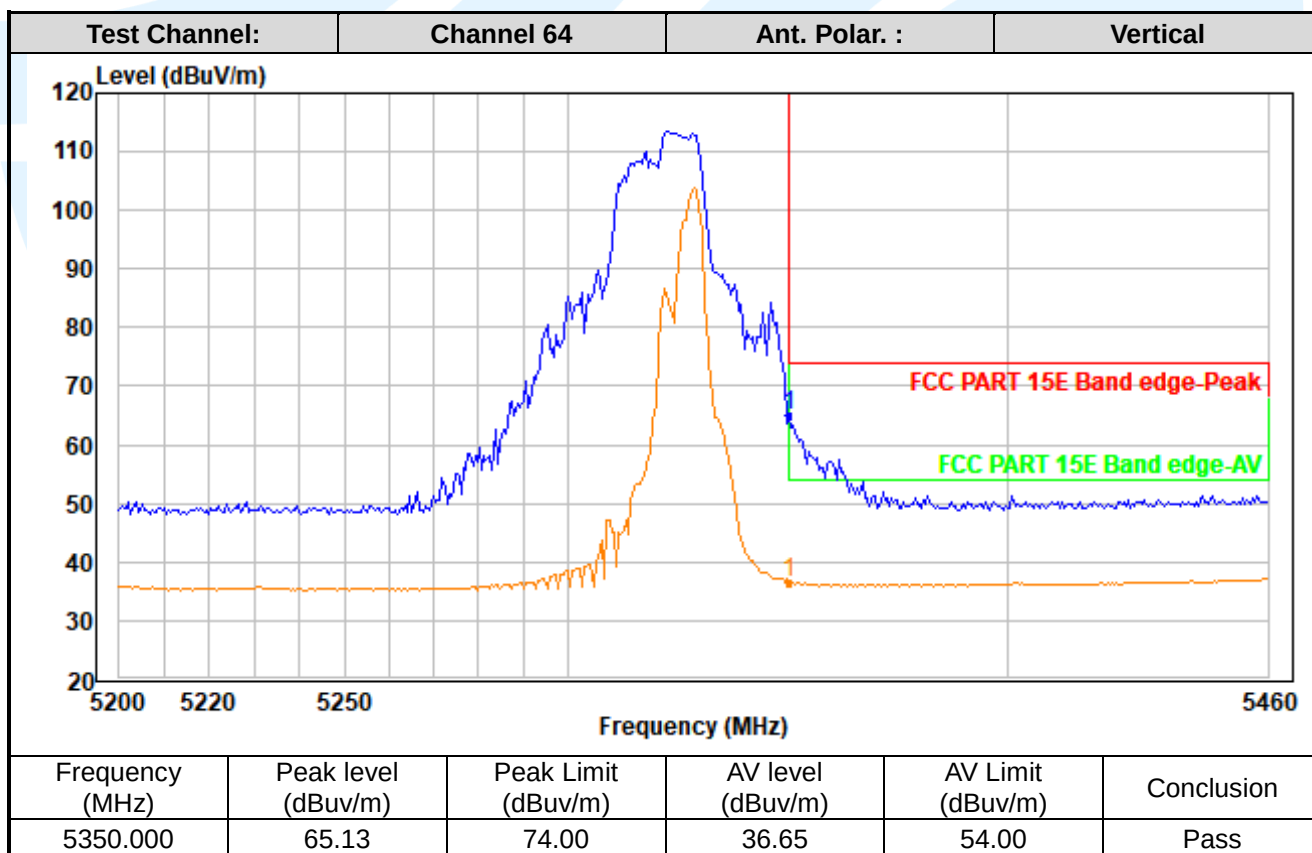
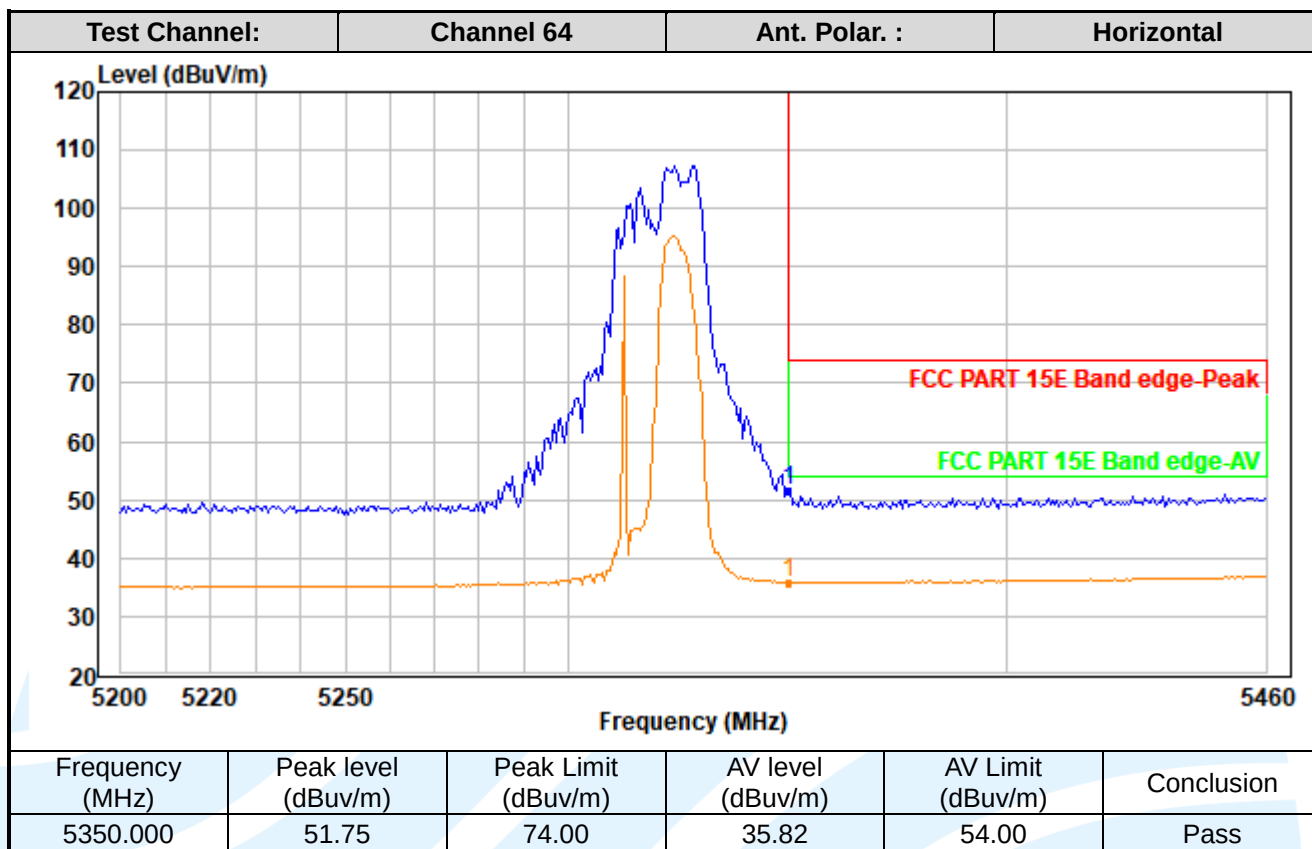
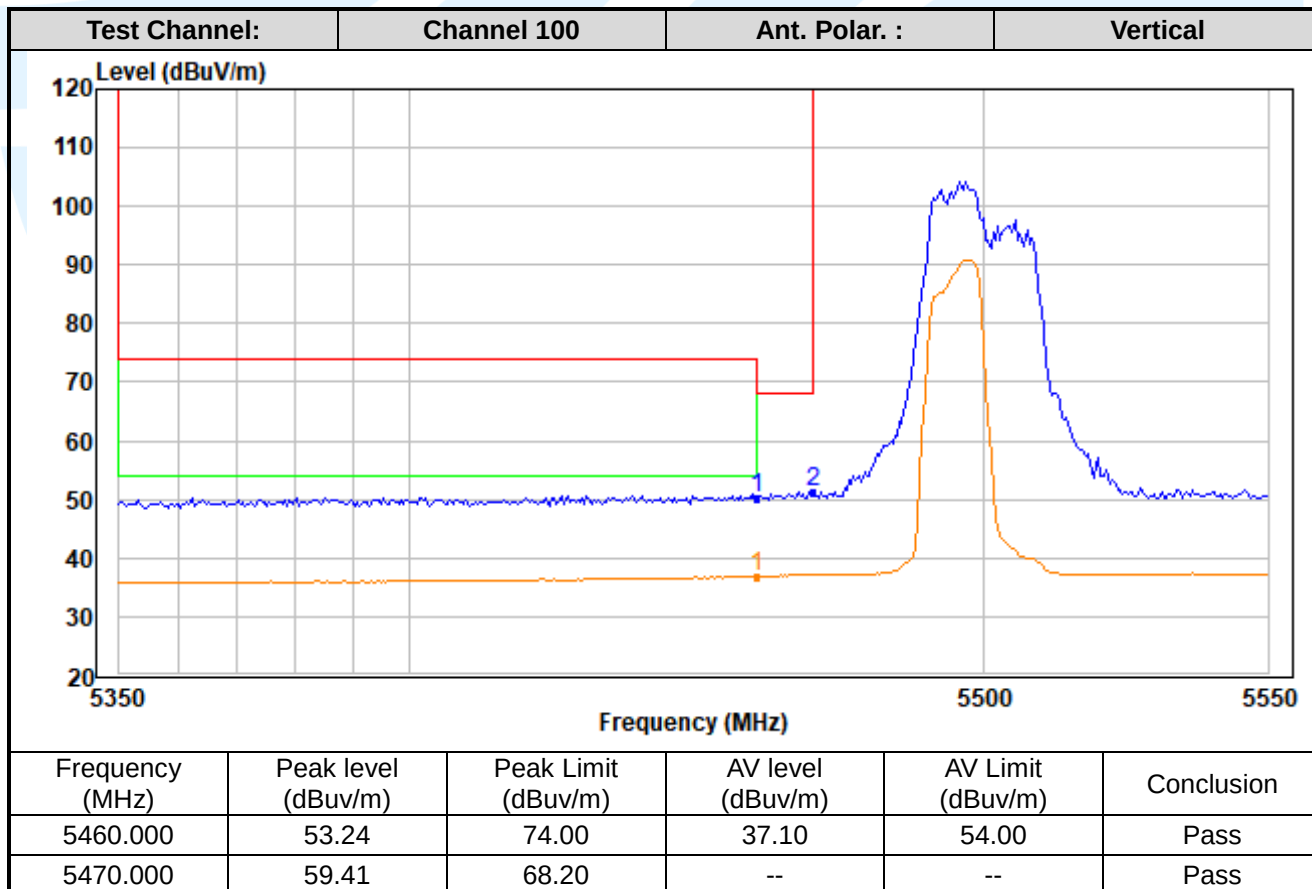
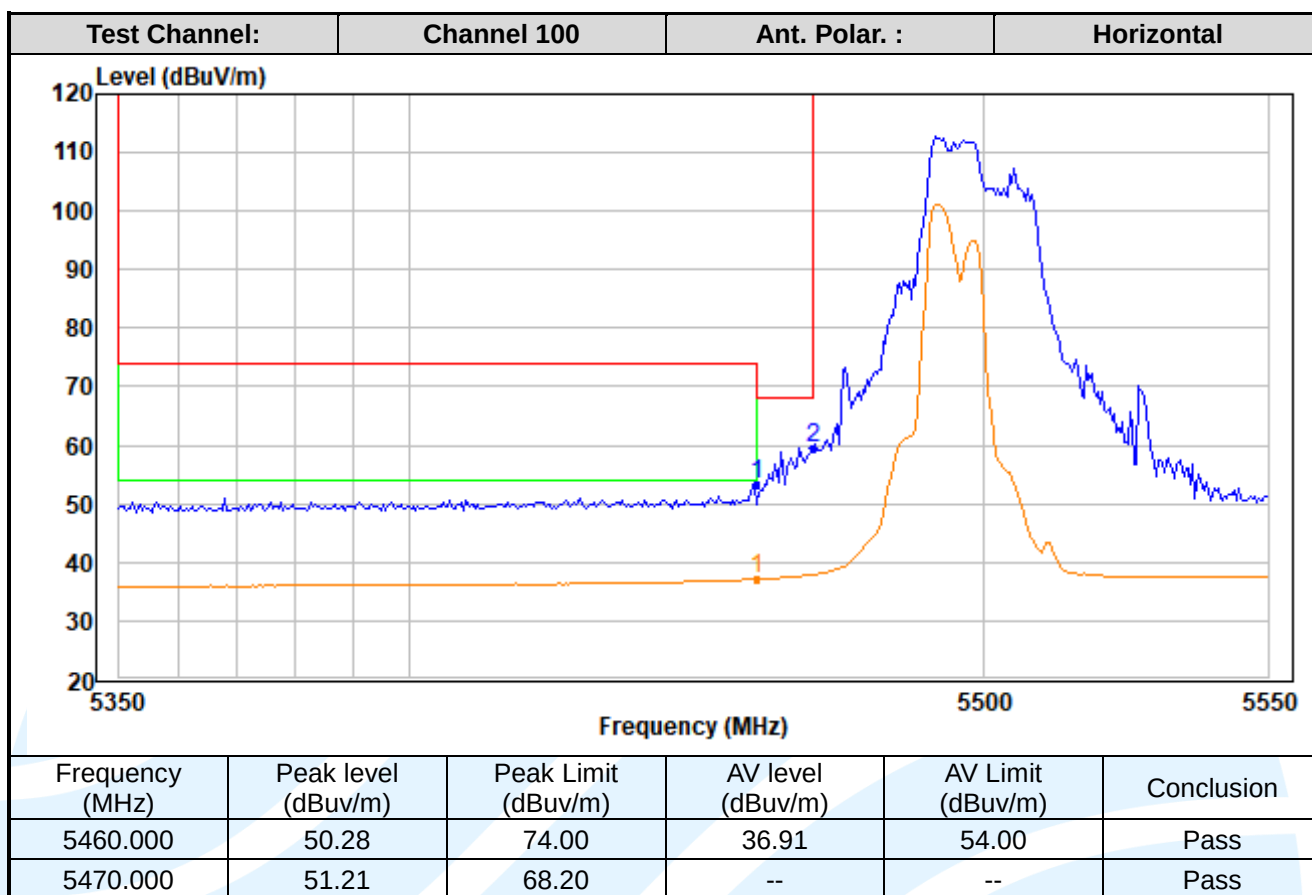






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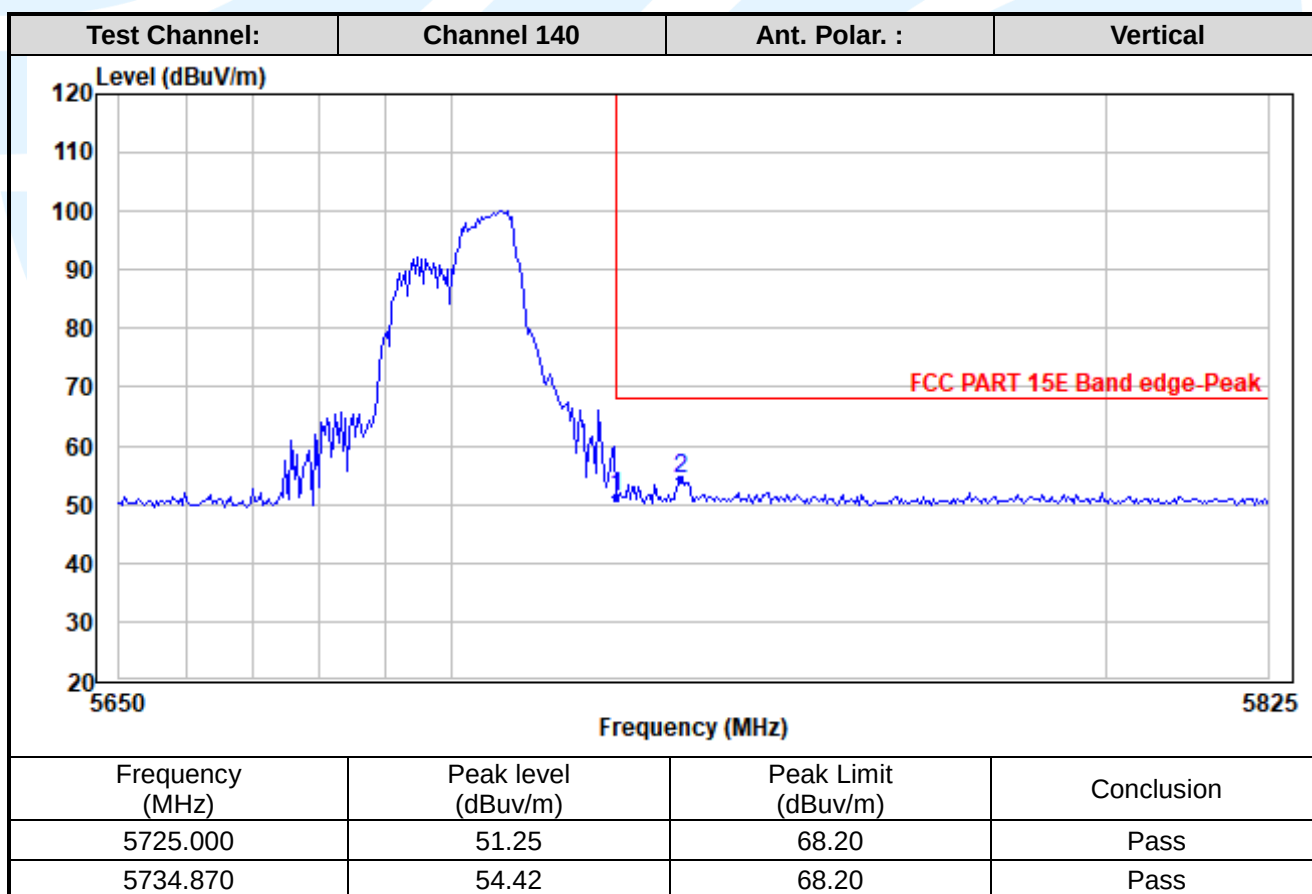
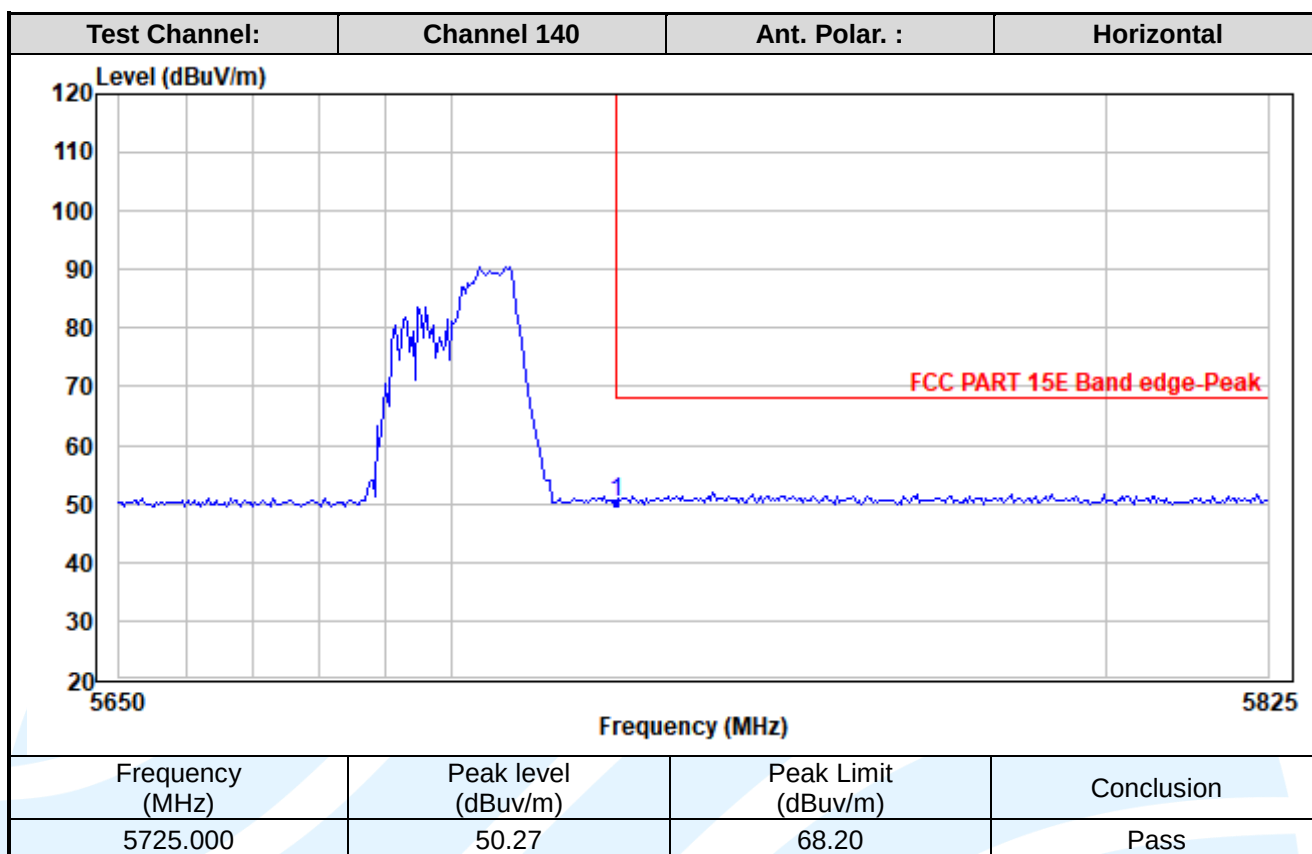
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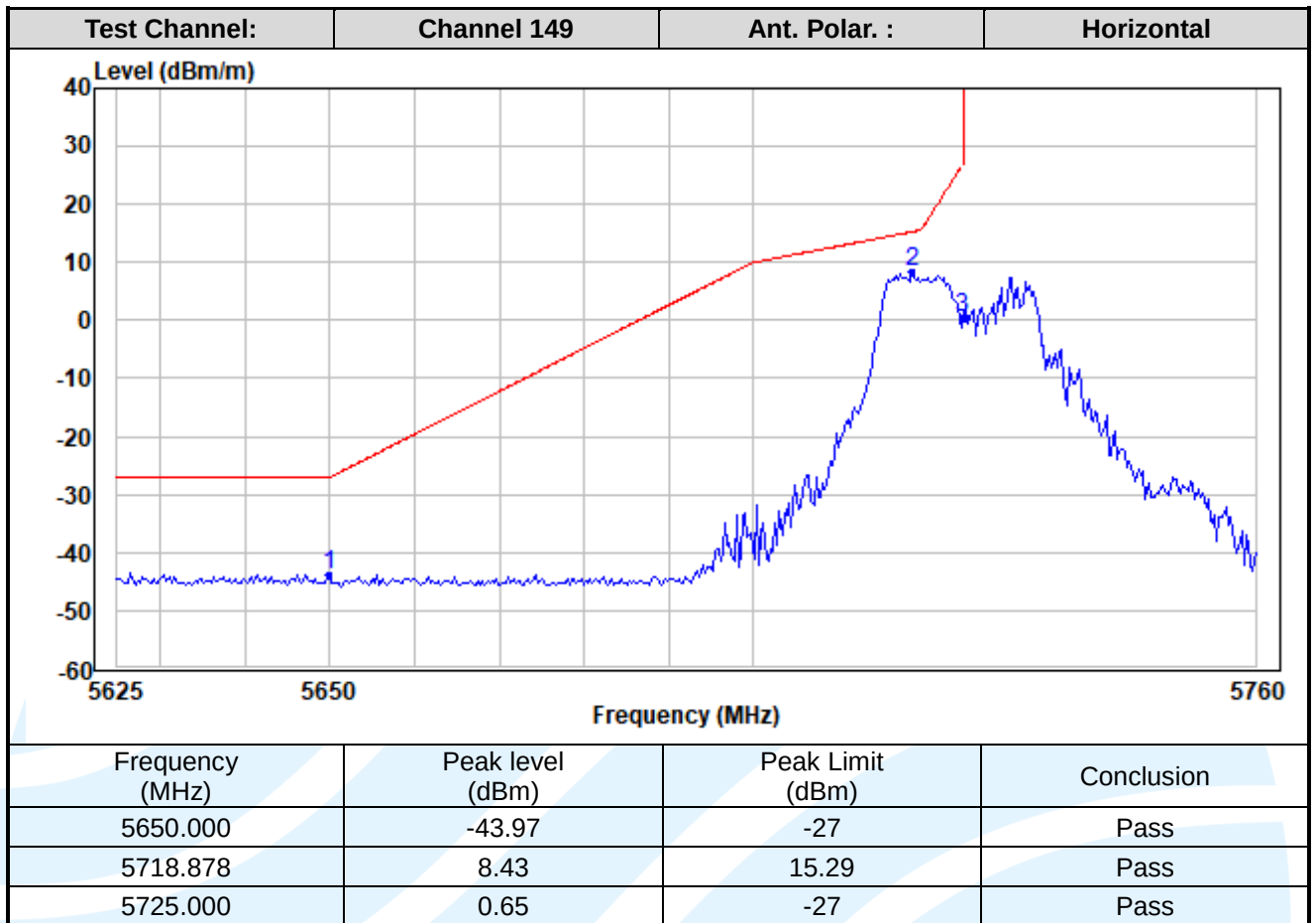
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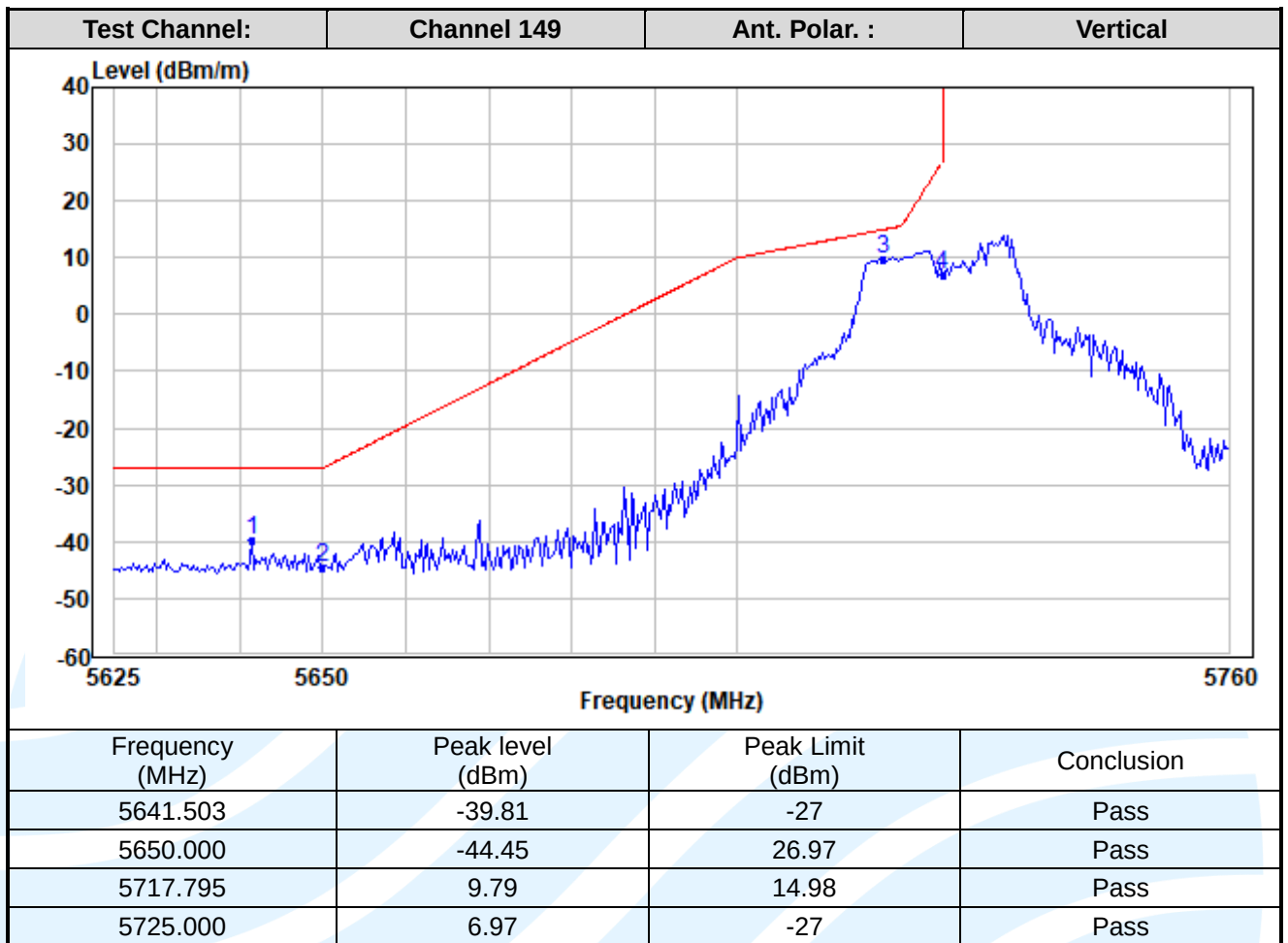
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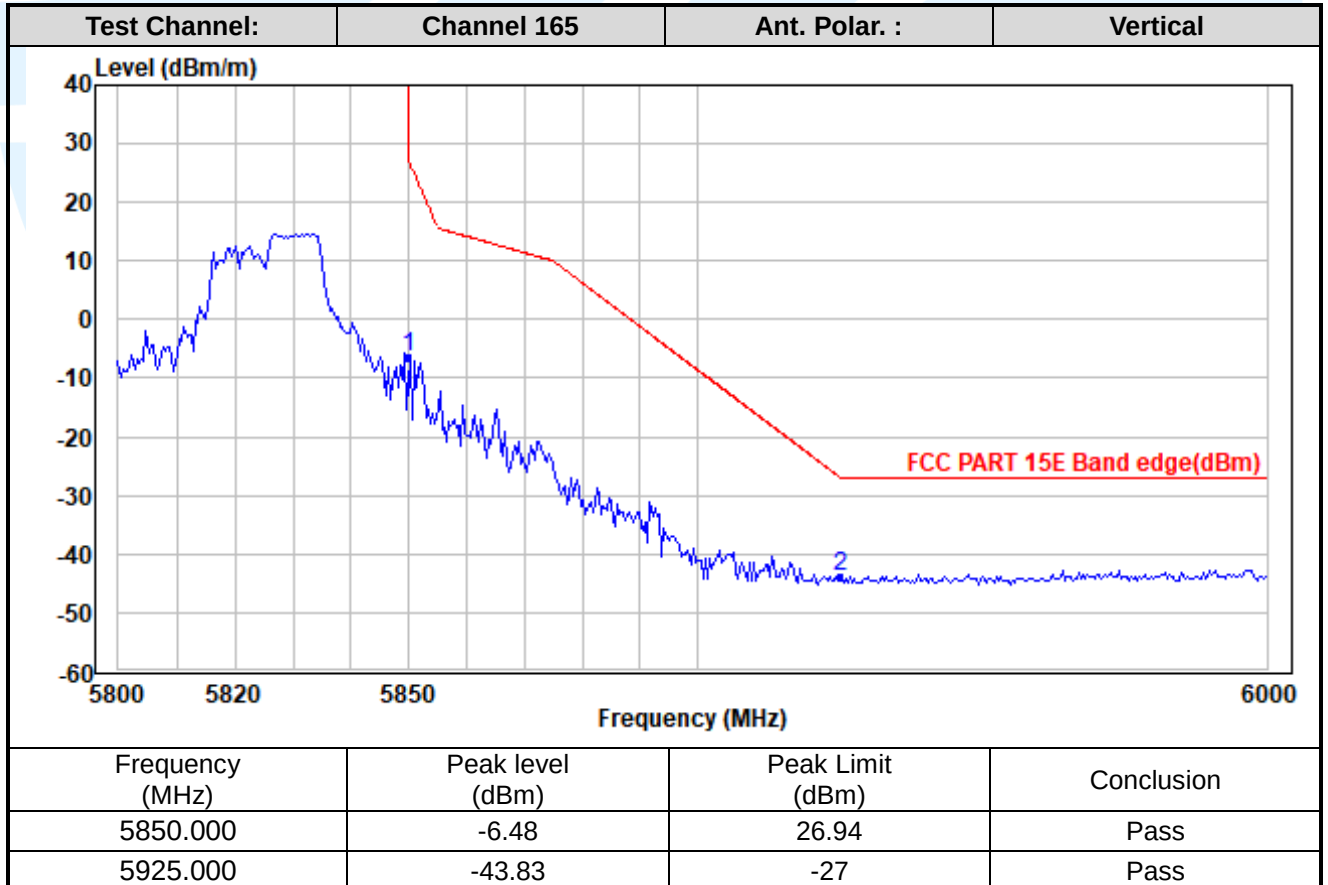
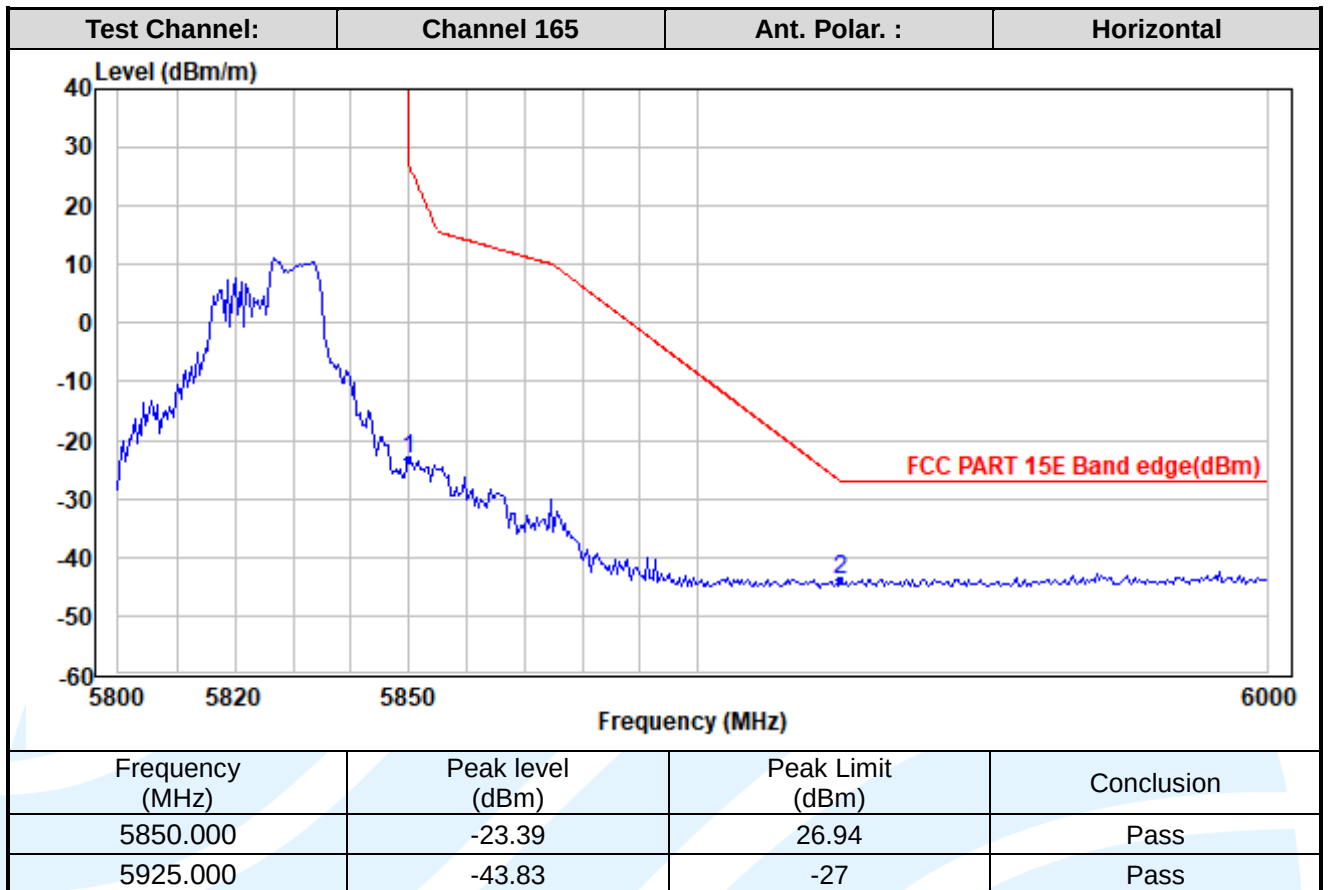
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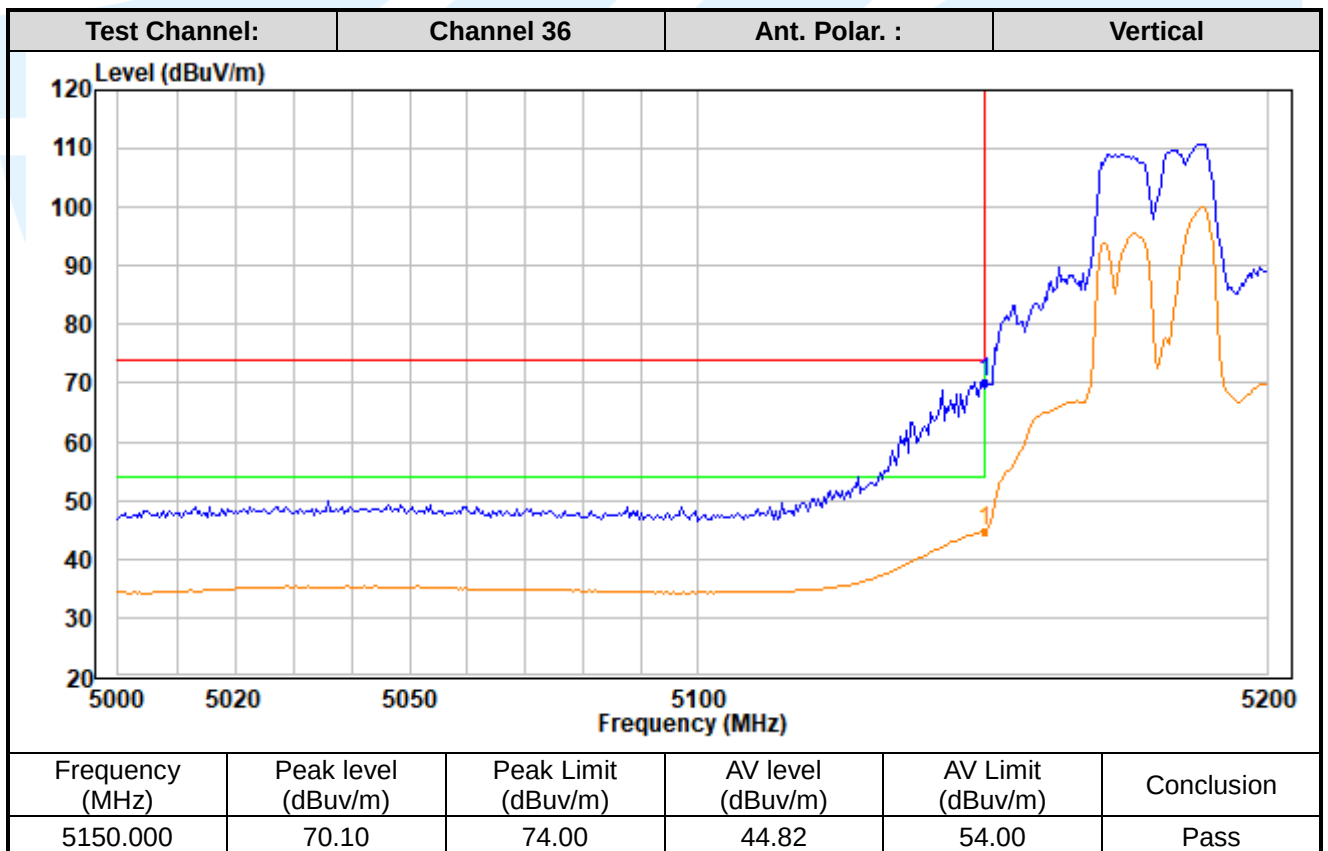
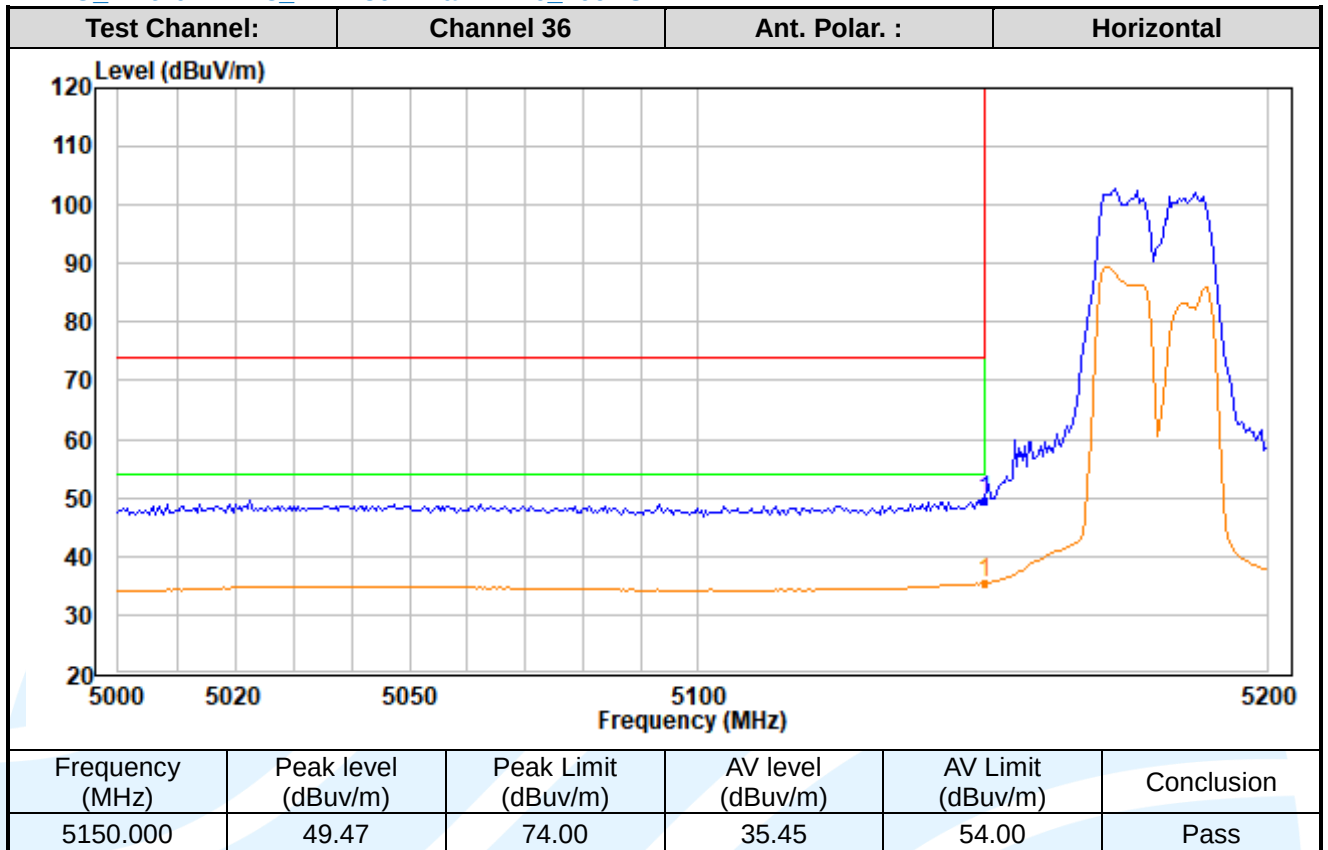
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MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20_106RU



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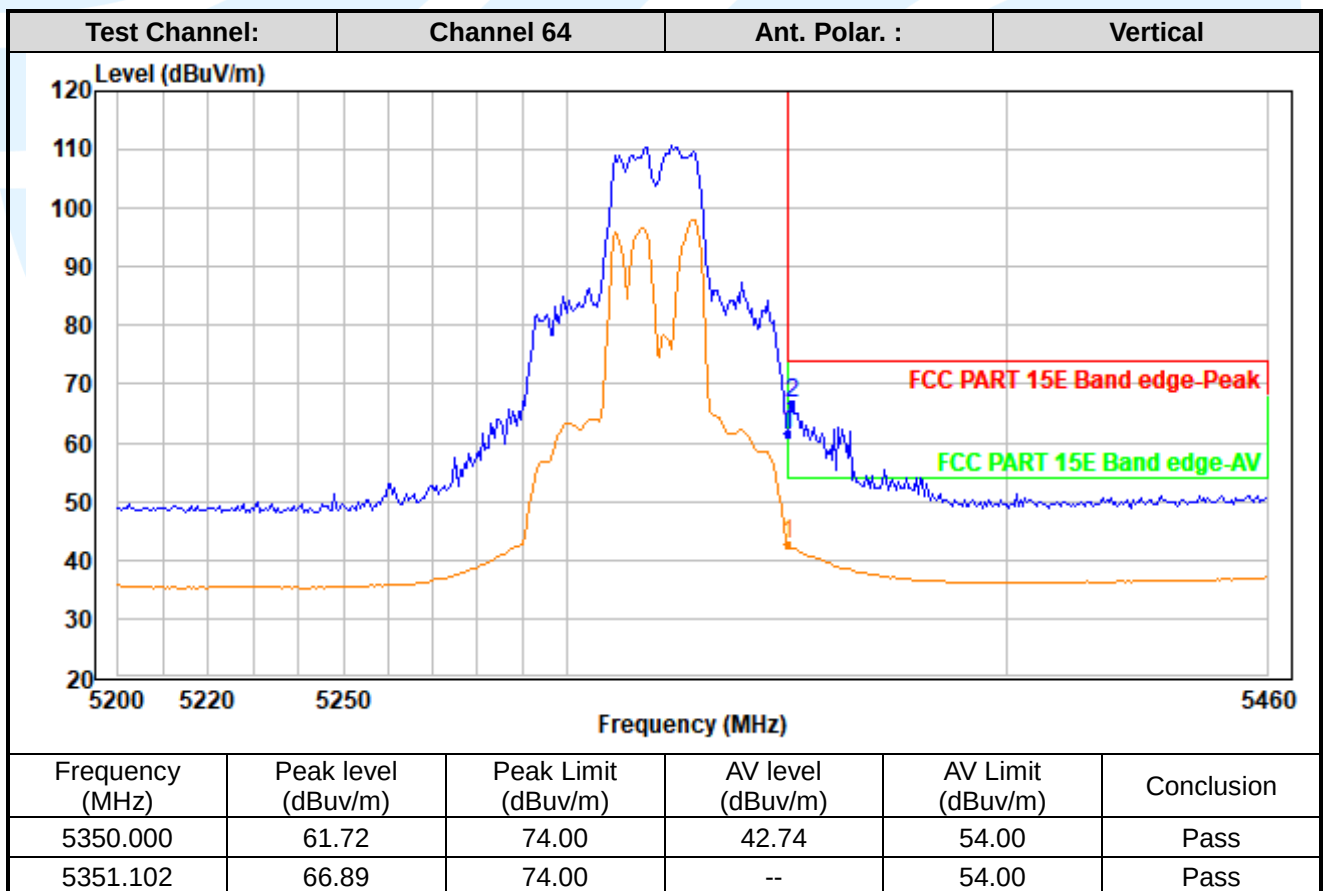
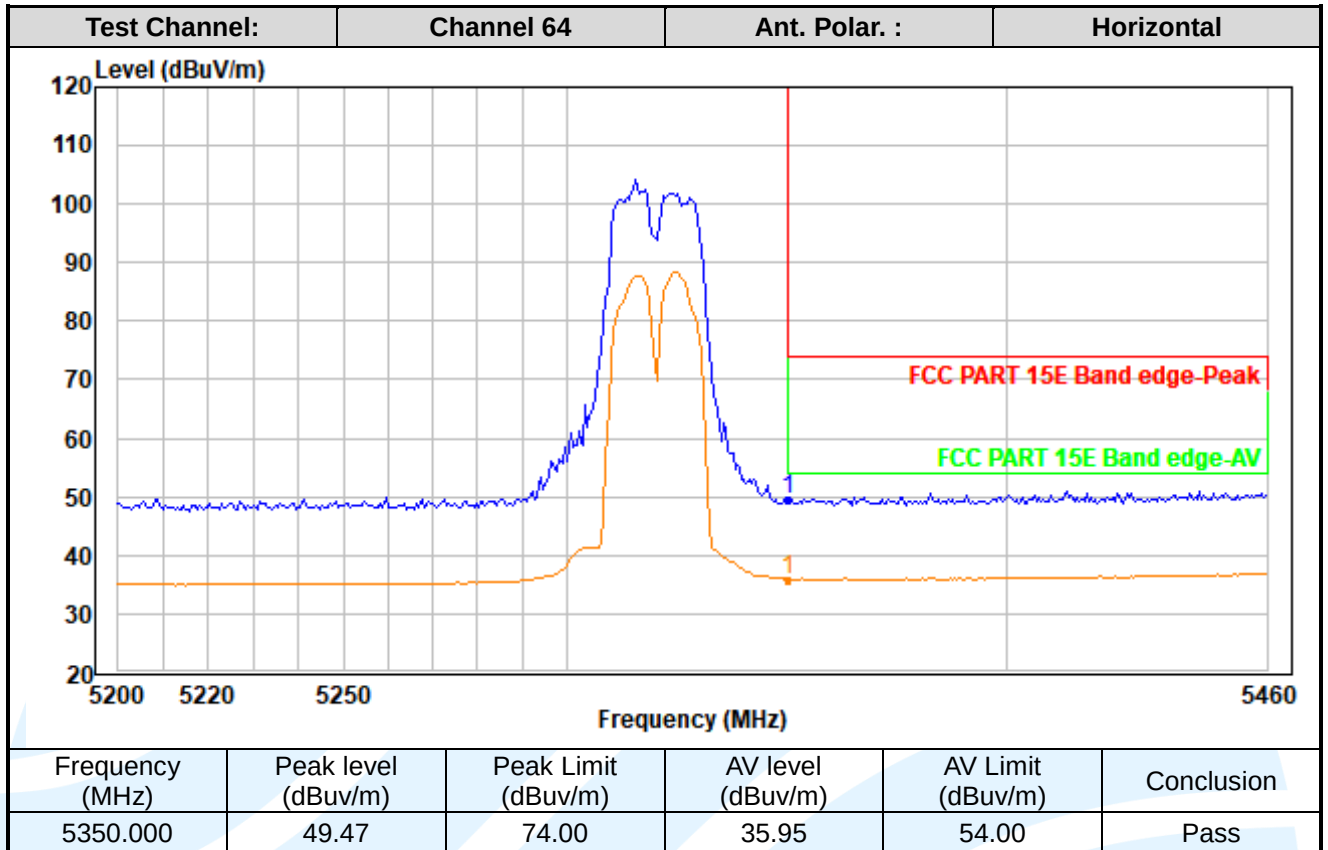
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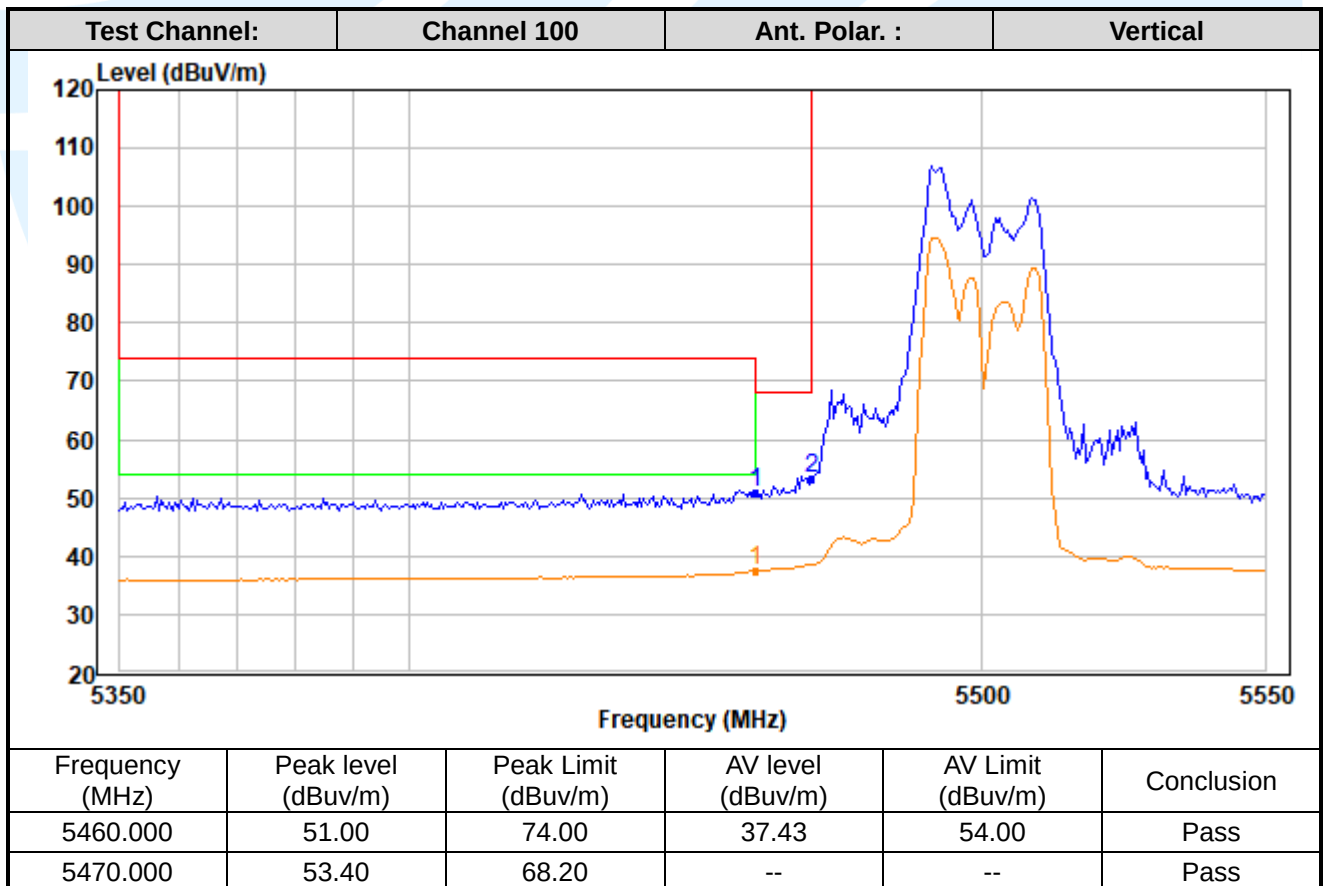
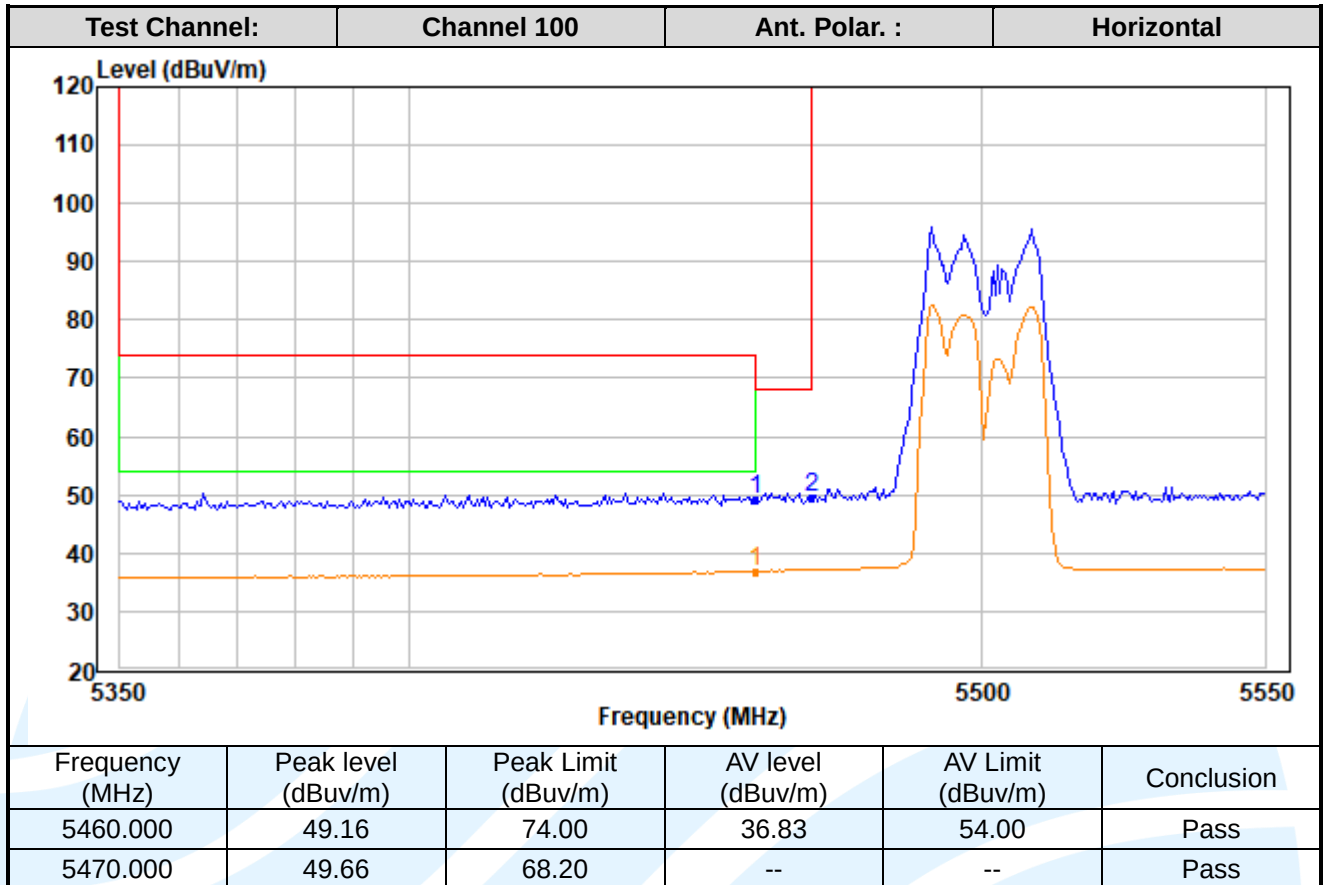
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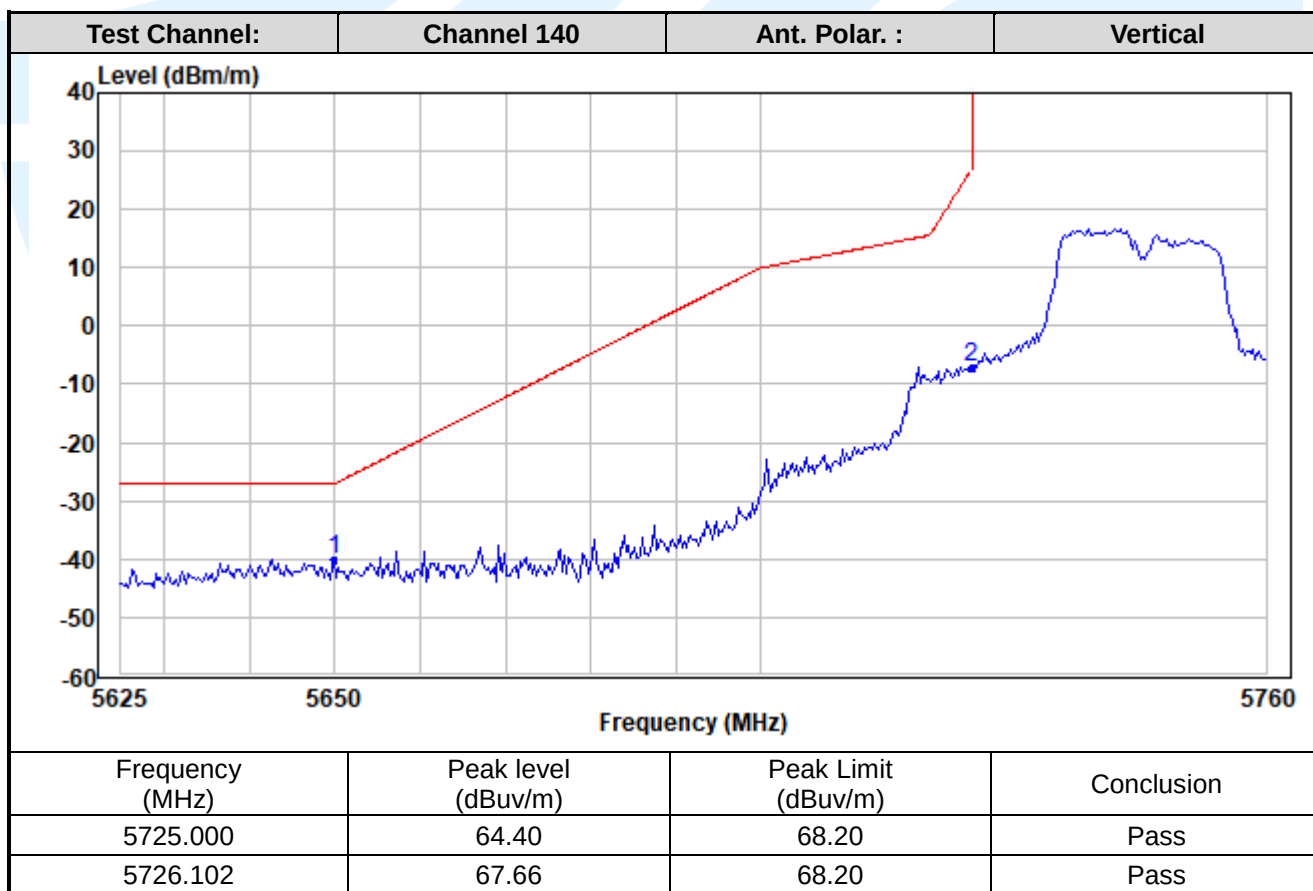
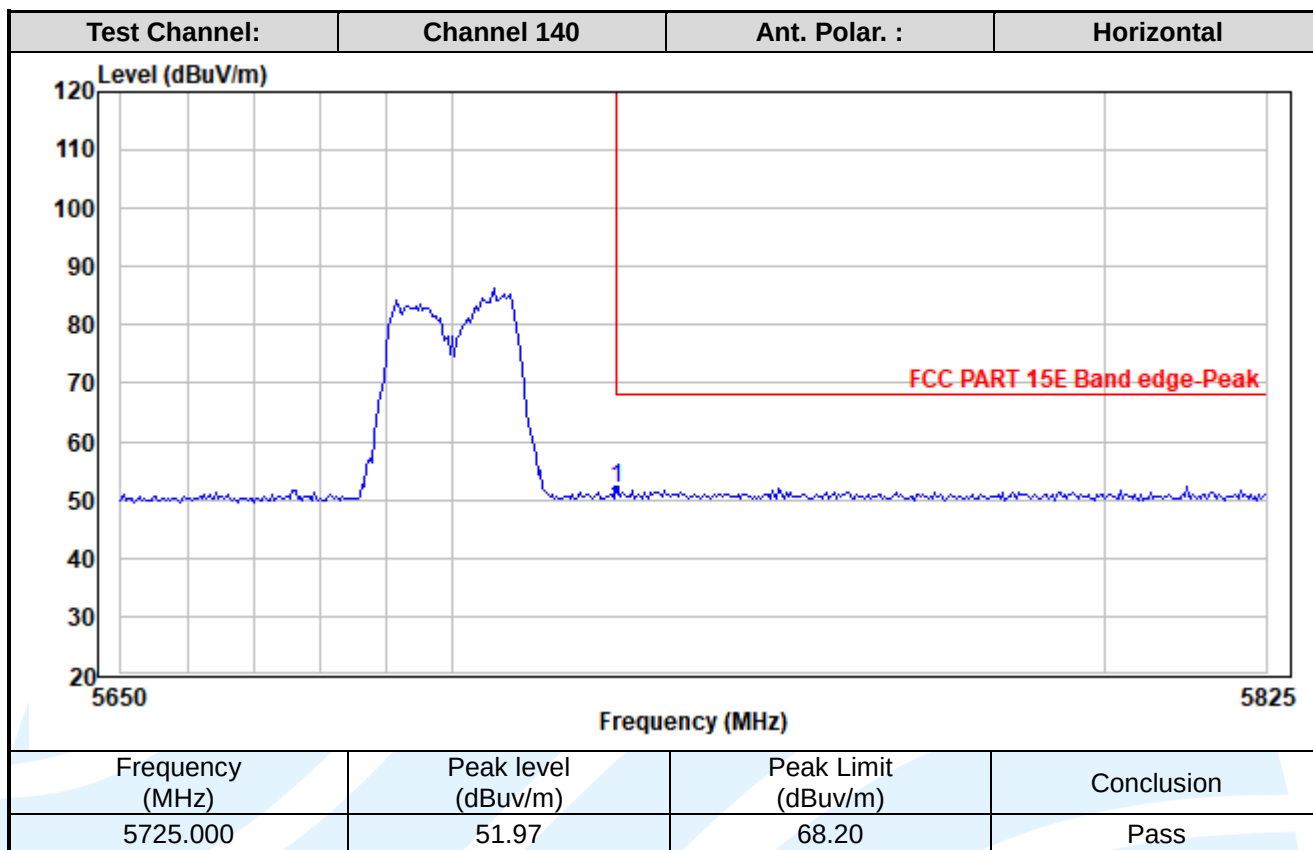
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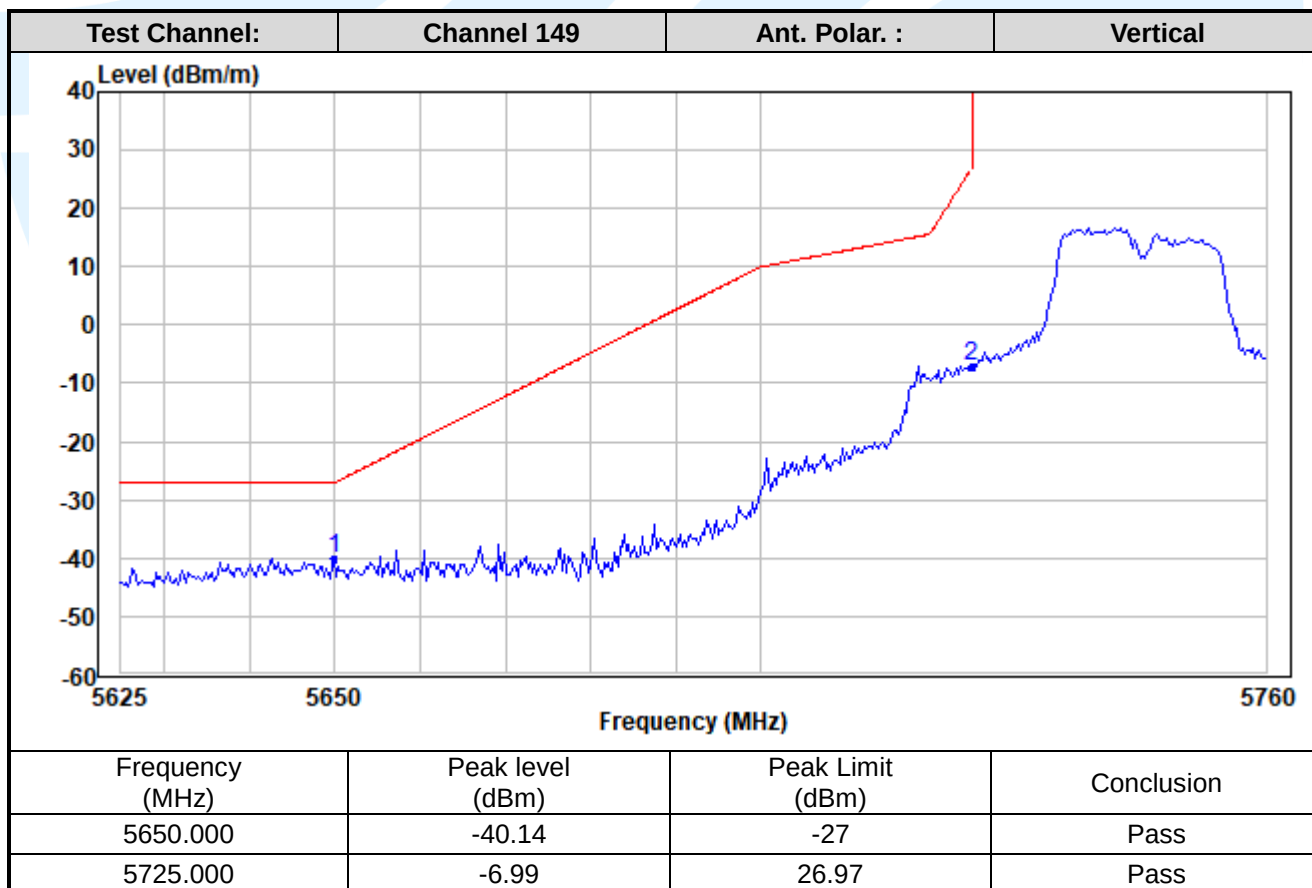
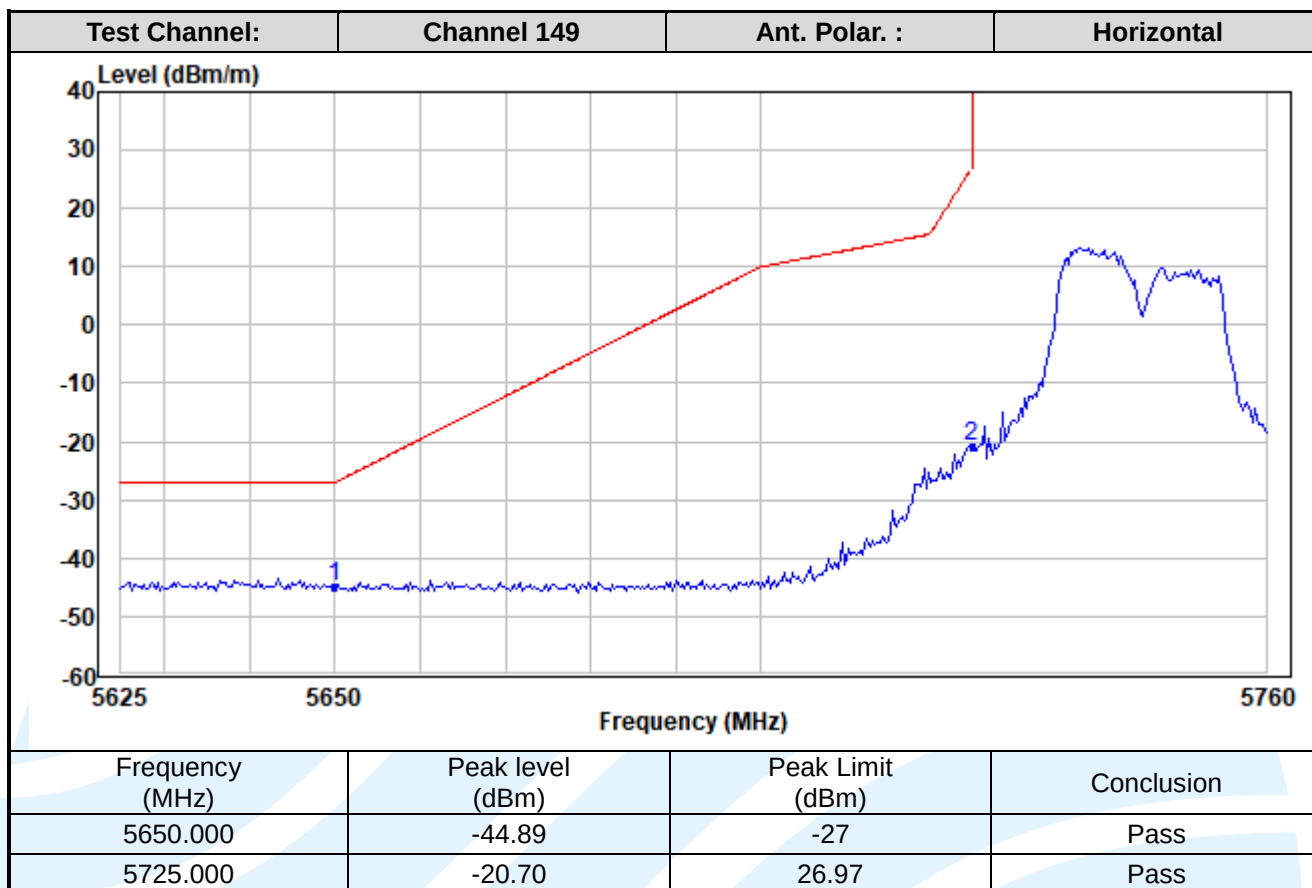
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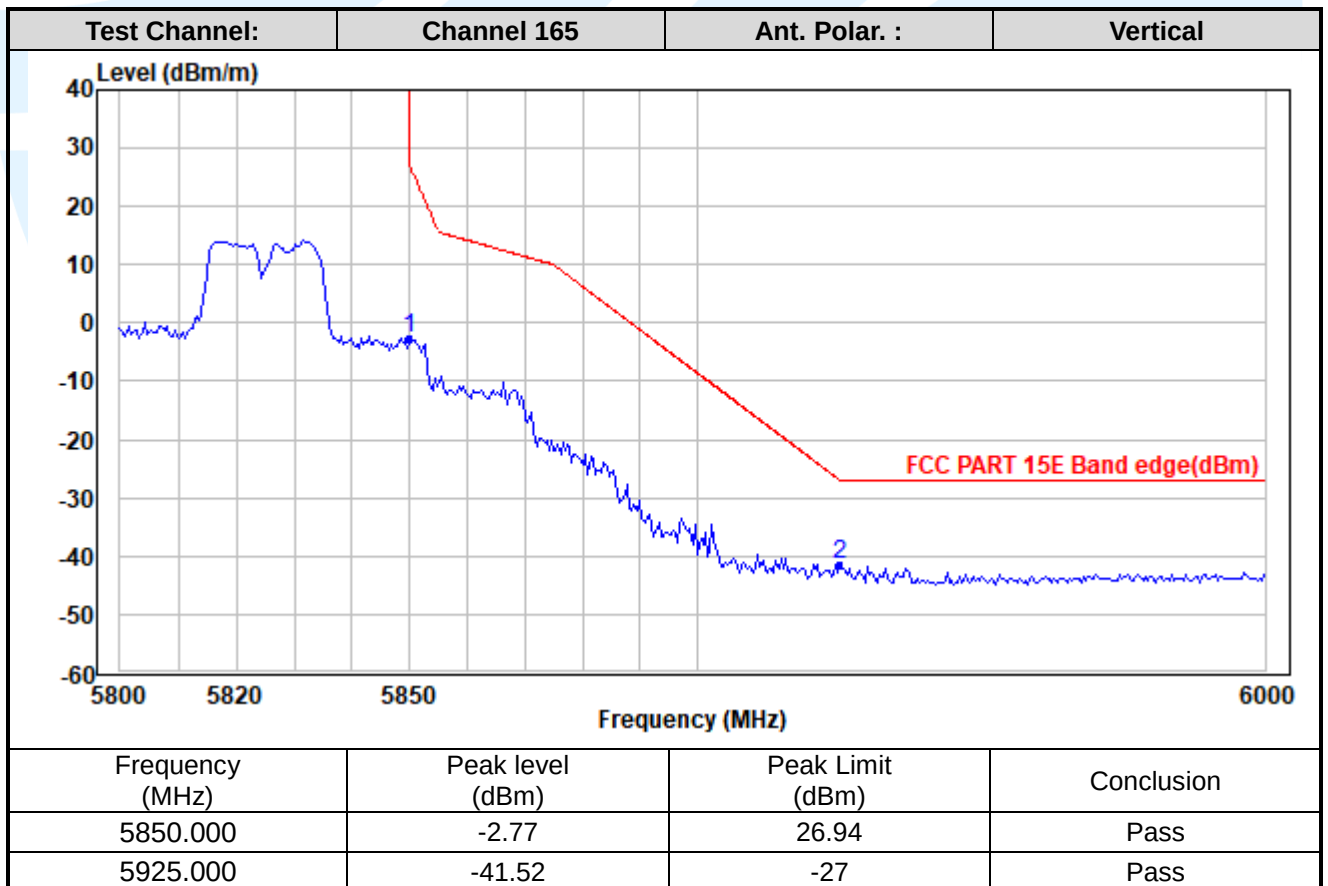
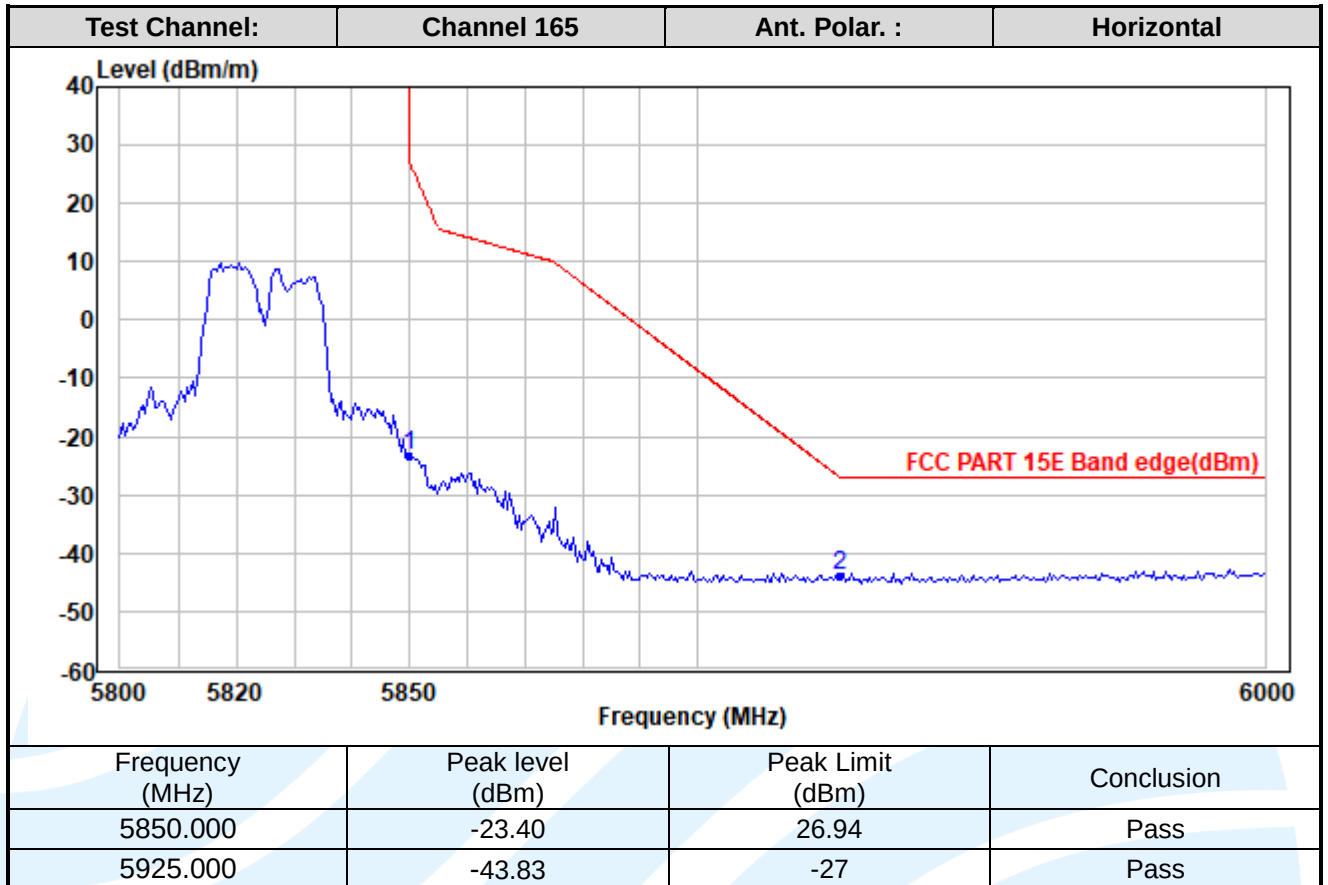
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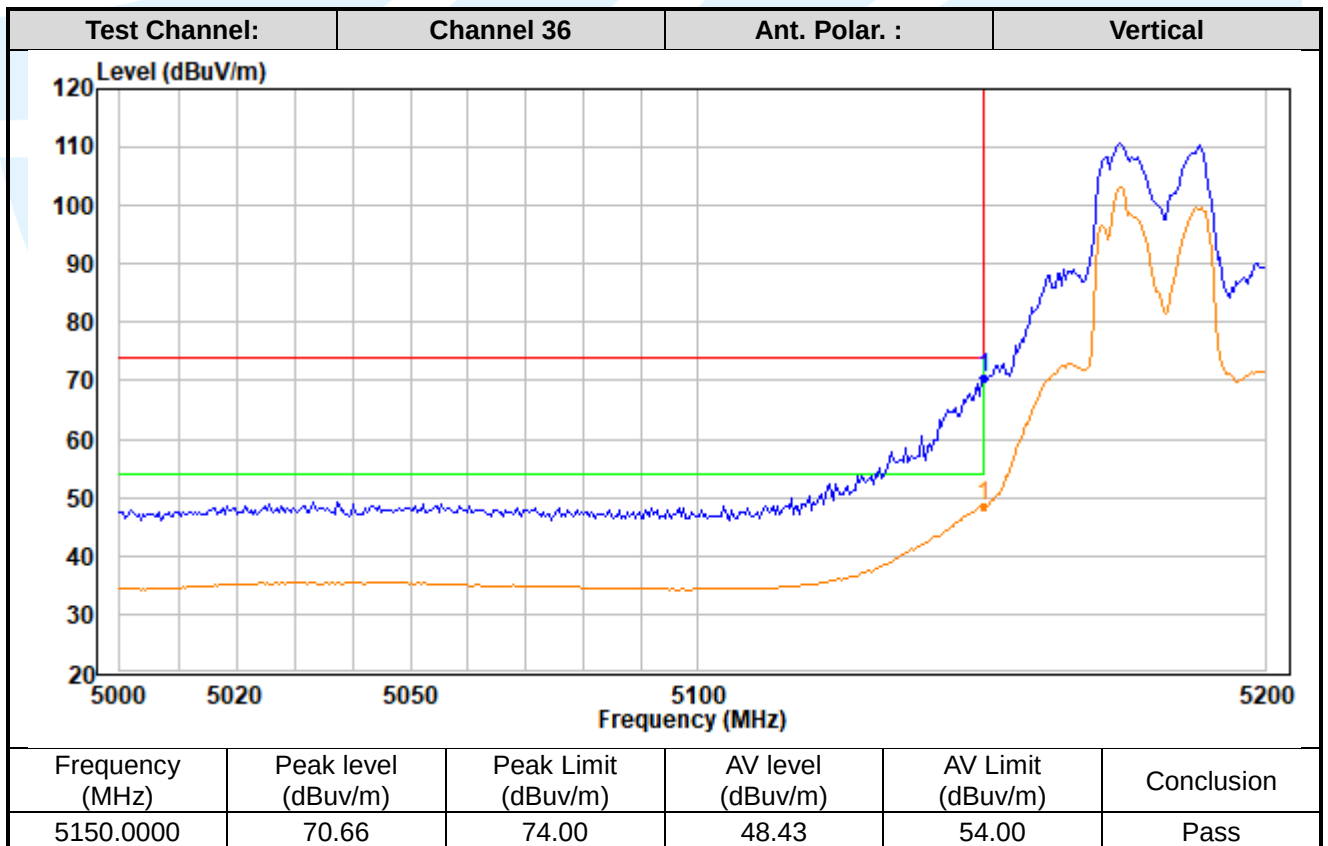
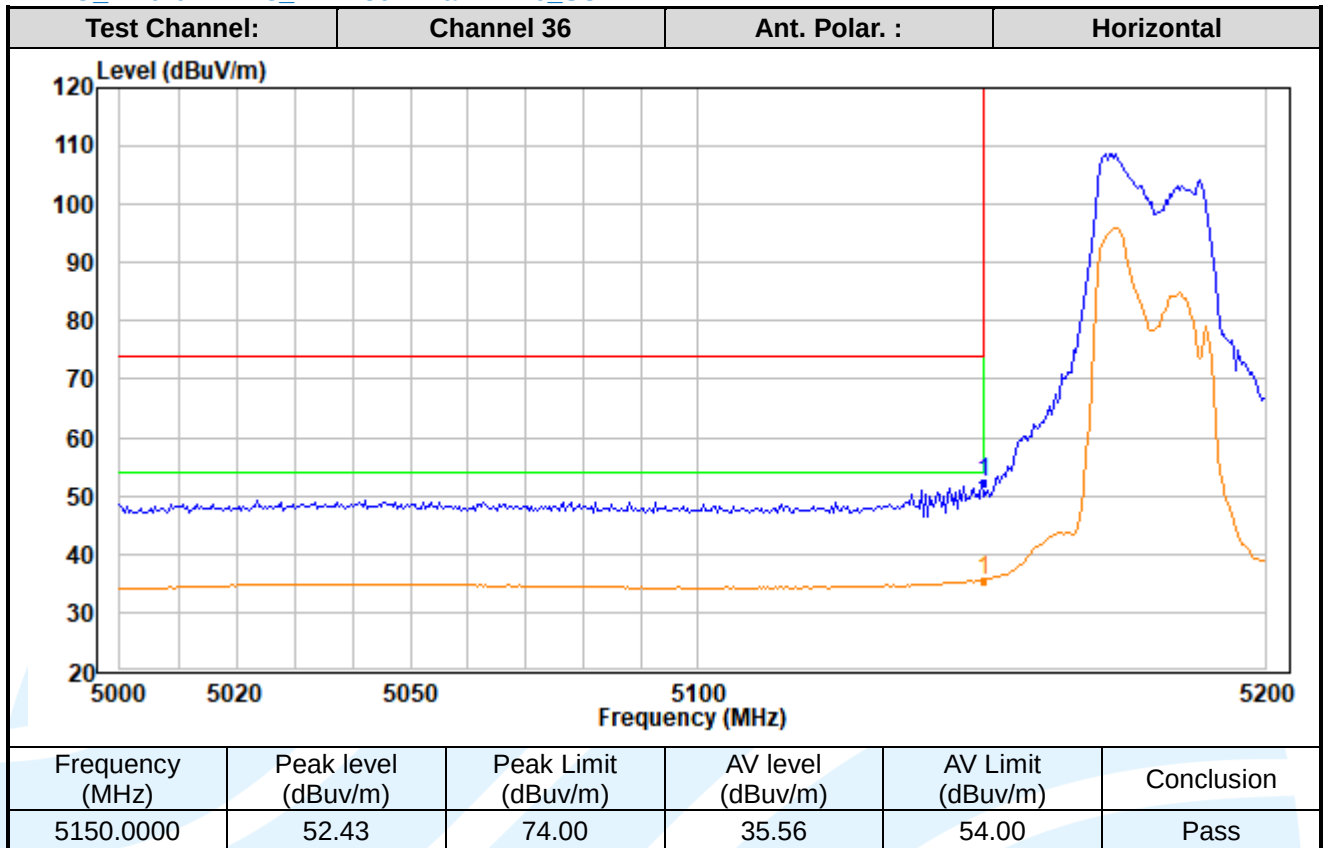
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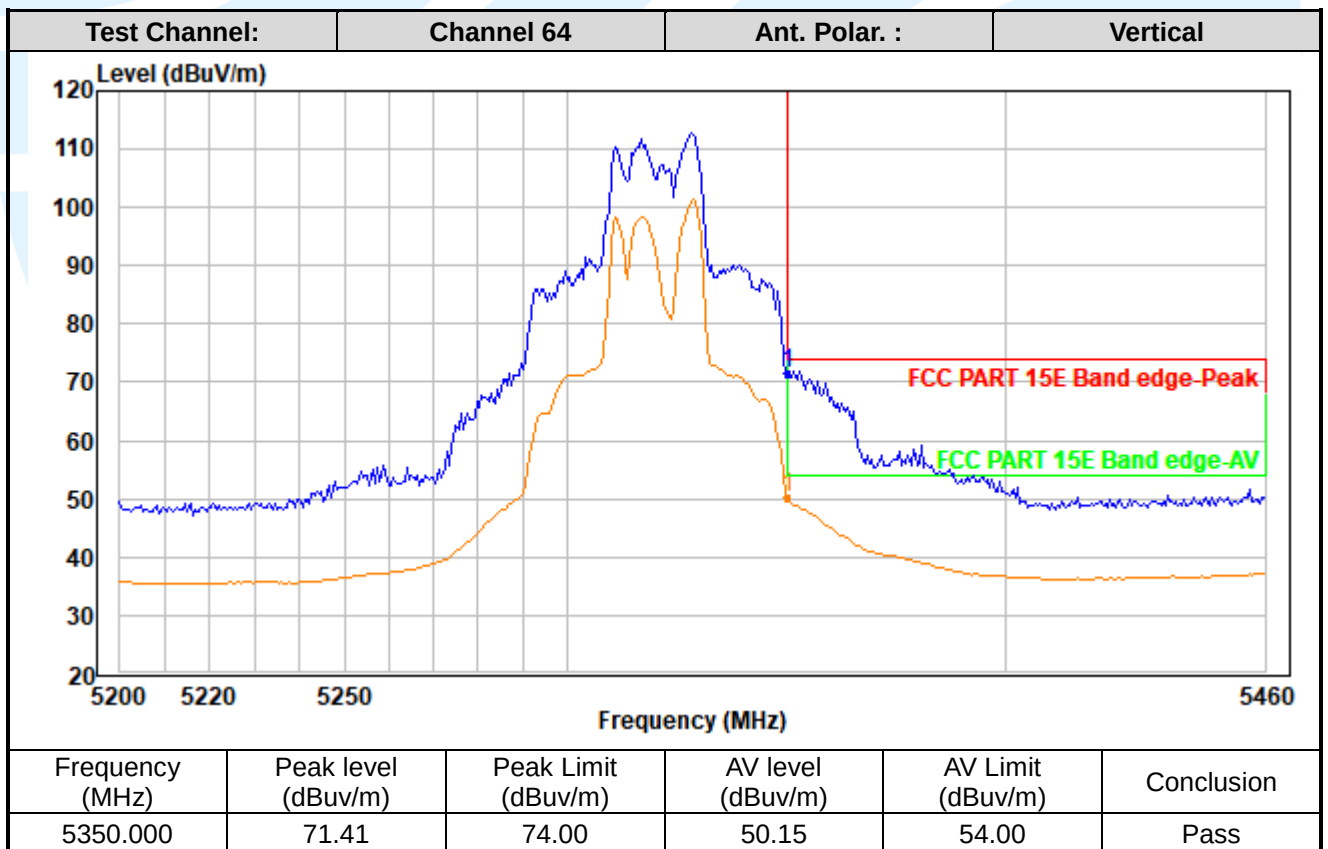
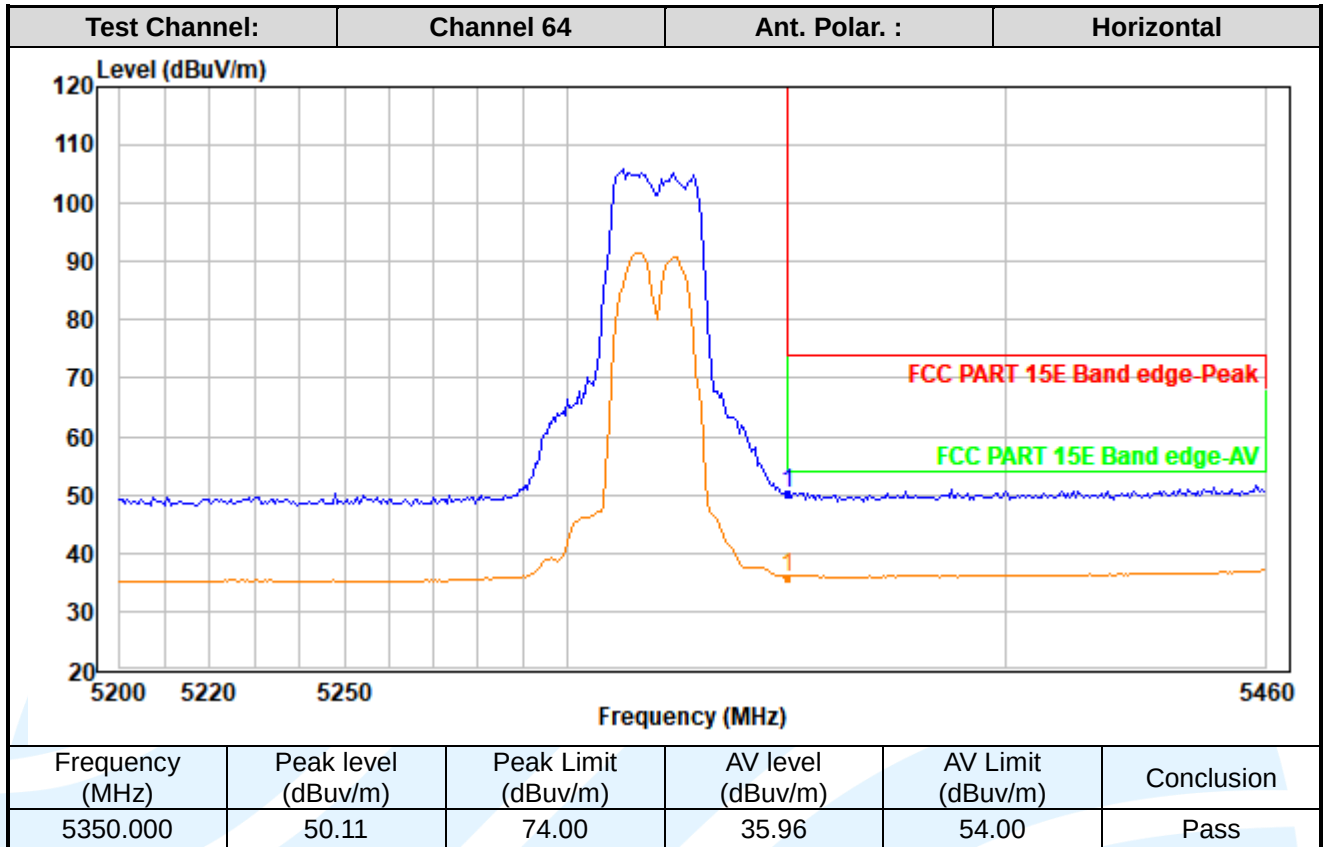
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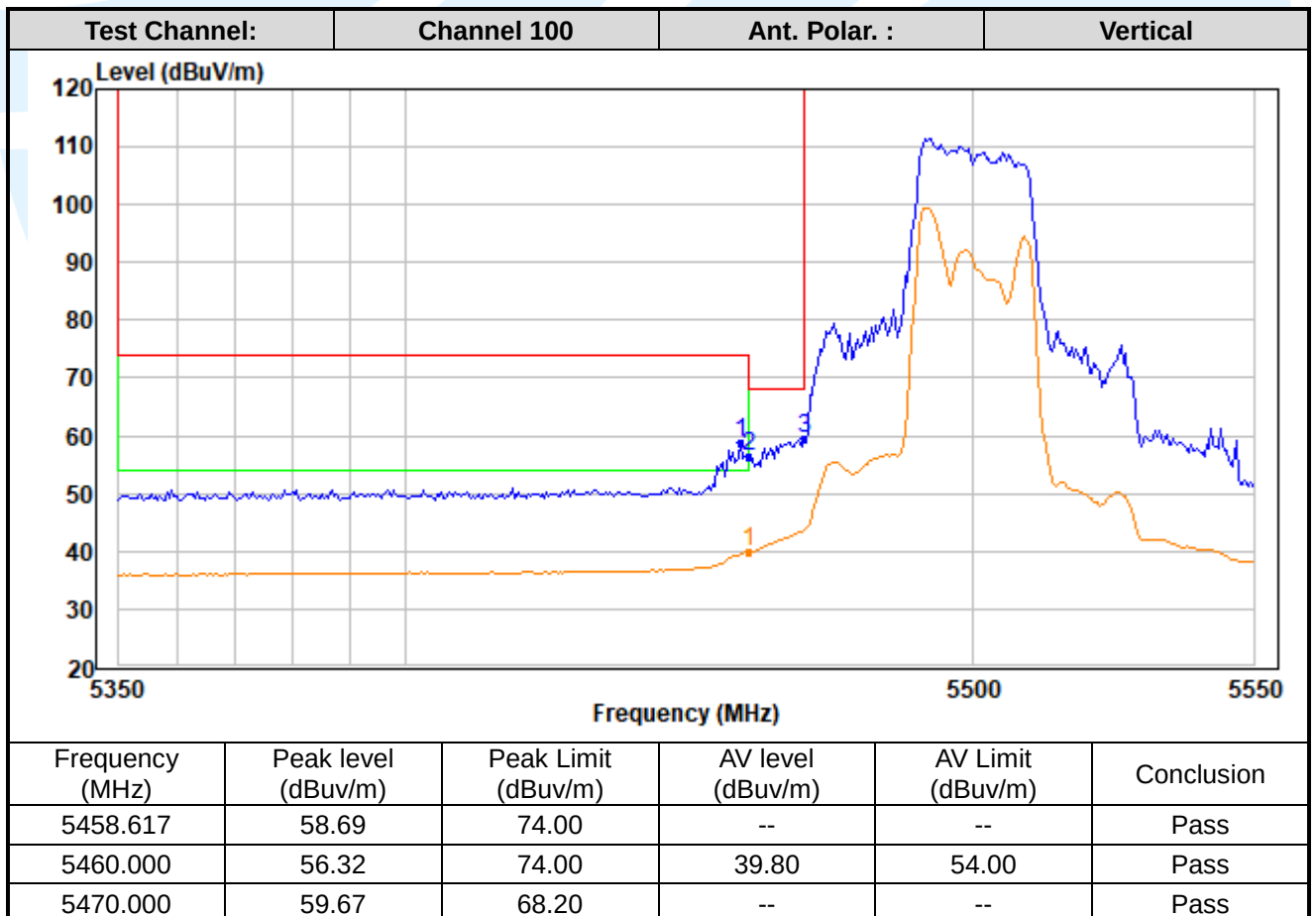
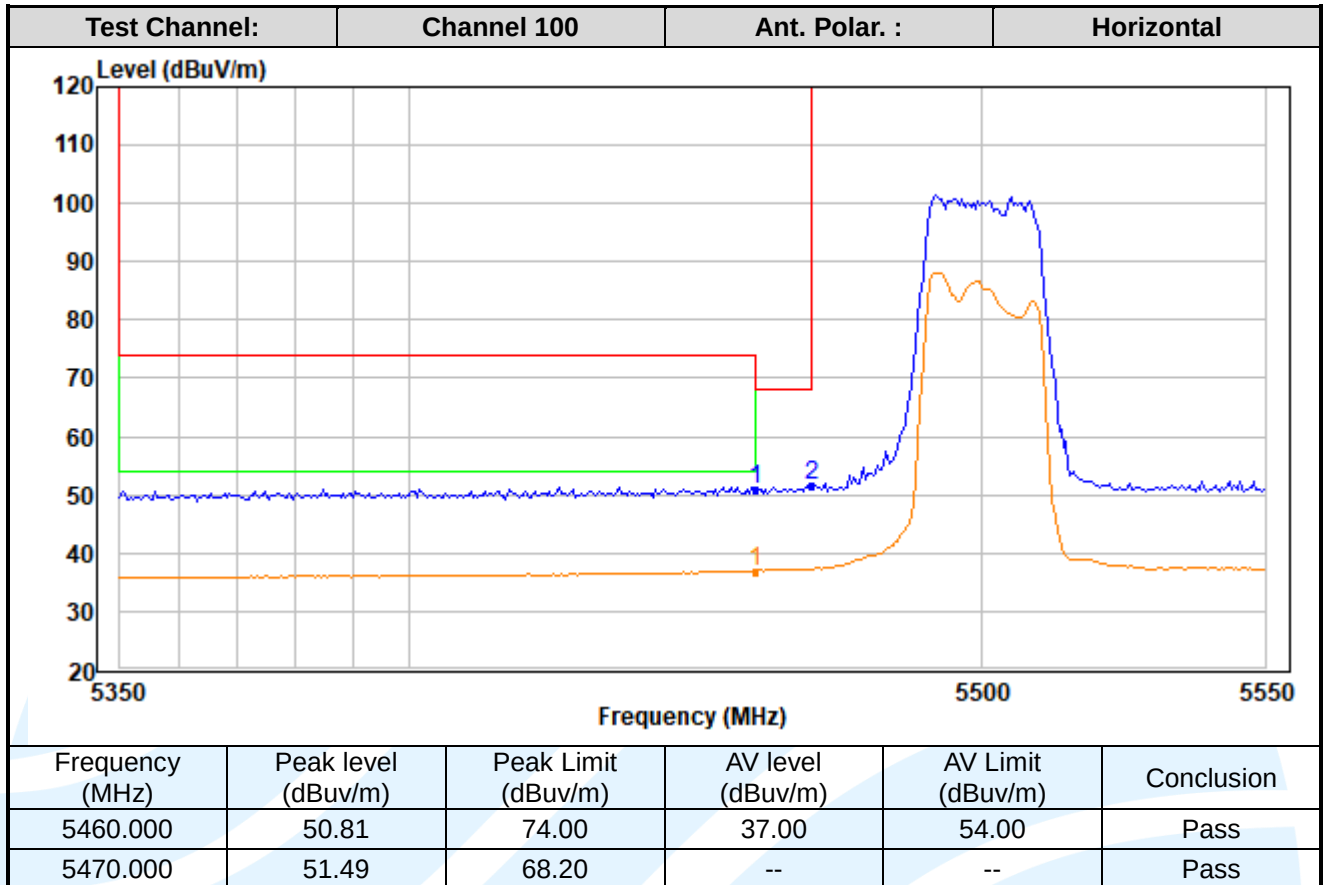
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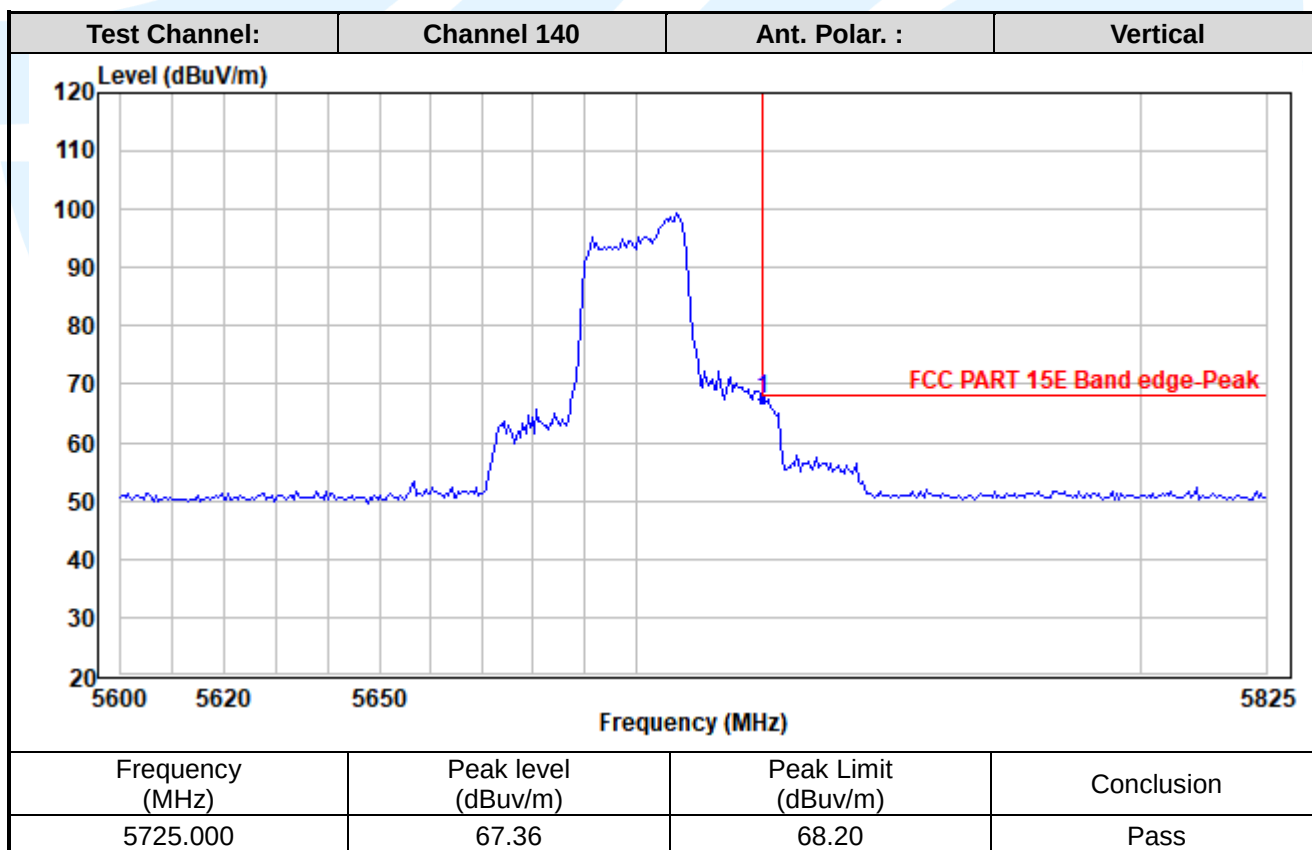
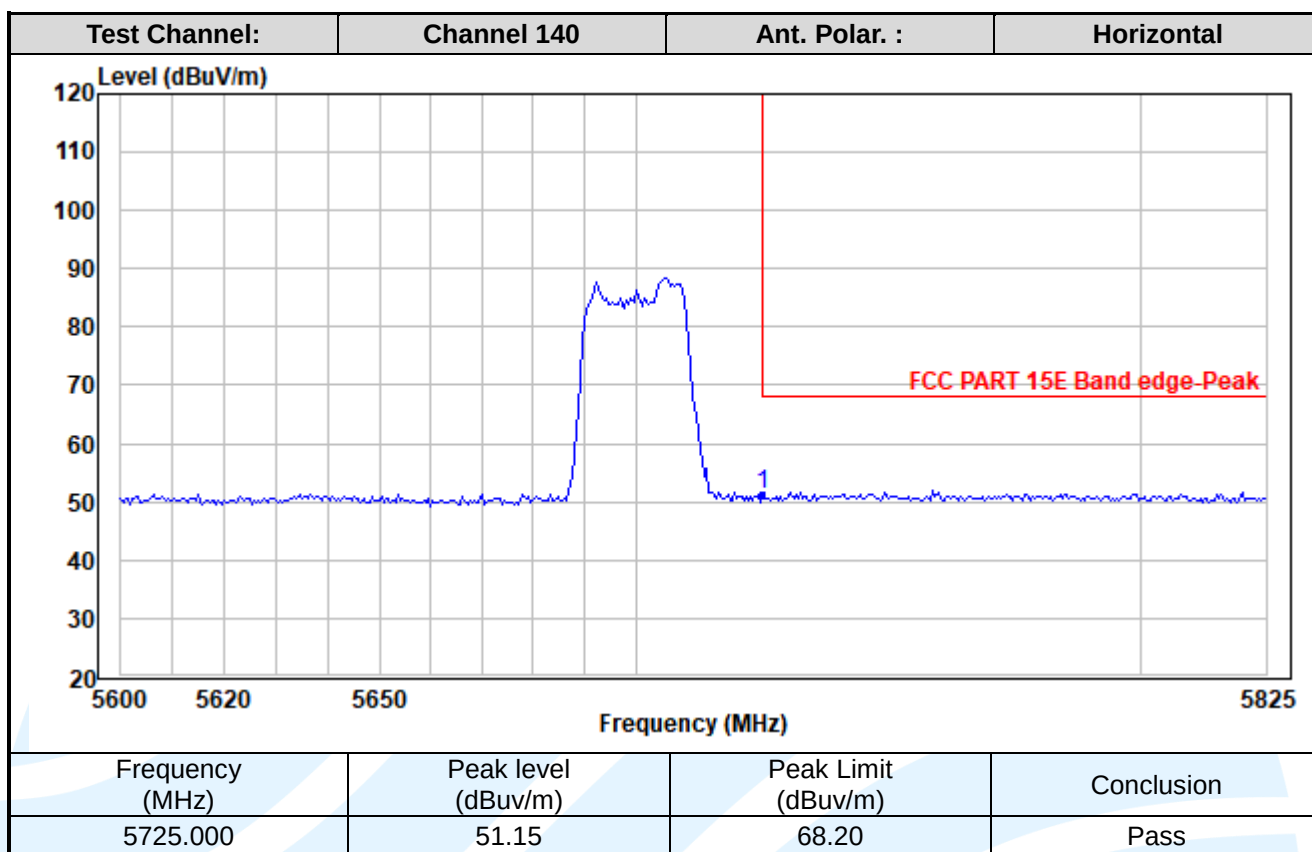
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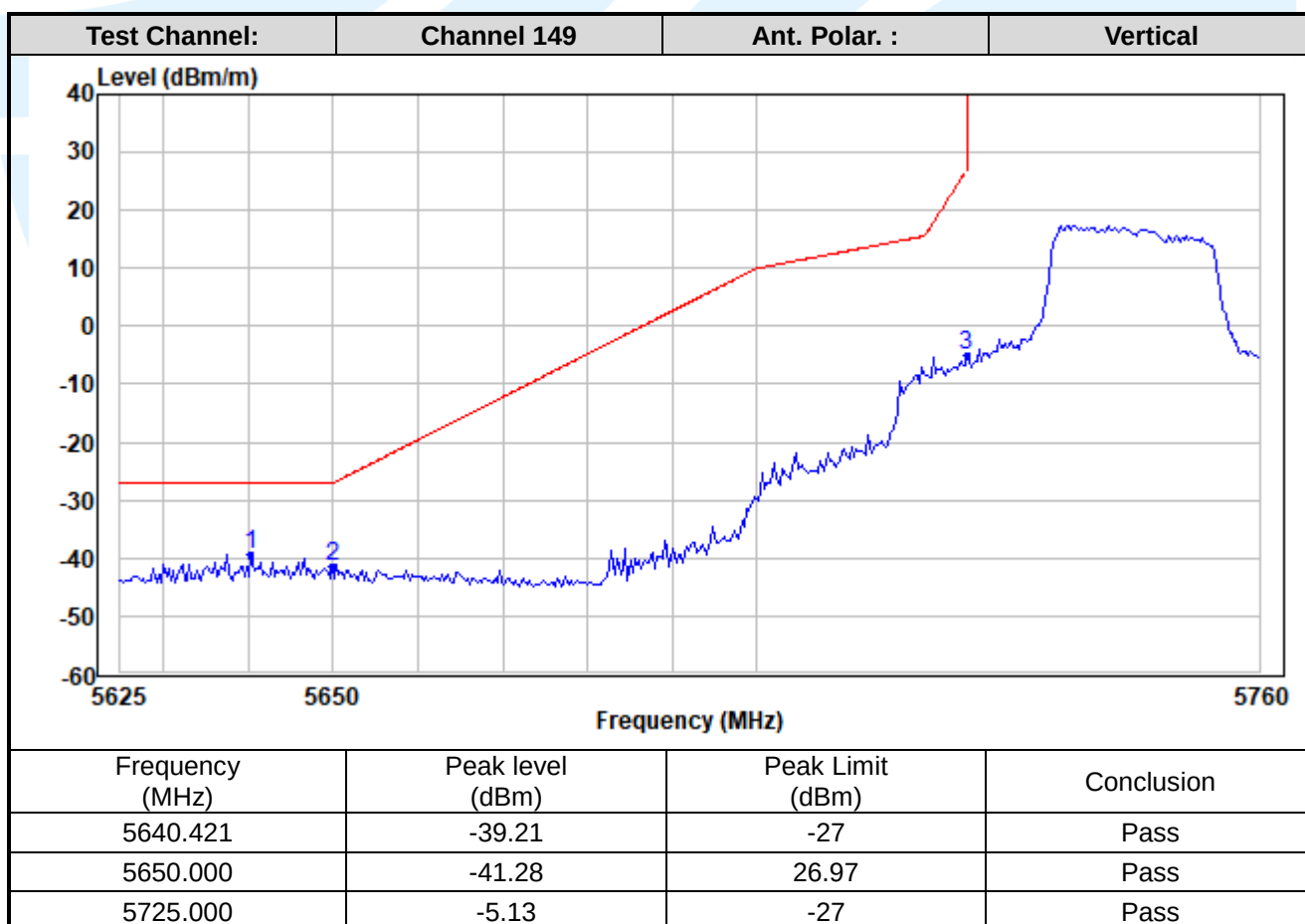
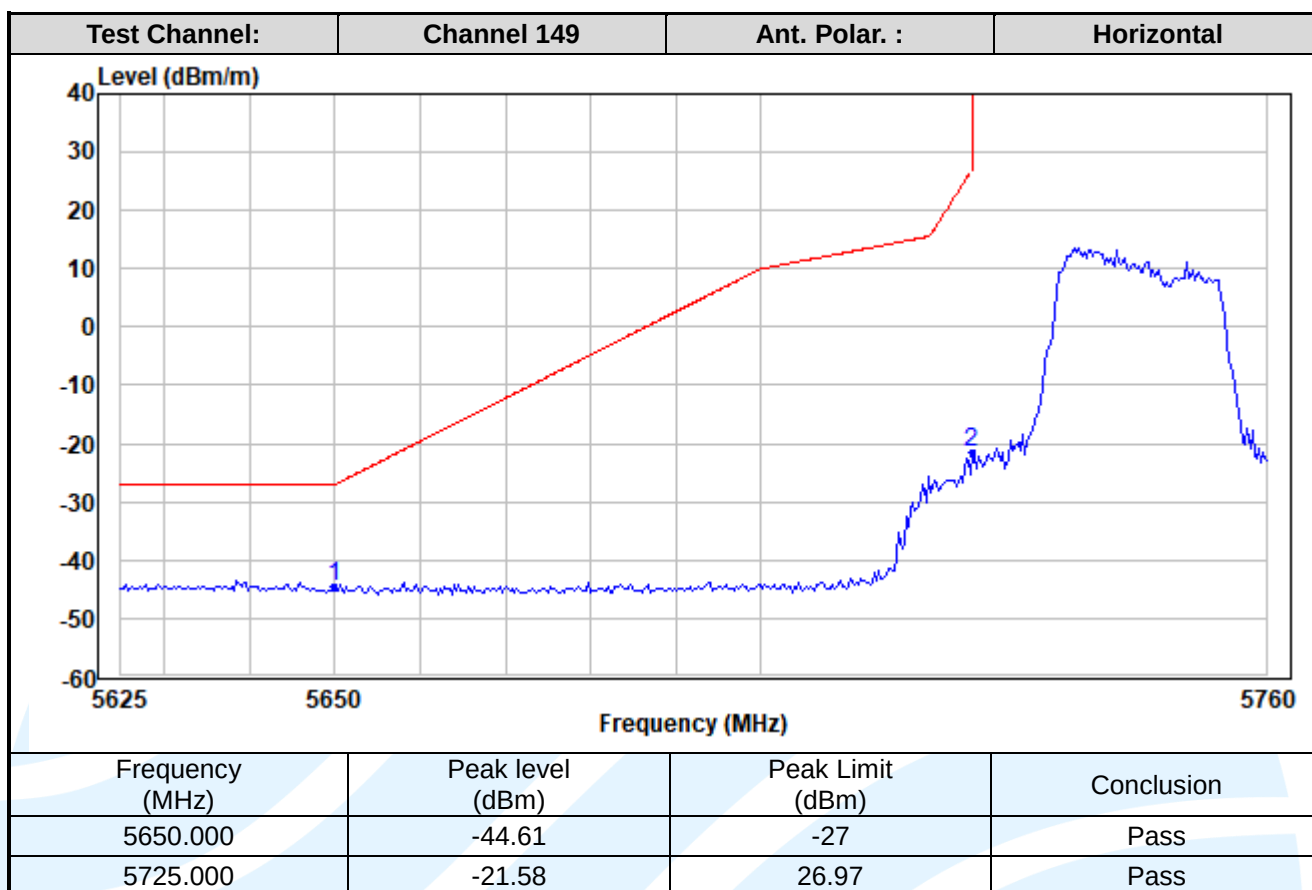
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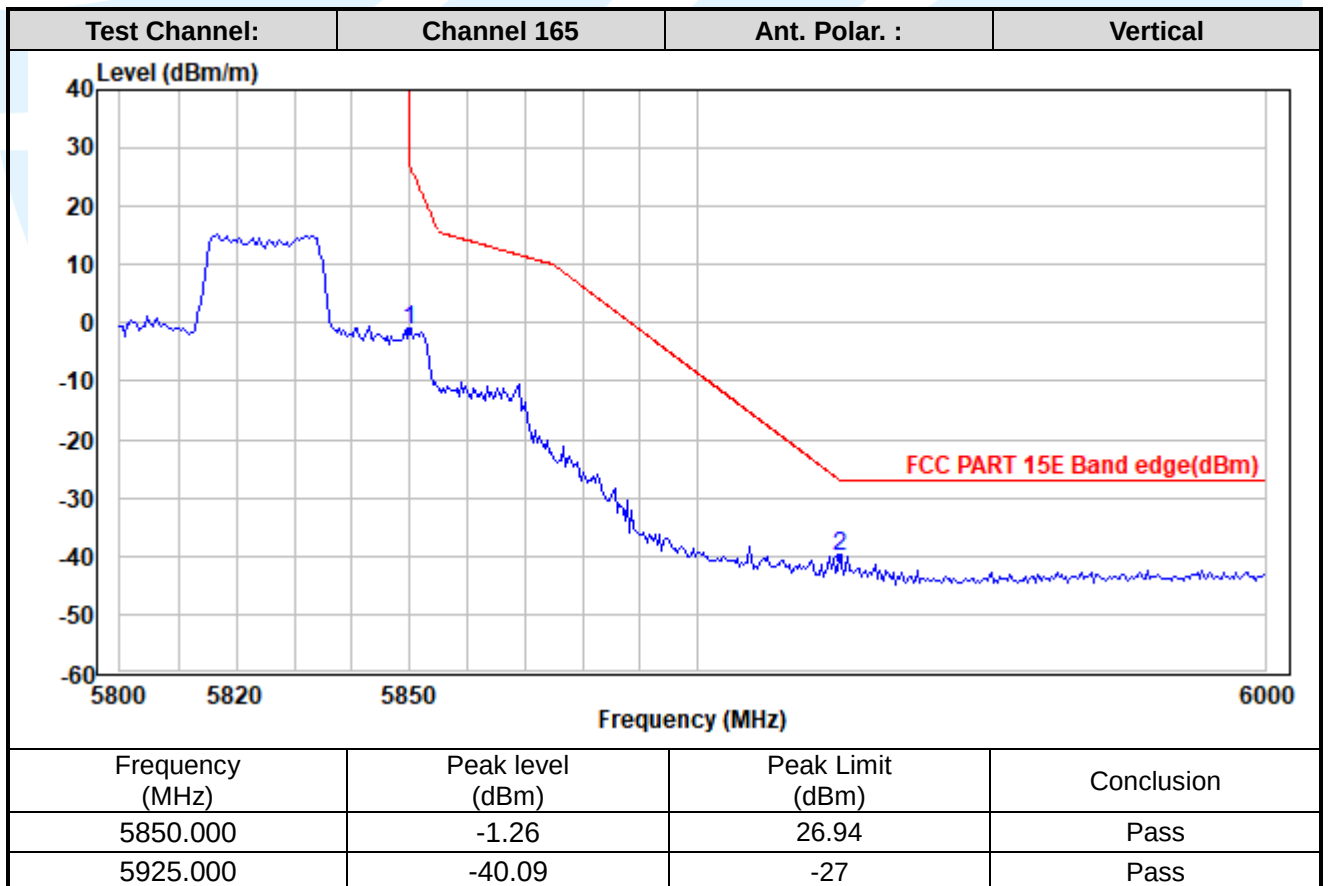
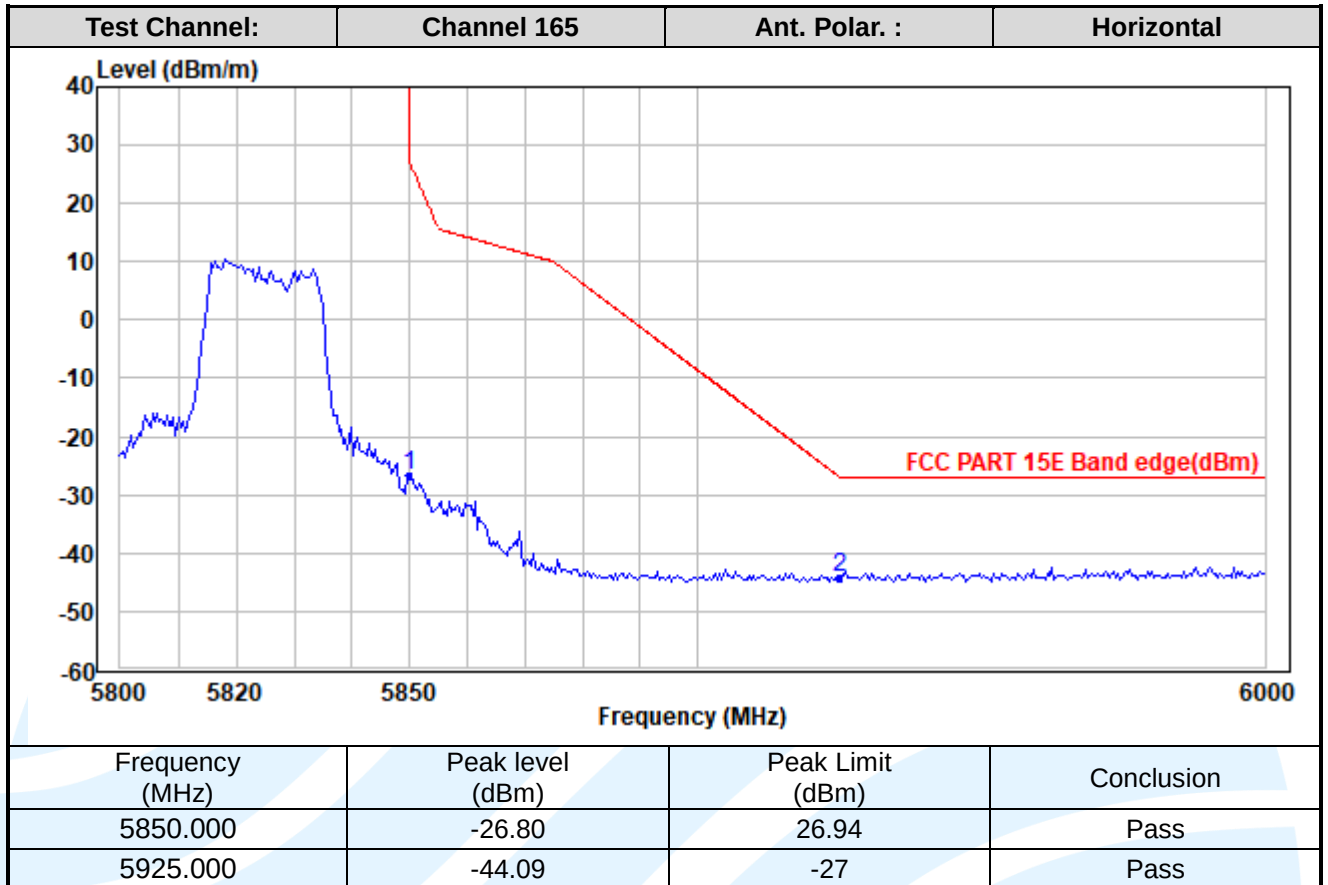
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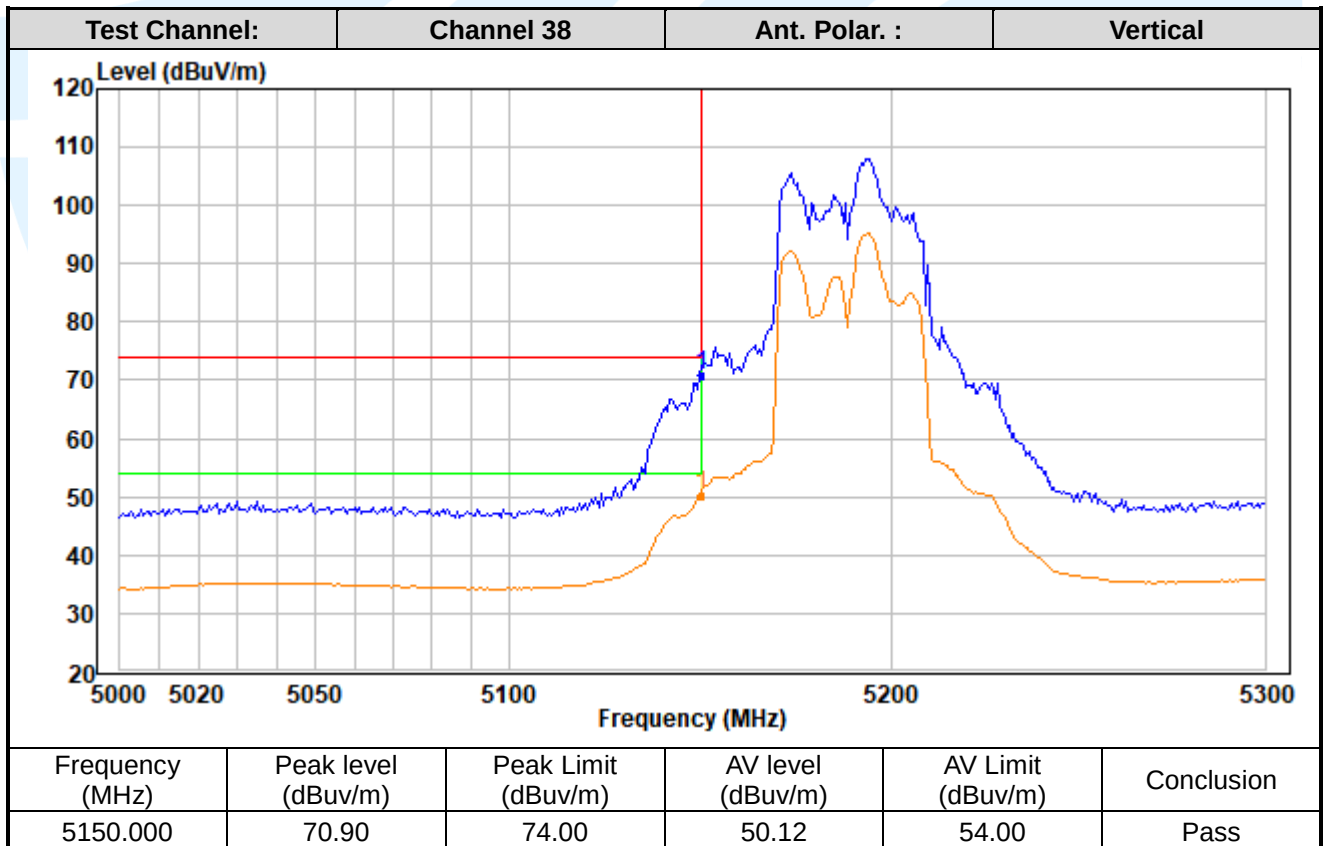
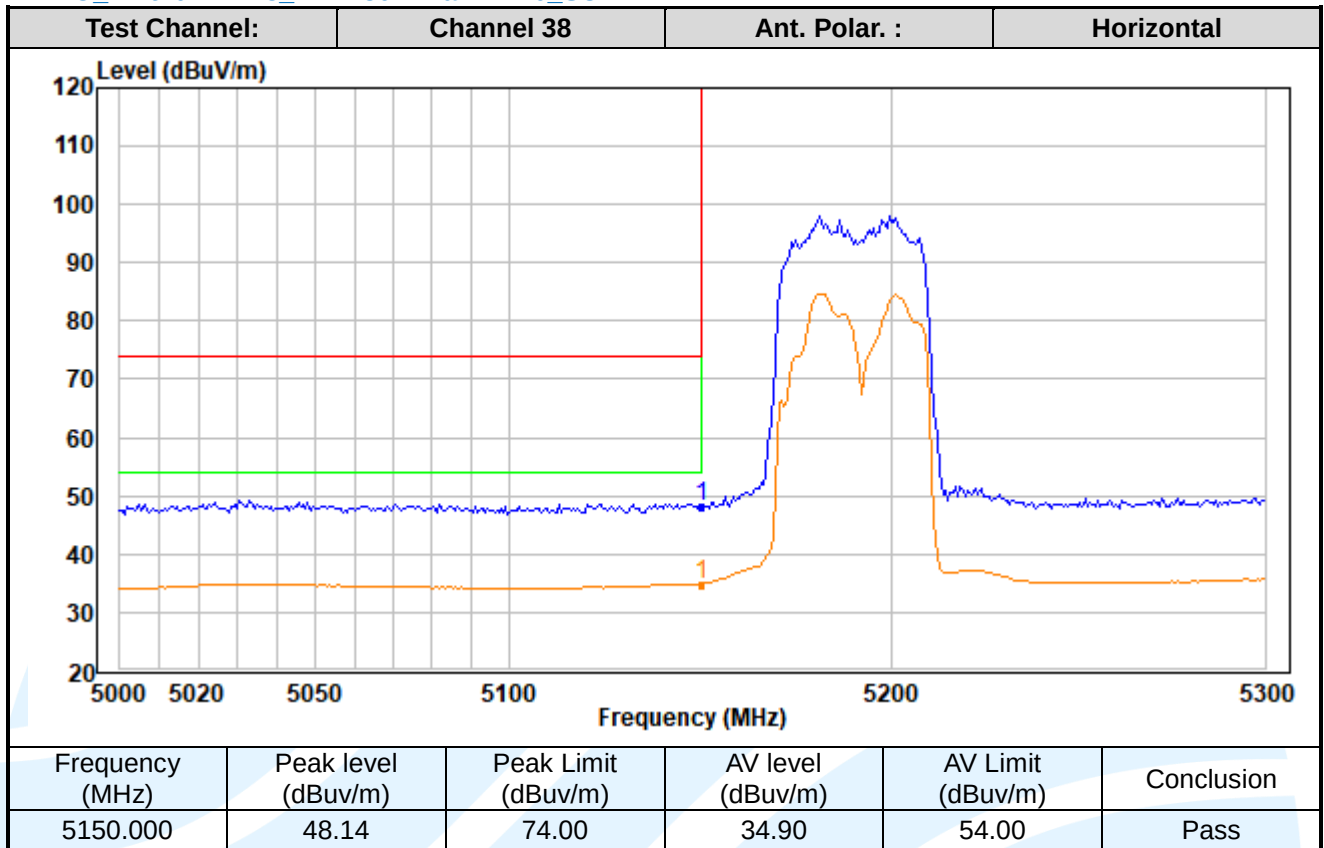
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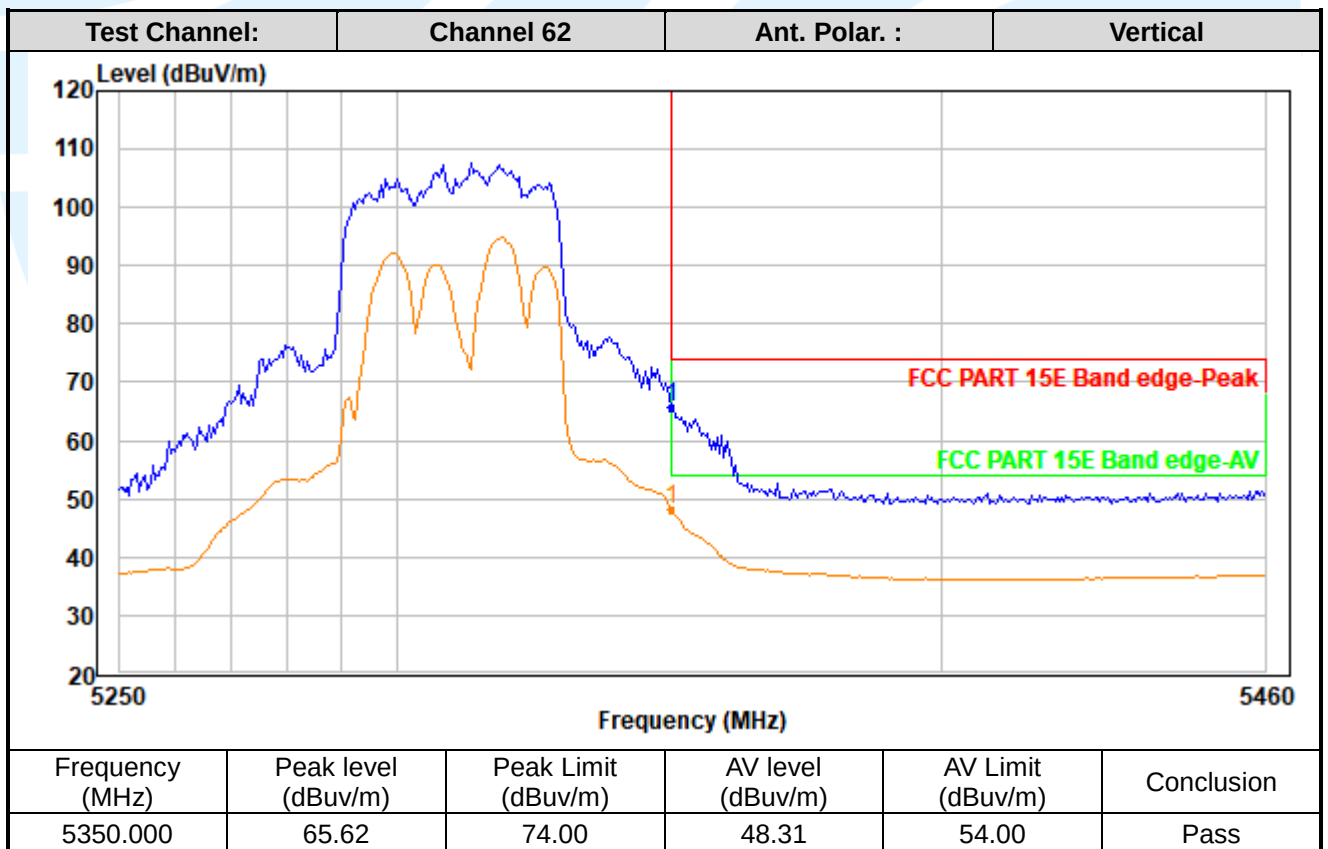
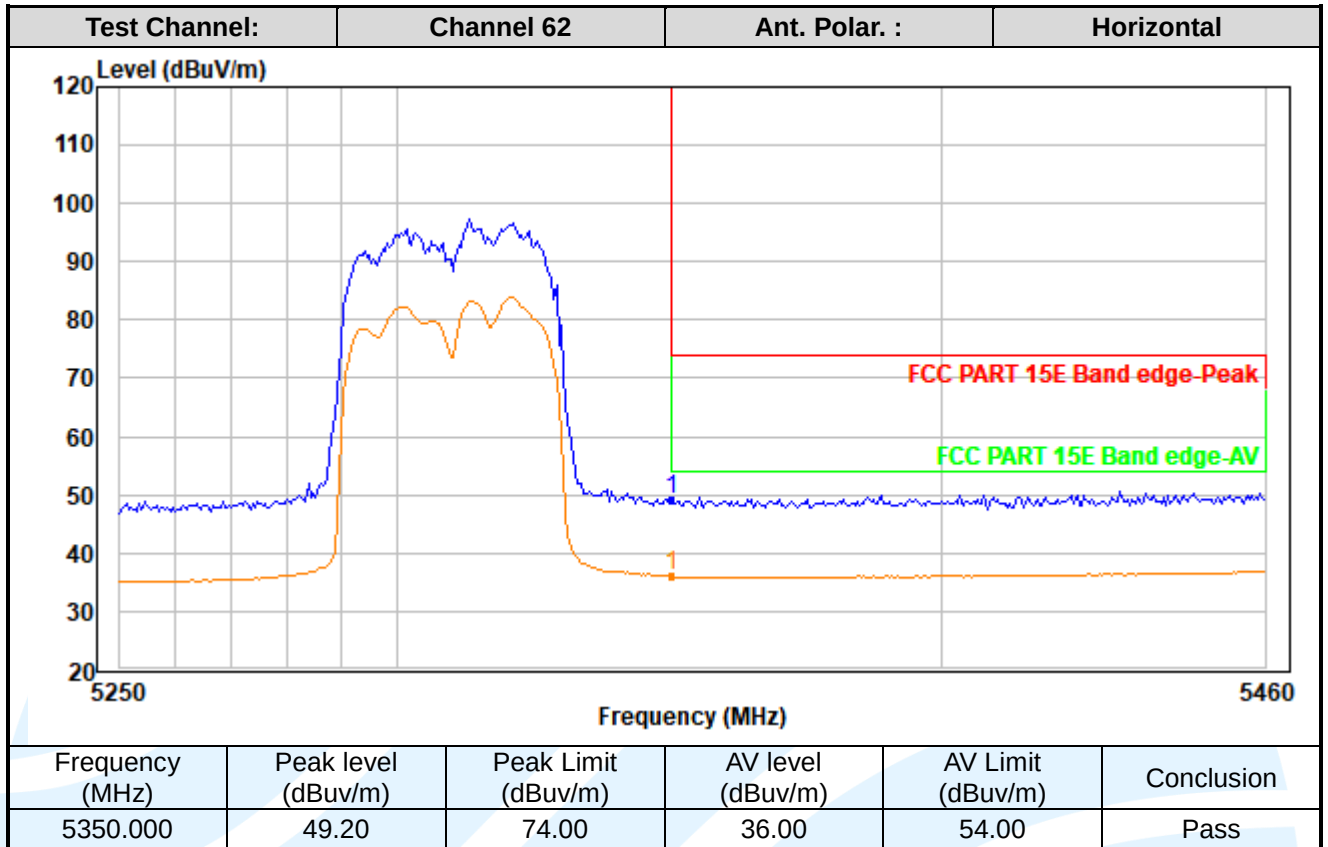
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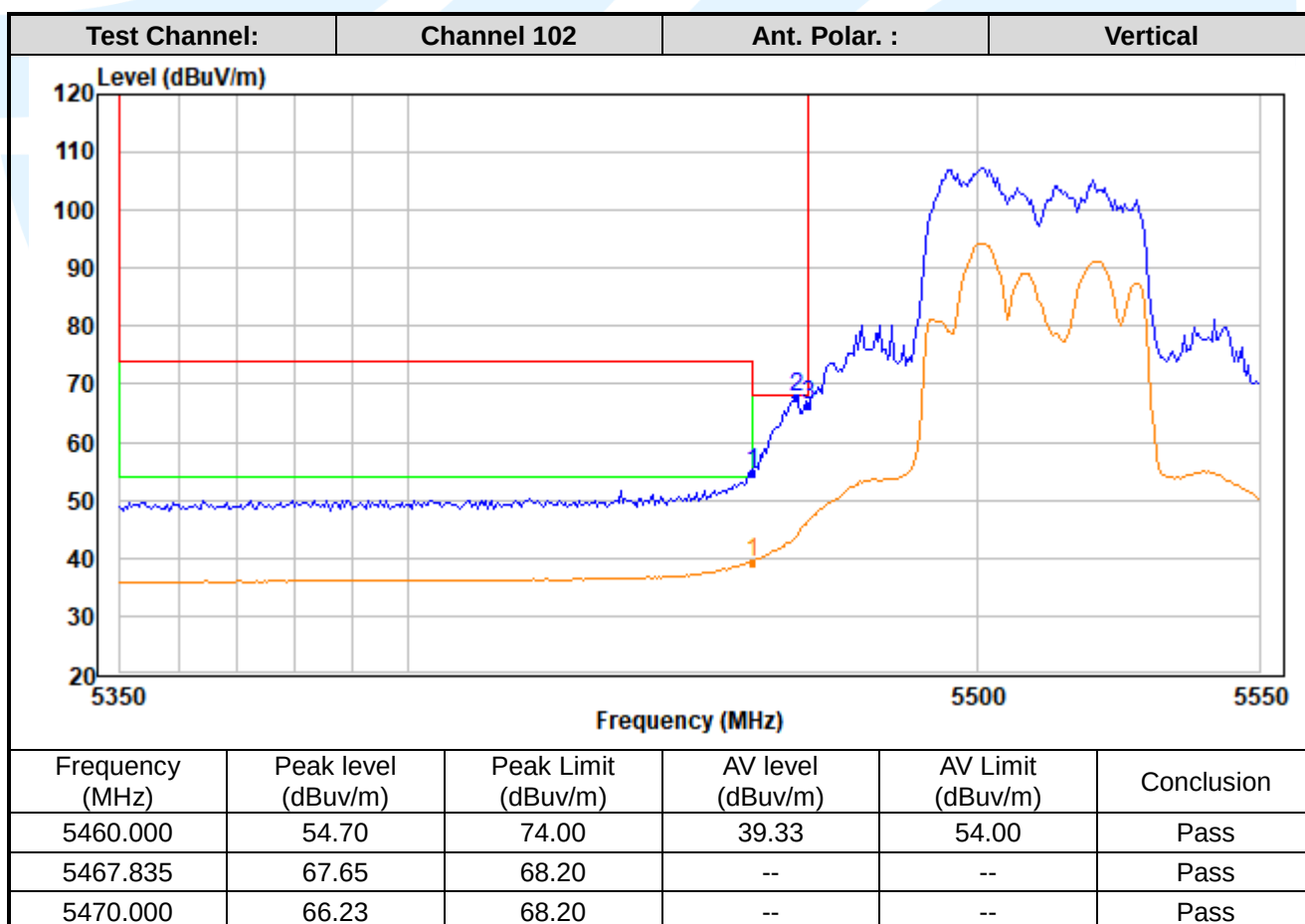
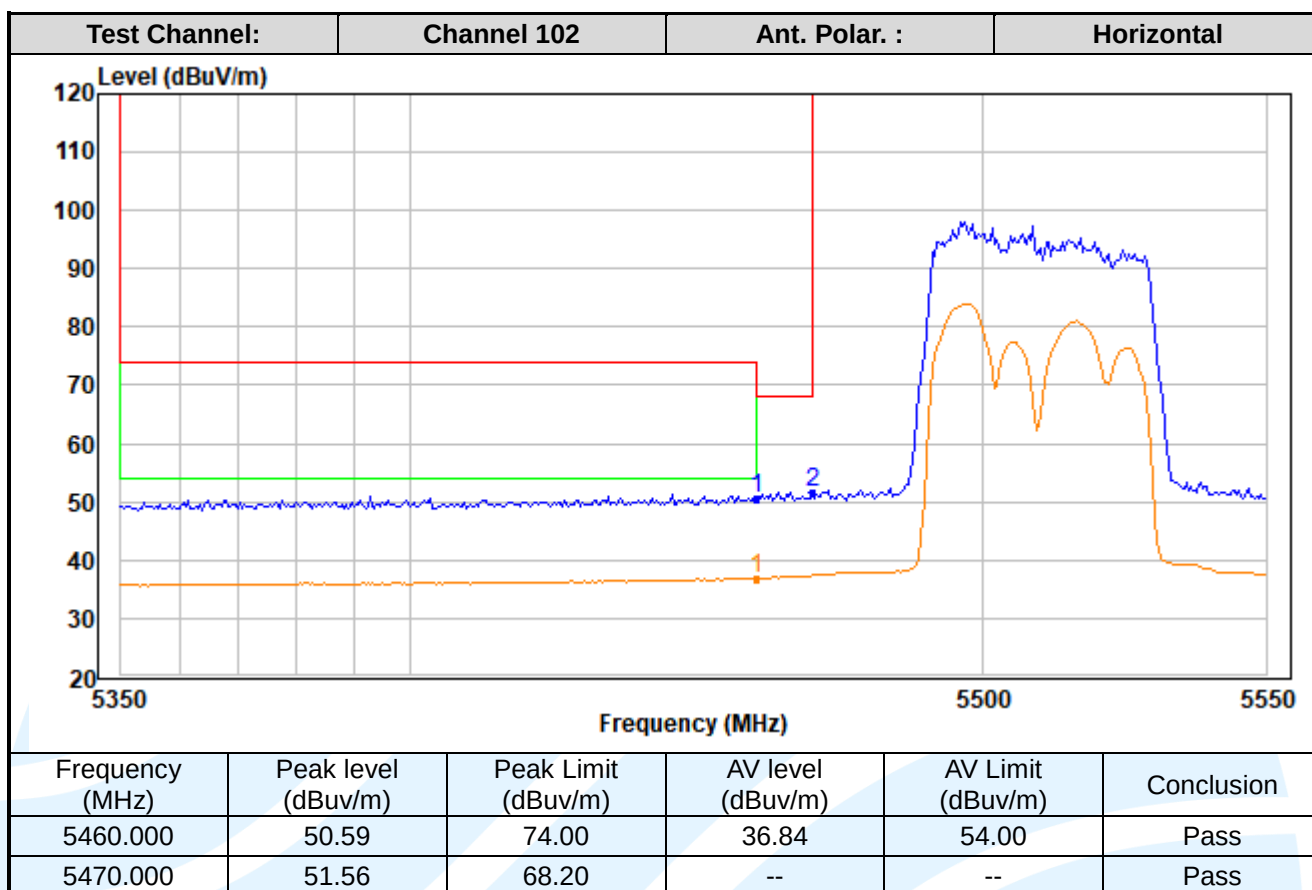
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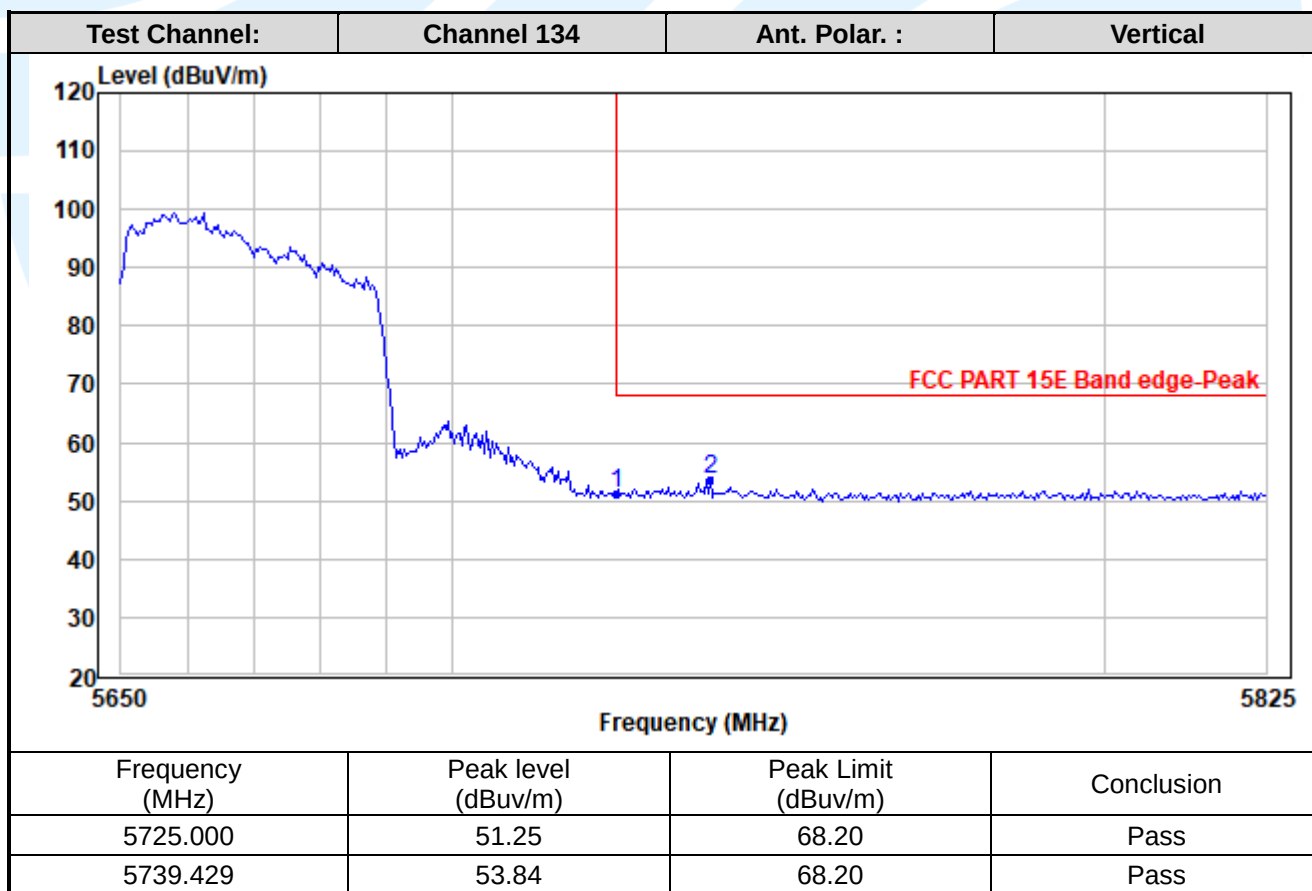
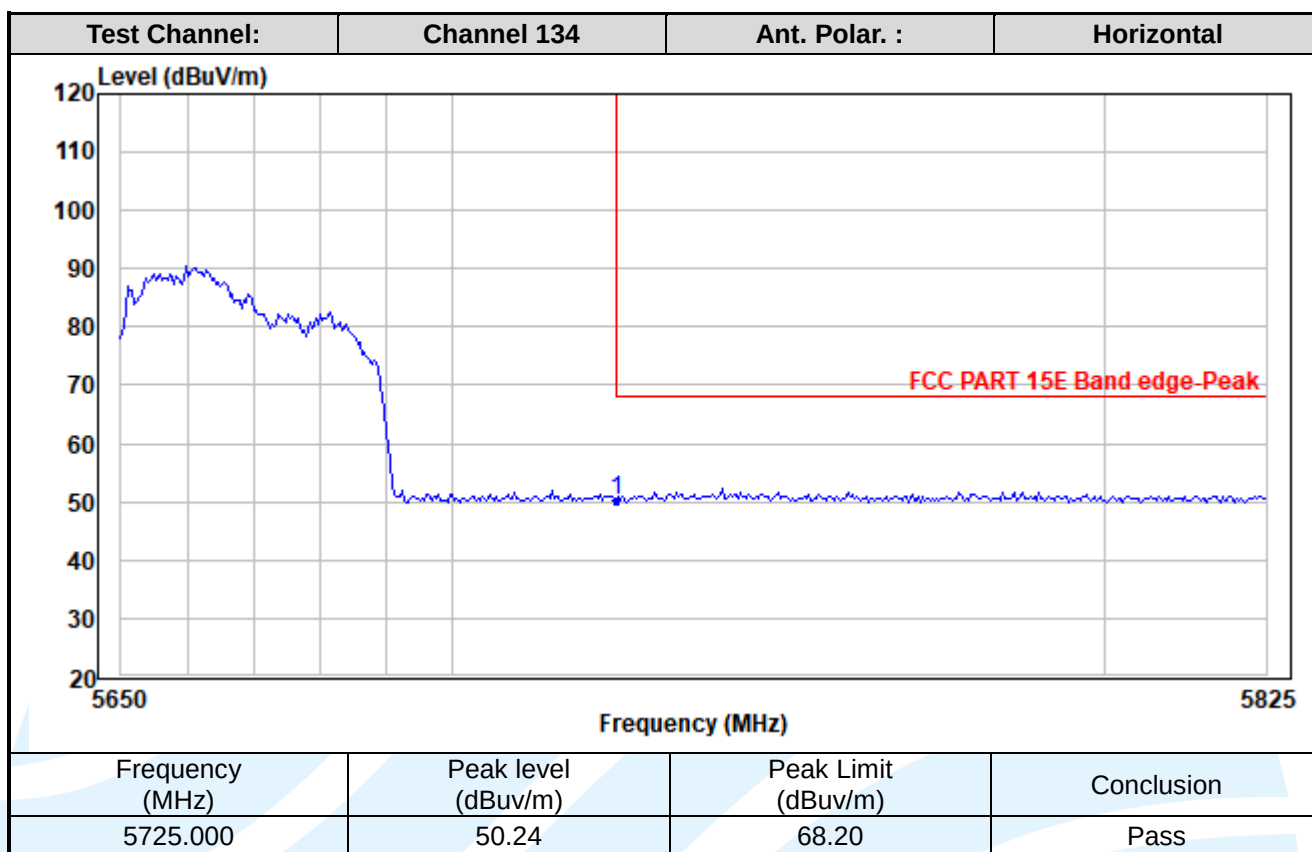
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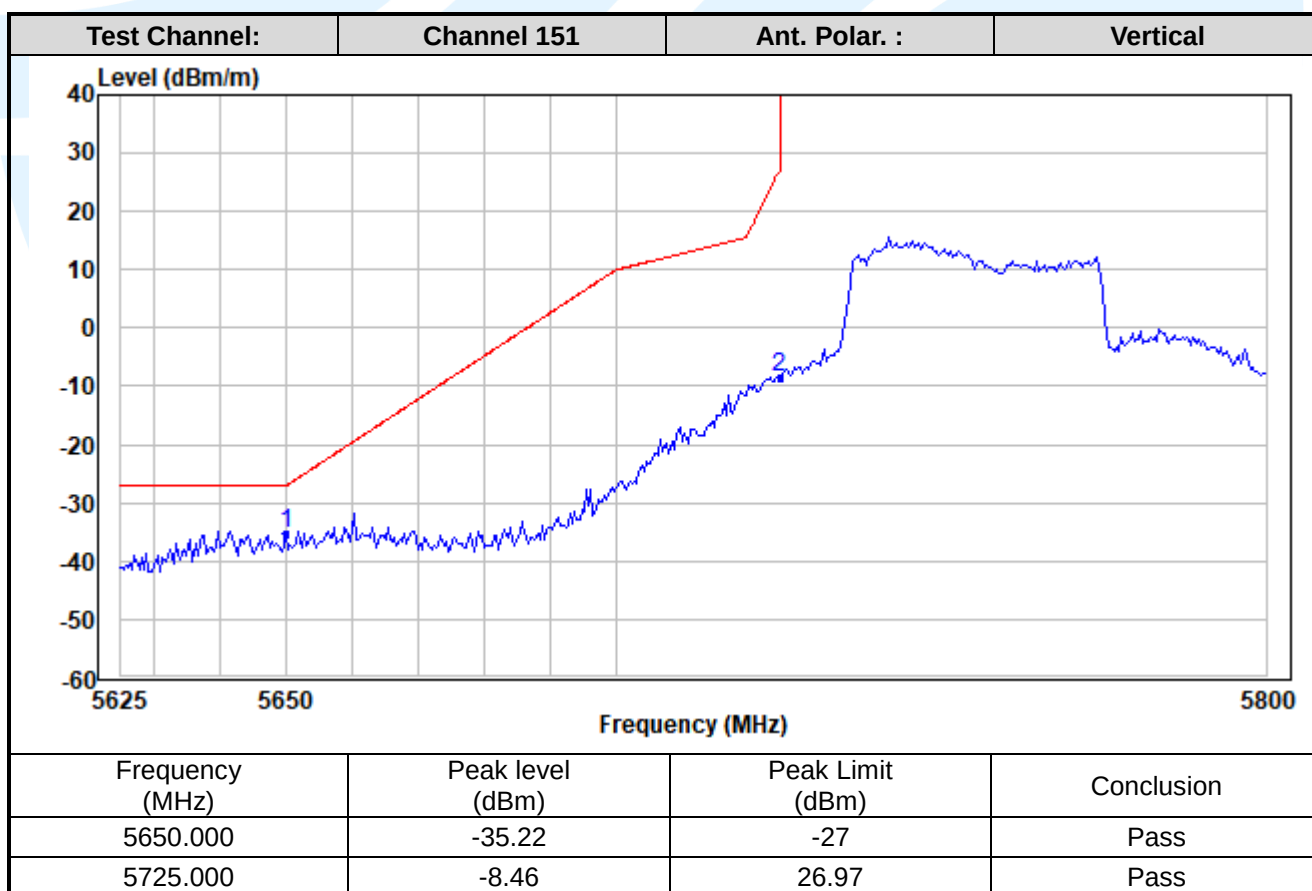
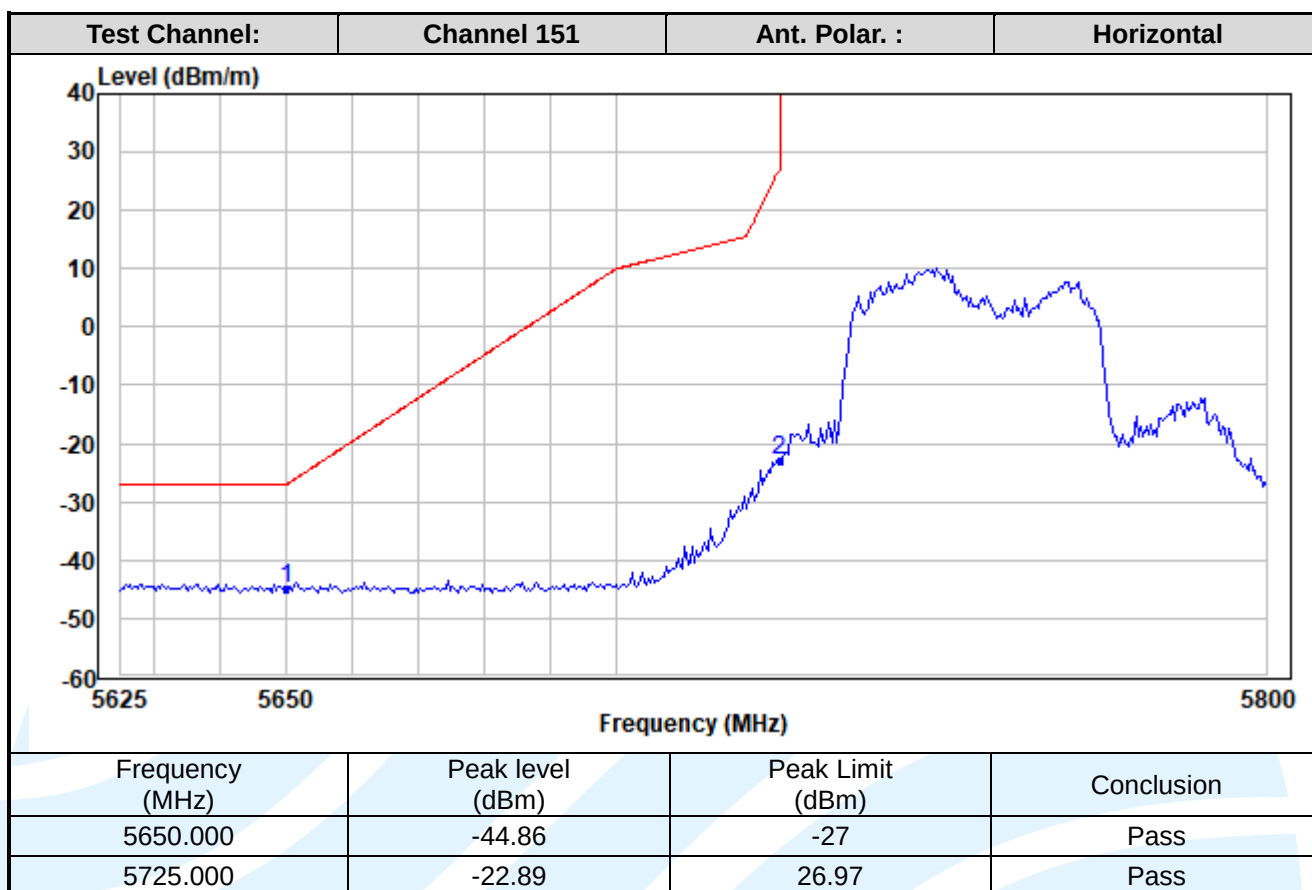
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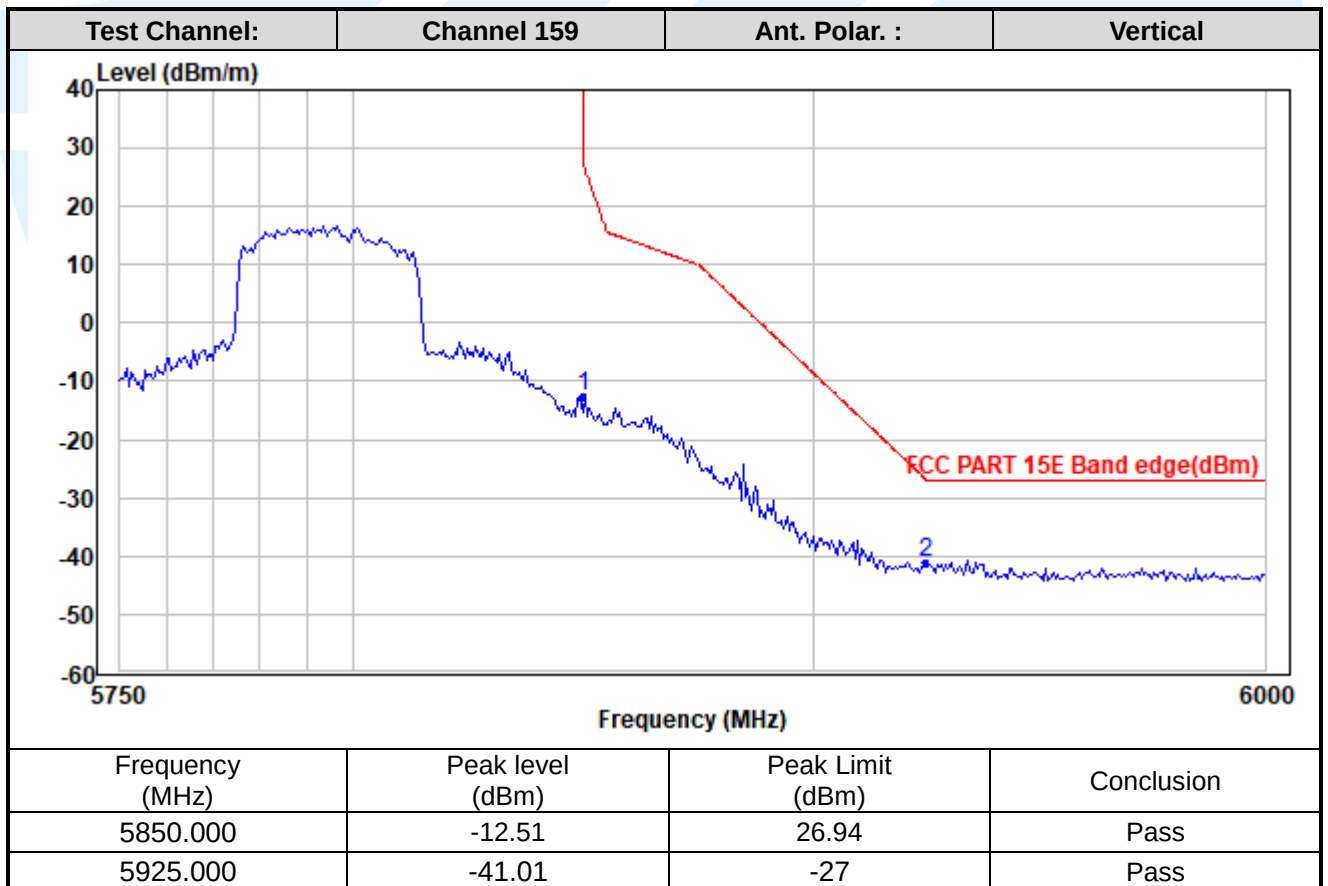
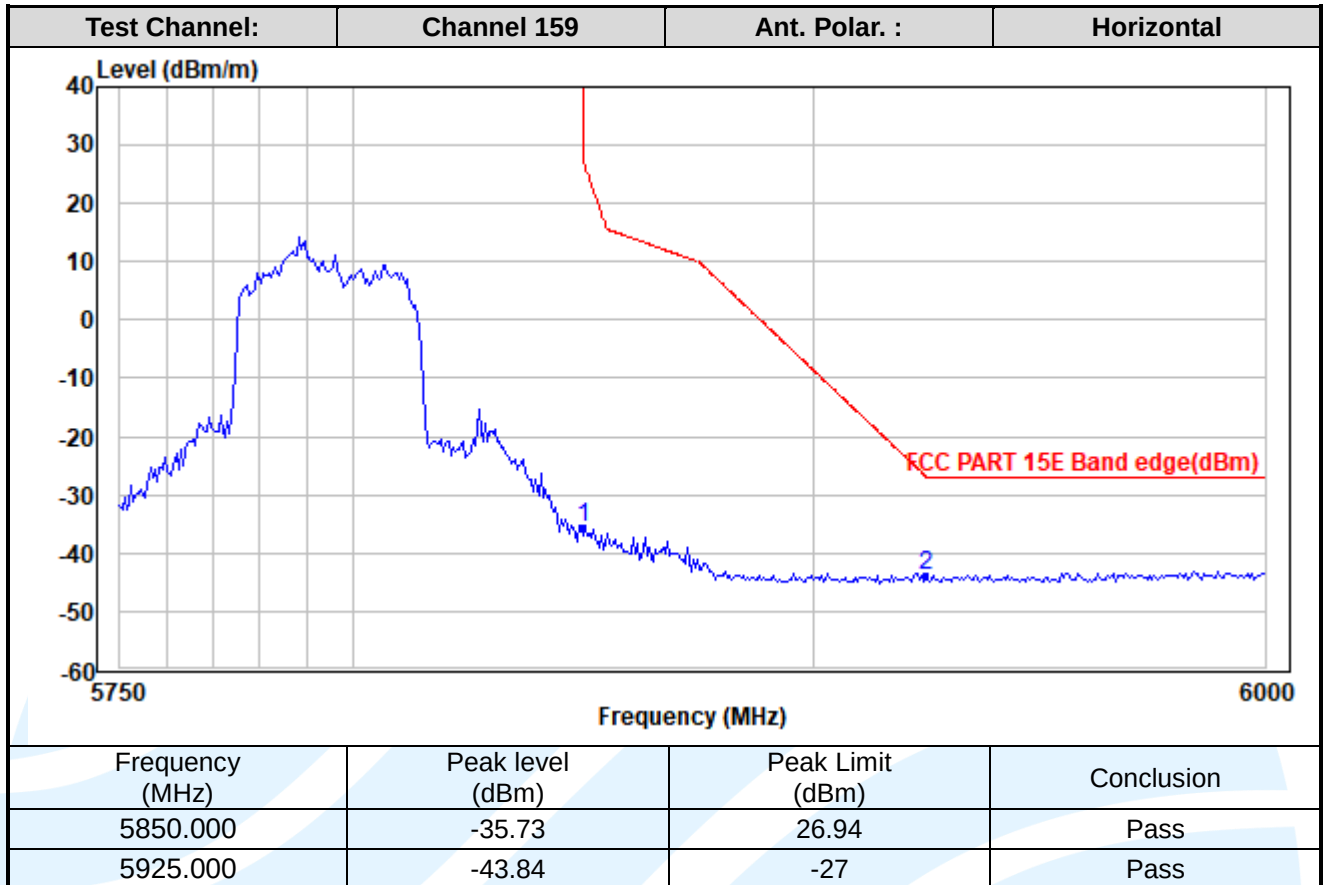
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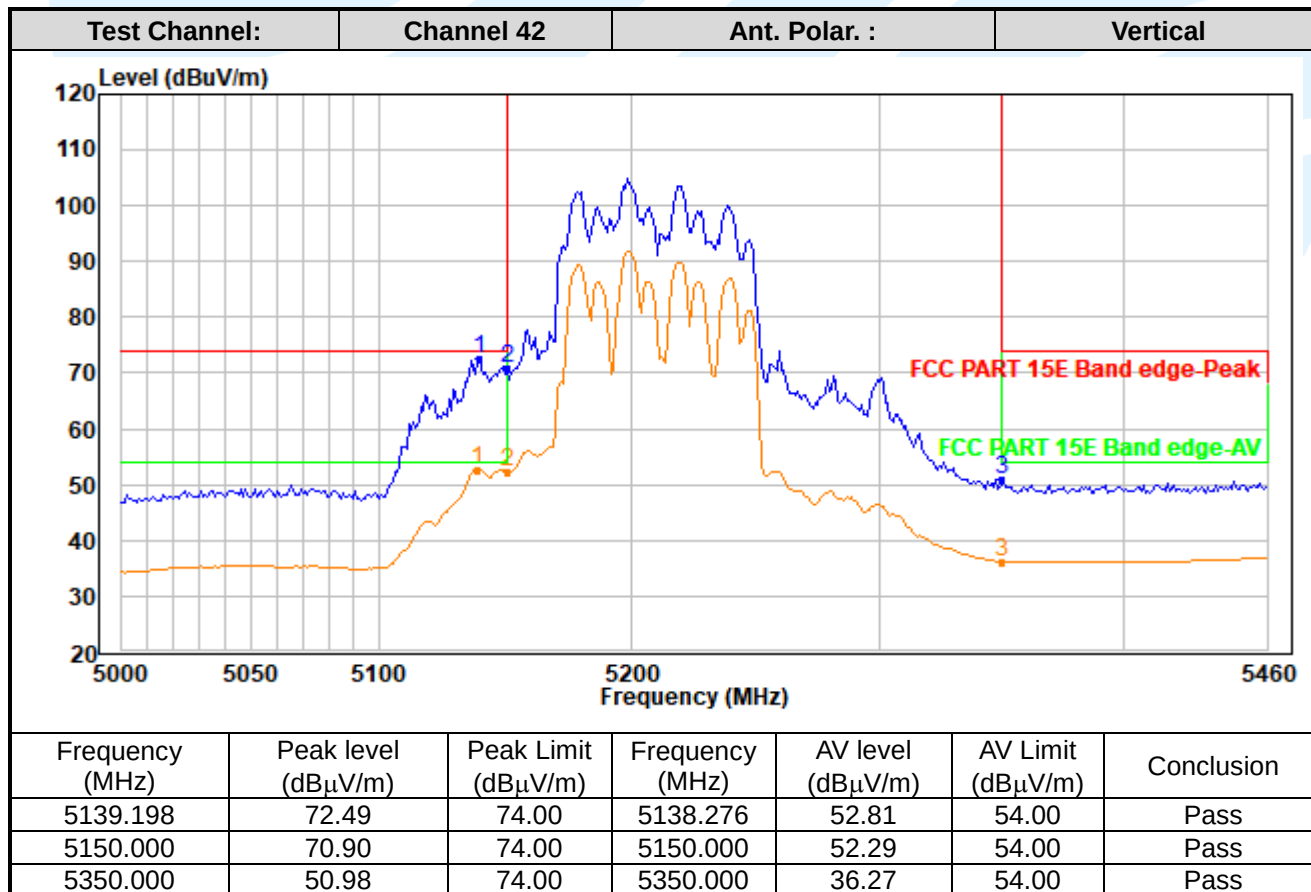
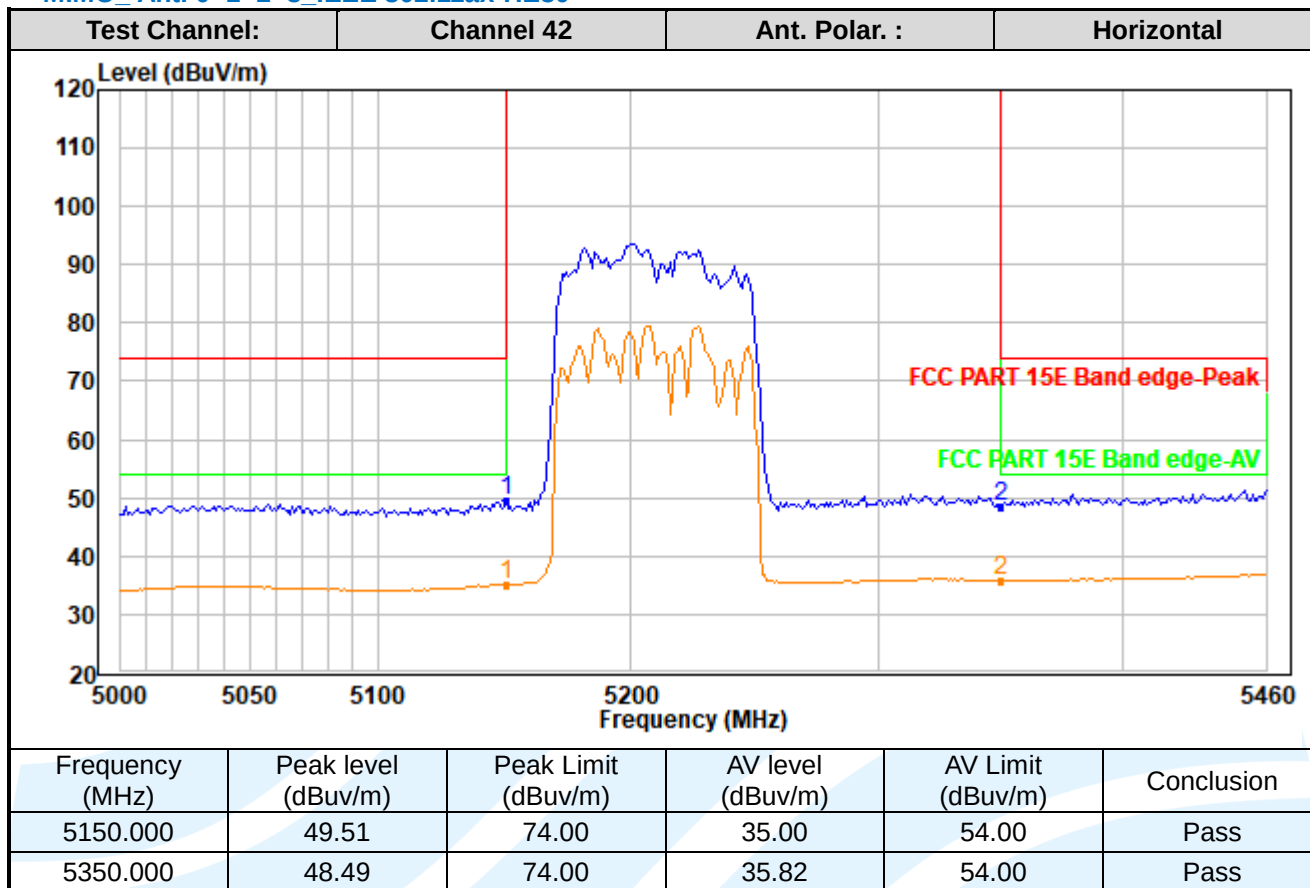
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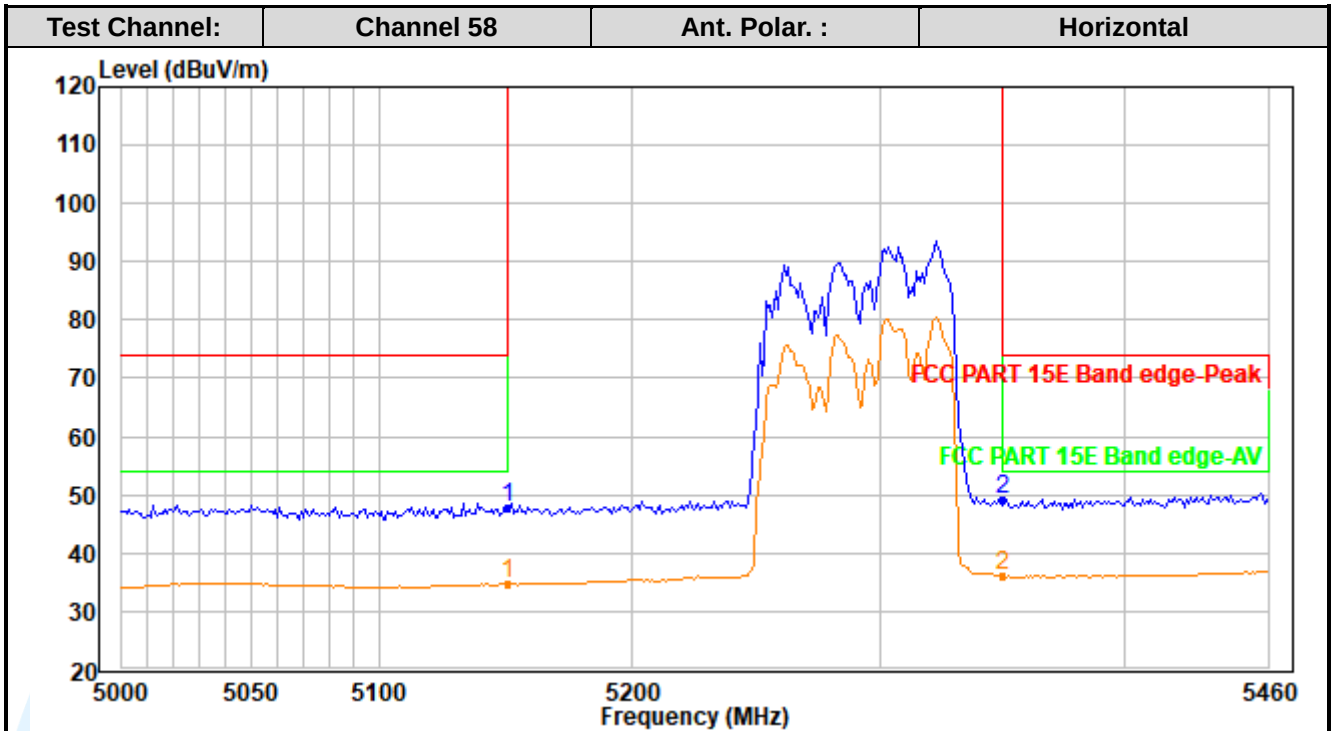
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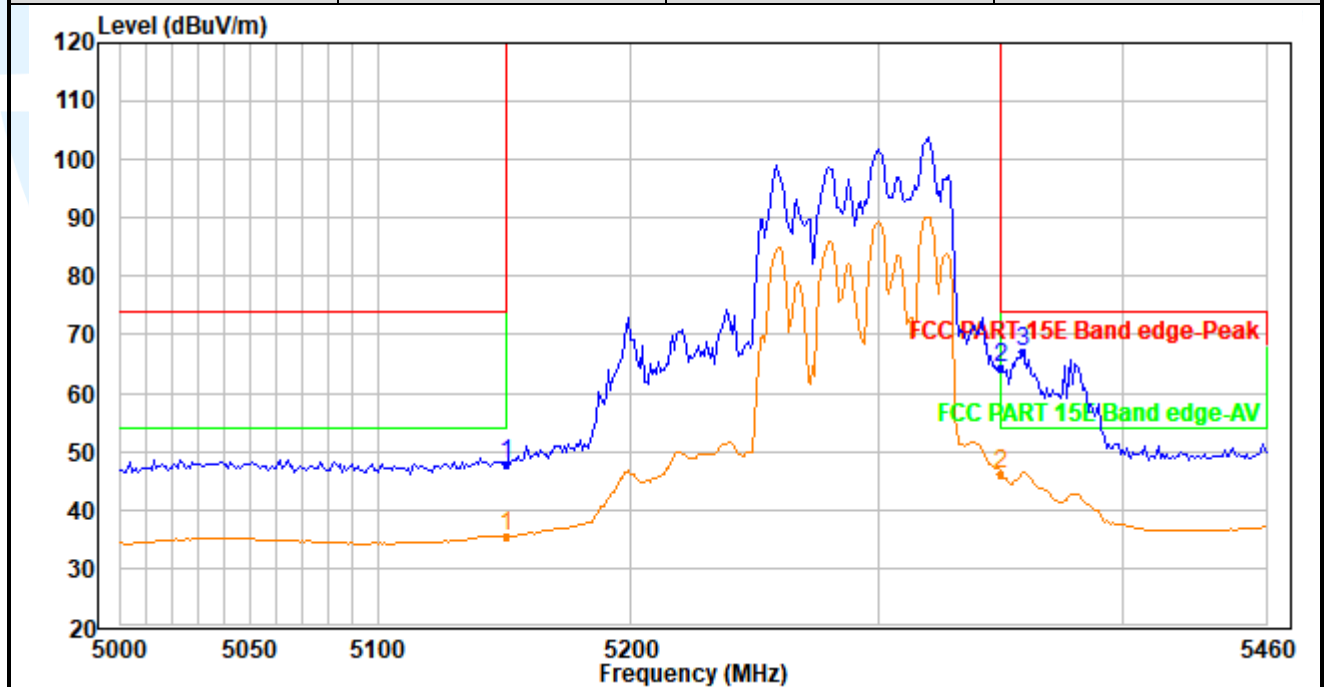
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Test Channel:	Channel 58	Ant. Polar. :	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	47.92	74.00	35.46	54.00	Pass
5350.000	64.49	74.00	45.23	54.00	Pass
5358.597	67.03	74.00	--	54.00	Pass

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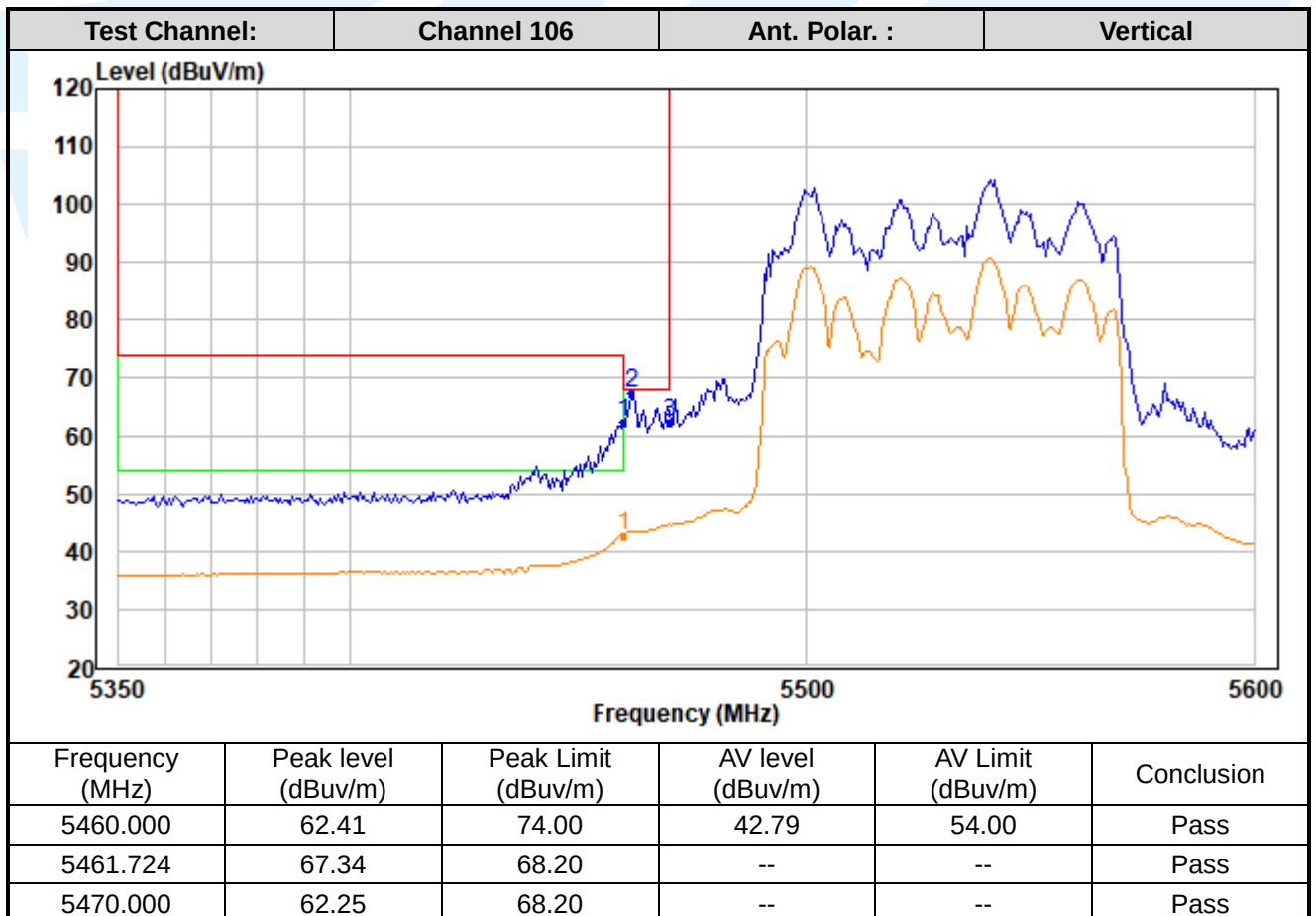
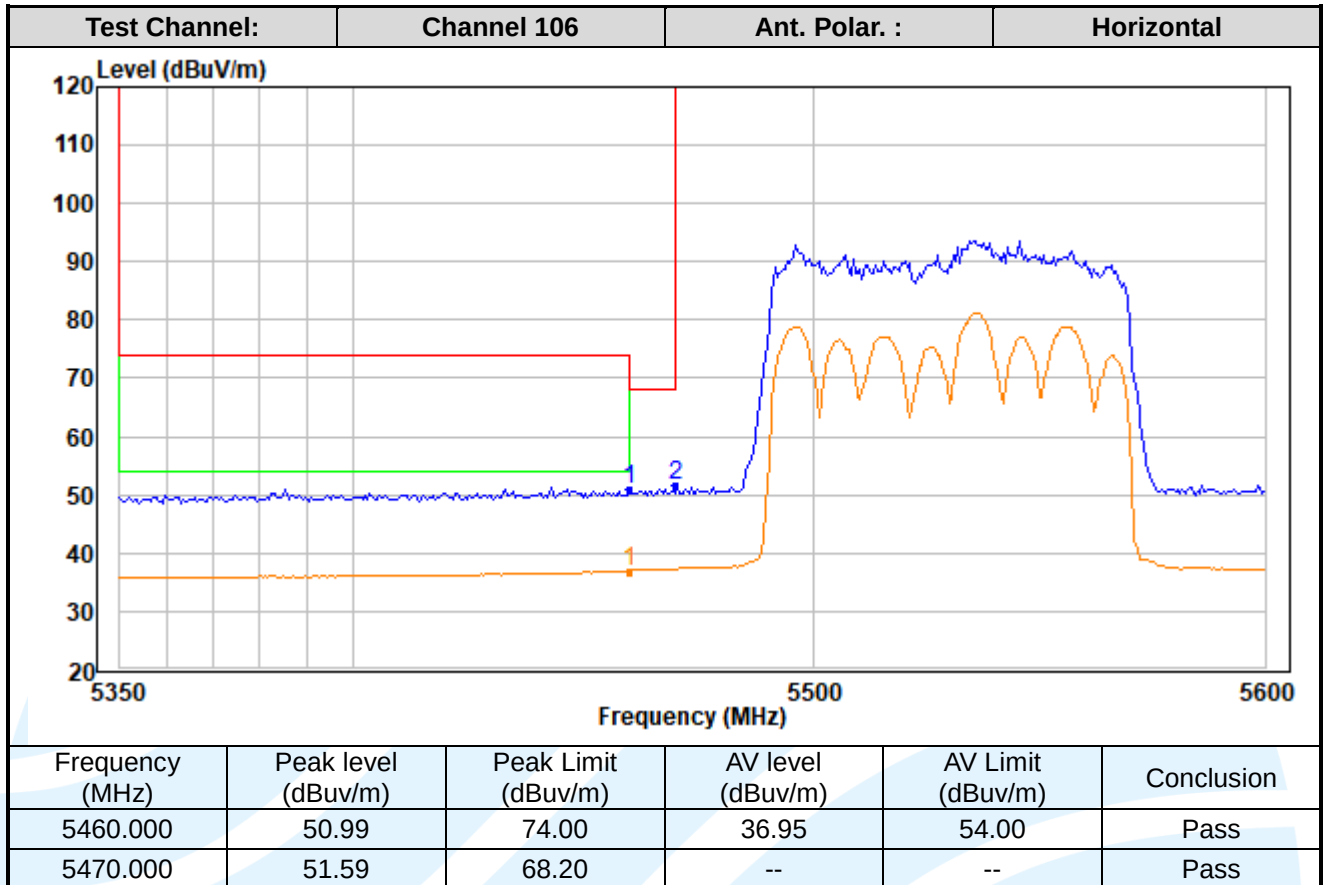
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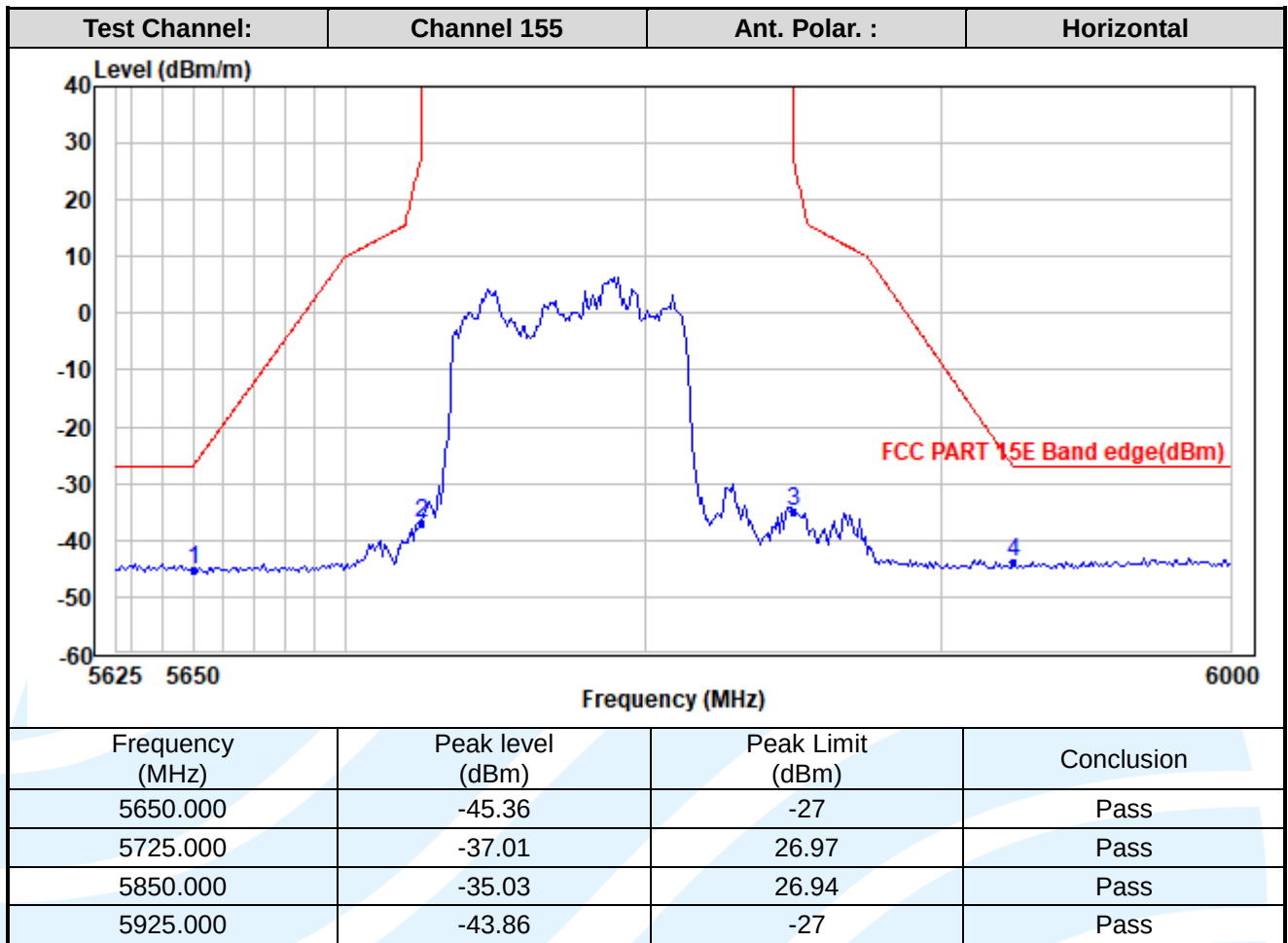
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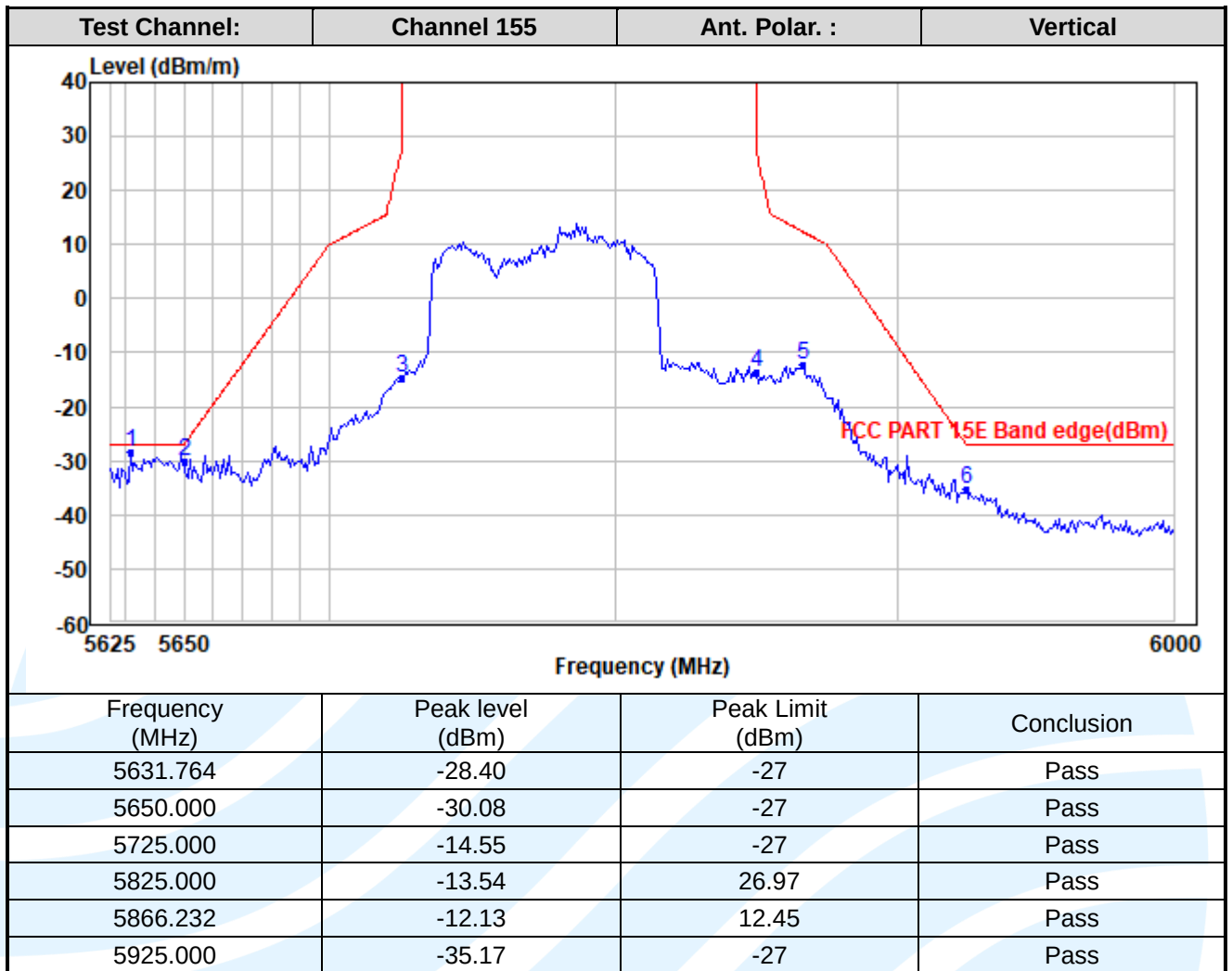
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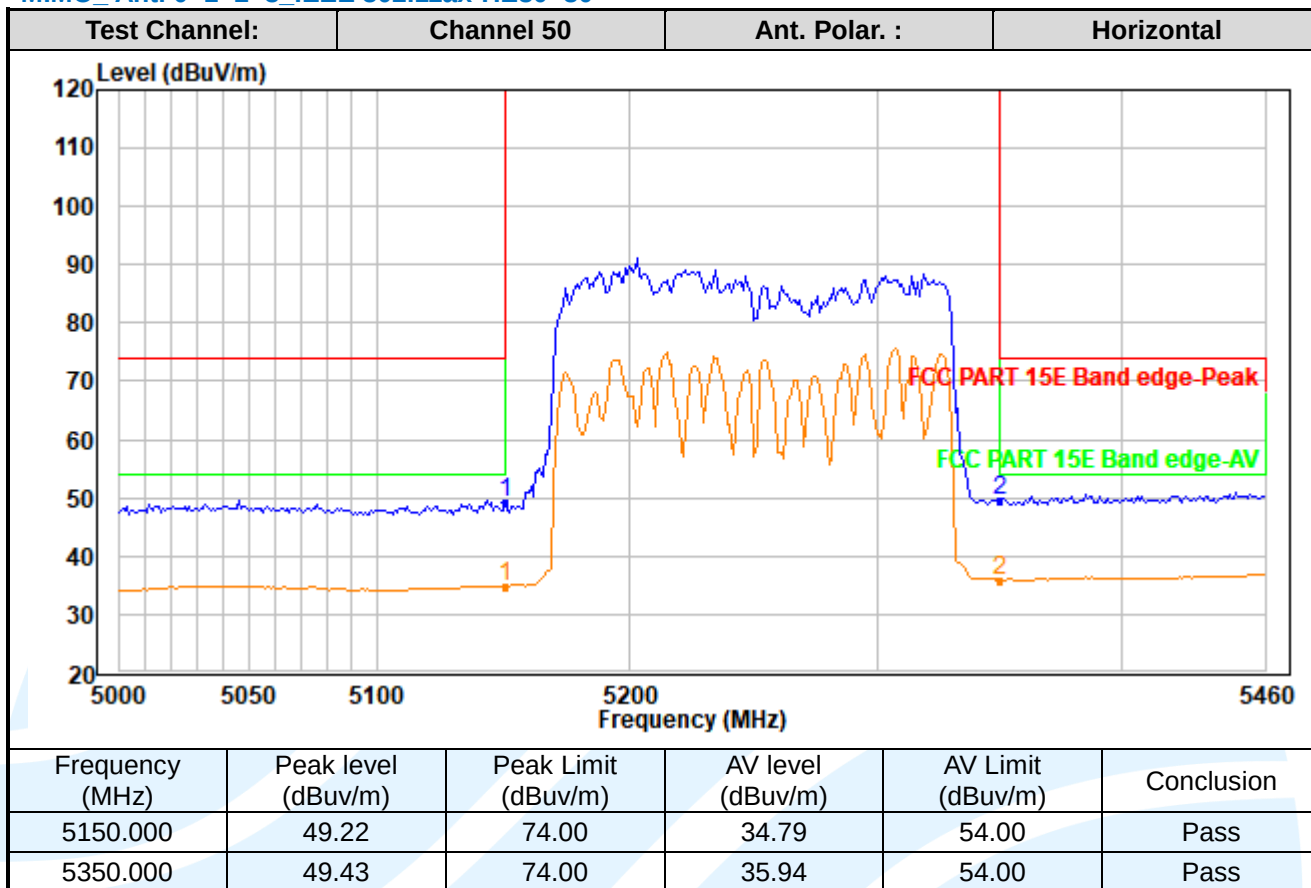
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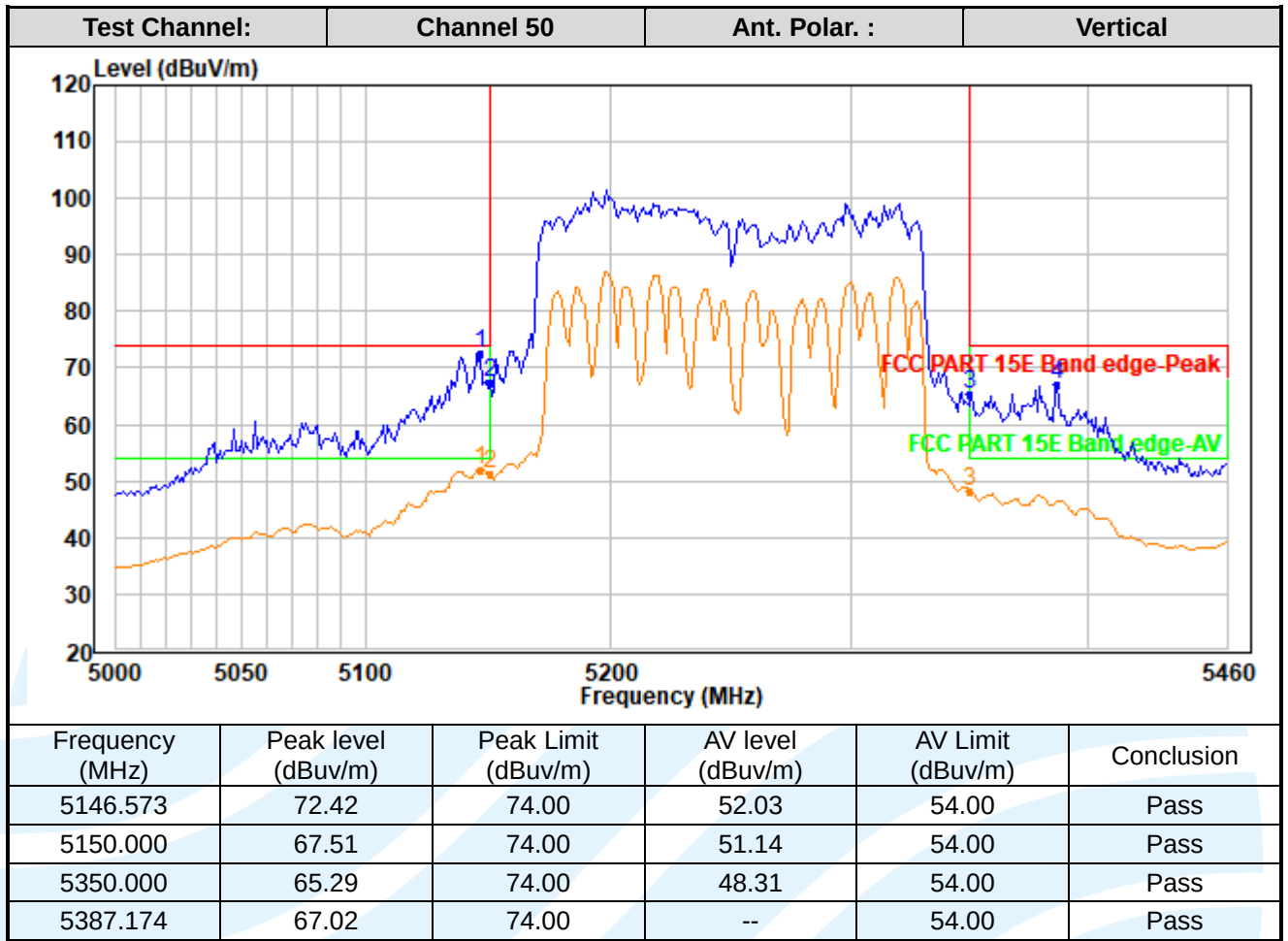
Tel: +86-755-28230888

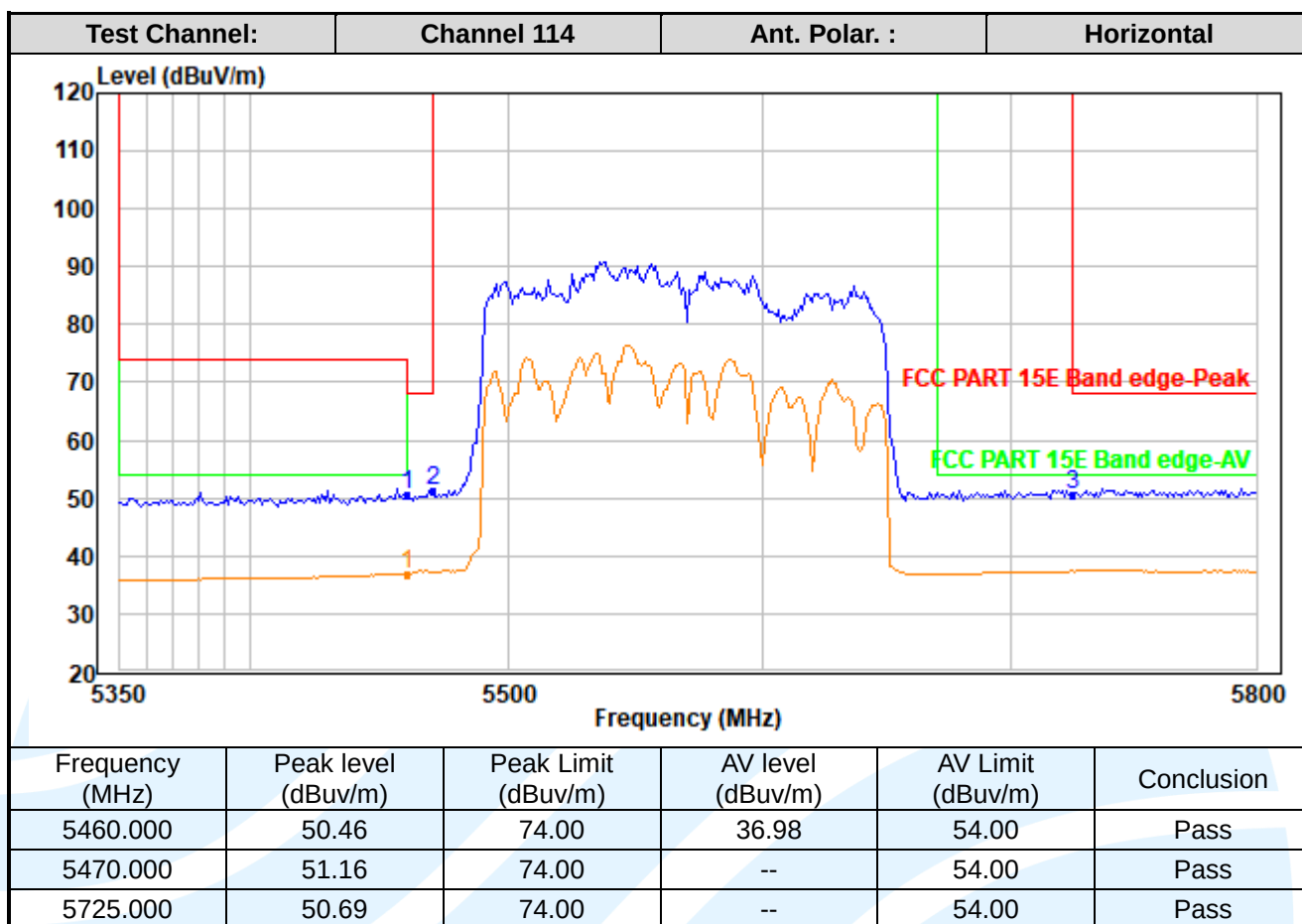
Fax: +86-755-28230886

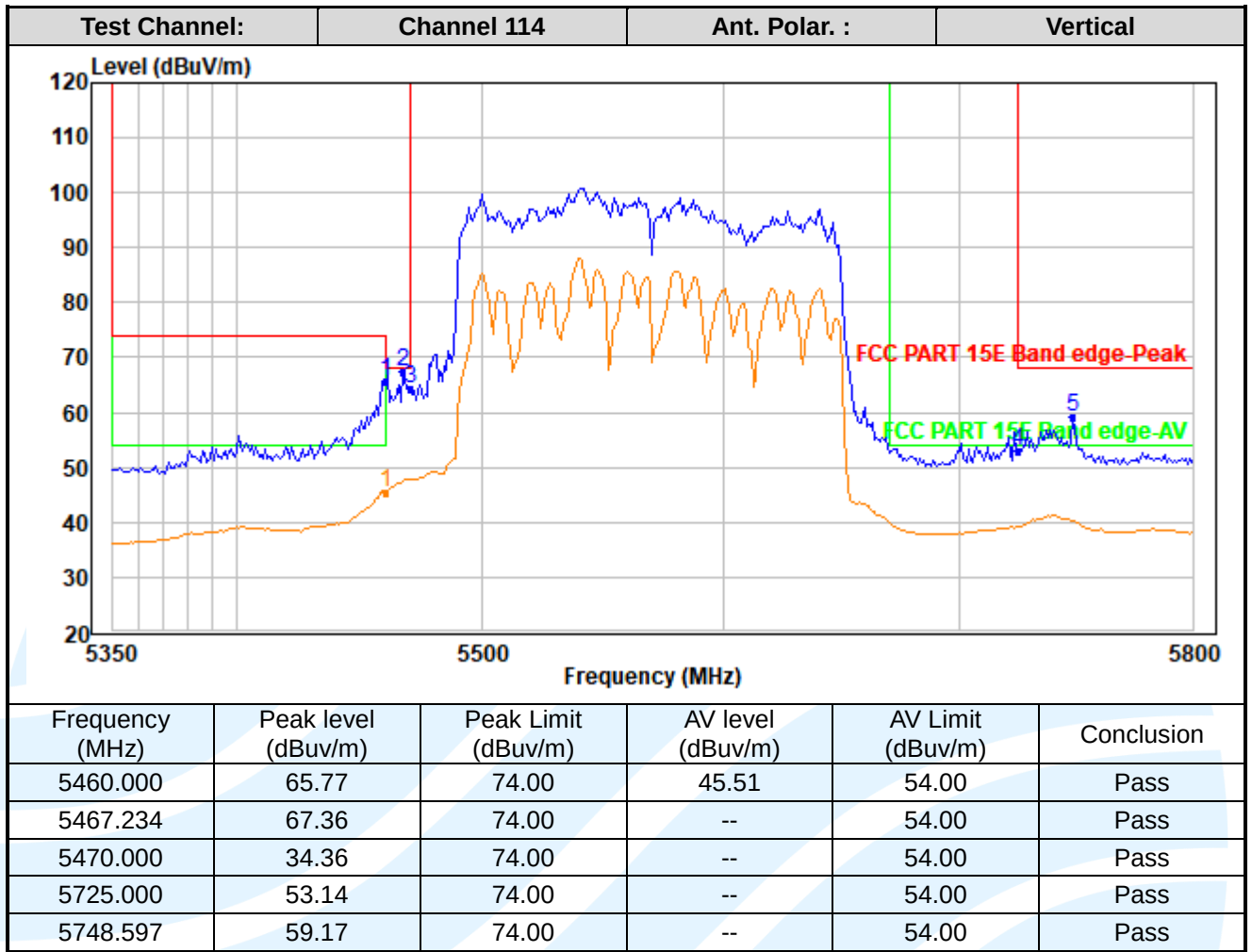
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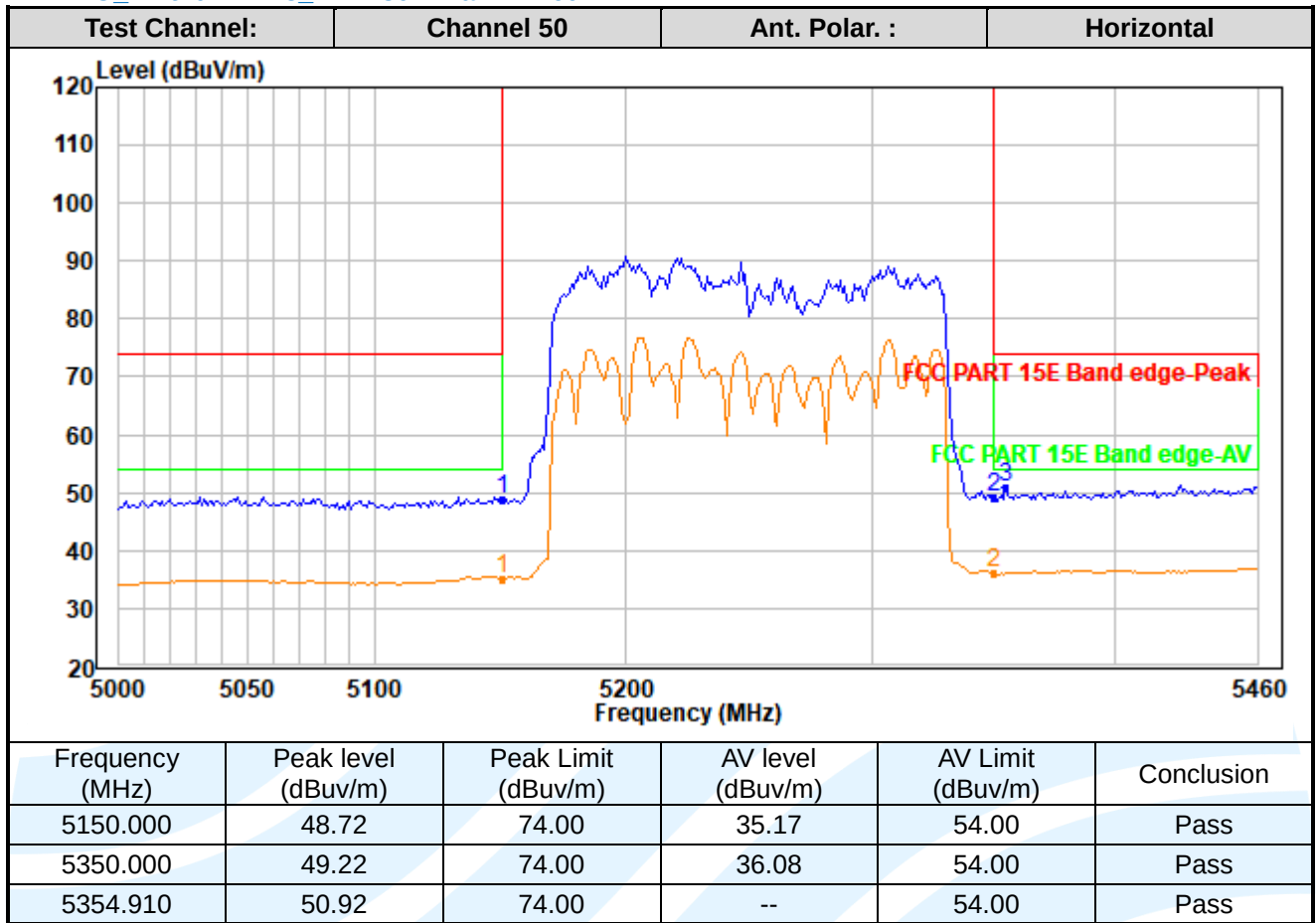
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MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE160



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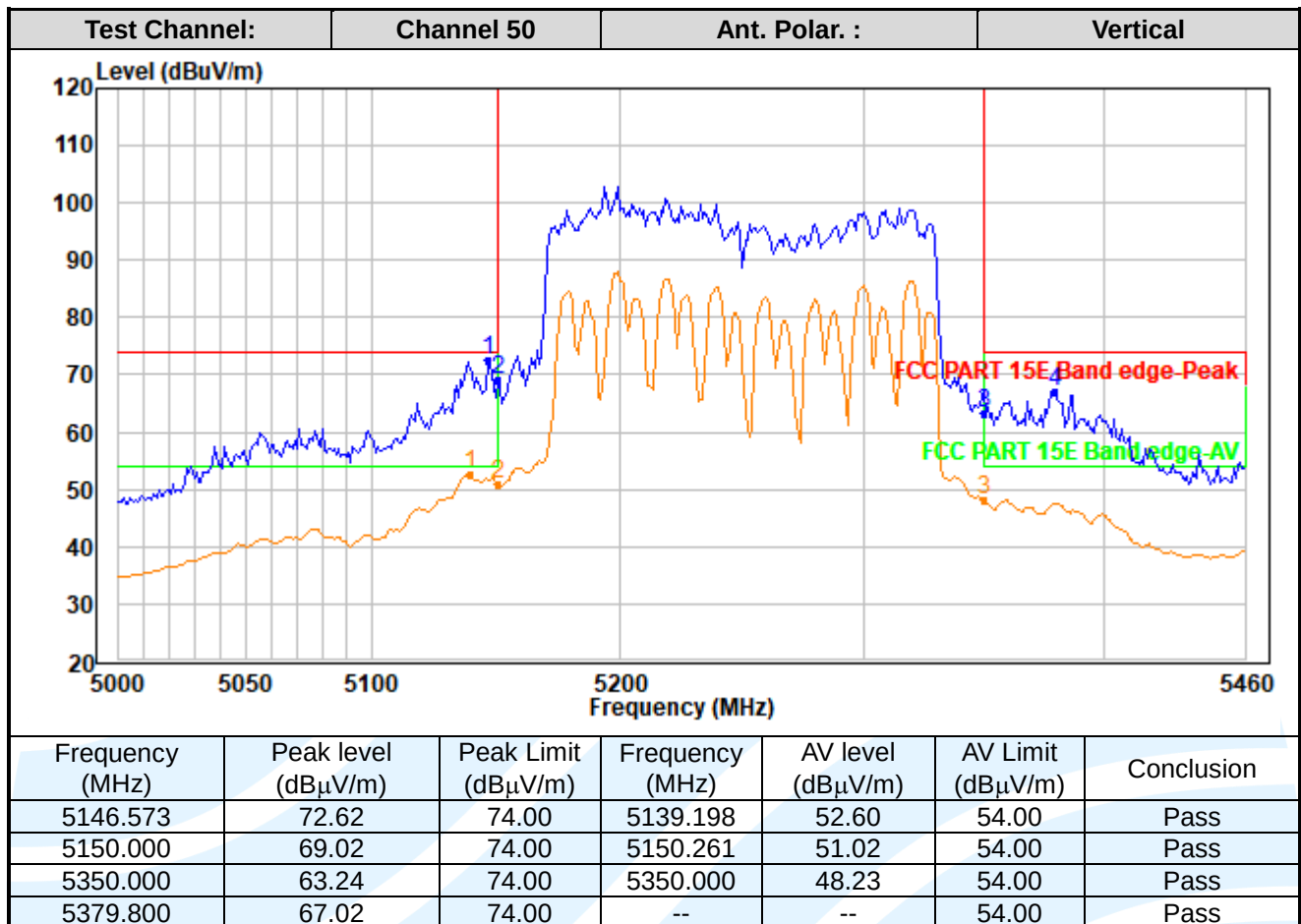
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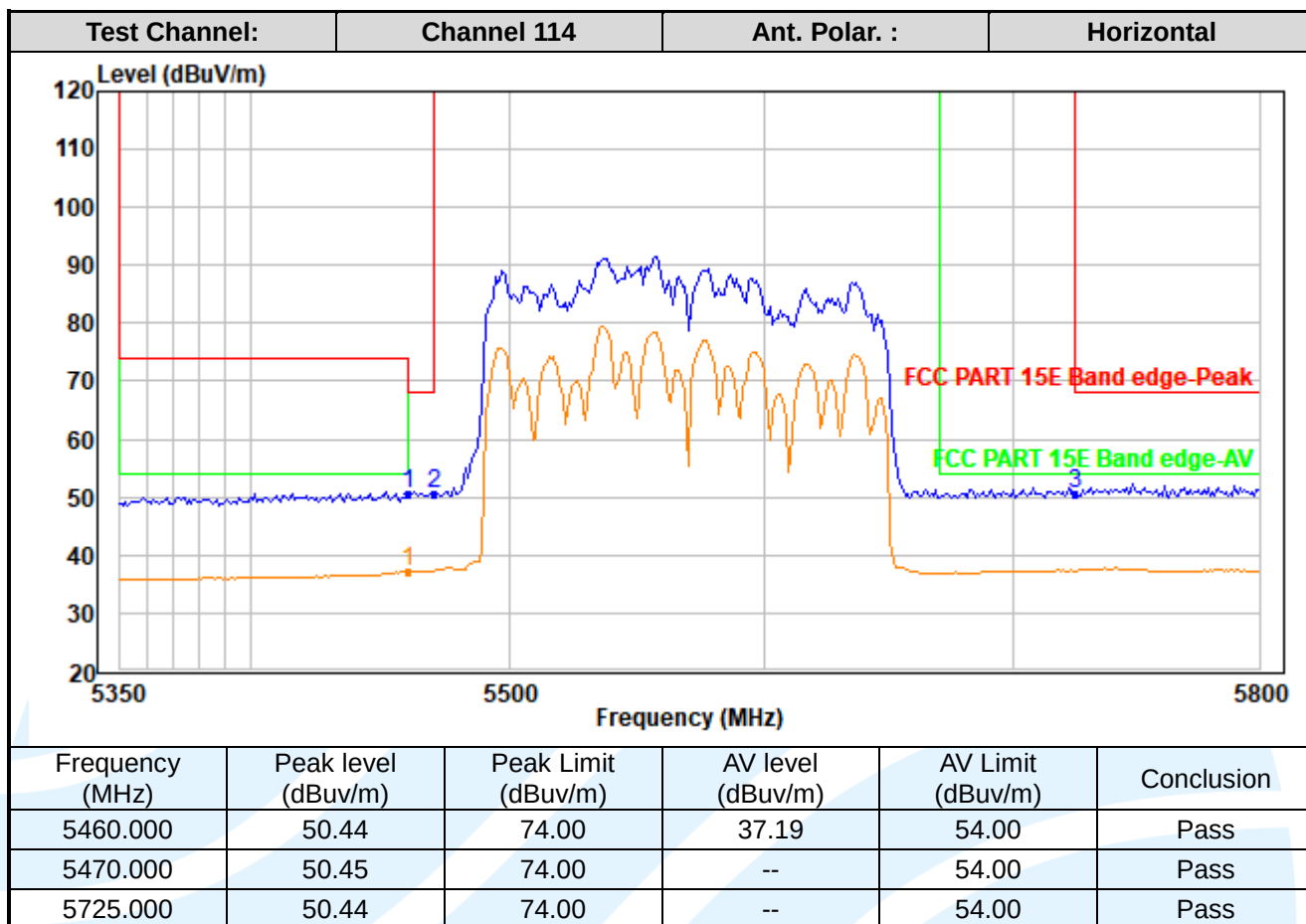
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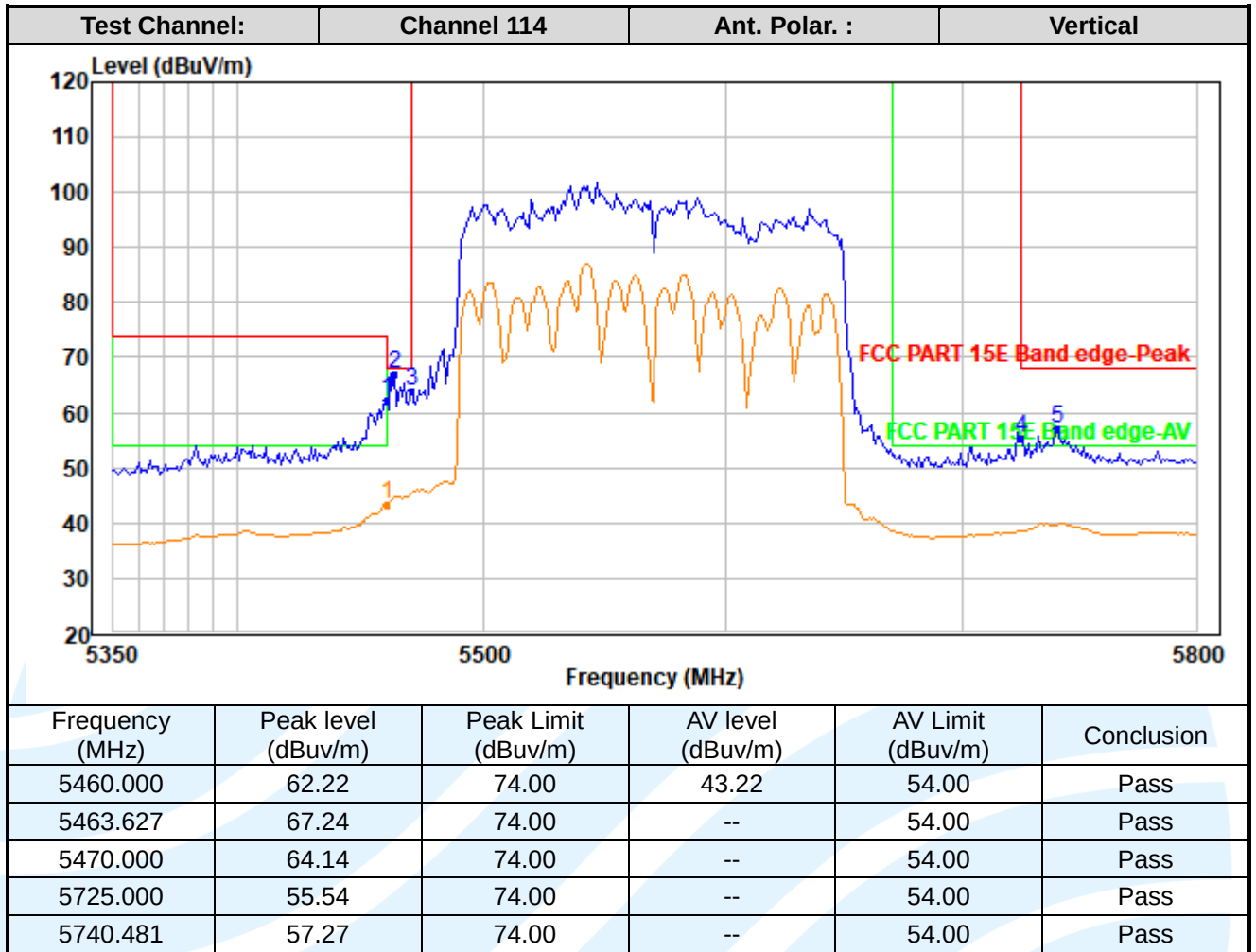
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5.8 AC POWER LINE CONDUCTED EMISSION

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.

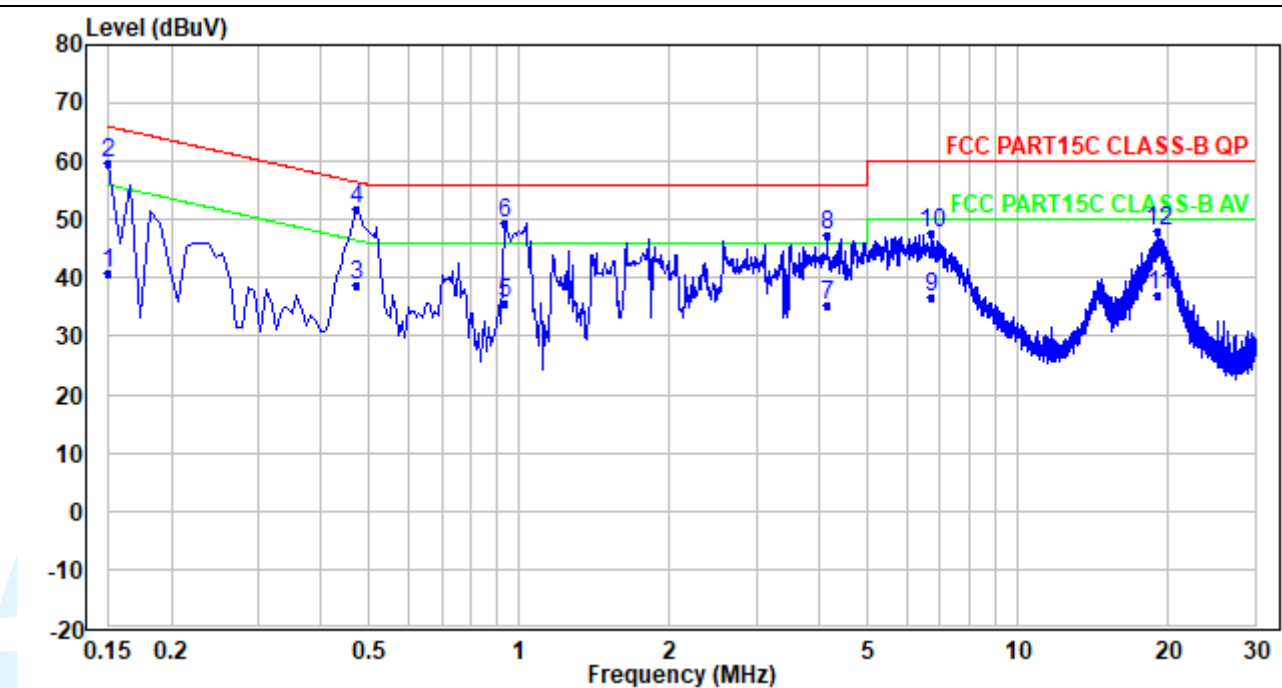
Test Result: Pass

The worst measurement data as follows:

Quasi Peak and Average:

Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.150	30.79	10.03	40.82	56.00	-15.18	Average
2	0.150	49.79	10.03	59.82	66.00	-6.18	QP
3	0.470	28.82	10.04	38.86	46.52	-7.66	Average
4	0.470	41.82	10.04	51.86	56.52	-4.66	QP
5	0.934	25.45	10.06	35.51	46.00	-10.49	Average
6	0.934	39.45	10.06	49.51	56.00	-6.49	QP
7	4.157	25.10	10.28	35.38	46.00	-10.62	Average
8	4.157	37.10	10.28	47.38	56.00	-8.62	QP
9	6.709	26.26	10.41	36.67	50.00	-13.33	Average
10	6.709	37.26	10.41	47.67	60.00	-12.33	QP
11	19.194	25.93	11.22	37.15	50.00	-12.85	Average
12	19.194	36.93	11.22	48.15	60.00	-11.85	QP

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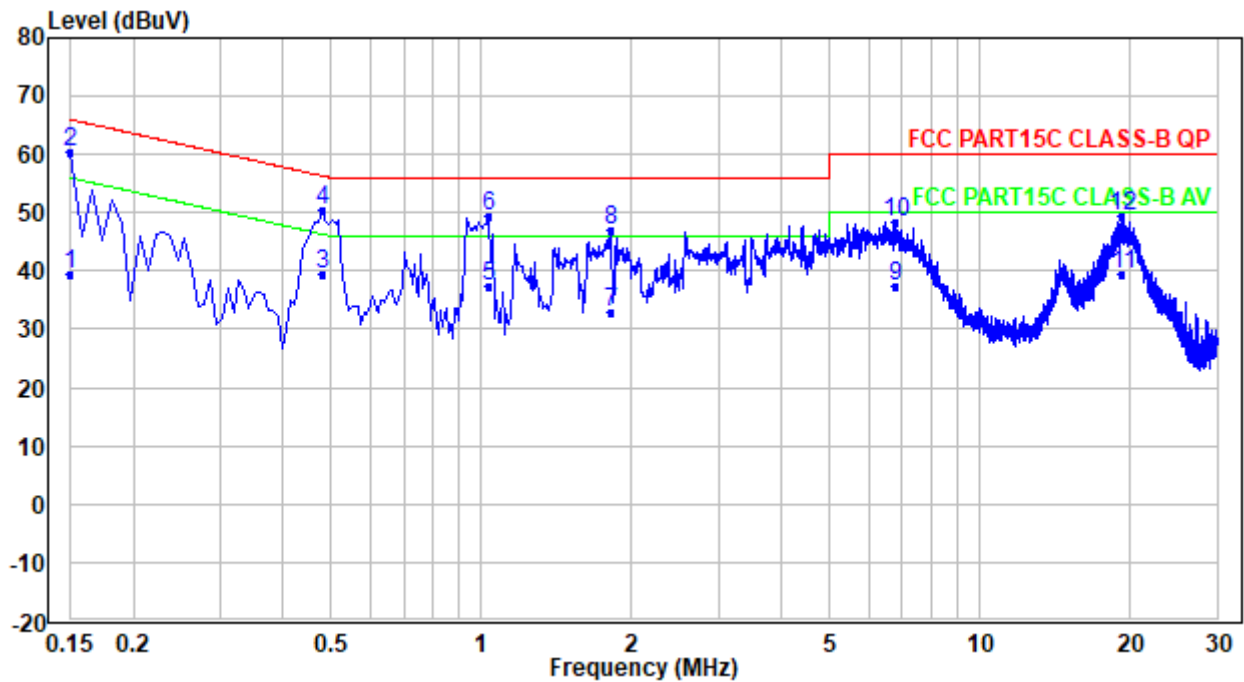
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Neutral Line



No.	Frequency (MHz)	Reading (dBUV)	Correction factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.150	29.52	10.02	39.54	56.00	-16.46	Average
2	0.150	50.52	10.02	60.54	66.00	-5.46	QP
3	0.478	29.55	10.03	39.58	46.37	-6.79	Average
4	0.478	40.55	10.03	50.58	56.37	-5.79	QP
5	1.038	27.25	10.05	37.30	46.00	-8.70	Average
6	1.038	39.25	10.05	49.30	56.00	-6.70	QP
7	1.814	22.87	10.09	32.96	46.00	-13.04	Average
8	1.814	36.87	10.09	46.96	56.00	-9.04	QP
9	6.773	27.11	10.39	37.50	50.00	-12.50	Average
10	6.773	38.11	10.39	48.50	60.00	-11.50	QP
11	19.346	28.20	11.11	39.31	50.00	-10.69	Average
12	19.346	38.20	11.11	49.31	60.00	-10.69	QP

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.

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APPENDIX A RF TEST DATA

A.1 99% BANDWIDTH

For U-NII-1, U-NII-2A and U-NII-2C Band:
Test Result

Mode	Channel	RU & Index	Ant.	99% BW (MHz)
IEEE 802.11a	36	N/A	0	16.868
			1	16.419
			2	16.670
			3	16.658
	44		0	16.702
			1	16.386
			2	16.641
			3	16.655
	48		0	16.649
			1	16.378
			2	16.648
			3	16.642
	52		0	16.629
			1	16.393
			2	16.683
			3	16.669
	60		0	16.624
			1	16.397
			2	16.700
			3	16.667
	64		0	16.642
			1	16.385
			2	16.787
			3	16.698
	100		0	16.700
			1	16.481
			2	16.638
			3	16.666
116	0	16.398		
	1	16.402		
	2	16.402		
	3	16.404		
140	0	16.625		
	1	16.378		
	2	16.658		
	3	16.755		
IEEE 802.11n_20	36	0	17.845	
		1	17.566	
		2	17.804	
		3	17.770	
	44	0	17.833	
		1	17.561	
		2	17.831	
		3	17.788	
	48	0	17.824	
		1	17.565	
		2	17.779	
		3	17.788	
	52	0	17.824	
		1	17.573	
		2	17.803	
		3	17.789	
	60	0	17.791	
		1	17.566	
		2	17.796	
		3	17.772	

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	64		0	17.823
			1	17.557
			2	17.807
			3	17.797
	100		0	17.808
			1	17.582
			2	17.790
			3	17.757
	116		0	17.579
			1	17.561
			2	17.574
			3	17.561
140	0	17.828		
	1	17.583		
	2	17.804		
	3	17.810		
IEEE 802.11n_40	38	0	35.952	
		1	36.026	
		2	36.016	
		3	35.940	
	46	0	35.979	
		1	35.975	
		2	35.986	
		3	35.953	
	54	0	35.947	
		1	35.965	
		2	35.949	
		3	35.942	
	62	0	35.956	
		1	35.952	
		2	36.016	
		3	35.971	
	102	0	35.982	
		1	35.977	
		2	35.950	
		3	35.984	
	110	0	36.013	
		1	35.999	
		2	36.009	
		3	35.975	
	134	0	35.977	
		1	35.954	
		2	35.953	
		3	36.000	
IEEE 802.11ac_20	36	0	17.841	
		1	17.558	
		2	17.797	
		3	17.780	
	44	0	17.857	
		1	17.567	
		2	17.813	
		3	17.773	
	48	0	17.827	
		1	17.565	
		2	17.791	
		3	17.793	
	52	0	17.807	
		1	17.551	
		2	17.789	
		3	17.803	
	60	0	17.797	
		1	17.585	
		2	17.819	

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			3	17.776
			0	17.836
	64		1	17.572
			2	17.799
			3	17.796
			0	17.819
	100		1	17.573
			2	17.803
			3	17.772
			0	17.571
	116		1	17.579
			2	17.561
			3	17.566
			0	17.819
140	1	17.591		
	2	17.809		
	3	17.810		
	0	35.985		
IEEE 802.11ac_40	38	1	35.949	
		2	35.964	
		3	35.967	
		0	35.998	
	46	1	35.979	
		2	36.016	
		3	35.951	
		0	35.980	
	54	1	35.979	
		2	35.937	
		3	35.952	
		0	35.951	
	62	1	35.986	
		2	35.984	
		3	35.925	
		0	35.950	
	102	1	35.991	
		2	35.965	
		3	35.976	
		0	35.975	
	110	1	35.954	
		2	35.994	
		3	35.966	
		0	35.959	
	134	1	35.987	
		2	35.990	
		3	35.994	
		0	75.423	
IEEE 802.11ac_80	42	1	75.365	
		2	75.369	
		3	75.345	
		0	75.407	
	58	1	75.370	
		2	75.411	
		3	75.284	
		0	75.399	
	106	1	75.410	
		2	75.417	
		3	75.326	
		0	154.841	
IEEE 802.11ac_80+80	50	1	154.943	
		2	154.525	
	114	3	154.289	
		0	155.191	
		1	154.763	

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			2	154.597
			3	154.391
IEEE 802.11ac_160	50		0	153.326
			1	153.384
			2	152.957
	3		152.917	
	0		153.519	
	1		153.393	
2	153.006			
3	153.130			
IEEE 802.11ax_20	36		0	19.082
			1	18.911
	2		19.102	
	3		19.067	
	44		0	19.123
			1	18.885
	2	19.090		
	3	19.101		
	48	0	19.118	
		1	18.925	
52	2	19.062		
	3	19.073		
60	0	18.911		
	1	18.890		
64	2	19.117		
	3	19.095		
100	0	19.093		
	1	18.925		
116	2	19.105		
	3	19.120		
140	0	19.106		
	1	18.874		
IEEE 802.11ax_40	38	2	19.091	
		3	19.062	
	46	0	19.109	
		1	18.886	
	54	2	19.102	
		3	19.091	
	62	0	18.890	
		1	18.912	
	102	2	18.893	
		3	18.891	
			0	19.091
			1	18.918
			2	19.125
			3	19.123
		0	37.652	
		1	37.670	
		2	37.689	
		3	37.646	
		0	37.597	
		1	37.646	
		2	37.638	
		3	37.597	
		0	37.610	
		1	37.631	
	2	37.624		
	3	37.568		
	0	37.582		
	1	37.659		
	2	37.587		
	3	37.679		
			0	37.605

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			1	37.638
			2	37.610
			3	37.608
			0	37.662
			1	37.659
			2	37.702
			3	37.589
			0	37.615
			1	37.662
			2	37.631
IEEE 802.11ax_80	110		3	37.691
			0	77.159
			1	77.020
			2	77.042
			3	77.010
			0	77.064
			1	77.069
			2	77.089
			3	76.965
			0	77.096
IEEE 802.11ax_80+80	134		1	77.061
			2	77.016
			3	76.991
			0	154.726
			1	154.776
			2	154.581
			3	154.436
			0	154.978
			1	154.810
			2	154.393
IEEE 802.11ax_160	42	SU	3	154.574
			0	154.836
			1	154.972
			2	154.501
			3	154.475
			0	155.107
			1	154.916
			2	154.633
			3	154.602
	58			
	106			
	50			
	114			
	114			

Mode	Channel	RU & Index	Ant.	99% BW (MHz)
IEEE 802.11ax_20	36	26RU0	0	16.161
			1	17.607
			2	18.117
			3	17.419
		52RU37	0	17.705
			1	17.826
			2	17.367
			3	17.255
		106RU53	0	18.922
			1	17.306
			2	18.941
			3	18.931
	44	26RU4	0	16.978
			1	16.615
			2	16.420
			3	16.946
		52RU39	0	17.275
			1	17.882
			2	17.962
			3	18.057
		106RU53	0	18.952
			1	18.091
			2	18.916
			3	18.921
	48	26RU8	0	17.046
			1	18.072
			2	18.187
			3	18.117
		52RU40	0	17.952
			1	18.018
			2	17.887
			3	18.081
		106RU54	0	18.929
			1	17.195
			2	18.947
			3	18.937
	52	26RU0	0	17.366
			1	18.098
			2	18.205
			3	18.020
		52RU37	0	17.275
			1	17.905
			2	17.951
			3	17.835
		106RU53	0	18.946
			1	17.219
			2	18.925
			3	18.941
	60	26RU4	0	15.063
			1	16.452
			2	17.035
			3	17.006
		52RU39	0	18.178
			1	16.207
			2	17.768
			3	18.012
		106RU53	0	18.935
			1	18.129
			2	18.913
			3	18.924
	64	26RU8	0	17.219
			1	17.704

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				2	18.094
				3	18.330
			52RU40	0	16.439
				1	17.134
				2	18.108
				3	17.966
		106RU54	0	18.934	
			1	17.979	
			2	18.940	
			3	18.945	
		100	26RU0	0	16.150
				1	18.192
	2			18.096	
	3			18.090	
	52RU37		0	17.880	
			1	17.851	
			2	18.018	
			3	17.873	
	106RU53		0	18.957	
			1	18.129	
			2	18.937	
			3	18.927	
	116	26RU4	0	16.103	
			1	16.964	
			2	17.033	
			3	16.892	
		52RU39	0	18.152	
			1	17.991	
			2	16.835	
			3	18.118	
		106RU53	0	18.919	
			1	18.943	
			2	18.970	
			3	18.938	
	140	26RU8	0	16.157	
			1	17.678	
			2	18.245	
			3	17.428	
		52RU40	0	18.166	
			1	18.120	
			2	18.147	
			3	17.876	
		106RU53	0	18.939	
			1	18.073	
			2	18.968	
			3	18.949	

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Test Graphs

