

5.9 UNWANTED EMISSIONS

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 b(6) (8)(9)(10)
FCC 47 CFR Part 15 Subpart C Section 15.209/205

Test Method: KDB 789033 D02 v02r01 Section II G.3, G.4, G.5, and G.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

2. Limits of Unwanted Emission Out of the Restricted Bands

Limit	
EIRP Limit	Equivalent Field Strength at 3 m
not exceed an e.i.r.p. of -27 dBm/MHz.	68.2 (dBμV/m)

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

- The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Remark:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle $\geq 98\%$) or $\geq 1/T$ (duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

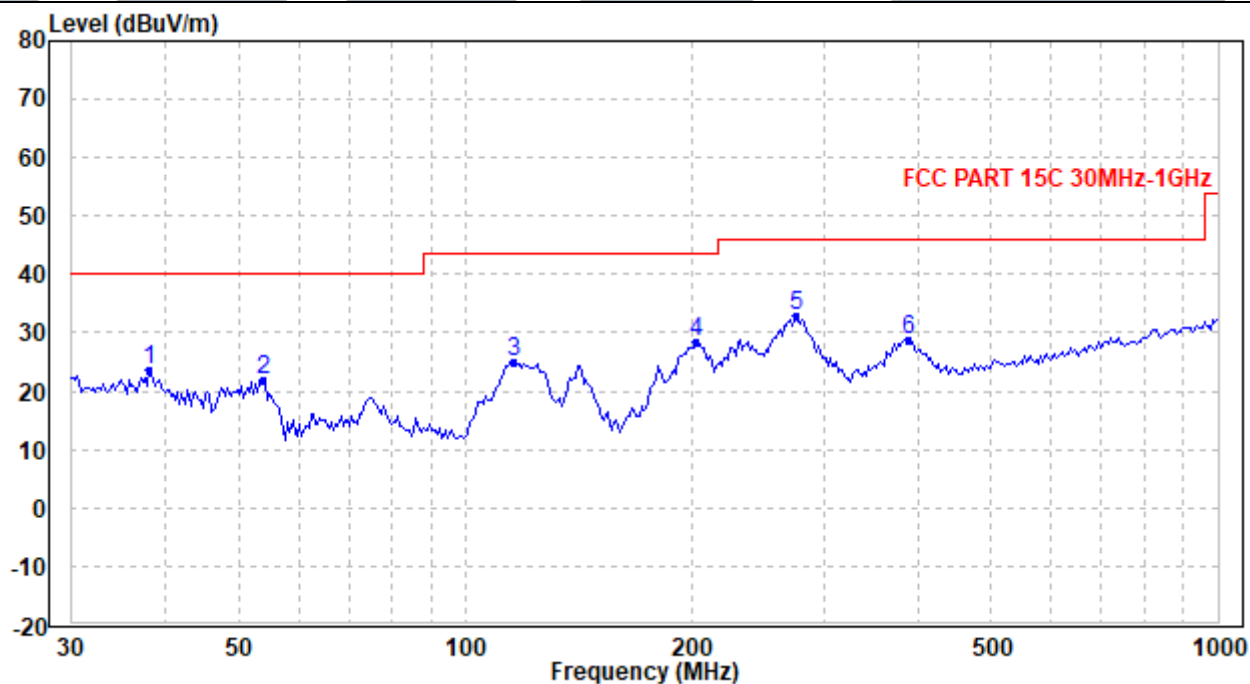
Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

Radiated Emission Test Data (9 kHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):
Worst-Case Configuration
Horizontal


No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.096	31.35	-7.77	23.58	40.00	-16.42	Peak
2	53.756	37.74	-15.99	21.75	40.00	-18.25	Peak
3	115.632	40.83	-15.73	25.10	43.50	-18.40	Peak
4	202.875	39.79	-11.26	28.53	43.50	-14.97	Peak
5	274.446	42.70	-9.88	32.82	46.00	-13.18	Peak
6	387.257	33.65	-4.69	28.96	46.00	-17.04	Peak

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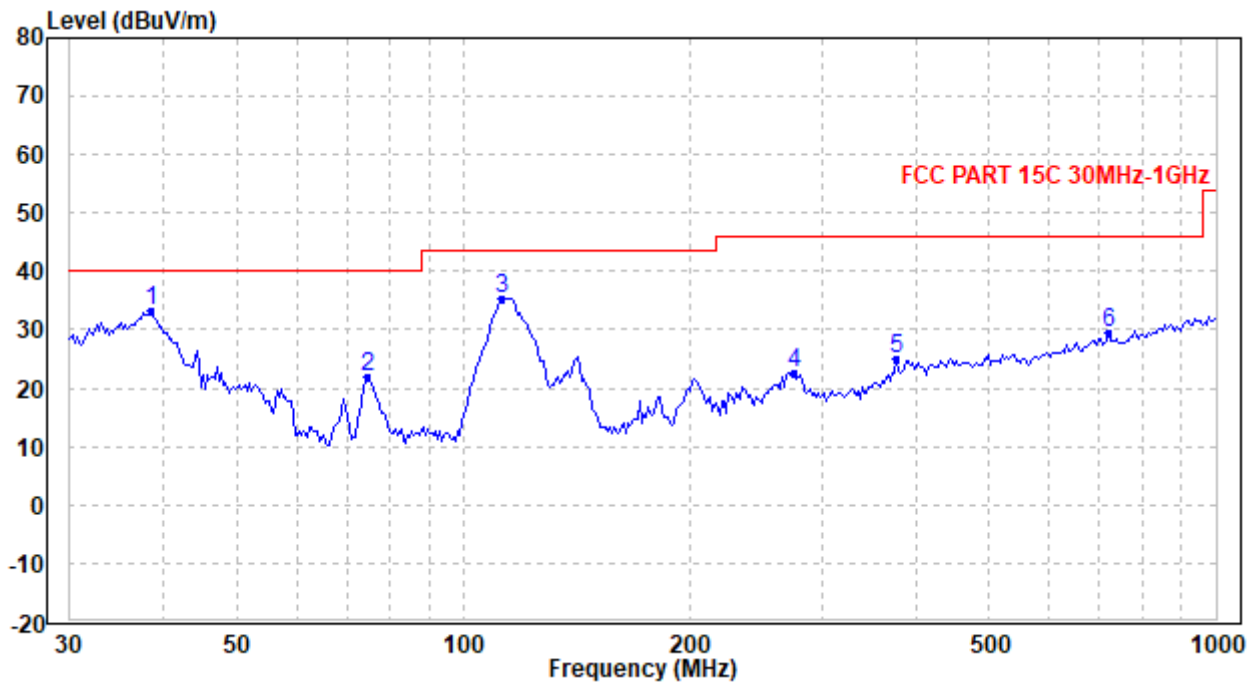
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Vertical



No.	Frequency (MHz)	Reading (dBUV)	Correction factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	38.365	41.16	-7.95	33.21	40.00	-6.79	Peak
2	74.793	40.49	-18.47	22.02	40.00	-17.98	Peak
3	112.427	51.07	-15.59	35.48	43.50	-8.02	Peak
4	274.446	32.50	-9.88	22.62	46.00	-23.38	Peak
5	376.523	30.34	-5.45	24.89	46.00	-21.11	Peak
6	718.725	27.99	1.40	29.39	46.00	-16.61	Peak

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Radiated Emission Test Data (1-18GHz):

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
802.11AX20_SU_ANT5+7_5955 MHz								
1	11910	32.60	5.52	38.12	54.00	-15.88	Average	Horizontal
2	11910	45.41	5.52	50.93	74.00	-23.07	Peak	Horizontal
3	17865	29.92	10.17	40.09	54.00	-13.91	Average	Horizontal
4	17865	42.97	10.17	53.14	74.00	-20.86	Peak	Horizontal
5	11910	32.57	5.52	38.09	54.00	-15.91	Average	Vertical
6	11910	45.14	5.52	50.66	74.00	-23.34	Peak	Vertical
7	17865	29.88	10.17	40.05	54.00	-13.95	Average	Vertical
8	17865	42.65	10.17	52.82	74.00	-21.18	Peak	Vertical
802.11AX20_SU_ANT5+7_6175 MHz								
1	12350	32.15	6.40	38.55	54.00	-15.45	Average	Horizontal
2	12350	44.46	6.40	50.86	74.00	-23.14	Peak	Horizontal
3	12350	32.19	6.40	38.59	54.00	-15.41	Average	Vertical
4	12350	46.56	6.40	52.96	74.00	-21.04	Peak	Vertical
802.11AX20_SU_ANT5+7_6415 MHz								
1	12830	30.96	7.09	38.05	48.20	-10.15	Average	Horizontal
2	12830	43.39	7.09	50.48	68.20	-17.72	Peak	Horizontal
3	12830	31.04	7.09	38.13	48.20	-10.07	Average	Vertical
4	12830	43.56	7.09	50.65	68.20	-17.55	Peak	Vertical
802.11AX20_SU_ANT5+7_6435 MHz								
1	12870	31.00	7.13	38.13	48.20	-10.07	Average	Vertical
2	12870	43.10	7.13	50.23	68.20	-17.97	Peak	Vertical
3	12870	30.92	7.13	38.05	48.20	-10.15	Average	Vertical
4	12870	42.90	7.13	50.03	68.20	-18.17	Peak	Vertical
802.11AX20_SU_ANT5+7_6475 MHz								
1	12950	30.53	7.22	37.75	48.20	-10.45	Average	Horizontal
2	12950	44.01	7.22	51.23	68.20	-16.97	Peak	Horizontal
3	12950	30.49	7.22	37.71	48.20	-10.49	Average	Vertical
4	12950	42.92	7.22	50.14	68.20	-18.06	Peak	Vertical
802.11AX20_SU_ANT5+7_6515 MHz								
1	13030	30.03	7.32	37.35	48.20	-10.85	Average	Horizontal
2	13030	43.22	7.32	50.54	68.20	-17.66	Peak	Horizontal
3	13030	30.03	7.32	37.35	48.20	-10.85	Average	Vertical
4	13030	43.31	7.32	50.63	68.20	-17.57	Peak	Vertical
802.11AX20_SU_ANT5+7_6535 MHz								
1	13070	30.98	7.37	38.35	48.20	-9.85	Average	Horizontal
2	13070	43.18	7.37	50.55	68.20	-17.65	Peak	Horizontal
3	13070	30.94	7.37	38.31	48.20	-9.89	Average	Vertical
4	13070	43.51	7.37	50.88	68.20	-17.32	Peak	Vertical
802.11AX20_SU_ANT5+7_6695 MHz								
1	13390	29.78	7.76	37.54	54.00	-16.46	Average	Horizontal
2	13390	42.48	7.76	50.24	74.00	-23.76	Peak	Horizontal
3	13390	29.92	7.76	37.68	54.00	-16.32	Average	Vertical
4	13390	43.32	7.76	51.08	74.00	-22.92	Peak	Vertical
802.11AX20_SU_ANT5+7_6855 MHz								
1	13710	29.48	8.24	37.72	48.20	-10.48	Average	Horizontal
2	13710	42.38	8.24	50.62	68.20	-17.58	Peak	Horizontal
3	13710	29.48	8.24	37.72	48.20	-10.48	Average	Vertical
4	13710	42.12	8.24	50.36	68.20	-17.84	Peak	Vertical
802.11AX20_SU_ANT5+7_6875 MHz								
1	13750	29.61	8.29	37.90	48.20	-10.30	Average	Horizontal
2	13750	41.82	8.29	50.11	68.20	-18.09	Peak	Horizontal
3	13750	29.66	8.29	37.95	48.20	-10.25	Average	Vertical

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
4	13750	41.71	8.29	50.00	68.20	-18.20	Peak	Vertical
802.11AX20_SU_ANT5+7_6895 MHz								
1	13790	29.55	8.35	37.90	48.20	-10.30	Average	Horizontal
2	13790	42.13	8.35	50.48	68.20	-17.72	Peak	Horizontal
3	13790	29.50	8.35	37.85	48.20	-10.35	Average	Vertical
4	13790	41.79	8.35	50.14	68.20	-18.06	Peak	Vertical
802.11AX20_SU_ANT5+7_6995 MHz								
1	13990	29.76	8.68	38.44	48.20	-9.76	Average	Horizontal
2	13990	42.23	8.68	50.91	68.20	-17.29	Peak	Horizontal
3	13990	29.76	8.68	38.44	48.20	-9.76	Average	Vertical
4	13990	41.81	8.68	50.49	68.20	-17.71	Peak	Vertical
802.11AX20_SU_ANT5+7_7115 MHz								
1	14230	30.04	8.86	38.90	48.20	-9.30	Average	Horizontal
2	14230	42.88	8.86	51.74	68.20	-16.46	Peak	Horizontal
3	14230	29.99	8.86	38.85	48.20	-9.35	Average	Vertical
4	14230	43.04	8.86	51.90	68.20	-16.30	Peak	Vertical
802.11AX40_SU_ANT5+7_5965 MHz								
1	11930	32.49	5.56	38.05	54.00	-15.95	Average	Horizontal
2	11930	44.81	5.56	50.37	74.00	-23.63	Peak	Horizontal
3	17895	29.68	10.27	39.95	54.00	-14.05	Average	Horizontal
4	17895	43.38	10.27	53.65	74.00	-20.35	Peak	Horizontal
5	11930	32.42	5.56	37.98	54.00	-16.02	Average	Vertical
6	11930	44.41	5.56	49.97	74.00	-24.03	Peak	Vertical
7	17895	29.68	10.27	39.95	54.00	-14.05	Average	Vertical
8	17895	42.31	10.27	52.58	74.00	-21.42	Peak	Vertical
802.11AX40_SU_ANT5+7_6165 MHz								
1	12330	32.27	6.36	38.63	54.00	-15.37	Average	Horizontal
2	12330	45.04	6.36	51.40	74.00	-22.60	Peak	Horizontal
3	12330	32.16	6.36	38.52	54.00	-15.48	Average	Vertical
4	12330	44.39	6.36	50.75	74.00	-23.25	Peak	Vertical
802.11AX40_SU_ANT5+7_6405 MHz								
1	12810	31.10	7.07	38.17	48.20	-10.03	Average	Horizontal
2	12810	42.98	7.07	50.05	68.20	-18.15	Peak	Horizontal
3	12810	31.06	7.07	38.13	48.20	-10.07	Average	Vertical
4	12810	43.10	7.07	50.17	68.20	-18.03	Peak	Vertical
802.11AX40_SU_ANT5+7_6445 MHz								
1	12890	30.97	7.16	38.13	48.20	-10.07	Average	Horizontal
2	12890	42.80	7.16	49.96	68.20	-18.24	Peak	Horizontal
3	12890	30.93	7.16	38.09	48.20	-10.11	Average	Vertical
4	12890	43.29	7.16	50.45	68.20	-17.75	Peak	Vertical
802.11AX40_SU_ANT5+7_6485 MHz								
1	12890	30.93	7.16	38.09	48.20	-10.11	Average	Vertical
2	12970	43.31	7.24	50.55	68.20	-17.65	Peak	Horizontal
3	12970	30.56	7.24	37.80	48.20	-10.40	Average	Vertical
4	12970	43.62	7.24	50.86	68.20	-17.34	Peak	Vertical
802.11AX40_SU_ANT5+7_6525 MHz								
1	13050	30.06	7.34	37.40	48.20	-10.80	Average	Horizontal
2	13050	42.65	7.34	49.99	68.20	-18.21	Peak	Horizontal
3	13050	30.10	7.34	37.44	48.20	-10.76	Average	Vertical
4	13050	42.60	7.34	49.94	68.20	-18.26	Peak	Vertical
802.11AX40_SU_ANT5+7_6565 MHz								
1	13130	30.41	7.44	37.85	48.20	-10.35	Average	Horizontal
2	13130	43.30	7.44	50.74	68.20	-17.46	Peak	Horizontal
3	13130	30.41	7.44	37.85	48.20	-10.35	Average	Vertical

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4	13130	42.92	7.44	50.36	68.20	-17.84	Peak	Vertical
802.11AX40_SU_ANT5+7_6685 MHz								
1	13370	29.81	7.73	37.54	54.00	-16.46	Average	Horizontal
2	13370	42.13	7.73	49.86	74.00	-24.14	Peak	Horizontal
3	13370	29.90	7.73	37.63	54.00	-16.37	Average	Vertical
4	13370	42.80	7.73	50.53	74.00	-23.47	Peak	Vertical
802.11AX40_SU_ANT5+7_6845 MHz								
1	13690	29.48	8.19	37.67	48.20	-10.53	Average	Horizontal
2	13690	42.45	8.19	50.64	68.20	-17.56	Peak	Horizontal
3	13690	29.48	8.19	37.67	48.20	-10.53	Average	Vertical
4	13690	42.08	8.19	50.27	68.20	-17.93	Peak	Vertical
802.11AX40_SU_ANT5+7_6885 MHz								
1	13770	29.52	8.33	37.85	48.20	-10.35	Average	Horizontal
2	13770	41.67	8.33	50.00	68.20	-18.20	Peak	Horizontal
3	13770	29.52	8.33	37.85	48.20	-10.35	Average	Vertical
4	13770	42.02	8.33	50.35	68.20	-17.85	Peak	Vertical
802.11AX40_SU_ANT5+7_6925 MHz								
1	13850	29.71	8.46	38.17	48.20	-10.03	Average	Horizontal
2	13850	42.77	8.46	51.23	68.20	-16.97	Peak	Horizontal
3	13850	29.67	8.46	38.13	48.20	-10.07	Average	Vertical
4	13850	42.27	8.46	50.73	68.20	-17.47	Peak	Vertical
802.11AX40_SU_ANT5+7_6965 MHz								
1	13930	29.96	8.58	38.54	48.20	-9.66	Average	Horizontal
2	13930	42.23	8.58	50.81	68.20	-17.39	Peak	Horizontal
3	13930	29.86	8.58	38.44	48.20	-9.76	Average	Vertical
4	13930	42.08	8.58	50.66	68.20	-17.54	Peak	Vertical
802.11AX40_SU_ANT5+7_7085 MHz								
1	14170	30.02	8.83	38.85	48.20	-9.35	Average	Horizontal
2	14170	42.83	8.83	51.66	68.20	-16.54	Peak	Horizontal
3	14170	29.97	8.83	38.80	48.20	-9.40	Average	Vertical
4	14170	42.64	8.83	51.47	68.20	-16.73	Peak	Vertical
802.11AX80_SU_ANT5+7_5985 MHz								
1	11970	32.09	5.61	37.70	54.00	-16.30	Average	Horizontal
2	11970	44.68	5.61	50.29	74.00	-23.71	Peak	Horizontal
3	17955	30.11	10.45	40.56	54.00	-13.44	Average	Horizontal
4	17955	43.05	10.45	53.50	74.00	-20.50	Peak	Horizontal
5	11970	32.02	5.61	37.63	54.00	-16.37	Average	Vertical
6	11970	44.69	5.61	50.30	74.00	-23.70	Peak	Vertical
7	17955	30.11	10.45	40.56	54.00	-13.44	Average	Vertical
8	17955	42.38	10.45	52.83	74.00	-21.17	Peak	Vertical
802.11AX80_SU_ANT5+7_6145 MHz								
1	12290	32.75	6.27	39.02	54.00	-14.98	Average	Horizontal
2	12290	44.78	6.27	51.05	74.00	-22.95	Peak	Horizontal
3	12290	32.72	6.27	38.99	54.00	-15.01	Average	Vertical
4	12290	45.03	6.27	51.30	74.00	-22.70	Peak	Vertical
802.11AX80_SU_ANT5+7_6385 MHz								
1	12290	32.72	6.27	38.99	54.00	-15.01	Average	Vertical
2	12770	43.71	7.02	50.73	68.20	-17.47	Peak	Horizontal
3	12770	31.11	7.02	38.13	48.20	-10.07	Average	Vertical
4	12770	43.79	7.02	50.81	68.20	-17.39	Peak	Vertical
802.11AX80_SU_ANT5+7_6465 MHz								
1	12930	30.55	7.20	37.75	48.20	-10.45	Average	Horizontal
2	12930	42.99	7.20	50.19	68.20	-18.01	Peak	Horizontal
3	12930	30.55	7.20	37.75	48.20	-10.45	Average	Vertical

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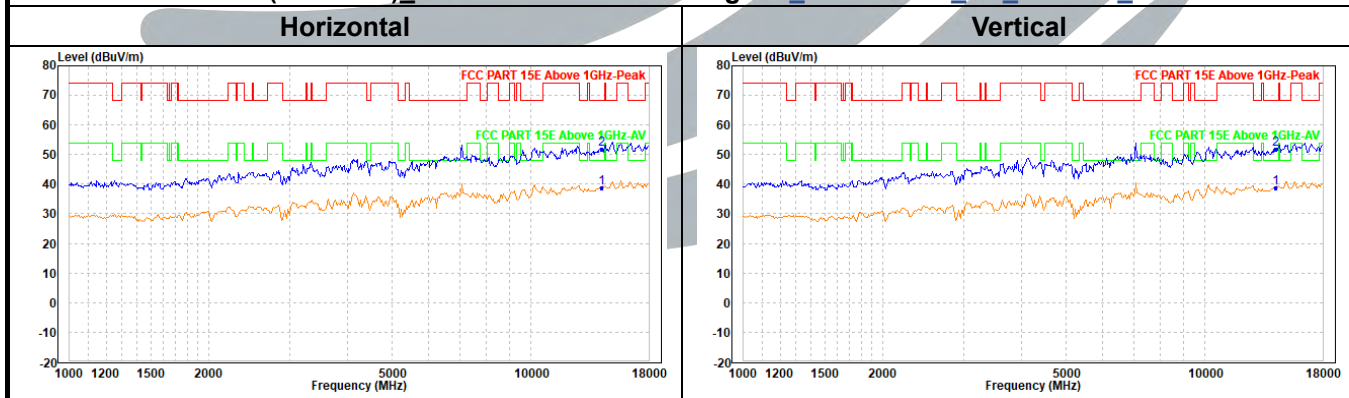
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4	12930	43.00	7.20	50.20	68.20	-18.00	Peak	Vertical
802.11AX80_SU_ANT5+7_6545 MHz								
1	13090	30.84	7.39	38.23	48.20	-9.97	Average	Vertical
2	13090	42.92	7.39	50.31	68.20	-17.89	Peak	Vertical
3	13090	30.96	7.39	38.35	48.20	-9.85	Average	Vertical
4	13090	44.02	7.39	51.41	68.20	-16.79	Peak	Vertical
802.11AX80_SU_ANT5+7_6625 MHz								
1	13250	30.13	7.59	37.72	48.20	-10.48	Average	Horizontal
2	13250	42.34	7.59	49.93	68.20	-18.27	Peak	Horizontal
3	13250	30.18	7.59	37.77	48.20	-10.43	Average	Vertical
4	13250	42.28	7.59	49.87	68.20	-18.33	Peak	Vertical
802.11AX80_SU_ANT5+7_6705 MHz								
1	13410	29.85	7.78	37.63	48.20	-10.57	Average	Horizontal
2	13410	42.08	7.78	49.86	68.20	-18.34	Peak	Horizontal
3	13410	29.76	7.78	37.54	48.20	-10.66	Average	Vertical
4	13410	42.87	7.78	50.65	68.20	-17.55	Peak	Vertical
802.11AX80_SU_ANT5+7_6785 MHz								
1	13570	29.70	8.01	37.71	48.20	-10.49	Average	Horizontal
2	13570	42.57	8.01	50.58	68.20	-17.62	Peak	Horizontal
3	13570	29.65	8.01	37.66	48.20	-10.54	Average	Vertical
4	13570	42.60	8.01	50.61	68.20	-17.59	Peak	Vertical
802.11AX80_SU_ANT5+7_6865 MHz								
1	13730	29.46	8.26	37.72	48.20	-10.48	Average	Horizontal
2	13730	42.13	8.26	50.39	68.20	-17.81	Peak	Horizontal
3	13730	29.51	8.26	37.77	48.20	-10.43	Average	Vertical
4	13730	41.39	8.26	49.65	68.20	-18.55	Peak	Vertical
802.11AX80_SU_ANT5+7_6945 MHz								
1	13890	29.70	8.52	38.22	48.20	-9.98	Average	Horizontal
2	13890	42.27	8.52	50.79	68.20	-17.41	Peak	Horizontal
3	13890	29.65	8.52	38.17	48.20	-10.03	Average	Vertical
4	13890	42.56	8.52	51.08	68.20	-17.12	Peak	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit

Radiated Emission (1-18 GHz)_Worst test mode test diagram_802.11AX20_SU_ANT5+7_7115 MHz

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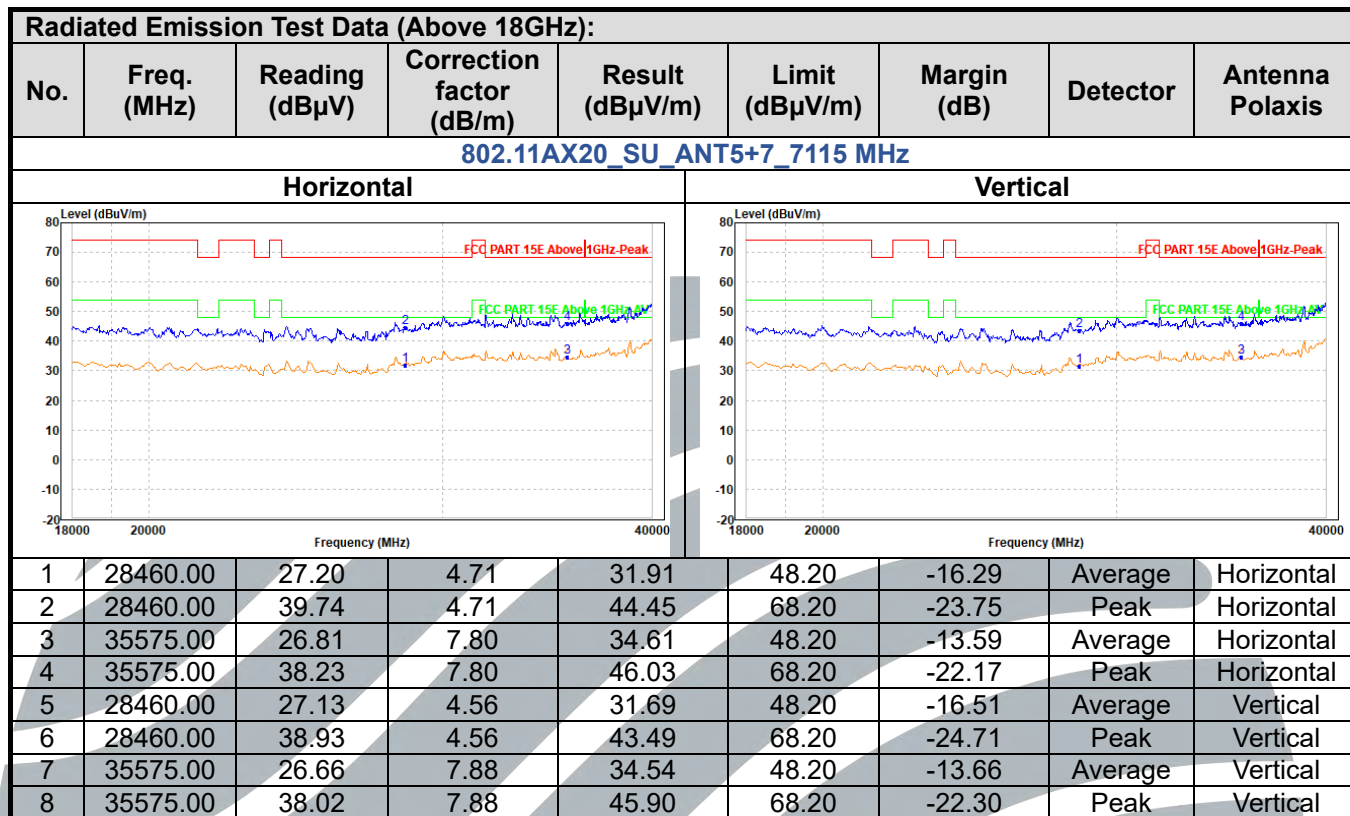
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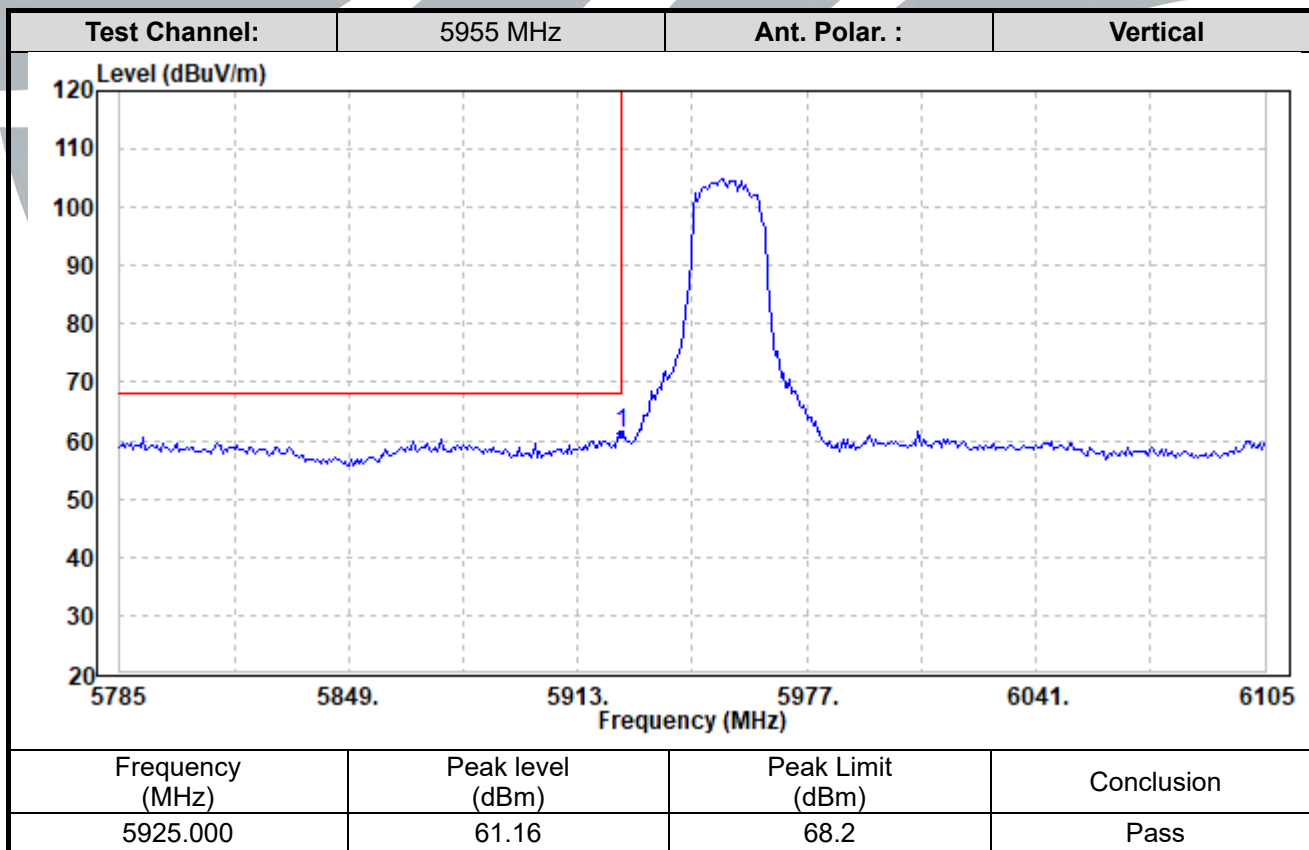
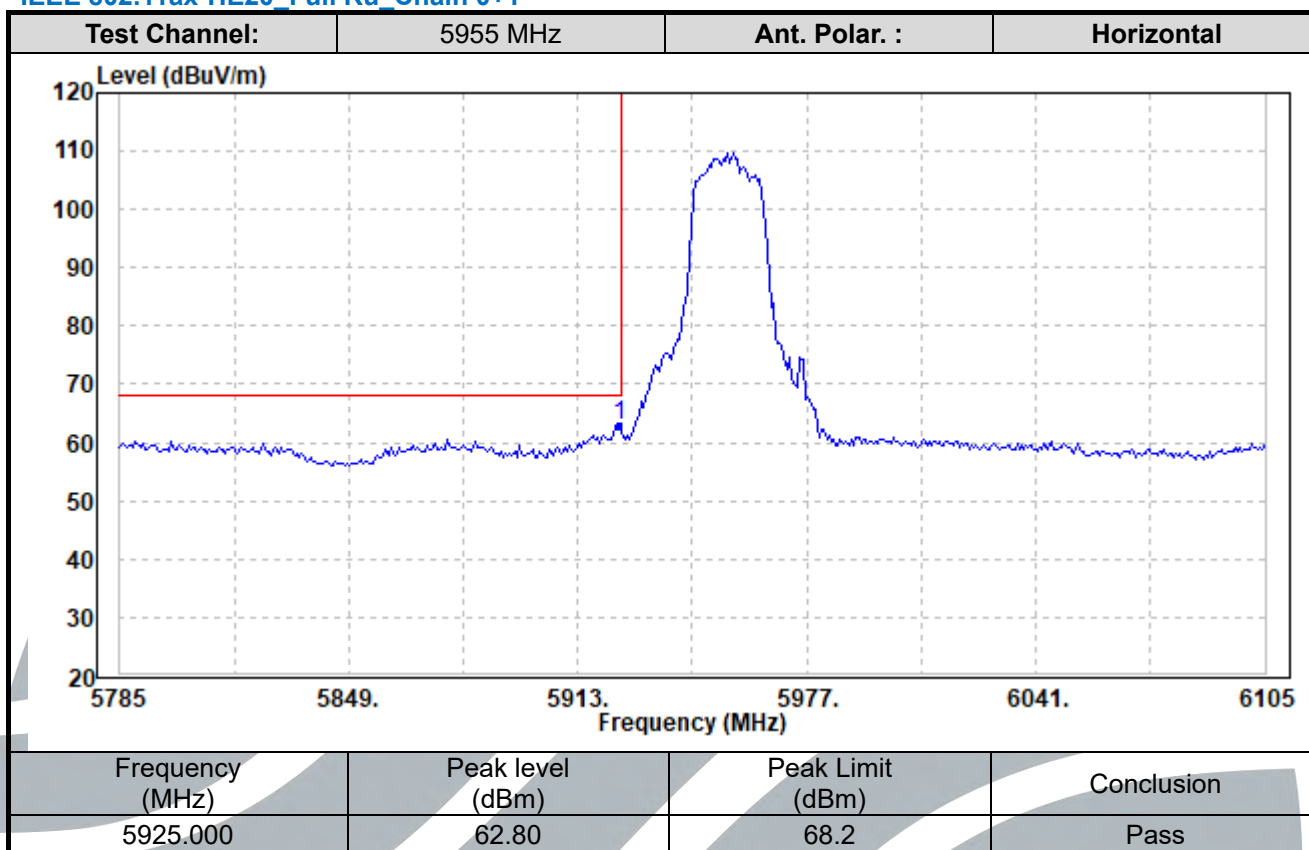
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Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
Margin = Result - Limit

Band Edge Measurements (Radiated):
IEEE 802.11ax-HE20 Full Ru Chain 0+1



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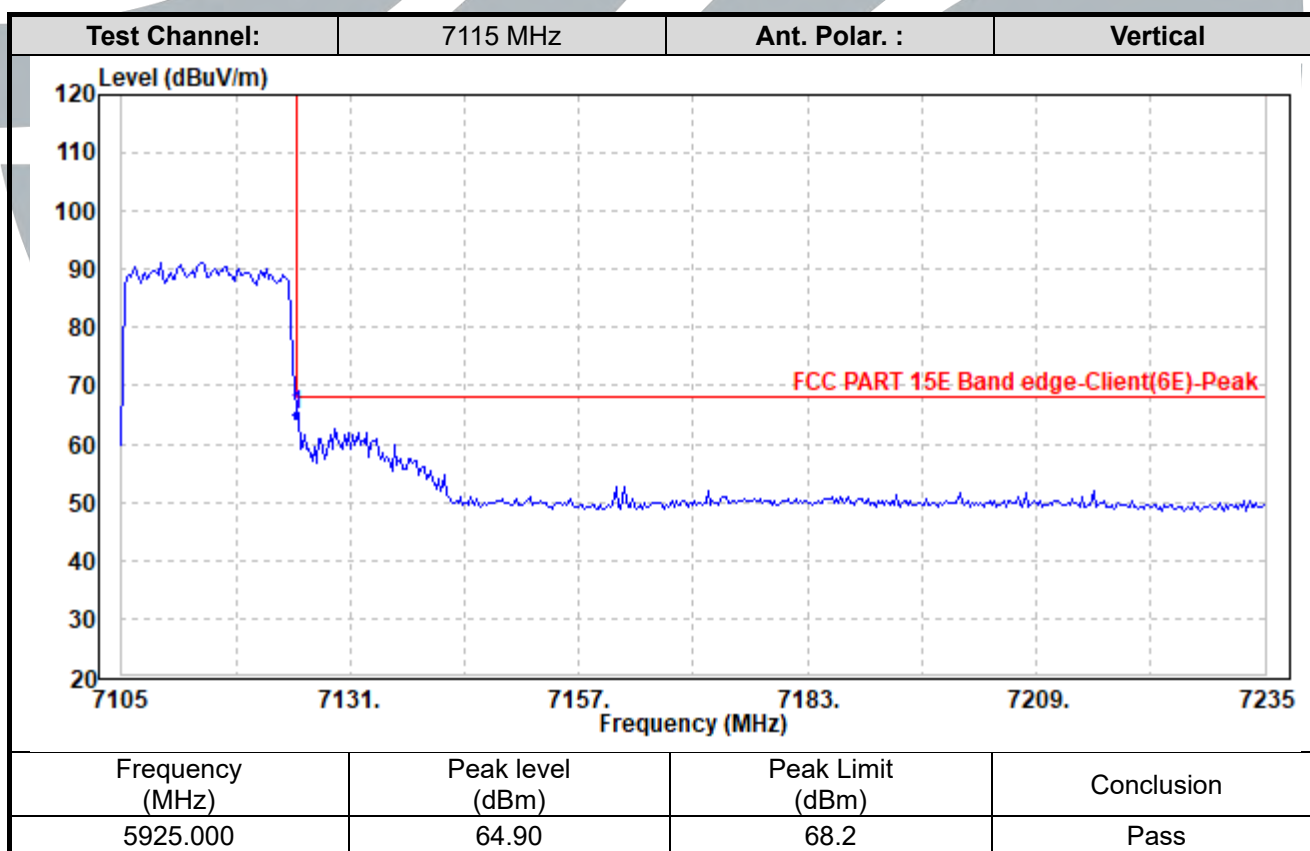
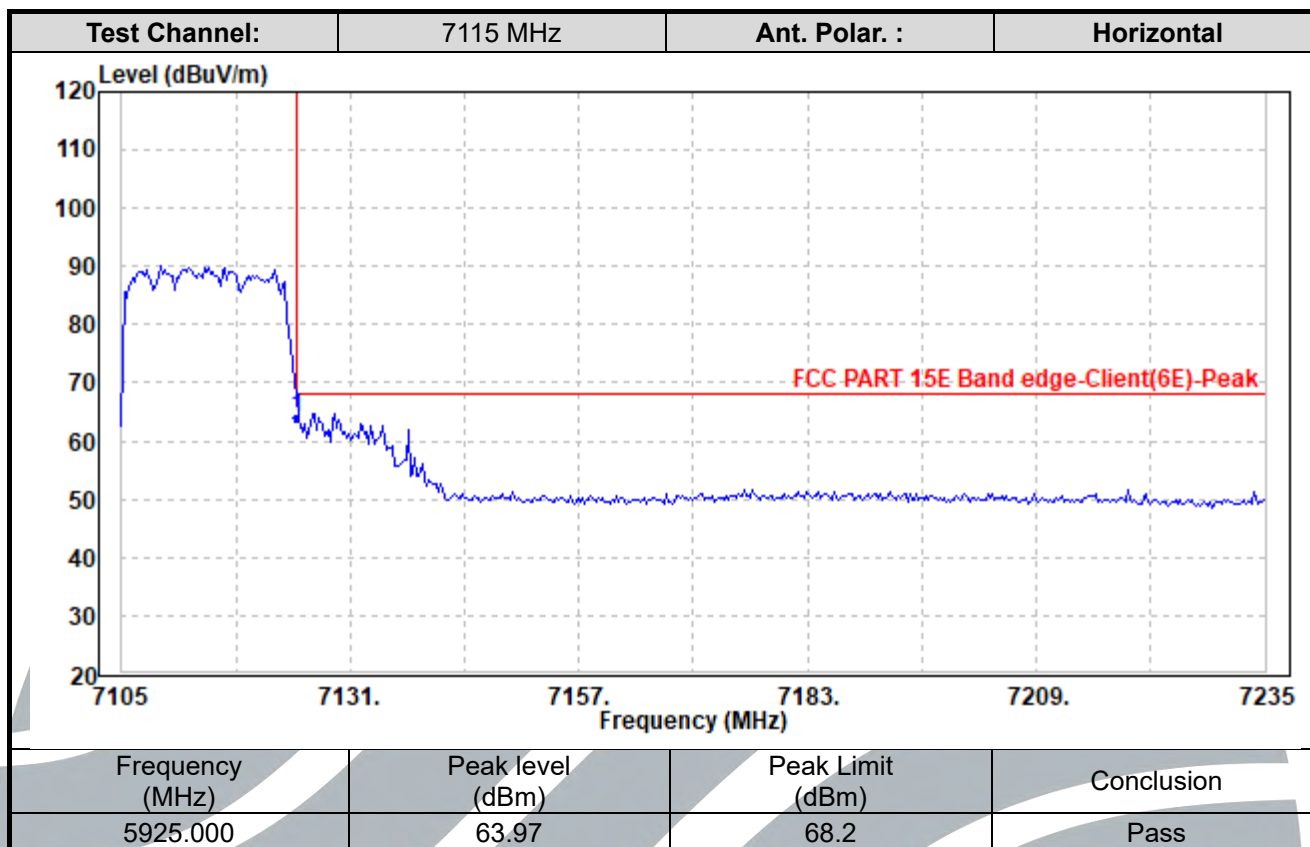
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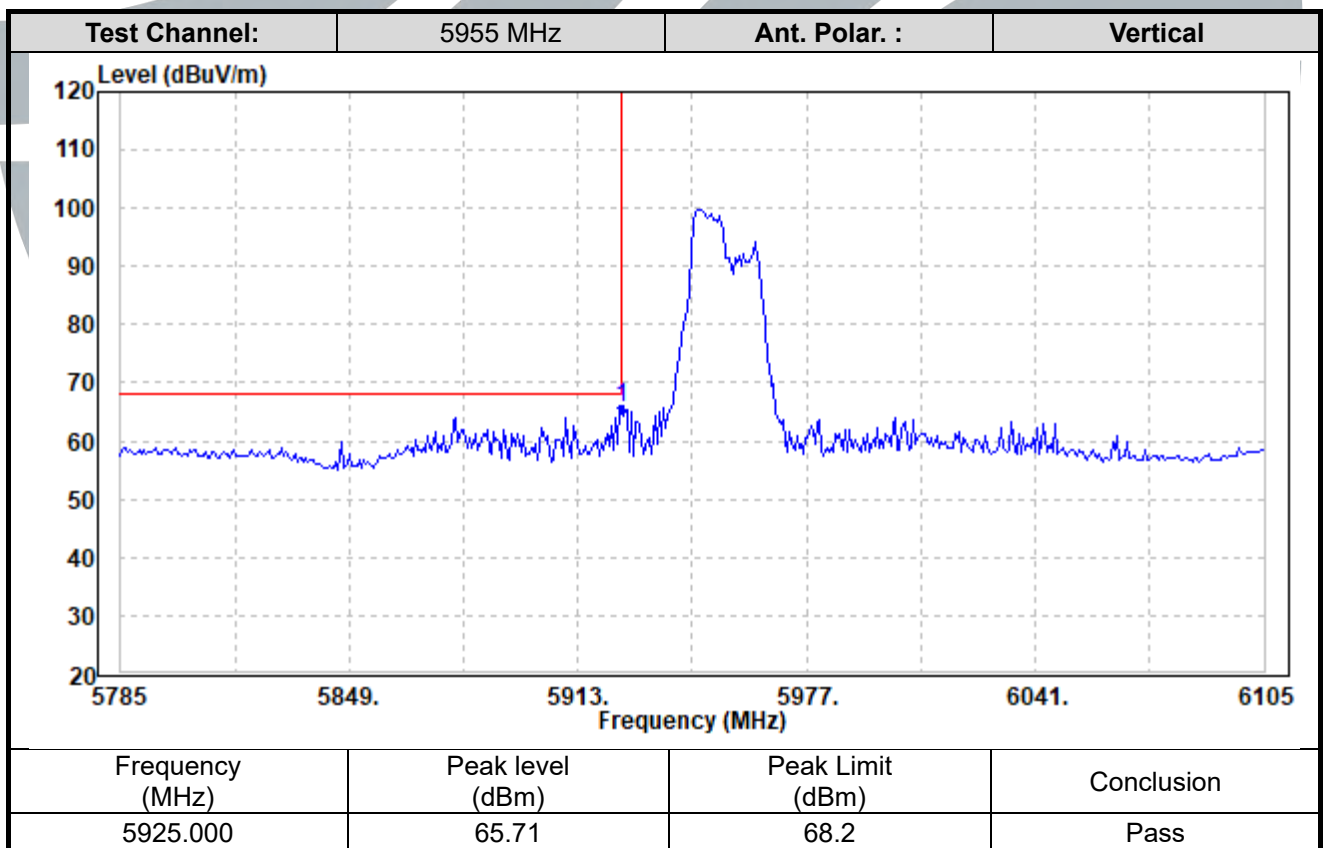
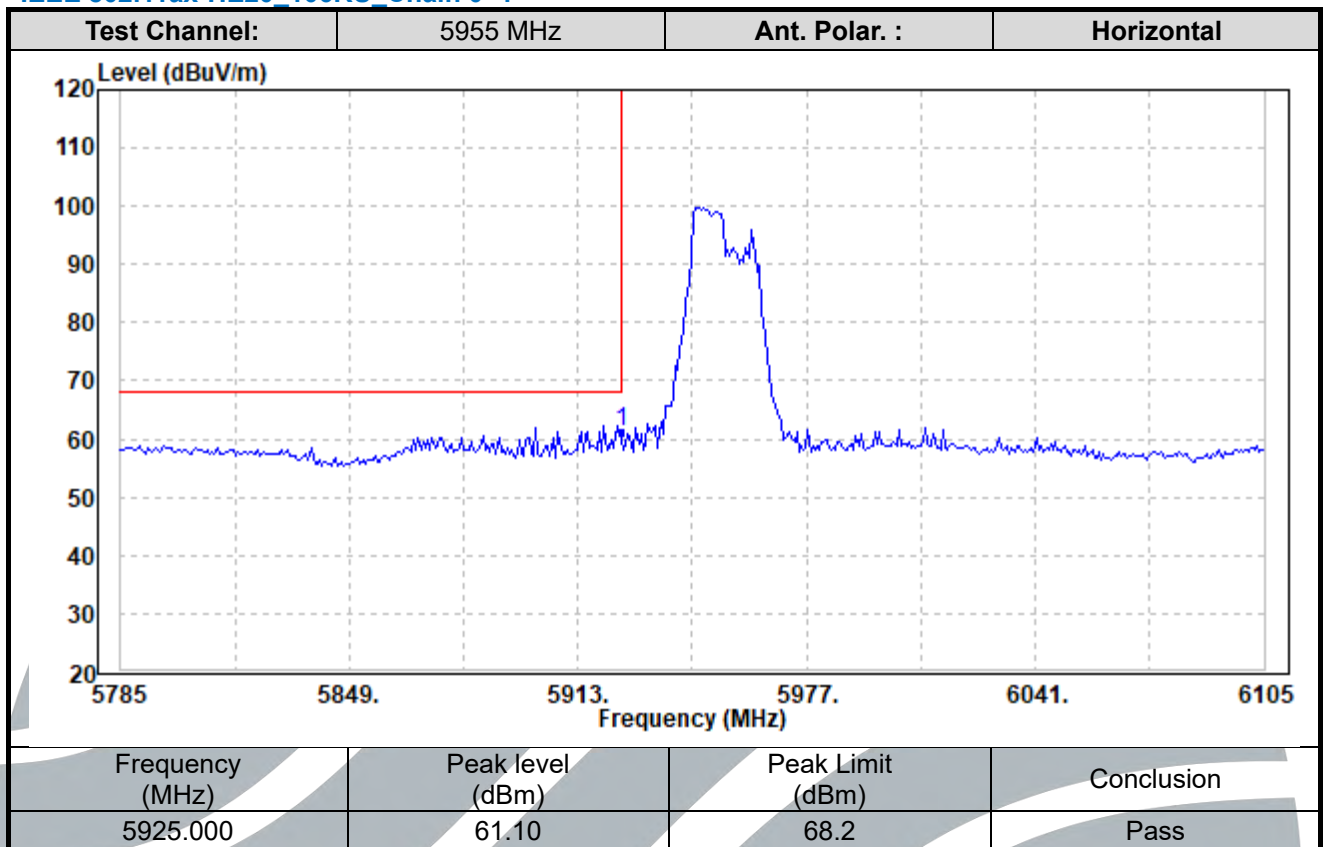
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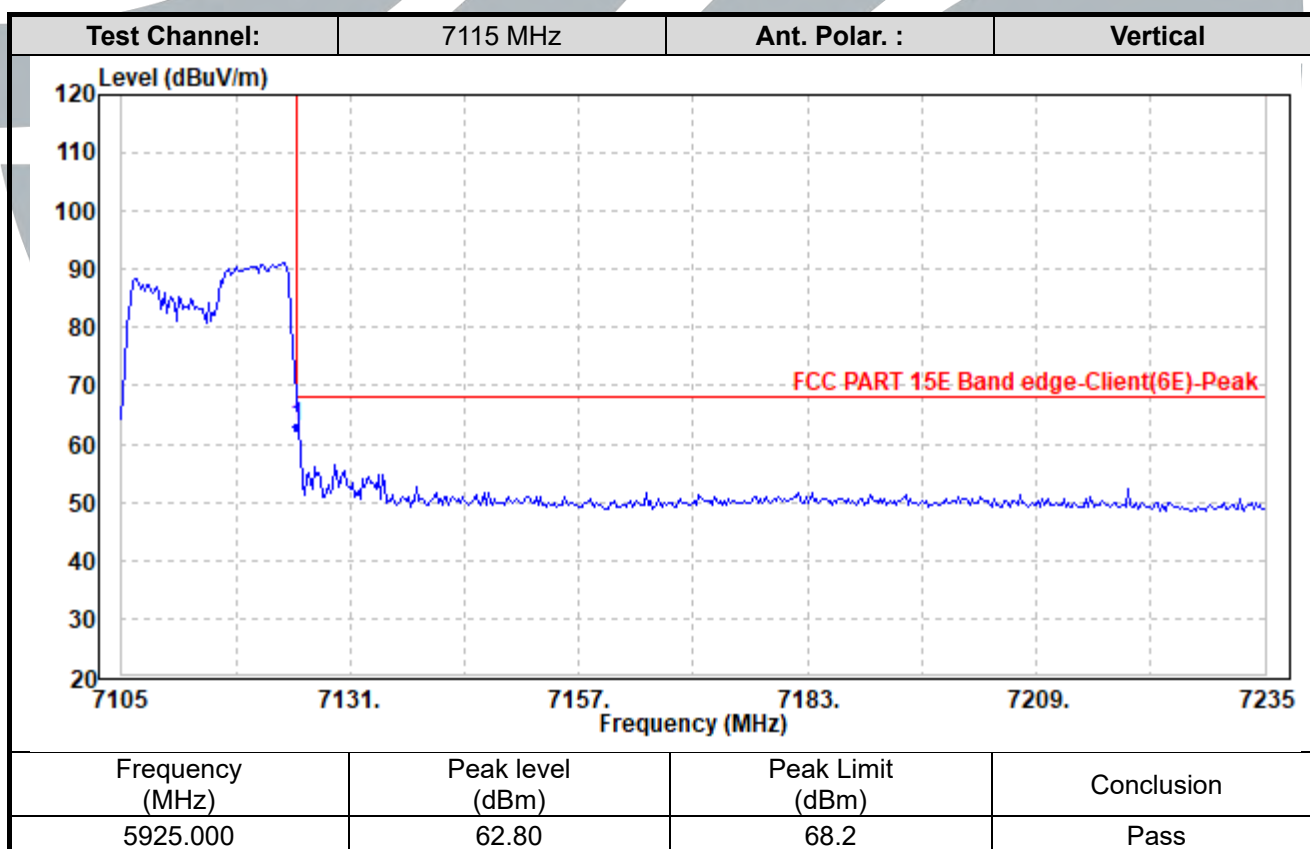
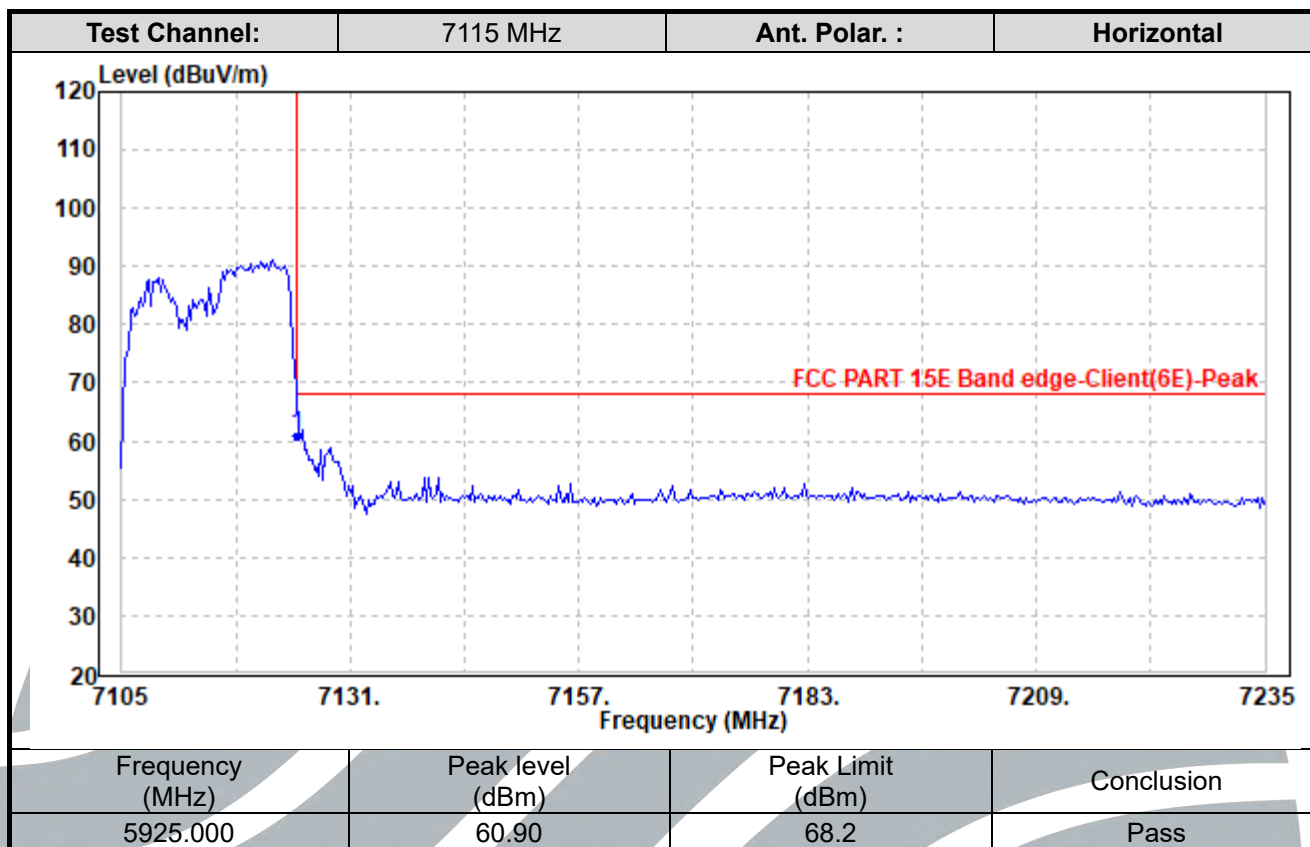
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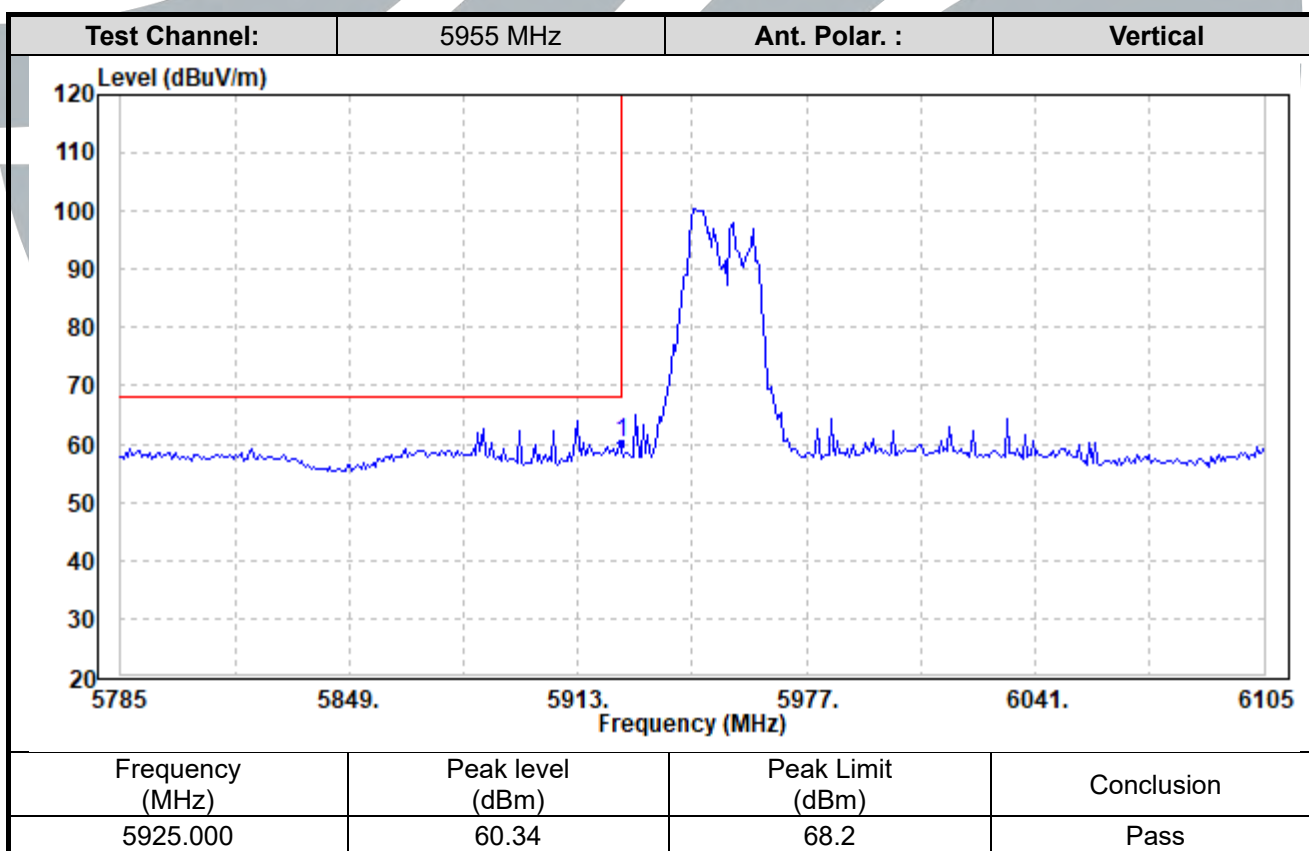
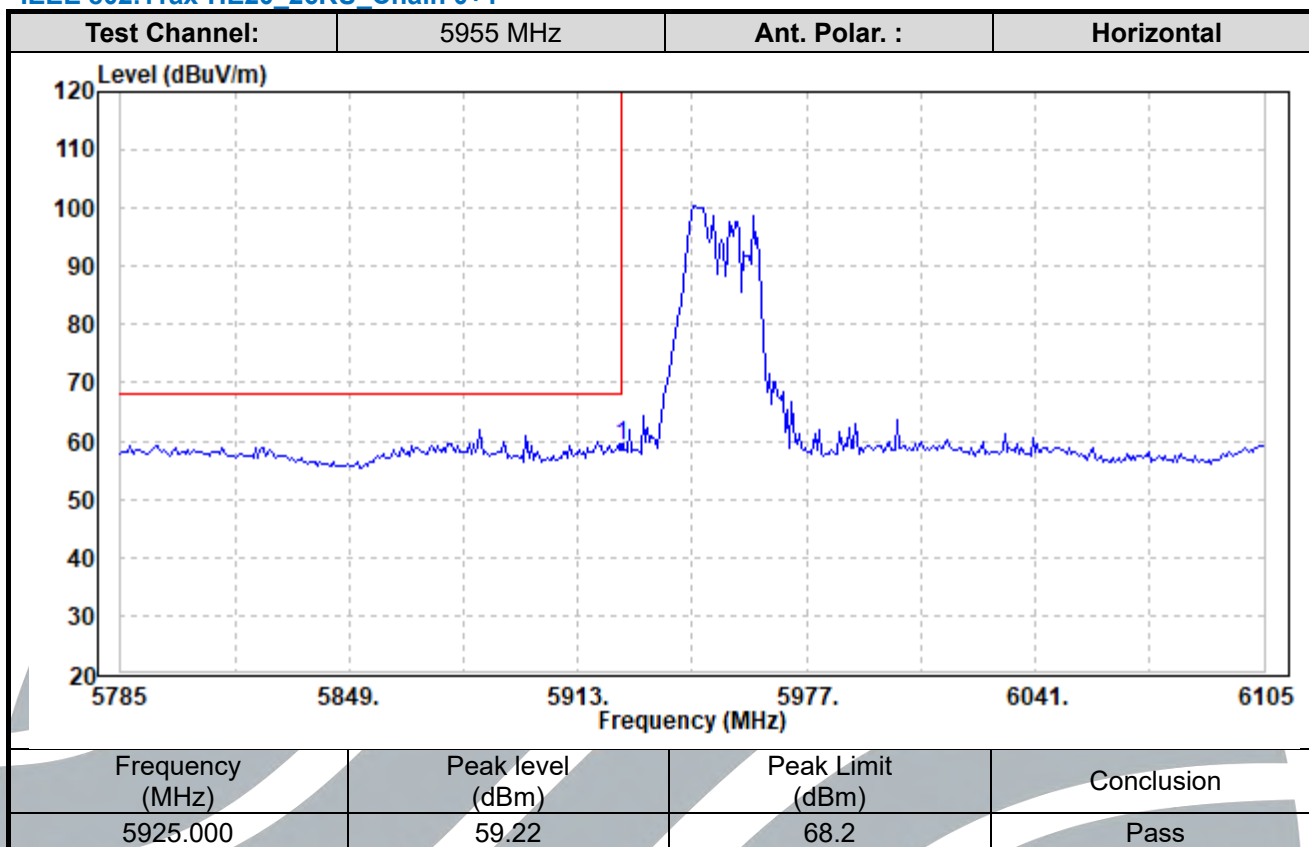
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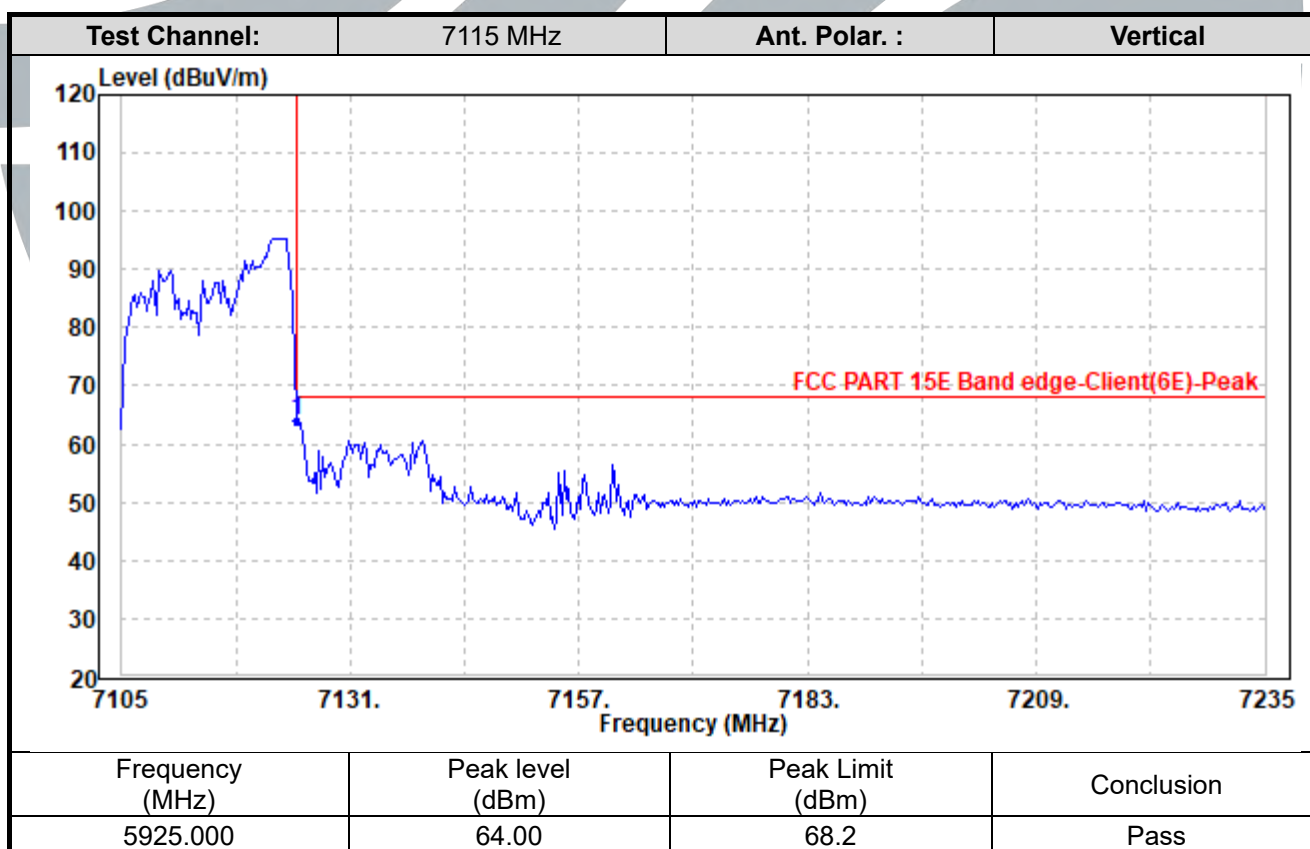
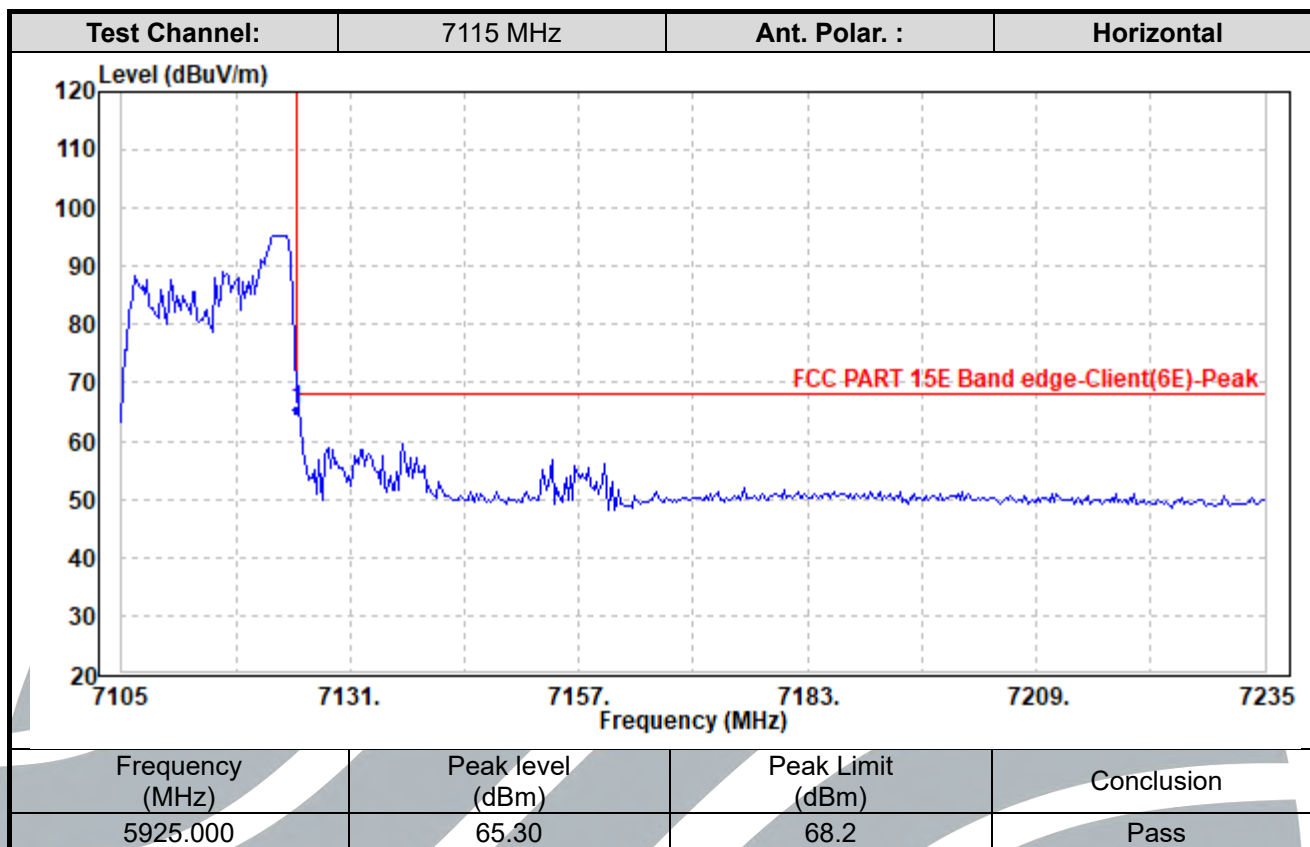
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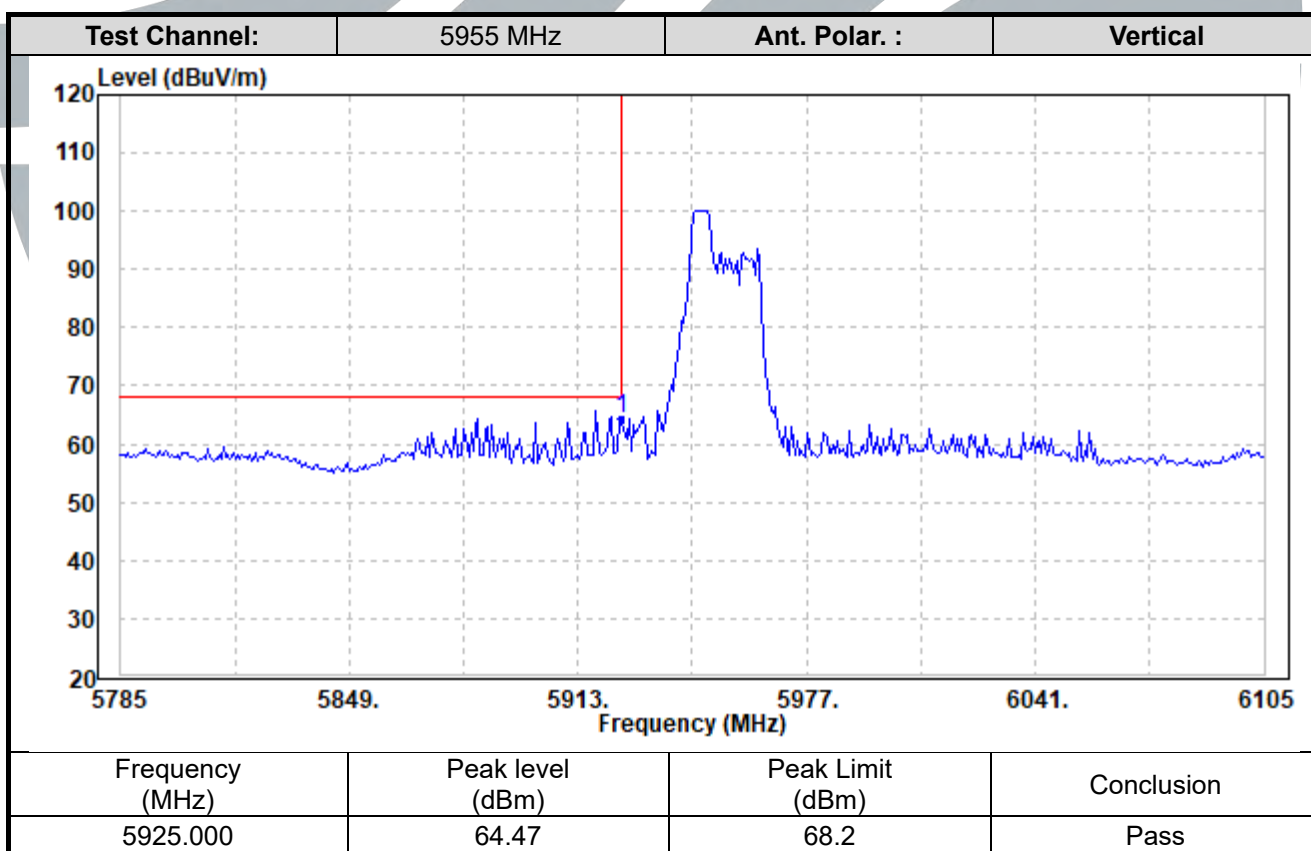
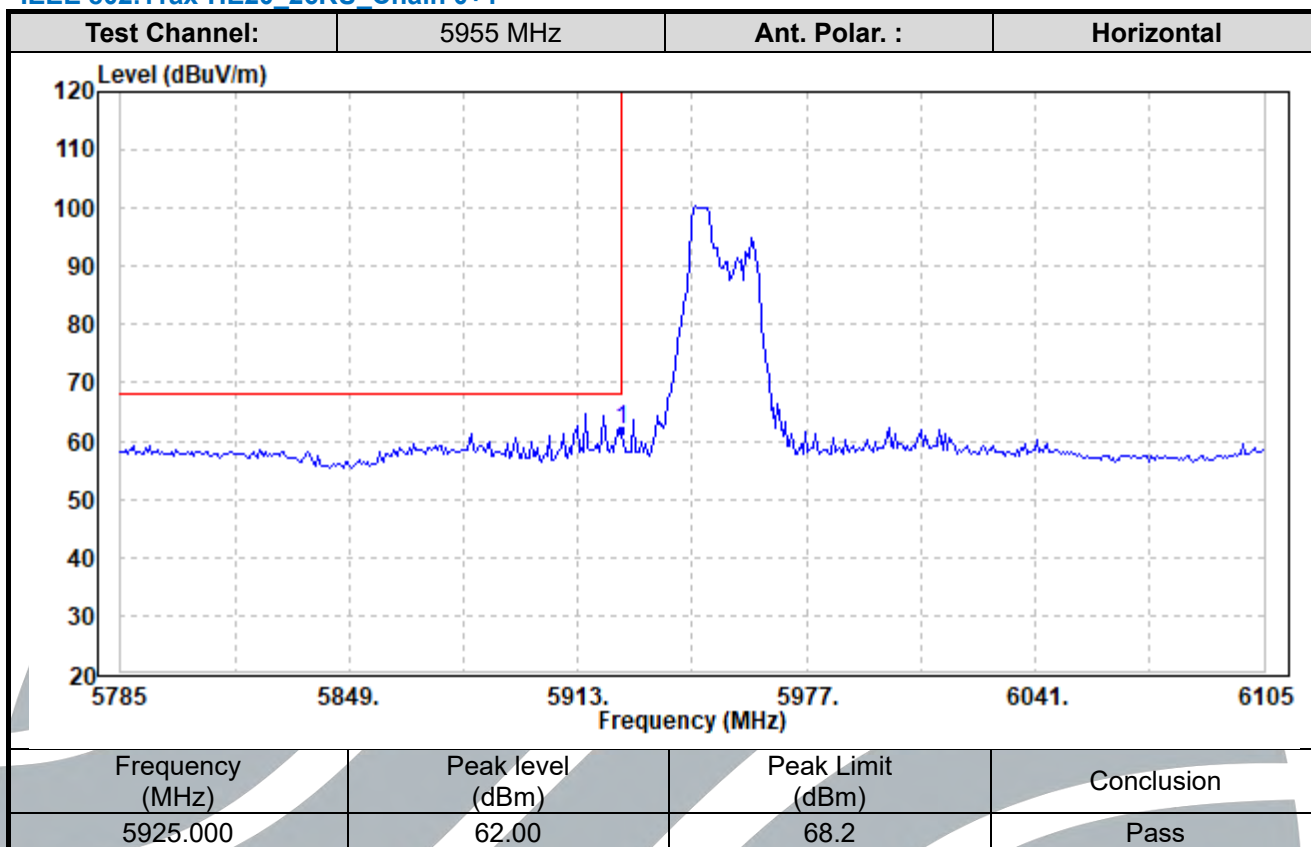
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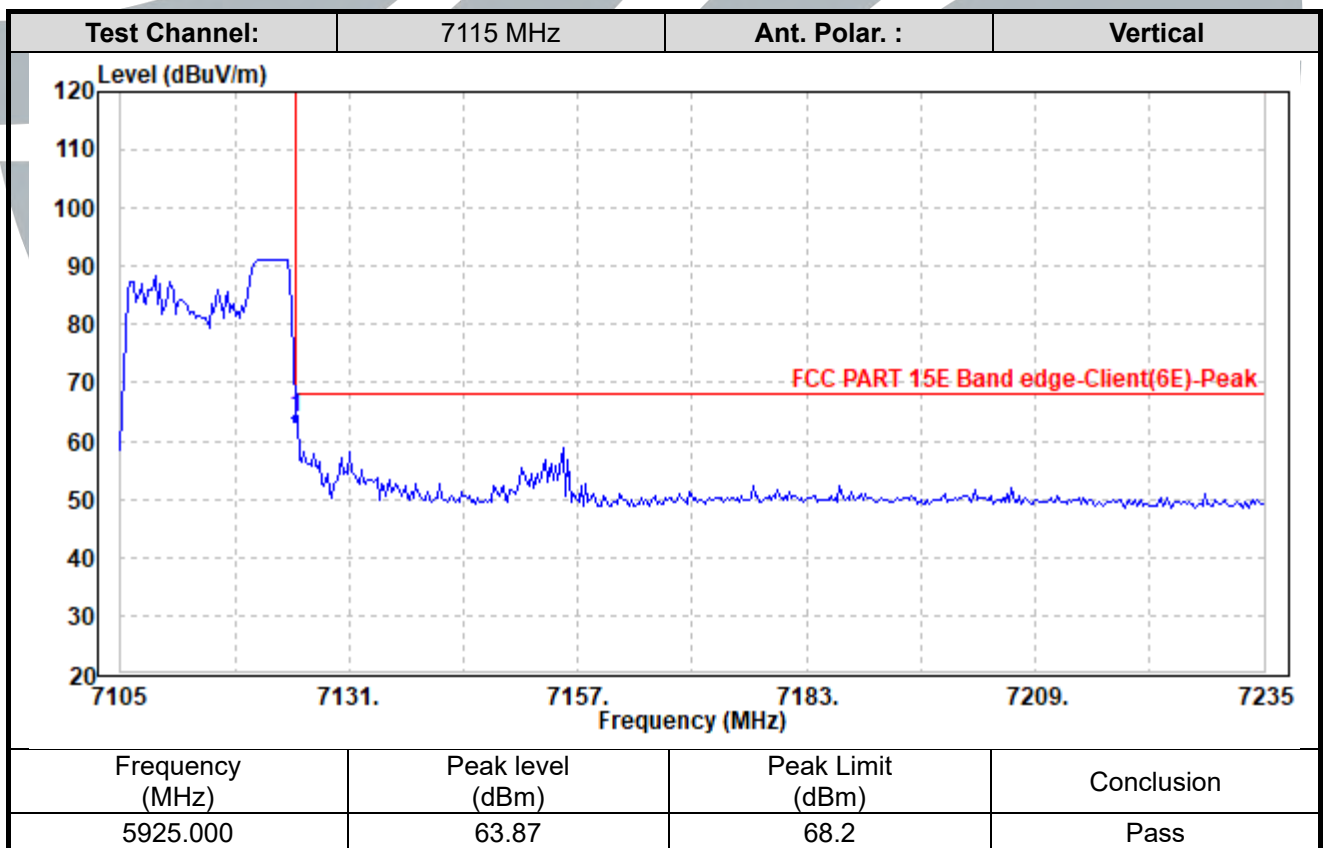
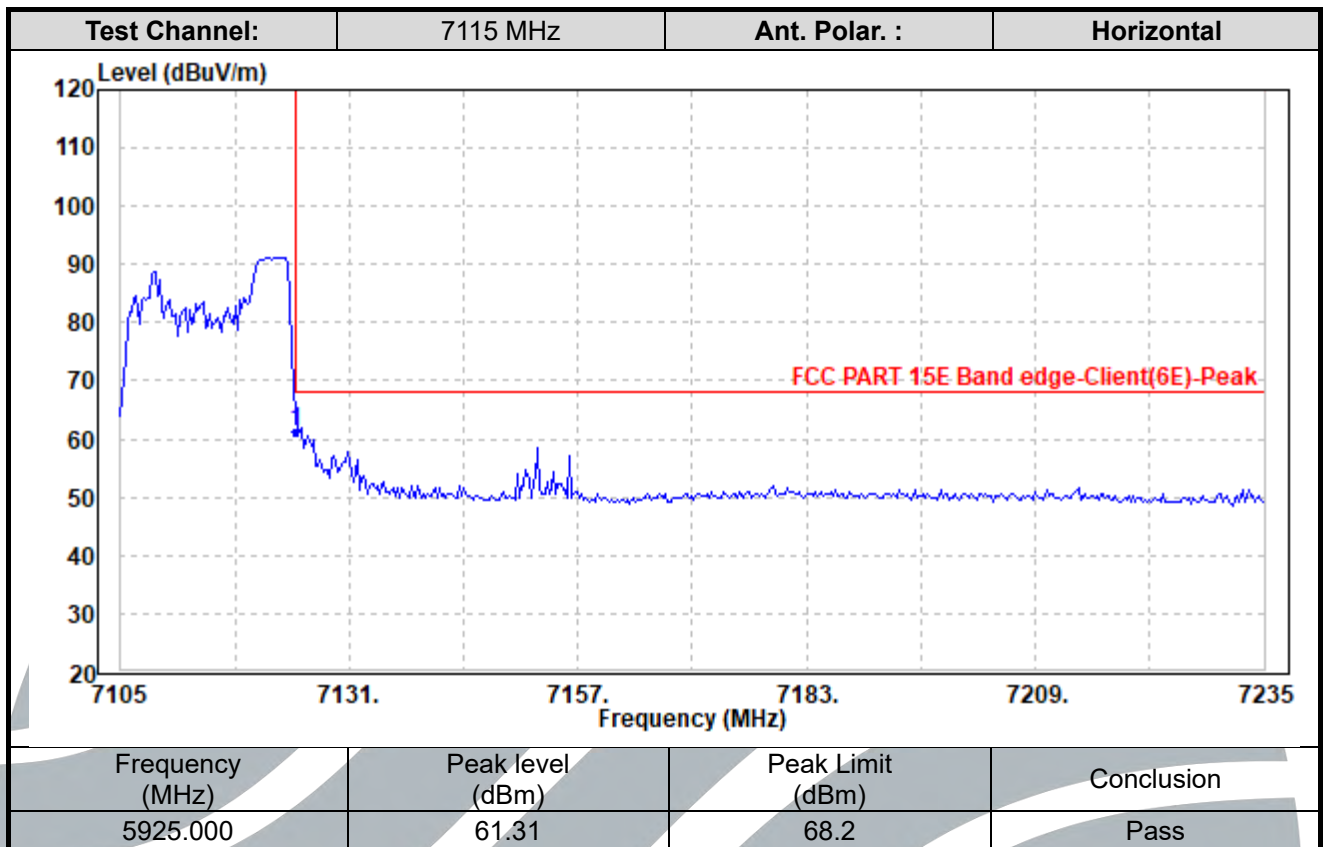
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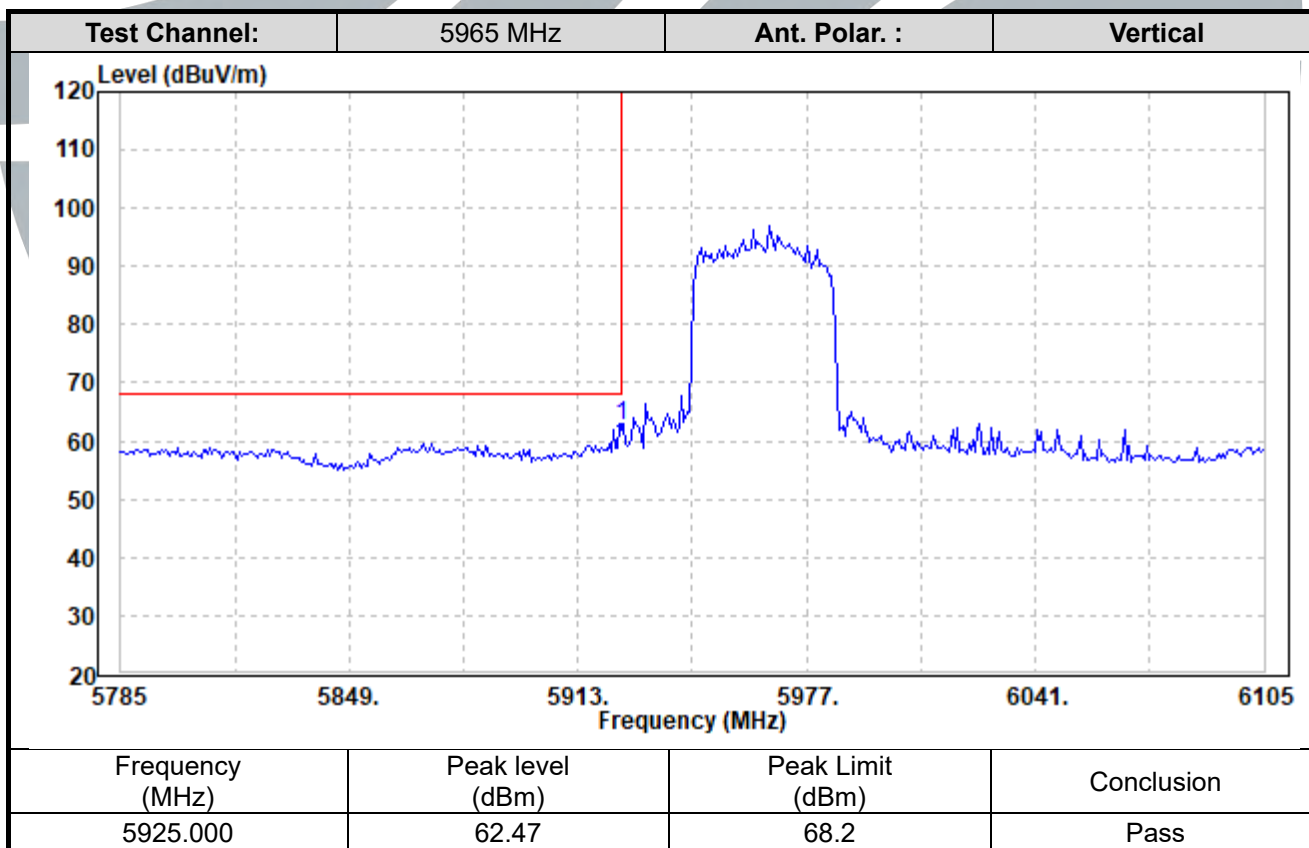
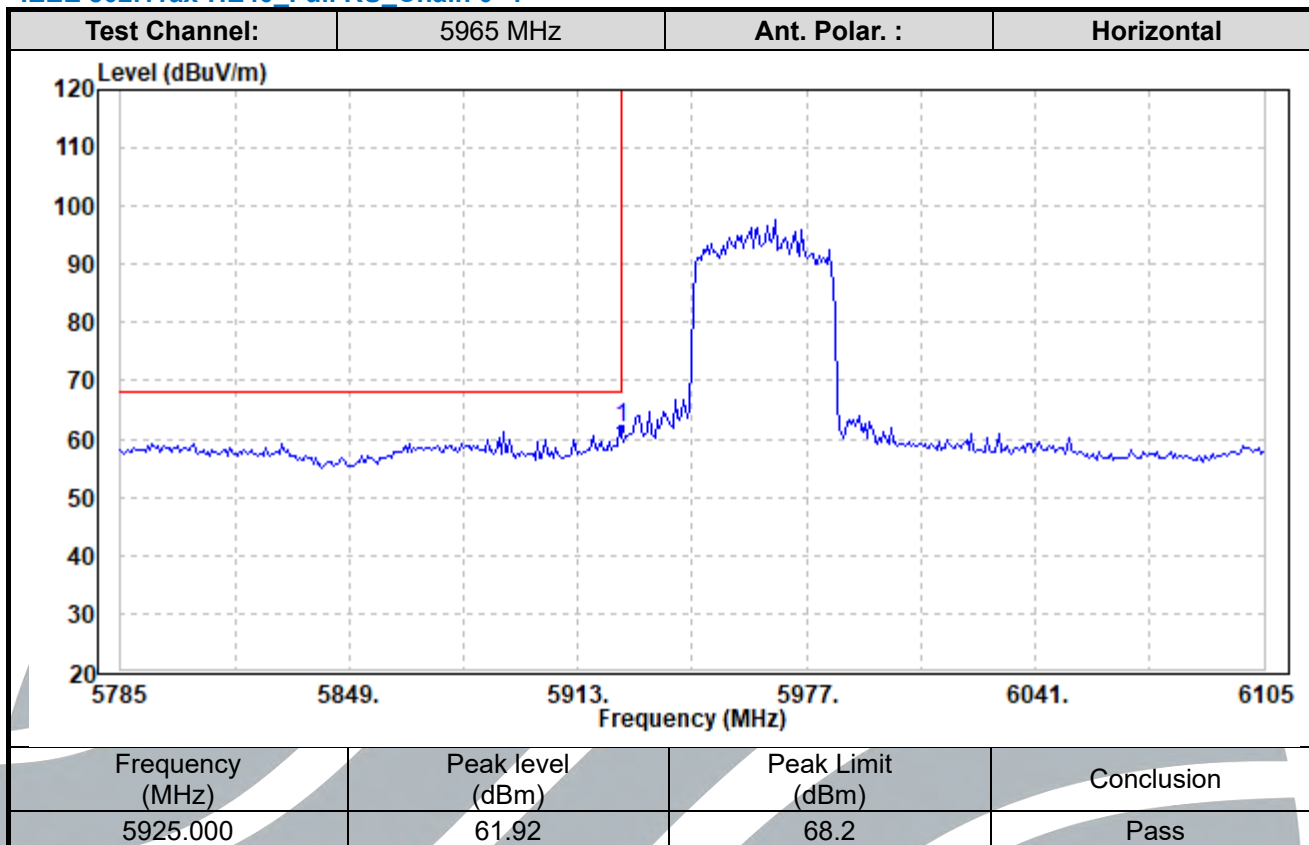
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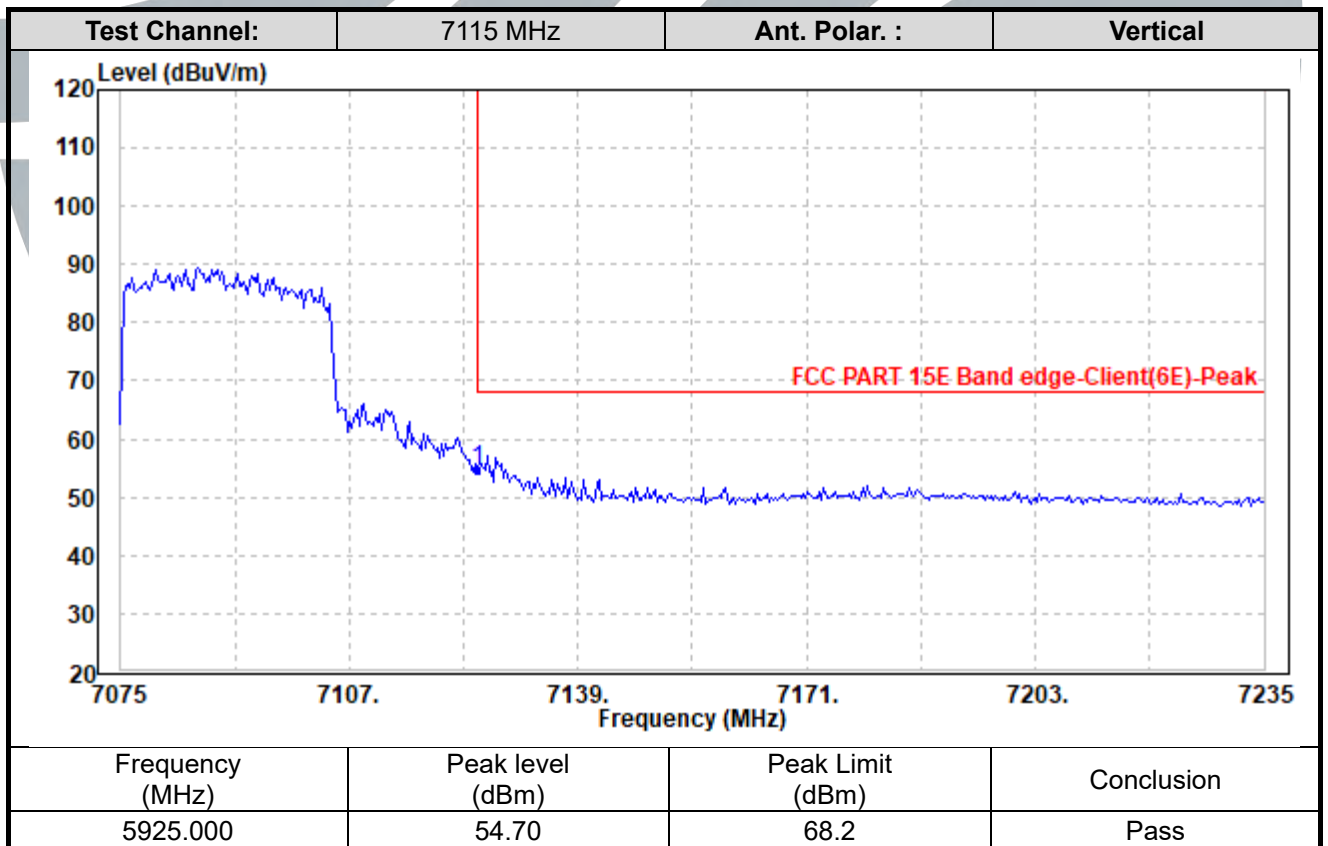
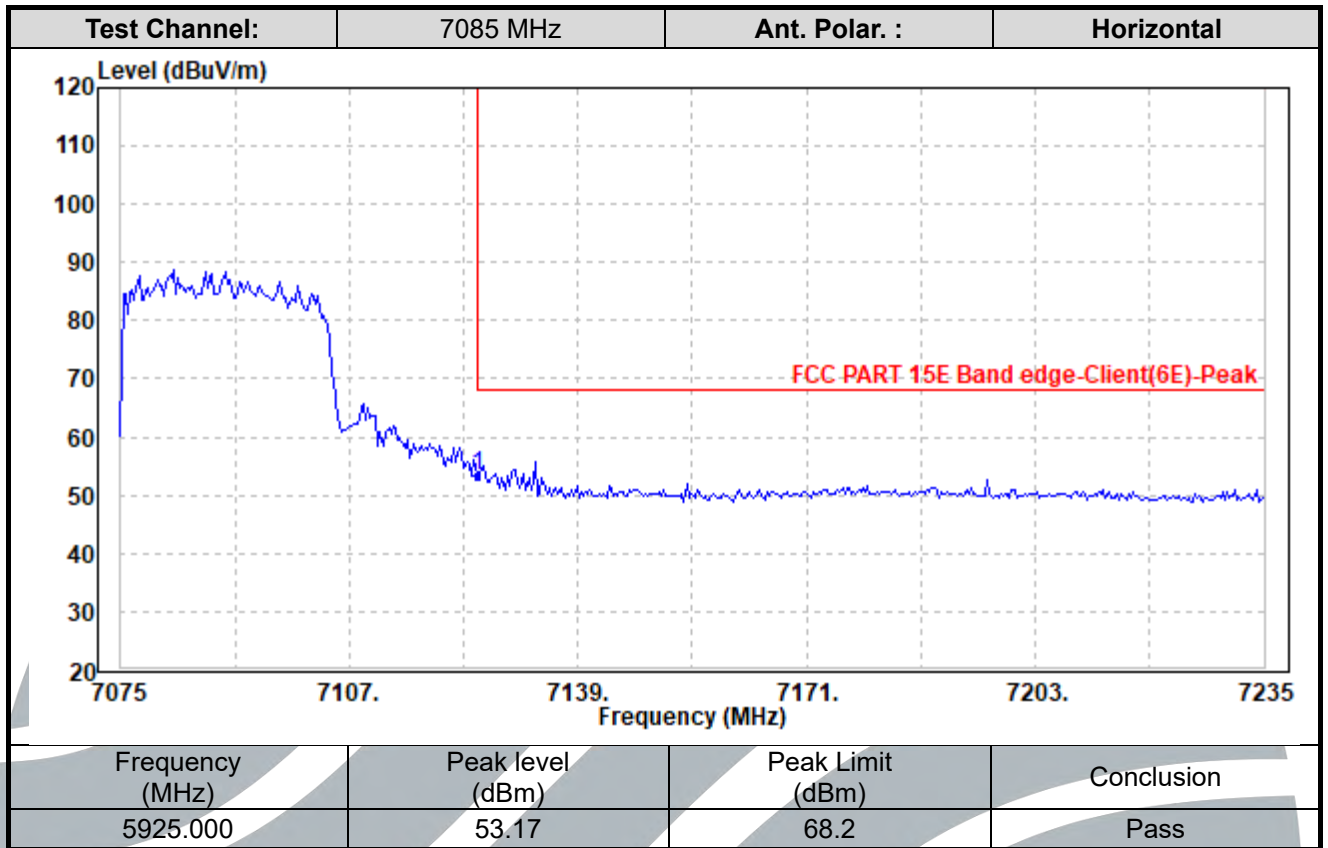
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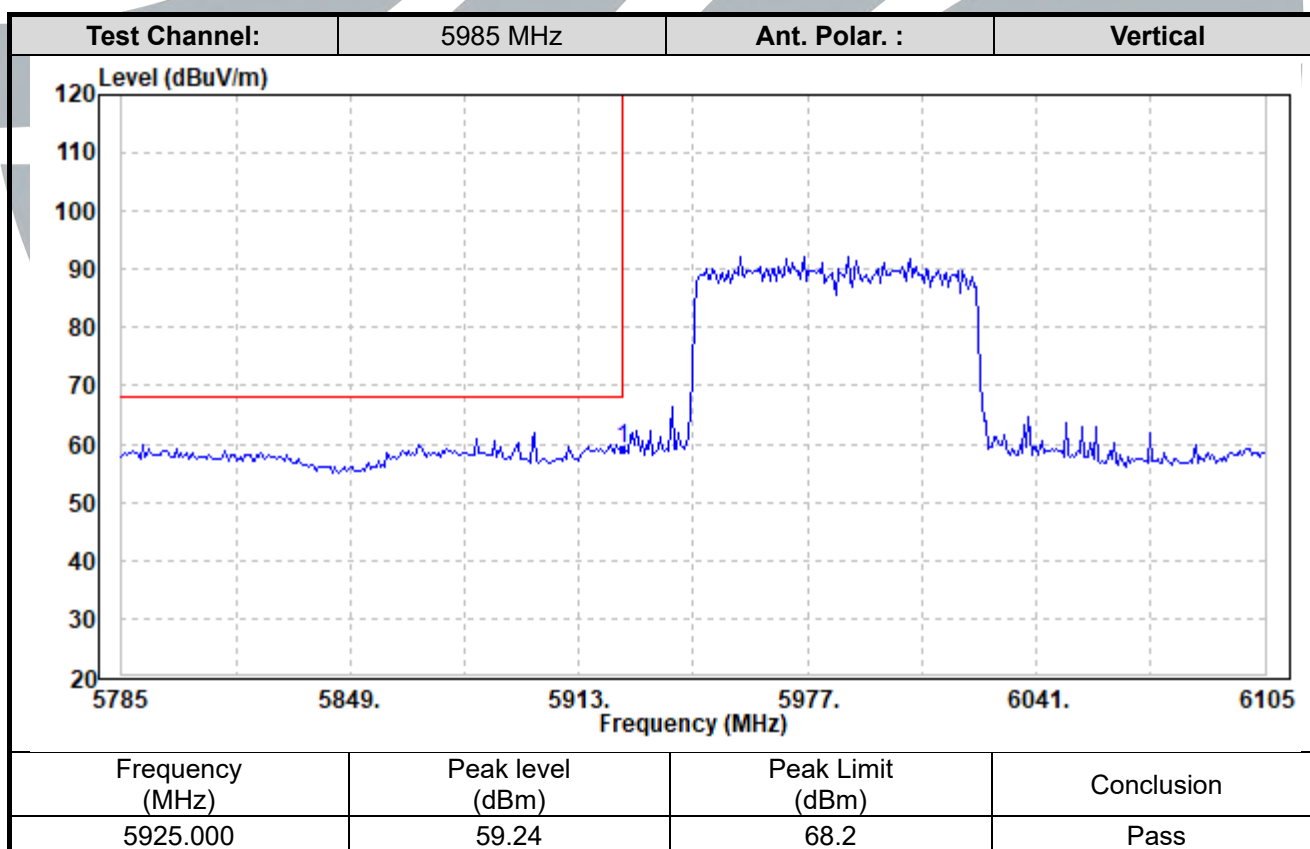
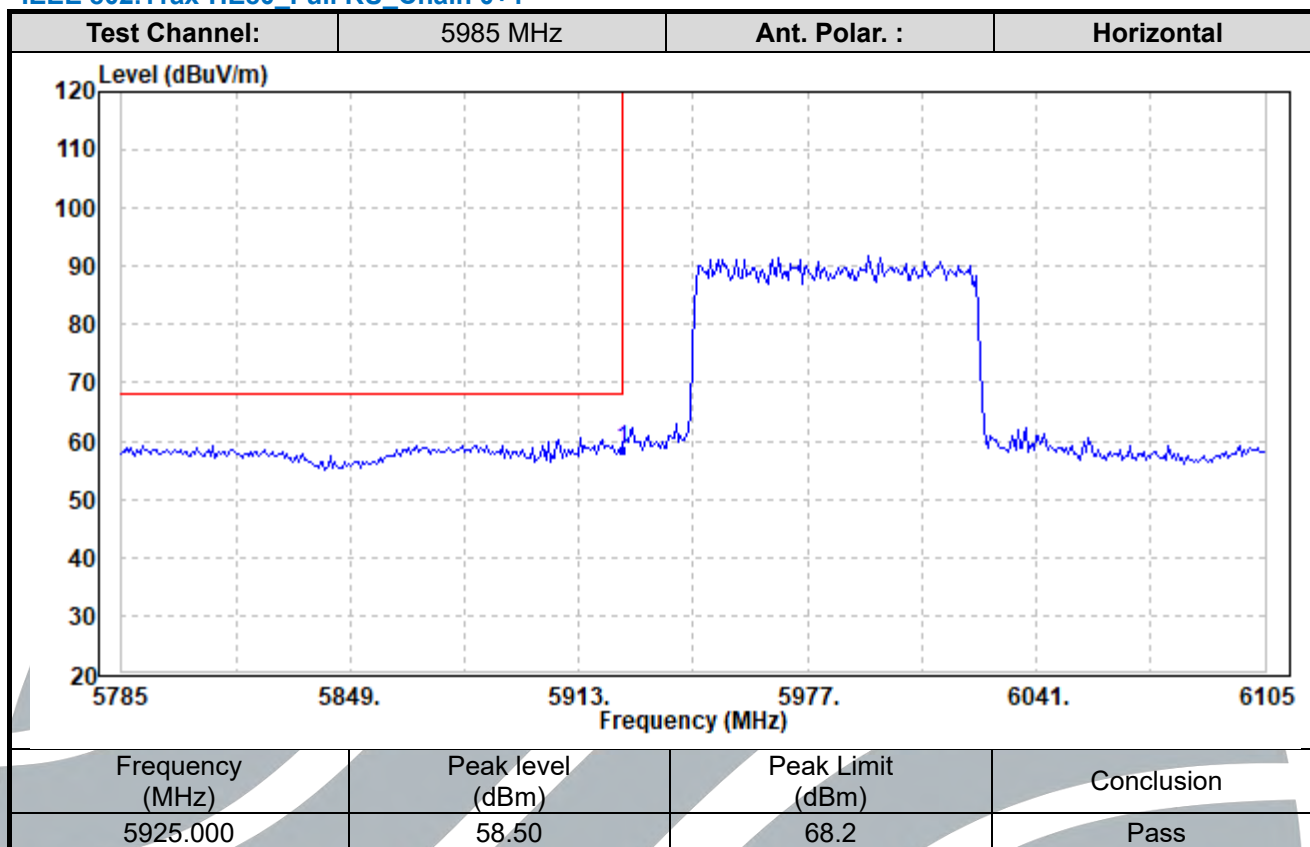
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IEEE 802.11ax-HE80 Full RU Chain 0+1



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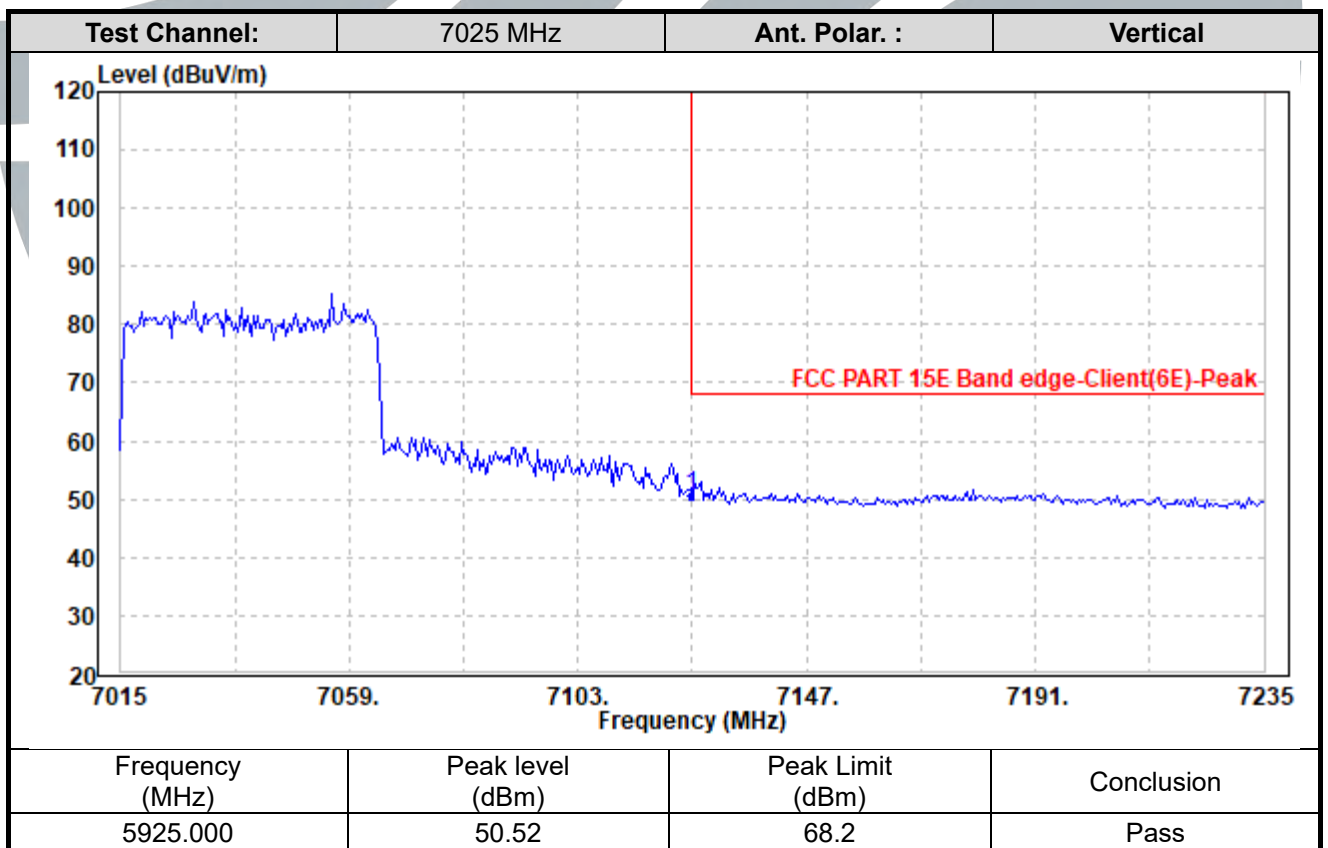
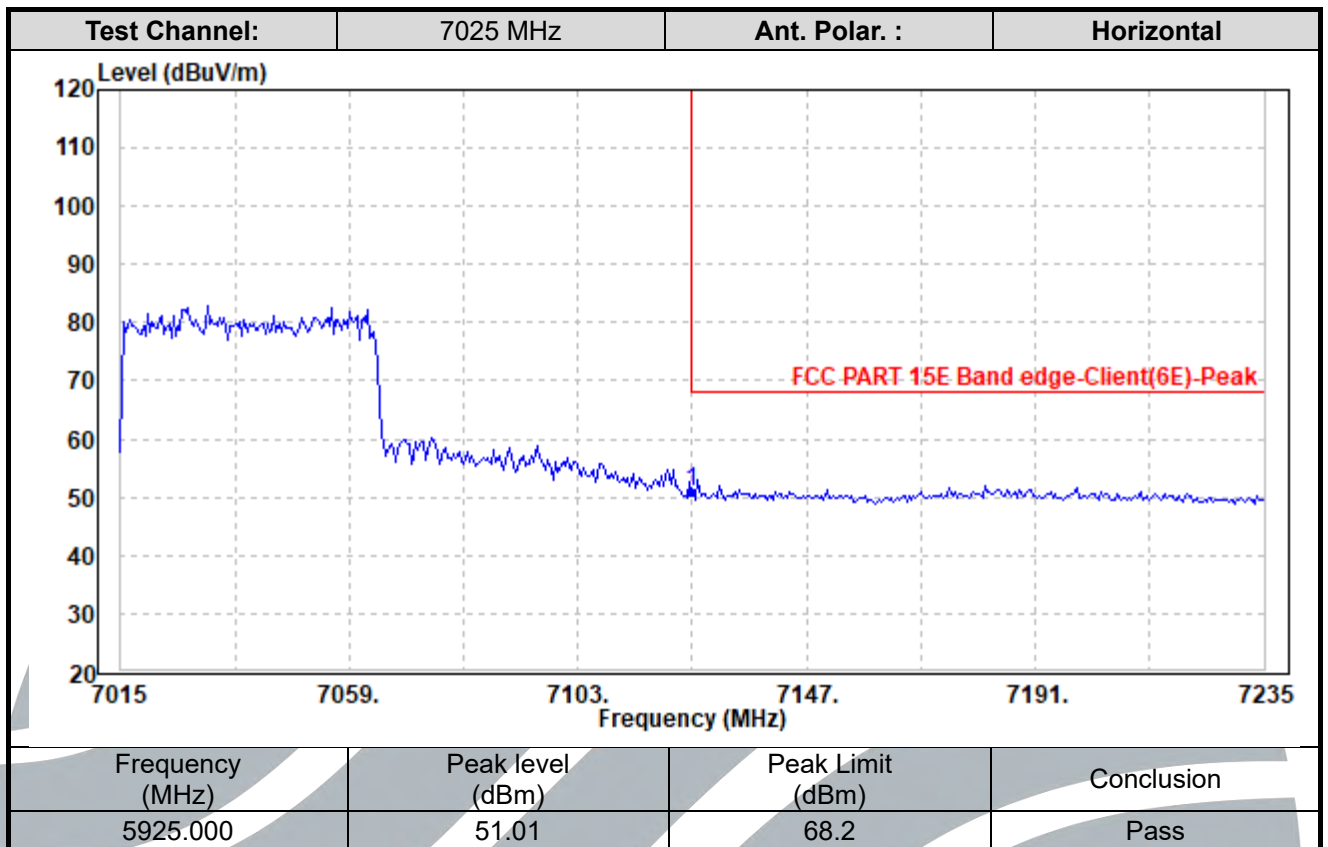
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5.10 AC POWER LINE CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 b(9)
FCC 47 CFR Part 15 Subpart C Section 15.207

Test Method: ANSI C63.10-2020 Section 6.2

Limits:

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.5.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

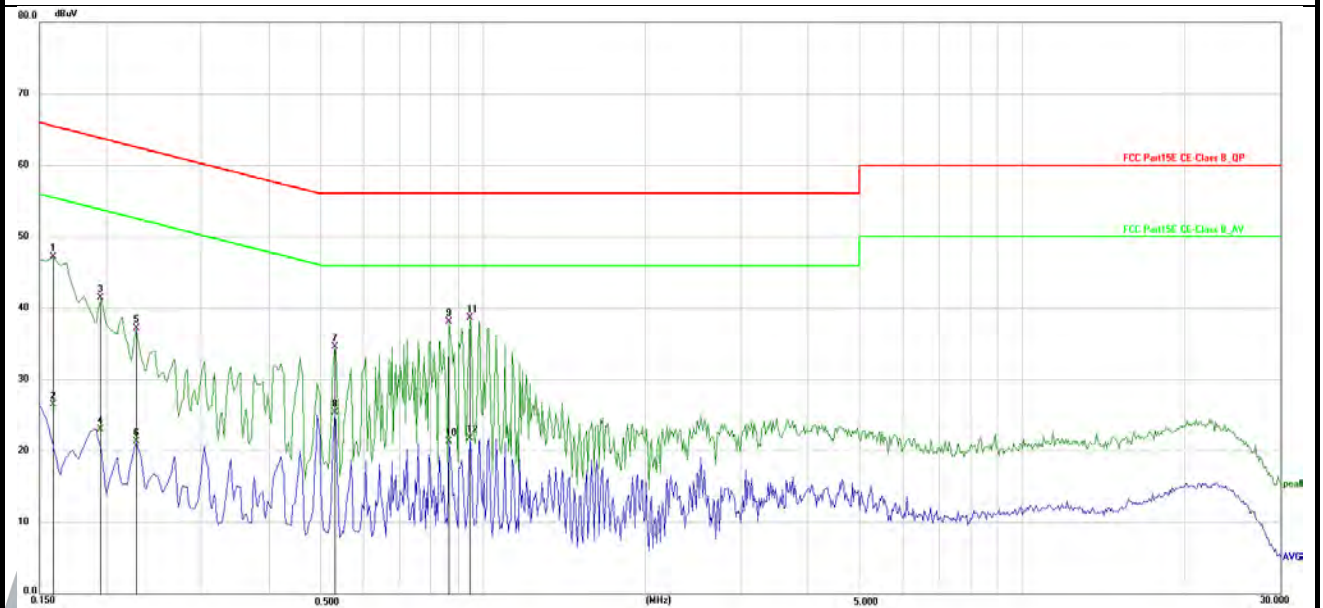
Test Result: Pass

The measurement data as follows:

Quasi Peak and Average:

Mode: Wi-Fi Link

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1590	36.87	10.30	47.17	65.52	-18.35	QP
2	0.1590	16.21	10.30	26.51	55.52	-29.01	AVG
3	0.1949	31.14	10.28	41.42	63.83	-22.41	QP
4	0.1949	12.83	10.28	23.11	53.83	-30.72	AVG
5	0.2265	26.92	10.26	37.18	62.58	-25.40	QP
6	0.2265	11.15	10.26	21.41	52.58	-31.17	AVG
7	0.5280	24.46	10.20	34.66	56.00	-21.34	QP
8	0.5280	15.22	10.20	25.42	46.00	-20.58	AVG
9	0.8655	27.91	10.17	38.08	56.00	-17.92	QP
10	0.8655	11.25	10.17	21.42	46.00	-24.58	AVG
11	0.9465	28.50	10.17	38.67	56.00	-17.33	QP
12	0.9465	11.65	10.17	21.82	46.00	-24.18	AVG

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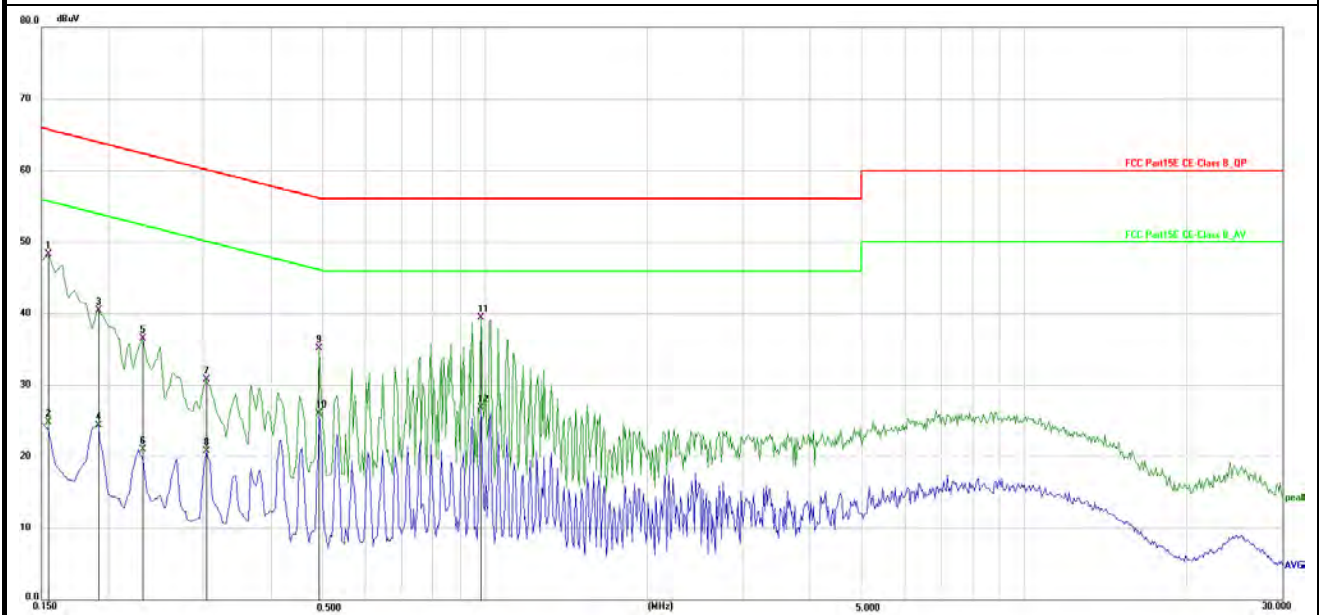
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Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1544	38.01	10.30	48.31	65.76	-17.45	QP
2	0.1544	14.59	10.30	24.89	55.76	-30.87	AVG
3	0.1905	30.21	10.28	40.49	64.01	-23.52	QP
4	0.1905	14.08	10.28	24.36	54.01	-29.65	AVG
5	0.2310	26.23	10.25	36.48	62.41	-25.93	QP
6	0.2310	10.76	10.25	21.01	52.41	-31.40	AVG
7	0.3030	20.56	10.24	30.80	60.16	-29.36	QP
8	0.3030	10.60	10.24	20.84	50.16	-29.32	AVG
9	0.4920	24.93	10.19	35.12	56.13	-21.01	QP
10	0.4920	15.94	10.19	26.13	46.13	-20.00	AVG
11	0.9825	29.20	10.19	39.39	56.00	-16.61	QP
12	0.9825	16.63	10.19	26.82	46.00	-19.18	AVG

Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.

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APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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