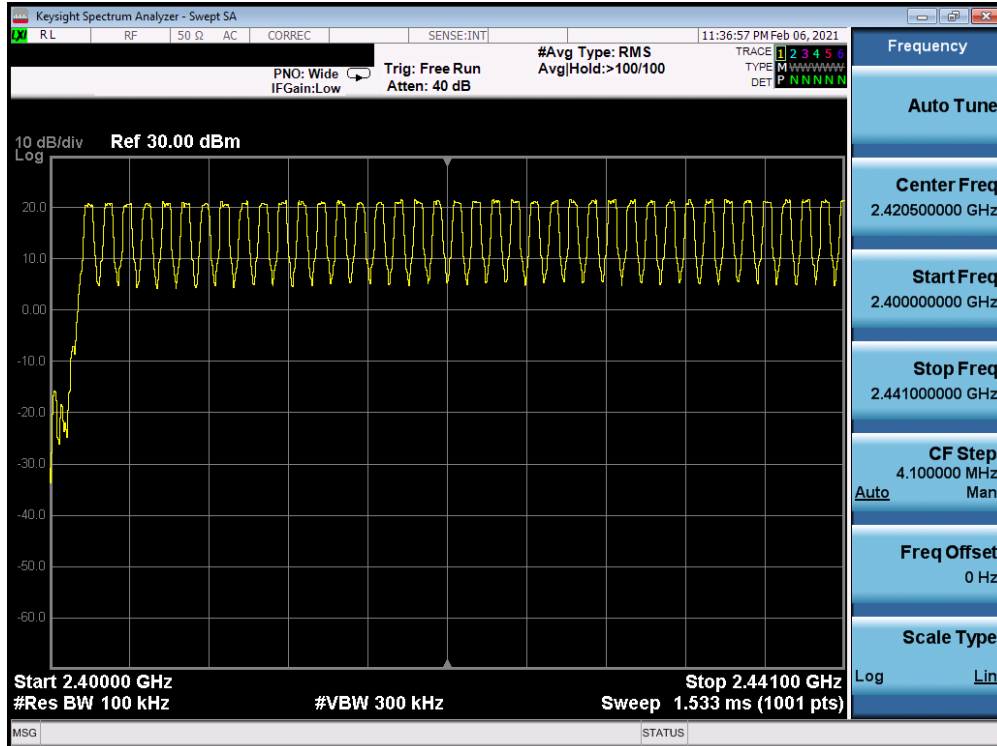
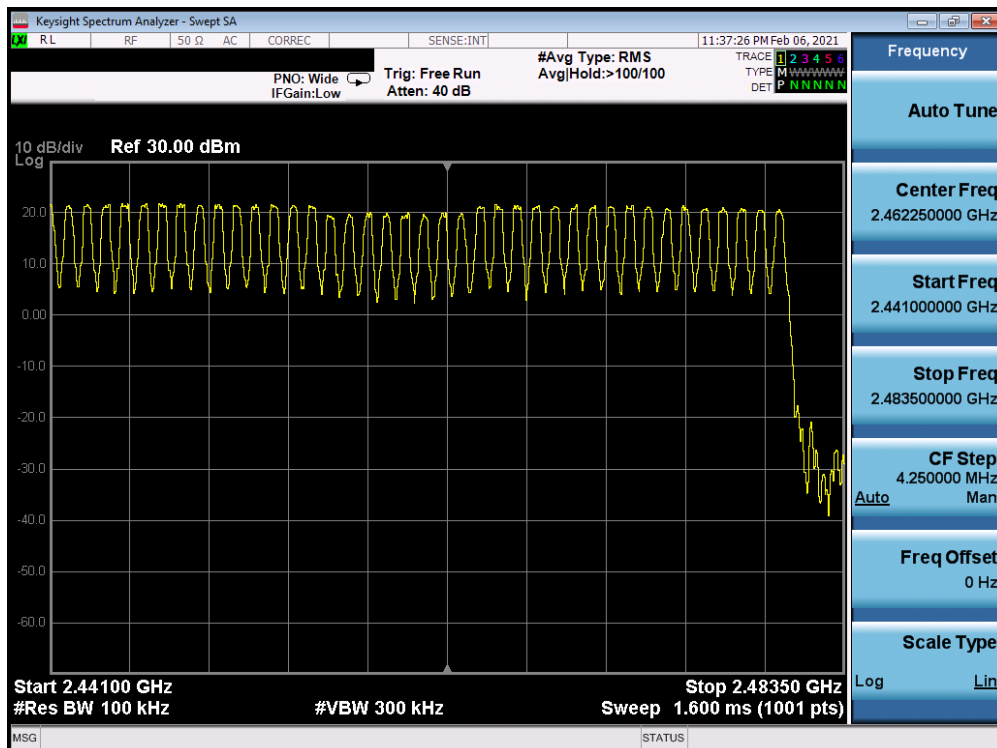


Antenna 4a

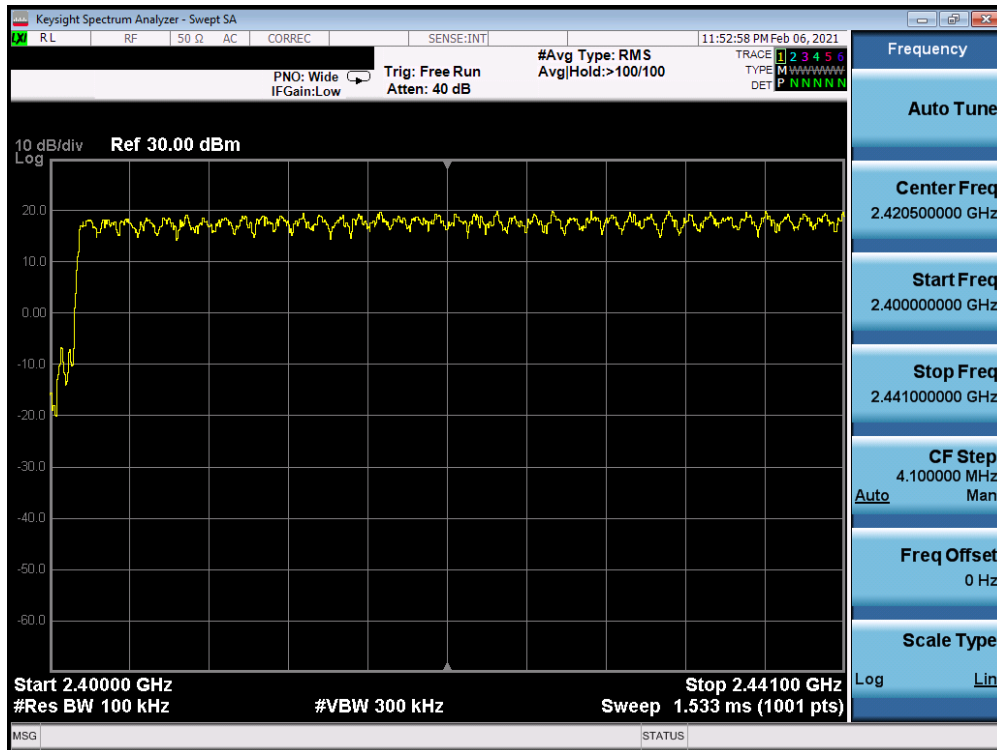


Plot 7-37. Low End Spectrum Channel Hopping Plot Antenna 4a (Bluetooth, GFSK, ePA)

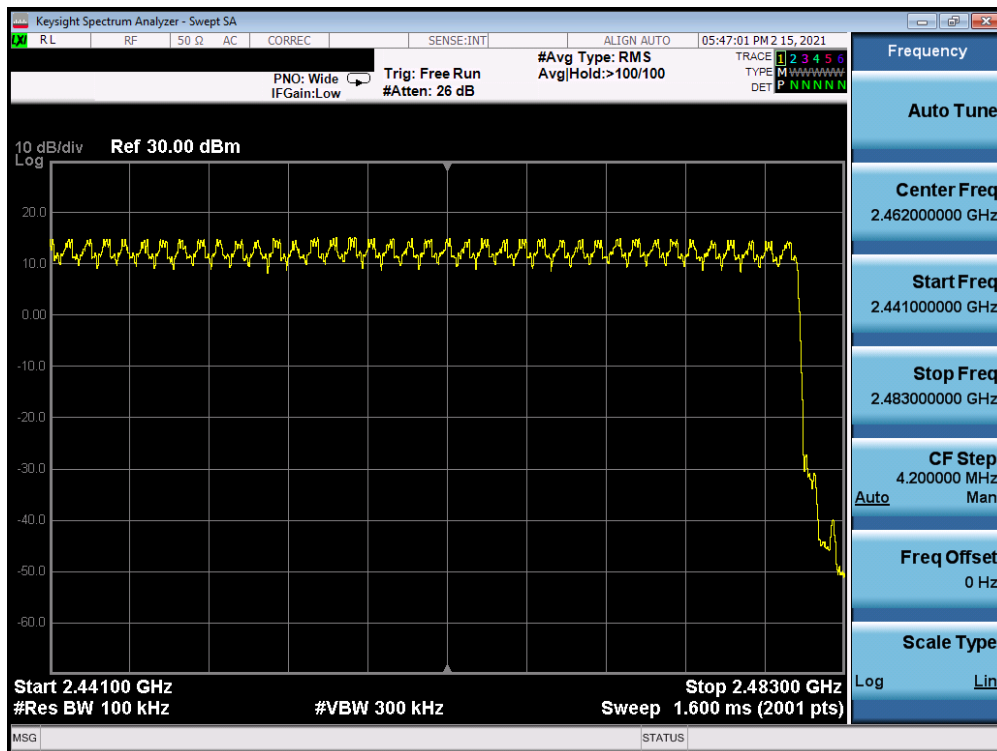


Plot 7-38. High End Spectrum Channel Hopping Plot Antenna 4a (Bluetooth, GFSK, ePA)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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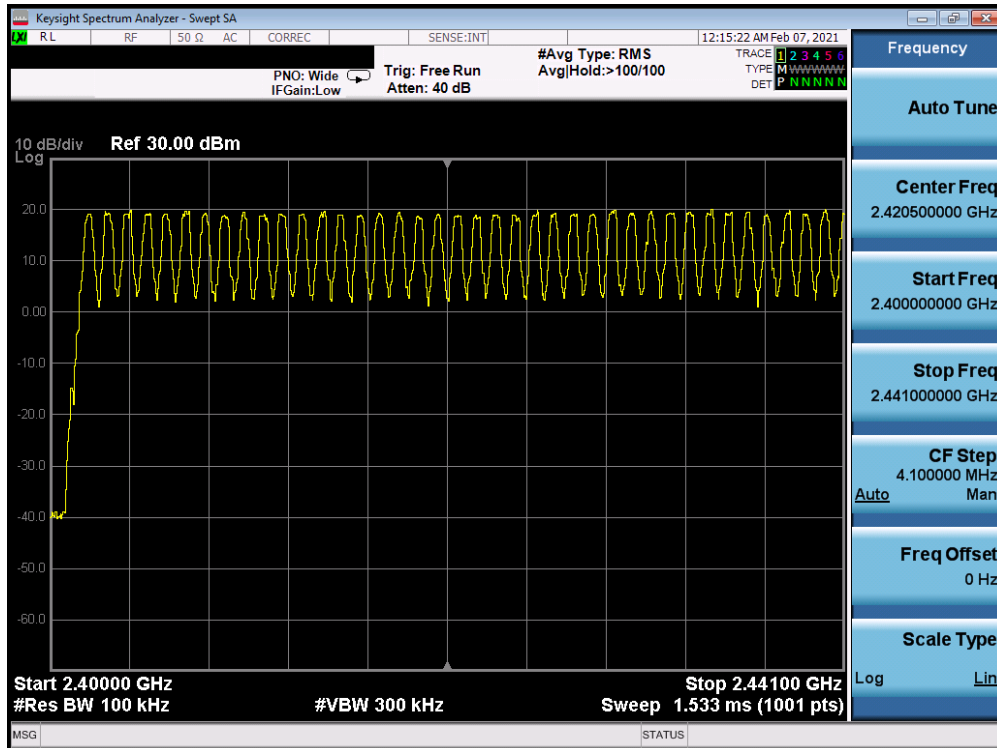
Plot 7-39. Low End Spectrum Channel Hopping Plot Antenna 4a (Bluetooth, 8DPSK, ePA)



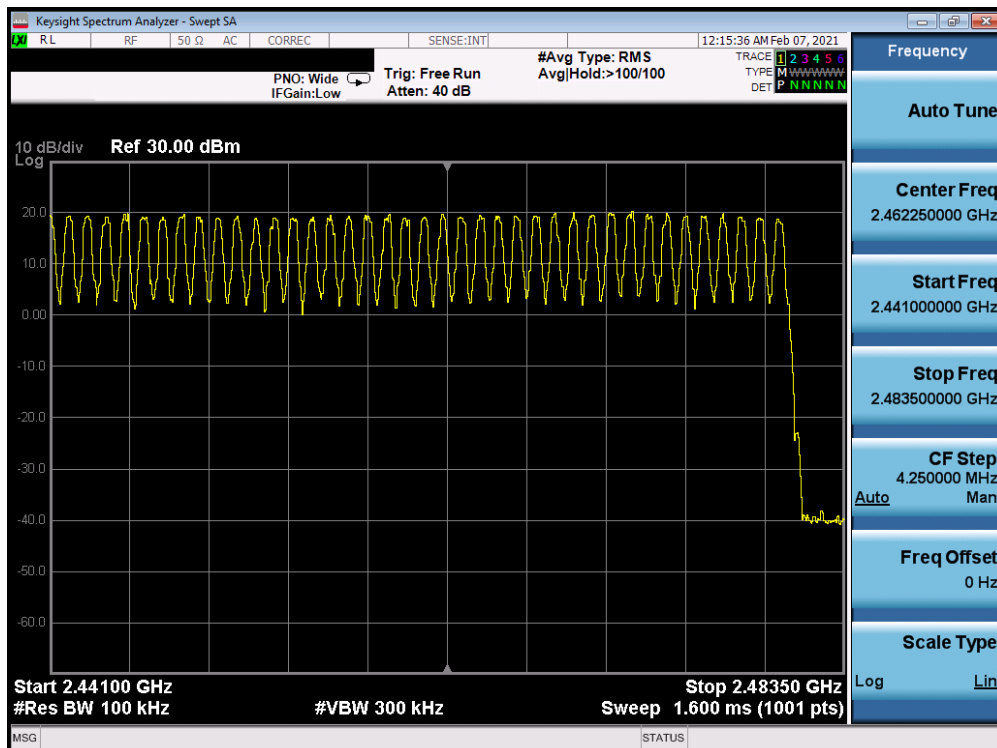
Plot 7-40. High End Spectrum Channel Hopping Plot Antenna 4a (Bluetooth, 8DPSK, ePA)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 48 of 91

Antenna 2a

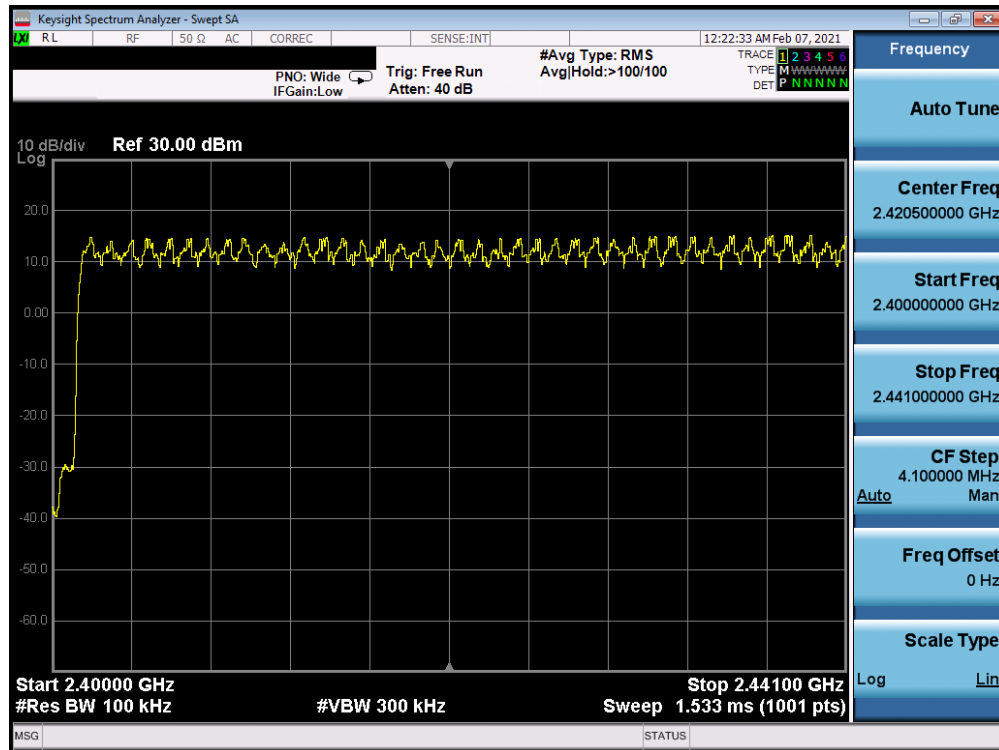


Plot 7-41. Low End Spectrum Channel Hopping Plot Antenna 2a (Bluetooth, GFSK, ePA)

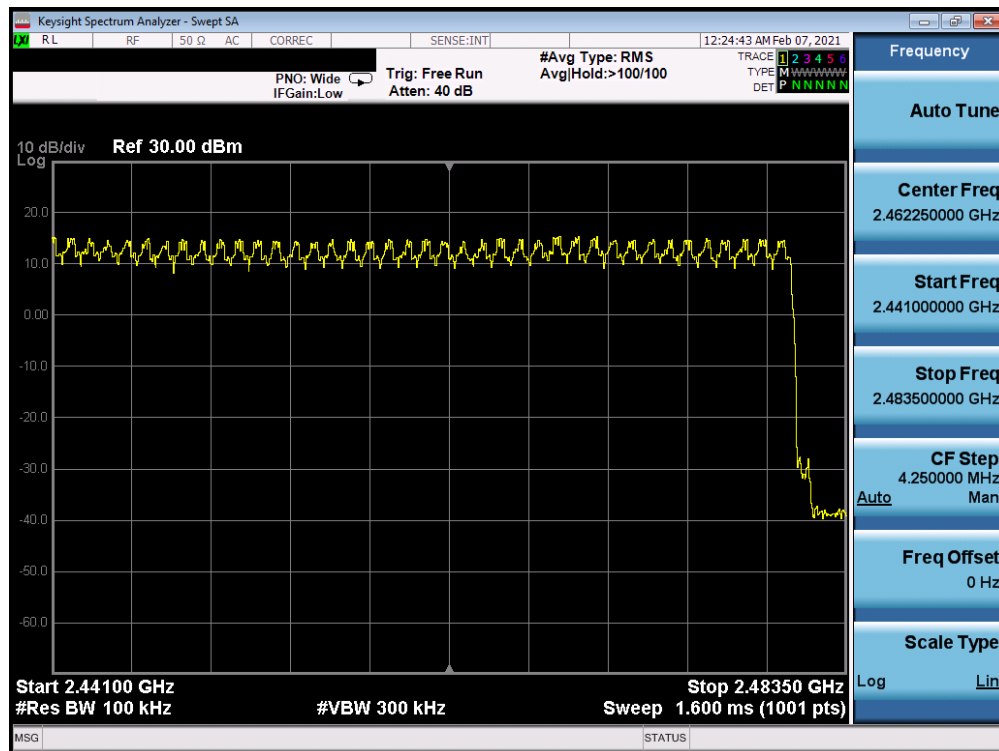


Plot 7-42. High End Spectrum Channel Hopping Plot Antenna 2a (Bluetooth, GFSK, ePA)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-43. Low End Spectrum Channel Hopping Plot Antenna 2a (Bluetooth, 8DPSK, ePA)



Plot 7-44. High End Spectrum Channel Hopping Plot Antenna 2a (Bluetooth, 8DPSK, ePA)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.8 Conducted Spurious Emissions

§15.247 (d); RSS-247 [5.5]

Test Overview and Limit

Conducted out-of-band spurious emissions were investigated from 30MHz up to 25GHz to include the 10th harmonic of the fundamental transmit frequency. **The maximum permissible out-of-band emission level is 20 dBc.**

Test Procedure Used

ANSI C63.10-2013 – Section 7.8.8

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz* (See note below)
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
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.



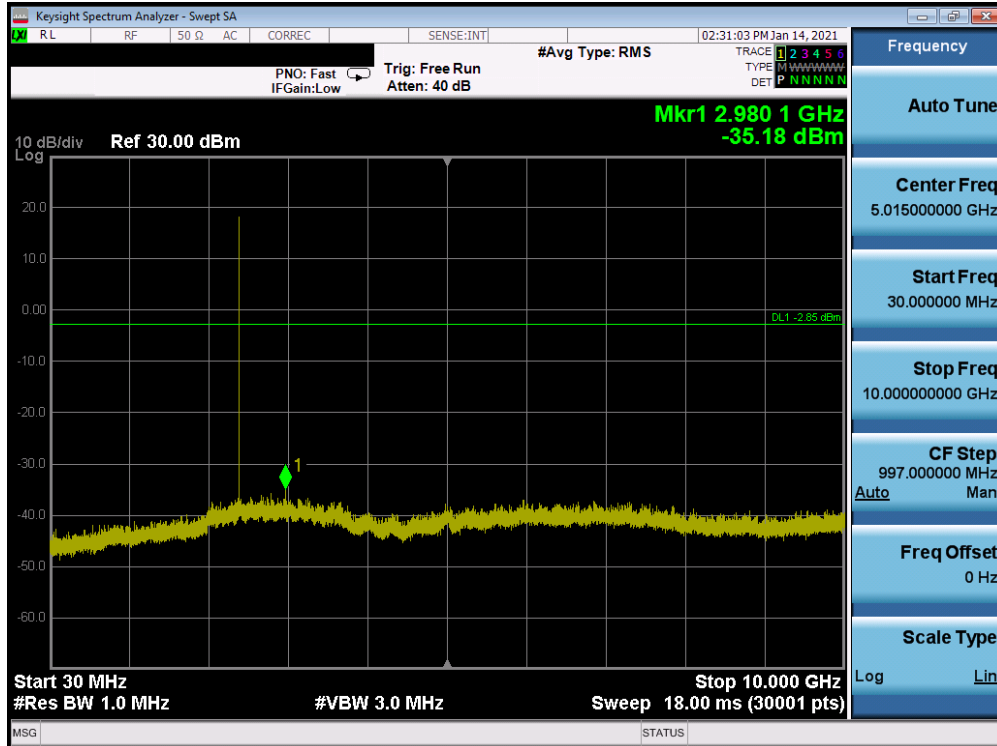
Figure 7-7. Test Instrument & Measurement Setup

Test Notes

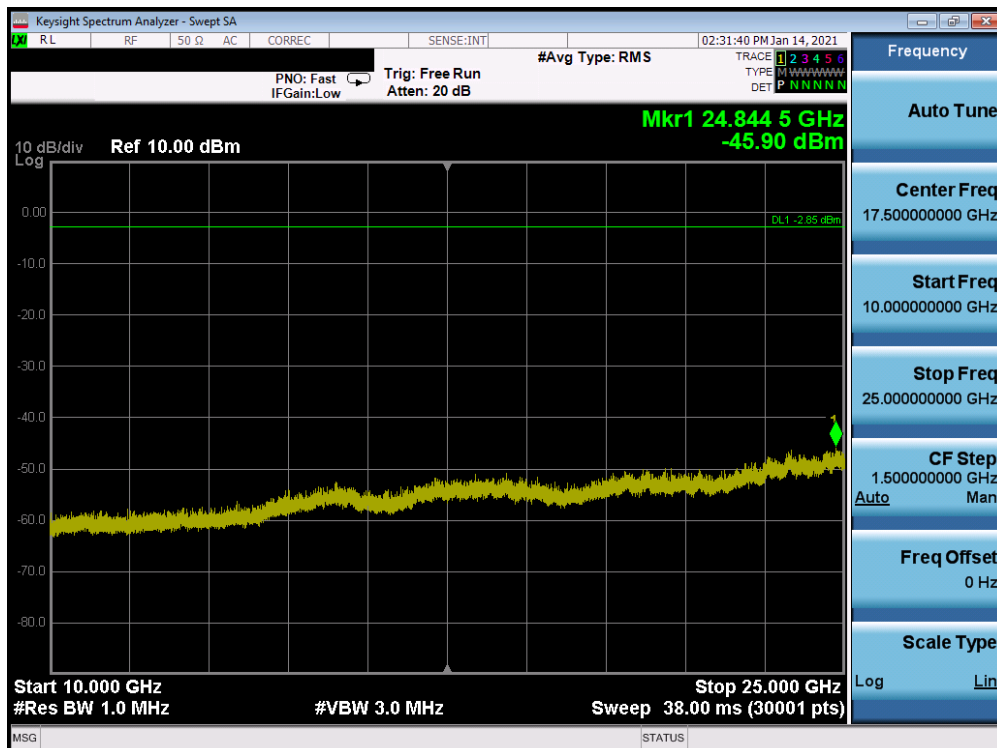
1. Out-of-band conducted spurious emissions were investigated for all data rates and the worst case emissions were found with the EUT transmitting at 1Mbps. The display line shown in the following plots is the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, the traces in the following plots are measured with a 1MHz RBW to reduce test time, so the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
2. The unit was tested with all possible mode and power schemes and only the highest emission is reported.

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Antenna 4a

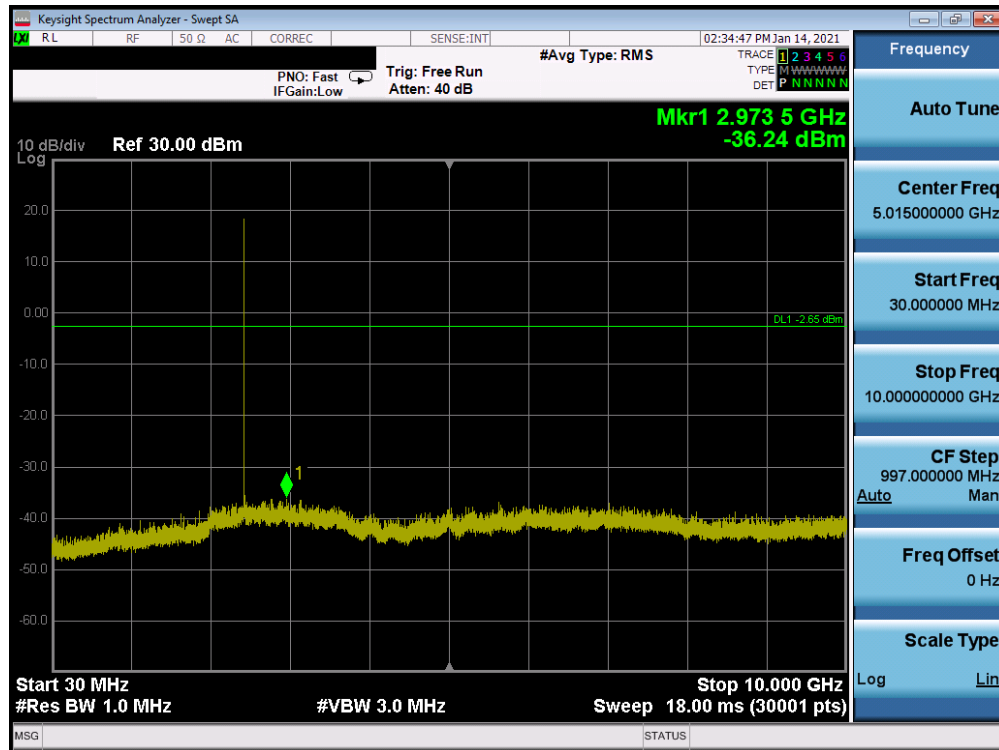


Plot 7-45. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA – Ch. 0)

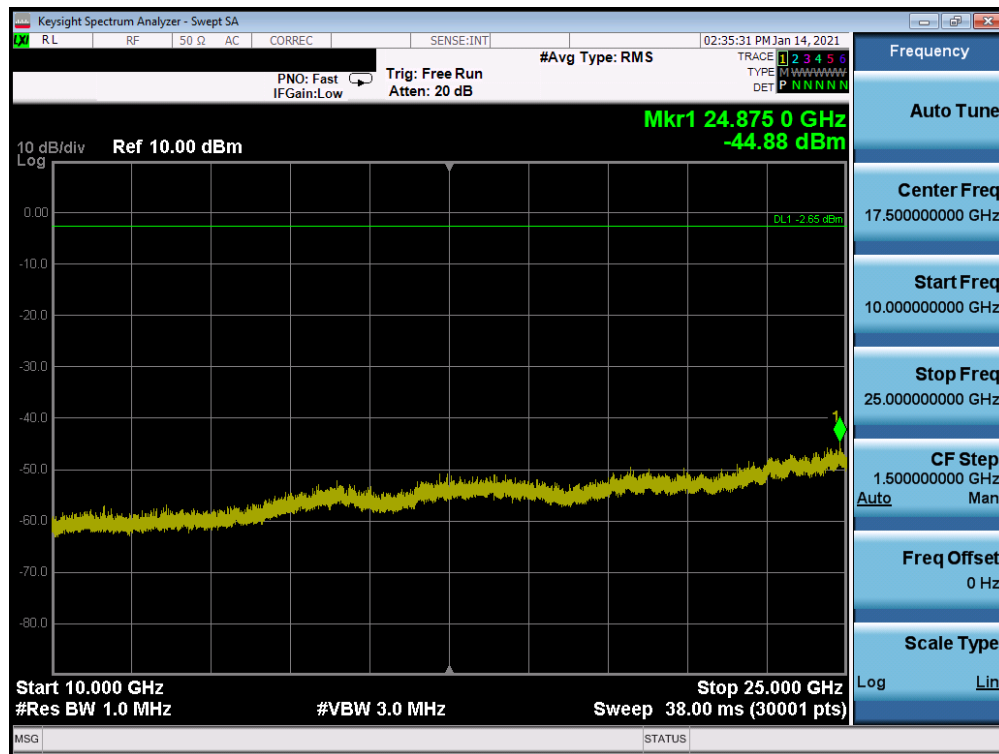


Plot 7-46. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA – Ch. 0)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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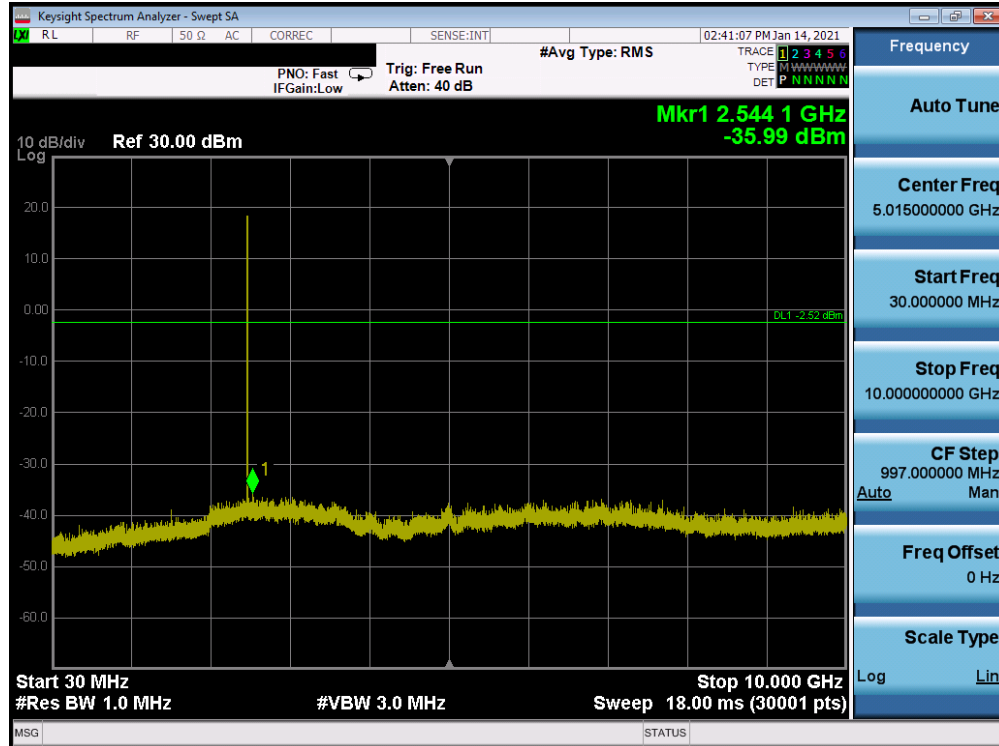


Plot 7-47. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA – Ch. 39)

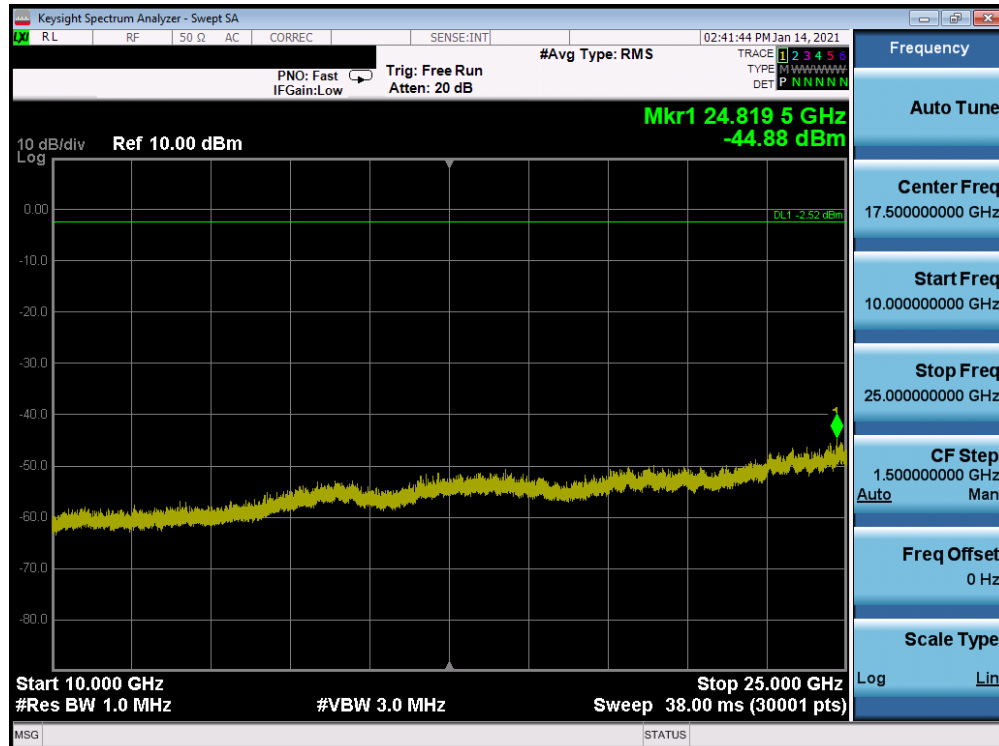


Plot 7-48. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA Ch. 39)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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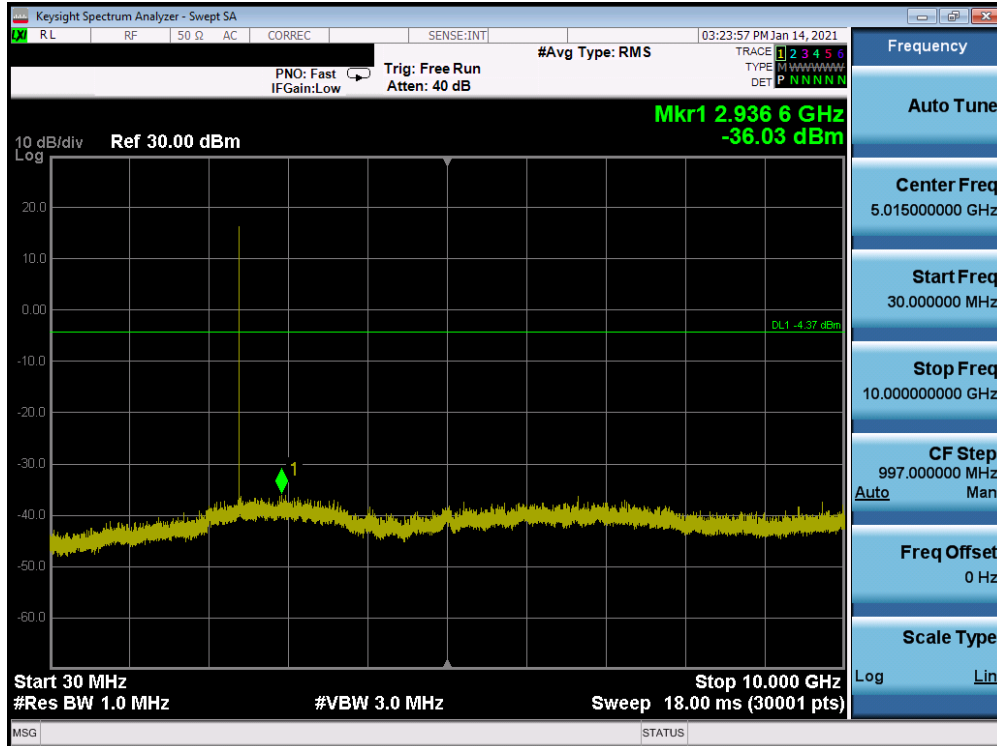
Plot 7-49. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA – Ch. 78)



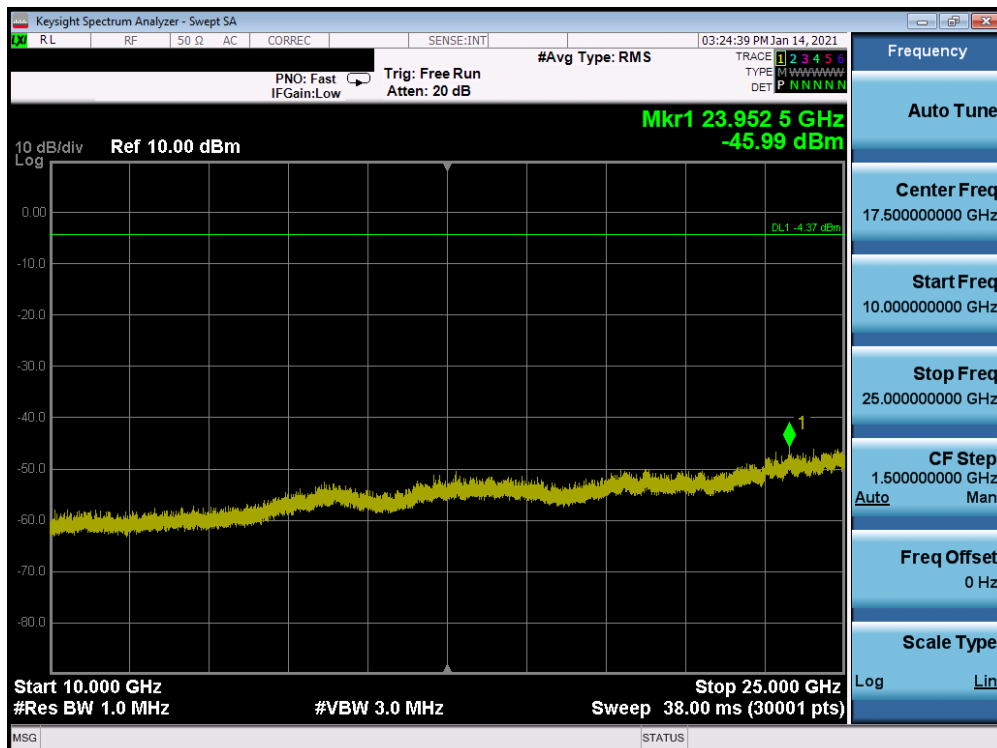
Plot 7-50. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA – Ch. 78)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 54 of 91

Antenna 2a

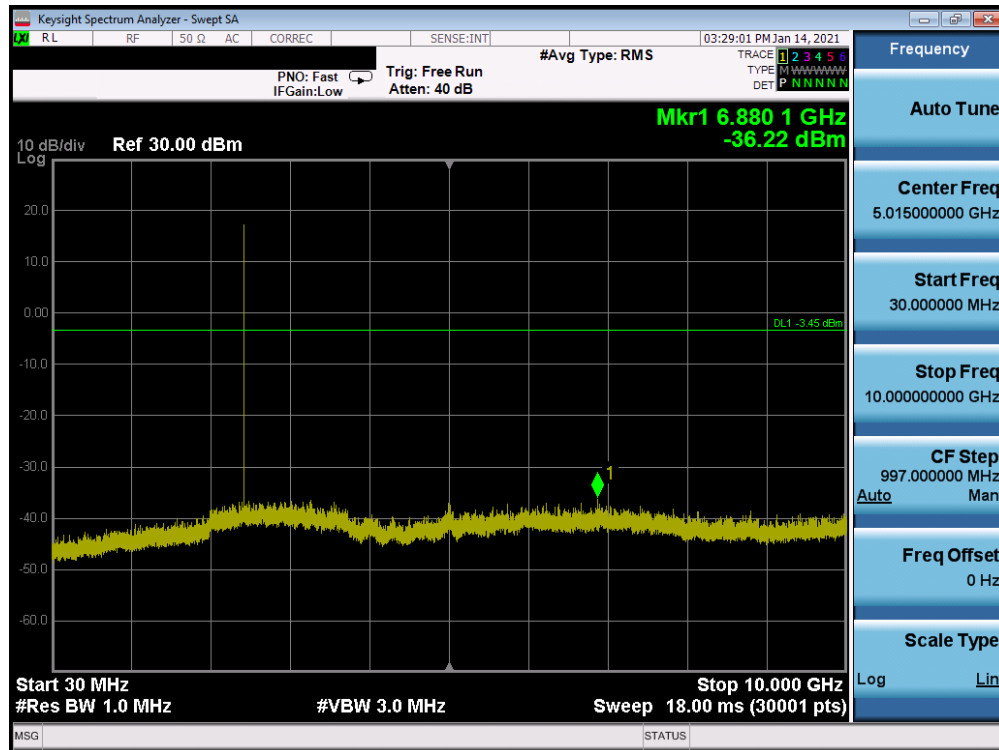


Plot 7-51. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 0)

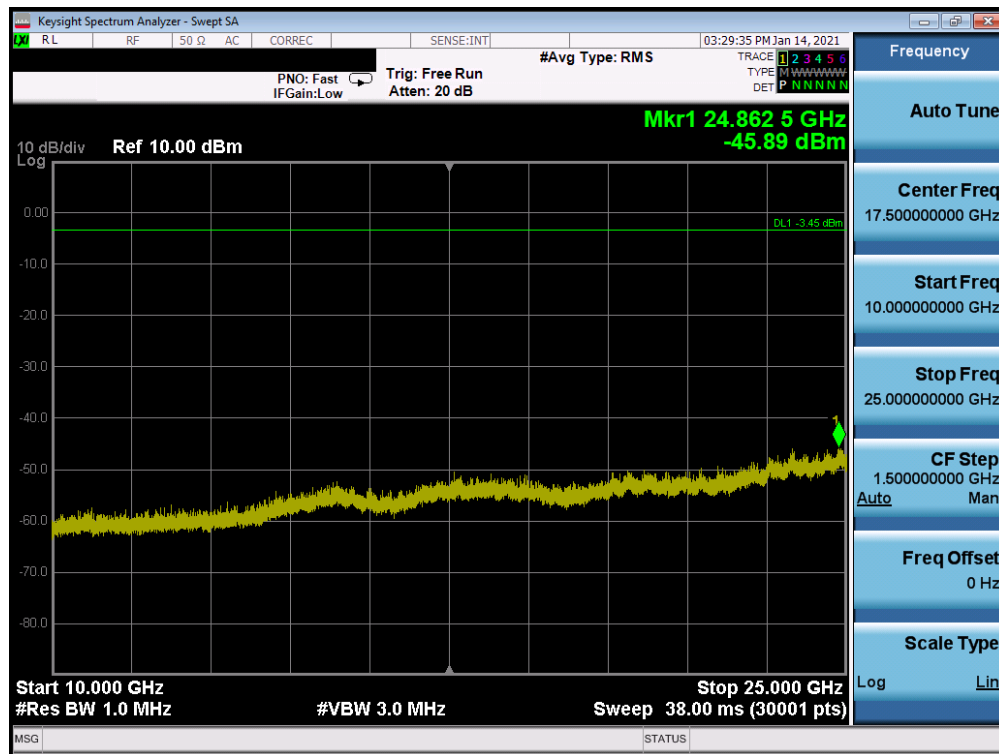


Plot 7-52. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 0)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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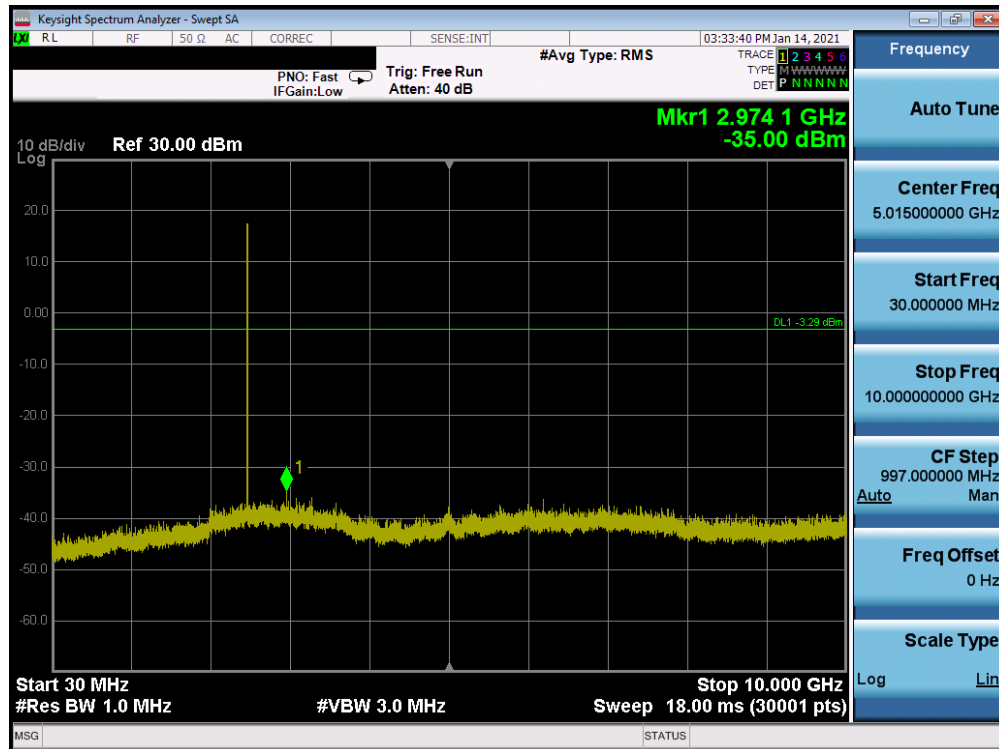


Plot 7-53. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 39)

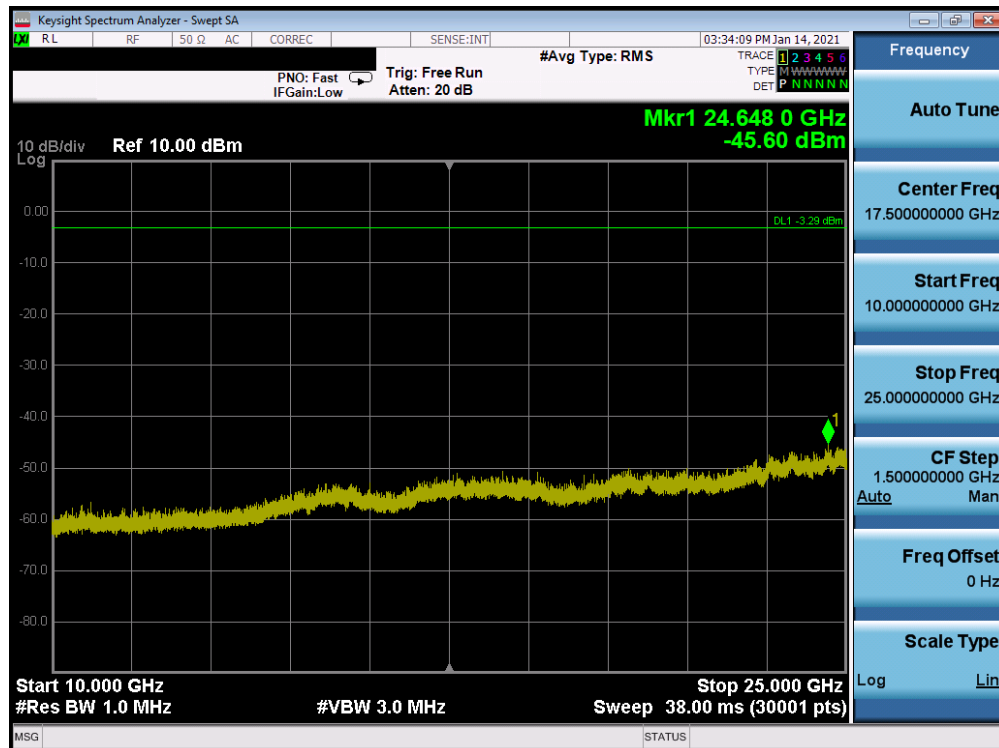


Plot 7-54. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA Ch. 39)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-55. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 78)



Plot 7-56. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 78)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.9 Radiated Spurious Emissions – Above 1GHz

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

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 maximum power and at the appropriate frequencies. 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 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-12 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-12. Radiated Limits

Test Procedure Used

ANSI C63.10-2013 – Section 6.6.4.3

Test Settings

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

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Test Setup

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

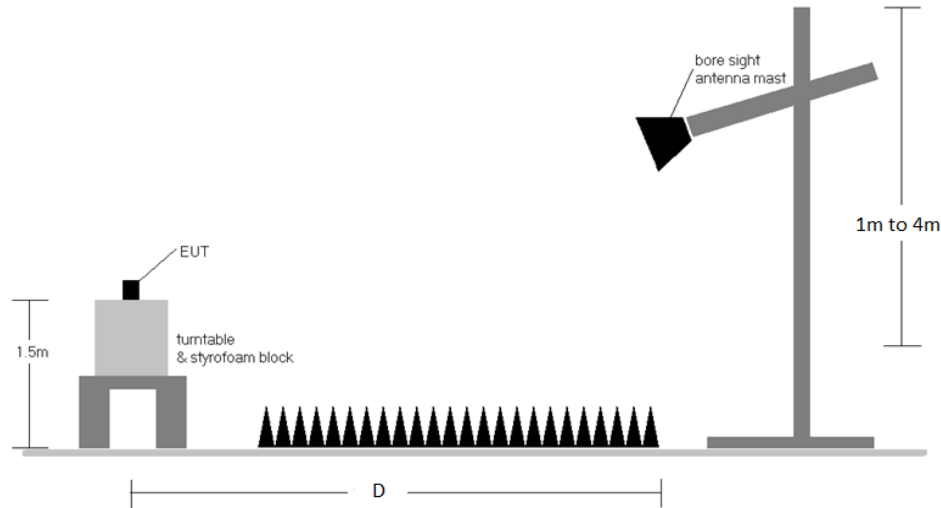


Figure 7-8. Radiated Test Setup >1GHz

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-12.
2. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
5. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
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, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
9. Average emissions were not reported since the duty cycle correction factor was greater than 20dB.

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Sample Calculation

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

Duty Cycle Correction Factor Calculation

- Channel hop rate = 800 hops/second (AFH Mode)
- Adjusted channel hop rate for DH5 mode = 133.33 hops/second
- Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.50 \text{ ms}$
- Time to cycle through all channels = $7.50 \times 20 \text{ channels} = 150 \text{ ms}$
- Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$
- Worst case dwell time = 7.5 ms

Duty cycle correction factor = $20\log_{10}(7.5\text{ms}/100\text{ms}) = -22.5 \text{ dB}$

Average Emission Calculation

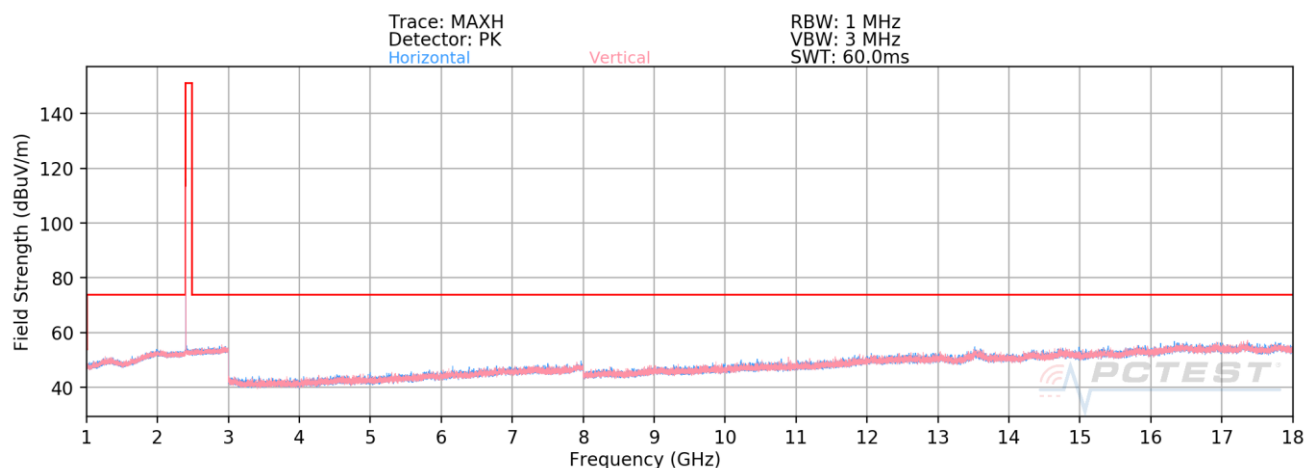
- Average Emission = Measured Peak Emissions $[\text{dB}\mu\text{V/m}] - \text{Duty Cycle Correction Factor} [\text{dB}]$

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Radiated Spurious Emission Measurements (1 – 18GHz)

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Antenna 4a



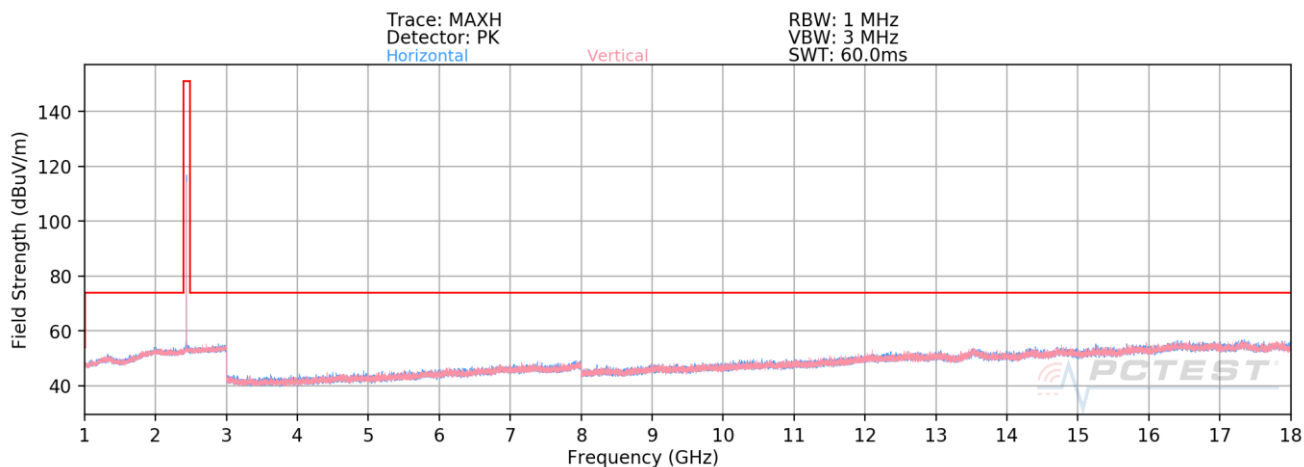
Plot 7-57. Radiated Spurious Emissions above 1GHz Antenna 4a (BT GFSK ePA – Ch. 0)

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4804.00	Peak	H	105	163	-65.28	4.34	46.06	73.98	-27.92
12010.00	Peak	H	-	-	-73.11	17.00	50.89	73.98	-23.09

Table 7-13. Radiated Measurements Antenna 4a

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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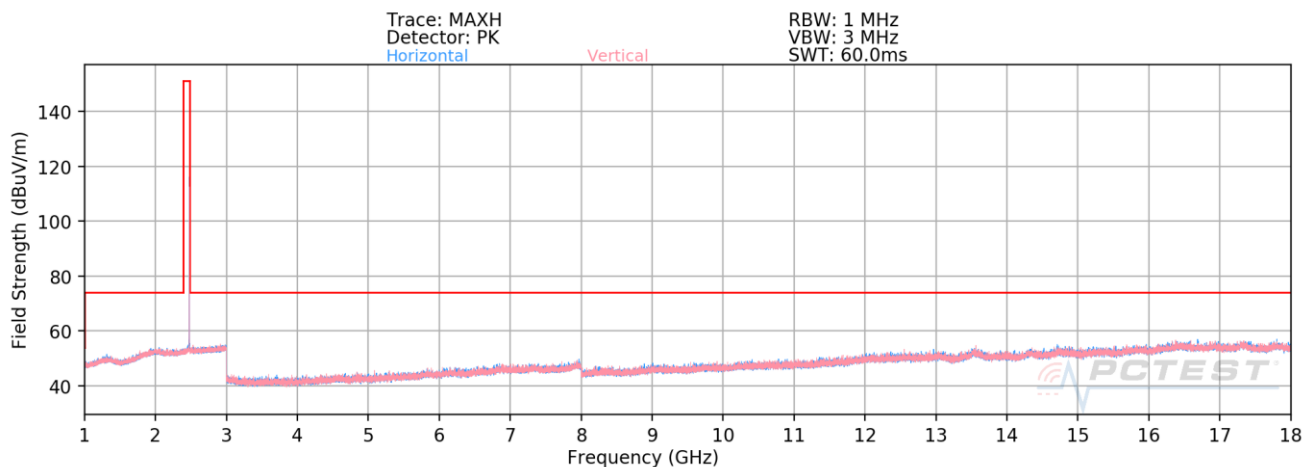
Plot 7-58. Radiated Spurious Emissions above 1GHz Antenna 4a (BT GFSK ePA – Ch. 39)

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2441MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4804.00	Peak	H	-	-	-66.93	4.39	44.46	73.98	-29.52
7206.00	Peak	H	-	-	-68.56	8.52	46.96	73.98	-27.02
9608.00	Peak	H	-	-	-71.53	17.16	52.63	73.98	-21.35

Table 7-14. Radiated Measurements Antenna 4a

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-59. Radiated Spurious Emissions above 1GHz Antenna 4a (BT GFSK ePA – Ch. 78)

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2480MHz
Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4960.00	Peak	H	135	164	-66.15	4.20	45.05	73.98	-28.93
7440.00	Peak	H	-	-	-67.79	8.52	47.73	73.98	-26.25
12400.00	Peak	H	-	-	-74.01	17.41	50.40	73.98	-23.58

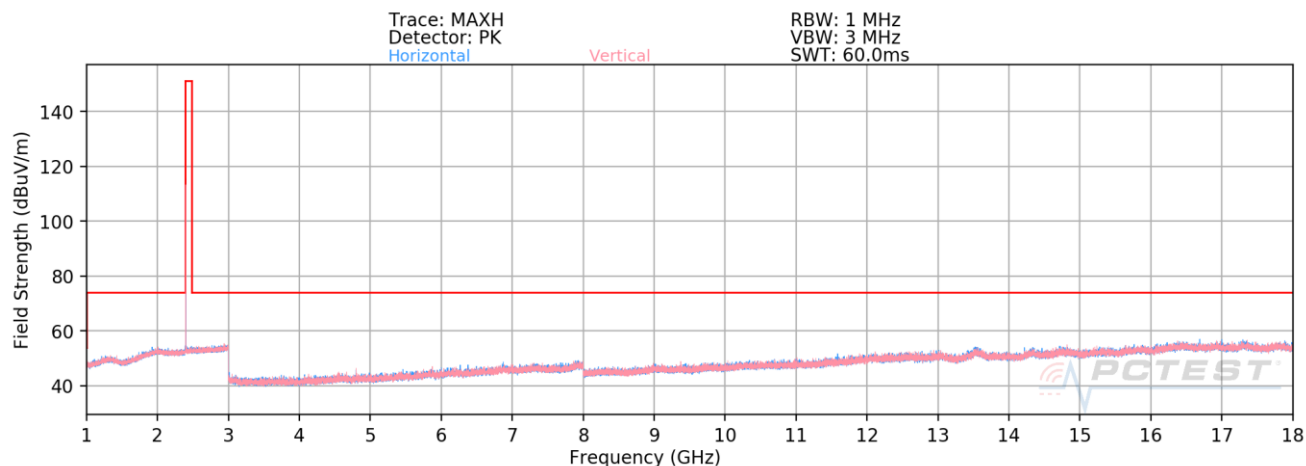
Table 7-15. Radiated Measurements Antenna 4a

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Radiated Spurious Emission Measurements (1 – 18GHz)

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Antenna 2a



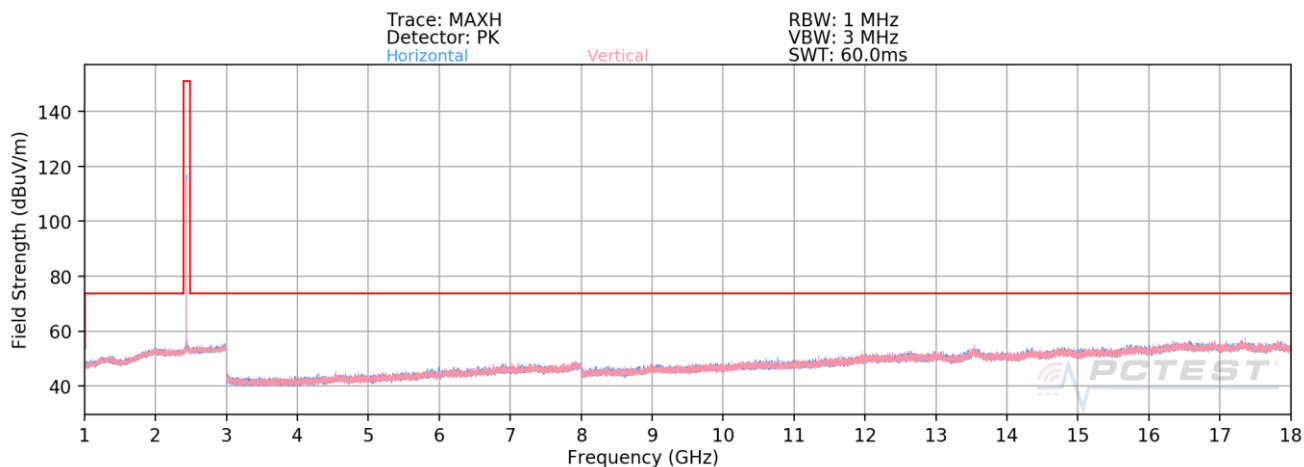
Plot 7-60. Radiated Spurious Emissions above 1GHz Antenna 2a (BT GFSK ePA – Ch. 0)

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4804.00	Peak	V	280	6	-63.48	4.34	47.86	73.98	-26.12
12010.00	Peak	H	-	-	-73.45	17.00	50.55	73.98	-23.43

Table 7-16. Radiated Measurements Antenna 2a

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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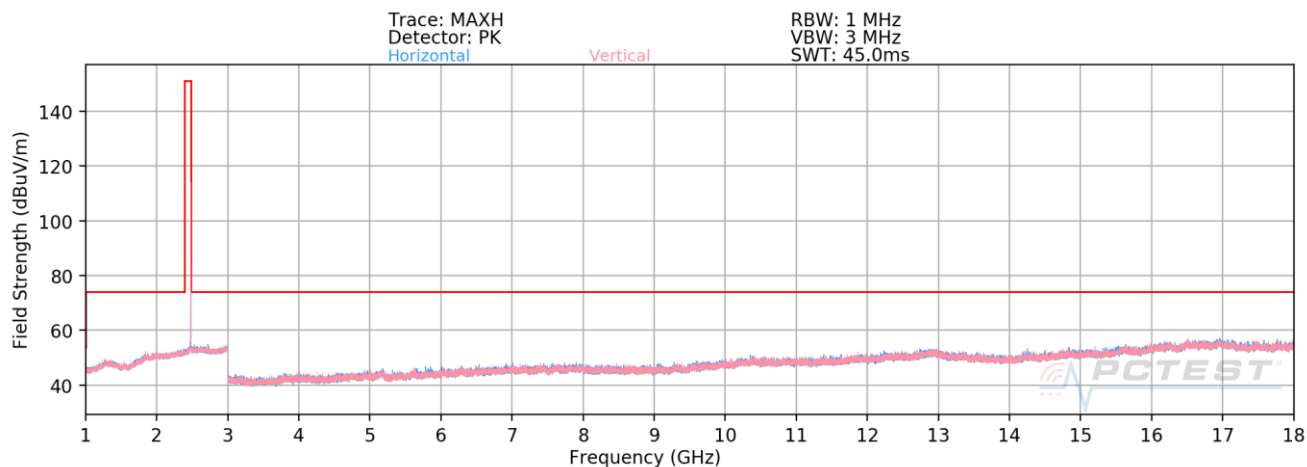
Plot 7-61. Radiated Spurious Emissions above 1GHz Antenna 2a (BT GFSK ePA – Ch. 39)

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2441MHz
Channel: 39

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]
4882.00	Peak	H	-	-	-66.86	4.39	44.53	73.98	-29.45
7323.00	Peak	H	-	-	-68.59	8.52	46.93	73.98	-27.05
12205.00	Peak	H	-	-	-73.17	17.16	50.99	73.98	-22.99

Table 7-17. Radiated Measurements Antenna 2a

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-62. Radiated Spurious Emissions above 1GHz Antenna 2a (BT GFSK ePA – Ch. 78)

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2480MHz
Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4960.00	Peak	H	-	-	-66.17	5.96	46.79	73.98	-27.19
7440.00	Peak	H	-	-	-67.31	10.49	50.18	73.98	-23.80
12400.00	Peak	H	-	-	-68.54	17.43	55.89	73.98	-18.09

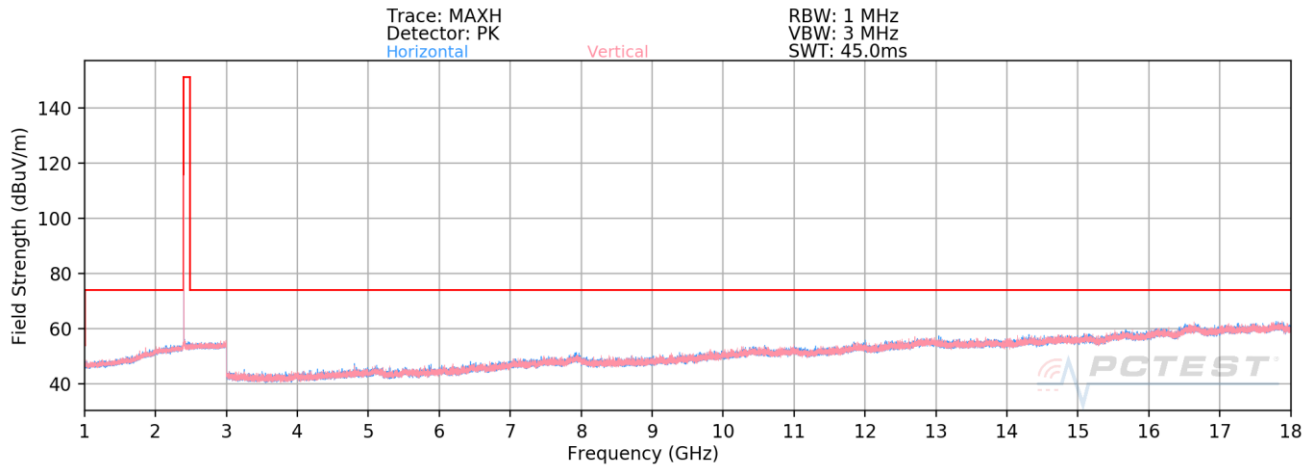
Table 7-18. Radiated Measurements Antenna 2a

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Radiated Spurious Emission Measurements (1 – 18GHz)

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

TxBF



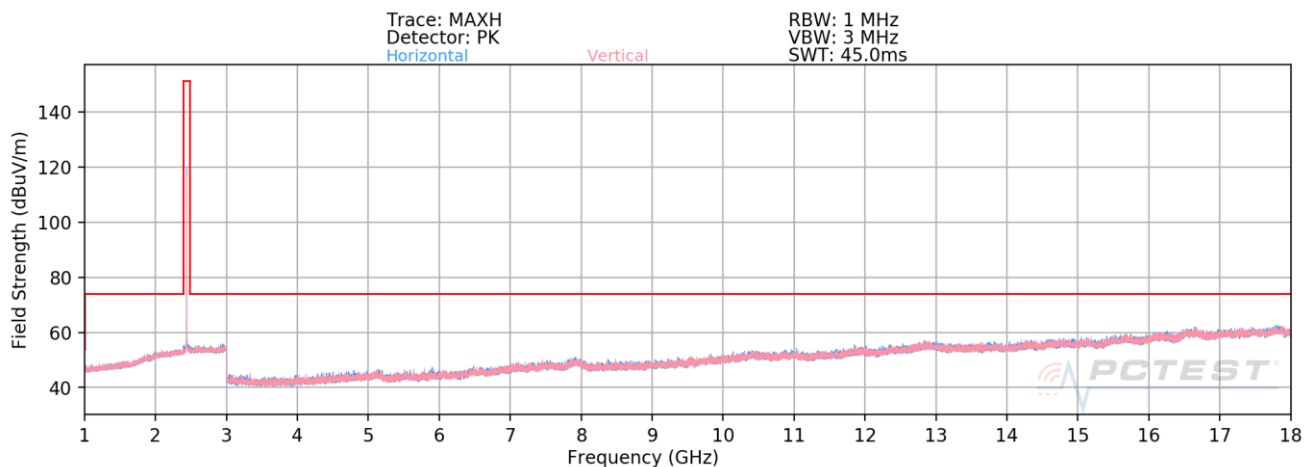
Plot 7-63. Radiated Spurious Emissions above 1GHz TxBF (BT GFSK ePA – Ch. 0)

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

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]
4804.00	Peak	H	110	338	-68.06	9.09	48.03	73.98	-25.95
12010.00	Peak	H	-	-	-74.73	21.24	53.51	73.98	-20.46

Table 7-19. Radiated Measurements TxBF

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 67 of 91



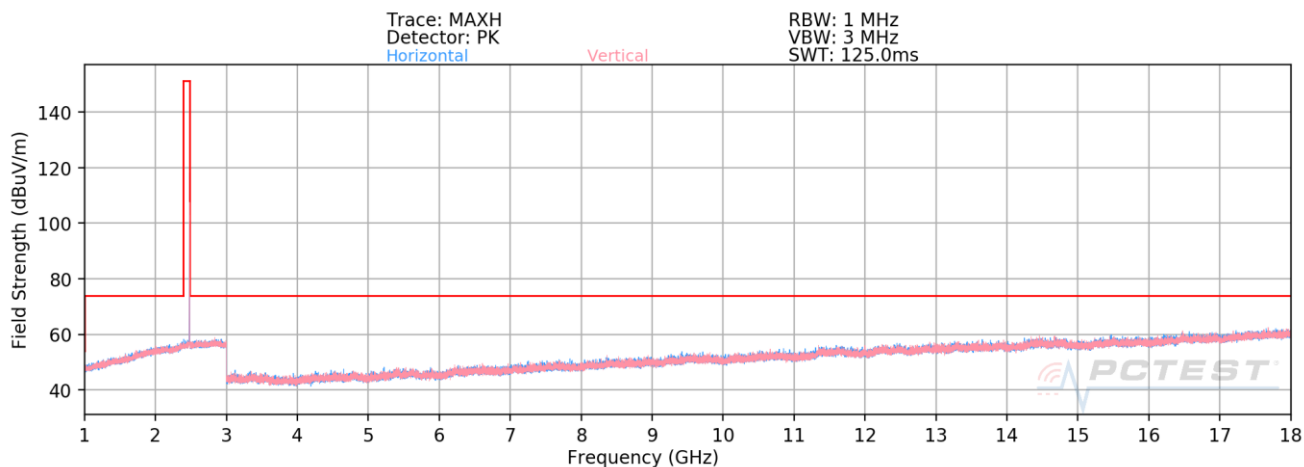
Plot 7-64. Radiated Spurious Emissions above 1GHz TxBF (BT GFSK ePA – Ch. 39)

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2441MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4882.00	Peak	H	105	338	-70.11	9.49	46.38	73.98	-27.60
7323.00	Peak	H	-	-	-72.30	13.93	48.63	73.98	-25.35
12205.00	Peak	H	-	-	-71.69	21.40	56.71	73.98	-17.26

Table 7-20. Radiated Measurements TxBF

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 68 of 91



Plot 7-65. Radiated Spurious Emissions above 1GHz Tx BF (BT GFSK ePA – Ch. 78)

Worst Case Mode: Bluetooth

Worst Case Data Rate: 1 Mbps

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4960.00	Peak	H	105	162	-69.84	9.41	46.57	73.98	-27.41
7440.00	Peak	H	-	-	-72.76	14.77	49.01	73.98	-24.97
12400.00	Peak	H	-	-	-75.18	21.89	53.71	73.98	-20.27

Table 7-21. Radiated Measurements Tx BF

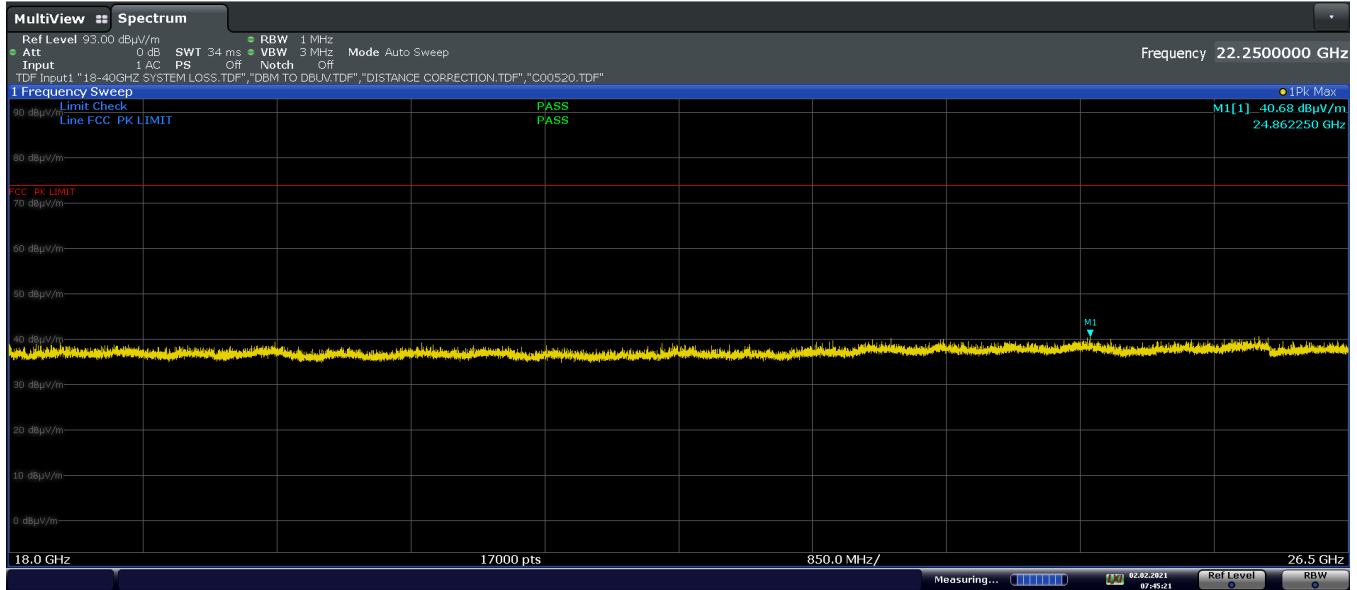
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 69 of 91

Radiated Spurious Emissions Measurements (Above 18GHz)

\$15.209; RSS-Gen [8.9]

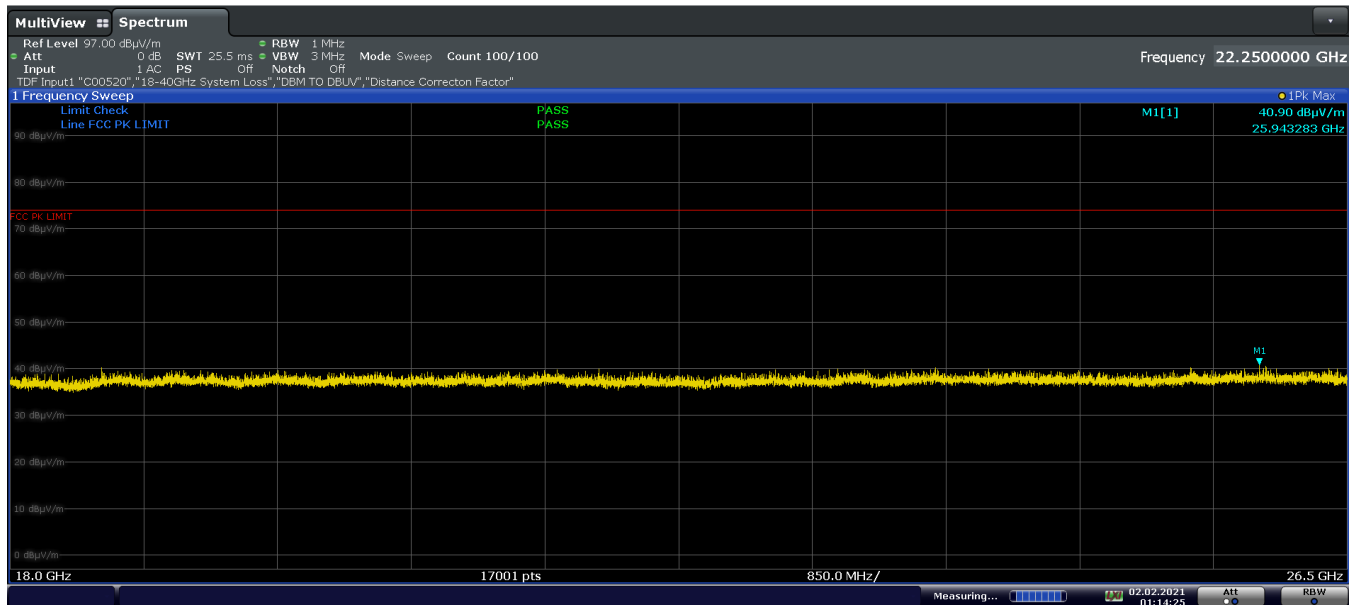
TxBF

CC2014 USI 10064 BT BDR ePA ch2441 IX q00_00



Plot 7-66. Radiated Spurious Emissions above 18GHz TxBF (GFSK ePA – Ch.0, Pol. H)

CC2014 USI BT BDR ePA Ch2441 q00_00 [V]



01:14:25 02.02.2021

Plot 7-67. Radiated Spurious Emissions above 18GHz TxBF (GFSK ePA – Ch.0, Pol. V)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 70 of 91

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7.10 Radiated Restricted Band Edge Measurements

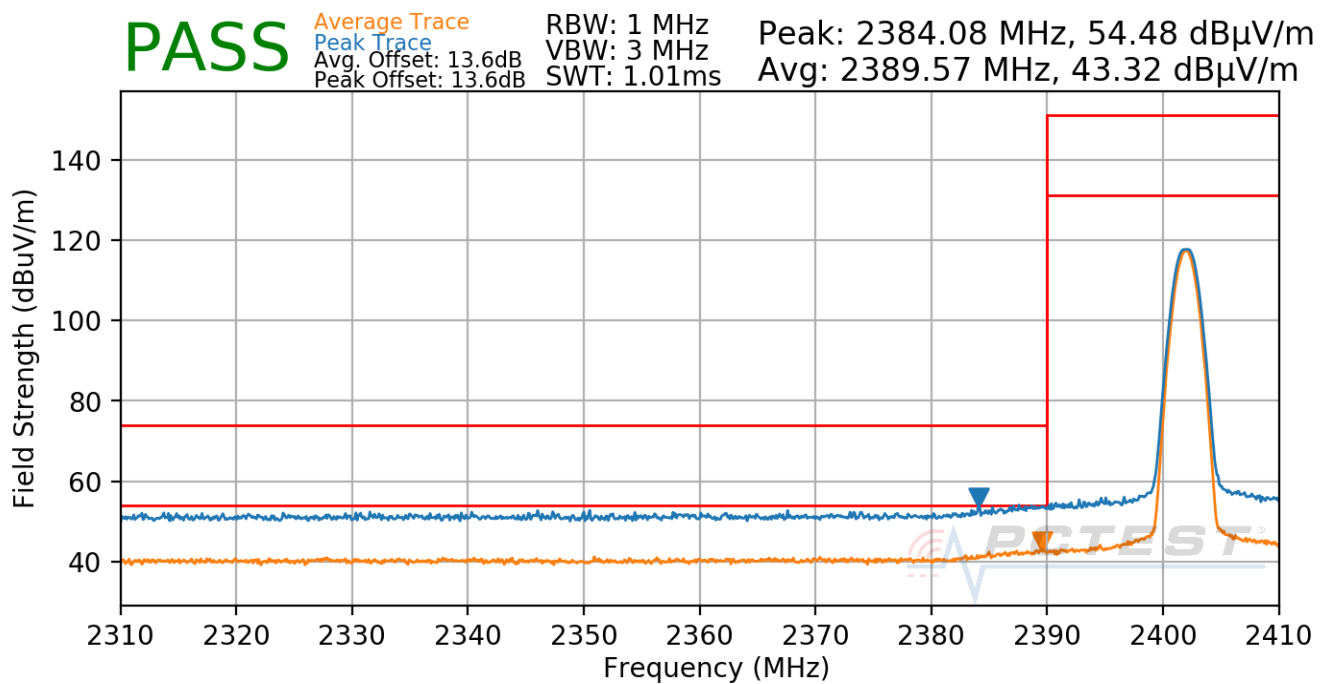
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Antenna 4a

Mode:	Bluetooth-Antenna 4a
Modulation:	GFSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0



Plot 7-68. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 71 of 91

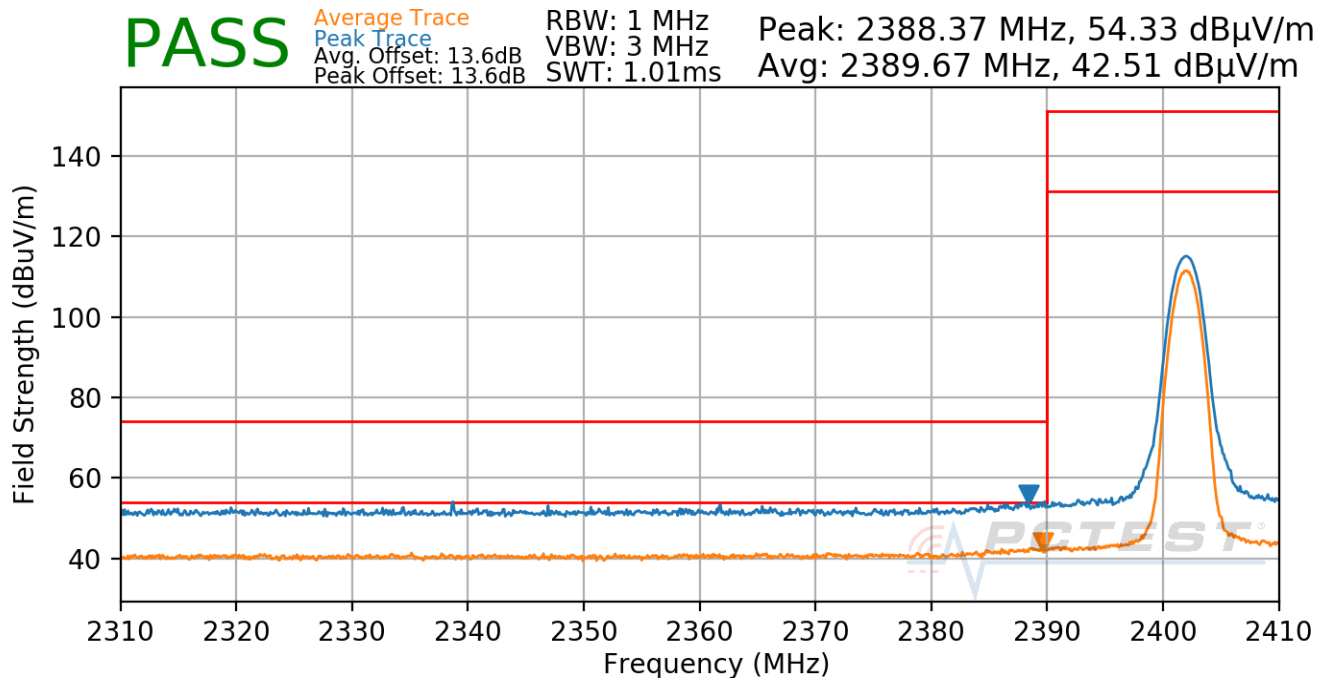
Radiated Restricted Band Edge Measurements

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Mode:	Bluetooth-Antenna 4a
Modulation:	8DPSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0



Plot 7-69. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 72 of 91

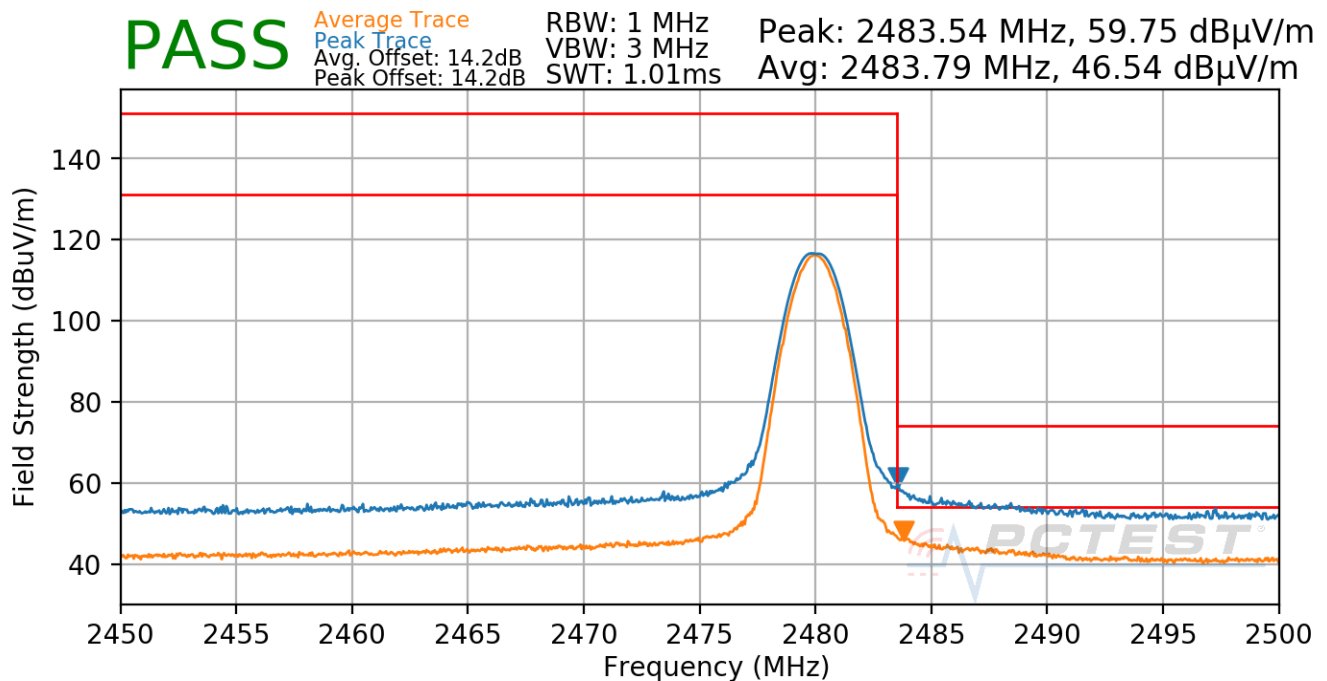
Radiated Restricted Band Edge Measurements

\$15.205 \$15.209 \$15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Mode:	Bluetooth-Antenna 4a
Modulation:	GFSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-70. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 73 of 91

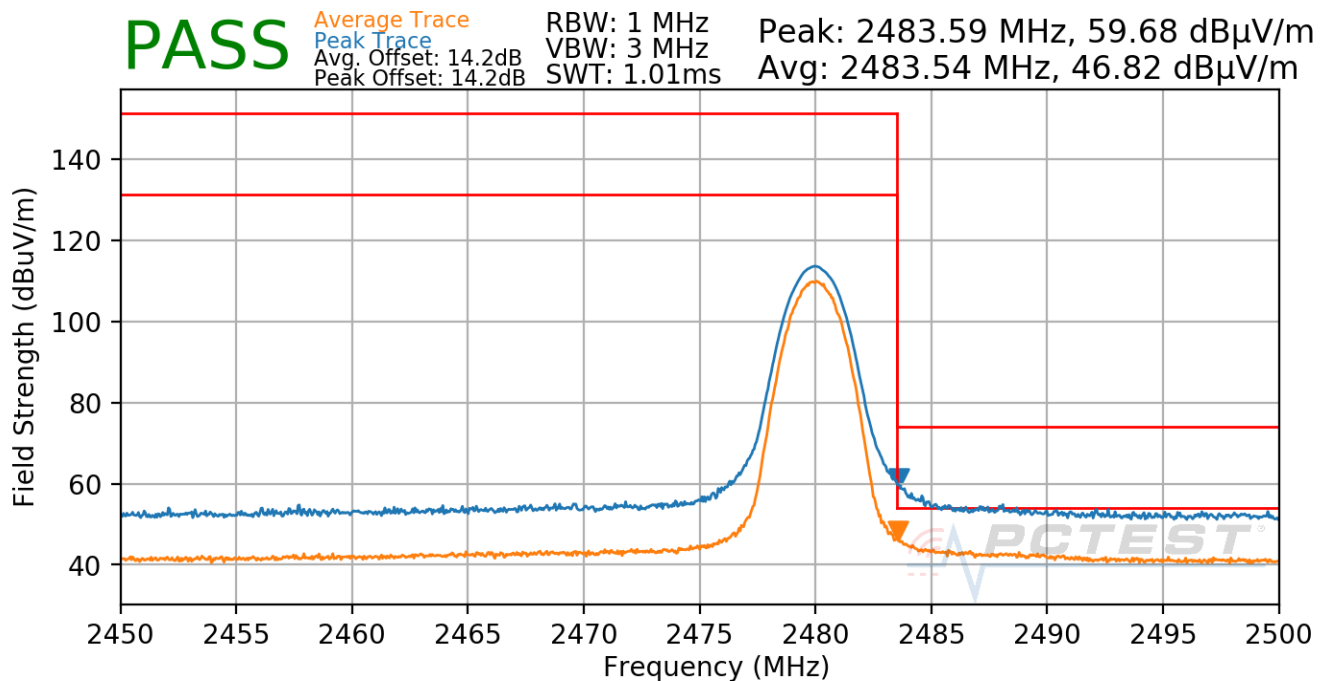
Radiated Restricted Band Edge Measurements

\$15.205 \$15.209 \$15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Mode:	Bluetooth-Antenna 4a
Modulation:	8DPSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-71. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 74 of 91

Radiated Restricted Band Edge Measurements

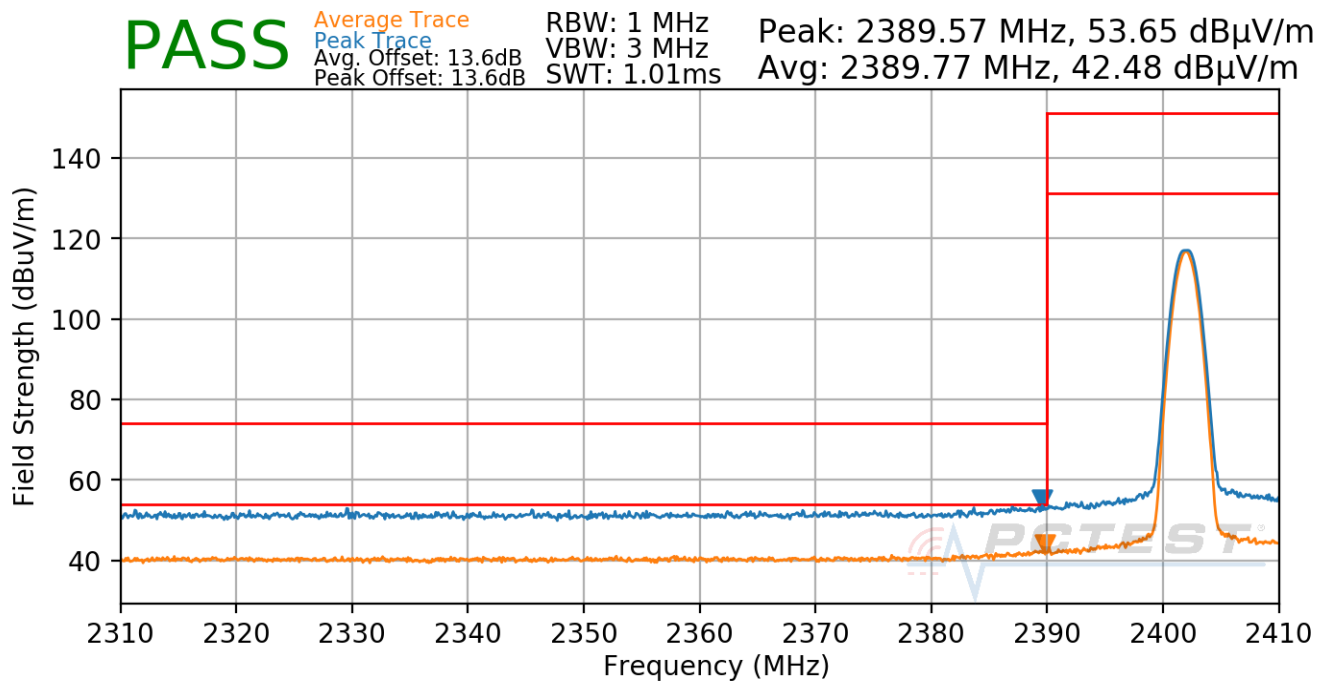
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Antenna 2a

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Mode:	Bluetooth-Antenna 2a
Modulation:	GFSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0



Plot 7-72. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 75 of 91

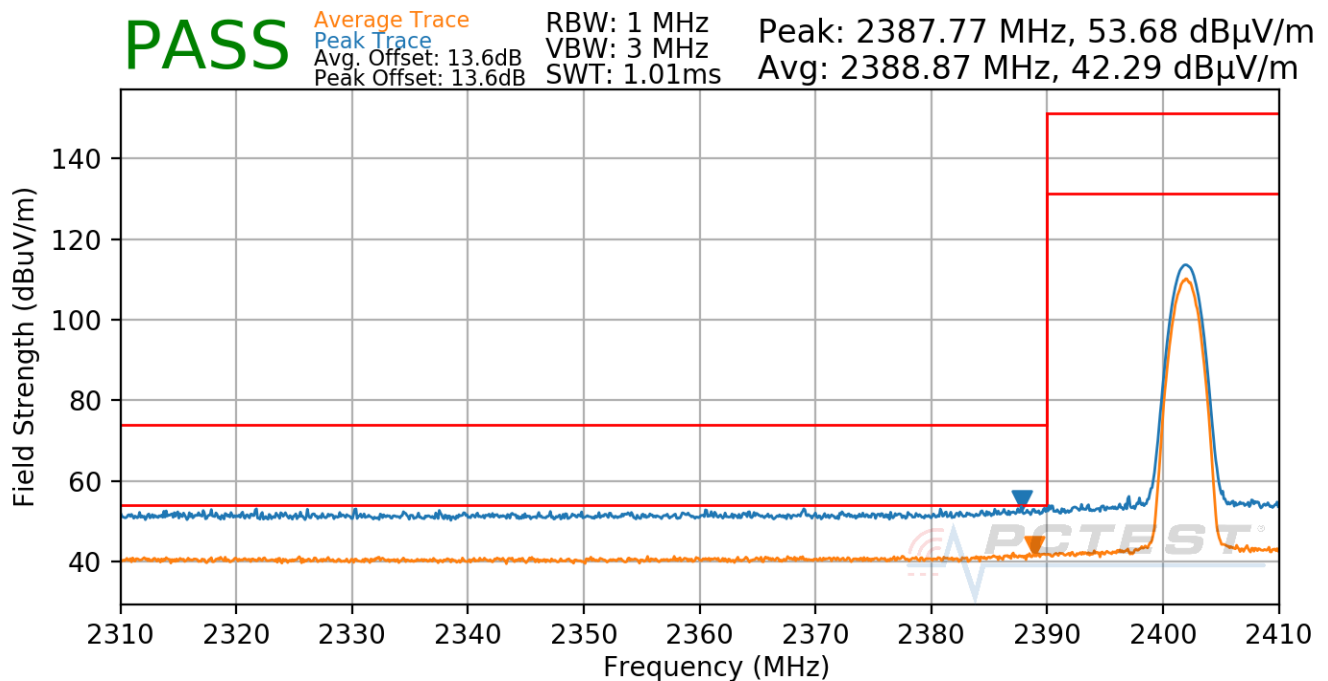
Radiated Restricted Band Edge Measurements

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Mode:	Bluetooth-Antenna 2a
Modulation:	8DPSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0



Plot 7-73. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 76 of 91

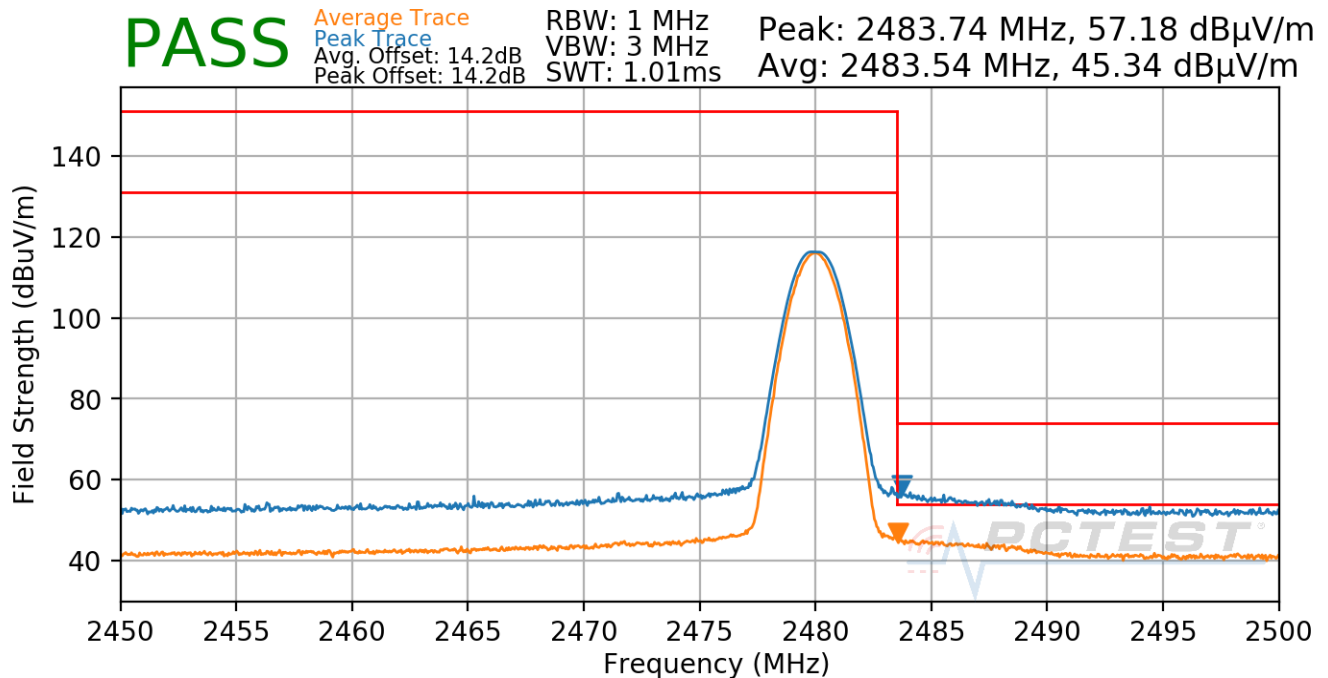
Radiated Restricted Band Edge Measurements

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Mode:	Bluetooth-Antenna 2a
Modulation:	GFSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-74. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 77 of 91

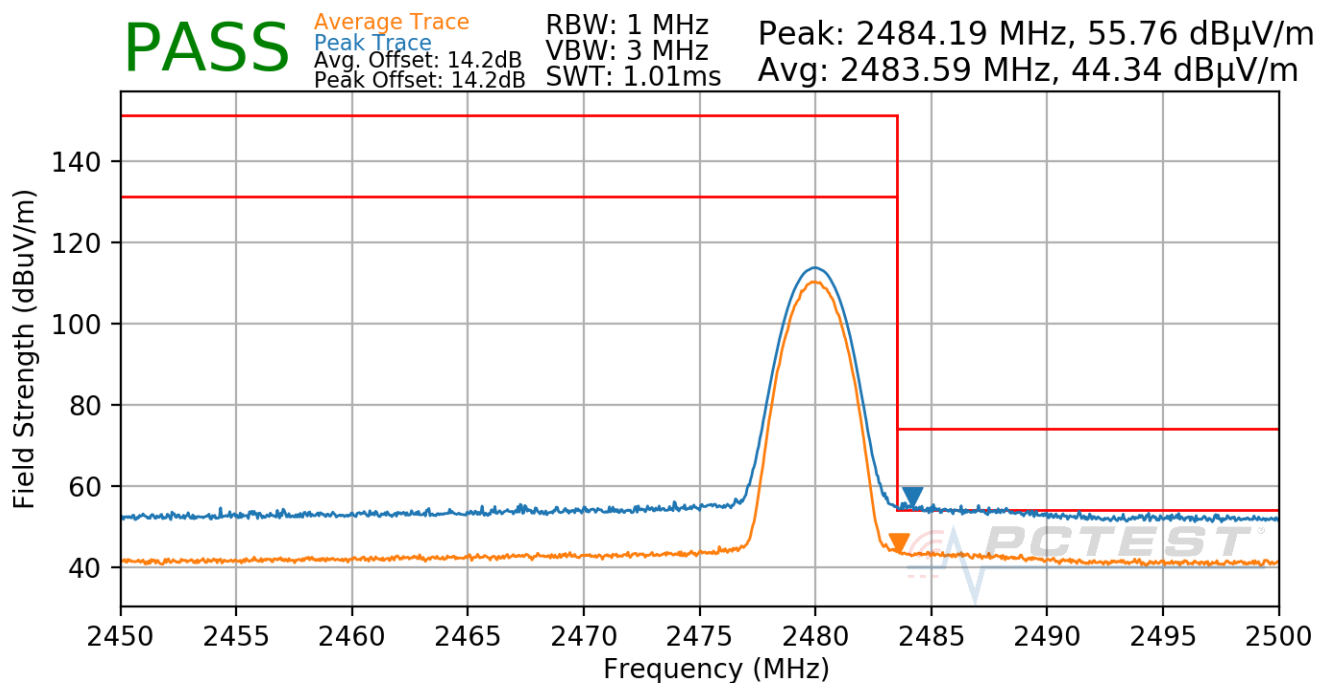
Radiated Restricted Band Edge Measurements

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Mode:	Bluetooth-Antenna 2a
Modulation:	8DPSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-75. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 78 of 91

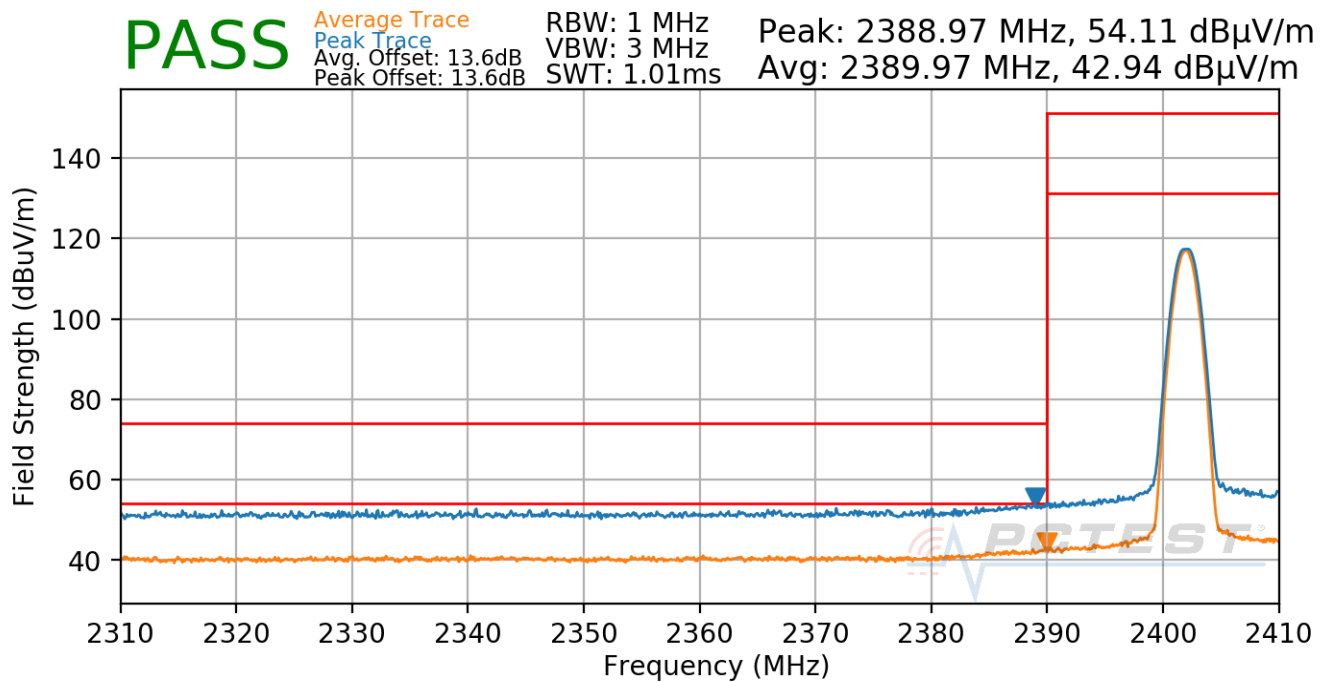
Radiated Restricted Band Edge Measurements §15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

TxBF

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Mode:	Bluetooth-TxBF
Modulation:	GFSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0



Plot 7-76. Radiated Restricted Lower Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 79 of 91

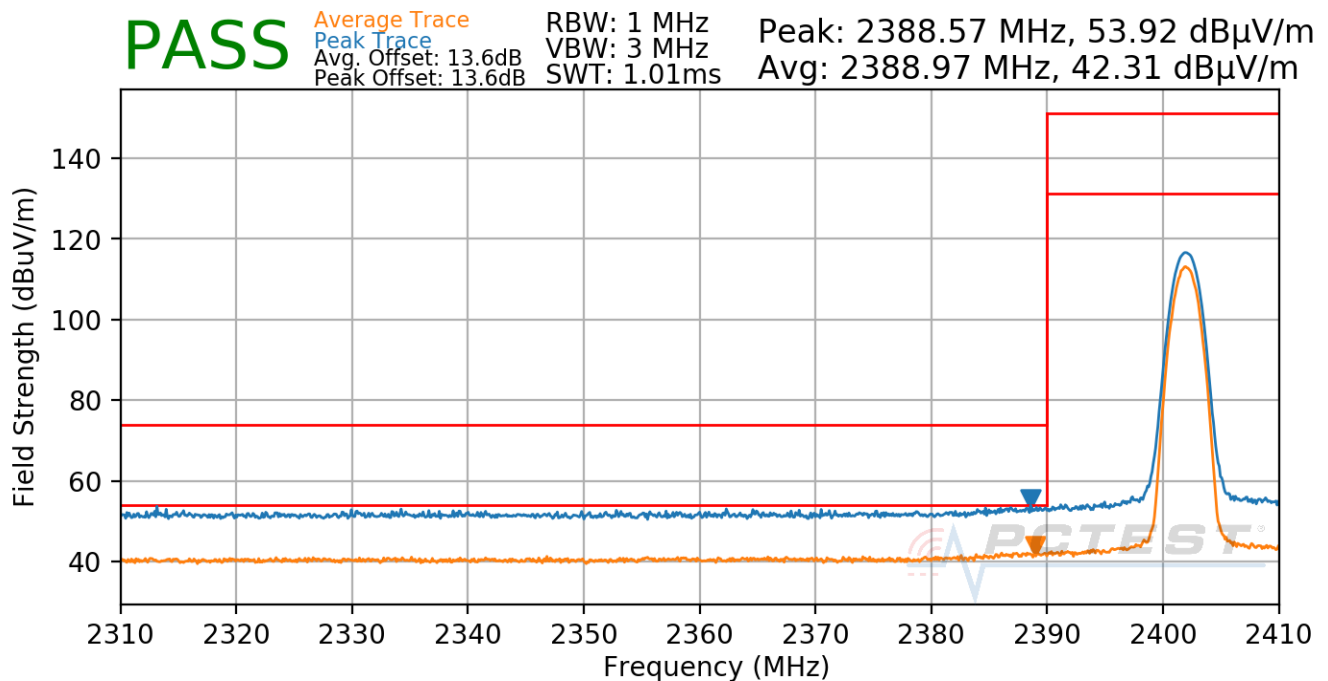
Radiated Restricted Band Edge Measurements

\$15.205 \$15.209 \$15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Mode:	Bluetooth-TxBF
Modulation:	8DPSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0



Plot 7-77. Radiated Restricted Lower Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 80 of 91

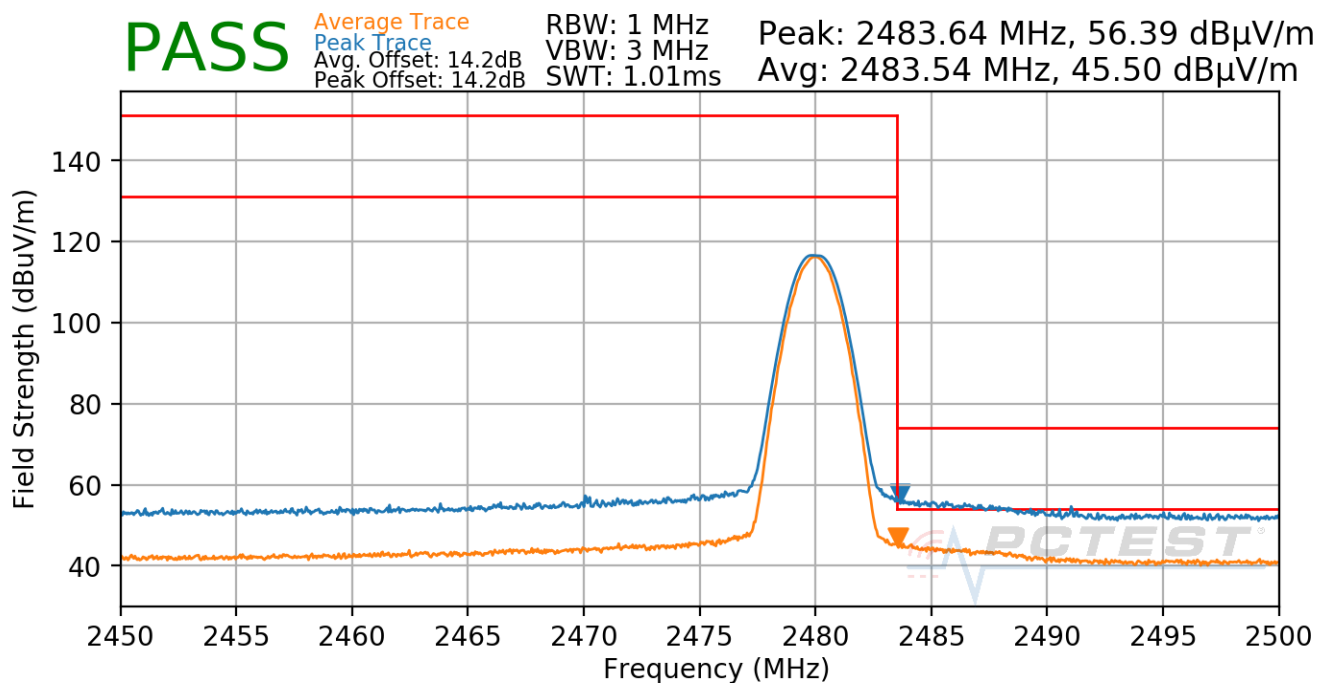
Radiated Restricted Band Edge Measurements

\$15.205 \$15.209 \$15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Mode:	Bluetooth-TxBF
Modulation:	GFSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-78. Radiated Restricted Upper Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 81 of 91

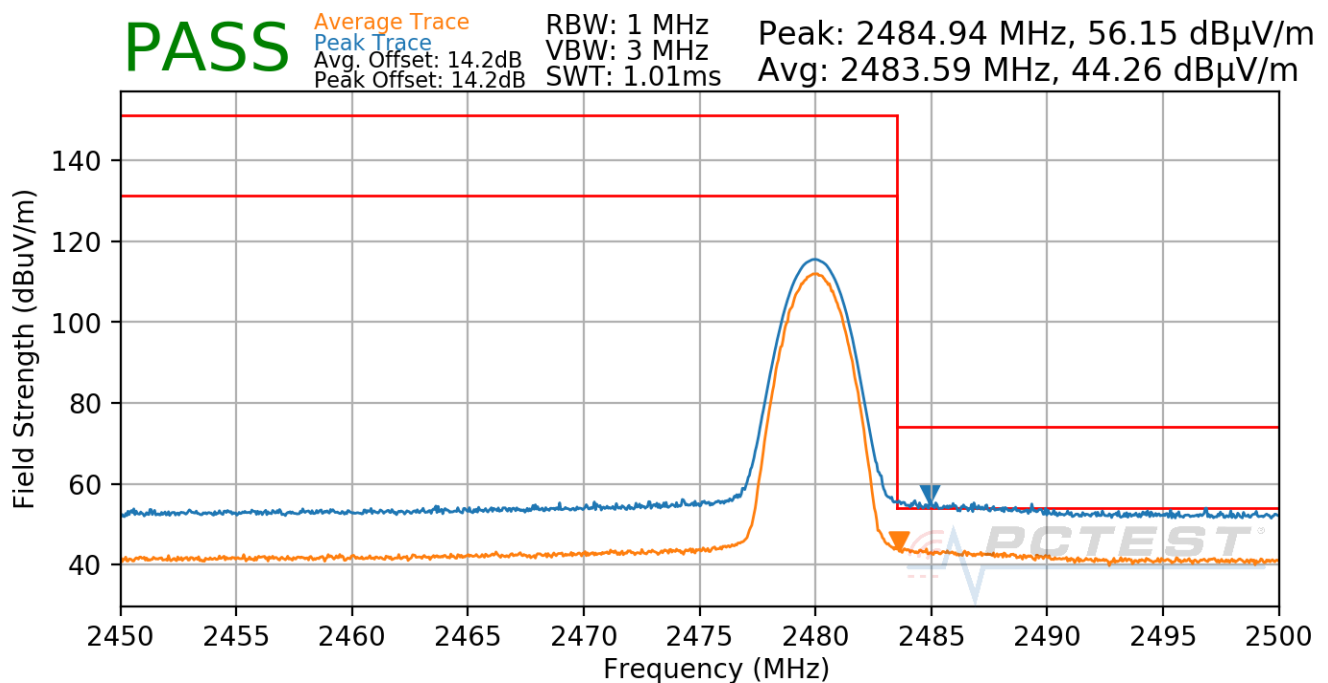
Radiated Restricted Band Edge Measurements

\$15.205 \$15.209 \$15.247 (d); RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Mode:	Bluetooth-TxBF
Modulation:	8DPSK
Worst Case Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-79. Radiated Restricted Upper Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 82 of 91

7.11 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

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 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-22 per Section 15.209 and RSS-Gen (8.9).

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 7-22. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

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

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Test Setup

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

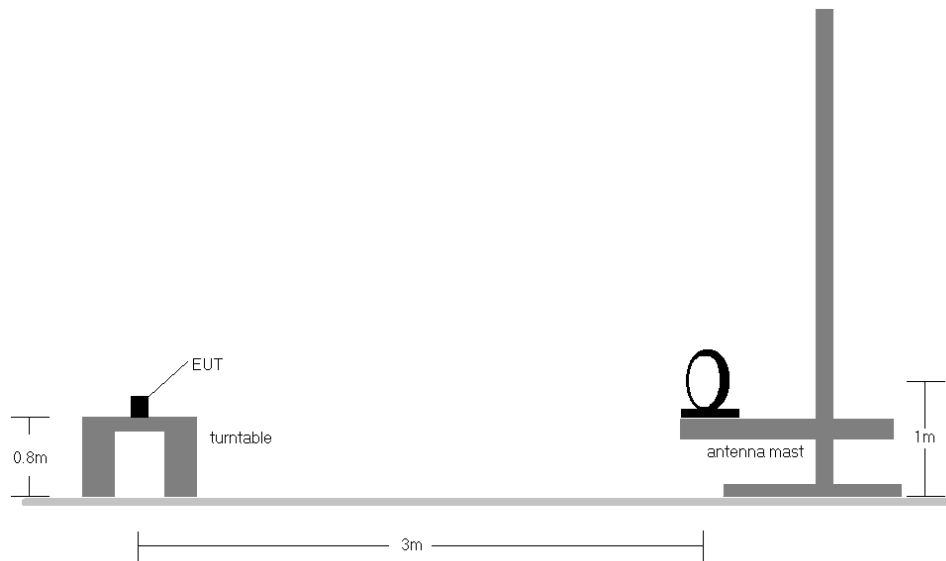


Figure 7-9. Radiated Test Setup < 30Mhz

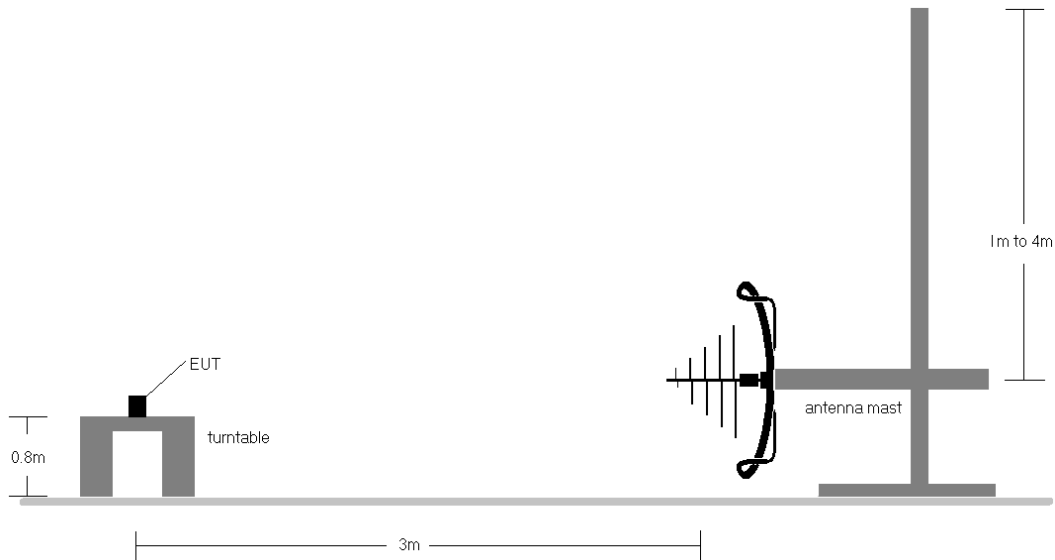


Figure 7-10. Radiated Test Setup < 1GHz

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-22.
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 on emissions that were 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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
11. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

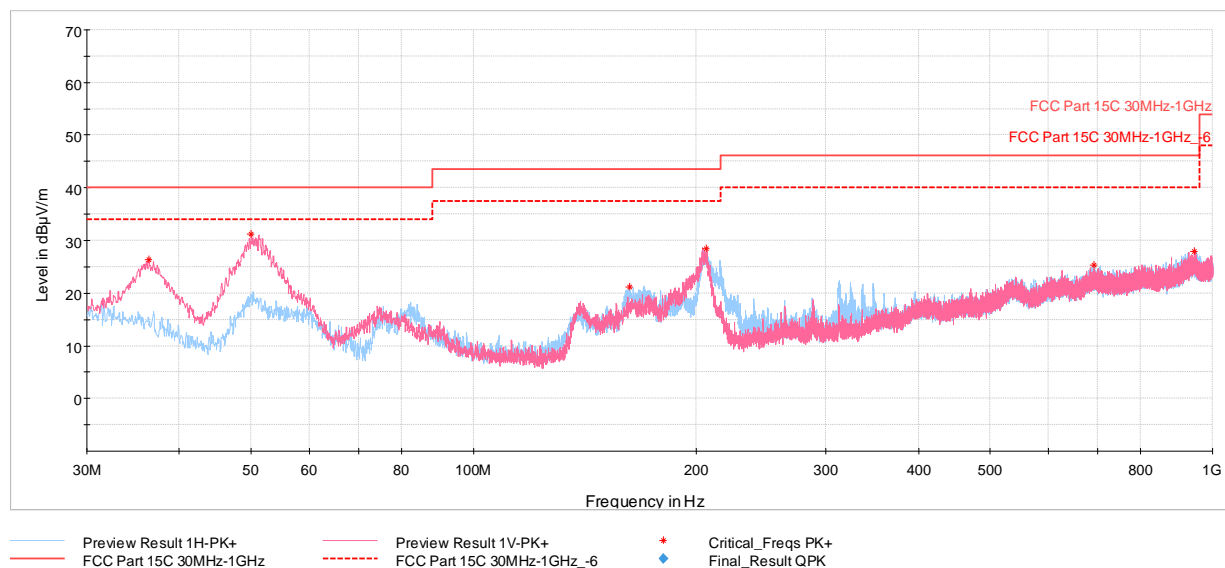
Sample Calculation

- 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]

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-13.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 85 of 91

TxBF Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-80. Radiated Spurious Emissions below 1GHz TxBF (GFSK ePA – Ch.0, with AC/DC Adapter)

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]
36.35	Max Peak	V	100	316	-65.61	-15.01	26.38	40.00	-13.62
50.03	Max Peak	V	100	26	-54.78	-21.07	31.15	40.00	-8.85
162.84	Max Peak	H	100	258	-68.47	-17.29	21.24	43.52	-22.28
206.39	Max Peak	H	100	110	-62.03	-16.54	28.43	43.52	-15.09
692.03	Max Peak	H	100	136	-79.00	-2.60	25.40	46.02	-20.62
944.76	Max Peak	V	250	345	-79.30	0.25	27.95	46.02	-18.07

Table 7-23. Radiated Spurious Emissions Below 1GHz TxBF (GFSK ePA – Ch.0 with AC/DC Adapter)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.12 AC Line-Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

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. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

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 7-24. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 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.

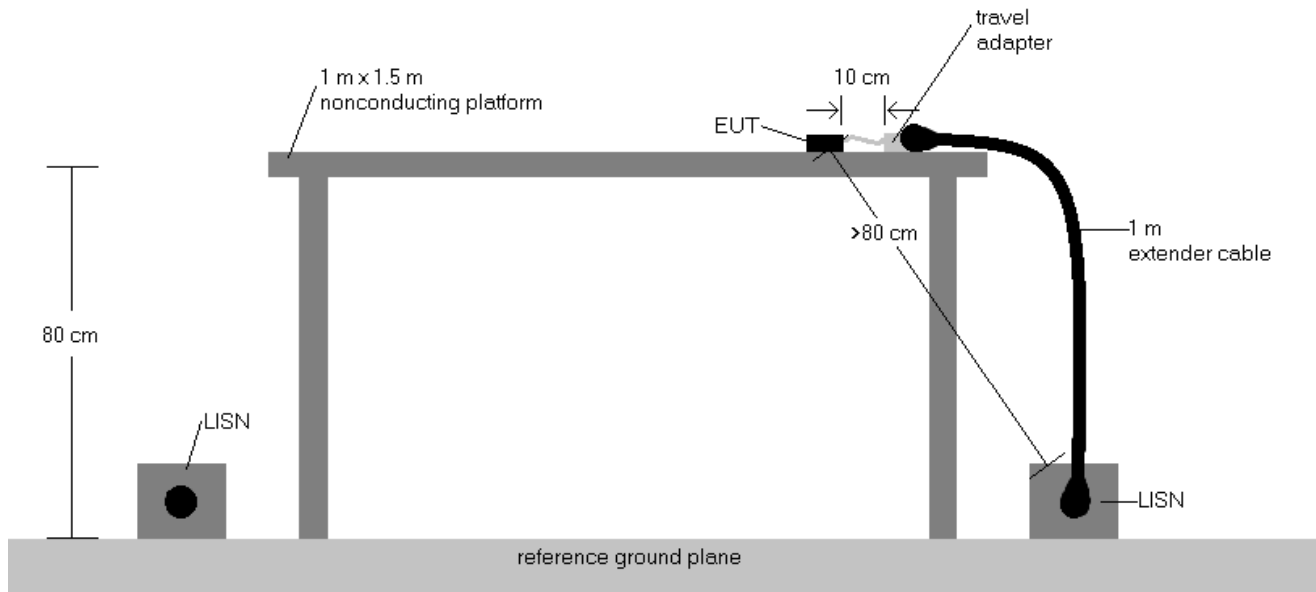
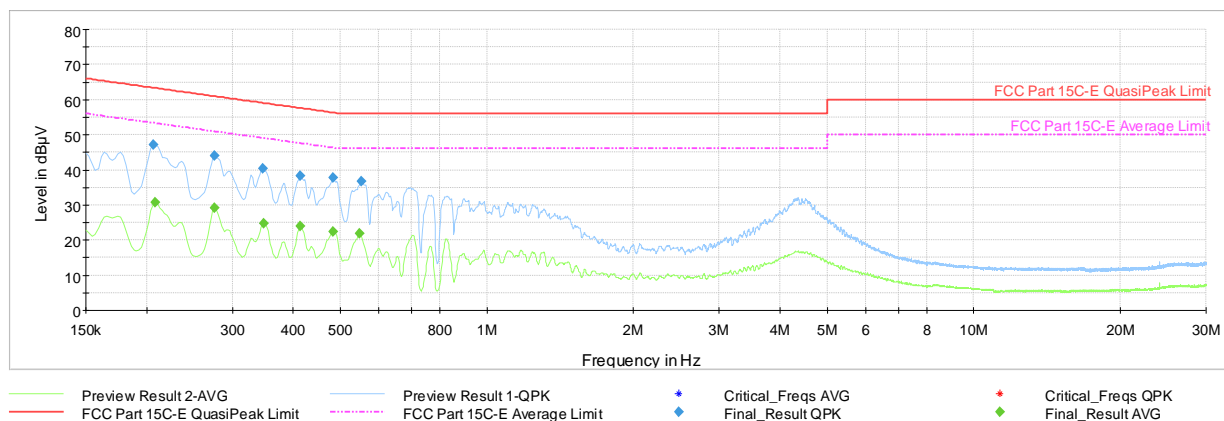


Figure 7-11. Test Instrument & Measurement Setup

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. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
6. Traces shown in plot are made using a quasi peak and average detectors.
7. Deviations to the Specifications: None.
8. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
9. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

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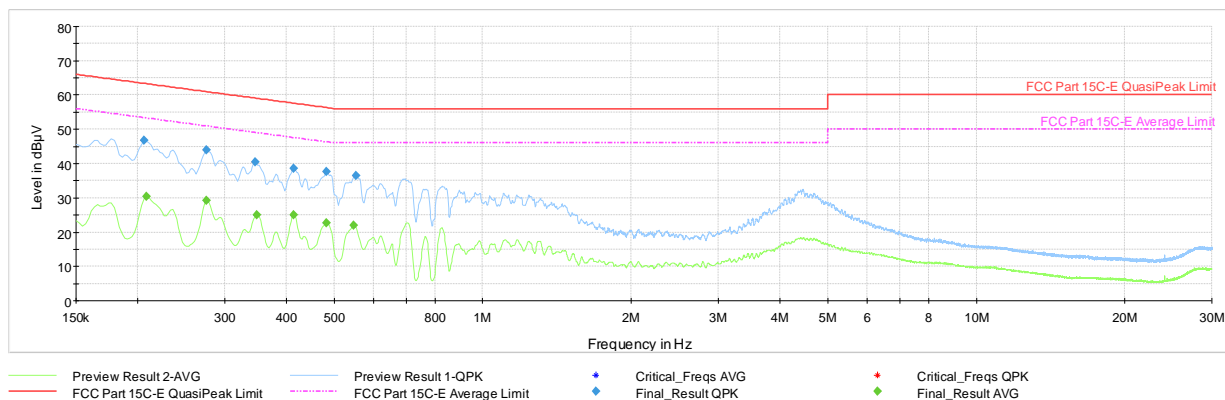


Plot 7-81. AC Line-Conducted Test Plot TxBF (L1, GFSK ePA – Ch.0, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.206	FINAL	47.2	—	63.36	-16.11	L1	GND
0.209	FINAL	—	30.80	53.27	-22.46	L1	GND
0.276	FINAL	44.0	—	60.94	-16.89	L1	GND
0.276	FINAL	—	29.20	50.94	-21.73	L1	GND
0.346	FINAL	40.3	—	59.06	-18.73	L1	GND
0.348	FINAL	—	24.63	49.01	-24.38	L1	GND
0.413	FINAL	—	24.06	47.58	-23.53	L1	GND
0.413	FINAL	38.3	—	57.58	-19.33	L1	GND
0.483	FINAL	—	22.52	46.29	-23.77	L1	GND
0.483	FINAL	37.7	—	56.29	-18.63	L1	GND
0.548	FINAL	—	21.90	46.00	-24.10	L1	GND
0.553	FINAL	36.6	—	56.00	-19.38	L1	GND

Table 7-25. AC Line-Conducted Test Data TxBF (L1, GFSK ePA – Ch.0, with AC/DC Adapter)

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Plot 7-82. AC Line-Conducted Test Plot TxBF (N, GFSK ePA – Ch.0, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.206	FINAL	46.8	—	63.36	-16.58	N	GND
0.209	FINAL	—	30.44	53.27	-22.83	N	GND
0.276	FINAL	44.0	—	60.94	-16.97	N	GND
0.276	FINAL	—	29.16	50.94	-21.77	N	GND
0.346	FINAL	40.4	—	59.06	-18.63	N	GND
0.348	FINAL	—	25.02	49.01	-23.99	N	GND
0.413	FINAL	—	25.12	47.58	-22.46	N	GND
0.413	FINAL	38.5	—	57.58	-19.07	N	GND
0.483	FINAL	—	22.79	46.29	-23.49	N	GND
0.483	FINAL	37.7	—	56.29	-18.62	N	GND
0.548	FINAL	—	22.07	46.00	-23.93	N	GND
0.553	FINAL	36.6	—	56.00	-19.39	N	GND

Table 7-26. AC Line-Conducted Test Data TxBF (N, GFSK ePA – Ch.0, with AC/DC Adapter)

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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: BCGA2379 and IC: 579C-A2379** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST [®] Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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