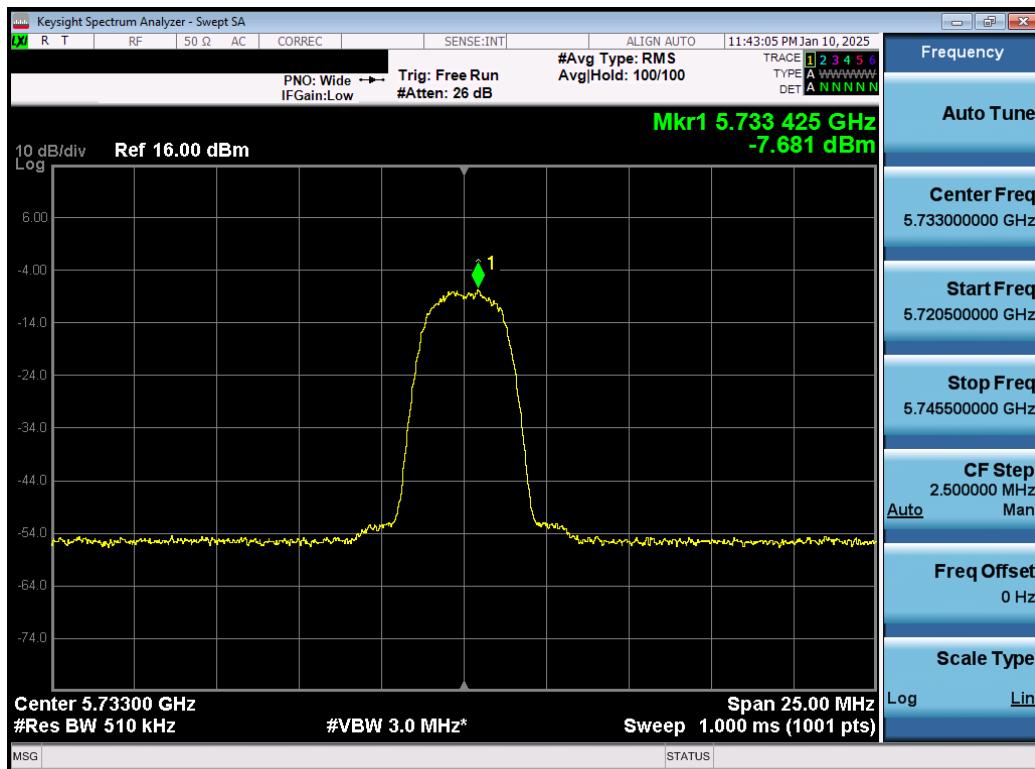
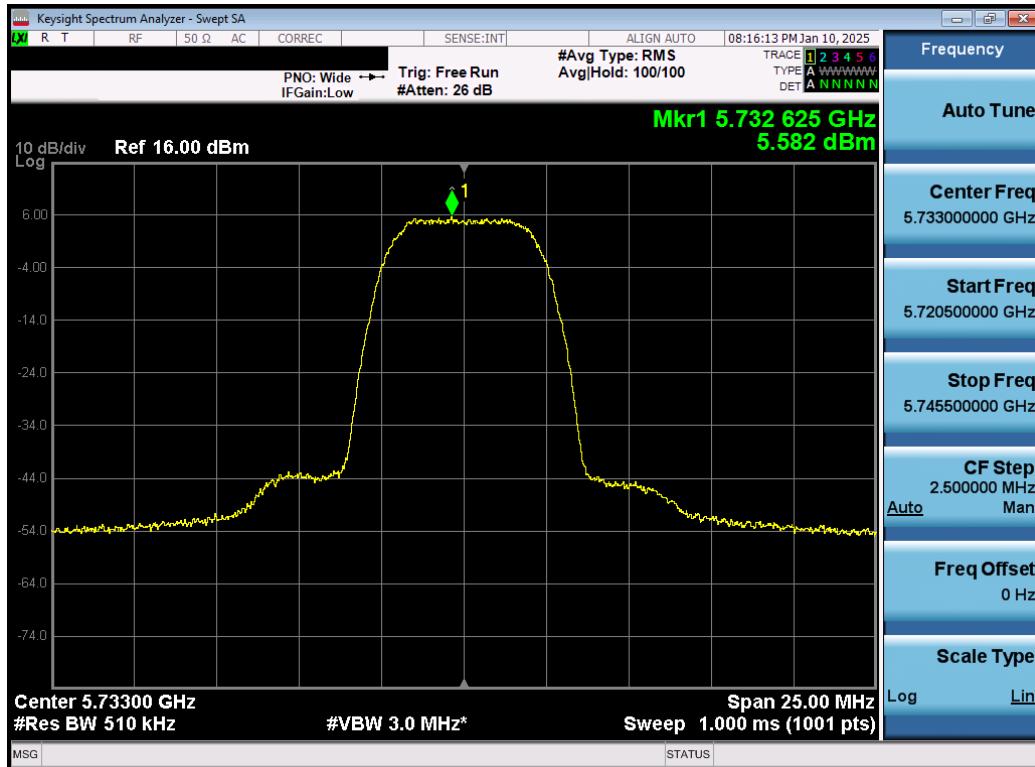


Plot 7-73. PSD TxBF Antenna 5T (NB UNII HDR4, iPA – 5733MHz)

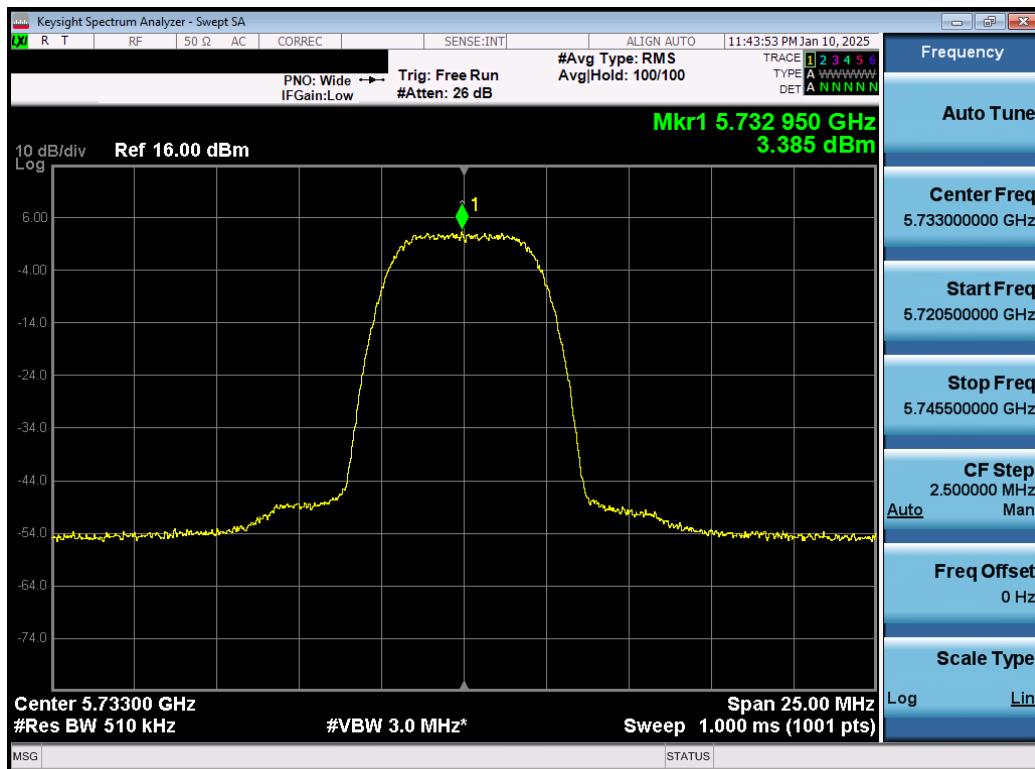


Plot 7-74. PSD TxBF Antenna 3b (NB UNII HDR4, iPA – 5733MHz)

FCC ID: BCGA3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device	Page 77 of 144

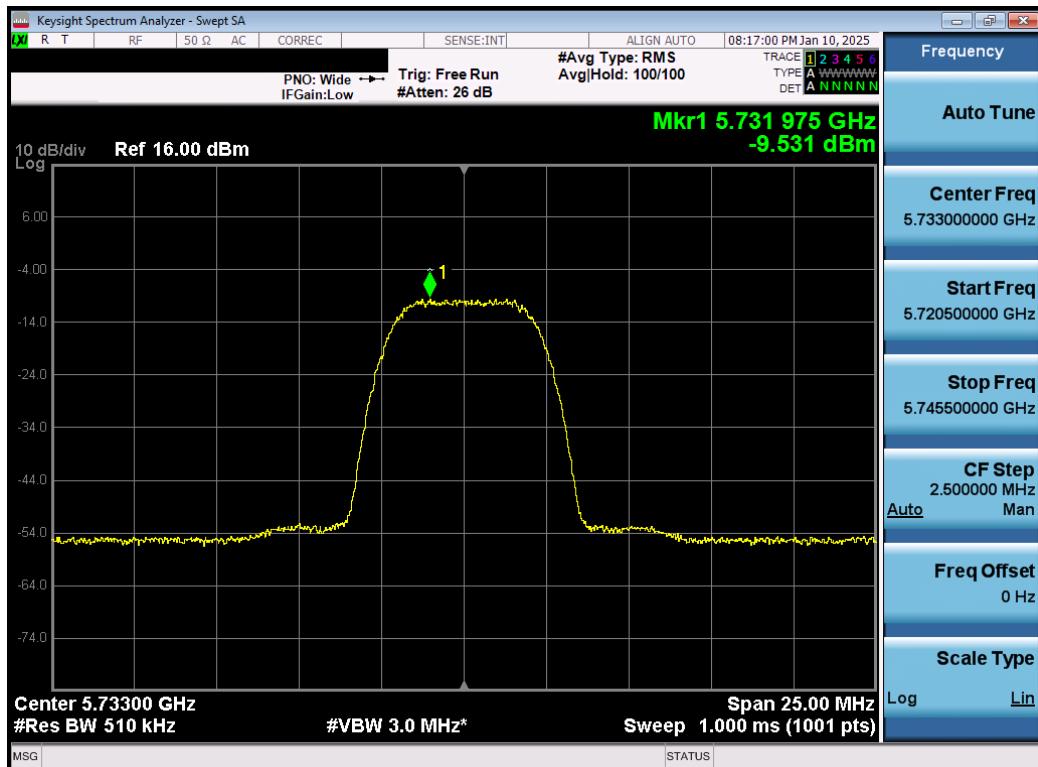


Plot 7-75. PSD TxBF Antenna 5T (NB UNII HDR8, ePA – 5733MHz)

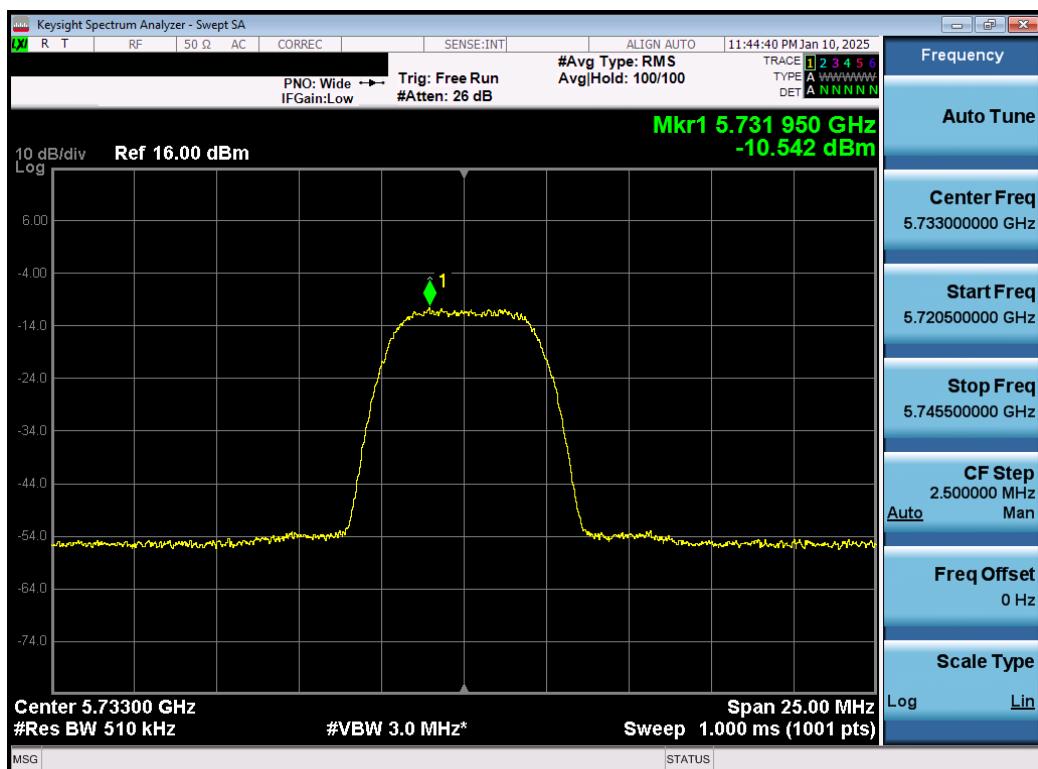


Plot 7-76. PSD TxBF Antenna 3b (NB UNII HDR8, ePA – 5733MHz)

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device	Page 78 of 144



Plot 7-77. PSD TxBF Antenna 5T (NB UNII HDR8, iPA – 5733MHz)



Plot 7-78. PSD TxBF Antenna 3b (NB UNII HDR8, iPA – 5733MHz)

FCC ID: BCGA3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device	Page 79 of 144

7.6 Radiated Spurious Emission – Above 1GHz

§15.407(b) §15.205 §15.209

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels and power schemes were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.25 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725 – 5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-20 per Section 15.209.

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-20. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Subclauses 12.7.7, 12.7.6

KDB 789033 D02 v02r01 – Section G

FCC ID: BCGA3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span}/\text{RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

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

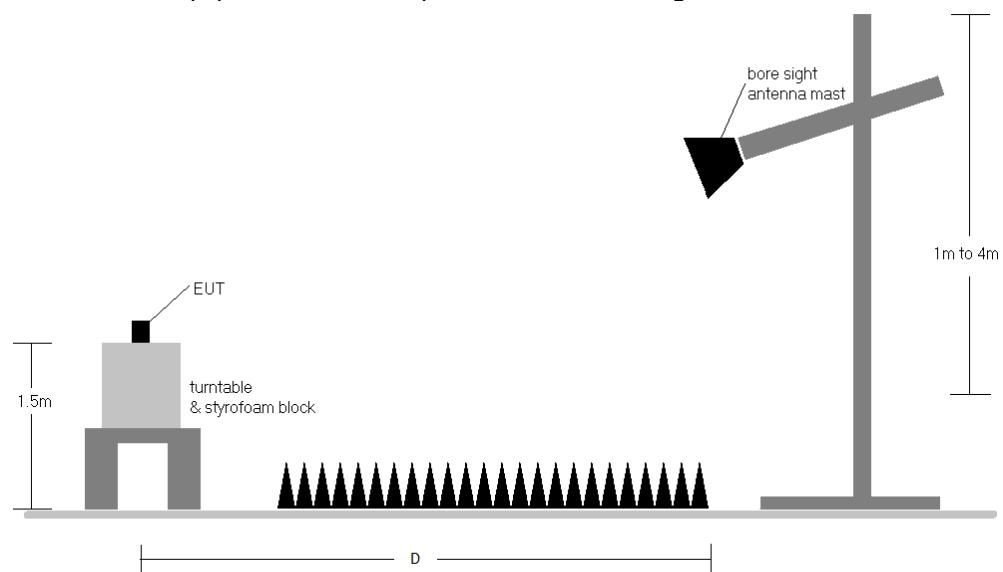


Figure 7-5. Test Instrument & Measurement Setup

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 7-20.
2. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-20. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
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 using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All supported modulation and power schemes have been tested on the unit and only worst case configuration is reported.

Sample Calculations

Determining Spurious Emissions Levels

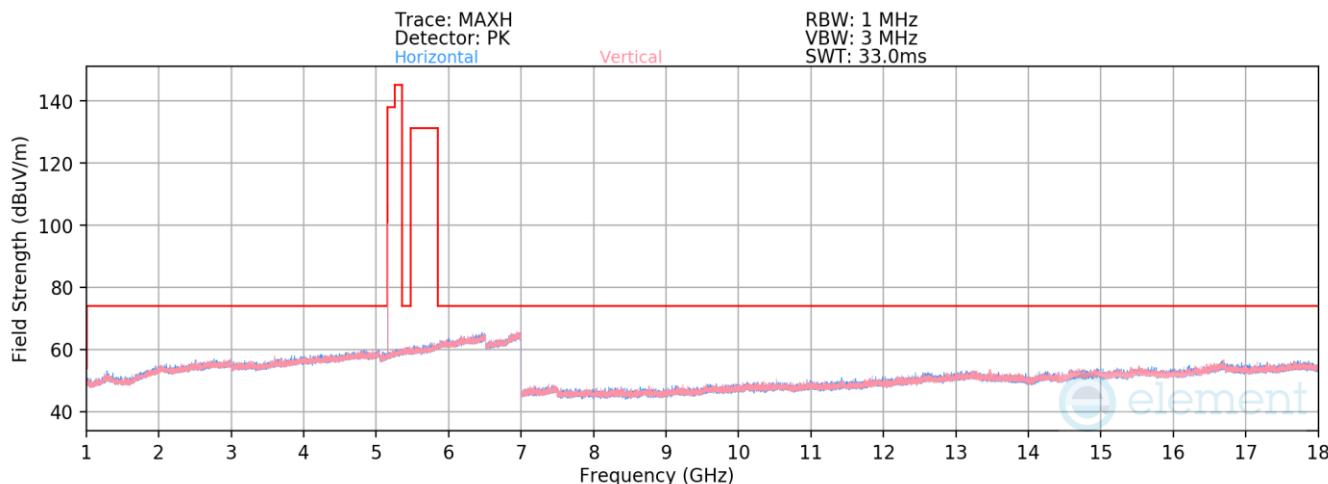
- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6.3 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.6.1 Antenna 1b Radiated Spurious Emission (Above 1GHz)



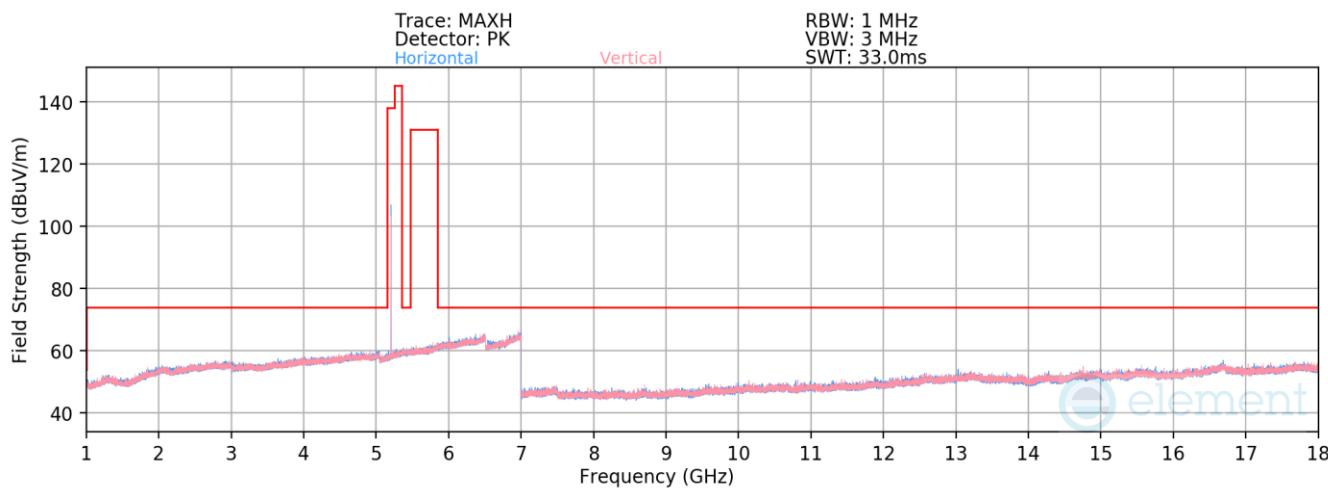
Plot 7-79. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII BDR, ePA – 5162MHz)

Mode:	BDR
Data Rate:	1Mbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10324.00	Peak	H	-	-	-68.65	11.41	49.76	68.23	-18.47
* 15486.00	Average	H	-	-	-81.80	16.50	41.70	53.98	-12.28
* 15486.00	Peak	H	-	-	-70.47	16.50	53.03	73.98	-20.95

Table 7-21. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 83 of 144



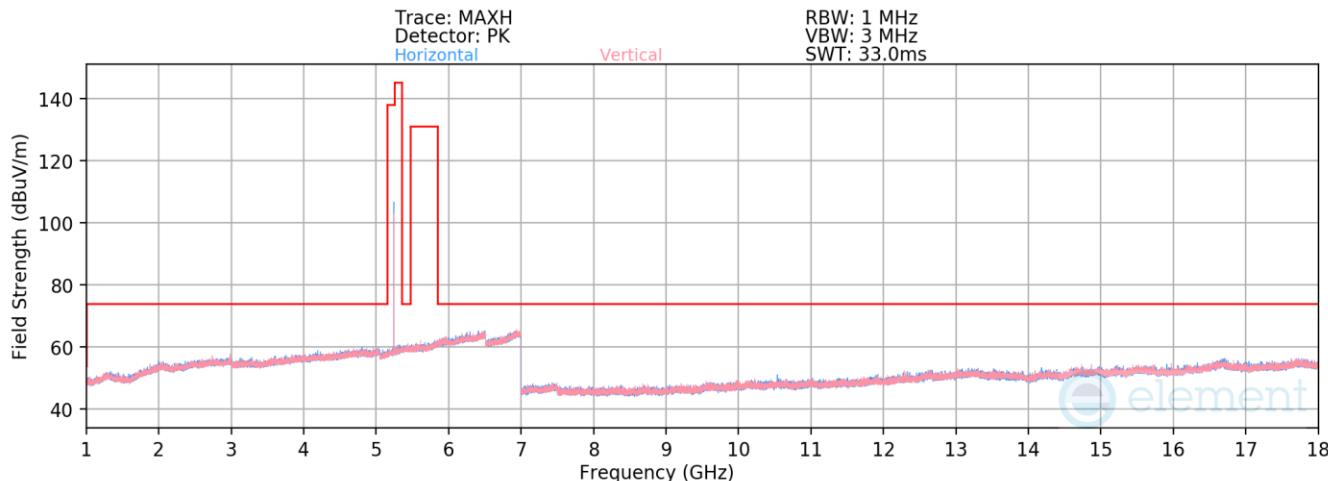
Plot 7-80. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII BDR, ePA – 5204MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10408.00	Peak	V	-	-	-68.81	11.79	49.98	68.23	-18.25
* 15612.00	Average	V	-	-	-82.05	17.22	42.17	53.98	-11.81
* 15612.00	Peak	V	-	-	-71.50	17.23	52.73	73.98	-21.25

Table 7-22. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 84 of 144



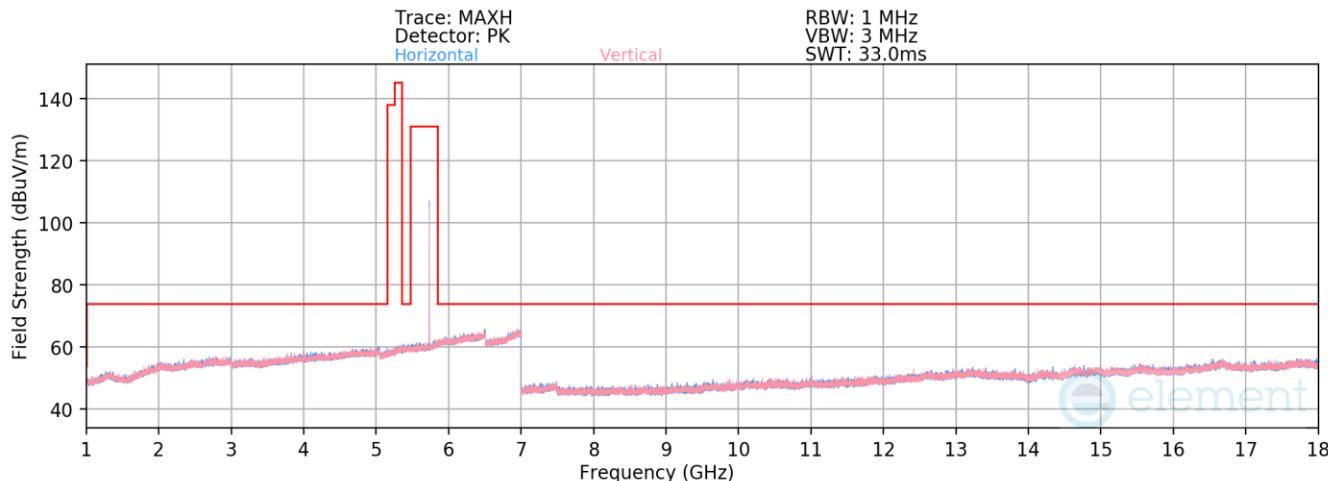
Plot 7-81. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII BDR, ePA – 5245MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5245MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10490.00	Peak	H	-	-	-69.64	12.20	49.55	68.23	-18.68
* 15735.00	Average	H	-	-	-81.65	16.66	42.02	53.98	-11.96
* 15735.00	Peak	H	-	-	-71.14	16.66	52.53	73.98	-21.45

Table 7-23. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 85 of 144



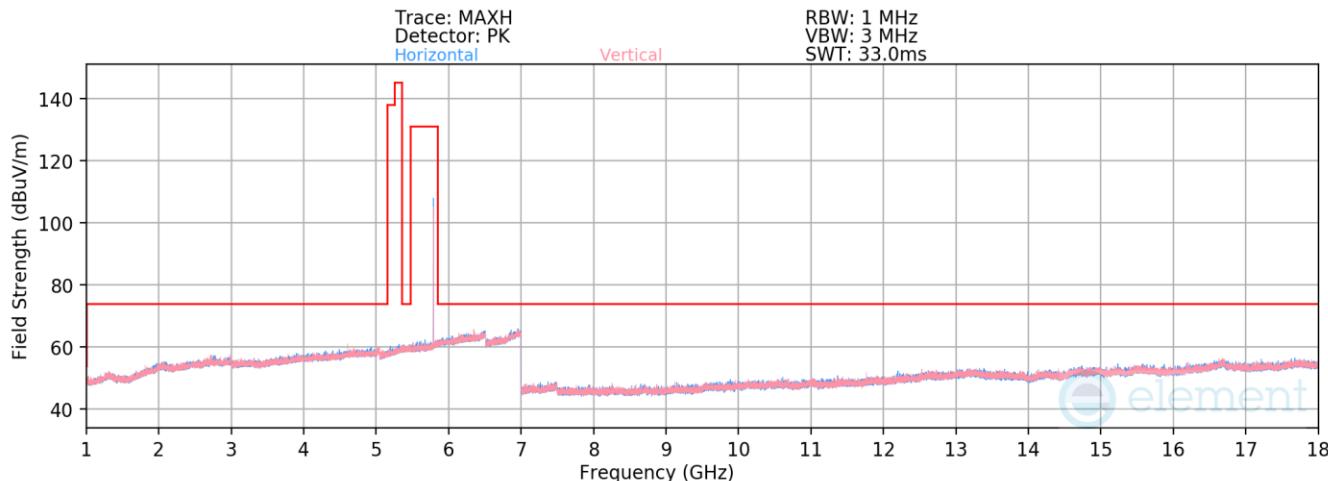
Plot 7-82. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII BDR, ePA – 5733MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5733MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11466.00	Average	V	-	-	-81.13	13.09	38.96	53.98	-15.02
* 11466.00	Peak	V	-	-	-70.32	13.12	49.80	73.98	-24.18
17199.00	Peak	V	-	-	-70.57	18.05	54.48	68.23	-13.75

Table 7-24. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 86 of 144



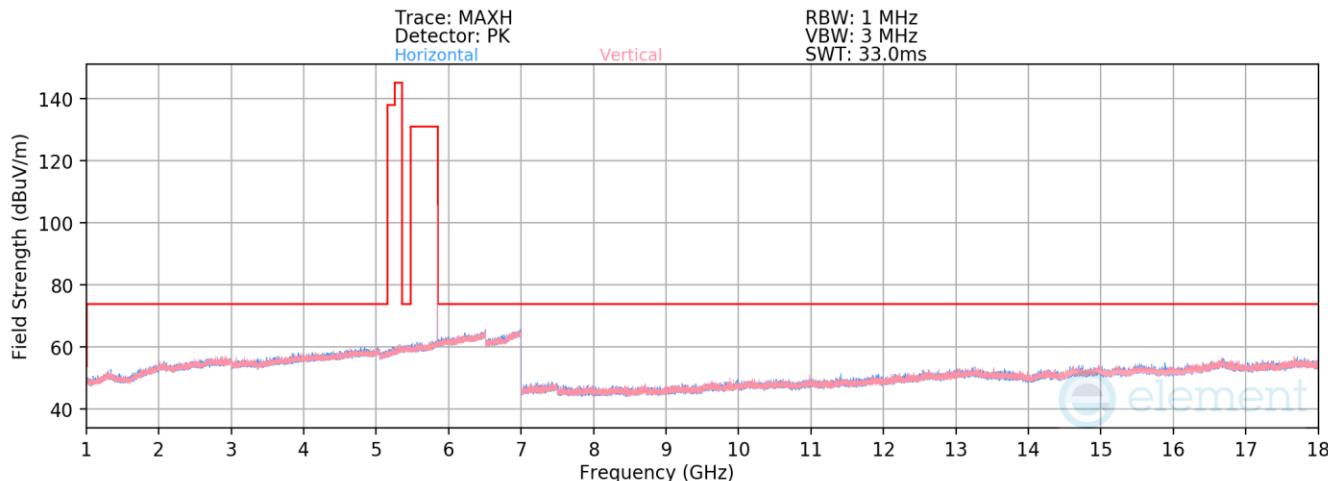
Plot 7-83. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII BDR, ePA – 5789MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11578.00	Average	V	-	-	-80.78	13.10	39.32	53.98	-14.66
* 11578.00	Peak	V	-	-	-70.13	13.17	50.04	73.98	-23.94
17367.00	Peak	V	-	-	-70.35	18.37	55.01	68.23	-13.22

Table 7-25. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 87 of 144



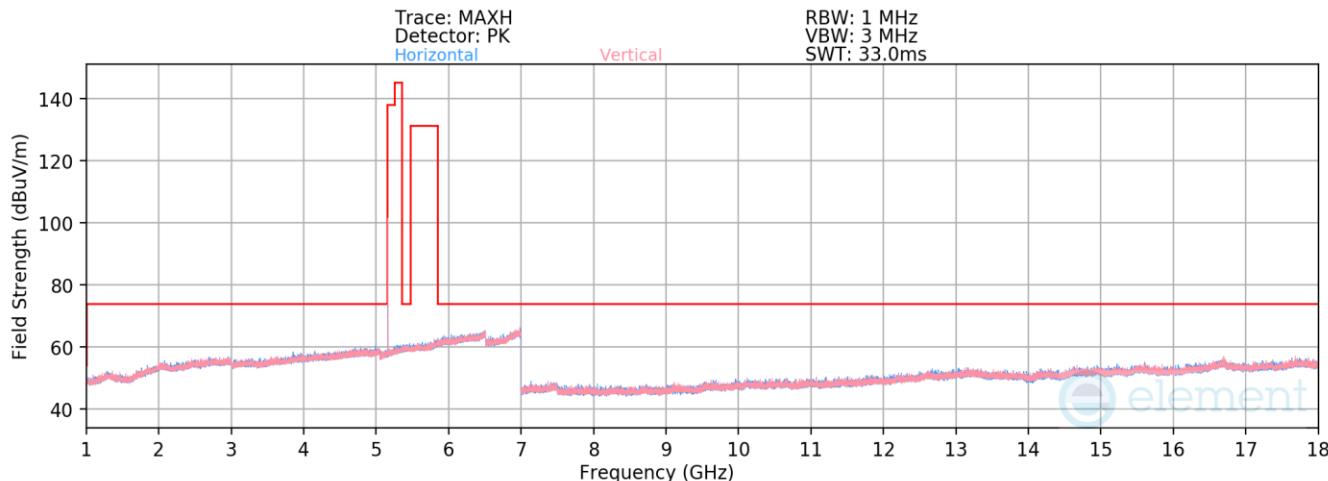
Plot 7-84. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII BDR, ePA – 5844MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11688.00	Average	H	-	-	-80.93	13.03	39.10	53.98	-14.88
* 11688.00	Peak	H	-	-	-70.18	13.09	49.90	73.98	-24.08
17532.00	Peak	V	-	-	-70.58	19.34	55.76	68.23	-12.47

Table 7-26. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 88 of 144



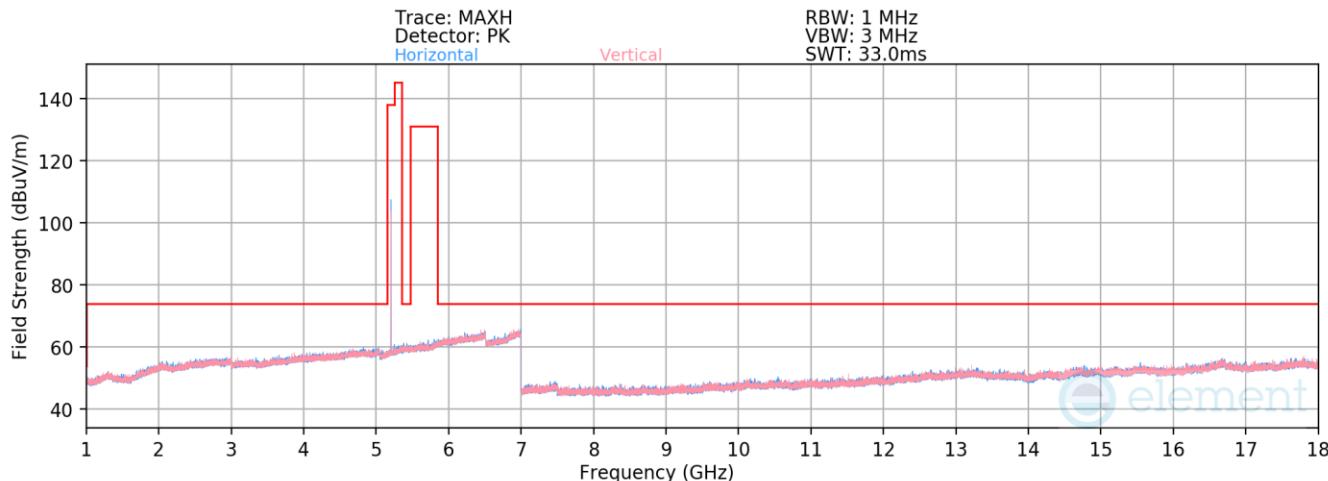
Plot 7-85. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII HDR4, ePA – 5162MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10324.00	Peak	V	-	-	-68.72	11.41	49.69	68.23	-18.54
* 15486.00	Average	V	-	-	-81.69	16.50	41.80	53.98	-12.18
* 15486.00	Peak	V	-	-	-71.21	16.49	52.28	73.98	-21.70

Table 7-27. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 89 of 144



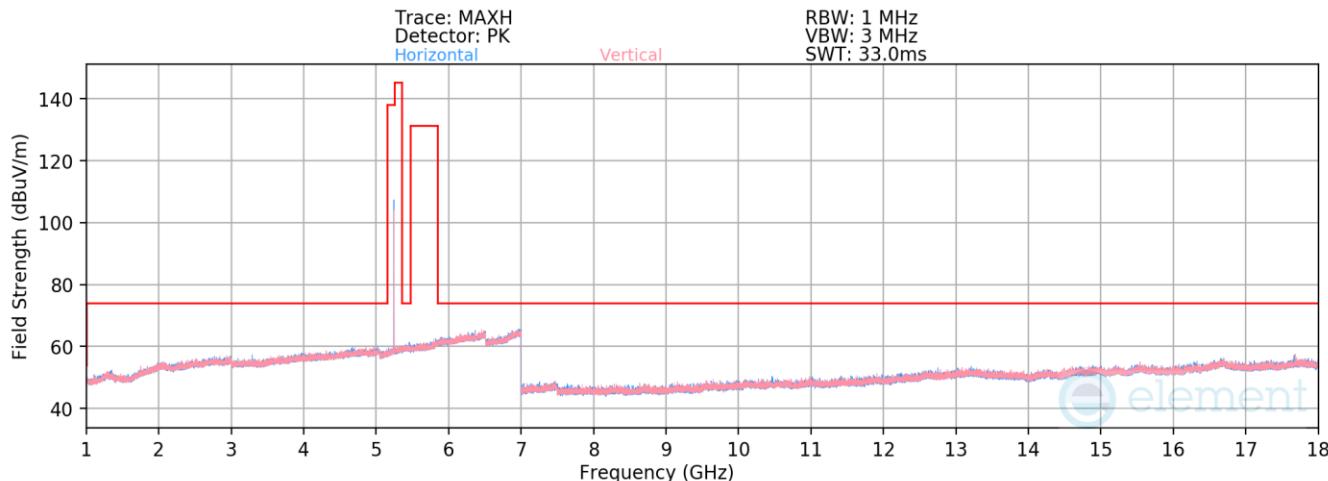
Plot 7-86. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII HDR4, ePA – 5204MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10408.00	Peak	H	-	-	-69.46	11.79	49.33	68.23	-18.90
* 15612.00	Average	V	-	-	-81.82	17.11	42.29	53.98	-11.69
* 15612.00	Peak	V	-	-	-71.12	17.23	53.10	73.98	-20.88

Table 7-28. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 90 of 144



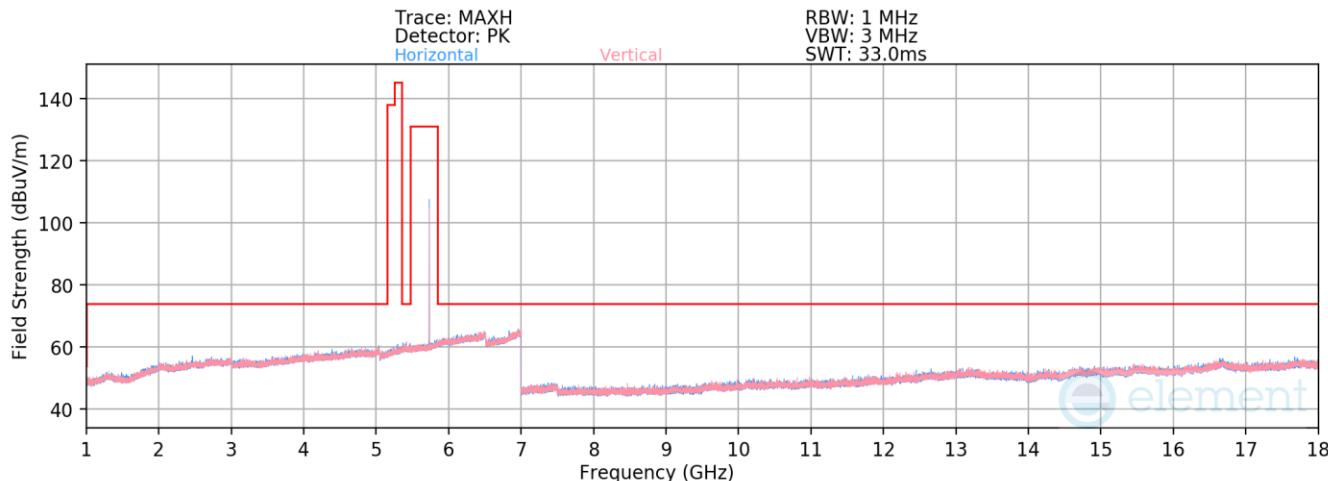
Plot 7-87. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII HDR4, ePA – 5245MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5245MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10490.00	Peak	H	-	-	-69.31	12.24	49.92	68.23	-18.31
* 15735.00	Average	V	-	-	-81.66	16.87	42.21	53.98	-11.77
* 15735.00	Peak	V	-	-	-70.36	16.66	53.30	73.98	-20.68

Table 7-29. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 91 of 144



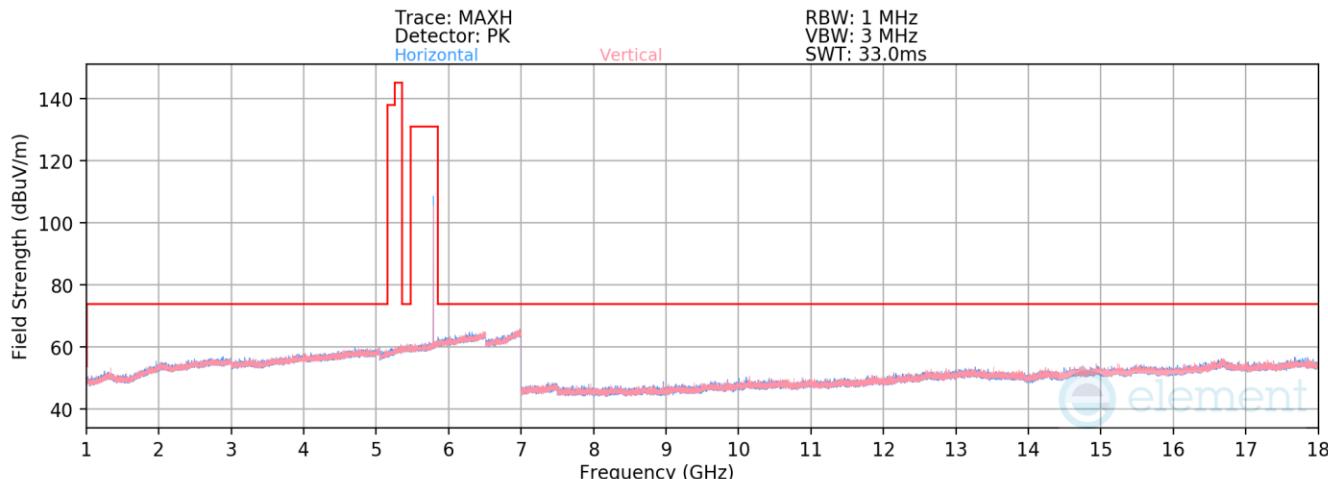
Plot 7-88. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII HDR4, ePA – 5733MHz)

Mode:	HDR4
Data Rate:	4Mbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	5733MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11466.00	Average	V	-	-	-81.22	13.20	38.98	53.98	-15.00
* 11466.00	Peak	V	-	-	-69.97	13.09	50.12	73.98	-23.86
17199.00	Peak	V	-	-	-70.57	18.05	54.48	68.23	-13.75

Table 7-30. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 92 of 144



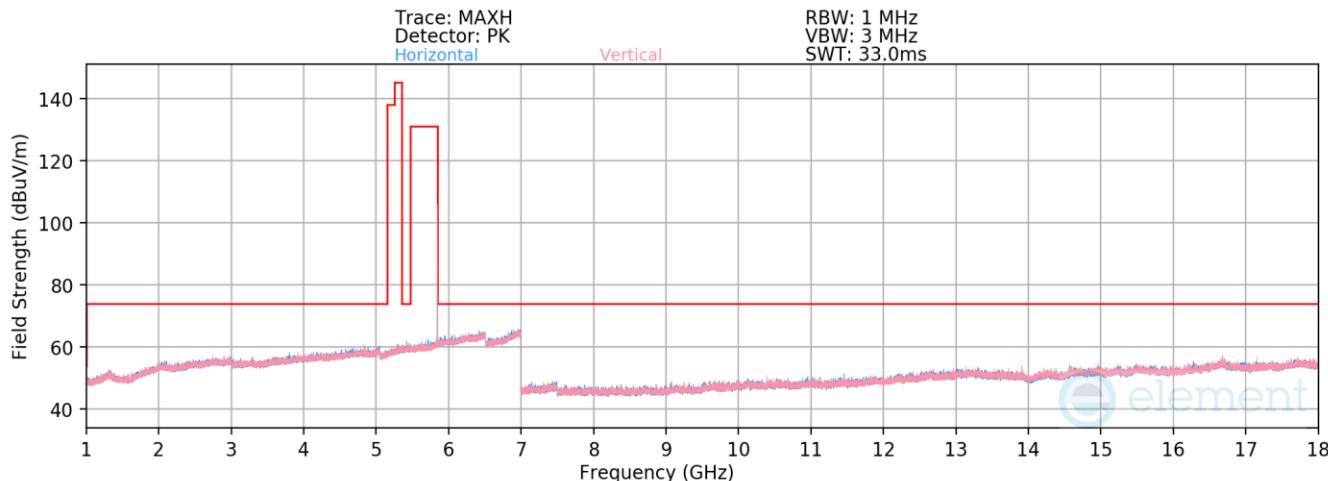
Plot 7-89. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII HDR4, ePA – 5789MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11578.00	Average	V	-	-	-80.77	13.10	39.33	53.98	-14.65
* 11578.00	Peak	V	-	-	-69.99	13.17	50.17	73.98	-23.81
17367.00	Peak	V	-	-	-71.17	18.38	54.21	68.23	-14.02

Table 7-31. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 93 of 144



Plot 7-90. Radiated Spurious Emissions 1-18GHz Antenna 1b (NB UNII HDR4, ePA – 5844MHz)

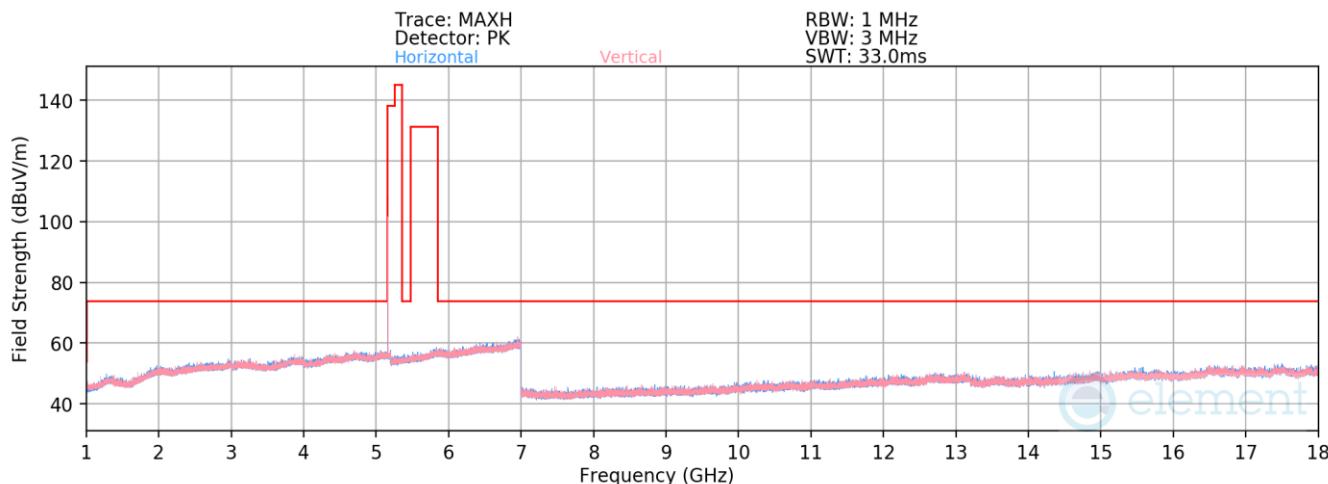
Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11688.00	Average	V	-	-	-80.57	13.03	39.46	53.98	-14.52
* 11688.00	Peak	V	-	-	-69.13	13.09	50.96	73.98	-23.02
17532.00	Peak	H	-	-	-70.92	19.18	55.26	68.23	-12.97

Table 7-32. Radiated Spurious Emissions Measurements Antenna 1b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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7.6.2 TxBF Radiated Spurious Emission (Above 1GHz)



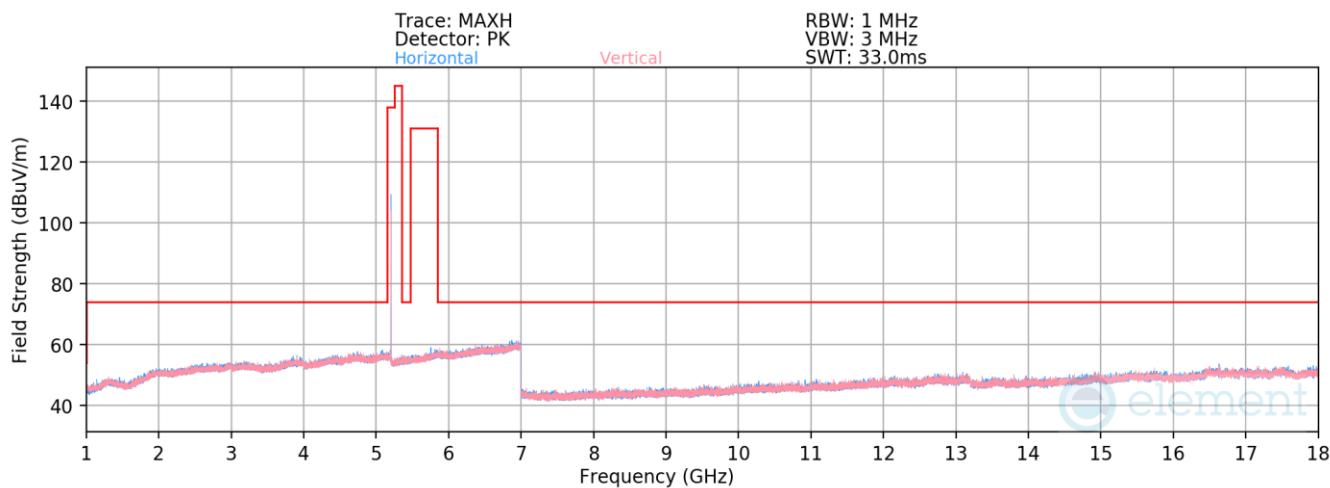
Plot 7-91. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR, ePA – 5162MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10324.00	Peak	H	-	-	-67.64	8.50	47.86	68.23	-20.37
* 15486.00	Average	V	-	-	-80.69	13.98	40.29	53.98	-13.69
* 15486.00	Peak	V	-	-	-69.16	13.86	51.70	73.98	-22.28

Table 7-33. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 95 of 144



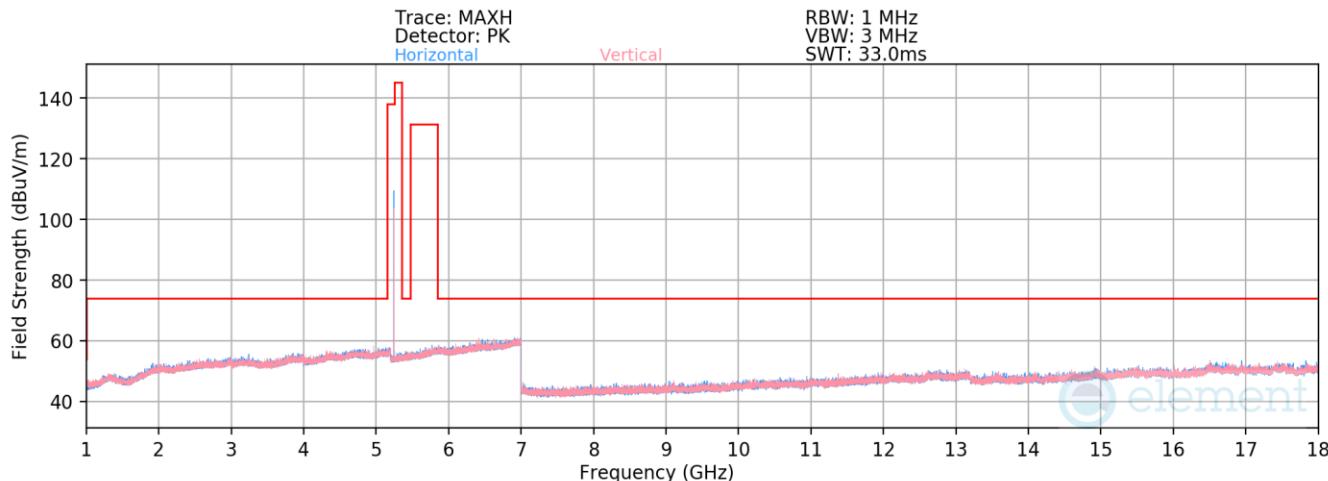
Plot 7-92. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR, ePA – 5204MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

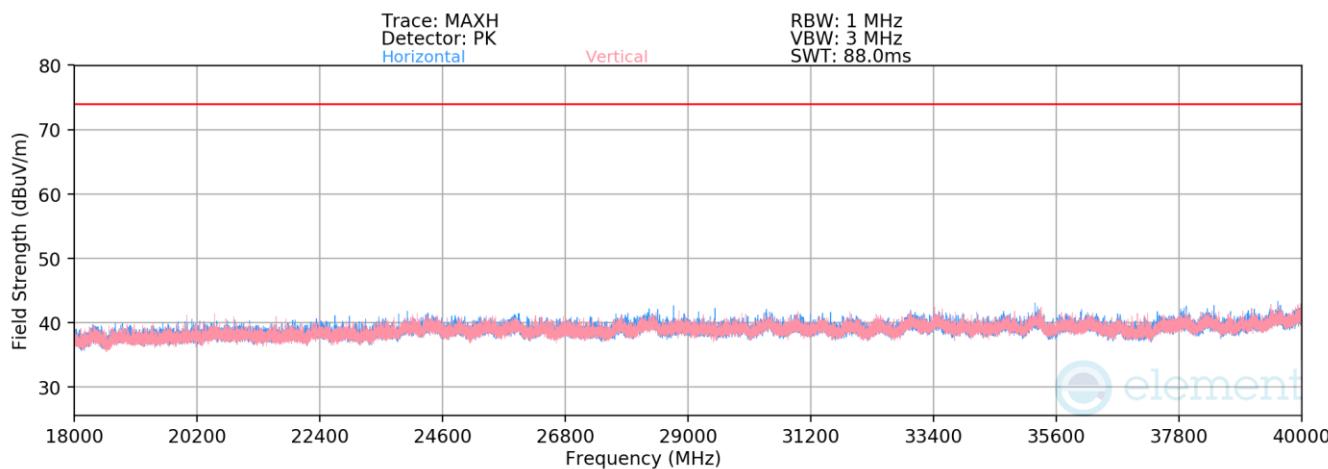
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10408.00	Peak	H	-	-	-66.87	8.63	48.75	68.23	-19.48
* 15612.00	Average	V	-	-	-80.85	14.17	40.33	53.98	-13.65
* 15612.00	Peak	V	-	-	-69.71	13.88	51.17	73.98	-22.81

Table 7-34. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 96 of 144



Plot 7-93. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR, ePA – 5245MHz)



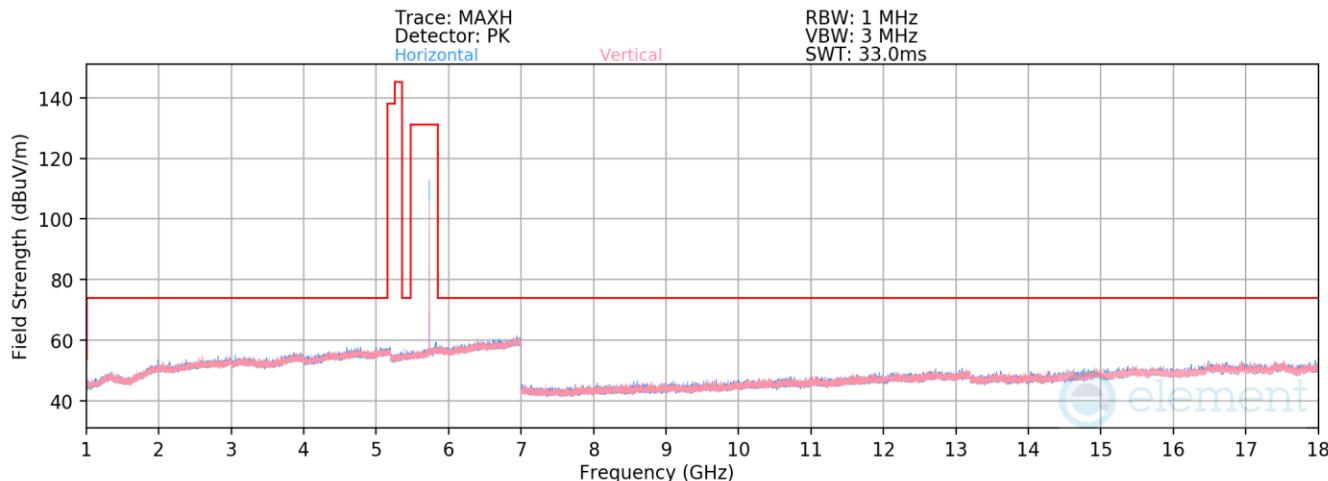
Plot 7-94. Radiated Spurious Emissions Above 18GHz TxBF (NB UNII BDR, ePA – 5245MHz)

Mode:	BDR
Data Rate:	1Mbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	5245MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10490.00	Peak	H	-	-	-67.96	8.75	47.80	68.23	-20.43
* 15735.00	Average	H	-	-	-80.10	13.36	40.27	53.98	-13.71
* 15735.00	Peak	H	-	-	-68.09	13.36	52.27	73.98	-21.71

Table 7-35. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)				Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device				Page 97 of 144



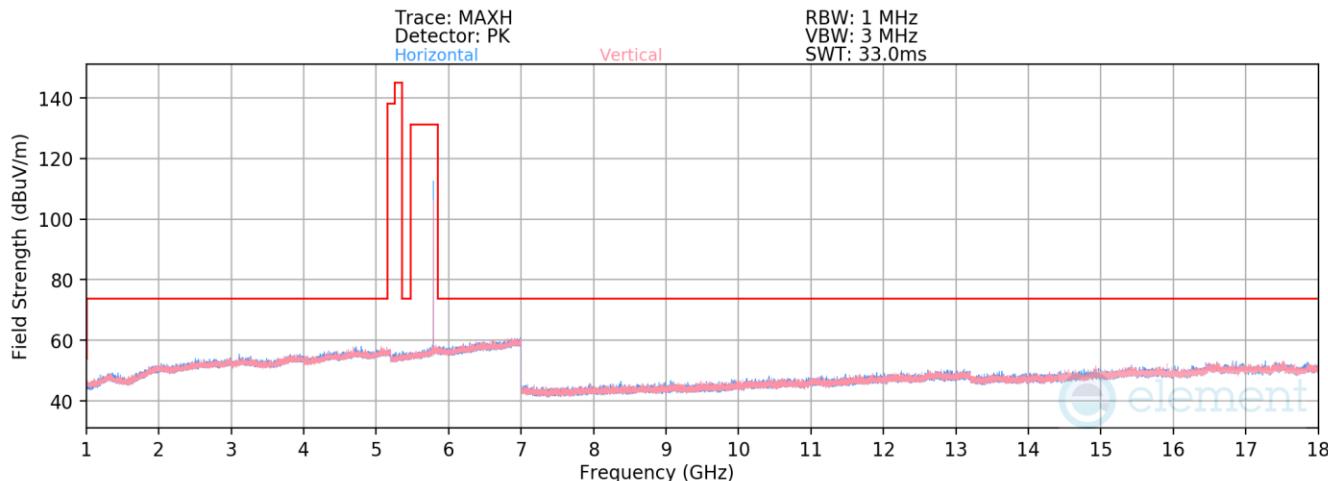
Plot 7-95. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR, ePA – 5733MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5733MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11466.00	Average	H	-	-	-79.44	9.40	36.96	53.98	-17.02
* 11466.00	Peak	H	-	-	-68.08	9.41	48.33	73.98	-25.65
17199.00	Peak	V	-	-	-70.15	16.01	52.85	68.23	-15.38

Table 7-36. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 98 of 144



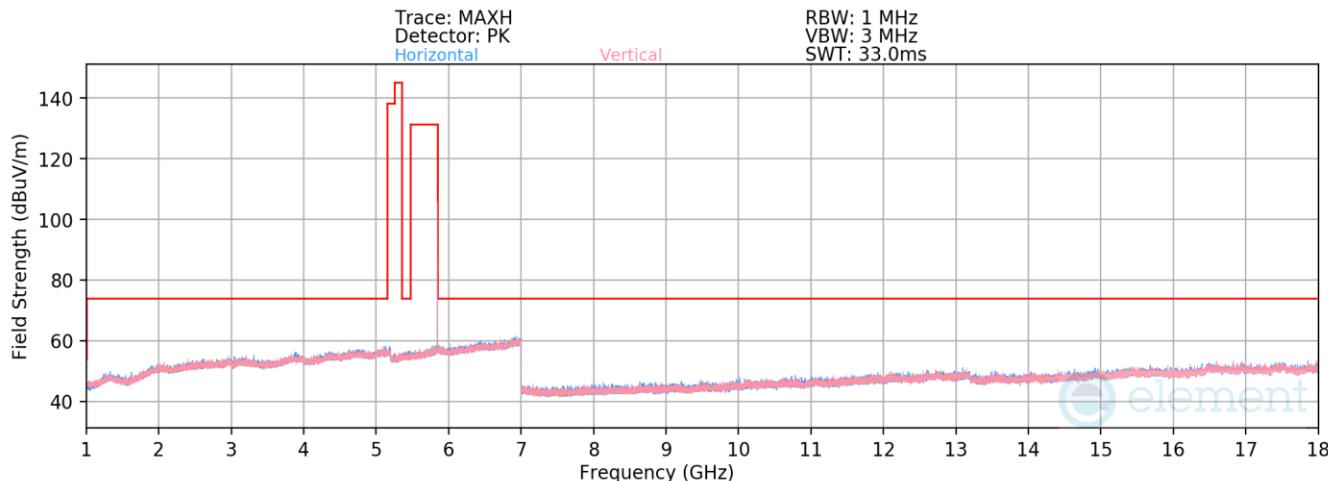
Plot 7-96. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR, ePA – 5789MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

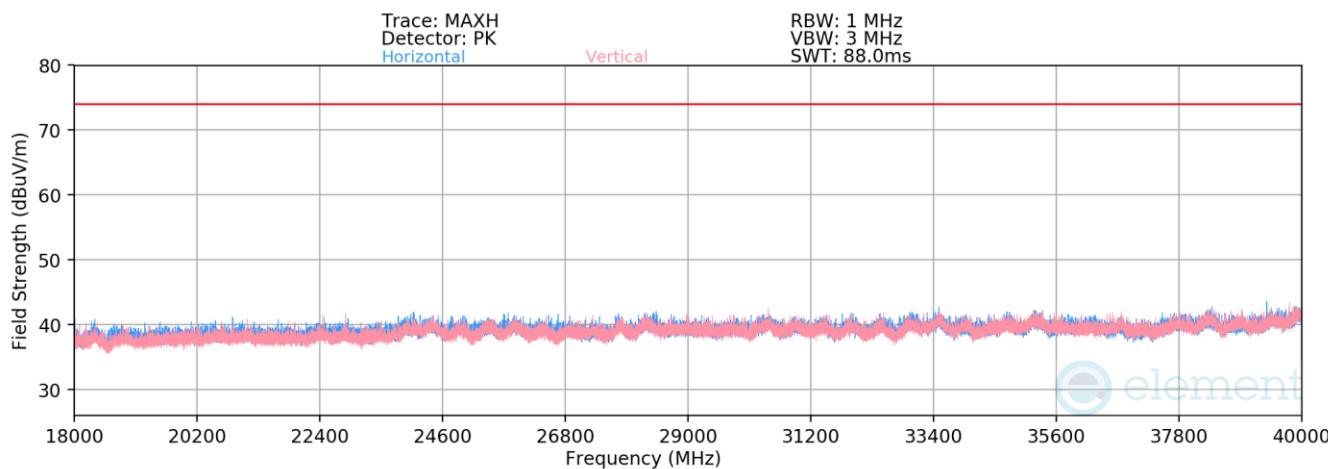
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11578.00	Average	V	-	-	-79.47	9.44	36.98	53.98	-17.00
* 11578.00	Peak	V	-	-	-68.23	9.41	48.18	73.98	-25.80
17367.00	Peak	H	-	-	-70.34	17.05	53.70	68.23	-14.53

Table 7-37. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 99 of 144



Plot 7-97. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR, ePA – 5844MHz)



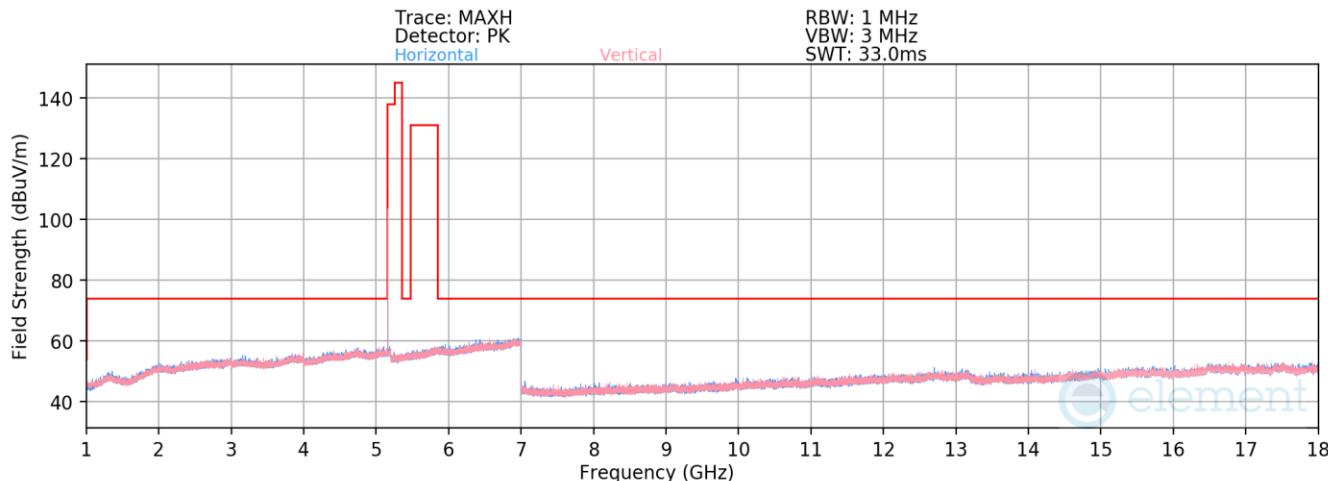
Plot 7-98. Radiated Spurious Emissions Above 18GHz TxBF (NB UNII BDR, ePA – 5844MHz)

Mode:	BDR
Data Rate:	1Mbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	5844MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11688.00	Average	V	-	-	-79.37	9.72	37.35	53.98	-16.63
* 11688.00	Peak	V	-	-	-68.22	9.75	48.53	73.98	-25.45
17532.00	Peak	V	-	-	-70.51	18.22	54.70	68.23	-13.53

Table 7-38. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)				Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device				Page 100 of 144



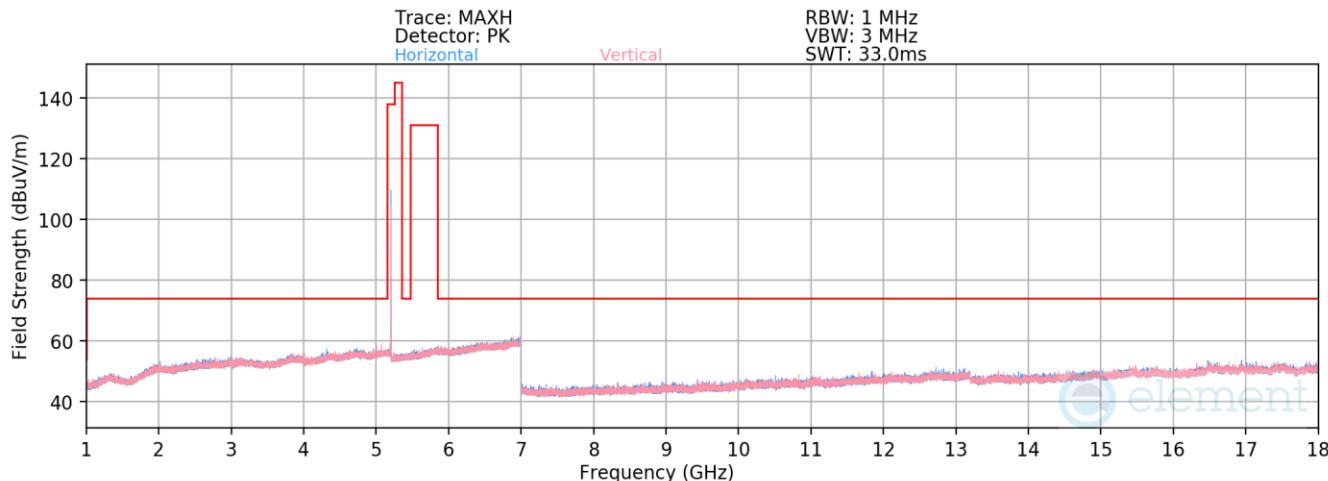
Plot 7-99. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA – 5162MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10324.00	Peak	H	-	-	-67.42	8.59	48.17	68.23	-20.06
* 15486.00	Average	H	-	-	-80.06	13.86	40.80	53.98	-13.18
* 15486.00	Peak	H	-	-	-68.57	13.90	52.33	73.98	-21.65

Table 7-39. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 101 of 144



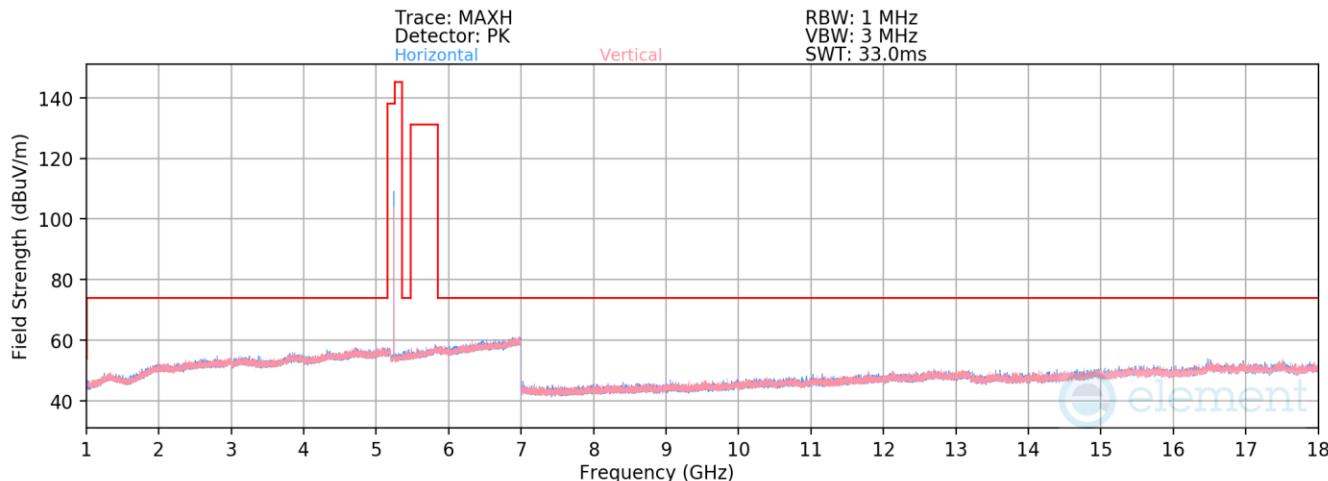
Plot 7-100. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA – 5204MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

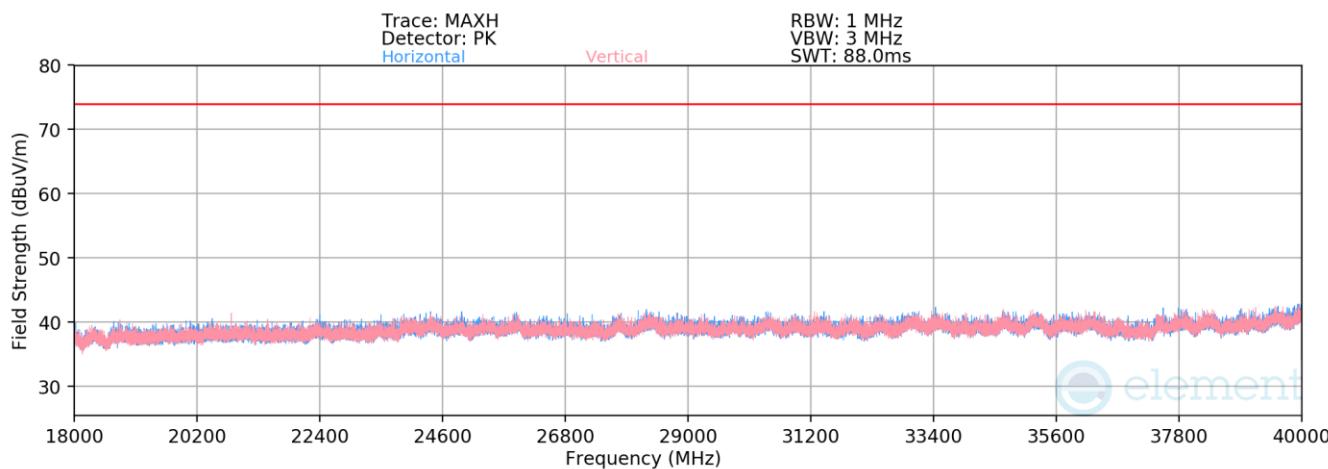
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10408.00	Peak	H	-	-	-67.48	8.63	48.15	68.23	-20.08
*	Average	V	-	-	-80.61	14.17	40.56	53.98	-13.42
*	Peak	V	-	-	-69.80	14.17	51.37	73.98	-22.61

Table 7-40. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 102 of 144



Plot 7-101. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA – 5245MHz)



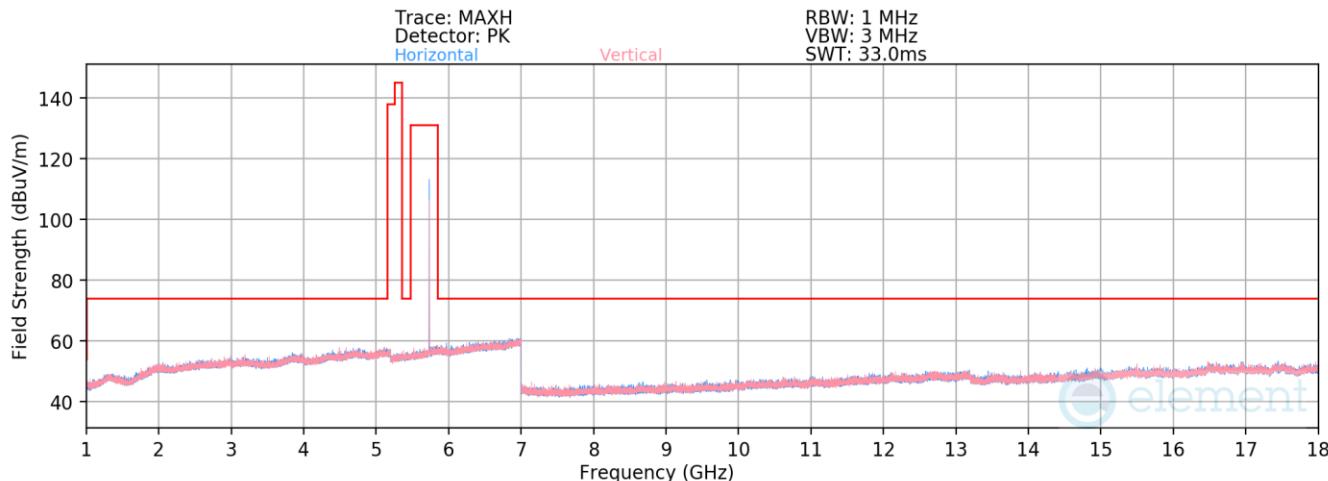
Plot 7-102. Radiated Spurious Emissions Above 18GHz TxBF (NB UNII HDR4, ePA – 5245MHz)

Mode:	HDR4
Data Rate:	4Mbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	5245MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10490.00	Peak	V	-	-	-67.37	8.79	48.42	68.23	-19.81
*	Average	V	-	-	-80.11	13.41	40.29	53.98	-13.69
*	Peak	V	-	-	-68.41	13.52	52.11	73.98	-21.87

Table 7-41. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)				Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device				Page 103 of 144



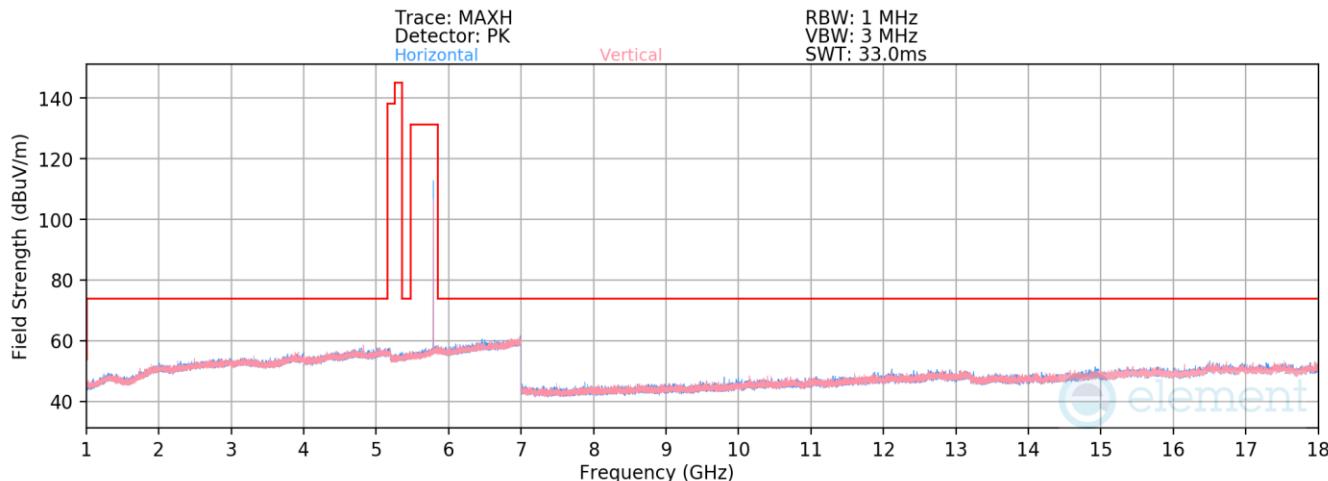
Plot 7-103. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA – 5733MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5733MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11466.00	Average	H	-	-	-79.40	9.47	37.07	53.98	-16.91
* 11466.00	Peak	H	-	-	-68.40	9.47	48.07	73.98	-25.91
17199.00	Peak	H	-	-	-69.34	16.01	53.67	68.23	-14.56

Table 7-42. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)				Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device				Page 104 of 144



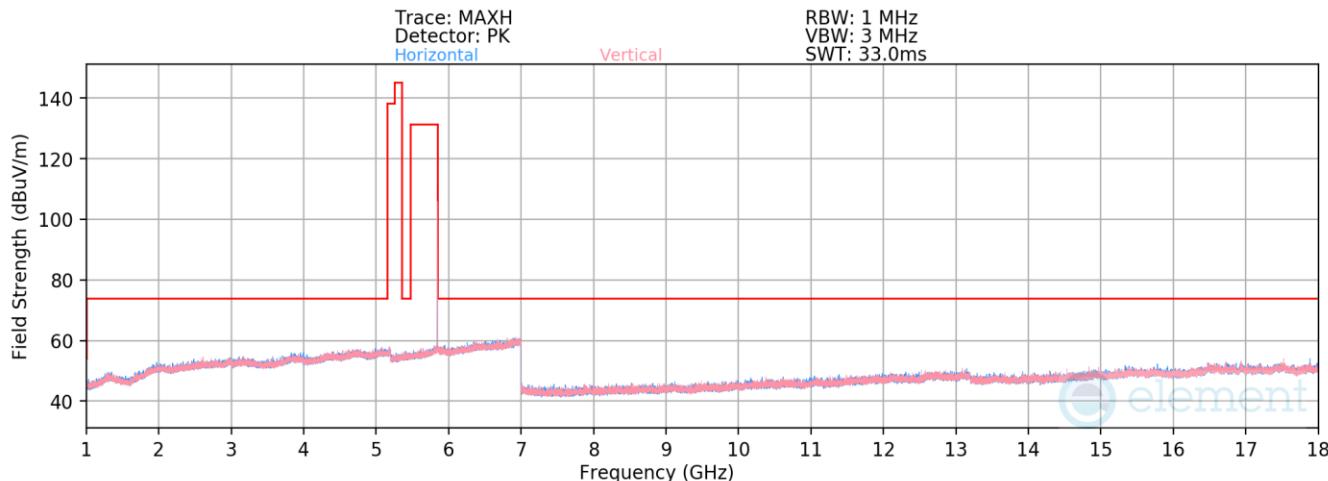
Plot 7-104. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA – 5789MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

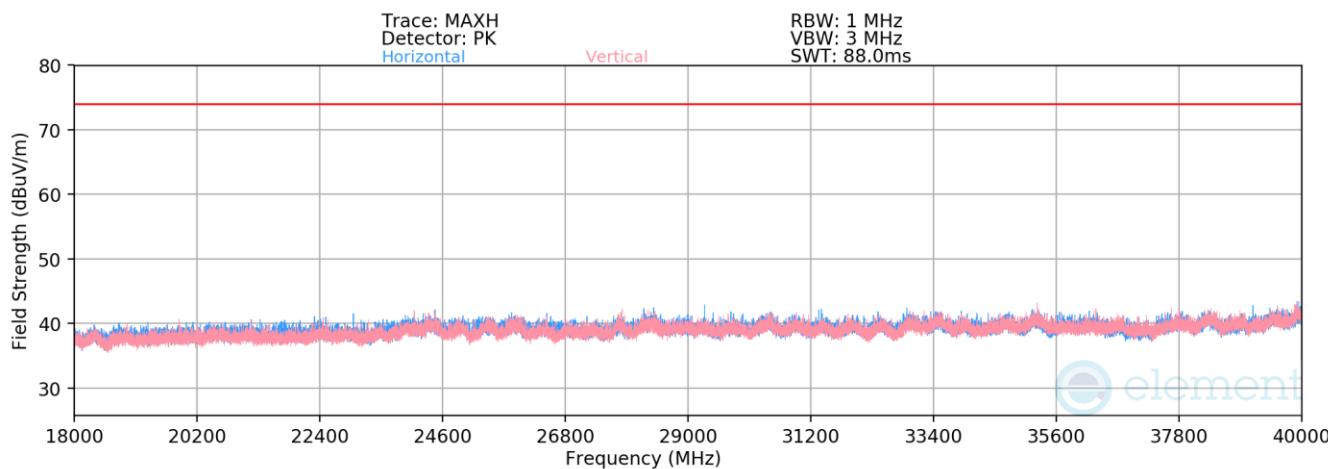
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11578.00	Average	H	-	-	-79.50	9.44	36.94	53.98	-17.04
* 11578.00	Peak	H	-	-	-68.43	9.44	48.01	73.98	-25.97
17367.00	Peak	H	-	-	-71.23	17.05	52.81	68.23	-15.42

Table 7-43. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device			Page 105 of 144



Plot 7-105. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA – 5844MHz)



Plot 7-106. Radiated Spurious Emissions Above 18GHz TxBF (NB UNII HDR4, ePA – 5844MHz)

Mode:	HDR4
Data Rate:	4Mbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	5844MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11688.00	Average	H	-	-	-79.46	9.72	37.26	53.98	-16.72
11688.00	Peak	H	-	-	-67.99	9.85	48.86	73.98	-25.12
17532.00	Peak	V	-	-	-72.07	18.25	53.18	68.23	-15.05

Table 7-44. Radiated Spurious Emissions Measurements TxBF

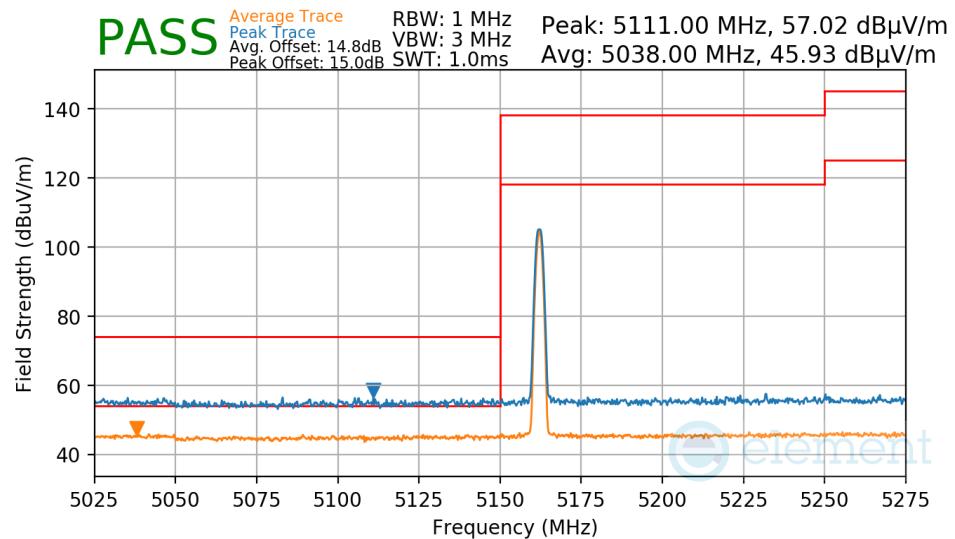
FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device					Page 106 of 144

7.6.3 Radiated Band Edge Measurements

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Antenna 5T

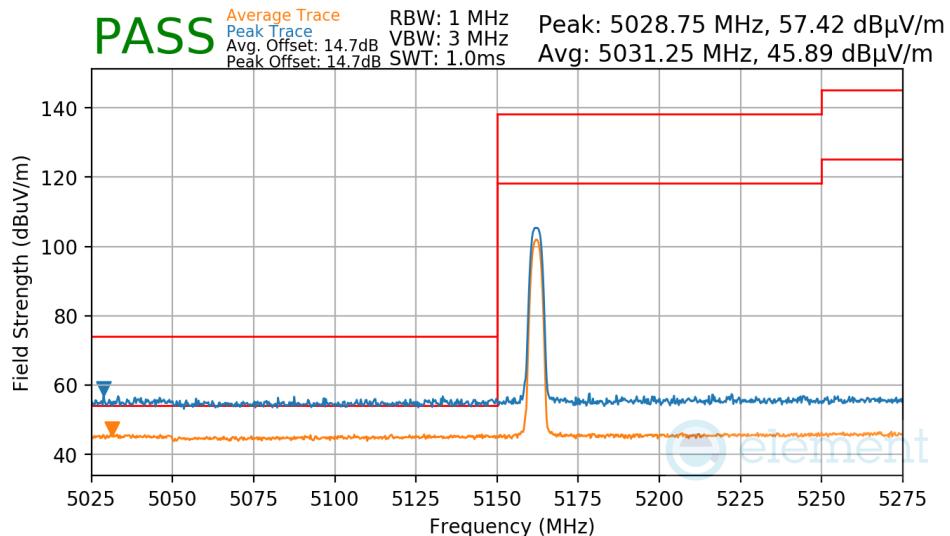
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-107. Radiated Lower Band Edge Measurement Antenna 5T

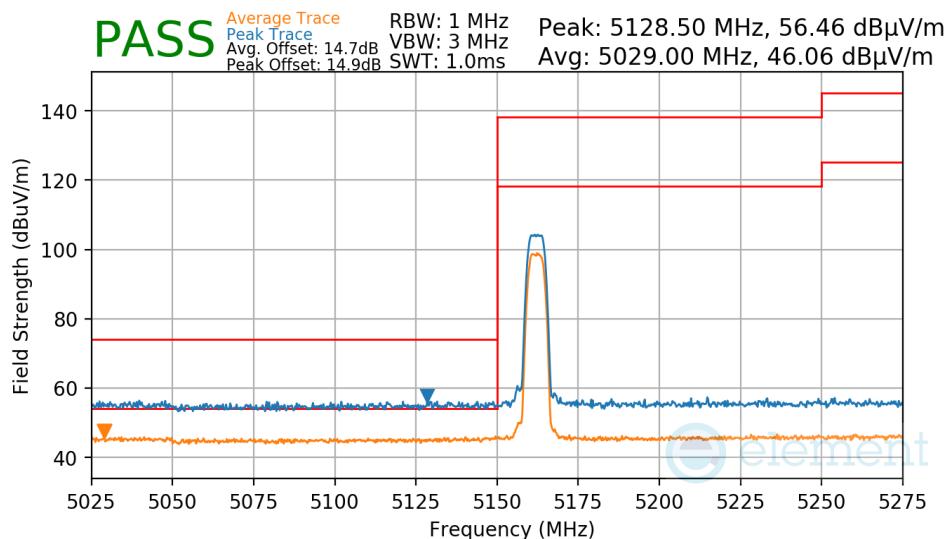
FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device	Page 107 of 144

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-108. Radiated Lower Band Edge Measurement Antenna 5T

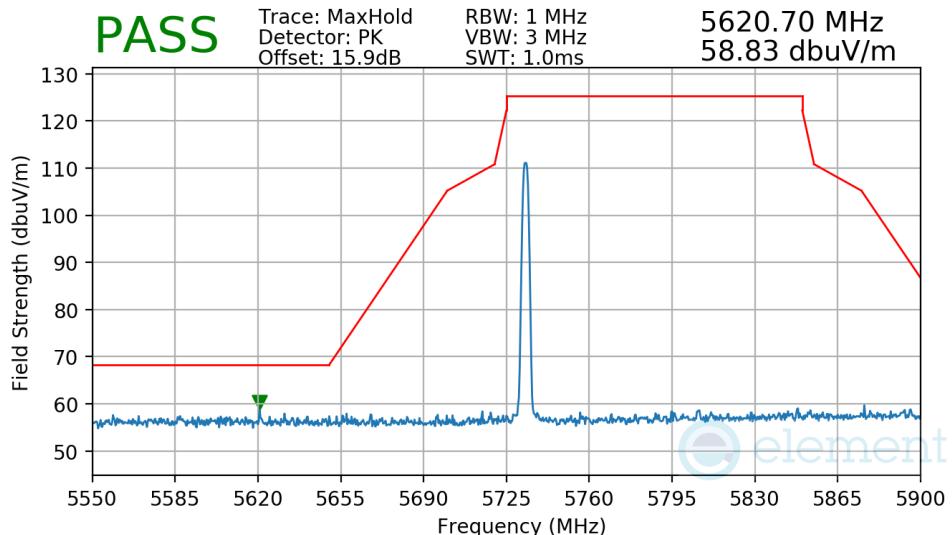
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-109. Radiated Lower Band Edge Measurement Antenna 5T

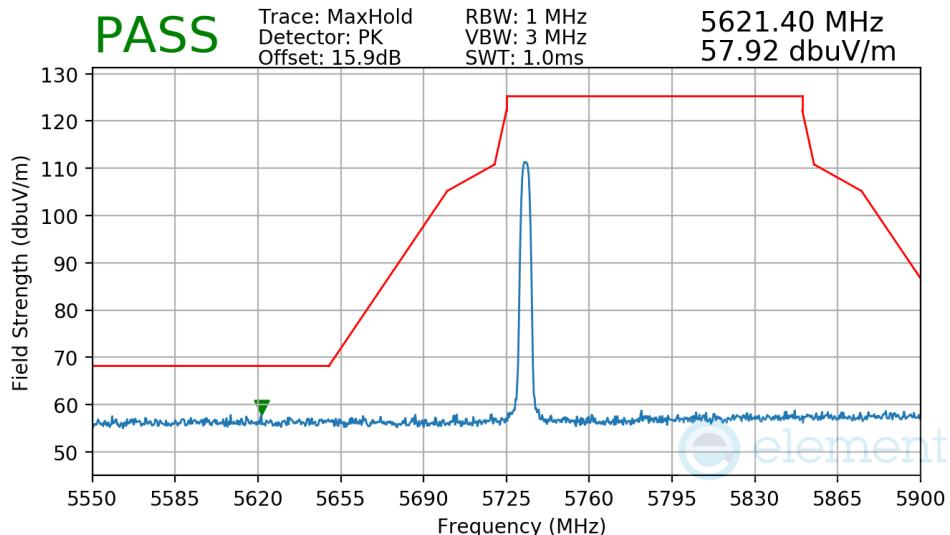
FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device	Page 108 of 144

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-110. Radiated Lower Band Edge Measurement Antenna 5T

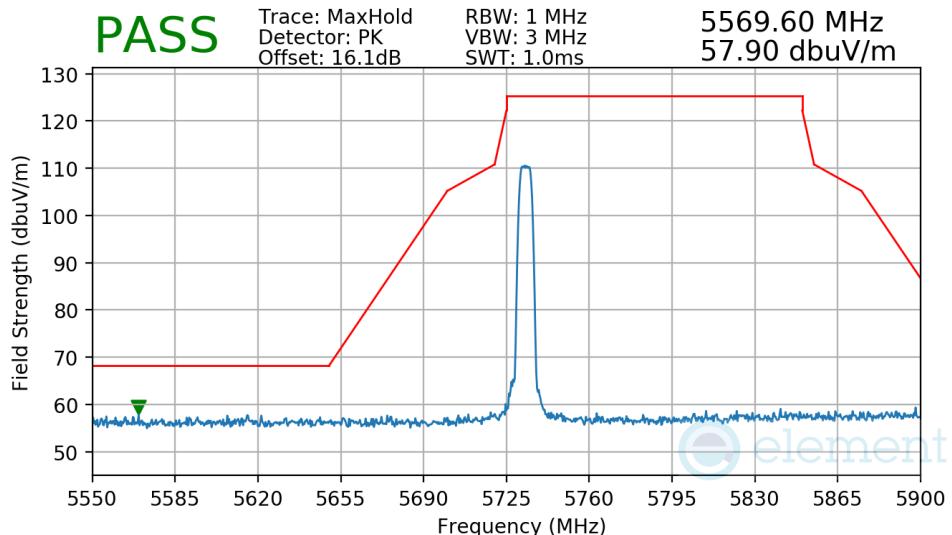
Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-111. Radiated Lower Band Edge Measurement Antenna 5T

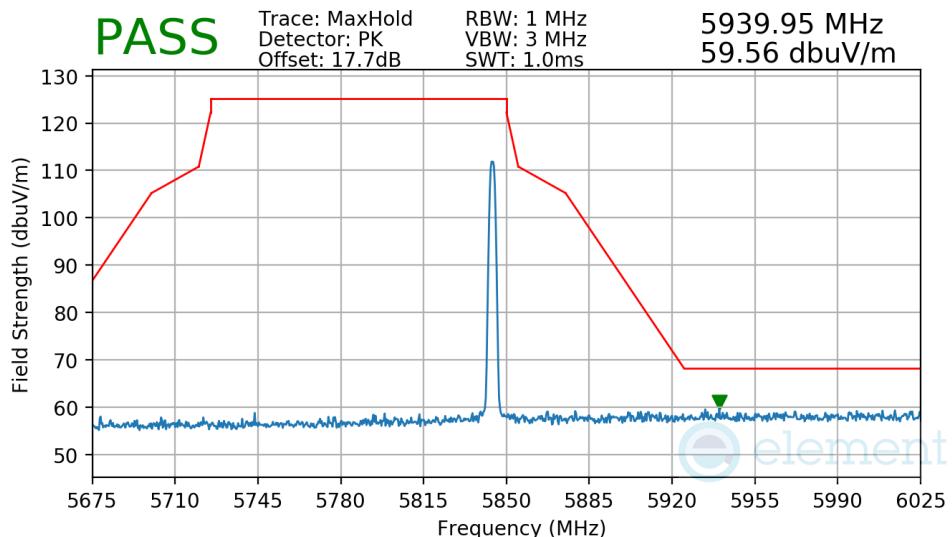
FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device		Page 109 of 144

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-112. Radiated Lower Band Edge Measurement Antenna 5T

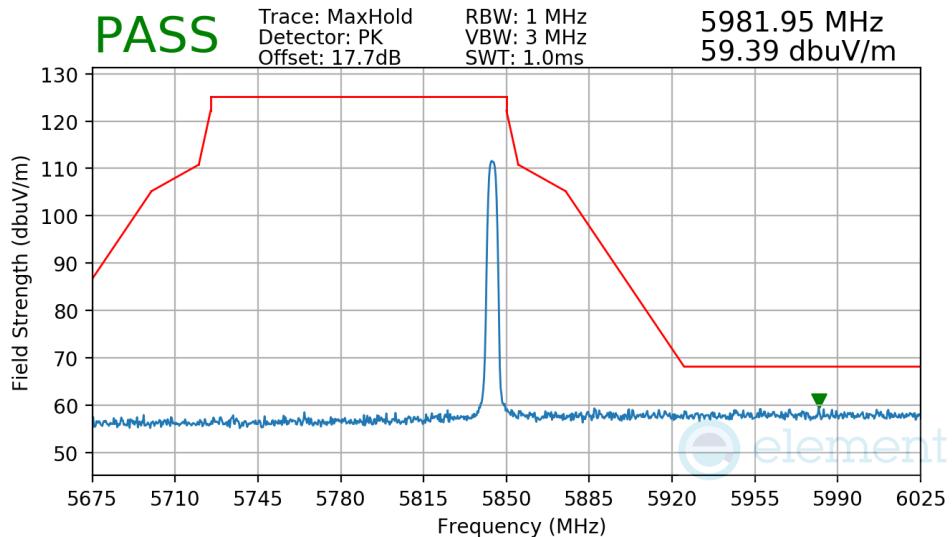
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-113. Radiated Upper Band Edge Measurement Antenna 5T

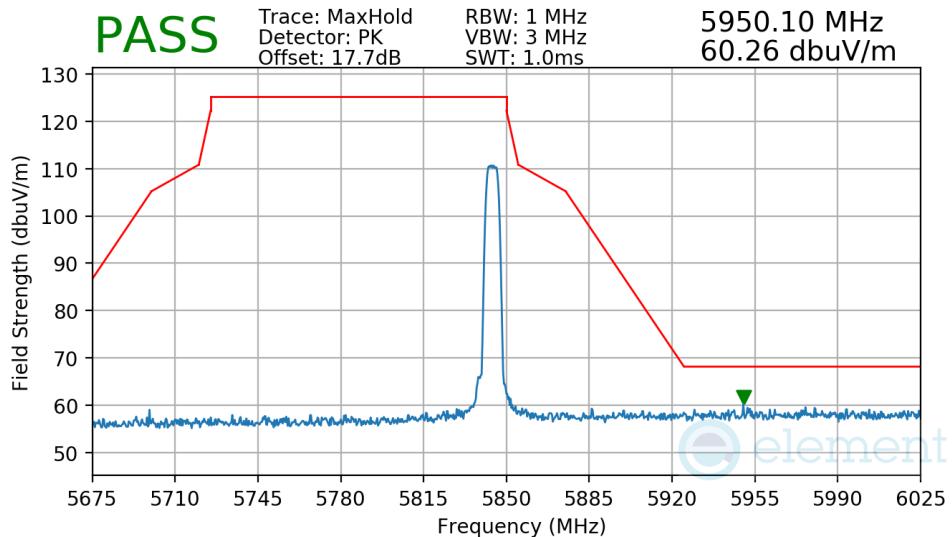
FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device	Page 110 of 144	

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-114. Radiated Upper Band Edge Measurement Antenna 5T

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-115. Radiated Upper Band Edge Measurement Antenna 5T

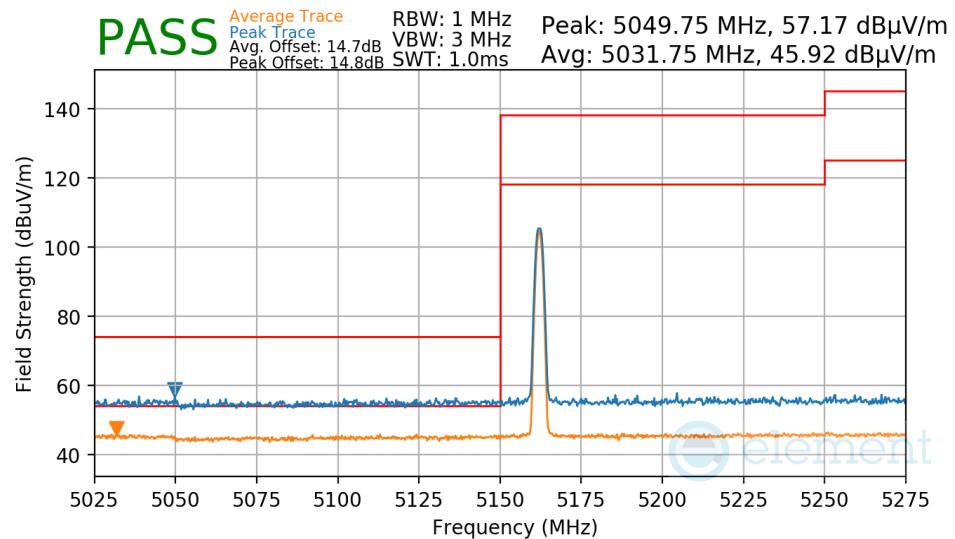
FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device	Page 111 of 144

Radiated Band Edge Measurements

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Antenna 3b

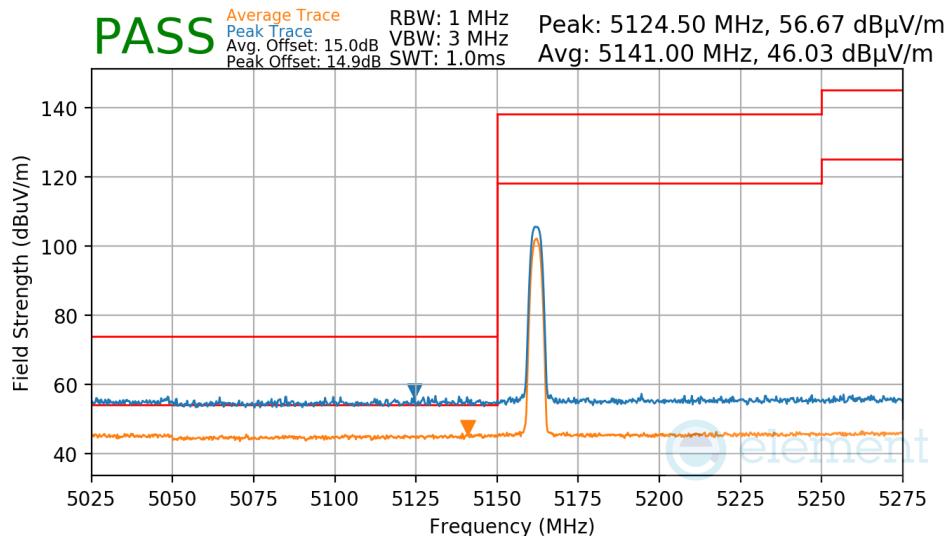
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-116. Radiated Lower Band Edge Measurement Antenna 3b

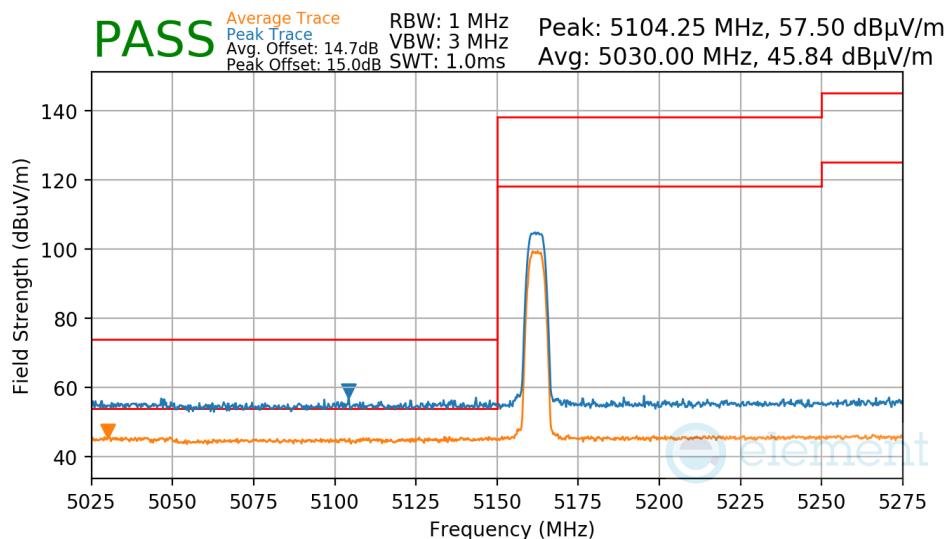
FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device	Page 112 of 144

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-117. Radiated Lower Band Edge Measurement Antenna 3b

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-118. Radiated Lower Band Edge Measurement Antenna 3b

FCC ID: BCGA3269		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210075-19-R1.BCG	Test Dates: 10/25/2024 - 1/10/2025	EUT Type: Tablet Device		Page 113 of 144