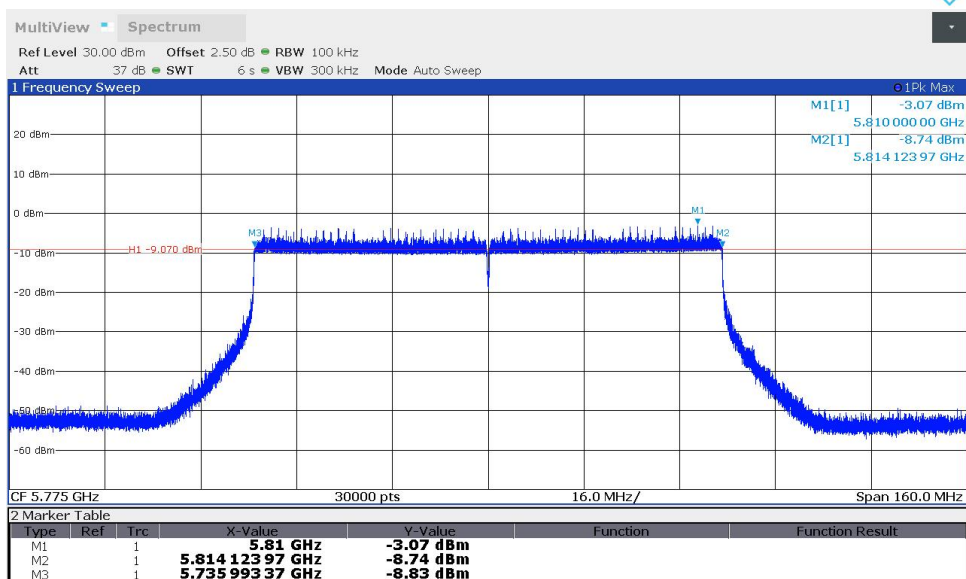
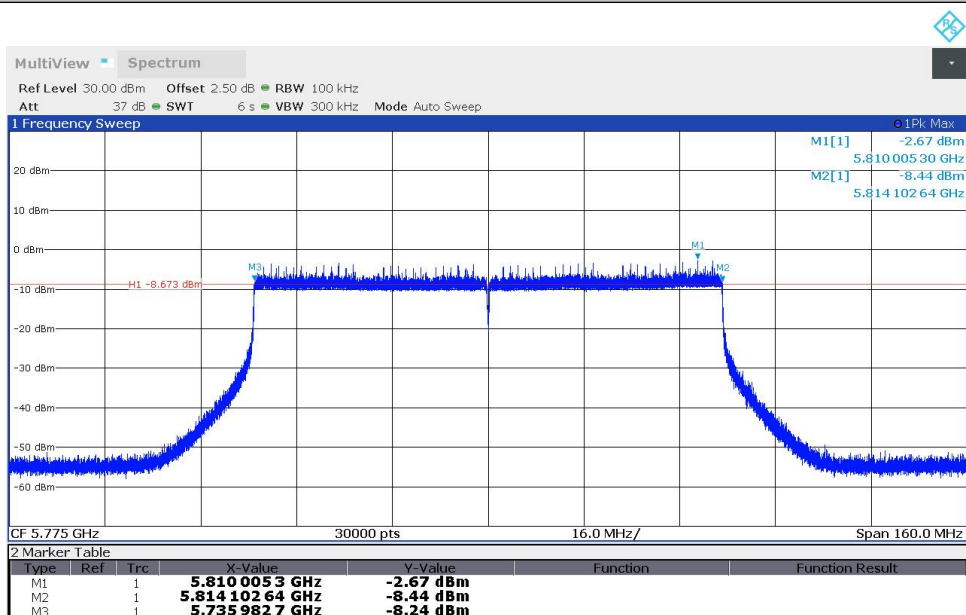




11AX80MIMO_Ant1_5775



Conclusion: PASS

A.5. Radiated Unwanted Emission

A.5.1 Limits

Unwanted Emissions in the unrestricted bands shall not exceed the limits that shown in 15.407:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: Increasing linearly from point to point.	

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

Frequency (MHz)	Field strength(μ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength (μ V/m)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor (as defined in KDB 789033 II.G.2.d).

A.5.2 Test setup

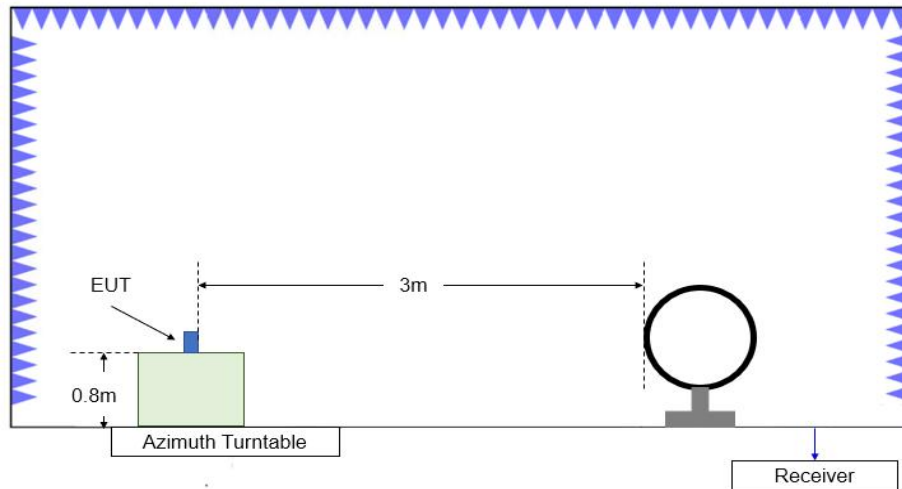


Figure A.5.1. Test Site Diagram (9kHz-30MHz)

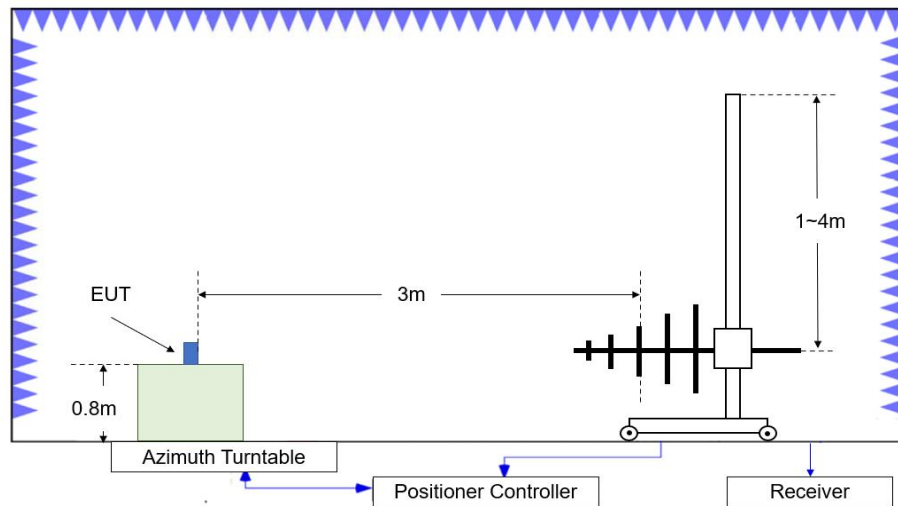


Figure A.5.2. Test Site Diagram (30MHz-1GHz)

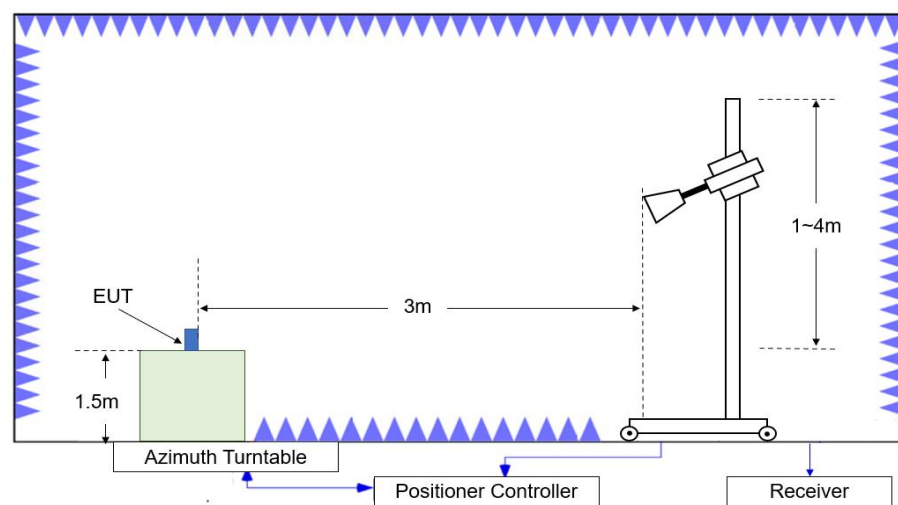


Figure A.5.3. Test Site Diagram (1GHz-40GHz)

A.5.3 Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10 and KDB 789033 D02 v02r01.

Test setting

Frequency of emission (MHz)	RBW/VBW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz
26500-40000	1MHz/3MHz

A.5.4 Calculation

1. The measurement results reported below is calculated by:

Measurement Results (dBμV/m) = $P_{\text{measurement}}$ (dBμV) + Cable Loss(dB) + Antenna Factor (dB/m)

Where: $P_{\text{measurement}}$ is the field strength recorded from the instrument

2. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log(D) + 104.77$$

Where:

E is the field strength in dBμV/m

D is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dBm

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept.
5. EUT in each of three orthogonal axis emissions had been tested out only the worst case (axis data) recorded in the report.
6. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.
7. No spurious emissions were detected within 20dB of the limit below 30MHz. OFS and semi-chamber comparison testing had been performed and the result came out very similar. (KDB 414788)
8. Both full RU and partial RU spurious emission was tested. And the results are basically noises with no suspicious emission. In this case, the measurement results of full RU were reported and represented worst cases.

9. The EUT support both SISO and MIMO, only the worst cases(MIMO) were reported.

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

Conclusion: PASS

Average Results:

802.11a

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.900	40.81	-29.59	45.95	24.45	54.00	13.19	H
17970.850	40.71	-29.59	45.95	24.35	54.00	13.29	V
8047.750	37.38	-34.89	36.90	35.37	54.00	16.62	V
8038.400	36.91	-34.89	36.90	34.90	54.00	17.09	H
14494.850	36.46	-29.56	41.90	24.12	54.00	17.54	V
14499.250	36.28	-29.56	41.90	23.94	54.00	17.72	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.350	40.72	-29.59	45.95	24.36	54.00	13.28	H
17992.850	40.69	-29.59	45.95	24.33	54.00	13.31	H
8103.300	37.68	-35.06	36.90	35.84	54.00	16.32	V
8097.800	37.65	-35.06	36.90	35.81	54.00	16.35	V
14499.250	36.66	-29.56	41.90	24.32	54.00	17.34	V
14496.500	36.24	-29.56	41.90	23.90	54.00	17.76	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.700	41.02	-29.59	45.95	24.66	54.00	12.98	V
17981.300	40.91	-29.59	45.95	24.55	54.00	13.09	H
8152.250	37.71	-34.82	37.00	35.53	54.00	16.29	V
8159.400	37.16	-34.82	37.00	34.98	54.00	16.84	H
14499.250	36.57	-29.56	41.90	24.23	54.00	17.43	H
14493.200	36.37	-29.56	41.90	24.03	54.00	17.63	V

802.11n-HT20
Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17968.100	40.83	-29.59	45.95	24.47	54.00	13.17	V
17993.950	40.78	-29.59	45.95	24.42	54.00	13.22	V
8044.450	37.25	-34.89	36.90	35.24	54.00	16.75	V
8043.900	37.24	-34.89	36.90	35.23	54.00	16.76	V
14499.800	36.13	-29.56	41.90	23.79	54.00	17.87	H
14476.150	36.10	-29.56	41.90	23.76	54.00	17.90	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	40.85	-29.59	45.95	24.49	54.00	13.15	V
17995.050	40.72	-29.59	45.95	24.36	54.00	13.28	V
8095.600	38.02	-35.06	36.90	36.18	54.00	15.98	V
8097.250	37.97	-35.06	36.90	36.13	54.00	16.03	H
14495.950	36.33	-29.56	41.90	23.99	54.00	17.67	V
13296.950	36.30	-31.40	40.60	27.10	54.00	17.70	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.900	41.06	-29.59	45.95	24.70	54.00	12.94	H
17998.350	40.95	-29.59	45.95	24.59	54.00	13.05	V
8158.300	37.50	-34.82	37.00	35.32	54.00	16.50	V
8152.800	36.95	-34.82	37.00	34.77	54.00	17.05	H
14483.300	36.40	-29.56	41.90	24.06	54.00	17.60	H
14489.350	36.40	-29.56	41.90	24.06	54.00	17.60	H

802.11n-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.350	41.10	-29.59	45.95	24.74	54.00	12.90	V
17980.200	41.08	-29.59	45.95	24.72	54.00	12.92	V
14491.000	37.08	-29.56	41.90	24.74	54.00	16.92	H
14486.050	36.75	-29.56	41.90	24.41	54.00	17.25	V
8052.700	35.99	-34.89	36.90	33.98	54.00	18.01	H
8041.700	35.75	-34.89	36.90	33.74	54.00	18.25	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.100	41.34	-29.59	45.95	24.98	54.00	12.66	V
17989.550	40.86	-29.59	45.95	24.50	54.00	13.14	V
14495.950	36.93	-29.56	41.90	24.59	54.00	17.07	V
14470.100	36.86	-29.56	41.90	24.52	54.00	17.14	H
11860.900	35.66	-32.73	39.15	29.24	54.00	18.34	H
8098.900	35.63	-35.06	36.90	33.79	54.00	18.37	H

802.11ac-VHT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.300	40.96	-29.59	45.95	24.60	54.00	13.04	H
17985.700	40.66	-29.59	45.95	24.30	54.00	13.34	V
14498.150	36.47	-29.56	41.90	24.13	54.00	17.53	H
8051.050	36.41	-34.89	36.90	34.40	54.00	17.59	V
14487.700	36.24	-29.56	41.90	23.90	54.00	17.76	H
8035.100	36.23	-34.89	36.90	34.22	54.00	17.77	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.950	40.86	-29.59	45.95	24.50	54.00	13.14	H
17995.600	40.77	-29.59	45.95	24.41	54.00	13.23	H
8092.850	36.79	-35.06	36.90	34.95	54.00	17.21	H
8090.650	36.72	-35.06	36.90	34.88	54.00	17.28	V
14476.700	36.40	-29.56	41.90	24.06	54.00	17.60	V
14499.250	36.37	-29.56	41.90	24.03	54.00	17.63	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	41.09	-29.59	45.95	24.73	54.00	12.91	H
17994.500	40.90	-29.59	45.95	24.54	54.00	13.10	H
14483.300	36.45	-29.56	41.90	24.11	54.00	17.55	V
14499.800	36.38	-29.56	41.90	24.04	54.00	17.62	H
8155.550	36.27	-34.82	37.00	34.09	54.00	17.73	V
8162.700	36.14	-34.82	37.00	33.96	54.00	17.86	H

802.11ac-VHT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17961.500	41.07	-29.59	45.95	24.71	54.00	12.93	H
17996.150	41.01	-29.59	45.95	24.65	54.00	12.99	H
14486.050	36.71	-29.56	41.90	24.37	54.00	17.29	V
14493.200	36.69	-29.56	41.90	24.35	54.00	17.31	H
11279.000	35.67	-32.99	38.65	30.01	54.00	18.33	H
11848.250	35.55	-32.73	39.15	29.13	54.00	18.45	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	40.96	-29.59	45.95	24.60	54.00	13.04	H
17995.050	40.95	-29.59	45.95	24.59	54.00	13.05	H
14495.950	36.95	-29.56	41.90	24.61	54.00	17.05	V
14497.050	36.71	-29.56	41.90	24.37	54.00	17.29	V
11864.200	35.84	-32.73	39.15	29.42	54.00	18.16	V
11294.950	35.65	-32.41	38.70	29.36	54.00	18.35	H

802.11ac-VHT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.000	41.07	-29.59	45.95	24.71	54.00	12.93	H
17996.700	41.03	-29.59	45.95	24.67	54.00	12.97	H
14499.800	36.94	-29.56	41.90	24.60	54.00	17.06	V
14493.200	36.79	-29.56	41.90	24.45	54.00	17.21	H
11783.350	35.89	-32.09	39.20	28.78	54.00	18.11	V
10861.000	35.83	-33.07	38.50	30.40	54.00	18.17	V

802.11ax-HT20 full RU

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17939.500	41.02	-29.59	45.95	24.66	54.00	12.98	V
17978.000	40.91	-29.59	45.95	24.55	54.00	13.09	H
14498.150	36.19	-29.56	41.90	23.85	54.00	17.81	V
14493.750	36.17	-29.56	41.90	23.83	54.00	17.83	V
11388.450	35.53	-32.58	39.00	29.11	54.00	18.47	V
8051.050	35.48	-34.89	36.90	33.47	54.00	18.52	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.350	40.96	-29.59	45.95	24.60	54.00	13.04	H
17987.900	40.91	-29.59	45.95	24.55	54.00	13.09	V
14499.800	36.46	-29.56	41.90	24.12	54.00	17.54	H
14496.500	36.37	-29.56	41.90	24.03	54.00	17.63	V
8091.200	36.29	-35.06	36.90	34.45	54.00	17.71	V
8100.550	36.14	-35.06	36.90	34.30	54.00	17.86	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.900	40.80	-29.59	45.95	24.44	54.00	13.20	H
17996.700	40.80	-29.59	45.95	24.44	54.00	13.20	V
14497.050	36.46	-29.56	41.90	24.12	54.00	17.54	H
14483.850	36.43	-29.56	41.90	24.09	54.00	17.57	V
8150.600	36.27	-34.82	37.00	34.09	54.00	17.73	H
8156.100	35.79	-34.82	37.00	33.61	54.00	18.21	H

802.11ax-HT40 full RU

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.350	40.93	-29.59	45.95	24.57	54.00	13.07	H
17997.250	40.83	-29.59	45.95	24.47	54.00	13.17	H
14484.950	36.66	-29.56	41.90	24.32	54.00	17.34	H
14496.500	36.65	-29.56	41.90	24.31	54.00	17.35	V
10854.400	35.64	-33.07	38.50	30.21	54.00	18.36	H
11865.850	35.62	-32.73	39.15	29.20	54.00	18.38	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.900	41.21	-29.59	45.95	24.85	54.00	12.79	V
17997.800	41.09	-29.59	45.95	24.73	54.00	12.91	V
14481.650	36.78	-29.56	41.90	24.44	54.00	17.22	V
14493.200	36.66	-29.56	41.90	24.32	54.00	17.34	V
11397.250	35.55	-32.58	39.00	29.13	54.00	18.45	V
11871.900	35.49	-32.73	39.15	29.07	54.00	18.51	V

802.11ax-HT80 full RU

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.400	41.57	-29.59	45.95	25.21	54.00	12.43	V
17993.950	41.04	-29.59	45.95	24.68	54.00	12.96	H
14494.300	36.70	-29.56	41.90	24.36	54.00	17.30	H
14497.600	36.67	-29.56	41.90	24.33	54.00	17.33	V
11859.250	35.76	-32.73	39.15	29.34	54.00	18.24	V
11865.300	35.75	-32.73	39.15	29.33	54.00	18.25	V

802.11be-HT20 full RU

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	40.59	-29.59	45.95	24.23	54.00	13.41	H
17997.250	40.57	-29.59	45.95	24.21	54.00	13.43	H
14493.750	36.14	-29.56	41.90	23.80	54.00	17.86	V
14497.600	36.06	-29.56	41.90	23.72	54.00	17.94	V
8034.550	35.71	-34.89	36.90	33.70	54.00	18.29	H
8050.500	35.44	-34.89	36.90	33.43	54.00	18.56	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17968.650	40.81	-29.59	45.95	24.45	54.00	13.19	V
17998.900	40.81	-29.59	45.95	24.45	54.00	13.19	V
8092.850	36.86	-35.06	36.90	35.02	54.00	17.14	H
13296.400	36.69	-31.40	40.60	27.49	54.00	17.31	V
14496.500	36.66	-29.56	41.90	24.32	54.00	17.34	V
8093.950	36.39	-35.06	36.90	34.55	54.00	17.61	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.700	40.91	-29.59	45.95	24.55	54.00	13.09	H
17995.050	40.84	-29.59	45.95	24.48	54.00	13.16	H
14492.650	36.69	-29.56	41.90	24.35	54.00	17.31	V
13296.400	36.42	-31.40	40.60	27.22	54.00	17.58	V
8150.050	36.27	-34.82	37.00	34.09	54.00	17.73	V
8159.400	35.93	-34.82	37.00	33.75	54.00	18.07	V

802.11be-HT40 full RU

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	41.02	-29.59	45.95	24.66	54.00	12.98	V
17989.000	40.98	-29.59	45.95	24.62	54.00	13.02	H
14474.500	36.68	-29.56	41.90	24.34	54.00	17.32	V
14497.600	36.67	-29.56	41.90	24.33	54.00	17.33	V
10865.400	35.60	-33.07	38.50	30.17	54.00	18.40	V
11785.000	35.59	-32.09	39.20	28.48	54.00	18.41	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.950	41.04	-29.59	45.95	24.68	54.00	12.96	V
17985.150	40.98	-29.59	45.95	24.62	54.00	13.02	V
14496.500	36.69	-29.56	41.90	24.35	54.00	17.31	V
14472.300	36.59	-29.56	41.90	24.25	54.00	17.41	V
8102.750	35.94	-35.06	36.90	34.10	54.00	18.06	H
11884.550	35.62	-32.53	39.10	29.05	54.00	18.38	V

802.11be-HT80 full RU

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	41.14	-29.59	45.95	24.78	54.00	12.86	H
17968.650	41.08	-29.59	45.95	24.72	54.00	12.92	H
13306.300	37.19	-31.40	40.60	27.99	54.00	16.81	V
14498.700	37.12	-29.56	41.90	24.78	54.00	16.88	V
11401.100	35.95	-32.58	39.00	29.53	54.00	18.05	V
10858.800	35.87	-33.07	38.50	30.44	54.00	18.13	V

Peak Results:

802.11a

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17478.050	51.39	-29.07	44.55	35.91	68.20	16.81	V
17538.000	51.36	-29.39	44.90	35.86	68.20	16.84	V
13600.000	49.22	-31.27	40.80	39.69	68.20	18.98	H
14097.200	48.94	-30.20	41.70	37.44	68.20	19.26	V
8042.250	46.95	-34.89	36.90	44.94	74.00	27.05	V
11863.100	46.73	-32.73	39.15	40.31	74.00	27.27	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17581.450	51.79	-29.60	45.15	36.24	68.20	16.41	V
17998.900	51.63	-29.59	45.95	35.27	74.00	22.37	H
14224.800	49.40	-30.75	41.75	38.40	68.20	18.80	H
13814.500	49.01	-30.20	41.25	37.96	68.20	19.19	V
10869.800	46.88	-33.07	38.50	41.45	74.00	27.12	V
8093.400	46.71	-35.06	36.90	44.87	74.00	27.29	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17596.850	51.74	-29.60	45.15	36.19	68.20	16.46	H
17578.150	51.59	-29.60	45.15	36.04	68.20	16.61	V
13696.250	49.55	-30.98	41.00	39.53	68.20	18.65	V
13736.400	49.39	-31.18	41.10	39.47	68.20	18.81	V
11271.850	46.61	-32.99	38.65	40.95	74.00	27.39	V
10845.050	46.22	-33.07	38.50	40.79	74.00	27.78	V

802.11n-HT20
Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17522.050	51.86	-29.07	44.55	36.38	68.20	16.34	H
17943.900	51.59	-29.59	45.95	35.23	74.00	22.41	H
13691.300	48.71	-30.98	41.00	38.69	68.20	19.49	H
14215.450	48.70	-30.75	41.75	37.70	68.20	19.50	H
8049.400	46.53	-34.89	36.90	44.52	74.00	27.47	H
11839.450	46.16	-32.73	39.15	39.74	74.00	27.84	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.100	52.10	-29.59	45.95	35.74	74.00	21.90	H
17993.950	51.88	-29.59	45.95	35.52	74.00	22.12	H
13743.000	48.86	-31.18	41.10	38.94	68.20	19.34	H
13739.150	48.83	-31.18	41.10	38.91	68.20	19.37	H
8097.800	47.47	-35.06	36.90	45.63	74.00	26.53	H
8102.750	47.41	-35.06	36.90	45.57	74.00	26.59	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17918.600	51.44	-29.59	45.95	35.08	74.00	22.56	H
17387.300	51.40	-29.44	43.80	37.04	68.20	16.80	V
13696.250	49.70	-30.98	41.00	39.68	68.20	18.50	H
14091.150	49.07	-30.20	41.70	37.57	68.20	19.13	H
8157.750	47.84	-34.82	37.00	45.66	74.00	26.16	V
8158.850	47.16	-34.82	37.00	44.98	74.00	26.84	H

802.11n-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.750	51.75	-29.59	45.95	35.39	74.00	22.25	H
17569.900	51.73	-29.39	44.90	36.23	68.20	16.47	H
13740.800	49.19	-31.18	41.10	39.27	68.20	19.01	V
13607.700	49.18	-31.27	40.80	39.65	68.20	19.02	V
11873.000	46.76	-32.73	39.15	40.34	74.00	27.24	H
10967.150	46.74	-33.13	38.55	41.32	74.00	27.26	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17406.000	52.56	-29.44	43.80	38.20	68.20	15.64	V
17518.750	52.31	-29.07	44.55	36.83	68.20	15.89	H
13741.350	50.50	-31.18	41.10	40.58	68.20	17.70	V
13734.200	49.45	-31.18	41.10	39.53	68.20	18.75	H
10862.100	46.93	-33.07	38.50	41.50	74.00	27.07	H
11382.400	46.85	-33.31	38.85	41.31	74.00	27.15	H

802.11ac-VHT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.200	51.79	-29.59	45.95	35.43	74.00	22.21	V
17960.950	51.66	-29.59	45.95	35.30	74.00	22.34	H
13655.550	48.83	-31.29	40.90	39.22	68.20	19.37	H
13757.300	48.62	-31.18	41.10	38.70	68.20	19.58	H
11865.300	46.92	-32.73	39.15	40.50	74.00	27.08	V
8039.500	46.22	-34.89	36.90	44.21	74.00	27.78	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.450	51.96	-29.59	45.95	35.60	74.00	22.04	H
17994.500	51.81	-29.59	45.95	35.45	74.00	22.19	H
13742.450	49.05	-31.18	41.10	39.13	68.20	19.15	V
13579.100	48.82	-31.27	40.80	39.29	68.20	19.38	H
8097.250	47.00	-35.06	36.90	45.16	74.00	27.00	H
8090.100	46.83	-35.06	36.90	44.99	74.00	27.17	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.250	52.54	-29.59	45.95	36.18	74.00	21.46	V
17480.800	51.82	-29.07	44.55	36.34	68.20	16.38	H
13699.550	49.47	-30.98	41.00	39.45	68.20	18.73	H
13748.500	49.44	-31.18	41.10	39.52	68.20	18.76	V
11769.050	47.29	-32.71	39.20	40.80	74.00	26.71	H
11387.350	46.66	-32.58	39.00	40.24	74.00	27.34	V

802.11ac-VHT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17601.250	52.38	-29.60	45.15	36.83	68.20	15.82	V
17976.350	51.89	-29.59	45.95	35.53	74.00	22.11	V
13700.100	49.69	-30.98	41.00	39.67	68.20	18.51	H
13668.200	49.37	-30.98	41.00	39.35	68.20	18.83	H
11709.650	46.65	-32.70	39.20	40.15	74.00	27.35	V
11200.900	46.64	-32.42	38.60	40.46	74.00	27.36	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17507.200	51.88	-29.07	44.55	36.40	68.20	16.32	H
17967.550	51.87	-29.59	45.95	35.51	74.00	22.13	V
13738.050	49.05	-31.18	41.10	39.13	68.20	19.15	H
14200.600	48.97	-30.42	41.70	37.69	68.20	19.23	H
11364.250	47.11	-33.31	38.85	41.57	74.00	26.89	H
11292.750	46.88	-32.41	38.70	40.59	74.00	27.12	H

802.11ac-VHT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17596.300	52.48	-29.60	45.15	36.93	68.20	15.72	V
17956.550	52.20	-29.59	45.95	35.84	74.00	21.80	V
14057.050	49.48	-31.31	41.60	39.19	68.20	18.72	V
13728.150	49.44	-31.18	41.10	39.52	68.20	18.76	H
10454.550	47.03	-33.87	38.20	42.70	68.20	21.17	H
11640.350	46.93	-32.62	39.20	40.35	74.00	27.07	V

802.11ax-HT20 full RU

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.150	51.70	-29.59	45.95	35.34	74.00	22.30	V
17628.200	51.33	-29.60	45.40	35.53	68.20	16.87	V
13664.900	48.98	-30.98	41.00	38.96	68.20	19.22	V
14099.950	48.97	-30.20	41.70	37.47	68.20	19.23	H
8037.850	46.26	-34.89	36.90	44.25	74.00	27.74	H
11882.900	46.08	-32.53	39.10	39.51	74.00	27.92	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17630.400	51.76	-29.60	45.40	35.96	68.20	16.44	H
17590.250	51.72	-29.60	45.15	36.17	68.20	16.48	V
13691.850	48.93	-30.98	41.00	38.91	68.20	19.27	V
13767.200	48.84	-30.98	41.20	38.62	68.20	19.36	V
8100.550	47.73	-35.06	36.90	45.89	74.00	26.27	V
11392.300	46.96	-32.58	39.00	40.54	74.00	27.04	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17652.950	51.81	-29.60	45.40	36.01	68.20	16.39	H
17986.250	51.51	-29.59	45.95	35.15	74.00	22.49	H
14095.000	49.11	-30.20	41.70	37.61	68.20	19.09	V
13728.150	48.94	-31.18	41.10	39.02	68.20	19.26	H
11250.400	47.16	-32.99	38.65	41.50	74.00	26.84	H
8161.600	46.51	-34.82	37.00	44.33	74.00	27.49	V

802.11ax-HT40 full RU

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17796.500	51.94	-29.59	45.95	35.58	74.00	22.06	V
17607.850	51.86	-29.60	45.15	36.31	68.20	16.34	H
13696.250	49.19	-30.98	41.00	39.17	68.20	19.01	V
14193.450	49.12	-30.42	41.70	37.84	68.20	19.08	H
11389.550	47.23	-32.58	39.00	40.81	74.00	26.77	V
11776.750	46.94	-32.71	39.20	40.45	74.00	27.06	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17928.500	52.56	-29.59	45.95	36.20	74.00	21.44	H
17528.100	51.92	-29.39	44.90	36.42	68.20	16.28	V
13720.450	49.61	-31.18	41.10	39.69	68.20	18.59	H
13694.600	49.21	-30.98	41.00	39.19	68.20	18.99	H
11370.850	47.41	-33.31	38.85	41.87	74.00	26.59	V
11155.800	47.09	-32.61	38.60	41.10	74.00	26.91	V

802.11ax-HT80 full RU

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.850	52.29	-29.59	45.95	35.93	74.00	21.71	V
17992.850	52.03	-29.59	45.95	35.67	74.00	21.97	H
13725.400	49.94	-31.18	41.10	40.02	68.20	18.26	V
13708.900	49.59	-30.98	41.00	39.57	68.20	18.61	V
10785.650	47.45	-32.42	38.45	41.42	74.00	26.55	H
8596.100	47.01	-34.87	37.50	44.38	68.20	21.19	H

802.11be-HT20 full RU

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.200	52.01	-29.59	45.95	35.65	74.00	21.99	V
17985.150	51.73	-29.59	45.95	35.37	74.00	22.27	H
13698.450	49.26	-30.98	41.00	39.24	68.20	18.94	H
14071.900	48.80	-30.20	41.70	37.30	68.20	19.40	V
11368.650	46.18	-33.31	38.85	40.64	74.00	27.82	H
11759.150	45.97	-32.71	39.20	39.48	74.00	28.03	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17948.850	51.99	-29.59	45.95	35.63	74.00	22.01	H
17991.200	51.86	-29.59	45.95	35.50	74.00	22.14	V
14100.500	49.81	-30.20	41.70	38.31	68.20	18.39	H
13747.400	49.19	-31.18	41.10	39.27	68.20	19.01	V
8096.150	46.56	-35.06	36.90	44.72	74.00	27.44	V
8100.000	46.50	-35.06	36.90	44.66	74.00	27.50	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17925.200	52.11	-29.59	45.95	35.75	74.00	21.89	H
17998.900	51.91	-29.59	45.95	35.55	74.00	22.09	H
13721.550	49.46	-31.18	41.10	39.54	68.20	18.74	V
13600.550	49.35	-31.27	40.80	39.82	68.20	18.85	V
11314.200	46.86	-32.41	38.70	40.57	74.00	27.14	H
11967.050	46.79	-32.42	39.05	40.16	74.00	27.21	H

802.11be-HT40 full RU

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17639.750	52.74	-29.60	45.40	36.94	68.20	15.46	H
17596.300	52.54	-29.60	45.15	36.99	68.20	15.66	H
13804.600	50.02	-30.98	41.20	39.80	68.20	18.18	V
13696.250	49.85	-30.98	41.00	39.83	68.20	18.35	V
10874.750	47.36	-33.07	38.50	41.93	74.00	26.64	V
11907.650	46.73	-32.53	39.10	40.16	74.00	27.27	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.150	52.25	-29.59	45.95	35.89	74.00	21.75	V
17997.800	52.25	-29.59	45.95	35.89	74.00	21.75	H
13711.100	49.98	-30.98	41.00	39.96	68.20	18.22	V
13704.500	49.74	-30.98	41.00	39.72	68.20	18.46	H
11380.200	47.03	-33.31	38.85	41.49	74.00	26.97	H
10873.100	46.78	-33.07	38.50	41.35	74.00	27.22	V

802.11be-HT80 full RU

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.750	52.77	-29.59	45.95	36.41	74.00	21.23	V
17760.750	52.25	-29.47	45.90	35.82	74.00	21.75	V
13700.100	49.32	-30.98	41.00	39.30	68.20	18.88	H
14608.150	49.26	-30.67	41.70	38.23	68.20	18.94	V
8994.300	47.09	-34.57	37.70	43.96	68.20	21.11	H
11277.900	46.83	-32.99	38.65	41.17	74.00	27.17	V

Conclusion: PASS
Band edge compliance

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.1	P
	5825 MHz	Fig.2	P
802.11n HT20	5745 MHz	Fig.3	P
	5825 MHz	Fig.4	P
802.11n HT40	5755 MHz	Fig.5	P
	5795 MHz	Fig.6	P
802.11ac VHT20	5745 MHz	Fig.7	P
	5825 MHz	Fig.8	P
802.11ac VHT40	5755 MHz	Fig.9	P
	5795 MHz	Fig.10	P
802.11ac VHT80	5775 MHz	Fig.11 Fig.12	P
802.11ax HT20 full RU	5745 MHz	Fig.13	P
	5825 MHz	Fig.14	P

802.11ax HT40 full RU	5755 MHz	Fig.15	P
	5795 MHz	Fig.16	P
802.11ax HT80 full RU	5775 MHz	Fig.17 Fig.18	P
802.11ax HT20 partial RU	5745 MHz	Fig.19	P
	5825 MHz	Fig.20	P
802.11ax HT40 partial RU	5755 MHz	Fig.21	P
	5795 MHz	Fig.22	P
802.11ax HT80 partial RU	5775 MHz	Fig.23 Fig.24	P
802.11be HT20 full RU	5745 MHz	Fig.25	P
	5825 MHz	Fig.26	P
802.11be HT40 full RU	5755 MHz	Fig.27	P
	5795 MHz	Fig.28	P
802.11be HT80 full RU	5775 MHz	Fig.29 Fig.30	P
802.11be HT20 partial RU	5745 MHz	Fig.31	P
	5825 MHz	Fig.32	P
802.11be HT40 partial RU	5755 MHz	Fig.33	P
	5795 MHz	Fig.34	P
802.11be HT80 partial RU	5775 MHz	Fig.35 Fig.36	P

Conclusion: PASS

Test graphs as below:

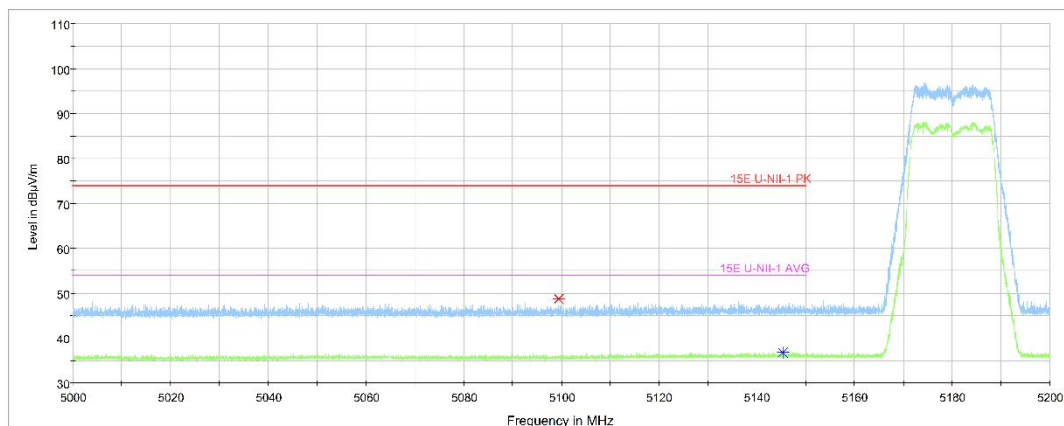


Fig. 1 Band Edges (802.11a Ch149,5745MHz)

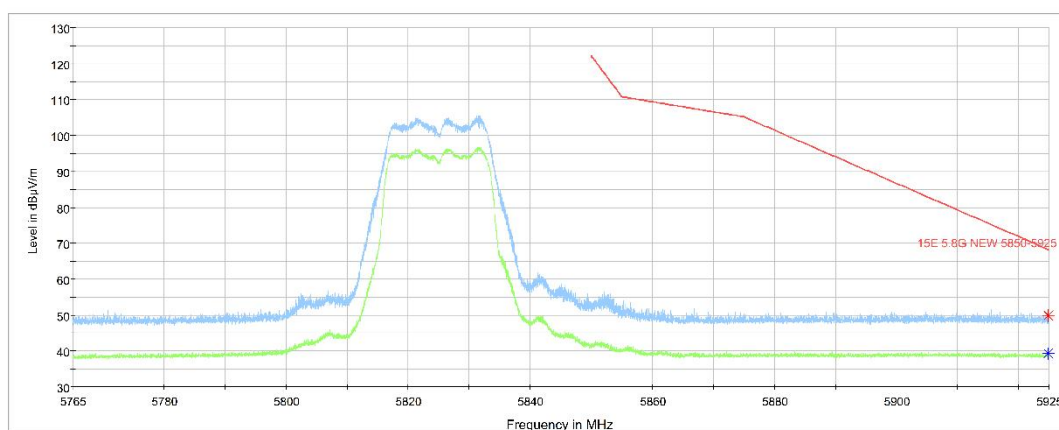


Fig. 2 Band Edges (802.11a Ch165, 5825MHz)

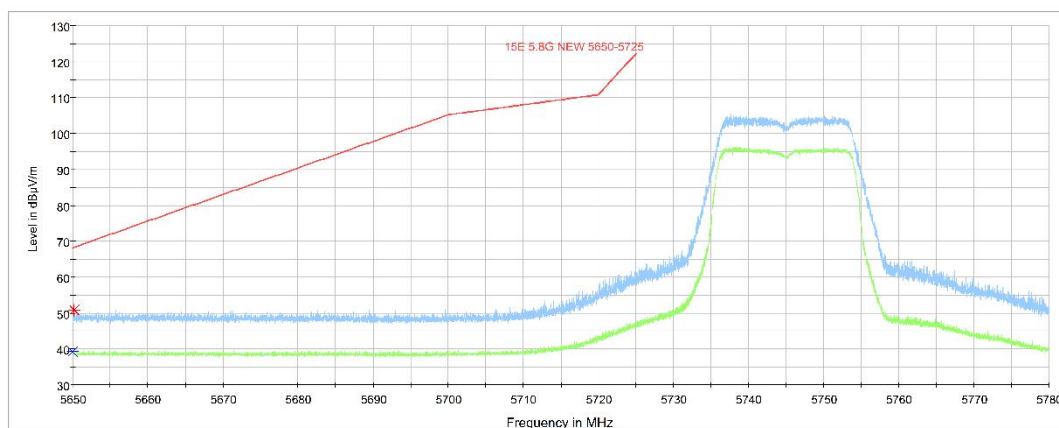


Fig. 3 Band Edges (802.11n-HT20 Ch149, 5745MHz)

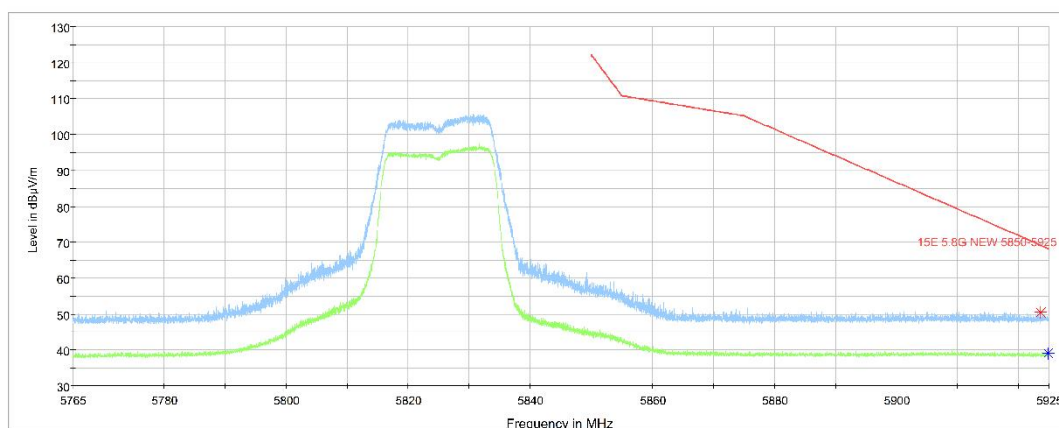


Fig. 4 Band Edges (802.11n-HT20 Ch165, 5825MHz)

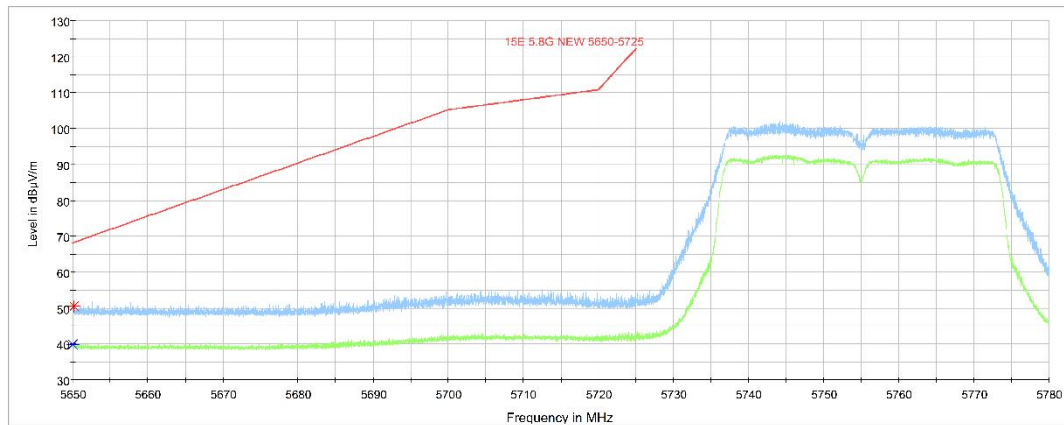


Fig. 5 Band Edges (802.11n-HT40 Ch151, 5755MHz)

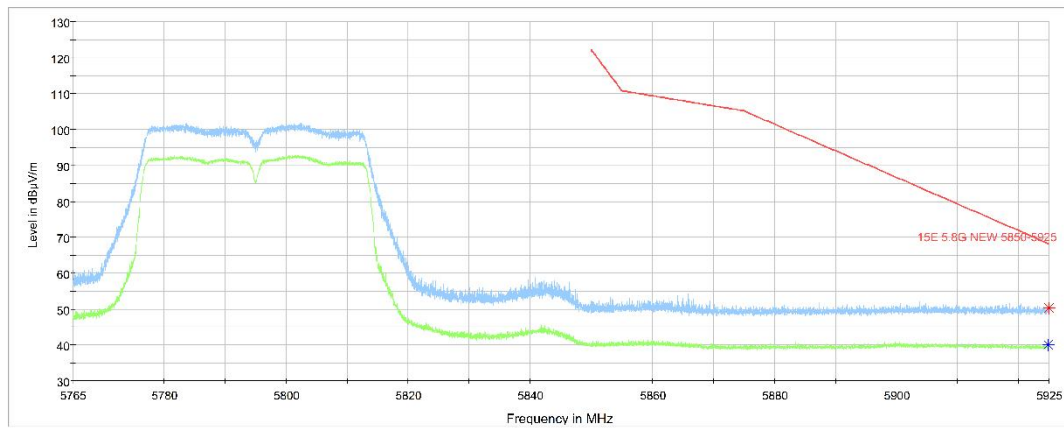


Fig. 6 Band Edges (802.11n-HT40 Ch159, 5795MHz)

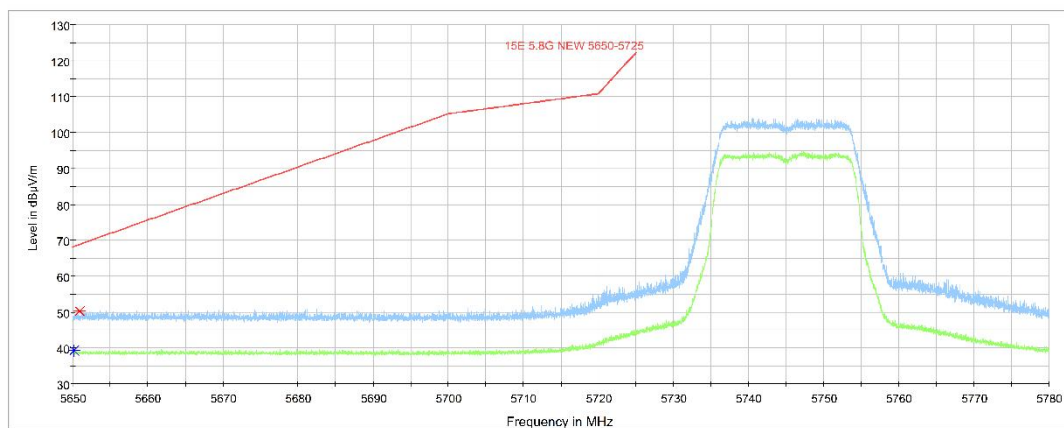


Fig. 7 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

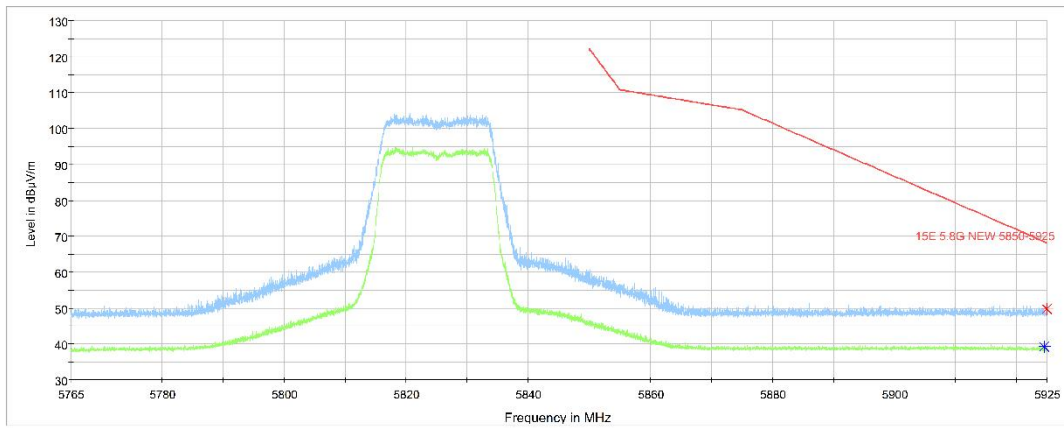


Fig. 8 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

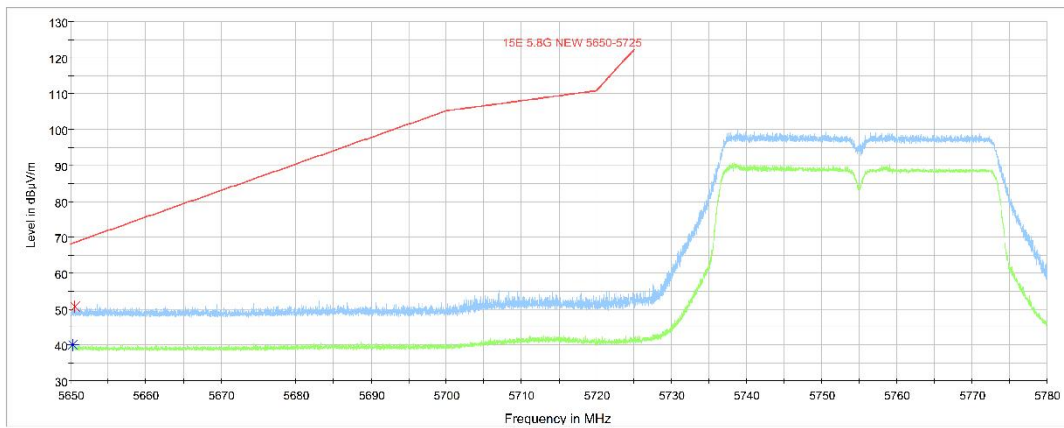


Fig. 9 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

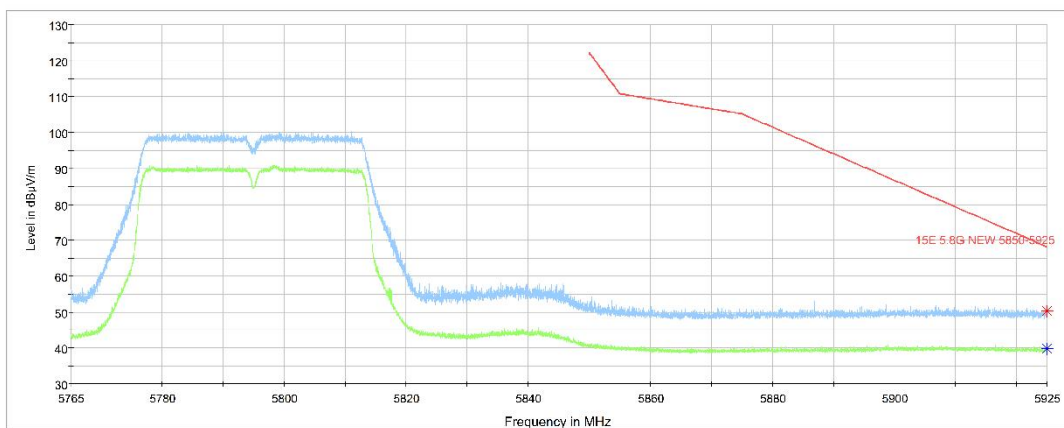


Fig. 10 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

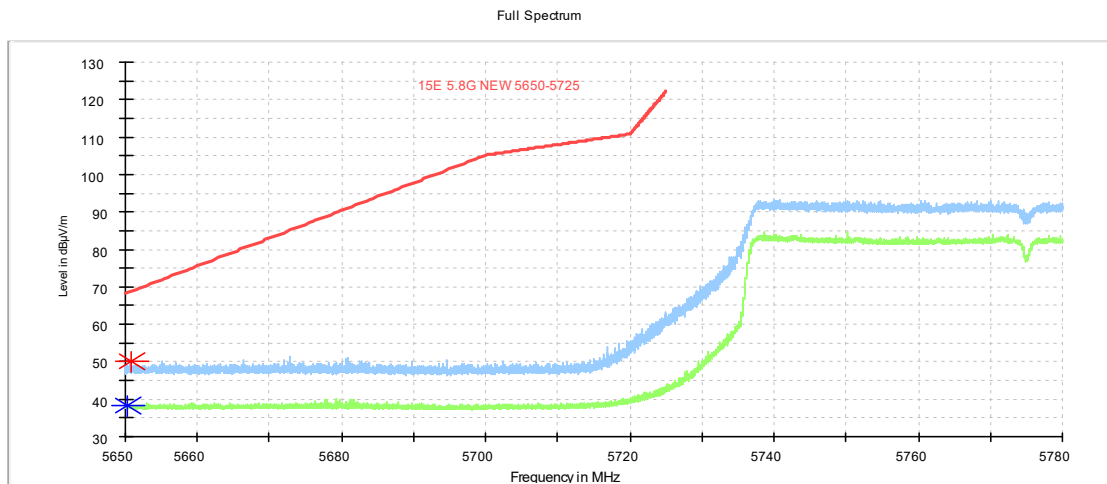


Fig. 11 Band Edges (802.11ac-HT80 Ch155-L, 5775MHz)

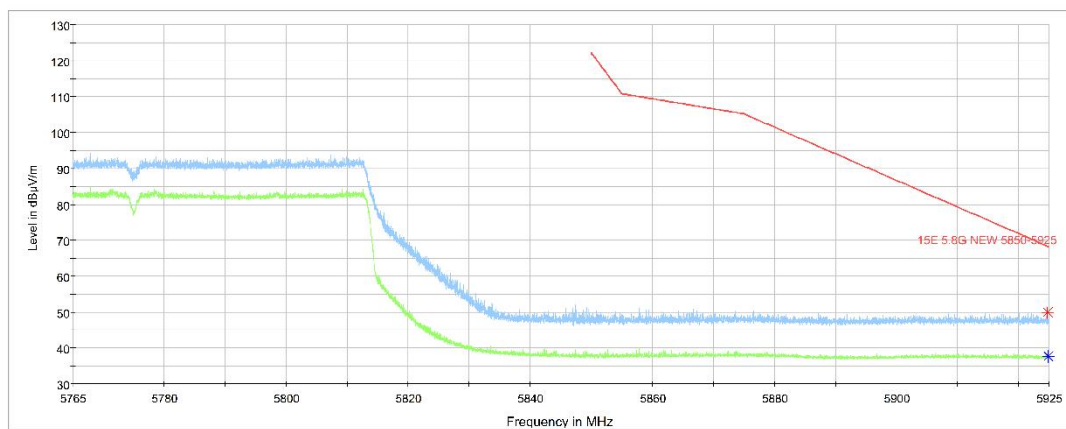


Fig. 12 Band Edges (802.11ac-HT80 Ch155-R, 5775MHz)

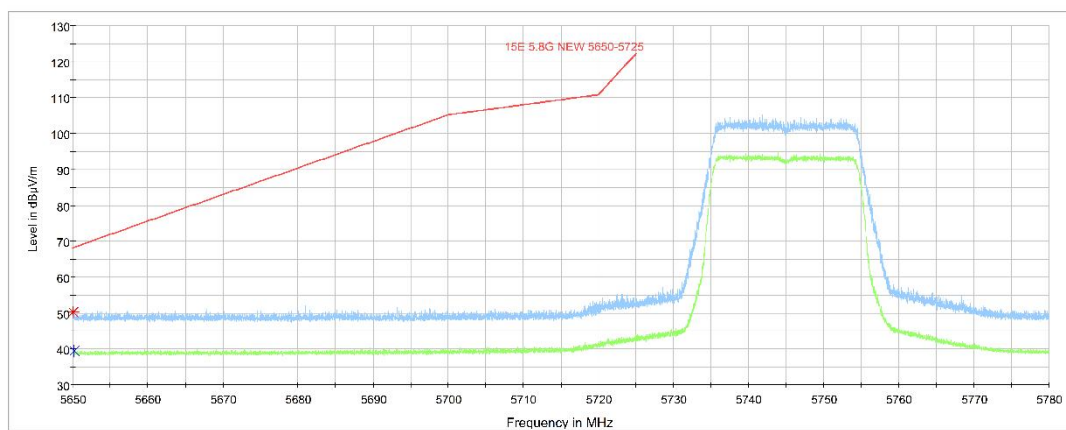


Fig. 13 Band Edges (802.11ax-HT20 Ch149 full RU, 5745MHz)

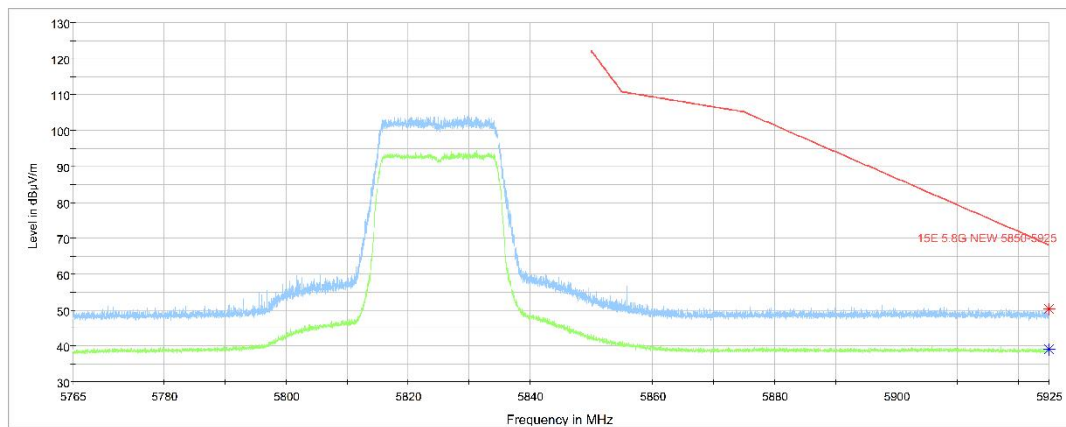


Fig. 14 Band Edges (802.11ax-HT20 Ch165 full RU, 5825MHz)

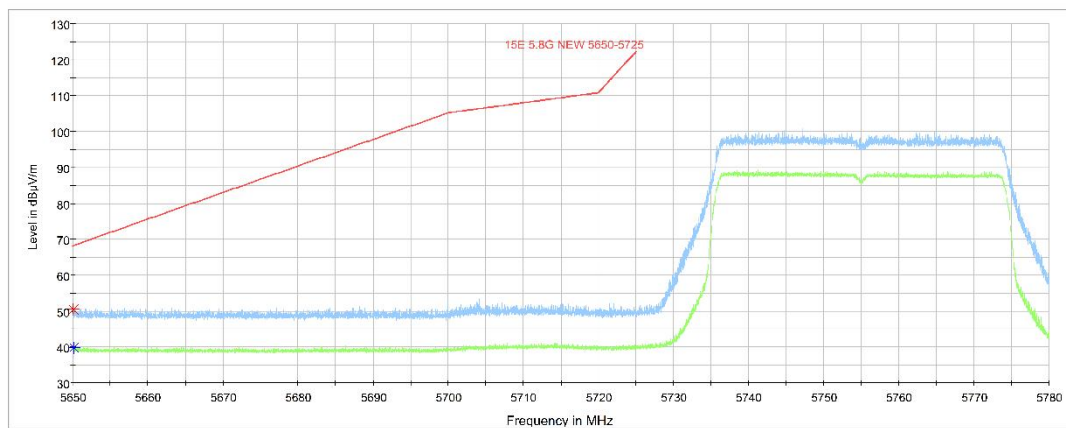


Fig. 15 Band Edges (802.11ax-HT40 Ch151 full RU, 5755MHz)

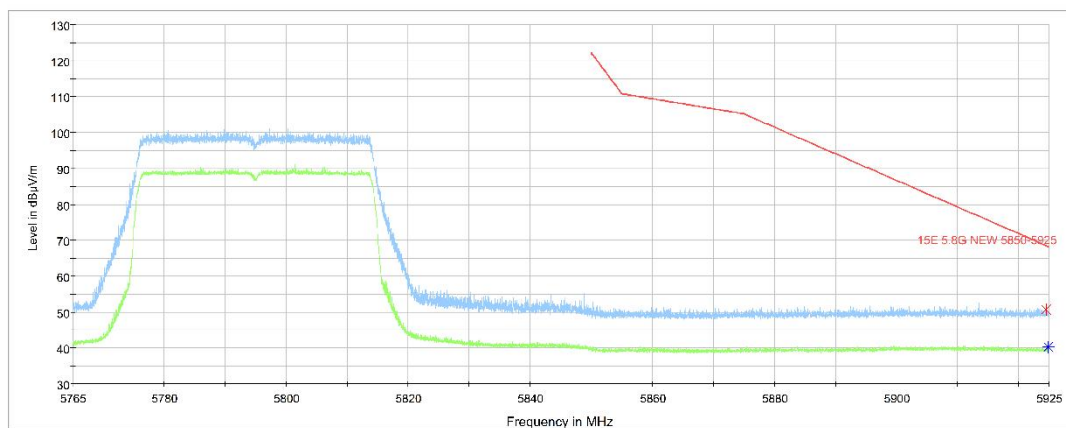


Fig. 16 Band Edges (802.11ax-HT40 Ch159 full RU, 5795MHz)

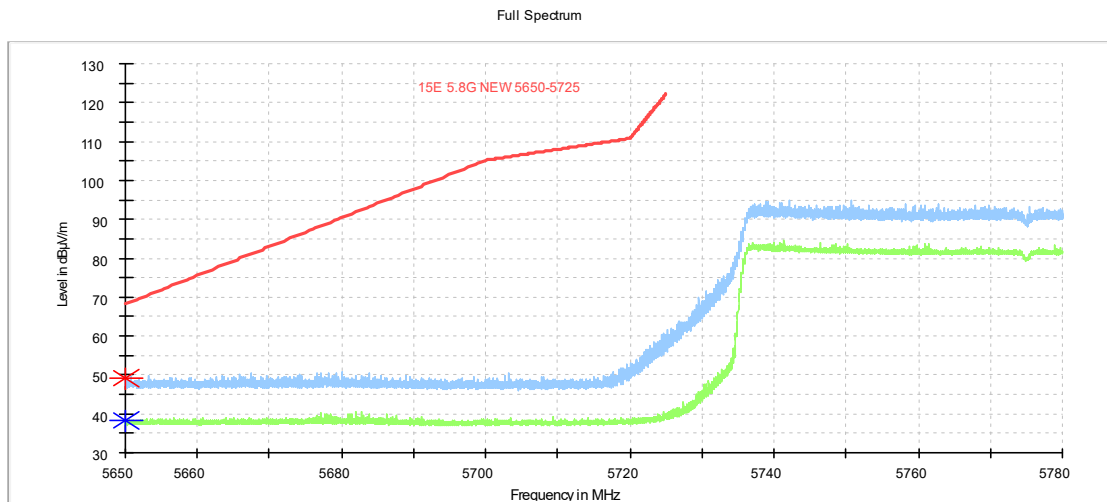


Fig. 17 Band Edges (802.11ax-HT80 Ch155-L full RU, 5775MHz)

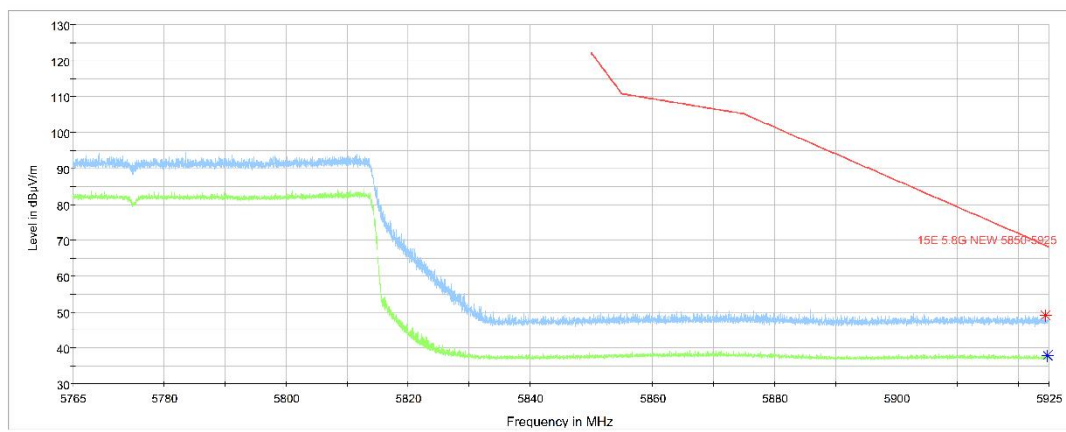


Fig. 18 Band Edges (802.11ax-HT80 Ch155-R full RU, 5775MHz)

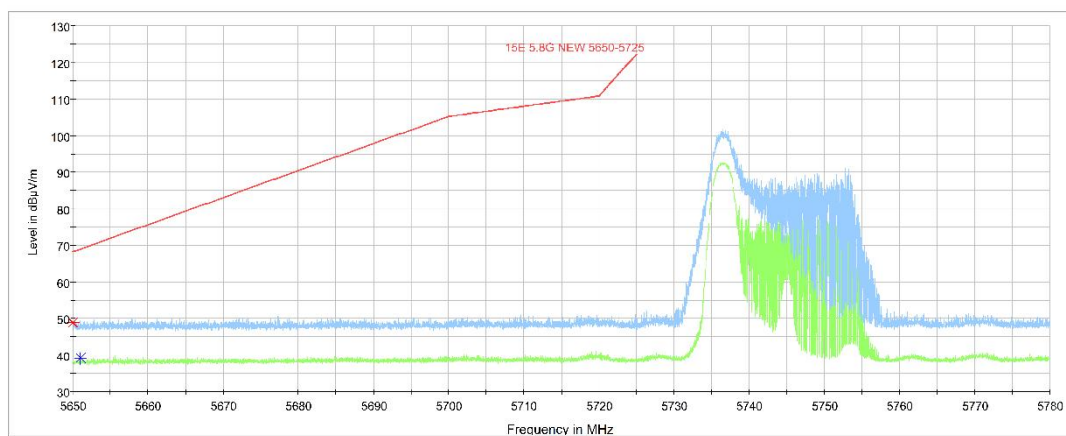


Fig. 19 Band Edges (802.11ax-HT20 Ch149 partial RU, 5745MHz)

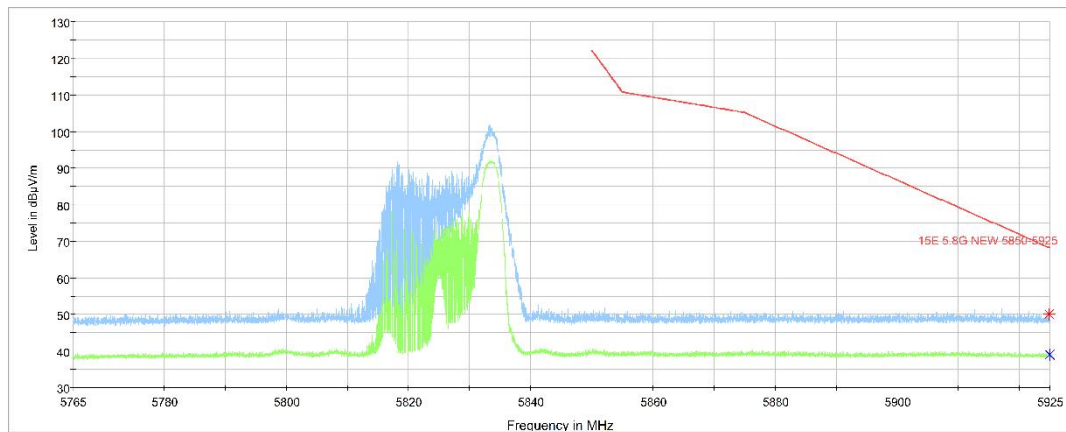


Fig. 20 Band Edges (802.11ax-HT20 Ch165 partial RU, 5825MHz)

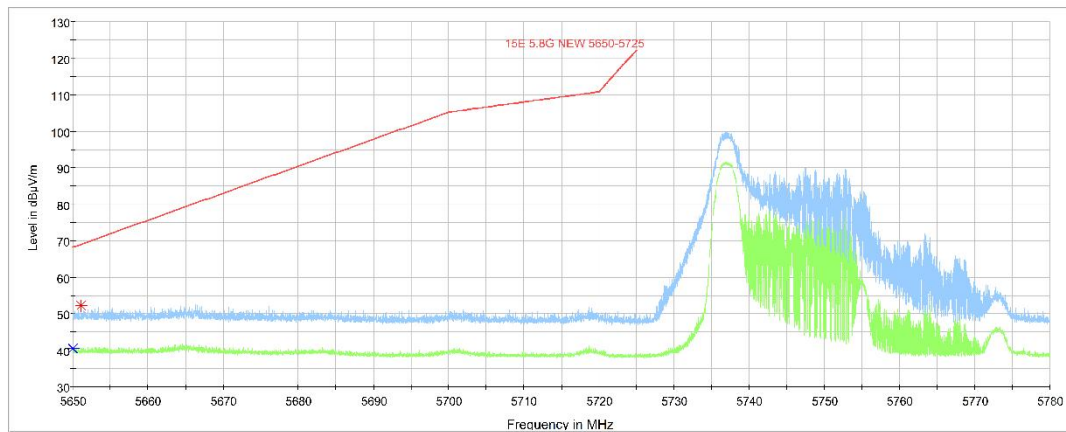


Fig. 21 Band Edges (802.11ax-HT40 Ch151 partial RU, 5755MHz)

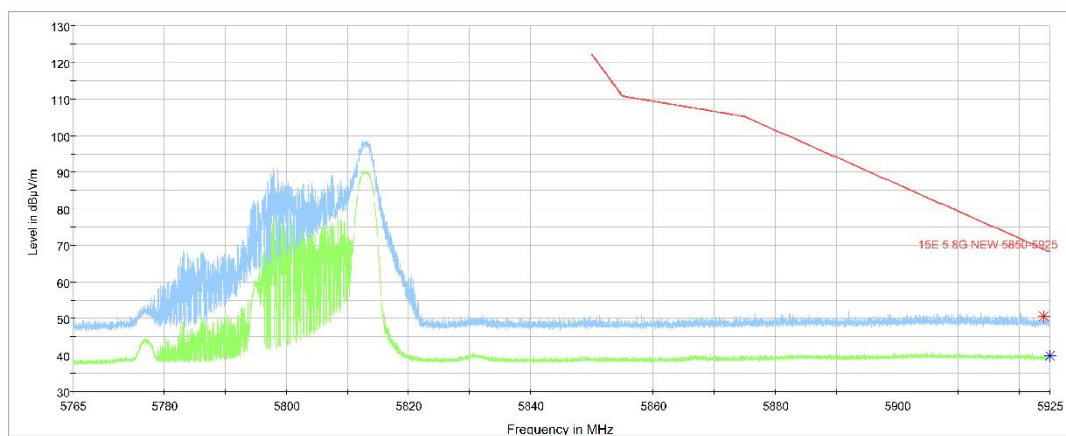


Fig. 22 Band Edges (802.11ax-HT40 Ch159 partial RU, 5795MHz)

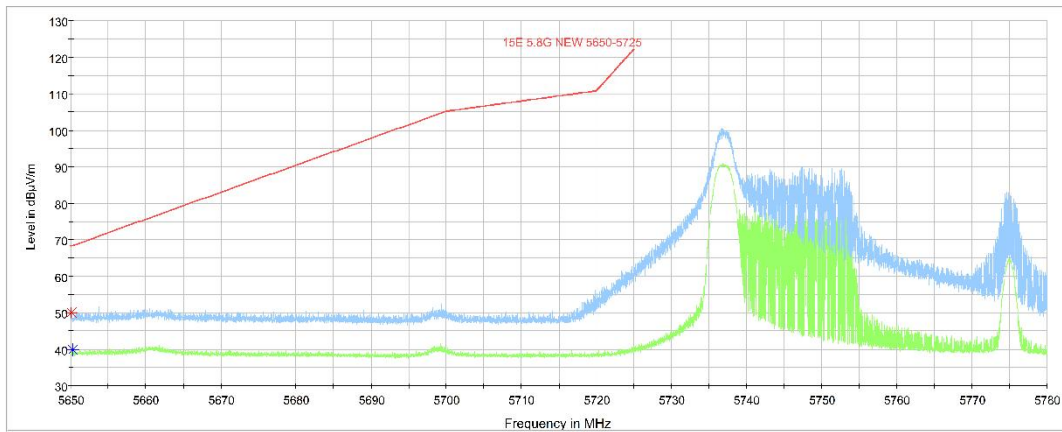


Fig. 23 Band Edges (802.11ax-HT80 Ch155-L partial RU, 5775MHz)

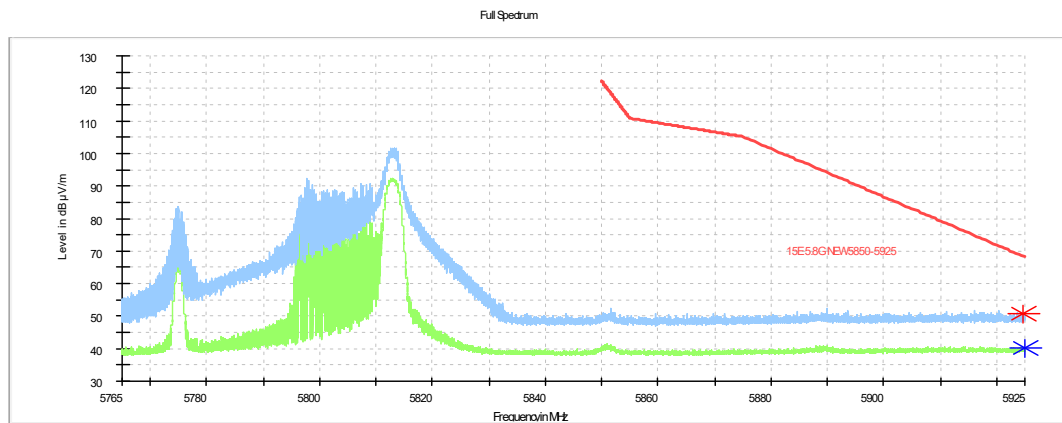


Fig. 24 Band Edges (802.11ax-HT80 Ch155-R partial RU, 5775MHz)

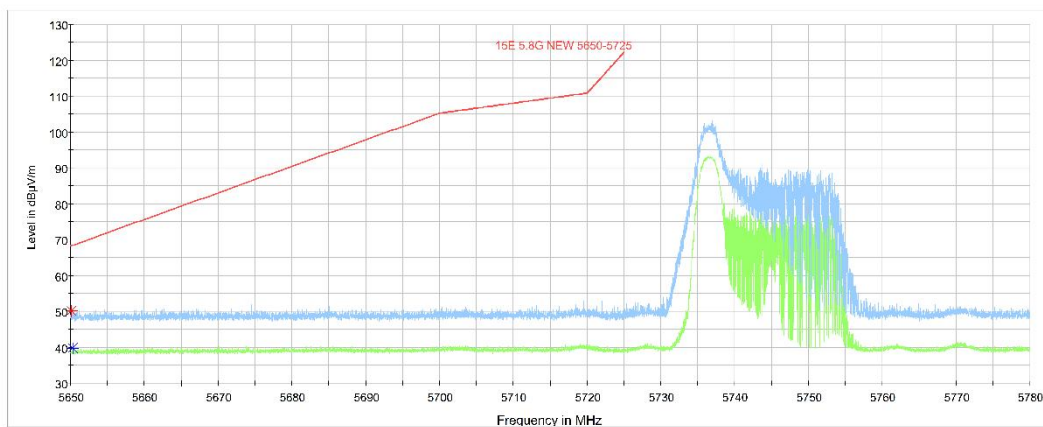


Fig. 25 Band Edges (802.11be-HT20 Ch149 full RU, 5745MHz)

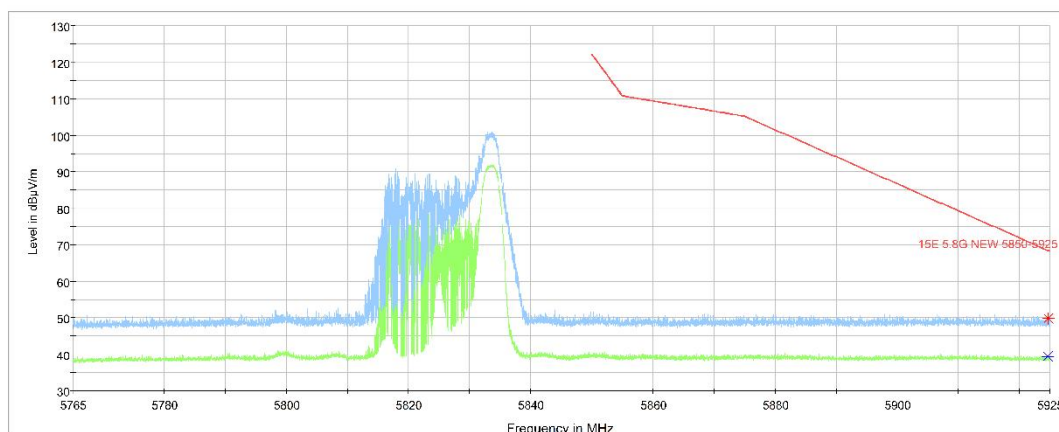


Fig. 26 Band Edges (802.11be-HT20 Ch165 full RU, 5825MHz)

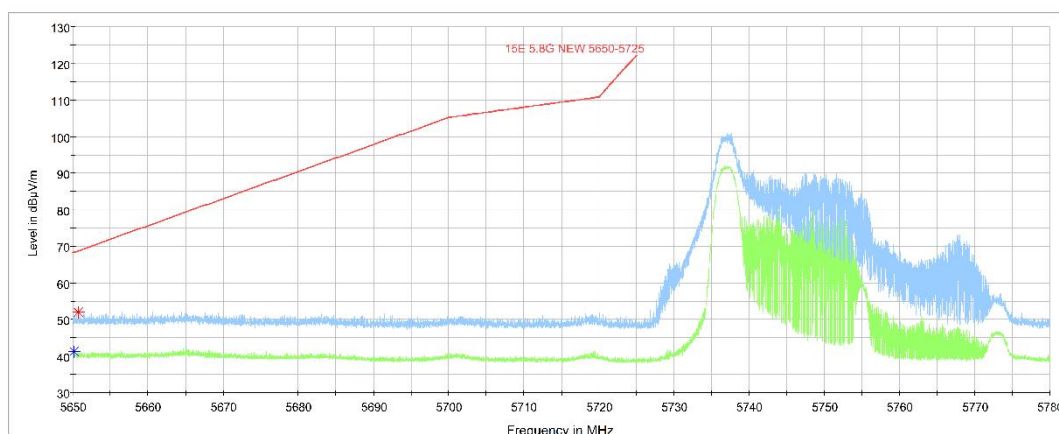


Fig. 27 Band Edges (802.11be-HT40 Ch151 full RU, 5755MHz)

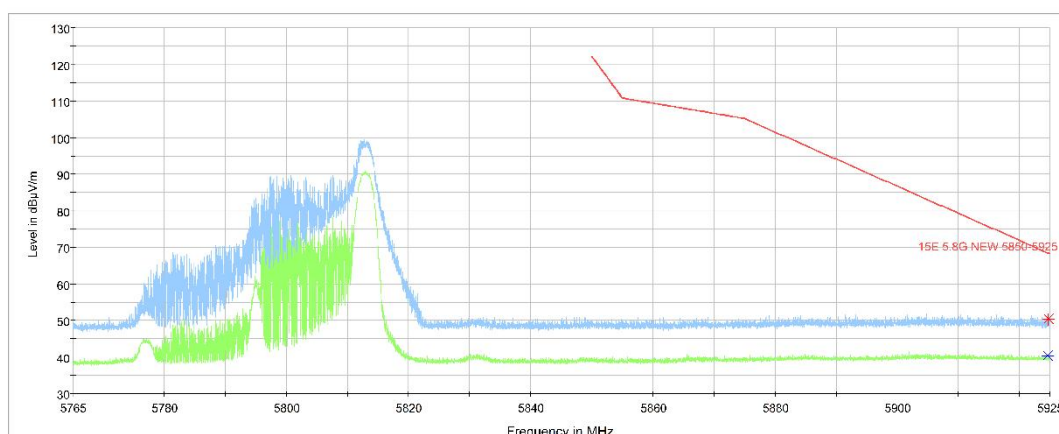


Fig. 28 Band Edges (802.11be-HT40 Ch159 full RU, 5795MHz)

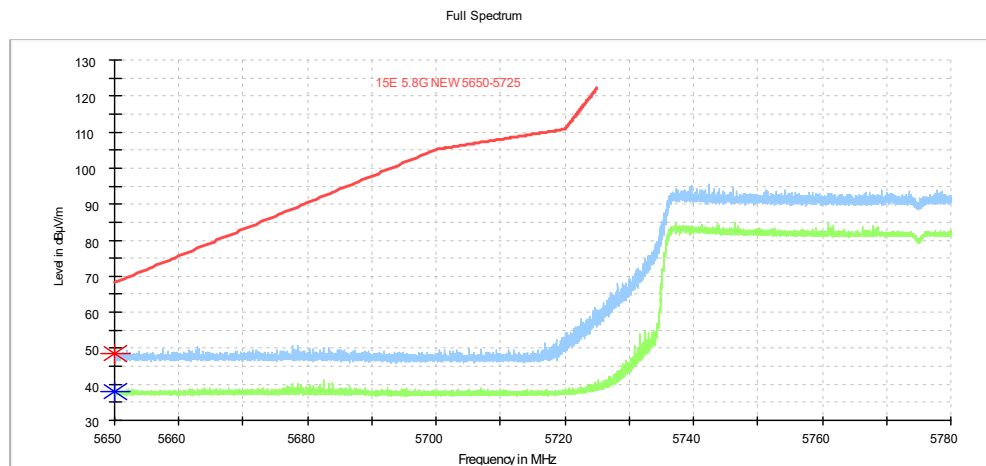


Fig. 29 Band Edges (802.11be-HT80 Ch155-L full RU, 5775MHz)

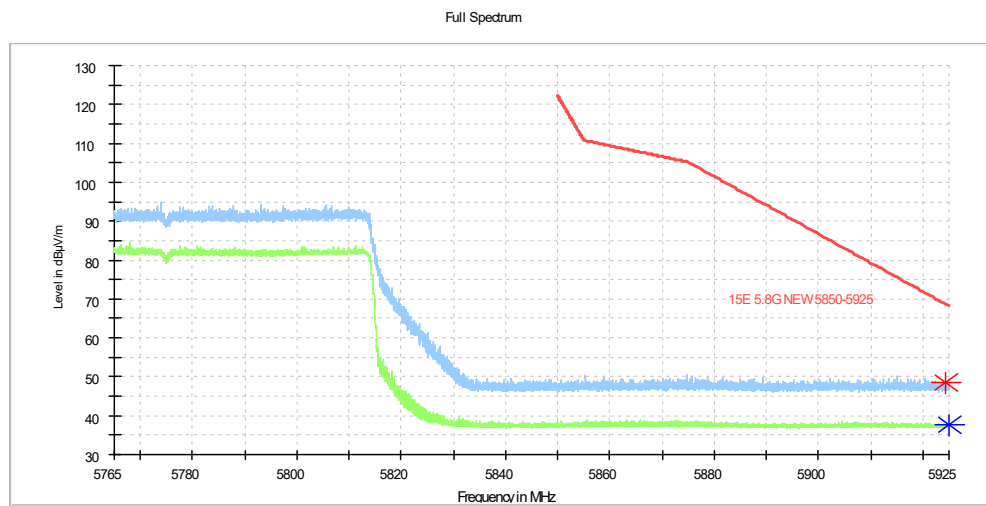


Fig. 30 Band Edges (802.11be-HT80 Ch155-R full RU, 5775MHz)

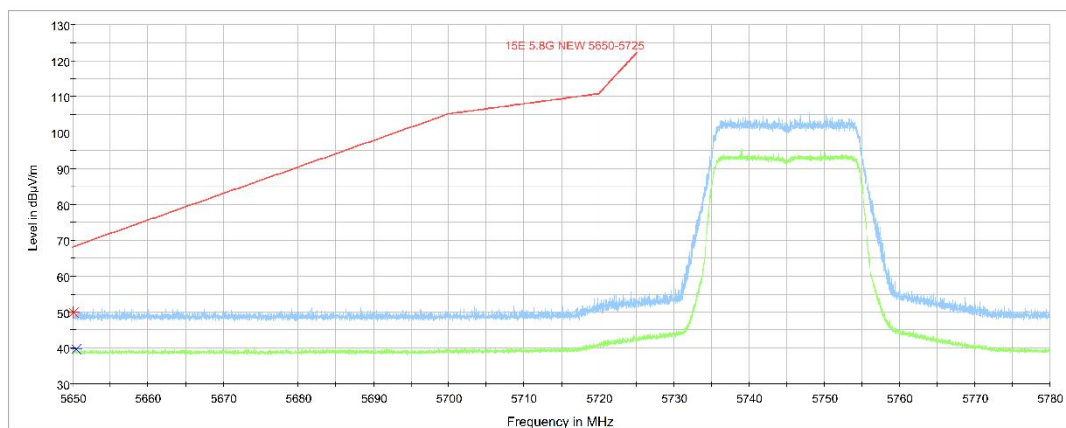


Fig. 31 Band Edges (802.11be-HT20 Ch149 partial RU, 5745MHz)

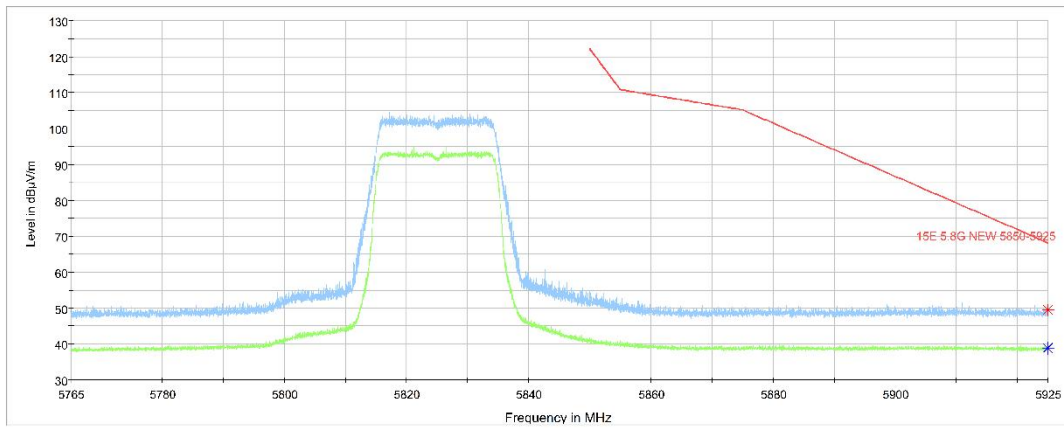


Fig. 32 Band Edges (802.11be-HT20 Ch165 partial RU, 5825MHz)

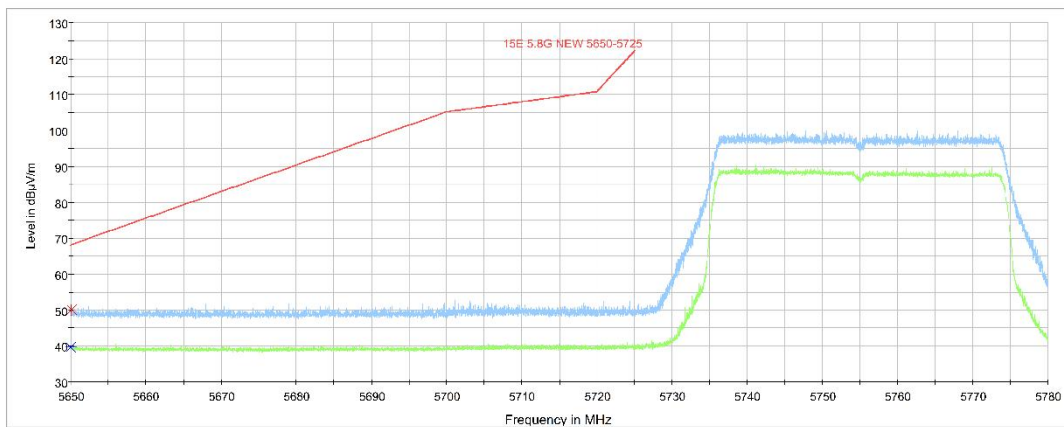


Fig. 33 Band Edges (802.11be-HT40 Ch151 partial RU, 5755MHz)

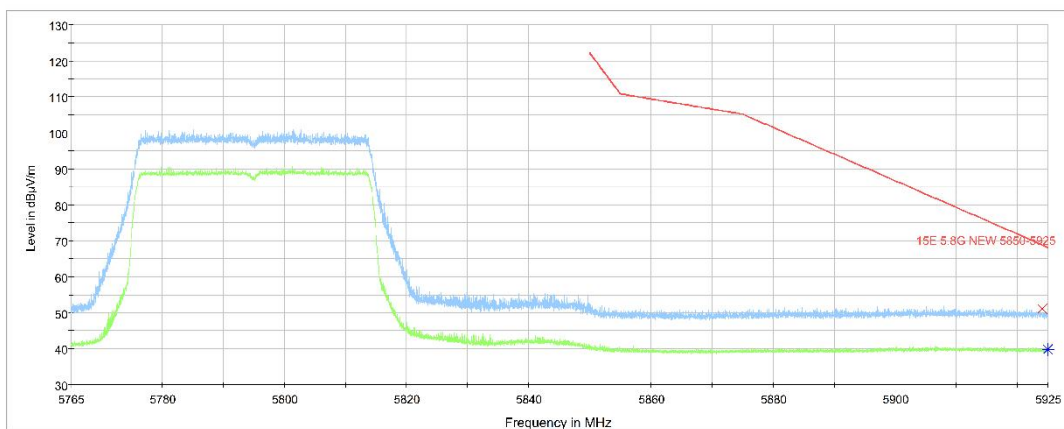


Fig. 34 Band Edges (802.11be-HT40 Ch159 partial RU, 5795MHz)

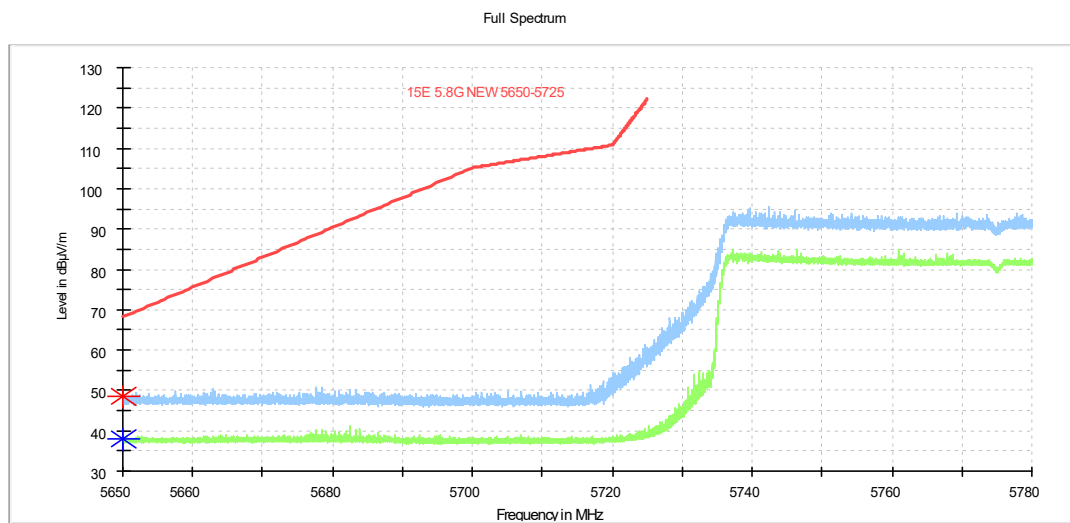


Fig. 35 Band Edges (802.11be-HT80 Ch155-L partial RU, 5775MHz)

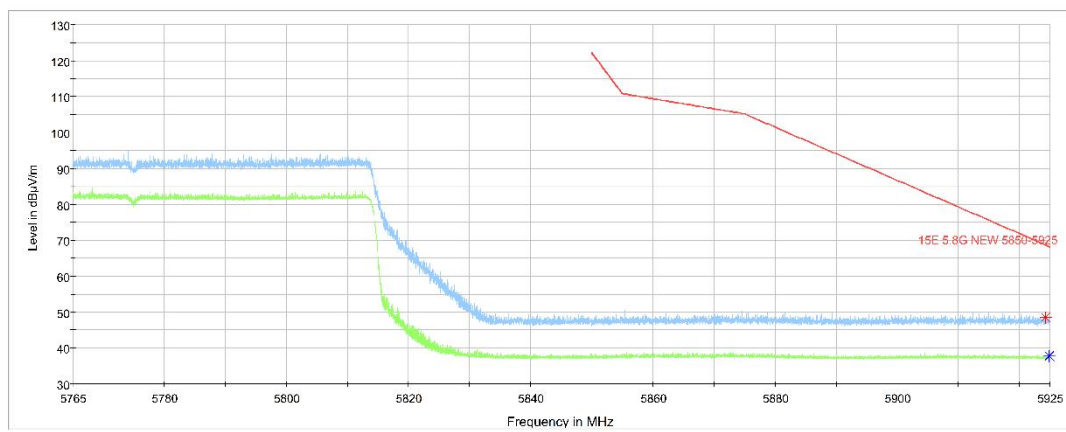


Fig. 36 Band Edges (802.11be-HT80 Ch155-R partial RU, 5775MHz)

A.6. AC Powerline Conducted Emission

A.6.1 Summary

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

A.6.2 Method of Measurement

See Clause 6.2 of ANSI C63.10 specifically.

See Clause 4 and Clause 5 of ANSI C63.10 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver:
Quasi-Peak / Average Detector.

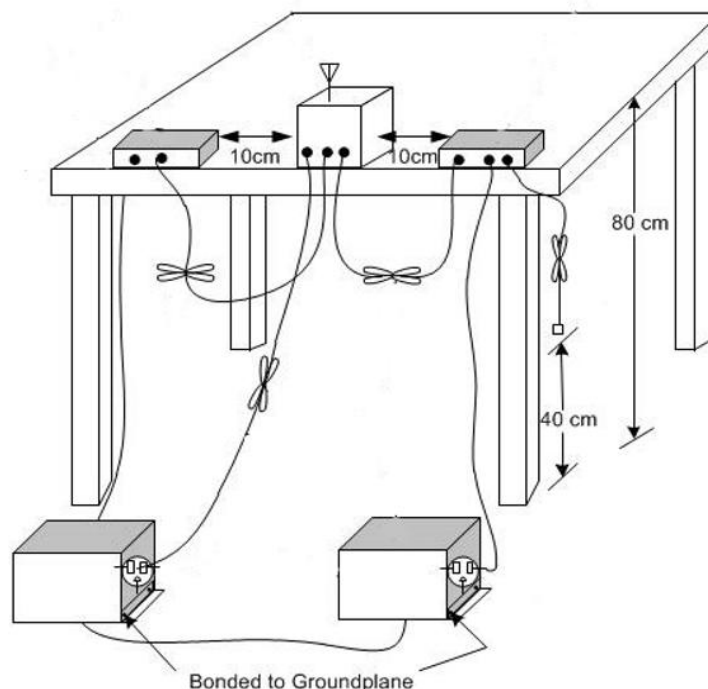
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

A.6.3 Test Condition

Voltage (V)	Frequency (Hz)
120	60

A.6.4 Test setup



A.6.5 Measurement Result and limit

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.37	Fig.38	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.37	Fig.38	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10 .

Conclusion: PASS

Test graphs as below:

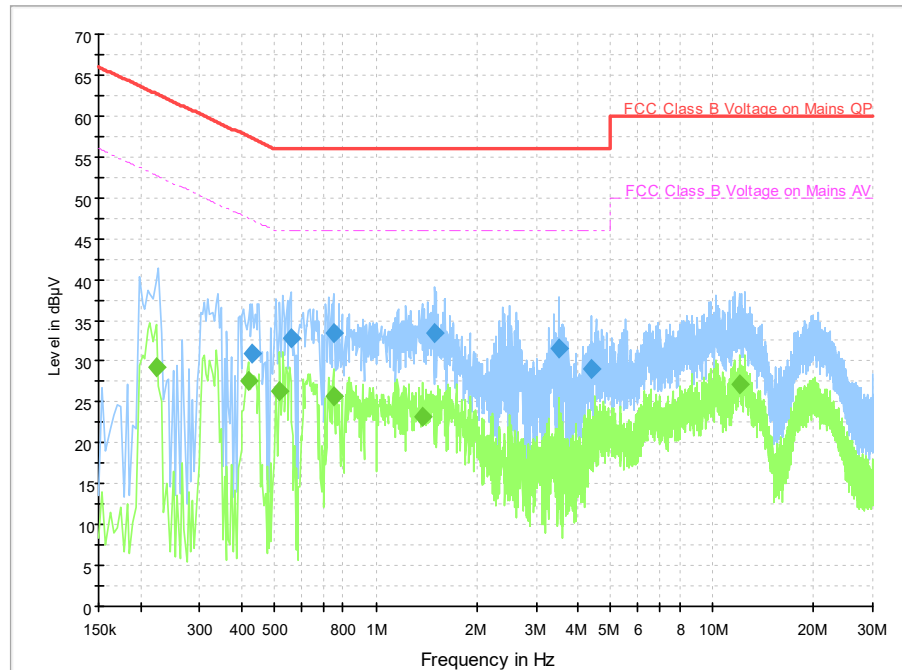


Fig. 37 AC Powerline Conducted Emission-802.11a

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.430000	31.0	2000.0	9.000	On	N	19.9	26.3	57.3	
0.558000	32.8	2000.0	9.000	On	L1	20.0	23.2	56.0	
0.750000	33.5	2000.0	9.000	On	L1	20.0	22.5	56.0	
1.502000	33.5	2000.0	9.000	On	L1	19.9	22.5	56.0	
3.502000	31.6	2000.0	9.000	On	L1	19.8	24.4	56.0	
4.394000	29.1	2000.0	9.000	On	L1	19.8	26.9	56.0	

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.222000	29.3	2000.0	9.000	On	N	19.8	23.5	52.7	
0.418000	27.6	2000.0	9.000	On	L1	20.0	19.9	47.5	
0.518000	26.3	2000.0	9.000	On	N	19.9	19.7	46.0	
0.750000	25.6	2000.0	9.000	On	L1	20.0	20.4	46.0	
1.374000	23.3	2000.0	9.000	On	L1	19.9	22.7	46.0	
12.134000	27.1	2000.0	9.000	On	N	19.7	22.9	50.0	

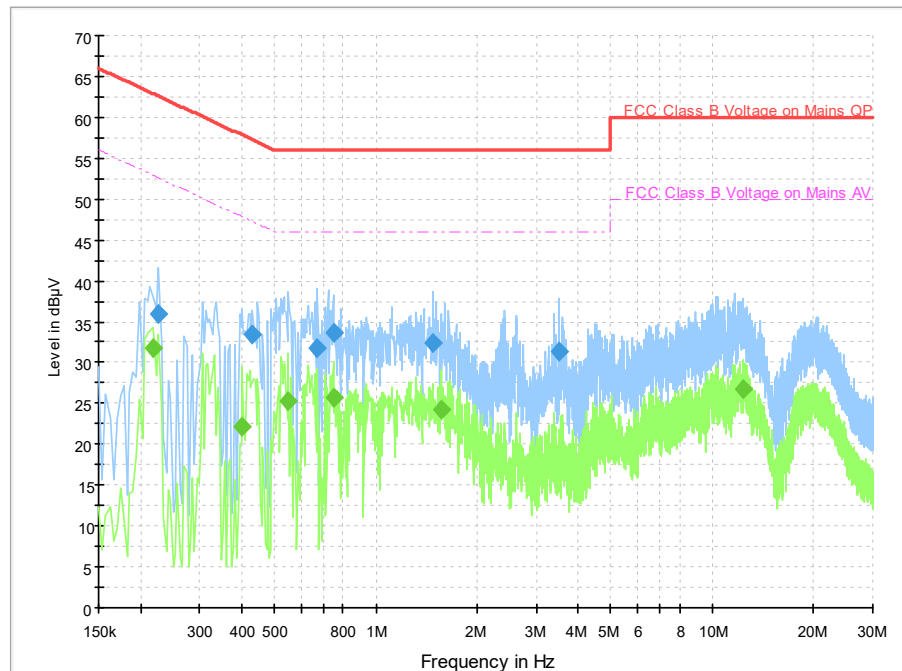


Fig. 38 AC Powerline Conducted Emission-Idle

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.226000	36.0	2000.0	9.000	On	L1	19.9	26.6	62.6	
0.430000	33.4	2000.0	9.000	On	L1	20.0	23.8	57.3	
0.670000	31.8	2000.0	9.000	On	L1	20.0	24.2	56.0	
0.750000	33.7	2000.0	9.000	On	L1	20.0	22.4	56.0	
1.474000	32.4	2000.0	9.000	On	N	19.7	23.6	56.0	
3.502000	31.4	2000.0	9.000	On	L1	19.8	24.6	56.0	

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.218000	31.8	2000.0	9.000	On	N	19.8	21.0	52.9	
0.402000	22.2	2000.0	9.000	On	L1	20.0	25.6	47.8	
0.550000	25.3	2000.0	9.000	On	N	19.9	20.7	46.0	
0.750000	25.8	2000.0	9.000	On	L1	20.0	20.2	46.0	
1.570000	24.2	2000.0	9.000	On	N	19.7	21.8	46.0	
12.358000	26.7	2000.0	9.000	On	N	19.7	23.3	50.0	

A.7. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate



*** END OF REPORT BODY ***