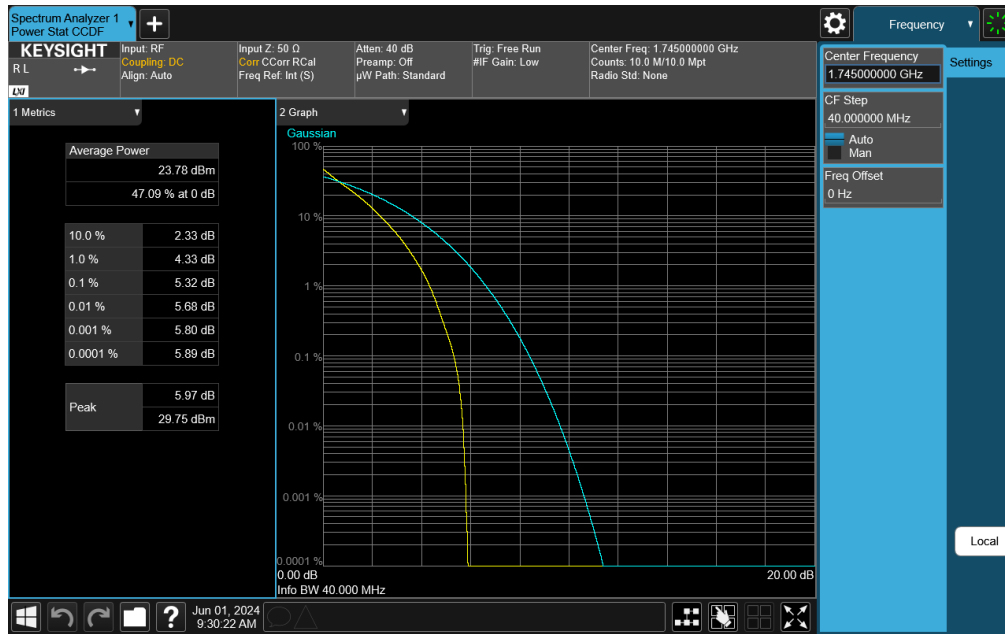
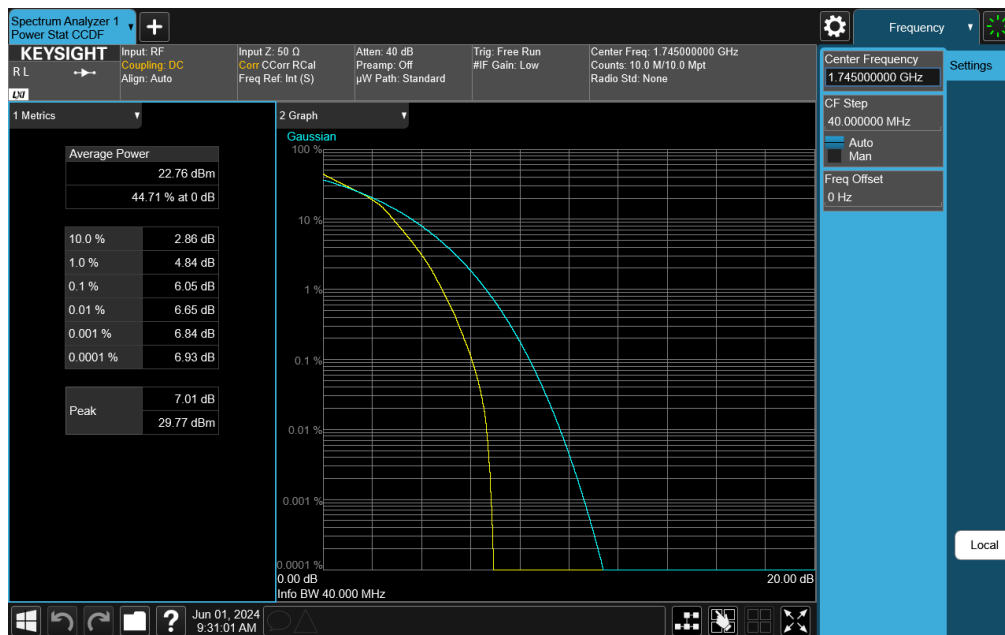




Plot 7-458. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM QPSK - Full RB)

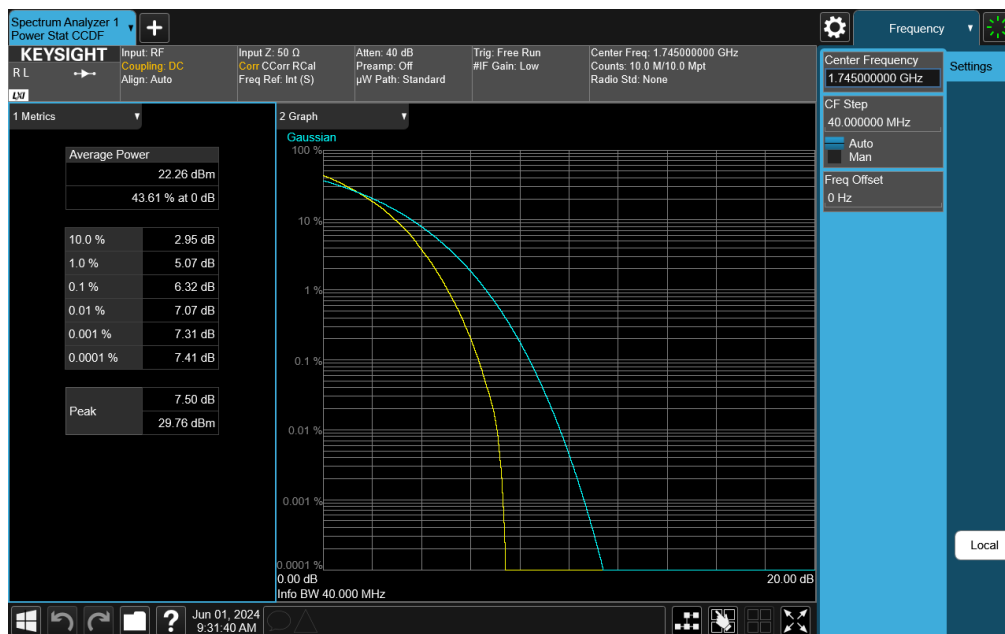


Plot 7-459. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 16-QAM - Full RB)

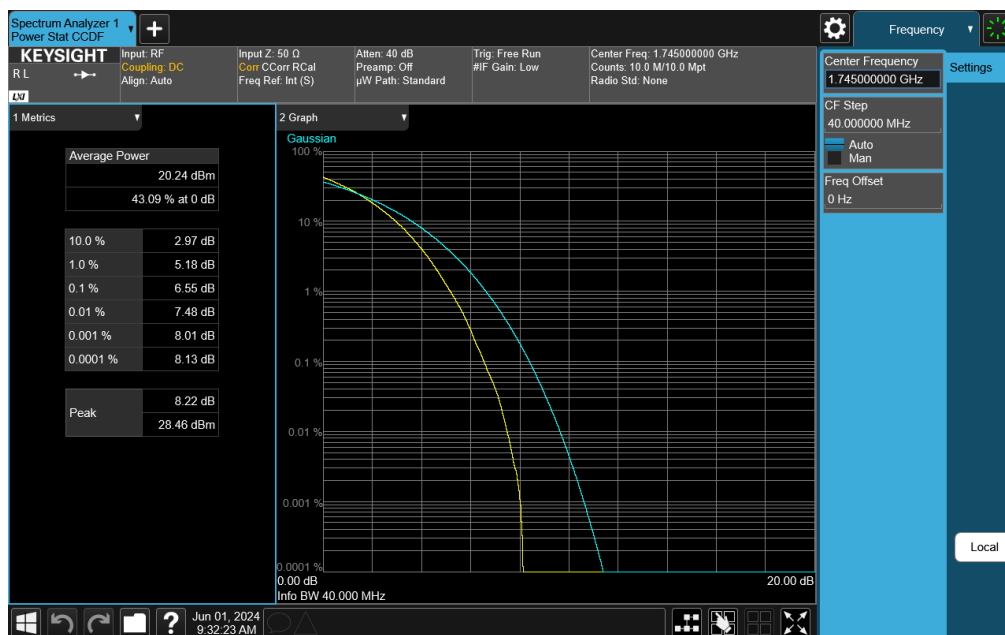
FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 258 of 351

V2.2 09/07/2023

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Plot 7-460. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 64-QAM - Full RB)

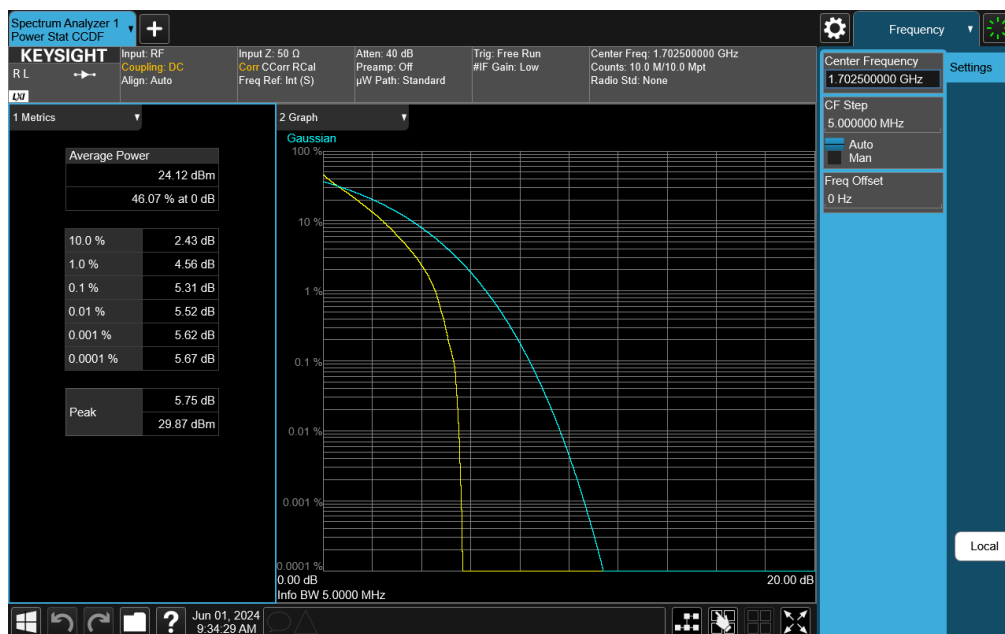
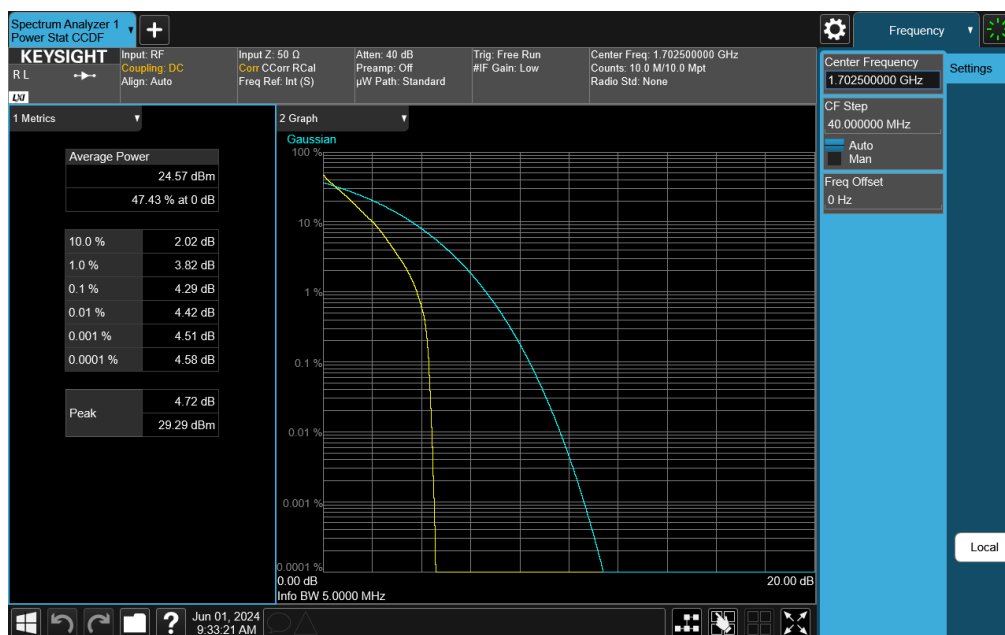


Plot 7-461. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 256-QAM - Full RB)

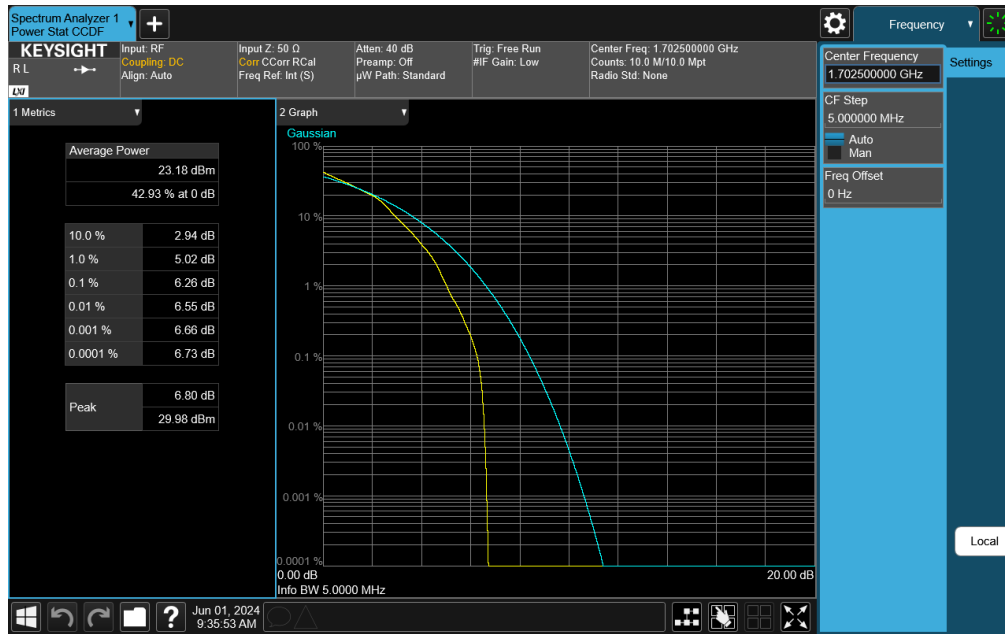
FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 259 of 351

V2.2 09/07/2023

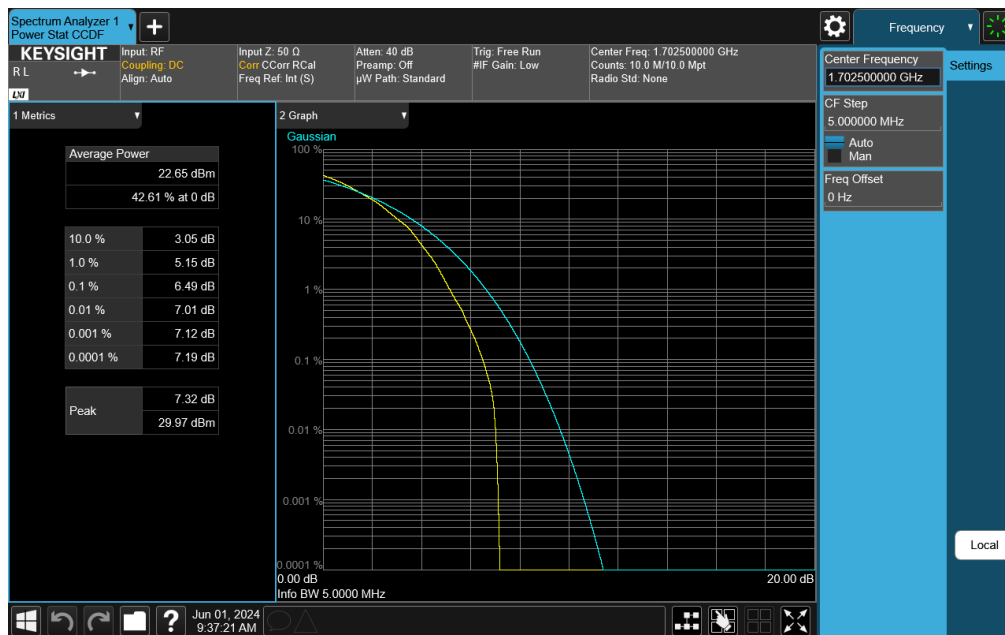
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Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 260 of 351



Plot 7-464. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

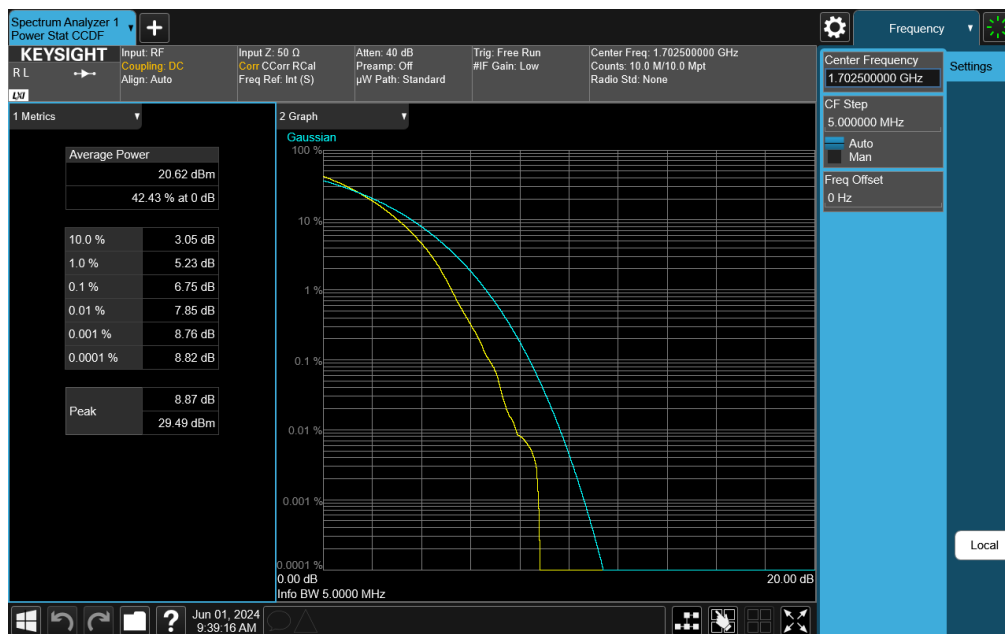


Plot 7-465. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

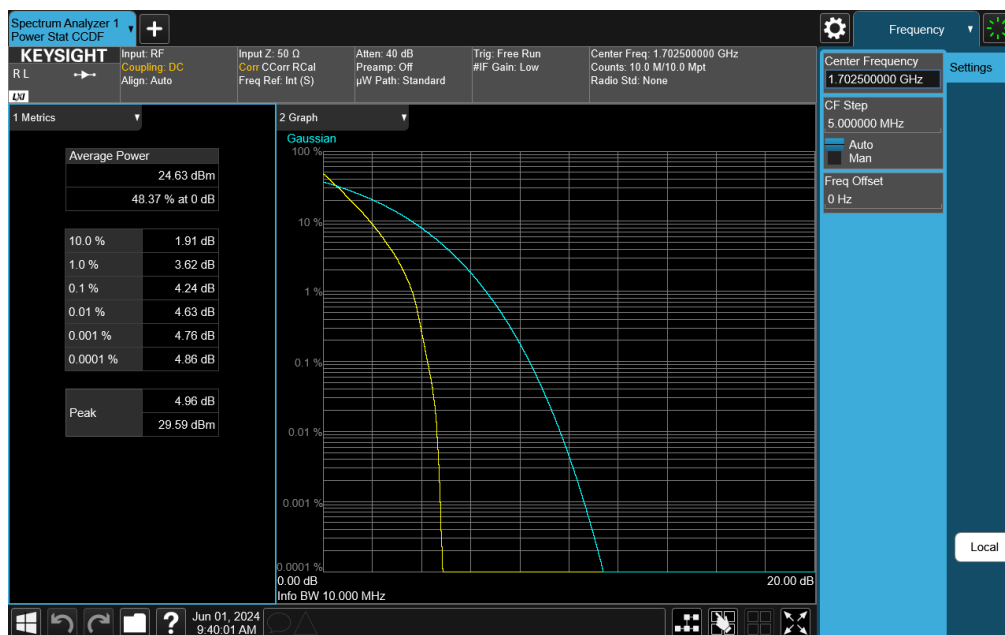
FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 261 of 351

V2.2 09/07/2023

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Plot 7-466. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)

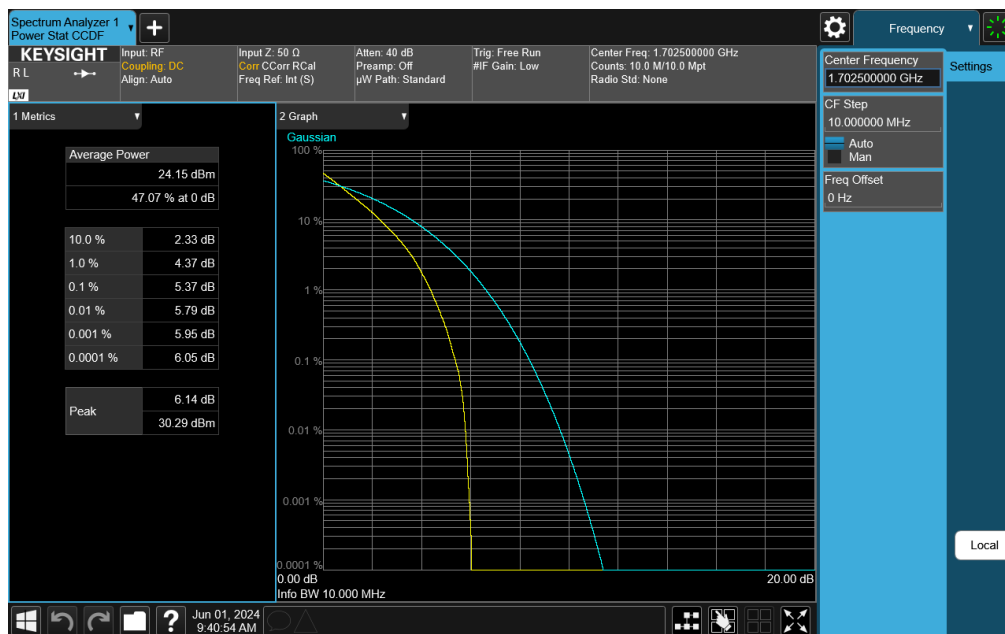


Plot 7-467. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

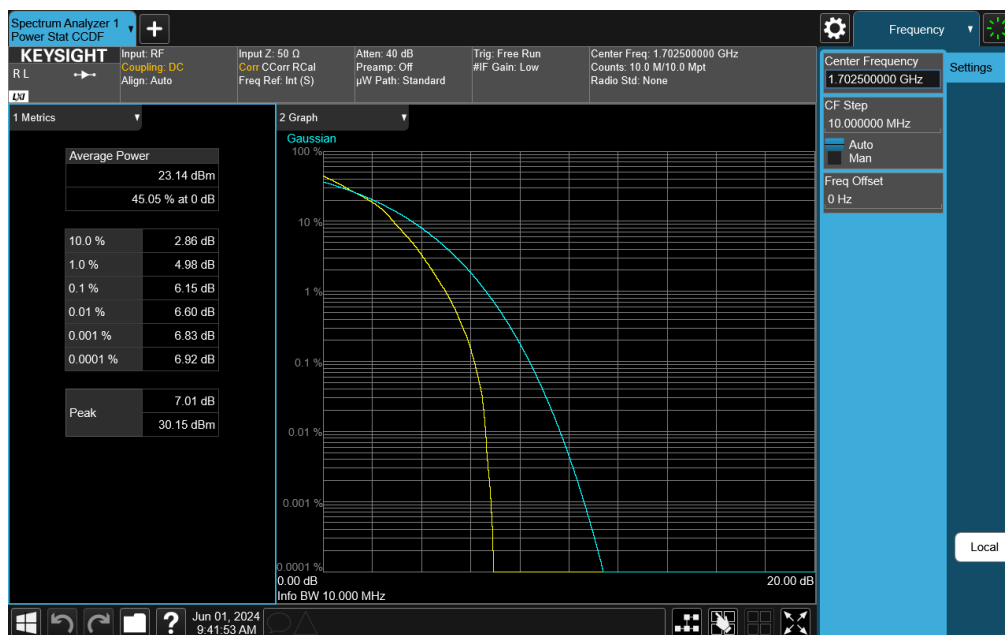
FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 262 of 351

V2.2 09/07/2023

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Plot 7-468. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

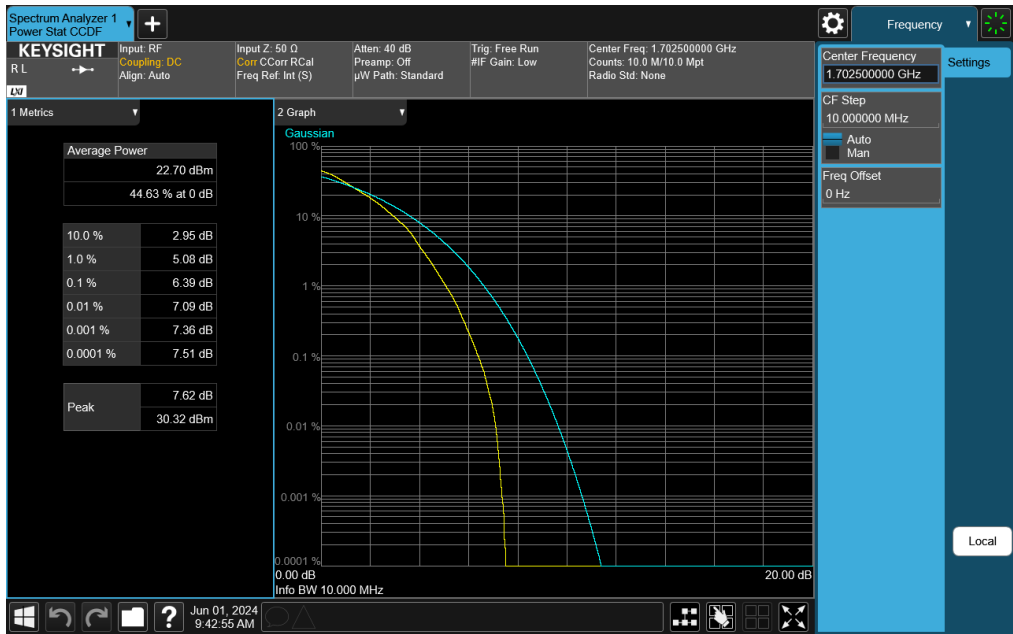


Plot 7-469. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

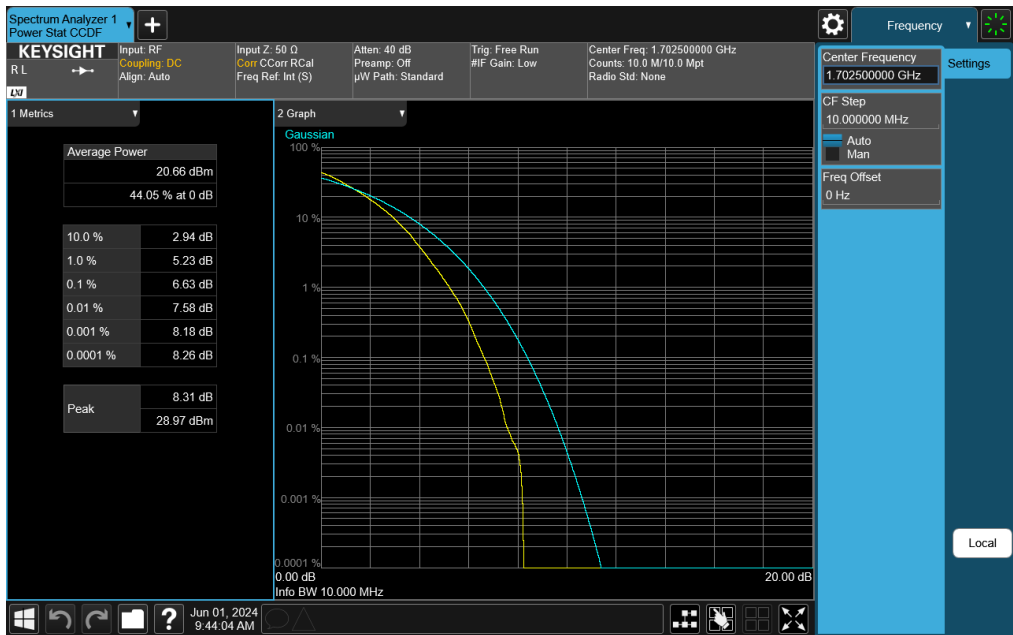
FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 263 of 351

V2.2 09/07/2023

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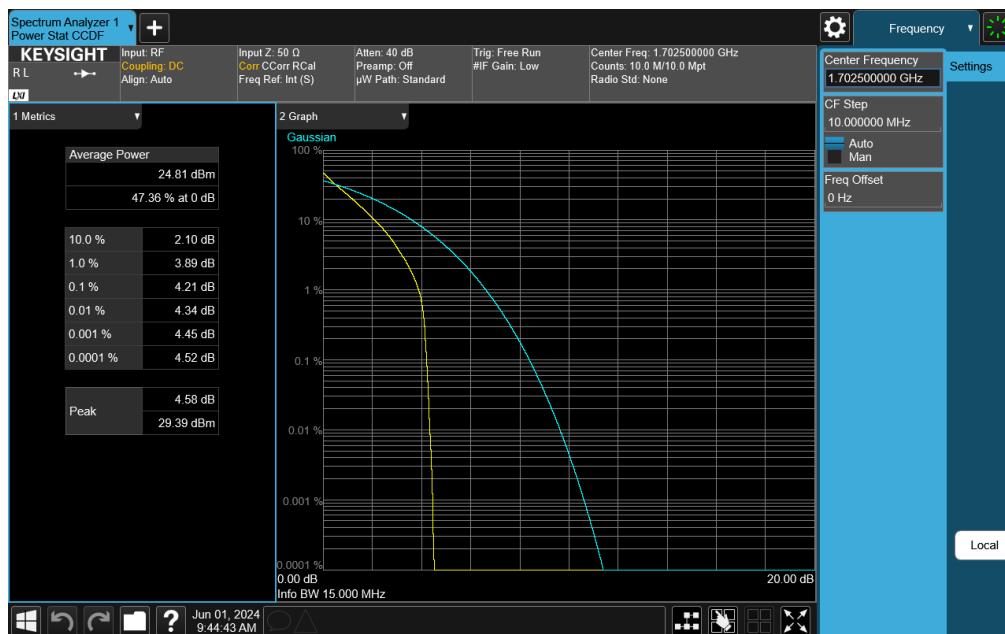


Plot 7-470. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

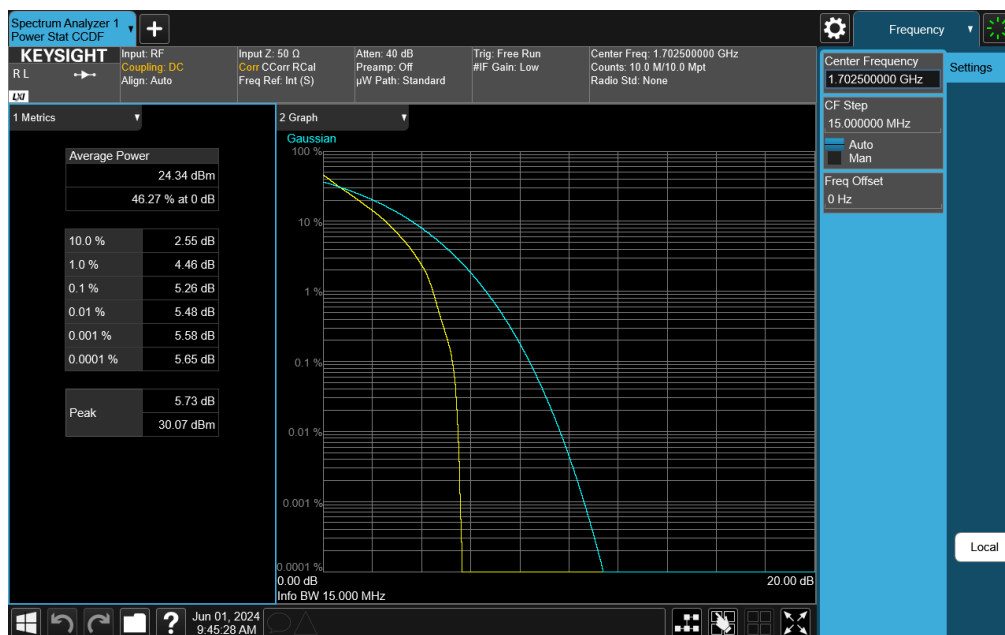


Plot 7-471. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 264 of 351



Plot 7-472. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

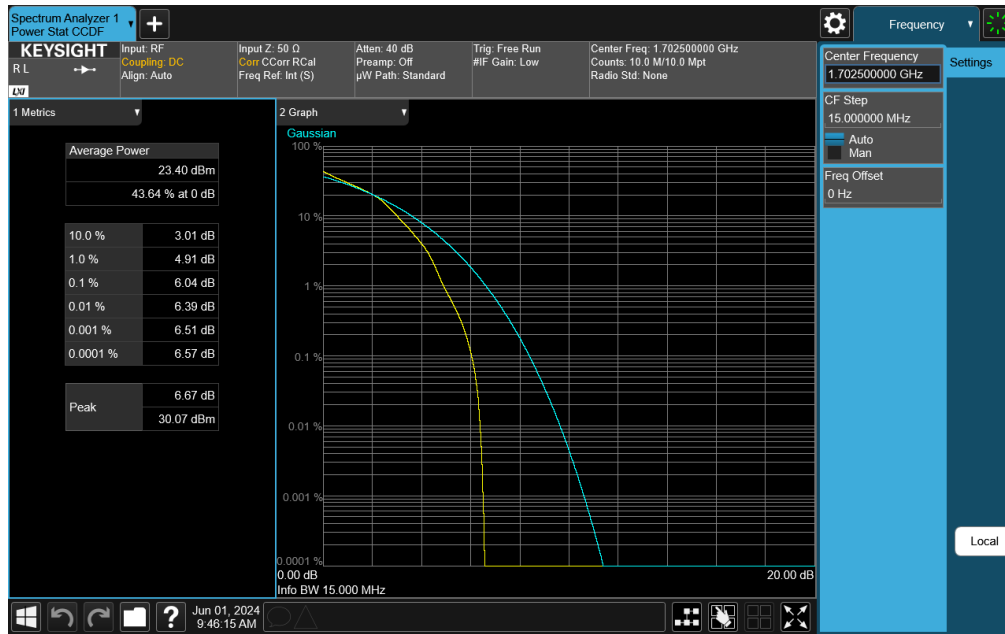


Plot 7-473. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

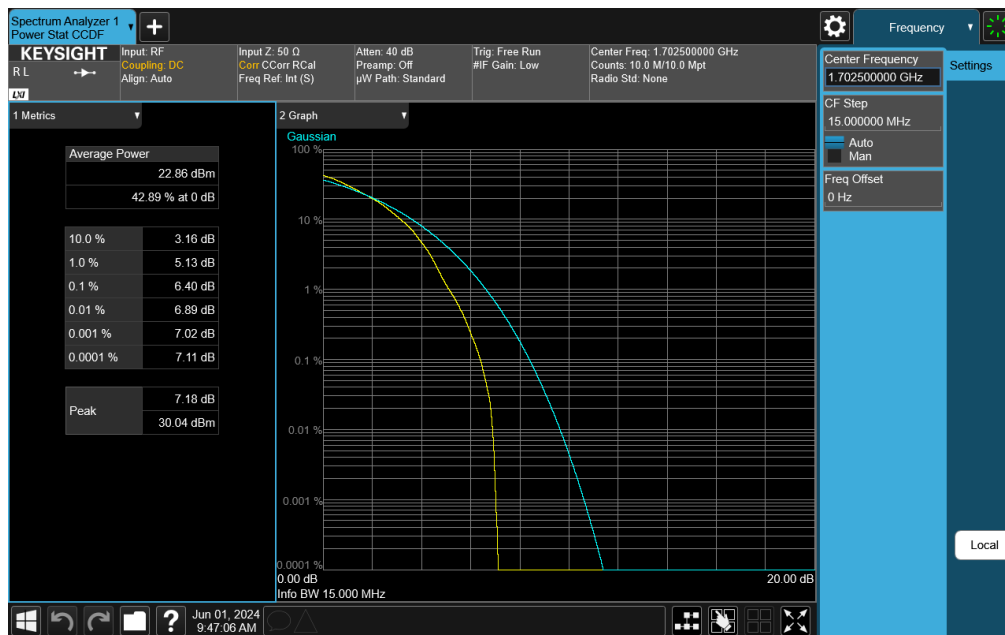
FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 265 of 351

V2.2 09/07/2023

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Plot 7-474. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

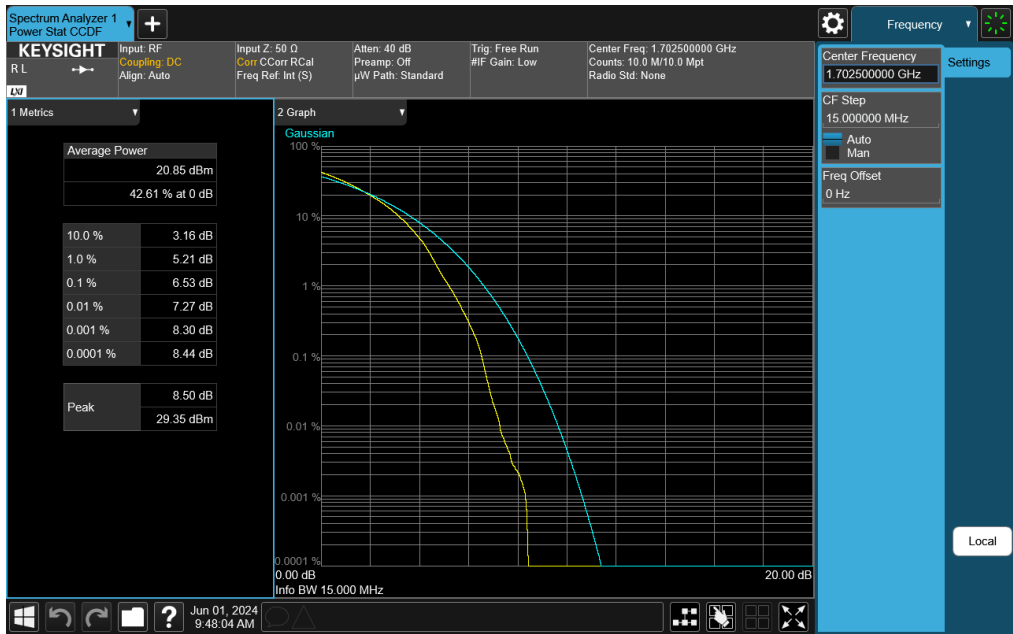


Plot 7-475. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 266 of 351

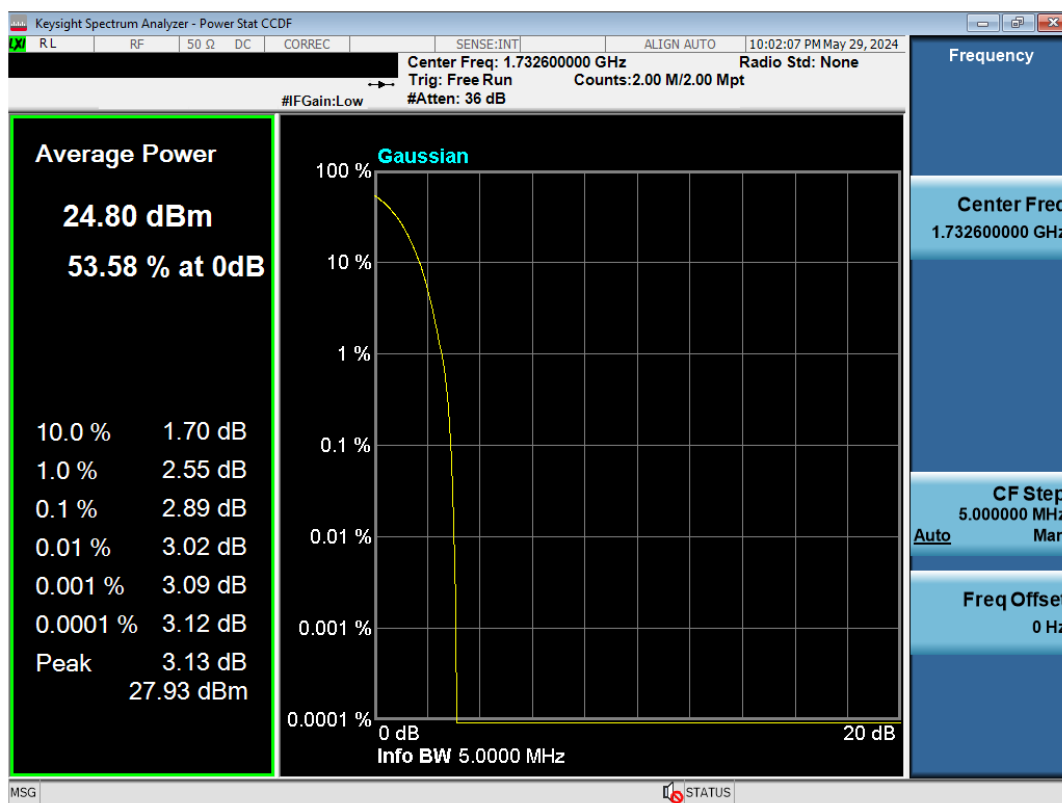
V2.2 09/07/2023

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Plot 7-476. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2995	elementPART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 267 of 351



Plot 7-477. PAR Plot (WCDMA, Ch. 1413)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 268 of 351

V2.2 09/07/2023

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 Isotropic 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.

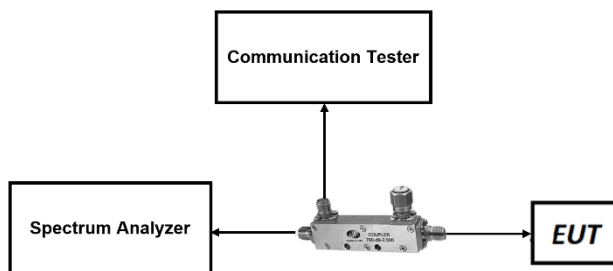


Figure 7-9. LTE EIRP Measurement Setup

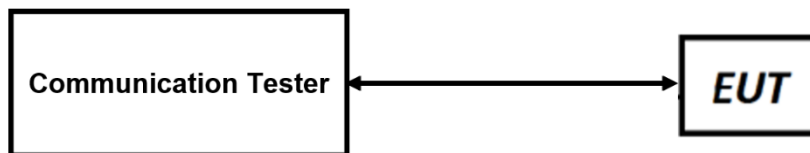


Figure 7-10. FR1 ERP/EIRP Measurement Setup

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device
		Page 269 of 351

V2.2 09/07/2023

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.
6. 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.

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 270 of 351

V2.2 09/07/2023

7.6.1 Antenna 3b – EIRP

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]
1.4 MHz	QPSK	1710.7	1.30	1 / 5	25.12	26.42	0.439	30.00	-3.58
		1745.0	1.30	1 / 5	25.01	26.31	0.428	30.00	-3.69
		1779.3	1.30	1 / 0	24.88	26.18	0.415	30.00	-3.82
	16-QAM	1779.3	1.30	1 / 0	24.31	25.61	0.364	30.00	-4.39
	64-QAM	1710.7	1.30	1 / 0	23.11	24.41	0.276	30.00	-5.59
	256-QAM	1710.7	1.30	1 / 0	20.14	21.44	0.139	30.00	-8.56
3 MHz	QPSK	1711.5	1.30	1 / 0	24.99	26.29	0.426	30.00	-3.71
		1745.0	1.30	1 / 0	24.82	26.12	0.409	30.00	-3.88
		1778.5	1.30	1 / 0	24.96	26.26	0.423	30.00	-3.74
	16-QAM	1778.5	1.30	1 / 0	24.42	25.72	0.373	30.00	-4.28
	64-QAM	1711.5	1.30	1 / 0	23.24	24.54	0.284	30.00	-5.46
	256-QAM	1778.5	1.30	1 / 7	20.18	21.48	0.141	30.00	-8.52
5 MHz	QPSK	1712.5	1.30	1 / 0	25.20	26.50	0.447	30.00	-3.50
		1745.0	1.30	1 / 0	25.19	26.49	0.446	30.00	-3.51
		1777.5	1.30	1 / 0	25.01	26.31	0.428	30.00	-3.69
	16-QAM	1712.5	1.30	1 / 0	24.50	25.80	0.380	30.00	-4.20
	64-QAM	1777.5	1.30	1 / 24	23.22	24.52	0.283	30.00	-5.48
	256-QAM	1712.5	1.30	1 / 0	20.21	21.51	0.142	30.00	-8.49
10 MHz	QPSK	1715.0	1.30	1 / 49	24.97	26.27	0.424	30.00	-3.73
		1745.0	1.30	1 / 25	24.85	26.15	0.412	30.00	-3.85
		1775.0	1.30	1 / 49	25.06	26.36	0.433	30.00	-3.64
	16-QAM	1775.0	1.30	1 / 49	24.46	25.76	0.377	30.00	-4.24
	64-QAM	1775.0	1.30	1 / 0	23.26	24.56	0.286	30.00	-5.44
	256-QAM	1775.0	1.30	1 / 0	20.30	21.60	0.145	30.00	-8.40
15 MHz	QPSK	1717.5	1.30	1 / 74	24.82	26.12	0.409	30.00	-3.88
		1745.0	1.30	1 / 74	24.81	26.11	0.408	30.00	-3.89
		1772.5	1.30	1 / 37	25.02	26.32	0.429	30.00	-3.68
	16-QAM	1772.5	1.30	1 / 37	24.27	25.57	0.361	30.00	-4.43
	64-QAM	1772.5	1.30	1 / 37	23.07	24.37	0.274	30.00	-5.63
	256-QAM	1717.5	1.30	1 / 74	20.04	21.34	0.136	30.00	-8.66
20 MHz	QPSK	1720.0	1.30	1 / 99	24.95	26.25	0.422	30.00	-3.75
		1745.0	1.30	1 / 50	24.89	26.19	0.416	30.00	-3.81
		1770.0	1.30	1 / 50	25.08	26.38	0.435	30.00	-3.62
	16-QAM	1720.0	1.30	1 / 0	24.47	25.77	0.378	30.00	-4.23
	64-QAM	1720.0	1.30	1 / 0	23.22	24.52	0.283	30.00	-5.48
	256-QAM	1720.0	1.30	1 / 0	20.04	21.34	0.136	30.00	-8.66

Table 7-2. Antenna 3b EIRP Data (LTE Band 66)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 271 of 351

V2.2 09/07/2023

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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]
1.4 MHz	QPSK	1710.7	1.30	1 / 5	25.20	26.50	0.447	30.00	-3.50
		1732.5	1.30	1 / 3	25.04	26.34	0.431	30.00	-3.66
		1754.3	1.30	1 / 5	25.02	26.32	0.429	30.00	-3.68
	16-QAM	1710.7	1.30	1 / 0	24.15	25.45	0.351	30.00	-4.55
	64-QAM	1754.3	1.30	1 / 0	23.20	24.50	0.282	30.00	-5.50
	256-QAM	1754.3	1.30	1 / 5	20.27	21.57	0.144	30.00	-8.43
3 MHz	QPSK	1711.5	1.30	1 / 0	25.19	26.49	0.446	30.00	-3.51
		1732.5	1.30	1 / 0	25.02	26.32	0.429	30.00	-3.68
		1753.5	1.30	1 / 7	25.09	26.39	0.436	30.00	-3.61
	16-QAM	1711.5	1.30	1 / 0	24.20	25.50	0.355	30.00	-4.50
	64-QAM	1732.5	1.30	1 / 7	23.15	24.45	0.279	30.00	-5.55
	256-QAM	1711.5	1.30	1 / 0	20.29	21.59	0.144	30.00	-8.41
5 MHz	QPSK	1712.5	1.30	1 / 24	25.20	26.50	0.447	30.00	-3.50
		1732.5	1.30	1 / 12	24.98	26.28	0.425	30.00	-3.72
		1752.5	1.30	1 / 24	24.89	26.19	0.416	30.00	-3.81
	16-QAM	1732.5	1.30	1 / 24	24.14	25.44	0.350	30.00	-4.56
	64-QAM	1752.5	1.30	1 / 12	22.99	24.29	0.269	30.00	-5.71
	256-QAM	1712.5	1.30	1 / 0	20.19	21.49	0.141	30.00	-8.51
10 MHz	QPSK	1715.0	1.30	1 / 49	25.20	26.50	0.447	30.00	-3.50
		1732.5	1.30	1 / 49	25.20	26.50	0.447	30.00	-3.50
		1750.0	1.30	1 / 0	25.03	26.33	0.430	30.00	-3.67
	16-QAM	1732.5	1.30	1 / 25	24.26	25.56	0.360	30.00	-4.44
	64-QAM	1715.0	1.30	1 / 49	23.25	24.55	0.285	30.00	-5.45
	256-QAM	1750.0	1.30	1 / 25	20.36	21.66	0.147	30.00	-8.34
15 MHz	QPSK	1717.5	1.30	1 / 0	24.95	26.25	0.422	30.00	-3.75
		1732.5	1.30	1 / 0	24.89	26.19	0.416	30.00	-3.81
		1747.5	1.30	1 / 74	25.09	26.39	0.436	30.00	-3.61
	16-QAM	1747.5	1.30	1 / 74	24.16	25.46	0.352	30.00	-4.54
	64-QAM	1717.5	1.30	1 / 74	23.18	24.48	0.281	30.00	-5.52
	256-QAM	1732.5	1.30	1 / 0	20.24	21.54	0.143	30.00	-8.46
20 MHz	QPSK	1720.0	1.30	1 / 50	25.20	26.50	0.447	30.00	-3.50
		1732.5	1.30	1 / 0	24.87	26.17	0.414	30.00	-3.83
		1745.0	1.30	1 / 50	25.20	26.50	0.447	30.00	-3.50
	16-QAM	1745.0	1.30	1 / 99	24.17	25.47	0.352	30.00	-4.53
	64-QAM	1745.0	1.30	1 / 0	22.96	24.26	0.267	30.00	-5.74
	256-QAM	1732.5	1.30	1 / 99	20.17	21.47	0.140	30.00	-8.53

Table 7-3. Antenna 3b EIRP Data (LTE Band 4)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 272 of 351

V2.2 09/07/2023

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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]
5 MHz	π/2 BPSK	1712.5	1.30	1 / 12	25.11	26.41	0.438	30.00	-3.59
		1745.0	1.30	1 / 12	25.07	26.37	0.434	30.00	-3.63
		1777.5	1.30	1 / 1	24.92	26.22	0.419	30.00	-3.78
	QPSK	1712.5	1.30	1 / 12	24.93	26.23	0.420	30.00	-3.77
		1745.0	1.30	1 / 23	24.92	26.22	0.419	30.00	-3.78
		1777.5	1.30	1 / 23	25.20	26.50	0.447	30.00	-3.50
	16-QAM	1745.0	1.30	1 / 12	24.11	25.41	0.348	30.00	-4.59
	64-QAM	1712.5	1.30	1 / 23	23.22	24.52	0.283	30.00	-5.48
10 MHz	π/2 BPSK	1712.5	1.30	1 / 1	20.32	21.62	0.145	30.00	-8.38
		1715.0	1.30	1 / 50	25.00	26.30	0.427	30.00	-3.70
		1745.0	1.30	1 / 50	25.05	26.35	0.432	30.00	-3.65
	QPSK	1775.0	1.30	1 / 50	25.16	26.46	0.443	30.00	-3.54
		1715.0	1.30	1 / 25	25.03	26.33	0.430	30.00	-3.67
		1745.0	1.30	1 / 25	25.20	26.50	0.447	30.00	-3.50
	16-QAM	1775.0	1.30	1 / 50	24.98	26.28	0.425	30.00	-3.72
		1745.0	1.30	1 / 25	24.16	25.46	0.352	30.00	-4.54
15 MHz	π/2 BPSK	1745.0	1.30	1 / 1	23.22	24.52	0.283	30.00	-5.48
		1715.0	1.30	1 / 25	20.32	21.62	0.145	30.00	-8.38
		1775.0	1.30	1 / 25	23.22	24.52	0.283	30.00	-5.48
	QPSK	1715.0	1.30	1 / 77	24.94	26.24	0.421	30.00	-3.76
		1745.0	1.30	1 / 36	25.18	26.48	0.445	30.00	-3.52
		1772.5	1.30	1 / 1	25.08	26.38	0.435	30.00	-3.62
	16-QAM	1717.5	1.30	1 / 1	25.12	26.42	0.439	30.00	-3.58
		1745.0	1.30	1 / 77	25.13	26.43	0.440	30.00	-3.57
20 MHz	π/2 BPSK	1772.5	1.30	1 / 36	25.20	26.50	0.447	30.00	-3.50
		1745.0	1.30	1 / 36	24.16	25.46	0.352	30.00	-4.54
		1717.5	1.30	1 / 77	20.22	21.52	0.142	30.00	-8.48
	QPSK	1720.0	1.30	1 / 1	25.20	26.50	0.447	30.00	-3.50
		1745.0	1.30	1 / 104	25.16	26.46	0.443	30.00	-3.54
		1770.0	1.30	1 / 50	25.19	26.49	0.446	30.00	-3.51
	16-QAM	1720.0	1.30	1 / 1	24.88	26.18	0.415	30.00	-3.82
		1745.0	1.30	1 / 104	25.15	26.45	0.442	30.00	-3.55
25 MHz	π/2 BPSK	1770.0	1.30	1 / 1	25.06	26.36	0.433	30.00	-3.64
		1720.0	1.30	1 / 50	24.12	25.42	0.348	30.00	-4.58
		1770.0	1.30	1 / 50	23.19	24.49	0.281	30.00	-5.51
	QPSK	1770.0	1.30	1 / 1	20.30	21.60	0.145	30.00	-8.40
		1722.5	1.30	1 / 1	24.80	26.10	0.407	30.00	-3.90
		1745.0	1.30	1 / 1	24.97	26.27	0.424	30.00	-3.73
	16-QAM	1767.5	1.30	1 / 131	25.10	26.40	0.437	30.00	-3.60
		1722.5	1.30	1 / 131	25.20	26.50	0.447	30.00	-3.50
30 MHz	π/2 BPSK	1745.0	1.30	1 / 64	25.00	26.30	0.427	30.00	-3.70
		1767.5	1.30	1 / 1	25.03	26.33	0.430	30.00	-3.67
		1722.5	1.30	1 / 1	24.20	25.50	0.355	30.00	-4.50
	QPSK	1767.5	1.30	1 / 1	23.12	24.42	0.277	30.00	-5.58
		1745.0	1.30	1 / 1	20.20	21.50	0.141	30.00	-8.50
		1725.0	1.30	1 / 80	24.91	26.21	0.418	30.00	-3.79
	16-QAM	1745.0	1.30	1 / 158	25.14	26.44	0.441	30.00	-3.56
		1765.0	1.30	1 / 158	25.19	26.49	0.446	30.00	-3.51
35 MHz	π/2 BPSK	1725.0	1.30	1 / 80	25.20	26.50	0.447	30.00	-3.50
		1745.0	1.30	1 / 158	25.18	26.48	0.445	30.00	-3.52
		1765.0	1.30	1 / 80	25.09	26.39	0.436	30.00	-3.61
	QPSK	1725.0	1.30	1 / 1	24.09	25.39	0.346	30.00	-4.61
		1745.0	1.30	1 / 1	23.13	24.43	0.277	30.00	-5.57
		1765.0	1.30	1 / 1	20.30	21.60	0.145	30.00	-8.40
	16-QAM	1725.0	1.30	1 / 1	25.11	26.41	0.438	30.00	-3.59
		1745.0	1.30	1 / 186	25.20	26.50	0.447	30.00	-3.50
40 MHz	π/2 BPSK	1762.5	1.30	1 / 1	25.17	26.47	0.444	30.00	-3.53
		1727.5	1.30	1 / 1	25.04	26.34	0.431	30.00	-3.66
		1745.0	1.30	1 / 90	25.08	26.38	0.435	30.00	-3.62
	QPSK	1762.5	1.30	1 / 90	25.02	26.32	0.429	30.00	-3.68
		1727.5	1.30	1 / 90	24.25	25.55	0.359	30.00	-4.45
		1745.0	1.30	1 / 90	23.25	24.55	0.285	30.00	-5.45
	16-QAM	1762.5	1.30	1 / 186	20.17	21.47	0.140	30.00	-8.53
		1725.0	1.30	1 / 1	25.20	26.50	0.447	30.00	-3.50
40 MHz	π/2 BPSK	1745.0	1.30	1 / 1	25.12	26.42	0.439	30.00	-3.58
		1760.0	1.30	1 / 108	25.07	26.37	0.434	30.00	-3.63
		1730.0	1.30	1 / 1	24.96	26.26	0.423	30.00	-3.74
	QPSK	1745.0	1.30	1 / 214	25.14	26.44	0.441	30.00	-3.56
		1760.0	1.30	1 / 108	25.07	26.37	0.434	30.00	-3.63
		1730.0	1.30	1 / 108	24.16	25.46	0.352	30.00	-4.54
	16-QAM	1745.0	1.30	1 / 1	23.25	24.55	0.285	30.00	-5.45
		1730.0	1.30	1 / 214	20.35	21.65	0.146	30.00	-8.35

Table 7-4. Antenna 3b EIRP Data (NR Band n66)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 273 of 351

V2.2 09/07/2023

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NR Band n70

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1697.5	-0.60	1 / 12	25.12	24.52	0.283	30.00	-5.48
		1702.5	-0.60	1 / 12	25.20	24.60	0.288	30.00	-5.40
		1707.5	-0.60	1 / 23	25.20	24.60	0.288	30.00	-5.40
	QPSK	1697.5	-0.60	1 / 23	25.09	24.49	0.281	30.00	-5.51
		1702.5	-0.60	1 / 23	24.94	24.34	0.272	30.00	-5.66
		1707.5	-0.60	1 / 12	25.17	24.57	0.286	30.00	-5.43
	16-QAM	1702.5	-0.60	1 / 23	24.14	23.54	0.226	30.00	-6.46
	64-QAM	1707.5	-0.60	1 / 12	23.19	22.59	0.182	30.00	-7.41
	256-QAM	1702.5	-0.60	1 / 12	20.31	19.71	0.094	30.00	-10.29
10 MHz	$\pi/2$ BPSK	1700.0	-0.60	1 / 25	25.07	24.47	0.280	30.00	-5.53
		1702.5	-0.60	1 / 25	25.05	24.45	0.279	30.00	-5.55
		1705.0	-0.60	1 / 50	25.20	24.60	0.288	30.00	-5.40
	QPSK	1700.0	-0.60	1 / 1	24.97	24.37	0.274	30.00	-5.63
		1702.5	-0.60	1 / 50	25.18	24.58	0.287	30.00	-5.42
		1705.0	-0.60	1 / 50	25.07	24.47	0.280	30.00	-5.53
	16-QAM	1702.5	-0.60	1 / 50	24.17	23.57	0.228	30.00	-6.43
	64-QAM	1702.5	-0.60	1 / 50	23.22	22.62	0.183	30.00	-7.38
15 MHz	256-QAM	1700.0	-0.60	1 / 50	20.32	19.72	0.094	30.00	-10.28
	$\pi/2$ BPSK	1702.5	-0.60	1 / 1	25.20	24.60	0.288	30.00	-5.40
	QPSK	1702.5	-0.60	1 / 1	25.17	24.57	0.286	30.00	-5.43
	16-QAM	1702.5	-0.60	1 / 1	24.16	23.56	0.227	30.00	-6.44
	64-QAM	1702.5	-0.60	1 / 1	23.19	22.59	0.182	30.00	-7.41
	256-QAM	1702.5	-0.60	1 / 77	20.27	19.67	0.093	30.00	-10.33

Table 7-5. Antenna 3b EIRP Data (NR Band n70)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 274 of 351

V2.2 09/07/2023

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	24.96	1.30	26.26	0.423	30.00	-3.74
1732.60	WCDMA1700	24.81	1.30	26.11	0.408	30.00	-3.89
1752.60	WCDMA1700	25.16	1.30	26.46	0.443	30.00	-3.54

Table 7-6. Antenna 3b EIRP Data (WCDMA AWS)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 275 of 351

V2.2 09/07/2023

7.6.2 Antenna 1b – ERP

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]
1.4 MHz	QPSK	1710.7	-0.90	1 / 5	25.67	24.77	0.300	30.00	-5.23
		1745.0	-0.90	1 / 0	25.70	24.80	0.302	30.00	-5.20
		1779.3	-0.90	1 / 0	25.35	24.45	0.279	30.00	-5.55
	16-QAM	1710.7	-0.90	1 / 5	24.78	23.88	0.244	30.00	-6.12
	64-QAM	1710.7	-0.90	1 / 0	23.78	22.88	0.194	30.00	-7.12
	256-QAM	1710.7	-0.90	1 / 5	20.71	19.81	0.096	30.00	-10.19
3 MHz	QPSK	1711.5	-0.90	1 / 0	25.61	24.71	0.296	30.00	-5.29
		1745.0	-0.90	1 / 0	25.64	24.74	0.298	30.00	-5.26
		1778.5	-0.90	1 / 7	25.39	24.49	0.281	30.00	-5.51
	16-QAM	1778.5	-0.90	1 / 0	24.85	23.95	0.248	30.00	-6.05
	64-QAM	1745.0	-0.90	1 / 0	23.90	23.00	0.200	30.00	-7.00
	256-QAM	1745.0	-0.90	1 / 0	20.77	19.87	0.097	30.00	-10.13
5 MHz	QPSK	1712.5	-0.90	1 / 0	25.52	24.62	0.290	30.00	-5.38
		1745.0	-0.90	1 / 0	25.53	24.63	0.290	30.00	-5.37
		1777.5	-0.90	1 / 0	25.57	24.67	0.293	30.00	-5.33
	16-QAM	1745.0	-0.90	1 / 0	24.93	24.03	0.253	30.00	-5.97
	64-QAM	1712.5	-0.90	1 / 24	23.74	22.84	0.192	30.00	-7.16
	256-QAM	1745.0	-0.90	1 / 0	20.68	19.78	0.095	30.00	-10.22
10 MHz	QPSK	1715.0	-0.90	1 / 0	25.54	24.64	0.291	30.00	-5.36
		1745.0	-0.90	1 / 0	25.61	24.71	0.296	30.00	-5.29
		1775.0	-0.90	1 / 49	25.49	24.59	0.288	30.00	-5.41
	16-QAM	1745.0	-0.90	1 / 49	25.01	24.11	0.258	30.00	-5.89
	64-QAM	1715.0	-0.90	1 / 49	23.94	23.04	0.201	30.00	-6.96
	256-QAM	1745.0	-0.90	1 / 49	20.70	19.80	0.095	30.00	-10.20
15 MHz	QPSK	1717.5	-0.90	1 / 0	25.42	24.52	0.283	30.00	-5.48
		1745.0	-0.90	1 / 74	25.32	24.42	0.277	30.00	-5.58
		1772.5	-0.90	1 / 0	25.28	24.38	0.274	30.00	-5.62
	16-QAM	1745.0	-0.90	1 / 0	24.80	23.90	0.245	30.00	-6.10
	64-QAM	1745.0	-0.90	1 / 74	23.65	22.75	0.188	30.00	-7.25
	256-QAM	1745.0	-0.90	1 / 74	20.68	19.78	0.095	30.00	-10.22
20 MHz	QPSK	1720.0	-0.90	1 / 99	25.42	24.52	0.283	30.00	-5.48
		1745.0	-0.90	1 / 99	25.42	24.52	0.283	30.00	-5.48
		1770.0	-0.90	1 / 0	25.48	24.58	0.287	30.00	-5.42
	16-QAM	1745.0	-0.90	1 / 0	24.89	23.99	0.251	30.00	-6.01
	64-QAM	1745.0	-0.90	1 / 99	23.71	22.81	0.191	30.00	-7.19
	256-QAM	1720.0	-0.90	1 / 0	20.55	19.65	0.092	30.00	-10.35

Table 7-7. Antenna 1b EIRP Data (LTE Band 66)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 276 of 351

V2.2 09/07/2023

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]
1.4 MHz	QPSK	1710.7	-0.90	1 / 3	25.53	24.63	0.290	30.00	-5.37
		1732.5	-0.90	1 / 0	25.32	24.42	0.277	30.00	-5.58
		1754.3	-0.90	1 / 0	25.46	24.56	0.286	30.00	-5.44
	16-QAM	1732.5	-0.90	1 / 5	24.76	23.86	0.243	30.00	-6.14
	64-QAM	1732.5	-0.90	1 / 5	23.59	22.69	0.186	30.00	-7.31
	256-QAM	1710.7	-0.90	1 / 0	20.64	19.74	0.094	30.00	-10.26
3 MHz	QPSK	1711.5	-0.90	1 / 0	25.49	24.59	0.288	30.00	-5.41
		1732.5	-0.90	1 / 7	25.34	24.44	0.278	30.00	-5.56
		1753.5	-0.90	1 / 0	25.31	24.41	0.276	30.00	-5.59
	16-QAM	1711.5	-0.90	1 / 0	24.86	23.96	0.249	30.00	-6.04
	64-QAM	1732.5	-0.90	1 / 0	23.64	22.74	0.188	30.00	-7.26
	256-QAM	1732.5	-0.90	1 / 0	20.71	19.81	0.096	30.00	-10.19
5 MHz	QPSK	1712.5	-0.90	1 / 0	25.63	24.73	0.297	30.00	-5.27
		1732.5	-0.90	1 / 0	25.70	24.80	0.302	30.00	-5.20
		1752.5	-0.90	1 / 0	25.33	24.43	0.277	30.00	-5.57
	16-QAM	1712.5	-0.90	1 / 0	24.81	23.91	0.246	30.00	-6.09
	64-QAM	1712.5	-0.90	1 / 24	23.65	22.75	0.188	30.00	-7.25
	256-QAM	1732.5	-0.90	1 / 0	20.61	19.71	0.094	30.00	-10.29
10 MHz	QPSK	1715.0	-0.90	1 / 0	25.45	24.55	0.285	30.00	-5.45
		1732.5	-0.90	1 / 0	25.40	24.50	0.282	30.00	-5.50
		1750.0	-0.90	1 / 0	25.26	24.36	0.273	30.00	-5.64
	16-QAM	1715.0	-0.90	1 / 0	24.74	23.84	0.242	30.00	-6.16
	64-QAM	1715.0	-0.90	1 / 49	23.66	22.76	0.189	30.00	-7.24
	256-QAM	1715.0	-0.90	1 / 0	20.68	19.78	0.095	30.00	-10.22
15 MHz	QPSK	1717.5	-0.90	1 / 74	25.31	24.41	0.276	30.00	-5.59
		1732.5	-0.90	1 / 74	25.31	24.41	0.276	30.00	-5.59
		1747.5	-0.90	1 / 74	25.28	24.38	0.274	30.00	-5.62
	16-QAM	1717.5	-0.90	1 / 0	24.71	23.81	0.240	30.00	-6.19
	64-QAM	1747.5	-0.90	1 / 74	23.56	22.66	0.185	30.00	-7.34
	256-QAM	1732.5	-0.90	1 / 74	20.52	19.62	0.092	30.00	-10.38
20 MHz	QPSK	1720.0	-0.90	1 / 99	25.27	24.37	0.274	30.00	-5.63
		1732.5	-0.90	1 / 50	25.25	24.35	0.272	30.00	-5.65
		1745.0	-0.90	1 / 99	25.21	24.31	0.270	30.00	-5.69
	16-QAM	1732.5	-0.90	1 / 0	24.69	23.79	0.239	30.00	-6.21
	64-QAM	1732.5	-0.90	1 / 0	23.50	22.60	0.182	30.00	-7.40
	256-QAM	1732.5	-0.90	1 / 99	20.47	19.57	0.091	30.00	-10.43

Table 7-8. Antenna 1b EIRP Data (LTE Band 4)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 277 of 351

V2.2 09/07/2023

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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]
5 MHz	π/2 BPSK	1712.5	-0.90	1 / 12	25.42	24.52	0.283	30.00	-5.48
		1745.0	-0.90	1 / 23	25.60	24.70	0.295	30.00	-5.30
		1777.5	-0.90	1 / 1	25.70	24.80	0.302	30.00	-5.20
	QPSK	1712.5	-0.90	1 / 12	25.47	24.57	0.286	30.00	-5.43
		1745.0	-0.90	1 / 12	25.60	24.70	0.295	30.00	-5.30
		1777.5	-0.90	1 / 1	25.47	24.57	0.286	30.00	-5.43
	16-QAM	1712.5	-0.90	1 / 12	24.70	23.80	0.240	30.00	-6.20
10 MHz	π/2 BPSK	1712.5	-0.90	1 / 23	23.72	22.82	0.191	30.00	-7.18
		1745.0	-0.90	1 / 1	20.79	19.89	0.097	30.00	-10.11
		1777.5	-0.90	1 / 1	25.62	24.72	0.296	30.00	-5.28
	QPSK	1712.5	-0.90	1 / 50	25.64	24.74	0.298	30.00	-5.26
		1745.0	-0.90	1 / 1	25.70	24.80	0.302	30.00	-5.20
		1775.0	-0.90	1 / 50	25.54	24.64	0.291	30.00	-5.36
	16-QAM	1745.0	-0.90	1 / 1	25.69	24.79	0.301	30.00	-5.21
15 MHz	QPSK	1775.0	-0.90	1 / 50	25.60	24.70	0.295	30.00	-5.30
		1775.0	-0.90	1 / 25	24.67	23.77	0.238	30.00	-6.23
		1775.0	-0.90	1 / 25	23.68	22.78	0.190	30.00	-7.22
	16-QAM	1745.0	-0.90	1 / 25	20.76	19.86	0.097	30.00	-10.14
	64-QAM	1745.0	-0.90	1 / 25	20.76	19.86	0.097	30.00	-10.14
	256-QAM	1745.0	-0.90	1 / 25	20.76	19.86	0.097	30.00	-10.14
	256-QAM	1745.0	-0.90	1 / 25	20.76	19.86	0.097	30.00	-10.14
20 MHz	π/2 BPSK	1717.5	-0.90	1 / 1	25.57	24.67	0.293	30.00	-5.33
		1745.0	-0.90	1 / 77	25.64	24.74	0.298	30.00	-5.26
		1772.5	-0.90	1 / 1	25.56	24.66	0.292	30.00	-5.34
	QPSK	1717.5	-0.90	1 / 36	25.40	24.50	0.282	30.00	-5.50
		1745.0	-0.90	1 / 77	25.70	24.80	0.302	30.00	-5.20
		1772.5	-0.90	1 / 77	25.54	24.64	0.291	30.00	-5.36
	16-QAM	1717.5	-0.90	1 / 36	24.67	23.77	0.238	30.00	-6.23
25 MHz	QPSK	1745.0	-0.90	1 / 77	23.68	22.78	0.190	30.00	-7.22
		1772.5	-0.90	1 / 77	20.74	19.84	0.096	30.00	-10.16
		1772.5	-0.90	1 / 77	20.74	19.84	0.096	30.00	-10.16
	16-QAM	1720.0	-0.90	1 / 50	25.63	24.73	0.297	30.00	-5.27
	64-QAM	1720.0	-0.90	1 / 50	25.63	24.73	0.297	30.00	-5.27
	256-QAM	1720.0	-0.90	1 / 50	25.63	24.73	0.297	30.00	-5.27
	256-QAM	1720.0	-0.90	1 / 50	25.63	24.73	0.297	30.00	-5.27
30 MHz	π/2 BPSK	1722.5	-0.90	1 / 64	25.61	24.71	0.296	30.00	-5.29
		1745.0	-0.90	1 / 1	25.67	24.77	0.300	30.00	-5.23
		1767.5	-0.90	1 / 1	25.65	24.75	0.299	30.00	-5.25
	QPSK	1722.5	-0.90	1 / 64	25.69	24.79	0.301	30.00	-5.21
		1745.0	-0.90	1 / 64	25.40	24.50	0.282	30.00	-5.50
		1767.5	-0.90	1 / 131	25.70	24.80	0.302	30.00	-5.20
	16-QAM	1767.5	-0.90	1 / 1	24.68	23.78	0.239	30.00	-6.22
35 MHz	QPSK	1767.5	-0.90	1 / 1	23.69	22.79	0.190	30.00	-7.21
		1767.5	-0.90	1 / 131	20.80	19.90	0.098	30.00	-10.10
		1767.5	-0.90	1 / 131	20.80	19.90	0.098	30.00	-10.10
	16-QAM	1725.0	-0.90	1 / 1	25.27	24.37	0.274	30.00	-5.63
	64-QAM	1745.0	-0.90	1 / 80	25.63	24.73	0.297	30.00	-5.27
	256-QAM	1765.0	-0.90	1 / 80	25.70	24.80	0.302	30.00	-5.20
	256-QAM	1765.0	-0.90	1 / 80	25.70	24.80	0.302	30.00	-5.20
40 MHz	QPSK	1725.0	-0.90	1 / 158	25.41	24.51	0.282	30.00	-5.49
		1745.0	-0.90	1 / 80	25.62	24.72	0.296	30.00	-5.28
		1765.0	-0.90	1 / 80	25.61	24.71	0.296	30.00	-5.29
	16-QAM	1765.0	-0.90	1 / 1	24.69	23.79	0.239	30.00	-6.21
	64-QAM	1765.0	-0.90	1 / 80	23.63	22.73	0.187	30.00	-7.27
	256-QAM	1765.0	-0.90	1 / 80	20.75	19.85	0.097	30.00	-10.15
	256-QAM	1765.0	-0.90	1 / 80	20.75	19.85	0.097	30.00	-10.15
45 MHz	π/2 BPSK	1727.5	-0.90	1 / 90	25.69	24.79	0.301	30.00	-5.21
		1745.0	-0.90	1 / 186	25.34	24.44	0.278	30.00	-5.56
		1762.5	-0.90	1 / 1	25.63	24.73	0.297	30.00	-5.27
	QPSK	1727.5	-0.90	1 / 90	25.66	24.76	0.299	30.00	-5.24
		1745.0	-0.90	1 / 1	25.62	24.72	0.296	30.00	-5.28
		1762.5	-0.90	1 / 90	25.70	24.80	0.302	30.00	-5.20
	16-QAM	1727.5	-0.90	1 / 186	24.66	23.76	0.238	30.00	-6.24
50 MHz	QPSK	1745.0	-0.90	1 / 90	23.69	22.79	0.190	30.00	-7.21
		1745.0	-0.90	1 / 90	20.82	19.92	0.098	30.00	-10.08
		1745.0	-0.90	1 / 90	20.82	19.92	0.098	30.00	-10.08
	16-QAM	1730.0	-0.90	1 / 1	25.48	24.58	0.287	30.00	-5.42
	64-QAM	1745.0	-0.90	1 / 1	25.60	24.70	0.295	30.00	-5.30
	256-QAM	1760.0	-0.90	1 / 214	25.54	24.64	0.291	30.00	-5.36
	256-QAM	1730.0	-0.90	1 / 1	25.44	24.54	0.284	30.00	-5.46
55 MHz	QPSK	1745.0	-0.90	1 / 108	25.70	24.80	0.302	30.00	-5.20
		1760.0	-0.90	1 / 214	25.70	24.80	0.302	30.00	-5.20
		1760.0	-0.90	1 / 1	24.73	23.83	0.242	30.00	-6.17
	16-QAM	1760.0	-0.90	1 / 108	23.77	22.87	0.194	30.00	-7.13
	64-QAM	1760.0	-0.90	1 / 108	23.77	22.87	0.194	30.00	-7.13
	256-QAM	1745.0	-0.90	1 / 108	20.79	19.89	0.097	30.00	-10.11
	256-QAM	1745.0	-0.90	1 / 108	20.79	19.89	0.097	30.00	-10.11

Table 7-9. Antenna 1b EIRP Data (NR Band n66)

FCC ID: BCGA2995		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 278 of 351

V2.2 09/07/2023

NR Band n70

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1697.5	-2.50	1 / 12	25.68	23.18	0.208	30.00	-6.82
		1702.5	-2.50	1 / 12	25.65	23.15	0.207	30.00	-6.85
		1707.5	-2.50	1 / 1	25.65	23.15	0.207	30.00	-6.85
	QPSK	1697.5	-2.50	1 / 12	25.66	23.16	0.207	30.00	-6.84
		1702.5	-2.50	1 / 12	25.50	23.00	0.200	30.00	-7.00
		1707.5	-2.50	1 / 1	25.70	23.20	0.209	30.00	-6.80
	16-QAM	1707.5	-2.50	1 / 23	24.74	22.24	0.167	30.00	-7.76
	64-QAM	1697.5	-2.50	1 / 23	23.56	21.06	0.128	30.00	-8.94
	256-QAM	1697.5	-2.50	1 / 1	20.85	18.35	0.068	30.00	-11.65
10 MHz	$\pi/2$ BPSK	1697.5	-2.50	1 / 1	25.70	23.20	0.209	30.00	-6.80
		1702.5	-2.50	1 / 25	25.67	23.17	0.207	30.00	-6.83
		1707.5	-2.50	1 / 50	25.45	22.95	0.197	30.00	-7.05
	QPSK	1697.5	-2.50	1 / 50	25.69	23.19	0.208	30.00	-6.81
		1702.5	-2.50	1 / 1	25.44	22.94	0.197	30.00	-7.06
		1707.5	-2.50	1 / 25	25.63	23.13	0.206	30.00	-6.87
	16-QAM	1702.5	-2.50	1 / 50	24.70	22.20	0.166	30.00	-7.80
	64-QAM	1702.5	-2.50	1 / 50	23.70	21.20	0.132	30.00	-8.80
15 MHz	256-QAM	1697.5	-2.50	1 / 25	20.81	18.31	0.068	30.00	-11.69
	$\pi/2$ BPSK	1702.5	-2.50	1 / 36	25.64	23.14	0.206	30.00	-6.86
		1702.5	-2.50	1 / 1	25.70	23.20	0.209	30.00	-6.80
		1702.5	-2.50	1 / 77	24.61	22.11	0.163	30.00	-7.89
	16-QAM	1702.5	-2.50	1 / 36	23.70	21.20	0.132	30.00	-8.80
	64-QAM	1702.5	-2.50	1 / 36	23.70	21.20	0.132	30.00	-8.80
	256-QAM	1702.5	-2.50	1 / 77	20.84	18.34	0.068	30.00	-11.66
	256-QAM	1702.5	-2.50	1 / 77	20.84	18.34	0.068	30.00	-11.66

Table 7-10. Antenna 1b EIRP Data (NR Band n70)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 279 of 351

V2.2 09/07/2023

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	23.51	-0.90	22.61	0.182	30.00	-7.39
1732.60	WCDMA1700	23.39	-0.90	22.49	0.177	30.00	-7.51
1752.60	WCDMA1700	23.44	-0.90	22.54	0.179	30.00	-7.46

Table 7-11. Antenna 1b EIRP Data (WCDMA AWS)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 280 of 351

V2.2 09/07/2023

7.6.3 Antenna 4 – EIRP

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]
1.4 MHz	QPSK	1710.7	-1.80	1 / 0	24.20	22.40	0.174	30.00	-7.60
		1745.0	-1.80	1 / 0	24.12	22.32	0.171	30.00	-7.68
		1779.3	-1.80	1 / 0	24.13	22.33	0.171	30.00	-7.67
	16-QAM	1745.0	-1.80	1 / 3	23.19	21.39	0.138	30.00	-8.61
	64-QAM	1745.0	-1.80	1 / 5	22.19	20.39	0.109	30.00	-9.61
	256-QAM	1779.3	-1.80	1 / 5	19.18	17.38	0.055	30.00	-12.62
3 MHz	QPSK	1711.5	-1.80	1 / 14	23.86	22.06	0.161	30.00	-7.94
		1745.0	-1.80	1 / 7	24.08	22.28	0.169	30.00	-7.72
		1778.5	-1.80	1 / 0	24.14	22.34	0.171	30.00	-7.66
	16-QAM	1778.5	-1.80	1 / 7	23.11	21.31	0.135	30.00	-8.69
	64-QAM	1711.5	-1.80	1 / 0	22.24	20.44	0.111	30.00	-9.56
	256-QAM	1711.5	-1.80	1 / 0	19.22	17.42	0.055	30.00	-12.58
5 MHz	QPSK	1712.5	-1.80	1 / 12	24.16	22.36	0.172	30.00	-7.64
		1745.0	-1.80	1 / 12	23.84	22.04	0.160	30.00	-7.96
		1777.5	-1.80	1 / 12	24.14	22.34	0.171	30.00	-7.66
	16-QAM	1745.0	-1.80	1 / 24	23.16	21.36	0.137	30.00	-8.64
	64-QAM	1777.5	-1.80	1 / 24	22.13	20.33	0.108	30.00	-9.67
	256-QAM	1777.5	-1.80	1 / 12	19.28	17.48	0.056	30.00	-12.52
10 MHz	QPSK	1715.0	-1.80	1 / 0	24.20	22.40	0.174	30.00	-7.60
		1745.0	-1.80	1 / 0	24.14	22.34	0.171	30.00	-7.66
		1775.0	-1.80	1 / 0	24.15	22.35	0.172	30.00	-7.65
	16-QAM	1775.0	-1.80	1 / 49	23.12	21.32	0.136	30.00	-8.68
	64-QAM	1745.0	-1.80	1 / 25	22.09	20.29	0.107	30.00	-9.71
	256-QAM	1745.0	-1.80	1 / 0	19.18	17.38	0.055	30.00	-12.62
15 MHz	QPSK	1717.5	-1.80	1 / 37	24.14	22.34	0.171	30.00	-7.66
		1745.0	-1.80	1 / 0	24.20	22.40	0.174	30.00	-7.60
		1772.5	-1.80	1 / 0	23.90	22.10	0.162	30.00	-7.90
	16-QAM	1745.0	-1.80	1 / 37	23.11	21.31	0.135	30.00	-8.69
	64-QAM	1745.0	-1.80	1 / 0	22.20	20.40	0.110	30.00	-9.60
	256-QAM	1772.5	-1.80	1 / 37	19.30	17.50	0.056	30.00	-12.50
20 MHz	QPSK	1720.0	-1.80	1 / 0	24.18	22.38	0.173	30.00	-7.62
		1745.0	-1.80	1 / 50	24.17	22.37	0.173	30.00	-7.63
		1770.0	-1.80	1 / 50	24.18	22.38	0.173	30.00	-7.62
	16-QAM	1745.0	-1.80	1 / 0	23.21	21.41	0.138	30.00	-8.59
	64-QAM	1745.0	-1.80	1 / 99	22.20	20.40	0.110	30.00	-9.60
	256-QAM	1745.0	-1.80	1 / 99	19.26	17.46	0.056	30.00	-12.54

Table 7-12. Antenna 4 EIRP Data (LTE Band 66)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 281 of 351

V2.2 09/07/2023

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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]
1.4 MHz	QPSK	1710.7	-1.80	1 / 5	23.97	22.17	0.165	30.00	-7.83
		1732.5	-1.80	1 / 3	24.12	22.32	0.171	30.00	-7.68
		1754.3	-1.80	1 / 3	24.20	22.40	0.174	30.00	-7.60
	16-QAM	1710.7	-1.80	1 / 5	23.07	21.27	0.134	30.00	-8.73
	64-QAM	1710.7	-1.80	1 / 5	22.13	20.33	0.108	30.00	-9.67
	256-QAM	1732.5	-1.80	1 / 0	19.30	17.50	0.056	30.00	-12.50
3 MHz	QPSK	1711.5	-1.80	1 / 0	24.13	22.33	0.171	30.00	-7.67
		1732.5	-1.80	1 / 14	23.96	22.16	0.164	30.00	-7.84
		1753.5	-1.80	1 / 14	24.20	22.40	0.174	30.00	-7.60
	16-QAM	1753.5	-1.80	1 / 14	23.15	21.35	0.136	30.00	-8.65
	64-QAM	1711.5	-1.80	1 / 14	22.20	20.40	0.110	30.00	-9.60
	256-QAM	1732.5	-1.80	1 / 14	19.24	17.44	0.055	30.00	-12.56
5 MHz	QPSK	1712.5	-1.80	1 / 12	24.10	22.30	0.170	30.00	-7.70
		1732.5	-1.80	1 / 12	24.08	22.28	0.169	30.00	-7.72
		1752.5	-1.80	1 / 0	24.14	22.34	0.171	30.00	-7.66
	16-QAM	1752.5	-1.80	1 / 24	23.19	21.39	0.138	30.00	-8.61
	64-QAM	1712.5	-1.80	1 / 12	22.24	20.44	0.111	30.00	-9.56
	256-QAM	1732.5	-1.80	1 / 24	19.29	17.49	0.056	30.00	-12.51
10 MHz	QPSK	1715.0	-1.80	1 / 0	23.83	22.03	0.160	30.00	-7.97
		1732.5	-1.80	1 / 0	23.94	22.14	0.164	30.00	-7.86
		1750.0	-1.80	1 / 0	24.08	22.28	0.169	30.00	-7.72
	16-QAM	1732.5	-1.80	1 / 0	23.19	21.39	0.138	30.00	-8.61
	64-QAM	1750.0	-1.80	1 / 0	22.20	20.40	0.110	30.00	-9.60
	256-QAM	1732.5	-1.80	1 / 0	19.28	17.48	0.056	30.00	-12.52
15 MHz	QPSK	1717.5	-1.80	1 / 0	23.84	22.04	0.160	30.00	-7.96
		1732.5	-1.80	1 / 0	24.00	22.20	0.166	30.00	-7.80
		1747.5	-1.80	1 / 0	24.00	22.20	0.166	30.00	-7.80
	16-QAM	1717.5	-1.80	1 / 74	23.15	21.35	0.136	30.00	-8.65
	64-QAM	1717.5	-1.80	1 / 37	22.11	20.31	0.107	30.00	-9.69
	256-QAM	1732.5	-1.80	1 / 74	19.28	17.48	0.056	30.00	-12.52
20 MHz	QPSK	1720.0	-1.80	1 / 0	24.13	22.33	0.171	30.00	-7.67
		1732.5	-1.80	1 / 99	24.09	22.29	0.169	30.00	-7.71
		1745.0	-1.80	1 / 99	24.20	22.40	0.174	30.00	-7.60
	16-QAM	1745.0	-1.80	1 / 0	23.05	21.25	0.133	30.00	-8.75
	64-QAM	1732.5	-1.80	1 / 0	22.21	20.41	0.110	30.00	-9.59
	256-QAM	1732.5	-1.80	1 / 50	19.31	17.51	0.056	30.00	-12.49

Table 7-13. Antenna 4 EIRP Data (LTE Band 4)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 282 of 351

V2.2 09/07/2023

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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]
5 MHz	QPSK	665.5	-3.70	1 / 24	25.20	19.35	0.086	34.77	-15.42
		680.5	-3.70	1 / 0	25.40	19.55	0.090	34.77	-15.22
		695.5	-3.70	1 / 0	25.39	19.54	0.090	34.77	-15.23
	16-QAM	665.5	-3.70	1 / 12	24.41	18.56	0.072	34.77	-16.21
	64-QAM	665.5	-3.70	1 / 24	23.31	17.46	0.056	34.77	-17.31
	256-QAM	680.5	-3.70	1 / 12	20.50	14.65	0.029	34.77	-20.12
10 MHz	QPSK	668.0	-3.70	1 / 25	25.22	19.37	0.086	34.77	-15.40
		680.5	-3.70	1 / 0	25.40	19.55	0.090	34.77	-15.22
		693.0	-3.70	1 / 0	24.97	19.12	0.082	34.77	-15.65
	16-QAM	693.0	-3.70	1 / 25	24.32	18.47	0.070	34.77	-16.30
	64-QAM	668.0	-3.70	1 / 25	23.36	17.51	0.056	34.77	-17.26
	256-QAM	680.5	-3.70	1 / 0	20.45	14.60	0.029	34.77	-20.17
15 MHz	QPSK	670.5	-3.70	1 / 74	25.15	19.30	0.085	34.77	-15.47
		680.5	-3.70	1 / 0	25.40	19.55	0.090	34.77	-15.22
		690.5	-3.70	1 / 74	25.30	19.45	0.088	34.77	-15.32
	16-QAM	690.5	-3.70	1 / 74	24.43	18.58	0.072	34.77	-16.19
	64-QAM	690.5	-3.70	1 / 0	23.44	17.59	0.057	34.77	-17.18
	256-QAM	680.5	-3.70	1 / 0	20.47	14.62	0.029	34.77	-20.15
20 MHz	QPSK	673.0	-3.70	1 / 99	25.20	19.35	0.086	34.77	-15.42
		680.5	-3.70	1 / 50	25.19	19.34	0.086	34.77	-15.43
		688.0	-3.70	1 / 50	25.23	19.38	0.087	34.77	-15.39
	16-QAM	688.0	-3.70	1 / 99	24.38	18.53	0.071	34.77	-16.24
	64-QAM	673.0	-3.70	1 / 50	23.37	17.52	0.056	34.77	-17.25
	256-QAM	673.0	-3.70	1 / 99	20.46	14.61	0.029	34.77	-20.16

Table 7-14. Antenna 4 ERP Data (LTE Band 71)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 283 of 351

V2.2 09/07/2023

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]
1.4 MHz	QPSK	699.7	-3.60	1 / 0	24.12	18.37	0.069	34.77	-16.40
		707.5	-3.60	1 / 0	24.22	18.47	0.070	34.77	-16.30
		715.3	-3.60	1 / 0	24.22	18.47	0.070	34.77	-16.30
	16-QAM	699.7	-3.60	1 / 3	23.29	17.54	0.057	34.77	-17.23
	64-QAM	707.5	-3.60	1 / 0	22.28	16.53	0.045	34.77	-18.24
	256-QAM	715.3	-3.60	1 / 0	19.22	13.47	0.022	34.77	-21.30
3 MHz	QPSK	700.5	-3.60	1 / 0	24.20	18.45	0.070	34.77	-16.32
		707.5	-3.60	1 / 7	24.15	18.40	0.069	34.77	-16.37
		714.5	-3.60	1 / 7	24.15	18.40	0.069	34.77	-16.37
	16-QAM	700.5	-3.60	1 / 7	23.29	17.54	0.057	34.77	-17.23
	64-QAM	714.5	-3.60	1 / 14	22.36	16.61	0.046	34.77	-18.16
	256-QAM	707.5	-3.60	1 / 14	19.21	13.46	0.022	34.77	-21.31
5 MHz	QPSK	701.5	-3.60	1 / 0	25.23	19.48	0.089	34.77	-15.29
		707.5	-3.60	1 / 0	25.40	19.65	0.092	34.77	-15.12
		713.5	-3.60	1 / 24	25.26	19.51	0.089	34.77	-15.26
	16-QAM	707.5	-3.60	1 / 0	24.69	18.94	0.078	34.77	-15.83
	64-QAM	707.5	-3.60	1 / 12	23.60	17.85	0.061	34.77	-16.92
	256-QAM	701.5	-3.60	1 / 12	20.44	14.69	0.029	34.77	-20.08
10 MHz	QPSK	704.0	-3.60	1 / 49	25.19	19.44	0.088	34.77	-15.33
		707.5	-3.60	1 / 0	25.25	19.50	0.089	34.77	-15.27
		711.0	-3.60	1 / 25	25.27	19.52	0.090	34.77	-15.25
	16-QAM	704.0	-3.60	1 / 49	24.61	18.86	0.077	34.77	-15.91
	64-QAM	704.0	-3.60	1 / 0	23.52	17.77	0.060	34.77	-17.00
	256-QAM	711.0	-3.60	1 / 25	20.43	14.68	0.029	34.77	-20.09

Table 7-15. Antenna 4 ERP Data (LTE Band 12)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 284 of 351

V2.2 09/07/2023

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]
5 MHz	QPSK	706.5	-3.60	1 / 0	25.40	19.65	0.092	34.77	-15.12
		710.0	-3.60	1 / 12	25.21	19.46	0.088	34.77	-15.31
		713.5	-3.60	1 / 24	25.07	19.32	0.086	34.77	-15.45
	16-QAM	706.5	-3.60	1 / 0	24.60	18.85	0.077	34.77	-15.92
	64-QAM	706.5	-3.60	1 / 24	23.55	17.80	0.060	34.77	-16.97
	256-QAM	710.0	-3.60	1 / 0	20.61	14.86	0.031	34.77	-19.91
10 MHz	QPSK	709.0	-3.60	1 / 0	25.15	19.40	0.087	34.77	-15.37
		710.0	-3.60	1 / 25	25.22	19.47	0.089	34.77	-15.30
		711.0	-3.60	1 / 25	25.20	19.45	0.088	34.77	-15.32
	16-QAM	709.0	-3.60	1 / 0	24.52	18.77	0.075	34.77	-16.00
	64-QAM	709.0	-3.60	1 / 0	23.51	17.76	0.060	34.77	-17.01
	256-QAM	709.0	-3.60	1 / 0	20.41	14.66	0.029	34.77	-20.11

Table 7-16. Antenna 4 ERP Data (LTE Band 17)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 285 of 351

V2.2 09/07/2023

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]
5 MHz	QPSK	779.5	-2.10	1 / 24	25.27	21.02	0.126	34.77	-13.75
		782.0	-2.10	1 / 0	25.40	21.15	0.130	34.77	-13.62
		784.5	-2.10	1 / 0	25.40	21.15	0.130	34.77	-13.62
	16-QAM	784.5	-2.10	1 / 12	24.85	20.60	0.115	34.77	-14.17
	64-QAM	779.5	-2.10	1 / 24	23.74	19.49	0.089	34.77	-15.28
	256-QAM	779.5	-2.10	1 / 0	20.59	16.34	0.043	34.77	-18.43
10 MHz	QPSK	782.0	-2.10	1 / 0	25.40	21.15	0.130	34.77	-13.62
	16-QAM	782.0	-2.10	1 / 49	24.93	20.68	0.117	34.77	-14.09
	64-QAM	782.0	-2.10	1 / 0	23.68	19.43	0.088	34.77	-15.34
	256-QAM	782.0	-2.10	1 / 0	20.63	16.38	0.043	34.77	-18.39

Table 7-17. Antenna 4 ERP Data (LTE Band 13)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 286 of 351

V2.2 09/07/2023

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]
5 MHz	π/2 BPSK	1712.5	-1.80	1 / 12	24.00	22.20	0.166	30.00	-7.80
		1745.0	-1.80	1 / 1	24.06	22.26	0.168	30.00	-7.74
		1777.5	-1.80	1 / 12	24.18	22.38	0.173	30.00	-7.62
	QPSK	1712.5	-1.80	1 / 12	24.20	22.40	0.174	30.00	-7.60
		1745.0	-1.80	1 / 12	24.09	22.29	0.169	30.00	-7.71
		1777.5	-1.80	1 / 12	24.05	22.25	0.168	30.00	-7.75
	16-QAM	1777.5	-1.80	1 / 23	23.19	21.39	0.138	30.00	-8.61
	64-QAM	1712.5	-1.80	1 / 1	22.21	20.41	0.110	30.00	-9.59
256-QAM	1712.5	-1.80	1 / 1	19.32	17.52	0.056	30.00	-12.48	
10 MHz	π/2 BPSK	1715.0	-1.80	1 / 1	24.20	22.40	0.174	30.00	-7.60
		1745.0	-1.80	1 / 25	23.90	22.10	0.162	30.00	-7.90
		1775.0	-1.80	1 / 25	24.00	22.20	0.166	30.00	-7.80
	QPSK	1715.0	-1.80	1 / 1	24.13	22.33	0.171	30.00	-7.67
		1745.0	-1.80	1 / 50	24.19	22.39	0.173	30.00	-7.61
		1775.0	-1.80	1 / 1	24.06	22.26	0.168	30.00	-7.74
	16-QAM	1745.0	-1.80	1 / 25	23.10	21.30	0.135	30.00	-8.70
	64-QAM	1715.0	-1.80	1 / 25	22.25	20.45	0.111	30.00	-9.55
256-QAM	1775.0	-1.80	1 / 50	19.30	17.50	0.056	30.00	-12.50	
15 MHz	π/2 BPSK	1717.5	-1.80	1 / 77	24.18	22.38	0.173	30.00	-7.62
		1745.0	-1.80	1 / 36	24.14	22.34	0.171	30.00	-7.66
		1772.5	-1.80	1 / 77	24.13	22.33	0.171	30.00	-7.67
	QPSK	1717.5	-1.80	1 / 1	24.09	22.29	0.169	30.00	-7.71
		1745.0	-1.80	1 / 77	24.20	22.40	0.174	30.00	-7.60
		1772.5	-1.80	1 / 36	24.01	22.21	0.166	30.00	-7.79
	16-QAM	1745.0	-1.80	1 / 77	23.11	21.31	0.135	30.00	-8.69
	64-QAM	1717.5	-1.80	1 / 36	22.20	20.40	0.110	30.00	-9.60
256-QAM	1772.5	-1.80	1 / 77	19.30	17.50	0.056	30.00	-12.50	
20 MHz	π/2 BPSK	1720.0	-1.80	1 / 1	24.17	22.37	0.173	30.00	-7.63
		1745.0	-1.80	1 / 104	23.91	22.11	0.163	30.00	-7.89
		1770.0	-1.80	1 / 1	24.20	22.40	0.174	30.00	-7.60
	QPSK	1720.0	-1.80	1 / 104	24.20	22.40	0.174	30.00	-7.60
		1745.0	-1.80	1 / 50	24.13	22.33	0.171	30.00	-7.67
		1770.0	-1.80	1 / 50	24.16	22.36	0.172	30.00	-7.64
	16-QAM	1720.0	-1.80	1 / 50	23.17	21.37	0.137	30.00	-8.63
	64-QAM	1770.0	-1.80	1 / 1	22.21	20.41	0.110	30.00	-9.59
256-QAM	1720.0	-1.80	1 / 104	19.23	17.43	0.055	30.00	-12.57	
25 MHz	π/2 BPSK	1722.5	-1.80	1 / 64	23.97	22.17	0.165	30.00	-7.83
		1745.0	-1.80	1 / 64	24.07	22.27	0.169	30.00	-7.73
		1767.5	-1.80	1 / 131	24.02	22.22	0.167	30.00	-7.78
	QPSK	1722.5	-1.80	1 / 131	24.14	22.34	0.171	30.00	-7.66
		1745.0	-1.80	1 / 131	24.17	22.37	0.173	30.00	-7.63
		1767.5	-1.80	1 / 1	24.20	22.40	0.174	30.00	-7.60
	16-QAM	1767.5	-1.80	1 / 1	23.12	21.32	0.136	30.00	-8.68
	64-QAM	1722.5	-1.80	1 / 64	22.01	20.21	0.105	30.00	-9.79
256-QAM	1722.5	-1.80	1 / 131	19.29	17.49	0.056	30.00	-12.51	
30 MHz	π/2 BPSK	1725.0	-1.80	1 / 1	24.18	22.38	0.173	30.00	-7.62
		1745.0	-1.80	1 / 80	24.16	22.36	0.172	30.00	-7.64
		1765.0	-1.80	1 / 80	23.86	22.06	0.161	30.00	-7.94
	QPSK	1725.0	-1.80	1 / 80	24.20	22.40	0.174	30.00	-7.60
		1745.0	-1.80	1 / 80	24.05	22.25	0.168	30.00	-7.75
		1765.0	-1.80	1 / 80	23.89	22.09	0.162	30.00	-7.91
	16-QAM	1765.0	-1.80	1 / 80	23.20	21.40	0.138	30.00	-8.60
	64-QAM	1725.0	-1.80	1 / 1	22.21	20.41	0.110	30.00	-9.59
256-QAM	1725.0	-1.80	1 / 80	19.32	17.52	0.056	30.00	-12.48	
35 MHz	π/2 BPSK	1727.5	-1.80	1 / 90	24.05	22.25	0.168	30.00	-7.75
		1745.0	-1.80	1 / 1	24.06	22.26	0.168	30.00	-7.74
		1762.5	-1.80	1 / 186	24.17	22.37	0.173	30.00	-7.63
	QPSK	1727.5	-1.80	1 / 90	23.98	22.18	0.165	30.00	-7.82
		1745.0	-1.80	1 / 90	24.14	22.34	0.171	30.00	-7.66
		1762.5	-1.80	1 / 186	24.20	22.40	0.174	30.00	-7.60
	16-QAM	1745.0	-1.80	1 / 186	23.26	21.46	0.140	30.00	-8.54
	64-QAM	1727.5	-1.80	1 / 1	22.23	20.43	0.110	30.00	-9.57
256-QAM	1745.0	-1.80	1 / 90	19.26	17.46	0.056	30.00	-12.54	
40 MHz	π/2 BPSK	1730.0	-1.80	1 / 1	24.09	22.29	0.169	30.00	-7.71
		1745.0	-1.80	1 / 108	24.14	22.34	0.171	30.00	-7.66
		1760.0	-1.80	1 / 1	24.20	22.40	0.174	30.00	-7.60
	QPSK	1730.0	-1.80	1 / 214	23.85	22.05	0.160	30.00	-7.95
		1745.0	-1.80	1 / 1	24.04	22.24	0.167	30.00	-7.76
		1760.0	-1.80	1 / 1	24.00	22.20	0.166	30.00	-7.80
	16-QAM	1760.0	-1.80	1 / 214	23.24	21.44	0.139	30.00	-8.56
	64-QAM	1760.0	-1.80	1 / 214	22.24	20.44	0.111	30.00	-9.56
256-QAM	1730.0	-1.80	1 / 1	19.37	17.57	0.057	30.00	-12.46	

Table 7-18. Antenna 4 EIRP Data (NR Band n66)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 287 of 351

V2.2 09/07/2023

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NR Band n70

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1697.5	-5.30	1 / 1	23.97	18.67	0.074	30.00	-11.33
		1702.5	-5.30	1 / 12	23.89	18.59	0.072	30.00	-11.41
		1707.5	-5.30	1 / 1	24.16	18.86	0.077	30.00	-11.14
	QPSK	1697.5	-5.30	1 / 12	24.11	18.81	0.076	30.00	-11.19
		1702.5	-5.30	1 / 1	24.20	18.90	0.078	30.00	-11.10
		1707.5	-5.30	1 / 1	24.07	18.77	0.075	30.00	-11.23
	16-QAM	1702.5	-5.30	1 / 12	23.09	17.79	0.060	30.00	-12.21
	64-QAM	1707.5	-5.30	1 / 23	22.16	16.86	0.049	30.00	-13.14
	256-QAM	1702.5	-5.30	1 / 12	19.27	13.97	0.025	30.00	-16.03
10 MHz	$\pi/2$ BPSK	1697.5	-5.30	1 / 25	24.20	18.90	0.078	30.00	-11.10
		1702.5	-5.30	1 / 50	23.96	18.66	0.073	30.00	-11.34
		1707.5	-5.30	1 / 1	24.17	18.87	0.077	30.00	-11.13
	QPSK	1697.5	-5.30	1 / 1	24.20	18.90	0.078	30.00	-11.10
		1702.5	-5.30	1 / 1	24.19	18.89	0.077	30.00	-11.11
		1707.5	-5.30	1 / 50	24.10	18.80	0.076	30.00	-11.20
	16-QAM	1702.5	-5.30	1 / 25	23.21	17.91	0.062	30.00	-12.09
	64-QAM	1702.5	-5.30	1 / 50	22.13	16.83	0.048	30.00	-13.17
	256-QAM	1707.5	-5.30	1 / 1	19.25	13.95	0.025	30.00	-16.05
15 MHz	$\pi/2$ BPSK	1702.5	-5.30	1 / 36	24.08	18.78	0.076	30.00	-11.22
	QPSK	1702.5	-5.30	1 / 77	23.98	18.68	0.074	30.00	-11.32
	16-QAM	1702.5	-5.30	1 / 1	23.13	17.83	0.061	30.00	-12.17
	64-QAM	1702.5	-5.30	1 / 36	22.13	16.83	0.048	30.00	-13.17
	256-QAM	1702.5	-5.30	1 / 1	19.26	13.96	0.025	30.00	-16.04

Table 7-19. Antenna 4 EIRP Data (NR Band n70)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 288 of 351

V2.2 09/07/2023

NR Band n71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	665.5	-3.70	1 / 12	25.33	19.48	0.089	34.77	-15.29
		680.5	-3.70	1 / 1	25.39	19.54	0.090	34.77	-15.23
		695.5	-3.70	1 / 23	25.31	19.46	0.088	34.77	-15.31
	QPSK	665.5	-3.70	1 / 23	25.40	19.55	0.090	34.77	-15.22
		680.5	-3.70	1 / 1	25.28	19.43	0.088	34.77	-15.34
		695.5	-3.70	1 / 12	25.14	19.29	0.085	34.77	-15.48
	16-QAM	695.5	-3.70	1 / 12	24.38	18.53	0.071	34.77	-16.24
	64-QAM	695.5	-3.70	1 / 23	23.37	17.52	0.056	34.77	-17.25
	256-QAM	695.5	-3.70	1 / 23	20.46	14.61	0.029	34.77	-20.16
10 MHz	$\pi/2$ BPSK	668.0	-3.70	1 / 25	25.34	19.49	0.089	34.77	-15.28
		680.5	-3.70	1 / 50	25.21	19.36	0.086	34.77	-15.41
		693.0	-3.70	1 / 1	25.28	19.43	0.088	34.77	-15.34
	QPSK	668.0	-3.70	1 / 25	25.40	19.55	0.090	34.77	-15.22
		680.5	-3.70	1 / 50	25.36	19.51	0.089	34.77	-15.26
		693.0	-3.70	1 / 25	25.38	19.53	0.090	34.77	-15.24
	16-QAM	693.0	-3.70	1 / 50	24.40	18.55	0.072	34.77	-16.22
	64-QAM	668.0	-3.70	1 / 1	23.41	17.56	0.057	34.77	-17.21
	256-QAM	693.0	-3.70	1 / 1	20.47	14.62	0.029	34.77	-20.15
15 MHz	$\pi/2$ BPSK	670.5	-3.70	1 / 77	25.40	19.55	0.090	34.77	-15.22
		680.5	-3.70	1 / 77	25.39	19.54	0.090	34.77	-15.23
		690.5	-3.70	1 / 77	25.39	19.54	0.090	34.77	-15.23
	QPSK	670.5	-3.70	1 / 77	25.07	19.22	0.084	34.77	-15.55
		680.5	-3.70	1 / 77	25.24	19.39	0.087	34.77	-15.38
		690.5	-3.70	1 / 77	25.24	19.39	0.087	34.77	-15.38
	16-QAM	690.5	-3.70	1 / 77	24.34	18.49	0.071	34.77	-16.28
	64-QAM	690.5	-3.70	1 / 36	23.37	17.52	0.056	34.77	-17.25
	256-QAM	680.5	-3.70	1 / 1	20.55	14.70	0.030	34.77	-20.07
20 MHz	$\pi/2$ BPSK	673.0	-3.70	1 / 50	25.23	19.38	0.087	34.77	-15.39
		680.5	-3.70	1 / 1	25.28	19.43	0.088	34.77	-15.34
		688.0	-3.70	1 / 50	25.33	19.48	0.089	34.77	-15.29
	QPSK	673.0	-3.70	1 / 1	25.39	19.54	0.090	34.77	-15.23
		680.5	-3.70	1 / 1	25.06	19.21	0.083	34.77	-15.56
		688.0	-3.70	1 / 104	25.40	19.55	0.090	34.77	-15.22
	16-QAM	688.0	-3.70	1 / 104	24.41	18.56	0.072	34.77	-16.21
	64-QAM	680.5	-3.70	1 / 50	23.40	17.55	0.057	34.77	-17.22
	256-QAM	673.0	-3.70	1 / 1	20.45	14.60	0.029	34.77	-20.17

Table 7-20. Antenna 4 ERP Data (NR Band n71)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 289 of 351

V2.2 09/07/2023

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NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	701.5	-3.60	1 / 12	25.23	19.48	0.089	34.77	-15.29
		707.5	-3.60	1 / 1	25.40	19.65	0.092	34.77	-15.12
		713.5	-3.60	1 / 1	25.30	19.55	0.090	34.77	-15.22
	QPSK	701.5	-3.60	1 / 1	25.23	19.48	0.089	34.77	-15.29
		707.5	-3.60	1 / 23	25.34	19.59	0.091	34.77	-15.18
		713.5	-3.60	1 / 12	25.28	19.53	0.090	34.77	-15.24
	16-QAM	701.5	-3.60	1 / 12	24.38	18.63	0.073	34.77	-16.14
	64-QAM	707.5	-3.60	1 / 23	23.40	17.65	0.058	34.77	-17.12
	256-QAM	701.5	-3.60	1 / 23	20.50	14.75	0.030	34.77	-20.02
10 MHz	$\pi/2$ BPSK	704.0	-3.60	1 / 1	25.13	19.38	0.087	34.77	-15.39
		707.5	-3.60	1 / 50	25.40	19.65	0.092	34.77	-15.12
		711.0	-3.60	1 / 1	25.02	19.27	0.085	34.77	-15.50
	QPSK	704.0	-3.60	1 / 50	25.27	19.52	0.090	34.77	-15.25
		707.5	-3.60	1 / 25	25.39	19.64	0.092	34.77	-15.13
		711.0	-3.60	1 / 25	25.31	19.56	0.090	34.77	-15.21
	16-QAM	711.0	-3.60	1 / 25	24.42	18.67	0.074	34.77	-16.10
	64-QAM	711.0	-3.60	1 / 50	23.41	17.66	0.058	34.77	-17.11
	256-QAM	704.0	-3.60	1 / 25	20.46	14.71	0.030	34.77	-20.06
15 MHz	$\pi/2$ BPSK	706.5	-3.60	1 / 36	25.40	19.65	0.092	34.77	-15.12
		707.5	-3.60	1 / 77	25.34	19.59	0.091	34.77	-15.18
		708.5	-3.60	1 / 36	25.28	19.53	0.090	34.77	-15.24
	QPSK	706.5	-3.60	1 / 1	25.11	19.36	0.086	34.77	-15.41
		707.5	-3.60	1 / 1	25.34	19.59	0.091	34.77	-15.18
		708.5	-3.60	1 / 1	25.32	19.57	0.091	34.77	-15.20
	16-QAM	706.5	-3.60	1 / 77	24.39	18.64	0.073	34.77	-16.13
	64-QAM	706.5	-3.60	1 / 77	23.40	17.65	0.058	34.77	-17.12
	256-QAM	707.5	-3.60	1 / 77	20.49	14.74	0.030	34.77	-20.03

Table 7-21. Antenna 4 ERP Data (NR Band n12)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 290 of 351

V2.2 09/07/2023

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WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	24.12	-1.80	22.32	0.171	30.00	-7.68
1732.60	WCDMA1700	23.96	-1.80	22.16	0.164	30.00	-7.84
1752.60	WCDMA1700	24.01	-1.80	22.21	0.166	30.00	-7.79

Table 7-22. Antenna 4 EIRP Data (WCDMA AWS)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 291 of 351

V2.2 09/07/2023

7.6.4 Antenna 2 – EIRP

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]
1.4 MHz	QPSK	1710.7	-1.90	1 / 5	24.56	22.66	0.185	30.00	-7.34
		1745.0	-1.90	1 / 0	24.69	22.79	0.190	30.00	-7.21
		1779.3	-1.90	1 / 0	24.69	22.79	0.190	30.00	-7.21
	16-QAM	1710.7	-1.90	1 / 3	23.66	21.76	0.150	30.00	-8.24
	64-QAM	1745.0	-1.90	1 / 0	22.58	20.68	0.117	30.00	-9.32
	256-QAM	1779.3	-1.90	1 / 5	19.82	17.92	0.062	30.00	-12.08
3 MHz	QPSK	1711.5	-1.90	1 / 7	24.70	22.80	0.191	30.00	-7.20
		1745.0	-1.90	1 / 7	24.57	22.67	0.185	30.00	-7.33
		1778.5	-1.90	1 / 7	24.43	22.53	0.179	30.00	-7.47
	16-QAM	1711.5	-1.90	1 / 14	23.61	21.71	0.148	30.00	-8.29
	64-QAM	1778.5	-1.90	1 / 7	22.68	20.78	0.120	30.00	-9.22
	256-QAM	1745.0	-1.90	1 / 0	19.67	17.77	0.060	30.00	-12.23
5 MHz	QPSK	1712.5	-1.90	1 / 12	24.68	22.78	0.190	30.00	-7.22
		1745.0	-1.90	1 / 0	24.70	22.80	0.191	30.00	-7.20
		1777.5	-1.90	1 / 0	24.70	22.80	0.191	30.00	-7.20
	16-QAM	1745.0	-1.90	1 / 0	23.68	21.78	0.151	30.00	-8.22
	64-QAM	1777.5	-1.90	1 / 12	22.60	20.70	0.117	30.00	-9.30
	256-QAM	1745.0	-1.90	1 / 0	19.82	17.92	0.062	30.00	-12.08
10 MHz	QPSK	1715.0	-1.90	1 / 49	24.60	22.70	0.186	30.00	-7.30
		1745.0	-1.90	1 / 49	24.58	22.68	0.185	30.00	-7.32
		1775.0	-1.90	1 / 25	24.66	22.76	0.189	30.00	-7.24
	16-QAM	1745.0	-1.90	1 / 49	23.66	21.76	0.150	30.00	-8.24
	64-QAM	1715.0	-1.90	1 / 0	22.70	20.80	0.120	30.00	-9.20
	256-QAM	1715.0	-1.90	1 / 25	19.80	17.90	0.062	30.00	-12.10
15 MHz	QPSK	1717.5	-1.90	1 / 0	24.67	22.77	0.189	30.00	-7.23
		1745.0	-1.90	1 / 37	24.43	22.53	0.179	30.00	-7.47
		1772.5	-1.90	1 / 74	24.70	22.80	0.191	30.00	-7.20
	16-QAM	1717.5	-1.90	1 / 0	23.76	21.86	0.153	30.00	-8.14
	64-QAM	1772.5	-1.90	1 / 37	22.75	20.85	0.122	30.00	-9.15
	256-QAM	1772.5	-1.90	1 / 74	19.79	17.89	0.062	30.00	-12.11
20 MHz	QPSK	1720.0	-1.90	1 / 99	24.63	22.73	0.187	30.00	-7.27
		1745.0	-1.90	1 / 50	24.56	22.66	0.185	30.00	-7.34
		1770.0	-1.90	1 / 0	24.51	22.61	0.182	30.00	-7.39
	16-QAM	1745.0	-1.90	1 / 99	23.57	21.67	0.147	30.00	-8.33
	64-QAM	1720.0	-1.90	1 / 0	22.70	20.80	0.120	30.00	-9.20
	256-QAM	1770.0	-1.90	1 / 0	19.69	17.79	0.060	30.00	-12.21

Table 7-23. Antenna 2 EIRP Data (LTE Band 66)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 292 of 351

V2.2 09/07/2023

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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]
1.4 MHz	QPSK	1710.7	-1.90	1 / 3	24.67	22.77	0.189	30.00	-7.23
		1732.5	-1.90	1 / 5	24.54	22.64	0.184	30.00	-7.36
		1754.3	-1.90	1 / 0	24.70	22.80	0.191	30.00	-7.20
	16-QAM	1732.5	-1.90	1 / 3	23.67	21.77	0.150	30.00	-8.23
	64-QAM	1710.7	-1.90	1 / 0	22.69	20.79	0.120	30.00	-9.21
	256-QAM	1732.5	-1.90	1 / 3	19.77	17.87	0.061	30.00	-12.13
3 MHz	QPSK	1711.5	-1.90	1 / 0	24.41	22.51	0.178	30.00	-7.49
		1732.5	-1.90	1 / 7	24.63	22.73	0.187	30.00	-7.27
		1753.5	-1.90	1 / 7	24.59	22.69	0.186	30.00	-7.31
	16-QAM	1711.5	-1.90	1 / 14	23.69	21.79	0.151	30.00	-8.21
	64-QAM	1732.5	-1.90	1 / 14	22.69	20.79	0.120	30.00	-9.21
	256-QAM	1753.5	-1.90	1 / 7	19.81	17.91	0.062	30.00	-12.09
5 MHz	QPSK	1712.5	-1.90	1 / 12	24.37	22.47	0.177	30.00	-7.53
		1732.5	-1.90	1 / 0	24.69	22.79	0.190	30.00	-7.21
		1752.5	-1.90	1 / 12	24.47	22.57	0.181	30.00	-7.43
	16-QAM	1732.5	-1.90	1 / 12	23.67	21.77	0.150	30.00	-8.23
	64-QAM	1752.5	-1.90	1 / 0	22.68	20.78	0.120	30.00	-9.22
	256-QAM	1712.5	-1.90	1 / 12	19.69	17.79	0.060	30.00	-12.21
10 MHz	QPSK	1715.0	-1.90	1 / 49	24.42	22.52	0.179	30.00	-7.48
		1732.5	-1.90	1 / 25	24.66	22.76	0.189	30.00	-7.24
		1750.0	-1.90	1 / 49	24.59	22.69	0.186	30.00	-7.31
	16-QAM	1715.0	-1.90	1 / 25	23.68	21.78	0.151	30.00	-8.22
	64-QAM	1750.0	-1.90	1 / 25	22.71	20.81	0.121	30.00	-9.19
	256-QAM	1750.0	-1.90	1 / 0	19.79	17.89	0.062	30.00	-12.11
15 MHz	QPSK	1717.5	-1.90	1 / 0	24.65	22.75	0.188	30.00	-7.25
		1732.5	-1.90	1 / 0	24.58	22.68	0.185	30.00	-7.32
		1747.5	-1.90	1 / 0	24.53	22.63	0.183	30.00	-7.37
	16-QAM	1732.5	-1.90	1 / 0	23.67	21.77	0.150	30.00	-8.23
	64-QAM	1732.5	-1.90	1 / 37	22.71	20.81	0.121	30.00	-9.19
	256-QAM	1717.5	-1.90	1 / 0	19.77	17.87	0.061	30.00	-12.13
20 MHz	QPSK	1720.0	-1.90	1 / 0	24.65	22.75	0.188	30.00	-7.25
		1732.5	-1.90	1 / 99	24.67	22.77	0.189	30.00	-7.23
		1745.0	-1.90	1 / 99	24.69	22.79	0.190	30.00	-7.21
	16-QAM	1732.5	-1.90	1 / 0	23.73	21.83	0.152	30.00	-8.17
	64-QAM	1732.5	-1.90	1 / 50	22.60	20.70	0.117	30.00	-9.30
	256-QAM	1745.0	-1.90	1 / 50	19.83	17.93	0.062	30.00	-12.07

Table 7-24. Antenna 2 EIRP Data (LTE Band 4)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 293 of 351

V2.2 09/07/2023

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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]
5 MHz	QPSK	665.5	-4.70	1 / 0	24.60	17.75	0.060	34.77	-17.02
		680.5	-4.70	1 / 24	24.70	17.85	0.061	34.77	-16.92
		695.5	-4.70	1 / 12	24.68	17.83	0.061	34.77	-16.94
	16-QAM	665.5	-4.70	1 / 0	23.65	16.80	0.048	34.77	-17.97
	64-QAM	665.5	-4.70	1 / 12	22.66	15.81	0.038	34.77	-18.96
10 MHz	QPSK	665.5	-4.70	1 / 24	19.75	12.90	0.019	34.77	-21.87
		668.0	-4.70	1 / 49	24.70	17.85	0.061	34.77	-16.92
		680.5	-4.70	1 / 25	24.51	17.66	0.058	34.77	-17.11
	16-QAM	693.0	-4.70	1 / 25	24.61	17.76	0.060	34.77	-17.01
		693.0	-4.70	1 / 25	23.69	16.84	0.048	34.77	-17.93
15 MHz	QPSK	668.0	-4.70	1 / 0	22.72	15.87	0.039	34.77	-18.90
		693.0	-4.70	1 / 25	19.79	12.94	0.020	34.77	-21.83
		670.5	-4.70	1 / 37	24.70	17.85	0.061	34.77	-16.92
	16-QAM	680.5	-4.70	1 / 74	24.50	17.65	0.058	34.77	-17.12
		690.5	-4.70	1 / 74	24.69	17.84	0.061	34.77	-16.93
20 MHz	QPSK	680.5	-4.70	1 / 0	23.70	16.85	0.048	34.77	-17.92
		680.5	-4.70	1 / 0	22.68	15.83	0.038	34.77	-18.94
		670.5	-4.70	1 / 0	19.79	12.94	0.020	34.77	-21.83
	16-QAM	673.0	-4.70	1 / 0	24.49	17.64	0.058	34.77	-17.13
		680.5	-4.70	1 / 50	24.69	17.84	0.061	34.77	-16.93
20 MHz	QPSK	688.0	-4.70	1 / 0	24.52	17.67	0.058	34.77	-17.10
		680.5	-4.70	1 / 99	23.70	16.85	0.048	34.77	-17.92
		688.0	-4.70	1 / 0	22.64	15.79	0.038	34.77	-18.98
	16-QAM	688.0	-4.70	1 / 0	19.78	12.93	0.020	34.77	-21.84
		688.0	-4.70	1 / 0	19.78	12.93	0.020	34.77	-21.84

Table 7-25. Antenna 2 ERP Data (LTE Band 71)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 294 of 351

V2.2 09/07/2023

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]
1.4 MHz	QPSK	699.7	-4.20	1 / 0	23.53	17.18	0.052	34.77	-17.59
		707.5	-4.20	1 / 5	23.49	17.14	0.052	34.77	-17.63
		715.3	-4.20	1 / 5	23.52	17.17	0.052	34.77	-17.60
	16-QAM	707.5	-4.20	1 / 5	22.61	16.26	0.042	34.77	-18.51
	64-QAM	699.7	-4.20	1 / 5	21.58	15.23	0.033	34.77	-19.54
	256-QAM	707.5	-4.20	1 / 0	18.60	12.25	0.017	34.77	-22.52
3 MHz	QPSK	700.5	-4.20	1 / 7	23.57	17.22	0.053	34.77	-17.55
		707.5	-4.20	1 / 14	23.52	17.17	0.052	34.77	-17.60
		714.5	-4.20	1 / 7	23.49	17.14	0.052	34.77	-17.63
	16-QAM	707.5	-4.20	1 / 7	22.60	16.25	0.042	34.77	-18.52
	64-QAM	700.5	-4.20	1 / 14	21.60	15.25	0.033	34.77	-19.52
	256-QAM	700.5	-4.20	1 / 7	18.62	12.27	0.017	34.77	-22.50
5 MHz	QPSK	701.5	-4.20	1 / 0	24.62	18.27	0.067	34.77	-16.50
		707.5	-4.20	1 / 0	24.64	18.29	0.067	34.77	-16.48
		713.5	-4.20	1 / 0	24.70	18.35	0.068	34.77	-16.42
	16-QAM	713.5	-4.20	1 / 0	23.75	17.40	0.055	34.77	-17.37
	64-QAM	713.5	-4.20	1 / 24	22.87	16.52	0.045	34.77	-18.25
	256-QAM	713.5	-4.20	1 / 0	19.91	13.56	0.023	34.77	-21.21
10 MHz	QPSK	704.0	-4.20	1 / 0	24.54	18.19	0.066	34.77	-16.58
		707.5	-4.20	1 / 0	24.55	18.20	0.066	34.77	-16.57
		711.0	-4.20	1 / 0	24.62	18.27	0.067	34.77	-16.50
	16-QAM	704.0	-4.20	1 / 25	23.95	17.60	0.058	34.77	-17.17
	64-QAM	707.5	-4.20	1 / 49	22.82	16.47	0.044	34.77	-18.30
	256-QAM	707.5	-4.20	1 / 0	19.83	13.48	0.022	34.77	-21.29

Table 7-26. Antenna 2 ERP Data (LTE Band 12)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 295 of 351

V2.2 09/07/2023

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]
5 MHz	QPSK	706.5	-4.20	1 / 0	24.70	18.35	0.068	34.77	-16.42
		710.0	-4.20	1 / 0	24.64	18.29	0.067	34.77	-16.48
		713.5	-4.20	1 / 0	24.49	18.14	0.065	34.77	-16.63
	16-QAM	706.5	-4.20	1 / 12	23.11	16.76	0.047	34.77	-18.01
	64-QAM	706.5	-4.20	1 / 0	21.96	15.61	0.036	34.77	-19.16
	256-QAM	706.5	-4.20	1 / 0	19.25	12.90	0.019	34.77	-21.87
10 MHz	QPSK	709.0	-4.20	1 / 0	24.42	18.07	0.064	34.77	-16.70
		710.0	-4.20	1 / 0	24.27	17.92	0.062	34.77	-16.85
		711.0	-4.20	1 / 25	24.53	18.18	0.066	34.77	-16.59
	16-QAM	709.0	-4.20	1 / 25	23.16	16.81	0.048	34.77	-17.96
	64-QAM	711.0	-4.20	1 / 25	22.19	15.84	0.038	34.77	-18.93
	256-QAM	709.0	-4.20	1 / 25	19.13	12.78	0.019	34.77	-21.99

Table 7-27. Antenna 2 ERP Data (LTE Band 17)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 296 of 351

V2.2 09/07/2023

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]
5 MHz	QPSK	779.5	-3.30	1 / 0	24.69	19.24	0.084	34.77	-15.53
		782.0	-3.30	1 / 0	24.68	19.23	0.084	34.77	-15.54
		784.5	-3.30	1 / 0	24.70	19.25	0.084	34.77	-15.52
	16-QAM	779.5	-3.30	1 / 0	24.09	18.64	0.073	34.77	-16.13
	64-QAM	782.0	-3.30	1 / 0	22.89	17.44	0.055	34.77	-17.33
	256-QAM	782.0	-3.30	1 / 0	19.79	14.34	0.027	34.77	-20.43
10 MHz	QPSK	782.0	-3.30	1 / 0	24.66	19.21	0.083	34.77	-15.56
	16-QAM	782.0	-3.30	1 / 0	23.90	18.45	0.070	34.77	-16.32
	64-QAM	782.0	-3.30	1 / 0	22.81	17.36	0.054	34.77	-17.41
	256-QAM	782.0	-3.30	1 / 0	19.72	14.27	0.027	34.77	-20.50

Table 7-28. Antenna 2 ERP Data (LTE Band 13)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 297 of 351

V2.2 09/07/2023

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]
5 MHz	π/2 BPSK	1712.5	-1.90	1 / 23	24.70	22.80	0.191	30.00	-7.20
		1745.0	-1.90	1 / 1	24.55	22.65	0.184	30.00	-7.35
		1777.5	-1.90	1 / 12	24.65	22.75	0.188	30.00	-7.25
	QPSK	1712.5	-1.90	1 / 1	24.60	22.70	0.186	30.00	-7.30
		1745.0	-1.90	1 / 12	24.63	22.73	0.187	30.00	-7.27
		1777.5	-1.90	1 / 12	24.58	22.68	0.185	30.00	-7.32
	16-QAM	1712.5	-1.90	1 / 12	23.59	21.69	0.148	30.00	-8.31
10 MHz	π/2 BPSK	1712.5	-1.90	1 / 23	22.67	20.77	0.119	30.00	-9.23
		1777.5	-1.90	1 / 12	19.81	17.91	0.062	30.00	-12.09
		1715.0	-1.90	1 / 50	24.58	22.68	0.185	30.00	-7.32
	QPSK	1745.0	-1.90	1 / 50	24.49	22.59	0.182	30.00	-7.41
		1775.0	-1.90	1 / 25	24.40	22.50	0.178	30.00	-7.50
		1715.0	-1.90	1 / 1	24.70	22.80	0.191	30.00	-7.20
	16-QAM	1745.0	-1.90	1 / 1	24.53	22.63	0.183	30.00	-7.37
15 MHz	π/2 BPSK	1775.0	-1.90	1 / 1	24.62	22.72	0.187	30.00	-7.28
		1715.0	-1.90	1 / 1	23.55	21.65	0.146	30.00	-8.35
		1775.0	-1.90	1 / 25	22.73	20.83	0.121	30.00	-9.17
	QPSK	1715.0	-1.90	1 / 50	19.75	17.85	0.061	30.00	-12.15
		1717.5	-1.90	1 / 1	24.67	22.77	0.189	30.00	-7.23
		1745.0	-1.90	1 / 36	24.62	22.72	0.187	30.00	-7.28
	16-QAM	1772.5	-1.90	1 / 1	24.62	22.72	0.187	30.00	-7.28
20 MHz	π/2 BPSK	1717.5	-1.90	1 / 36	24.70	22.80	0.191	30.00	-7.20
		1745.0	-1.90	1 / 77	24.66	22.76	0.189	30.00	-7.24
		1772.5	-1.90	1 / 1	24.37	22.47	0.177	30.00	-7.53
	QPSK	1772.5	-1.90	1 / 36	23.71	21.81	0.152	30.00	-8.19
		1717.5	-1.90	1 / 1	22.65	20.75	0.119	30.00	-9.25
		1745.0	-1.90	1 / 1	19.77	17.87	0.061	30.00	-12.13
	256-QAM	1720.0	-1.90	1 / 104	24.69	22.79	0.190	30.00	-7.21
25 MHz	π/2 BPSK	1720.0	-1.90	1 / 104	24.70	22.80	0.191	30.00	-7.20
		1745.0	-1.90	1 / 104	24.64	22.74	0.188	30.00	-7.26
		1720.0	-1.90	1 / 50	24.54	22.64	0.184	30.00	-7.36
	QPSK	1745.0	-1.90	1 / 50	24.64	22.74	0.188	30.00	-7.26
		1770.0	-1.90	1 / 104	24.66	22.76	0.189	30.00	-7.24
		1720.0	-1.90	1 / 104	23.63	21.73	0.149	30.00	-8.27
	16-QAM	1770.0	-1.90	1 / 104	22.59	20.69	0.117	30.00	-9.31
30 MHz	π/2 BPSK	1720.0	-1.90	1 / 104	19.79	17.89	0.062	30.00	-12.11
		1722.5	-1.90	1 / 1	24.70	22.80	0.191	30.00	-7.20
		1745.0	-1.90	1 / 1	24.59	22.69	0.186	30.00	-7.31
	QPSK	1767.5	-1.90	1 / 1	24.66	22.76	0.189	30.00	-7.24
		1722.5	-1.90	1 / 131	24.63	22.73	0.187	30.00	-7.27
		1745.0	-1.90	1 / 131	24.59	22.69	0.186	30.00	-7.31
	16-QAM	1767.5	-1.90	1 / 131	24.58	22.68	0.185	30.00	-7.32
35 MHz	π/2 BPSK	1722.5	-1.90	1 / 1	23.83	21.93	0.156	30.00	-8.07
		1745.0	-1.90	1 / 64	22.70	20.80	0.120	30.00	-9.20
		1767.5	-1.90	1 / 64	19.86	17.96	0.063	30.00	-12.04
	QPSK	1725.0	-1.90	1 / 1	24.66	22.76	0.189	30.00	-7.24
		1745.0	-1.90	1 / 1	24.70	22.80	0.191	30.00	-7.20
		1765.0	-1.90	1 / 1	24.67	22.77	0.189	30.00	-7.23
	16-QAM	1725.0	-1.90	1 / 158	24.65	22.75	0.188	30.00	-7.25
40 MHz	π/2 BPSK	1745.0	-1.90	1 / 80	24.64	22.74	0.188	30.00	-7.26
		1765.0	-1.90	1 / 80	24.69	22.79	0.190	30.00	-7.21
		1725.0	-1.90	1 / 1	23.68	21.78	0.151	30.00	-8.22
	QPSK	1745.0	-1.90	1 / 158	22.65	20.75	0.119	30.00	-9.25
		1765.0	-1.90	1 / 1	19.79	17.89	0.062	30.00	-12.11
		1727.5	-1.90	1 / 186	24.54	22.64	0.184	30.00	-7.36
	16-QAM	1745.0	-1.90	1 / 1	24.54	22.64	0.184	30.00	-7.36
45 MHz	π/2 BPSK	1762.5	-1.90	1 / 1	24.70	22.80	0.191	30.00	-7.20
		1727.5	-1.90	1 / 1	24.62	22.72	0.187	30.00	-7.28
		1745.0	-1.90	1 / 186	24.61	22.71	0.187	30.00	-7.29
	QPSK	1762.5	-1.90	1 / 1	24.32	22.42	0.175	30.00	-7.58
		1762.5	-1.90	1 / 186	23.70	21.80	0.151	30.00	-8.20
		1762.5	-1.90	1 / 90	22.65	20.75	0.119	30.00	-9.25
	256-QAM	1762.5	-1.90	1 / 1	19.75	17.85	0.061	30.00	-12.15
50 MHz	π/2 BPSK	1730.0	-1.90	1 / 108	24.67	22.77	0.189	30.00	-7.23
		1745.0	-1.90	1 / 214	24.69	22.79	0.190	30.00	-7.21
		1760.0	-1.90	1 / 108	24.52	22.62	0.183	30.00	-7.38
	QPSK	1730.0	-1.90	1 / 1	24.68	22.78	0.190	30.00	-7.22
		1745.0	-1.90	1 / 108	24.66	22.76	0.189	30.00	-7.24
		1760.0	-1.90	1 / 1	24.70	22.80	0.191	30.00	-7.20
	16-QAM	1745.0	-1.90	1 / 1	23.62	21.72	0.149	30.00	-8.28
55 MHz	π/2 BPSK	1730.0	-1.90	1 / 214	22.69	20.79	0.120	30.00	-9.21
		1745.0	-1.90	1 / 1	19.79	17.89	0.062	30.00	-12.11

Table 7-29. Antenna 2 EIRP Data (NR Band n66)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 298 of 351

V2.2 09/07/2023

NR Band n70

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1697.5	-5.50	1 / 1	24.57	19.07	0.081	30.00	-10.93
		1702.5	-5.50	1 / 23	24.60	19.10	0.081	30.00	-10.90
		1707.5	-5.50	1 / 12	24.70	19.20	0.083	30.00	-10.80
	QPSK	1697.5	-5.50	1 / 23	24.55	19.05	0.080	30.00	-10.95
		1702.5	-5.50	1 / 1	24.65	19.15	0.082	30.00	-10.85
		1707.5	-5.50	1 / 1	24.66	19.16	0.082	30.00	-10.84
	16-QAM	1702.5	-5.50	1 / 1	23.71	18.21	0.066	30.00	-11.79
	64-QAM	1702.5	-5.50	1 / 1	22.73	17.23	0.053	30.00	-12.77
	256-QAM	1697.5	-5.50	1 / 23	19.84	14.34	0.027	30.00	-15.66
10 MHz	$\pi/2$ BPSK	1697.5	-5.50	1 / 50	24.67	19.17	0.083	30.00	-10.83
		1702.5	-5.50	1 / 1	24.55	19.05	0.080	30.00	-10.95
		1707.5	-5.50	1 / 50	24.41	18.91	0.078	30.00	-11.09
	QPSK	1697.5	-5.50	1 / 25	24.70	19.20	0.083	30.00	-10.80
		1702.5	-5.50	1 / 50	24.69	19.19	0.083	30.00	-10.81
		1707.5	-5.50	1 / 1	24.64	19.14	0.082	30.00	-10.86
	16-QAM	1702.5	-5.50	1 / 50	23.66	18.16	0.065	30.00	-11.84
	64-QAM	1697.5	-5.50	1 / 1	22.60	17.10	0.051	30.00	-12.90
15 MHz	256-QAM	1702.5	-5.50	1 / 1	19.80	14.30	0.027	30.00	-15.70
	$\pi/2$ BPSK	1702.5	-5.50	1 / 36	24.66	19.16	0.082	30.00	-10.84
	QPSK	1702.5	-5.50	1 / 1	24.36	18.86	0.077	30.00	-11.14
	16-QAM	1702.5	-5.50	1 / 1	23.69	18.19	0.066	30.00	-11.81
	64-QAM	1702.5	-5.50	1 / 1	22.55	17.05	0.051	30.00	-12.95
	256-QAM	1702.5	-5.50	1 / 36	19.78	14.28	0.027	30.00	-15.72

Table 7-30. Antenna 2 EIRP Data (NR Band n70)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 299 of 351

V2.2 09/07/2023

NR Band n71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	665.5	-4.70	1 / 23	24.51	17.66	0.058	34.77	-17.11
		680.5	-4.70	1 / 23	24.64	17.79	0.060	34.77	-16.98
		695.5	-4.70	1 / 1	24.33	17.48	0.056	34.77	-17.29
	QPSK	665.5	-4.70	1 / 23	24.70	17.85	0.061	34.77	-16.92
		680.5	-4.70	1 / 1	24.56	17.71	0.059	34.77	-17.06
		695.5	-4.70	1 / 1	24.52	17.67	0.058	34.77	-17.10
	16-QAM	695.5	-4.70	1 / 1	23.64	16.79	0.048	34.77	-17.98
	64-QAM	680.5	-4.70	1 / 12	22.64	15.79	0.038	34.77	-18.98
	256-QAM	695.5	-4.70	1 / 1	19.79	12.94	0.020	34.77	-21.83
10 MHz	$\pi/2$ BPSK	668.0	-4.70	1 / 50	24.70	17.85	0.061	34.77	-16.92
		680.5	-4.70	1 / 25	24.35	17.50	0.056	34.77	-17.27
		693.0	-4.70	1 / 25	24.62	17.77	0.060	34.77	-17.00
	QPSK	668.0	-4.70	1 / 50	24.56	17.71	0.059	34.77	-17.06
		680.5	-4.70	1 / 50	24.68	17.83	0.061	34.77	-16.94
		693.0	-4.70	1 / 1	24.50	17.65	0.058	34.77	-17.12
	16-QAM	668.0	-4.70	1 / 1	23.62	16.77	0.048	34.77	-18.00
	64-QAM	668.0	-4.70	1 / 1	22.69	15.84	0.038	34.77	-18.93
	256-QAM	680.5	-4.70	1 / 25	19.80	12.95	0.020	34.77	-21.82
15 MHz	$\pi/2$ BPSK	670.5	-4.70	1 / 77	24.62	17.77	0.060	34.77	-17.00
		680.5	-4.70	1 / 77	24.65	17.80	0.060	34.77	-16.97
		690.5	-4.70	1 / 77	24.70	17.85	0.061	34.77	-16.92
	QPSK	670.5	-4.70	1 / 1	24.37	17.52	0.056	34.77	-17.25
		680.5	-4.70	1 / 36	24.42	17.57	0.057	34.77	-17.20
		690.5	-4.70	1 / 1	24.54	17.69	0.059	34.77	-17.08
	16-QAM	680.5	-4.70	1 / 77	23.60	16.75	0.047	34.77	-18.02
	64-QAM	670.5	-4.70	1 / 36	22.69	15.84	0.038	34.77	-18.93
	256-QAM	670.5	-4.70	1 / 36	19.70	12.85	0.019	34.77	-21.92
20 MHz	$\pi/2$ BPSK	673.0	-4.70	1 / 1	24.59	17.74	0.059	34.77	-17.03
		680.5	-4.70	1 / 1	24.37	17.52	0.056	34.77	-17.25
		688.0	-4.70	1 / 104	24.53	17.68	0.059	34.77	-17.09
	QPSK	673.0	-4.70	1 / 1	24.70	17.85	0.061	34.77	-16.92
		680.5	-4.70	1 / 104	24.59	17.74	0.059	34.77	-17.03
		688.0	-4.70	1 / 104	24.61	17.76	0.060	34.77	-17.01
	16-QAM	680.5	-4.70	1 / 50	23.69	16.84	0.048	34.77	-17.93
	64-QAM	688.0	-4.70	1 / 1	22.69	15.84	0.038	34.77	-18.93
	256-QAM	680.5	-4.70	1 / 50	19.73	12.88	0.019	34.77	-21.89

Table 7-31. Antenna 2 ERP Data (NR Band n71)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 300 of 351

V2.2 09/07/2023

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NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	701.5	-4.20	1 / 23	24.68	18.33	0.068	34.77	-16.44
		707.5	-4.20	1 / 12	24.65	18.30	0.068	34.77	-16.47
		713.5	-4.20	1 / 12	24.55	18.20	0.066	34.77	-16.57
	QPSK	701.5	-4.20	1 / 12	24.38	18.03	0.064	34.77	-16.74
		707.5	-4.20	1 / 23	24.70	18.35	0.068	34.77	-16.42
		713.5	-4.20	1 / 1	24.70	18.35	0.068	34.77	-16.42
	16-QAM	707.5	-4.20	1 / 23	23.74	17.39	0.055	34.77	-17.38
	64-QAM	713.5	-4.20	1 / 12	22.70	16.35	0.043	34.77	-18.42
	256-QAM	713.5	-4.20	1 / 12	19.78	13.43	0.022	34.77	-21.34
10 MHz	$\pi/2$ BPSK	704.0	-4.20	1 / 25	24.68	18.33	0.068	34.77	-16.44
		707.5	-4.20	1 / 25	24.70	18.35	0.068	34.77	-16.42
		711.0	-4.20	1 / 1	24.57	18.22	0.066	34.77	-16.55
	QPSK	704.0	-4.20	1 / 50	24.58	18.23	0.067	34.77	-16.54
		707.5	-4.20	1 / 25	24.70	18.35	0.068	34.77	-16.42
		711.0	-4.20	1 / 1	24.63	18.28	0.067	34.77	-16.49
	16-QAM	711.0	-4.20	1 / 50	23.67	17.32	0.054	34.77	-17.45
	64-QAM	707.5	-4.20	1 / 50	22.66	16.31	0.043	34.77	-18.46
	256-QAM	711.0	-4.20	1 / 1	19.82	13.47	0.022	34.77	-21.30
15 MHz	$\pi/2$ BPSK	706.5	-4.20	1 / 77	24.50	18.15	0.065	34.77	-16.62
		707.5	-4.20	1 / 36	24.34	17.99	0.063	34.77	-16.78
		708.5	-4.20	1 / 36	24.57	18.22	0.066	34.77	-16.55
	QPSK	706.5	-4.20	1 / 1	24.70	18.35	0.068	34.77	-16.42
		707.5	-4.20	1 / 77	24.48	18.13	0.065	34.77	-16.64
		708.5	-4.20	1 / 1	24.67	18.32	0.068	34.77	-16.45
	16-QAM	706.5	-4.20	1 / 1	23.61	17.26	0.053	34.77	-17.51
	64-QAM	706.5	-4.20	1 / 77	22.68	16.33	0.043	34.77	-18.44
	256-QAM	707.5	-4.20	1 / 1	19.79	13.44	0.022	34.77	-21.33

Table 7-32. Antenna 2 ERP Data (NR Band n12)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 301 of 351

V2.2 09/07/2023

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WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	23.16	-1.90	21.26	0.134	30.00	-8.74
1732.60	WCDMA1700	23.06	-1.90	21.16	0.131	30.00	-8.84
1752.60	WCDMA1700	23.12	-1.90	21.22	0.132	30.00	-8.78

Table 7-33. Antenna 2 EIRP Data (WCDMA AWS)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 302 of 351

V2.2 09/07/2023

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 $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: BCGA2995		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 303 of 351

V2.2 09/07/2023

Test Setup

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

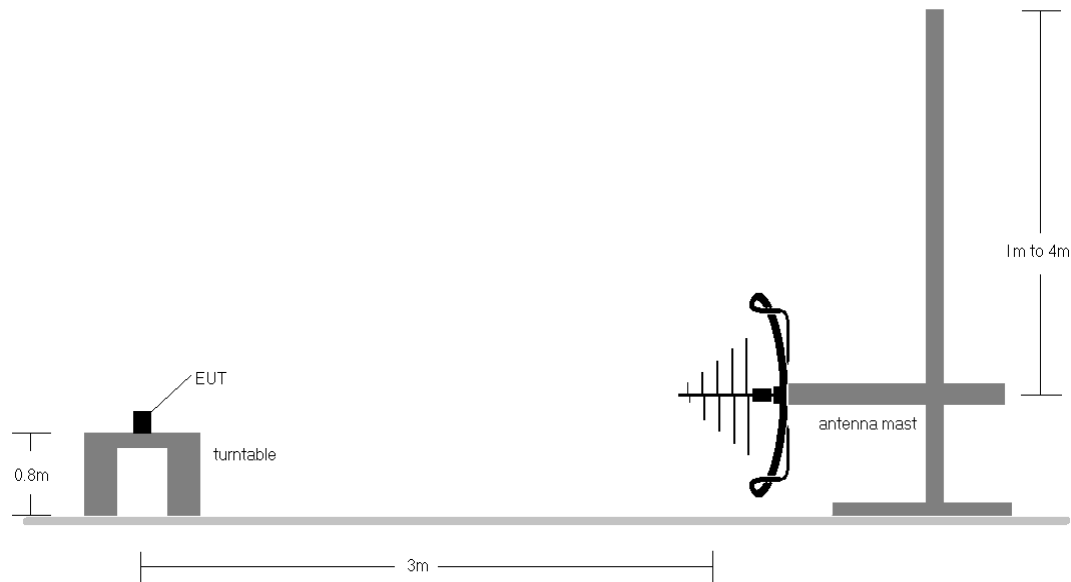


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

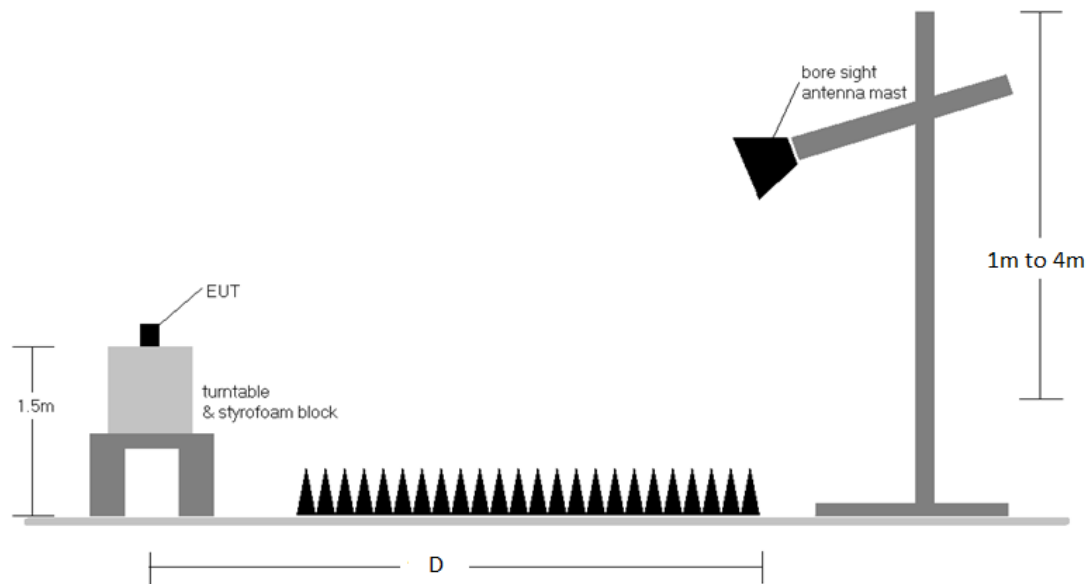


Figure 7-12. Test Instrument & Measurement Setup > 1GHz

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 304 of 351

V2.2 09/07/2023

Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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 spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. 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.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
8. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.
9. 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".

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 305 of 351

V2.2 09/07/2023

7.7.1 Antenna 3b – 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	V	-	-	-75.54	-0.12	31.34	-63.92	-13.00	-50.92
5160.0	V	-	-	-77.16	3.07	32.91	-62.35	-13.00	-49.35
6880.0	V	-	-	-77.54	5.22	34.68	-60.57	-13.00	-47.57

Table 7-34. Antenna 3b 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	-	-	-75.54	-0.08	31.38	-63.88	-13.00	-50.88
5235.0	V	-	-	-77.12	3.16	33.04	-62.22	-13.00	-49.22
6980.0	V	-	-	-77.69	5.43	34.74	-60.52	-13.00	-47.52

Table 7-35. Antenna 3b 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]
3540.0	V	-	-	-75.88	0.22	31.34	-63.92	-13.00	-50.92
5310.0	V	316	147	-73.29	3.39	37.11	-58.15	-13.00	-45.15
7080.0	V	-	-	-78.15	5.55	34.40	-60.86	-13.00	-47.86
8850.0	V	-	-	-77.46	6.10	35.64	-59.62	-13.00	-46.62
10620.0	V	-	-	-78.30	8.29	36.99	-58.27	-13.00	-45.27

Table 7-36. Antenna 3b Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 306 of 351

V2.2 09/07/2023

NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

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]
3460.0	H	-	-	-75.43	-0.08	31.49	-63.77	-13.00	-50.77
5190.0	H	-	-	-76.77	3.17	33.40	-61.86	-13.00	-48.86
6920.0	H	-	-	-77.67	5.25	34.58	-60.68	-13.00	-47.68

Table 7-37. Antenna 3b Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108

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	-	-	-75.57	-0.08	31.35	-63.91	-13.00	-50.91
5235.0	H	-	-	-76.94	3.36	33.42	-61.84	-13.00	-48.84
6980.0	H	-	-	-77.63	5.43	34.80	-60.45	-13.00	-47.45

Table 7-38. Antenna 3b Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

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]
3520.0	H	-	-	-75.54	0.22	31.68	-63.58	-13.00	-50.58
5280.0	H	-	-	-77.29	3.32	33.04	-62.22	-13.00	-49.22
7040.0	H	-	-	-77.97	5.62	34.65	-60.61	-13.00	-47.61

Table 7-39. Antenna 3b Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 307 of 351

V2.2 09/07/2023

NR Band n70

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 37

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]
3405.0	H	-	-	-75.30	-0.12	31.58	-63.68	-13.00	-50.68
5107.5	H	-	-	-77.32	2.94	32.62	-62.64	-13.00	-49.64
6810.0	H	-	-	-77.72	5.23	34.51	-60.75	-13.00	-47.75

Table 7-40. Antenna 3b Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 37

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]
3405.0	H	-	-	-75.72	0.16	31.45	-63.81	-13.00	-50.81
5107.5	H	-	-	-77.25	2.94	32.69	-62.57	-13.00	-49.57
6810.0	H	-	-	-77.44	5.28	34.84	-60.42	-13.00	-47.42

Table 7-41. Antenna 3b Radiated Spurious Data (NR Band n70 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 37

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]
3405.0	H	-	-	-75.84	0.16	31.32	-63.94	-13.00	-50.94
5107.5	H	-	-	-77.38	3.07	32.70	-62.56	-13.00	-49.56
6810.0	H	-	-	-77.88	5.37	34.50	-60.76	-13.00	-47.76

Table 7-42. Antenna 3b Radiated Spurious Data (NR Band n70 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 308 of 351

V2.2 09/07/2023

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	-	-	-79.18	4.29	32.11	-63.15	-13.00	-50.15
5137.2	H	-	-	-80.79	7.59	33.80	-61.46	-13.00	-48.46
6849.6	H	-	-	-81.44	10.57	36.13	-59.13	-13.00	-46.13

7-43. Antenna 3b 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	-	-	-79.03	4.47	32.44	-62.82	-13.00	-49.82
5197.8	H	-	-	-80.58	7.76	34.18	-61.08	-13.00	-48.08
6930.4	H	-	-	-81.41	10.92	36.51	-58.74	-13.00	-45.74

Table 7-44. Antenna 3b 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	-	-	-78.66	4.34	32.68	-62.57	-13.00	-49.57
5257.8	H	-	-	-80.80	7.82	34.02	-61.24	-13.00	-48.24
7010.4	H	-	-	-81.39	10.90	36.51	-58.75	-13.00	-45.75

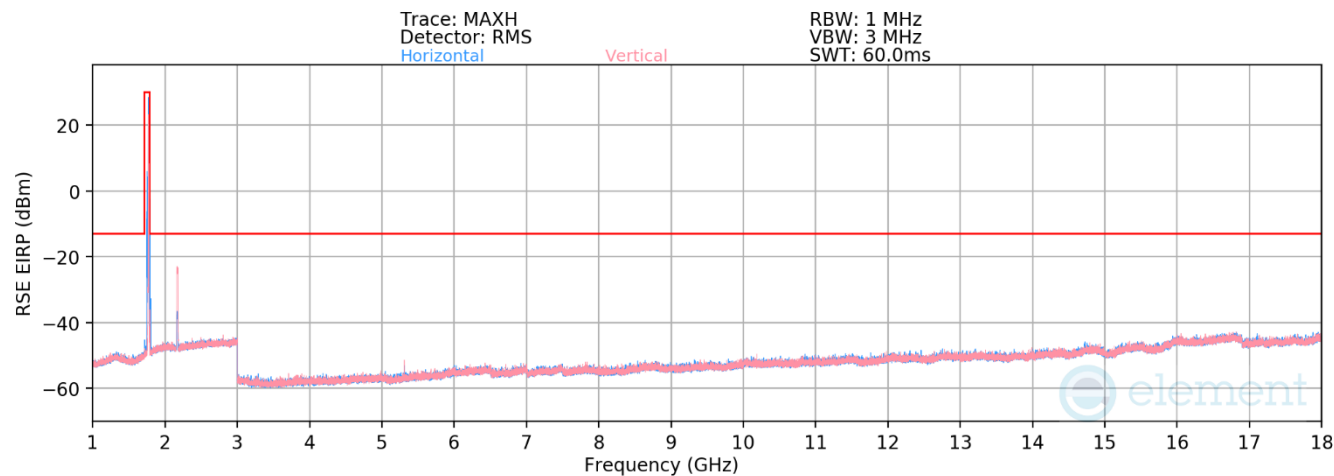
Table 7-45. Antenna 3b Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 309 of 351

V2.2 09/07/2023

7.7.2 Antenna 1b – Radiated Spurious Emission Measurement

LTE Band 66/4



Plot 7-478. Antenna 1b Radiated Spurious Emission above 1GHz (LTE Band 66/4)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 310 of 351

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	147	213	-72.29	-0.07	34.64	-60.62	-13.00	-47.62
5160.0	V	310	217	-71.24	3.07	38.83	-56.43	-13.00	-43.43
6880.0	V	-	-	-77.74	5.30	34.56	-60.69	-13.00	-47.69
8600.0	V	-	-	-76.92	5.38	35.47	-59.79	-13.00	-46.79
10320.0	V	-	-	-78.02	7.92	36.89	-58.36	-13.00	-45.36

Table 7-46. Antenna 1b 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	250	360	-75.63	-0.08	31.29	-63.97	-13.00	-50.97
5235.0	V	317	219	-71.56	3.36	38.80	-56.46	-13.00	-43.46
6980.0	V	-	-	-77.84	5.43	34.59	-60.67	-13.00	-47.67
8725.0	V	-	-	-77.17	5.80	35.63	-59.63	-13.00	-46.63
10470.0	V	-	-	-78.18	8.39	37.21	-58.05	-13.00	-45.05

Table 7-47. Antenna 1b 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]
3540.0	V	-	-	-75.83	0.24	31.41	-63.84	-13.00	-50.84
5310.0	V	277	350	-70.74	3.39	39.65	-55.61	-13.00	-42.61
7080.0	V	-	-	-78.22	5.62	34.40	-60.86	-13.00	-47.86
8850.0	V	-	-	-77.41	6.10	35.69	-59.57	-13.00	-46.57
10620.0	V	-	-	-78.19	8.29	37.10	-58.16	-13.00	-45.16

Table 7-48. Antenna 1b Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 311 of 351

NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

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]
3460.0	H	118	146	-72.68	-0.08	34.24	-61.02	-13.00	-48.02
5190.0	V	294	353	-74.94	3.17	35.24	-60.02	-13.00	-47.02
6920.0	H	-	-	-77.84	5.32	34.47	-60.78	-13.00	-47.78
8650.0	H	-	-	-77.02	5.66	35.65	-59.61	-13.00	-46.61
10380.0	H	-	-	-77.90	7.95	37.05	-58.21	-13.00	-45.21

Table 7-49. Antenna 1b Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108

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	169	163	-71.75	-0.08	35.17	-60.09	-13.00	-47.09
5235.0	V	250	228	-74.93	3.36	35.43	-59.82	-13.00	-46.82
6980.0	H	-	-	-77.83	5.43	34.60	-60.66	-13.00	-47.66
8725.0	H	-	-	-77.17	5.87	35.70	-59.55	-13.00	-46.55
10470.0	H	-	-	-78.02	8.15	37.14	-58.12	-13.00	-45.12

Table 7-50. Antenna 1b Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

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]
3520.0	H	136	178	-72.75	0.22	34.47	-60.79	-13.00	-47.79
5280.0	H	-	-	-77.37	3.28	32.91	-62.35	-13.00	-49.35
7040.0	H	-	-	-77.81	5.62	34.81	-60.44	-13.00	-47.44
8800.0	H	-	-	-77.25	5.93	35.68	-59.58	-13.00	-46.58

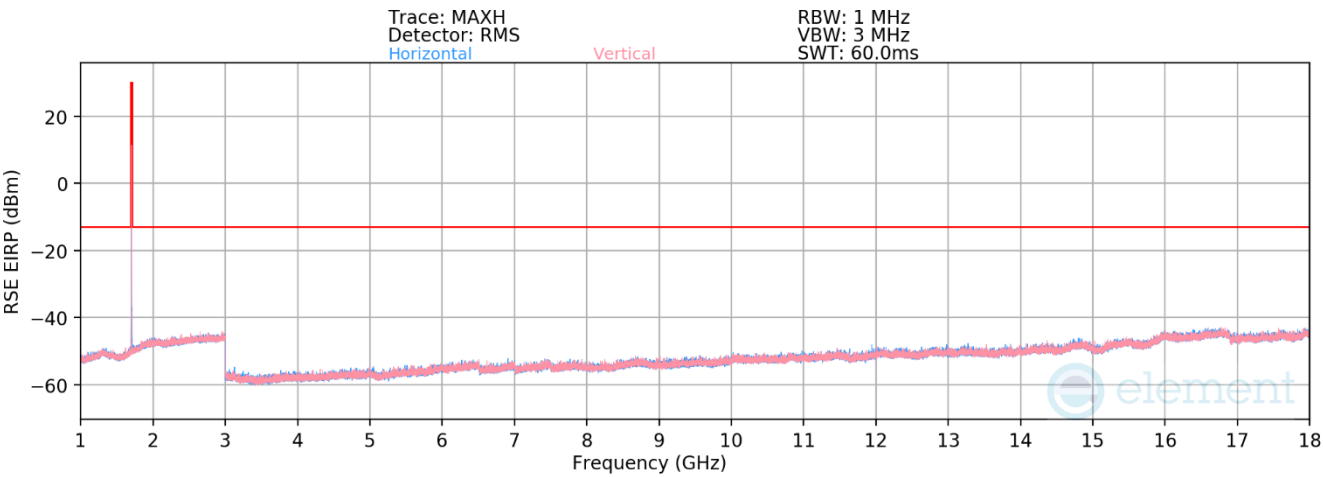
Table 7-51. Antenna 1b Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 312 of 351

V2.2 09/07/2023

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NR Band n70



FCC ID: BCGA2995	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 313 of 351

V2.2 09/07/2023

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

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]
3405.0	H	170	166	-70.71	0.15	36.44	-58.82	-13.00	-45.82
5107.5	V	295	360	-74.75	2.79	35.05	-60.21	-13.00	-47.21
6810.0	H	-	-	-77.93	5.28	34.35	-60.91	-13.00	-47.91
8512.5	H	-	-	-77.10	5.32	35.23	-60.03	-13.00	-47.03
10215.0	H	-	-	-78.05	8.00	36.95	-58.31	-13.00	-45.31

Table 7-52. Antenna 1b Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

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]
3405.0	H	164	164	-70.36	0.03	36.66	-58.59	-13.00	-45.59
5107.5	H	-	-	-75.88	2.92	34.05	-61.21	-13.00	-48.21
6810.0	H	-	-	-77.55	5.28	34.73	-60.53	-13.00	-47.53
8512.5	H	-	-	-77.04	5.32	35.29	-59.97	-13.00	-46.97

Table 7-53. Antenna 1b Radiated Spurious Data (NR Band n70 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

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]
3405.0	H	159	162	-70.86	0.03	36.17	-59.09	-13.00	-46.09
5107.5	H	-	-	-75.91	2.94	34.03	-61.23	-13.00	-48.23
6810.0	H	-	-	-77.84	5.37	34.53	-60.73	-13.00	-47.73
8512.5	H	-	-	-76.75	5.24	35.49	-59.76	-13.00	-46.76

Table 7-54. Antenna 1b Radiated Spurious Data (NR Band n70 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 314 of 351

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	-	-	-78.96	4.29	32.33	-62.93	-13.00	-49.93
5137.2	H	-	-	-80.41	7.59	34.18	-61.08	-13.00	-48.08
6849.6	H	-	-	-81.01	10.57	36.56	-58.70	-13.00	-45.70

7-55. Antenna 1b 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	-	-	-78.99	4.47	32.48	-62.78	-13.00	-49.78
5197.8	H	-	-	-80.39	7.76	34.37	-60.89	-13.00	-47.89
6930.4	H	-	-	-81.75	10.92	36.17	-59.08	-13.00	-46.08

Table 7-56. Antenna 1b 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	-	-	-78.98	4.34	32.36	-62.89	-13.00	-49.89
5257.8	H	-	-	-80.66	7.82	34.16	-61.10	-13.00	-48.10
7010.4	H	-	-	-81.77	10.90	36.13	-59.13	-13.00	-46.13

Table 7-57. Antenna 1b Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 315 of 351

V2.2 09/07/2023

7.7.3 Antenna 4 – 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	V	-	-	-75.30	-0.07	31.63	-63.63	-13.00	-50.63
5160.0	V	-	-	-77.27	3.07	32.80	-62.46	-13.00	-49.46
6880.0	V	-	-	-77.46	5.30	34.84	-60.41	-13.00	-47.41

Table 7-58. Antenna 4 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	104	152	-71.48	-0.08	35.43	-59.82	-13.00	-46.82
5235.0	V	-	-	-77.56	3.32	32.76	-62.50	-13.00	-49.50
6980.0	V	-	-	-77.75	5.46	34.71	-60.55	-13.00	-47.55
8725.0	V	-	-	-77.28	5.88	35.59	-59.66	-13.00	-46.66

Table 7-59. Antenna 4 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]
3540.0	H	101	148	-71.29	0.24	35.95	-59.30	-13.00	-46.30
5310.0	V	-	-	-77.36	3.33	32.98	-62.28	-13.00	-49.28
7080.0	V	-	-	-78.22	5.55	34.33	-60.93	-13.00	-47.93
8850.0	V	-	-	-77.51	6.10	35.59	-59.67	-13.00	-46.67

Table 7-60. Antenna 4 Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 316 of 351

V2.2 09/07/2023

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	H	104	344	-75.72	-1.30	29.98	-65.27	-13.00	-52.27
2019.0	H	-	-	-78.24	1.54	30.30	-64.96	-13.00	-51.96
2692.0	H	-	-	-78.25	2.64	31.39	-63.87	-13.00	-50.87
3365.0	H	-	-	-79.17	3.80	31.62	-63.63	-13.00	-50.63

Table 7-61. Antenna 4 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	279	170	-75.42	-1.35	30.23	-65.03	-13.00	-52.03
2041.5	H	143	215	-77.70	1.53	30.83	-64.43	-13.00	-51.43
2722.0	H	-	-	-78.40	2.81	31.41	-63.85	-13.00	-50.85
3402.5	H	-	-	-79.17	3.81	31.64	-63.61	-13.00	-50.61
4083.0	H	-	-	-79.52	5.12	32.60	-62.66	-13.00	-49.66

Table 7-62. Antenna 4 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	H	230	191	-75.88	-1.36	29.76	-65.49	-13.00	-52.49
2064.0	H	-	-	-78.09	1.32	30.23	-65.03	-13.00	-52.03
2752.0	H	-	-	-78.41	2.81	31.40	-63.85	-13.00	-50.85
3440.0	H	-	-	-79.13	3.95	31.82	-63.44	-13.00	-50.44

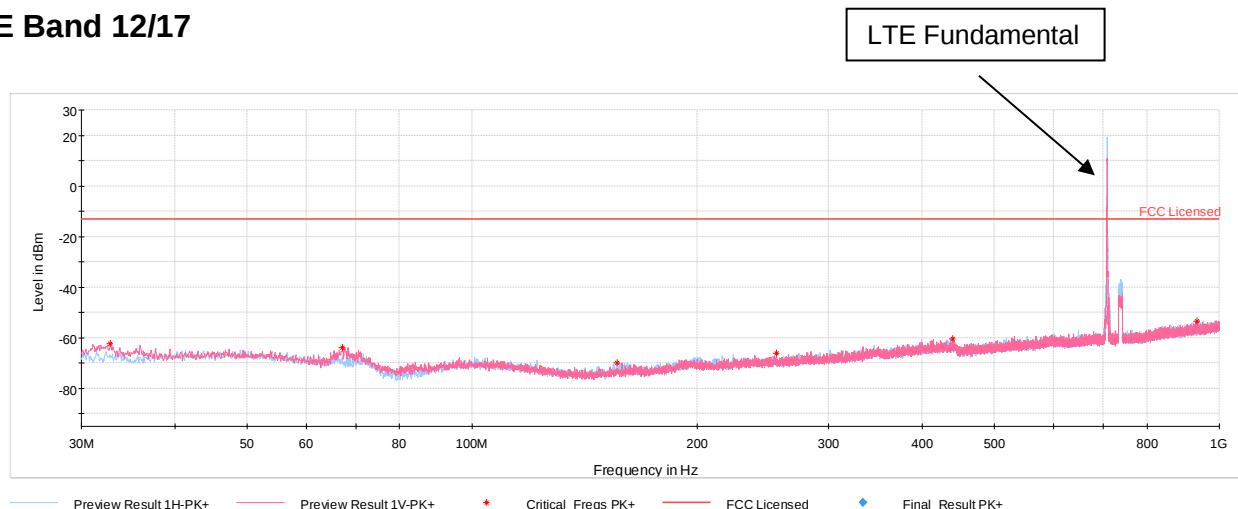
Table 7-63. Antenna 4 Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 317 of 351

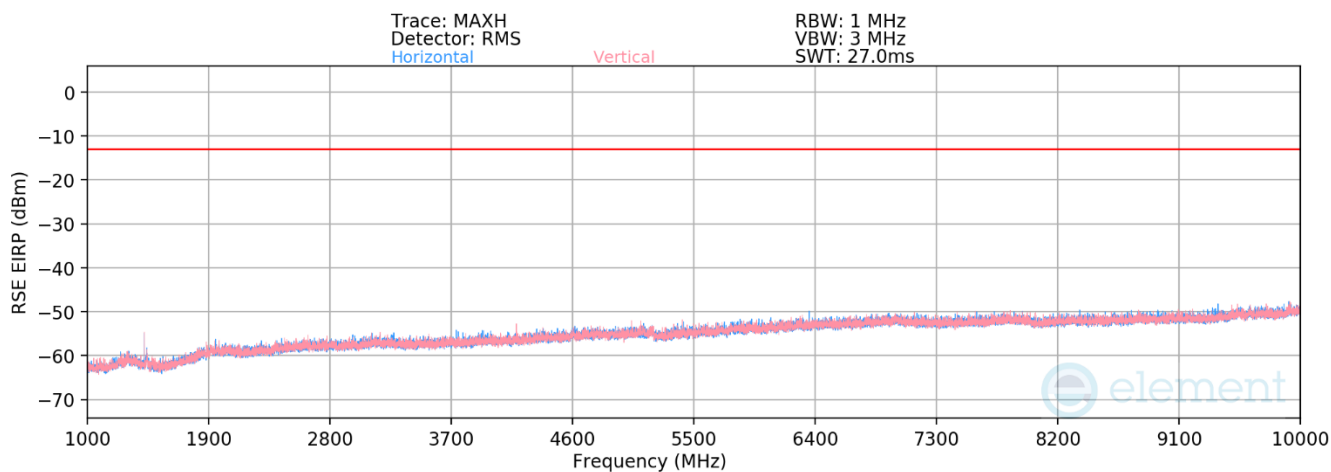
V2.2 09/07/2023

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LTE Band 12/17



Plot 7-480. Antenna 4 Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-481. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 318 of 351

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	H	253	343	-71.17	-2.09	33.74	-61.52	-13.00	-48.52
2112.0	H	-	-	-78.29	1.35	30.06	-65.19	-13.00	-52.19
2816.0	H	-	-	-78.24	2.74	31.50	-63.76	-13.00	-50.76
3520.0	H	-	-	-79.02	4.10	32.09	-63.17	-13.00	-50.17

Table 7-64. Antenna 4 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	H	204	352	-69.54	-2.12	35.34	-59.92	-13.00	-46.92
2122.5	H	-	-	-78.00	1.13	30.13	-65.13	-13.00	-52.13
2830.0	H	-	-	-78.28	2.84	31.56	-63.70	-13.00	-50.70
3537.5	H	-	-	-79.06	4.23	32.17	-63.09	-13.00	-50.09

Table 7-65. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

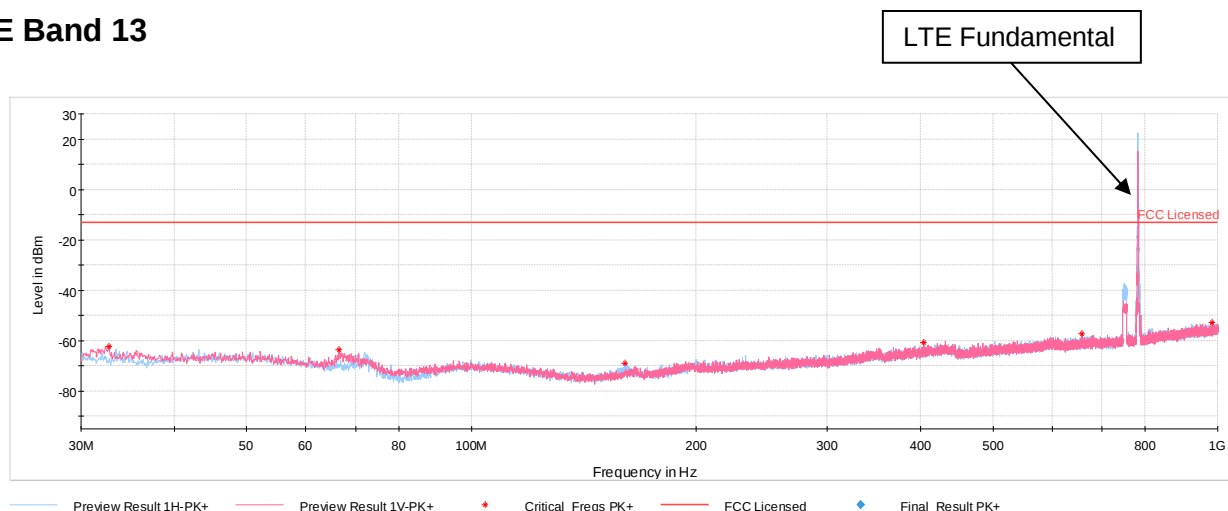
Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

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	H	200	347	-68.47	-2.12	36.41	-58.85	-13.00	-45.85
2133.0	H	-	-	-78.18	1.13	29.95	-65.31	-13.00	-52.31
2844.0	H	-	-	-78.20	2.93	31.73	-63.53	-13.00	-50.53
3555.0	H	-	-	-79.06	4.05	31.99	-63.27	-13.00	-50.27

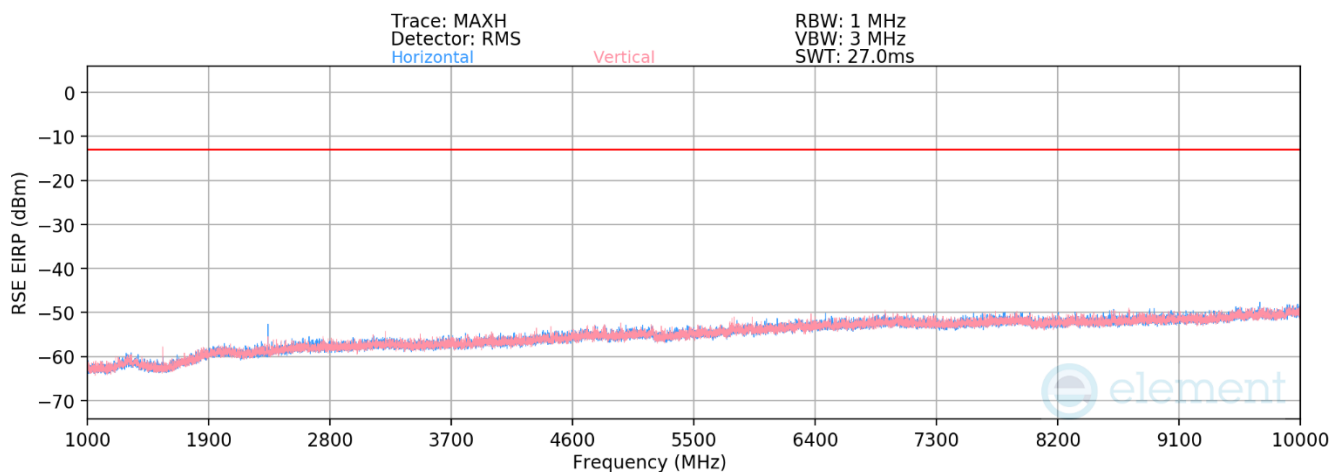
Table 7-66. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 319 of 351

LTE Band 13



Plot 7-482. Antenna 4 Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-483. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 320 of 351

V2.2 09/07/2023

Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 12

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	289	214	-70.68	-2.79	33.53	-61.73	-40.00	-21.73
2338.5	H	300	131	-74.82	1.90	34.08	-61.18	-13.00	-48.18
3118.0	V	-	-	-78.81	3.82	32.01	-63.25	-13.00	-50.25
3897.5	V	-	-	-79.61	5.14	32.53	-62.73	-13.00	-49.73
4677.0	V	-	-	-80.65	7.27	33.62	-61.64	-13.00	-48.64

Table 7-67. Antenna 4 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	V	282	172	-72.38	-2.79	31.82	-63.43	-40.00	-23.43
2346.0	V	198	137	-76.37	1.77	32.40	-62.86	-13.00	-49.86
3128.0	V	-	-	-78.83	3.79	31.96	-63.30	-13.00	-50.30
3910.0	V	-	-	-79.41	5.09	32.68	-62.58	-13.00	-49.58
4692.0	V	-	-	-80.15	6.85	33.70	-61.56	-13.00	-48.56

Table 7-68. Antenna 4 Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 12

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	V	275	211	-71.32	-2.79	32.88	-62.37	-40.00	-22.37
2353.5	V	291	149	-67.52	1.71	41.19	-54.07	-13.00	-41.07
3138.0	V	-	-	-78.77	3.88	32.11	-63.15	-13.00	-50.15
3922.5	V	-	-	-79.73	5.14	32.41	-62.85	-13.00	-49.85
4707.0	V	-	-	-80.02	6.85	33.83	-61.43	-13.00	-48.43

Table 7-69. Antenna 4 Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 321 of 351

V2.2 09/07/2023

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NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

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]
3460.0	H	-	-	-75.33	-0.08	31.59	-63.66	-13.00	-50.66
5190.0	H	-	-	-77.13	3.23	33.10	-62.16	-13.00	-49.16
6920.0	H	-	-	-77.87	5.32	34.45	-60.81	-13.00	-47.81

Table 7-70. Antenna 4 Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108

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	108	156	-71.48	-0.08	35.44	-59.82	-13.00	-46.82
5235.0	H	-	-	-77.33	3.23	32.90	-62.36	-13.00	-49.36
6980.0	H	-	-	-77.56	5.35	34.79	-60.46	-13.00	-47.46
8725.0	H	-	-	-77.30	5.87	35.57	-59.68	-13.00	-46.68

Table 7-71. Antenna 4 Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

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]
3520.0	H	-	-	-74.88	0.22	32.33	-62.92	-13.00	-49.92
5280.0	H	-	-	-77.26	3.23	32.97	-62.29	-13.00	-49.29
7040.0	H	-	-	-78.03	5.62	34.59	-60.66	-13.00	-47.66

Table 7-72. Antenna 4 Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 322 of 351

V2.2 09/07/2023

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NR Band n70

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

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]
3405.0	H	-	-	-75.86	0.15	31.29	-63.97	-13.00	-50.97
5107.5	H	-	-	-77.27	2.94	32.67	-62.58	-13.00	-49.58
6810.0	H	-	-	-77.61	5.28	34.67	-60.59	-13.00	-47.59

Table 7-73. Antenna 4 Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

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]
3405.0	H	-	-	-75.89	0.16	31.27	-63.99	-13.00	-50.99
5107.5	H	-	-	-77.47	2.94	32.47	-62.79	-13.00	-49.79
6810.0	H	-	-	-77.35	5.28	34.93	-60.33	-13.00	-47.33

Table 7-74. Antenna 4 Radiated Spurious Data (NR Band n70 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

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]
3405.0	H	-	-	-75.61	-0.12	31.27	-63.99	-13.00	-50.99
5107.5	H	-	-	-77.25	2.94	32.69	-62.56	-13.00	-49.56
6810.0	H	-	-	-78.07	5.37	34.30	-60.96	-13.00	-47.96

Table 7-75. Antenna 4 Radiated Spurious Data (NR Band n70 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 323 of 351

V2.2 09/07/2023

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	V	366	212	-74.01	-1.30	31.69	-63.57	-13.00	-50.57
2019.0	H	-	-	-78.01	1.54	30.53	-64.73	-13.00	-51.73
2692.0	H	-	-	-78.84	2.92	31.08	-64.18	-13.00	-51.18
3365.0	H	-	-	-79.00	3.80	31.80	-63.46	-13.00	-50.46

Table 7-76. Antenna 4 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	H	230	176	-74.96	-1.35	30.69	-64.57	-13.00	-51.57
2041.5	H	-	-	-77.97	1.53	30.56	-64.70	-13.00	-51.70
2722.0	H	-	-	-78.59	2.80	31.21	-64.05	-13.00	-51.05
3402.5	H	-	-	-79.20	3.81	31.61	-63.65	-13.00	-50.65

Table 7-77. Antenna 4 Radiated Spurious Data (NR Band n71 – Mid Channel)

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

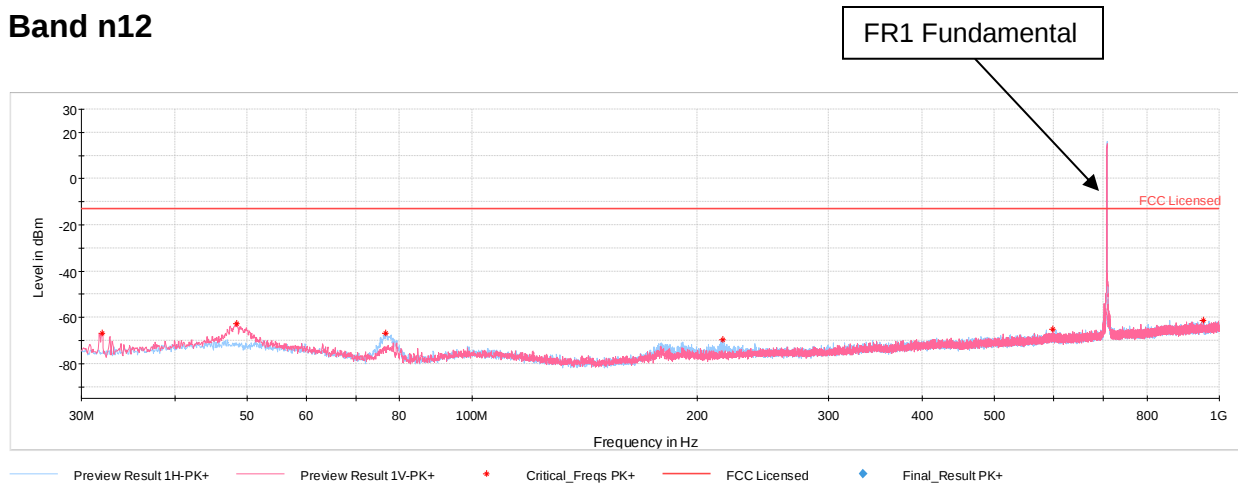
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	-	-	-77.10	-1.36	28.54	-66.71	-13.00	-53.71
2064.0	H	-	-	-77.99	1.53	30.54	-64.72	-13.00	-51.72
2752.0	H	-	-	-78.35	2.81	31.46	-63.79	-13.00	-50.79

Table 7-78. Antenna 4 Radiated Spurious Data (NR Band n71 – High Channel)

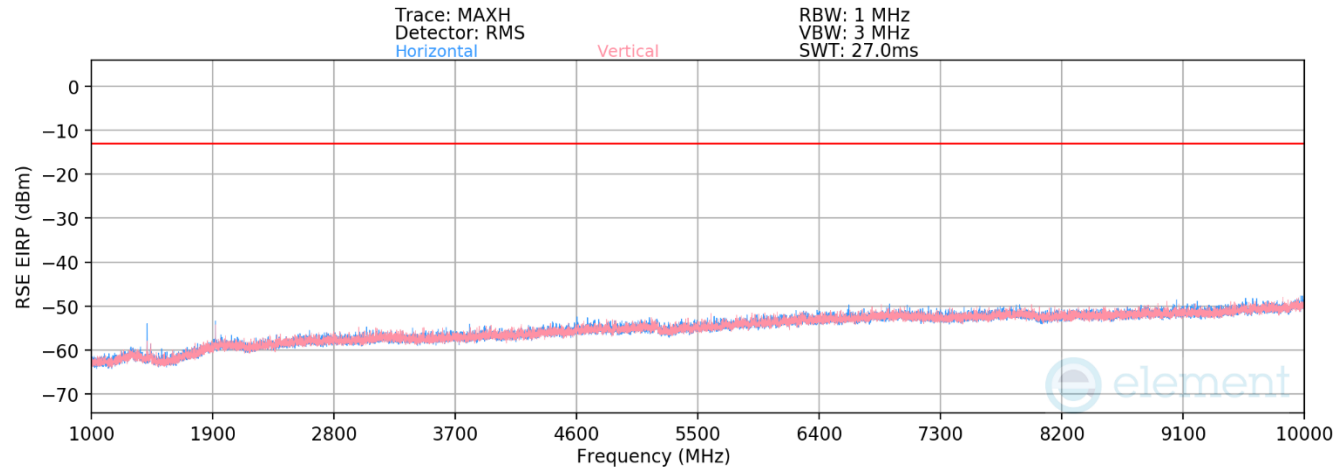
FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 324 of 351

V2.2 09/07/2023

NR Band n12



Plot 7-484. Antenna 4 Radiated Spurious Emission below 1GHz (NR Band n12)



Plot 7-485. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n12)

FCC ID: BCGA2995	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 325 of 351

V2.2 09/07/2023

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37

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]
1413.0	H	220	179	-70.00	-2.12	34.88	-60.38	-13.00	-47.38
2119.5	H	122	218	-64.92	1.13	43.21	-52.05	-13.00	-39.05
2826.0	V	-	-	-78.43	2.84	31.41	-63.85	-13.00	-50.85
3532.5	V	-	-	-79.07	4.10	32.03	-63.23	-13.00	-50.23
4239.0	V	-	-	-79.51	5.90	33.39	-61.87	-13.00	-48.87

Table 7-79. Antenna 4 Radiated Spurious Data (NR Band n12 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37

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	394	236	-68.08	-2.12	36.80	-58.46	-13.00	-45.46
2122.5	V	-	-	-76.32	1.13	31.81	-63.44	-13.00	-50.44
2830.0	V	-	-	-78.50	2.84	31.34	-63.92	-13.00	-50.92
3537.5	V	-	-	-79.12	4.10	31.99	-63.27	-13.00	-50.27

Table 7-80. Antenna 4 Radiated Spurious Data (NR Band n12 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

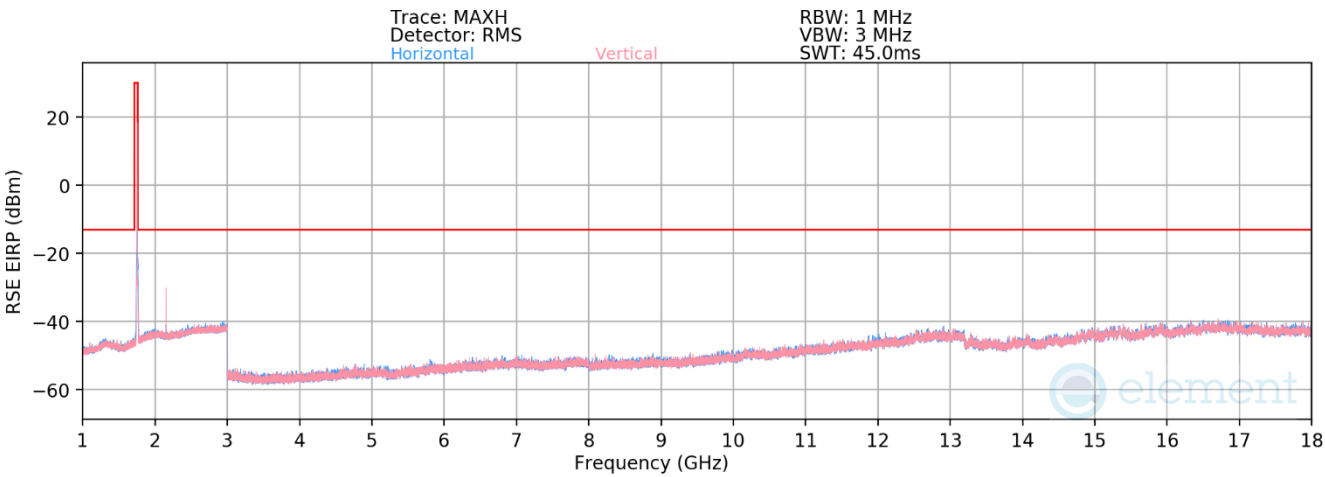
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	V	394	241	-67.69	-2.12	37.19	-58.07	-13.00	-45.07
2125.5	V	-	-	-77.60	1.15	30.55	-64.71	-13.00	-51.71
2834.0	V	-	-	-78.19	2.93	31.74	-63.51	-13.00	-50.51
3542.5	V	-	-	-79.26	4.23	31.97	-63.29	-13.00	-50.29

Table 7-81. Antenna 4 Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 326 of 351



WCDMA AWS



Plot 7-486. Antenna 4 Radiated Spurious Emission above 1GHz (WCDMA AWS)

FCC ID: BCGA2995	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 327 of 351

V2.2 09/07/2023

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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	H	-	-	-79.10	4.29	32.19	-63.07	-13.00	-50.07
5137.2	H	-	-	-80.52	7.59	34.07	-61.19	-13.00	-48.19
6849.6	H	-	-	-81.34	10.57	36.23	-59.03	-13.00	-46.03

7-82. Antenna 4 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	-	-	-78.96	4.47	32.51	-62.75	-13.00	-49.75
5197.8	H	-	-	-80.19	7.76	34.57	-60.69	-13.00	-47.69
6930.4	H	-	-	-81.50	10.92	36.42	-58.83	-13.00	-45.83

Table 7-83. Antenna 4 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	117	154	-77.58	4.34	33.76	-61.49	-13.00	-48.49
5257.8	H	-	-	-80.84	7.82	33.98	-61.28	-13.00	-48.28
7010.4	H	-	-	-81.58	10.90	36.32	-58.94	-13.00	-45.94
8763.0	H	-	-	-81.23	11.31	37.08	-58.18	-13.00	-45.18

Table 7-84. Antenna 4 Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 328 of 351

7.7.4 Antenna 2 – 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	V	-	-	-75.76	-0.08	31.16	-64.09	-13.00	-51.09
5160.0	V	-	-	-77.41	3.29	32.88	-62.37	-13.00	-49.37
6880.0	V	-	-	-77.44	5.22	34.78	-60.48	-13.00	-47.48

Table 7-85. Antenna 2 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	108	338	-71.64	-0.08	35.27	-59.99	-13.00	-46.99
5235.0	V	-	-	-77.30	3.23	32.93	-62.33	-13.00	-49.33
6980.0	V	-	-	-77.71	5.46	34.75	-60.51	-13.00	-47.51
8725.0	V	-	-	-77.20	5.87	35.67	-59.59	-13.00	-46.59

Table 7-86. Antenna 2 Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

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

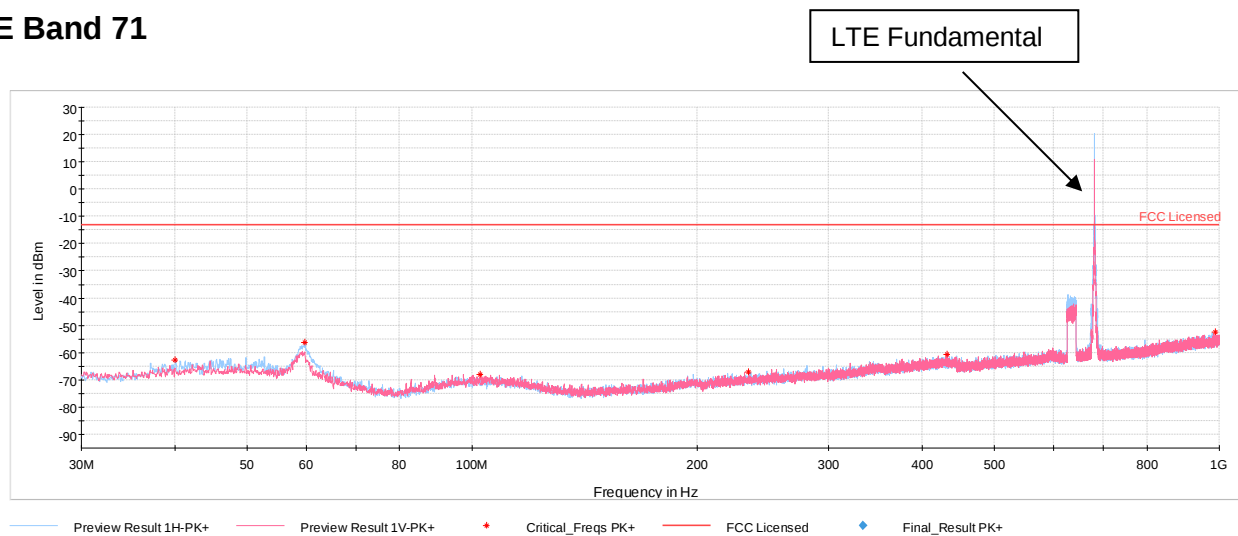
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	H	100	319	-69.38	0.24	37.86	-57.40	-13.00	-44.40
5310.0	V	-	-	-77.31	3.39	33.08	-62.18	-13.00	-49.18
7080.0	V	-	-	-78.22	5.62	34.40	-60.86	-13.00	-47.86
8850.0	V	-	-	-77.26	5.87	35.61	-59.64	-13.00	-46.64

Table 7-87. Antenna 2 Radiated Spurious Data (LTE Band 66/4 – High Channel)

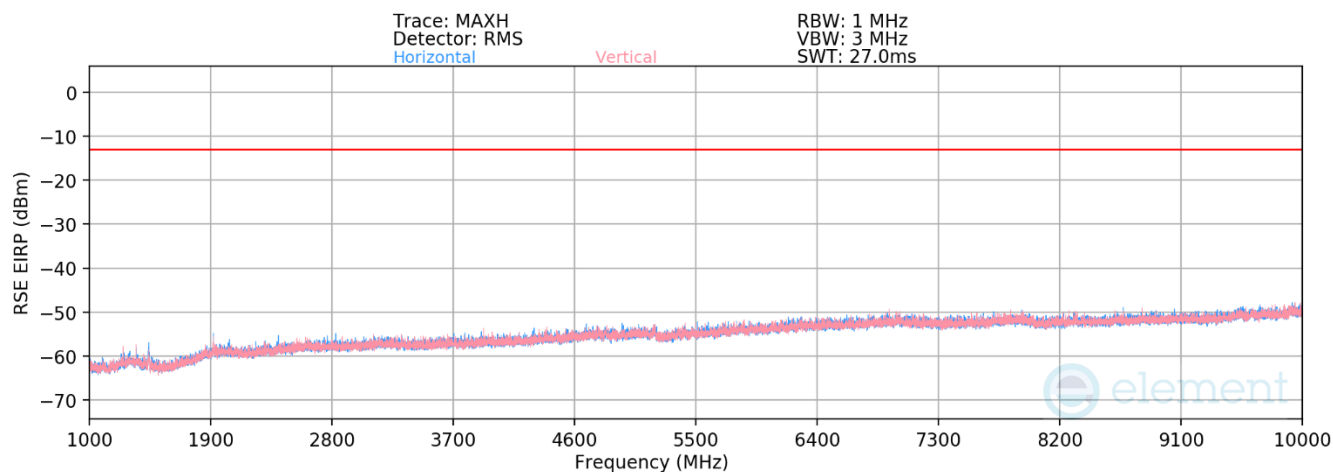
FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 329 of 351

V2.2 09/07/2023

LTE Band 71



Plot 7-487. Antenna 2 Radiated Spurious Emission below 18GHz (LTE Band 71)



Plot 7-488. Antenna 2 Radiated Spurious Emission above 18GHz (LTE Band 71)

FCC ID: BCGA2995	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 330 of 351

V2.2 09/07/2023

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	213	326	-73.03	-1.30	32.67	-62.59	-13.00	-49.59
2019.0	H	-	-	-78.11	1.53	30.42	-64.84	-13.00	-51.84
2692.0	H	-	-	-78.73	2.92	31.19	-64.06	-13.00	-51.06
3365.0	H	-	-	-78.92	3.87	31.95	-63.30	-13.00	-50.30

Table 7-88. Antenna 2 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	165	320	-75.39	-1.35	30.25	-65.00	-13.00	-52.00
2041.5	H	-	-	-78.06	1.53	30.47	-64.78	-13.00	-51.78
2722.0	H	-	-	-78.34	2.64	31.31	-63.95	-13.00	-50.95
3402.5	H	-	-	-79.04	3.84	31.80	-63.46	-13.00	-50.46

Table 7-89. Antenna 2 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	H	164	44	-75.99	-1.36	29.65	-65.61	-13.00	-52.61
2064.0	H	-	-	-78.16	1.53	30.37	-64.88	-13.00	-51.88
2752.0	H	-	-	-78.45	2.81	31.36	-63.90	-13.00	-50.90
3440.0	H	-	-	-79.18	3.95	31.77	-63.48	-13.00	-50.48

Table 7-90. Antenna 2 Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 331 of 351

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	H	195	201	-70.41	-2.09	34.50	-60.76	-13.00	-47.76
2112.0	H	-	-	-78.14	1.35	30.21	-65.05	-13.00	-52.05
2816.0	H	-	-	-78.68	2.93	31.25	-64.01	-13.00	-51.01
3520.0	H	-	-	-79.15	4.06	31.91	-63.35	-13.00	-50.35

Table 7-91. Antenna 2 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	H	242	187	-70.04	-2.12	34.83	-60.42	-13.00	-47.42
2122.5	H	-	-	-77.71	1.15	30.43	-64.82	-13.00	-51.82
2830.0	H	-	-	-78.51	2.84	31.33	-63.93	-13.00	-50.93
3537.5	H	-	-	-78.85	4.10	32.26	-63.00	-13.00	-50.00

Table 7-92. Antenna 2 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	H	227	190	-69.32	-2.12	35.56	-59.70	-13.00	-46.70
2133.0	H	-	-	-77.90	1.13	30.23	-65.03	-13.00	-52.03
2844.0	H	-	-	-78.45	2.91	31.47	-63.79	-13.00	-50.79
3555.0	H	-	-	-78.95	4.05	32.10	-63.16	-13.00	-50.16

Table 7-93. Antenna 2 Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 332 of 351

V2.2 09/07/2023

LTE Band 13

Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 12

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	190	2	-71.24	-2.79	32.96	-62.29	-40.00	-22.29
2338.5	H	369	321	-77.65	1.90	31.25	-64.01	-13.00	-51.01
3118.0	H	-	-	-78.96	3.82	31.86	-63.40	-13.00	-50.40
3897.5	H	-	-	-79.63	5.14	32.51	-62.74	-13.00	-49.74
4677.0	H	-	-	-80.27	7.27	33.99	-61.26	-13.00	-48.26

Table 7-94. Antenna 2 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	140	331	-70.77	-2.79	33.44	-61.82	-40.00	-21.82
2346.0	H	373	310	-77.75	1.77	31.02	-64.24	-13.00	-51.24
3128.0	H	-	-	-78.67	3.82	32.16	-63.10	-13.00	-50.10
3910.0	H	-	-	-79.23	4.89	32.66	-62.60	-13.00	-49.60
4692.0	H	-	-	-80.01	6.89	33.88	-61.38	-13.00	-48.38

Table 7-95. Antenna 2 Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 12

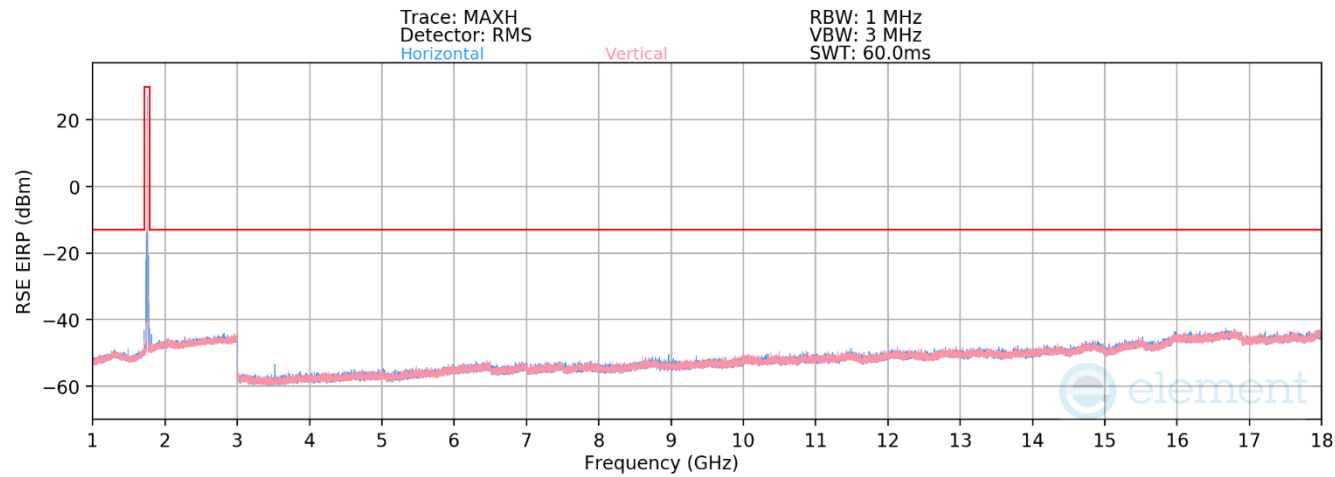
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	H	134	346	-71.52	-2.79	32.69	-62.57	-40.00	-22.57
2353.5	V	376	52	-76.73	1.71	31.98	-63.28	-13.00	-50.28
3138.0	H	-	-	-78.84	3.90	32.05	-63.20	-13.00	-50.20
3922.5	H	-	-	-79.49	5.09	32.60	-62.66	-13.00	-49.66
4707.0	H	-	-	-80.12	6.89	33.77	-61.49	-13.00	-48.49

Table 7-96. Antenna 2 Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 333 of 351

V2.2 09/07/2023

NR Band n66



FCC ID: BCGA2995	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 334 of 351

V2.2 09/07/2023

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

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]
3460.0	H	-	-	-75.10	-0.08	31.83	-63.43	-13.00	-50.43
5190.0	H	-	-	-77.17	3.23	33.06	-62.20	-13.00	-49.20
6920.0	H	-	-	-77.79	5.32	34.53	-60.73	-13.00	-47.73

Table 7-97. Antenna 2 Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108

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	122	172	-72.69	-0.08	34.23	-61.03	-13.00	-48.03
5235.0	H	-	-	-77.38	3.32	32.93	-62.32	-13.00	-49.32
6980.0	H	-	-	-77.53	5.43	34.89	-60.36	-13.00	-47.36
8725.0	H	-	-	-77.21	5.88	35.67	-59.59	-13.00	-46.59

Table 7-98. Antenna 2 Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

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]
3520.0	H	119	164	-71.64	0.22	35.57	-59.68	-13.00	-46.68
5280.0	H	-	-	-77.21	3.23	33.01	-62.24	-13.00	-49.24
7040.0	H	-	-	-77.81	5.62	34.81	-60.45	-13.00	-47.45
8800.0	H	-	-	-77.38	5.93	35.55	-59.71	-13.00	-46.71

Table 7-99. Antenna 2 Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 335 of 351

NR Band n70

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

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]
3405.0	H	-	-	-75.95	0.15	31.20	-64.05	-13.00	-51.05
5107.5	H	-	-	-77.20	2.94	32.74	-62.52	-13.00	-49.52
6810.0	H	-	-	-77.13	5.23	35.10	-60.16	-13.00	-47.16

Table 7-100. Antenna 2 Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

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]
3405.0	H	-	-	-75.63	0.16	31.53	-63.73	-13.00	-50.73
5107.5	H	-	-	-77.23	2.79	32.56	-62.69	-13.00	-49.69
6810.0	H	-	-	-77.80	5.28	34.48	-60.78	-13.00	-47.78

Table 7-101. Antenna 2 Radiated Spurious Data (NR Band n70 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 36

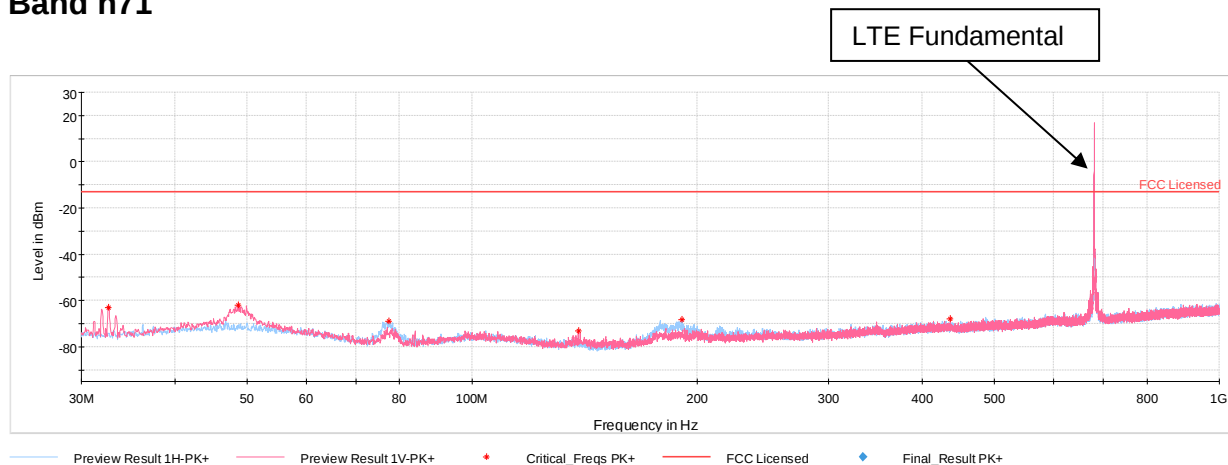
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.0	H	-	-	-75.65	-0.12	31.23	-64.02	-13.00	-51.02
5107.5	H	-	-	-77.28	2.92	32.64	-62.62	-13.00	-49.62
6810.0	H	-	-	-77.91	5.37	34.47	-60.79	-13.00	-47.79

Table 7-102. Antenna 2 Radiated Spurious Data (NR Band n70 – High Channel)

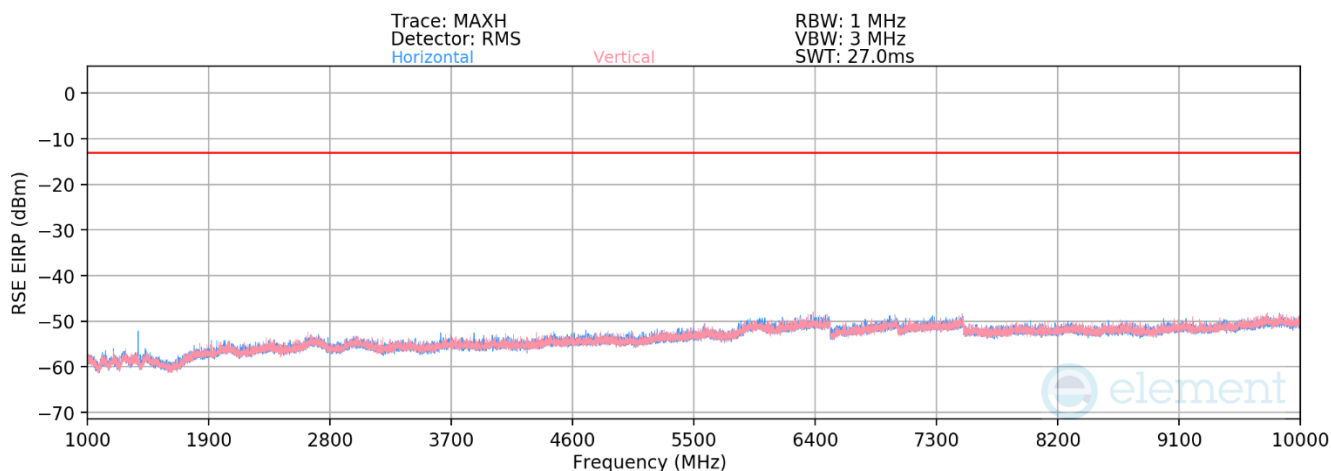
FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 336 of 351

V2.2 09/07/2023

NR Band n71



Plot 7-490. Antenna 2 Radiated Spurious Emission below 1GHz (NR Band n71)



Plot 7-491. Antenna 2 Radiated Spurious Emission above 1GHz (NR Band n71)

FCC ID: BCGA2995		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 337 of 351

V2.2 09/07/2023

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	100	342	-69.11	-4.57	33.32	-61.94	-13.00	-48.94
2019.0	H	-	-	-73.30	-0.98	32.72	-62.54	-13.00	-49.54
2692.0	H	-	-	-74.57	1.77	34.20	-61.06	-13.00	-48.06
3365.0	H	-	-	-75.92	2.27	33.35	-61.91	-13.00	-48.91

Table 7-103. Antenna 2 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	H	242	350	-67.70	-4.87	34.43	-60.82	-13.00	-47.82
2041.5	H	-	-	-73.35	-0.78	32.87	-62.39	-13.00	-49.39
2722.0	H	-	-	-74.96	1.78	33.82	-61.44	-13.00	-48.44
3402.5	H	-	-	-75.84	2.27	33.43	-61.83	-13.00	-48.83

Table 7-104. Antenna 2 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	H	246	341	-65.85	-4.81	36.33	-58.92	-13.00	-45.92
2064.0	H	-	-	-73.40	-0.78	32.83	-62.43	-13.00	-49.43
2752.0	H	-	-	-74.94	1.51	33.57	-61.69	-13.00	-48.69
3440.0	H	-	-	-76.05	2.28	33.24	-62.02	-13.00	-49.02

Table 7-105. Antenna 2 Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 338 of 351

NR Band n12

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37

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]
1413.0	H	300	216	-73.36	-2.12	31.52	-63.74	-13.00	-50.74
2119.5	H	-	-	-77.90	1.05	30.16	-65.10	-13.00	-52.10
2826.0	H	-	-	-78.52	2.84	31.31	-63.94	-13.00	-50.94
3532.5	H	-	-	-79.14	4.10	31.97	-63.29	-13.00	-50.29

Table 7-106. Antenna 2 Radiated Spurious Data (NR Band n12 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37

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	H	248	237	-72.44	-2.12	32.44	-62.82	-13.00	-49.82
2122.5	H	-	-	-78.27	1.35	30.08	-65.18	-13.00	-52.18
2830.0	H	-	-	-78.65	2.93	31.28	-63.98	-13.00	-50.98
3537.5	H	-	-	-79.28	4.23	31.96	-63.30	-13.00	-50.30

Table 7-107. Antenna 2 Radiated Spurious Data (NR Band n12 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

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]
1417.0	H	250	235	-72.33	-2.12	32.55	-62.71	-13.00	-49.71
2125.5	H	-	-	-78.04	1.05	30.02	-65.24	-13.00	-52.24
2834.0	H	-	-	-78.30	2.84	31.54	-63.72	-13.00	-50.72
3542.5	H	-	-	-79.20	4.23	32.03	-63.23	-13.00	-50.23

Table 7-108. Antenna 2 Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 339 of 351

V2.2 09/07/2023

WCDMA AWS

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	-	-	-79.05	4.47	32.42	-62.84	-13.00	-49.84
5197.8	H	-	-	-80.34	7.76	34.42	-60.84	-13.00	-47.84
6930.4	H	-	-	-81.49	10.92	36.43	-58.82	-13.00	-45.82

7-109. Antenna 2 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	-	-	-79.05	4.47	32.42	-62.84	-13.00	-49.84
5197.8	H	-	-	-80.34	7.76	34.42	-60.84	-13.00	-47.84
6930.4	H	-	-	-81.49	10.92	36.43	-58.82	-13.00	-45.82

Table 7-110. Antenna 2 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	-	-	-79.12	4.34	32.22	-63.03	-13.00	-50.03
5257.8	H	-	-	-80.71	7.82	34.11	-61.15	-13.00	-48.15
7010.4	H	-	-	-81.37	10.90	36.53	-58.73	-13.00	-45.73

Table 7-111. Antenna 2 Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 340 of 351

V2.2 09/07/2023

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:

- Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- 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

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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

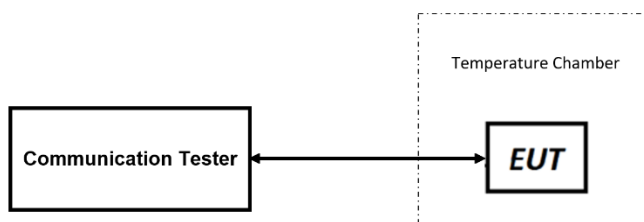


Figure 7-13. LTE Test Instrument & Measurement Setup

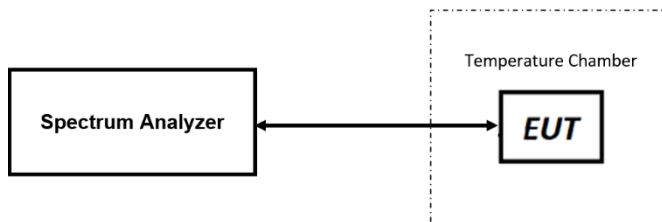


Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 341 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

LTE Band 66/4

Operating Band Lower Boundary (GHz)		1.710		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.71095732	-0.00095732
		- 20	1.71002682	-0.00002682
		- 10	1.71016332	-0.00016332
		0	1.71073072	-0.00073072
		+ 10	1.71046161	-0.00046161
		+ 20 (Ref)	1.71015103	-0.00015103
		+ 30	1.71037911	-0.00037911
		+ 40	1.71052225	-0.00052225
		+ 50	1.71025766	-0.00025766
Battery Endpoint	3.40	+ 20	1.71000924	-0.00000924

Table 7-112. LTE Band 66/4 Lower Boundary Frequency Stability Data

LTE Band 66/4

Operating Band Upper Boundary (GHz)		1.780		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.77951761	-0.00048239
		- 20	1.77993883	-0.00006117
		- 10	1.77941197	-0.00058803
		0	1.77910888	-0.00089112
		+ 10	1.77926402	-0.00073598
		+ 20 (Ref)	1.77934453	-0.00065547
		+ 30	1.77961471	-0.00038529
		+ 40	1.77988600	-0.00011400
		+ 50	1.77957672	-0.00042328
Battery Endpoint	3.40	+ 20	1.77993863	-0.00006137

Table 7-113. LTE Band 66/4 Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 342 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

LTE Band 71				
		Operating Band Lower Boundary (GHz)		0.663
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.66365283	-0.00065283
		- 20	0.66343649	-0.00043649
		- 10	0.66329364	-0.00029364
		0	0.66330647	-0.00030647
		+ 10	0.66334107	-0.00034107
		+ 20 (Ref)	0.66338307	-0.00038307
		+ 30	0.66398961	-0.00098961
		+ 40	0.66341892	-0.00041892
		+ 50	0.66320631	-0.00020631
Battery Endpoint	3.40	+ 20	0.66352578	-0.00052578

Table 7-114. LTE Band 71 Lower Boundary Frequency Stability Data

LTE Band 71				
		Operating Band Upper Boundary (GHz)		0.698
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69734848	-0.00065152
		- 20	0.69793874	-0.00006126
		- 10	0.69765947	-0.00034053
		0	0.69724868	-0.00075132
		+ 10	0.69754199	-0.00045801
		+ 20 (Ref)	0.69791428	-0.00008572
		+ 30	0.69745537	-0.00054463
		+ 40	0.69795431	-0.00004569
		+ 50	0.69734430	-0.00065570
Battery Endpoint	3.40	+ 20	0.69741840	-0.00058160

Table 7-115. LTE Band 71 Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 343 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

LTE Band 12/17

Operating Band Lower Boundary (GHz)		0.699		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69934157	-0.00034157
		- 20	0.69970166	-0.00070166
		- 10	0.69978211	-0.00078211
		0	0.69967570	-0.00067570
		+ 10	0.69928378	-0.00028378
		+ 20 (Ref)	0.69931519	-0.00031519
		+ 30	0.69991638	-0.00091638
		+ 40	0.69969087	-0.00069087
Battery Endpoint	3.40	+ 50	0.69994975	-0.00094975
		+ 20	0.69983751	-0.00083751

Table 7-116. LTE Band 12/17 Lower Boundary Frequency Stability Data

LTE Band 12/17

Operating Band Upper Boundary (GHz)		0.716		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.71571290	-0.00028710
		- 20	0.71530757	-0.00069243
		- 10	0.71572000	-0.00028000
		0	0.71519690	-0.00080310
		+ 10	0.71599214	-0.00000786
		+ 20 (Ref)	0.71503011	-0.00096989
		+ 30	0.71518034	-0.00081966
		+ 40	0.71599756	-0.00000244
Battery Endpoint	3.40	+ 50	0.71527022	-0.00072978
		+ 20	0.71574366	-0.00025634

Table 7-117. LTE Band 12/17 Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 344 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

LTE Band 13

Operating Band Lower Boundary (GHz)		0.777		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.77734840	-0.00034840
		- 20	0.77790785	-0.00090785
		- 10	0.77789914	-0.00089914
		0	0.77703939	-0.00003939
		+ 10	0.77791402	-0.00091402
		+ 20 (Ref)	0.77706004	-0.00006004
		+ 30	0.77761557	-0.00061557
		+ 40	0.77726618	-0.00026618
		+ 50	0.77739759	-0.00039759
Battery Endpoint	3.40	+ 20	0.77729091	-0.00029091

Table 7-118. LTE Band 13 Lower Boundary Frequency Stability Data

LTE Band 13

Operating Band Upper Boundary (GHz)		0.787		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.78600041	-0.00099959
		- 20	0.78600091	-0.00099909
		- 10	0.78610445	-0.00089555
		0	0.78691188	-0.00008812
		+ 10	0.78671353	-0.00028647
		+ 20 (Ref)	0.78682325	-0.00017675
		+ 30	0.78621211	-0.00078789
		+ 40	0.78615150	-0.00084850
		+ 50	0.78677827	-0.00022173
Battery Endpoint	3.40	+ 20	0.78609048	-0.00090952

Table 7-119. LTE Band 13 Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 345 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

NR Band n66

Operating Band Lower Boundary (GHz)		1.710		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.71068343	-0.00068343
		- 20	1.71076914	-0.00076914
		- 10	1.71074249	-0.00074249
		0	1.71051580	-0.00051580
		+ 10	1.71054583	-0.00054583
		+ 20 (Ref)	1.71088281	-0.00088281
		+ 30	1.71047677	-0.00047677
		+ 40	1.71087124	-0.00087124
		+ 50	1.71032127	-0.00032127
Battery Endpoint	3.40	+ 20	1.71009119	-0.00009119

Table 7-120. NR Band n66 Lower Boundary Frequency Stability Data

NR Band n66

Operating Band Upper Boundary (GHz)		1.780		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.77916013	-0.00083987
		- 20	1.77969445	-0.00030555
		- 10	1.77961587	-0.00038413
		0	1.77919110	-0.00080890
		+ 10	1.77962642	-0.00037358
		+ 20 (Ref)	1.77989501	-0.00010499
		+ 30	1.77918499	-0.00081501
		+ 40	1.77931137	-0.00068863
		+ 50	1.77956347	-0.00043653
Battery Endpoint	3.40	+ 20	1.77986856	-0.00013144

Table 7-121. NR Band n66 Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 346 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

NR Band n70

Operating Band Lower Boundary (GHz)		1.695		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.69520586	-0.00020586
		- 20	1.69547670	-0.00047670
		- 10	1.69532509	-0.00032509
		0	1.69538006	-0.00038006
		+ 10	1.69581957	-0.00081957
		+ 20 (Ref)	1.69559191	-0.00059191
		+ 30	1.69592235	-0.00092235
		+ 40	1.69560773	-0.00060773
		+ 50	1.69575407	-0.00075407
Battery Endpoint	3.40	+ 20	1.69589717	-0.00089717

Table 7-122. NR Band n70 Lower Boundary Frequency Stability Data

NR Band n70

Operating Band Upper Boundary (GHz)		1.710		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.70938919	-0.00061081
		- 20	1.70900899	-0.00099101
		- 10	1.70911185	-0.00088815
		0	1.70908913	-0.00091087
		+ 10	1.70909721	-0.00090279
		+ 20 (Ref)	1.70973884	-0.00026116
		+ 30	1.70911999	-0.00088001
		+ 40	1.70992283	-0.00007717
		+ 50	1.70949947	-0.00050053
Battery Endpoint	3.40	+ 20	1.70969416	-0.00030584

Table 7-123. NR Band n70 Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 347 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

NR Band n71

Operating Band Lower Boundary (GHz)		0.663		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.66357166	-0.00057166
		- 20	0.66357016	-0.00057016
		- 10	0.66356536	-0.00056536
		0	0.66356566	-0.00056566
		+ 10	0.66355759	-0.00055759
		+ 20 (Ref)	0.66355242	-0.00055242
		+ 30	0.66356326	-0.00056326
		+ 40	0.66356608	-0.00056608
		+ 50	0.66356148	-0.00056148
Battery Endpoint	3.40	+ 20	0.66356003	-0.00056003

Table 7-124. NR Band n71 Lower Boundary Frequency Stability Data

NR Band n71

Operating Band Upper Boundary (GHz)		0.698		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69743975	-0.00056025
		- 20	0.69743169	-0.00056831
		- 10	0.69743907	-0.00056093
		0	0.69743413	-0.00056587
		+ 10	0.69743496	-0.00056504
		+ 20 (Ref)	0.69743638	-0.00056362
		+ 30	0.69743246	-0.00056754
		+ 40	0.69742965	-0.00057035
		+ 50	0.69742505	-0.00057495
Battery Endpoint	3.40	+ 20	0.69742253	-0.00057747

Table 7-125. NR Band n71 Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 348 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

NR Band n12

Operating Band Lower Boundary (GHz)		0.699		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69944128	-0.00044128
		- 20	0.69944916	-0.00044916
		- 10	0.69943572	-0.00043572
		0	0.69943643	-0.00043643
		+ 10	0.69943702	-0.00043702
		+ 20 (Ref)	0.69943726	-0.00043726
		+ 30	0.69943313	-0.00043313
		+ 40	0.69943850	-0.00043850
		+ 50	0.69943049	-0.00043049
Battery Endpoint	3.40	+ 20	0.69943791	-0.00043791

Table 7-126. NR Band n12 Lower Boundary Frequency Stability Data

NR Band n12

Operating Band Upper Boundary (GHz)		0.716		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.71553718	-0.00046282
		- 20	0.71553473	-0.00046528
		- 10	0.71554139	-0.00045861
		0	0.71553525	-0.00046475
		+ 10	0.71553835	-0.00046165
		+ 20 (Ref)	0.71553566	-0.00046434
		+ 30	0.71554722	-0.00045278
		+ 40	0.71553904	-0.00046096
		+ 50	0.71553845	-0.00046155
Battery Endpoint	3.40	+ 20	0.71554276	-0.00045724

Table 7-127. NR Band n12 Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 349 of 351

V2.2 09/07/2023

Frequency Stability / Temperature Variation

WCDMA AWS

Operating Band Lower Boundary (GHz)		1.710		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.71053900	-0.00053900
		- 20	1.71004077	-0.00004077
		- 10	1.71048101	-0.00048101
		0	1.71021063	-0.00021063
		+ 10	1.71065573	-0.00065573
		+ 20 (Ref)	1.71097173	-0.00097173
		+ 30	1.71050291	-0.00050291
		+ 40	1.71087395	-0.00087395
		+ 50	1.71073341	-0.00073341
Battery Endpoint	3.40	+ 20	1.71035418	-0.00035418

Table 7-128. WCDMA AWS Lower Boundary Frequency Stability Data

WCDMA AWS

Operating Band Upper Boundary (GHz)		1.755		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.75456365	-0.00043635
		- 20	1.75437304	-0.00062696
		- 10	1.75439273	-0.00060727
		0	1.75450876	-0.00049124
		+ 10	1.75477139	-0.00022861
		+ 20 (Ref)	1.75417011	-0.00082989
		+ 30	1.75410910	-0.00089090
		+ 40	1.75413483	-0.00086517
		+ 50	1.75452468	-0.00047532
Battery Endpoint	3.40	+ 20	1.75431574	-0.00068426

Table 7-129. WCDMA AWS Upper Boundary Frequency Stability Data

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 350 of 351

V2.2 09/07/2023

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA2995** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2995	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 351 of 351

V2.2 09/07/2023