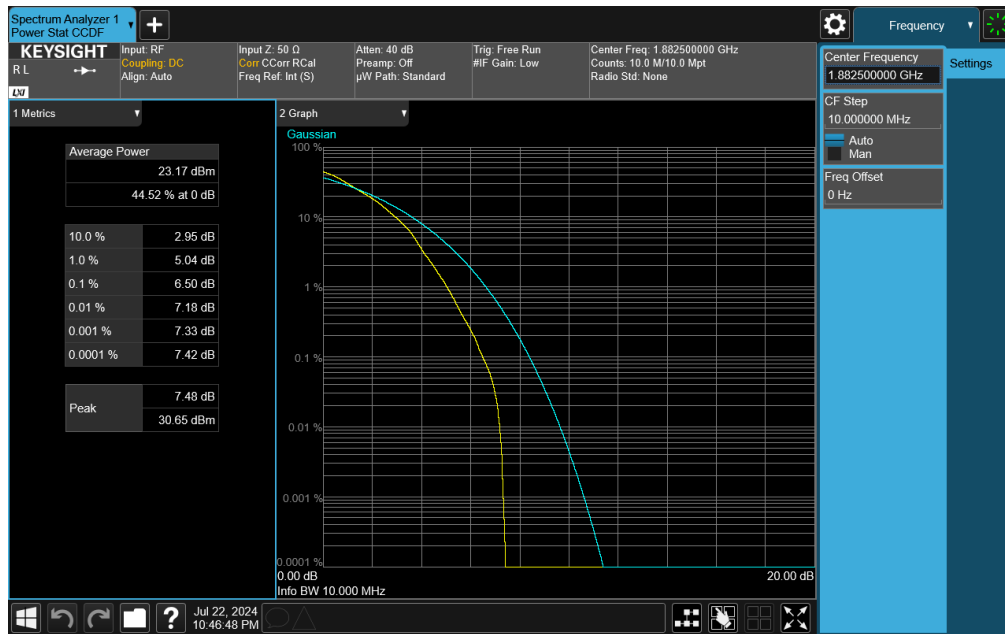
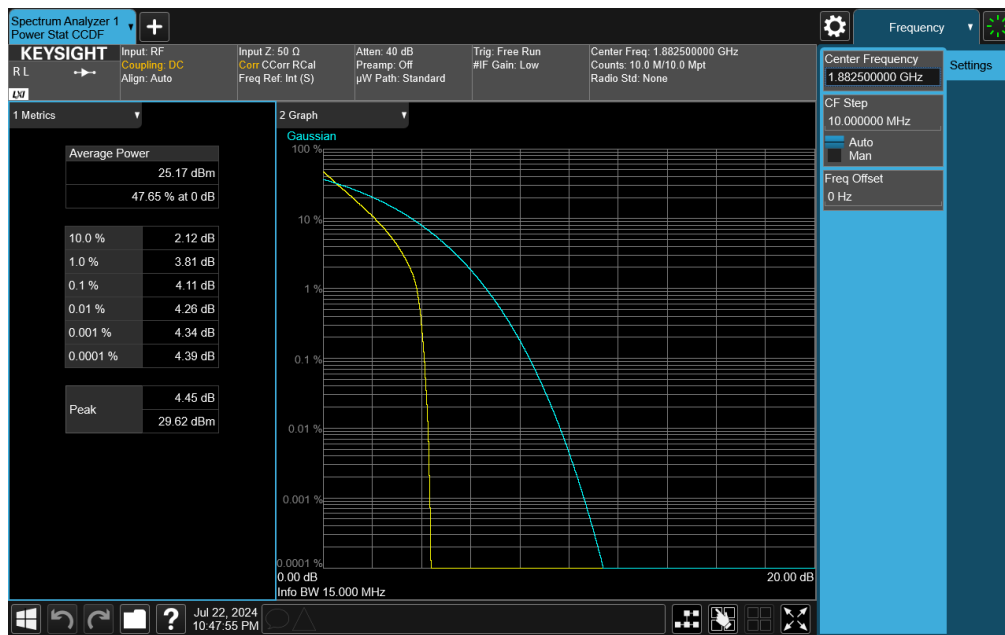




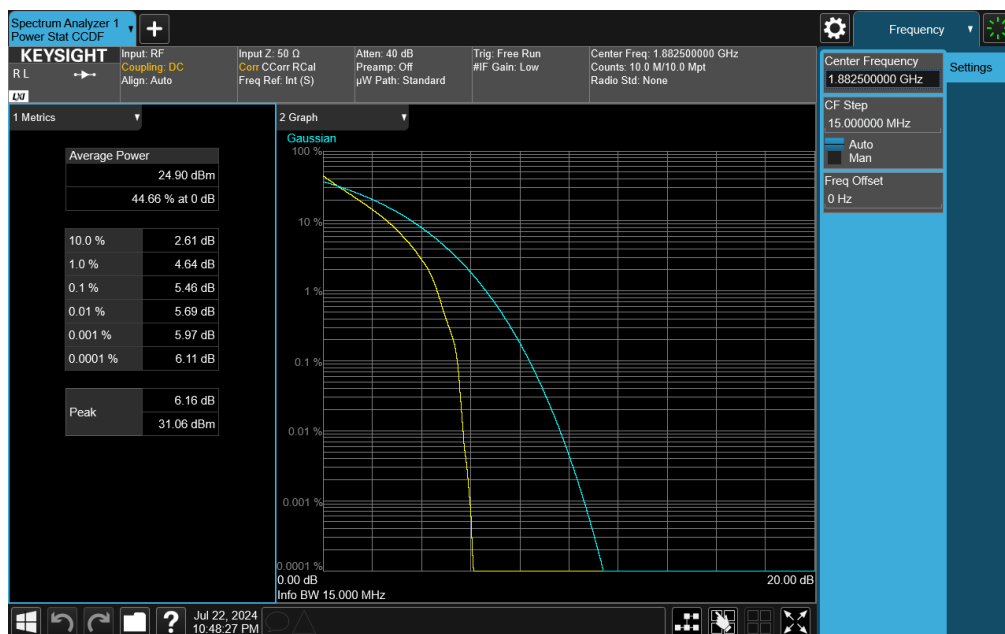
a
Plot 7-250. PAR Plot (NR Band n25 - 10MHz DFT-s-OFDM 256-QAM - Full RB)



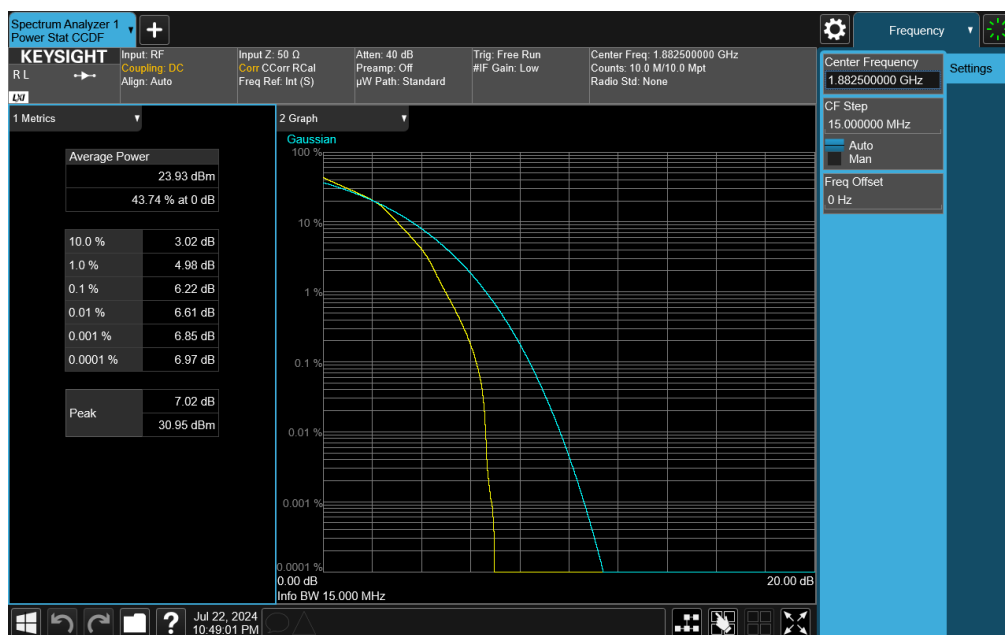
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 147 of 219

V2.2 09/07/2023

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Plot 7-252. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM QPSK - Full RB)

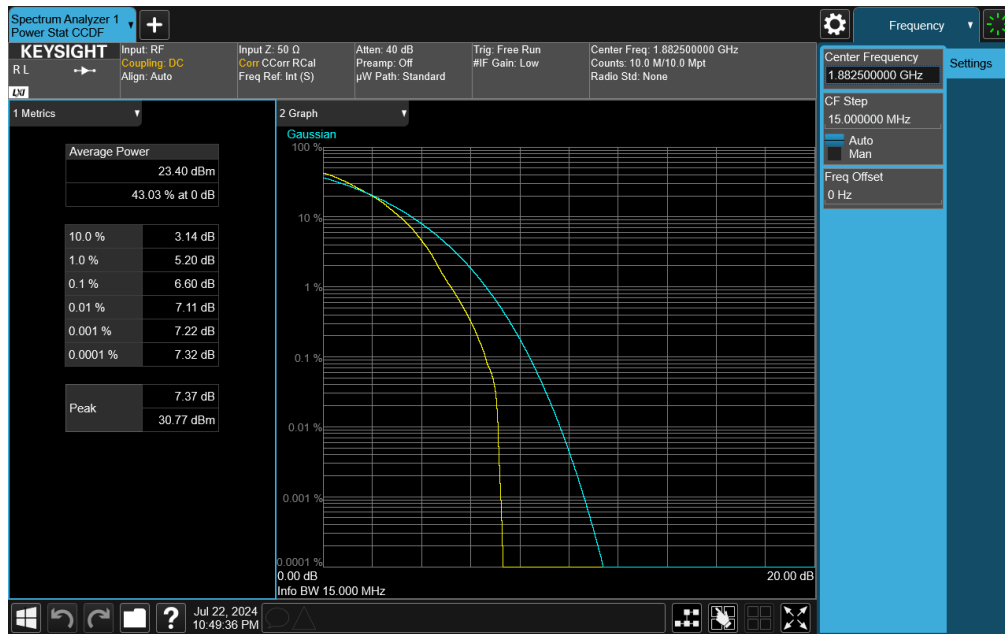


Plot 7-253. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM 16-QAM - Full RB)

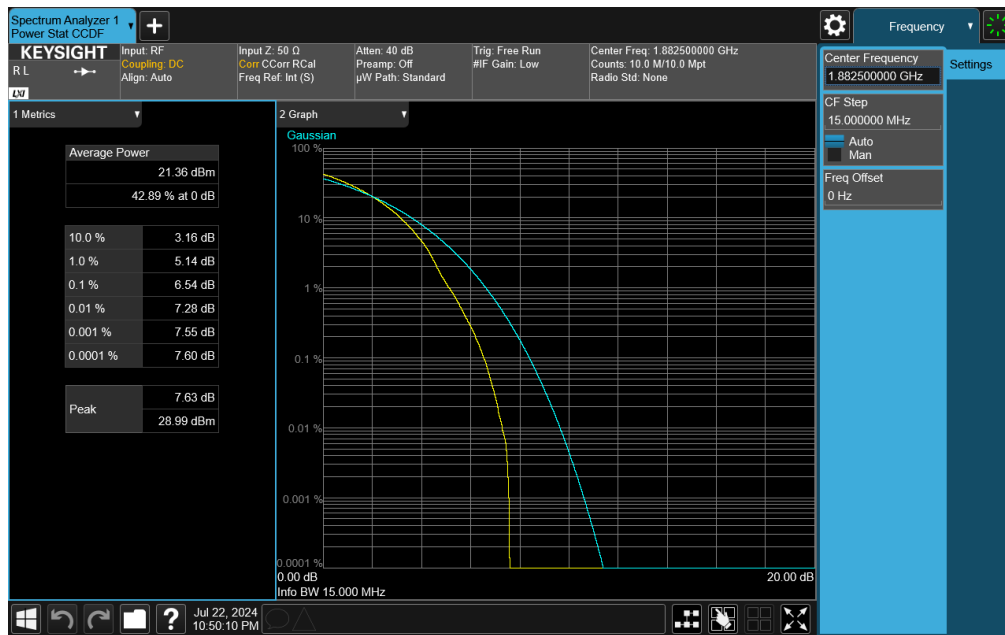
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 148 of 219

V2.2 09/07/2023

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Plot 7-254. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM 64-QAM - Full RB)

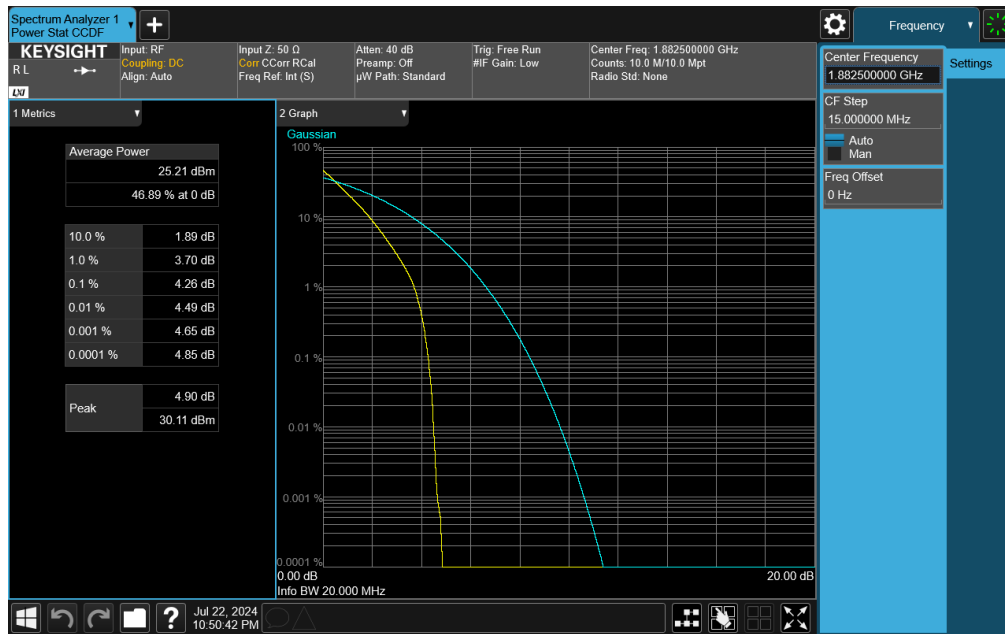


Plot 7-255. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM 256-QAM - Full RB)

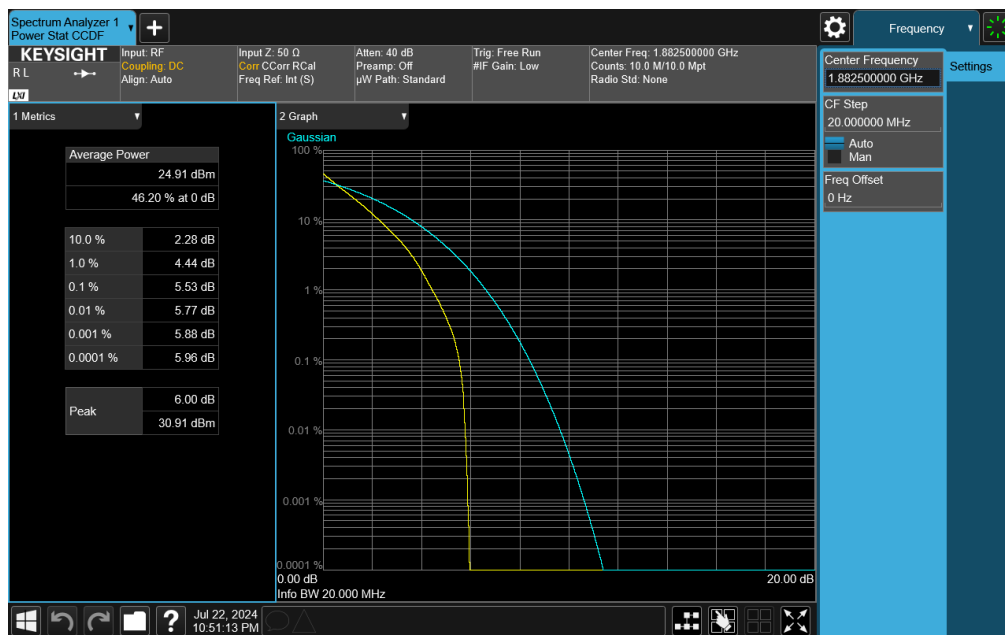
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 149 of 219

V2.2 09/07/2023

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Plot 7-256. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

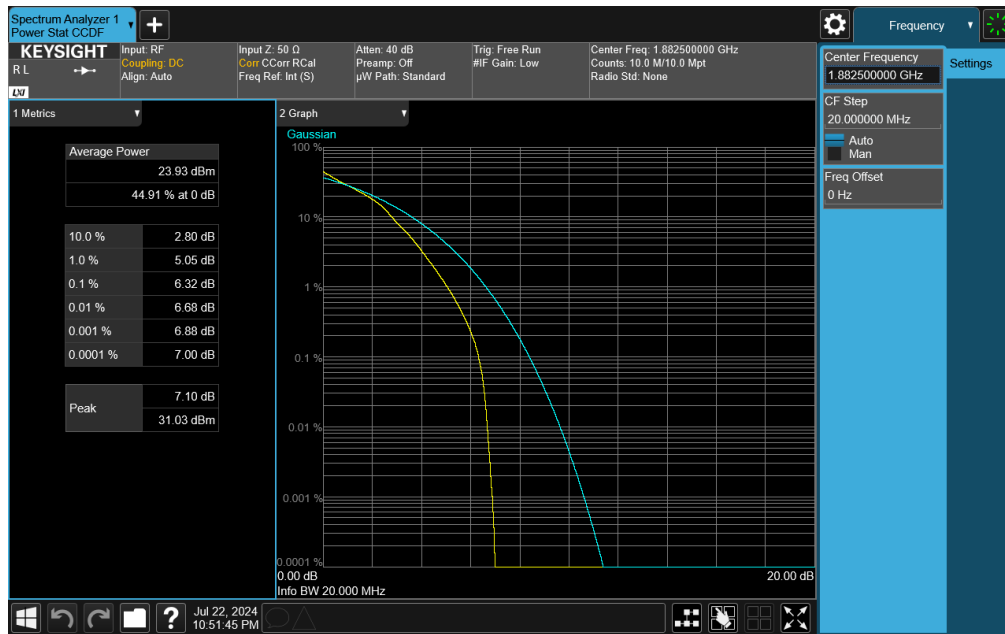


Plot 7-257. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM QPSK - Full RB)

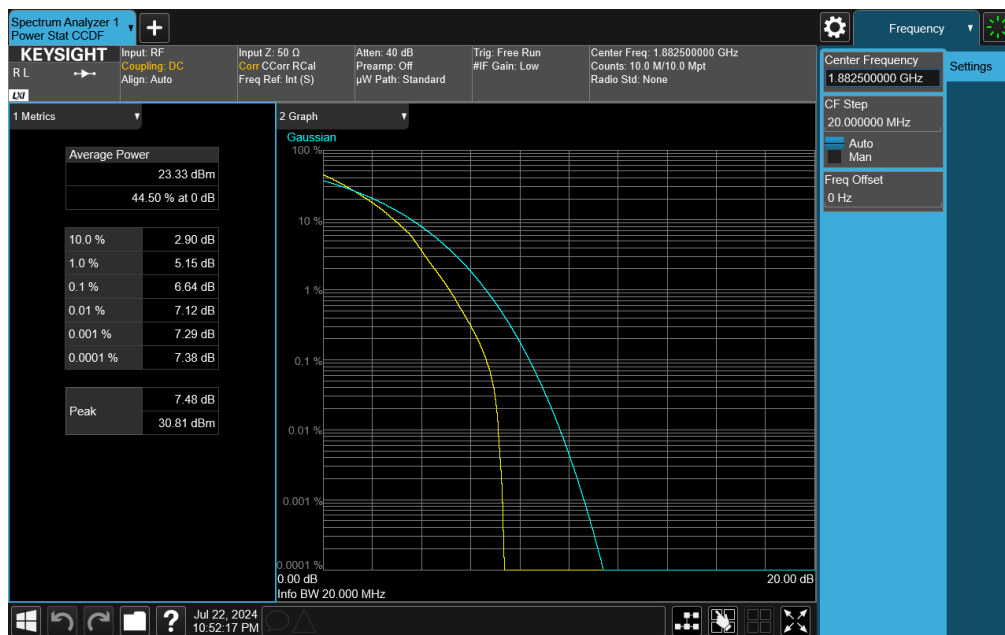
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 150 of 219

V2.2 09/07/2023

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Plot 7-258. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM 16-QAM - Full RB)

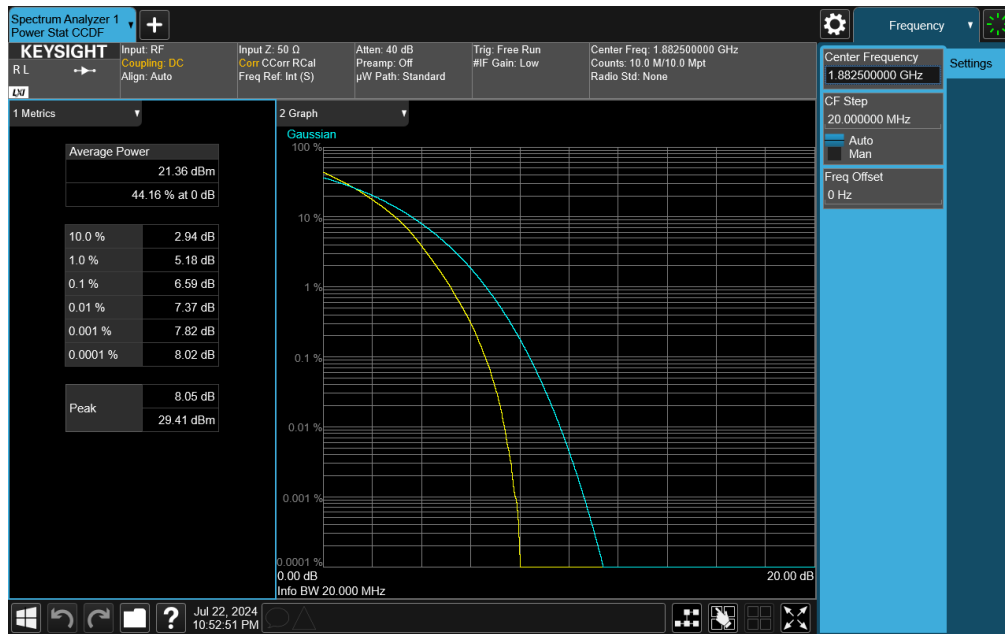


Plot 7-259. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM 64-QAM - Full RB)

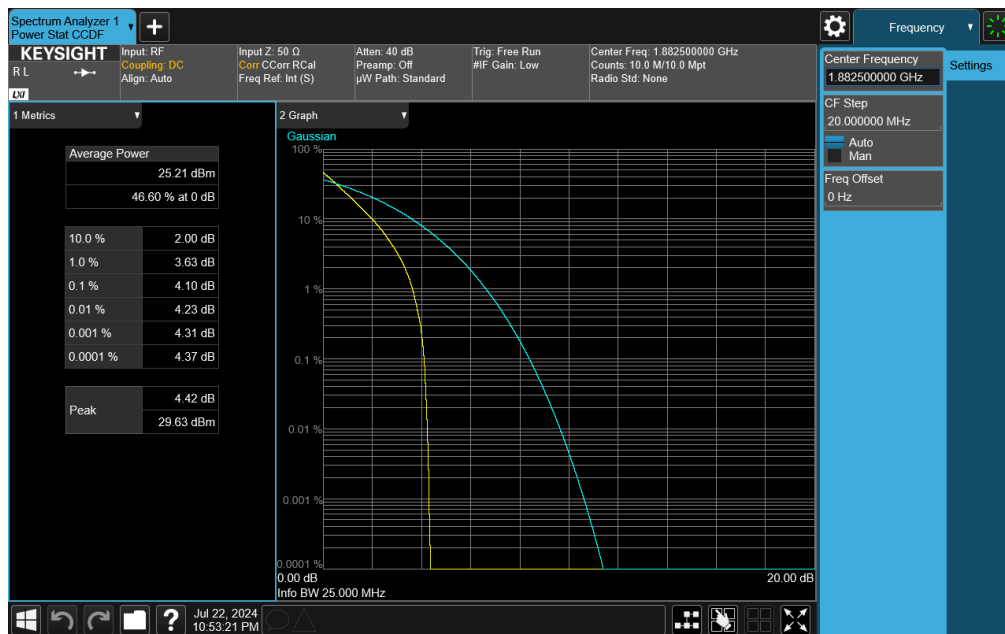
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 151 of 219

V2.2 09/07/2023

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Plot 7-260. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM 256-QAM - Full RB)

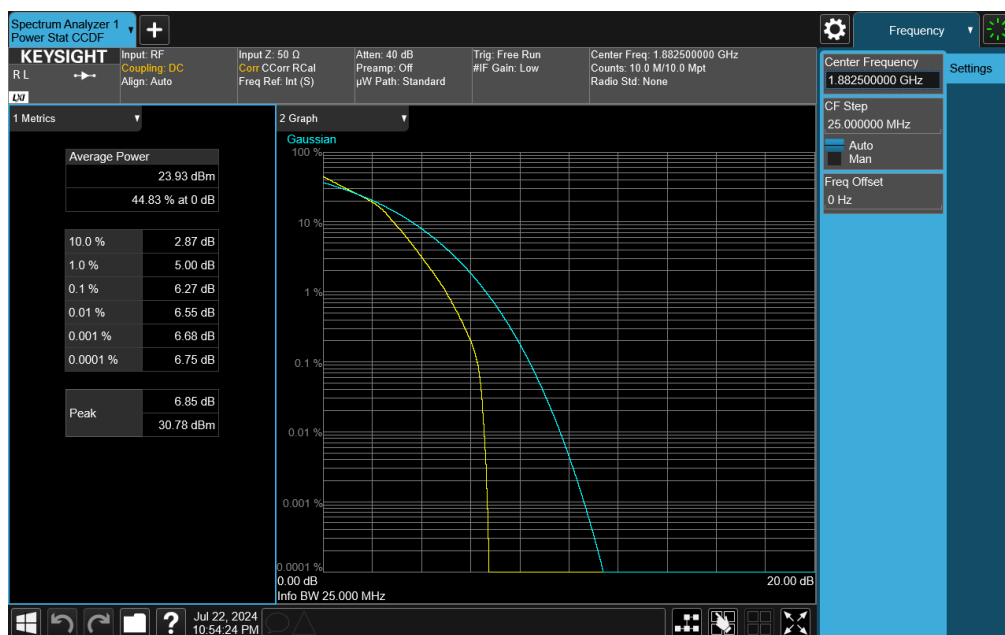
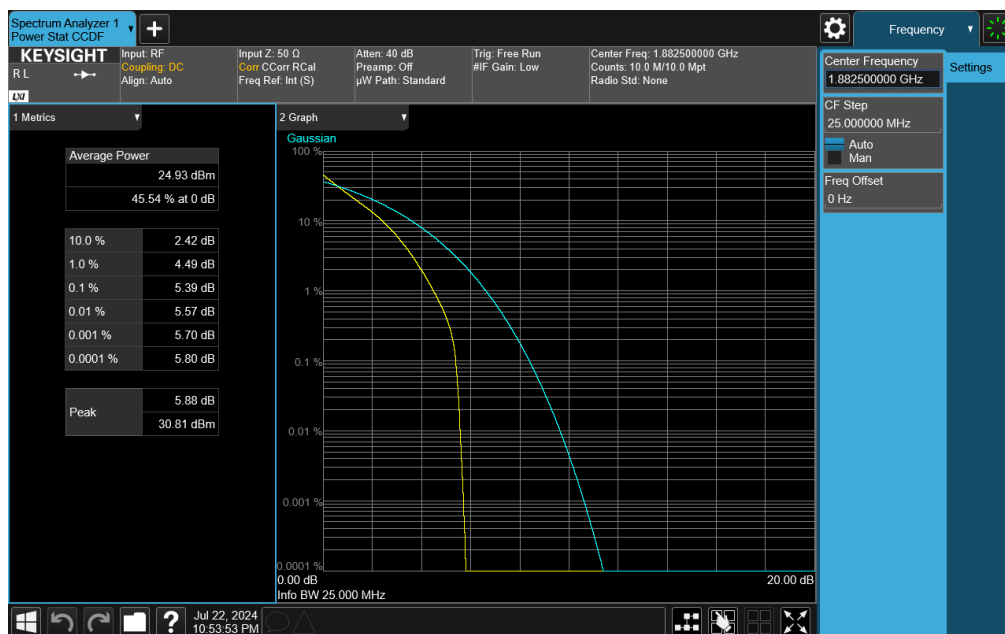


Plot 7-261. PAR Plot (NR Band n25 - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 152 of 219

V2.2 09/07/2023

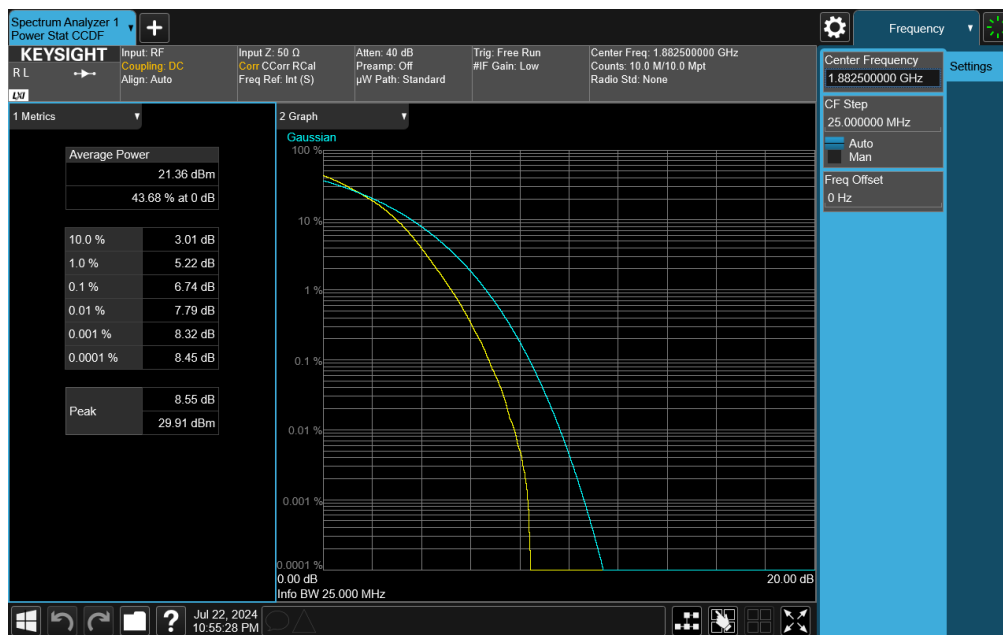
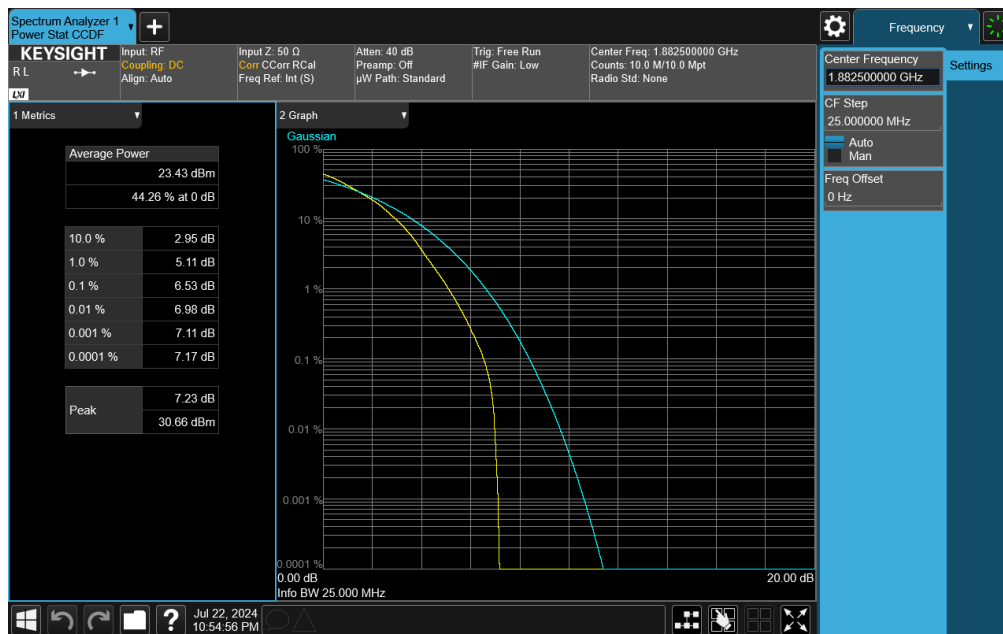
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FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 153 of 219

V2.2 09/07/2023

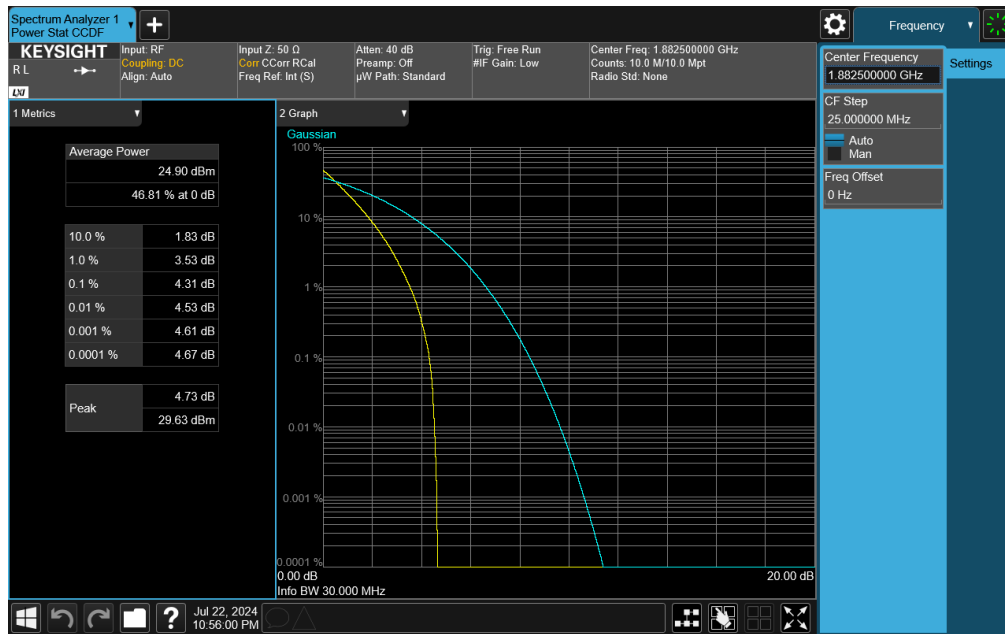
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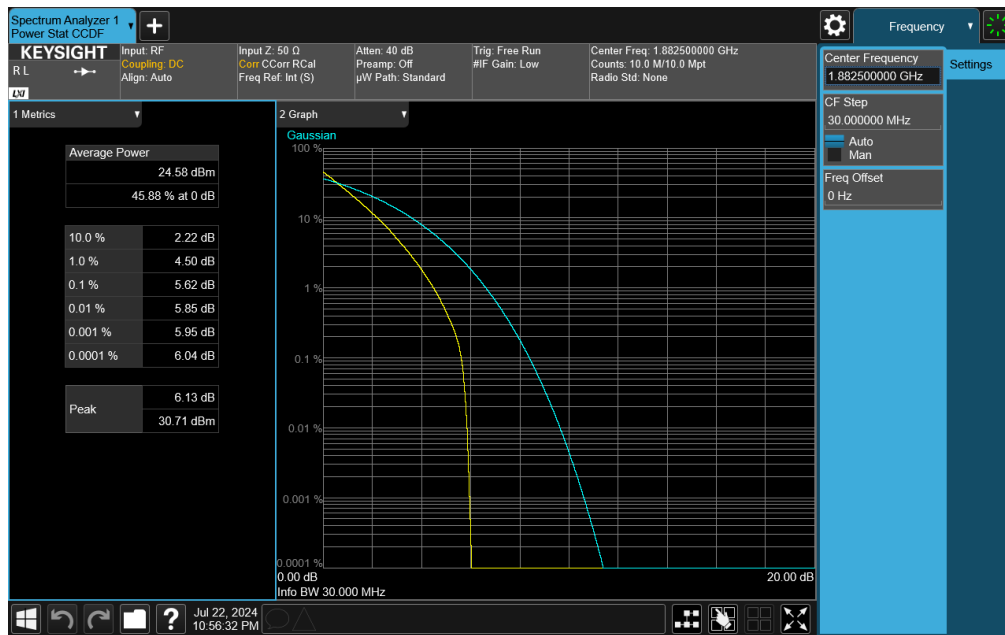
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 154 of 219

V2.2 09/07/2023

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Plot 7-266. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

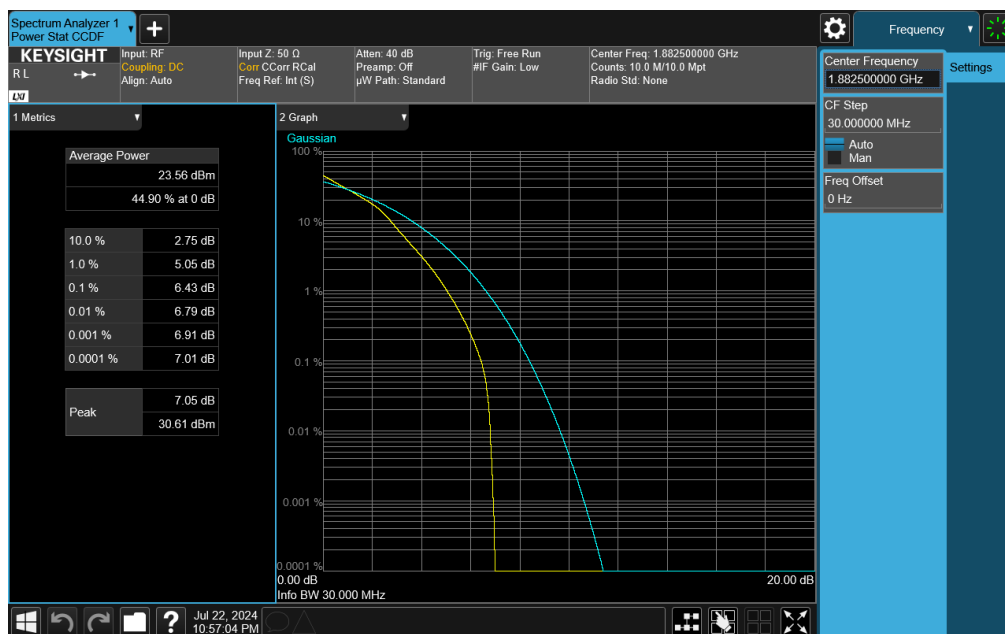


Plot 7-267. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM QPSK - Full RB)

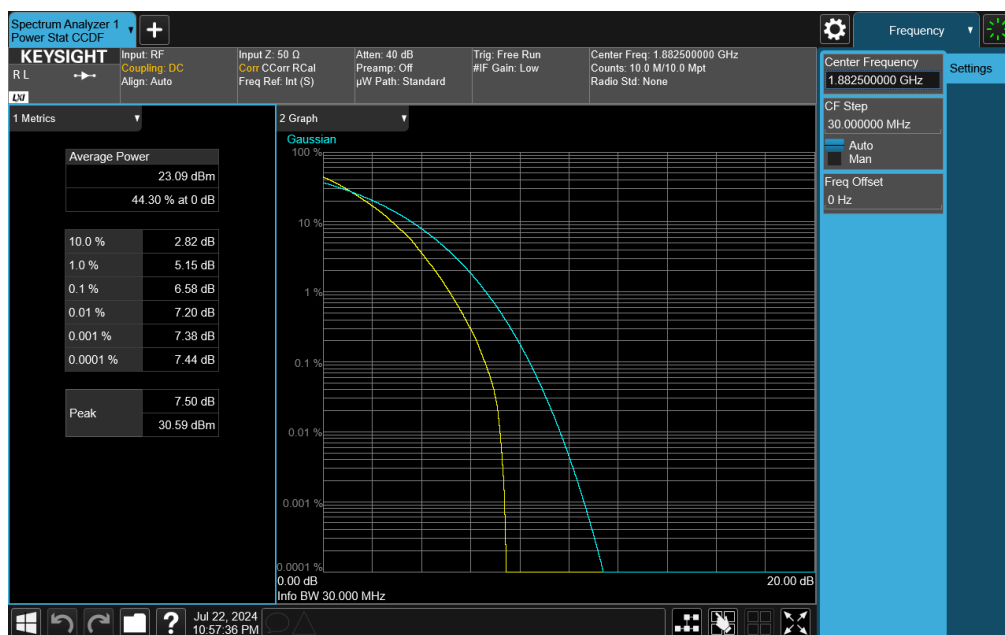
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 155 of 219

V2.2 09/07/2023

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Plot 7-268. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM 16-QAM - Full RB)

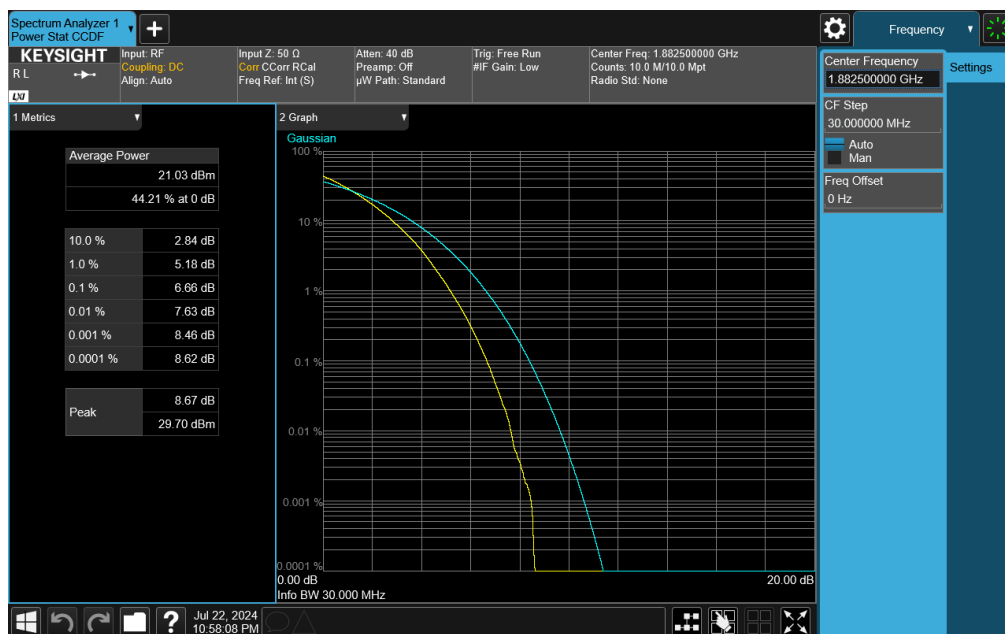


Plot 7-269. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM 64-QAM - Full RB)

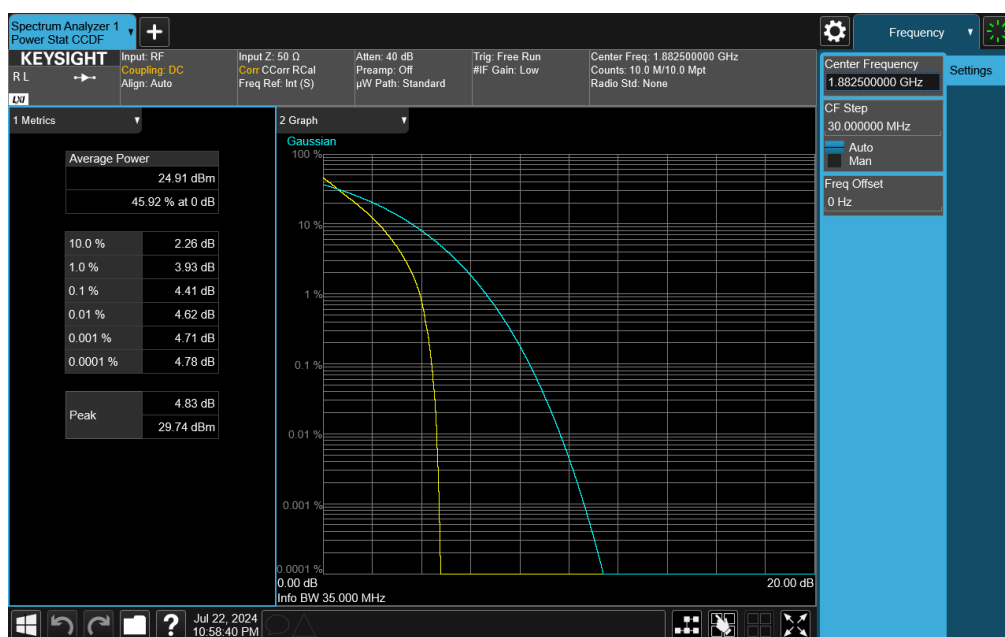
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 156 of 219

V2.2 09/07/2023

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Plot 7-270. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM 256-QAM - Full RB)

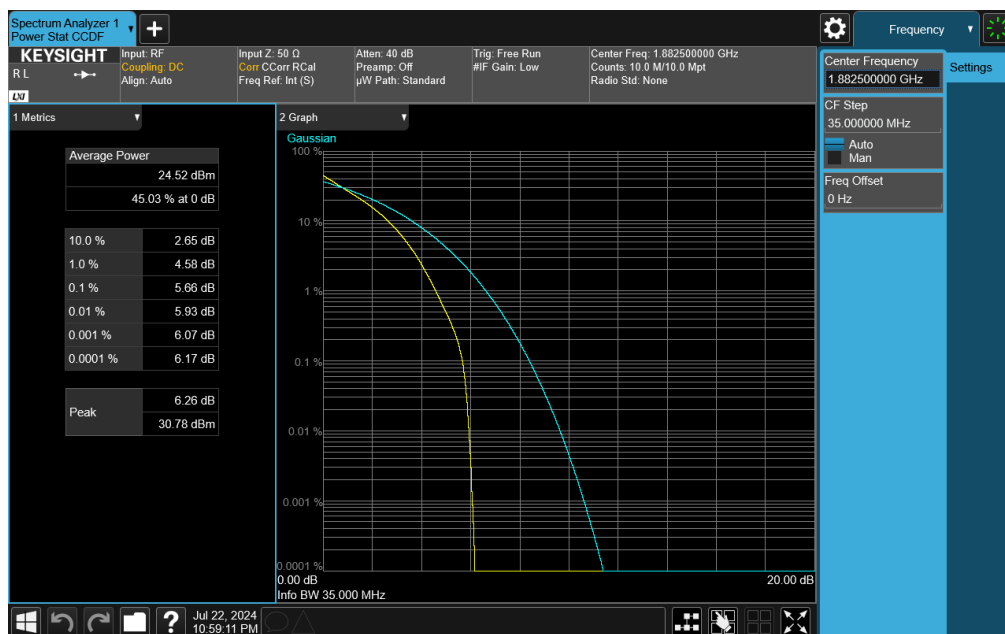


Plot 7-271. PAR Plot (NR Band n25 - 35MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

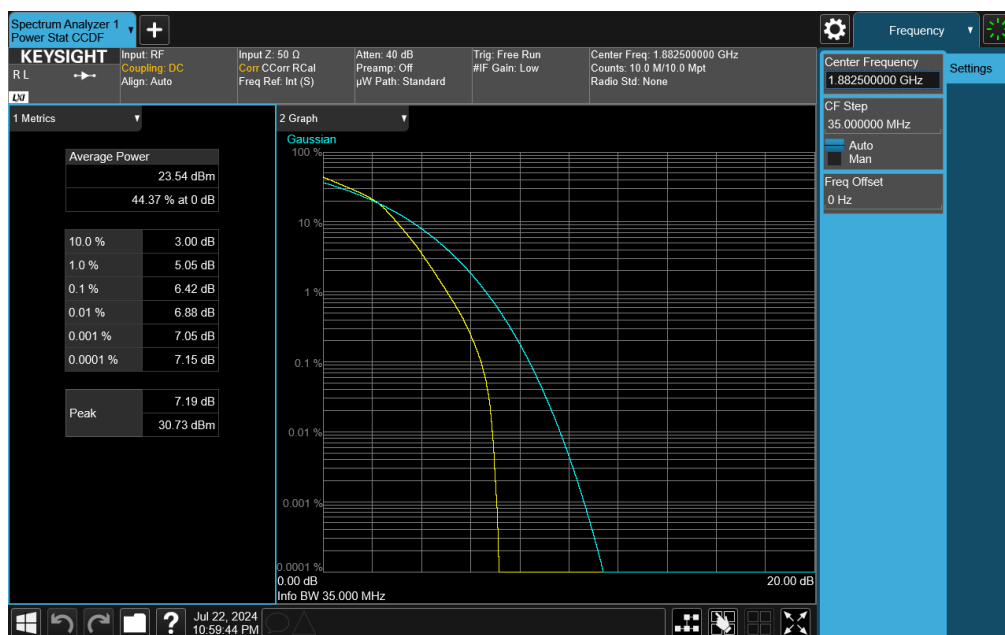
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 157 of 219

V2.2 09/07/2023

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Plot 7-272. PAR Plot (NR Band n25 - 35MHz DFT-s-OFDM QPSK - Full RB)

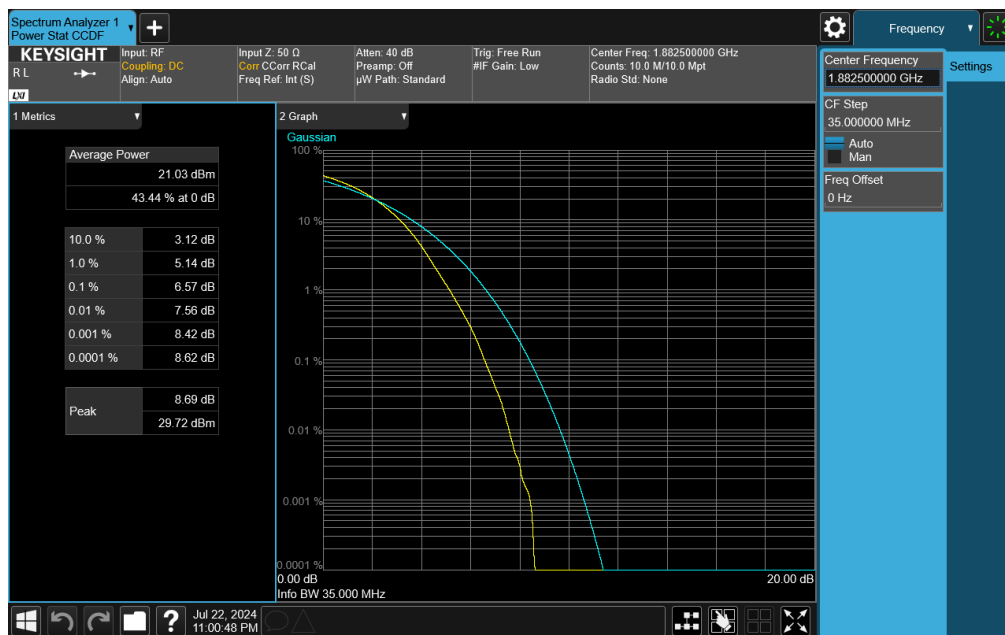
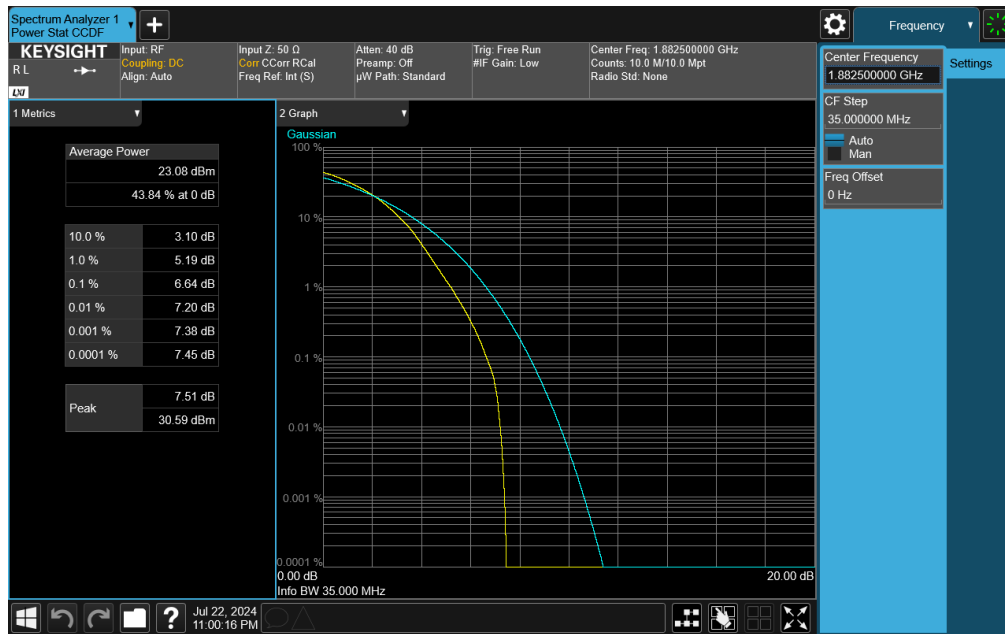


Plot 7-273. PAR Plot (NR Band n25 - 35MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 158 of 219

V2.2 09/07/2023

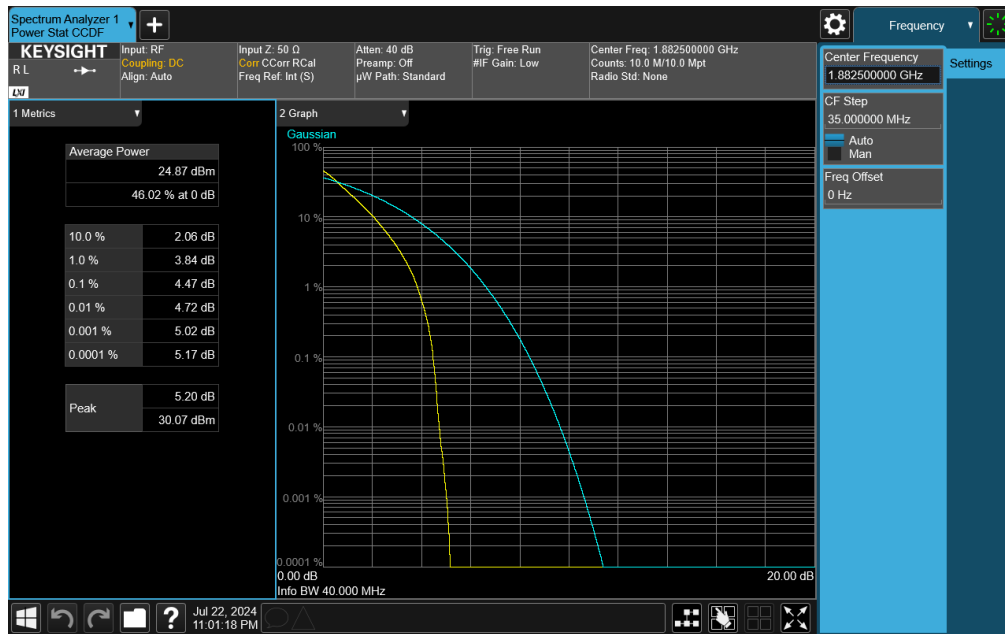
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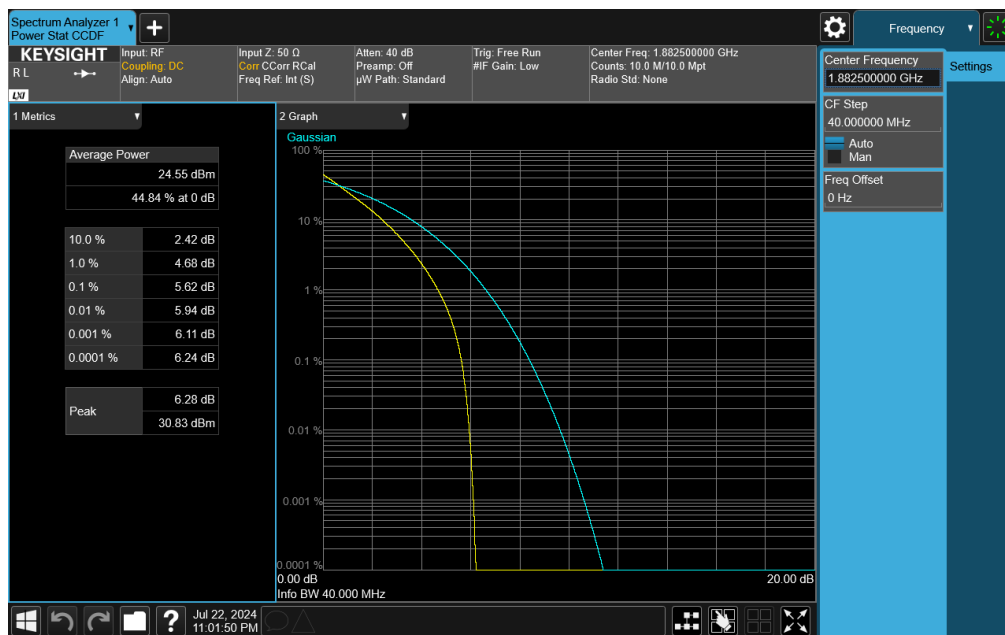
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 159 of 219

V2.2 09/07/2023

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Plot 7-276. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

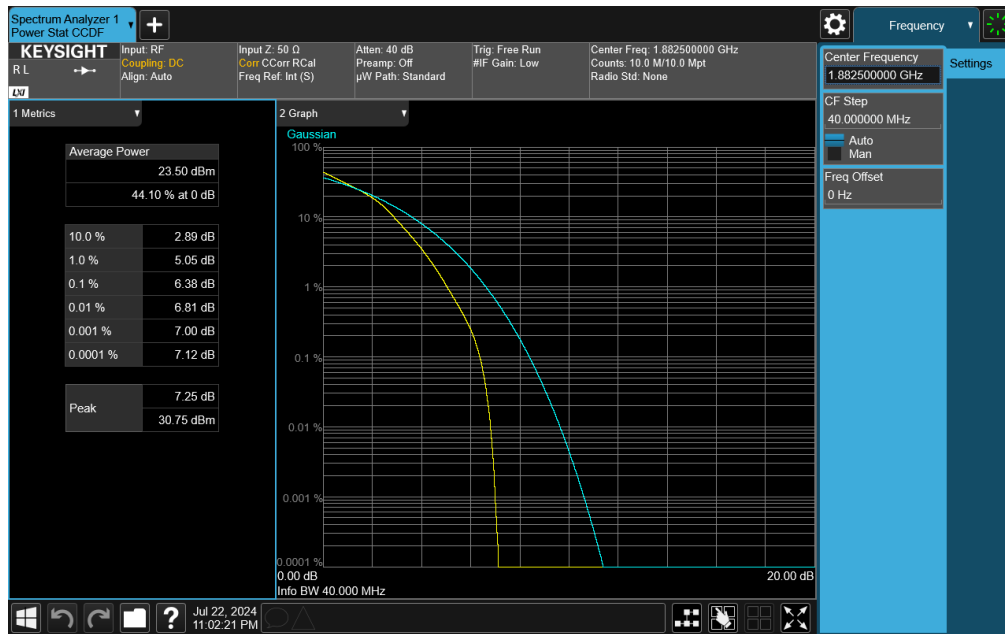


Plot 7-277. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM QPSK - Full RB)

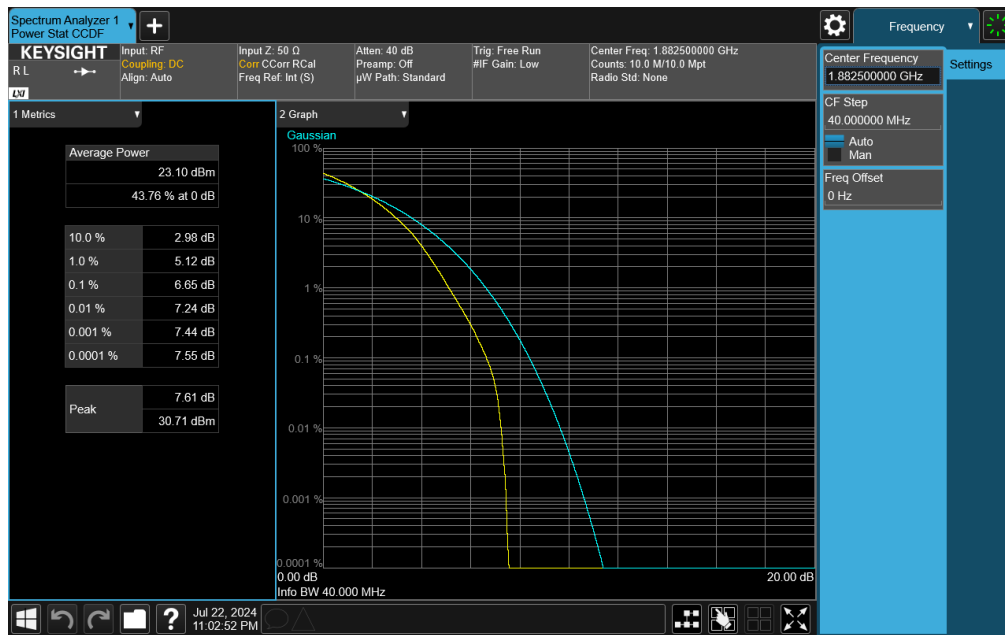
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 160 of 219

V2.2 09/07/2023

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Plot 7-278. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-279. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM 64-QAM - Full RB)

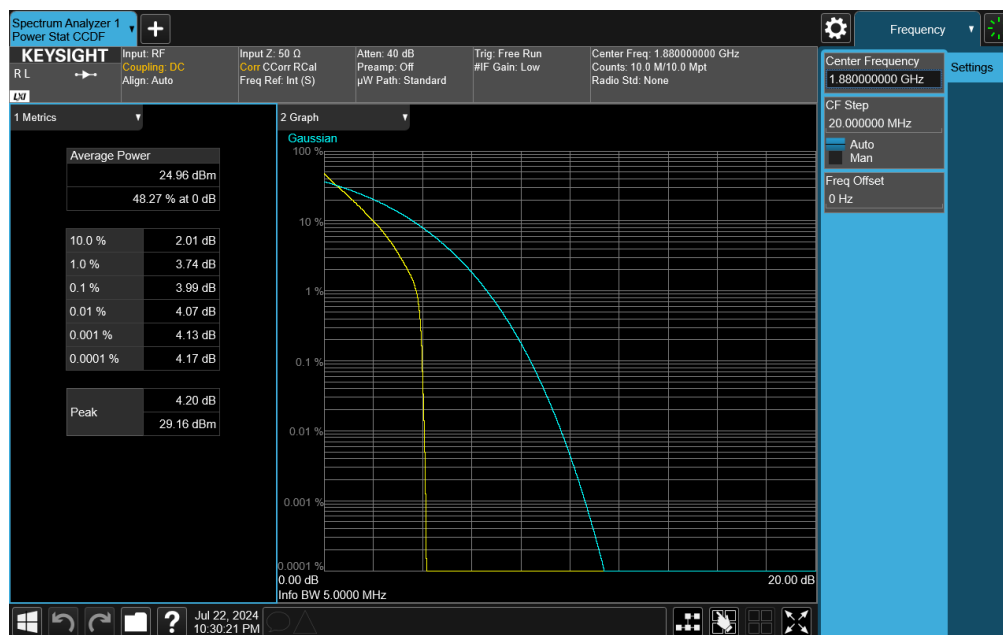
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 161 of 219

V2.2 09/07/2023

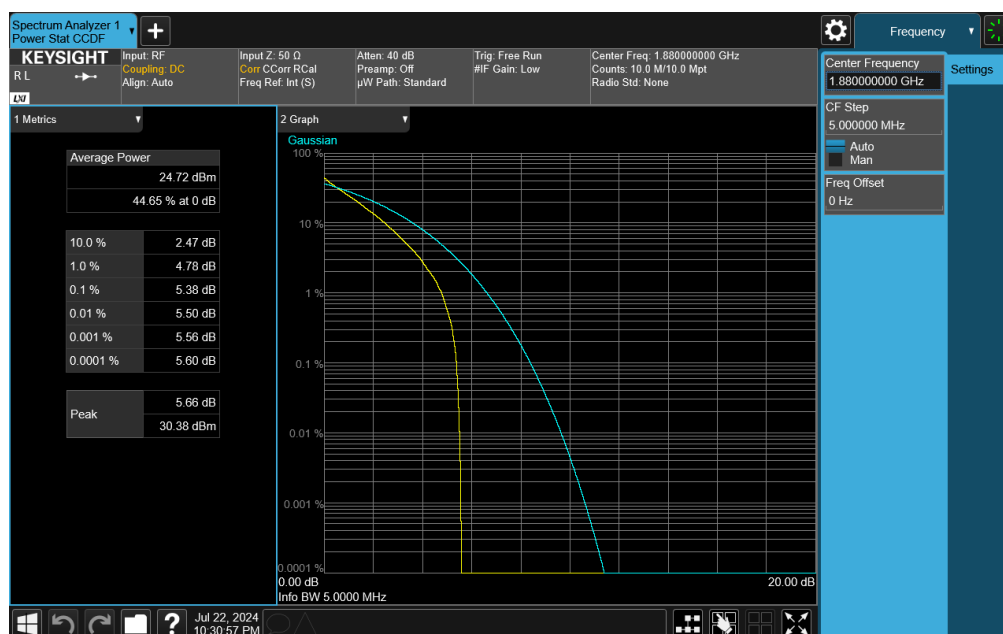
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NR Band n2



Plot 7-281. PAR Plot (NR Band n2 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

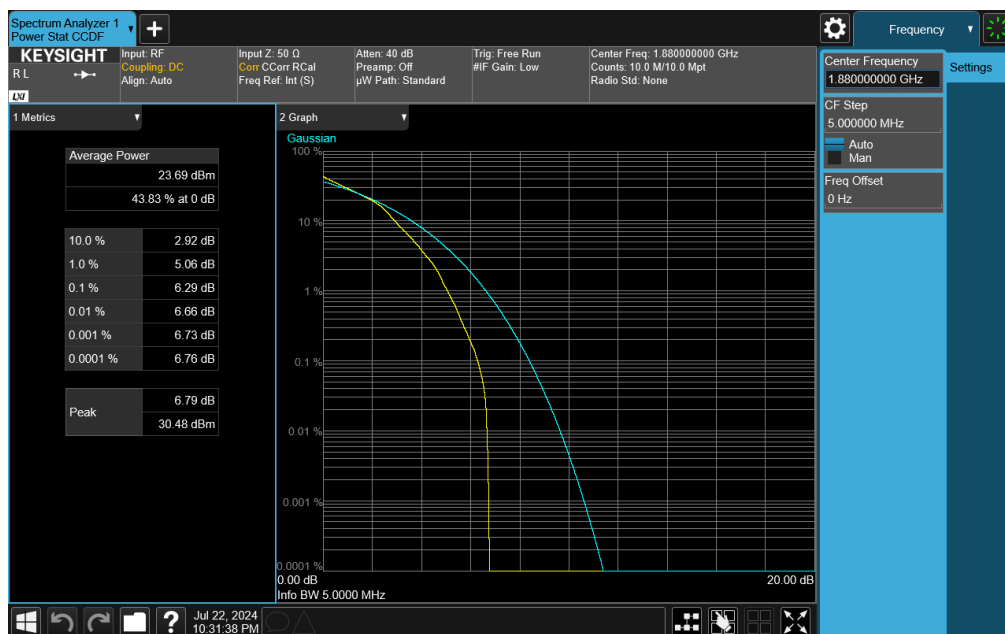


Plot 7-282. PAR Plot (NR Band n2 - 5MHz DFT-s-OFDM QPSK - Full RB)

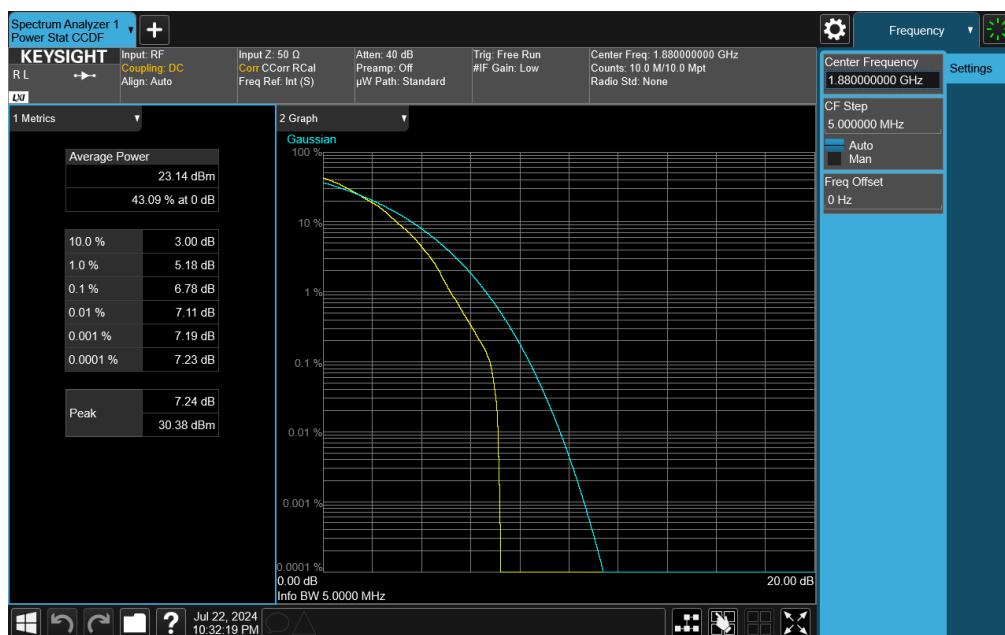
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 163 of 219

V2.2 09/07/2023

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Plot 7-283. PAR Plot (NR Band n2 - 5MHz DFT-s-OFDM 16-QAM - Full RB)

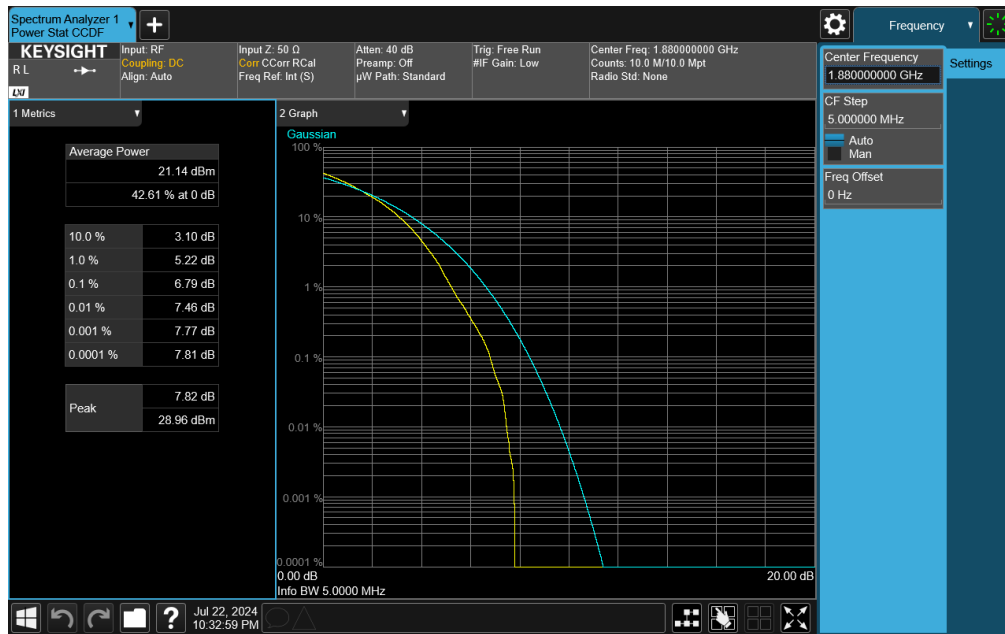


Plot 7-284. PAR Plot (NR Band n2 - 5MHz DFT-s-OFDM 64-QAM - Full RB)

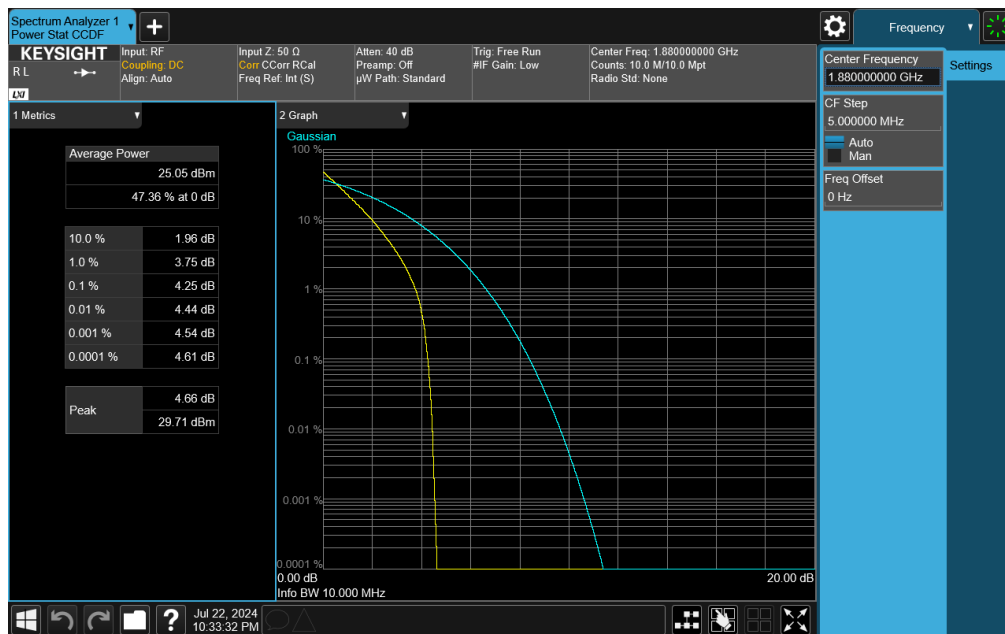
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 164 of 219

V2.2 09/07/2023

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Plot 7-285. PAR Plot (NR Band n2 - 5MHz DFT-s-OFDM 256-QAM - Full RB)

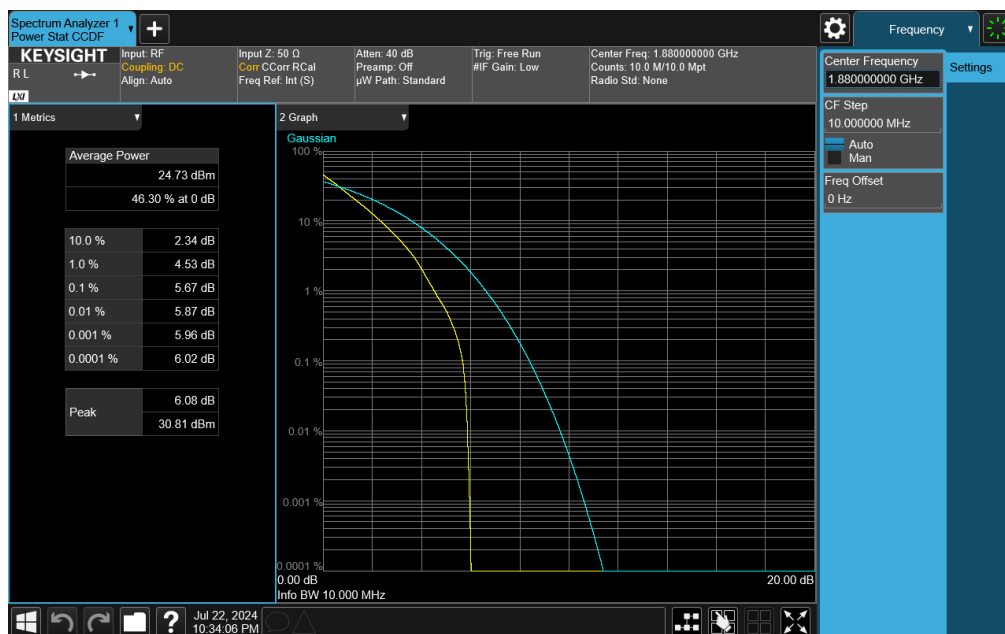


Plot 7-286. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

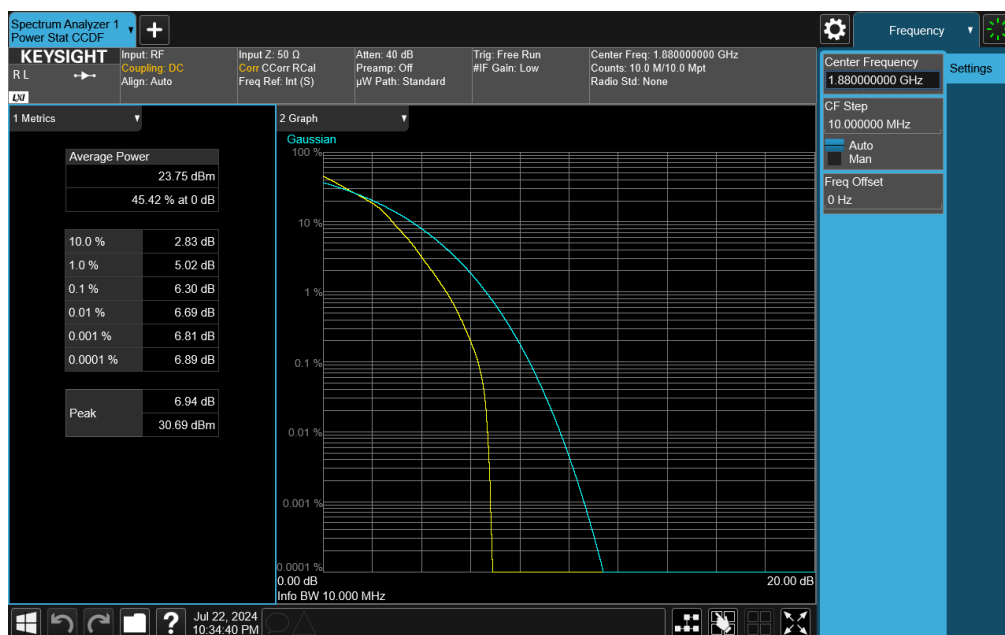
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 165 of 219

V2.2 09/07/2023

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Plot 7-287. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM QPSK - Full RB)

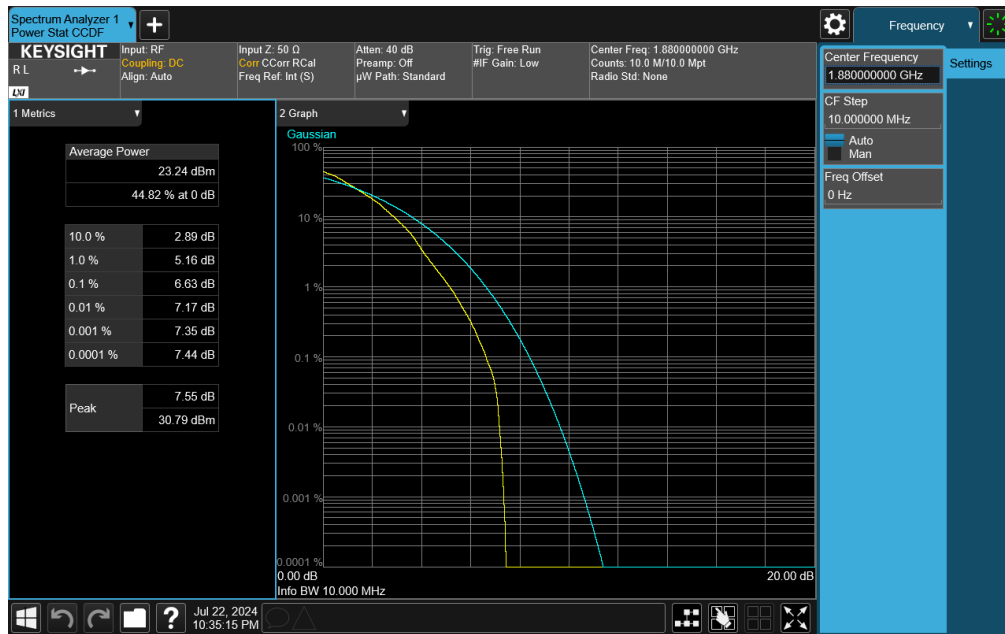


Plot 7-288. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM 16-QAM - Full RB)

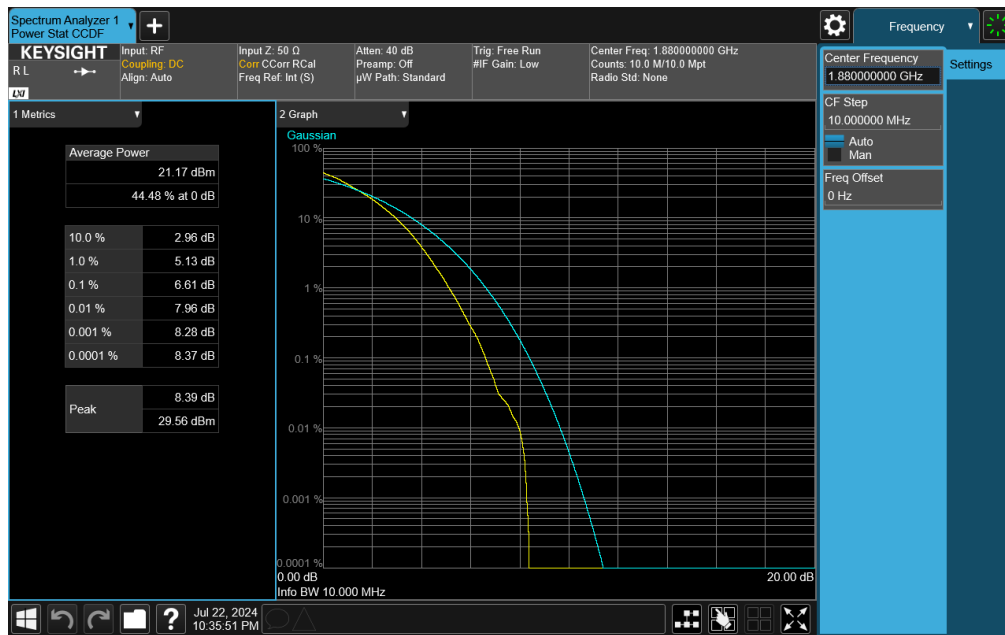
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 166 of 219

V2.2 09/07/2023

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Plot 7-289. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM 64-QAM - Full RB)

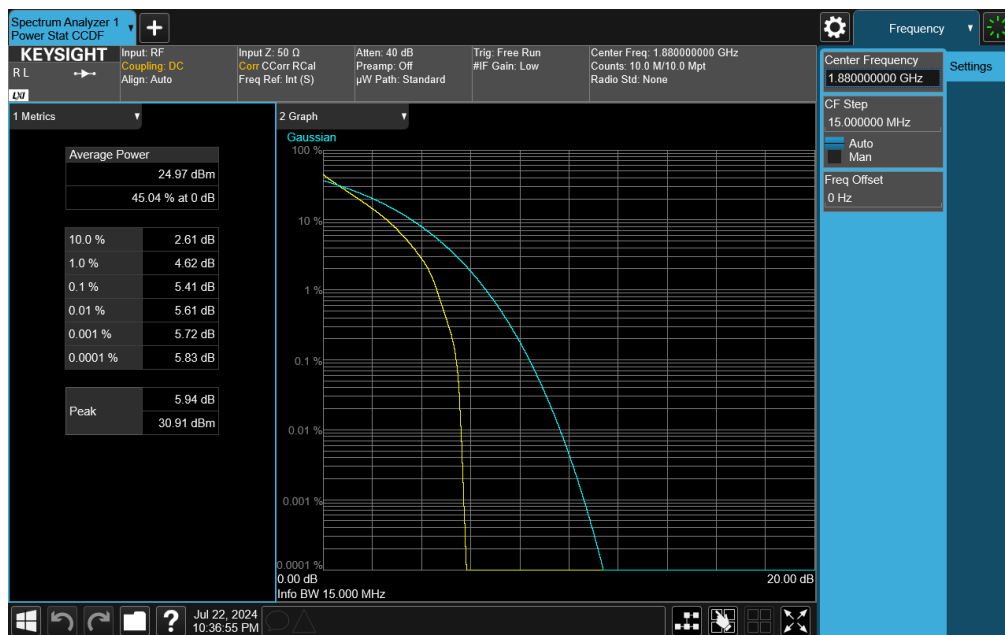
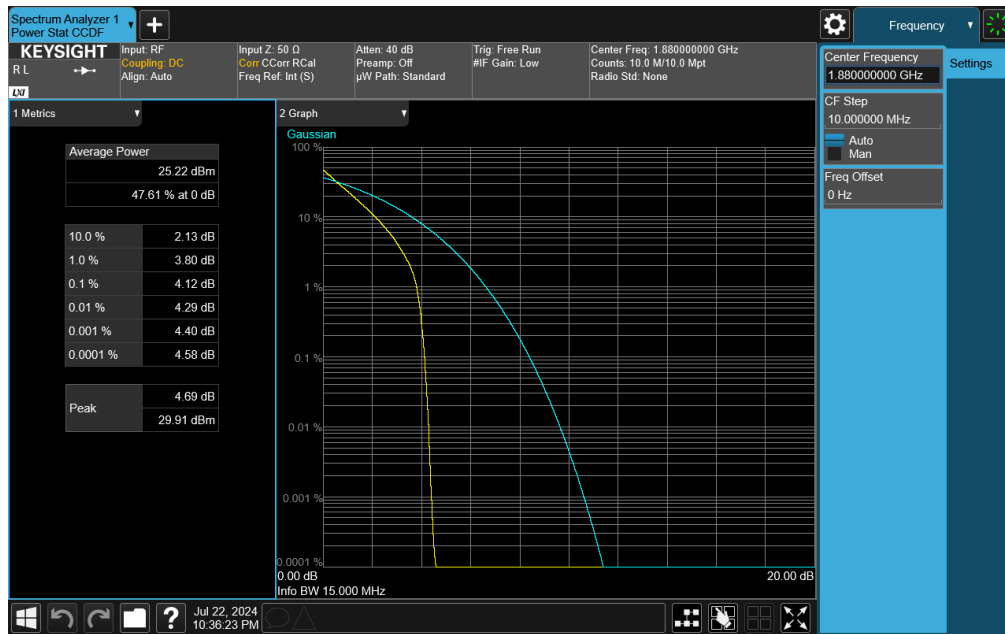


Plot 7-290. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 167 of 219

V2.2 09/07/2023

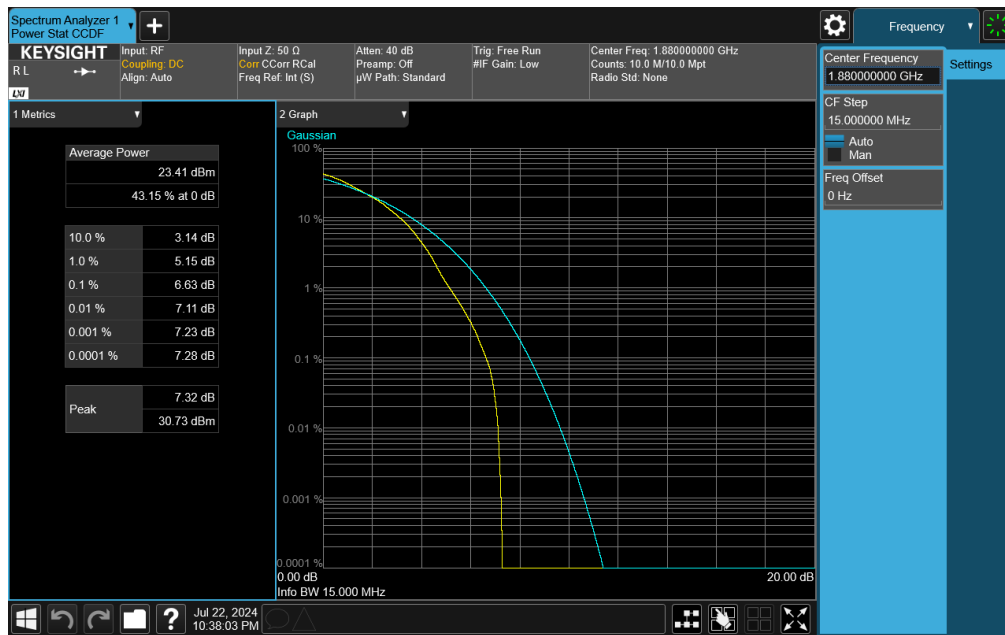
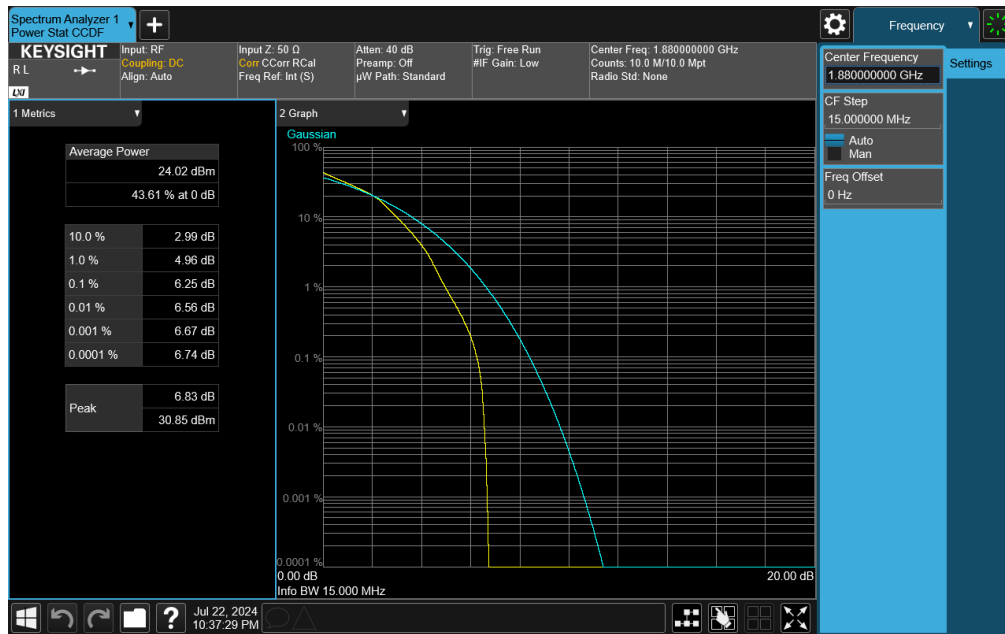
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FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 168 of 219

V2.2 09/07/2023

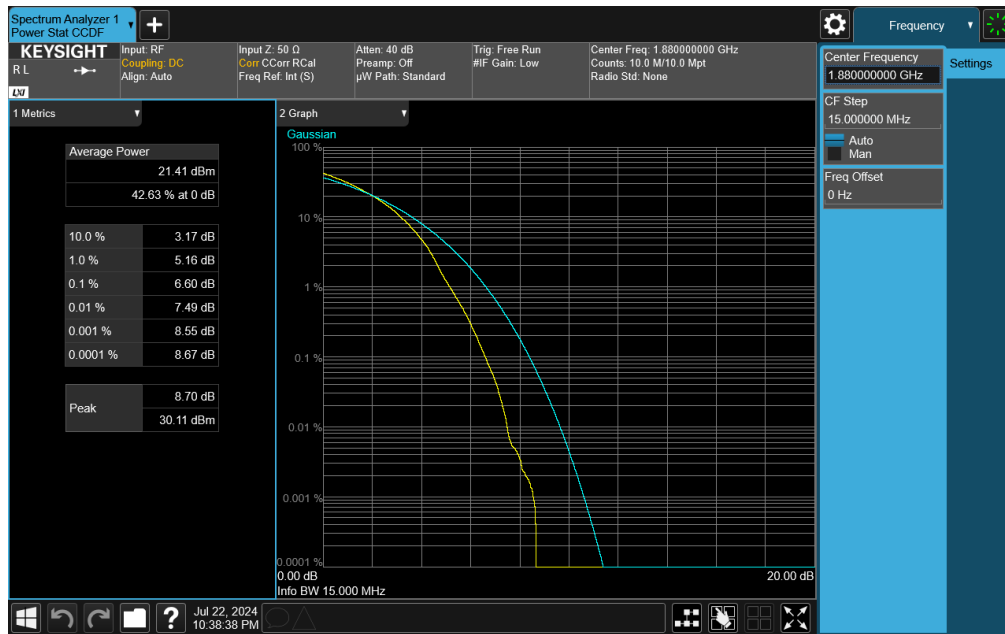
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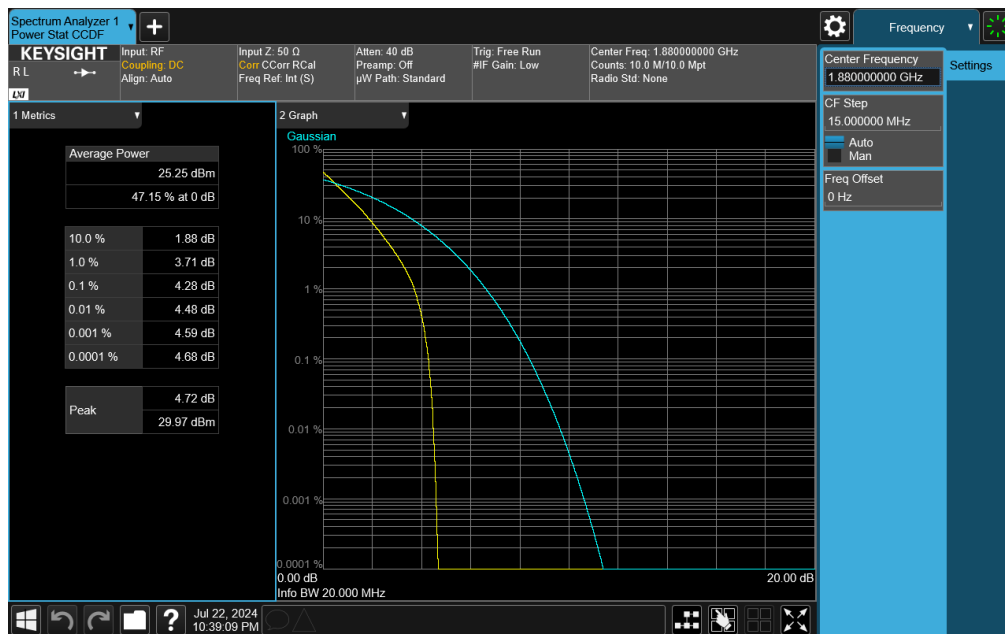
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 169 of 219

V2.2 09/07/2023

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Plot 7-295. PAR Plot (NR Band n2 - 15MHz DFT-s-OFDM 256-QAM - Full RB)

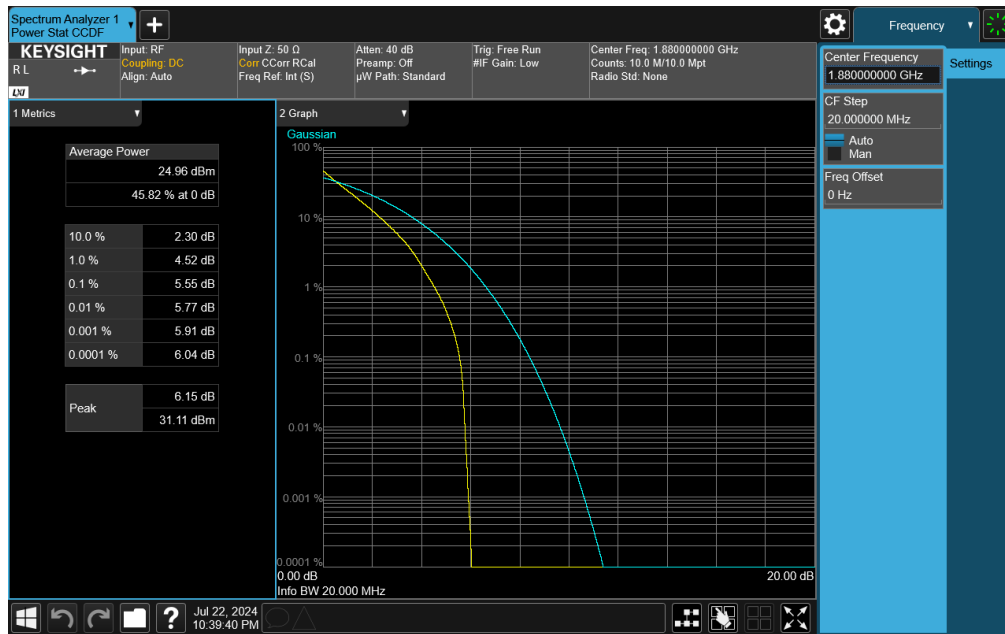


Plot 7-296. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

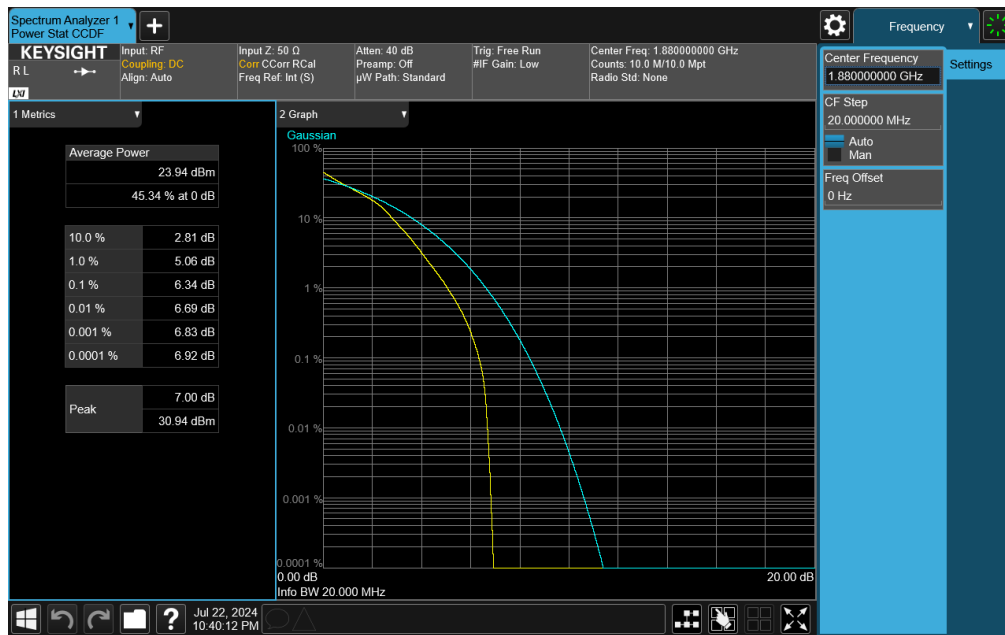
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 170 of 219

V2.2 09/07/2023

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Plot 7-297. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM QPSK - Full RB)

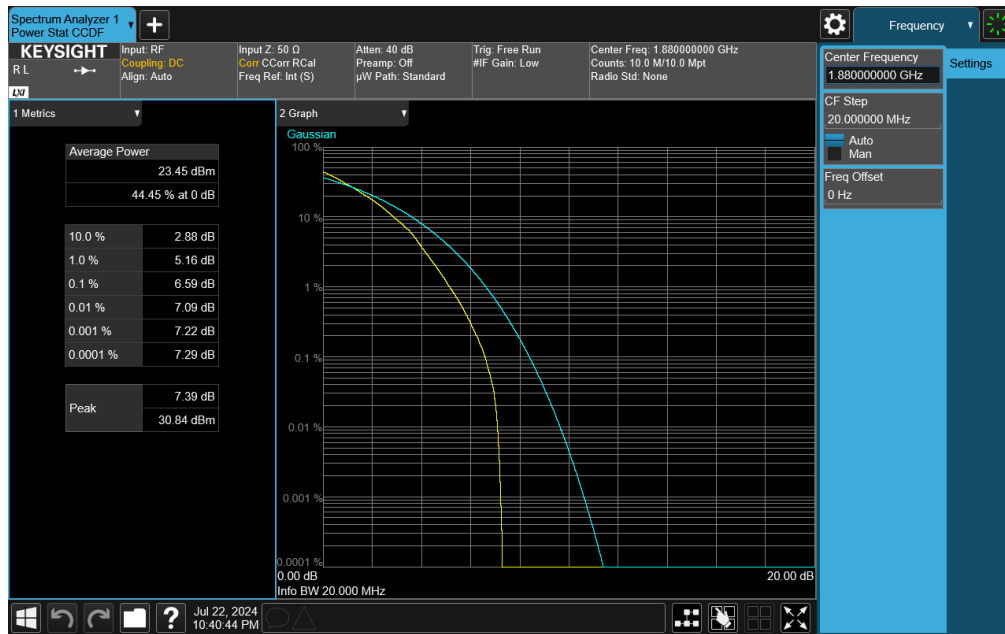


Plot 7-298. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 16-QAM - Full RB)

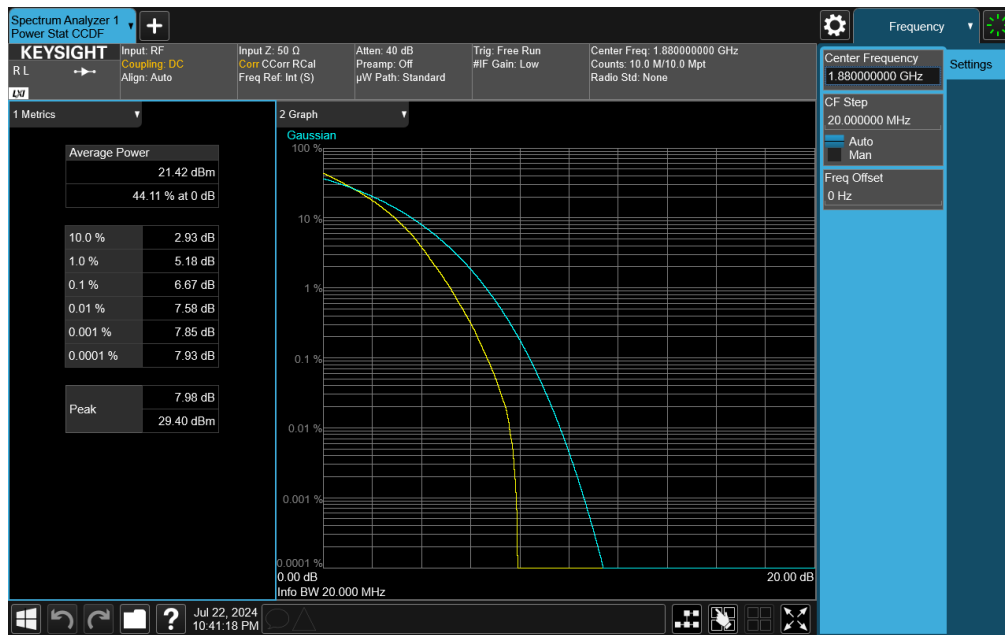
FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 171 of 219

V2.2 09/07/2023

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Plot 7-299. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 64-QAM - Full RB)



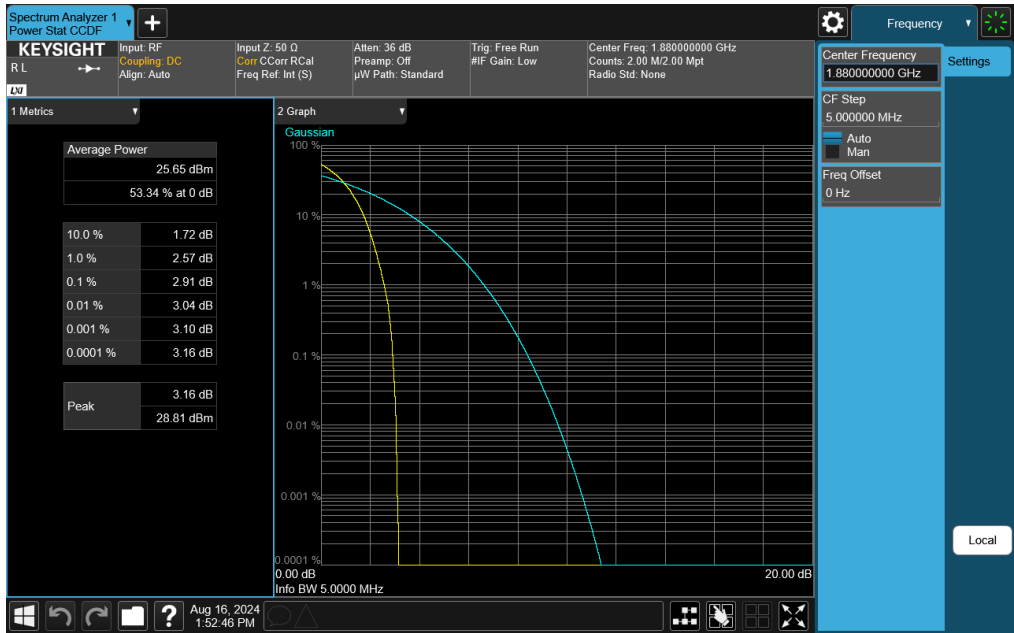
Plot 7-300. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 172 of 219

V2.2 09/07/2023

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WCDMA PCS



FCC ID: BCGA3269	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 173 of 219

V2.2 09/07/2023

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7.6 Radiated Power (EIRP)

§24.232(c)

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

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

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

Where:

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

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

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

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

Test Setup

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

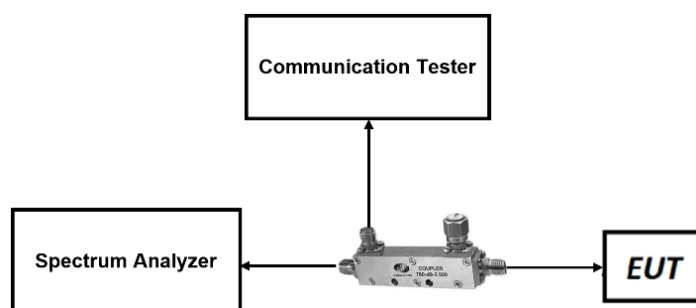


Figure 7-9. LTE Test Instrument & Measurement Setup

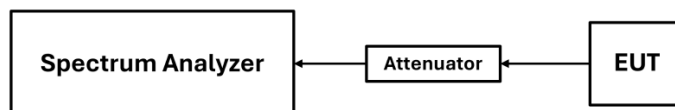


Figure 7-10. FR1 Test Instrument & Measurement Setup

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 174 of 219

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. The Ant. Gains (GT) are listed in dBi.
5. 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: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 175 of 219

V2.2 09/07/2023

7.6.1 Antenna 4 – EIRP

LTE Band 25

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	1850.7	1.60	1 / 3	25.70	27.30	0.537	33.01	-5.71
		1882.5	1.60	1 / 3	25.51	27.11	0.514	33.01	-5.90
		1914.3	1.60	1 / 5	25.57	27.17	0.521	33.01	-5.84
	16-QAM	1882.5	1.60	1 / 0	24.67	26.27	0.424	33.01	-6.74
	64-QAM	1882.5	1.60	1 / 5	23.61	25.21	0.332	33.01	-7.80
	256-QAM	1914.3	1.60	1 / 3	20.77	22.37	0.173	33.01	-10.64
3 MHz	QPSK	1851.5	1.60	1 / 0	25.43	27.03	0.505	33.01	-5.98
		1882.5	1.60	1 / 7	25.64	27.24	0.530	33.01	-5.77
		1913.5	1.60	1 / 14	25.69	27.29	0.536	33.01	-5.72
	16-QAM	1913.5	1.60	1 / 7	24.70	26.30	0.427	33.01	-6.71
	64-QAM	1882.5	1.60	1 / 14	23.58	25.18	0.330	33.01	-7.83
	256-QAM	1851.5	1.60	1 / 7	20.77	22.37	0.173	33.01	-10.64
5 MHz	QPSK	1852.5	1.60	1 / 24	25.66	27.26	0.532	33.01	-5.75
		1882.5	1.60	1 / 12	25.66	27.26	0.532	33.01	-5.75
		1912.5	1.60	1 / 0	25.50	27.10	0.513	33.01	-5.91
	16-QAM	1852.5	1.60	1 / 24	24.75	26.35	0.432	33.01	-6.66
	64-QAM	1852.5	1.60	1 / 12	23.75	25.35	0.343	33.01	-7.66
	256-QAM	1882.5	1.60	1 / 24	20.82	22.42	0.175	33.01	-10.59
10 MHz	QPSK	1855.0	1.60	1 / 25	25.68	27.28	0.535	33.01	-5.73
		1882.5	1.60	1 / 49	25.47	27.07	0.509	33.01	-5.94
		1910.0	1.60	1 / 25	25.66	27.26	0.532	33.01	-5.75
	16-QAM	1855.0	1.60	1 / 25	24.74	26.34	0.431	33.01	-6.67
	64-QAM	1910.0	1.60	1 / 0	23.63	25.23	0.333	33.01	-7.78
	256-QAM	1882.5	1.60	1 / 49	20.81	22.41	0.174	33.01	-10.60
15 MHz	QPSK	1857.5	1.60	1 / 74	25.54	27.14	0.518	33.01	-5.87
		1882.5	1.60	1 / 74	25.59	27.19	0.524	33.01	-5.82
		1907.5	1.60	1 / 74	25.41	27.01	0.502	33.01	-6.00
	16-QAM	1907.5	1.60	1 / 37	24.55	26.15	0.412	33.01	-6.86
	64-QAM	1882.5	1.60	1 / 37	23.70	25.30	0.339	33.01	-7.71
	256-QAM	1857.5	1.60	1 / 37	20.74	22.34	0.171	33.01	-10.67
	QPSK	1860.0	1.60	1 / 0	25.65	27.25	0.531	33.01	-5.76
		1882.5	1.60	1 / 99	25.70	27.30	0.537	33.01	-5.71
		1905.0	1.60	1 / 50	25.63	27.23	0.528	33.01	-5.78
	16-QAM	1882.5	1.60	1 / 99	24.73	26.33	0.430	33.01	-6.68
	64-QAM	1860.0	1.60	1 / 50	23.71	25.31	0.340	33.01	-7.70
	256-QAM	1860.0	1.60	1 / 0	20.77	22.37	0.173	33.01	-10.64

Table 7-2. Antenna 4 EIRP Data (LTE Band 25)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 176 of 219

V2.2 09/07/2023

LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	1.60	1 / 5	25.61	27.21	0.526	33.01	-5.80
		1880.0	1.60	1 / 0	25.36	26.96	0.497	33.01	-6.05
		1909.3	1.60	1 / 3	25.63	27.23	0.528	33.01	-5.78
	16-QAM	1850.7	1.60	1 / 0	24.58	26.18	0.415	33.01	-6.83
	64-QAM	1880.0	1.60	1 / 0	23.69	25.29	0.338	33.01	-7.72
	256-QAM	1909.3	1.60	1 / 0	20.73	22.33	0.171	33.01	-10.68
3 MHz	QPSK	1851.5	1.60	1 / 0	25.61	27.21	0.526	33.01	-5.80
		1880.0	1.60	1 / 14	25.70	27.30	0.537	33.01	-5.71
		1908.5	1.60	1 / 14	25.67	27.27	0.533	33.01	-5.74
	16-QAM	1908.5	1.60	1 / 14	24.66	26.26	0.423	33.01	-6.75
	64-QAM	1908.5	1.60	1 / 7	23.68	25.28	0.337	33.01	-7.73
	256-QAM	1908.5	1.60	1 / 14	20.66	22.26	0.168	33.01	-10.75
5 MHz	QPSK	1852.5	1.60	1 / 0	25.41	27.01	0.502	33.01	-6.00
		1880.0	1.60	1 / 12	25.69	27.29	0.536	33.01	-5.72
		1907.5	1.60	1 / 12	25.61	27.21	0.526	33.01	-5.80
	16-QAM	1852.5	1.60	1 / 12	24.71	26.31	0.428	33.01	-6.70
	64-QAM	1852.5	1.60	1 / 12	23.76	25.36	0.344	33.01	-7.65
	256-QAM	1907.5	1.60	1 / 24	20.71	22.31	0.170	33.01	-10.70
10 MHz	QPSK	1855.0	1.60	1 / 0	25.56	27.16	0.520	33.01	-5.85
		1880.0	1.60	1 / 25	25.59	27.19	0.524	33.01	-5.82
		1905.0	1.60	1 / 25	25.67	27.27	0.533	33.01	-5.74
	16-QAM	1855.0	1.60	1 / 25	24.70	26.30	0.427	33.01	-6.71
	64-QAM	1905.0	1.60	1 / 0	23.69	25.29	0.338	33.01	-7.72
	256-QAM	1905.0	1.60	1 / 25	20.81	22.41	0.174	33.01	-10.60
15 MHz	QPSK	1857.5	1.60	1 / 0	25.52	27.12	0.515	33.01	-5.89
		1880.0	1.60	1 / 74	25.46	27.06	0.508	33.01	-5.95
		1902.5	1.60	1 / 37	25.70	27.30	0.537	33.01	-5.71
	16-QAM	1880.0	1.60	1 / 0	24.57	26.17	0.414	33.01	-6.84
	64-QAM	1880.0	1.60	1 / 74	23.66	25.26	0.336	33.01	-7.75
	256-QAM	1857.5	1.60	1 / 0	20.74	22.34	0.171	33.01	-10.67
20 MHz	QPSK	1860.0	1.60	1 / 50	25.69	27.29	0.536	33.01	-5.72
		1880.0	1.60	1 / 0	25.70	27.30	0.537	33.01	-5.71
		1900.0	1.60	1 / 99	25.41	27.01	0.502	33.01	-6.00
	16-QAM	1880.0	1.60	1 / 50	24.70	26.30	0.427	33.01	-6.71
	64-QAM	1860.0	1.60	1 / 99	23.70	25.30	0.339	33.01	-7.71
	256-QAM	1880.0	1.60	1 / 50	20.82	22.42	0.175	33.01	-10.59

Table 7-3. Antenna 4 EIRP Data (LTE Band 2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 177 of 219

V2.2 09/07/2023

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NR Band n25

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	1852.5	1.60	1 / 1	25.62	27.22	0.527	33.01	-5.79
		1882.5	1.60	1 / 1	25.45	27.05	0.507	33.01	-5.96
		1912.5	1.60	1 / 12	25.43	27.03	0.505	33.01	-5.98
	QPSK	1852.5	1.60	1 / 1	25.39	26.99	0.500	33.01	-6.02
		1882.5	1.60	1 / 23	25.67	27.27	0.533	33.01	-5.74
		1912.5	1.60	1 / 23	25.70	27.30	0.537	33.01	-5.71
	16-QAM	1912.5	1.60	1 / 23	24.65	26.25	0.422	33.01	-6.76
	64-QAM	1882.5	1.60	1 / 12	23.64	25.24	0.334	33.01	-7.77
10 MHz	$\pi/2$ BPSK	1852.5	1.60	1 / 1	20.71	22.31	0.170	33.01	-10.70
		1882.5	1.60	1 / 1	25.63	27.23	0.528	33.01	-5.78
		1882.5	1.60	1 / 50	25.48	27.08	0.511	33.01	-5.93
	QPSK	1910.0	1.60	1 / 1	25.67	27.27	0.533	33.01	-5.74
		1855.0	1.60	1 / 25	25.70	27.30	0.537	33.01	-5.71
		1882.5	1.60	1 / 1	25.58	27.18	0.522	33.01	-5.83
	16-QAM	1910.0	1.60	1 / 25	25.60	27.20	0.525	33.01	-5.81
	64-QAM	1882.5	1.60	1 / 25	24.59	26.19	0.416	33.01	-6.82
15 MHz	$\pi/2$ BPSK	1910.0	1.60	1 / 50	23.71	25.31	0.340	33.01	-7.70
		1882.5	1.60	1 / 25	20.76	22.36	0.172	33.01	-10.65
		1857.5	1.60	1 / 36	25.50	27.10	0.513	33.01	-5.91
	QPSK	1882.5	1.60	1 / 36	25.45	27.05	0.507	33.01	-5.96
		1907.5	1.60	1 / 77	25.50	27.10	0.513	33.01	-5.91
		1857.5	1.60	1 / 36	25.63	27.23	0.528	33.01	-5.78
	16-QAM	1882.5	1.60	1 / 77	25.70	27.30	0.537	33.01	-5.71
	64-QAM	1907.5	1.60	1 / 36	25.57	27.17	0.521	33.01	-5.84
20 MHz	$\pi/2$ BPSK	1857.5	1.60	1 / 77	24.63	26.23	0.420	33.01	-6.78
		1882.5	1.60	1 / 1	23.66	25.26	0.336	33.01	-7.75
		1882.5	1.60	1 / 1	20.78	22.38	0.173	33.01	-10.63
	QPSK	1860.0	1.60	1 / 50	25.58	27.18	0.522	33.01	-5.83
		1882.5	1.60	1 / 104	25.45	27.05	0.507	33.01	-5.96
		1905.0	1.60	1 / 50	25.70	27.30	0.537	33.01	-5.71
	16-QAM	1860.0	1.60	1 / 104	25.60	27.20	0.525	33.01	-5.81
	64-QAM	1882.5	1.60	1 / 104	25.57	27.17	0.521	33.01	-5.84
25 MHz	$\pi/2$ BPSK	1905.0	1.60	1 / 104	25.39	26.99	0.500	33.01	-6.02
		1882.5	1.60	1 / 104	24.73	26.33	0.430	33.01	-6.68
		1882.5	1.60	1 / 50	23.73	25.33	0.341	33.01	-7.68
	QPSK	1860.0	1.60	1 / 50	20.79	22.39	0.173	33.01	-10.62
		1862.5	1.60	1 / 1	25.58	27.18	0.522	33.01	-5.83
		1882.5	1.60	1 / 131	25.70	27.30	0.537	33.01	-5.71
	16-QAM	1902.5	1.60	1 / 131	25.70	27.30	0.537	33.01	-5.71
	64-QAM	1862.5	1.60	1 / 64	25.42	27.02	0.504	33.01	-5.99
30 MHz	$\pi/2$ BPSK	1882.5	1.60	1 / 64	25.57	27.17	0.521	33.01	-5.84
		1902.5	1.60	1 / 64	25.63	27.23	0.528	33.01	-5.78
		1902.5	1.60	1 / 1	24.67	26.27	0.424	33.01	-6.74
	QPSK	1882.5	1.60	1 / 131	23.69	25.29	0.338	33.01	-7.72
		1862.5	1.60	1 / 131	20.73	22.33	0.171	33.01	-10.68
		1865.0	1.60	1 / 80	25.62	27.22	0.527	33.01	-5.79
	16-QAM	1900.0	1.60	1 / 158	25.66	27.26	0.532	33.01	-5.75
	64-QAM	1865.0	1.60	1 / 1	25.70	27.30	0.537	33.01	-5.71
35 MHz	$\pi/2$ BPSK	1882.5	1.60	1 / 1	25.47	27.07	0.509	33.01	-5.94
		1900.0	1.60	1 / 1	25.41	27.01	0.502	33.01	-6.00
		1882.5	1.60	1 / 158	24.70	26.30	0.427	33.01	-6.71
	QPSK	1900.0	1.60	1 / 80	23.69	25.29	0.338	33.01	-7.72
		1882.5	1.60	1 / 80	20.76	22.36	0.172	33.01	-10.65
		1867.5	1.60	1 / 1	25.56	27.16	0.520	33.01	-5.85
	16-QAM	1882.5	1.60	1 / 1	25.48	27.08	0.511	33.01	-5.93
	64-QAM	1897.5	1.60	1 / 90	25.67	27.27	0.533	33.01	-5.74
40 MHz	$\pi/2$ BPSK	1867.5	1.60	1 / 186	25.58	27.18	0.522	33.01	-5.83
		1897.5	1.60	1 / 1	25.59	27.19	0.524	33.01	-5.82
		1867.5	1.60	1 / 186	24.76	26.36	0.433	33.01	-6.65
	QPSK	1882.5	1.60	1 / 186	23.80	25.40	0.347	33.01	-7.61
		1882.5	1.60	1 / 90	20.78	22.38	0.173	33.01	-10.63
		1870.0	1.60	1 / 108	25.61	27.21	0.526	33.01	-5.80
	16-QAM	1882.5	1.60	1 / 108	25.57	27.17	0.521	33.01	-5.84
	64-QAM	1895.0	1.60	1 / 214	25.65	27.25	0.531	33.01	-5.76
45 MHz	$\pi/2$ BPSK	1870.0	1.60	1 / 214	25.70	27.30	0.537	33.01	-5.71
		1882.5	1.60	1 / 108	25.59	27.19	0.524	33.01	-5.82
		1895.0	1.60	1 / 1	25.57	27.17	0.521	33.01	-5.84
	QPSK	1882.5	1.60	1 / 1	24.71	26.31	0.428	33.01	-6.70
		1895.0	1.60	1 / 214	23.70	25.30	0.339	33.01	-7.71
		1870.0	1.60	1 / 108	20.75	22.35	0.172	33.01	-10.66
	16-QAM	1882.5	1.60	1 / 108	20.75	22.35	0.172	33.01	-10.66
	64-QAM	1870.0	1.60	1 / 108	20.75	22.35	0.172	33.01	-10.66

Table 7-4. Antenna 4 EIRP Data (NR Band n25)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 178 of 219

V2.2 09/07/2023

NR Band n2

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	1852.5	1.60	1 / 12	25.63	27.23	0.528	33.01	-5.78
		1880.0	1.60	1 / 1	25.57	27.17	0.521	33.01	-5.84
		1907.5	1.60	1 / 23	25.46	27.06	0.508	33.01	-5.95
	QPSK	1852.5	1.60	1 / 23	25.64	27.24	0.530	33.01	-5.77
		1880.0	1.60	1 / 23	25.70	27.30	0.537	33.01	-5.71
		1907.5	1.60	1 / 23	25.70	27.30	0.537	33.01	-5.71
	16-QAM	1907.5	1.60	1 / 1	24.53	26.13	0.410	33.01	-6.88
	64-QAM	1852.5	1.60	1 / 12	23.68	25.28	0.337	33.01	-7.73
	256-QAM	1880.0	1.60	1 / 23	20.75	22.35	0.172	33.01	-10.66
10 MHz	$\pi/2$ BPSK	1855.0	1.60	1 / 50	25.62	27.22	0.527	33.01	-5.79
		1880.0	1.60	1 / 50	25.70	27.30	0.537	33.01	-5.71
		1905.0	1.60	1 / 25	25.67	27.27	0.533	33.01	-5.74
	QPSK	1855.0	1.60	1 / 1	25.54	27.14	0.518	33.01	-5.87
		1880.0	1.60	1 / 50	25.64	27.24	0.530	33.01	-5.77
		1905.0	1.60	1 / 50	25.45	27.05	0.507	33.01	-5.96
	16-QAM	1880.0	1.60	1 / 1	24.75	26.35	0.432	33.01	-6.66
	64-QAM	1880.0	1.60	1 / 25	23.77	25.37	0.344	33.01	-7.64
	256-QAM	1855.0	1.60	1 / 50	20.73	22.33	0.171	33.01	-10.68
15 MHz	$\pi/2$ BPSK	1857.5	1.60	1 / 77	25.70	27.30	0.537	33.01	-5.71
		1880.0	1.60	1 / 77	25.63	27.23	0.528	33.01	-5.78
		1902.5	1.60	1 / 1	25.64	27.24	0.530	33.01	-5.77
	QPSK	1857.5	1.60	1 / 77	25.52	27.12	0.515	33.01	-5.89
		1880.0	1.60	1 / 1	25.41	27.01	0.502	33.01	-6.00
		1902.5	1.60	1 / 1	25.59	27.19	0.524	33.01	-5.82
	16-QAM	1902.5	1.60	1 / 1	24.67	26.27	0.424	33.01	-6.74
	64-QAM	1880.0	1.60	1 / 77	23.65	25.25	0.335	33.01	-7.76
	256-QAM	1857.5	1.60	1 / 1	20.75	22.35	0.172	33.01	-10.66
20 MHz	$\pi/2$ BPSK	1860.0	1.60	1 / 50	25.68	27.28	0.535	33.01	-5.73
		1880.0	1.60	1 / 50	25.55	27.15	0.519	33.01	-5.86
		1900.0	1.60	1 / 50	25.55	27.15	0.519	33.01	-5.86
	QPSK	1860.0	1.60	1 / 50	25.39	26.99	0.500	33.01	-6.02
		1880.0	1.60	1 / 104	25.70	27.30	0.537	33.01	-5.71
		1900.0	1.60	1 / 1	25.53	27.13	0.516	33.01	-5.88
	16-QAM	1860.0	1.60	1 / 104	24.67	26.27	0.424	33.01	-6.74
	64-QAM	1880.0	1.60	1 / 1	23.70	25.30	0.339	33.01	-7.71
	256-QAM	1900.0	1.60	1 / 50	20.81	22.41	0.174	33.01	-10.60

Table 7-5. Antenna 4 EIRP Data (NR Band n2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 179 of 219

V2.2 09/07/2023

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.50	1.60	27.10	0.513	33.01	-5.91
1880.00	WCDMA1900	25.61	1.60	27.21	0.526	33.01	-5.80
1907.60	WCDMA1900	25.63	1.60	27.23	0.528	33.01	-5.78

Table 7-6. Antenna 4 EIRP Data (WCDMA PCS)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 180 of 219

V2.2 09/07/2023

7.6.2 Antenna 1b – EIRP

LTE Band 25

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	1850.7	0.70	1 / 5	22.52	23.22	0.210	33.01	-9.79
		1882.5	0.70	1 / 0	22.67	23.37	0.217	33.01	-9.64
		1914.3	0.70	1 / 3	22.70	23.40	0.219	33.01	-9.61
	16-QAM	1914.3	0.70	1 / 5	21.70	22.40	0.174	33.01	-10.61
	64-QAM	1914.3	0.70	1 / 5	20.60	21.30	0.135	33.01	-11.71
	256-QAM	1914.3	0.70	1 / 5	17.80	18.50	0.071	33.01	-14.51
3 MHz	QPSK	1851.5	0.70	1 / 14	22.69	23.39	0.218	33.01	-9.62
		1882.5	0.70	1 / 7	22.59	23.29	0.213	33.01	-9.72
		1913.5	0.70	1 / 7	22.70	23.40	0.219	33.01	-9.61
	16-QAM	1913.5	0.70	1 / 0	21.70	22.40	0.174	33.01	-10.61
	64-QAM	1882.5	0.70	1 / 7	20.71	21.41	0.138	33.01	-11.60
	256-QAM	1882.5	0.70	1 / 7	17.82	18.52	0.071	33.01	-14.49
5 MHz	QPSK	1852.5	0.70	1 / 0	22.64	23.34	0.216	33.01	-9.67
		1882.5	0.70	1 / 12	22.70	23.40	0.219	33.01	-9.61
		1912.5	0.70	1 / 24	22.64	23.34	0.216	33.01	-9.67
	16-QAM	1912.5	0.70	1 / 24	21.73	22.43	0.175	33.01	-10.58
	64-QAM	1882.5	0.70	1 / 0	20.55	21.25	0.133	33.01	-11.76
	256-QAM	1882.5	0.70	1 / 0	17.80	18.50	0.071	33.01	-14.51
10 MHz	QPSK	1855.0	0.70	1 / 0	22.36	23.06	0.202	33.01	-9.95
		1882.5	0.70	1 / 0	22.70	23.40	0.219	33.01	-9.61
		1910.0	0.70	1 / 25	22.67	23.37	0.217	33.01	-9.64
	16-QAM	1855.0	0.70	1 / 49	21.69	22.39	0.173	33.01	-10.62
	64-QAM	1910.0	0.70	1 / 49	20.62	21.32	0.136	33.01	-11.69
	256-QAM	1855.0	0.70	1 / 49	17.77	18.47	0.070	33.01	-14.54
15 MHz	QPSK	1857.5	0.70	1 / 37	22.44	23.14	0.206	33.01	-9.87
		1882.5	0.70	1 / 37	22.63	23.33	0.215	33.01	-9.68
		1907.5	0.70	1 / 0	22.48	23.18	0.208	33.01	-9.83
	16-QAM	1857.5	0.70	1 / 74	21.71	22.41	0.174	33.01	-10.60
	64-QAM	1857.5	0.70	1 / 74	20.68	21.38	0.137	33.01	-11.63
	256-QAM	1857.5	0.70	1 / 74	17.78	18.48	0.070	33.01	-14.53
	QPSK	1860.0	0.70	1 / 99	22.70	23.40	0.219	33.01	-9.61
		1882.5	0.70	1 / 50	22.54	23.24	0.211	33.01	-9.77
		1905.0	0.70	1 / 50	22.64	23.34	0.216	33.01	-9.67
	16-QAM	1860.0	0.70	1 / 50	21.65	22.35	0.172	33.01	-10.66
	64-QAM	1905.0	0.70	1 / 50	20.69	21.39	0.138	33.01	-11.62
	256-QAM	1882.5	0.70	1 / 99	17.81	18.51	0.071	33.01	-14.50

Table 7-7. Antenna 1b EIRP Data (LTE Band 25)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 181 of 219

V2.2 09/07/2023

LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	0.70	1 / 5	22.51	23.21	0.209	33.01	-9.80
		1880.0	0.70	1 / 0	22.62	23.32	0.215	33.01	-9.69
		1909.3	0.70	1 / 3	22.65	23.35	0.216	33.01	-9.66
	16-QAM	1909.3	0.70	1 / 5	21.66	22.36	0.172	33.01	-10.65
	64-QAM	1850.7	0.70	1 / 5	20.61	21.31	0.135	33.01	-11.70
	256-QAM	1909.3	0.70	1 / 5	17.81	18.51	0.071	33.01	-14.50
3 MHz	QPSK	1851.5	0.70	1 / 0	22.70	23.40	0.219	33.01	-9.61
		1880.0	0.70	1 / 7	22.69	23.39	0.218	33.01	-9.62
		1908.5	0.70	1 / 0	22.69	23.39	0.218	33.01	-9.62
	16-QAM	1880.0	0.70	1 / 14	21.61	22.31	0.170	33.01	-10.70
	64-QAM	1908.5	0.70	1 / 14	20.70	21.40	0.138	33.01	-11.61
	256-QAM	1880.0	0.70	1 / 7	17.77	18.47	0.070	33.01	-14.54
5 MHz	QPSK	1852.5	0.70	1 / 24	22.68	23.38	0.218	33.01	-9.63
		1880.0	0.70	1 / 12	22.69	23.39	0.218	33.01	-9.62
		1907.5	0.70	1 / 24	22.52	23.22	0.210	33.01	-9.79
	16-QAM	1852.5	0.70	1 / 0	21.70	22.40	0.174	33.01	-10.61
	64-QAM	1880.0	0.70	1 / 0	20.65	21.35	0.136	33.01	-11.66
	256-QAM	1907.5	0.70	1 / 24	17.78	18.48	0.070	33.01	-14.53
10 MHz	QPSK	1855.0	0.70	1 / 49	22.62	23.32	0.215	33.01	-9.69
		1880.0	0.70	1 / 25	22.57	23.27	0.212	33.01	-9.74
		1905.0	0.70	1 / 0	22.61	23.31	0.214	33.01	-9.70
	16-QAM	1905.0	0.70	1 / 25	21.68	22.38	0.173	33.01	-10.63
	64-QAM	1880.0	0.70	1 / 49	20.72	21.42	0.139	33.01	-11.59
	256-QAM	1855.0	0.70	1 / 0	17.81	18.51	0.071	33.01	-14.50
15 MHz	QPSK	1857.5	0.70	1 / 74	22.70	23.40	0.219	33.01	-9.61
		1880.0	0.70	1 / 37	22.70	23.40	0.219	33.01	-9.61
		1902.5	0.70	1 / 37	22.62	23.32	0.215	33.01	-9.69
	16-QAM	1857.5	0.70	1 / 37	21.66	22.36	0.172	33.01	-10.65
		1902.5	0.70	1 / 0	21.66	22.36	0.172	33.01	-10.65
	64-QAM	1857.5	0.70	1 / 37	20.66	21.36	0.137	33.01	-11.65
20 MHz	QPSK	1860.0	0.70	1 / 0	22.66	23.36	0.217	33.01	-9.65
		1880.0	0.70	1 / 0	22.57	23.27	0.212	33.01	-9.74
		1900.0	0.70	1 / 99	22.69	23.39	0.218	33.01	-9.62
	16-QAM	1900.0	0.70	1 / 50	21.66	22.36	0.172	33.01	-10.65
	64-QAM	1860.0	0.70	1 / 99	20.69	21.39	0.138	33.01	-11.62
	256-QAM	1860.0	0.70	1 / 50	17.75	18.45	0.070	33.01	-14.56

Table 7-8. Antenna 1b EIRP Data (LTE Band 2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 182 of 219

V2.2 09/07/2023

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NR Band n25

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	1852.5	0.70	1 / 1	22.68	23.38	0.218	33.01	-9.63
		1882.5	0.70	1 / 23	22.58	23.28	0.213	33.01	-9.73
		1912.5	0.70	1 / 1	22.70	23.40	0.219	33.01	-9.61
	QPSK	1852.5	0.70	1 / 23	22.58	23.28	0.213	33.01	-9.73
		1882.5	0.70	1 / 1	22.53	23.23	0.210	33.01	-9.78
		1912.5	0.70	1 / 12	22.67	23.37	0.217	33.01	-9.64
	16-QAM	1912.5	0.70	1 / 12	21.71	22.41	0.174	33.01	-10.60
	64-QAM	1852.5	0.70	1 / 1	20.72	21.42	0.139	33.01	-11.59
10 MHz	π/2 BPSK	1852.5	0.70	1 / 12	17.81	18.51	0.071	33.01	-14.50
		1882.5	0.70	1 / 1	22.64	23.34	0.216	33.01	-9.67
		1910.0	0.70	1 / 25	22.62	23.32	0.215	33.01	-9.69
	QPSK	1852.5	0.70	1 / 25	22.53	23.23	0.210	33.01	-9.78
		1882.5	0.70	1 / 1	22.64	23.34	0.216	33.01	-9.67
		1910.0	0.70	1 / 25	22.61	23.31	0.214	33.01	-9.70
	16-QAM	1910.0	0.70	1 / 25	22.70	23.40	0.219	33.01	-9.61
	64-QAM	1910.0	0.70	1 / 1	21.67	22.37	0.173	33.01	-10.64
15 MHz	π/2 BPSK	1882.5	0.70	1 / 1	20.61	21.31	0.135	33.01	-11.70
		1910.0	0.70	1 / 1	20.61	21.31	0.135	33.01	-11.70
		1910.0	0.70	1 / 1	17.75	18.45	0.070	33.01	-14.56
	QPSK	1857.5	0.70	1 / 36	22.31	23.01	0.200	33.01	-10.00
		1882.5	0.70	1 / 36	22.70	23.40	0.219	33.01	-9.61
		1907.5	0.70	1 / 77	22.67	23.37	0.217	33.01	-9.64
	16-QAM	1857.5	0.70	1 / 1	22.38	23.08	0.203	33.01	-9.93
	64-QAM	1882.5	0.70	1 / 36	22.54	23.24	0.211	33.01	-9.77
20 MHz	π/2 BPSK	1857.5	0.70	1 / 1	22.64	23.34	0.216	33.01	-9.67
		1882.5	0.70	1 / 1	22.64	23.34	0.216	33.01	-9.67
		1907.5	0.70	1 / 1	22.64	23.34	0.216	33.01	-9.67
	QPSK	1857.5	0.70	1 / 36	21.61	22.31	0.170	33.01	-10.70
		1882.5	0.70	1 / 36	20.70	21.40	0.138	33.01	-11.61
		1907.5	0.70	1 / 1	17.79	18.49	0.071	33.01	-14.52
	16-QAM	1857.5	0.70	1 / 1	22.25	22.95	0.197	33.01	-10.06
	64-QAM	1882.5	0.70	1 / 1	22.59	23.29	0.213	33.01	-9.72
25 MHz	π/2 BPSK	1857.5	0.70	1 / 1	22.59	23.29	0.213	33.01	-9.72
		1882.5	0.70	1 / 1	22.70	23.40	0.219	33.01	-9.61
		1907.5	0.70	1 / 104	22.34	23.04	0.201	33.01	-9.97
	QPSK	1857.5	0.70	1 / 104	22.66	23.36	0.217	33.01	-9.65
		1882.5	0.70	1 / 1	22.41	23.11	0.205	33.01	-9.90
		1907.5	0.70	1 / 50	22.41	23.11	0.205	33.01	-9.90
	16-QAM	1857.5	0.70	1 / 1	21.51	22.21	0.166	33.01	-10.80
	64-QAM	1882.5	0.70	1 / 50	20.68	21.38	0.137	33.01	-11.63
30 MHz	π/2 BPSK	1882.5	0.70	1 / 50	17.66	18.36	0.069	33.01	-14.65
		1882.5	0.70	1 / 1	22.49	23.19	0.208	33.01	-9.82
		1902.5	0.70	1 / 64	22.67	23.37	0.217	33.01	-9.64
	QPSK	1862.5	0.70	1 / 131	22.70	23.40	0.219	33.01	-9.61
		1882.5	0.70	1 / 131	22.67	23.37	0.217	33.01	-9.64
		1902.5	0.70	1 / 64	22.58	23.28	0.213	33.01	-9.73
	16-QAM	1862.5	0.70	1 / 1	22.59	23.29	0.213	33.01	-9.72
	64-QAM	1882.5	0.70	1 / 64	21.60	22.30	0.170	33.01	-10.71
35 MHz	π/2 BPSK	1862.5	0.70	1 / 64	20.68	21.38	0.137	33.01	-11.63
		1902.5	0.70	1 / 64	20.68	21.38	0.137	33.01	-11.63
		1902.5	0.70	1 / 131	17.72	18.42	0.070	33.01	-14.59
	QPSK	1862.5	0.70	1 / 131	17.72	18.42	0.070	33.01	-14.59
		1882.5	0.70	1 / 131	22.67	23.37	0.217	33.01	-9.64
		1902.5	0.70	1 / 131	22.70	23.40	0.219	33.01	-9.61
	16-QAM	1862.5	0.70	1 / 131	22.67	23.37	0.217	33.01	-9.64
	64-QAM	1882.5	0.70	1 / 64	22.58	23.28	0.213	33.01	-9.73
40 MHz	π/2 BPSK	1862.5	0.70	1 / 64	20.68	21.38	0.137	33.01	-11.63
		1902.5	0.70	1 / 64	20.68	21.38	0.137	33.01	-11.63
		1902.5	0.70	1 / 131	17.72	18.42	0.070	33.01	-14.59
	QPSK	1862.5	0.70	1 / 131	17.72	18.42	0.070	33.01	-14.59
		1882.5	0.70	1 / 131	22.67	23.37	0.217	33.01	-9.64
		1902.5	0.70	1 / 131	22.70	23.40	0.219	33.01	-9.61
	16-QAM	1862.5	0.70	1 / 131	22.67	23.37	0.217	33.01	-9.64
	64-QAM	1882.5	0.70	1 / 64	22.58	23.28	0.213	33.01	-9.73

Table 7-9. Antenna 1b EIRP Data (NR Band n25)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 183 of 219

V2.2 09/07/2023

NR Band n2

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	1852.5	0.70	1 / 1	22.49	23.19	0.208	33.01	-9.82
		1880.0	0.70	1 / 23	22.50	23.20	0.209	33.01	-9.81
		1907.5	0.70	1 / 23	22.70	23.40	0.219	33.01	-9.61
	QPSK	1852.5	0.70	1 / 12	22.41	23.11	0.205	33.01	-9.90
		1880.0	0.70	1 / 23	22.66	23.36	0.217	33.01	-9.65
		1907.5	0.70	1 / 12	22.62	23.32	0.215	33.01	-9.69
	16-QAM	1907.5	0.70	1 / 23	21.64	22.34	0.171	33.01	-10.67
	64-QAM	1852.5	0.70	1 / 23	20.69	21.39	0.138	33.01	-11.62
	256-QAM	1852.5	0.70	1 / 12	17.78	18.48	0.070	33.01	-14.53
10 MHz	$\pi/2$ BPSK	1855.0	0.70	1 / 1	22.48	23.18	0.208	33.01	-9.83
		1880.0	0.70	1 / 50	22.69	23.39	0.218	33.01	-9.62
		1905.0	0.70	1 / 1	22.55	23.25	0.211	33.01	-9.76
	QPSK	1855.0	0.70	1 / 25	22.57	23.27	0.212	33.01	-9.74
		1880.0	0.70	1 / 1	22.70	23.40	0.219	33.01	-9.61
		1905.0	0.70	1 / 50	22.62	23.32	0.215	33.01	-9.69
	16-QAM	1880.0	0.70	1 / 1	21.70	22.40	0.174	33.01	-10.61
	64-QAM	1905.0	0.70	1 / 1	20.71	21.41	0.138	33.01	-11.60
	256-QAM	1855.0	0.70	1 / 25	17.73	18.43	0.070	33.01	-14.58
		1905.0	0.70	1 / 50	17.73	18.43	0.070	33.01	-14.58
15 MHz	$\pi/2$ BPSK	1857.5	0.70	1 / 36	22.66	23.36	0.217	33.01	-9.65
		1880.0	0.70	1 / 77	22.53	23.23	0.210	33.01	-9.78
		1902.5	0.70	1 / 36	22.53	23.23	0.210	33.01	-9.78
	QPSK	1857.5	0.70	1 / 36	22.60	23.30	0.214	33.01	-9.71
		1880.0	0.70	1 / 77	22.68	23.38	0.218	33.01	-9.63
		1902.5	0.70	1 / 77	22.70	23.40	0.219	33.01	-9.61
	16-QAM	1857.5	0.70	1 / 77	21.62	22.32	0.171	33.01	-10.69
	64-QAM	1880.0	0.70	1 / 1	20.70	21.40	0.138	33.01	-11.61
	256-QAM	1902.5	0.70	1 / 36	17.78	18.48	0.070	33.01	-14.53
20 MHz	$\pi/2$ BPSK	1860.0	0.70	1 / 50	22.44	23.14	0.206	33.01	-9.87
		1880.0	0.70	1 / 104	22.70	23.40	0.219	33.01	-9.61
		1900.0	0.70	1 / 1	22.56	23.26	0.212	33.01	-9.75
	QPSK	1860.0	0.70	1 / 50	22.70	23.40	0.219	33.01	-9.61
		1880.0	0.70	1 / 50	22.65	23.35	0.216	33.01	-9.66
		1900.0	0.70	1 / 104	22.44	23.14	0.206	33.01	-9.87
	16-QAM	1860.0	0.70	1 / 1	21.74	22.44	0.175	33.01	-10.57
	64-QAM	1860.0	0.70	1 / 1	20.70	21.40	0.138	33.01	-11.61
	256-QAM	1900.0	0.70	1 / 50	17.73	18.43	0.070	33.01	-14.58

Table 7-10. Antenna 1b EIRP Data (NR Band n2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 184 of 219

V2.2 09/07/2023

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	22.49	0.70	23.19	0.208	33.01	-9.82
1880.00	WCDMA1900	22.52	0.70	23.22	0.210	33.01	-9.79
1907.60	WCDMA1900	22.68	0.70	23.38	0.218	33.01	-9.63

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

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 185 of 219

V2.2 09/07/2023

7.6.3 Antenna 3b – EIRP

LTE Band 25

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	1850.7	0.10	1 / 5	24.39	24.49	0.281	33.01	-8.52
		1882.5	0.10	1 / 0	24.63	24.73	0.297	33.01	-8.28
		1914.3	0.10	1 / 5	24.70	24.80	0.302	33.01	-8.21
	16-QAM	1914.3	0.10	1 / 0	23.72	23.82	0.241	33.01	-9.19
	64-QAM	1850.7	0.10	1 / 3	22.71	22.81	0.191	33.01	-10.20
	256-QAM	1850.7	0.10	1 / 3	19.80	19.90	0.098	33.01	-13.11
3 MHz	QPSK	1851.5	0.10	1 / 7	24.66	24.76	0.299	33.01	-8.25
		1882.5	0.10	1 / 7	24.69	24.79	0.301	33.01	-8.22
		1913.5	0.10	1 / 7	24.70	24.80	0.302	33.01	-8.21
	16-QAM	1913.5	0.10	1 / 0	23.75	23.85	0.243	33.01	-9.16
	64-QAM	1913.5	0.10	1 / 14	22.75	22.85	0.193	33.01	-10.16
	256-QAM	1882.5	0.10	1 / 14	19.83	19.93	0.098	33.01	-13.08
5 MHz	QPSK	1852.5	0.10	1 / 0	24.39	24.49	0.281	33.01	-8.52
		1882.5	0.10	1 / 12	24.62	24.72	0.296	33.01	-8.29
		1912.5	0.10	1 / 0	24.70	24.80	0.302	33.01	-8.21
	16-QAM	1852.5	0.10	1 / 0	23.72	23.82	0.241	33.01	-9.19
	64-QAM	1912.5	0.10	1 / 12	22.58	22.68	0.185	33.01	-10.33
	256-QAM	1912.5	0.10	1 / 0	19.86	19.96	0.099	33.01	-13.05
10 MHz	QPSK	1855.0	0.10	1 / 49	24.55	24.65	0.292	33.01	-8.36
		1882.5	0.10	1 / 49	24.65	24.75	0.299	33.01	-8.26
		1910.0	0.10	1 / 0	24.70	24.80	0.302	33.01	-8.21
	16-QAM	1855.0	0.10	1 / 25	23.66	23.76	0.238	33.01	-9.25
	64-QAM	1882.5	0.10	1 / 0	22.69	22.79	0.190	33.01	-10.22
	256-QAM	1910.0	0.10	1 / 49	19.77	19.87	0.097	33.01	-13.14
15 MHz	QPSK	1857.5	0.10	1 / 37	24.50	24.60	0.288	33.01	-8.41
		1882.5	0.10	1 / 74	24.43	24.53	0.284	33.01	-8.48
		1907.5	0.10	1 / 0	24.59	24.69	0.294	33.01	-8.32
	16-QAM	1882.5	0.10	1 / 0	23.62	23.72	0.236	33.01	-9.29
	64-QAM	1857.5	0.10	1 / 37	22.70	22.80	0.191	33.01	-10.21
	256-QAM	1857.5	0.10	1 / 0	19.75	19.85	0.097	33.01	-13.16
	QPSK	1860.0	0.10	1 / 0	24.70	24.80	0.302	33.01	-8.21
		1882.5	0.10	1 / 50	24.66	24.76	0.299	33.01	-8.25
		1905.0	0.10	1 / 50	24.55	24.65	0.292	33.01	-8.36
	16-QAM	1882.5	0.10	1 / 0	23.67	23.77	0.238	33.01	-9.24
	64-QAM	1905.0	0.10	1 / 99	22.64	22.74	0.188	33.01	-10.27
	256-QAM	1882.5	0.10	1 / 99	19.80	19.90	0.098	33.01	-13.11

Table 7-12. Antenna 3b EIRP Data (LTE Band 25)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 186 of 219

V2.2 09/07/2023

LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	0.10	1 / 5	24.70	24.80	0.302	33.01	-8.21
		1880.0	0.10	1 / 5	24.59	24.69	0.294	33.01	-8.32
		1909.3	0.10	1 / 5	24.70	24.80	0.302	33.01	-8.21
	16-QAM	1909.3	0.10	1 / 5	23.62	23.72	0.236	33.01	-9.29
	64-QAM	1909.3	0.10	1 / 0	22.69	22.79	0.190	33.01	-10.22
	256-QAM	1850.7	0.10	1 / 0	19.71	19.81	0.096	33.01	-13.20
3 MHz	QPSK	1851.5	0.10	1 / 0	24.53	24.63	0.290	33.01	-8.38
		1880.0	0.10	1 / 0	24.50	24.60	0.288	33.01	-8.41
		1908.5	0.10	1 / 0	24.41	24.51	0.282	33.01	-8.50
	16-QAM	1908.5	0.10	1 / 7	23.70	23.80	0.240	33.01	-9.21
	64-QAM	1880.0	0.10	1 / 14	22.70	22.80	0.191	33.01	-10.21
	256-QAM	1908.5	0.10	1 / 7	19.76	19.86	0.097	33.01	-13.15
5 MHz	QPSK	1852.5	0.10	1 / 24	24.64	24.74	0.298	33.01	-8.27
		1880.0	0.10	1 / 0	24.70	24.80	0.302	33.01	-8.21
		1907.5	0.10	1 / 12	24.51	24.61	0.289	33.01	-8.40
	16-QAM	1880.0	0.10	1 / 24	23.68	23.78	0.239	33.01	-9.23
	64-QAM	1852.5	0.10	1 / 0	22.69	22.79	0.190	33.01	-10.22
	256-QAM	1907.5	0.10	1 / 0	19.77	19.87	0.097	33.01	-13.14
10 MHz	QPSK	1855.0	0.10	1 / 0	24.68	24.78	0.301	33.01	-8.23
		1880.0	0.10	1 / 0	24.63	24.73	0.297	33.01	-8.28
		1905.0	0.10	1 / 49	24.48	24.58	0.287	33.01	-8.43
	16-QAM	1855.0	0.10	1 / 25	23.73	23.83	0.242	33.01	-9.18
	64-QAM	1880.0	0.10	1 / 0	22.65	22.75	0.188	33.01	-10.26
	256-QAM	1855.0	0.10	1 / 0	19.87	19.97	0.099	33.01	-13.04
15 MHz	QPSK	1857.5	0.10	1 / 74	24.51	24.61	0.289	33.01	-8.40
		1880.0	0.10	1 / 0	24.70	24.80	0.302	33.01	-8.21
		1902.5	0.10	1 / 74	24.60	24.70	0.295	33.01	-8.31
	16-QAM	1880.0	0.10	1 / 37	23.72	23.82	0.241	33.01	-9.19
	64-QAM	1880.0	0.10	1 / 0	22.61	22.71	0.187	33.01	-10.30
	256-QAM	1880.0	0.10	1 / 0	19.75	19.85	0.097	33.01	-13.16
20 MHz	QPSK	1860.0	0.10	1 / 50	24.70	24.80	0.302	33.01	-8.21
		1880.0	0.10	1 / 0	24.46	24.56	0.286	33.01	-8.45
		1900.0	0.10	1 / 0	24.43	24.53	0.284	33.01	-8.48
	16-QAM	1860.0	0.10	1 / 50	23.68	23.78	0.239	33.01	-9.23
	64-QAM	1900.0	0.10	1 / 0	22.74	22.84	0.192	33.01	-10.17
	256-QAM	1880.0	0.10	1 / 0	19.84	19.94	0.099	33.01	-13.07

Table 7-13. Antenna 3b EIRP Data (LTE Band 2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 187 of 219

V2.2 09/07/2023

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NR Band n25

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	1852.5	0.10	1 / 12	24.50	24.60	0.288	33.01	-8.41
		1882.5	0.10	1 / 12	24.65	24.75	0.299	33.01	-8.26
		1912.5	0.10	1 / 1	24.53	24.63	0.290	33.01	-8.38
	QPSK	1852.5	0.10	1 / 12	24.65	24.75	0.299	33.01	-8.26
		1882.5	0.10	1 / 23	24.70	24.80	0.302	33.01	-8.21
		1912.5	0.10	1 / 23	24.69	24.79	0.301	33.01	-8.22
	16-QAM	1852.5	0.10	1 / 1	23.62	23.72	0.236	33.01	-9.29
	64-QAM	1882.5	0.10	1 / 23	22.60	22.70	0.186	33.01	-10.31
	256-QAM	1912.5	0.10	1 / 12	19.78	19.88	0.097	33.01	-13.13
10 MHz	$\pi/2$ BPSK	1855.0	0.10	1 / 1	24.56	24.66	0.292	33.01	-8.35
		1882.5	0.10	1 / 50	24.60	24.70	0.295	33.01	-8.31
		1910.0	0.10	1 / 25	24.70	24.80	0.302	33.01	-8.21
	QPSK	1855.0	0.10	1 / 50	24.57	24.67	0.293	33.01	-8.34
		1882.5	0.10	1 / 25	24.62	24.72	0.296	33.01	-8.29
		1910.0	0.10	1 / 1	24.46	24.56	0.286	33.01	-8.45
	16-QAM	1855.0	0.10	1 / 50	23.53	23.63	0.231	33.01	-9.38
	64-QAM	1910.0	0.10	1 / 1	22.65	22.75	0.188	33.01	-10.26
	256-QAM	1855.0	0.10	1 / 50	19.73	19.83	0.096	33.01	-13.18
15 MHz	$\pi/2$ BPSK	1857.5	0.10	1 / 1	24.61	24.71	0.296	33.01	-8.30
		1882.5	0.10	1 / 77	24.63	24.73	0.297	33.01	-8.28
		1907.5	0.10	1 / 36	24.70	24.80	0.302	33.01	-8.21
	QPSK	1857.5	0.10	1 / 36	24.69	24.79	0.301	33.01	-8.22
		1882.5	0.10	1 / 36	24.67	24.77	0.300	33.01	-8.24
		1907.5	0.10	1 / 1	24.35	24.45	0.279	33.01	-8.56
	16-QAM	1857.5	0.10	1 / 36	23.70	23.80	0.240	33.01	-9.21
	64-QAM	1857.5	0.10	1 / 36	22.69	22.79	0.190	33.01	-10.22
	256-QAM	1882.5	0.10	1 / 1	19.80	19.90	0.098	33.01	-13.11
20 MHz	$\pi/2$ BPSK	1860.0	0.10	1 / 50	24.70	24.80	0.302	33.01	-8.21
		1882.5	0.10	1 / 50	24.69	24.79	0.301	33.01	-8.22
		1905.0	0.10	1 / 1	24.51	24.61	0.289	33.01	-8.40
	QPSK	1860.0	0.10	1 / 104	24.62	24.72	0.296	33.01	-8.29
		1882.5	0.10	1 / 1	24.47	24.57	0.286	33.01	-8.44
		1905.0	0.10	1 / 50	24.63	24.73	0.297	33.01	-8.28
	16-QAM	1860.0	0.10	1 / 104	23.72	23.82	0.241	33.01	-9.19
	64-QAM	1905.0	0.10	1 / 50	22.55	22.65	0.184	33.01	-10.36
	256-QAM	1860.0	0.10	1 / 50	19.76	19.86	0.097	33.01	-13.15
25 MHz	$\pi/2$ BPSK	1862.5	0.10	1 / 131	24.70	24.80	0.302	33.01	-8.21
		1882.5	0.10	1 / 64	24.69	24.79	0.301	33.01	-8.22
		1902.5	0.10	1 / 131	24.48	24.58	0.287	33.01	-8.43
	QPSK	1862.5	0.10	1 / 131	24.68	24.78	0.301	33.01	-8.23
		1882.5	0.10	1 / 1	24.69	24.79	0.301	33.01	-8.22
		1902.5	0.10	1 / 1	24.63	24.73	0.297	33.01	-8.28
	16-QAM	1862.5	0.10	1 / 131	23.70	23.80	0.240	33.01	-9.21
	64-QAM	1862.5	0.10	1 / 1	22.69	22.79	0.190	33.01	-10.22
	256-QAM	1902.5	0.10	1 / 64	19.76	19.86	0.097	33.01	-13.15
30 MHz	$\pi/2$ BPSK	1865.0	0.10	1 / 1	24.67	24.77	0.300	33.01	-8.24
		1882.5	0.10	1 / 1	24.49	24.59	0.288	33.01	-8.42
		1900.0	0.10	1 / 1	24.69	24.79	0.301	33.01	-8.22
	QPSK	1865.0	0.10	1 / 158	24.64	24.74	0.298	33.01	-8.27
		1882.5	0.10	1 / 1	24.35	24.45	0.279	33.01	-8.56
		1900.0	0.10	1 / 1	24.70	24.80	0.302	33.01	-8.21
	16-QAM	1865.0	0.10	1 / 158	23.66	23.76	0.238	33.01	-9.25
	64-QAM	1865.0	0.10	1 / 80	22.58	22.68	0.185	33.01	-10.33
	256-QAM	1900.0	0.10	1 / 158	19.80	19.90	0.098	33.01	-13.11
35 MHz	$\pi/2$ BPSK	1867.5	0.10	1 / 186	24.64	24.74	0.298	33.01	-8.27
		1882.5	0.10	1 / 186	24.47	24.57	0.286	33.01	-8.44
		1897.5	0.10	1 / 1	24.56	24.66	0.292	33.01	-8.35
	QPSK	1867.5	0.10	1 / 186	24.49	24.59	0.288	33.01	-8.42
		1882.5	0.10	1 / 186	24.70	24.80	0.302	33.01	-8.21
		1897.5	0.10	1 / 1	24.59	24.69	0.294	33.01	-8.32
	16-QAM	1867.5	0.10	1 / 186	23.67	23.77	0.238	33.01	-9.24
	64-QAM	1882.5	0.10	1 / 1	22.73	22.83	0.192	33.01	-10.18
	256-QAM	1897.5	0.10	1 / 1	19.79	19.89	0.097	33.01	-13.12
40 MHz	$\pi/2$ BPSK	1870.0	0.10	1 / 214	24.51	24.61	0.289	33.01	-8.40
		1882.5	0.10	1 / 214	24.70	24.80	0.302	33.01	-8.21
		1895.0	0.10	1 / 1	24.65	24.75	0.299	33.01	-8.26
	QPSK	1870.0	0.10	1 / 108	24.63	24.73	0.297	33.01	-8.28
		1882.5	0.10	1 / 214	24.69	24.79	0.301	33.01	-8.22
		1895.0	0.10	1 / 214	24.63	24.73	0.297	33.01	-8.28
	16-QAM	1895.0	0.10	1 / 214	23.73	23.83	0.242	33.01	-9.18
	64-QAM	1895.0	0.10	1 / 214	22.73	22.83	0.192	33.01	-10.18
	256-QAM	1882.5	0.10	1 / 1	19.79	19.89	0.097	33.01	-13.12

Table 7-14. Antenna 3b EIRP Data (NR Band n25)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 188 of 219

V2.2 09/07/2023

NR Band n2

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	1852.5	0.10	1 / 12	24.69	24.79	0.301	33.01	-8.22
		1880.0	0.10	1 / 23	24.59	24.69	0.294	33.01	-8.32
		1907.5	0.10	1 / 1	24.60	24.70	0.295	33.01	-8.31
	QPSK	1852.5	0.10	1 / 23	24.46	24.56	0.286	33.01	-8.45
		1880.0	0.10	1 / 23	24.70	24.80	0.302	33.01	-8.21
		1907.5	0.10	1 / 23	24.48	24.58	0.287	33.01	-8.43
	16-QAM	1880.0	0.10	1 / 23	23.67	23.77	0.238	33.01	-9.24
	64-QAM	1852.5	0.10	1 / 12	22.61	22.71	0.187	33.01	-10.30
	256-QAM	1852.5	0.10	1 / 12	19.79	19.89	0.097	33.01	-13.12
10 MHz	$\pi/2$ BPSK	1855.0	0.10	1 / 50	24.70	24.80	0.302	33.01	-8.21
		1880.0	0.10	1 / 25	24.55	24.65	0.292	33.01	-8.36
		1905.0	0.10	1 / 25	24.54	24.64	0.291	33.01	-8.37
	QPSK	1855.0	0.10	1 / 50	24.68	24.78	0.301	33.01	-8.23
		1880.0	0.10	1 / 50	24.63	24.73	0.297	33.01	-8.28
		1905.0	0.10	1 / 1	24.58	24.68	0.294	33.01	-8.33
	16-QAM	1905.0	0.10	1 / 25	23.77	23.87	0.244	33.01	-9.14
	64-QAM	1880.0	0.10	1 / 50	22.74	22.84	0.192	33.01	-10.17
	256-QAM	1855.0	0.10	1 / 1	19.77	19.87	0.097	33.01	-13.14
15 MHz	$\pi/2$ BPSK	1857.5	0.10	1 / 77	24.46	24.56	0.286	33.01	-8.45
		1880.0	0.10	1 / 1	24.64	24.74	0.298	33.01	-8.27
		1902.5	0.10	1 / 77	24.49	24.59	0.288	33.01	-8.42
	QPSK	1857.5	0.10	1 / 36	24.68	24.78	0.301	33.01	-8.23
		1880.0	0.10	1 / 36	24.70	24.80	0.302	33.01	-8.21
		1902.5	0.10	1 / 36	24.62	24.72	0.296	33.01	-8.29
	16-QAM	1880.0	0.10	1 / 77	23.71	23.81	0.240	33.01	-9.20
	64-QAM	1857.5	0.10	1 / 1	22.72	22.82	0.191	33.01	-10.19
	256-QAM	1902.5	0.10	1 / 77	19.89	19.99	0.100	33.01	-13.02
20 MHz	$\pi/2$ BPSK	1860.0	0.10	1 / 1	24.70	24.80	0.302	33.01	-8.21
		1880.0	0.10	1 / 50	24.61	24.71	0.296	33.01	-8.30
		1900.0	0.10	1 / 104	24.69	24.79	0.301	33.01	-8.22
	QPSK	1860.0	0.10	1 / 104	24.65	24.75	0.299	33.01	-8.26
		1880.0	0.10	1 / 50	24.70	24.80	0.302	33.01	-8.21
		1900.0	0.10	1 / 1	24.46	24.56	0.286	33.01	-8.45
	16-QAM	1880.0	0.10	1 / 104	23.74	23.84	0.242	33.01	-9.17
	64-QAM	1860.0	0.10	1 / 50	22.64	22.74	0.188	33.01	-10.27
	256-QAM	1880.0	0.10	1 / 104	19.77	19.87	0.097	33.01	-13.14

Table 7-15. Antenna 3b EIRP Data (NR Band n2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 189 of 219

V2.2 09/07/2023

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	24.45	0.10	24.55	0.285	33.01	-8.46
1880.00	WCDMA1900	24.59	0.10	24.69	0.294	33.01	-8.32
1907.60	WCDMA1900	24.57	0.10	24.67	0.293	33.01	-8.34

Table 7-16. Antenna 3b EIRP Data (WCDMA PCS)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 190 of 219

V2.2 09/07/2023

7.6.4 Antenna 2 – EIRP

LTE Band 25

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	1850.7	2.40	1 / 0	23.67	26.07	0.405	33.01	-6.94
		1882.5	2.40	1 / 5	23.48	25.88	0.387	33.01	-7.13
		1914.3	2.40	1 / 0	23.64	26.04	0.402	33.01	-6.97
	16-QAM	1882.5	2.40	1 / 3	22.65	25.05	0.320	33.01	-7.96
		1882.5	2.40	1 / 5	21.70	24.10	0.257	33.01	-8.91
		1914.3	2.40	1 / 3	18.72	21.12	0.129	33.01	-11.89
3 MHz	QPSK	1851.5	2.40	1 / 0	23.69	26.09	0.406	33.01	-6.92
		1882.5	2.40	1 / 14	23.70	26.10	0.407	33.01	-6.91
		1913.5	2.40	1 / 14	23.67	26.07	0.405	33.01	-6.94
	16-QAM	1851.5	2.40	1 / 7	22.76	25.16	0.328	33.01	-7.85
		1913.5	2.40	1 / 7	21.62	24.02	0.252	33.01	-8.99
		1913.5	2.40	1 / 7	18.85	21.25	0.133	33.01	-11.76
5 MHz	QPSK	1852.5	2.40	1 / 12	23.40	25.80	0.380	33.01	-7.21
		1882.5	2.40	1 / 12	23.67	26.07	0.405	33.01	-6.94
		1912.5	2.40	1 / 12	23.40	25.80	0.380	33.01	-7.21
	16-QAM	1912.5	2.40	1 / 0	22.70	25.10	0.324	33.01	-7.91
		1912.5	2.40	1 / 24	21.66	24.06	0.255	33.01	-8.95
		1912.5	2.40	1 / 12	18.72	21.12	0.129	33.01	-11.89
10 MHz	QPSK	1855.0	2.40	1 / 49	23.63	26.03	0.401	33.01	-6.98
		1882.5	2.40	1 / 49	23.59	25.99	0.397	33.01	-7.02
		1910.0	2.40	1 / 25	23.62	26.02	0.400	33.01	-6.99
	16-QAM	1882.5	2.40	1 / 0	22.69	25.09	0.323	33.01	-7.92
		1855.0	2.40	1 / 49	21.75	24.15	0.260	33.01	-8.86
		1910.0	2.40	1 / 49	18.79	21.19	0.132	33.01	-11.82
15 MHz	QPSK	1857.5	2.40	1 / 74	23.57	25.97	0.395	33.01	-7.04
		1882.5	2.40	1 / 0	23.65	26.05	0.403	33.01	-6.96
		1907.5	2.40	1 / 37	23.59	25.99	0.397	33.01	-7.02
	16-QAM	1857.5	2.40	1 / 37	22.66	25.06	0.321	33.01	-7.95
		1882.5	2.40	1 / 37	21.71	24.11	0.258	33.01	-8.90
		1907.5	2.40	1 / 0	18.82	21.22	0.132	33.01	-11.79
20 MHz	QPSK	1860.0	2.40	1 / 99	23.50	25.90	0.389	33.01	-7.11
		1882.5	2.40	1 / 50	23.56	25.96	0.394	33.01	-7.05
		1905.0	2.40	1 / 99	23.70	26.10	0.407	33.01	-6.91
	16-QAM	1905.0	2.40	1 / 50	22.66	25.06	0.321	33.01	-7.95
		1860.0	2.40	1 / 99	21.67	24.07	0.255	33.01	-8.94
		1905.0	2.40	1 / 50	18.81	21.21	0.132	33.01	-11.80

Table 7-17. Antenna 2 EIRP Data (LTE Band 25)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 191 of 219

V2.2 09/07/2023

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LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	2.40	1 / 5	23.61	26.01	0.399	33.01	-7.00
		1880.0	2.40	1 / 3	23.58	25.98	0.396	33.01	-7.03
		1909.3	2.40	1 / 5	23.58	25.98	0.396	33.01	-7.03
	16-QAM	1880.0	2.40	1 / 5	22.67	25.07	0.321	33.01	-7.94
	64-QAM	1850.7	2.40	1 / 0	21.69	24.09	0.256	33.01	-8.92
	256-QAM	1880.0	2.40	1 / 3	18.77	21.17	0.131	33.01	-11.84
3 MHz	QPSK	1851.5	2.40	1 / 7	23.53	25.93	0.392	33.01	-7.08
		1880.0	2.40	1 / 0	23.70	26.10	0.407	33.01	-6.91
		1908.5	2.40	1 / 7	23.70	26.10	0.407	33.01	-6.91
	16-QAM	1908.5	2.40	1 / 7	22.61	25.01	0.317	33.01	-8.00
	64-QAM	1908.5	2.40	1 / 0	21.65	24.05	0.254	33.01	-8.96
	256-QAM	1880.0	2.40	1 / 0	18.73	21.13	0.130	33.01	-11.88
5 MHz	QPSK	1852.5	2.40	1 / 12	23.48	25.88	0.387	33.01	-7.13
		1880.0	2.40	1 / 12	23.63	26.03	0.401	33.01	-6.98
		1907.5	2.40	1 / 0	23.60	26.00	0.398	33.01	-7.01
	16-QAM	1880.0	2.40	1 / 0	22.69	25.09	0.323	33.01	-7.92
	64-QAM	1907.5	2.40	1 / 12	21.70	24.10	0.257	33.01	-8.91
	256-QAM	1880.0	2.40	1 / 12	18.76	21.16	0.131	33.01	-11.85
10 MHz	QPSK	1855.0	2.40	1 / 0	23.68	26.08	0.406	33.01	-6.93
		1880.0	2.40	1 / 0	23.69	26.09	0.406	33.01	-6.92
		1905.0	2.40	1 / 25	23.65	26.05	0.403	33.01	-6.96
	16-QAM	1880.0	2.40	1 / 49	22.68	25.08	0.322	33.01	-7.93
	64-QAM	1880.0	2.40	1 / 25	21.58	23.98	0.250	33.01	-9.03
	256-QAM	1855.0	2.40	1 / 25	18.68	21.08	0.128	33.01	-11.93
15 MHz	QPSK	1857.5	2.40	1 / 37	23.66	26.06	0.404	33.01	-6.95
		1880.0	2.40	1 / 74	23.37	25.77	0.378	33.01	-7.24
		1902.5	2.40	1 / 37	23.60	26.00	0.398	33.01	-7.01
	16-QAM	1880.0	2.40	1 / 0	22.72	25.12	0.325	33.01	-7.89
	64-QAM	1880.0	2.40	1 / 37	21.79	24.19	0.262	33.01	-8.82
	256-QAM	1880.0	2.40	1 / 0	18.88	21.28	0.134	33.01	-11.73
20 MHz	QPSK	1860.0	2.40	1 / 99	23.58	25.98	0.396	33.01	-7.03
		1880.0	2.40	1 / 0	23.55	25.95	0.394	33.01	-7.06
		1900.0	2.40	1 / 50	23.70	26.10	0.407	33.01	-6.91
	16-QAM	1860.0	2.40	1 / 50	22.61	25.01	0.317	33.01	-8.00
	64-QAM	1880.0	2.40	1 / 0	21.62	24.02	0.252	33.01	-8.99
	256-QAM	1900.0	2.40	1 / 99	18.79	21.19	0.132	33.01	-11.82

Table 7-18. Antenna 2 EIRP Data (LTE Band 2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 192 of 219

V2.2 09/07/2023

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NR Band n25

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	1852.5	2.40	1 / 1	23.70	26.10	0.407	33.01	-6.91
		1882.5	2.40	1 / 23	23.68	26.08	0.406	33.01	-6.93
		1912.5	2.40	1 / 1	23.66	26.06	0.404	33.01	-6.95
	QPSK	1852.5	2.40	1 / 1	23.53	25.93	0.392	33.01	-7.08
		1882.5	2.40	1 / 23	23.62	26.02	0.400	33.01	-6.99
		1912.5	2.40	1 / 12	23.47	25.87	0.386	33.01	-7.14
	16-QAM	1882.5	2.40	1 / 12	22.73	25.13	0.326	33.01	-7.88
	64-QAM	1912.5	2.40	1 / 12	21.54	23.94	0.248	33.01	-9.07
10 MHz	$\pi/2$ BPSK	1855.0	2.40	1 / 25	23.65	26.05	0.403	33.01	-6.96
		1882.5	2.40	1 / 25	23.45	25.85	0.385	33.01	-7.16
		1910.0	2.40	1 / 50	23.52	25.92	0.391	33.01	-7.09
	QPSK	1855.0	2.40	1 / 50	23.62	26.02	0.400	33.01	-6.99
		1882.5	2.40	1 / 1	23.70	26.10	0.407	33.01	-6.91
		1910.0	2.40	1 / 50	23.37	25.77	0.378	33.01	-7.24
	16-QAM	1855.0	2.40	1 / 50	22.54	24.94	0.312	33.01	-8.07
	64-QAM	1855.0	2.40	1 / 25	21.57	23.97	0.249	33.01	-9.04
15 MHz	$\pi/2$ BPSK	1882.5	2.40	1 / 50	18.77	21.17	0.131	33.01	-11.84
		1857.5	2.40	1 / 36	23.29	25.69	0.371	33.01	-7.32
		1882.5	2.40	1 / 36	23.64	26.04	0.402	33.01	-6.97
	QPSK	1907.5	2.40	1 / 1	23.45	25.85	0.385	33.01	-7.16
		1857.5	2.40	1 / 1	23.70	26.10	0.407	33.01	-6.91
		1882.5	2.40	1 / 77	23.66	26.06	0.404	33.01	-6.95
	16-QAM	1907.5	2.40	1 / 77	23.61	26.01	0.399	33.01	-7.00
	64-QAM	1882.5	2.40	1 / 1	22.71	25.11	0.324	33.01	-7.90
20 MHz	$\pi/2$ BPSK	1857.5	2.40	1 / 77	21.63	24.03	0.253	33.01	-8.98
		1857.5	2.40	1 / 1	18.75	21.15	0.130	33.01	-11.86
		1860.0	2.40	1 / 50	23.60	26.00	0.398	33.01	-7.01
	QPSK	1882.5	2.40	1 / 50	23.55	25.95	0.394	33.01	-7.06
		1905.0	2.40	1 / 104	23.67	26.07	0.405	33.01	-6.94
		1860.0	2.40	1 / 1	23.66	26.06	0.404	33.01	-6.95
	16-QAM	1882.5	2.40	1 / 104	22.66	25.06	0.321	33.01	-7.95
	64-QAM	1905.0	2.40	1 / 104	21.51	23.91	0.246	33.01	-9.10
25 MHz	$\pi/2$ BPSK	1882.5	2.40	1 / 1	18.80	21.20	0.132	33.01	-11.81
		1862.5	2.40	1 / 1	23.70	26.10	0.407	33.01	-6.91
		1882.5	2.40	1 / 131	23.64	26.04	0.402	33.01	-6.97
	QPSK	1902.5	2.40	1 / 131	23.30	25.70	0.372	33.01	-7.31
		1862.5	2.40	1 / 131	23.65	26.05	0.403	33.01	-6.96
		1882.5	2.40	1 / 64	23.52	25.92	0.391	33.01	-7.09
	16-QAM	1902.5	2.40	1 / 64	23.53	25.93	0.392	33.01	-7.08
	64-QAM	1882.5	2.40	1 / 1	22.67	25.07	0.321	33.01	-7.94
30 MHz	$\pi/2$ BPSK	1902.5	2.40	1 / 1	21.69	24.09	0.256	33.01	-8.92
		1882.5	2.40	1 / 1	18.75	21.15	0.130	33.01	-11.86
		1865.0	2.40	1 / 80	23.66	26.06	0.404	33.01	-6.95
	QPSK	1882.5	2.40	1 / 1	23.65	26.05	0.403	33.01	-6.96
		1900.0	2.40	1 / 158	23.62	26.02	0.400	33.01	-6.99
		1865.0	2.40	1 / 158	23.55	25.95	0.394	33.01	-7.06
	16-QAM	1882.5	2.40	1 / 1	23.70	26.10	0.407	33.01	-6.91
	64-QAM	1900.0	2.40	1 / 158	22.66	25.06	0.321	33.01	-7.95
35 MHz	$\pi/2$ BPSK	1882.5	2.40	1 / 158	21.68	24.08	0.256	33.01	-8.93
		1900.0	2.40	1 / 158	18.79	21.19	0.132	33.01	-11.82
		1867.5	2.40	1 / 186	23.61	26.01	0.399	33.01	-7.00
	QPSK	1882.5	2.40	1 / 90	23.70	26.10	0.407	33.01	-6.91
		1897.5	2.40	1 / 90	23.63	26.03	0.401	33.01	-6.98
		1867.5	2.40	1 / 1	23.62	26.02	0.400	33.01	-6.99
	16-QAM	1882.5	2.40	1 / 1	23.47	25.87	0.386	33.01	-7.14
	64-QAM	1897.5	2.40	1 / 1	23.53	25.93	0.392	33.01	-7.08
40 MHz	$\pi/2$ BPSK	1867.5	2.40	1 / 1	22.70	25.10	0.324	33.01	-7.91
		1882.5	2.40	1 / 186	21.69	24.09	0.256	33.01	-8.92
		1882.5	2.40	1 / 186	18.78	21.18	0.131	33.01	-11.83
	QPSK	1870.0	2.40	1 / 1	23.70	26.10	0.407	33.01	-6.91
		1882.5	2.40	1 / 214	23.32	25.72	0.373	33.01	-7.29
		1895.0	2.40	1 / 108	23.35	25.75	0.376	33.01	-7.26
	16-QAM	1870.0	2.40	1 / 214	23.59	25.99	0.397	33.01	-7.02
	64-QAM	1882.5	2.40	1 / 108	23.63	26.03	0.401	33.01	-6.98
256-QAM	QPSK	1895.0	2.40	1 / 1	23.60	26.00	0.398	33.01	-7.01
		1870.0	2.40	1 / 1	22.68	25.08	0.322	33.01	-7.93
		1895.0	2.40	1 / 108	21.61	24.01	0.252	33.01	-9.00
	256-QAM	1870.0	2.40	1 / 1	18.75	21.15	0.130	33.01	-11.86

Table 7-19. Antenna 2 EIRP Data (NR Band n25)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 193 of 219

V2.2 09/07/2023

NR Band n2

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	1852.5	2.40	1 / 23	23.59	25.99	0.397	33.01	-7.02
		1880.0	2.40	1 / 12	23.57	25.97	0.395	33.01	-7.04
		1907.5	2.40	1 / 23	23.70	26.10	0.407	33.01	-6.91
	QPSK	1852.5	2.40	1 / 23	23.49	25.89	0.388	33.01	-7.12
		1880.0	2.40	1 / 23	23.70	26.10	0.407	33.01	-6.91
		1907.5	2.40	1 / 23	23.59	25.99	0.397	33.01	-7.02
	16-QAM	1880.0	2.40	1 / 1	22.72	25.12	0.325	33.01	-7.89
	64-QAM	1852.5	2.40	1 / 23	21.70	24.10	0.257	33.01	-8.91
	256-QAM	1880.0	2.40	1 / 1	18.77	21.17	0.131	33.01	-11.84
10 MHz	$\pi/2$ BPSK	1855.0	2.40	1 / 1	23.52	25.92	0.391	33.01	-7.09
		1880.0	2.40	1 / 25	23.43	25.83	0.383	33.01	-7.18
		1905.0	2.40	1 / 1	23.65	26.05	0.403	33.01	-6.96
	QPSK	1855.0	2.40	1 / 25	23.68	26.08	0.406	33.01	-6.93
		1880.0	2.40	1 / 50	23.66	26.06	0.404	33.01	-6.95
		1905.0	2.40	1 / 25	23.70	26.10	0.407	33.01	-6.91
	16-QAM	1880.0	2.40	1 / 50	22.70	25.10	0.324	33.01	-7.91
	64-QAM	1905.0	2.40	1 / 50	21.70	24.10	0.257	33.01	-8.91
	256-QAM	1855.0	2.40	1 / 50	18.77	21.17	0.131	33.01	-11.84
15 MHz	$\pi/2$ BPSK	1857.5	2.40	1 / 1	23.66	26.06	0.404	33.01	-6.95
		1880.0	2.40	1 / 1	23.56	25.96	0.394	33.01	-7.05
		1902.5	2.40	1 / 1	23.62	26.02	0.400	33.01	-6.99
	QPSK	1857.5	2.40	1 / 36	23.70	26.10	0.407	33.01	-6.91
		1880.0	2.40	1 / 36	23.60	26.00	0.398	33.01	-7.01
		1902.5	2.40	1 / 1	23.65	26.05	0.403	33.01	-6.96
	16-QAM	1902.5	2.40	1 / 36	22.59	24.99	0.316	33.01	-8.02
	64-QAM	1857.5	2.40	1 / 77	21.59	23.99	0.251	33.01	-9.02
	256-QAM	1857.5	2.40	1 / 1	18.81	21.21	0.132	33.01	-11.80
20 MHz	$\pi/2$ BPSK	1860.0	2.40	1 / 104	23.45	25.85	0.385	33.01	-7.16
		1880.0	2.40	1 / 50	23.63	26.03	0.401	33.01	-6.98
		1900.0	2.40	1 / 50	23.61	26.01	0.399	33.01	-7.00
	QPSK	1860.0	2.40	1 / 104	23.70	26.10	0.407	33.01	-6.91
		1880.0	2.40	1 / 50	23.57	25.97	0.395	33.01	-7.04
		1900.0	2.40	1 / 1	23.62	26.02	0.400	33.01	-6.99
	16-QAM	1900.0	2.40	1 / 50	22.53	24.93	0.311	33.01	-8.08
	64-QAM	1860.0	2.40	1 / 50	21.53	23.93	0.247	33.01	-9.08
	256-QAM	1880.0	2.40	1 / 104	18.79	21.19	0.132	33.01	-11.82

Table 7-20. Antenna 2 EIRP Data (NR Band n2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 194 of 219

V2.2 09/07/2023

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	23.65	2.40	26.05	0.403	33.01	-6.96
1880.00	WCDMA1900	23.68	2.40	26.08	0.406	33.01	-6.93
1907.60	WCDMA1900	23.69	2.40	26.09	0.406	33.01	-6.92

Table 7-21. Antenna 2 EIRP Data (WCDMA PCS)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 195 of 219

V2.2 09/07/2023

7.7 Radiated Spurious Emissions

§2.1053, 24.238(a)

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 tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

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: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 196 of 219

V2.2 09/07/2023

Test Setup

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

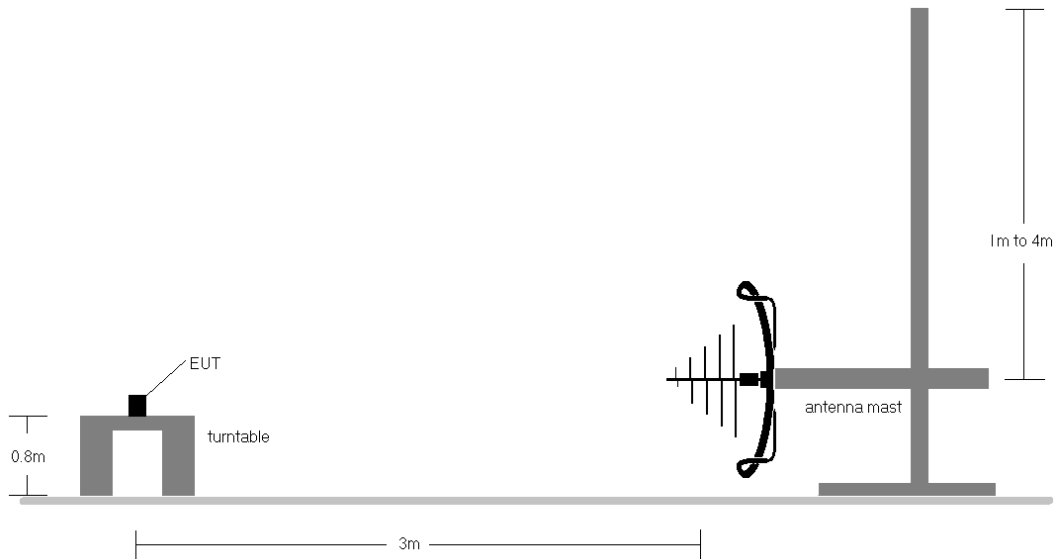


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

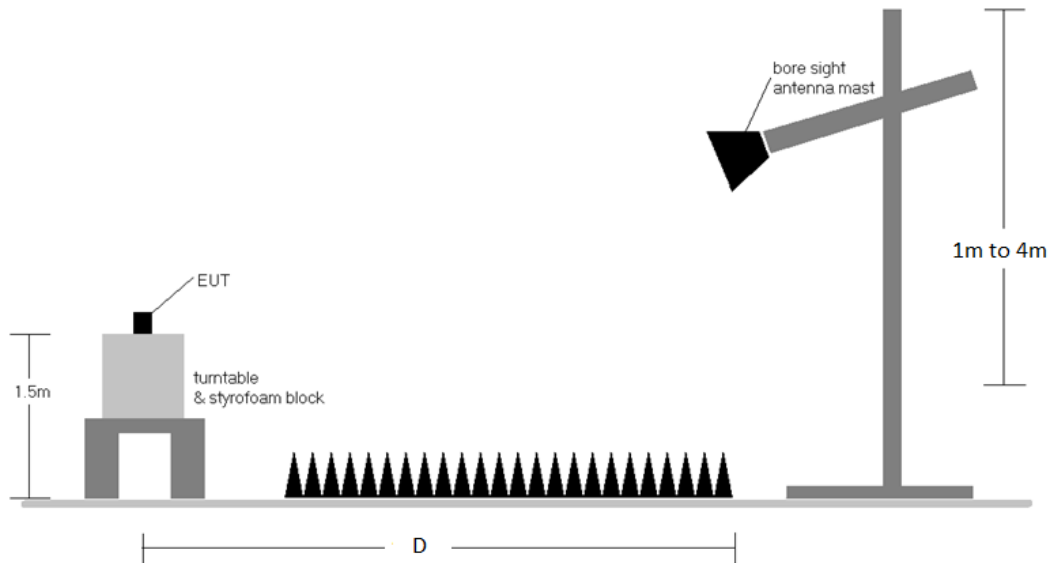


Figure 7-12. Test Instrument & Measurement Setup >1 GHz

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 197 of 219

Test Notes

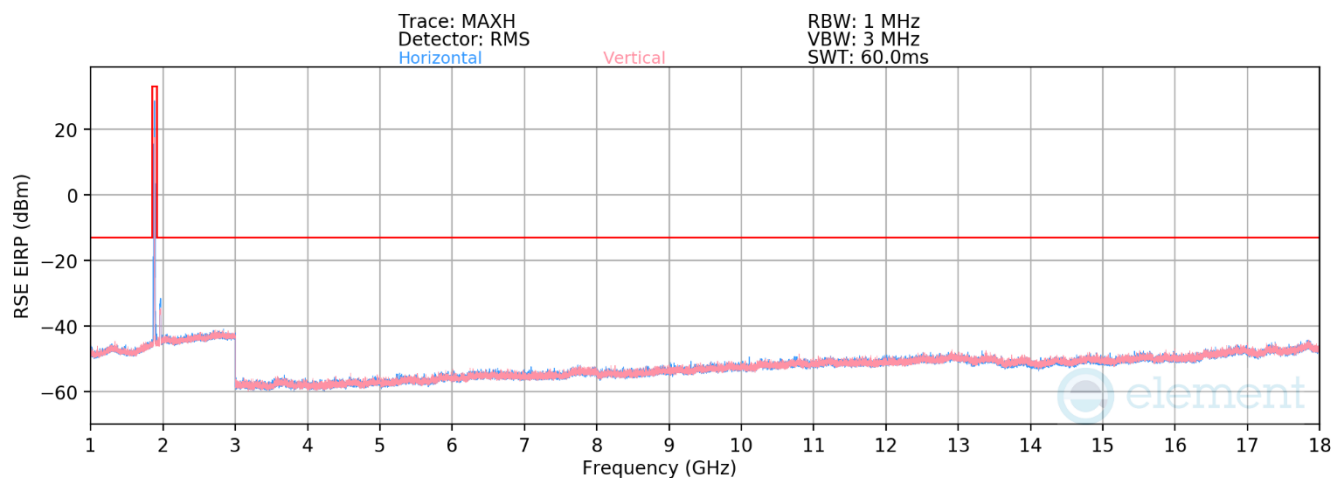
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. 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".
3. 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.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. No significant emissions were found for below 1GHz and Above 18GHz measurement.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. 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.
10. 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.
11. NR band n25 overlaps the entire frequency range of NR band 2. Therefore, the radiated emissions data of NR band n25 provided in this report covers NR band n2.

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 198 of 219

V2.2 09/07/2023

7.7.1 Antenna 4 – Radiated Spurious Emission Measurement

LTE Band 25/2



Plot 7-302. Radiated Spurious Plot (LTE Band 25/2)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 199 of 219

V2.2 09/07/2023

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-78.34	3.71	32.37	-62.89	-13.00	-49.89
5580.0	H	-	-	-79.99	6.28	33.28	-61.97	-13.00	-48.97
7440.0	V	-	-	-81.48	9.48	35.00	-60.26	-13.00	-47.26

Table 7-22. Antenna 4 Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-77.83	3.00	32.17	-63.08	-13.00	-50.08
5647.5	H	-	-	-80.02	6.12	33.10	-62.16	-13.00	-49.16
7530.0	H	-	-	-81.51	9.04	34.53	-60.73	-13.00	-47.73

Table 7-23. Antenna 4 Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

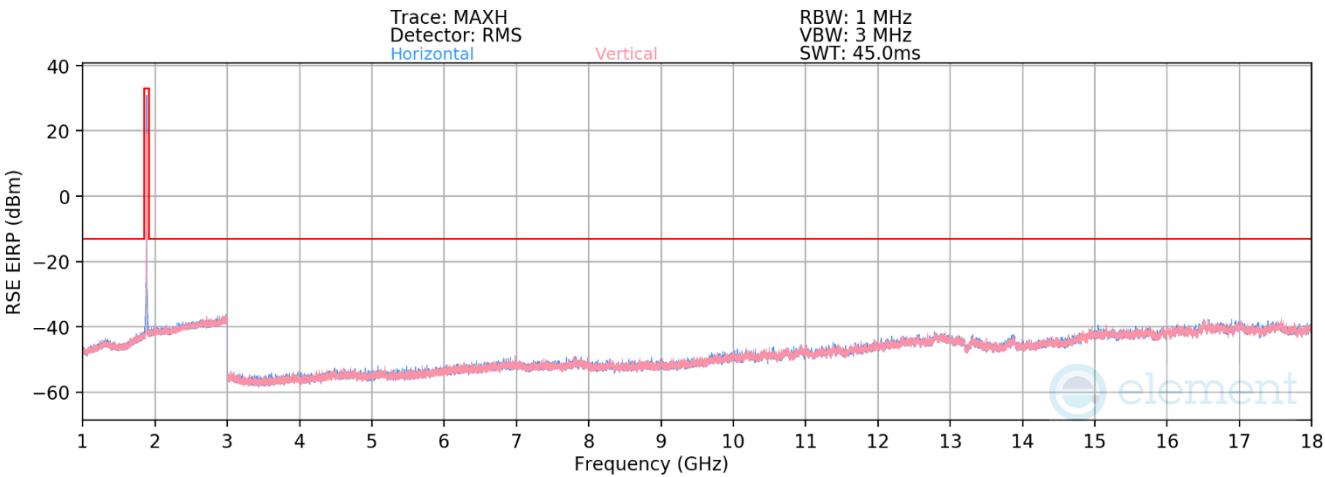
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	V	-	-	-77.76	2.50	31.74	-63.51	-13.00	-50.51
5715.00	V	-	-	-80.07	6.66	33.59	-61.66	-13.00	-48.66
7620.00	H	-	-	-81.39	9.66	35.27	-59.99	-13.00	-46.99

Table 7-24. Antenna 4 Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 200 of 219

V2.2 09/07/2023

NR Band n25/2



Plot 7-303. Radiated Spurious Plot (NR Band n25/2)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 201 of 219

V2.2 09/07/2023

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Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-79.36	5.15	32.80	-62.46	-13.00	-49.46
5580.0	V	-	-	-81.10	8.84	34.74	-60.52	-13.00	-47.52
7440.0	V	-	-	-81.54	11.21	36.67	-58.59	-13.00	-45.59

Table 7-25. Antenna 4 Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-79.11	5.11	33.00	-62.26	-13.00	-49.26
5647.5	H	-	-	-81.04	9.01	34.97	-60.29	-13.00	-47.29
7530.0	H	-	-	-81.72	11.53	36.81	-58.45	-13.00	-45.45

Table 7-26. Antenna 4 Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

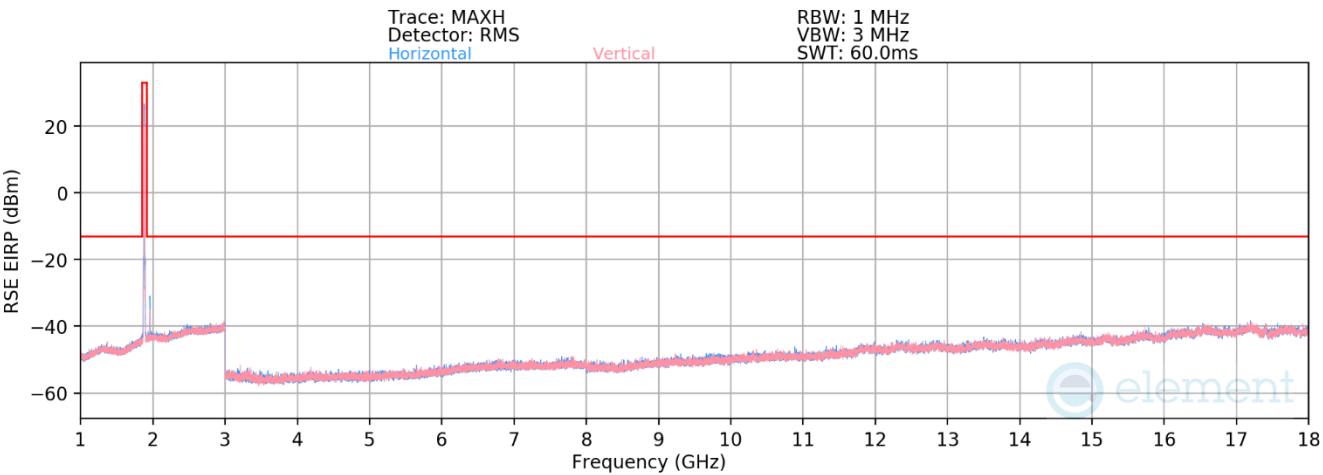
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.0	H	-	-	-79.32	5.37	33.05	-62.21	-13.00	-49.21
5715.0	H	-	-	-81.17	9.13	34.96	-60.30	-13.00	-47.30
7620.0	V	-	-	-81.47	11.73	37.26	-58.00	-13.00	-45.00

Table 7-27. Antenna 4 Radiated Spurious Data (NR Band n25/2 – High Channel)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 202 of 219

V2.2 09/07/2023

WCDMA PCS



Plot 7-304. Radiated Spurious Plot (WCDMA PCS)

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 203 of 219

V2.2 09/07/2023

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.8	H	-	-	-77.98	5.24	34.26	-61.00	-13.00	-48.00
5557.2	V	-	-	-80.00	8.71	35.71	-59.55	-13.00	-46.55
7409.6	V	-	-	-79.88	10.55	37.67	-57.58	-13.00	-44.58

Table 7-28. Antenna 4 Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.0	H	-	-	-78.34	6.02	34.68	-60.58	-13.00	-47.58
5640.0	V	-	-	-79.42	8.48	36.06	-59.20	-13.00	-46.20
7520.0	H	-	-	-79.89	10.72	37.83	-57.43	-13.00	-44.43

Table 7-29. Antenna 4 Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.2	H	-	-	-78.43	5.63	34.21	-61.05	-13.00	-48.05
5722.8	H	-	-	-79.69	8.81	36.12	-59.13	-13.00	-46.13
7630.4	H	-	-	-80.22	11.11	37.89	-57.37	-13.00	-44.37

Table 7-30. Antenna 4 Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 204 of 219

V2.2 09/07/2023

7.7.2 Antenna 1b – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-76.65	1.26	31.61	-63.64	-13.00	-50.64
5580.0	V	-	-	-78.41	4.82	33.41	-61.85	-13.00	-48.85
7440.0	H	-	-	-78.21	5.96	34.75	-60.51	-13.00	-47.51

Table 7-31. Antenna 1b Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	H	-	-	-76.84	1.42	31.58	-63.68	-13.00	-50.68
5647.5	V	-	-	-77.70	4.45	33.76	-61.50	-13.00	-48.50
7530.0	V	-	-	-78.13	6.05	34.92	-60.34	-13.00	-47.34

Table 7-32. Antenna 1b Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.00	V	-	-	-76.21	1.31	32.10	-63.16	-13.00	-50.16
5715.00	H	-	-	-77.84	4.39	33.55	-61.71	-13.00	-48.71
7620.00	V	-	-	-77.75	5.91	35.16	-60.10	-13.00	-47.10

Table 7-33. Antenna 1b Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 205 of 219

V2.2 09/07/2023

NR Band n25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-79.42	5.25	32.82	-62.44	-13.00	-49.44
5580.0	V	-	-	-81.11	8.93	34.81	-60.44	-13.00	-47.44
7440.0	V	-	-	-81.24	11.21	36.97	-58.29	-13.00	-45.29

Table 7-34. Antenna 1b Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	H	-	-	-79.53	5.41	32.88	-62.38	-13.00	-49.38
5647.5	V	-	-	-80.49	8.95	35.46	-59.80	-13.00	-46.80
7530.0	V	-	-	-81.42	11.44	37.02	-58.24	-13.00	-45.24

Table 7-35. Antenna 1b Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.0	V	-	-	-79.04	5.25	33.21	-62.05	-13.00	-49.05
5715.0	V	-	-	-81.07	9.05	34.98	-60.28	-13.00	-47.28
7620.0	H	-	-	-81.21	11.43	37.23	-58.03	-13.00	-45.03

Table 7-36. Antenna 1b Radiated Spurious Data (NR Band n25/2 – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 206 of 219

V2.2 09/07/2023

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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.8	H	-	-	-77.69	5.23	34.54	-60.71	-13.00	-47.71
5557.2	V	-	-	-79.65	8.41	35.76	-59.50	-13.00	-46.50
7409.6	H	-	-	-80.05	10.67	37.62	-57.64	-13.00	-44.64

Table 7-37. Antenna 1b Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.0	V	-	-	-78.70	6.02	34.32	-60.94	-13.00	-47.94
5640.0	V	-	-	-79.95	8.77	35.82	-59.44	-13.00	-46.44
7520.0	V	-	-	-79.91	10.67	37.76	-57.50	-13.00	-44.50

Table 7-38. Antenna 1b Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.2	H	-	-	-78.38	5.50	34.12	-61.14	-13.00	-48.14
5722.8	V	-	-	-79.54	8.81	36.27	-58.98	-13.00	-45.98
7630.4	V	-	-	-79.83	10.82	37.99	-57.27	-13.00	-44.27

Table 7-39. Antenna 1b Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 207 of 219

V2.2 09/07/2023

7.7.3 Antenna 3b – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-76.36	1.35	31.99	-63.27	-13.00	-50.27
5580.0	V	-	-	-77.98	4.78	33.80	-61.46	-13.00	-48.46
7440.0	H	-	-	-77.88	5.96	35.08	-60.18	-13.00	-47.18

Table 7-40. Antenna 3b Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-76.22	1.36	32.13	-63.12	-13.00	-50.12
5647.5	H	-	-	-77.48	4.45	33.97	-61.28	-13.00	-48.28
7530.0	H	-	-	-77.56	6.14	35.57	-59.69	-13.00	-46.69

Table 7-41. Antenna 3b Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.00	V	-	-	-77.57	2.70	32.13	-63.13	-13.00	-50.13
5715.00	V	-	-	-80.27	6.66	33.39	-61.87	-13.00	-48.87
7620.00	H	-	-	-81.16	9.66	35.50	-59.75	-13.00	-46.75

Table 7-42. Antenna 3b Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 208 of 219

V2.2 09/07/2023

NR Band n25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-79.57	5.25	32.68	-62.58	-13.00	-49.58
5580.0	V	-	-	-80.91	8.83	34.92	-60.34	-13.00	-47.34
7440.0	V	-	-	-81.51	11.21	36.70	-58.56	-13.00	-45.56

Table 7-43. Antenna 3b Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	H	-	-	-79.51	5.41	32.90	-62.36	-13.00	-49.36
5647.5	V	-	-	-81.18	9.01	34.83	-60.42	-13.00	-47.42
7530.0	V	-	-	-81.79	11.53	36.75	-58.51	-13.00	-45.51

Table 7-44. Antenna 3b Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.0	V	-	-	-79.29	5.41	33.12	-62.13	-13.00	-49.13
5715.0	V	-	-	-81.24	9.11	34.87	-60.39	-13.00	-47.39
7620.0	V	-	-	-81.40	11.43	37.03	-58.22	-13.00	-45.22

Table 7-45. Antenna 3b Radiated Spurious Data (NR Band n25/2 – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 209 of 219

V2.2 09/07/2023

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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.8	H	-	-	-78.58	6.02	34.44	-60.82	-13.00	-47.82
5557.2	H	-	-	-79.85	8.41	35.55	-59.70	-13.00	-46.70
7409.6	V	-	-	-80.01	10.67	37.66	-57.59	-13.00	-44.59

Table 7-46. Antenna 3b Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.0	V	-	-	-78.48	6.02	34.54	-60.72	-13.00	-47.72
5640.0	V	-	-	-79.98	8.77	35.79	-59.47	-13.00	-46.47
7520.0	V	-	-	-79.96	10.72	37.76	-57.49	-13.00	-44.49

Table 7-47. Antenna 3b Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.2	H	-	-	-78.18	5.50	34.32	-60.94	-13.00	-47.94
5722.8	H	-	-	-79.59	8.81	36.22	-59.04	-13.00	-46.04
7630.4	V	-	-	-79.88	10.82	37.93	-57.32	-13.00	-44.32

Table 7-48. Antenna 3b Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 210 of 219

V2.2 09/07/2023

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7.7.4 Antenna 2 – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-78.00	3.49	32.48	-62.78	-13.00	-49.78
5580.0	H	-	-	-79.65	5.99	33.34	-61.92	-13.00	-48.92
7440.0	V	-	-	-81.60	9.57	34.97	-60.29	-13.00	-47.29

Table 7-49. Antenna 2 Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	H	-	-	-78.02	3.03	32.01	-63.24	-13.00	-50.24
5647.5	V	-	-	-79.71	5.97	33.26	-61.99	-13.00	-48.99
7530.0	V	-	-	-81.43	9.05	34.63	-60.63	-13.00	-47.63

Table 7-50. Antenna 2 Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.00	H	-	-	-77.32	2.56	32.24	-63.02	-13.00	-50.02
5715.00	H	-	-	-80.23	6.66	33.42	-61.83	-13.00	-48.83
7620.00	V	-	-	-81.23	9.66	35.43	-59.83	-13.00	-46.83

Table 7-51. Antenna 2 Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 211 of 219

V2.2 09/07/2023

NR Band n25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-79.33	5.15	32.83	-62.43	-13.00	-49.43
5580.0	V	-	-	-81.10	8.83	34.73	-60.53	-13.00	-47.53
7440.0	H	-	-	-81.43	11.21	36.78	-58.47	-13.00	-45.47

Table 7-52. Antenna 2 Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-79.51	5.25	32.73	-62.52	-13.00	-49.52
5647.5	V	-	-	-81.08	9.01	34.93	-60.33	-13.00	-47.33
7530.0	H	-	-	-81.27	11.44	37.16	-58.10	-13.00	-45.10

Table 7-53. Antenna 2 Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.0	V	-	-	-79.14	5.37	33.23	-62.03	-13.00	-49.03
5715.0	V	-	-	-81.10	9.05	34.95	-60.31	-13.00	-47.31
7620.0	V	-	-	-81.48	11.73	37.25	-58.01	-13.00	-45.01

Table 7-54. Antenna 2 Radiated Spurious Data (NR Band n25/2 – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 212 of 219

V2.2 09/07/2023

WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.8	V	-	-	-77.64	5.29	34.65	-60.61	-13.00	-47.61
5557.2	V	-	-	-79.78	8.41	35.63	-59.63	-13.00	-46.63
7409.6	H	-	-	-79.92	10.51	37.59	-57.67	-13.00	-44.67

Table 7-55. Antenna 2 Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.0	V	-	-	-78.28	6.02	34.73	-60.52	-13.00	-47.52
5640.0	H	-	-	-79.71	8.64	35.93	-59.32	-13.00	-46.32
7520.0	H	-	-	-79.93	10.60	37.67	-57.58	-13.00	-44.58

Table 7-56. Antenna 2 Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.2	H	-	-	-78.42	5.50	34.07	-61.18	-13.00	-48.18
5722.8	V	-	-	-79.55	8.81	36.26	-59.00	-13.00	-46.00
7630.4	H	-	-	-80.01	10.82	37.81	-57.45	-13.00	-44.45

Table 7-57. Antenna 2 Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA3269		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 213 of 219

V2.2 09/07/2023

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7.8 Frequency Stability / Temperature Variation

§2.1055, §24.235

Test Overview and Limit

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

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

For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

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

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 214 of 219

V2.2 09/07/2023

Test Setup

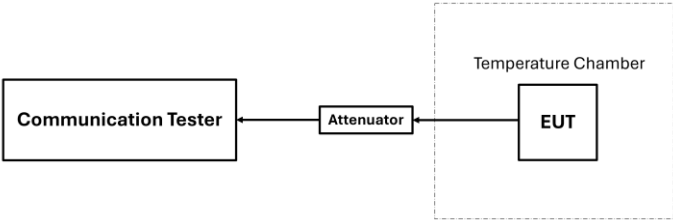


Figure 7-13. LTE Test Instrument & Measurement Setup

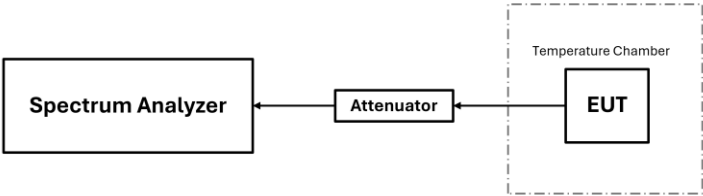


Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 215 of 219

V2.2 09/07/2023

Frequency Stability / Temperature Variation

LTE B25/2

Operating Band Lower Boundary (GHz)		1.850		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.85005965	-0.00005965
		- 20	1.85018816	-0.00018816
		- 10	1.85001749	-0.00001749
		0	1.85022187	-0.00022187
		+ 10	1.85070027	-0.00070027
		+ 20 (Ref)	1.85016221	-0.00016221
		+ 30	1.85094905	-0.00094905
		+ 40	1.85024924	-0.00024924
		+ 50	1.85029660	-0.00029660
Battery Endpoint	3.40	+ 20	1.85055532	-0.00055532

Table 7-58. LTE Band 25/2 Lower Boundary Frequency Stability Data

LTE B25/2

Operating Band Upper Boundary (GHz)		1.915		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.91405210	-0.00094790
		- 20	1.91497504	-0.00002496
		- 10	1.91486990	-0.00013010
		0	1.91420679	-0.00079321
		+ 10	1.91445999	-0.00054001
		+ 20 (Ref)	1.91428149	-0.00071851
		+ 30	1.91462912	-0.00037088
		+ 40	1.91478997	-0.00021003
		+ 50	1.91426197	-0.00073803
Battery Endpoint	3.40	+ 20	1.91497904	-0.00002096

Table 7-59. LTE Band 25/2 Upper Boundary Frequency Stability Data

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 216 of 219

V2.2 09/07/2023

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NR Band n25/2

NR Band n25/2				
Operating Band Lower Boundary (GHz)			1.850	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.85011903	-0.00011903
		- 20	1.85079173	-0.00079173
		- 10	1.85098182	-0.00098182
		0	1.85073789	-0.00073789
		+ 10	1.85092124	-0.00092124
		+ 20 (Ref)	1.85053281	-0.00053281
		+ 30	1.85031696	-0.00031696
		+ 40	1.85057343	-0.00057343
		+ 50	1.85065006	-0.00065006
Battery Endpoint	3.40	+ 20	1.85053791	-0.00053791

Table 7-60. NR Band n25/2 Lower Boundary Frequency Stability Data

NR Band n25/2				
Operating Band Upper Boundary (GHz)			1.915	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.91443791	-0.00056209
		- 20	1.91482660	-0.00017340
		- 10	1.91435306	-0.00064694
		0	1.91437657	-0.00062343
		+ 10	1.91459742	-0.00040258
		+ 20 (Ref)	1.91499515	-0.00000485
		+ 30	1.91452457	-0.00047543
		+ 40	1.91479746	-0.00020254
		+ 50	1.91477319	-0.00022681
Battery Endpoint	3.40	+ 20	1.91491175	-0.00008825

Table 7-61. NR Band n25/2 Upper Boundary Frequency Stability Data

FCC ID: BCGA3269			PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 217 of 219

V2.2 09/07/2023

WCDMA PCS

WCDMA PCS				
Operating Band Lower Boundary (GHz)			1.850	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.85036022	-0.00036022
		- 20	1.85036905	-0.00036905
		- 10	1.85003948	-0.00003948
		0	1.85067681	-0.00067681
		+ 10	1.85087883	-0.00087883
		+ 20 (Ref)	1.85008625	-0.00008625
		+ 30	1.85020652	-0.00020652
		+ 40	1.85038621	-0.00038621
		+ 50	1.85007468	-0.00007468
Battery Endpoint	3.40	+ 20	1.85042929	-0.00042929

Table 7-62. WCDMA PCS Lower Boundary Frequency Stability Data

WCDMA PCS				
Operating Band Upper Boundary (GHz)			1.910	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.90916644	-0.00083356
		- 20	1.90953917	-0.00046083
		- 10	1.90937950	-0.00062050
		0	1.90990345	-0.00009655
		+ 10	1.90931876	-0.00068124
		+ 20 (Ref)	1.90902014	-0.00097986
		+ 30	1.90945049	-0.00054951
		+ 40	1.90983057	-0.00016943
		+ 50	1.90918695	-0.00081305
Battery Endpoint	3.40	+ 20	1.90973438	-0.00026562

Table 7-63. WCDMA PCS Upper Boundary Frequency Stability Data

FCC ID: BCGA3269			PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 218 of 219

V2.2 09/07/2023

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA3269** complies with all the requirements of Part 24 of the FCC rules.

FCC ID: BCGA3269	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-08.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device
		Page 219 of 219

V2.2 09/07/2023

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