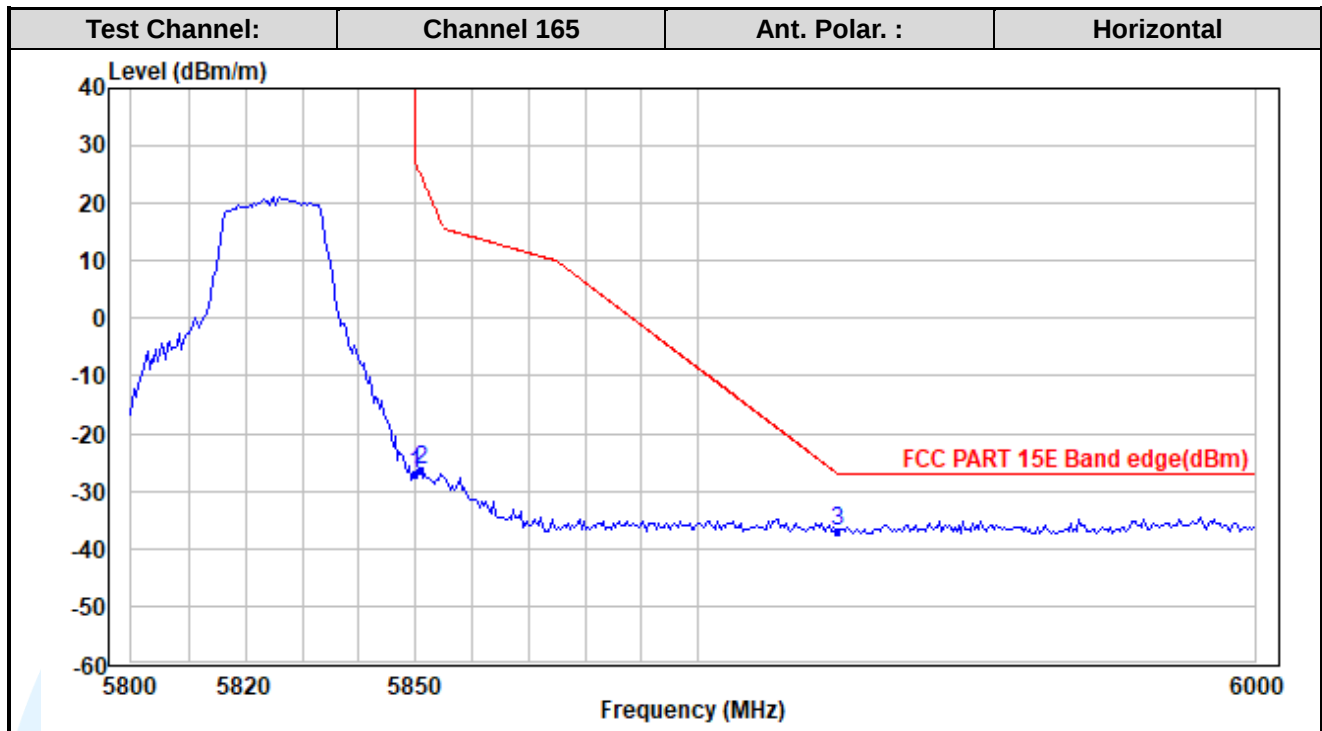
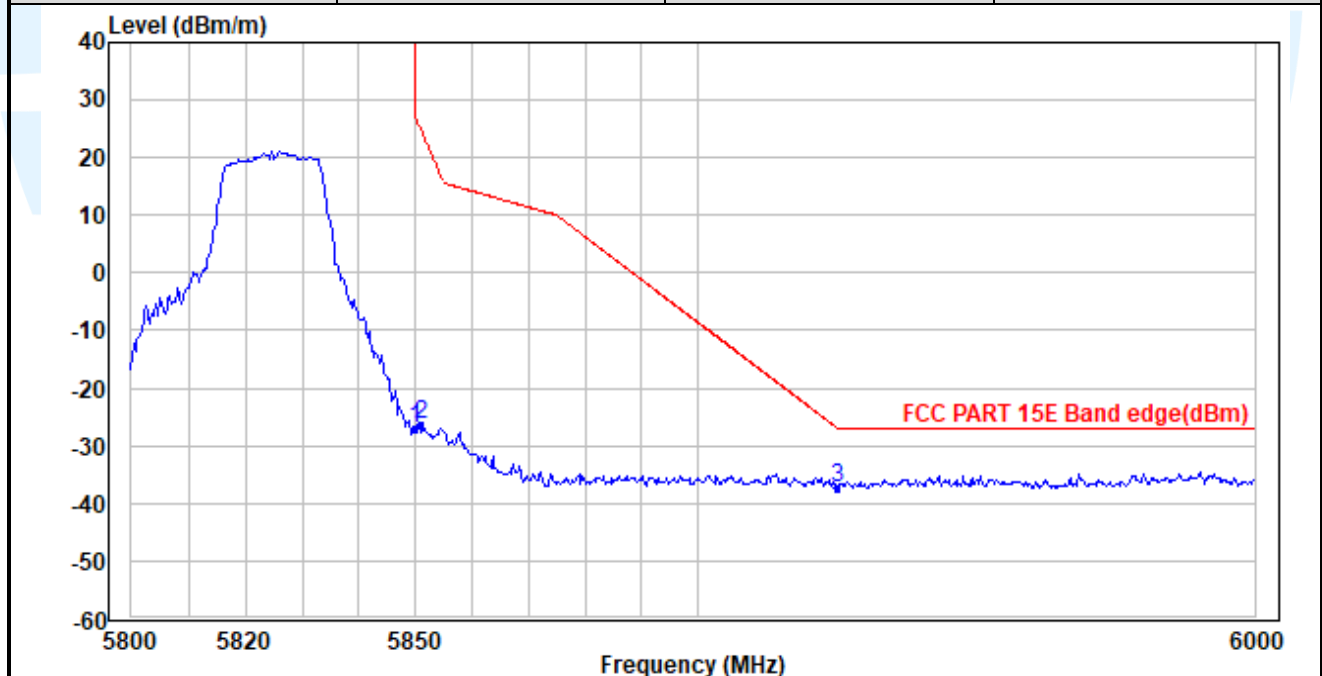




Test Channel:	Channel 165	Ant. Polar. :	Vertical
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Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-27.02	27.00	PASS
5850.902	-26.37	24.94	PASS
5925.000	-37.17	-27.00	PASS

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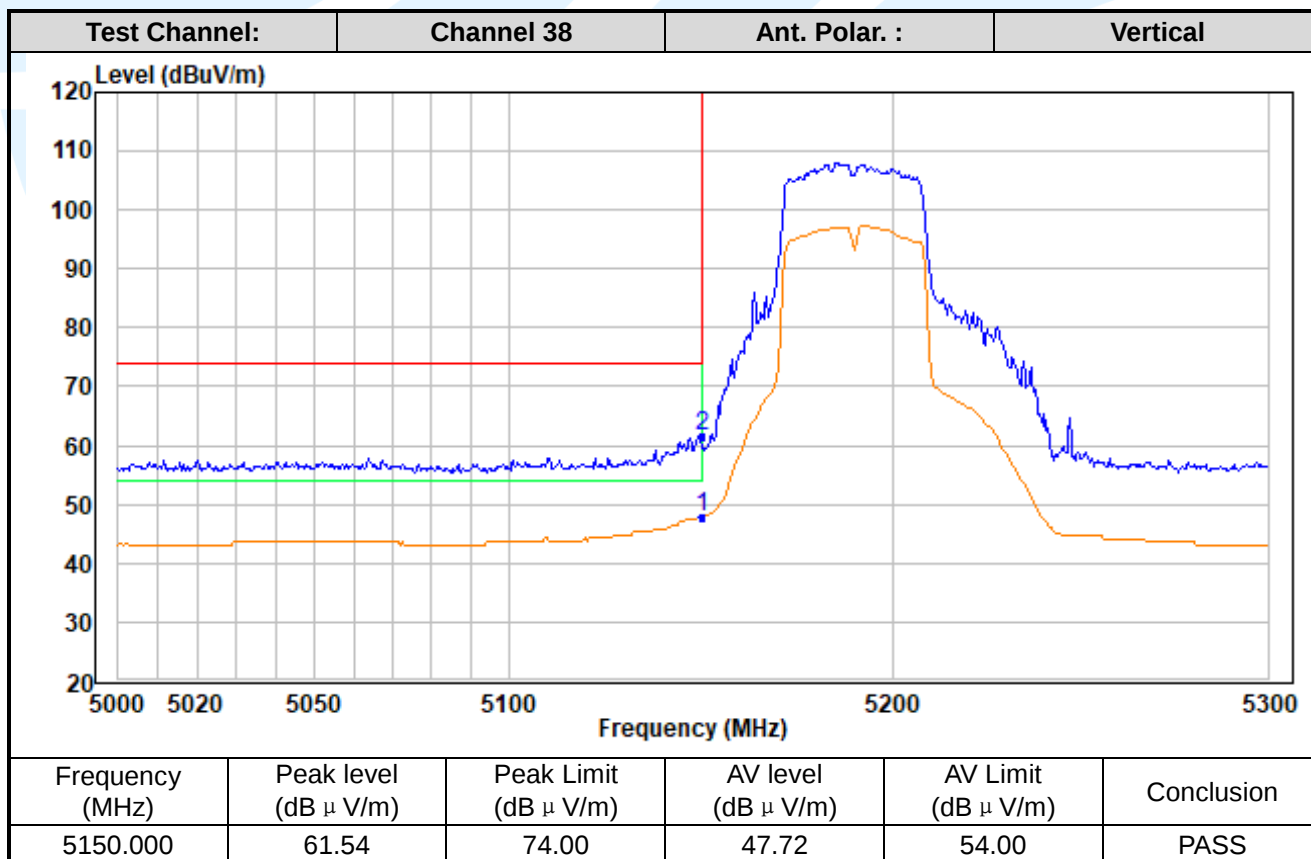
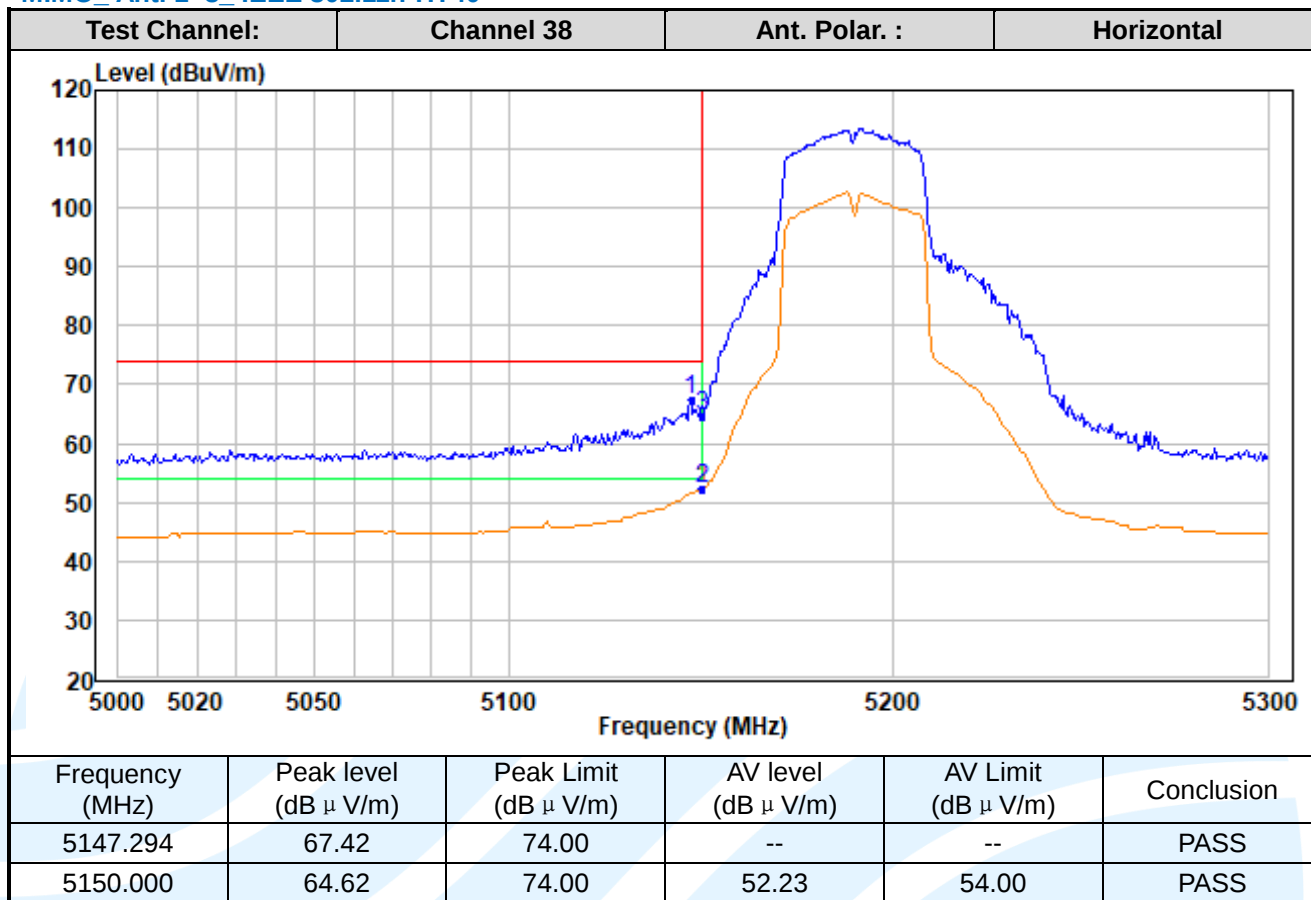
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MIMO_Ant. 1+3_ IEEE 802.11n-HT40



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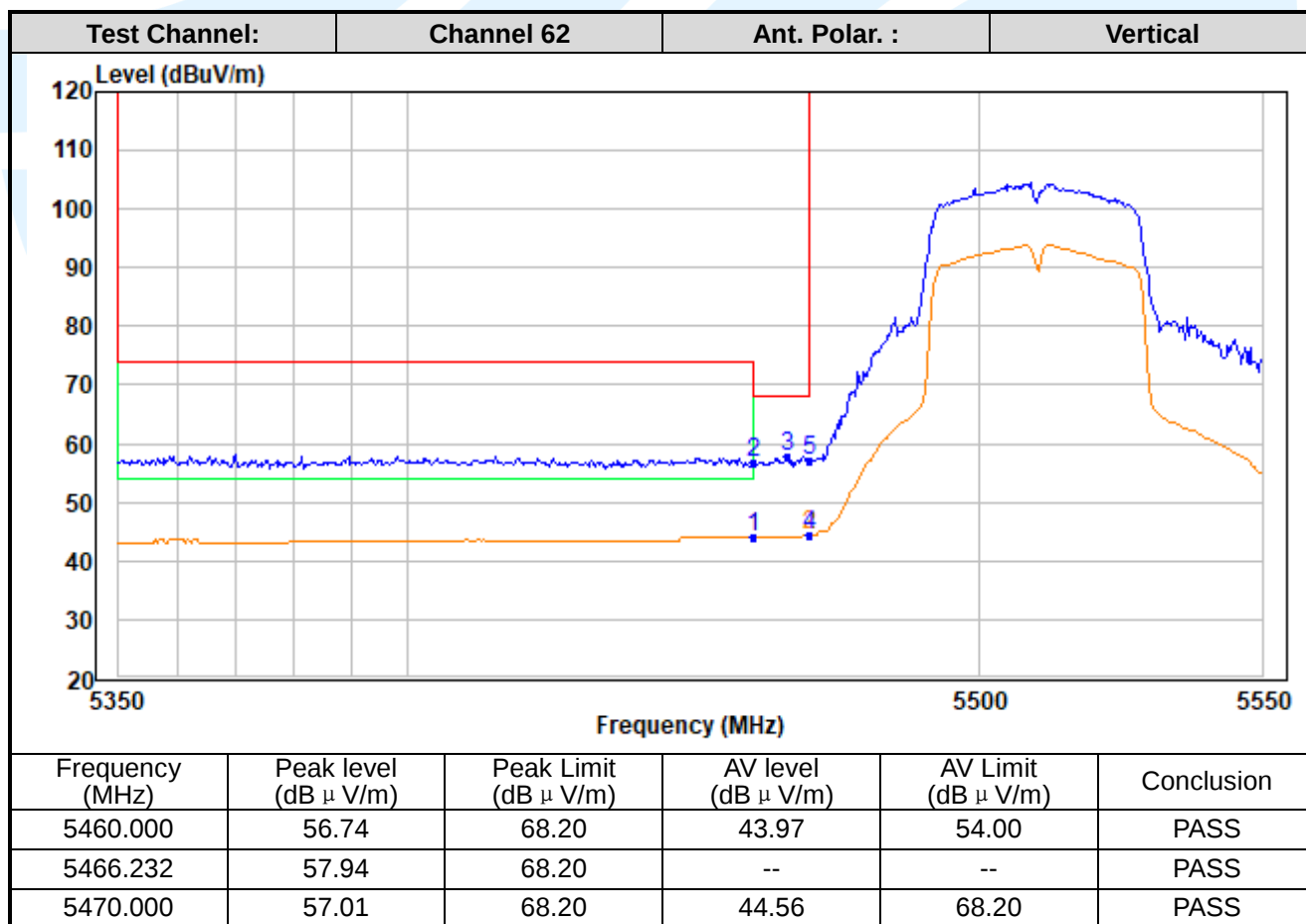
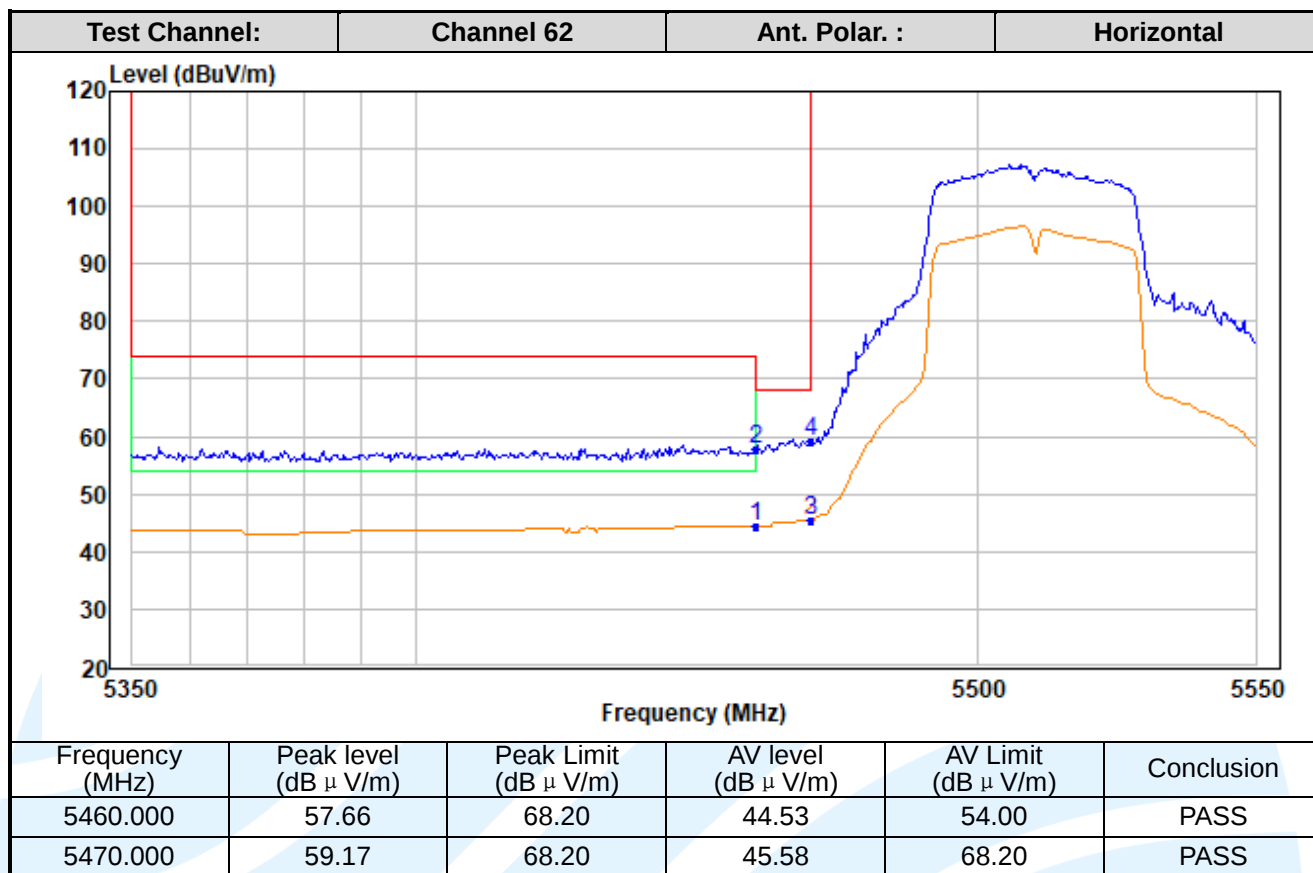
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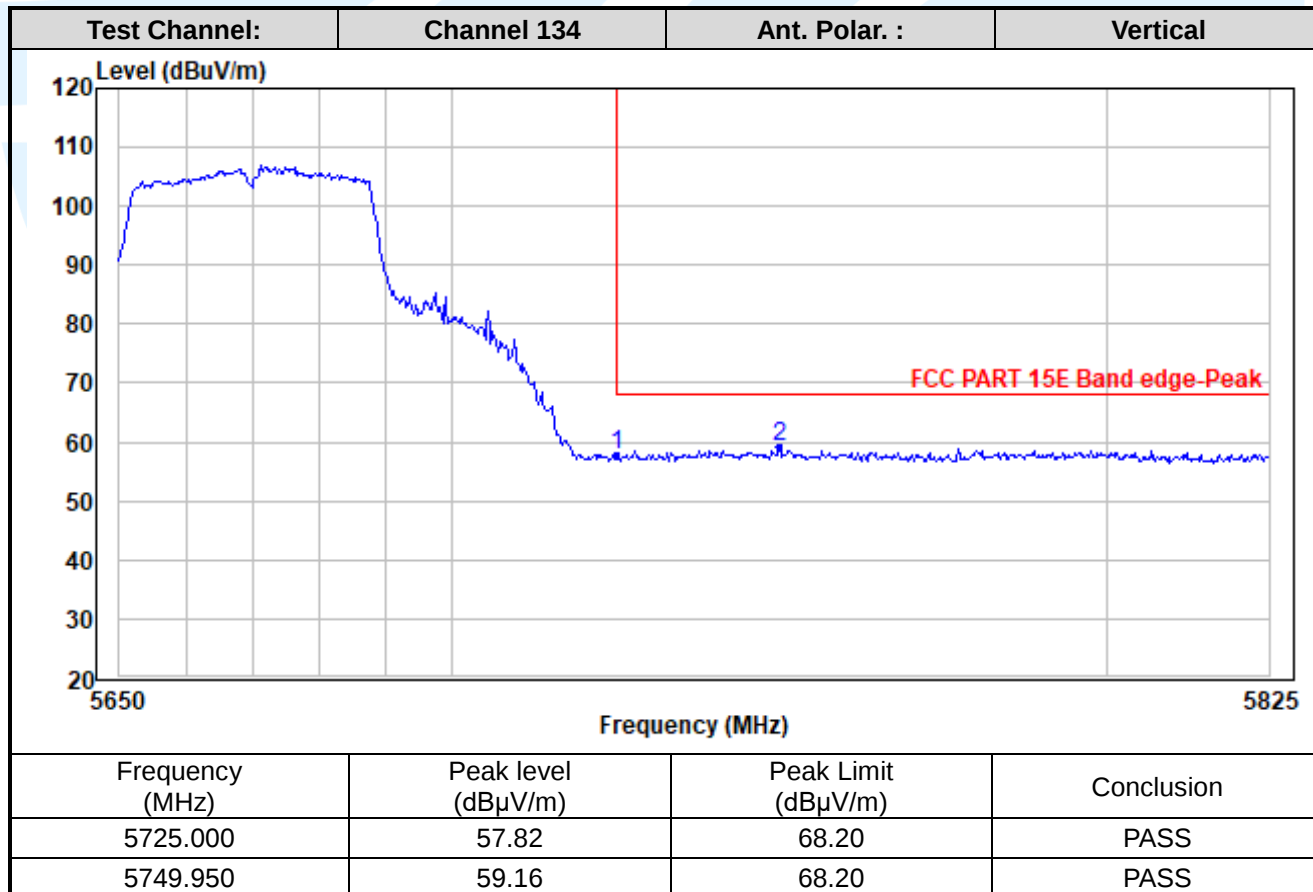
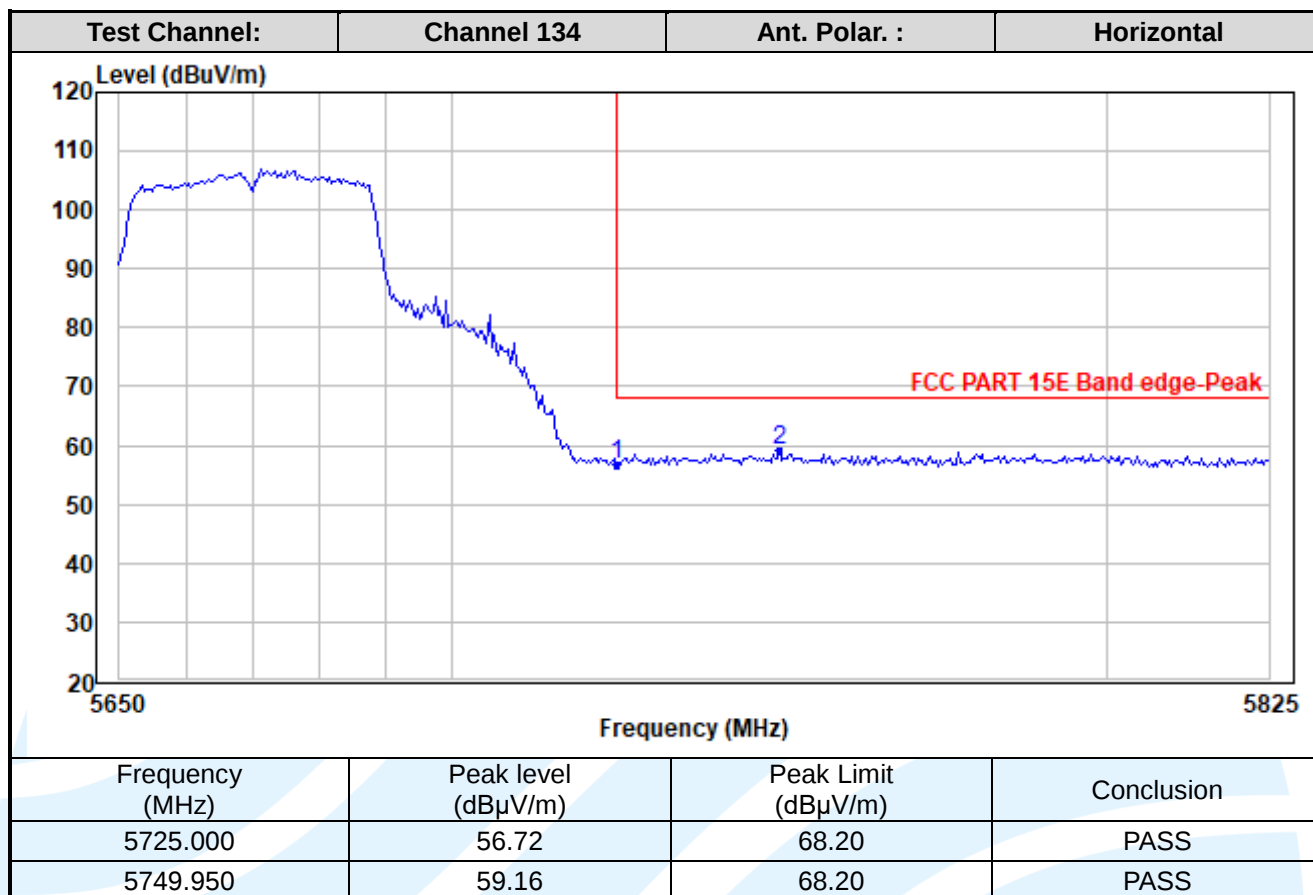
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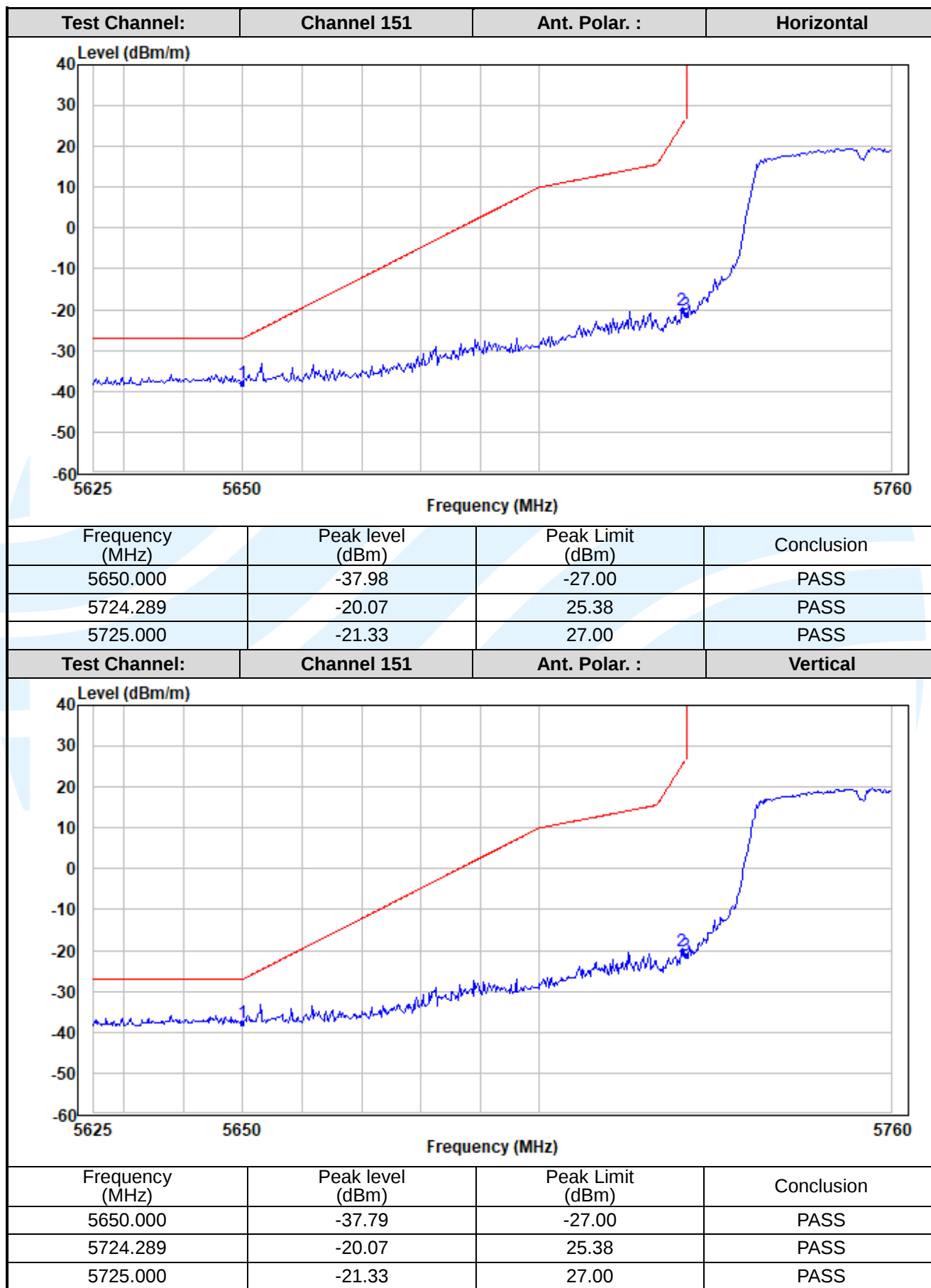
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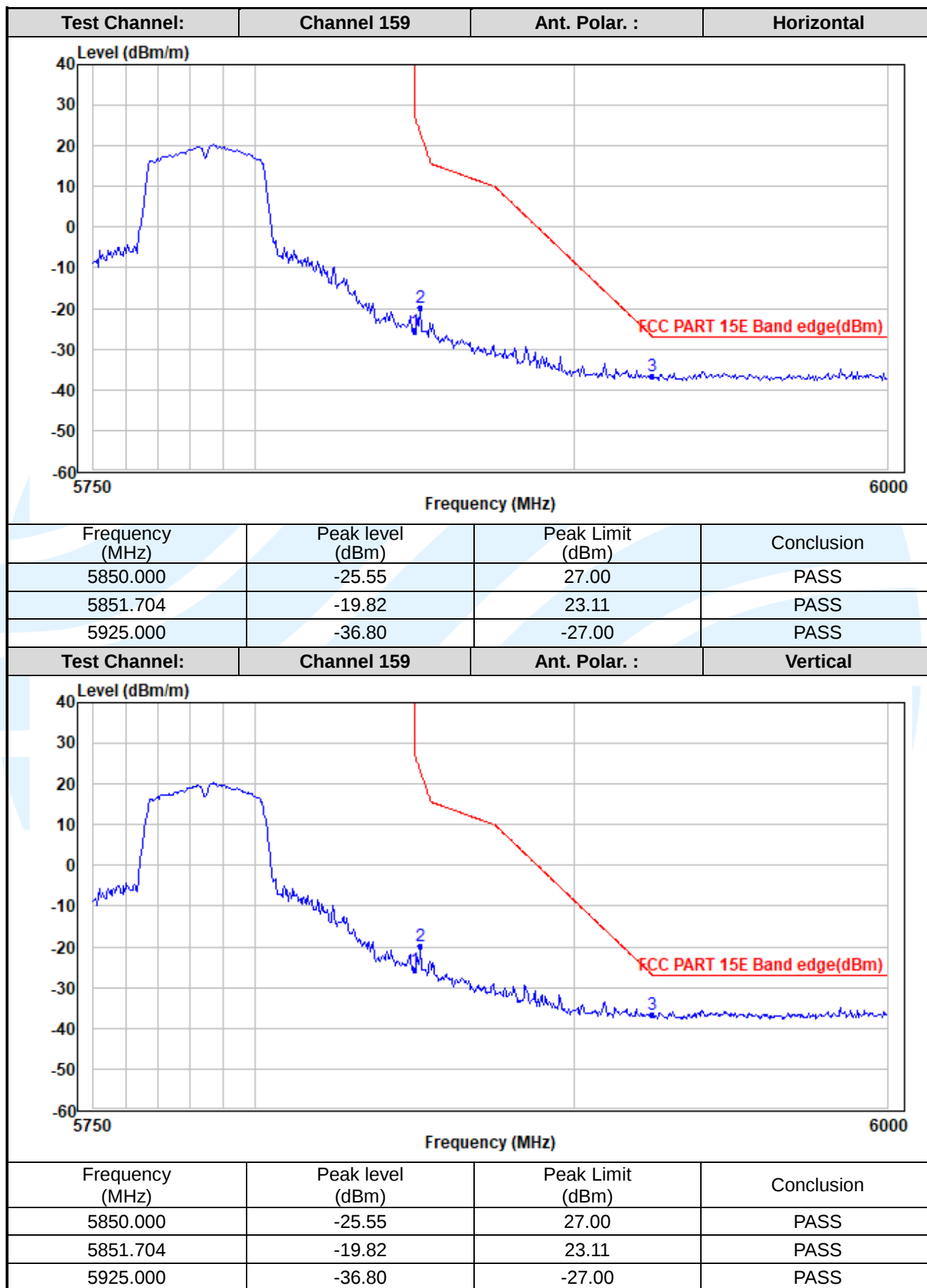
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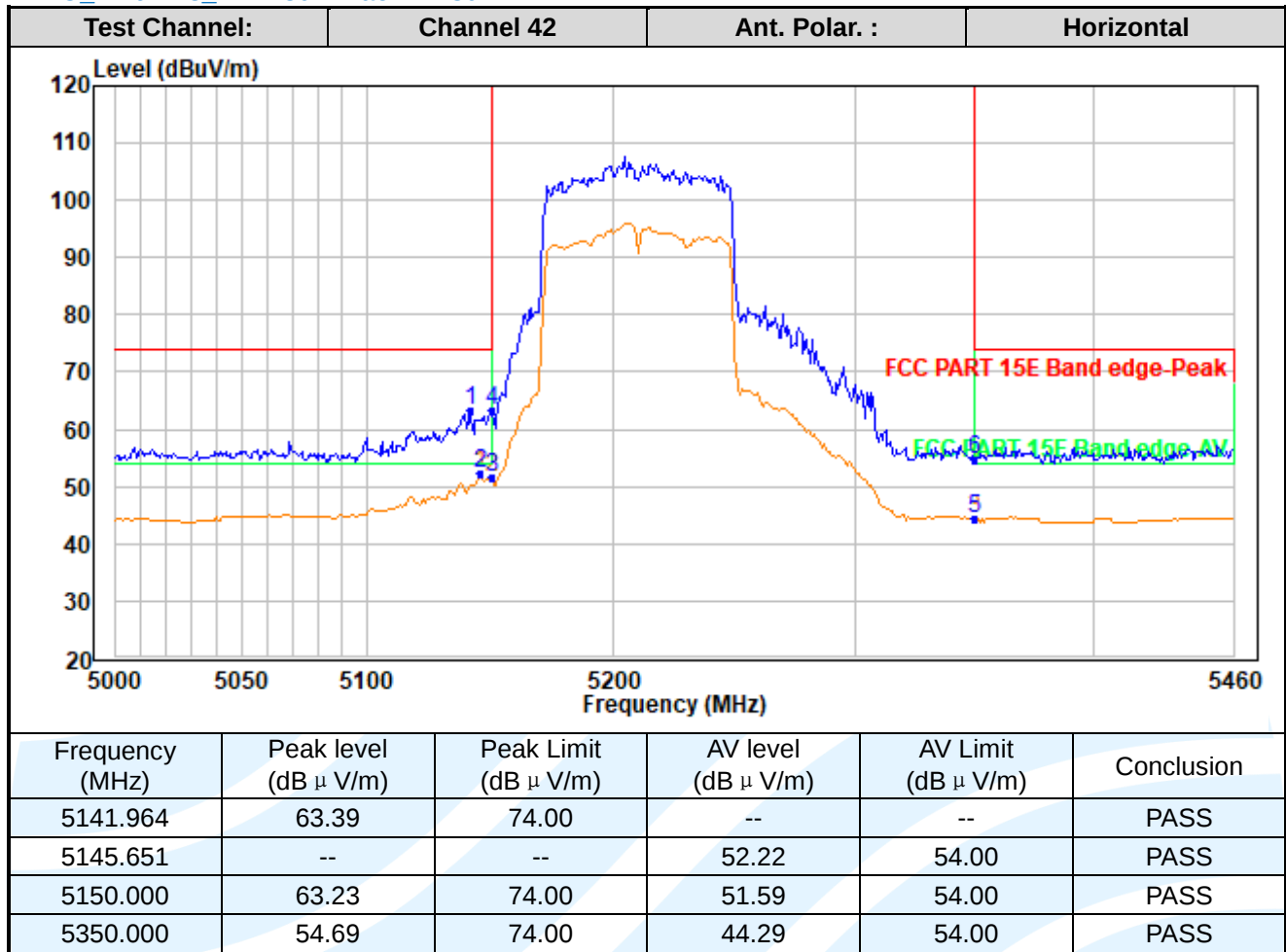
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UTTR-RF-EN300328-V1.2

MIMO_Ant. 1+3_ IEEE 802.11ac-VHT80



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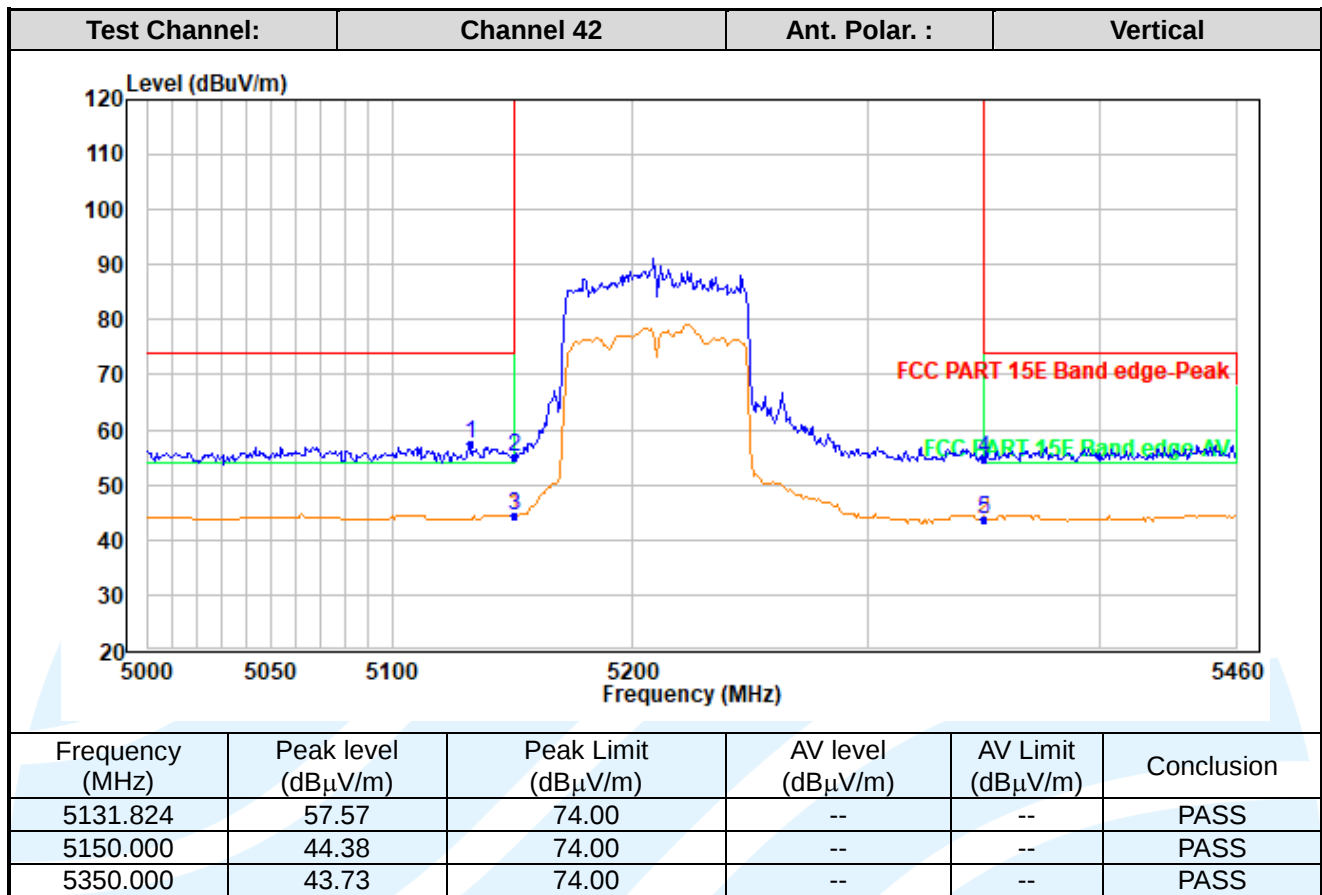
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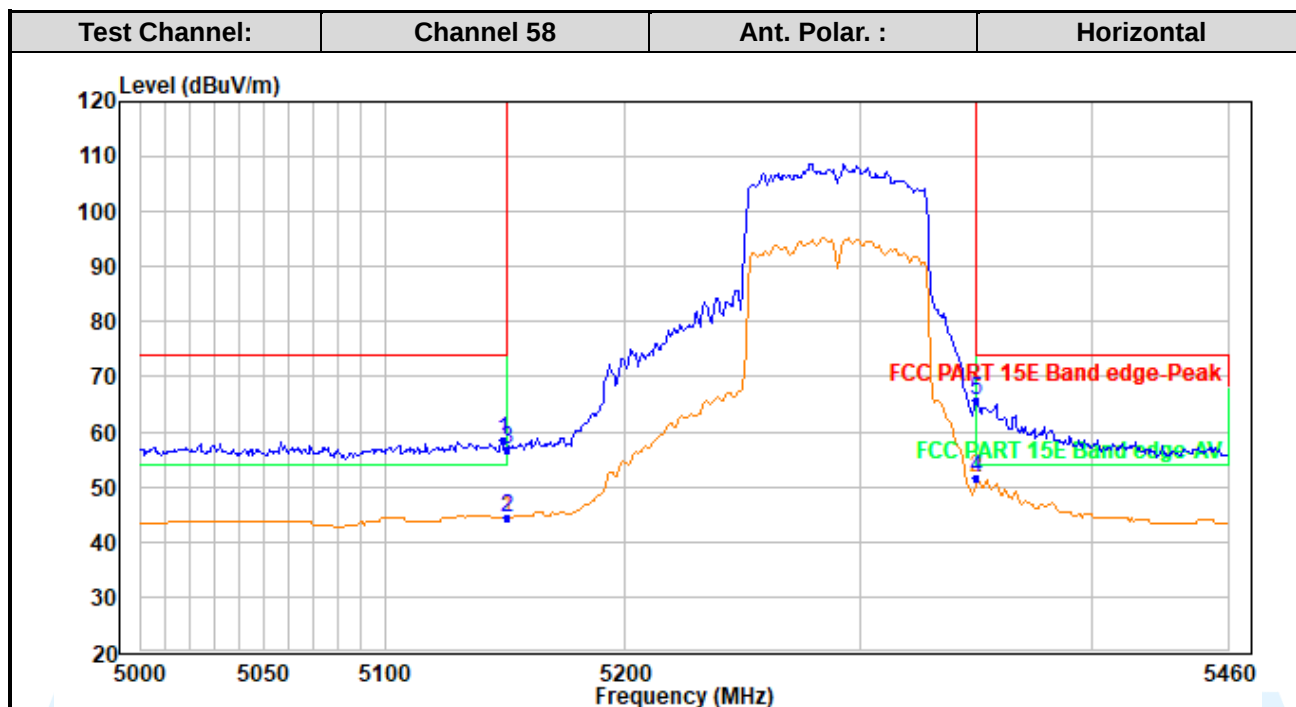
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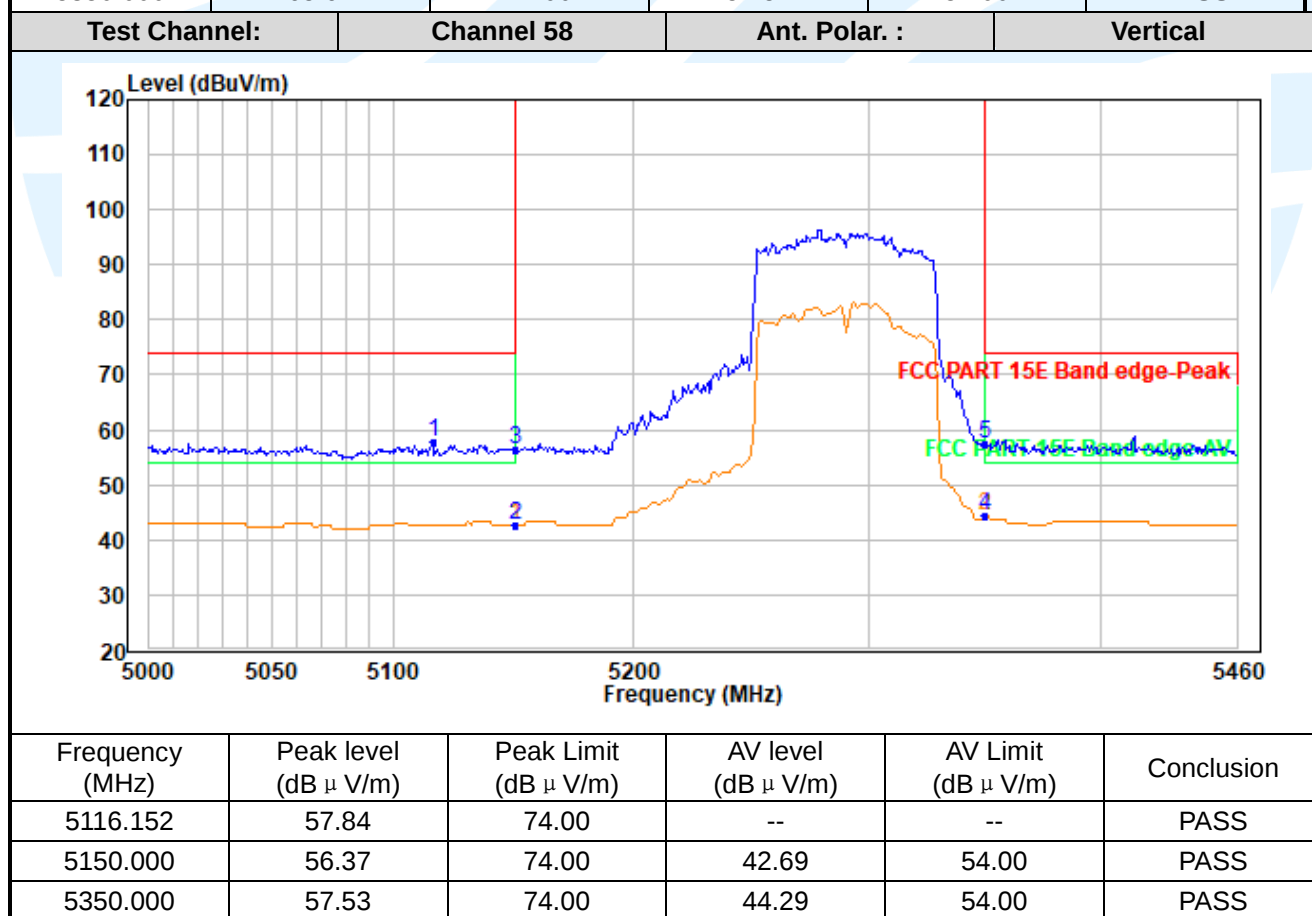
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Frequency (MHz)	Peak level (dB μ V/m)	Peak Limit (dB μ V/m)	AV level (dB μ V/m)	AV Limit (dB μ V/m)	Conclusion
5148.417	58.49	74.00	--	--	PASS
5150.000	56.82	74.00	44.38	54.00	PASS
5350.000	65.61	74.00	51.57	54.00	PASS



Frequency (MHz)	Peak level (dB μ V/m)	Peak Limit (dB μ V/m)	AV level (dB μ V/m)	AV Limit (dB μ V/m)	Conclusion
5116.152	57.84	74.00	--	--	PASS
5150.000	56.37	74.00	42.69	54.00	PASS
5350.000	57.53	74.00	44.29	54.00	PASS

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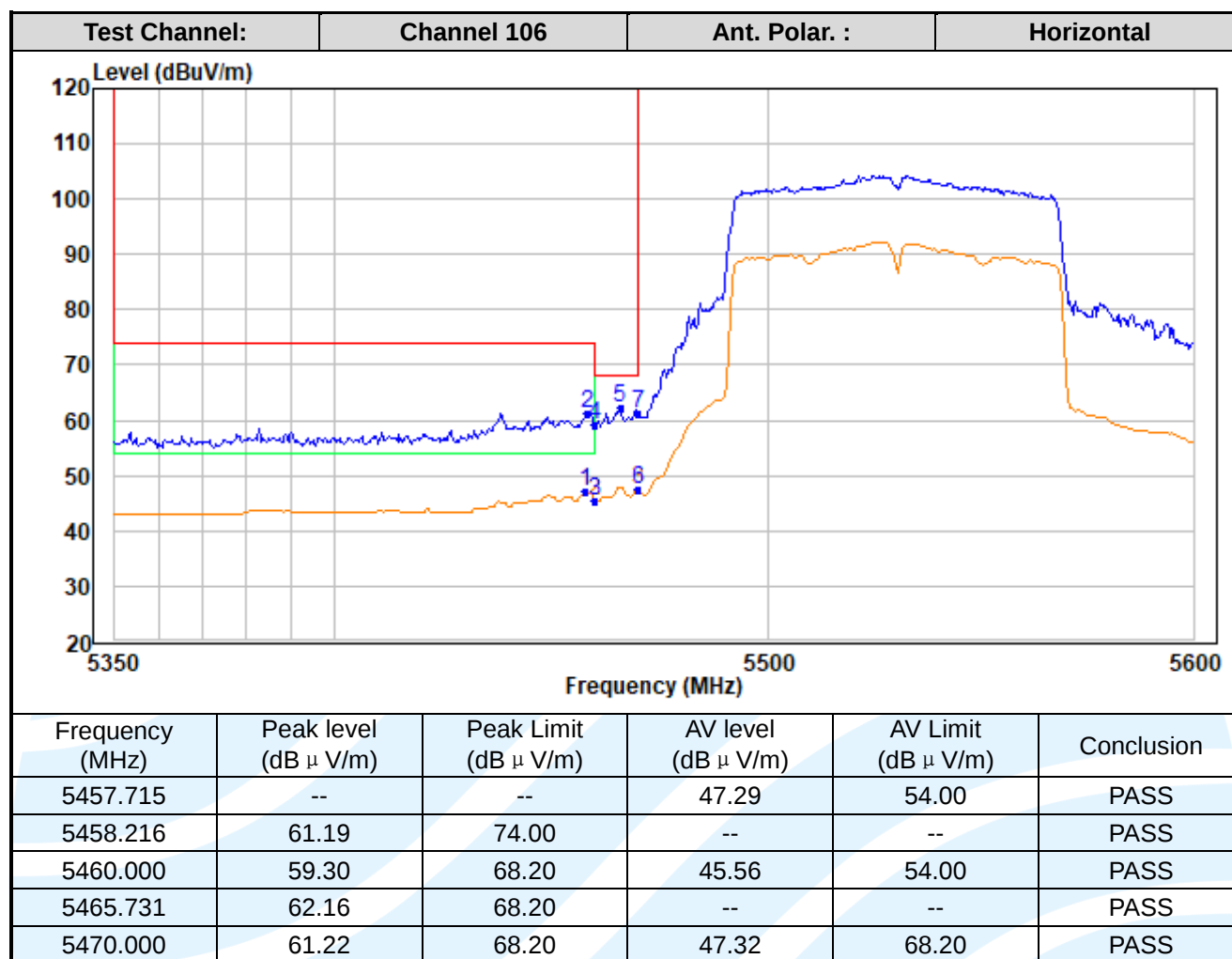
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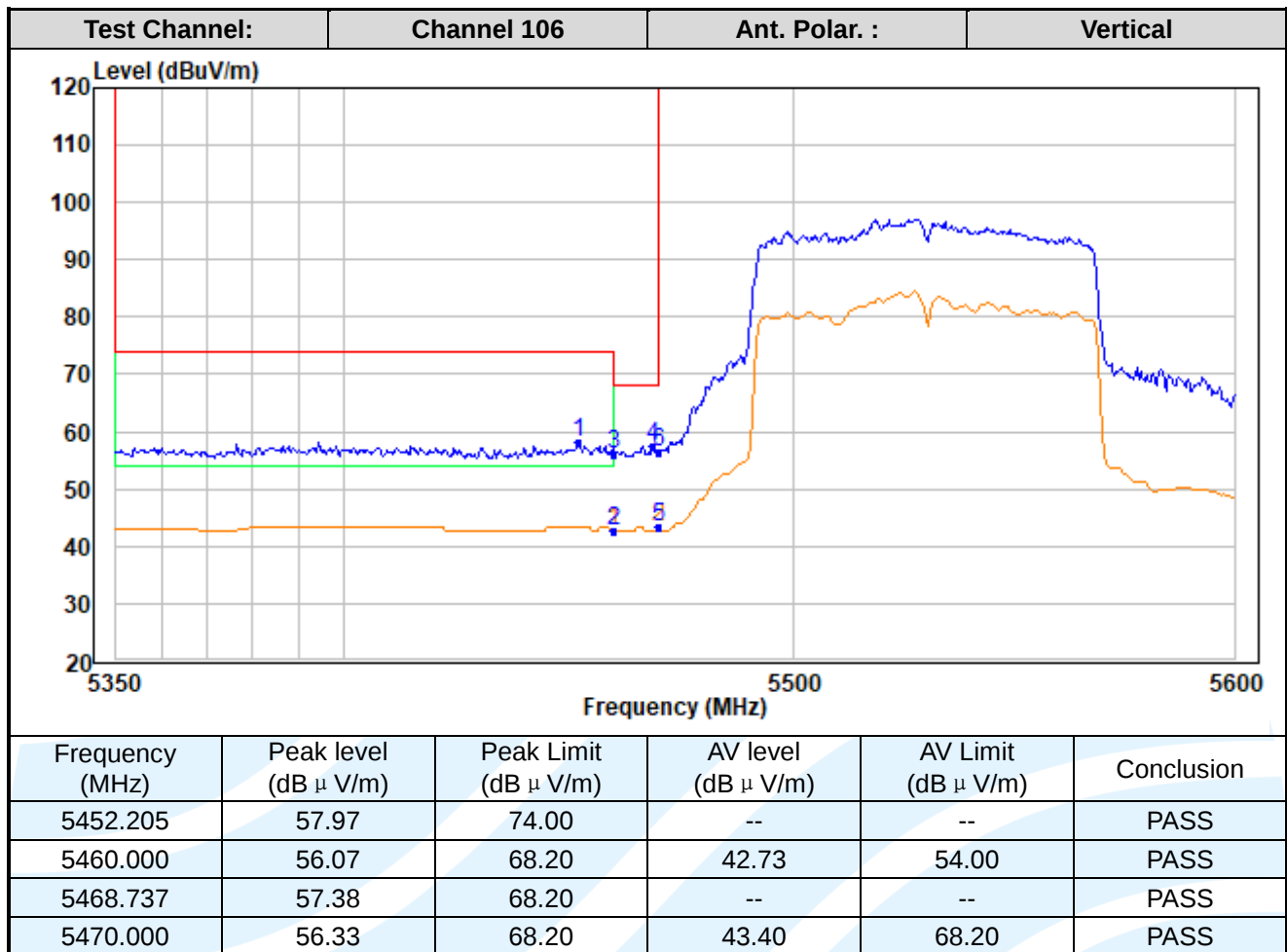
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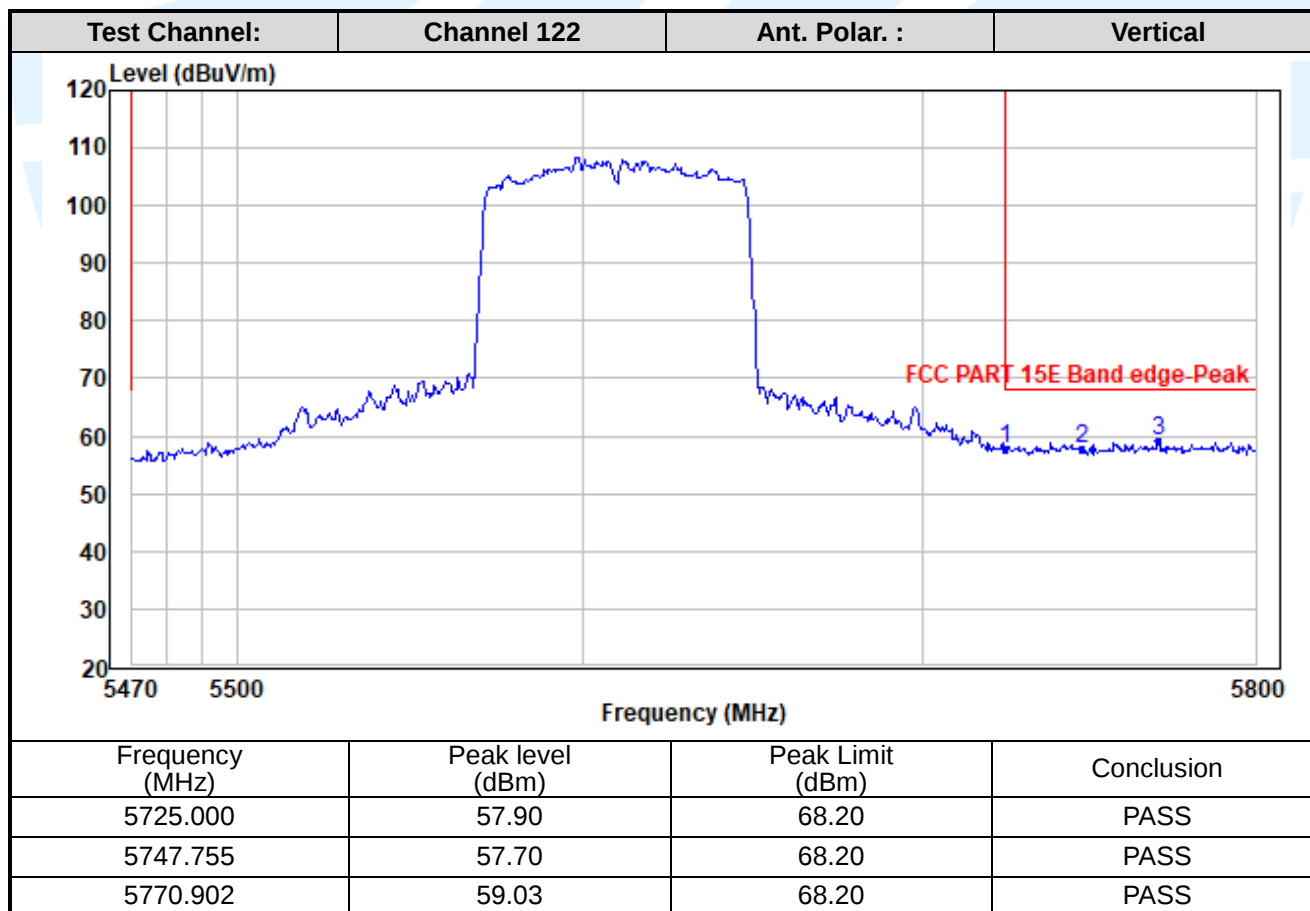
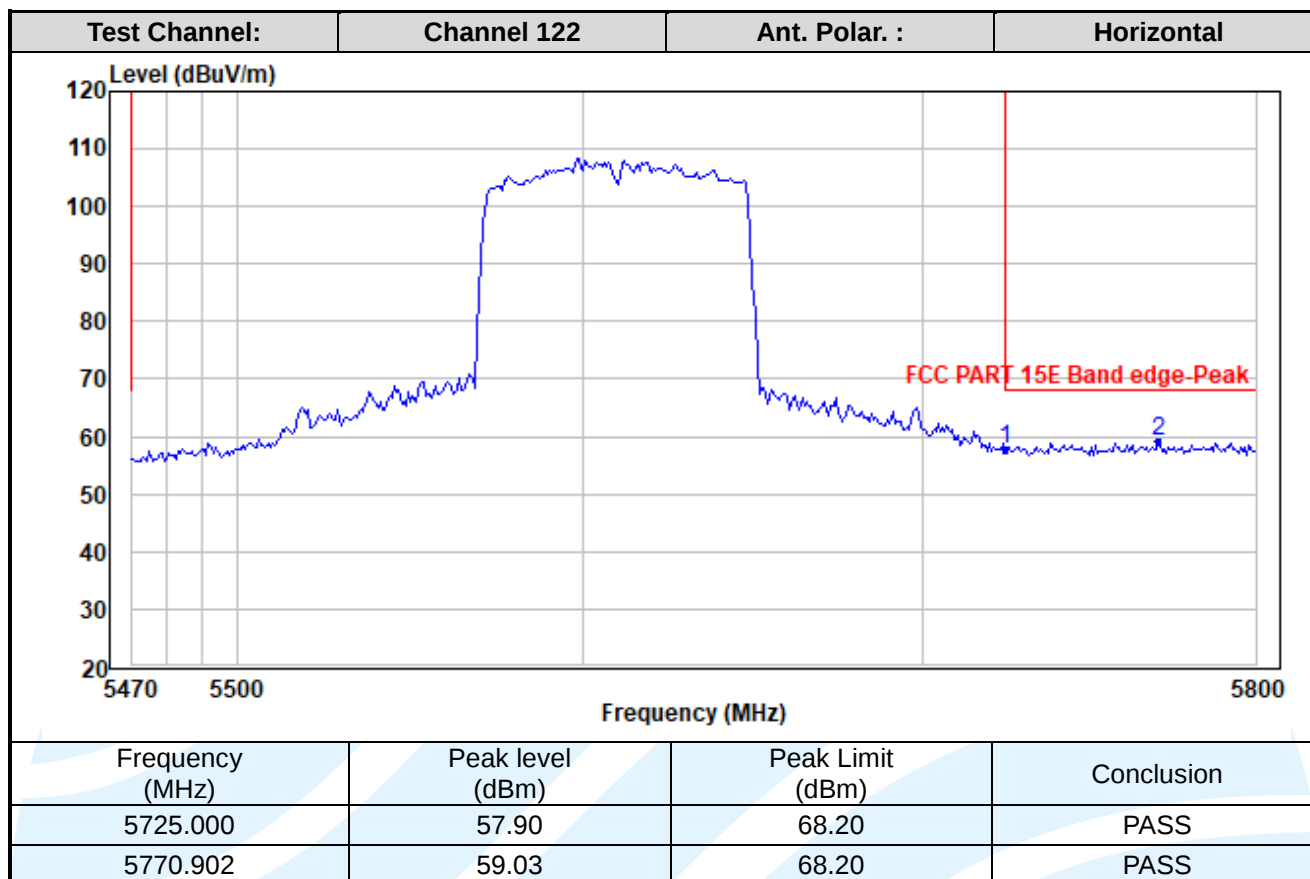
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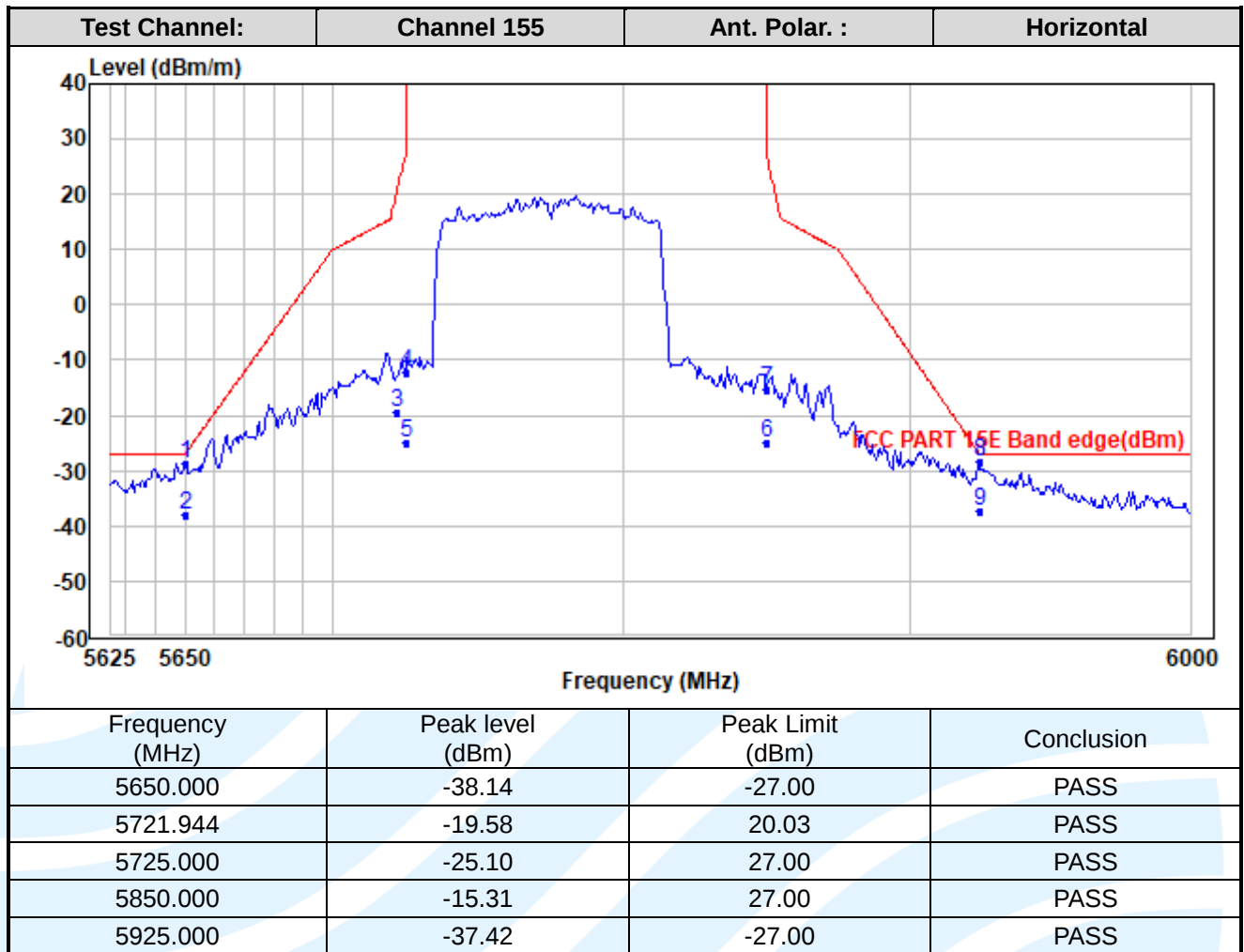
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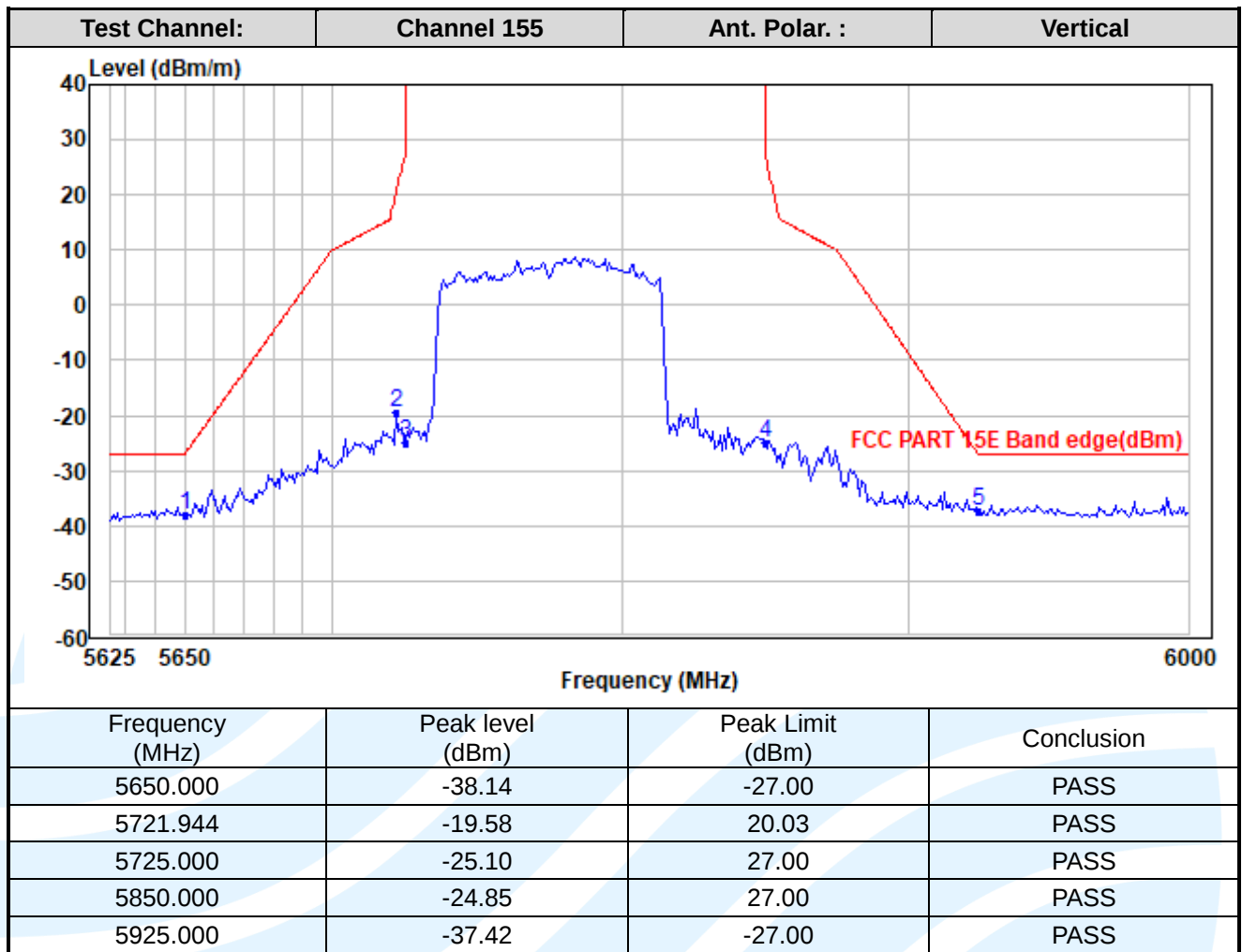
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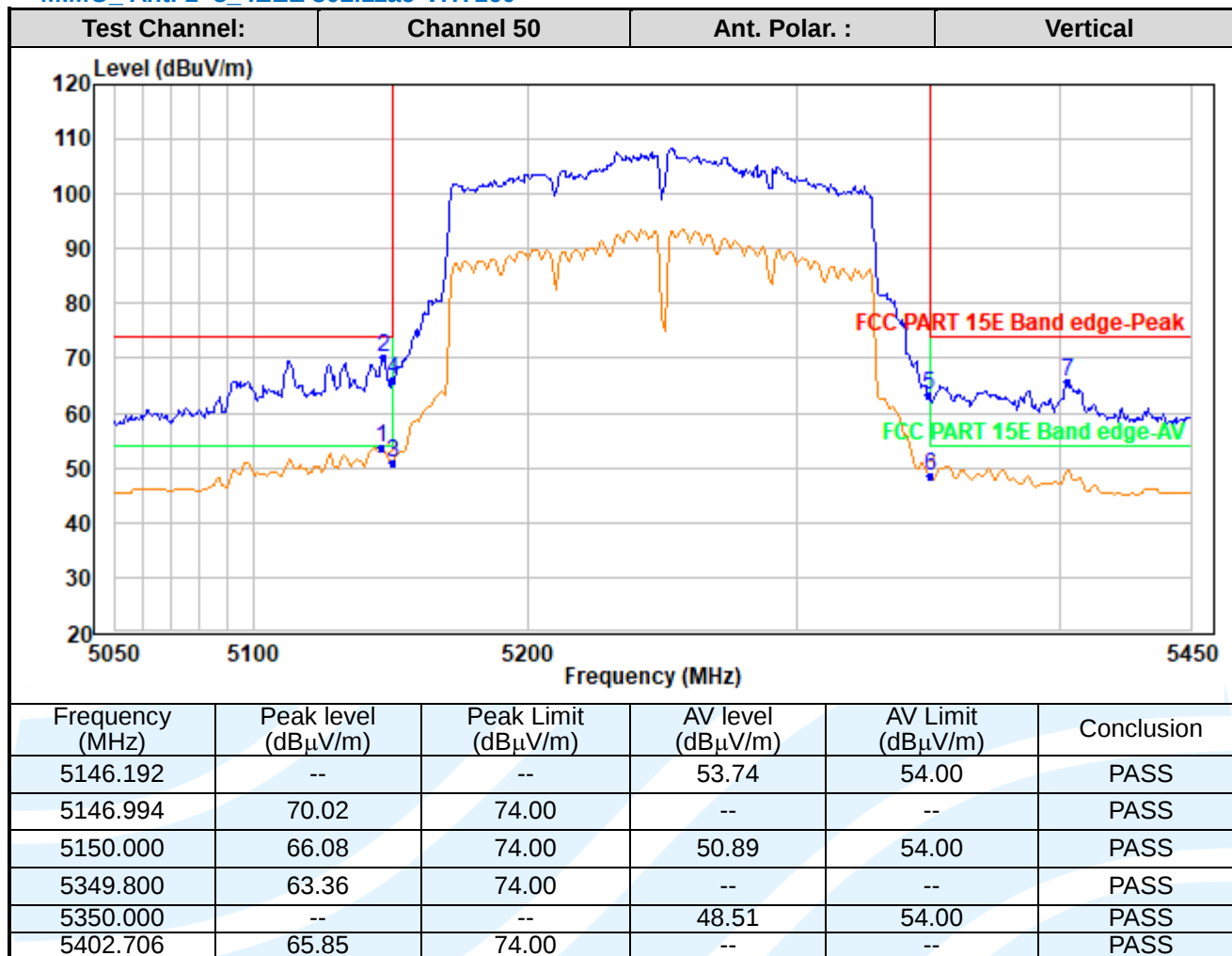
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MIMO_Ant. 1+3_ IEEE 802.11ac-VHT160



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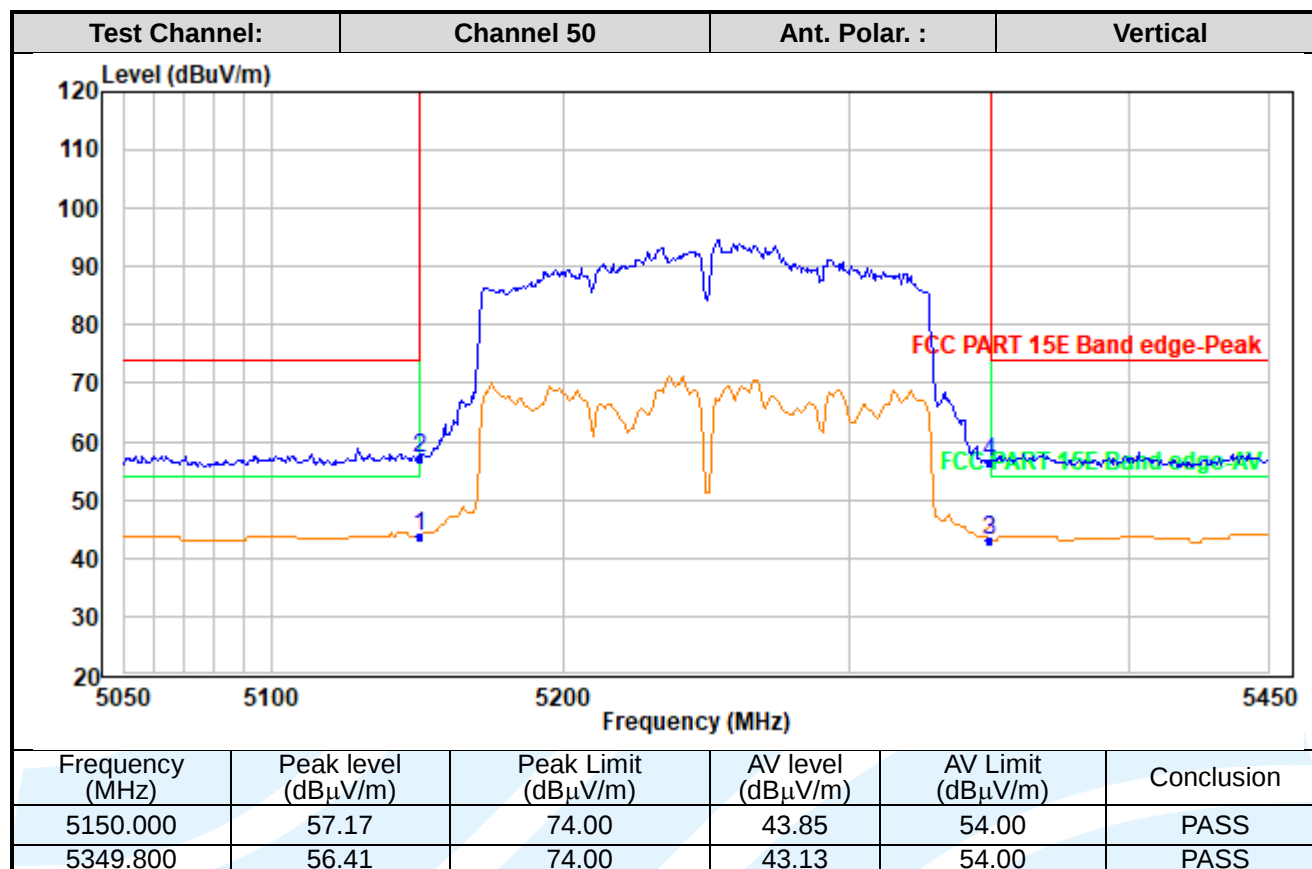
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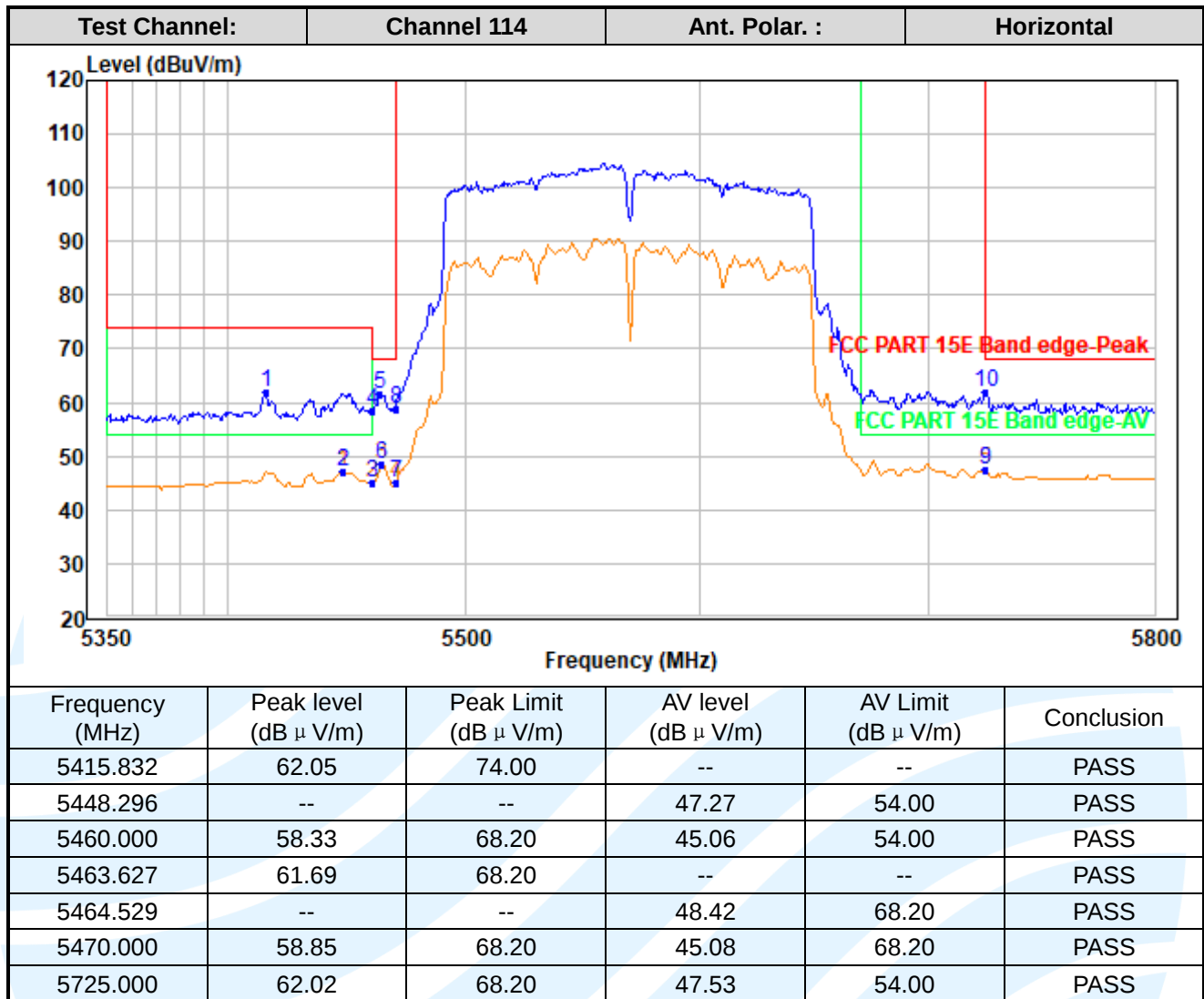
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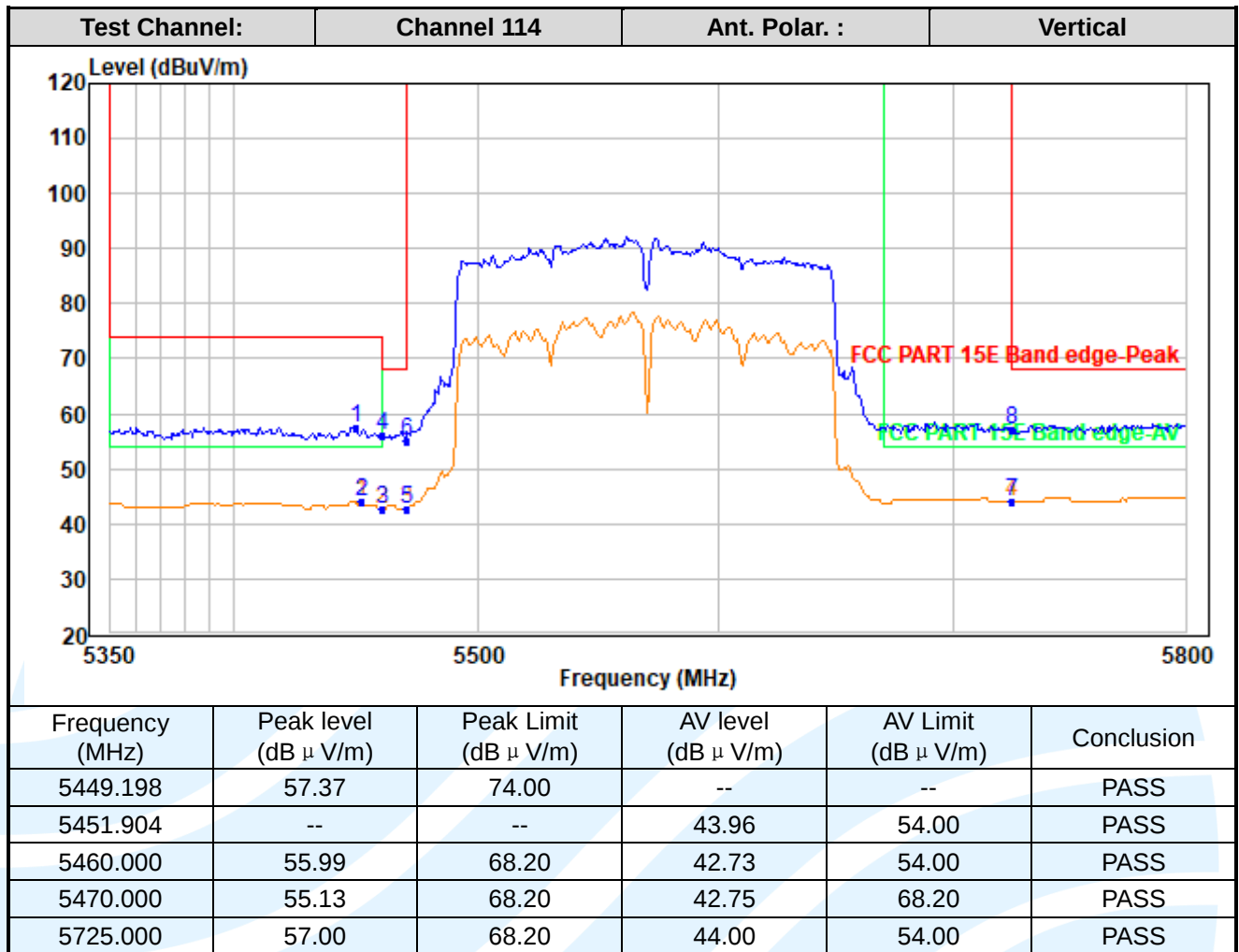
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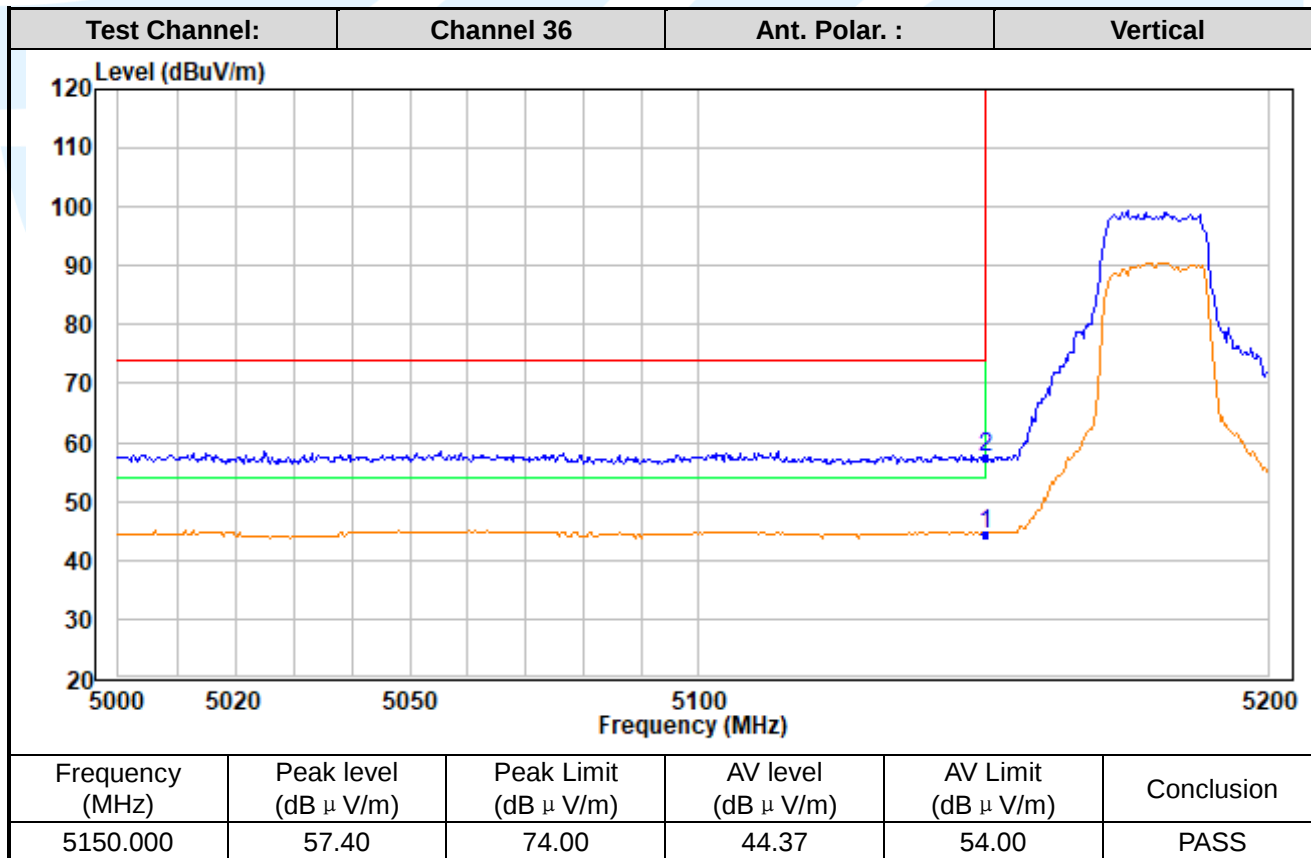
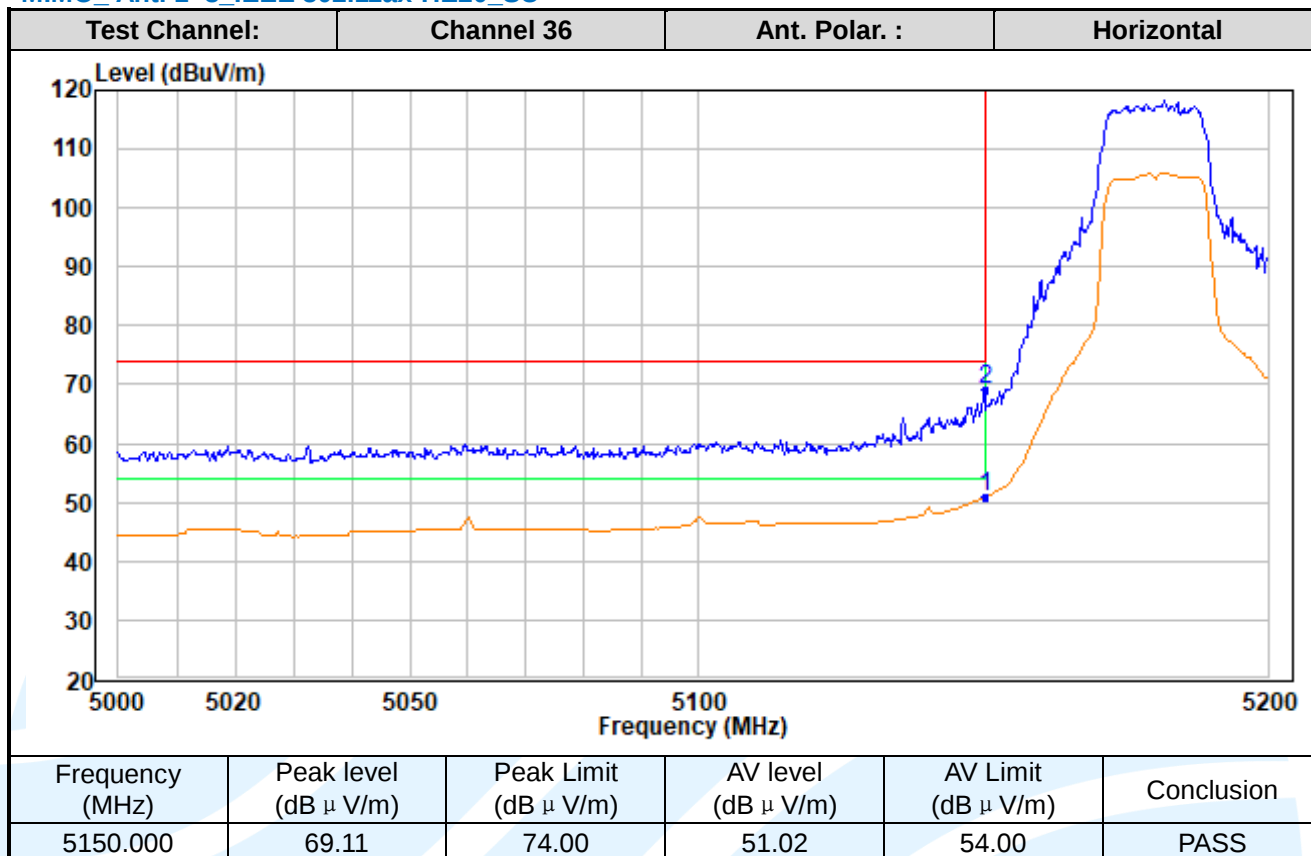
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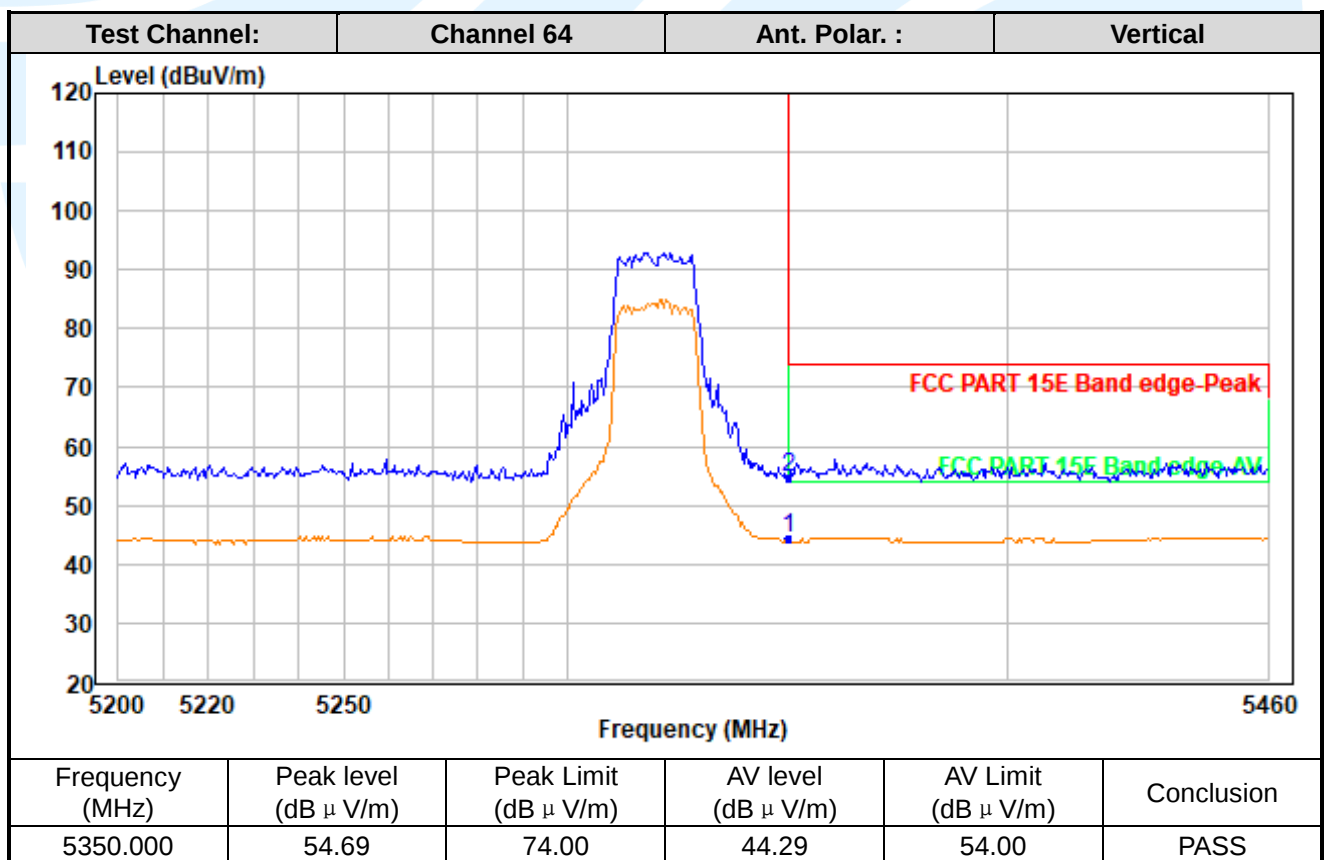
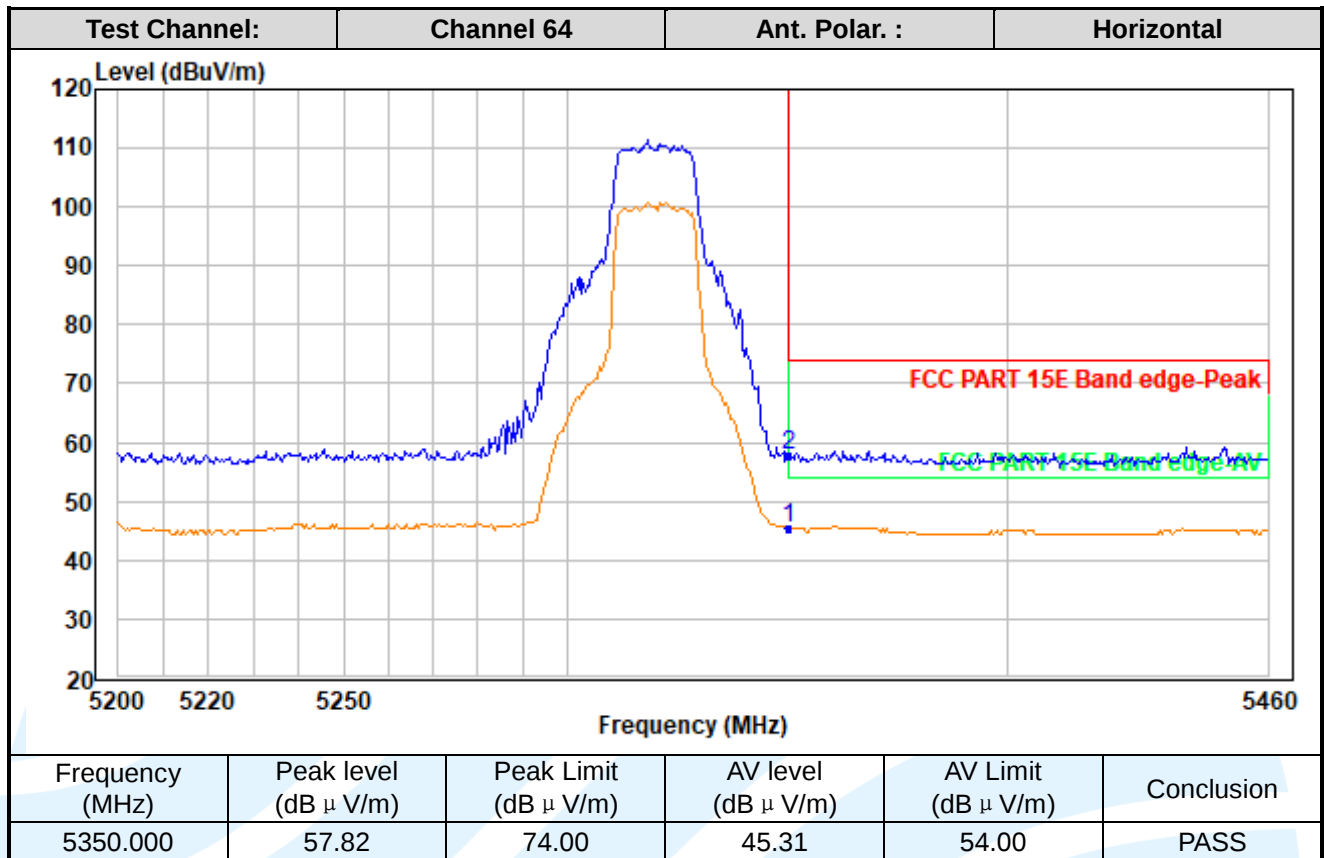
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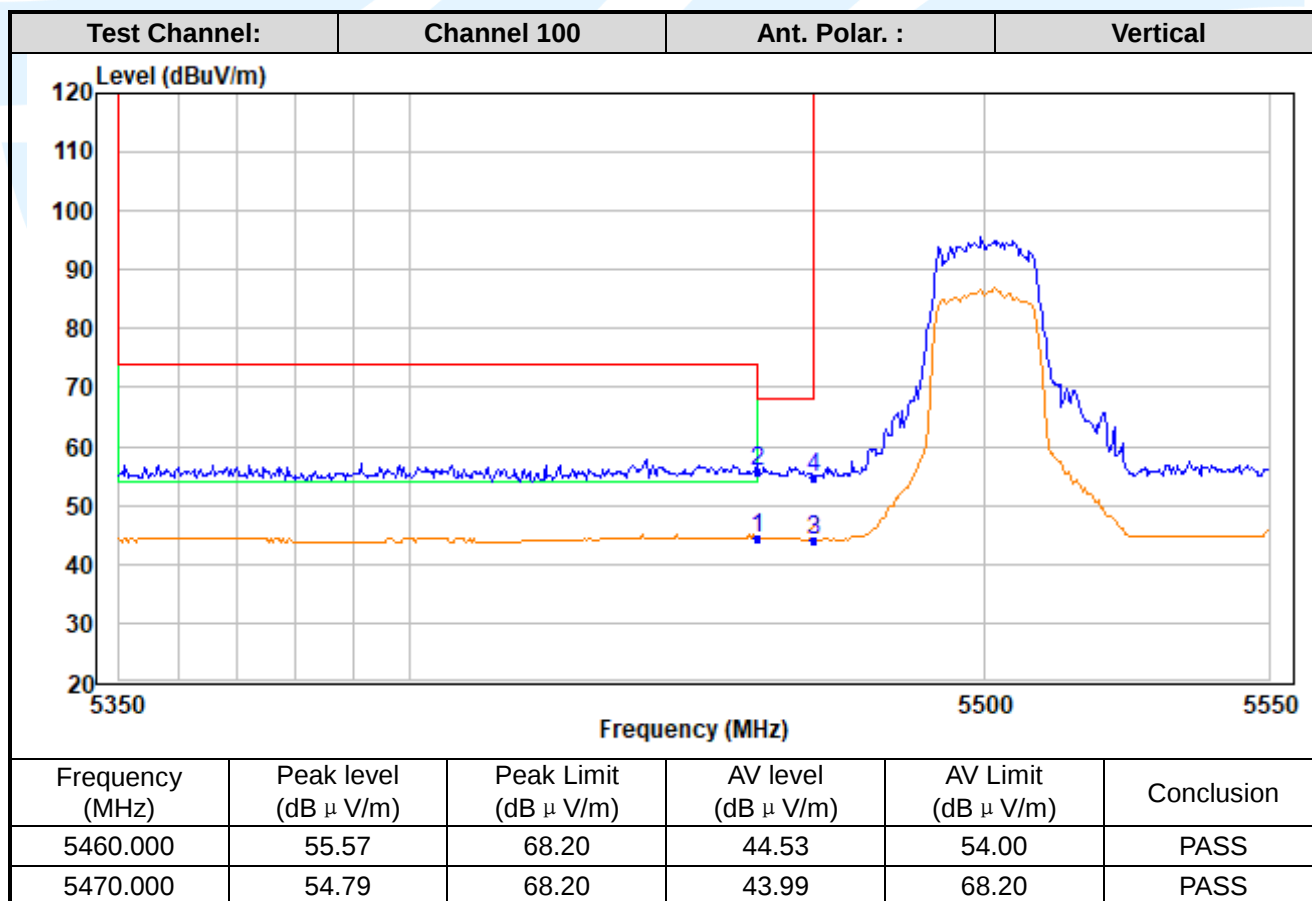
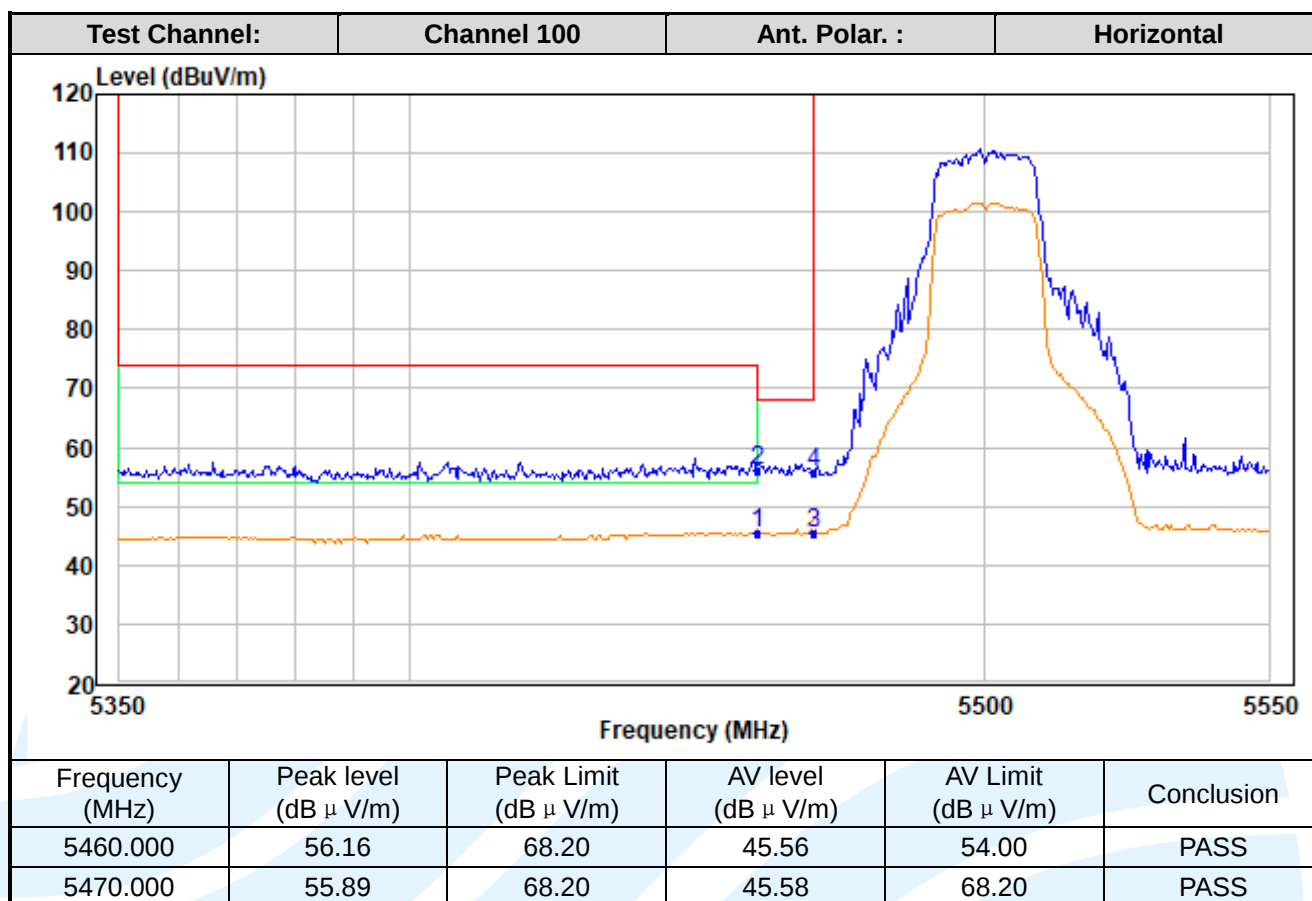
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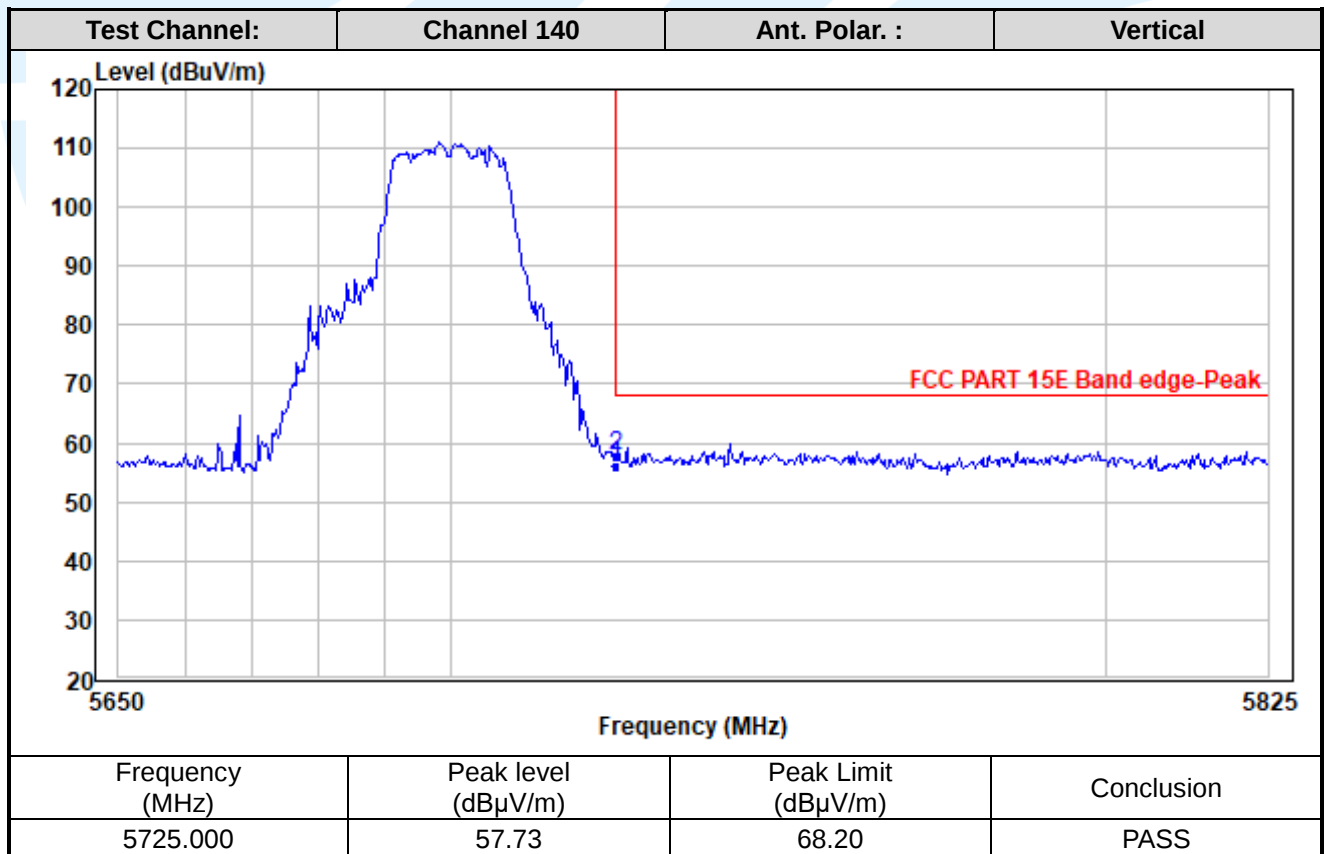
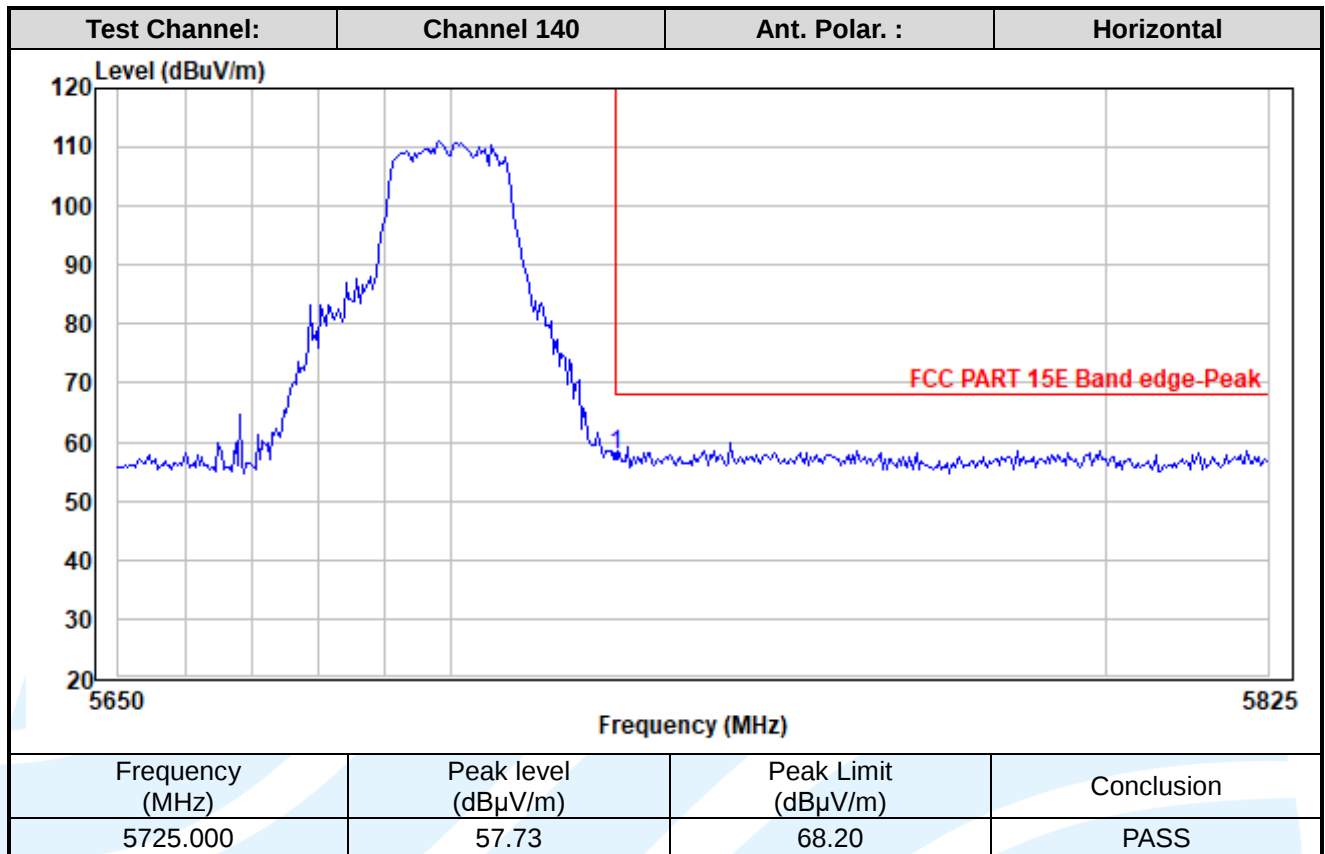
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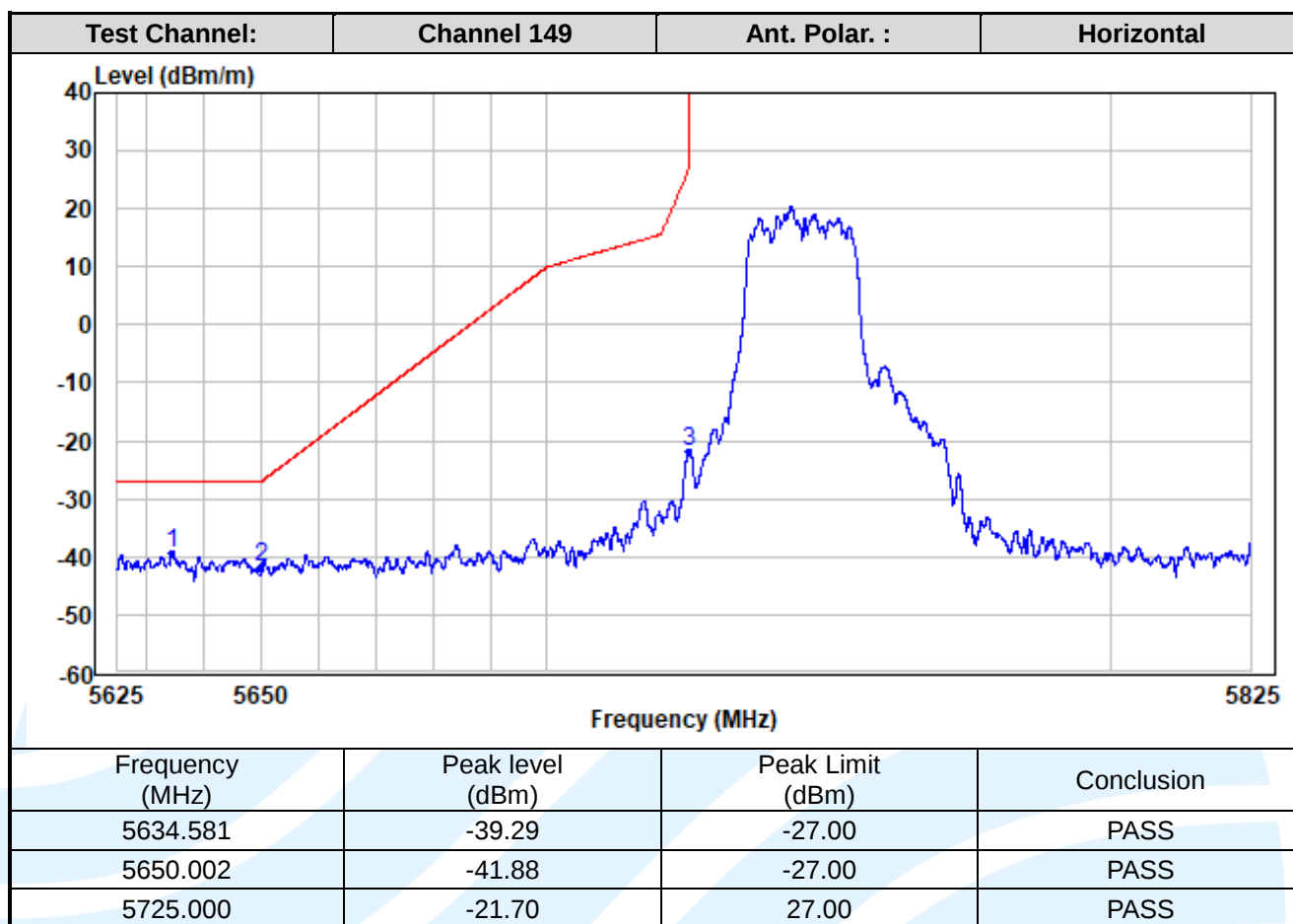
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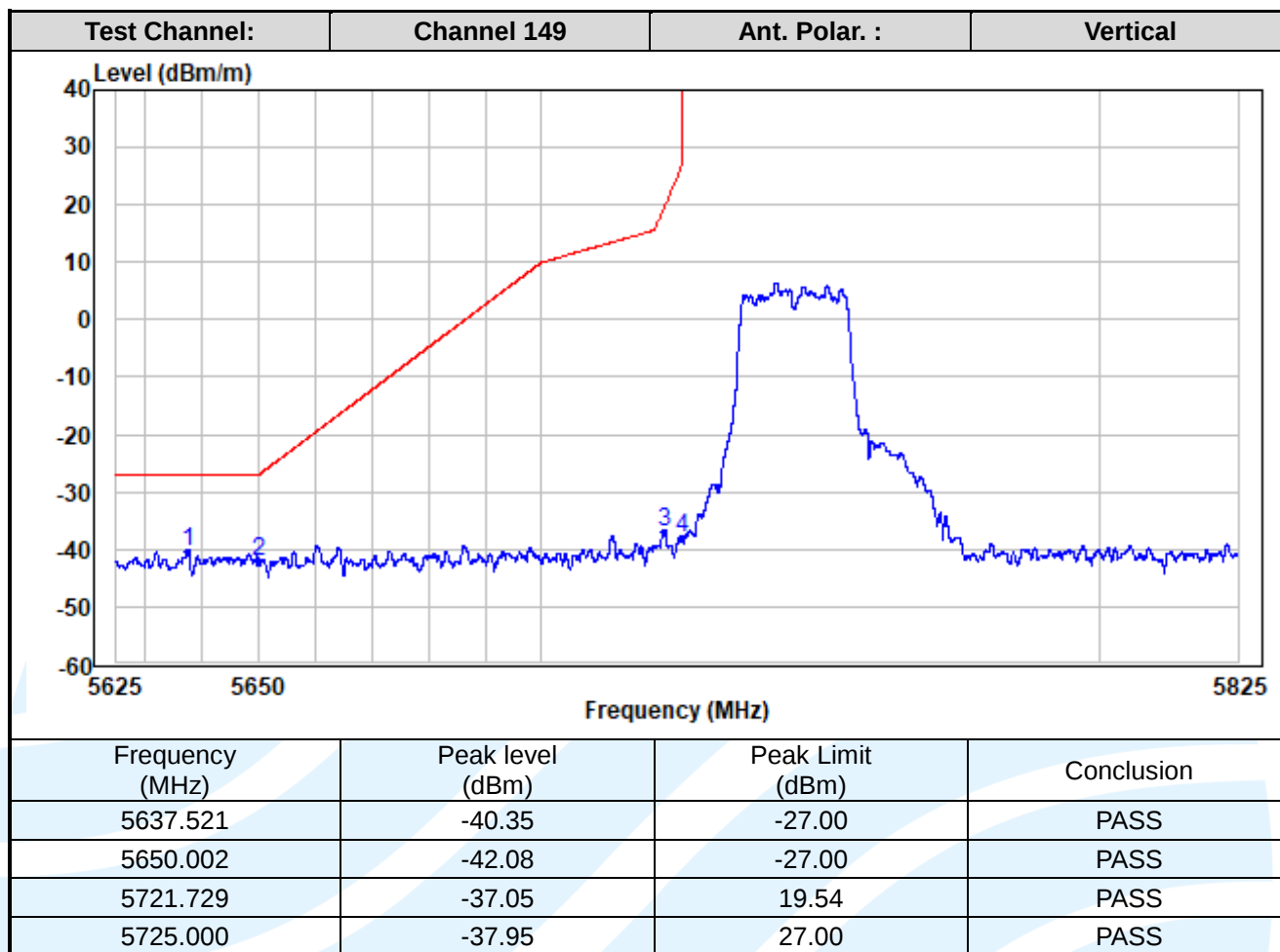
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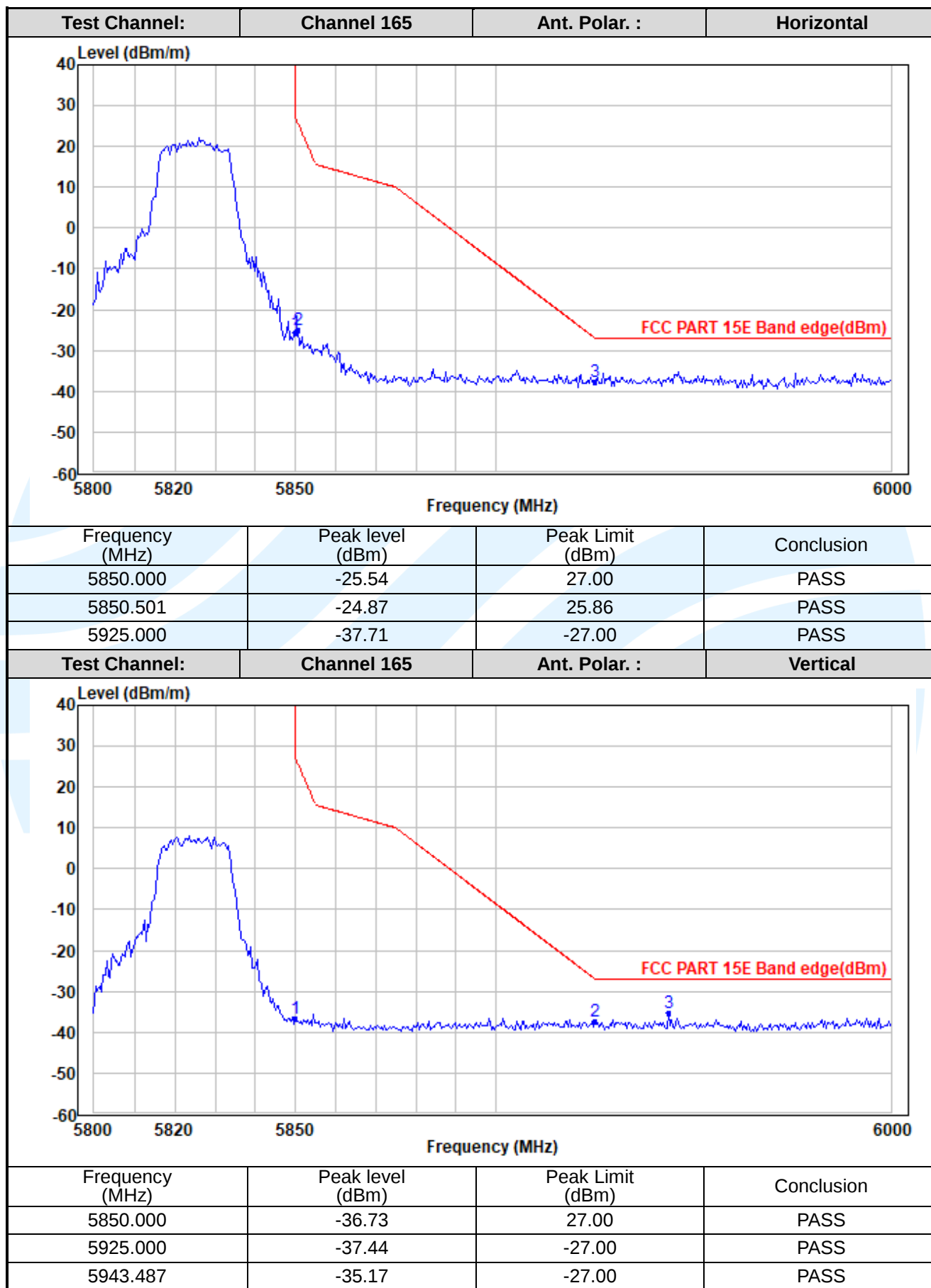
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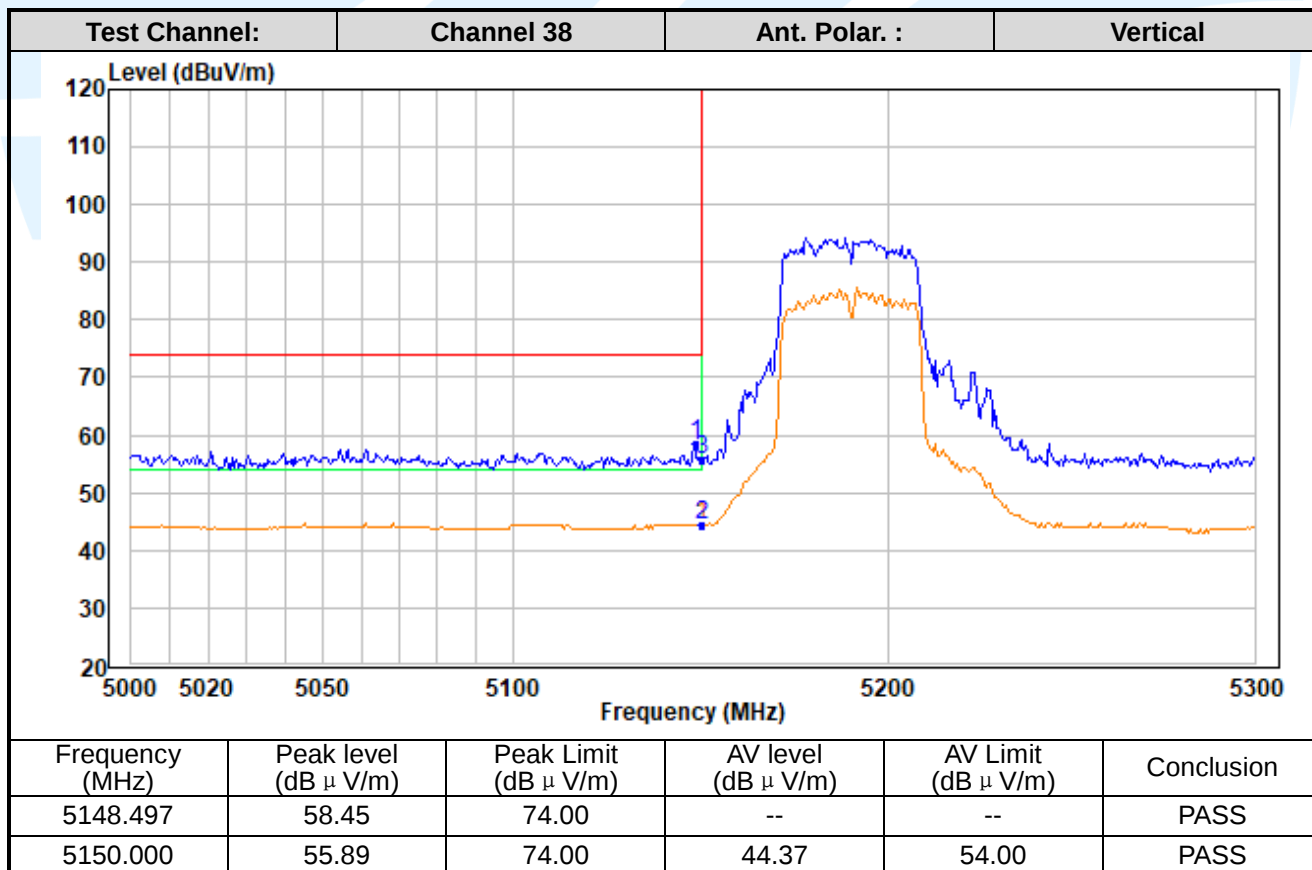
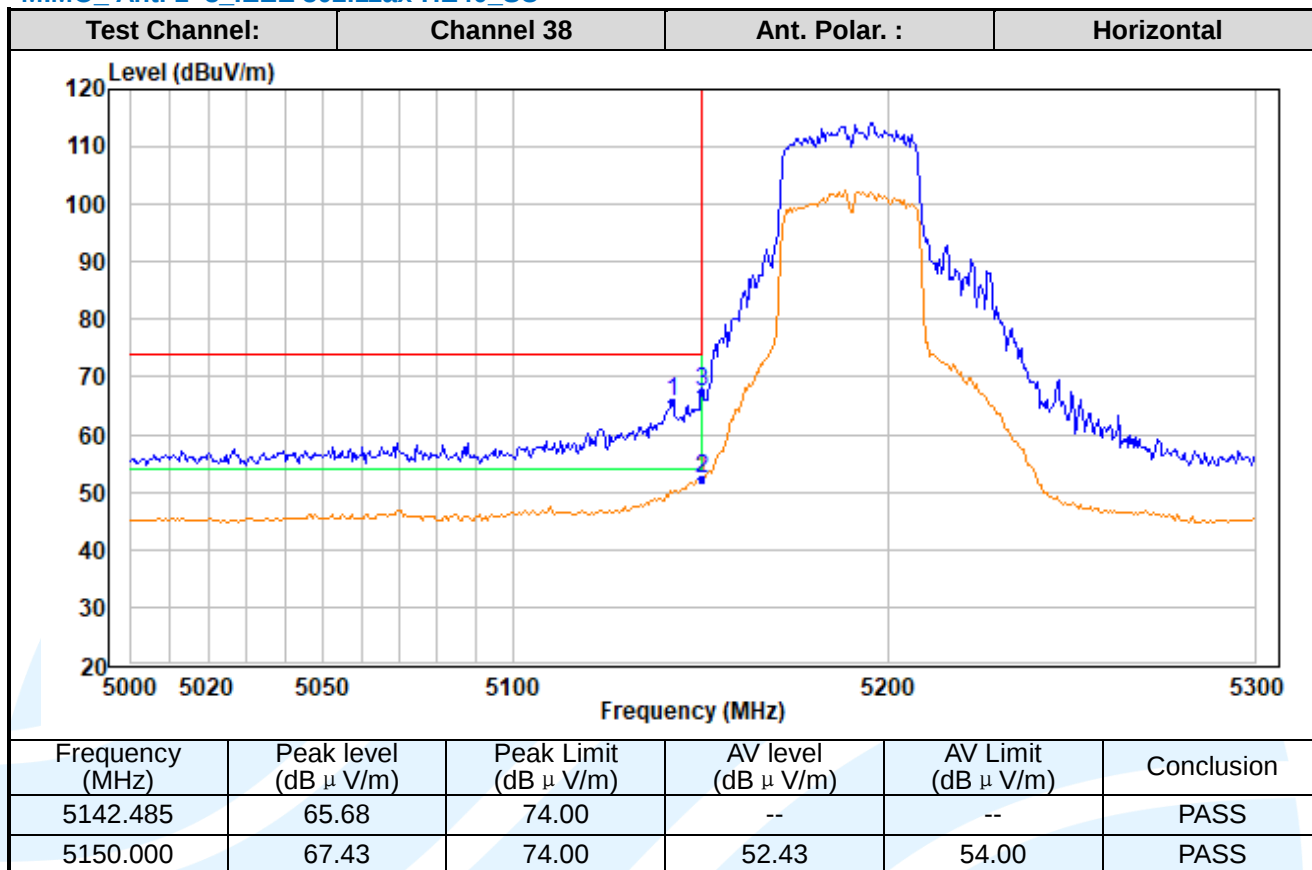
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MIMO_Ant. 1+3_ IEEE 802.11ax-HE40_SU



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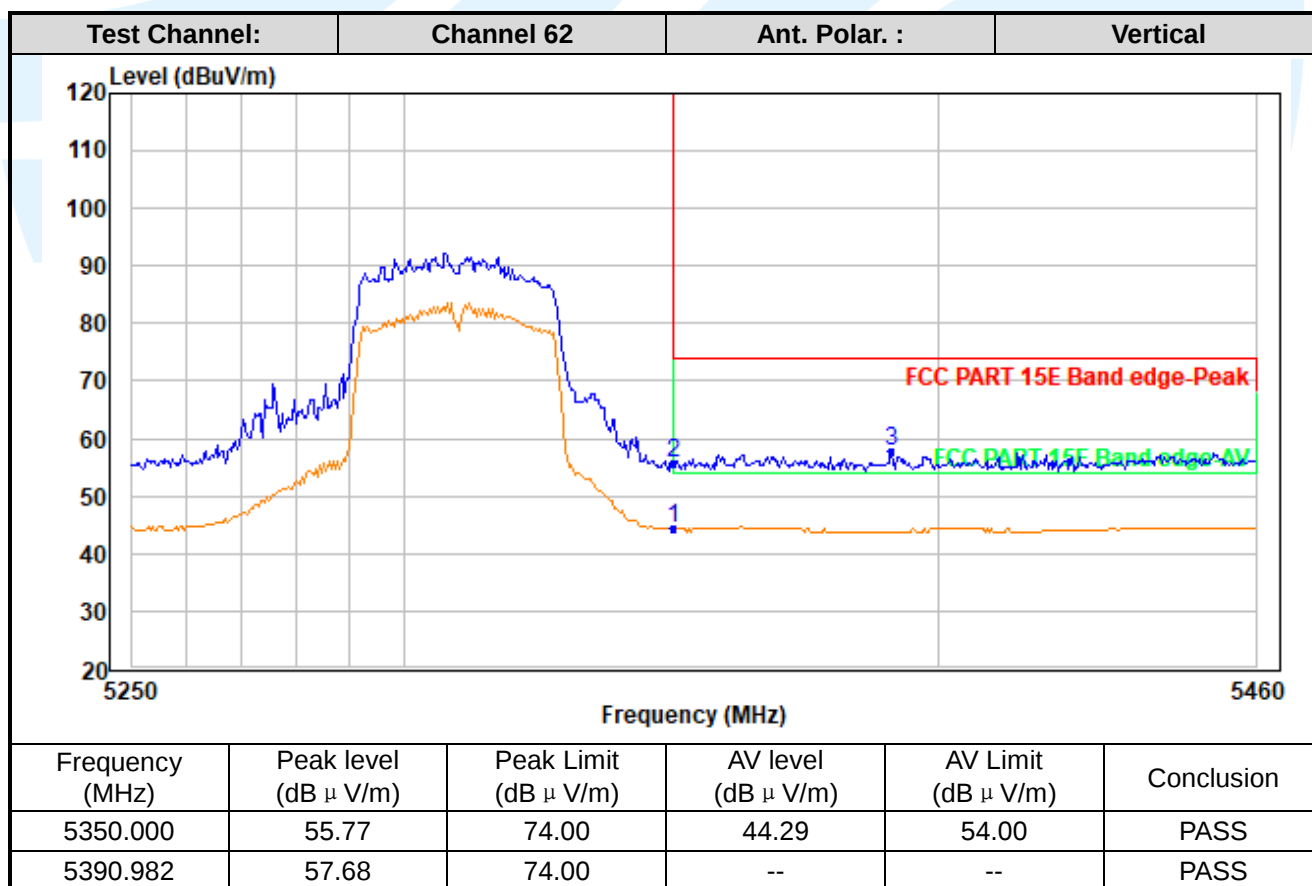
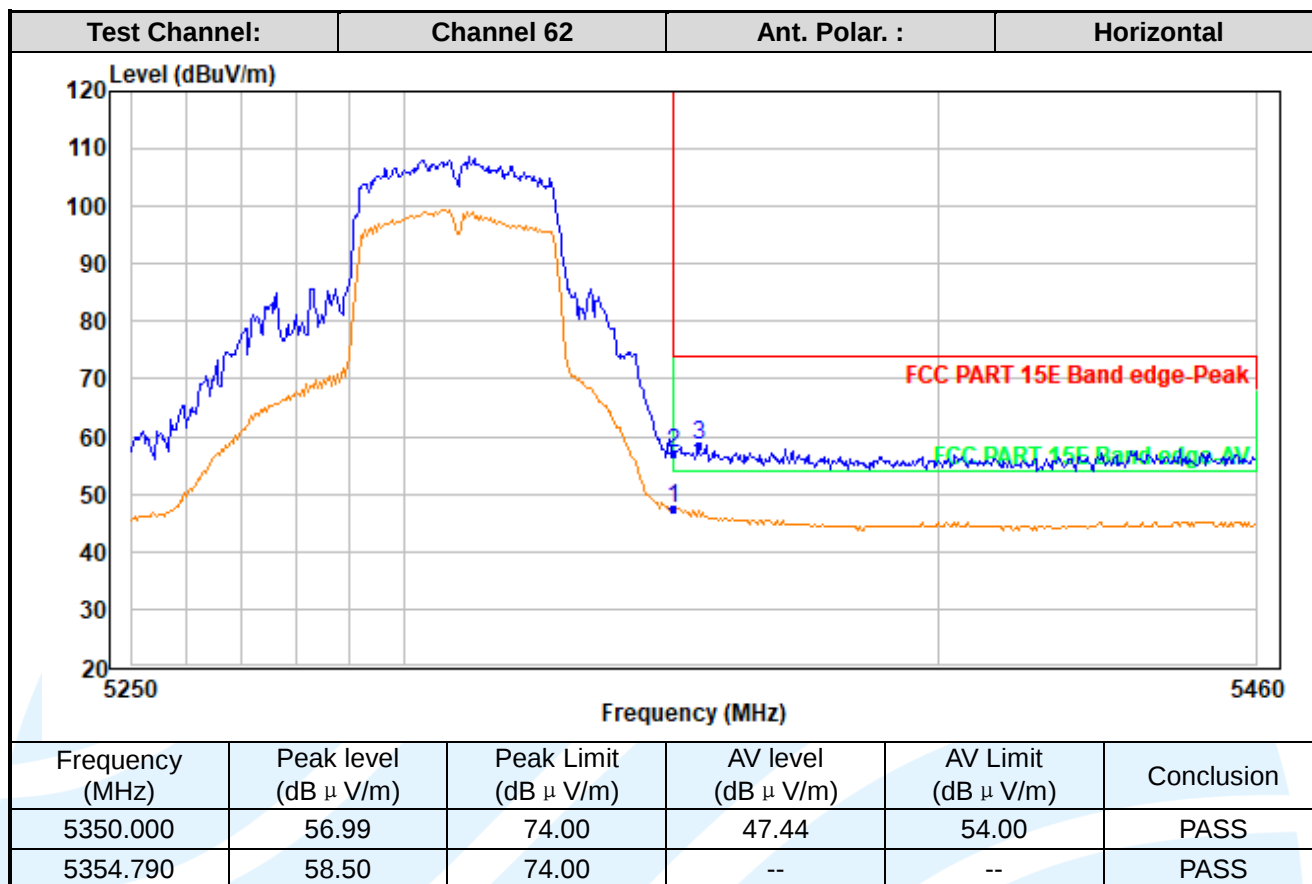
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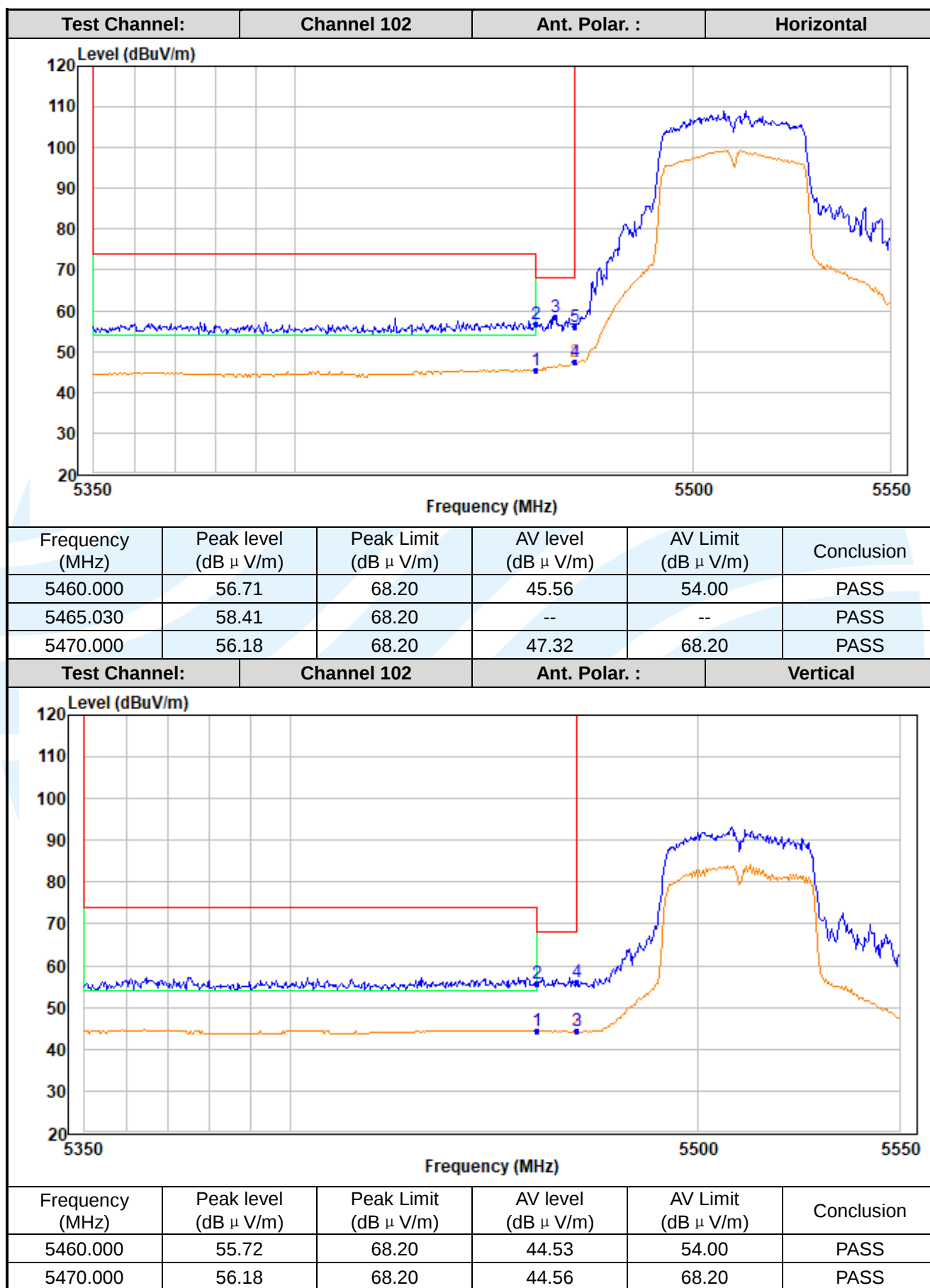
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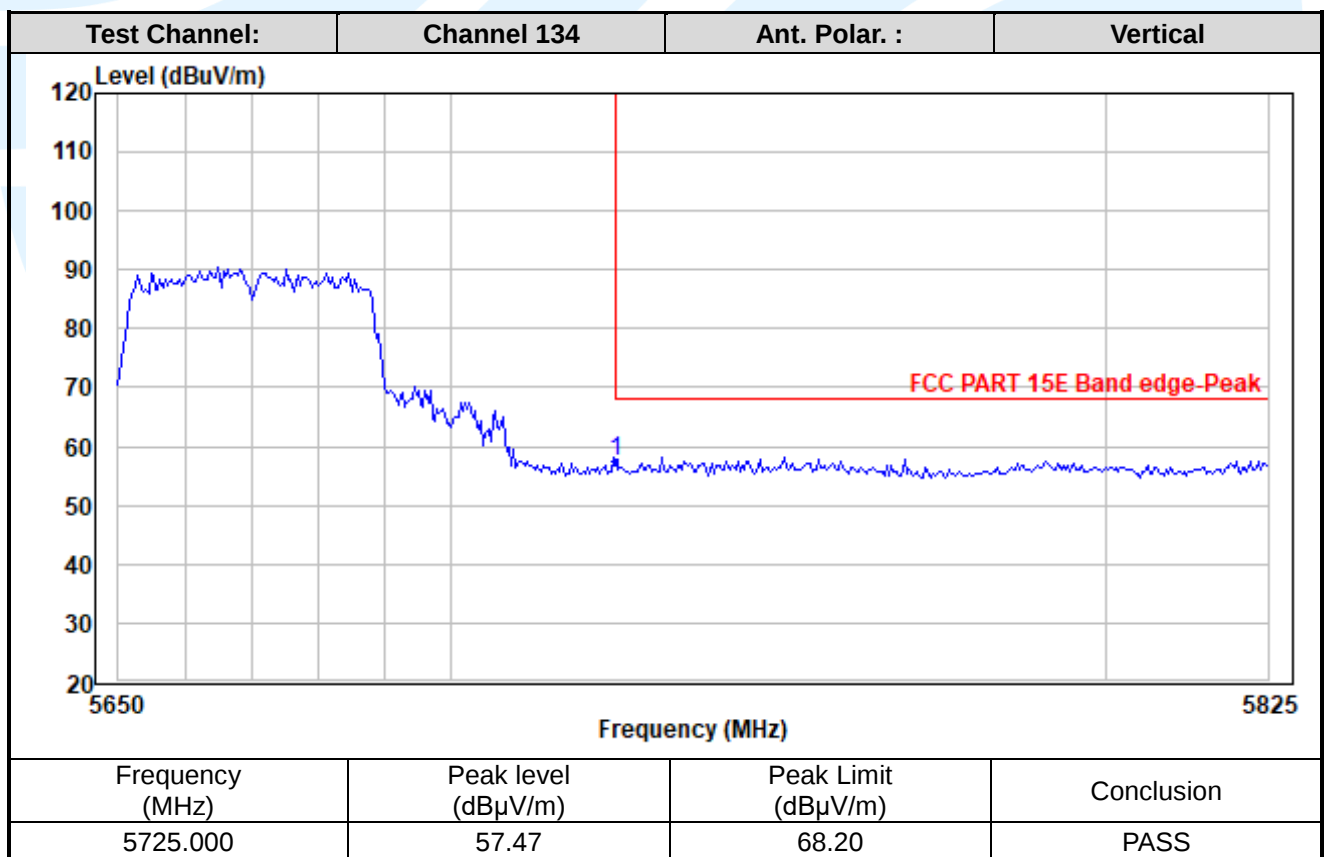
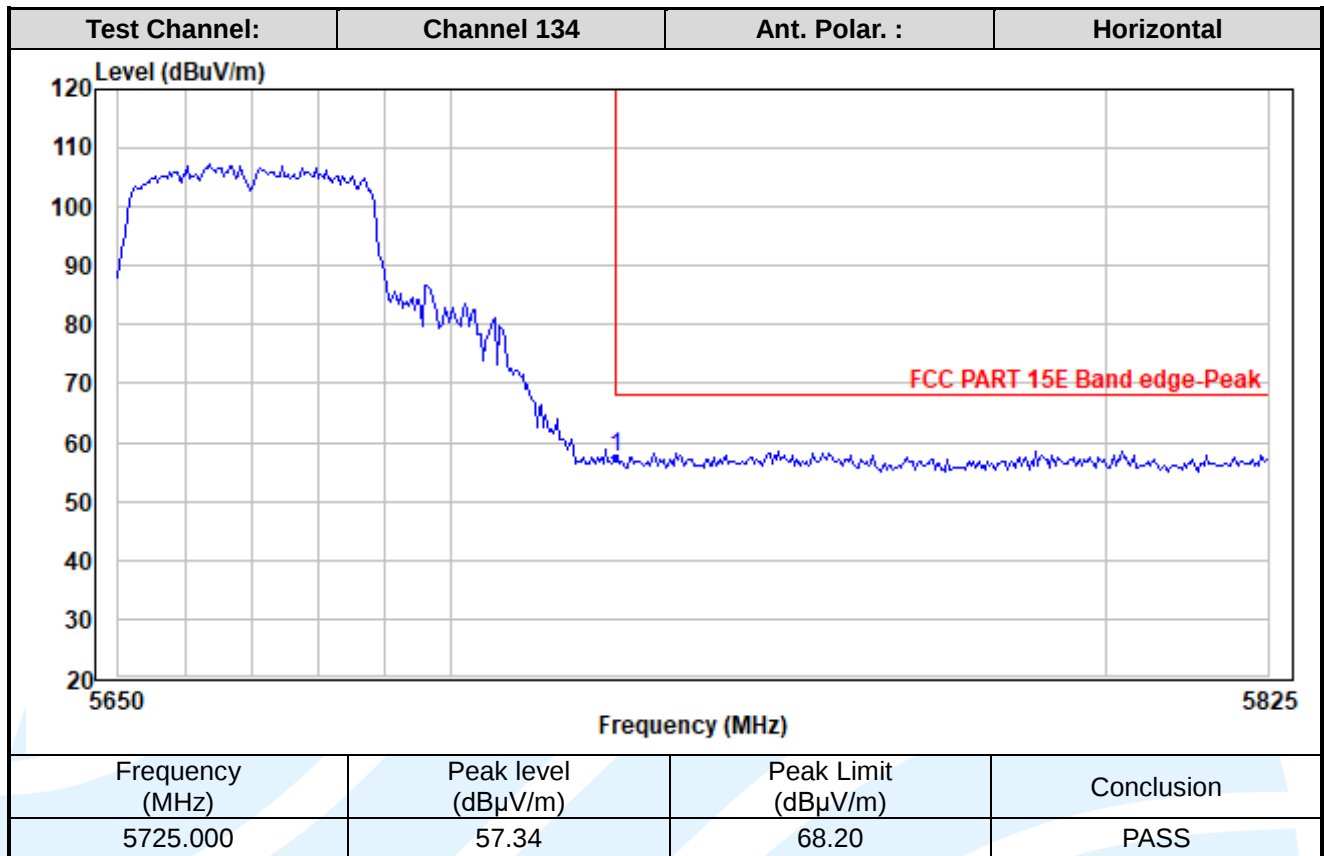
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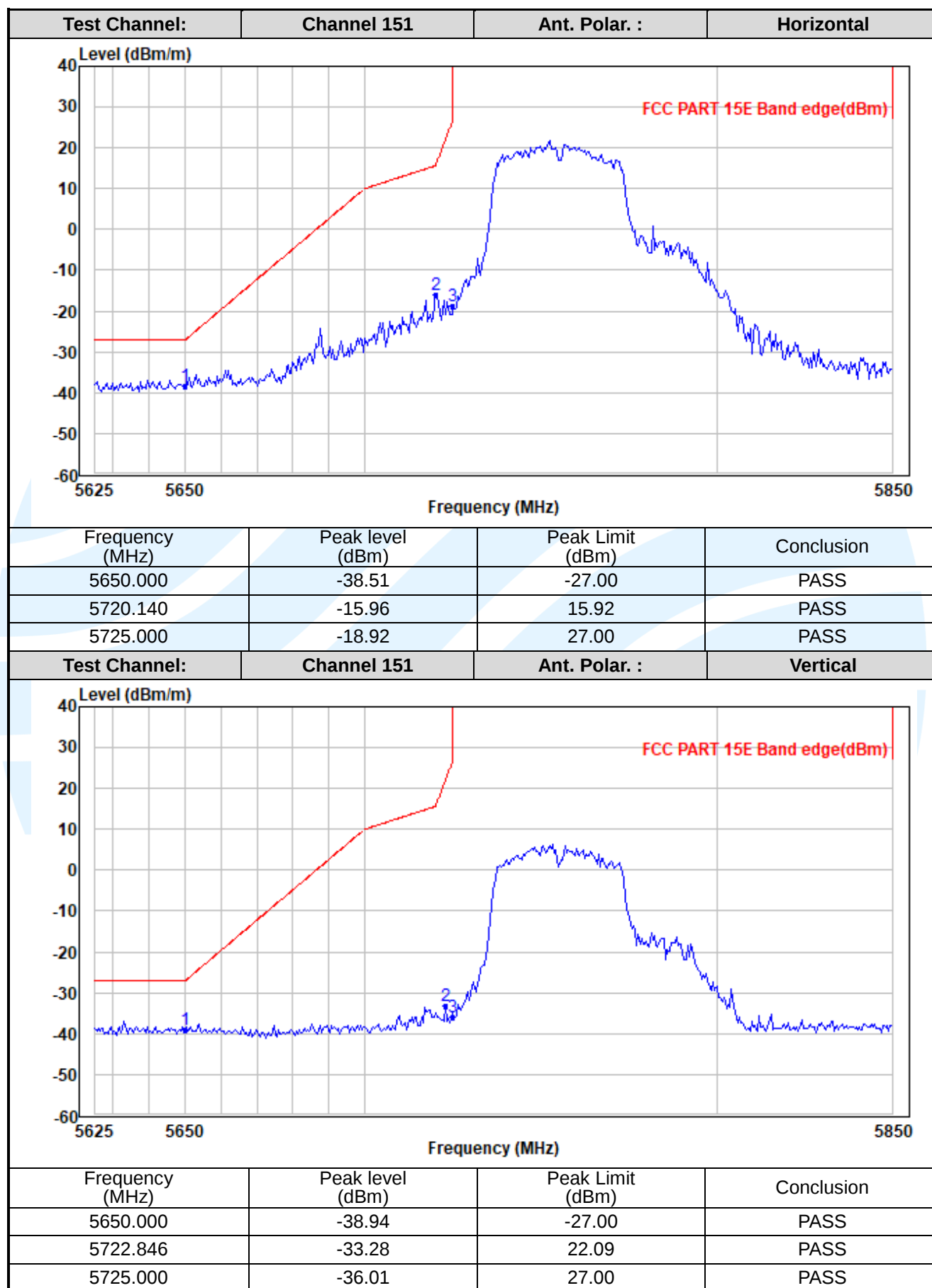
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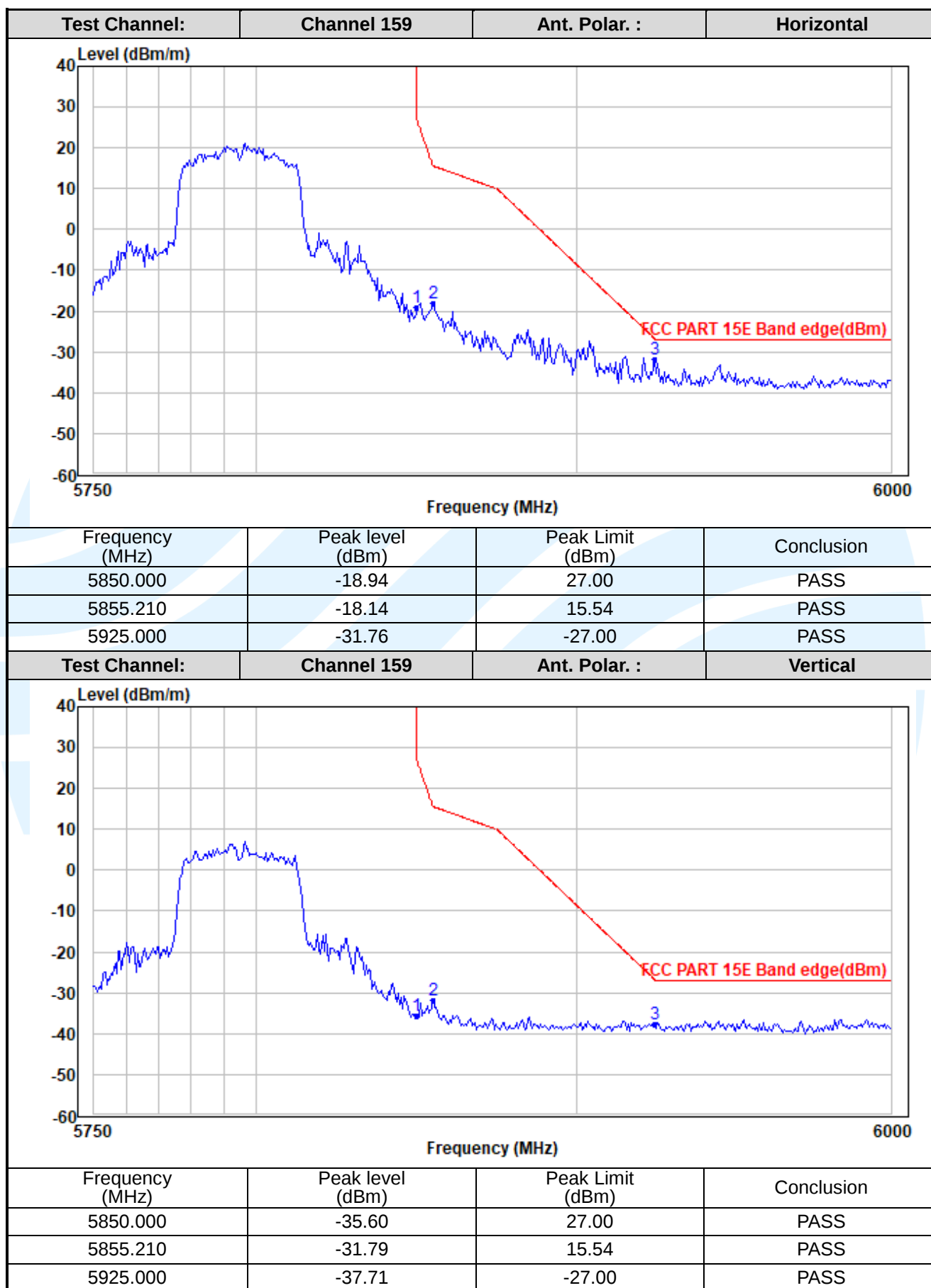
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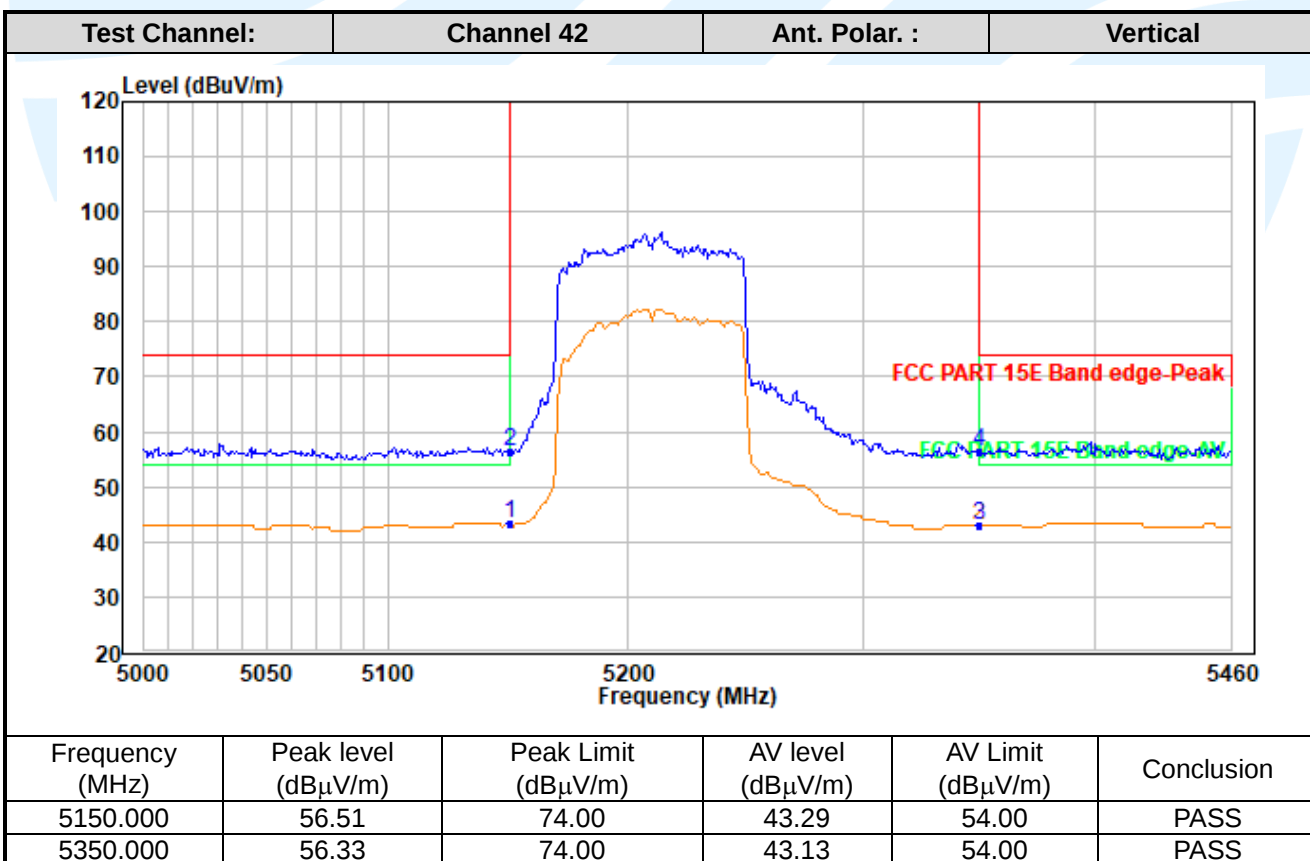
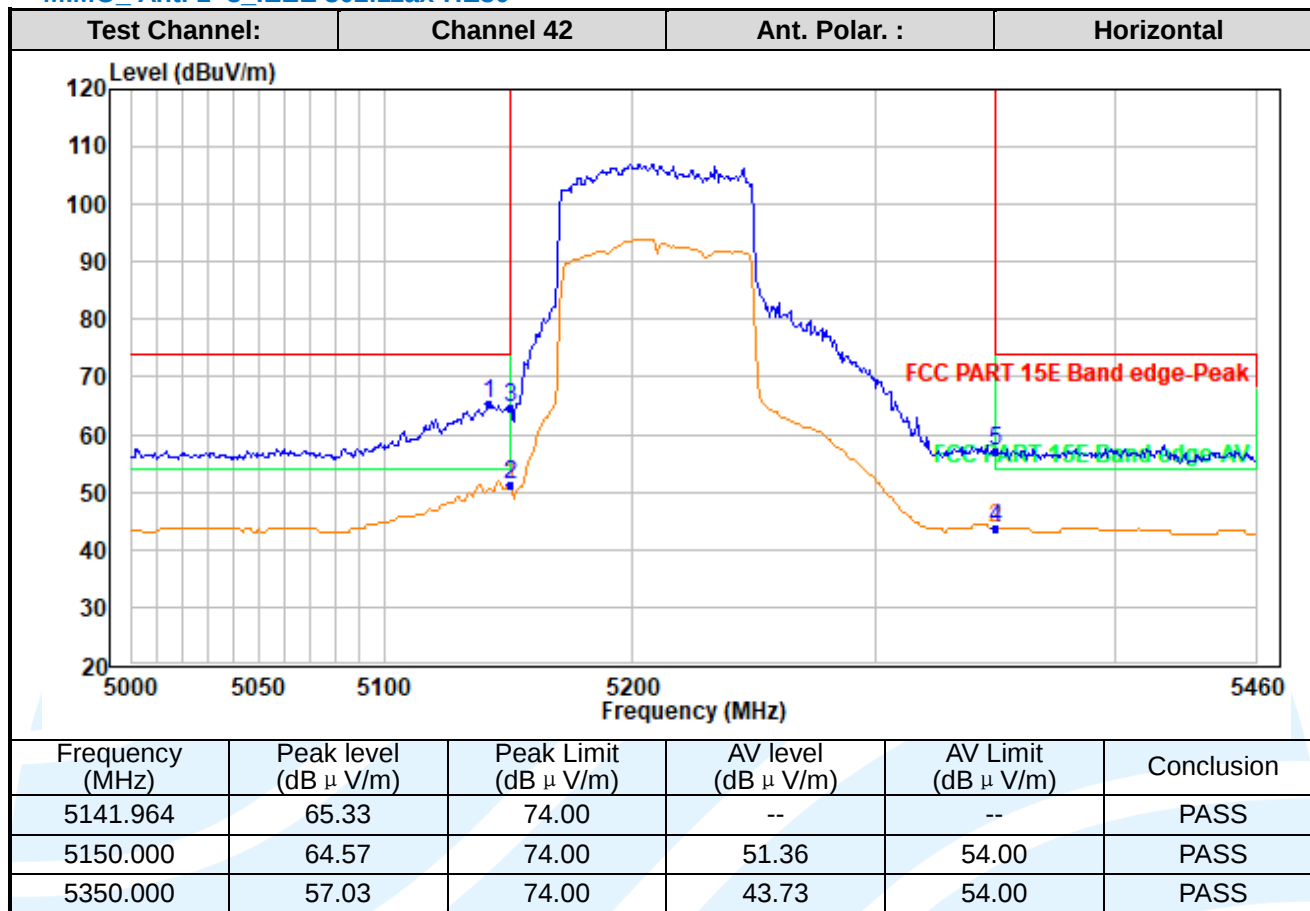
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MIMO_Ant. 1+3_ IEEE 802.11ax-HE80



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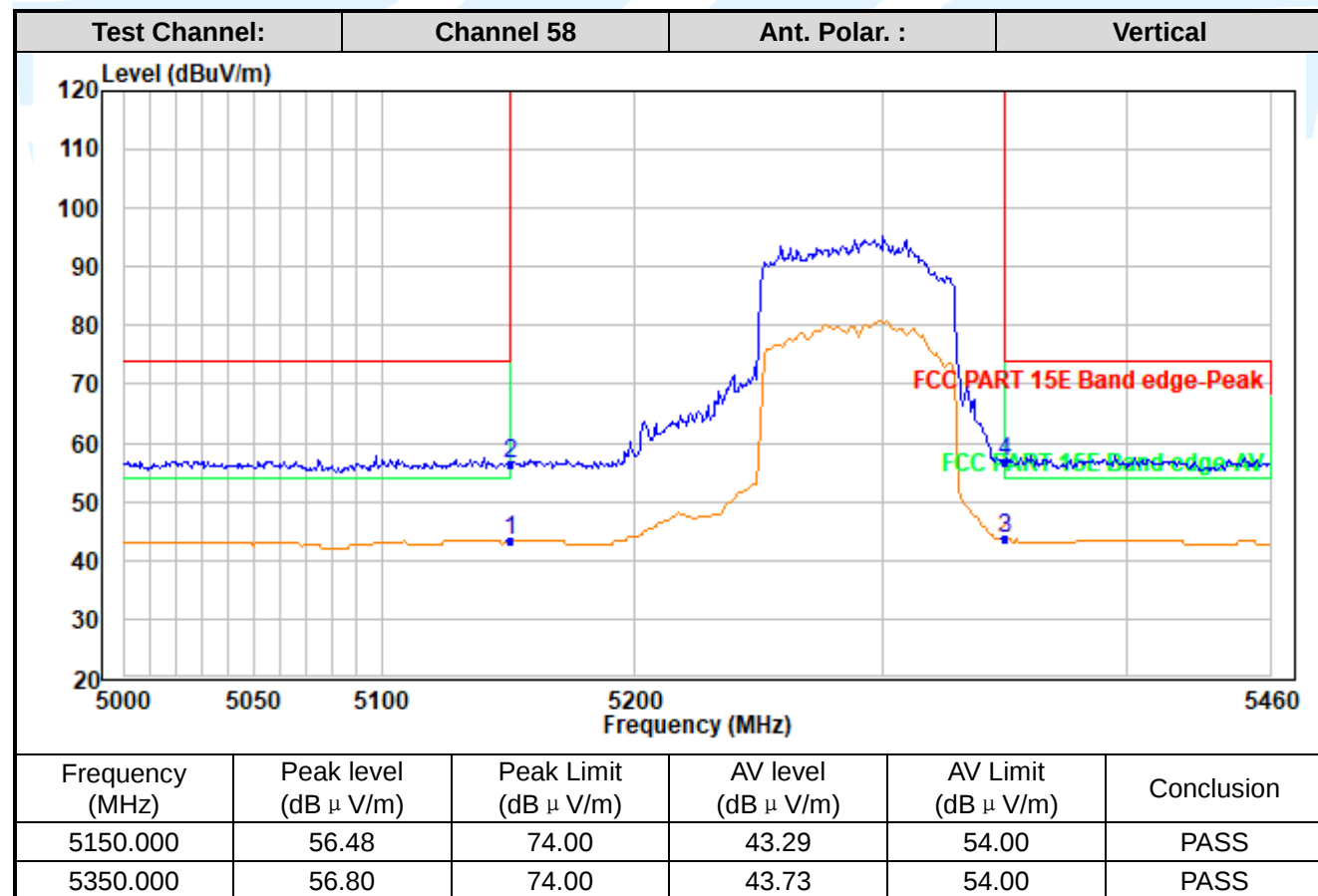
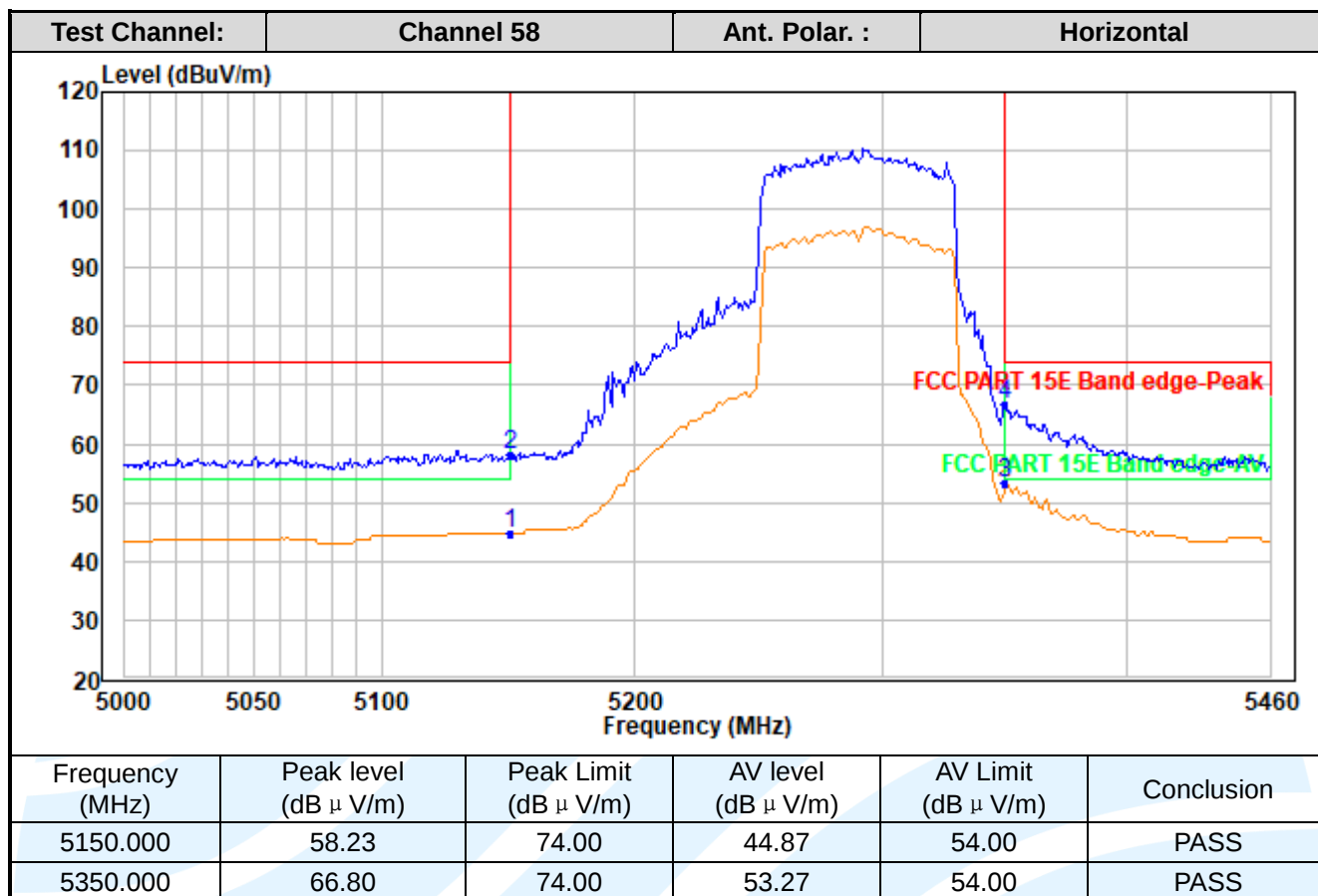
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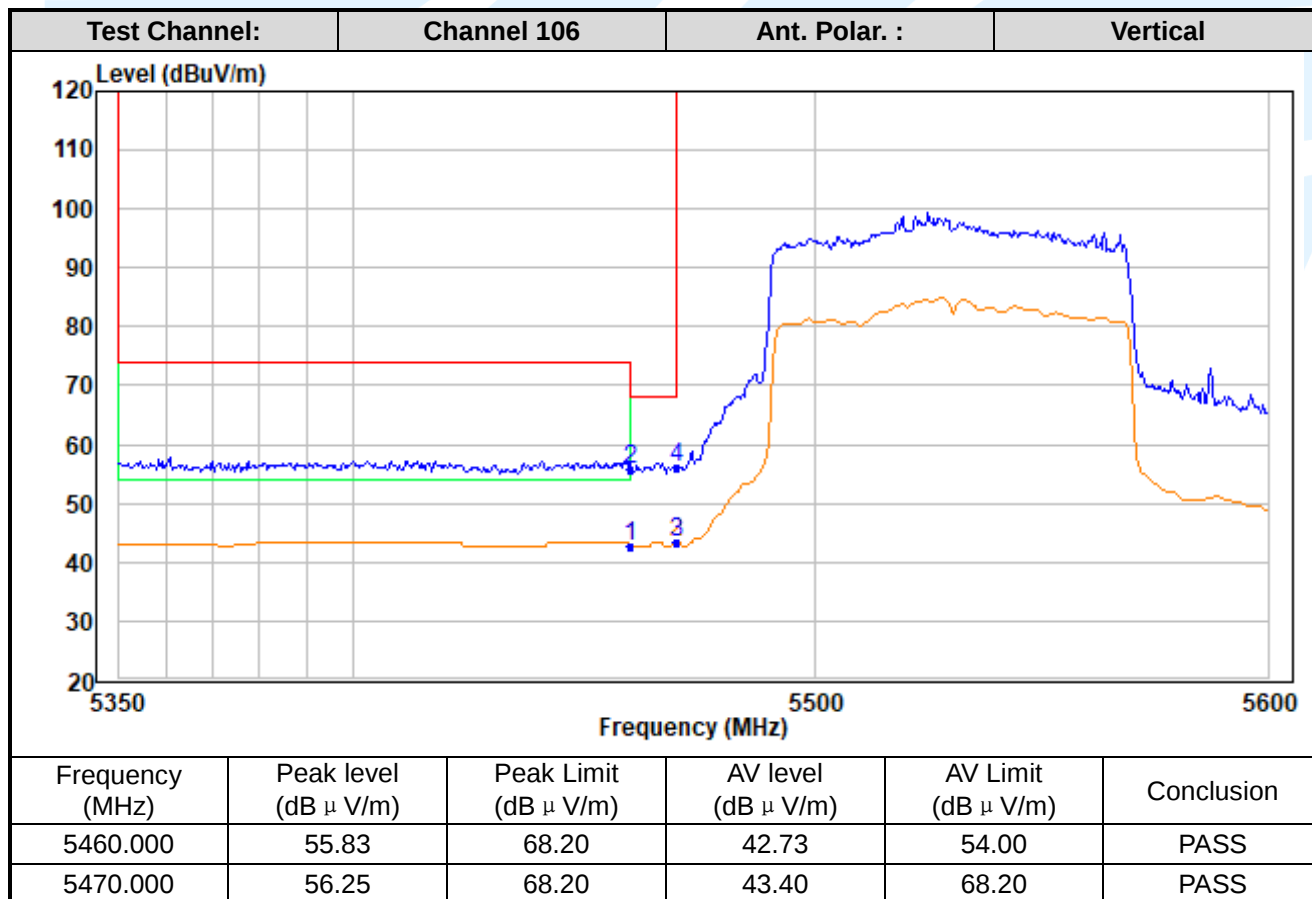
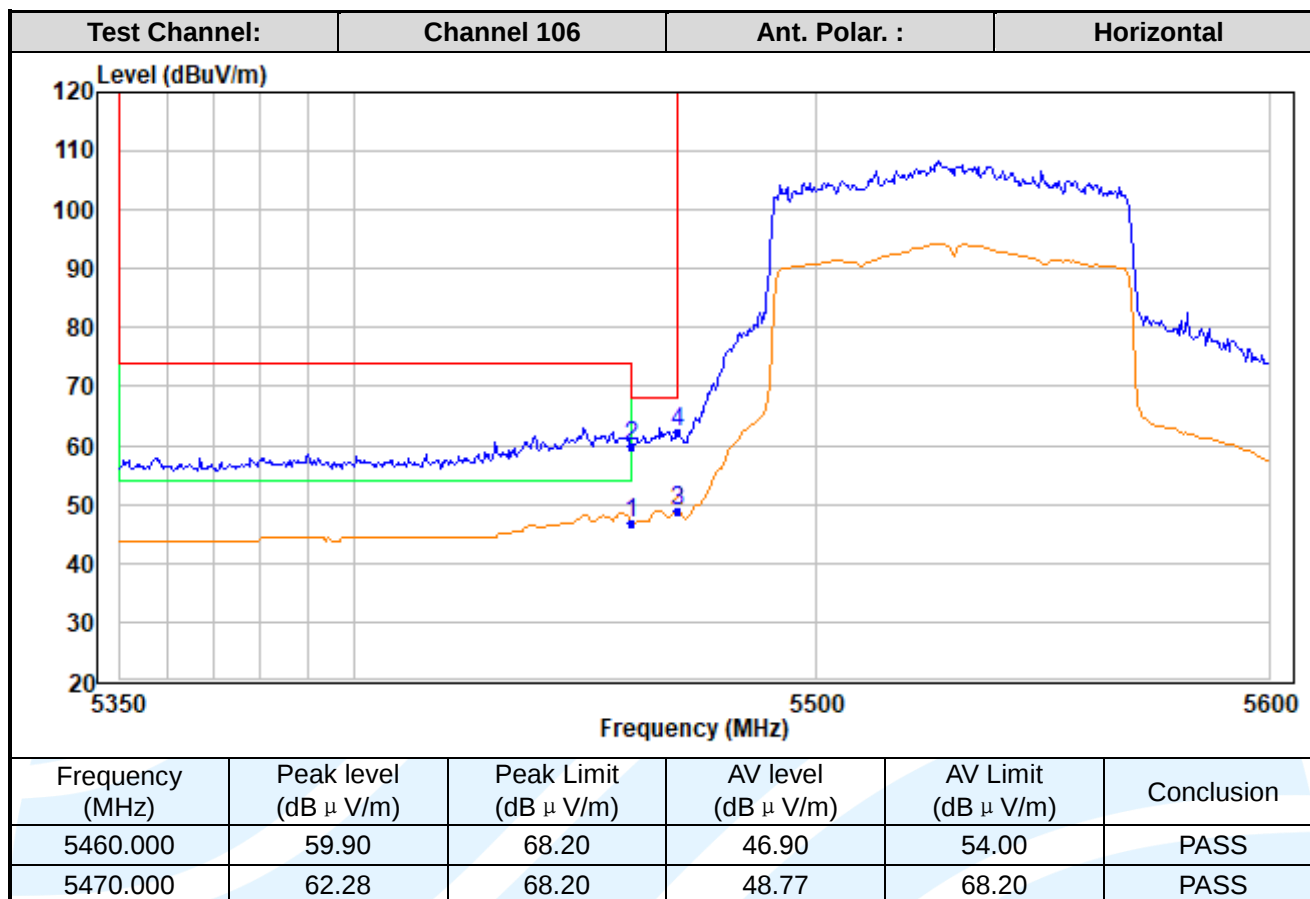
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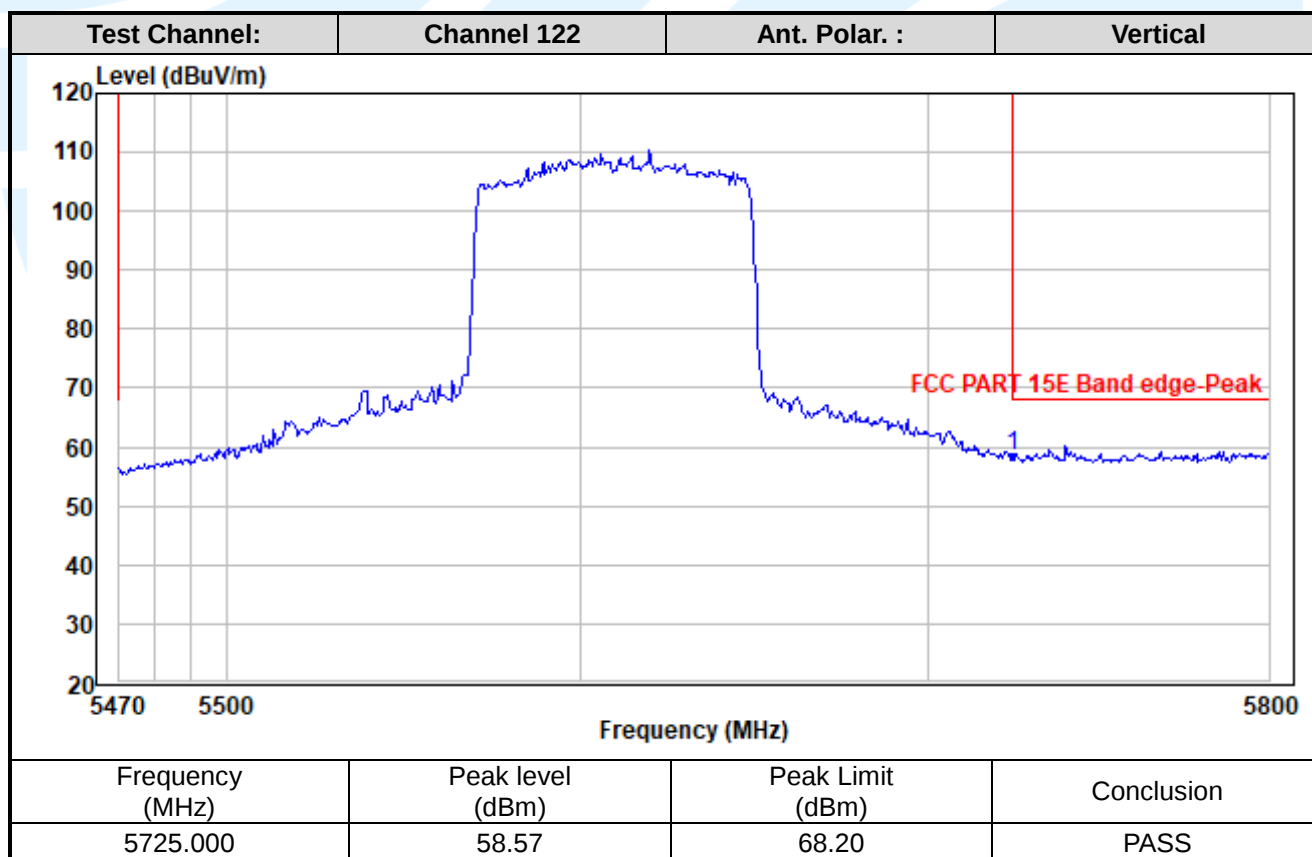
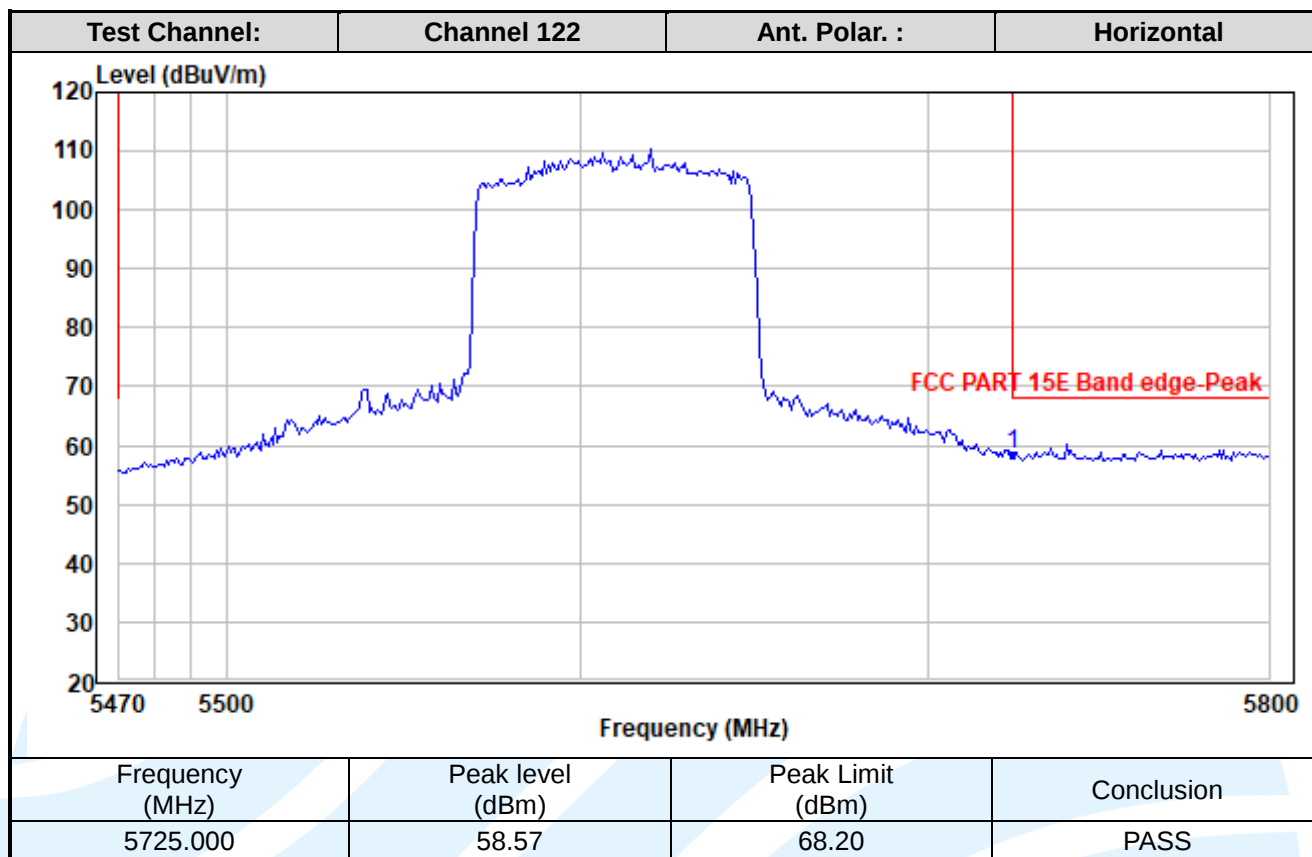
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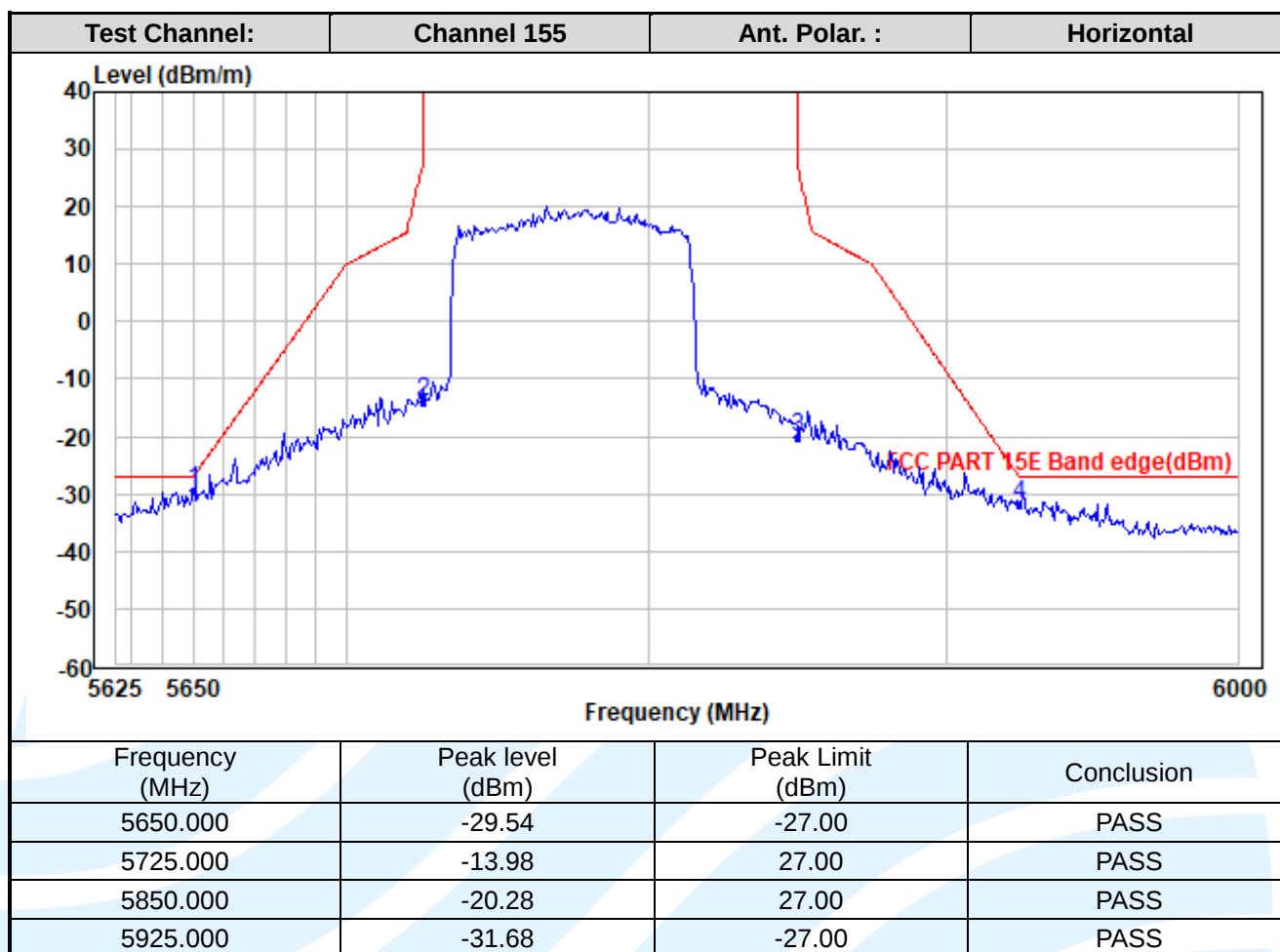
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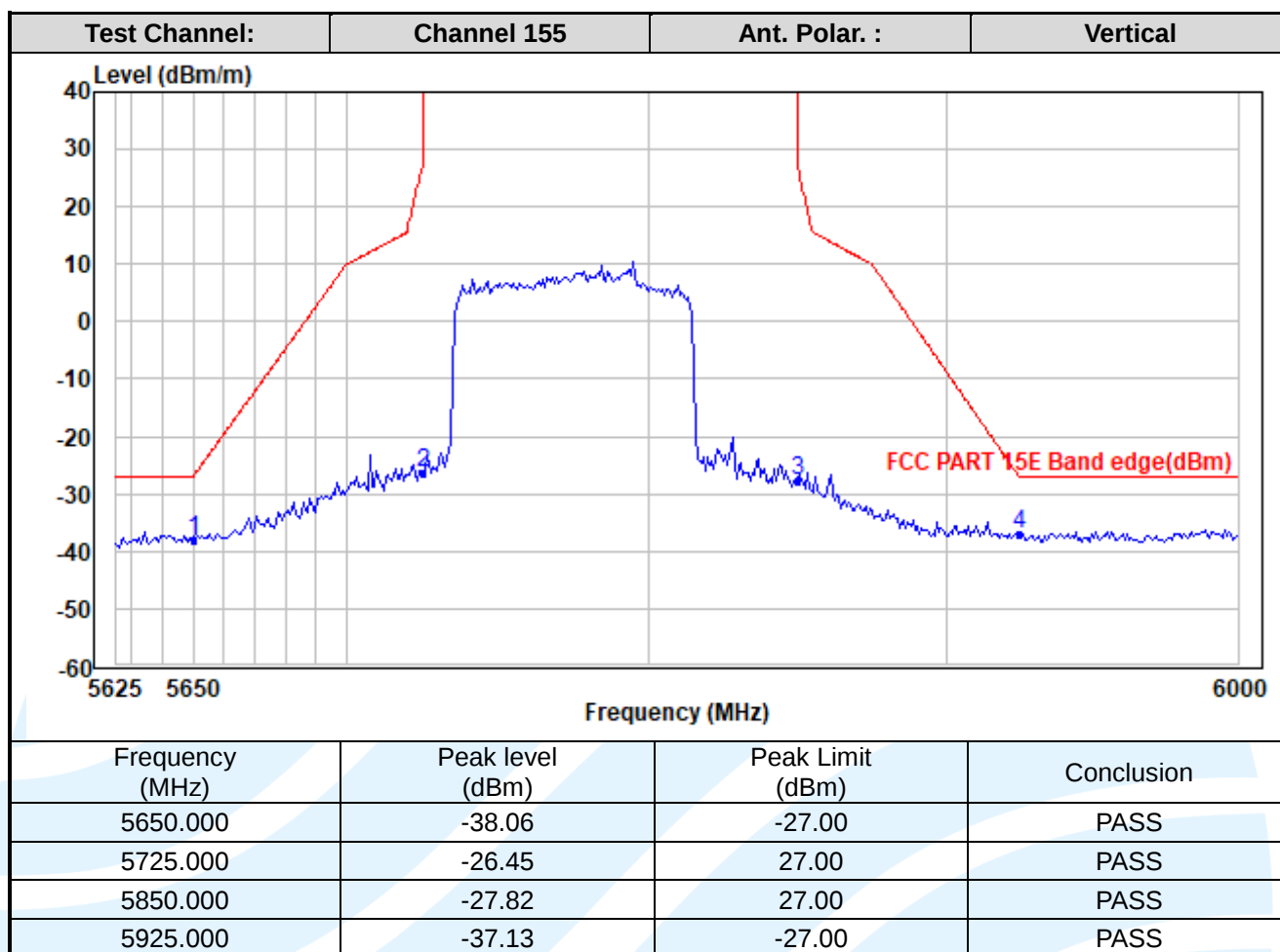
Fax: +86-755-28230886

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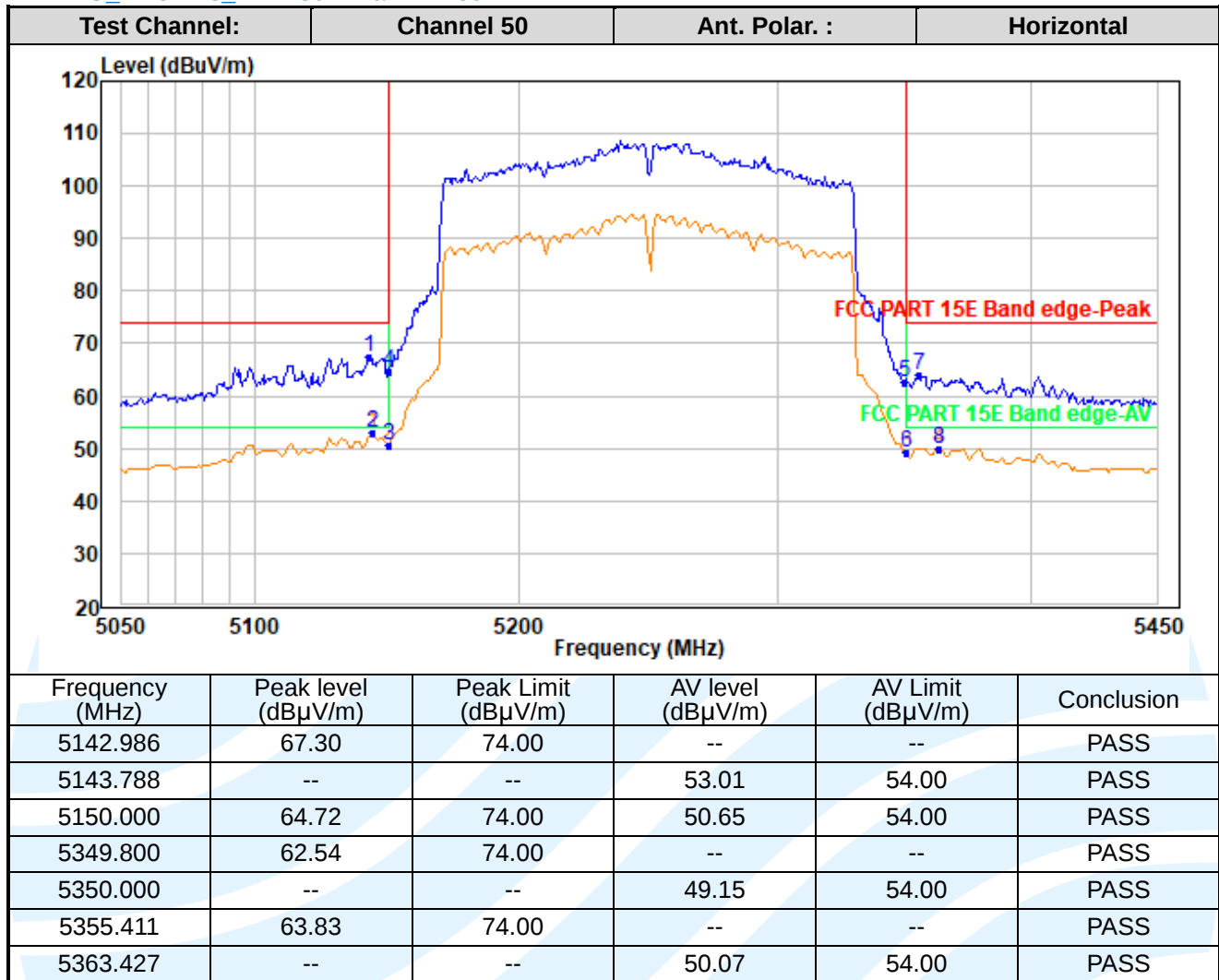
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MIMO_Ant. 1+3_ IEEE 802.11ax-HE160



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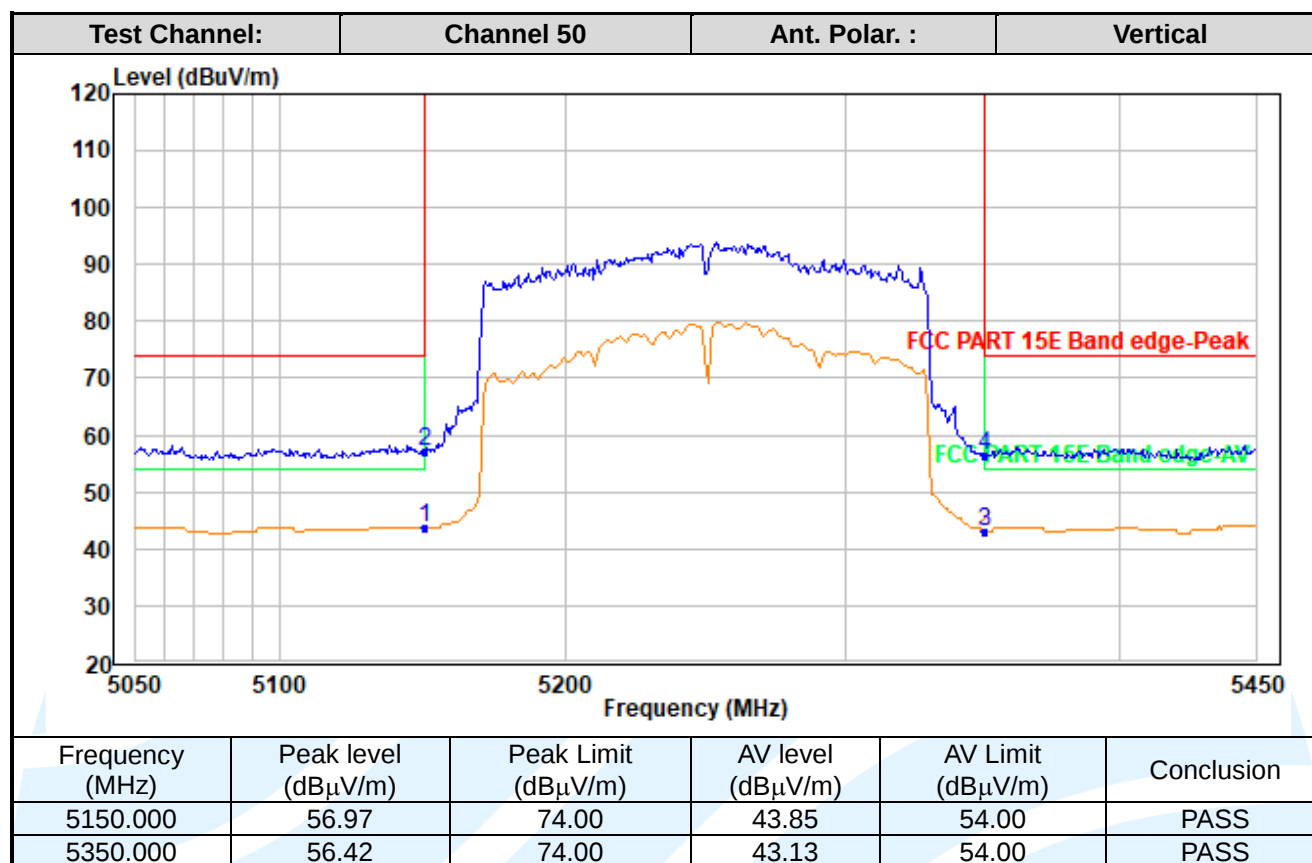
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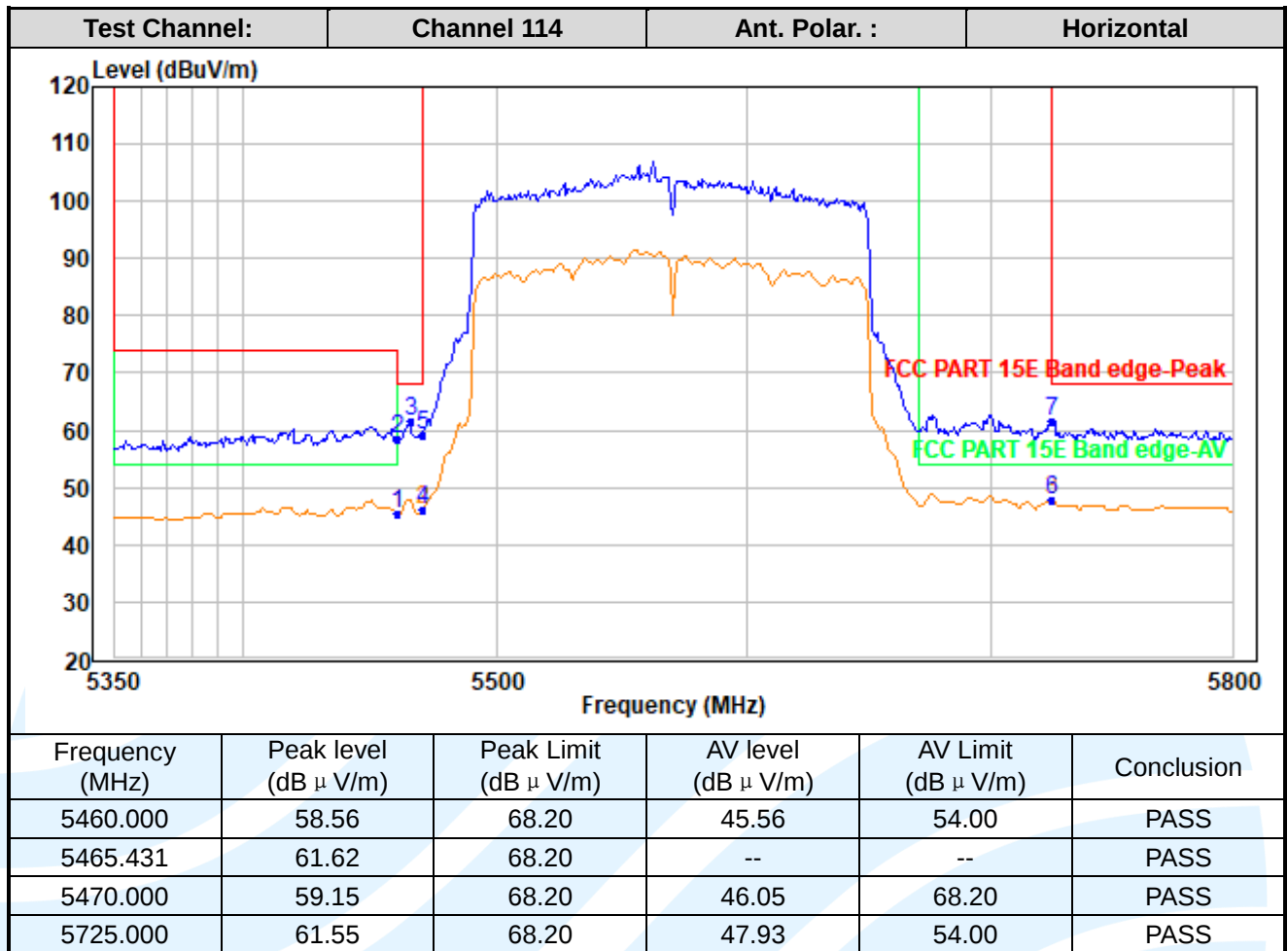
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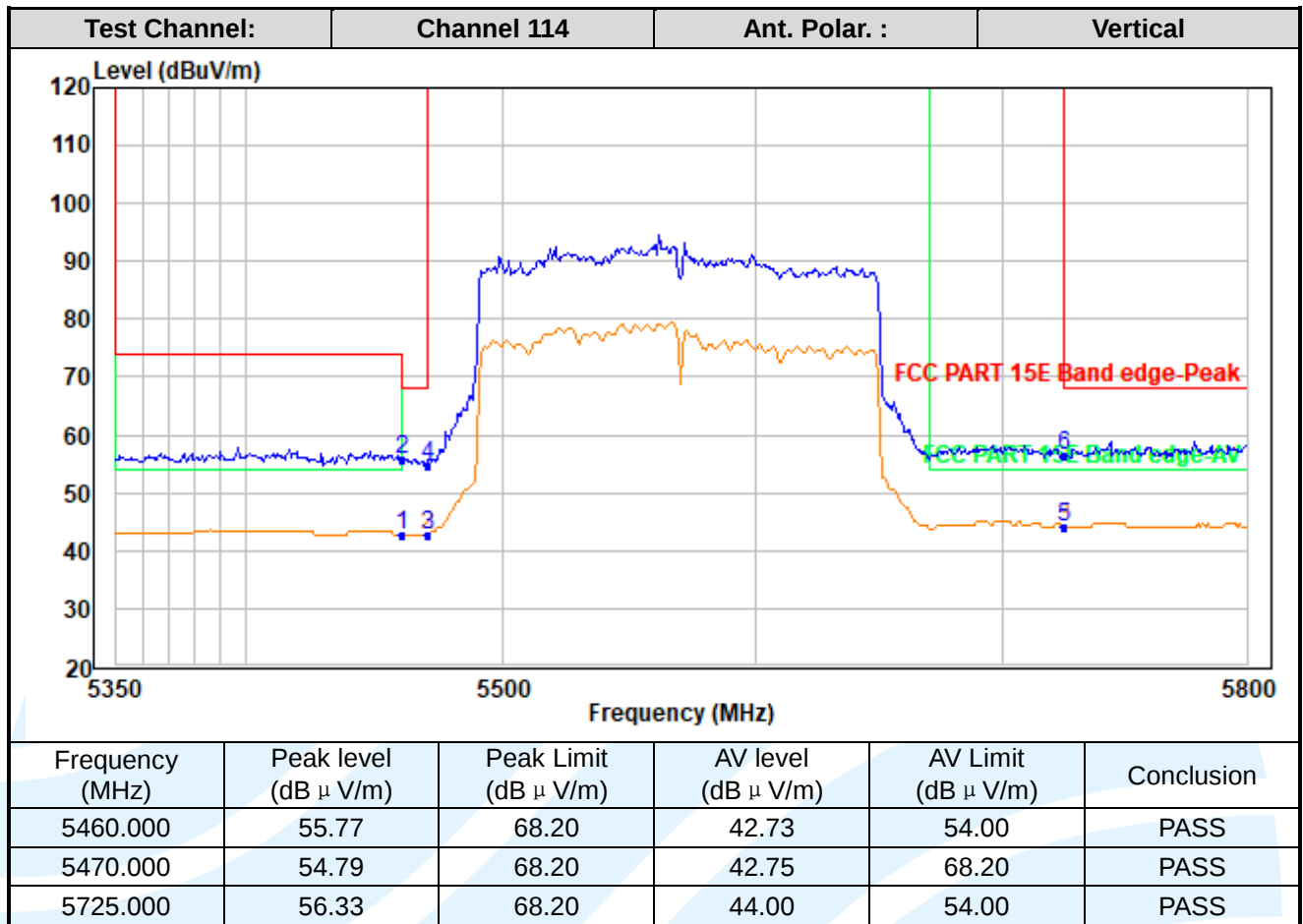
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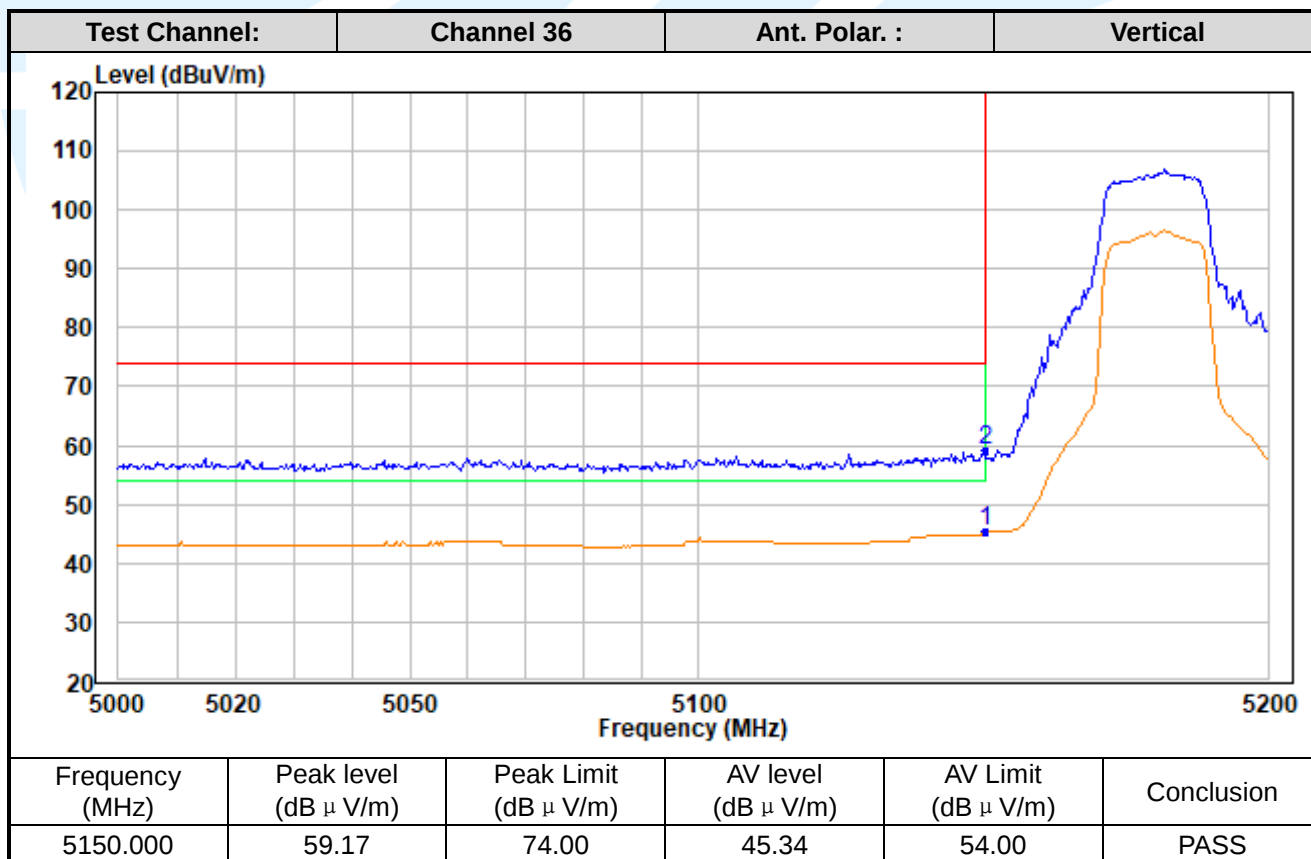
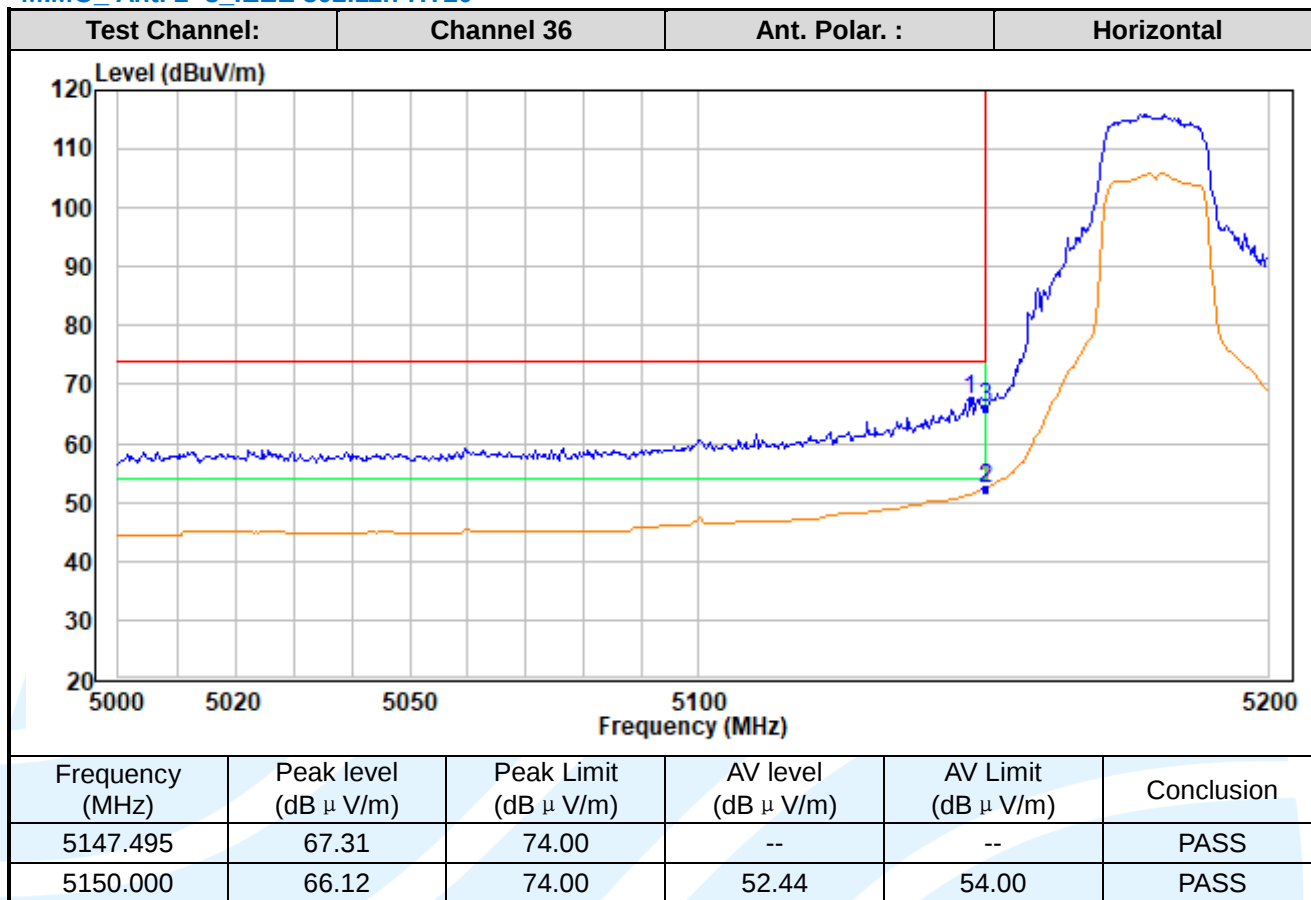
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MIMO_Ant. 2+3_ IEEE 802.11n-HT20



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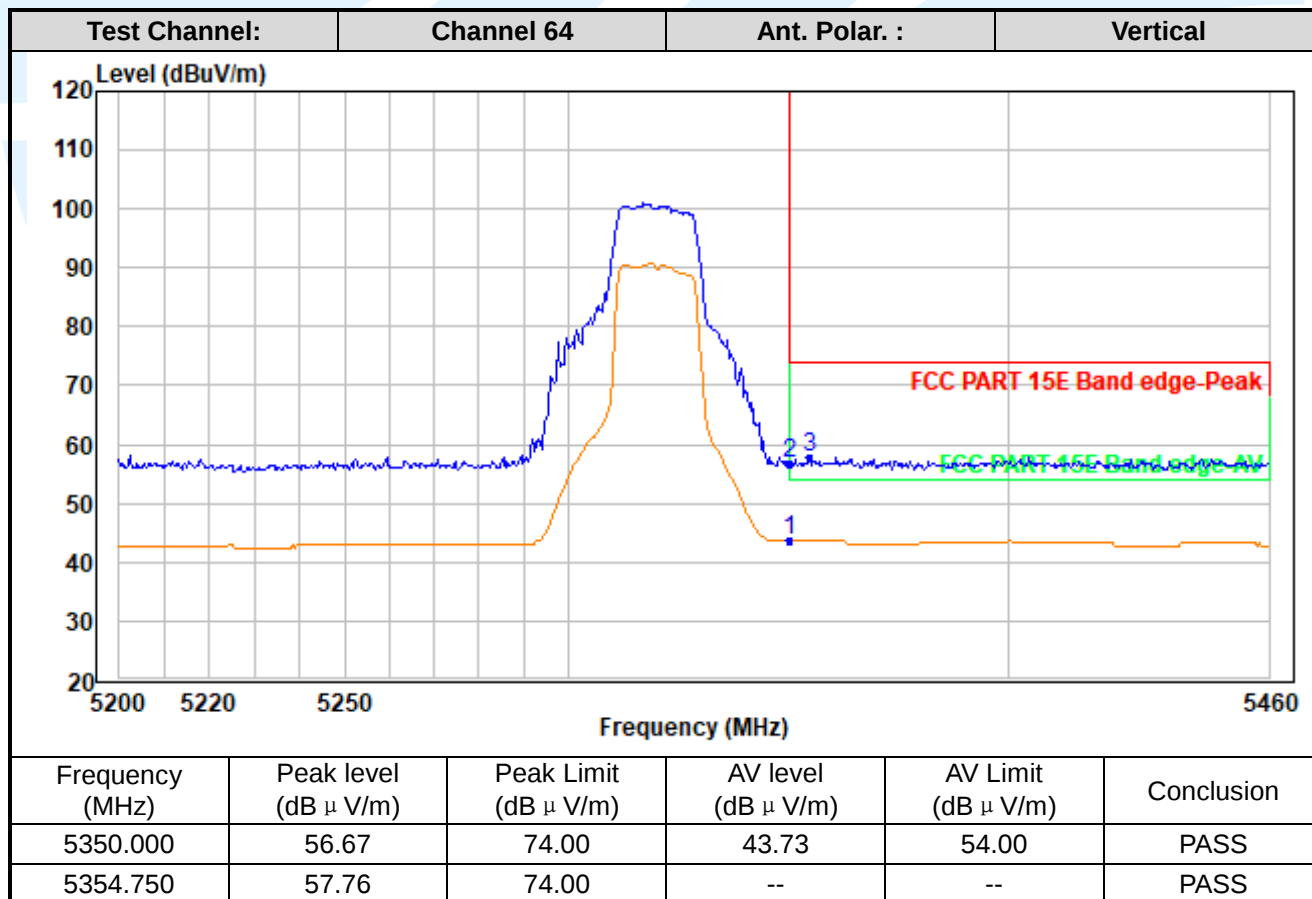
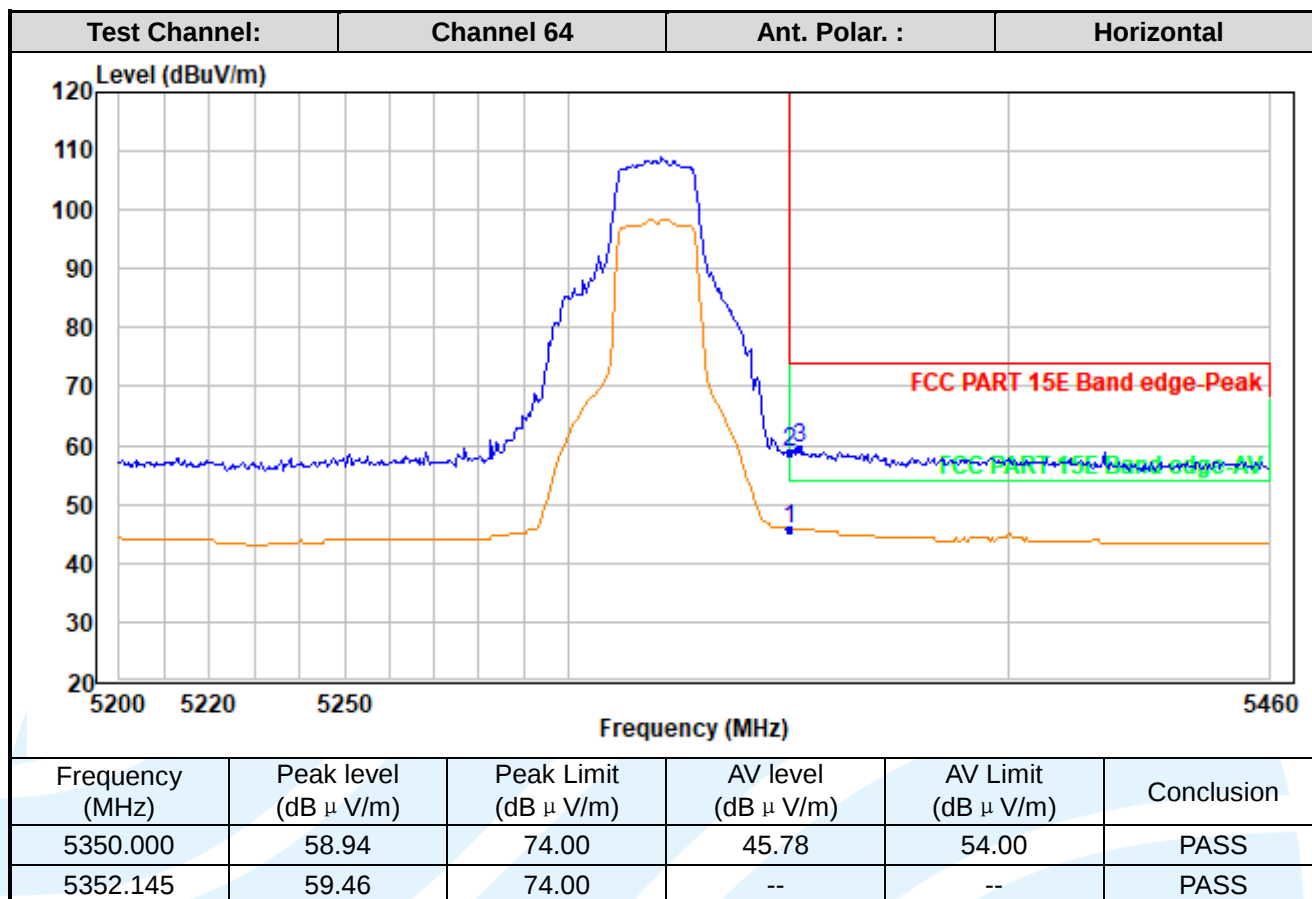
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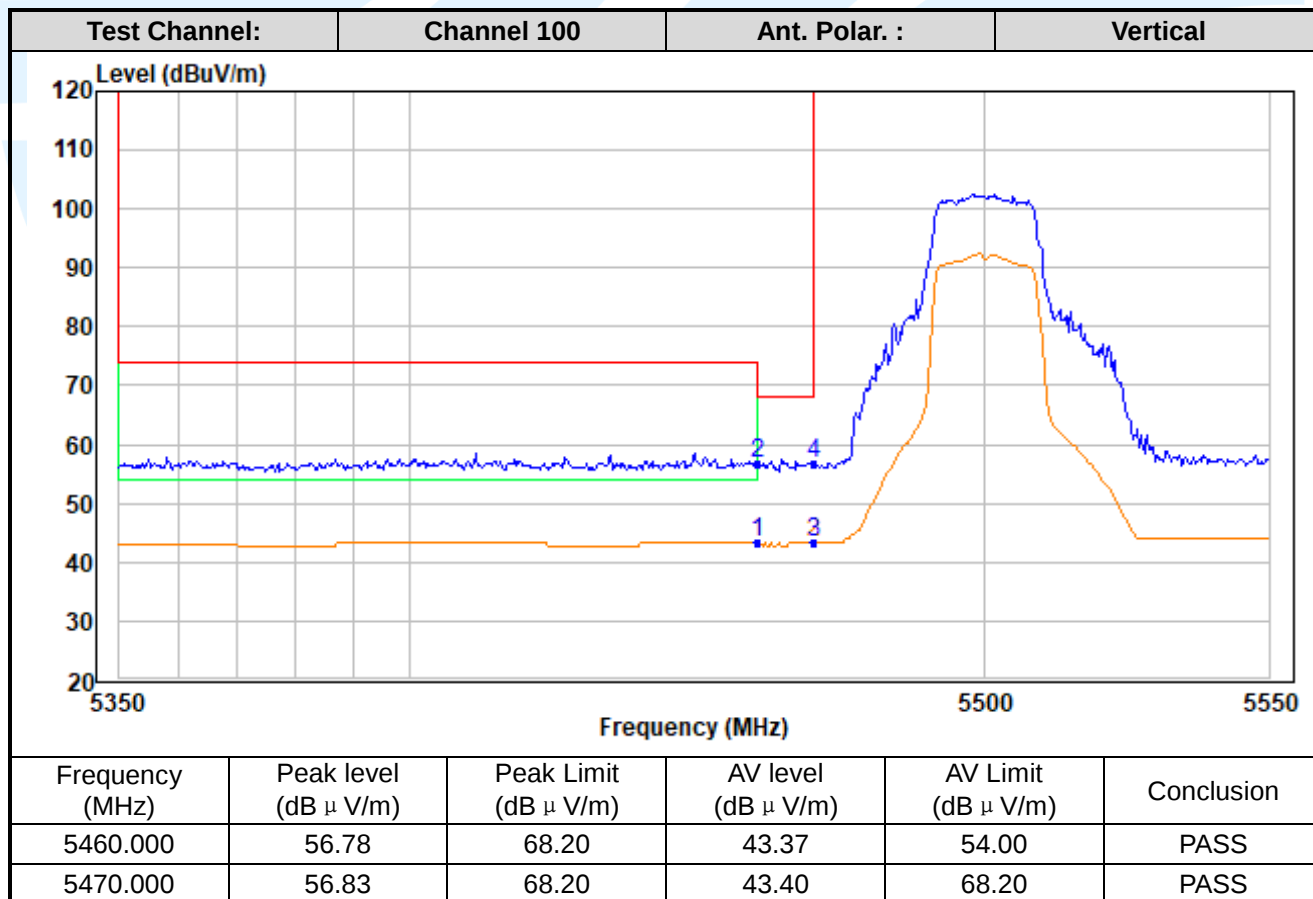
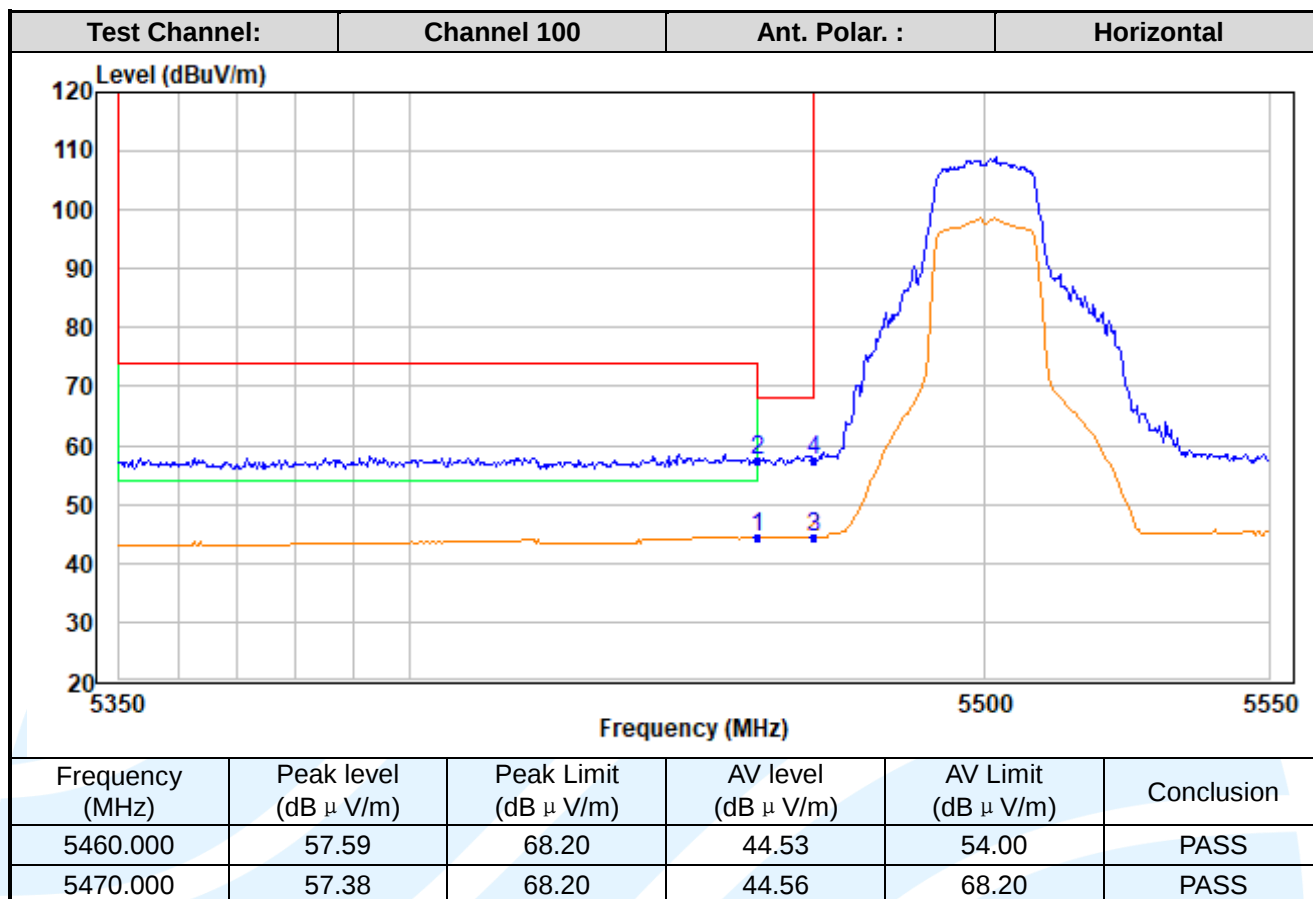
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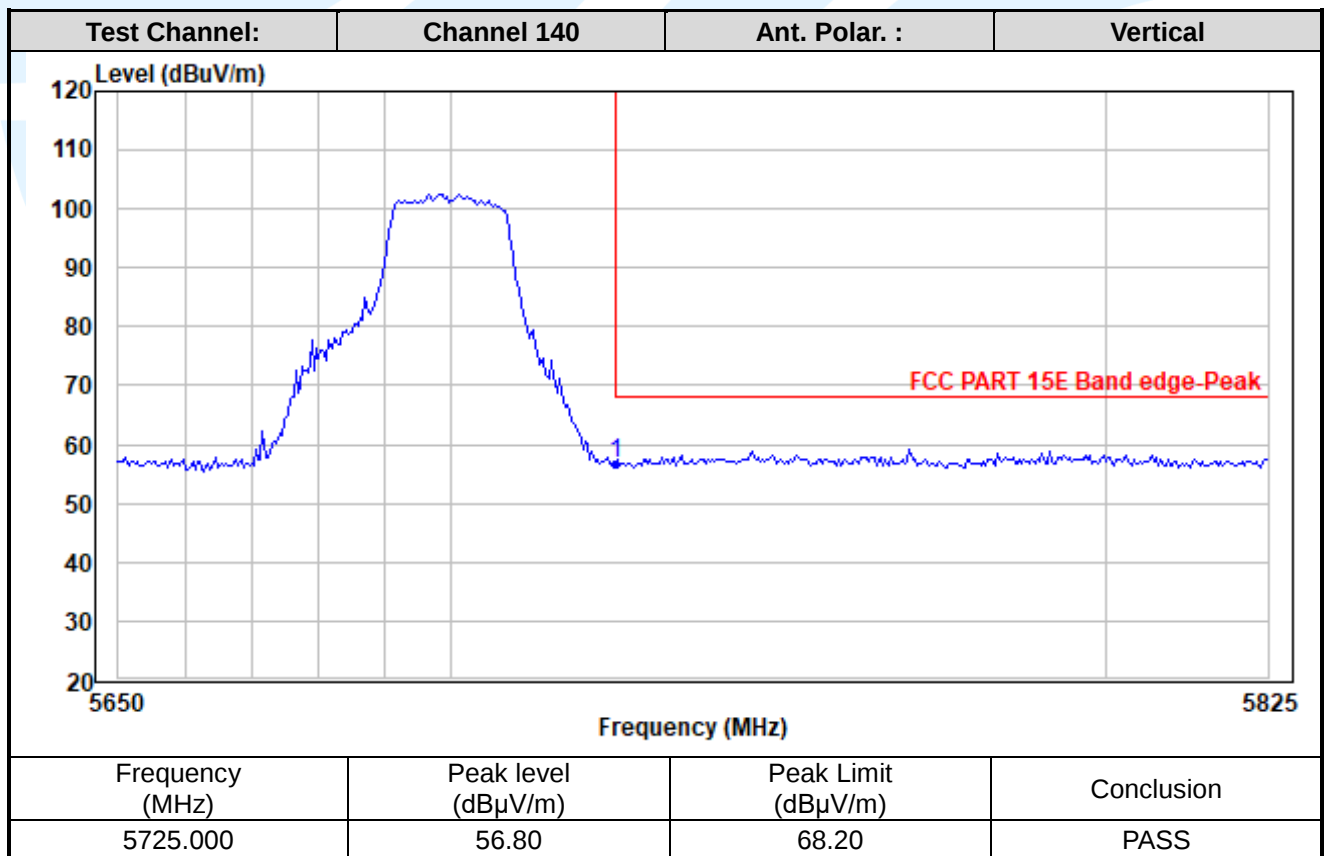
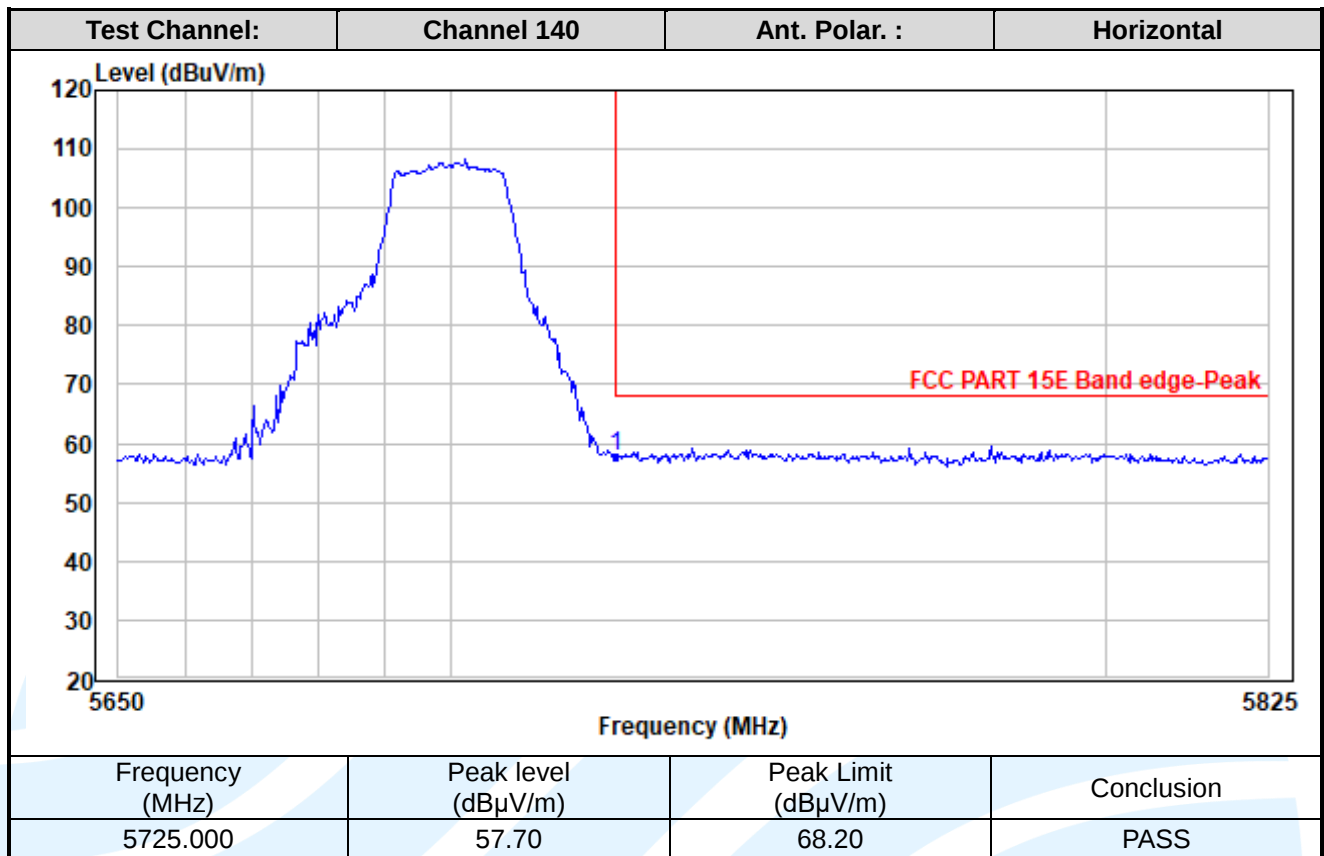
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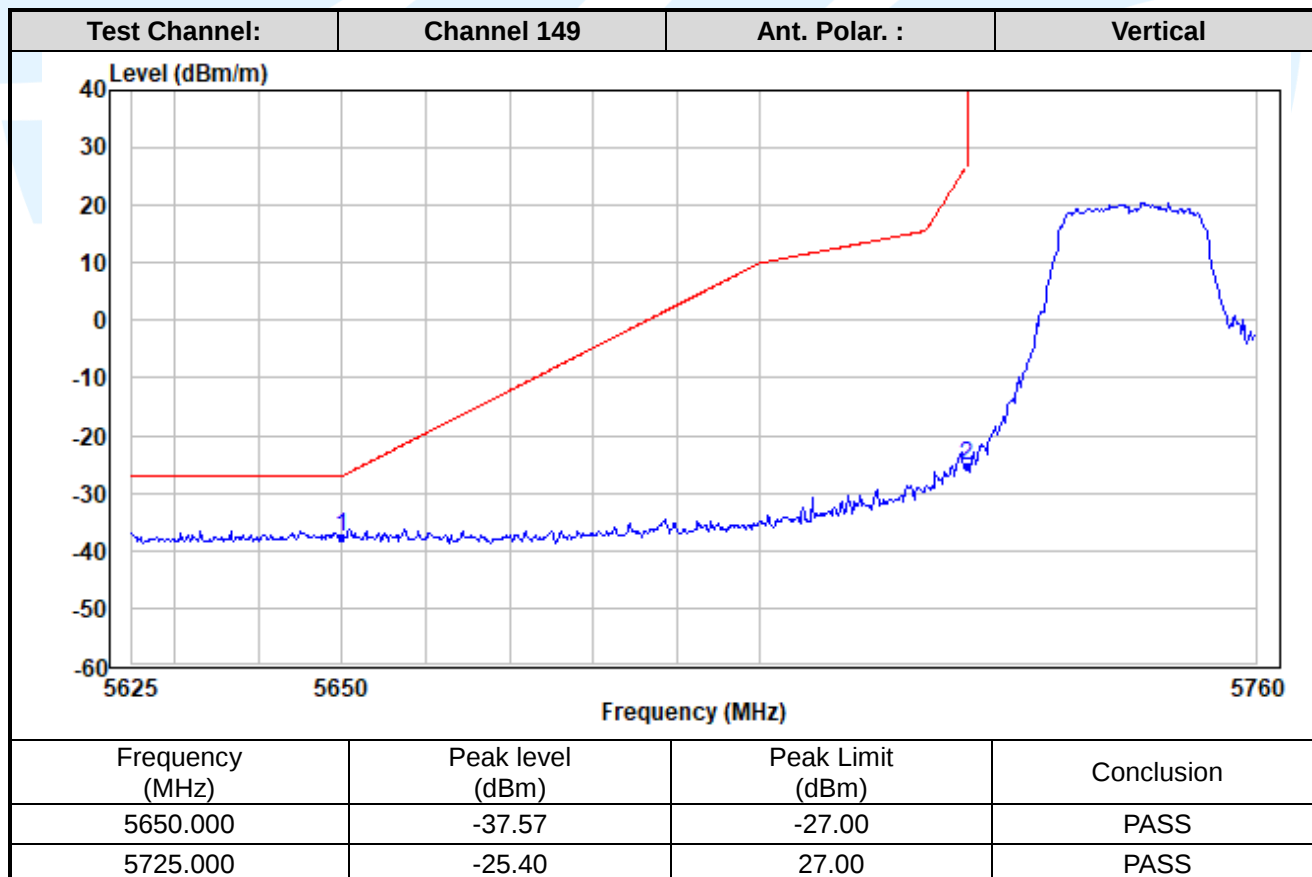
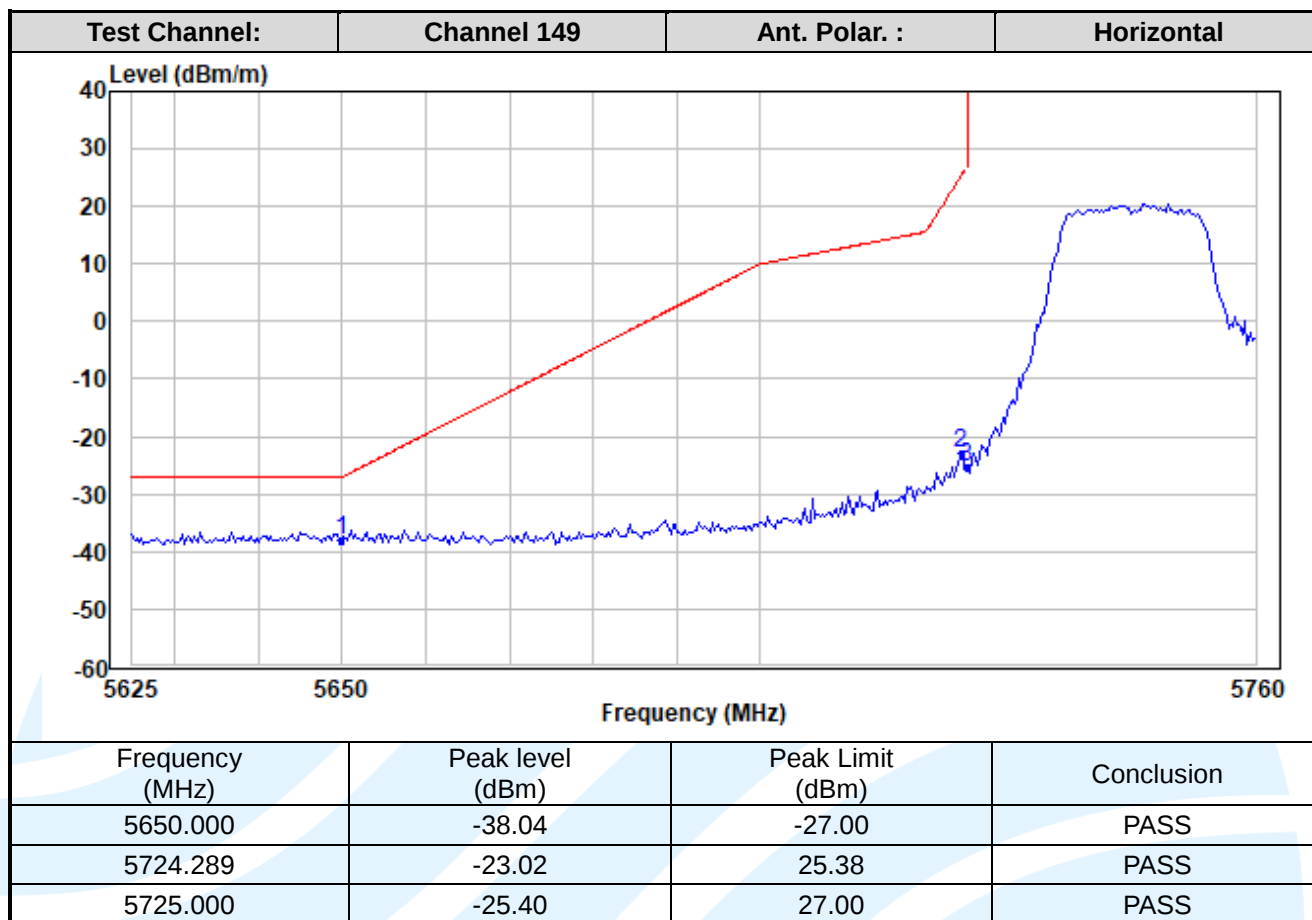
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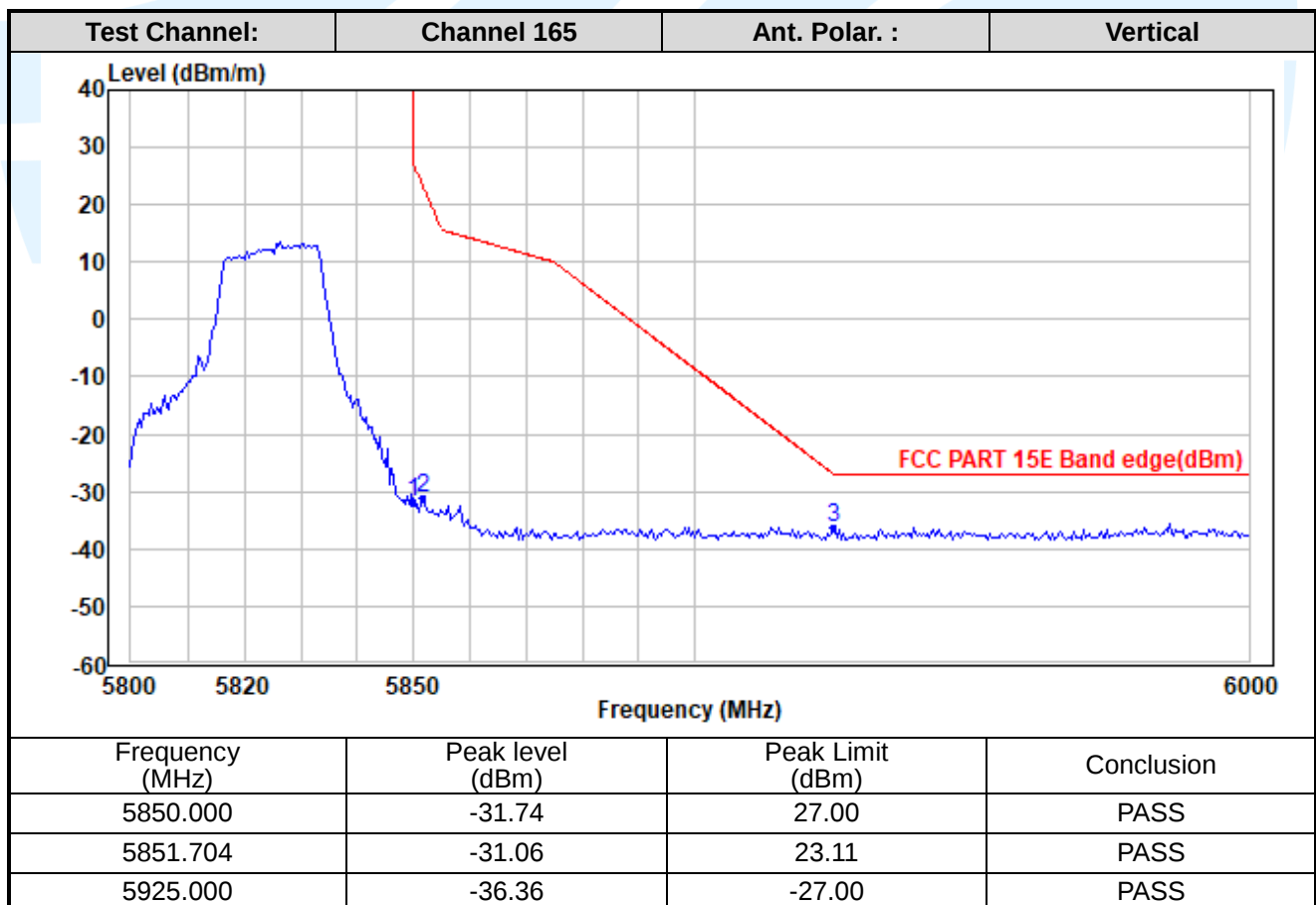
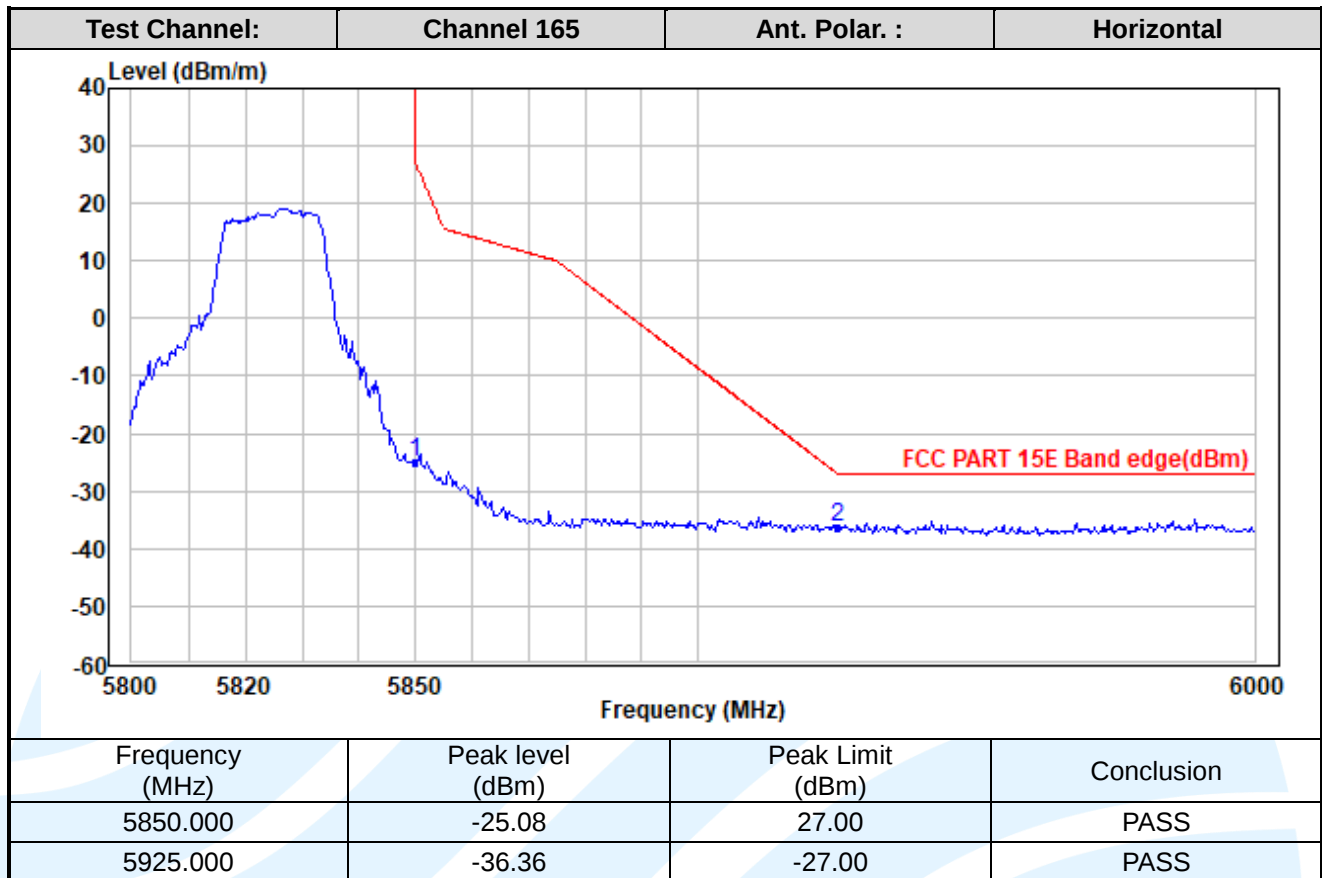
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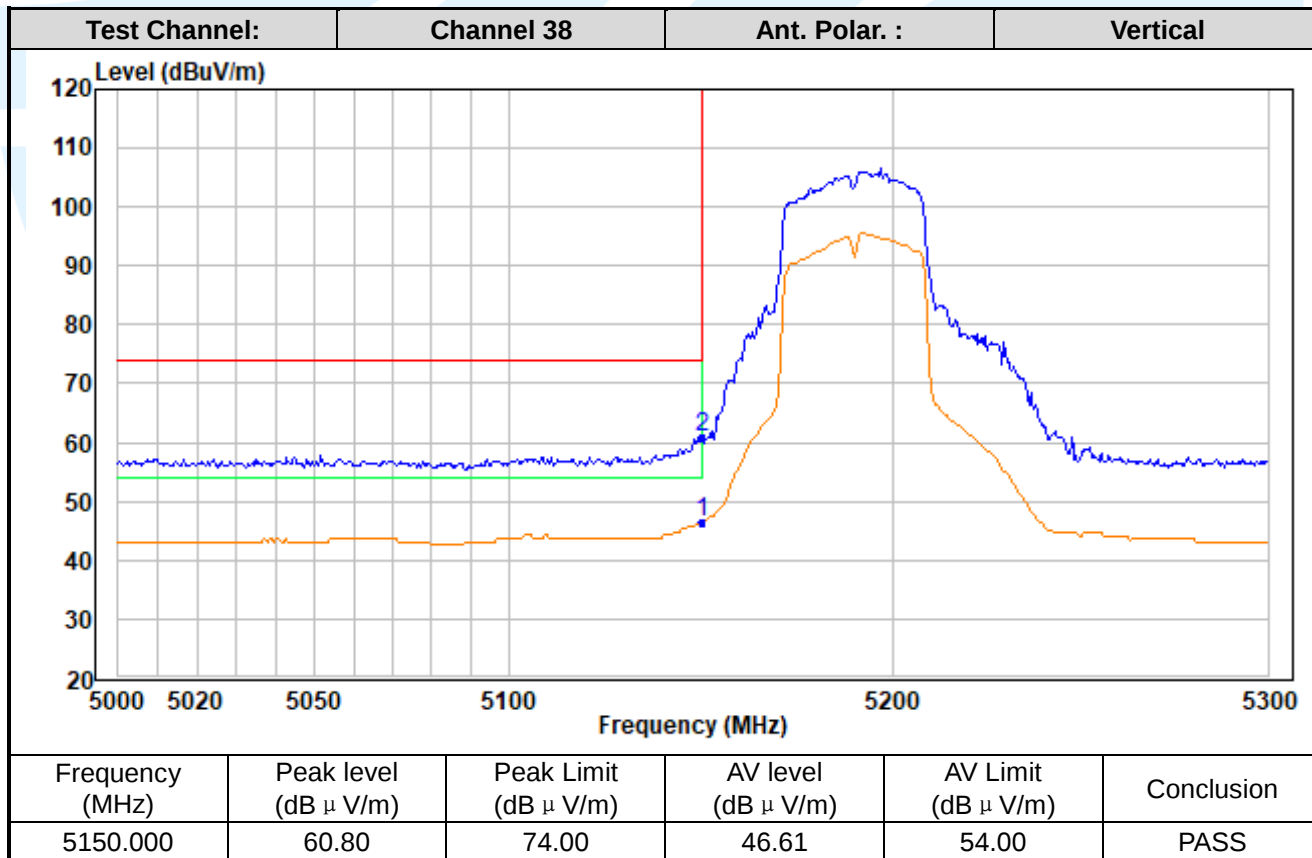
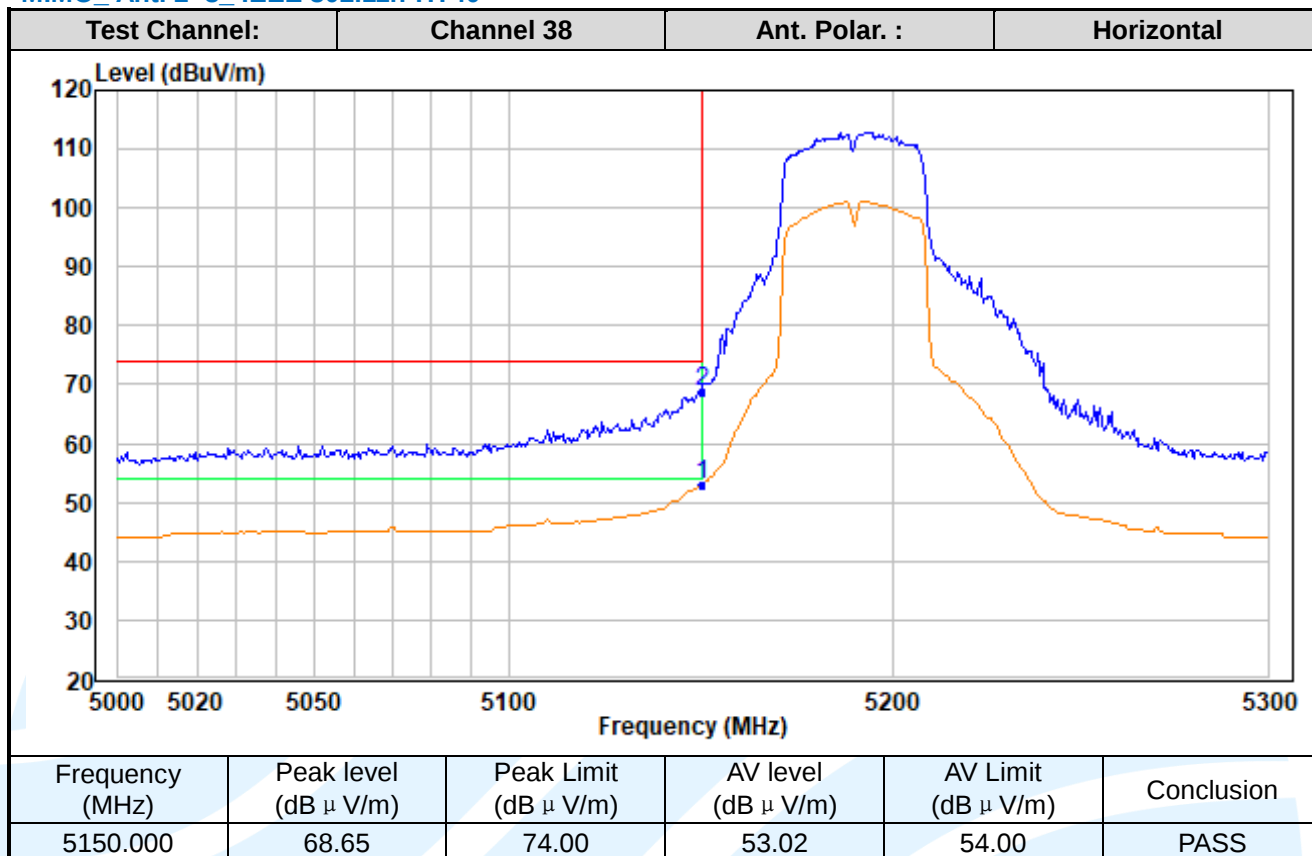
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MIMO_Ant. 2+3_ IEEE 802.11n-HT40



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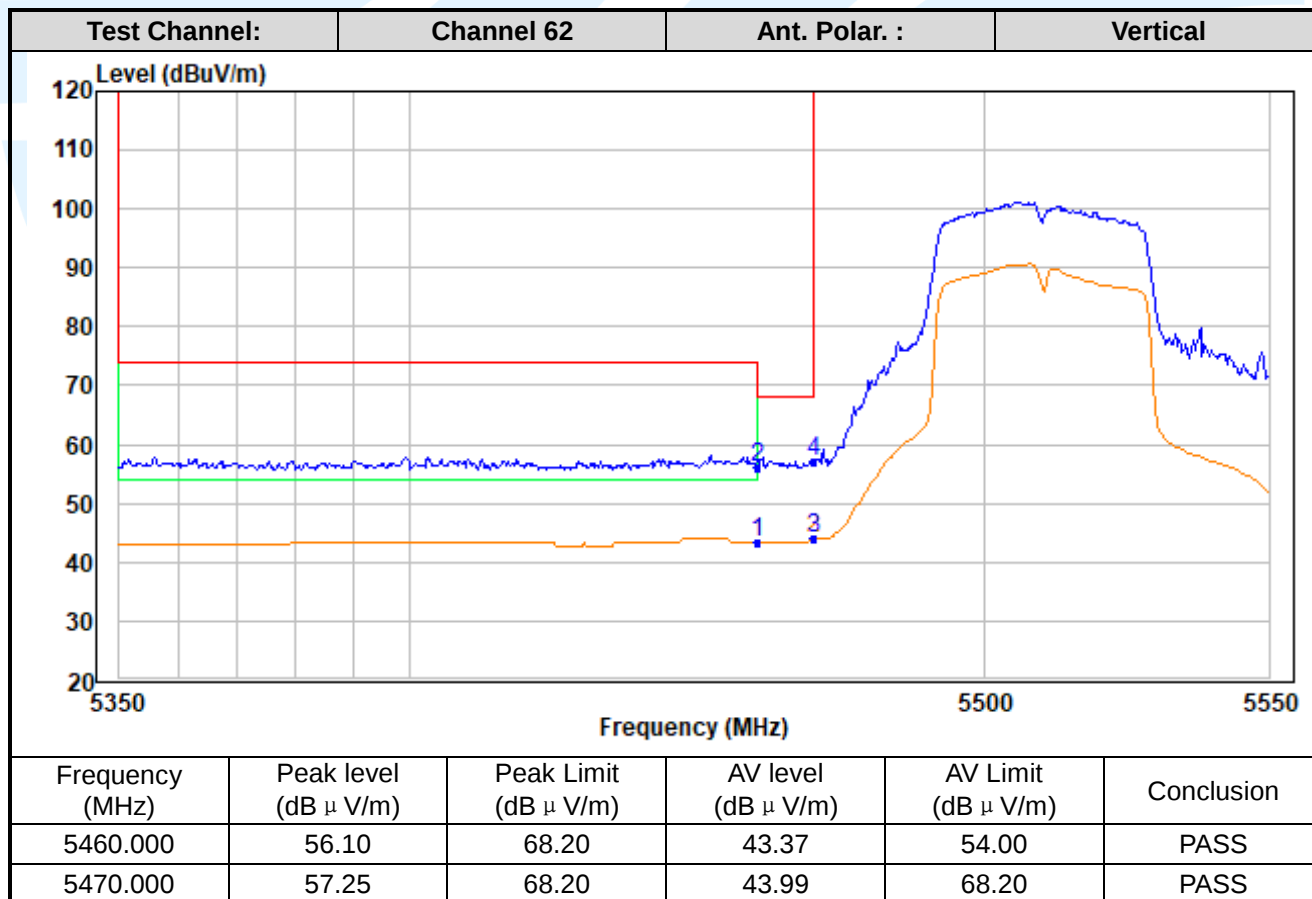
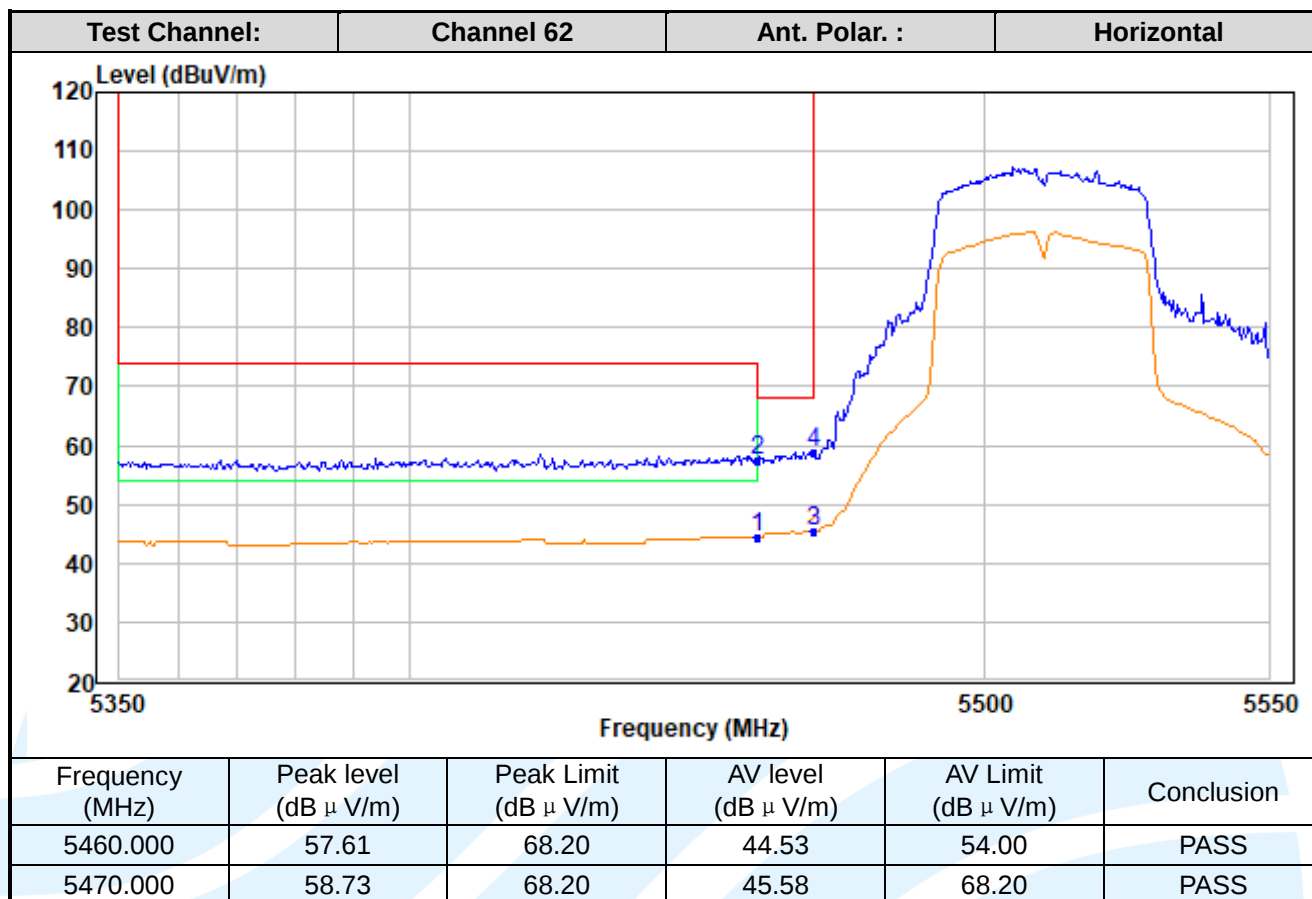
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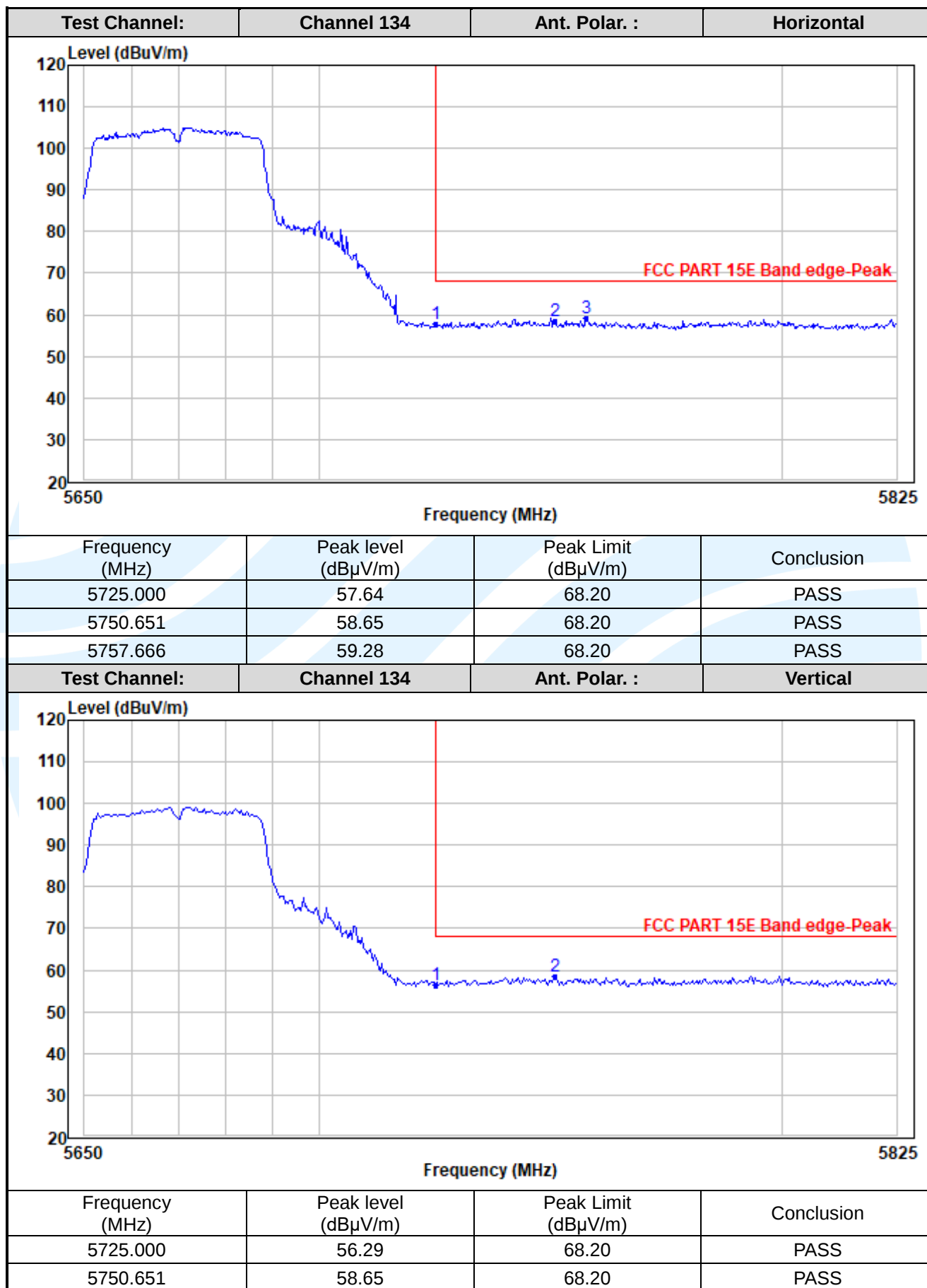
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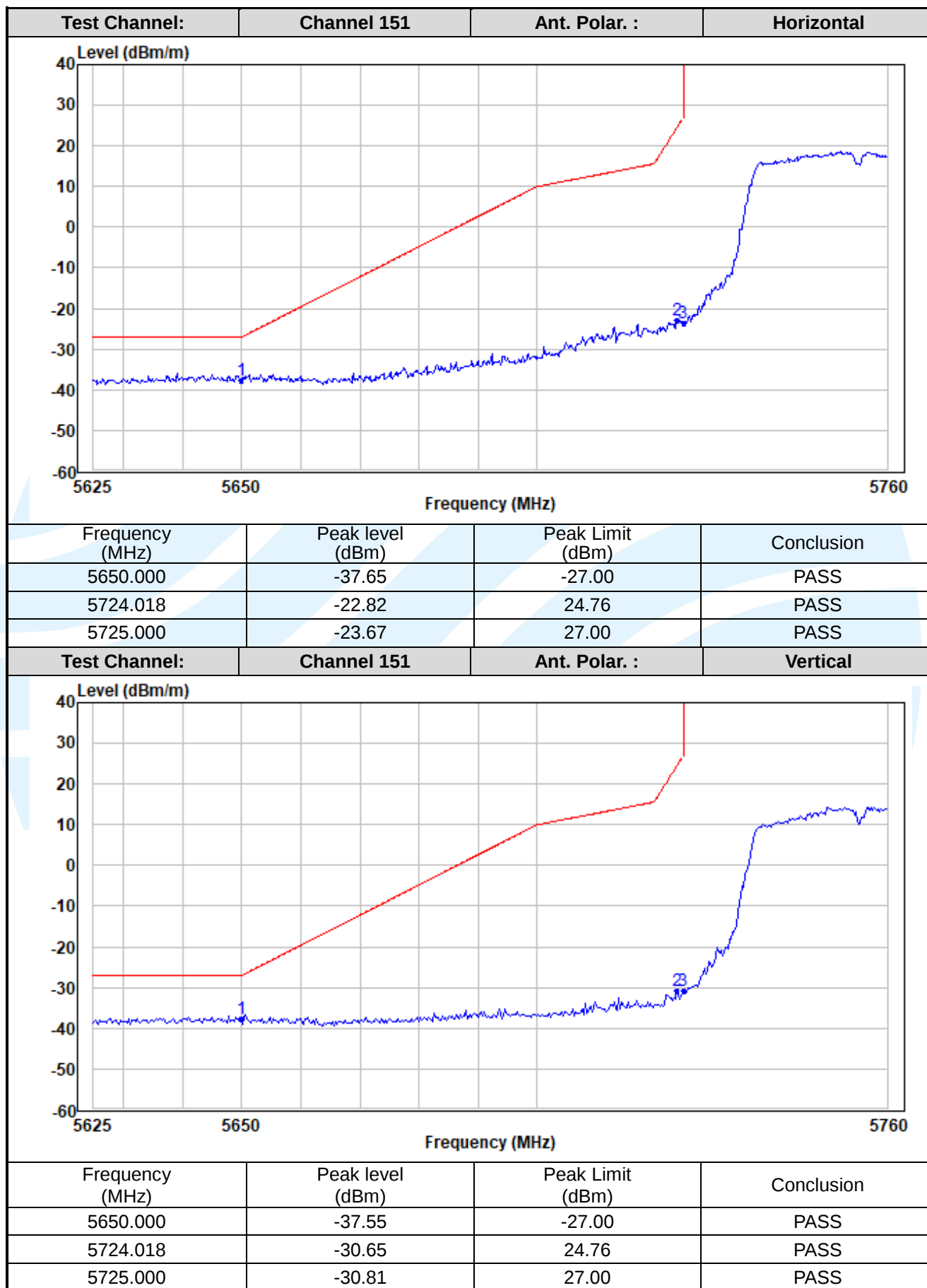
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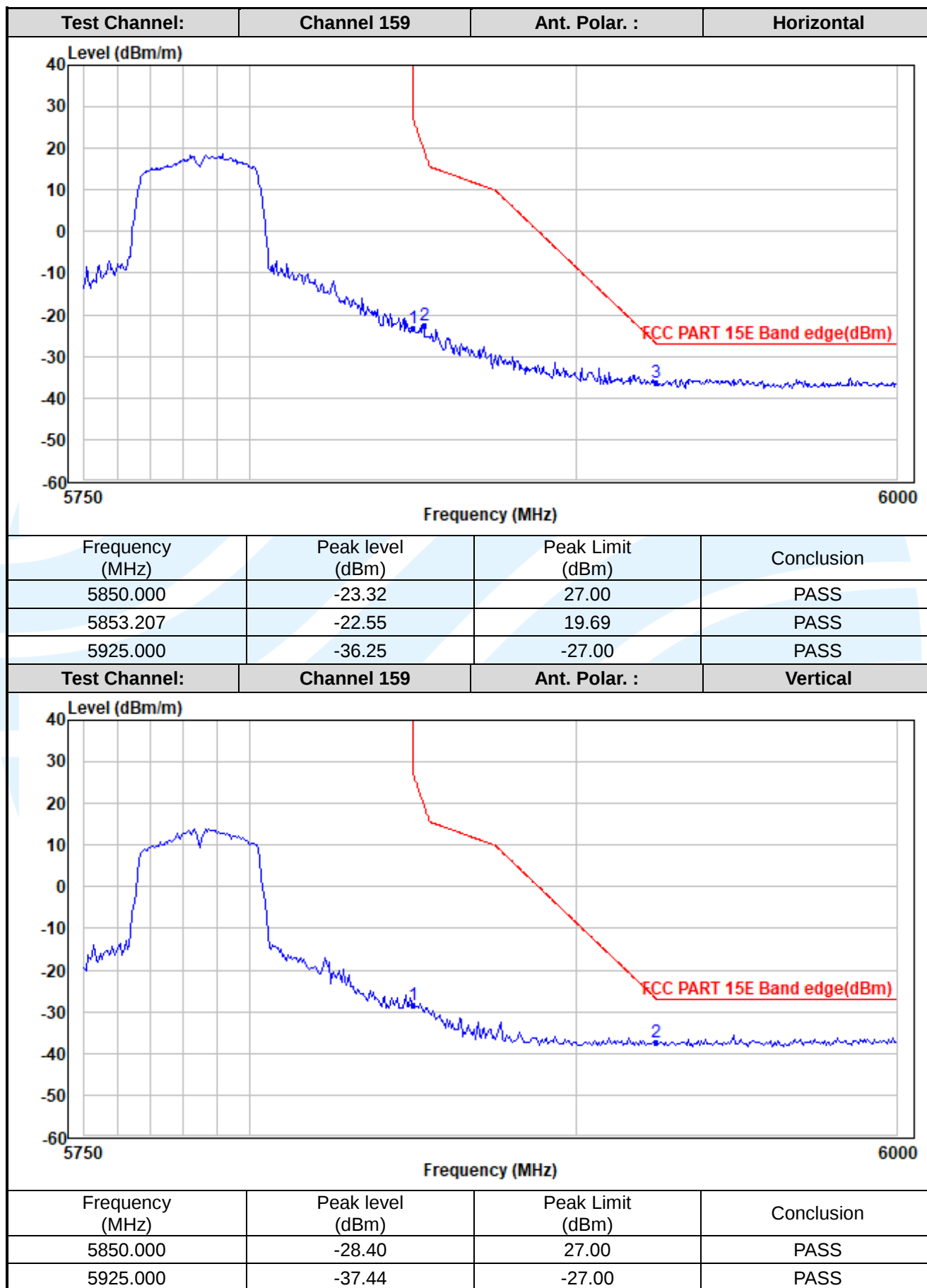
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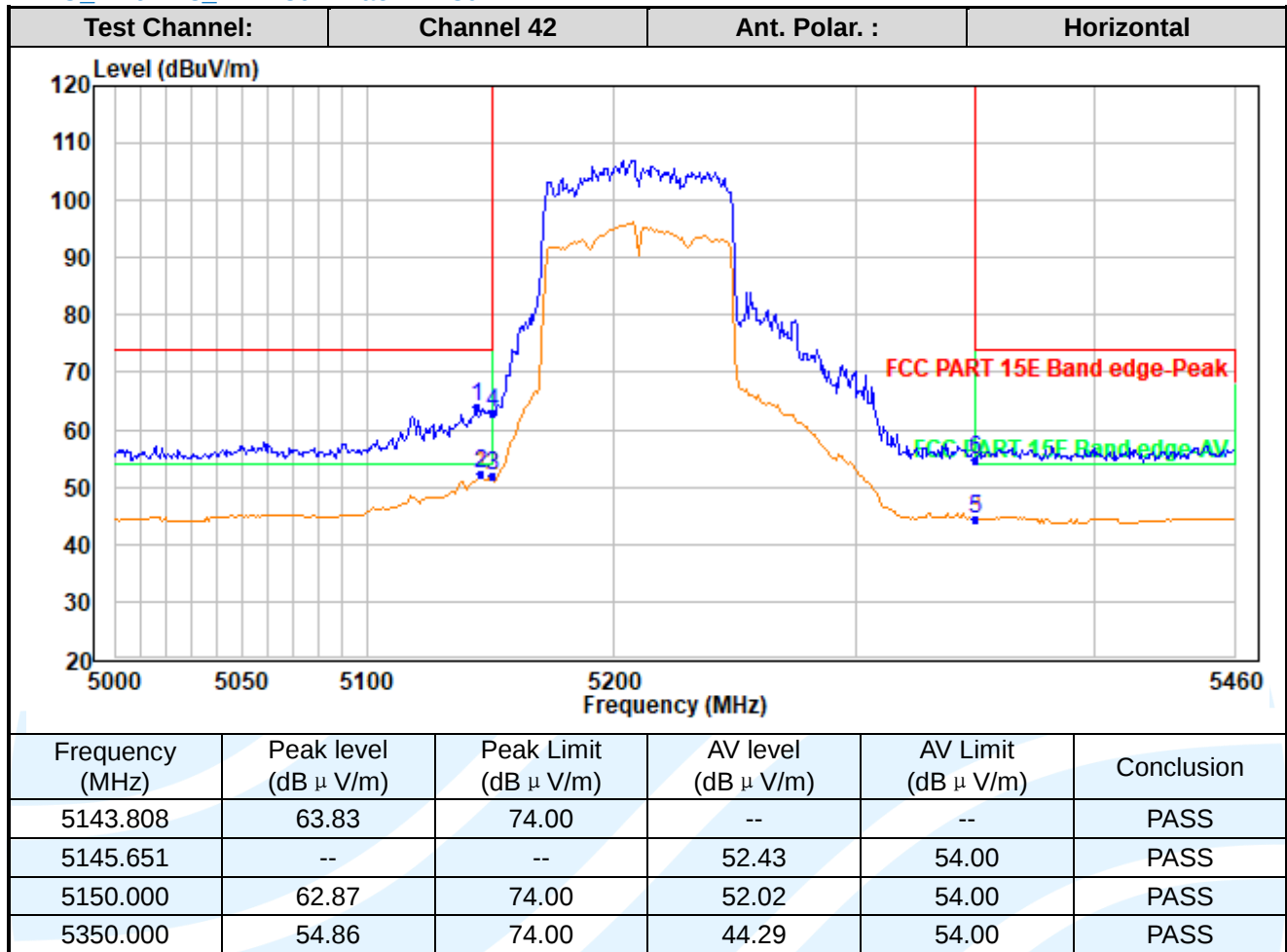
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MIMO_Ant. 2+3_ IEEE 802.11ac-VHT80



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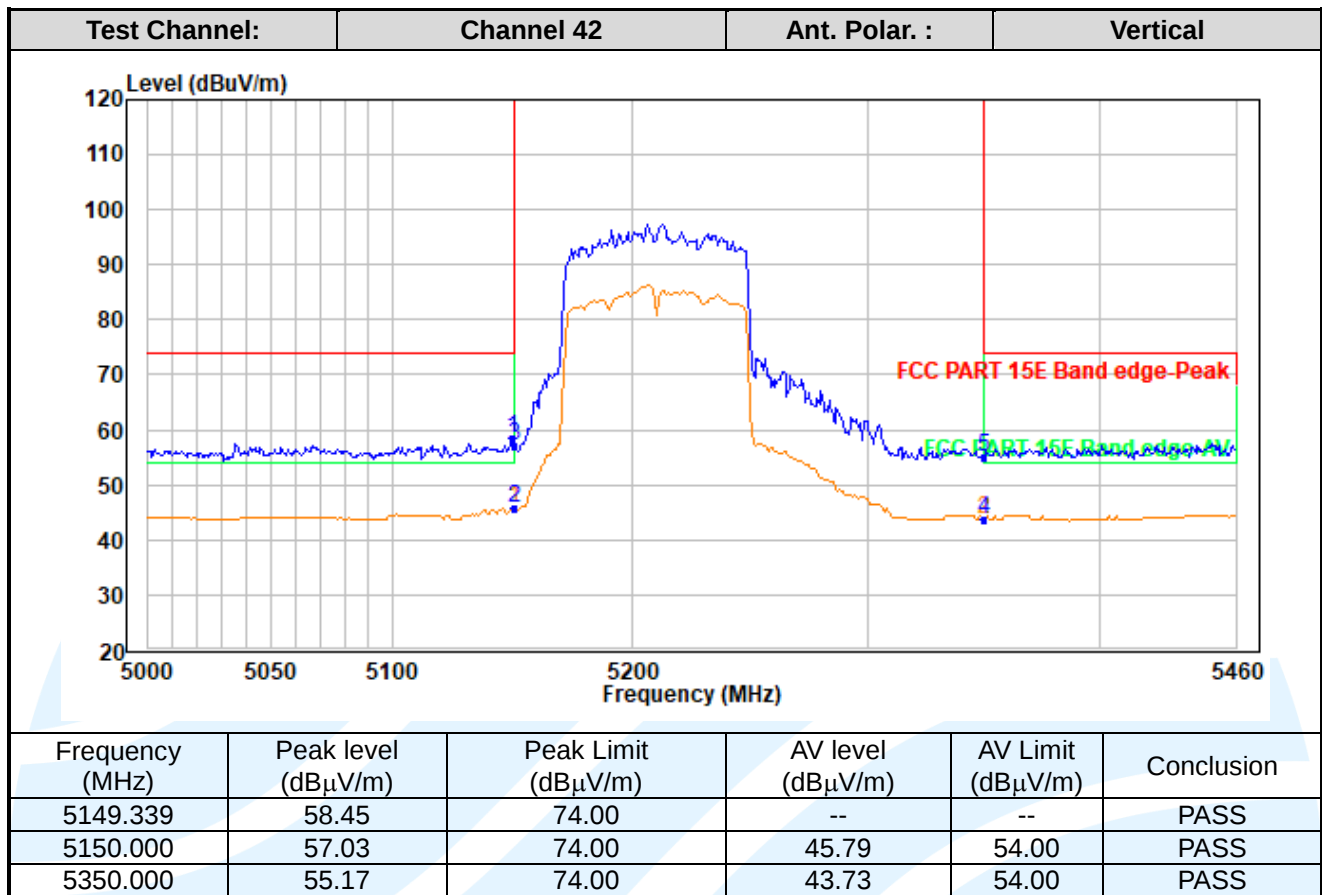
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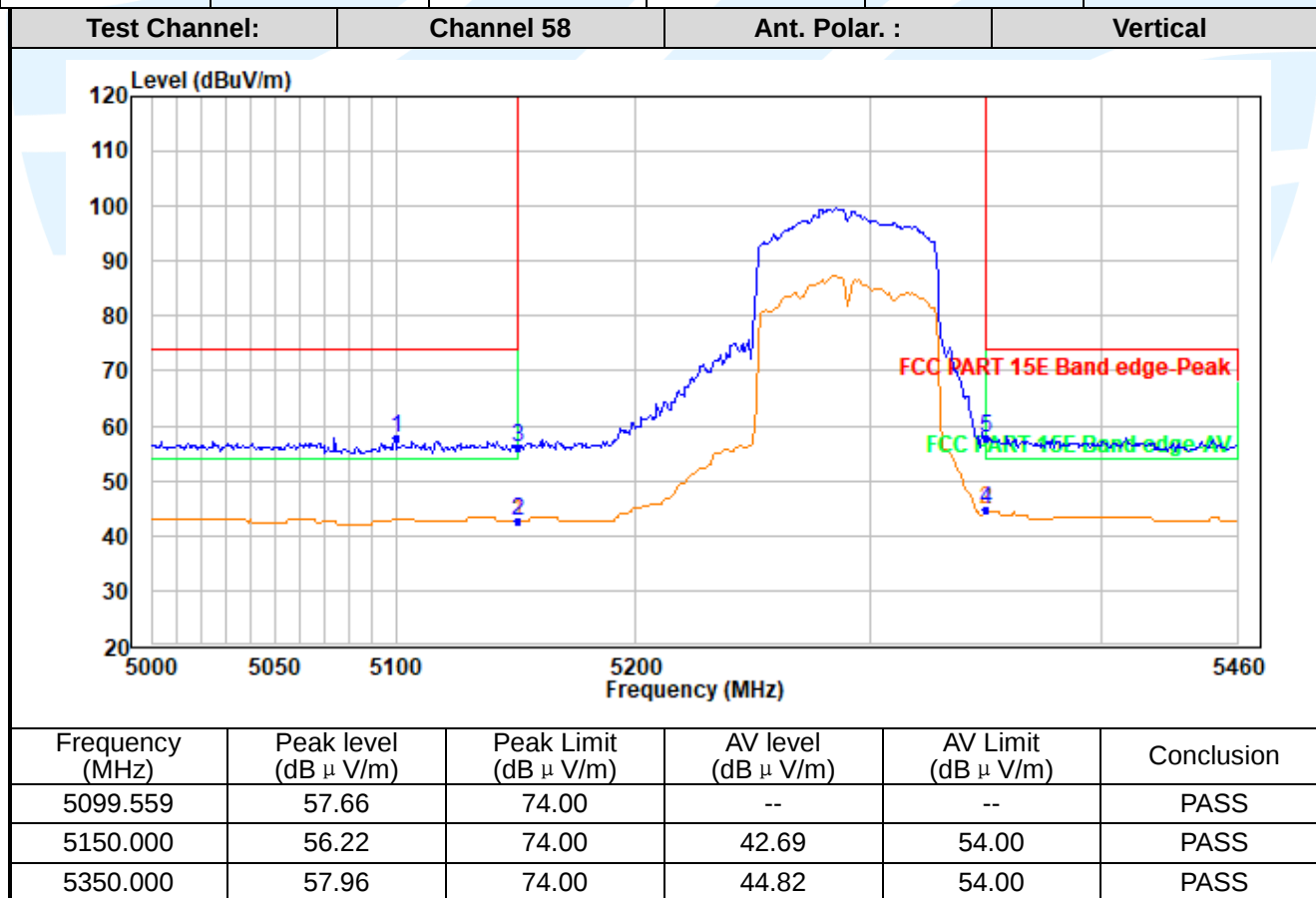
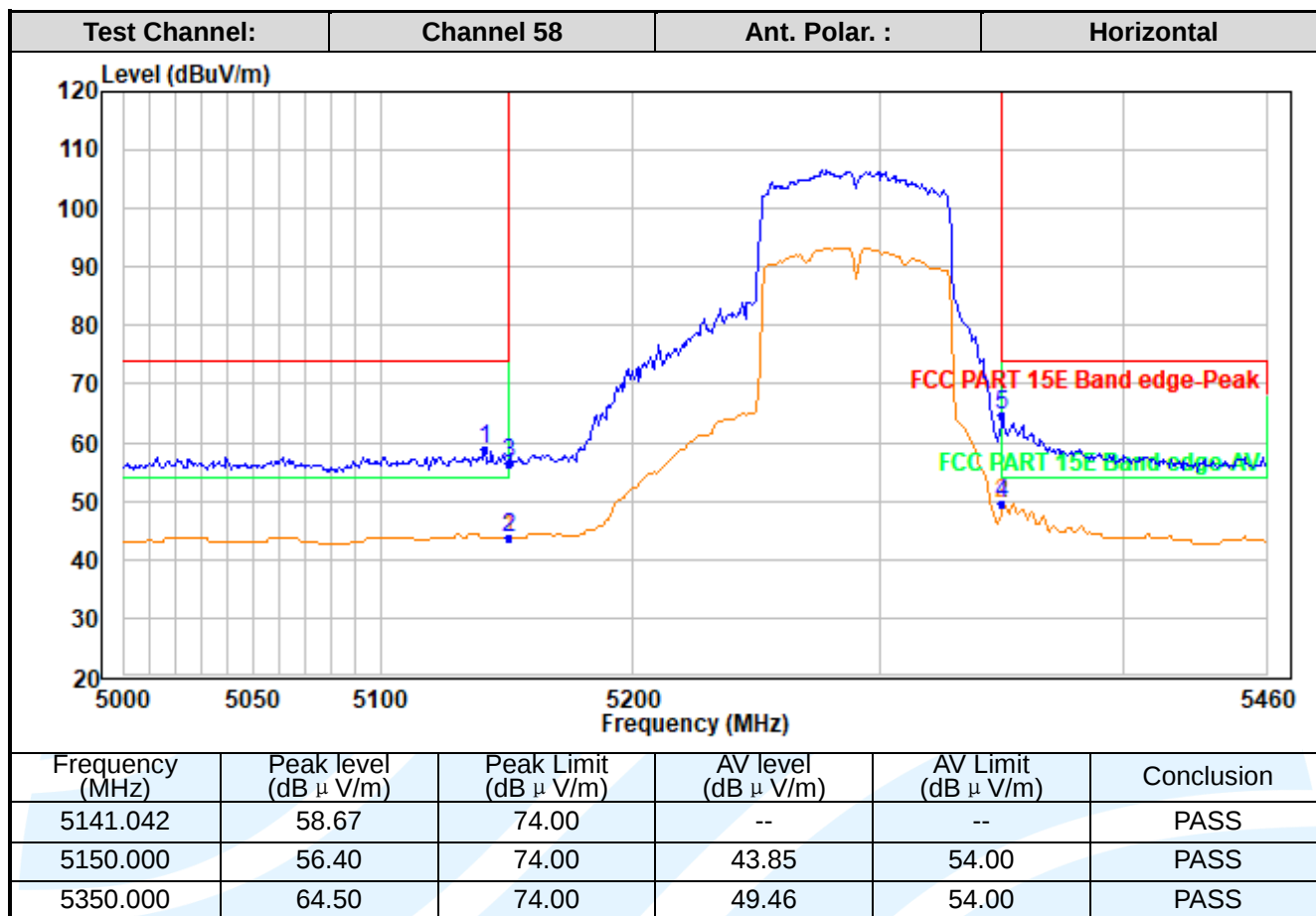
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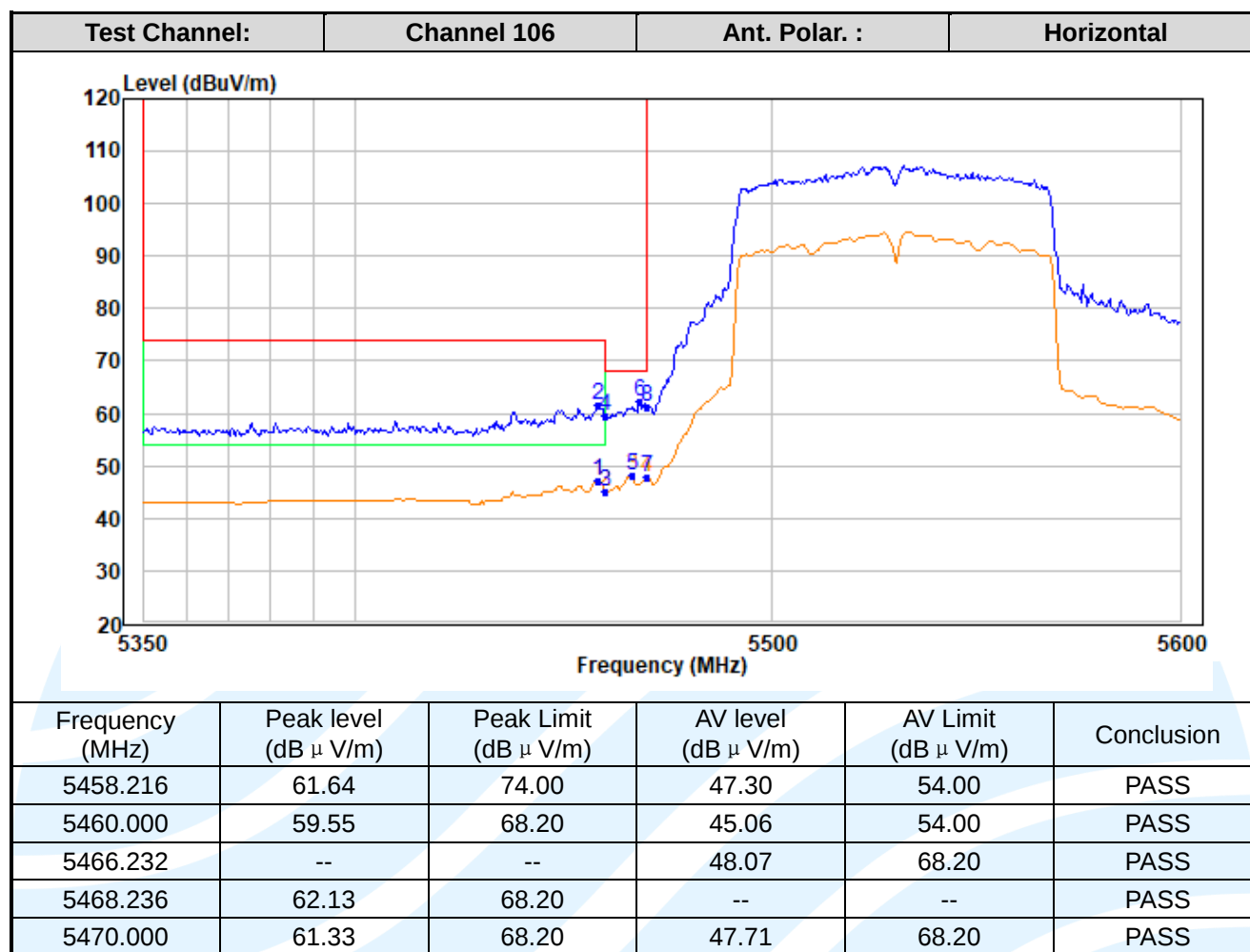
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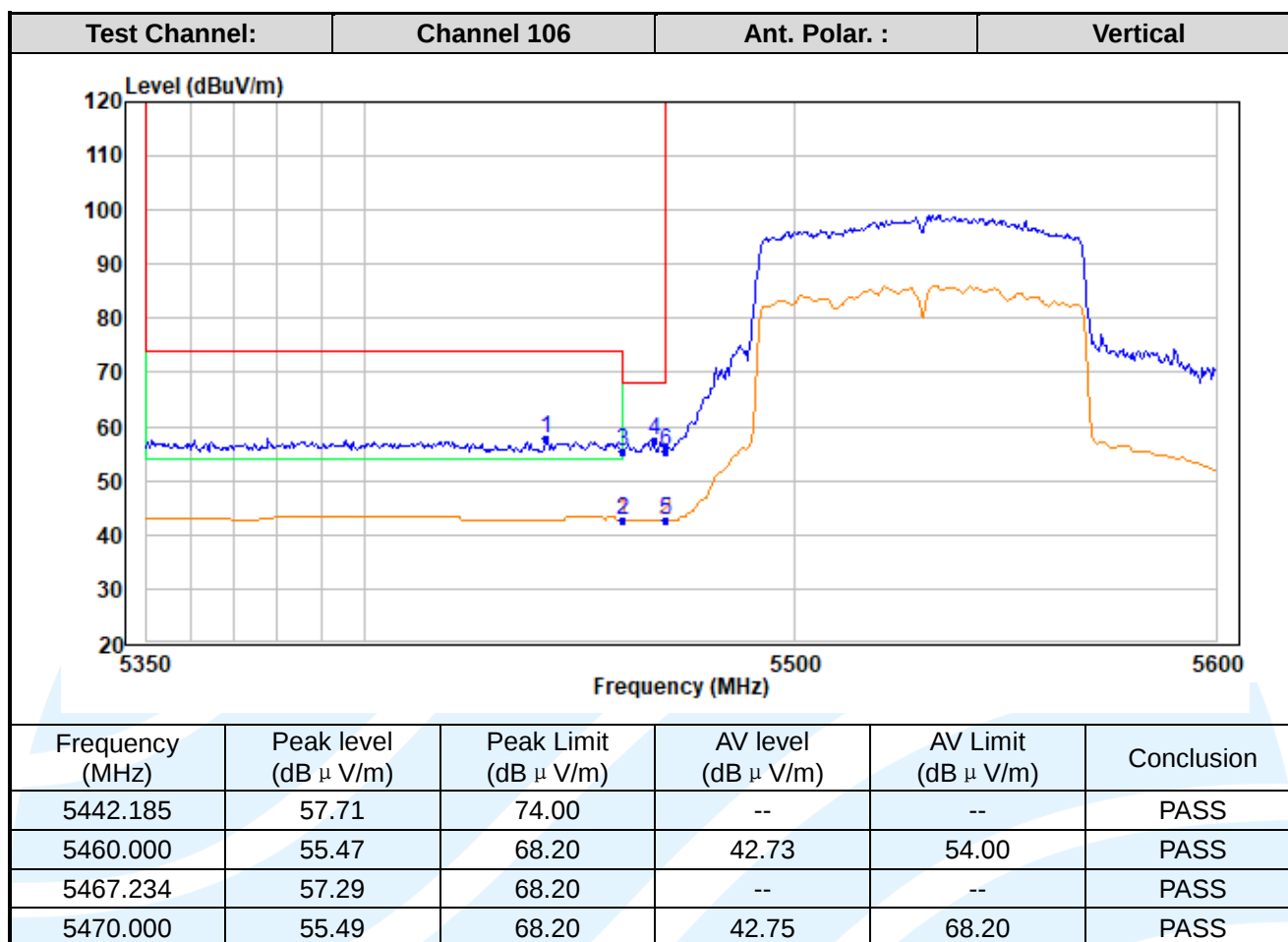
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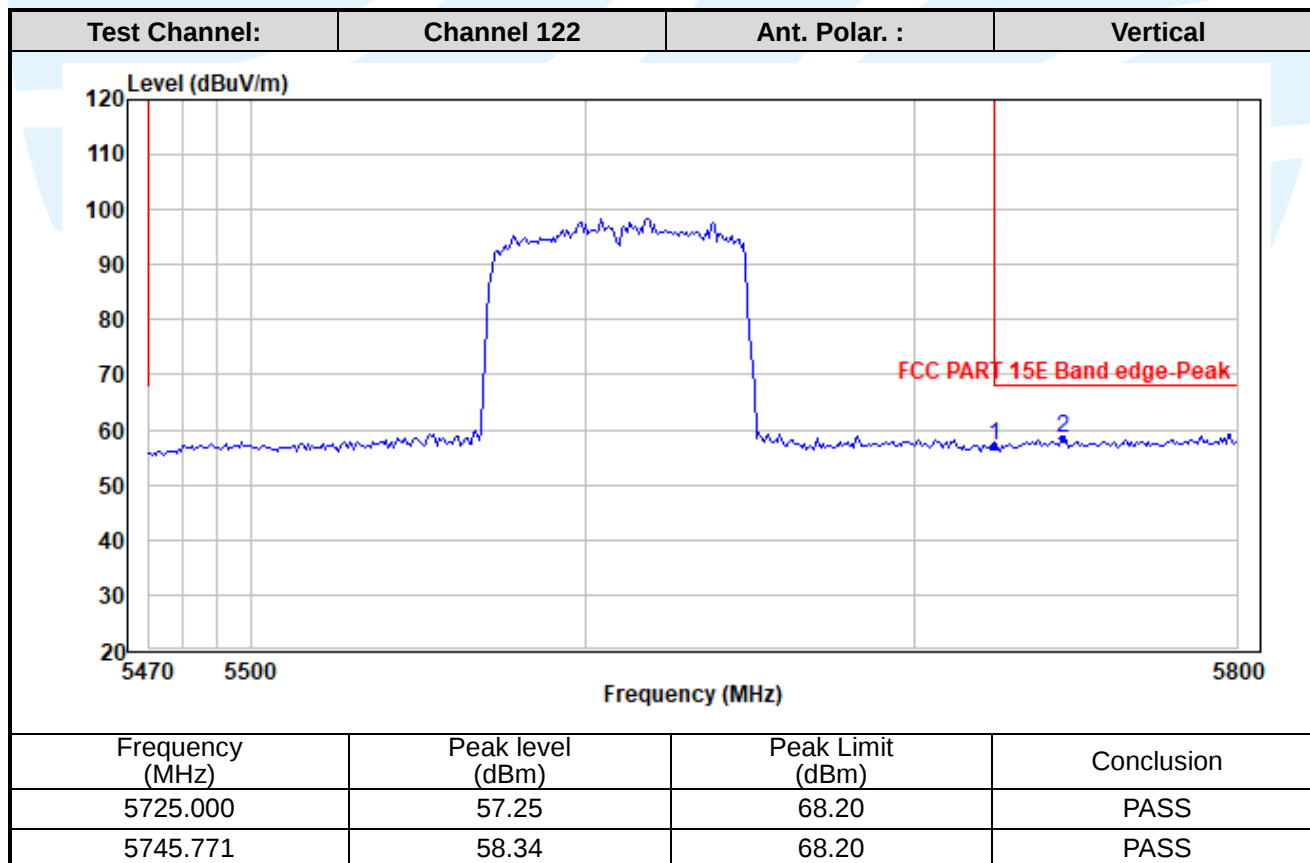
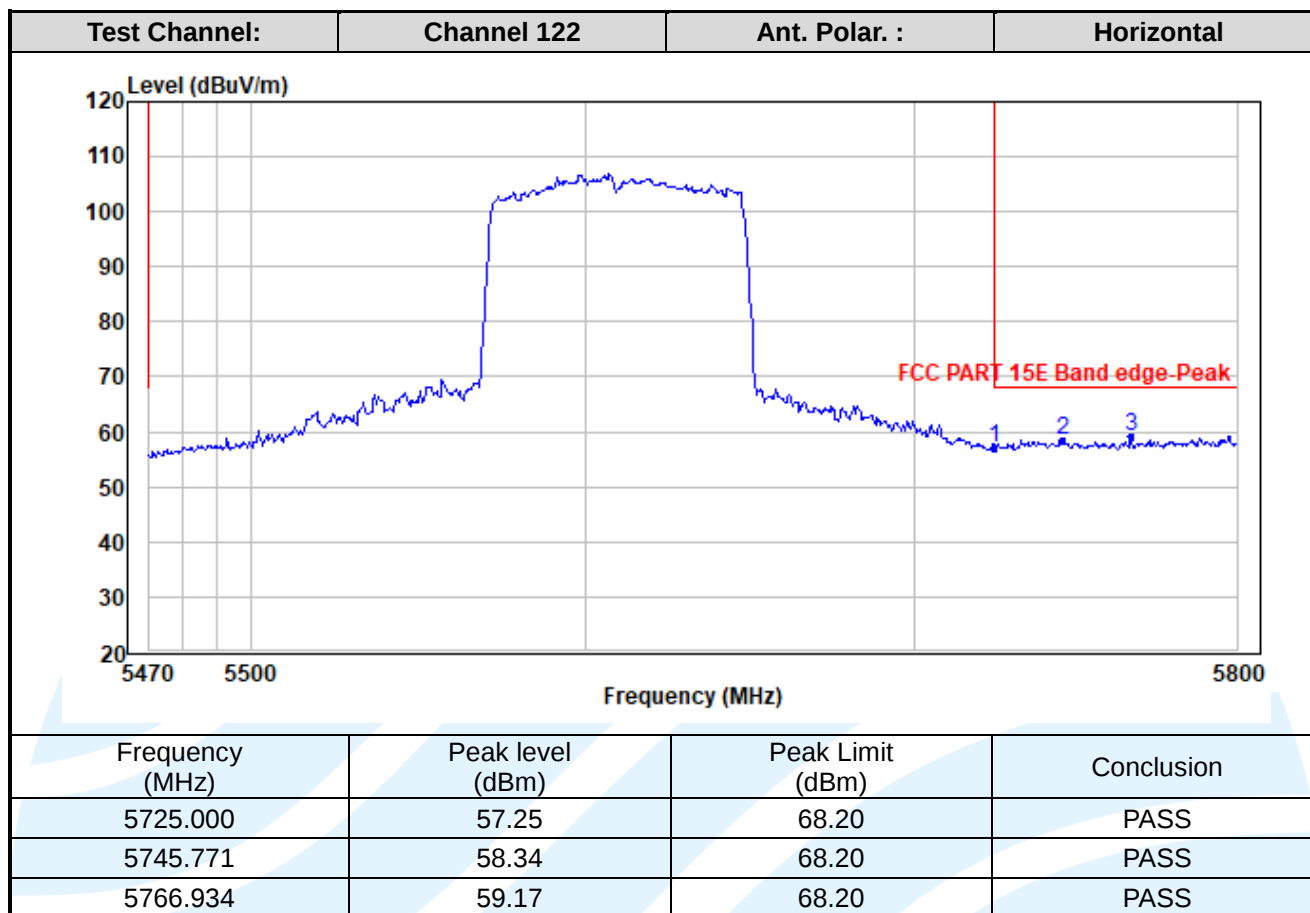
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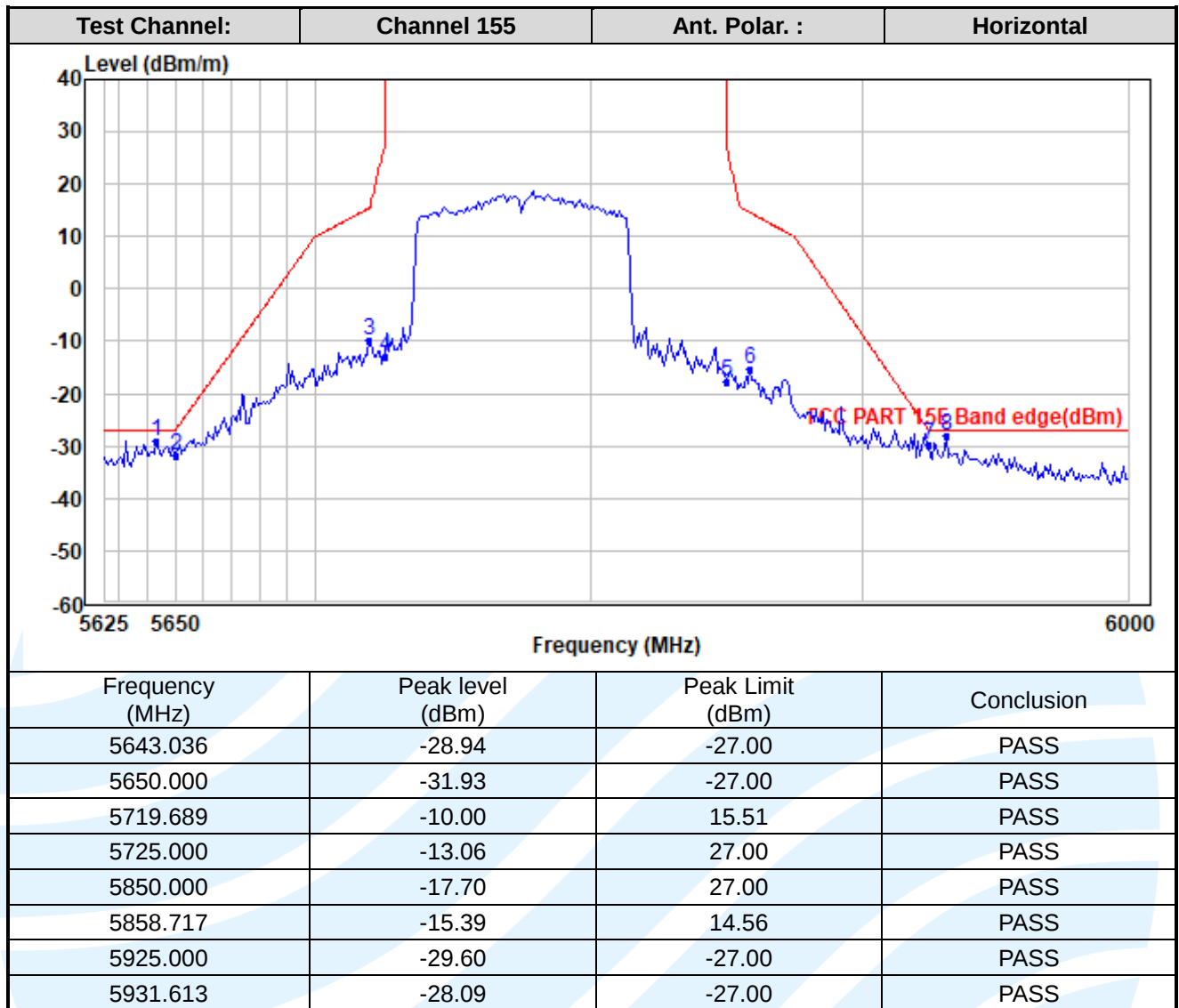
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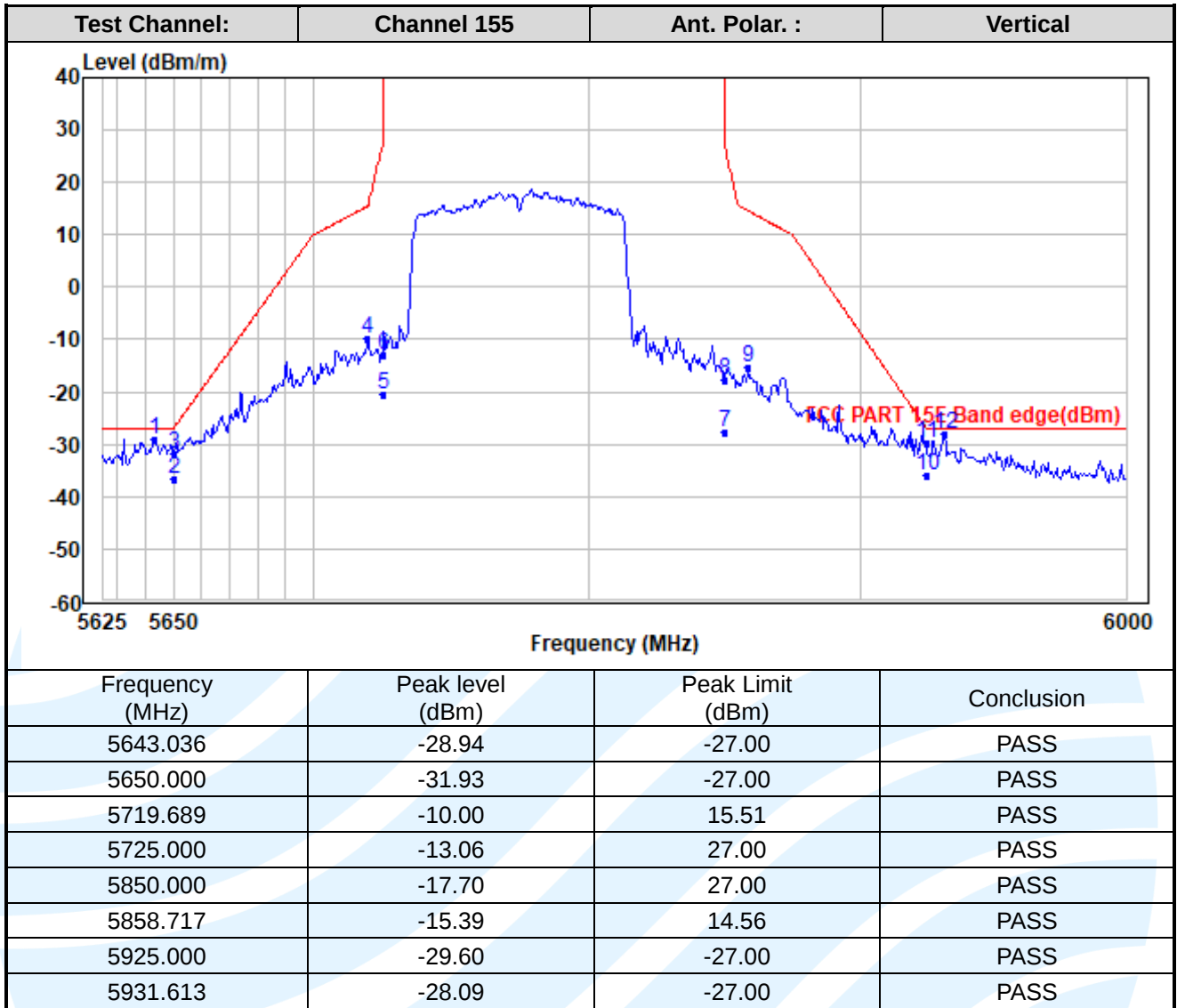
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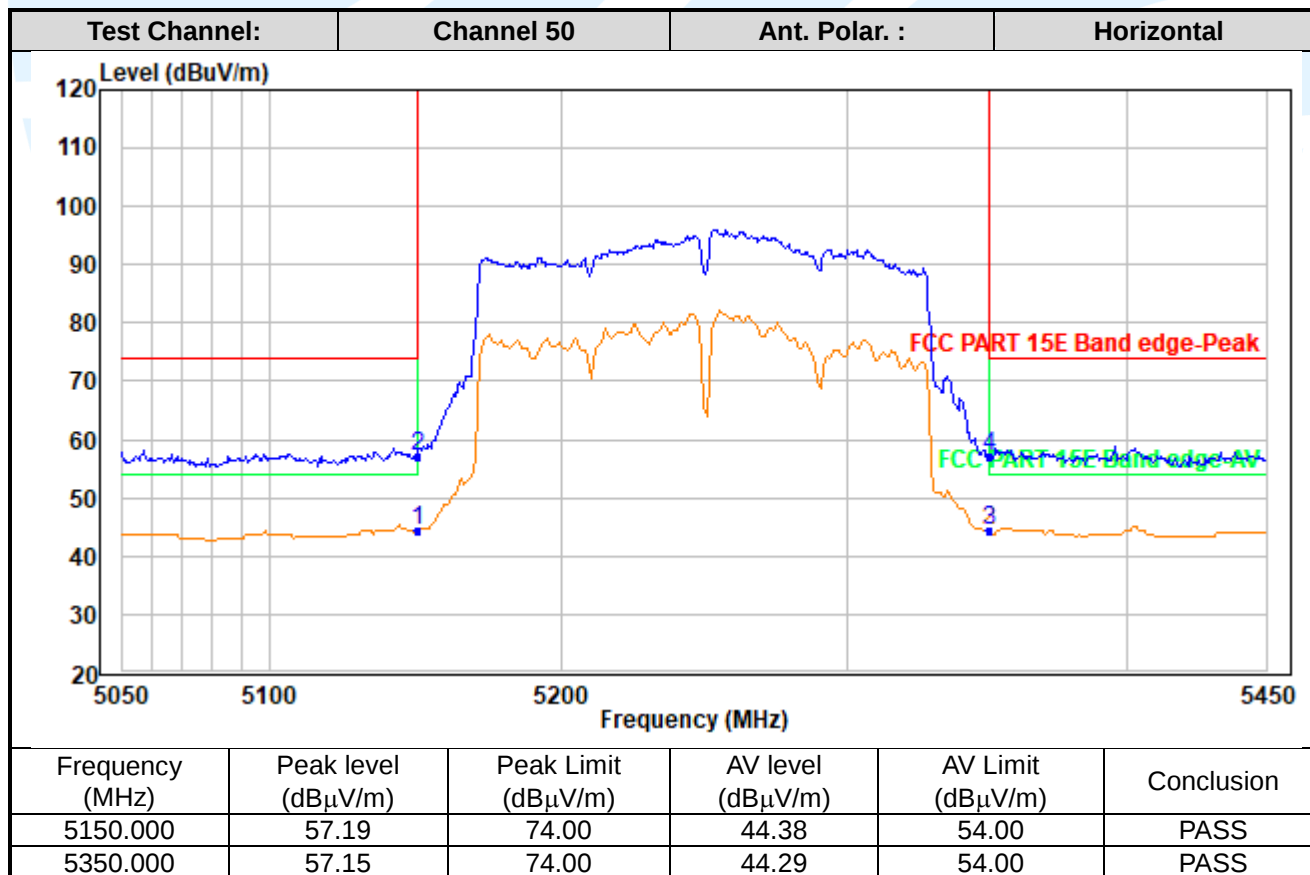
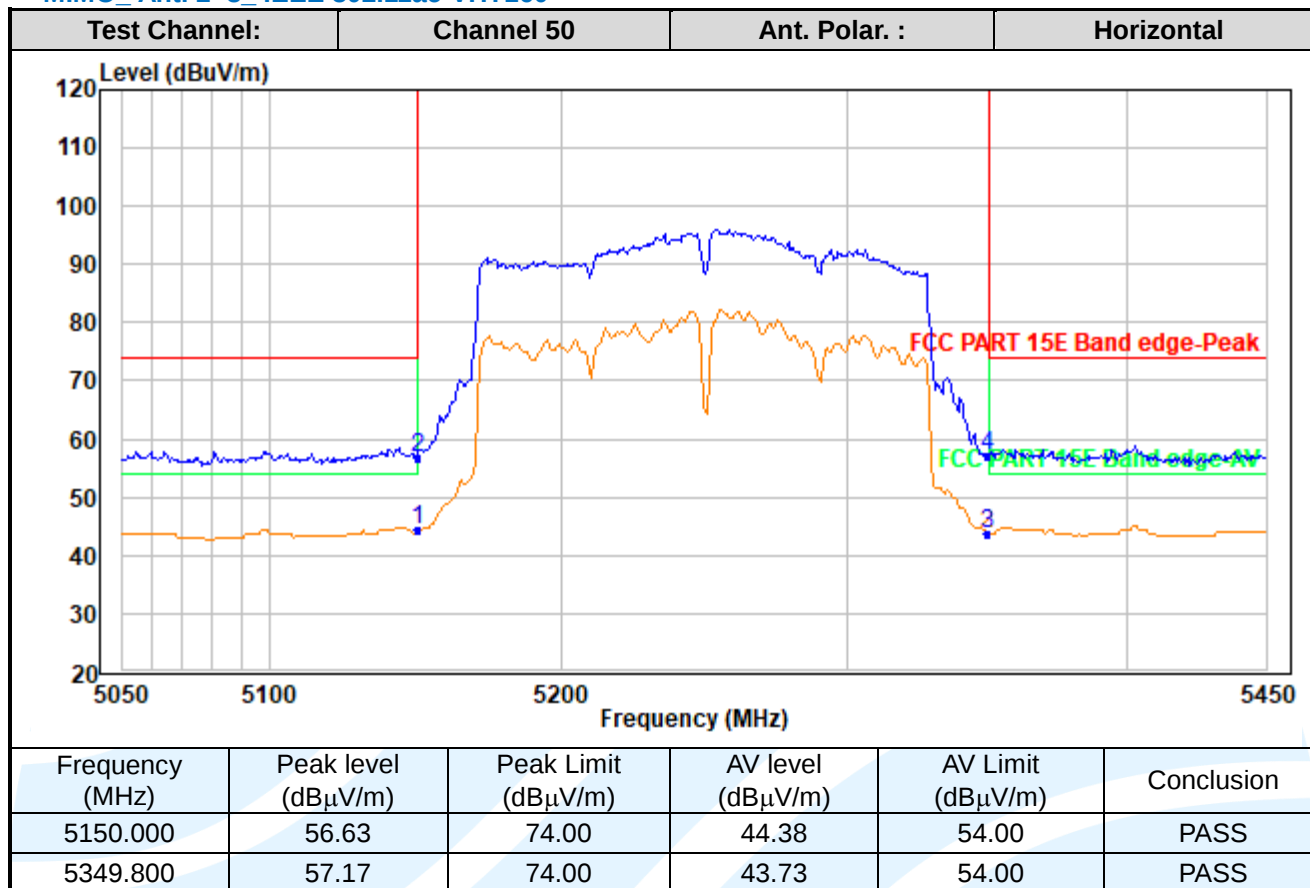
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MIMO_Ant. 2+3_ IEEE 802.11ac-VHT160


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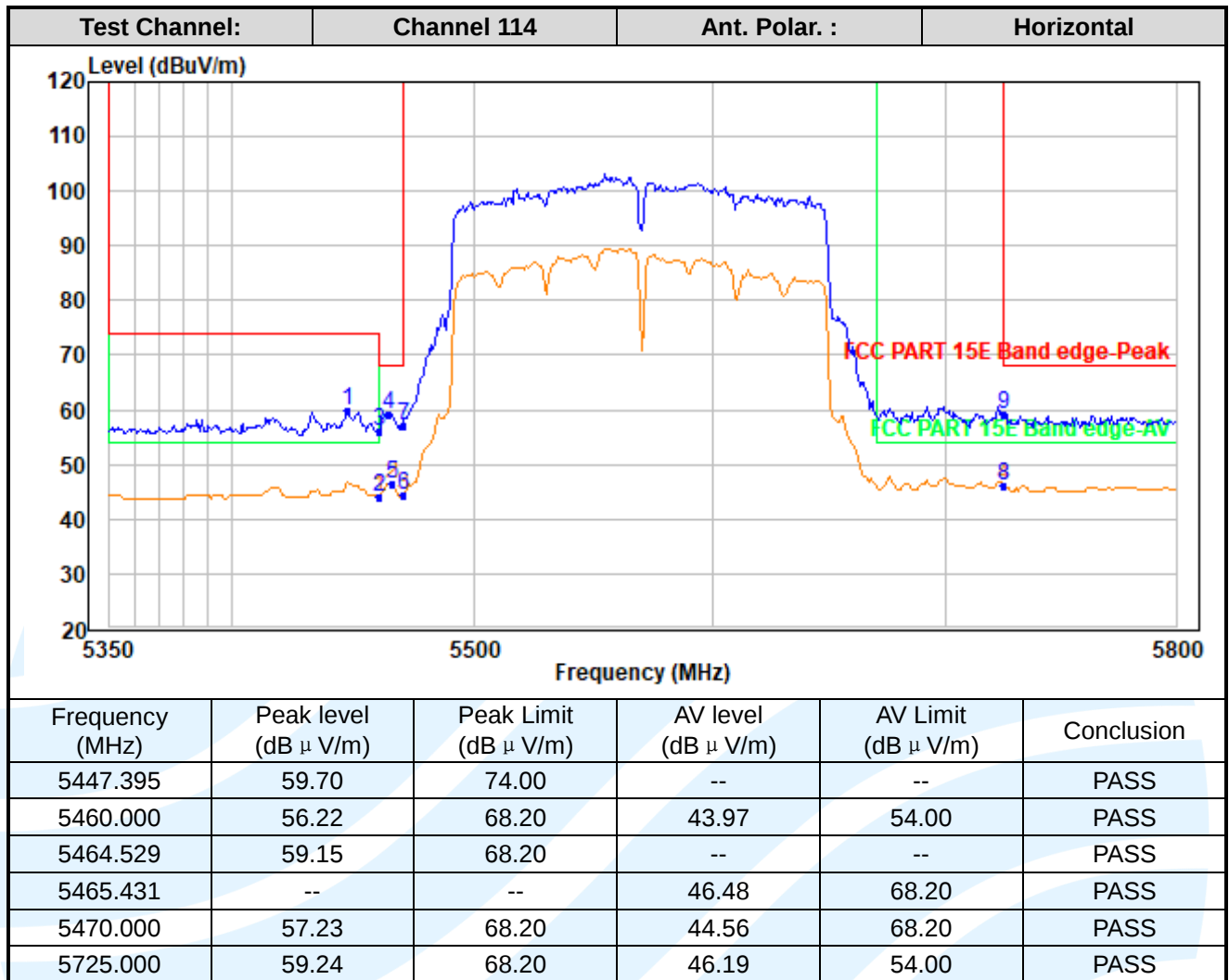
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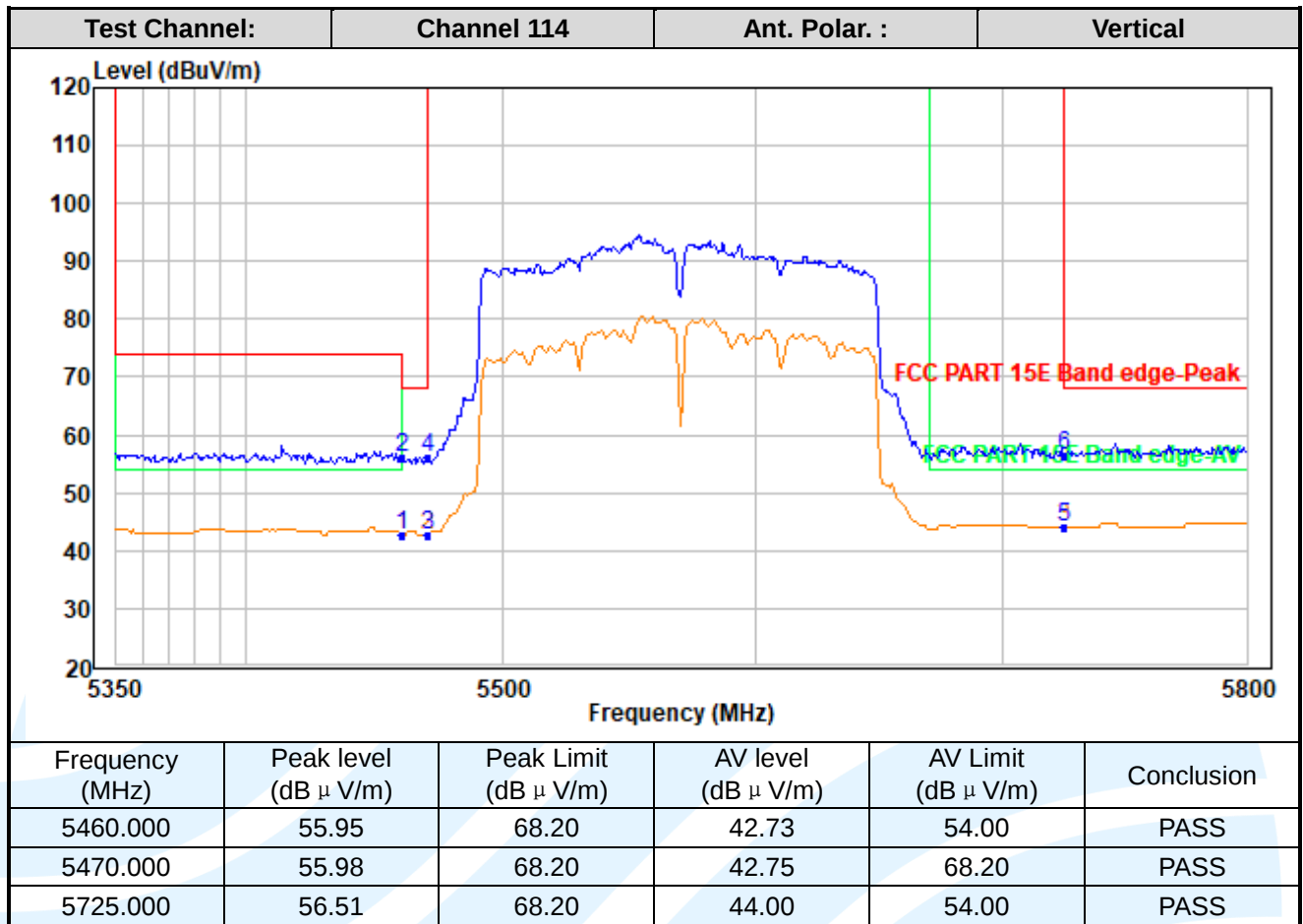
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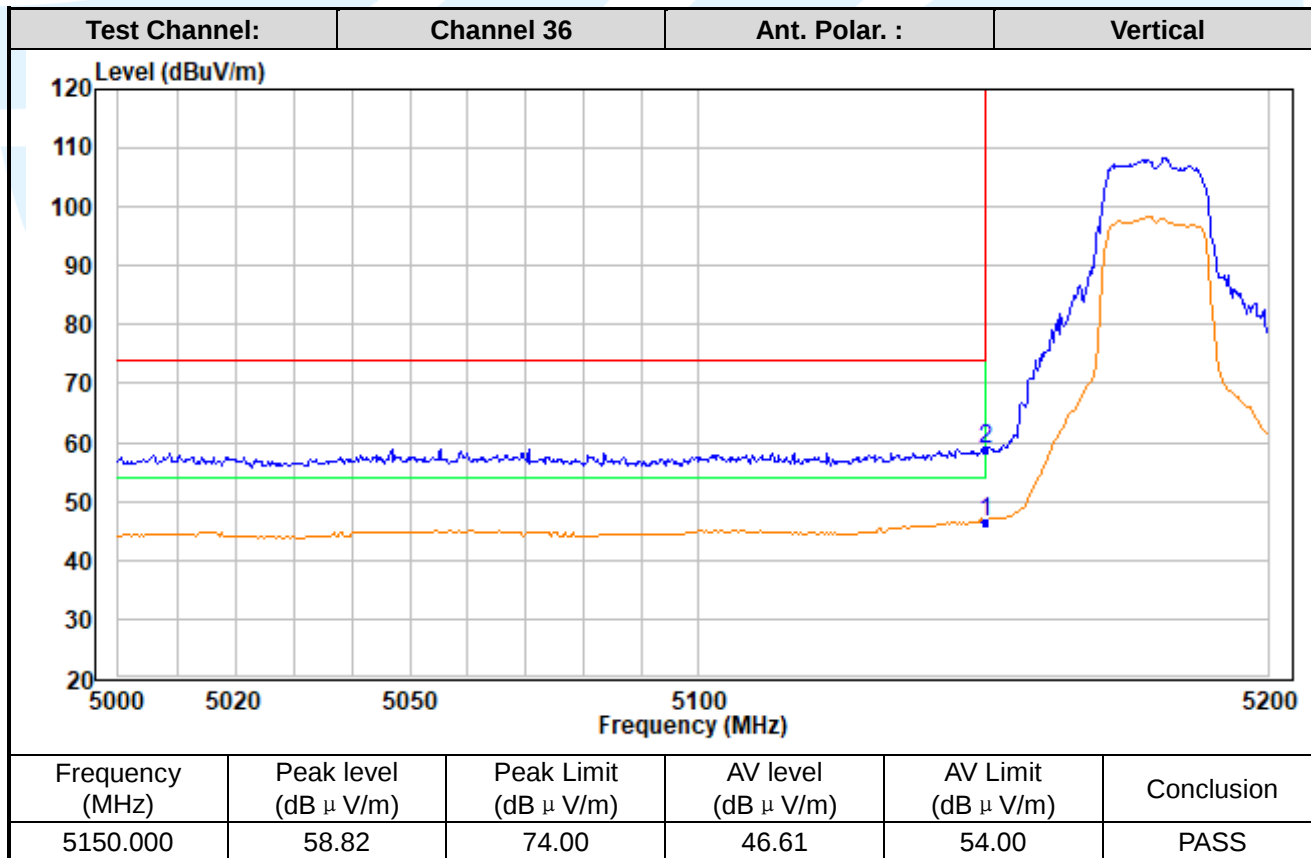
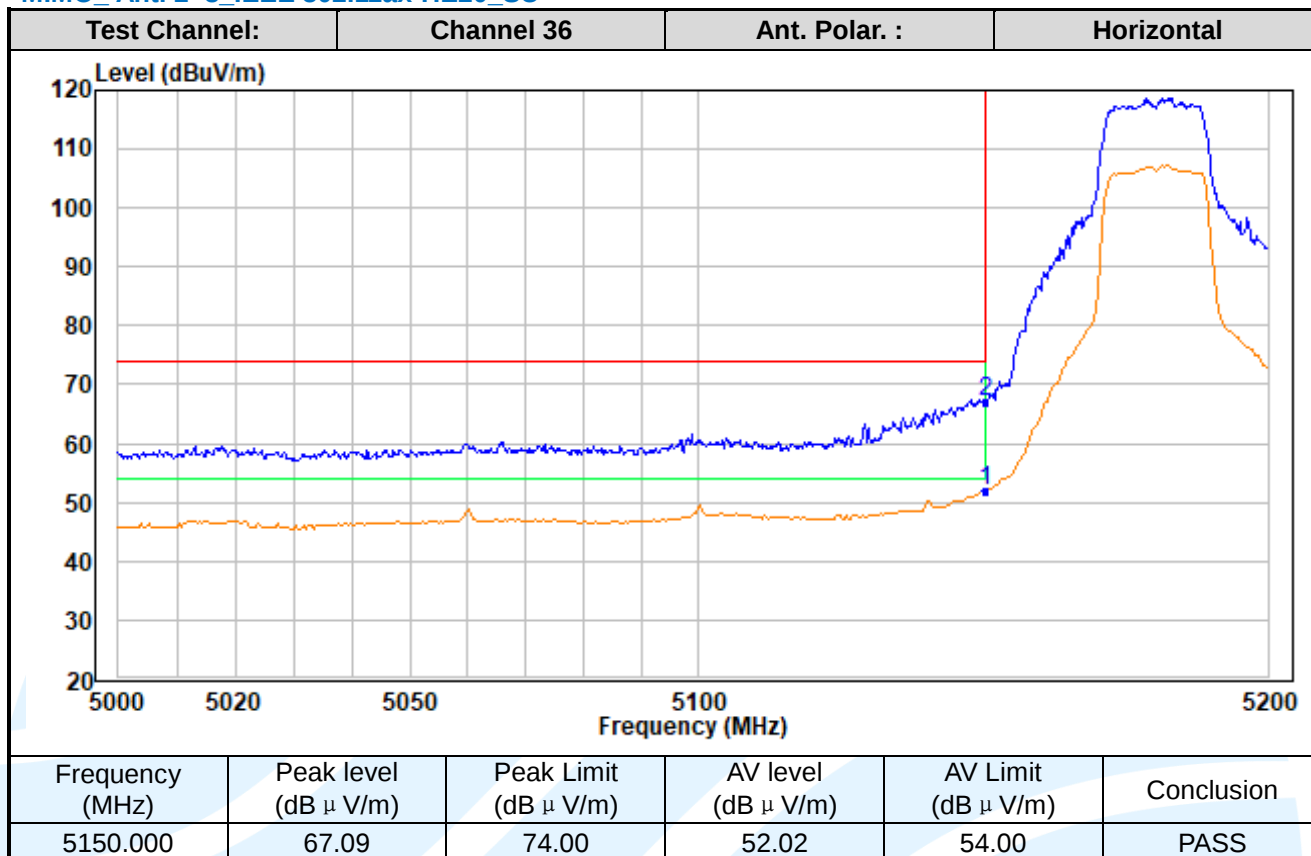
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MIMO_Ant. 2+3_ IEEE 802.11ax-HE20_SU



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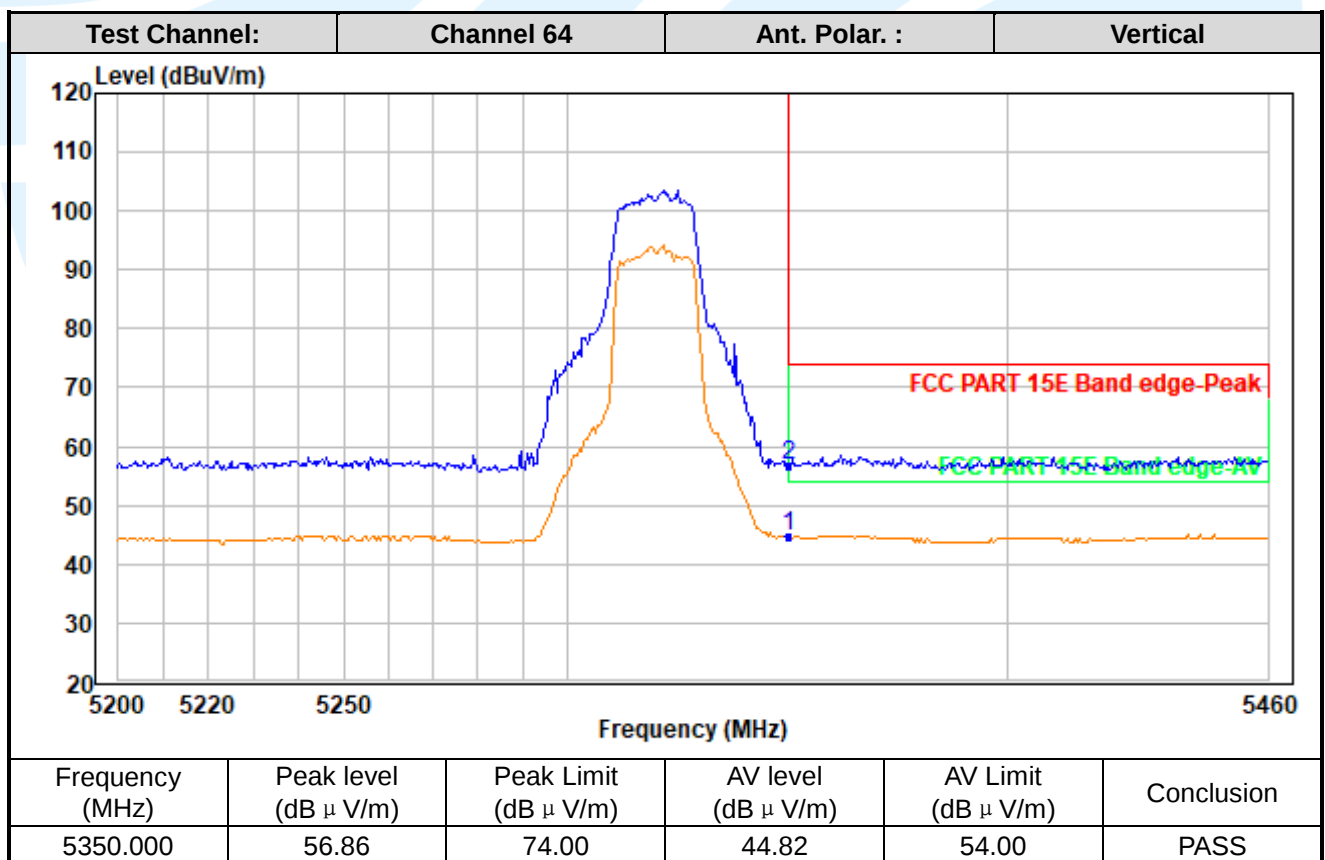
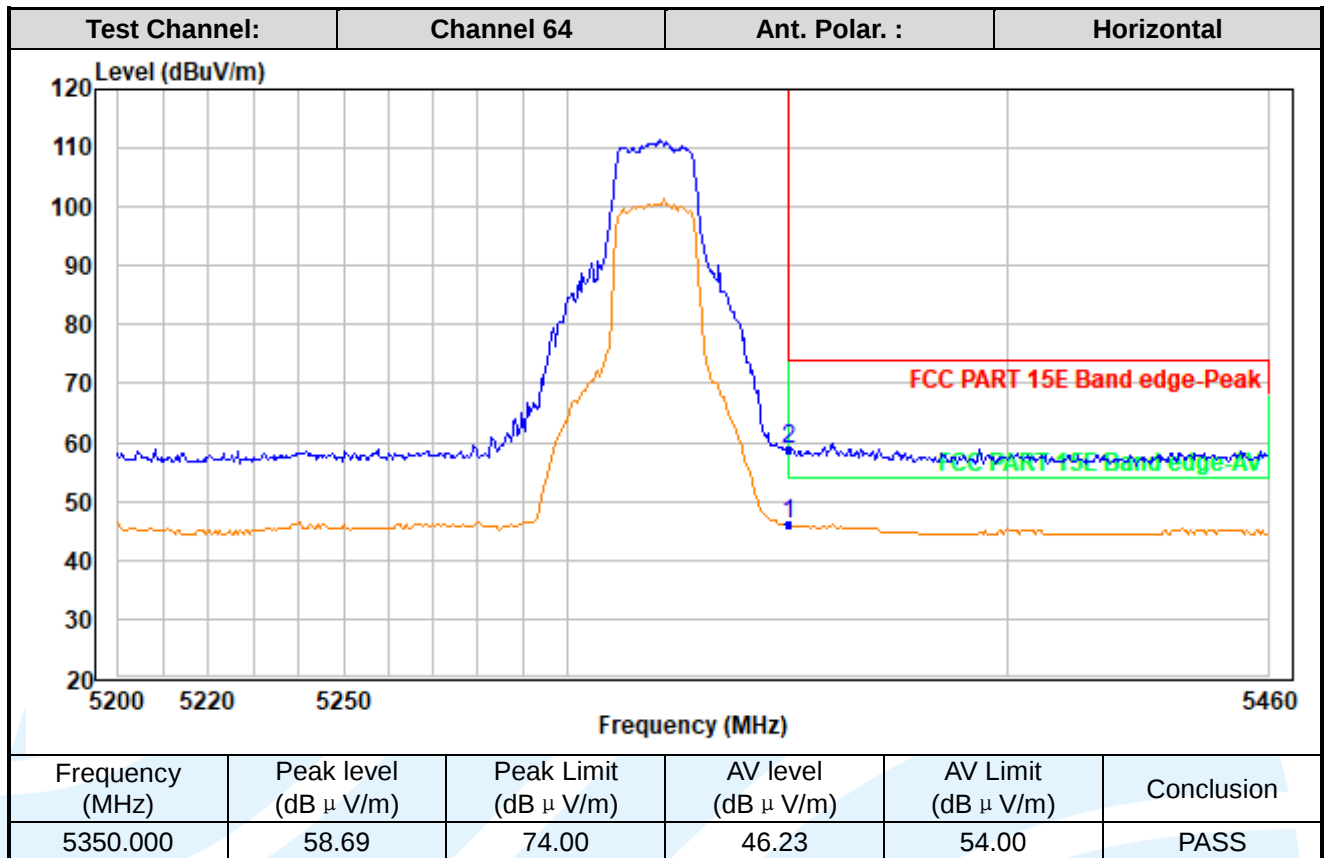
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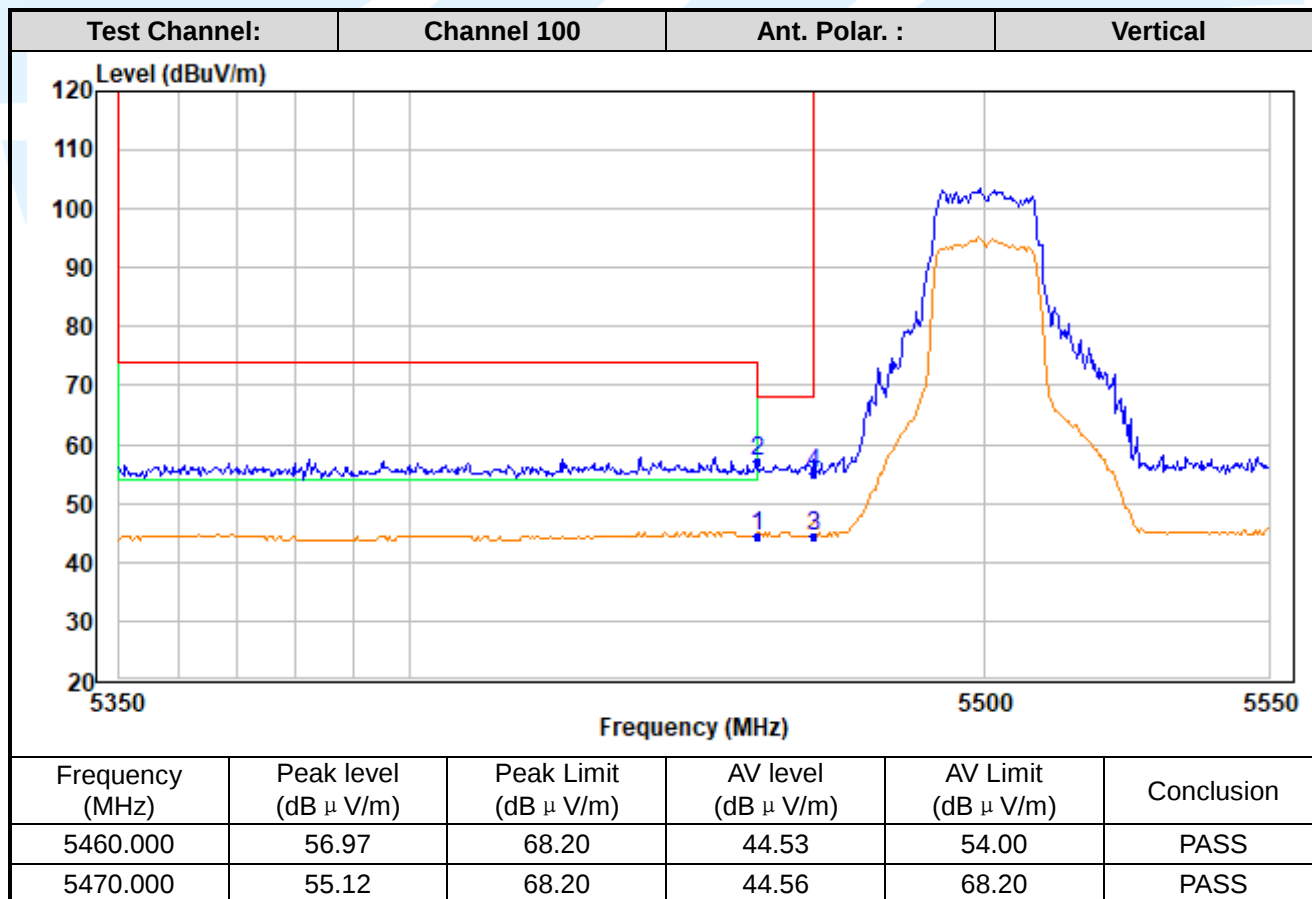
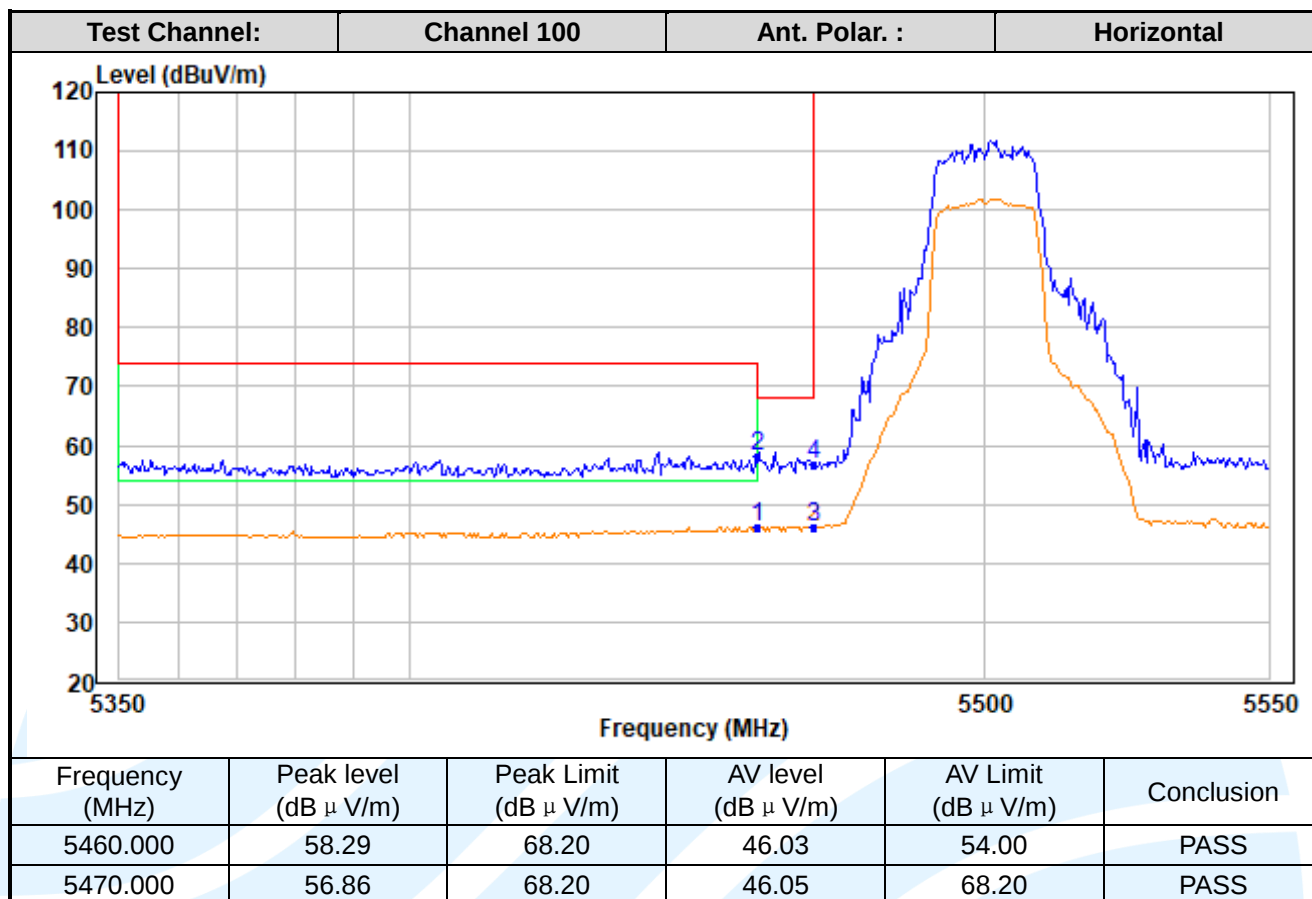
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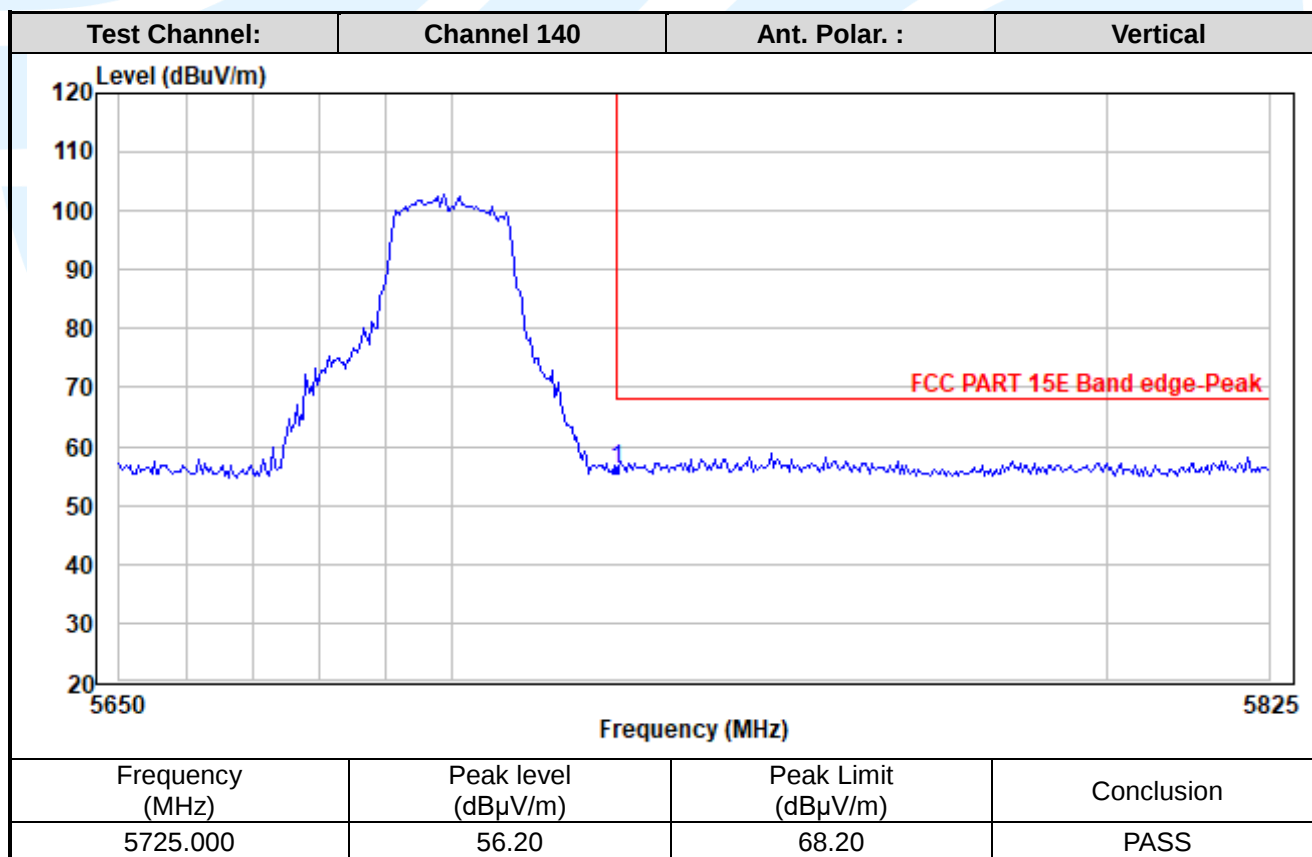
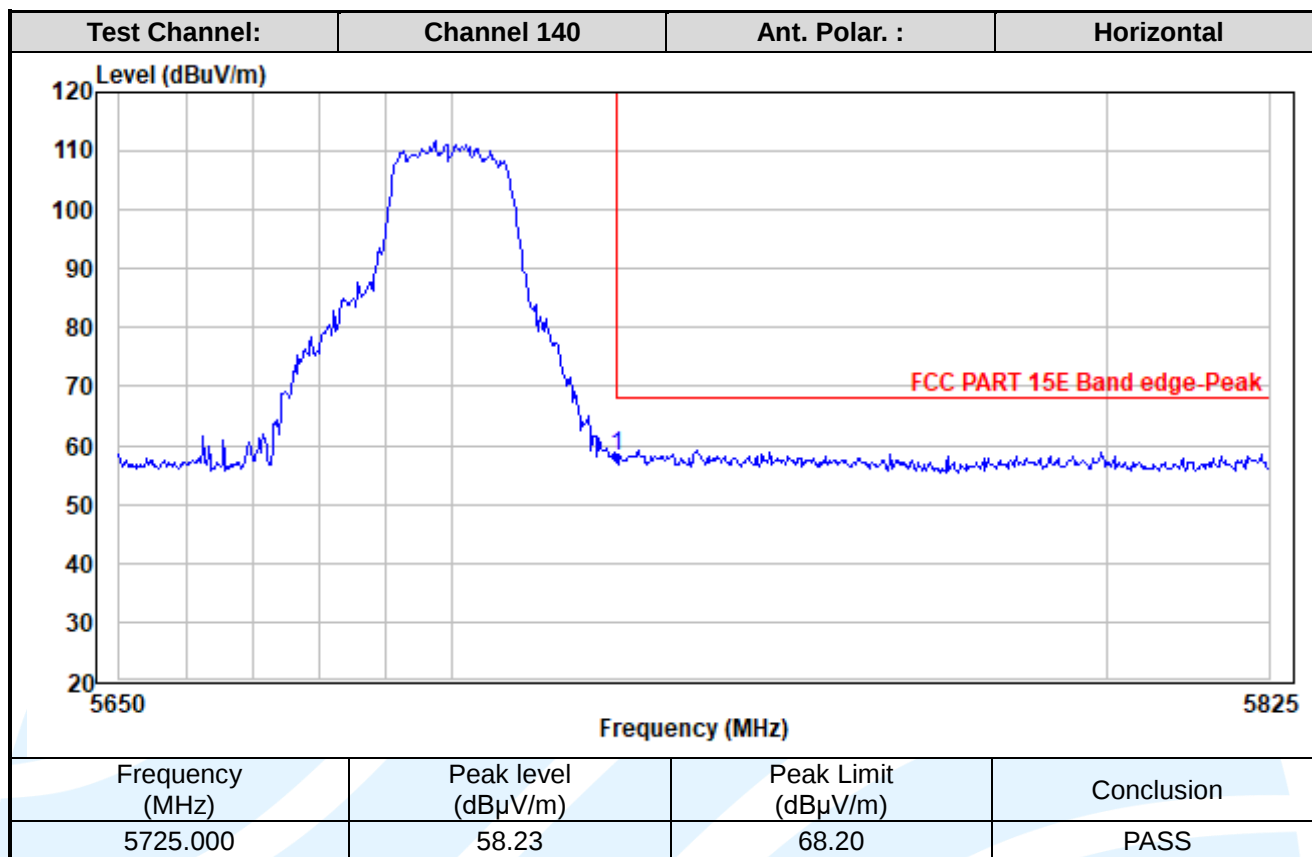
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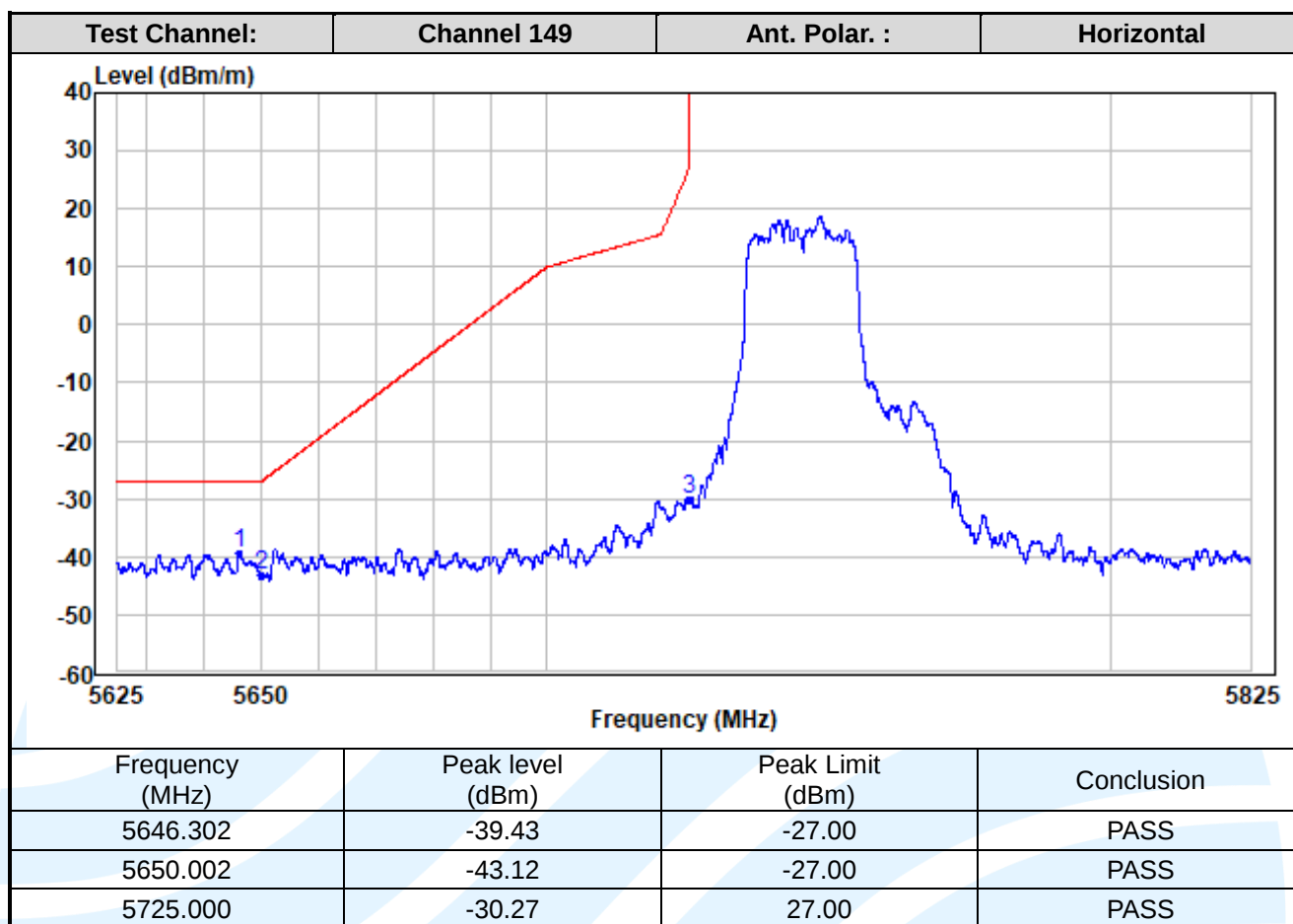
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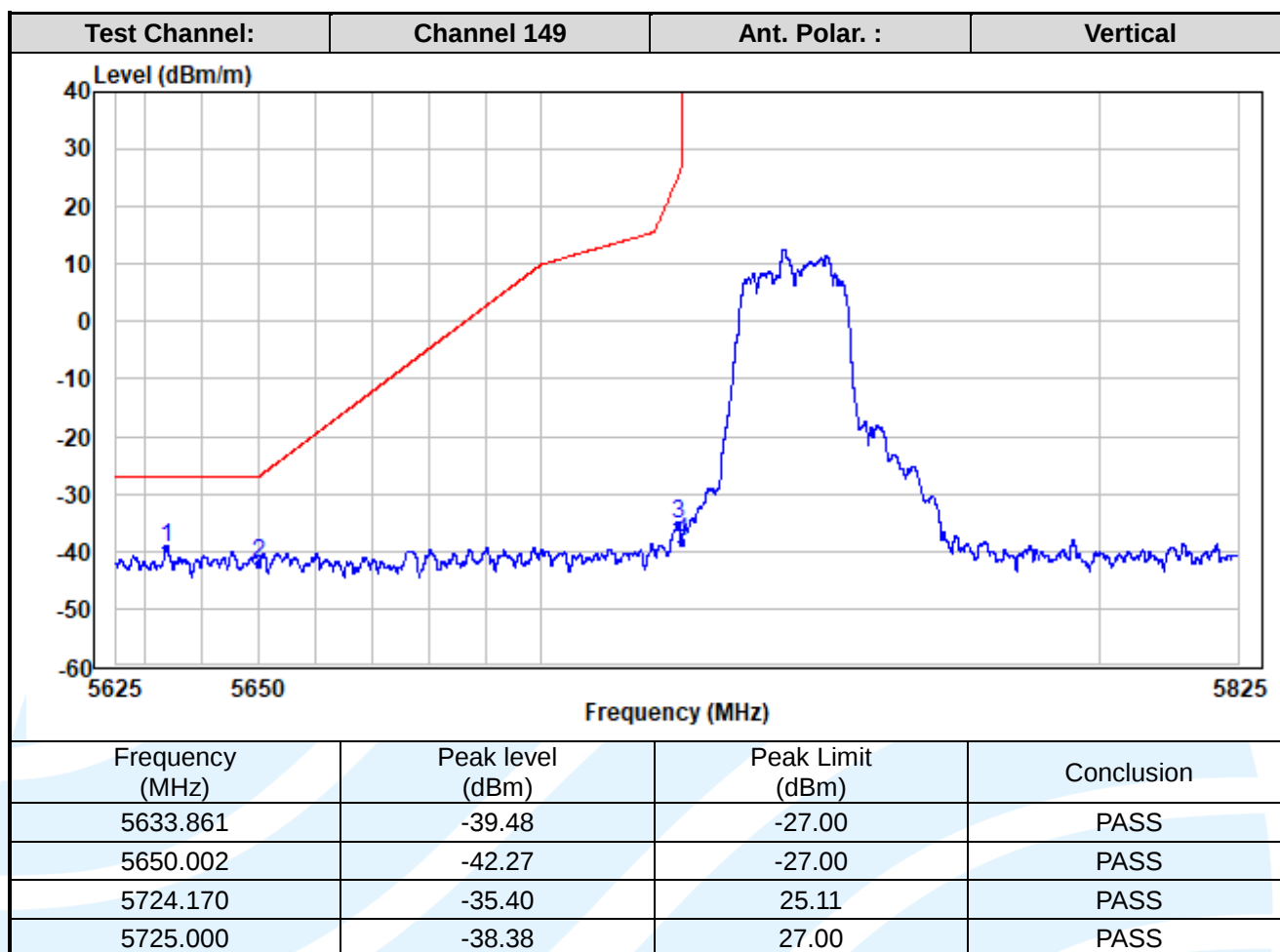
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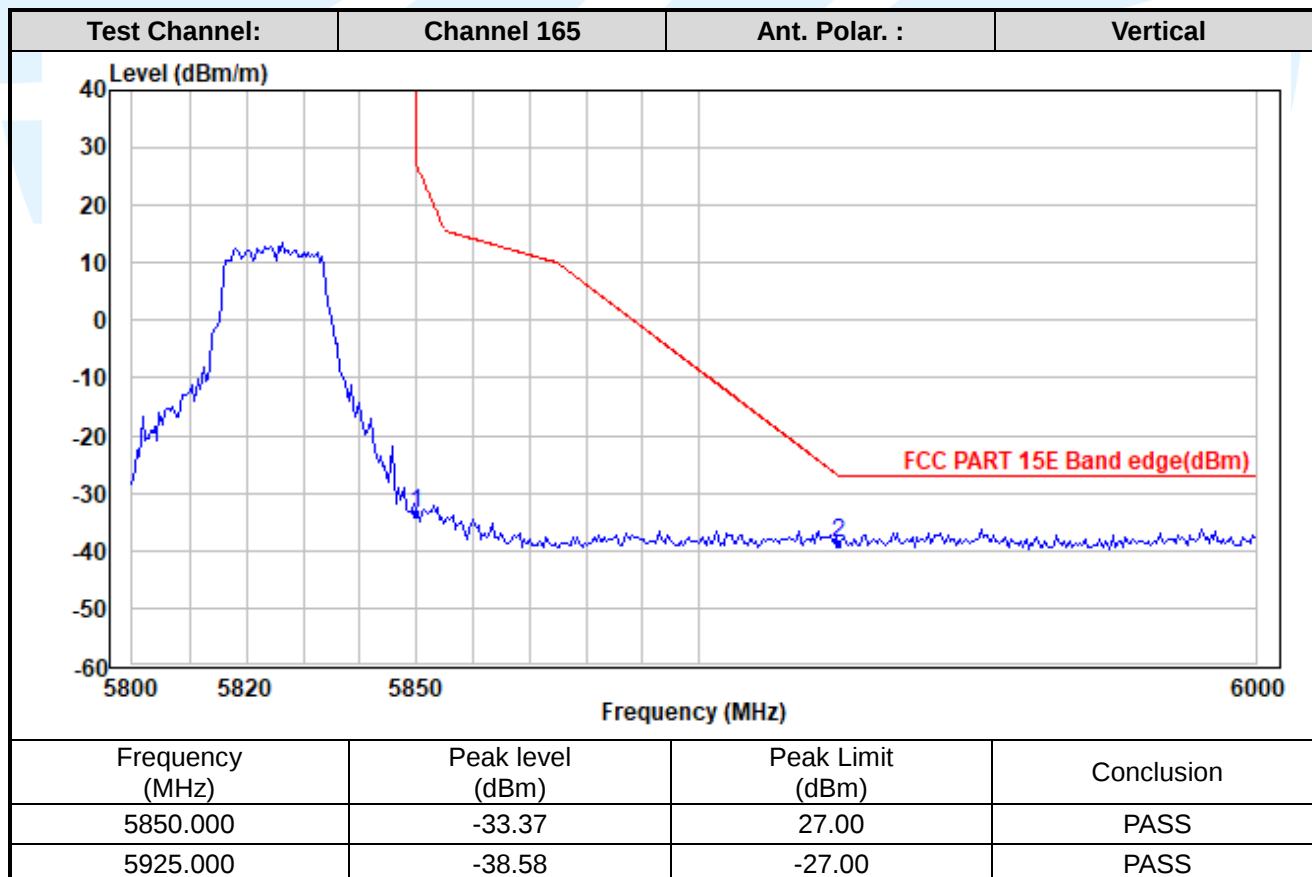
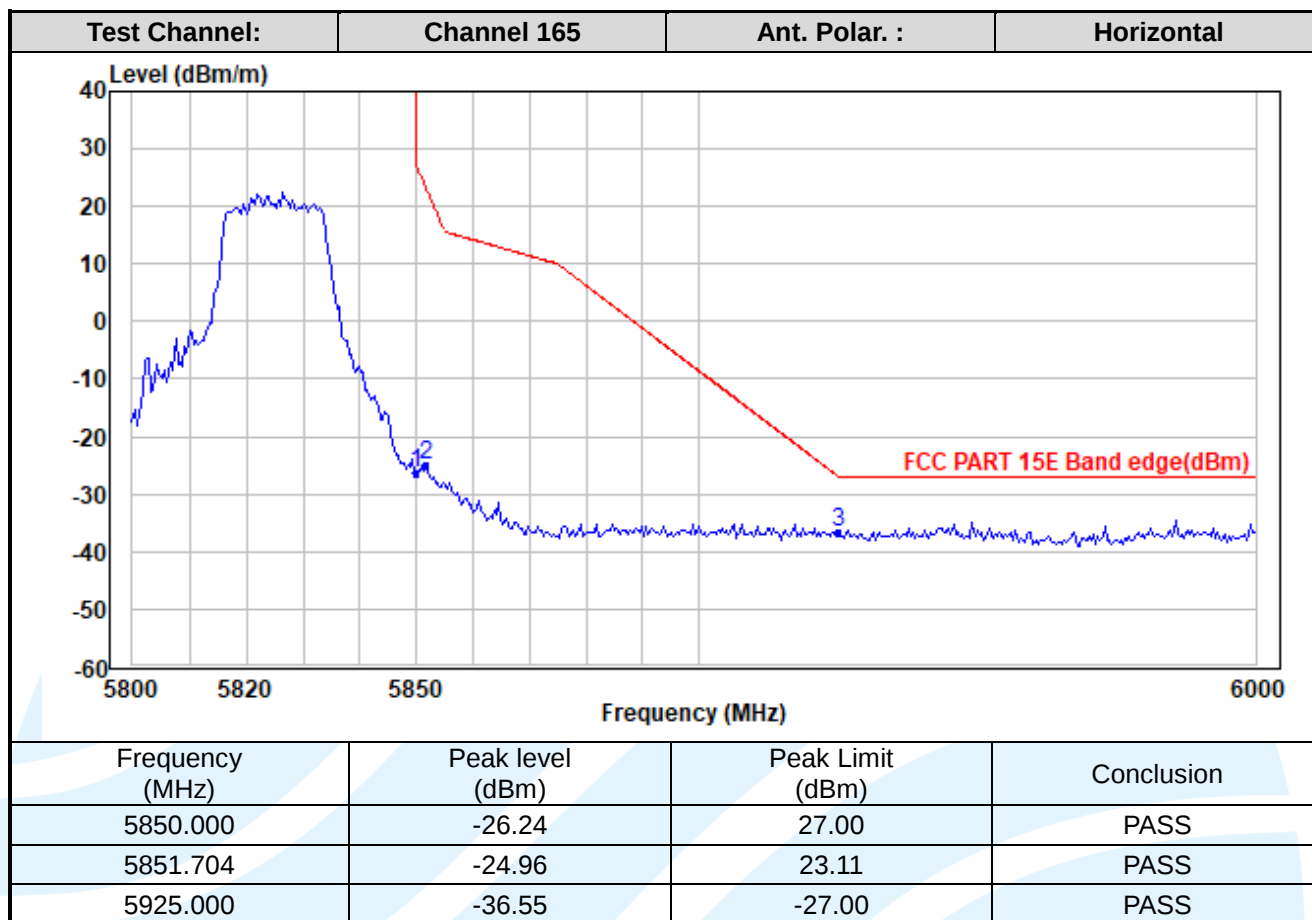
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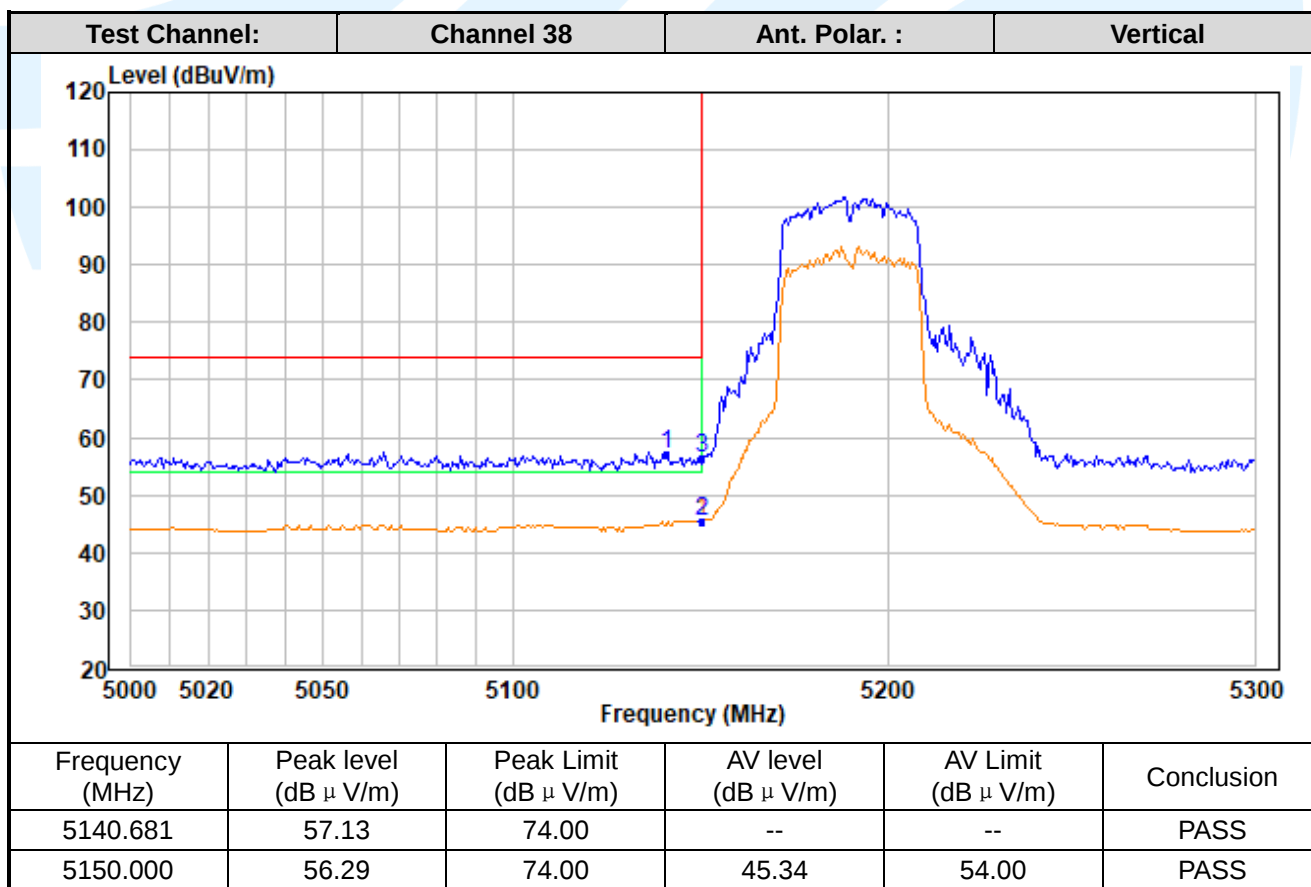
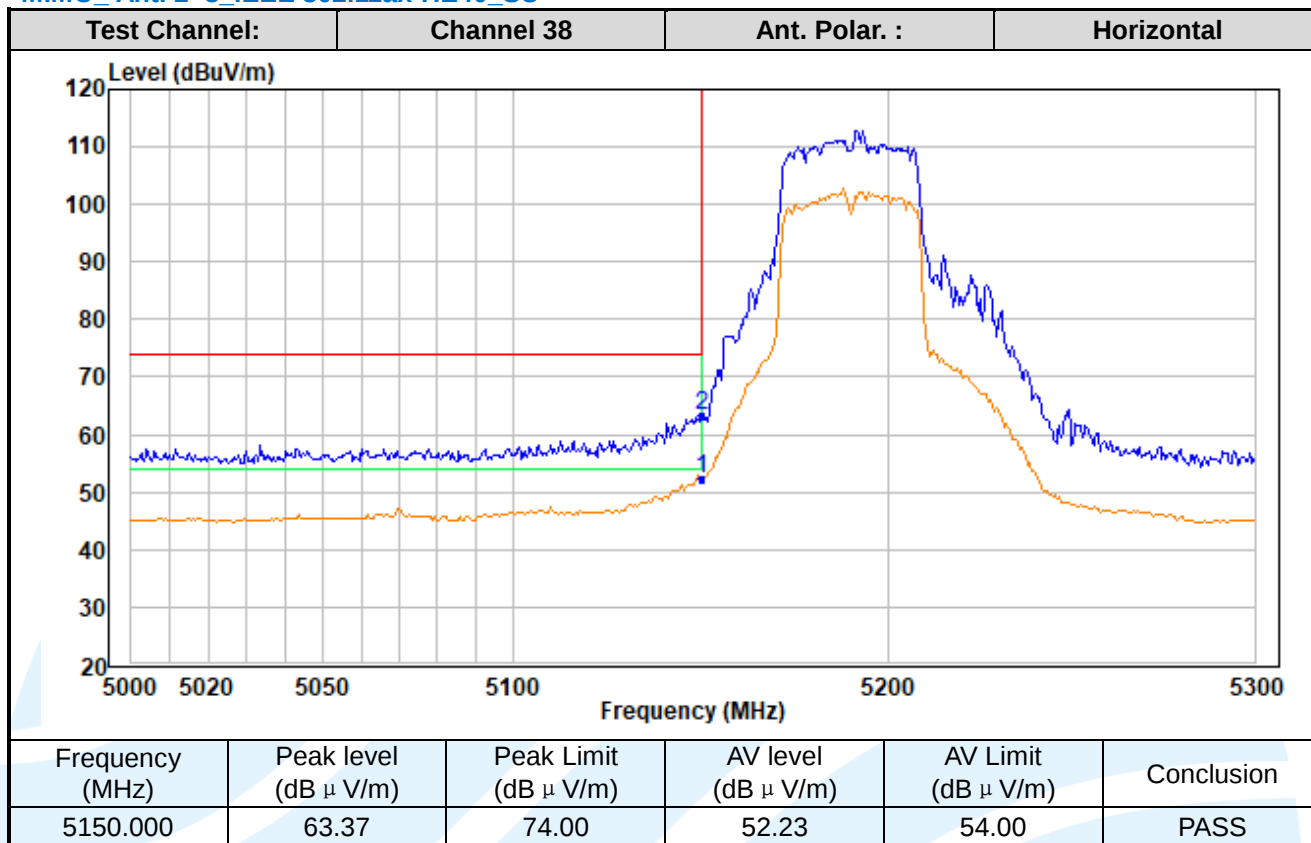
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MIMO_Ant. 2+3_ IEEE 802.11ax-HE40_SU



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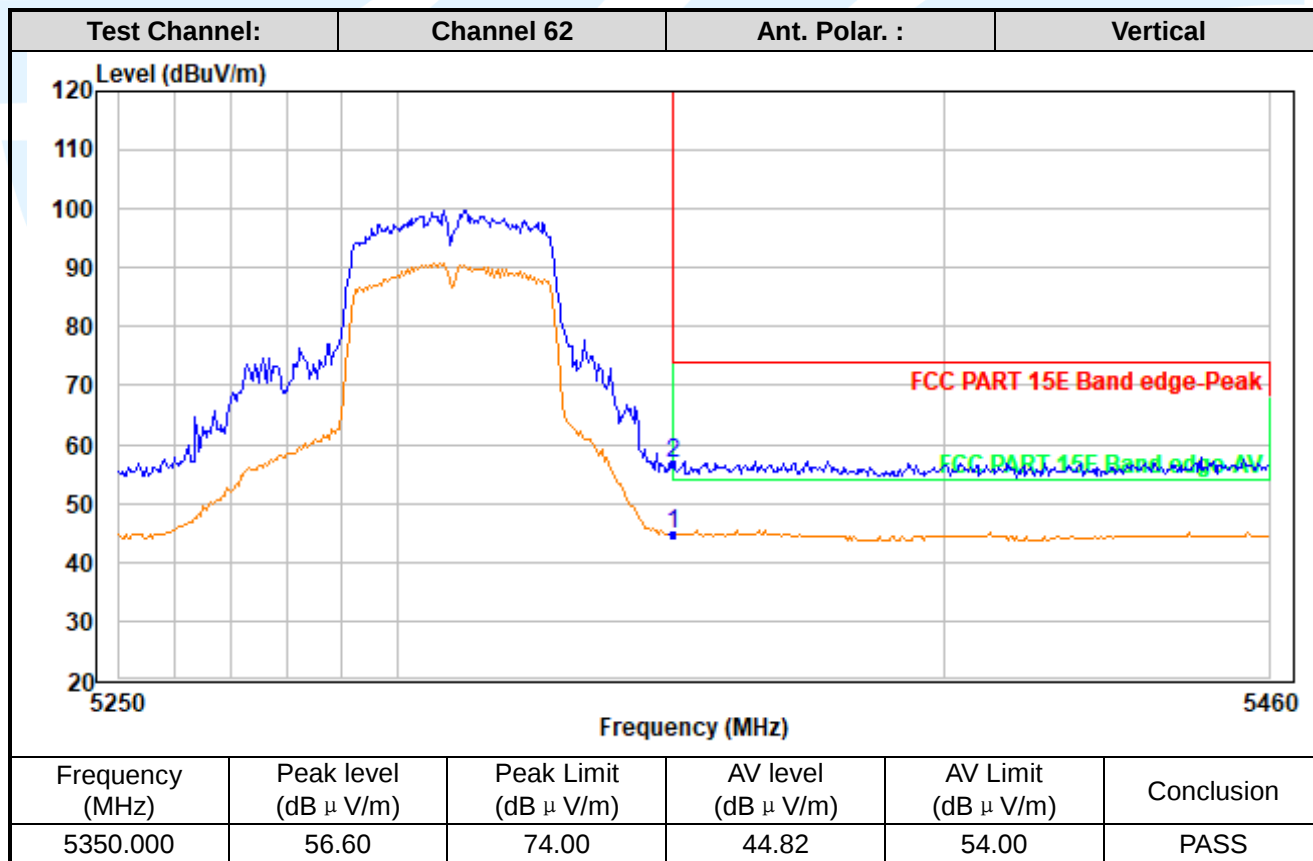
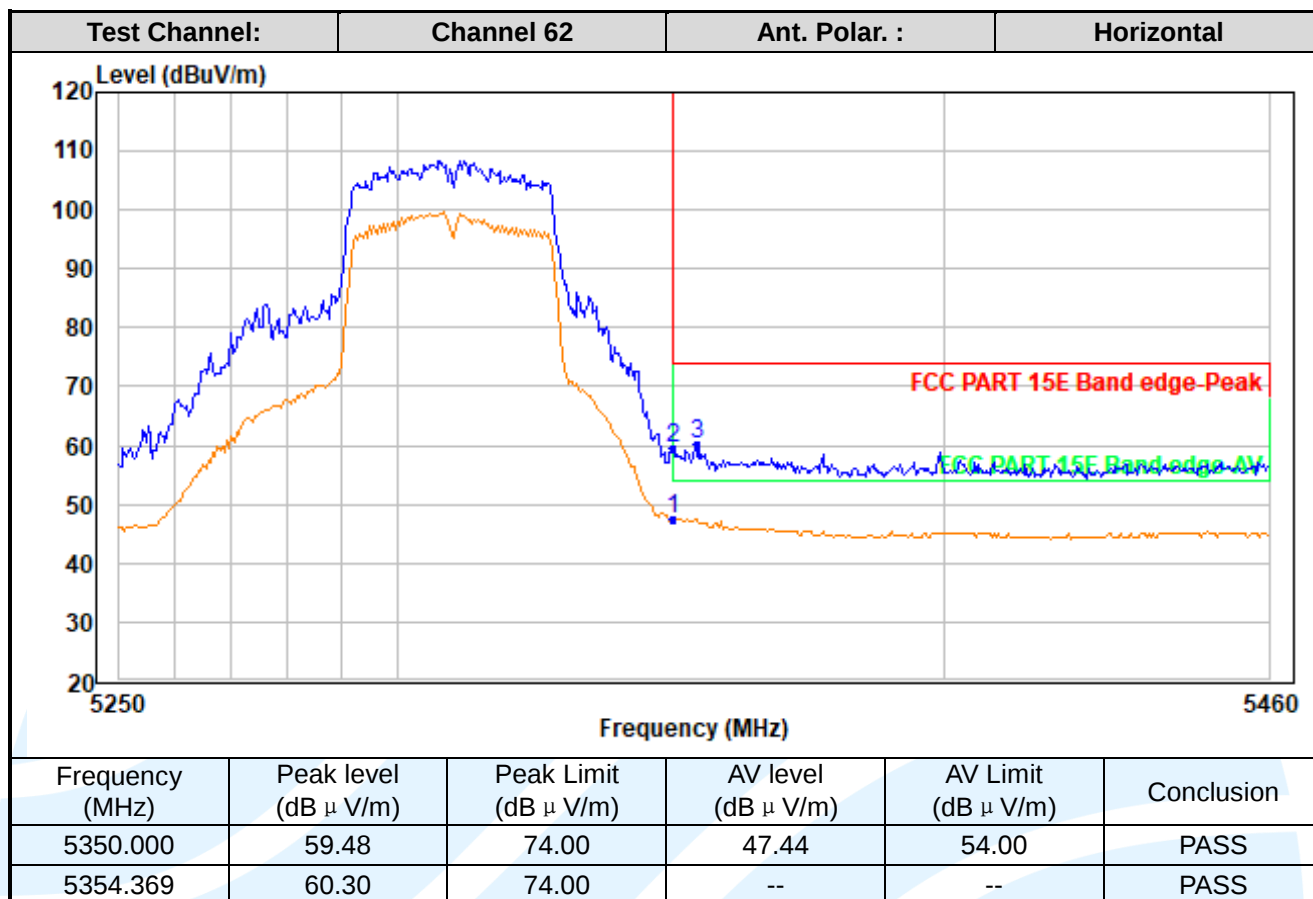
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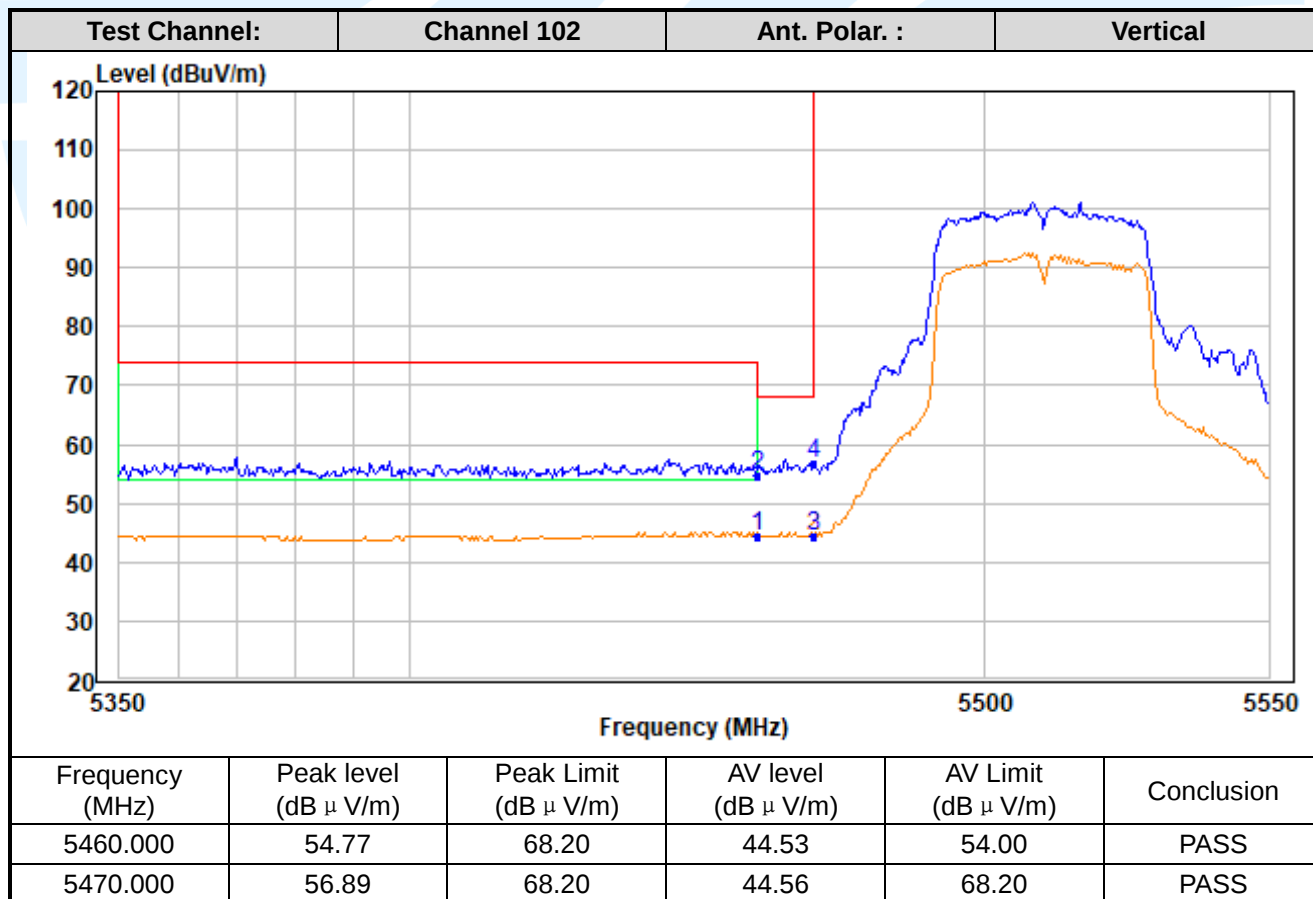
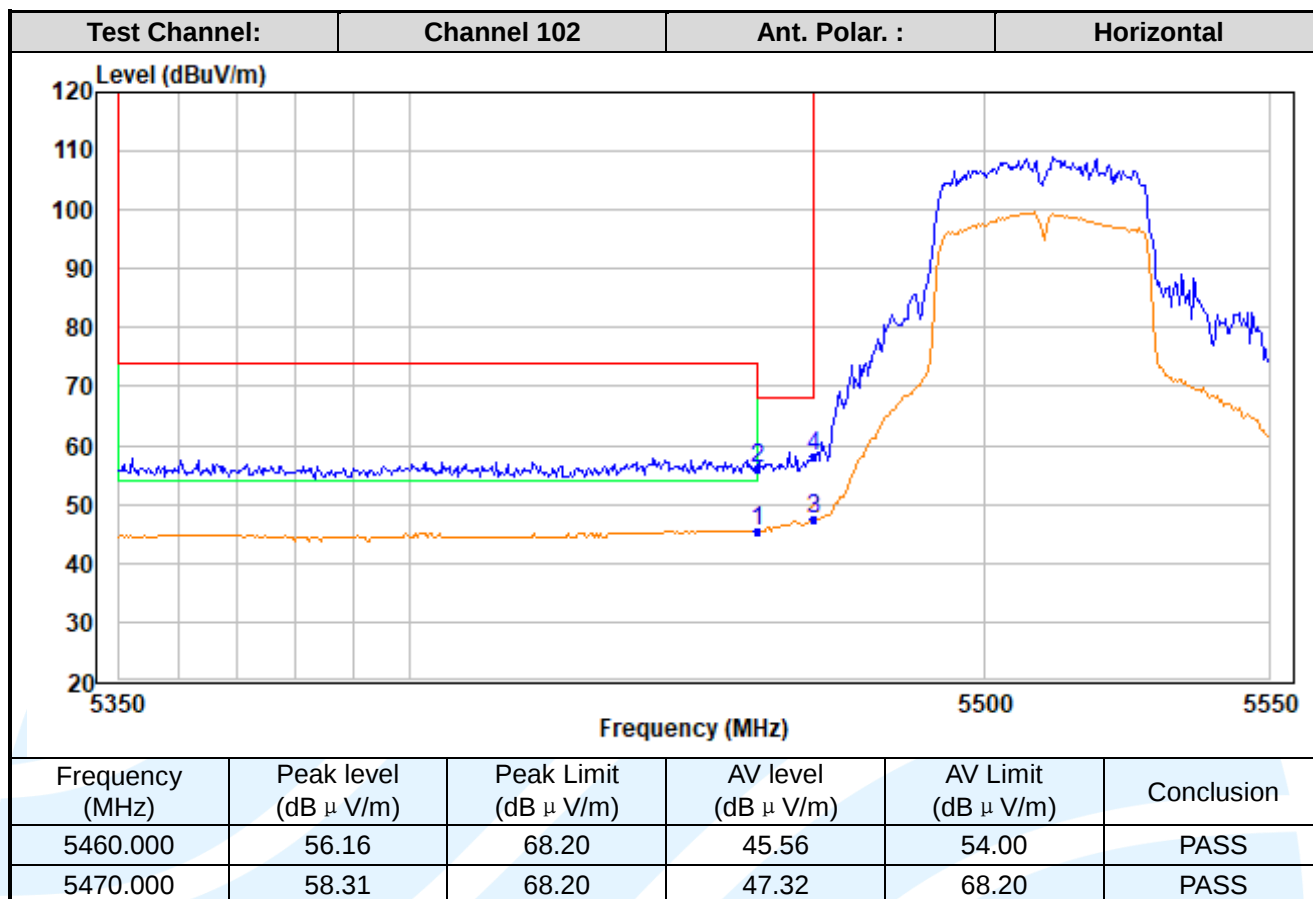
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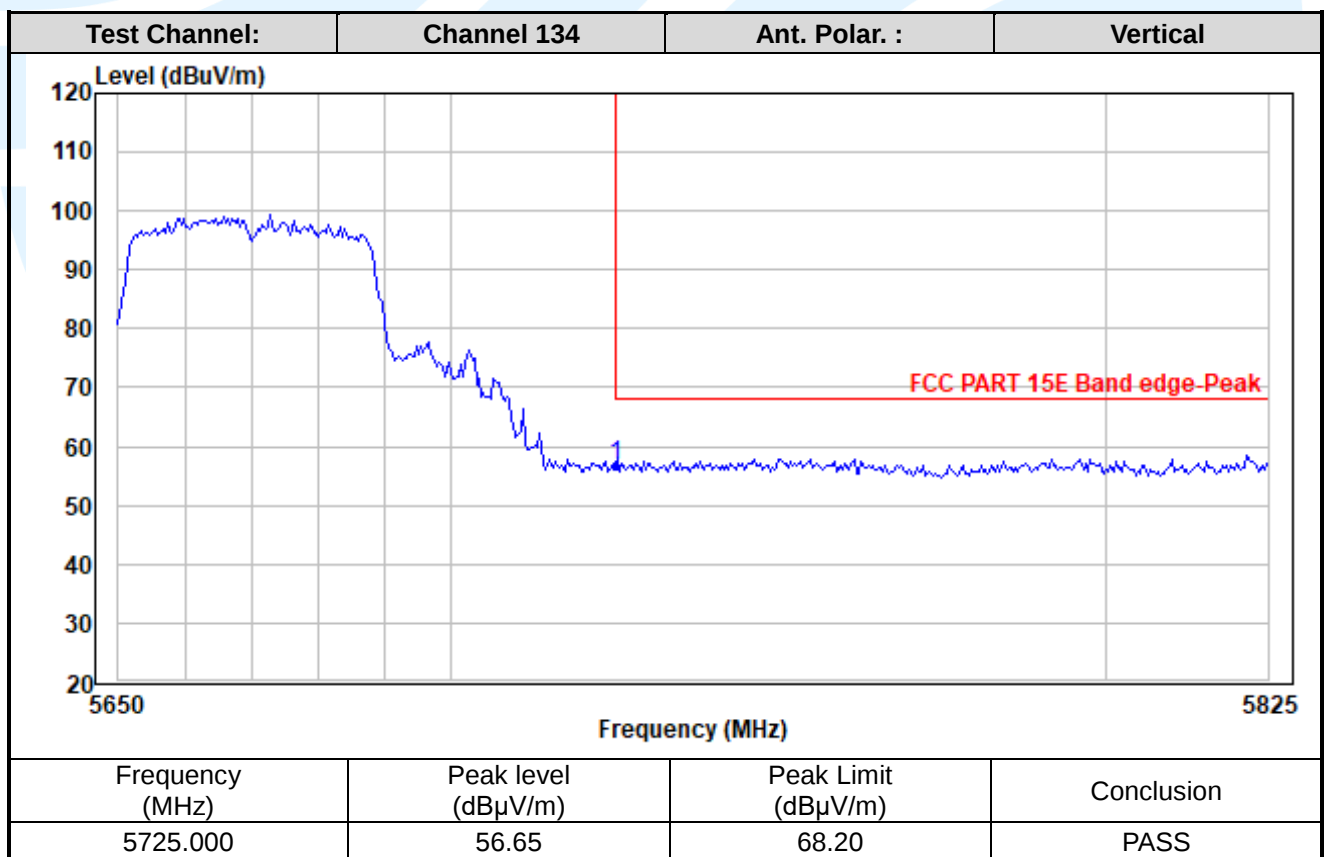
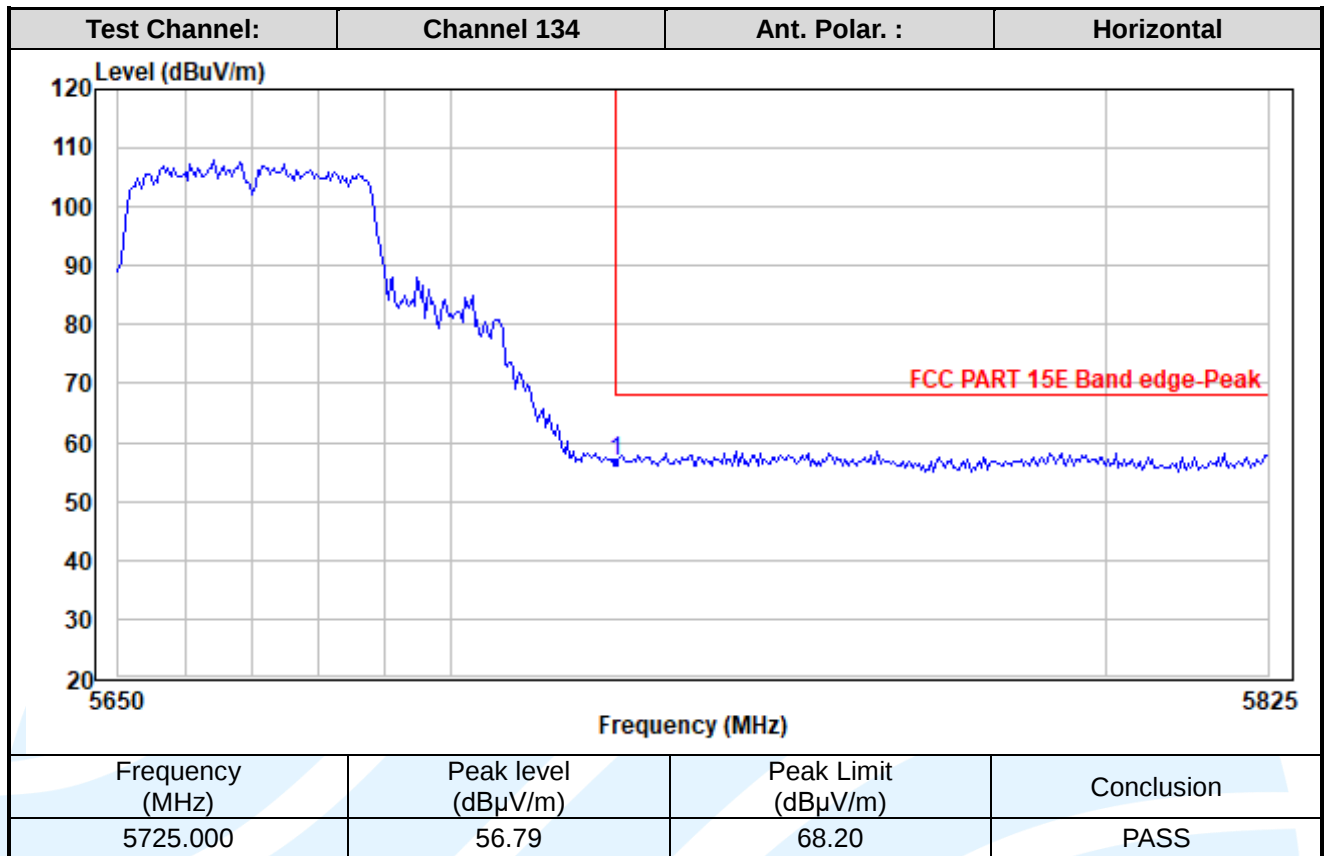
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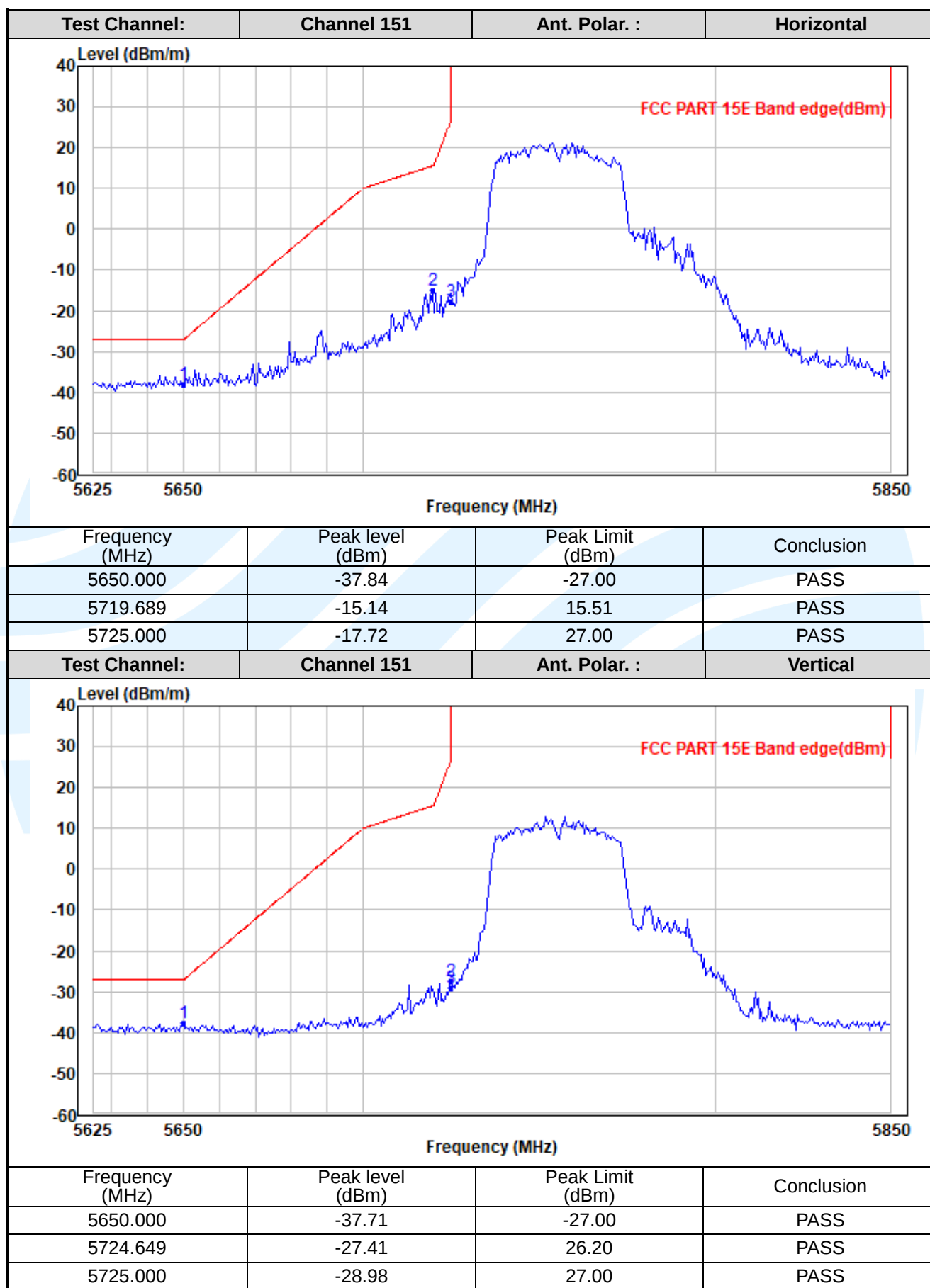
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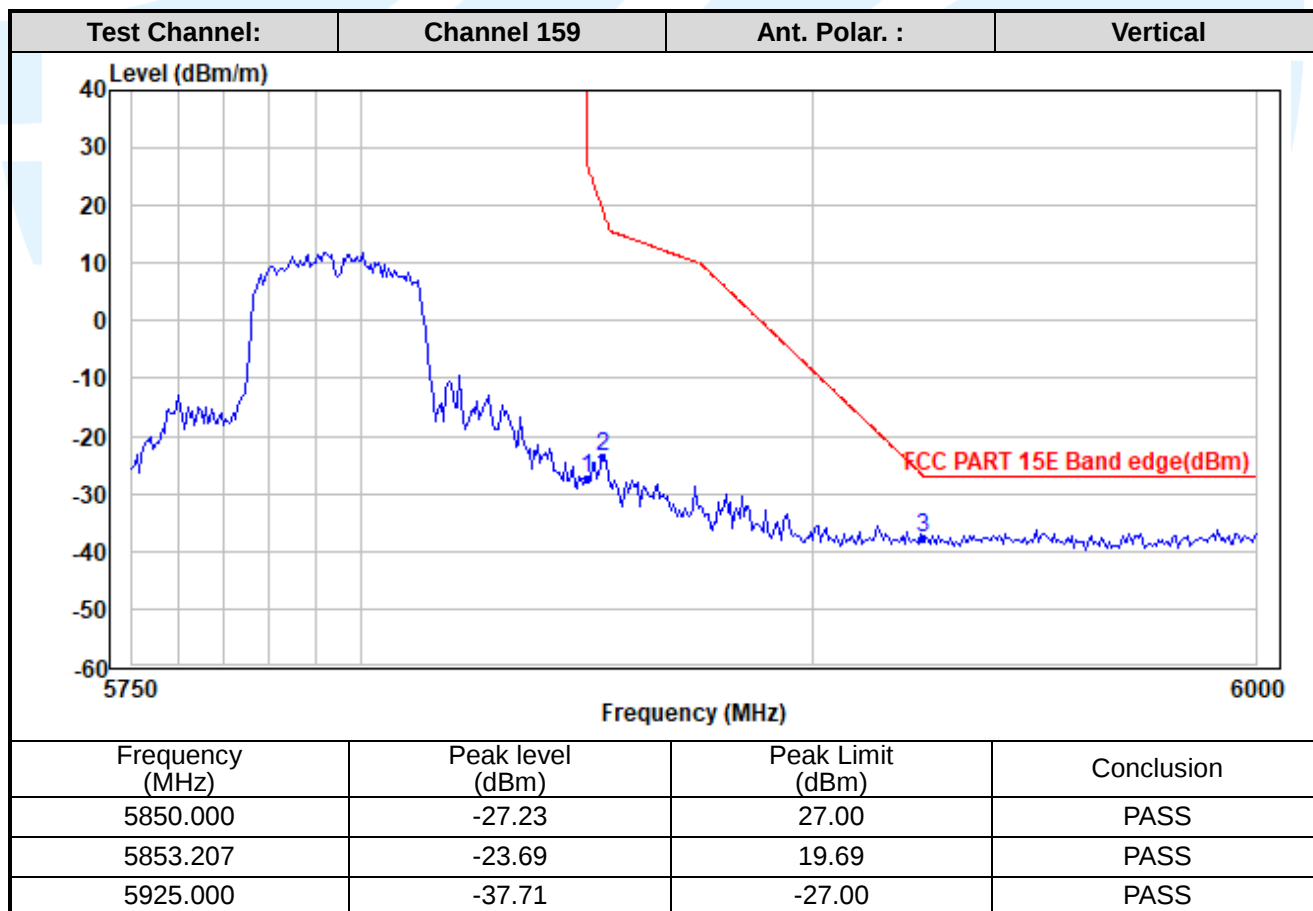
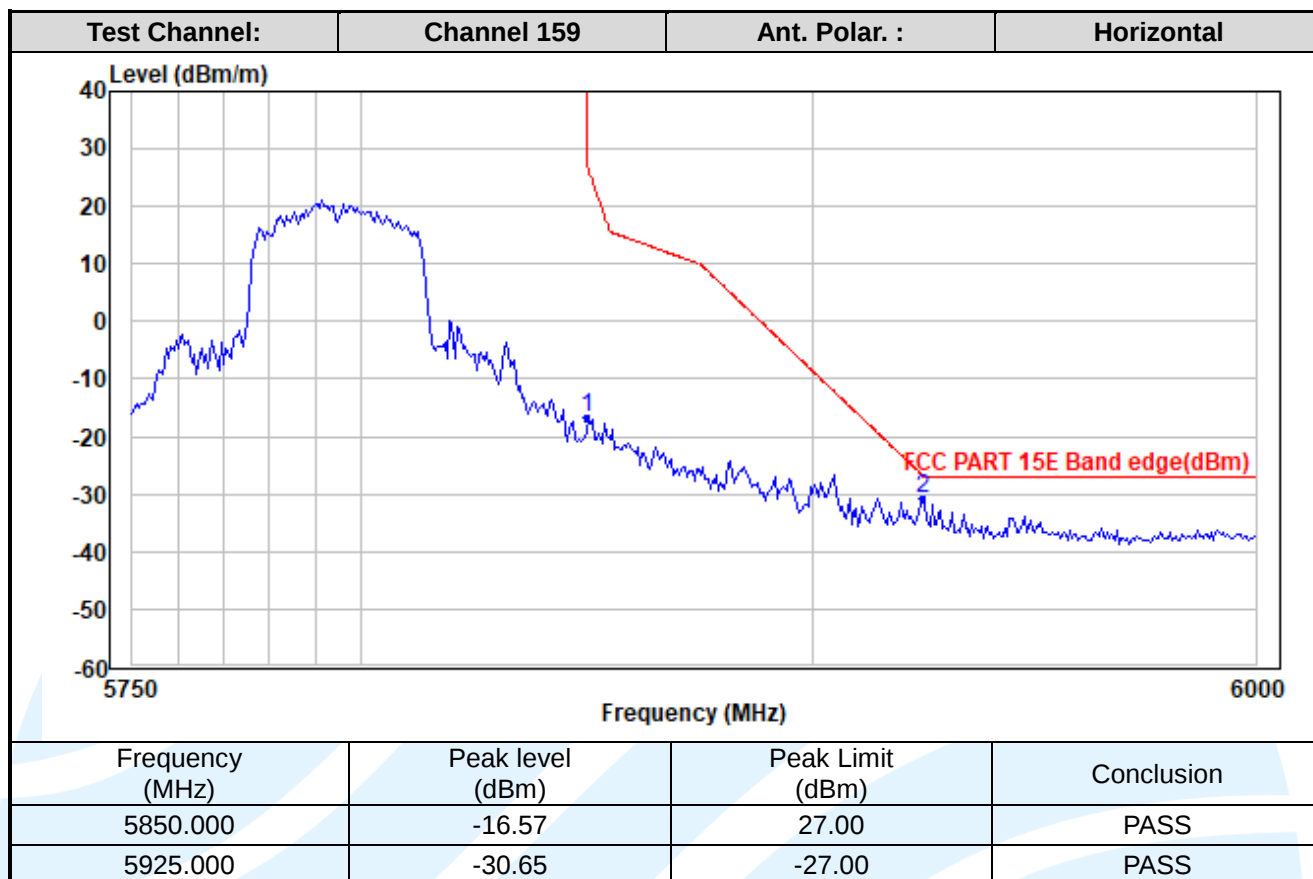
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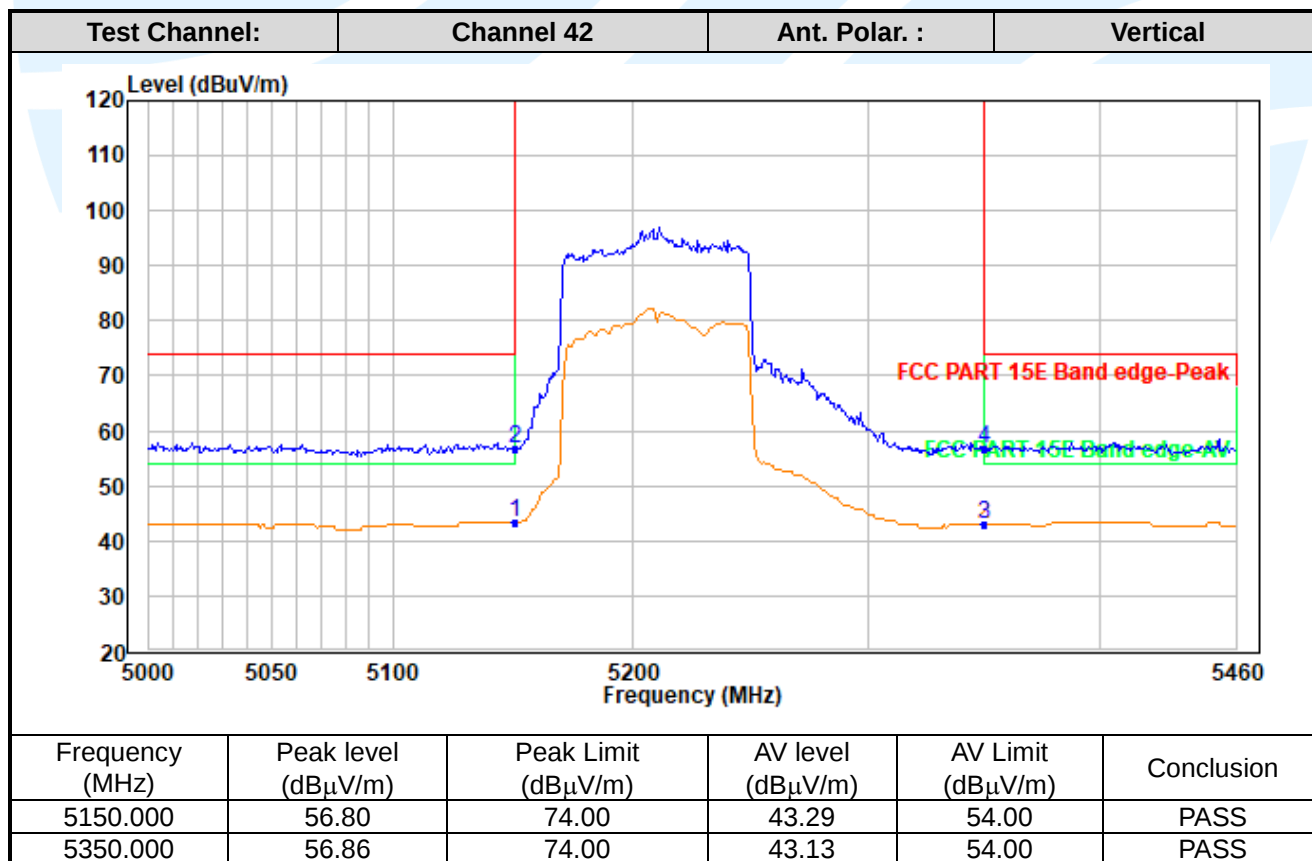
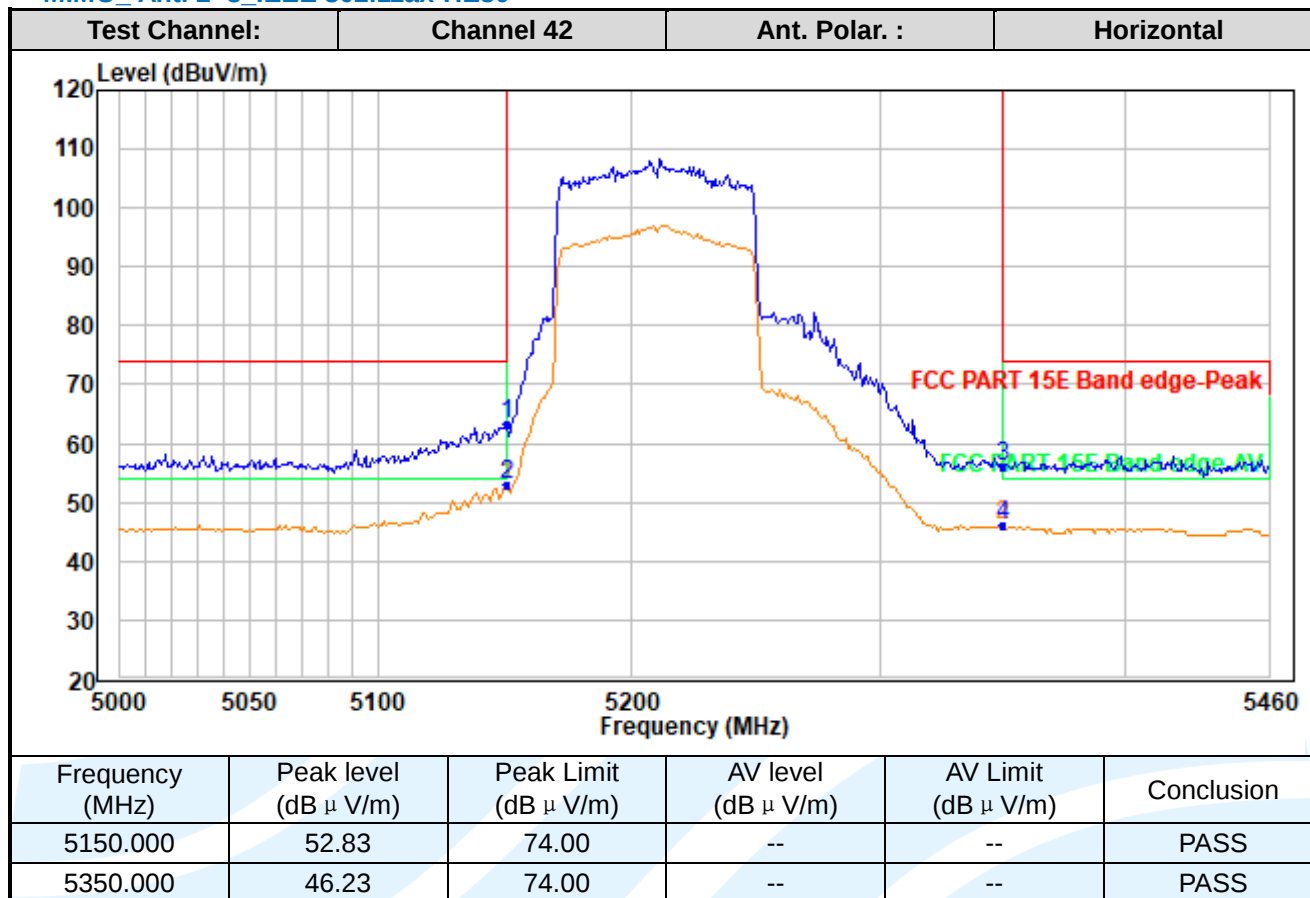
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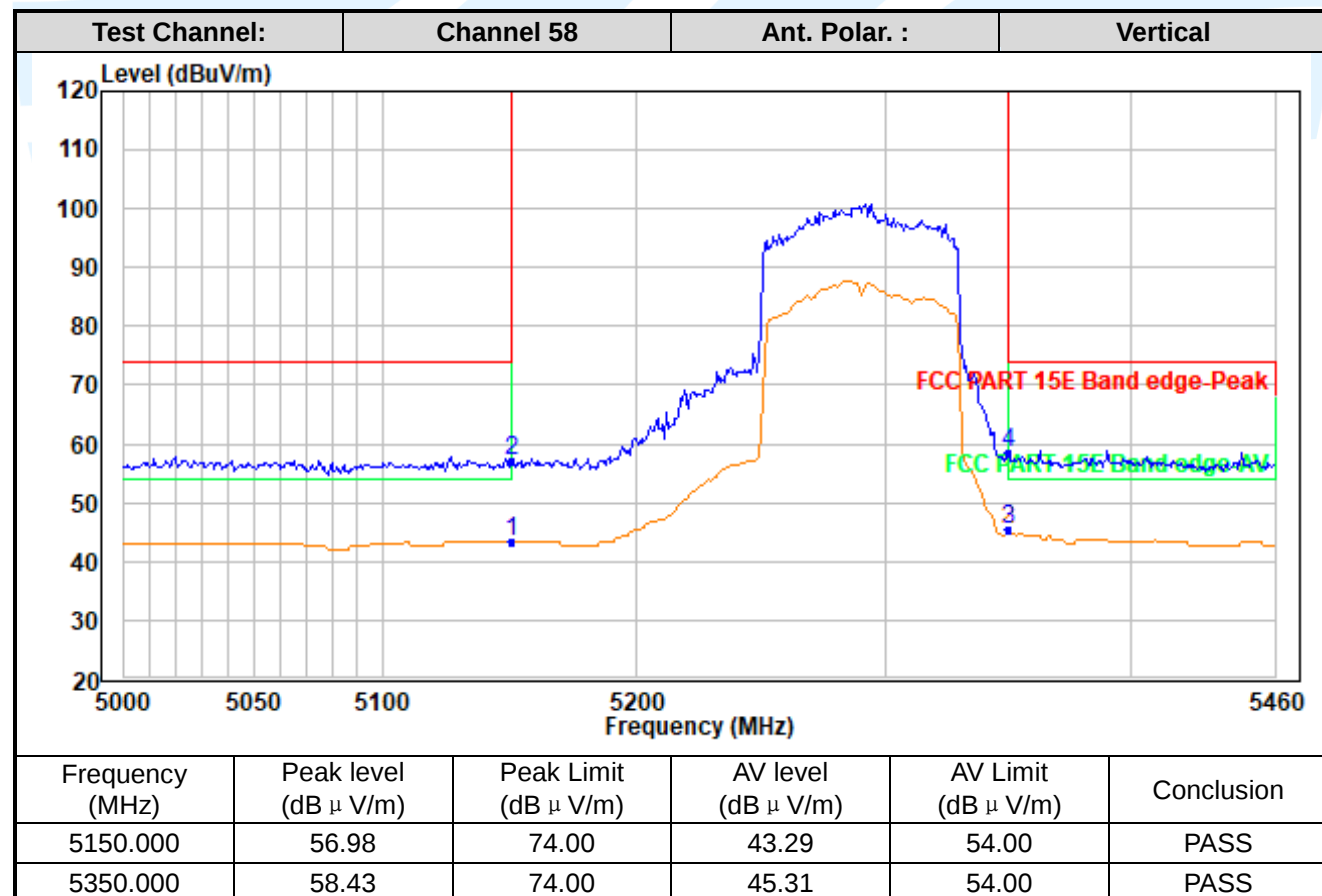
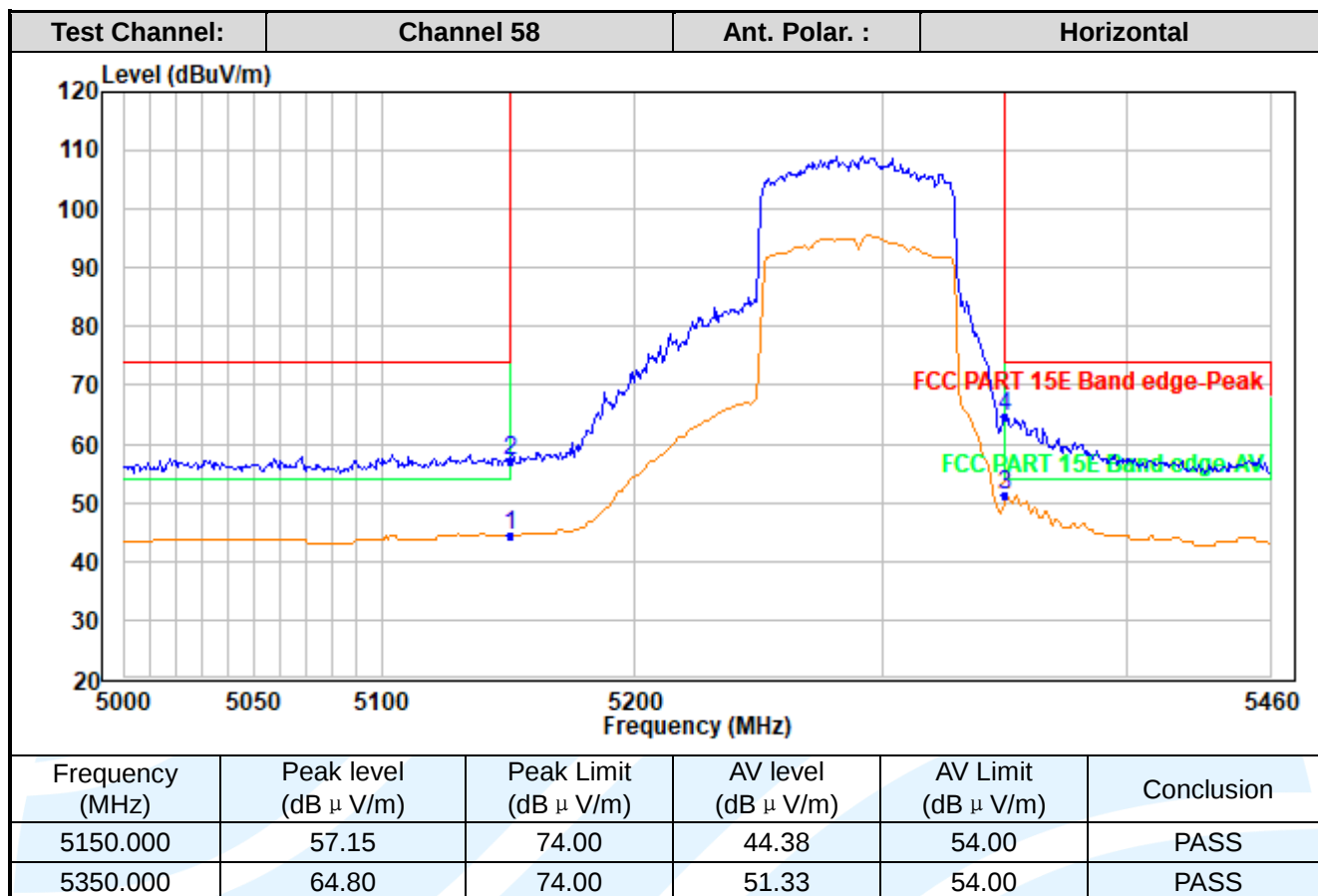
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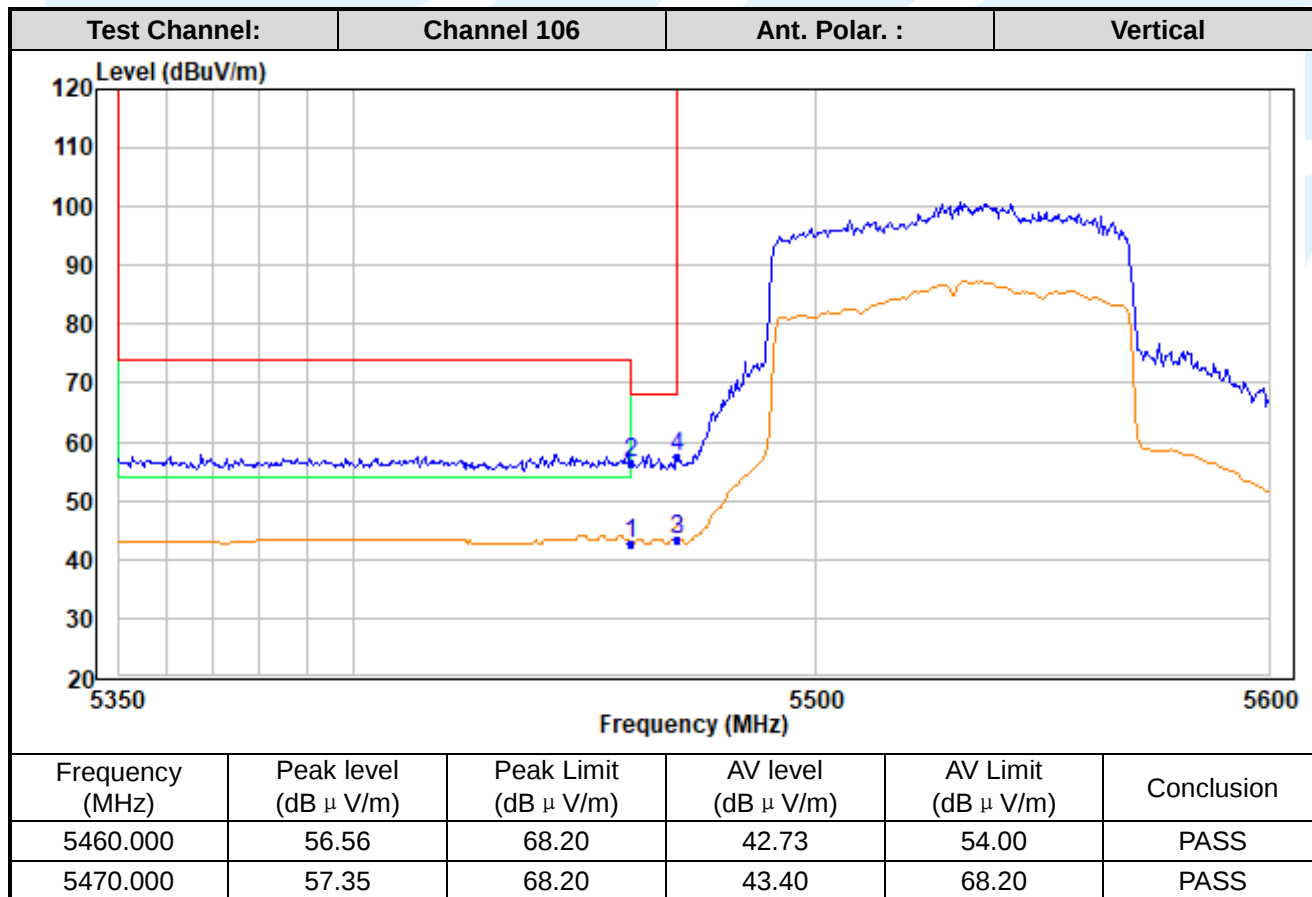
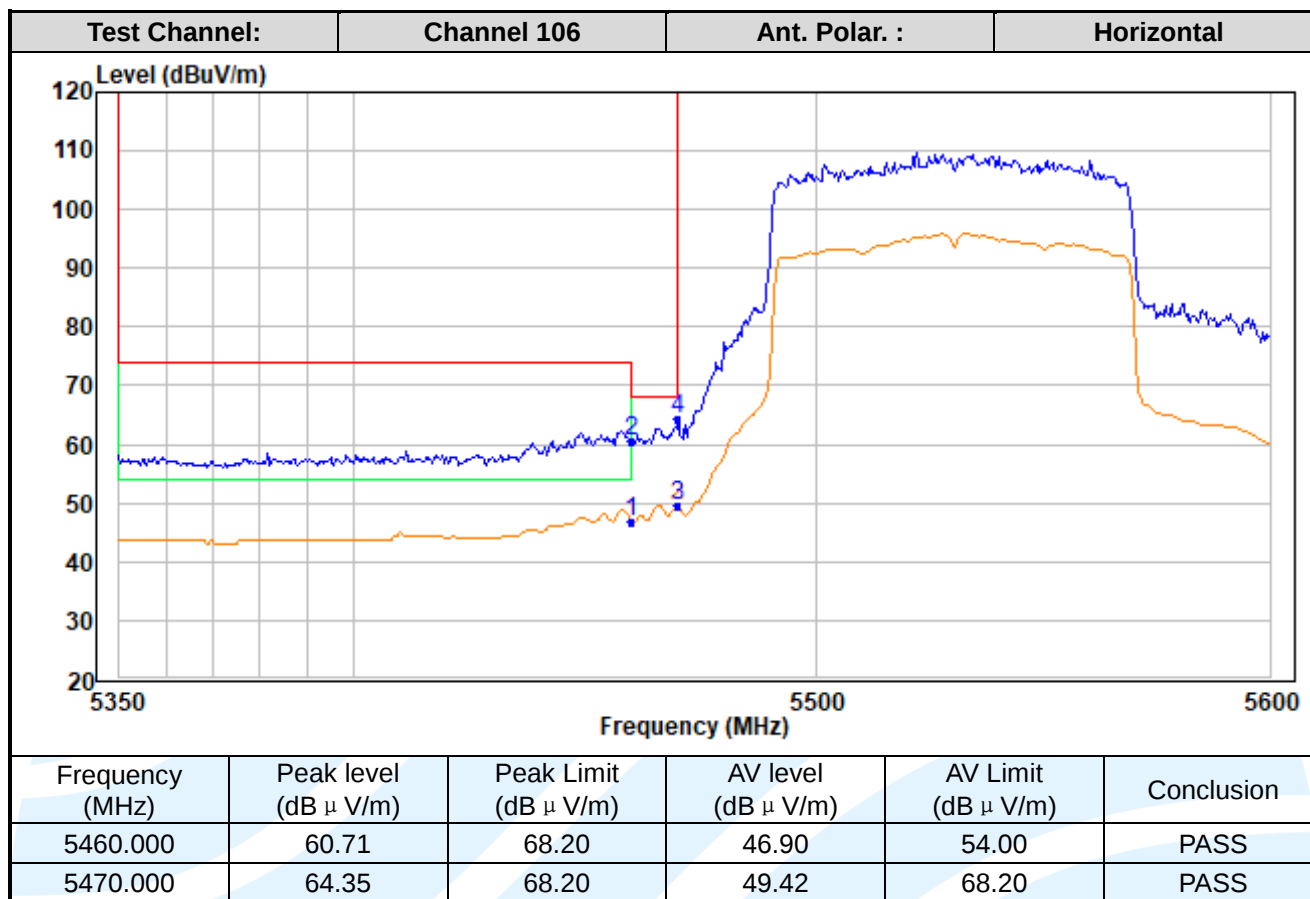
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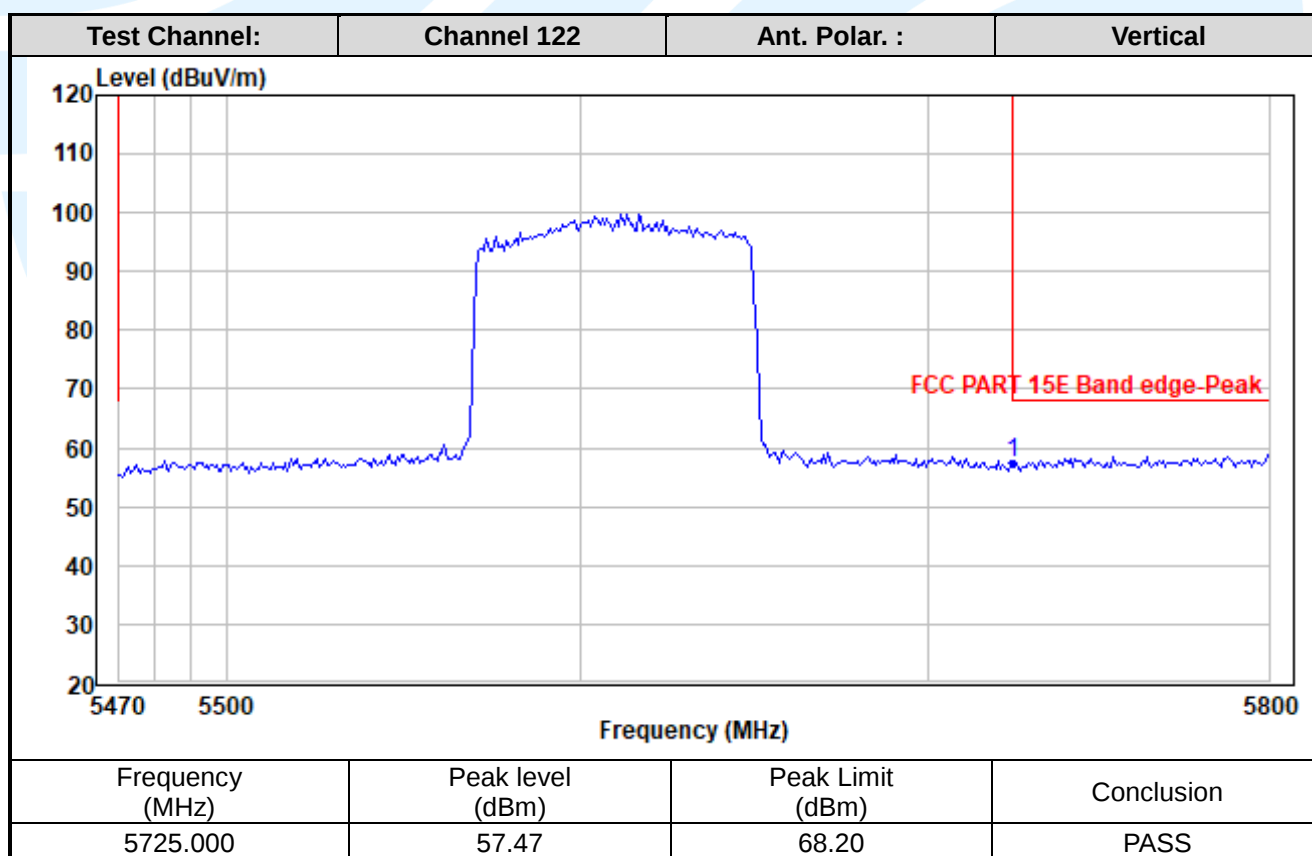
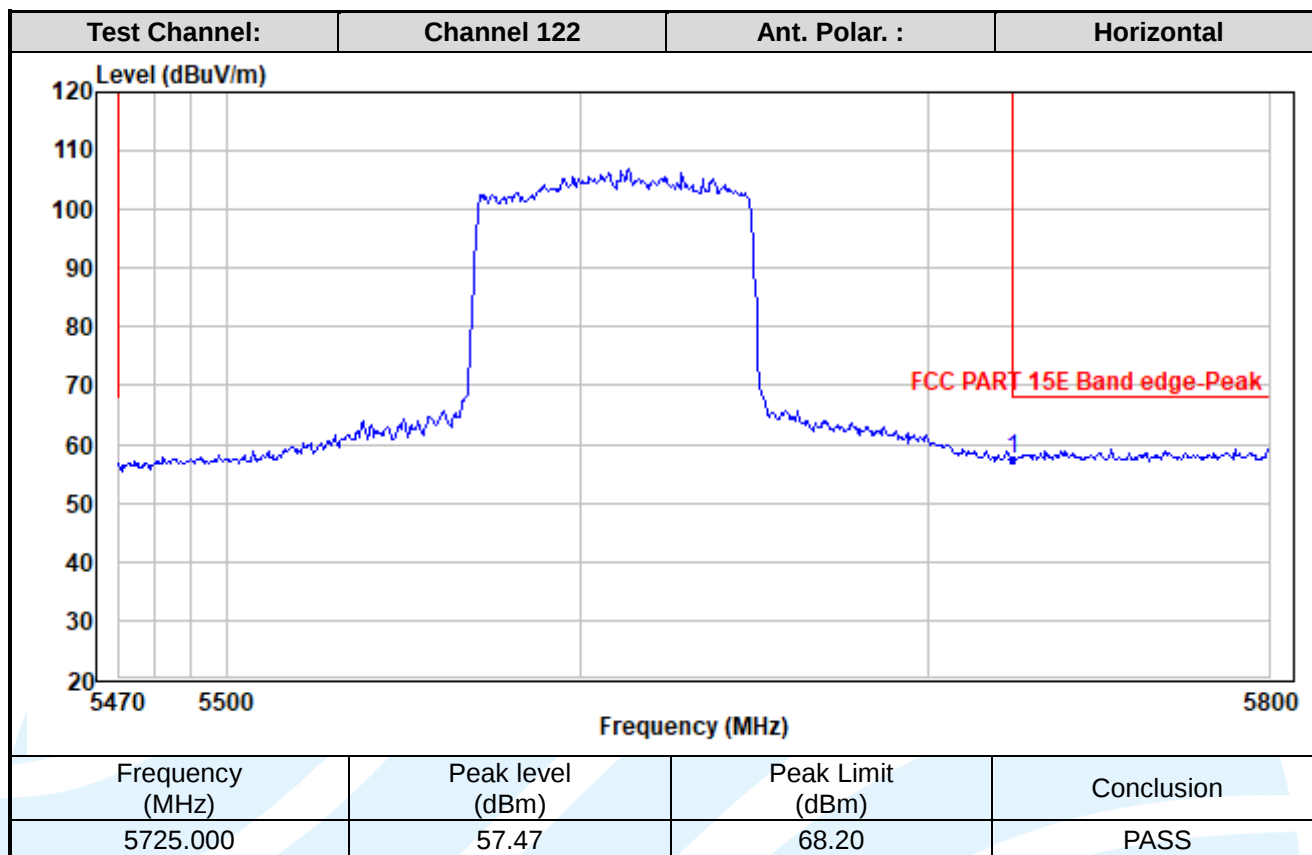
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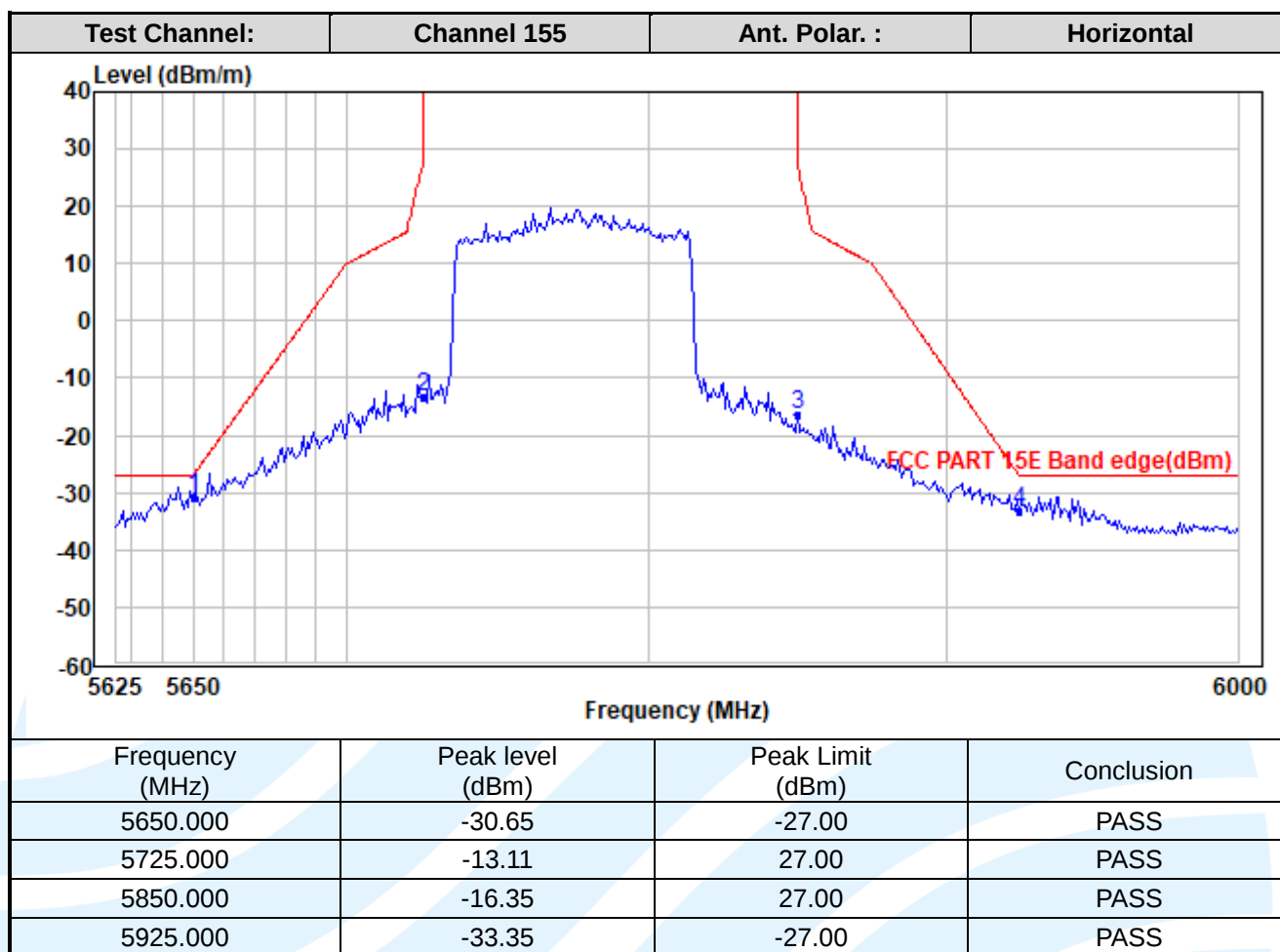
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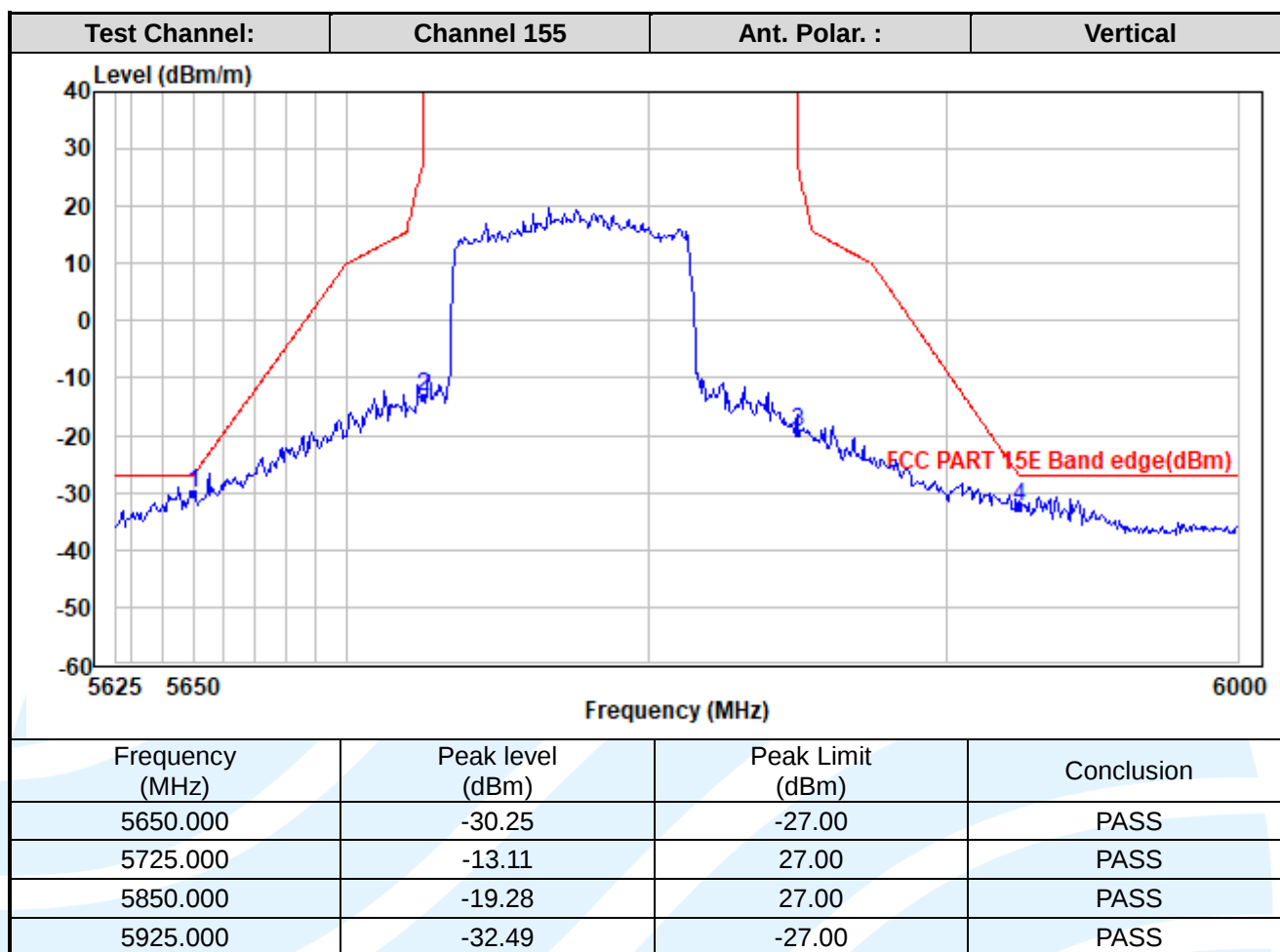
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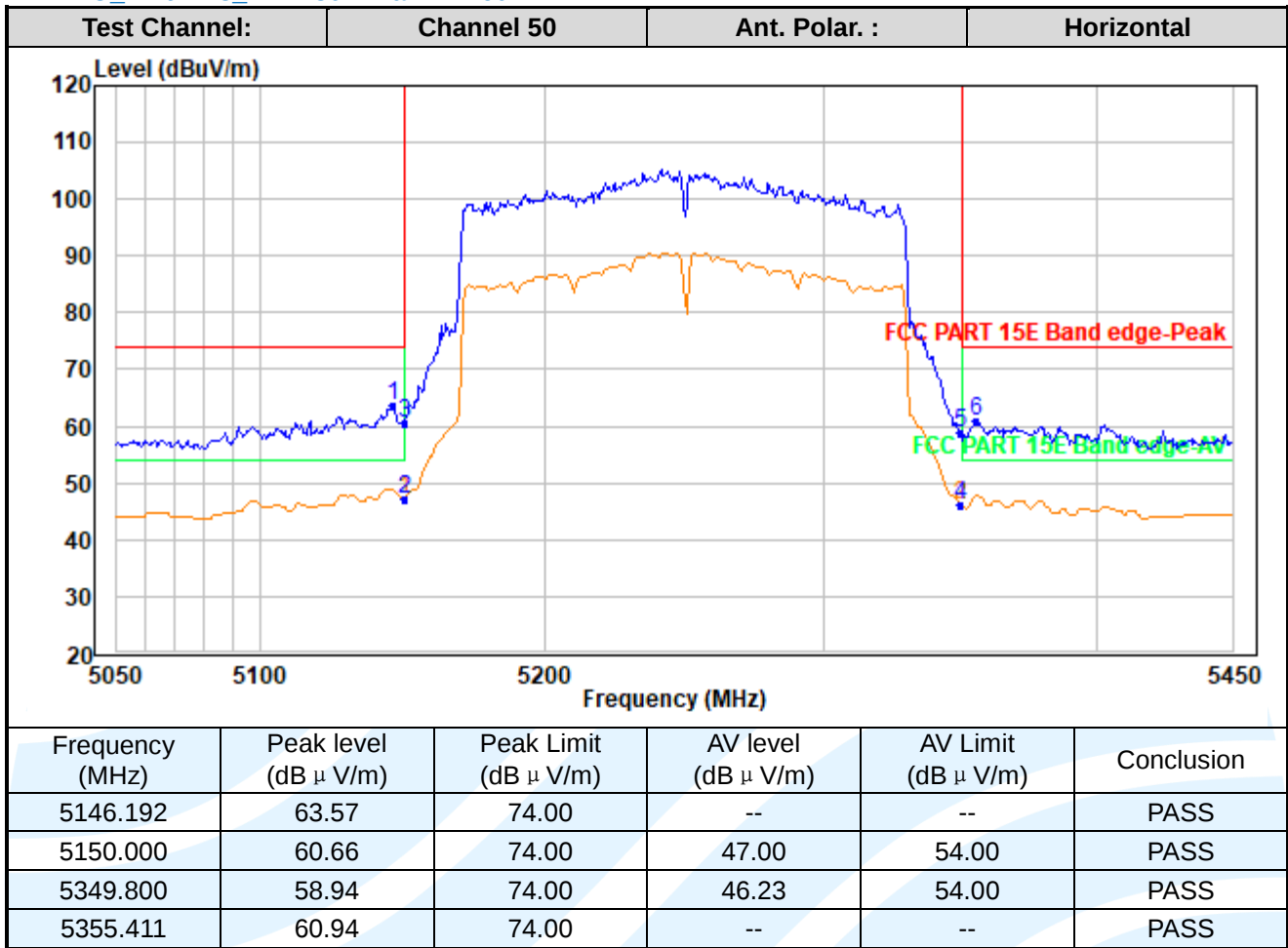
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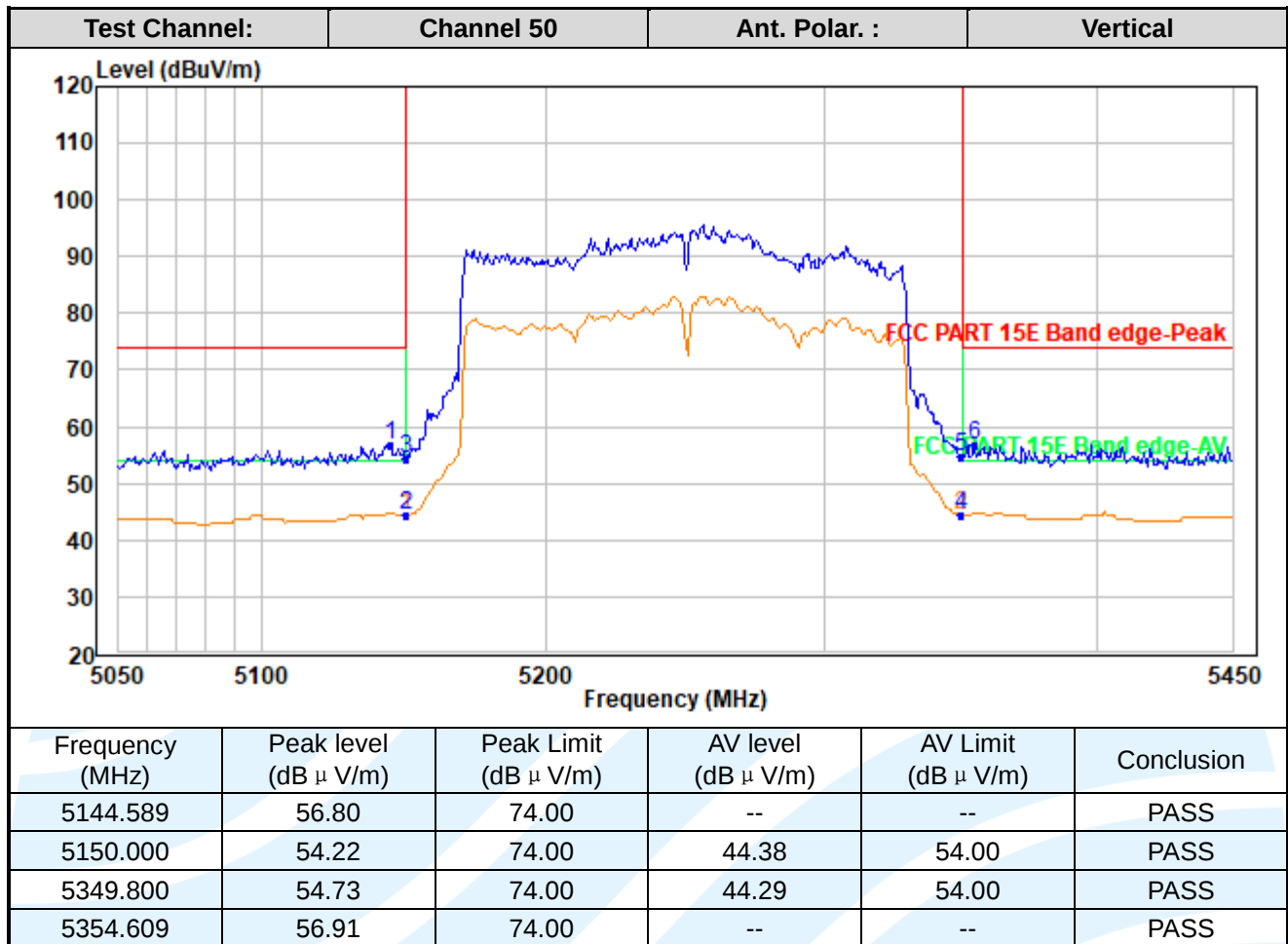
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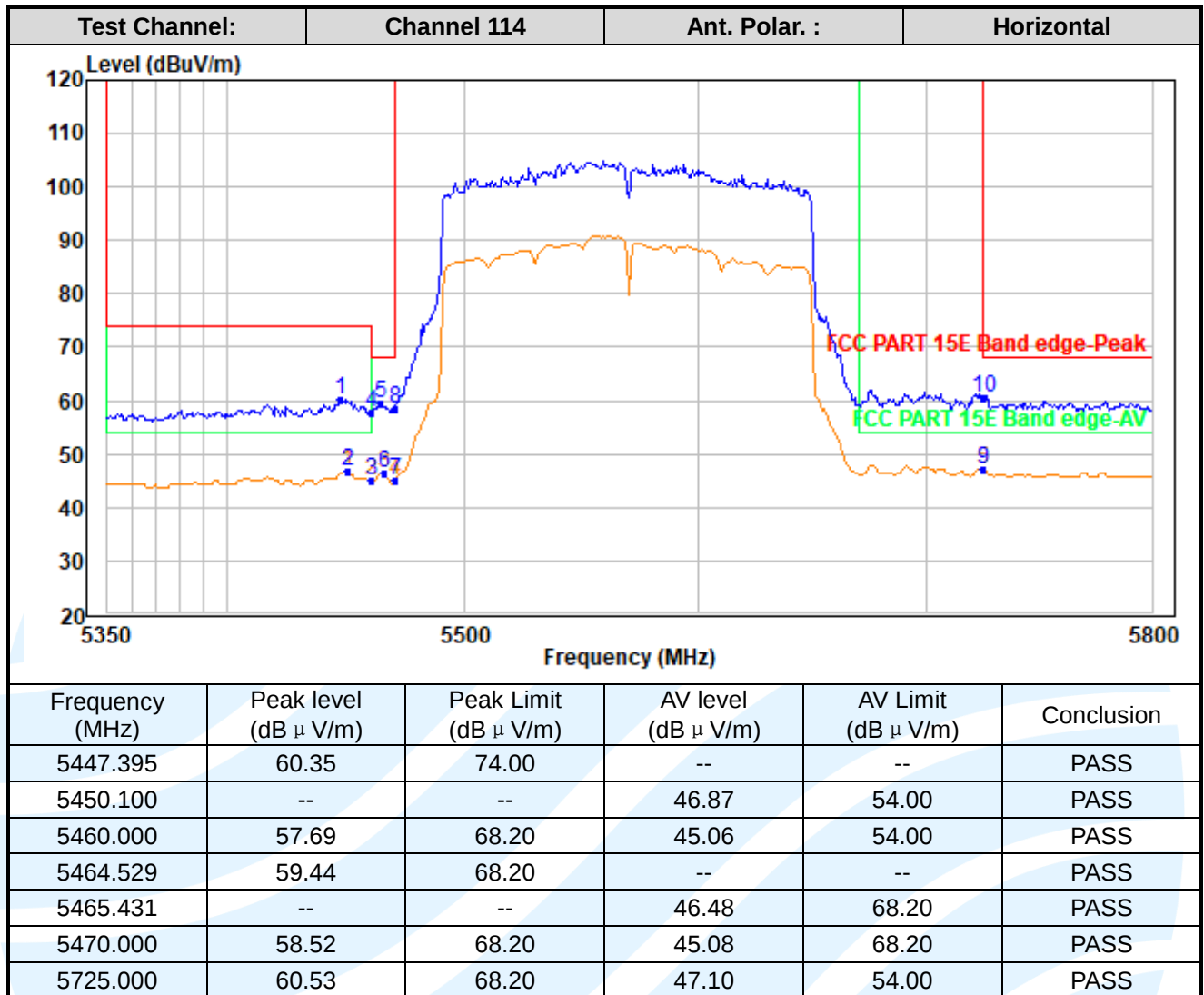
Fax: +86-755-28230886

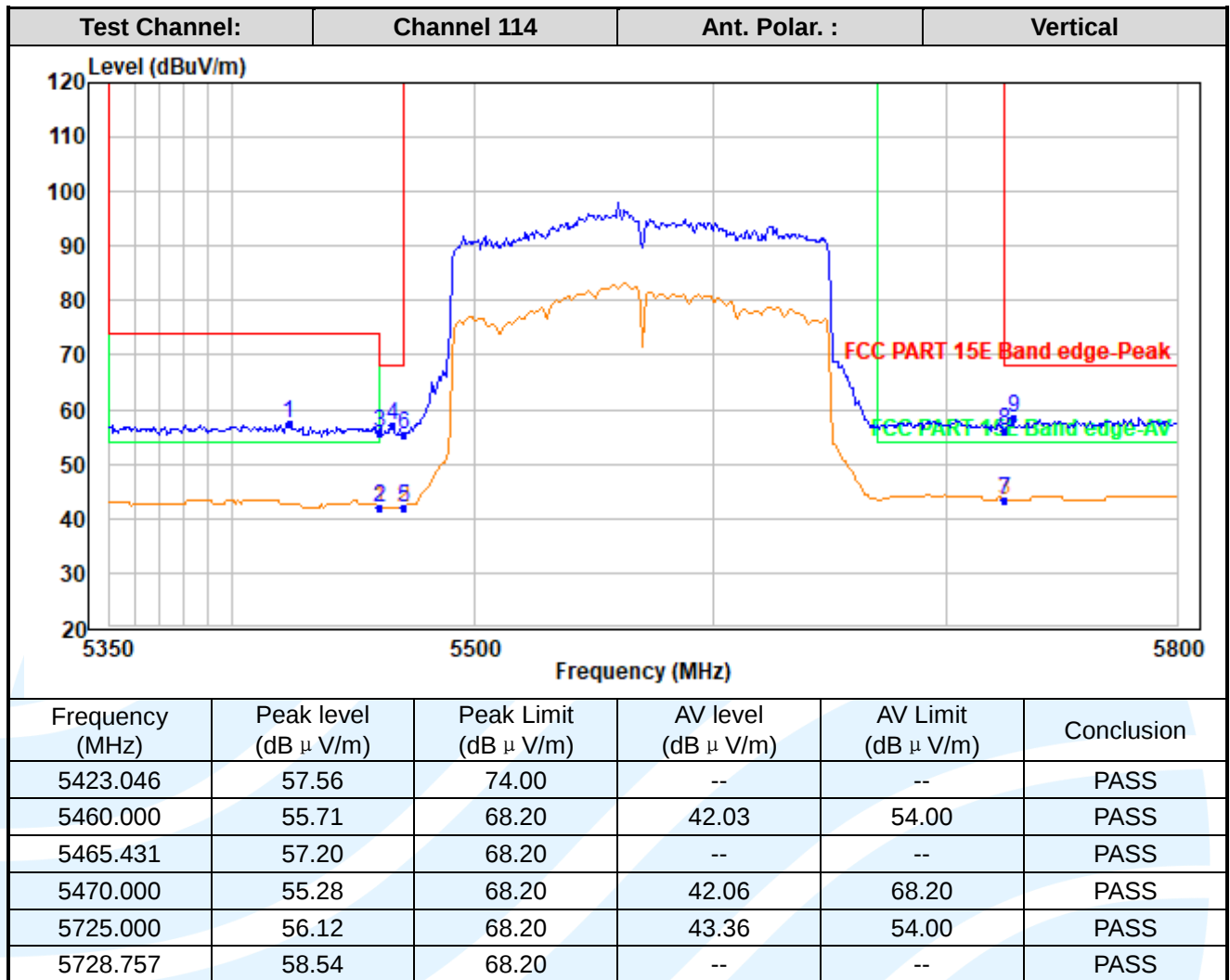
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5.8 AC POWER LINE CONDUCTED EMISSION

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.

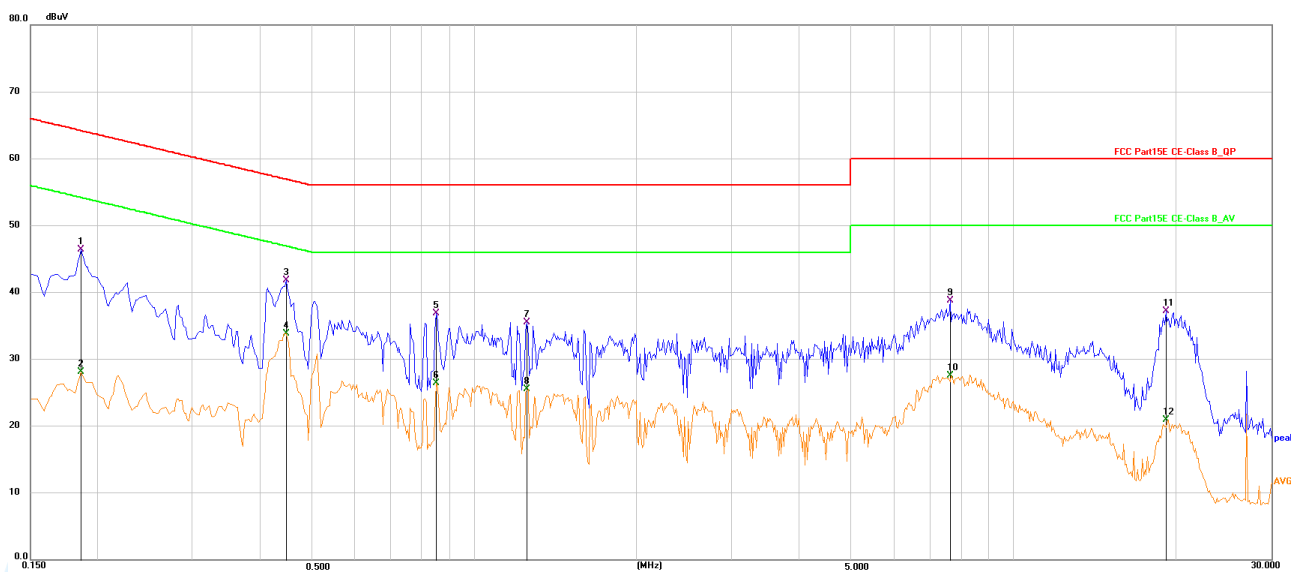
Test Result: Pass

The worst measurement data as follows:

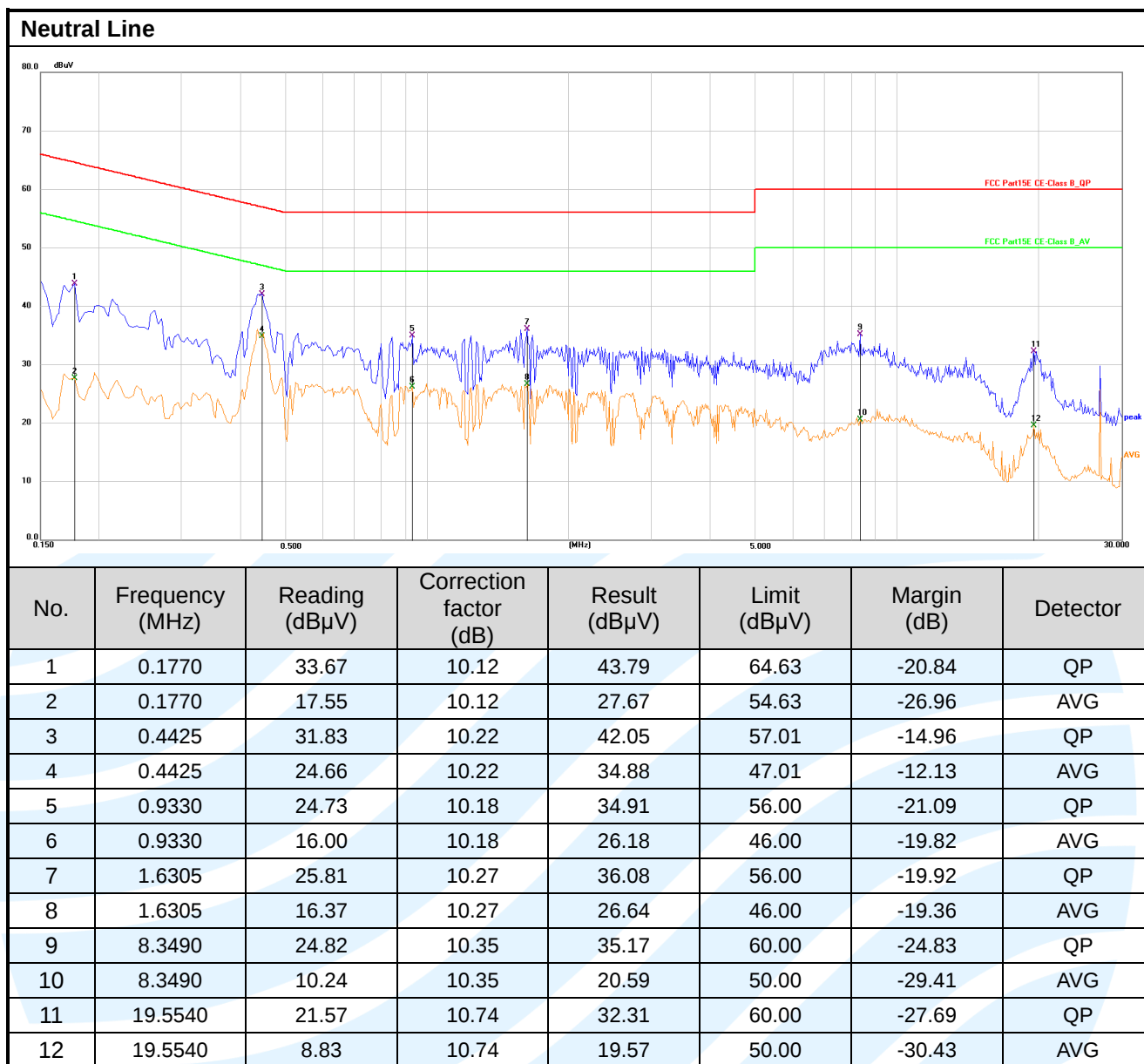
Quasi Peak and Average:

Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1860	36.18	10.17	46.35	64.21	-17.86	QP
2	0.1860	17.92	10.17	28.09	54.21	-26.12	AVG
3	0.4470	31.60	10.15	41.75	56.93	-15.18	QP
4	0.4470	23.73	10.15	33.88	46.93	-13.05	AVG
5	0.8520	26.58	10.28	36.86	56.00	-19.14	QP
6	0.8520	16.11	10.28	26.39	46.00	-19.61	AVG
7	1.2520	25.21	10.31	35.52	56.00	-20.48	QP
8	1.2520	15.21	10.31	25.52	46.00	-20.48	AVG
9	7.6063	28.26	10.49	38.75	60.00	-21.25	QP
10	7.6063	17.04	10.49	27.53	50.00	-22.47	AVG
11	19.1625	26.48	10.74	37.22	60.00	-22.78	QP
12	19.1625	10.13	10.74	20.87	50.00	-29.13	AVG



Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

APPENDIX A RF TEST DATA

A.1 EMISSION BANDWIDTH

MIMO_Ant. 1+2:

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

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	25.800	5167.440	5193.240	---	---
11A	Ant2	5180	24.960	5168.040	5193.000	---	---
11A	Ant1	5200	25.240	5187.640	5212.880	---	---
11A	Ant2	5200	24.920	5187.400	5212.320	---	---
11A	Ant1	5240	19.960	5230.080	5250.040	---	---
11A	Ant2	5240	22.160	5230.040	5252.200	---	---
11A	Ant1	5260	20.600	5249.760	5270.360	---	---
11A	Ant2	5260	20.600	5249.760	5270.360	---	---
11A	Ant1	5280	20.480	5269.680	5290.160	---	---
11A	Ant2	5280	21.920	5269.280	5291.200	---	---
11A	Ant1	5320	25.080	5306.280	5331.360	---	---
11A	Ant2	5320	24.840	5307.440	5332.280	---	---
11A	Ant1	5500	26.880	5486.360	5513.240	---	---
11A	Ant2	5500	27.280	5487.280	5514.560	---	---
11A	Ant1	5580	20.640	5569.880	5590.520	---	---
11A	Ant2	5580	20.800	5569.680	5590.480	---	---
11A	Ant1	5700	23.160	5688.440	5711.600	---	---
11A	Ant2	5700	24.160	5687.800	5711.960	---	---
11N20MIMO	Ant1	5180	40.000	5160.000	5200.000	---	---
11N20MIMO	Ant2	5180	27.080	5167.440	5194.520	---	---
11N20MIMO	Ant1	5200	28.560	5184.680	5213.240	---	---
11N20MIMO	Ant2	5200	28.920	5186.440	5215.360	---	---
11N20MIMO	Ant1	5240	20.280	5229.800	5250.080	---	---
11N20MIMO	Ant2	5240	25.240	5229.920	5255.160	---	---
11N20MIMO	Ant1	5260	21.400	5249.280	5270.680	---	---
11N20MIMO	Ant2	5260	21.360	5249.400	5270.760	---	---
11N20MIMO	Ant1	5280	21.400	5269.240	5290.640	---	---
11N20MIMO	Ant2	5280	20.840	5269.680	5290.520	---	---
11N20MIMO	Ant1	5320	23.560	5307.400	5330.960	---	---
11N20MIMO	Ant2	5320	25.680	5306.000	5331.680	---	---
11N20MIMO	Ant1	5500	26.680	5487.520	5514.200	---	---
11N20MIMO	Ant2	5500	26.000	5486.760	5512.760	---	---
11N20MIMO	Ant1	5580	21.400	5569.360	5590.760	---	---
11N20MIMO	Ant2	5580	21.240	5569.400	5590.640	---	---
11N20MIMO	Ant1	5700	24.800	5686.520	5711.320	---	---
11N20MIMO	Ant2	5700	25.320	5685.680	5711.000	---	---
11N40MIMO	Ant1	5190	48.800	5167.760	5216.560	---	---
11N40MIMO	Ant2	5190	48.880	5168.480	5217.360	---	---
11N40MIMO	Ant1	5230	40.400	5209.680	5250.080	---	---
11N40MIMO	Ant2	5230	39.120	5210.560	5249.680	---	---
11N40MIMO	Ant1	5270	40.160	5250.080	5290.240	---	---
11N40MIMO	Ant2	5270	40.080	5249.840	5289.920	---	---
11N40MIMO	Ant1	5310	43.920	5288.240	5332.160	---	---
11N40MIMO	Ant2	5310	48.640	5285.920	5334.560	---	---
11N40MIMO	Ant1	5510	53.520	5485.520	5539.040	---	---
11N40MIMO	Ant2	5510	48.160	5488.560	5536.720	---	---
11N40MIMO	Ant1	5550	40.720	5529.840	5570.560	---	---
11N40MIMO	Ant2	5550	40.080	5529.920	5570.000	---	---
11N40MIMO	Ant1	5670	60.000	5636.640	5696.640	---	---
11N40MIMO	Ant2	5670	52.960	5641.600	5694.560	---	---
11AC20MIMO	Ant1	5180	27.040	5167.680	5194.720	---	---
11AC20MIMO	Ant2	5180	21.720	5169.160	5190.880	---	---
11AC20MIMO	Ant1	5200	27.920	5185.960	5213.880	---	---
11AC20MIMO	Ant2	5200	21.280	5189.520	5210.800	---	---
11AC20MIMO	Ant1	5240	20.280	5230.000	5250.280	---	---
11AC20MIMO	Ant2	5240	20.320	5229.880	5250.200	---	---

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11AC20MIMO	Ant2	5260	21.520	5249.400	5270.920	---	---
11AC20MIMO	Ant1	5280	21.800	5269.080	5290.880	---	---
11AC20MIMO	Ant2	5280	21.560	5269.320	5290.880	---	---
11AC20MIMO	Ant1	5320	24.840	5307.000	5331.840	---	---
11AC20MIMO	Ant2	5320	21.000	5309.440	5330.440	---	---
11AC20MIMO	Ant1	5500	26.480	5487.400	5513.880	---	---
11AC20MIMO	Ant2	5500	20.880	5489.680	5510.560	---	---
11AC20MIMO	Ant1	5580	21.680	5569.080	5590.760	---	---
11AC20MIMO	Ant2	5580	21.360	5569.480	5590.840	---	---
11AC20MIMO	Ant1	5700	25.600	5685.960	5711.560	---	---
11AC20MIMO	Ant2	5700	24.640	5686.280	5710.920	---	---
11AC40MIMO	Ant1	5190	51.360	5167.520	5218.880	---	---
11AC40MIMO	Ant2	5190	41.280	5170.000	5211.280	---	---
11AC40MIMO	Ant1	5230	40.880	5209.600	5250.480	---	---
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11AC40MIMO	Ant2	5510	51.360	5486.320	5537.680	---	---
11AC40MIMO	Ant1	5550	40.000	5530.160	5570.160	---	---
11AC40MIMO	Ant2	5550	40.000	5530.240	5570.240	---	---
11AC40MIMO	Ant1	5670	61.120	5642.400	5703.520	---	---
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11AC80MIMO	Ant1	5290	103.200	5231.920	5335.120	---	---
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11AC160MIMO	Ant2	5250	168.000	5169.360	5337.360	---	---
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11AC160MIMO	Ant2	5570	167.040	5489.040	5656.080	---	---
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11AX20MIMO	Ant2	5180	27.720	5168.080	5195.800	---	---
11AX20MIMO	Ant1	5200	26.320	5187.440	5213.760	---	---
11AX20MIMO	Ant2	5200	26.720	5186.360	5213.080	---	---
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11AX40MIMO	Ant1	5230	39.600	5210.240	5249.840	---	---

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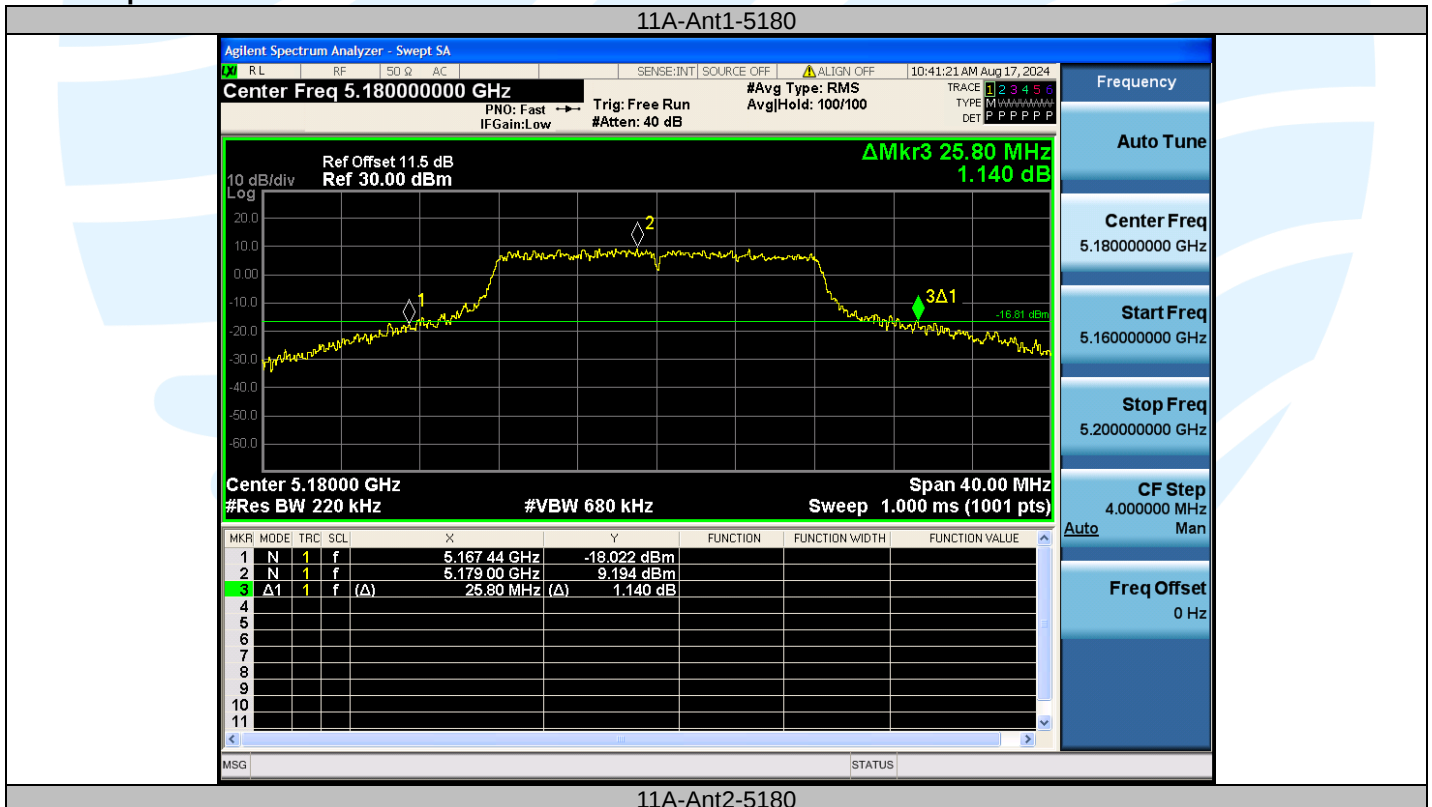
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11AX40MIMO	Ant2	5230	39.520	5210.240	5249.760	---	---
11AX40MIMO	Ant1	5270	39.360	5250.400	5289.760	---	---
11AX40MIMO	Ant2	5270	39.600	5250.320	5289.920	---	---
11AX40MIMO	Ant1	5310	49.280	5284.240	5333.520	---	---
11AX40MIMO	Ant2	5310	49.520	5283.600	5333.120	---	---
11AX40MIMO	Ant1	5510	41.120	5490.160	5531.280	---	---
11AX40MIMO	Ant2	5510	40.080	5489.760	5529.840	---	---
11AX40MIMO	Ant1	5550	39.600	5530.320	5569.920	---	---
11AX40MIMO	Ant2	5550	39.520	5530.320	5569.840	---	---
11AX40MIMO	Ant1	5670	51.040	5644.080	5695.120	---	---
11AX40MIMO	Ant2	5670	51.040	5643.840	5694.880	---	---
11AX80MIMO	Ant1	5210	90.400	5170.000	5260.400	---	---
11AX80MIMO	Ant2	5210	93.440	5167.600	5261.040	---	---
11AX80MIMO	Ant1	5290	84.960	5245.360	5330.320	---	---
11AX80MIMO	Ant2	5290	98.560	5233.840	5332.400	---	---
11AX80MIMO	Ant1	5530	91.360	5486.480	5577.840	---	---
11AX80MIMO	Ant2	5530	86.080	5486.960	5573.040	---	---
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11AX80MIMO	Ant2	5610	80.000	5570.160	5650.160	---	---
11AX160MIMO	Ant1	5250	163.200	5169.360	5332.560	---	---
11AX160MIMO	Ant2	5250	165.120	5169.680	5334.800	---	---
11AX160MIMO	Ant1	5250 UNII-1	80.64	5169.360	5250	---	---
11AX160MIMO	Ant2	5250 UNII-1	80.32	5169.680	5250	---	---
11AX160MIMO	Ant1	5250 UNII-2A	82.56	5250	5332.560	---	---
11AX160MIMO	Ant2	5250 UNII-2A	84.8	5250	5334.800	---	---
11AX160MIMO	Ant1	5570	161.920	5489.360	5651.280	---	---
11AX160MIMO	Ant2	5570	165.440	5489.040	5654.480	---	---

Test Graphs



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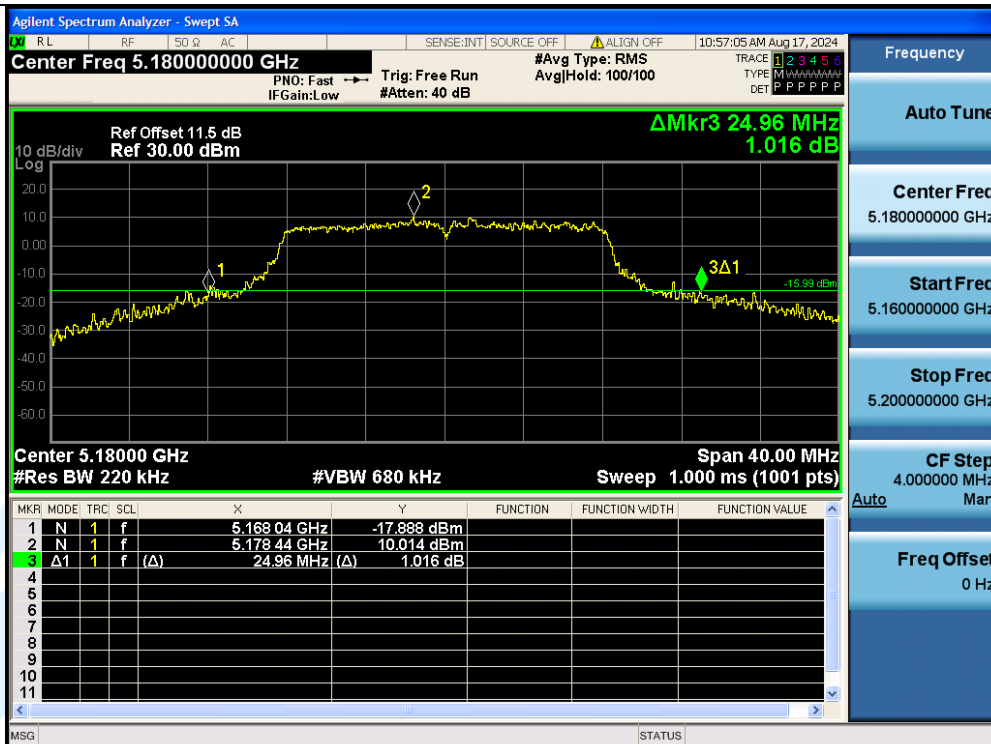
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Fax: +86-755-28230886

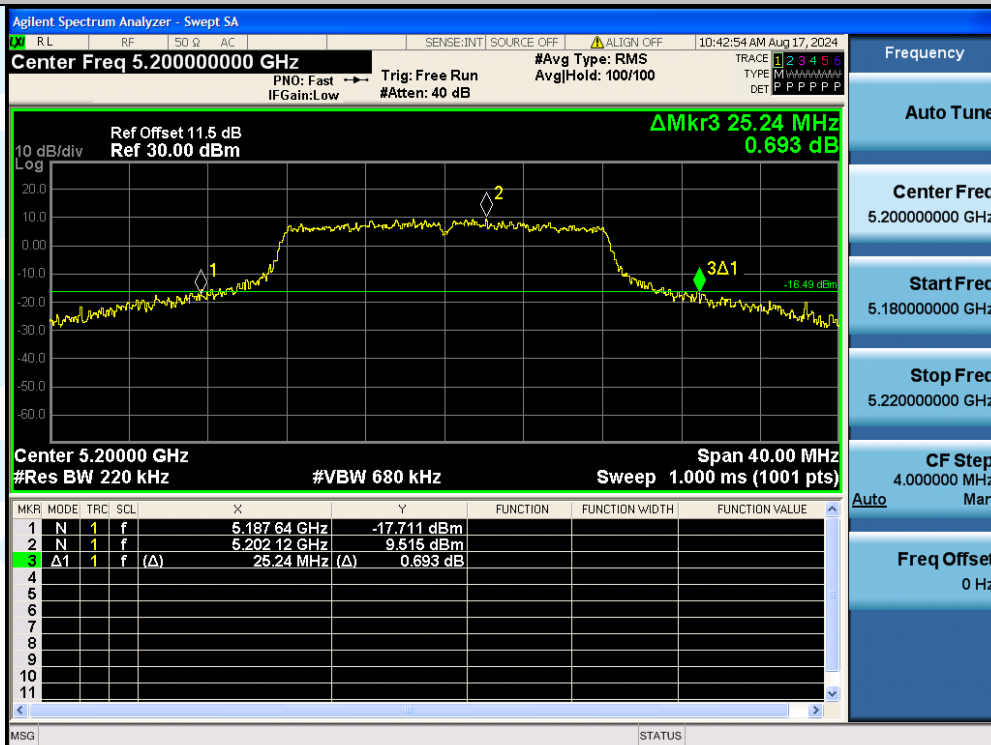
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11A-Ant1-5200



11A-Ant2-5200

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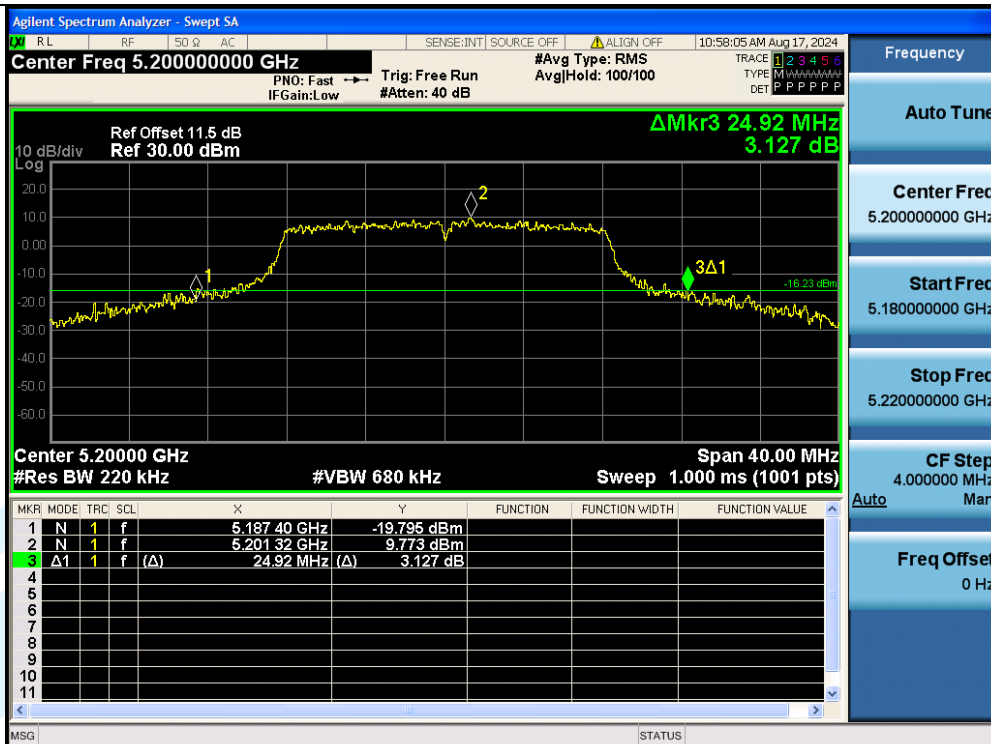
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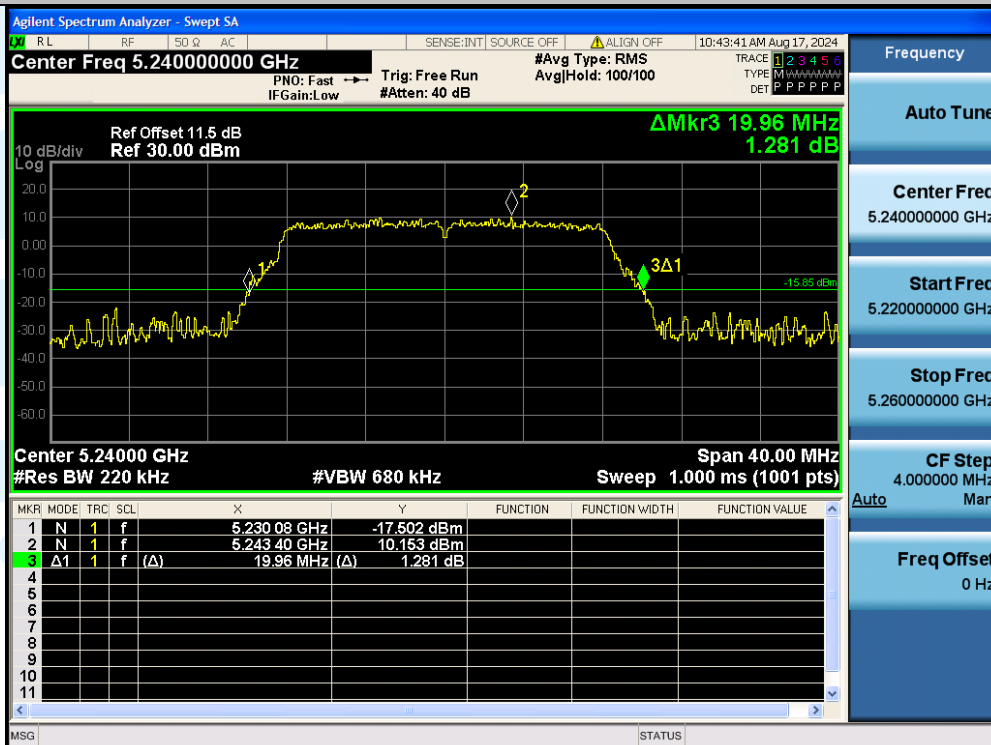
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11A-Ant1-5240



11A-Ant2-5240

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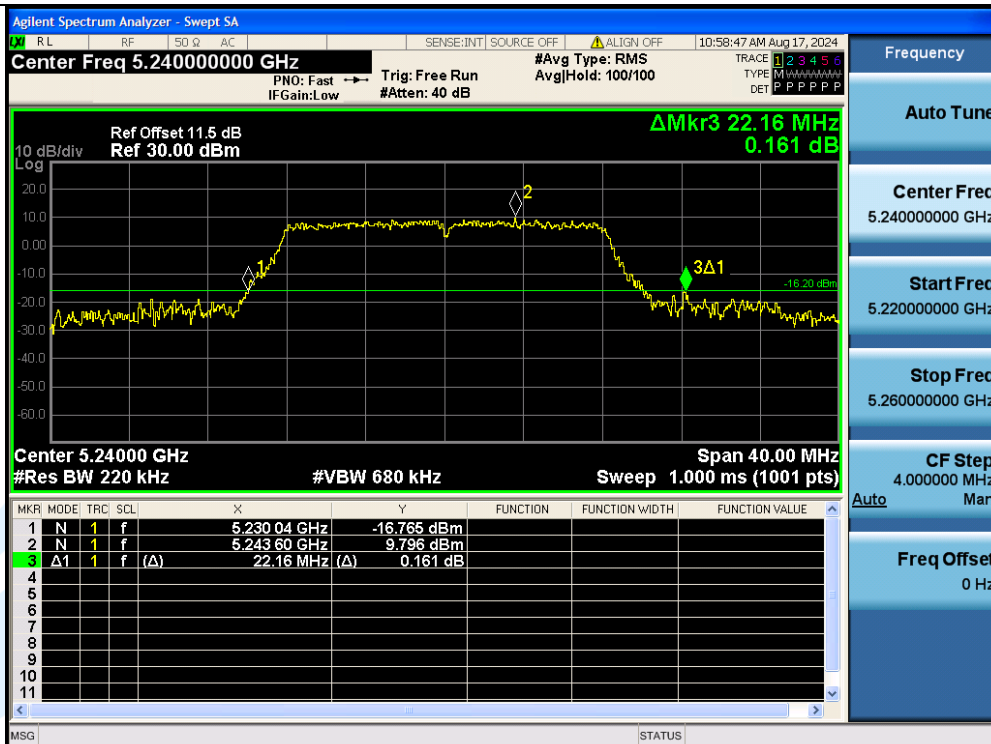
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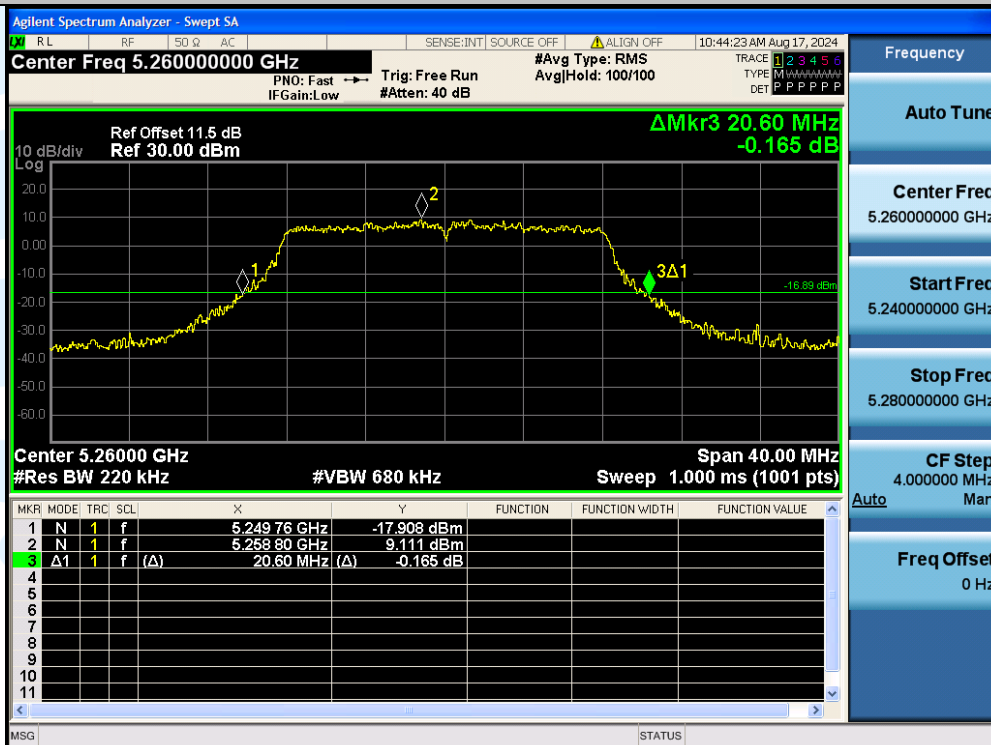
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11A-Ant1-5260



11A-Ant2-5260

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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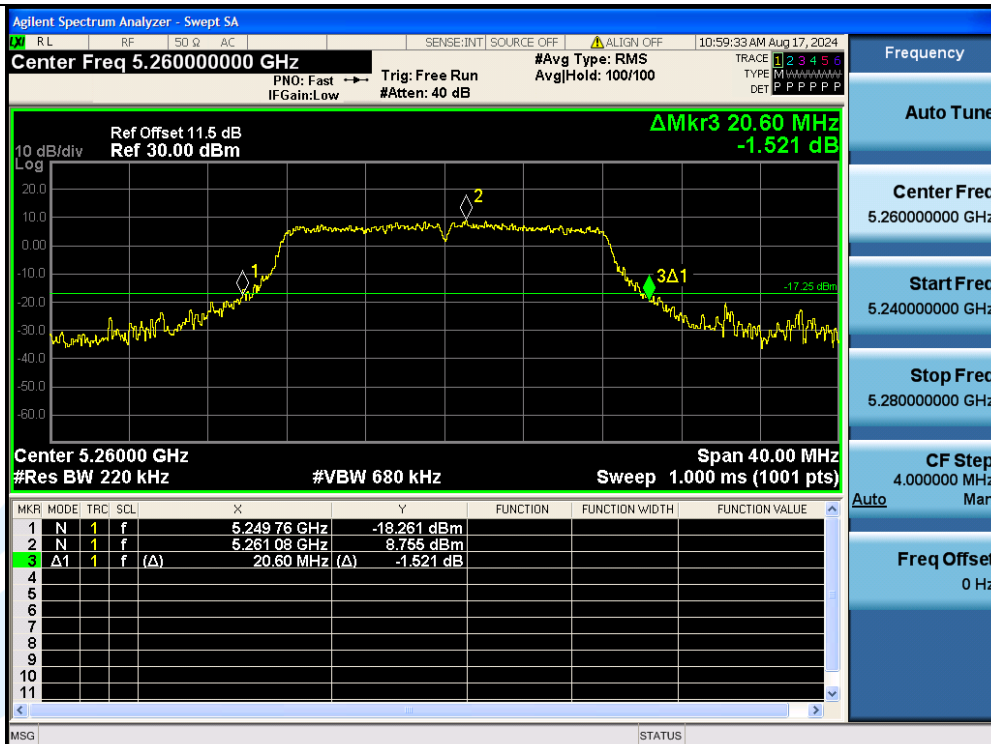
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11A-Ant1-5280



11A-Ant2-5280

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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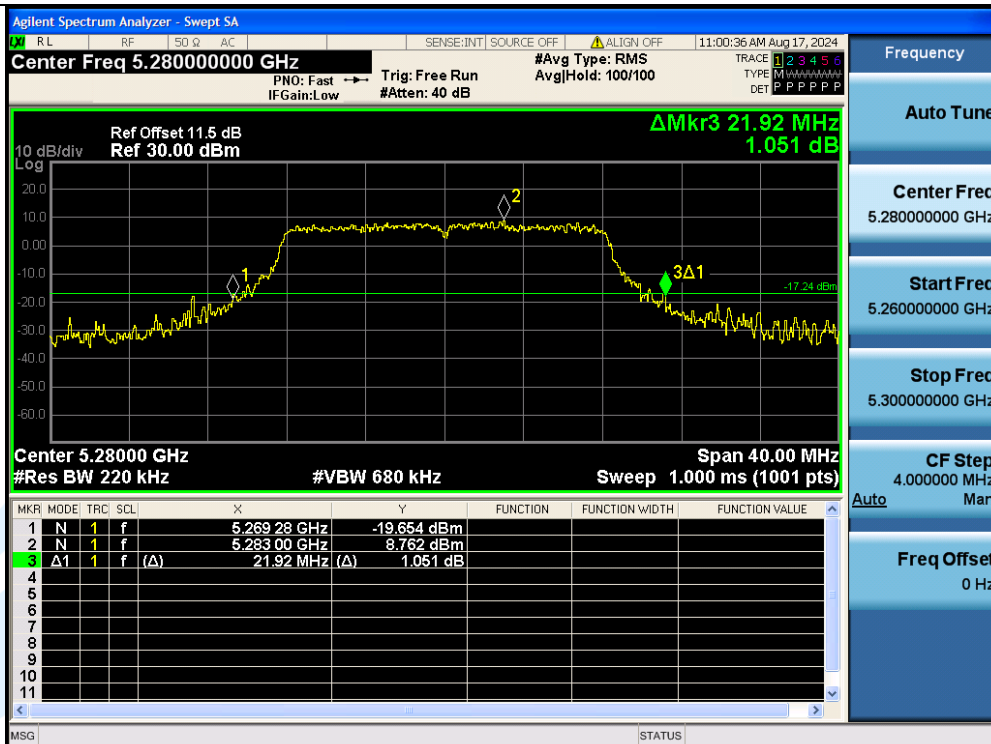
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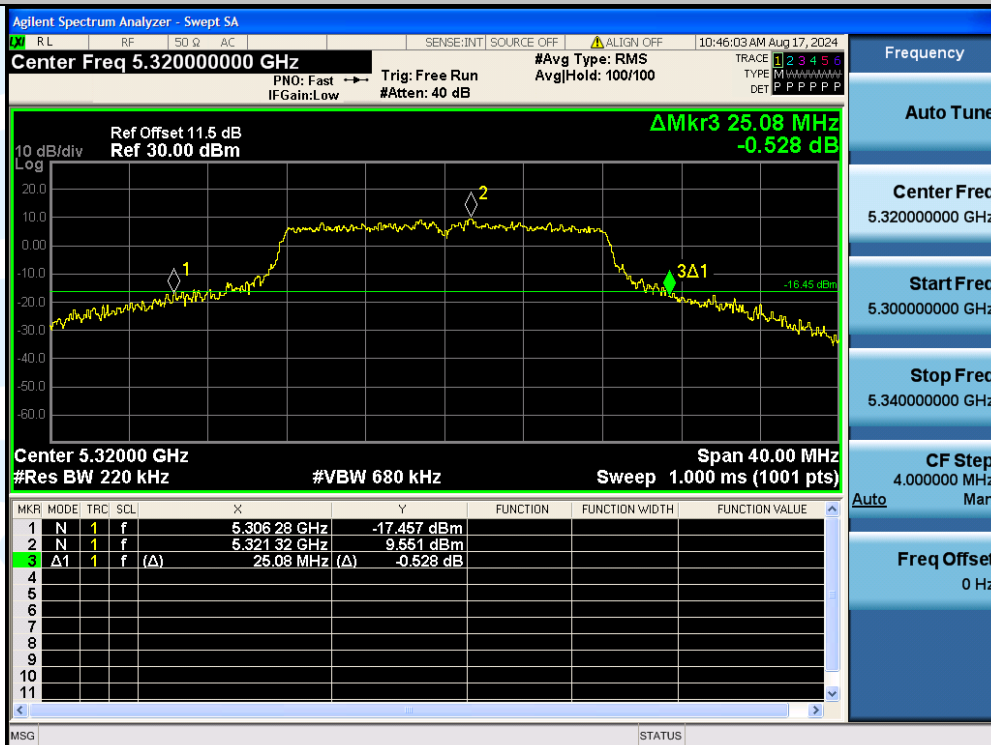
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11A-Ant1-5320



11A-Ant2-5320

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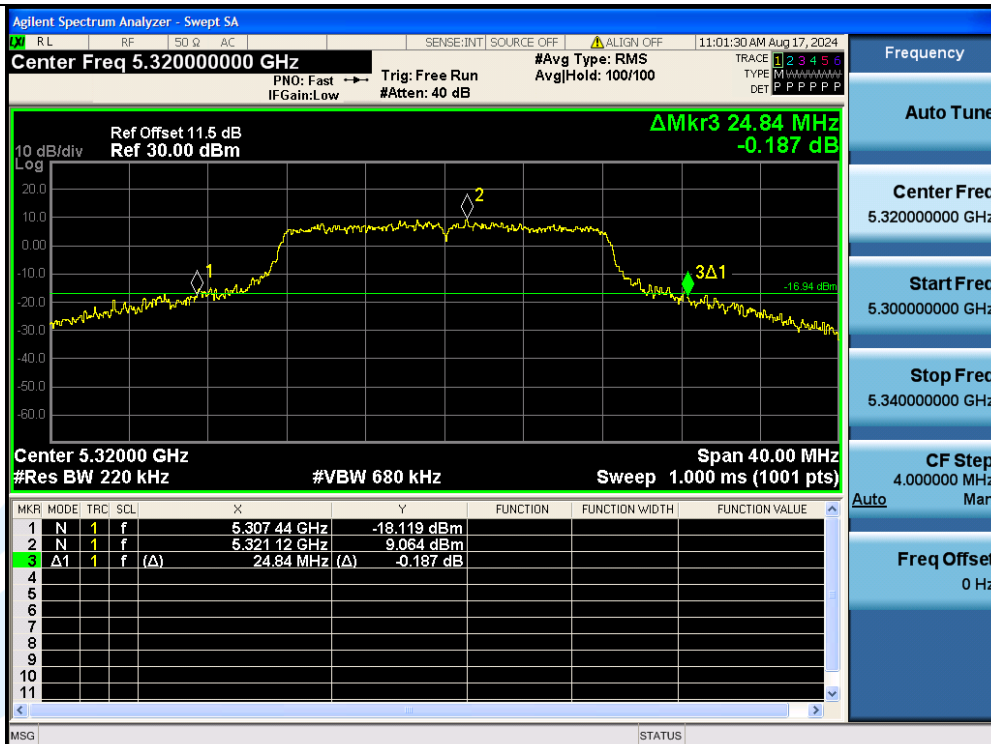
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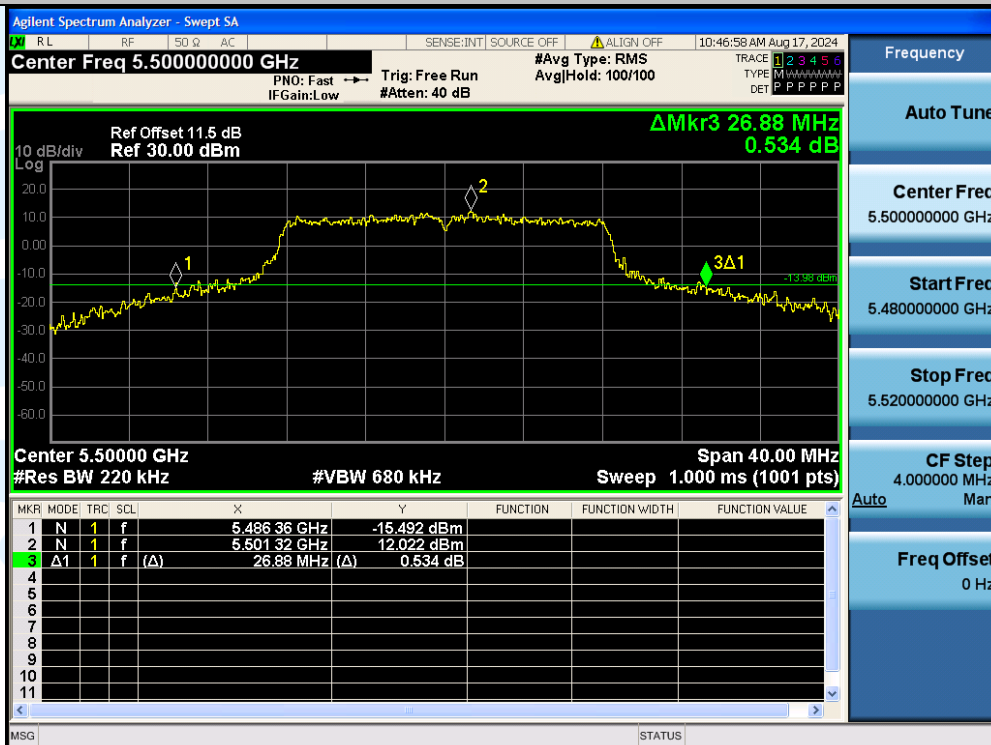
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11A-Ant1-5500



11A-Ant2-5500

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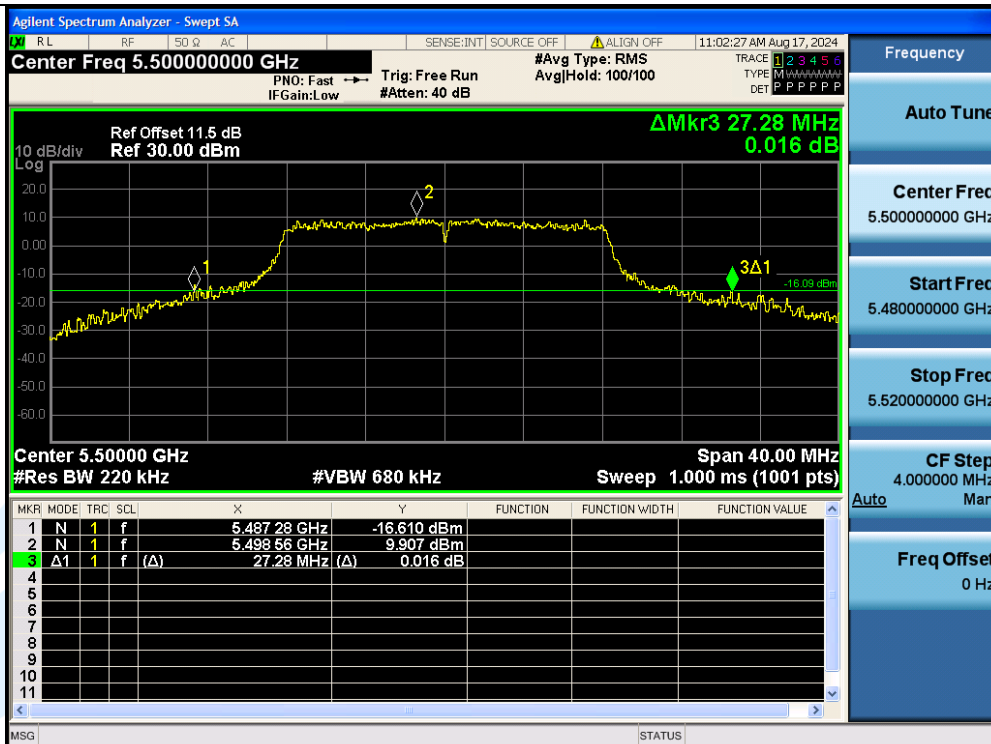
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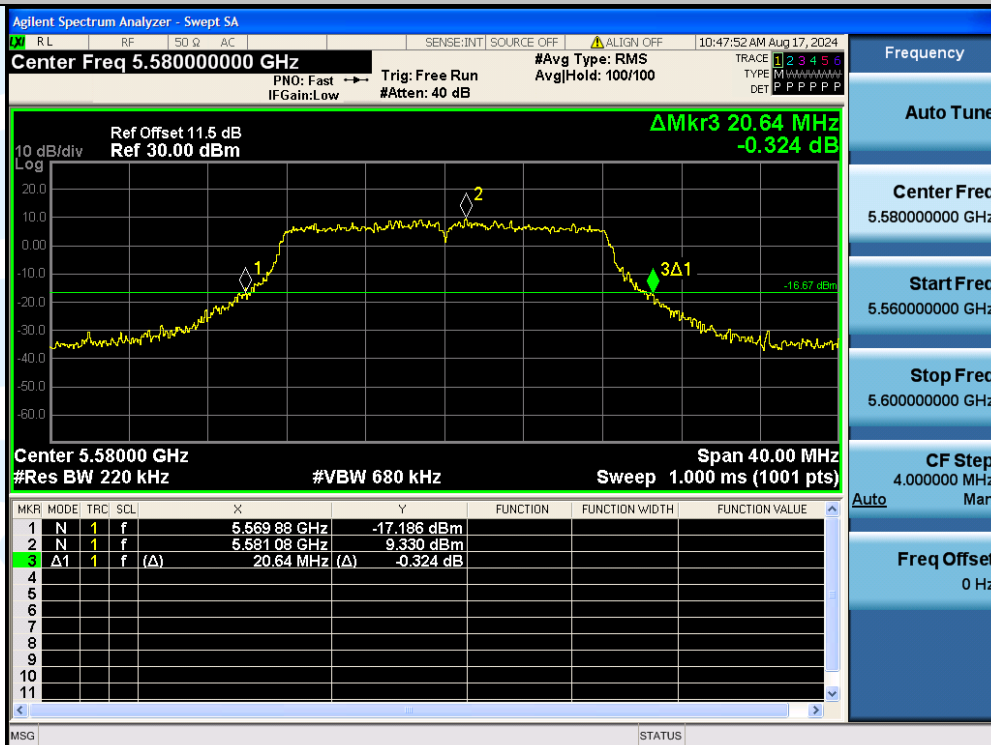
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11A-Ant1-5580



11A-Ant2-5580

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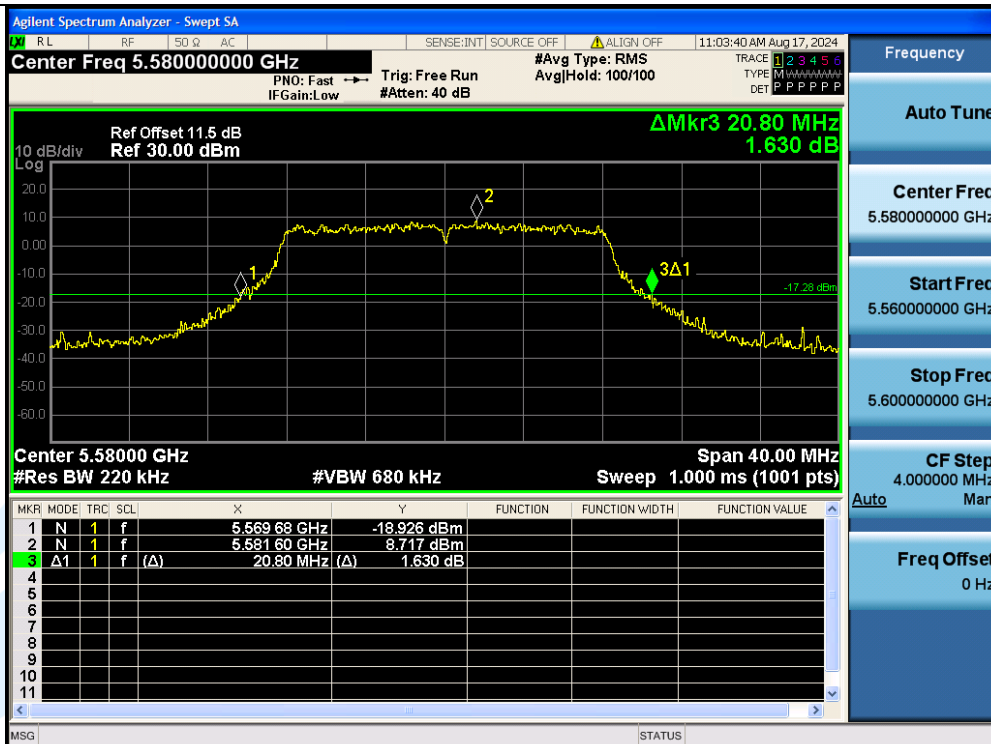
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11A-Ant1-5700



11A-Ant2-5700

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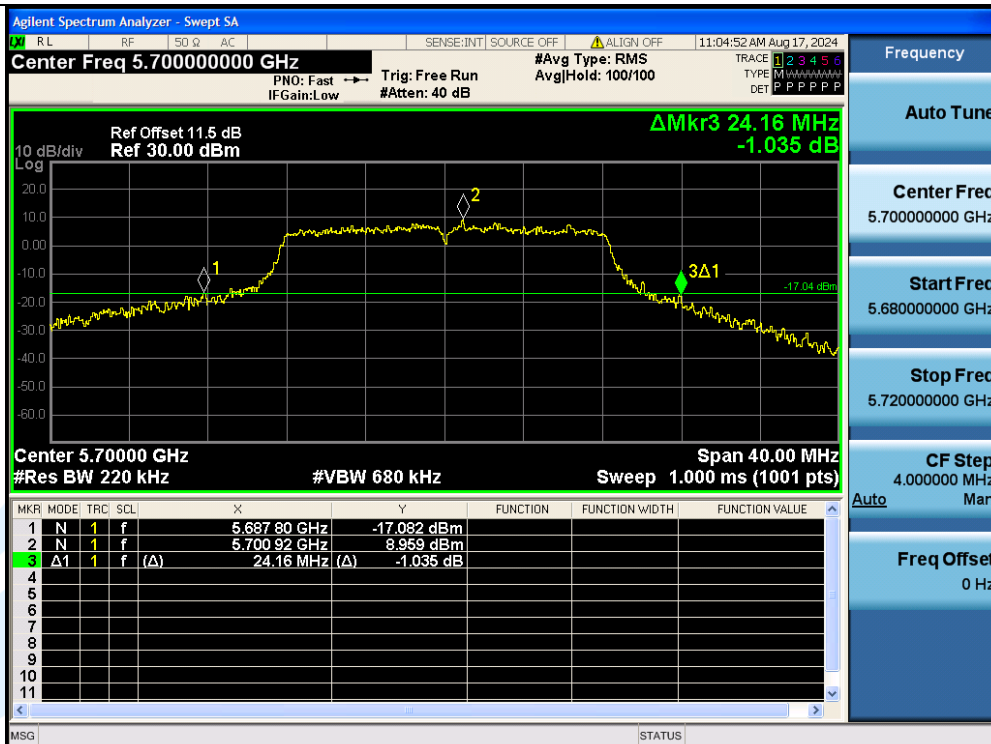
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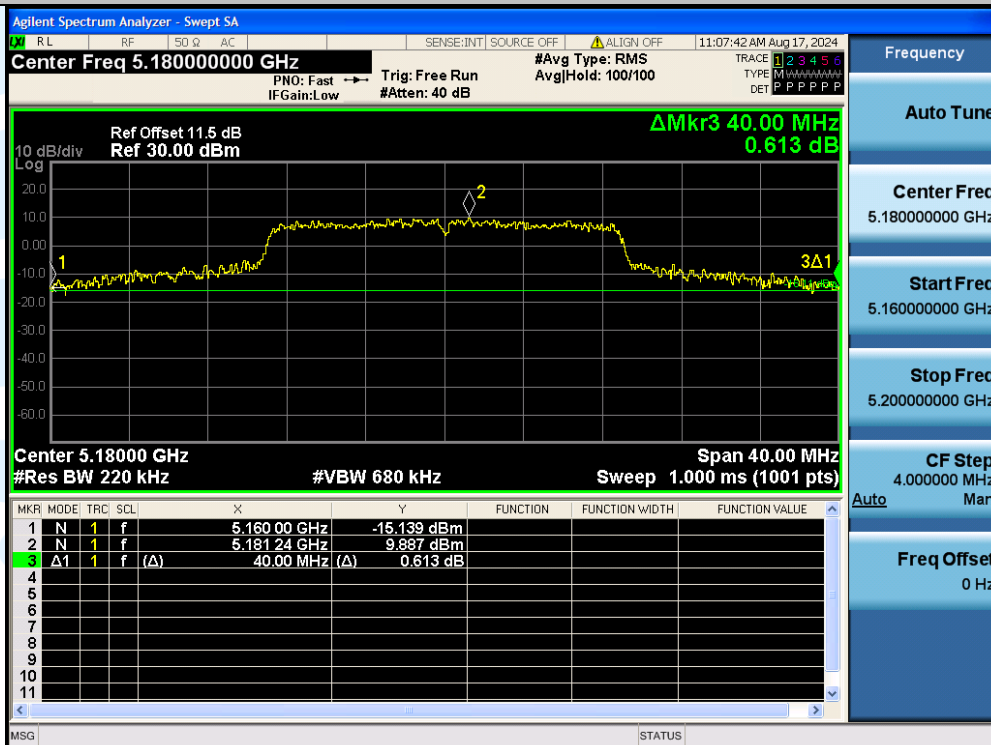
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11N20MIMO-Ant1-5180



11N20MIMO-Ant2-5180

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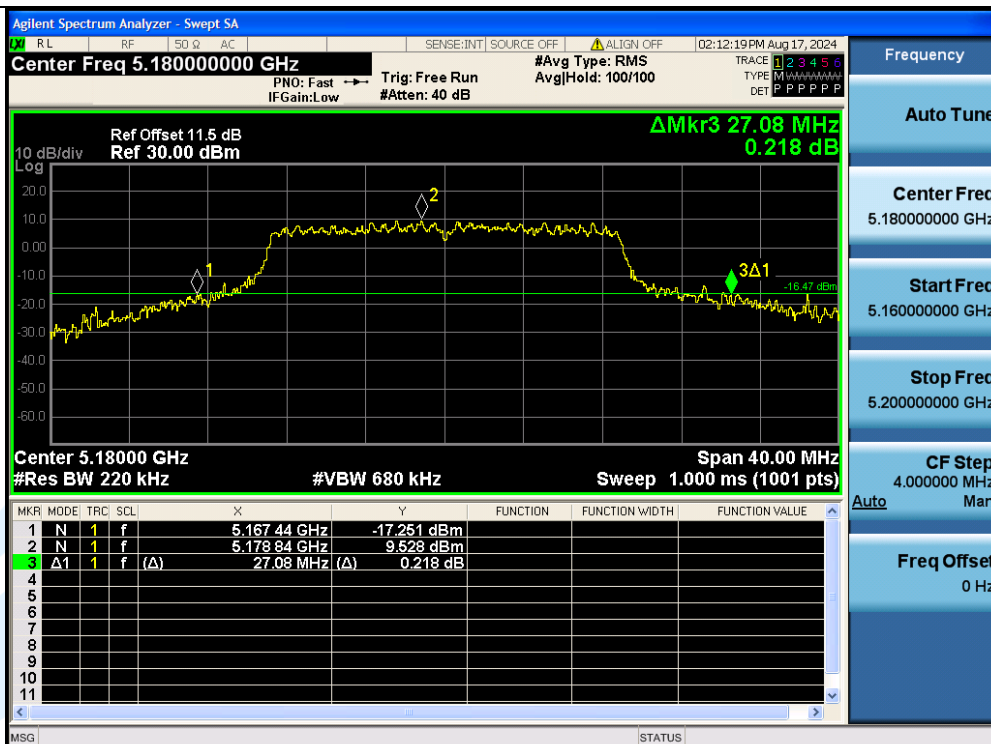
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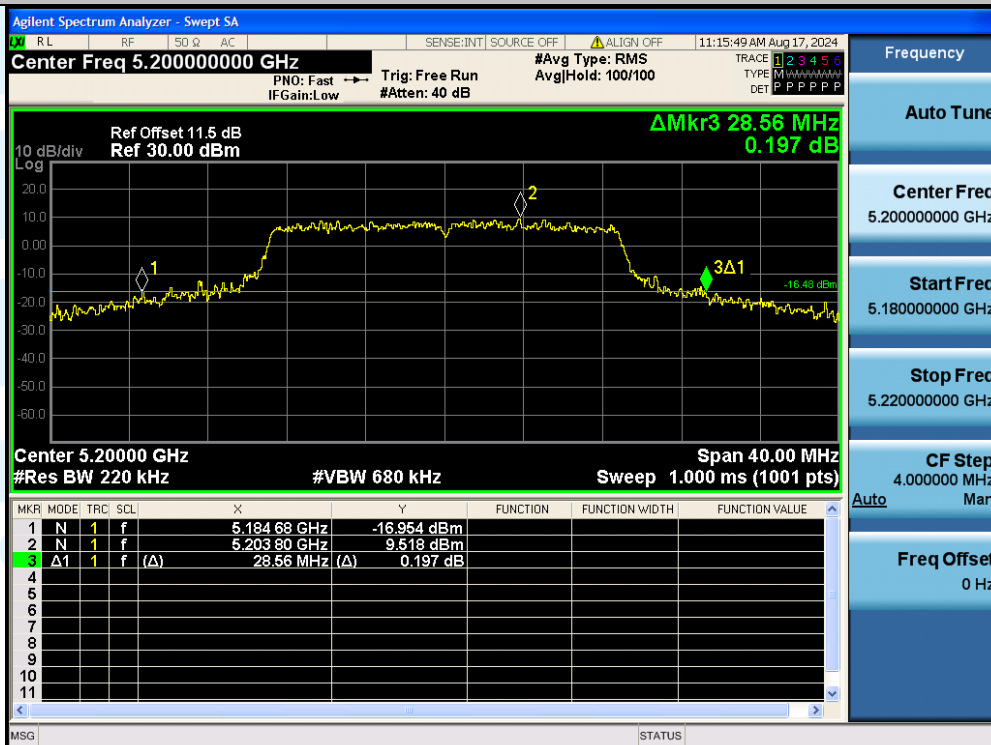
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11N20MIMO-Ant1-5200



11N20MIMO-Ant2-5200

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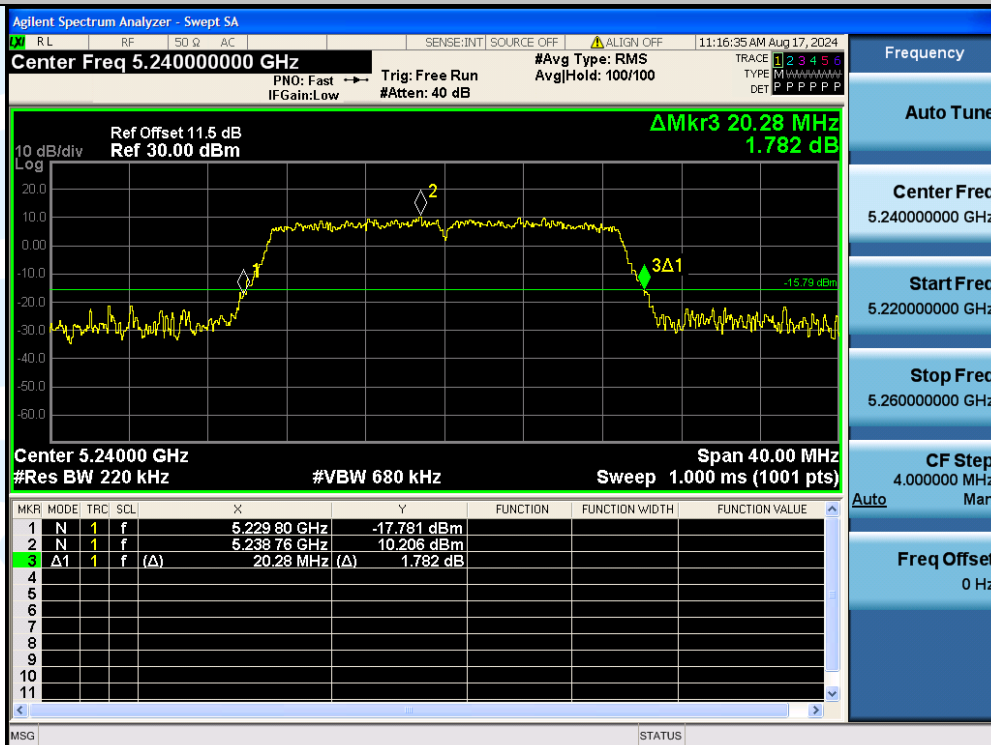
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11N20MIMO-Ant1-5240



11N20MIMO-Ant2-5240

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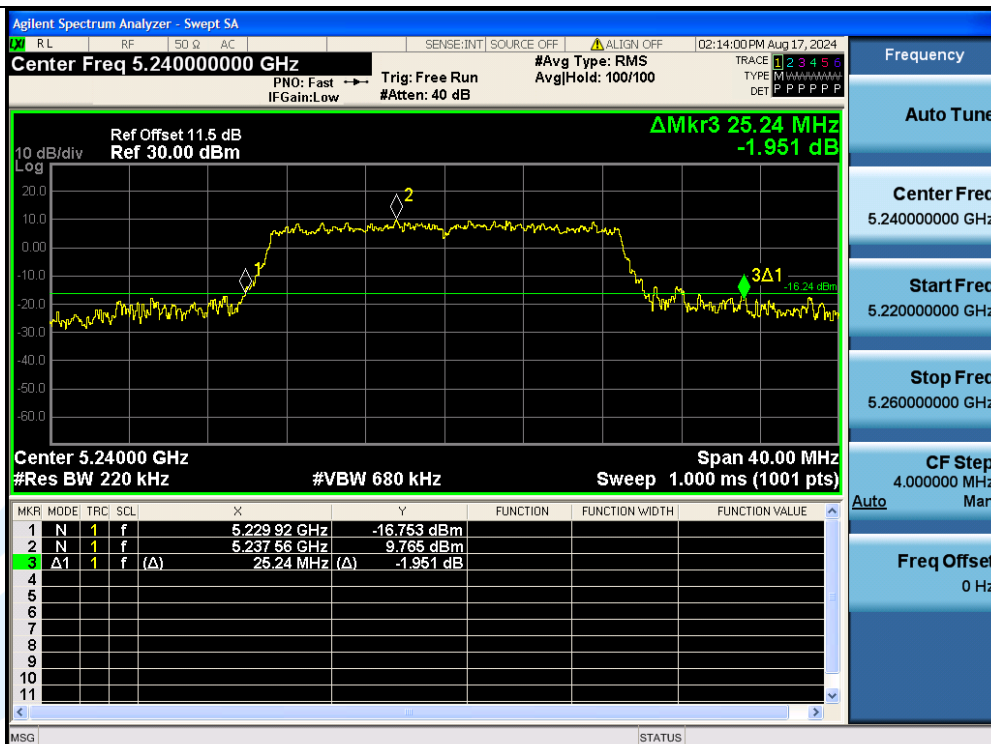
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Fax: +86-755-28230886

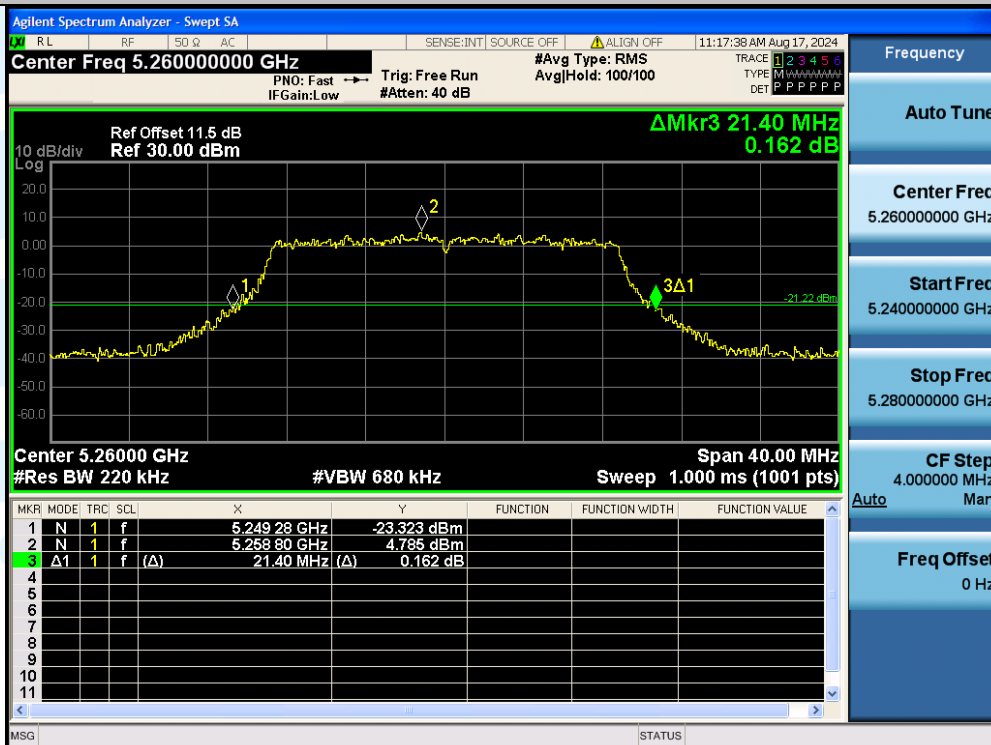
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11N20MIMO-Ant1-5260



11N20MIMO-Ant2-5260

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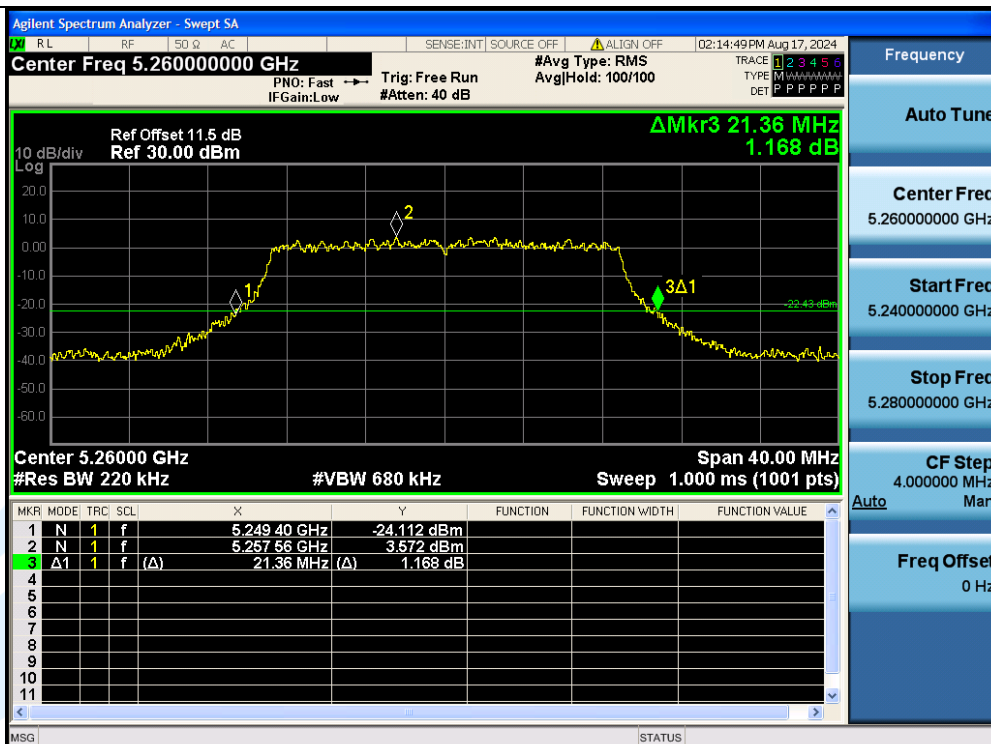
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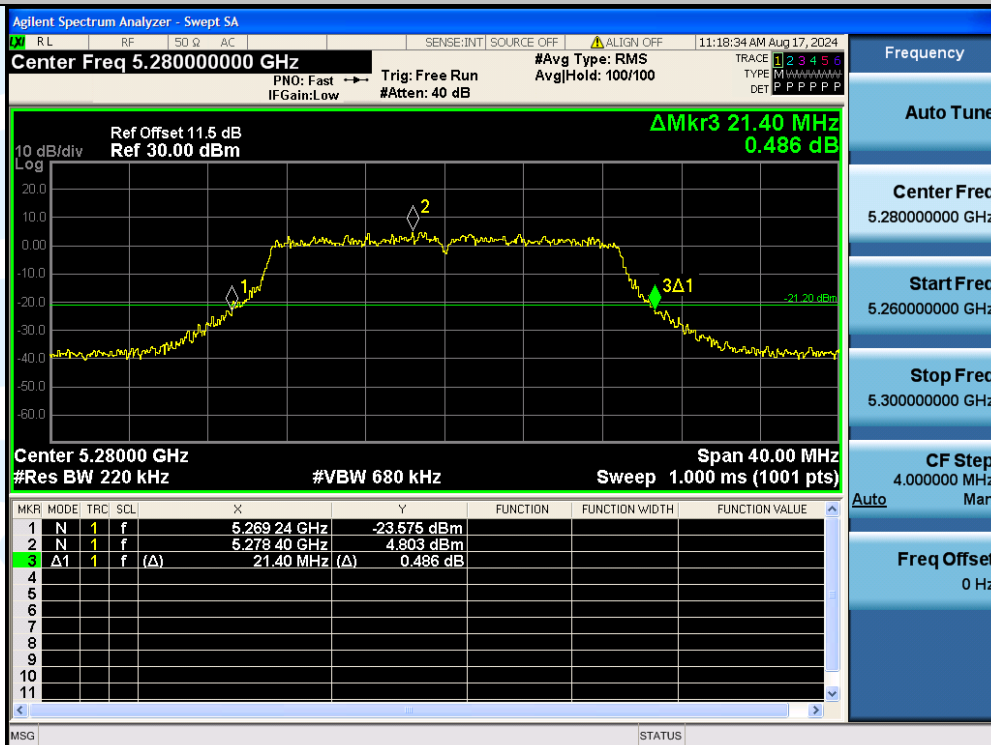
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11N20MIMO-Ant1-5280



11N20MIMO-Ant2-5280

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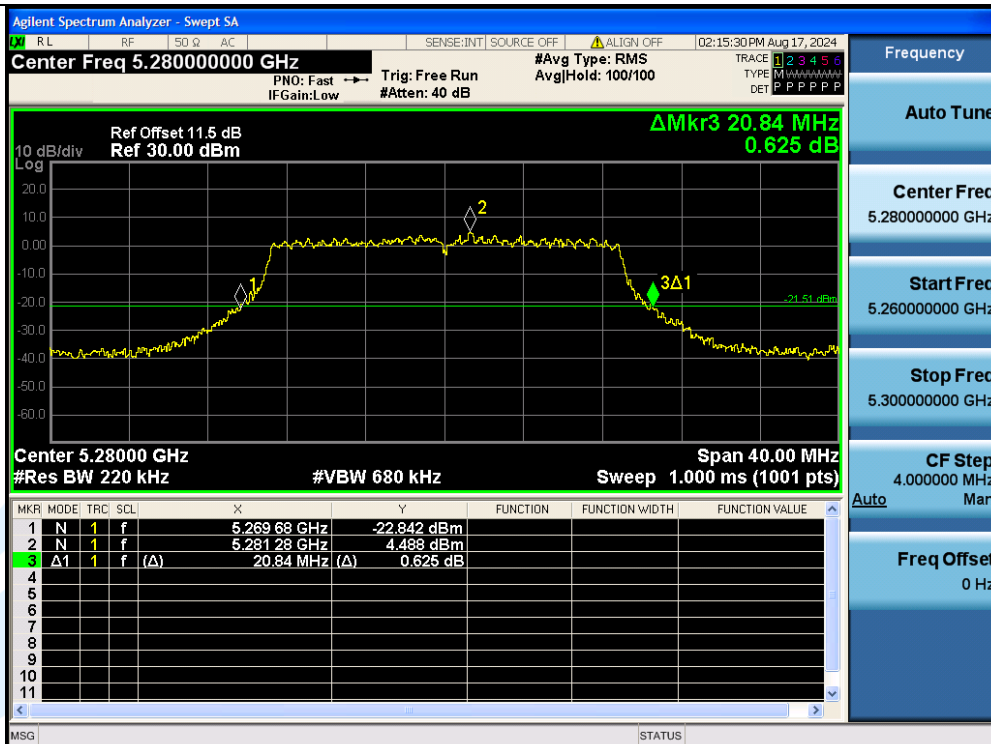
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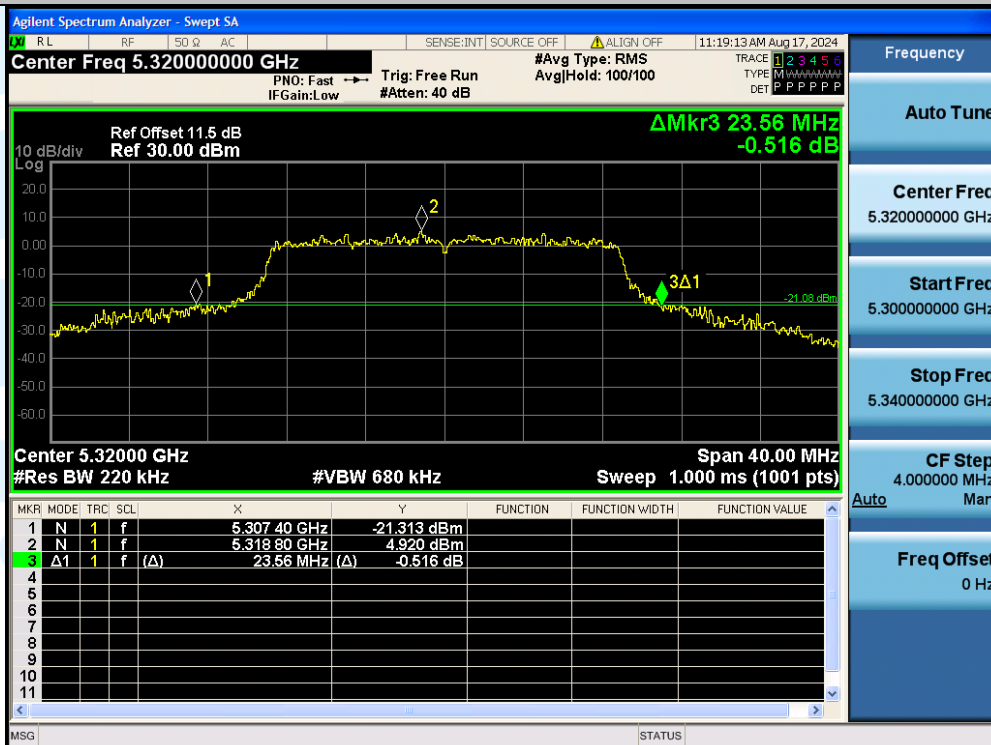
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11N20MIMO-Ant1-5320



11N20MIMO-Ant2-5320

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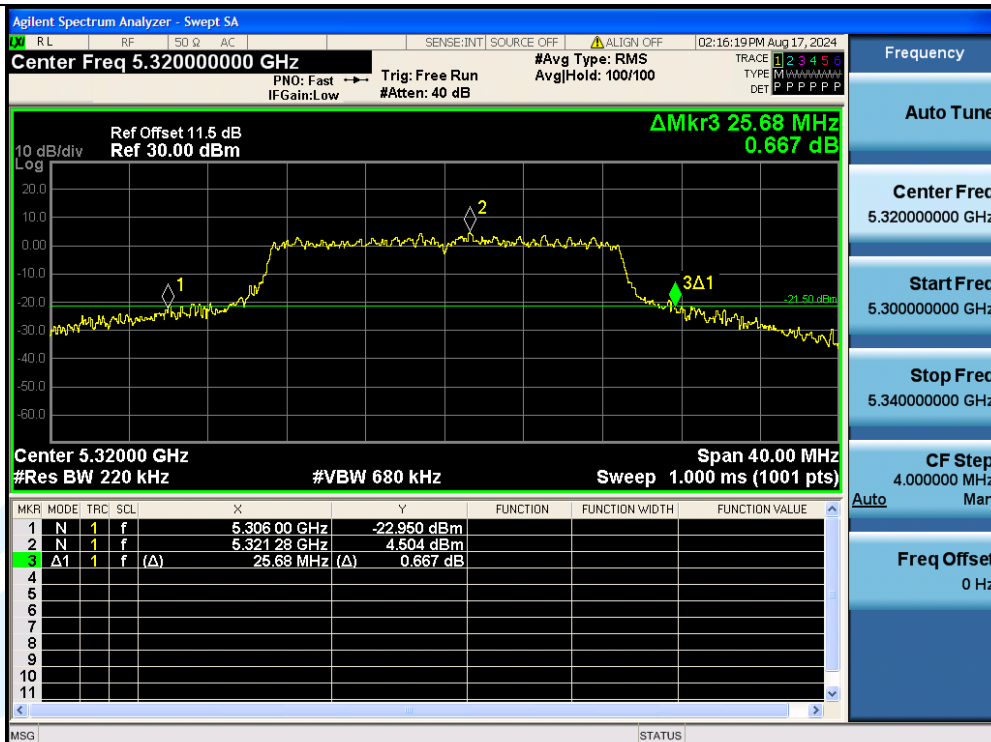
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11N20MIMO-Ant1-5500



11N20MIMO-Ant2-5500

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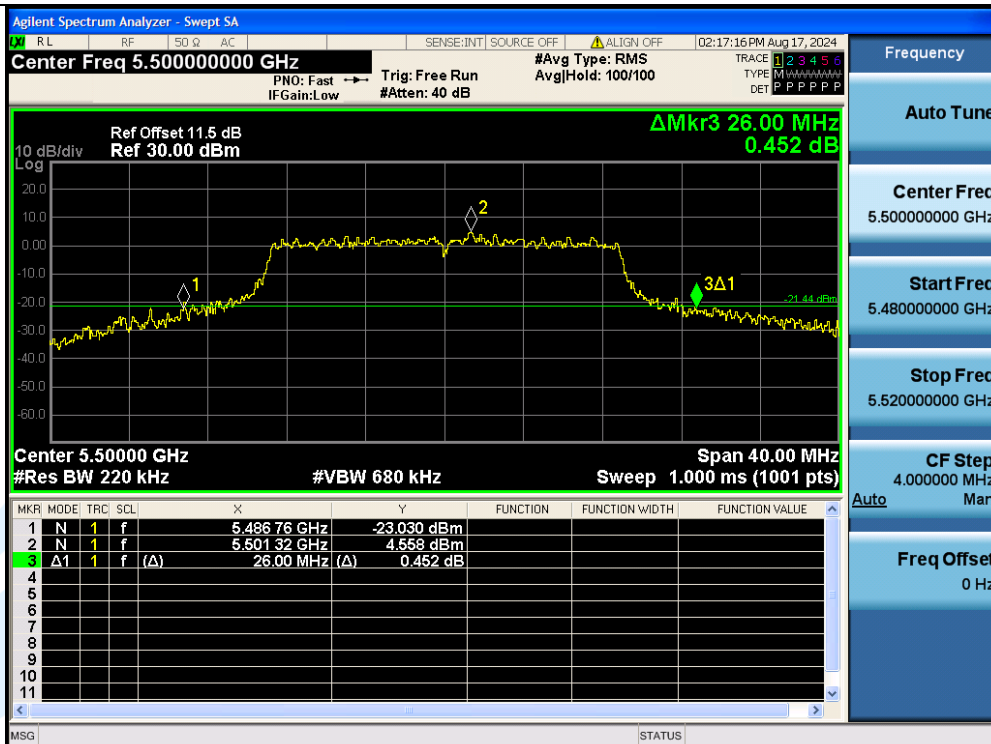
Tel: +86-755-28230888

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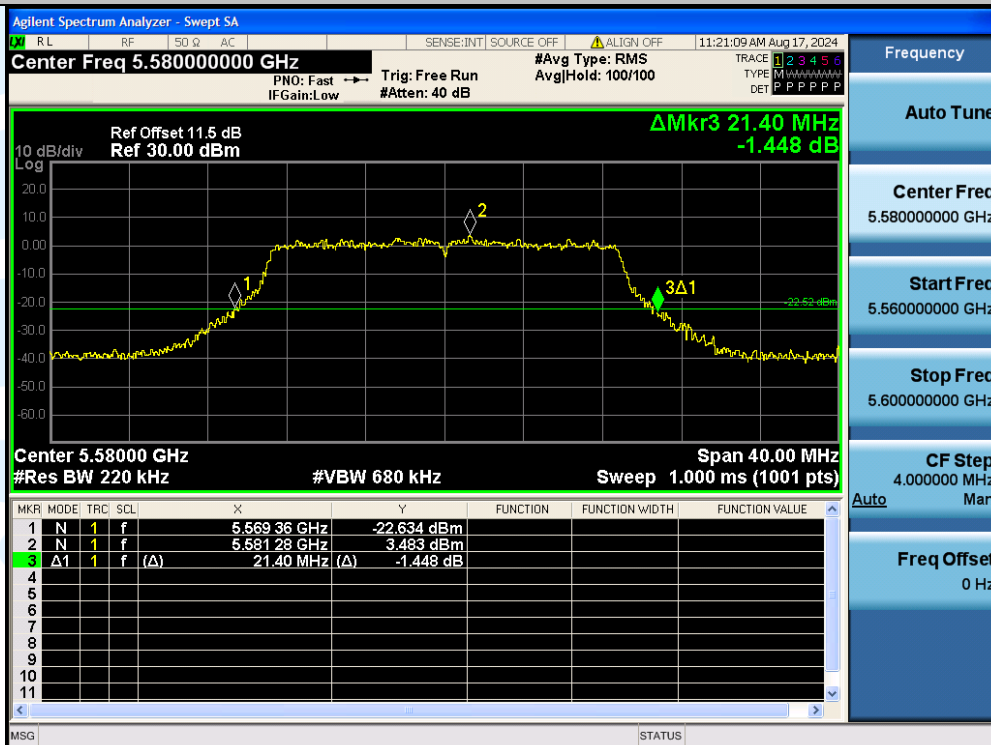
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11N20MIMO-Ant1-5580



11N20MIMO-Ant2-5580

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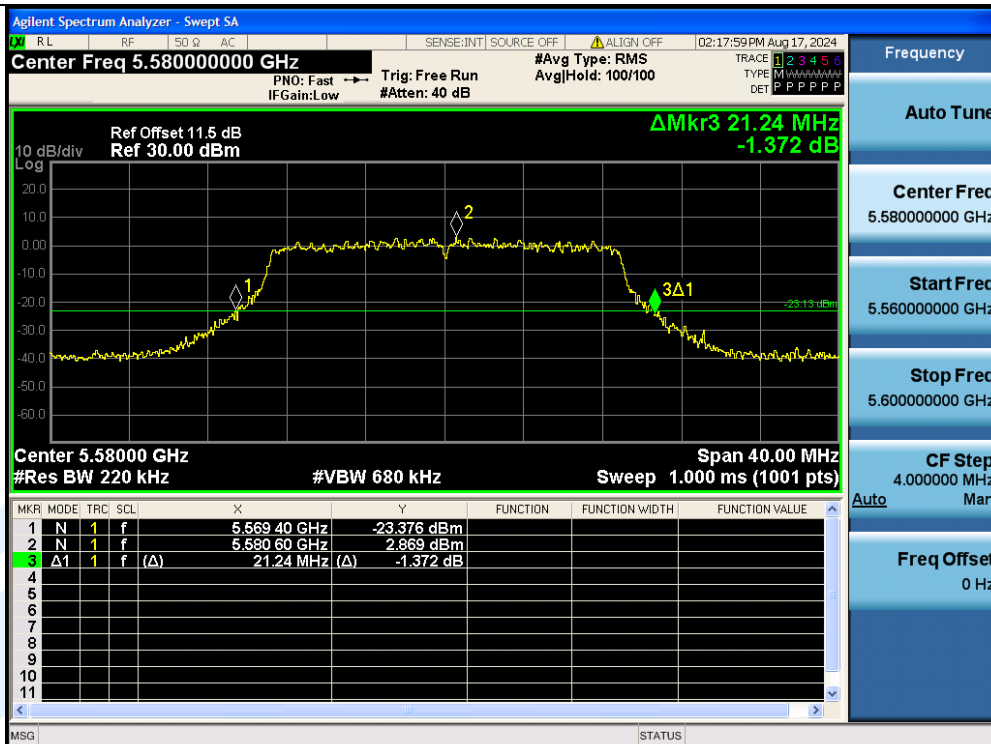
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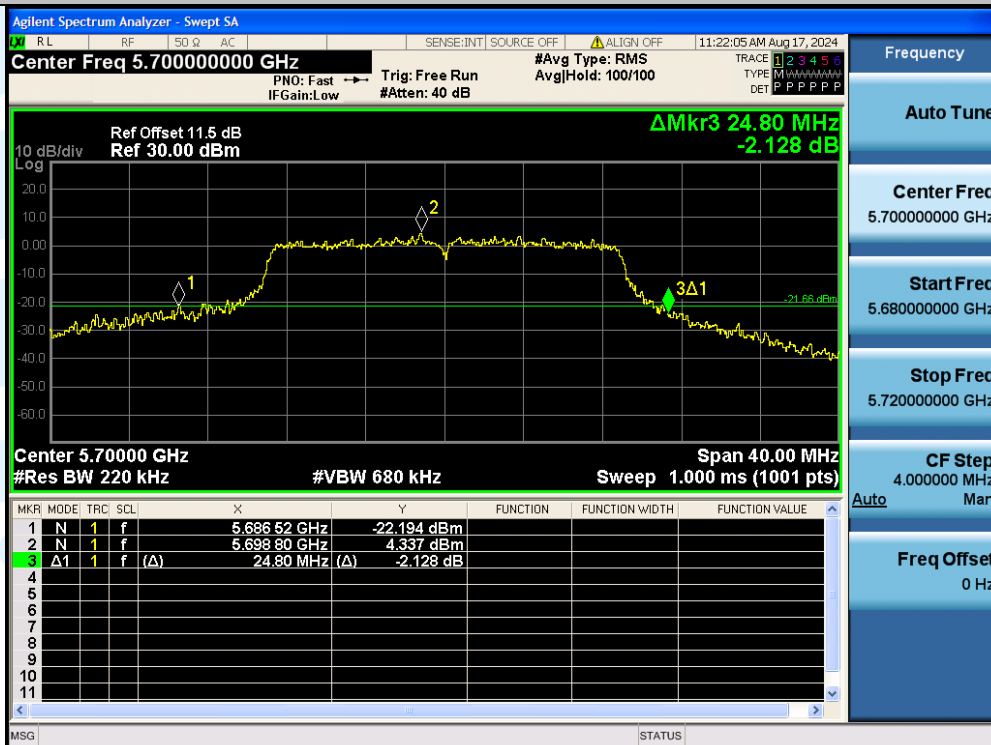
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11N20MIMO-Ant1-5700



11N20MIMO-Ant2-5700

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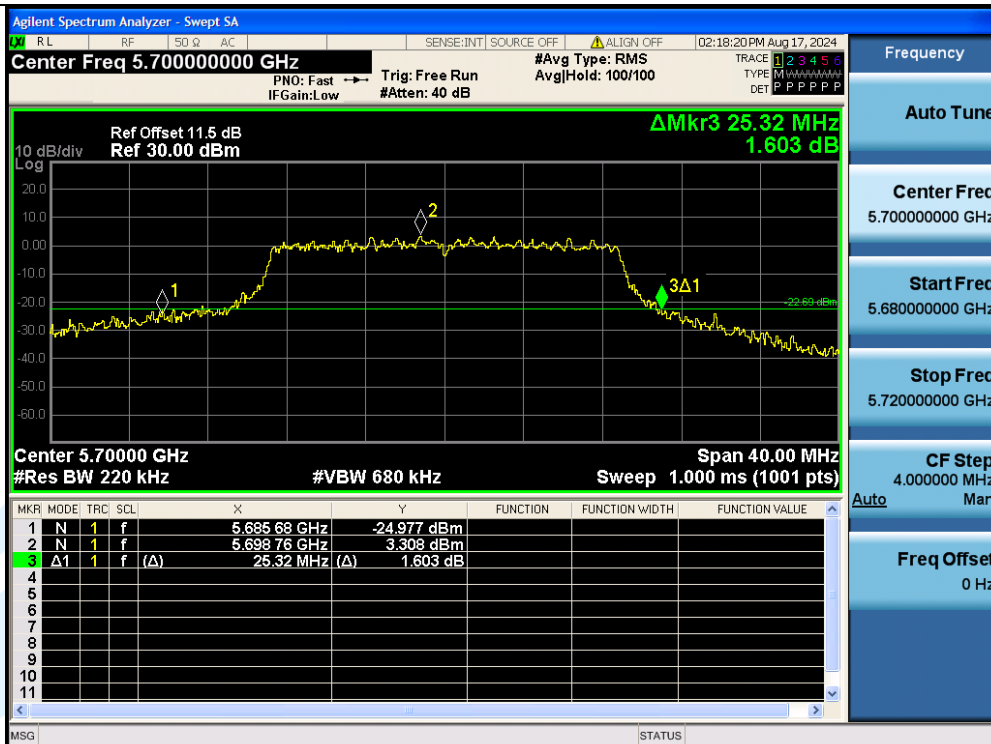
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11N40MIMO-Ant1-5190



11N40MIMO-Ant2-5190

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Fax: +86-755-28230886

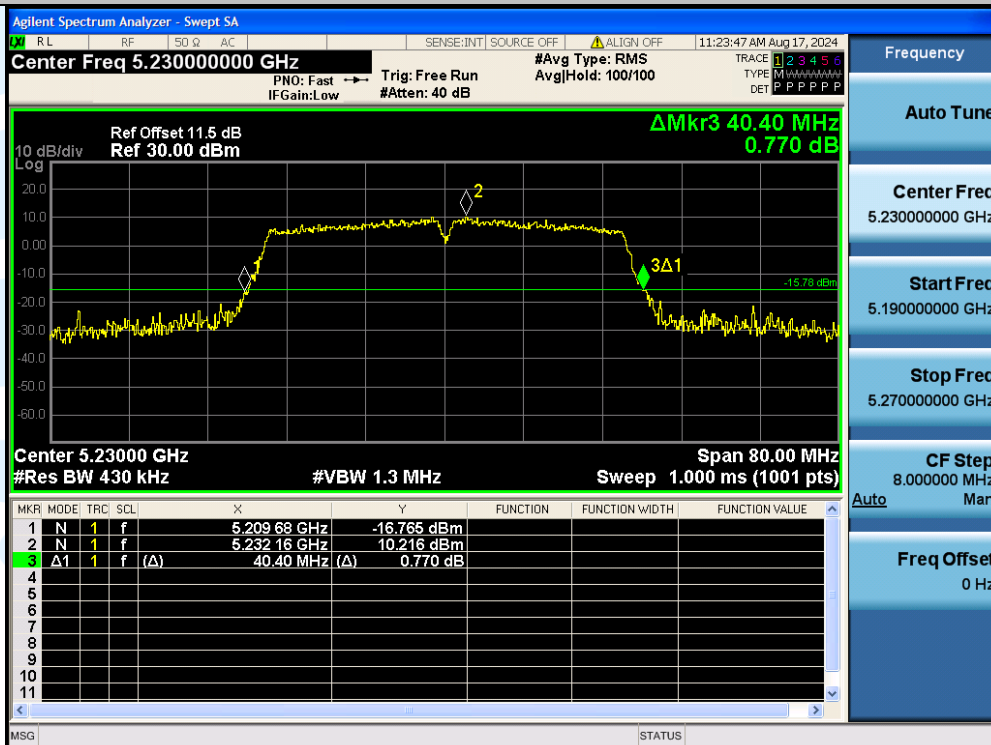
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UTTR-RF-EN300328-V1.2



11N40MIMO-Ant1-5230



11N40MIMO-Ant2-5230

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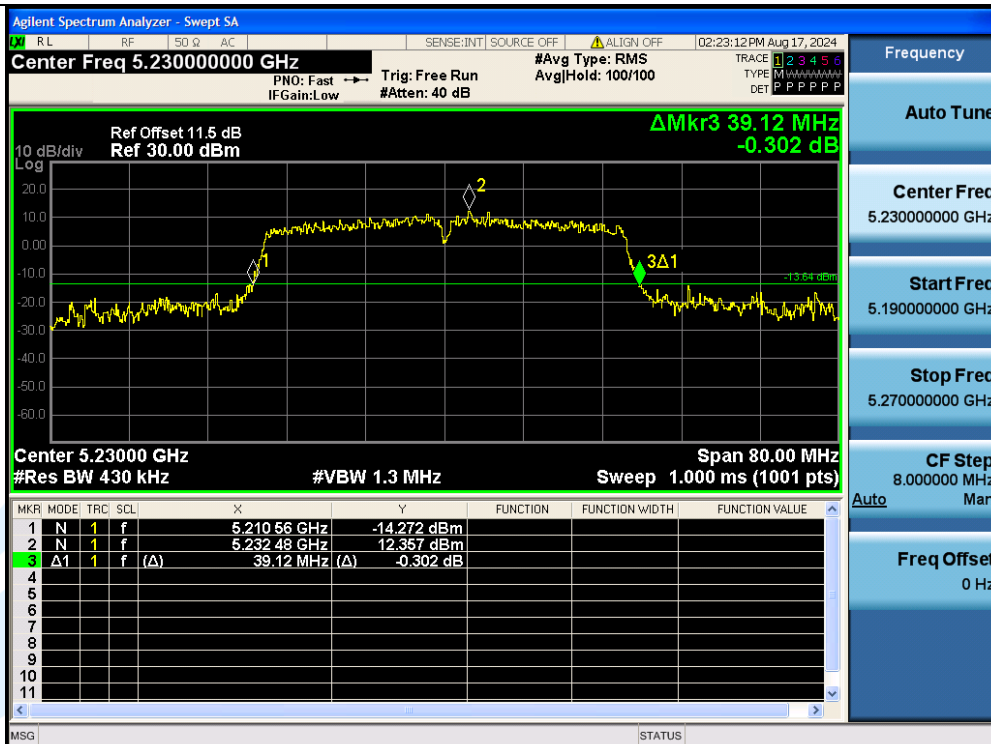
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Fax: +86-755-28230886

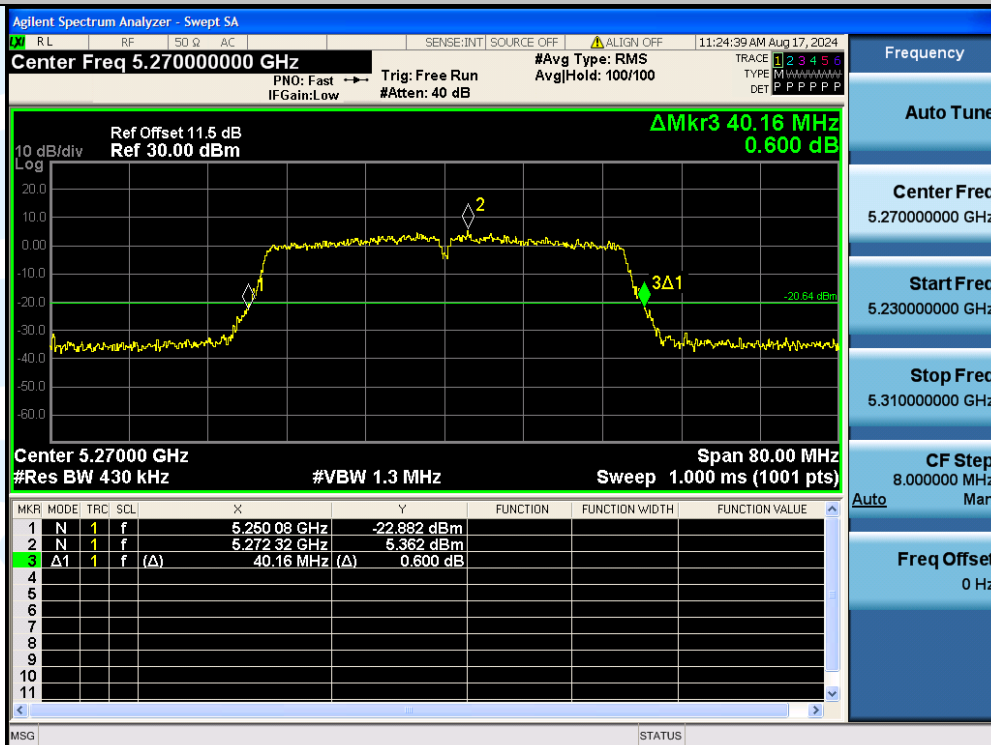
E-mail: info@uttlab.com

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11N40MIMO-Ant1-5270



11N40MIMO-Ant2-5270

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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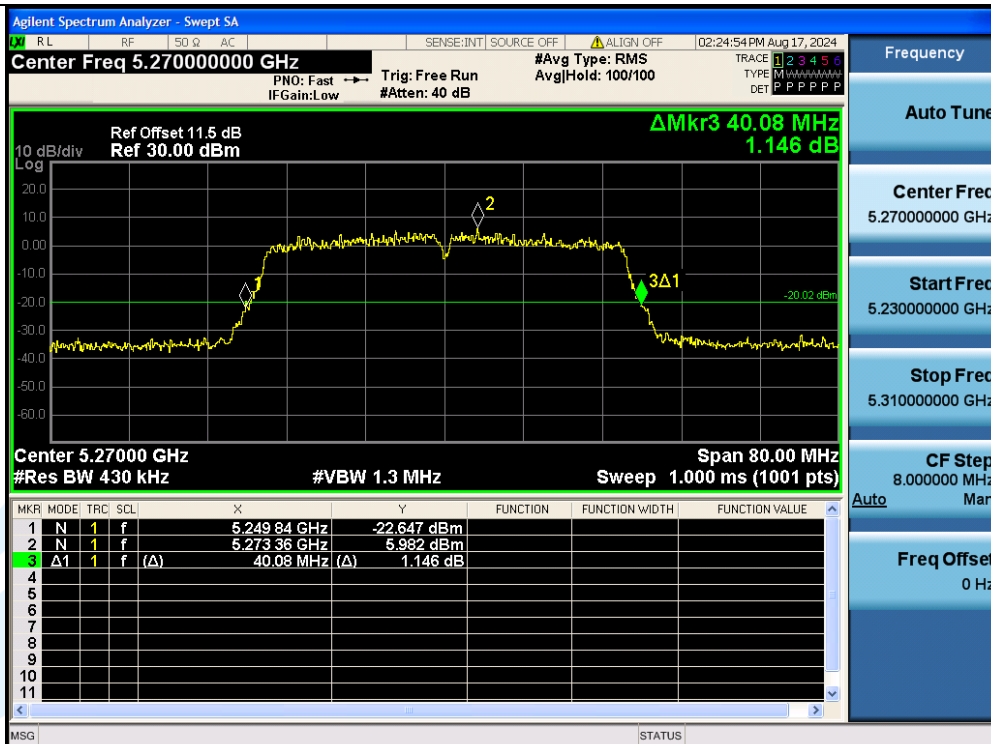
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E-mail: info@uttlab.com

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11N40MIMO-Ant1-5310



11N40MIMO-Ant2-5310

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11N40MIMO-Ant1-5510



11N40MIMO-Ant2-5510

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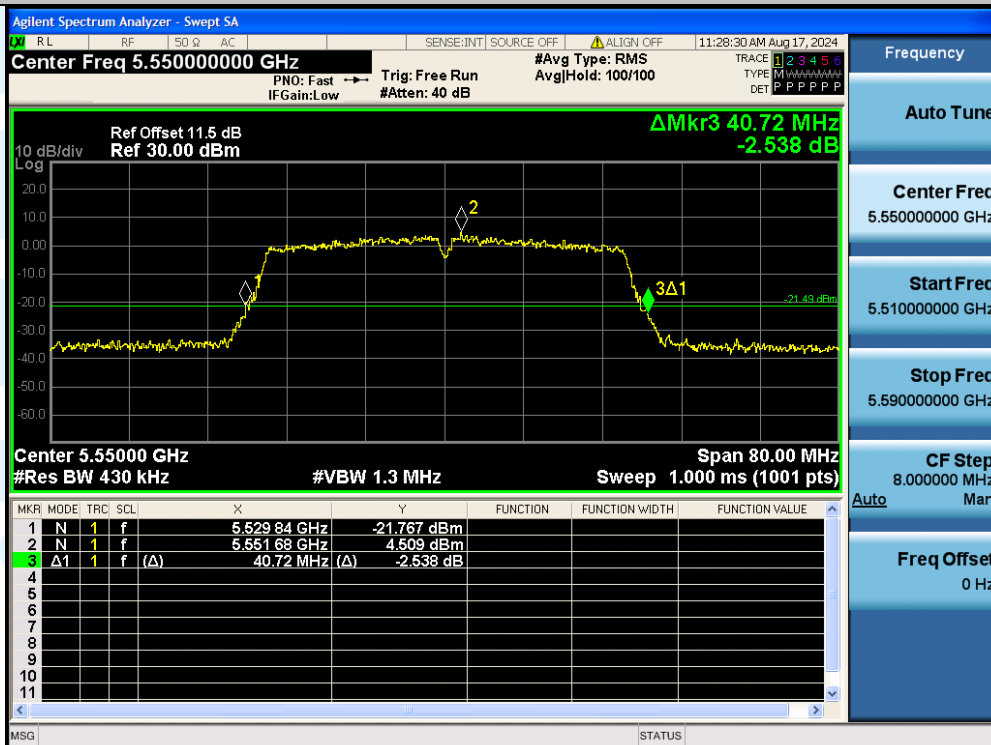
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11N40MIMO-Ant1-5550



11N40MIMO-Ant2-5550

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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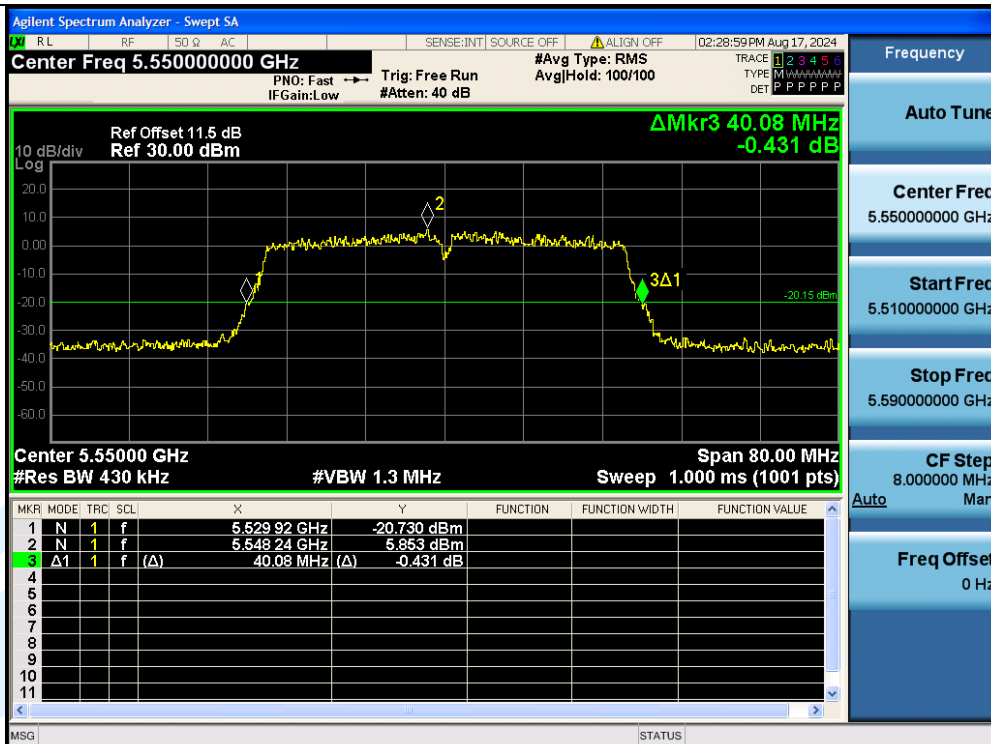
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11N40MIMO-Ant1-5670



11N40MIMO-Ant2-5670

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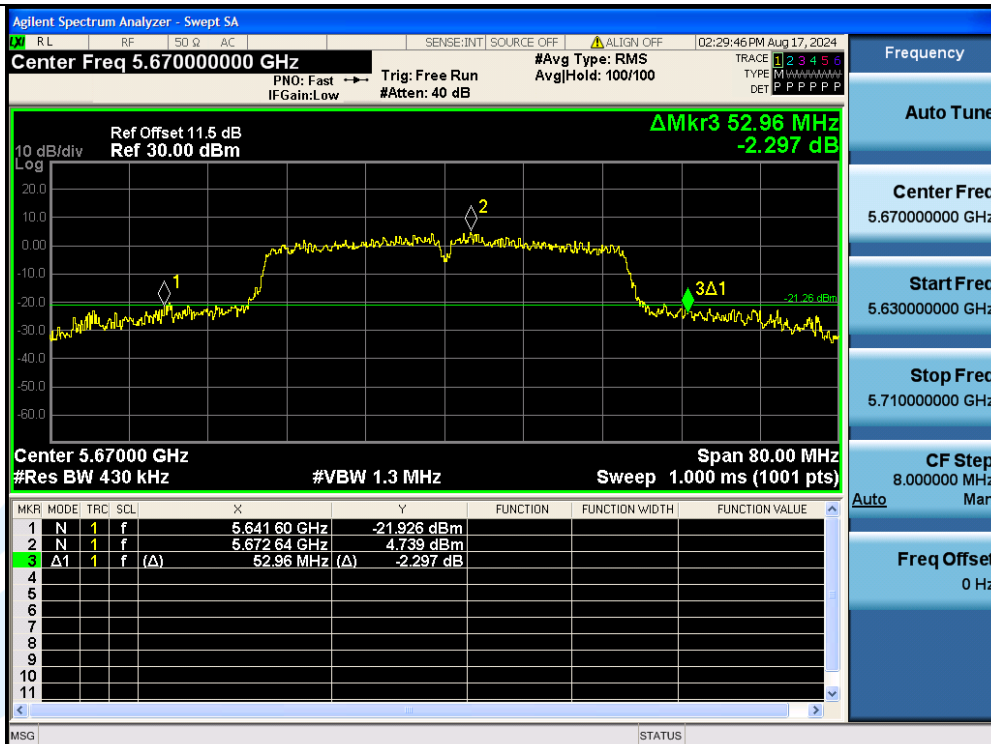
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Fax: +86-755-28230886

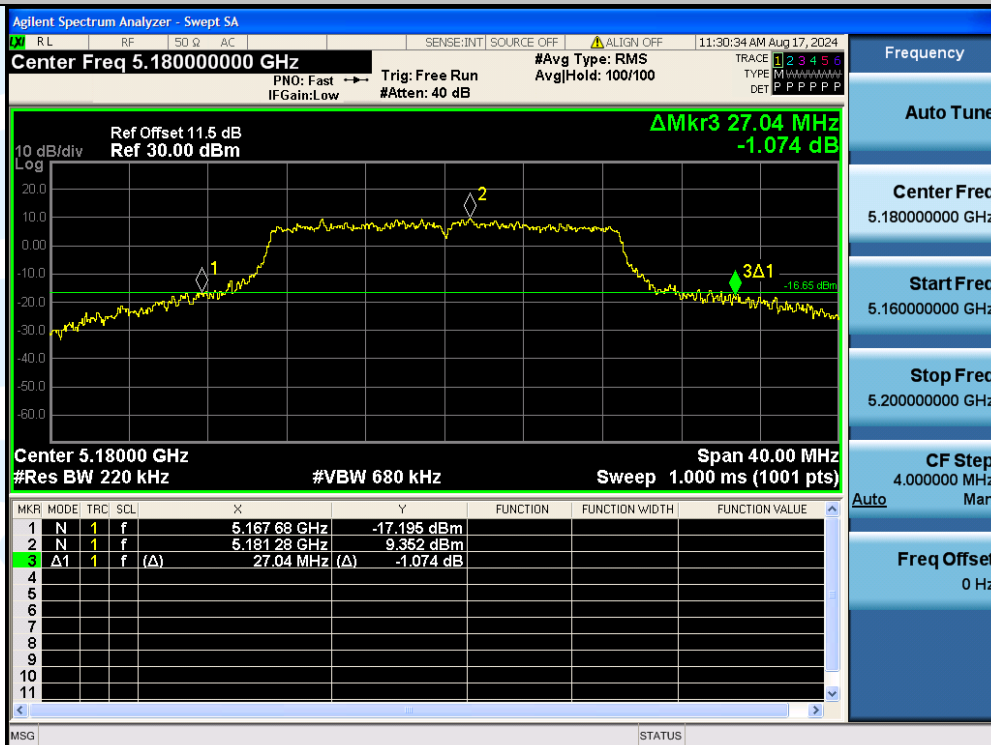
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11AC20MIMO-Ant1-5180



11AC20MIMO-Ant2-5180

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