

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

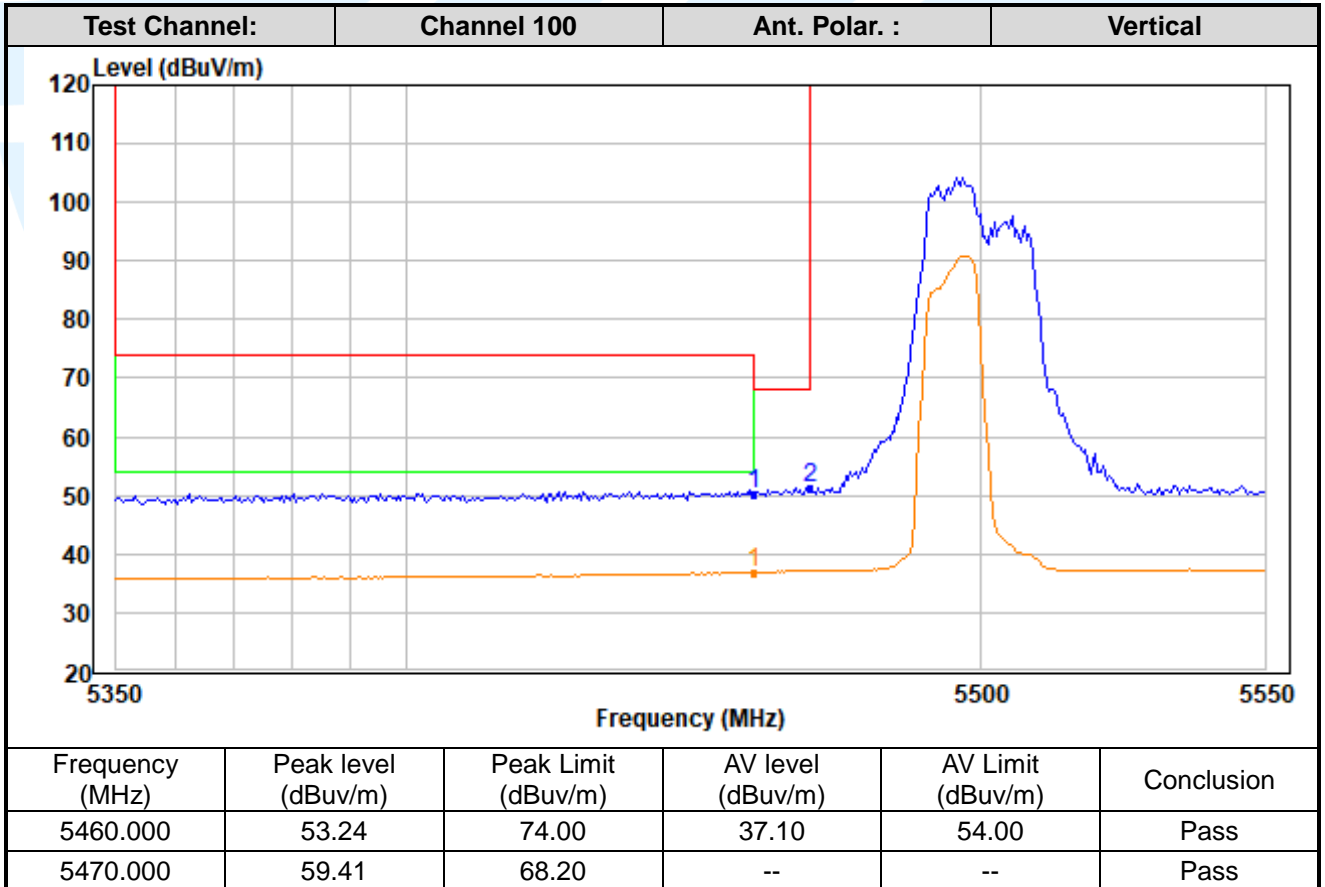
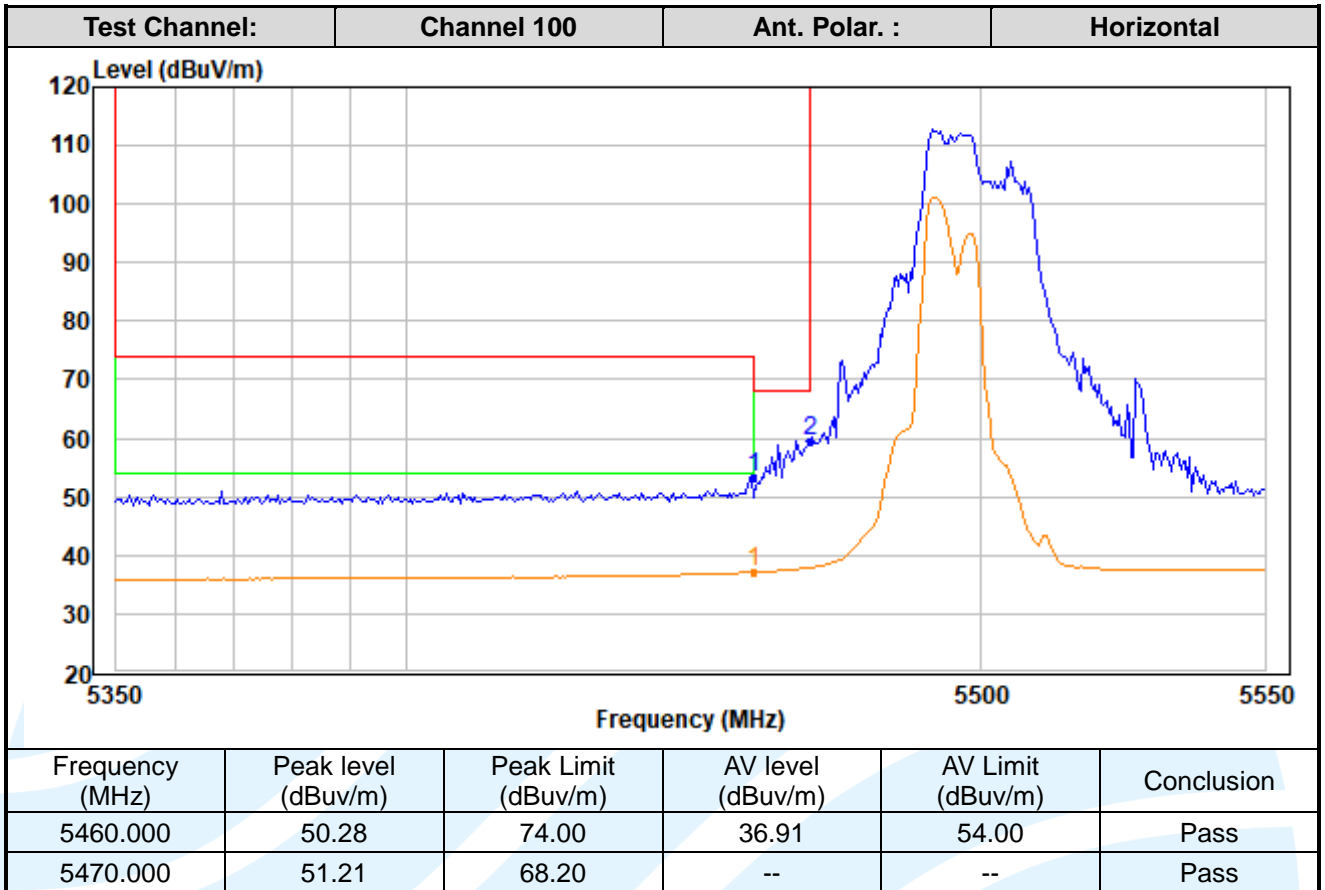
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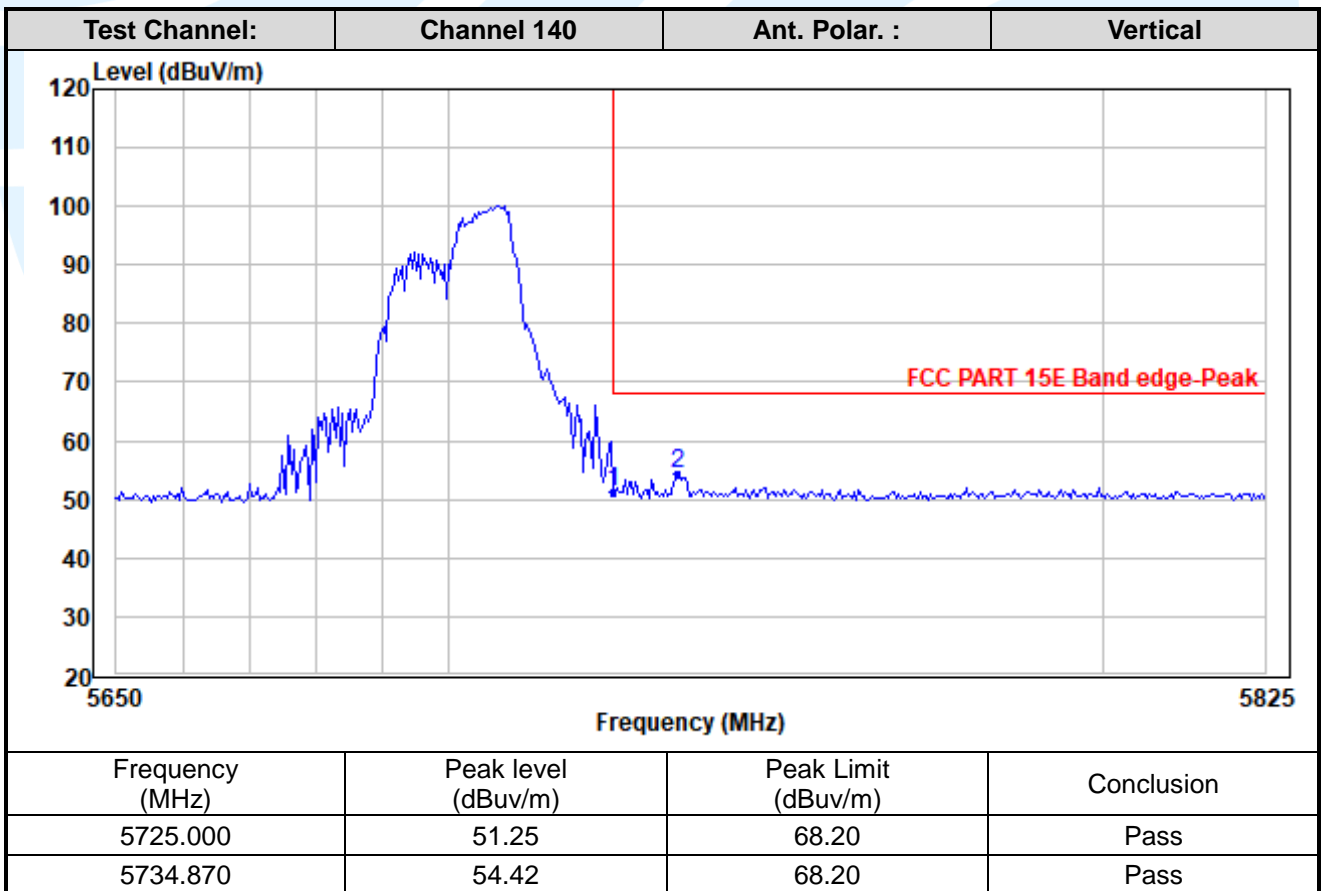
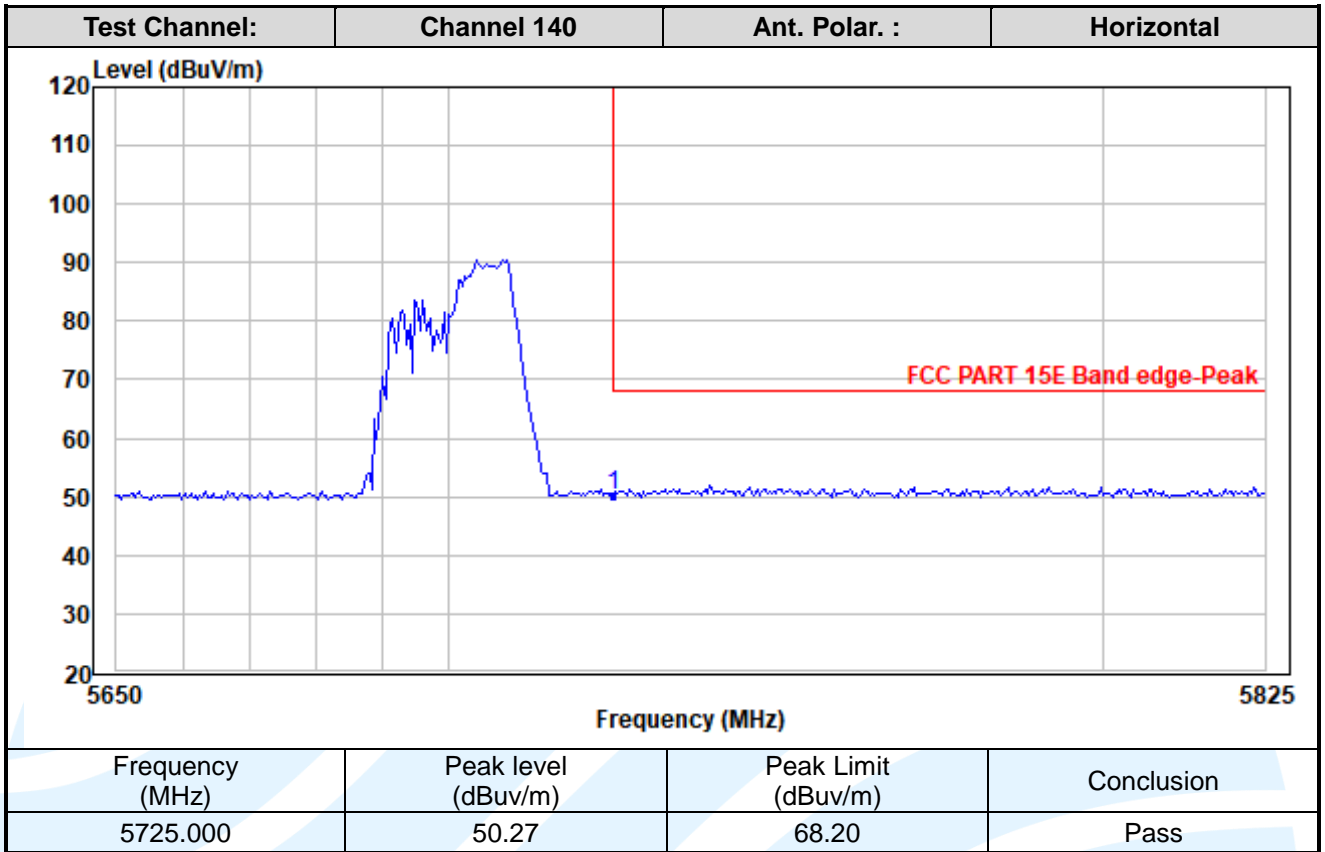
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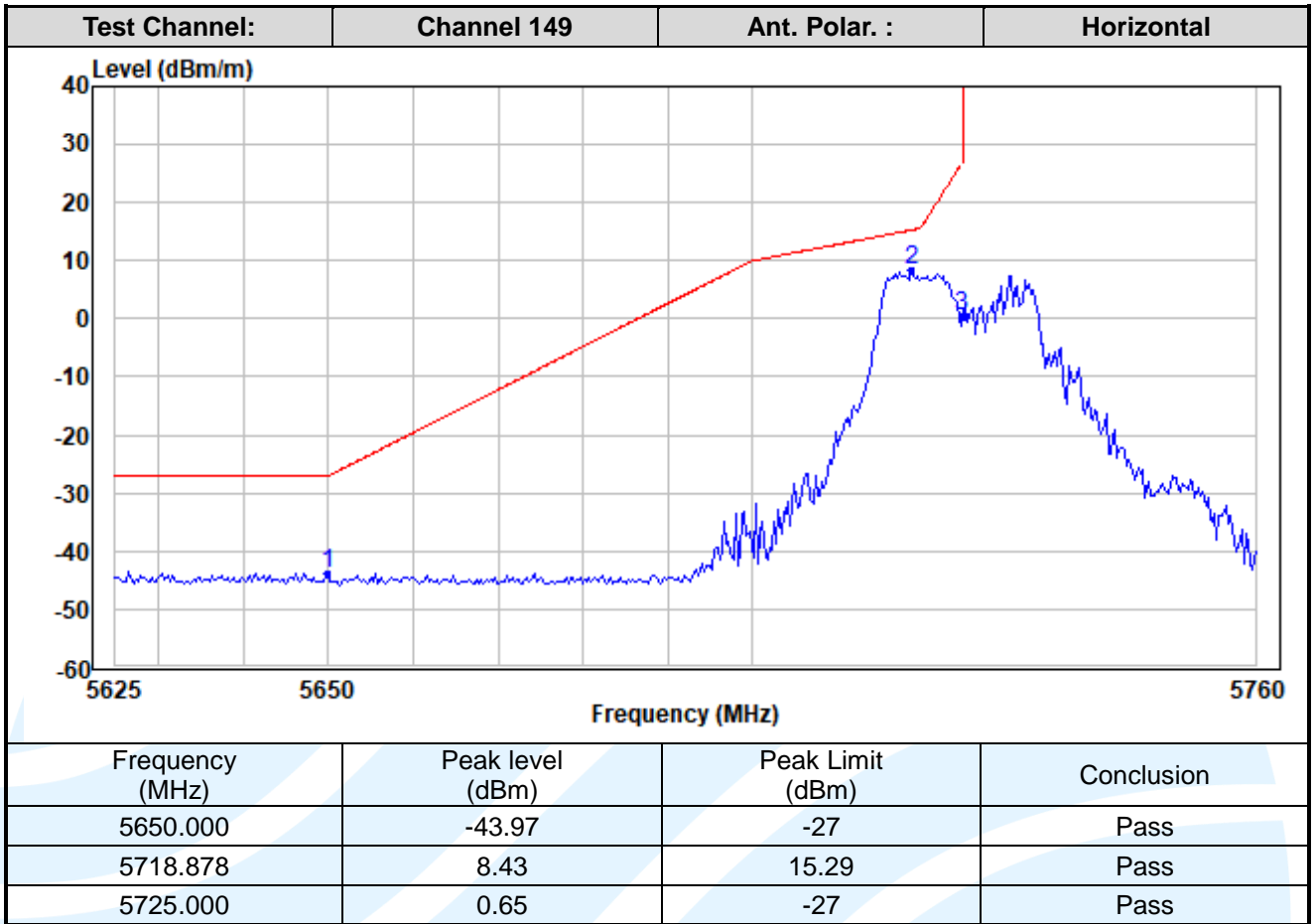
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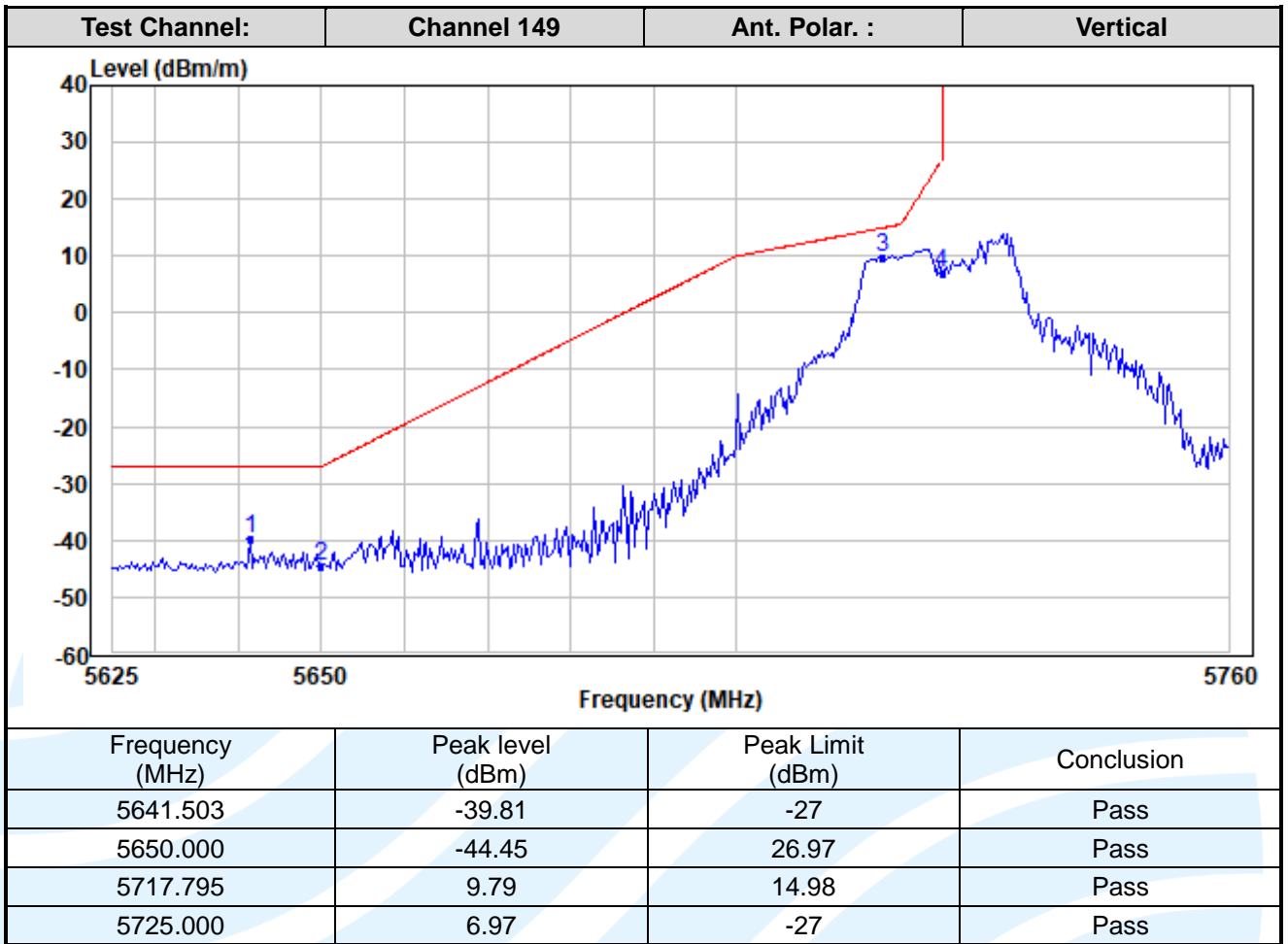
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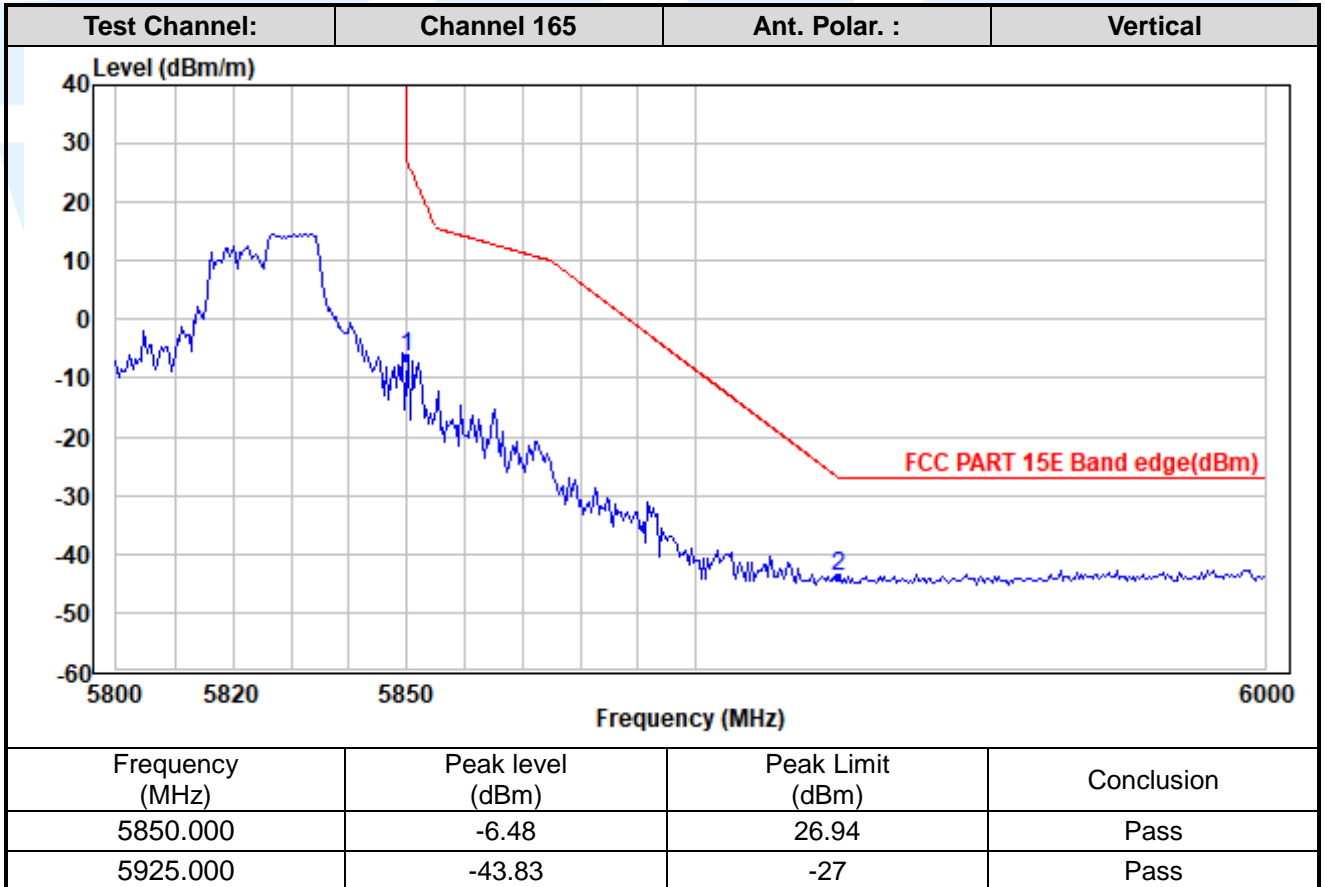
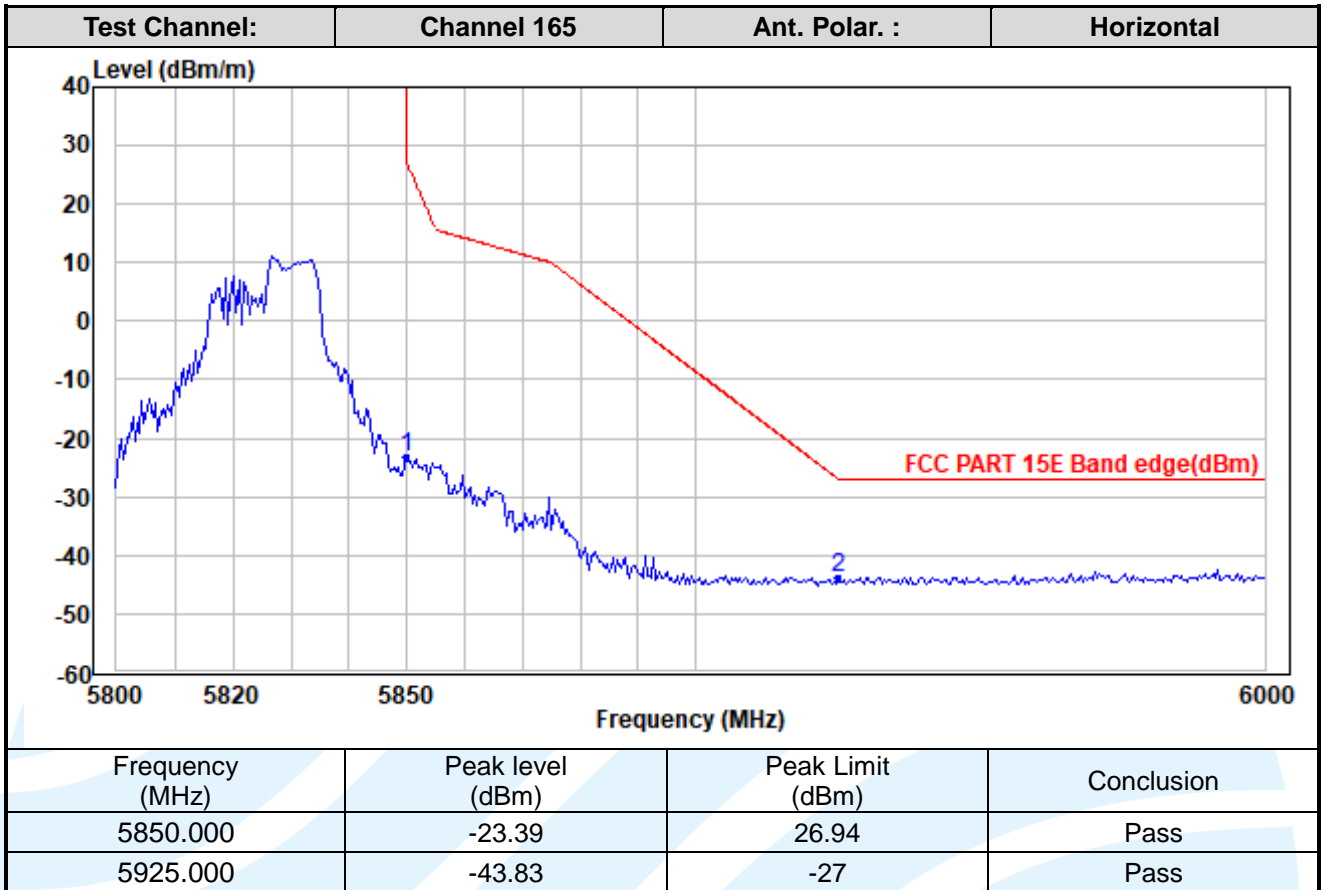
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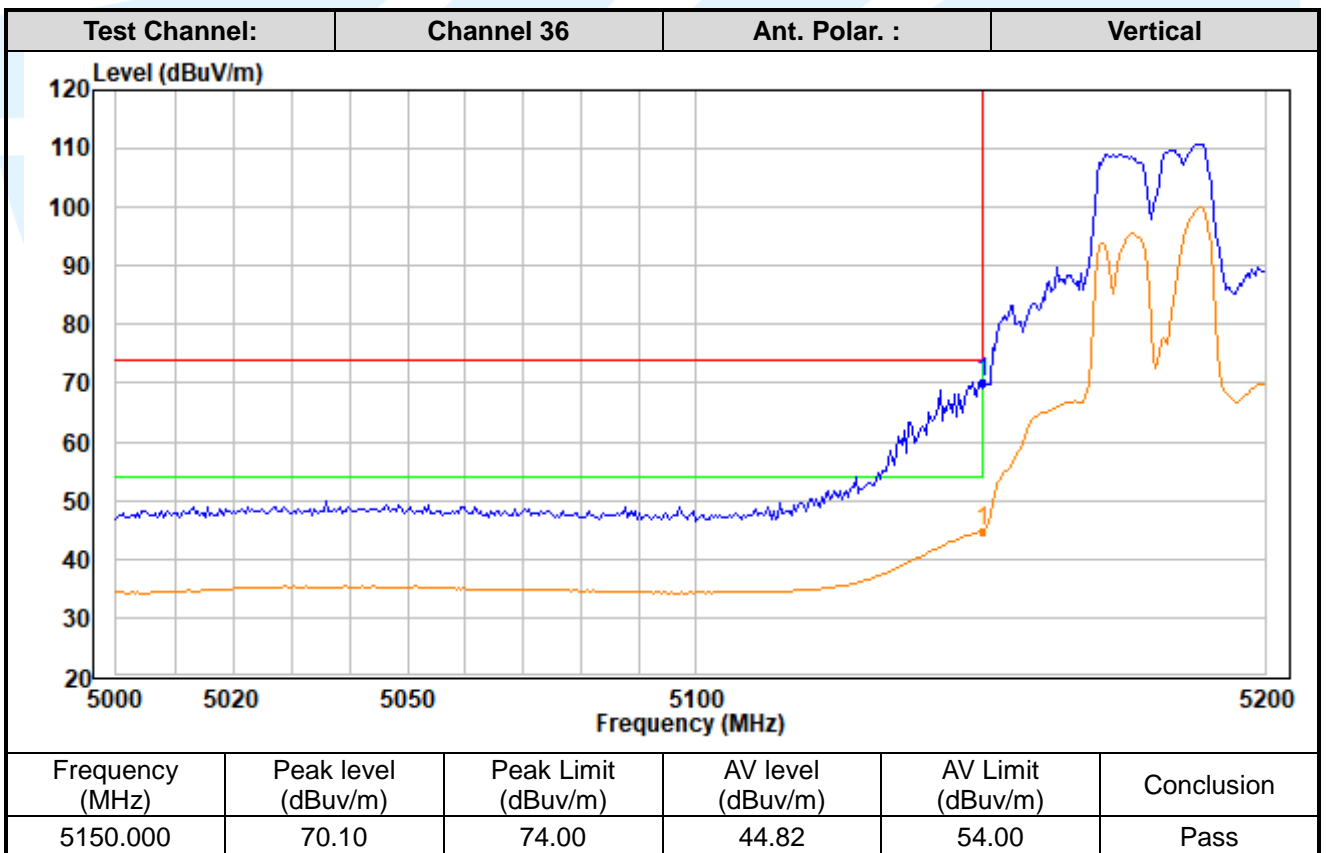
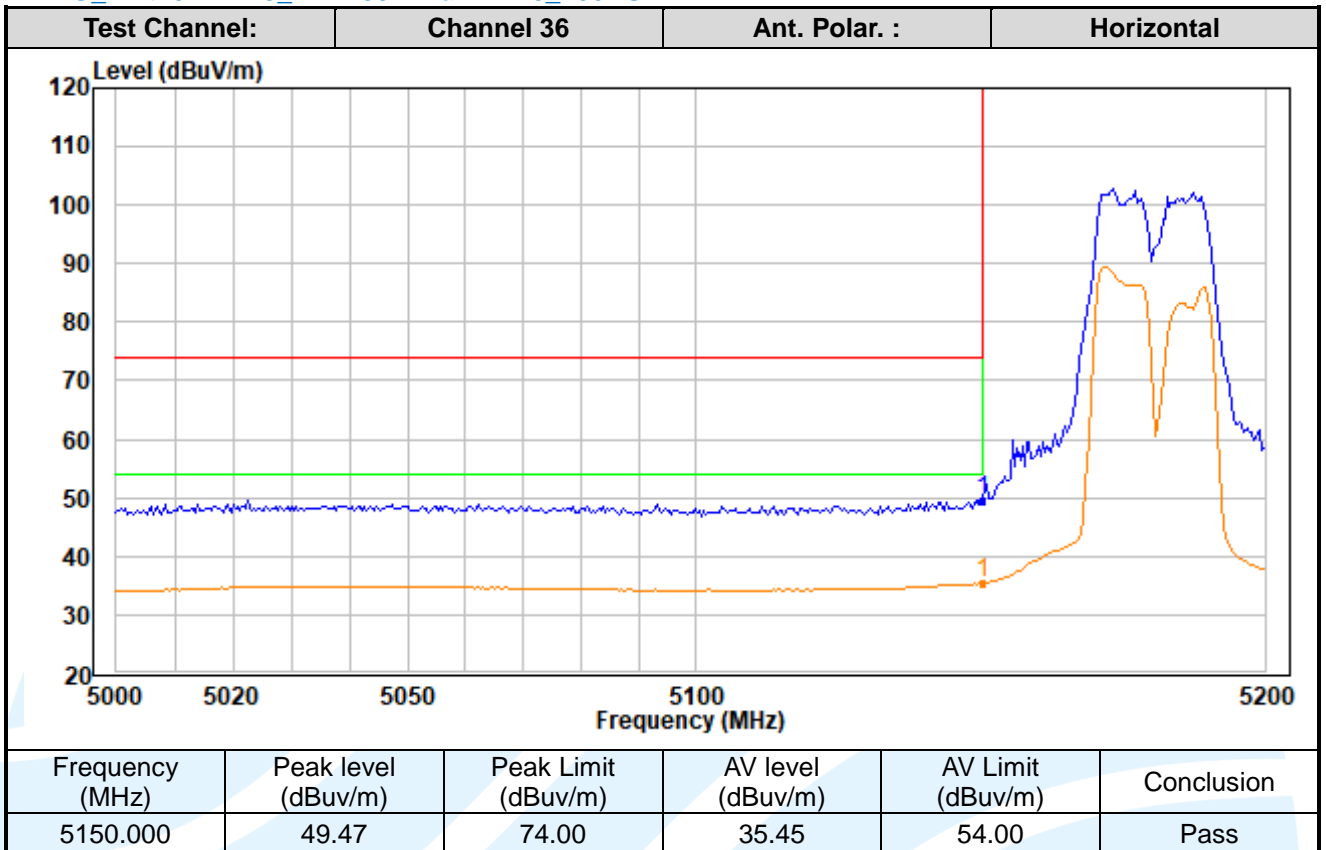
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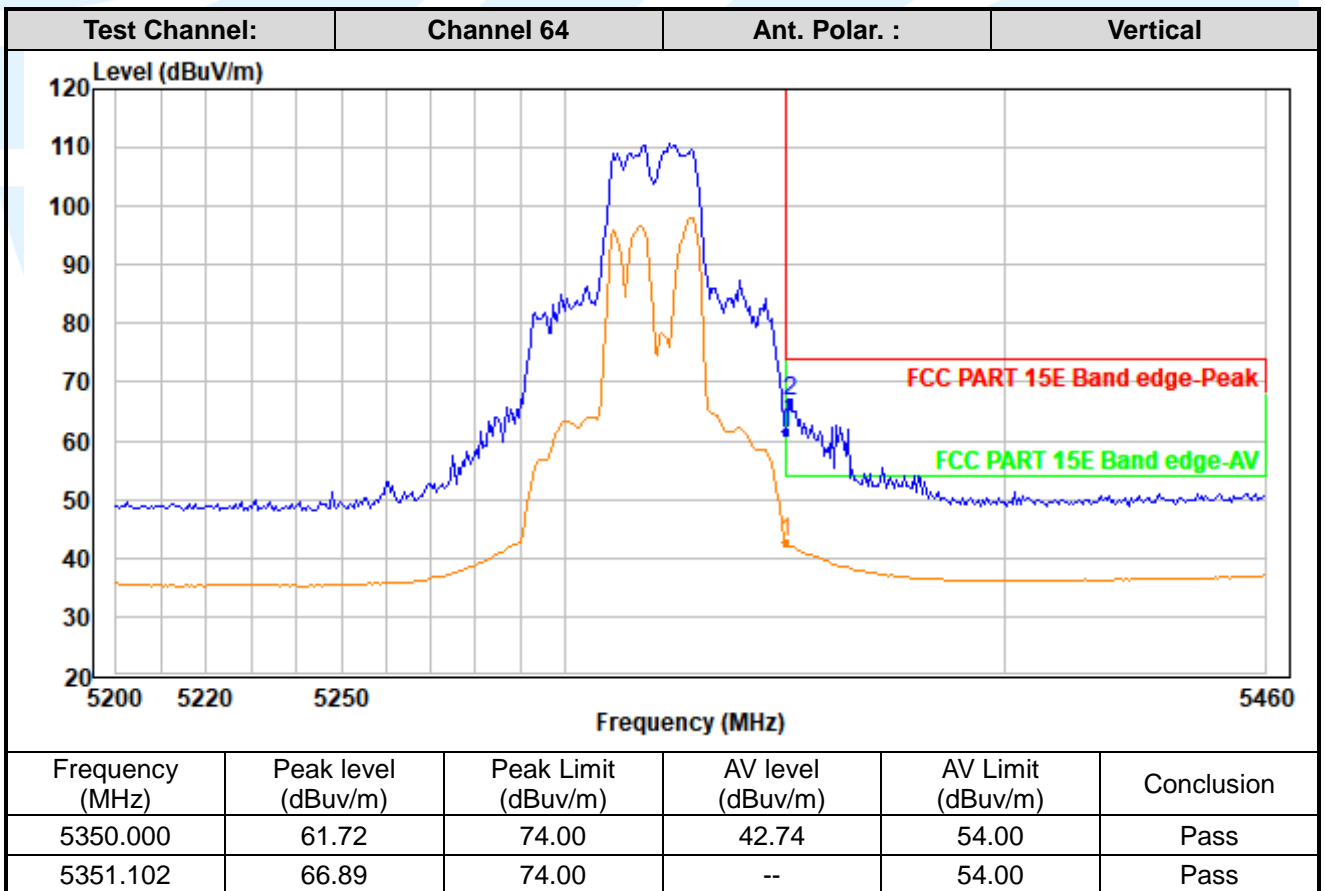
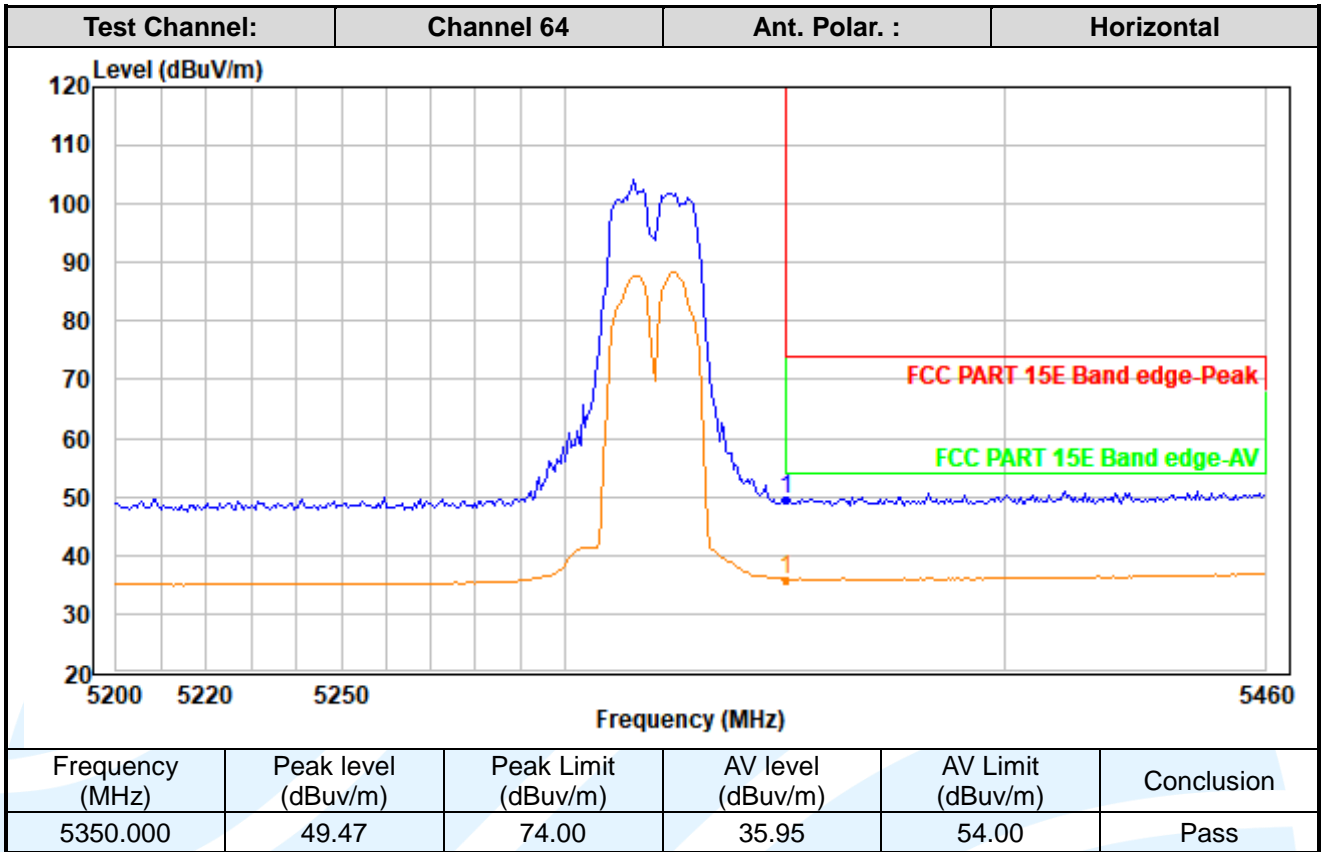
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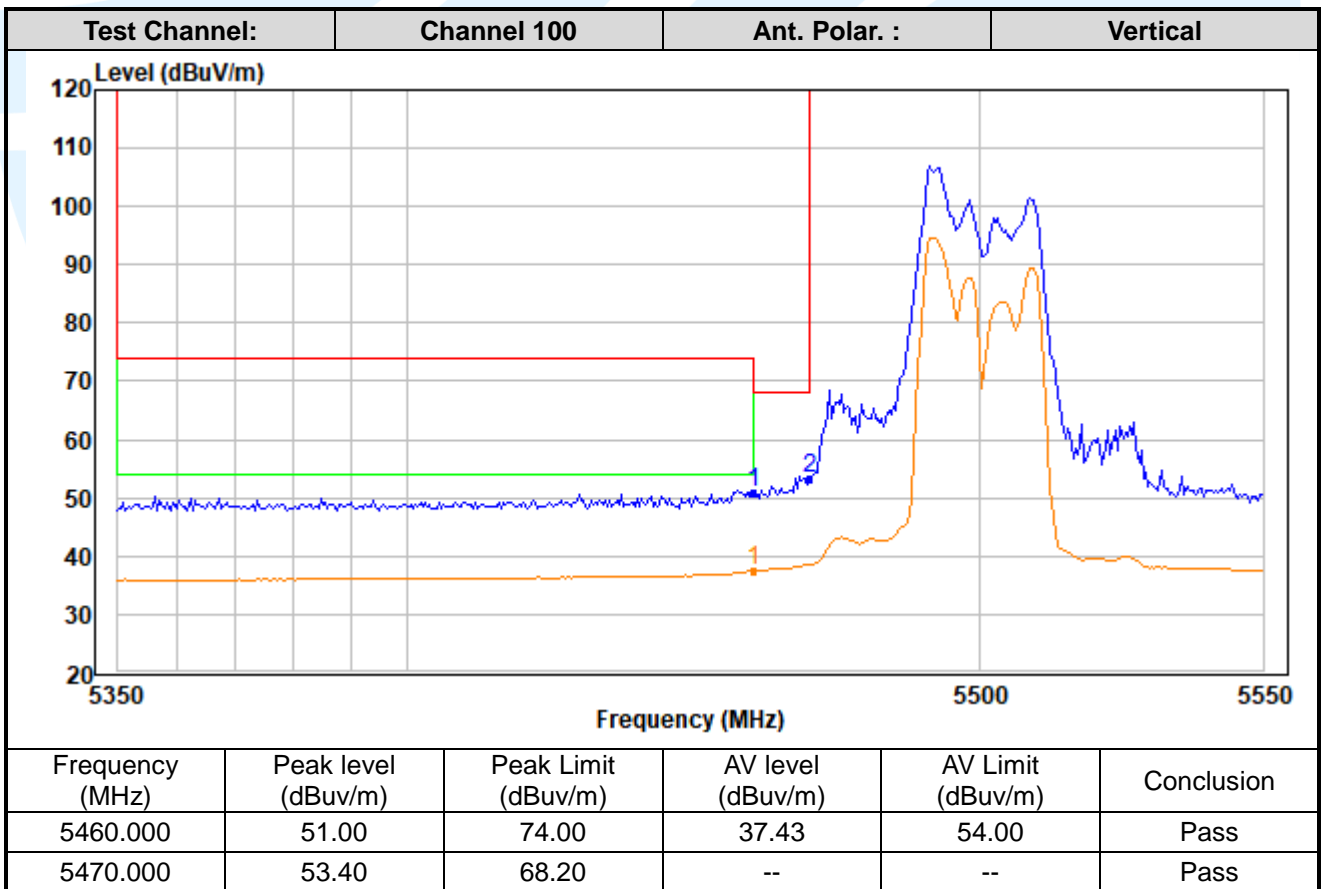
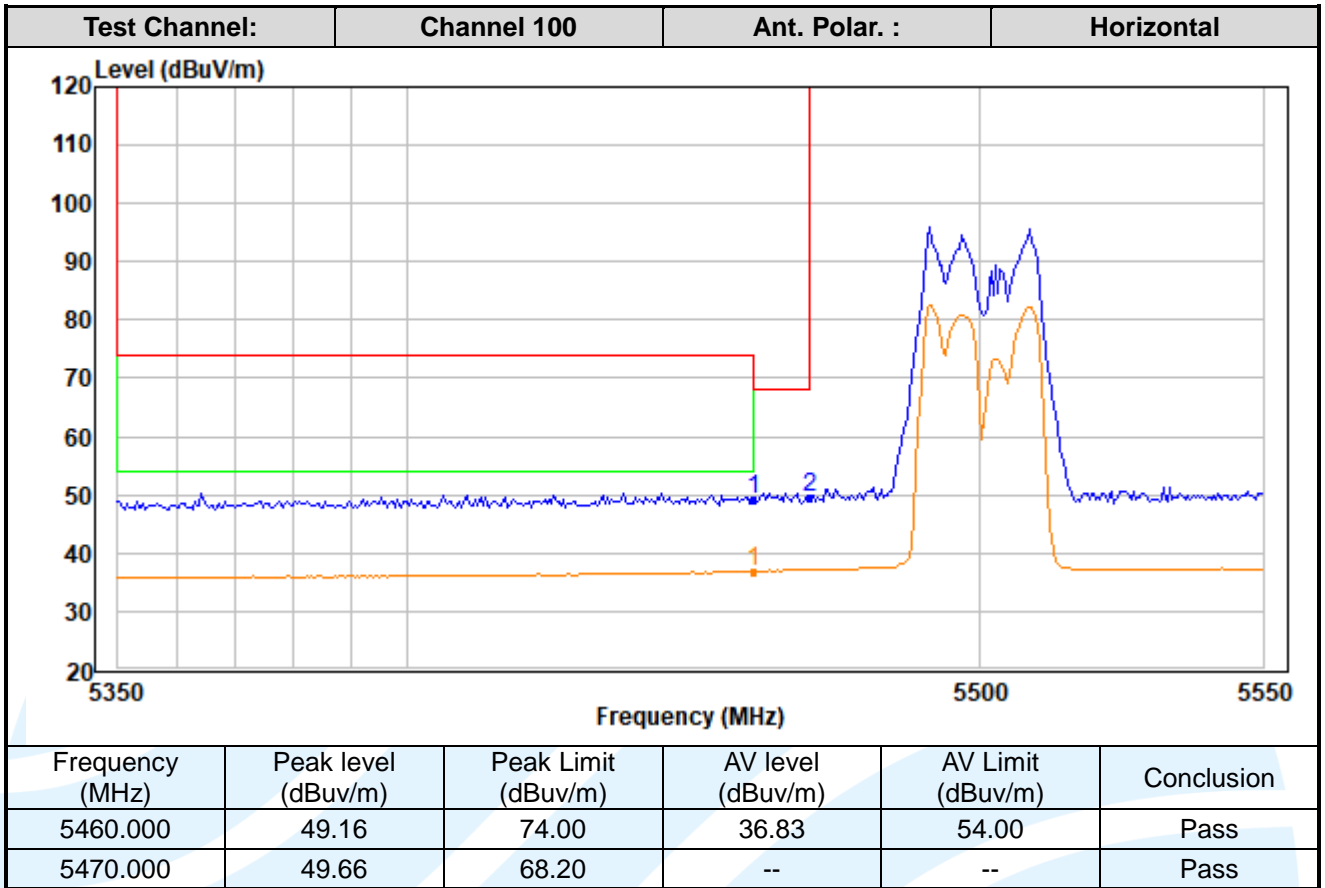
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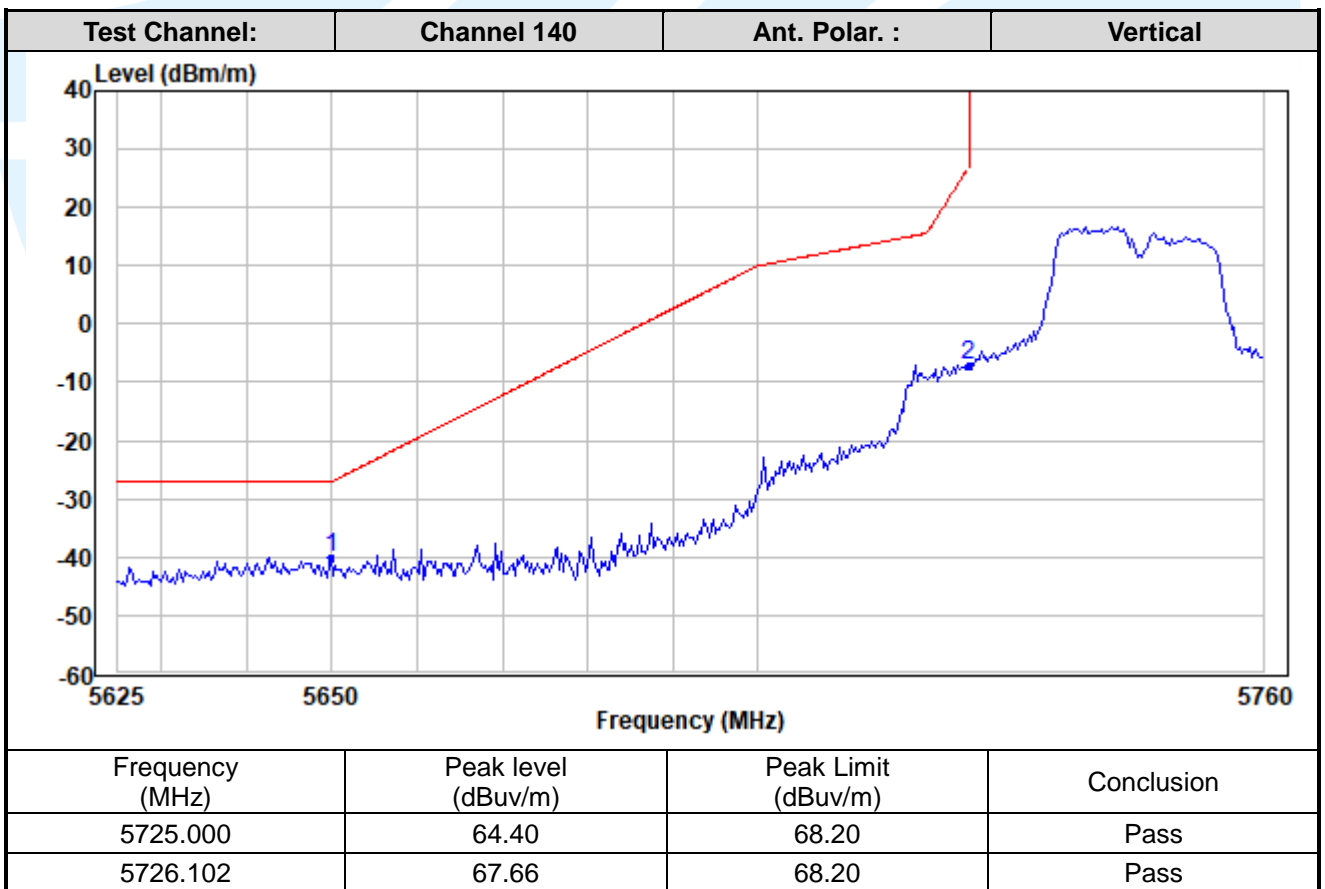
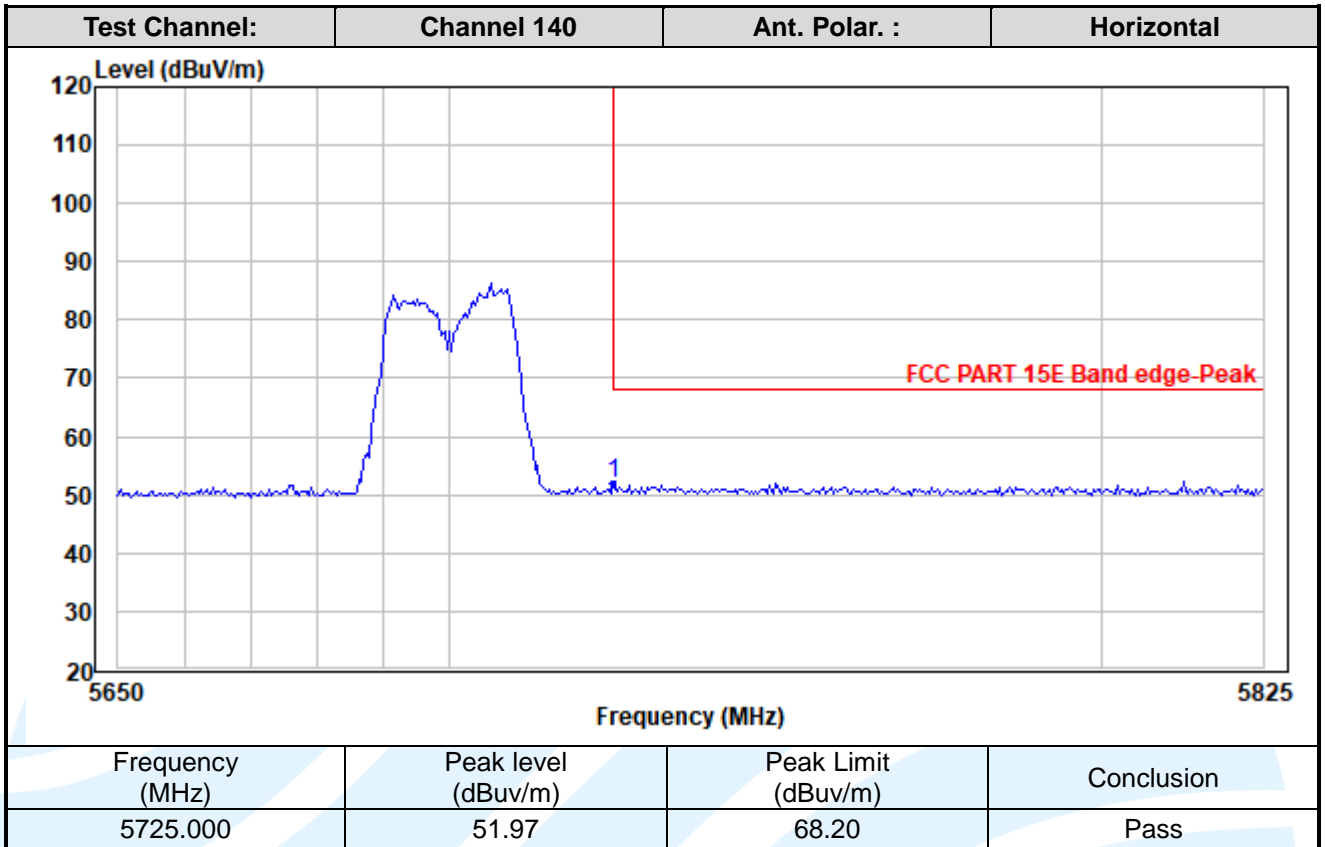
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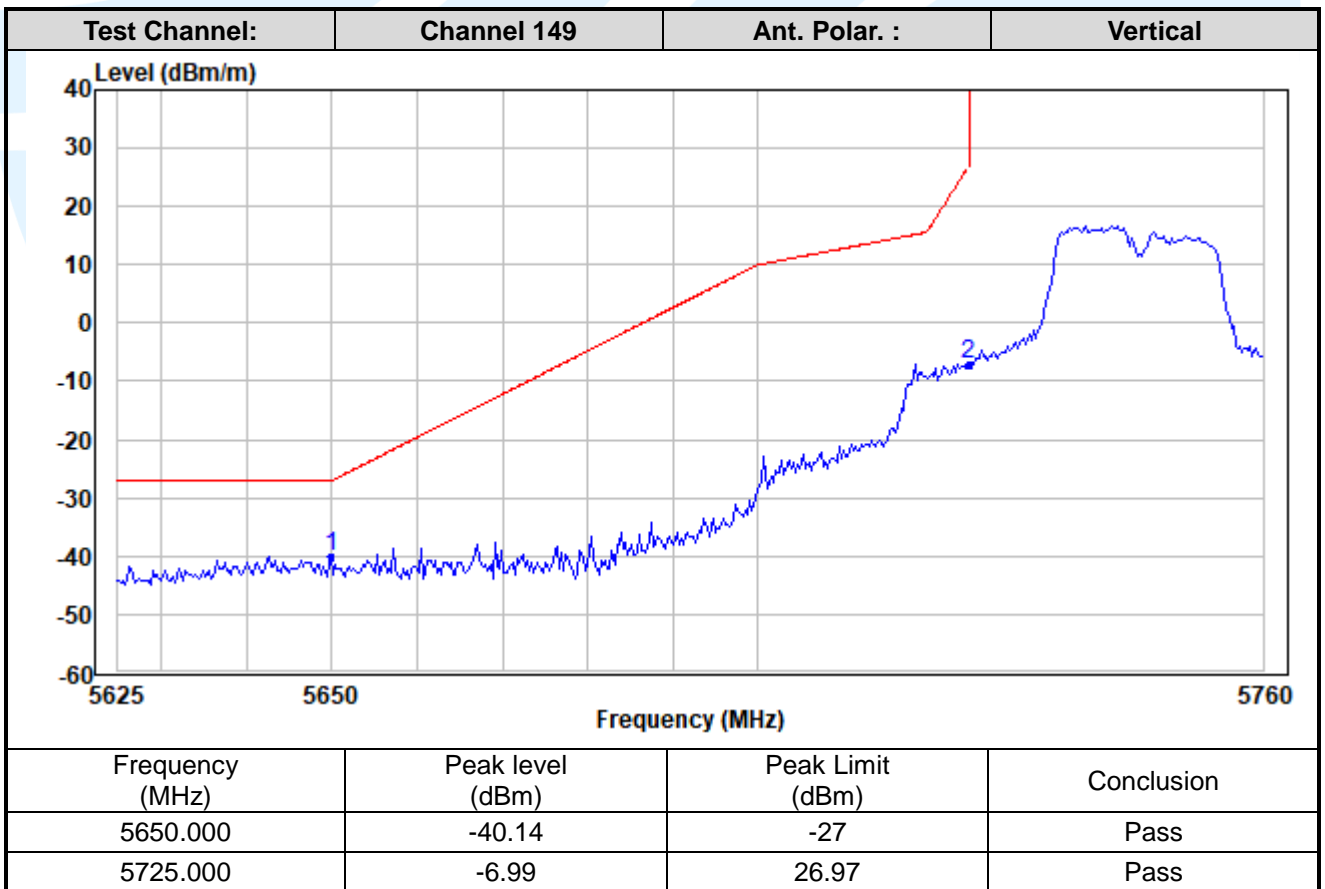
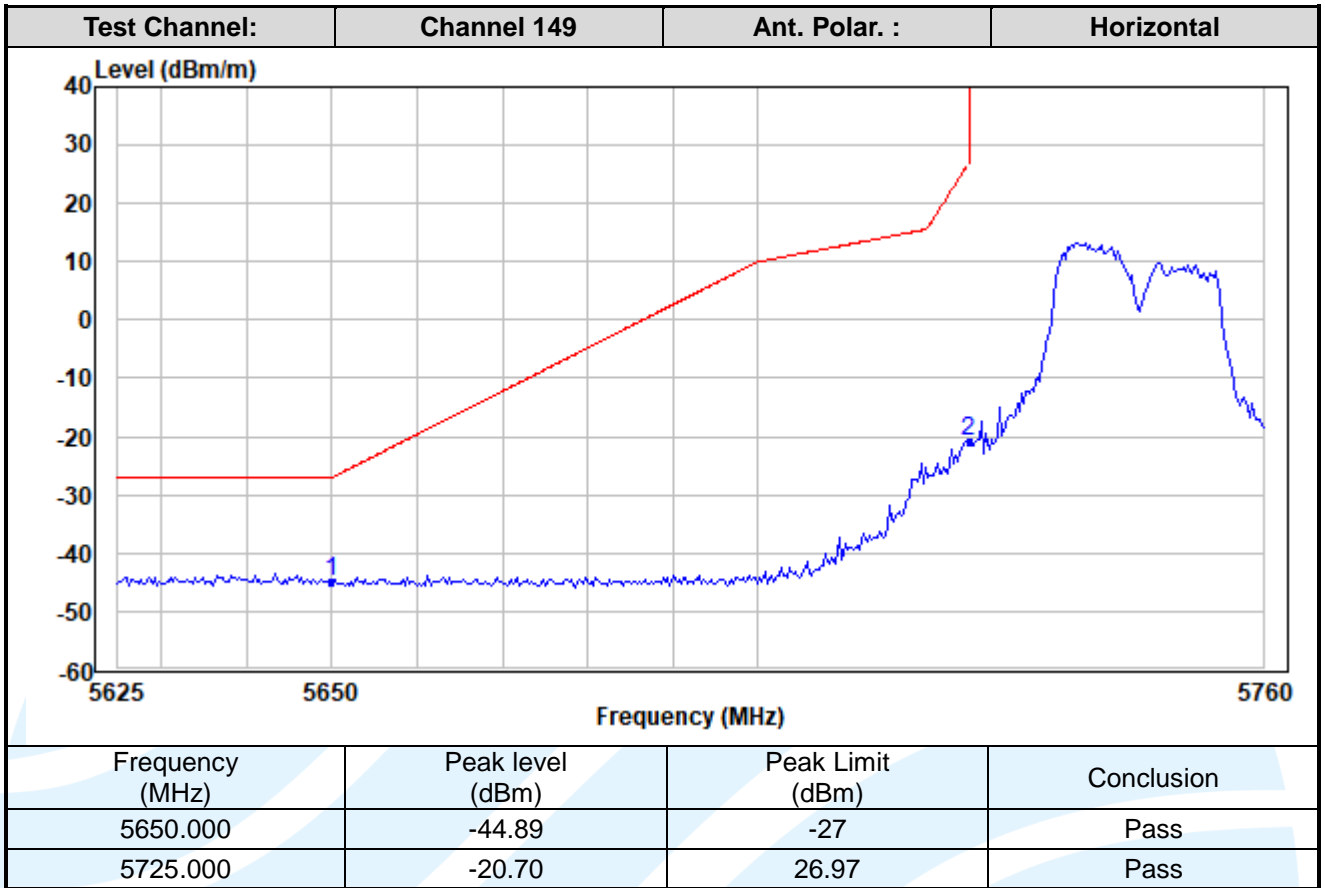
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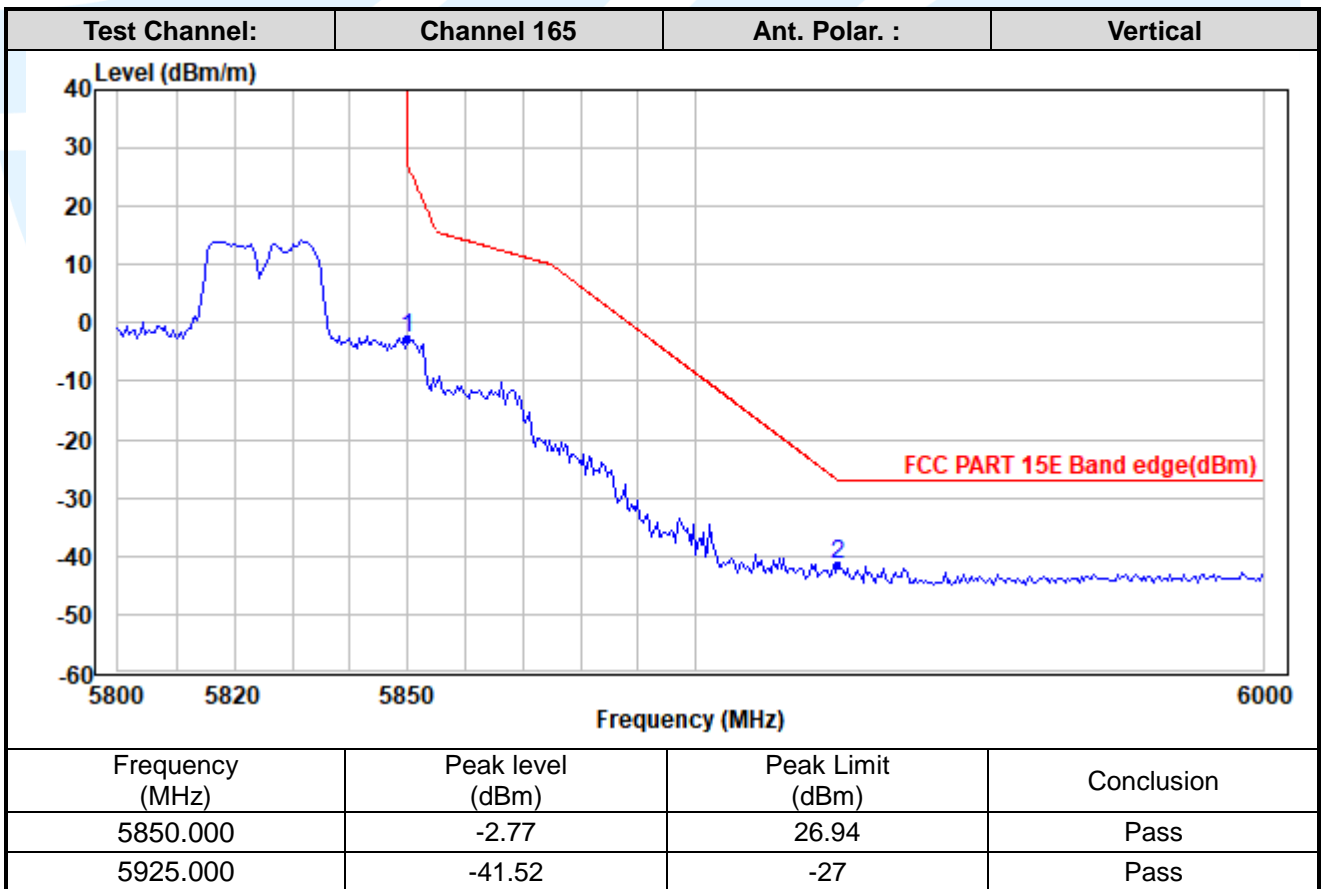
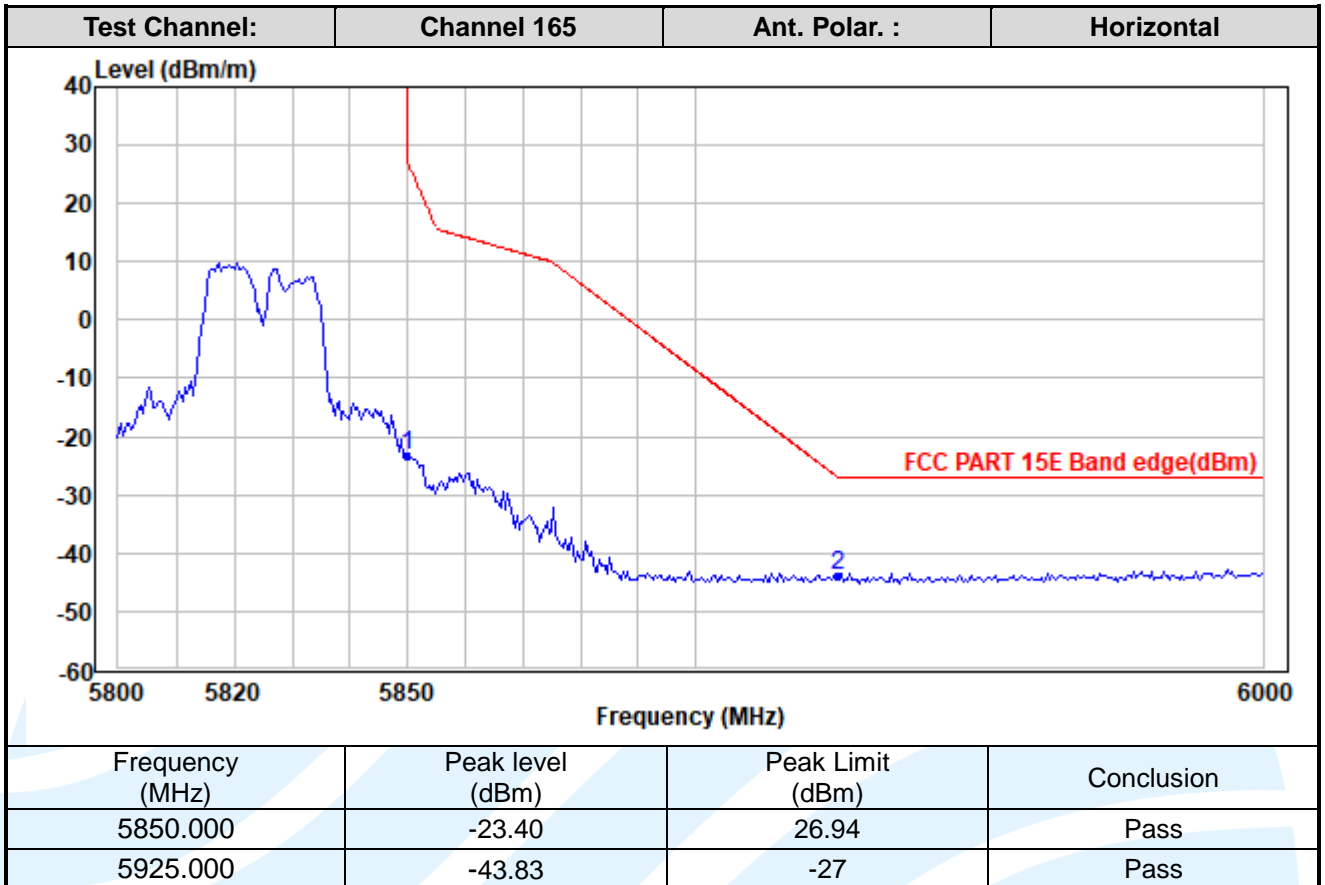
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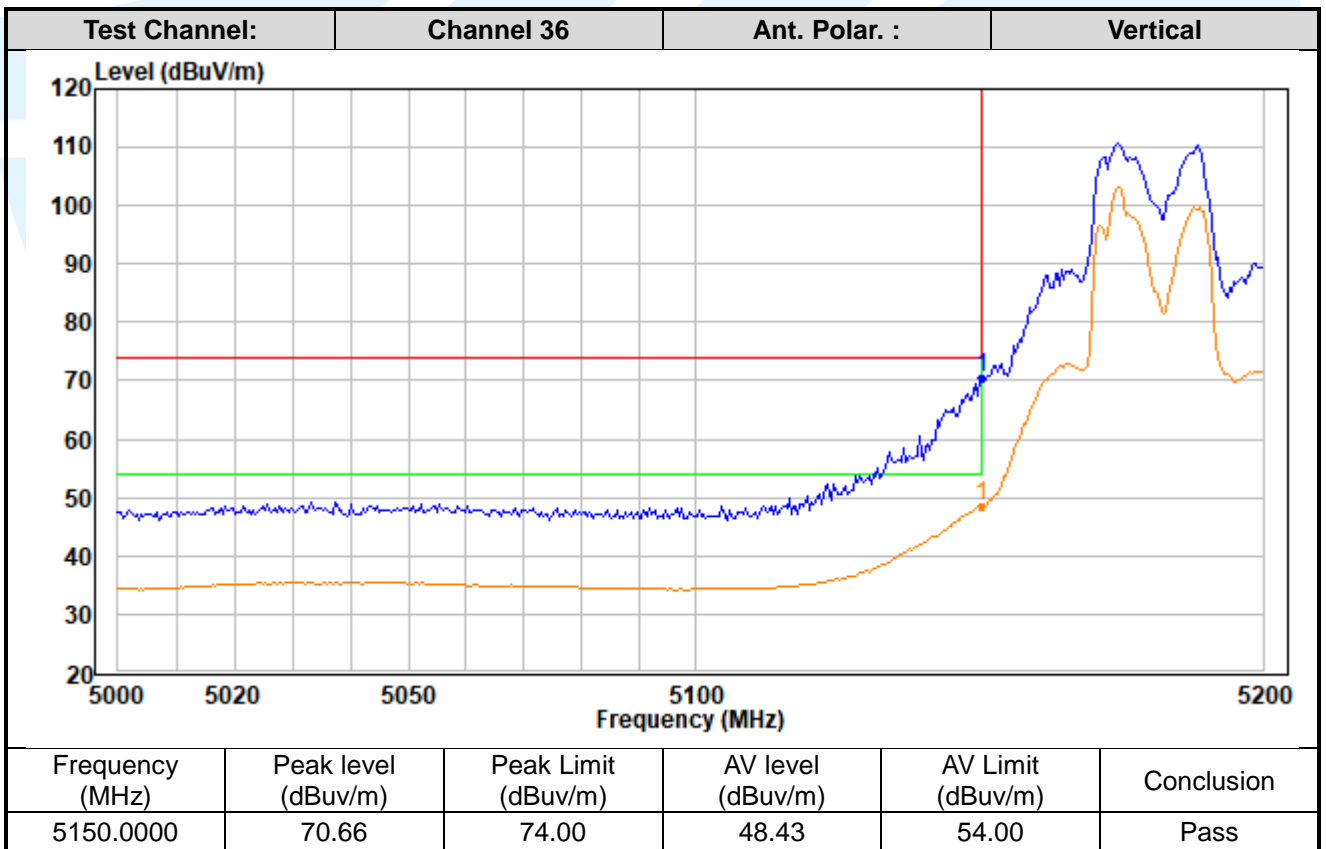
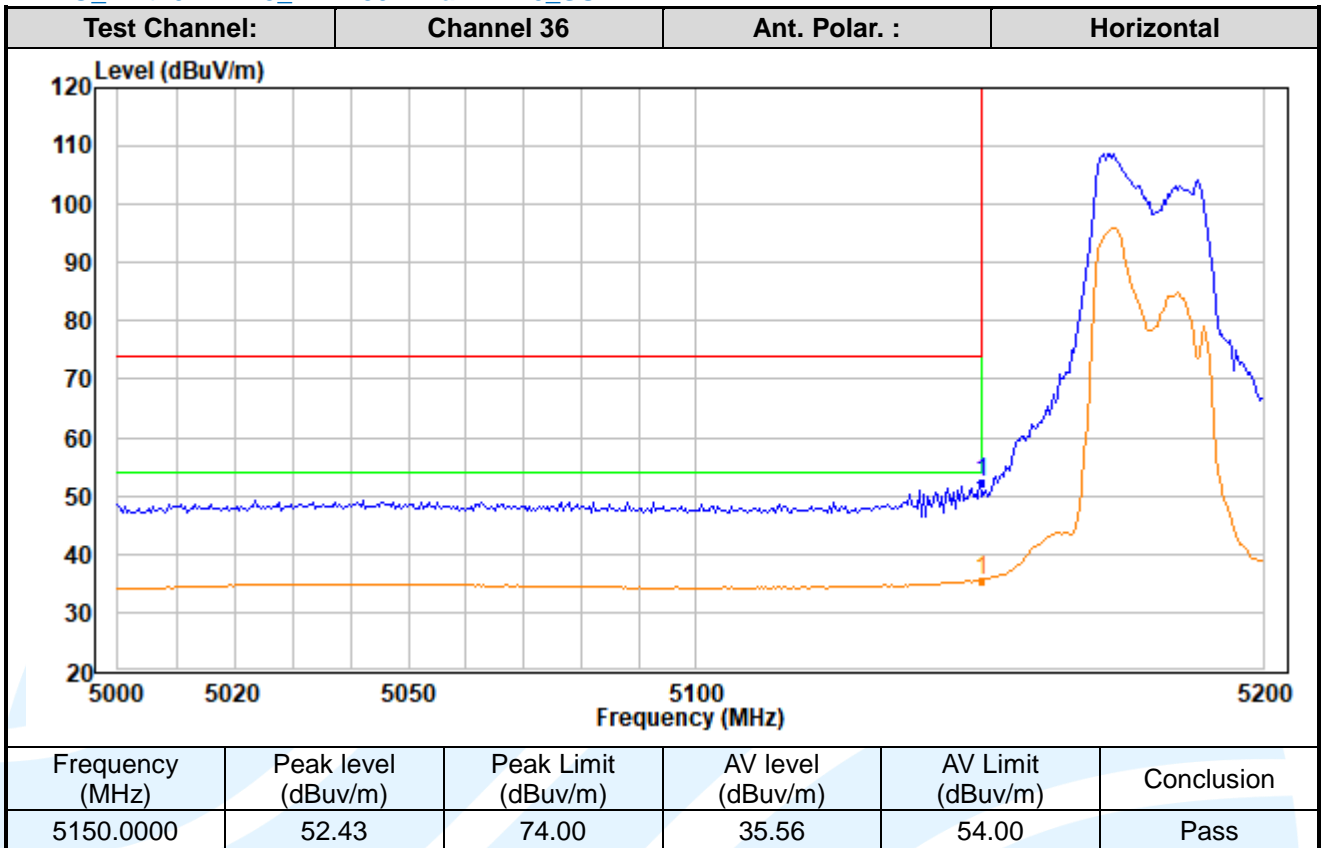
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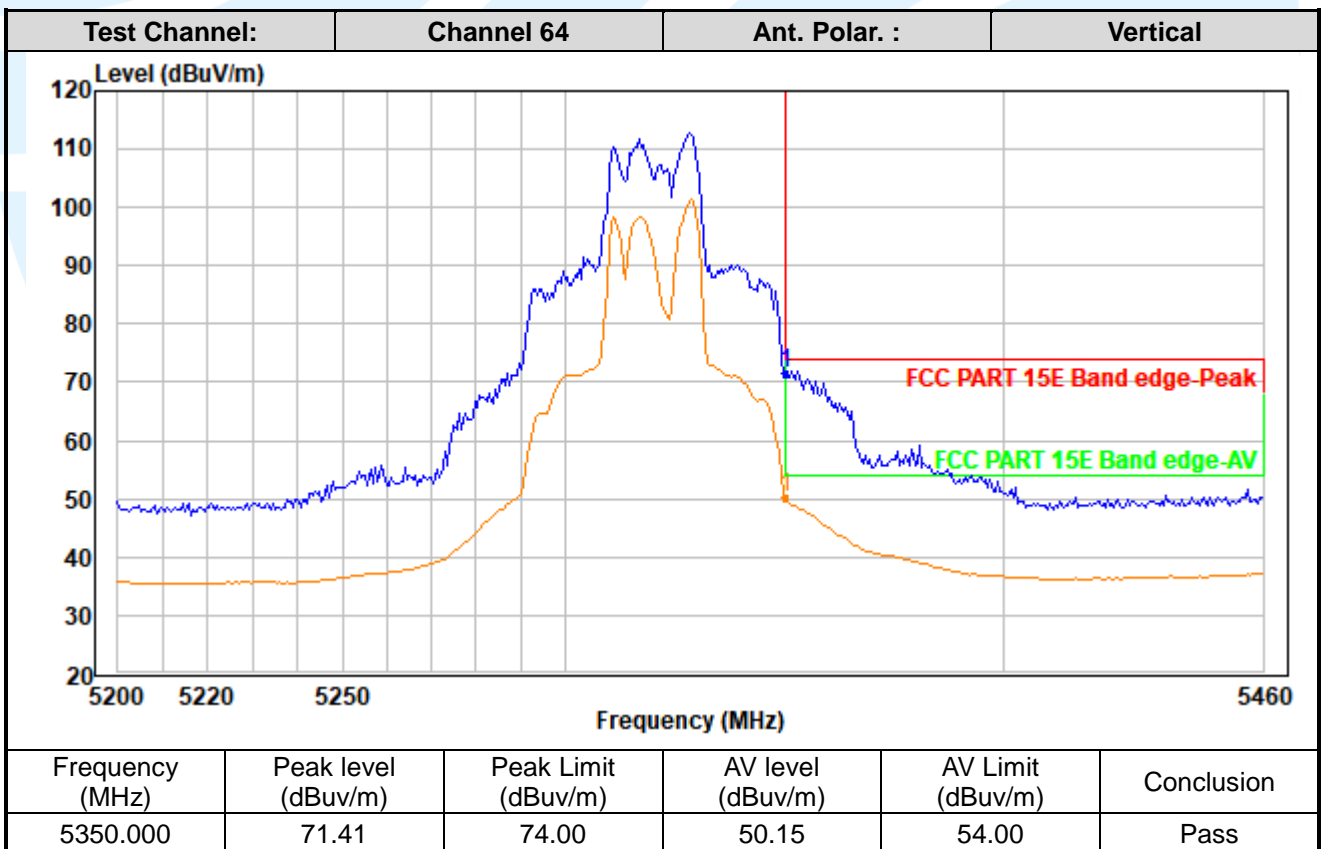
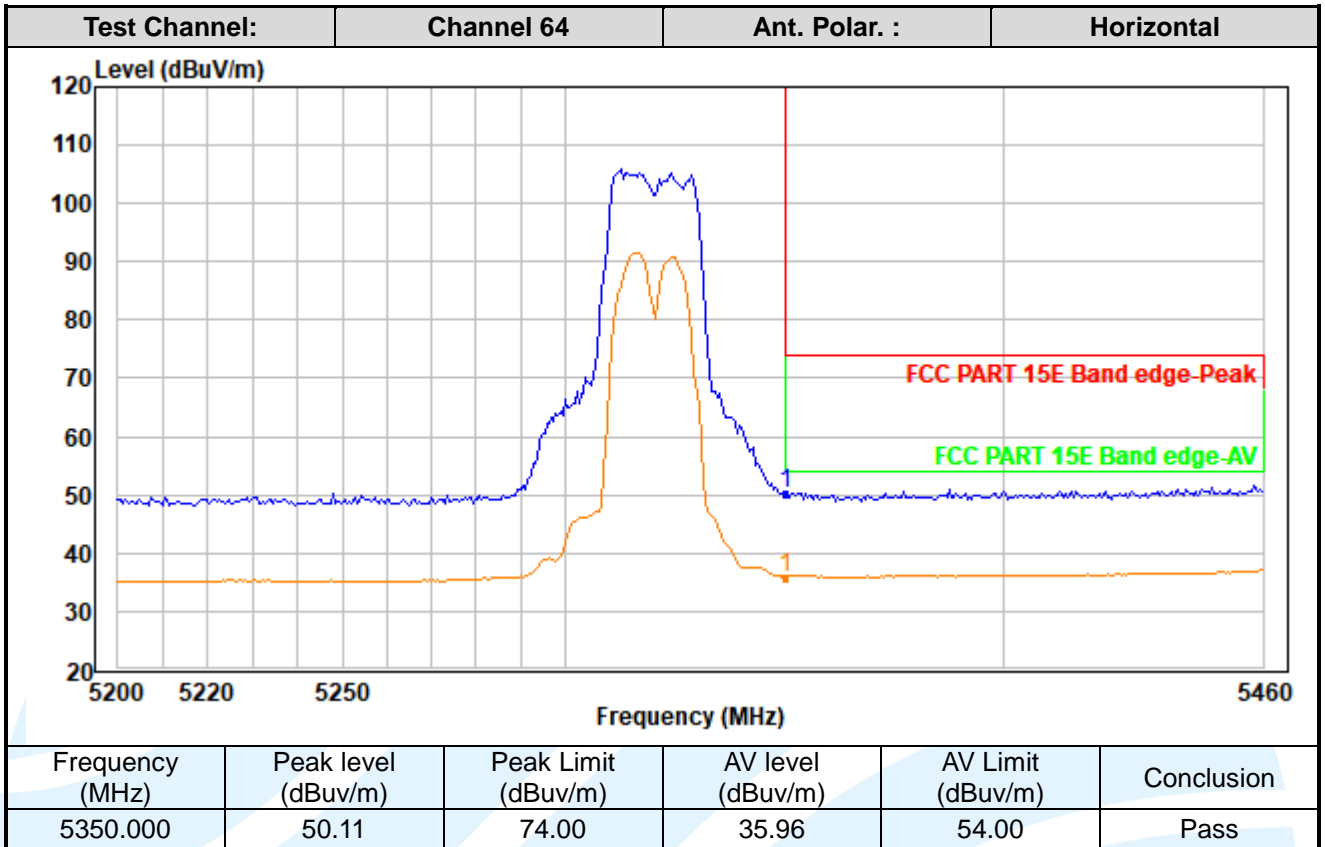
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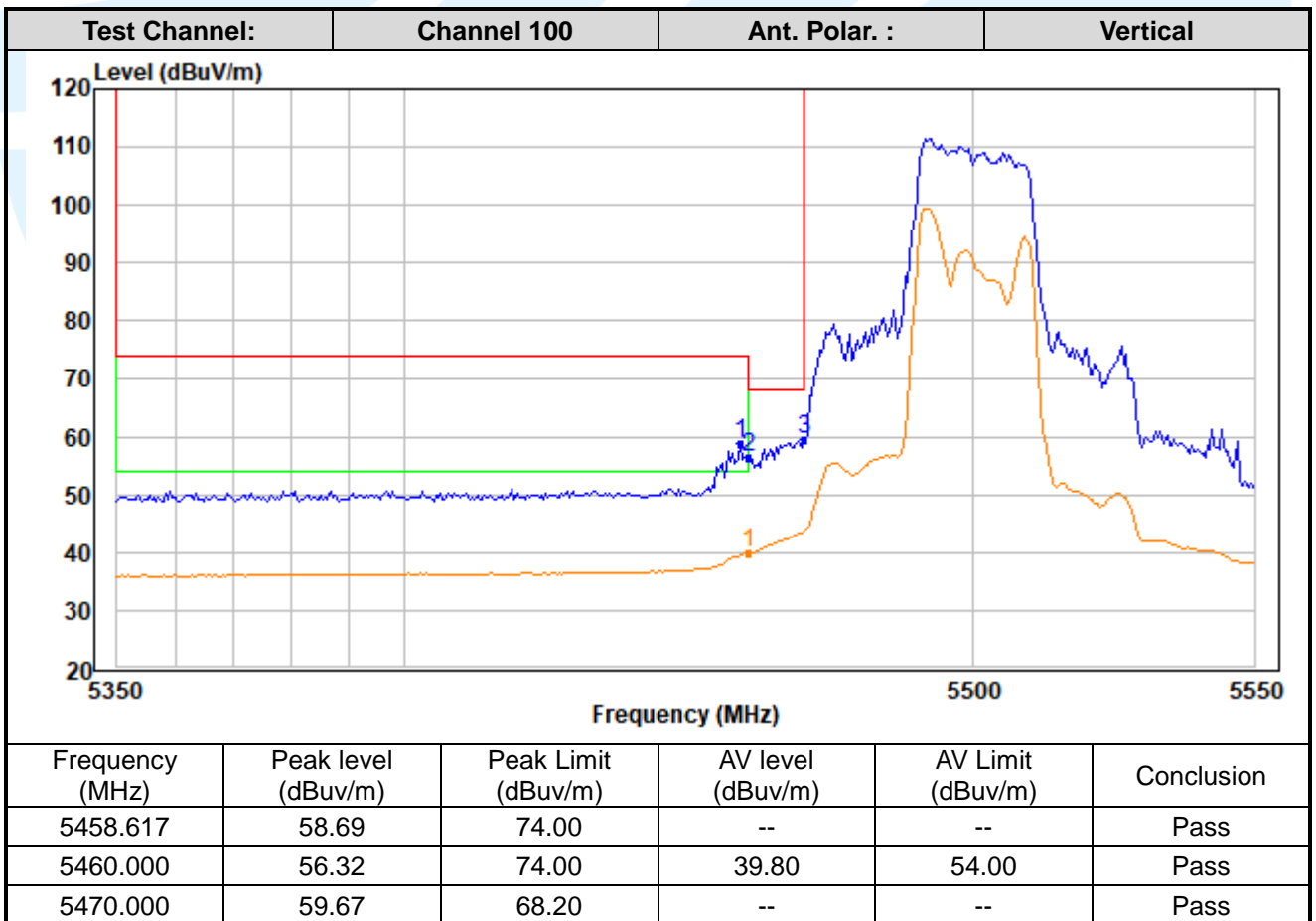
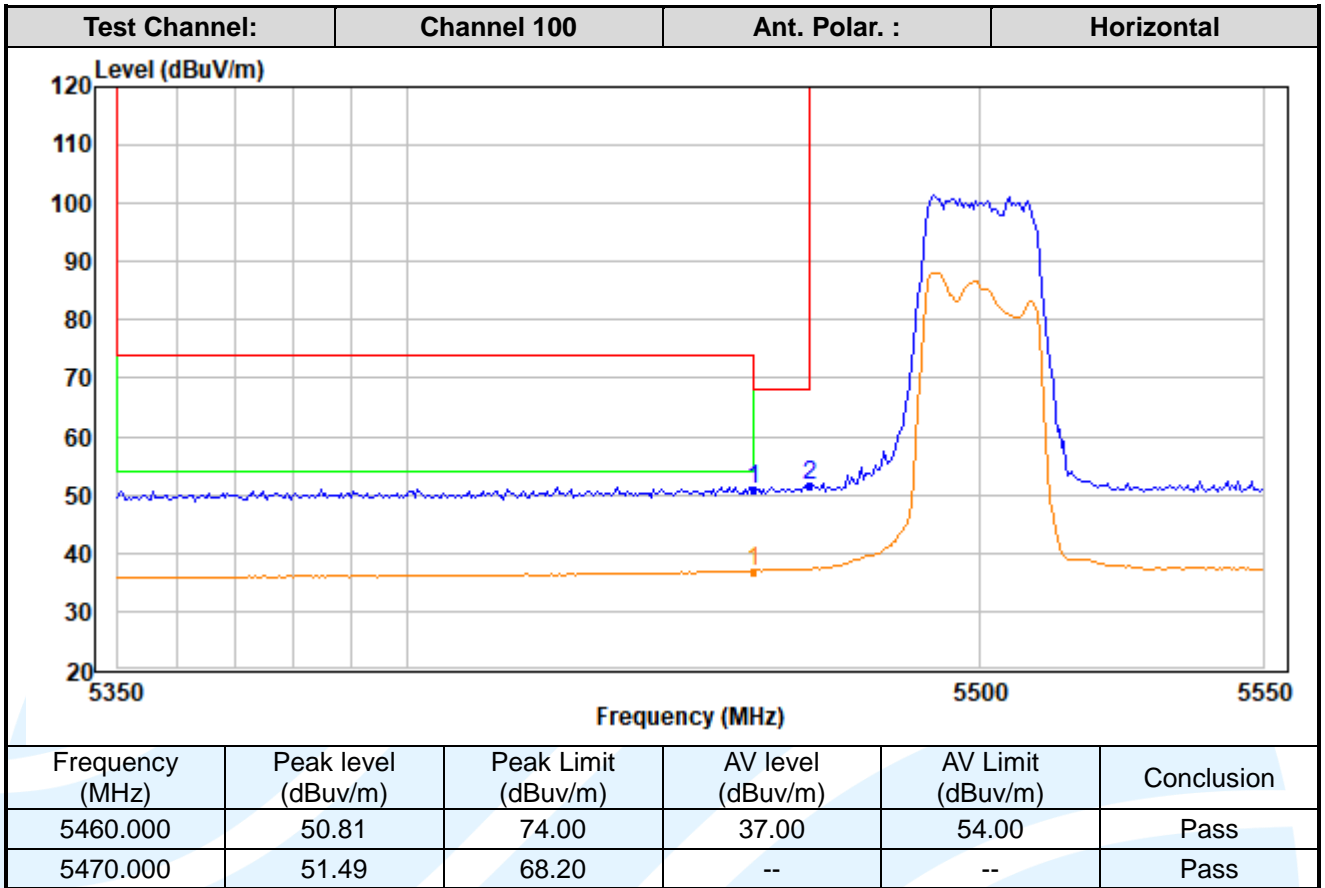
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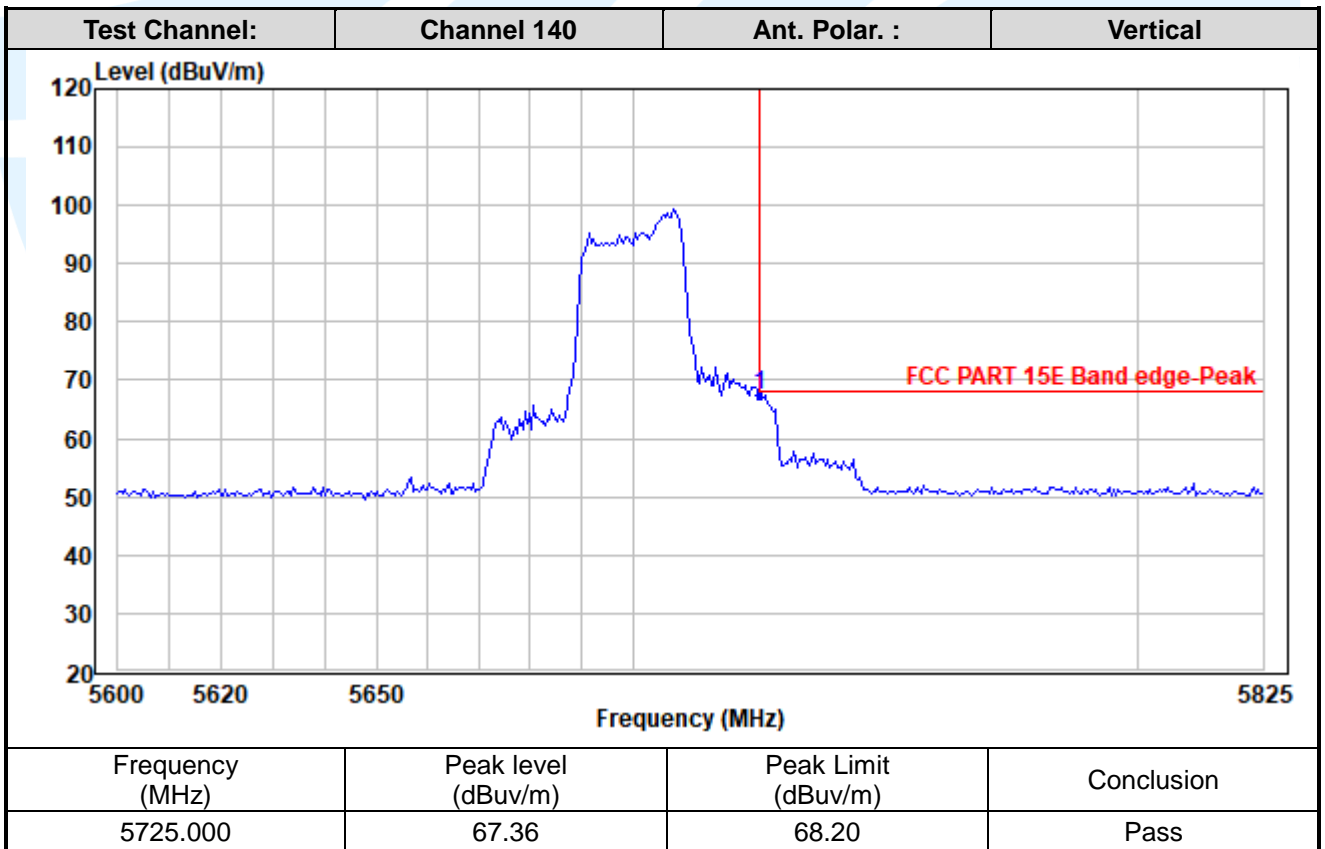
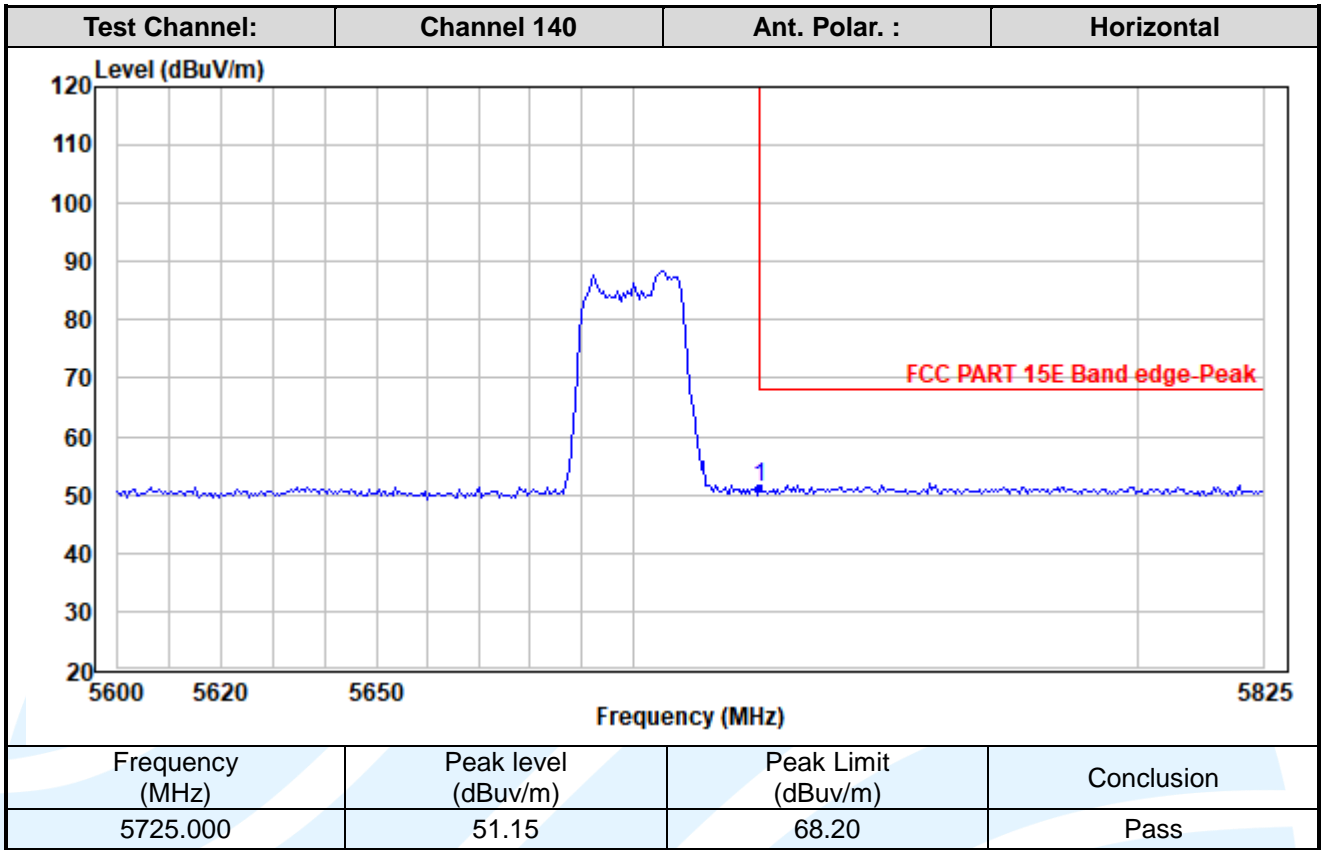
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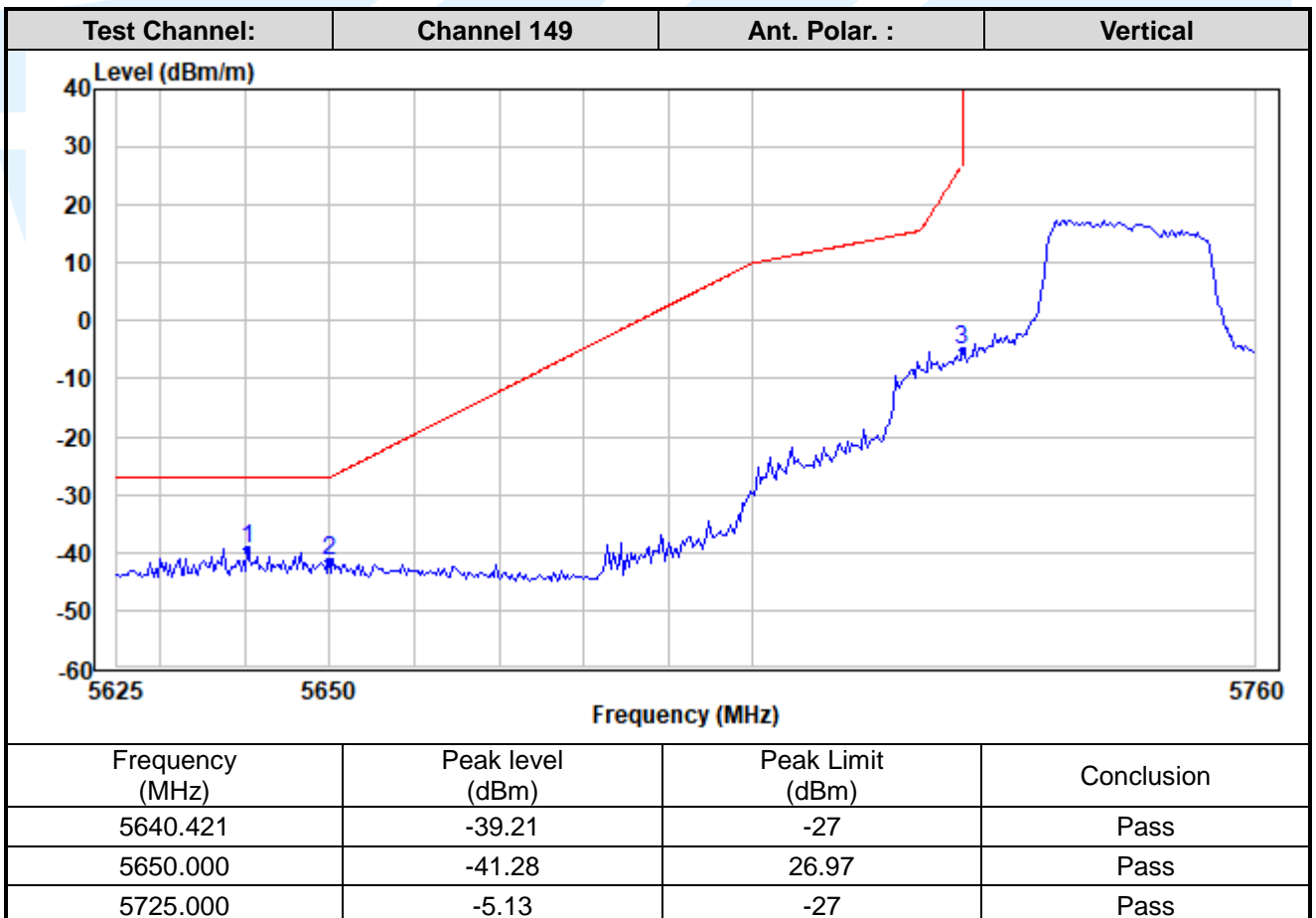
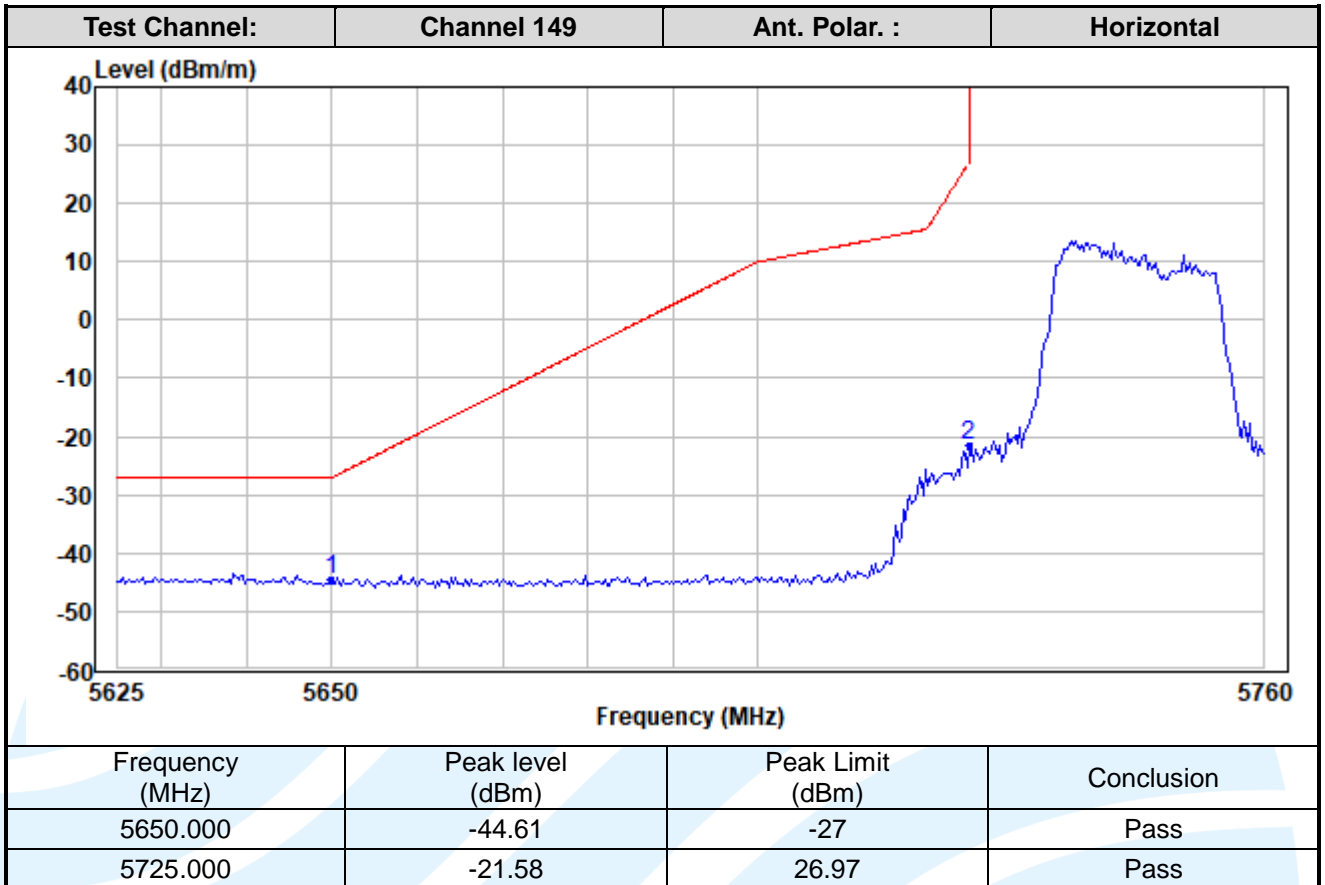
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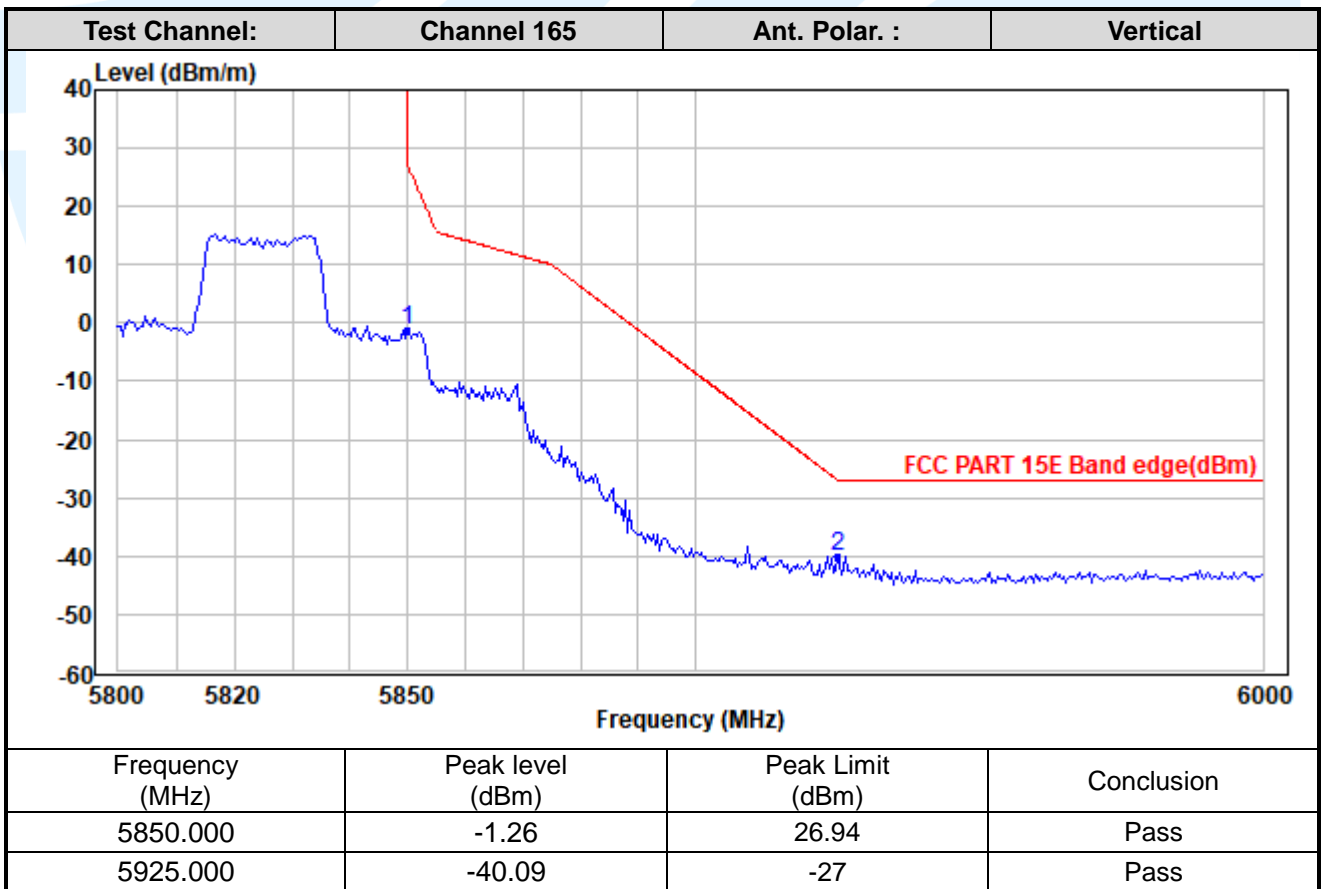
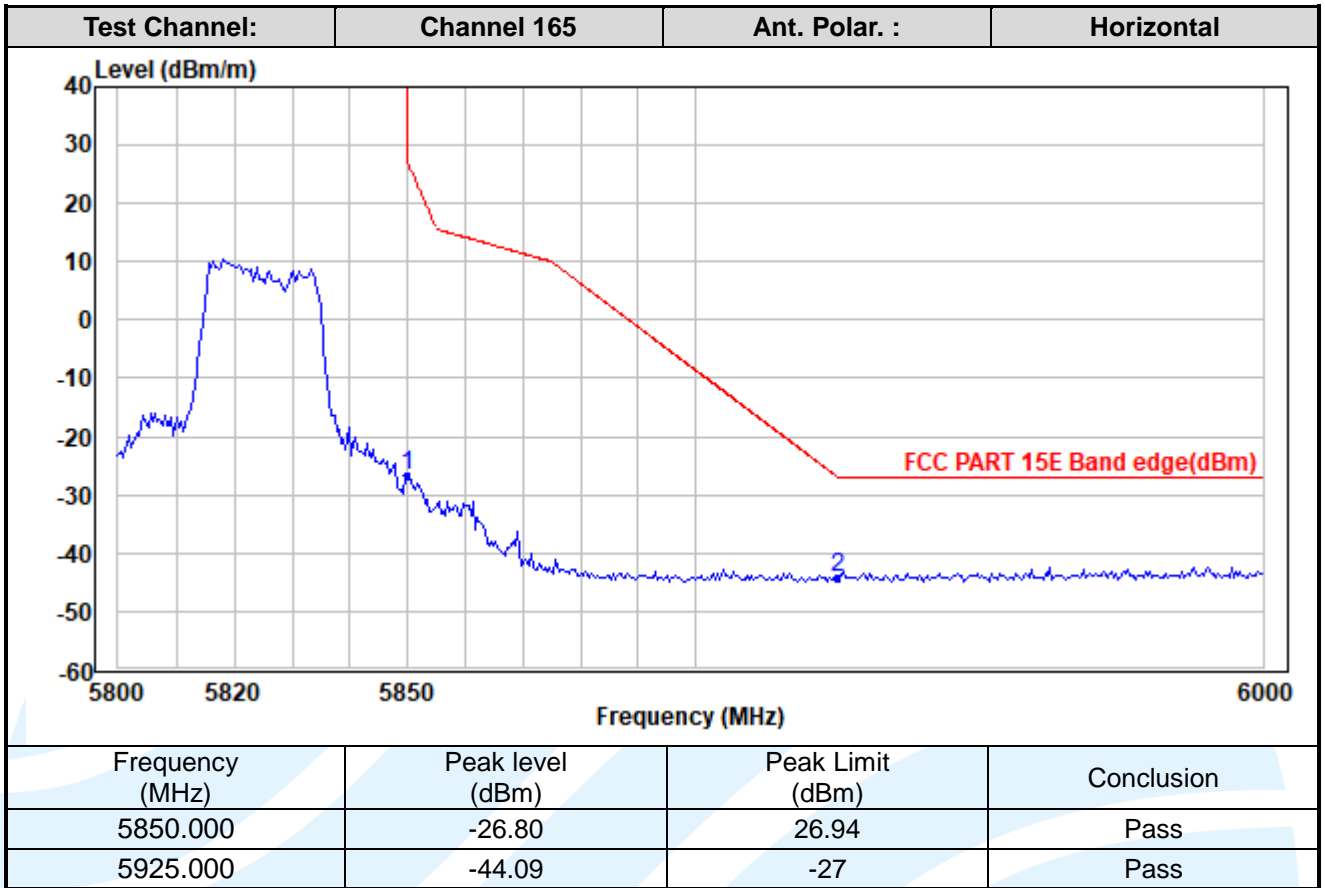
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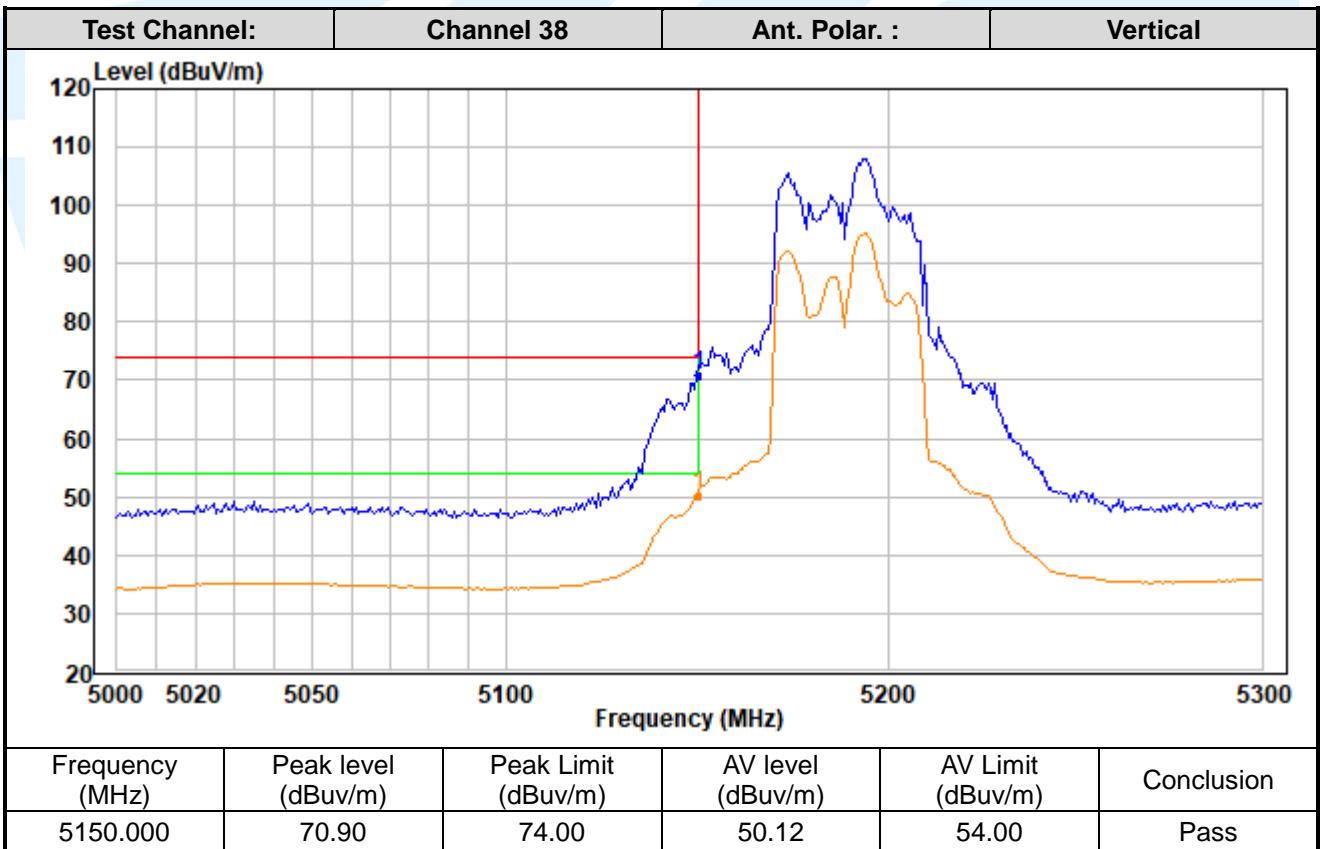
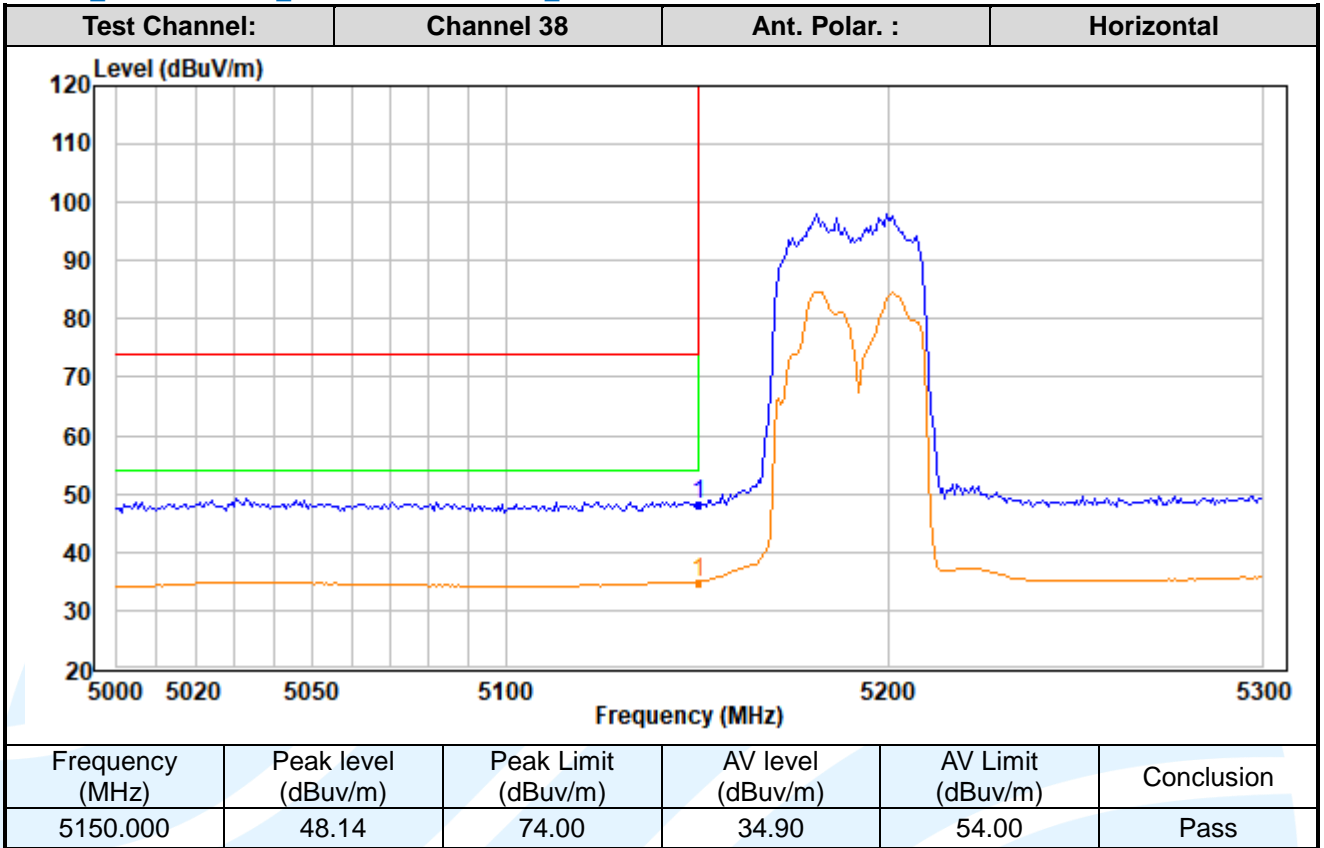
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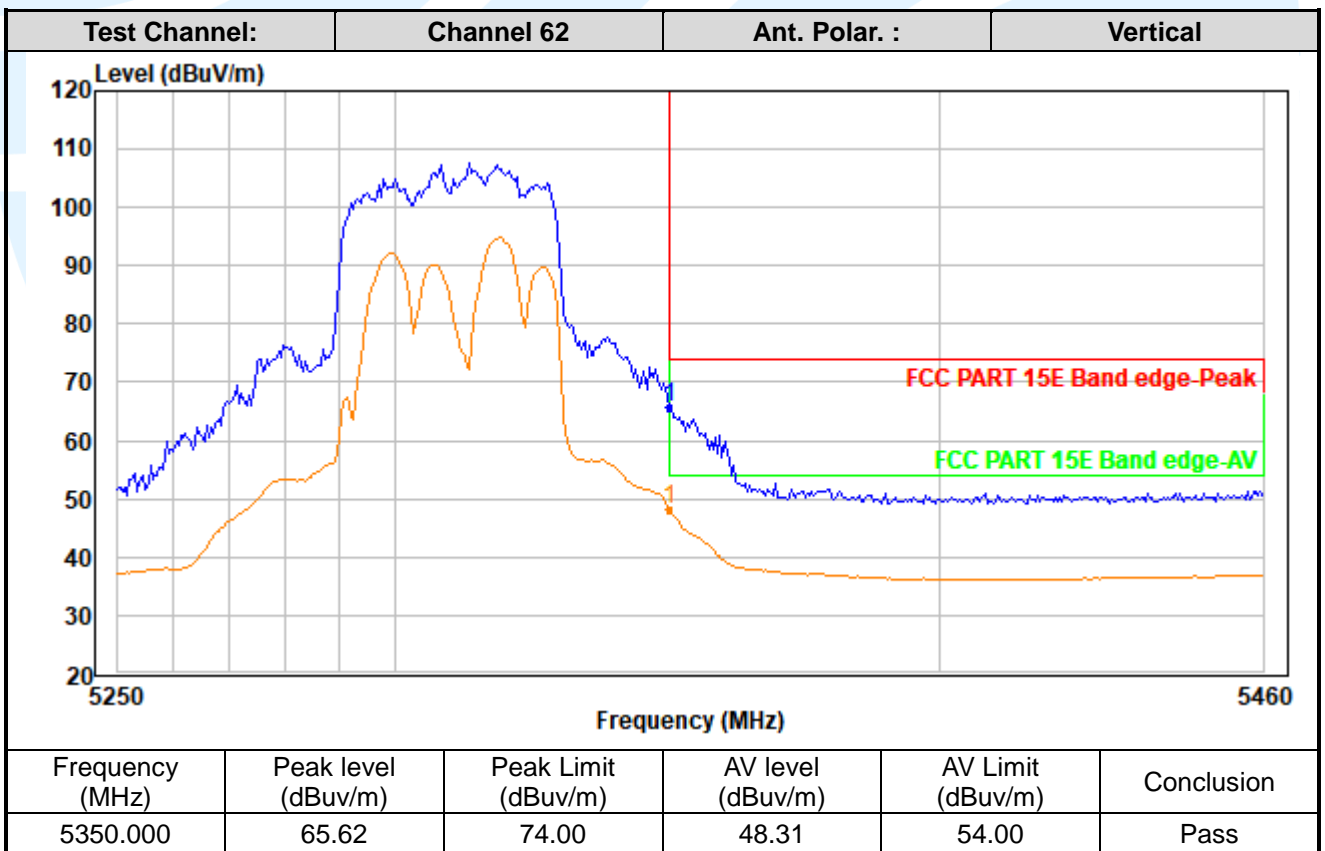
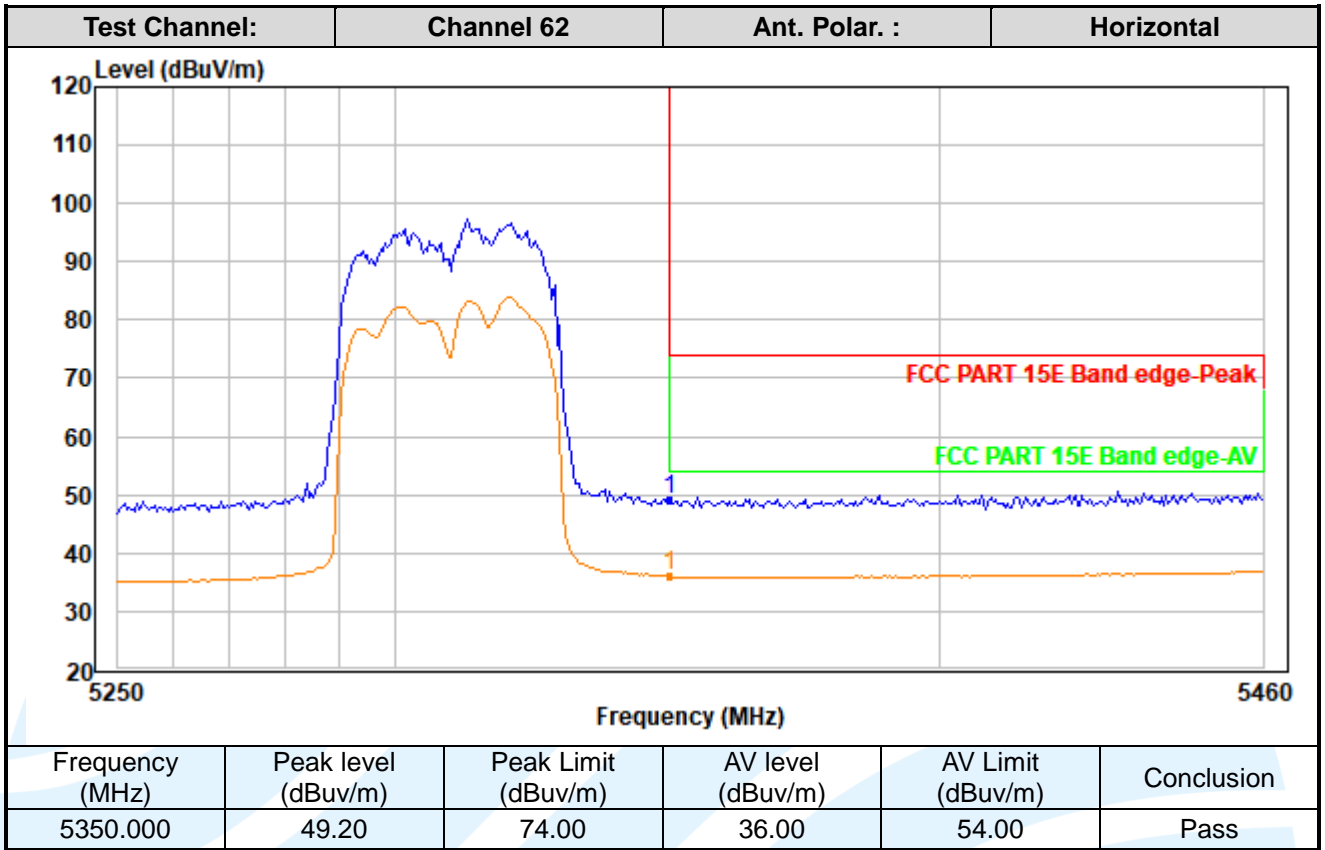
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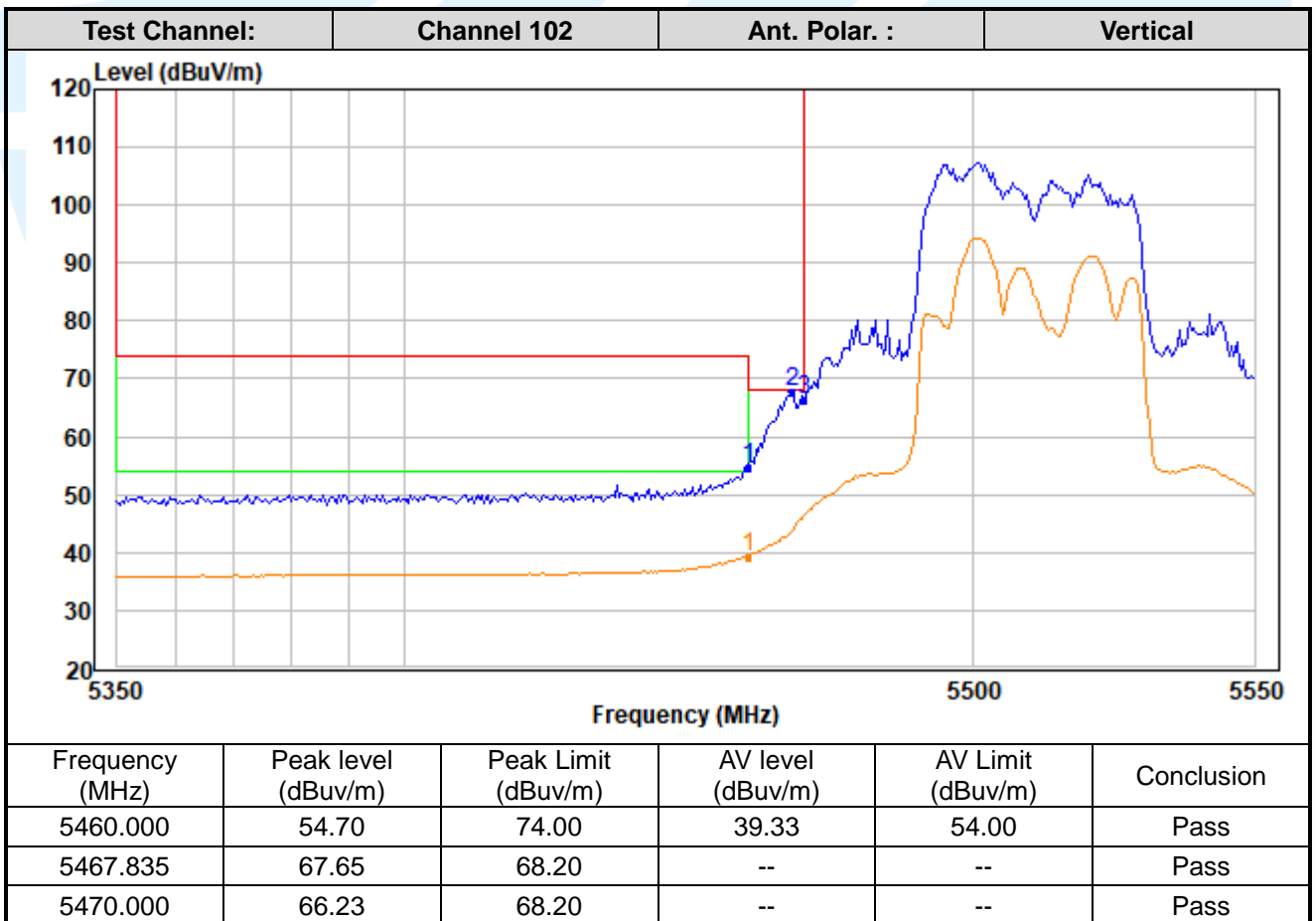
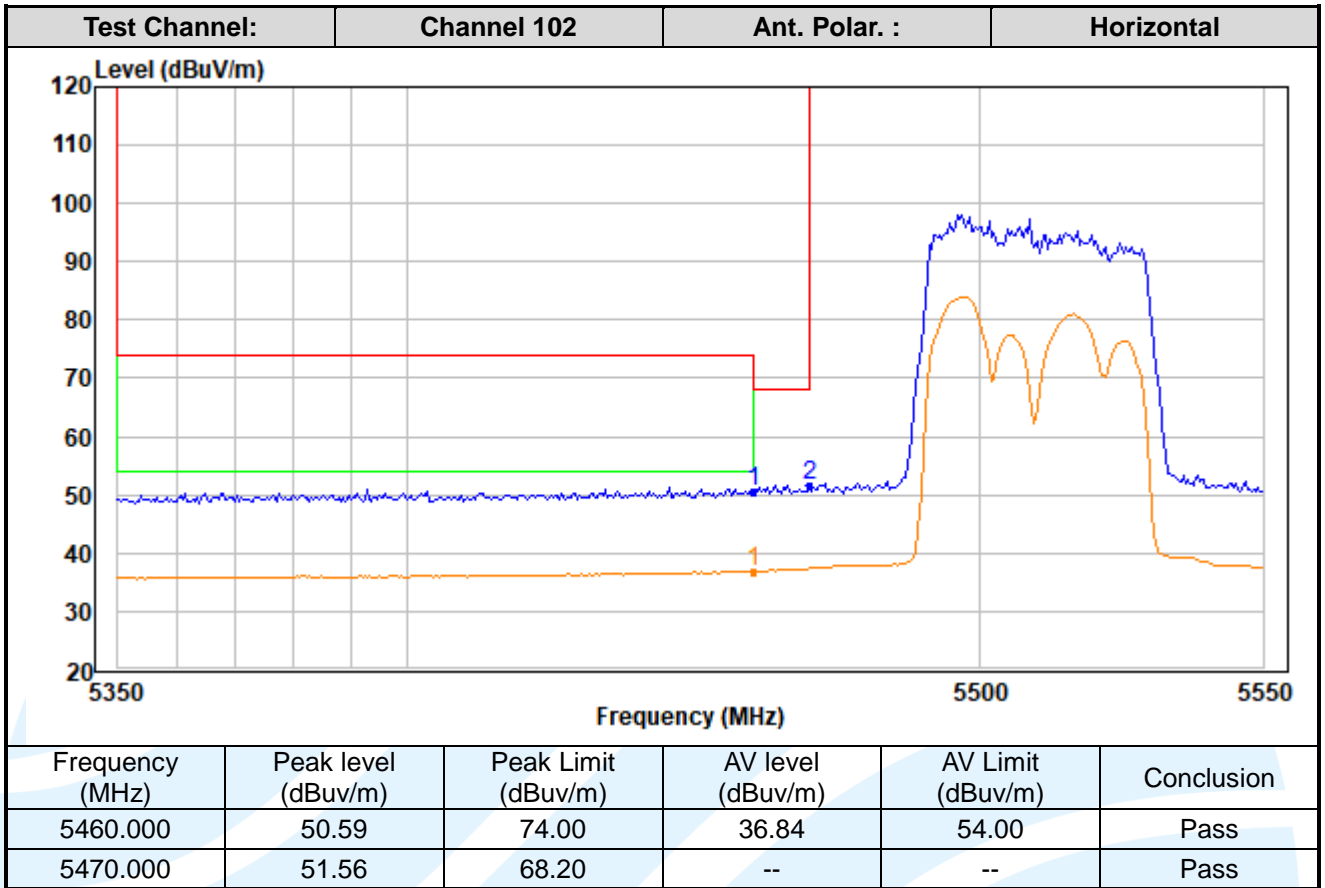
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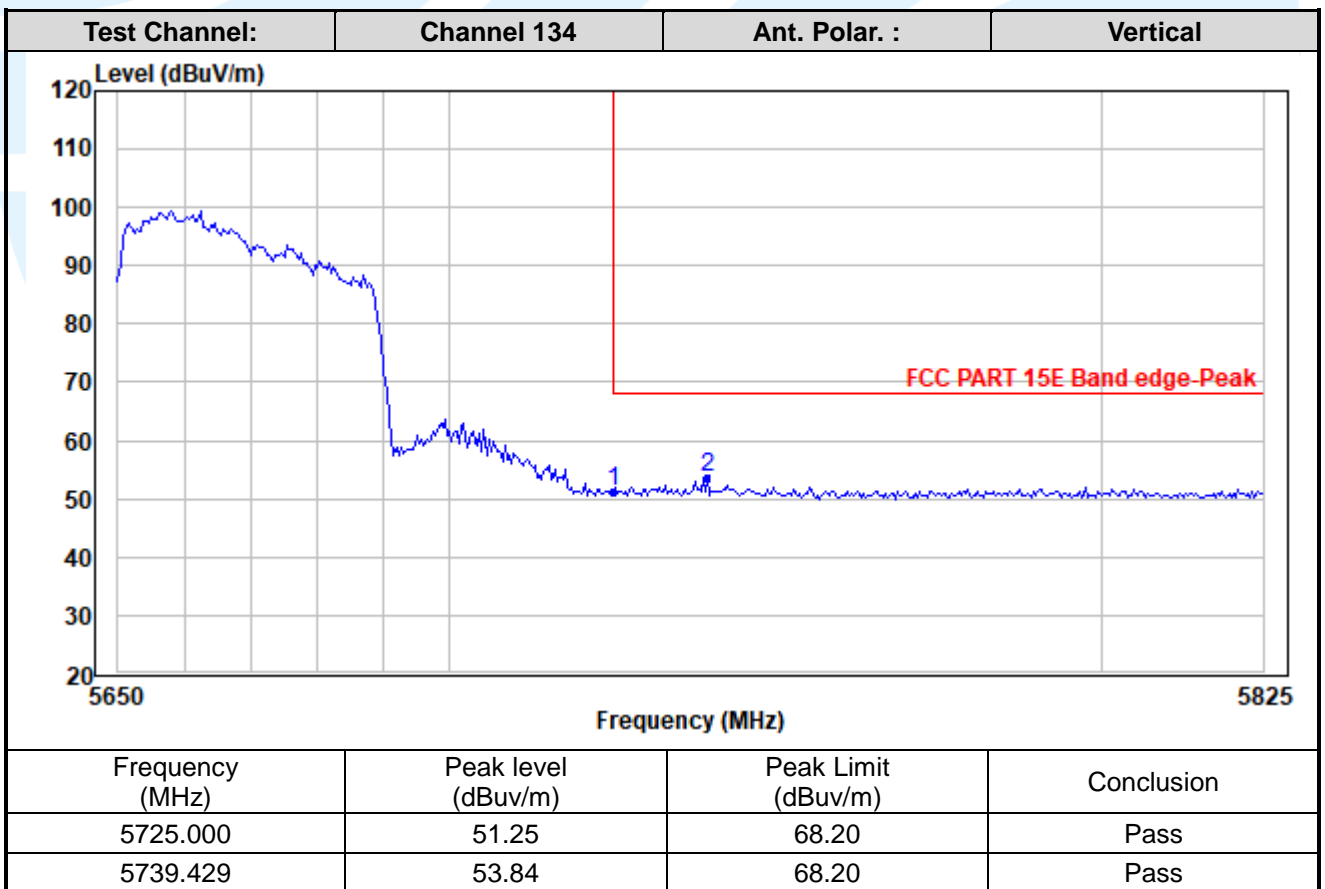
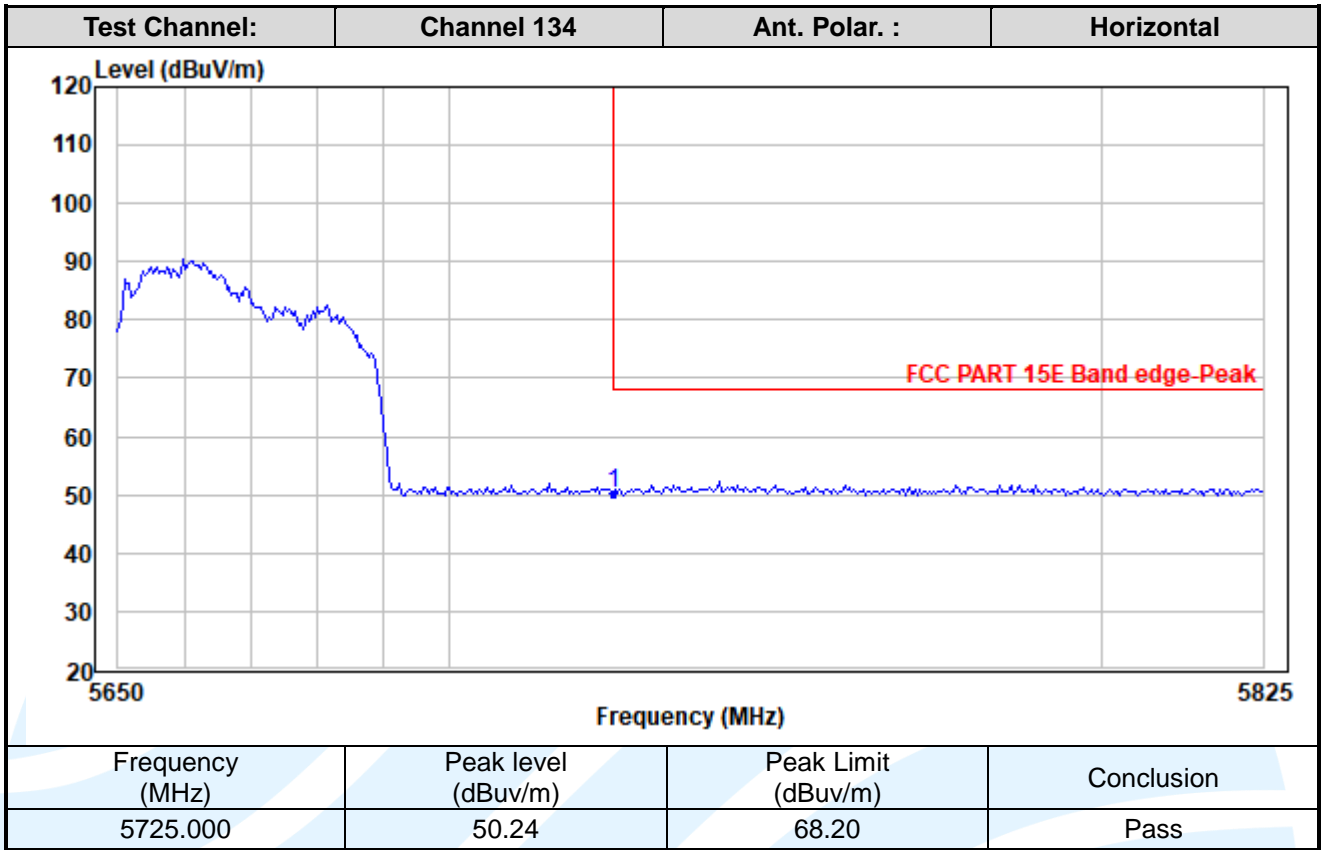
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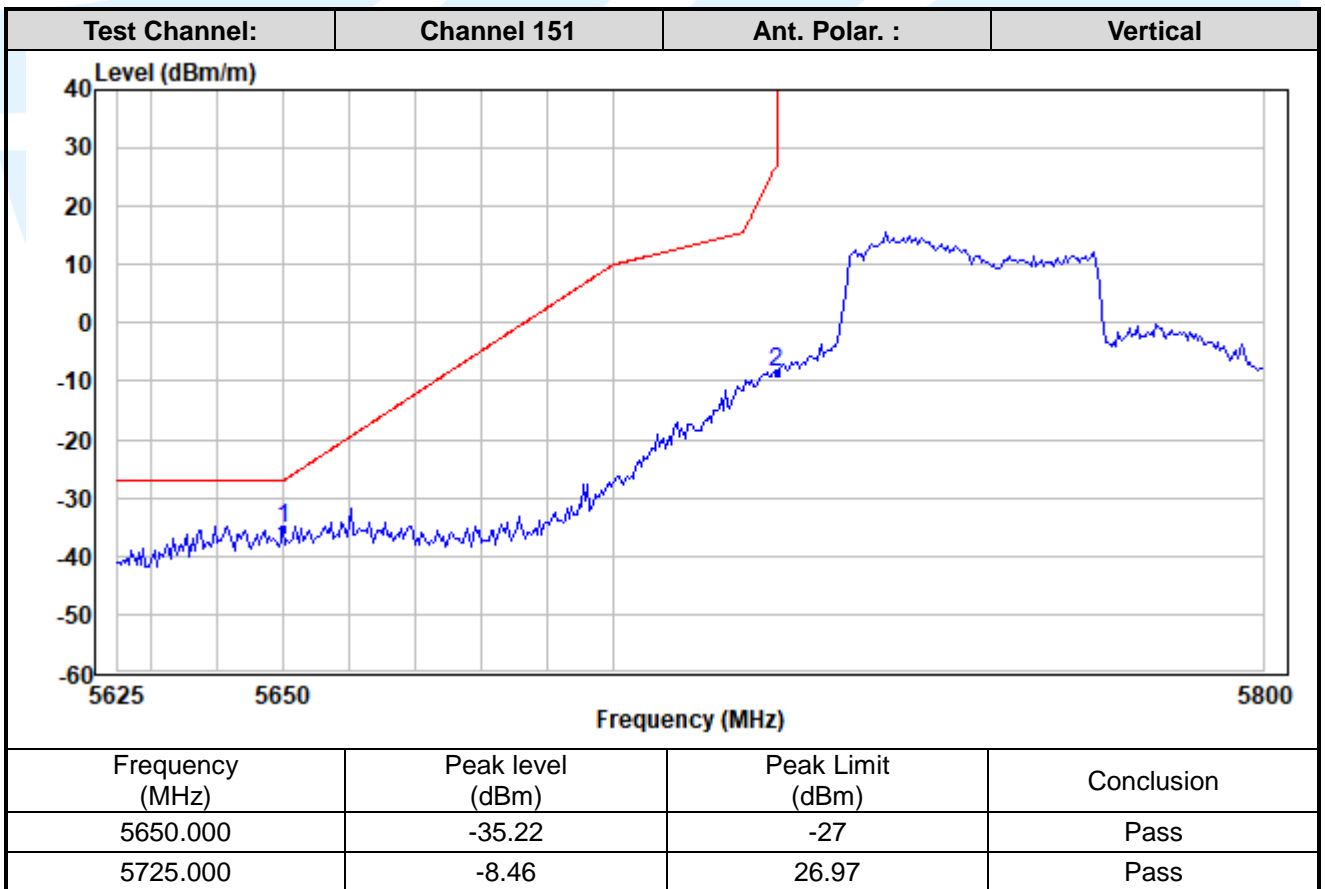
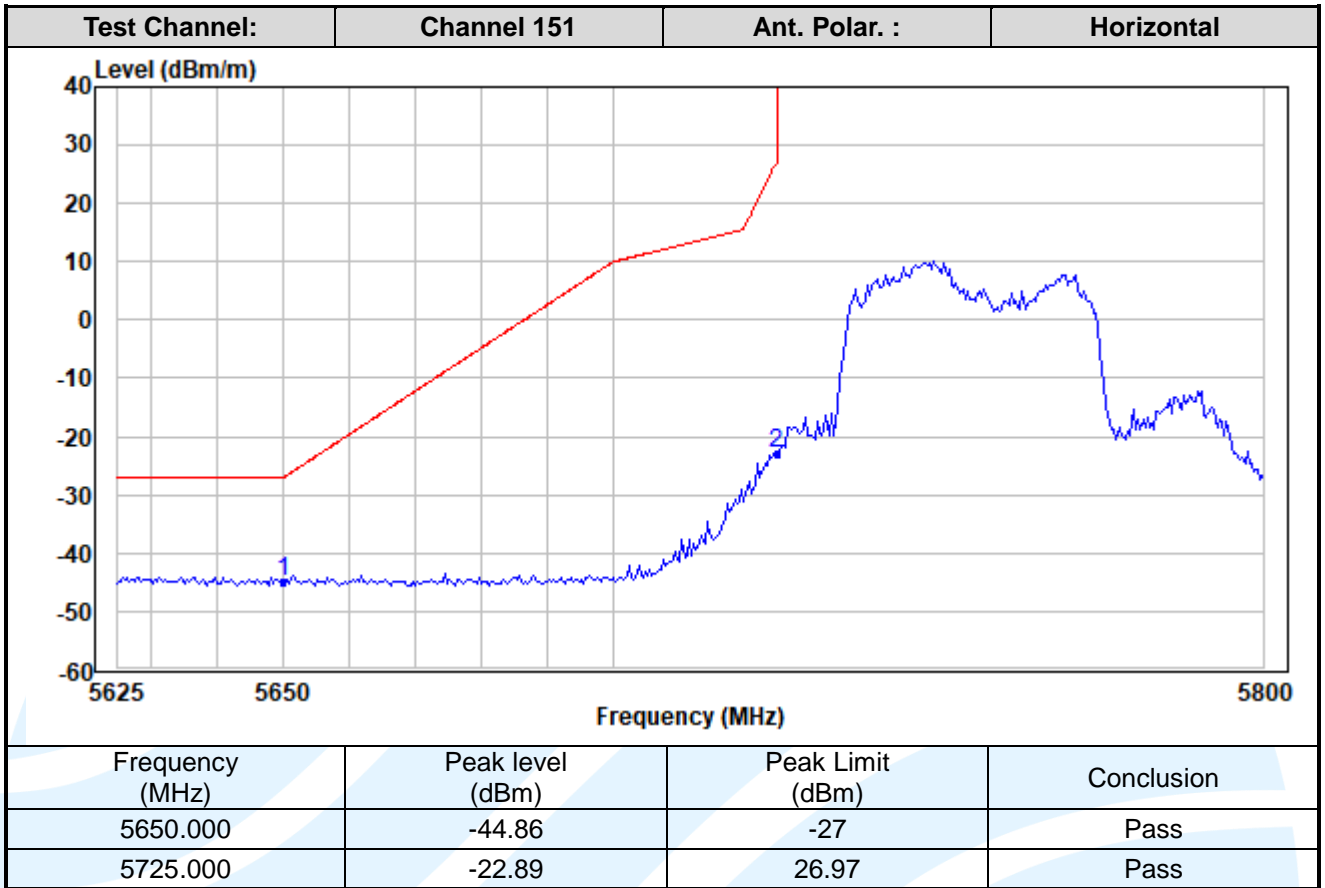
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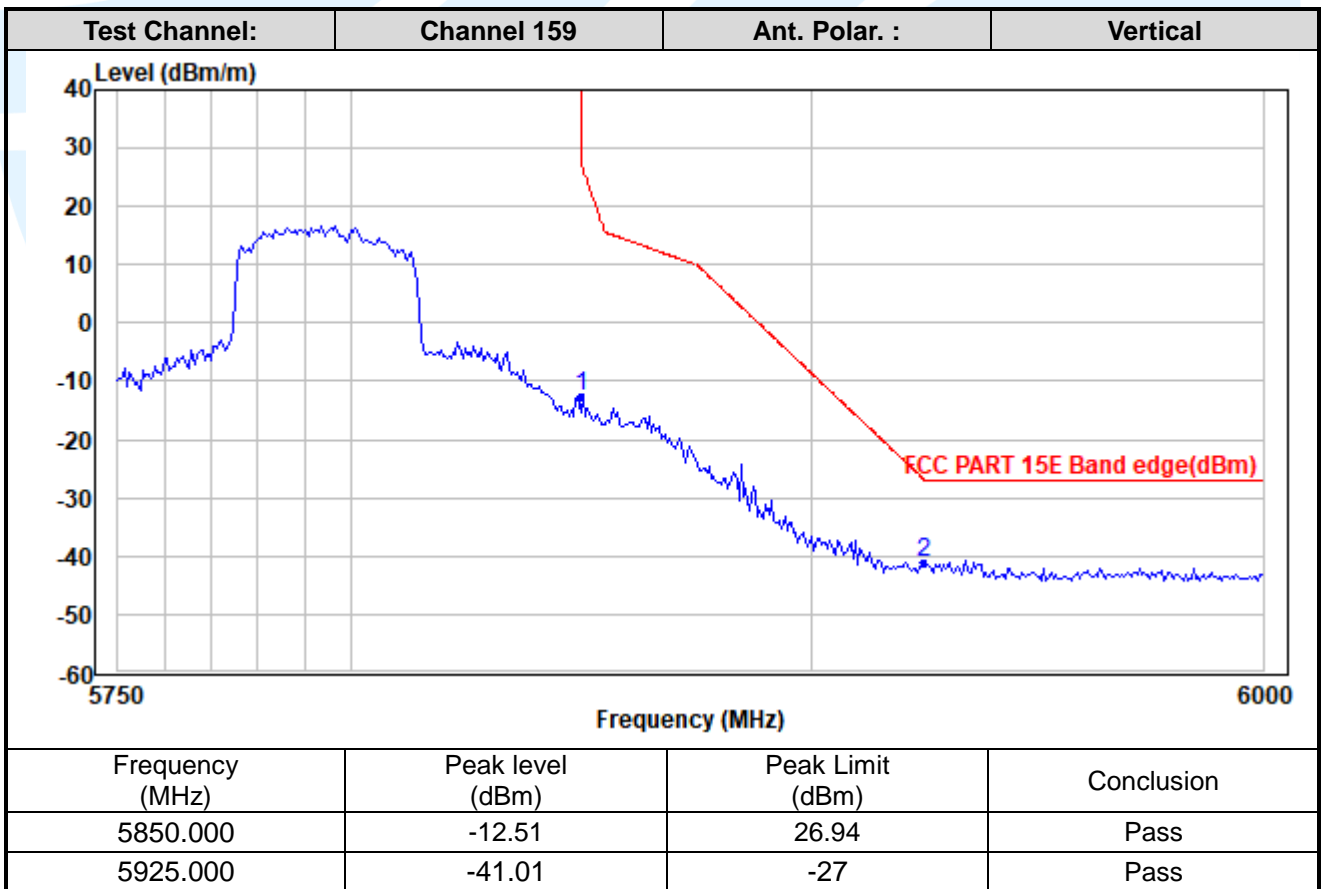
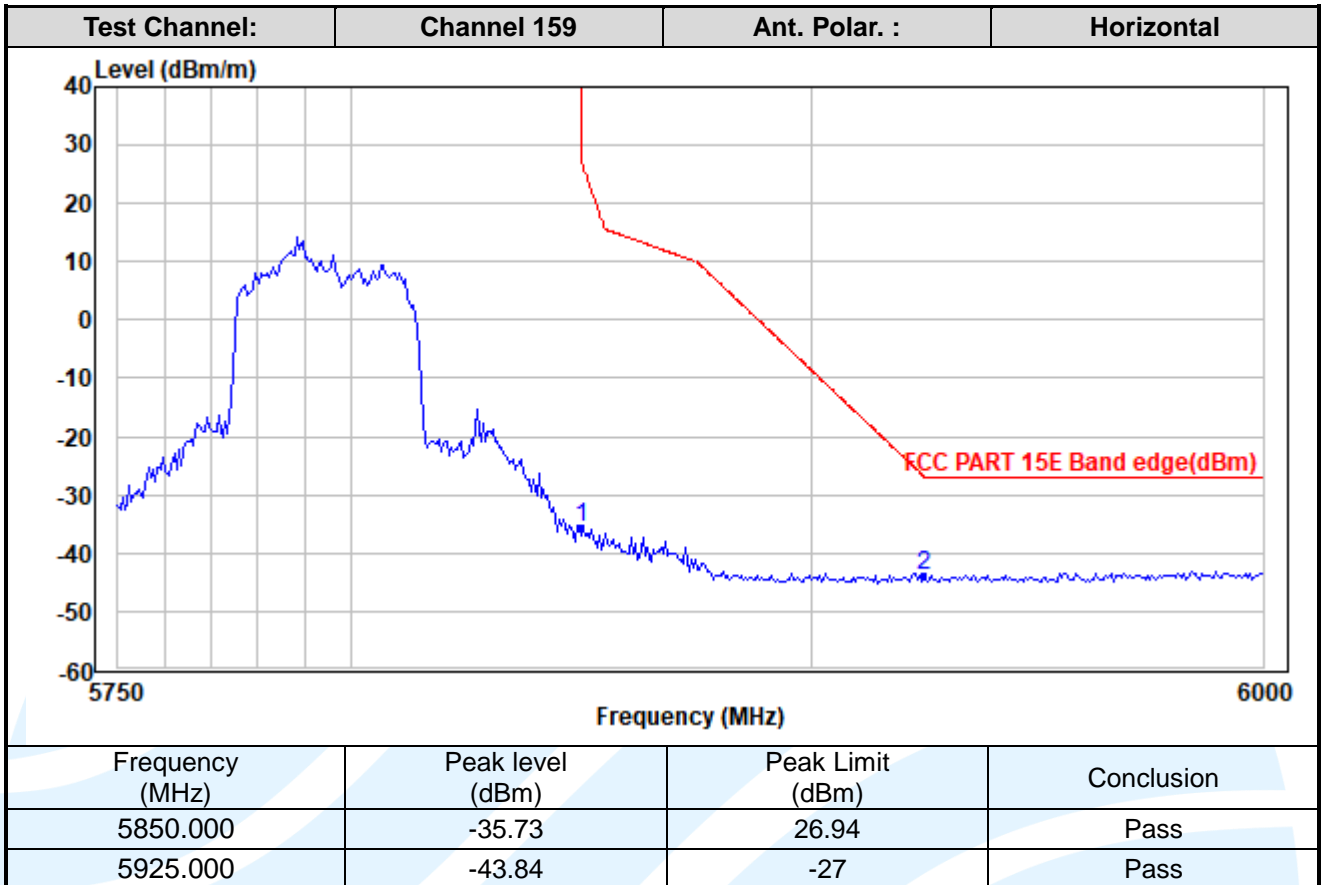
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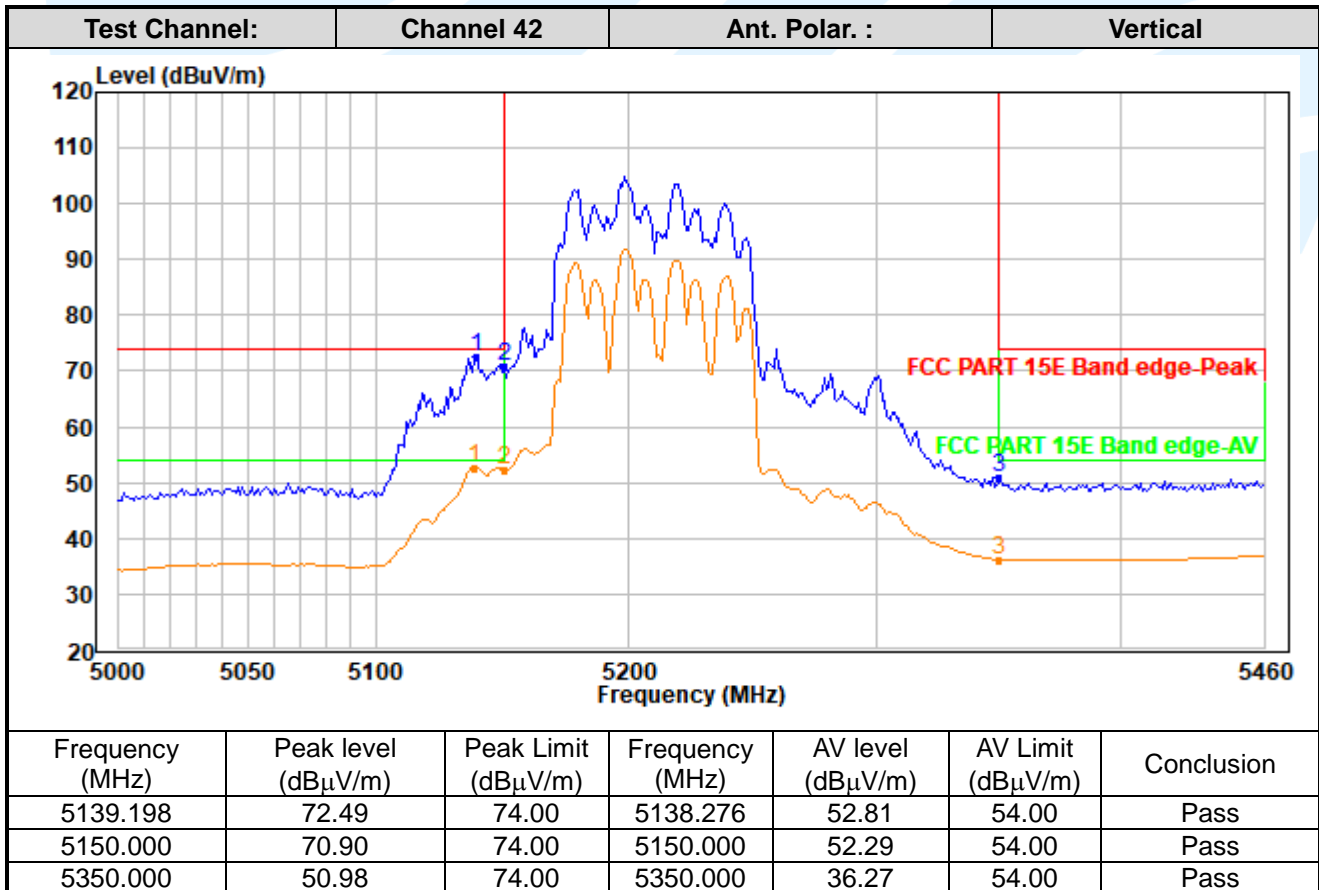
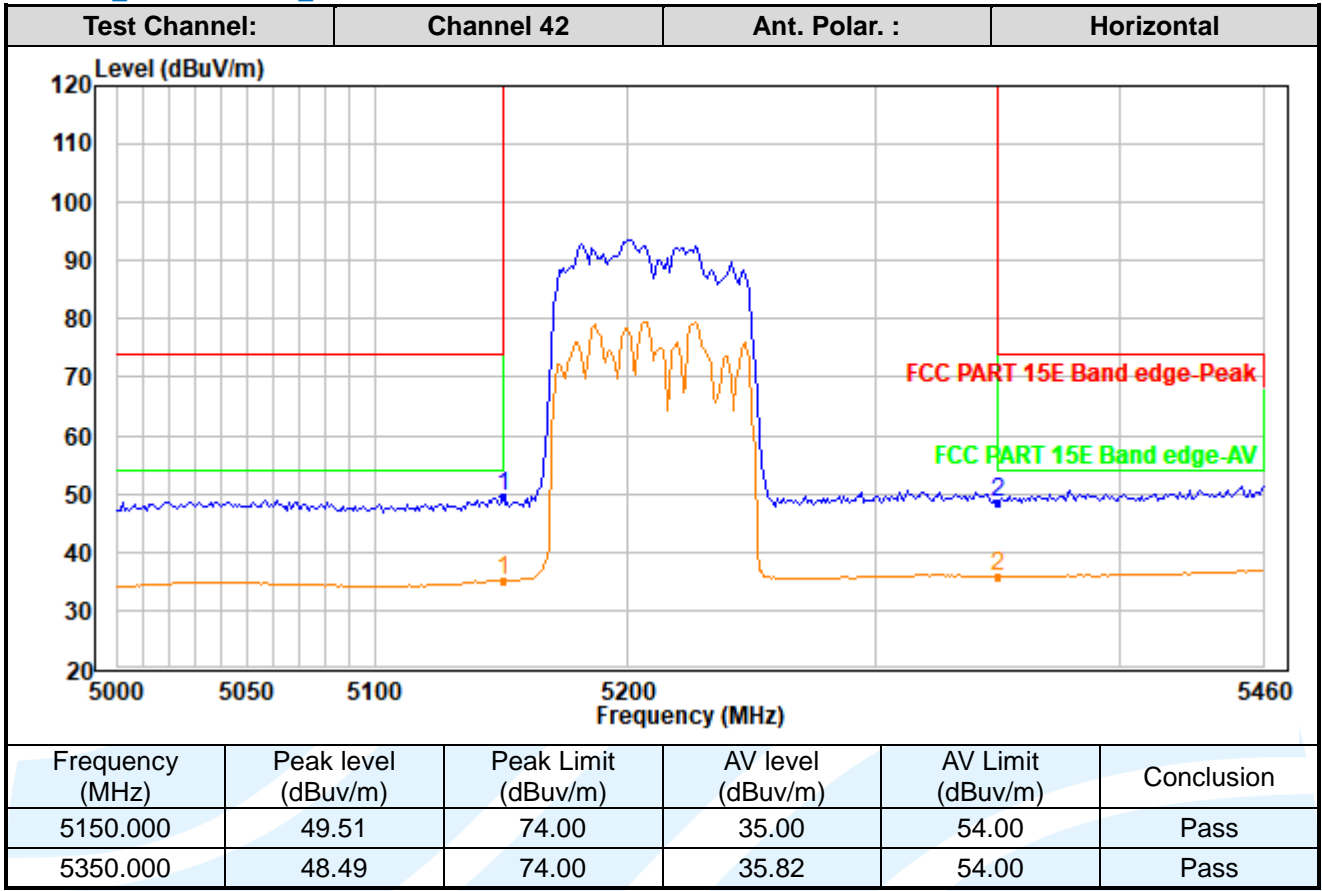
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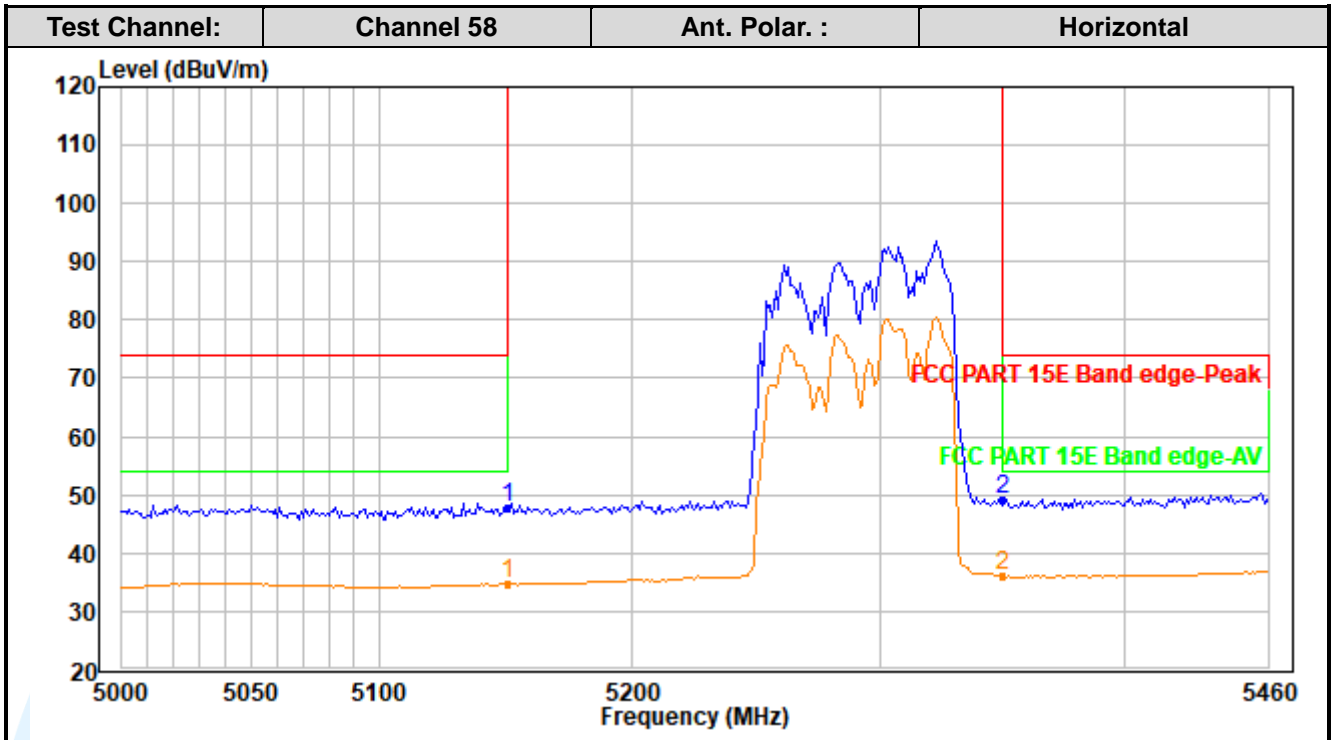
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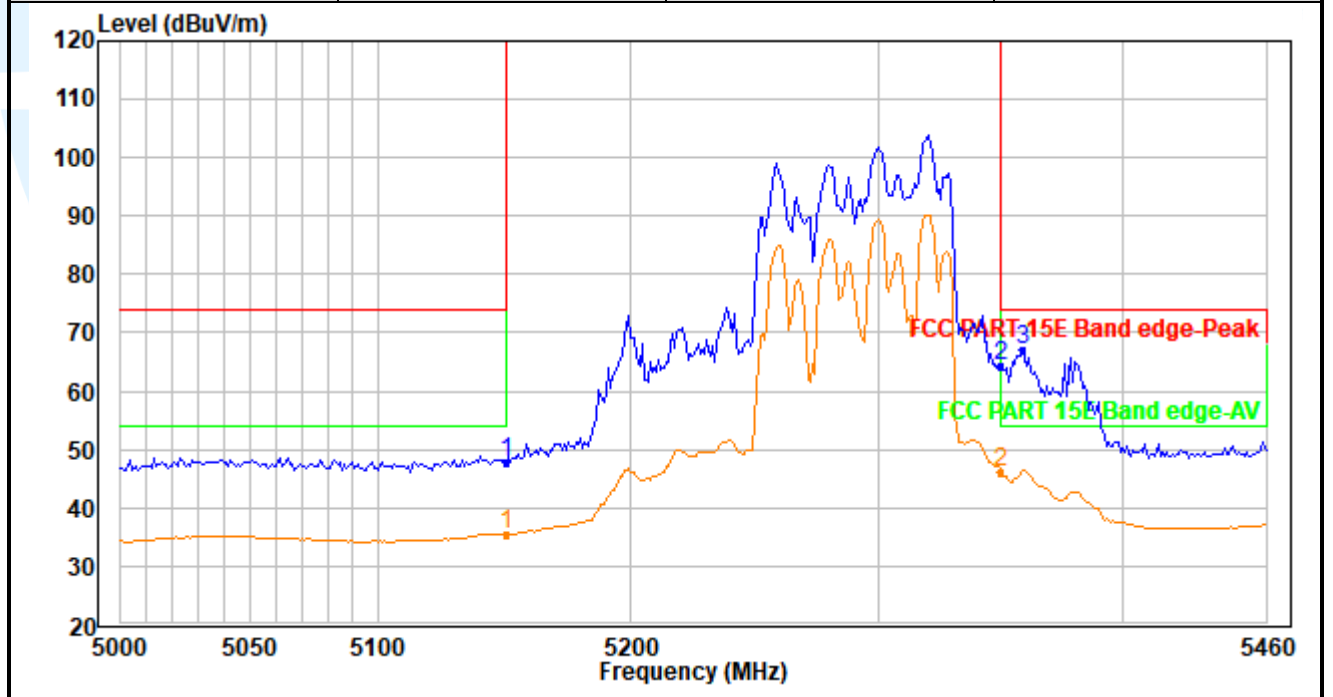
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	47.96	74.00	34.61	54.00	Pass
5350.000	49.09	74.00	36.12	54.00	Pass

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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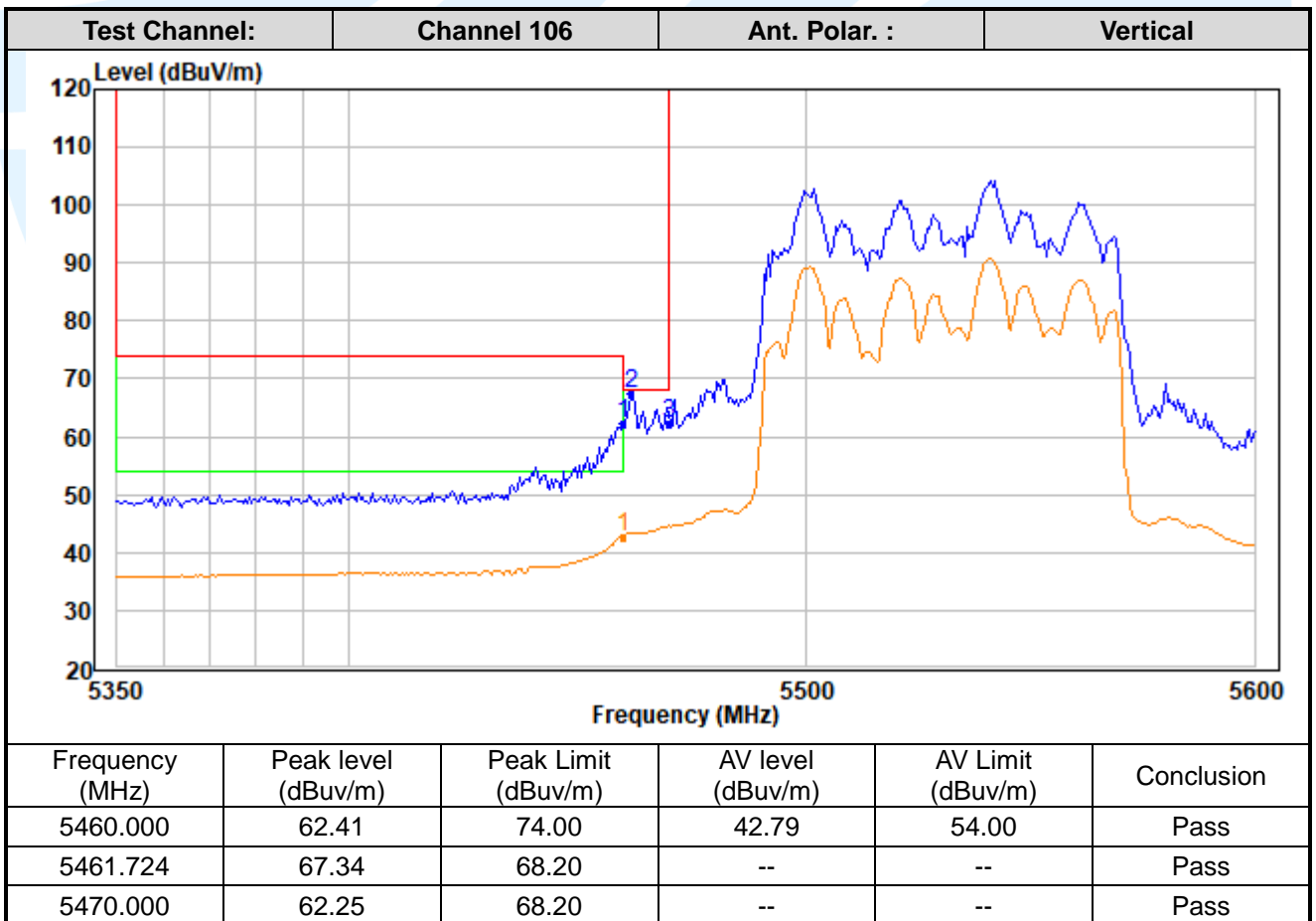
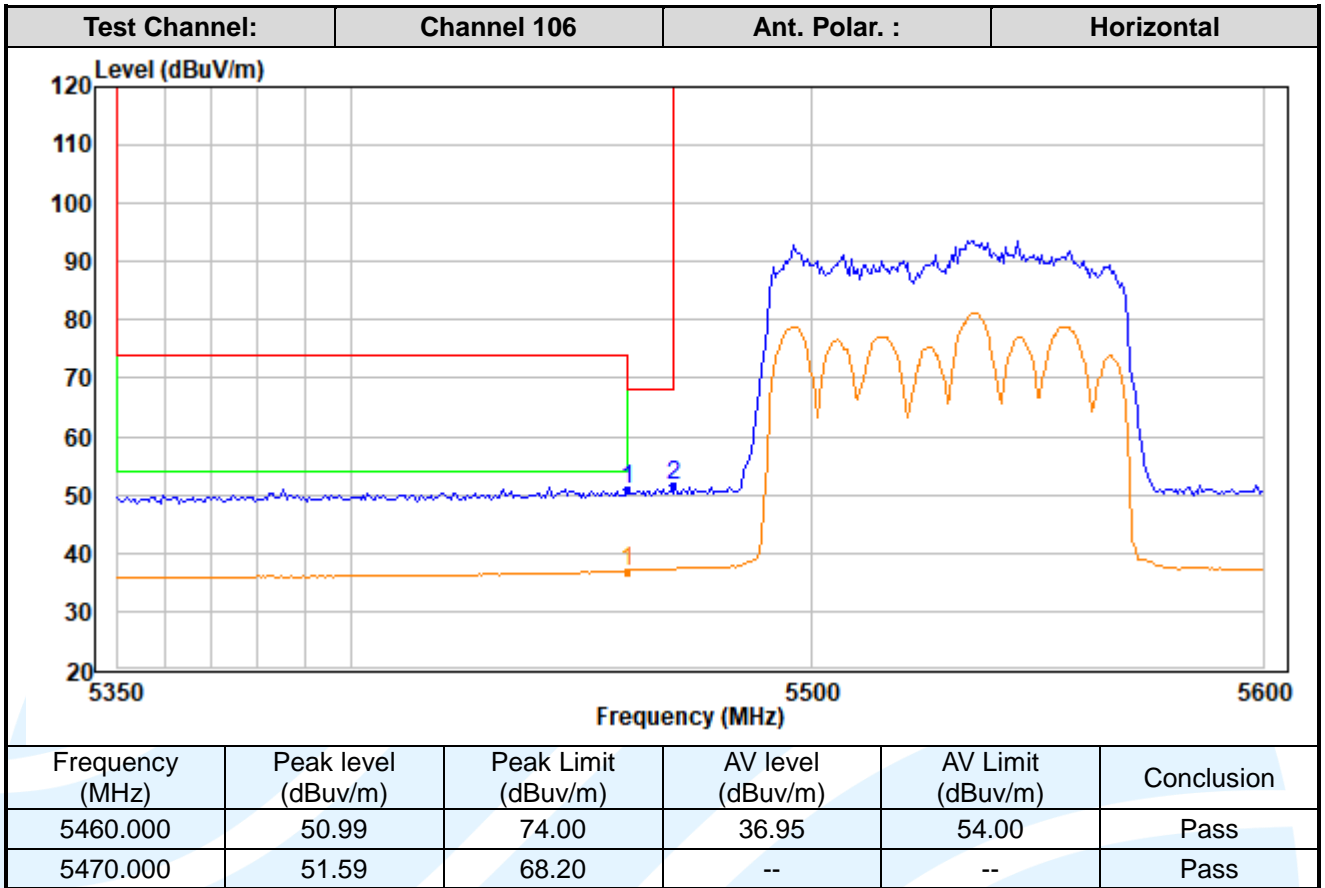
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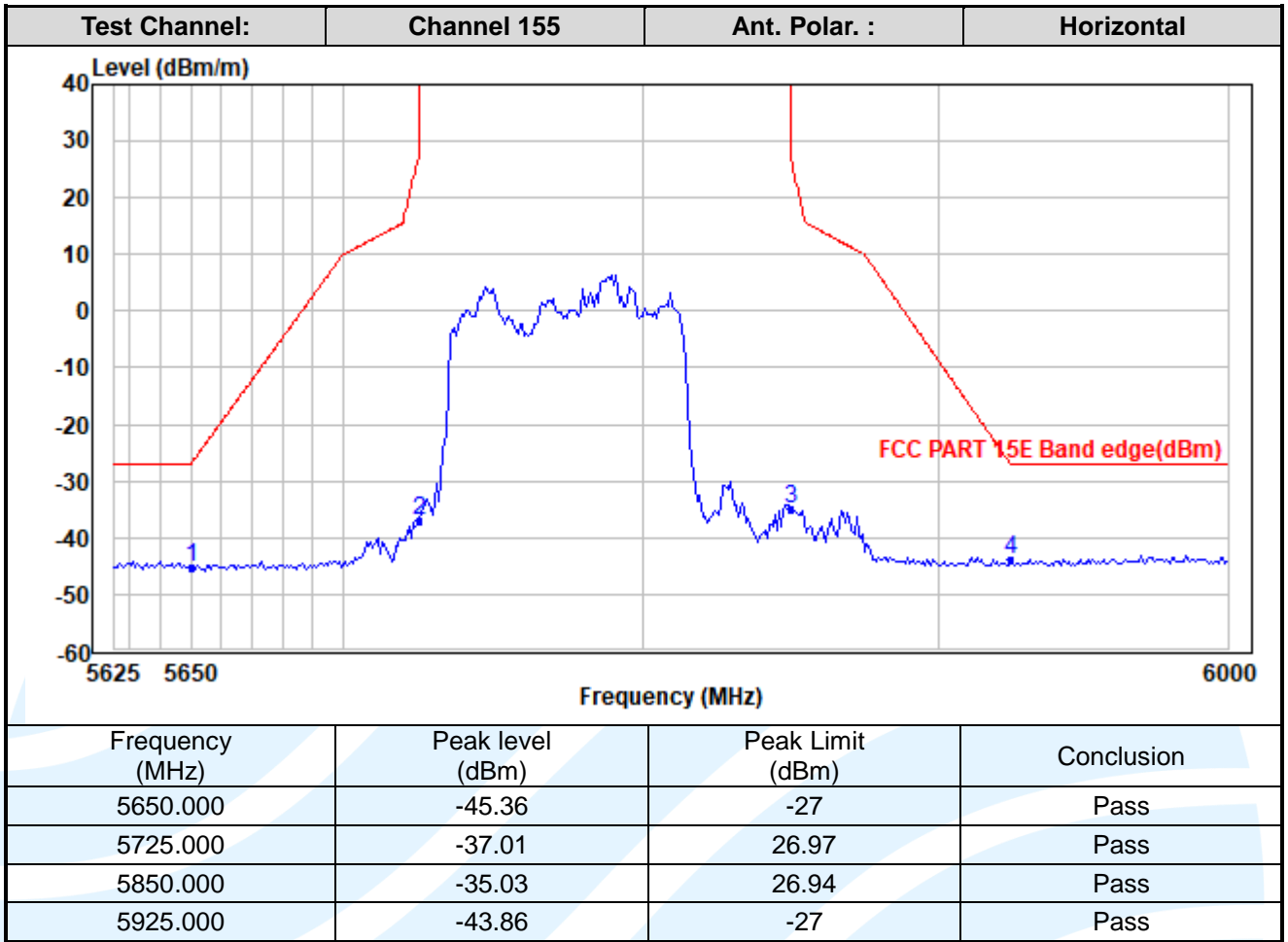
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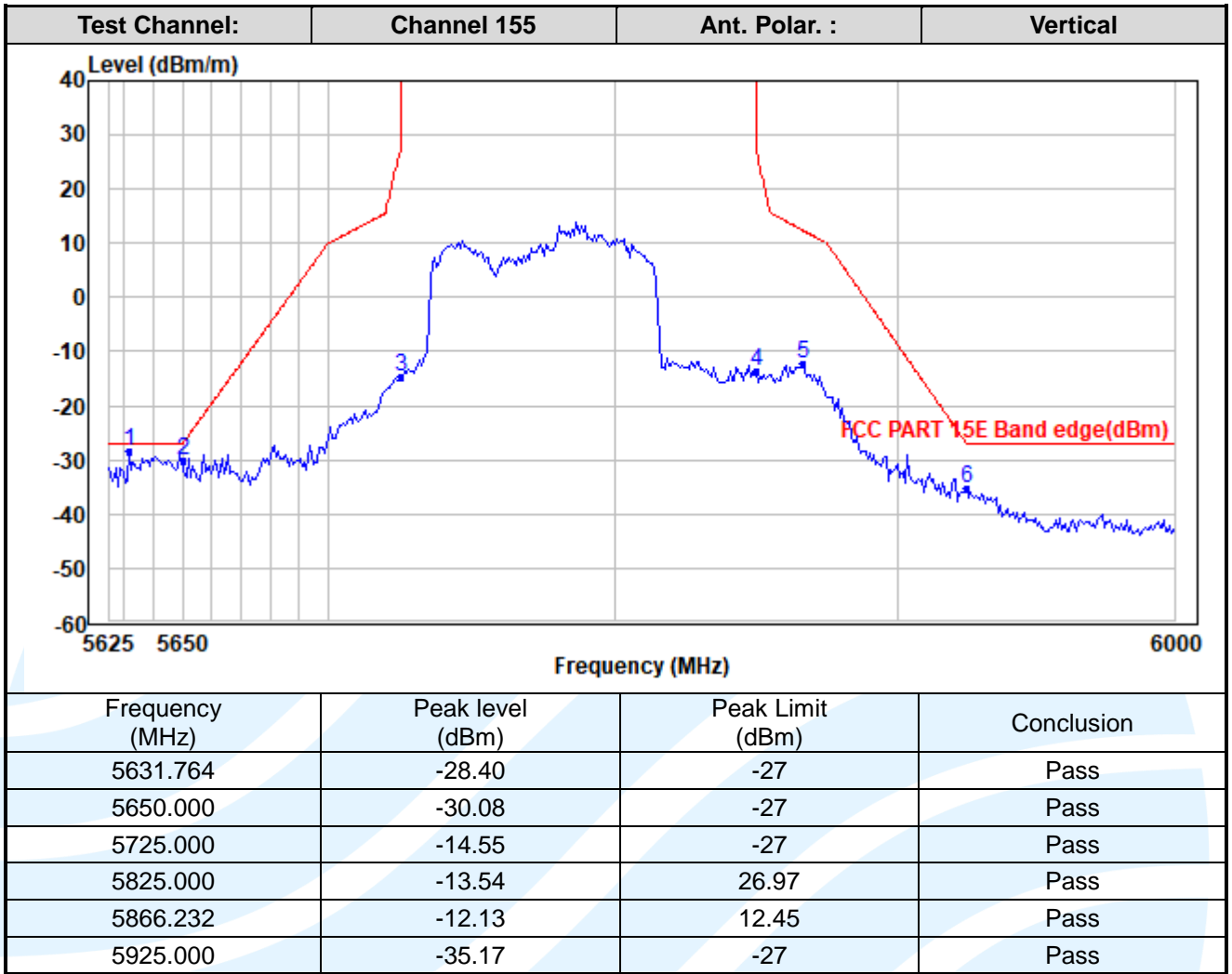
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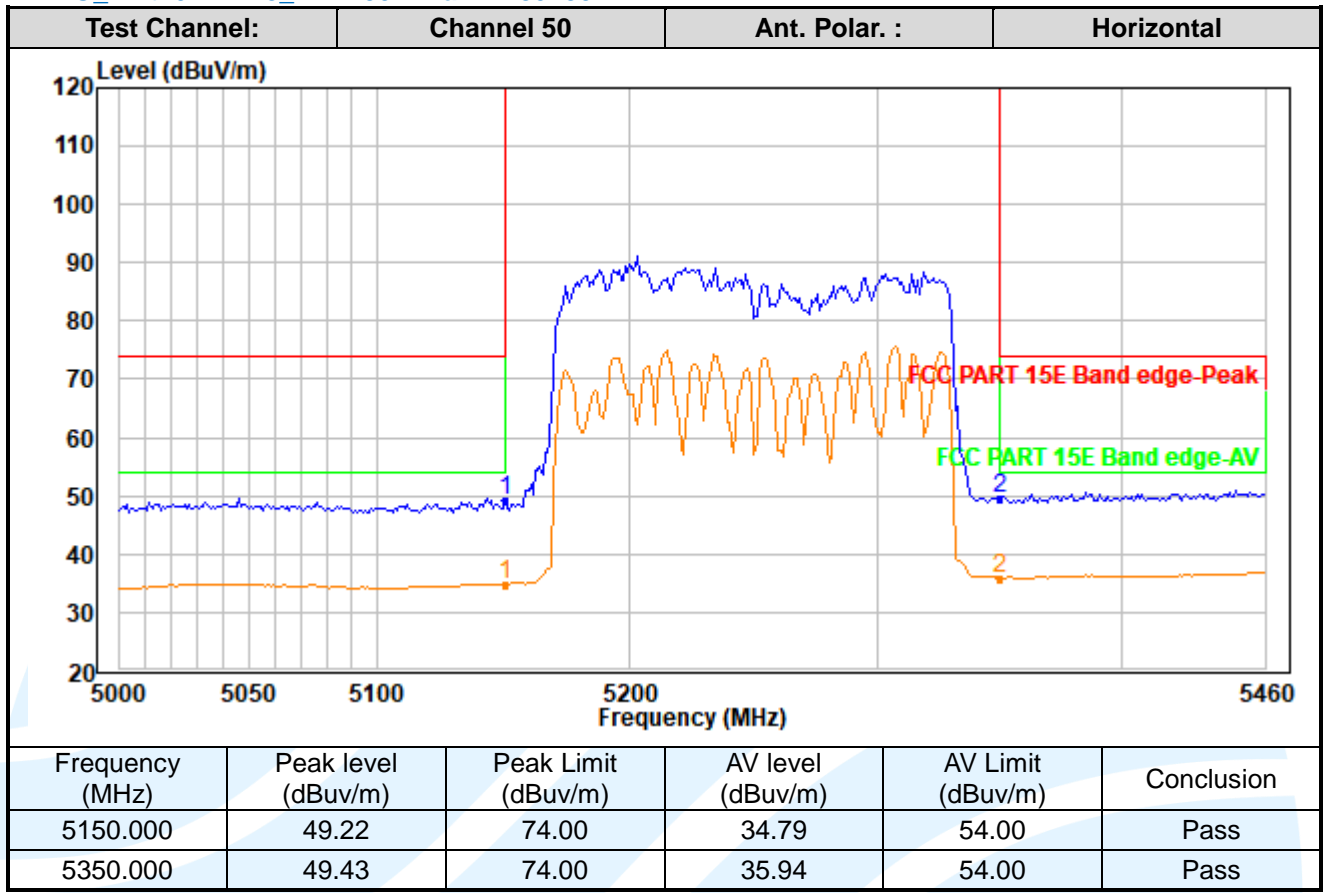
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MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE80+80



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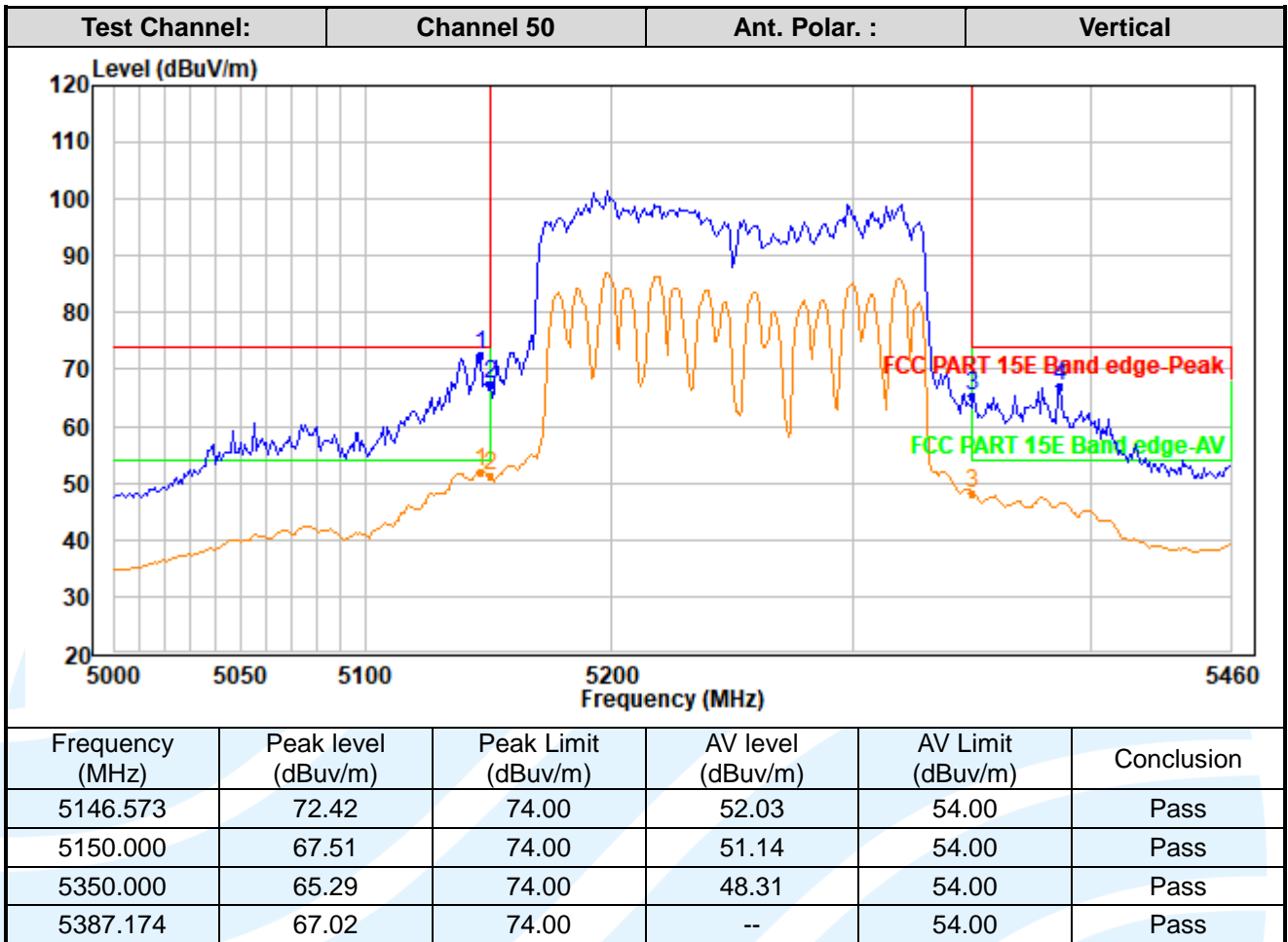
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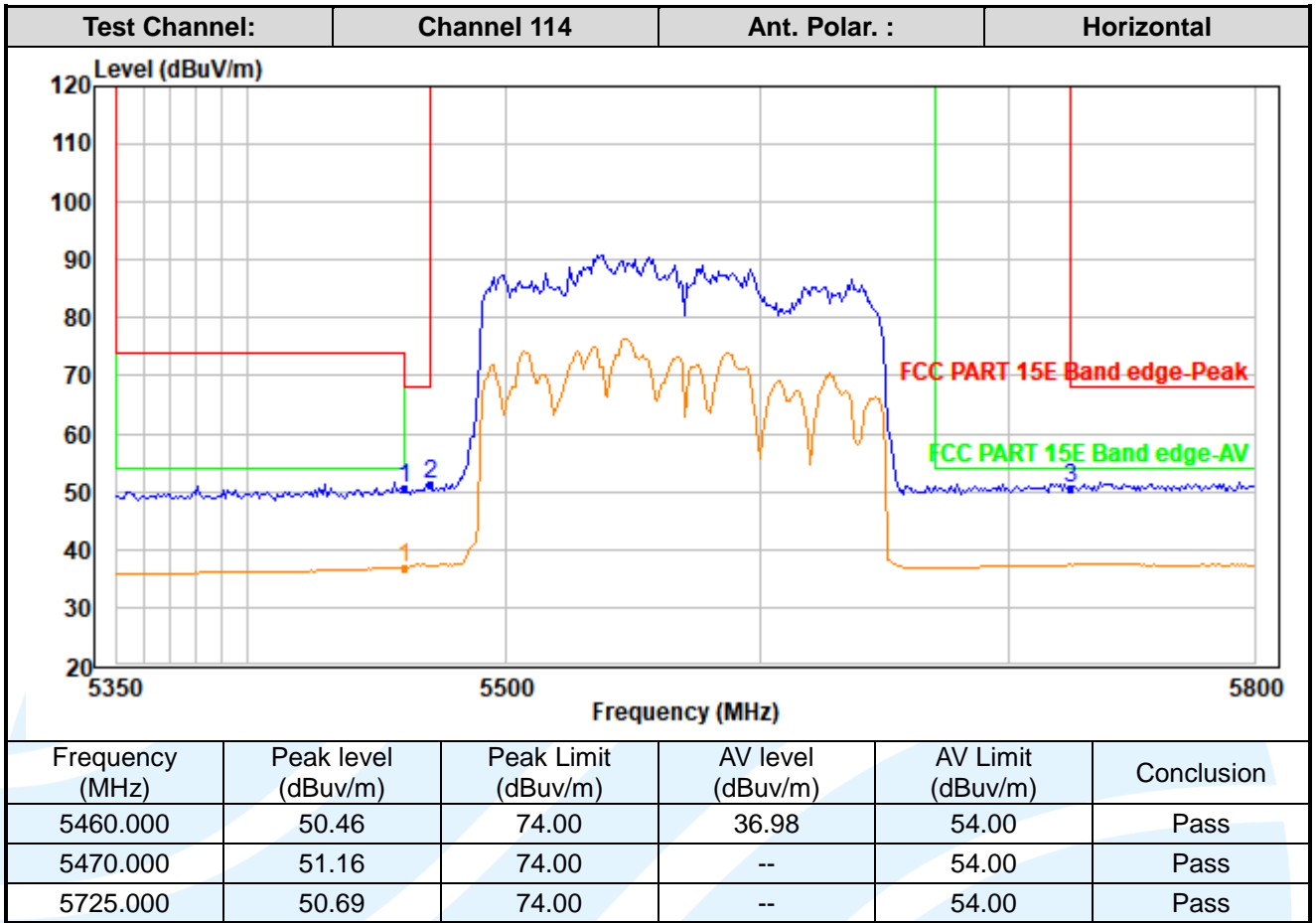
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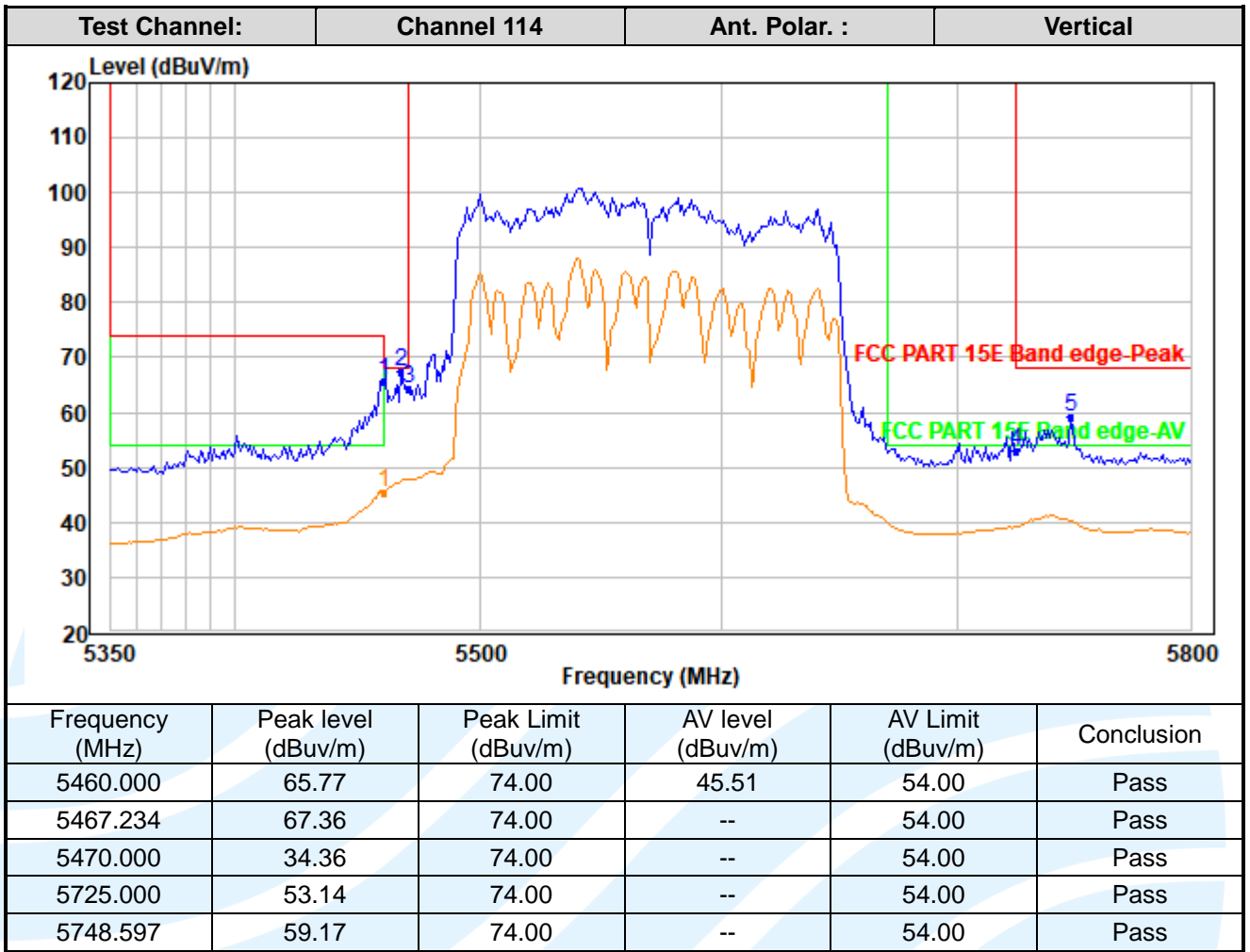
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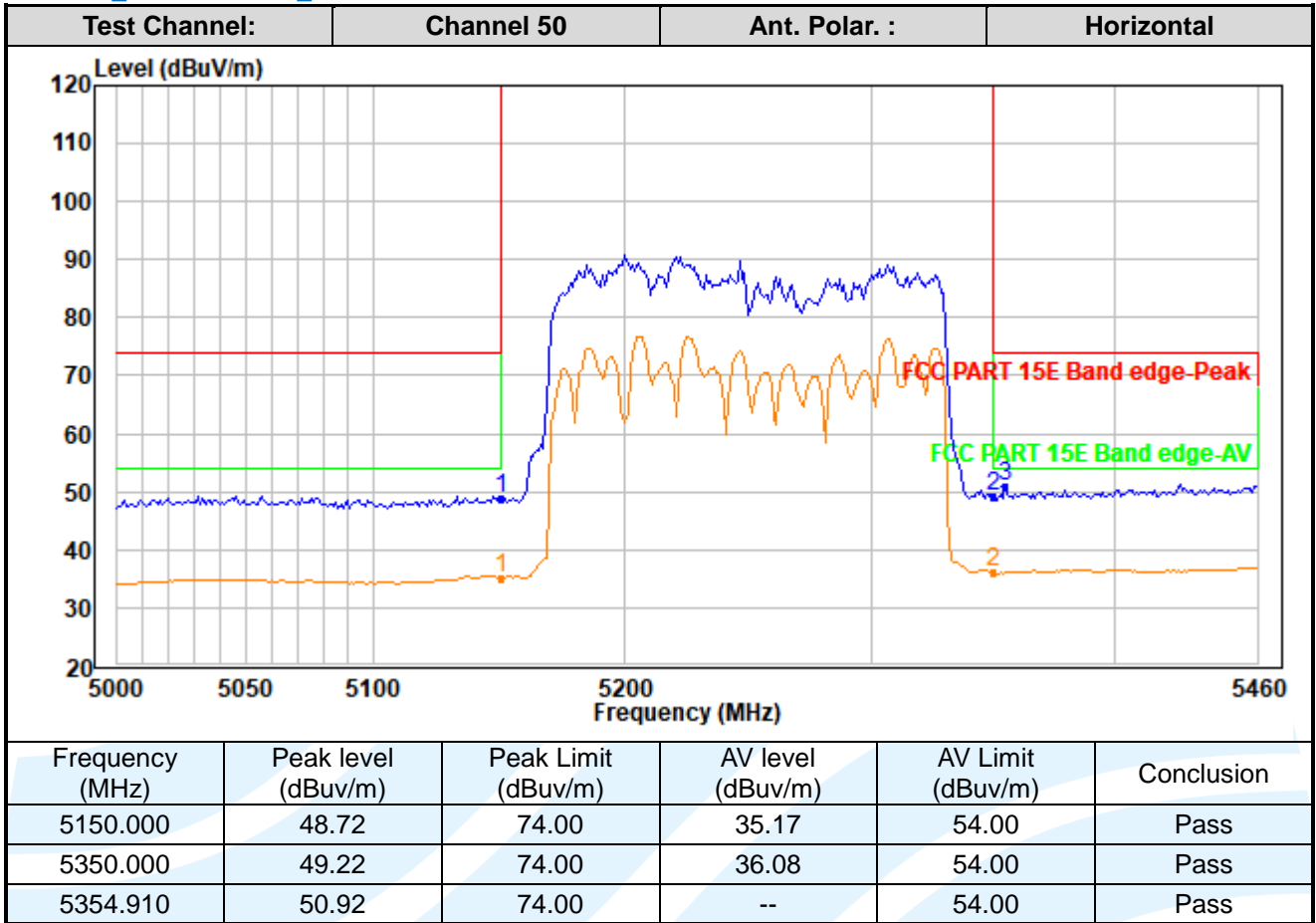
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MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE160



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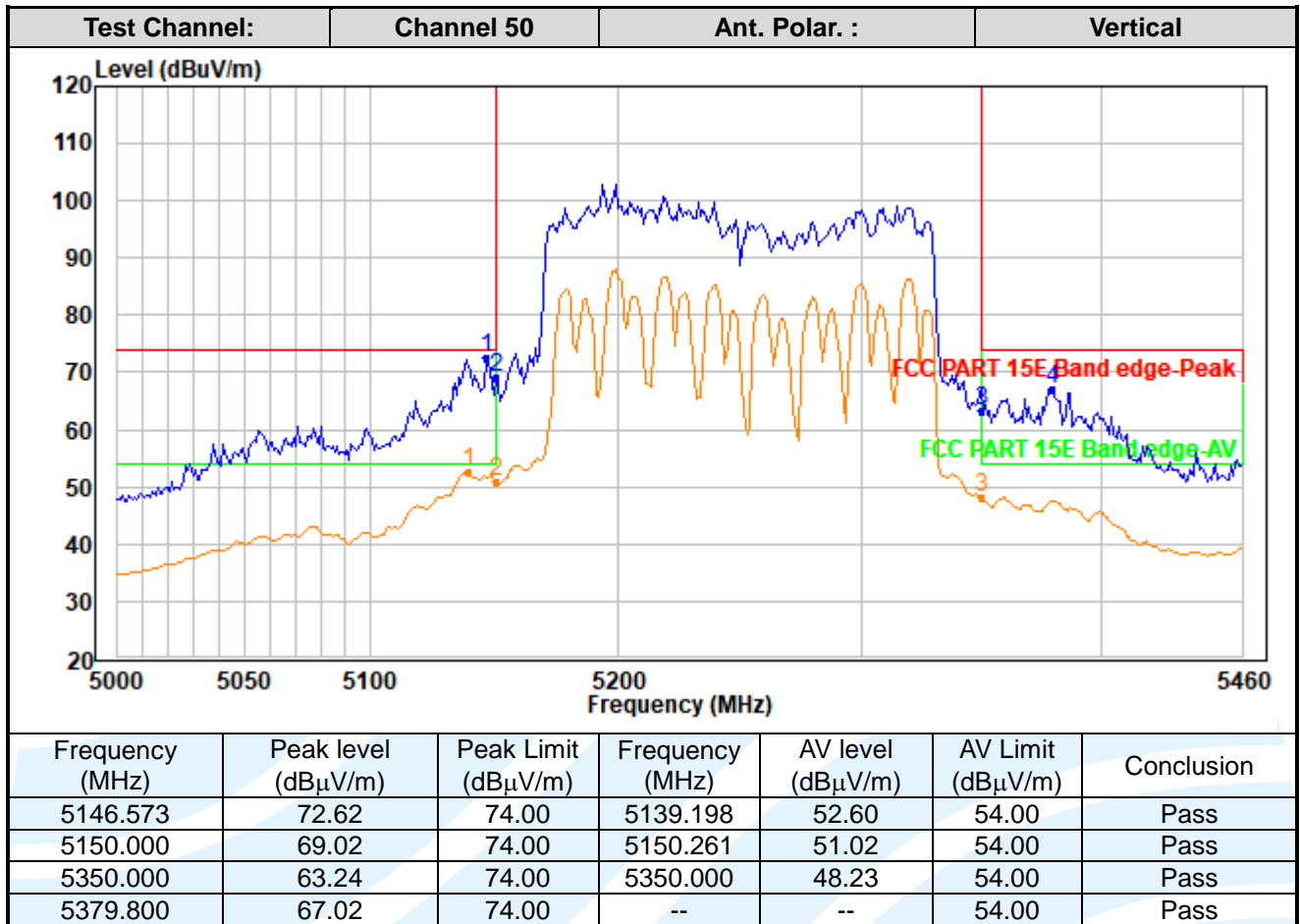
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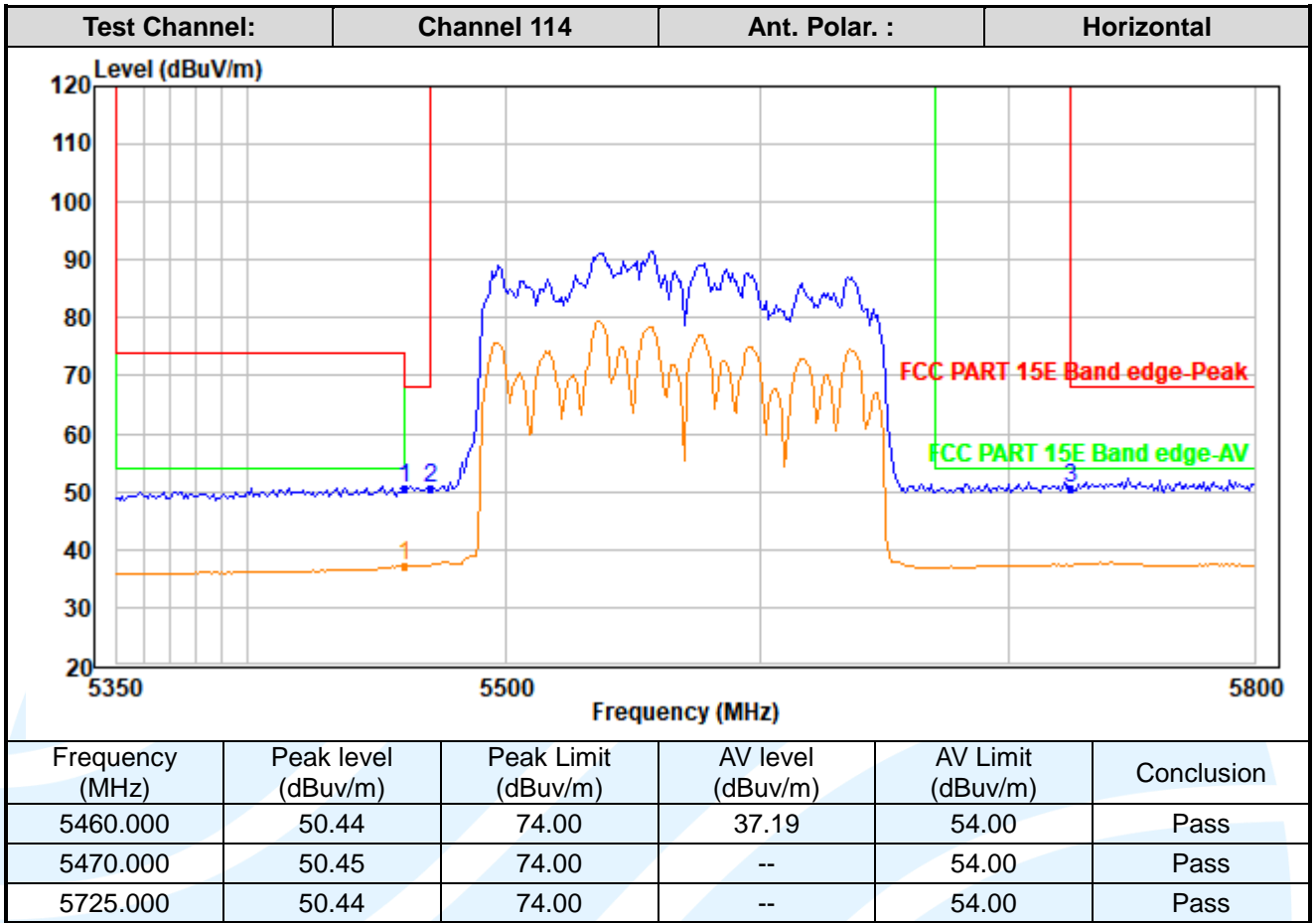
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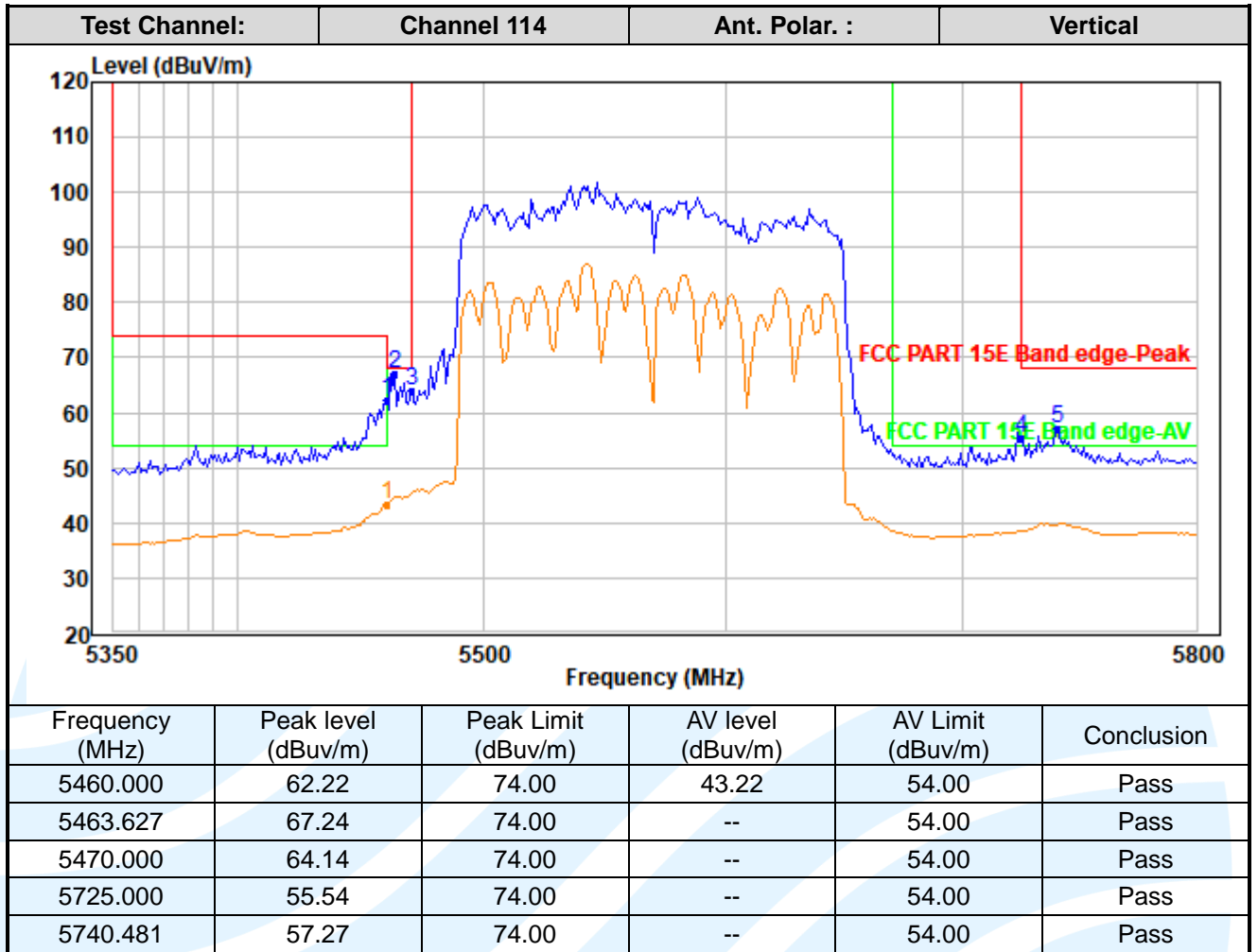
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5.8 AC POWER LINE CONDUCTED EMISSION

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

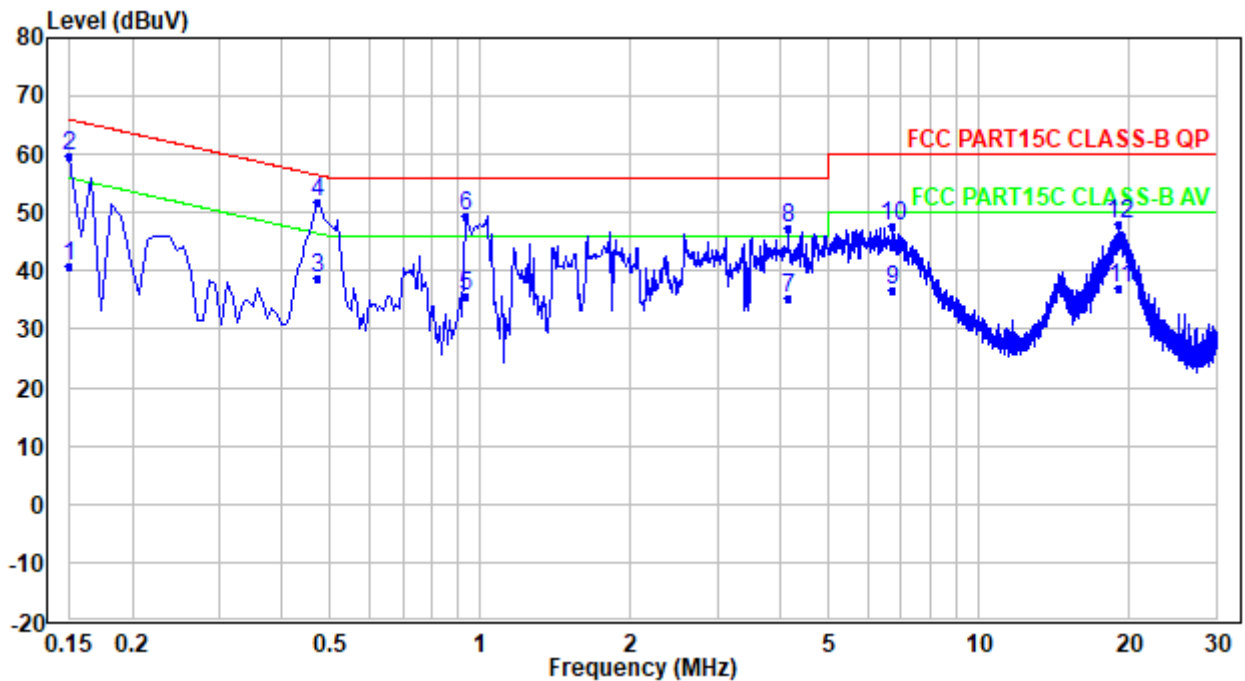
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a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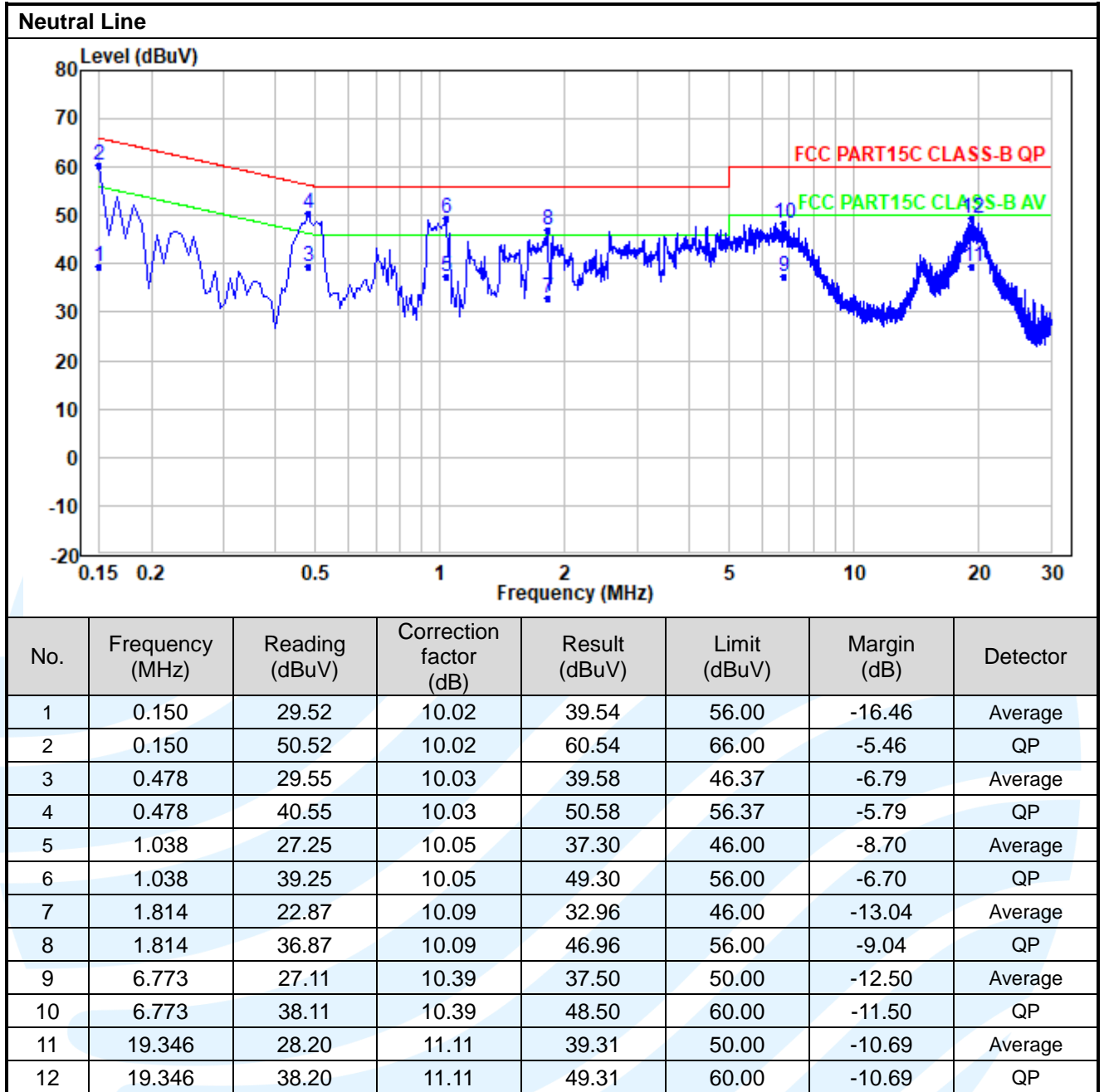
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Remark:

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
			0	35.952
	38		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
			0	17.841
	36		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
IEEE 802.11n_40				
IEEE 802.11ac_20				

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	64		3	17.776
			0	17.836
			1	17.572
	2		17.799	
	3		17.796	
	0		17.819	
	1		17.573	
	2		17.803	
	3		17.772	
	0		17.571	
	1		17.579	
	2		17.561	
3	17.566			
0	17.819			
1	17.591			
2	17.809			
3	17.810			
IEEE 802.11ac_40	38		0	35.985
			1	35.949
			2	35.964
	3		35.967	
	0		35.998	
	1		35.979	
	2		36.016	
	3		35.951	
	0		35.980	
	1		35.979	
	2		35.937	
	3		35.952	
	0		35.951	
	1		35.986	
	2		35.984	
	3		35.925	
	0		35.950	
	1		35.991	
2	35.965			
3	35.976			
0	35.975			
1	35.954			
2	35.994			
3	35.966			
0	35.959			
1	35.987			
2	35.990			
3	35.994			
IEEE 802.11ac_80	42		0	75.423
			1	75.365
			2	75.369
	3		75.345	
	0		75.407	
	1		75.370	
	2		75.411	
	3		75.284	
	0		75.399	
	1		75.410	
	2		75.417	
	3		75.326	
IEEE 802.11ac_80+80	50	N/A	0	154.841
			1	154.943
	2		154.525	
	3		154.289	
114	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	
	114		0	153.519
			1	153.393
2		153.006		
IEEE 802.11ax_20	36	SU	3	153.130
			0	19.082
			1	18.911
	2		19.102	
	3		19.067	
	44		0	19.123
			1	18.885
			2	19.090
	48		3	19.101
			0	19.118
			1	18.925
	52		2	19.062
			3	19.073
			0	18.911
	60		1	18.890
			2	19.117
			3	19.095
	64		0	19.093
			1	18.925
			2	19.105
	100		3	19.120
			0	19.106
			1	18.874
	116		2	19.091
			3	19.062
			0	19.109
	140		1	18.886
			2	19.102
			3	19.091
	IEEE 802.11ax_40		38	0
1		18.912		
2		18.893		
46		3	18.891	
		0	19.091	
		1	18.918	
54		2	19.125	
		3	19.123	
		0	37.652	
62		1	37.670	
		2	37.689	
		3	37.646	
102		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		
	110		0	37.662		
			1	37.659		
			2	37.702		
	134		3	37.589		
			0	37.615		
			1	37.662		
			2	37.631		
IEEE 802.11ax_80	42	SU	3	37.691		
			0	77.159		
			1	77.020		
	58		2	77.042		
			3	77.010		
			0	77.064		
	106		1	77.069		
			2	77.089		
			3	76.965		
			0	77.096		
IEEE 802.11ax_80+80	50	SU	1	77.061		
			2	77.016		
			3	76.991		
	114		0	154.726		
			1	154.776		
			2	154.581		
	IEEE 802.11ax_160		50	SU	3	154.436
					0	154.978
					1	154.810
			114		2	154.393
3		154.574				
0		154.836				
1		154.972				
IEEE 802.11ax_160	50	SU	2		154.501	
			3		154.475	
			0		155.107	
	114		1	154.916		
			2	154.633		
			114	3	154.602	

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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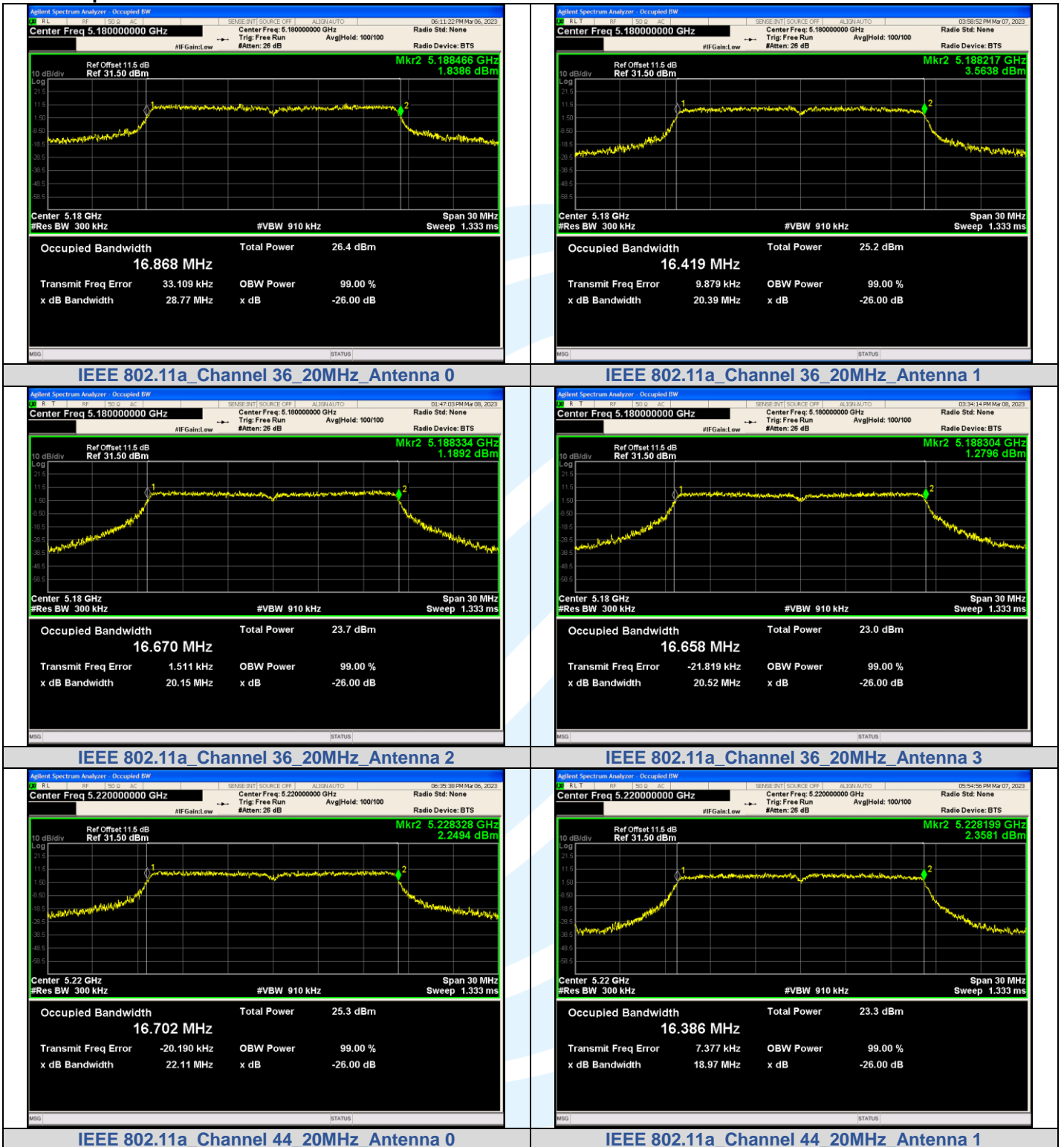
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Test Graphs



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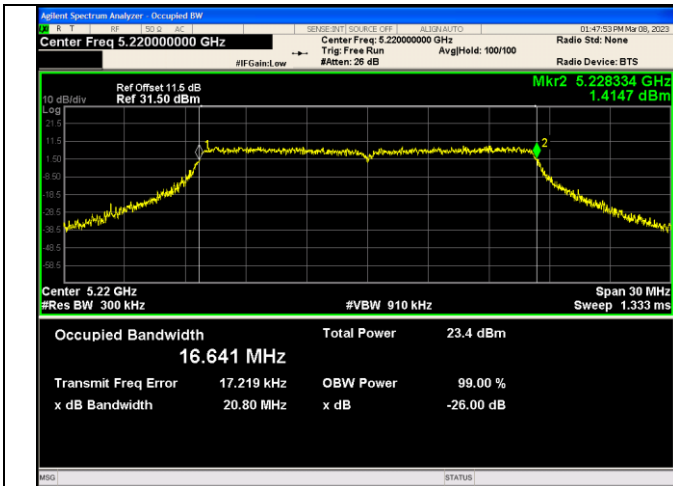
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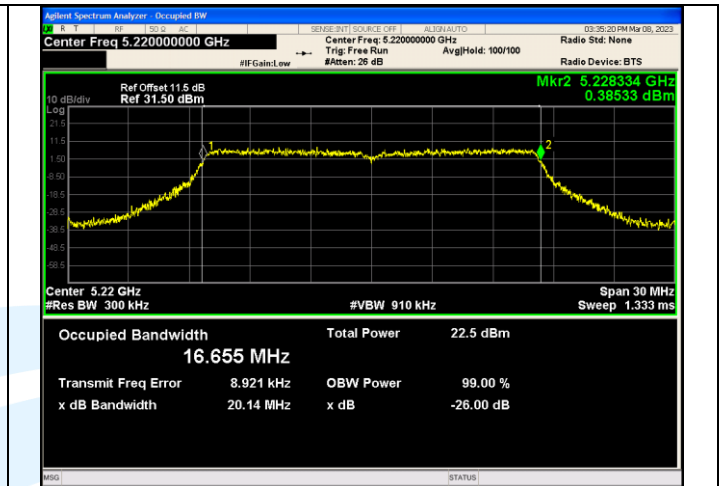
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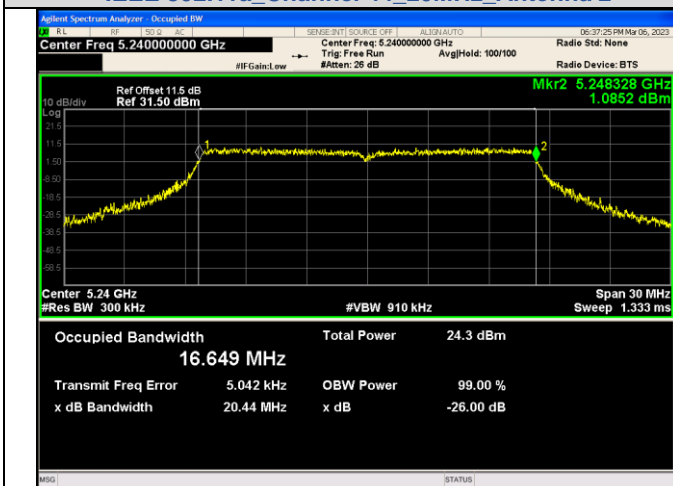
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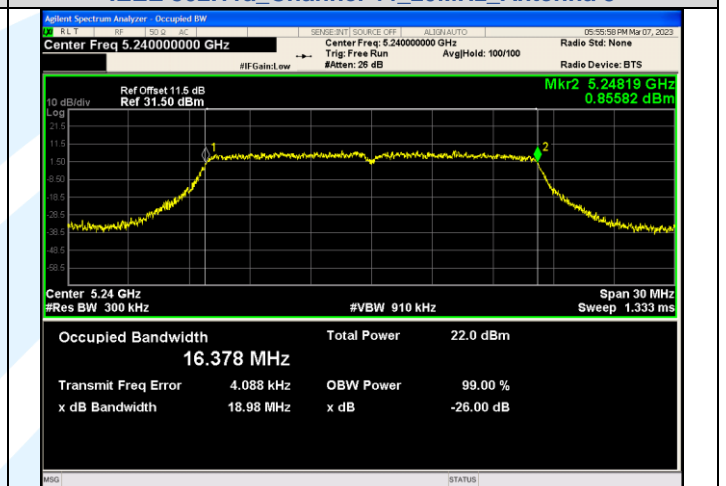
IEEE 802.11a_Channel 44_20MHz_Antenna 2



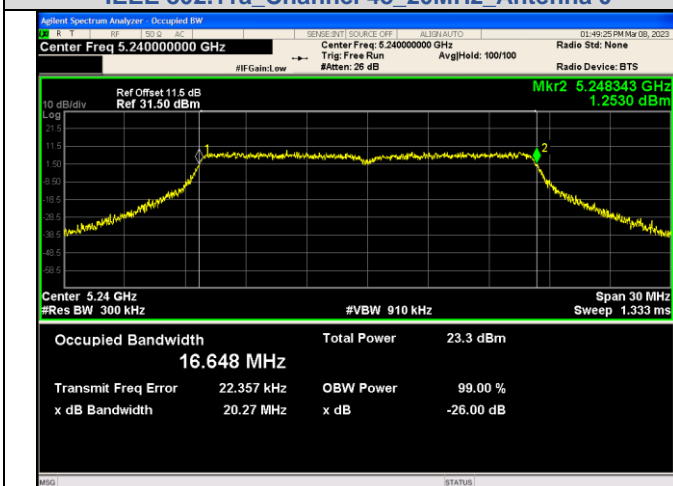
IEEE 802.11a_Channel 44_20MHz_Antenna 3



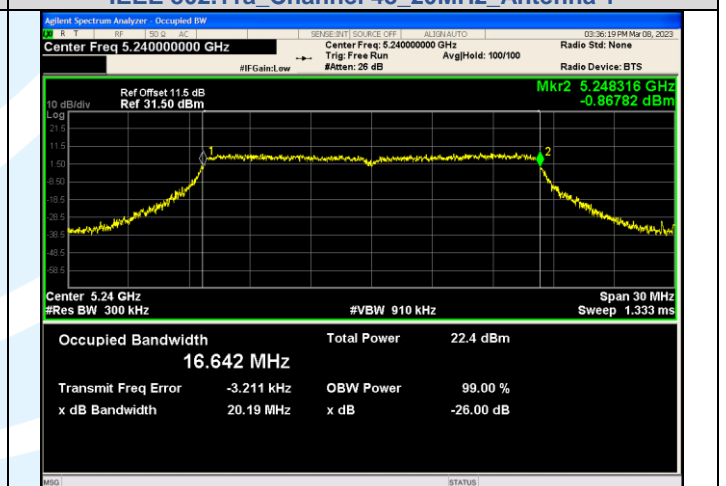
IEEE 802.11a_Channel 48_20MHz_Antenna 0



IEEE 802.11a_Channel 48_20MHz_Antenna 1



IEEE 802.11a_Channel 48_20MHz_Antenna 2



IEEE 802.11a_Channel 48_20MHz_Antenna 3

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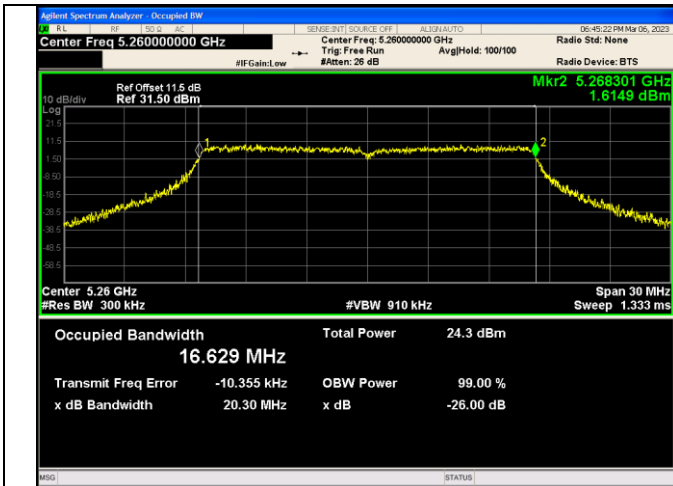
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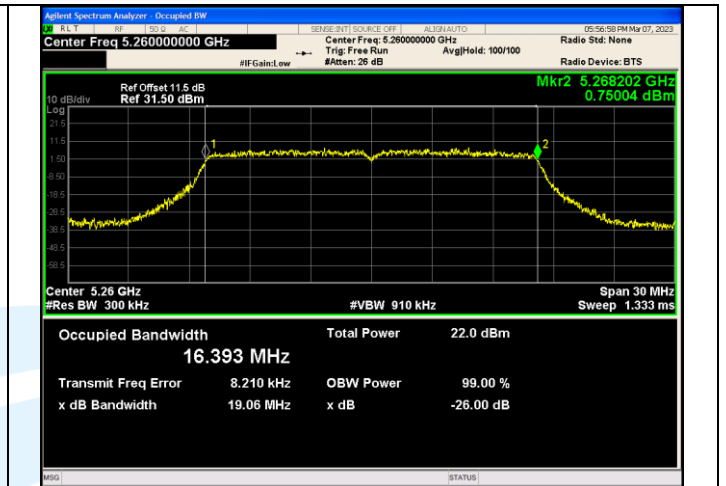
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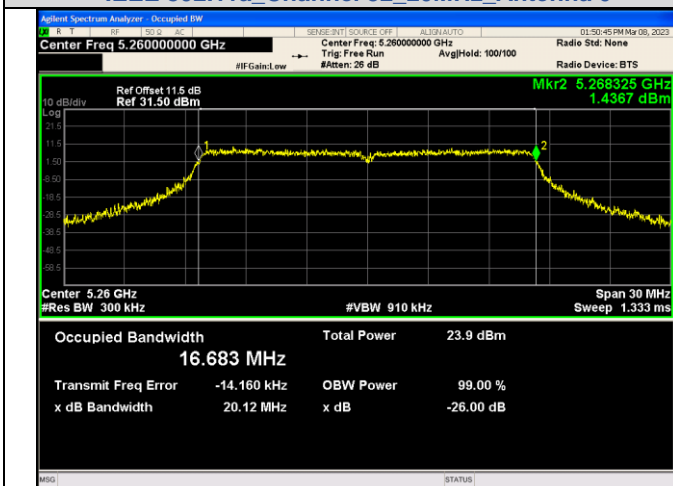
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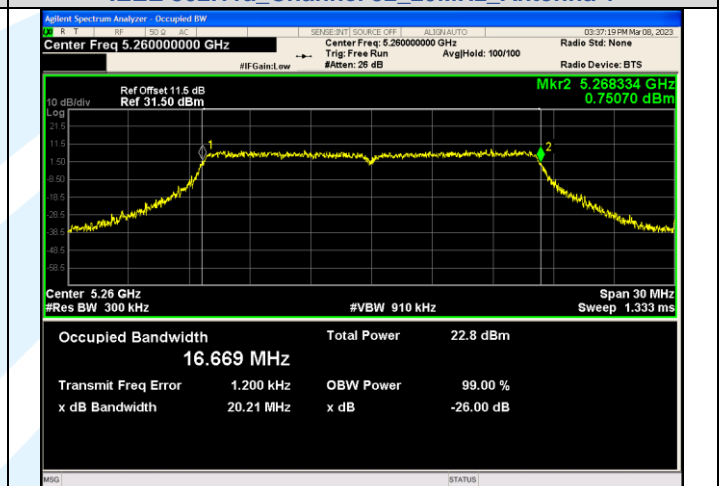
IEEE 802.11a_Channel 52_20MHz_Antenna 0



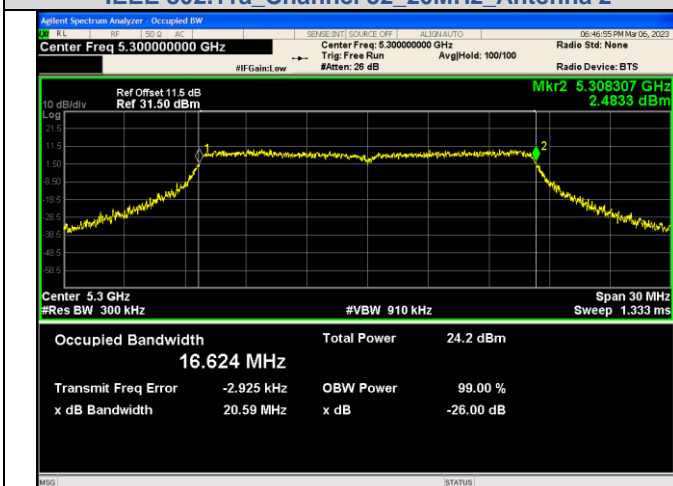
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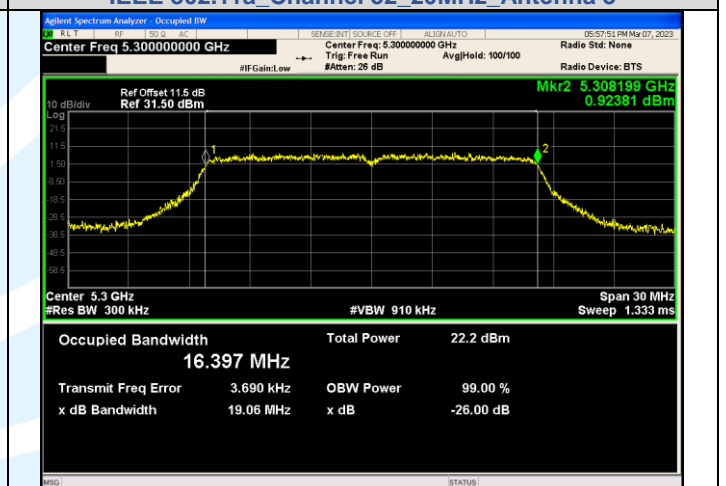
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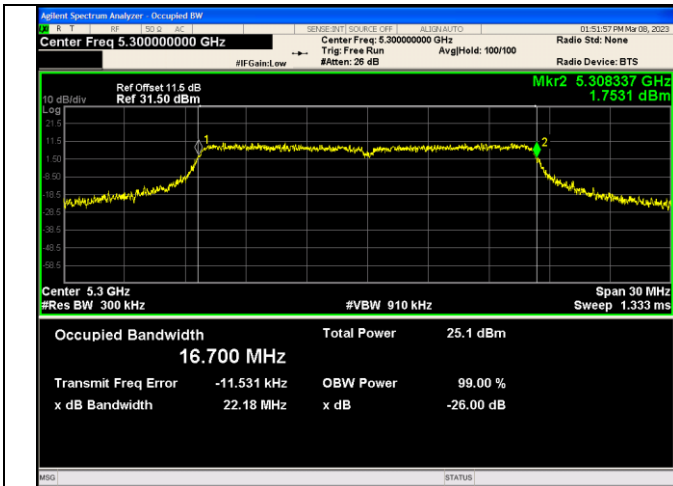
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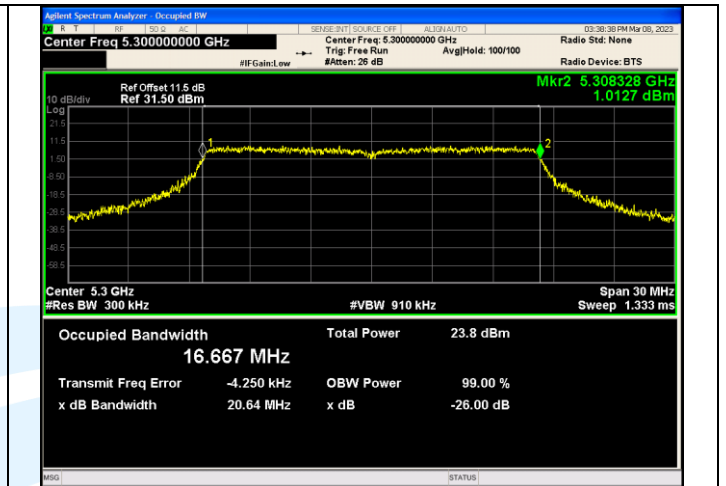
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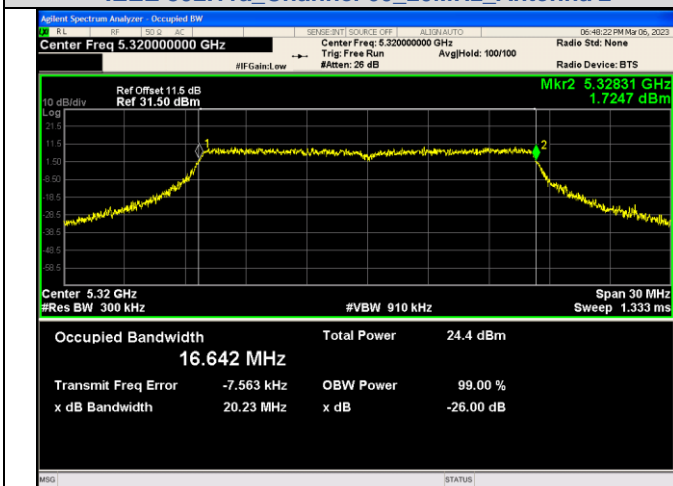
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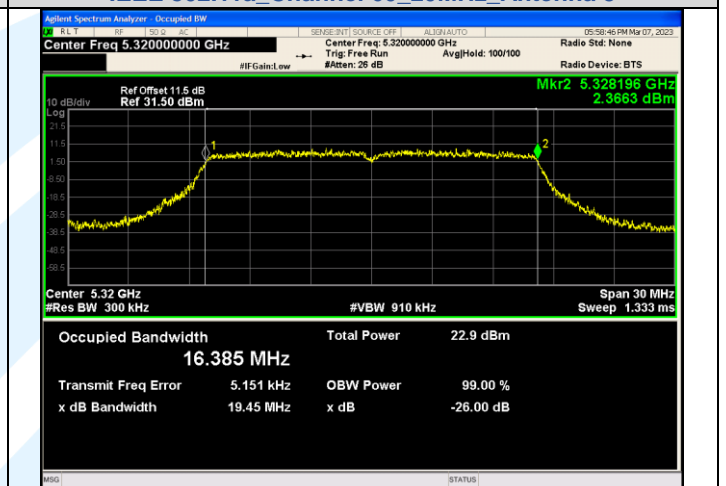
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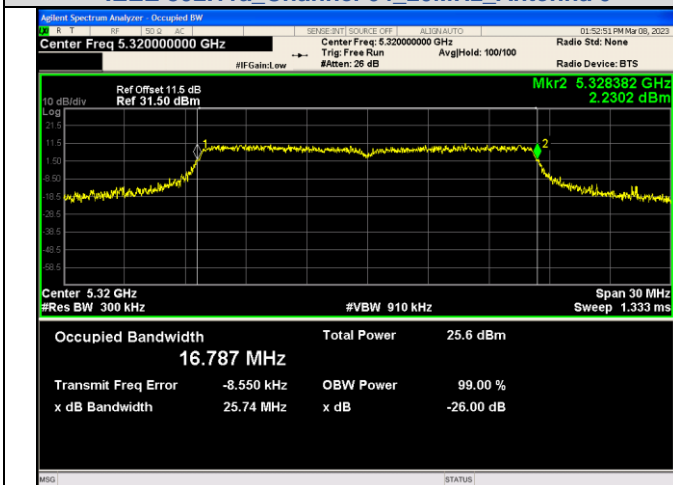
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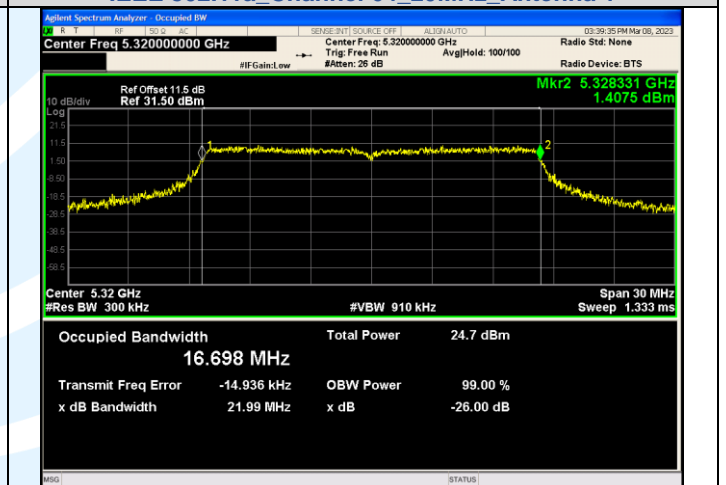
IEEE 802.11a_Channel 64_20MHz_Antenna 0



IEEE 802.11a_Channel 64_20MHz_Antenna 1



IEEE 802.11a_Channel 64_20MHz_Antenna 2



IEEE 802.11a_Channel 64_20MHz_Antenna 3

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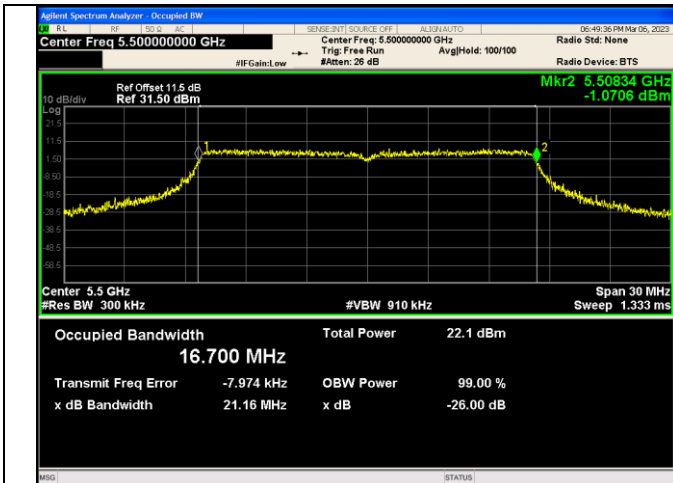
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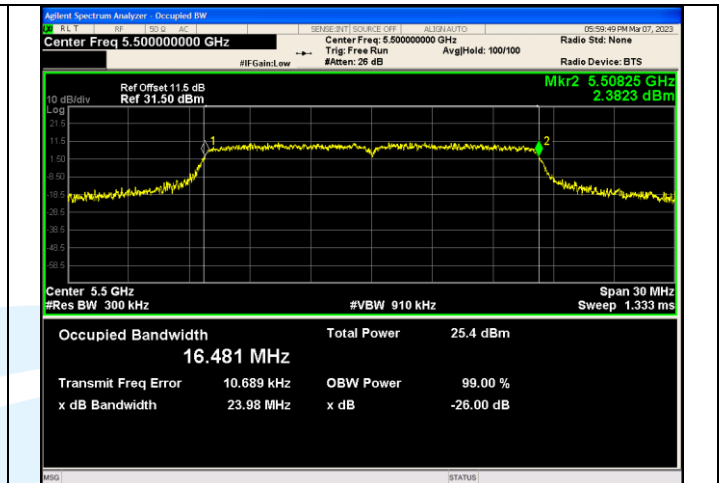
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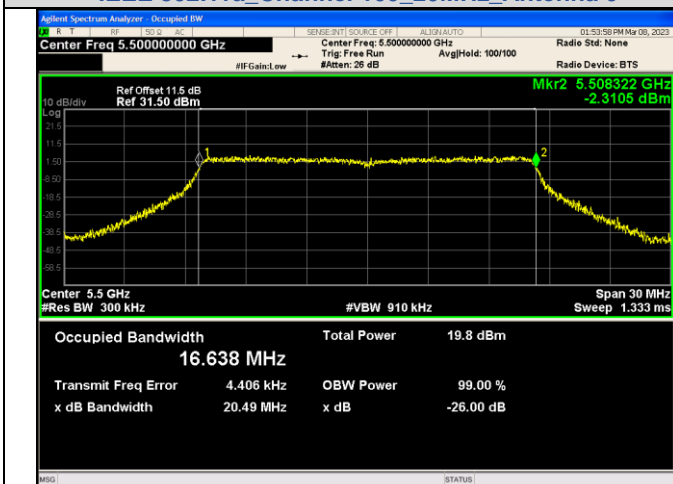
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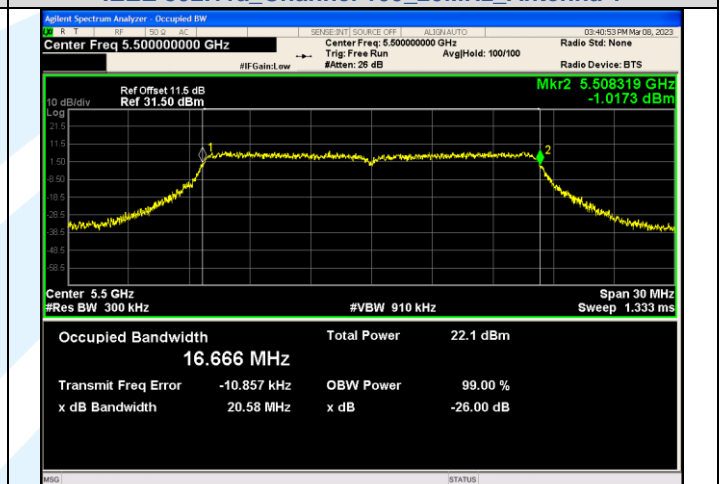
IEEE 802.11a_Channel 100_20MHz_Antenna 0



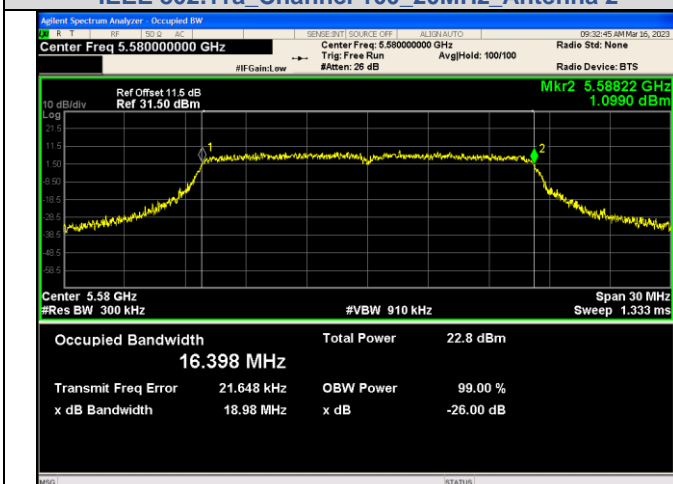
IEEE 802.11a_Channel 100_20MHz_Antenna 1



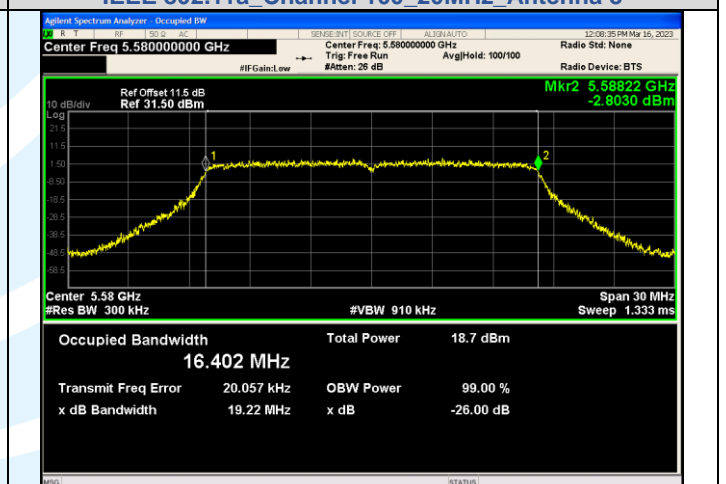
IEEE 802.11a_Channel 100_20MHz_Antenna 2



IEEE 802.11a_Channel 100_20MHz_Antenna 3



IEEE 802.11a_Channel 116_20MHz_Antenna 0



IEEE 802.11a_Channel 116_20MHz_Antenna 1

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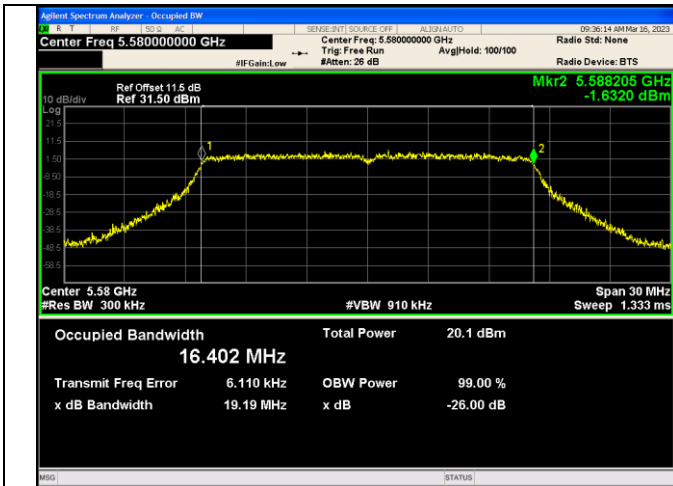
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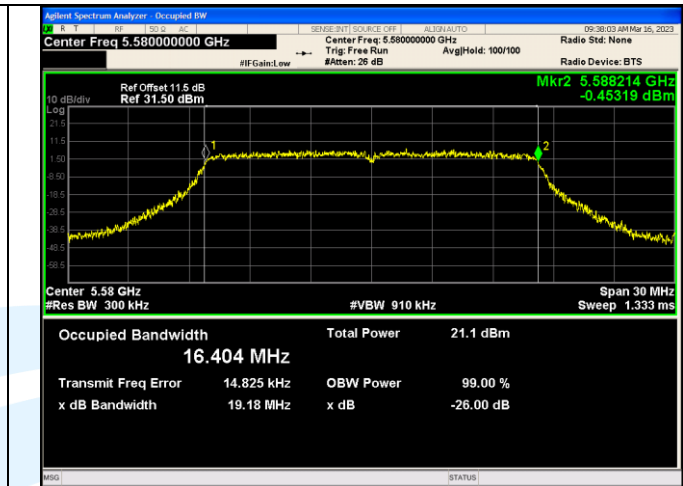
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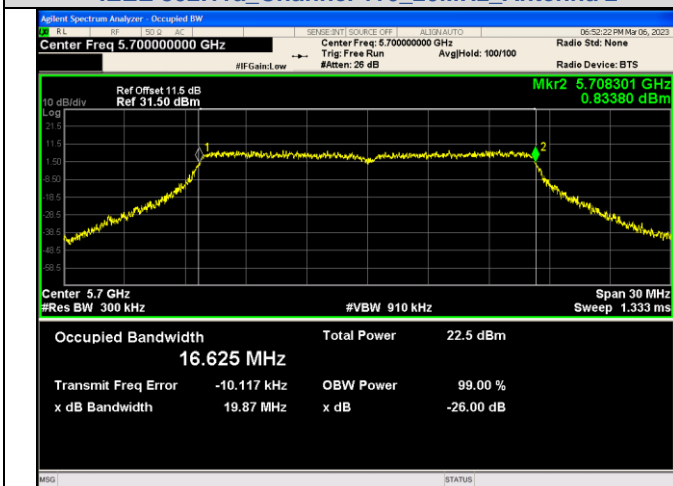
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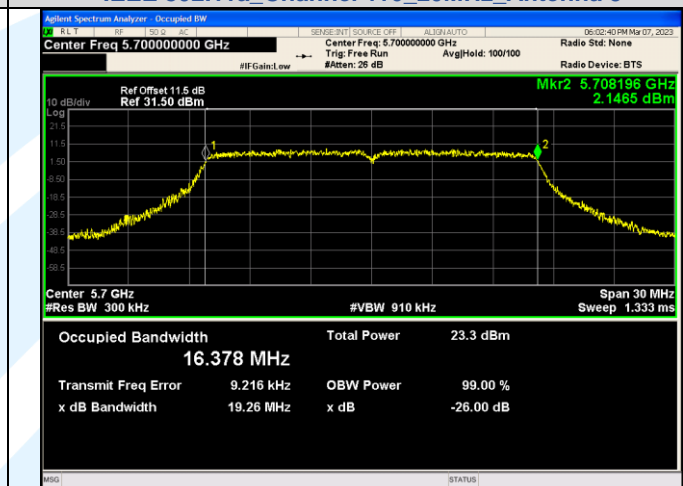
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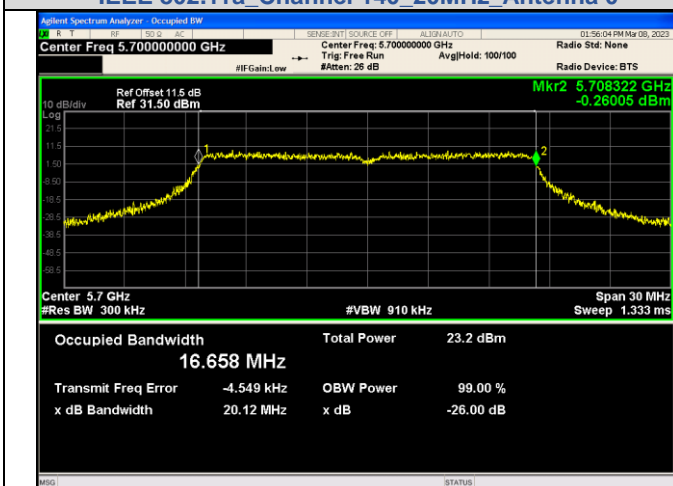
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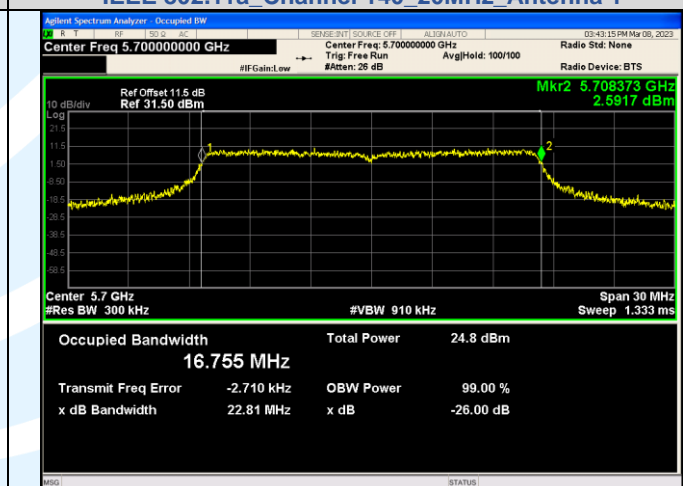
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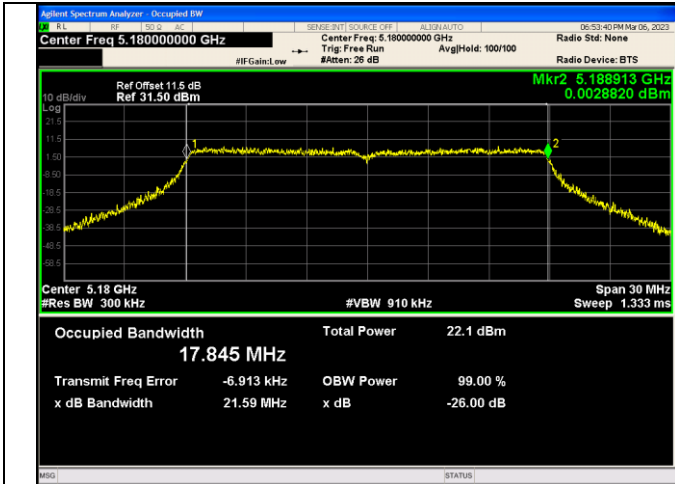
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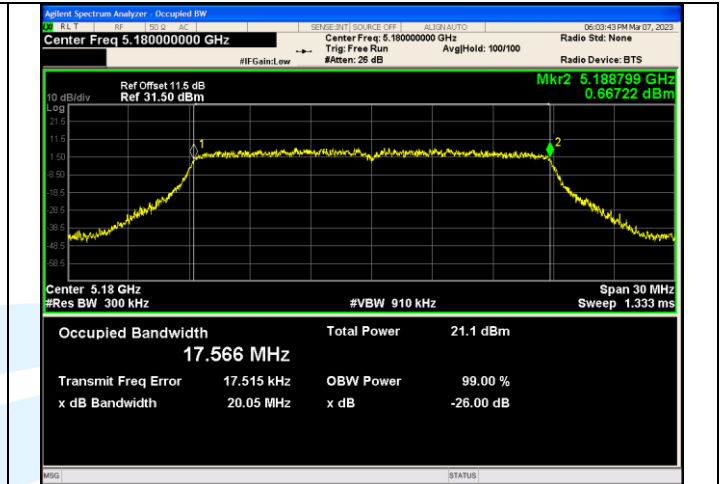
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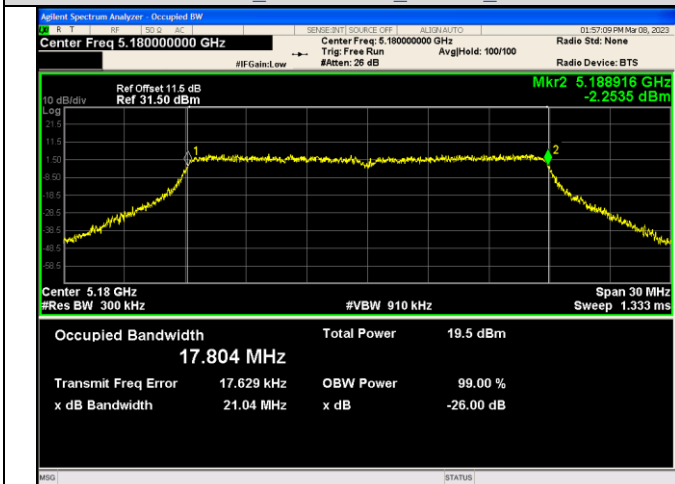
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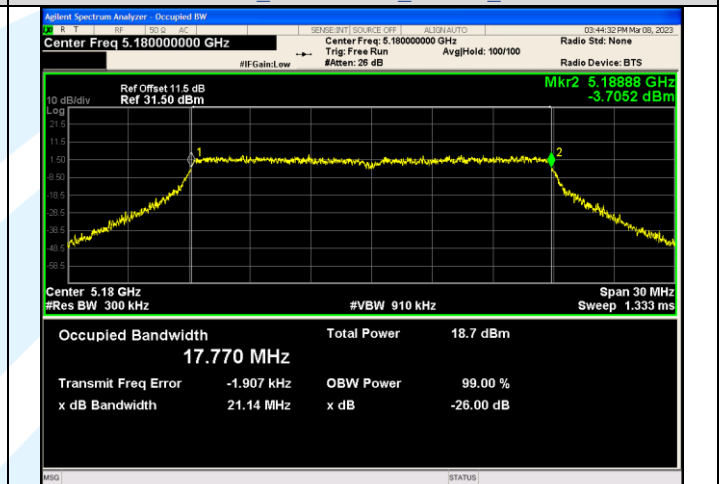
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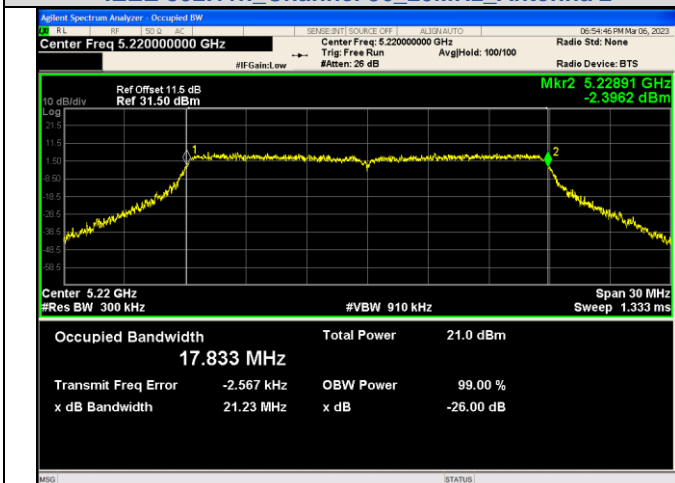
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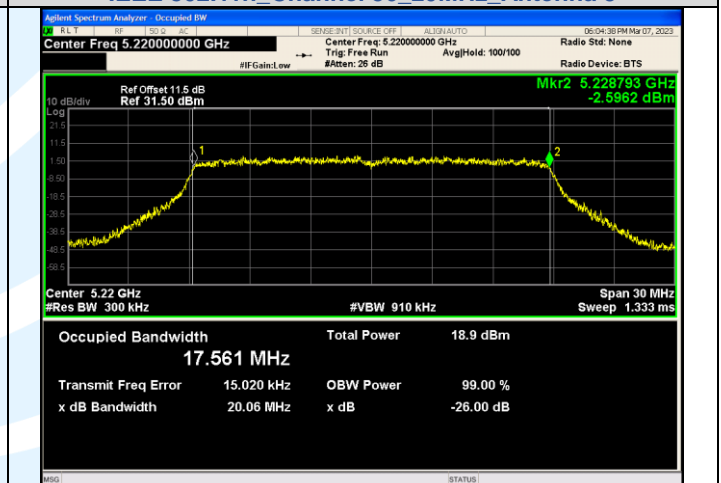
IEEE 802.11n_Channel 36_20MHz_Antenna 2



IEEE 802.11n_Channel 36_20MHz_Antenna 3



IEEE 802.11n_Channel 44_20MHz_Antenna 0



IEEE 802.11n_Channel 44_20MHz_Antenna 1

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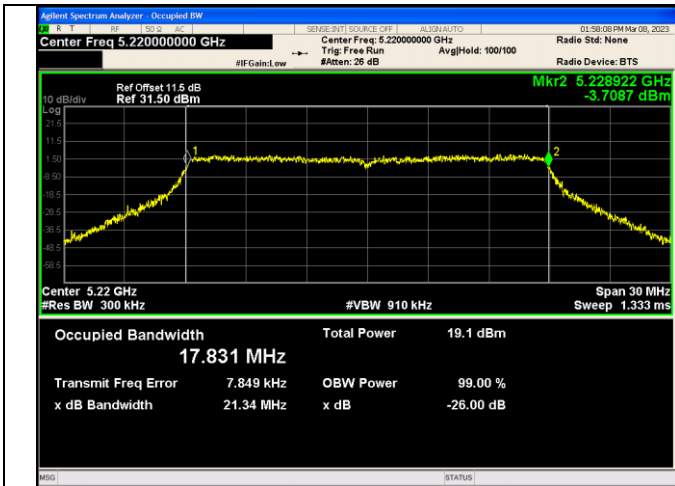
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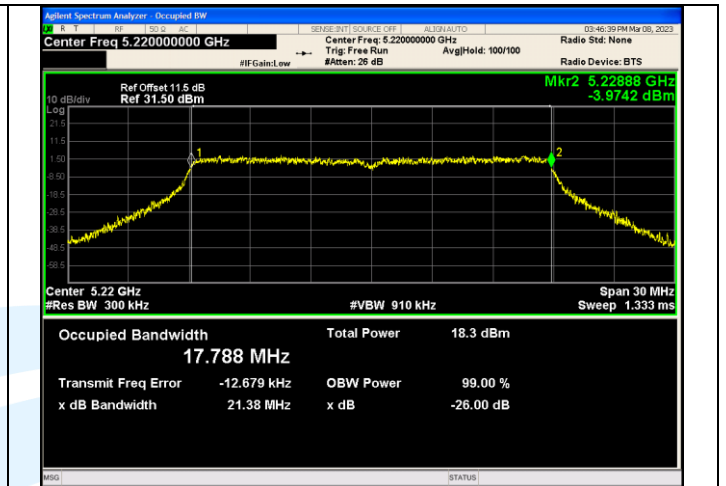
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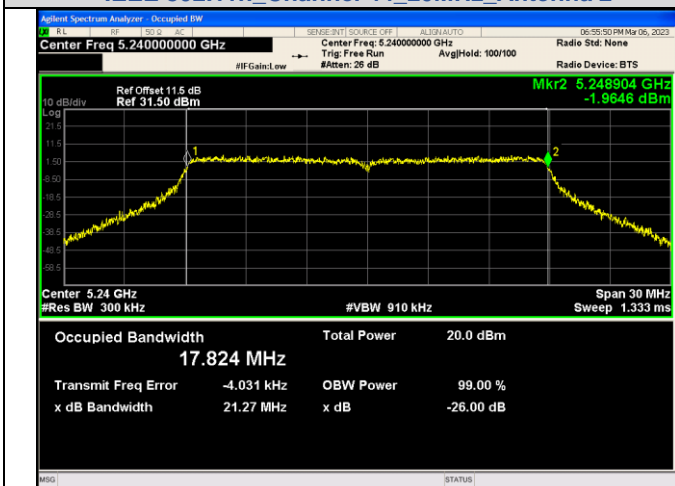
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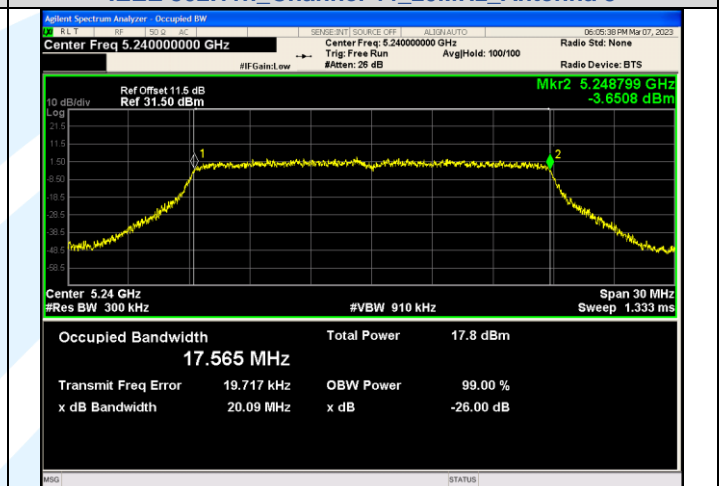
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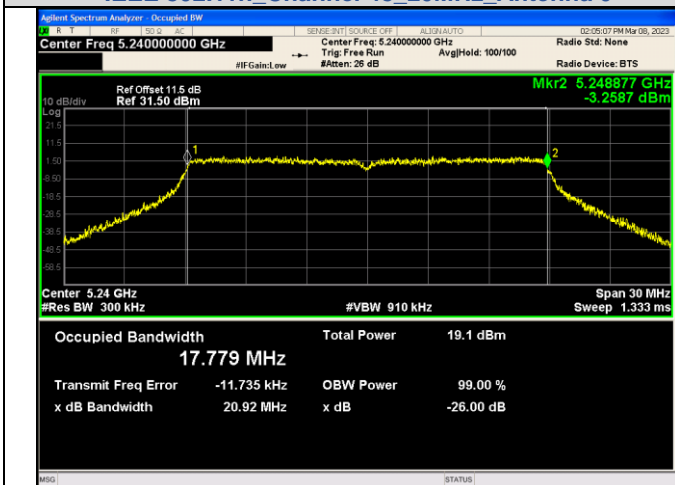
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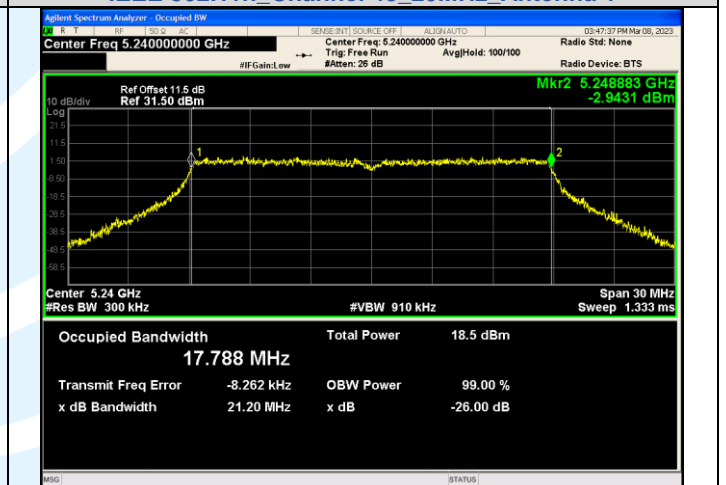
IEEE 802.11n_Channel 48_20MHz_Antenna 0



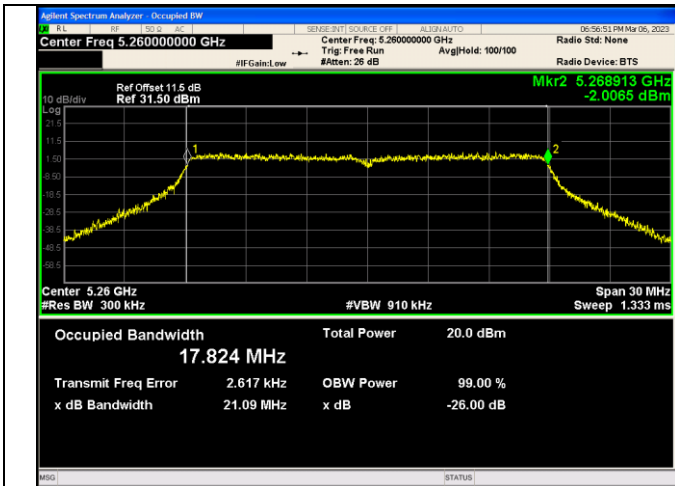
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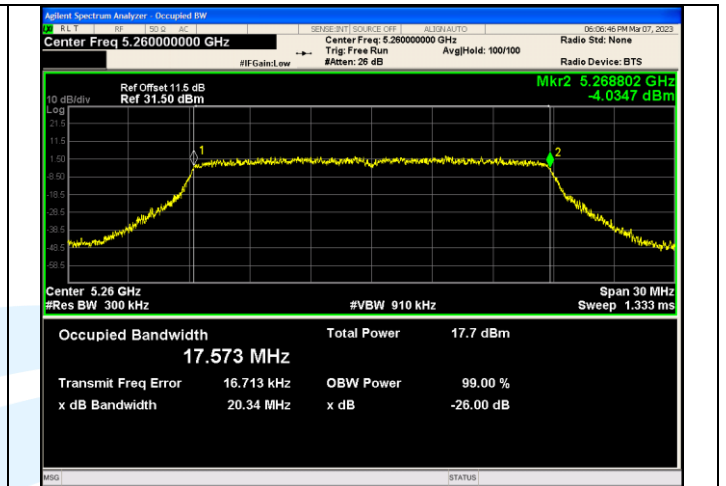
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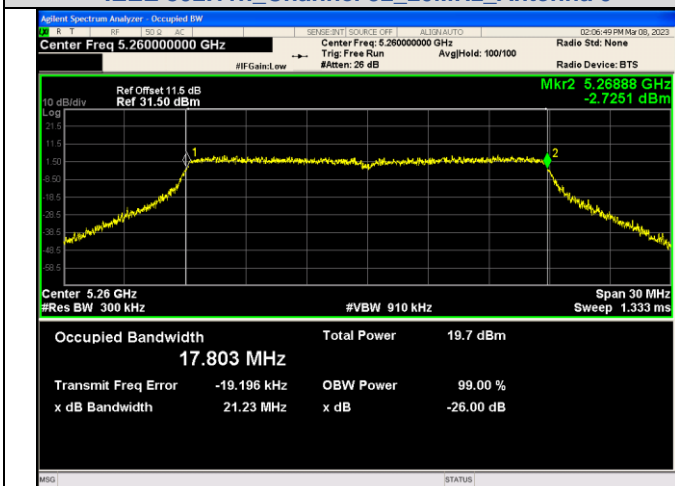
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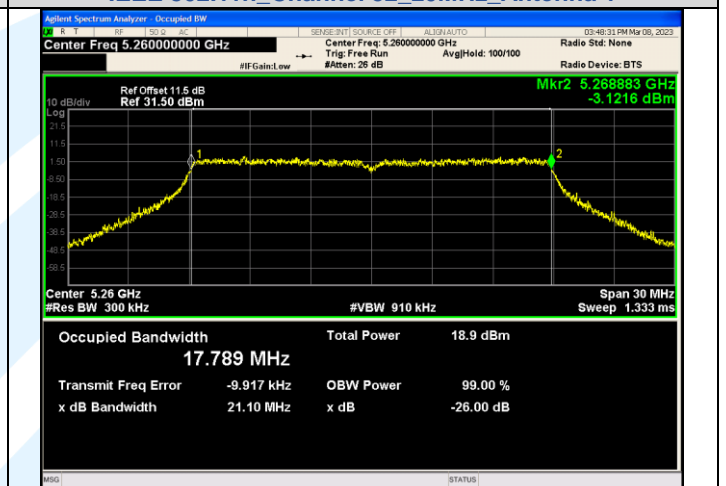
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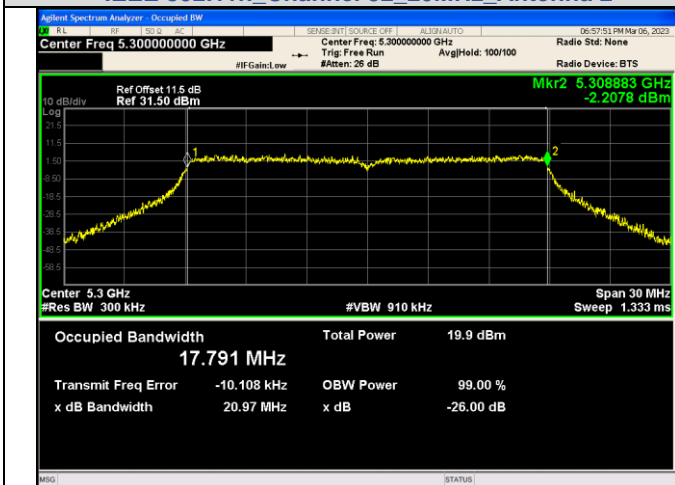
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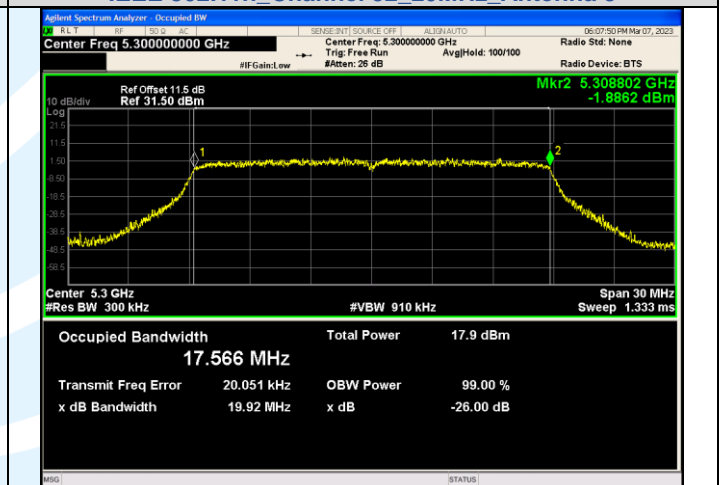
IEEE 802.11n_Channel 52_20MHz_Antenna 2



IEEE 802.11n_Channel 52_20MHz_Antenna 3



IEEE 802.11n_Channel 60_20MHz_Antenna 0



IEEE 802.11n_Channel 60_20MHz_Antenna 1

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