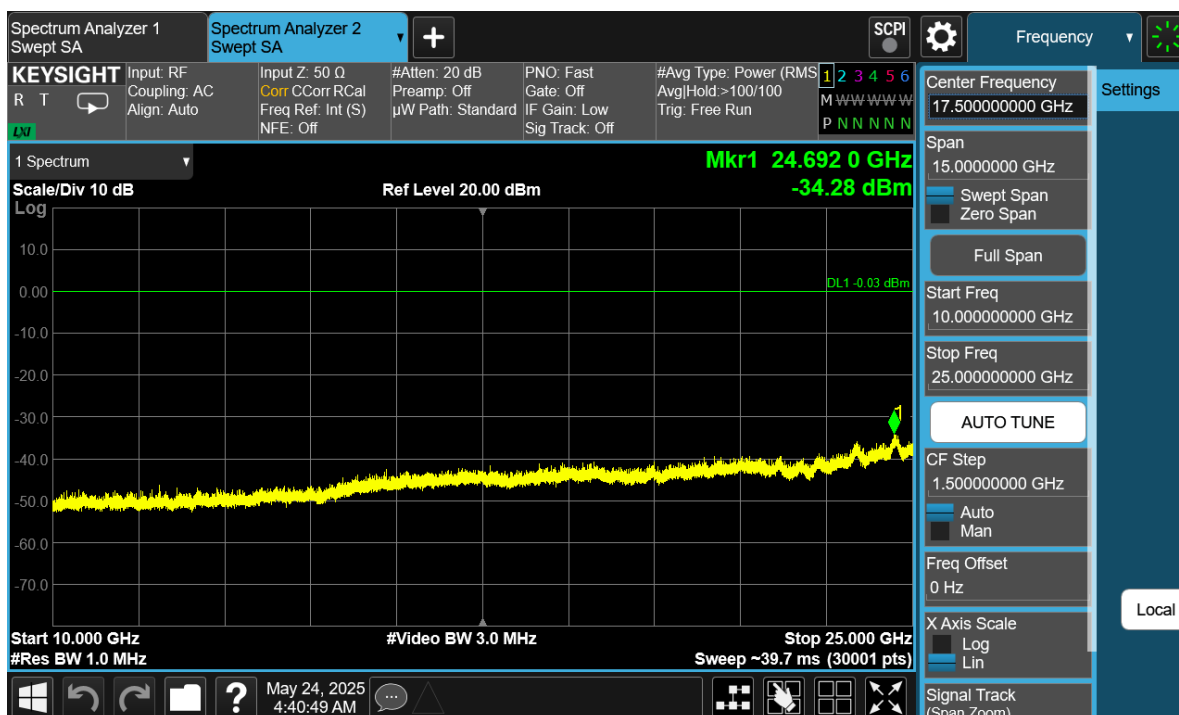
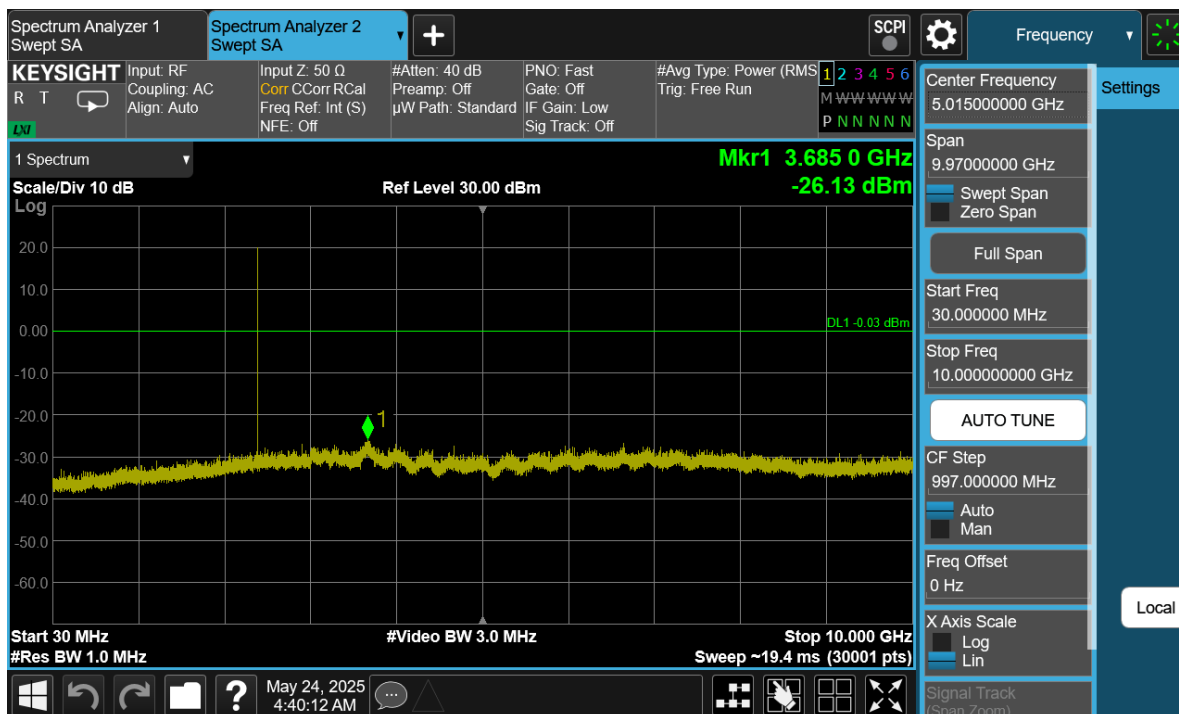


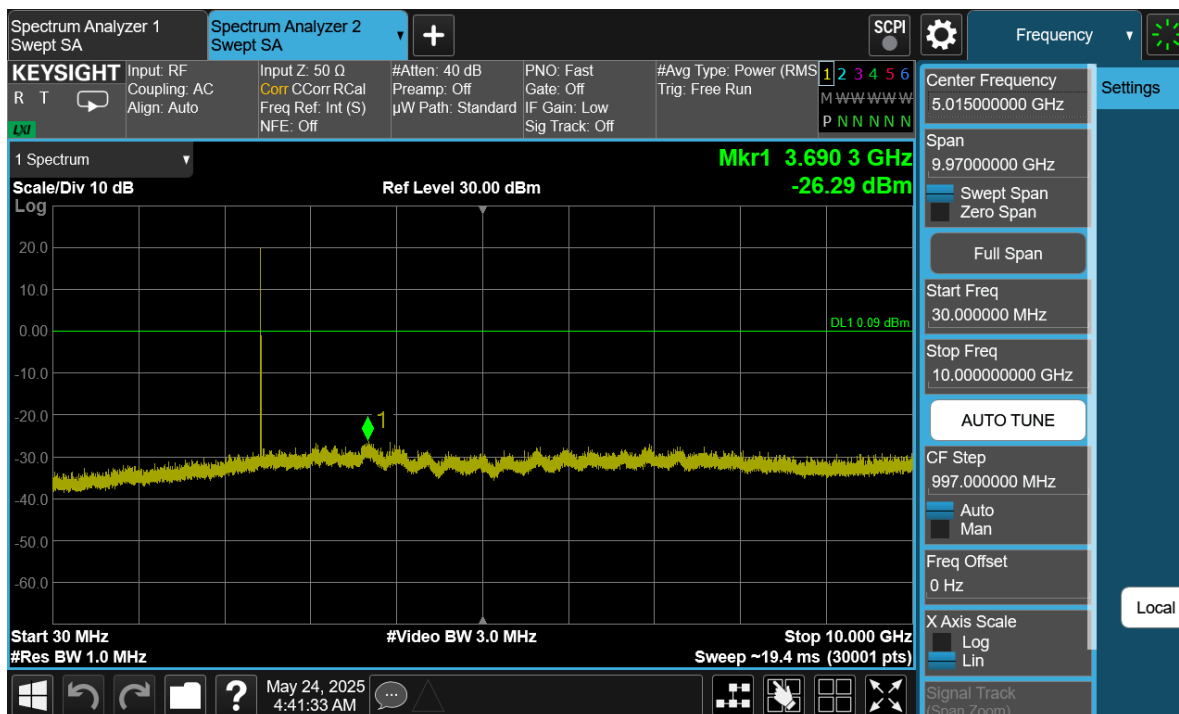
7.6.3 Antenna WF9 Conducted Spurious Emissions



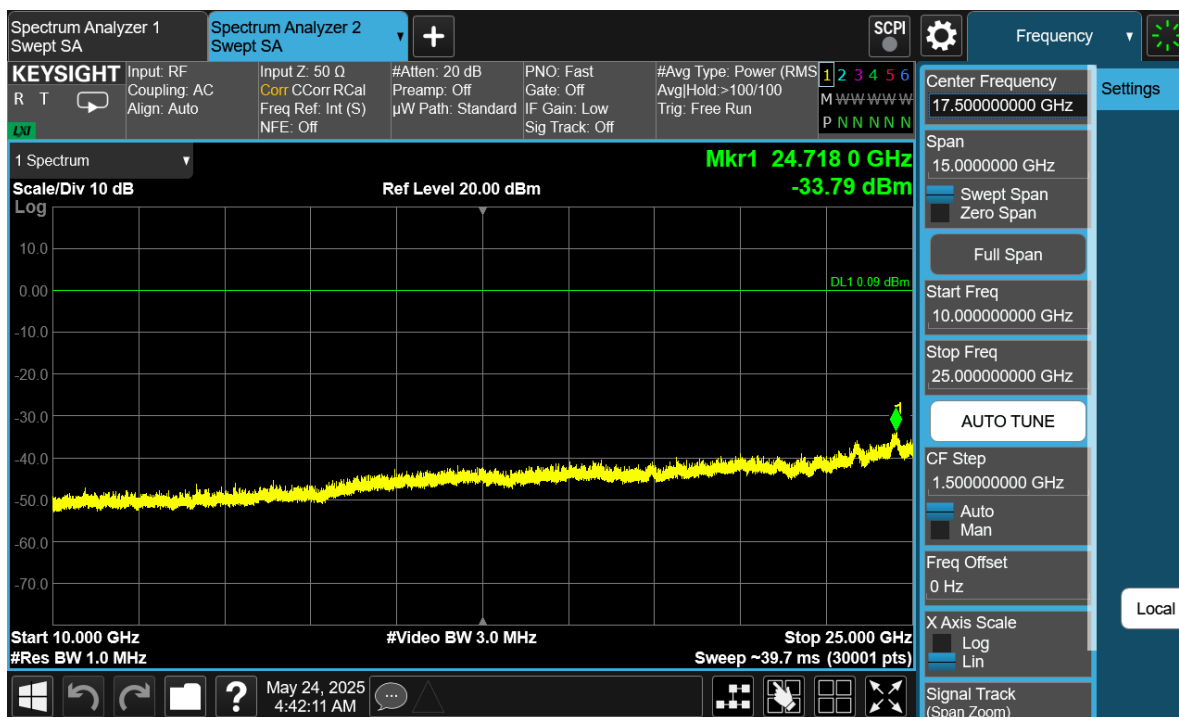
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-48. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 18)

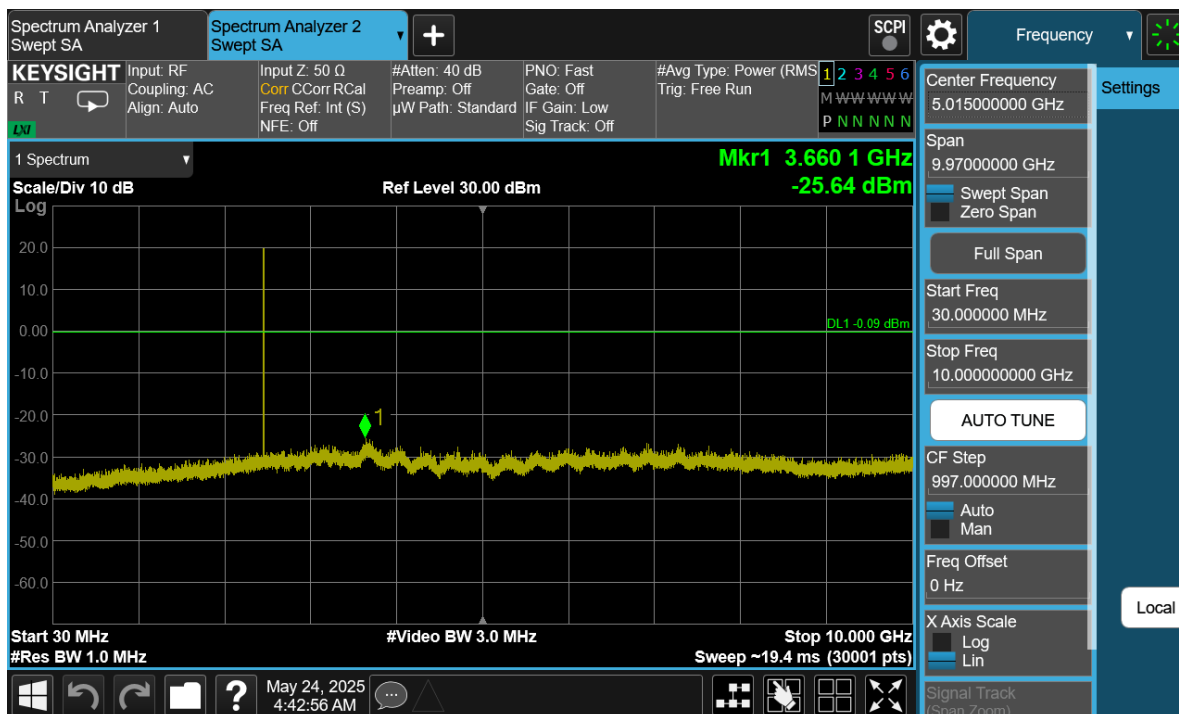


Plot 7-49. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 18)

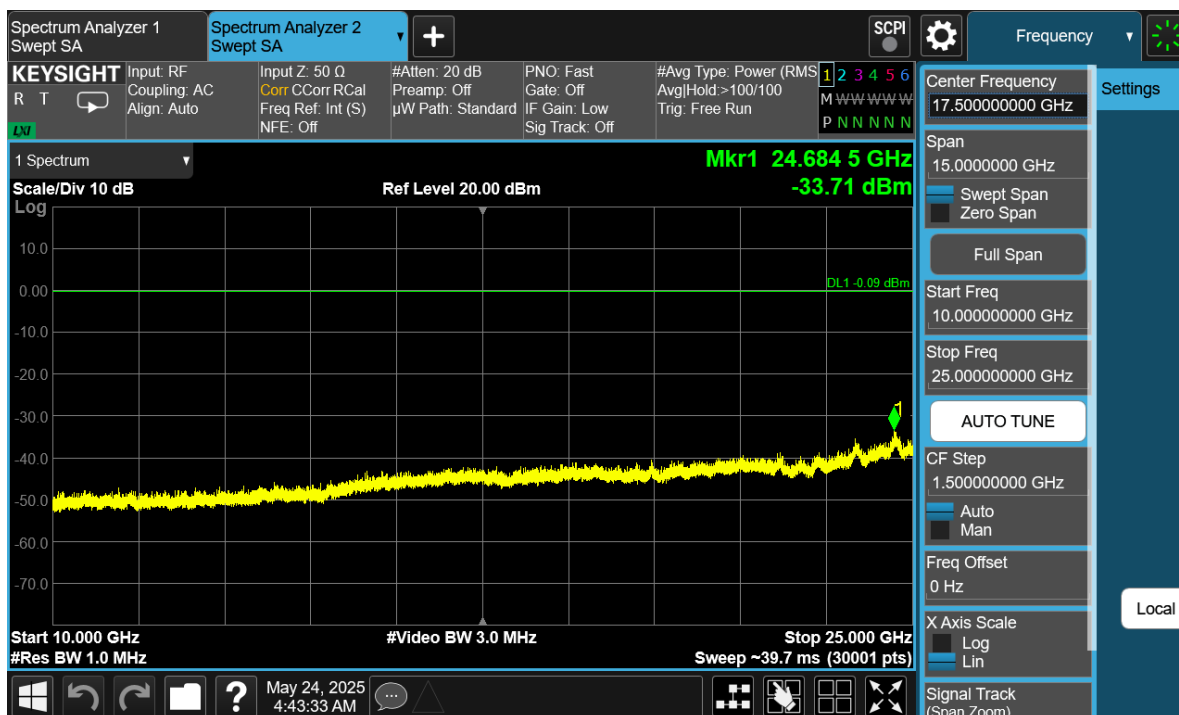
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-50. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 25)



Plot 7-51. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 25)

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7.7 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 7-14 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-14. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3

KDB 558074 D01 v05r02 – Section 8.6, 8.7

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 $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

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.

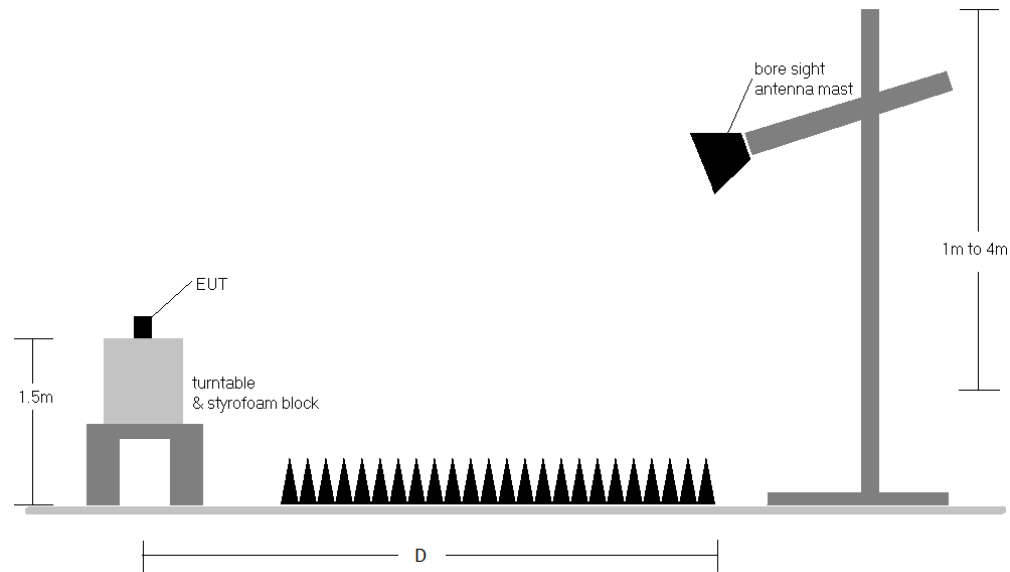


Figure 7-6. Radiated Measurement Setup >1GHz

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Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-14.
3. The antenna is manipulated through typical positions, polarity and height 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. Emissions below 18GHz were measured at a 3 meter test distance ($D = 3\text{m}$) while emissions above 18GHz were measured at a 1 meter test distance ($D = 1\text{m}$) 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. 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.
9. All power schemes were investigated and only the worst case is reported.

Sample Calculations

Determining Spurious Emissions Levels

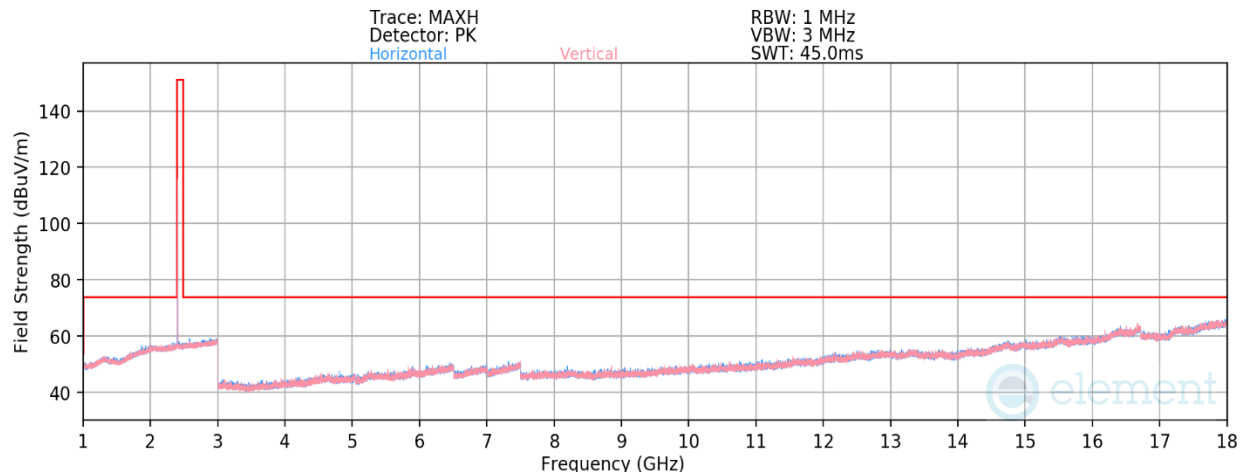
- Field Strength Level $_{[\text{dB}\mu\text{V/m}]} = \text{Analyzer Level}_{[\text{dBm}]} + 107 + \text{AFCL}_{[\text{dB/m}]}$
- $\text{AFCL}_{[\text{dB/m}]} = \text{Antenna Factor}_{[\text{dB/m}]} + \text{Cable Loss}_{[\text{dB}]} - \text{Preamplifier Gain}_{[\text{dB}]}$
- $\text{Margin}_{[\text{dB}]}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

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.4 to 7.7.6 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.7.1 Antenna WF8 Radiated Spurious Emissions – Above 1GHz



Plot 7-52. Radiated Spurious Emissions 1-18GHz Antenna WF8 (802.15.4 ePA – Ch. 11)

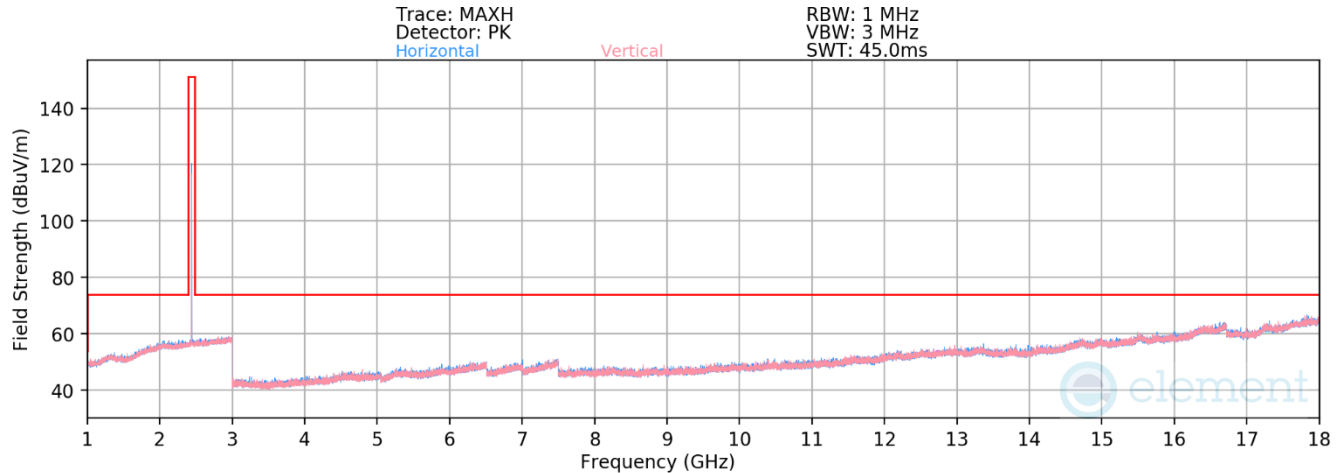
Mode: 802.15.4
Data Rate: 250 Kbps
Power Scheme: ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2405MHz
Channel: 11

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]
4810.00	Average	V	-	-	-79.26	6.65	34.39	53.98	-19.59
4810.00	Peak	V	-	-	-67.57	6.65	46.08	73.98	-27.90
12025.00	Average	H	-	-	-81.96	16.94	41.98	53.98	-12.00
12025.00	Peak	H	-	-	-70.43	16.94	53.51	73.98	-20.47

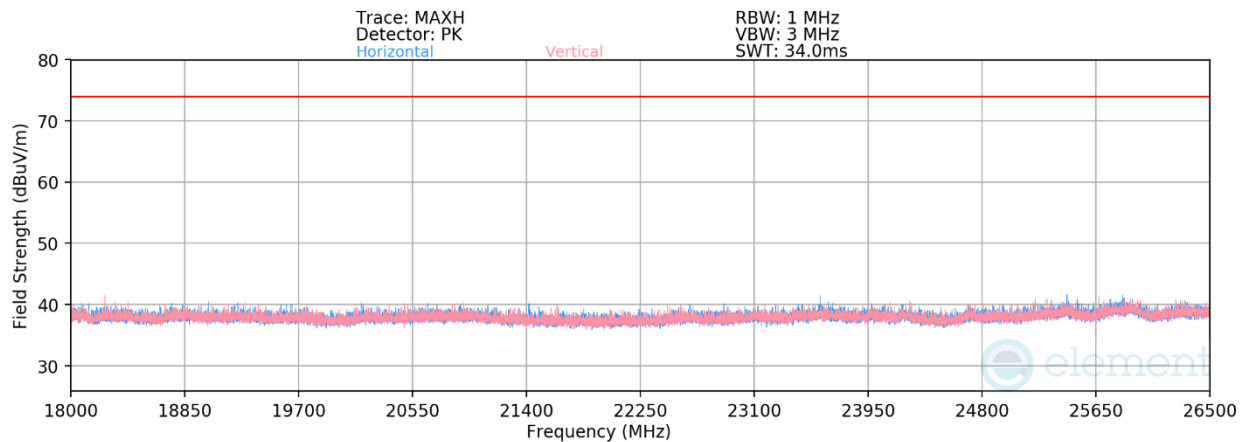
Table 7-15. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-53. Radiated Spurious Emissions 1-18GHz Antenna WF8 (802.15.4 ePA – Ch. 18)



Plot 7-54. Radiated Spurious Emissions Above 18GHz Antenna WF8 (802.15.4 ePA – Ch. 18)

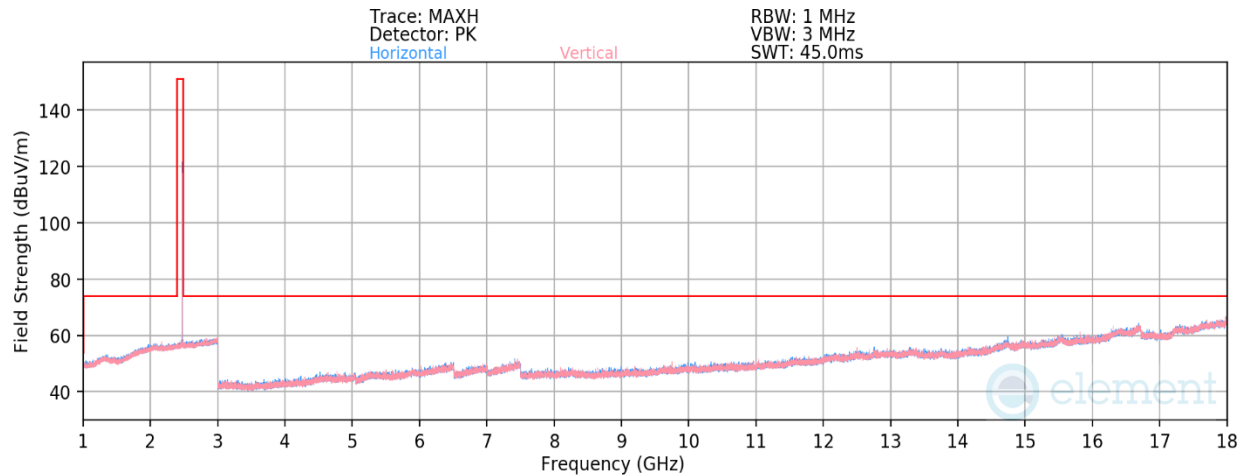
Mode:	802.15.4
Data Rate:	250 Kbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2440MHz
Channel:	18

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]
4880.00	Average	H	-	-	-79.30	7.17	34.87	53.98	-19.11
4880.00	Peak	H	-	-	-67.05	7.17	47.12	73.98	-26.86
7320.00	Average	H	-	-	-78.64	11.41	39.77	53.98	-14.21
7320.00	Peak	H	-	-	-67.55	11.41	50.86	73.98	-23.12
12200.00	Average	H	-	-	-82.01	17.77	42.76	53.98	-11.22
12200.00	Peak	H	-	-	-71.34	17.77	53.43	73.98	-20.55

Table 7-16. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-55. Radiated Spurious Emissions 1-18GHz Antenna WF8 (802.15.4 ePA – Ch. 25)

Mode: 802.15.4
Data Rate: 250 Kbps
Power Scheme: ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2475MHz
Channel: 25

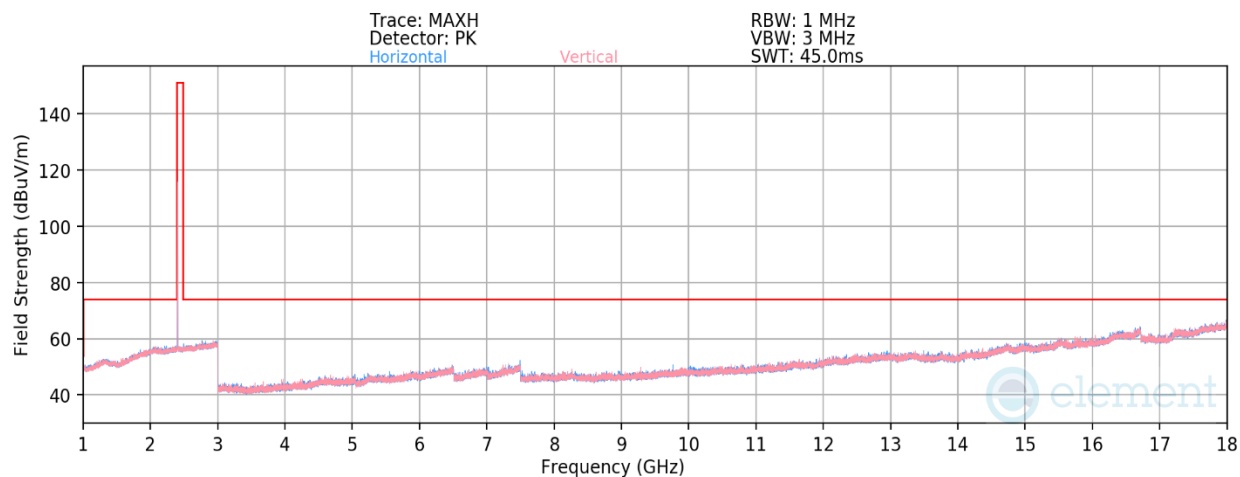
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4950.00	Average	V	-	-	-79.49	7.24	34.75	53.98	-19.23
4950.00	Peak	V	-	-	-68.34	7.24	45.90	73.98	-28.08
7425.00	Average	H	-	-	-78.62	10.88	39.26	53.98	-14.72
7425.00	Peak	H	-	-	-67.58	10.88	50.30	73.98	-23.68
12375.00	Average	H	-	-	-82.06	17.39	42.33	53.98	-11.65
12375.00	Peak	H	-	-	-70.91	17.39	53.48	73.98	-20.50

Table 7-17. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7.2 Antenna WF7 Radiated Spurious Emissions – Above 1GHz



Plot 7-56. Radiated Spurious Emissions 1-18GHz Antenna WF7 (802.15.4 ePA – Ch. 11)

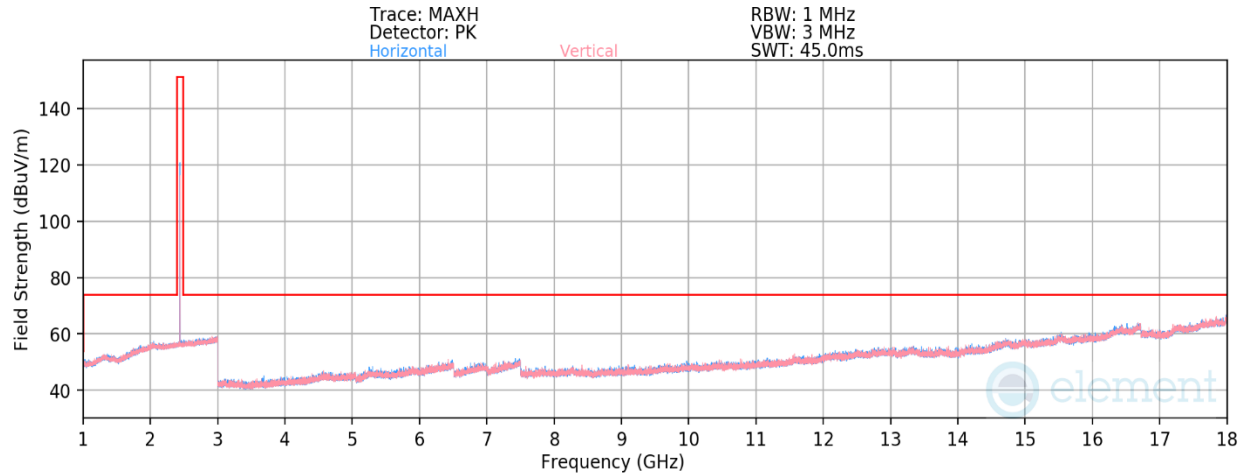
Mode:	802.15.4
Data Rate:	250 Kbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2405MHz
Channel:	11

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]
4810.00	Average	V	-	-	-78.92	6.65	34.73	53.98	-19.25
4810.00	Peak	V	-	-	-67.63	6.65	46.02	73.98	-27.96
12025.00	Average	V	-	-	-82.16	16.94	41.78	53.98	-12.20
12025.00	Peak	V	-	-	-70.43	16.94	53.51	73.98	-20.47

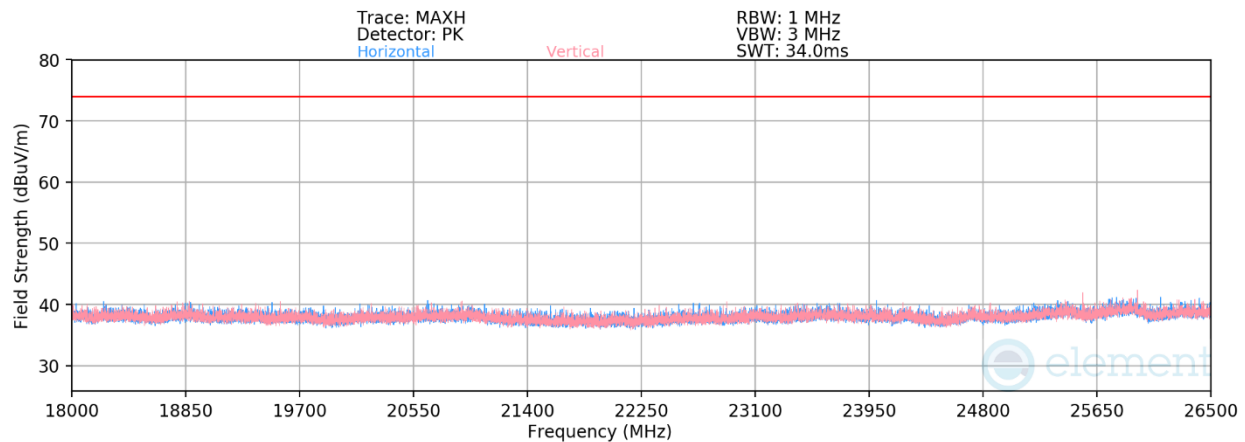
Table 7-18. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-57. Radiated Spurious Emissions 1-18GHz Antenna WF7 (802.15.4 ePA – Ch. 18)



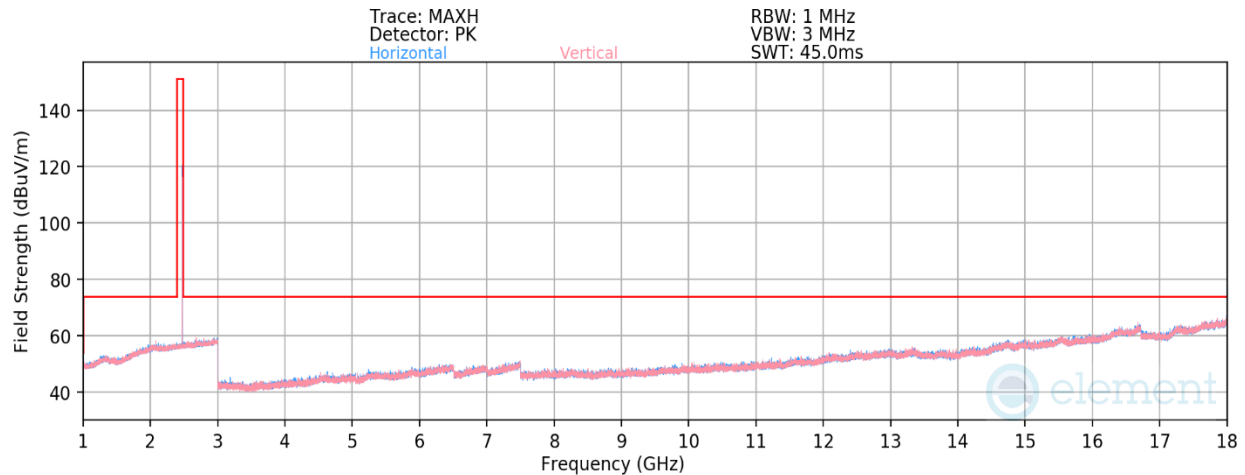
Plot 7-58. Radiated Spurious Emissions Above 18GHz Antenna WF7 (802.15.4 ePA – Ch. 18)

Mode:	802.15.4
Data Rate:	250 Kbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2440MHz
Channel:	18

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]
4880.00	Average	V	-	-	-79.46	7.22	34.76	53.98	-19.22
4880.00	Peak	V	-	-	-68.05	7.22	46.18	73.98	-27.80
7320.00	Average	H	-	-	-79.48	11.41	38.93	53.98	-15.05
7320.00	Peak	H	-	-	-67.92	11.41	50.49	73.98	-23.49
12200.00	Average	H	-	-	-81.26	17.77	43.51	53.98	-10.47
12200.00	Peak	H	-	-	-71.02	17.77	53.75	73.98	-20.23

Table 7-19. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-59. Radiated Spurious Emissions 1-18GHz Antenna WF7 (802.15.4 ePA – Ch. 25)

Mode: 802.15.4
Data Rate: 250 Kbps
Power Scheme ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2475MHz
Channel: 25

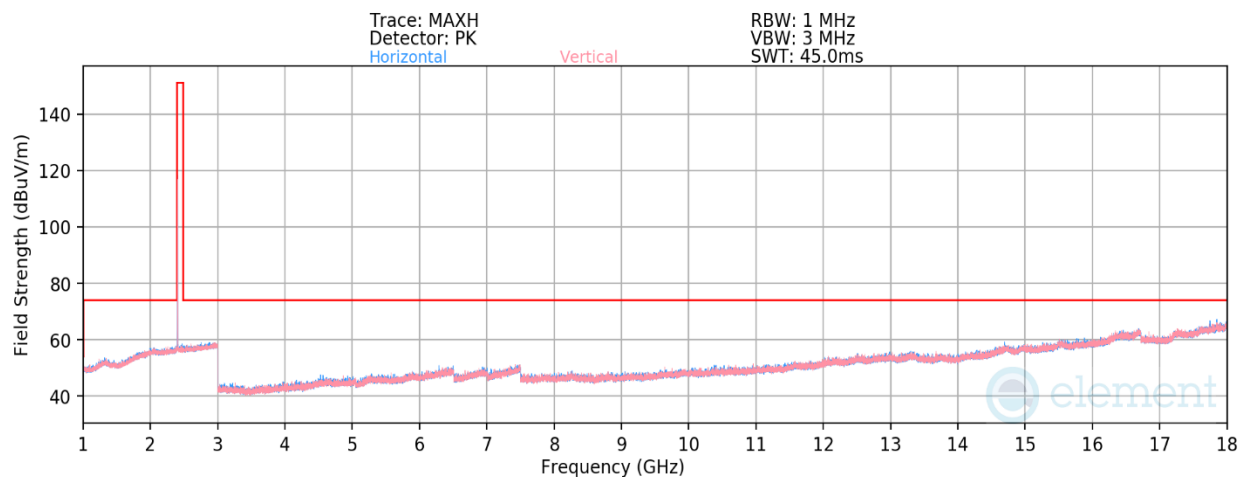
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4950.00	Average	V	-	-	-79.34	7.24	34.90	53.98	-19.08
4950.00	Peak	V	-	-	-68.26	7.24	45.97	73.98	-28.01
7425.00	Average	H	-	-	-78.85	10.88	39.03	53.98	-14.95
7425.00	Peak	H	-	-	-67.36	10.88	50.52	73.98	-23.46
12375.00	Average	V	-	-	-81.28	17.39	43.11	53.98	-10.87
12375.00	Peak	V	-	-	-70.93	17.39	53.46	73.98	-20.52

Table 7-20. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7.3 Antenna WF9 Radiated Spurious Emissions – Above 1GHz



Plot 7-60. Radiated Spurious Emissions 1-18GHz Antenna WF9 (802.15.4 ePA – Ch. 11)

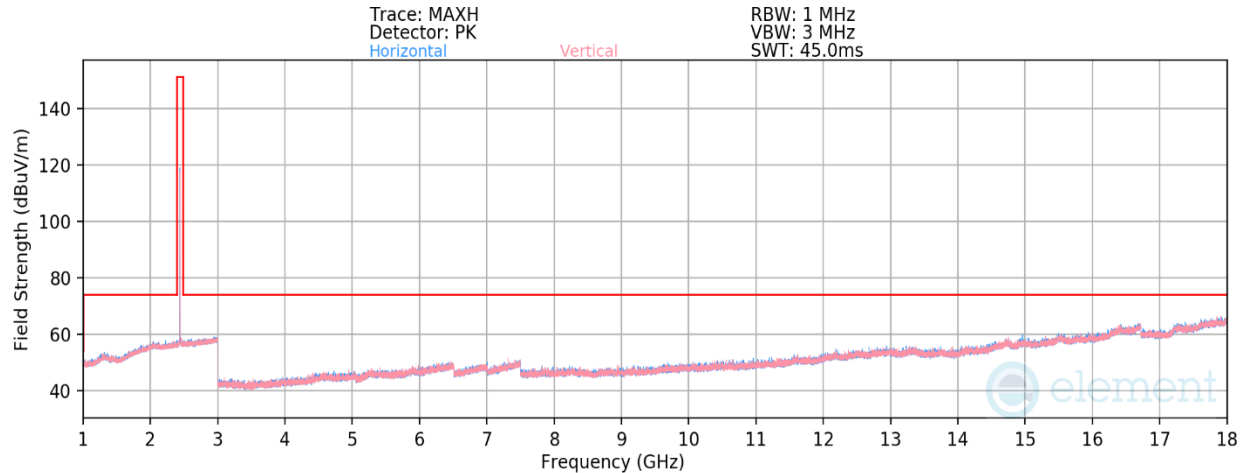
Mode:	802.15.4
Data Rate:	250 Kbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2405MHz
Channel:	11

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]
4810.00	Average	H	-	-	-79.13	6.54	34.41	53.98	-19.57
4810.00	Peak	H	-	-	-68.02	6.54	45.52	73.98	-28.46
12025.00	Average	V	-	-	-81.95	16.94	41.99	53.98	-11.99
12025.00	Peak	V	-	-	-71.02	16.94	52.92	73.98	-21.06

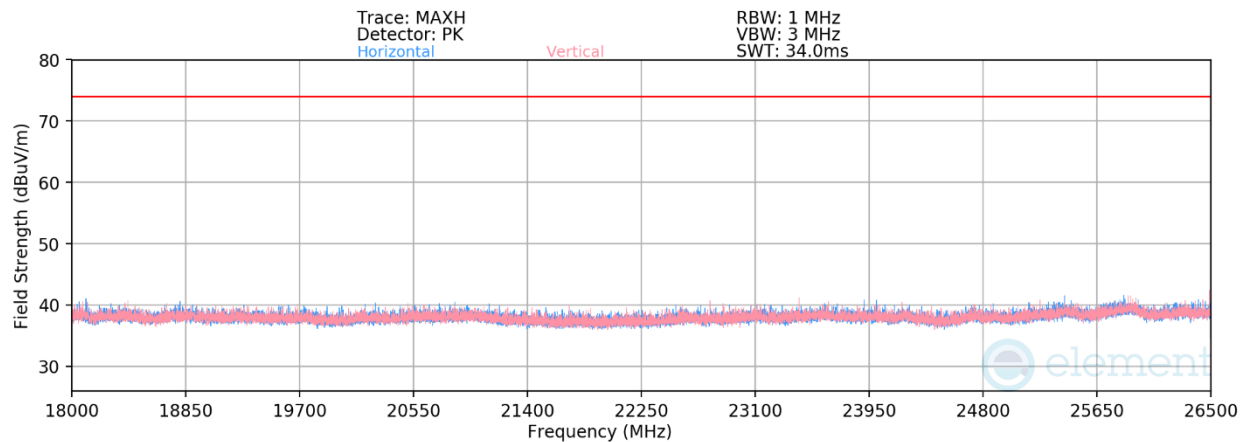
Table 7-21. Radiated Spurious Emission Measurements Antenna WF9

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-61. Radiated Spurious Emissions 1-18GHz Antenna WF9 (802.15.4 ePA – Ch. 18)



Plot 7-62. Radiated Spurious Emissions Above 18GHz Antenna WF9 (802.15.4 ePA – Ch. 18)

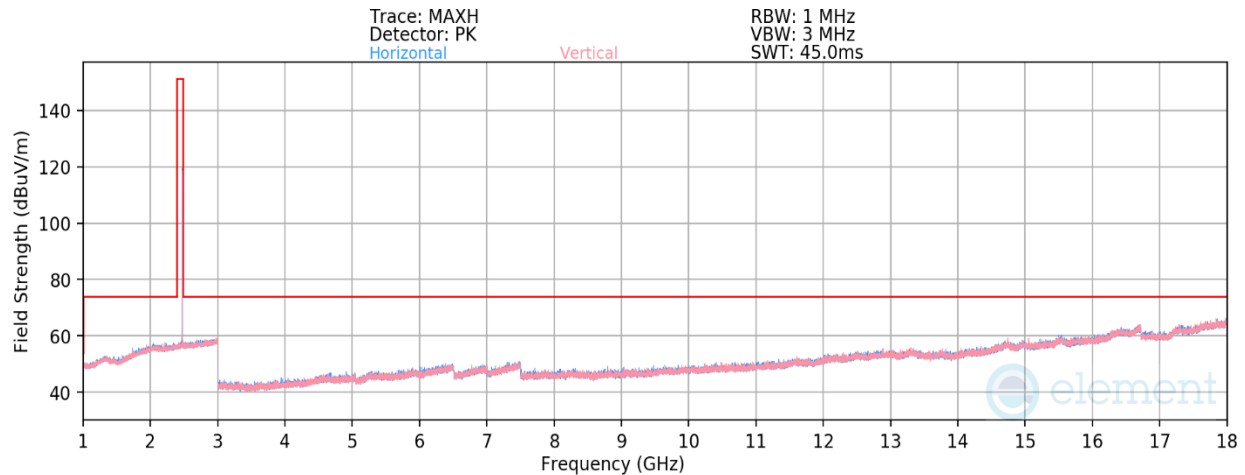
Mode:	802.15.4
Data Rate:	250 Kbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2440MHz
Channel:	18

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]
4880.00	Average	V	-	-	-79.19	7.02	34.83	53.98	-19.15
4880.00	Peak	V	-	-	-67.68	7.02	46.34	73.98	-27.64
7320.00	Average	H	-	-	-79.69	11.41	38.72	53.98	-15.26
7320.00	Peak	H	-	-	-67.70	11.41	50.71	73.98	-23.27
12200.00	Average	H	-	-	-81.93	17.77	42.84	53.98	-11.14
12200.00	Peak	H	-	-	-70.33	17.77	54.45	73.98	-19.53

Table 7-22. Radiated Spurious Emission Measurements Antenna WF9

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-63. Radiated Spurious Emissions 1-18GHz Antenna WF9 (802.15.4 ePA – Ch. 25)

Mode: 802.15.4
Data Rate: 250 Kbps
Power Scheme: ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2475MHz
Channel: 25

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]
4950.00	Average	V	-	-	-79.46	7.18	34.72	53.98	-19.26
4950.00	Peak	V	-	-	-67.77	7.18	46.41	73.98	-27.57
7425.00	Average	H	-	-	-79.11	10.88	38.76	53.98	-15.22
7425.00	Peak	H	-	-	-67.69	10.88	50.19	73.98	-23.79
12375.00	Average	V	-	-	-82.15	17.39	42.24	53.98	-11.74
12375.00	Peak	V	-	-	-70.86	17.39	53.53	73.98	-20.45

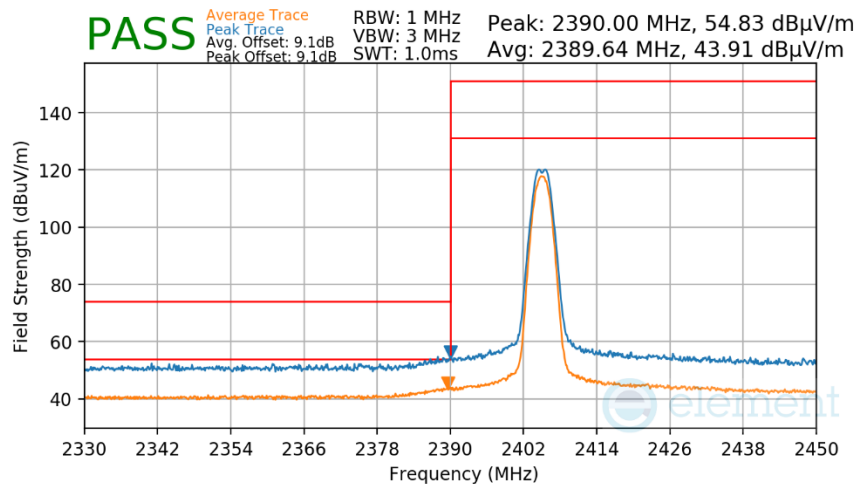
Table 7-23. Radiated Spurious Emission Measurements Antenna WF9

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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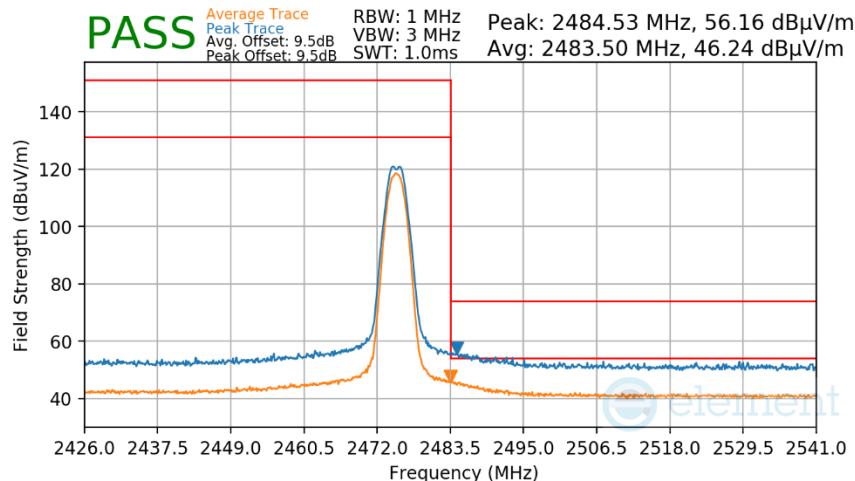
7.7.4 Antenna WF8 Radiated Restricted Band Edge Measurements

Mode:	802.15.4
Data Rate	250 Kbps
Power Scheme	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2405MHz
Channel:	11



Plot 7-64. Radiated Restricted Lower Band Edge Measurement Antenna WF8

Mode:	802.15.4
Data Rate	250 Kbps
Power Scheme	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2475MHz
Channel:	25

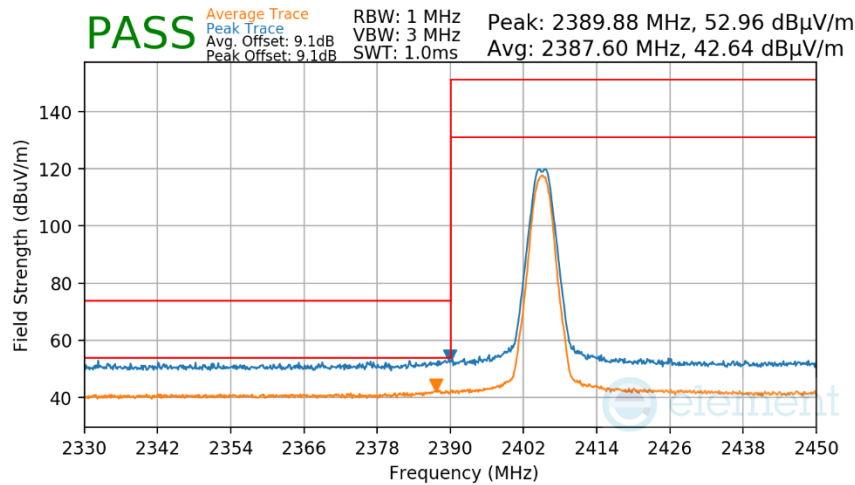


Plot 7-65. Radiated Restricted Upper Band Edge Measurement Antenna WF8

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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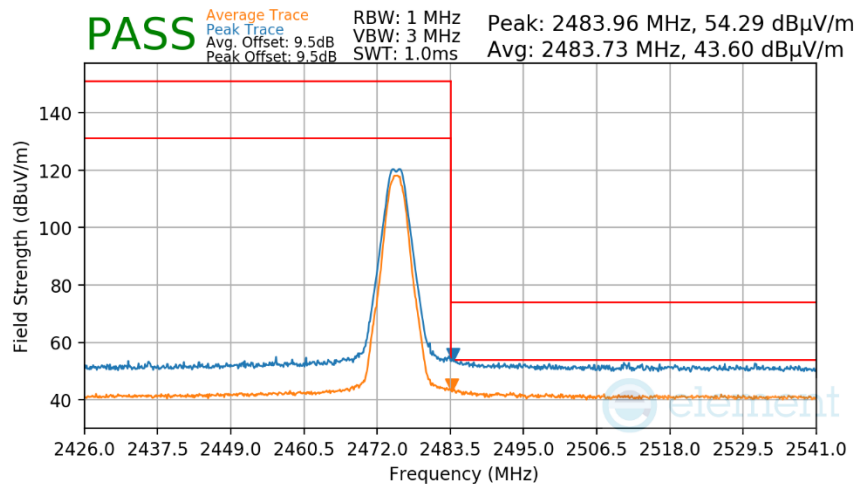
7.7.5 Antenna WF7 Radiated Restricted Band Edge Measurements

Mode:	802.15.4
Data Rate	250 Kbps
Power Scheme	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2405MHz
Channel:	11



Plot 7-66. Radiated Restricted Lower Band Edge Measurement Antenna WF7

Mode:	802.15.4
Data Rate	250 Kbps
Power Scheme	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2475MHz
Channel:	25

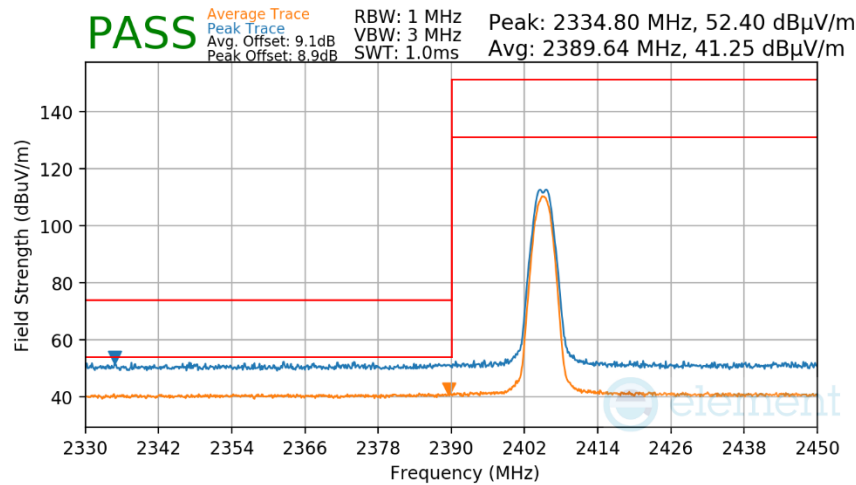


Plot 7-67. Radiated Restricted Upper Band Edge Measurement Antenna WF7

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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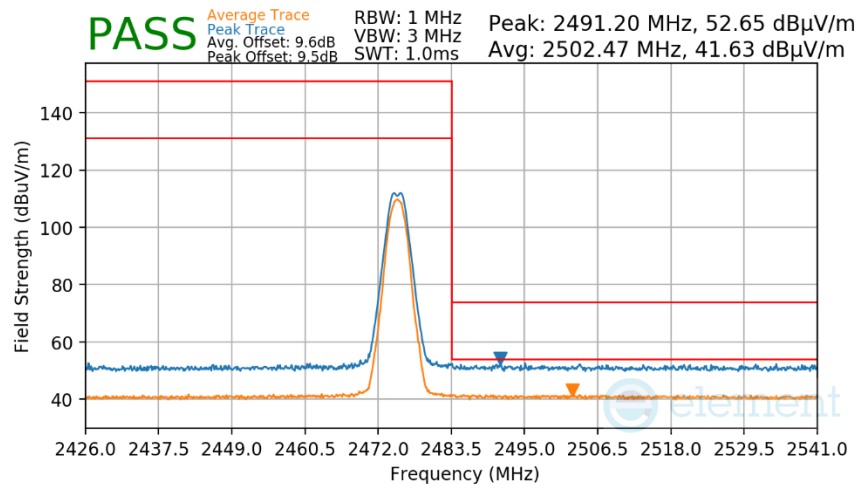
7.7.6 Antenna WF9 Radiated Restricted Band Edge Measurements

Mode:	802.15.4
Data Rate	250 Kbps
Power Scheme	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2405MHz
Channel:	11



Plot 7-68. Radiated Restricted Lower Band Edge Measurement Antenna WF9

Mode:	802.15.4
Data Rate	250 Kbps
Power Scheme	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2475MHz
Channel:	25



Plot 7-69. Radiated Restricted Upper Band Edge Measurement Antenna WF9

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7.8 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 7-24 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 7-24. 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

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Test Setup

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

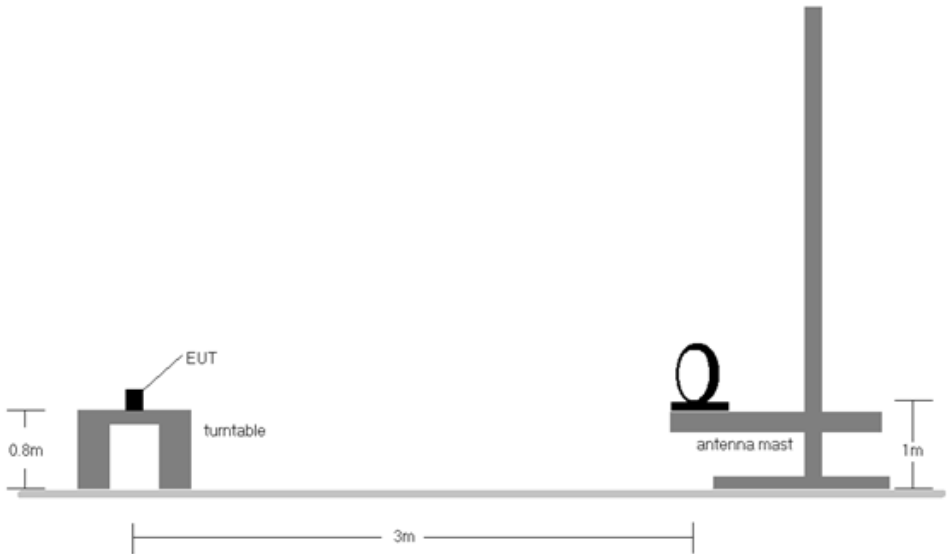


Figure 7-7. Radiated Test Setup < 30Mhz

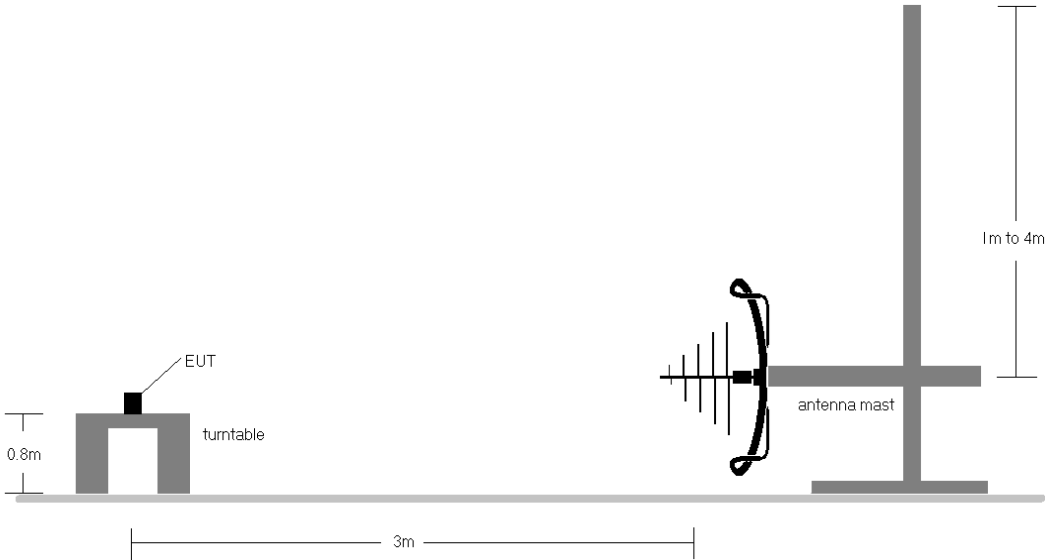


Figure 7-8. Radiated Test Setup < 1GHz

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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 7-24.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through two orthogonal planes. For below 30MHz measurements, the loop antenna was positioned in three 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 worst channel, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. 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.
8. 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
9. No spurious emissions were detected within 20dB of the limit below 30MHz.
10. All antennas and power schemes have been tested and only the worst case configuration is reported.

Sample Calculations

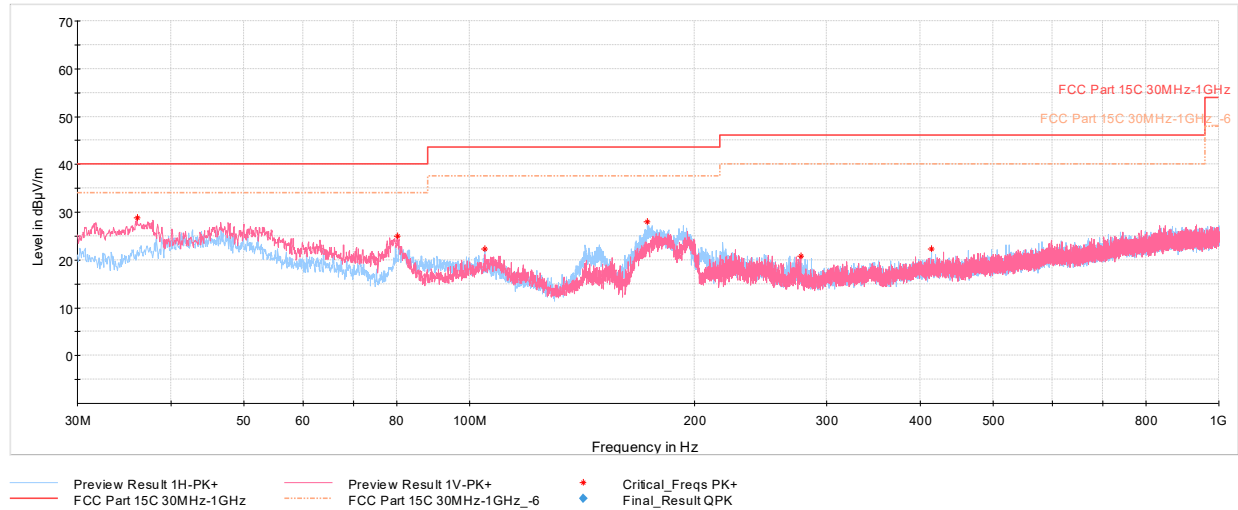
Determining Spurious Emissions Levels

- 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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Antenna WF8 Radiated Spurious Emissions – Below 1GHz



Plot 7-70. Radiated Spurious Emissions 30MHz-1GHz Antenna WF8 (ePA - Ch.18, with AC/DC Adapter)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Limit [dBμV/m]	Margin [dB]
36.06	Max Peak	V	100	330	-60.45	-17.80	40.00	-11.25
80.20	Max Peak	V	100	0	-59.25	-22.80	40.00	-15.05
104.84	Max Peak	H	100	171	-66.53	-18.10	43.52	-21.15
172.88	Max Peak	H	100	220	-58.76	-20.20	43.52	-15.48
276.72	Max Peak	V	100	98	-70.08	-16.10	46.02	-25.20
413.78	Max Peak	H	300	174	-72.28	-12.40	46.02	-23.70

Table 7-25. Radiated Spurious Emission Measurements 30MHz-1GHz Antenna WF8 (ePA - Ch.18, with AC/DC Adapter)

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7.9 AC Line Conducted Emission Measurements

§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 (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-26. 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.

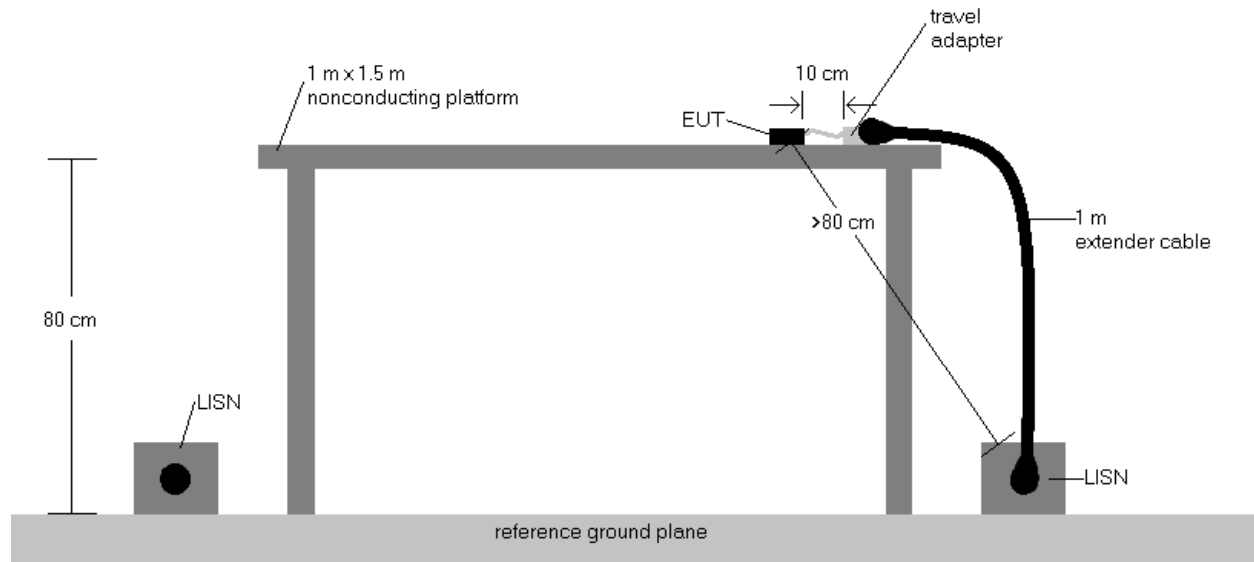
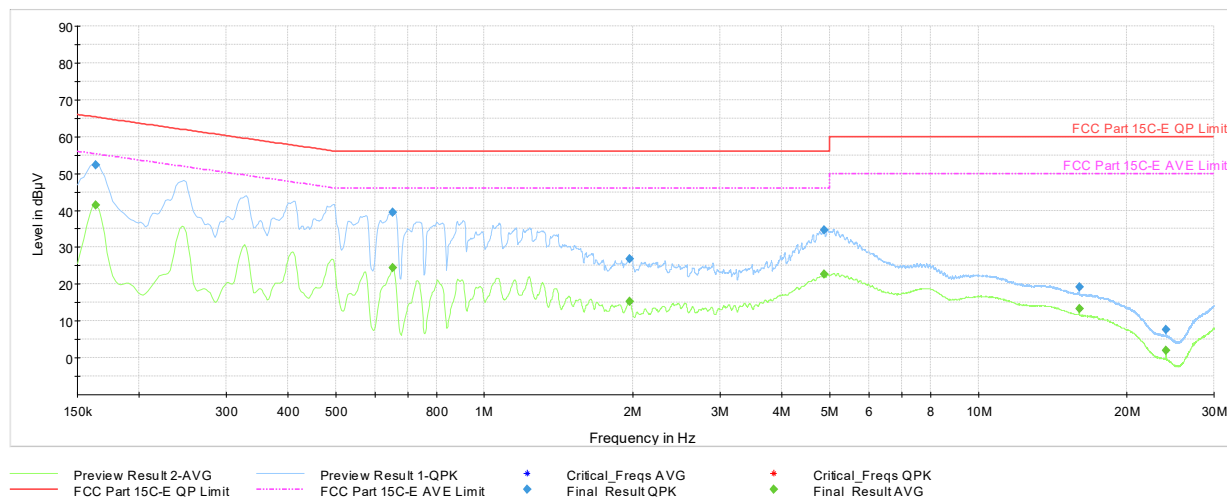


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated for AC line conducted spurious emissions and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. The following configuration was investigated and 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
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plot are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

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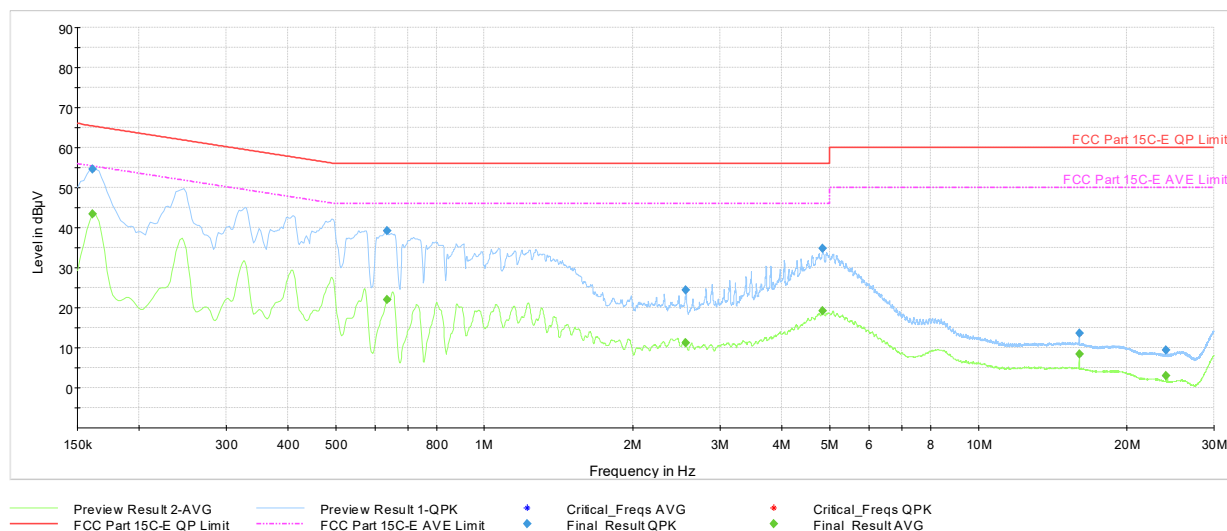
Plot 7-71. AC Line Conducted Emission with 802.15.4 Antenna WF8 (L1, Ch.18 - ePA, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	—	41.32	55.28	-13.96	L1	GND
0.164	FINAL	52.4	—	65.28	-12.89	L1	GND
0.652	FINAL	—	24.37	46.00	-21.63	L1	GND
0.652	FINAL	39.5	—	56.00	-16.54	L1	GND
1.968	FINAL	—	15.18	46.00	-30.82	L1	GND
1.968	FINAL	26.7	—	56.00	-29.26	L1	GND
4.868	FINAL	34.7	—	56.00	-21.28	L1	GND
4.868	FINAL	—	22.71	46.00	-23.29	L1	GND
15.999	FINAL	19.2	—	60.00	-40.80	L1	GND
15.999	FINAL	—	13.42	50.00	-36.58	L1	GND
23.996	FINAL	—	1.90	50.00	-48.10	L1	GND
23.996	FINAL	7.7	—	60.00	-52.31	L1	GND

Table 7-27. AC Line Conducted Emission with 802.15.4 Antenna WF8 (L1, Ch.18 - ePA, with AC/DC Adapter)

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Plot 7-72. AC Line Conducted Emission with 802.15.4 Antenna WF8 (N, Ch.18 - ePA, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.161	FINAL	—	43.47	55.40	-11.93	N	GND
0.161	FINAL	54.7	—	65.40	-10.74	N	GND
0.636	FINAL	—	21.99	46.00	-24.01	N	GND
0.636	FINAL	39.3	—	56.00	-16.74	N	GND
2.560	FINAL	—	11.11	46.00	-34.89	N	GND
2.560	FINAL	24.4	—	56.00	-31.62	N	GND
4.839	FINAL	34.8	—	56.00	-21.22	N	GND
4.839	FINAL	—	19.23	46.00	-26.77	N	GND
16.001	FINAL	13.6	—	60.00	-46.41	N	GND
16.001	FINAL	—	8.46	50.00	-41.54	N	GND
24.000	FINAL	—	3.00	50.00	-47.00	N	GND
24.000	FINAL	9.3	—	60.00	-50.70	N	GND

Table 7-28. AC Line Conducted Emission with 802.15.4 Antenna WF8 (N, Ch.18 - ePA, with AC/DC Adapter)

FCC ID: BCGA3360 IC: 579C-A3360		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: BCGA3360 and IC: 579C-A3360** 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.

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