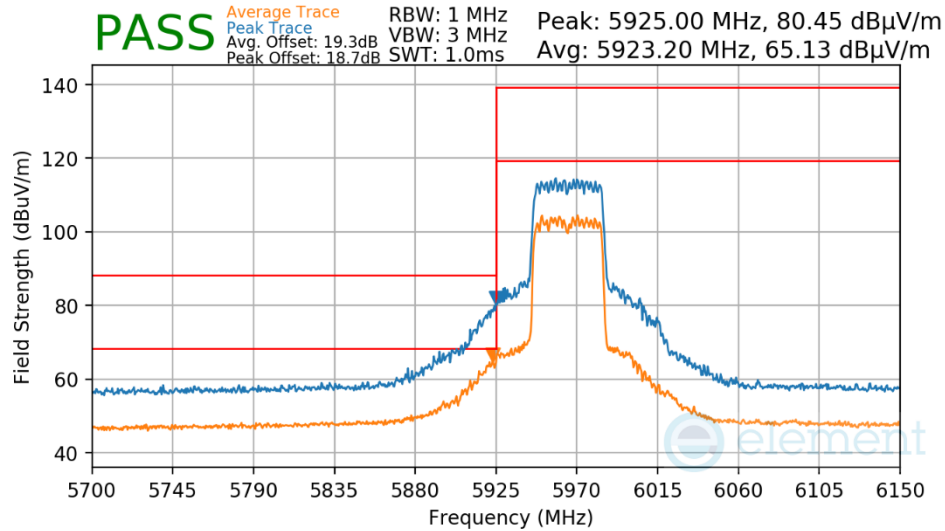
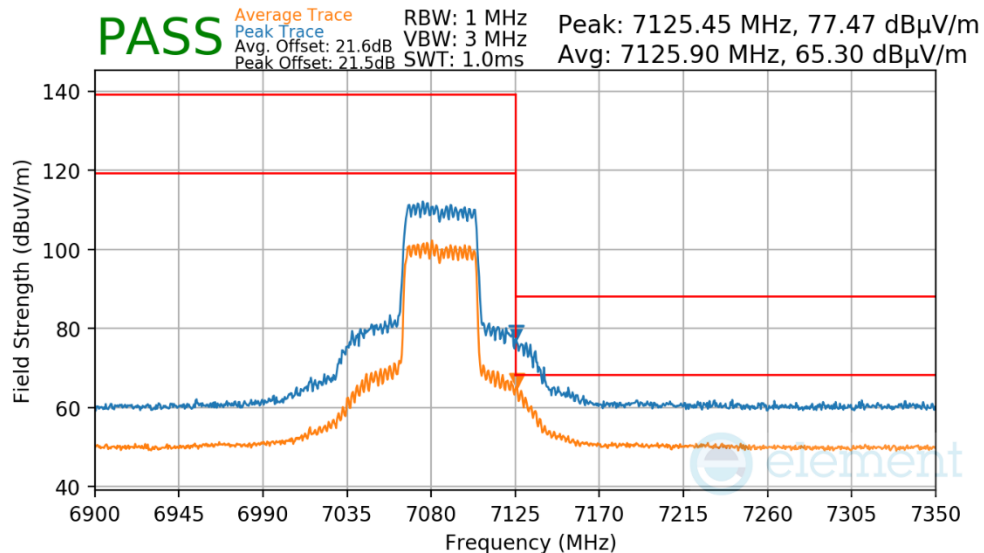


Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5965MHz  
 Channel: 3



**Plot 7-1569. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227

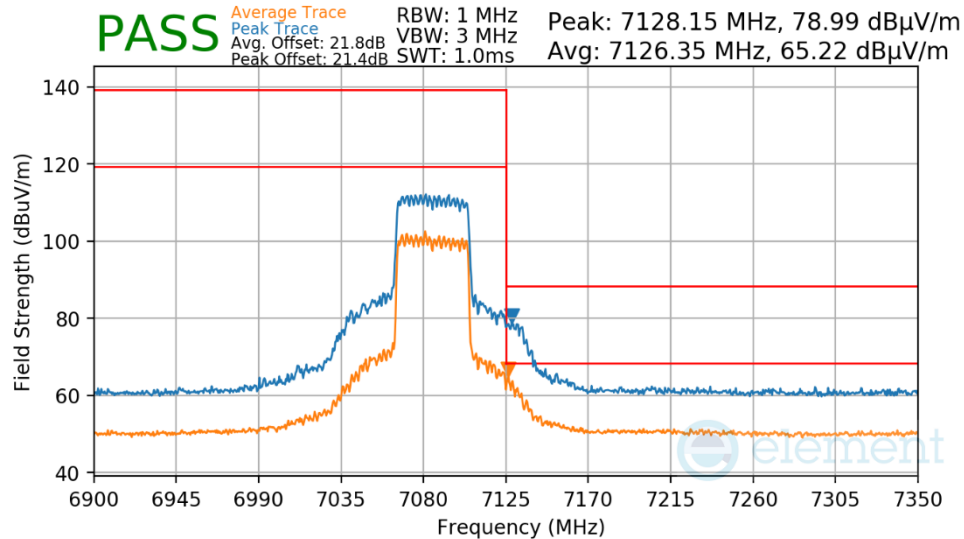


**Plot 7-1570. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-13-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 533 of 552

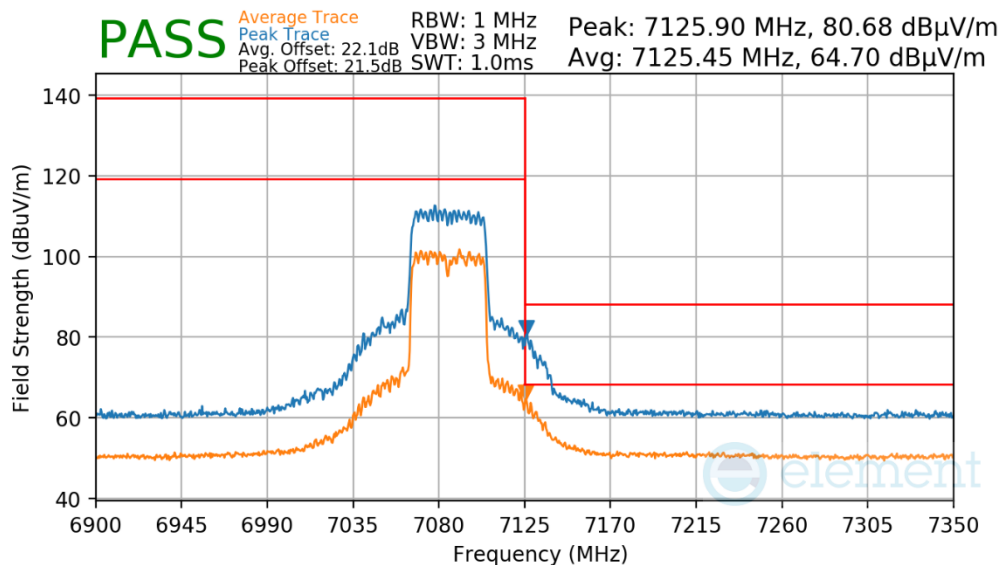
V 10.5 12/15/2021

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227



**Plot 7-1571. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227



**Plot 7-1572. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

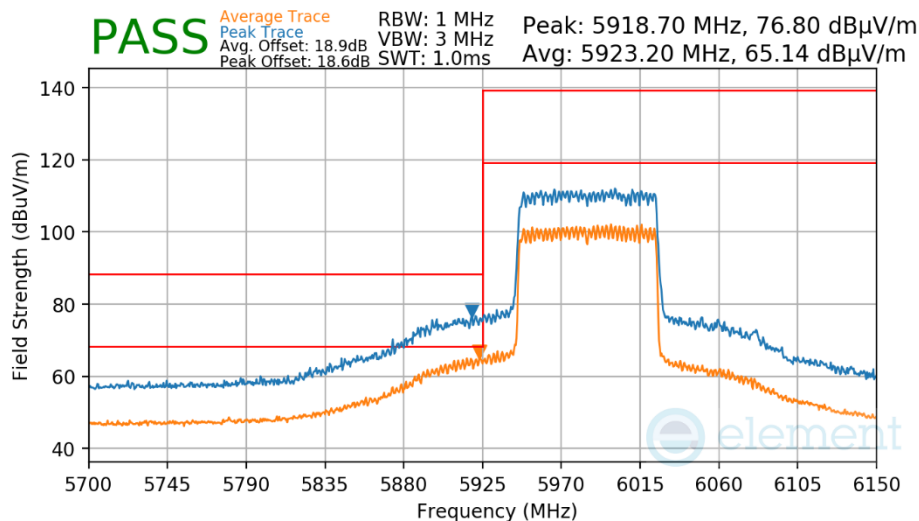
FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-13-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 534 of 552

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## 7.7.24 SDM Diversity Radiated Band Edge Measurements (80MHz BW)

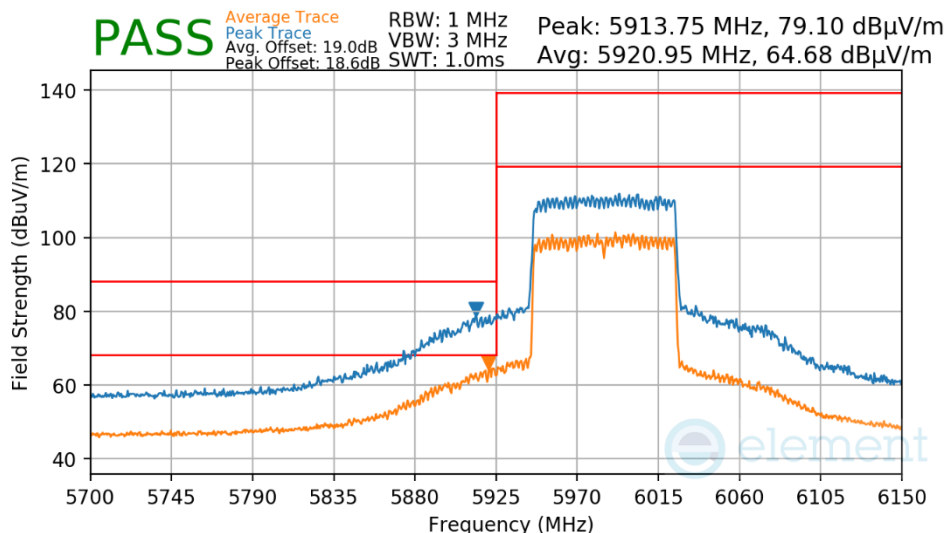
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS2
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7




**Plot 7-1573. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

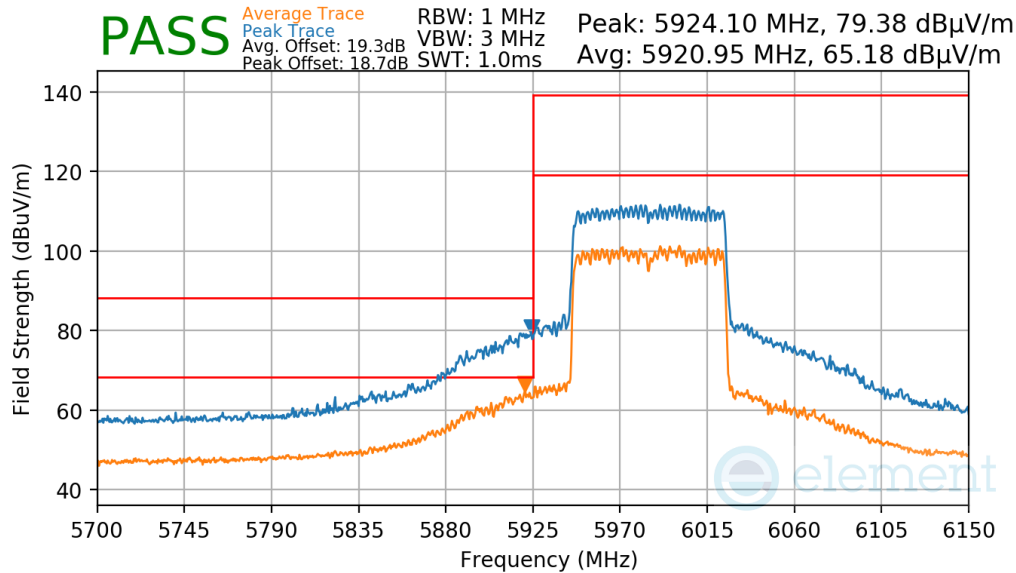


**Plot 7-1574. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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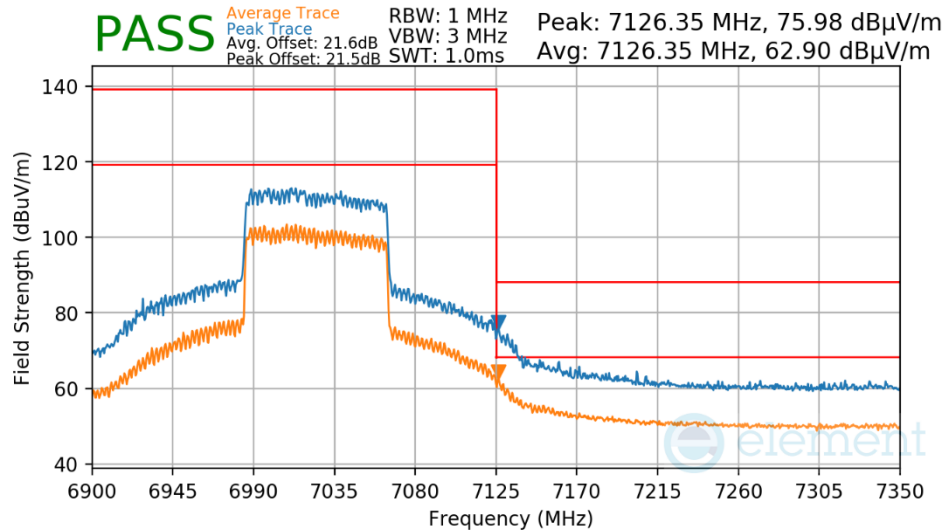
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Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5985MHz  
 Channel: 7



**Plot 7-1575. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215

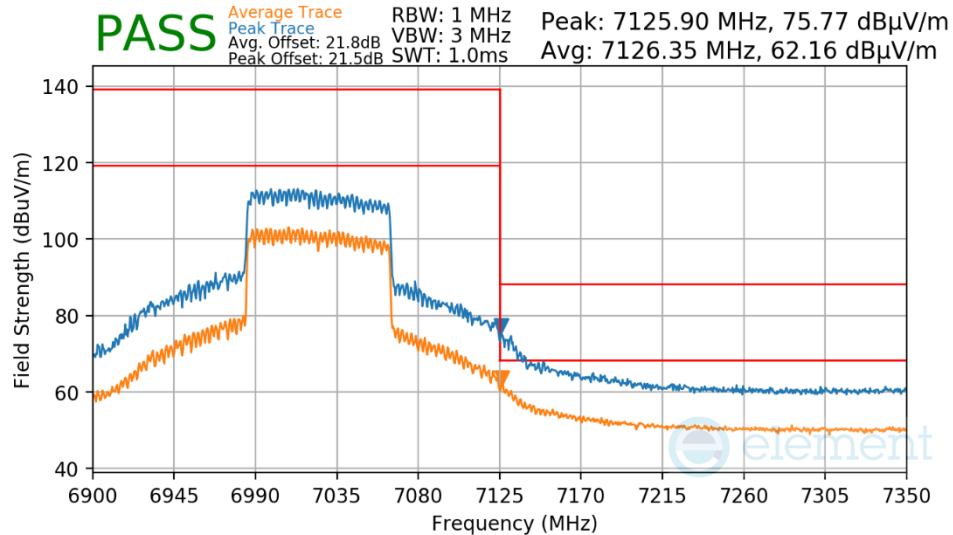


**Plot 7-1576. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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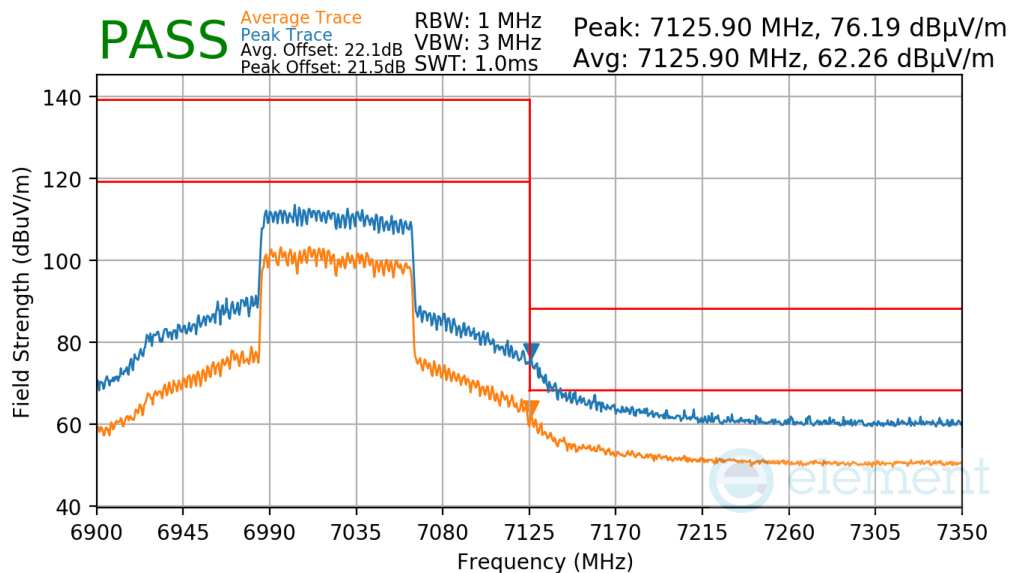
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Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



**Plot 7-1577. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



**Plot 7-1578. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

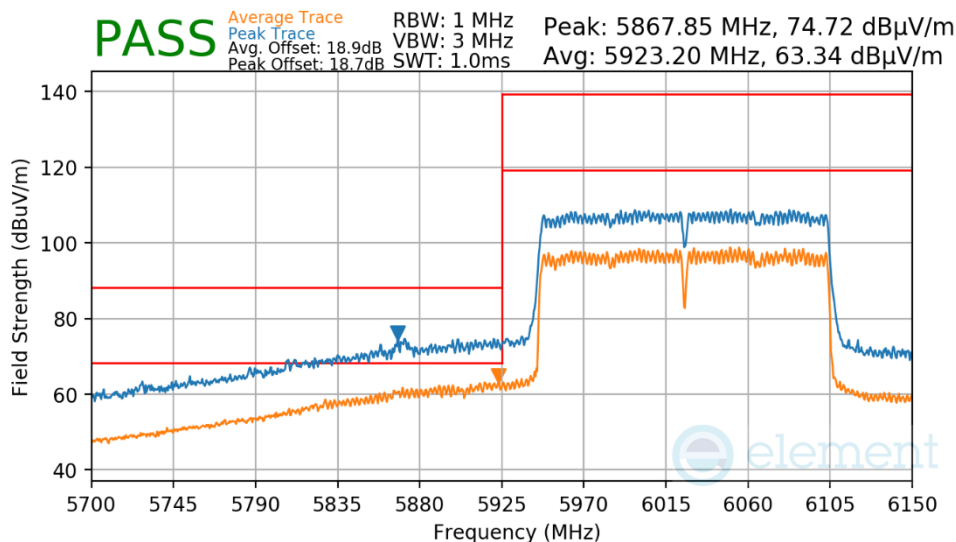
FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-13-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 537 of 552

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## 7.7.25 SDM Diversity Radiated Band Edge Measurements (160MHz BW)

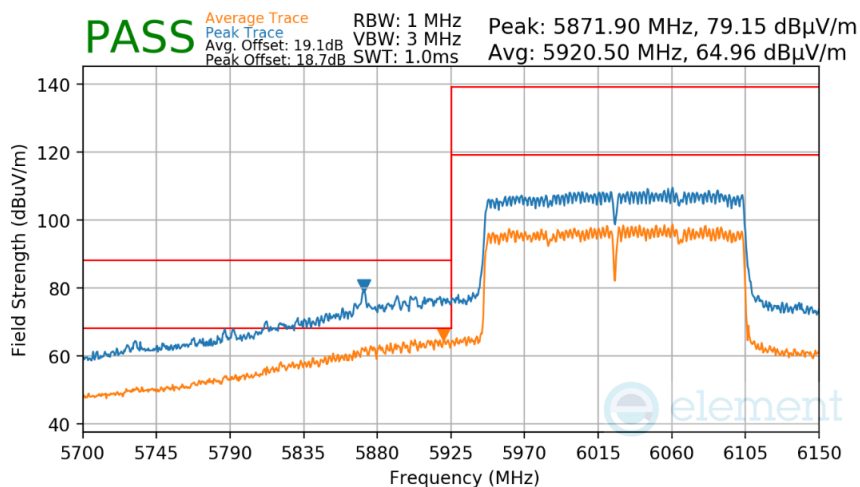
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS2
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



**Plot 7-1579. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

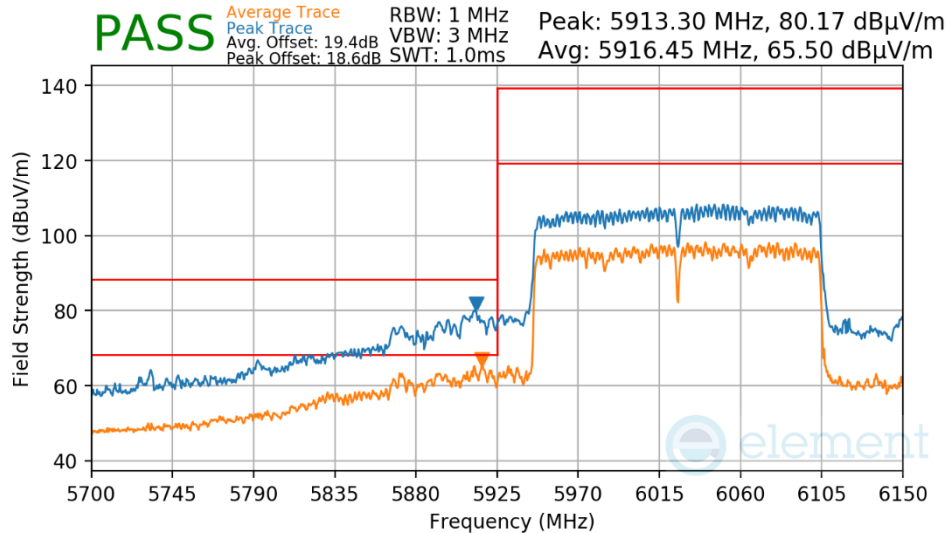


**Plot 7-1580. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-13-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 538 of 552

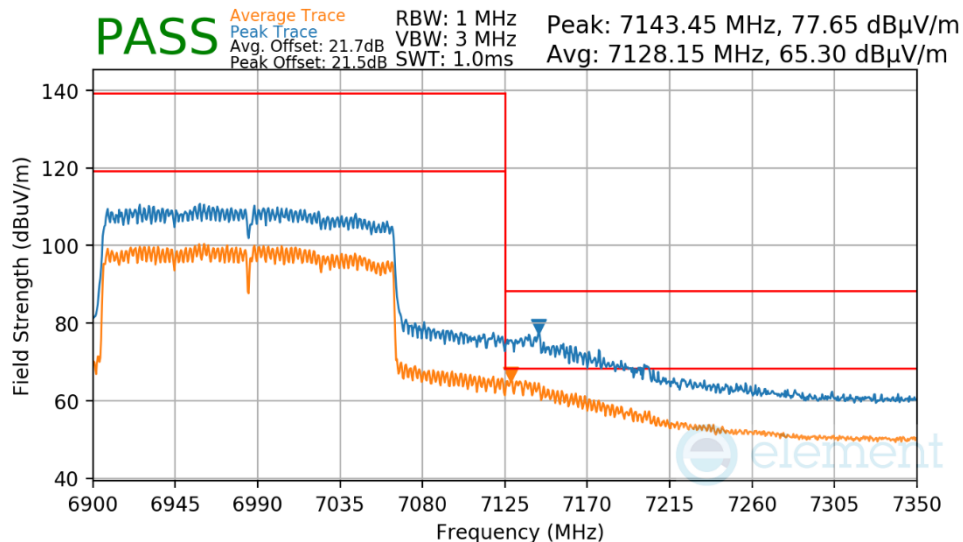
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Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS11  
Distance of Measurements: 3 Meters  
Operating Frequency: 6025MHz  
Channel: 15



**Plot 7-1581. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 6985MHz  
Channel: 207



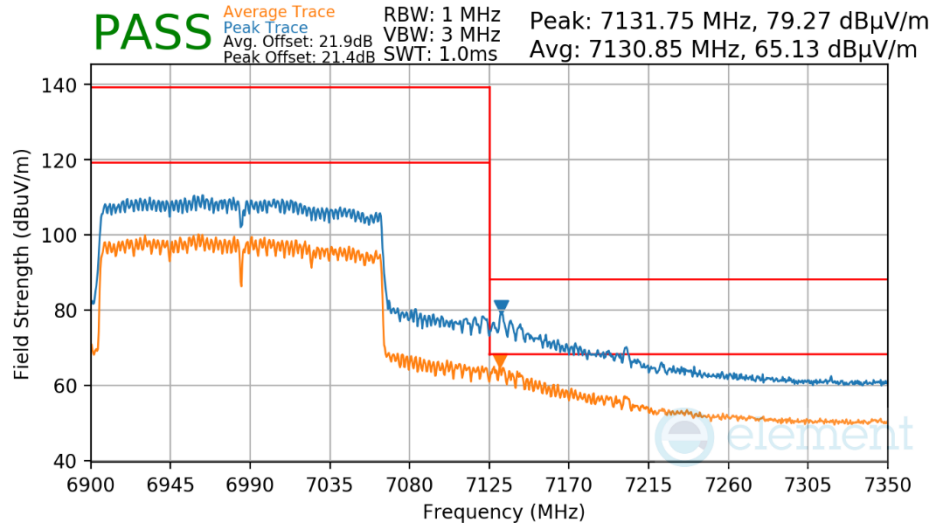
**Plot 7-1582. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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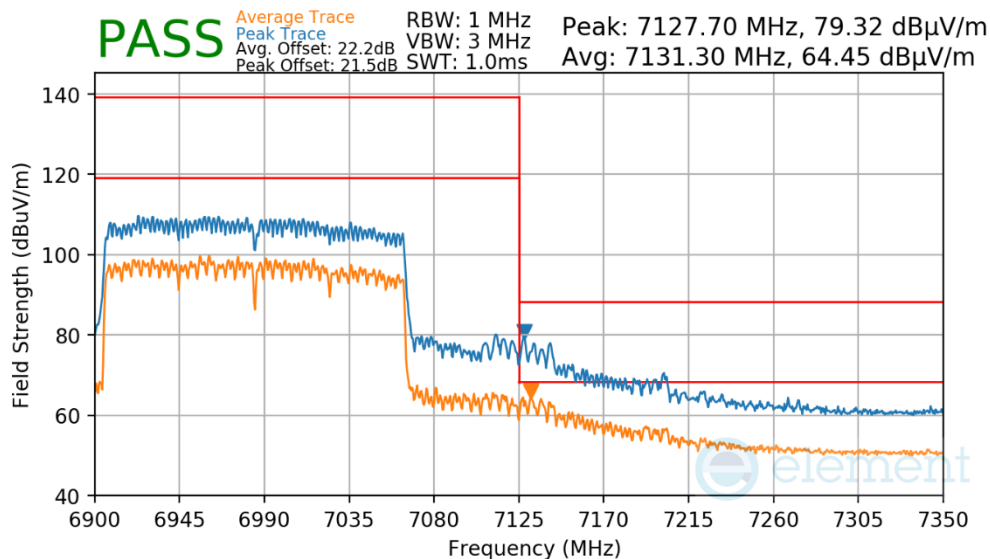


Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-1583. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-1584. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-13-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 540 of 552

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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 7-225 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 7-225. 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

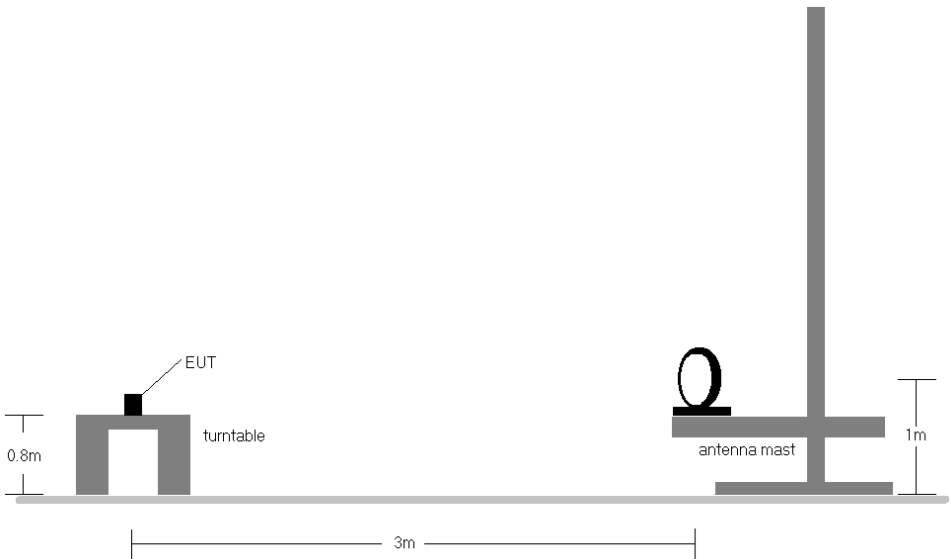
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = quasi-peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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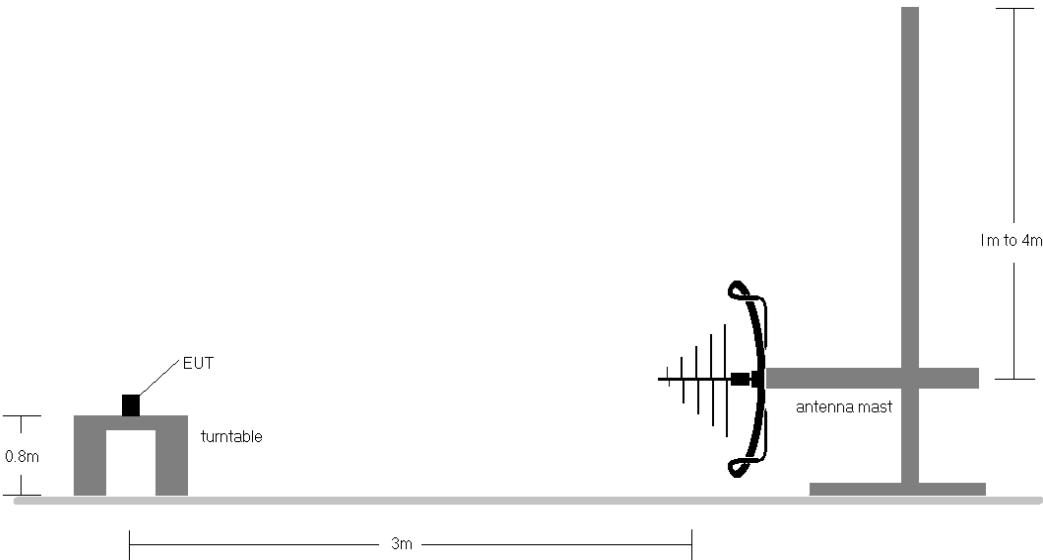
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**Test Setup**

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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<b>Test Report S/N:</b> 1C2311270065-13-R2.BCG	<b>Test Dates:</b> 12/1/2023 - 04/04/2024	<b>EUT Type:</b> Tablet Device	Page 542 of 552

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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 7-225.
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 antenna configurations were investigated and only the worst case is reported.
12. The unit was tested with all possible modes and only the highest emission is reported.

## Sample Calculations

### Determining Spurious Emissions Levels

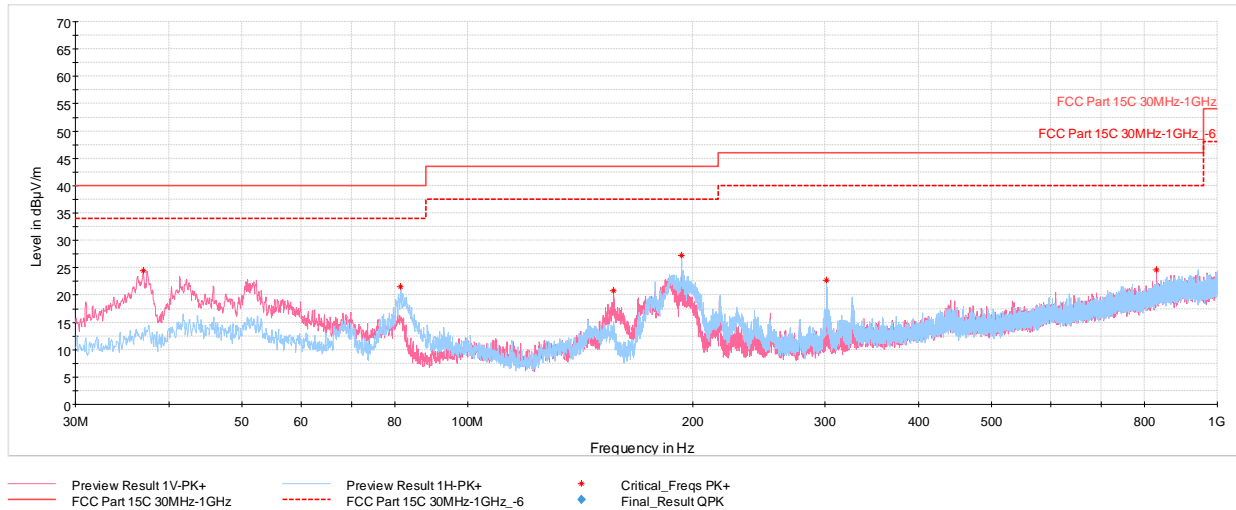
- Field Strength Level  $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamp Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit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

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## 7.8.1 SDM Primary Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



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]
36.94	Max-Peak	V	100	348	-67.22	-15.25	24.53	40.00	-15.47
81.51	Max-Peak	H	200	120	-64.51	-20.90	21.59	40.00	-18.41
156.73	Max-Peak	V	100	323	-66.47	-19.77	20.76	43.52	-22.76
192.96	Max-Peak	H	100	236	-62.65	-17.17	27.18	43.52	-16.34
301.50	Max-Peak	H	100	267	-69.80	-14.54	22.66	46.02	-23.36
829.96	Max-Peak	V	100	263	-78.88	-3.58	24.54	46.02	-21.48

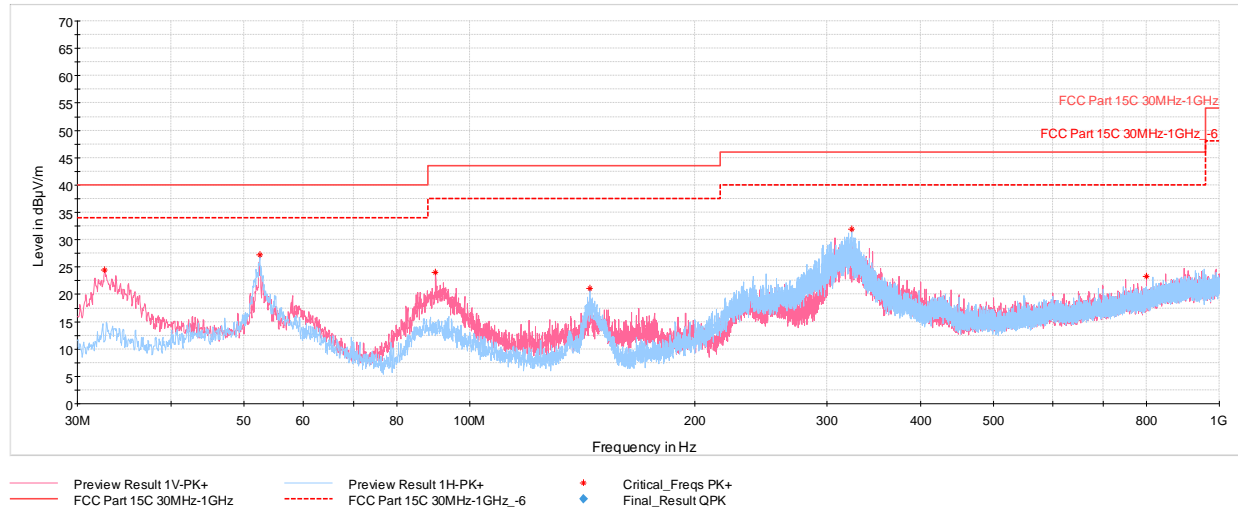
Table 7-226. Radiated Spurious Emissions Measurement below 1GHz SDM Primary, 802.11ax, Ch.1 with Laptop

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## 7.8.2 SDM Diversity Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-1586. Radiated Spurious Emissions below 1GHz SDM Diversity, 802.11ax, Ch.1 with Laptop**

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]
32.62	Max-Peak	V	100	348	-66.60	-16.00	24.40	40.00	-15.60
52.55	Max-Peak	H	200	193	-66.44	-13.28	27.28	40.00	-12.72
90.14	Max-Peak	V	100	194	-64.75	-18.27	23.98	43.52	-19.54
144.80	Max-Peak	H	200	193	-65.30	-20.58	21.12	43.52	-22.40
323.57	Max-Peak	H	100	117	-61.33	-13.72	31.95	46.02	-14.07
799.50	Max-Peak	V	200	189	-79.02	-4.63	23.35	46.02	-22.67

**Table 7-227. Radiated Spurious Emissions Measurement below 1GHz SDM Diversity, 802.11ax, Ch.1 with Laptop**

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## 7.9 AC Line-Conducted Emissions Measurement

**§15.407; 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 7-228. 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

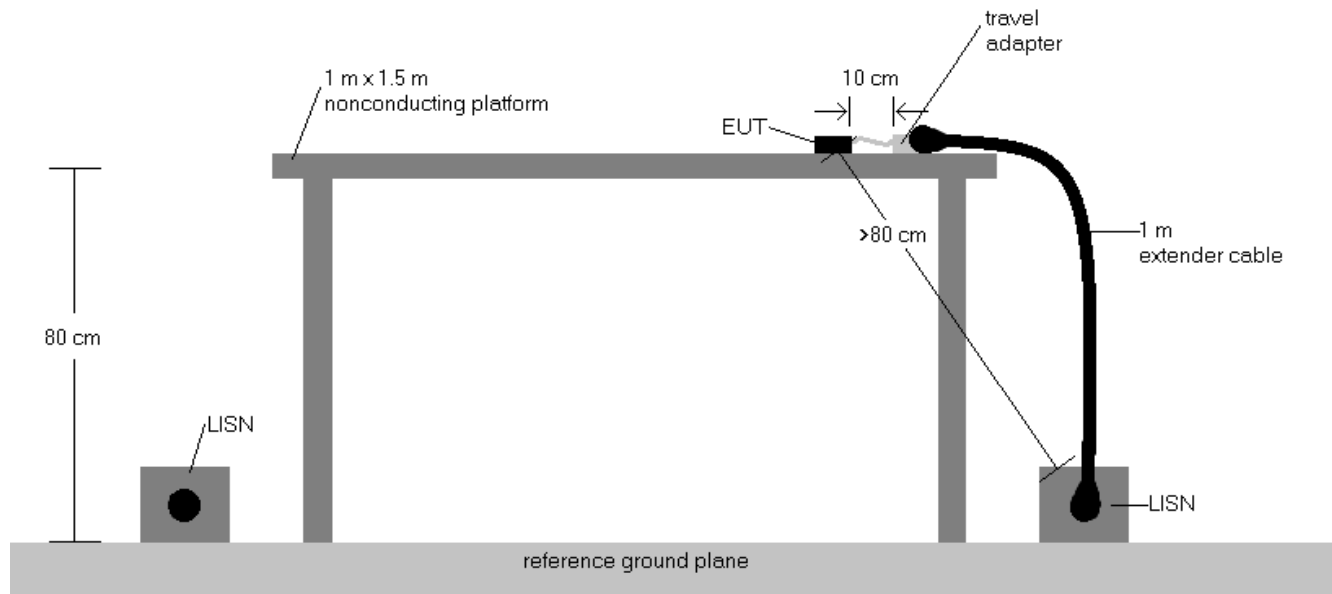
1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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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**

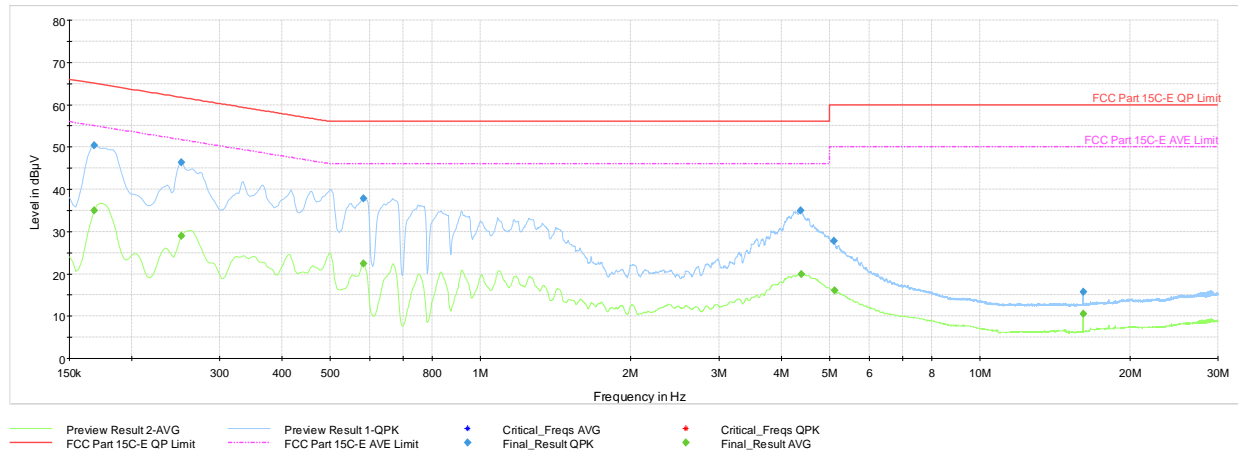
## Test Notes

1. All modes of operation were investigated 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 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 15.207 and RSS-Gen (8.8).
4.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
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.
9. The unit was tested with all possible modes and only the highest emission is reported.

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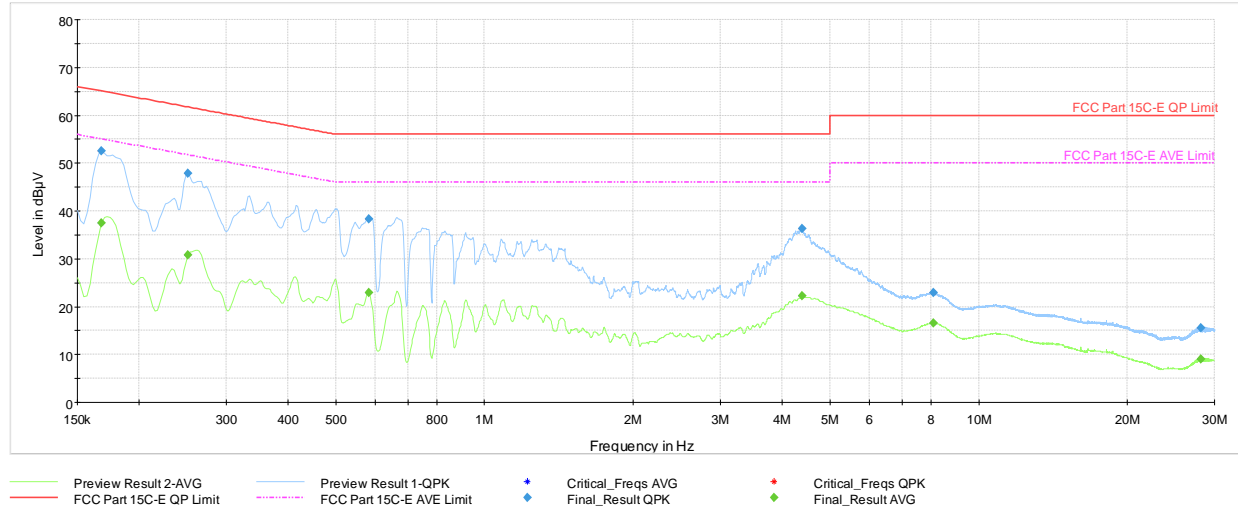


Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.191	FINAL	—	37.10	54.02	-16.91	L1	GND
0.191	FINAL	48.6	—	64.02	-15.41	L1	GND
0.254	FINAL	—	30.41	51.64	-21.23	L1	GND
0.254	FINAL	43.9	—	61.64	-17.76	L1	GND
0.623	FINAL	34.5	—	56.00	-21.49	L1	GND
0.623	FINAL	—	28.83	46.00	-17.17	L1	GND
1.930	FINAL	31.8	—	56.00	-24.25	L1	GND
1.930	FINAL	—	26.52	46.00	-19.48	L1	GND
6.965	FINAL	—	17.78	50.00	-32.22	L1	GND
6.968	FINAL	26.6	—	60.00	-33.41	L1	GND
27.740	FINAL	—	14.18	50.00	-35.82	L1	GND
27.740	FINAL	22.3	—	60.00	-37.75	L1	GND

Table 7-229. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 1 (L1) with AC/DC adapter

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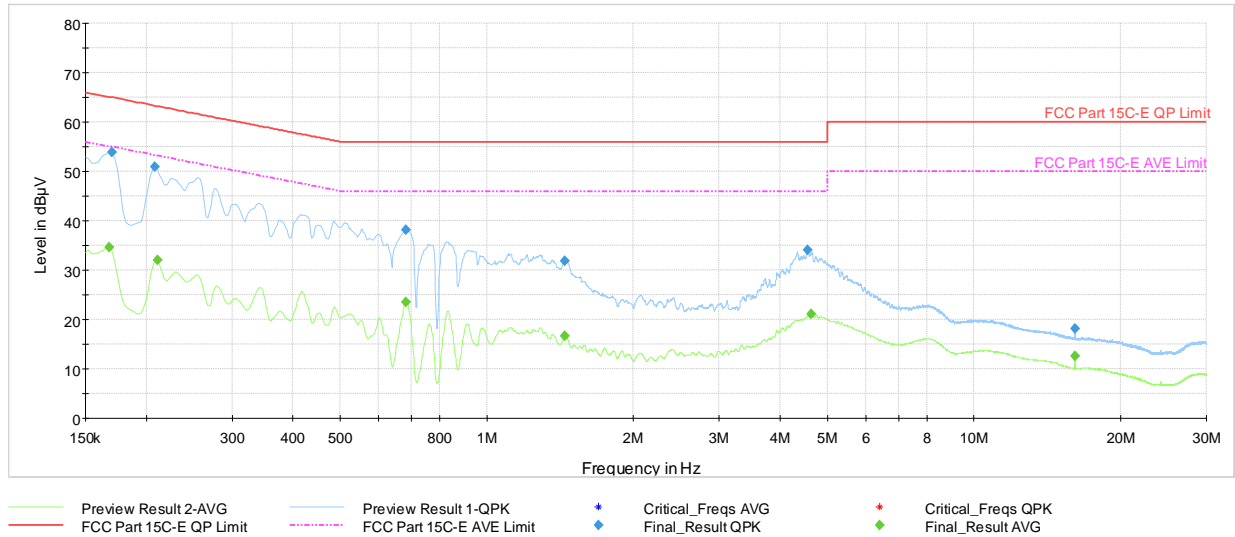
**Plot 7-1588. AC Line Conducted Plot with 802.11ax SDM Primary – Ch. 1 (N), with AC/DC adapter**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.197	FINAL	—	32.87	53.73	-20.86	N	GND
0.197	FINAL	44.5	—	63.73	-19.21	N	GND
0.337	FINAL	—	26.55	49.28	-22.73	N	GND
0.337	FINAL	38.2	—	59.28	-21.12	N	GND
0.542	FINAL	—	21.53	46.00	-24.47	N	GND
0.542	FINAL	33.1	—	56.00	-22.87	N	GND
1.928	FINAL	28.9	—	56.00	-27.08	N	GND
1.928	FINAL	—	20.16	46.00	-25.84	N	GND
8.003	FINAL	21.2	—	60.00	-38.80	N	GND
8.003	FINAL	—	11.97	50.00	-38.03	N	GND
27.740	FINAL	—	15.67	50.00	-34.33	N	GND
27.740	FINAL	24.6	—	60.00	-35.43	N	GND

**Table 7-230. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 1 (N), with AC/DC adapter**

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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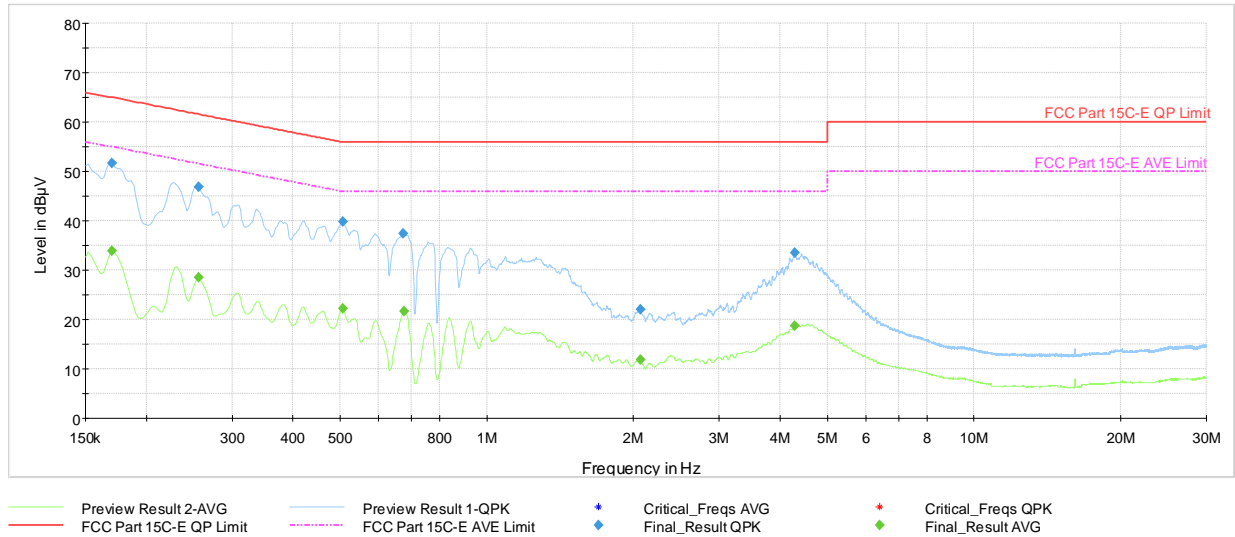
Plot 7-1589. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch.1 (L1), with AC/DC adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	—	34.62	55.06	-20.44	L1	GND
0.170	FINAL	54.0	—	64.95	-10.98	L1	GND
0.209	FINAL	51.0	—	63.27	-12.25	L1	GND
0.211	FINAL	—	32.11	53.18	-21.06	L1	GND
0.683	FINAL	—	23.52	46.00	-22.48	L1	GND
0.683	FINAL	38.2	—	56.00	-17.81	L1	GND
1.446	FINAL	31.8	—	56.00	-24.21	L1	GND
1.446	FINAL	—	16.68	46.00	-29.32	L1	GND
4.549	FINAL	34.0	—	56.00	21.96	L1	GND
4.641	FINAL	—	21.10	46.00	-24.90	L1	GND
16.100	FINAL	—	12.52	50.00	-37.48	L1	GND
16.100	FINAL	18.2	—	60.00	-41.77	L1	GND

Table 7-231. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 1 (L1) with AC/DC adapter

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-1590. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch. 1 (N), with AC/DC adapter**

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.170	FINAL	—	33.83	54.95	-21.12	N	GND
0.170	FINAL	51.7	—	64.95	-13.21	N	GND
0.256	FINAL	—	28.45	51.57	-23.12	N	GND
0.256	FINAL	46.8	—	61.57	-14.76	N	GND
0.506	FINAL	—	22.21	46.00	-23.79	N	GND
0.506	FINAL	39.8	—	56.00	-16.17	N	GND
0.674	FINAL	37.3	—	56.00	-18.68	N	GND
0.677	FINAL	—	21.64	46.00	-24.36	N	GND
2.067	FINAL	—	11.84	46.00	-34.16	N	GND
2.069	FINAL	22.0	—	56.00	-34.04	N	GND
4.279	FINAL	—	18.68	46.00	-27.32	N	GND
4.279	FINAL	33.5	—	56.00	-22.52	N	GND


**Table 7-232. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 1 (N), with AC/DC adapter**

FCC ID: BCGA2898 IC: 579C-A2898		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: BCGA2898** and **IC: 579C-A2898** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-248 of the Innovation, Science and Economic Development Canada Rules.

<b>FCC ID:</b> BCGA2898 <b>IC:</b> 579C-A2898		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270065-13-R2.BCG	<b>Test Dates:</b> 12/1/2023 - 04/04/2024	<b>EUT Type:</b> Tablet Device	Page 552 of 552

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