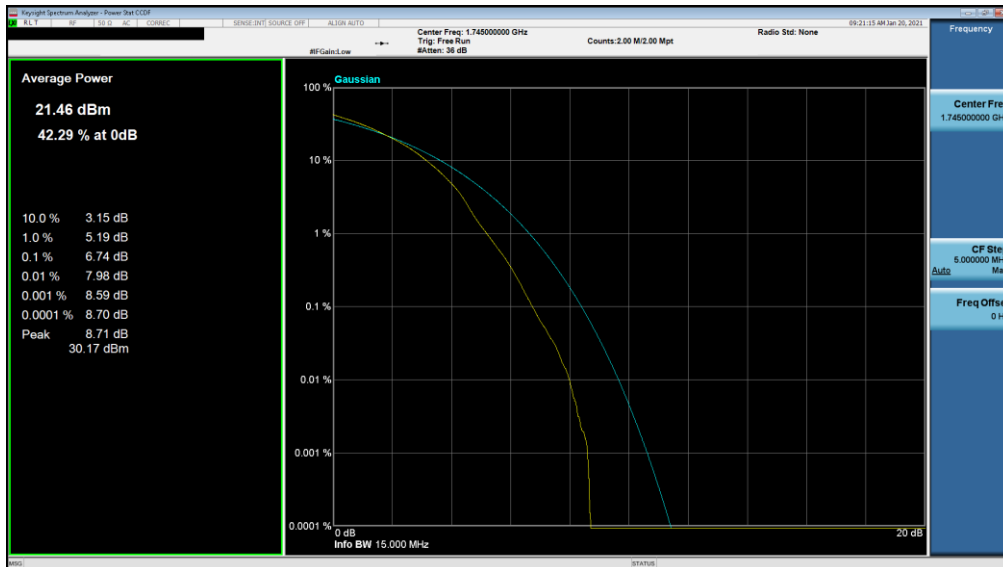
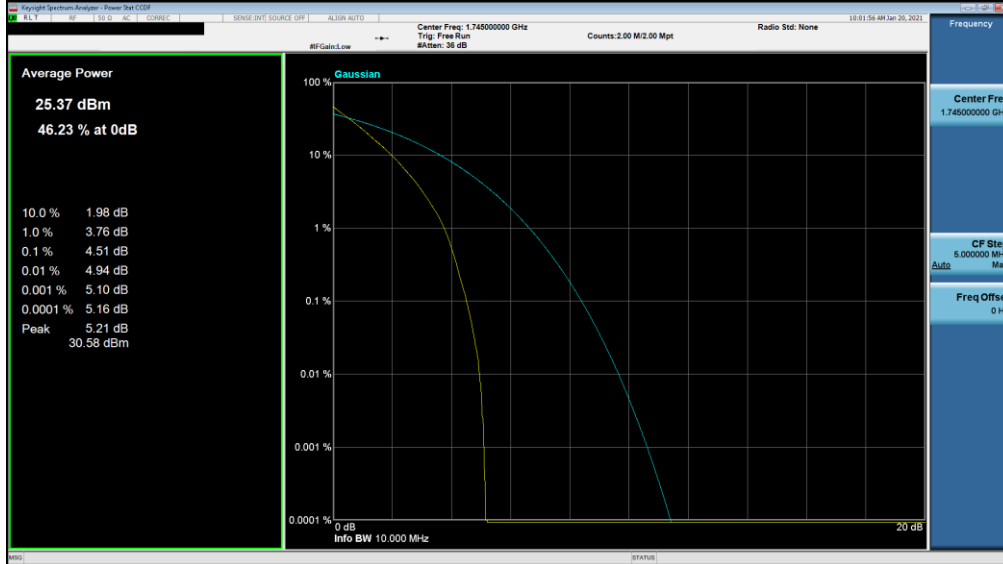


Plot 7-353. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

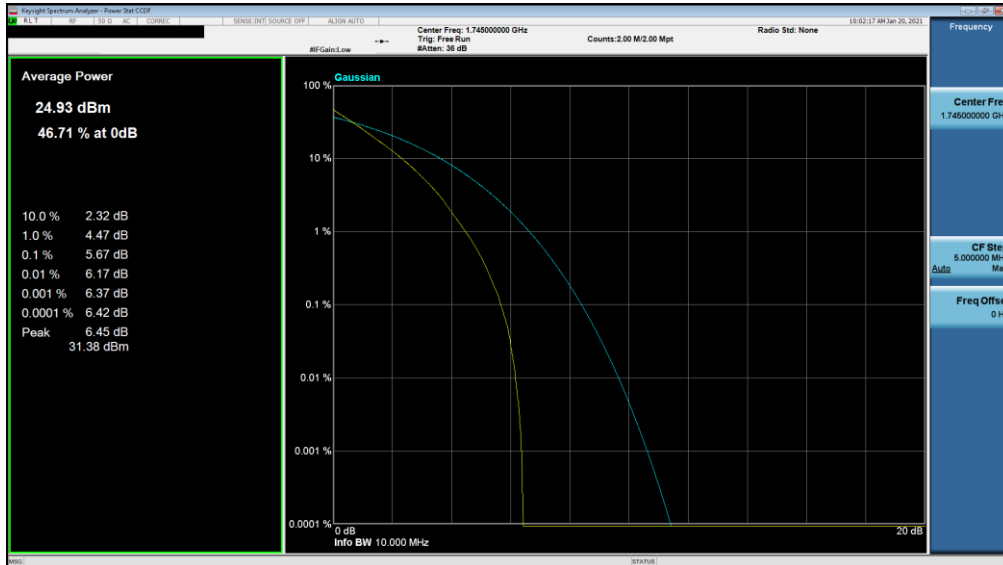


Plot 7-354. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 202 of 270

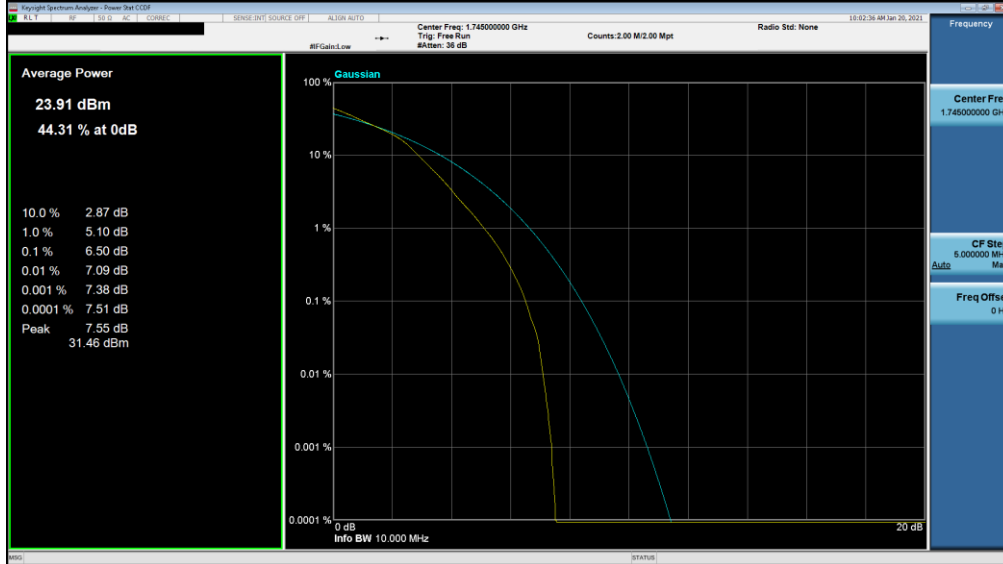


Plot 7-355. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

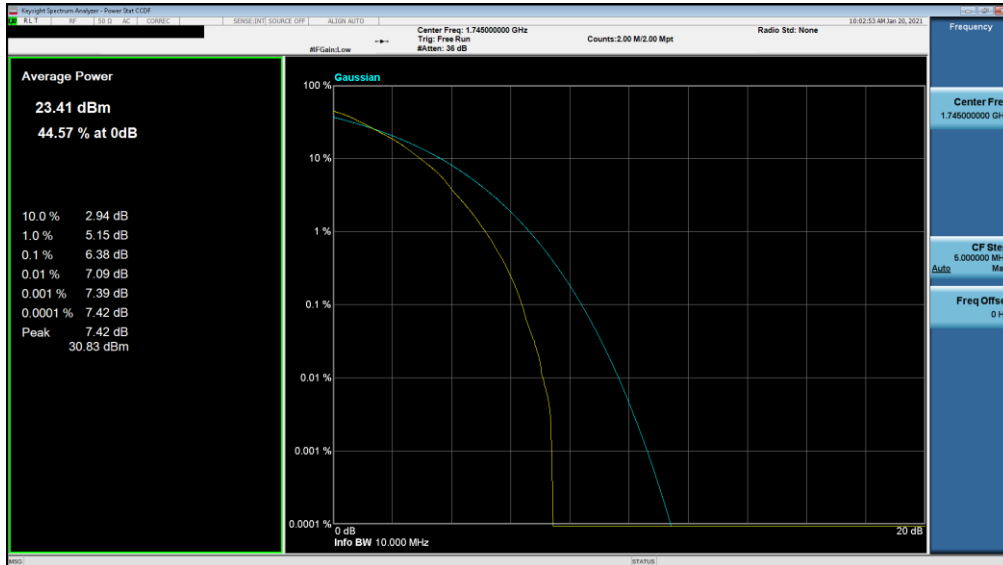


Plot 7-356. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 203 of 270

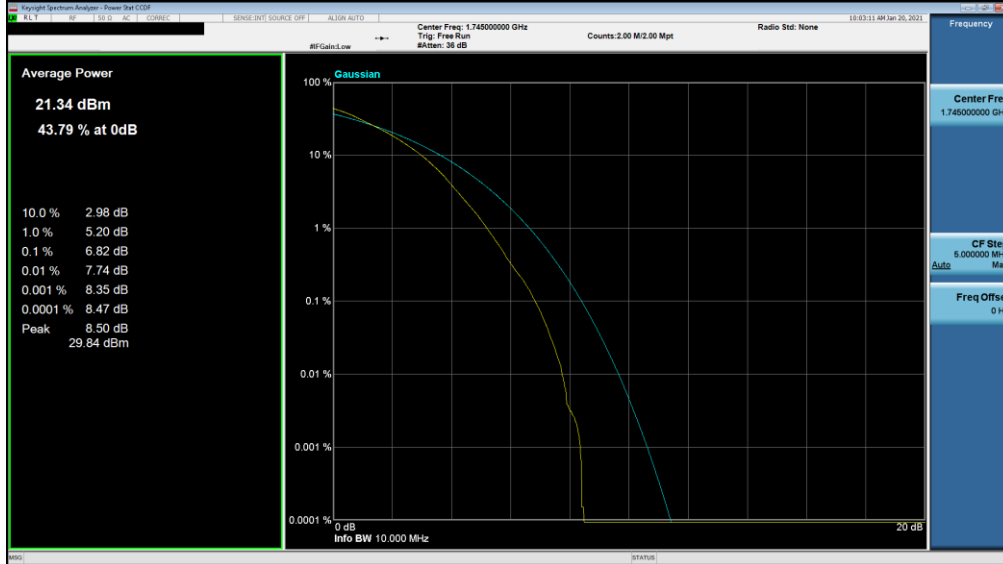


Plot 7-357. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

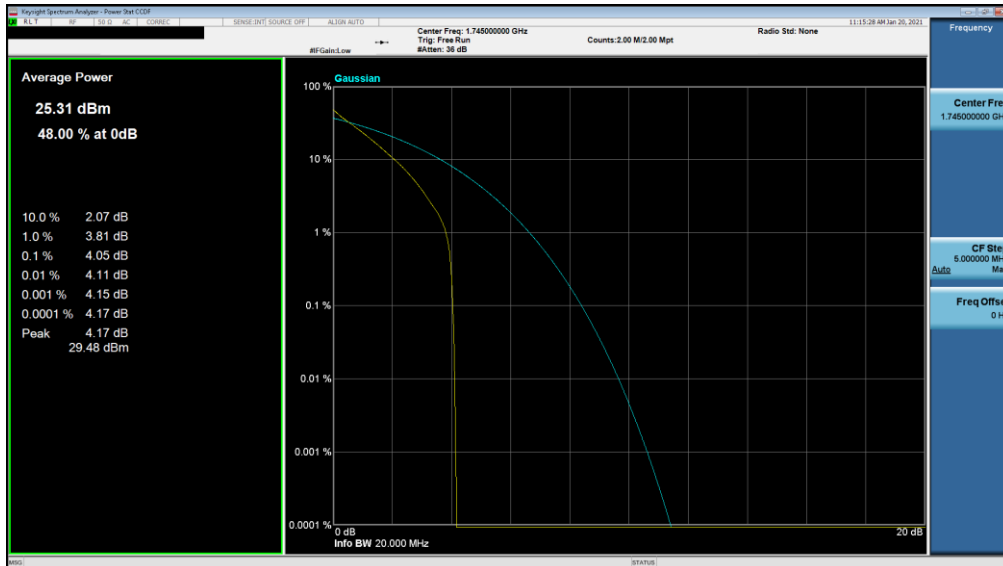


Plot 7-358. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)



FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 204 of 270

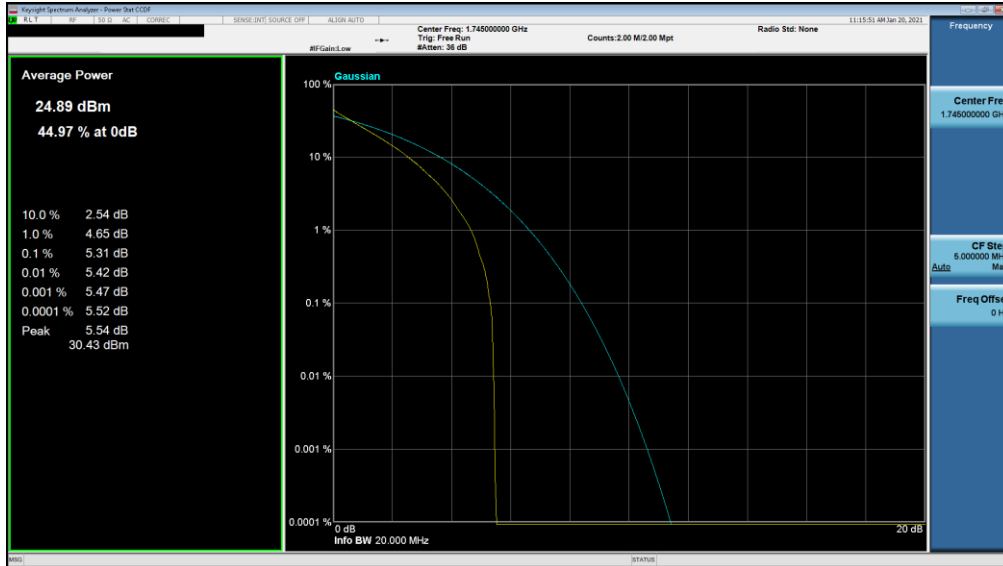


Plot 7-359. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

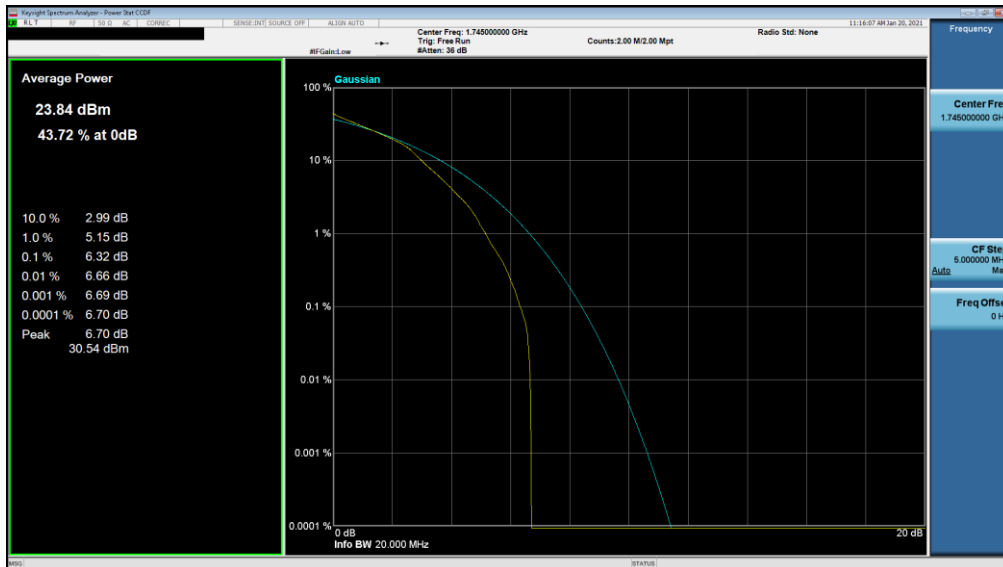


Plot 7-360. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 205 of 270

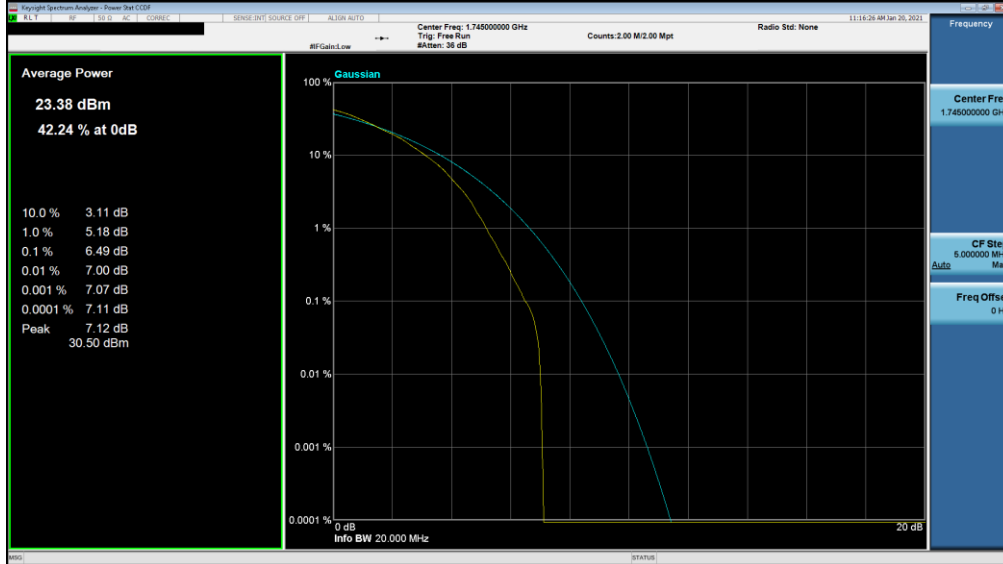


Plot 7-361. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

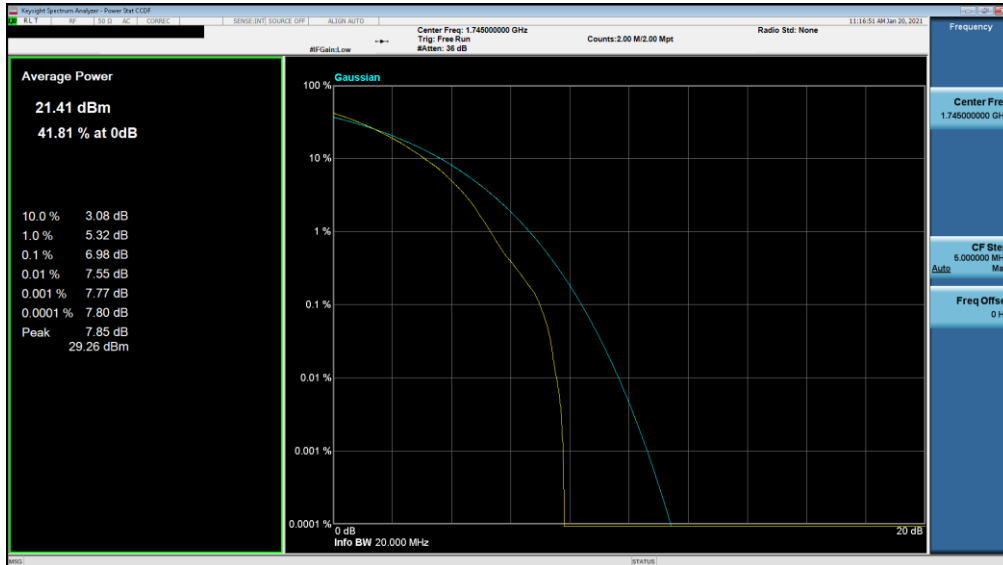


Plot 7-362. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 206 of 270



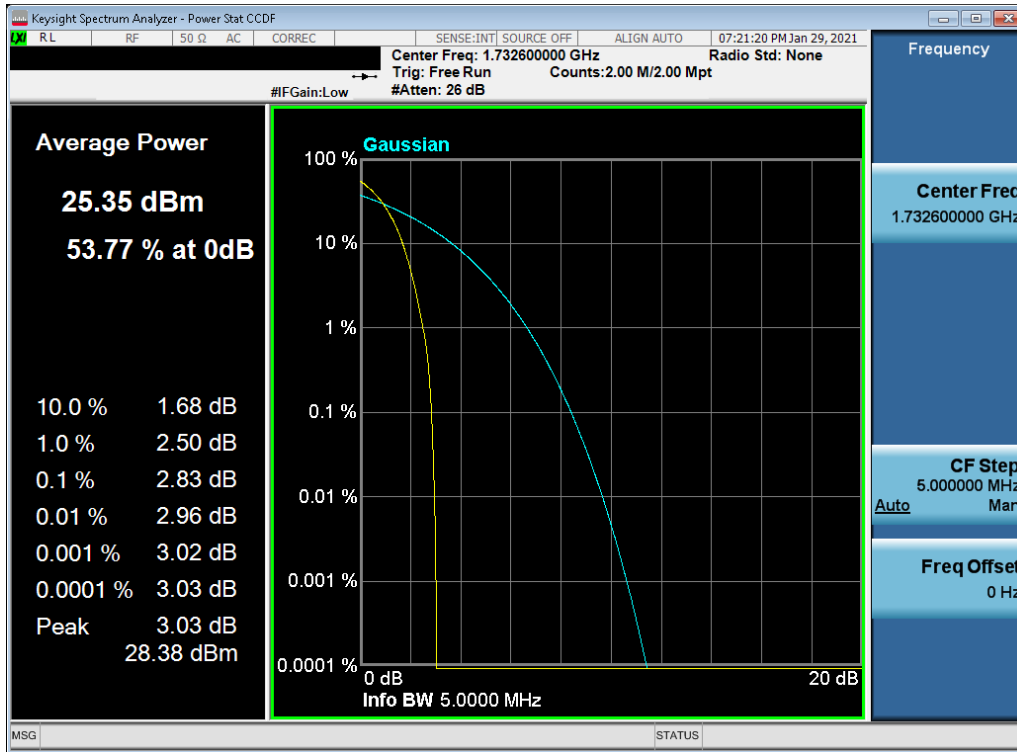
Plot 7-363. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-364. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 207 of 270

AWS WCDMA Mode



Plot 7-365. Peak-Average Ratio Plot (AWS WCDMA Mode)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 208 of 270

7.6 Radiated Power (ERP/EIRP) §27.50(b)(10), §27.50(c)(10), §27.50(d)(4)

Test Overview

Effective Radiated Power (ERP) and 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 – Section 5.2.5.5

Test Settings

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

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

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (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 dBd (ERP) or dBi (EIRP)

Test Setup

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

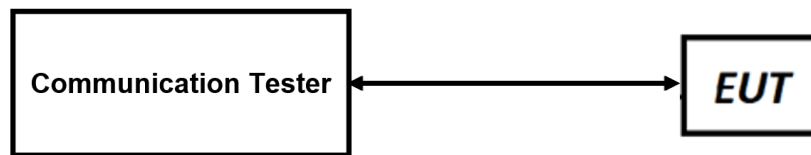




Figure 7-5. ERP/EIRP Measurement Setup

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 209 of 270

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT 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. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
5. The Ant. Gains (GT) are listed in dBi.


FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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7.6.1 Antenna 3 – EIRP

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	1.90	1 / 99	25.34	27.24	0.530	30.00	-2.76
		1732.5	1.90	1 / 99	25.68	27.58	0.573	30.00	-2.42
		1745.0	1.90	1 / 99	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1732.5	1.90	1 / 99	25.43	27.33	0.541	30.00	-2.67
	64-QAM	1720.0	1.90	1 / 99	24.38	26.28	0.425	30.00	-3.72
	256-QAM	1745.0	1.90	100 / 0	20.83	22.73	0.187	30.00	-7.27
15 MHz	QPSK	1717.5	1.90	1 / 74	25.59	27.49	0.561	30.00	-2.51
		1732.5	1.90	1 / 74	25.58	27.48	0.560	30.00	-2.52
		1747.5	1.90	1 / 37	25.69	27.59	0.574	30.00	-2.41
	16-QAM	1732.5	1.90	1 / 74	25.10	27.00	0.501	30.00	-3.00
	64-QAM	1747.5	1.90	1 / 0	24.03	25.93	0.392	30.00	-4.07
	256-QAM	1747.5	1.90	1 / 74	21.30	23.20	0.209	30.00	-6.80
10 MHz	QPSK	1715.0	1.90	1 / 49	25.28	27.18	0.522	30.00	-2.82
		1732.5	1.90	1 / 49	25.64	27.54	0.568	30.00	-2.46
		1750.0	1.90	1 / 25	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1732.5	1.90	1 / 49	25.13	27.03	0.505	30.00	-2.97
	64-QAM	1750.0	1.90	1 / 0	24.08	25.98	0.396	30.00	-4.02
	256-QAM	1750.0	1.90	1 / 0	21.36	23.26	0.212	30.00	-6.74
5 MHz	QPSK	1712.5	1.90	1 / 12	25.48	27.38	0.547	30.00	-2.62
		1732.5	1.90	1 / 0	25.61	27.51	0.564	30.00	-2.49
		1752.5	1.90	1 / 12	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1752.5	1.90	1 / 12	24.70	26.60	0.457	30.00	-3.40
	64-QAM	1752.5	1.90	1 / 0	23.76	25.66	0.368	30.00	-4.34
	256-QAM	1752.5	1.90	1 / 24	20.92	22.82	0.191	30.00	-7.18
3 MHz	QPSK	1711.5	1.90	1 / 7	25.60	27.50	0.562	30.00	-2.50
		1732.5	1.90	1 / 7	25.70	27.60	0.575	30.00	-2.40
		1753.5	1.90	1 / 7	25.67	27.57	0.571	30.00	-2.43
	16-QAM	1711.5	1.90	1 / 7	24.88	26.78	0.476	30.00	-3.22
	64-QAM	1753.5	1.90	1 / 0	23.62	25.52	0.356	30.00	-4.48
	256-QAM	1753.5	1.90	1 / 0	21.34	23.24	0.211	30.00	-6.76
1.4 MHz	QPSK	1710.7	1.90	1 / 5	25.56	27.46	0.557	30.00	-2.54
		1732.5	1.90	6 / 0	25.46	27.36	0.545	30.00	-2.64
		1754.3	1.90	1 / 0	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1710.7	1.90	1 / 0	24.80	26.70	0.468	30.00	-3.30
	64-QAM	1754.3	1.90	1 / 5	23.71	25.61	0.364	30.00	-4.39
	256-QAM	1754.3	1.90	1 / 0	20.82	22.72	0.187	30.00	-7.28


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

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 211 of 270

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	1.90	1 / 0	25.67	27.57	0.571	30.00	-2.43
		1745.0	1.90	1 / 50	25.70	27.60	0.575	30.00	-2.40
		1770.0	1.90	1 / 99	25.66	27.56	0.570	30.00	-2.44
	16-QAM	1720.0	1.90	1 / 50	24.56	26.46	0.443	30.00	-3.54
	64-QAM	1720.0	1.90	1 / 50	23.45	25.35	0.343	30.00	-4.65
256-QAM	1745.0	1.90	1 / 99	20.92	22.82	0.191	30.00	-7.18	
15 MHz	QPSK	1717.5	1.90	1 / 0	25.70	27.60	0.575	30.00	-2.40
		1745.0	1.90	1 / 0	25.63	27.53	0.566	30.00	-2.47
		1772.5	1.90	1 / 0	25.63	27.53	0.566	30.00	-2.47
	16-QAM	1745.0	1.90	1 / 0	24.09	25.99	0.397	30.00	-4.01
	64-QAM	1745.0	1.90	1 / 0	23.11	25.01	0.317	30.00	-4.99
256-QAM	1772.5	1.90	1 / 0	21.00	22.90	0.195	30.00	-7.10	
10 MHz	QPSK	1715.0	1.90	1 / 25	25.60	27.50	0.562	30.00	-2.50
		1745.0	1.90	1 / 25	25.66	27.56	0.570	30.00	-2.44
		1775.0	1.90	1 / 25	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1745.0	1.90	1 / 25	24.16	26.06	0.404	30.00	-3.94
	64-QAM	1745.0	1.90	1 / 25	23.15	25.05	0.320	30.00	-4.95
256-QAM	1775.0	1.90	1 / 49	21.06	22.96	0.198	30.00	-7.04	
5 MHz	QPSK	1712.5	1.90	1 / 0	25.59	27.49	0.561	30.00	-2.51
		1745.0	1.90	1 / 0	25.70	27.60	0.575	30.00	-2.40
		1777.5	1.90	1 / 0	25.47	27.37	0.546	30.00	-2.63
	16-QAM	1745.0	1.90	1 / 0	24.33	26.23	0.420	30.00	-3.77
	64-QAM	1745.0	1.90	1 / 0	23.34	25.24	0.334	30.00	-4.76
256-QAM	1777.5	1.90	25 / 0	20.82	22.72	0.187	30.00	-7.28	
3 MHz	QPSK	1711.5	1.90	1 / 7	25.67	27.57	0.571	30.00	-2.43
		1745.0	1.90	1 / 14	25.68	27.58	0.573	30.00	-2.42
		1778.5	1.90	1 / 0	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1745.0	1.90	1 / 14	24.23	26.13	0.410	30.00	-3.87
	64-QAM	1745.0	1.90	1 / 14	23.28	25.18	0.330	30.00	-4.82
256-QAM	1778.5	1.90	1 / 0	21.11	23.01	0.200	30.00	-6.99	
1.4 MHz	QPSK	1710.7	1.90	1 / 0	25.47	27.37	0.546	30.00	-2.63
		1745.0	1.90	1 / 0	25.50	27.40	0.550	30.00	-2.60
		1779.3	1.90	1 / 0	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1745.0	1.90	1 / 0	24.02	25.92	0.391	30.00	-4.08
	64-QAM	1745.0	1.90	1 / 0	23.00	24.90	0.309	30.00	-5.10
256-QAM	1779.3	1.90	6 / 0	20.76	22.66	0.185	30.00	-7.34	

Table 7-3. EIRP Data (LTE Band 66)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 212 of 270

LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	-2.70	1 / 25	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
		707.5	-2.70	1 / 25	25.61	20.76	0.119	34.77	-14.01	22.91	0.195	36.99	-14.08
		711.0	-2.70	1 / 25	25.62	20.77	0.119	34.77	-14.00	22.92	0.196	36.99	-14.07
	16-QAM	711.0	-2.70	1 / 0	25.20	20.35	0.108	34.77	-14.42	22.50	0.178	36.99	-14.49
	64-QAM	711.0	-2.70	1 / 0	24.70	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
256-QAM	704.0	-2.70	1 / 25	21.39	16.54	0.045	34.77	-18.23	18.69	0.074	36.99	-18.30	
5 MHz	QPSK	701.5	-2.70	1 / 12	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
		707.5	-2.70	1 / 0	25.60	20.75	0.119	34.77	-14.02	22.90	0.195	36.99	-14.09
		713.5	-2.70	1 / 12	25.62	20.77	0.119	34.77	-14.00	22.92	0.196	36.99	-14.07
	16-QAM	707.5	-2.70	1 / 0	25.21	20.36	0.109	34.77	-14.41	22.51	0.178	36.99	-14.48
	64-QAM	713.5	-2.70	1 / 0	24.16	19.31	0.085	34.77	-15.46	21.46	0.140	36.99	-15.53
256-QAM	713.5	-2.70	1 / 12	21.06	16.21	0.042	34.77	-18.56	18.36	0.069	36.99	-18.63	
3 MHz	QPSK	700.5	-2.70	1 / 7	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
		707.5	-2.70	1 / 7	25.69	20.84	0.121	34.77	-13.93	22.99	0.199	36.99	-14.00
		714.5	-2.70	1 / 7	25.67	20.82	0.121	34.77	-13.95	22.97	0.198	36.99	-14.02
	16-QAM	707.5	-2.70	1 / 7	25.21	20.36	0.109	34.77	-14.41	22.51	0.178	36.99	-14.48
	64-QAM	707.5	-2.70	1 / 7	24.66	19.81	0.096	34.77	-14.96	21.96	0.157	36.99	-15.03
256-QAM	714.5	-2.70	1 / 7	20.86	16.01	0.040	34.77	-18.76	18.16	0.065	36.99	-18.83	
1.4 MHz	QPSK	699.7	-2.70	1 / 0	25.68	20.83	0.121	34.77	-13.94	22.98	0.199	36.99	-14.01
		707.5	-2.70	1 / 0	25.64	20.79	0.120	34.77	-13.98	22.94	0.197	36.99	-14.05
		715.3	-2.70	1 / 0	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
	16-QAM	707.5	-2.70	1 / 0	25.21	20.36	0.109	34.77	-14.41	22.51	0.178	36.99	-14.48
	64-QAM	707.5	-2.70	1 / 0	24.62	19.77	0.095	34.77	-15.00	21.92	0.156	36.99	-15.07
256-QAM	699.7	-2.70	6 / 0	20.93	16.08	0.041	34.77	-18.69	18.23	0.067	36.99	-18.76	

Table 7-4. ERP/EIRP Data (LTE Band 12)

LTE Band 17


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	709.0	-2.70	1 / 25	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
		710.0	-2.70	1 / 25	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
		711.0	-2.70	1 / 25	25.64	20.79	0.120	34.77	-13.98	22.94	0.197	36.99	-14.05
	16-QAM	709.0	-2.70	1 / 0	25.19	20.34	0.108	34.77	-14.43	22.49	0.177	36.99	-14.50
	256-QAM	709.0	-2.70	1 / 25	24.67	19.82	0.096	34.77	-14.95	21.97	0.157	36.99	-15.02
256-QAM	711.0	-2.70	1 / 49	21.42	16.57	0.045	34.77	-18.20	18.72	0.074	36.99	-18.27	
5 MHz	QPSK	706.5	-2.70	1 / 24	25.63	20.78	0.120	34.77	-13.99	22.93	0.196	36.99	-14.06
		710.0	-2.70	1 / 0	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
		713.5	-2.70	1 / 12	25.65	20.80	0.120	34.77	-13.97	22.95	0.197	36.99	-14.04
	16-QAM	710.0	-2.70	1 / 0	25.32	20.47	0.111	34.77	-14.30	22.62	0.183	36.99	-14.37
	64-QAM	710.0	-2.70	1 / 0	24.75	19.90	0.098	34.77	-14.87	22.05	0.160	36.99	-14.94
256-QAM	713.5	-2.70	1 / 0	20.96	16.11	0.041	34.77	-18.66	18.26	0.067	36.99	-18.73	

Table 7-5. ERP/EIRP Data (LTE Band 17)

LTE Band 13

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	-3.10	1 / 49	25.70	20.45	0.111	34.77	-14.32	22.60	0.182	36.99	-14.39
	16-QAM	782.0	-3.10	1 / 0	25.23	19.98	0.100	34.77	-14.79	22.13	0.163	36.99	-14.86
	64-QAM	782.0	-3.10	1 / 0	24.71	19.46	0.088	34.77	-15.31	21.61	0.145	36.99	-15.38
	256-QAM	782.0	-3.10	1 / 49	21.08	15.83	0.038	34.77	-18.94	17.98	0.063	36.99	-19.01
5 MHz	QPSK	779.5	-3.10	1 / 24	25.67	20.42	0.110	34.77	-14.35	22.57	0.181	36.99	-14.42
		782.0	-3.10	1 / 0	25.70	20.45	0.111	34.77	-14.32	22.60	0.182	36.99	-14.39
		784.5	-3.10	1 / 0	25.68	20.43	0.110	34.77	-14.34	22.58	0.181	36.99	-14.41
	16-QAM	782.0	-3.10	1 / 12	25.30	20.05	0.101	34.77	-14.72	22.20	0.166	36.99	-14.79
	64-QAM	782.0	-3.10	1 / 12	24.86	19.61	0.091	34.77	-15.16	21.76	0.150	36.99	-15.23
256-QAM	779.5	-3.10	1 / 24	21.15	15.90	0.039	34.77	-18.87	18.05	0.064	36.99	-18.94	


Table 7-6. ERP/EIRP Data (LTE Band 13)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 213 of 270

LTE Band 71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.0	-3.20	1 / 50	25.70	20.35	0.108	34.77	-14.42	22.50	0.178	36.99	-14.49
		680.5	-3.20	1 / 50	25.65	20.30	0.107	34.77	-14.47	22.45	0.176	36.99	-14.54
		688.0	-3.20	1 / 50	25.44	20.09	0.102	34.77	-14.68	22.24	0.167	36.99	-14.75
	16-QAM	673.0	-3.20	1 / 0	24.96	19.61	0.091	34.77	-15.16	21.76	0.150	36.99	-15.23
		673.0	-3.20	1 / 0	24.41	19.06	0.081	34.77	-15.71	21.21	0.132	36.99	-15.78
		256-QAM	673.0	-3.20	1 / 99	20.96	15.61	0.036	34.77	-19.16	17.76	0.060	36.99
15 MHz	QPSK	670.5	-3.20	1 / 37	25.70	20.35	0.108	34.77	-14.42	22.50	0.178	36.99	-14.49
		680.5	-3.20	1 / 0	25.66	20.31	0.107	34.77	-14.46	22.46	0.176	36.99	-14.53
		690.5	-3.20	1 / 0	25.65	20.30	0.107	34.77	-14.47	22.45	0.176	36.99	-14.54
	16-QAM	680.5	-3.20	1 / 0	25.13	19.78	0.095	34.77	-14.99	21.93	0.156	36.99	-15.06
		64-QAM	680.5	-3.20	1 / 0	24.59	19.24	0.084	34.77	-15.53	21.39	0.138	36.99
	256-QAM	690.5	-3.20	1 / 37	21.29	15.94	0.039	34.77	-18.83	18.09	0.064	36.99	-18.90
10 MHz	QPSK	668.0	-3.20	1 / 25	25.69	20.34	0.108	34.77	-14.43	22.49	0.177	36.99	-14.50
		680.5	-3.20	1 / 25	25.68	20.33	0.108	34.77	-14.44	22.48	0.177	36.99	-14.51
		693.0	-3.20	1 / 25	25.66	20.31	0.107	34.77	-14.46	22.46	0.176	36.99	-14.53
	16-QAM	680.5	-3.20	1 / 25	25.14	19.79	0.095	34.77	-14.98	21.94	0.156	36.99	-15.05
		64-QAM	680.5	-3.20	1 / 25	24.61	19.26	0.084	34.77	-15.51	21.41	0.138	36.99
	256-QAM	693.0	-3.20	1 / 0	21.38	16.03	0.040	34.77	-18.74	18.18	0.066	36.99	-18.81
5 MHz	QPSK	665.5	-3.20	1 / 12	25.70	20.35	0.108	34.77	-14.42	22.50	0.178	36.99	-14.49
		680.5	-3.20	1 / 24	25.67	20.32	0.108	34.77	-14.45	22.47	0.177	36.99	-14.52
		695.5	-3.20	1 / 12	25.61	20.26	0.106	34.77	-14.51	22.41	0.174	36.99	-14.58
	16-QAM	680.5	-3.20	1 / 24	25.32	19.97	0.099	34.77	-14.80	22.12	0.163	36.99	-14.87
		64-QAM	680.5	-3.20	1 / 24	24.76	19.41	0.087	34.77	-15.36	21.56	0.143	36.99
256-QAM	695.5	-3.20	1 / 12	20.94	15.59	0.036	34.77	-19.18	17.74	0.059	36.99	-19.25	


Table 7-7. ERP/EIRP Data (LTE Band 71)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 214 of 270

NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	1720.0	1.90	1 / 98	25.68	27.58	0.572	30.00	-2.42
		1745.0	1.90	1 / 98	25.70	27.60	0.575	30.00	-2.40
		1770.0	1.90	1 / 98	25.56	27.46	0.557	30.00	-2.54
	QPSK	1720.0	1.90	1 / 98	25.66	27.56	0.570	30.00	-2.44
		1745.0	1.90	1 / 1	25.68	27.58	0.573	30.00	-2.42
		1770.0	1.90	1 / 1	25.60	27.50	0.563	30.00	-2.50
	16-QAM	1720.0	1.90	1 / 98	24.57	26.47	0.444	30.00	-3.53
	64-QAM	1745.0	1.90	1 / 1	23.46	25.36	0.344	30.00	-4.64
	256-QAM	1770.0	1.90	1 / 1	21.47	23.37	0.217	30.00	-6.63
15 MHz	π/2 BPSK	1717.5	1.90	1 / 1	25.48	27.38	0.547	30.00	-2.62
		1745.0	1.90	1 / 73	25.65	27.55	0.569	30.00	-2.45
		1772.5	1.90	1 / 75	25.68	27.58	0.573	30.00	-2.42
	QPSK	1717.5	1.90	1 / 73	25.50	27.40	0.550	30.00	-2.60
		1745.0	1.90	1 / 75	25.53	27.43	0.553	30.00	-2.57
		1772.5	1.90	1 / 1	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1745.0	1.90	1 / 73	24.57	26.47	0.444	30.00	-3.53
	64-QAM	1745.0	1.90	75 / 0	23.30	25.20	0.331	30.00	-4.80
	256-QAM	1717.5	1.90	1 / 75	21.74	23.64	0.231	30.00	-6.36
10 MHz	π/2 BPSK	1715.0	1.90	1 / 25	25.48	27.38	0.547	30.00	-2.62
		1745.0	1.90	1 / 48	25.62	27.52	0.565	30.00	-2.48
		1775.0	1.90	1 / 25	25.63	27.53	0.566	30.00	-2.47
	QPSK	1715.0	1.90	1 / 48	25.63	27.53	0.566	30.00	-2.47
		1745.0	1.90	1 / 1	25.70	27.60	0.575	30.00	-2.40
		1775.0	1.90	1 / 48	25.66	27.56	0.570	30.00	-2.44
	16-QAM	1775.0	1.90	1 / 48	24.32	26.22	0.418	30.00	-3.78
	64-QAM	1745.0	1.90	1 / 48	23.64	25.54	0.358	30.00	-4.46
	256-QAM	1745.0	1.90	50 / 0	21.22	23.12	0.205	30.00	-6.88
5 MHz	π/2 BPSK	1712.5	1.90	1 / 23	25.63	27.53	0.566	30.00	-2.47
		1745.0	1.90	1 / 23	25.58	27.48	0.560	30.00	-2.52
		1777.5	1.90	1 / 1	25.65	27.55	0.569	30.00	-2.45
	QPSK	1712.5	1.90	1 / 12	25.30	27.20	0.525	30.00	-2.80
		1745.0	1.90	1 / 1	25.70	27.60	0.575	30.00	-2.40
		1777.5	1.90	1 / 23	25.70	27.60	0.575	30.00	-2.40
	16-QAM	1745.0	1.90	1 / 12	24.74	26.64	0.461	30.00	-3.36
	64-QAM	1745.0	1.90	1 / 1	23.62	25.52	0.356	30.00	-4.48
	256-QAM	1745.0	1.90	1 / 1	21.34	23.24	0.211	30.00	-6.76


Table 7-8. EIRP Data (NR Band n66 DFTs – OFDM)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 215 of 270

NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	TT/2 BPSK	673.0	-2.70	1 / 1	25.70	23.00	0.200	36.99	-13.99	20.85	0.122	34.77	-13.92
		680.5	-2.70	1 / 75	25.47	22.77	0.189	36.99	-14.22	20.62	0.115	34.77	-14.15
		688.0	-2.70	1 / 73	25.52	22.82	0.192	36.99	-14.17	20.67	0.117	34.77	-14.10
	QPSK	670.5	-2.70	1 / 1	25.31	22.61	0.183	36.99	-14.37	20.46	0.111	34.77	-14.31
		680.5	-2.70	1 / 75	25.44	22.74	0.188	36.99	-14.25	20.59	0.114	34.77	-14.18
		690.5	-2.70	1 / 75	25.69	22.99	0.199	36.99	-14.00	20.84	0.121	34.77	-13.93
	16-QAM	690.5	-2.70	1 / 75	25.40	22.70	0.186	36.99	-14.29	20.55	0.113	34.77	-14.23
	64-QAM	670.5	-2.70	1 / 1	24.01	21.31	0.135	36.99	-15.68	19.16	0.083	34.77	-15.61
	256-QAM	680.5	-2.70	1 / 75	21.64	18.94	0.078	36.99	-18.05	16.79	0.048	34.77	-17.98
10 MHz	TT/2 BPSK	673.0	-2.70	1 / 25	25.43	22.73	0.188	36.99	-14.26	20.58	0.114	34.77	-14.19
		680.5	-2.70	1 / 1	25.62	22.92	0.196	36.99	-14.07	20.77	0.120	34.77	-14.00
		688.0	-2.70	1 / 1	25.70	23.00	0.200	36.99	-13.99	20.85	0.122	34.77	-13.92
	QPSK	668.0	-2.70	1 / 1	25.62	22.92	0.196	36.99	-14.07	20.77	0.119	34.77	-14.00
		680.5	-2.70	1 / 1	25.41	22.71	0.187	36.99	-14.28	20.56	0.114	34.77	-14.21
		693.0	-2.70	1 / 25	25.65	22.95	0.197	36.99	-14.04	20.80	0.120	34.77	-13.97
	16-QAM	668.0	-2.70	1 / 1	25.33	22.63	0.183	36.99	-14.36	20.48	0.112	34.77	-14.29
	64-QAM	680.5	-2.70	50 / 0	23.35	20.65	0.116	36.99	-16.34	18.50	0.071	34.77	-16.27
	256-QAM	680.5	-2.70	1 / 25	21.49	18.79	0.076	36.99	-18.20	16.64	0.046	34.77	-18.13
5 MHz	TT/2 BPSK	673.0	-2.70	1 / 23	25.65	22.95	0.197	36.99	-14.04	20.80	0.120	34.77	-13.97
		680.5	-2.70	1 / 12	25.66	22.96	0.198	36.99	-14.03	20.81	0.120	34.77	-13.96
		688.0	-2.70	1 / 23	25.56	22.86	0.193	36.99	-14.13	20.71	0.118	34.77	-14.06
	QPSK	665.5	-2.70	1 / 1	25.70	23.00	0.200	36.99	-13.99	20.85	0.122	34.77	-13.92
		680.5	-2.70	1 / 23	25.67	22.97	0.198	36.99	-14.02	20.82	0.121	34.77	-13.95
		695.5	-2.70	1 / 1	25.51	22.81	0.191	36.99	-14.18	20.66	0.116	34.77	-14.11
	16-QAM	680.5	-2.70	1 / 12	25.28	22.58	0.181	36.99	-14.41	20.43	0.110	34.77	-14.34
	64-QAM	695.5	-2.70	1 / 1	23.40	20.70	0.118	36.99	-16.29	18.55	0.072	34.77	-16.22
	256-QAM	695.5	-2.70	1 / 1	21.56	18.86	0.077	36.99	-18.13	16.71	0.047	34.77	-18.06

Table 7-9. ERP/EIRP Data (NR Band n12 DFT-s – OFDM)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 216 of 270

NR Band n71


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	673.0	-3.20	1 / 1	25.70	22.50	0.178	36.99	-14.49	20.35	0.108	34.77	-14.42
		680.5	-3.20	1 / 1	25.35	22.15	0.164	36.99	-14.84	20.00	0.100	34.77	-14.77
		688.0	-3.20	1 / 98	25.70	22.50	0.178	36.99	-14.49	20.35	0.108	34.77	-14.42
	QPSK	673.0	-3.20	1 / 1	25.67	22.47	0.177	36.99	-14.52	20.32	0.108	34.77	-14.45
		680.5	-3.20	1 / 98	25.57	22.37	0.173	36.99	-14.62	20.22	0.105	34.77	-14.55
		688.0	-3.20	1 / 98	25.40	22.20	0.166	36.99	-14.79	20.05	0.101	34.77	-14.73
	16-QAM	680.5	-3.20	1 / 50	25.40	22.20	0.166	36.99	-14.79	20.05	0.101	34.77	-14.72
	64-QAM	680.5	-3.20	1 / 1	23.56	20.36	0.109	36.99	-16.62	18.21	0.066	34.77	-16.56
	256-QAM	688.0	-3.20	1 / 50	21.52	18.32	0.068	36.99	-18.67	16.17	0.041	34.77	-18.60
	15 MHz	π/2 BPSK	670.5	-3.20	1 / 1	25.70	22.50	0.178	36.99	-14.49	20.35	0.108	34.77
680.5			-3.20	1 / 73	25.65	22.45	0.176	36.99	-14.54	20.30	0.107	34.77	-14.47
690.5			-3.20	1 / 73	25.30	22.10	0.162	36.99	-14.89	19.95	0.099	34.77	-14.82
QPSK		670.5	-3.20	1 / 75	25.70	22.50	0.178	36.99	-14.49	20.35	0.108	34.77	-14.42
		680.5	-3.20	1 / 75	25.56	22.36	0.172	36.99	-14.63	20.21	0.105	34.77	-14.56
		690.5	-3.20	1 / 1	25.18	21.98	0.158	36.99	-15.01	19.83	0.096	34.77	-14.94
16-QAM		680.5	-3.20	1 / 75	25.27	22.07	0.161	36.99	-14.92	19.92	0.098	34.77	-14.85
64-QAM		680.5	-3.20	1 / 1	23.69	20.49	0.112	36.99	-16.50	18.34	0.068	34.77	-16.43
256-QAM		670.5	-3.20	1 / 73	21.79	18.59	0.072	36.99	-18.40	16.44	0.044	34.77	-18.33
10 MHz		π/2 BPSK	668.0	-3.20	1 / 48	25.62	22.42	0.175	36.99	-14.57	20.27	0.107	34.77
	680.5		-3.20	1 / 48	25.70	22.50	0.178	36.99	-14.49	20.35	0.108	34.77	-14.42
	693.0		-3.20	1 / 48	25.49	22.29	0.170	36.99	-14.70	20.14	0.103	34.77	-14.63
	QPSK	668.0	-3.20	1 / 25	25.18	21.98	0.158	36.99	-15.01	19.83	0.096	34.77	-14.94
		680.5	-3.20	1 / 25	25.64	22.44	0.175	36.99	-14.55	20.29	0.107	34.77	-14.48
		693.0	-3.20	1 / 48	25.50	22.30	0.170	36.99	-14.69	20.15	0.104	34.77	-14.62
	16-QAM	693.0	-3.20	1 / 25	25.33	22.13	0.163	36.99	-14.86	19.98	0.099	34.77	-14.79
	64-QAM	680.5	-3.20	50 / 0	23.45	20.25	0.106	36.99	-16.74	18.10	0.065	34.77	-16.67
	256-QAM	680.5	-3.20	1 / 48	22.02	18.82	0.076	36.99	-18.17	16.67	0.046	34.77	-18.10
	5 MHz	π/2 BPSK	665.5	-3.20	1 / 12	25.70	22.50	0.178	36.99	-14.49	20.35	0.108	34.77
680.5			-3.20	1 / 23	25.69	22.49	0.177	36.99	-14.50	20.34	0.108	34.77	-14.44
695.5			-3.20	1 / 23	25.62	22.42	0.174	36.99	-14.57	20.27	0.106	34.77	-14.51
QPSK		665.5	-3.20	1 / 12	25.37	22.17	0.165	36.99	-14.82	20.02	0.101	34.77	-14.75
		680.5	-3.20	1 / 1	25.29	22.09	0.162	36.99	-14.90	19.94	0.099	34.77	-14.84
		695.5	-3.20	1 / 1	25.64	22.44	0.175	36.99	-14.55	20.29	0.107	34.77	-14.48
16-QAM		665.5	-3.20	1 / 23	25.17	21.97	0.157	36.99	-15.02	19.82	0.096	34.77	-14.95
64-QAM		665.5	-3.20	1 / 23	23.73	20.53	0.113	36.99	-16.46	18.38	0.069	34.77	-16.39
256-QAM		695.5	-3.20	1 / 12	21.61	18.41	0.069	36.99	-18.58	16.26	0.042	34.77	-18.51

Table 7-10. ERP/EIRP Data (NR Band n71 DFT-s – OFDM)

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	25.60	1.90	27.50	0.562	30.00	-2.50
1732.60	WCDMA1700	25.69	1.90	27.59	0.574	30.00	-2.41
1752.60	WCDMA1700	25.70	1.90	27.60	0.575	30.00	-2.40

Table 7-11. EIRP Data (WCDMA AWS)


FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 217 of 270

7.6.2 Antenna 1 – EIRP

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	-0.50	1 / 99	22.17	21.67	0.147	30.00	-8.33
		1732.5	-0.50	1 / 50	22.11	21.61	0.145	30.00	-8.39
		1745.0	-0.50	1 / 50	22.04	21.54	0.143	30.00	-8.46
	16-QAM	1732.5	-0.50	1 / 99	21.60	21.10	0.129	30.00	-8.90
	64-QAM	1732.5	-0.50	1 / 50	20.69	20.19	0.104	30.00	-9.81
	256-QAM	1732.5	-0.50	1 / 50	19.02	18.52	0.071	30.00	-11.48
15 MHz	QPSK	1717.5	-0.50	1 / 37	22.15	21.65	0.146	30.00	-8.35
		1732.5	-0.50	1 / 37	21.97	21.47	0.140	30.00	-8.53
		1747.5	-0.50	1 / 37	21.97	21.47	0.140	30.00	-8.53
	16-QAM	1717.5	-0.50	1 / 37	21.62	21.12	0.129	30.00	-8.88
	64-QAM	1717.5	-0.50	1 / 37	20.78	20.28	0.107	30.00	-9.72
	256-QAM	1717.5	-0.50	1 / 37	19.11	18.61	0.073	30.00	-11.39
10 MHz	QPSK	1715.0	-0.50	1 / 49	22.02	21.52	0.142	30.00	-8.48
		1732.5	-0.50	1 / 49	22.20	21.70	0.148	30.00	-8.30
		1750.0	-0.50	1 / 49	22.05	21.55	0.143	30.00	-8.45
	16-QAM	1732.5	-0.50	1 / 49	21.46	20.96	0.125	30.00	-9.04
	64-QAM	1750.0	-0.50	1 / 49	20.91	20.41	0.110	30.00	-9.59
	256-QAM	1732.5	-0.50	1 / 0	17.72	17.22	0.053	30.00	-12.78
5 MHz	QPSK	1712.5	-0.50	1 / 24	22.07	21.57	0.144	30.00	-8.43
		1732.5	-0.50	1 / 0	22.20	21.70	0.148	30.00	-8.30
		1752.5	-0.50	1 / 24	22.20	21.70	0.148	30.00	-8.30
	16-QAM	1712.5	-0.50	1 / 24	21.64	21.14	0.130	30.00	-8.86
	64-QAM	1712.5	-0.50	1 / 24	20.59	20.09	0.102	30.00	-9.91
	256-QAM	1752.5	-0.50	1 / 24	17.84	17.34	0.054	30.00	-12.66
3 MHz	QPSK	1711.5	-0.50	1 / 0	22.20	21.70	0.148	30.00	-8.30
		1732.5	-0.50	1 / 0	22.20	21.70	0.148	30.00	-8.30
		1753.5	-0.50	1 / 7	22.08	21.58	0.144	30.00	-8.42
	16-QAM	1711.5	-0.50	1 / 14	21.39	20.89	0.123	30.00	-9.11
	64-QAM	1732.5	-0.50	15 / 0	20.59	20.09	0.102	30.00	-9.91
	256-QAM	1711.5	-0.50	1 / 7	17.72	17.22	0.053	30.00	-12.78
1.4 MHz	QPSK	1710.7	-0.50	1 / 0	22.14	21.64	0.146	30.00	-8.36
		1732.5	-0.50	1 / 3	22.20	21.70	0.148	30.00	-8.30
		1754.3	-0.50	1 / 0	22.14	21.64	0.146	30.00	-8.36
	16-QAM	1710.7	-0.50	1 / 0	21.45	20.95	0.124	30.00	-9.05
	64-QAM	1732.5	-0.50	1 / 5	20.59	20.09	0.102	30.00	-9.91
	256-QAM	1710.7	-0.50	1 / 0	17.68	17.18	0.052	30.00	-12.82


Table 7-12. EIRP Data (LTE Band 4)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 218 of 270

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	-0.50	1 / 99	22.18	21.68	0.147	30.00	-8.32
		1745.0	-0.50	1 / 99	22.20	21.70	0.148	30.00	-8.30
		1770.0	-0.50	1 / 99	22.20	21.70	0.148	30.00	-8.30
	16-QAM	1770.0	-0.50	1 / 0	21.96	21.46	0.140	30.00	-8.54
	64-QAM	1770.0	-0.50	1 / 99	21.02	20.52	0.113	30.00	-9.48
256-QAM	1770.0	-0.50	1 / 99	19.33	18.83	0.076	30.00	-11.17	
15 MHz	QPSK	1717.5	-0.50	1 / 37	22.20	21.70	0.148	30.00	-8.30
		1745.0	-0.50	1 / 37	22.17	21.67	0.147	30.00	-8.33
		1772.5	-0.50	1 / 37	22.07	21.57	0.144	30.00	-8.43
	16-QAM	1745.0	-0.50	1 / 37	21.64	21.14	0.130	30.00	-8.86
	64-QAM	1745.0	-0.50	1 / 37	20.81	20.31	0.107	30.00	-9.69
256-QAM	1745.0	-0.50	1 / 37	19.94	19.44	0.088	30.00	-10.56	
10 MHz	QPSK	1715.0	-0.50	1 / 49	22.10	21.60	0.145	30.00	-8.40
		1745.0	-0.50	1 / 49	22.20	21.70	0.148	30.00	-8.30
		1775.0	-0.50	1 / 49	22.18	21.68	0.147	30.00	-8.32
	16-QAM	1745.0	-0.50	1 / 49	21.69	21.19	0.132	30.00	-8.81
	64-QAM	1745.0	-0.50	1 / 25	20.81	20.31	0.107	30.00	-9.69
256-QAM	1745.0	-0.50	1 / 49	19.94	19.44	0.088	30.00	-10.56	
5 MHz	QPSK	1712.5	-0.50	1 / 12	22.15	21.65	0.146	30.00	-8.35
		1745.0	-0.50	1 / 12	22.20	21.70	0.148	30.00	-8.30
		1777.5	-0.50	1 / 12	21.97	21.47	0.140	30.00	-8.53
	16-QAM	1745.0	-0.50	1 / 12	21.80	21.30	0.135	30.00	-8.70
	64-QAM	1745.0	-0.50	1 / 0	20.94	20.44	0.111	30.00	-9.56
256-QAM	1745.0	-0.50	1 / 0	20.10	19.60	0.091	30.00	-10.40	
3 MHz	QPSK	1711.5	-0.50	1 / 14	22.19	21.69	0.148	30.00	-8.31
		1745.0	-0.50	1 / 0	22.18	21.68	0.147	30.00	-8.32
		1778.5	-0.50	1 / 14	22.20	21.70	0.148	30.00	-8.30
	16-QAM	1745.0	-0.50	1 / 0	21.69	21.19	0.132	30.00	-8.81
	64-QAM	1745.0	-0.50	1 / 0	20.85	20.35	0.108	30.00	-9.65
256-QAM	1745.0	-0.50	1 / 0	19.99	19.49	0.089	30.00	-10.51	
1.4 MHz	QPSK	1710.7	-0.50	1 / 3	21.99	21.49	0.141	30.00	-8.51
		1745.0	-0.50	1 / 3	22.08	21.58	0.144	30.00	-8.42
		1779.3	-0.50	1 / 3	22.20	21.70	0.148	30.00	-8.30
	16-QAM	1745.0	-0.50	1 / 3	21.54	21.04	0.127	30.00	-8.96
	64-QAM	1745.0	-0.50	1 / 3	20.67	20.17	0.104	30.00	-9.83
256-QAM	1745.0	-0.50	1 / 3	19.85	19.35	0.086	30.00	-10.65	

Table 7-13. EIRP Data (LTE Band 66)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 219 of 270

LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	-3.10	1 / 25	23.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
		707.5	-3.10	1 / 25	23.88	18.63	0.073	34.77	-16.14	20.78	0.120	36.99	-16.21
		711.0	-3.10	1 / 25	23.89	18.64	0.073	34.77	-16.13	20.79	0.120	36.99	-16.20
	16-QAM	707.5	-3.10	1 / 0	23.40	18.15	0.065	34.77	-16.62	20.30	0.107	36.99	-16.69
	64-QAM	707.5	-3.10	1 / 0	22.85	17.60	0.058	34.77	-17.17	19.75	0.094	36.99	-17.24
	256-QAM	707.5	-3.10	1 / 0	21.65	16.40	0.044	34.77	-18.37	18.55	0.072	36.99	-18.44
5 MHz	QPSK	701.5	-3.10	1 / 12	23.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
		707.5	-3.10	1 / 12	23.84	18.59	0.072	34.77	-16.18	20.74	0.119	36.99	-16.25
		713.5	-3.10	1 / 12	23.83	18.58	0.072	34.77	-16.19	20.73	0.118	36.99	-16.26
	16-QAM	707.5	-3.10	1 / 12	23.46	18.21	0.066	34.77	-16.56	20.36	0.109	36.99	-16.63
	64-QAM	707.5	-3.10	1 / 24	22.94	17.69	0.059	34.77	-17.08	19.84	0.096	36.99	-17.15
	256-QAM	707.5	-3.10	1 / 24	21.72	16.47	0.044	34.77	-18.30	18.62	0.073	36.99	-18.37
3 MHz	QPSK	700.5	-3.10	1 / 7	23.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
		707.5	-3.10	1 / 7	23.89	18.64	0.073	34.77	-16.13	20.79	0.120	36.99	-16.20
		714.5	-3.10	1 / 7	23.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
	16-QAM	707.5	-3.10	1 / 7	23.39	18.14	0.065	34.77	-16.63	20.29	0.107	36.99	-16.70
	64-QAM	707.5	-3.10	1 / 14	22.89	17.64	0.058	34.77	-17.13	19.79	0.095	36.99	-17.20
	256-QAM	707.5	-3.10	1 / 14	21.67	16.42	0.044	34.77	-18.35	18.57	0.072	36.99	-18.42
1.4 MHz	QPSK	699.7	-3.10	1 / 3	23.88	18.63	0.073	34.77	-16.14	20.78	0.120	36.99	-16.21
		707.5	-3.10	1 / 0	23.87	18.62	0.073	34.77	-16.15	20.77	0.119	36.99	-16.22
		715.3	-3.10	1 / 0	23.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
	16-QAM	707.5	-3.10	1 / 0	23.38	18.13	0.065	34.77	-16.64	20.28	0.107	36.99	-16.71
	64-QAM	707.5	-3.10	1 / 0	22.83	17.58	0.057	34.77	-17.19	19.73	0.094	36.99	-17.26
	256-QAM	707.5	-3.10	1 / 0	21.66	16.41	0.044	34.77	-18.36	18.56	0.072	36.99	-18.43

Table 7-14. ERP/EIRP Data (LTE Band 12)

LTE Band 17


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	709.0	-3.10	1 / 25	23.86	18.61	0.073	34.77	-16.16	20.76	0.119	36.99	-16.23
		710.0	-3.10	1 / 0	23.88	18.63	0.073	34.77	-16.14	20.78	0.120	36.99	-16.21
		711.0	-3.10	1 / 25	23.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
	16-QAM	710.0	-3.10	1 / 0	23.43	18.18	0.066	34.77	-16.59	20.33	0.108	36.99	-16.66
	64-QAM	711.0	-3.10	1 / 25	22.75	17.50	0.056	34.77	-17.27	19.65	0.092	36.99	-17.34
	256-QAM	710.0	-3.10	1 / 0	21.45	16.20	0.042	34.77	-18.57	18.35	0.068	36.99	-18.64
5 MHz	QPSK	706.5	-3.10	1 / 24	23.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
		710.0	-3.10	1 / 24	23.89	18.64	0.073	34.77	-16.13	20.79	0.120	36.99	-16.20
		713.5	-3.10	1 / 12	23.86	18.61	0.073	34.77	-16.16	20.76	0.119	36.99	-16.23
	16-QAM	710.0	-3.10	1 / 0	23.50	18.25	0.067	34.77	-16.52	20.40	0.110	36.99	-16.59
	64-QAM	710.0	-3.10	1 / 24	22.94	17.69	0.059	34.77	-17.08	19.84	0.096	36.99	-17.15
	256-QAM	710.0	-3.10	1 / 0	21.50	16.25	0.042	34.77	-18.52	18.40	0.069	36.99	-18.59

Table 7-15. ERP/EIRP Data (LTE Band 17)

LTE Band 13

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	-2.20	1 / 49	23.70	19.35	0.086	34.77	-15.42	21.50	0.141	36.99	-15.49
	16-QAM	782.0	-2.20	1 / 0	23.07	18.72	0.074	34.77	-16.05	20.87	0.122	36.99	-16.12
	64-QAM	782.0	-2.20	1 / 49	21.31	16.96	0.050	34.77	-17.81	19.11	0.081	36.99	-17.88
	256-QAM	782.0	-2.20	50 / 0	19.11	14.76	0.030	34.77	-20.01	16.91	0.049	36.99	-20.08
5 MHz	QPSK	779.5	-2.20	1 / 12	23.36	19.01	0.080	34.77	-15.76	21.16	0.131	36.99	-15.83
		782.0	-2.20	1 / 0	23.80	19.45	0.088	34.77	-15.32	21.60	0.145	36.99	-15.39
		784.5	-2.20	1 / 0	23.90	19.55	0.090	34.77	-15.22	21.70	0.148	36.99	-15.29
	16-QAM	784.5	-2.20	1 / 0	23.32	18.97	0.079	34.77	-15.80	21.12	0.129	36.99	-15.87
	64-QAM	782.0	-2.20	1 / 0	22.04	17.69	0.059	34.77	-17.08	19.84	0.096	36.99	-17.15
	256-QAM	784.5	-2.20	1 / 24	19.65	15.30	0.034	34.77	-19.47	17.45	0.056	36.99	-19.54


Table 7-16. ERP/EIRP Data (LTE Band 13)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 220 of 270

LTE Band 71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.0	-2.00	1 / 50	23.90	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
		680.5	-2.00	1 / 50	23.65	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
		688.0	-2.00	1 / 0	23.90	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
	16-QAM	688.0	-2.00	1 / 0	23.03	18.88	0.077	34.77	-15.89	21.03	0.127	36.99	-15.96
	64-QAM	688.0	-2.00	1 / 0	22.52	18.37	0.069	34.77	-16.40	20.52	0.113	36.99	-16.47
256-QAM	688.0	-2.00	1 / 0	21.62	17.47	0.056	34.77	-17.30	19.62	0.092	36.99	-17.37	
15 MHz	QPSK	670.5	-2.00	1 / 37	23.90	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
		680.5	-2.00	1 / 0	23.87	19.72	0.094	34.77	-15.05	21.87	0.154	36.99	-15.12
		690.5	-2.00	1 / 0	23.85	19.70	0.093	34.77	-15.07	21.85	0.153	36.99	-15.14
	16-QAM	680.5	-2.00	1 / 0	23.37	19.22	0.084	34.77	-15.55	21.37	0.137	36.99	-15.62
	64-QAM	680.5	-2.00	1 / 0	22.83	18.68	0.074	34.77	-16.09	20.83	0.121	36.99	-16.16
256-QAM	680.5	-2.00	1 / 0	21.36	17.21	0.053	34.77	-17.56	19.36	0.086	36.99	-17.63	
10 MHz	QPSK	668.0	-2.00	1 / 25	23.90	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
		680.5	-2.00	1 / 25	23.89	19.74	0.094	34.77	-15.03	21.89	0.155	36.99	-15.10
		693.0	-2.00	1 / 25	23.90	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
	16-QAM	680.5	-2.00	1 / 25	23.36	19.21	0.083	34.77	-15.56	21.36	0.137	36.99	-15.63
	64-QAM	680.5	-2.00	1 / 25	22.77	18.62	0.073	34.77	-16.15	20.77	0.119	36.99	-16.22
256-QAM	680.5	-2.00	1 / 25	21.34	17.19	0.052	34.77	-17.58	19.34	0.086	36.99	-17.65	
5 MHz	QPSK	665.5	-2.00	1 / 12	23.90	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
		680.5	-2.00	1 / 24	23.90	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
		695.5	-2.00	1 / 12	23.85	19.70	0.093	34.77	-15.07	21.85	0.153	36.99	-15.14
	16-QAM	680.5	-2.00	1 / 12	23.52	19.37	0.086	34.77	-15.40	21.52	0.142	36.99	-15.47
	64-QAM	680.5	-2.00	1 / 12	22.99	18.84	0.077	34.77	-15.93	20.99	0.126	36.99	-16.00
256-QAM	680.5	-2.00	1 / 24	21.50	17.35	0.054	34.77	-17.42	19.50	0.089	36.99	-17.49	


Table 7-17. ERP/EIRP Data (LTE Band 71)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 221 of 270

NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	1720.0	-0.50	1 / 1	22.20	21.70	0.148	30.00	-8.30
		1745.0	-0.50	1 / 98	22.15	21.65	0.146	30.00	-8.35
		1770.0	-0.50	1 / 98	22.15	21.65	0.146	30.00	-8.35
	QPSK	1720.0	-0.50	1 / 50	22.18	21.68	0.147	30.00	-8.32
		1745.0	-0.50	1 / 1	22.19	21.69	0.148	30.00	-8.31
		1770.0	-0.50	1 / 50	22.06	21.56	0.143	30.00	-8.44
	16-QAM	1720.0	-0.50	1 / 50	21.71	21.21	0.132	30.00	-8.79
64-QAM	1720.0	-0.50	1 / 98	20.05	19.55	0.090	30.00	-10.45	
256-QAM	1745.0	-0.50	1 / 98	17.83	17.33	0.054	30.00	-12.67	
15 MHz	π/2 BPSK	1717.5	-0.50	1 / 1	22.14	21.64	0.146	30.00	-8.36
		1745.0	-0.50	1 / 73	21.93	21.43	0.139	30.00	-8.57
		1772.5	-0.50	1 / 73	22.15	21.65	0.146	30.00	-8.35
	QPSK	1717.5	-0.50	1 / 1	22.20	21.70	0.148	30.00	-8.30
		1745.0	-0.50	1 / 75	22.18	21.68	0.147	30.00	-8.32
		1772.5	-0.50	1 / 1	22.10	21.60	0.145	30.00	-8.40
	16-QAM	1745.0	-0.50	1 / 75	21.42	20.92	0.124	30.00	-9.08
64-QAM	1745.0	-0.50	1 / 1	19.81	19.31	0.085	30.00	-10.69	
256-QAM	1717.5	-0.50	1 / 75	18.06	17.56	0.057	30.00	-12.44	
10 MHz	π/2 BPSK	1715.0	-0.50	1 / 25	22.20	21.70	0.148	30.00	-8.30
		1745.0	-0.50	1 / 1	22.17	21.67	0.147	30.00	-8.33
		1775.0	-0.50	1 / 1	22.17	21.67	0.147	30.00	-8.33
	QPSK	1715.0	-0.50	1 / 25	22.16	21.66	0.146	30.00	-8.34
		1745.0	-0.50	1 / 25	22.13	21.63	0.146	30.00	-8.37
		1775.0	-0.50	1 / 48	22.17	21.67	0.147	30.00	-8.33
	16-QAM	1745.0	-0.50	1 / 1	21.60	21.10	0.129	30.00	-8.90
64-QAM	1715.0	-0.50	1 / 1	19.67	19.17	0.083	30.00	-10.83	
256-QAM	1715.0	-0.50	1 / 48	17.96	17.46	0.056	30.00	-12.54	
5 MHz	π/2 BPSK	1712.5	-0.50	1 / 23	22.20	21.70	0.148	30.00	-8.30
		1745.0	-0.50	1 / 1	21.98	21.48	0.141	30.00	-8.52
		1777.5	-0.50	1 / 12	22.19	21.69	0.148	30.00	-8.31
	QPSK	1712.5	-0.50	1 / 1	22.16	21.66	0.147	30.00	-8.34
		1745.0	-0.50	1 / 12	22.15	21.65	0.146	30.00	-8.35
		1777.5	-0.50	1 / 1	22.12	21.62	0.145	30.00	-8.38
	16-QAM	1712.5	-0.50	1 / 12	21.86	21.36	0.137	30.00	-8.64
64-QAM	1745.0	-0.50	25 / 0	19.83	19.33	0.086	30.00	-10.67	
256-QAM	1712.5	-0.50	1 / 12	18.20	17.70	0.059	30.00	-12.30	


Table 7-18. EIRP Data (NR Band n66 DFTs – OFDM)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 222 of 270

NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	TT/2 BPSK	673.0	-3.10	1 / 1	23.80	20.70	0.118	36.99	-16.29	18.55	0.072	34.77	-16.22
		680.5	-3.10	1 / 75	23.90	20.80	0.120	36.99	-16.19	18.65	0.073	34.77	-16.12
		688.0	-3.10	1 / 75	23.79	20.69	0.117	36.99	-16.30	18.54	0.071	34.77	-16.23
	QPSK	670.5	-3.10	1 / 73	23.90	20.80	0.120	36.99	-16.19	18.65	0.073	34.77	-16.12
		680.5	-3.10	1 / 73	23.73	20.63	0.116	36.99	-16.36	18.48	0.070	34.77	-16.29
		690.5	-3.10	1 / 73	23.80	20.70	0.118	36.99	-16.29	18.55	0.072	34.77	-16.22
		16-QAM	670.5	-3.10	1 / 73	23.73	20.63	0.115	36.99	-16.36	18.48	0.070	34.77
64-QAM	670.5	-3.10	1 / 73	21.47	18.37	0.069	36.99	-18.62	16.22	0.042	34.77	-18.55	
256-QAM	690.5	-3.10	1 / 75	19.43	16.33	0.043	36.99	-20.66	14.18	0.026	34.77	-20.59	
10 MHz	TT/2 BPSK	673.0	-3.10	1 / 48	23.87	20.77	0.119	36.99	-16.22	18.62	0.073	34.77	-16.15
		680.5	-3.10	1 / 1	23.90	20.80	0.120	36.99	-16.19	18.65	0.073	34.77	-16.12
		688.0	-3.10	1 / 48	23.70	20.60	0.115	36.99	-16.39	18.45	0.070	34.77	-16.32
	QPSK	668.0	-3.10	1 / 1	23.65	20.55	0.114	36.99	-16.44	18.40	0.069	34.77	-16.37
		680.5	-3.10	1 / 25	23.89	20.79	0.120	36.99	-16.20	18.64	0.073	34.77	-16.13
	693.0	-3.10	1 / 25	23.90	20.80	0.120	36.99	-16.19	18.65	0.073	34.77	-16.12	
	16-QAM	680.5	-3.10	1 / 1	23.20	20.10	0.102	36.99	-16.89	17.95	0.062	34.77	-16.82
64-QAM	680.5	-3.10	1 / 25	21.43	18.33	0.068	36.99	-18.66	16.18	0.041	34.77	-18.59	
256-QAM	680.5	-3.10	1 / 1	19.62	16.52	0.045	36.99	-20.47	14.37	0.027	34.77	-20.40	
5 MHz	TT/2 BPSK	673.0	-3.10	1 / 12	23.73	20.63	0.116	36.99	-16.36	18.48	0.071	34.77	-16.29
		680.5	-3.10	1 / 12	23.74	20.64	0.116	36.99	-16.35	18.49	0.071	34.77	-16.28
		688.0	-3.10	1 / 12	23.75	20.65	0.116	36.99	-16.34	18.50	0.071	34.77	-16.27
	QPSK	665.5	-3.10	1 / 1	23.81	20.71	0.118	36.99	-16.28	18.56	0.072	34.77	-16.21
		680.5	-3.10	1 / 1	23.90	20.80	0.120	36.99	-16.19	18.65	0.073	34.77	-16.12
	695.5	-3.10	1 / 1	23.75	20.65	0.116	36.99	-16.34	18.50	0.071	34.77	-16.27	
	16-QAM	665.5	-3.10	1 / 12	23.24	20.14	0.103	36.99	-16.85	17.99	0.063	34.77	-16.78
64-QAM	695.5	-3.10	1 / 1	21.45	18.35	0.068	36.99	-18.64	16.20	0.042	34.77	-18.57	
256-QAM	695.5	-3.10	1 / 1	19.70	16.60	0.046	36.99	-20.39	14.45	0.028	34.77	-20.32	

Table 7-19. ERP/EIRP Data (NR Band n12 DFT-s – OFDM)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 223 of 270

NR Band n71


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	673.0	-2.00	1 / 1	23.90	21.90	0.155	36.99	-15.09	19.75	0.094	34.77	-15.02
		680.5	-2.00	1 / 1	23.63	21.63	0.146	36.99	-15.36	19.48	0.089	34.77	-15.29
		688.0	-2.00	1 / 1	23.83	21.83	0.152	36.99	-15.16	19.68	0.093	34.77	-15.09
	QPSK	673.0	-2.00	1 / 50	23.83	21.83	0.152	36.99	-15.16	19.68	0.093	34.77	-15.09
		680.5	-2.00	1 / 1	23.88	21.88	0.154	36.99	-15.10	19.73	0.094	34.77	-15.04
		688.0	-2.00	1 / 1	23.88	21.88	0.154	36.99	-15.11	19.73	0.094	34.77	-15.04
	16-QAM	680.5	-2.00	1 / 98	23.04	21.04	0.127	36.99	-15.95	18.89	0.077	34.77	-15.88
	64-QAM	673.0	-2.00	100 / 0	21.40	19.40	0.087	36.99	-17.59	17.25	0.053	34.77	-17.53
256-QAM	680.5	-2.00	1 / 1	19.58	17.58	0.057	36.99	-19.41	15.43	0.035	34.77	-19.34	
15 MHz	π/2 BPSK	670.5	-2.00	1 / 75	23.75	21.75	0.149	36.99	-15.24	19.60	0.091	34.77	-15.18
		680.5	-2.00	1 / 1	23.83	21.83	0.152	36.99	-15.16	19.68	0.093	34.77	-15.09
		690.5	-2.00	1 / 1	23.90	21.90	0.155	36.99	-15.09	19.75	0.094	34.77	-15.02
	QPSK	670.5	-2.00	1 / 73	23.76	21.76	0.150	36.99	-15.23	19.61	0.091	34.77	-15.16
		680.5	-2.00	1 / 75	23.76	21.76	0.150	36.99	-15.23	19.61	0.091	34.77	-15.16
		690.5	-2.00	1 / 75	23.63	21.63	0.145	36.99	-15.36	19.48	0.089	34.77	-15.29
	16-QAM	670.5	-2.00	1 / 73	23.35	21.35	0.136	36.99	-15.64	19.20	0.083	34.77	-15.57
	64-QAM	690.5	-2.00	1 / 1	21.47	19.47	0.089	36.99	-17.52	17.32	0.054	34.77	-17.45
256-QAM	680.5	-2.00	1 / 75	19.53	17.53	0.057	36.99	-19.46	15.38	0.035	34.77	-19.39	
10 MHz	π/2 BPSK	668.0	-2.00	1 / 25	23.89	21.89	0.154	36.99	-15.10	19.74	0.094	34.77	-15.03
		680.5	-2.00	1 / 1	23.57	21.57	0.144	36.99	-15.42	19.42	0.088	34.77	-15.35
		693.0	-2.00	1 / 1	23.90	21.90	0.155	36.99	-15.09	19.75	0.094	34.77	-15.02
	QPSK	668.0	-2.00	1 / 48	23.78	21.78	0.151	36.99	-15.21	19.63	0.092	34.77	-15.14
		680.5	-2.00	1 / 1	23.68	21.68	0.147	36.99	-15.31	19.53	0.090	34.77	-15.24
		693.0	-2.00	1 / 48	23.79	21.79	0.151	36.99	-15.20	19.64	0.092	34.77	-15.13
	16-QAM	693.0	-2.00	1 / 25	22.87	20.87	0.122	36.99	-16.12	18.72	0.074	34.77	-16.05
	64-QAM	680.5	-2.00	1 / 1	21.51	19.51	0.089	36.99	-17.48	17.36	0.054	34.77	-17.41
256-QAM	668.0	-2.00	50 / 0	19.54	17.54	0.057	36.99	-19.45	15.39	0.035	34.77	-19.39	
5 MHz	π/2 BPSK	665.5	-2.00	1 / 1	23.90	21.90	0.155	36.99	-15.09	19.75	0.094	34.77	-15.02
		680.5	-2.00	1 / 1	23.83	21.83	0.152	36.99	-15.16	19.68	0.093	34.77	-15.09
		695.5	-2.00	1 / 1	23.85	21.85	0.153	36.99	-15.14	19.70	0.093	34.77	-15.07
	QPSK	665.5	-2.00	1 / 23	23.89	21.89	0.155	36.99	-15.10	19.74	0.094	34.77	-15.03
		680.5	-2.00	1 / 23	23.89	21.89	0.155	36.99	-15.10	19.74	0.094	34.77	-15.03
		695.5	-2.00	1 / 23	23.59	21.59	0.144	36.99	-15.40	19.44	0.088	34.77	-15.33
	16-QAM	680.5	-2.00	1 / 23	23.25	21.25	0.133	36.99	-15.74	19.10	0.081	34.77	-15.67
	64-QAM	665.5	-2.00	25 / 0	21.46	19.46	0.088	36.99	-17.53	17.31	0.054	34.77	-17.47
256-QAM	665.5	-2.00	1 / 1	19.57	17.57	0.057	36.99	-19.42	15.42	0.035	34.77	-19.35	

Table 7-20. ERP/EIRP Data (NR Band n71 DFT-s – OFDM)

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	22.00	-0.50	21.50	0.141	30.00	-8.50
1732.60	WCDMA1700	22.09	-0.50	21.59	0.144	30.00	-8.41
1752.60	WCDMA1700	22.12	-0.50	21.62	0.145	30.00	-8.38

Table 7-21. EIRP Data (WCDMA AWS)


FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 224 of 270

7.6.3 Antenna 4b – EIRP

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	-4.10	1 / 50	25.20	21.10	0.129	30.00	-8.90
		1732.5	-4.10	1 / 50	25.08	20.98	0.125	30.00	-9.02
		1745.0	-4.10	1 / 50	24.95	20.85	0.122	30.00	-9.15
	16-QAM	1732.5	-4.10	1 / 50	24.74	20.64	0.116	30.00	-9.36
	64-QAM	1720.0	-4.10	1 / 99	23.74	19.64	0.092	30.00	-10.36
256-QAM	1720.0	-4.10	1 / 99	21.09	16.99	0.050	30.00	-13.01	
15 MHz	QPSK	1717.5	-4.10	1 / 37	25.16	21.06	0.128	30.00	-8.94
		1732.5	-4.10	1 / 37	25.01	20.91	0.123	30.00	-9.09
		1747.5	-4.10	1 / 37	25.20	21.10	0.129	30.00	-8.90
	16-QAM	1717.5	-4.10	1 / 37	24.79	20.69	0.117	30.00	-9.31
	64-QAM	1747.5	-4.10	1 / 37	24.07	19.97	0.099	30.00	-10.03
	256-QAM	1717.5	-4.10	75 / 0	21.01	16.91	0.049	30.00	-13.09
1747.5	-4.10	1 / 37	21.01	16.91	0.049	30.00	-13.09		
10 MHz	QPSK	1715.0	-4.10	1 / 49	25.09	20.99	0.126	30.00	-9.01
		1732.5	-4.10	1 / 49	25.03	20.93	0.124	30.00	-9.07
		1750.0	-4.10	1 / 49	25.20	21.10	0.129	30.00	-8.90
	16-QAM	1750.0	-4.10	1 / 49	24.70	20.60	0.115	30.00	-9.40
	64-QAM	1750.0	-4.10	1 / 0	24.21	20.11	0.103	30.00	-9.89
256-QAM	1715.0	-4.10	50 / 0	21.06	16.96	0.050	30.00	-13.04	
5 MHz	QPSK	1712.5	-4.10	1 / 24	25.04	20.94	0.124	30.00	-9.06
		1732.5	-4.10	1 / 12	25.19	21.09	0.129	30.00	-8.91
		1752.5	-4.10	1 / 24	25.20	21.10	0.129	30.00	-8.90
	16-QAM	1712.5	-4.10	1 / 24	24.70	20.60	0.115	30.00	-9.40
	64-QAM	1752.5	-4.10	25 / 0	24.27	20.17	0.104	30.00	-9.83
	256-QAM	1732.5	-4.10	1 / 24	21.21	17.11	0.051	30.00	-12.89
3 MHz	QPSK	1711.5	-4.10	1 / 14	25.20	21.10	0.129	30.00	-8.90
		1732.5	-4.10	1 / 0	24.94	20.84	0.121	30.00	-9.16
		1753.5	-4.10	1 / 7	25.20	21.10	0.129	30.00	-8.90
	16-QAM	1711.5	-4.10	1 / 14	24.76	20.66	0.116	30.00	-9.34
	64-QAM	1753.5	-4.10	15 / 0	24.61	20.51	0.112	30.00	-9.49
256-QAM	1732.5	-4.10	1 / 14	21.23	17.13	0.052	30.00	-12.87	
1.4 MHz	QPSK	1710.7	-4.10	1 / 0	25.02	20.92	0.124	30.00	-9.08
		1732.5	-4.10	1 / 3	25.20	21.10	0.129	30.00	-8.90
		1754.3	-4.10	1 / 0	25.20	21.10	0.129	30.00	-8.90
	16-QAM	1710.7	-4.10	1 / 0	24.63	20.53	0.113	30.00	-9.47
	64-QAM	1732.5	-4.10	6 / 0	24.36	20.26	0.106	30.00	-9.74
	256-QAM	1732.5	-4.10	6 / 0	21.00	16.90	0.049	30.00	-13.10


Table 7-22. EIRP Data (LTE Band 4)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 225 of 270

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	-4.10	1 / 50	25.02	20.92	0.124	30.00	-9.08
		1745.0	-4.10	1 / 50	25.20	21.10	0.129	30.00	-8.90
		1770.0	-4.10	1 / 50	25.03	20.93	0.124	30.00	-9.07
	16-QAM	1745.0	-4.10	1 / 50	24.95	20.85	0.122	30.00	-9.15
	64-QAM	1770.0	-4.10	1 / 0	23.70	19.60	0.091	30.00	-10.40
	256-QAM	1770.0	-4.10	1 / 50	20.71	16.61	0.046	30.00	-13.39
15 MHz	QPSK	1717.5	-4.10	1 / 0	25.20	21.10	0.129	30.00	-8.90
		1745.0	-4.10	1 / 0	25.01	20.91	0.123	30.00	-9.09
		1772.5	-4.10	1 / 37	25.12	21.02	0.126	30.00	-8.98
	16-QAM	1745.0	-4.10	1 / 37	24.85	20.75	0.119	30.00	-9.25
	64-QAM	1717.5	-4.10	1 / 0	23.92	19.82	0.096	30.00	-10.18
	256-QAM	1717.5	-4.10	1 / 0	21.04	16.94	0.049	30.00	-13.06
10 MHz	QPSK	1715.0	-4.10	1 / 25	25.20	21.10	0.129	30.00	-8.90
		1745.0	-4.10	1 / 25	25.19	21.09	0.129	30.00	-8.91
		1775.0	-4.10	1 / 25	25.10	21.00	0.126	30.00	-9.00
	16-QAM	1715.0	-4.10	1 / 25	24.52	20.42	0.110	30.00	-9.58
	64-QAM	1715.0	-4.10	1 / 25	23.16	19.06	0.081	30.00	-10.94
	256-QAM	1745.0	-4.10	50 / 0	21.14	17.04	0.051	30.00	-12.96
5 MHz	QPSK	1712.5	-4.10	1 / 24	25.20	21.10	0.129	30.00	-8.90
		1745.0	-4.10	1 / 24	25.10	21.00	0.126	30.00	-9.00
		1777.5	-4.10	1 / 12	25.08	20.98	0.125	30.00	-9.02
	16-QAM	1745.0	-4.10	1 / 24	24.27	20.17	0.104	30.00	-9.83
	64-QAM	1745.0	-4.10	1 / 24	23.21	19.11	0.081	30.00	-10.89
	256-QAM	1712.5	-4.10	25 / 0	21.10	17.00	0.050	30.00	-13.00
3 MHz	QPSK	1711.5	-4.10	1 / 7	25.20	21.10	0.129	30.00	-8.90
		1745.0	-4.10	15 / 0	25.08	20.98	0.125	30.00	-9.02
		1778.5	-4.10	1 / 7	24.98	20.88	0.122	30.00	-9.12
	16-QAM	1711.5	-4.10	1 / 7	24.47	20.37	0.109	30.00	-9.63
	64-QAM	1711.5	-4.10	15 / 0	23.10	19.00	0.079	30.00	-11.00
	256-QAM	1711.5	-4.10	15 / 0	21.08	16.98	0.050	30.00	-13.02
1.4 MHz	QPSK	1710.7	-4.10	1 / 3	25.20	21.10	0.129	30.00	-8.90
		1745.0	-4.10	6 / 0	25.12	21.02	0.126	30.00	-8.98
		1779.3	-4.10	1 / 3	25.04	20.94	0.124	30.00	-9.06
	16-QAM	1710.7	-4.10	1 / 3	24.46	20.36	0.109	30.00	-9.64
	64-QAM	1710.7	-4.10	1 / 5	23.39	19.29	0.085	30.00	-10.71
	256-QAM	1745.0	-4.10	6 / 0	21.07	16.97	0.050	30.00	-13.03

Table 7-23. EIRP Data (LTE Band 66)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 226 of 270

NR Band n66


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	1720.0	-4.10	1 / 50	24.67	20.57	0.114	30.00	-9.43
		1745.0	-4.10	1 / 98	25.00	20.90	0.123	30.00	-9.10
		1770.0	-4.10	1 / 50	24.70	20.60	0.115	30.00	-9.40
	QPSK	1720.0	-4.10	1 / 1	25.20	21.10	0.129	30.00	-8.90
		1745.0	-4.10	1 / 1	24.86	20.76	0.119	30.00	-9.24
		1770.0	-4.10	1 / 1	24.92	20.82	0.121	30.00	-9.18
	16-QAM	1770.0	-4.10	1 / 1	24.00	19.90	0.098	30.00	-10.10
64-QAM	1720.0	-4.10	1 / 50	23.44	19.34	0.086	30.00	-10.66	
256-QAM	1745.0	-4.10	100 / 0	21.43	17.33	0.054	30.00	-12.67	
15 MHz	π/2 BPSK	1717.5	-4.10	1 / 73	25.16	21.06	0.128	30.00	-8.94
		1745.0	-4.10	1 / 1	25.19	21.09	0.129	30.00	-8.91
		1772.5	-4.10	1 / 73	25.06	20.96	0.125	30.00	-9.04
	QPSK	1717.5	-4.10	1 / 73	25.00	20.90	0.123	30.00	-9.10
		1745.0	-4.10	1 / 1	25.20	21.10	0.129	30.00	-8.90
		1772.5	-4.10	1 / 75	25.19	21.09	0.129	30.00	-8.91
	16-QAM	1745.0	-4.10	1 / 73	24.38	20.28	0.107	30.00	-9.72
64-QAM	1772.5	-4.10	1 / 73	23.10	19.00	0.079	30.00	-11.00	
256-QAM	1717.5	-4.10	75 / 0	21.41	17.31	0.054	30.00	-12.69	
10 MHz	π/2 BPSK	1715.0	-4.10	1 / 48	25.12	21.02	0.127	30.00	-8.98
		1745.0	-4.10	1 / 1	25.08	20.98	0.125	30.00	-9.02
		1775.0	-4.10	1 / 25	25.00	20.90	0.123	30.00	-9.10
	QPSK	1715.0	-4.10	1 / 25	25.11	21.01	0.126	30.00	-8.99
		1745.0	-4.10	1 / 48	25.20	21.10	0.129	30.00	-8.90
		1775.0	-4.10	1 / 48	25.19	21.09	0.129	30.00	-8.91
	16-QAM	1775.0	-4.10	1 / 25	24.22	20.12	0.103	30.00	-9.88
64-QAM	1715.0	-4.10	1 / 1	22.71	18.61	0.073	30.00	-11.39	
256-QAM	1715.0	-4.10	1 / 1	20.94	16.84	0.048	30.00	-13.16	
5 MHz	π/2 BPSK	1712.5	-4.10	1 / 23	25.16	21.06	0.128	30.00	-8.94
		1745.0	-4.10	1 / 12	25.20	21.10	0.129	30.00	-8.90
		1777.5	-4.10	1 / 1	25.11	21.01	0.126	30.00	-8.99
	QPSK	1712.5	-4.10	1 / 1	25.06	20.96	0.125	30.00	-9.04
		1745.0	-4.10	1 / 23	25.04	20.94	0.124	30.00	-9.06
		1777.5	-4.10	1 / 12	25.02	20.92	0.123	30.00	-9.08
	16-QAM	1745.0	-4.10	1 / 12	24.57	20.47	0.111	30.00	-9.53
64-QAM	1745.0	-4.10	1 / 12	22.98	18.88	0.077	30.00	-11.12	
256-QAM	1777.5	-4.10	1 / 1	20.85	16.75	0.047	30.00	-13.25	

Table 7-24. EIRP Data (NR Band n66 DFTs – OFDM)

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	25.11	-4.10	21.01	0.126	30.00	-8.99
1732.60	WCDMA1700	25.09	-4.10	20.99	0.126	30.00	-9.01
1752.60	WCDMA1700	25.00	-4.10	20.90	0.123	30.00	-9.10

Table 7-25. EIRP Data (WCDMA AWS)


FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 227 of 270

7.6.4 Antenna 2b – EIRP

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	-5.50	1 / 50	22.20	16.70	0.047	30.00	-13.30
		1732.5	-5.50	1 / 50	22.20	16.70	0.047	30.00	-13.30
		1745.0	-5.50	1 / 50	21.95	16.45	0.044	30.00	-13.55
	16-QAM	1720.0	-5.50	1 / 99	21.81	16.31	0.043	30.00	-13.69
	64-QAM	1720.0	-5.50	1 / 0	21.05	15.55	0.036	30.00	-14.45
256-QAM	1720.0	-5.50	1 / 0	18.78	13.28	0.021	30.00	-16.72	
15 MHz	QPSK	1717.5	-5.50	1 / 37	22.19	16.69	0.047	30.00	-13.31
		1732.5	-5.50	1 / 74	22.20	16.70	0.047	30.00	-13.30
		1747.5	-5.50	1 / 37	22.08	16.58	0.045	30.00	-13.42
	16-QAM	1732.5	-5.50	1 / 0	21.57	16.07	0.040	30.00	-13.93
	64-QAM	1732.5	-5.50	1 / 0	20.84	15.34	0.034	30.00	-14.66
256-QAM	1732.5	-5.50	1 / 0	19.31	13.81	0.024	30.00	-16.19	
10 MHz	QPSK	1715.0	-5.50	1 / 49	22.20	16.70	0.047	30.00	-13.30
		1732.5	-5.50	1 / 25	22.12	16.62	0.046	30.00	-13.38
		1750.0	-5.50	1 / 0	22.08	16.58	0.045	30.00	-13.42
	16-QAM	1732.5	-5.50	1 / 0	21.60	16.10	0.041	30.00	-13.90
	64-QAM	1732.5	-5.50	1 / 49	20.85	15.35	0.034	30.00	-14.65
256-QAM	1732.5	-5.50	1 / 49	19.33	13.83	0.024	30.00	-16.17	
5 MHz	QPSK	1712.5	-5.50	1 / 24	22.15	16.65	0.046	30.00	-13.35
		1732.5	-5.50	1 / 24	22.20	16.70	0.047	30.00	-13.30
		1752.5	-5.50	1 / 24	22.04	16.54	0.045	30.00	-13.46
	16-QAM	1732.5	-5.50	1 / 12	21.75	16.25	0.042	30.00	-13.75
	64-QAM	1732.5	-5.50	1 / 12	21.00	15.50	0.035	30.00	-14.50
256-QAM	1732.5	-5.50	1 / 12	19.51	14.01	0.025	30.00	-15.99	
3 MHz	QPSK	1711.5	-5.50	1 / 0	22.11	16.61	0.046	30.00	-13.39
		1732.5	-5.50	1 / 14	22.20	16.70	0.047	30.00	-13.30
		1753.5	-5.50	1 / 14	22.07	16.57	0.045	30.00	-13.43
	16-QAM	1732.5	-5.50	1 / 0	21.52	16.02	0.040	30.00	-13.98
	64-QAM	1732.5	-5.50	1 / 0	20.80	15.30	0.034	30.00	-14.70
256-QAM	1732.5	-5.50	1 / 0	19.27	13.77	0.024	30.00	-16.23	
1.4 MHz	QPSK	1710.7	-5.50	1 / 5	22.20	16.70	0.047	30.00	-13.30
		1732.5	-5.50	1 / 0	22.06	16.56	0.045	30.00	-13.44
		1754.3	-5.50	1 / 3	22.18	16.68	0.047	30.00	-13.32
	16-QAM	1732.5	-5.50	1 / 0	21.58	16.08	0.041	30.00	-13.92
	64-QAM	1732.5	-5.50	1 / 0	20.82	15.32	0.034	30.00	-14.68
256-QAM	1732.5	-5.50	1 / 0	19.38	13.88	0.024	30.00	-16.12	


Table 7-26. EIRP Data (LTE Band 4)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 228 of 270

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	-5.50	1 / 50	22.20	16.70	0.047	30.00	-13.30
		1745.0	-5.50	1 / 50	21.92	16.42	0.044	30.00	-13.58
		1770.0	-5.50	1 / 50	22.16	16.66	0.046	30.00	-13.34
	16-QAM	1770.0	-5.50	1 / 0	21.86	16.36	0.043	30.00	-13.64
	64-QAM	1745.0	-5.50	1 / 99	20.96	15.46	0.035	30.00	-14.54
	256-QAM	1720.0	-5.50	100 / 0	17.74	12.24	0.017	30.00	-17.76
15 MHz	QPSK	1717.5	-5.50	1 / 0	22.20	16.70	0.047	30.00	-13.30
		1745.0	-5.50	1 / 0	22.11	16.61	0.046	30.00	-13.39
		1772.5	-5.50	1 / 37	22.11	16.61	0.046	30.00	-13.39
	16-QAM	1745.0	-5.50	1 / 0	21.60	16.10	0.041	30.00	-13.90
	64-QAM	1717.5	-5.50	1 / 0	20.86	15.36	0.034	30.00	-14.64
	256-QAM	1772.5	-5.50	1 / 0	17.75	12.25	0.017	30.00	-17.75
10 MHz	QPSK	1715.0	-5.50	1 / 25	22.13	16.63	0.046	30.00	-13.37
		1745.0	-5.50	1 / 25	22.20	16.70	0.047	30.00	-13.30
		1775.0	-5.50	1 / 25	22.18	16.68	0.047	30.00	-13.32
	16-QAM	1745.0	-5.50	1 / 25	21.71	16.21	0.042	30.00	-13.79
	64-QAM	1775.0	-5.50	1 / 0	20.59	15.09	0.032	30.00	-14.91
	256-QAM	1775.0	-5.50	1 / 0	17.88	12.38	0.017	30.00	-17.62
5 MHz	QPSK	1712.5	-5.50	1 / 24	21.90	16.40	0.044	30.00	-13.60
		1745.0	-5.50	1 / 24	22.20	16.70	0.047	30.00	-13.30
		1777.5	-5.50	1 / 12	21.96	16.46	0.044	30.00	-13.54
	16-QAM	1745.0	-5.50	25 / 0	21.34	15.84	0.038	30.00	-14.16
	64-QAM	1745.0	-5.50	25 / 0	20.58	15.08	0.032	30.00	-14.92
	256-QAM	1745.0	-5.50	1 / 0	17.89	12.39	0.017	30.00	-17.61
3 MHz	QPSK	1711.5	-5.50	1 / 0	22.20	16.70	0.047	30.00	-13.30
		1745.0	-5.50	1 / 0	22.10	16.60	0.046	30.00	-13.40
		1778.5	-5.50	1 / 0	22.20	16.70	0.047	30.00	-13.30
	16-QAM	1711.5	-5.50	1 / 7	21.12	15.62	0.036	30.00	-14.38
	64-QAM	1778.5	-5.50	15 / 0	20.73	15.23	0.033	30.00	-14.77
	256-QAM	1745.0	-5.50	15 / 0	17.72	12.22	0.017	30.00	-17.78
1.4 MHz	QPSK	1710.7	-5.50	1 / 5	21.80	16.30	0.043	30.00	-13.70
		1745.0	-5.50	1 / 3	21.85	16.35	0.043	30.00	-13.65
		1779.3	-5.50	1 / 0	22.20	16.70	0.047	30.00	-13.30
	16-QAM	1779.3	-5.50	6 / 0	20.95	15.45	0.035	30.00	-14.55
	64-QAM	1779.3	-5.50	6 / 0	20.20	14.70	0.030	30.00	-15.30
	256-QAM	1710.7	-5.50	6 / 0	17.66	12.16	0.016	30.00	-17.84

Table 7-27. EIRP Data (LTE Band 66)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 229 of 270

NR Band n66


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	1720.0	-5.50	1 / 1	21.84	16.34	0.043	30.00	-13.66
		1745.0	-5.50	1 / 98	22.19	16.69	0.047	30.00	-13.31
		1770.0	-5.50	1 / 98	22.19	16.69	0.047	30.00	-13.31
	QPSK	1720.0	-5.50	1 / 1	22.01	16.51	0.045	30.00	-13.49
		1745.0	-5.50	1 / 98	22.20	16.70	0.047	30.00	-13.30
		1770.0	-5.50	1 / 98	21.88	16.38	0.043	30.00	-13.62
	16-QAM	1770.0	-5.50	1 / 1	21.55	16.05	0.040	30.00	-13.95
64-QAM	1745.0	-5.50	1 / 50	20.26	14.76	0.030	30.00	-15.24	
256-QAM	1770.0	-5.50	1 / 1	18.64	13.14	0.021	30.00	-16.86	
15 MHz	π/2 BPSK	1717.5	-5.50	1 / 73	22.15	16.65	0.046	30.00	-13.35
		1745.0	-5.50	1 / 75	22.12	16.62	0.046	30.00	-13.38
		1772.5	-5.50	1 / 73	22.17	16.67	0.046	30.00	-13.33
	QPSK	1717.5	-5.50	1 / 73	21.98	16.48	0.044	30.00	-13.52
		1745.0	-5.50	1 / 73	22.11	16.61	0.046	30.00	-13.39
		1772.5	-5.50	1 / 1	22.20	16.70	0.047	30.00	-13.30
	16-QAM	1745.0	-5.50	1 / 75	21.43	15.93	0.039	30.00	-14.07
64-QAM	1717.5	-5.50	1 / 75	20.34	14.84	0.030	30.00	-15.16	
256-QAM	1745.0	-5.50	75 / 0	17.98	12.48	0.018	30.00	-17.52	
10 MHz	π/2 BPSK	1715.0	-5.50	1 / 25	22.14	16.64	0.046	30.00	-13.36
		1745.0	-5.50	1 / 1	22.19	16.69	0.047	30.00	-13.31
		1775.0	-5.50	1 / 25	21.91	16.41	0.044	30.00	-13.59
	QPSK	1715.0	-5.50	1 / 25	22.13	16.63	0.046	30.00	-13.37
		1745.0	-5.50	1 / 25	22.20	16.70	0.047	30.00	-13.30
		1775.0	-5.50	1 / 48	22.13	16.63	0.046	30.00	-13.37
	16-QAM	1745.0	-5.50	1 / 48	21.62	16.12	0.041	30.00	-13.88
64-QAM	1715.0	-5.50	1 / 25	20.16	14.66	0.029	30.00	-15.34	
256-QAM	1745.0	-5.50	1 / 48	18.16	12.66	0.018	30.00	-17.34	
5 MHz	π/2 BPSK	1712.5	-5.50	1 / 12	22.16	16.66	0.046	30.00	-13.34
		1745.0	-5.50	1 / 1	22.20	16.70	0.047	30.00	-13.30
		1777.5	-5.50	1 / 12	22.16	16.66	0.046	30.00	-13.34
	QPSK	1712.5	-5.50	1 / 23	22.13	16.63	0.046	30.00	-13.37
		1745.0	-5.50	1 / 23	22.19	16.69	0.047	30.00	-13.31
		1777.5	-5.50	1 / 1	22.19	16.69	0.047	30.00	-13.31
	16-QAM	1777.5	-5.50	1 / 1	21.65	16.15	0.041	30.00	-13.85
64-QAM	1745.0	-5.50	1 / 12	19.86	14.36	0.027	30.00	-15.64	
256-QAM	1745.0	-5.50	25 / 0	17.90	12.40	0.017	30.00	-17.60	

Table 7-28. EIRP Data (NR Band n66 DFTs – OFDM)

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	22.00	-5.50	16.50	0.045	30.00	-13.50
1732.60	WCDMA1700	22.10	-5.50	16.60	0.046	30.00	-13.40
1752.60	WCDMA1700	22.20	-5.50	16.70	0.047	30.00	-13.30

Table 7-29. EIRP Data (WCDMA AWS)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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7.7 Radiated Spurious Emissions

§2.1053, §27.53(f)

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 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
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.

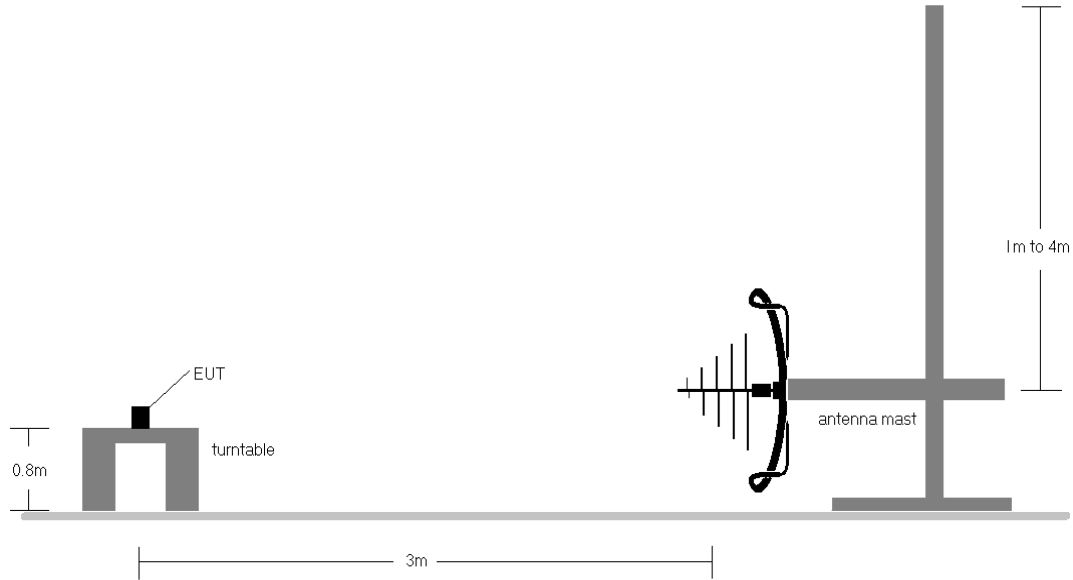


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

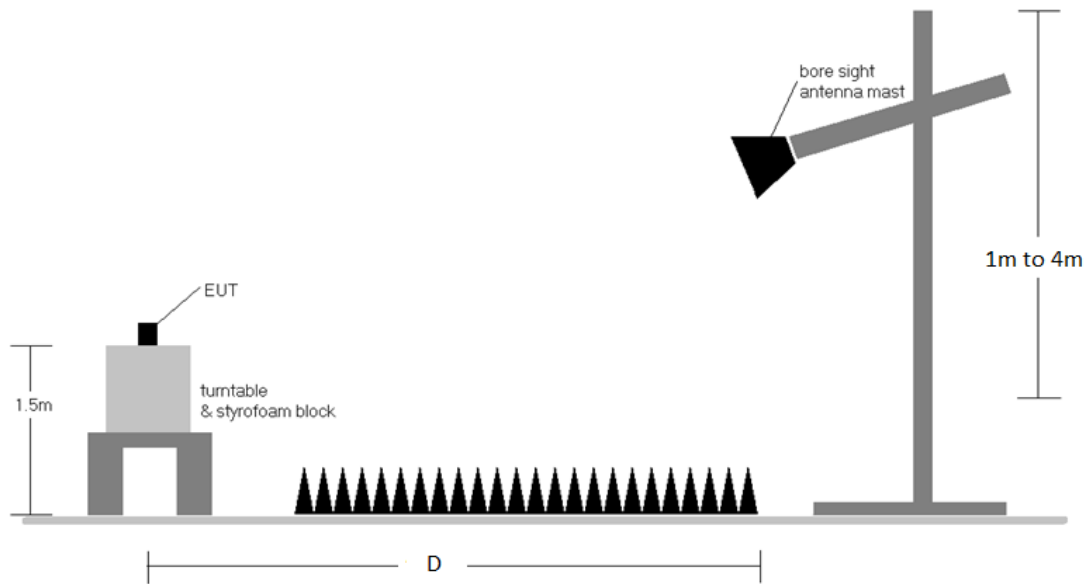



Figure 7-7. Test Instrument & Measurement Setup > 1GHz

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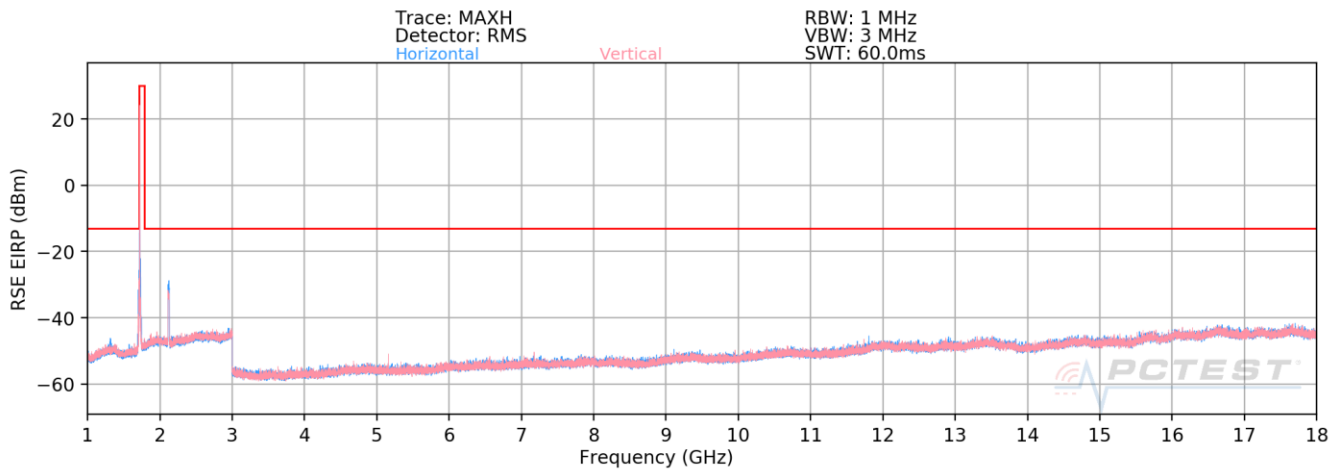
Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - b) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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.
- 3) This unit was tested with its standard battery.
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 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) D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 8) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 9) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been included in this section. Spurious emissions from the NR and LTE carriers are subject to their own respective limits.

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7.7.1 Antenna 3 – Radiated Spurious Emission Measurement

LTE Band 66/4



Plot 7-366. Radiated Spurious Emission 1GHz – 18GHz (LTE Band 66/4)

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Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / 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]	Limit [dBm]	Margin [dB]
3440.0	V	319	182	-76.48	1.92	32.44	-62.82	-13.00	-49.82
5160.0	V	197	105	-76.89	6.46	36.57	-58.69	-13.00	-45.69
6880.0	-	-	-	-80.47	8.31	34.84	-60.41	-13.00	-47.41
8600.0	-	-	-	-81.31	9.59	35.28	-59.98	-13.00	-46.98
10320.0	-	-	-	-81.32	12.22	37.90	-57.36	-13.00	-44.36

Table 7-30. Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / 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]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-78.96	4.13	32.17	-63.09	-13.00	-50.09
5235.0	V	104	199	-77.10	6.46	36.36	-58.90	-13.00	-45.90
6980.0	V	-	-	-80.06	8.31	35.25	-60.00	-13.00	-47.00
8725.0	V	-	-	-80.93	9.59	35.66	-59.60	-13.00	-46.60
10470.0	V	-	-	-81.34	12.22	37.88	-57.38	-13.00	-44.38

Table 7-31. Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

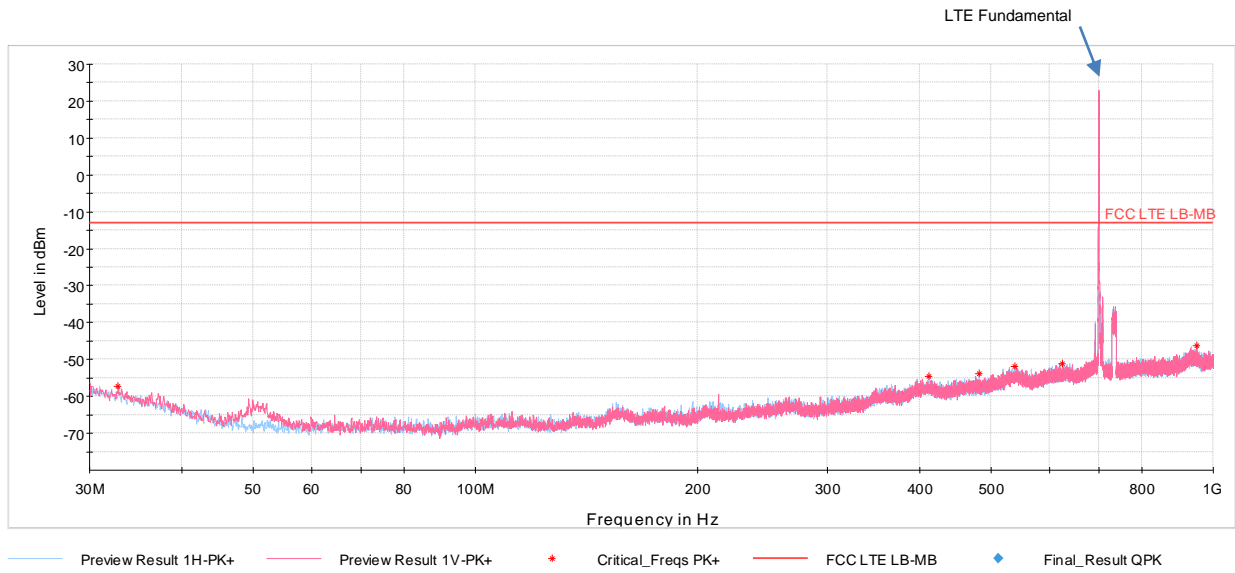
Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

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]	Limit [dBm]	Margin [dB]
3540.00	V	-	-	-79.14	4.13	31.99	-63.27	-13.00	-50.27
5310.00	V	104	218	-76.94	6.46	36.52	-58.74	-13.00	-45.74
7080.00	V	-	-	-80.27	8.31	35.04	-60.21	-13.00	-47.21
8850.00	V	-	-	-81.27	9.59	35.32	-59.94	-13.00	-46.94
10620.00	V	-	-	-80.94	12.22	38.28	-56.98	-13.00	-43.98

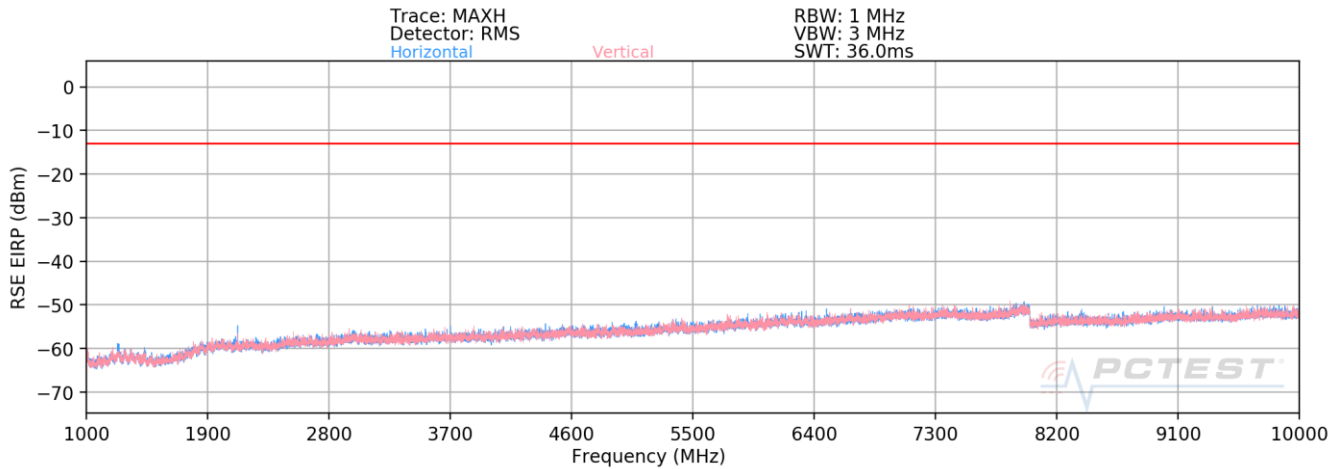
Table 7-32. Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 12/17



Plot 7-367. Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-368. Radiated Spurious Emission above 1GHz (LTE Band 12/17)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Bandwidth (MHz):	10
Frequency (MHz):	704.0
RB / Offset:	1 / 25

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]	Limit [dBm]	Margin [dB]
1408.0	V	-	-	-74.89	-4.41	27.70	-67.55	-13.00	-54.55
2112.0	H	369	196	-71.02	-0.73	35.25	-60.01	-13.00	-47.01
2816.0	V	-	-	-76.37	0.45	31.08	-64.18	-13.00	-51.18
3520.0	V	-	-	-77.09	1.84	31.75	-63.51	-13.00	-50.51
4224.0	V	-	-	-77.74	3.07	32.33	-62.93	-13.00	-49.93

Table 7-33. Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25


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]	Limit [dBm]	Margin [dB]
1415.0	V	-	-	-74.90	-4.44	27.66	-67.59	-13.00	-54.59
2122.5	H	292	194	-71.18	-0.68	35.14	-60.12	-13.00	-47.12
2830.0	V	-	-	-76.07	0.56	31.49	-63.77	-13.00	-50.77
3537.5	V	-	-	-77.07	1.99	31.92	-63.34	-13.00	-50.34
4245.0	V	-	-	-77.56	3.27	32.71	-62.55	-13.00	-49.55

Table 7-34. Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

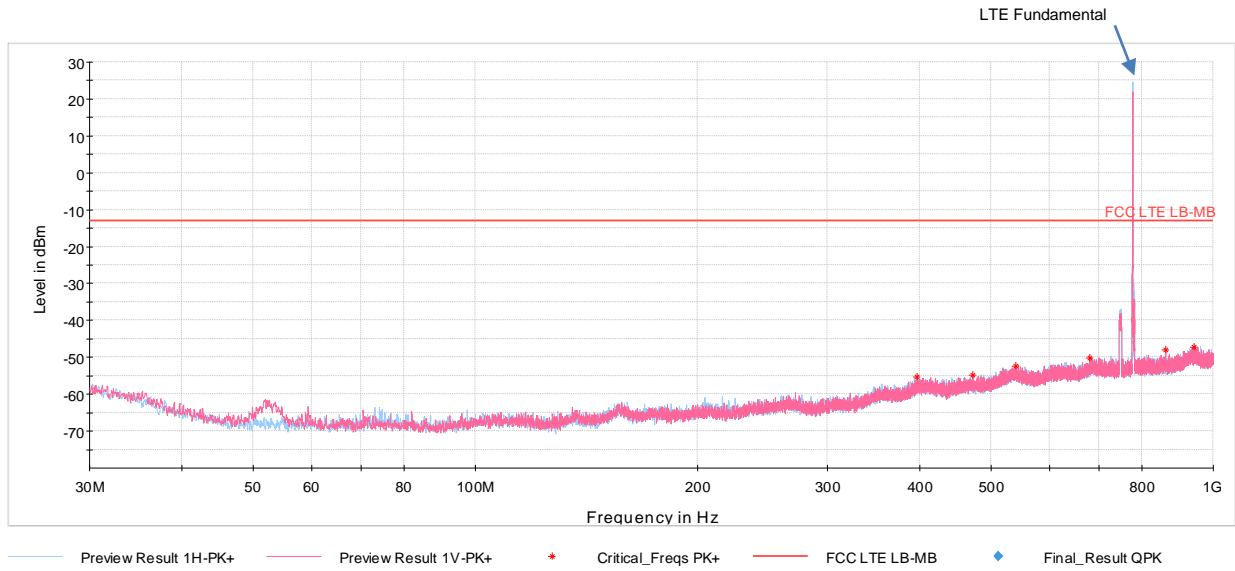
Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

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]	Limit [dBm]	Margin [dB]
1422.0	V	-	-	-75.01	-4.42	27.57	-67.68	-13.00	-54.68
2133.0	H	325	190	-72.19	-0.51	34.30	-60.96	-13.00	-47.96
2844.0	H	-	-	-76.15	0.78	31.63	-63.63	-13.00	-50.63
3555.0	H	-	-	-76.87	1.98	32.11	-63.14	-13.00	-50.14
4266.0	H	-	-	-77.67	3.27	32.60	-62.66	-13.00	-49.66

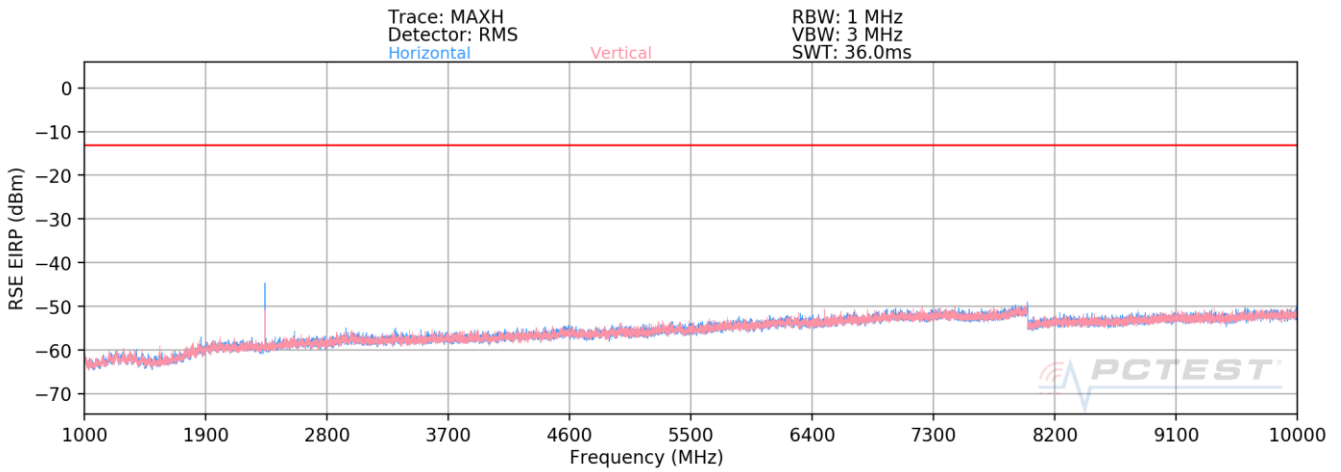
Table 7-35. Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 13



Plot 7-369. Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-370. Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCGA2301	PCTEST Proud to be part of element		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 25

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]	Limit [dBm]	Margin [dB]
1559.0	H	234	229	-64.18	-0.97	41.85	-53.40	-40.00	-13.40
2338.5	-	-	-	-76.44	1.16	31.72	-63.54	-13.00	-50.54
3118.0	-	-	-	-77.04	2.48	32.44	-62.82	-13.00	-49.82
3897.5	-	-	-	-77.51	3.87	33.36	-61.90	-13.00	-48.90

Table 7-36. Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	782.0
RB / Offset:	1 / 25


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]	Limit [dBm]	Margin [dB]
1564.0	-	-	-	-75.87	-1.00	30.13	-65.13	-40.00	-25.13
2346.0	-	-	-	-76.21	0.99	31.78	-63.48	-13.00	-50.48
3128.0	-	-	-	-76.79	2.59	32.80	-62.46	-13.00	-49.46

Table 7-37. Radiated Spurious Data (LTE Band 13 – Mid Channel)

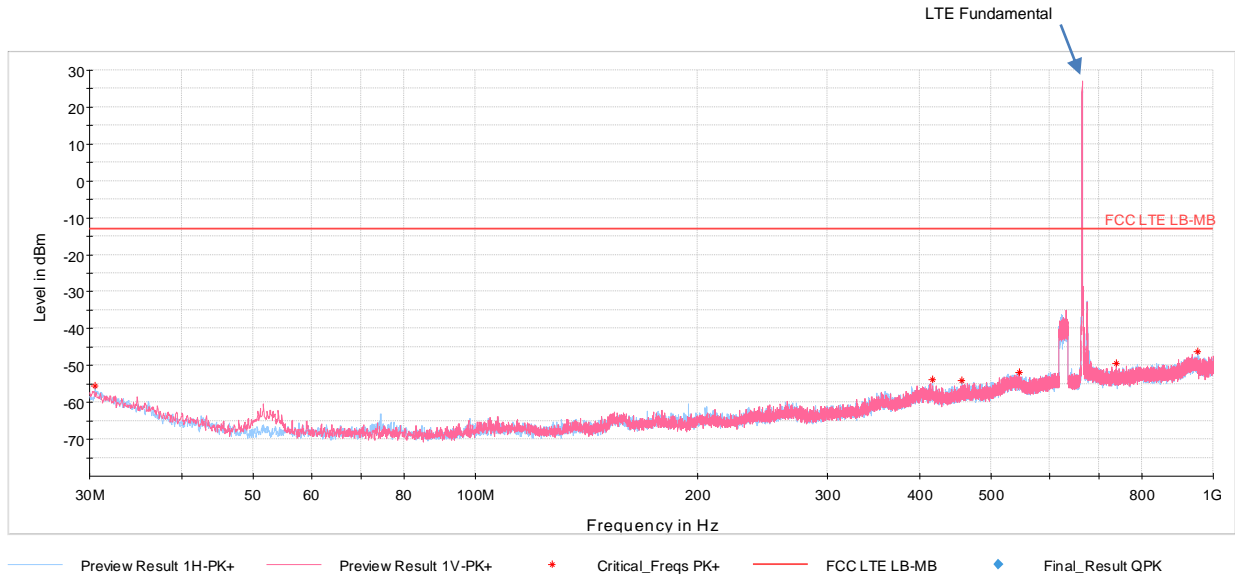
Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 25

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]	Limit [dBm]	Margin [dB]
1569.0	H	203	135	-71.52	-0.99	34.49	-60.77	-40.00	-20.77
2353.5	-	-	-	-76.17	0.96	31.79	-63.46	-13.00	-50.46
3138.0	-	-	-	-77.21	2.90	32.69	-62.57	-13.00	-49.57
3922.5	-	-	-	-77.70	3.88	33.18	-62.08	-13.00	-49.08

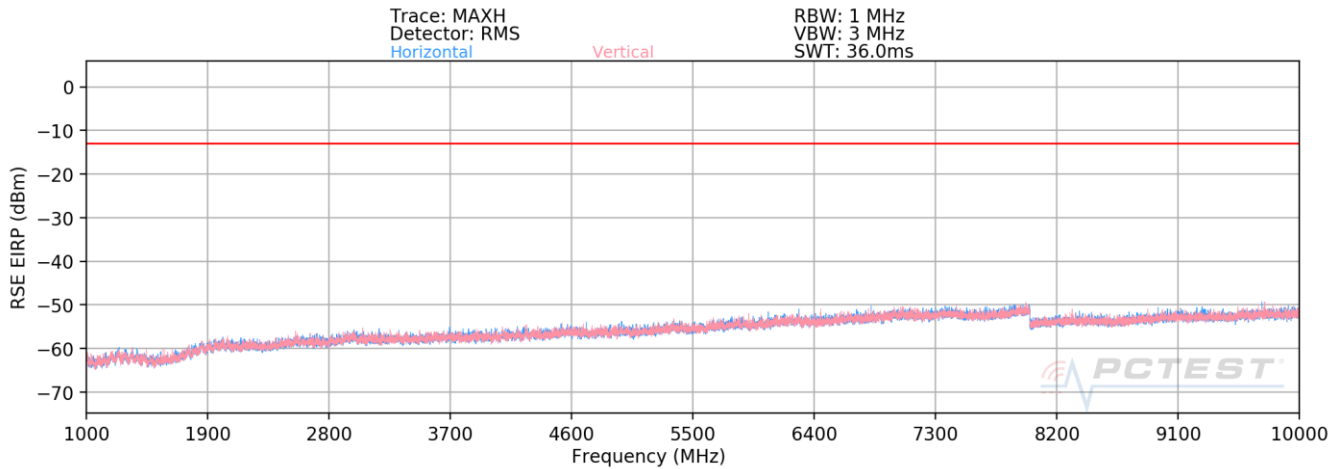
Table 7-38. Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 71



Plot 7-371. Radiated Spurious Emission below 1GHz (LTE Band 71)



Plot 7-372. Radiated Spurious Emission above 1GHz (LTE Band 71)

FCC ID: BCGA2301	PCTEST Proud to be part of element		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / 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]	Limit [dBm]	Margin [dB]
1346.0	H	276	327	-73.26	-4.05	29.69	-65.57	-13.00	-52.57
2019.0	V	290	123	-71.76	-0.62	34.62	-60.64	-13.00	-47.64
2692.0	V	-	-	-76.47	0.60	31.13	-64.12	-13.00	-51.12
3365.0	V	-	-	-76.85	1.97	32.12	-63.14	-13.00	-50.14
4038.0	V	-	-	-77.18	2.78	32.60	-62.65	-13.00	-49.65

Table 7-39. Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / 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]	Limit [dBm]	Margin [dB]
1361.0	H	259	312	-74.55	-4.13	28.32	-66.94	-13.00	-53.94
2041.5	V	324	133	-72.42	-0.61	33.97	-61.28	-13.00	-48.28
2722.0	V	-	-	-76.27	0.26	30.99	-64.27	-13.00	-51.27
3402.5	V	-	-	-84.41	1.81	24.40	-70.86	-13.00	-57.86
4083.0	V	-	-	-77.15	2.86	32.71	-62.54	-13.00	-49.54

Table 7-40. Radiated Spurious Data (LTE Band 71 – Mid Channel)

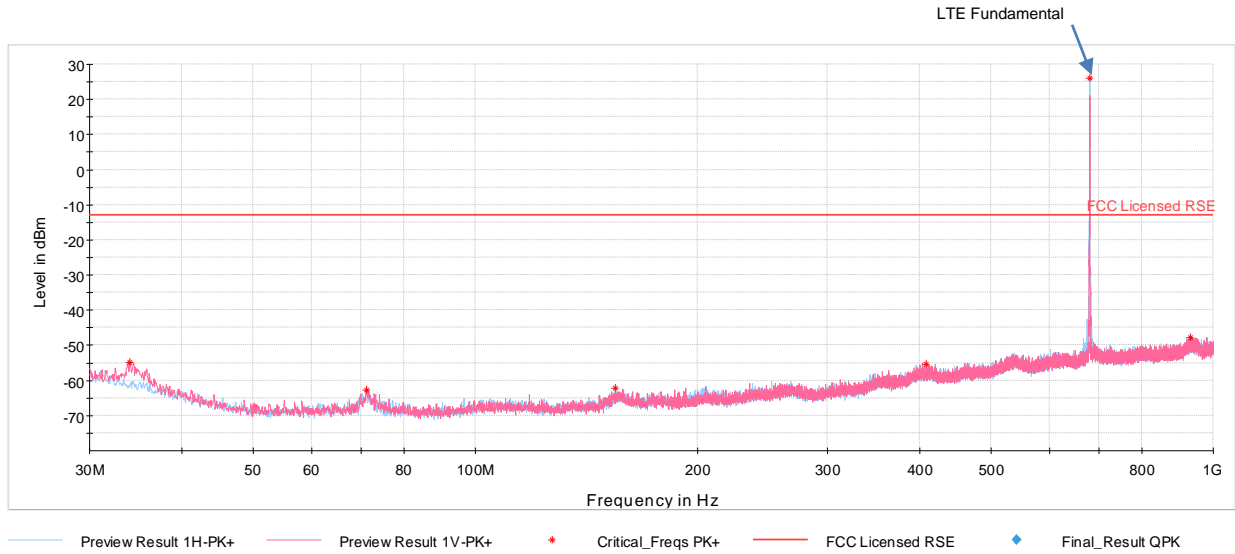
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

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]	Limit [dBm]	Margin [dB]
1376.0	V	-	-	-75.39	-4.15	27.46	-67.80	-13.00	-54.80
2064.0	V	-	-	-75.67	-0.78	30.55	-64.71	-13.00	-51.71
2752.0	V	-	-	-75.98	0.18	31.20	-64.06	-13.00	-51.06

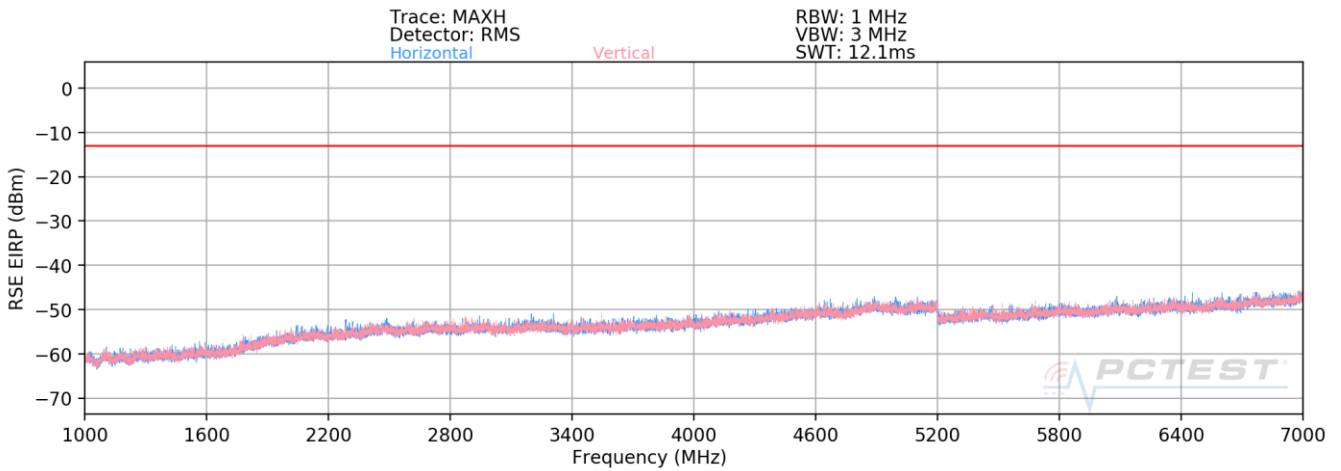
Table 7-41. Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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NR Band n71



Plot 7-373. Radiated Spurious Emission below 1GHz (NR Band n71)



Plot 7-374. Radiated Spurious Emission above 1GHz (NR Band n71)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / 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]	Limit [dBm]	Margin [dB]
1346.0	-	-	-	-76.05	-4.05	26.90	-68.36	-13.00	-55.36
2019.0	-	-	-	-76.63	-0.62	29.75	-65.51	-13.00	-52.51
2692.0	-	-	-	-76.54	0.60	31.06	-64.19	-13.00	-51.19
3365.0	-	-	-	-78.11	1.97	30.86	-64.40	-13.00	-51.40

Table 7-42. Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / 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]	Limit [dBm]	Margin [dB]
1361.0	-	-	-	-75.24	-4.13	27.63	-67.63	-13.00	-54.63
2041.5	V	232	341	-76.68	-0.61	29.71	-65.54	-13.00	-52.54
2722.0	-	-	-	-77.04	0.26	30.22	-65.04	-13.00	-52.04
3402.5	-	-	-	-77.54	1.81	31.27	-63.99	-13.00	-50.99

Table 7-43. Radiated Spurious Data (NR Band n71 – Mid Channel)

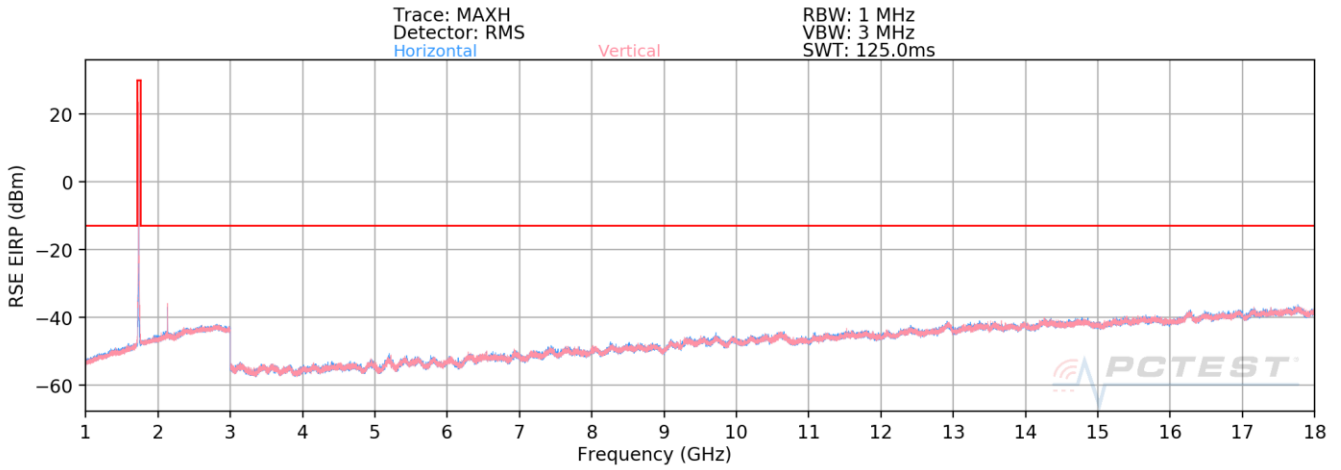
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

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]	Limit [dBm]	Margin [dB]
1376.0	-	-	-	-75.76	-4.15	27.09	-68.17	-13.00	-55.17
2064.0	V	175	297	-75.69	-0.78	30.53	-64.73	-13.00	-51.73
2752.0	-	-	-	-76.82	0.18	30.36	-64.90	-13.00	-51.90
3440.0	-	-	-	-77.48	1.74	31.26	-64.00	-13.00	-51.00


Table 7-44. Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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WCDMA AWS



Plot 7-375. Radiated Spurious Emission 1GHz – 18GHz (WCDMA AWS)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

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]	Limit [dBm]	Margin [dB]
3424.8	V	-	-	-77.51	5.31	34.80	-60.46	-13.00	-47.46
5137.2	V	-	-	-78.94	6.92	34.98	-60.28	-13.00	-47.28
6849.6	V	-	-	-79.82	9.73	36.91	-58.35	-13.00	-45.35

7-45. Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


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]	Limit [dBm]	Margin [dB]
3465.2	V	-	-	-77.32	4.45	34.13	-61.13	-13.00	-48.13
5197.8	V	-	-	-78.29	6.25	34.96	-60.30	-13.00	-47.30
6930.4	V	-	-	-80.96	9.45	35.49	-59.77	-13.00	-46.77

Table 7-46. Radiated Spurious Data (WCDMA AWS – Mid Channel)

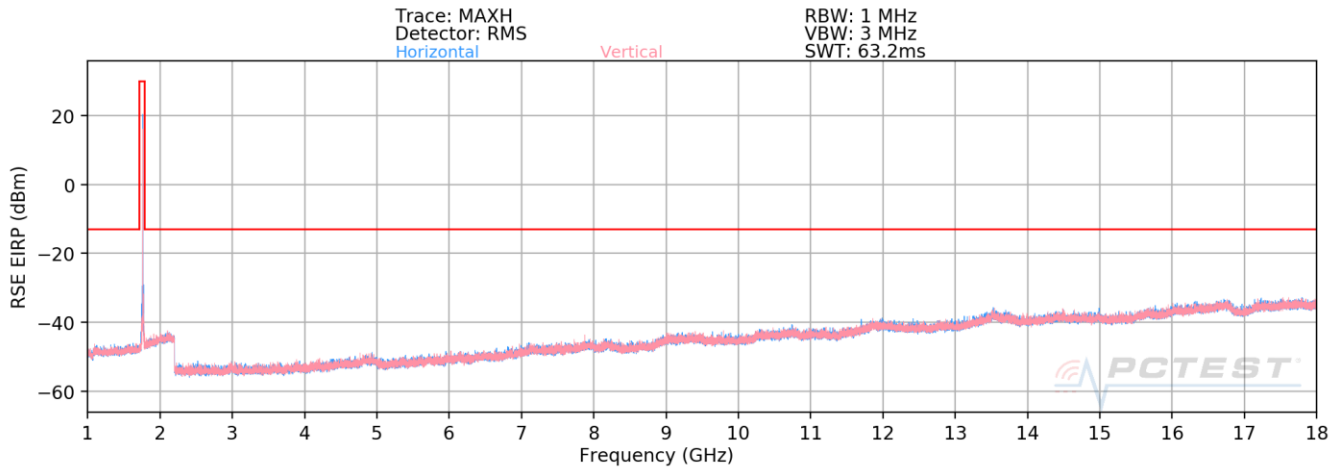
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-77.42	4.44	34.02	-61.24	-13.00	-48.24
5257.8	V	-	-	-78.42	6.89	35.47	-59.79	-13.00	-46.79
7010.4	V	-	-	-80.58	10.55	36.97	-58.28	-13.00	-45.28

Table 7-47. Radiated Spurious Data (WCDMA AWS – High Channel)

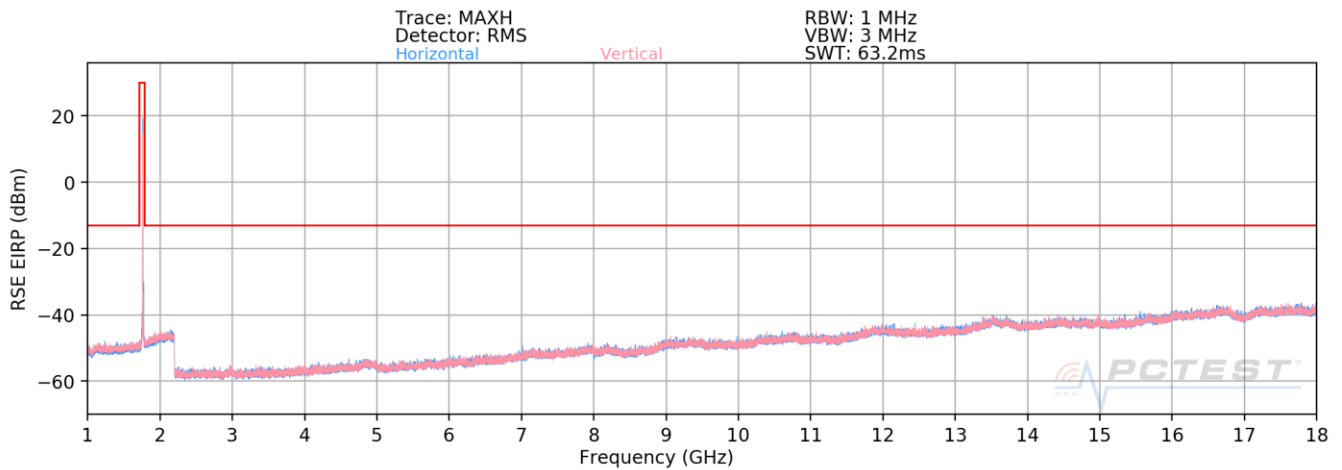
FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 245 of 270

EN-DC – n12 + LTE Band 66



Plot 7-376. Radiated Spurious Emission 1GHz – 18GHz (NR Band n12 + Anchor LTE Band 66 – EN-DC)

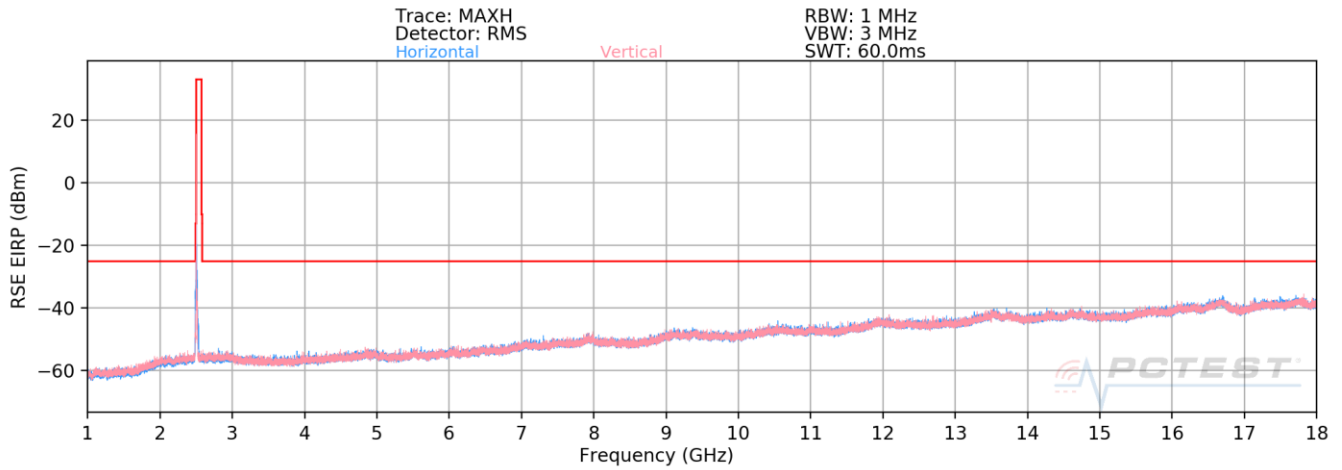
EN-DC – n71 + LTE Band 66



Plot 7-377. Radiated Spurious Emission 1GHz – 18GHz (NR Band n71 + Anchor LTE Band 66 – EN-DC)

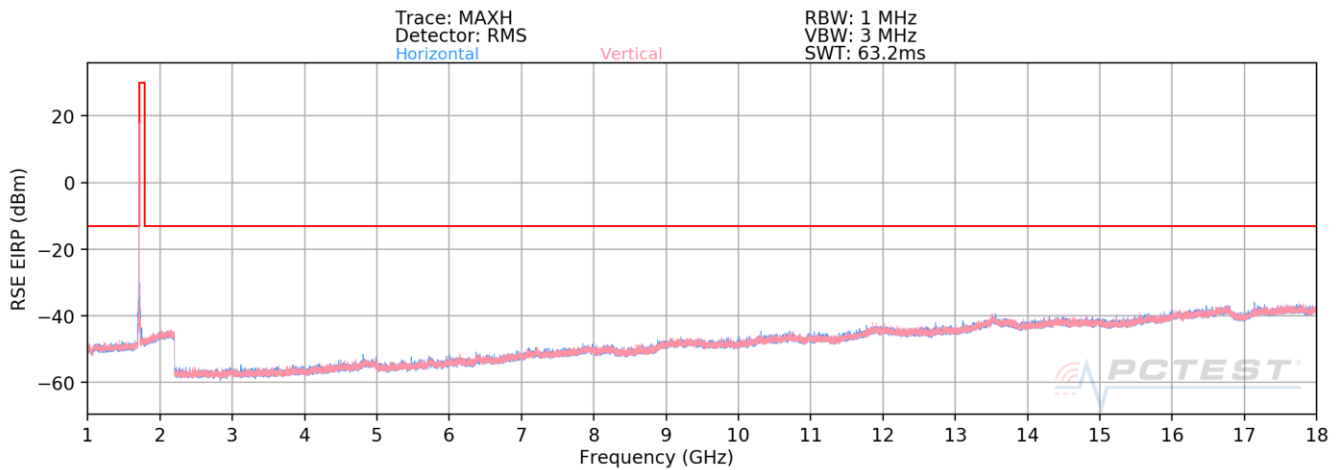
FCC ID: BCGA2301	PCTEST Proud to be part of element		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 246 of 270

EN-DC – n71 + LTE Band 7




Plot 7-378. Radiated Spurious Emission 1GHz – 18GHz (NR Band n71 + Anchor LTE Band 7 – EN-DC)

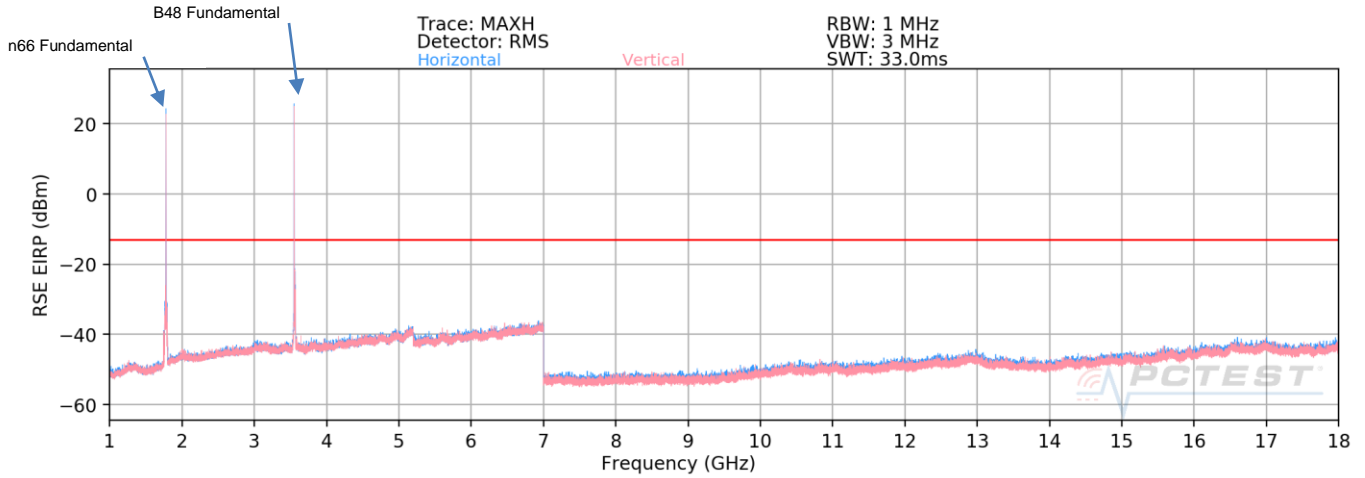
EN-DC – n66 + LTE Band 12




Plot 7-379. Radiated Spurious Emission 1GHz – 18GHz (NR Band n66 + Anchor LTE Band 12 – EN-DC)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 247 of 270

EN-DC – n66 + LTE Band 48



Plot 7-380. Radiated Spurious Emission 1GHz – 18GHz (NR Band n66 + Anchor LTE Band 48 – EN-DC)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 248 of 270

7.7.2 Antenna 1 – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / 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]	Limit [dBm]	Margin [dB]
3440.0	H	-	-	-79.68	4.56	31.88	-63.37	-13.00	-50.37
5160.0	H	-	-	-80.85	6.61	32.76	-62.49	-13.00	-49.49
6880.0	H	-	-	-82.13	9.48	34.35	-60.90	-13.00	-47.90

Table 7-48. Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / 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]	Limit [dBm]	Margin [dB]
3490.0	H	-	-	-79.68	4.24	31.56	-63.70	-13.00	-50.70
5235.0	H	-	-	-80.72	6.98	33.26	-62.00	-13.00	-49.00
6980.0	H	-	-	-82.16	9.65	34.49	-60.77	-13.00	-47.77

Table 7-49. Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / 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]	Limit [dBm]	Margin [dB]
3540.00	H	-	-	-79.77	4.51	31.74	-63.52	-13.00	-50.52
5310.00	H	-	-	-81.18	8.18	34.00	-61.26	-13.00	-48.26
7080.00	H	-	-	-82.43	10.11	34.68	-60.58	-13.00	-47.58

Table 7-50. Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 12/17

Bandwidth (MHz):	10
Frequency (MHz):	704.0
RB / Offset:	1 / 25

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]	Limit [dBm]	Margin [dB]
1408.0	V	248	219	-75.86	-1.99	29.15	-66.11	-13.00	-53.11
2112.0	H	179	130	-75.36	1.73	33.37	-61.89	-13.00	-48.89
2816.0	V	-	-	-77.85	3.39	32.54	-62.72	-13.00	-49.72
3520.0	V	-	-	-78.41	4.33	32.92	-62.34	-13.00	-49.34
4224.0	V	-	-	-79.38	5.62	33.24	-62.02	-13.00	-49.02

Table 7-51. Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25


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]	Limit [dBm]	Margin [dB]
1415.0	V	224	222	-76.17	-1.95	28.88	-66.38	-13.00	-53.38
2122.5	V	236	142	-76.47	2.04	32.57	-62.68	-13.00	-49.68
2830.0	V	-	-	-77.64	3.31	32.67	-62.58	-13.00	-49.58
3537.5	V	-	-	-78.45	4.44	32.99	-62.26	-13.00	-49.26
4245.0	V	-	-	-79.35	5.41	33.06	-62.19	-13.00	-49.19

Table 7-52. Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

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]	Limit [dBm]	Margin [dB]
1422.0	V	367	143	-76.13	-1.97	28.90	-66.36	-13.00	-53.36
2133.0	H	256	123	-75.51	2.16	33.65	-61.61	-13.00	-48.61
2844.0	V	-	-	-77.73	3.64	32.91	-62.34	-13.00	-49.34
3555.0	V	-	-	-78.37	4.29	32.92	-62.34	-13.00	-49.34
4266.0	V	-	-	-79.26	5.19	32.93	-62.32	-13.00	-49.32

Table 7-53. Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 250 of 270

LTE Band 13

Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 25

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]	Limit [dBm]	Margin [dB]
1559.0	V	334	226	-75.62	2.58	33.96	-61.30	-40.00	-21.30
2338.5	H	101	180	-74.00	3.92	36.92	-58.34	-13.00	-45.34
3118.0	-	-	-	-77.89	4.95	34.06	-61.20	-13.00	-48.20
3897.5	-	-	-	-79.40	6.09	33.69	-61.57	-13.00	-48.57
4677.0	-	-	-	-79.14	7.52	35.38	-59.88	-13.00	-46.88

Table 7-54. Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	782.0
RB / Offset:	1 / 25


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]	Limit [dBm]	Margin [dB]
1564.0	H	277	213	-76.22	2.64	33.42	-61.83	-40.00	-21.83
2346.0	-	-	-	-77.46	3.93	33.47	-61.78	-13.00	-48.78
3128.0	-	-	-	-77.84	4.98	34.14	-61.12	-13.00	-48.12
3910.0	-	-	-	-79.45	6.11	33.66	-61.60	-13.00	-48.60

Table 7-55. Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 25

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]	Limit [dBm]	Margin [dB]
1569.0	-	-	-	-77.26	2.82	32.56	-62.70	-40.00	-22.70
2353.5	-	-	-	-77.36	3.94	33.58	-61.68	-13.00	-48.68
3138.0	-	-	-	-78.05	5.10	34.05	-61.21	-13.00	-48.21

Table 7-56. Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 251 of 270

LTE Band 71

Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / 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]	Limit [dBm]	Margin [dB]
1346.0	-	-	-	-76.68	-2.35	27.97	-67.29	-13.00	-54.29
2019.0	V	216	178	-75.12	1.88	33.76	-61.50	-13.00	-48.50
2692.0	-	-	-	-77.76	3.81	33.05	-62.20	-13.00	-49.20
3365.0	-	-	-	-78.04	4.24	33.20	-62.06	-13.00	-49.06
4038.0	-	-	-	-79.35	5.08	32.73	-62.52	-13.00	-49.52

Table 7-57. Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / 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]	Limit [dBm]	Margin [dB]
1361.0	V	366	224	-75.77	-2.24	28.99	-66.27	-13.00	-53.27
2041.5	V	260	164	-77.21	1.73	31.52	-63.74	-13.00	-50.74
2722.0	-	-	-	-78.12	3.63	32.51	-62.75	-13.00	-49.75
3402.5	-	-	-	-78.42	4.43	33.01	-62.25	-13.00	-49.25
4083.0	-	-	-	-79.30	4.84	32.54	-62.71	-13.00	-49.71

Table 7-58. Radiated Spurious Data (LTE Band 71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / 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]	Limit [dBm]	Margin [dB]
1376.0	V	391	39	-75.22	-2.08	29.70	-65.56	-13.00	-52.56
2064.0	H	114	45	-76.97	1.80	31.83	-63.43	-13.00	-50.43
2752.0	-	-	-	-78.10	3.47	32.37	-62.88	-13.00	-49.88
3440.0	-	-	-	-78.47	4.27	32.80	-62.46	-13.00	-49.46
4128.0	-	-	-	-79.04	4.89	32.85	-62.41	-13.00	-49.41

Table 7-59. Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 252 of 270

NR Band n71

Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	-	-	-	-76.68	-4.05	26.27	-68.99	-13.00	-55.99
2019.0	V	216	178	-75.12	-0.62	31.26	-64.00	-13.00	-51.00
2692.0	-	-	-	-77.76	0.60	29.84	-65.41	-13.00	-52.41
3365.0	-	-	-	-78.04	1.97	30.93	-64.33	-13.00	-51.33
4038.0	-	-	-	-79.35	2.78	30.43	-64.82	-13.00	-51.82

Table 7-60. Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	V	366	224	-75.77	-4.13	27.10	-68.16	-13.00	-55.16
2041.5	V	260	164	-77.21	-0.61	29.18	-66.07	-13.00	-53.07
2722.0	-	-	-	-78.12	0.26	29.14	-66.12	-13.00	-53.12
3402.5	-	-	-	-78.42	1.81	30.39	-64.87	-13.00	-51.87
4083.0	-	-	-	-79.30	2.86	30.56	-64.69	-13.00	-51.69

Table 7-61. Radiated Spurious Data (NR Band n71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	V	391	39	-75.22	-4.15	27.63	-67.63	-13.00	-54.63
2064.0	H	114	45	-76.97	-0.78	29.25	-66.01	-13.00	-53.01
2752.0	-	-	-	-78.10	0.18	29.08	-66.18	-13.00	-53.18
3440.0	-	-	-	-78.47	1.74	30.27	-64.99	-13.00	-51.99
4128.0	-	-	-	-79.04	2.99	30.95	-64.30	-13.00	-51.30

Table 7-62. Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 253 of 270

WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

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]	Limit [dBm]	Margin [dB]
3424.8	H	-	-	-78.02	5.31	34.29	-60.97	-13.00	-47.97
5137.2	H	-	-	-78.94	6.92	34.98	-60.28	-13.00	-47.28
6849.6	H	-	-	-79.74	9.73	36.99	-58.27	-13.00	-45.27

7-63. Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


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]	Limit [dBm]	Margin [dB]
3465.2	H	-	-	-77.37	4.45	34.08	-61.18	-13.00	-48.18
5197.8	H	-	-	-78.02	6.25	35.23	-60.03	-13.00	-47.03
6930.4	H	-	-	-79.27	9.45	37.18	-58.08	-13.00	-45.08

7-64. Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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]	Limit [dBm]	Margin [dB]
3505.2	H	-	-	-77.48	4.44	33.96	-61.30	-13.00	-48.30
5257.8	H	-	-	-78.57	6.89	35.32	-59.94	-13.00	-46.94
7010.4	H	-	-	-80.56	10.55	36.99	-58.26	-13.00	-45.26

7-65. Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 254 of 270

7.7.3 Antenna 4b – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / 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]	Limit [dBm]	Margin [dB]
3440.0	-	-	-	-80.96	6.83	32.87	-62.39	-13.00	-49.39
5160.0	V	135	187	-77.60	9.74	39.14	-56.12	-13.00	-43.12
6880.0	-	-	-	-84.10	13.09	35.99	-59.27	-13.00	-46.27
8600.0	-	-	-	-85.37	15.75	37.38	-57.88	-13.00	-44.88
10320.0	-	-	-	-85.15	18.68	40.53	-54.73	-13.00	-41.73

Table 7-66. Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / 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]	Limit [dBm]	Margin [dB]
3490.0	H	241	229	-80.45	6.98	33.53	-61.73	-13.00	-48.73
5235.0	V	369	194	-76.32	9.85	40.53	-54.73	-13.00	-41.73
6980.0	-	-	-	-84.26	13.34	36.08	-59.18	-13.00	-46.18
8725.0	-	-	-	-85.42	16.05	37.63	-57.63	-13.00	-44.63
10470.0	-	-	-	-85.69	19.70	41.01	-54.24	-13.00	-41.24

Table 7-67. Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / 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]	Limit [dBm]	Margin [dB]
3540.00	-	-	-	-81.54	7.09	32.55	-62.71	-13.00	-49.71
5310.00	V	131	187	-73.72	9.58	42.86	-52.40	-13.00	-39.40
7080.00	-	-	-	-84.24	14.03	36.79	-58.47	-13.00	-45.47
8850.00	-	-	-	-85.47	16.18	37.71	-57.55	-13.00	-44.55
10620.00	-	-	-	-85.89	19.92	41.03	-54.23	-13.00	-41.23

Table 7-68. Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	V	-	-	-78.02	5.31	34.29	-60.97	-13.00	-47.97
5137.2	V	-	-	-78.91	6.92	35.01	-60.25	-13.00	-47.25
6849.6	V	-	-	-79.85	9.73	36.88	-58.38	-13.00	-45.38

7-69. Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	V	-	-	-77.30	4.45	34.15	-61.11	-13.00	-48.11
5197.8	V	-	-	-78.02	6.25	35.23	-60.03	-13.00	-47.03
6930.4	V	-	-	-79.36	9.45	37.09	-58.17	-13.00	-45.17

7-70. Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-77.33	4.44	34.11	-61.15	-13.00	-48.15
5257.8	V	-	-	-78.61	6.89	35.28	-59.98	-13.00	-46.98
7010.4	V	-	-	-80.61	10.55	36.94	-58.31	-13.00	-45.31

7-71. Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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7.7.4 Antenna 2b – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / 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]	Limit [dBm]	Margin [dB]
3440.0	-	-	-	-80.91	6.83	32.92	-62.34	-13.00	-49.34
5160.0	-	-	-	-83.13	9.74	33.61	-61.65	-13.00	-48.65
6880.0	-	-	-	-84.04	13.09	36.05	-59.21	-13.00	-46.21

Table 7-72. Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / 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]	Limit [dBm]	Margin [dB]
3490.0	-	-	-	-81.32	6.98	32.66	-62.60	-13.00	-49.60
5235.0	-	-	-	-82.97	9.85	33.88	-61.38	-13.00	-48.38
6980.0	-	-	-	-84.28	13.34	36.06	-59.20	-13.00	-46.20

Table 7-73. Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / 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]	Limit [dBm]	Margin [dB]
3540.00	V	330	20	-79.18	7.09	34.91	-60.35	-13.00	-47.35
5310.00	V	339	318	-73.97	9.58	42.61	-52.65	-13.00	-39.65
7080.00	-	-	-	-84.29	14.03	36.74	-58.52	-13.00	-45.52
8850.00	-	-	-	-85.40	16.18	37.78	-57.48	-13.00	-44.48
10620.00	-	-	-	-85.81	19.92	41.11	-54.15	-13.00	-41.15

Table 7-74. Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

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]	Limit [dBm]	Margin [dB]
3424.8	-	-	-	-77.96	5.31	34.35	-60.91	-13.00	-47.91
5137.2	-	-	-	-78.97	6.92	34.95	-60.31	-13.00	-47.31
6849.6	-	-	-	-79.74	9.73	36.99	-58.27	-13.00	-45.27

7-75. Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


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]	Limit [dBm]	Margin [dB]
3465.2	-	-	-	-77.39	4.45	34.06	-61.20	-13.00	-48.20
5197.8	-	-	-	-78.02	6.25	35.23	-60.03	-13.00	-47.03
6930.4	-	-	-	-79.33	9.45	37.12	-58.14	-13.00	-45.14

7-76. Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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]	Limit [dBm]	Margin [dB]
3505.2	-	-	-	-77.41	4.44	34.03	-61.23	-13.00	-48.23
5257.8	-	-	-	-78.47	6.89	35.42	-59.84	-13.00	-46.84
7010.4	-	-	-	-80.59	10.55	36.96	-58.29	-13.00	-45.29

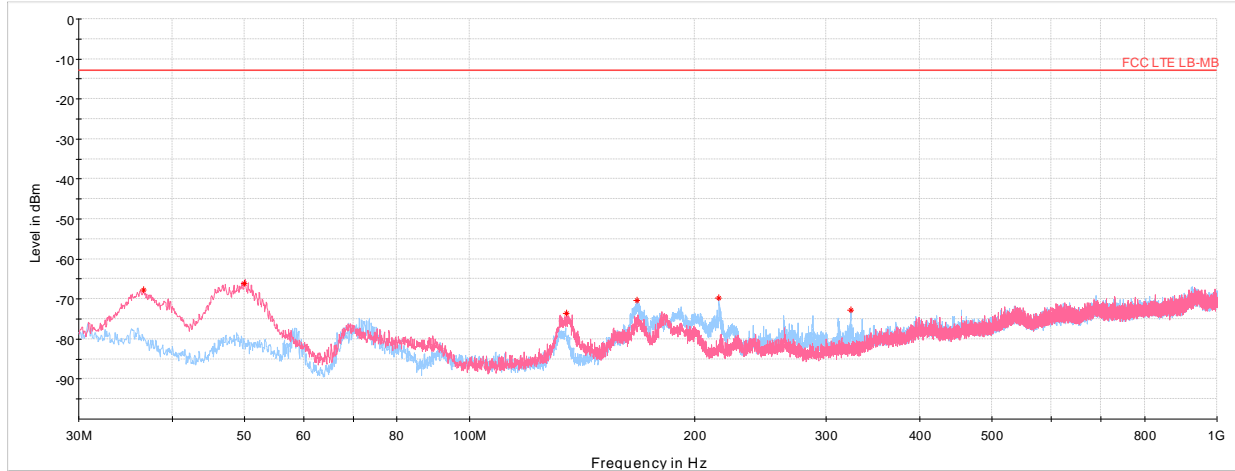
7-77. Radiated Spurious Data (WCDMA AWS – High Channel)

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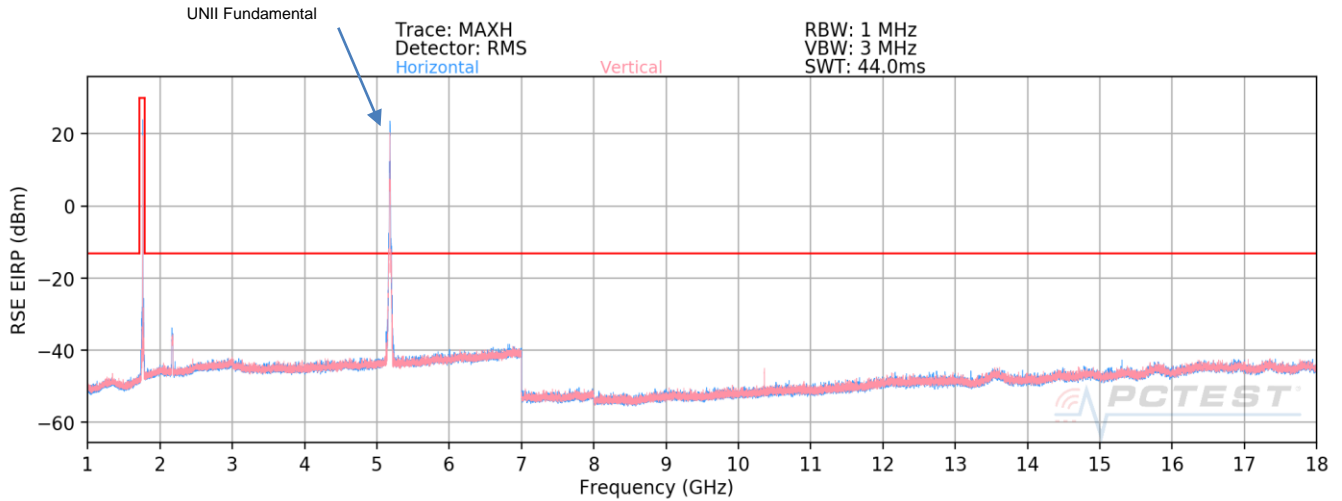
7.7.5 Simultaneous Tx Radiated Spurious Emissions Measurements

Description	LTE (Band 66)	UNII (11ax)
Antenna	Antenna 4b	Antenna 4b
Channel	132572	36
Operating Frequency (MHz)	1770	5180
Mode/Modulation	QPSK/1RB/20MHz	11ax/RU26/Index 0


Table 7-78. Worst Case Simultaneous Transmission Configuration

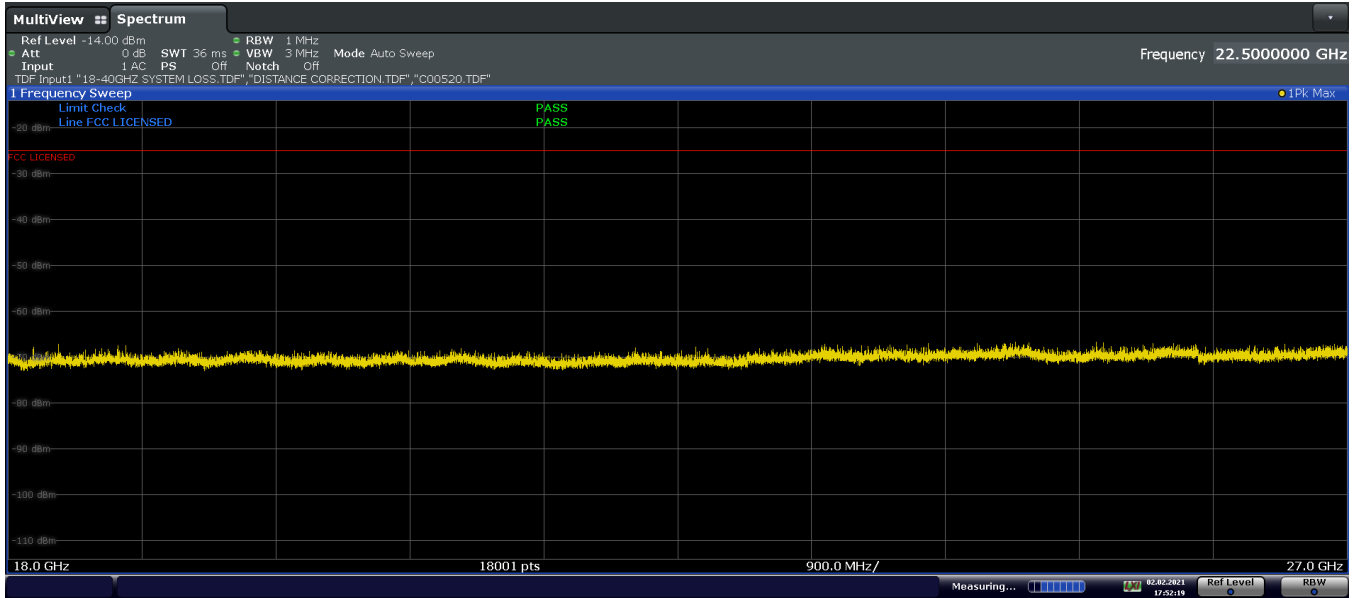


Plot 7-381. Radiated Spurious Emissions – Simultaneous Transmission 30MHz – 1GHz

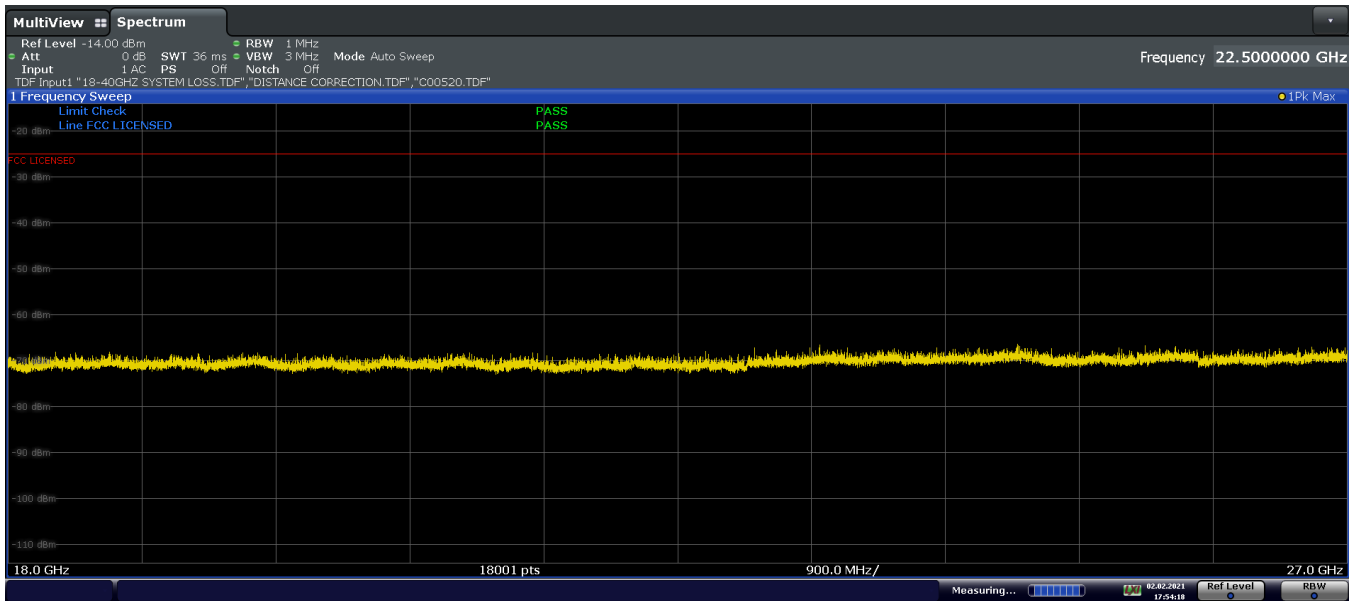


Plot 7-382. Radiated Spurious Emissions - Simultaneous Transmission 1-18GHz


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Plot 7-383. Radiated Spurious Emissions - Simultaneous Transmission 18GHz-40GHz Pol. H



Plot 7-384. Radiated Spurious Emissions - Simultaneous Transmission 18GHz-40GHz Pol. V


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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]
10360.00	Peak	V	238	240	-65.60	14.04	55.44	68.20	-12.76
15540.00	Avg	V	-	-	-85.40	20.21	41.81	53.98	-12.17
15540.00	Peak	V	-	-	-74.05	20.21	53.16	73.98	-20.82
8590.00	Avg	V	-	-	-81.52	9.98	35.46	53.98	-18.52
8590.00	Peak	V	-	-	-70.50	9.98	46.48	73.98	-27.50

Table 7-79. UNII Harmonics Emissions and Intermodulations 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]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-74.69	12.69	45.00	-50.25	-13.00	-37.25
5310.0	V	-	-	-76.12	14.91	45.79	-49.46	-13.00	-36.46
7080.0	V	-	-	-76.46	8.75	39.29	-55.97	-13.00	-42.97
8850.0	V	-	-	-78.20	10.86	39.66	-55.60	-13.00	-42.60
10620.0	V	-	-	-81.44	14.21	39.77	-55.49	-13.00	-42.49
12390.0	V	-	-	-82.56	17.71	42.15	-53.11	-13.00	-40.11

Table 7-80. LTE Harmonics Emissions Measurements in Simultaneous Transmission Mode

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7.8 Frequency Stability / Temperature Variation

\$2.1053, \$27.53

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 27, 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

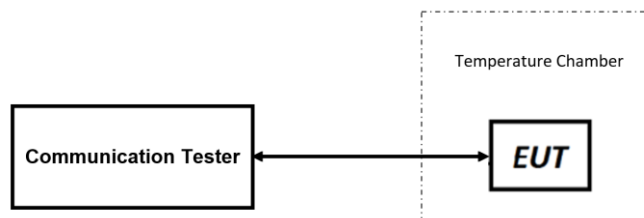



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported
2. NR bands with wider bandwidths compared to respective LTE bands have been investigated and worst case was reported. NR Bands with equal or lower bandwidths to respective LTE bands are covered by their respective LTE Bands.


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Frequency Stability / Temperature Variation

LTE Band 66/4 and NR Band n66/n4							
		Low Channel Frequency (Hz):		1,720,000,000			
		High Channel Frequency (Hz):		1,770,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,719,999,995	1,769,999,995	-3.12	-2.94	-0.0000002
		- 20	1,719,999,995	1,769,999,995	-2.98	-2.25	-0.0000002
		- 10	1,719,999,996	1,769,999,996	-2.43	-1.81	-0.0000001
		0	1,719,999,996	1,769,999,995	-2.27	-2.08	-0.0000001
		+ 10	1,719,999,996	1,769,999,995	-1.77	-2.13	-0.0000001
		+ 20 (Ref)	1,719,999,998	1,769,999,998	0.00	0.00	0.0000000
		+ 30	1,719,999,996	1,769,999,995	-2.27	-2.72	-0.0000001
		+ 40	1,719,999,996	1,769,999,995	-1.76	-2.59	-0.0000001
		+ 50	1,719,999,995	1,769,999,996	-3.25	-1.83	-0.0000002
Battery Endpoint	3.23	+ 20	1,719,999,995	1,769,999,995	-2.58	-2.99	-0.0000002

Table 7-81. LTE Band 66/4 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested


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Frequency Stability / Temperature Variation

LTE Band 12/17							
		Low Channel Frequency (Hz):		704,000,000			
		High Channel Frequency (Hz):		711,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	703,999,999	711,000,000	1.93	2.00	0.0000003
		- 20	703,999,999	710,999,999	1.86	1.00	0.0000003
		- 10	703,999,999	711,000,000	1.75	2.00	0.0000003
		0	703,999,995	711,000,000	-1.37	1.42	0.0000002
		+ 10	703,999,998	710,999,999	0.70	0.56	0.0000001
		+ 20 (Ref)	703,999,997	710,999,998	0.00	0.00	0.0000000
		+ 30	703,999,995	711,000,000	-1.66	1.43	-0.0000002
		+ 40	703,999,994	710,999,995	-2.43	-3.22	-0.0000005
		+ 50	703,999,998	710,999,993	1.52	-5.46	-0.0000008
Battery Endpoint	3.23	+ 20	703,999,995	710,999,998	-2.23	-0.27	-0.0000003

Table 7-82. LTE Band 12/17 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested


FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

LTE Band 13							
		Low Channel Frequency (Hz):		779,500,000			
		High Channel Frequency (Hz):		784,500,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	779,499,999	784,500,000	1.93	0.43	0.0000002
		- 20	779,499,999	784,500,000	1.90	0.88	0.0000002
		- 10	779,499,999	784,500,000	1.75	0.33	0.0000002
		0	779,499,995	784,500,001	-2.05	1.78	0.0000002
		+ 10	779,499,998	784,500,001	0.56	1.35	0.0000002
		+ 20 (Ref)	779,499,998	784,499,999	0.00	0.00	0.0000000
		+ 30	779,499,995	784,499,999	-2.46	-0.26	0.0000000
		+ 40	779,499,996	784,499,998	-1.42	-1.51	-0.0000002
		+ 50	779,499,995	784,499,998	-2.85	-1.22	-0.0000002
Battery Endpoint	3.23	+ 20	779,499,996	784,499,997	-1.77	-2.33	-0.0000002

Table 7-83. LTE Band 13 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested


FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

LTE Band 71							
		Low Channel Frequency (Hz):		673,000,000			
		High Channel Frequency (Hz):		688,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	673,000,003	688,000,000	1.26	0.90	0.0000002
		- 20	673,000,002	687,999,999	1.03	0.30	0.0000001
		- 10	673,000,002	687,999,999	1.14	0.05	0.0000002
		0	673,000,003	688,000,000	1.42	0.73	0.0000002
		+ 10	673,000,002	688,000,000	0.64	0.87	0.0000001
		+ 20 (Ref)	673,000,001	687,999,999	0.00	0.00	0.0000000
		+ 30	673,000,000	687,999,998	-1.30	-0.43	-0.0000002
		+ 40	673,000,001	687,999,999	-0.53	-0.21	-0.0000001
		+ 50	673,000,001	687,999,998	-0.53	-0.42	-0.0000001
Battery Endpoint	3.23	+ 20	673,000,001	687,999,998	-0.50	-1.07	-0.0000002

Table 7-84. LTE Band 71 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested


FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

NR Band n12							
		Low Channel Frequency (Hz):		834,000,000			
		High Channel Frequency (Hz):		839,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	833,306,000	838,283,000	-344,000.00	-352,000.00	-0.0190024
		- 20	833,289,000	838,265,000	-361,000.00	-370,000.00	-0.0199741
		- 10	833,306,000	838,266,000	-344,000.00	-369,000.00	-0.0199201
		0	833,280,000	838,275,000	-370,000.00	-360,000.00	-0.0199741
		+ 10	833,284,000	838,279,000	-366,000.00	-356,000.00	-0.0197582
		+ 20 (Ref)	833,650,000	838,635,000	0.00	0.00	0.0000000
		+ 30	833,289,000	838,295,000	-361,000.00	-340,000.00	-0.0194882
		+ 40	833,295,000	838,272,000	-355,000.00	-363,000.00	-0.0195962
		+ 50	833,305,000	838,280,000	-345,000.00	-355,000.00	-0.0191643
Battery Endpoint	3.23	+ 20	833,298,000	838,270,000	-352,000.00	-365,000.00	-0.0197042

Table 7-85. NR Band n12 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested


FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

NR Band n71							
			Low Channel Frequency (Hz):	673,000,000			
			High Channel Frequency (Hz):	638,800,000			
			Ref. Voltage (VDC):	3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	672,548,630	638,346,855	-451,370.00	-453,145.00	-0.0244626
		- 20	672,547,930	638,347,400	-452,070.00	-452,600.00	-0.0244332
		- 10	672,549,924	638,346,810	-450,076.00	-453,190.00	-0.0244650
		0	672,546,212	638,347,026	-453,788.00	-452,974.00	-0.0244973
		+ 10	672,546,769	638,350,042	-453,231.00	-449,958.00	-0.0244672
		+ 20 (Ref)	673,000,000	638,800,000	0.00	0.00	0.0000000
		+ 30	672,546,712	638,347,999	-453,288.00	-452,001.00	-0.0244703
		+ 40	672,545,238	638,346,259	-454,762.00	-453,741.00	-0.0245499
		+ 50	672,550,075	638,345,008	-449,925.00	-454,992.00	-0.0245623
Battery Endpoint	3.23	+ 20	672,547,155	638,348,977	-452,845.00	-451,023.00	-0.0244464

Table 7-86. NR Band n71 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested


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Frequency Stability / Temperature Variation

WCDMA AWS							
		Low Channel Frequency (Hz):		1,712,400,000			
		High Channel Frequency (Hz):		1,752,600,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,712,400,000	1,752,600,000	0.83	0.30	0.0000000
		- 20	1,712,400,000	1,752,600,001	0.79	1.07	0.0000001
		- 10	1,712,400,000	1,752,600,001	0.29	1.27	0.0000001
		0	1,712,400,000	1,752,600,000	1.05	0.40	0.0000001
		+ 10	1,712,400,000	1,752,600,000	0.14	0.49	0.0000000
		+ 20 (Ref)	1,712,399,999	1,752,600,000	0.00	0.00	0.0000000
		+ 30	1,712,399,998	1,752,599,999	-1.17	-0.39	-0.0000001
		+ 40	1,712,399,999	1,752,599,999	-0.24	-0.86	0.0000000
		+ 50	1,712,399,999	1,752,599,999	-0.54	-0.95	-0.0000001
Battery Endpoint	3.23	+ 20	1,712,399,999	1,752,599,999	-0.74	-0.82	0.0000000


Table 7-87. WCDMA AWS Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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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: BCGA2301** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-04-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 270 of 270