAM 55484 3574.4 50 0 18.61 0.20 18.81 0.076 23.00 26-QAM 55340 3560 100 0 64-QAM 55484 3574.4 50 0 16.50 0.20 16.70 0.047 23.00 26-QAM 55340 3560 100 0 256-QAM 555511 3571.4 50 <			[64-QAM	56640	3690	100	0	64-QAM	56523	3678.3	25	0	18.58	0.20	18.78	0.076	23.00	-4.22
Max LTE B48 20MHz + 10MHz 55990 3825 0 1 99 QPSK 56134 3839.4 1 0 21.24 0.20 21.44 0.139 23.00 Max LTE B48 20MHz + 10MHz QPSK 55340 3560 100 0 QPSK 55444 357.6 1 49 21.42 0.20 21.84 0.016 23.00 16-QAM 55340 3560 100 0 16-QAM 55484 357.4 50 0 18.61 0.20 18.81 0.076 23.00 64-QAM 55340 3560 100 0 45-QAM 55484 357.4 50 0 18.52 0.20 18.72 0.074 23.00 64-QAM 55340 3560 10 0 256-QAM 55511 357.1 1 0 21.21 0.20 21.61 0.145 23.00 10 QPSK 55990 3825 10 0 QPSK				256-QAM	56640	3690	100	0	256-QAM	56523	3678.3	25	0	16.69	0.20	16.89	0.049	23.00	-6.11
Max LTE B48 20MHz + 10MHz 58840 3880.0 1 0 56486 3675.6 1 49 21.42 0.20 21.62 0.145 23.00 Max LTE B48 20MHz + 10MHz GPSK 55340 3560 100 0 QPSK 55484 3574.4 50 0 19.84 0.096 23.00 64-QAM 55340 3560 100 0 16-QAM 55484 3574.4 50 0 18.61 0.20 18.81 0.076 23.00 286-QAM 55340 3560 100 0 256-QAM 55484 3574.4 50 0 18.52 0.20 18.72 0.074 23.00 286-QAM 55340 3560.0 1 99 975K 56161 3842.1 1 0 21.21 0.20 18.74 0.30 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00					55340	3560.0	1	99		55484	3574.4	1	0	21.49	0.20	21.69	0.148	23.00	-1.31
Max LTE B48 20MHz + 10MHz QPSK 55340 3600 100 0 QPSK 55444 3574.4 50 0 19.64 0.20 19.84 0.096 23.00 16-QAM 55340 3560 100 0 16-QAM 55484 3574.4 50 0 18.81 0.076 23.00 286-QAM 55340 3560 100 0 64-QAM 55484 3574.4 50 0 18.81 0.076 23.00 286-QAM 55340 3560 100 0 256-QAM 55484 3574.4 50 0 18.81 0.076 23.00 286-QAM 55340 3560 10 0 256-QAM 55484 3574.4 50 0 18.50 0.20 18.70 0.047 23.00 286-QAM 56840 3690.0 1 99 QPSK 56161 3642.1 1 0 21.41 0.20 21.61 0.145 23.00				QPSK	55990	3625.0	1	99	QPSK	56134	3639.4	1	0	21.24	0.20	21.44	0.139	23.00	-1.56
Max LTE B48 20MHz + 20MHz 55340 3560 100 0 18-QAM 55440 3574.4 50 0 18.61 0.20 18.81 0.076 23.00 64-QAM 55340 3560 100 0 64-QAM 55444 3574.4 50 0 18.52 0.20 18.72 0.074 23.00 Max LTE B48 A 55340 3560 100 0 256-QAM 55511 3577.1 1 0 21.21 0.20 18.70 0.047 23.00 Max LTE B48 20MHz + 15MHz					56640	3690.0	1	0	1	56496	3675.6	1	49	21.42	0.20	21.62	0.145	23.00	-1.38
Bit Data 68-DAM 55340 3580 100 0 64-DAM 5544 35744 50 0 18.52 0.20 18.72 0.074 23.00 256-DAM 55340 3560 100 0 256-DAM 55484 35744 50 0 16.50 0.20 16.70 0.047 23.00 Max LTE B48 20MHz + 15MHz OPSK 5590 3825 1 99 OPSK 56161 387.1 1 0 21.21 0.20 21.41 0.145 23.00 Max LTE B48 20MHz + 15MHz OPSK 55990 3825 100 0 OPSK 56161 38421 1 0 21.41 0.20 21.55 0.143 23.00 16-0AM 55990 3825 100 0 OPSK 56161 38421 75 0 18.54 0.20 18.74 0.075 23.00 16-0AM 55990 3825 100 0	Max	Max LTE B48 20MHz + 10	20MHz + 10MHz	QPSK	55340	3560	100	0	QPSK	55484	3574.4	50	0	19.64	0.20	19.84	0.096	23.00	-3.16
Max LTE B48 20MHz + 15MHz 55340 3560 100 0 256-QAM 55484 3574.4 50 0 16.50 0.20 16.70 0.047 23.00 Max LTE B48 20MHz + 15MHz 55340 3660.0 1 99 QFSK 55111 3577.1 1 0 21.21 0.20 21.61 0.145 23.00 Max LTE B48 20MHz + 15MHz QPSK 55900 3825 100 0 QPSK 56161 3842.1 1 0 21.41 0.20 21.61 0.145 23.00 16-QAM 55990 3825 100 0 QPSK 56161 3842.1 75 0 19.57 0.20 18.79 0.076 23.00 16-QAM 55990 3825 100 0 16-QAM 56161 3842.1 75 0 18.54 0.20 18.74 0.076 23.00 256-QAM 55990 3825 100 <				16-QAM	55340	3560	100	0	16-QAM	55484	3574.4	50	0	18.61	0.20	18.81	0.076	23.00	-4.19
Max LTE B48 ZMHz + 15MHz S5340 3560.0 1 99 QPSK 55511 3577.1 1 0 21.21 0.20 21.41 0.138 23.00 Max LTE B48 20MHz + 15MHz GPSK 55990 3825 100 0 QPSK 56161 3642.1 1 0 21.41 0.138 23.00 Max LTE B48 20MHz + 15MHz QPSK 55990 3825 100 0 QPSK 56161 3642.1 75 0 19.57 0.20 21.81 0.076 23.00 16-QAM 55990 3825 100 0 16-QAM 56161 3842.1 75 0 18.59 0.20 18.79 0.076 23.00 280-QAM 55990 3825 100 0 256-QAM 56161 3842.1 75 0 18.54 0.20 18.74 0.076 23.00 280-QAM 55990 3825 100 0 2				64-QAM	55340	3560	100	0	64-QAM	55484	3574.4	50	0	18.52	0.20	18.72	0.074	23.00	-4.28
Max LTE B48 20MHz + 15MHz 55990 3825 1 99 QPSK 56181 3842.1 1 0 21.41 0.20 21.61 0.145 23.00 Max LTE B48 20MHz + 15MHz QPSK 55990 3825 100 0 QPSK 56161 3842.1 1 0 21.41 0.20 21.65 0.143 23.00 16-QAM 55990 3825 100 0 QPSK 56161 3842.1 75 0 18.58 0.20 18.79 0.076 23.00 64-QAM 55990 3825 100 0 16-QAM 56161 3842.1 75 0 18.54 0.20 18.74 0.075 23.00 64-QAM 55990 3825 100 0 0 64-QAM 56161 3842.1 75 0 18.54 0.20 18.74 0.075 23.00 5564.04 55990 3825.0 1 99 21.55				256-QAM	55340	3560	100	0	256-QAM	55484	3574.4	50	0	16.50	0.20	16.70	0.047	23.00	-6.30
Max LTE B48 20MHz + 15MHz 56840 3690.0 1 0 56469 3672.9 1 74 21.35 0.20 21.55 0.143 23.00 Max LTE B48 20MHz + 15MHz GPSK 55990 3625 100 0 QPSK 56161 3842.1 75 0 19.57 0.20 19.77 0.095 23.00 16-QAM 55990 3625 100 0 16-QAM 56161 3842.1 75 0 18.59 0.20 18.79 0.076 23.00 266-QAM 55990 3625 100 0 64-QAM 56161 3842.1 75 0 16.54 0.20 16.71 0.047 23.00 256-QAM 55990 3625 100 0 256-QAM 56161 3842.1 75 0 16.54 0.20 16.71 0.047 23.00 256-QAM 55990 3625.0 1 99 255.38 379.8					55340	3560.0	1			55511	3577.1	1	0	21.21	0.20	21.41	0.138	23.00	-1.59
Max LTE B48 20MHz + 15MHz QPSK 55990 3825 100 0 QPSK 56181 3842.1 75 0 19.57 0.20 19.77 0.095 23.00 16-QAM 55990 3825 100 0 16-QAM 56161 3842.1 75 0 18.59 0.20 18.79 0.076 23.00 64-QAM 55990 3825 100 0 16-QAM 56161 3842.1 75 0 18.54 0.20 18.74 0.076 23.00 286-QAM 55990 3825 100 0 256-QAM 56161 3842.1 75 0 18.54 0.20 18.74 0.076 23.00 286-QAM 55990 3825 100 0 256-QAM 56181 3842.1 75 0 16.51 0.20 16.71 0.047 23.00 56840 3690.0 1 99 21.33 56188 3844.8 10 21.43				QPSK	55990	3625.0	1		QPSK	56161	3642.1	1	0		0.20		0.145		-1.39
In-QAM 55990 3825 100 0 16-QAM 56181 3642.1 75 0 18.59 0.20 18.79 0.076 23.00 64-QAM 55990 3625 100 0 64-QAM 56161 3642.1 75 0 18.59 0.20 18.79 0.076 23.00 26-6AM 55990 3625 100 0 25.00AM 56161 3642.1 75 0 18.54 0.20 18.74 0.075 23.00 26-6AM 55990 3625 100 0 25.00AM 56161 3642.1 75 0 16.51 0.20 18.74 0.075 23.00 Max QPSK 5590 3620.0 1 99 27.83 0.20 21.43 0.139 23.00 56960 3680.0 1 0 21.49 0.20 21.69 0.148 23.00 56960 3680.0 1 0 21.69 0.148 23.					56640	3690.0	1	0		56469	3672.9	1	74	21.35	0.20	21.55	0.143	23.00	-1.45
Max LTE 648 20MHz + 20MHz 20MHz + 20MHz 55990 3825 100 0 64-QAM 56161 3642.1 75 0 18.54 0.20 18.74 0.075 23.00 256-QAM 55990 3825 100 0 256-QAM 56161 3642.1 75 0 16.51 0.20 16.71 0.047 23.00 Max LTE 648 20MHz + 20MHz 3680.0 1 99 QPSK 55538 3579.8 1 0 21.43 0.20 21.43 0.139 23.00 Max LTE 648 20MHz + 20MHz QPSK 55990 3825.0 1 99 QPSK 55188 3579.8 1 0 21.49 0.139 23.00 Max LTE 648 20MHz + 20MHz QPSK 55990 3825.0 1 99 QPSK 56188 3644.8 100 0 19.76 0.005 23.00 Max 100 QPSK 55990 3825	Max	LTE B48	20MHz + 15MHz	QPSK	55990	3625	100	0	QPSK	56161	3642.1		0				0.095	23.00	-3.23
Max LTE B48 20MHz + 20MHz QPSK 55990 3825 100 0 286-QAM 56161 3842.1 75 0 16.51 0.20 16.71 0.047 23.00 Max LTE B48 QPSK 55990 3825.0 1 99 21.43 0.139 23.00 Max LTE B48 20MHz + 20MHz QPSK 55990 3825.0 1 99 21.49 0.20 21.43 0.139 23.00 Max LTE B48 QPSK 55990 3825.0 1 99 21.49 0.20 21.49 0.10 23.00 Max LTE B48 QPSK 55990 3825.0 10 0 QPSK 56188 3844.8 100 0 19.76 0.005 23.00 16-QAM 55990 3825 100 0 16-QAM 56188 3844.8 100 0 18.89 0.00 18.89 0.20 18.89 0.07 23.00													0						-4.21
Max LTE B48 20MHz + 20MHz 55340 35600 1 99 QPSK 55538 3579.8 1 0 21.23 0.20 21.43 0.139 23.00 Max LTE B48 20MHz + 20MHz QQPSK 55990 3625.0 1 99 QPSK 56188 3844.8 1 0 21.43 0.139 23.00 Max 20MHz + 20MHz QQPSK 55990 3625 100 0 QPSK 56188 3644.8 100 0 19.56 0.20 21.47 0.140 23.00 He QPSK 55990 3625 100 0 QPSK 56188 3644.8 100 0 19.56 0.20 19.76 0.095 23.00 He G4-QAM 55990 3625 100 0 164QAM 56188 3644.8 100 0 18.59 0.20 18.79 0.077 23.00														-					-4.26
Max LTE B48 20MHz + 20MHz 03650 1 99 QPSK 56188 3644.8 1 0 21.49 0.20 21.89 0.148 23.00 Max LTE B48 20MHz + 20MHz QPSK 55990 3825 100 0 QPSK 56188 3644.8 1 0 21.49 0.20 21.47 0.140 23.00 Max QPSK 55990 3825 100 0 QPSK 56188 3644.8 100 0 19.56 0.20 19.76 0.095 23.00 Ho-QAM 55990 3825 100 0 162.0M 56188 3644.8 100 0 18.59 0.20 18.78 0.095 23.00 Ho-QAM 55990 3825 100 0 162.0M 56188 3644.8 100 0 18.59 0.20 18.79 0.20 18.71 0.074 23.00				256-QAM	55990		100	0	256-QAM			75	0						-6.29
Max LTE B48 20MHz + 20MHz 56640 3880.0 1 0 56442 3670.2 1 99 21.27 0.20 21.47 0.140 23.00 Max LTE B48 20MHz + 20MHz GPSK 55990 3625 100 0 QPSK 56188 3644.8 100 0 19.76 0.095 23.00 16-QAM 55990 3625 100 0 18-QAM 56188 3844.8 100 0 18.89 0.095 23.00 46-QAM 55990 3625 100 0 68188 3844.8 100 0 18.89 0.077 23.00							1					1	0						-1.57
Max LTE B48 20MHz + 20MHz QPSK 55990 3825 100 0 QPSK 56188 364.4.8 100 0 19.56 0.20 19.76 0.095 23.00 16-QAM 55990 3825 100 0 16-QAM 56188 364.4.8 100 0 18.89 0.077 23.00 64-QAM 55990 3625 100 0 64-QAM 56188 364.4.8 100 0 18.89 0.077 23.00				QPSK			1	99	QPSK			1	-				0.148		-1.31
16-QAM 55990 3825 100 0 16-QAM 56188 3644.8 100 0 18.69 0.20 18.89 0.077 23.00 64-QAM 55990 3625 100 0 64-QAM 56188 3644.8 100 0 18.51 0.20 18.71 0.074 23.00											1							-1.53	
64-QAM 55990 3825 100 0 64-QAM 56188 3644.8 100 0 18.51 0.20 18.71 0.074 23.00	Max	LTE B48	20MHz + 20MHz																-3.24
																			-4.11
																			-4.29
256-QAM 55990 3625 100 0 256-QAM 56188 3644.8 100 0 16.56 0.20 16.76 0.047 23.00				256-QAM	55990	3625	100	0	256-QAM	56188	3644.8	100	0	16.56	0.20	16.76	0.047	23.00	-6.24

Table 7-9. EIRP Data (ULCA 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 hybrid 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 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points > 2 x 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

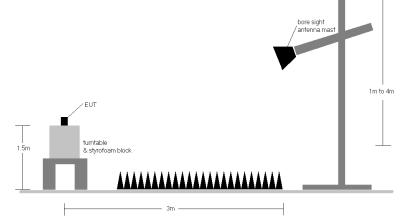
using triggering/gating and trace averaging.)

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 7-6. Test Instrument & Measurement Setup

Test Notes

- 1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b. EIRP (dBm) = E(dB μ V/m) + 20logD 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. This unit was tested with its standard battery.
- 4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5. 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.
- 6. The "-" shown in the following RSE tables are used to denote a noise floor 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. For LTE Band 48 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.
- 9. 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

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7.7.1 Antenna 3b Radiated Spurious Emissions Measurements

LTE Band 48

20
3560.0
QPSK
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	-	-	-80.04	10.75	37.71	-57.55	-40.00	-17.55
10680.0	V	-	-	-82.20	15.79	40.59	-54.67	-40.00	-14.67
14240.0	V	-	-	-80.79	18.48	44.69	-50.57	-40.00	-10.57

Table 7-10. 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	-	-	-79.91	11.59	38.68	-56.57	-40.00	-16.57
10875.0	V	-	-	-81.18	15.46	41.28	-53.98	-40.00	-13.98
14500.0	V	-	-	-80.54	20.16	46.62	-48.63	-40.00	-8.63

Table 7-11. 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	-	-	-79.98	10.90	37.92	-57.34	-40.00	-17.34
11070.0	V	-	-	-82.13	15.98	40.85	-54.41	-40.00	-14.41
14760.0	V	-	-	-82.32	20.78	45.46	-49.79	-40.00	-9.79

Table 7-12. Radiated Spurious Data (LTE Band 48 – High Channel)

FCC ID: BCGA2757	element)	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager	
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			V/2 1 11/9/2021	



ULCA 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	-	-	-79.65	8.93	36.28	-58.98	-40.00	-18.98
10680.0	V	-	-	-83.30	14.88	38.58	-56.68	-40.00	-16.68
14240.0	V	-	-	-83.87	19.01	42.14	-53.12	-40.00	-13.12

Table 7-13. Radiated Spurious Data (ULCA 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	-	-	-79.82	8.96	36.14	-59.12	-40.00	-19.12
10875.0	V	-	-	-83.37	15.24	38.87	-56.39	-40.00	-16.39
14500.0	V	-	-	-83.95	19.82	42.87	-52.39	-40.00	-12.39

Table 7-14. Radiated Spurious Data (ULCA 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	-	-	-79.81	9.33	36.52	-58.74	-40.00	-18.74
11070.0	V	-	-	-83.34	15.87	39.53	-55.73	-40.00	-15.73
14760.0	V	-	-	-83.79	20.82	44.03	-51.23	-40.00	-11.23

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

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.2 Antenna 2a 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	Н	-	-	-80.08	10.75	37.67	-57.59	-40.00	-17.59
10680.0	Н	-	-	-82.20	15.79	40.59	-54.67	-40.00	-14.67
14240.0	Н	-	-	-80.53	18.48	44.95	-50.31	-40.00	-10.31

Table 7-16. 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	Н	-	-	-80.34	11.59	38.25	-57.00	-40.00	-17.00
10875.0	Н	-	-	-81.65	15.46	40.81	-54.45	-40.00	-14.45
14500.0	Н	-	-	-81.38	20.16	45.78	-49.47	-40.00	-9.47

Table 7-17. 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	Н	-	-	-80.09	10.90	37.81	-57.45	-40.00	-17.45
11070.0	Н	-	-	-82.15	15.98	40.83	-54.43	-40.00	-14.43
14760.0	Н	-	-	-82.24	20.78	45.54	-49.71	-40.00	-9.71

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

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA 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	Н	-	-	-79.89	8.93	36.04	-59.22	-40.00	-19.22
10680.0	Н	-	-	-83.35	14.88	38.53	-56.73	-40.00	-16.73
14240.0	Н	-	-	-83.95	19.01	42.06	-53.20	-40.00	-13.20

Table 7-19. Radiated Spurious Data (ULCA 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	Н	-	-	-79.81	8.96	36.15	-59.11	-40.00	-19.11
10875.0	Н	-	-	-83.39	15.24	38.85	-56.41	-40.00	-16.41
14500.0	Н	-	-	-83.88	19.82	42.94	-52.32	-40.00	-12.32

Table 7-20. Radiated Spurious Data (ULCA 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	Н	-	-	-79.80	9.33	36.53	-58.73	-40.00	-18.73
11070.0	Н	-	-	-83.42	15.87	39.45	-55.81	-40.00	-15.81
14760.0	Н	-	-	-83.84	20.82	43.98	-51.28	-40.00	-11.28

Table 7-21. Radiated Spurious Data (ULCA Band 48– High Channel)

FCC ID: BCGA2757	element)	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 74 of 86	
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			\/2 1 11/9/2021	



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	Н	-	-	-80.28	10.75	37.47	-57.79	-40.00	-17.79
10680.0	Н	-	-	-82.21	15.79	40.58	-54.68	-40.00	-14.68
14240.0	Н	-	-	-80.72	18.48	44.76	-50.50	-40.00	-10.50

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	Н	-	-	-80.45	11.59	38.14	-57.11	-40.00	-17.11
10875.0	Н	-	-	-81.45	15.46	41.01	-54.25	-40.00	-14.25
14500.0	Н	-	-	-81.32	20.16	45.84	-49.41	-40.00	-9.41

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	Н	-	-	-80.14	10.90	37.76	-57.50	-40.00	-17.50
11070.0	Н	-	-	-81.74	15.98	41.24	-54.02	-40.00	-14.02
14760.0	Н	-	-	-82.28	20.78	45.50	-49.75	-40.00	-9.75

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

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 75 of 96
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ULCA Band 48

Sample #:	
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	Н	-	-	-79.86	8.93	36.07	-59.19	-40.00	-19.19
10680.0	Н	-	-	-83.49	14.88	38.39	-56.87	-40.00	-16.87
14240.0	Н	-	-	-83.71	19.01	42.30	-52.96	-40.00	-12.96

Table 7-25. Radiated Spurious Data (ULCA 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	Н	-	-	-80.37	11.60	38.23	-57.03	-40.00	-17.03
10875.0	Н	-	-	-81.78	15.45	40.67	-54.59	-40.00	-14.59
14500.0	Н	-	-	-81.54	20.17	45.63	-49.63	-40.00	-9.63

Table 7-26. Radiated Spurious Data (ULCA 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

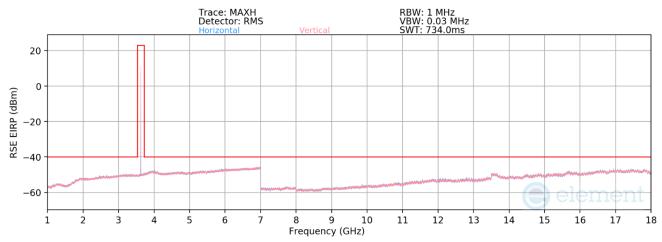
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	Н	-	-	-80.04	10.90	37.86	-57.40	-40.00	-17.40
11070.0	Н	-	-	-82.15	15.98	40.83	-54.43	-40.00	-14.43
14760.0	Н	-	-	-82.06	20.78	45.72	-49.54	-40.00	-9.54

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

FCC ID: BCGA2757	element)	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 76 of 86
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Antenna 1a Radiated Spurious Emissions Measurements 7.7.4

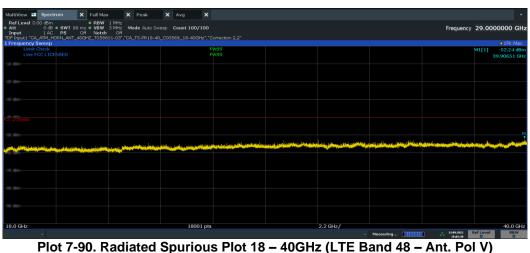


LTE Band 48



MultiView 🎫 Spectr			X Avg X						•
RefLevel 0.00 dBm Att 0 dB Input 1 AC	SWT 88 ms VBW PS Off Notch	3 MHz Mode Auto Sw	reep Count 100/100					Frequency	29.0000000 GHz
TDF Input1 "CA_ATM_HO I Frequency Sweep	ORN_ANT_40GHZ_T0586	501-03","CA_TS-PR18-40	_C00568_18-40GHz","C	orrection 2,2"					• 1Pk Max
Limit Check Line FCC LICE	NSED			ASS ASS					M1[1] -53.04 dBm 39.85395 GHz
فالمعاقلة فالمقاورة والأطرين والم	a president statements and the	ويردون أحضابه وانتر وانتر اعتراده	والمرافق والمتحافظ والمتحافظ والمتحافظ	فتعاجزه فالمعام والمراجع فأحاصه والم	وبعاله العبيد فأقباط وارتهما	فيدد فالالتوب وفقاروه المانتي والغ	الفصالا ورساده والمعادين فالأفر المال	فاعمر وقو فالقاط فيرجا والمعافظ	التجفيا والمشير والمفضي والمفض والمعاد
20 dBm-									
8.0 GHz			18001 pts			2.2 GHz/			40.0 GHz
							Measuring	13,09,2022	Ref Level RBW

Plot 7-89. Radiated Spurious Plot 18 – 40GHz (LTE Band 48 – Ant. Pol H)



FCC ID: BCGA2757	element	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	-	-	-	-79.75	10.75	38.00	-57.26	-40.00	-17.26
10680.0	-	-	-	-81.41	15.79	41.38	-53.88	-40.00	-13.88
14240.0	-	-	-	-80.00	18.48	45.48	-49.78	-40.00	-9.78

Table 7-28. 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	-	-	-	-80.14	11.59	38.45	-56.80	-40.00	-16.80
10875.0	-	-	-	-81.30	15.46	41.16	-54.10	-40.00	-14.10
14500.0	-	-	-	-80.82	20.16	46.34	-48.91	-40.00	-8.91

Table 7-29. Radiated Spurious Data (LTE Band 48 – Mid Channel)

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

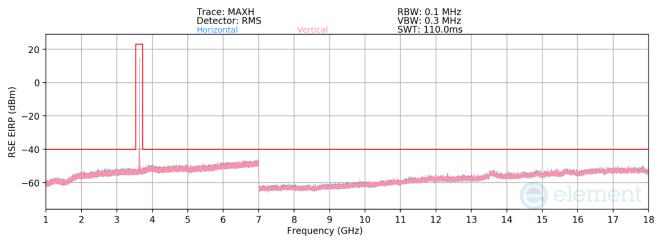
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7380.0	-	-	-	-79.65	10.90	38.25	-57.01	-40.00	-17.01
11070.0	-	-	-	-81.36	15.98	41.62	-53.64	-40.00	-13.64
14760.0	-	-	-	-81.69	20.78	46.09	-49.16	-40.00	-9.16

Table 7-30. Radiated Spurious Data (LTE Band 48 – High Channel)

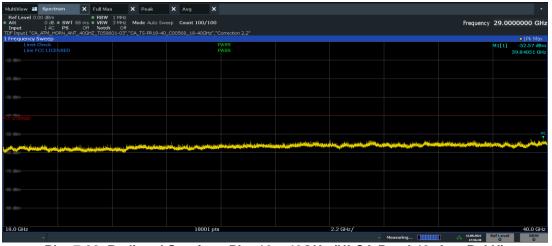
FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 78 of 86	
1C2205090023-09-R1.BCG	5/30/2022-9/13/2022	Tablet Device	raye 10 01 00	
			\/2 1 11/0/2021	



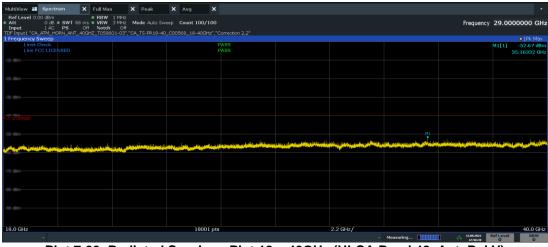
ULCA Band 48



Plot 7-91. Radiated Spurious Plot 1 – 18GHz (ULCA Band 48)



Plot 7-92. Radiated Spurious Plot 18 – 40GHz (ULCA Band 48, Ant. Pol H)



Plot 7-93. Radiated Spurious Plot 18 – 40GHz (ULCA Band 48, Ant. Pol V)

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 79 of 86
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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	V	-	-	-78.93	8.93	37.00	-58.26	-40.00	-18.26
10680.0	V	-	-	-82.43	14.88	39.45	-55.81	-40.00	-15.81
14240.0	V	-	-	-82.20	19.01	43.81	-51.45	-40.00	-11.45

Table 7-31. Radiated Spurious Data (ULCA 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	-	-	-79.04	8.96	36.92	-58.34	-40.00	-18.34
10875.0	V	-	-	-82.39	15.24	39.85	-55.41	-40.00	-15.41
14500.0	V	-	-	-82.69	19.82	44.13	-51.13	-40.00	-11.13

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

width (MHz): 20
ency (MHz): 3690.0
0ffset: 1/99
width (MHz): 20
ency (MHz): 3670.2
0ffset: 1/0
n Signal: QPSK
I Signal: QPS

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	-	-	-78.96	9.33	37.37	-57.89	-40.00	-17.89
11070.0	V	-	-	-82.32	15.87	40.55	-54.71	-40.00	-14.71
14760.0	V	-	-	-83.53	20.82	44.29	-50.97	-40.00	-10.97

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

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 80 of 86
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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

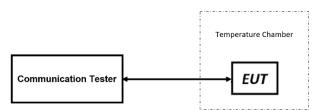


Figure 7-7. Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA2757	element)	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 81 of 86
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			\/2 1 11/0/2021



Frequency Stability / Temperature Variation

LTE Band	1 48						
	Low Ch	nannel Frequenc	cy (Hz):		3,560,000,000		7
	High Cl	hannel Frequen	cy (Hz):		3,690,000,000		
	Re	ef. Voltage (VD0	C):		3.8		
							-
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
		- 30	3,560,000,031	3,560,000,032	16	17	0.00000478
		- 20	3,560,000,029	3,560,000,025	14	10	0.00000393
		- 10	3,560,000,032	3,560,000,027	17	12	0.00000478
		0	3,560,000,032	3,560,000,035	17	20	0.00000562
100 %	3.80	+ 10	3,560,000,035	3,560,000,029	20	14	0.00000562
		+ 20 (Ref)	3,560,000,015	3,560,000,015	0	0	0.00000000
		+ 30	3,560,000,029	3,560,000,035	14	20	0.00000562
		+ 40	3,560,000,030	3,560,000,028	15	13	0.00000421
		+ 50	3,560,000,025	3,560,000,024	10	9	0.00000281
Battery Endpoint	3.23	+ 20	3,560,000,034	3,560,000,033	19	18	0.00000534

Table 7-34. LTE Band 48 Frequency Stability Data

FCC ID: BCGA2757	element)	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 82 of 86
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			V2 1 11/9/2021



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 CBSD (Ruckus FCC ID: S9GQ910US00) 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 3685MHz 3695MHz.
 - b. Enable AP service from Ruckus Cloud management.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Ruckus Cloud management 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 Ruckus Cloud management.
 - c. Check EUT Tx frequency.
 - d. Disable AP service from Ruckus Cloud management and check EUT stop transmission within 10s.

Test Notes

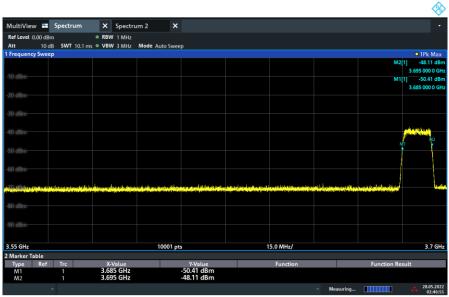
The EUT is an End User Device.

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 83 of 86
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Run#1:

- Tx Frequency Set: 3685 3695MHz
- MaxEIRP Set: 10dBm/MHz



02:46:56 28.05.2022





03:02:58 28.05.2022



Note:

Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation.

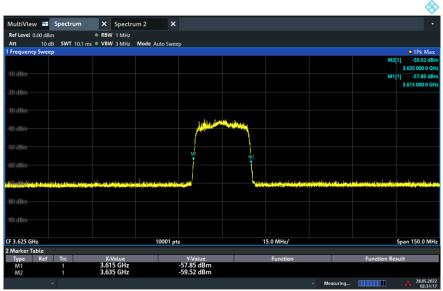
Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

FCC ID: BCGA2757	element)	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 84 of 86
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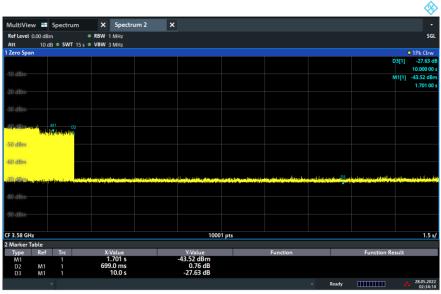
Run#2:

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



02:31:18 28.05.2022

Plot 7-96. Run#2 End User Device Frequency of Operations



02:34:15 28.05.2022



Note:

Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

FCC ID: BCGA2757	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 85 of 86
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Devices FCC ID: BCGA2757** complies with all of the End User Device requirements of Part 96 of the FCC Rules for LTE operation only.

FCC ID: BCGA2757	element)	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 86 of 86
1C2205090023-09-R1.BCG	5/30/2022-9/13/2022	Tablet Device	Fage of of of
			V2.1 11/9/2021