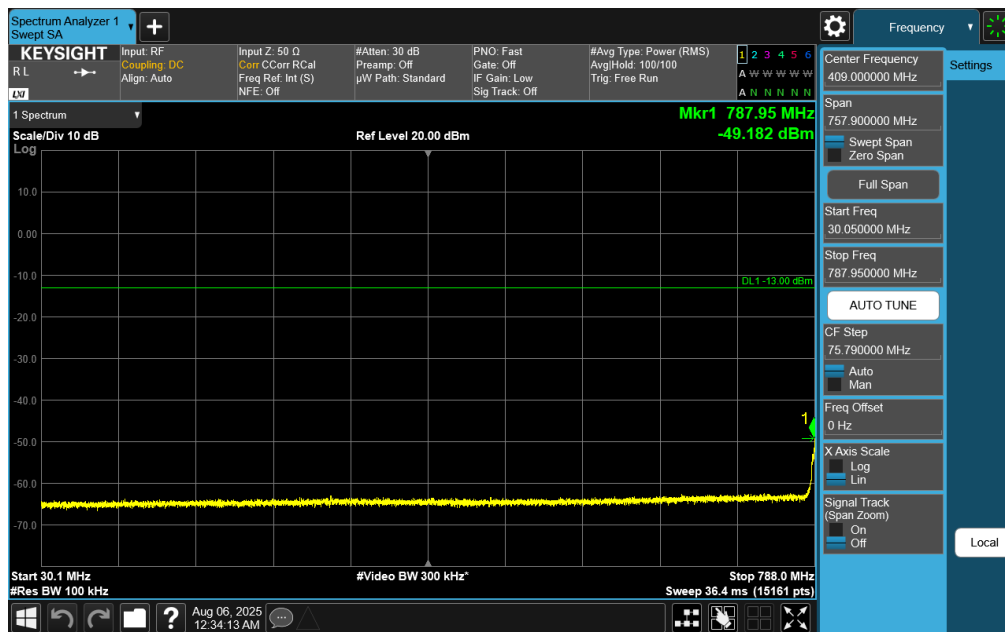
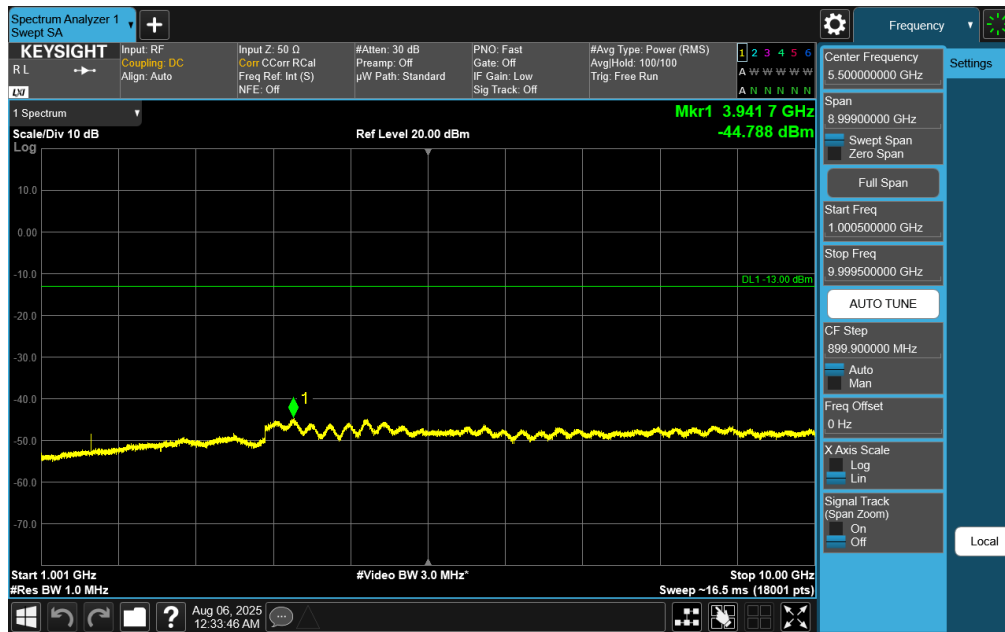
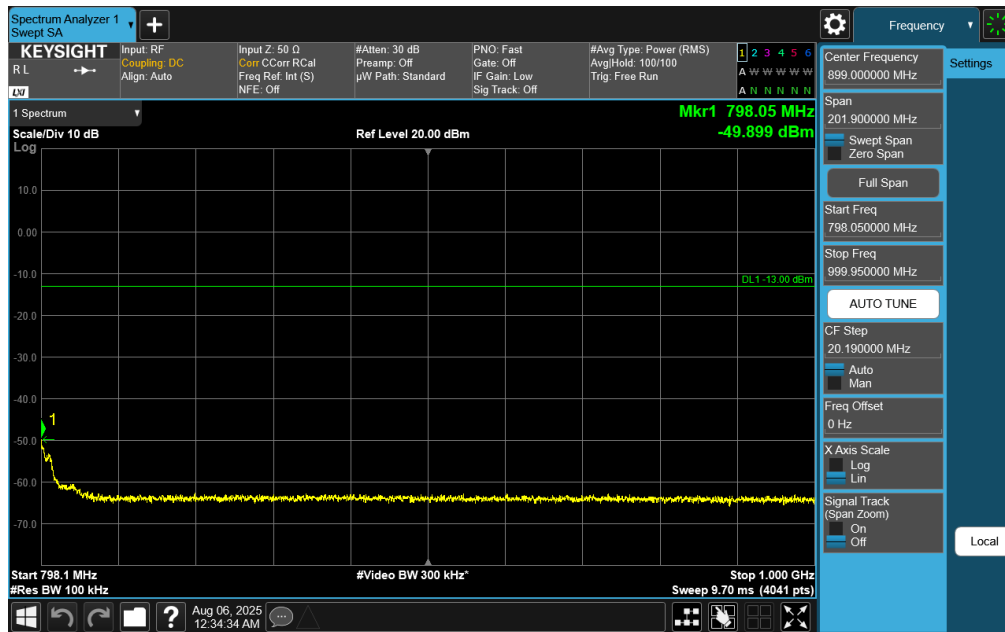




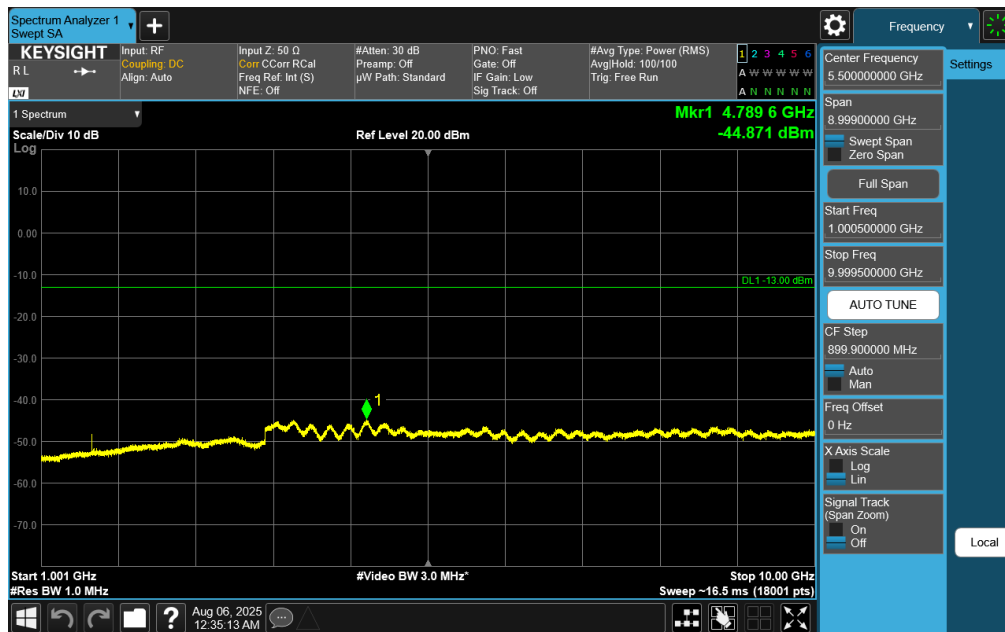
FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-76. Conducted Spurious Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

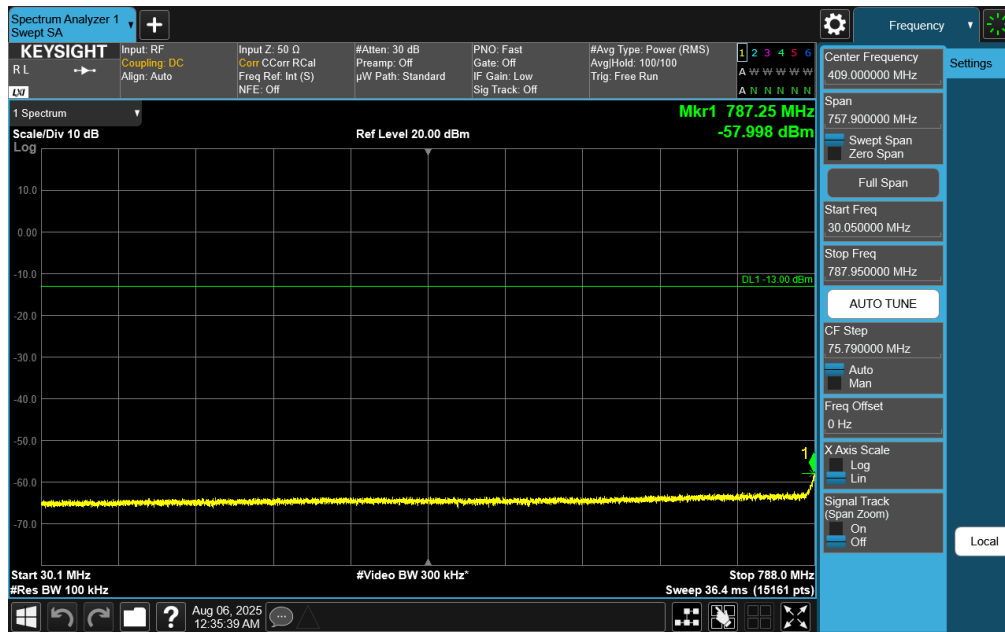


Plot 7-77. Conducted Spurious Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

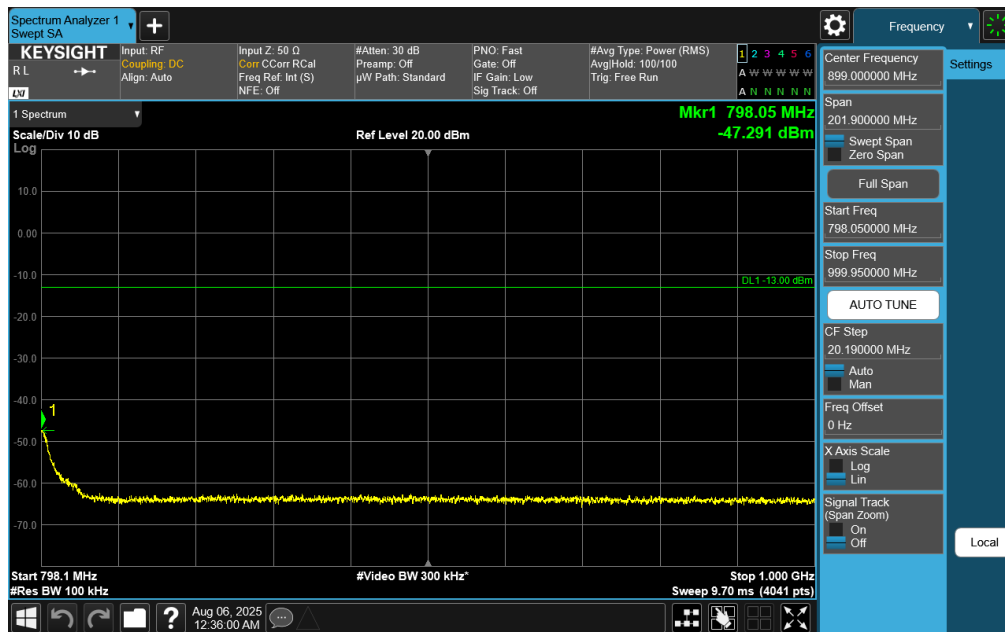
FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device
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Plot 7-78. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

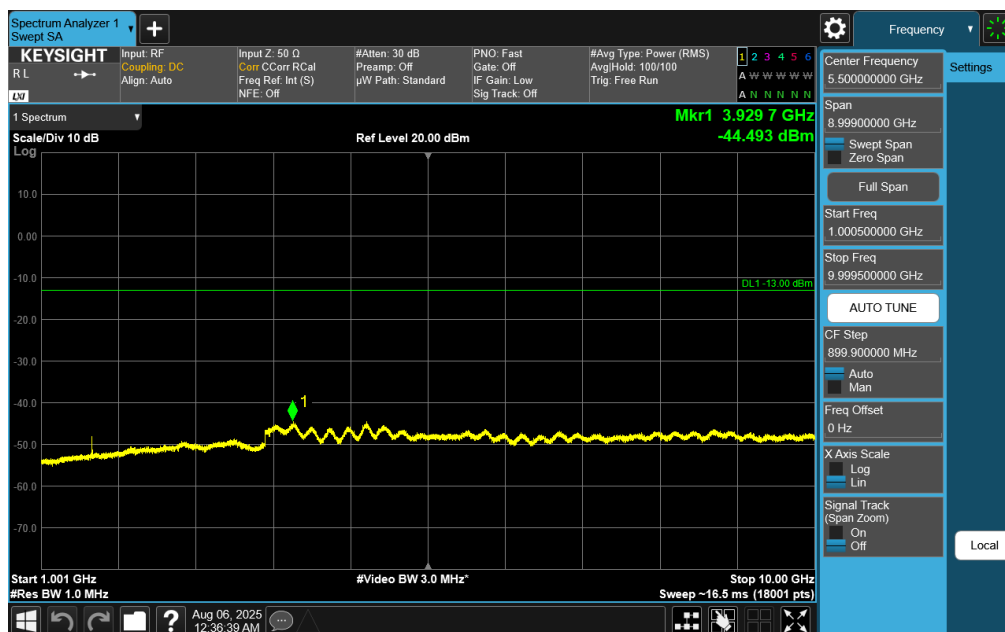


Plot 7-79. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-80. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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7.4 Band Edge Emissions at Antenna Terminal

§2.1051 §90.691(a) §90.543(e)

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 were reported.

For LTE Band 26 and NR Band n26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is $43 + 10\log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is $50 + 10\log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Span was set large enough so as to capture all out of band emissions near the band edge
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = RMS
5. Trace mode = trace average
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

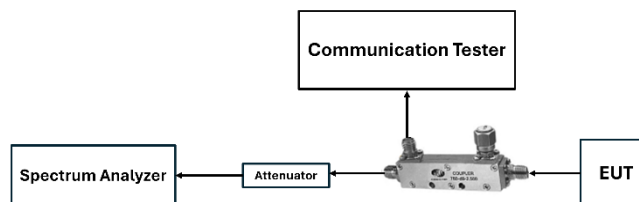


Figure 7-5. LTE Instrument & Measurement Setup

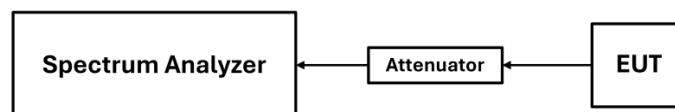


Figure 7-6. FR1 Instrument & Measurement Setup

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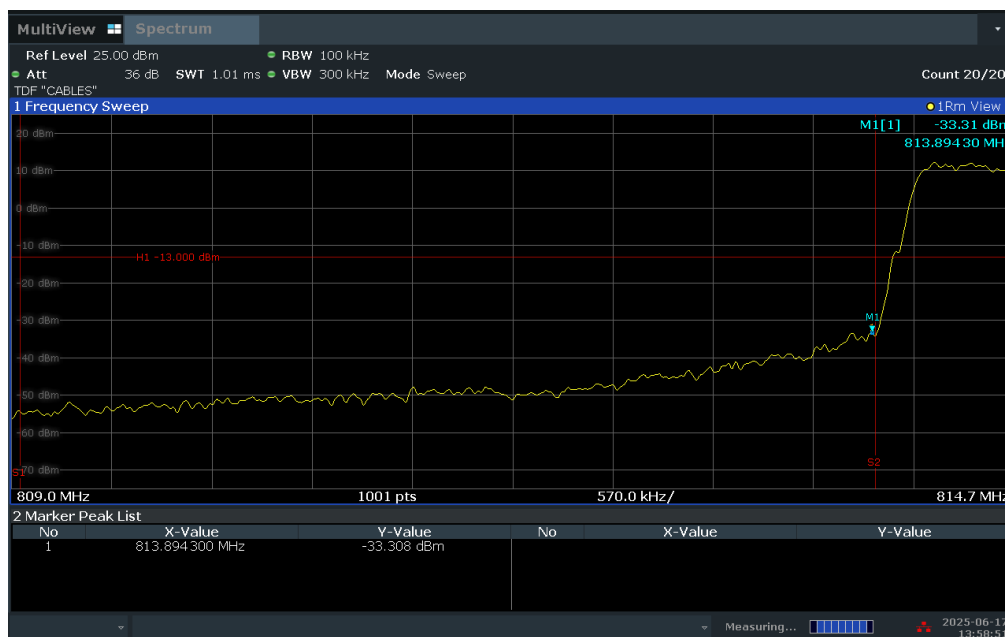
Test Notes

1. Per Part 90, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz 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.
2. For LTE Band 14 and NR Band n14 operation under Part 90.543, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10\log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.
3. Additionally, for LTE Band 14 and NR Band n14 operation, on all frequencies between 769-775 MHz and 799-805 MHz, the power of any emission shall be attenuated by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
4. 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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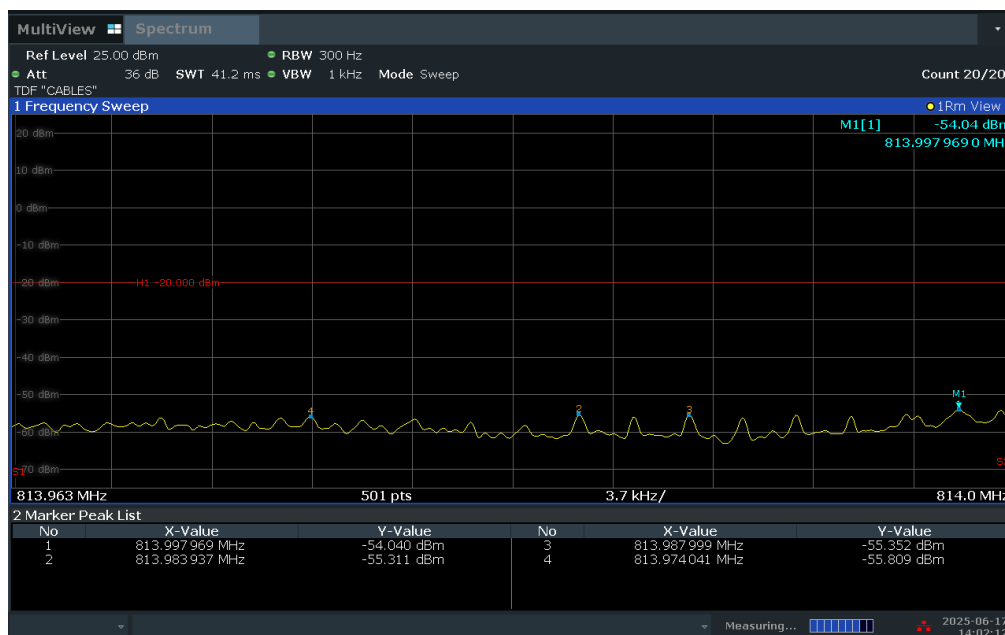
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LTE Band 26



01:58:51 PM 06/17/2025

Plot 7-81. Lower Band Edge Plot (LTE Band 26 – 1.4MHz QPSK – Low Channel)



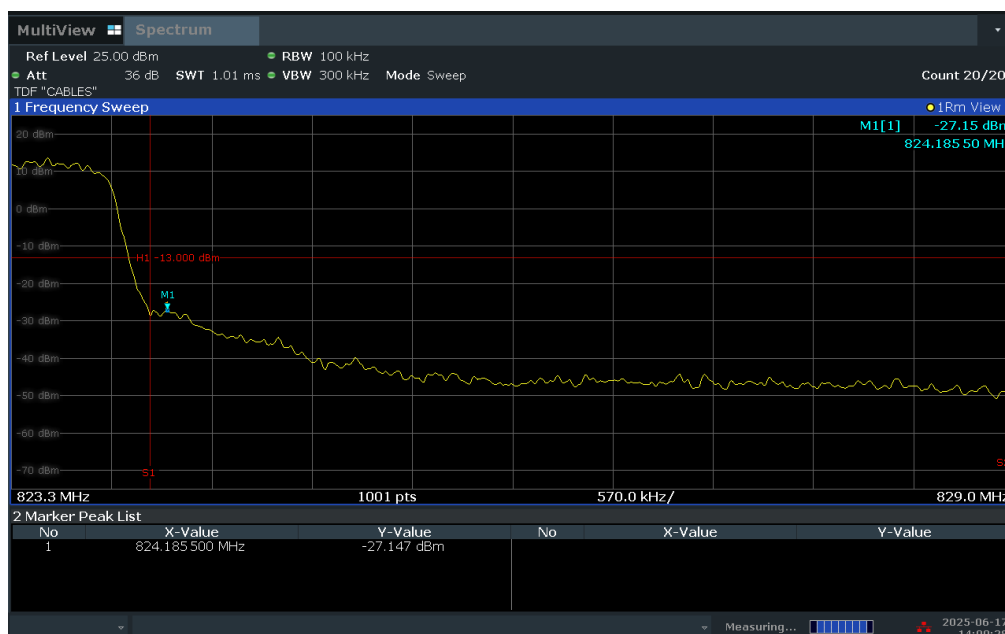
02:02:12 PM 06/17/2025

Plot 7-82. Extended Lower Band Edge Plot (LTE Band 26 – 1.4MHz QPSK – Low Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 61 of 108

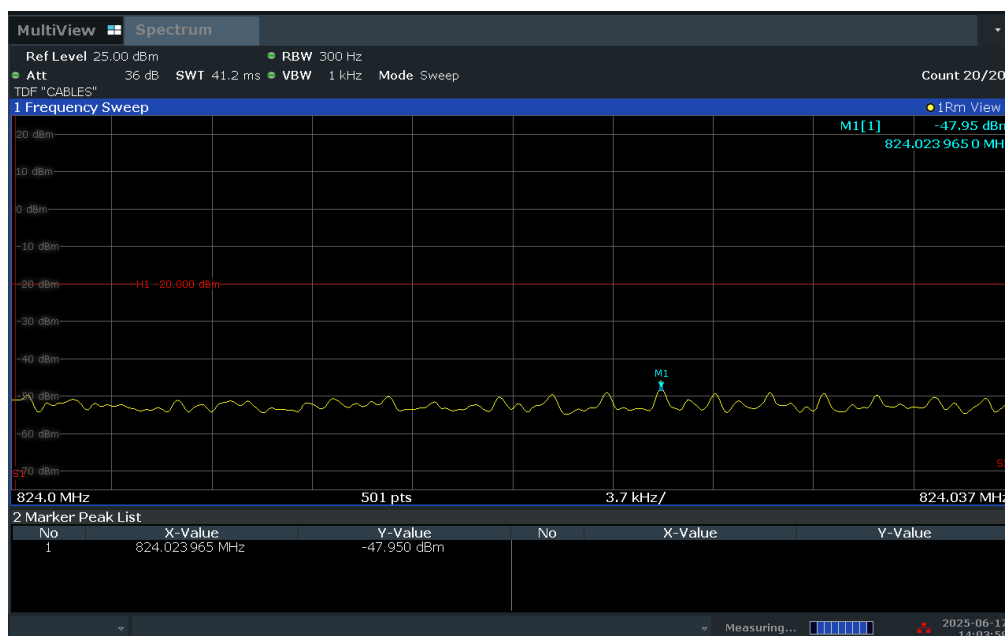
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02:00:29 PM 06/17/2025

Plot 7-83. Upper Band Edge Plot (LTE Band 26 – 1.4MHz QPSK – High Channel)



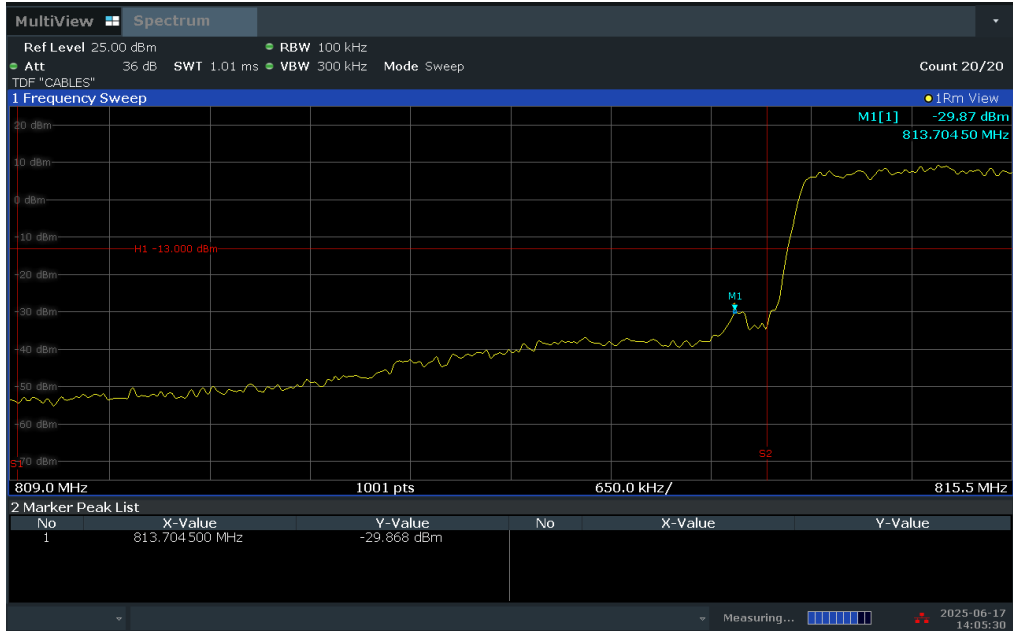
02:03:58 PM 06/17/2025

Plot 7-84. Extended Upper Band Edge Plot (LTE Band 26 – 1.4MHz QPSK – High Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 62 of 108

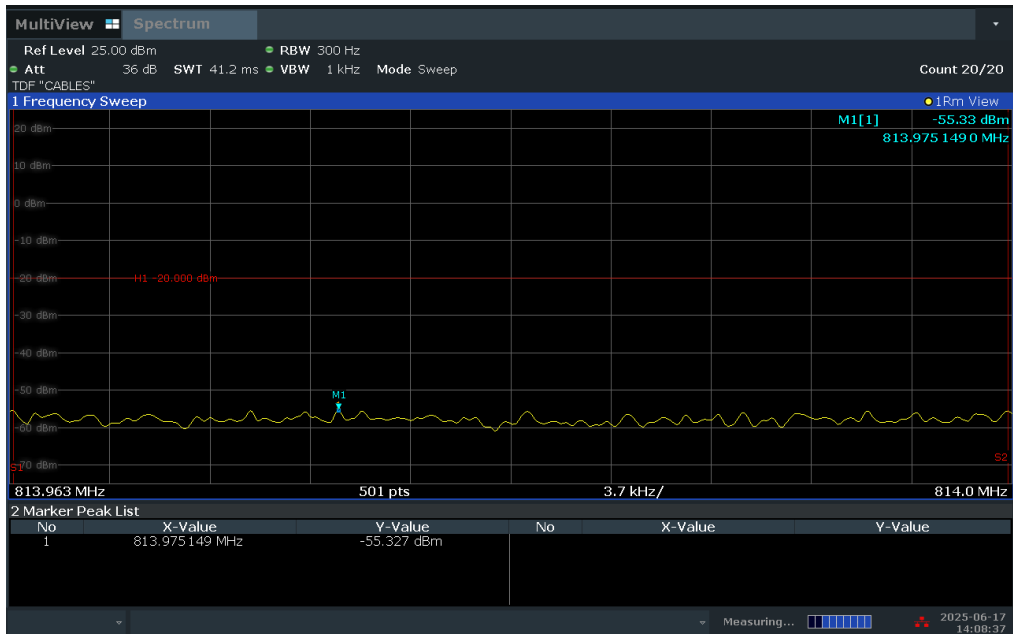
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02:05:31 PM 06/17/2025

Plot 7-85. Lower Band Edge Plot (LTE Band 26 – 3MHz QPSK – Low Channel)



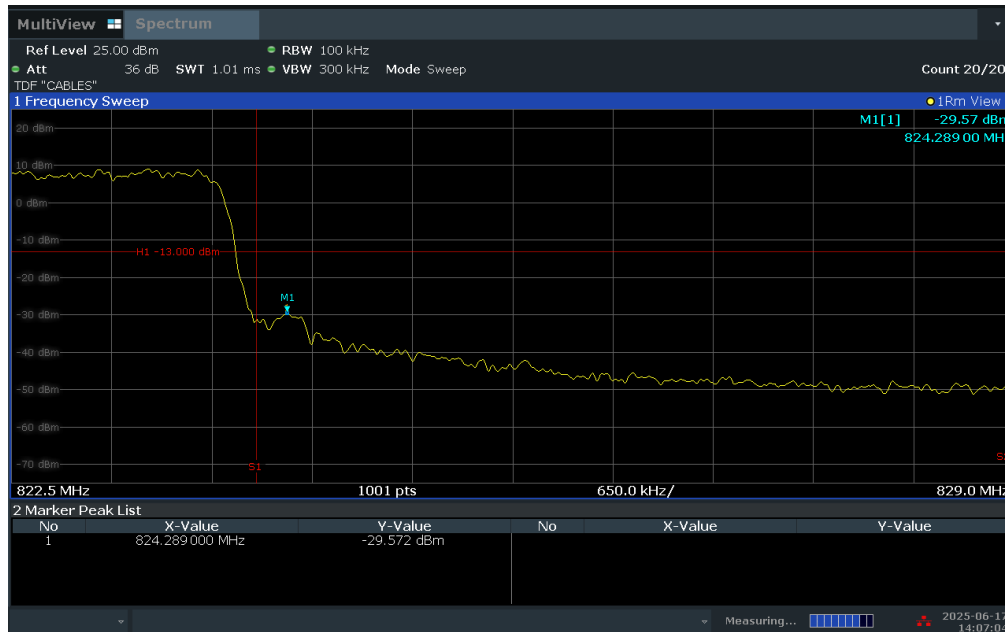
02:08:37 PM 06/17/2025

Plot 7-86. Extended Lower Band Edge Plot (LTE Band 26 – 3MHz QPSK – Low Channel)

FCC ID: BCGA3361		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 63 of 108

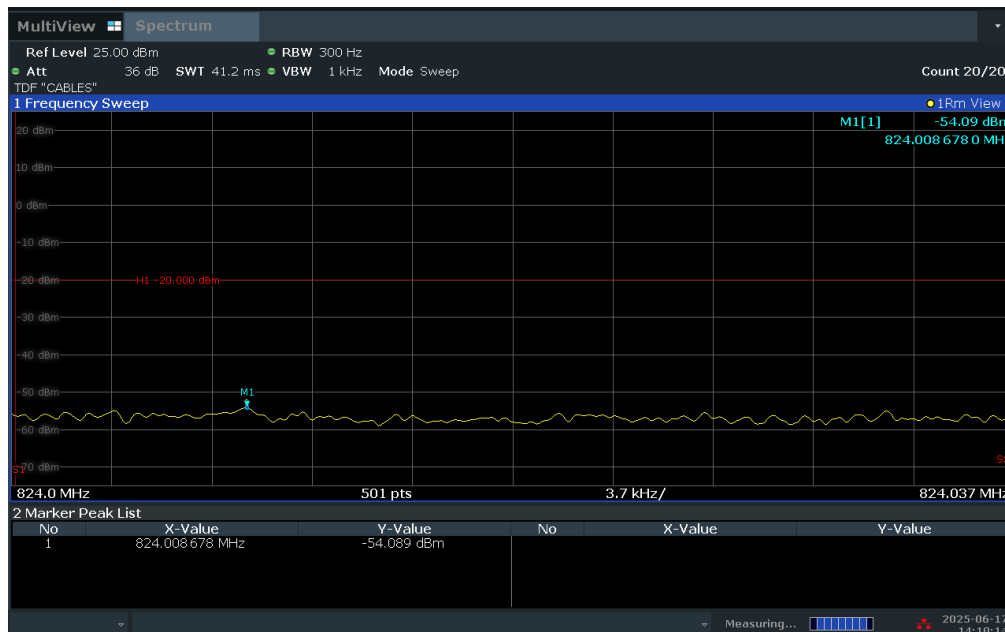
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02:07:04 PM 06/17/2025

Plot 7-87. Upper Band Edge Plot (LTE Band 26 – 3MHz QPSK – High Channel)



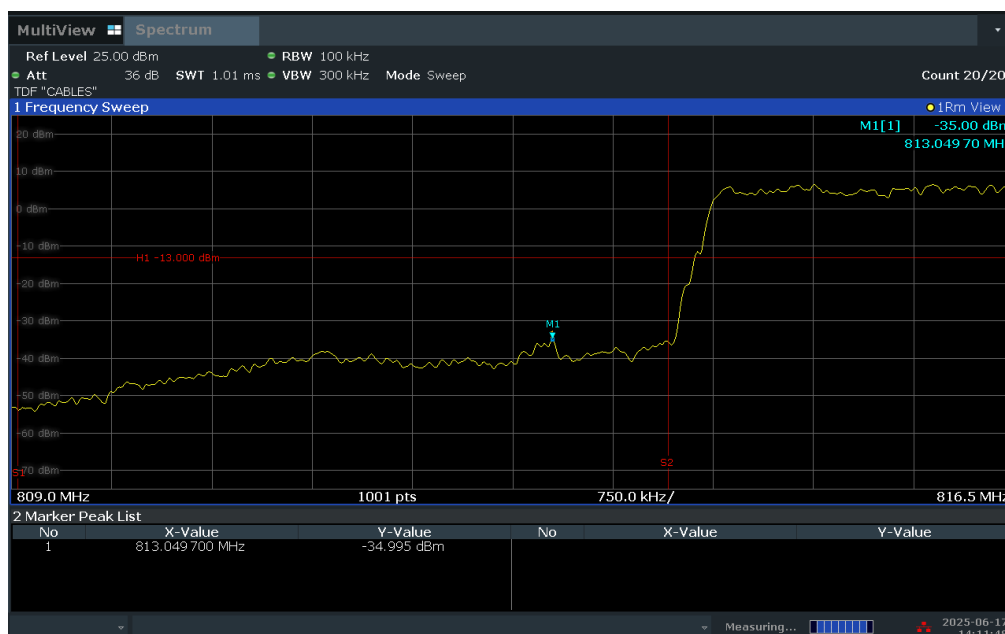
02:10:15 PM 06/17/2025

Plot 7-88. Extended Upper Band Edge Plot (LTE Band 26 – 3MHz QPSK – High Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device
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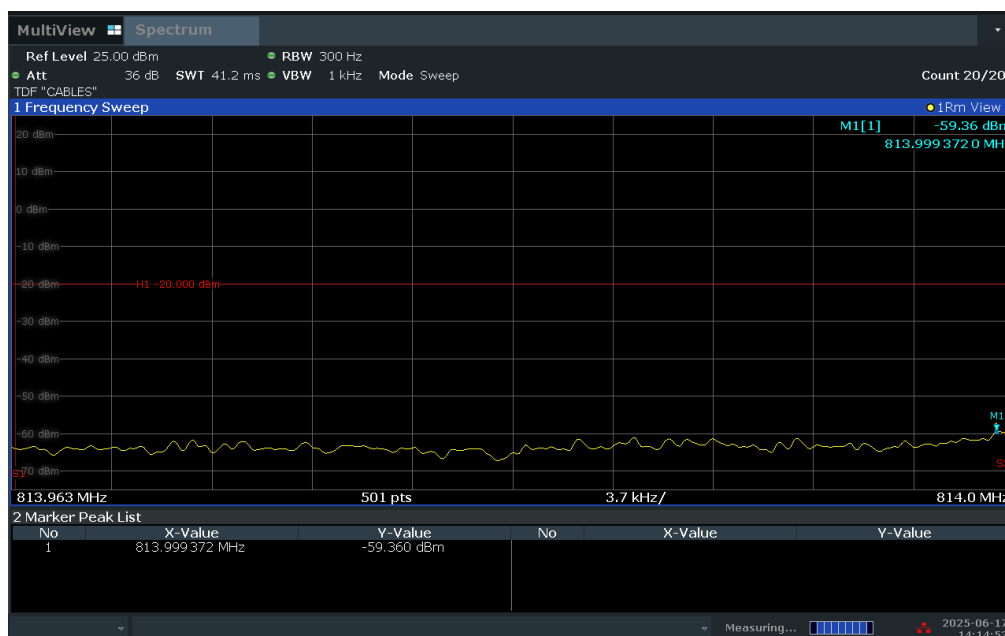
V2.2 09/07/2023

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02:11:48 PM 06/17/2025

Plot 7-89. Lower Band Edge Plot (LTE Band 26 – 5MHz QPSK – Low Channel)



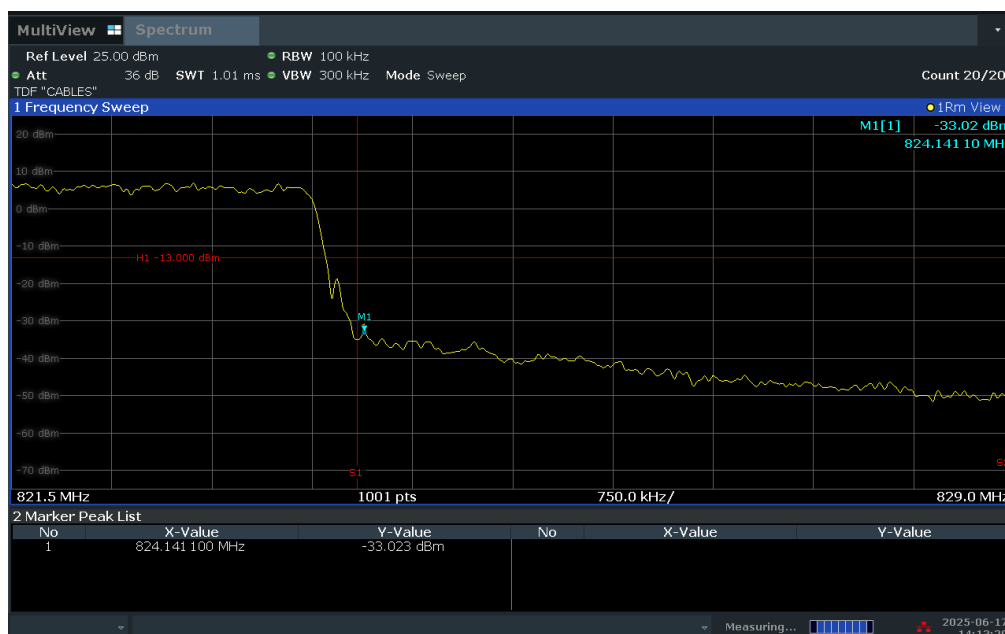
02:14:53 PM 06/17/2025

Plot 7-90. Extended Lower Band Edge Plot (LTE Band 26 – 5MHz QPSK – Low Channel)

FCC ID: BCGA3361		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 65 of 108

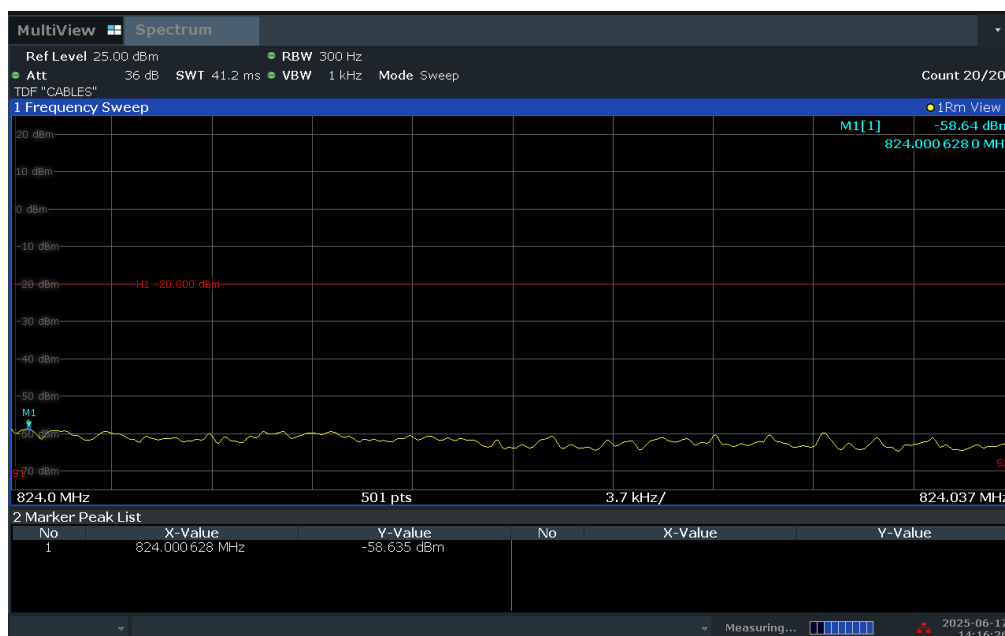
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02:13:21 PM 06/17/2025

Plot 7-91. Upper Band Edge Plot (LTE Band 26 – 5MHz QPSK – High Channel)



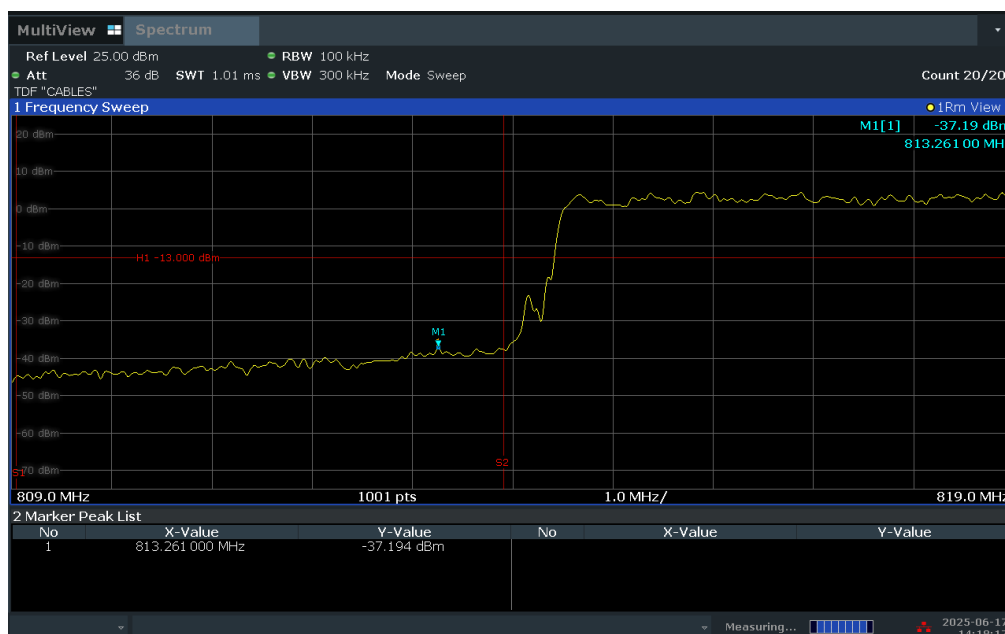
02:16:26 PM 06/17/2025

Plot 7-92. Extended Upper Band Edge Plot (LTE Band 26 – 5MHz QPSK – High Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device
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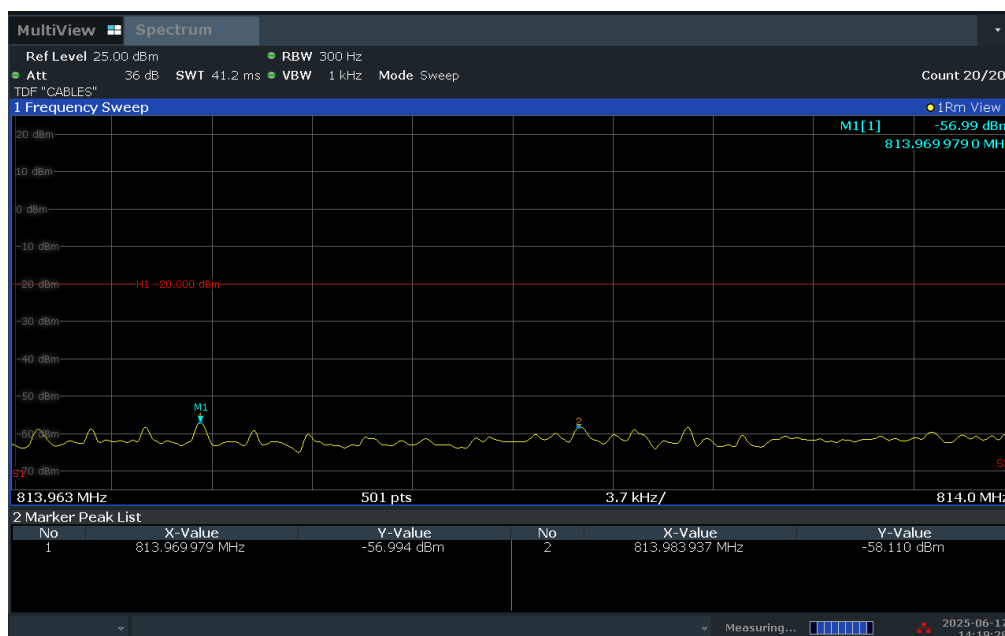
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02:18:17 PM 06/17/2025

Plot 7-93. Lower Band Edge Plot (LTE Band 26 – 10MHz QPSK – Low Channel)



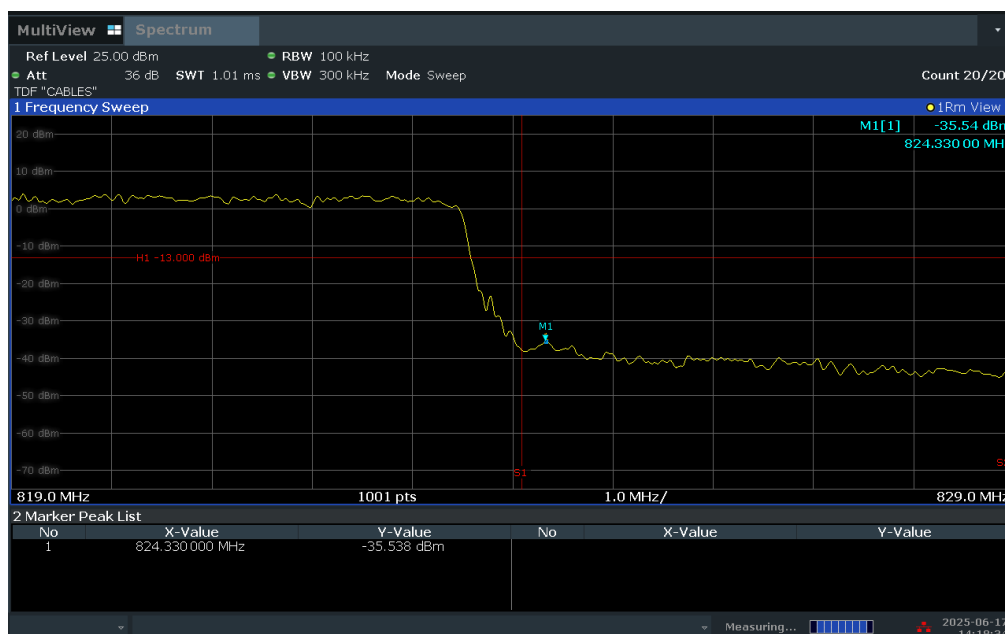
02:19:28 PM 06/17/2025

Plot 7-94. Extended Lower Band Edge Plot (LTE Band 26 – 10MHz QPSK – Low Channel)

FCC ID: BCGA3361		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 67 of 108

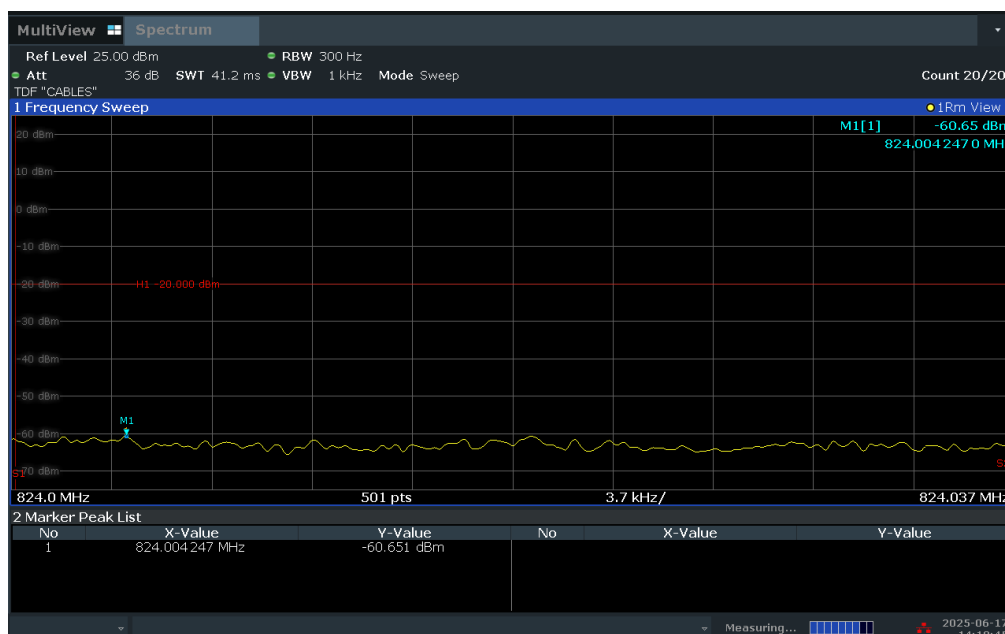
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02:18:35 PM 06/17/2025

Plot 7-95. Upper Band Edge Plot (LTE Band 26 – 10MHz QPSK – High Channel)



02:19:46 PM 06/17/2025

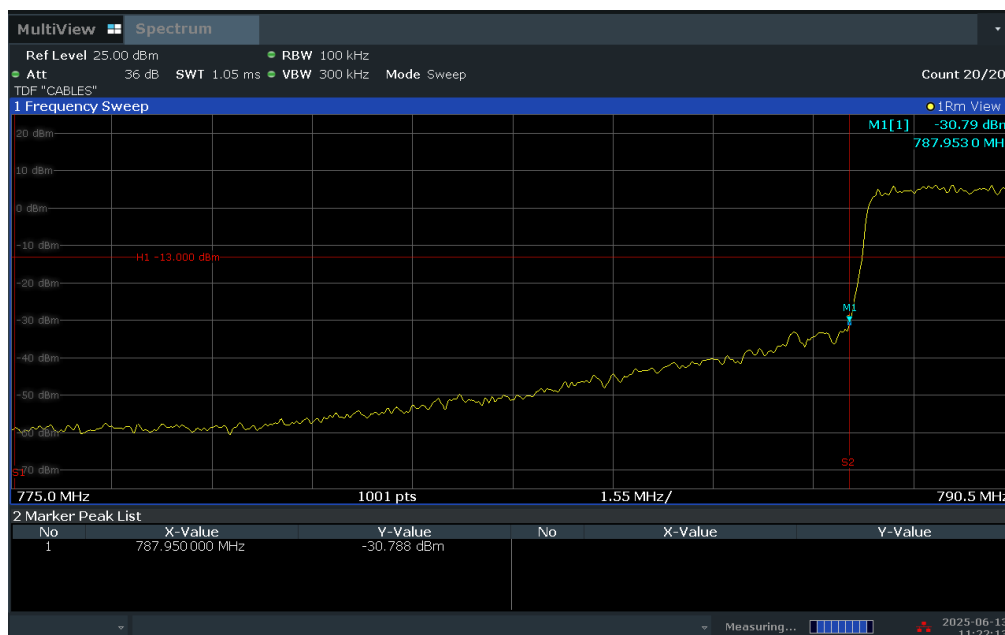
Plot 7-96. Extended Upper Band Edge Plot (LTE Band 26 – 10MHz QPSK – High Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 68 of 108

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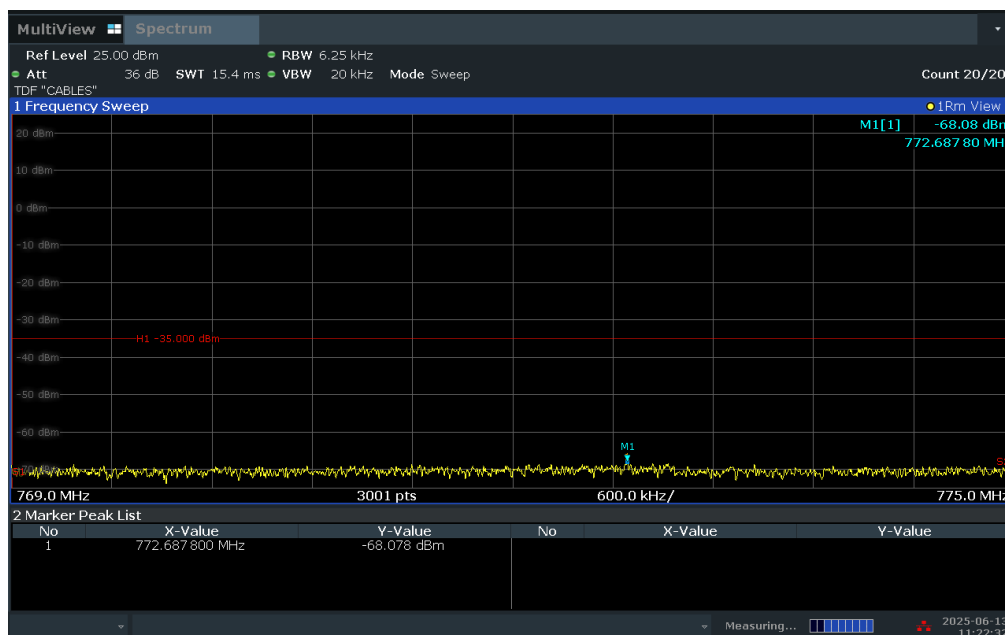
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LTE Band 14



11:22:14 AM 06/13/2025

Plot 7-97. Lower Band Edge Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)



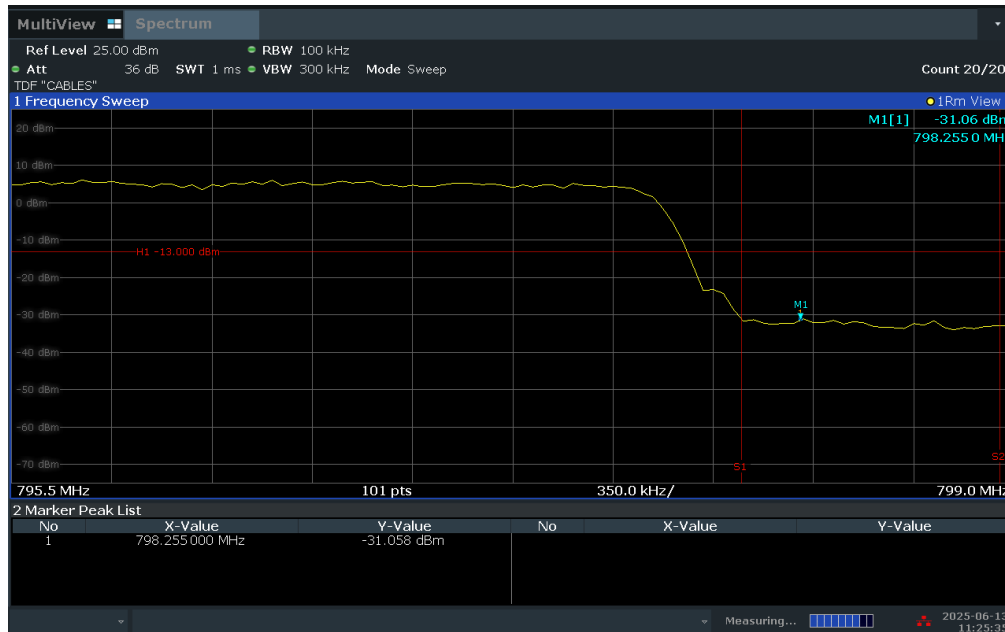
11:22:32 AM 06/13/2025

Plot 7-98. Lower Emission Mask Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 69 of 108

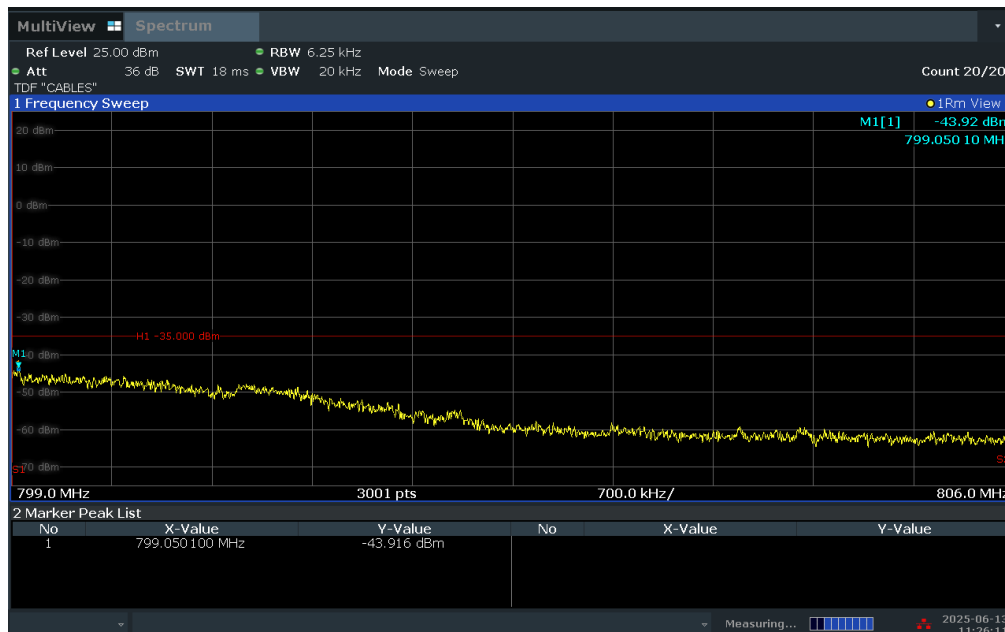
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11:25:36 AM 06/13/2025

Plot 7-99. Upper Band Edge Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)



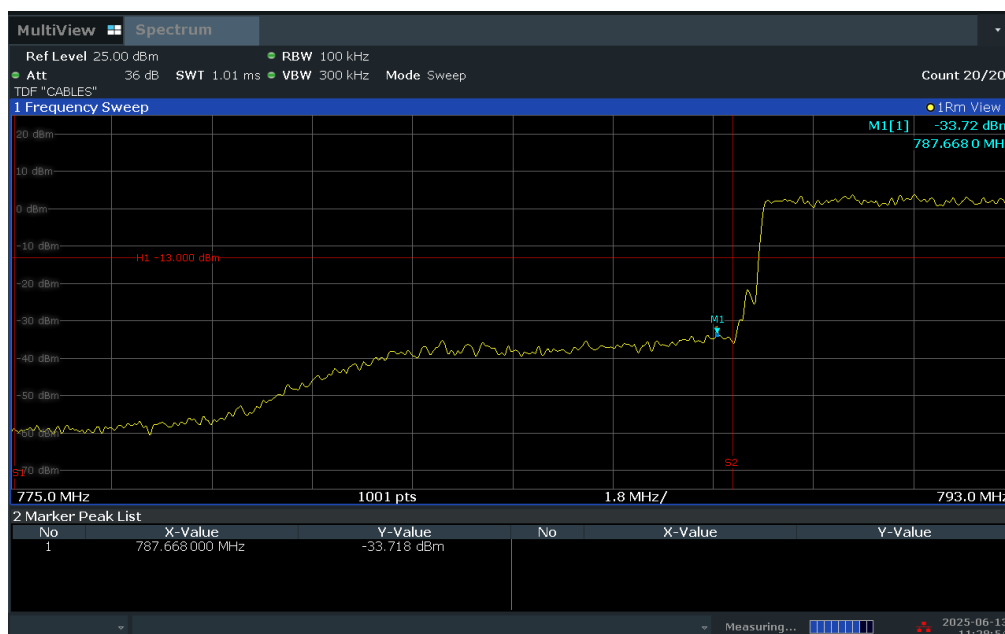
11:26:11 AM 06/13/2025

Plot 7-100. Upper Emission Mask Plot (LTE Band 14 - 5MHz QPSK – RB Size 25)

FCC ID: BCGA3361		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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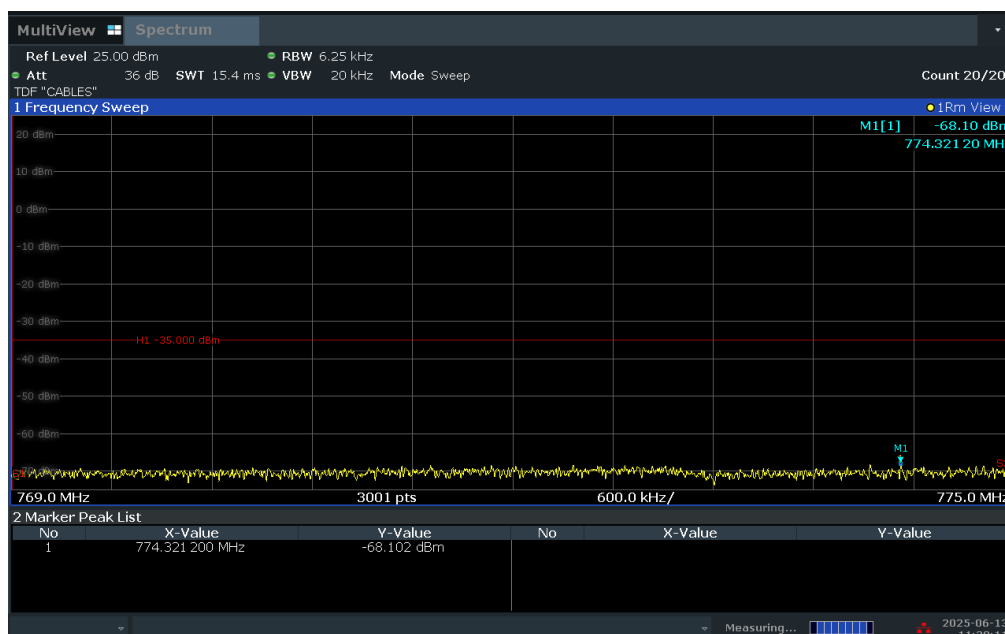
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11:28:54 AM 06/13/2025

Plot 7-101. Lower Band Edge Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)



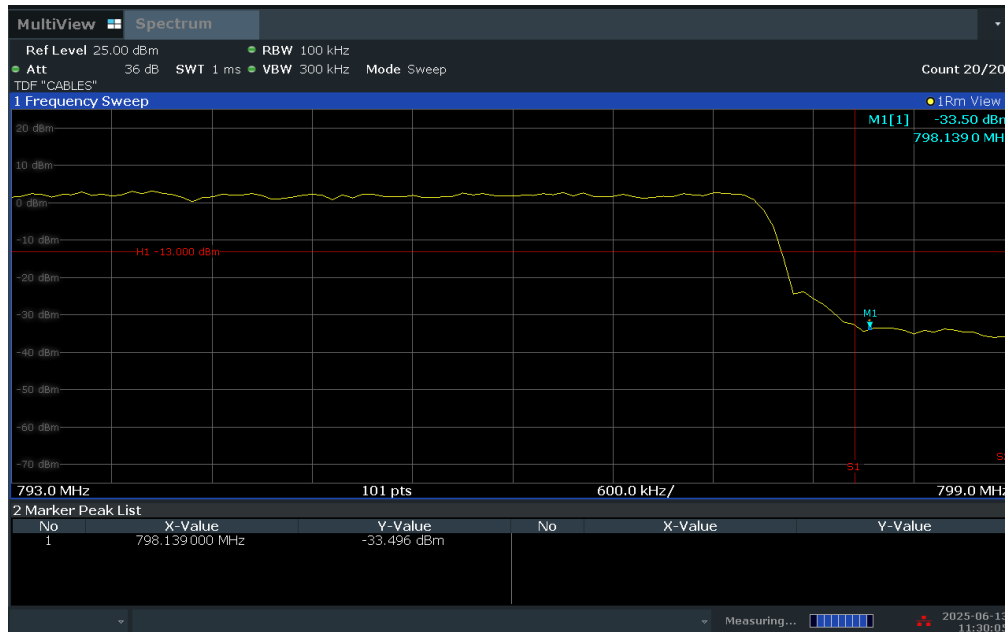
11:29:12 AM 06/13/2025

Plot 7-102. Lower Emission Mask Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 71 of 108

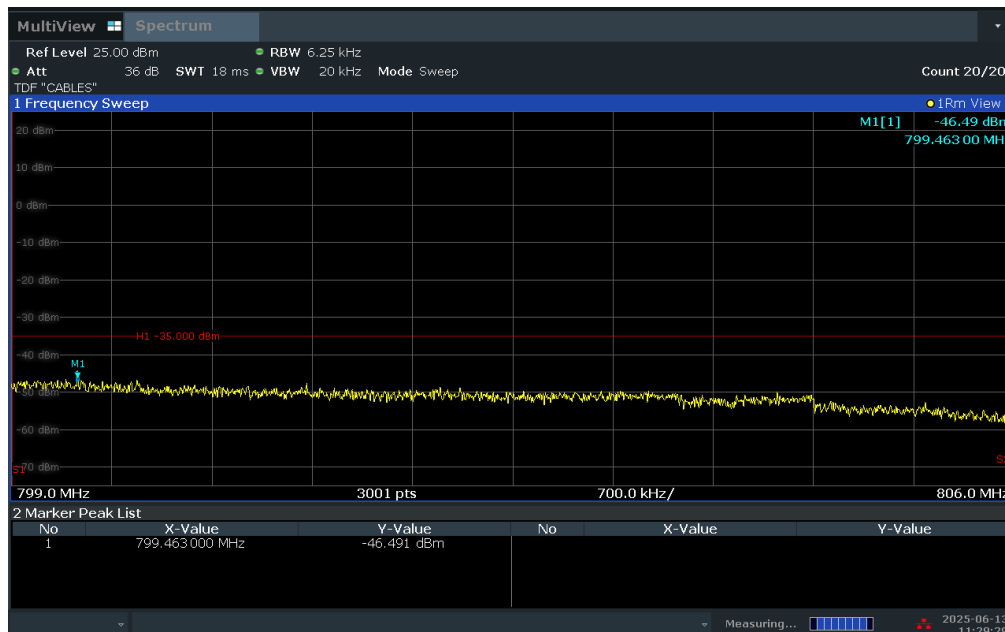
V2.2 09/07/2023

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11:30:05 AM 06/13/2025

Plot 7-103. Upper Band Edge Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)



11:29:30 AM 06/13/2025

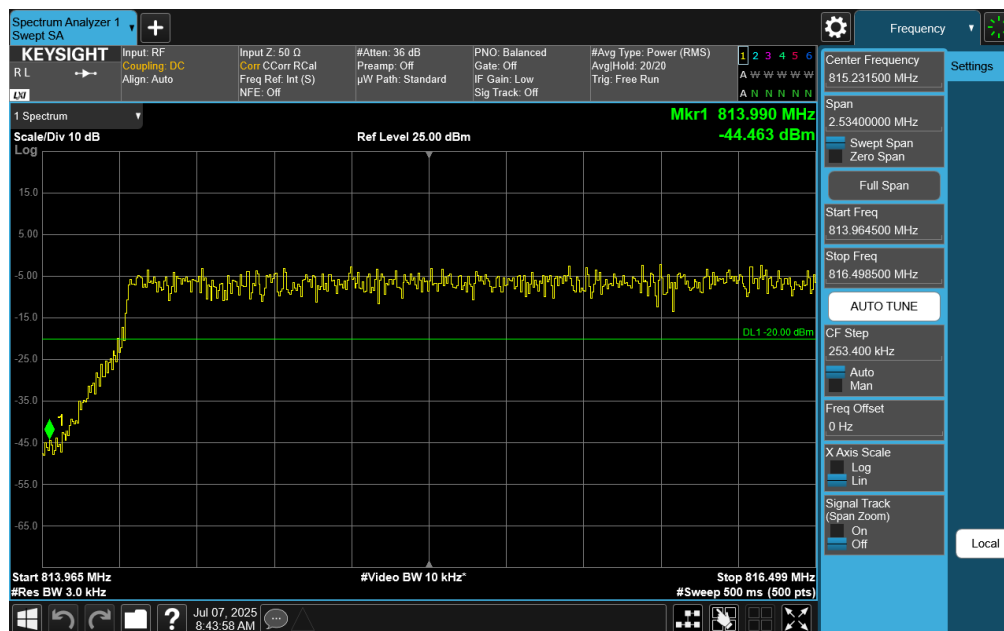
Plot 7-104. Upper Emission Mask Plot (LTE Band 14 - 10MHz QPSK – RB Size 50)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 72 of 108

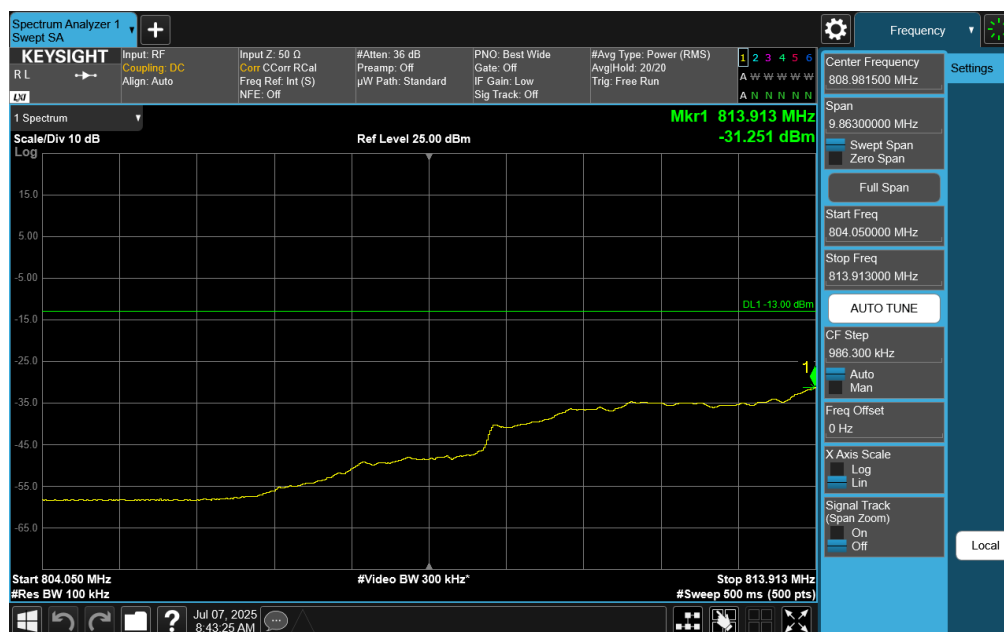
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NR Band n26



Plot 7-105. Lower Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – Low Channel)

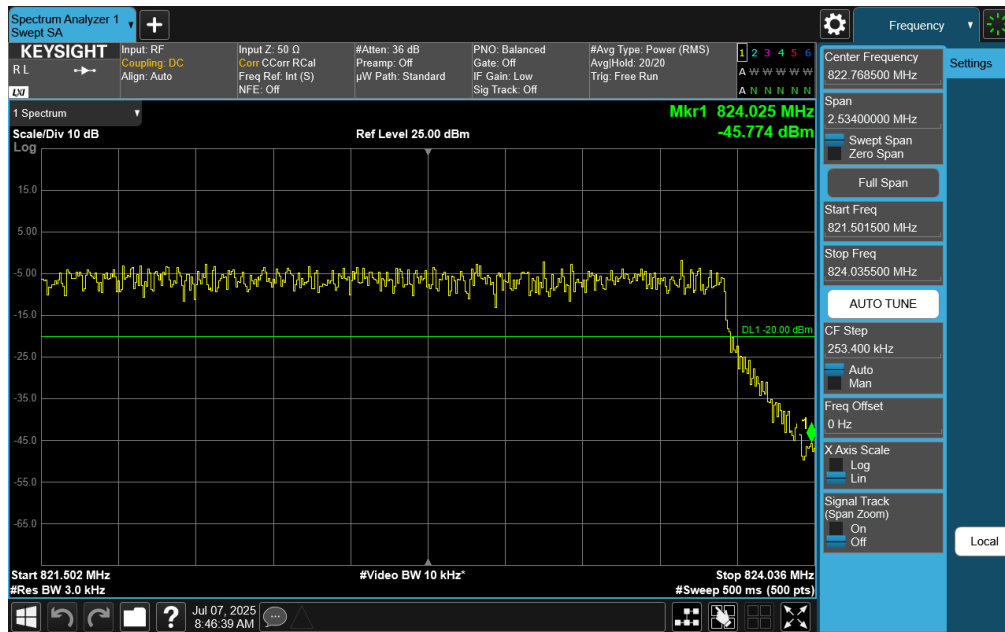


Plot 7-106. Extended Lower Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – Low Channel)

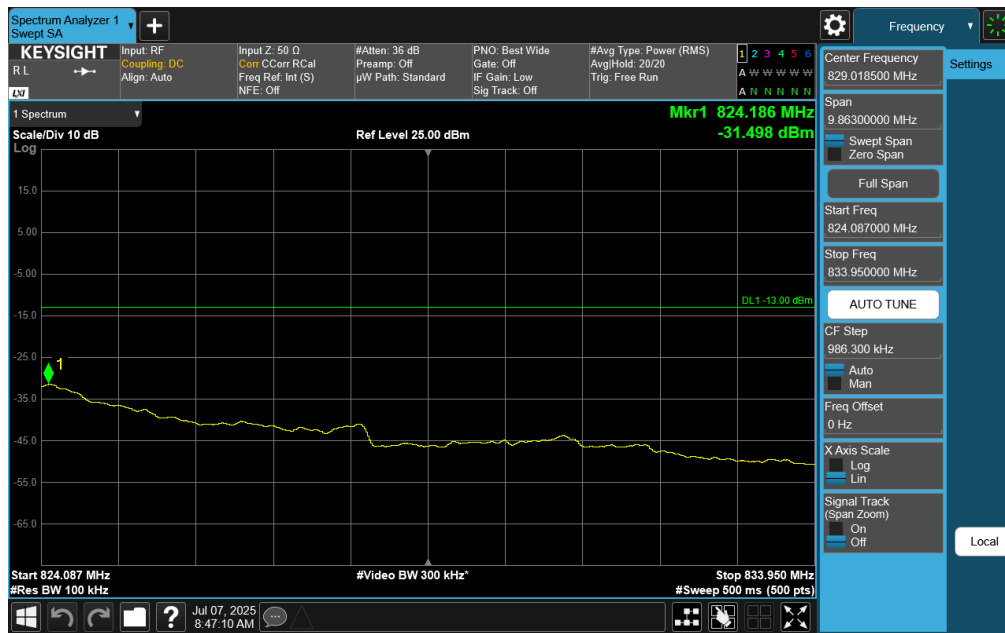
FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device
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Plot 7-107. Upper Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – High Channel)

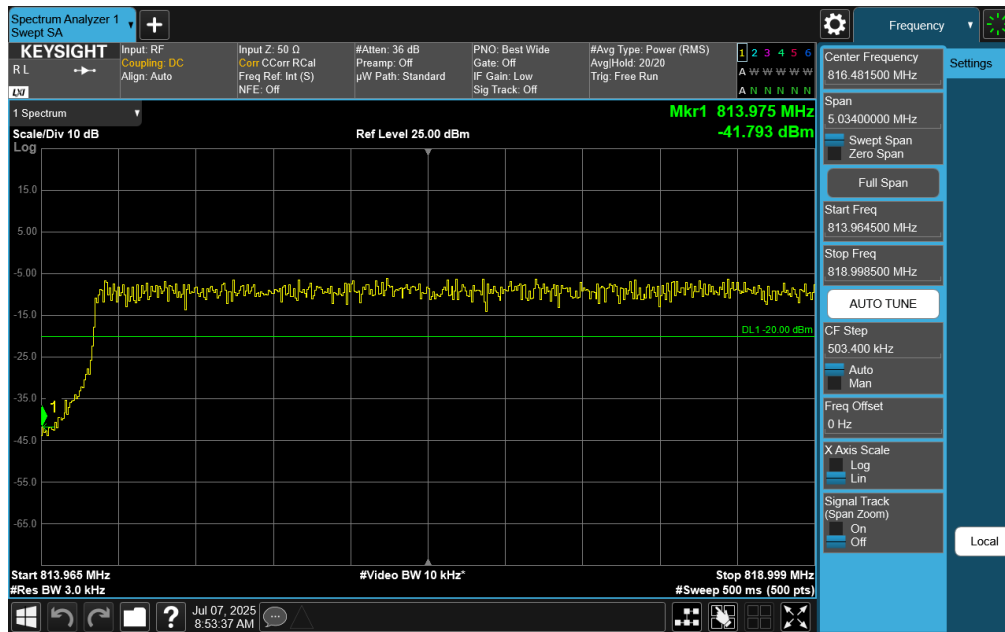


Plot 7-108. Extended Upper Band Edge Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK – High Channel)

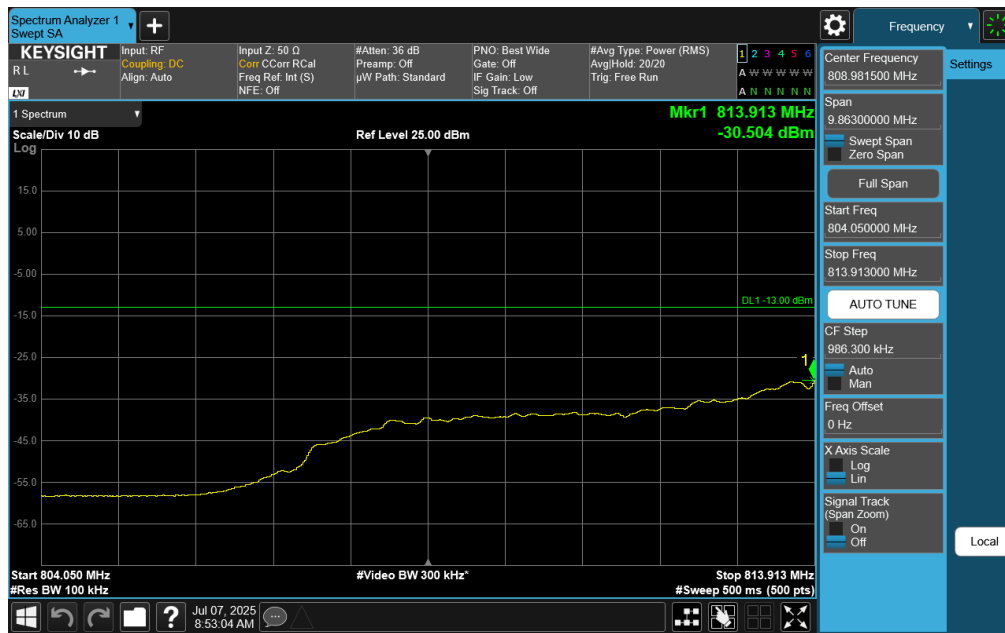
FCC ID: BCGA3361	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device	Page 74 of 108

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Plot 7-109. Lower Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – Low Channel)

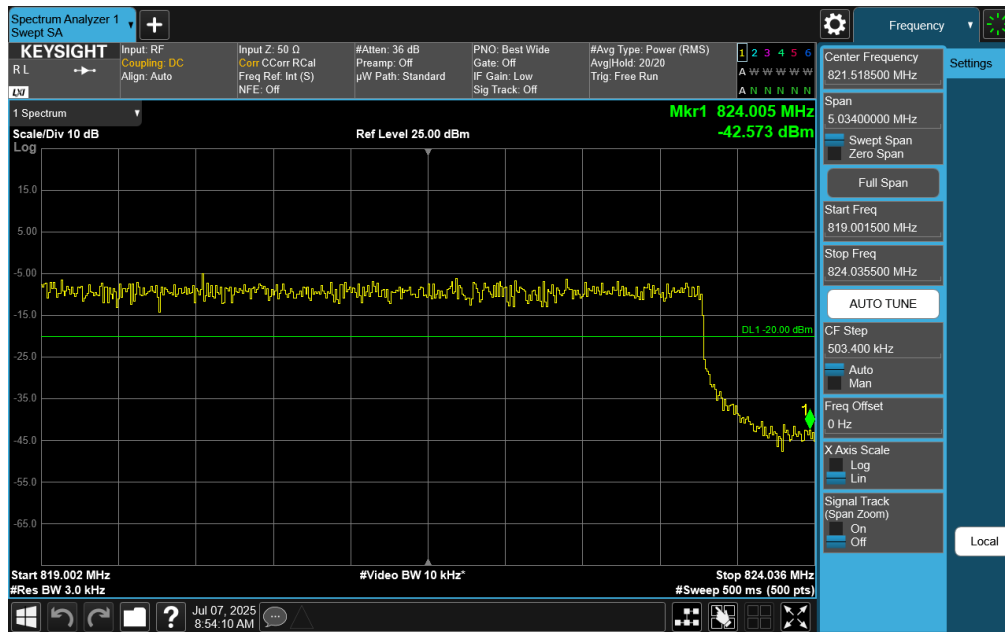


Plot 7-110. Extended Lower Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – Low Channel)

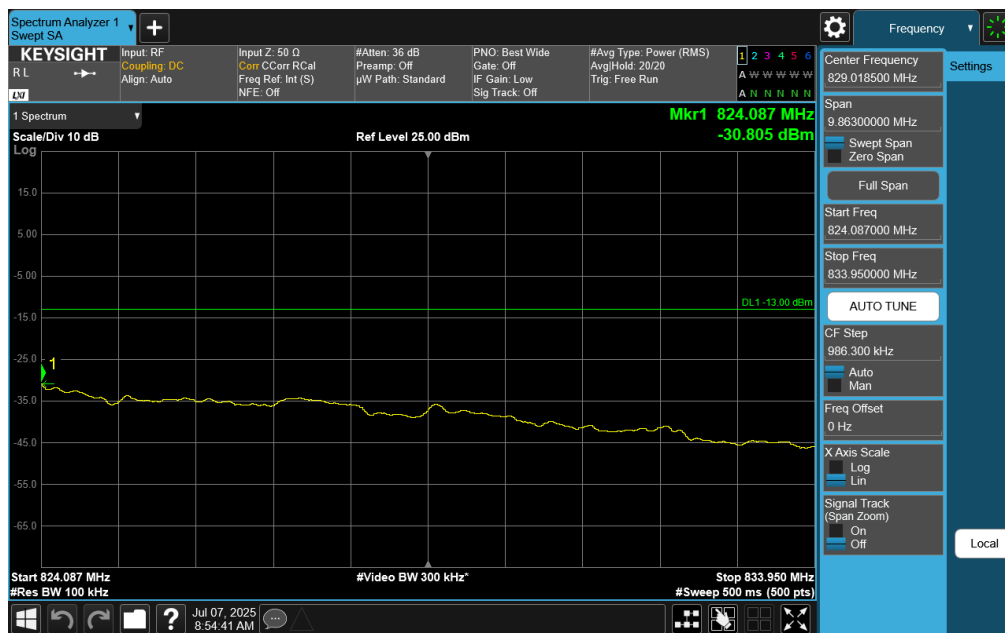
FCC ID: BCGA3361	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-111. Upper Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – High Channel)



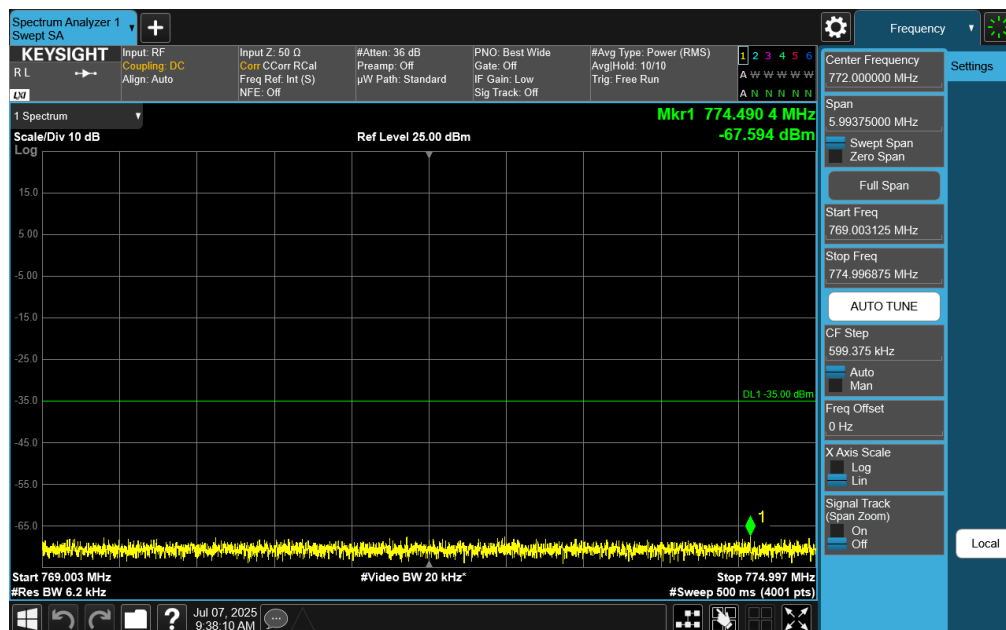
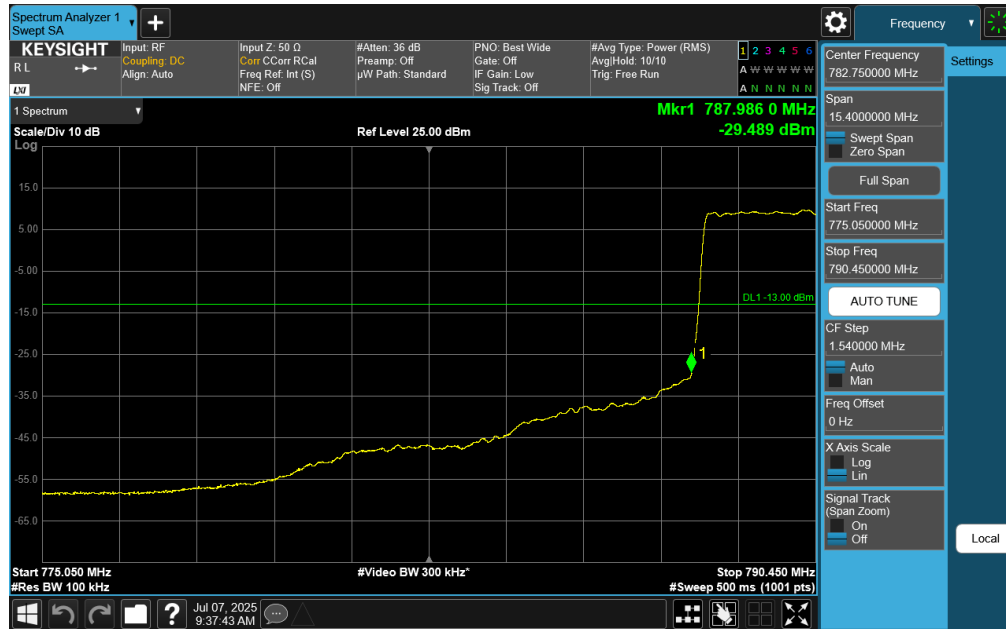
Plot 7-112. Extended Upper Band Edge Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK – High Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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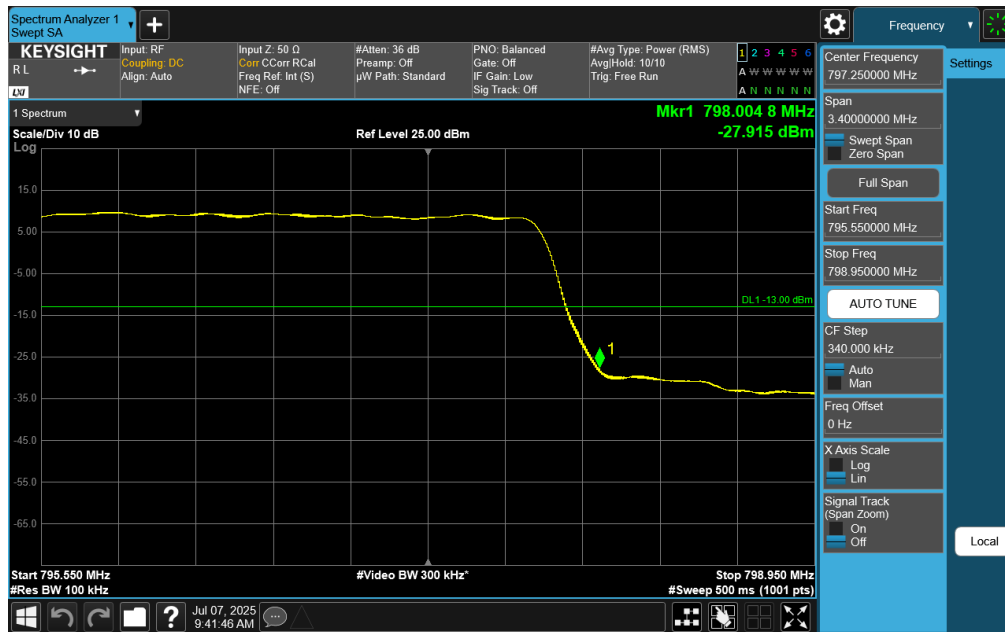
NR Band n14



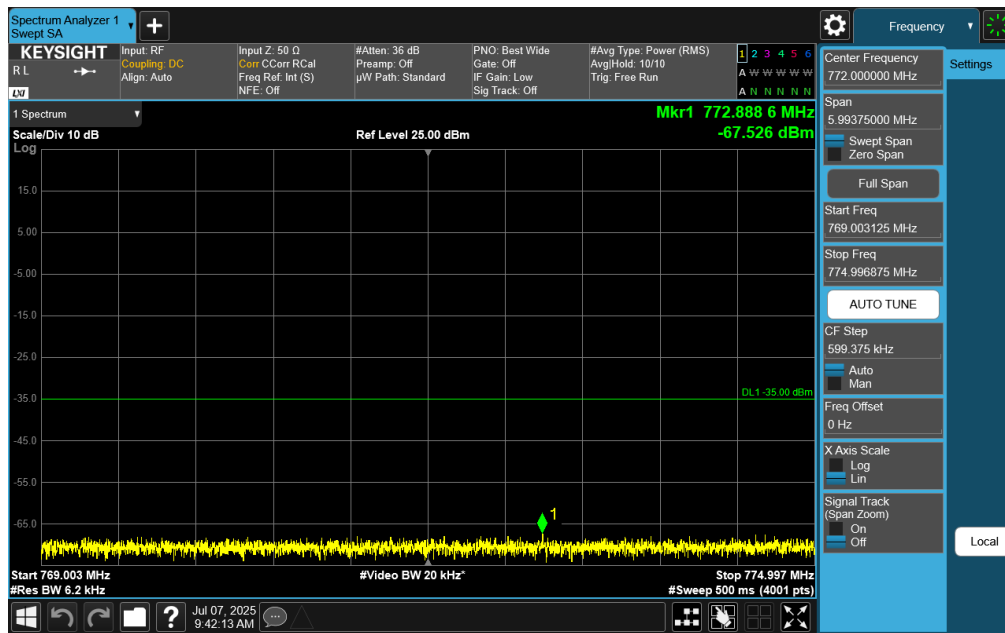
FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-115. Upper Band Edge Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK – RB Size 25)

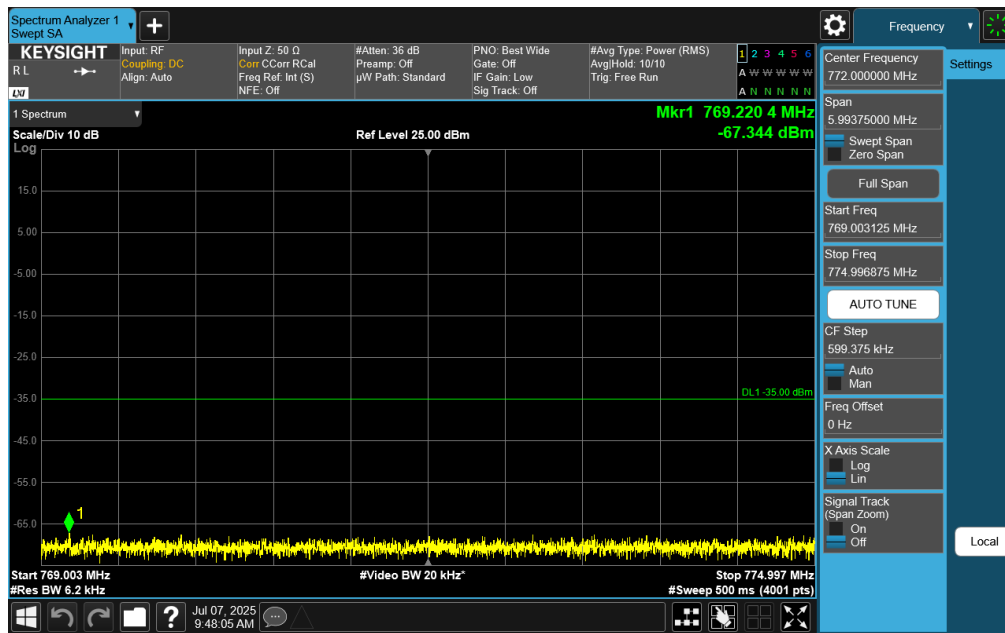
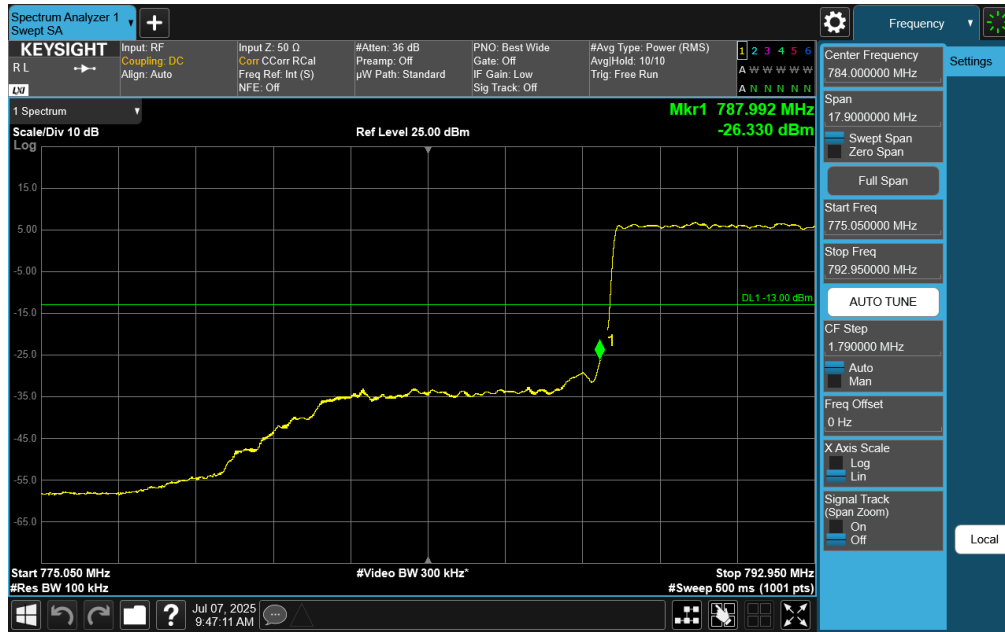


Plot 7-116. Upper Emission Mask Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK – RB Size 25)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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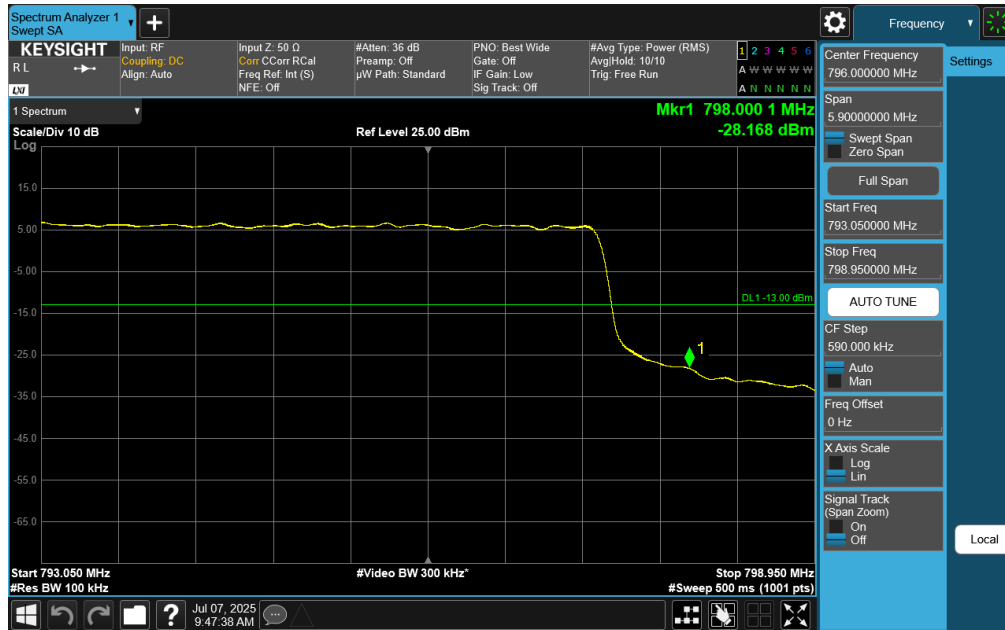
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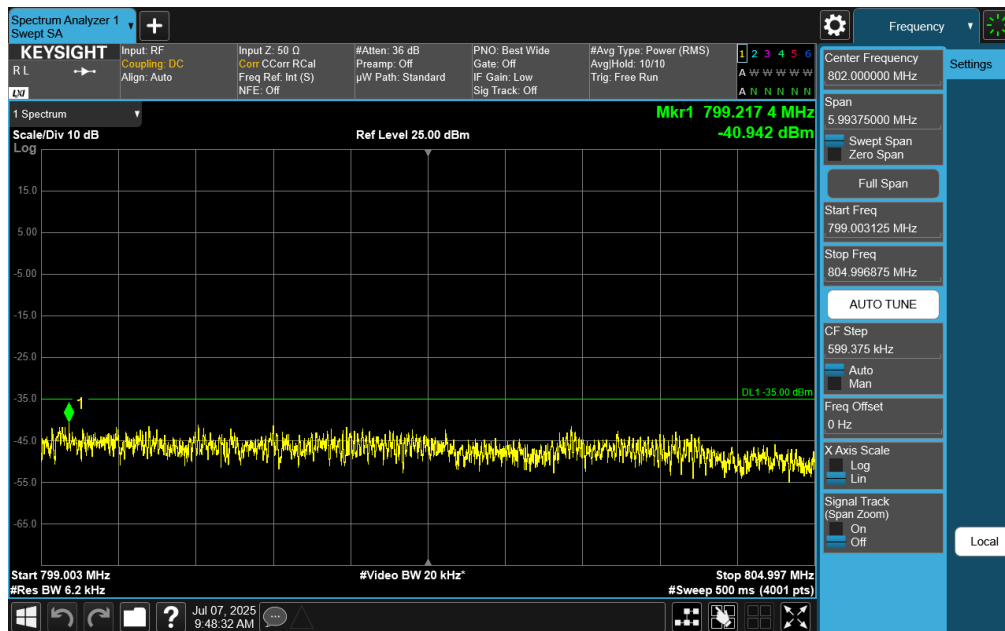
FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-119. Upper Band Edge Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)



Plot 7-120. Emission Mask Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK – RB Size 50)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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7.5 Conducted Power Output Data

\$2.1046 \$90.635

Test Overview

Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

Test Procedures Used

KDB 971168 D01 v03r01

Test Setup

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

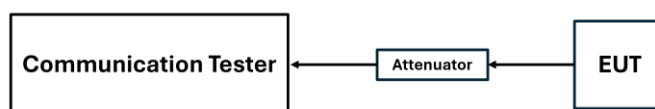


Figure 7-7. LTE Conducted Power Measurement Setup

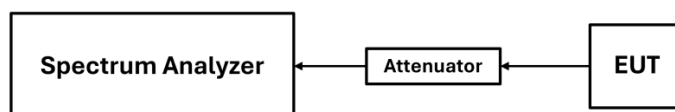


Figure 7-8. FR1 Conducted Power Measurement Setup

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.
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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7.5.1 Antenna 3 – Conducted Power

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	26697	814.7	1 / 3	25.51	0.356	50.00	-24.49
		26740	819.0	1 / 0	25.45	0.351	50.00	-24.55
		26783	823.3	1 / 3	25.48	0.354	50.00	-24.52
	16-QAM	26697	814.7	1 / 5	24.60	0.288	50.00	-25.40
	64-QAM	26697	814.7	1 / 0	23.53	0.226	50.00	-26.47
	256-QAM	26783	823.3	6 / 0	20.54	0.113	50.00	-29.46
3 MHz	QPSK	26705	815.5	1 / 14	25.50	0.355	50.00	-24.50
		26740	819.0	1 / 7	25.31	0.340	50.00	-24.69
		26775	822.5	1 / 7	25.36	0.343	50.00	-24.64
	16-QAM	26775	822.5	1 / 7	24.59	0.288	50.00	-25.41
	64-QAM	26775	822.5	1 / 7	23.60	0.229	50.00	-26.40
	256-QAM	26775	822.5	15 / 0	20.47	0.111	50.00	-29.53
5 MHz	QPSK	26715	816.5	1 / 0	25.21	0.332	50.00	-24.79
		26740	819.0	1 / 24	25.32	0.340	50.00	-24.68
		26765	821.5	1 / 12	25.42	0.348	50.00	-24.58
	16-QAM	26765	821.5	1 / 0	24.41	0.276	50.00	-25.59
	64-QAM	26765	821.5	1 / 0	23.52	0.225	50.00	-26.48
	256-QAM	26765	821.5	25 / 0	20.56	0.114	50.00	-29.44
10 MHz	QPSK	26740	819.0	1 / 0	25.49	0.354	50.00	-24.51
	16-QAM	26740	819.0	1 / 0	24.39	0.275	50.00	-25.61
	64-QAM	26740	819.0	1 / 49	23.37	0.217	50.00	-26.63
	256-QAM	26740	819.0	50 / 0	20.55	0.114	50.00	-29.45

Table 7-2. Conducted Output Data (LTE Band 26)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	163300	816.5	25 / 0	25.44	0.350	50.00	-24.56
		163800	819.0	25 / 0	25.45	0.351	50.00	-24.55
		164300	821.5	25 / 0	25.43	0.349	50.00	-24.57
	QPSK	163300	816.5	1 / 23	25.49	0.354	50.00	-24.51
		163800	819.0	1 / 23	25.44	0.350	50.00	-24.56
		164300	821.5	1 / 12	25.51	0.355	50.00	-24.49
	16-QAM	164300	821.5	1 / 23	24.30	0.269	50.00	-25.70
	64-QAM	163800	819.0	25 / 0	23.77	0.238	50.00	-26.23
	256-QAM	163800	819.0	25 / 0	22.15	0.164	50.00	-27.85
	$\pi/2$ BPSK	163800	819.0	50 / 0	25.40	0.347	50.00	-24.60
10 MHz	QPSK	163800	819.0	1 / 50	25.44	0.350	50.00	-24.56
	16-QAM	163800	819.0	1 / 25	24.52	0.283	50.00	-25.48
	64-QAM	163800	819.0	50 / 0	23.73	0.236	50.00	-26.27
	256-QAM	163800	819.0	50 / 0	21.85	0.153	50.00	-28.15

Table 7-3. Conducted Output Data (NR Band n26)

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7.5.2 Antenna 1 – Conducted Power

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	26697	814.7	1 / 5	24.47	0.280	50.00	-25.53
		26740	819.0	1 / 3	24.39	0.275	50.00	-25.61
		26783	823.3	1 / 0	24.49	0.281	50.00	-25.51
	16-QAM	26783	823.3	1 / 0	23.56	0.227	50.00	-26.44
	64-QAM	26783	823.3	1 / 3	22.59	0.182	50.00	-27.41
	256-QAM	26697	814.7	6 / 0	19.62	0.092	50.00	-30.38
3 MHz	QPSK	26705	815.5	1 / 0	24.49	0.281	50.00	-25.51
		26740	819.0	1 / 0	24.41	0.276	50.00	-25.59
		26775	822.5	1 / 14	24.58	0.287	50.00	-25.42
	16-QAM	26775	822.5	1 / 7	23.54	0.226	50.00	-26.46
	64-QAM	26775	822.5	1 / 0	22.52	0.179	50.00	-27.48
	256-QAM	26775	822.5	15 / 0	19.59	0.091	50.00	-30.41
5 MHz	QPSK	26715	816.5	1 / 12	24.48	0.280	50.00	-25.52
		26740	819.0	1 / 24	24.41	0.276	50.00	-25.59
		26765	821.5	1 / 12	24.35	0.272	50.00	-25.65
	16-QAM	26765	821.5	1 / 12	23.53	0.226	50.00	-26.47
	64-QAM	26765	821.5	1 / 12	22.48	0.177	50.00	-27.52
	256-QAM	26715	816.5	25 / 0	19.71	0.094	50.00	-30.29
10 MHz	QPSK	26740	819.0	1 / 49	24.39	0.275	50.00	-25.61
	16-QAM	26740	819.0	1 / 25	23.58	0.228	50.00	-26.42
	64-QAM	26740	819.0	1 / 49	22.39	0.173	50.00	-27.61
	256-QAM	26740	819.0	50 / 0	19.69	0.093	50.00	-30.31

Table 7-4. Conducted Output Data (LTE Band 26)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	163300	816.5	1 / 1	24.55	0.285	50.00	-25.45
		163800	819.0	25 / 0	24.46	0.279	50.00	-25.54
		164300	821.5	1 / 1	24.39	0.275	50.00	-25.61
	QPSK	163300	816.5	1 / 1	24.49	0.281	50.00	-25.51
		163800	819.0	1 / 1	24.45	0.278	50.00	-25.55
		164300	821.5	1 / 1	24.52	0.283	50.00	-25.48
	16-QAM	164300	821.5	1 / 23	23.32	0.215	50.00	-26.68
	64-QAM	163800	819.0	25 / 0	22.53	0.179	50.00	-27.47
10 MHz	256-QAM	163800	819.0	25 / 0	20.48	0.112	50.00	-29.52
	$\pi/2$ BPSK	163800	819.0	1 / 1	24.48	0.280	50.00	-25.52
	QPSK	163800	819.0	1 / 25	24.56	0.286	50.00	-25.44
	16-QAM	163800	819.0	1 / 25	23.20	0.209	50.00	-26.80
	64-QAM	163800	819.0	50 / 0	22.43	0.175	50.00	-27.57
	256-QAM	163800	819.0	50 / 0	20.47	0.111	50.00	-29.53

Table 7-5. Conducted Output Data (NR Band n26)

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7.6 Radiated Power (ERP)

§90.542(a)(7)

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

Test Settings

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

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

Where:

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

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

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

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

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Test Setup

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

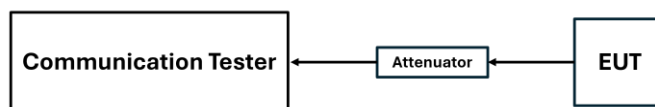


Figure 7-9. LTE ERP Measurement Setup

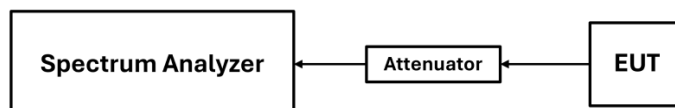


Figure 7-10. FR1 ERP Measurement Setup

Test Notes

1. The worst case emissions are reported with the modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. The Ant. Gains (GT) are listed in dBi.
5. 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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7.6.1 Antenna 3 - ERP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	790.5	-1.70	1 / 24	25.64	21.79	0.151	34.77	-12.98
		793.0	-1.70	1 / 12	25.65	21.80	0.151	34.77	-12.97
		795.5	-1.70	1 / 12	25.33	21.48	0.141	34.77	-13.29
	16-QAM	790.5	-1.70	1 / 12	24.97	21.12	0.129	34.77	-13.65
	64-QAM	790.5	-1.70	1 / 0	23.71	19.86	0.097	34.77	-14.91
	256-QAM	790.5	-1.70	25 / 0	20.98	17.13	0.052	34.77	-17.64
10 MHz	QPSK	793.0	-1.70	1 / 0	25.44	21.59	0.144	34.77	-13.18
	16-QAM	793.0	-1.70	1 / 0	24.80	20.95	0.125	34.77	-13.82
	64-QAM	793.0	-1.70	1 / 0	23.88	20.03	0.101	34.77	-14.74
	256-QAM	793.0	-1.70	50 / 0	20.95	17.10	0.051	34.77	-17.67

Table 7-6. Antenna 3 ERP Data (LTE Band 14)

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	790.5	-1.70	25 / 0	25.44	21.59	0.144	34.77	-13.18
		793.0	-1.70	1 / 12	25.43	21.58	0.144	34.77	-13.19
		795.5	-1.70	1 / 1	25.45	21.60	0.145	34.77	-13.17
	QPSK	790.5	-1.70	1 / 12	25.57	21.72	0.149	34.77	-13.05
		793.0	-1.70	1 / 1	25.50	21.65	0.146	34.77	-13.12
		795.5	-1.70	1 / 1	25.44	21.59	0.144	34.77	-13.18
	16-QAM	790.5	-1.70	1 / 23	24.33	20.48	0.112	34.77	-14.29
	64-QAM	790.5	-1.70	25 / 0	23.73	19.88	0.097	34.77	-14.89
10 MHz	256-QAM	790.5	-1.70	25 / 0	21.69	17.84	0.061	34.77	-16.94
	$\pi/2$ BPSK	793.0	-1.70	1 / 1	25.39	21.54	0.142	34.77	-13.24
	QPSK	793.0	-1.70	1 / 25	25.50	21.65	0.146	34.77	-13.12
	16-QAM	793.0	-1.70	1 / 50	24.51	20.66	0.116	34.77	-14.11
	64-QAM	793.0	-1.70	50 / 0	23.74	19.89	0.098	34.77	-14.88
	256-QAM	793.0	-1.70	50 / 0	21.73	17.88	0.061	34.77	-16.89

Table 7-7. Antenna 3 ERP Data (NR Band n14)

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Test Report S/N: 1C2504170041-12.BCG	Test Dates: 5/9/2025 - 8/6/2025	EUT Type: Tablet Device		Page 86 of 108

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7.6.2 Antenna 1 - ERP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	790.5	-3.10	1 / 12	24.52	19.27	0.085	34.77	-15.50
		793.0	-3.10	1 / 12	24.62	19.37	0.086	34.77	-15.40
		795.5	-3.10	1 / 24	24.26	19.01	0.080	34.77	-15.76
	16-QAM	790.5	-3.10	1 / 0	24.00	18.75	0.075	34.77	-16.02
	64-QAM	793.0	-3.10	1 / 12	22.75	17.50	0.056	34.77	-17.28
	256-QAM	790.5	-3.10	25 / 0	19.96	14.71	0.030	34.77	-20.06
10 MHz	QPSK	793.0	-3.10	1 / 49	24.39	19.14	0.082	34.77	-15.63
	16-QAM	793.0	-3.10	1 / 49	23.85	18.60	0.073	34.77	-16.17
	64-QAM	793.0	-3.10	1 / 49	22.68	17.43	0.055	34.77	-17.34
	256-QAM	793.0	-3.10	50 / 0	19.90	14.65	0.029	34.77	-20.12

Table 7-8. Antenna 1 ERP Data (LTE Band 14)

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	790.5	-3.10	25 / 0	24.51	19.26	0.084	34.77	-15.51
		793.0	-3.10	1 / 23	24.52	19.27	0.085	34.77	-15.50
		795.5	-3.10	1 / 23	24.51	19.26	0.084	34.77	-15.51
	QPSK	790.5	-3.10	1 / 1	24.46	19.21	0.083	34.77	-15.56
		793.0	-3.10	1 / 12	24.42	19.17	0.083	34.77	-15.60
		795.5	-3.10	1 / 23	24.40	19.15	0.082	34.77	-15.62
10 MHz	16-QAM	793.0	-3.10	1 / 23	23.27	18.02	0.063	34.77	-16.75
	64-QAM	795.5	-3.10	25 / 0	22.40	17.15	0.052	34.77	-17.62
	256-QAM	793.0	-3.10	25 / 0	20.41	15.16	0.033	34.77	-19.61
	$\pi/2$ BPSK	793.0	-3.10	1 / 50	24.45	19.20	0.083	34.77	-15.58
	QPSK	793.0	-3.10	1 / 1	24.45	19.20	0.083	34.77	-15.57
	16-QAM	793.0	-3.10	1 / 50	23.23	17.98	0.063	34.77	-16.79
	64-QAM	793.0	-3.10	50 / 0	22.31	17.06	0.051	34.77	-17.71
	256-QAM	793.0	-3.10	50 / 0	20.38	15.13	0.033	34.77	-19.64

Table 7-9. Antenna 1 ERP Data (NR Band n14)

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7.7 Radiated Spurious Emissions

§2.1053 §90.691(a) §90.543(e) §90.543(f)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26-2015

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.

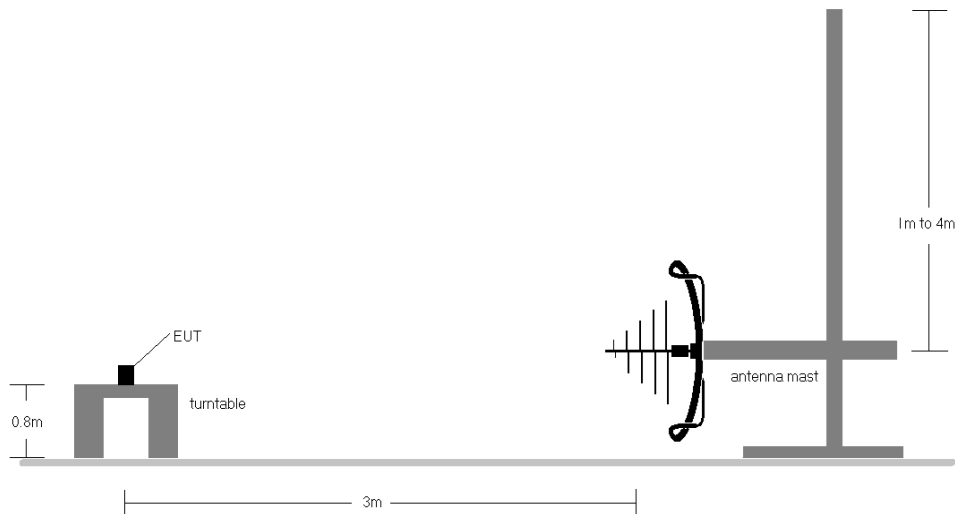


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

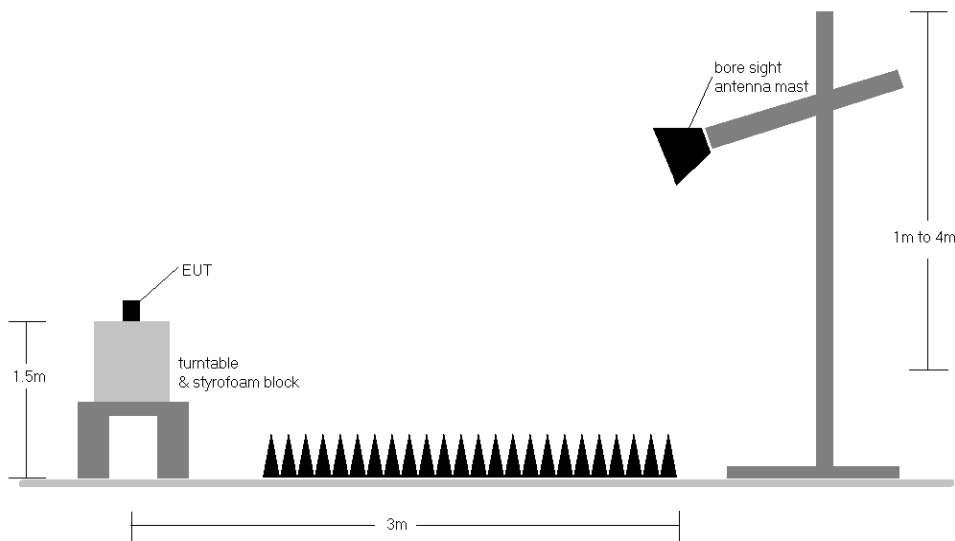


Figure 7-12. Test Instrument & Measurement Setup >1 GHz

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Test Notes

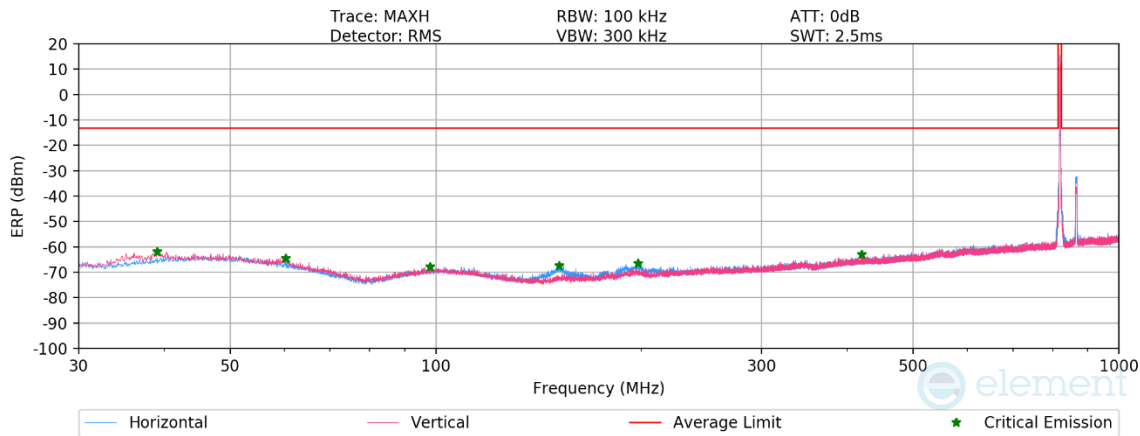
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. The device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
3. This unit was tested with its standard battery.
4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
5. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
6. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
7. Pre-scan plots have been reported for the highest power antenna while measurements have been reported for all antennas.

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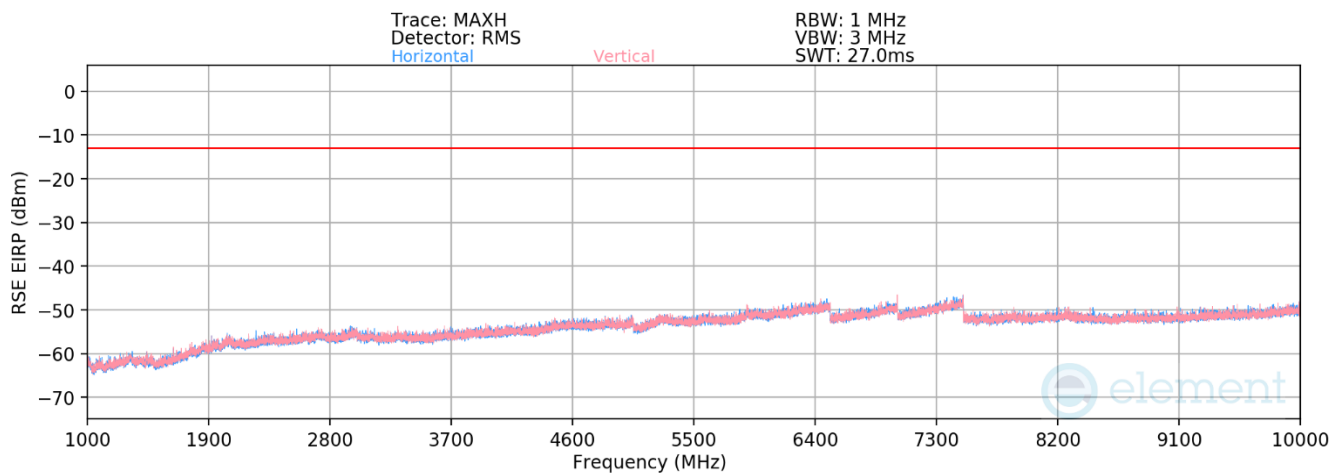
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7.7.1 Antenna 3 – Radiated Spurious Emission Measurements

LTE Band 26



Plot 7-121. Antenna 3 Radiated Spurious Plot Below 1GHz (LTE Band 26)



Plot 7-122. Antenna 3 Radiated Spurious Plot Above 1GHz (LTE Band 26)

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Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-76.95	-2.09	27.96	-67.30	-13.00	-54.30
2449.5	V	-	-	-77.92	2.62	31.70	-63.56	-13.00	-50.56
3266.0	V	-	-	-77.95	4.04	33.09	-62.17	-13.00	-49.17

Table 7-10. Antenna 3 Radiated Spurious Data (LTE Band 26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	V	-	-	-77.12	-2.09	27.79	-67.46	-13.00	-54.46
2457.0	H	-	-	-78.09	2.62	31.53	-63.72	-13.00	-50.72
3276.0	H	-	-	-78.27	4.25	32.98	-62.27	-13.00	-49.27

Table 7-11. Antenna 3 Radiated Spurious Data (LTE Band 26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

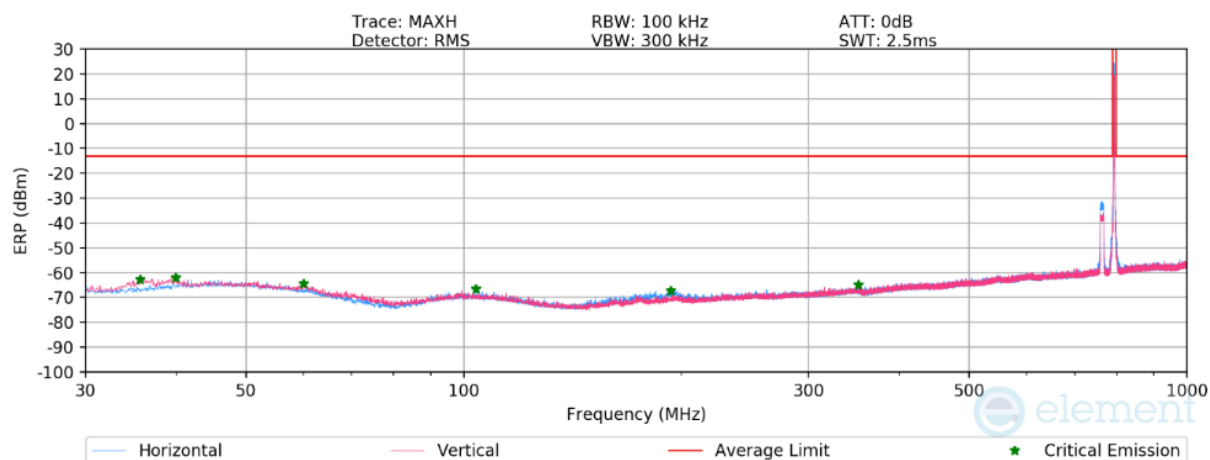
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-76.88	-2.09	28.03	-67.23	-13.00	-54.23
2464.5	V	-	-	-77.94	2.40	31.46	-63.80	-13.00	-50.80
3286.0	V	-	-	-78.17	4.47	33.30	-61.95	-13.00	-48.95

Table 7-12. Antenna 3 Radiated Spurious Data (LTE Band 26 – High Channel)

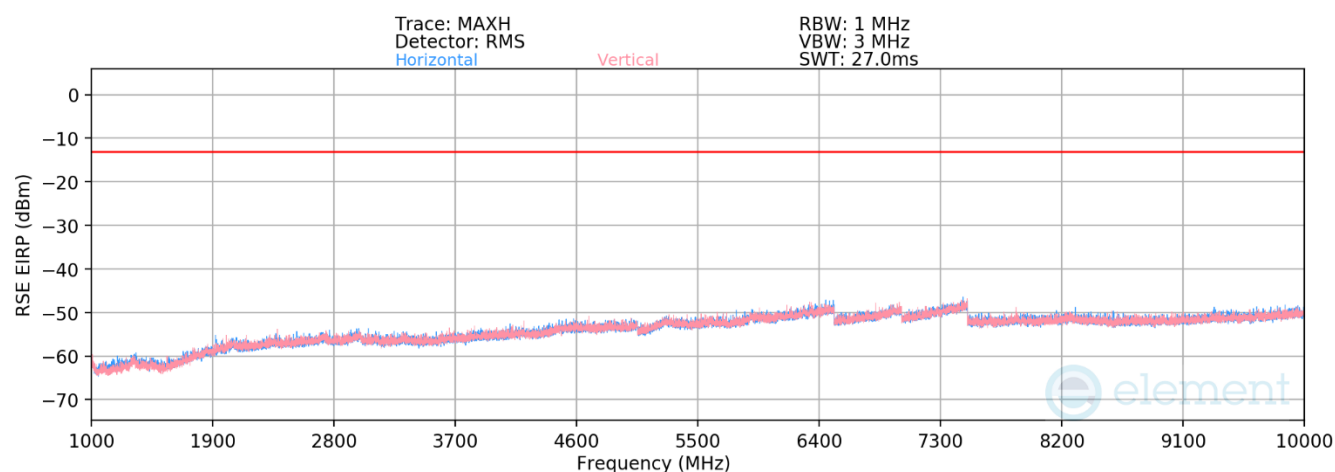
FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 14



Plot 7-123. Antenna 3 Radiated Spurious Plot Below 1GHz (LTE Band 14)



Plot 7-124. Antenna 3 Radiated Spurious Plot Above 1GHz (LTE Band 14)

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Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	V	-	-	-77.37	-2.21	27.42	-67.84	-40.00	-27.84
2371.5	V	-	-	-77.99	2.91	31.91	-63.34	-13.00	-50.34
3162.0	V	-	-	-78.43	4.02	32.59	-62.67	-13.00	-49.67

Table 7-13. Antenna 3 Radiated Spurious Data (LTE Band 14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	V	-	-	-77.88	-1.97	27.15	-68.10	-40.00	-28.10
2379.0	V	-	-	-77.99	2.90	31.91	-63.35	-13.00	-50.35
3172.0	H	-	-	-78.50	4.01	32.51	-62.74	-13.00	-49.74

Table 7-14. Antenna 3 Radiated Spurious Data (LTE Band 14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

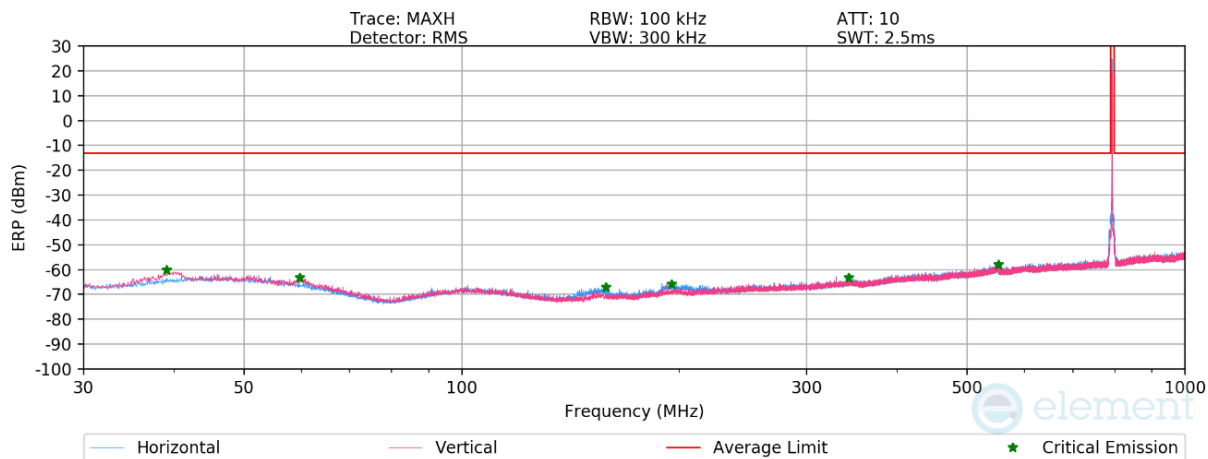
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	V	-	-	-77.51	-2.35	27.14	-68.12	-40.00	-28.12
2386.5	V	-	-	-77.87	2.76	31.89	-63.37	-13.00	-50.37
3182.0	V	-	-	-78.46	4.15	32.69	-62.57	-13.00	-49.57

Table 7-15. Antenna 3 Radiated Spurious Data (LTE Band 14 – High Channel)

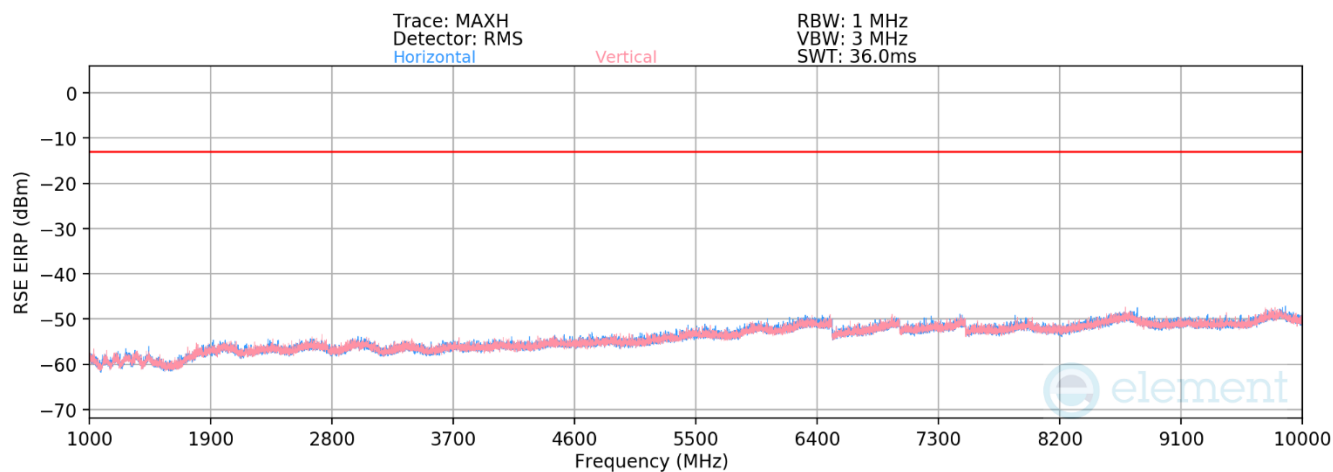
FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n14



Plot 7-125. Antenna 3 Radiated Spurious Plot Below 1GHz (NR Band n14)



Plot 7-126. Antenna 3 Radiated Spurious Plot Above 1GHz (NR Band n14)

FCC ID: BCGA3361		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	H	-	-	-72.19	-5.19	29.61	-65.64	-40.00	-25.64
2371.5	V	-	-	-73.65	-0.14	33.21	-62.05	-13.00	-49.05
3162.0	V	-	-	-75.82	1.85	33.03	-62.23	-13.00	-49.23

Table 7-16. Antenna 3 Radiated Spurious Data (NR Band n14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	H	-	-	-72.35	-5.36	29.28	-65.97	-40.00	-25.97
2379.0	H	-	-	-74.07	0.06	32.99	-62.27	-13.00	-49.27
3172.0	H	-	-	-75.54	1.12	32.58	-62.68	-13.00	-49.68

Table 7-17. Antenna 3 Radiated Spurious Data (NR Band n14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

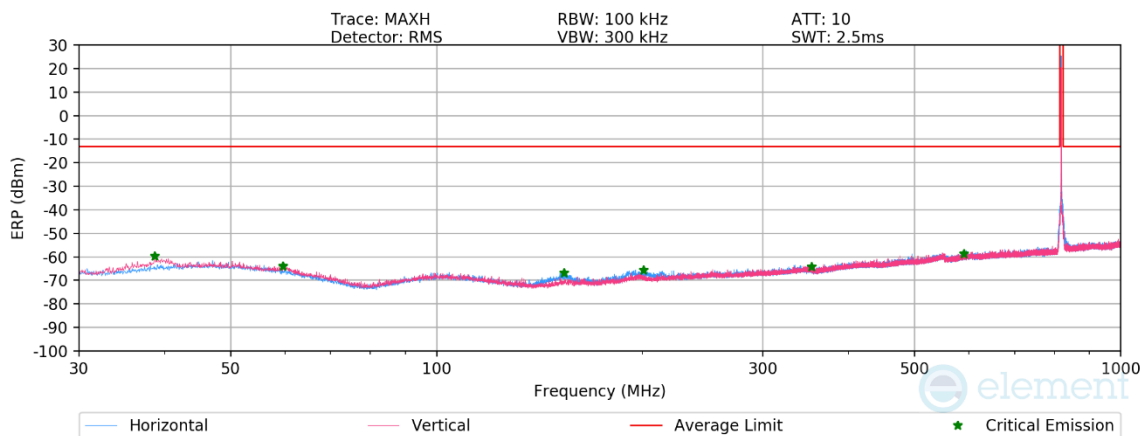
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-72.51	-5.26	29.24	-66.02	-40.00	-26.02
2386.5	H	-	-	-74.09	0.02	32.93	-62.33	-13.00	-49.33
3182.0	V	-	-	-75.53	1.19	32.66	-62.60	-13.00	-49.60

Table 7-18. Antenna 3 Radiated Spurious Data (NR Band n14 – High Channel)

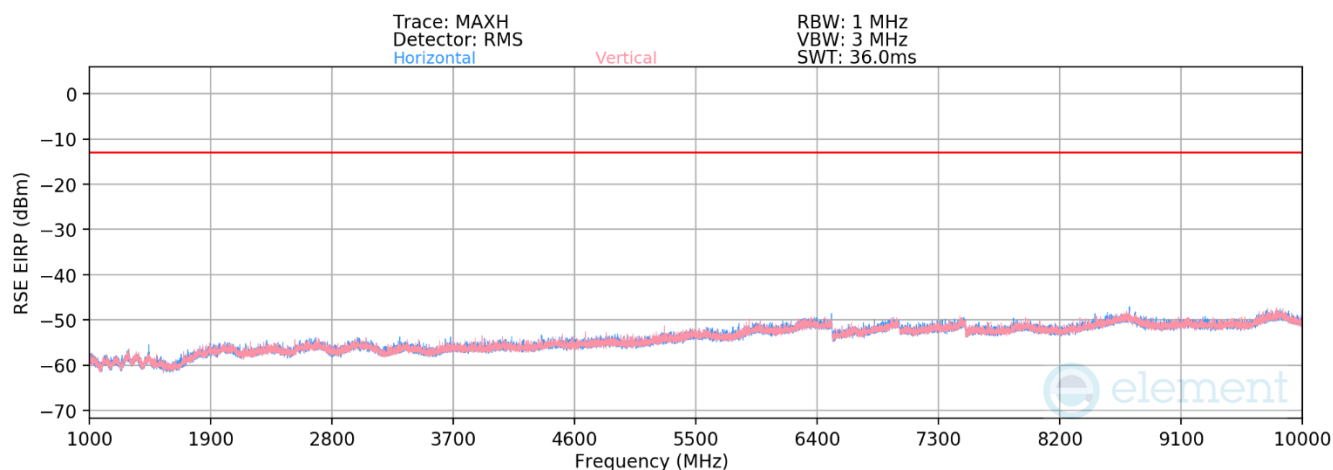
FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n26



Plot 7-127. Antenna 3 Radiated Spurious Plot Below 1GHz (NR Band n26)



Plot 7-128. Antenna 3 Radiated Spurious Plot Above 1GHz (NR Band n26)

FCC ID: BCGA3361		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-71.74	-5.31	29.94	-65.31	-13.00	-52.31
2449.5	H	-	-	-74.05	-0.22	32.73	-62.53	-13.00	-49.53
3266.0	V	-	-	-75.44	1.66	33.22	-62.04	-13.00	-49.04

Table 7-19. Antenna 3 Radiated Spurious Data (NR Band n26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	H	-	-	-71.88	-5.31	29.81	-65.45	-13.00	-52.45
2457.0	V	-	-	-73.29	-0.16	33.54	-61.71	-13.00	-48.71
3276.0	V	-	-	-75.04	1.66	33.61	-61.64	-13.00	-48.64

Table 7-20. Antenna 3 Radiated Spurious Data (NR Band n26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-72.58	-4.86	29.57	-65.69	-13.00	-52.69
2464.5	V	-	-	-73.36	-0.29	33.35	-61.91	-13.00	-48.91
3286.0	V	-	-	-75.30	1.66	33.35	-61.91	-13.00	-48.91

Table 7-21. Antenna 3 Radiated Spurious Data (NR Band n26 – High Channel)

FCC ID: BCGA3361	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.2 Antenna 1 – Radiated Spurious Emission Measurements

LTE Band 26

Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	V	-	-	-77.22	-1.83	27.95	-67.30	-13.00	-54.30
2449.5	H	-	-	-78.35	2.62	31.27	-63.99	-13.00	-50.99
3266.0	H	-	-	-78.30	4.04	32.74	-62.52	-13.00	-49.52

Table 7-22. Antenna 1 Radiated Spurious Data (LTE Band 26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	V	327	354	-74.51	-2.09	30.40	-64.86	-13.00	-51.86
2457.0	H	-	-	-78.31	2.40	31.09	-64.17	-13.00	-51.17
3276.0	H	-	-	-78.23	4.04	32.80	-62.45	-13.00	-49.45
4095.0	V	-	-	-78.96	5.38	33.42	-61.84	-13.00	-48.84

Table 7-23. Antenna 1 Radiated Spurious Data (LTE Band 26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	V	299	360	-75.01	-2.09	29.90	-65.36	-13.00	-52.36
2464.5	H	-	-	-78.41	2.55	31.13	-64.12	-13.00	-51.12
3286.0	V	-	-	-78.45	4.47	33.02	-62.24	-13.00	-49.24
4107.5	H	-	-	-78.87	5.31	33.44	-61.82	-13.00	-48.82

Table 7-24. Antenna 1 Radiated Spurious Data (LTE Band 26 – High Channel)

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LTE Band 14

Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	H	-	-	-77.32	-2.21	27.47	-67.79	-40.00	-27.79
2371.5	H	-	-	-78.25	2.90	31.65	-63.61	-13.00	-50.61
3162.0	H	-	-	-78.97	4.73	32.77	-62.49	-13.00	-49.49

Table 7-25. Antenna 1 Radiated Spurious Data (LTE Band 14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	H	-	-	-77.17	-2.27	27.56	-67.70	-40.00	-27.70
2379.0	V	-	-	-78.46	2.90	31.43	-63.83	-13.00	-50.83
3172.0	V	-	-	-78.53	4.15	32.62	-62.64	-13.00	-49.64

Table 7-26. Antenna 1 Radiated Spurious Data (LTE Band 14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-77.10	-2.27	27.63	-67.63	-40.00	-27.63
2386.5	H	-	-	-78.33	2.90	31.56	-63.70	-13.00	-50.70
3182.0	H	-	-	-78.24	4.01	32.77	-62.49	-13.00	-49.49

Table 7-27. Antenna 1 Radiated Spurious Data (LTE Band 14 – High Channel)

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NR Band n14

Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1581.0	H	-	-	-71.97	-5.31	29.72	-65.54	-40.00	-25.54
2371.5	V	-	-	-73.77	-0.14	33.09	-62.16	-13.00	-49.16
3162.0	V	-	-	-75.89	1.85	32.96	-62.30	-13.00	-49.30

Table 7-28. Antenna 1 Radiated Spurious Data (NR Band n14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	H	-	-	-71.93	-5.31	29.76	-65.49	-40.00	-25.49
2379.0	H	-	-	-73.92	0.06	33.14	-62.12	-13.00	-49.12
3172.0	H	-	-	-75.62	1.32	32.70	-62.56	-13.00	-49.56

Table 7-29. Antenna 1 Radiated Spurious Data (NR Band n14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	H	-	-	-71.75	-5.31	29.94	-65.32	-40.00	-25.32
2386.5	H	-	-	-73.89	0.06	33.16	-62.10	-13.00	-49.10
3182.0	H	-	-	-75.67	1.19	32.53	-62.73	-13.00	-49.73

Table 7-30. Antenna 1 Radiated Spurious Data (NR Band n14 – High Channel)

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NR Band n26

Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1633.0	H	-	-	-71.74	-5.31	29.94	-65.31	-13.00	-52.31
2449.5	H	-	-	-74.05	-0.22	32.73	-62.53	-13.00	-49.53
3266.0	V	-	-	-75.44	1.66	33.22	-62.04	-13.00	-49.04

Table 7-31. Antenna 1 Radiated Spurious Data (NR Band n26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	H	-	-	-71.90	-5.31	29.79	-65.47	-13.00	-52.47
2457.0	V	-	-	-74.05	-0.29	32.65	-62.60	-13.00	-49.60
3276.0	V	-	-	-75.50	1.99	33.48	-61.77	-13.00	-48.77

Table 7-32. Antenna 1 Radiated Spurious Data (NR Band n26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	H	-	-	-71.81	-5.31	29.88	-65.38	-13.00	-52.38
2464.5	V	-	-	-74.02	-0.29	32.69	-62.57	-13.00	-49.57
3286.0	H	-	-	-75.54	1.99	33.45	-61.81	-13.00	-48.81

Table 7-33. Antenna 1 Radiated Spurious Data (NR Band n26 – High Channel)

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7.8 Frequency Stability / Temperature Variation

§2.1055 §90.213

Test Overview and Limit

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

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

For LTE Band 26 and NR Band n26, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For LTE Band 14 and NR Band n14 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

Test Settings

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

Test Setup

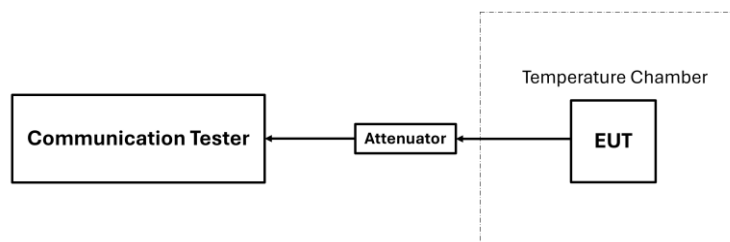


Figure 7-13. LTE Test Instrument & Measurement Setup

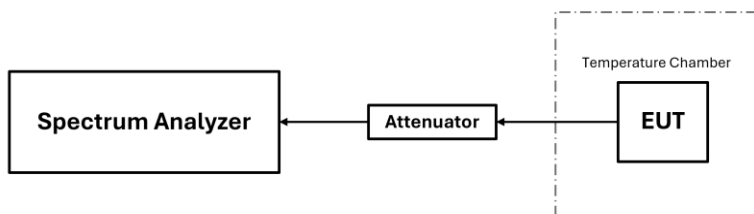


Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 26					
		Operating Frequency (GHz):		0.819	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
100 %	3.80	- 30	0.818999867	-0.000000145	-0.000017705
		- 20	0.819000199	0.000000187	0.000022833
		- 10	0.818999713	-0.000000299	-0.000036508
		0	0.819000088	0.000000076	0.000009280
		+ 10	0.819000045	0.000000033	0.000004029
		+ 20 (Ref)	0.819000012	0.000000000	0.000000000
		+ 30	0.819000017	0.000000005	0.000000611
		+ 40	0.818999922	-0.000000090	-0.000010989
		+ 50	0.818999995	-0.000000017	-0.000002076
Battery Endpoint	3.40	+ 20	0.819000133	0.000000121	0.000014774

Table 7-34. LTE Band 26 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 14				
Operating Band Lower Boundary (GHz)		0.788		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.788427108	-0.000427108
		- 20	0.788152304	-0.000152304
		- 10	0.788683729	-0.000683729
		0	0.788901245	-0.000901245
		+ 10	0.788318476	-0.000318476
		+ 20 (Ref)	0.788759804	-0.000759804
		+ 30	0.788240165	-0.000240165
		+ 40	0.788565093	-0.000565093
		+ 50	0.788094821	-0.000094821
Battery Endpoint	3.40	+ 20	0.788806734	-0.000806734

Table 7-35. LTE Band 14 Lower Boundary Frequency Stability Data

LTE Band 14				
Operating Band Upper Boundary (GHz)		0.798		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.797268314	-0.000731686
		- 20	0.797852903	-0.000147097
		- 10	0.797105689	-0.000894311
		0	0.797471038	-0.000528962
		+ 10	0.797927412	-0.000072588
		+ 20 (Ref)	0.797336001	-0.000663999
		+ 30	0.797660742	-0.000339258
		+ 40	0.797042376	-0.000957624
		+ 50	0.797593218	-0.000406782
Battery Endpoint	3.40	+ 20	0.797789450	-0.000210550

Table 7-36. LTE Band 14 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n26					
		Operating Frequency (GHz):		0.819	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
100 %	3.80	- 30	0.818999797	-0.000000245	-0.000029915
		- 20	0.819000240	0.000000198	0.000024176
		- 10	0.819000119	0.000000077	0.000009402
		0	0.818999910	-0.000000132	-0.000016117
		+ 10	0.819000047	0.000000005	0.000000611
		+ 20 (Ref)	0.819000042	0.000000000	0.000000000
		+ 30	0.819000163	0.000000121	0.000014774
		+ 40	0.818999984	-0.000000058	-0.000007082
		+ 50	0.819000075	0.000000033	0.000004029
Battery Endpoint	3.40	+ 20	0.818999868	-0.000000174	-0.000021245

Table 7-37. NR Band n26 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n14				
Operating Band Lower Boundary (GHz)			0.788	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.788841297	-0.000841297
		- 20	0.788213684	-0.000213684
		- 10	0.788486901	-0.000486901
		0	0.788096372	-0.000096372
		+ 10	0.788765903	-0.000765903
		+ 20 (Ref)	0.788345120	-0.000345120
		+ 30	0.788623514	-0.000623514
		+ 40	0.788930218	-0.000930218
		+ 50	0.788578036	-0.000578036
Battery Endpoint	3.40	+ 20	0.788308761	-0.000308761

Table 7-38. NR Band n14 Lower Boundary Frequency Stability Data

NR Band n14				
Operating Band Upper Boundary (GHz)			0.798	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.797539174	-0.000460826
		- 20	0.797129653	-0.000870347
		- 10	0.797758420	-0.000241580
		0	0.797305716	-0.000694284
		+ 10	0.797874203	-0.000125797
		+ 20 (Ref)	0.797051937	-0.000948063
		+ 30	0.797692850	-0.000307150
		+ 40	0.797403128	-0.000596872
		+ 50	0.797916204	-0.000083796
Battery Endpoint	3.40	+ 20	0.797230675	-0.000769325

Table 7-39. NR Band n14 Upper Boundary Frequency Stability 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: BCGA3361** complies with all the requirements of Part 90 of the FCC rules.

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