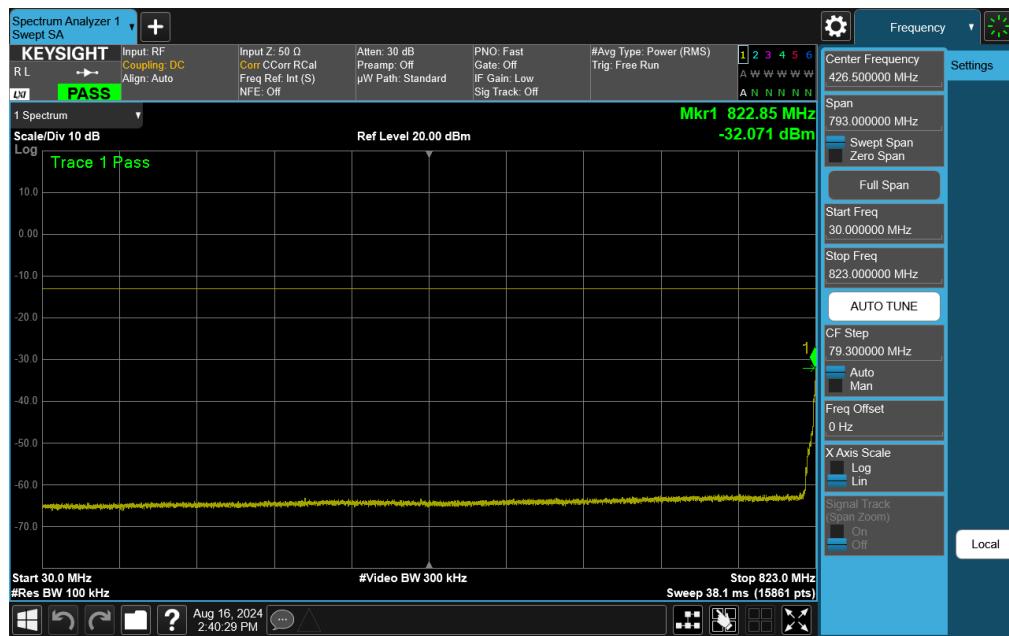


WCDMA Cell

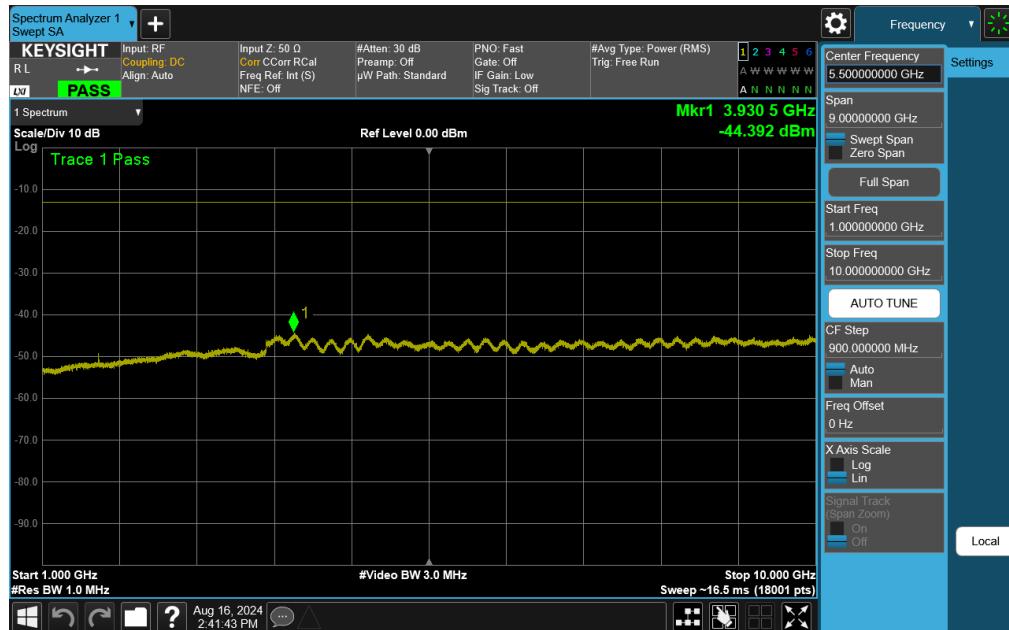


Plot 7-69. Conducted Spurious Plot (WCDMA Ch. 4132)

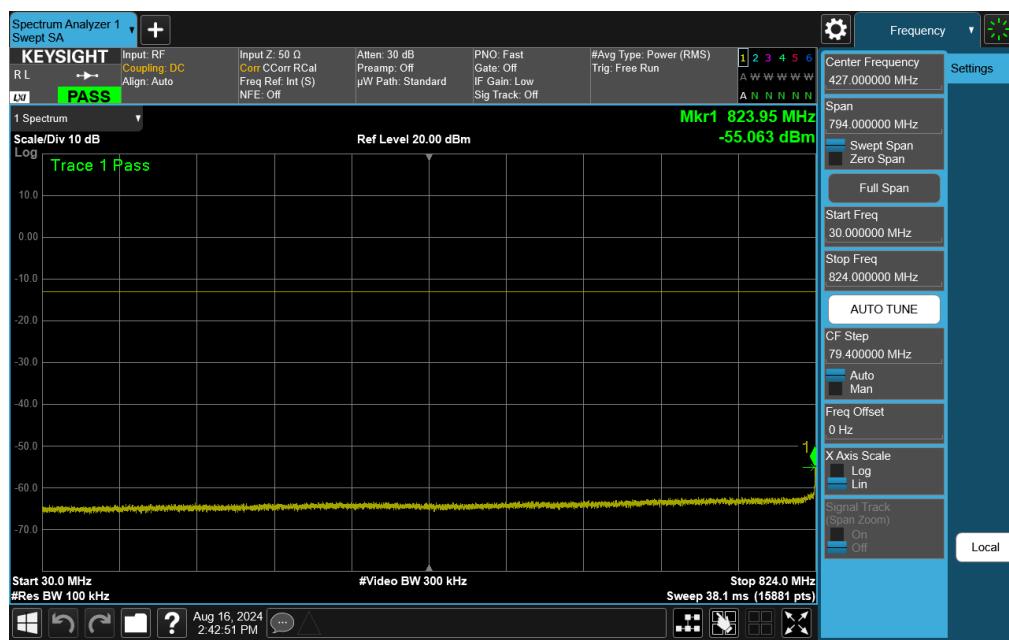


Plot 7-70. Conducted Spurious Plot (WCDMA Ch. 4132)

FCC ID: BCGA3269	 element		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 53 of 112

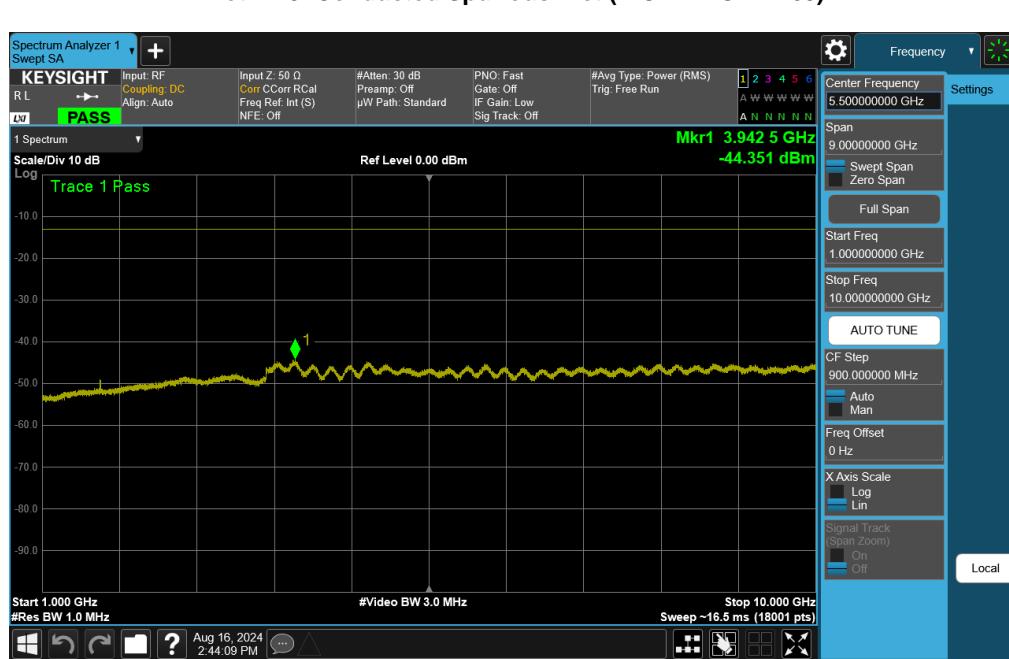
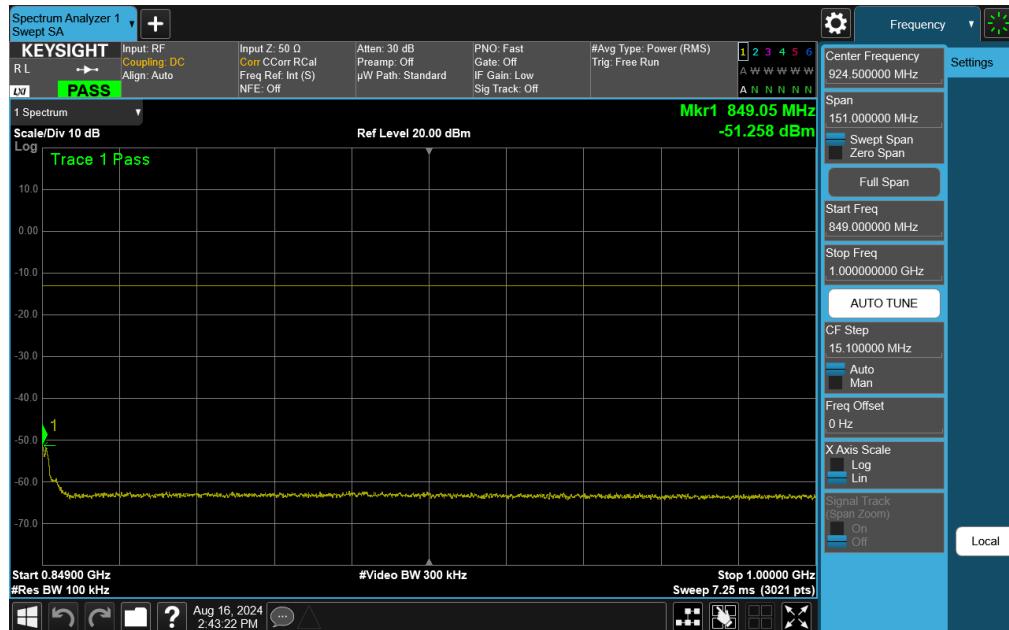


Plot 7-71. Conducted Spurious Plot (WCDMA Ch. 4132)

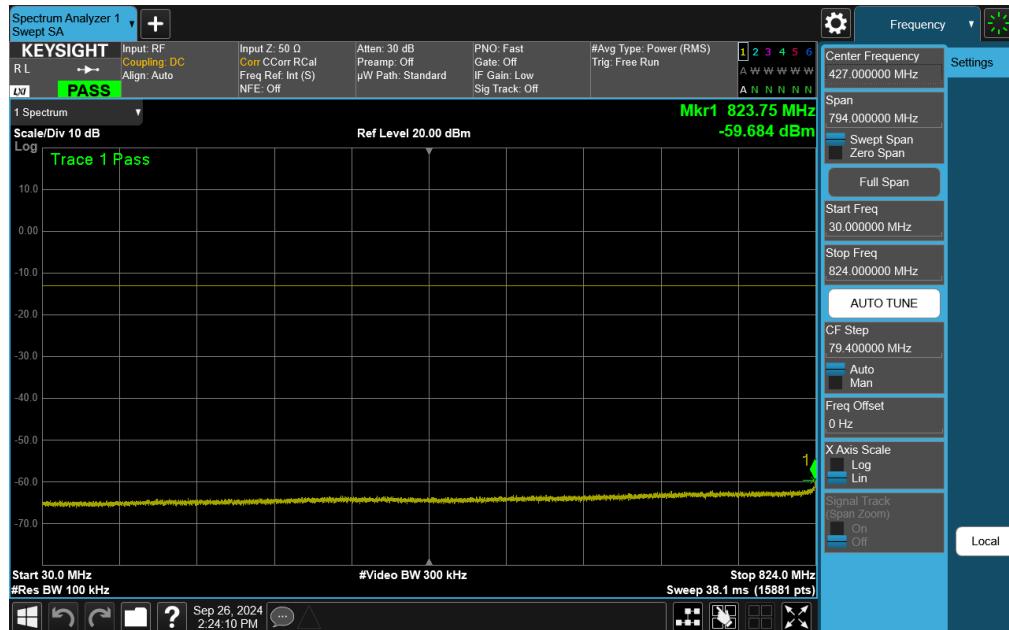


Plot 7-72. Conducted Spurious Plot (WCDMA Ch. 4183)

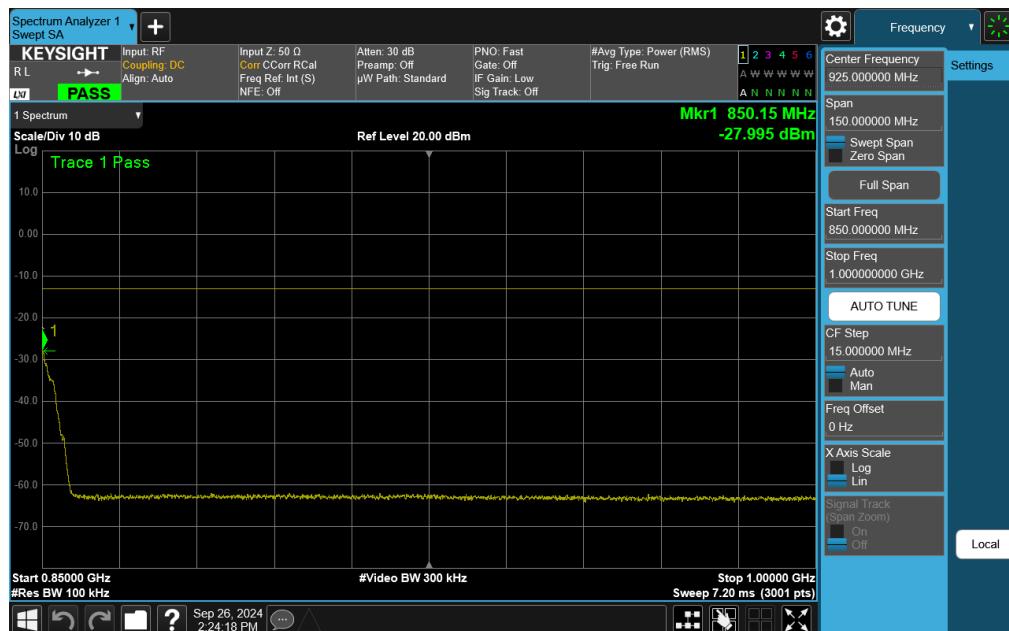
FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 54 of 112



FCC ID: BCGA3269	 element		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 55 of 112

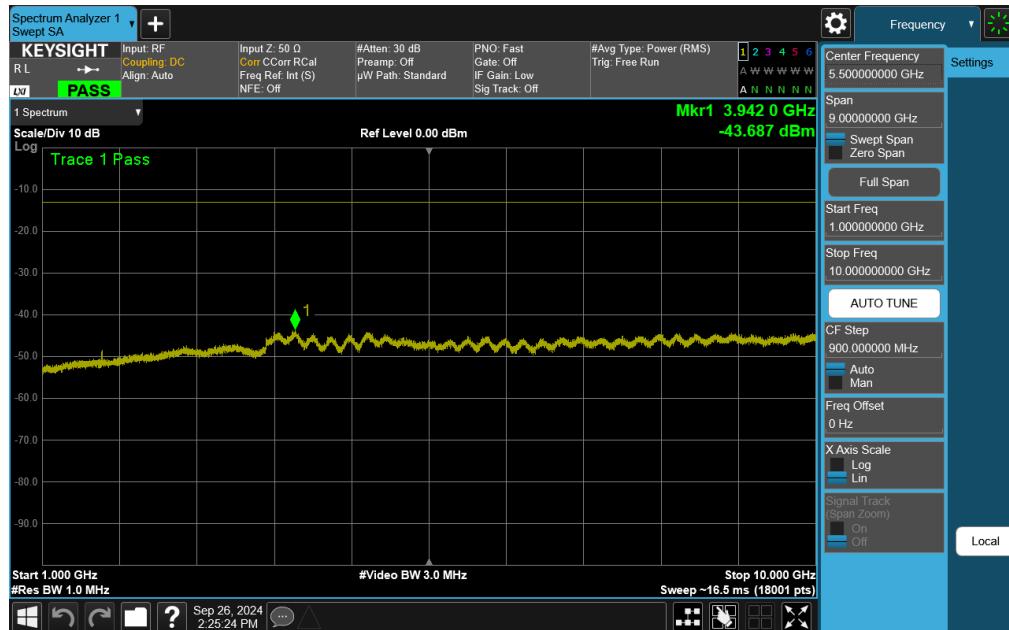


Plot 7-75. Conducted Spurious Plot (WCDMA Ch. 4233)



Plot 7-76. Conducted Spurious Plot (WCDMA Ch. 4233)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 56 of 112



FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 57 of 112

7.4 Band Edge Emissions at Antenna Terminal

§2.1051, 22.917(a)

Test Overview and limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates 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. All ports were tested and only the worst case data was reported.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW $\geq 1\%$ of the emission bandwidth
4. VBW $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

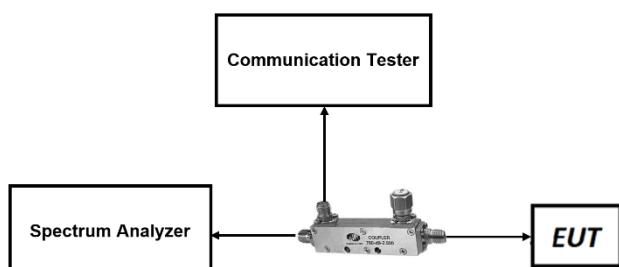


Figure 7-5. LTE Test Instrument & Measurement Setup

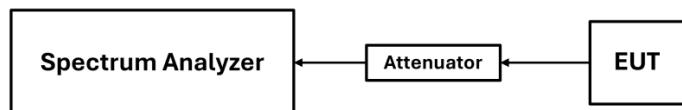


Figure 7-6. FR1 Test Instrument & Measurement Setup

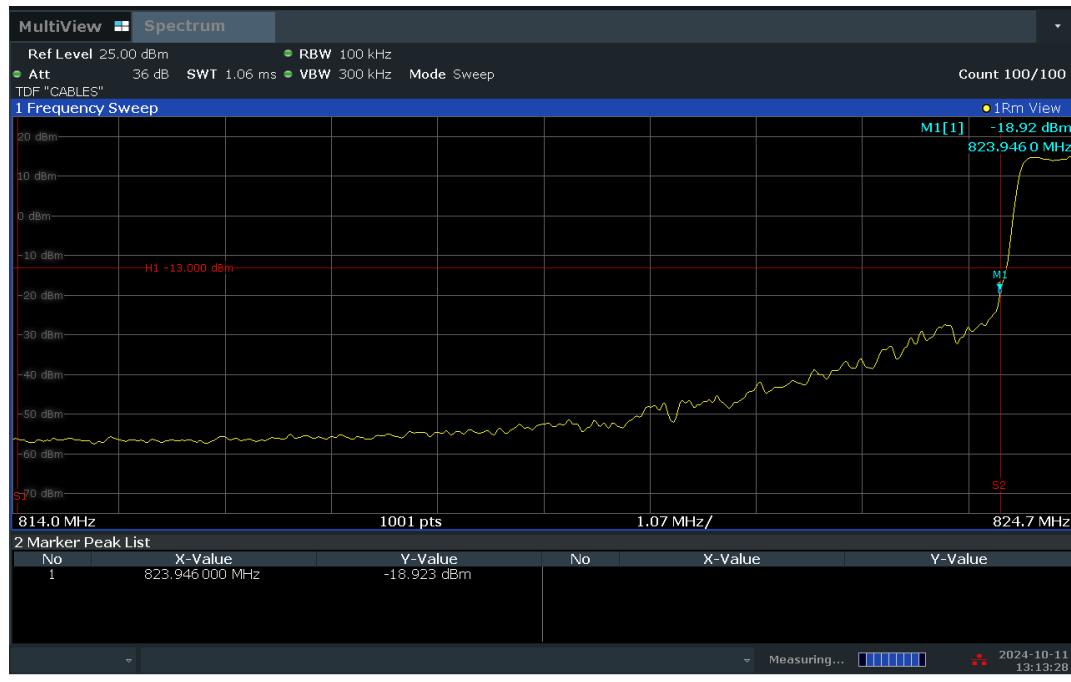
FCC ID: BCGA3269	 element		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 58 of 112

Test Notes

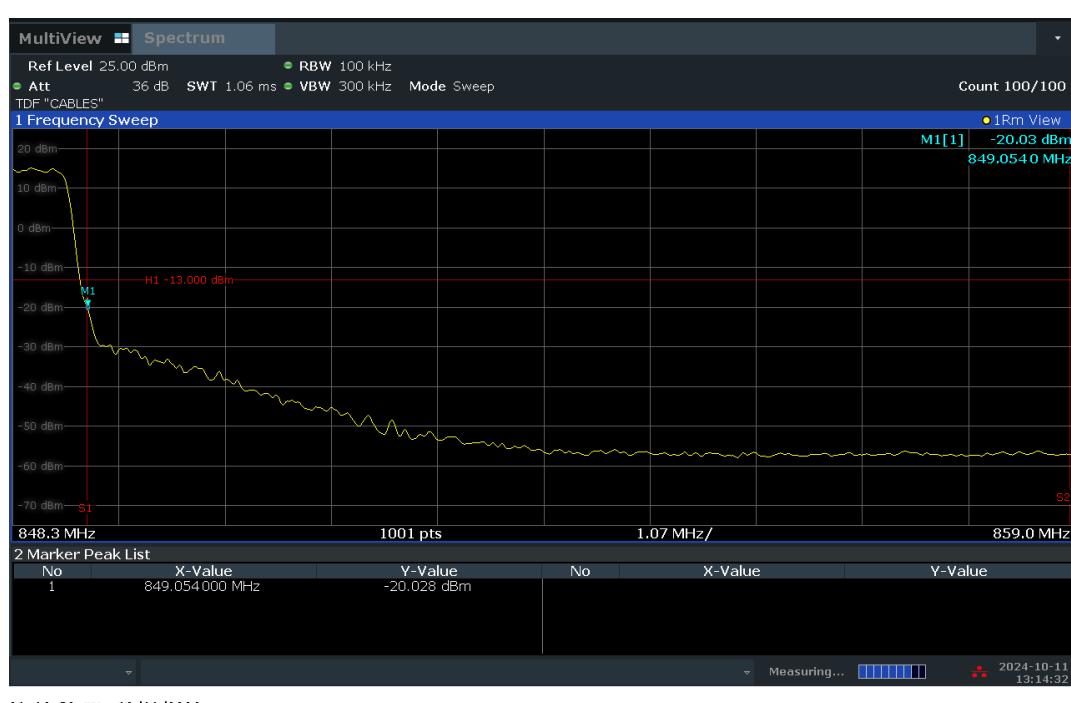
1. Per 22.917(b), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 59 of 112

LTE Band 26

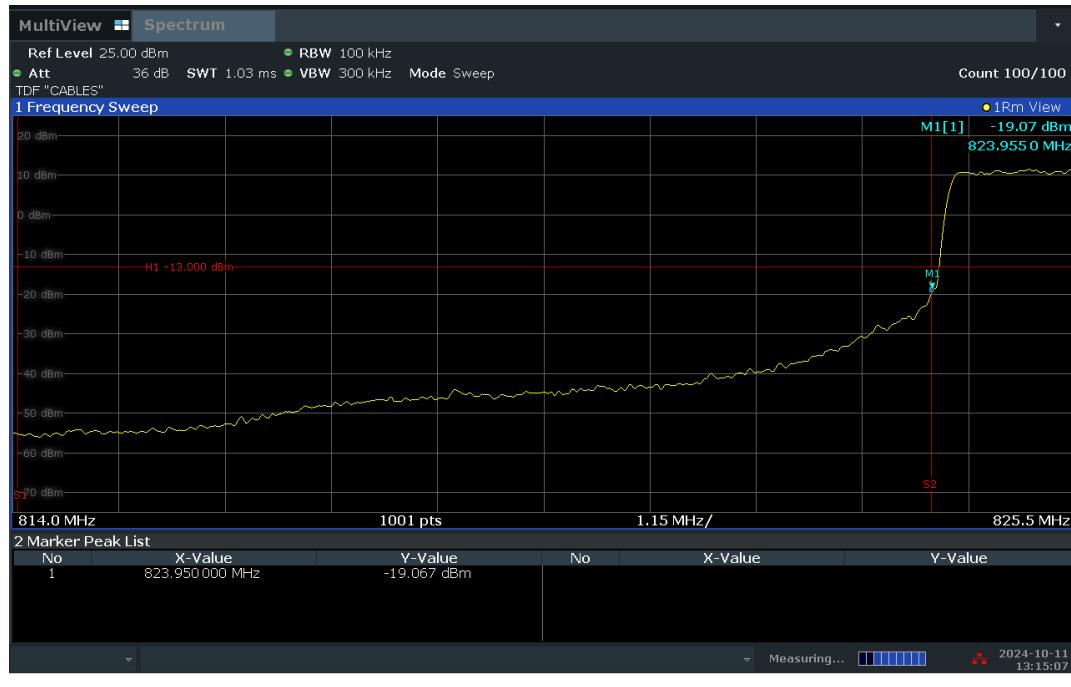


Plot 7-78. Lower BE Plot (LTE Band 26 – 1.4MHz QPSK – Full RB Configuration)

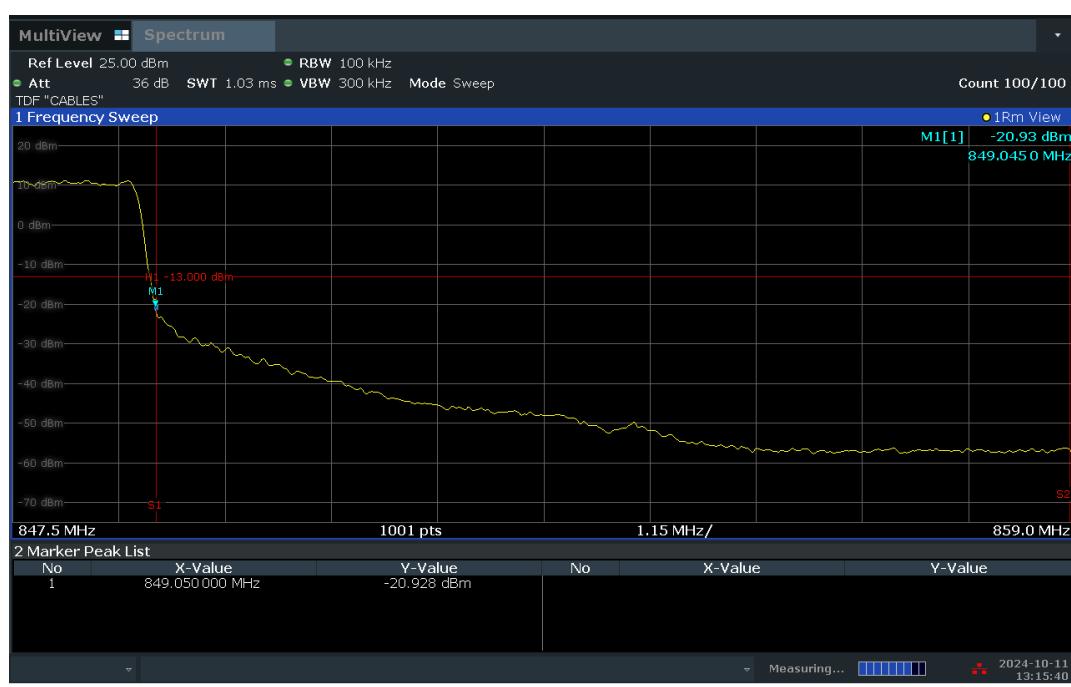


Plot 7-79. Upper BE Plot (LTE Band 26 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Approved by: Technical Manager

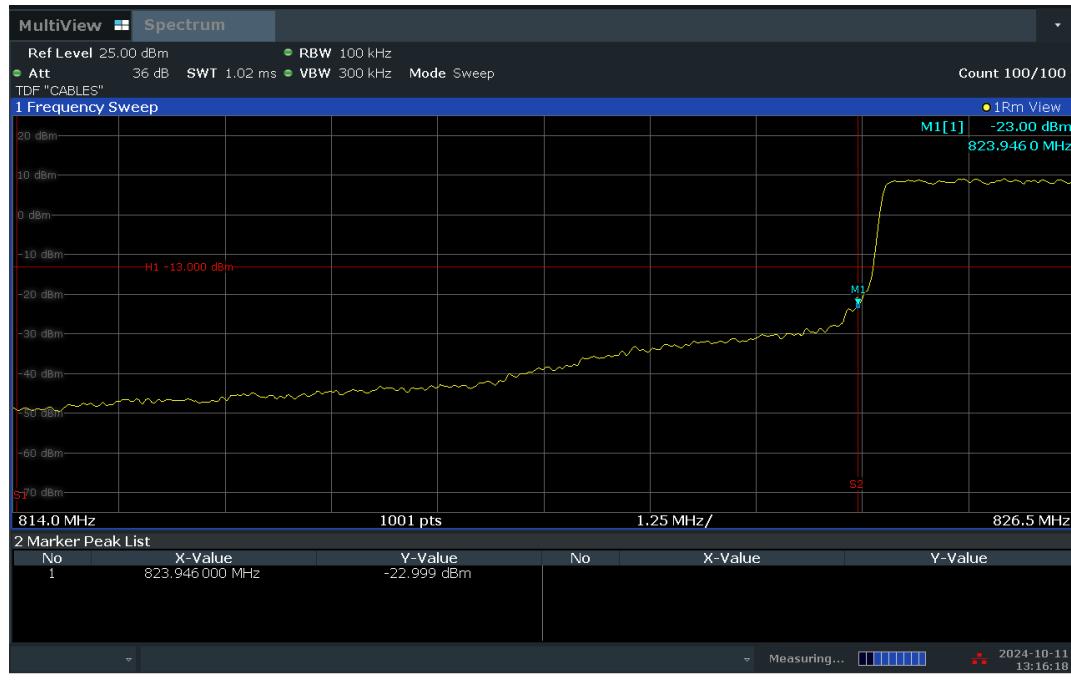


Plot 7-80. Lower BE Plot (LTE Band 26 - 3MHz QPSK – Full RB Configuration)

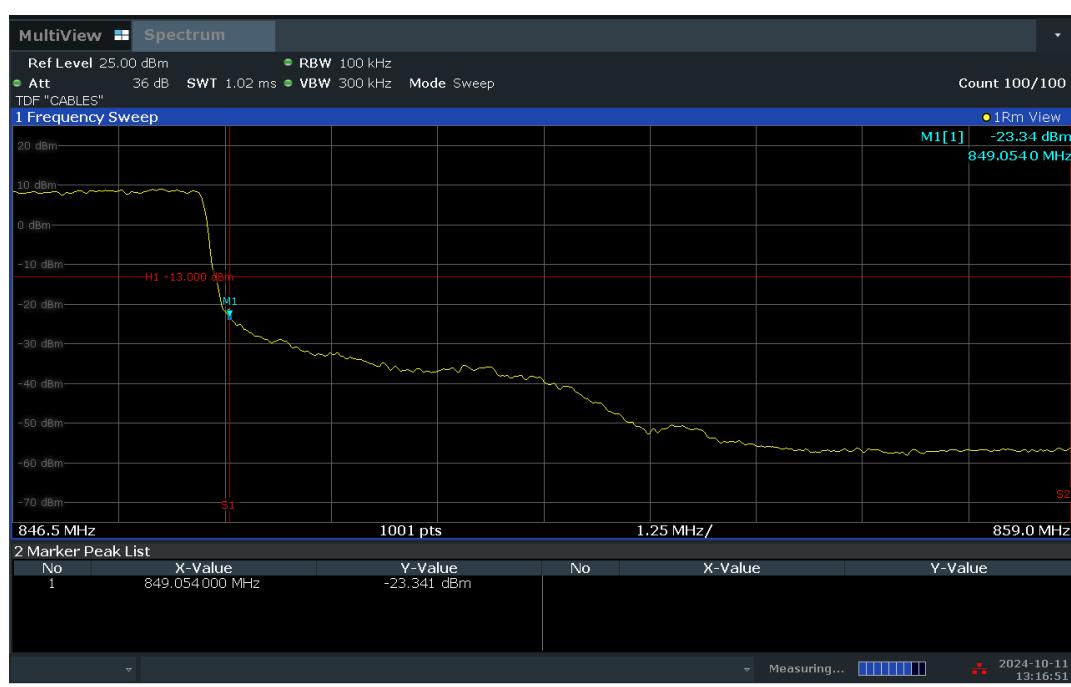


Plot 7-81. Upper BE Plot (LTE Band 26 - 3MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 61 of 112

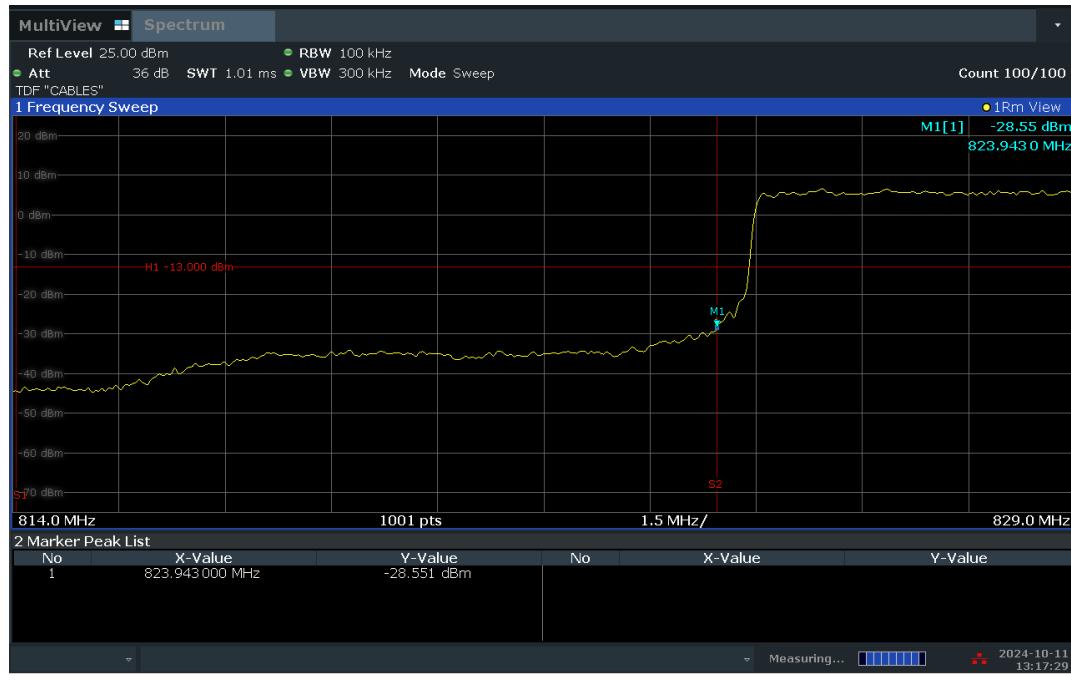


Plot 7-82. Lower BE Plot (LTE Band 26 - 5MHz QPSK – Full RB Configuration)

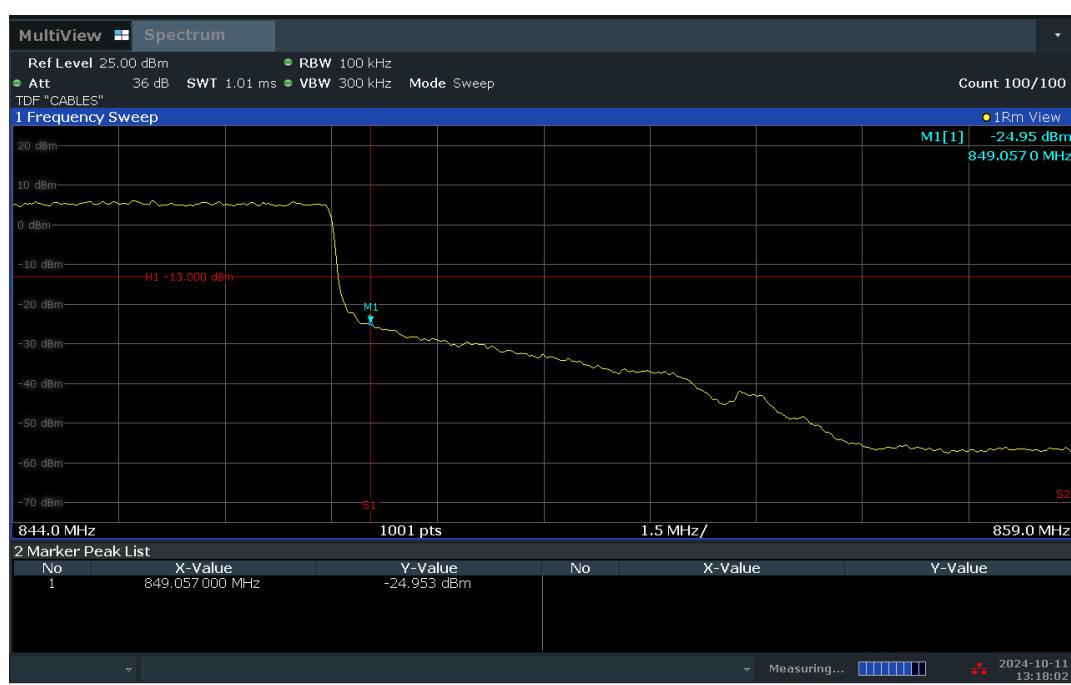


Plot 7-83. Upper BE Plot (LTE Band 26 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 62 of 112



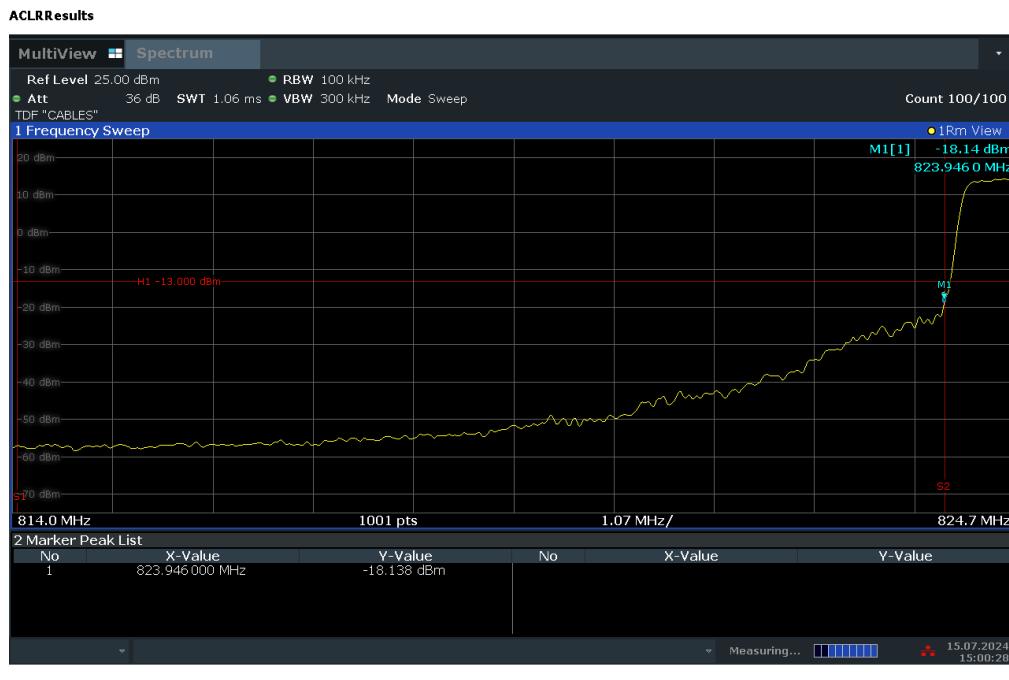
Plot 7-84. Lower BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)



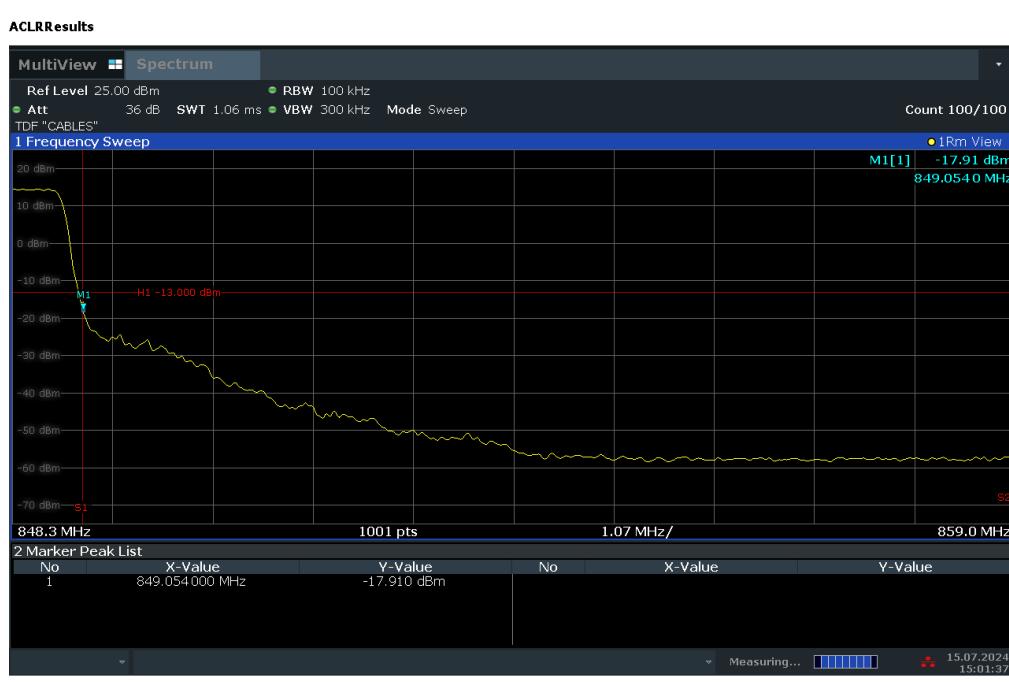
Plot 7-85. Upper BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 63 of 112

LTE Band 5

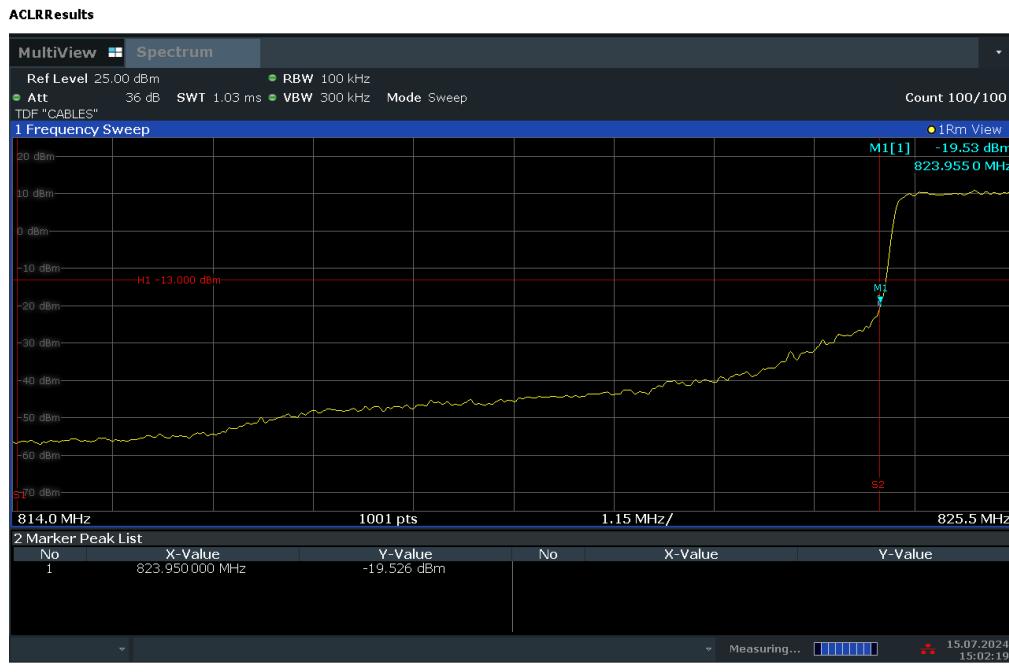


Plot 7-86. Lower BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)

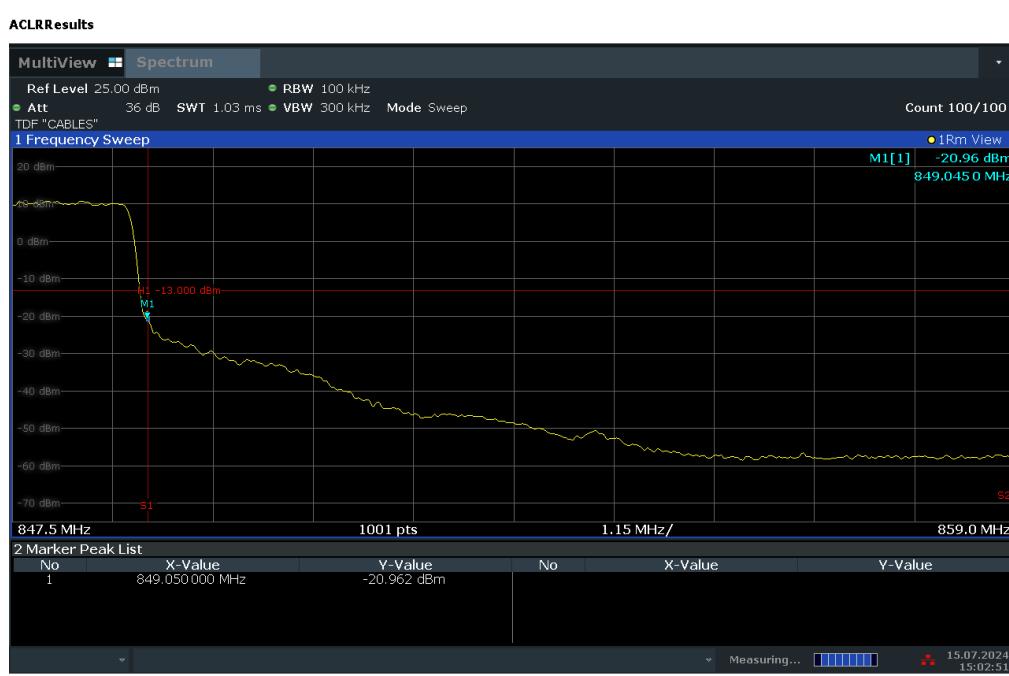


Plot 7-87. Upper BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 64 of 112

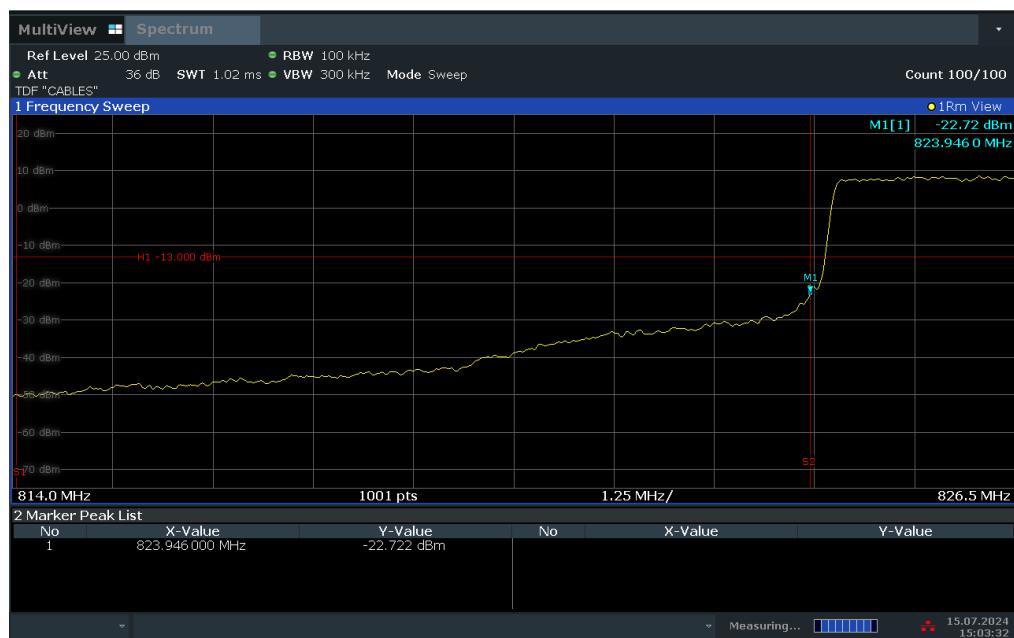
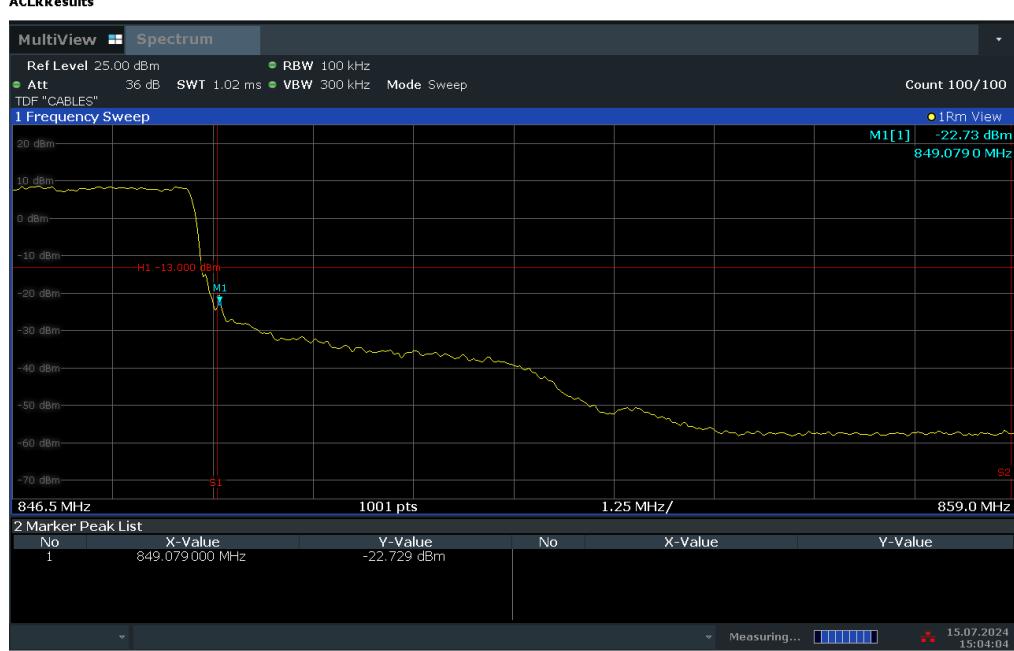


Plot 7-88. Lower BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)

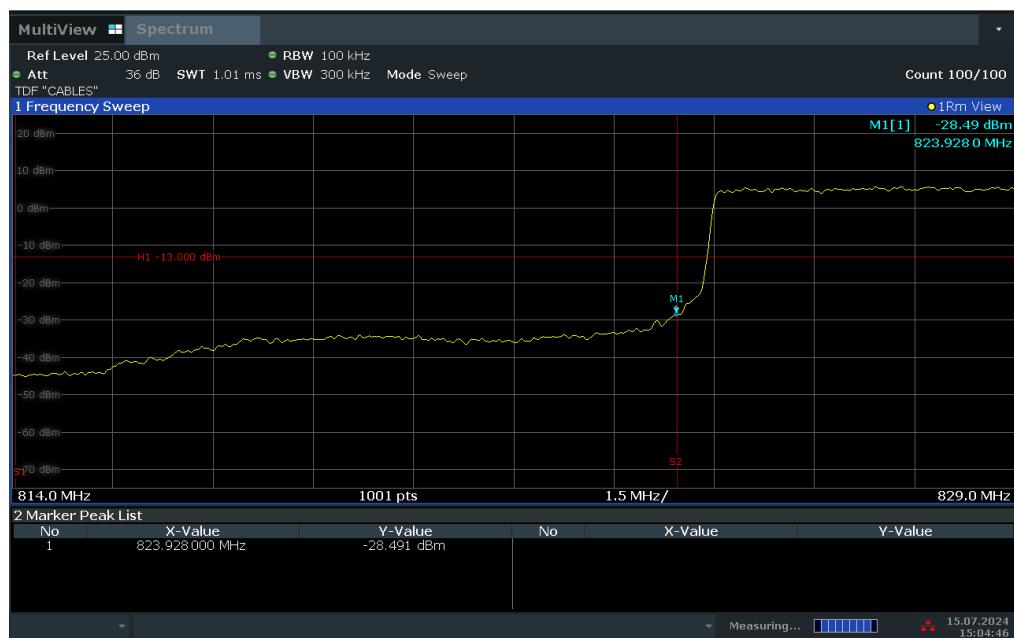
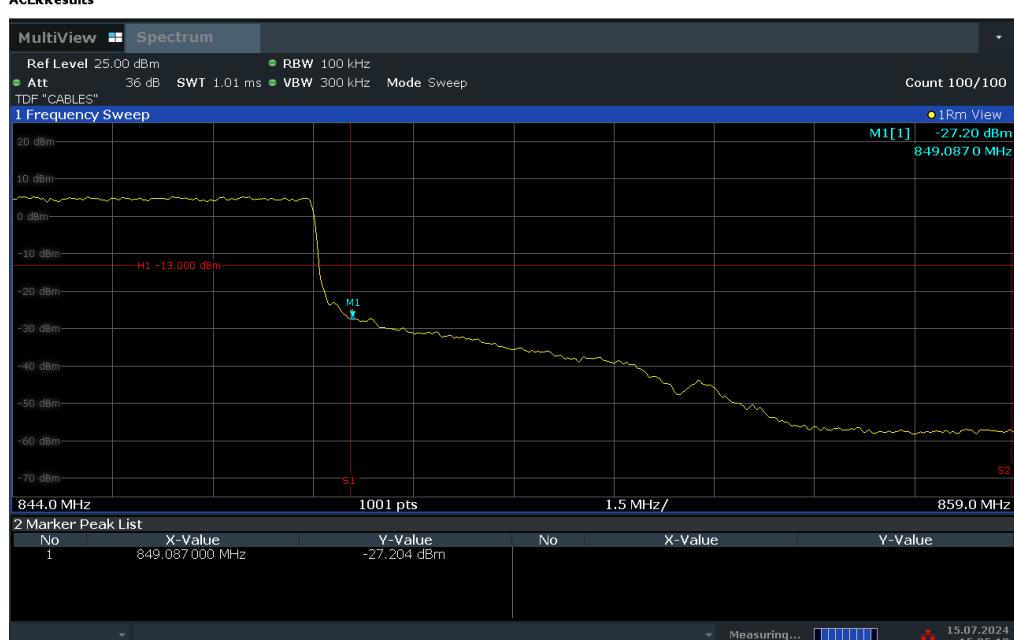


Plot 7-89. Upper BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	 element		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 65 of 112	

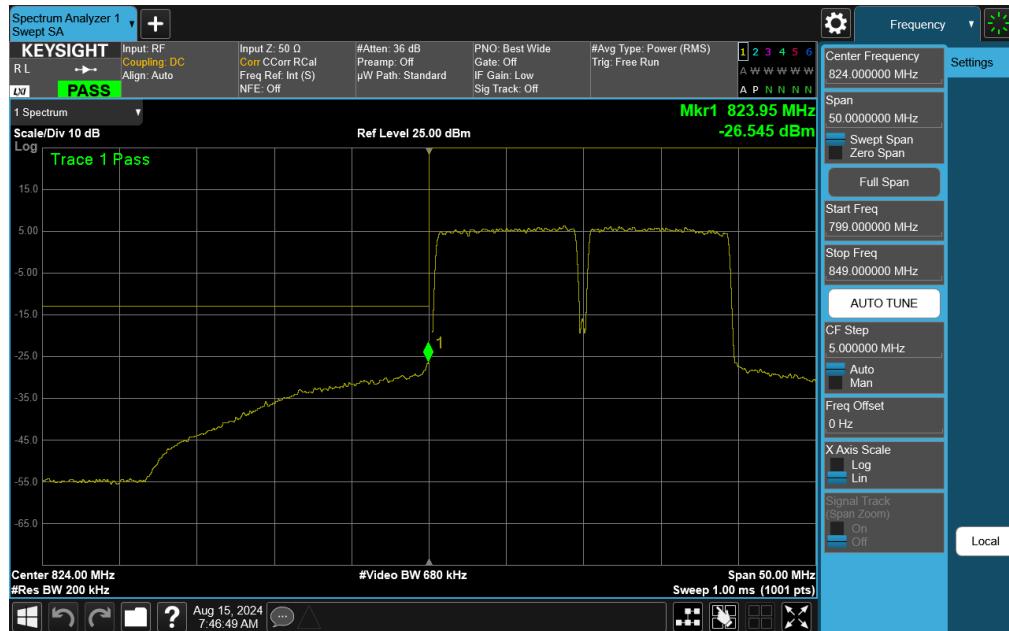
ACLRResults

Plot 7-90. Lower BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)
ACLRResults

Plot 7-91. Upper BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 66 of 112

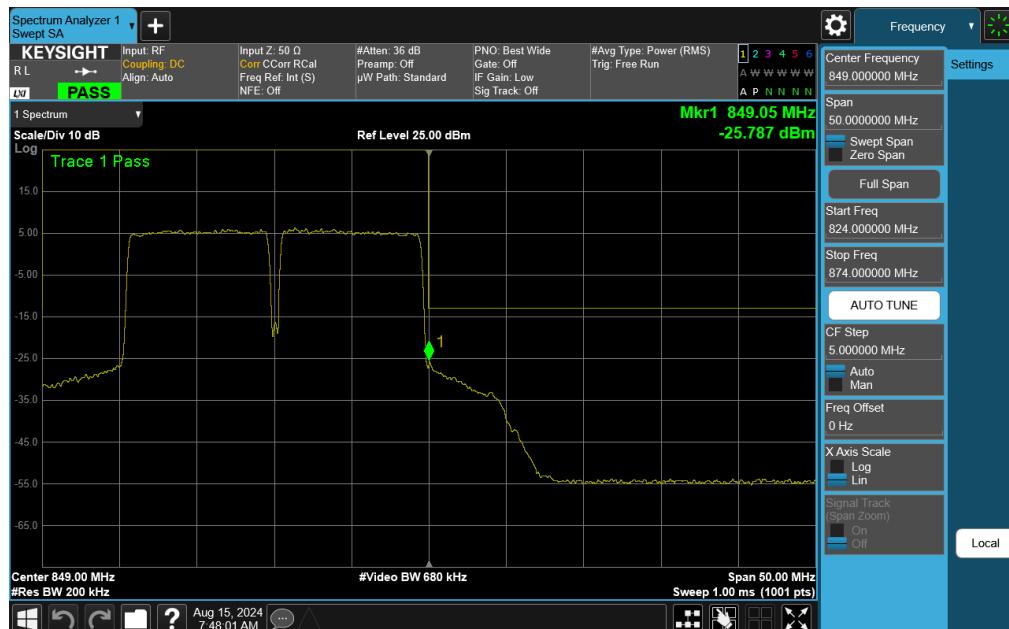
ACLRResults

Plot 7-92. Lower BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)
ACLRResults

Plot 7-93. Upper BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	 element		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 67 of 112

ULCA - LTE Band 5



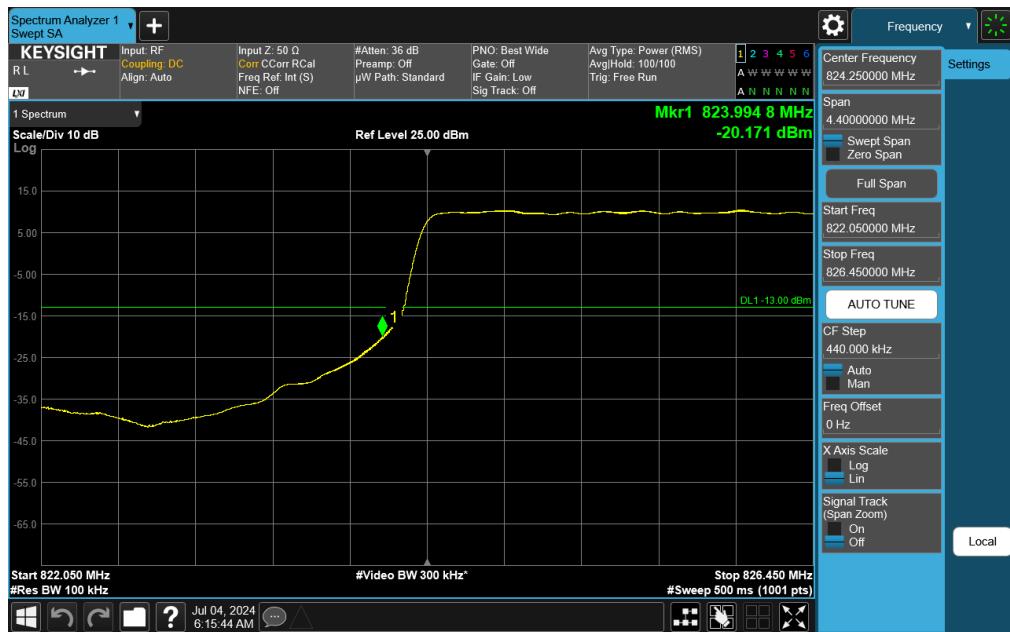
Plot 7-94. Lower BE Plot (ULCA – LTE Band 5 – (10 + 10)MHz QPSK – Full RB Configuration)



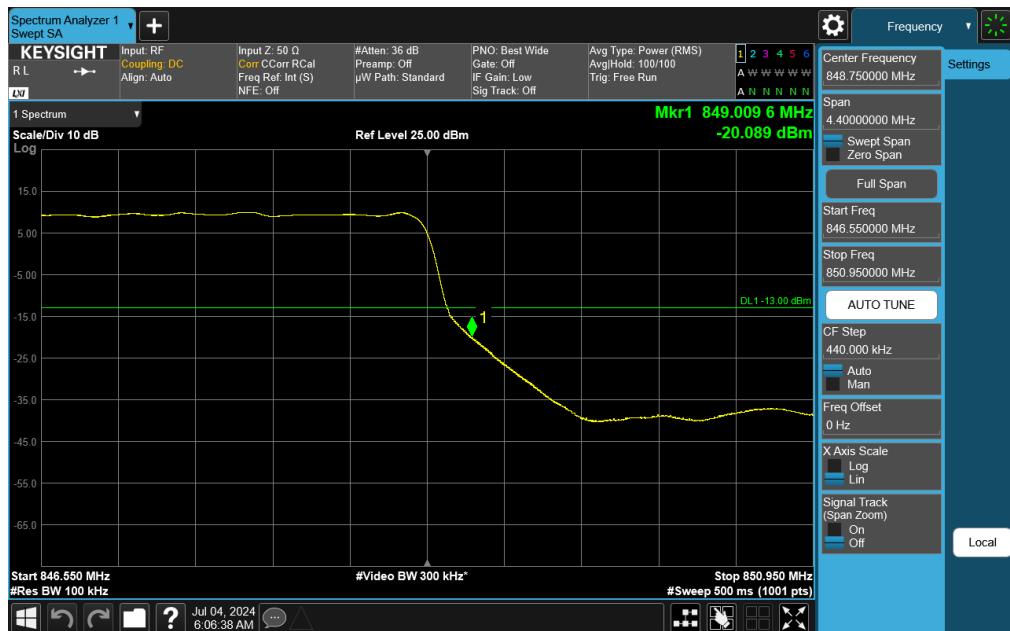
Plot 7-95. Upper BE Plot (ULCA – LTE Band 5 - (10 + 10)MHz QPSK – Full RB Configuration)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 68 of 112

NR Band n26

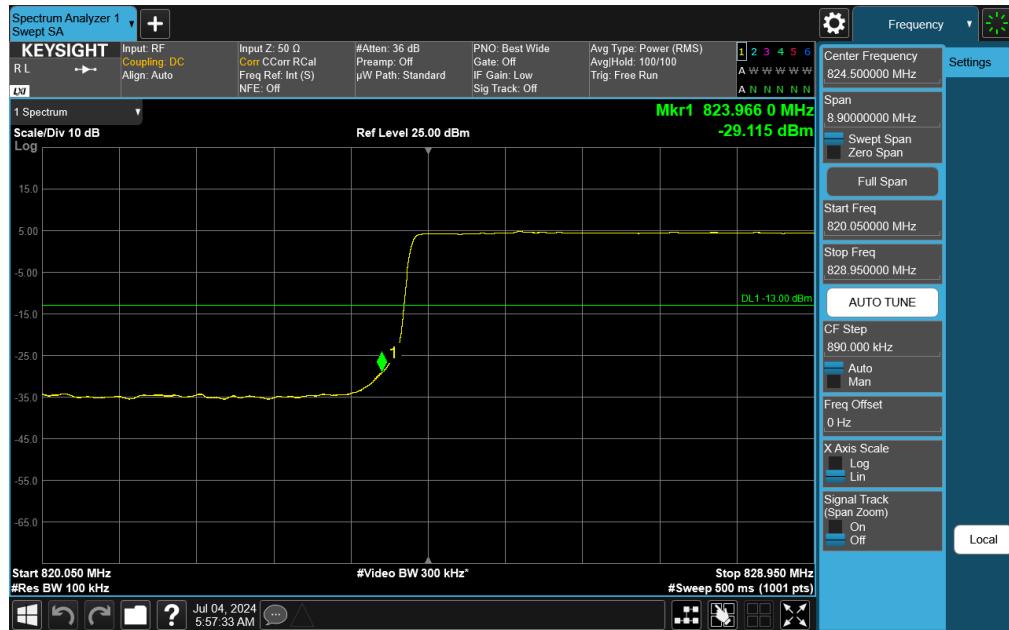


Plot 7-96. Lower BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 5.0MHz - Full RB)

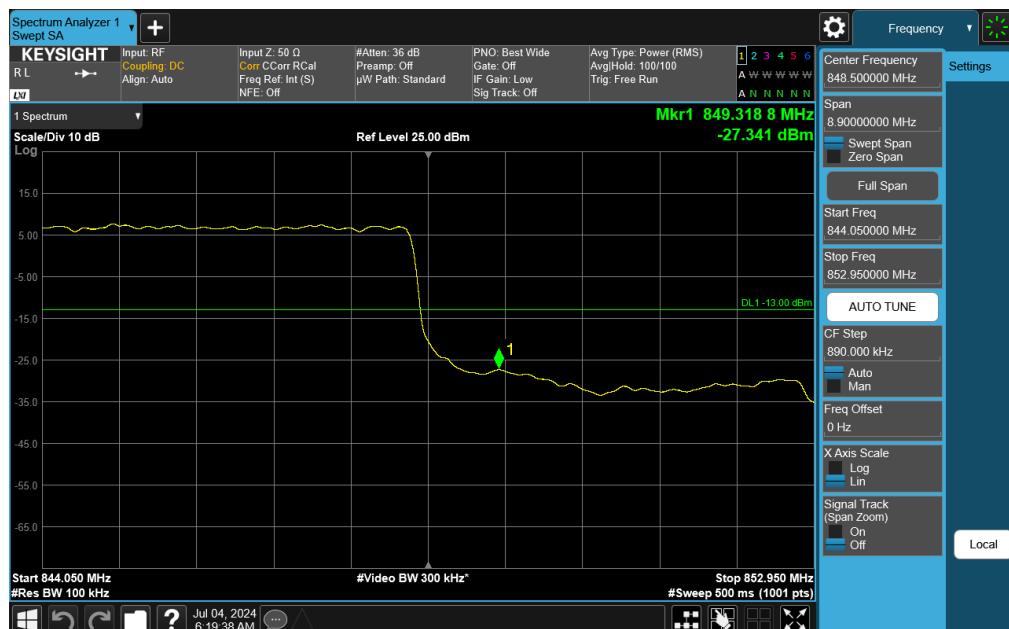


Plot 7-97. Upper BE Plot (NR Band n26 DFT-s-OFDM QPSK – 5.0MHz - Full RB)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 69 of 112

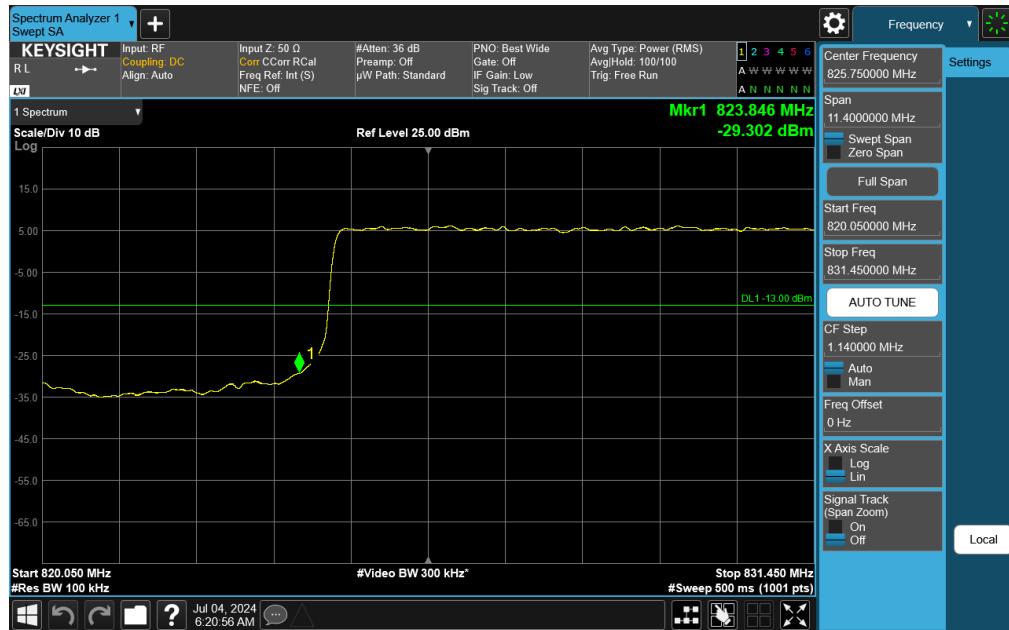


Plot 7-98. Lower BE Plot (NR Band n26 CP-OFDM QPSK – 10.0MHz - Full RB)

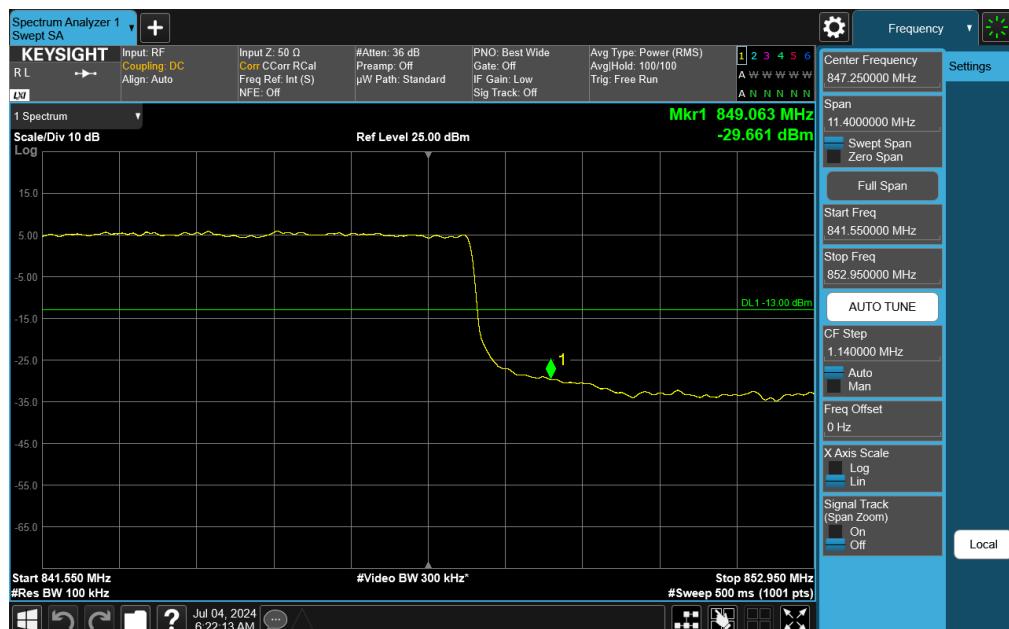


Plot 7-99. Upper BE Plot (NR Band n26 DFT-s-OFDM π/2 BPSK – 10.0MHz - Full RB)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 70 of 112

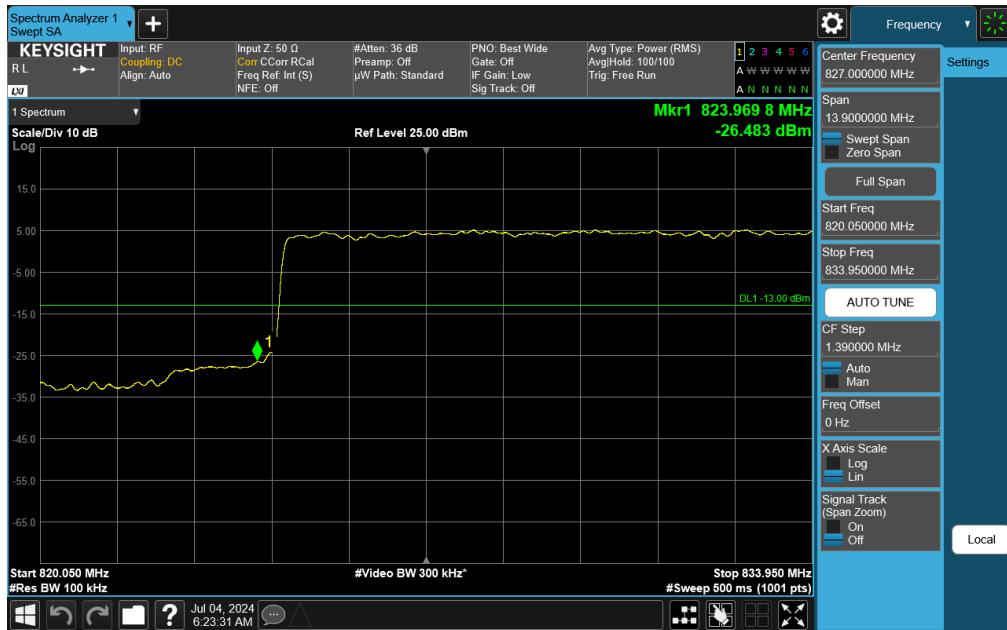


Plot 7-100. Lower BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

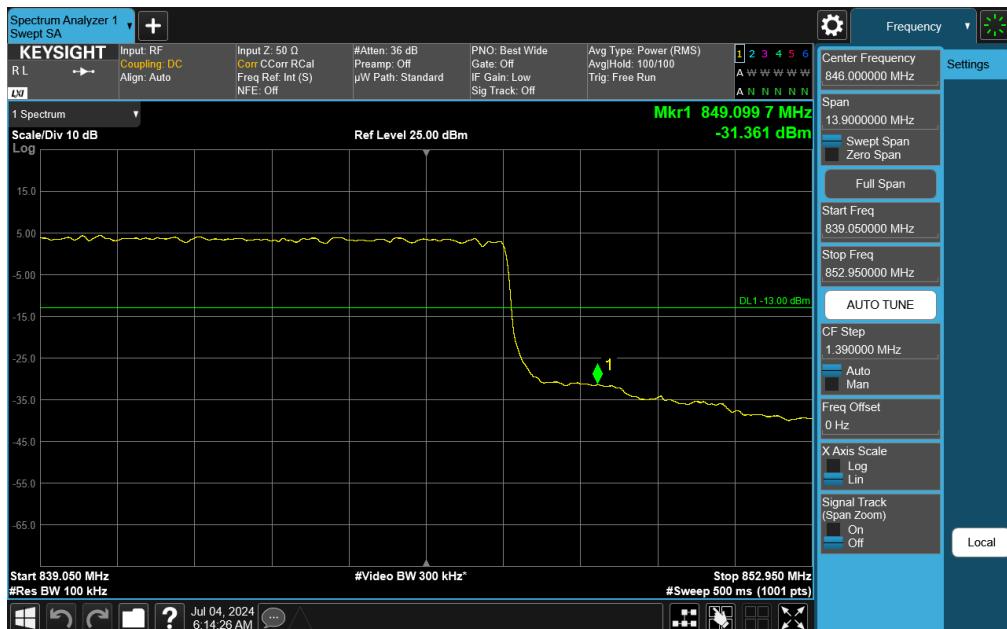


Plot 7-101. Upper BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 71 of 112

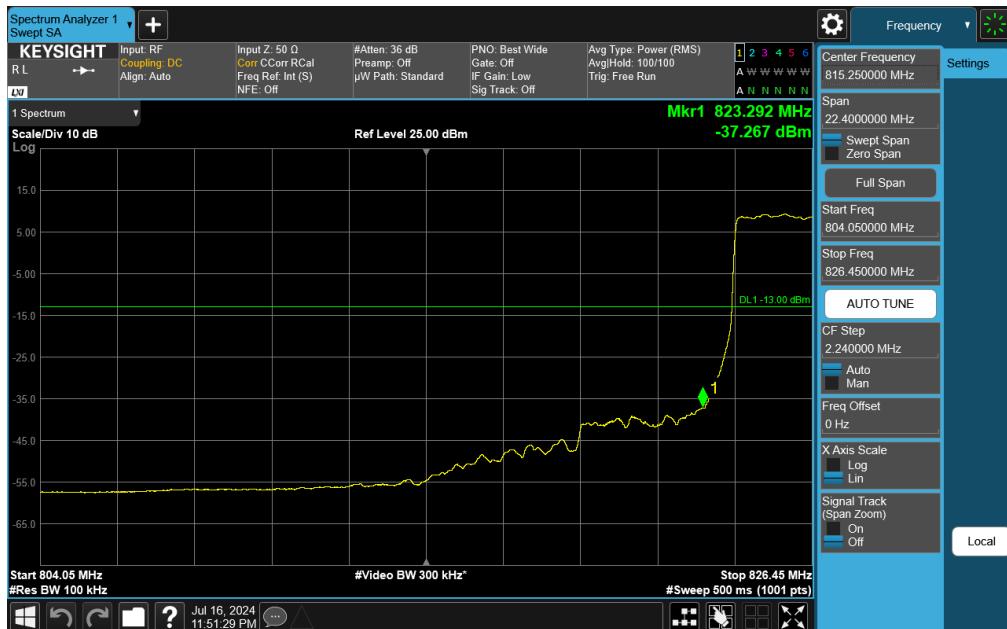


Plot 7-102. Lower BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 20.0MHz - Full RB)

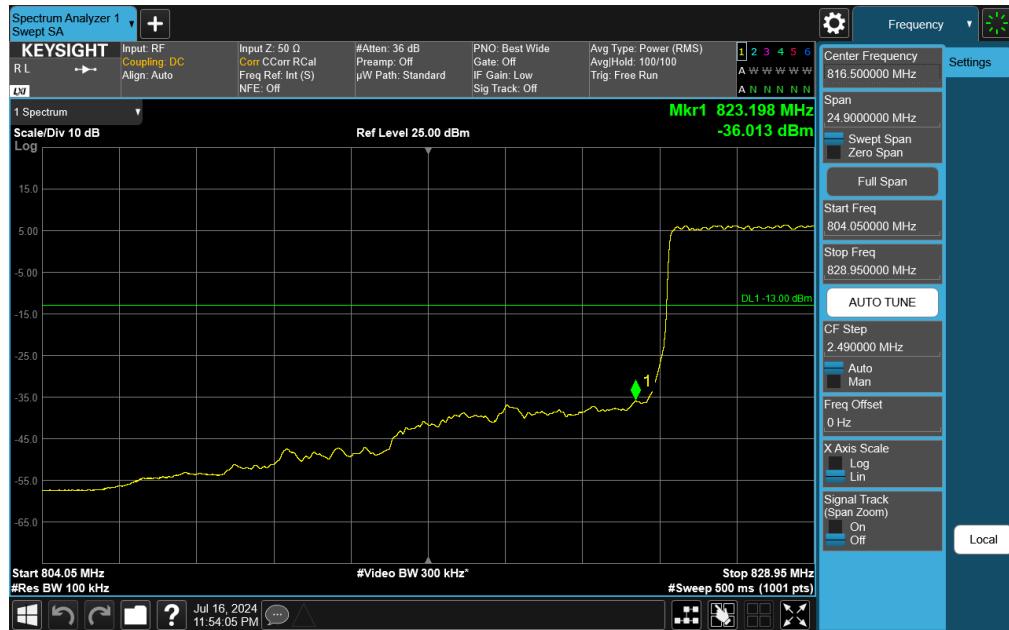


Plot 7-103. Upper BE Plot (NR Band n26 DFT-s- OFDM QPSK – 20.0MHz - Full RB)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 72 of 112

NR Band n5


FCC ID: BCGA3269	 element		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 73 of 112

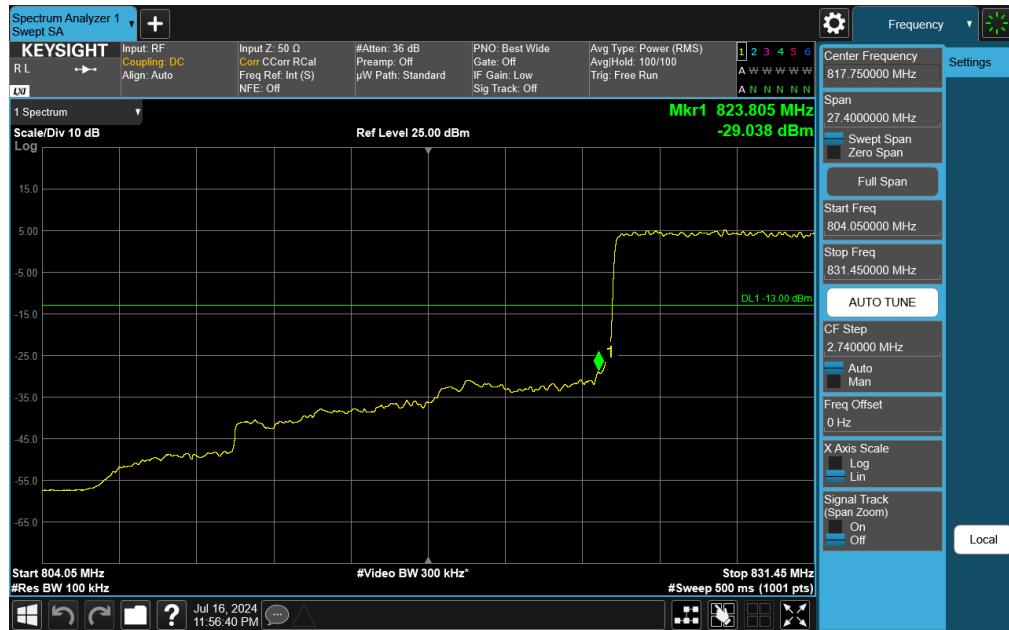


Plot 7-106. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz - Full RB)



Plot 7-107. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz - Full RB)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 74 of 112

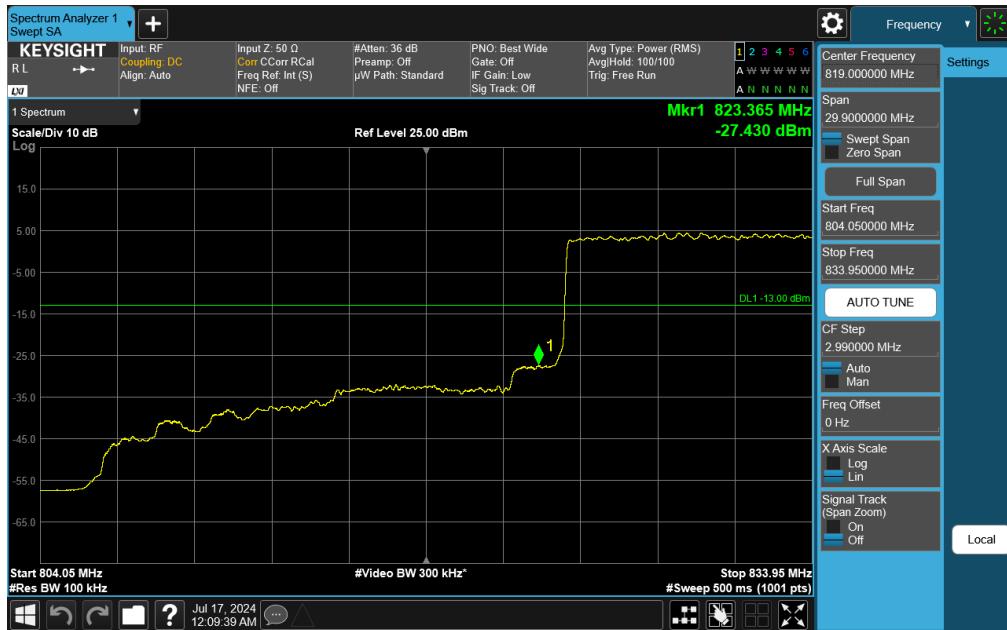


Plot 7-108. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 15.0MHz - Full RB)



Plot 7-109. Upper BE Plot (NR Band n5 DFT-s-OFDM π/2 BPSK – 15.0MHz - Full RB)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 75 of 112



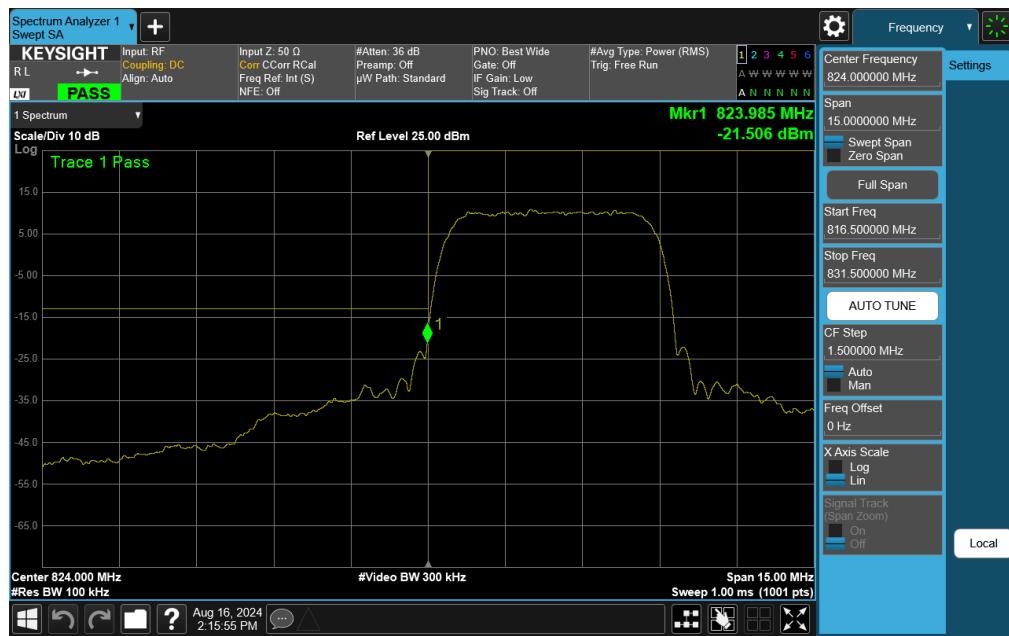
Plot 7-110. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 20.0MHz - Full RB)



Plot 7-111. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 20.0MHz - Full RB)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 76 of 112

WCDMA Cell



Plot 7-112. Lower BE Plot (WCDMA Cell – Ch. 4132)



Plot 7-113. Upper BE Plot (WCDMA Cell – Ch. 4233)

FCC ID: BCGA3269	 element		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 77 of 112

7.5 Radiated Power (ERP)

§22.913(a)(5)

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

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

$$\text{ERP} = \text{PMes} - \text{LC} + \text{GT}$$

Where:

ERP = Effective Radiated Power, respectively (expressed in the same units as PMes, typically dBW or dBm)

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

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

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

Test Setup

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

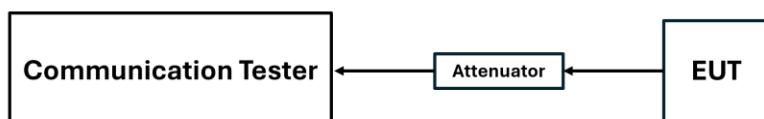


Figure 7-7. LTE Test Instrument & Measurement Setup

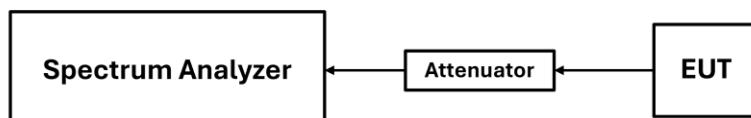


Figure 7-8. FR1 Test Instrument & Measurement Setup

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 78 of 112

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. Uplink carrier aggregation for LTE B5 is only supported in this EUT while operating in Power Class 3.
5. Conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
6. The Ant. Gains (GT) are listed in dBi.

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 79 of 112

7.5.1 Antenna 4 – ERP

LTE Band 26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.30	1 / 0	25.68	21.23	0.133	38.45	-17.22
		836.5	-2.30	1 / 0	25.62	21.17	0.131	38.45	-17.28
		848.3	-2.30	1 / 3	25.60	21.15	0.130	38.45	-17.30
	16-QAM	824.7	-2.30	1 / 5	24.97	20.52	0.113	38.45	-17.93
	64-QAM	824.7	-2.30	1 / 0	23.83	19.38	0.087	38.45	-19.07
	256-QAM	824.7	-2.30	1 / 0	20.91	16.46	0.044	38.45	-21.99
3 MHz	QPSK	825.5	-2.30	1 / 0	25.70	21.25	0.133	38.45	-17.20
		836.5	-2.30	1 / 0	25.58	21.13	0.130	38.45	-17.32
		847.5	-2.30	1 / 0	25.41	20.96	0.125	38.45	-17.49
	16-QAM	825.5	-2.30	1 / 0	25.03	20.58	0.114	38.45	-17.87
	64-QAM	825.5	-2.30	1 / 14	23.94	19.49	0.089	38.45	-18.96
	256-QAM	825.5	-2.30	1 / 0	21.00	16.55	0.045	38.45	-21.90
5 MHz	QPSK	826.5	-2.30	1 / 0	25.51	21.06	0.128	38.45	-17.39
		836.5	-2.30	1 / 0	25.54	21.09	0.129	38.45	-17.36
		846.5	-2.30	1 / 0	25.59	21.14	0.130	38.45	-17.31
	16-QAM	826.5	-2.30	1 / 0	25.05	20.60	0.115	38.45	-17.85
	64-QAM	846.5	-2.30	1 / 0	23.86	19.41	0.087	38.45	-19.04
	256-QAM	826.5	-2.30	1 / 0	20.92	16.47	0.044	38.45	-21.98
10 MHz	QPSK	829.0	-2.30	1 / 0	25.67	21.22	0.132	38.45	-17.23
		836.5	-2.30	1 / 0	25.51	21.06	0.128	38.45	-17.39
		844.0	-2.30	1 / 0	25.49	21.04	0.127	38.45	-17.41
	16-QAM	836.5	-2.30	1 / 0	24.92	20.47	0.111	38.45	-17.98
	64-QAM	829.0	-2.30	1 / 25	23.91	19.46	0.088	38.45	-18.99
	256-QAM	829.0	-2.30	1 / 0	20.85	16.40	0.044	38.45	-22.05

Table 7-2. Antenna 4 ERP Data (LTE Band 26)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device			

LTE Band 5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.30	1 / 5	25.64	21.19	0.132	38.45	-17.26
		836.5	-2.30	1 / 5	25.61	21.16	0.131	38.45	-17.29
		848.3	-2.30	1 / 0	25.70	21.25	0.133	38.45	-17.20
	16-QAM	836.5	-2.30	1 / 5	24.99	20.54	0.113	38.45	-17.91
		836.5	-2.30	1 / 0	23.86	19.41	0.087	38.45	-19.04
		836.5	-2.30	1 / 5	20.80	16.35	0.043	38.45	-22.10
		825.5	-2.30	1 / 0	25.60	21.15	0.130	38.45	-17.30
	QPSK	836.5	-2.30	1 / 0	25.50	21.05	0.127	38.45	-17.40
		847.5	-2.30	1 / 0	25.54	21.09	0.129	38.45	-17.36
3 MHz	16-QAM	836.5	-2.30	1 / 0	24.92	20.47	0.111	38.45	-17.98
		836.5	-2.30	1 / 0	23.99	19.54	0.090	38.45	-18.91
		836.5	-2.30	1 / 0	20.81	16.36	0.043	38.45	-22.09
	QPSK	826.5	-2.30	1 / 0	25.44	20.99	0.126	38.45	-17.46
		836.5	-2.30	1 / 0	25.58	21.13	0.130	38.45	-17.32
		846.5	-2.30	1 / 0	25.57	21.12	0.129	38.45	-17.33
5 MHz	16-QAM	836.5	-2.30	1 / 0	25.00	20.55	0.114	38.45	-17.90
		846.5	-2.30	1 / 0	23.81	19.36	0.086	38.45	-19.09
		846.5	-2.30	1 / 0	20.88	16.43	0.044	38.45	-22.02
	QPSK	829.0	-2.30	1 / 49	25.52	21.07	0.128	38.45	-17.38
		836.5	-2.30	1 / 0	25.50	21.05	0.127	38.45	-17.40
		844.0	-2.30	1 / 49	25.45	21.00	0.126	38.45	-17.45
10 MHz	16-QAM	836.5	-2.30	1 / 0	24.85	20.40	0.110	38.45	-18.05
		836.5	-2.30	1 / 0	23.81	19.36	0.086	38.45	-19.09
		836.5	-2.30	1 / 0	20.85	16.40	0.044	38.45	-22.05

Table 7-3. Antenna 4 ERP Data (LTE Band 5)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device			

V2.2 08/24/2023

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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	25.49	-2.30	21.04	0.127	38.45	-17.41
				20475	831.5	1	49		20574	841.4	1	0	25.51	-2.30	21.06	0.128	38.45	-17.39
				20600	844.0	1	0		20501	834.1	1	49	25.55	-2.30	21.10	0.129	38.45	-17.35
			QPSK	20600	844	50	0	QPSK	20501	834.1	50	0	24.13	-2.30	19.68	0.093	38.45	-18.77
				20600	844	50	0		20501	834.1	50	0	23.42	-2.30	18.97	0.079	38.45	-19.48
			16-QAM	20600	844	50	0	16-QAM	20501	834.1	50	0	23.09	-2.30	18.64	0.073	38.45	-19.81
				20600	844	50	0		20501	834.1	50	0	21.15	-2.30	16.70	0.047	38.45	-21.75
			256-QAM	20600	844	50	0	256-QAM	20501	834.1	50	0	21.15	-2.30				

Table 7-4. Antenna 4 ERP Data (ULCA LTE Band 5)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 82 of 112	

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NR Band n26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	
5 MHz	$\pi/2$ BPSK	826.5	-2.30	1 / 1	25.70	21.25	0.133	38.45	-17.20	
		836.5	-2.30	1 / 12	25.70	21.25	0.133	38.45	-17.20	
		846.5	-2.30	1 / 1	25.68	21.23	0.133	38.45	-17.22	
	QPSK	826.5	-2.30	1 / 1	25.62	21.17	0.131	38.45	-17.28	
		836.5	-2.30	1 / 23	25.60	21.15	0.130	38.45	-17.30	
		846.5	-2.30	1 / 1	25.59	21.14	0.130	38.45	-17.31	
		16-QAM	846.5	-2.30	1 / 1	24.73	20.28	0.107	38.45	-18.17
		64-QAM	846.5	-2.30	1 / 1	23.65	19.20	0.083	38.45	-19.25
		256-QAM	846.5	-2.30	1 / 23	20.64	16.19	0.042	38.45	-22.26
10 MHz	$\pi/2$ BPSK	829.0	-2.30	1 / 1	25.40	20.95	0.124	38.45	-17.50	
		836.5	-2.30	1 / 50	25.69	21.24	0.133	38.45	-17.21	
		844.0	-2.30	1 / 1	25.59	21.14	0.130	38.45	-17.31	
	QPSK	829.0	-2.30	1 / 50	25.49	21.04	0.127	38.45	-17.41	
		836.5	-2.30	1 / 50	25.68	21.23	0.133	38.45	-17.22	
		844.0	-2.30	1 / 25	25.70	21.25	0.133	38.45	-17.20	
		16-QAM	844.0	-2.30	1 / 25	24.65	20.20	0.105	38.45	-18.25
		64-QAM	844.0	-2.30	1 / 25	23.71	19.26	0.084	38.45	-19.19
		256-QAM	844.0	-2.30	1 / 25	20.77	16.32	0.043	38.45	-22.13
15 MHz	$\pi/2$ BPSK	831.5	-2.30	1 / 1	25.70	21.25	0.133	38.45	-17.20	
		836.5	-2.30	1 / 36	25.70	21.25	0.133	38.45	-17.20	
		841.5	-2.30	1 / 77	25.57	21.12	0.129	38.45	-17.33	
	QPSK	831.5	-2.30	1 / 1	25.53	21.08	0.128	38.45	-17.37	
		836.5	-2.30	1 / 77	25.65	21.20	0.132	38.45	-17.25	
		841.5	-2.30	1 / 36	25.69	21.24	0.133	38.45	-17.21	
		16-QAM	841.5	-2.30	1 / 36	24.53	20.08	0.102	38.45	-18.37
		64-QAM	831.5	-2.30	1 / 1	23.71	19.26	0.084	38.45	-19.19
		256-QAM	841.5	-2.30	1 / 36	20.79	16.34	0.043	38.45	-22.11
20 MHz	$\pi/2$ BPSK	834.0	-2.30	1 / 50	25.70	21.25	0.133	38.45	-17.20	
		836.5	-2.30	1 / 1	25.61	21.16	0.131	38.45	-17.29	
		839.0	-2.30	1 / 50	25.67	21.22	0.132	38.45	-17.23	
	QPSK	834.0	-2.30	1 / 1	25.69	21.24	0.133	38.45	-17.21	
		836.5	-2.30	1 / 1	25.40	20.95	0.124	38.45	-17.50	
		839.0	-2.30	1 / 104	25.39	20.94	0.124	38.45	-17.51	
		16-QAM	834.0	-2.30	1 / 104	24.67	20.22	0.105	38.45	-18.23
		64-QAM	834.0	-2.30	1 / 1	23.70	19.25	0.084	38.45	-19.20
		256-QAM	834.0	-2.30	1 / 50	20.78	16.33	0.043	38.45	-22.12

Table 7-5. Antenna 4 ERP Data (NR Band n26)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device				

NR Band n5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	826.5	-2.30	1 / 12	25.53	21.08	0.128	38.45	-17.37
		836.5	-2.30	1 / 12	25.65	21.20	0.132	38.45	-17.25
		846.5	-2.30	1 / 23	25.48	21.03	0.127	38.45	-17.42
	QPSK	826.5	-2.30	1 / 1	25.70	21.25	0.133	38.45	-17.20
		836.5	-2.30	1 / 23	25.64	21.19	0.132	38.45	-17.26
		846.5	-2.30	1 / 1	25.63	21.18	0.131	38.45	-17.27
	16-QAM	826.5	-2.30	1 / 12	24.61	20.16	0.104	38.45	-18.29
		846.5	-2.30	1 / 23	23.72	19.27	0.085	38.45	-19.18
		846.5	-2.30	1 / 12	20.82	16.37	0.043	38.45	-22.08
10 MHz	π/2 BPSK	829.0	-2.30	1 / 25	25.70	21.25	0.133	38.45	-17.20
		836.5	-2.30	1 / 1	25.69	21.24	0.133	38.45	-17.21
		844.0	-2.30	1 / 25	25.53	21.08	0.128	38.45	-17.37
	QPSK	829.0	-2.30	1 / 50	25.49	21.04	0.127	38.45	-17.41
		836.5	-2.30	1 / 50	25.60	21.15	0.130	38.45	-17.30
		844.0	-2.30	1 / 25	25.69	21.24	0.133	38.45	-17.21
	16-QAM	829.0	-2.30	1 / 50	24.70	20.25	0.106	38.45	-18.20
		844.0	-2.30	1 / 1	23.66	19.21	0.083	38.45	-19.24
		844.0	-2.30	1 / 50	20.73	16.28	0.042	38.45	-22.17
15 MHz	π/2 BPSK	831.5	-2.30	1 / 1	25.59	21.14	0.130	38.45	-17.31
		836.5	-2.30	1 / 1	25.62	21.17	0.131	38.45	-17.28
		841.5	-2.30	1 / 36	25.59	21.14	0.130	38.45	-17.31
	QPSK	831.5	-2.30	1 / 36	25.47	21.02	0.126	38.45	-17.43
		836.5	-2.30	1 / 77	25.70	21.25	0.133	38.45	-17.20
		841.5	-2.30	1 / 36	25.44	20.99	0.126	38.45	-17.46
	16-QAM	841.5	-2.30	1 / 77	24.67	20.22	0.105	38.45	-18.23
		836.5	-2.30	1 / 77	23.66	19.21	0.083	38.45	-19.24
		841.5	-2.30	1 / 36	20.69	16.24	0.042	38.45	-22.21
20 MHz	π/2 BPSK	834.0	-2.30	1 / 104	25.60	21.15	0.130	38.45	-17.30
		836.5	-2.30	1 / 50	25.59	21.14	0.130	38.45	-17.31
		839.0	-2.30	1 / 50	25.62	21.17	0.131	38.45	-17.28
	QPSK	834.0	-2.30	1 / 1	25.70	21.25	0.133	38.45	-17.20
		836.5	-2.30	1 / 104	25.63	21.18	0.131	38.45	-17.27
		839.0	-2.30	1 / 1	25.66	21.21	0.132	38.45	-17.24
	16-QAM	836.5	-2.30	1 / 1	24.69	20.24	0.106	38.45	-18.21
		834.0	-2.30	1 / 50	23.66	19.21	0.083	38.45	-19.24
		836.5	-2.30	1 / 50	20.76	16.31	0.043	38.45	-22.14

Table 7-6. Antenna 4 ERP Data (NR Band n5)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device			

WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	25.52	-2.30	21.07	0.128	38.45	-17.38
836.60	WCDMA850	25.60	-2.30	21.15	0.130	38.45	-17.30
846.60	WCDMA850	25.64	-2.30	21.19	0.132	38.45	-17.26

Table 7-7. Antenna 4 ERP Data (WCDMA Cell)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 85 of 112

7.5.2 Antenna 2 – ERP

LTE Band 26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.00	1 / 0	24.45	20.30	0.107	38.45	-18.15
		836.5	-2.00	1 / 0	24.46	20.31	0.107	38.45	-18.14
		848.3	-2.00	1 / 0	24.44	20.29	0.107	38.45	-18.16
	16-QAM	824.7	-2.00	1 / 0	24.28	20.13	0.103	38.45	-18.32
		836.5	-2.00	1 / 0	23.16	19.01	0.080	38.45	-19.44
	64-QAM	836.5	-2.00	1 / 5	20.15	16.00	0.040	38.45	-22.45
		836.5	-2.00	1 / 14	24.37	20.22	0.105	38.45	-18.23
	3 MHz	836.5	-2.00	1 / 0	24.26	20.11	0.103	38.45	-18.34
		847.5	-2.00	1 / 0	24.33	20.18	0.104	38.45	-18.27
		825.5	-2.00	1 / 0	24.21	20.06	0.101	38.45	-18.39
		825.5	-2.00	1 / 0	23.14	18.99	0.079	38.45	-19.46
5 MHz	QPSK	836.5	-2.00	1 / 0	20.27	16.12	0.041	38.45	-22.33
		826.5	-2.00	1 / 0	24.70	20.55	0.114	38.45	-17.90
		836.5	-2.00	1 / 0	24.35	20.20	0.105	38.45	-18.25
	16-QAM	846.5	-2.00	1 / 0	24.60	20.45	0.111	38.45	-18.00
		836.5	-2.00	1 / 0	24.44	20.29	0.107	38.45	-18.16
	64-QAM	836.5	-2.00	1 / 0	23.12	18.97	0.079	38.45	-19.48
		826.5	-2.00	1 / 0	20.29	16.14	0.041	38.45	-22.31
	10 MHz	829.0	-2.00	1 / 0	24.55	20.40	0.110	38.45	-18.05
		836.5	-2.00	1 / 0	24.32	20.17	0.104	38.45	-18.28
		844.0	-2.00	1 / 0	24.42	20.27	0.106	38.45	-18.18
		829.0	-2.00	1 / 49	24.14	19.99	0.100	38.45	-18.46
	16-QAM	829.0	-2.00	1 / 0	23.22	19.07	0.081	38.45	-19.38
		836.5	-2.00	1 / 0	20.10	15.95	0.039	38.45	-22.50

Table 7-8. Antenna 2 ERP Data (LTE Band 26)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device				

LTE Band 5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.00	1 / 0	24.51	20.36	0.109	38.45	-18.09
		836.5	-2.00	1 / 3	24.24	20.09	0.102	38.45	-18.36
		848.3	-2.00	1 / 0	24.63	20.48	0.112	38.45	-17.97
	16-QAM	848.3	-2.00	1 / 5	24.26	20.11	0.103	38.45	-18.34
	64-QAM	848.3	-2.00	1 / 0	23.20	19.05	0.080	38.45	-19.40
	256-QAM	824.7	-2.00	1 / 0	20.19	16.04	0.040	38.45	-22.41
3 MHz	QPSK	825.5	-2.00	1 / 0	24.31	20.16	0.104	38.45	-18.29
		836.5	-2.00	1 / 0	24.09	19.94	0.099	38.45	-18.51
		847.5	-2.00	1 / 0	24.46	20.31	0.107	38.45	-18.14
	16-QAM	847.5	-2.00	1 / 0	24.18	20.03	0.101	38.45	-18.42
	64-QAM	847.5	-2.00	1 / 0	23.34	19.19	0.083	38.45	-19.26
	256-QAM	847.5	-2.00	1 / 0	20.15	16.00	0.040	38.45	-22.45
5 MHz	QPSK	826.5	-2.00	1 / 0	24.41	20.26	0.106	38.45	-18.19
		836.5	-2.00	1 / 0	24.26	20.11	0.103	38.45	-18.34
		846.5	-2.00	1 / 0	24.70	20.55	0.114	38.45	-17.90
	16-QAM	826.5	-2.00	1 / 0	24.35	20.20	0.105	38.45	-18.25
	64-QAM	846.5	-2.00	1 / 0	23.29	19.14	0.082	38.45	-19.31
	256-QAM	846.5	-2.00	1 / 0	20.28	16.13	0.041	38.45	-22.32
10 MHz	QPSK	829.0	-2.00	1 / 25	24.23	20.08	0.102	38.45	-18.37
		836.5	-2.00	1 / 49	24.14	19.99	0.100	38.45	-18.46
		844.0	-2.00	1 / 49	24.50	20.35	0.108	38.45	-18.10
	16-QAM	844.0	-2.00	1 / 49	24.27	20.12	0.103	38.45	-18.33
	64-QAM	844.0	-2.00	1 / 49	23.18	19.03	0.080	38.45	-19.42
	256-QAM	844.0	-2.00	1 / 0	20.18	16.03	0.040	38.45	-22.42

Table 7-9. Antenna 2 ERP Data (LTE Band 5)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager
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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	24.37	-2.00	20.22	0.105	38.45	-18.23
				20475	831.5	1	49		20574	841.4	1	0	24.42	-2.00	20.27	0.106	38.45	-18.18
				20600	844.0	1	0		20501	834.1	1	49	24.56	-2.00	20.41	0.110	38.45	-18.04
			QPSK	20600	844	50	0	QPSK	20501	834.1	50	0	23.12	-2.00	18.97	0.079	38.45	-19.48
				20600	844	50	0		20501	834.1	50	0	22.35	-2.00	18.20	0.066	38.45	-20.25
			16-QAM	20600	844	50	0	16-QAM	20501	834.1	50	0	22.19	-2.00	18.04	0.064	38.45	-20.41
				20600	844	50	0		20501	834.1	50	0	22.19	-2.00	18.04	0.064	38.45	-20.41
			256-QAM	20600	844	50	0	256-QAM	20501	834.1	50	0	20.22	-2.00	16.07	0.040	38.45	-22.38

Table 7-10. Antenna 2 ERP Data (ULCA LTE Band 5)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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NR Band n26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	826.5	-2.00	1 / 1	24.70	20.55	0.114	38.45	-17.90
		836.5	-2.00	1 / 12	24.56	20.41	0.110	38.45	-18.04
		846.5	-2.00	1 / 23	24.67	20.52	0.113	38.45	-17.93
	QPSK	826.5	-2.00	1 / 1	24.56	20.41	0.110	38.45	-18.04
		836.5	-2.00	1 / 23	24.42	20.27	0.106	38.45	-18.18
		846.5	-2.00	1 / 12	24.48	20.33	0.108	38.45	-18.12
	16-QAM	836.5	-2.00	1 / 12	23.70	19.55	0.090	38.45	-18.90
	64-QAM	846.5	-2.00	1 / 12	22.69	18.54	0.071	38.45	-19.91
	256-QAM	826.5	-2.00	1 / 1	19.55	15.40	0.035	38.45	-23.05
	π/2 BPSK	829.0	-2.00	1 / 50	24.66	20.51	0.112	38.45	-17.94
		836.5	-2.00	1 / 1	24.65	20.50	0.112	38.45	-17.95
		844.0	-2.00	1 / 25	24.70	20.55	0.114	38.45	-17.90
10 MHz	QPSK	829.0	-2.00	1 / 1	24.34	20.19	0.104	38.45	-18.26
		836.5	-2.00	1 / 50	24.52	20.37	0.109	38.45	-18.08
		844.0	-2.00	1 / 50	24.50	20.35	0.108	38.45	-18.10
	16-QAM	844.0	-2.00	1 / 1	23.59	19.44	0.088	38.45	-19.01
	64-QAM	844.0	-2.00	1 / 1	22.67	18.52	0.071	38.45	-19.93
	256-QAM	844.0	-2.00	1 / 50	19.76	15.61	0.036	38.45	-22.84
	π/2 BPSK	831.5	-2.00	1 / 77	24.52	20.37	0.109	38.45	-18.08
		836.5	-2.00	1 / 36	24.47	20.32	0.108	38.45	-18.13
		841.5	-2.00	1 / 77	24.45	20.30	0.107	38.45	-18.15
	QPSK	831.5	-2.00	1 / 77	24.70	20.55	0.114	38.45	-17.90
		836.5	-2.00	1 / 1	24.32	20.17	0.104	38.45	-18.28
		841.5	-2.00	1 / 77	24.46	20.31	0.107	38.45	-18.14
15 MHz	16-QAM	836.5	-2.00	1 / 1	23.69	19.54	0.090	38.45	-18.91
	64-QAM	841.5	-2.00	1 / 36	22.66	18.51	0.071	38.45	-19.94
	256-QAM	836.5	-2.00	1 / 1	19.78	15.63	0.037	38.45	-22.82
	π/2 BPSK	834.0	-2.00	1 / 1	24.38	20.23	0.105	38.45	-18.22
		836.5	-2.00	1 / 50	24.50	20.35	0.108	38.45	-18.10
		839.0	-2.00	1 / 1	24.70	20.55	0.114	38.45	-17.90
	QPSK	834.0	-2.00	1 / 50	24.63	20.48	0.112	38.45	-17.97
		836.5	-2.00	1 / 50	24.63	20.48	0.112	38.45	-17.97
		839.0	-2.00	1 / 104	24.66	20.51	0.112	38.45	-17.94
	16-QAM	834.0	-2.00	1 / 104	23.65	19.50	0.089	38.45	-18.95
	64-QAM	834.0	-2.00	1 / 104	22.69	18.54	0.071	38.45	-19.91
	256-QAM	836.5	-2.00	1 / 1	19.75	15.60	0.036	38.45	-22.85

Table 7-11. Antenna 2 ERP Data (NR Band n26)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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NR Band n5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	
5 MHz	π/2 BPSK	826.5	-2.00	1 / 1	24.27	20.12	0.103	38.45	-18.33	
		836.5	-2.00	1 / 23	24.70	20.55	0.114	38.45	-17.90	
		846.5	-2.00	1 / 1	24.68	20.53	0.113	38.45	-17.92	
	QPSK	826.5	-2.00	1 / 23	24.36	20.21	0.105	38.45	-18.24	
		836.5	-2.00	1 / 12	24.70	20.55	0.114	38.45	-17.90	
		846.5	-2.00	1 / 23	24.63	20.48	0.112	38.45	-17.97	
	16-QAM	836.5	-2.00	1 / 12	23.59	19.44	0.088	38.45	-19.01	
	64-QAM	826.5	-2.00	1 / 12	22.73	18.58	0.072	38.45	-19.87	
	256-QAM	836.5	-2.00	1 / 1	19.68	15.53	0.036	38.45	-22.92	
	π/2 BPSK	829.0	-2.00	1 / 50	24.49	20.34	0.108	38.45	-18.11	
10 MHz		836.5	-2.00	1 / 1	24.70	20.55	0.114	38.45	-17.90	
		844.0	-2.00	1 / 50	24.58	20.43	0.110	38.45	-18.02	
QPSK	829.0	-2.00	1 / 25	24.49	20.34	0.108	38.45	-18.11		
	836.5	-2.00	1 / 1	24.51	20.36	0.109	38.45	-18.09		
	844.0	-2.00	1 / 25	24.65	20.50	0.112	38.45	-17.95		
16-QAM	844.0	-2.00	1 / 50	23.73	19.58	0.091	38.45	-18.87		
64-QAM	836.5	-2.00	1 / 50	22.72	18.57	0.072	38.45	-19.88		
256-QAM	829.0	-2.00	1 / 25	19.83	15.68	0.037	38.45	-22.77		
15 MHz	π/2 BPSK	831.5	-2.00	1 / 77	24.63	20.48	0.112	38.45	-17.97	
		836.5	-2.00	1 / 36	24.50	20.35	0.108	38.45	-18.10	
		841.5	-2.00	1 / 1	24.52	20.37	0.109	38.45	-18.08	
	QPSK	831.5	-2.00	1 / 77	24.70	20.55	0.114	38.45	-17.90	
		836.5	-2.00	1 / 36	24.62	20.47	0.111	38.45	-17.98	
		841.5	-2.00	1 / 1	24.63	20.48	0.112	38.45	-17.97	
	16-QAM	831.5	-2.00	1 / 36	23.78	19.63	0.092	38.45	-18.82	
	64-QAM	836.5	-2.00	1 / 36	22.71	18.56	0.072	38.45	-19.89	
	256-QAM	831.5	-2.00	1 / 36	19.88	15.73	0.037	38.45	-22.72	
20 MHz	π/2 BPSK	834.0	-2.00	1 / 50	24.70	20.55	0.114	38.45	-17.90	
		836.5	-2.00	1 / 50	24.50	20.35	0.108	38.45	-18.10	
		839.0	-2.00	1 / 1	24.70	20.55	0.114	38.45	-17.90	
	QPSK	834.0	-2.00	1 / 50	24.65	20.50	0.112	38.45	-17.95	
		836.5	-2.00	1 / 104	24.53	20.38	0.109	38.45	-18.07	
		839.0	-2.00	1 / 1	24.52	20.37	0.109	38.45	-18.08	
	16-QAM	834.0	-2.00	1 / 104	23.65	19.50	0.089	38.45	-18.95	
	64-QAM	836.5	-2.00	1 / 1	22.64	18.49	0.071	38.45	-19.96	
	256-QAM	839.0	-2.00	1 / 50	19.78	15.63	0.037	38.45	-22.82	

Table 7-12. Antenna 2 ERP Data (NR Band n5)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	24.62	-2.00	20.47	0.111	38.45	-17.98
836.60	WCDMA850	24.53	-2.00	20.38	0.109	38.45	-18.07
846.60	WCDMA850	24.59	-2.00	20.44	0.111	38.45	-18.01

Table 7-13. Antenna 2 ERP Data (WCDMA Cell)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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7.6 Radiated Spurious Emissions

§2.1053, 22.917(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 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

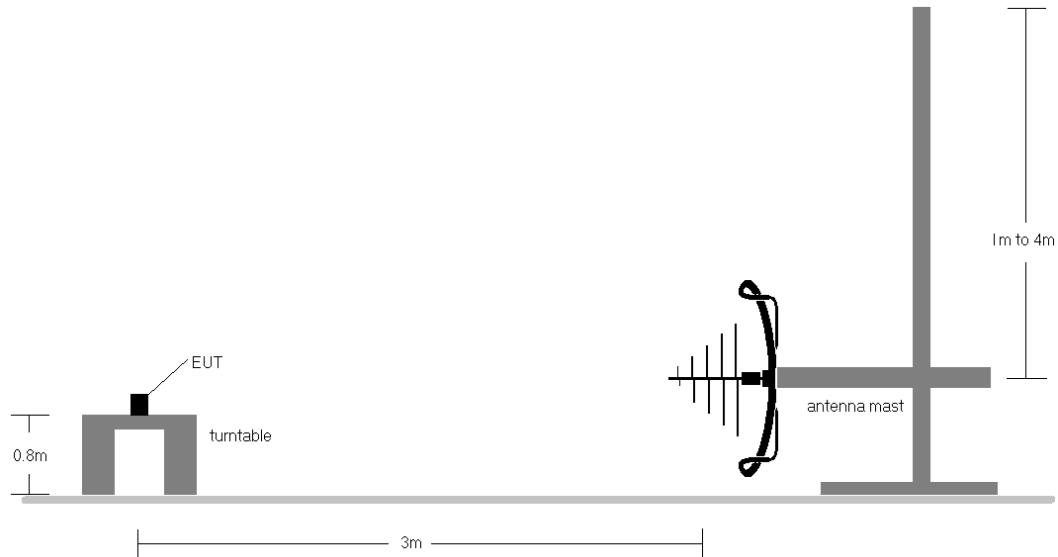


Figure 7-9. Test Instrument & Measurement Setup < 1GHz

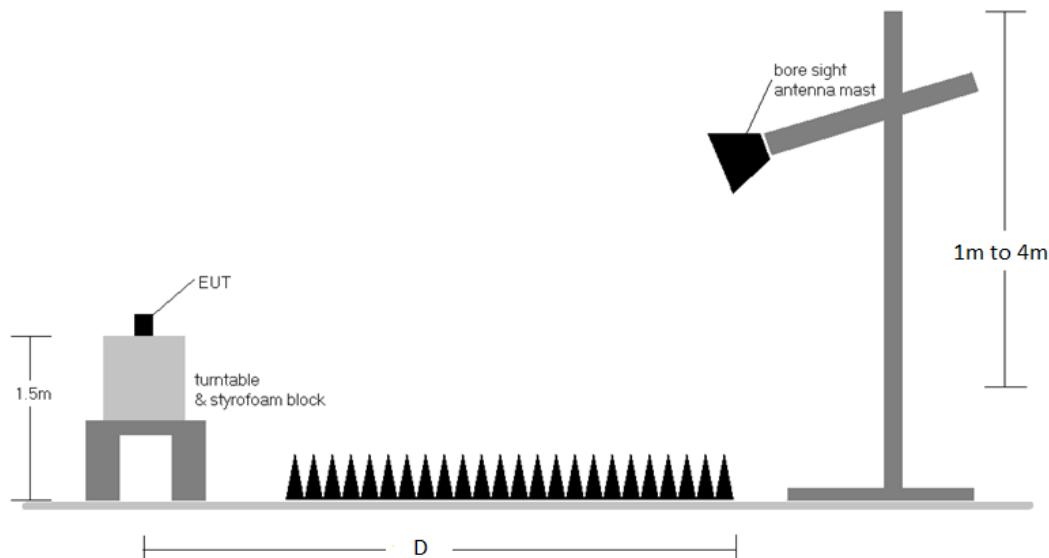


Figure 7-10. Test Instrument & Measurement Setup >1 GHz

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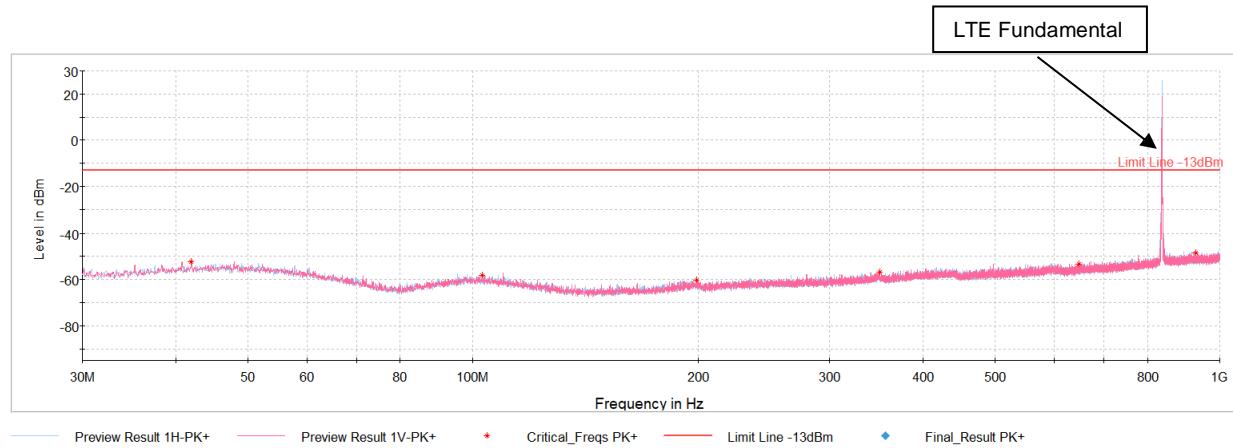
Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. 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.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
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. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.

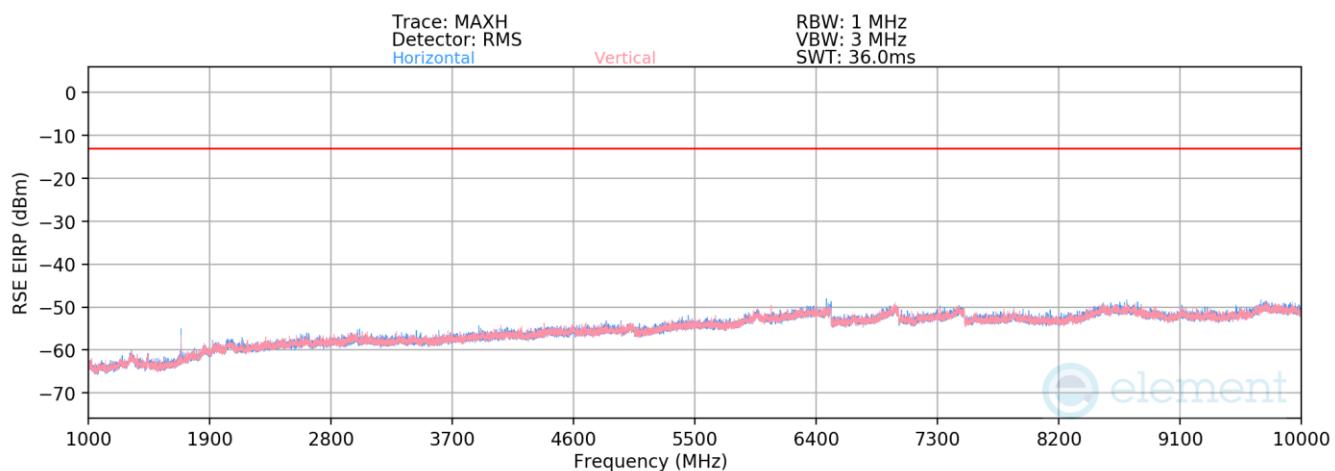
FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.1 Antenna 4 – Radiated Spurious Emission Measurements

LTE Band 26/5



Plot 7-114. Antenna 4 Radiated Spurious Plot below 1GHz (LTE Band 26/5)



Plot 7-115. Antenna 4 Radiated Spurious Plot above 1GHz (LTE Band 26/5)

FCC ID: BCGA3269	 PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	-	-	-76.81	-3.28	26.91	-68.34	-13.00	-55.34
2487.0	V	-	-	-77.59	1.17	30.58	-64.67	-13.00	-51.67
3316.0	H	-	-	-77.95	2.83	31.87	-63.38	-13.00	-50.38

Table 7-14. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	-	-	-76.57	-3.28	27.16	-68.10	-13.00	-55.10
2509.5	V	-	-	-77.61	1.25	30.64	-64.62	-13.00	-51.62
3346.0	H	-	-	-78.34	3.22	31.87	-63.38	-13.00	-50.38

Table 7-15. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

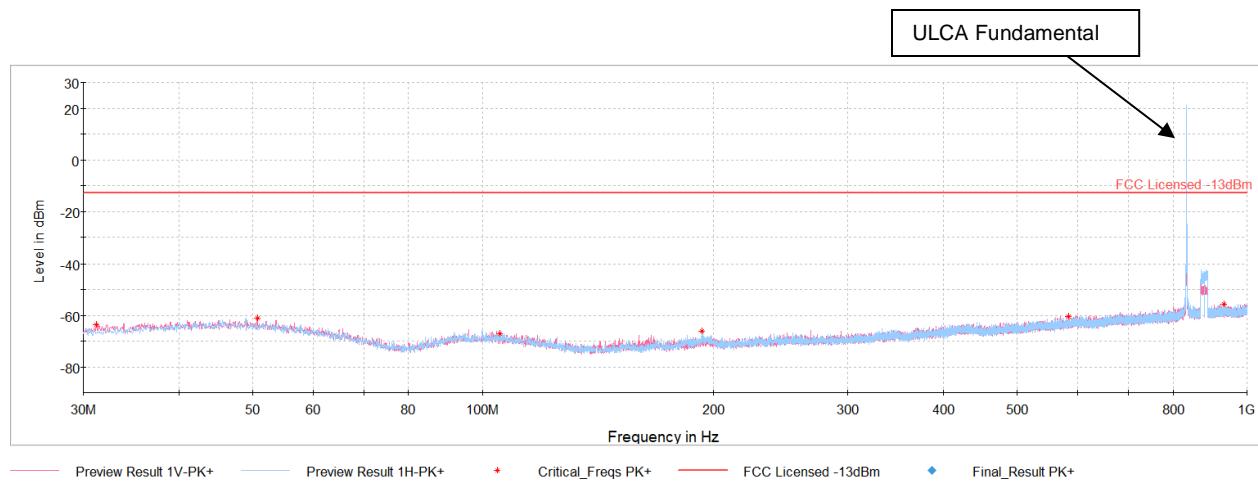
Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	-	-	-76.44	-3.28	27.28	-67.97	-13.00	-54.97
2532.0	V	-	-	-77.86	1.38	30.52	-64.74	-13.00	-51.74
3376.0	H	-	-	-78.16	3.15	31.99	-63.27	-13.00	-50.27

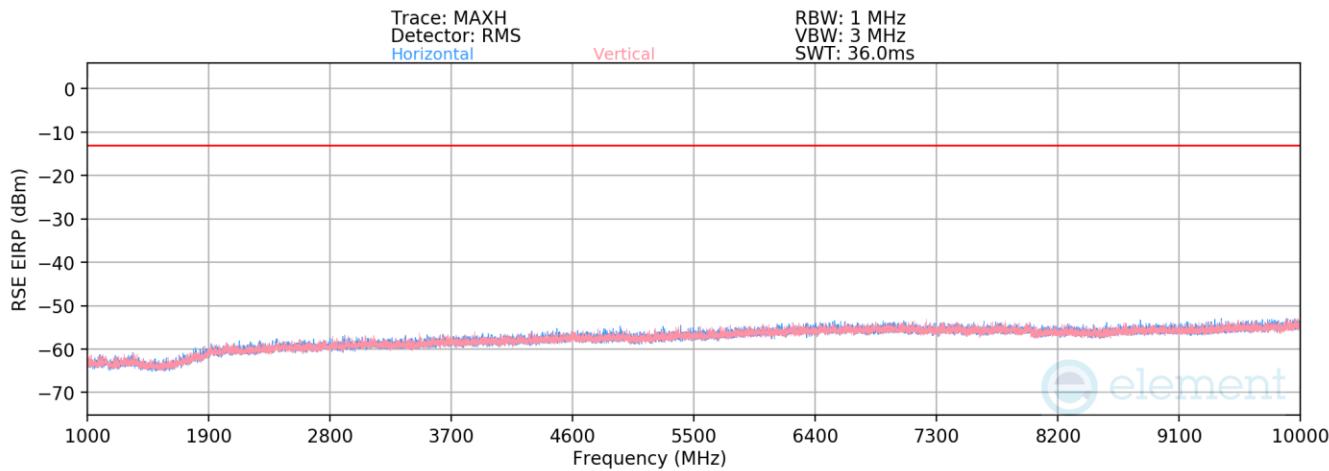
Table 7-16. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – High Channel)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager
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ULCA LTE Band 5



Plot 7-116. Antenna 4 Radiated Spurious Plot below 1GHz (ULCA LTE Band 5)



Plot 7-117. Antenna 4 Radiated Spurious Plot above 1GHz (ULCA LTE Band 5)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	-	-	-72.86	-5.81	28.33	-66.93	-13.00	-53.93
2487.0	V	-	-	-74.99	-1.63	30.37	-64.88	-13.00	-51.88
3316.0	V	-	-	-75.48	-0.14	31.38	-63.87	-13.00	-50.87

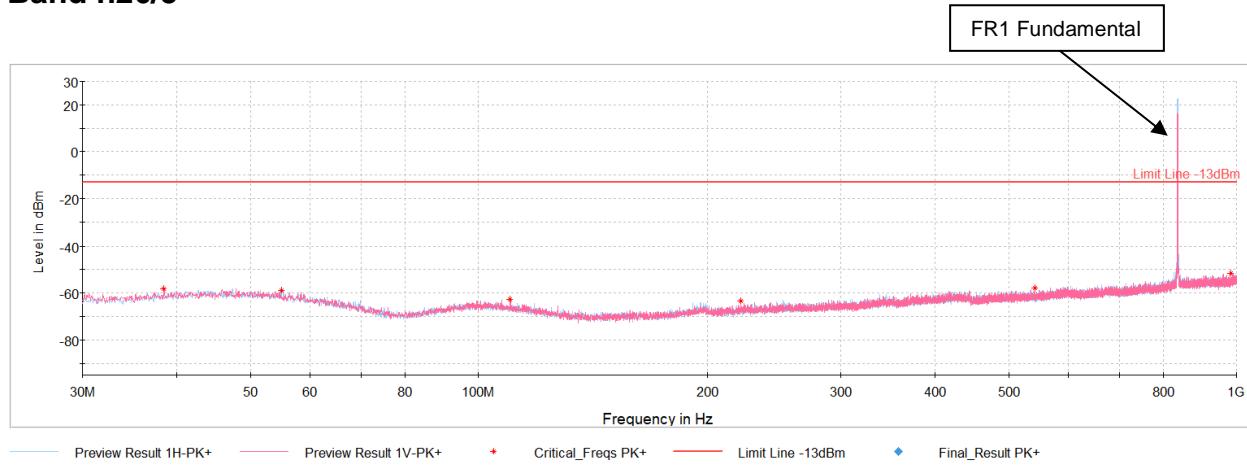
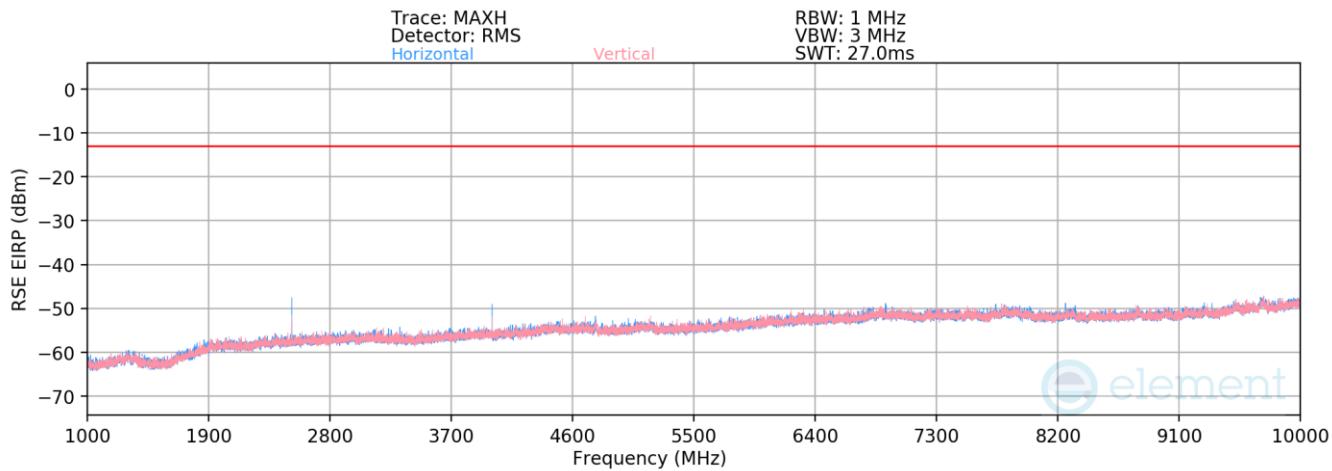
Table 7-17. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	-	-	-72.92	-5.84	28.24	-67.01	-13.00	-54.01
2532.0	V	-	-	-75.44	-1.47	30.09	-65.17	-13.00	-52.17
3376.0	V	-	-	-75.86	-0.14	31.00	-64.26	-13.00	-51.26

Table 7-18. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: BCGA3269	 element				PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device				

NR Band n26/5

Plot 7-118. Antenna 4 Radiated Spurious Plot below 1GHz (NR Band n26/5)

Plot 7-119. Antenna 4 Radiated Spurious Plot above 1GHz (NR Band n26/5)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 99 of 112

Bandwidth (MHz):	20
Frequency (MHz):	834.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	114	229	-69.42	-1.99	35.59	-59.67	-13.00	-46.67
2502.0	V	222	142	-69.66	2.31	39.65	-55.61	-13.00	-42.61
3336.0	V	-	-	-78.81	3.89	32.08	-63.18	-13.00	-50.18
4170.0	H	-	-	-79.17	5.78	33.61	-61.65	-13.00	-48.65
5004.0	V	-	-	-80.93	7.81	33.89	-61.37	-13.00	-48.37

Table 7-19. Antenna 4 Radiated Spurious Data (NR Band n26/5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	-	-	-77.94	-1.90	27.16	-68.10	-13.00	-55.10
2509.5	V	288	176	-66.19	2.31	43.12	-52.13	-13.00	-39.13
3346.0	H	-	-	-78.79	3.89	32.10	-63.16	-13.00	-50.16
4182.5	H	-	-	-78.96	5.78	33.81	-61.44	-13.00	-48.44
5019.0	H	-	-	-80.39	7.37	33.98	-61.28	-13.00	-48.28

Table 7-20. Antenna 4 Radiated Spurious Data (NR Band n26/5 – Mid Channel)

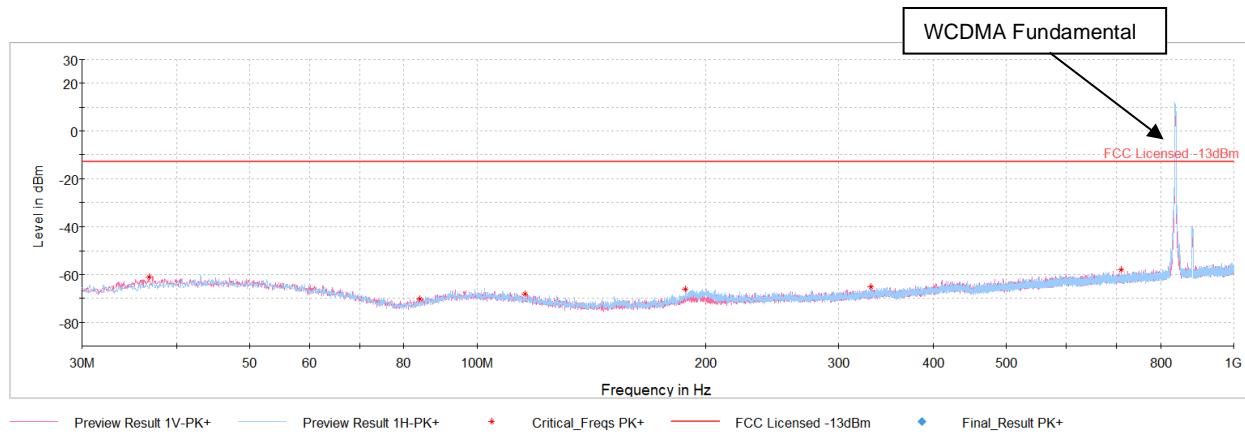
Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	-	-	-78.02	-1.99	26.99	-68.27	-13.00	-55.27
2517.0	H	205	122	-68.69	2.41	40.72	-54.53	-13.00	-41.53
3356.0	H	-	-	-78.90	3.89	31.99	-63.27	-13.00	-50.27
4195.0	H	253	137	-61.95	6.44	51.49	-43.77	-13.00	-30.77
5034.0	H	-	-	-80.50	7.59	34.08	-61.17	-13.00	-48.17
5873.0	H	-	-	-81.48	9.87	35.38	-59.88	-13.00	-46.88
6712.0	V	-	-	-81.65	11.34	36.68	-58.58	-13.00	-45.58

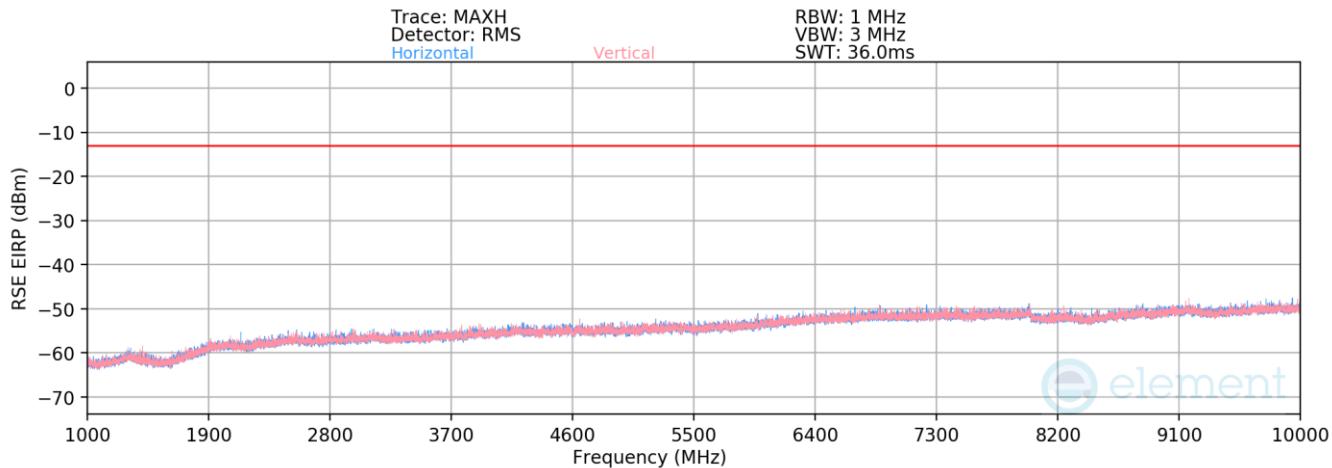
Table 7-21. Antenna 4 Radiated Spurious Data (NR Band n26/5 – High Channel)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device				

WCDMA Cell



Plot 7-120. Antenna 4 Radiated Spurious Plot below 1GHz (WCDMA Cell)



Plot 7-121. Antenna 4 Radiated Spurious Plot above 1GHz (WCDMA Cell)

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 101 of 112

Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.8	H	-	-	-76.60	-1.87	28.53	-66.73	-13.00	-53.73
2479.2	H	-	-	-77.01	2.97	32.96	-62.30	-13.00	-49.30
3305.6	V	-	-	-78.15	4.13	32.98	-62.28	-13.00	-49.28

Table 7-22. Antenna 4 Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	V	-	-	-75.64	-1.87	29.49	-65.77	-13.00	-52.77
2509.8	H	-	-	-77.58	3.17	32.59	-62.67	-13.00	-49.67
3346.4	V	-	-	-78.31	4.59	33.28	-61.98	-13.00	-48.98

Table 7-23. Antenna 4 Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	V	-	-	-77.11	-1.33	28.56	-66.70	-13.00	-53.70
2539.8	V	-	-	-77.35	3.13	32.78	-62.47	-13.00	-49.47
3386.4	H	-	-	-78.00	4.13	33.13	-62.13	-13.00	-49.13

Table 7-24. Antenna 4 Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device				

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7.6.2 Antenna 2 – Radiated Spurious Emission Measurements

LTE Band 26/5

Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	199	111	-73.50	-3.25	30.25	-65.01	-13.00	-52.01
2487.0	V	-	-	-77.59	1.25	30.66	-64.60	-13.00	-51.60
3316.0	H	-	-	-78.46	3.28	31.82	-63.44	-13.00	-50.44
4145.0	V	-	-	-78.62	4.15	32.53	-62.73	-13.00	-49.73

Table 7-25. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	246	112	-72.69	-3.28	31.04	-64.22	-13.00	-51.22
2509.5	H	-	-	-77.58	1.21	30.63	-64.63	-13.00	-51.63
3346.0	V	-	-	-78.48	3.28	31.80	-63.45	-13.00	-50.45
4182.5	H	-	-	-78.56	4.11	32.55	-62.71	-13.00	-49.71

Table 7-26. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	223	110	-68.90	-3.28	34.82	-60.44	-13.00	-47.44
2532.0	H	-	-	-77.66	1.25	30.59	-64.67	-13.00	-51.67
3376.0	V	-	-	-78.56	3.21	31.65	-63.61	-13.00	-50.61
4220.0	H	-	-	-79.03	4.48	32.45	-62.81	-13.00	-49.81

Table 7-27. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – High Channel)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device					

ULCA LTE Band 5

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	-	-	-73.81	-5.84	27.35	-67.91	-13.00	-54.91
2487.0	V	-	-	-75.31	-1.54	30.15	-65.11	-13.00	-52.11
3316.0	H	-	-	-75.68	-0.14	31.18	-64.08	-13.00	-51.08

Table 7-28. Antenna 2 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	-	-	-71.92	-5.81	29.27	-65.98	-13.00	-52.98
2532.0	H	-	-	-75.29	-1.61	30.10	-65.16	-13.00	-52.16
3376.0	V	-	-	-75.87	-0.14	30.99	-64.27	-13.00	-51.27

Table 7-29. Antenna 2 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: BCGA3269	 element				PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device				

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NR Band n26/5

Bandwidth (MHz):	20
Frequency (MHz):	834.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	101	308	-74.11	-3.28	29.61	-65.65	-13.00	-52.65
2502.0	V	-	-	-77.68	1.25	30.58	-64.68	-13.00	-51.68
3336.0	H	-	-	-78.40	3.22	31.82	-63.44	-13.00	-50.44
4170.0	V	-	-	-78.54	4.11	32.58	-62.68	-13.00	-49.68

Table 7-30. Antenna 2 Radiated Spurious Data (NR Band n26/5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	101	301	-73.08	-3.28	30.64	-64.62	-13.00	-51.62
2509.5	V	-	-	-77.57	1.25	30.68	-64.58	-13.00	-51.58
3346.0	H	-	-	-78.25	3.21	31.96	-63.29	-13.00	-50.29
4182.5	H	-	-	-78.70	4.11	32.42	-62.84	-13.00	-49.84

Table 7-31. Antenna 2 Radiated Spurious Data (NR Band n26/5 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	250	314	-72.28	-3.28	31.45	-63.81	-13.00	-50.81
2517.0	V	-	-	-77.62	1.25	30.63	-64.62	-13.00	-51.62
3356.0	V	-	-	-78.59	3.28	31.69	-63.57	-13.00	-50.57
4195.0	V	-	-	-78.89	4.51	32.62	-62.64	-13.00	-49.64

Table 7-32. Antenna 2 Radiated Spurious Data (NR Band n26/5 – High Channel)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device					

WCDMA Cell

Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.8	V	-	-	-76.77	-1.87	28.37	-66.89	-13.00	-53.89
2479.2	H	-	-	-77.20	2.97	32.77	-62.49	-13.00	-49.49
3305.6	H	-	-	-77.89	4.02	33.13	-62.12	-13.00	-49.12

Table 7-33. Antenna 2 Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	H	-	-	-76.63	-1.95	28.42	-66.84	-13.00	-53.84
2509.8	V	-	-	-77.56	3.13	32.57	-62.69	-13.00	-49.69
3346.4	V	-	-	-77.80	4.02	33.22	-62.04	-13.00	-49.04

Table 7-34. Antenna 2 Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	H	-	-	-77.11	-1.33	28.56	-66.70	-13.00	-53.70
2539.8	V	-	-	-77.50	3.14	32.64	-62.62	-13.00	-49.62
3386.4	V	-	-	-78.39	4.59	33.20	-62.06	-13.00	-49.06

Table 7-35. Antenna 2 Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: BCGA3269	 element	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device				

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7.7 Frequency Stability / Temperature Variation

§2.1055, 22.355

Test Overview and Limit

Frequency Tolerance testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. All port were tested and only the worst case data were reported. The Frequency Tolerance 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 22, the Frequency Tolerance of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5 \text{ ppm}$) of the center frequency.

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 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 107 of 112

Test Setup

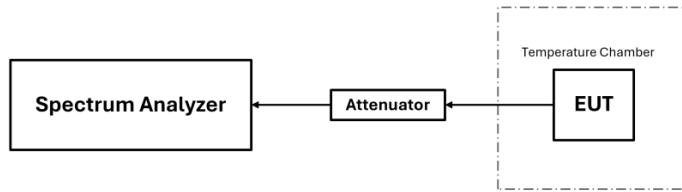


Figure 7-11. LTE Test Instrument & Measurement Setup

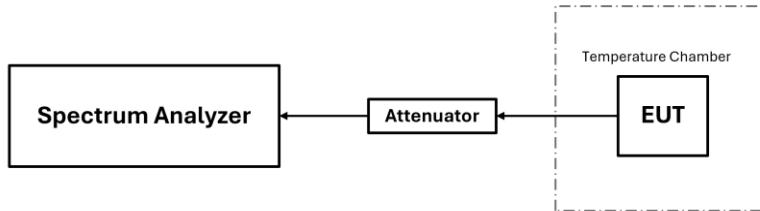


Figure 7-12. FR1 Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Approved by: Technical Manager

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Frequency Tolerance / Temperature Variation

LTE Band 26/5					
		Operating Frequency (Hz):	836,500,000		
		Ref. Voltage (VDC):	3.80		
		Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,499,848	-126.00	-0.0000151
		- 20	836,499,888	-86.00	-0.0000103
		- 10	836,499,882	-92.00	-0.0000110
		0	836,499,925	-49.00	-0.0000059
		+ 10	836,499,846	-128.00	-0.0000153
		+ 20 (Ref)	836,499,974	0.00	0.0000000
		+ 30	836,500,029	55.00	0.0000066
		+ 40	836,499,920	-54.00	-0.0000065
		+ 50	836,500,076	102.00	0.0000122
Battery Endpoint	3.40	+ 20	836,499,919	-55.00	-0.0000066

Table 7-36. LTE Band 26/5 Frequency Tolerance Data

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 109 of 112

Frequency Tolerance / Temperature Variation

NR Band n26/5																							
<table border="1"> <tr> <td>Operating Frequency (Hz):</td><td>836,500,000</td><td colspan="4"></td></tr> <tr> <td>Ref. Voltage (VDC):</td><td>3.80</td><td colspan="4"></td></tr> <tr> <td>Deviation Limit:</td><td>$\pm 0.00025\%$ or 2.5 ppm</td><td colspan="4"></td></tr> </table>						Operating Frequency (Hz):	836,500,000					Ref. Voltage (VDC):	3.80					Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm				
Operating Frequency (Hz):	836,500,000																						
Ref. Voltage (VDC):	3.80																						
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm																						
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)																		
100 %	3.80	- 30	836,500,060	96.00	0.0000115																		
		- 20	836,500,012	48.00	0.0000057																		
		- 10	836,500,020	56.00	0.0000067																		
		0	836,500,017	53.00	0.0000063																		
		+ 10	836,499,926	-38.00	-0.0000045																		
		+ 20 (Ref)	836,499,964	0.00	0.0000000																		
		+ 30	836,500,012	48.00	0.0000057																		
		+ 40	836,500,025	61.00	0.0000073																		
		+ 50	836,499,986	22.00	0.0000026																		
Battery Endpoint	3.40	+ 20	836,500,015	51.00	0.0000061																		

Table 7-37. NR Band n26/n5 Frequency Tolerance Data

FCC ID: BCGA3269	 element PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 110 of 112

Frequency Tolerance / Temperature Variation

WCDMA Cellular					
		Operating Frequency (Hz): 836,600,000 Ref. Voltage (VDC): 3.80 Deviation Limit: $\pm 0.00025\%$ or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,600,017	56.00	0.0000067
		- 20	836,600,053	92.00	0.0000110
		- 10	836,599,908	-53.00	-0.0000063
		0	836,600,009	48.00	0.0000057
		+ 10	836,600,014	53.00	0.0000063
		+ 20 (Ref)	836,599,961	0.00	0.0000000
		+ 30	836,600,015	54.00	0.0000065
		+ 40	836,599,989	28.00	0.0000033
		+ 50	836,600,003	42.00	0.0000050
Battery Endpoint	3.40	+ 20	836,600,027	66.00	0.0000079

Table 7-38. WCDMA Cell Frequency Tolerance Data

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device		Page 111 of 112

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 22 of the FCC rules.

FCC ID: BCGA3269	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2410210075-07-R1.BCG	Test Dates: 7/1/2024 - 12/26/2024	EUT Type: Tablet Device	Page 112 of 112