

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

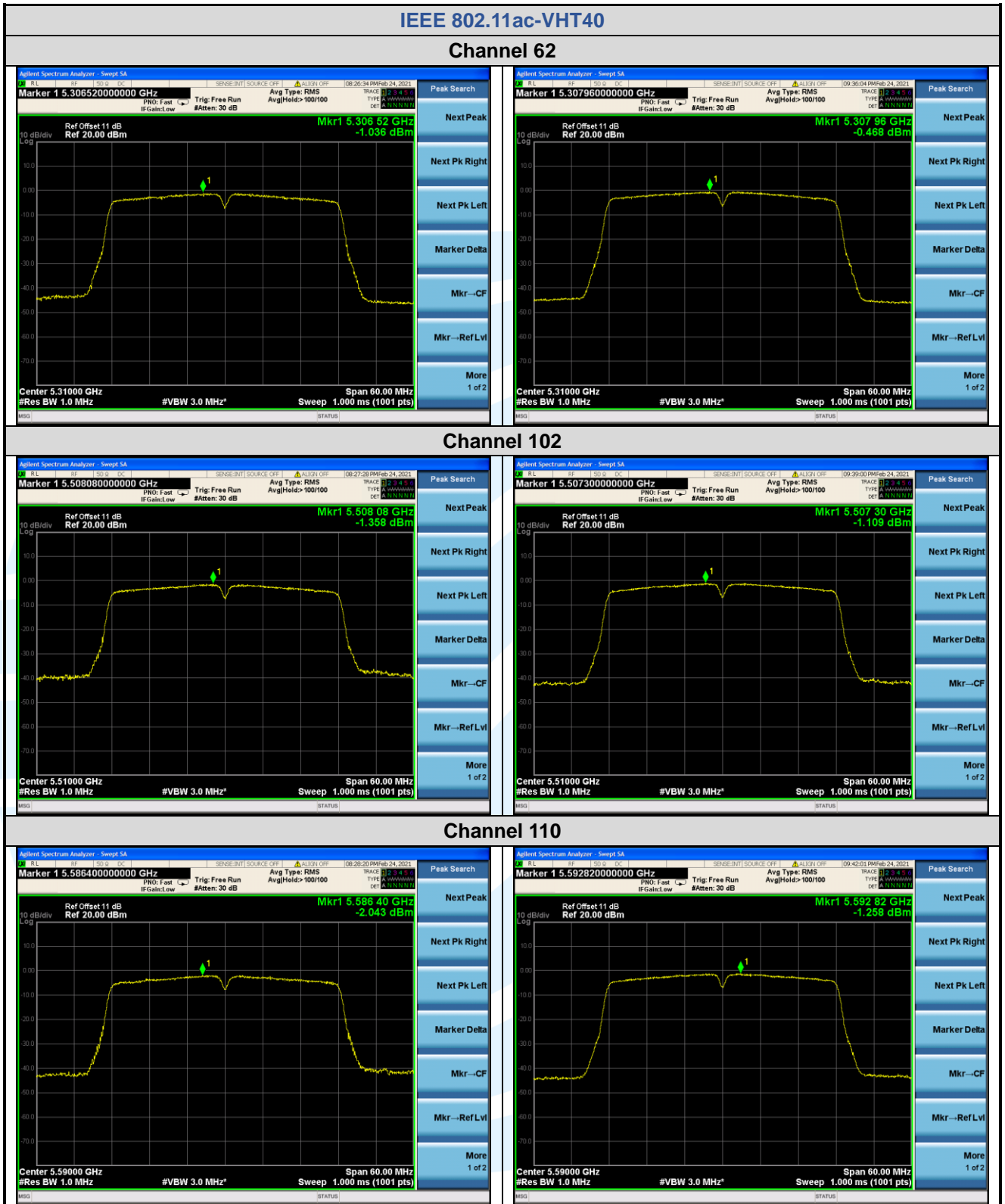
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UTTR-RF-FCCPART15.407-V1.1



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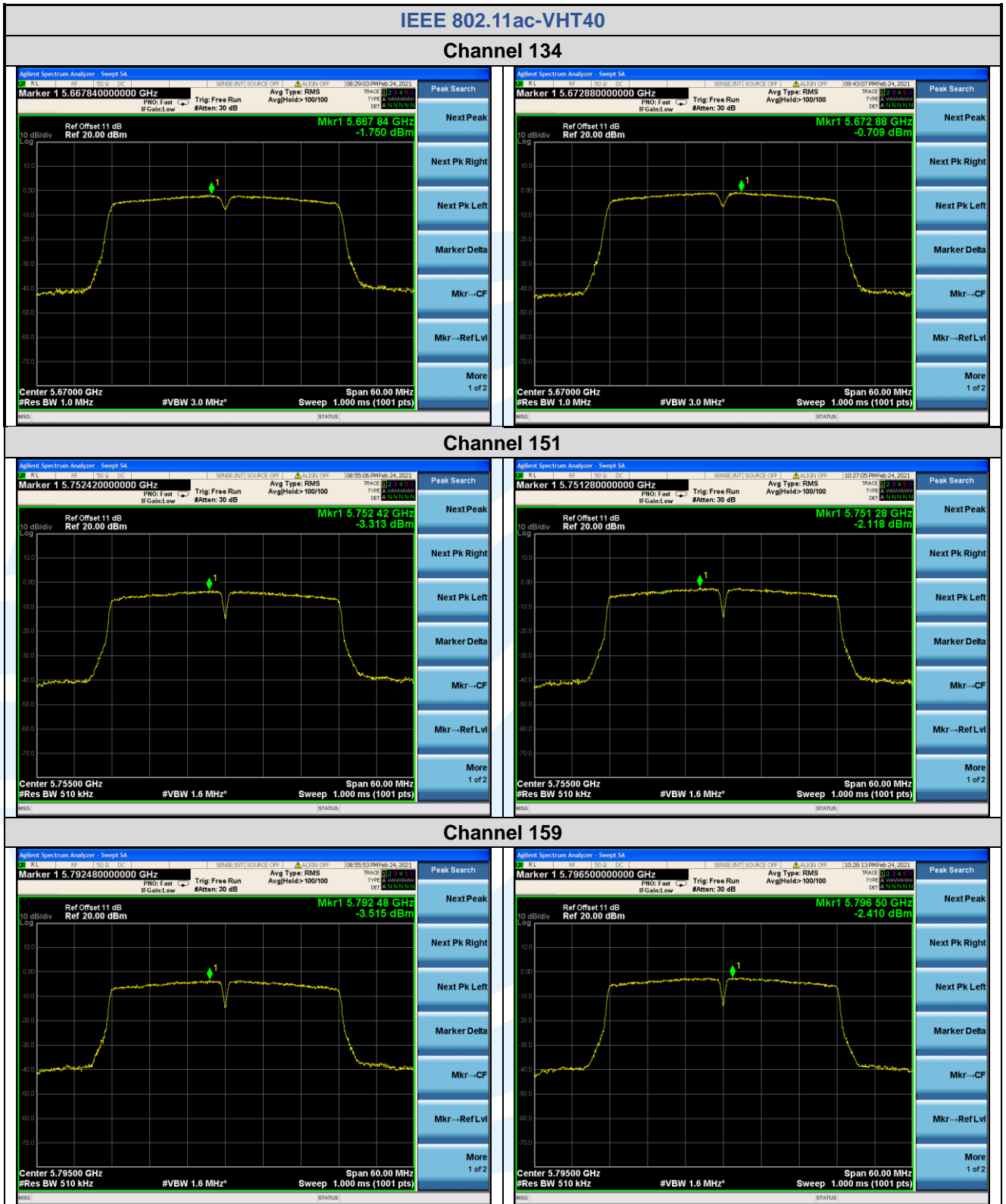
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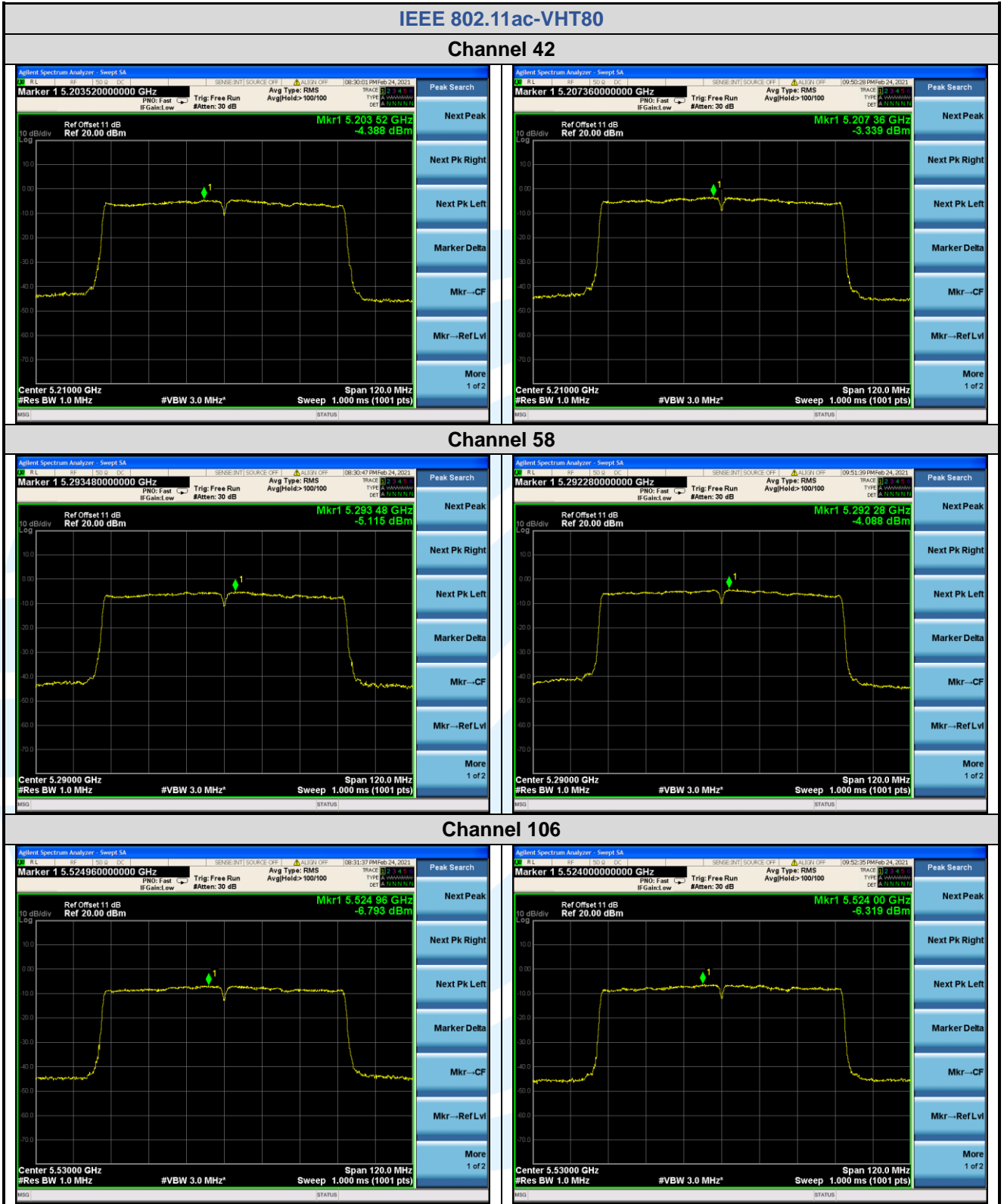
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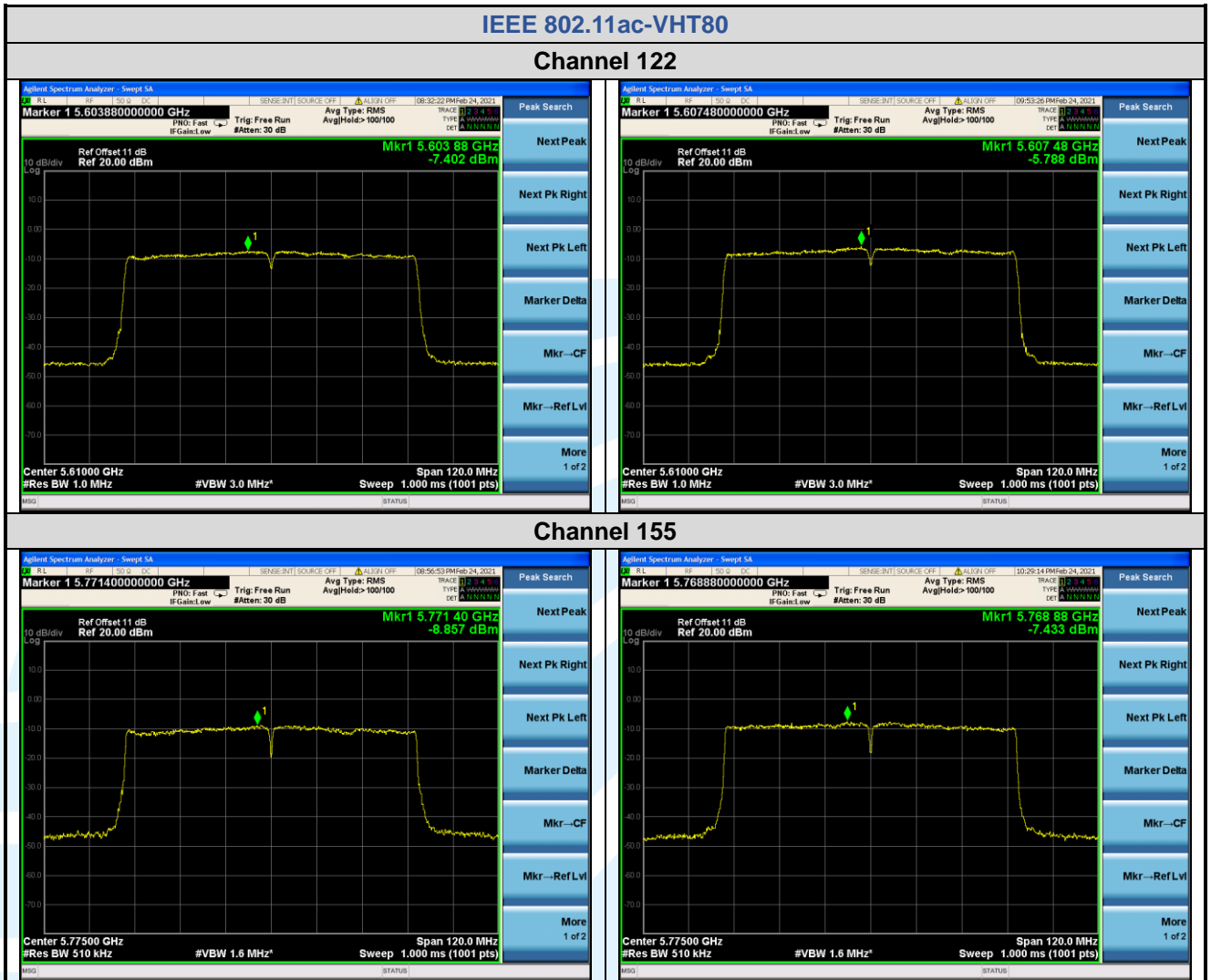
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### 5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

**Test Requirement:** FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)  
 FCC 47 CFR Part 15 Subpart C Section 15.209/205

**Test Method:** KDB 789033 D02 v02r01 Section 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:**

- a. The lower limit shall apply at the transition frequencies.
- b. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- c. 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**

Applicable To	Limit	
<b>789033 D02 General U-NII Test Procedures New Rules v01r04</b>	<b>Field Strength at 3 m</b>	
	<b>PK: 74 (dBμV/m)</b>	<b>AV: 54 (dBμV/m)</b>
Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
FCC Part 15.407 (b)(1)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(2)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
FCC Part 15.407 (b)(4)	27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;	PK: 68.2 (dBμV/m)
	15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;	
	10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges;	
	-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.	

**Test Setup:** Refer to section 4.5.1 for details.

**Test Procedures:**

1. 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.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. 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.
4. 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.
5. 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.
6. 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.

**Remark:**

- a) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- b) 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.
- c) 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/duty cycle)).
- d) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) or ≥ 1/T(duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- e) All modes of operation were investigated and the worst-case emissions are reported.

**Equipment Used:** Refer to section 3 for details.

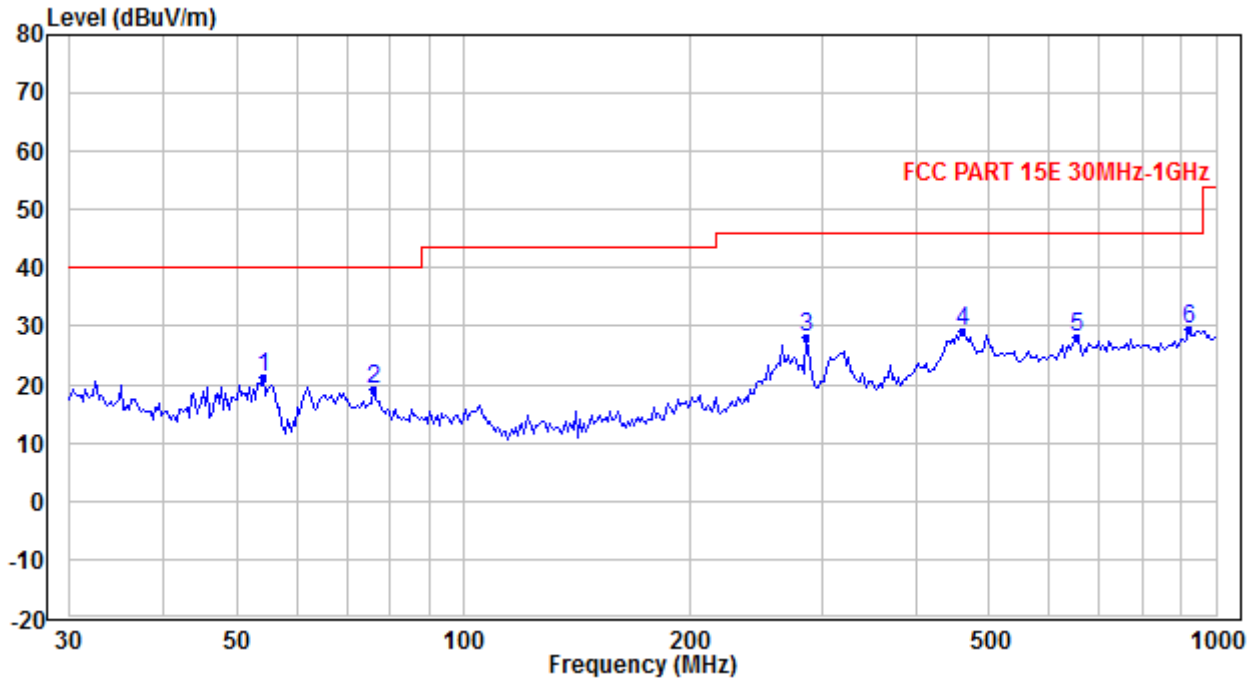
**Test Result:** Pass

**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.

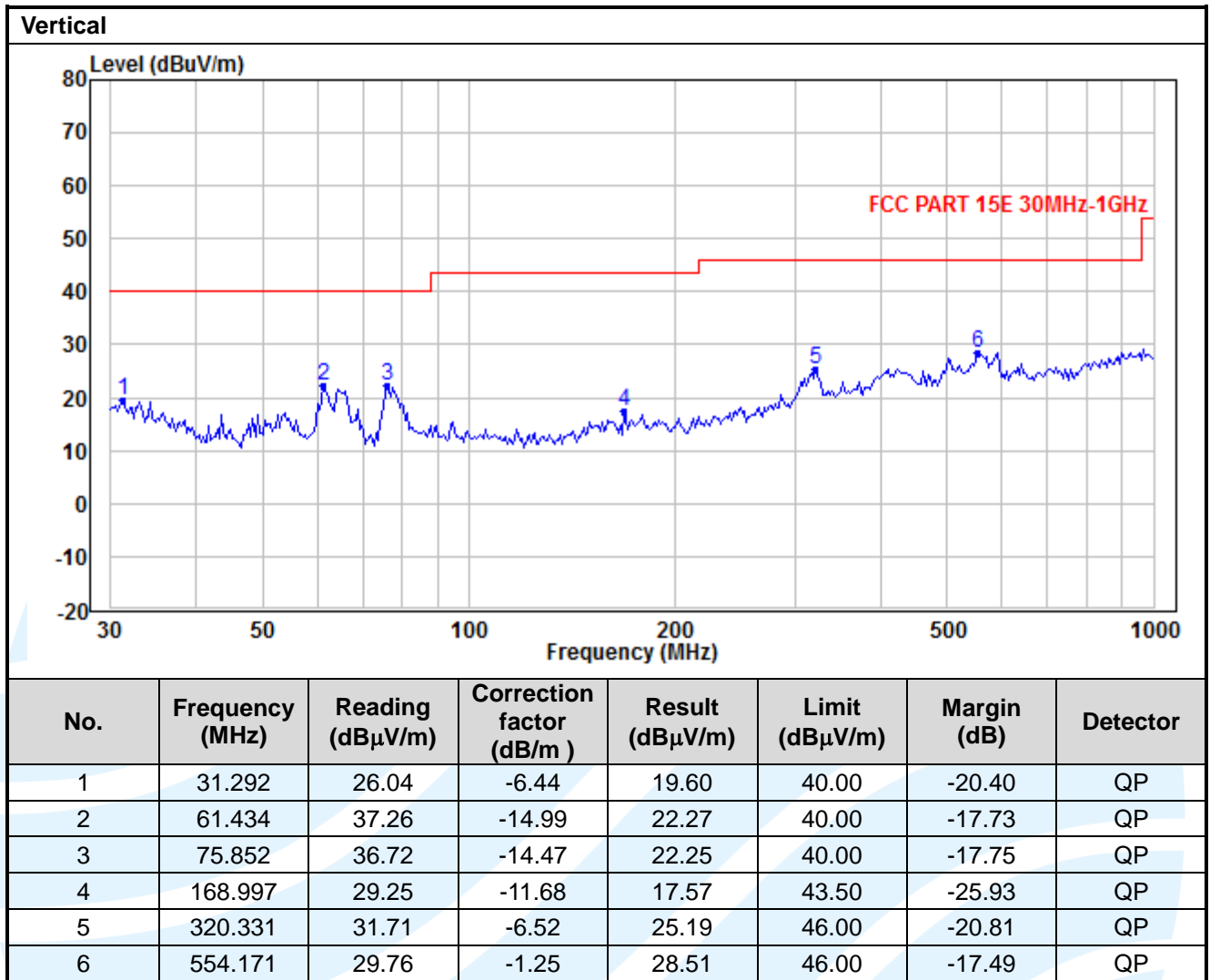
**Radiated Emission Test Data (30 MHz ~ 1 GHz):**  
**Worst-Case Configuration**

**Horizontal**



No.	Frequency (MHz)	Reading (dB $\mu$ V/m)	Correction factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	54.135	36.48	-15.11	21.37	40.00	-18.63	QP
2	75.852	33.61	-14.47	19.14	40.00	-20.86	QP
3	286.265	35.18	-7.11	28.07	46.00	-17.93	QP
4	461.631	32.28	-3.28	29.00	46.00	-17.00	QP
5	651.383	28.04	0.19	28.23	46.00	-17.77	QP
6	919.132	25.49	3.89	29.38	46.00	-16.62	QP





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**Radiated Emission Test Data (Above 1GHz):**

**SISO\_Chain 0\_IEEE 802.11a\_Channel 36**

No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	46.09	5.58	51.67	74.00	-22.33	Peak	Horizontal
2	10360.00	26.94	5.58	32.52	54.00	-21.48	Average	Horizontal
3	15540.00	38.30	10.97	49.27	74.00	-24.73	Peak	Horizontal
4	15540.00	25.68	10.97	36.65	54.00	-17.35	Average	Horizontal
5	10360.00	52.52	5.74	58.26	74.00	-15.74	Peak	Vertical
6	10360.00	35.93	5.74	41.67	54.00	-12.33	Average	Vertical
7	15540.00	42.58	11.07	53.65	74.00	-20.35	Peak	Vertical
8	15540.00	26.47	11.07	37.54	54.00	-16.46	Average	Vertical

**SISO\_Chain 0\_IEEE 802.11a\_Channel 44**

No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	40.88	5.68	46.56	74.00	-27.44	Peak	Horizontal
2	10440.00	26.21	5.68	31.89	54.00	-22.11	Average	Horizontal
3	15660.00	38.36	11.10	49.46	74.00	-24.54	Peak	Horizontal
4	15660.00	25.66	11.10	36.76	54.00	-17.24	Average	Horizontal
5	10440.00	49.46	5.80	55.26	74.00	-18.74	Peak	Vertical
6	10440.00	27.78	5.80	33.58	54.00	-20.42	Average	Vertical
7	15660.00	39.75	11.20	50.95	74.00	-23.05	Peak	Vertical
8	15660.00	26.10	11.20	37.30	54.00	-16.70	Average	Vertical

**SISO\_Chain 0\_IEEE 802.11a\_Channel 48**

No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10480.00	40.67	5.72	46.39	74.00	-27.61	Peak	Horizontal
2	10480.00	29.63	5.72	35.35	54.00	-18.65	Average	Horizontal
3	15720.00	38.58	11.18	49.76	74.00	-24.24	Peak	Horizontal
4	15720.00	25.69	11.18	36.87	54.00	-17.13	Average	Horizontal
5	10480.00	49.45	5.83	55.28	74.00	-18.72	Peak	Vertical
6	10480.00	32.58	5.83	38.41	54.00	-15.59	Average	Vertical
7	15720.00	43.10	11.28	54.38	74.00	-19.62	Peak	Vertical
8	15720.00	28.28	11.28	39.56	54.00	-14.44	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 52								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	39.59	5.72	45.31	74.00	-28.69	Peak	Horizontal
2	10520.00	27.57	5.72	33.29	54.00	-20.71	Average	Horizontal
3	15780.00	38.19	11.26	49.45	74.00	-24.55	Peak	Horizontal
4	15780.00	25.31	11.26	36.57	54.00	-17.43	Average	Horizontal
5	10520.00	48.75	5.83	54.58	74.00	-19.42	Peak	Vertical
6	10520.00	31.14	5.83	36.97	54.00	-17.03	Average	Vertical
7	15780.00	40.29	11.36	51.65	74.00	-22.35	Peak	Vertical
8	15780.00	26.54	11.36	37.90	54.00	-16.10	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 60								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	39.46	5.66	45.12	74.00	-28.88	Peak	Horizontal
2	10600.00	26.80	5.66	32.46	54.00	-21.54	Average	Horizontal
3	15900.00	37.56	11.41	48.97	74.00	-25.03	Peak	Horizontal
4	15900.00	25.54	11.41	36.95	54.00	-17.05	Average	Horizontal
5	10600.00	47.32	5.78	53.10	74.00	-20.90	Peak	Vertical
6	10600.00	32.13	5.78	37.91	54.00	-16.09	Average	Vertical
7	15900.00	41.96	11.51	53.47	74.00	-20.53	Peak	Vertical
8	15900.00	26.35	11.51	37.86	54.00	-16.14	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 64								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	39.68	5.63	45.31	74.00	-28.69	Peak	Horizontal
2	10640.00	26.93	5.63	32.56	54.00	-21.44	Average	Horizontal
3	15960.00	38.54	11.47	50.01	74.00	-23.99	Peak	Horizontal
4	15960.00	25.63	11.47	37.10	54.00	-16.90	Average	Horizontal
5	10640.00	48.76	5.76	54.52	74.00	-19.48	Peak	Vertical
6	10640.00	31.48	5.76	37.24	54.00	-16.76	Average	Vertical
7	15960.00	42.68	11.57	54.25	74.00	-19.75	Peak	Vertical
8	15960.00	26.76	11.57	38.33	54.00	-15.67	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 100								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	40.89	5.32	46.21	74.00	-27.79	Peak	Horizontal
2	11000.00	27.51	5.32	32.83	54.00	-21.17	Average	Horizontal
3	16500.00	38.19	12.55	50.74	74.00	-23.26	Peak	Horizontal
4	16500.00	25.73	12.55	38.28	54.00	-15.72	Average	Horizontal
5	11000.00	46.26	5.52	51.78	74.00	-22.22	Peak	Vertical
6	11000.00	30.33	5.52	35.85	54.00	-18.15	Average	Vertical
7	16500.00	38.29	12.85	51.14	74.00	-22.86	Peak	Vertical
8	16500.00	26.09	12.85	38.94	54.00	-15.06	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 116								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	42.50	5.57	48.07	74.00	-25.93	Peak	Horizontal
2	11160.00	25.89	5.57	31.46	54.00	-22.54	Average	Horizontal
3	16740.00	38.40	12.37	50.77	74.00	-23.23	Peak	Horizontal
4	16740.00	26.20	12.37	38.57	54.00	-15.43	Average	Horizontal
5	11160.00	44.32	5.74	50.06	74.00	-23.94	Peak	Vertical
6	11160.00	28.31	5.74	34.05	54.00	-19.95	Average	Vertical
7	16740.00	39.86	12.63	52.49	74.00	-21.51	Peak	Vertical
8	16740.00	26.89	12.63	39.52	54.00	-14.48	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 140								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	40.59	5.93	46.52	74.00	-27.48	Peak	Horizontal
2	11400.00	27.65	5.93	33.58	54.00	-20.42	Average	Horizontal
3	17100.00	36.28	12.50	48.78	74.00	-25.22	Peak	Horizontal
4	17100.00	24.39	12.50	36.89	54.00	-17.11	Average	Horizontal
5	11400.00	39.90	6.05	45.95	74.00	-28.05	Peak	Vertical
6	11400.00	28.12	6.05	34.17	54.00	-19.83	Average	Vertical
7	17100.00	37.69	12.66	50.35	74.00	-23.65	Peak	Vertical
8	17100.00	24.98	12.66	37.64	54.00	-16.36	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 149								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11490.00	41.94	6.07	48.01	74.00	-25.99	Peak	Horizontal
2	11490.00	27.80	6.07	33.87	54.00	-20.13	Average	Horizontal
3	17235.00	37.38	12.94	50.32	74.00	-23.68	Peak	Horizontal
4	17235.00	25.26	12.94	38.20	54.00	-15.80	Average	Horizontal
5	11490.00	41.84	6.17	48.01	74.00	-25.99	Peak	Vertical
6	11490.00	28.39	6.17	34.56	54.00	-19.44	Average	Vertical
7	17235.00	38.11	13.04	51.15	74.00	-22.85	Peak	Vertical
8	17235.00	25.79	13.04	38.83	54.00	-15.17	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 157								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	41.62	6.29	47.91	74.00	-26.09	Peak	Horizontal
2	11570.00	26.91	6.29	33.20	54.00	-20.80	Average	Horizontal
3	17355.00	37.60	13.32	50.92	74.00	-23.08	Peak	Horizontal
4	17355.00	25.68	13.32	39.00	54.00	-15.00	Average	Horizontal
5	11570.00	41.81	6.42	48.23	74.00	-25.77	Peak	Vertical
6	11570.00	28.25	6.42	34.67	54.00	-19.33	Average	Vertical
7	17355.00	38.24	13.38	51.62	74.00	-22.38	Peak	Vertical
8	17355.00	26.18	13.38	39.56	54.00	-14.44	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 165								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	41.45	6.52	47.97	74.00	-26.03	Peak	Horizontal
2	11650.00	27.32	6.52	33.84	54.00	-20.16	Average	Horizontal
3	17475.00	37.60	13.71	51.31	74.00	-22.69	Peak	Horizontal
4	17475.00	24.90	13.71	38.61	54.00	-15.39	Average	Horizontal
5	11650.00	43.31	6.68	49.99	74.00	-24.01	Peak	Vertical
6	11650.00	28.55	6.68	35.23	54.00	-18.77	Average	Vertical
7	17475.00	38.03	13.73	51.76	74.00	-22.24	Peak	Vertical
8	17475.00	25.29	13.73	39.02	54.00	-14.98	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 36								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	50.93	5.58	56.51	74.00	-17.49	Peak	Horizontal
2	10360.00	33.56	5.58	39.14	54.00	-14.86	Average	Horizontal
3	15540.00	39.32	10.97	50.29	74.00	-23.71	Peak	Horizontal
4	15540.00	25.83	10.97	36.80	54.00	-17.20	Average	Horizontal
5	10360.00	50.51	5.74	56.25	74.00	-17.75	Peak	Vertical
6	10360.00	35.58	5.74	41.32	54.00	-12.68	Average	Vertical
7	15540.00	39.32	11.07	50.39	74.00	-23.61	Peak	Vertical
8	15540.00	26.40	11.07	37.47	54.00	-16.53	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 44								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	43.27	5.68	48.95	74.00	-25.05	Peak	Horizontal
2	10440.00	28.24	5.68	33.92	54.00	-20.08	Average	Horizontal
3	15660.00	38.13	11.10	49.23	74.00	-24.77	Peak	Horizontal
4	15660.00	25.66	11.10	36.76	54.00	-17.24	Average	Horizontal
5	10440.00	51.52	5.80	57.32	74.00	-16.68	Peak	Vertical
6	10440.00	36.28	5.80	42.08	54.00	-11.92	Average	Vertical
7	15660.00	38.57	11.20	49.77	74.00	-24.23	Peak	Vertical
8	15660.00	26.32	11.20	37.52	54.00	-16.48	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 48								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10480.00	40.35	5.72	46.07	74.00	-27.93	Peak	Horizontal
2	10480.00	27.01	5.72	32.73	54.00	-21.27	Average	Horizontal
3	15720.00	37.58	11.18	48.76	74.00	-25.24	Peak	Horizontal
4	15720.00	25.47	11.18	36.65	54.00	-17.35	Average	Horizontal
5	10480.00	50.10	5.83	55.93	74.00	-18.07	Peak	Vertical
6	10480.00	35.38	5.83	41.21	54.00	-12.79	Average	Vertical
7	15720.00	38.28	11.28	49.56	74.00	-24.44	Peak	Vertical
8	15720.00	26.21	11.28	37.49	54.00	-16.51	Average	Vertical



SISO_Chain 1_ IEEE 802.11a_Channel 52								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	41.86	5.72	47.58	74.00	-26.42	Peak	Horizontal
2	10520.00	25.83	5.72	31.55	54.00	-22.45	Average	Horizontal
3	15780.00	39.19	11.26	50.45	74.00	-23.55	Peak	Horizontal
4	15780.00	25.61	11.26	36.87	54.00	-17.13	Average	Horizontal
5	10520.00	52.84	5.83	58.67	74.00	-15.33	Peak	Vertical
6	10520.00	37.12	5.83	42.95	54.00	-11.05	Average	Vertical
7	15780.00	38.65	11.36	50.01	74.00	-23.99	Peak	Vertical
8	15780.00	26.27	11.36	37.63	54.00	-16.37	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 60								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	36.75	5.66	42.41	74.00	-31.59	Peak	Horizontal
2	10600.00	25.26	5.66	30.92	54.00	-23.08	Average	Horizontal
3	15900.00	38.91	11.41	50.32	74.00	-23.68	Peak	Horizontal
4	15900.00	25.62	11.41	37.03	54.00	-16.97	Average	Horizontal
5	10600.00	52.47	5.78	58.25	74.00	-15.75	Peak	Vertical
6	10600.00	37.25	5.78	43.03	54.00	-10.97	Average	Vertical
7	15900.00	38.93	11.51	50.44	74.00	-23.56	Peak	Vertical
8	15900.00	26.35	11.51	37.86	54.00	-16.14	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 64								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	41.43	5.63	47.06	74.00	-26.94	Peak	Horizontal
2	10640.00	25.87	5.63	31.50	54.00	-22.50	Average	Horizontal
3	15960.00	38.54	11.47	50.01	74.00	-23.99	Peak	Horizontal
4	15960.00	25.71	11.47	37.18	54.00	-16.82	Average	Horizontal
5	10640.00	54.30	5.76	60.06	74.00	-13.94	Peak	Vertical
6	10640.00	35.92	5.76	41.68	54.00	-12.32	Average	Vertical
7	15960.00	39.46	11.57	51.03	74.00	-22.97	Peak	Vertical
8	15960.00	26.43	11.57	38.00	54.00	-16.00	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 100								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	47.46	5.32	52.78	74.00	-21.22	Peak	Horizontal
2	11000.00	30.54	5.32	35.86	54.00	-18.14	Average	Horizontal
3	16500.00	37.73	12.55	50.28	74.00	-23.72	Peak	Horizontal
4	16500.00	25.65	12.55	38.20	54.00	-15.80	Average	Horizontal
5	11000.00	51.15	5.52	56.67	74.00	-17.33	Peak	Vertical
6	11000.00	36.15	5.52	41.67	54.00	-12.33	Average	Vertical
7	16500.00	38.67	12.85	51.52	74.00	-22.48	Peak	Vertical
8	16500.00	26.16	12.85	39.01	54.00	-14.99	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 116								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	48.31	5.57	53.88	74.00	-20.12	Peak	Horizontal
2	11160.00	28.79	5.57	34.36	54.00	-19.64	Average	Horizontal
3	16740.00	38.03	12.37	50.40	74.00	-23.60	Peak	Horizontal
4	16740.00	26.06	12.37	38.43	54.00	-15.57	Average	Horizontal
5	11160.00	52.35	5.74	58.09	74.00	-15.91	Peak	Vertical
6	11160.00	31.35	5.74	37.09	54.00	-16.91	Average	Vertical
7	16740.00	38.54	12.63	51.17	74.00	-22.83	Peak	Vertical
8	16740.00	26.48	12.63	39.11	54.00	-14.89	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 140								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	47.52	5.93	53.45	74.00	-20.55	Peak	Horizontal
2	11400.00	30.18	5.93	36.11	54.00	-17.89	Average	Horizontal
3	17100.00	37.10	12.50	49.60	74.00	-24.40	Peak	Horizontal
4	17100.00	24.48	12.50	36.98	54.00	-17.02	Average	Horizontal
5	11400.00	46.76	6.05	52.81	74.00	-21.19	Peak	Vertical
6	11400.00	30.95	6.05	37.00	54.00	-17.00	Average	Vertical
7	17100.00	37.69	12.66	50.35	74.00	-23.65	Peak	Vertical
8	17100.00	24.98	12.66	37.64	54.00	-16.36	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 149								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11490.00	42.64	6.07	48.71	74.00	-25.29	Peak	Horizontal
2	11490.00	27.98	6.07	34.05	54.00	-19.95	Average	Horizontal
3	17235.00	37.60	12.94	50.54	74.00	-23.46	Peak	Horizontal
4	17235.00	25.10	12.94	38.04	54.00	-15.96	Average	Horizontal
5	11490.00	47.10	6.17	53.27	74.00	-20.73	Peak	Vertical
6	11490.00	29.49	6.17	35.66	54.00	-18.34	Average	Vertical
7	17235.00	37.63	13.04	50.67	74.00	-23.33	Peak	Vertical
8	17235.00	25.64	13.04	38.68	54.00	-15.32	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 157								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	41.75	6.29	48.04	74.00	-25.96	Peak	Horizontal
2	11570.00	27.84	6.29	34.13	54.00	-19.87	Average	Horizontal
3	17355.00	37.60	13.32	50.92	74.00	-23.08	Peak	Horizontal
4	17355.00	25.68	13.32	39.00	54.00	-15.00	Average	Horizontal
5	11570.00	43.80	6.42	50.22	74.00	-23.78	Peak	Vertical
6	11570.00	29.51	6.42	35.93	54.00	-18.07	Average	Vertical
7	17355.00	38.31	13.38	51.69	74.00	-22.31	Peak	Vertical
8	17355.00	25.96	13.38	39.34	54.00	-14.66	Average	Vertical

SISO_Chain 1_IEEE 802.11a_Channel 165								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	41.31	6.52	47.83	74.00	-26.17	Peak	Horizontal
2	11650.00	27.57	6.52	34.09	54.00	-19.91	Average	Horizontal
3	17475.00	37.48	13.71	51.19	74.00	-22.81	Peak	Horizontal
4	17475.00	25.82	13.71	39.53	54.00	-14.47	Average	Horizontal
5	11650.00	45.20	6.68	51.88	74.00	-22.12	Peak	Vertical
6	11650.00	29.52	6.68	36.20	54.00	-17.80	Average	Vertical
7	17475.00	38.16	13.73	51.89	74.00	-22.11	Peak	Vertical
8	17475.00	25.13	13.73	38.86	54.00	-15.14	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 36								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	46.80	5.58	52.38	74.00	-21.62	Peak	Horizontal
2	10360.00	28.76	5.58	34.34	54.00	-19.66	Average	Horizontal
3	15540.00	42.22	10.97	53.19	74.00	-20.81	Peak	Horizontal
4	15540.00	25.68	10.97	36.65	54.00	-17.35	Average	Horizontal
5	10360.00	57.02	5.74	62.76	74.00	-11.24	Peak	Vertical
6	10360.00	40.34	5.74	46.08	54.00	-7.92	Average	Vertical
7	15540.00	47.53	11.07	58.60	74.00	-15.40	Peak	Vertical
8	15540.00	28.47	11.07	39.54	54.00	-14.46	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 44								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	47.90	5.68	53.58	74.00	-20.42	Peak	Horizontal
2	10440.00	25.57	5.68	31.25	54.00	-22.75	Average	Horizontal
3	15660.00	41.42	11.10	52.52	74.00	-21.48	Peak	Horizontal
4	15660.00	25.59	11.10	36.69	54.00	-17.31	Average	Horizontal
5	10440.00	51.83	5.80	57.63	74.00	-16.37	Peak	Vertical
6	10440.00	41.26	5.80	47.06	54.00	-6.94	Average	Vertical
7	15660.00	44.49	11.20	55.69	74.00	-18.31	Peak	Vertical
8	15660.00	28.32	11.20	39.52	54.00	-14.48	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 48								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10480.00	41.76	5.72	47.48	74.00	-26.52	Peak	Horizontal
2	10480.00	25.52	5.72	31.24	54.00	-22.76	Average	Horizontal
3	15720.00	36.92	11.18	48.10	74.00	-25.90	Peak	Horizontal
4	15720.00	25.15	11.18	36.33	54.00	-17.67	Average	Horizontal
5	10480.00	52.16	5.83	57.99	74.00	-16.01	Peak	Vertical
6	10480.00	33.78	5.83	39.61	54.00	-14.39	Average	Vertical
7	15720.00	40.75	11.28	52.03	74.00	-21.97	Peak	Vertical
8	15720.00	25.84	11.28	37.12	54.00	-16.88	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 52								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	42.54	5.72	48.26	74.00	-25.74	Peak	Horizontal
2	10520.00	25.52	5.72	31.24	54.00	-22.76	Average	Horizontal
3	15780.00	37.99	11.26	49.25	74.00	-24.75	Peak	Horizontal
4	15780.00	25.39	11.26	36.65	54.00	-17.35	Average	Horizontal
5	10520.00	48.23	5.83	54.06	74.00	-19.94	Peak	Vertical
6	10520.00	31.14	5.83	36.97	54.00	-17.03	Average	Vertical
7	15780.00	39.02	11.36	50.38	74.00	-23.62	Peak	Vertical
8	15780.00	26.06	11.36	37.42	54.00	-16.58	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 60								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	48.85	5.66	54.51	74.00	-19.49	Peak	Horizontal
2	10600.00	26.00	5.66	31.66	54.00	-22.34	Average	Horizontal
3	15900.00	39.24	11.41	50.65	74.00	-23.35	Peak	Horizontal
4	15900.00	25.46	11.41	36.87	54.00	-17.13	Average	Horizontal
5	10600.00	53.57	5.78	59.35	74.00	-14.65	Peak	Vertical
6	10600.00	31.91	5.78	37.69	54.00	-16.31	Average	Vertical
7	15900.00	42.70	11.51	54.21	74.00	-19.79	Peak	Vertical
8	15900.00	26.06	11.51	37.57	54.00	-16.43	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 64								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	38.05	5.63	43.68	74.00	-30.32	Peak	Horizontal
2	10640.00	24.03	5.63	29.66	54.00	-24.34	Average	Horizontal
3	15960.00	38.45	11.47	49.92	74.00	-24.08	Peak	Horizontal
4	15960.00	25.56	11.47	37.03	54.00	-16.97	Average	Horizontal
5	10640.00	49.85	5.76	55.61	74.00	-18.39	Peak	Vertical
6	10640.00	31.79	5.76	37.55	54.00	-16.45	Average	Vertical
7	15960.00	42.75	11.57	54.32	74.00	-19.68	Peak	Vertical
8	15960.00	26.22	11.57	37.79	54.00	-16.21	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 100								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	36.80	5.32	42.12	74.00	-31.88	Peak	Horizontal
2	11000.00	25.76	5.32	31.08	54.00	-22.92	Average	Horizontal
3	16500.00	37.13	12.55	49.68	74.00	-24.32	Peak	Horizontal
4	16500.00	25.50	12.55	38.05	54.00	-15.95	Average	Horizontal
5	11000.00	51.62	5.52	57.14	74.00	-16.86	Peak	Vertical
6	11000.00	30.24	5.52	35.76	54.00	-18.24	Average	Vertical
7	16500.00	41.42	12.85	54.27	74.00	-19.73	Peak	Vertical
8	16500.00	25.95	12.85	38.80	54.00	-15.20	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 116								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	40.20	5.57	45.77	74.00	-28.23	Peak	Horizontal
2	11160.00	26.03	5.57	31.60	54.00	-22.40	Average	Horizontal
3	16740.00	38.76	12.37	51.13	74.00	-22.87	Peak	Horizontal
4	16740.00	25.91	12.37	38.28	54.00	-15.72	Average	Horizontal
5	11160.00	46.14	5.74	51.88	74.00	-22.12	Peak	Vertical
6	11160.00	29.40	5.74	35.14	54.00	-18.86	Average	Vertical
7	16740.00	40.39	12.63	53.02	74.00	-20.98	Peak	Vertical
8	16740.00	26.41	12.63	39.04	54.00	-14.96	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 140								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	42.89	5.93	48.82	74.00	-25.18	Peak	Horizontal
2	11400.00	26.56	5.93	32.49	54.00	-21.51	Average	Horizontal
3	17100.00	38.65	12.50	51.15	74.00	-22.85	Peak	Horizontal
4	17100.00	24.13	12.50	36.63	54.00	-17.37	Average	Horizontal
5	11400.00	50.34	6.05	56.39	74.00	-17.61	Peak	Vertical
6	11400.00	28.93	6.05	34.98	54.00	-19.02	Average	Vertical
7	17100.00	37.44	12.66	50.10	74.00	-23.90	Peak	Vertical
8	17100.00	24.82	12.66	37.48	54.00	-16.52	Average	Vertical



MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 149								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11490.00	41.46	6.07	47.53	74.00	-26.47	Peak	Horizontal
2	11490.00	26.50	6.07	32.57	54.00	-21.43	Average	Horizontal
3	17235.00	37.52	12.94	50.46	74.00	-23.54	Peak	Horizontal
4	17235.00	25.02	12.94	37.96	54.00	-16.04	Average	Horizontal
5	11490.00	49.22	6.17	55.39	74.00	-18.61	Peak	Vertical
6	11490.00	28.50	6.17	34.67	54.00	-19.33	Average	Vertical
7	17235.00	38.35	13.04	51.39	74.00	-22.61	Peak	Vertical
8	17235.00	25.41	13.04	38.45	54.00	-15.55	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 157								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	40.56	6.29	46.85	74.00	-27.15	Peak	Horizontal
2	11570.00	24.49	6.29	30.78	54.00	-23.22	Average	Horizontal
3	17355.00	37.79	13.32	51.11	74.00	-22.89	Peak	Horizontal
4	17355.00	25.52	13.32	38.84	54.00	-15.16	Average	Horizontal
5	11570.00	46.55	6.42	52.97	74.00	-21.03	Peak	Vertical
6	11570.00	27.67	6.42	34.09	54.00	-19.91	Average	Vertical
7	17355.00	38.29	13.38	51.67	74.00	-22.33	Peak	Vertical
8	17355.00	26.11	13.38	39.49	54.00	-14.51	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 165								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	40.14	6.52	46.66	74.00	-27.34	Peak	Horizontal
2	11650.00	25.45	6.52	31.97	54.00	-22.03	Average	Horizontal
3	17475.00	39.10	13.71	52.81	74.00	-21.19	Peak	Horizontal
4	17475.00	24.73	13.71	38.44	54.00	-15.56	Average	Horizontal
5	11650.00	47.17	6.68	53.85	74.00	-20.15	Peak	Vertical
6	11650.00	28.60	6.68	35.28	54.00	-18.72	Average	Vertical
7	17475.00	38.93	13.73	52.66	74.00	-21.34	Peak	Vertical
8	17475.00	24.97	13.73	38.70	54.00	-15.30	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 38								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10380.00	45.54	5.60	51.14	74.00	-22.86	Peak	Horizontal
2	10380.00	28.53	5.60	34.13	54.00	-19.87	Average	Horizontal
3	15570.00	38.68	10.99	49.67	74.00	-24.33	Peak	Horizontal
4	15570.00	25.51	10.99	36.50	54.00	-17.50	Average	Horizontal
5	10380.00	49.52	5.75	55.27	74.00	-18.73	Peak	Vertical
6	10380.00	34.46	5.75	40.21	54.00	-13.79	Average	Vertical
7	15570.00	38.55	11.09	49.64	74.00	-24.36	Peak	Vertical
8	15570.00	26.45	11.09	37.54	54.00	-16.46	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 46								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10460.00	41.51	5.70	47.21	74.00	-26.79	Peak	Horizontal
2	10460.00	29.37	5.70	35.07	54.00	-18.93	Average	Horizontal
3	15690.00	38.11	11.15	49.26	74.00	-24.74	Peak	Horizontal
4	15690.00	25.76	11.15	36.91	54.00	-17.09	Average	Horizontal
5	10460.00	48.93	5.82	54.75	74.00	-19.25	Peak	Vertical
6	10460.00	34.02	5.82	39.84	54.00	-14.16	Average	Vertical
7	15690.00	39.41	11.25	50.66	74.00	-23.34	Peak	Vertical
8	15690.00	26.47	11.25	37.72	54.00	-16.28	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 54								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10540.00	48.80	5.71	54.51	74.00	-19.49	Peak	Horizontal
2	10540.00	34.06	5.71	39.77	54.00	-14.23	Average	Horizontal
3	15810.00	38.43	11.29	49.72	74.00	-24.28	Peak	Horizontal
4	15810.00	25.47	11.29	36.76	54.00	-17.24	Average	Horizontal
5	10540.00	52.23	5.82	58.05	74.00	-15.95	Peak	Vertical
6	10540.00	35.70	5.82	41.52	54.00	-12.48	Average	Vertical
7	15810.00	38.63	11.39	50.02	74.00	-23.98	Peak	Vertical
8	15810.00	25.85	11.39	37.24	54.00	-16.76	Average	Vertical

MIMO_Chain 0+1_IEEE 802.11n-HT40_Channel 62								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10620.00	39.87	5.64	45.51	74.00	-28.49	Peak	Horizontal
2	10620.00	25.02	5.64	30.66	54.00	-23.34	Average	Horizontal
3	15930.00	38.06	11.45	49.51	74.00	-24.49	Peak	Horizontal
4	15930.00	25.27	11.45	36.72	54.00	-17.28	Average	Horizontal
5	10620.00	48.49	5.77	54.26	74.00	-19.74	Peak	Vertical
6	10620.00	29.68	5.77	35.45	54.00	-18.55	Average	Vertical
7	15930.00	39.49	11.55	51.04	74.00	-22.96	Peak	Vertical
8	15930.00	25.95	11.55	37.50	54.00	-16.50	Average	Vertical

MIMO_Chain 0+1_IEEE 802.11n-HT40_Channel 102								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11020.00	39.79	5.35	45.14	74.00	-28.86	Peak	Horizontal
2	11020.00	27.21	5.35	32.56	54.00	-21.44	Average	Horizontal
3	16530.00	37.78	12.54	50.32	74.00	-23.68	Peak	Horizontal
4	16530.00	25.43	12.54	37.97	54.00	-16.03	Average	Horizontal
5	11020.00	46.78	5.54	52.32	74.00	-21.68	Peak	Vertical
6	11020.00	28.61	5.54	34.15	54.00	-19.85	Average	Vertical
7	16530.00	38.59	12.83	51.42	74.00	-22.58	Peak	Vertical
8	16530.00	26.04	12.83	38.87	54.00	-15.13	Average	Vertical

MIMO_Chain 0+1_IEEE 802.11n-HT40_Channel 110								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11100.00	39.17	5.47	44.64	74.00	-29.36	Peak	Horizontal
2	11100.00	25.29	5.47	30.76	54.00	-23.24	Average	Horizontal
3	16650.00	38.05	12.44	50.49	74.00	-23.51	Peak	Horizontal
4	16650.00	25.62	12.44	38.06	54.00	-15.94	Average	Horizontal
5	11100.00	44.01	5.65	49.66	74.00	-24.34	Peak	Vertical
6	11100.00	27.70	5.65	33.35	54.00	-20.65	Average	Vertical
7	16650.00	39.04	12.71	51.75	74.00	-22.25	Peak	Vertical
8	16650.00	26.26	12.71	38.97	54.00	-15.03	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 134								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11340.00	41.40	5.84	47.24	74.00	-26.76	Peak	Horizontal
2	11340.00	26.69	5.84	32.53	54.00	-21.47	Average	Horizontal
3	17010.00	37.54	12.21	49.75	74.00	-24.25	Peak	Horizontal
4	17010.00	24.41	12.21	36.62	54.00	-17.38	Average	Horizontal
5	11340.00	41.28	5.97	47.25	74.00	-26.75	Peak	Vertical
6	11340.00	28.17	5.97	34.14	54.00	-19.86	Average	Vertical
7	17010.00	37.36	12.41	49.77	74.00	-24.23	Peak	Vertical
8	17010.00	25.17	12.41	37.58	54.00	-16.42	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 151								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11510.00	38.51	6.11	44.62	74.00	-29.38	Peak	Horizontal
2	11510.00	26.90	6.11	33.01	54.00	-20.99	Average	Horizontal
3	17265.00	36.94	13.04	49.98	74.00	-24.02	Peak	Horizontal
4	17265.00	24.58	13.04	37.62	54.00	-16.38	Average	Horizontal
5	11510.00	42.43	6.21	48.64	74.00	-25.36	Peak	Vertical
6	11510.00	28.29	6.21	34.50	54.00	-19.50	Average	Vertical
7	17265.00	37.41	13.14	50.55	74.00	-23.45	Peak	Vertical
8	17265.00	25.39	13.14	38.53	54.00	-15.47	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 159								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11590.00	40.10	6.35	46.45	74.00	-27.55	Peak	Horizontal
2	11590.00	24.71	6.35	31.06	54.00	-22.94	Average	Horizontal
3	17385.00	38.06	13.42	51.48	74.00	-22.52	Peak	Horizontal
4	17385.00	25.35	13.42	38.77	54.00	-15.23	Average	Horizontal
5	11590.00	40.73	6.49	47.22	74.00	-26.78	Peak	Vertical
6	11590.00	27.41	6.49	33.90	54.00	-20.10	Average	Vertical
7	17385.00	38.41	13.46	51.87	74.00	-22.13	Peak	Vertical
8	17385.00	25.81	13.46	39.27	54.00	-14.73	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 42								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10460.00	42.42	5.66	48.08	74.00	-25.92	Peak	Horizontal
2	10460.00	28.15	5.66	33.81	54.00	-20.19	Average	Horizontal
3	15690.00	38.12	11.07	49.19	74.00	-24.81	Peak	Horizontal
4	15690.00	25.84	11.07	36.91	54.00	-17.09	Average	Horizontal
5	10460.00	46.14	5.79	51.93	74.00	-22.07	Peak	Vertical
6	10460.00	30.38	5.79	36.17	54.00	-17.83	Average	Vertical
7	15690.00	39.00	11.17	50.17	74.00	-23.83	Peak	Vertical
8	15690.00	26.13	11.17	37.30	54.00	-16.70	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 58								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10580.00	36.87	5.68	42.55	74.00	-31.45	Peak	Horizontal
2	10580.00	27.18	5.68	32.86	54.00	-21.14	Average	Horizontal
3	15870.00	37.94	11.37	49.31	74.00	-24.69	Peak	Horizontal
4	15870.00	25.39	11.37	36.76	54.00	-17.24	Average	Horizontal
5	10580.00	44.86	5.79	50.65	74.00	-23.35	Peak	Vertical
6	10580.00	31.02	5.79	36.81	54.00	-17.19	Average	Vertical
7	15870.00	38.59	11.47	50.06	74.00	-23.94	Peak	Vertical
8	15870.00	26.06	11.47	37.53	54.00	-16.47	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 106								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11060.00	40.51	5.41	45.92	74.00	-28.08	Peak	Horizontal
2	11060.00	26.42	5.41	31.83	54.00	-22.17	Average	Horizontal
3	16590.00	37.30	12.49	49.79	74.00	-24.21	Peak	Horizontal
4	16590.00	25.01	12.49	37.50	54.00	-16.50	Average	Horizontal
5	11060.00	44.48	5.60	50.08	74.00	-23.92	Peak	Vertical
6	11060.00	31.52	5.60	37.12	54.00	-16.88	Average	Vertical
7	16590.00	38.67	12.78	51.45	74.00	-22.55	Peak	Vertical
8	16590.00	25.71	12.78	38.49	54.00	-15.51	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 122								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11220.00	39.70	5.66	45.36	74.00	-28.64	Peak	Horizontal
2	11220.00	25.66	5.66	31.32	54.00	-22.68	Average	Horizontal
3	16830.00	38.42	12.31	50.73	74.00	-23.27	Peak	Horizontal
4	16830.00	26.26	12.31	38.57	54.00	-15.43	Average	Horizontal
5	11220.00	43.06	5.81	48.87	74.00	-25.13	Peak	Vertical
6	11220.00	29.41	5.81	35.22	54.00	-18.78	Average	Vertical
7	16830.00	39.33	12.54	51.87	74.00	-22.13	Peak	Vertical
8	16830.00	26.68	12.54	39.22	54.00	-14.78	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 155								
No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11550.00	27.19	6.23	33.42	74.00	-40.58	Peak	Horizontal
2	11550.00	27.19	6.23	33.42	54.00	-20.58	Average	Horizontal
3	17325.00	24.81	13.23	38.04	74.00	-35.96	Peak	Horizontal
4	17325.00	24.81	13.23	38.04	54.00	-15.96	Average	Horizontal
5	11550.00	41.05	6.35	47.40	74.00	-26.60	Peak	Vertical
6	11550.00	28.70	6.35	35.05	54.00	-18.95	Average	Vertical
7	17325.00	38.21	13.29	51.50	74.00	-22.50	Peak	Vertical
8	17325.00	25.39	13.29	38.68	54.00	-15.32	Average	Vertical

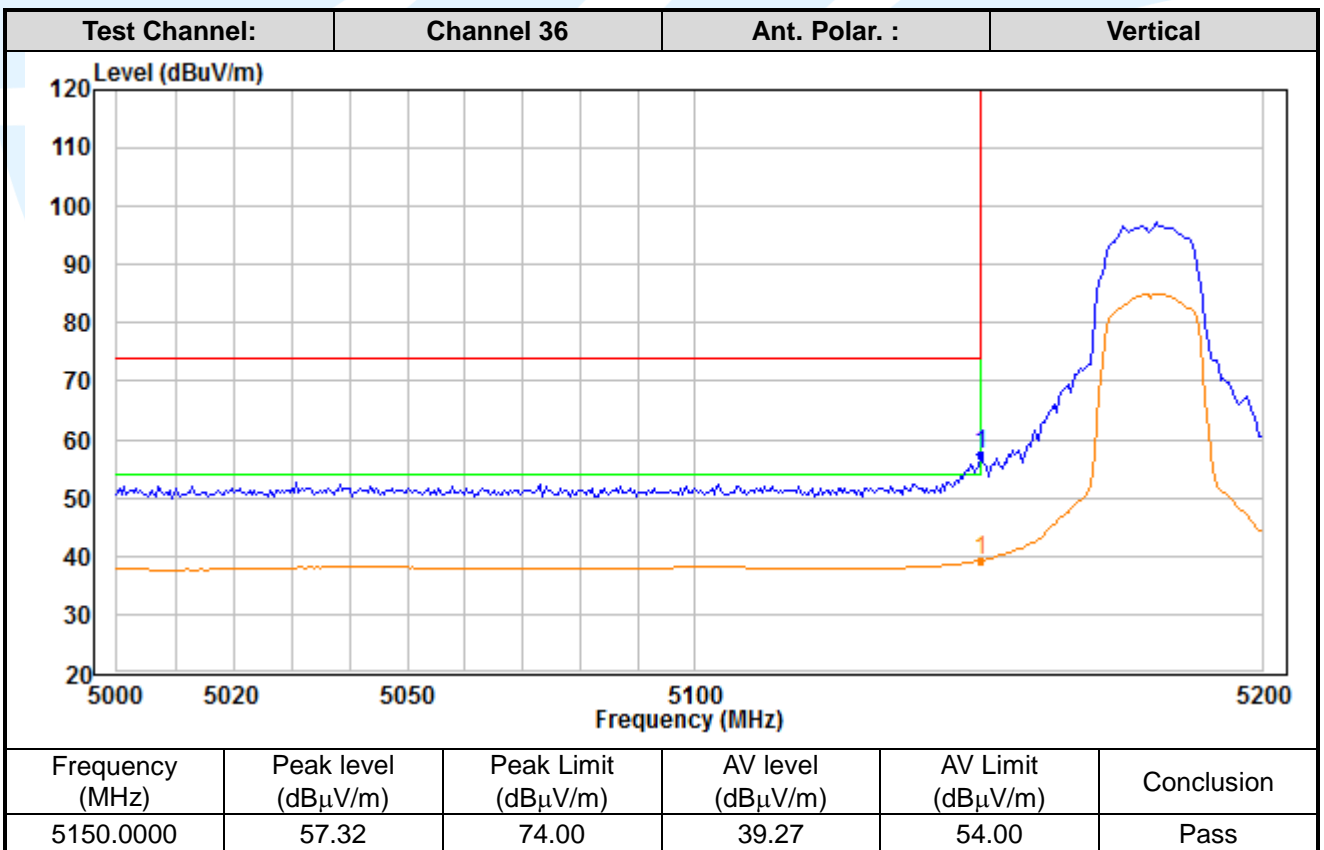
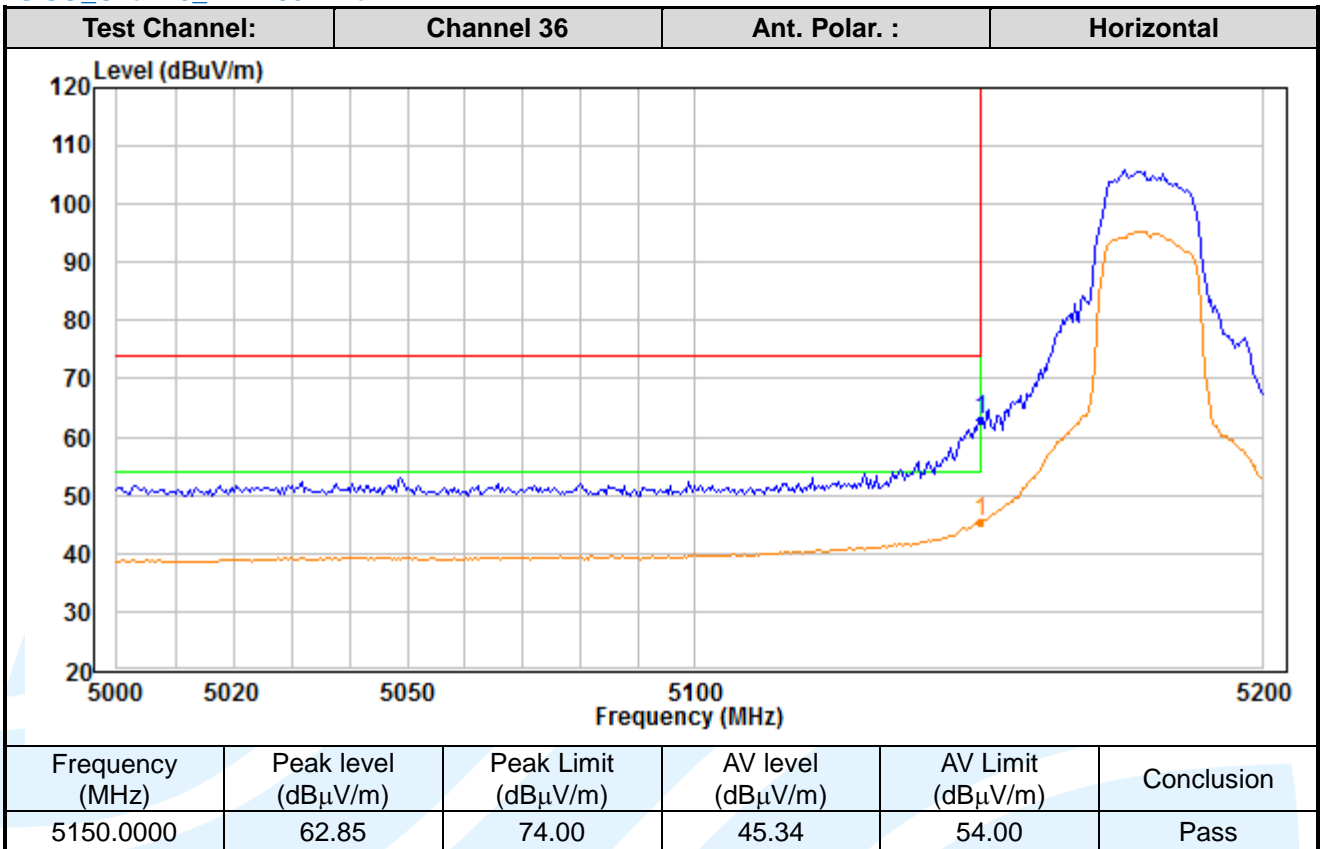
Remark:

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



**Band Edge Measurements (Radiated)**

SISO\_Chain 0\_IEEE 802.11a



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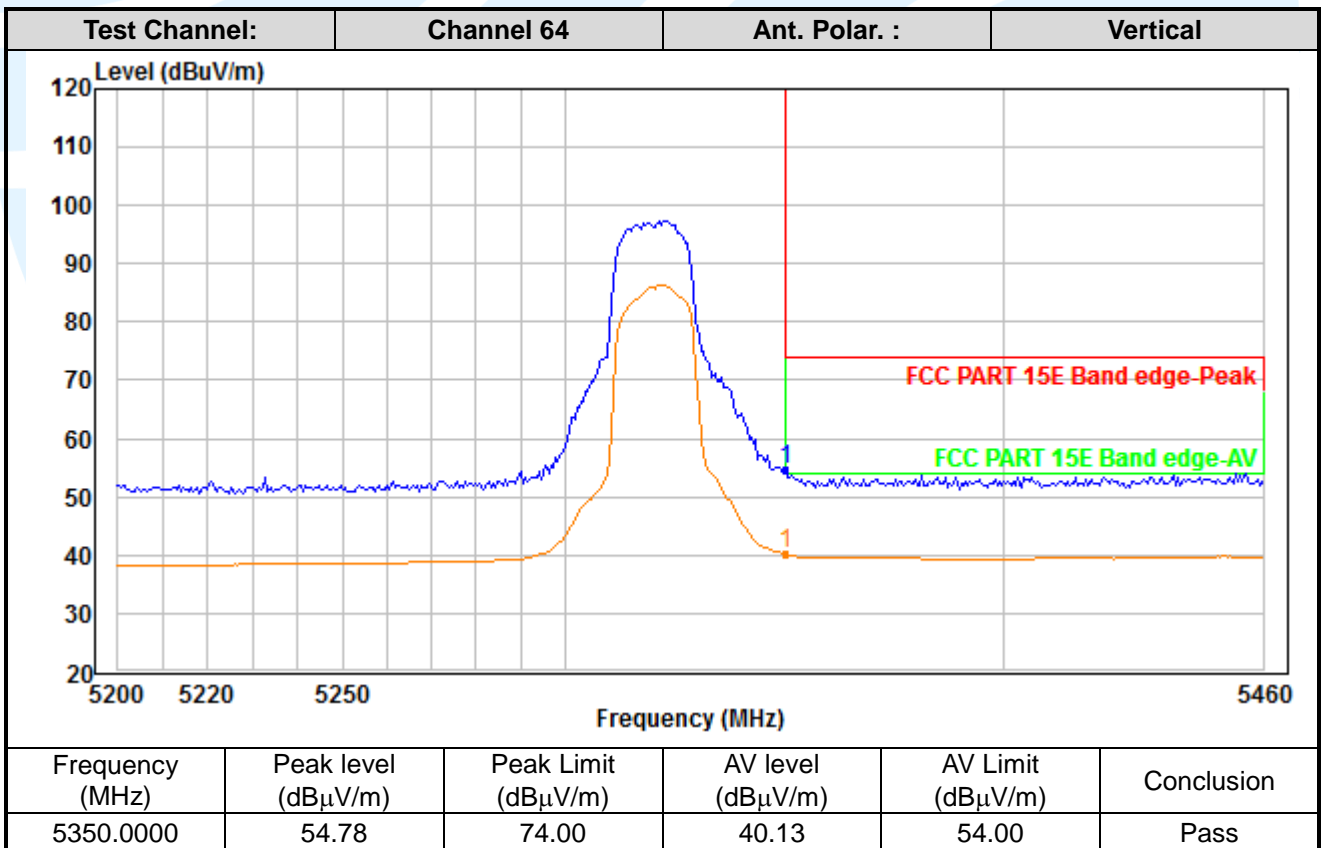
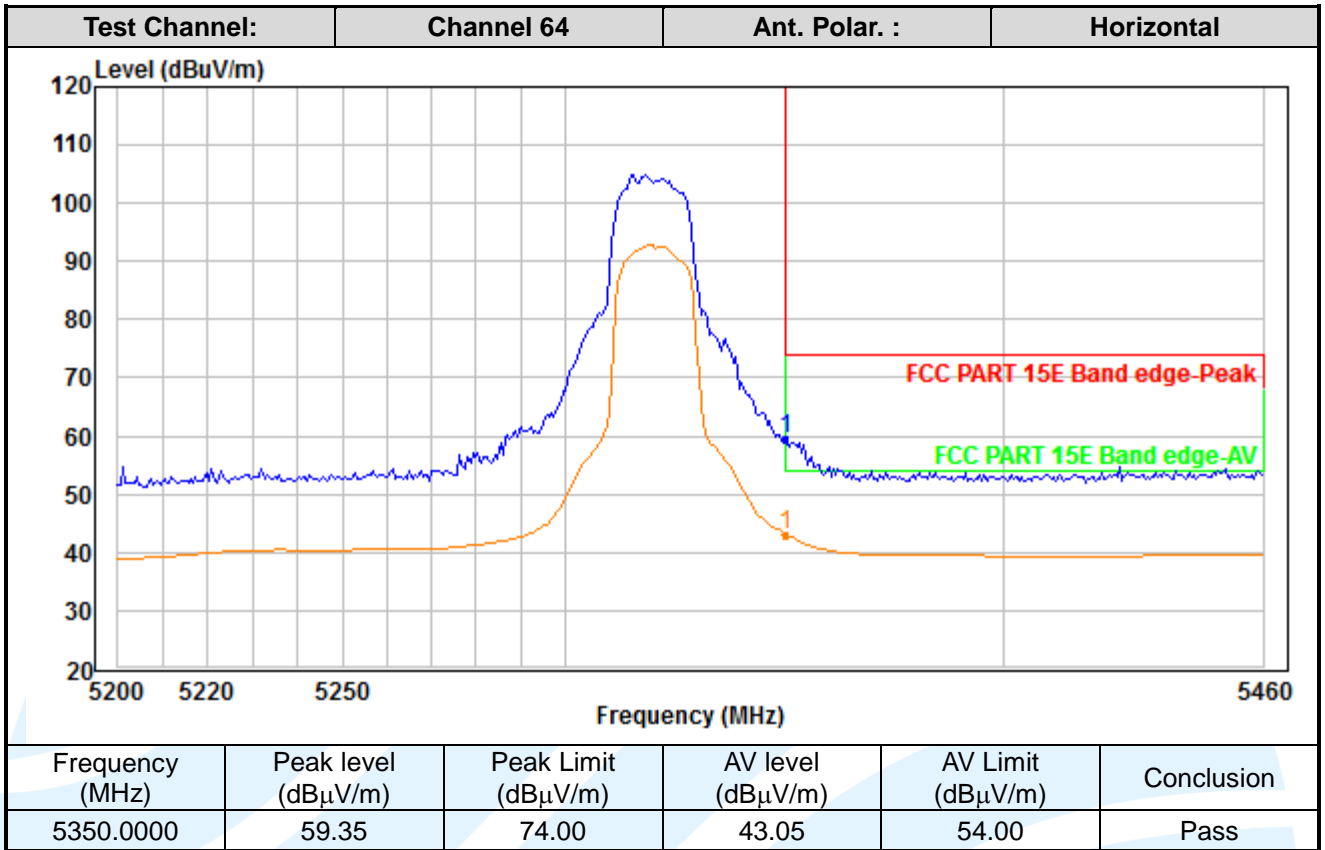
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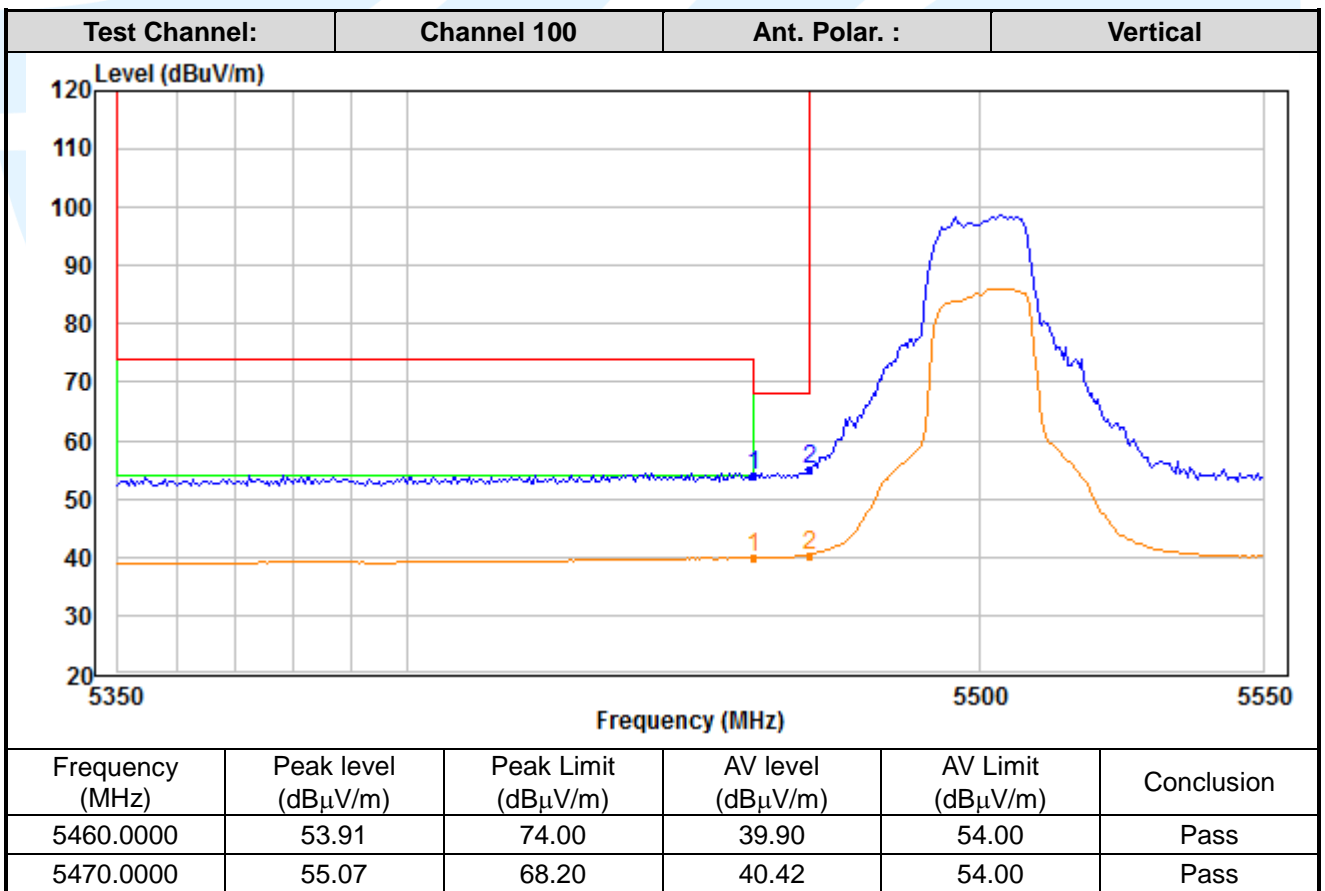
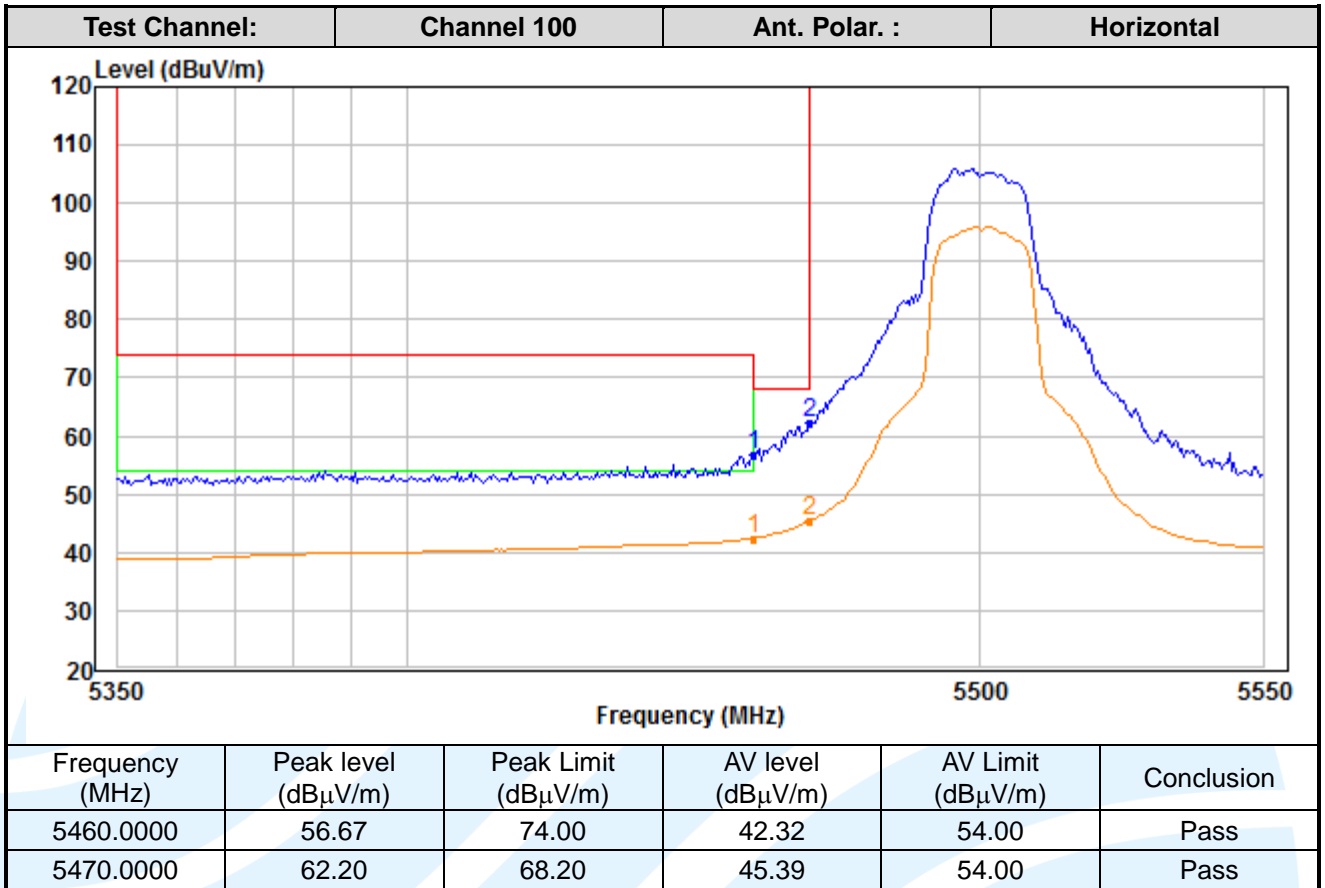
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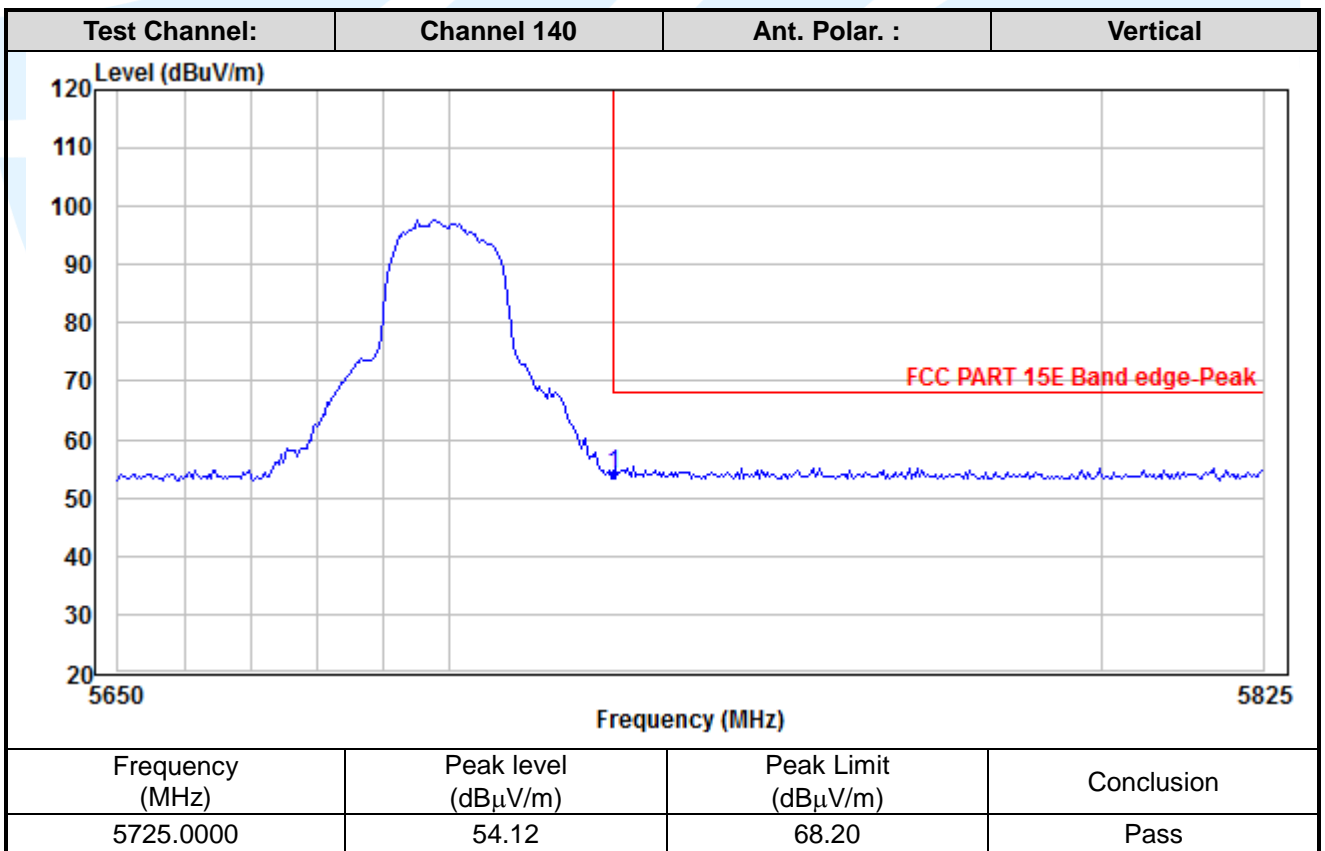
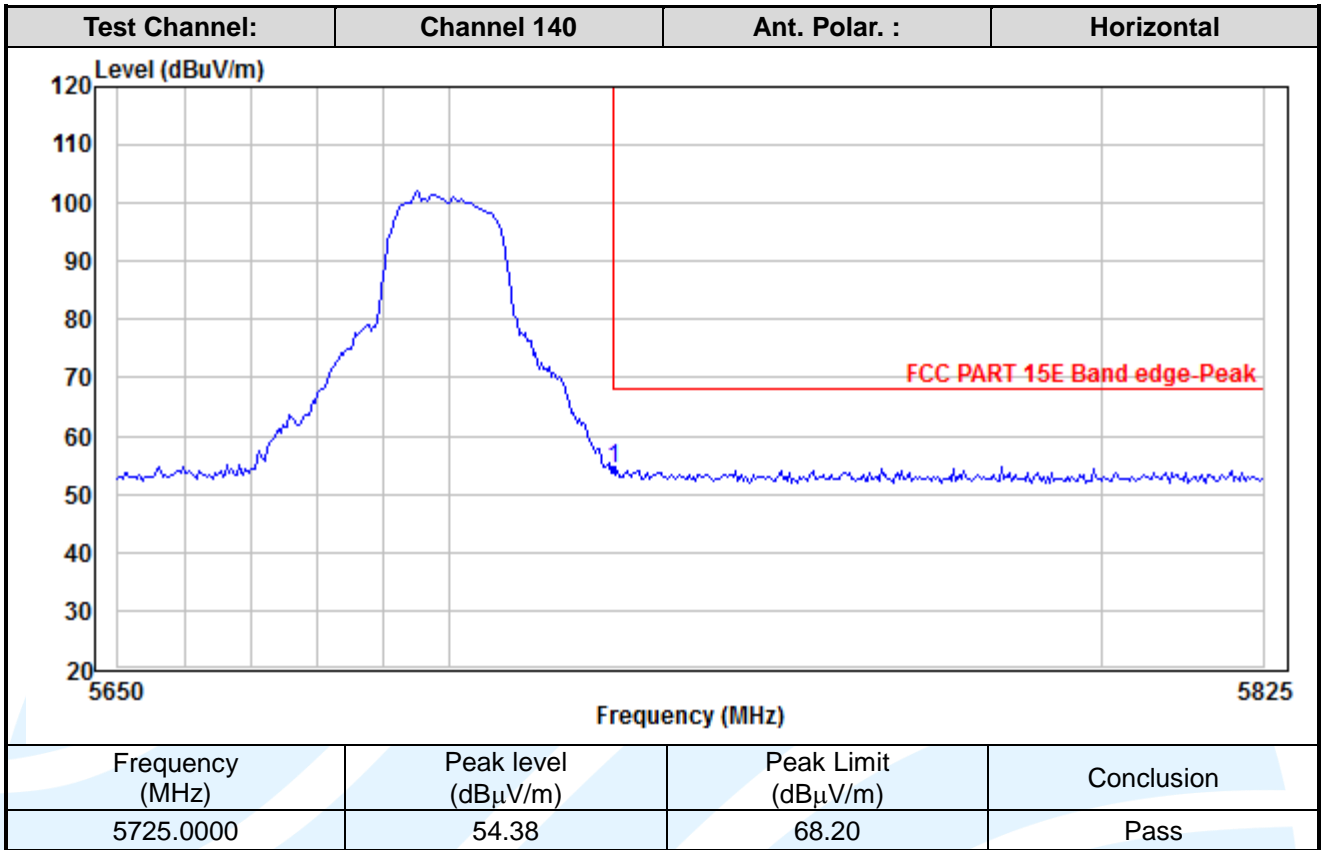
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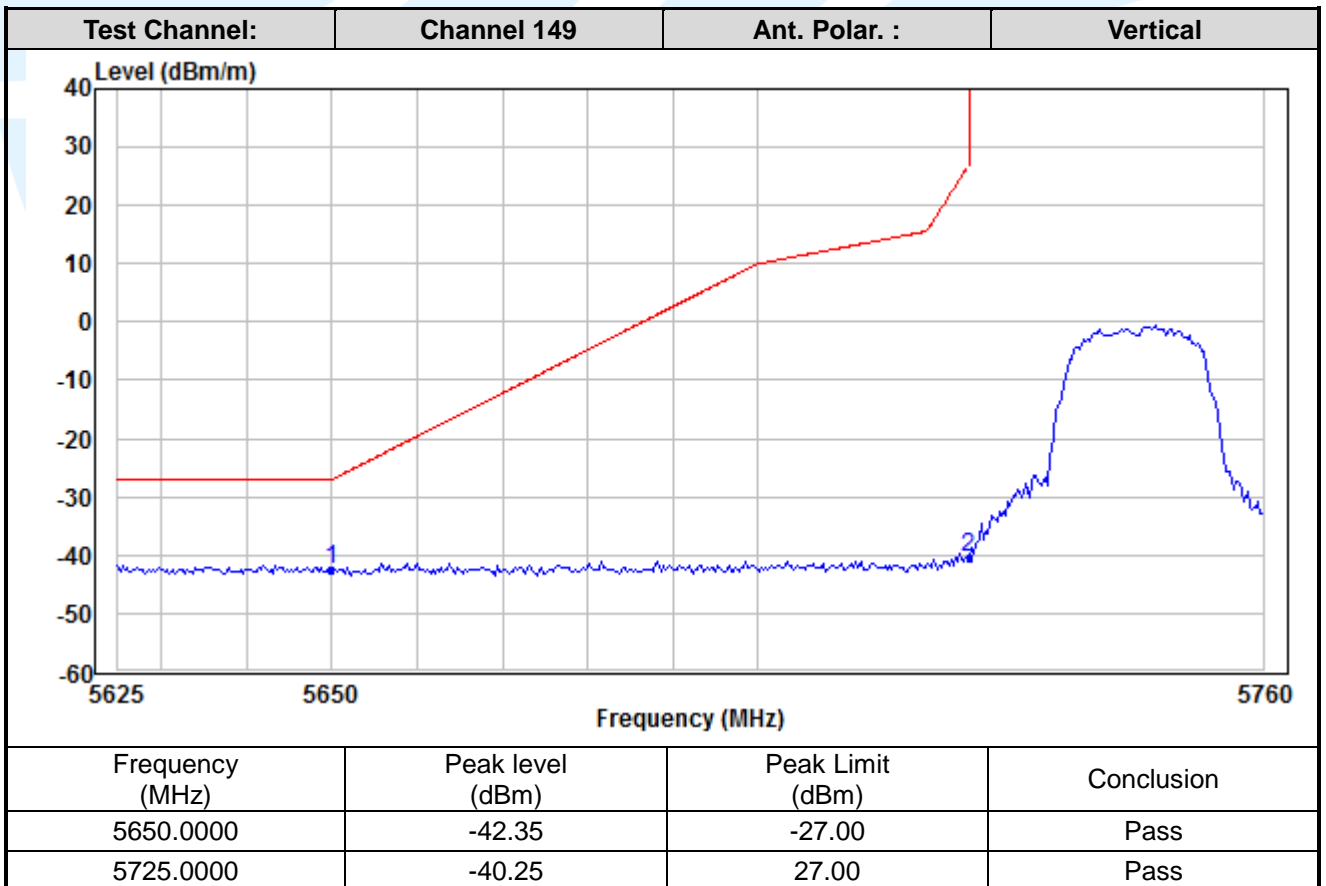
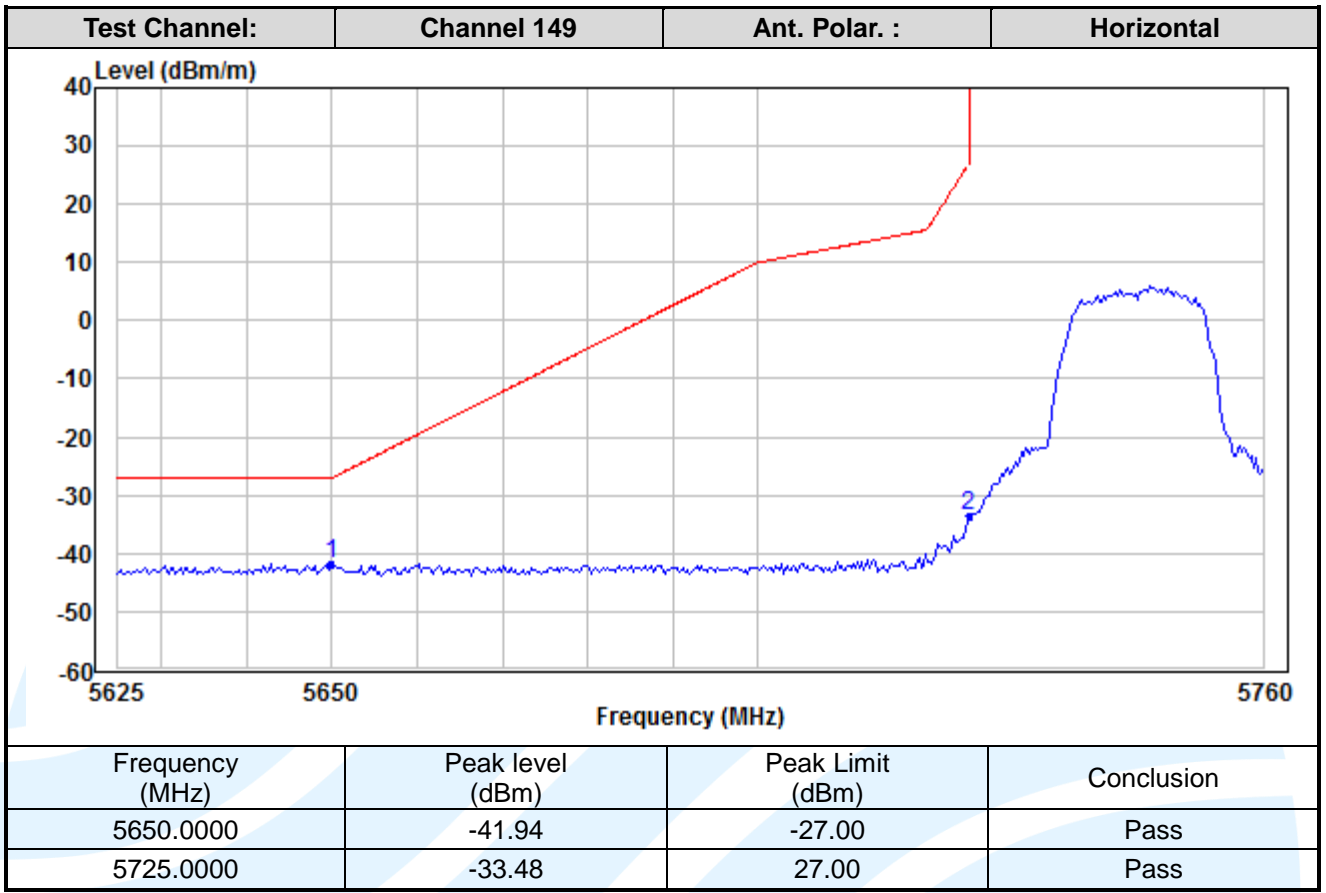
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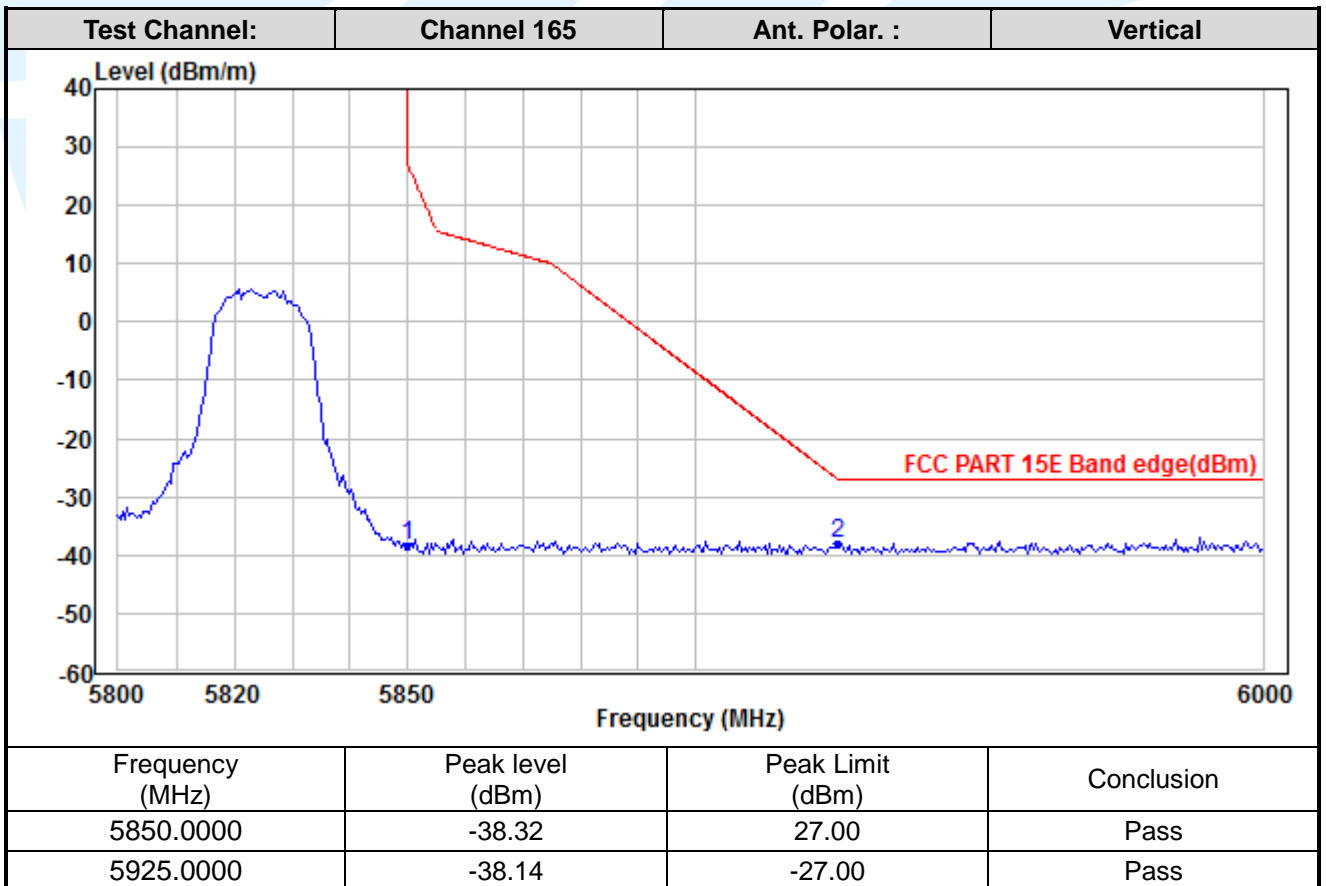
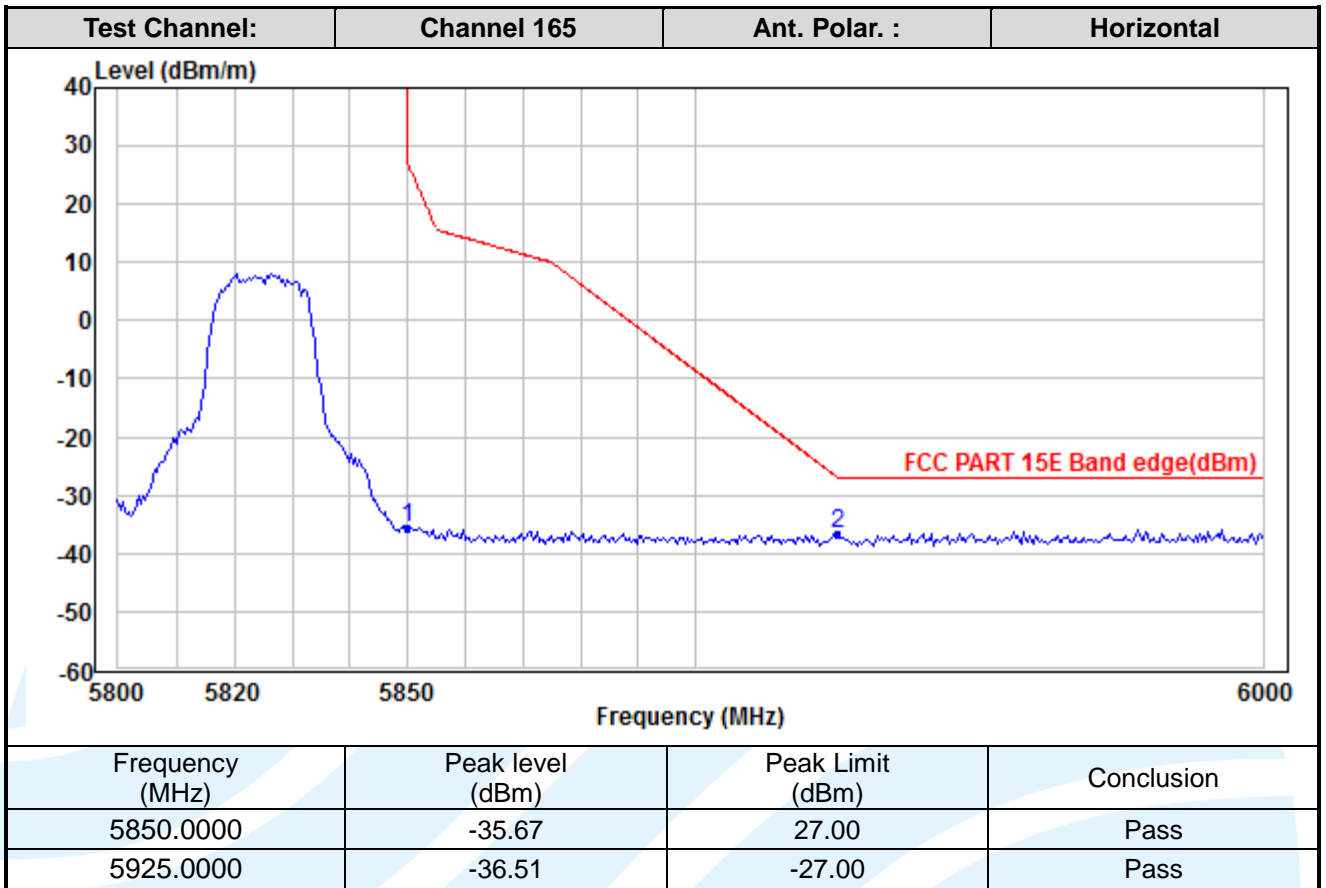
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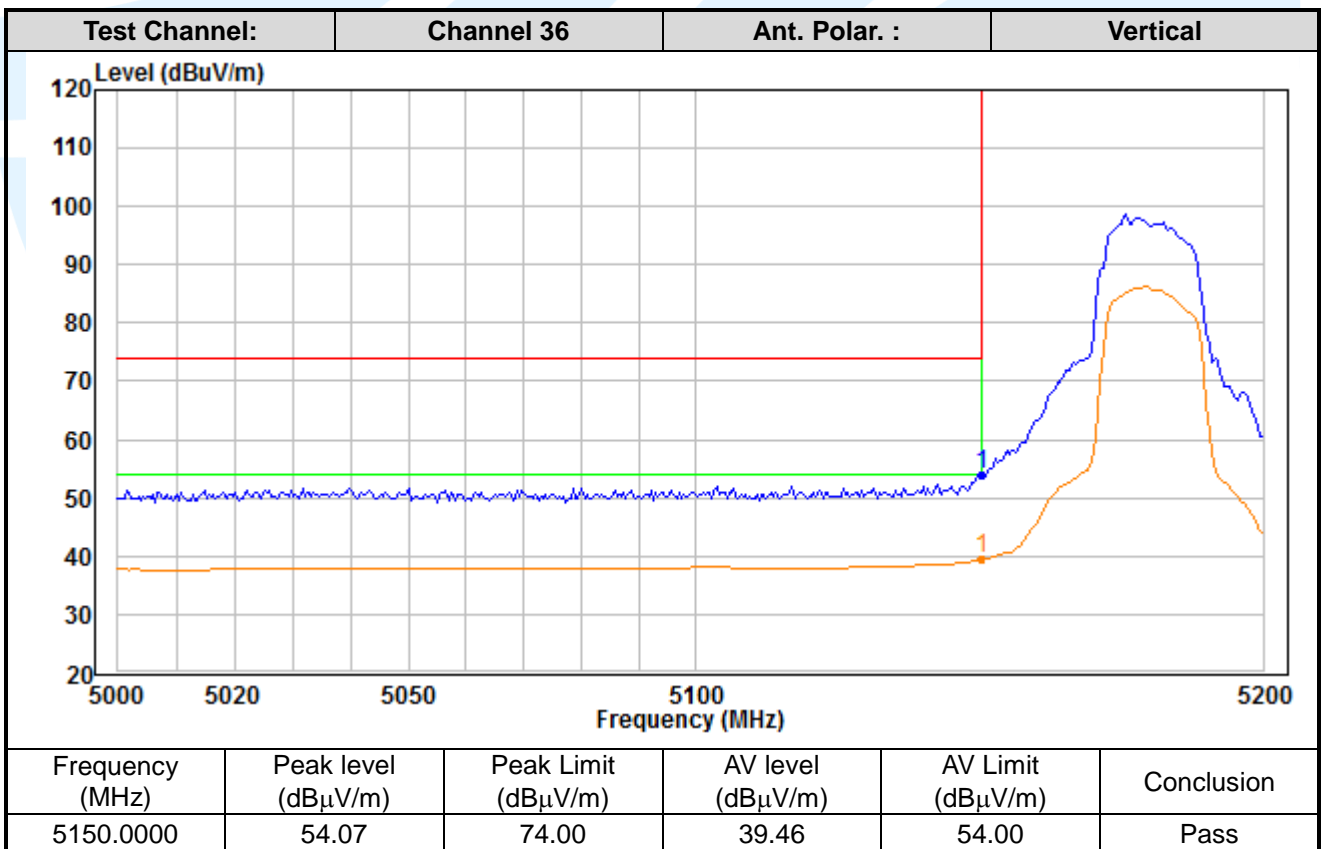
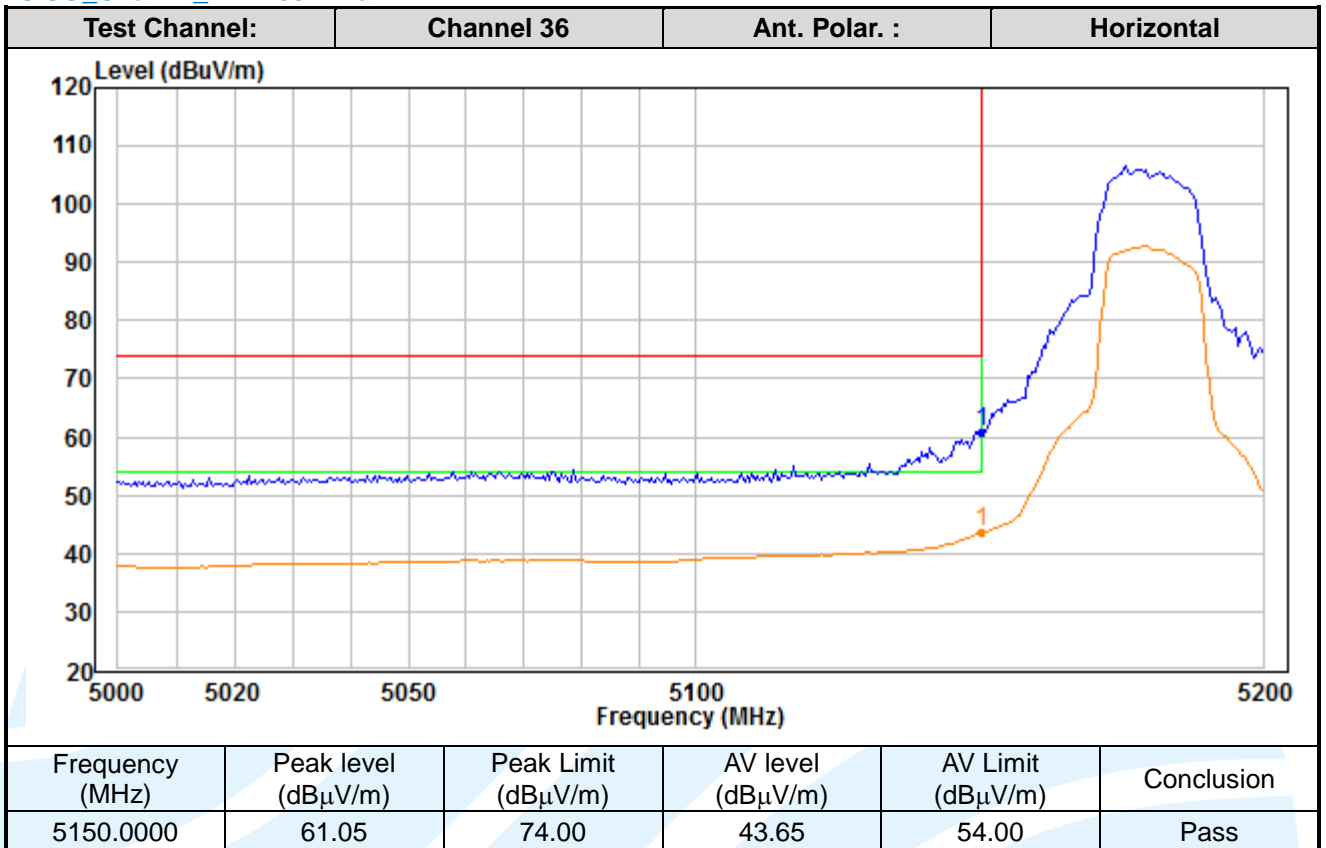
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SISO\_Chain 1\_ IEEE 802.11a



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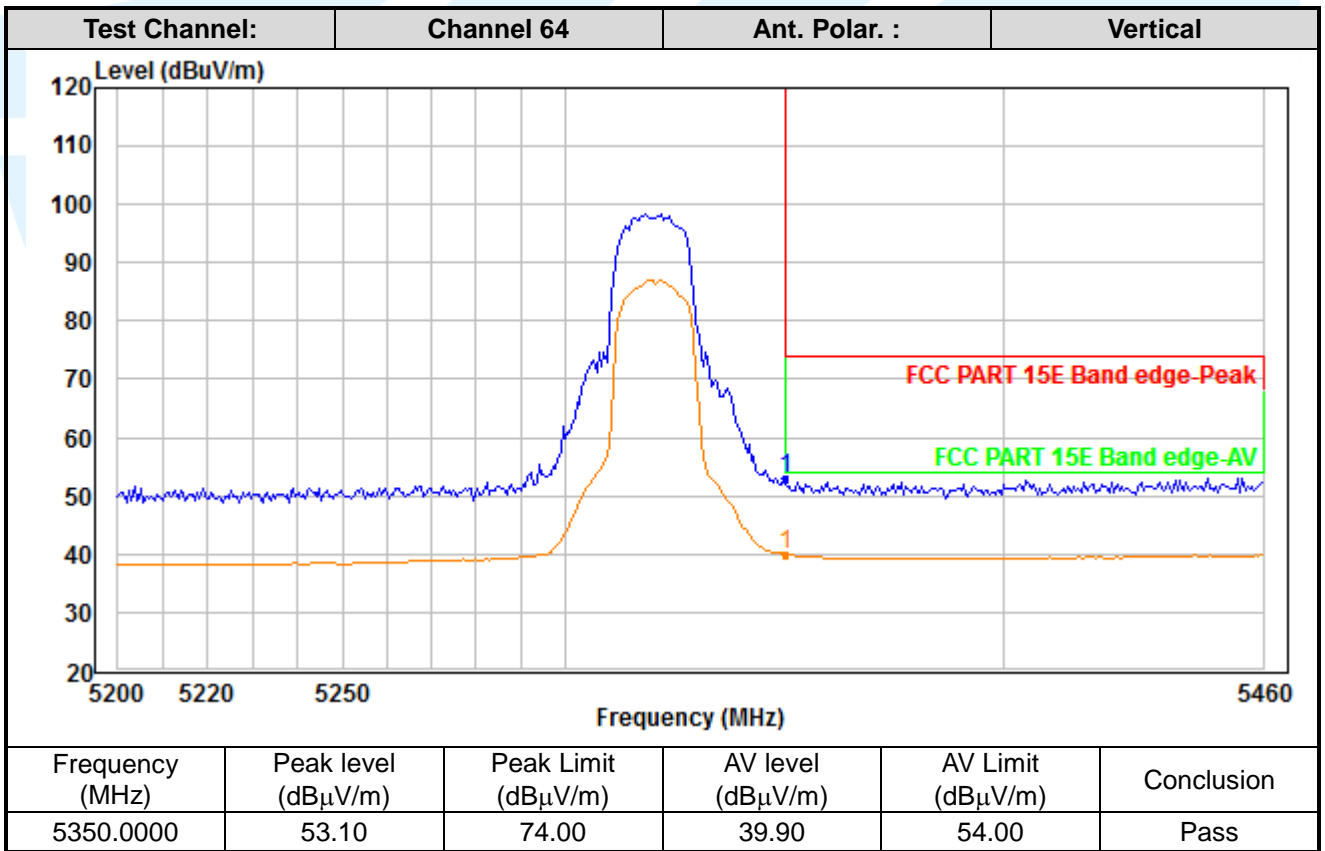
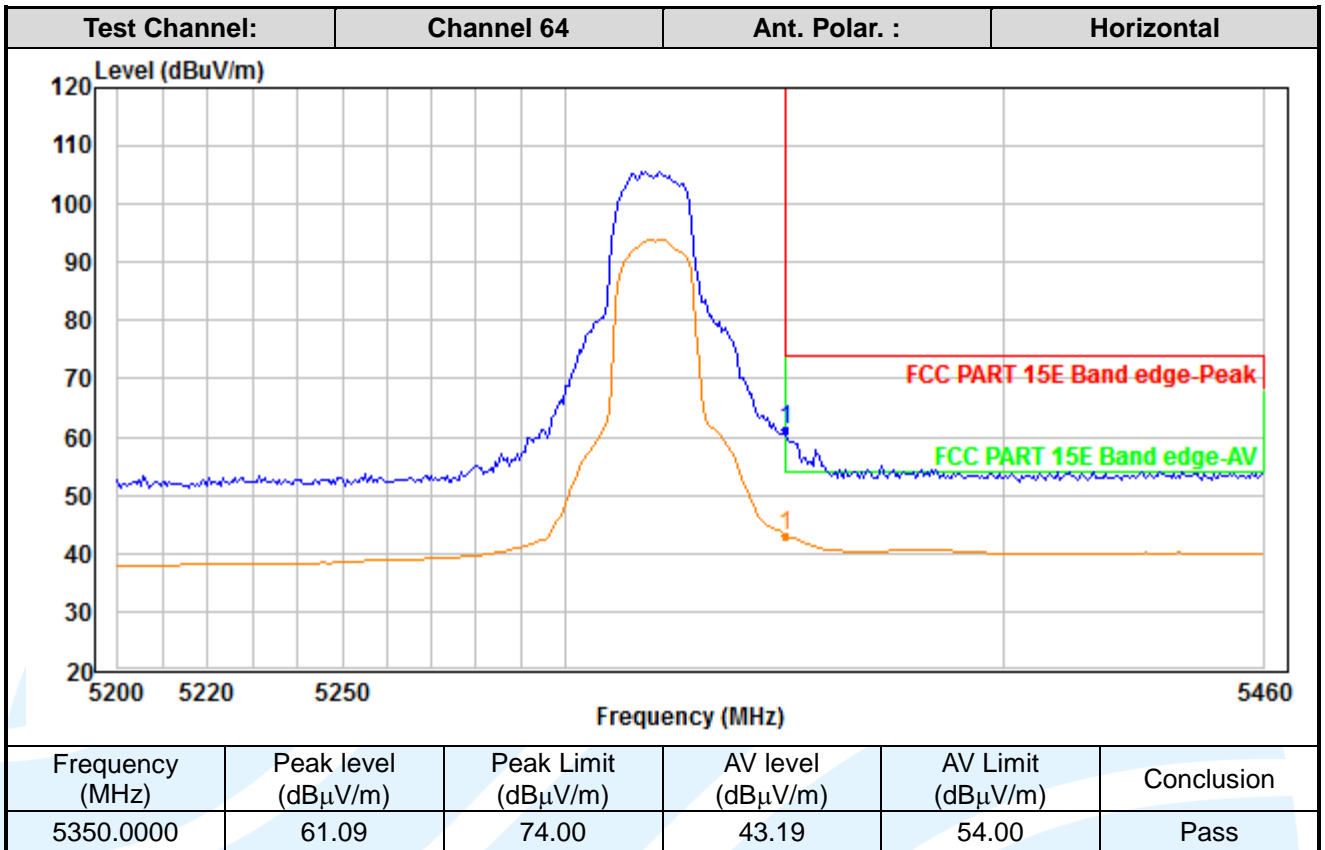
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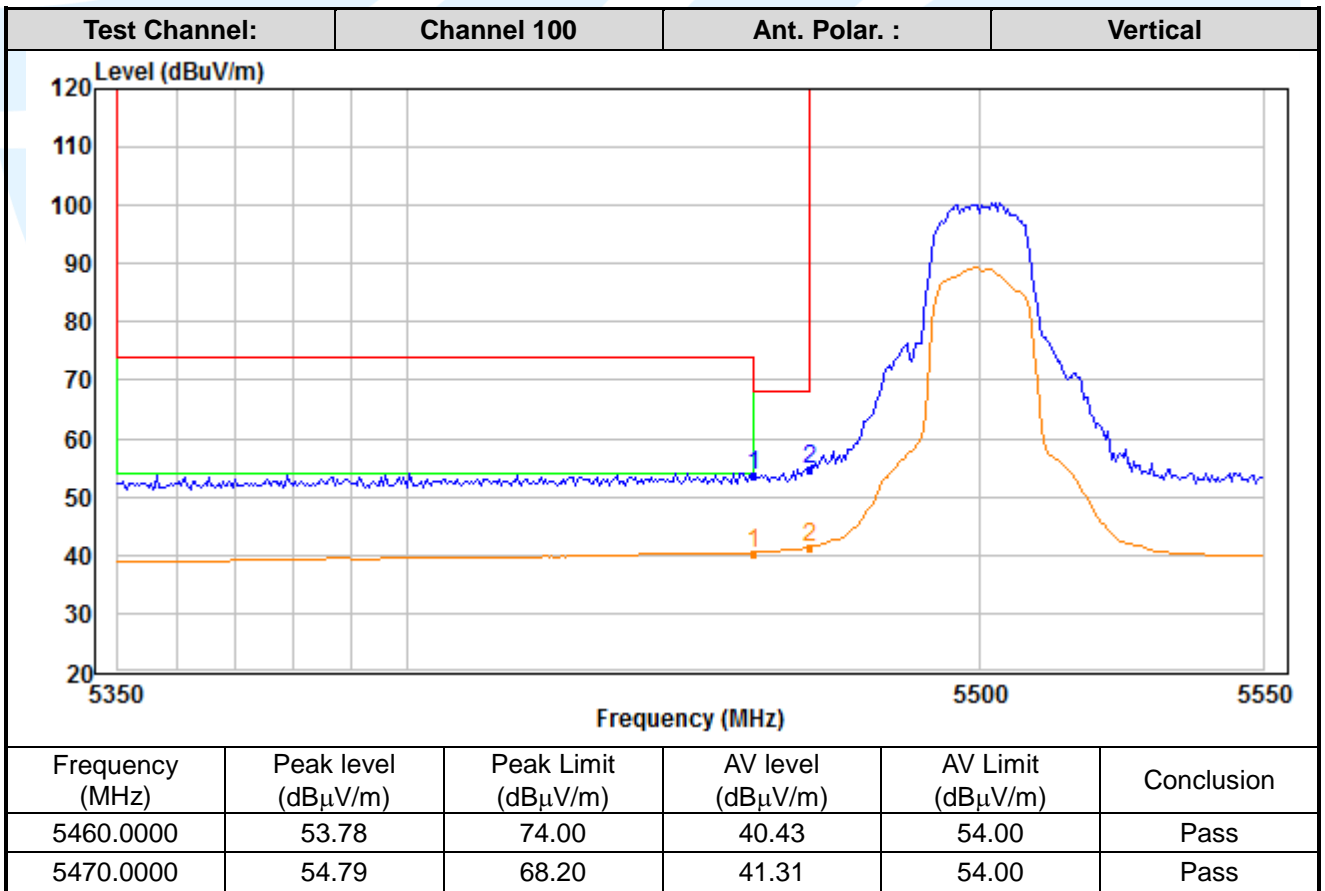
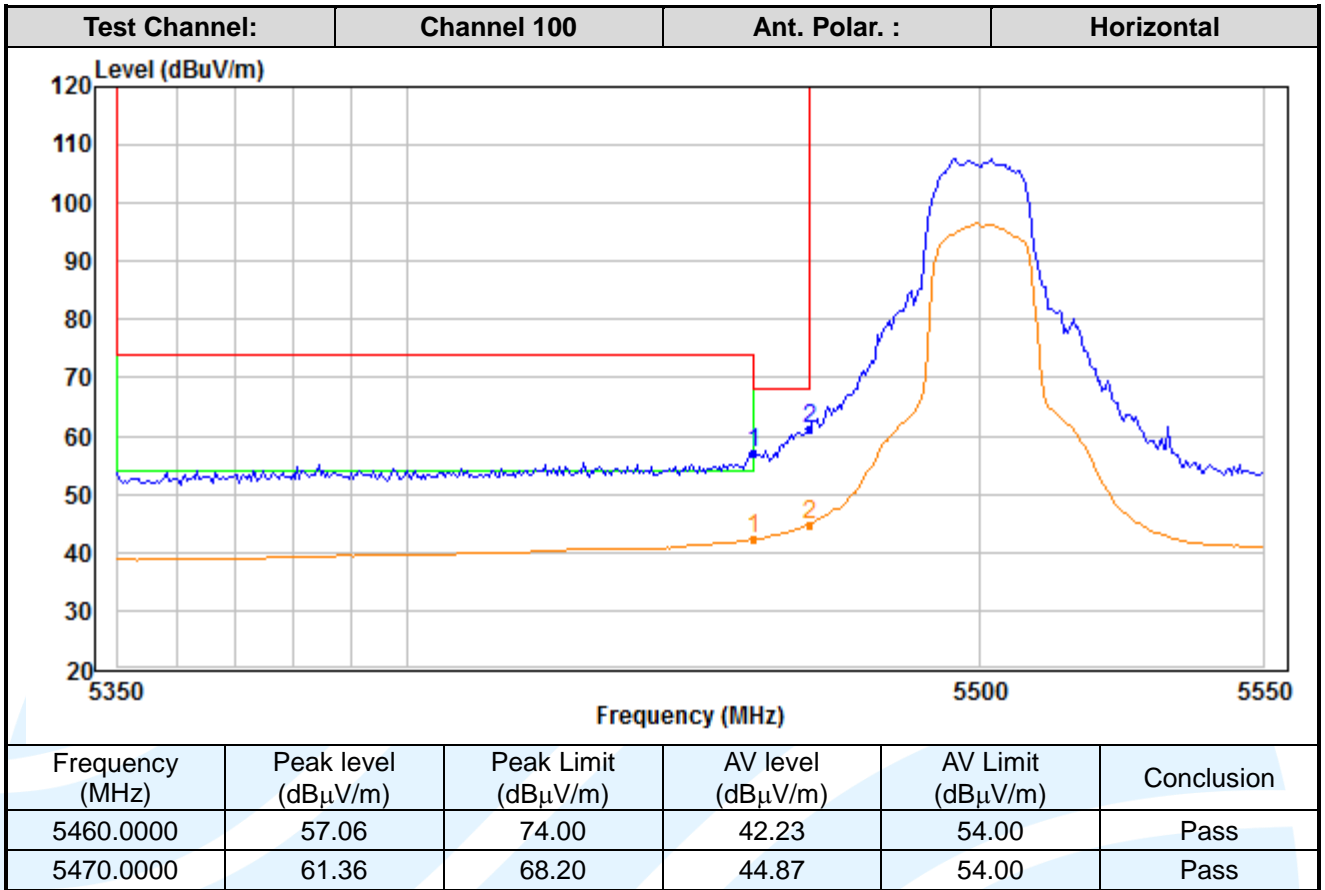
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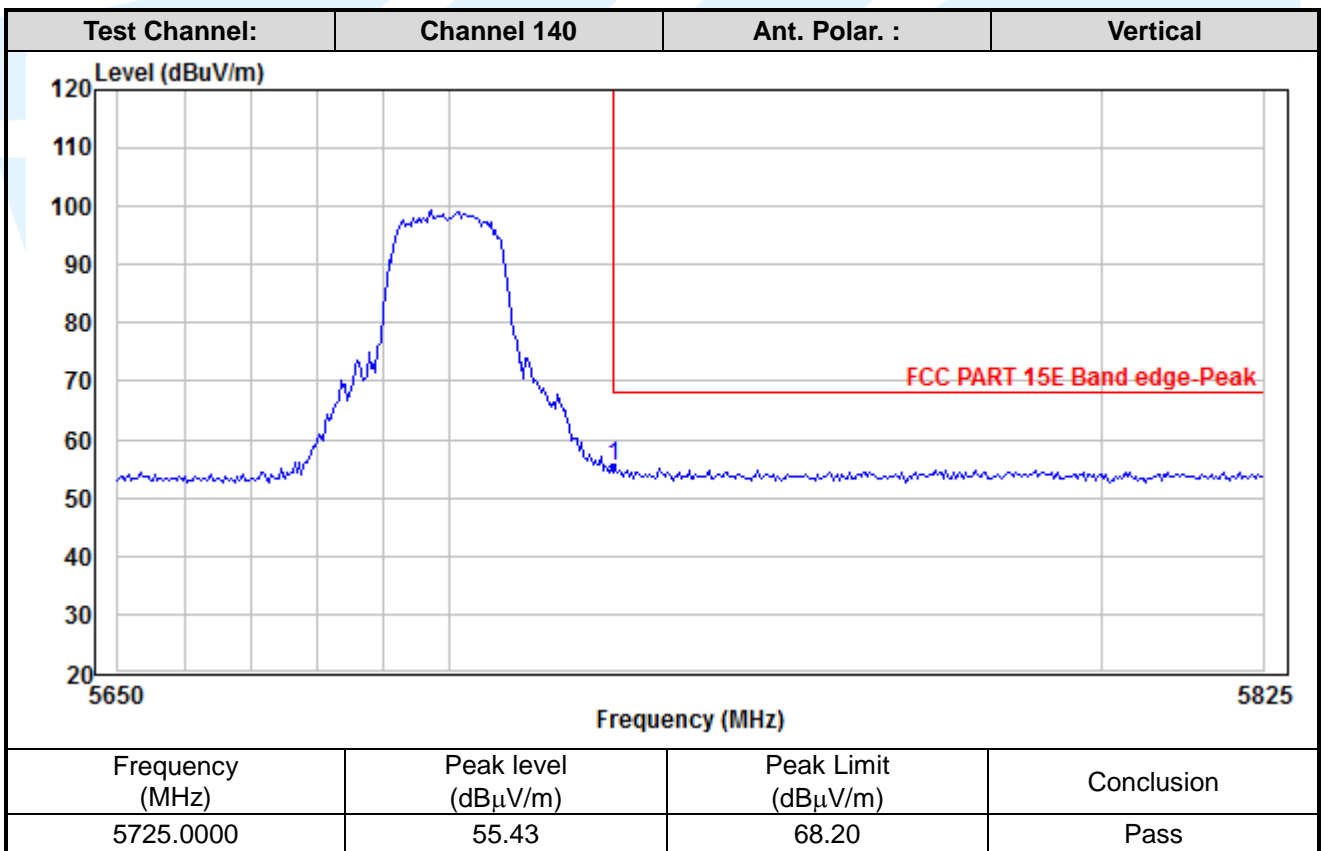
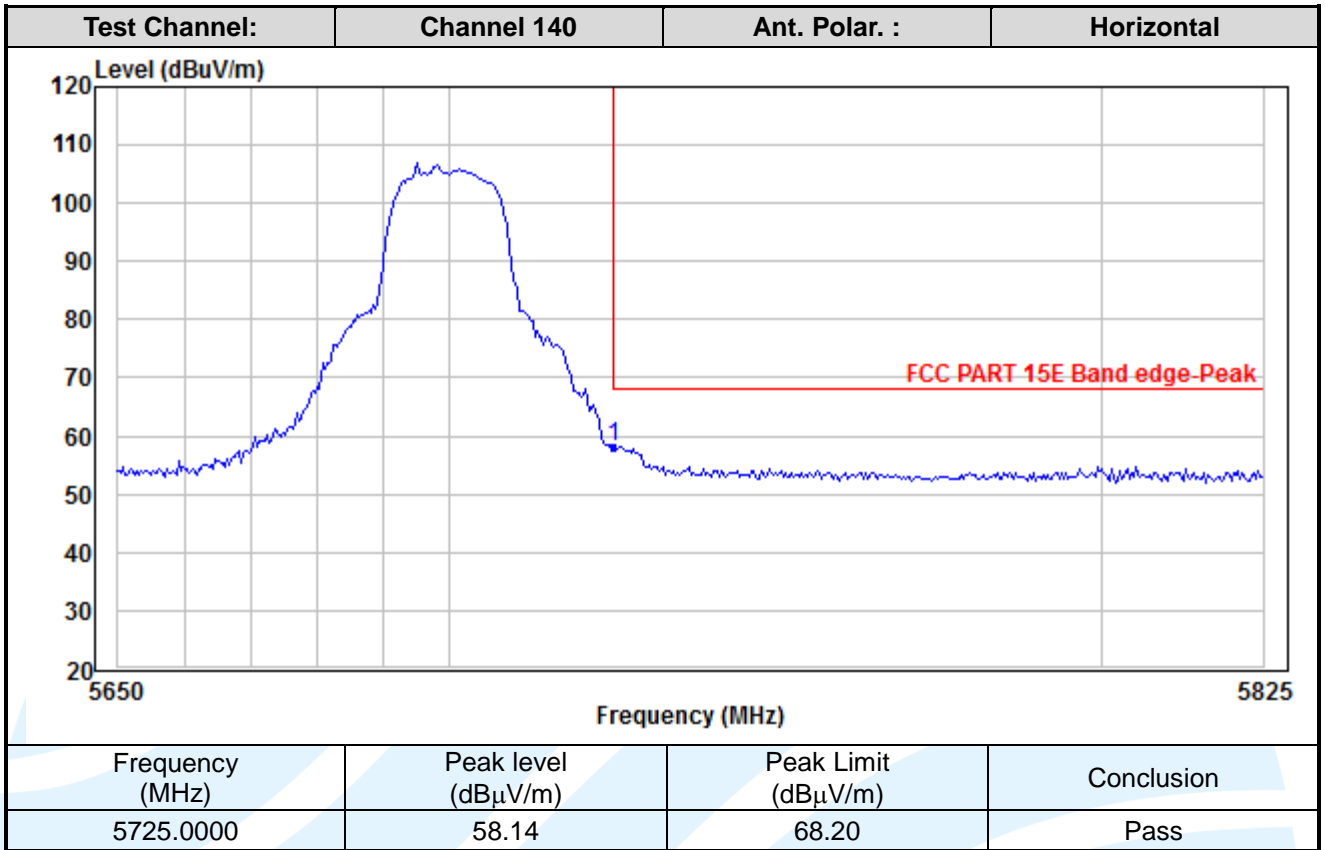
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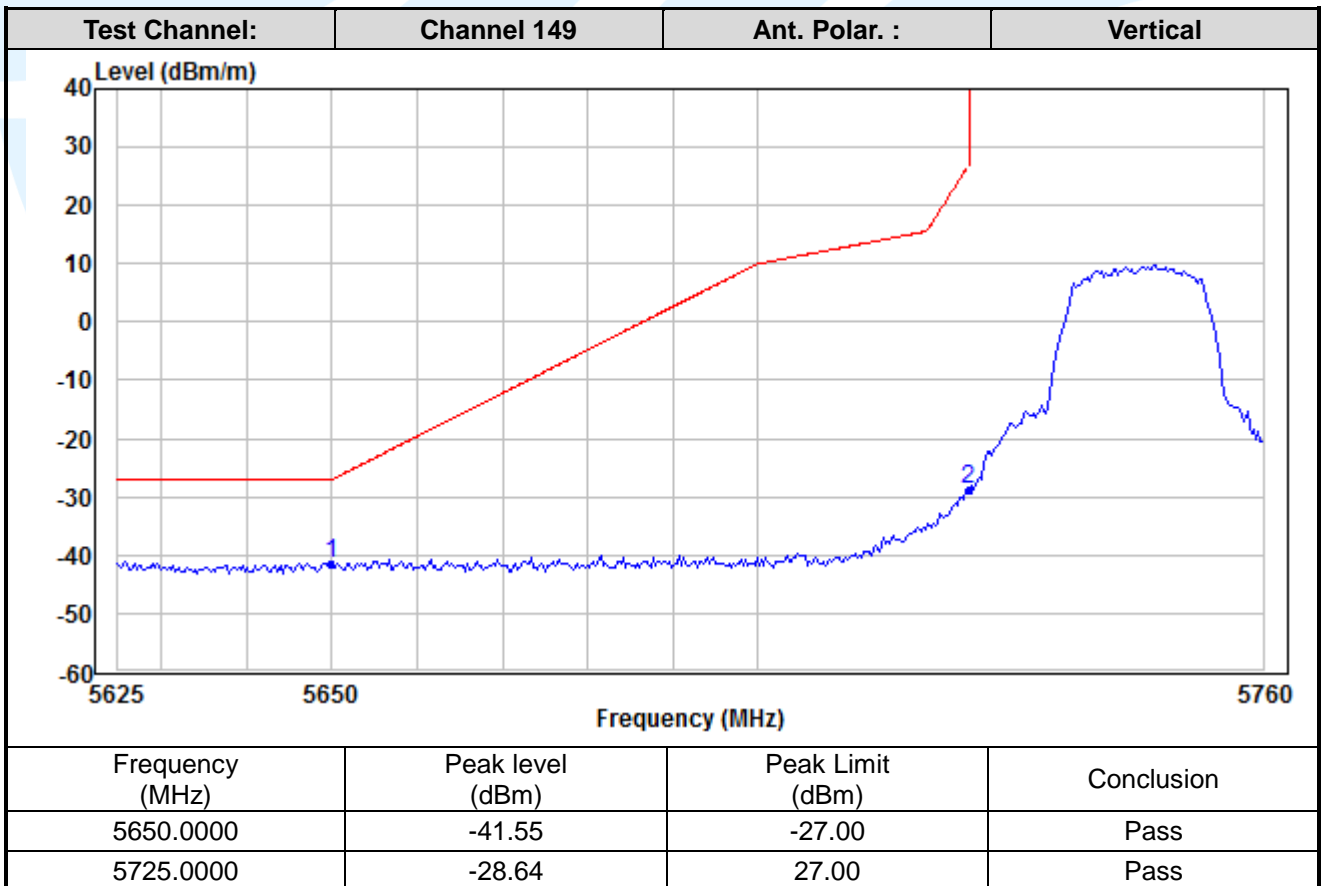
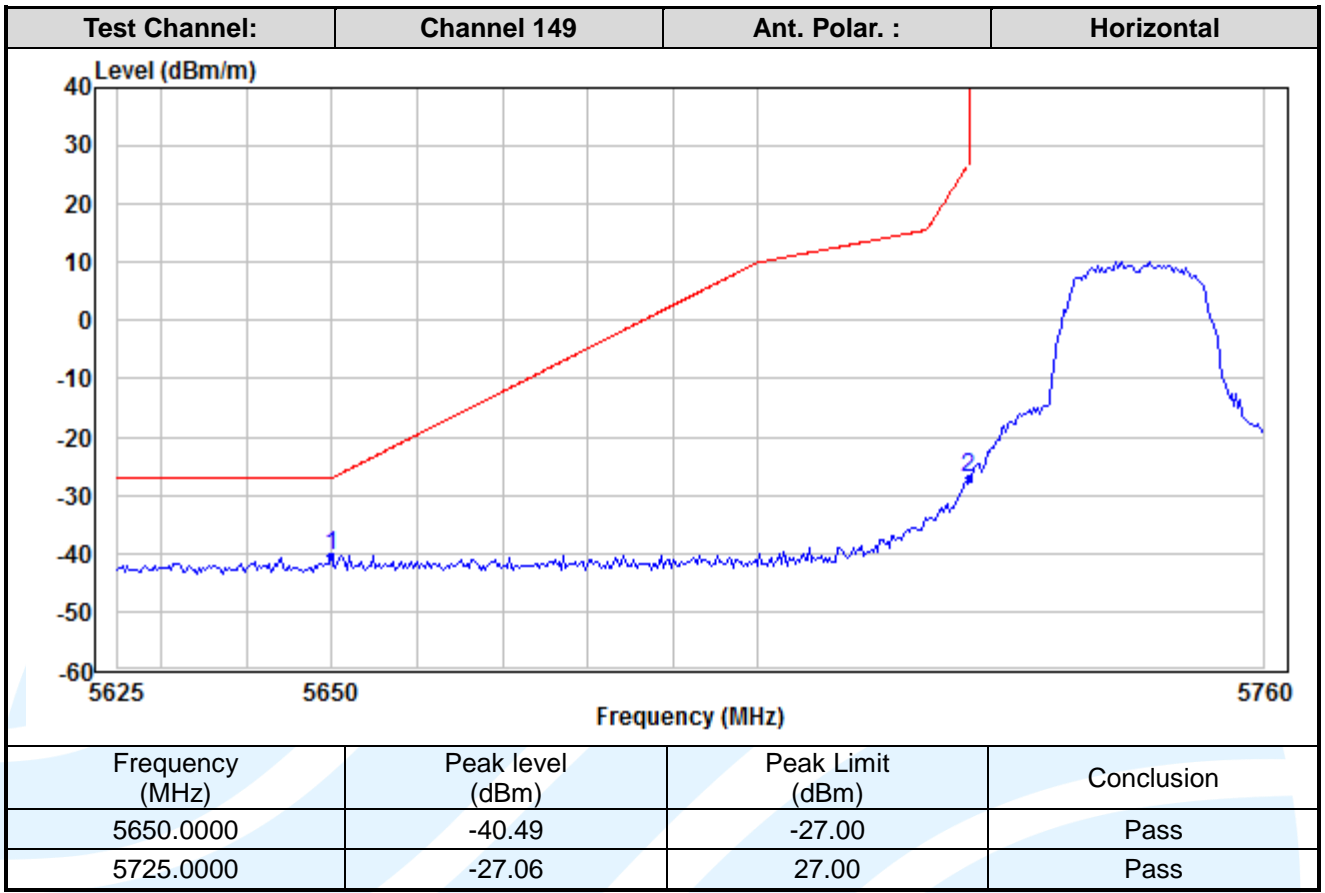
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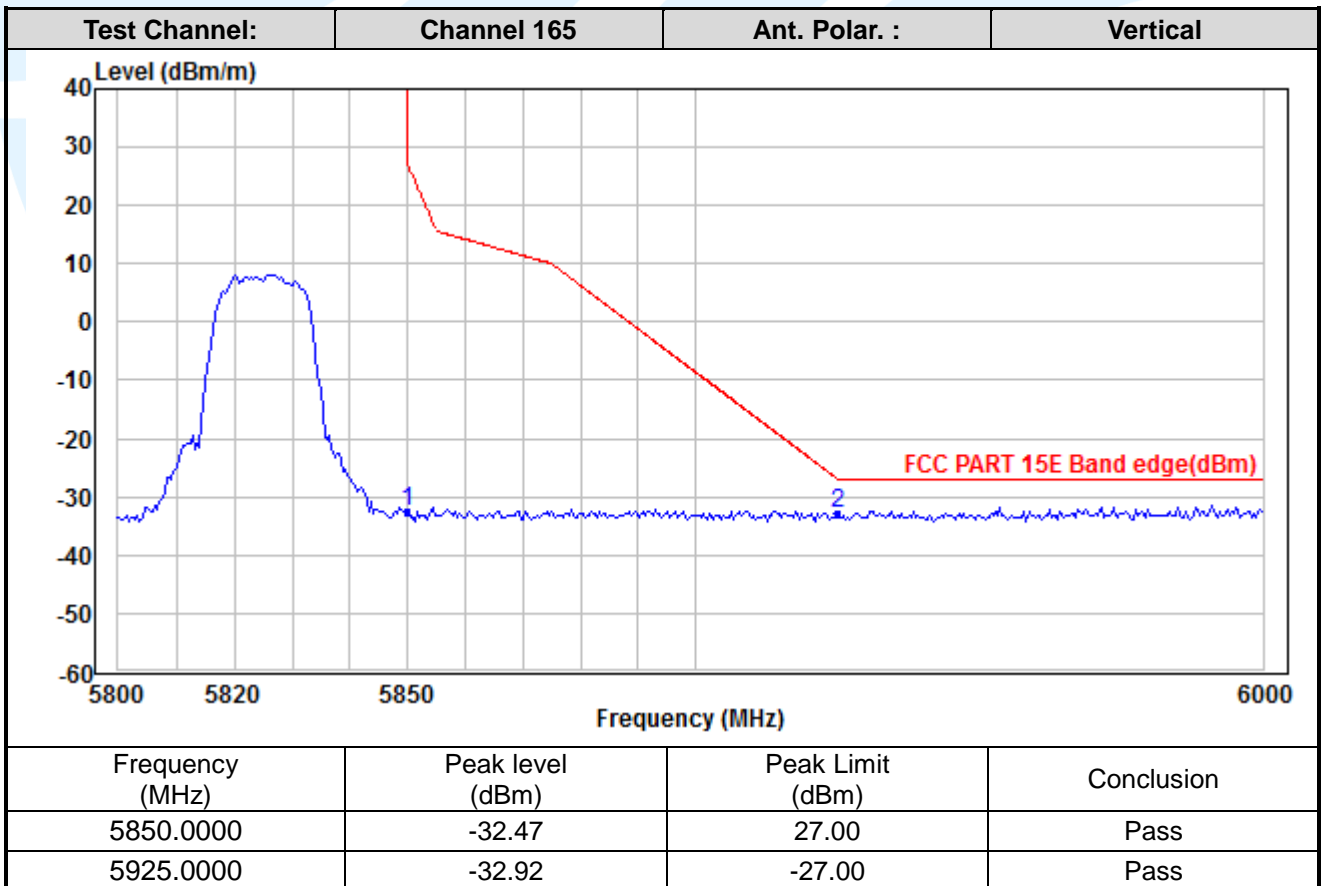
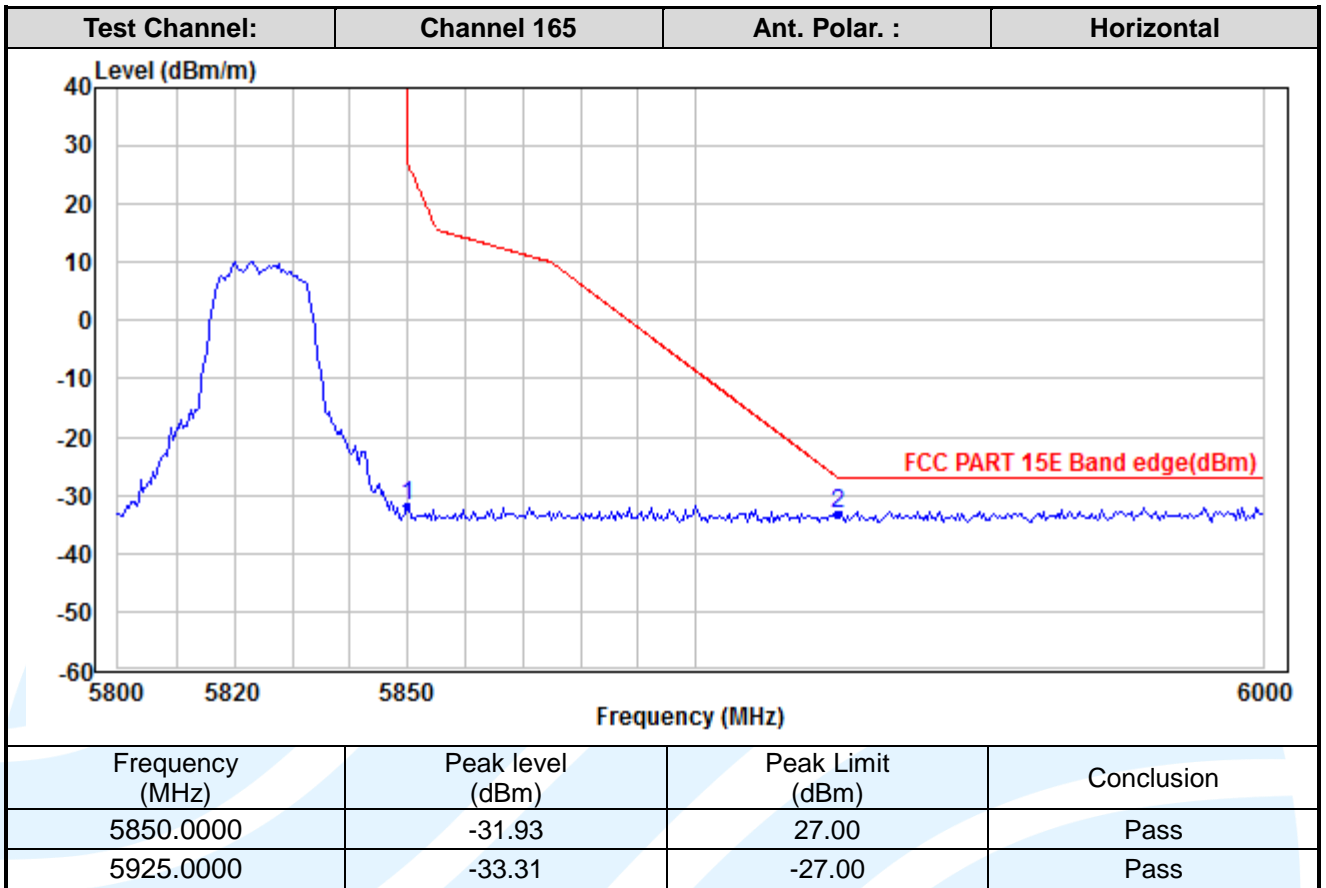
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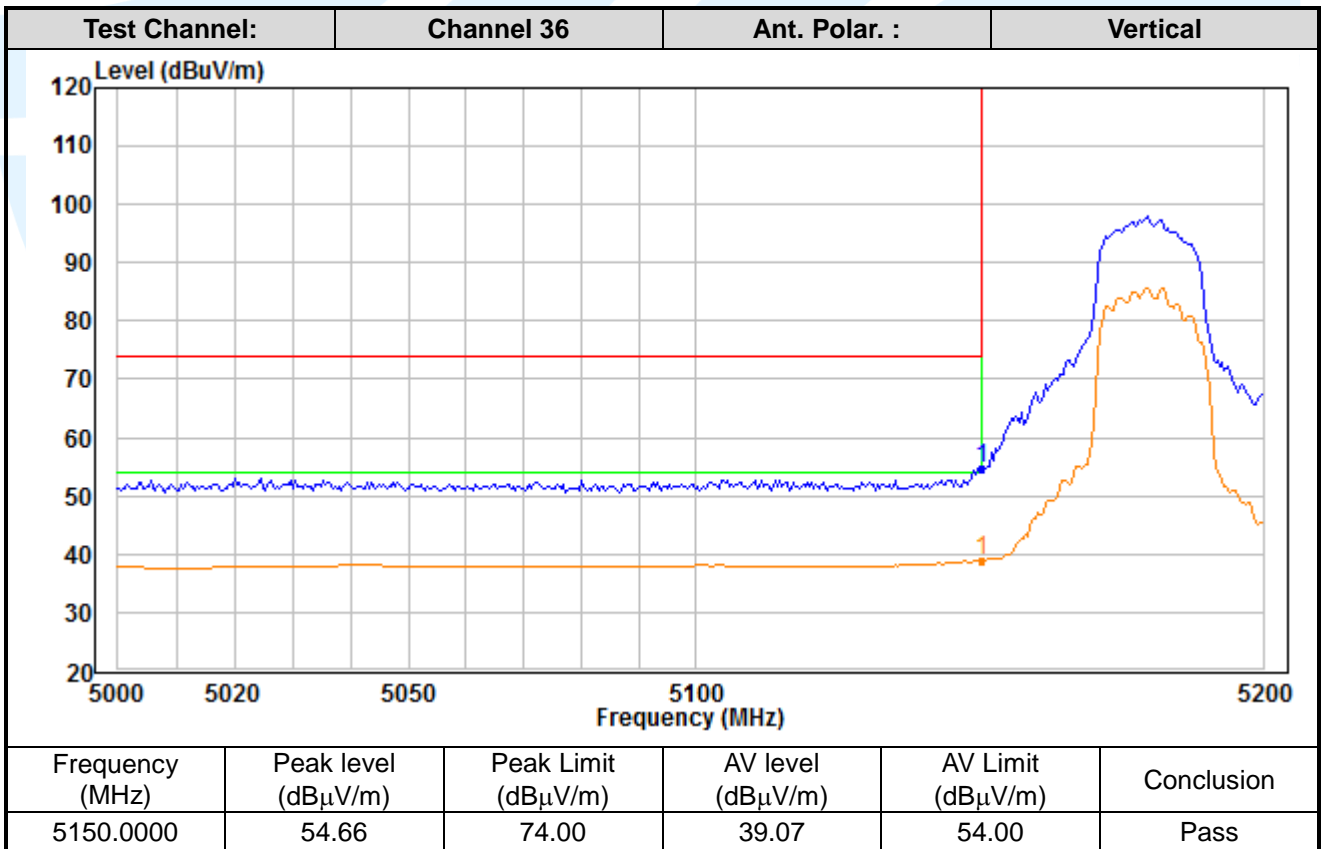
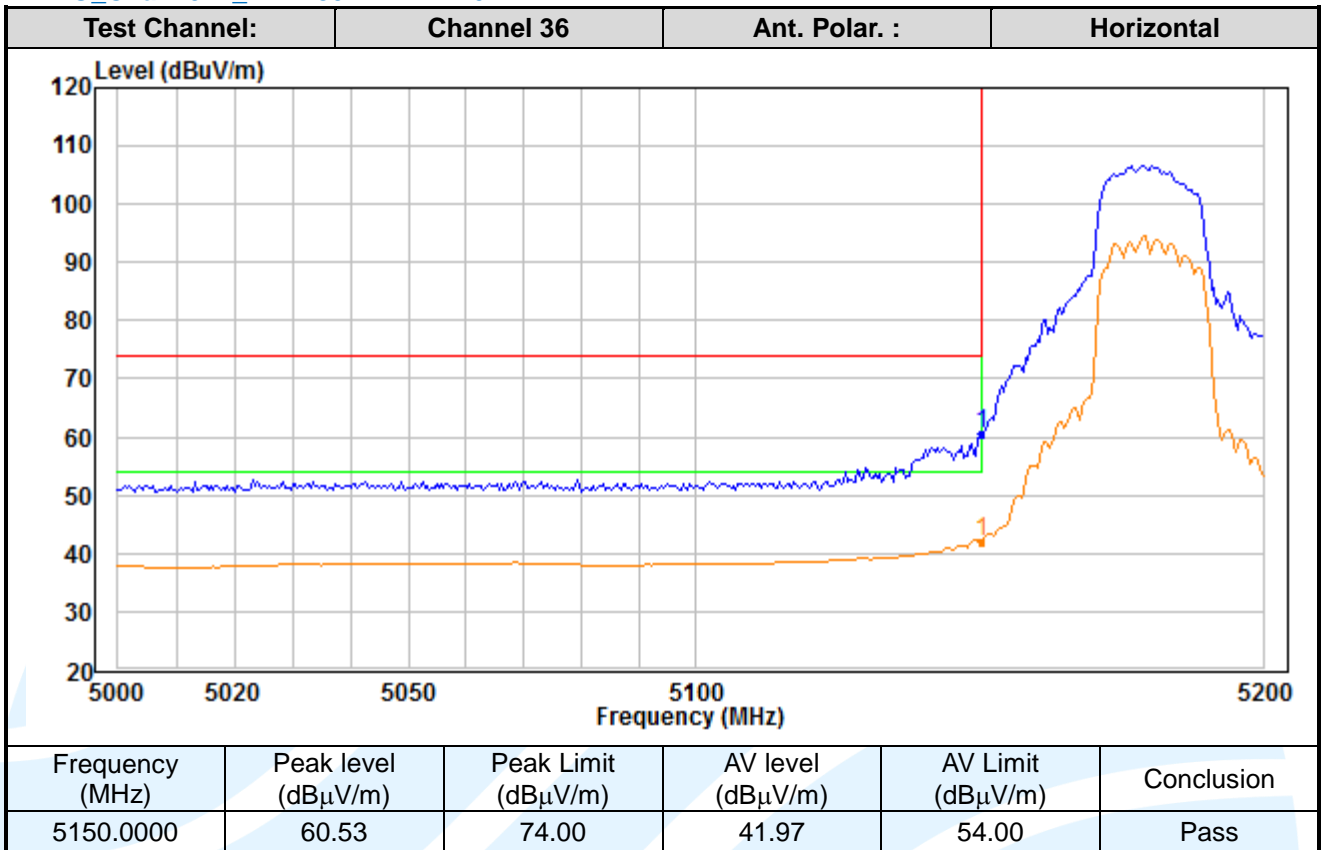
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MIMO\_Chain 0+1\_ IEEE 802.11n-HT20



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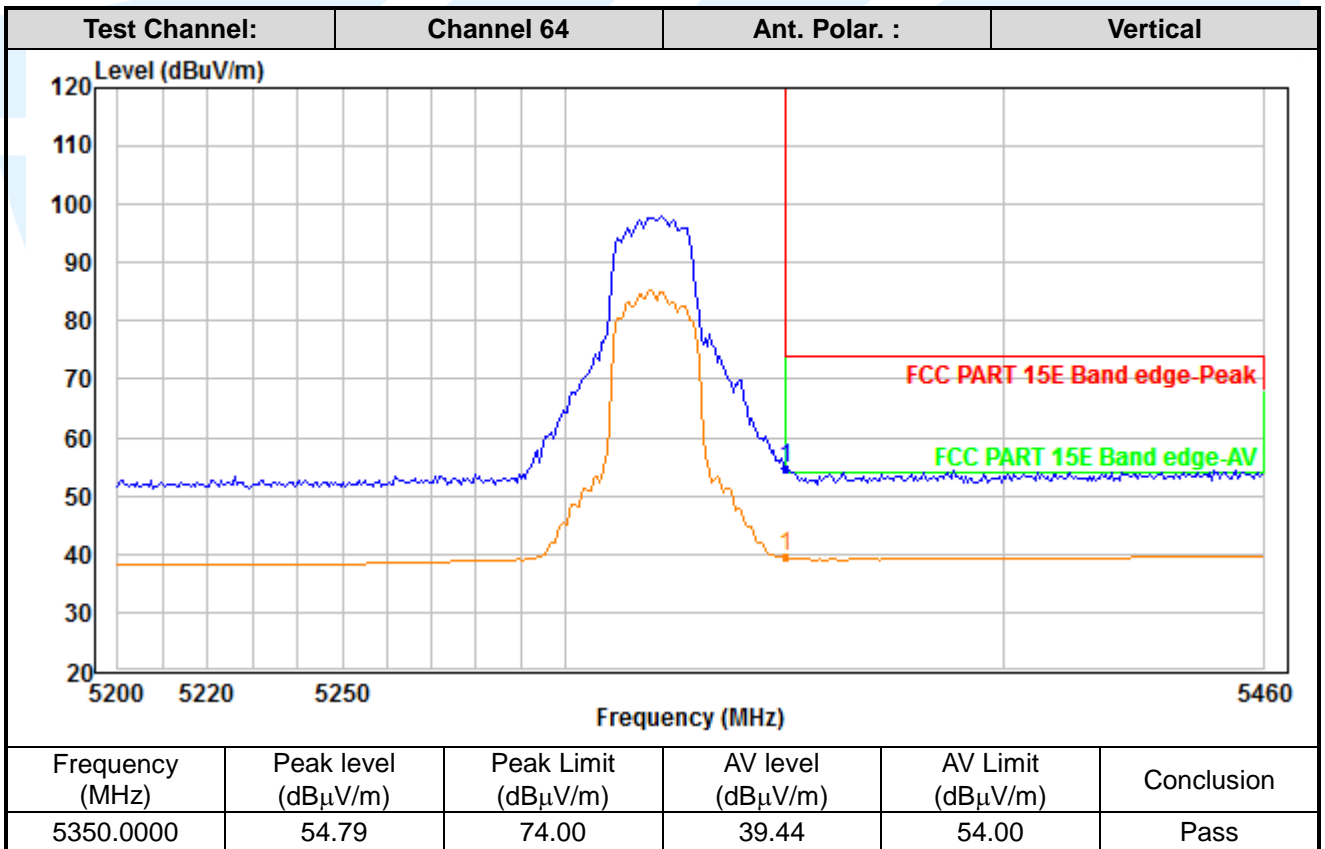
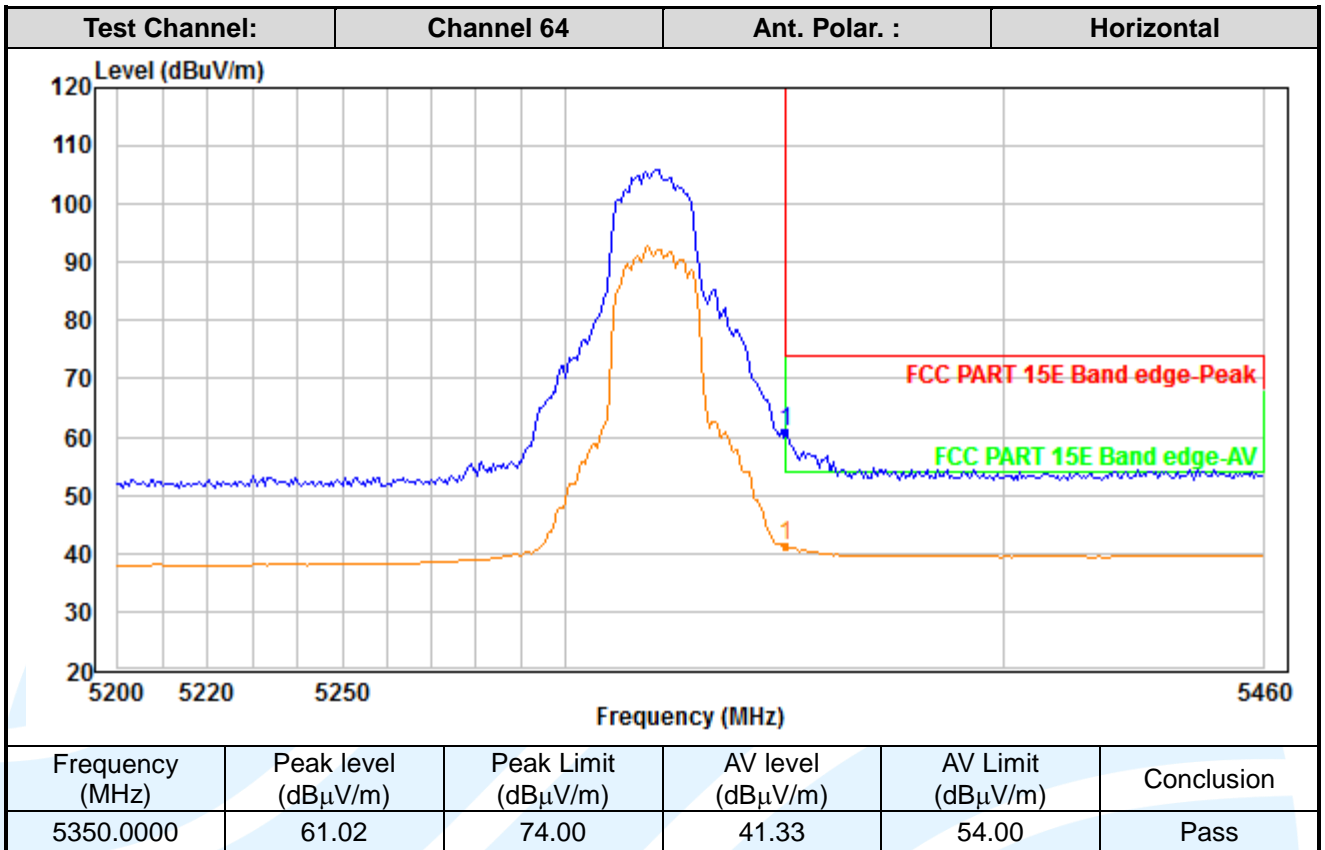
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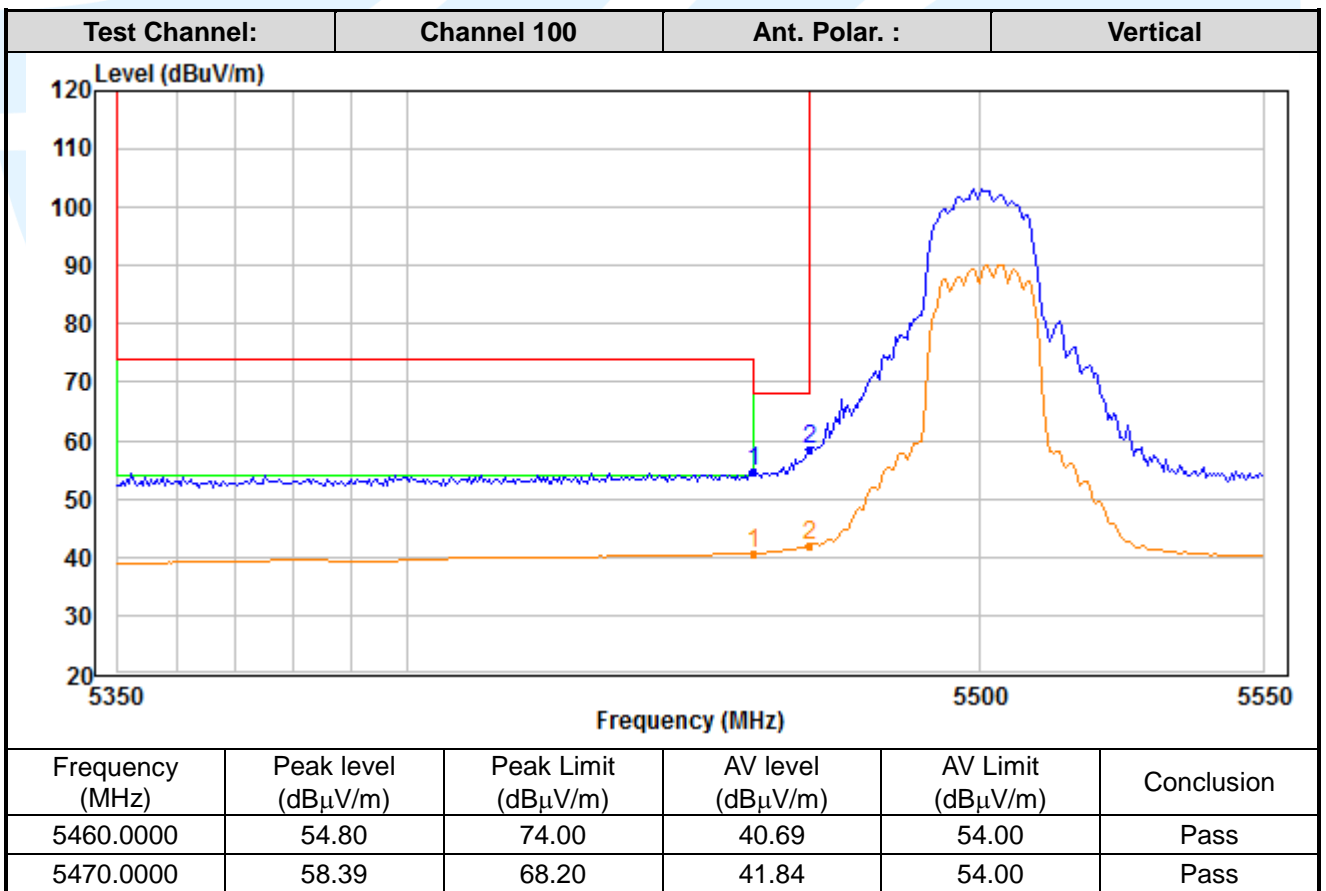
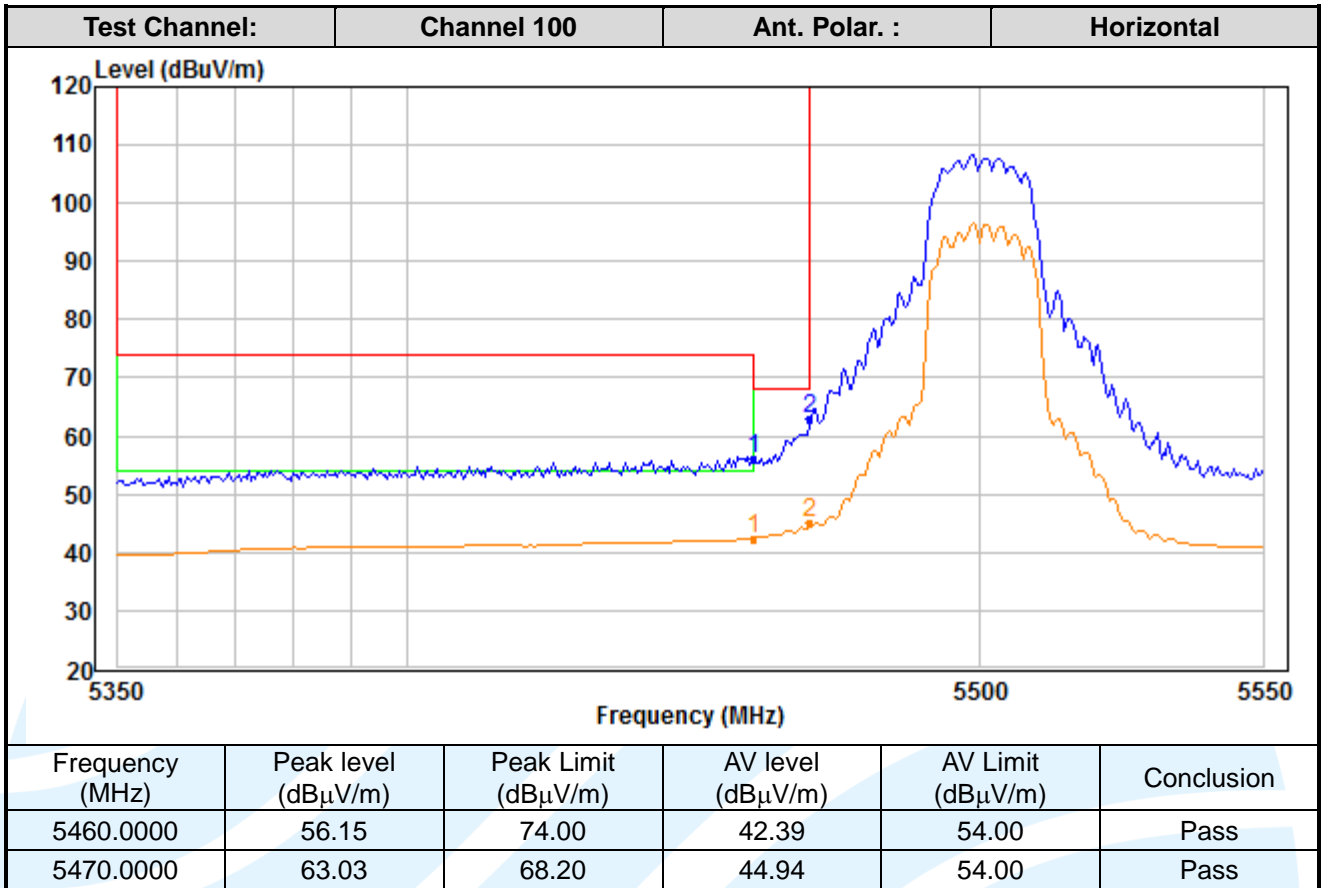
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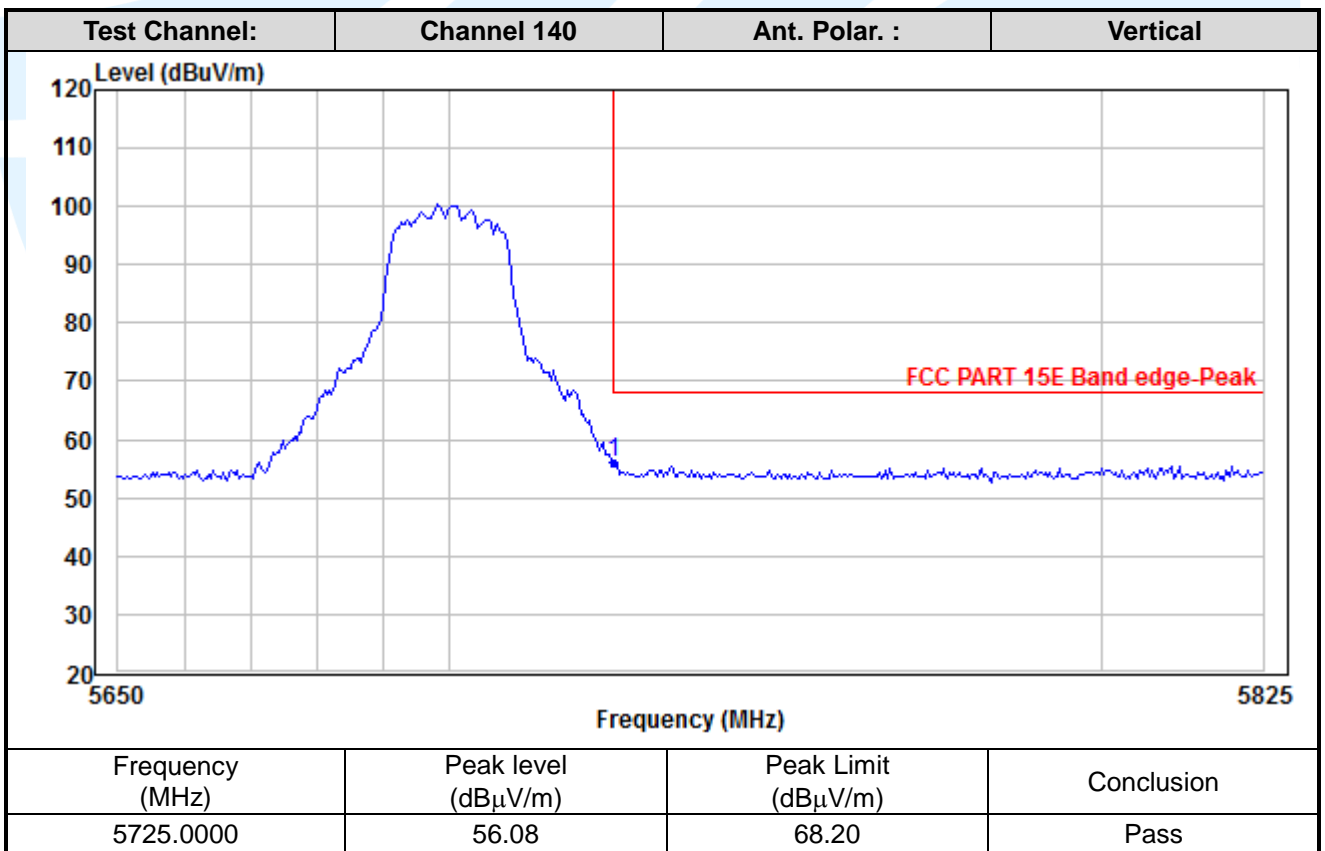
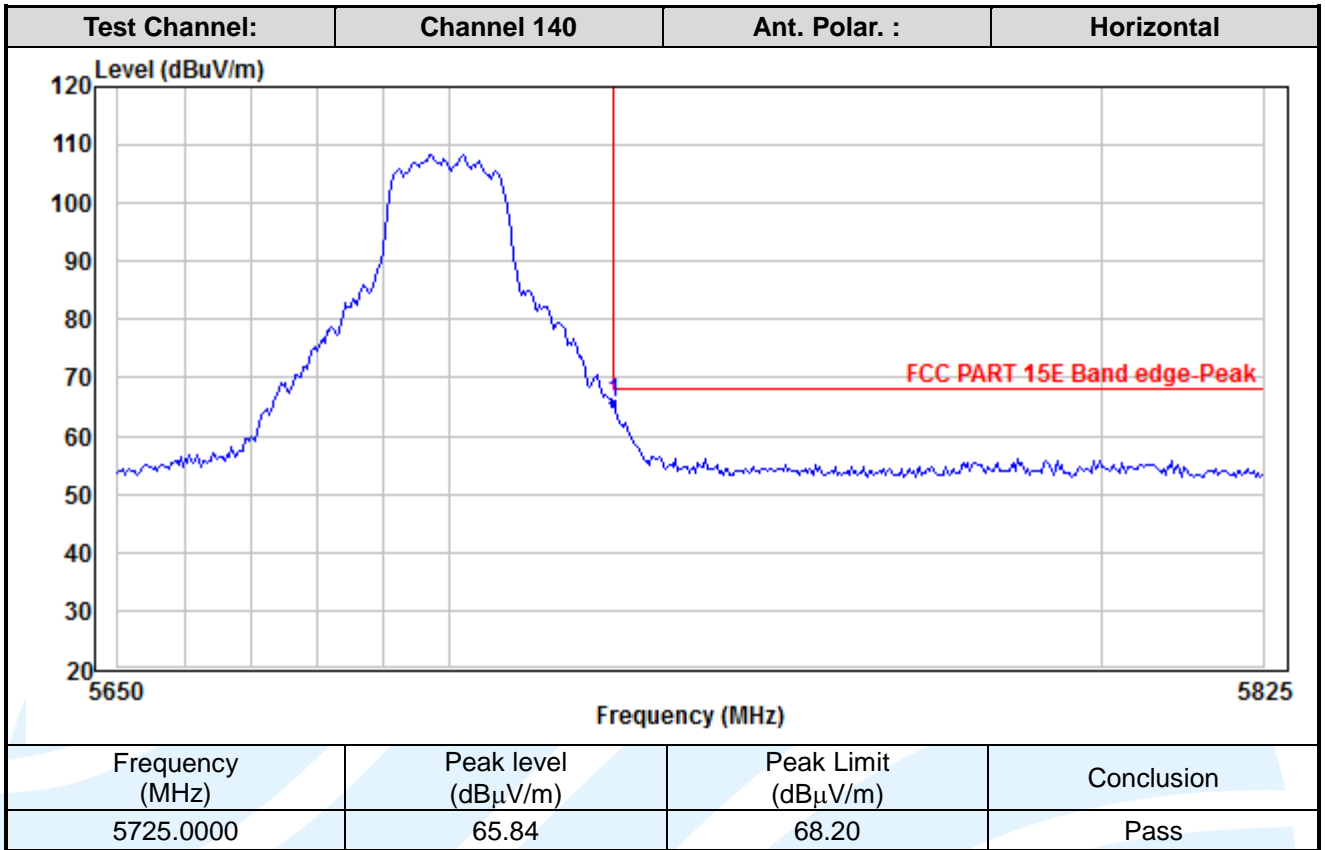
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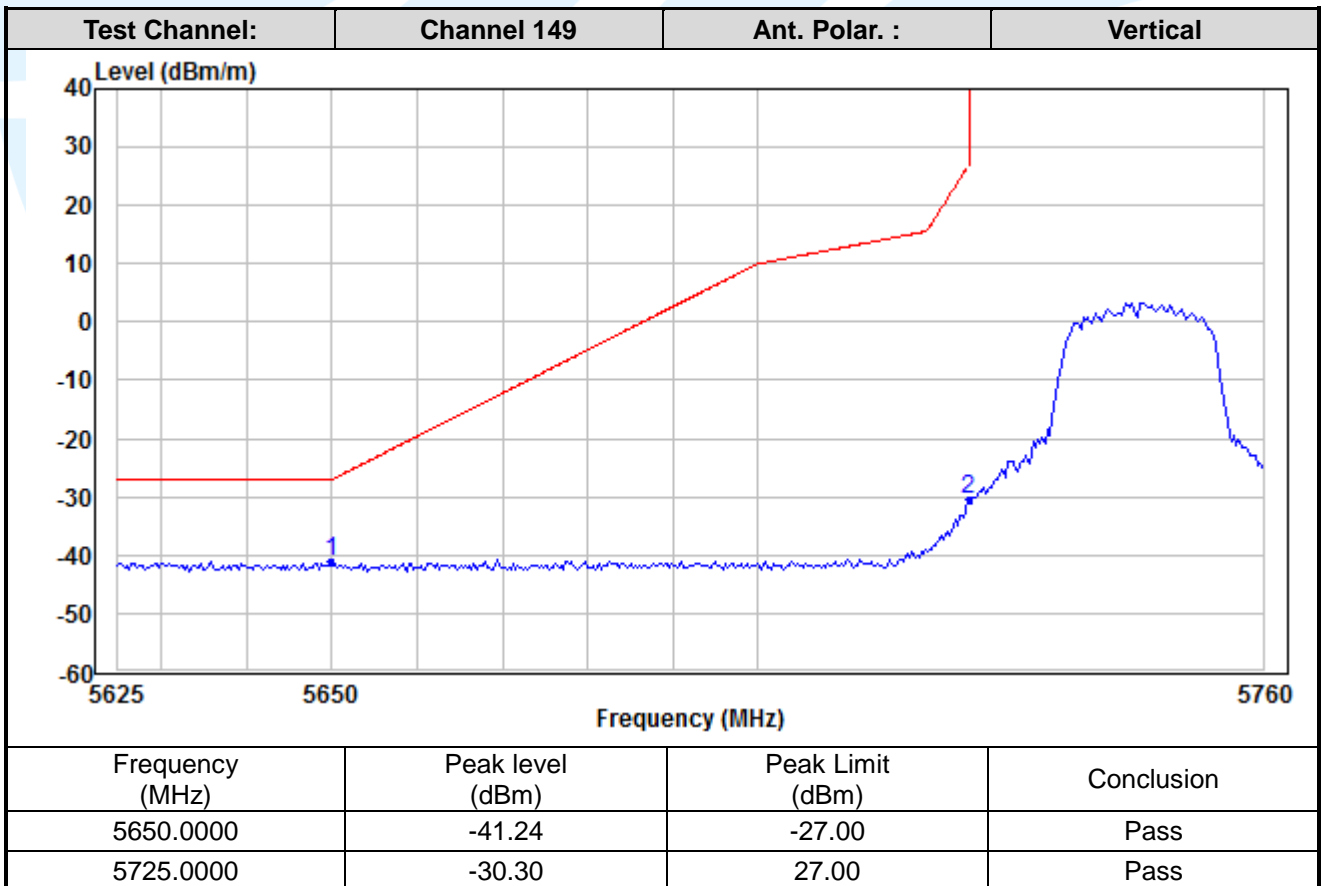
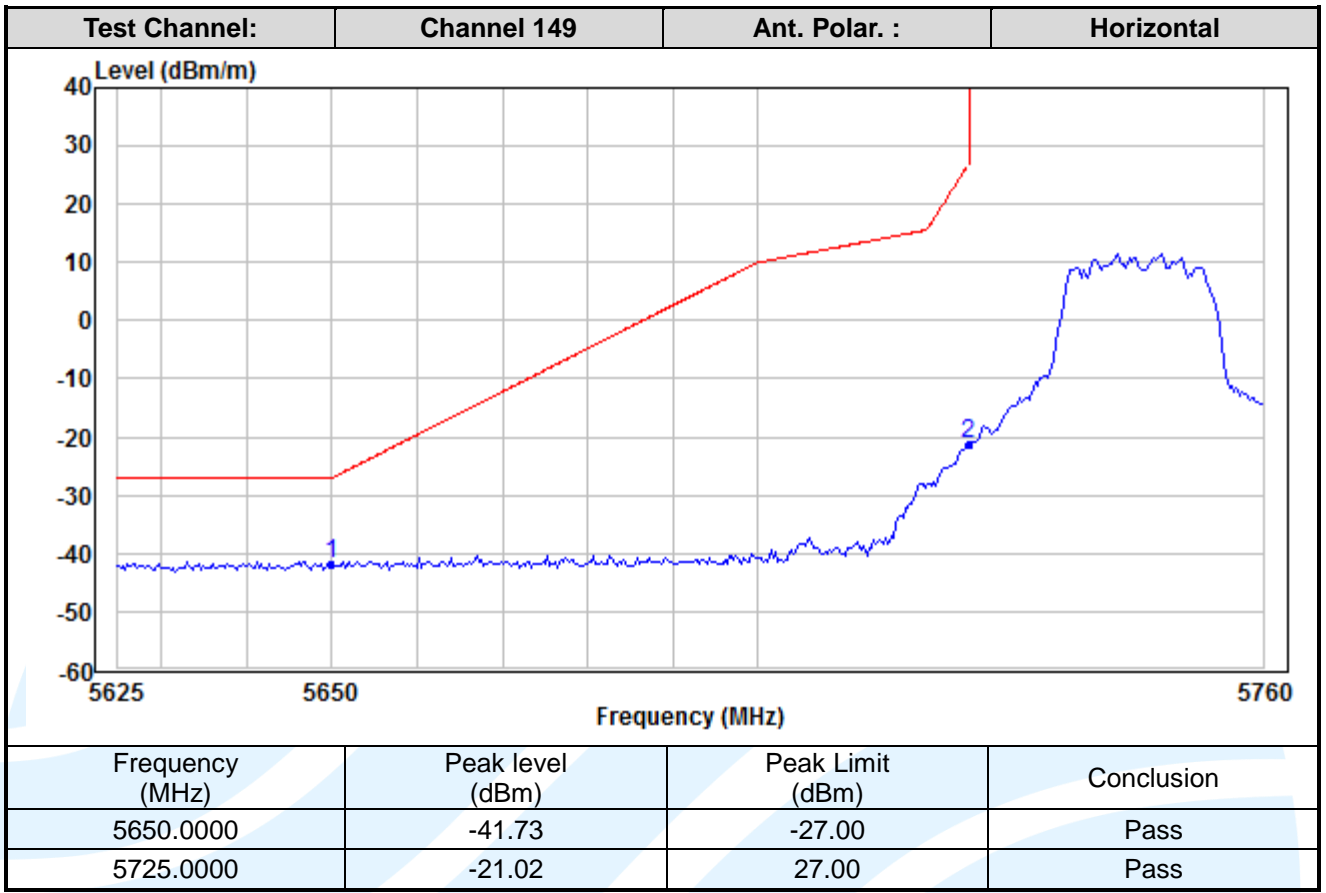
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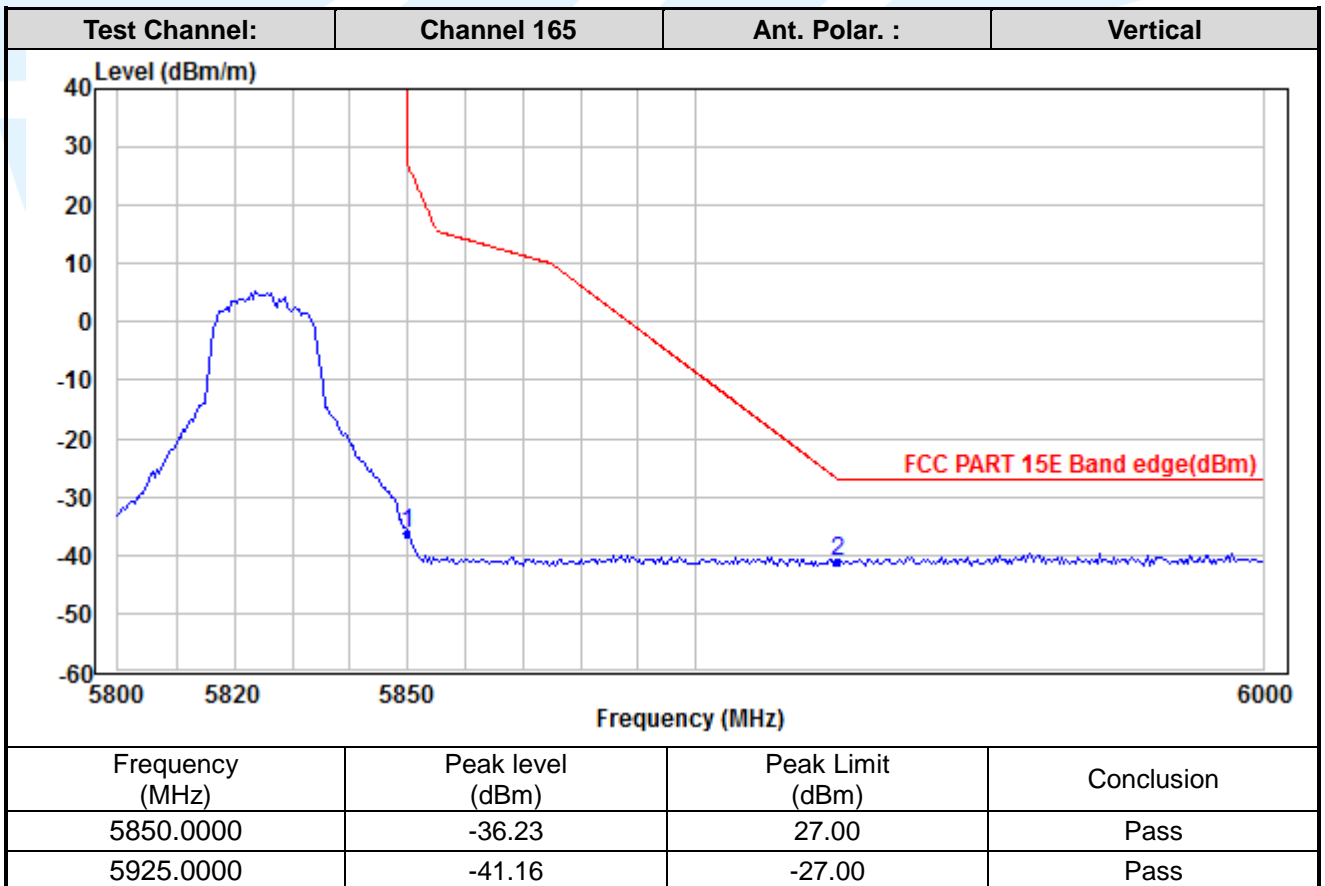
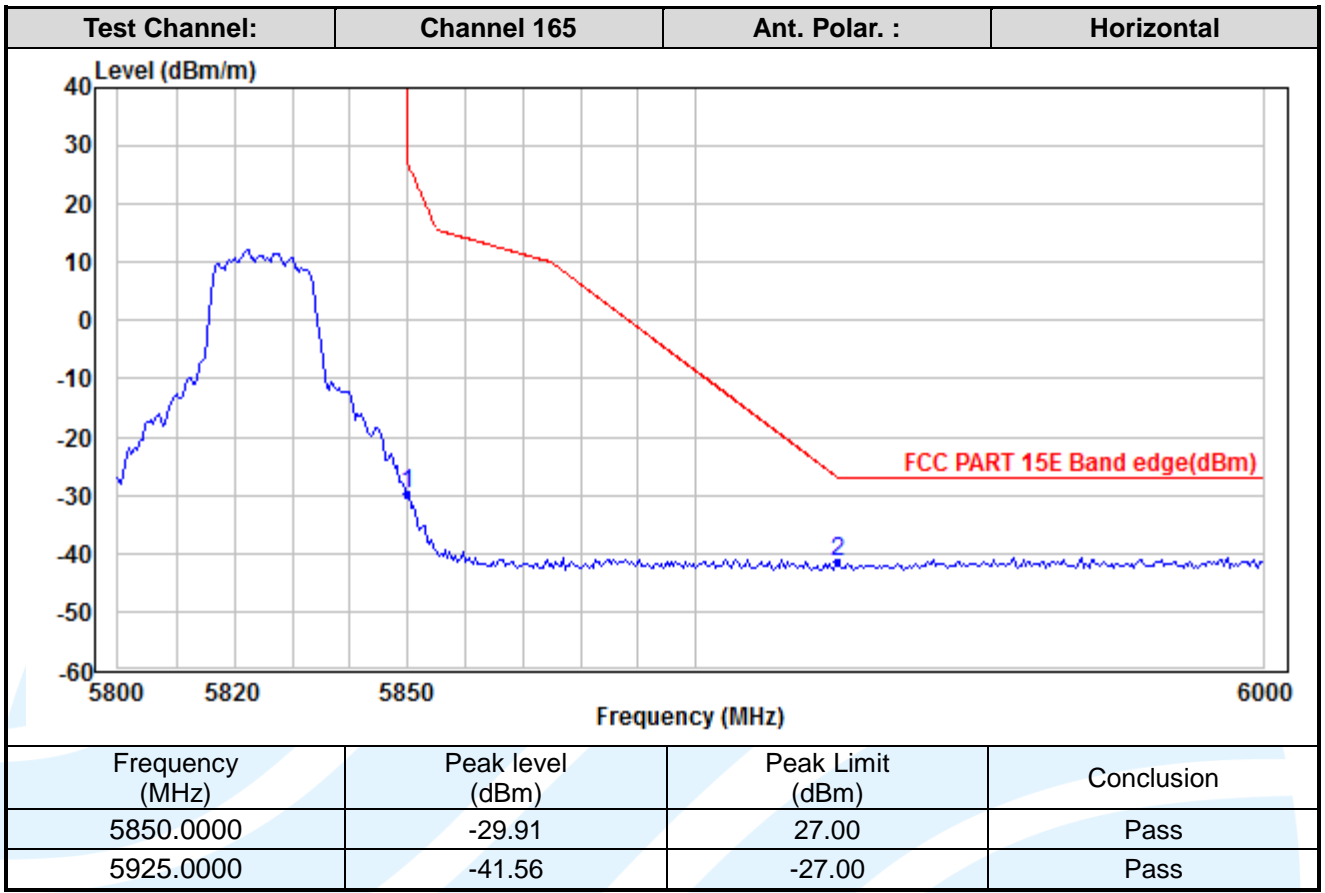
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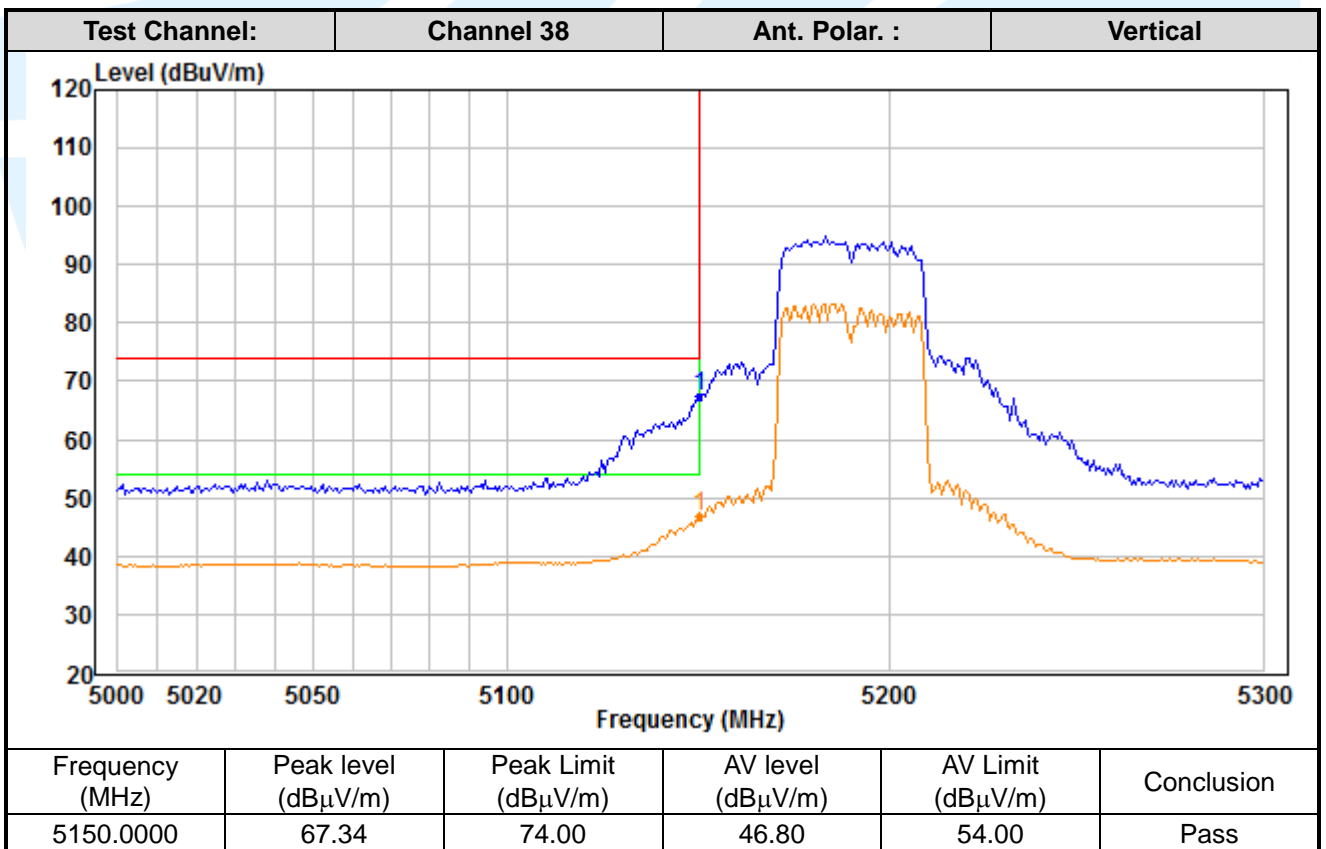
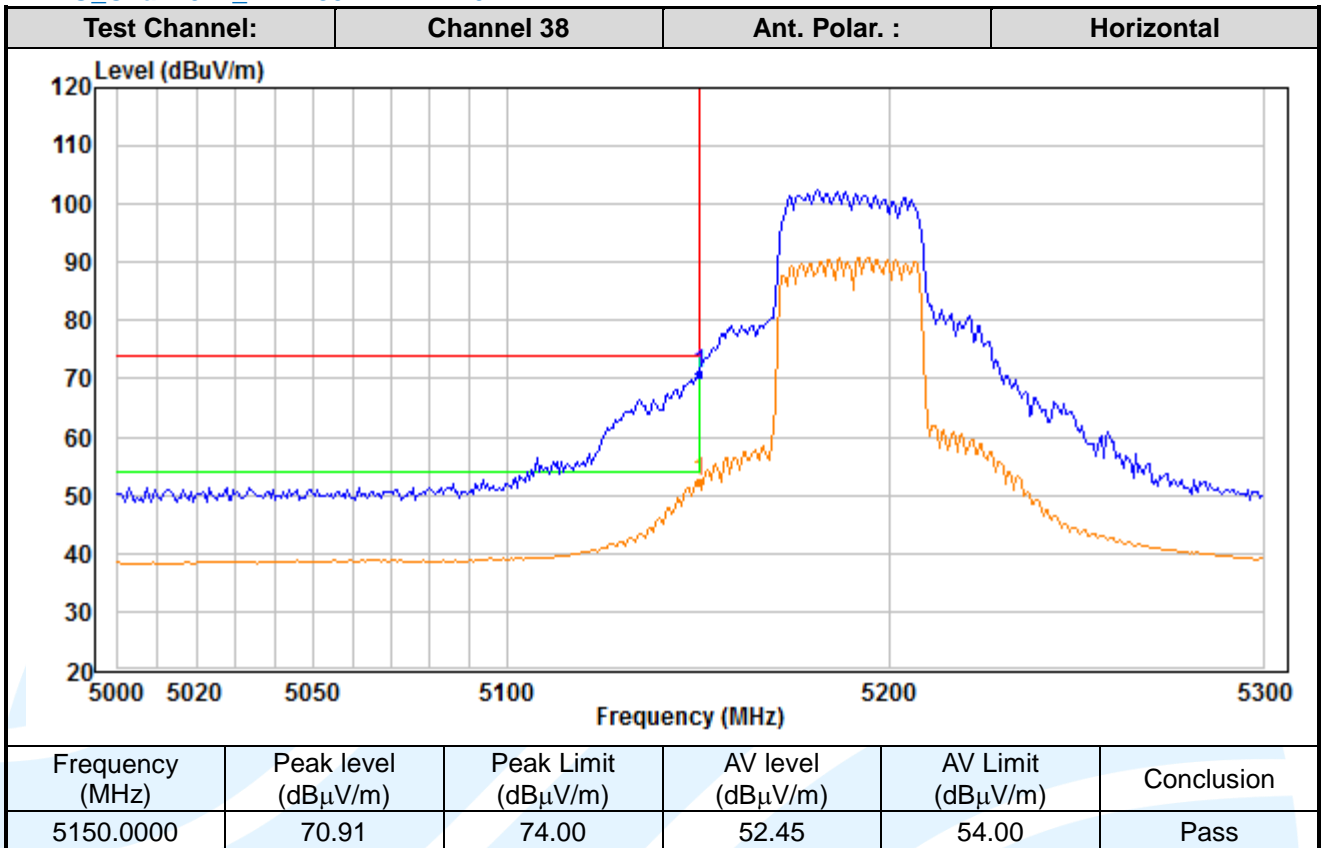
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MIMO\_Chain 0+1\_ IEEE 802.11n-HT40



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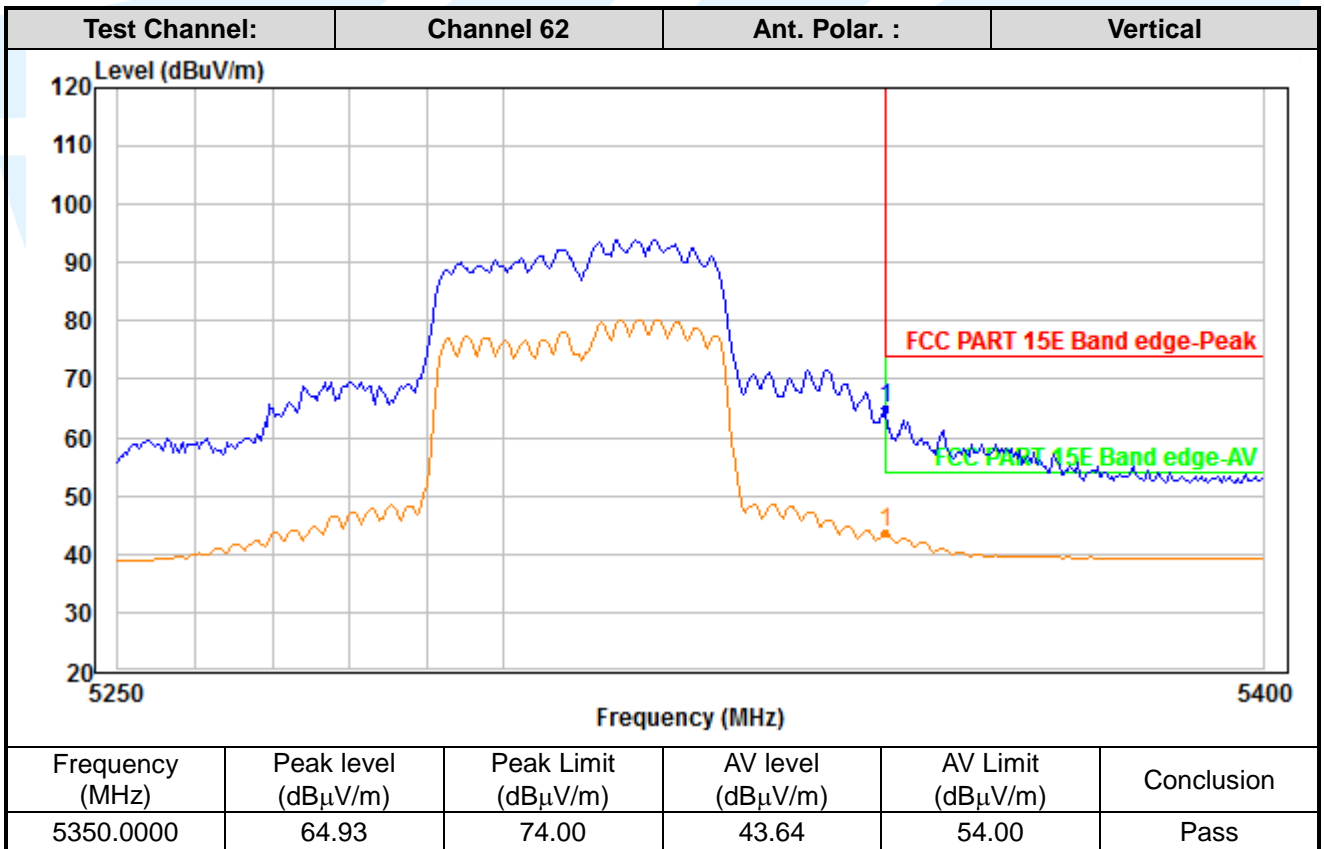
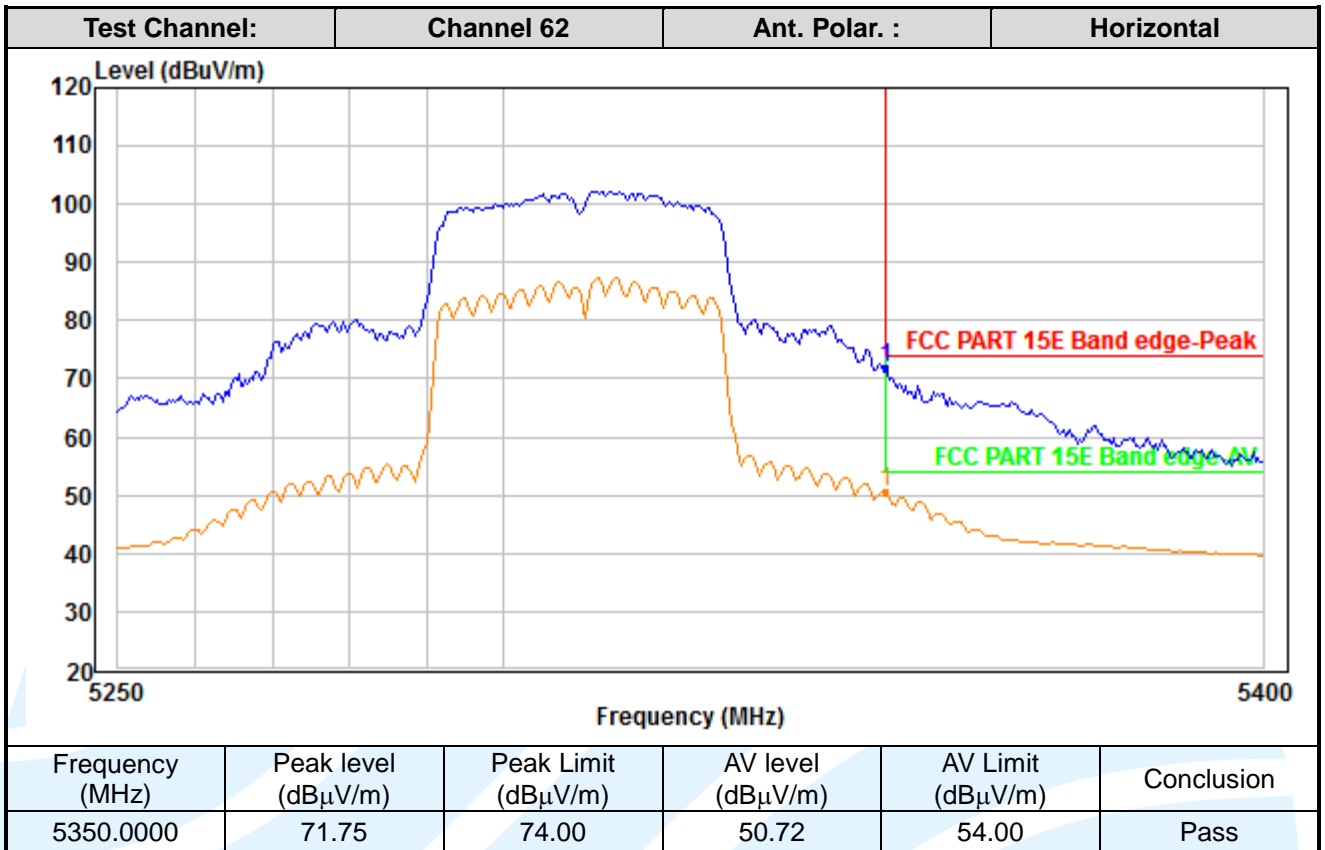
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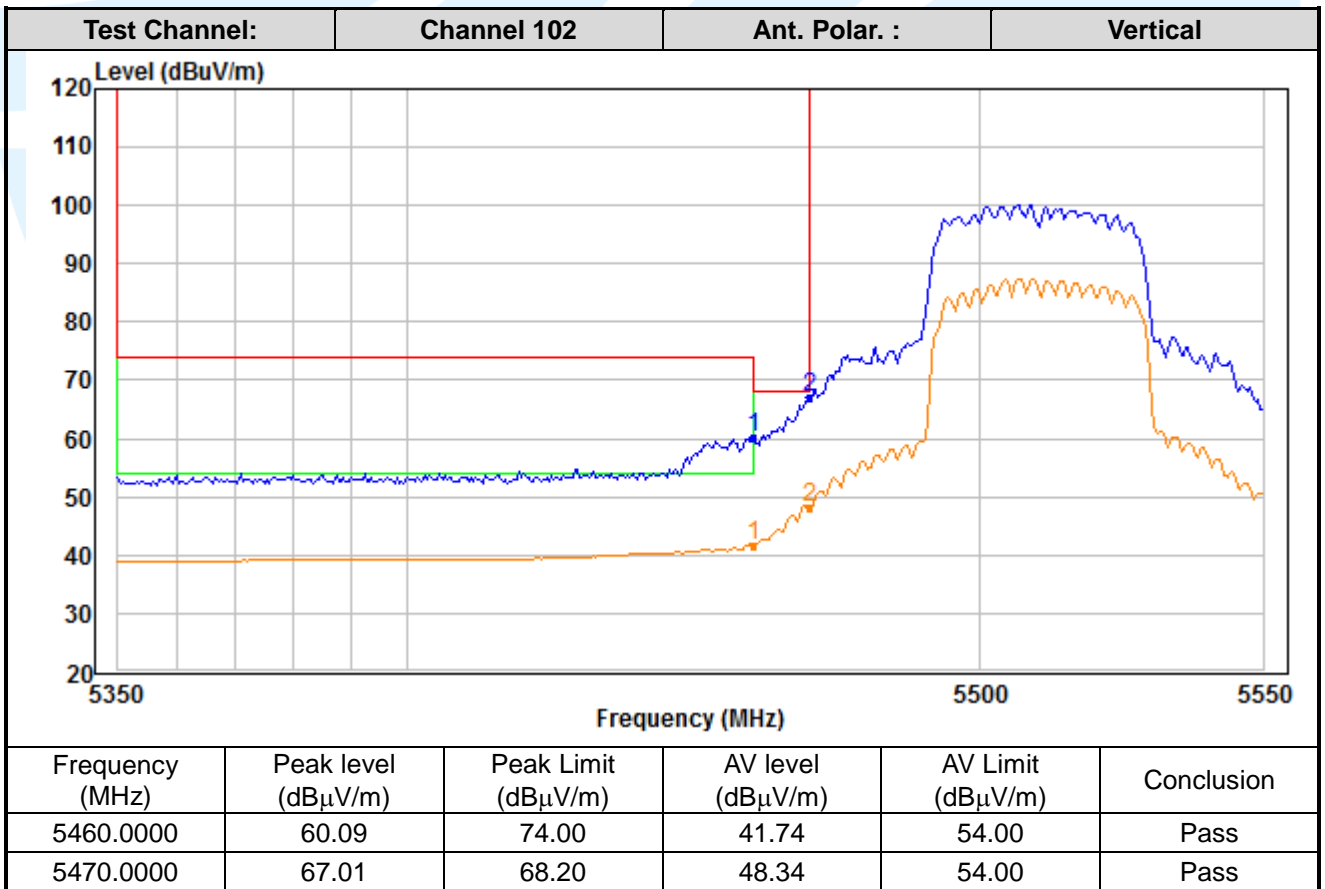
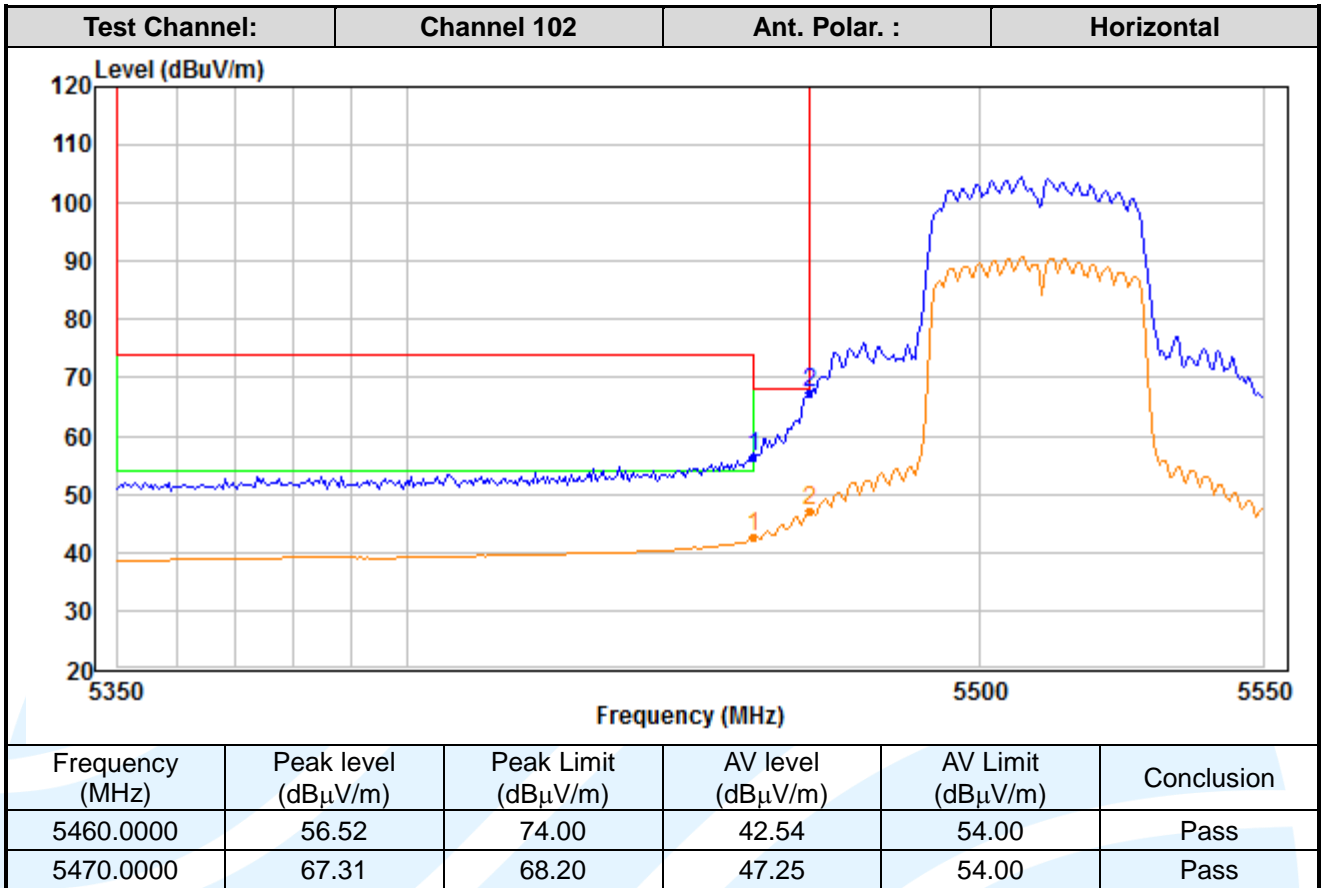
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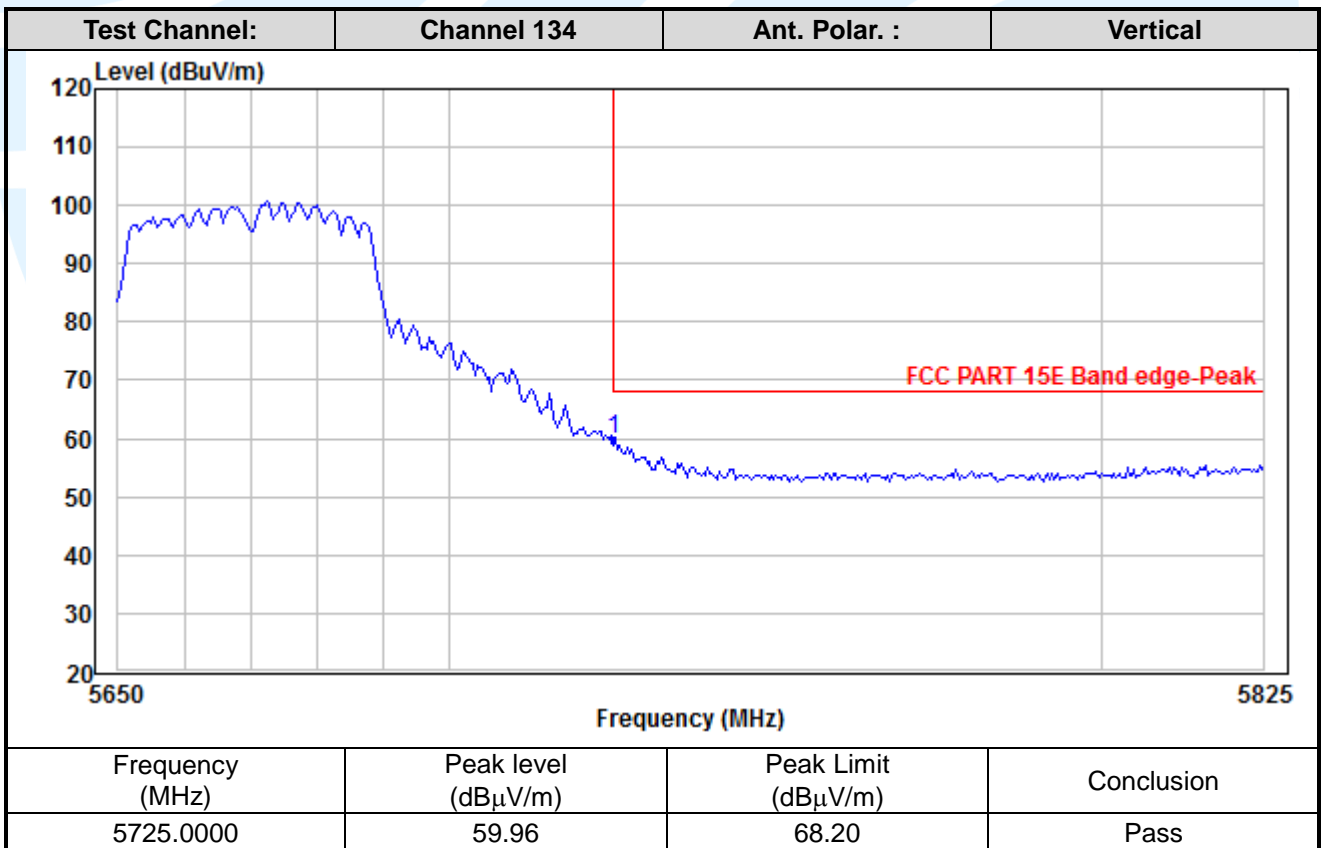
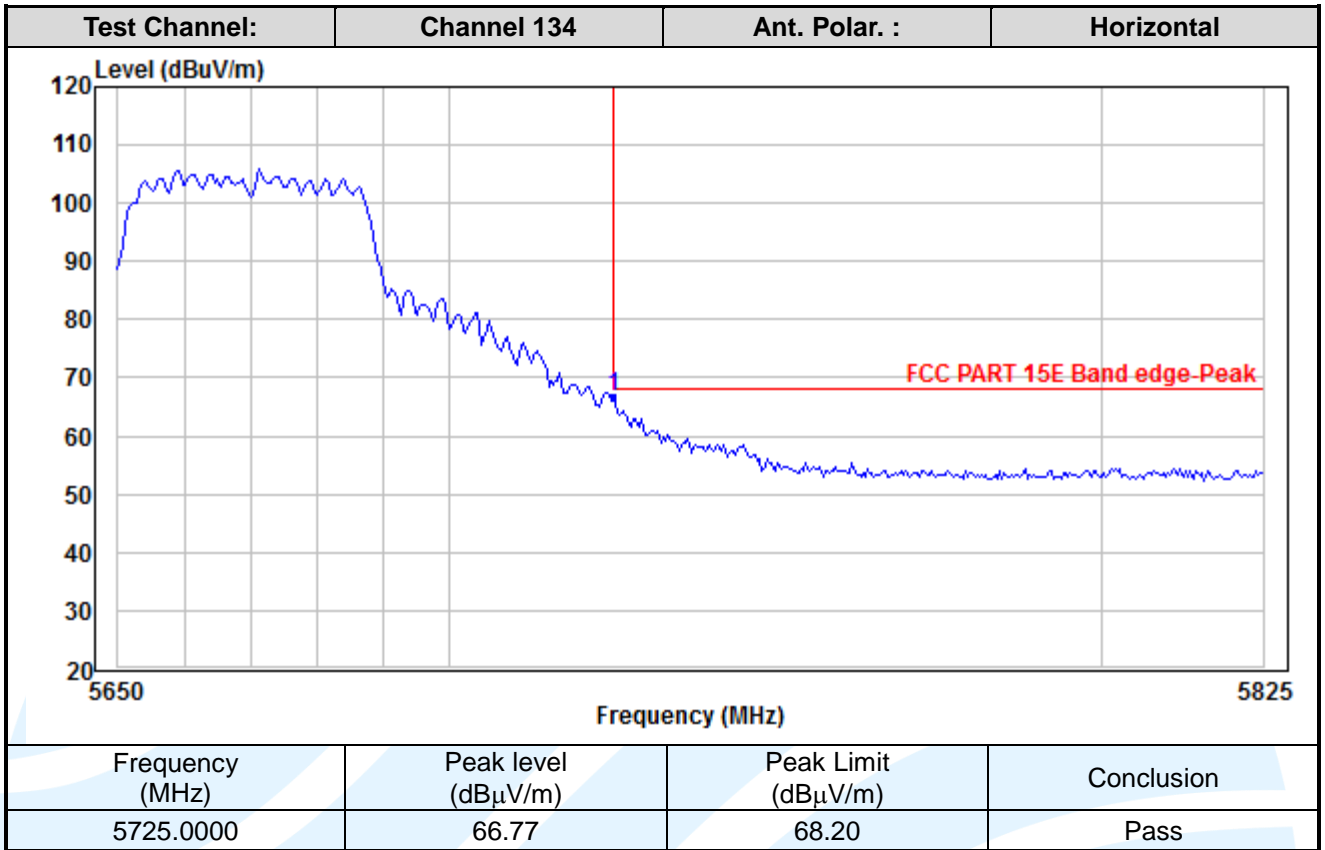
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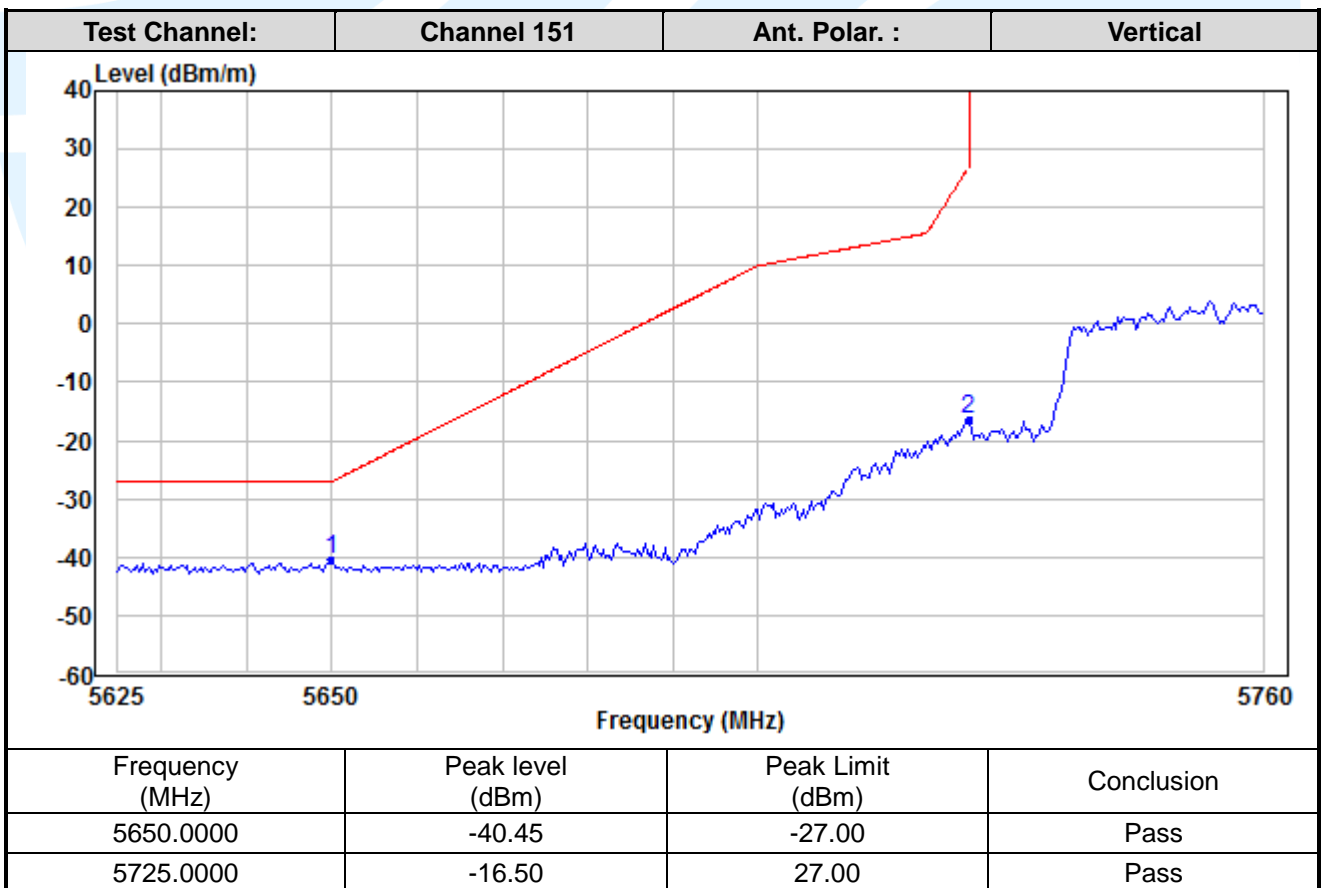
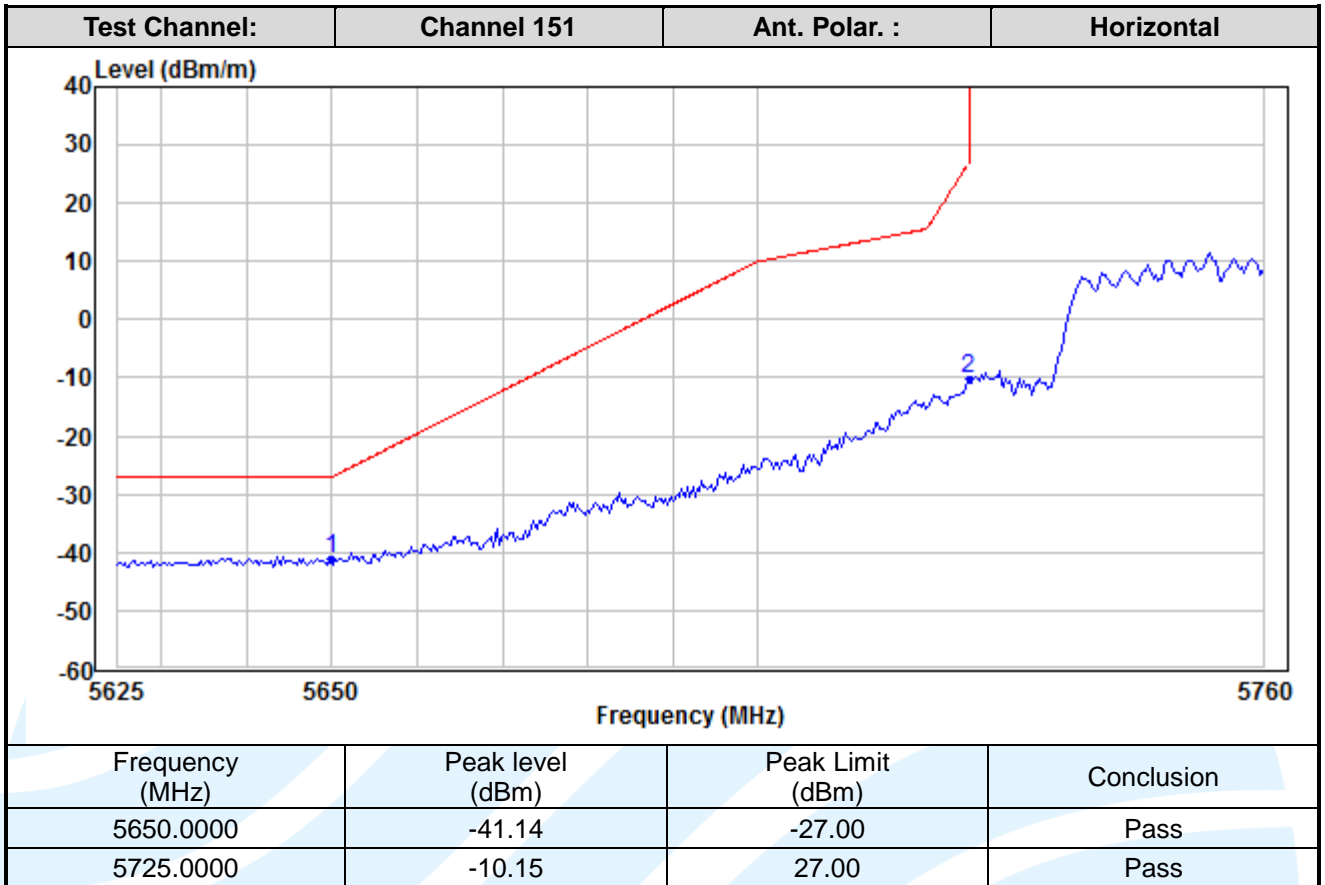
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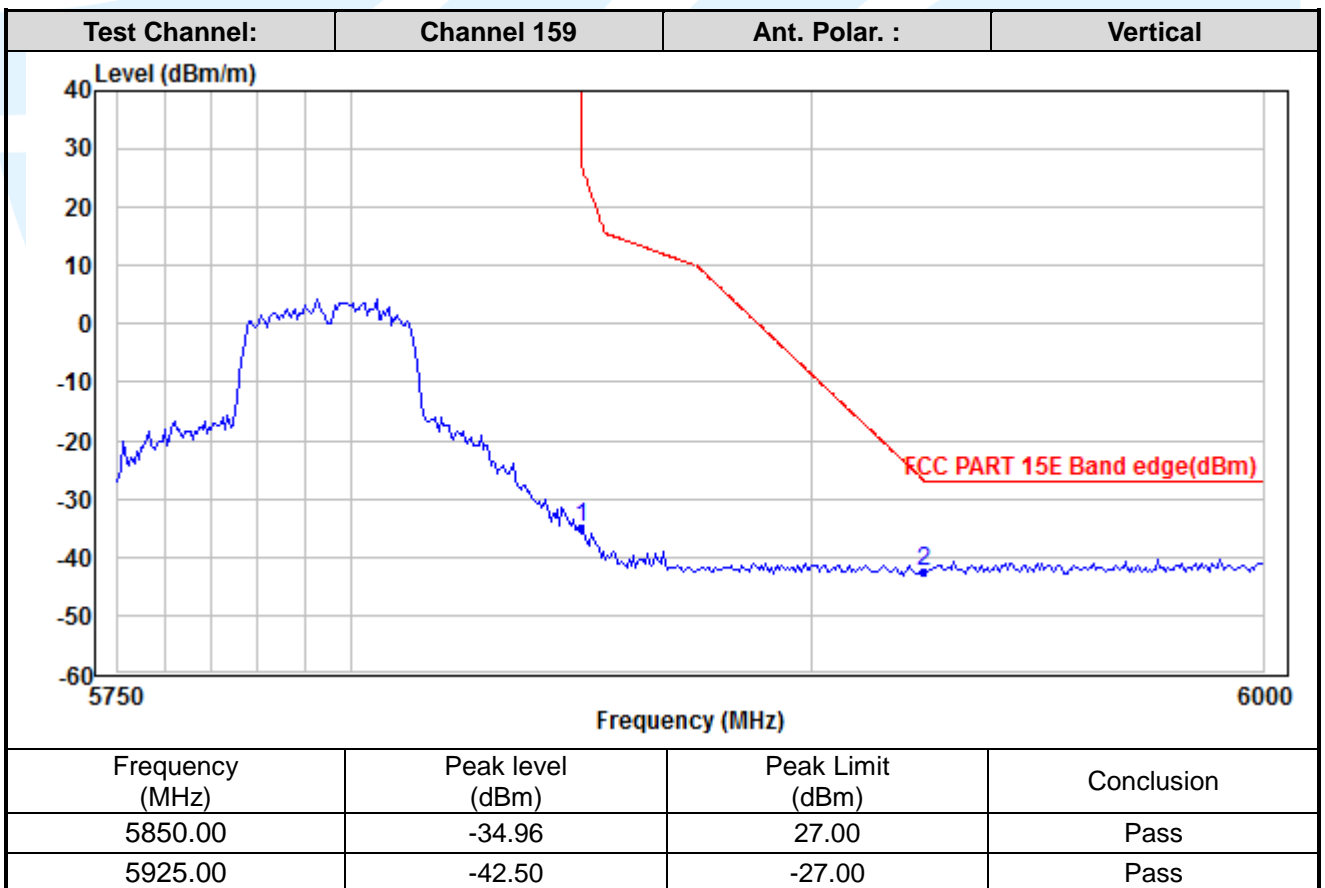
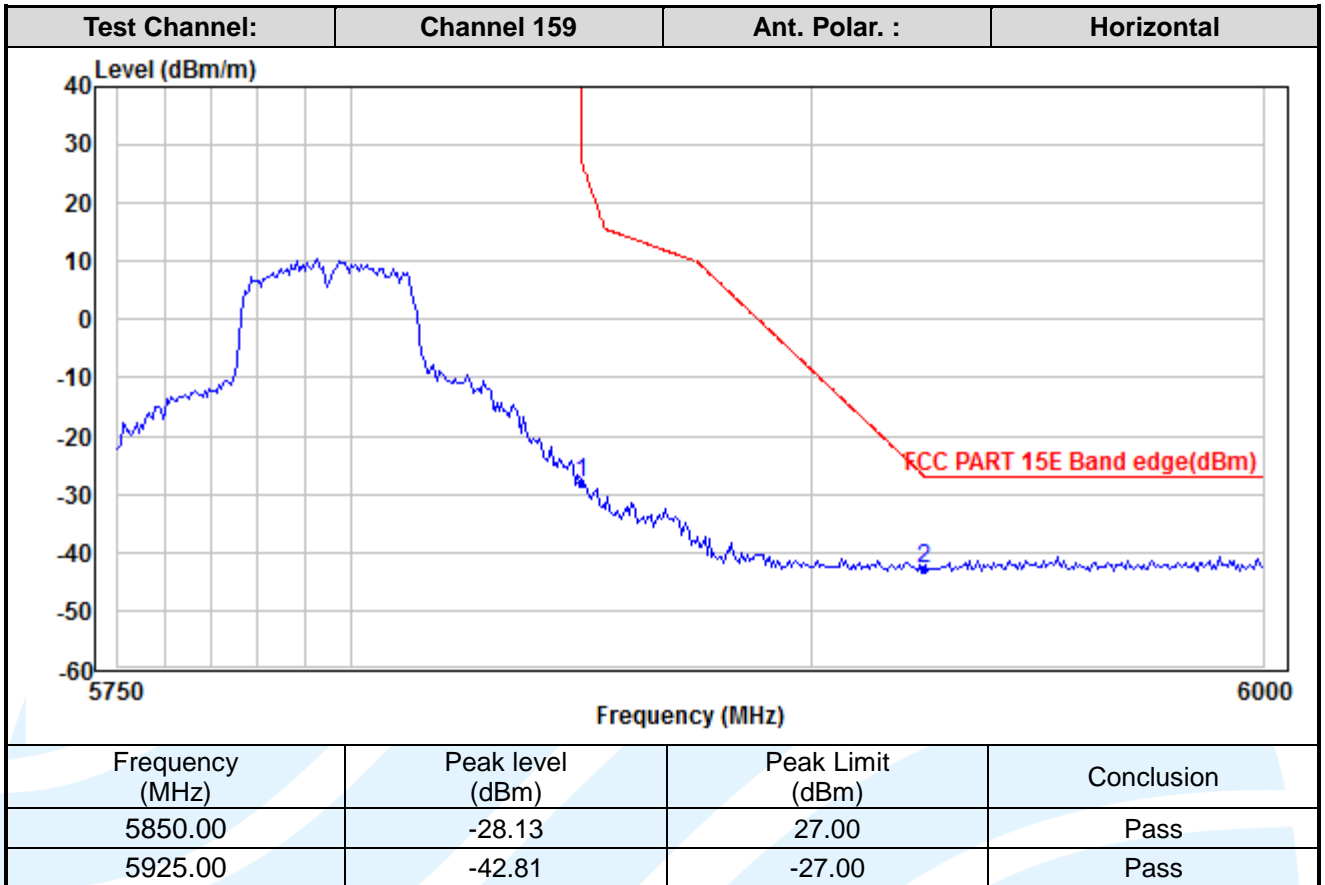
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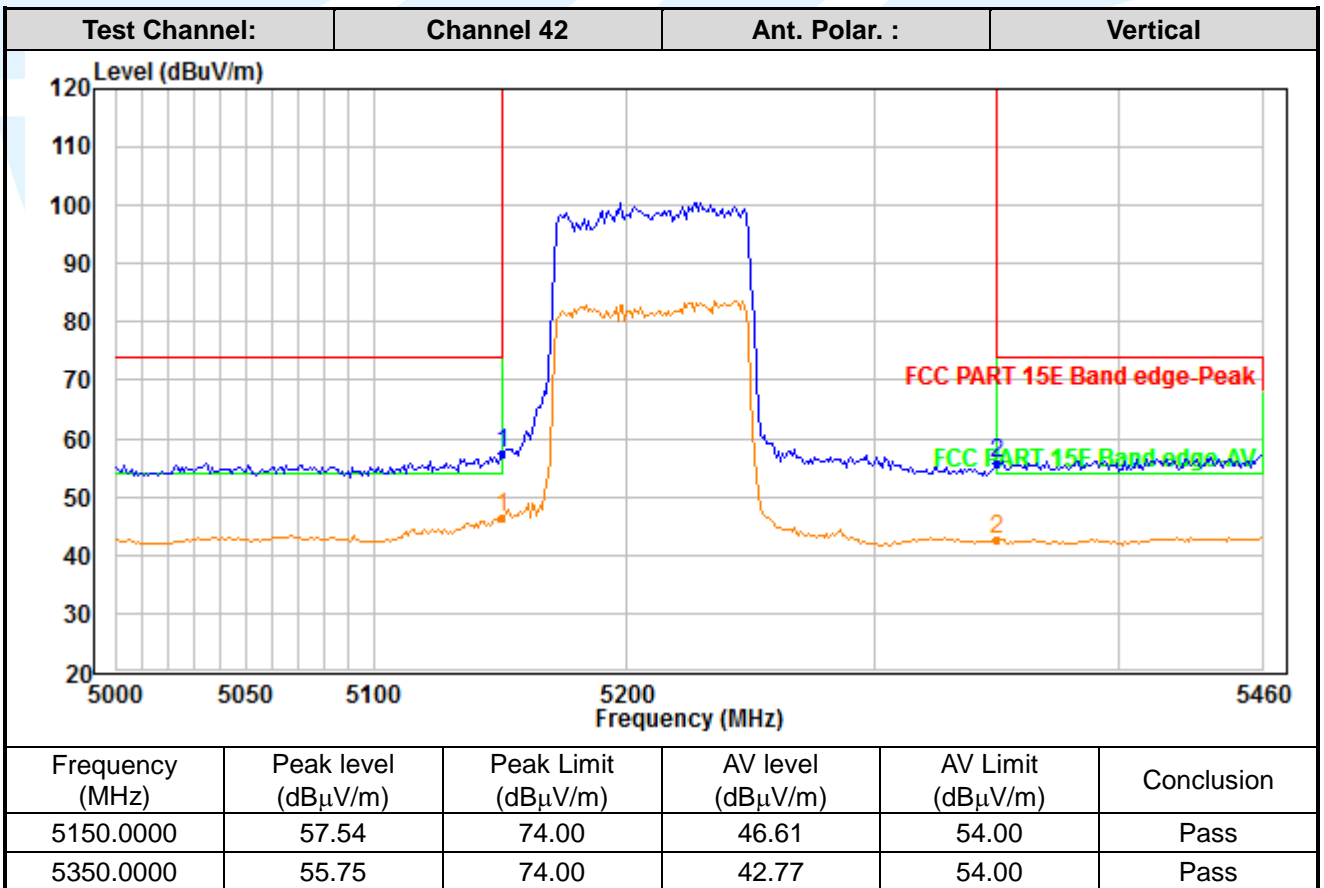
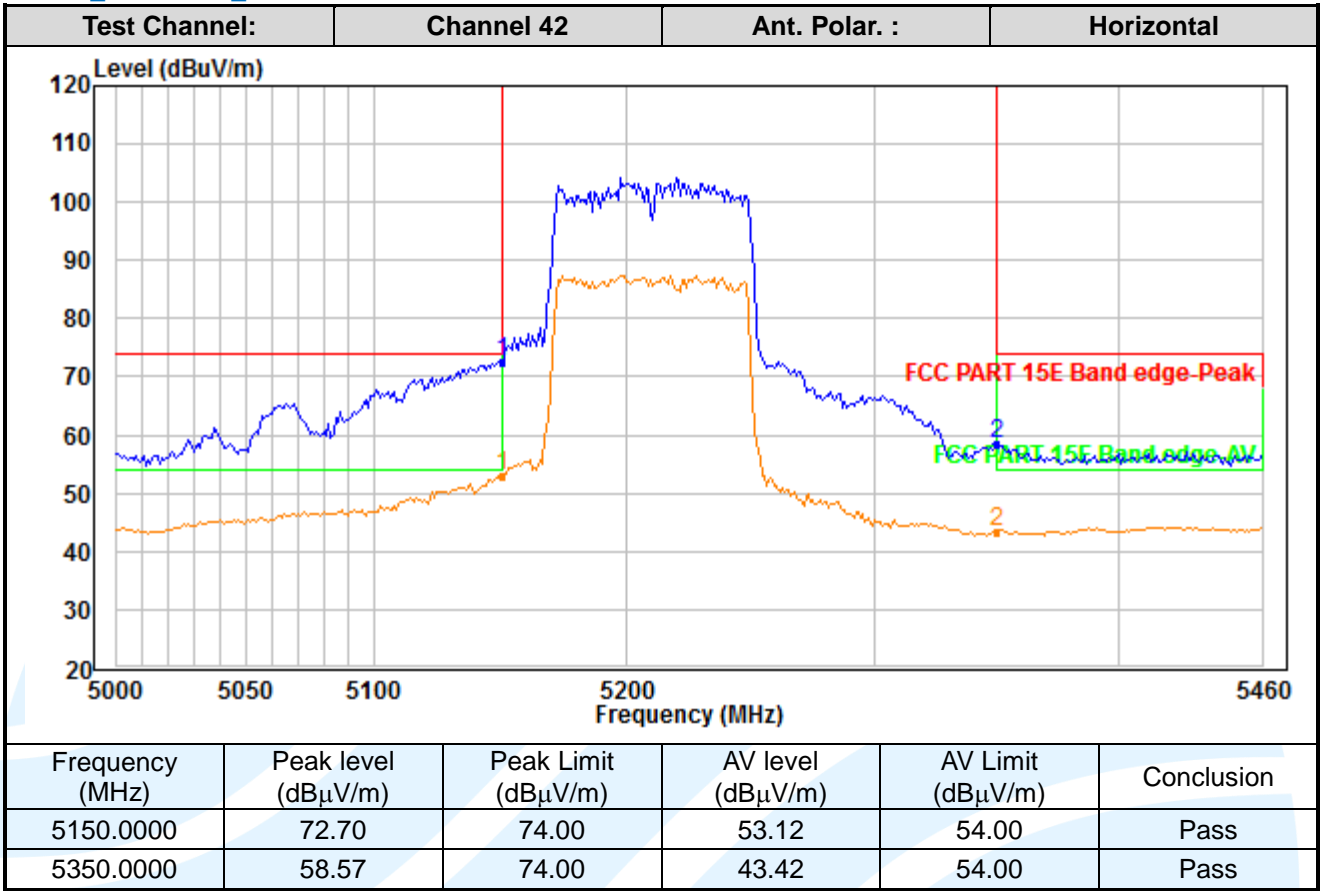
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MIMO\_Chain 0+1\_ IEEE 802.11ac-VHT80



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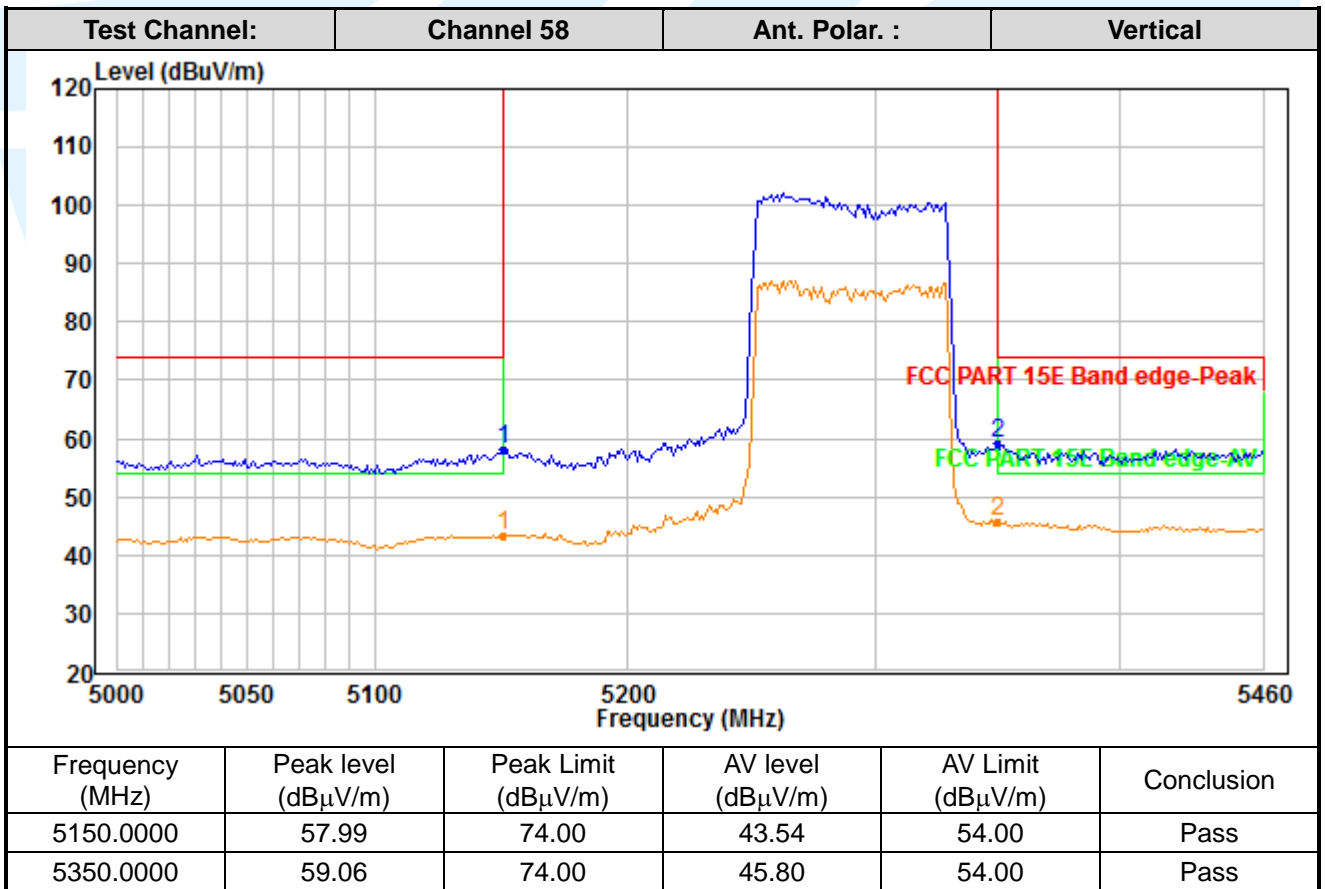
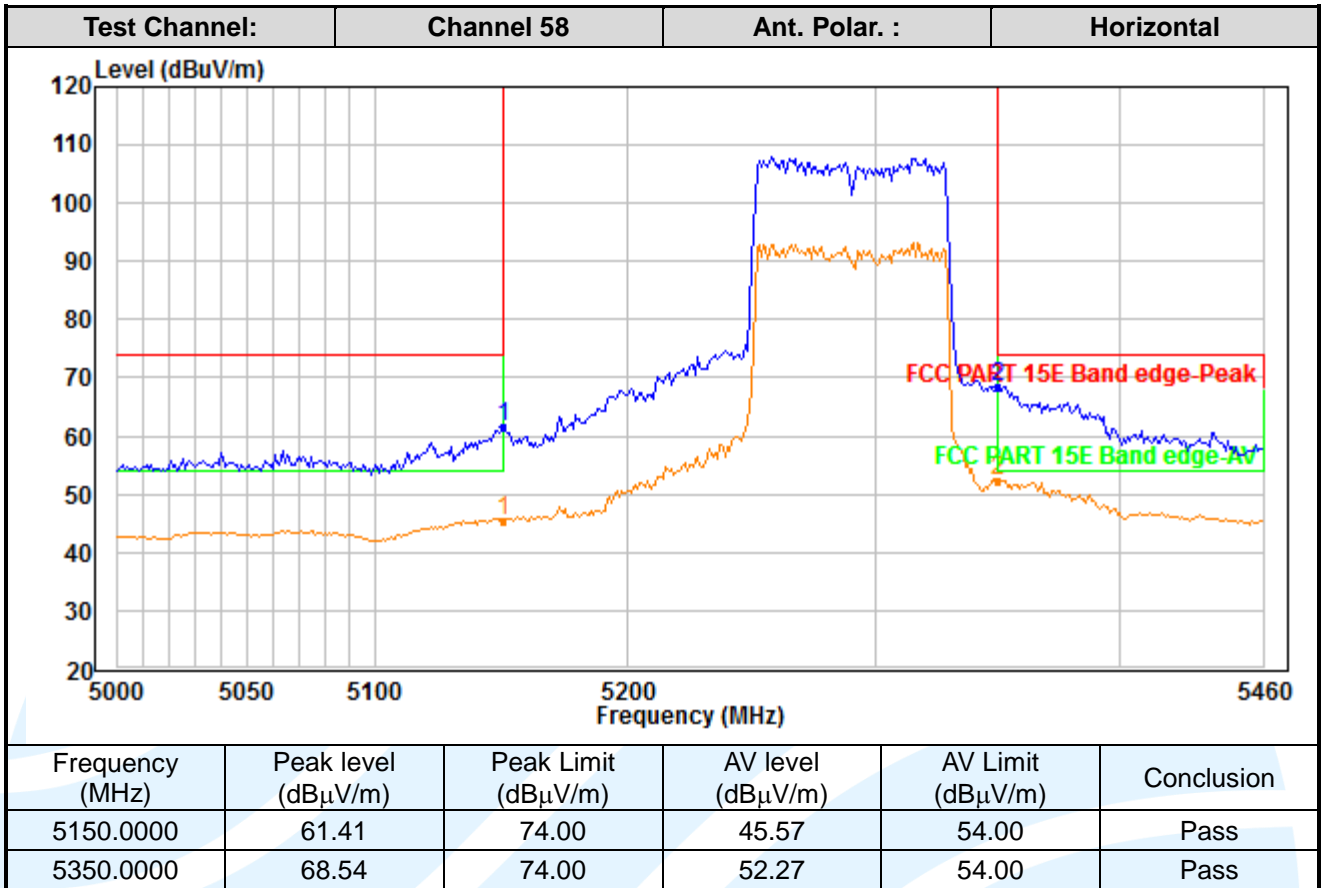
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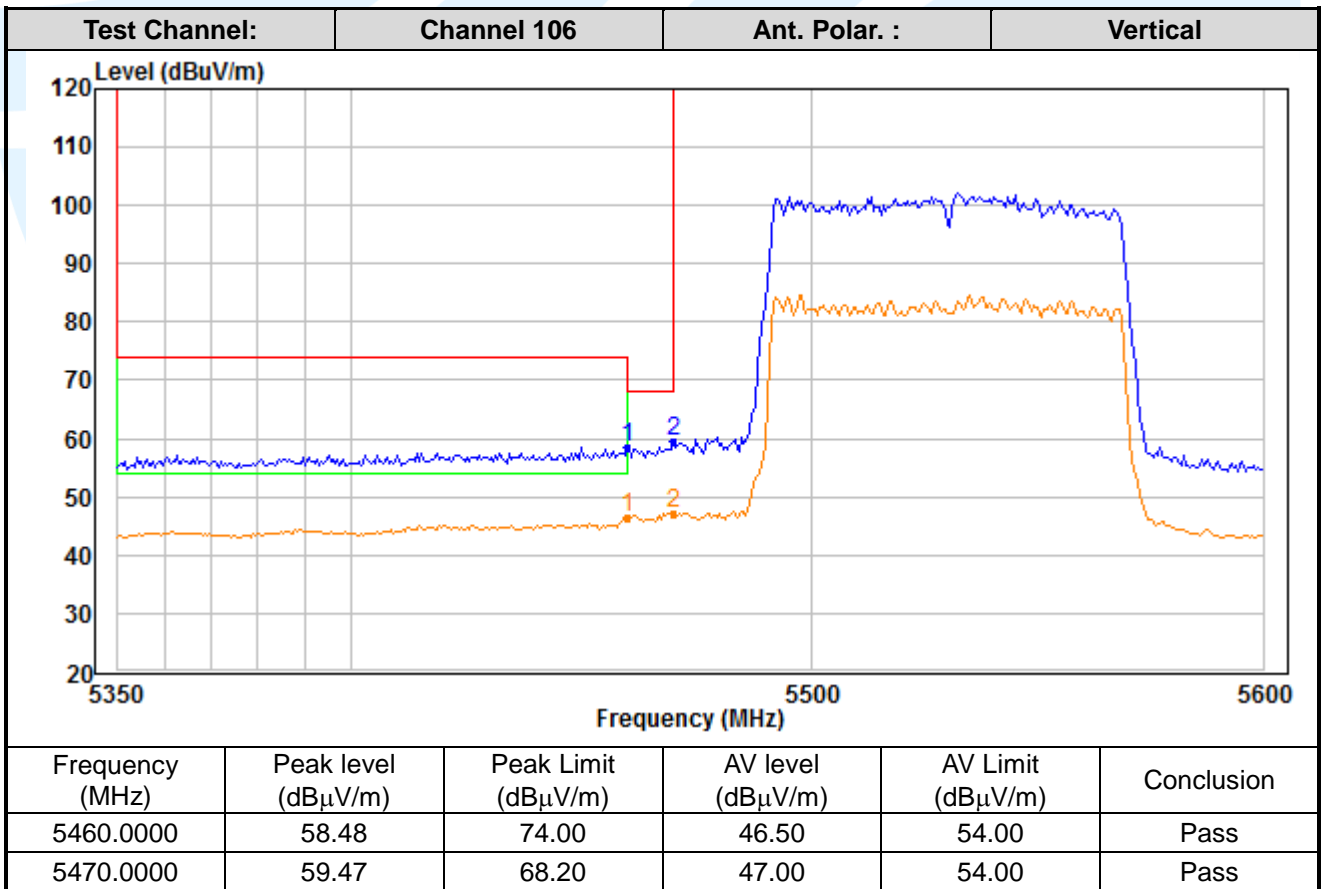
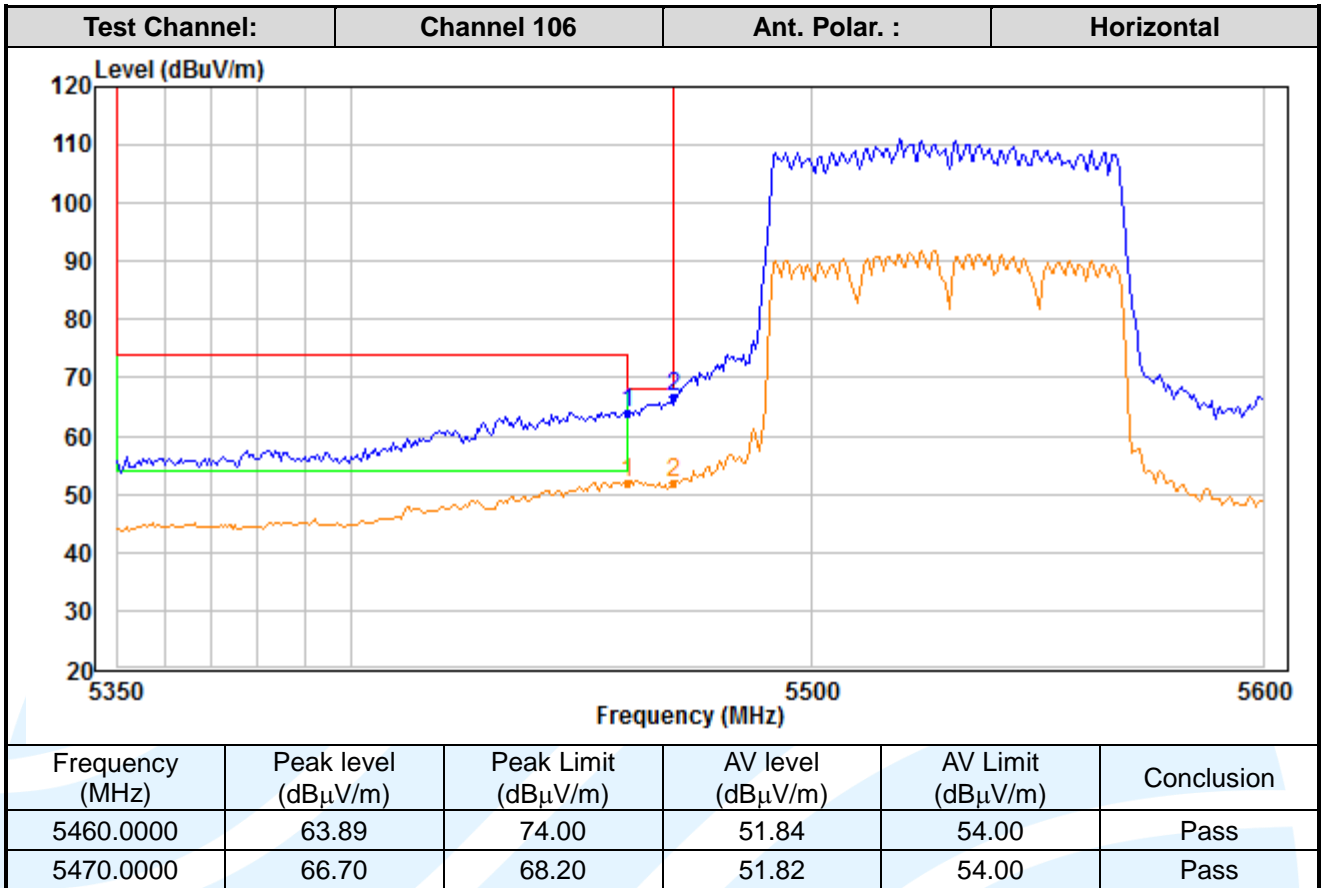
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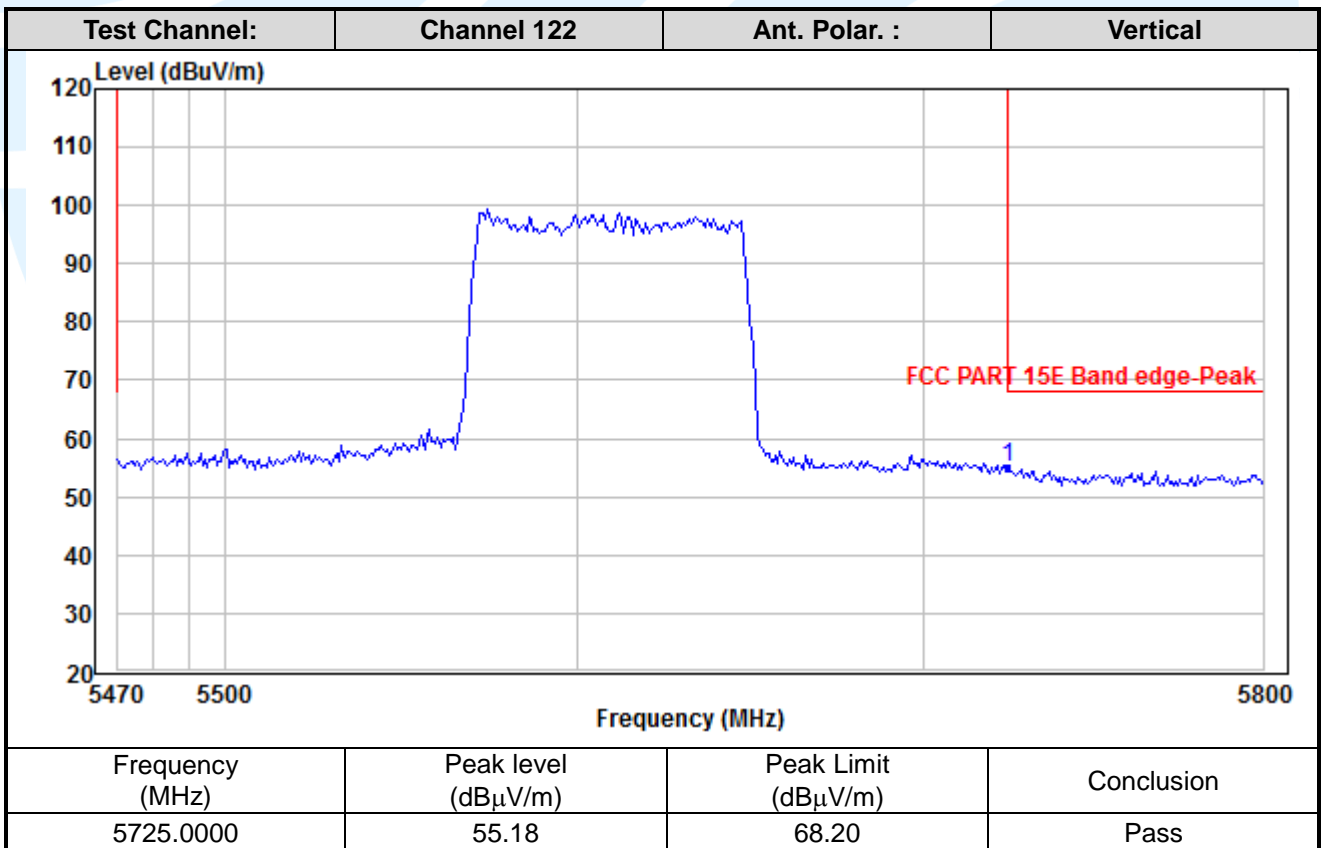
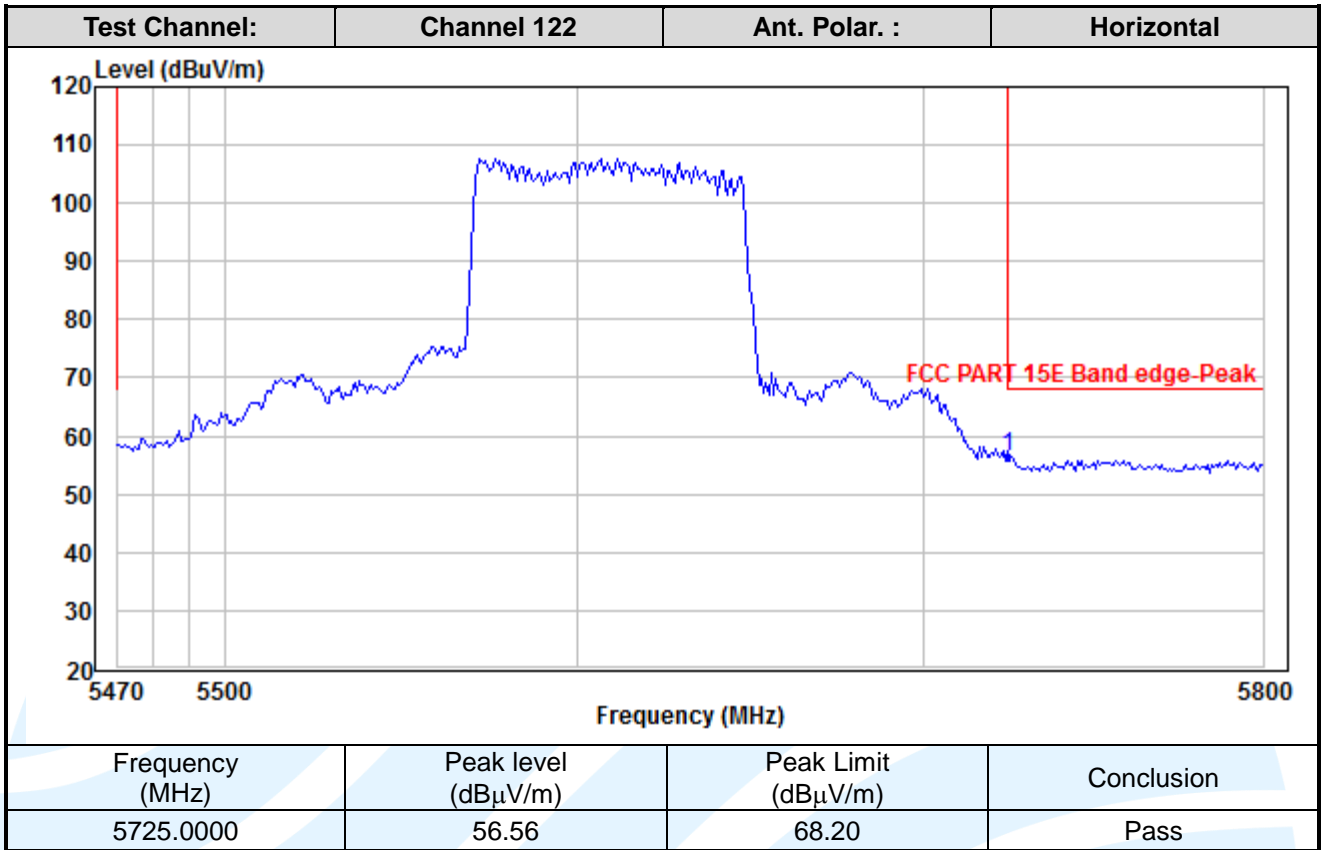
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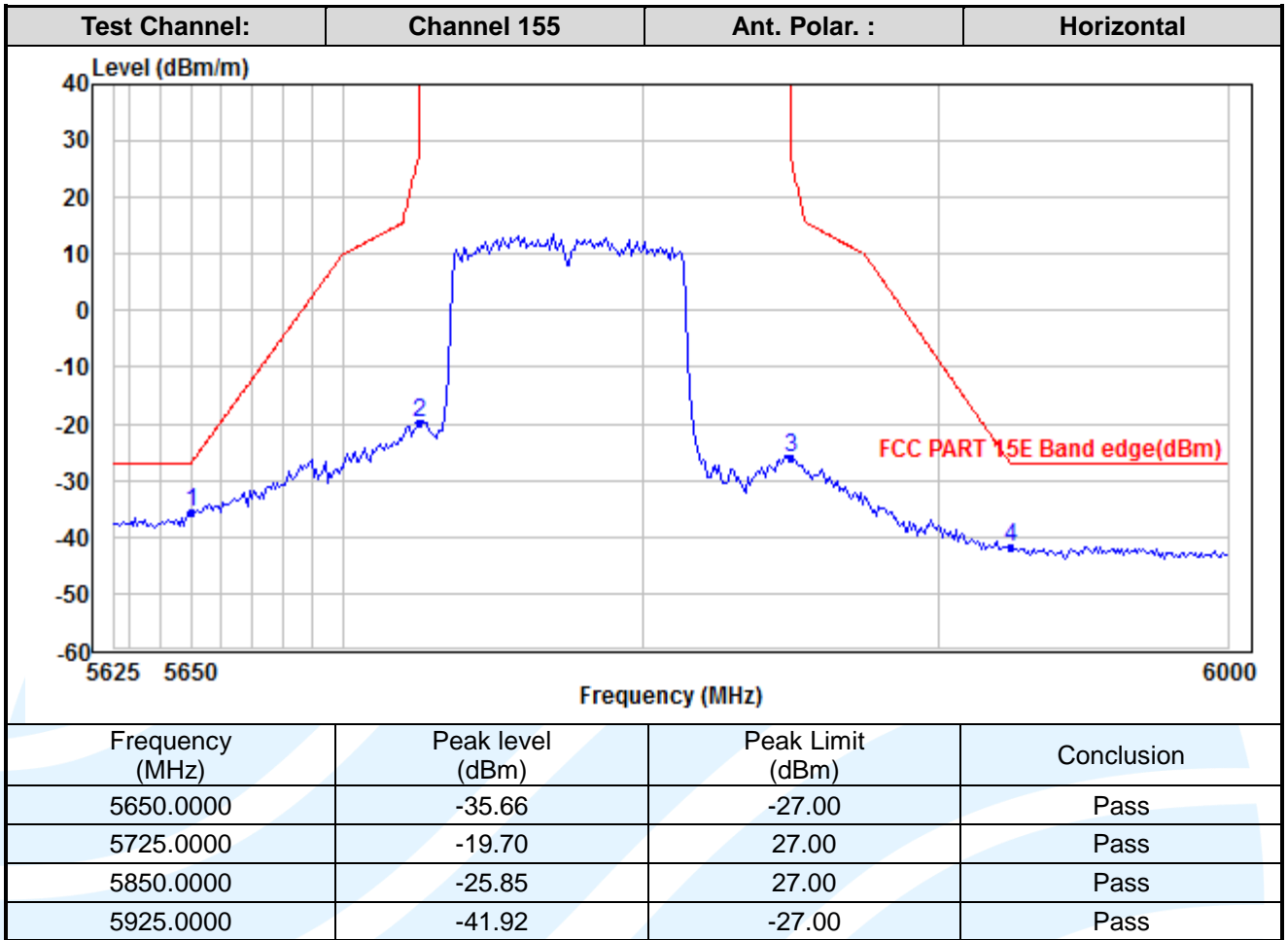
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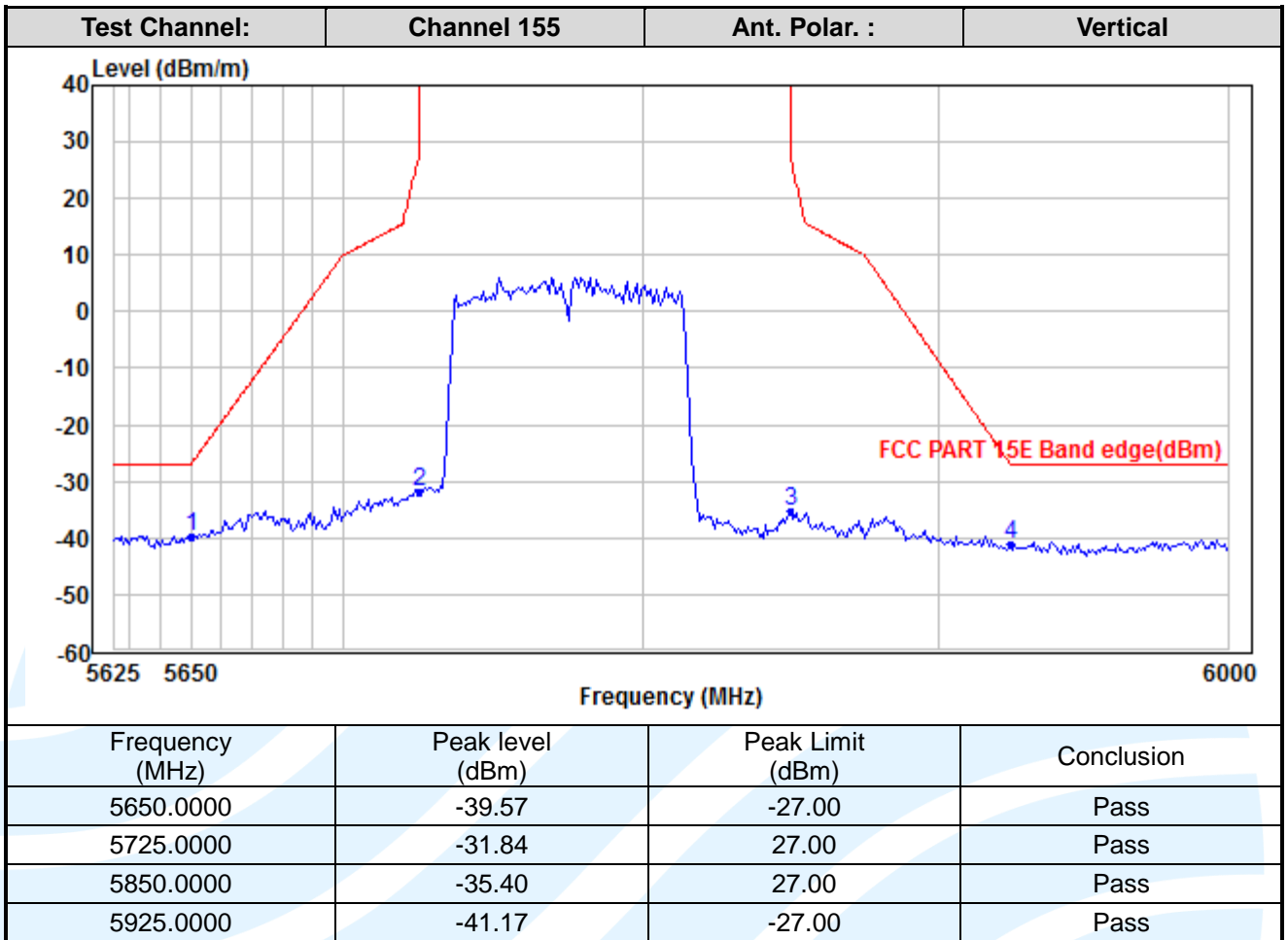
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### 5.8 DYNAMIC FREQUENCY SELECTION

**Test Requirement:** FCC 47 CFR Part 15 Subpart E Section 15.407 (h)

**Test Method:** KDB 905462 D03 Client Without DFS New Rules v01r02

**EUT Operating Mode:**

DFS Operational mode	Operating Frequency Range	
	5250 MHz to 5350 MHz	5470 MHz to 5725 MHz
Slave without radar Interference detection function	✈	✈

**Applicability:**

The following table from KDB905462 and the lists of the applicable requirements for the DFS testing.

**Applicability of DFS Requirements Prior to Use of a Channel:**

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	✈	Not required	Yes
DFS Detection Threshold	✈	Not required	Yes
Channel Availability Check Time	✈	Not required	Not required
U-NII Detection Bandwidth	✈	Not required	Yes

**Applicability of DFS requirements during normal operation:**

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
<b>Note:</b> Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

**DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection:**

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64dBm

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.

**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**Note 3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

**DFS Radar Signal Parameter Values:**

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1.)
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2.)
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3.)

**Note 1:** Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

**DFS Radar Signal Parameter:**

Radar Type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time

**Table 1-Short Pulse Radar Test Waveforms**

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1.	See Note 1.
1	1	Test A Test B	Roundup $\left\{ \left( \frac{1}{360} \right) \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

**Note 1:** Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a  
 Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A  
 A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.  
 If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.  
 The aggregate is the average of the percentage of successful detections of short pulse radar types

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Table 2-Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 3-Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

**In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period**

**Limit of In-Service Monitoring:**

Reference to DFS Radar Signal Parameter Values.

**Test Procedures:**

- One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
- In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- The TCP protocol unicast data stream was generated by the iperf software command line with at least 17% activity ratio over any 100ms period.
- Timing plots are reported with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time).
- At time T<sub>0</sub> the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Closing Transmission Time if radar detection occurs.
- When operating as a Master Device, monitor the EUT for more than 30 minutes following instant T<sub>2</sub> to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

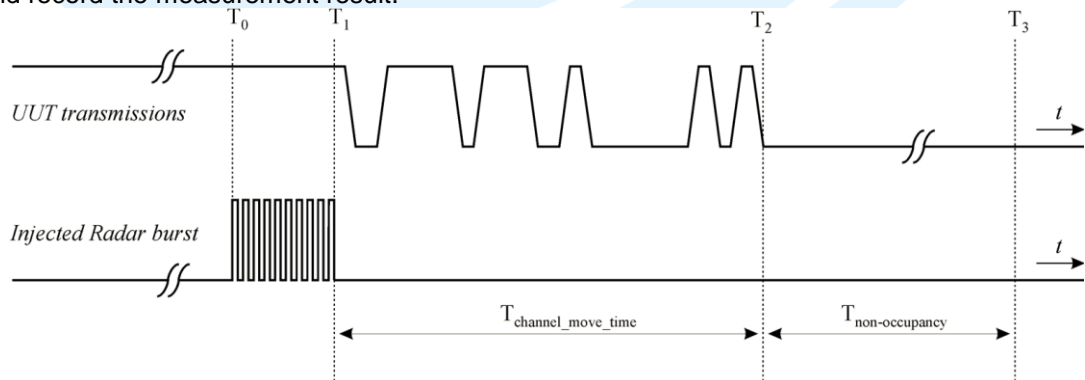
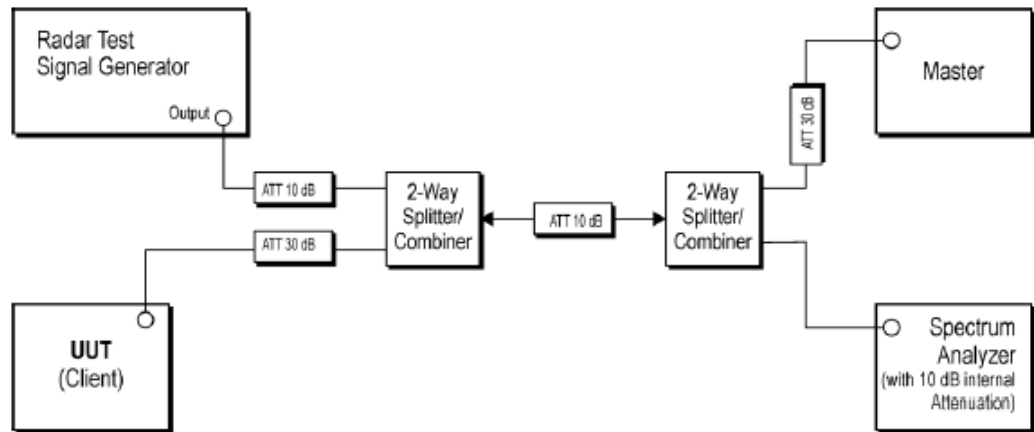


Figure 17: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

**Conducted test setup**



**Setup for Client with injection at the Master**

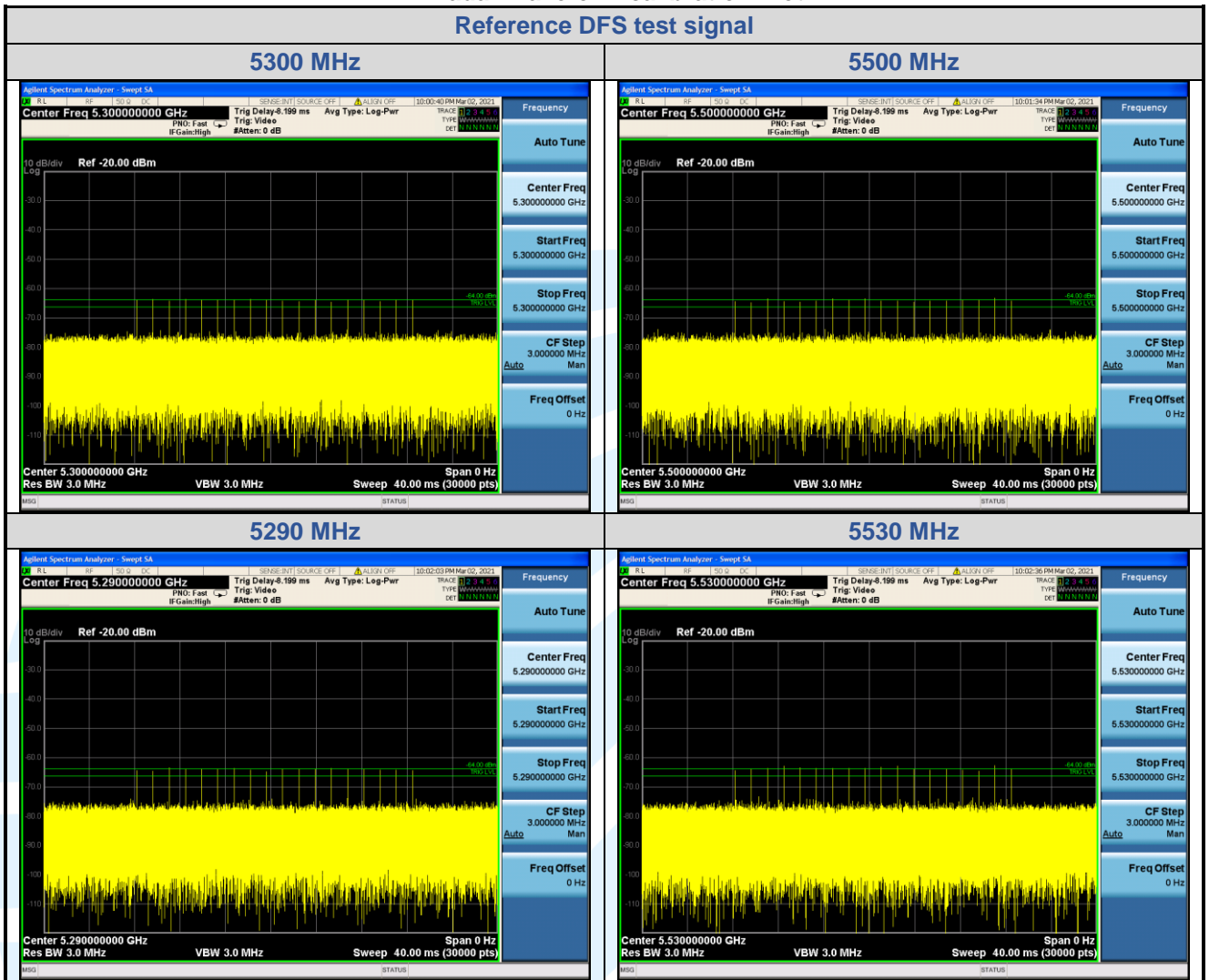
**Equipment Used:** Refer to section 3 for details.

**Test Result:** Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

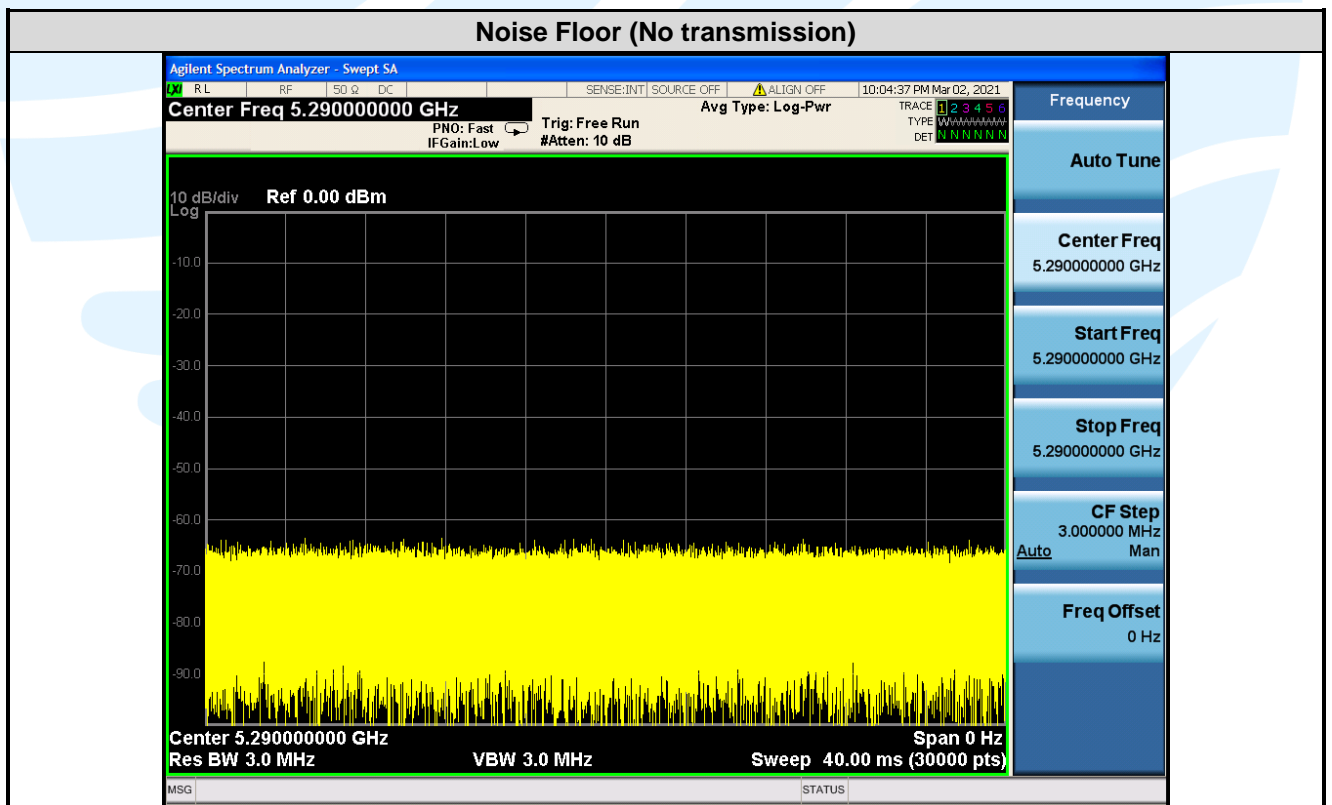
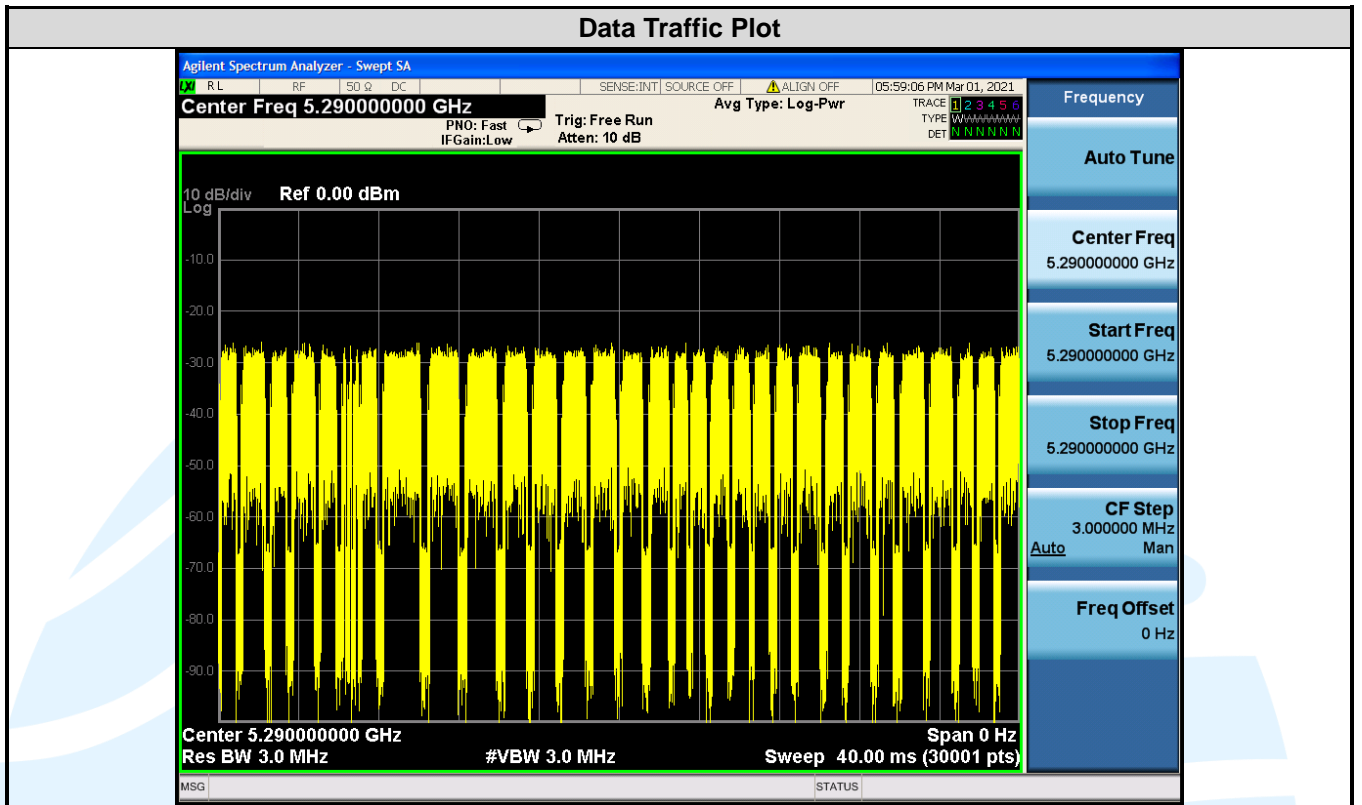
**The measurement data as follows:**

BW / Channel	Test Item	Test Result	Limit	Pass/Fail
20 MHz / 5300 MHz	Channel Move Time	0.7429 s	< 10s	Pass
	Channel Closing Transmission Time	4.0 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
20 MHz / 5500 MHz	Channel Move Time	0.7741 s	< 10s	Pass
	Channel Closing Transmission Time	8.8 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
80 MHz / 5290 MHz	Channel Move Time	0.7171 s	< 10s	Pass
	Channel Closing Transmission Time	3.6 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
80 MHz / 5530 MHz	Channel Move Time	0.7974 s	< 10s	Pass
	Channel Closing Transmission Time	5.6 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass

Radars Waveform calibration Plot  
Reference DFS test signal







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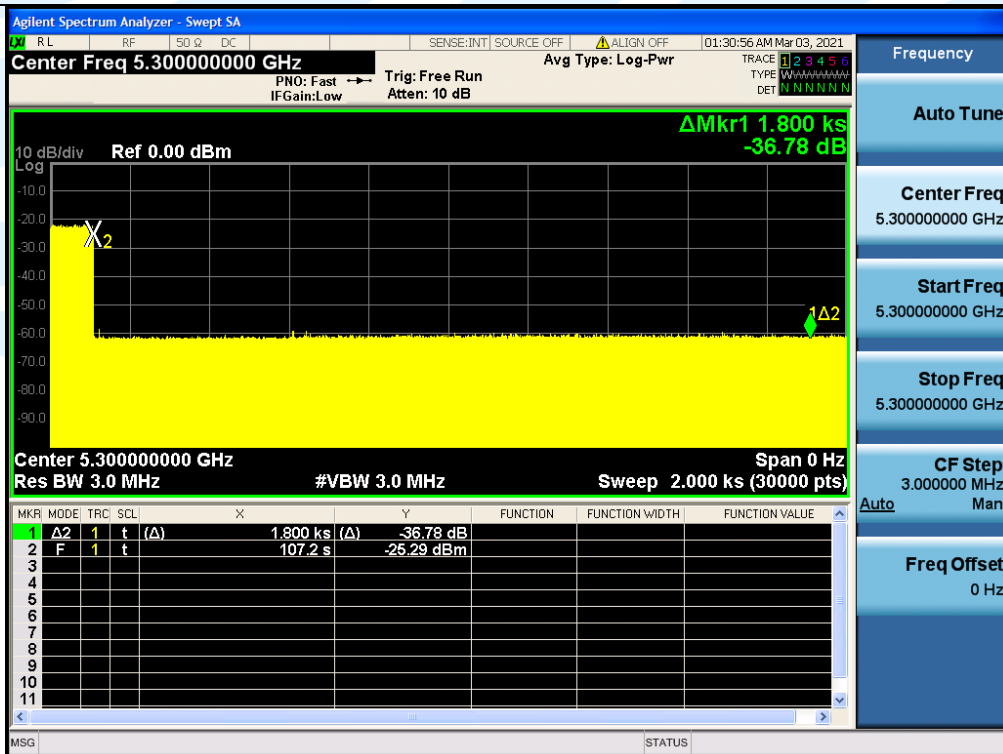
Channel Move Time & Channel Closing Transmission Time  
802.11a\_5300 MHz



Note:

- 1) Mark1 Time: 320.1 ms, Mark2 Time: 10320.1 ms, Ontime Points: 10
- 2) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 10 x 0.4 = 4.0ms
- 3) CMT = 1.063 s - 0.3201 s = 0.7429s

Non-Occupancy Period\_802.11a\_CH60\_5300 MHz



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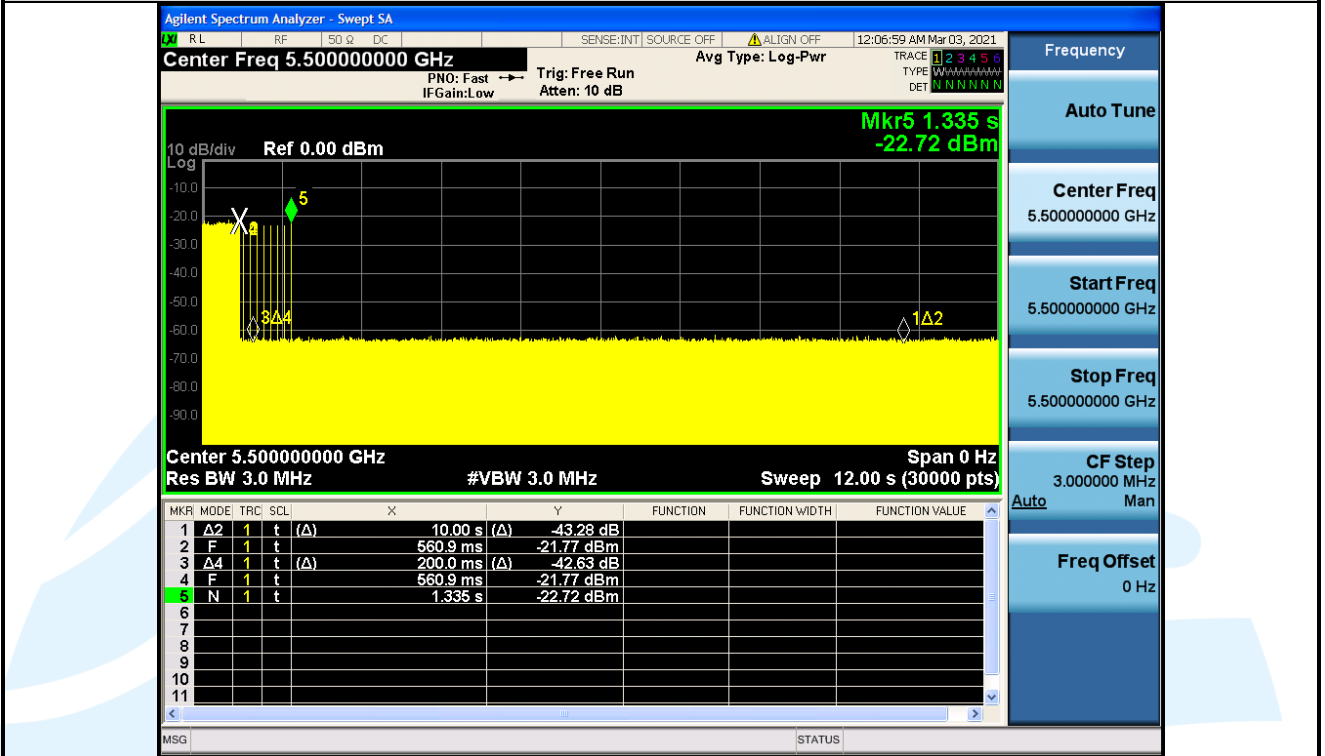
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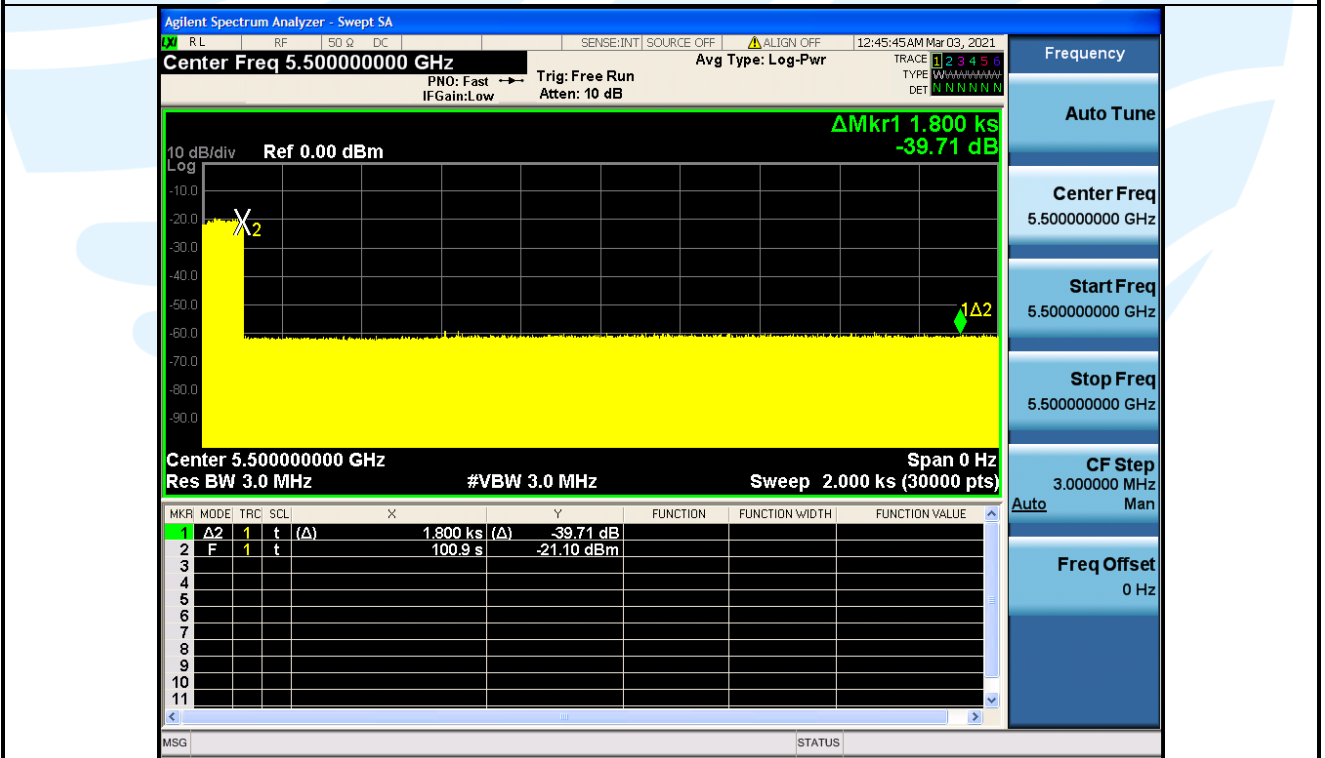
Channel Move Time & Channel Closing Transmission Time  
802.11a\_5500 MHz



Note:

- 4) Mark1 Time: 560.9 ms, Mark2 Time: 10560.9 ms, Ontime Points: 22
- 5) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 22 x 0.4 = 8.8ms
- 6) CMT = 1.335 s - 0.5609 s = 0.7741s

Non-Occupancy Period\_802.11a\_CH100\_5500 MHz





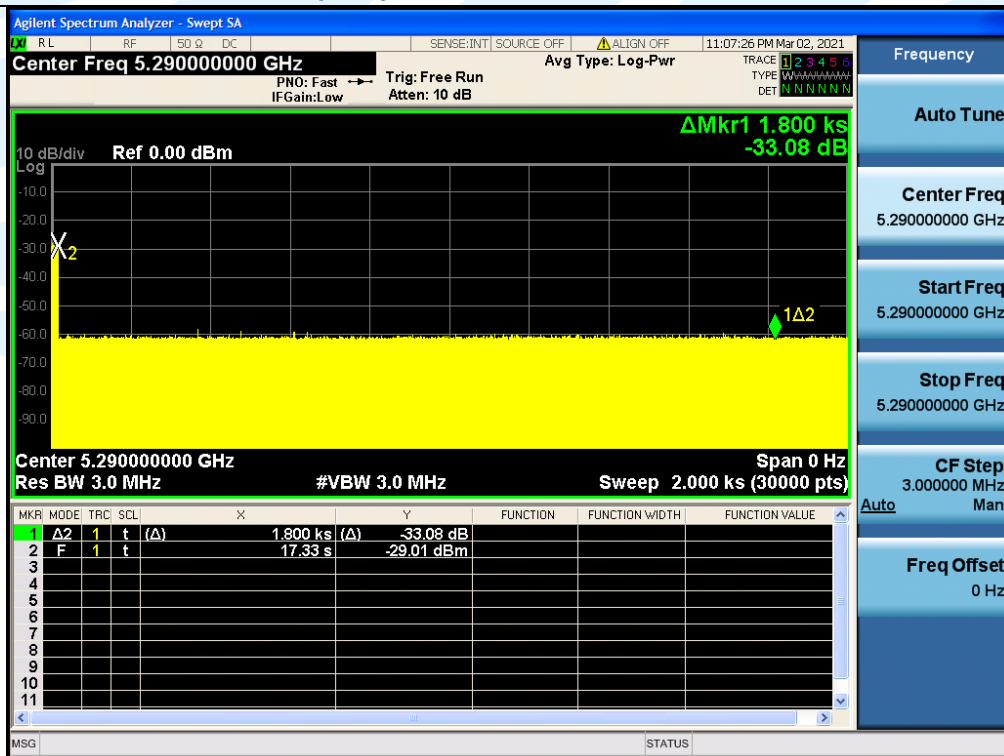
Channel Move Time & Channel Closing Transmission Time  
802.11ac\_5290 MHz



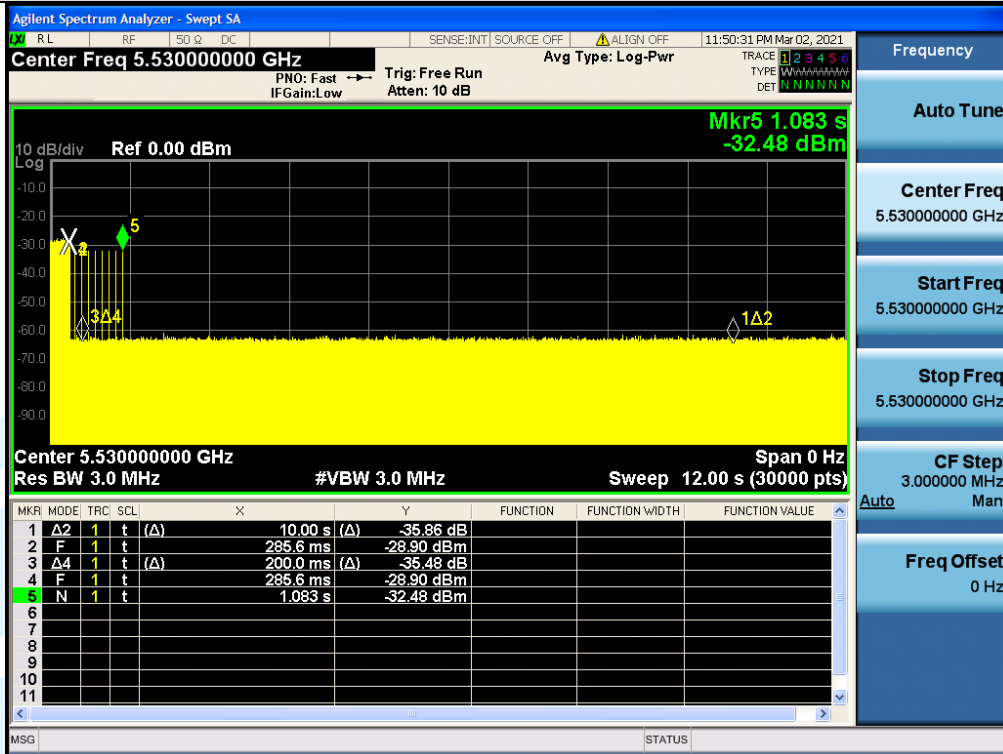
Note:

- 7) Mark1 Time: 692.9 ms, Mark2 Time: 10692.9 ms, Ontime Points: 9
- 8) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 9 x 0.4 = 3.6ms
- 9) CMT = 1.410 s - 0.6929 s = 0.7171s

Non-Occupancy Period\_802.11ac\_CH58\_5290 MHz



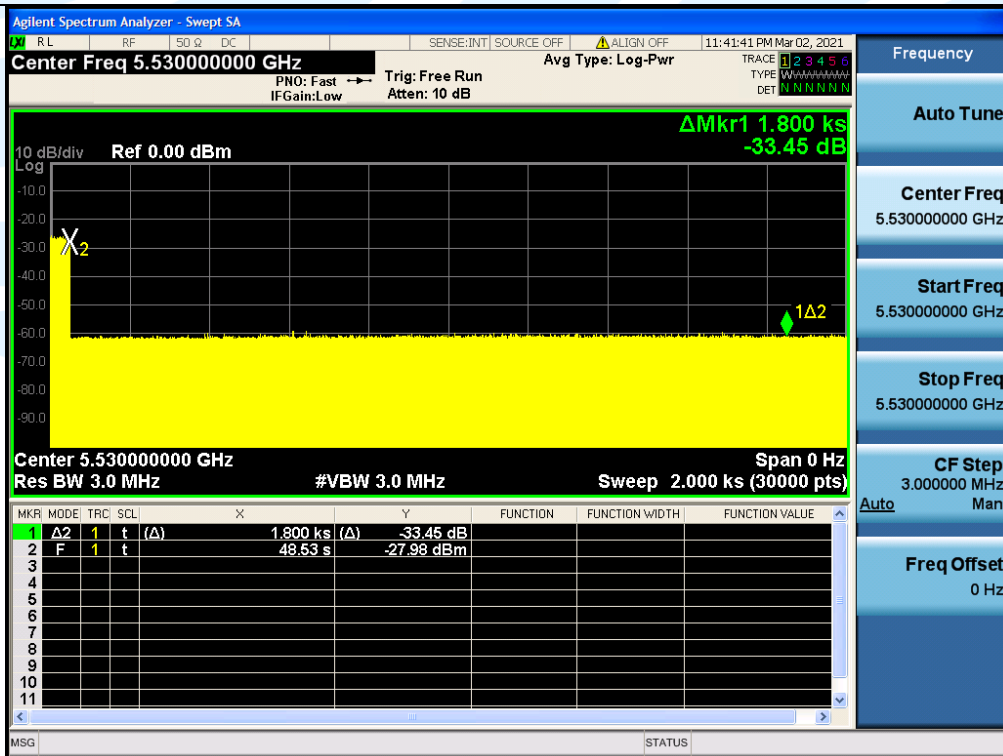
Channel Move Time & Channel Closing Transmission Time  
802.11ac\_5530 MHz



Note:

- 10) Mark1 Time: 285.6 ms, Mark2 Time: 10285.6 ms, Ontime Points: 14
- 11) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 14 x 0.4 = 5.6ms
- 12) CMT = 1.083s - 0.2856 s = 0.7974s

Non-Occupancy Period\_802.11ac\_CH106\_5530 MHz



### 5.9 AC POWER LINE CONDUCTED EMISSION

**Test Requirement:** FCC 47 CFR Part 15 Subpart C Section 15.207

**Test Method:** ANSI C63.10-2013 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 4.4.2 for details.

**Test Procedures:**

Test frequency range :150KHz-30MHz

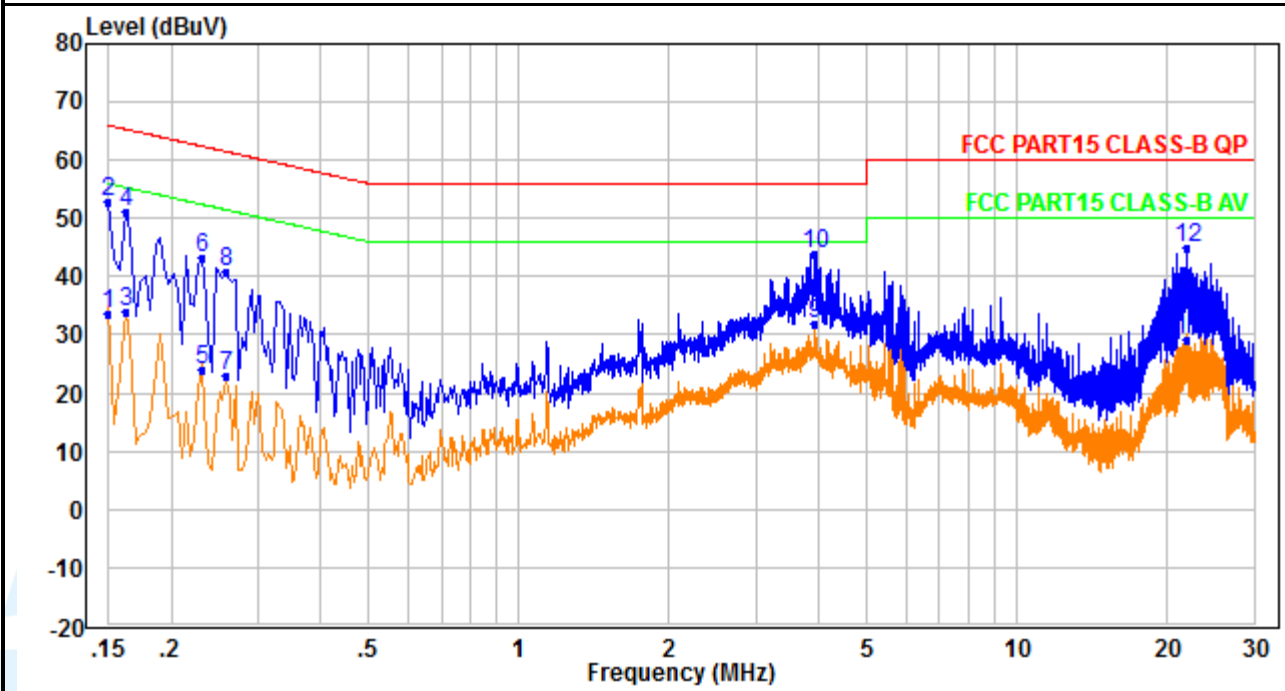
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a 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: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.150	23.74	9.75	33.49	56.00	-22.51	Average
2	0.150	43.27	9.75	53.02	66.00	-12.98	QP
3	0.162	24.23	9.75	33.98	55.36	-21.38	Average
4	0.162	41.22	9.75	50.97	65.36	-14.39	QP
5	0.230	14.25	9.74	23.99	52.45	-28.46	Average
6	0.230	33.63	9.74	43.37	62.45	-19.08	QP
7	0.258	13.14	9.75	22.89	51.50	-28.61	Average
8	0.258	31.11	9.75	40.86	61.50	-20.64	QP
9	3.926	21.86	10.09	31.95	46.00	-14.05	Average
10	3.926	33.69	10.09	43.78	56.00	-12.22	QP
11	21.917	18.61	10.56	29.17	50.00	-20.83	Average
12	21.917	34.46	10.56	45.02	60.00	-14.98	QP

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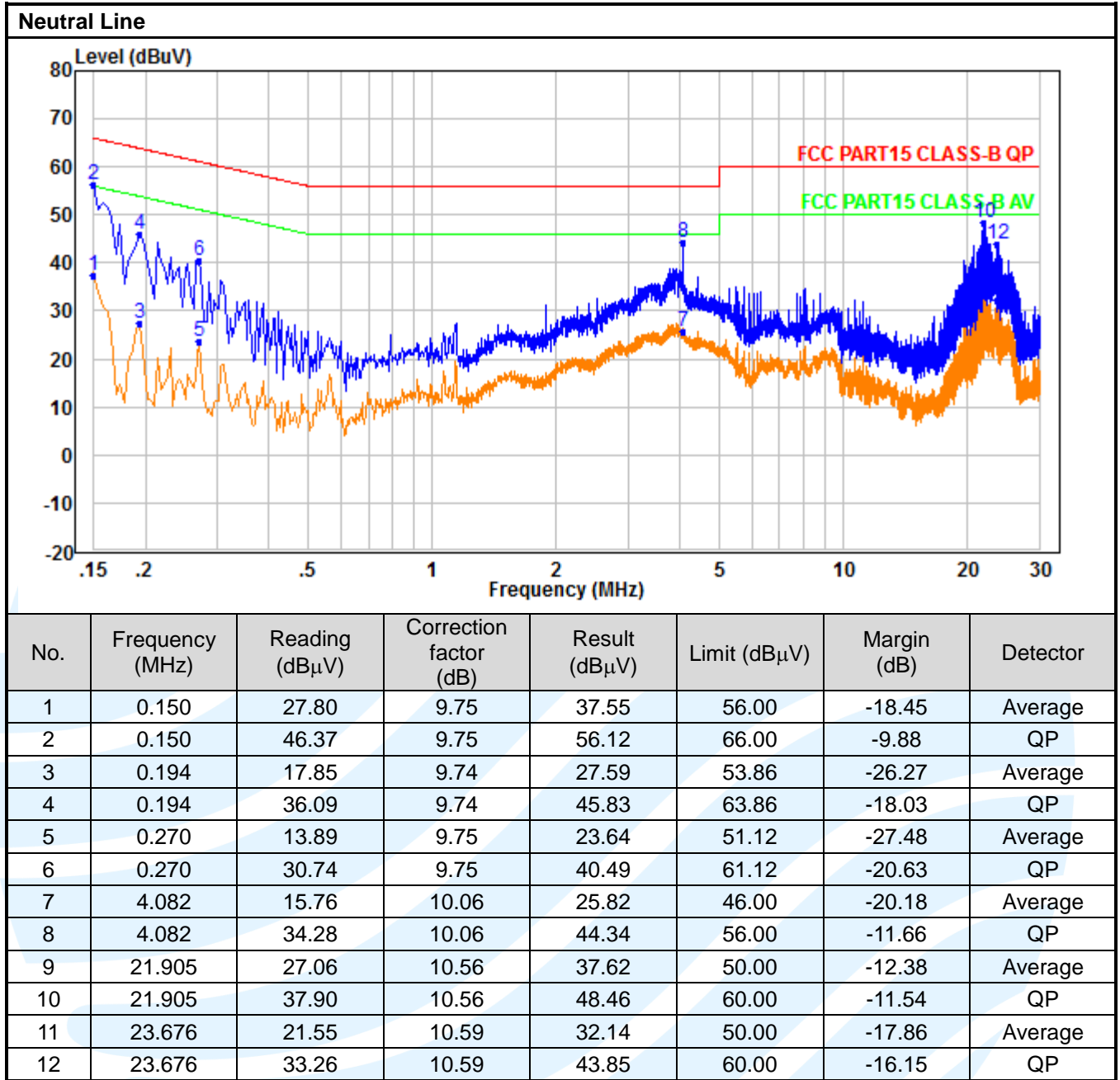
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UTTR-RF-FCCPART15.407-V1.1



**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.

## 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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The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.

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