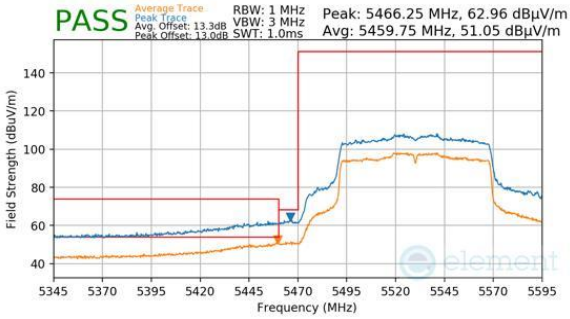
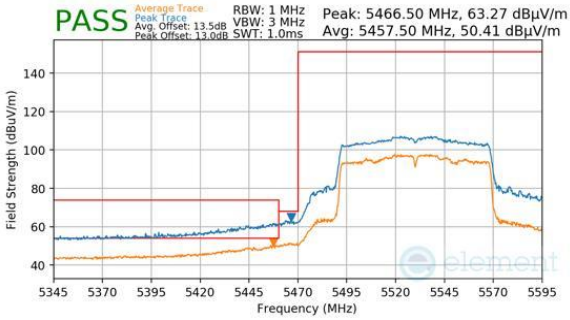
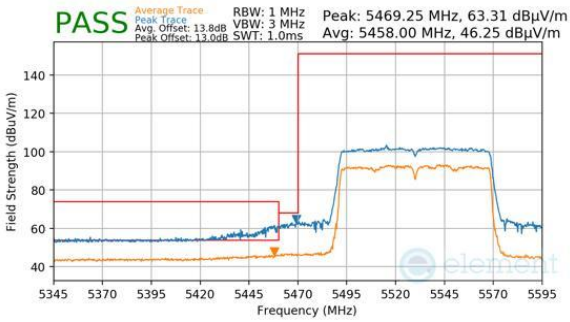


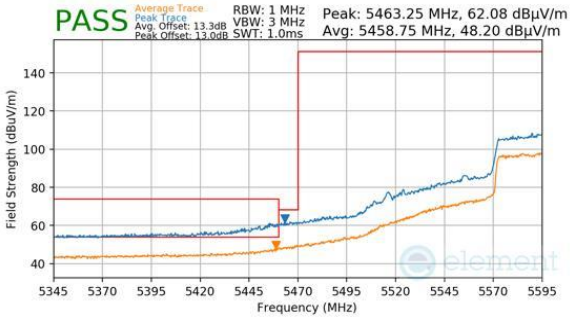
Plot 7-1942. CDD Diversity (Peak & Average, Ch.106, 802.11ac, MCS2)



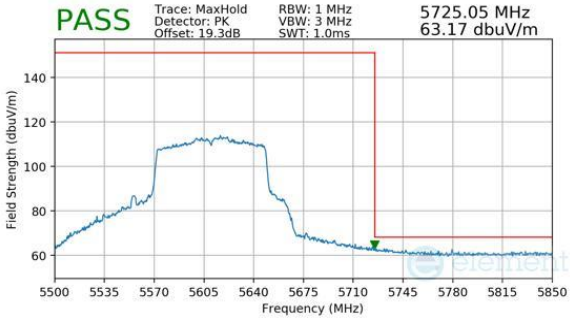
Plot 7-1943. CDD Diversity (Peak & Average, Ch.106, 802.11ac, MCS4)



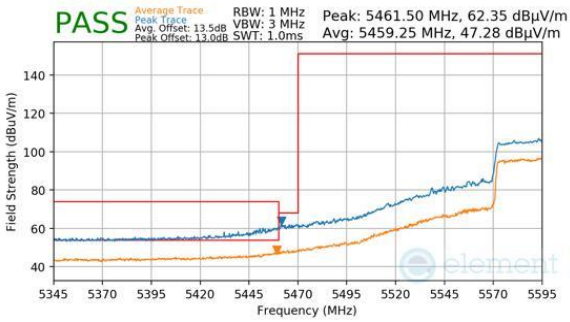
Plot 7-1944. CDD Diversity (Peak & Average, Ch.106, 802.11ac, MCS9)



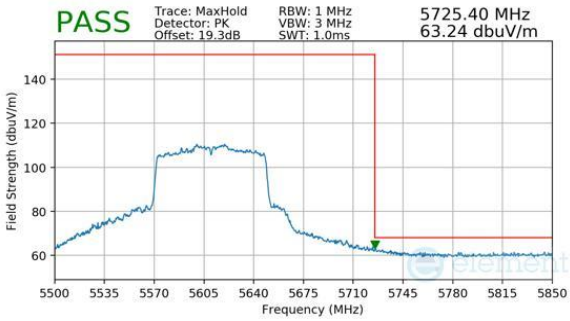
Plot 7-1945. (FCC Only) CDD Diversity (Peak & Average, Ch.122, 802.11ac, MCS2)



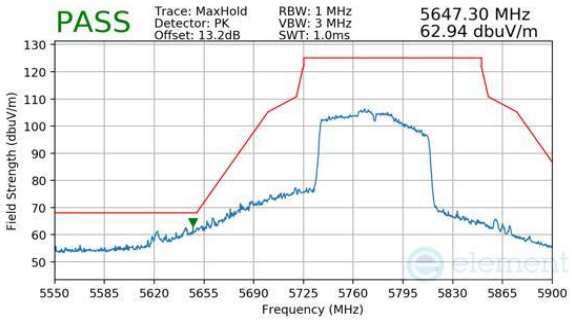
Plot 7-1946. (FCC Only) CDD Diversity (Peak, Ch.122, 802.11ac, MCS2)



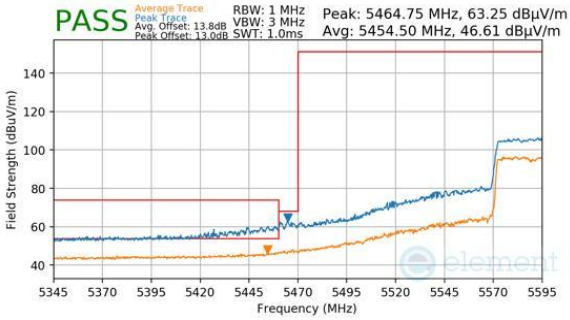
Plot 7-1947. (FCC Only) CDD Diversity (Peak & Average, Ch.122, 802.11ac, MCS4)



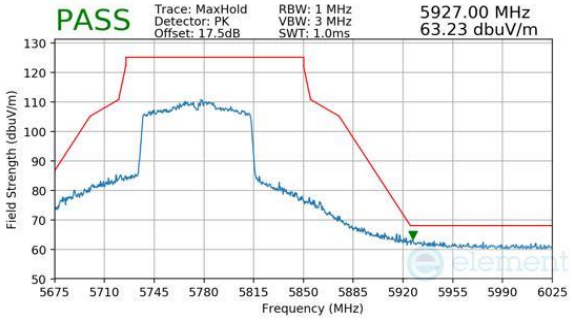
Plot 7-1948. (FCC Only) CDD Diversity (Peak, Ch.122, 802.11ac, MCS4)



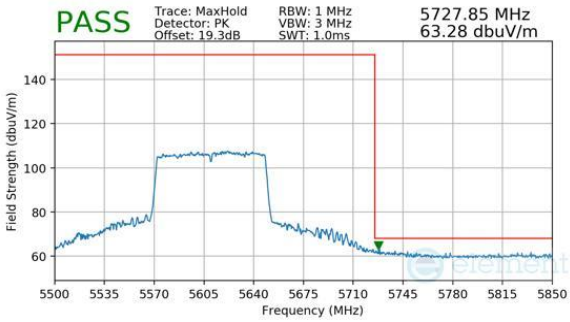
Plot 7-1951. CDD Diversity (Peak, Ch.155, 802.11ac, MCS2)



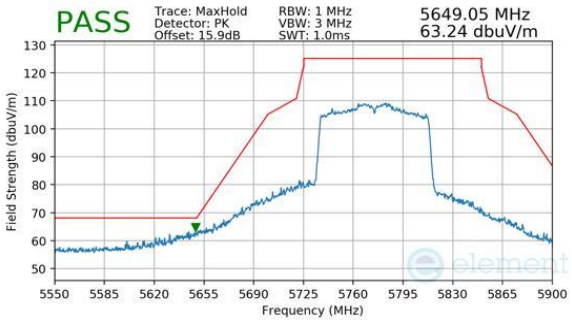
Plot 7-1949. (FCC Only) CDD Diversity (Peak & Average, Ch.122, 802.11ac, MCS9)



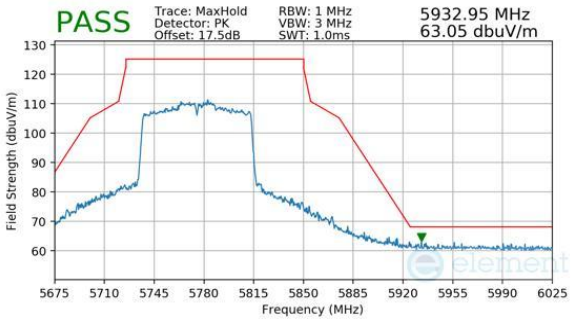
Plot 7-1952. CDD Diversity (Peak, Ch.155, 802.11ac, MCS2)



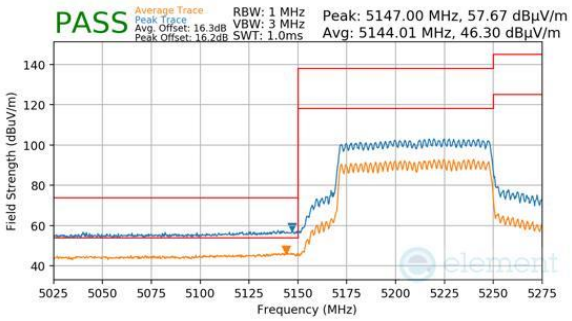
Plot 7-1950. (FCC Only) CDD Diversity (Peak, Ch.122, 802.11ac, MCS9)



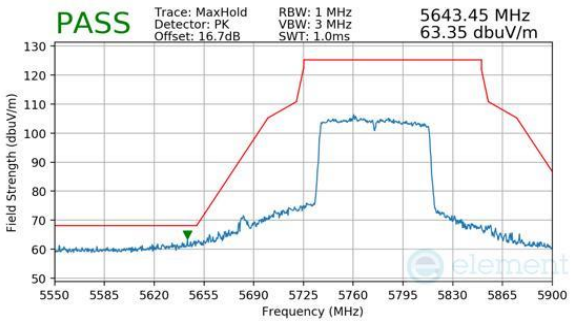
Plot 7-1953. CDD Diversity (Peak, Ch.155, 802.11ac, MCS4)



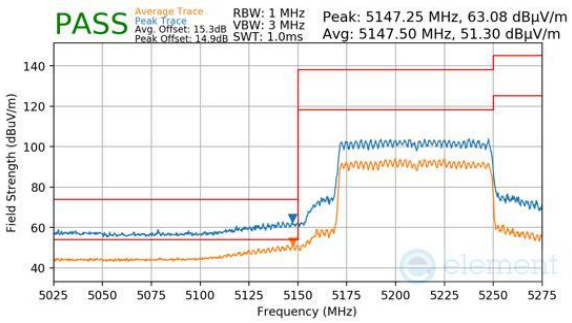
Plot 7-1954. CDD Diversity (Peak, Ch.155, 802.11ac, MCS4)



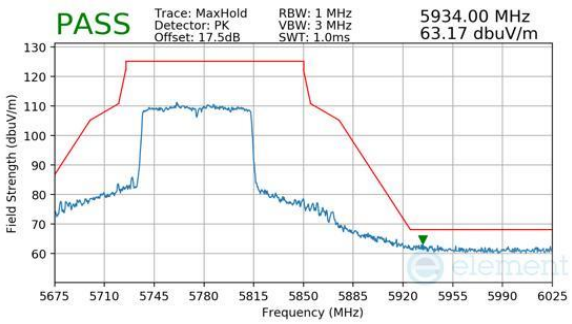
Plot 7-1957. CDD Diversity (Peak & Average, Ch.42, 802.11ax(SU), MCS2)



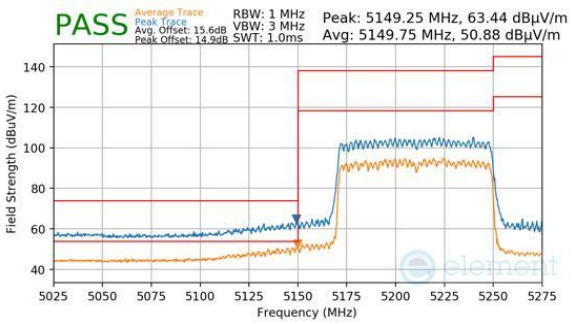
Plot 7-1955. CDD Diversity (Peak, Ch.155, 802.11ac, MCS9)



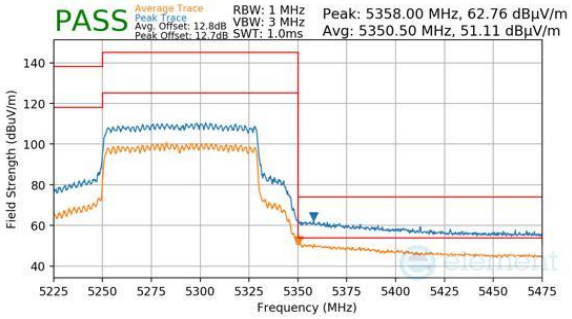
Plot 7-1958. CDD Diversity (Peak & Average, Ch.42, 802.11ax(SU), MCS4)



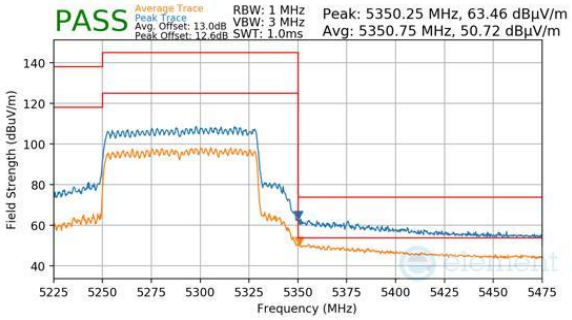
Plot 7-1956. CDD Diversity (Peak, Ch.155, 802.11ac, MCS9)



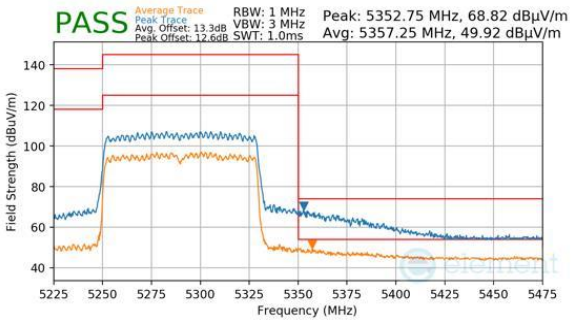
Plot 7-1959. CDD Diversity (Peak & Average, Ch.42, 802.11ax(SU), MCS11)



Plot 7-1960. CDD Diversity (Peak & Average, Ch.58, 802.11ax(SU), MCS2)

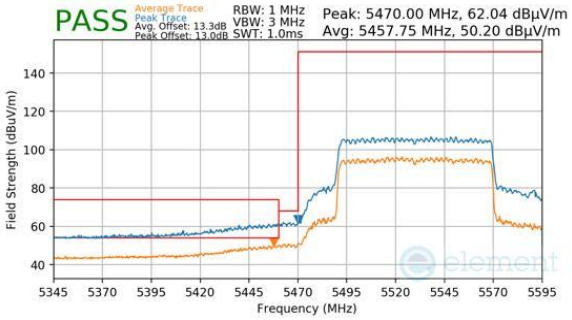


Plot 7-1961. CDD Diversity (Peak & Average, Ch.58, 802.11ax(SU), MCS4)

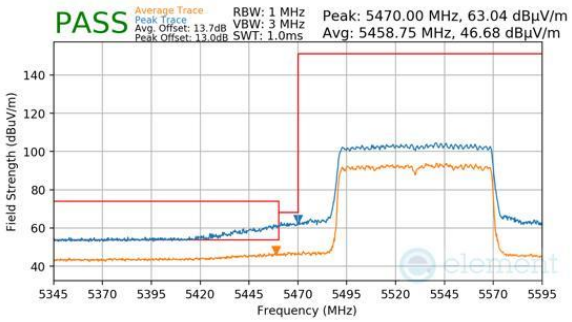


Plot 7-1962. CDD Diversity (Peak & Average, Ch.58, 802.11ax(SU), MCS11)

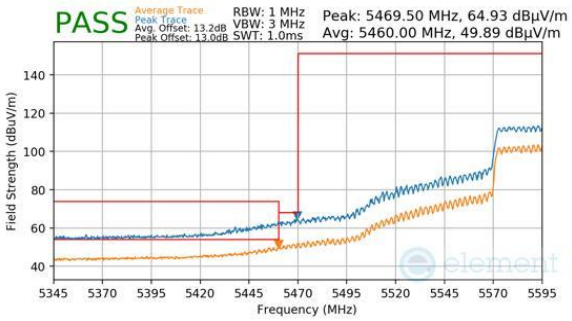
Plot 7-1963. CDD Diversity (Peak & Average, Ch.106, 802.11ax(SU), MCS2)



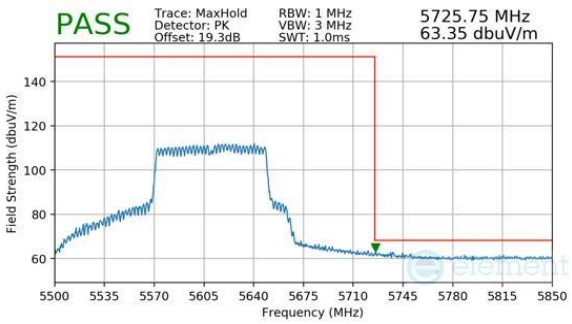
Plot 7-1964. CDD Diversity (Peak & Average, Ch.106, 802.11ax(SU), MCS4)



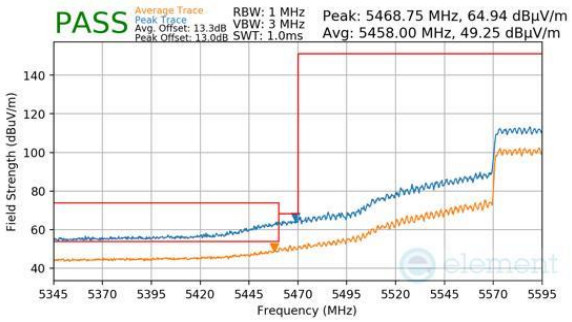
Plot 7-1965. CDD Diversity (Peak & Average, Ch.106, 802.11ax(SU), MCS11)



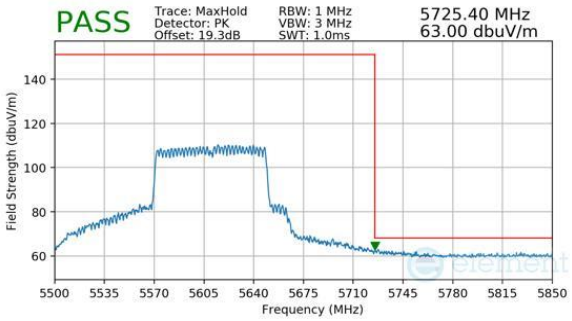
Plot 7-1966. (FCC Only) CDD Diversity (Peak & Average, Ch.122, 802.11ax(SU), MCS2)



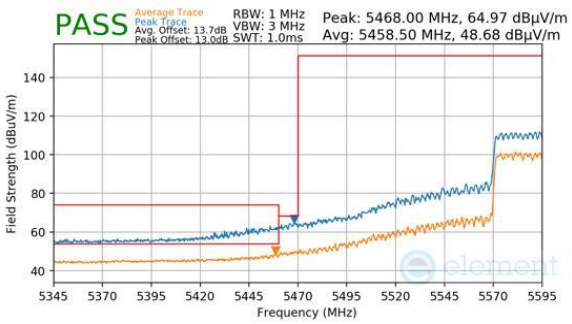
Plot 7-1967. (FCC Only) CDD Diversity (Peak, Ch.122, 802.11ax(SU), MCS2)



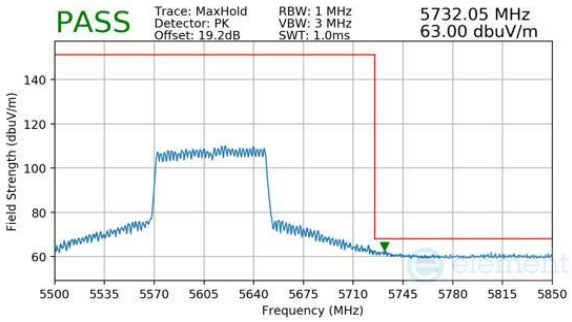
Plot 7-1968. (FCC Only) CDD Diversity (Peak & Average, Ch.122, 802.11ax(SU), MCS4)



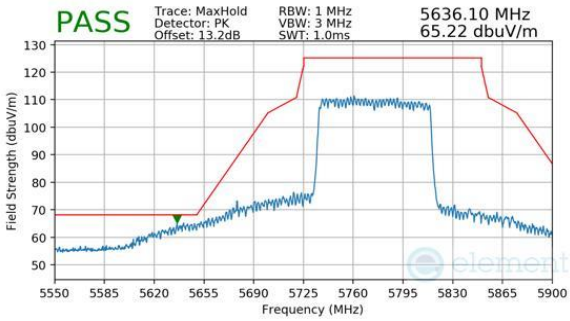
Plot 7-1969. (FCC Only) CDD Diversity (Peak, Ch.122, 802.11ax(SU), MCS4)



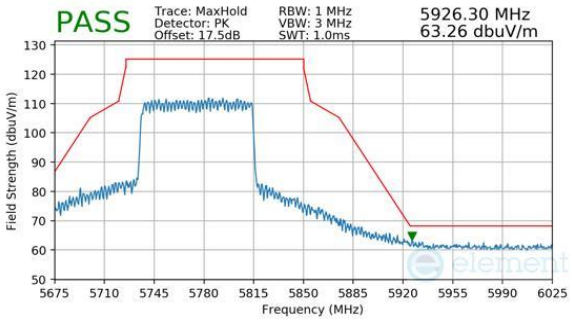
Plot 7-1970. (FCC Only) CDD Diversity (Peak & Average, Ch.122, 802.11ax(SU), MCS11)



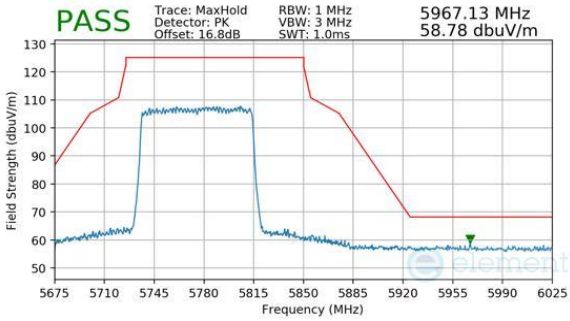
Plot 7-1971. (FCC Only) CDD Diversity (Peak, Ch.122, 802.11ax(SU), MCS11)



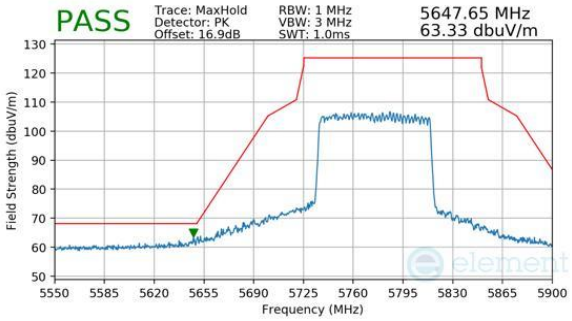
Plot 7-1972. CDD Diversity (Peak, Ch.155, 802.11ax(SU), MCS2)



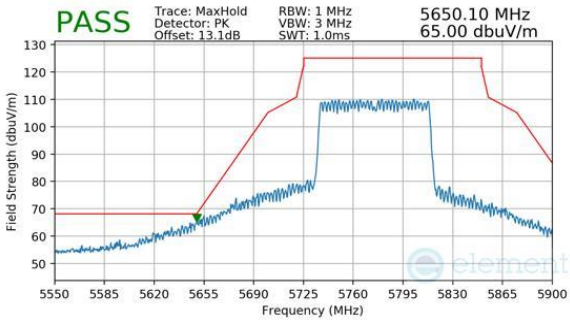
Plot 7-1975. CDD Diversity (Peak, Ch.155, 802.11ax(SU), MCS4)



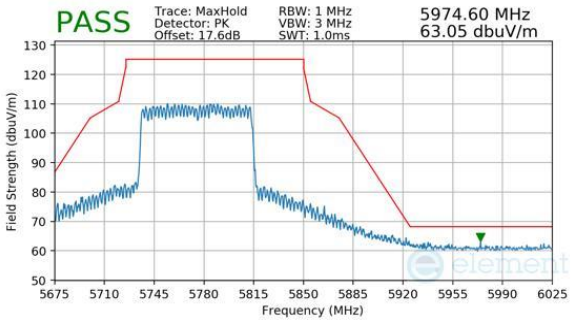
Plot 7-1973. CDD Diversity (Peak, Ch.155, 802.11ax(SU), MCS2)



Plot 7-1976. CDD Diversity (Peak, Ch.155, 802.11ax(SU), MCS11)



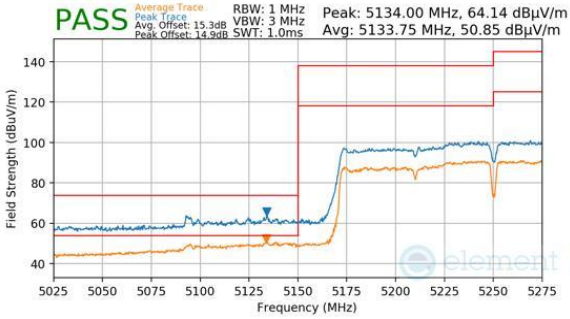
Plot 7-1974. CDD Diversity (Peak, Ch.155, 802.11ax(SU), MCS4)



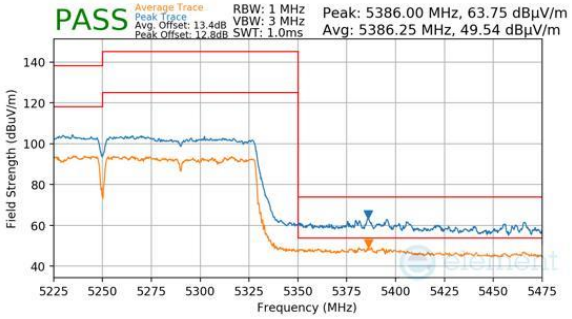
Plot 7-1977. CDD Diversity (Peak, Ch.155, 802.11ax(SU), MCS11)

7.6.25 CDD Diversity Radiated Band Edge Measurements (160MHz BW)

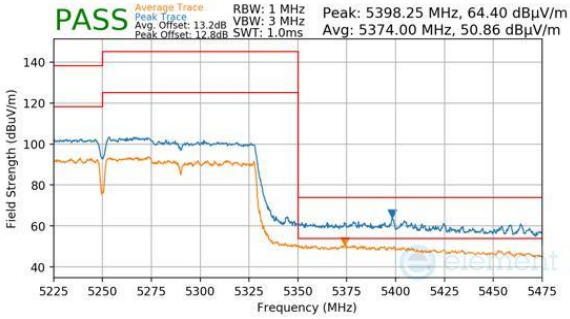
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



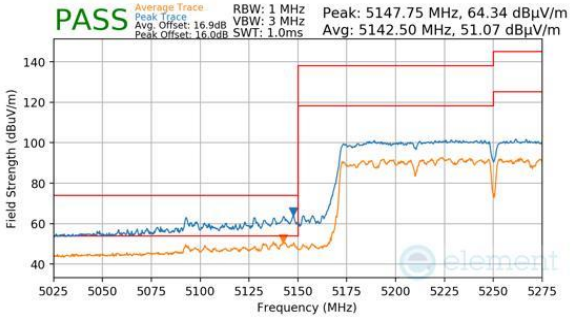
Plot 7-1978. CDD Diversity (Peak & Average, Ch.50, 802.11ac, MCS2)



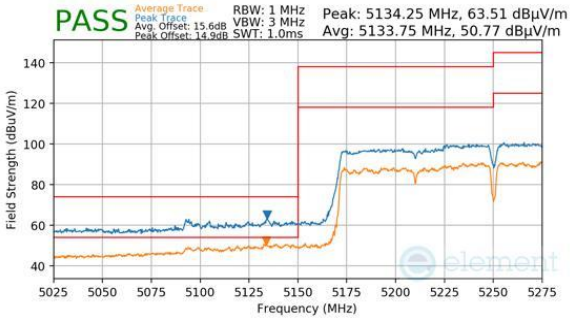
Plot 7-1981. CDD Diversity (Peak & Average, Ch.50, 802.11ac, MCS4)



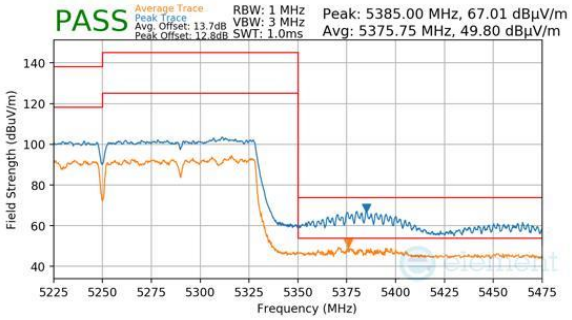
Plot 7-1979. CDD Diversity (Peak & Average, Ch.50, 802.11ac, MCS2)



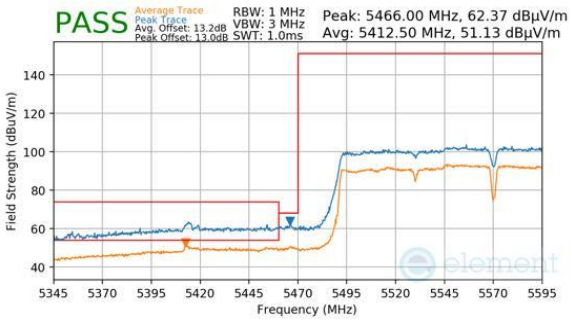
Plot 7-1982. CDD Diversity (Peak & Average, Ch.50, 802.11ac, MCS9)



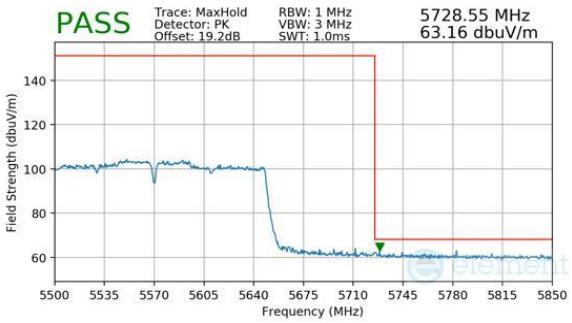
Plot 7-1980. CDD Diversity (Peak & Average, Ch.50, 802.11ac, MCS4)



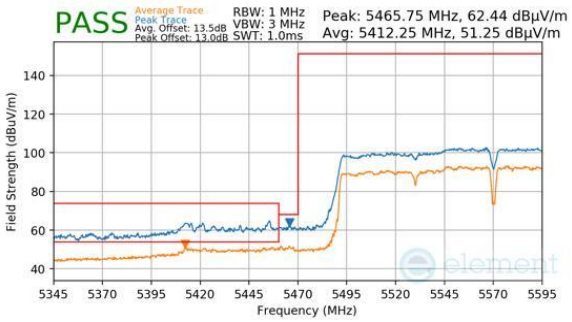
Plot 7-1983. CDD Diversity (Peak & Average, Ch.50, 802.11ac, MCS9)



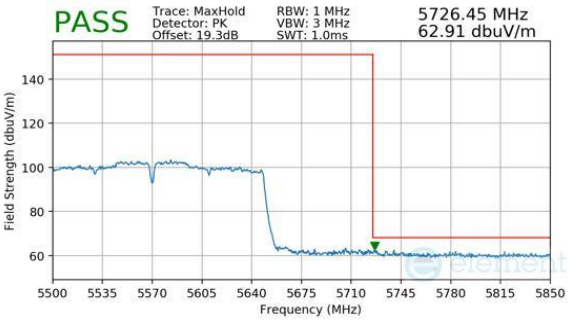
Plot 7-1984. (FCC Only) CDD Diversity (Peak & Average, Ch.114, 802.11ac, MCS2)



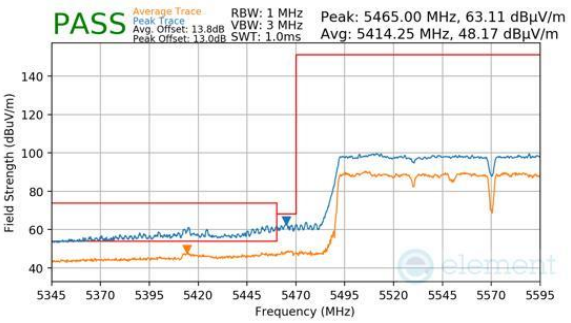
Plot 7-1985. (FCC Only) CDD Diversity (Peak, Ch.114, 802.11ac, MCS2)



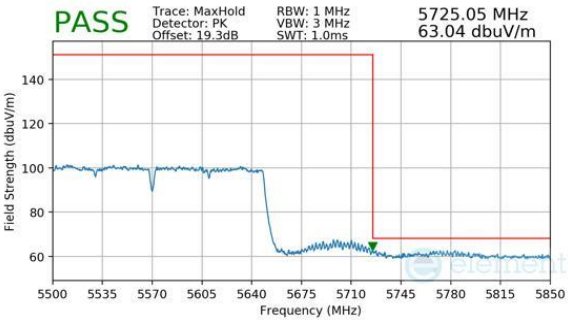
Plot 7-1986. (FCC Only) CDD Diversity (Peak & Average, Ch.114, 802.11ac, MCS4)



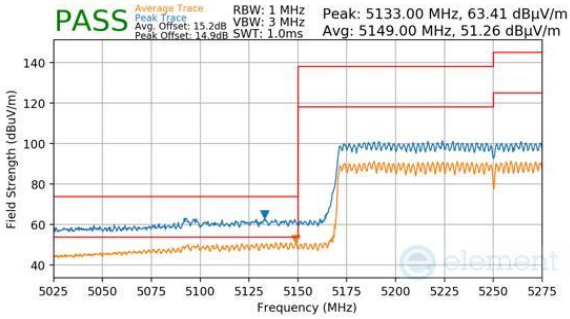
Plot 7-1987. (FCC Only) CDD Diversity (Peak, Ch.114, 802.11ac, MCS4)



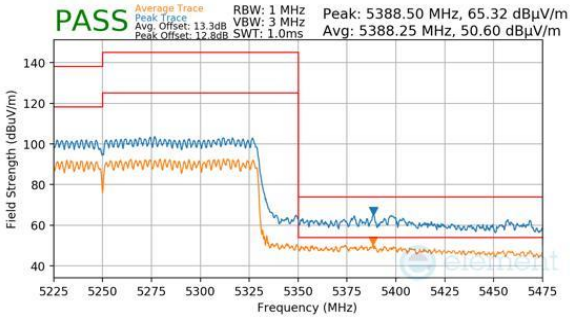
Plot 7-1988. (FCC Only) CDD Diversity (Peak & Average, Ch.114, 802.11ac, MCS9)



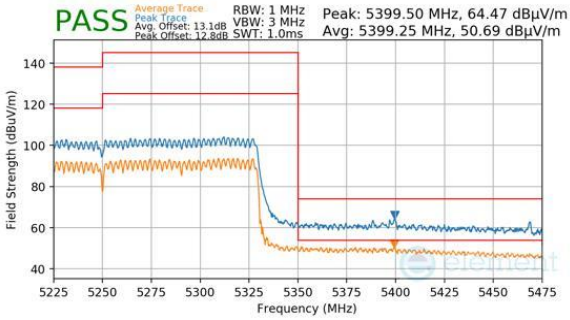
Plot 7-1989. (FCC Only) CDD Diversity (Peak, Ch.114, 802.11ac, MCS9)



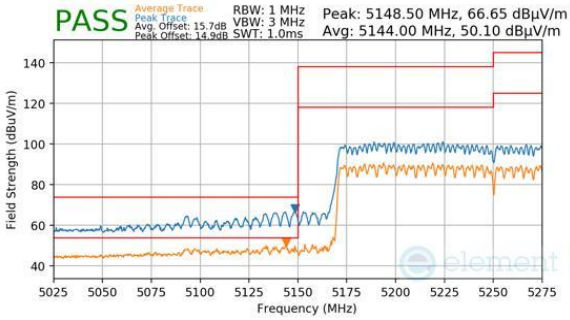
Plot 7-1990. CDD Diversity (Peak & Average, Ch.50, 802.11ax(SU), MCS2)



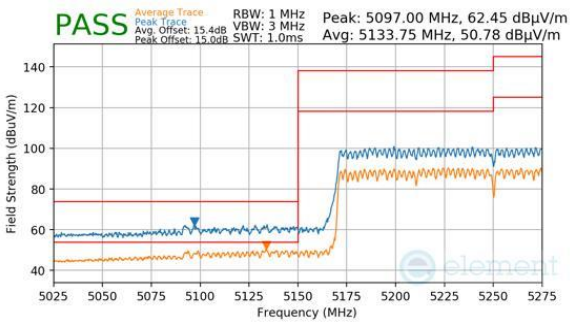
Plot 7-1993. CDD Diversity (Peak & Average, Ch.50, 802.11ax(SU), MCS4)



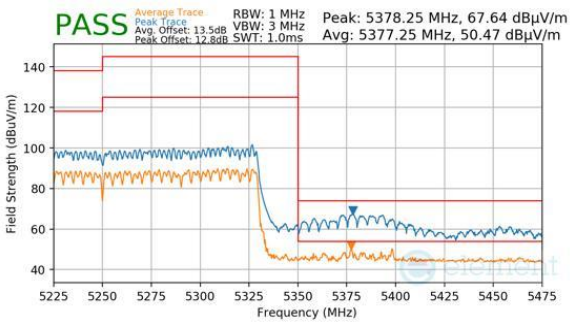
Plot 7-1991. CDD Diversity (Peak & Average, Ch.50, 802.11ax(SU), MCS2)



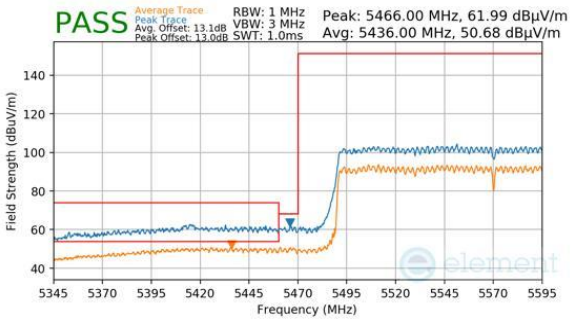
Plot 7-1994. CDD Diversity (Peak & Average, Ch.50, 802.11ax(SU), MCS11)



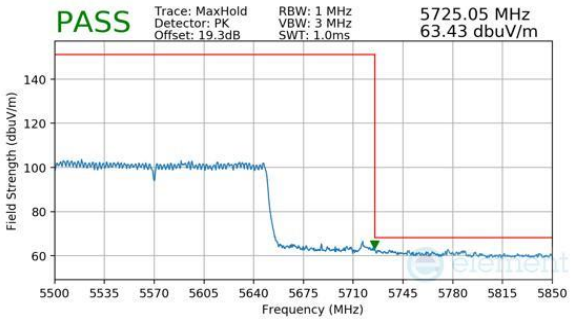
Plot 7-1992. CDD Diversity (Peak & Average, Ch.50, 802.11ax(SU), MCS4)



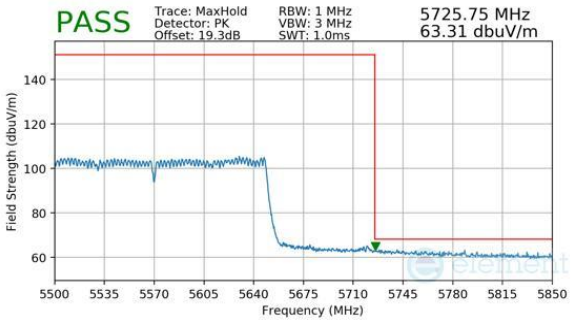
Plot 7-1995. CDD Diversity (Peak & Average, Ch.50, 802.11ax(SU), MCS11)



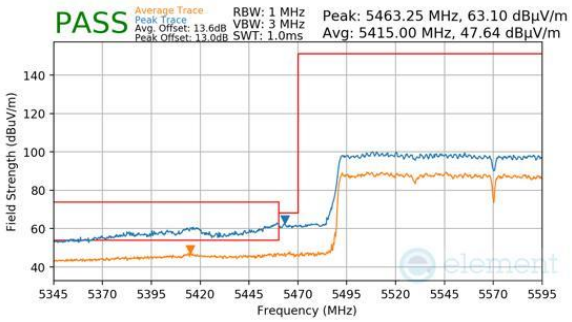
Plot 7-1996. (FCC Only) CDD Diversity (Peak & Average, Ch.114, 802.11ax(SU), MCS2)



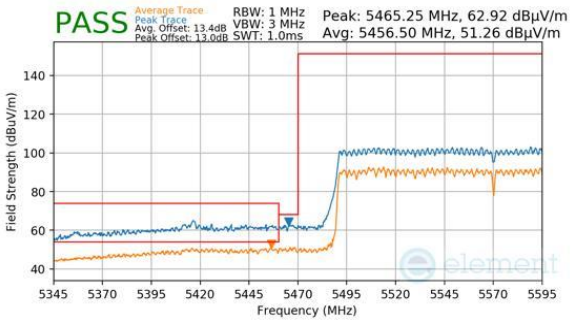
Plot 7-1999. (FCC Only) CDD Diversity (Peak, Ch.114, 802.11ax(SU), MCS4)



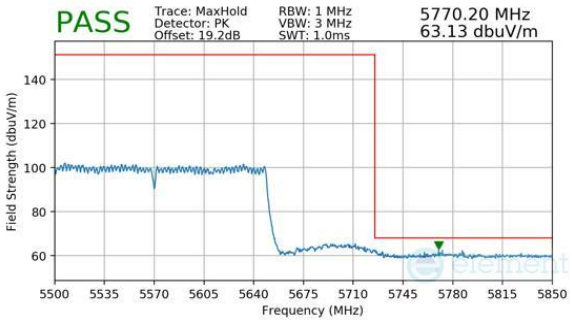
Plot 7-1997. (FCC Only) CDD Diversity (Peak, Ch.114, 802.11ax(SU), MCS2)



Plot 7-2000. (FCC Only) CDD Diversity (Peak & Average, Ch.114, 802.11ax(SU), MCS11)



Plot 7-1998. (FCC Only) CDD Diversity (Peak & Average, Ch.114, 802.11ax(SU), MCS4)



Plot 7-2001. (FCC Only) CDD Diversity (Peak, Ch.114, 802.11ax(SU), MCS11)

7.7 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 7-366 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 7-366. Radiated Limits

Test Procedures Used

ANSI C63.10-2020

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

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

Test Setup

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

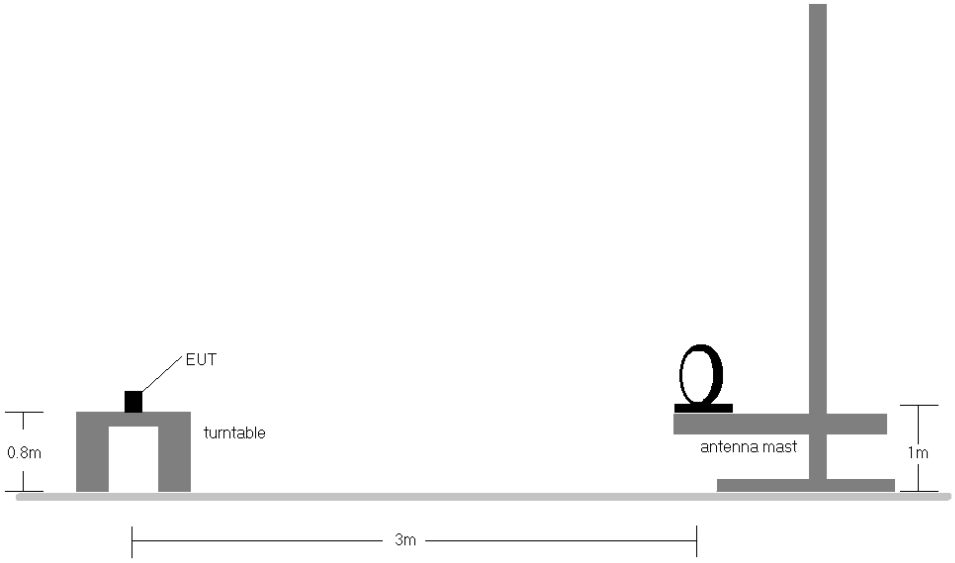


Figure 7-6. Radiated Test Setup < 30MHz

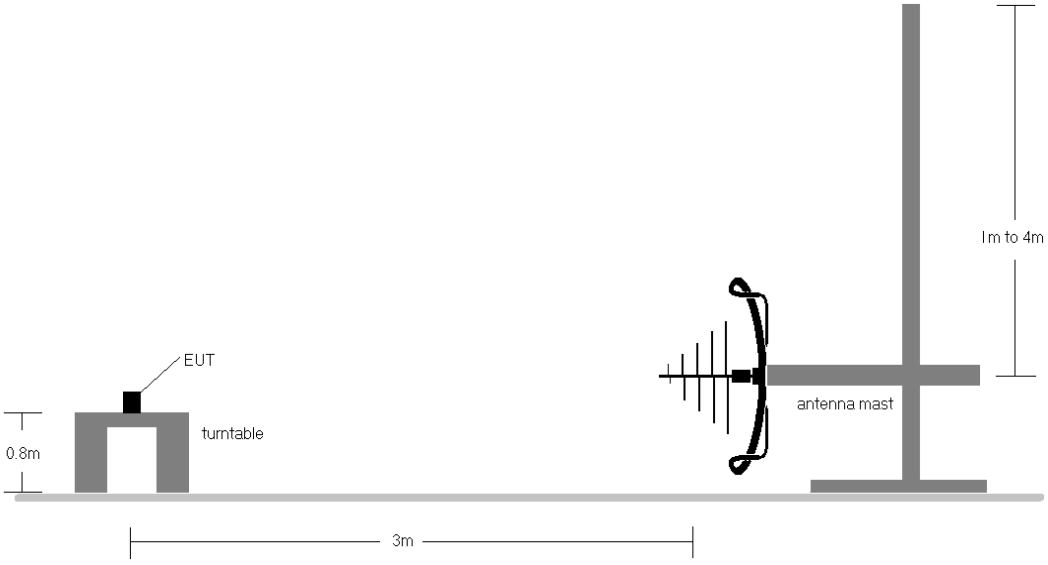


Figure 7-7. Radiated Test Setup < 1GHz

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 7-366.
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.

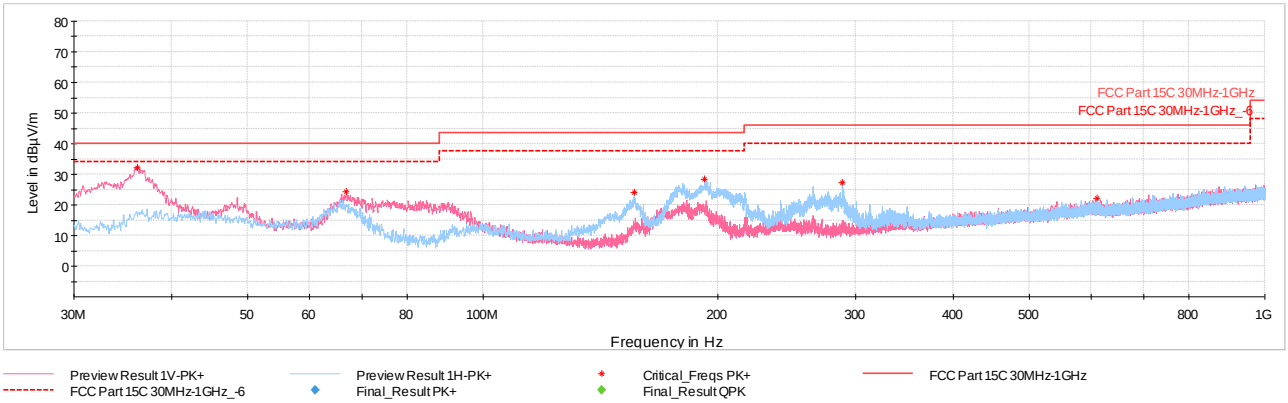
Sample Calculations

Determining Spurious Emissions Levels

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

7.7.1 CDD/SDM Primary Radiated Spurious Emissions Measurements (Below 1GHz)

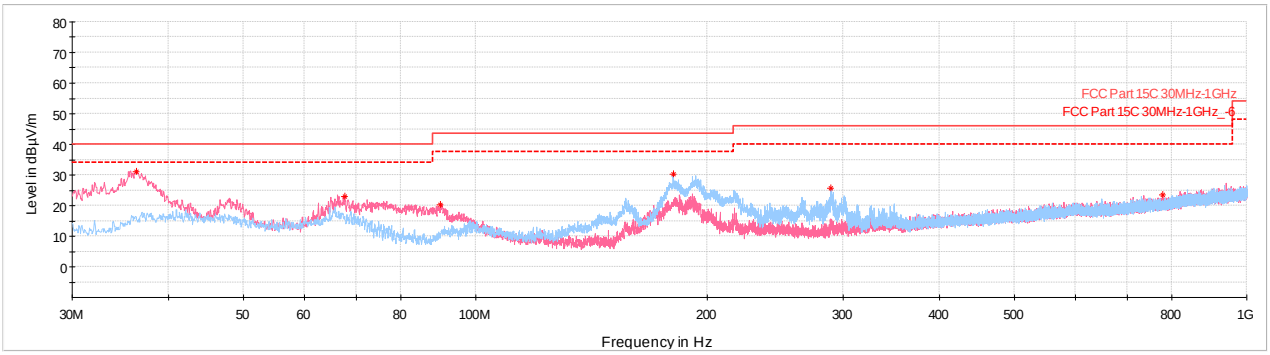
§15.209; RSS-Gen [8.9]



Plot 7-2002. Radiated Spurious Emissions below 1GHz CDD Primary, 802.11n, Ch.40 with AC/DC Adapter and USB-C cable

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]
36.16	Max Peak	V	100	292	-59.90	-14.85	32.25	40.00	-7.75
66.91	Max Peak	V	200	172	-65.59	-17.18	24.23	40.00	-15.77
156.20	Max Peak	H	100	169	-63.74	-19.24	24.02	43.52	-19.50
191.94	Max Peak	H	100	175	-61.92	-16.62	28.46	43.52	-15.06
288.36	Max Peak	H	100	255	-65.63	-14.18	27.19	46.02	-18.83
610.40	Max Peak	H	300	50	-78.16	-6.60	22.24	46.02	-23.78

Table 7-367. Radiated Spurious Emissions below 1GHz, CDD Primary 802.11n, Ch.40 with AC/DC Adapter and USB-C cable



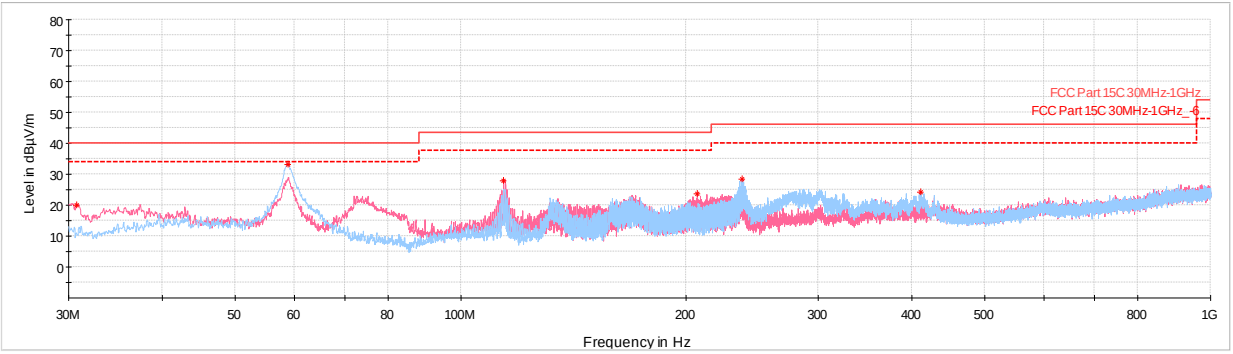
Plot 7-2003. Radiated Spurious Emissions below 1GHz SDM Primary, 802.11ax (SU), Ch.40 with AC/DC Adapter and USB-C cable

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	254	-61.04	-14.79	31.17	40.00	-8.83
67.69	Max Peak	V	100	249	-66.44	-17.50	23.06	40.00	-16.94
90.14	Max Peak	V	100	194	-68.77	-17.94	20.29	43.52	-23.23
180.45	Max Peak	H	200	181	-58.71	-18.01	30.28	43.52	-13.24
288.94	Max Peak	H	100	71	-67.21	-14.19	25.60	46.02	-20.42
778.70	Max Peak	V	200	42	-79.00	-4.49	23.51	46.02	-22.51

Table 7-368. Radiated Spurious Emissions below 1GHz, SDM Primary 802.11ax (SU), Ch.40 with AC/DC Adapter and USB-C cable

7.7.2 SDM Diversity Radiated Spurious Emissions Measurements (Below 1GHz)

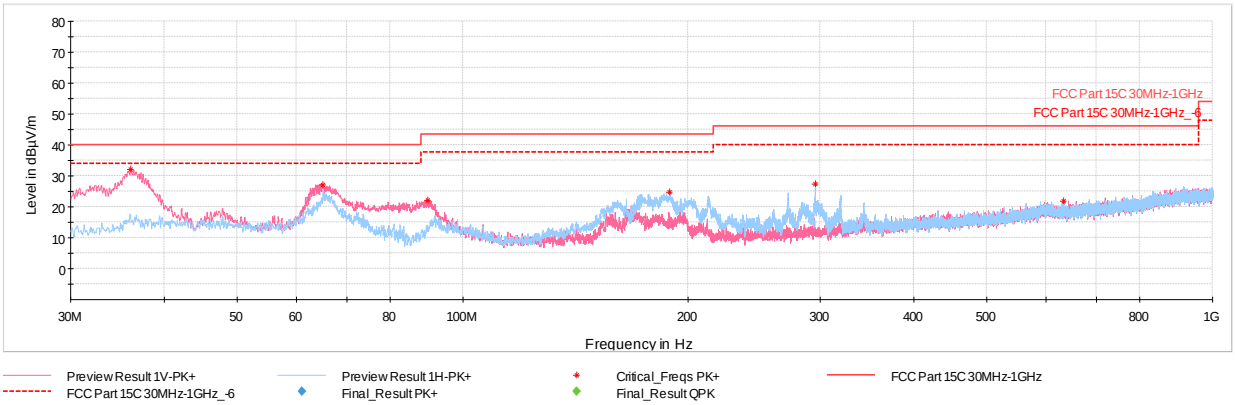
§15.209; RSS-Gen [8.9]



Plot 7-2004. Radiated Spurious Emissions below 1GHz SDM Diversity, 802.11n, Ch.40 with host PC and USB-C cable

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]
30.73	Max Peak	V	100	70	-71.21	-15.76	20.03	40.00	-19.97
58.81	Max Peak	H	200	189	-59.25	-14.59	33.16	40.00	-6.84
114.10	Max Peak	V	100	12	-62.04	-16.97	27.99	43.52	-15.53
206.83	Max Peak	V	300	37	-66.52	-16.84	23.64	43.52	-19.88
237.53	Max Peak	H	100	194	-63.36	-15.19	28.45	46.02	-17.57
410.53	Max Peak	H	100	234	-72.18	-10.69	24.13	46.02	-21.89

Table 7-369. Radiated Spurious Emissions below 1GHz, 802.11n, SDM Diversity Ch.40 with host PC and USB-C cable



Plot 7-2005. Radiated Spurious Emissions below 1GHz SDM Diversity, 802.11ax (SU), Ch.40 with AC/DC Adapter and USB-C Cable

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]
36.11	Max Peak	V	100	271	-60.09	-14.87	32.04	40.00	-7.96
65.16	Max Peak	V	100	169	-63.19	-16.61	27.20	40.00	-12.80
89.90	Max Peak	V	100	134	-66.83	-18.01	22.16	43.52	-21.36
188.64	Max Peak	H	200	303	-65.04	-17.16	24.80	43.52	-18.72
295.10	Max Peak	H	100	246	-65.70	-14.06	27.24	46.02	-18.78
632.47	Max Peak	H	100	134	-78.32	-6.75	21.93	46.02	-24.09

Table 7-370. Radiated Spurious Emissions below 1GHz, SDM Diversity 802.11ax (SU), Ch.40 with AC/DC Adapter and USB-C Cable

7.8 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 7-371. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, 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

Test Setup

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

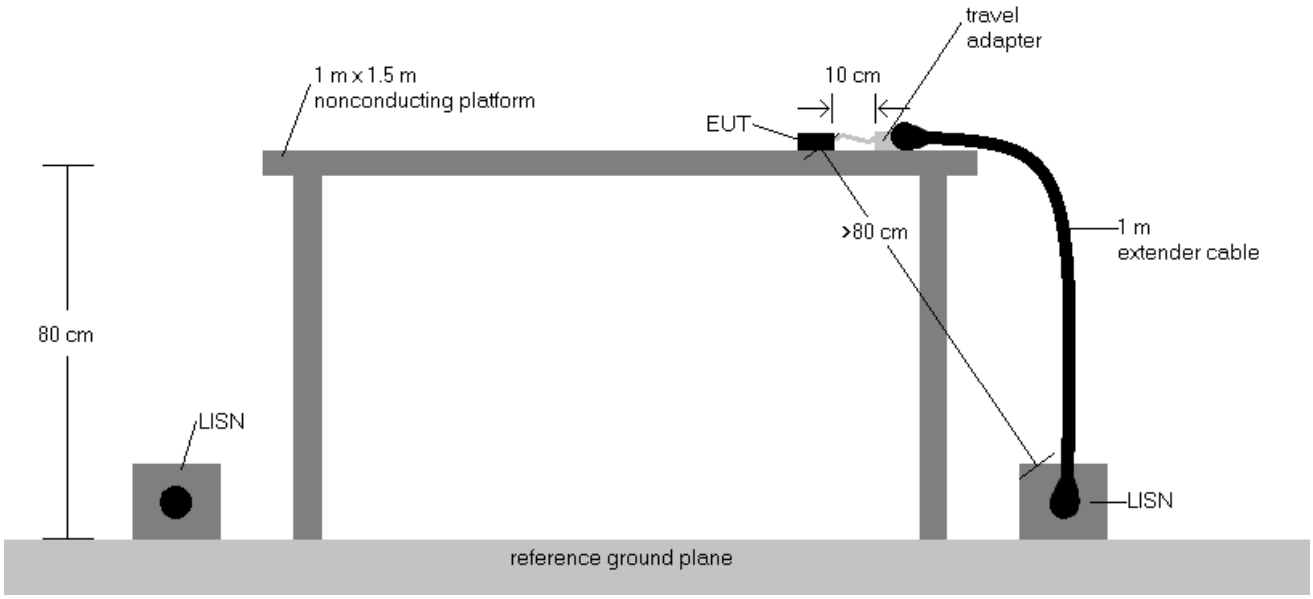
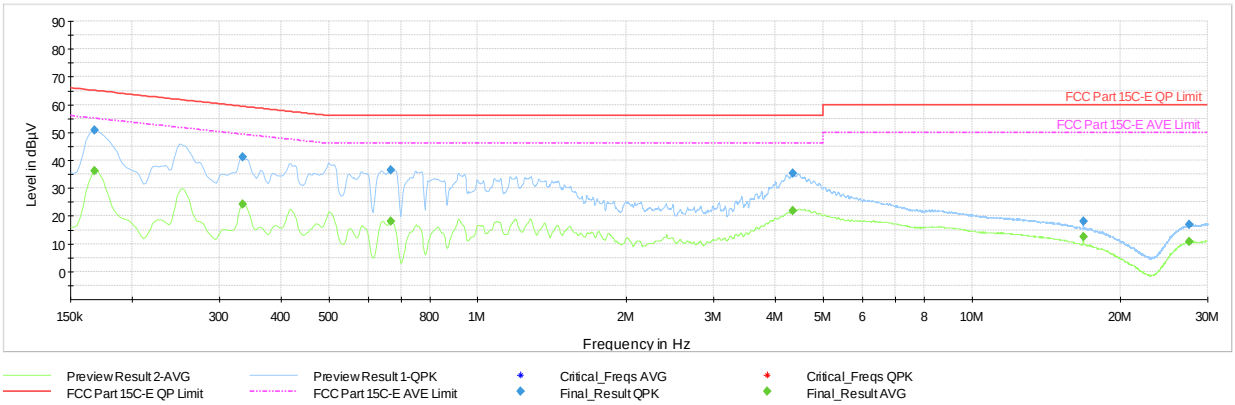


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

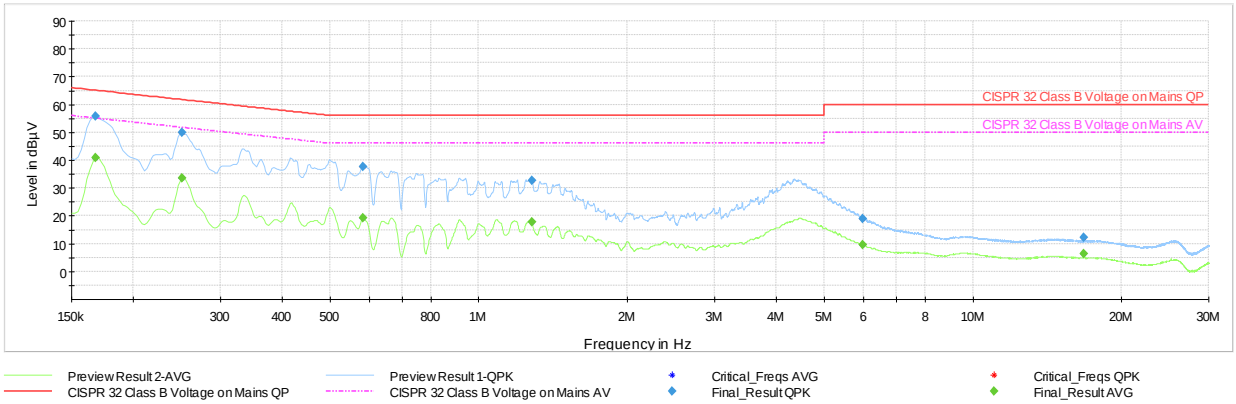
1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
    a. EUT powered by AC/DC adaptor via USB-C 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. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dBµV) - QP/AV Limit (dBµV)
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.



Plot 7-2006. AC Line Conducted Plot with 802.11n SDM Primary – Ch.40 (L1), with AC/DC Adapter and USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	36.33	55.06	-18.73	L1	GND
0.168	FINAL	50.8	—	65.06	-14.29	L1	GND
0.335	FINAL	—	24.24	49.34	-25.09	L1	GND
0.335	FINAL	41.1	—	59.34	-18.29	L1	GND
0.668	FINAL	—	18.06	46.00	-27.94	L1	GND
0.668	FINAL	36.4	—	56.00	-19.57	L1	GND
4.346	FINAL	35.3	—	56.00	-20.74	L1	GND
4.346	FINAL	—	22.01	46.00	-23.99	L1	GND
16.796	FINAL	18.0	—	60.00	-41.98	L1	GND
16.796	FINAL	—	12.65	50.00	-37.35	L1	GND
27.519	FINAL	—	10.77	50.00	-39.23	L1	GND
27.519	FINAL	16.8	—	60.00	-43.19	L1	GND

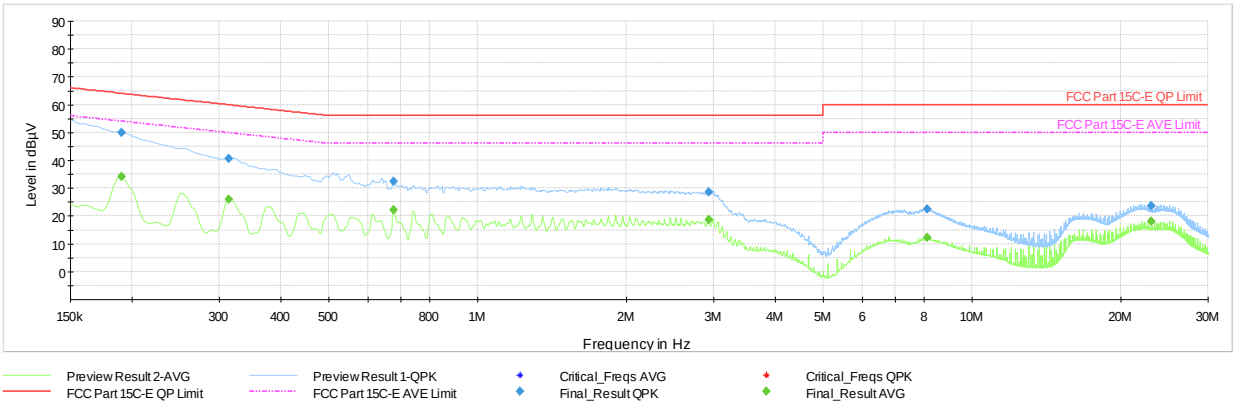
Table 7-372. AC Line Conducted Data with 802.11n SDM Primary – Ch.40 (L1) with AC/DC Adapter and USB-C Cable



Plot 7-2007. AC Line Conducted Plot with 802.11n SDM Primary – Ch.40 (N), with AC/DC Adapter and USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	40.85	55.06	-14.21	N	GND
0.168	FINAL	55.8	—	65.06	-9.26	N	GND
0.251	FINAL	—	33.63	51.72	-18.08	N	GND
0.251	FINAL	49.9	—	61.72	-11.85	N	GND
0.584	FINAL	—	19.29	46.00	-26.71	N	GND
0.584	FINAL	37.8	—	56.00	-18.21	N	GND
1.280	FINAL	32.7	—	56.00	-23.32	N	GND
1.280	FINAL	—	17.92	46.00	-28.08	N	GND
5.982	FINAL	19.0	—	60.00	-40.97	N	GND
5.982	FINAL	—	9.45	50.00	-40.55	N	GND
16.793	FINAL	—	6.34	50.00	-43.66	N	GND
16.793	FINAL	12.1	—	60.00	-47.90	N	GND

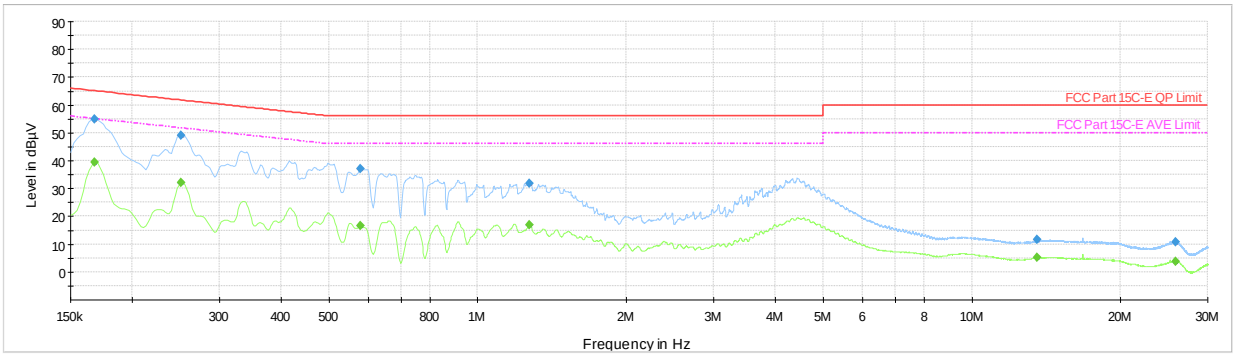
Table 7-373. AC Line Conducted Data with 802.11n SDM Primary – Ch.40 (N), with AC/DC Adapter and USB-C Cable



Plot 7-2008. AC Line Conducted Plot with 802.11ax(SU) SDM Primary – Ch.40 (L1), with AC/DC Adapter and USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.191	FINAL	—	34.12	54.02	-19.90	L1	GND
0.191	FINAL	49.9	—	64.02	-14.15	L1	GND
0.314	FINAL	—	26.08	49.86	-23.77	L1	GND
0.314	FINAL	40.7	—	59.86	-19.13	L1	GND
0.677	FINAL	—	22.15	46.00	-23.85	L1	GND
0.677	FINAL	32.4	—	56.00	-23.60	L1	GND
2.933	FINAL	28.6	—	56.00	-27.42	L1	GND
2.936	FINAL	—	18.52	46.00	-27.48	L1	GND
8.111	FINAL	22.5	—	60.00	-37.50	L1	GND
8.111	FINAL	—	12.27	50.00	-37.73	L1	GND
23.001	FINAL	—	18.03	50.00	-31.97	L1	GND
23.001	FINAL	23.7	—	60.00	-36.29	L1	GND

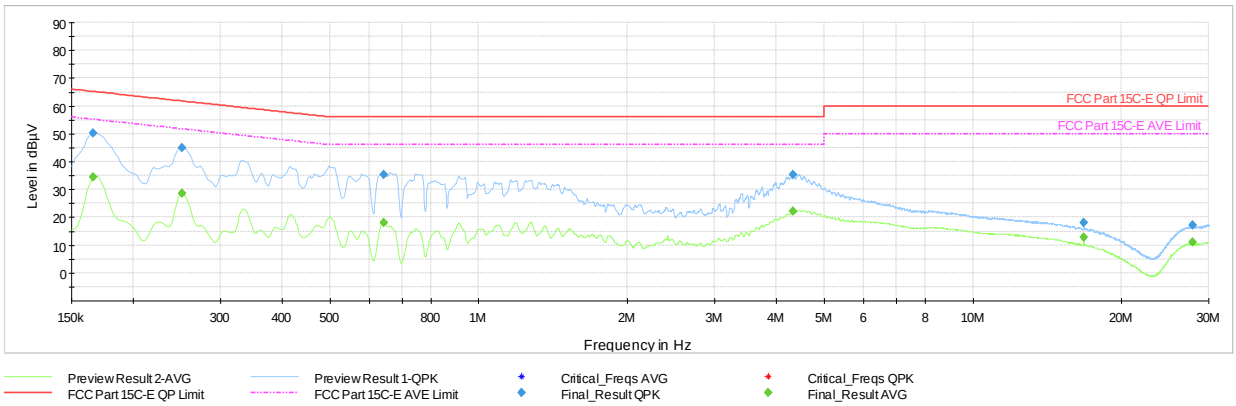
Table 7-374. AC Line Conducted Data with 802.11ax(SU) SDM Primary – Ch.40 (L1) with AC/DC Adapter and USB-C Cable



Plot 7-2009. AC Line Conducted Plot with 802.11ax(SU) SDM Primary – Ch.40 (N), with AC/DC Adapter and USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	39.44	55.06	-15.62	N	GND
0.168	FINAL	54.8	—	65.06	-10.25	N	GND
0.251	FINAL	—	32.16	51.72	-19.56	N	GND
0.251	FINAL	48.9	—	61.72	-12.78	N	GND
0.580	FINAL	—	16.72	46.00	-29.28	N	GND
0.580	FINAL	37.1	—	56.00	-18.86	N	GND
1.273	FINAL	31.8	—	56.00	-24.21	N	GND
1.273	FINAL	—	17.00	46.00	-29.00	N	GND
13.560	FINAL	11.8	—	60.00	-48.23	N	GND
13.560	FINAL	—	5.10	50.00	-44.90	N	GND
25.874	FINAL	—	3.84	50.00	-46.16	N	GND
25.874	FINAL	10.7	—	60.00	-49.28	N	GND

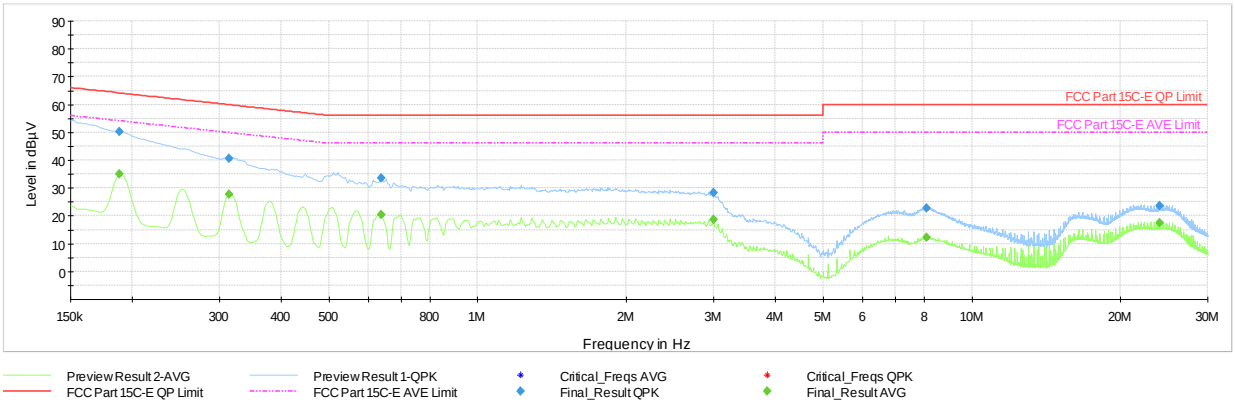
Table 7-375. AC Line Conducted Data with 802.11ax(SU) SDM Primary – Ch.40 (N), with AC/DC Adapter and USB-C Cable



Plot 7-2010. AC Line Conducted Plot with 802.11n SDM Diversity – Ch.40 (L1), with host PC and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	34.40	55.17	-20.77	L1	GND
0.166	FINAL	50.3	—	65.17	-14.83	L1	GND
0.251	FINAL	—	28.57	51.72	-23.14	L1	GND
0.251	FINAL	45.0	—	61.72	-16.72	L1	GND
0.643	FINAL	—	17.94	46.00	-28.06	L1	GND
0.643	FINAL	35.3	—	56.00	-20.74	L1	GND
4.324	FINAL	35.4	—	56.00	-20.60	L1	GND
4.324	FINAL	—	22.18	46.00	-23.82	L1	GND
16.778	FINAL	18.2	—	60.00	-41.84	L1	GND
16.778	FINAL	—	12.86	50.00	-37.14	L1	GND
27.845	FINAL	—	11.19	50.00	-38.81	L1	GND
27.845	FINAL	17.2	—	60.00	-42.77	L1	GND

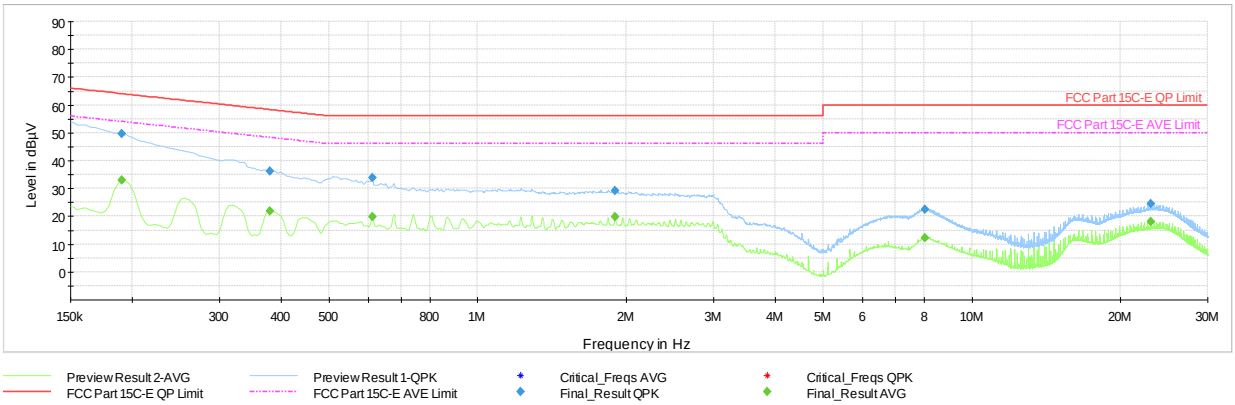
Table 7-376. AC Line Conducted Data with 802.11n SDM Diversity – Ch.40 (L1) with host PC and USB-C cable



Plot 7-2011. AC Line Conducted Plot with 802.11n SDM Diversity – Ch.40 (N), with host PC and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.188	FINAL	—	35.11	54.11	-19.01	N	GND
0.188	FINAL	50.1	—	64.11	-14.00	N	GND
0.314	FINAL	—	27.84	49.86	-22.02	N	GND
0.314	FINAL	40.7	—	59.86	-19.20	N	GND
0.638	FINAL	—	20.46	46.00	-25.54	N	GND
0.638	FINAL	33.6	—	56.00	-22.41	N	GND
2.999	FINAL	28.4	—	56.00	-27.59	N	GND
2.999	FINAL	—	18.74	46.00	-27.26	N	GND
8.102	FINAL	22.7	—	60.00	-37.26	N	GND
8.102	FINAL	—	12.18	50.00	-37.82	N	GND
24.002	FINAL	—	17.47	50.00	-32.53	N	GND
24.002	FINAL	23.7	—	60.00	-36.27	N	GND

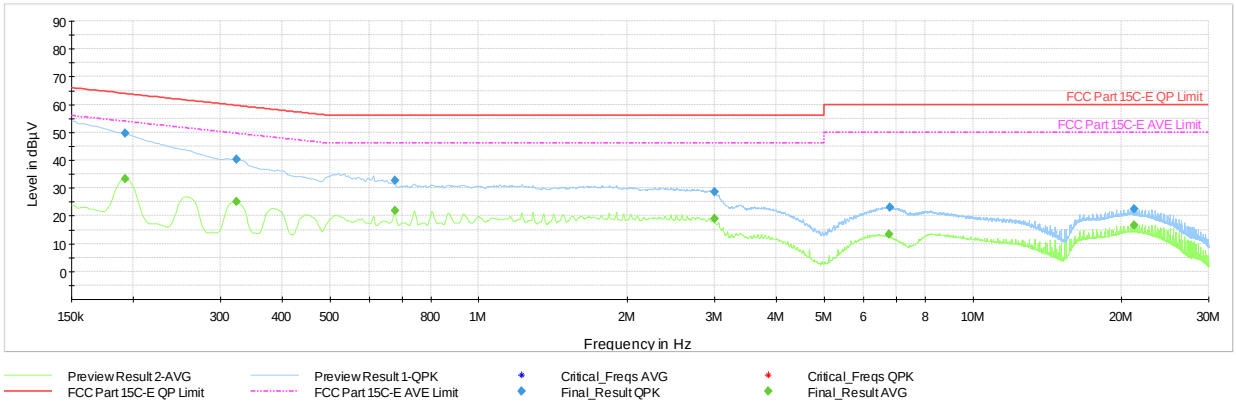
Table 7-377. AC Line Conducted Data with 802.11n SDM Diversity – Ch.40 (N), with host PC and USB-C cable



Plot 7-2012. AC Line Conducted Plot with 802.11ax(SU) SDM Diversity – Ch.40 (L1), with host PC and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.191	FINAL	—	33.05	54.02	-20.96	L1	GND
0.191	FINAL	49.5	—	64.02	-14.51	L1	GND
0.380	FINAL	—	21.80	48.29	-26.49	L1	GND
0.380	FINAL	36.3	—	58.29	-21.97	L1	GND
0.611	FINAL	—	19.92	46.00	-26.08	L1	GND
0.611	FINAL	33.8	—	56.00	-22.25	L1	GND
1.898	FINAL	29.3	—	56.00	-26.70	L1	GND
1.898	FINAL	—	19.93	46.00	-26.07	L1	GND
8.052	FINAL	22.5	—	60.00	-37.55	L1	GND
8.052	FINAL	—	12.09	50.00	-37.91	L1	GND
23.001	FINAL	—	18.06	50.00	-31.94	L1	GND
23.001	FINAL	24.4	—	60.00	-35.56	L1	GND

Table 7-378. AC Line Conducted Data with 802.11ax(SU) SDM Diversity – Ch.40 (L1), with host PC and USB-C cable



Plot 7-2013. AC Line Conducted Plot with 802.11ax(SU) SDM Diversity – Ch.40 (N), with host PC and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.193	FINAL	—	33.36	53.92	-20.56	N	GND
0.193	FINAL	49.5	—	63.92	-14.37	N	GND
0.323	FINAL	—	25.10	49.62	-24.53	N	GND
0.323	FINAL	40.3	—	59.62	-19.37	N	GND
0.677	FINAL	32.8	—	56.00	-23.18	N	GND
0.677	FINAL	—	21.78	46.00	-24.22	N	GND
2.996	FINAL	28.6	—	56.00	-27.38	N	GND
2.996	FINAL	—	18.91	46.00	-27.09	N	GND
6.779	FINAL	—	13.43	50.00	-36.57	N	GND
6.783	FINAL	23.1	—	60.00	-36.90	N	GND
21.224	FINAL	—	16.69	50.00	-33.31	N	GND
21.224	FINAL	22.4	—	60.00	-37.57	N	GND

Table 7-379. AC Line Conducted Data with 802.11ax(SU) SDM Diversity – Ch.40 (N), with host PC and USB-C cable

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2995** and **IC: 579C-A2995** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.