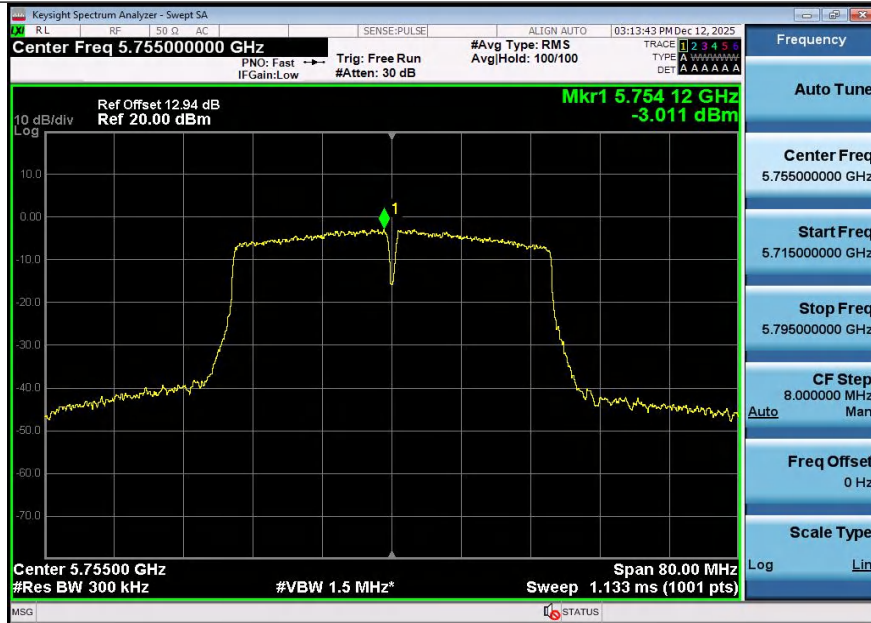




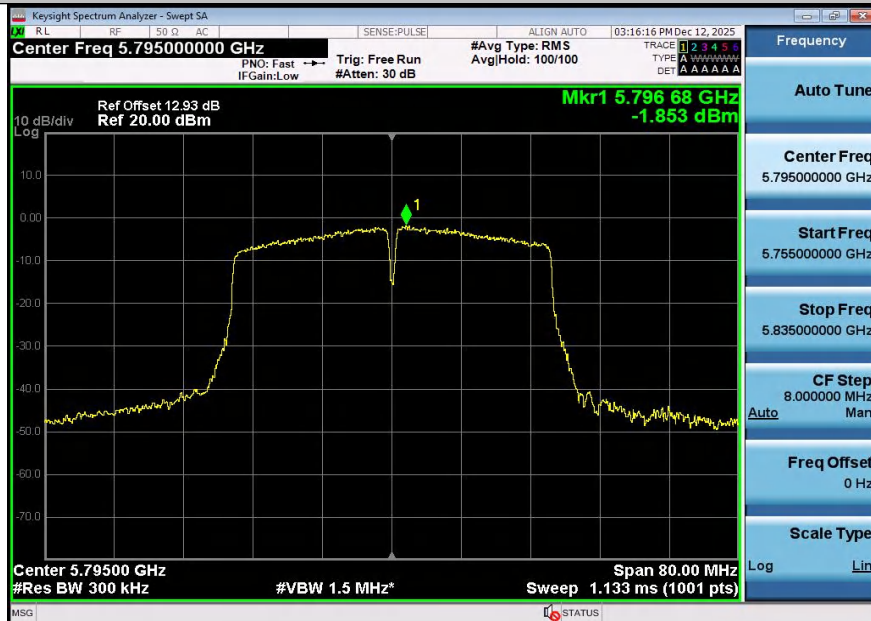
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11AC40SISO-Ant2-5755-PASS



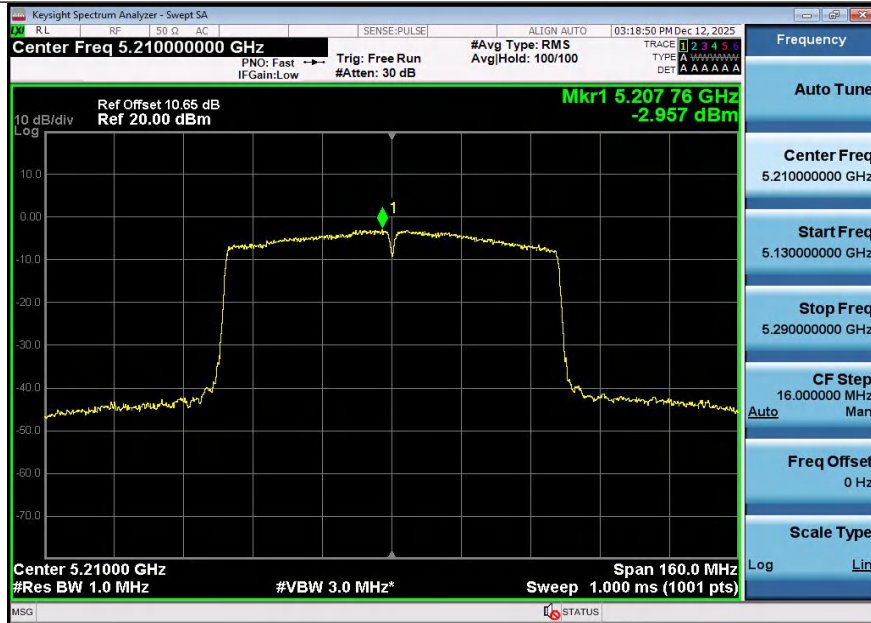
11AC40SISO-Ant2-5795-PASS



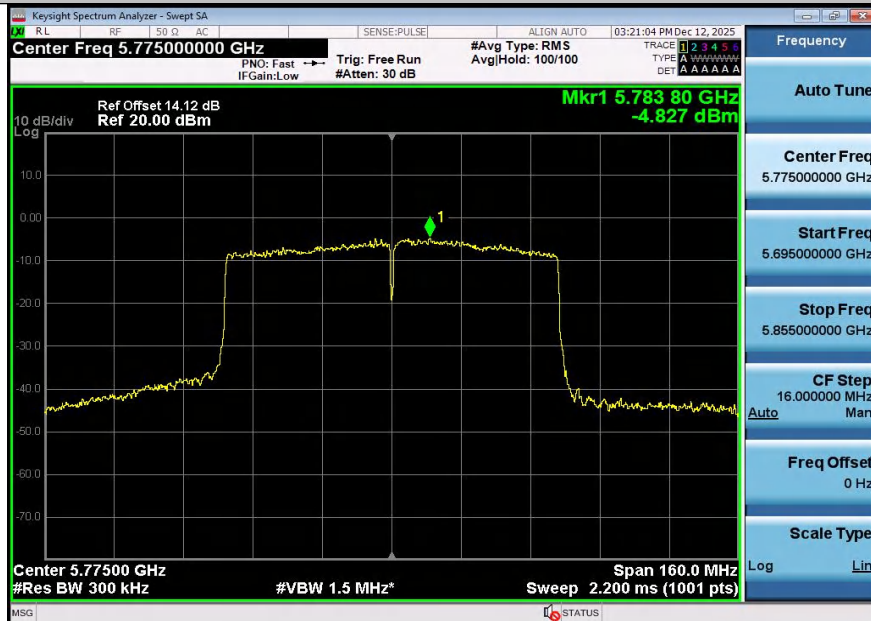
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11AC80SISO-Ant2-5210-PASS



11AC80SISO-Ant2-5775-PASS



MIMO

Test Mode	Frequency [MHz]	Ant 1 Result [dBm]	Ant 2 Result [dBm]	MIMO Result [dBm]	Limit [dBm]	Verdict
11N20SISO	5180	2.69	3.03	5.87	≤10.89	PASS
11N20SISO	5200	3.77	3.23	6.52	≤10.89	PASS
11N20SISO	5240	3.47	2.71	6.12	≤10.89	PASS
11N20SISO	5745	0.23	1.59	3.97	≤29.89	PASS
11N20SISO	5785	0.75	0.72	3.75	≤29.89	PASS
11N20SISO	5825	0.85	0.94	3.91	≤29.89	PASS
11N40SISO	5190	0.93	0.70	3.83	≤10.89	PASS
11N40SISO	5230	-0.12	0.30	3.11	≤10.89	PASS
11N40SISO	5755	-2.59	-2.44	0.50	≤29.89	PASS
11N40SISO	5795	-1.78	-1.83	1.21	≤29.89	PASS
11AC20SISO	5180	3.00	3.04	6.03	≤10.89	PASS
11AC20SISO	5200	3.75	2.99	6.40	≤10.89	PASS
11AC20SISO	5240	3.22	2.57	5.92	≤10.89	PASS
11AC20SISO	5745	0.34	0.50	3.43	≤29.89	PASS
11AC20SISO	5785	1.14	1.23	4.20	≤29.89	PASS
11AC20SISO	5825	0.34	1.34	3.88	≤29.89	PASS
11AC40SISO	5190	0.73	0.50	3.63	≤10.89	PASS
11AC40SISO	5230	0.87	0.32	3.61	≤10.89	PASS
11AC40SISO	5755	-2.47	-3.01	0.28	≤29.89	PASS
11AC40SISO	5795	-1.77	-1.85	1.20	≤29.89	PASS
11AC80SISO	5210	-2.72	-2.96	0.17	≤10.89	PASS
11AC80SISO	5775	-5.83	-4.83	-2.29	≤29.89	PASS

Remark: Directional gain=6.11dBi.



Appendix E: Band edge measurements

Ant 1

Test Result B1/2/3

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-43.35	≤-27	PASS
11A	Ant1	High	5240	-44.42	≤-27	PASS
11N20SISO	Ant1	Low	5180	-42.2	≤-27	PASS
11N20SISO	Ant1	High	5240	-44.89	≤-27	PASS
11N40SISO	Ant1	Low	5190	-42.07	≤-27	PASS
11N40SISO	Ant1	High	5230	-44.94	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-43.55	≤-27	PASS
11AC20SISO	Ant1	High	5240	-43.9	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-40.45	≤-27	PASS
11AC40SISO	Ant1	High	5230	-44.98	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-39.86	≤-27	PASS
11AC80SISO	Ant1	High	5210	-44.33	≤-27	PASS

Test Result B4

Test Mode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-33.62	≤15.82	PASS
11A	Ant1	Low	5745	5700~5720	-34.28	≤15.21	PASS
11A	Ant1	Low	5745	5650~5700	-45.01	≤-26.53	PASS
11A	Ant1	Low	5745	5760~5650	-45.32	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-44.13	≤15.73	PASS
11A	Ant1	High	5825	5855~5875	-44.65	≤10.59	PASS
11A	Ant1	High	5825	5875~5925	-47.16	≤-26.71	PASS
11A	Ant1	High	5825	5925~5935	-44.89	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5720~5725	-27.29	≤19.75	PASS
11N20SI SO	Ant1	Low	5745	5700~5720	-33.41	≤13.28	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-44.77	≤-26.19	PASS
11N20SI SO	Ant1	Low	5745	5760~5650	-45.88	≤-27	PASS
11N20SI	Ant1	High	5825	5850~5855	-42.62	≤15.73	PASS



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SO							
11N20SI SO	Ant1	High	5825	5855~5875	-44.3	≤11.31	PASS
11N20SI SO	Ant1	High	5825	5875~5925	-46.1	≤-26.41	PASS
11N20SI SO	Ant1	High	5825	5925~5935	-44.85	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5720~5725	-22.54	≤15.74	PASS
11N40SI SO	Ant1	Low	5755	5700~5720	-22.87	≤15.50	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-41.97	≤-26.90	PASS
11N40SI SO	Ant1	Low	5755	5780~5650	-41.77	≤-27	PASS
11N40SI SO	Ant1	High	5795	5925~5935	-45.63	≤-27	PASS
11N40SI SO	Ant1	High	5795	5850~5855	-46.11	≤16.03	PASS
11N40SI SO	Ant1	High	5795	5855~5875	-46.8	≤10.02	PASS
11N40SI SO	Ant1	High	5795	5875~5925	-46.38	≤-26.46	PASS
11AC20S ISO	Ant1	Low	5745	5720~5725	-28.04	≤21.32	PASS
11AC20S ISO	Ant1	Low	5745	5700~5720	-29.3	≤14.98	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-46.6	≤-26.96	PASS
11AC20S ISO	Ant1	Low	5745	5760~5650	-46.54	≤-27	PASS
11AC20S ISO	Ant1	High	5825	5850~5855	-44.92	≤15.73	PASS
11AC20S ISO	Ant1	High	5825	5855~5875	-45.31	≤10.32	PASS
11AC20S ISO	Ant1	High	5825	5875~5925	-46.13	≤-26.21	PASS
11AC20S ISO	Ant1	High	5825	5925~5935	-45.47	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5720~5725	-28.29	≤16.66	PASS



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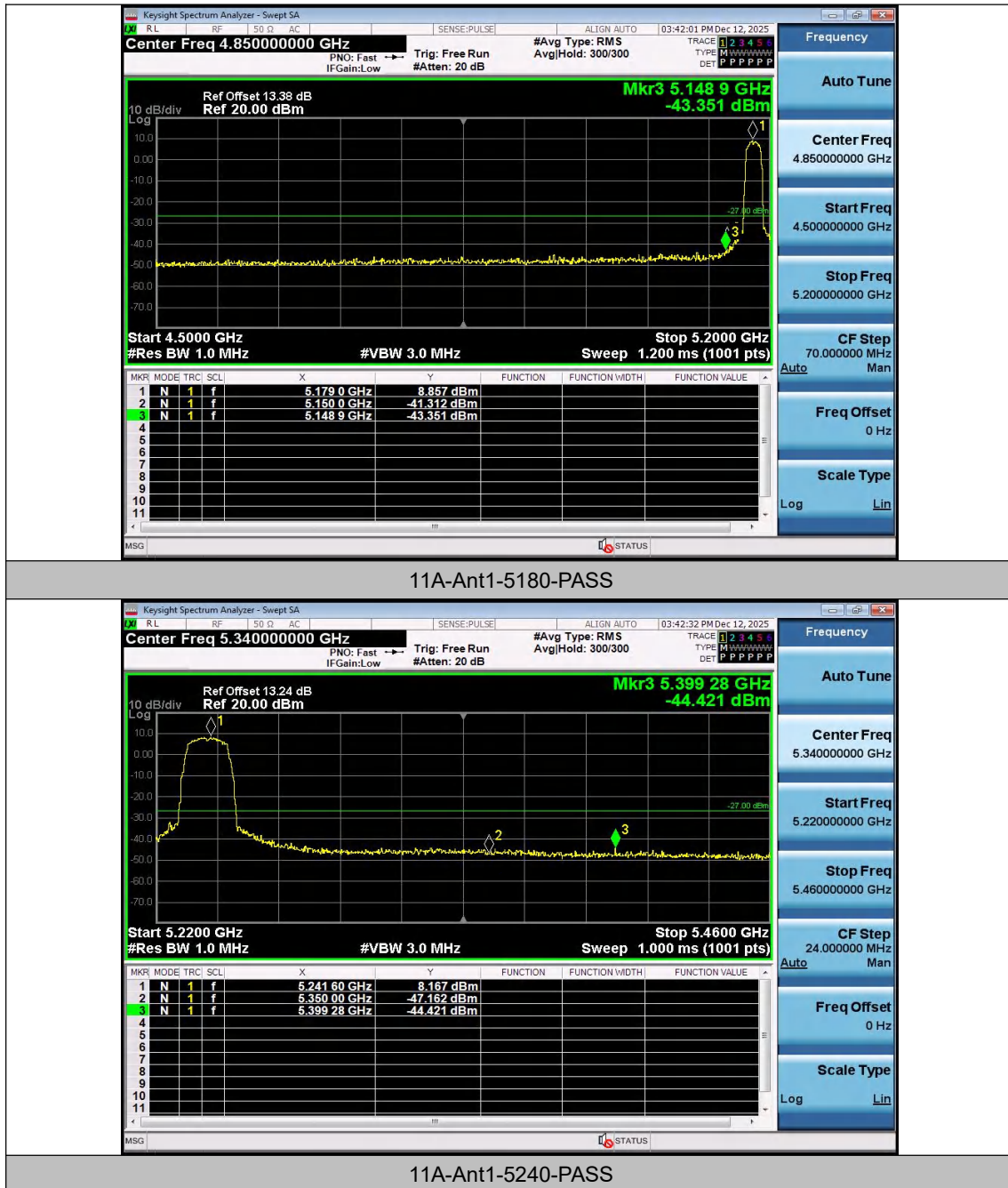
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11AC40S ISO	Ant1	Low	5755	5700~5720	-30.85	≤10.32	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-46.19	≤-26.40	PASS
11AC40S ISO	Ant1	Low	5755	5780~5650	-46.34	≤-27	PASS
11AC40S ISO	Ant1	High	5795	5850~5855	-41.9	≤17.16	PASS
11AC40S ISO	Ant1	High	5795	5855~5875	-46.15	≤10.29	PASS
11AC40S ISO	Ant1	High	5795	5875~5925	-47.5	≤-26.59	PASS
11AC40S ISO	Ant1	High	5795	5925~5935	-46.51	≤-27	PASS
11AC80S ISO	Ant1	Low	5775	5720~5725	-31.32	≤15.65	PASS
11AC80S ISO	Ant1	Low	5775	5700~5720	-30.16	≤11.70	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-44.03	≤-26.46	PASS
11AC80S ISO	Ant1	Low	5775	5800~5650	-42.01	≤-27	PASS
11AC80S ISO	Ant1	High	5775	5850~5855	-38.31	≤16.68	PASS
11AC80S ISO	Ant1	High	5775	5855~5875	-38.55	≤11.54	PASS
11AC80S ISO	Ant1	High	5775	5875~5925	-46.26	≤-26.73	PASS
11AC80S ISO	Ant1	High	5775	5925~5935	-46.1	≤-27	PASS



Test Graphs B1/2/3

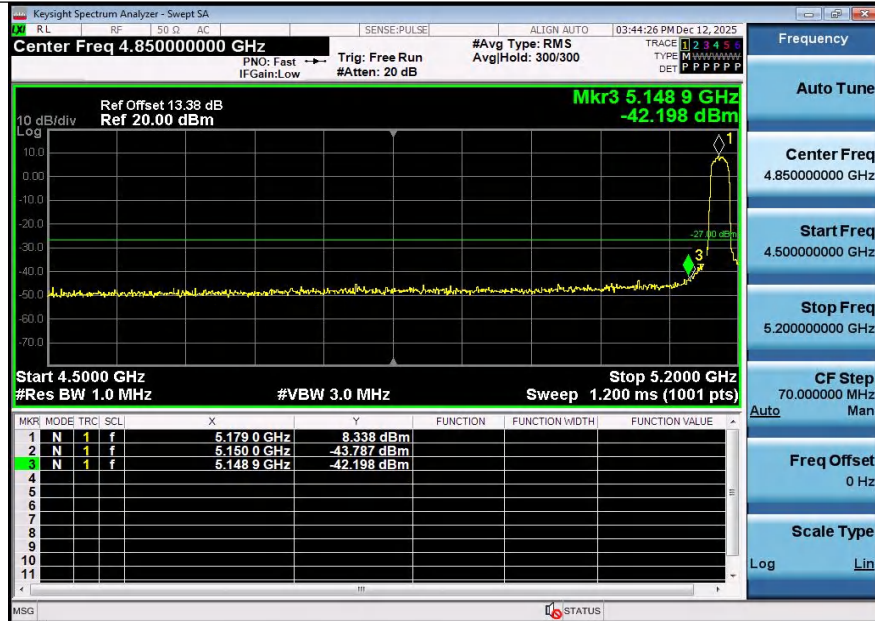




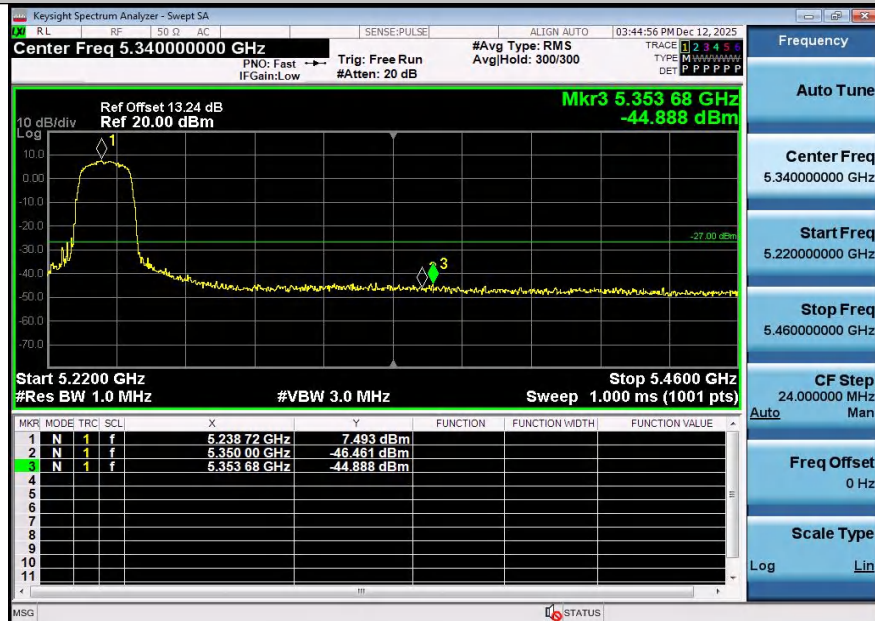
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11N20SISO-Ant1-5180-PASS



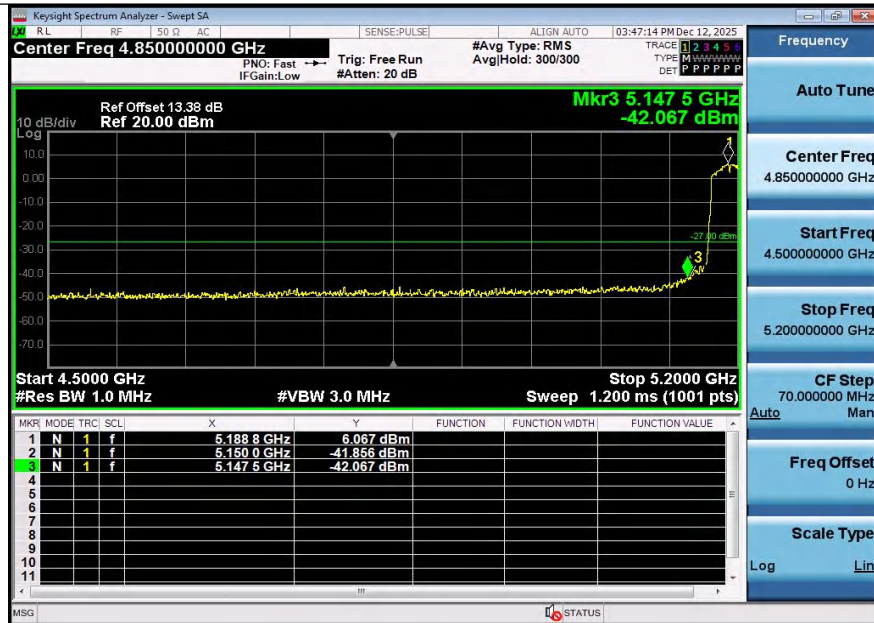
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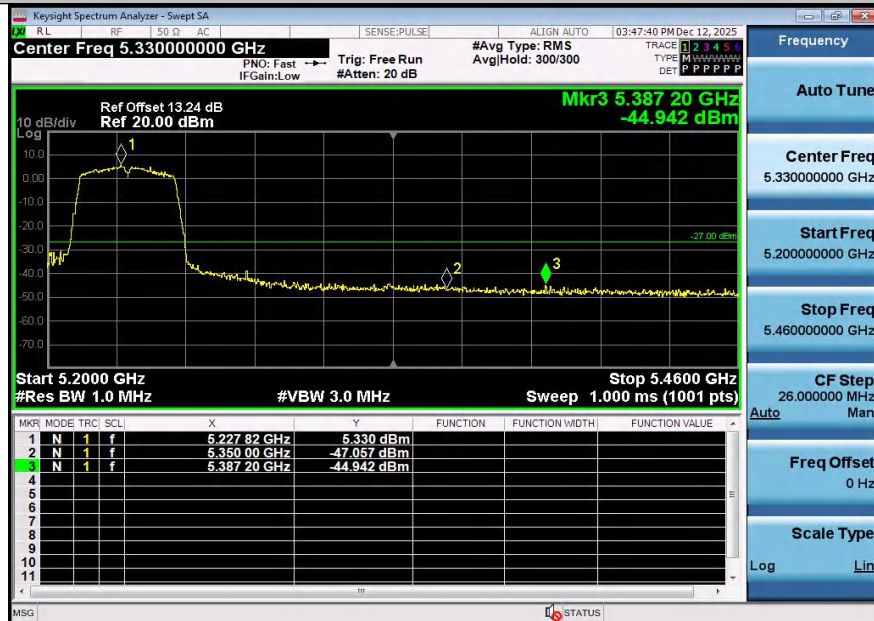
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11N40SISO-Ant1-5190-PASS



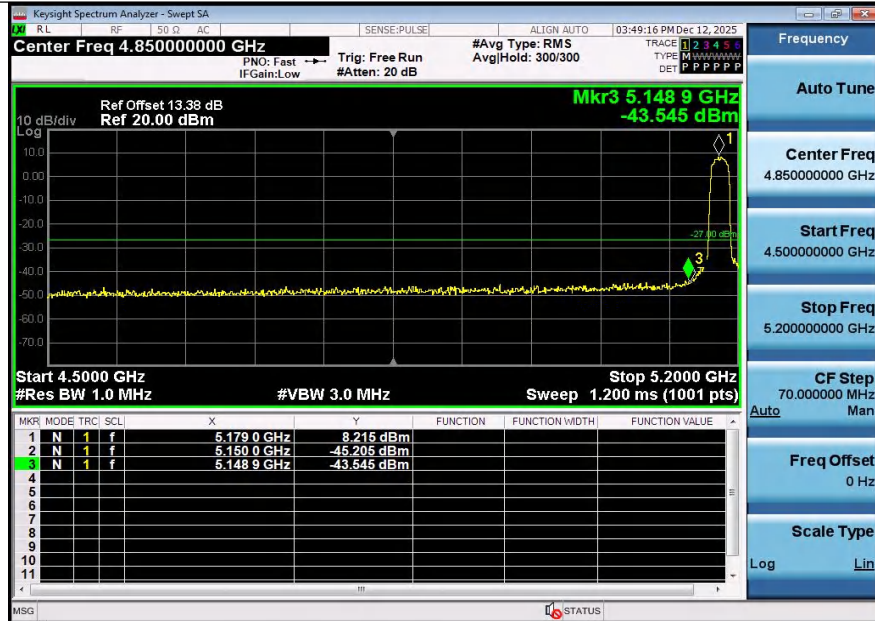
11N40SISO-Ant1-5230-PASS



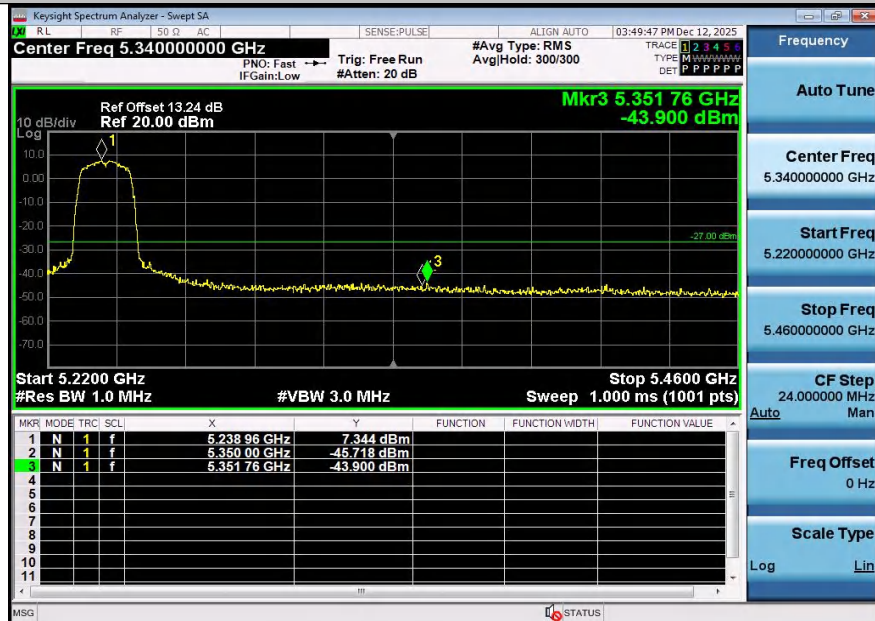
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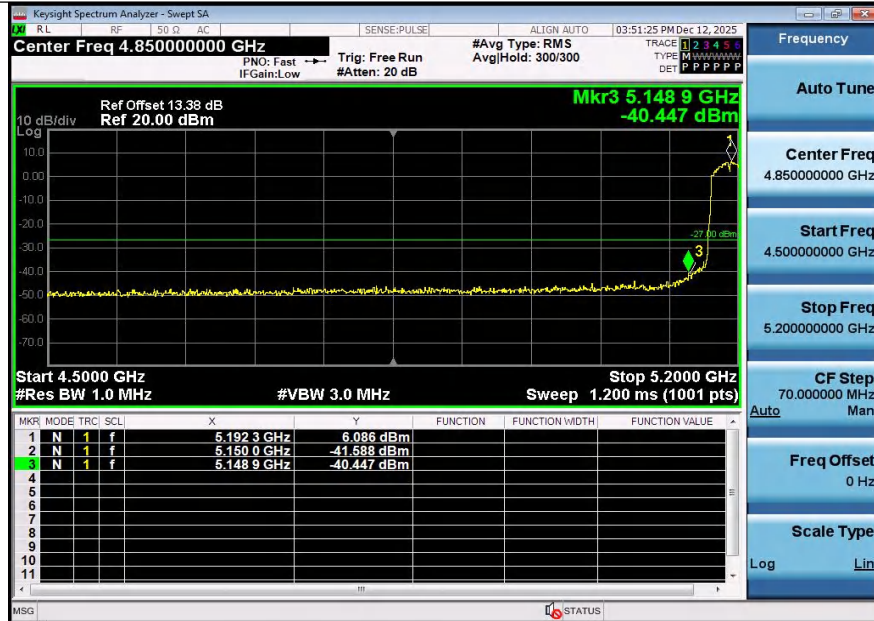
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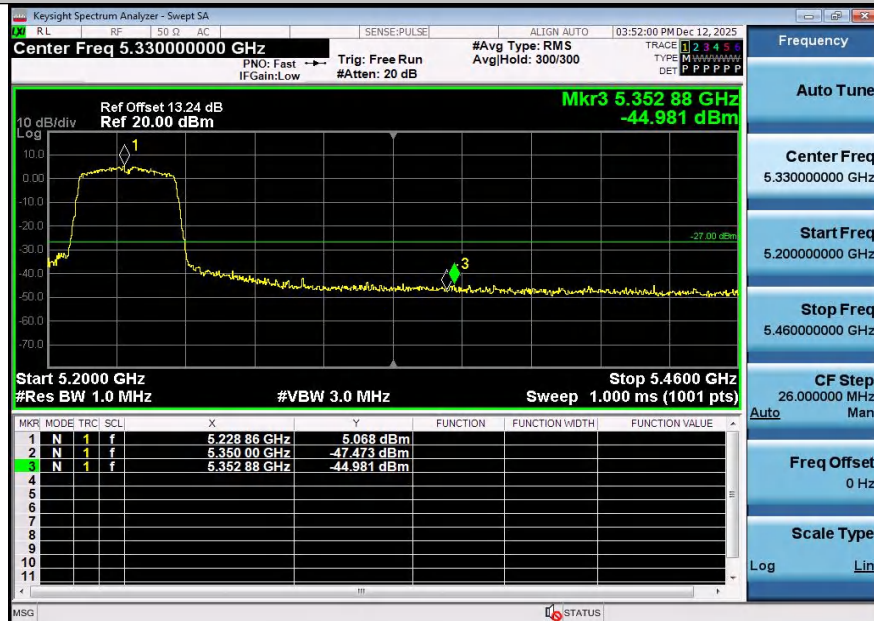
11AC20SISO-Ant1-5180-PASS



11AC20SISO-Ant1-5240-PASS



11AC40SISO-Ant1-5190-PASS



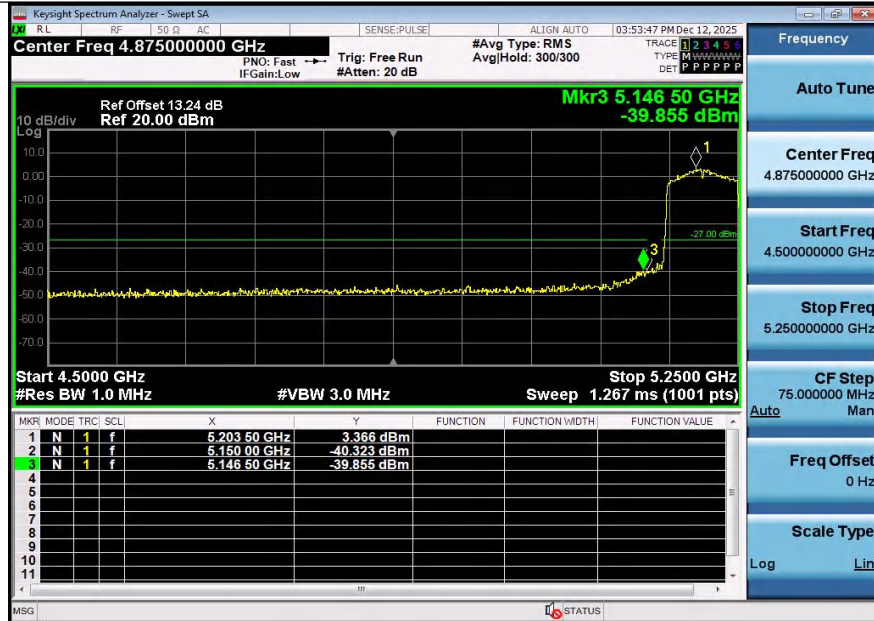
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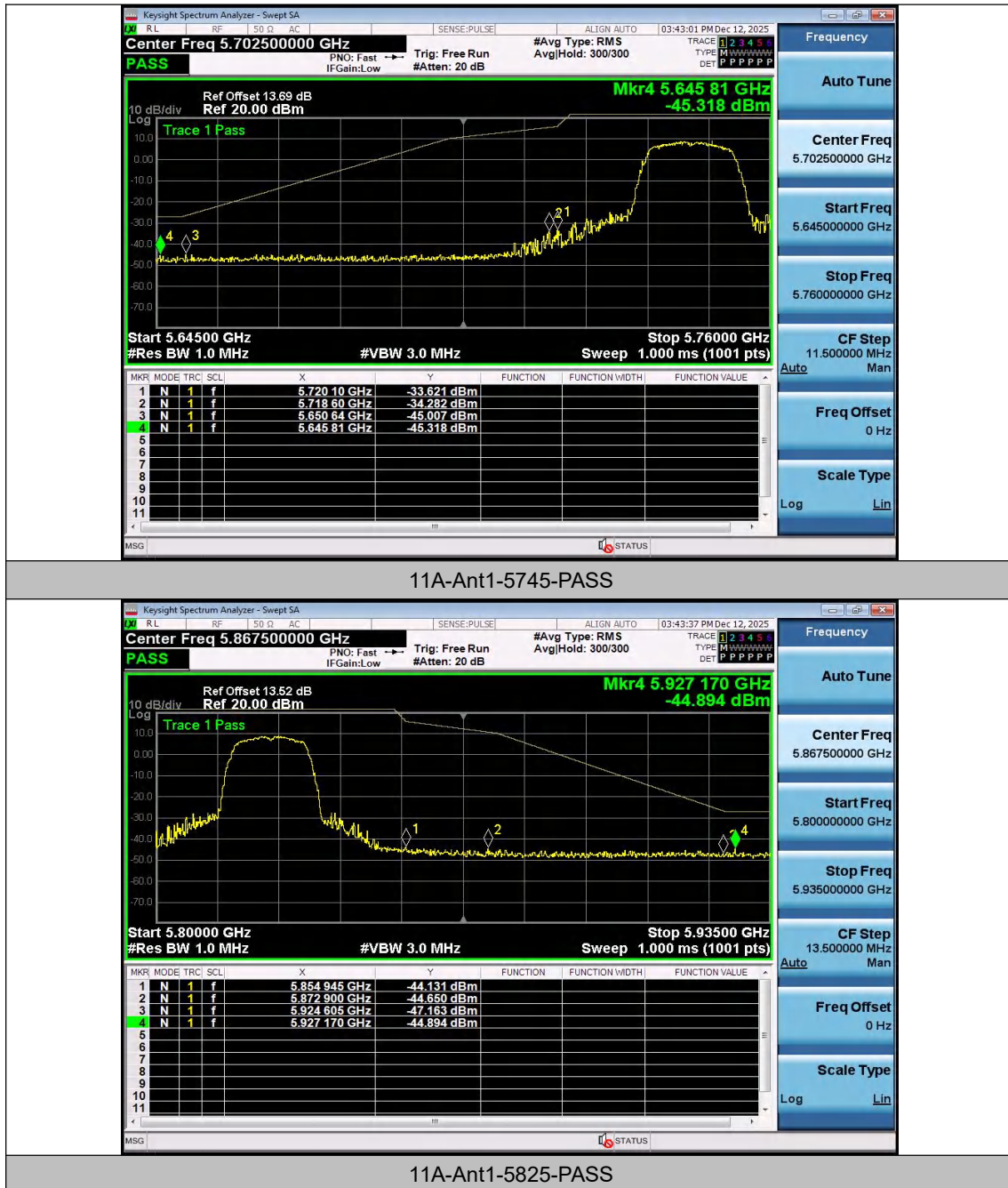
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11AC80SISO-Ant1-5210-PASS



Test Graphs B4

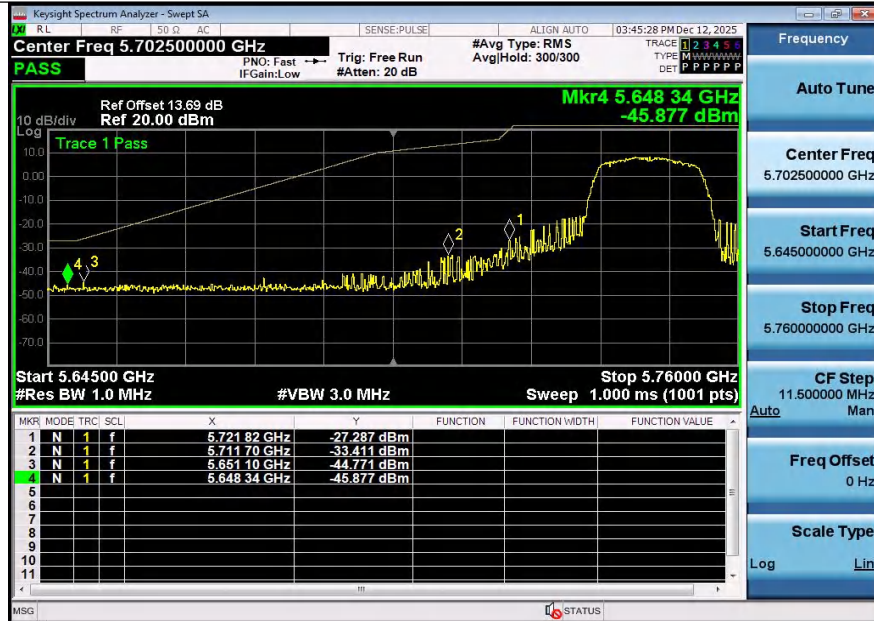




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11N20SISO-Ant1-5745-PASS



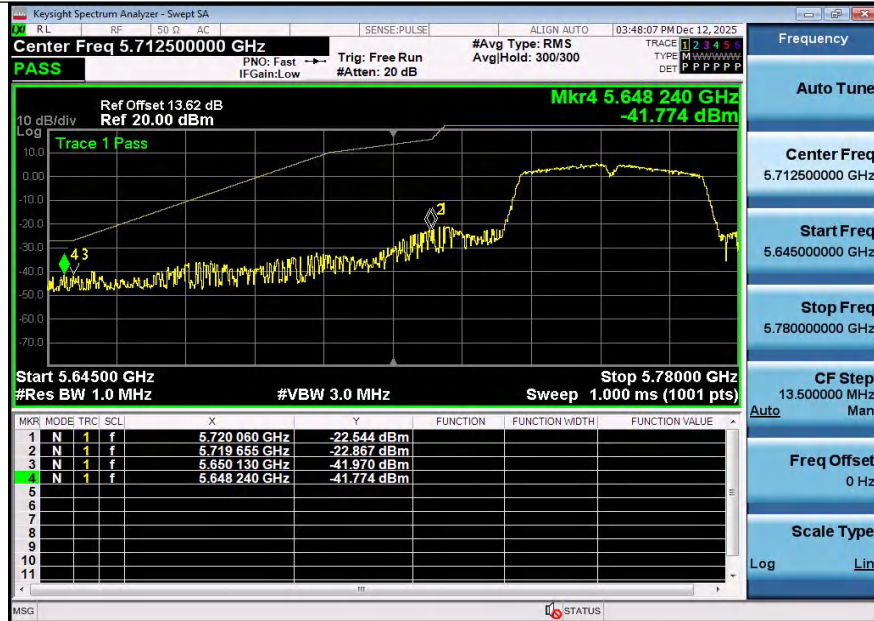
11N20SISO-Ant1-5825-PASS



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11N40SISO-Ant1-5755-PASS



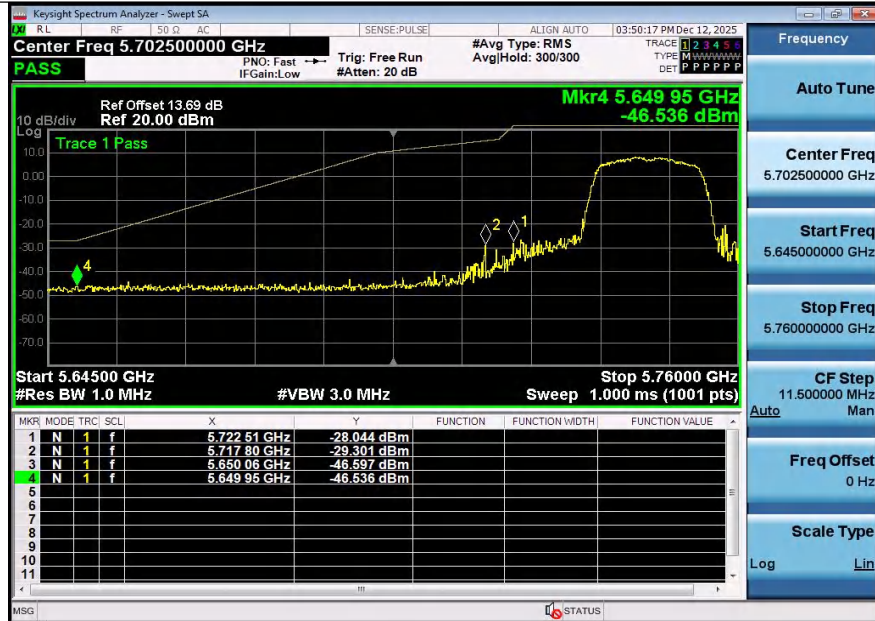
11N40SISO-Ant1-5795-PASS



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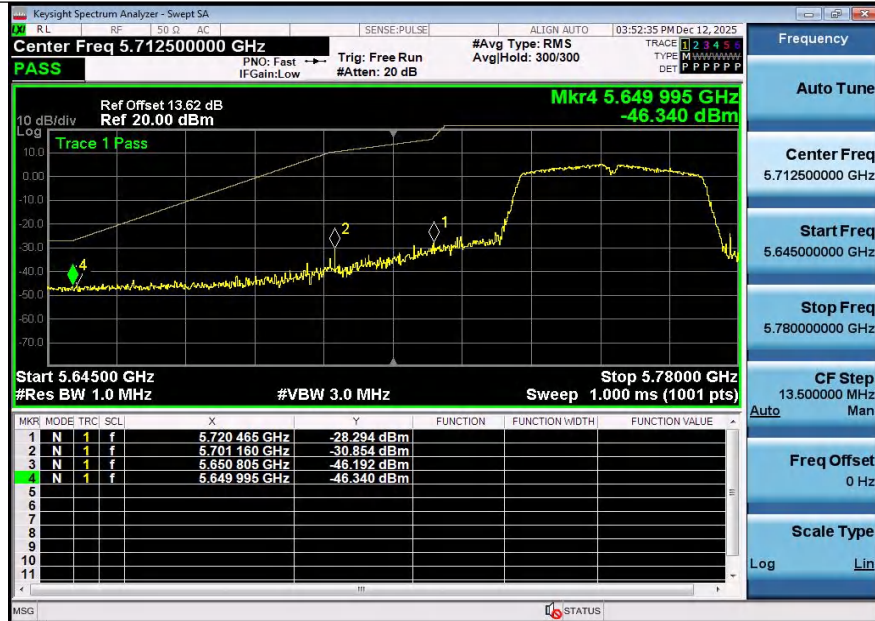
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11AC20SISO-Ant1-5745-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



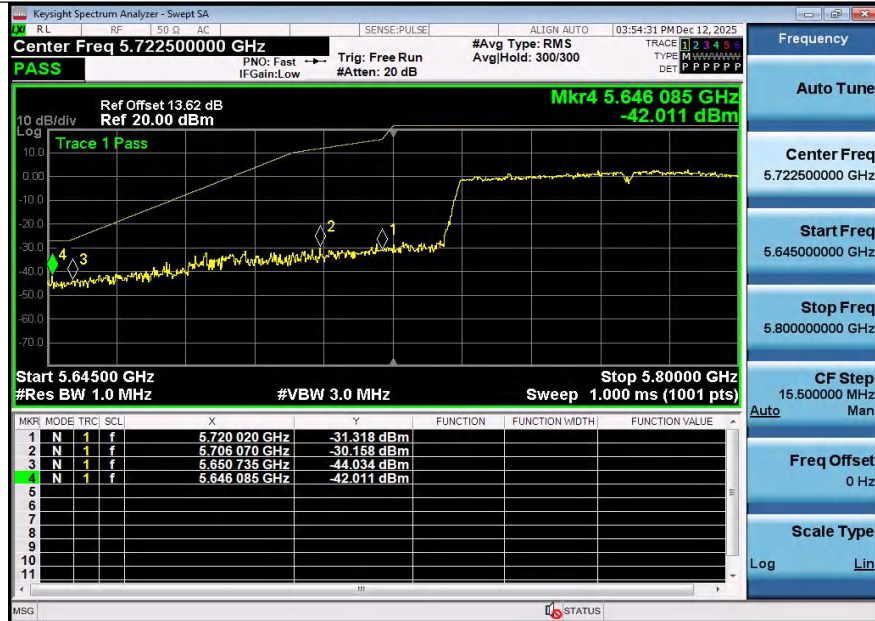
11AC40SISO-Ant1-5795-PASS



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11AC80SISO-Ant1-5775-PASS



11AC80SISO-Ant1-5775-PASS



Ant 2

Test Result B1/2/3

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-42.67	≤-27	PASS
11A	Ant2	High	5240	-46.92	≤-27	PASS
11N20SISO	Ant2	Low	5180	-38.8	≤-27	PASS
11N20SISO	Ant2	High	5240	-46.62	≤-27	PASS
11N40SISO	Ant2	Low	5190	-38.32	≤-27	PASS
11N40SISO	Ant2	High	5230	-45.96	≤-27	PASS
11AC20SISO	Ant2	Low	5180	-42.92	≤-27	PASS
11AC20SISO	Ant2	High	5240	-46.02	≤-27	PASS
11AC40SISO	Ant2	Low	5190	-41.89	≤-27	PASS
11AC40SISO	Ant2	High	5230	-46.58	≤-27	PASS
11AC80SISO	Ant2	Low	5210	-38.24	≤-27	PASS
11AC80SISO	Ant2	High	5210	-46.19	≤-27	PASS

Test Result B4

Test Mode	Antenna	ChName	Frequency[MHz]	FreqRange[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5745	5720~5725	-30.23	≤22.11	PASS
11A	Ant2	Low	5745	5700~5720	-33.29	≤15.14	PASS
11A	Ant2	Low	5745	5650~5700	-42.98	≤-26.96	PASS
11A	Ant2	Low	5745	5760~5650	-42.38	≤-27	PASS
11A	Ant2	High	5825	5850~5855	-41.04	≤17.26	PASS
11A	Ant2	High	5825	5855~5875	-43.94	≤10.36	PASS
11A	Ant2	High	5825	5875~5925	-44.85	≤-26.51	PASS
11A	Ant2	High	5825	5925~5935	-43.62	≤-27	PASS
11N20SISO	Ant2	Low	5745	5720~5725	-34.08	≤16.87	PASS
11N20SISO	Ant2	Low	5745	5700~5720	-33.87	≤14.60	PASS
11N20SISO	Ant2	Low	5745	5650~5700	-43.85	≤-26.70	PASS
11N20SISO	Ant2	Low	5745	5760~5650	-42.77	≤-27	PASS
11N20SISO	Ant2	High	5825	5850~5855	-33.39	≤15.73	PASS



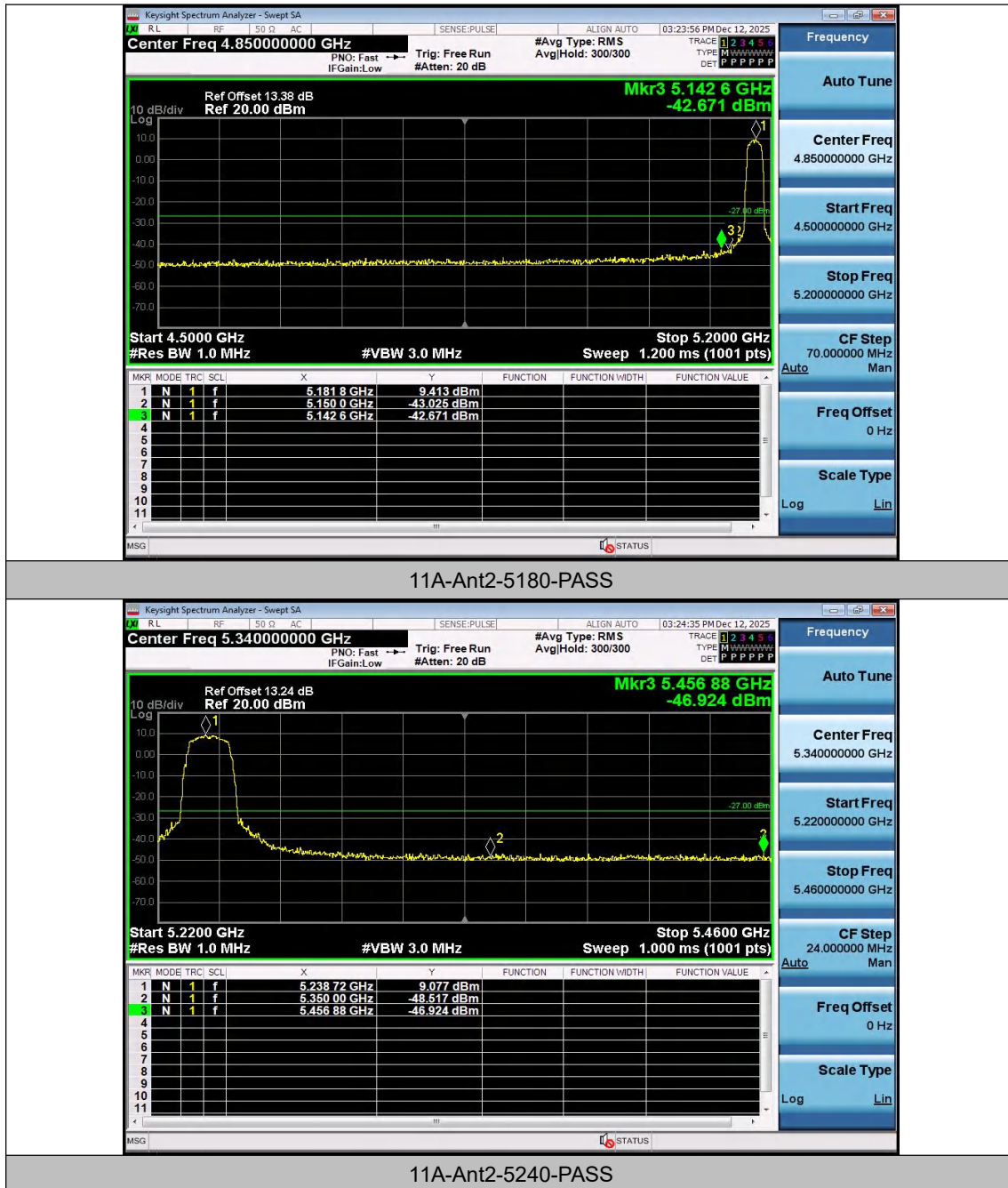
11N20SI SO	Ant2	High	5825	5855~5875	-35.85	≤15.16	PASS
11N20SI SO	Ant2	High	5825	5875~5925	-45.06	≤-26.91	PASS
11N20SI SO	Ant2	High	5825	5925~5935	-43.83	≤-27	PASS
11N40SI SO	Ant2	Low	5755	5720~5725	-31.15	≤16.04	PASS
11N40SI SO	Ant2	Low	5755	5700~5720	-30.86	≤15.54	PASS
11N40SI SO	Ant2	Low	5755	5650~5700	-43.52	≤-26.40	PASS
11N40SI SO	Ant2	Low	5755	5780~5650	-44.35	≤-27	PASS
11N40SI SO	Ant2	High	5795	5850~5855	-44.54	≤16.03	PASS
11N40SI SO	Ant2	High	5795	5855~5875	-43.25	≤10.34	PASS
11N40SI SO	Ant2	High	5795	5875~5925	-44.9	≤-25.98	PASS
11N40SI SO	Ant2	High	5795	5925~5935	-43.83	≤-27	PASS
11AC20S ISO	Ant2	Low	5745	5720~5725	-40.76	≤15.82	PASS
11AC20S ISO	Ant2	Low	5745	5700~5720	-42.45	≤11.96	PASS
11AC20S ISO	Ant2	Low	5745	5650~5700	-45.09	≤-26.96	PASS
11AC20S ISO	Ant2	Low	5745	5760~5650	-43.96	≤-27	PASS
11AC20S ISO	Ant2	High	5825	5850~5855	-43.15	≤15.73	PASS
11AC20S ISO	Ant2	High	5825	5855~5875	-43.27	≤10.29	PASS
11AC20S ISO	Ant2	High	5825	5875~5925	-45.02	≤-26.91	PASS
11AC20S ISO	Ant2	High	5825	5925~5935	-43.39	≤-27	PASS
11AC40S ISO	Ant2	Low	5755	5720~5725	-33.36	≤16.04	PASS
11AC40S	Ant2	Low	5755	5700~5720	-34.08	≤15.58	PASS



ISO							
11AC40S ISO	Ant2	Low	5755	5650~5700	-45.19	≤ -26.80	PASS
11AC40S ISO	Ant2	Low	5755	5780~5650	-44.52	≤ -27	PASS
11AC40S ISO	Ant2	High	5795	5850~5855	-41.43	≤ 17.16	PASS
11AC40S ISO	Ant2	High	5795	5855~5875	-43.31	≤ 11.08	PASS
11AC40S ISO	Ant2	High	5795	5875~5925	-44.97	≤ -26.83	PASS
11AC40S ISO	Ant2	High	5795	5925~5935	-43.82	≤ -27	PASS
11AC80S ISO	Ant2	Low	5775	5720~5725	-35.24	≤ 16.00	PASS
11AC80S ISO	Ant2	Low	5775	5700~5720	-34.91	≤ 10.61	PASS
11AC80S ISO	Ant2	Low	5775	5650~5700	-43.75	≤ -26.11	PASS
11AC80S ISO	Ant2	Low	5775	5800~5650	-44.46	≤ -27	PASS
11AC80S ISO	Ant2	High	5775	5850~5855	-41.47	≤ 16.68	PASS
11AC80S ISO	Ant2	High	5775	5855~5875	-39.47	≤ 11.17	PASS
11AC80S ISO	Ant2	High	5775	5875~5925	-45.26	≤ -26.87	PASS
11AC80S ISO	Ant2	High	5775	5925~5935	-44.78	≤ -27	PASS



Test Graphs B1/2/3

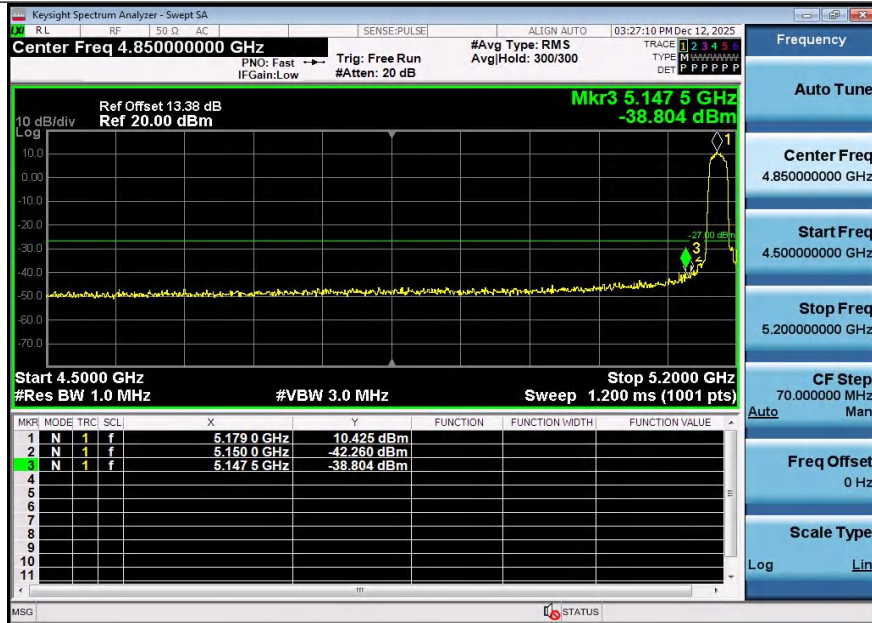




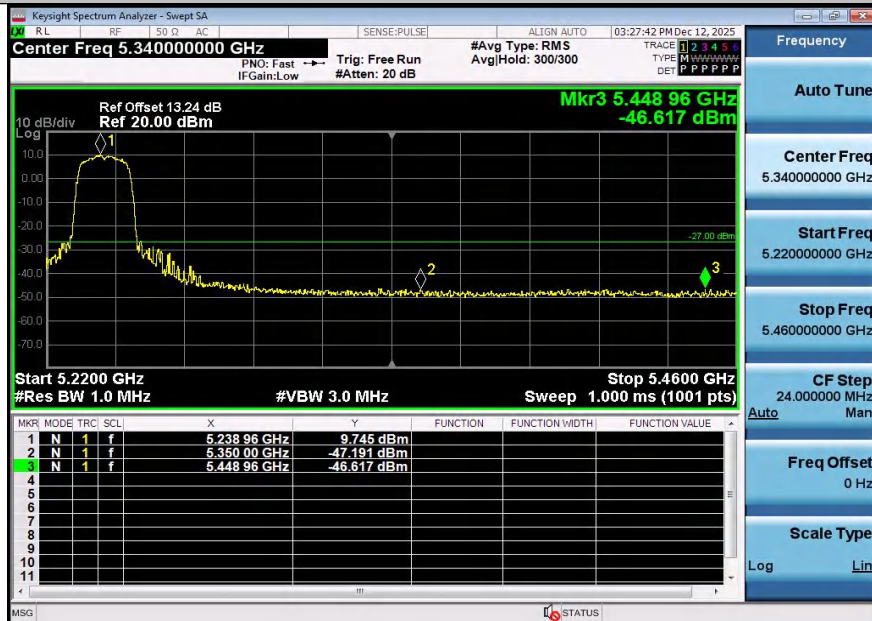
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11N20SISO-Ant2-5180-PASS



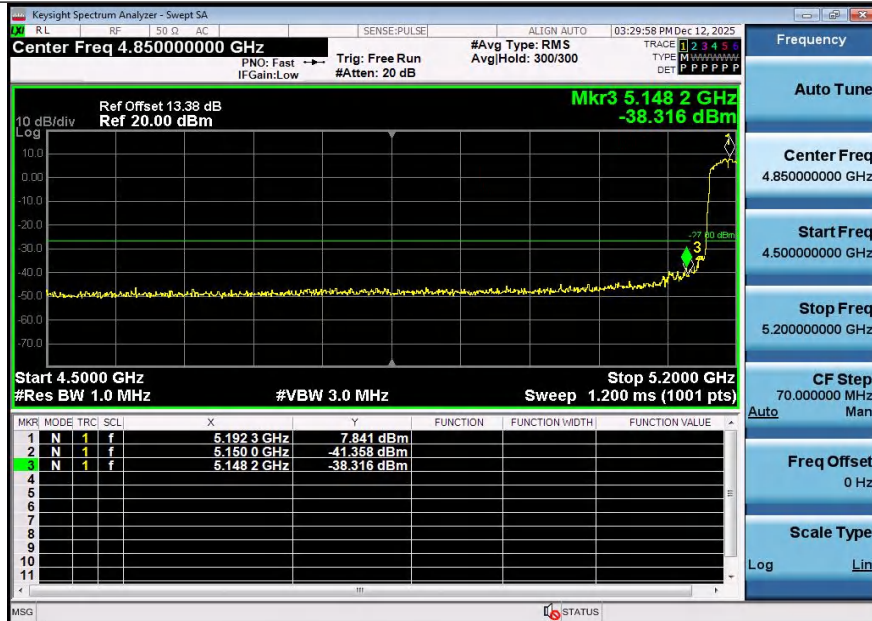
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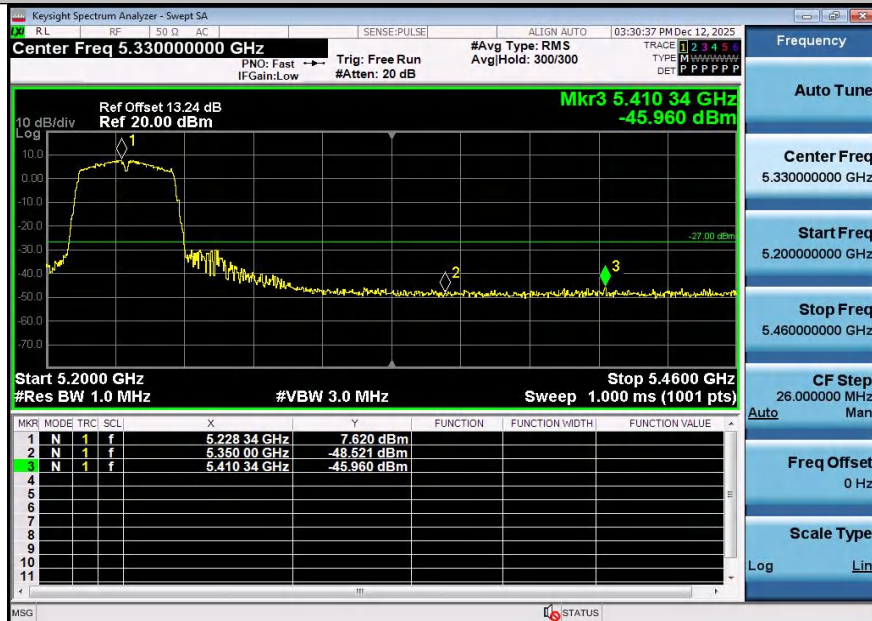
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FCC ID:2BUDX-QD-E811301

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11N40SISO-Ant2-5190-PASS



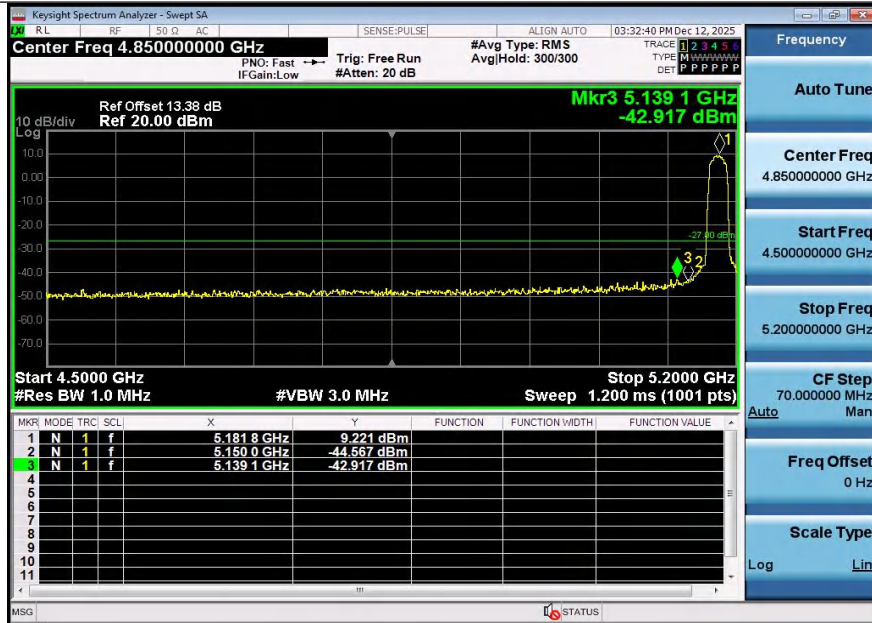
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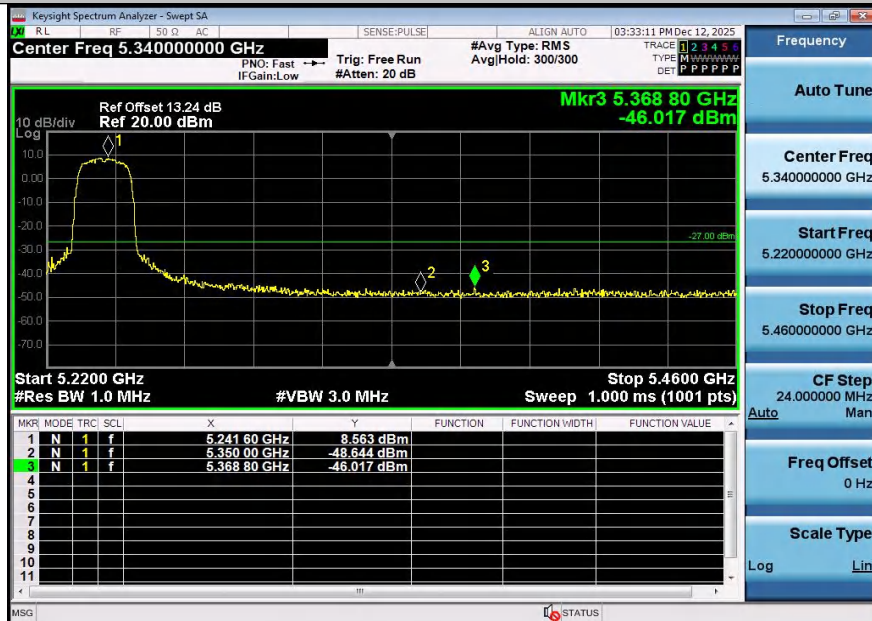
Shenzhen GUOREN Certification Technology Service Co., Ltd.
101#, Building K & Building T, The Second Industrial Zone, Jiazitang
Community, Fenghuang Street, Guangming District, Shenzhen, China

FCC ID:2BUDX-QD-E811301

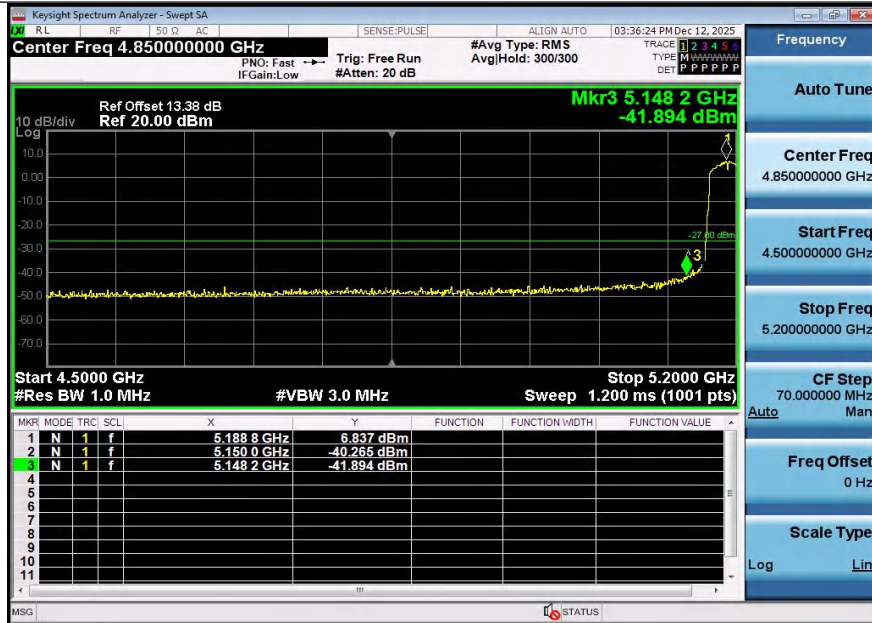
GRCTR251102040-04-Module 2-date



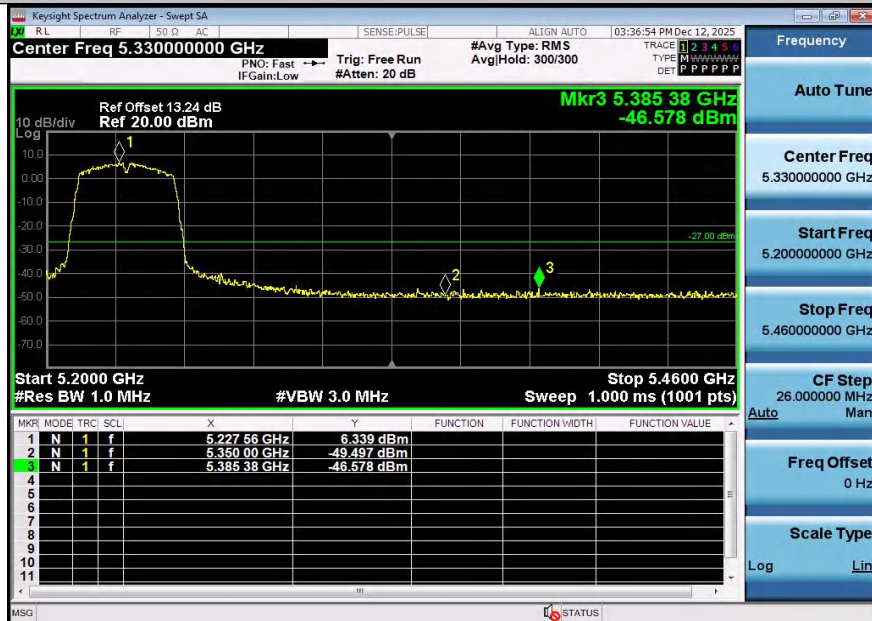
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11AC20SISO-Ant2-5240-PASS



11AC40SISO-Ant2-5190-PASS



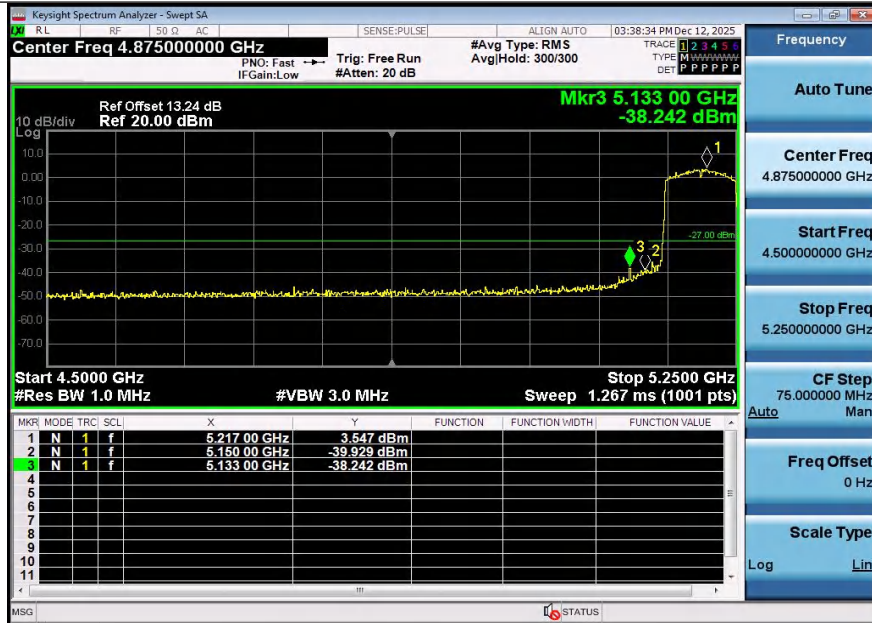
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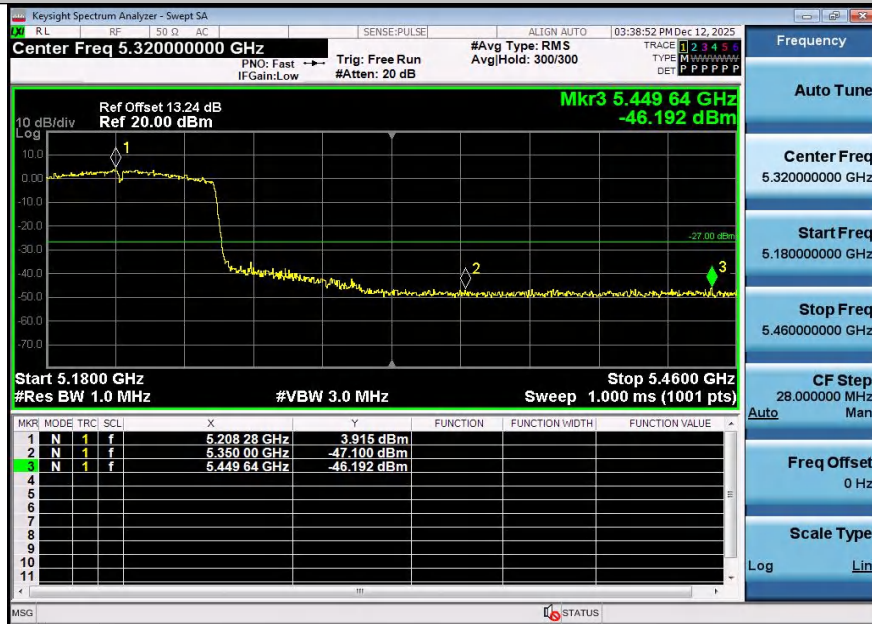
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FCC ID:2BUDX-QD-E811301

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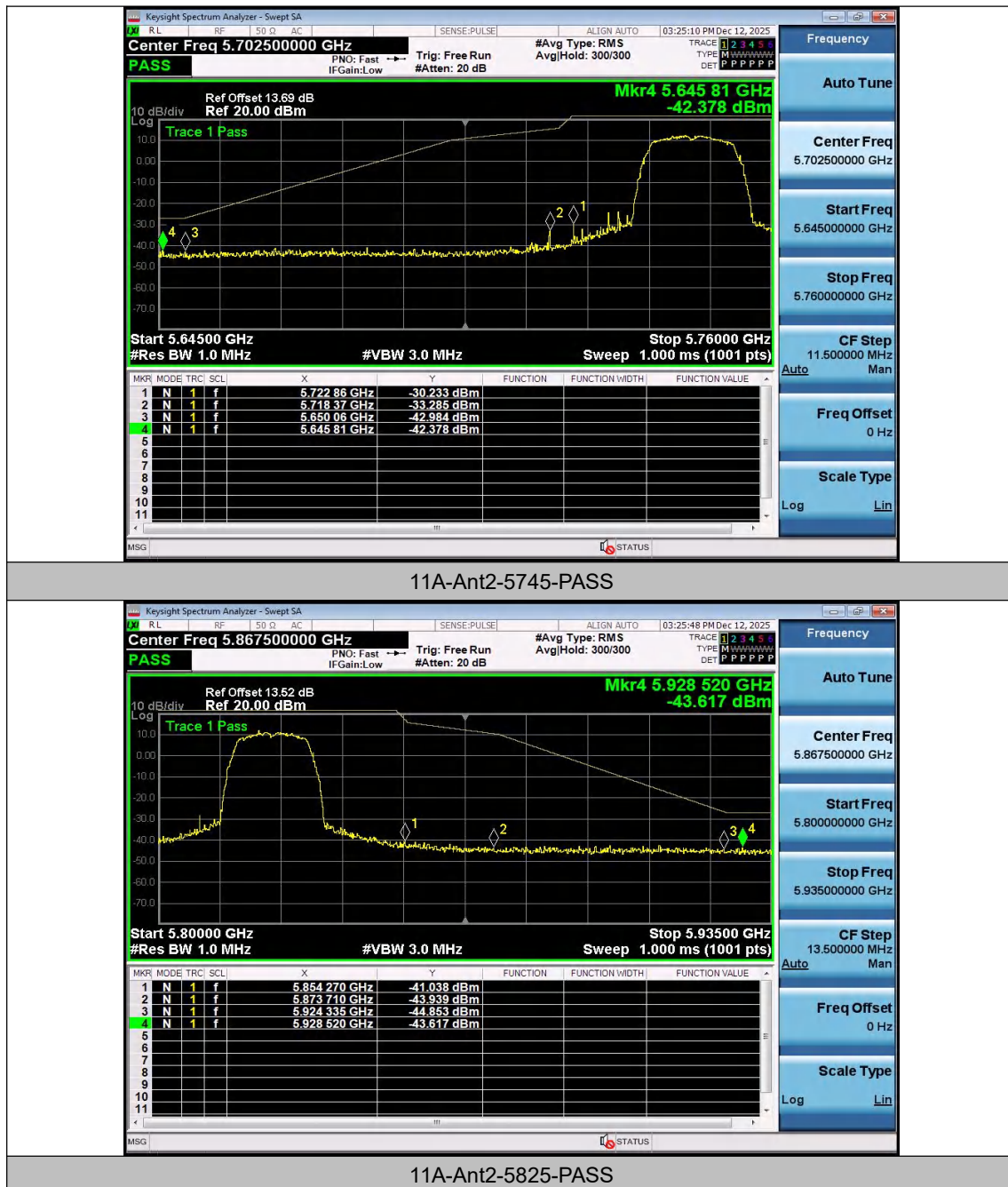
11AC80SISO-Ant2-5210-PASS



11AC80SISO-Ant2-5210-PASS



Test Graphs B4





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11N20SISO-Ant2-5745-PASS



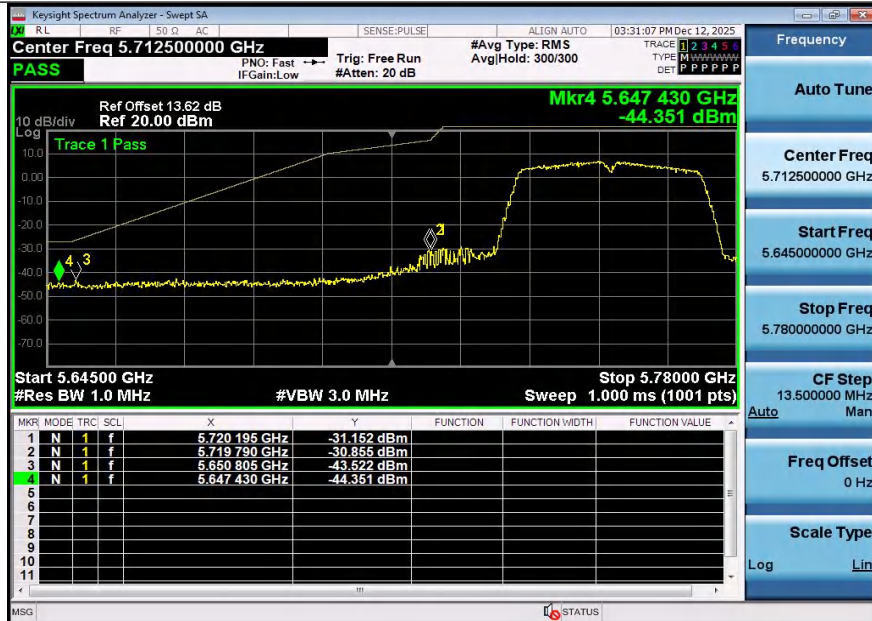
11N20SISO-Ant2-5825-PASS



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11N40SISO-Ant2-5755-PASS



11N40SISO-Ant2-5795-PASS



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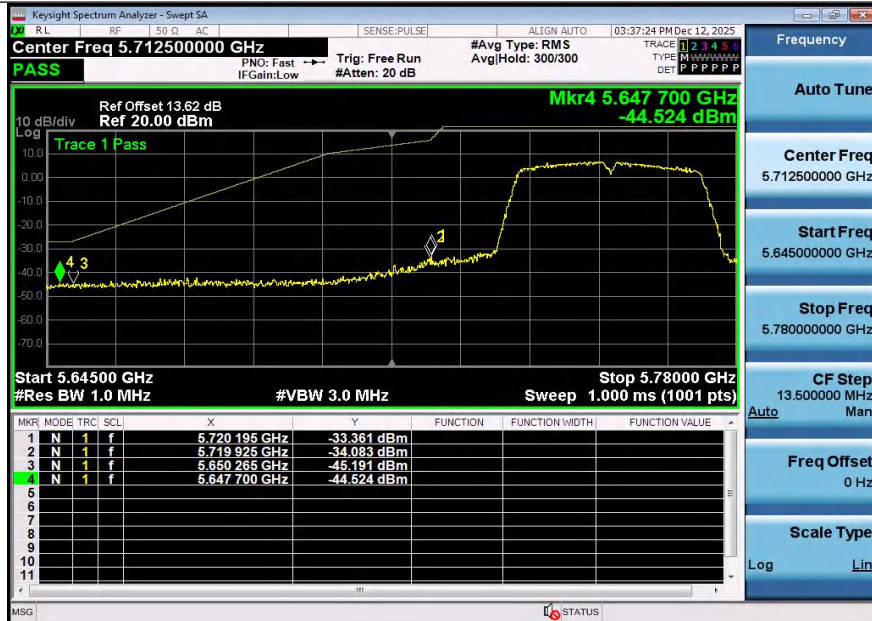
GRCTR251102040-04-Module 2-date



11AC20SISO-Ant2-5745-PASS



11AC20SISO-Ant2-5825-PASS



11AC40SISO-Ant2-5755-PASS



11AC40SISO-Ant2-5795-PASS



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11AC80SISO-Ant2-5775-PASS



11AC80SISO-Ant2-5775-PASS



Appendix F: Frequency Stability

Test Result

Ant 1

Reference Frequency: 802.11ac channel=36 frequency=5180MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
120	-30	129.828	0.02506	Within the band of operation	Pass
	-20	128.116	0.02473		
	-10	114.887	0.02218		
	0	131.444	0.02538		
	10	162.638	0.03140		
	20	151.605	0.02927		
	30	172.187	0.03324		
	40	147.746	0.02852		
	50	142.250	0.02746		
132	20	130.370	0.02517	Within the band of operation	Pass
108	20	154.898	0.02990		

Reference Frequency: 802.11ac channel=149 frequency=5745MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
120	-30	178.036	0.03099	Within the band of operation	Pass
	-20	170.312	0.02965		
	-10	124.632	0.02169		
	0	158.212	0.02754		
	10	122.614	0.02134		
	20	157.553	0.02742		
	30	127.754	0.02224		
	40	143.971	0.02506		
	50	145.078	0.02525		
132	20	122.468	0.02132	Within the band of operation	Pass
108	20	140.876	0.02452		



Ant 2

Reference Frequency: 802.11ac channel=36 frequency=5180MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
120	-30	158.977	0.03069	Within the band of operation	Pass
	-20	169.554	0.03273		
	-10	139.463	0.02692		
	0	153.128	0.02956		
	10	140.304	0.02709		
	20	167.195	0.03228		
	30	138.711	0.02678		
	40	166.562	0.03215		
	50	170.069	0.03283		
132	20	147.713	0.02852	Within the band of operation	Pass
108	20	156.224	0.03016		

Reference Frequency: 802.11ac channel=149 frequency=5745MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
120	-30	125.910	0.02192	Within the band of operation	Pass
	-20	158.774	0.02764		
	-10	129.057	0.02246		
	0	128.233	0.02232		
	10	177.240	0.03085		
	20	147.736	0.02572		
	30	155.799	0.02712		
	40	164.053	0.02856		
	50	167.709	0.02919		
132	20	116.412	0.02026	Within the band of operation	Pass
108	20	123.726	0.02154		