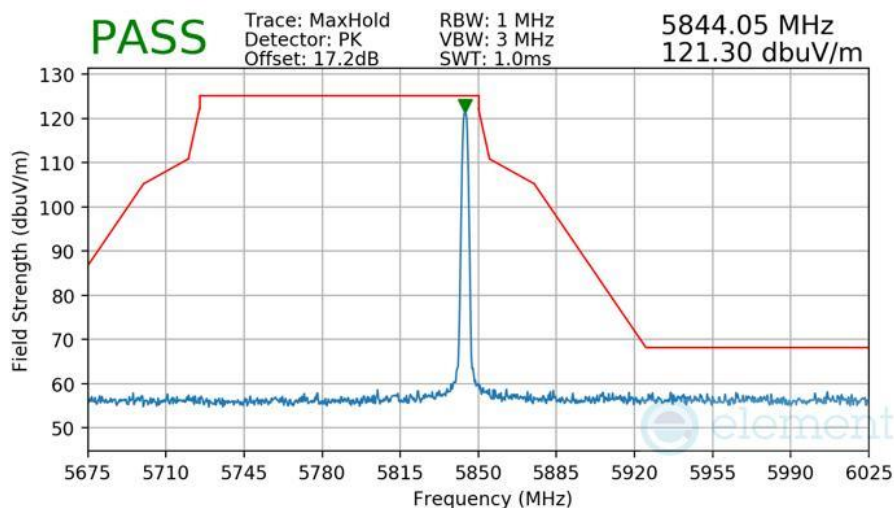
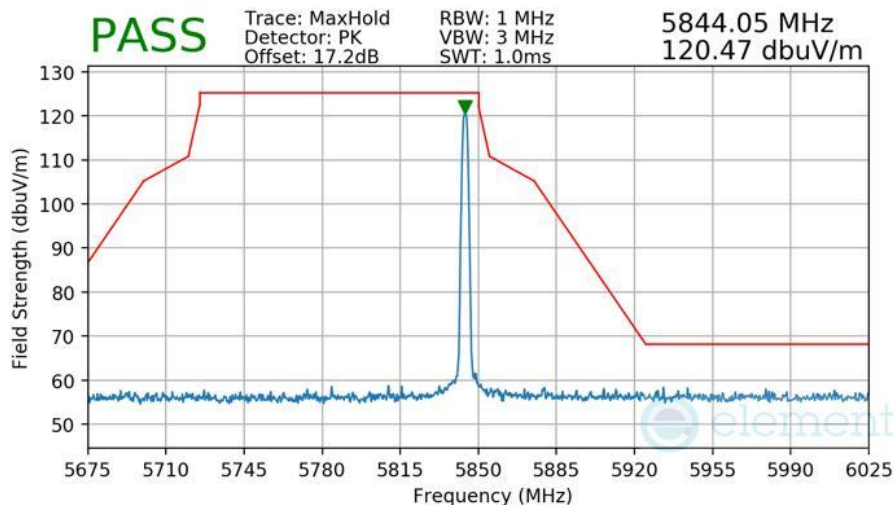


Mode	BDR
Power Scheme	ePA
Distance of Measurement	3 Meters
Operating Frequency	5844MHz



Plot 7-662 Radiated Upper Band Edge Measurement TxBF Primary

Mode	LE1M
Power Scheme	ePA
Distance of Measurement	3 Meters
Operating Frequency	5844MHz

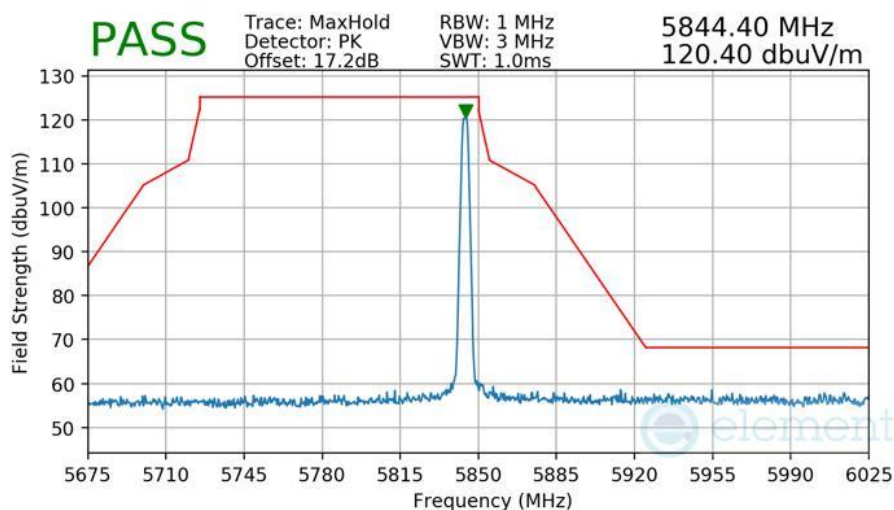


Plot 7-663 Radiated Upper Band Edge Measurement TxBF Primary

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 404 of 439

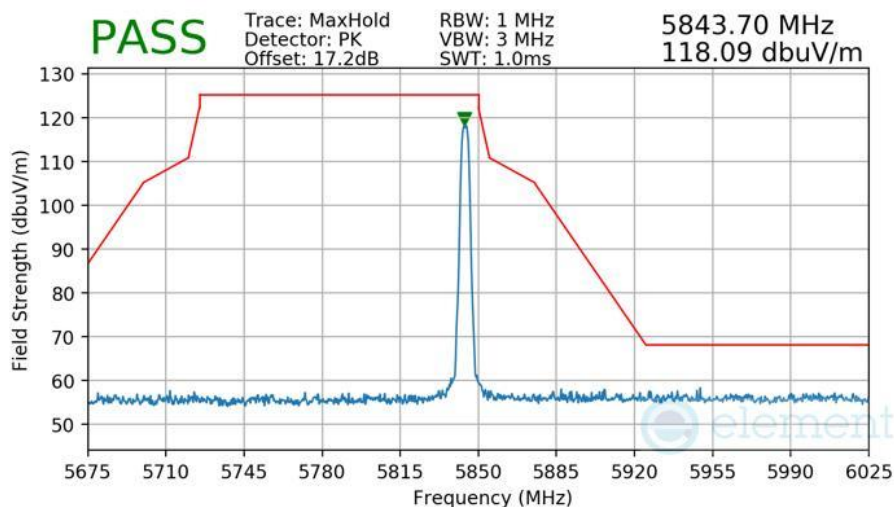
V 11.0 06/2025

Mode LE2M
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-664 Radiated Upper Band Edge Measurement TxBF Primary

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

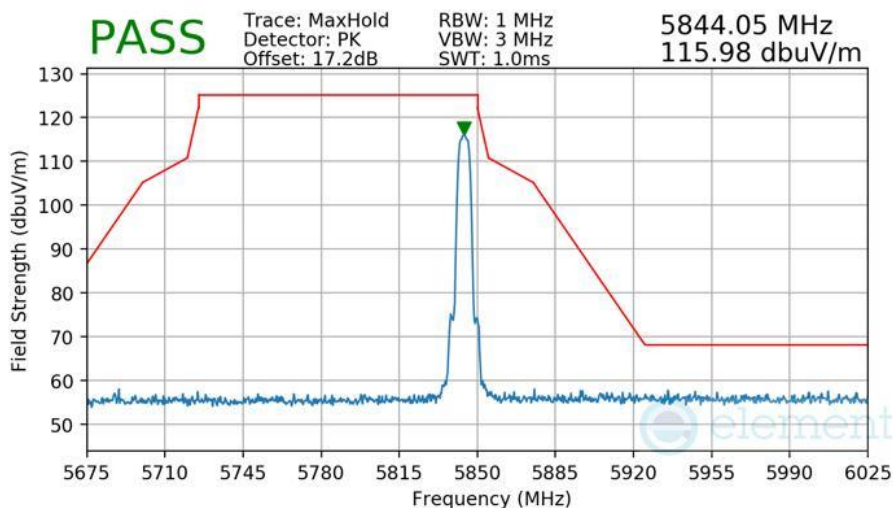


Plot 7-665 Radiated Upper Band Edge Measurement TxBF Primary

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device		Page 405 of 439

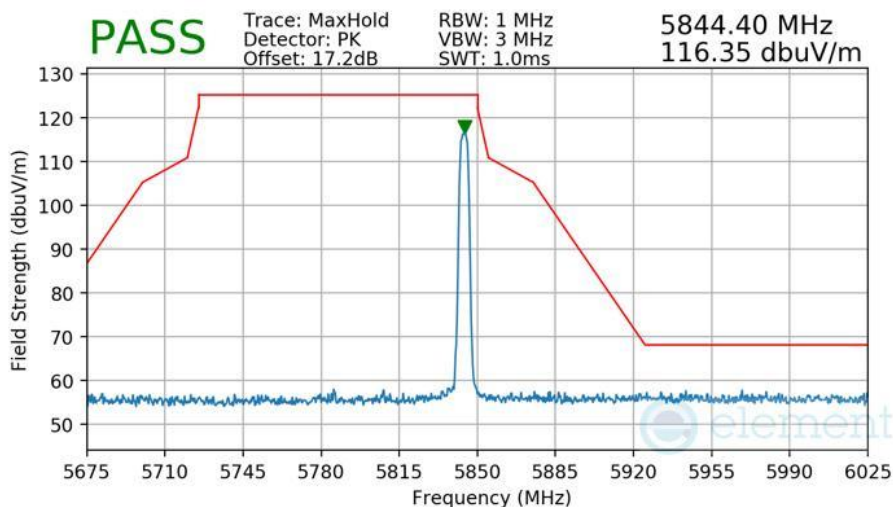
V 11.0 06/2025

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



Plot 7-666 Radiated Upper Band Edge Measurement TxBF Primary

Mode XHDRPS2
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



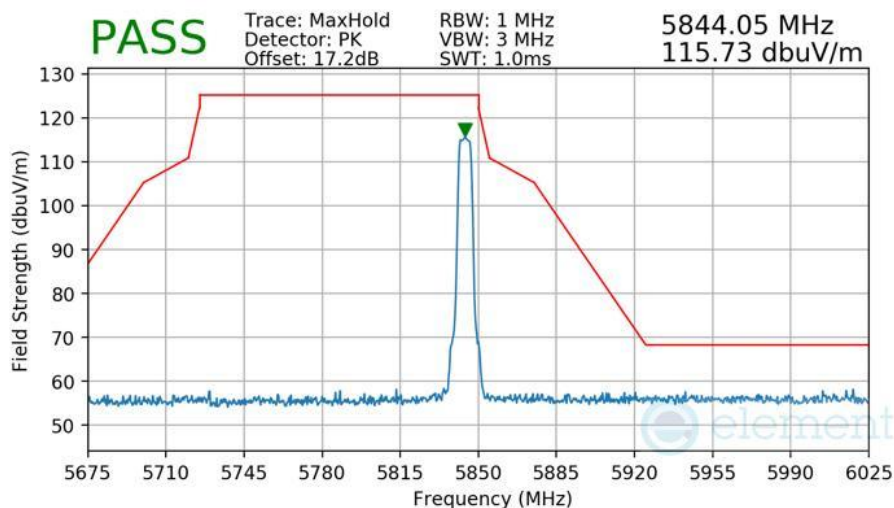
Plot 7-667 Radiated Upper Band Edge Measurement TxBF Primary

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device		Page 406 of 439

V 11.0 06/2025

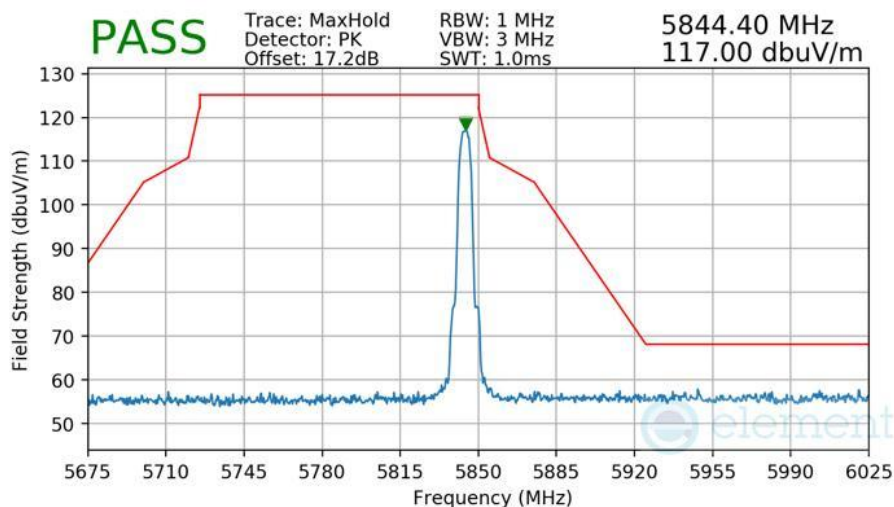
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Mode XHDRPM8
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-668 Radiated Upper Band Edge Measurement TxBF Primary

Mode XHDRPM16
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz

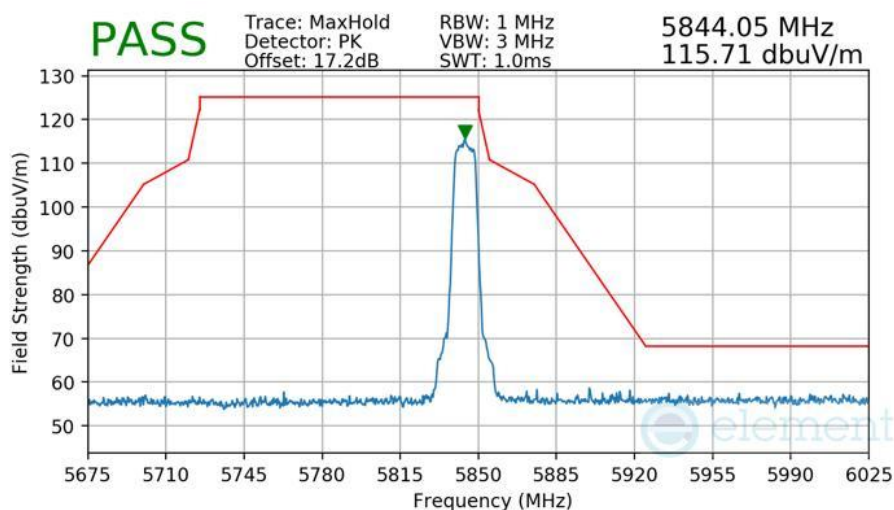


Plot 7-669 Radiated Upper Band Edge Measurement TxBF Primary

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 407 of 439

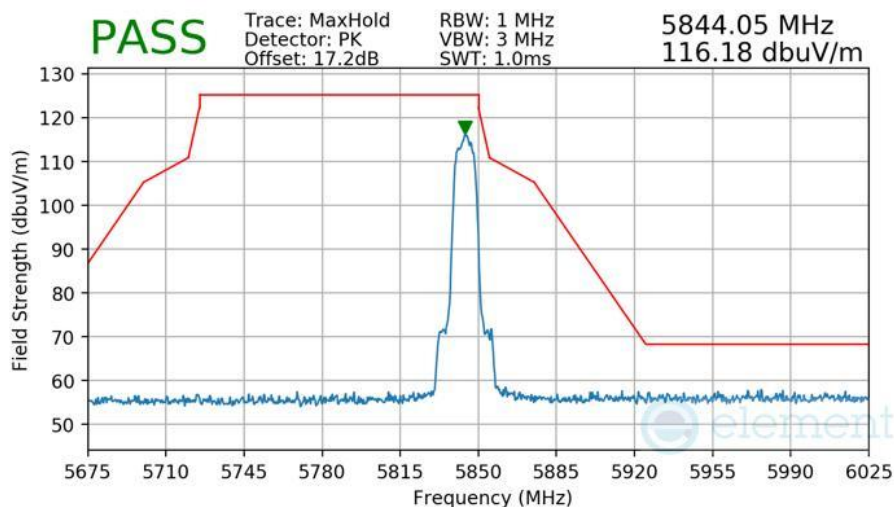
V 11.0 06/2025

Mode XHDRPL16
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-670 Radiated Upper Band Edge Measurement TxBF Primary

Mode XHDRPL32
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz

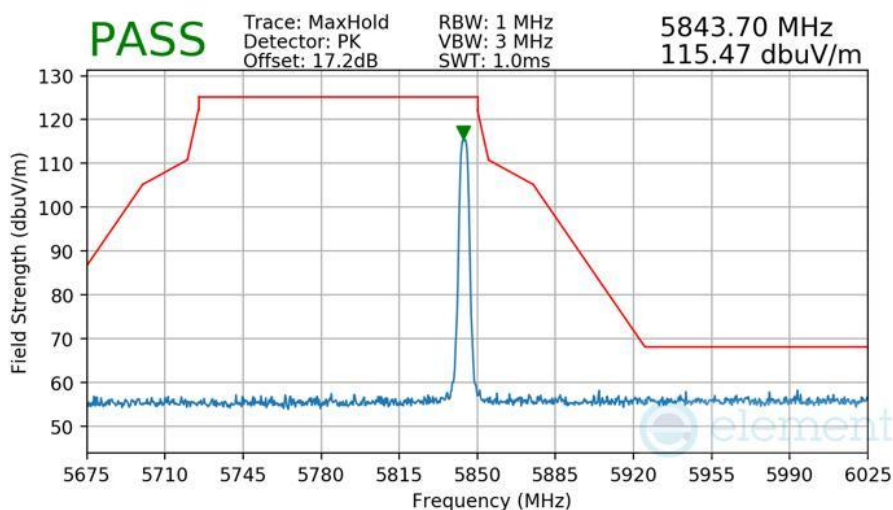


Plot 7-671 Radiated Upper Band Edge Measurement TxBF Primary

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 408 of 439

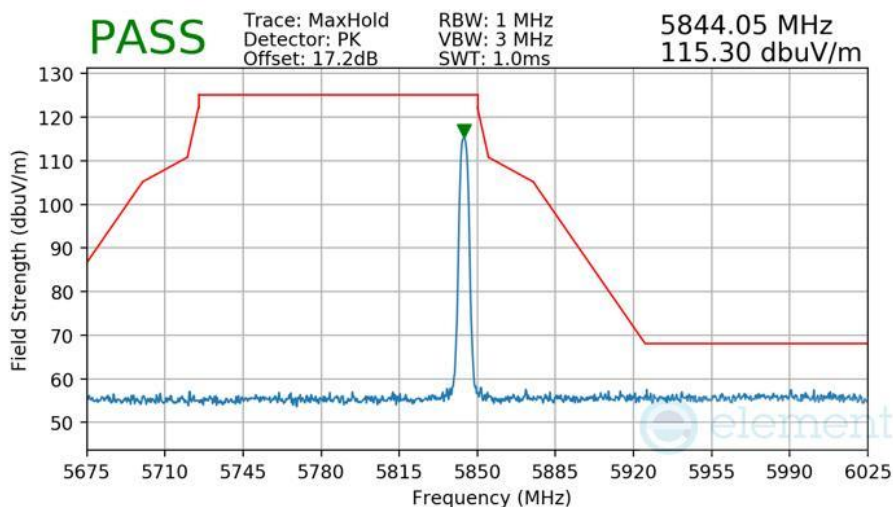
V 11.0 06/2025

Mode HDT2
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-672 Radiated Upper Band Edge Measurement TxBF Primary

Mode HDT8
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



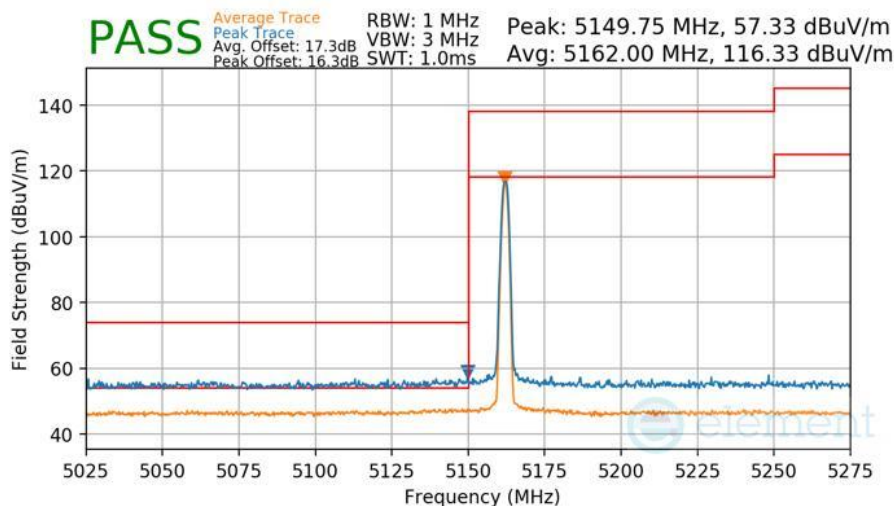
Plot 7-673 Radiated Upper Band Edge Measurement TxBF Primary

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 409 of 439

V 11.0 06/2025

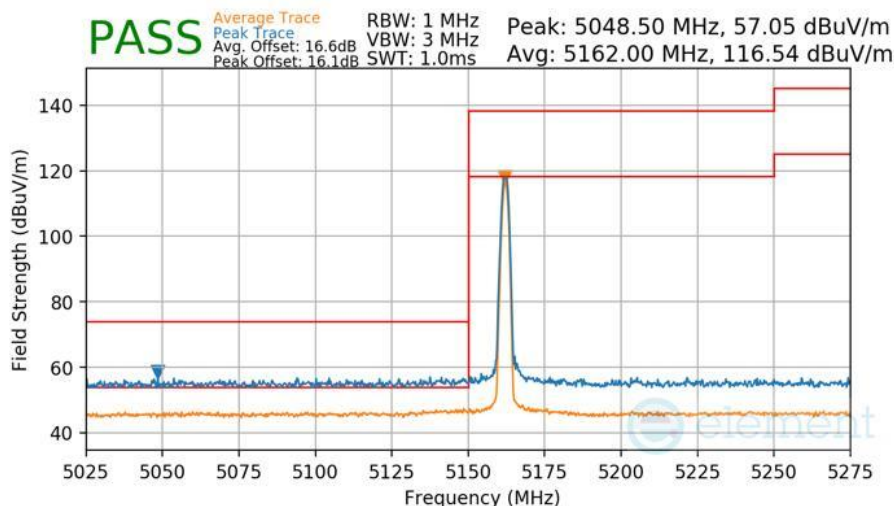
7.6.11 TxBF Diversity Radiated Band Edge Measurements (U-NII-1)

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



Plot 7-674 Radiated Lower Band Edge Measurement TxBF Diversity

Mode	LE1M
Power Scheme	ePA
Distance of Measurement	3 Meters
Operating Frequency	5162MHz

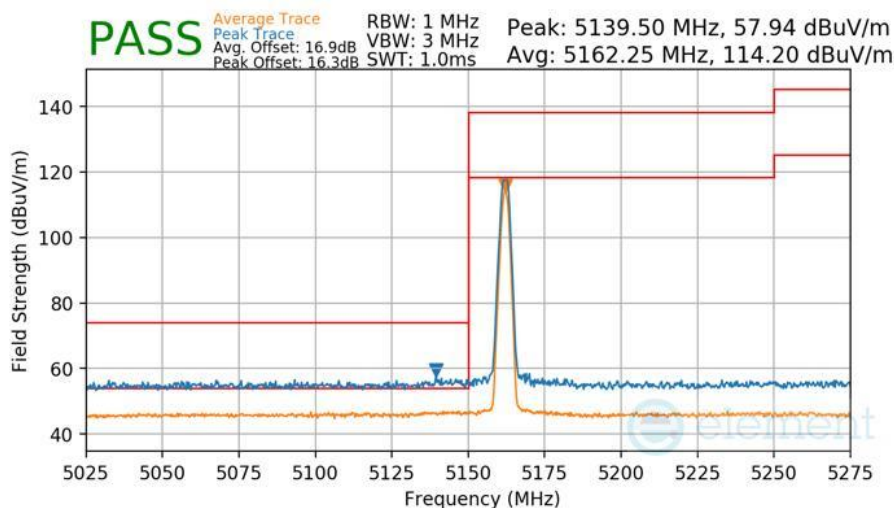


Plot 7-675 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 410 of 439

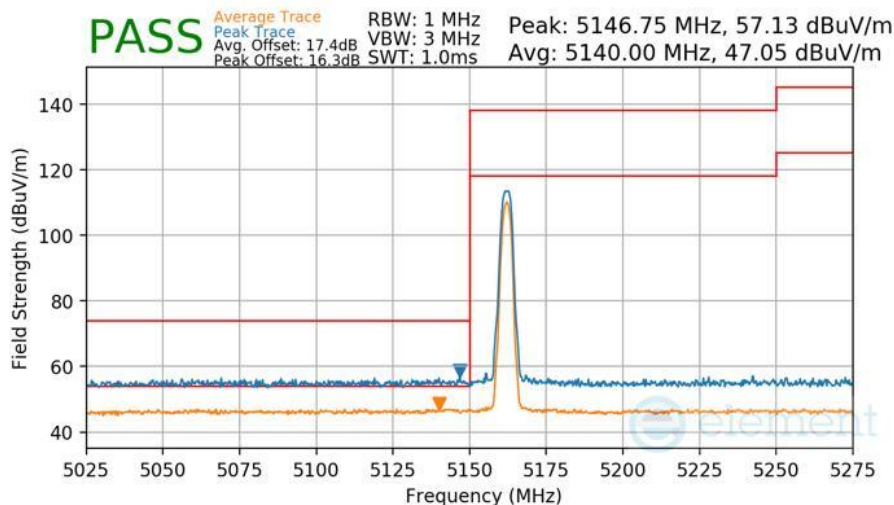
V 11.0 06/2025

Mode LE2M
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5162MHz



Plot 7-676 Radiated Lower Band Edge Measurement TxBF Diversity

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

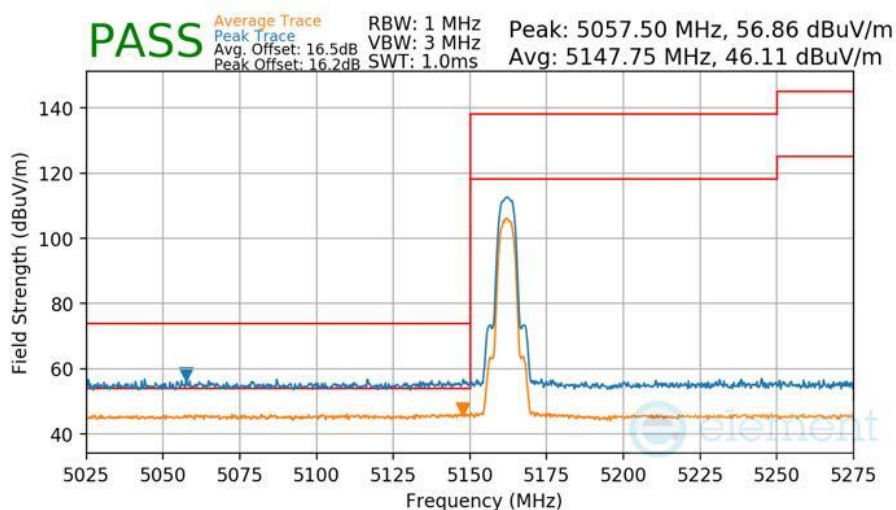


Plot 7-677 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 411 of 439

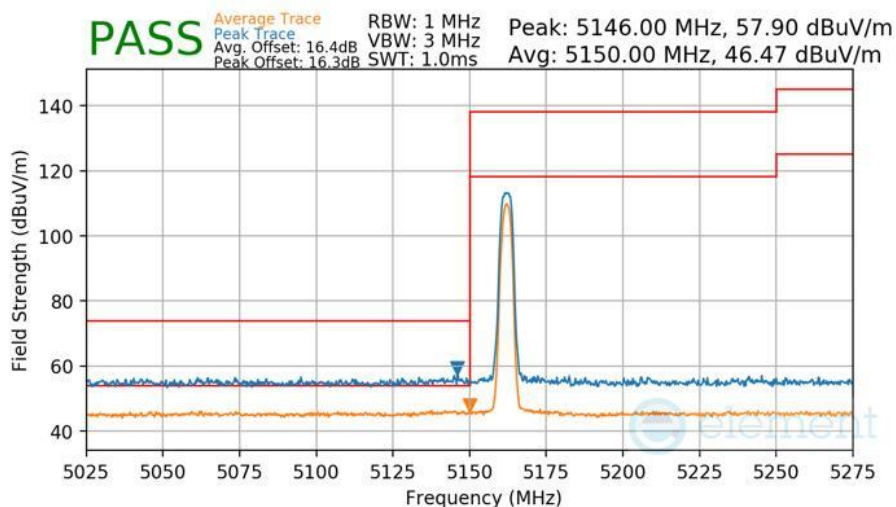
V 11.0 06/2025

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



Plot 7-678 Radiated Lower Band Edge Measurement TxBF Diversity

Mode XHDRPS2
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5162MHz

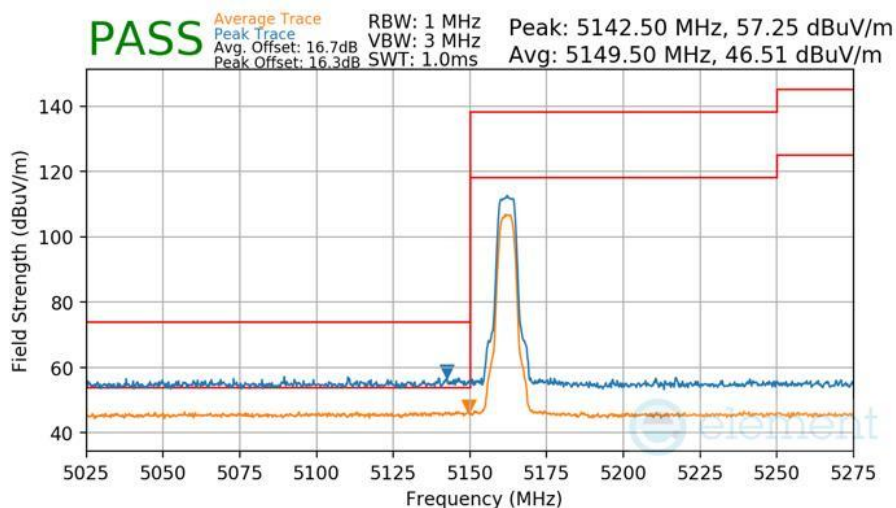


Plot 7-679 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 412 of 439

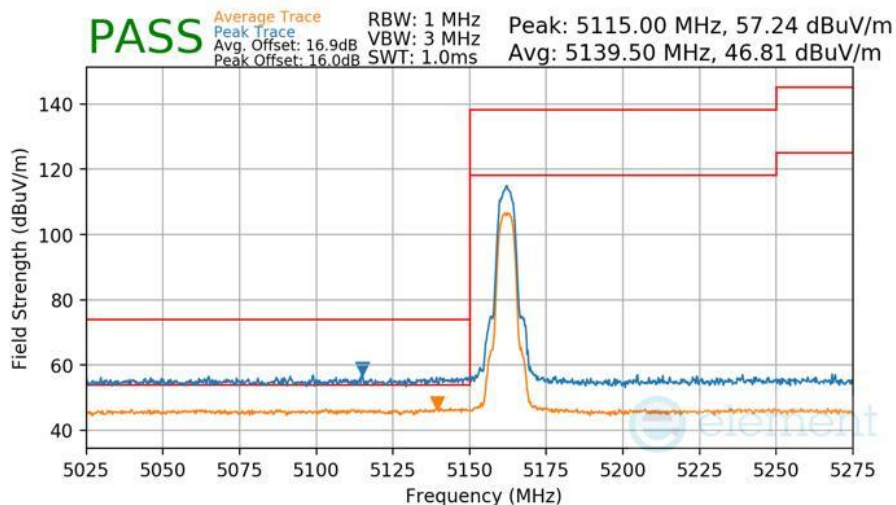
V 11.0 06/2025

Mode XHDRPM8
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5162MHz



Plot 7-680 Radiated Lower Band Edge Measurement TxBF Diversity

Mode XHDRPM16
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5162MHz

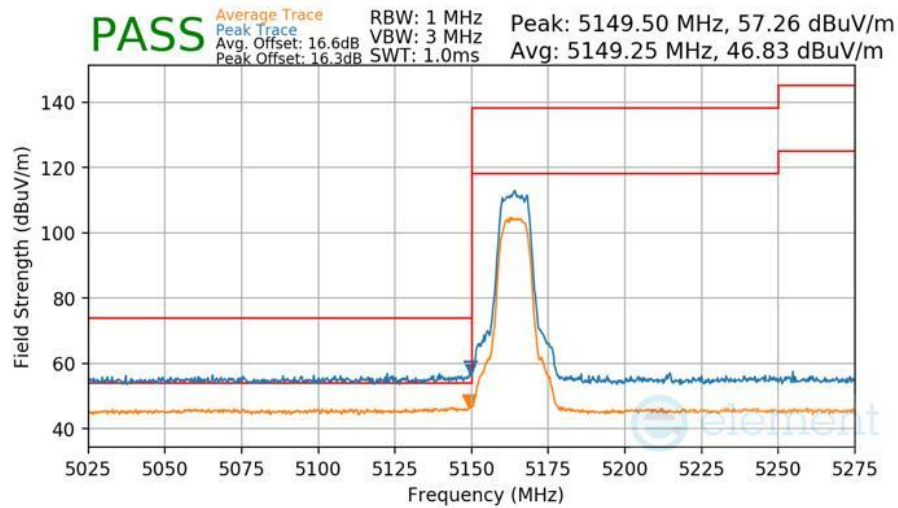


Plot 7-681 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 413 of 439

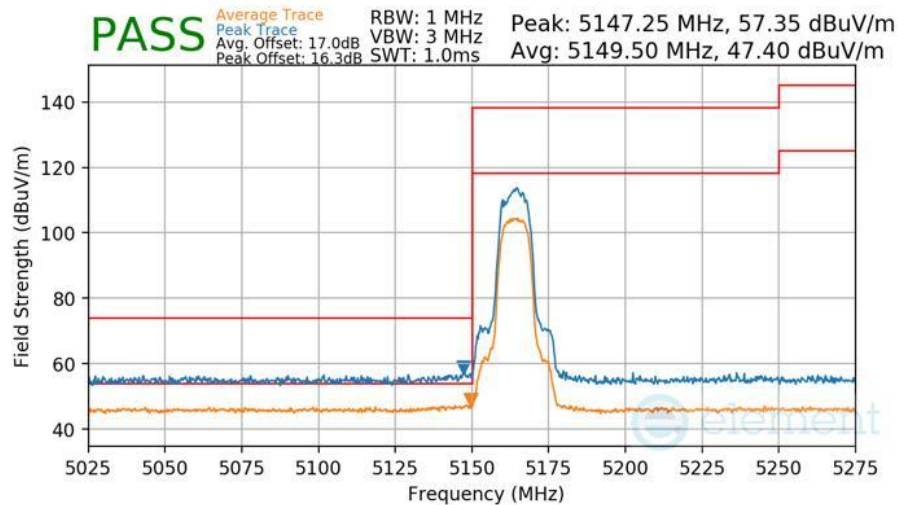
V 11.0 06/2025

Mode XHDRPL16
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5164MHz



Plot 7-682 Radiated Lower Band Edge Measurement TxBF Diversity

Mode XHDRPL32
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5164MHz

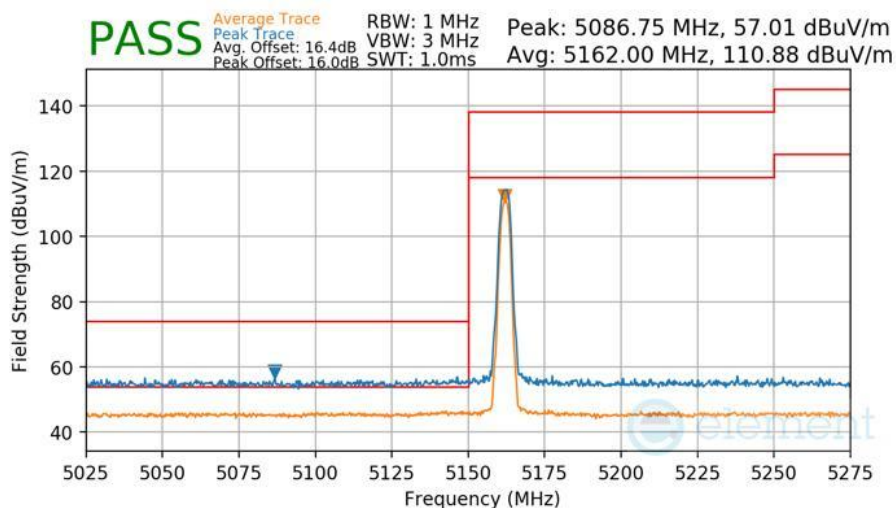


Plot 7-683 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 414 of 439

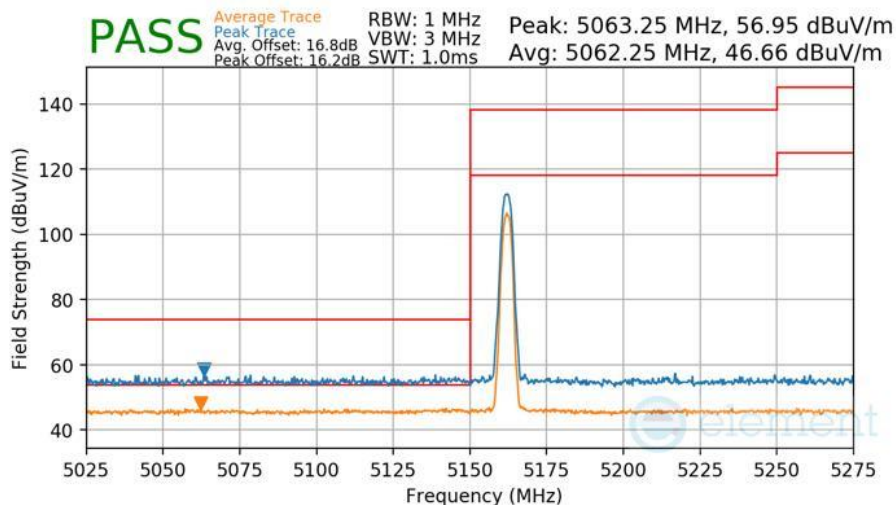
V 11.0 06/2025

Mode HDT2
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5162MHz



Plot 7-684 Radiated Lower Band Edge Measurement TxBF Diversity

Mode HDT8
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5162MHz



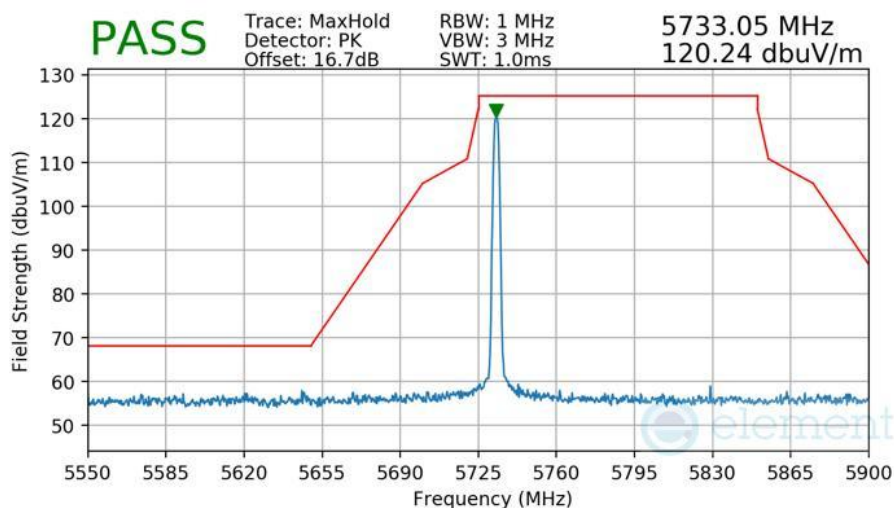
Plot 7-685 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 415 of 439

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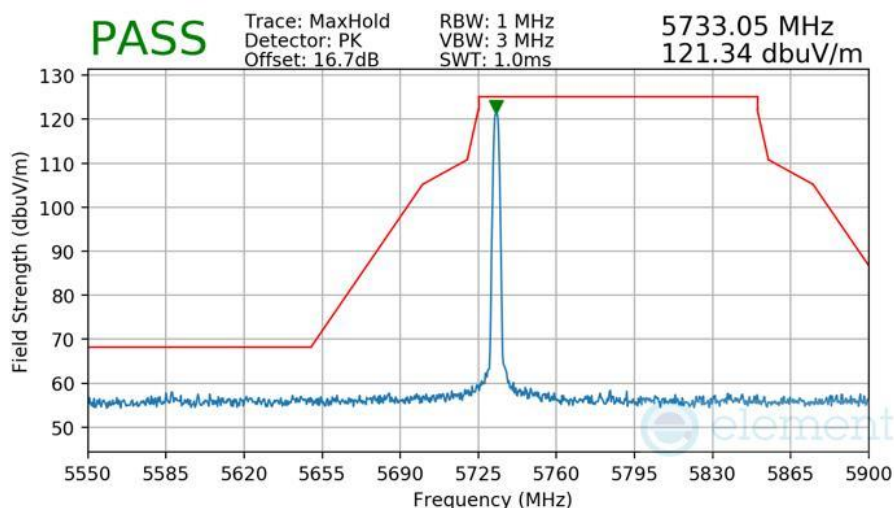
7.6.12 TxBF Diversity Radiated Band Edge Measurements (U-NII-3)

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



Plot 7-686 Radiated Lower Band Edge Measurement TxBF Diversity

Mode	LE1M
Power Scheme	ePA
Distance of Measurement	3 Meters
Operating Frequency	5733MHz

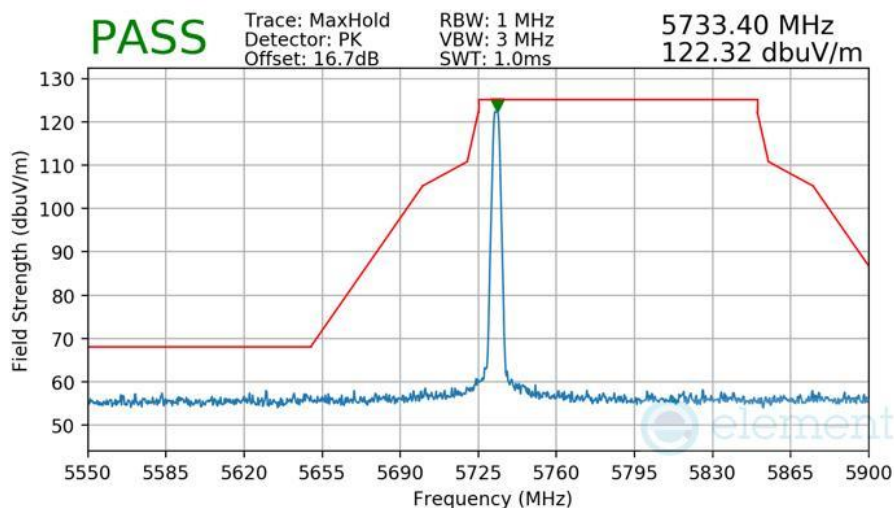


Plot 7-687 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 416 of 439

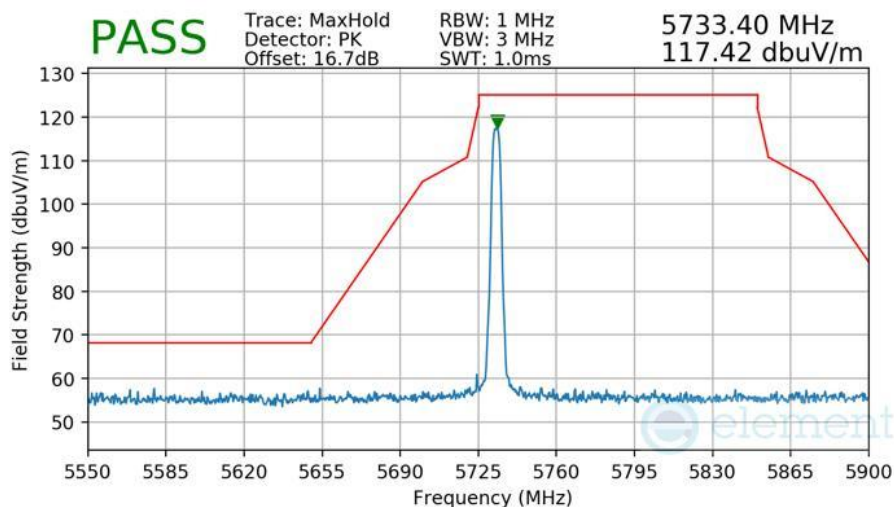
V 11.0 06/2025

Mode LE2M
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5733MHz



Plot 7-688 Radiated Lower Band Edge Measurement TxBF Diversity

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

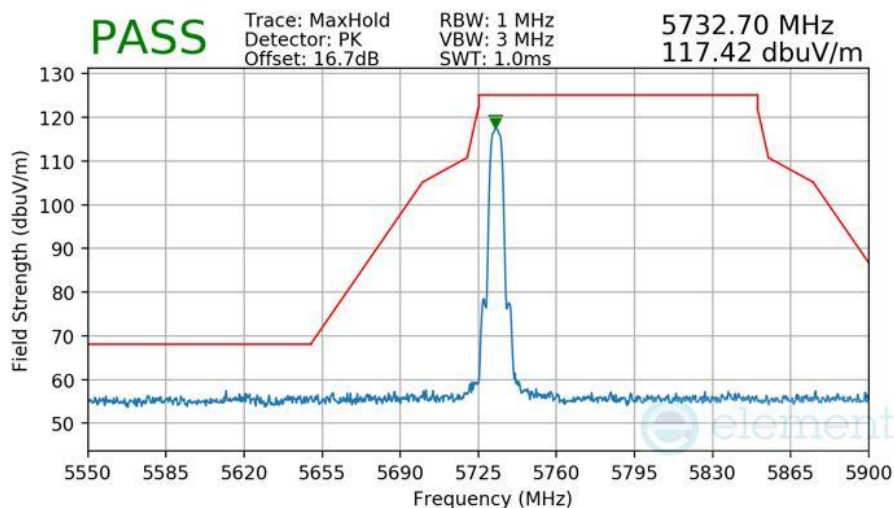


Plot 7-689 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device		Page 417 of 439

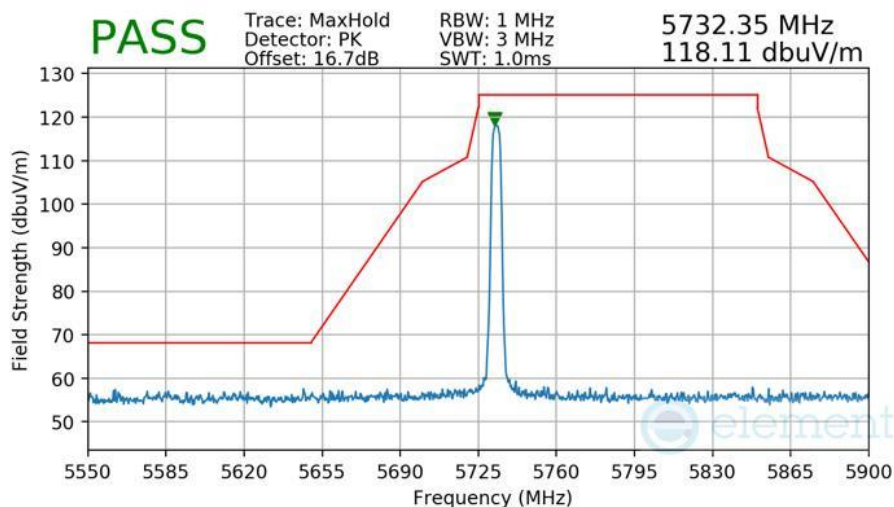
V 11.0 06/2025

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



Plot 7-690 Radiated Lower Band Edge Measurement TxBF Diversity

Mode	XHDRPS2
Power Scheme	ePA
Distance of Measurement	3 Meters
Operating Frequency	5733MHz



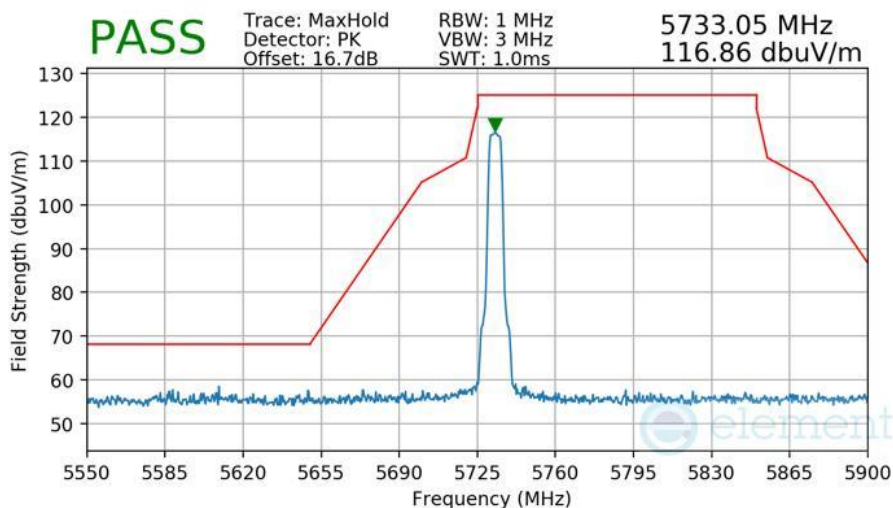
Plot 7-691 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 418 of 439

V 11.0 06/2025

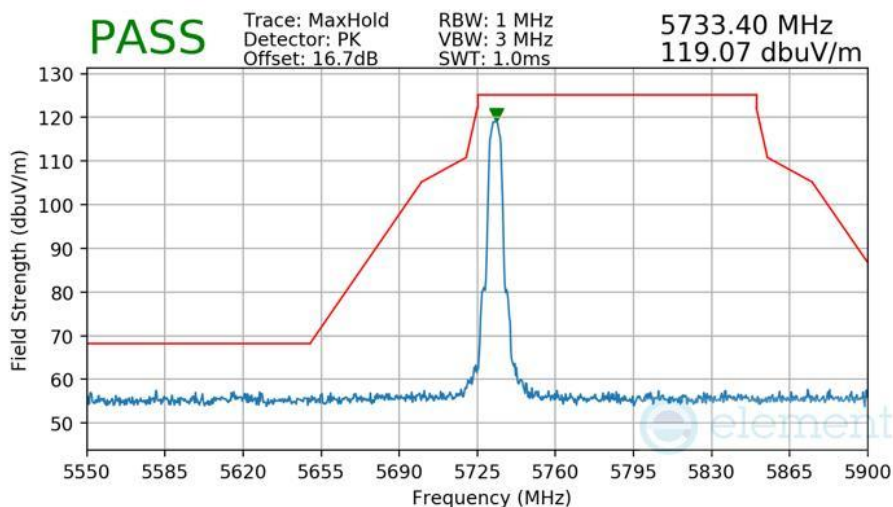
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Mode XHDRPM8
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5733MHz



Plot 7-692 Radiated Lower Band Edge Measurement TxBF Diversity

Mode XHDRPM16
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5733MHz

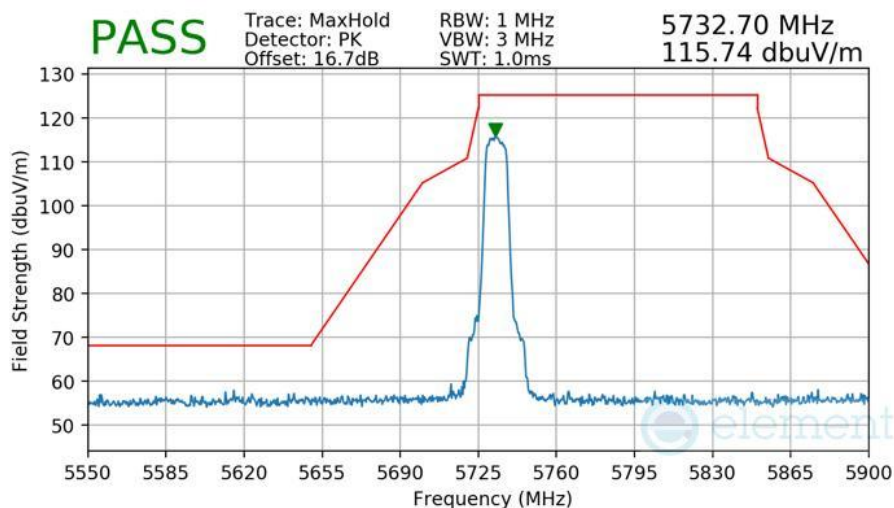


Plot 7-693 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 419 of 439

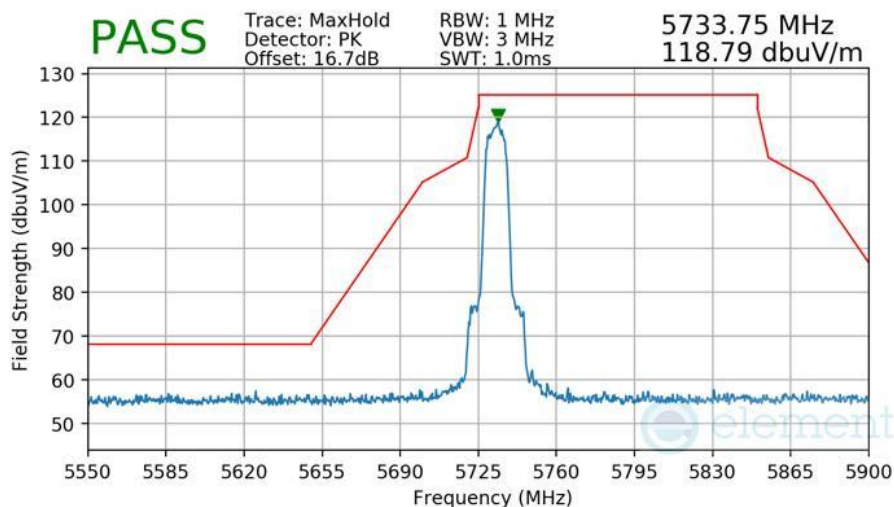
V 11.0 06/2025

Mode XHDRPL16
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5733MHz



Plot 7-694 Radiated Lower Band Edge Measurement TxBF Diversity

Mode XHDRPL32
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5733MHz

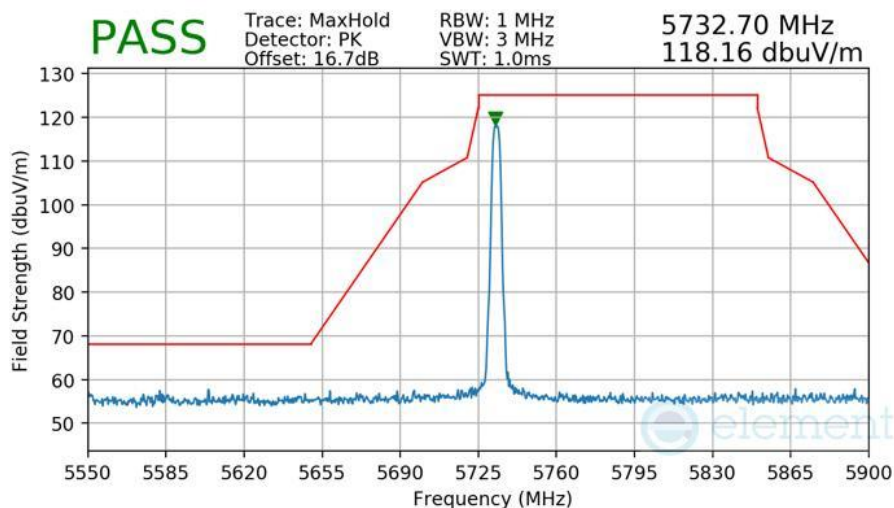


Plot 7-695 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 420 of 439

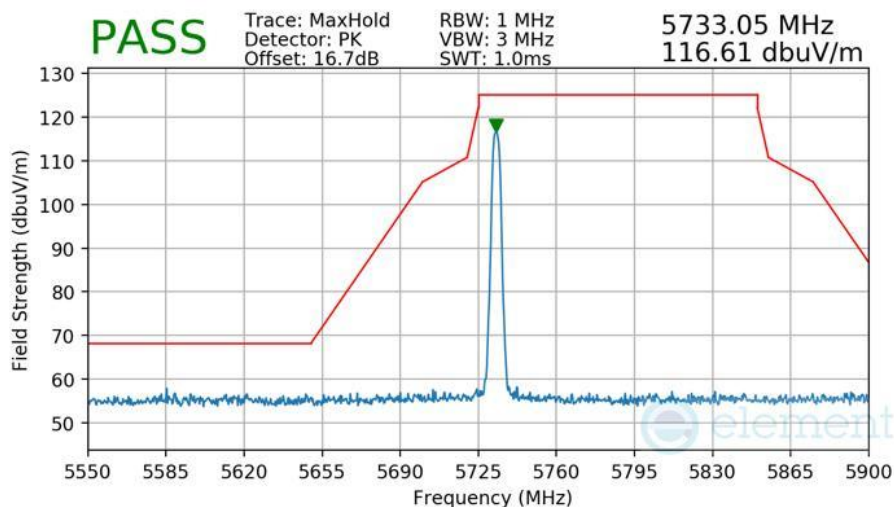
V 11.0 06/2025

Mode HDT2
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5733MHz



Plot 7-696 Radiated Lower Band Edge Measurement TxBF Diversity

Mode HDT8
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5733MHz

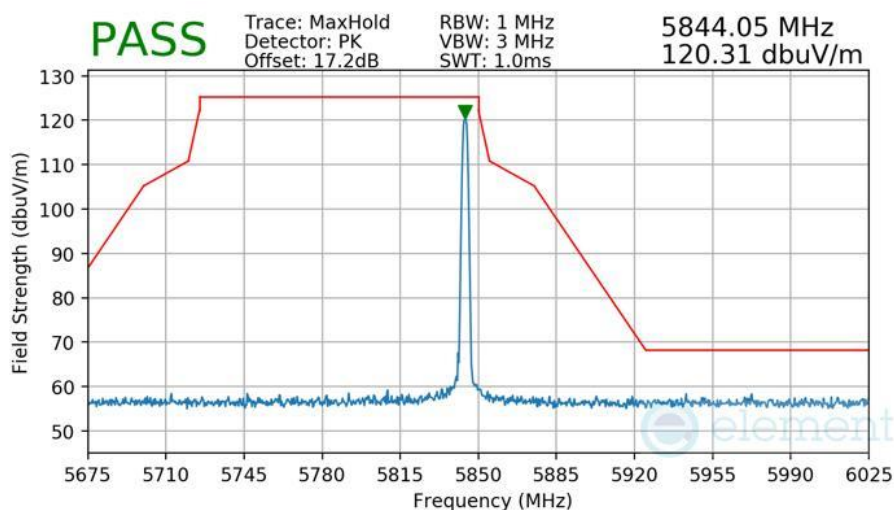


Plot 7-697 Radiated Lower Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 421 of 439

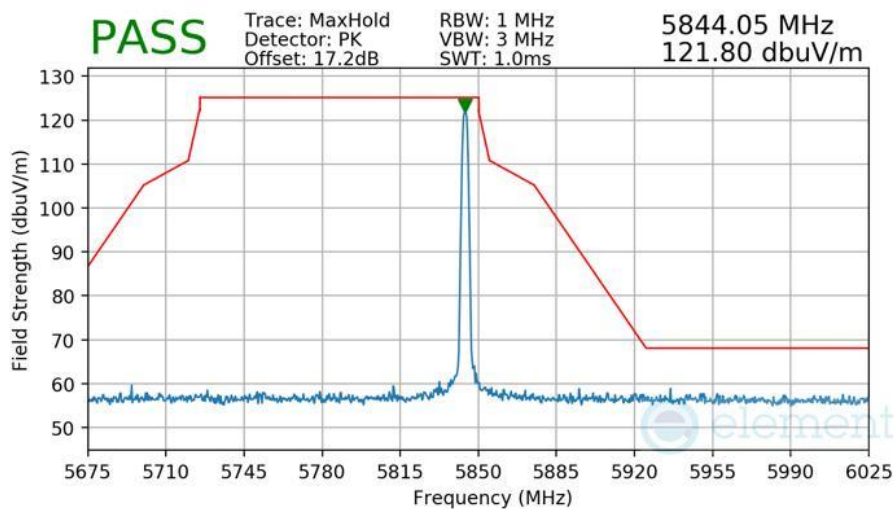
V 11.0 06/2025

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



Plot 7-698 Radiated Upper Band Edge Measurement TxBF Diversity

Mode	LE1M
Power Scheme	ePA
Distance of Measurement	3 Meters
Operating Frequency	5844MHz



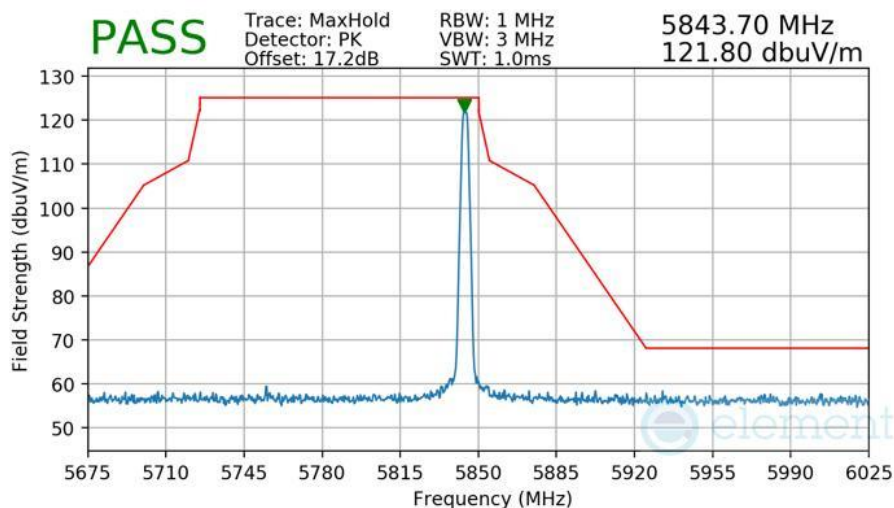
Plot 7-699 Radiated Upper Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 422 of 439

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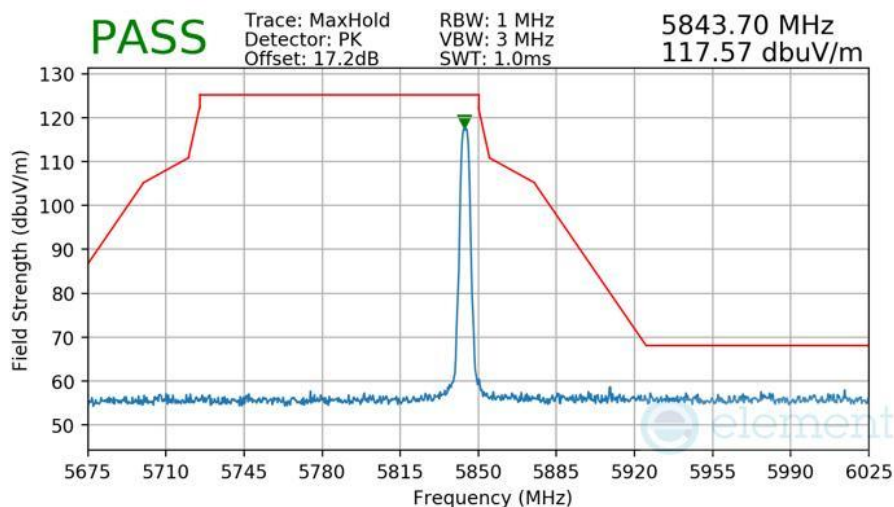
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Mode LE2M
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-700 Radiated Upper Band Edge Measurement TxBF Diversity

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

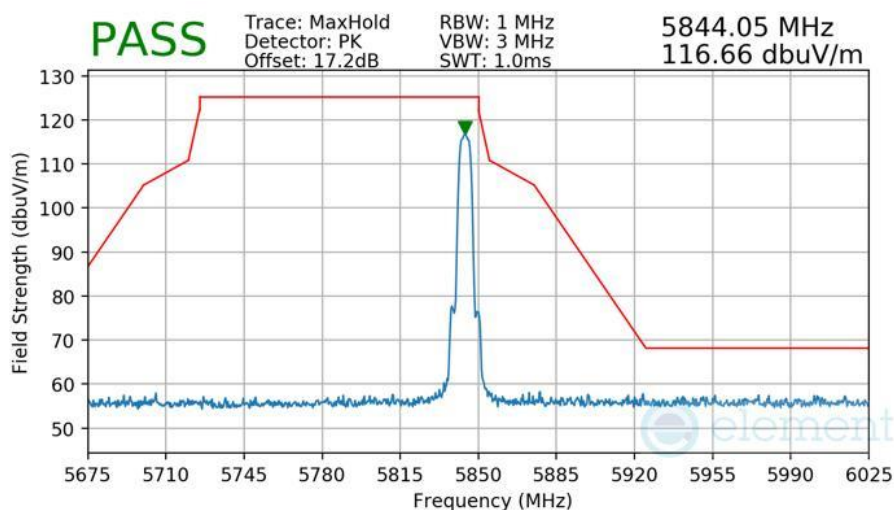


Plot 7-701 Radiated Upper Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device		Page 423 of 439

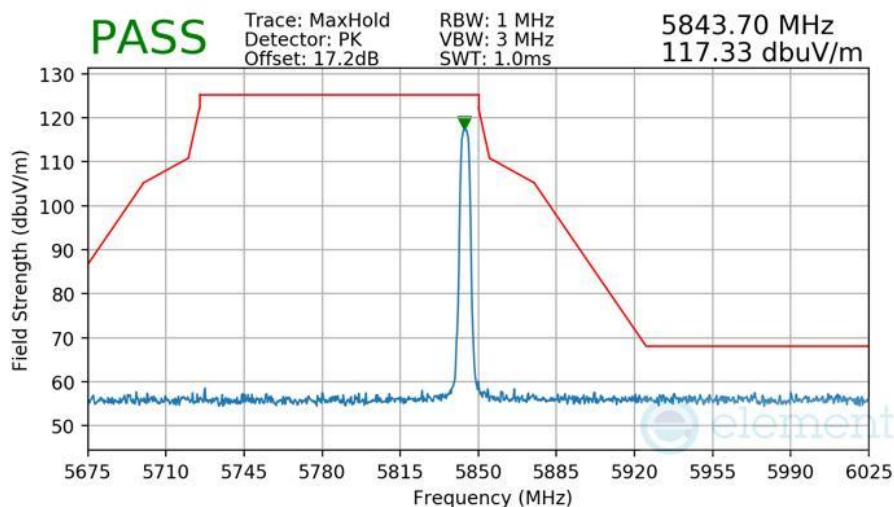
V 11.0 06/2025

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



Plot 7-702 Radiated Upper Band Edge Measurement TxBF Diversity

Mode XHDRPS2
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz

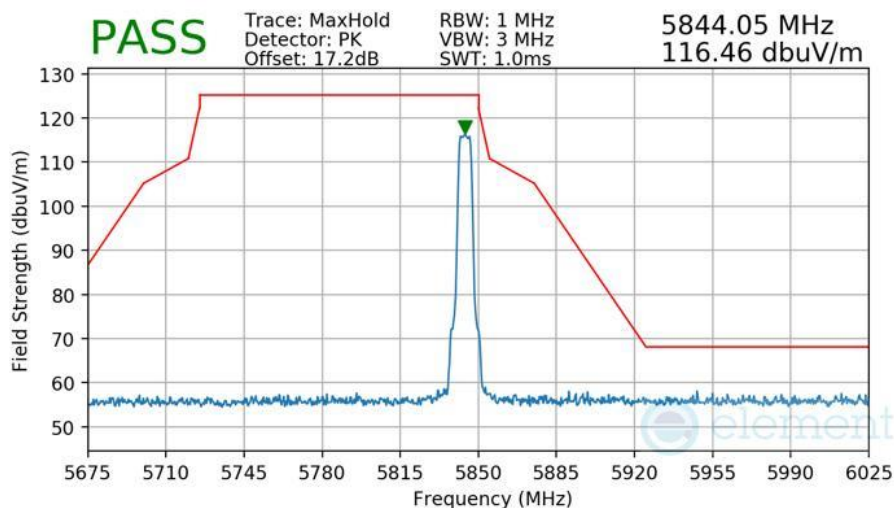


Plot 7-703 Radiated Upper Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 424 of 439

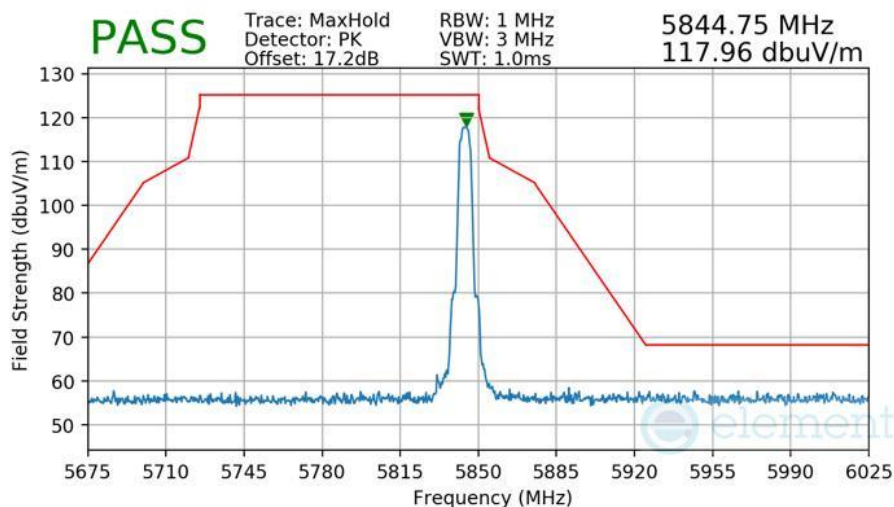
V 11.0 06/2025

Mode XHDRPM8
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-704 Radiated Upper Band Edge Measurement TxBF Diversity

Mode XHDRPM16
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz

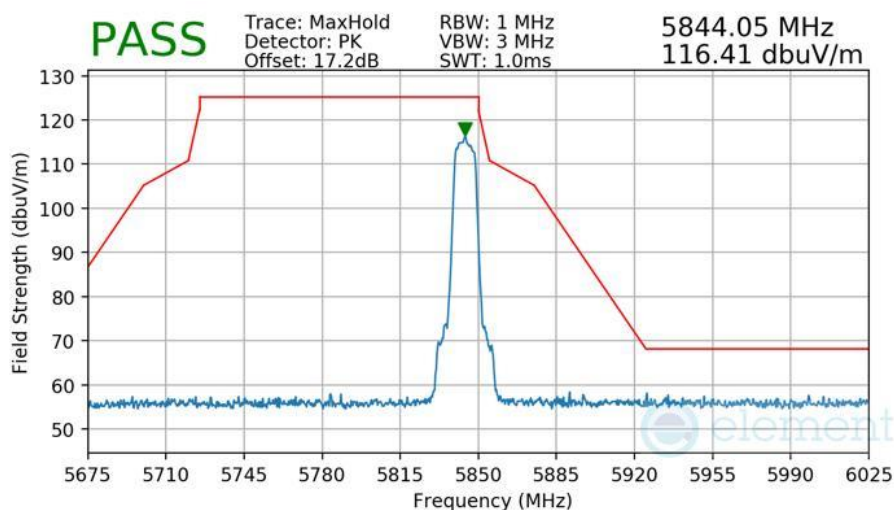


Plot 7-705 Radiated Upper Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 425 of 439

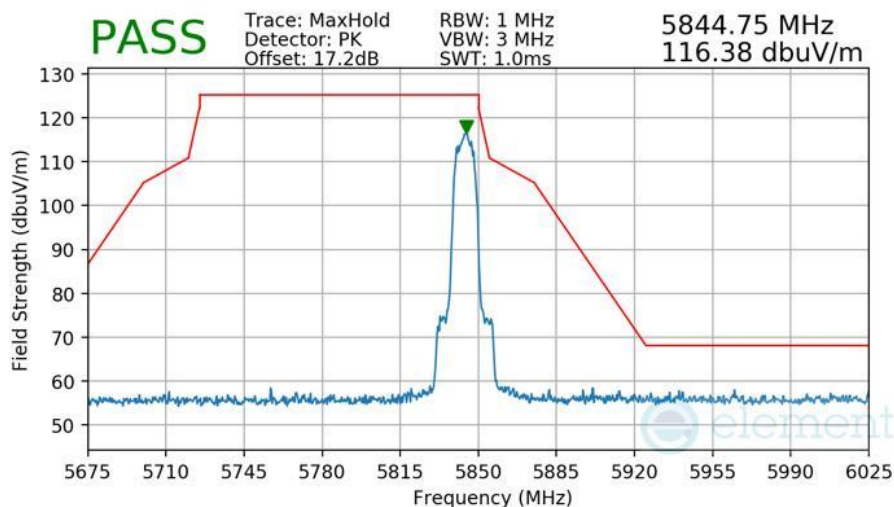
V 11.0 06/2025

Mode XHDRPL16
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-706 Radiated Upper Band Edge Measurement TxBF Diversity

Mode XHDRPL32
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz

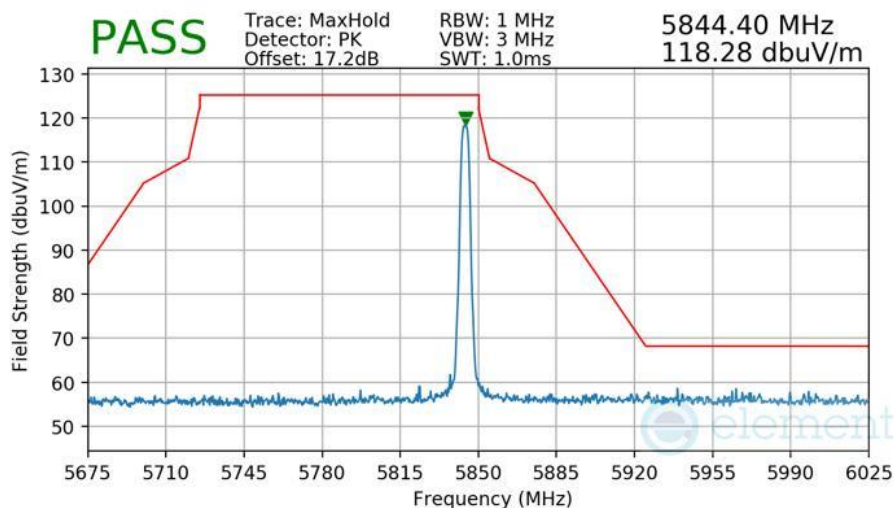


Plot 7-707 Radiated Upper Band Edge Measurement TxBF Diversity

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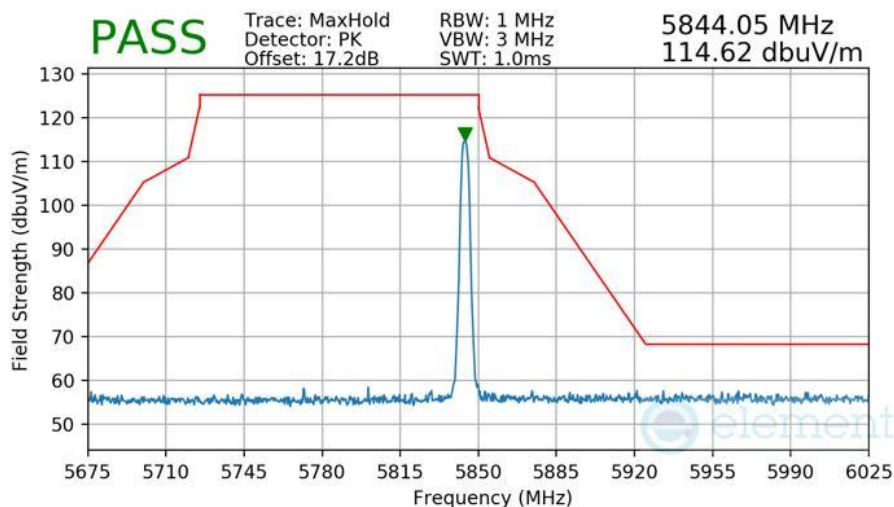
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Mode HDT2
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-708 Radiated Upper Band Edge Measurement TxBF Diversity

Mode HDT8
Power Scheme ePA
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-709 Radiated Upper Band Edge Measurement TxBF Diversity

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7 Radiated Spurious Emissions – Below 1GHz

§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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 must not exceed the limits shown in Table 7-68 per Section 15.209.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-68. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

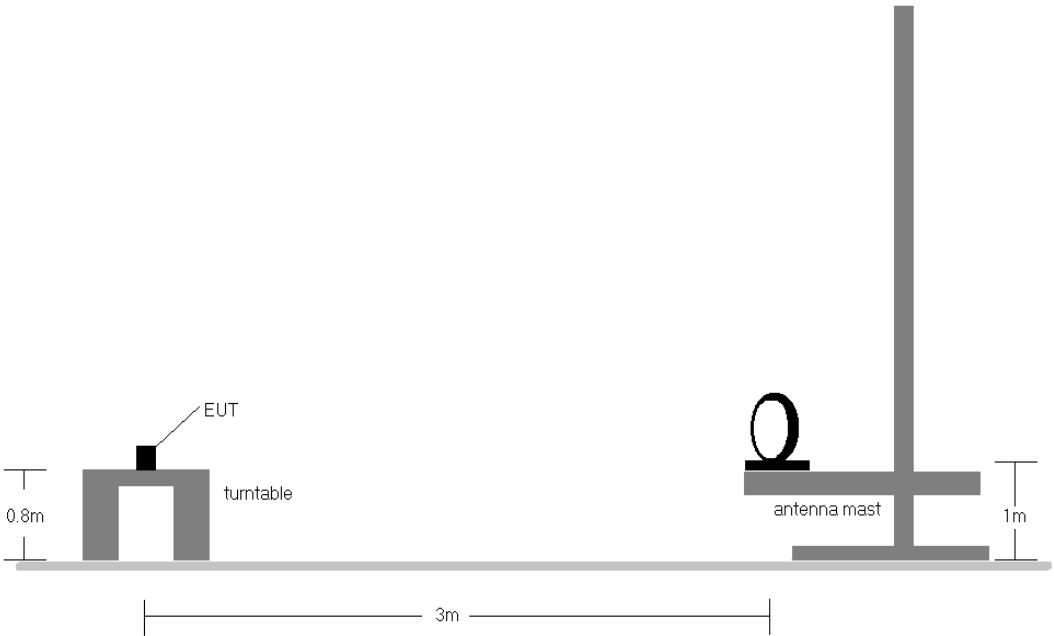


Figure 7-6. Radiated Test Setup < 30MHz

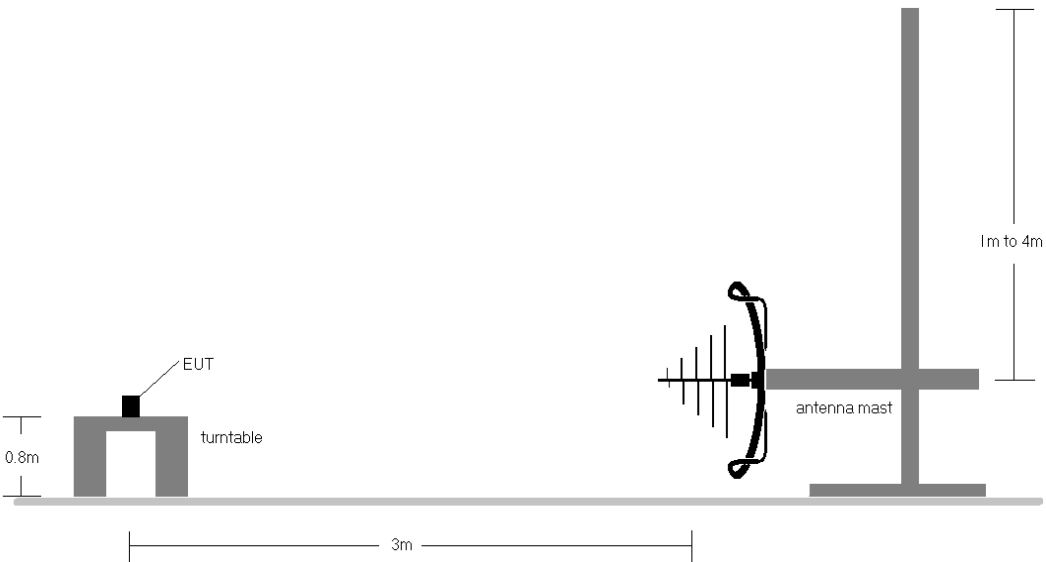


Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-68.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. All supported modulation and power schemes have been tested on the unit and only worst case configuration is reported.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor to USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

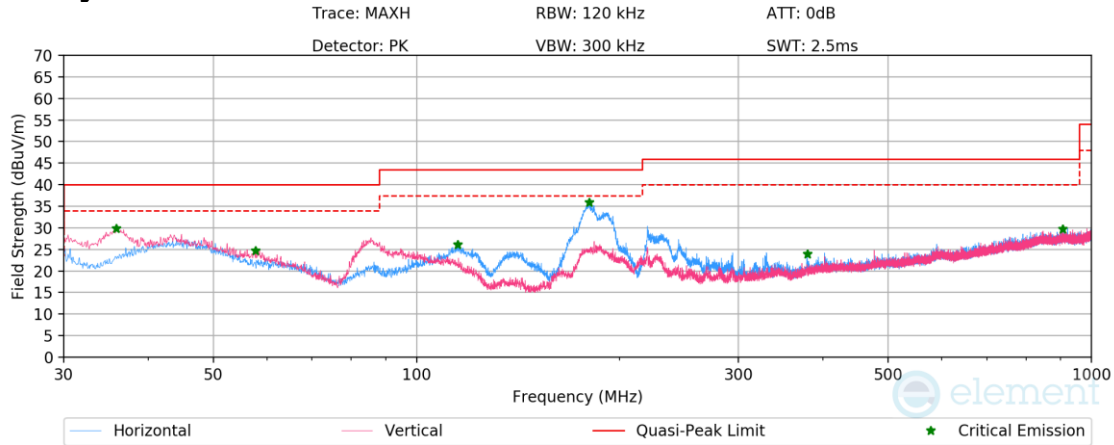
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Radiated Spurious Emissions (Below 1GHz)

\$15.209

TxBF Primary



Plot 7-710. Radiated Spurious Emissions Below 1GHz TxBF Primary (NB UNII BDR ePA – 5788MHz), with AC/DC adaptor

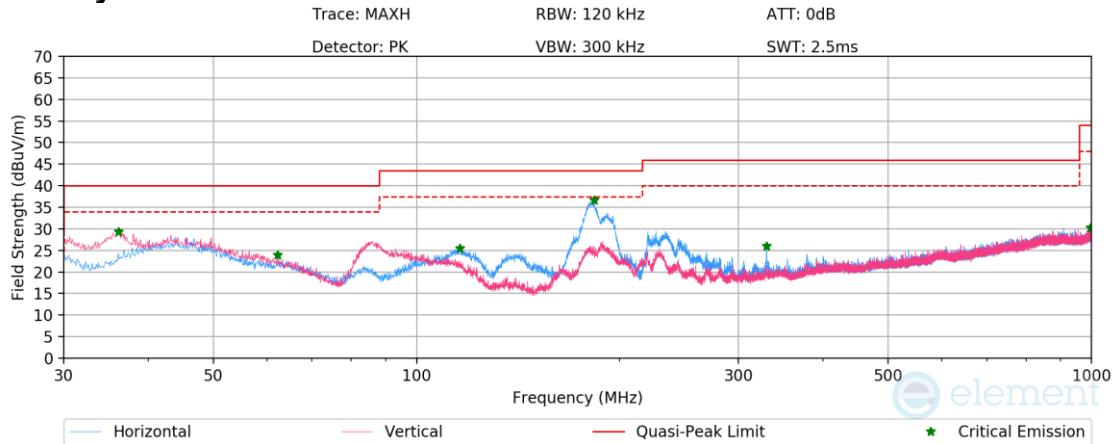
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
35.91	Max-Peak	V	100	-	-59.33	-17.83	29.84	40.00	-10.16
57.75	Max-Peak	V	100	-	-65.96	-16.32	24.72	40.00	-15.28
115.11	Max-Peak	H	200	-	-61.96	-18.90	26.13	43.50	-17.37
180.09	Max-Peak	H	100	-	-51.62	-19.51	35.86	43.50	-7.64
379.22	Max-Peak	H	100	-	-69.78	-13.33	23.89	46.00	-22.11
906.07	Max-Peak	V	300	-	-73.04	-4.21	29.75	46.00	-16.25

Table 7-69. Radiated Spurious Emissions Below 1GHz TxBF Primary (NB UNII BDR ePA – 5788MHz), with AC/DC adaptor

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TxBF Diversity



Plot 7-711. Radiated Spurious Emissions Below 1GHz TxBF Diversity (NB UNII BDR ePA – 5788MHz), with AC/DC adaptor

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]
36.15	Max-Peak	V	100	-	-59.90	-17.71	29.39	40.00	-10.61
62.19	Max-Peak	V	200	-	-65.47	-17.56	23.96	40.00	-16.04
115.83	Max-Peak	H	200	-	-62.54	-18.97	25.50	43.50	-18.00
183.15	Max-Peak	H	200	-	-51.06	-19.28	36.66	43.50	-6.84
329.90	Max-Peak	H	100	-	-66.72	-14.30	25.98	46.00	-20.02
996.19	Max-Peak	V	200	-	-73.28	-3.53	30.19	54.00	-23.81

Table 7-70. Radiated Spurious Emissions Below 1GHz TxBF Diversity (NB UNII BDR ePA – 5788MHz), with AC/DC adaptor

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.8 AC Line Conducted Emissions Measurement

§15.207

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. All data rates and modes were investigated for AC Line conducted spurious emissions.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-71. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, Subclause 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. 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.

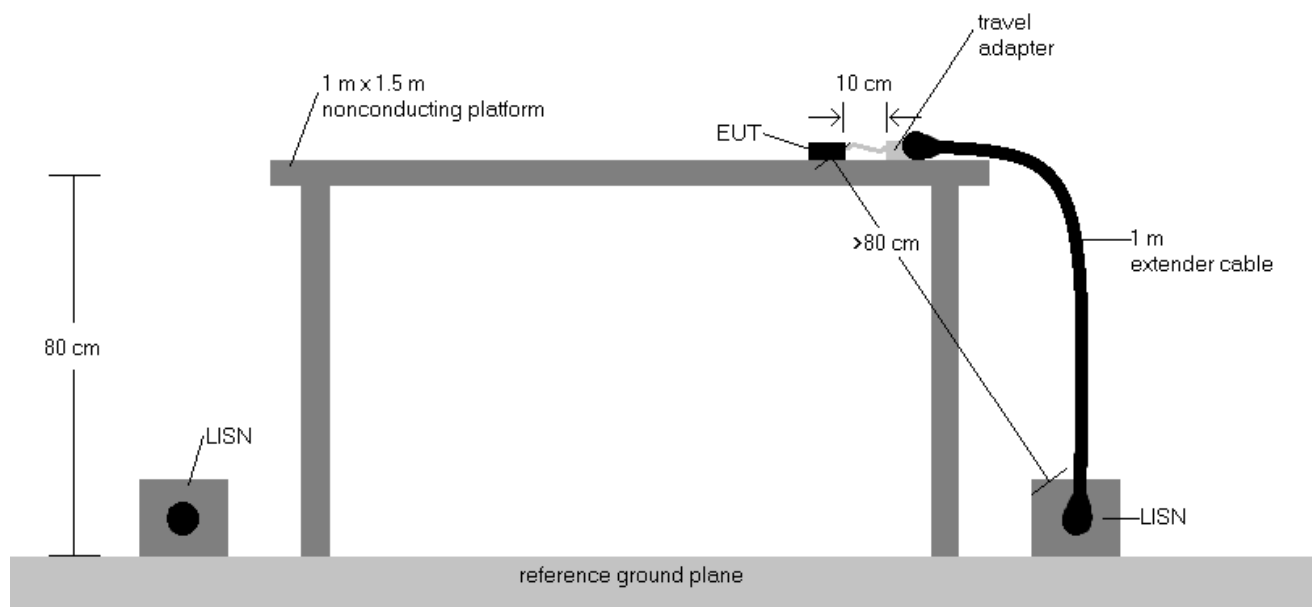


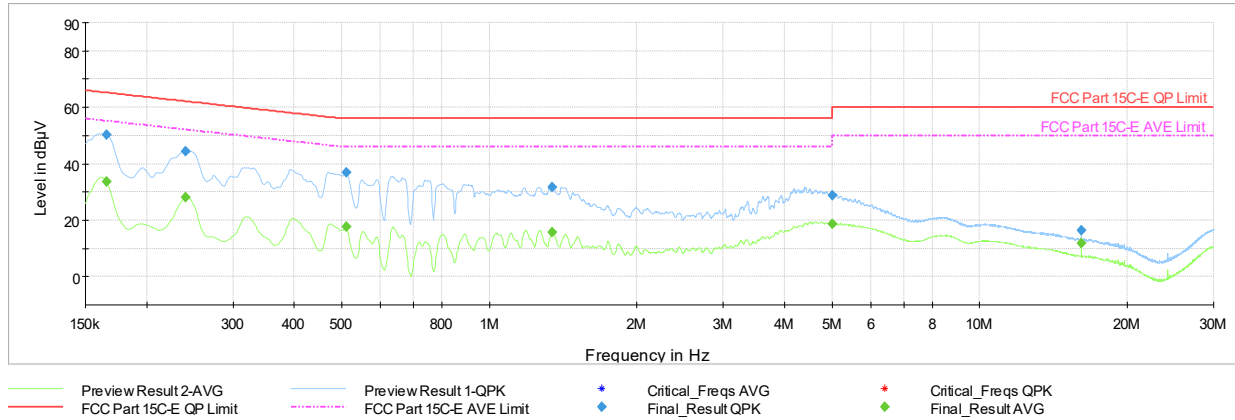
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor to USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207.
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

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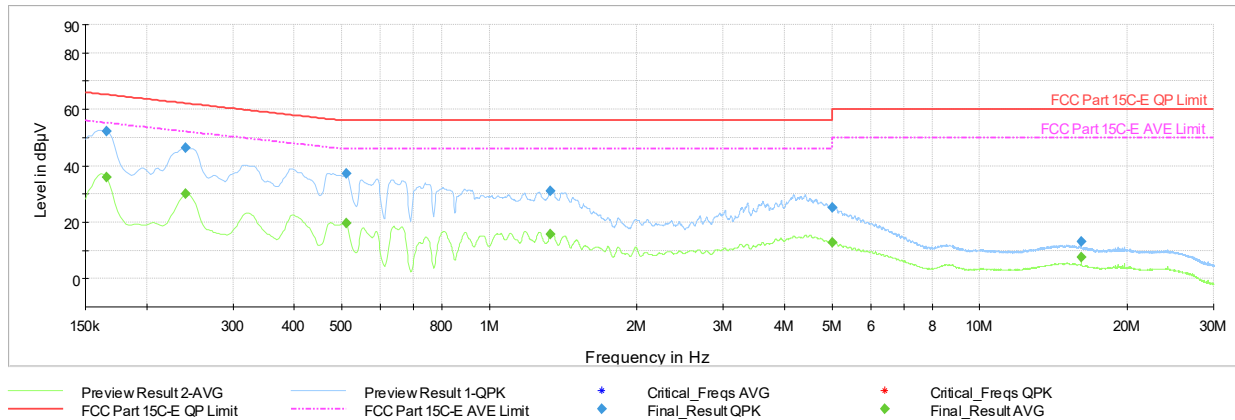


Plot 7-712. AC Line Conducted Plot TxBF Primary (NB UNII BDR ePA – 5788MHz) (L1) with AC/DC adaptor

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.17	FINAL	—	33.80	55.17	-21.37	L1	GND
0.17	FINAL	50.41	—	65.17	-14.76	L1	GND
0.24	FINAL	—	28.07	52.10	-24.03	L1	GND
0.24	FINAL	44.32	—	62.10	-17.78	L1	GND
0.51	FINAL	—	17.56	46.00	-28.44	L1	GND
0.51	FINAL	36.97	—	56.00	-19.03	L1	GND
1.34	FINAL	31.67	—	56.00	-24.33	L1	GND
1.34	FINAL	—	15.72	46.00	-30.28	L1	GND
5.01	FINAL	28.91	—	60.00	-31.09	L1	GND
5.01	FINAL	—	18.60	50.00	-31.40	L1	GND
16.15	FINAL	—	11.84	50.00	-38.16	L1	GND
16.15	FINAL	16.46	—	60.00	-43.54	L1	GND

Table 7-72. AC Line Conducted Data TxBF Primary (NB UNII BDR ePA – 5788MHz) (L1) with AC/DC adaptor

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-713. AC Line Conducted Plot TxBF Primary (NB UNII BDR ePA – 5788MHz) (N) with AC/DC adaptor

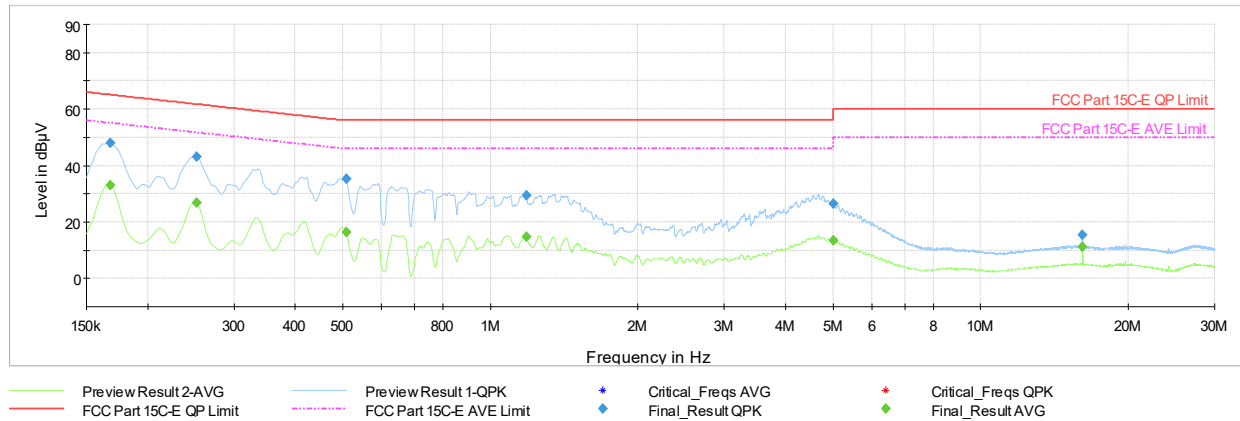
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.17	FINAL	—	35.78	55.17	-19.39	N	GND
0.17	FINAL	52.25	—	65.17	-12.92	N	GND
0.24	FINAL	—	29.99	52.10	-22.11	N	GND
0.24	FINAL	46.20	—	62.10	-15.90	N	GND
0.51	FINAL	—	19.73	46.00	-26.27	N	GND
0.51	FINAL	37.28	—	56.00	-18.72	N	GND
1.33	FINAL	30.98	—	56.00	-25.02	N	GND
1.33	FINAL	—	15.58	46.00	-30.42	N	GND
5.00	FINAL	25.25	—	60.00	-34.75	N	GND
5.00	FINAL	—	12.67	50.00	-37.33	N	GND
16.14	FINAL	—	7.55	50.00	-42.45	N	GND
16.14	FINAL	13.12	—	60.00	-46.88	N	GND

Table 7-73. AC Line Conducted TxBF Primary (NB UNII BDR ePA – 5788MHz) (N) with AC/DC adaptor

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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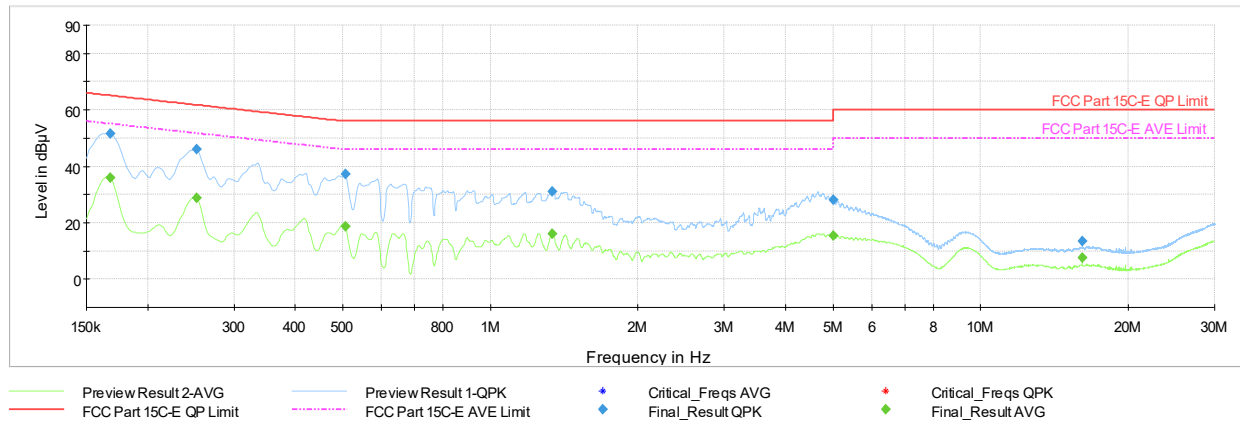


Plot 7-714. AC Line Conducted Plot TxBF Diversity (NB UNII BDR ePA – 5788MHz) (L1) with AC/DC adaptor

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.17	FINAL	—	33.04	55.06	-22.02	L1	GND
0.17	FINAL	47.94	—	65.06	-17.12	L1	GND
0.25	FINAL	—	26.67	51.72	-25.05	L1	GND
0.25	FINAL	43.02	—	61.72	-18.70	L1	GND
0.51	FINAL	—	16.48	46.00	-29.52	L1	GND
0.51	FINAL	35.25	—	56.00	-20.75	L1	GND
1.18	FINAL	29.43	—	56.00	-26.57	L1	GND
1.18	FINAL	—	14.82	46.00	-31.18	L1	GND
5.02	FINAL	26.34	—	60.00	-33.66	L1	GND
5.02	FINAL	—	13.41	50.00	-36.59	L1	GND
16.15	FINAL	—	11.17	50.00	-38.83	L1	GND
16.15	FINAL	15.46	—	60.00	-44.54	L1	GND

Table 7-74. AC Line Conducted Data TxBF Diversity (NB UNII BDR ePA – 5788MHz) (L1) with AC/DC adaptor

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-715. AC Line Conducted Plot TxBF Diversity (NB UNII BDR ePA – 5788MHz) (N) with AC/DC adaptor

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.17	FINAL	—	35.98	55.06	-19.08	N	GND
0.17	FINAL	51.72	—	65.06	-13.34	N	GND
0.25	FINAL	—	28.85	51.72	-22.87	N	GND
0.25	FINAL	46.01	—	61.72	-15.71	N	GND
0.51	FINAL	—	18.76	46.00	-27.24	N	GND
0.51	FINAL	37.08	—	56.00	-18.92	N	GND
1.34	FINAL	30.94	—	56.00	-25.06	N	GND
1.34	FINAL	—	15.91	46.00	-30.09	N	GND
5.01	FINAL	28.12	—	60.00	-31.88	N	GND
5.01	FINAL	—	15.50	50.00	-34.50	N	GND
16.13	FINAL	—	7.56	50.00	-42.44	N	GND
16.13	FINAL	13.33	—	60.00	-46.67	N	GND

Table 7-75. AC Line Conducted TxBF Diversity (NB UNII BDR ePA – 5788MHz) (N) with AC/DC adaptor

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA3462** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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