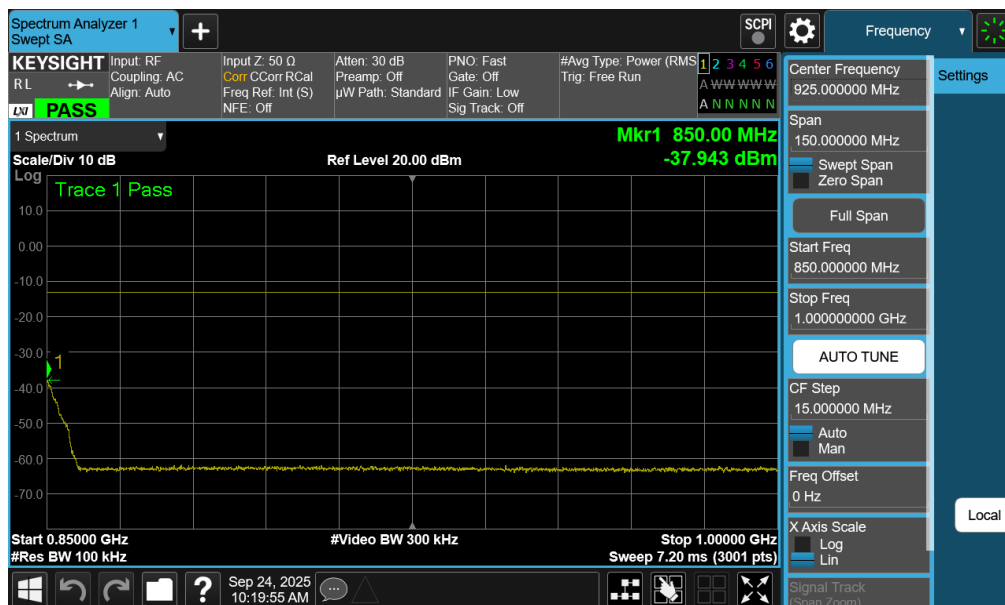
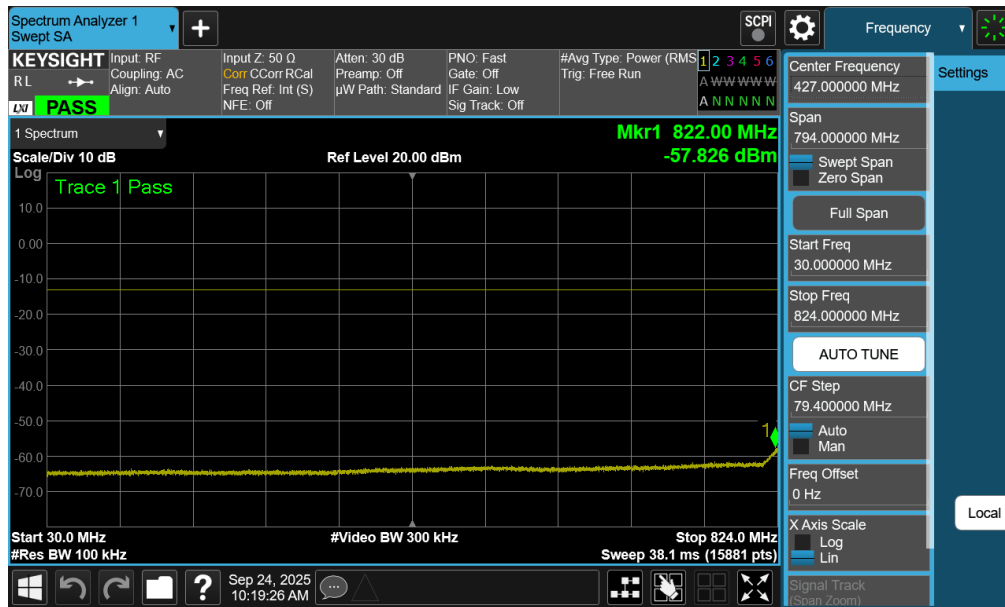
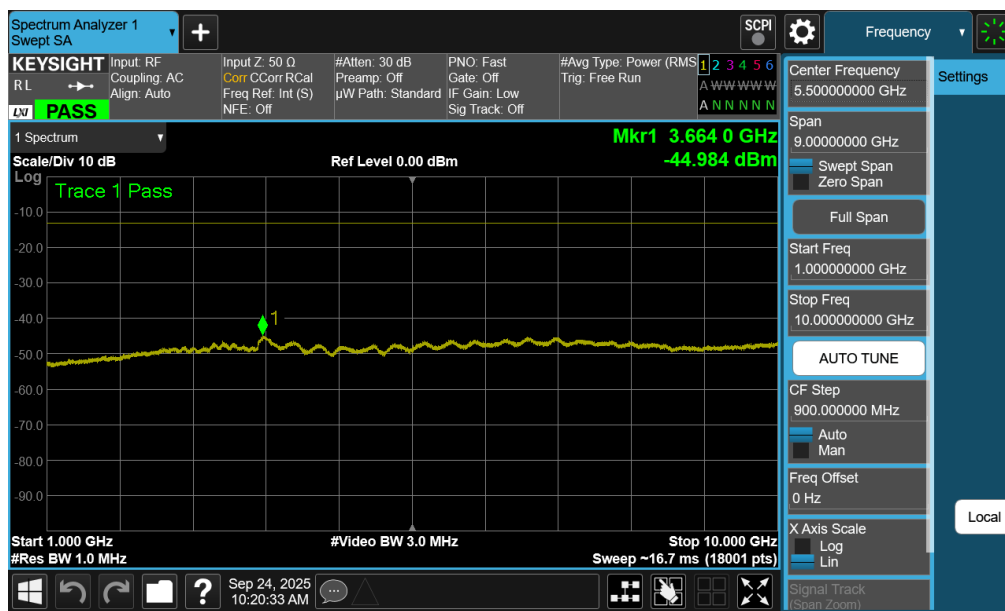




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Plot 7-77. Conducted Spurious Plot (WCDMA Ch. 4233)

FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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7.4 Band Edge Emissions at Antenna Terminal

§2.1051, 22.917(a)

Test Overview

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 x RBW
5. Detector = RMS
6. Number of sweep points $\geq$ 2 x 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.

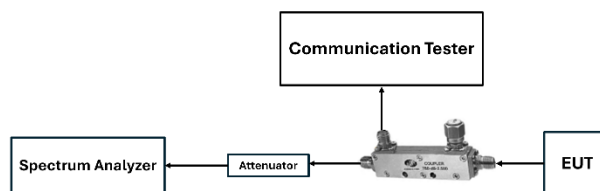


Figure 7-5. LTE Test Instrument & Measurement Setup

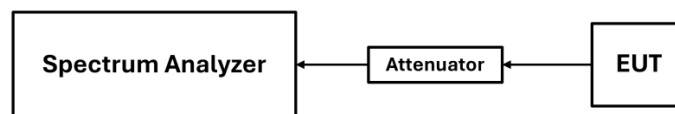


Figure 7-6. FR1 Test Instrument & Measurement Setup

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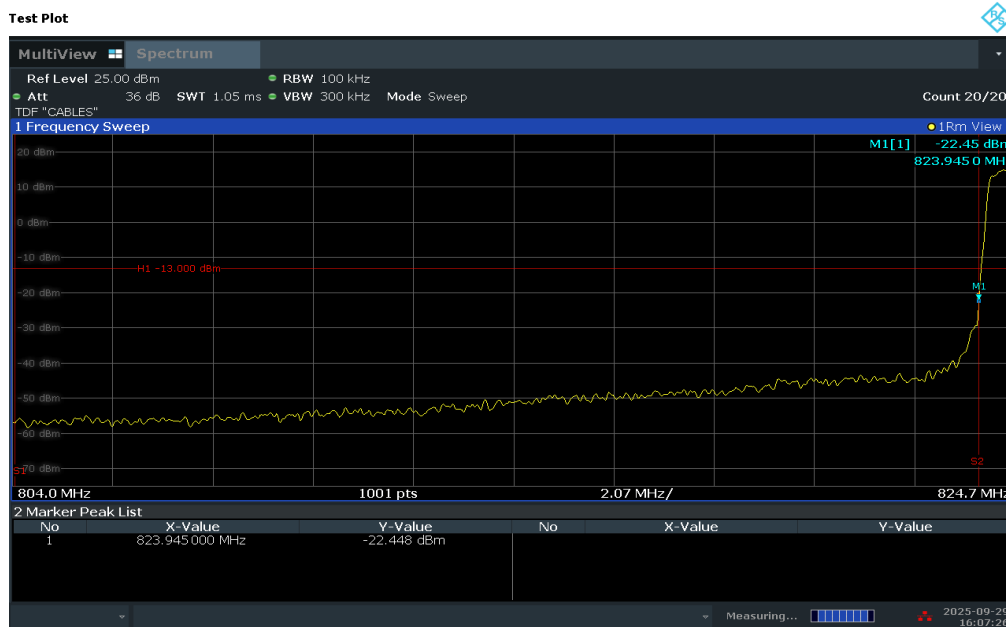
Test Notes

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.

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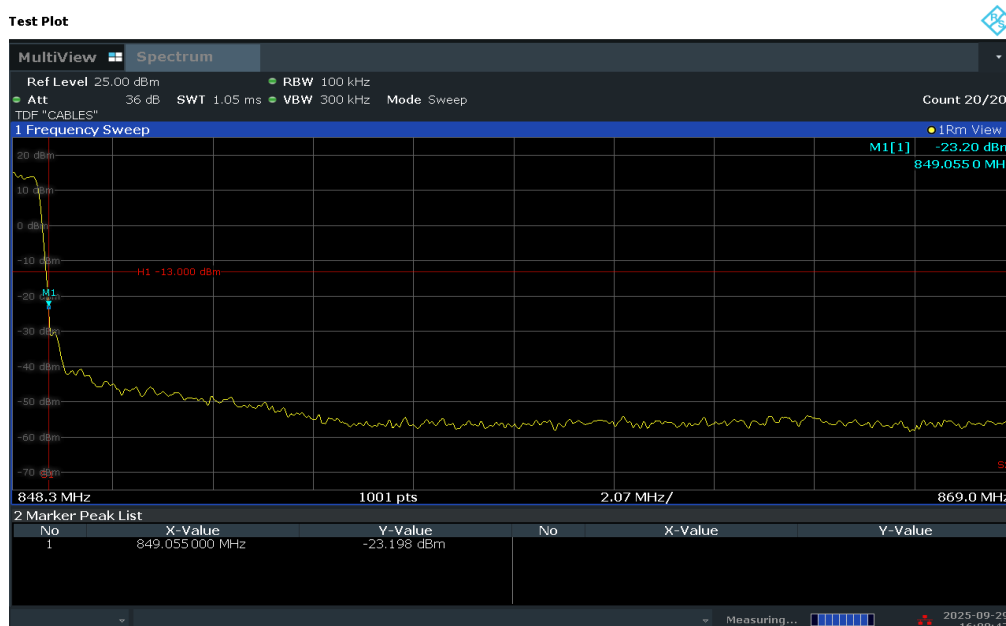
V2.2 08/24/2023

LTE Band 26



04:07:26 PM 09/29/2025

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



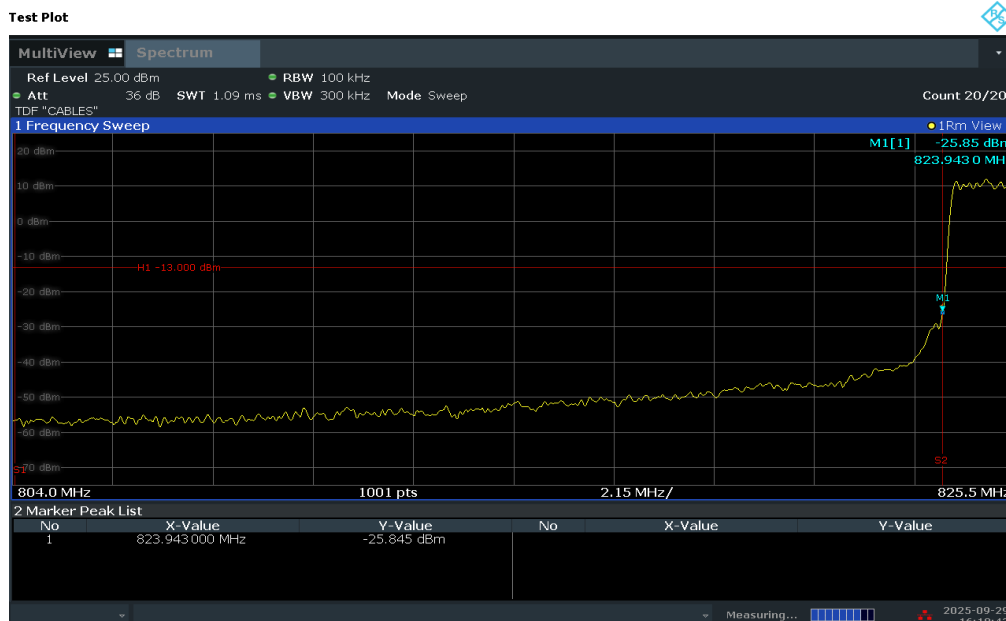
04:08:47 PM 09/29/2025

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

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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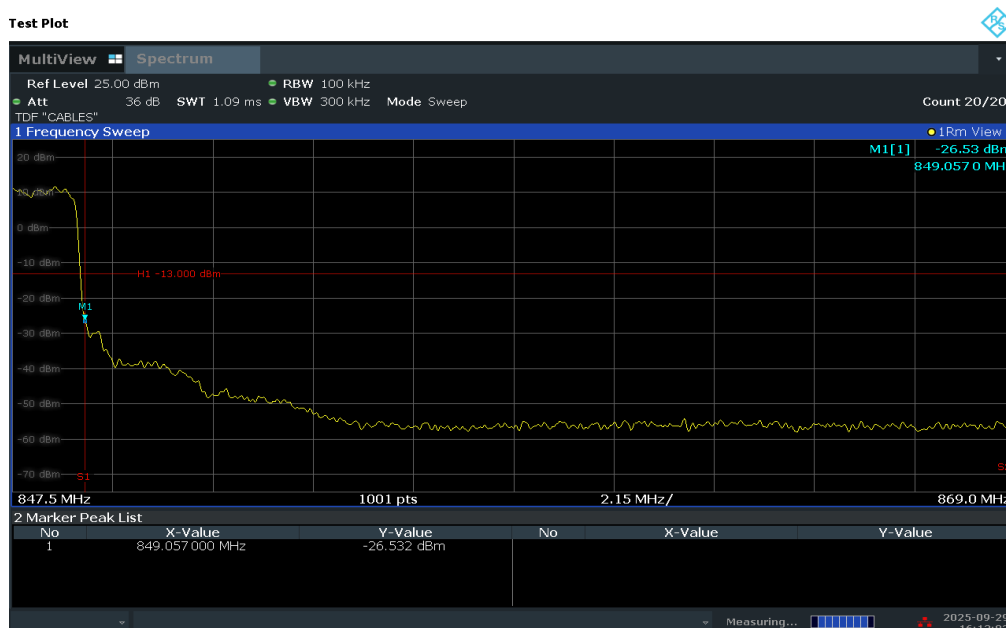
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04:10:43 PM 09/29/2025

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



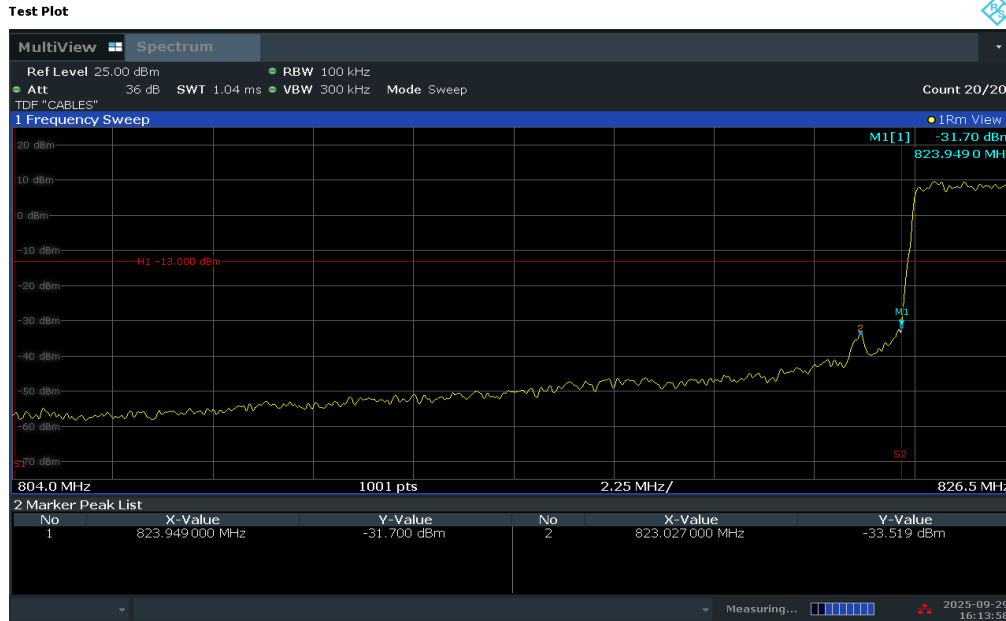
04:12:03 PM 09/29/2025

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

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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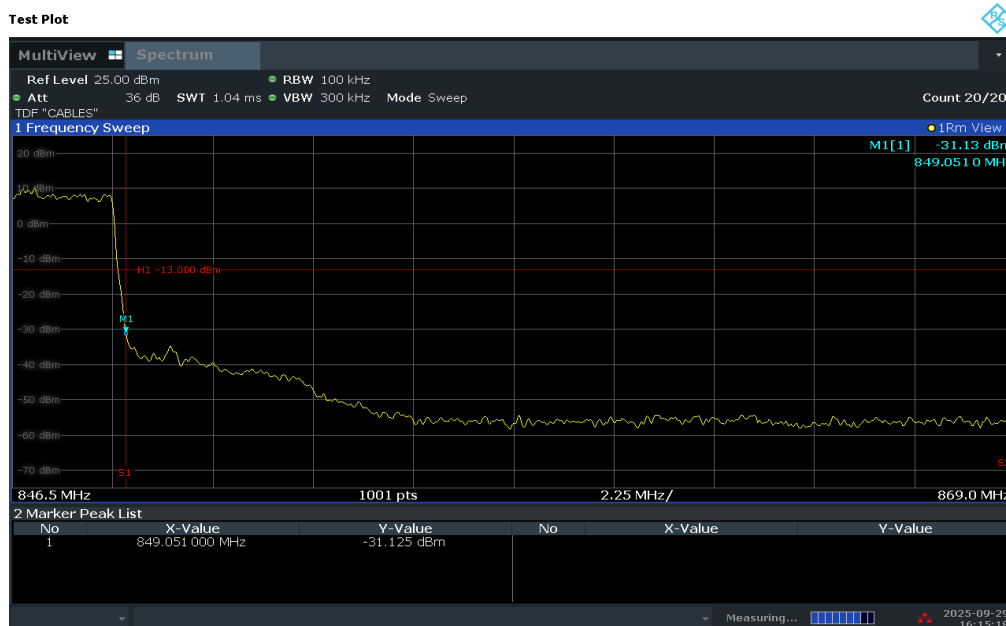
V2.2 08/24/2023

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04:13:59 PM 09/29/2025

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



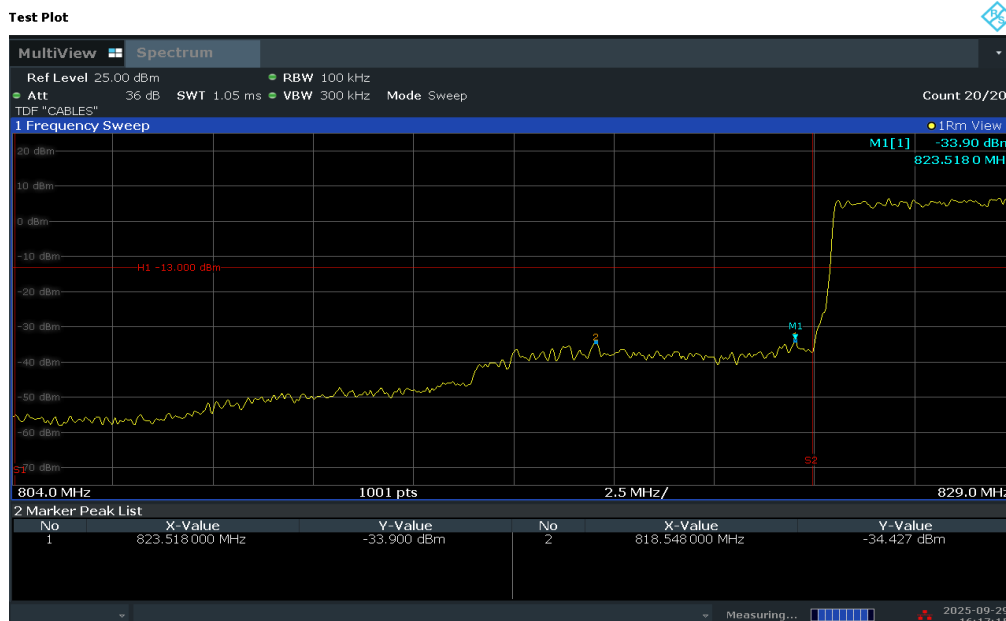
04:15:19 PM 09/29/2025

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

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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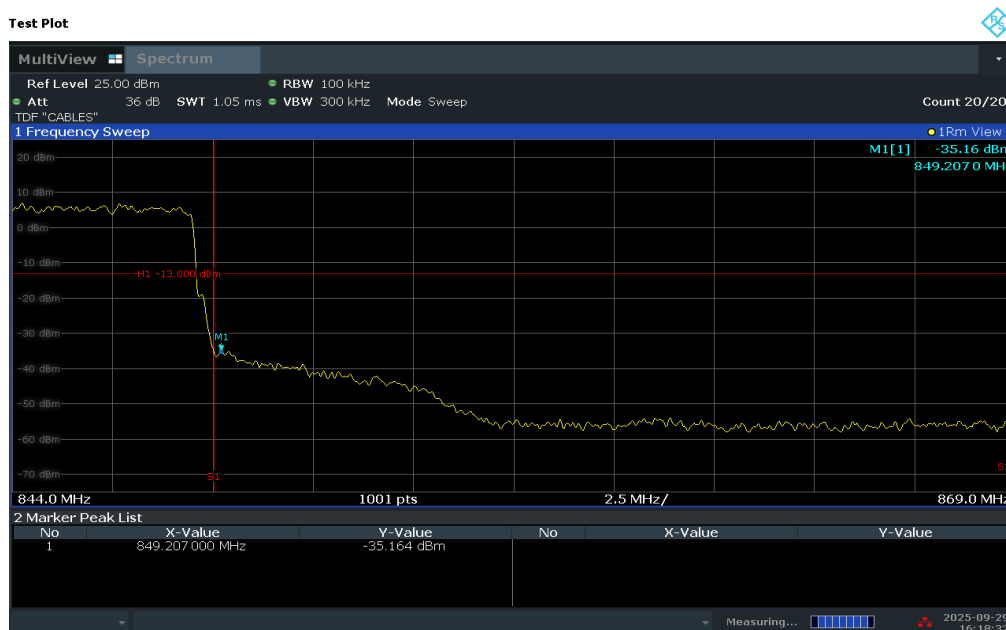
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04:17:15 PM 09/29/2025

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



04:18:33 PM 09/29/2025

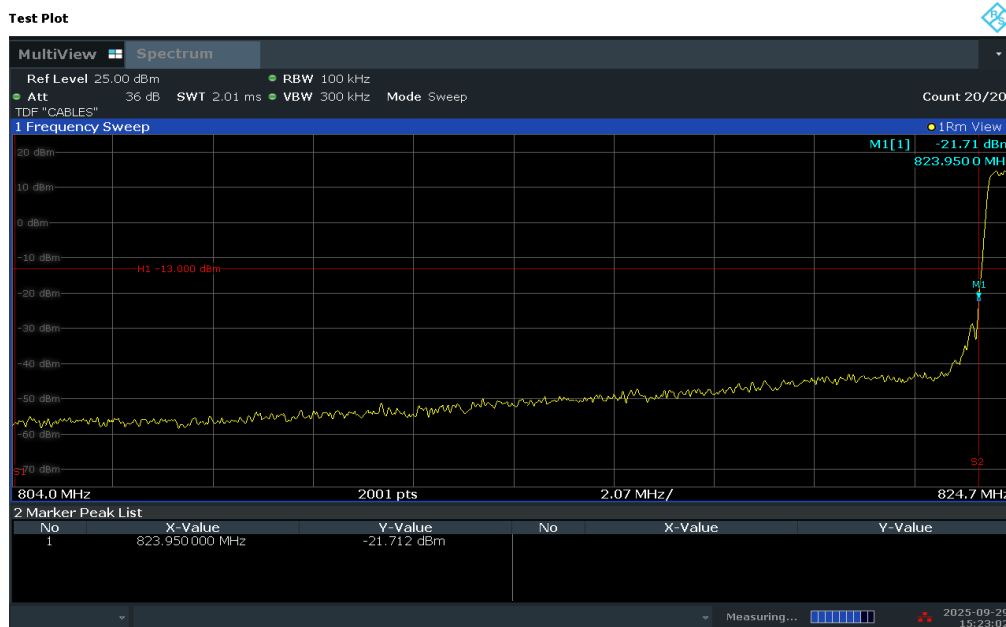
Plot 7-85. Upper BE Plot (LTE Band 26 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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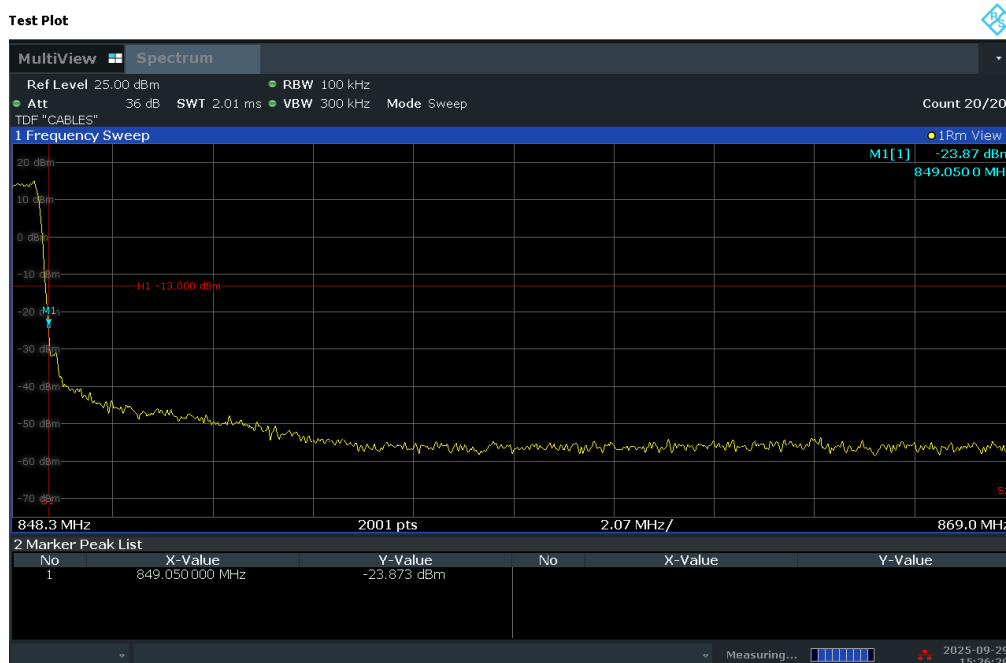
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LTE Band 5



03:23:02 PM 09/29/2025

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



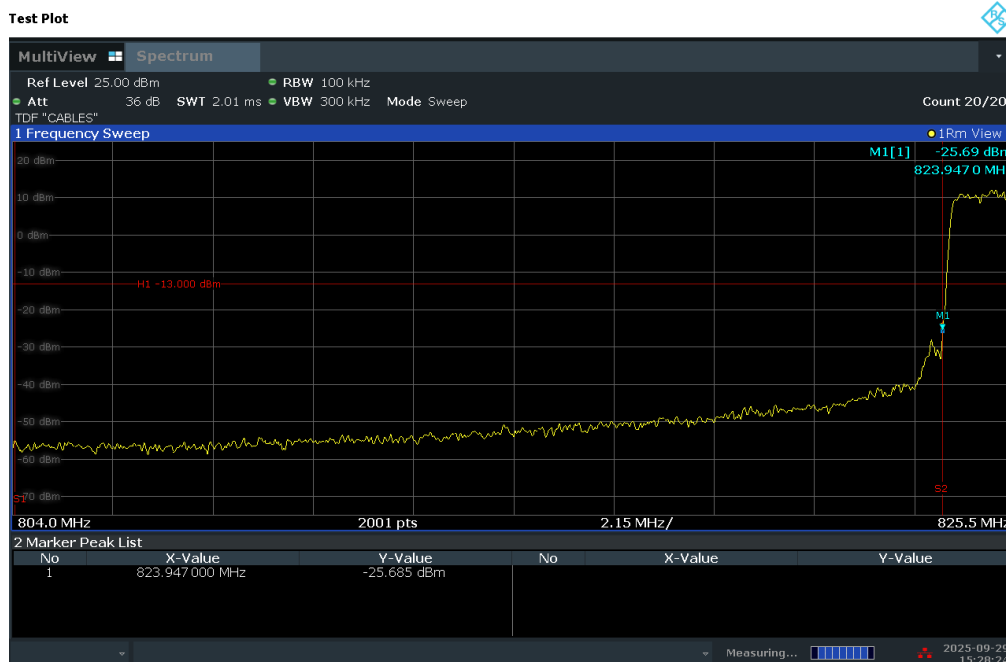
03:26:29 PM 09/29/2025

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

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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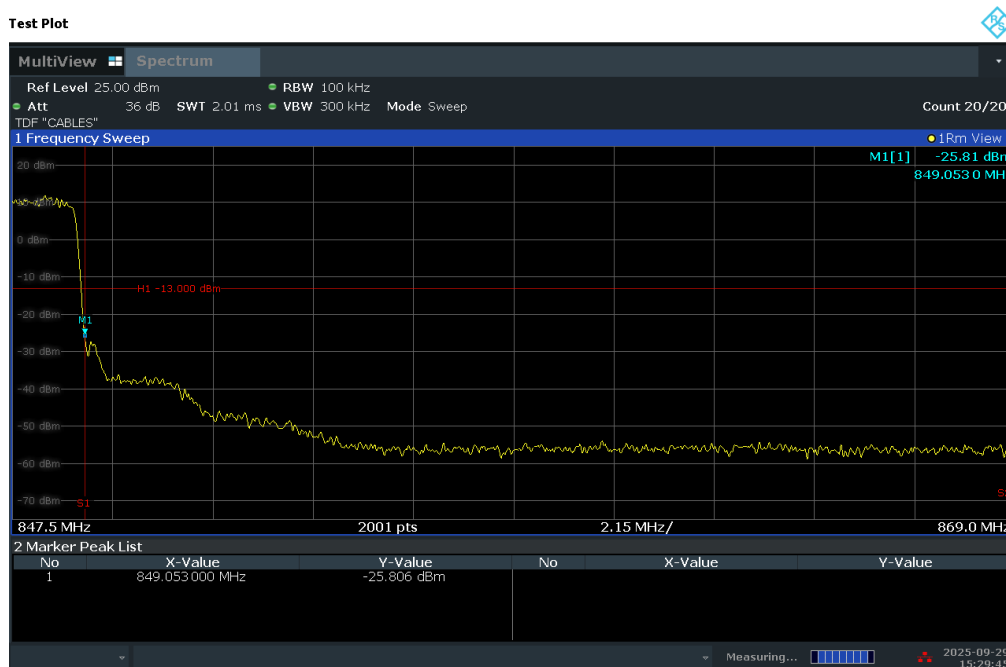
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03:28:24 PM 09/29/2025

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



03:29:45 PM 09/29/2025

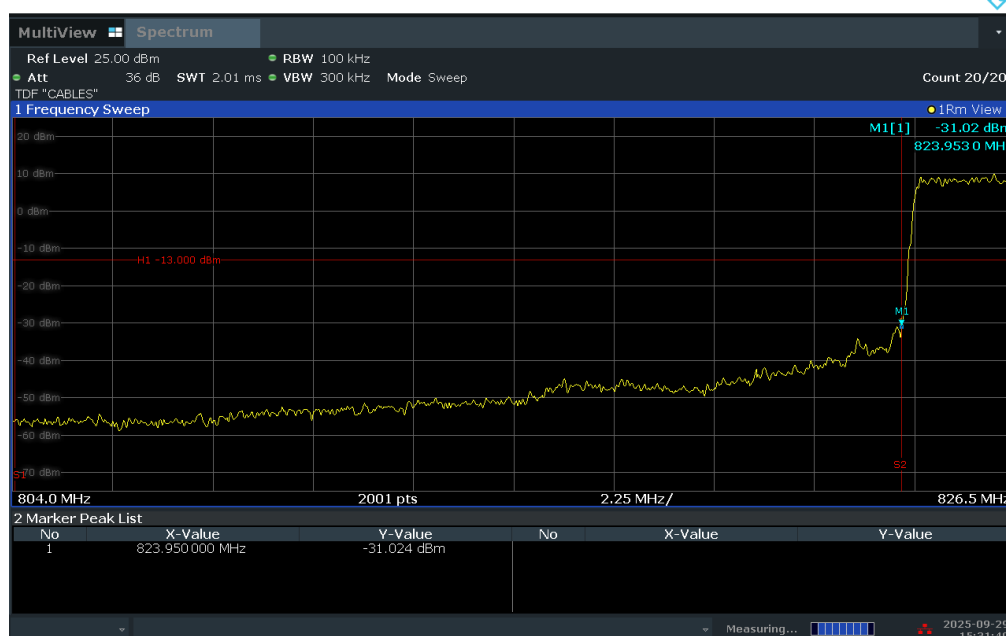
Plot 7-89. Upper BE Plot (LTE Band 5 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-07-R3.BCG	Test Dates: 07/01/2025 - 10/23/2025	EUT Type: Tablet Device	Page 66 of 113

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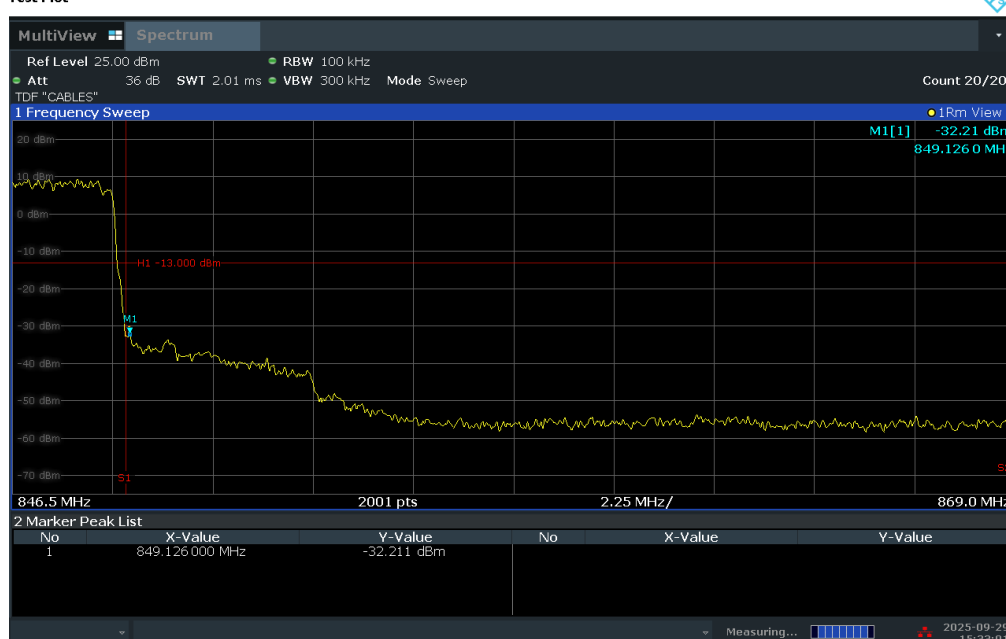
Test Plot



03:31:41 PM 09/29/2025

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

Test Plot



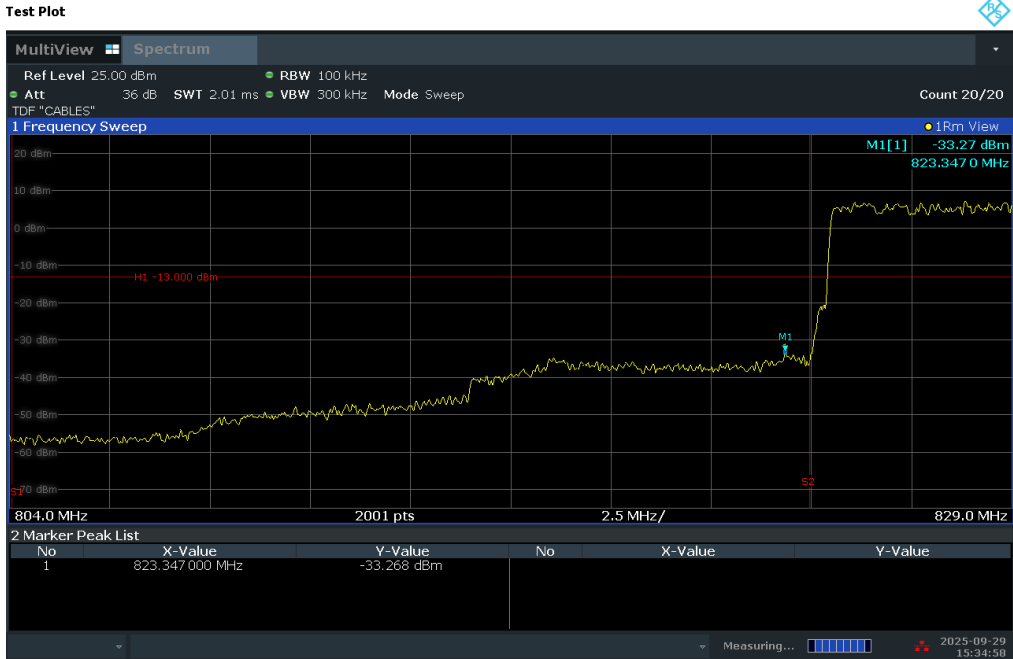
03:33:02 PM 09/29/2025

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

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-07-R3.BCG	Test Dates: 07/01/2025 - 10/23/2025	EUT Type: Tablet Device	Page 67 of 113

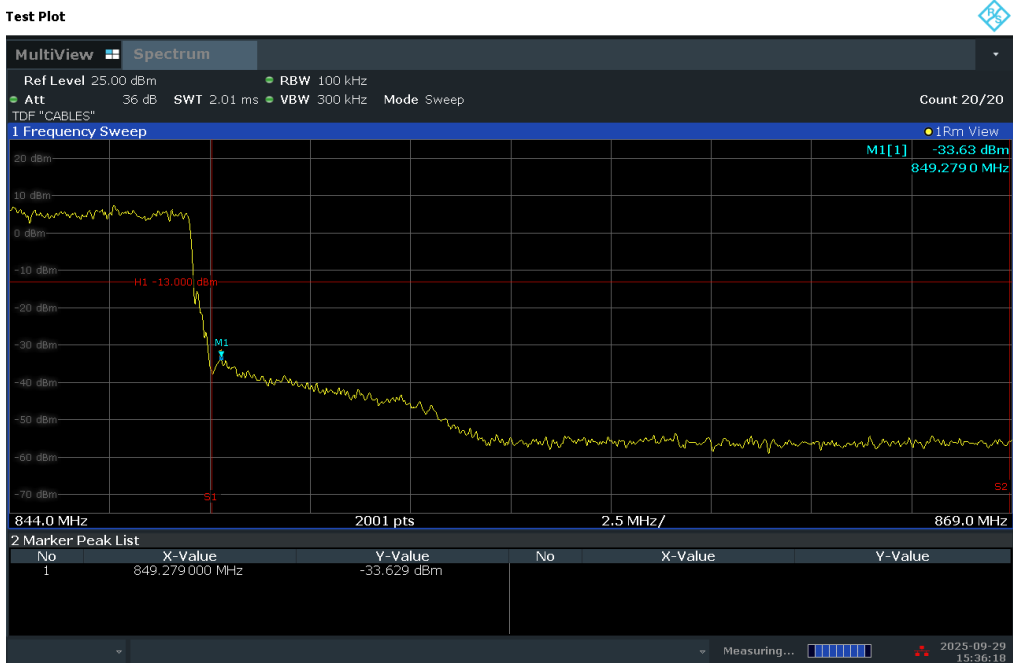
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03:34:58 PM 09/29/2025

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



03:36:19 PM 09/29/2025

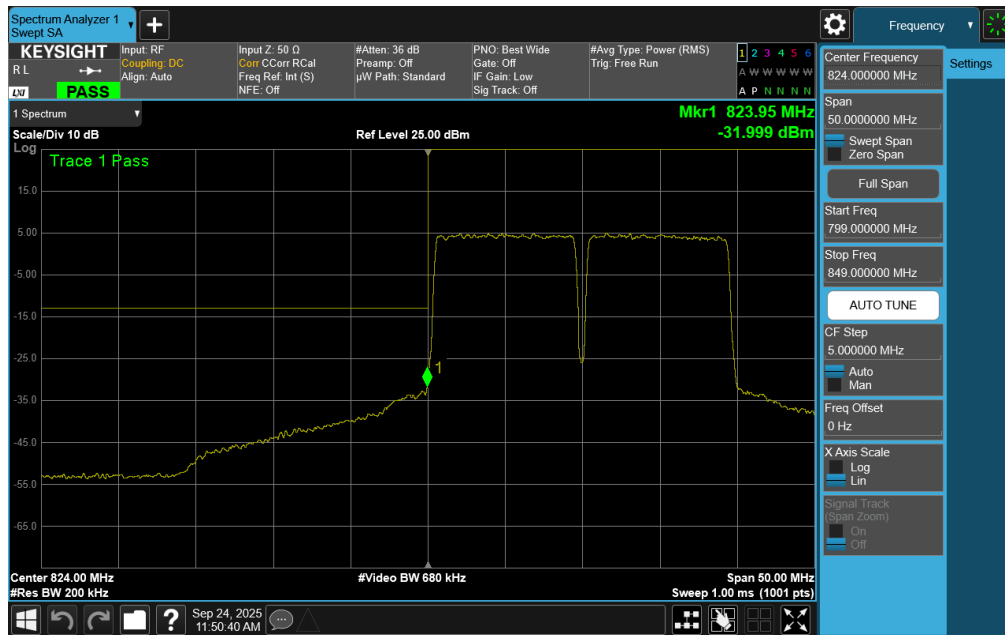
Plot 7-93. Upper BE Plot (LTE Band 5 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA3460	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100080-07-R3.BCG	Test Dates: 07/01/2025 - 10/23/2025	EUT Type: Tablet Device	Page 68 of 113

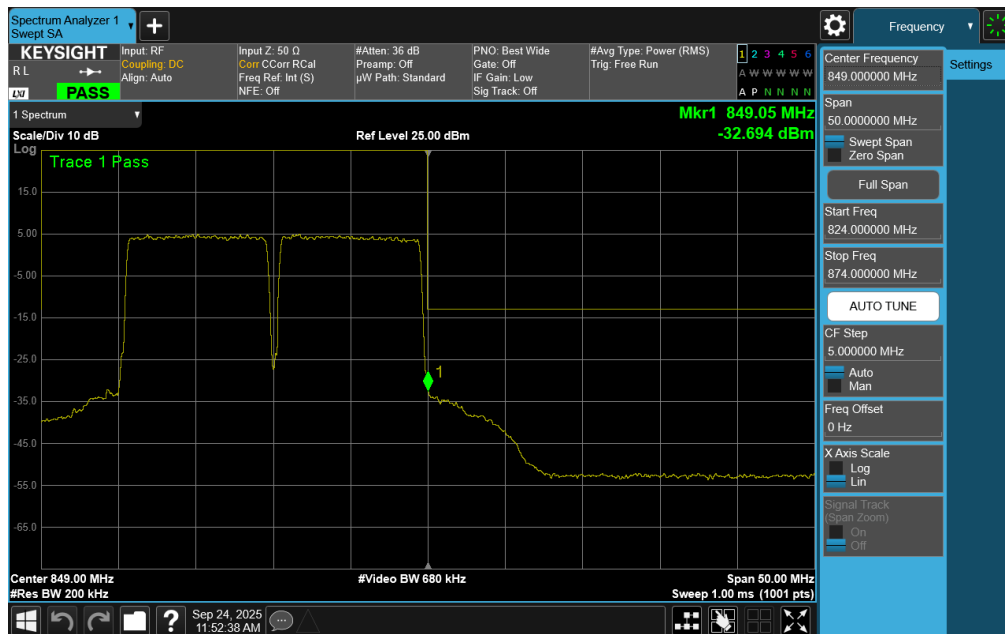
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ULCA – LTE Band 5



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



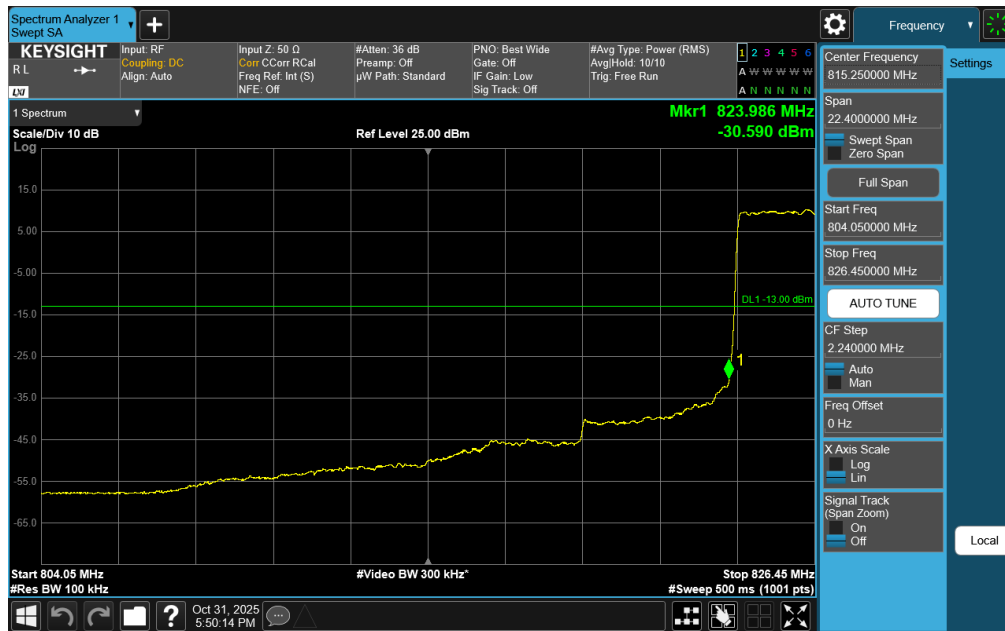
Plot 7-95. Upper BE Plot (ULCA – LTE Band 5 – (10 + 10)MHz QPSK – Full RB Configuration)

FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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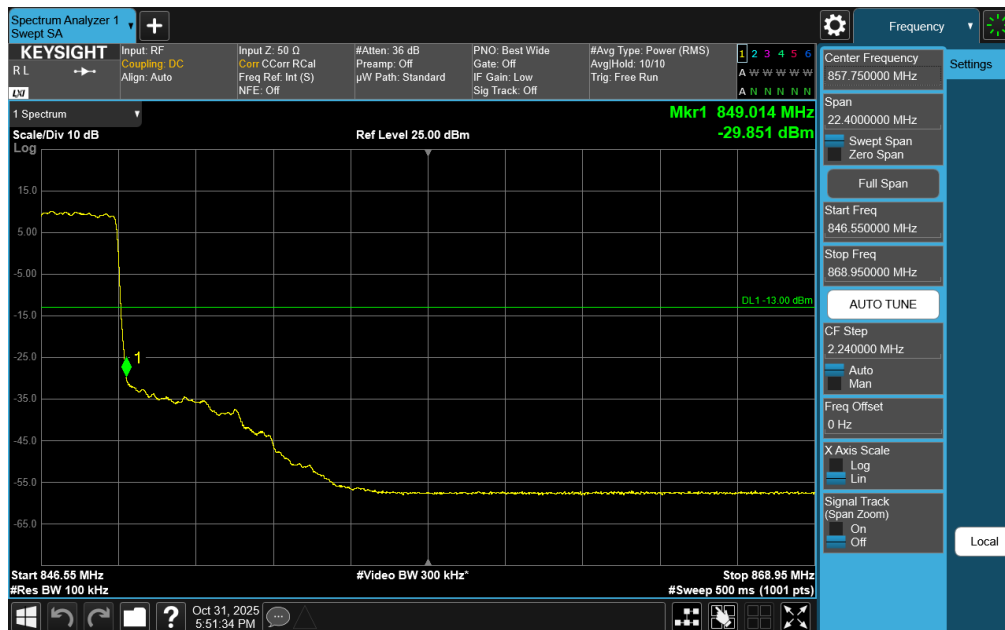
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NR Band n26



Plot 7-96. Lower BE Plot (NR Band n26 DFT-s-OFDM QPSK - 5.0MHz - Full RB)

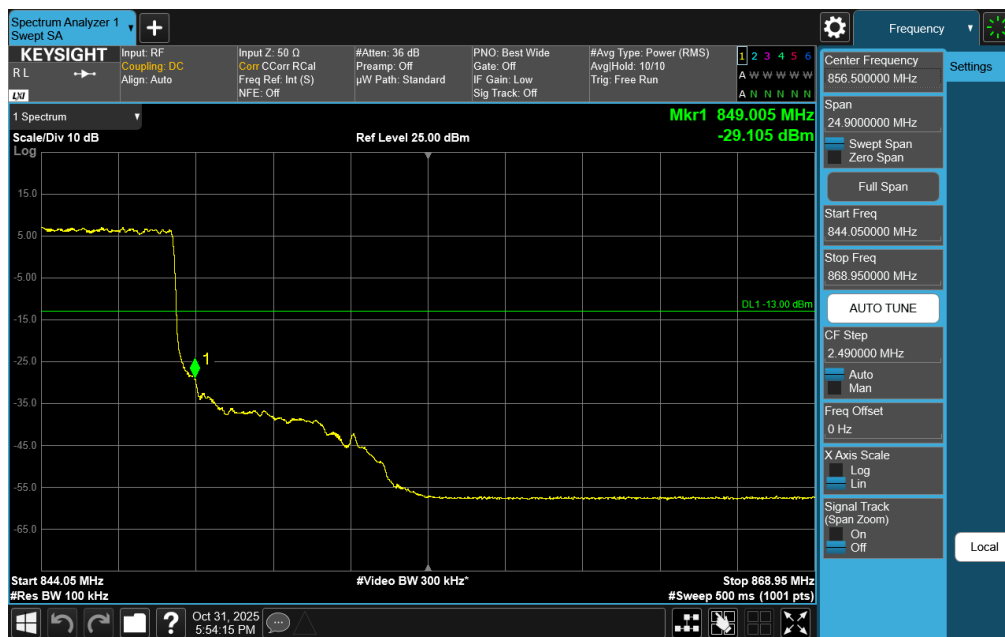
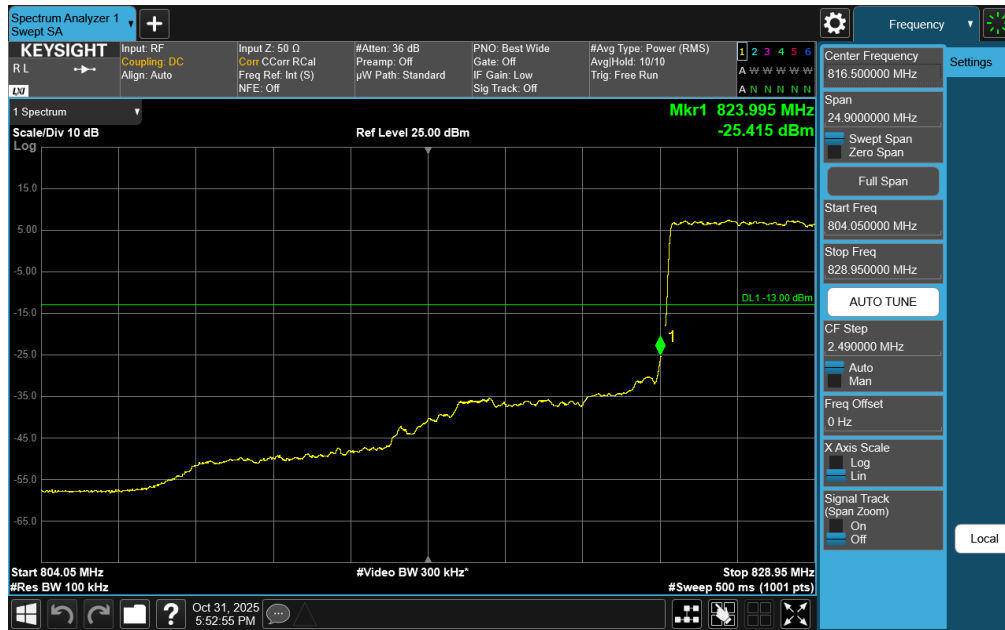


Plot 7-97. Upper BE Plot (NR Band n26 DFT-s-OFDM QPSK - 5.0MHz - Full RB)

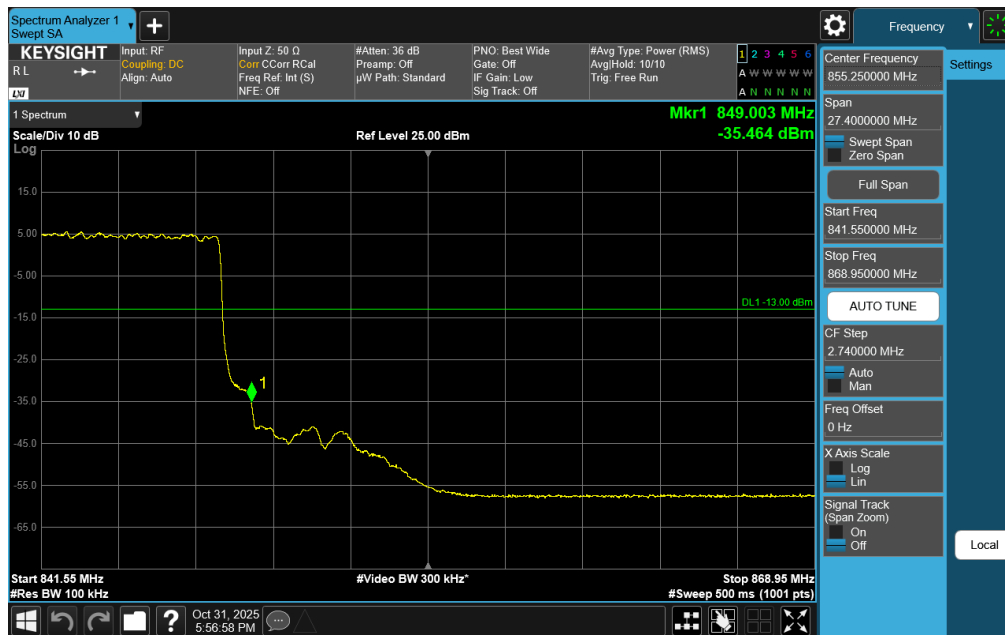
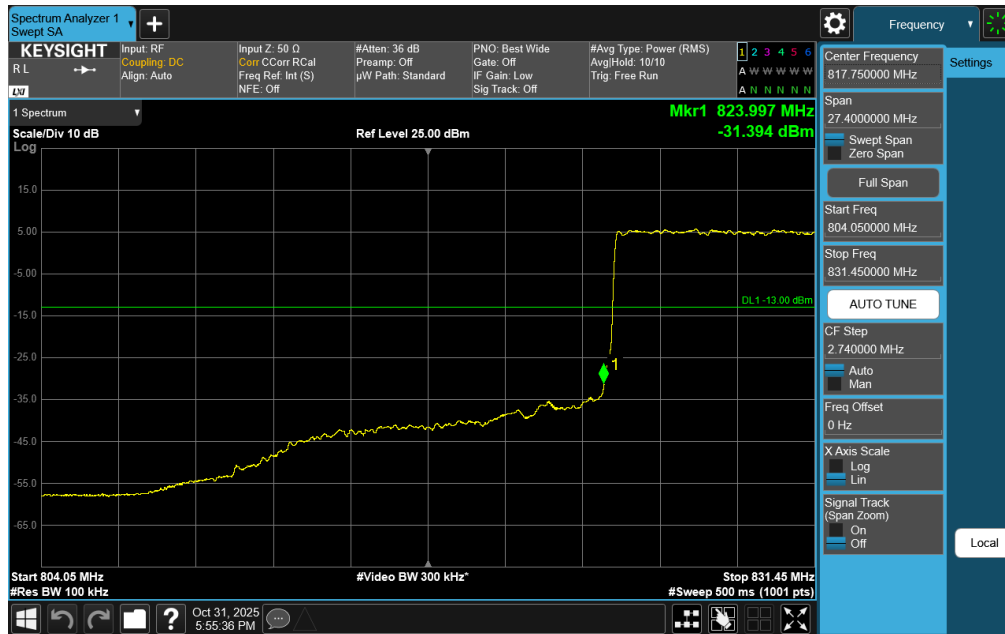
FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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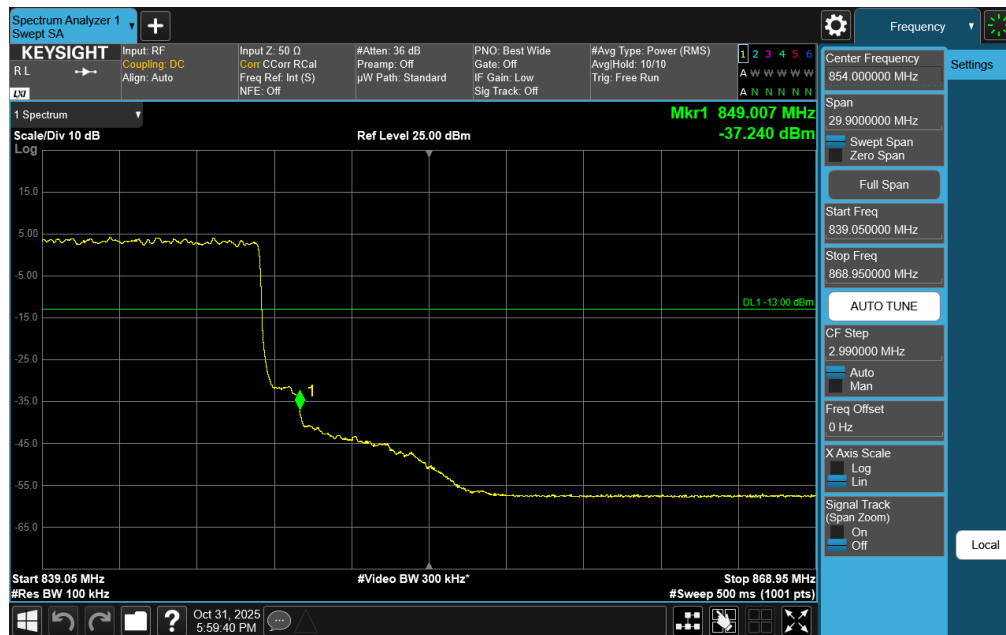
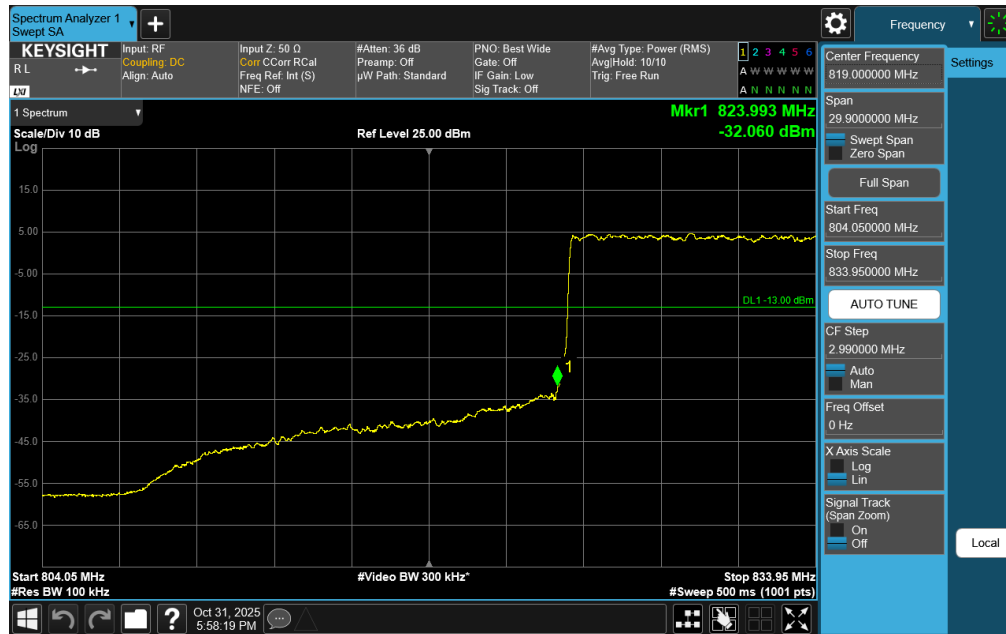
FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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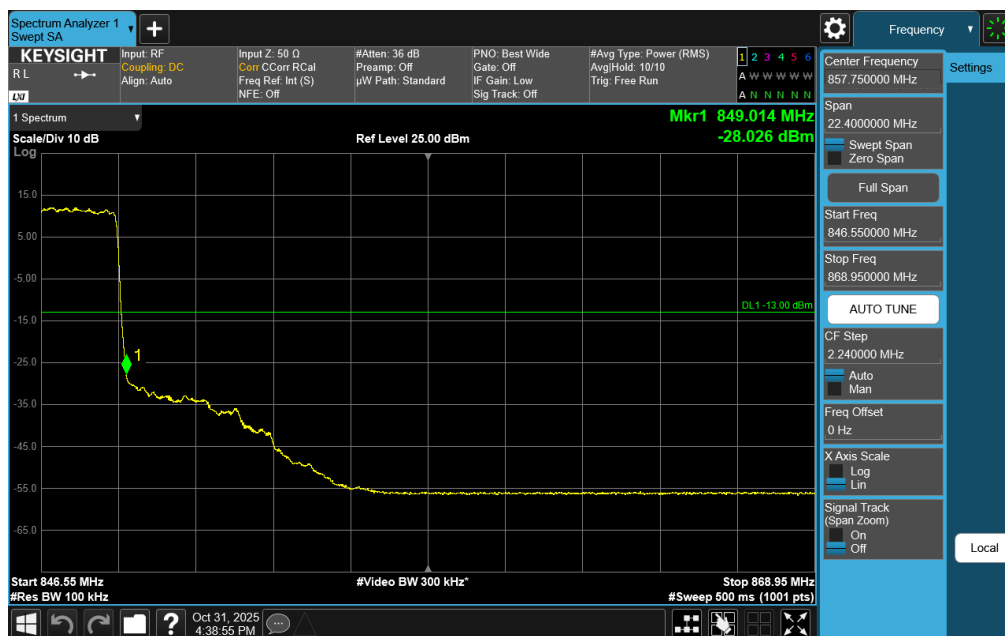
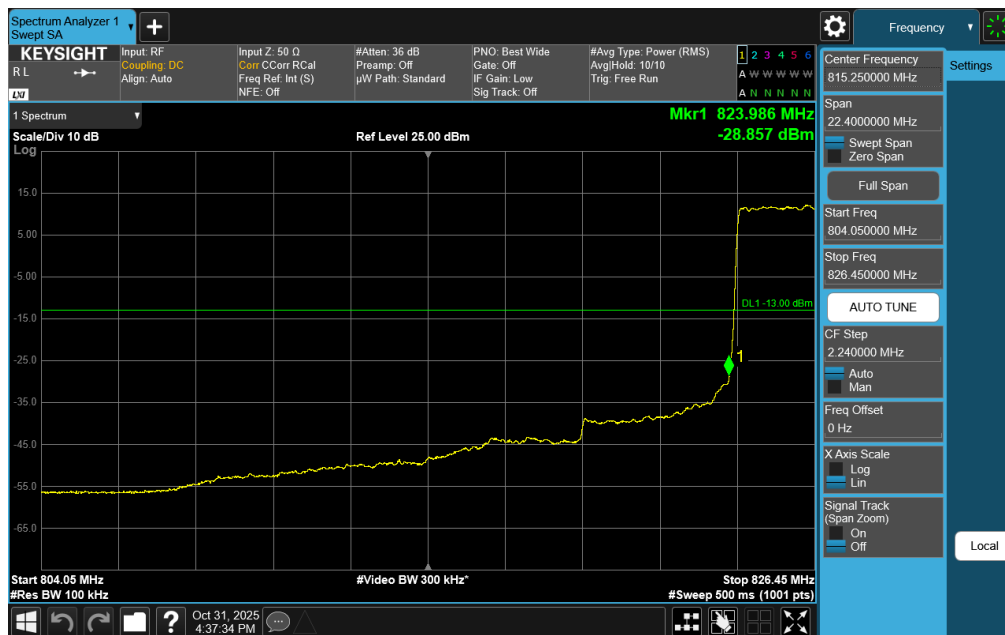
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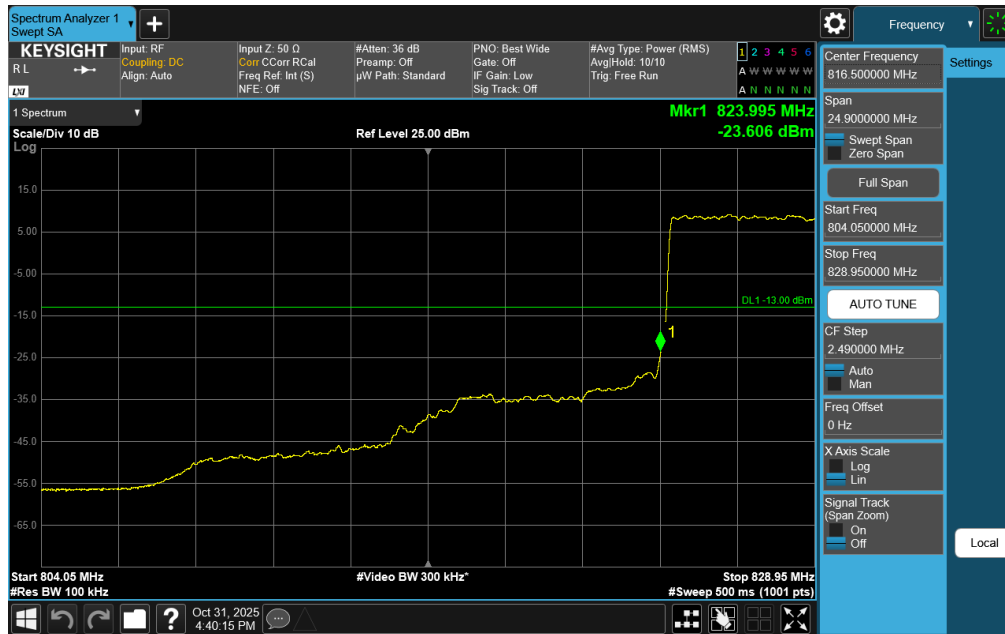
NR Band n5



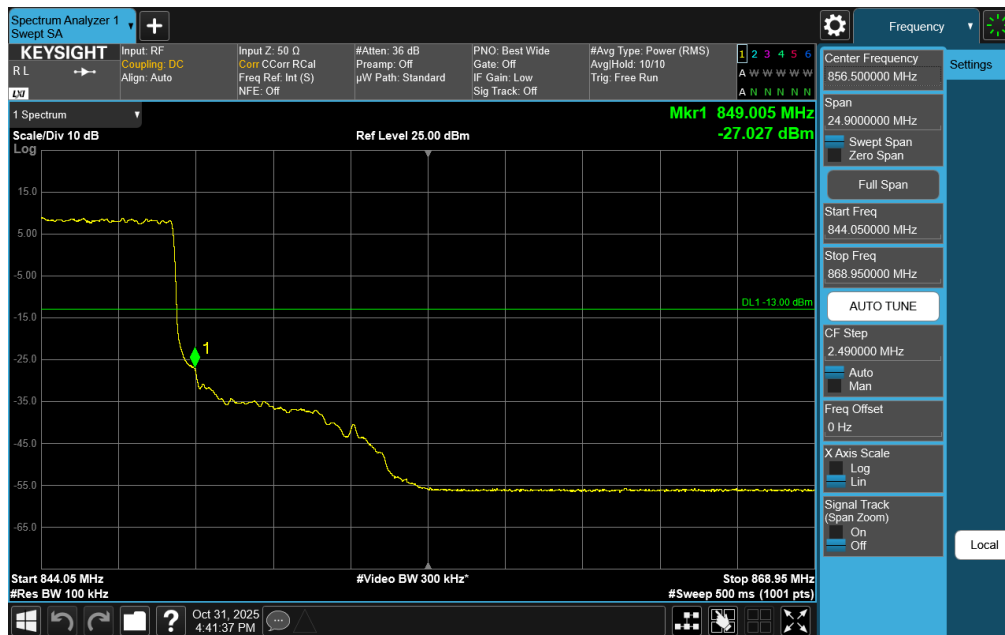
FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-106. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz – Full RB)

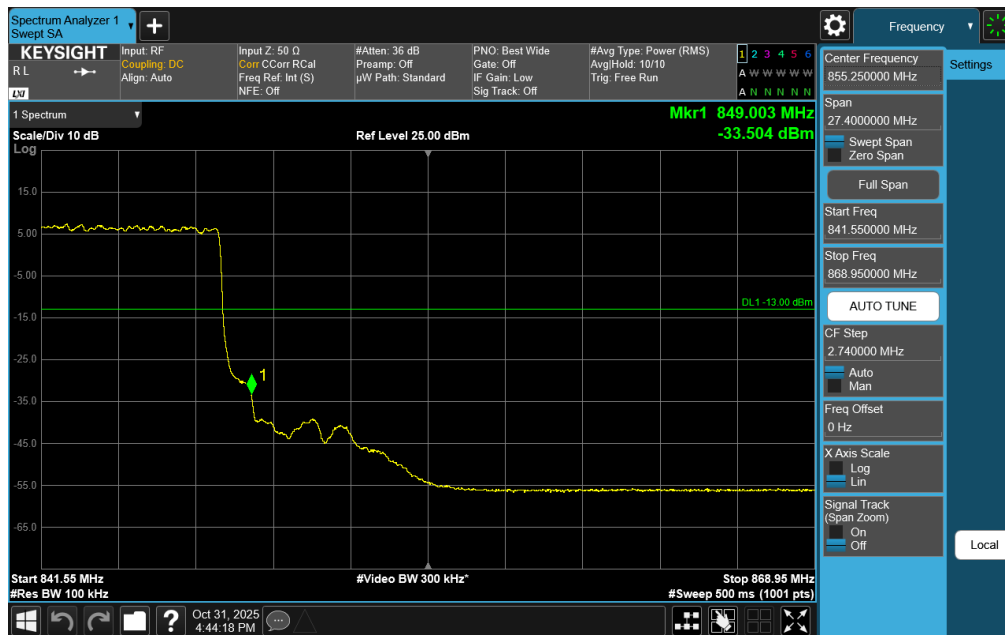
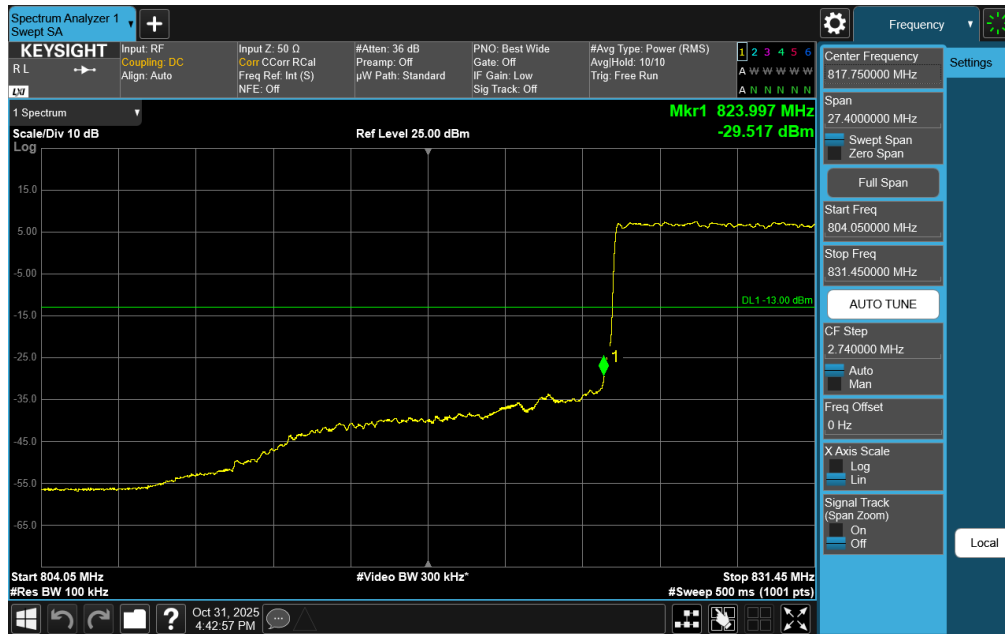


Plot 7-107. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz – Full RB)

FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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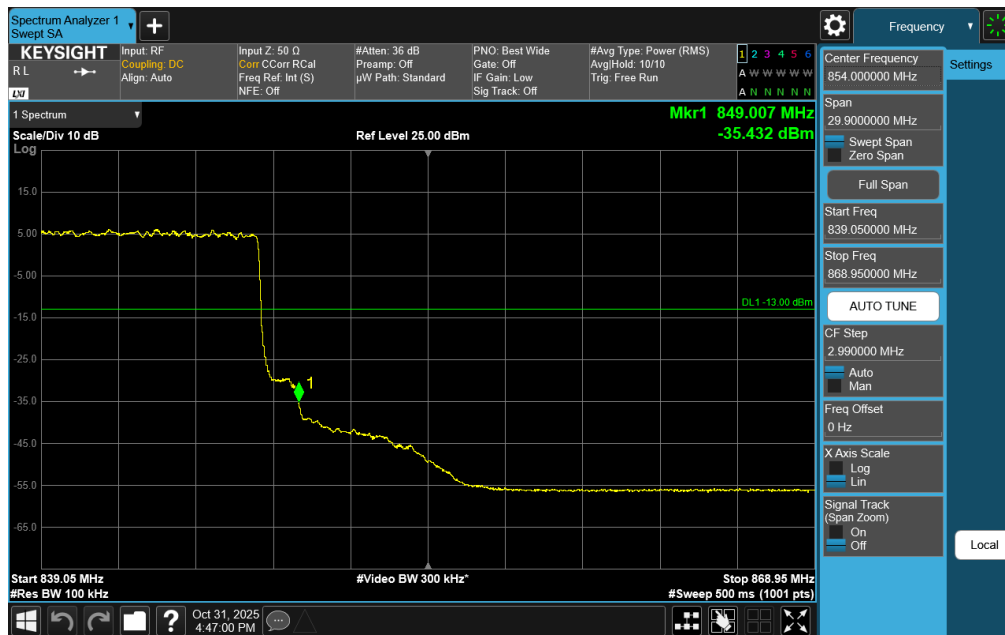
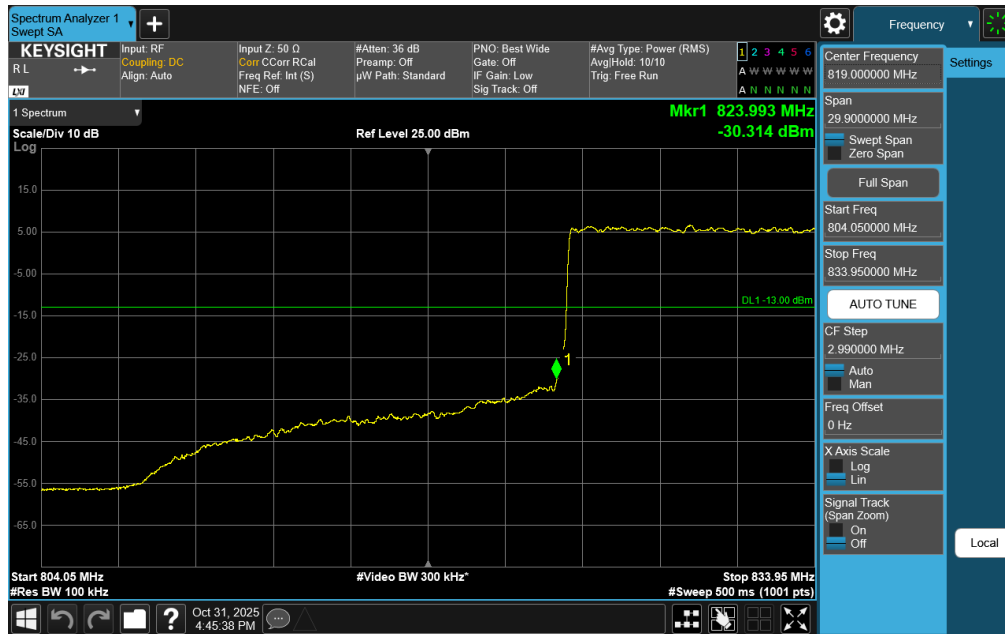
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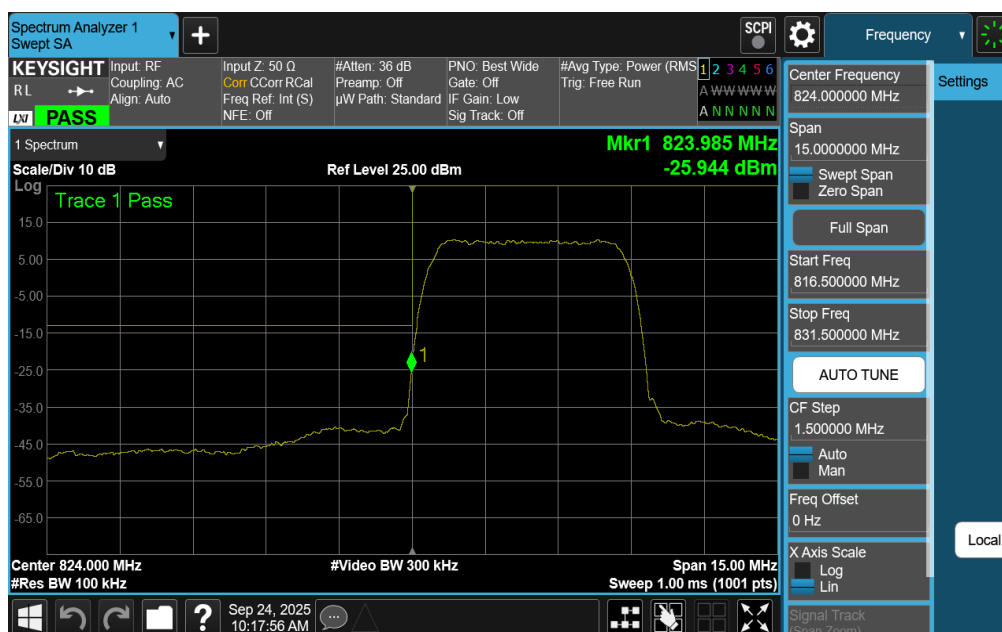
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WCDMA Cell



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



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

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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:

$$ERP = P_{meas} - LC + GT$$

Where:

ERP = Effective Radiated Power, respectively (expressed in the same units as P_{meas} , typically dBW or dBm)

P_{meas} = 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.

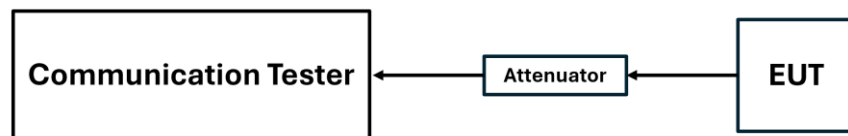


Figure 7-7. LTE Test Instrument & Measurement Setup

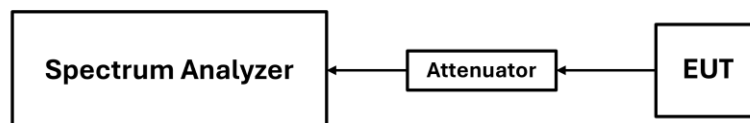


Figure 7-8. FR1 Test Instrument & Measurement Setup

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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.
7. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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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	-2.60	1 / 3	25.10	20.35	0.108	38.45	-18.10
		836.5	-2.60	1 / 3	24.96	20.21	0.105	38.45	-18.24
		848.3	-2.60	1 / 3	25.06	20.31	0.107	38.45	-18.14
	16-QAM	836.5	-2.60	1 / 3	24.33	19.58	0.091	38.45	-18.87
	64-QAM	848.3	-2.60	1 / 3	23.39	18.64	0.073	38.45	-19.81
	256-QAM	848.3	-2.60	6 / 0	20.62	15.87	0.039	38.45	-22.58
3 MHz	QPSK	825.5	-2.60	1 / 7	24.93	20.18	0.104	38.45	-18.27
		836.5	-2.60	1 / 7	24.91	20.16	0.104	38.45	-18.29
		847.5	-2.60	1 / 7	25.02	20.27	0.106	38.45	-18.18
	16-QAM	836.5	-2.60	1 / 7	24.37	19.62	0.092	38.45	-18.83
	64-QAM	847.5	-2.60	1 / 7	23.31	18.56	0.072	38.45	-19.89
	256-QAM	847.5	-2.60	15 / 0	20.48	15.73	0.037	38.45	-22.72
5 MHz	QPSK	826.5	-2.60	1 / 12	25.14	20.39	0.109	38.45	-18.06
		836.5	-2.60	1 / 24	25.20	20.45	0.111	38.45	-18.00
		846.5	-2.60	1 / 24	25.00	20.25	0.106	38.45	-18.20
	16-QAM	836.5	-2.60	1 / 0	24.52	19.77	0.095	38.45	-18.68
	64-QAM	836.5	-2.60	1 / 0	23.50	18.75	0.075	38.45	-19.70
	256-QAM	846.5	-2.60	25 / 0	20.50	15.75	0.038	38.45	-22.70
10 MHz	QPSK	829.0	-2.60	1 / 25	24.98	20.23	0.105	38.45	-18.22
		836.5	-2.60	1 / 49	25.07	20.32	0.108	38.45	-18.13
		844.0	-2.60	1 / 25	25.07	20.32	0.108	38.45	-18.13
	16-QAM	844.0	-2.60	1 / 25	24.51	19.76	0.095	38.45	-18.69
	64-QAM	829.0	-2.60	1 / 25	23.39	18.64	0.073	38.45	-19.81
	256-QAM	844.0	-2.60	50 / 0	20.61	15.86	0.039	38.45	-22.59

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

FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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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	-2.60	1 / 3	25.12	20.37	0.109	38.45	-18.08
		836.5	-2.60	1 / 3	24.91	20.16	0.104	38.45	-18.29
		848.3	-2.60	1 / 3	25.16	20.41	0.110	38.45	-18.04
	16-QAM	848.3	-2.60	1 / 3	24.26	19.51	0.089	38.45	-18.94
	64-QAM	848.3	-2.60	1 / 3	23.28	18.53	0.071	38.45	-19.92
	256-QAM	848.3	-2.60	6 / 0	20.56	15.81	0.038	38.45	-22.64
3 MHz	QPSK	825.5	-2.60	1 / 7	24.94	20.19	0.104	38.45	-18.26
		836.5	-2.60	1 / 7	24.86	20.11	0.103	38.45	-18.34
		847.5	-2.60	1 / 7	24.97	20.22	0.105	38.45	-18.23
	16-QAM	847.5	-2.60	1 / 7	24.31	19.56	0.090	38.45	-18.89
	64-QAM	847.5	-2.60	1 / 7	23.26	18.51	0.071	38.45	-19.94
	256-QAM	825.5	-2.60	15 / 0	20.48	15.73	0.037	38.45	-22.72
5 MHz	QPSK	826.5	-2.60	1 / 24	25.20	20.45	0.111	38.45	-18.00
		836.5	-2.60	1 / 24	25.14	20.39	0.109	38.45	-18.06
		846.5	-2.60	1 / 0	24.99	20.24	0.106	38.45	-18.21
	16-QAM	826.5	-2.60	1 / 12	24.47	19.72	0.094	38.45	-18.73
	64-QAM	826.5	-2.60	1 / 12	23.44	18.69	0.074	38.45	-19.76
	256-QAM	826.5	-2.60	25 / 0	20.46	15.71	0.037	38.45	-22.74
10 MHz	QPSK	829.0	-2.60	1 / 25	24.97	20.22	0.105	38.45	-18.23
		836.5	-2.60	1 / 49	24.92	20.17	0.104	38.45	-18.28
		844.0	-2.60	1 / 25	25.07	20.32	0.108	38.45	-18.13
	16-QAM	829.0	-2.60	1 / 25	24.50	19.75	0.094	38.45	-18.70
	64-QAM	829.0	-2.60	1 / 25	23.29	18.54	0.071	38.45	-19.91
	256-QAM	844.0	-2.60	50 / 0	20.54	15.79	0.038	38.45	-22.66

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

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCATx. 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	25.23	-2.60	20.48	0.112	38.45	-17.97
				20475	831.5	1	49		20574	841.4	1	0	25.15	-2.60	20.40	0.110	38.45	-18.05
				20600	844.0	1	0		20601	834.1	1	49	25.33	-2.60	20.58	0.114	38.45	-17.87
			QPSK	20600	844	50	0	QPSK	20501	834.1	50	0	24.57	-2.60	19.82	0.096	38.45	-18.63
			16-QAM	20600	844	50	0	16-QAM	20501	834.1	50	0	23.81	-2.60	19.06	0.081	38.45	-19.39
			64-QAM	20600	844	50	0	64-QAM	20501	834.1	50	0	22.84	-2.60	18.09	0.064	38.45	-20.36
			256-QAM	20600	844	50	0	256-QAM	20501	834.1	50	0	20.81	-2.60	16.06	0.040	38.45	-22.39

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

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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	-2.60	25 / 0	24.95	20.20	0.105	38.45	-18.25
		836.5	-2.60	25 / 0	25.03	20.28	0.107	38.45	-18.17
		846.5	-2.60	25 / 0	25.05	20.30	0.107	38.45	-18.15
	QPSK	826.5	-2.60	1 / 23	25.12	20.37	0.109	38.45	-18.08
		836.5	-2.60	1 / 12	25.08	20.33	0.108	38.45	-18.12
		846.5	-2.60	1 / 12	25.06	20.31	0.107	38.45	-18.14
	16-QAM	846.5	-2.60	1 / 23	24.02	19.27	0.085	38.45	-19.18
	64-QAM	836.5	-2.60	25 / 0	23.16	18.41	0.069	38.45	-20.04
	256-QAM	846.5	-2.60	25 / 0	21.15	16.40	0.044	38.45	-22.05
10 MHz	$\pi/2$ BPSK	829.0	-2.60	50 / 0	25.02	20.27	0.106	38.45	-18.18
		836.5	-2.60	50 / 0	25.17	20.42	0.110	38.45	-18.03
		844.0	-2.60	50 / 0	25.13	20.38	0.109	38.45	-18.07
	QPSK	829.0	-2.60	1 / 25	24.98	20.23	0.105	38.45	-18.22
		836.5	-2.60	1 / 1	25.10	20.35	0.108	38.45	-18.10
		844.0	-2.60	1 / 50	25.20	20.45	0.111	38.45	-18.00
	16-QAM	829.0	-2.60	1 / 1	23.90	19.15	0.082	38.45	-19.30
	64-QAM	836.5	-2.60	50 / 0	23.12	18.37	0.069	38.45	-20.08
	256-QAM	844.0	-2.60	50 / 0	21.23	16.48	0.044	38.45	-21.97
15 MHz	$\pi/2$ BPSK	831.5	-2.60	75 / 0	24.95	20.20	0.105	38.45	-18.25
		836.5	-2.60	75 / 0	25.04	20.29	0.107	38.45	-18.16
		841.5	-2.60	75 / 0	25.03	20.28	0.107	38.45	-18.17
	QPSK	831.5	-2.60	1 / 36	24.96	20.21	0.105	38.45	-18.24
		836.5	-2.60	1 / 77	25.00	20.25	0.106	38.45	-18.20
		841.5	-2.60	1 / 77	25.01	20.26	0.106	38.45	-18.19
	16-QAM	841.5	-2.60	1 / 77	23.86	19.11	0.081	38.45	-19.34
	64-QAM	836.5	-2.60	75 / 0	23.11	18.36	0.069	38.45	-20.09
	256-QAM	836.5	-2.60	75 / 0	21.03	16.28	0.042	38.45	-22.17
20 MHz	$\pi/2$ BPSK	834.0	-2.60	100 / 0	24.92	20.17	0.104	38.45	-18.28
		836.5	-2.60	100 / 0	25.06	20.31	0.107	38.45	-18.14
		839.0	-2.60	100 / 0	25.06	20.31	0.107	38.45	-18.14
	QPSK	834.0	-2.60	1 / 104	24.98	20.23	0.105	38.45	-18.22
		836.5	-2.60	1 / 50	24.99	20.24	0.106	38.45	-18.21
		839.0	-2.60	1 / 104	25.16	20.41	0.110	38.45	-18.04
	16-QAM	839.0	-2.60	1 / 1	23.87	19.12	0.082	38.45	-19.33
	64-QAM	836.5	-2.60	100 / 0	23.09	18.34	0.068	38.45	-20.11
	256-QAM	839.0	-2.60	100 / 0	21.09	16.34	0.043	38.45	-22.11

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

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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	$\pi/2$ BPSK	826.5	-2.60	25 / 0	25.37	20.62	0.115	38.45	-17.83
		836.5	-2.60	1 / 1	25.18	20.43	0.110	38.45	-18.02
		846.5	-2.60	25 / 0	25.24	20.49	0.112	38.45	-17.96
	QPSK	826.5	-2.60	1 / 12	25.29	20.54	0.113	38.45	-17.91
		836.5	-2.60	1 / 1	25.24	20.49	0.112	38.45	-17.96
		846.5	-2.60	1 / 1	25.21	20.46	0.111	38.45	-17.99
	16-QAM	846.5	-2.60	1 / 12	24.23	19.48	0.089	38.45	-18.97
	64-QAM	846.5	-2.60	25 / 0	23.33	18.58	0.072	38.45	-19.87
	256-QAM	826.5	-2.60	25 / 0	21.31	16.56	0.045	38.45	-21.89
10 MHz	$\pi/2$ BPSK	829.0	-2.60	50 / 0	25.23	20.48	0.112	38.45	-17.97
		836.5	-2.60	50 / 0	25.23	20.48	0.112	38.45	-17.97
		844.0	-2.60	50 / 0	25.31	20.56	0.114	38.45	-17.89
	QPSK	829.0	-2.60	1 / 1	25.18	20.43	0.110	38.45	-18.02
		836.5	-2.60	1 / 50	25.29	20.54	0.113	38.45	-17.91
		844.0	-2.60	1 / 25	25.45	20.70	0.117	38.45	-17.75
	16-QAM	829.0	-2.60	1 / 1	24.19	19.44	0.088	38.45	-19.01
	64-QAM	844.0	-2.60	50 / 0	23.30	18.55	0.072	38.45	-19.90
	256-QAM	844.0	-2.60	50 / 0	21.33	16.58	0.046	38.45	-21.87
15 MHz	$\pi/2$ BPSK	831.5	-2.60	75 / 0	25.13	20.38	0.109	38.45	-18.07
		836.5	-2.60	1 / 77	25.20	20.45	0.111	38.45	-18.00
		841.5	-2.60	75 / 0	25.17	20.42	0.110	38.45	-18.03
	QPSK	831.5	-2.60	1 / 1	25.12	20.37	0.109	38.45	-18.08
		836.5	-2.60	1 / 77	25.14	20.39	0.109	38.45	-18.07
		841.5	-2.60	1 / 36	25.18	20.43	0.110	38.45	-18.02
	16-QAM	836.5	-2.60	1 / 77	23.99	19.24	0.084	38.45	-19.21
	64-QAM	841.5	-2.60	75 / 0	23.20	18.45	0.070	38.45	-20.00
	256-QAM	831.5	-2.60	75 / 0	21.14	16.39	0.044	38.45	-22.06
20 MHz	$\pi/2$ BPSK	834.0	-2.60	100 / 0	25.17	20.42	0.110	38.45	-18.03
		836.5	-2.60	1 / 104	25.33	20.58	0.114	38.45	-17.87
		839.0	-2.60	100 / 0	25.22	20.47	0.111	38.45	-17.98
	QPSK	834.0	-2.60	1 / 104	25.12	20.37	0.109	38.45	-18.08
		836.5	-2.60	1 / 104	25.15	20.40	0.110	38.45	-18.05
		839.0	-2.60	1 / 1	25.26	20.51	0.112	38.45	-17.94
	16-QAM	834.0	-2.60	1 / 104	24.10	19.35	0.086	38.45	-19.10
	64-QAM	839.0	-2.60	100 / 0	23.19	18.44	0.070	38.45	-20.01
	256-QAM	839.0	-2.60	100 / 0	21.21	16.46	0.044	38.45	-21.99

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

FCC ID: BCGA3460		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	25.34	-2.60	20.59	0.115	38.45	-17.86
836.60	WCDMA850	25.27	-2.60	20.52	0.113	38.45	-17.93
846.60	WCDMA850	25.42	-2.60	20.67	0.117	38.45	-17.78

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

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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7.5.2 Antenna 3b – 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	-0.60	1 / 3	25.06	22.31	0.170	38.45	-16.14
		836.5	-0.60	1 / 3	24.87	22.12	0.163	38.45	-16.33
		848.3	-0.60	1 / 3	25.20	22.45	0.176	38.45	-16.00
	16-QAM	848.3	-0.60	1 / 3	24.39	21.64	0.146	38.45	-16.81
	64-QAM	848.3	-0.60	1 / 3	23.37	20.62	0.115	38.45	-17.83
	256-QAM	848.3	-0.60	6 / 0	20.57	17.82	0.061	38.45	-20.63
3 MHz	QPSK	825.5	-0.60	1 / 7	24.92	22.17	0.165	38.45	-16.28
		836.5	-0.60	1 / 7	24.97	22.22	0.167	38.45	-16.23
		847.5	-0.60	1 / 7	24.98	22.23	0.167	38.45	-16.22
	16-QAM	847.5	-0.60	1 / 7	24.46	21.71	0.148	38.45	-16.74
	64-QAM	825.5	-0.60	1 / 7	23.37	20.62	0.115	38.45	-17.83
	256-QAM	847.5	-0.60	15 / 0	20.59	17.84	0.061	38.45	-20.61
5 MHz	QPSK	826.5	-0.60	1 / 24	25.20	22.45	0.176	38.45	-16.00
		836.5	-0.60	1 / 24	25.16	22.41	0.174	38.45	-16.04
		846.5	-0.60	1 / 12	25.02	22.27	0.169	38.45	-16.18
	16-QAM	826.5	-0.60	1 / 24	24.51	21.76	0.150	38.45	-16.69
	64-QAM	836.5	-0.60	1 / 0	23.54	20.79	0.120	38.45	-17.66
	256-QAM	846.5	-0.60	25 / 0	20.56	17.81	0.060	38.45	-20.64
10 MHz	QPSK	829.0	-0.60	1 / 25	24.97	22.22	0.167	38.45	-16.23
		836.5	-0.60	1 / 0	25.00	22.25	0.168	38.45	-16.20
		844.0	-0.60	1 / 25	25.03	22.28	0.169	38.45	-16.17
	16-QAM	844.0	-0.60	1 / 25	24.43	21.68	0.147	38.45	-16.77
	64-QAM	829.0	-0.60	1 / 49	23.39	20.64	0.116	38.45	-17.81
	256-QAM	844.0	-0.60	50 / 0	20.58	17.83	0.061	38.45	-20.62

Table 7-8. Antenna 3b ERP Data (LTE Band 26)

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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	-0.60	1 / 3	24.87	22.12	0.163	38.45	-16.33
		836.5	-0.60	1 / 3	24.79	22.04	0.160	38.45	-16.41
		848.3	-0.60	1 / 3	25.14	22.39	0.173	38.45	-16.06
	16-QAM	848.3	-0.60	1 / 3	24.16	21.41	0.138	38.45	-17.04
	64-QAM	848.3	-0.60	1 / 3	23.17	20.42	0.110	38.45	-18.03
	256-QAM	848.3	-0.60	6 / 0	20.47	17.72	0.059	38.45	-20.73
3 MHz	QPSK	825.5	-0.60	1 / 7	24.87	22.12	0.163	38.45	-16.33
		836.5	-0.60	1 / 7	24.89	22.14	0.164	38.45	-16.31
		847.5	-0.60	1 / 7	24.92	22.17	0.165	38.45	-16.28
	16-QAM	847.5	-0.60	1 / 7	24.42	21.67	0.147	38.45	-16.78
	64-QAM	847.5	-0.60	1 / 7	23.16	20.41	0.110	38.45	-18.04
	256-QAM	825.5	-0.60	15 / 0	20.50	17.75	0.060	38.45	-20.70
5 MHz	QPSK	826.5	-0.60	1 / 24	25.20	22.45	0.176	38.45	-16.00
		836.5	-0.60	1 / 0	25.08	22.33	0.171	38.45	-16.12
		846.5	-0.60	1 / 12	24.96	22.21	0.166	38.45	-16.24
	16-QAM	826.5	-0.60	1 / 24	24.47	21.72	0.149	38.45	-16.73
	64-QAM	826.5	-0.60	1 / 24	23.43	20.68	0.117	38.45	-17.77
	256-QAM	846.5	-0.60	25 / 0	20.45	17.70	0.059	38.45	-20.75
10 MHz	QPSK	829.0	-0.60	1 / 25	24.95	22.20	0.166	38.45	-16.25
		836.5	-0.60	1 / 0	24.96	22.21	0.166	38.45	-16.24
		844.0	-0.60	1 / 25	24.95	22.20	0.166	38.45	-16.25
	16-QAM	836.5	-0.60	1 / 0	24.33	21.58	0.144	38.45	-16.87
	64-QAM	829.0	-0.60	1 / 49	23.36	20.61	0.115	38.45	-17.84
	256-QAM	829.0	-0.60	50 / 0	20.48	17.73	0.059	38.45	-20.72

Table 7-9. Antenna 3b ERP Data (LTE Band 5)

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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCATx. 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	25.11	-0.60	22.36	0.172	38.45	-16.09
				20475	831.5	1	49		20574	841.4	1	0	25.26	-0.60	22.51	0.178	38.45	-15.94
				20600	844.0	1	0		20601	834.1	1	49	25.09	-0.60	22.34	0.171	38.45	-16.11
			QPSK	20475	831.5	50	0	QPSK	20574	841.4	50	0	24.63	-0.60	21.88	0.154	38.45	-16.57
				20475	831.5	50	0		16-QAM	20574	841.4	50	0	23.58	-0.60	20.83	0.121	38.45
			64-QAM	20475	831.5	50	0	64-QAM	20574	841.4	50	0	22.57	-0.60	19.82	0.096	38.45	-18.63
			256-QAM	20475	831.5	50	0	256-QAM	20574	841.4	50	0	20.54	-0.60	17.79	0.060	38.45	-20.66

Table 7-10. Antenna 3b ERP Data (ULCA LTE Band 5)

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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	-0.60	25 / 0	24.95	22.20	0.166	38.45	-16.25
		836.5	-0.60	25 / 0	25.03	22.28	0.169	38.45	-16.17
		846.5	-0.60	25 / 0	25.05	22.30	0.170	38.45	-16.15
	QPSK	826.5	-0.60	1 / 23	25.12	22.37	0.173	38.45	-16.08
		836.5	-0.60	1 / 12	25.08	22.33	0.171	38.45	-16.12
		846.5	-0.60	1 / 12	25.06	22.31	0.170	38.45	-16.14
	16-QAM	846.5	-0.60	1 / 23	24.02	21.27	0.134	38.45	-17.18
	64-QAM	836.5	-0.60	25 / 0	23.16	20.41	0.110	38.45	-18.04
	256-QAM	846.5	-0.60	25 / 0	21.15	18.40	0.069	38.45	-20.05
10 MHz	$\pi/2$ BPSK	829.0	-0.60	50 / 0	25.02	22.27	0.169	38.45	-16.18
		836.5	-0.60	50 / 0	25.17	22.42	0.175	38.45	-16.03
		844.0	-0.60	50 / 0	25.13	22.38	0.173	38.45	-16.07
	QPSK	829.0	-0.60	1 / 25	24.98	22.23	0.167	38.45	-16.22
		836.5	-0.60	1 / 1	25.10	22.35	0.172	38.45	-16.10
		844.0	-0.60	1 / 50	25.20	22.45	0.176	38.45	-16.00
	16-QAM	829.0	-0.60	1 / 1	23.90	21.15	0.130	38.45	-17.30
	64-QAM	836.5	-0.60	50 / 0	23.12	20.37	0.109	38.45	-18.08
	256-QAM	844.0	-0.60	50 / 0	21.23	18.48	0.070	38.45	-19.97
15 MHz	$\pi/2$ BPSK	831.5	-0.60	75 / 0	24.95	22.20	0.166	38.45	-16.25
		836.5	-0.60	75 / 0	25.04	22.29	0.169	38.45	-16.16
		841.5	-0.60	75 / 0	25.03	22.28	0.169	38.45	-16.17
	QPSK	831.5	-0.60	1 / 36	24.96	22.21	0.166	38.45	-16.24
		836.5	-0.60	1 / 77	25.00	22.25	0.168	38.45	-16.20
		841.5	-0.60	1 / 77	25.01	22.26	0.168	38.45	-16.19
	16-QAM	841.5	-0.60	1 / 77	23.86	21.11	0.129	38.45	-17.34
	64-QAM	836.5	-0.60	75 / 0	23.11	20.36	0.109	38.45	-18.09
	256-QAM	836.5	-0.60	75 / 0	21.03	18.28	0.067	38.45	-20.17
20 MHz	$\pi/2$ BPSK	834.0	-0.60	100 / 0	24.92	22.17	0.165	38.45	-16.28
		836.5	-0.60	100 / 0	25.06	22.31	0.170	38.45	-16.14
		839.0	-0.60	100 / 0	25.06	22.31	0.170	38.45	-16.14
	QPSK	834.0	-0.60	1 / 104	24.98	22.23	0.167	38.45	-16.22
		836.5	-0.60	1 / 50	24.99	22.24	0.167	38.45	-16.21
		839.0	-0.60	1 / 104	25.16	22.41	0.174	38.45	-16.04
	16-QAM	839.0	-0.60	1 / 1	23.87	21.12	0.129	38.45	-17.33
	64-QAM	836.5	-0.60	100 / 0	23.09	20.34	0.108	38.45	-18.11
	256-QAM	839.0	-0.60	100 / 0	21.09	18.34	0.068	38.45	-20.11

Table 7-11. Antenna 3b ERP Data (NR Band n26)

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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	$\pi/2$ BPSK	826.5	-0.60	1 / 23	25.19	22.44	0.175	38.45	-16.01
		836.5	-0.60	25 / 0	25.24	22.49	0.177	38.45	-15.96
		846.5	-0.60	25 / 0	25.27	22.52	0.179	38.45	-15.93
	QPSK	826.5	-0.60	1 / 23	25.24	22.49	0.177	38.45	-15.96
		836.5	-0.60	1 / 23	25.23	22.48	0.177	38.45	-15.97
		846.5	-0.60	1 / 1	25.16	22.41	0.174	38.45	-16.04
	16-QAM	846.5	-0.60	1 / 23	24.26	21.51	0.142	38.45	-16.94
	64-QAM	836.5	-0.60	25 / 0	23.30	20.55	0.114	38.45	-17.90
	256-QAM	846.5	-0.60	25 / 0	21.27	18.52	0.071	38.45	-19.93
10 MHz	$\pi/2$ BPSK	829.0	-0.60	50 / 0	25.21	22.46	0.176	38.45	-15.99
		836.5	-0.60	50 / 0	25.34	22.59	0.182	38.45	-15.86
		844.0	-0.60	50 / 0	25.33	22.58	0.181	38.45	-15.87
	QPSK	829.0	-0.60	1 / 25	25.27	22.52	0.179	38.45	-15.93
		836.5	-0.60	1 / 25	25.26	22.51	0.178	38.45	-15.94
		844.0	-0.60	1 / 50	25.15	22.40	0.174	38.45	-16.05
	16-QAM	844.0	-0.60	1 / 25	24.16	21.41	0.138	38.45	-17.04
	64-QAM	836.5	-0.60	50 / 0	23.33	20.58	0.114	38.45	-17.87
	256-QAM	836.5	-0.60	50 / 0	21.38	18.63	0.073	38.45	-19.82
15 MHz	$\pi/2$ BPSK	831.5	-0.60	75 / 0	25.15	22.40	0.174	38.45	-16.05
		836.5	-0.60	75 / 0	25.25	22.50	0.178	38.45	-15.95
		841.5	-0.60	75 / 0	25.19	22.44	0.175	38.45	-16.01
	QPSK	831.5	-0.60	1 / 36	25.11	22.36	0.172	38.45	-16.09
		836.5	-0.60	1 / 1	25.19	22.44	0.175	38.45	-16.01
		841.5	-0.60	1 / 36	25.16	22.41	0.174	38.45	-16.04
	16-QAM	831.5	-0.60	1 / 36	24.10	21.35	0.136	38.45	-17.10
	64-QAM	836.5	-0.60	75 / 0	23.30	20.55	0.114	38.45	-17.90
	256-QAM	831.5	-0.60	75 / 0	21.22	18.47	0.070	38.45	-19.98
20 MHz	$\pi/2$ BPSK	834.0	-0.60	100 / 0	25.17	22.42	0.175	38.45	-16.03
		836.5	-0.60	100 / 0	25.30	22.55	0.180	38.45	-15.90
		839.0	-0.60	100 / 0	25.28	22.53	0.179	38.45	-15.92
	QPSK	834.0	-0.60	1 / 104	25.19	22.44	0.175	38.45	-16.01
		836.5	-0.60	1 / 104	25.14	22.39	0.173	38.45	-16.06
		839.0	-0.60	1 / 104	25.21	22.46	0.176	38.45	-15.99
	16-QAM	839.0	-0.60	1 / 104	24.11	21.36	0.137	38.45	-17.09
	64-QAM	839.0	-0.60	100 / 0	23.30	20.55	0.114	38.45	-17.90
	256-QAM	839.0	-0.60	100 / 0	21.31	18.56	0.072	38.45	-19.89

Table 7-12. Antenna 3b ERP Data (NR Band n5)

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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	25.44	-0.60	22.69	0.186	38.45	-15.76
836.60	WCDMA850	25.32	-0.60	22.57	0.181	38.45	-15.88
846.60	WCDMA850	25.39	-0.60	22.64	0.184	38.45	-15.81

Table 7-13. Antenna 3b ERP Data (WCDMA Cell)

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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 $\geq 3 \times$ 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

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Test Setup

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

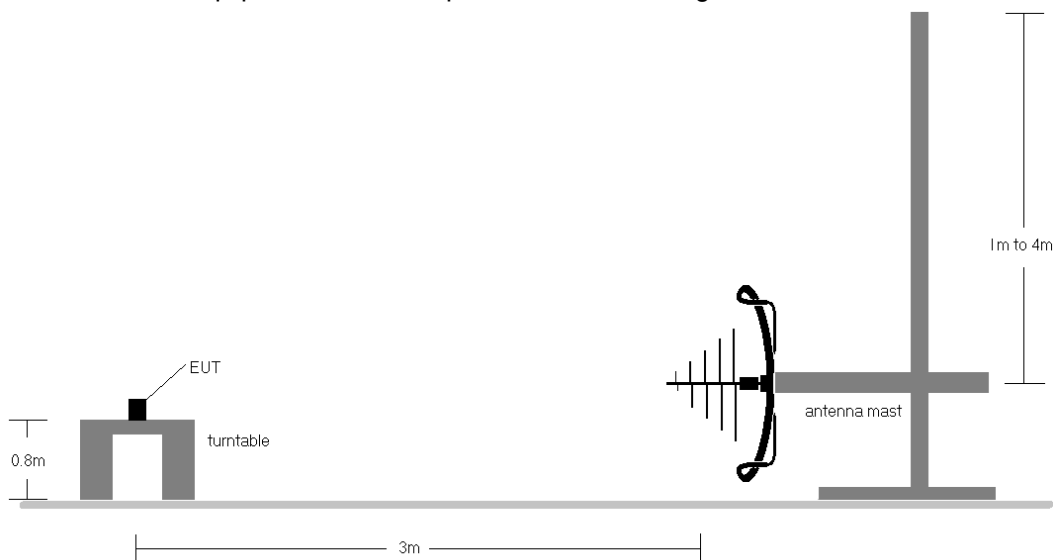


Figure 7-9. Test Instrument & Measurement Setup < 1GHz

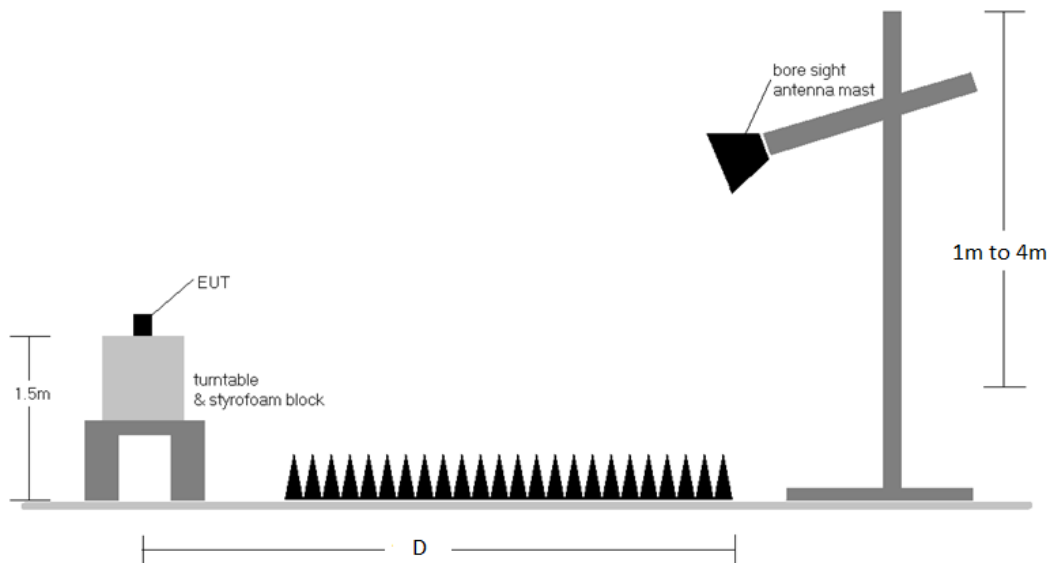


Figure 7-10. Test Instrument & Measurement Setup >1 GHz

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Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 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.
12. Pre-scan plots have been reported for the highest power antenna while measurements have been reported for all antennas.

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7.6.1 Antenna 4 – Radiated Spurious Emission Measurements

LTE Band 26/5

Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 24

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]
1658.0	H	141	346	-70.75	-2.37	33.88	-61.38	-13.00	-48.38
2487.0	H	-	-	-77.57	2.05	31.49	-63.77	-13.00	-50.77
3316.0	V	-	-	-78.69	3.97	32.27	-62.98	-13.00	-49.98
4145.0	V	-	-	-79.20	5.26	33.06	-62.20	-13.00	-49.20

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

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 24

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]
1673.0	H	149	17	-69.79	-2.33	34.88	-60.38	-13.00	-47.38
2509.5	H	-	-	-77.81	1.99	31.18	-64.08	-13.00	-51.08
3346.0	H	-	-	-78.50	3.72	32.21	-63.04	-13.00	-50.04
4182.5	V	-	-	-79.07	5.30	33.23	-62.03	-13.00	-49.03

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

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 24

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]
1688.0	H	199	41	-65.99	-2.29	38.72	-56.54	-13.00	-43.54
2532.0	V	-	-	-77.96	2.08	31.12	-64.14	-13.00	-51.14
3376.0	V	-	-	-78.63	3.66	32.03	-63.23	-13.00	-50.23
4220.0	H	-	-	-79.05	5.28	33.23	-62.03	-13.00	-49.03

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

FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	236	348	-71.29	-3.20	32.52	-62.74	-13.00	-49.74
2487.0	H	-	-	-77.43	1.32	30.88	-64.37	-13.00	-51.37
3316.0	H	-	-	-78.24	3.04	31.81	-63.45	-13.00	-50.45
4145.0	H	-	-	-78.70	4.52	32.82	-62.44	-13.00	-49.44

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

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	831.5
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	841.4
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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1663.0	H	172	335	-72.63	-3.20	31.18	-64.08	-13.00	-51.08
2494.5	H	-	-	-77.60	1.59	30.99	-64.27	-13.00	-51.27
3326.0	H	-	-	-78.28	3.07	31.79	-63.47	-13.00	-50.47
4157.5	V	-	-	-78.74	4.52	32.78	-62.48	-13.00	-49.48

Table 7-18. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – Mid 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	176	360	-70.61	-3.20	33.20	-62.06	-13.00	-49.06
2532.0	V	-	-	-77.55	1.60	31.04	-64.21	-13.00	-51.21
3376.0	H	-	-	-78.59	3.34	31.76	-63.50	-13.00	-50.50
4220.0	H	-	-	-78.66	4.37	32.71	-62.54	-13.00	-49.54

Table 7-19. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26/n5

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	173	357	-69.19	-2.33	35.48	-59.78	-13.00	-46.78
2502.0	V	-	-	-78.00	1.99	30.99	-64.27	-13.00	-51.27
3336.0	H	-	-	-78.56	3.97	32.41	-62.85	-13.00	-49.85
4170.0	H	-	-	-79.20	5.26	33.06	-62.20	-13.00	-49.20

Table 7-20. Antenna 4 Radiated Spurious Data (NR Band n26/n5 – 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	146	27	-67.41	-2.33	37.26	-58.00	-13.00	-45.00
2509.5	V	-	-	-78.05	2.05	31.01	-64.25	-13.00	-51.25
3346.0	V	-	-	-78.59	3.72	32.12	-63.13	-13.00	-50.13
4182.5	V	-	-	-79.74	5.87	33.13	-62.13	-13.00	-49.13

Table 7-21. Antenna 4 Radiated Spurious Data (NR Band n26/n5 – 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	142	22	-66.91	-2.33	37.76	-57.50	-13.00	-44.50
2517.0	V	-	-	-78.06	1.99	30.93	-64.32	-13.00	-51.32
3356.0	V	-	-	-78.66	3.72	32.06	-63.20	-13.00	-50.20
4195.0	H	-	-	-79.33	5.28	32.95	-62.30	-13.00	-49.30

Table 7-22. Antenna 4 Radiated Spurious Data (NR Band n26/n5 – High Channel)

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.8	H	204	355	-75.64	-2.37	28.99	-66.27	-13.00	-53.27
2479.2	-	-	-	-78.08	2.09	31.01	-64.25	-13.00	-51.25
3305.6	-	-	-	-78.81	3.97	32.15	-63.10	-13.00	-50.10
4132.0	-	-	-	-79.10	5.07	32.97	-62.29	-13.00	-49.29

Table 7-23. 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	H	149	23	-73.42	-2.33	31.25	-64.01	-13.00	-51.01
2509.8	-	-	-	-77.78	1.98	31.19	-64.06	-13.00	-51.06
3346.4	-	-	-	-78.70	3.72	32.02	-63.24	-13.00	-50.24
4183.0	-	-	-	-79.03	5.26	33.23	-62.03	-13.00	-49.03

Table 7-24. 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	H	203	27	-69.43	-2.29	35.28	-59.98	-13.00	-46.98
2539.8	-	-	-	-78.15	2.28	31.13	-64.12	-13.00	-51.12
3386.4	-	-	-	-78.87	3.72	31.85	-63.41	-13.00	-50.41
4233.0	-	-	-	-79.18	5.33	33.15	-62.10	-13.00	-49.10

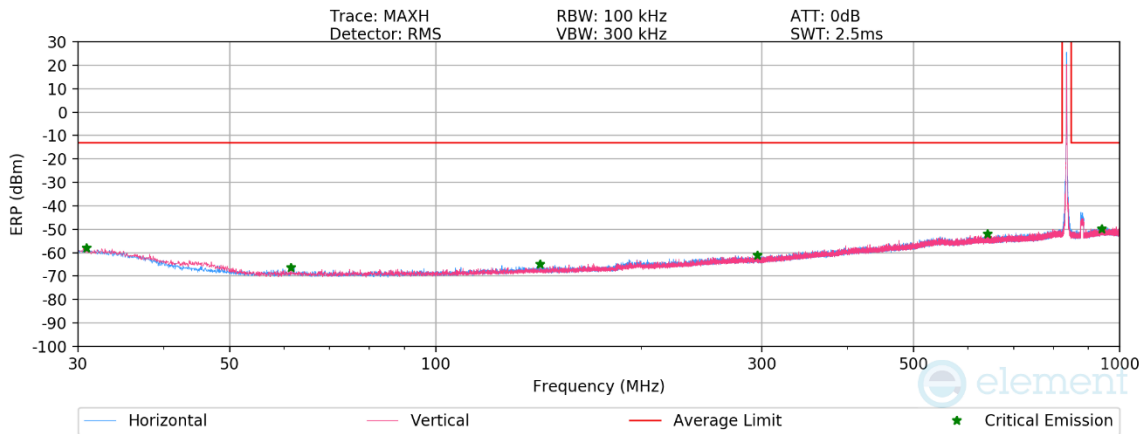
Table 7-25. Antenna 4 Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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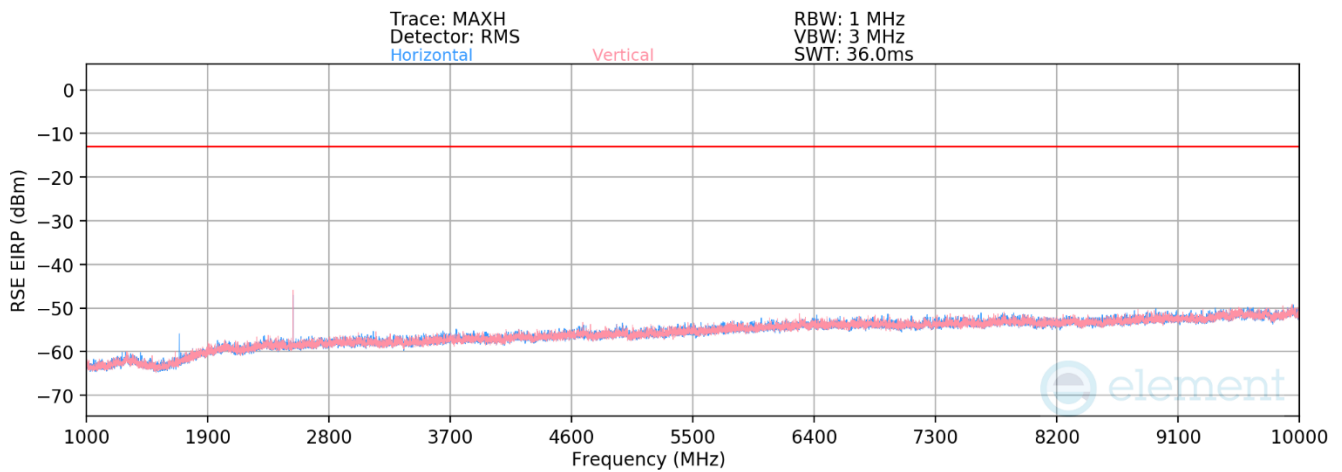
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7.6.2 Antenna 3b – Radiated Spurious Emission Measurements

LTE Band 26/5



Plot 7-114. Antenna 3b Radiated Spurious Plot below 1GHz (LTE Band 26/5)



Plot 7-115. Antenna 3b Radiated Spurious Plot above 1GHz (LTE Band 26/5)

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 24

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]
1658.0	H	-	-	-77.51	-2.33	27.16	-68.10	-13.00	-55.10
2487.0	V	275	118	-62.91	1.99	46.08	-49.18	-13.00	-36.18
3316.0	H	-	-	-78.84	3.97	32.12	-63.14	-13.00	-50.14
4145.0	H	-	-	-79.19	5.26	33.06	-62.19	-13.00	-49.19
4974.0	V	-	-	-79.89	6.66	33.76	-61.49	-13.00	-48.49

Table 7-26. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 24

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]
1673.0	H	-	-	-76.38	-2.33	28.29	-66.97	-13.00	-53.97
2509.5	V	389	280	-61.11	2.05	47.94	-47.32	-13.00	-34.32
3346.0	V	-	-	-78.67	3.97	32.29	-62.96	-13.00	-49.96
4182.5	H	-	-	-79.77	5.87	33.10	-62.16	-13.00	-49.16
5019.0	V	-	-	-80.29	6.88	33.58	-61.67	-13.00	-48.67

Table 7-27. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 24

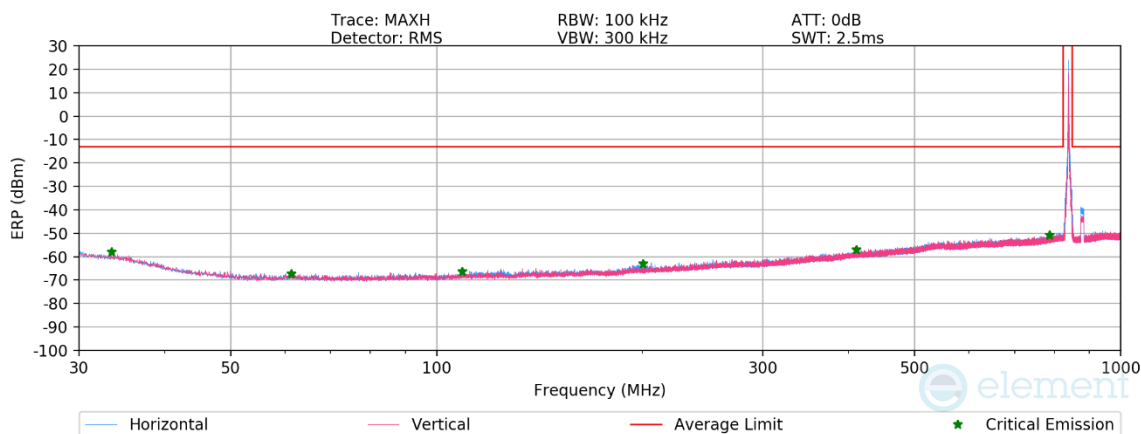
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	H	260	3	-69.22	-2.29	35.49	-59.77	-13.00	-46.77
2532.0	V	345	85	-58.23	2.08	50.84	-44.42	-13.00	-31.42
3376.0	V	-	-	-78.87	3.72	31.85	-63.41	-13.00	-50.41
4220.0	V	-	-	-79.18	5.28	33.10	-62.15	-13.00	-49.15
5064.0	V	-	-	-80.23	7.29	34.07	-61.19	-13.00	-48.19

Table 7-28. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – High Channel)

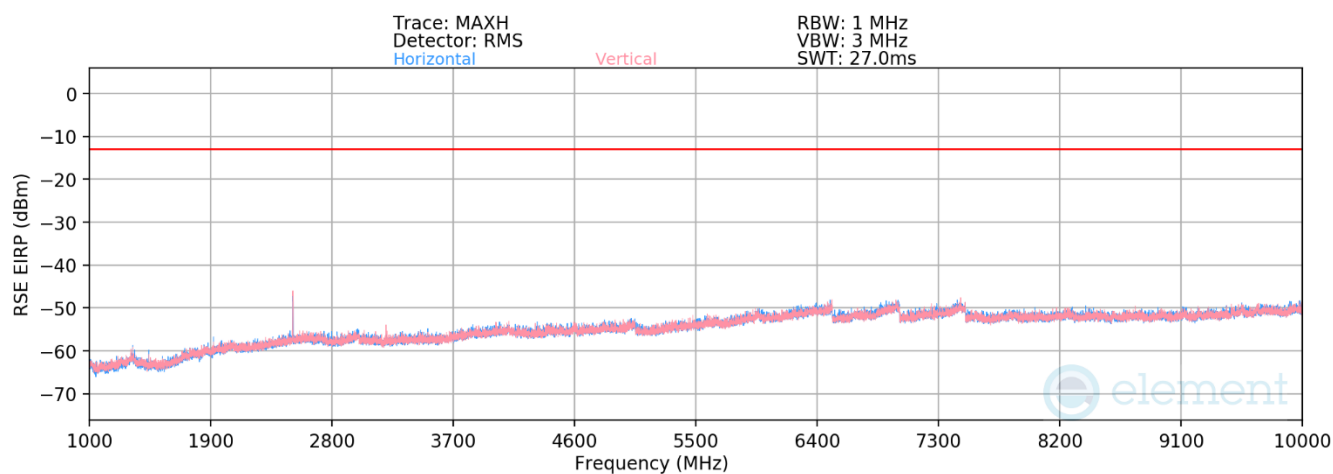
FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 5



Plot 7-116. Antenna 3b Radiated Spurious Plot below 1GHz (ULCA LTE Band 5)



Plot 7-117. Antenna 3b Radiated Spurious Plot above 1GHz (ULCA LTE Band 5)

FCC ID: BCGA3460		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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	H	-	-	-76.48	-3.26	27.26	-68.00	-13.00	-55.00
2487.0	V	349	273	-62.15	1.60	46.45	-48.81	-13.00	-35.81
3316.0	H	-	-	-78.55	3.32	31.78	-63.48	-13.00	-50.48
4145.0	V	-	-	-78.60	4.52	32.92	-62.34	-13.00	-49.34
4974.0	V	-	-	-78.51	5.95	34.44	-60.81	-13.00	-47.81

Table 7-29. Antenna 3b Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	831.5
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	841.4
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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1663.0	H	-	-	-76.79	-3.26	26.95	-68.31	-13.00	-55.31
2494.5	V	400	278	-59.93	1.60	48.67	-46.59	-13.00	-33.59
3326.0	H	-	-	-77.97	3.04	32.07	-63.19	-13.00	-50.19
4157.5	V	-	-	-78.71	4.52	32.81	-62.45	-13.00	-49.45
4989.0	H	-	-	-79.16	6.62	34.46	-60.80	-13.00	-47.80

Table 7-30. Antenna 3b Radiated Spurious Data (ULCA LTE Band 5 – Mid 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

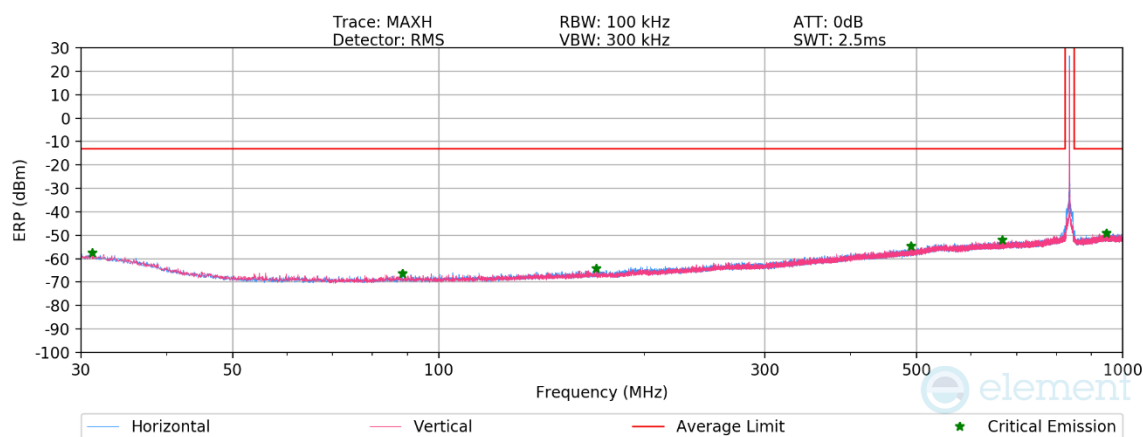
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	V	-	-	-76.40	-3.17	27.43	-67.83	-13.00	-54.83
2532.0	V	363	274	-68.26	1.59	40.32	-54.93	-13.00	-41.93
3376.0	V	-	-	-78.36	3.07	31.70	-63.55	-13.00	-50.55
4220.0	V	-	-	-78.77	4.52	32.75	-62.51	-13.00	-49.51
5064.0	V	-	-	-78.42	5.95	34.53	-60.72	-13.00	-47.72

Table 7-31. Antenna 3b Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

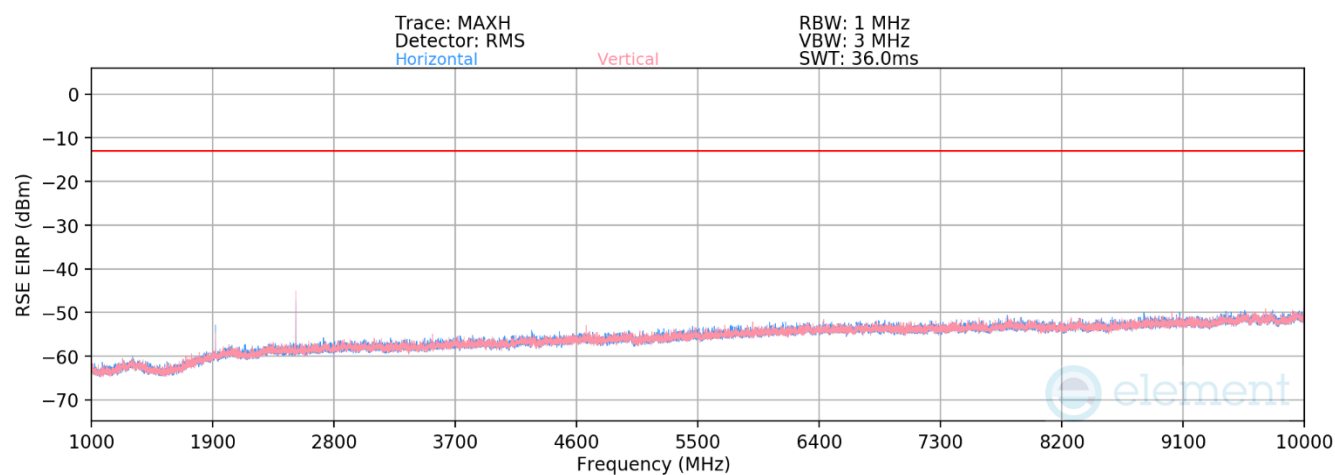
FCC ID: BCGA3460	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26/n5



Plot 7-118. Antenna 3b Radiated Spurious Plot below 1GHz (NR Band n26/n5)



Plot 7-119. Antenna 3b Radiated Spurious Plot above 1GHz (NR Band n26/n5)

FCC ID: BCGA3460		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	H	-	-	-77.67	-2.29	27.04	-68.22	-13.00	-55.22
2502.0	V	356	84	-63.16	2.05	45.90	-49.36	-13.00	-36.36
3336.0	V	-	-	-78.55	3.72	32.16	-63.09	-13.00	-50.09
4170.0	V	-	-	-79.25	5.26	33.01	-62.25	-13.00	-49.25
5004.0	H	-	-	-80.27	6.88	33.61	-61.65	-13.00	-48.65

Table 7-32. Antenna 3b Radiated Spurious Data (NR Band n26/n5 – 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	H	-	-	-78.47	-2.29	26.23	-69.02	-13.00	-56.02
2509.5	V	357	87	-62.80	2.05	46.25	-49.00	-13.00	-36.00
3346.0	V	-	-	-78.91	3.97	32.05	-63.21	-13.00	-50.21
4182.5	V	-	-	-79.25	5.26	33.01	-62.25	-13.00	-49.25
5019.0	H	-	-	-80.27	6.88	33.61	-61.65	-13.00	-48.65

Table 7-33. Antenna 3b Radiated Spurious Data (NR Band n26/n5 – 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	H	259	15	-73.72	-2.33	30.95	-64.31	-13.00	-51.31
2517.0	V	392	86	-61.27	1.98	47.71	-47.55	-13.00	-34.55
3356.0	H	-	-	-78.45	3.72	32.27	-62.99	-13.00	-49.99
4195.0	H	-	-	-79.35	5.61	33.26	-62.00	-13.00	-49.00
5034.0	V	-	-	-80.74	7.23	33.49	-61.76	-13.00	-48.76

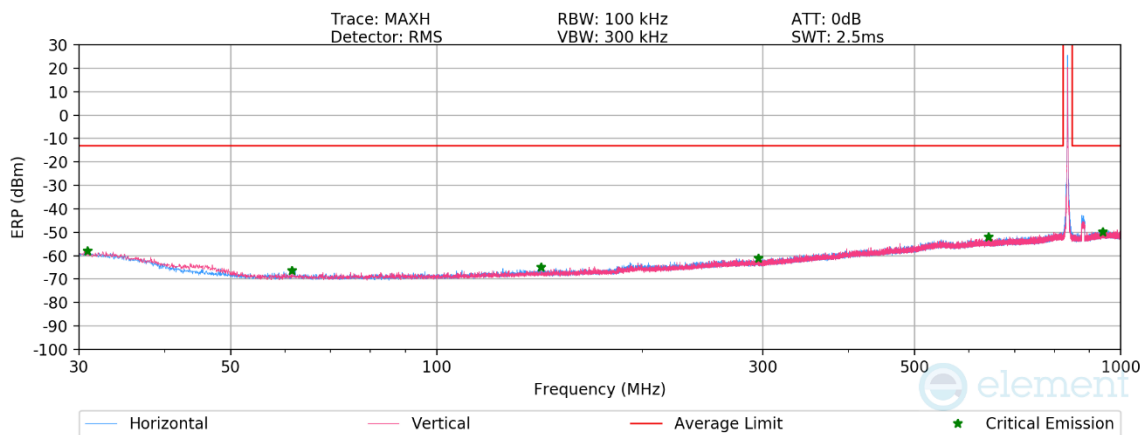
Table 7-34. Antenna 3b Radiated Spurious Data (NR Band n26/n5 – High Channel)

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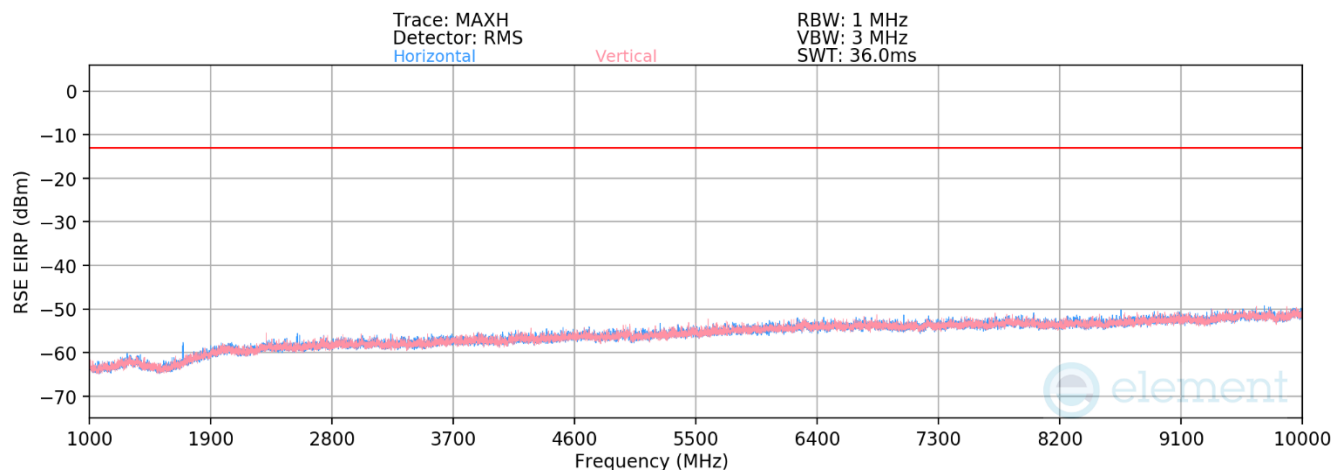
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WCDMA Cell



Plot 7-120. Antenna 3b Radiated Spurious Plot below 1GHz (WCDMA Cell)



Plot 7-121. Antenna 3b Radiated Spurious Plot above 1GHz (WCDMA Cell)

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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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.8	-	-	-	-77.30	-2.37	27.33	-67.93	-13.00	-54.93
2479.2	V	375	80	-72.69	2.09	36.40	-58.85	-13.00	-45.85
3305.6	-	-	-	-78.95	3.97	32.01	-63.25	-13.00	-50.25
4132.0	-	-	-	-79.28	5.07	32.80	-62.46	-13.00	-49.46
4958.4	-	-	-	-79.91	6.66	33.74	-61.51	-13.00	-48.51

Table 7-35. Antenna 3b 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.2	-	-	-	-76.98	-2.33	27.69	-67.57	-13.00	-54.57
2509.8	V	361	84	-72.90	2.05	36.15	-59.11	-13.00	-46.11
3346.4	-	-	-	-78.52	3.72	32.20	-63.06	-13.00	-50.06
4183.0	-	-	-	-79.41	5.28	32.87	-62.38	-13.00	-49.38
5019.6	-	-	-	-80.24	6.88	33.63	-61.62	-13.00	-48.62

Table 7-36. Antenna 3b 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.2	H	134	8	-70.29	-2.29	34.41	-60.84	-13.00	-47.84
2539.8	V	370	85	-71.07	2.08	38.00	-57.25	-13.00	-44.25
3386.4	-	-	-	-78.85	3.52	31.67	-63.59	-13.00	-50.59
4233.0	-	-	-	-79.20	5.28	33.08	-62.18	-13.00	-49.18
5079.6	-	-	-	-80.36	7.29	33.94	-61.32	-13.00	-48.32

Table 7-37. Antenna 3b Radiated Spurious Data (WCDMA Cell – High Channel)

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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 $\pm 0.00025\%$ (± 2.5 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.

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Test Setup

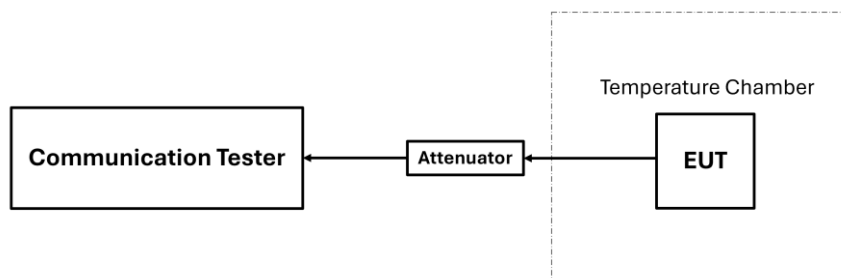


Figure 7-11. LTE Test Instrument & Measurement Setup

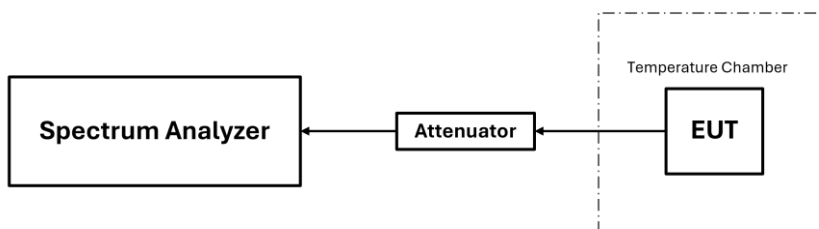


Figure 7-12. FR1 Test Instrument & Measurement Setup

Test Notes

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

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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:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,090	-42.00	-0.0000050
		- 20	836,500,249	117.00	0.0000140
		- 10	836,500,043	-89.00	-0.0000106
		0	836,500,196	64.00	0.0000077
		+ 10	836,500,125	-7.00	-0.0000008
		+ 20 (Ref)	836,500,132	0.00	0.0000000
		+ 30	836,500,011	-121.00	-0.0000145
		+ 40	836,500,180	48.00	0.0000057
		+ 50	836,500,151	19.00	0.0000023
Battery Endpoint	3.40	+ 20	836,500,028	-104.00	-0.0000124

Table 7-38. LTE Band 26/5 Frequency Tolerance Data

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Frequency Tolerance / Temperature Variation

NR Band n26/n5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,499,931	-128.00	-0.0000153
		- 20	836,500,133	74.00	0.0000088
		- 10	836,500,042	-17.00	-0.0000020
		0	836,500,192	133.00	0.0000159
		+ 10	836,499,967	-92.00	-0.0000110
		+ 20 (Ref)	836,500,059	0.00	0.0000000
		+ 30	836,500,024	-35.00	-0.0000042
		+ 40	836,500,179	120.00	0.0000143
		+ 50	836,499,991	-68.00	-0.0000081
Battery Endpoint	3.40	+ 20	836,500,066	7.00	0.0000008

Table 7-39. NR Band n26/n5 Frequency Tolerance Data

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Frequency Tolerance / Temperature Variation

WCDMA Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,600,176	129.00	0.0000154
		- 20	836,599,963	-84.00	-0.0000100
		- 10	836,600,110	63.00	0.0000075
		0	836,600,042	-5.00	-0.0000006
		+ 10	836,599,917	-130.00	-0.0000155
		+ 20 (Ref)	836,600,047	0.00	0.0000000
		+ 30	836,599,948	-99.00	-0.0000118
		+ 40	836,600,065	18.00	0.0000022
		+ 50	836,599,976	-71.00	-0.0000085
Battery Endpoint	3.40	+ 20	836,600,149	102.00	0.0000122

Table 7-40. WCDMA Cell Frequency Tolerance Data

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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: BCGA3460** complies with all the requirements of Part 22 of the FCC rules.

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