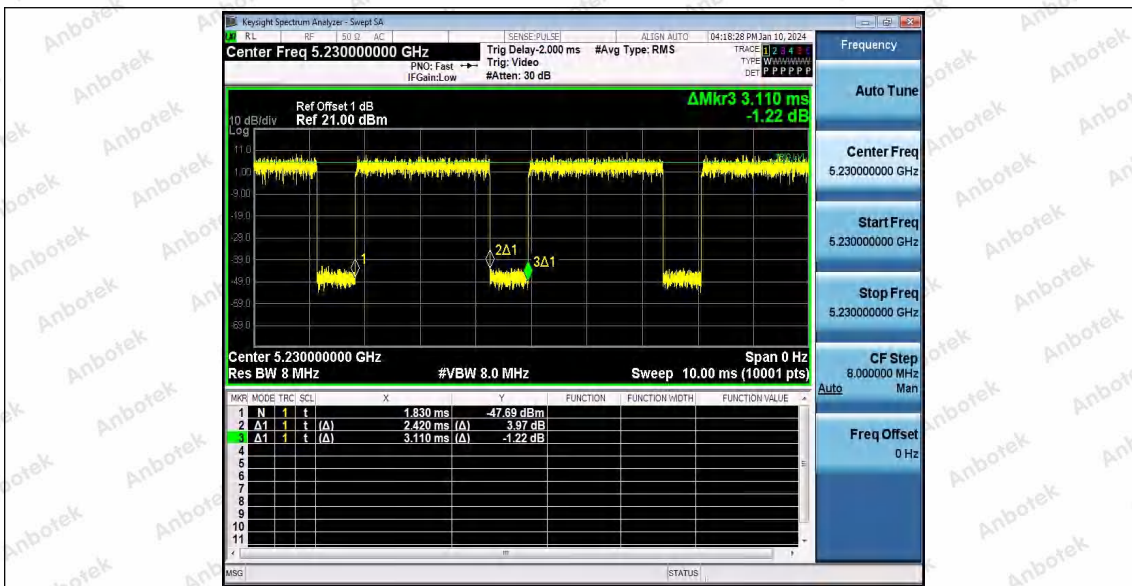
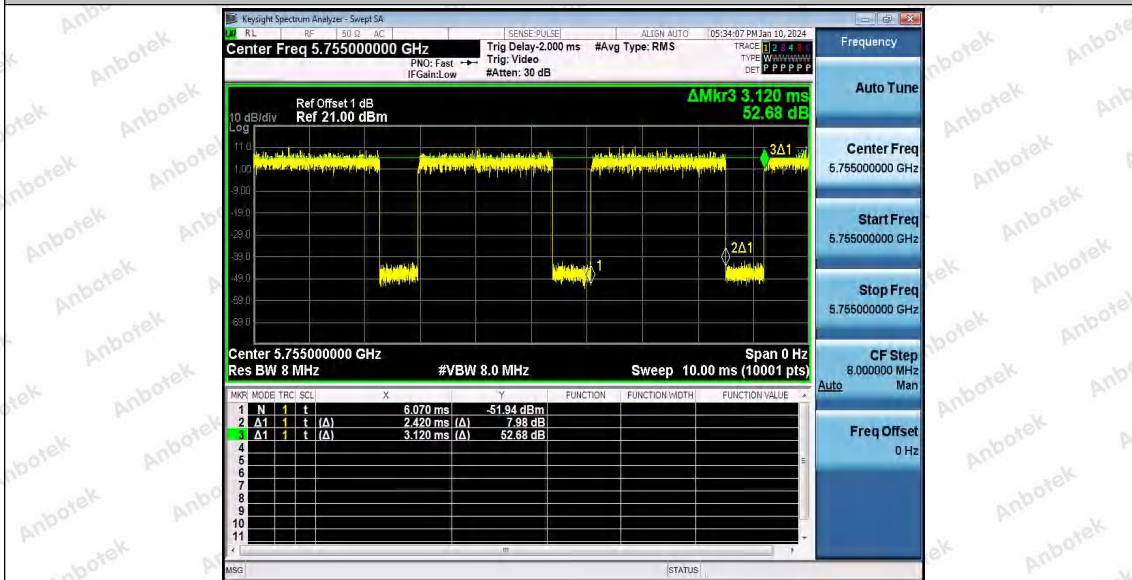
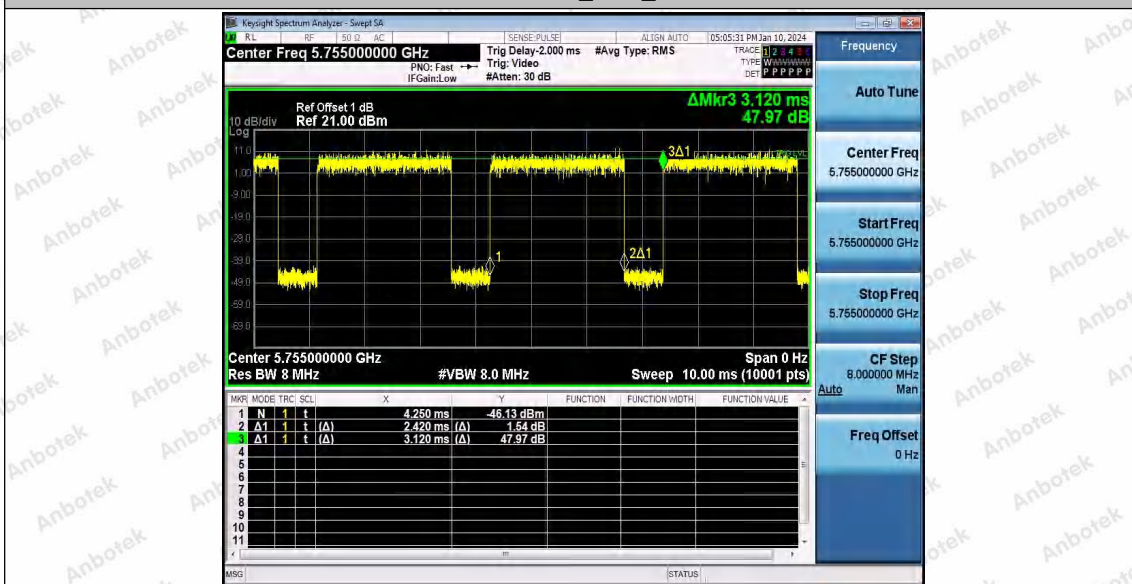




11AC40SISO_Ant1_5755



11AC40SISO_Ant2_5755



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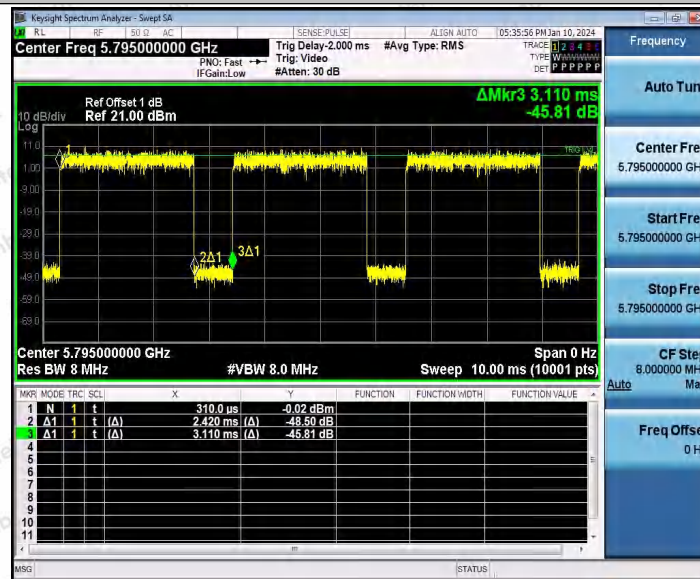
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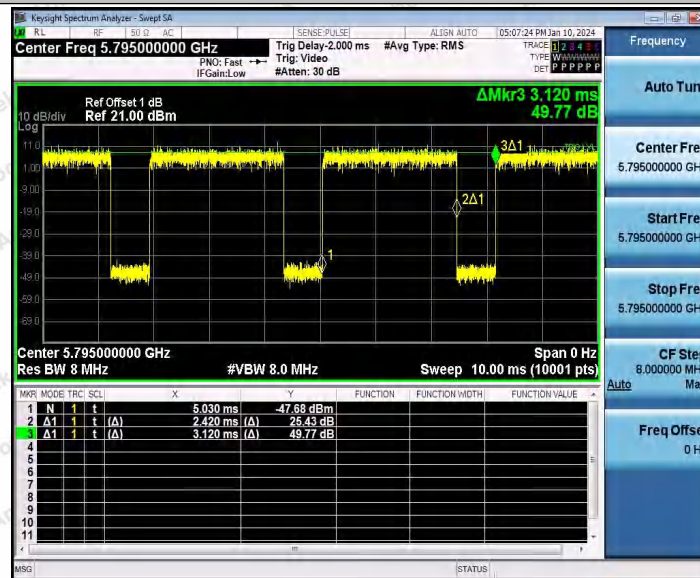
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11AC40SISO_Ant1_5795



11AC40SISO_Ant2_5795



11AC80SISO_Ant1_5210

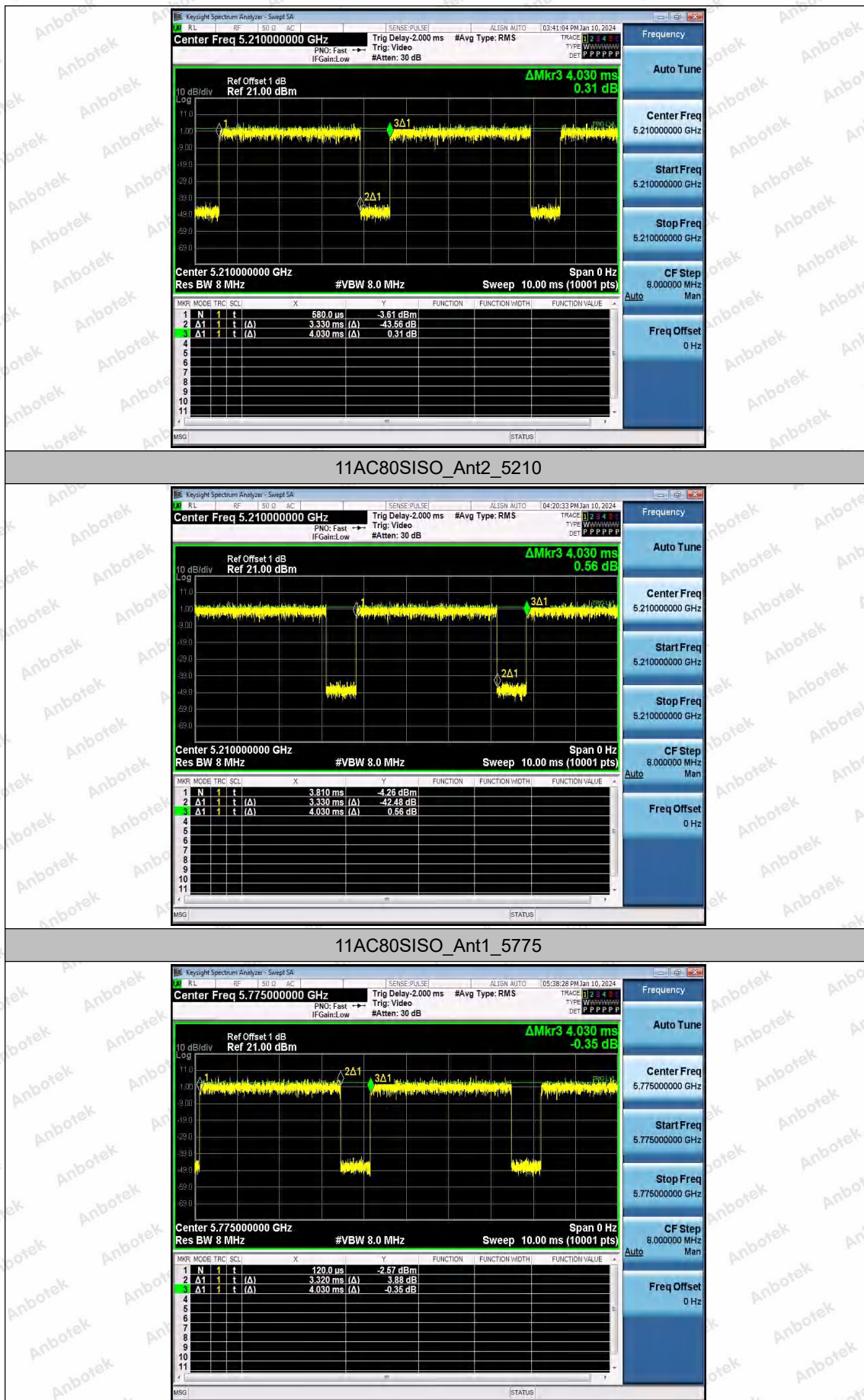
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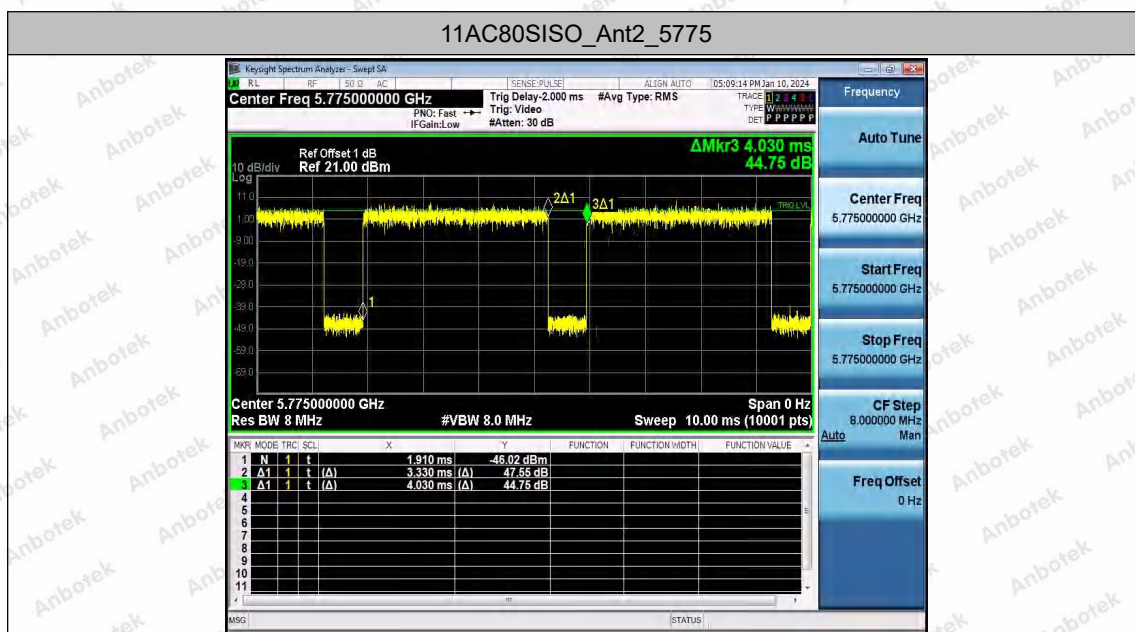
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Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]
11A	Ant1	5180	---	12.23	96.21	0.17	12.40	≤30.00
	Ant2	5180	---	11.73	96.21	0.17	11.90	≤30.00
	Ant1	5200	---	12.31	96.21	0.17	12.48	≤30.00
	Ant2	5200	---	11.65	96.21	0.17	11.82	≤30.00
	Ant1	5240	---	12.14	95.73	0.19	12.33	≤30.00
	Ant2	5240	---	11.31	96.21	0.17	11.48	≤30.00
	Ant1	5745	---	12.56	96.21	0.17	12.73	≤30.00
	Ant2	5745	---	13.51	96.21	0.17	13.68	≤30.00
	Ant1	5785	---	12.56	96.21	0.17	12.73	≤30.00
	Ant2	5785	---	13.83	96.19	0.17	14.00	≤30.00
	Ant1	5825	---	12.80	96.21	0.17	12.97	≤30.00
	Ant2	5825	---	13.99	76.23	1.18	15.17	≤30.00
11N20SIS O	Ant1	5180	---	12.19	98.22	0.08	12.27	≤30.00
	Ant2	5180	---	11.71	88.59	0.53	12.24	≤30.00
	Ant1	5200	---	12.24	88.41	0.53	12.77	≤30.00
	Ant2	5200	---	11.65	98.22	0.08	11.73	≤30.00
	Ant1	5240	---	12.05	88.43	0.53	12.58	≤30.00
	Ant2	5240	---	11.17	88.43	0.53	11.70	≤30.00
	Ant1	5745	---	12.40	88.43	0.53	12.93	≤30.00
	Ant2	5745	---	13.56	98.02	0.09	13.65	≤30.00
	Ant1	5785	---	12.46	98.22	0.08	12.54	≤30.00
	Ant2	5785	---	13.84	98.22	0.08	13.92	≤30.00
	Ant1	5825	---	12.76	98.22	0.08	12.84	≤30.00
	Ant2	5825	---	14.04	98.22	0.08	14.12	≤30.00
11N40SIS O	Ant1	5190	---	11.68	78.76	1.04	12.72	≤30.00
	Ant2	5190	---	11.05	78.76	1.04	12.09	≤30.00
	Ant1	5230	---	11.44	96.02	0.18	11.62	≤30.00
	Ant2	5230	---	10.63	96.02	0.18	10.81	≤30.00
	Ant1	5755	---	11.97	78.76	1.04	13.01	≤30.00
	Ant2	5755	---	13.18	79.02	1.02	14.20	≤30.00
	Ant1	5795	---	12.03	78.76	1.04	13.07	≤30.00
	Ant2	5795	---	13.36	96.40	0.16	13.52	≤30.00
11AC20SI SO	Ant1	5180	---	12.01	87.81	0.56	12.57	≤30.00
	Ant2	5180	---	11.59	87.81	0.56	12.15	≤30.00
	Ant1	5200	---	12.14	87.65	0.57	12.71	≤30.00
	Ant2	5200	---	11.48	87.81	0.56	12.04	≤30.00

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	Ant1	5240	---	11.98	87.65	0.57	12.55	≤30.00
	Ant2	5240	---	11.19	87.81	0.56	11.75	≤30.00
	Ant1	5745	---	12.26	87.81	0.56	12.82	≤30.00
	Ant2	5745	---	13.42	87.81	0.56	13.98	≤30.00
	Ant1	5785	---	12.38	87.65	0.57	12.95	≤30.00
	Ant2	5785	---	13.73	87.83	0.56	14.29	≤30.00
	Ant1	5825	---	12.59	87.81	0.56	13.15	≤30.00
	Ant2	5825	---	13.79	87.65	0.57	14.36	≤30.00
11AC40SI SO	Ant1	5190	---	11.49	77.49	1.11	12.60	≤30.00
	Ant2	5190	---	10.88	77.49	1.11	11.99	≤30.00
	Ant1	5230	---	11.32	77.49	1.11	12.43	≤30.00
	Ant2	5230	---	10.63	77.81	1.09	11.72	≤30.00
	Ant1	5755	---	11.83	77.56	1.10	12.93	≤30.00
	Ant2	5755	---	13.03	77.56	1.10	14.13	≤30.00
	Ant1	5795	---	11.98	77.81	1.09	13.07	≤30.00
	Ant2	5795	---	13.22	77.56	1.10	14.32	≤30.00
11AC80SI SO	Ant1	5210	---	11.20	82.63	0.83	12.03	≤30.00
	Ant2	5210	---	10.68	82.63	0.83	11.51	≤30.00
	Ant1	5775	---	11.80	82.38	0.84	12.64	≤30.00
	Ant2	5775	---	13.10	82.63	0.83	13.93	≤30.00

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.

MIMO:

Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Total [dBm]	Limit [dBm]	Verdict
11N20MIMO	Ant1	5180	12.27	15.27	≤26.99	PASS
	Ant2	5180	12.24			
	Ant1	5200	12.77	15.29	≤26.99	PASS
	Ant2	5200	11.73			
	Ant1	5240	12.58	15.17	≤26.99	PASS
	Ant2	5240	11.70			
	Ant1	5745	12.93	16.32	≤26.99	PASS
	Ant2	5745	13.65			
	Ant1	5785	12.54	16.29	≤26.99	PASS
	Ant2	5785	13.92			
	Ant1	5825	12.84	16.54	≤26.99	PASS
	Ant2	5825	14.12			
11N40MIMO	Ant1	5190	12.72	15.43	≤26.99	PASS
	Ant2	5190	12.09			
	Ant1	5230	11.62	14.24	≤26.99	PASS
	Ant2	5230	10.81			
	Ant1	5755	13.01	16.66	≤26.99	PASS

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	Ant2	5755	14.20	16.31	≤ 26.99	PASS
	Ant1	5795	13.07			
	Ant2	5795	13.52			
11AC20MIMO	Ant1	5180	12.57	15.38	≤ 26.99	PASS
	Ant2	5180	12.15			
	Ant1	5200	12.71	15.40	≤ 26.99	PASS
	Ant2	5200	12.04			
	Ant1	5240	12.55	15.18	≤ 26.99	PASS
	Ant2	5240	11.75			
	Ant1	5745	12.82	16.45	≤ 26.99	PASS
	Ant2	5745	13.98			
	Ant1	5785	12.95	16.68	≤ 26.99	PASS
	Ant2	5785	14.29			
	Ant1	5825	13.15	16.81	≤ 26.99	PASS
	Ant2	5825	14.36			
11AC40MIMO	Ant1	5190	12.60	15.32	≤ 26.99	PASS
	Ant2	5190	11.99			
	Ant1	5230	12.43	15.10	≤ 26.99	PASS
	Ant2	5230	11.72			
	Ant1	5755	12.93	16.58	≤ 26.99	PASS
	Ant2	5755	14.13			
	Ant1	5795	13.07	16.75	≤ 26.99	PASS
	Ant2	5795	14.32			
11AC80MIMO	Ant1	5210	12.03	14.79	≤ 26.99	PASS
	Ant2	5210	11.51			
	Ant1	5775	12.64	16.34	≤ 26.99	PASS
	Ant2	5775	13.93			

Note:

1. Total (dBm) = $10 \times \log(10^{(\text{ANT1 power(dBm)}/10)} + 10^{(\text{ANT2 power(dBm)}/10)})$
2. As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{\text{ANT}}]$ dBi,
so MIMO Limit(dBm) = Limit_{B1/B4} - (Directional gain - 6.00).

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EIRP at any elevation angle above 30 degrees

Test Mode	Antenna Polar[H/V]	Frequency[MHz]	Degrees [deg]	Result [dBm]	EIRP Limit [dBm]
11A	H	5180	45	14.87	≤21.00
	V	5180	45	14.37	≤21.00
	H	5200	45	14.95	≤21.00
	V	5200	45	14.29	≤21.00
	H	5240	45	14.80	≤21.00
	V	5240	45	13.95	≤21.00
	H	5745	45	15.20	≤21.00
	V	5745	45	16.15	≤21.00
	H	5785	45	15.20	≤21.00
	V	5785	45	16.47	≤21.00
	H	5825	45	15.28	≤21.00
	V	5825	45	17.48	≤21.00
11N20SISO	H	5180	45	14.58	≤21.00
	V	5180	45	14.55	≤21.00
	H	5200	45	15.08	≤21.00
	V	5200	45	14.04	≤21.00
	H	5240	45	14.89	≤21.00
	V	5240	45	14.01	≤21.00
	H	5745	45	15.24	≤21.00
	V	5745	45	15.96	≤21.00
	H	5785	45	14.85	≤21.00
	V	5785	45	16.23	≤21.00
	H	5825	45	15.15	≤21.00
	V	5825	45	16.43	≤21.00
11N40SISO	H	5190	45	15.03	≤21.00
	V	5190	45	14.40	≤21.00
	H	5230	45	13.93	≤21.00
	V	5230	45	13.12	≤21.00
	H	5755	45	15.32	≤21.00
	V	5755	45	16.51	≤21.00
	H	5795	45	15.38	≤21.00
	V	5795	45	15.83	≤21.00
11AC20SISO	H	5180	45	14.88	≤21.00
	V	5180	45	14.33	≤21.00
	H	5200	45	14.89	≤21.00
	V	5200	45	14.22	≤21.00
	H	5240	45	14.73	≤21.00
	V	5240	45	13.93	≤21.00
	H	5745	45	15.00	≤21.00

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	V	5745	45	16.16	≤21.00
	H	5785	45	15.13	≤21.00
	V	5785	45	16.47	≤21.00
	H	5825	45	15.33	≤21.00
	V	5825	45	16.54	≤21.00
11AC40SISO	H	5190	45	14.78	≤21.00
	V	5190	45	14.17	≤21.00
	H	5230	45	14.61	≤21.00
	V	5230	45	13.90	≤21.00
	H	5755	45	15.11	≤21.00
	V	5755	45	16.31	≤21.00
	H	5795	45	15.25	≤21.00
	V	5795	45	16.50	≤21.00
11AC80SISO	H	5210	45	14.21	≤21.00
	V	5210	45	13.69	≤21.00
	H	5775	45	14.82	≤21.00
	V	5775	45	16.11	≤21.00

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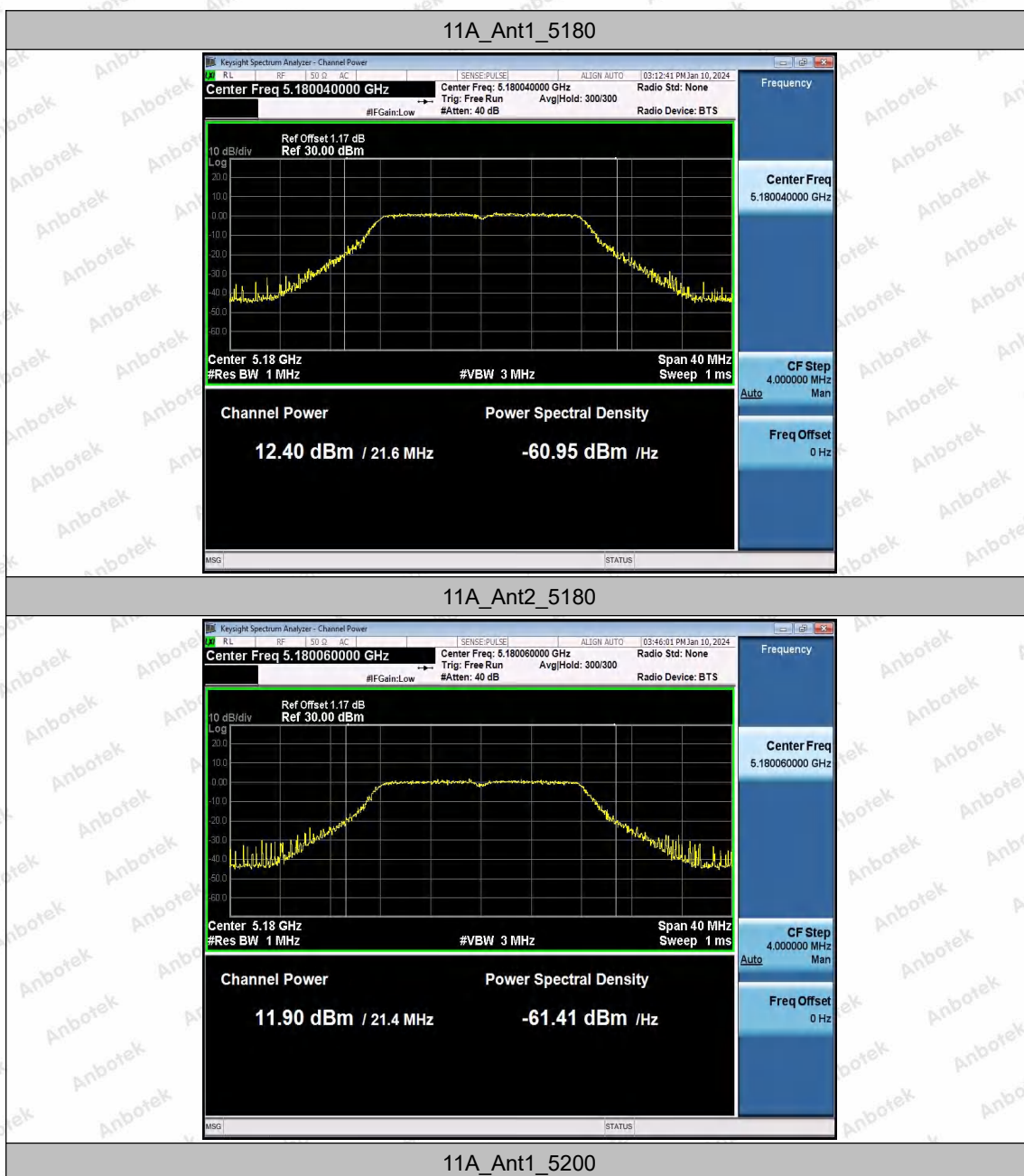
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Test Graphs Channel Power



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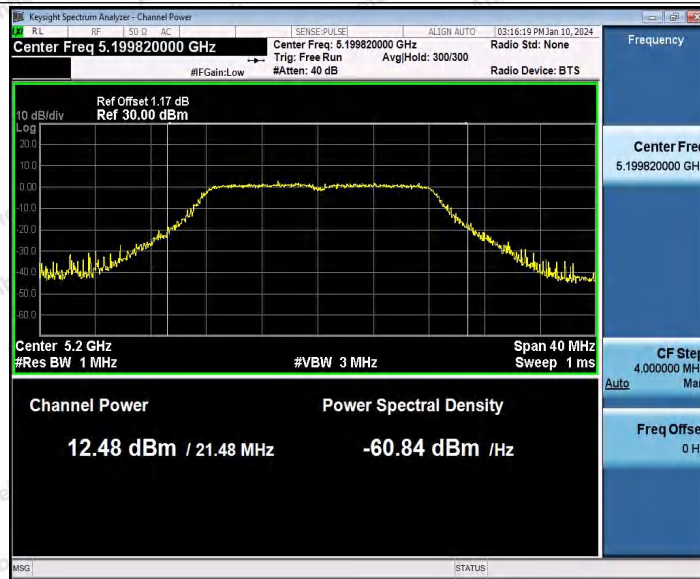


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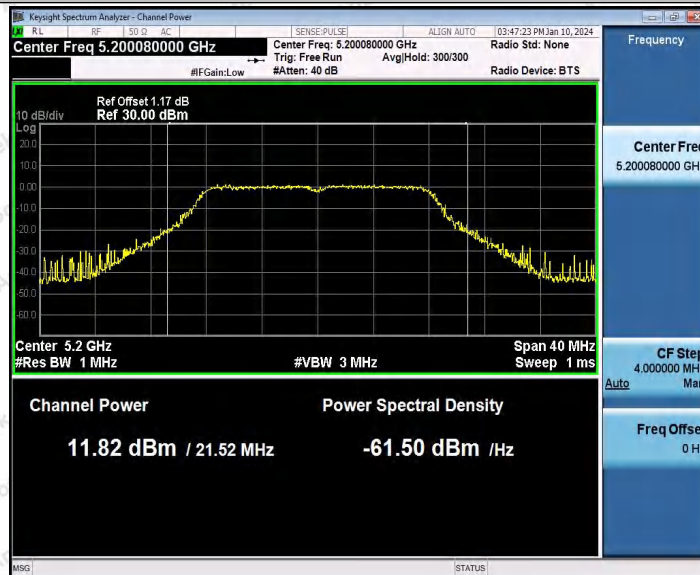
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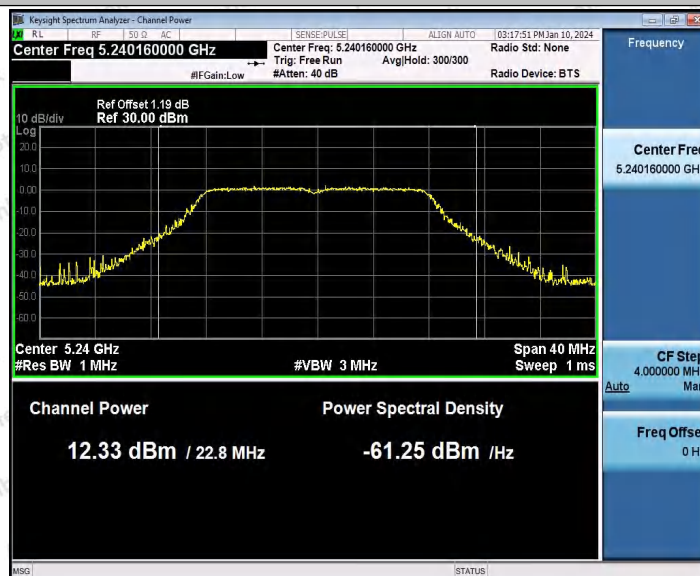




11A_Ant2_5200



11A_Ant1_5240



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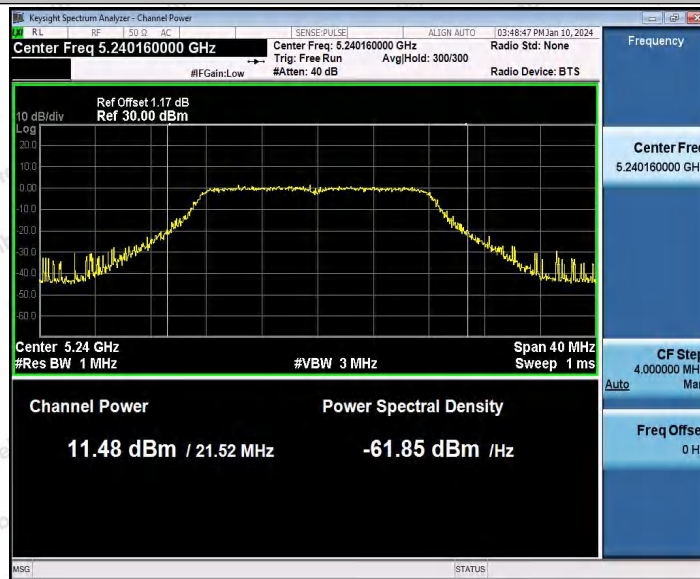
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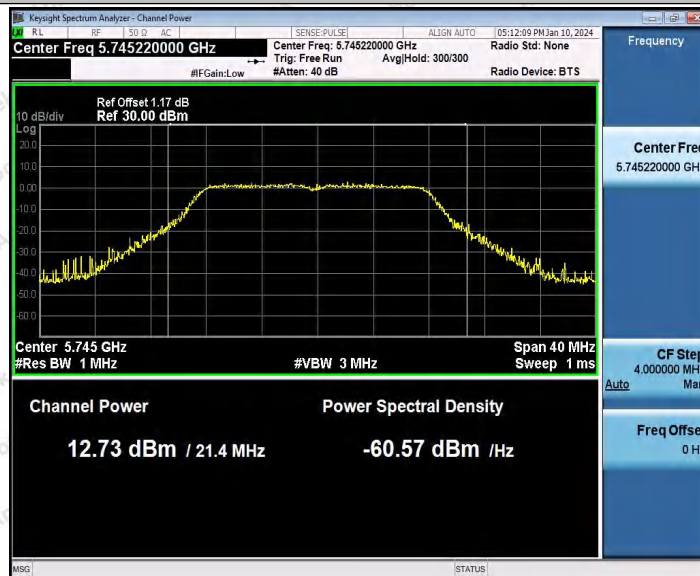
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11A_Ant2_5240



11A_Ant1_5745



11A_Ant2_5745

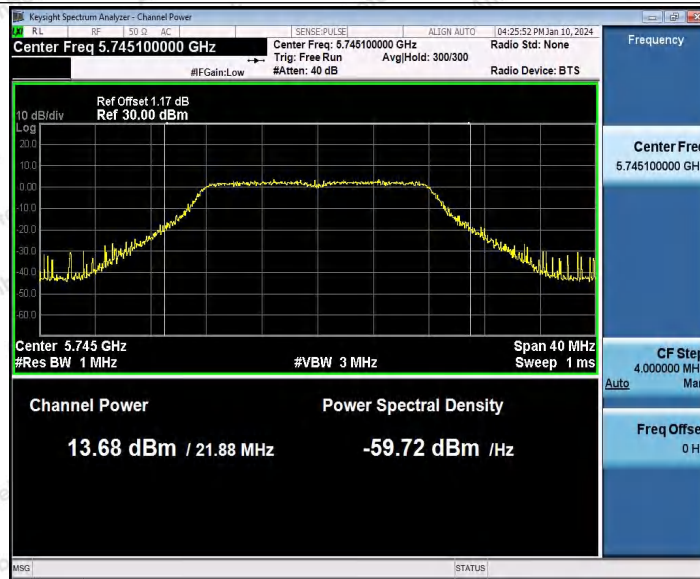
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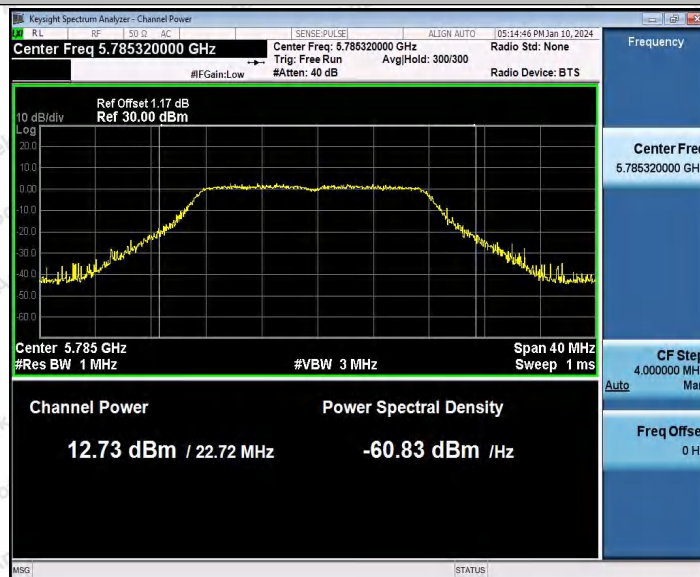


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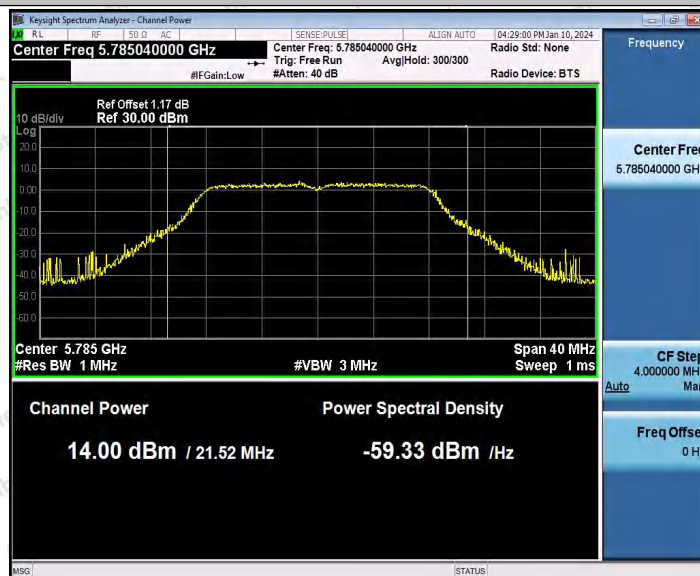




11A_Ant1_5785



11A_Ant2_5785



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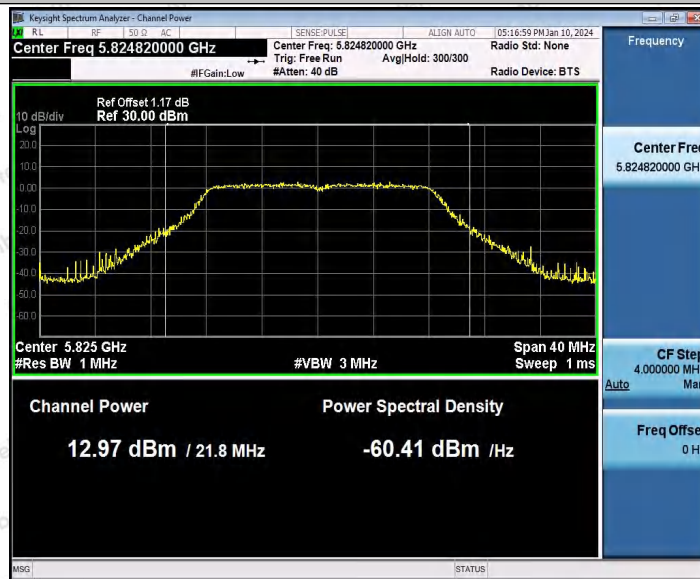
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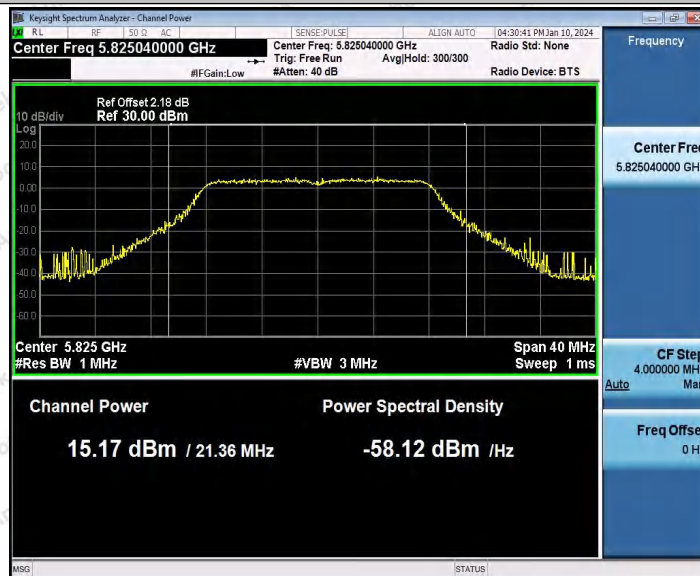
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11A_Ant1_5825



11A_Ant2_5825



11N20SISO_Ant1_5180

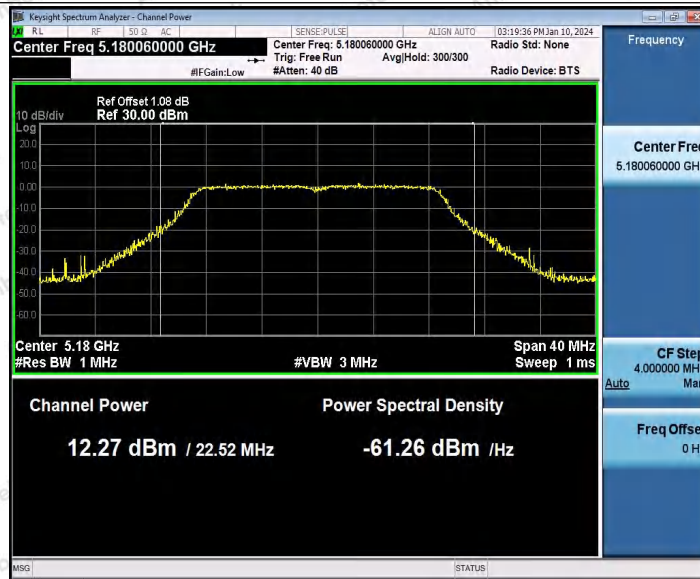
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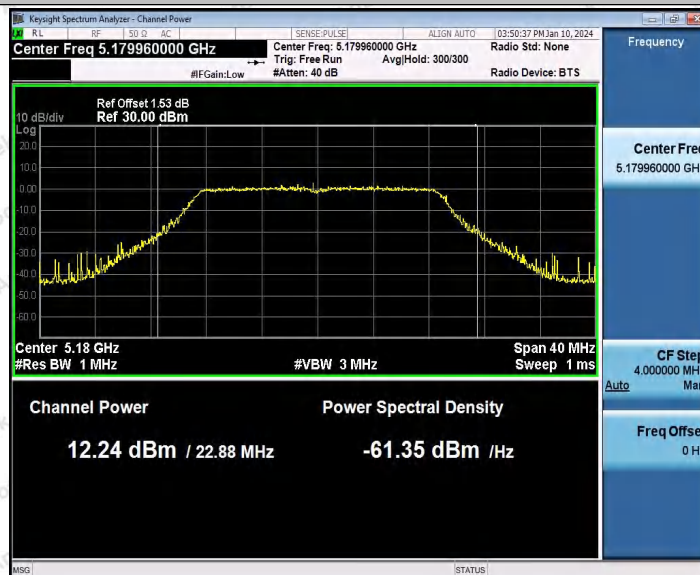


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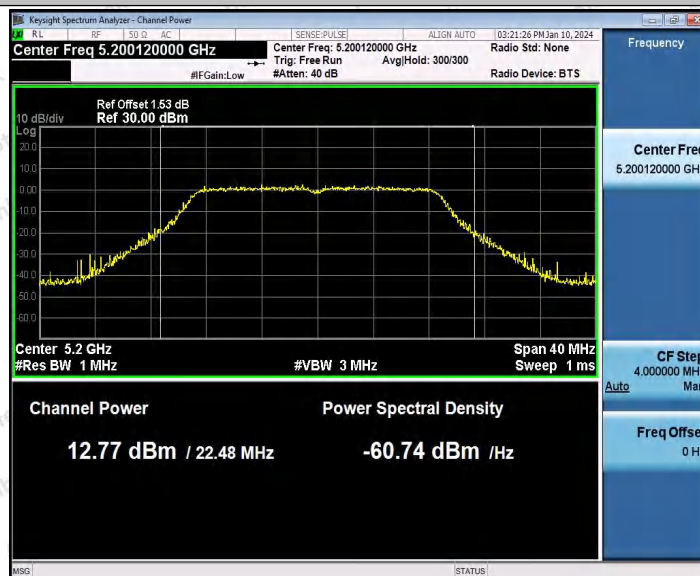




11N20SISO_Ant2_5180



11N20SISO_Ant1_5200



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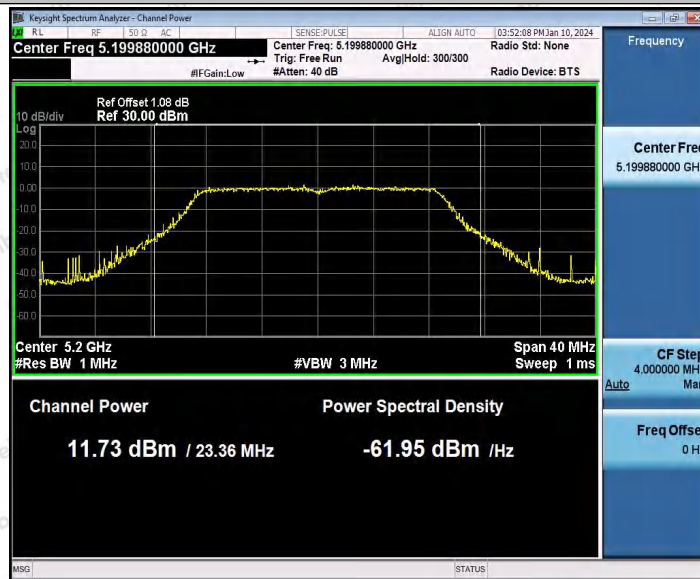
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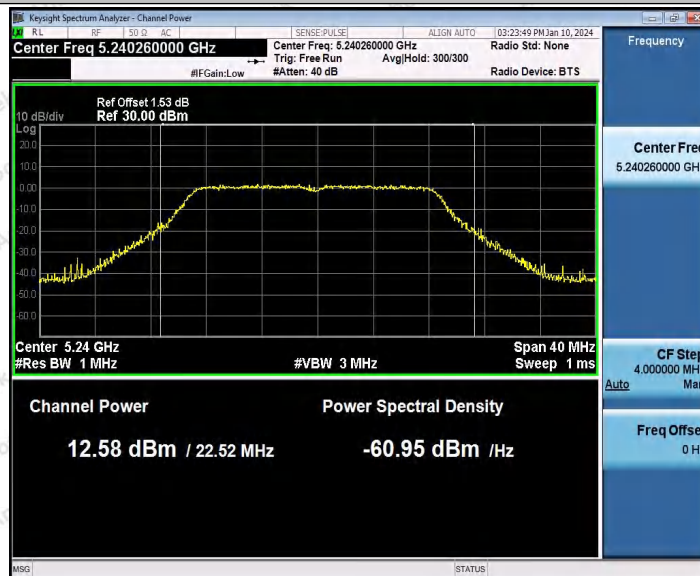
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11N20SISO_Ant2_5200



11N20SISO_Ant1_5240



11N20SISO_Ant2_5240

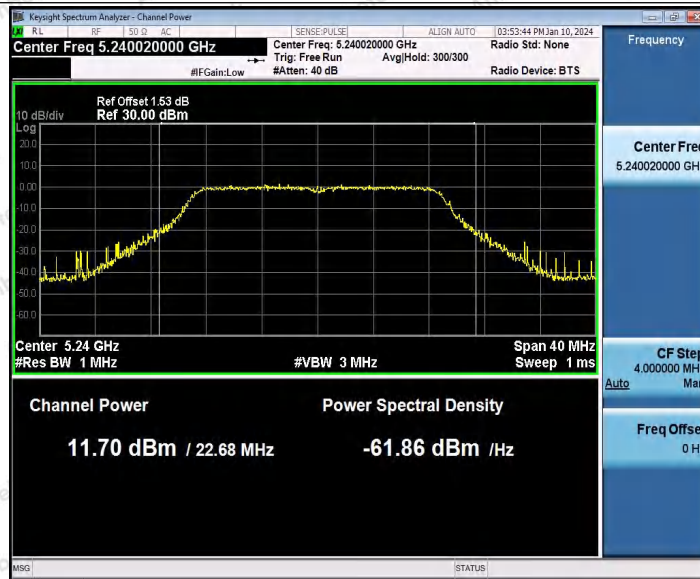
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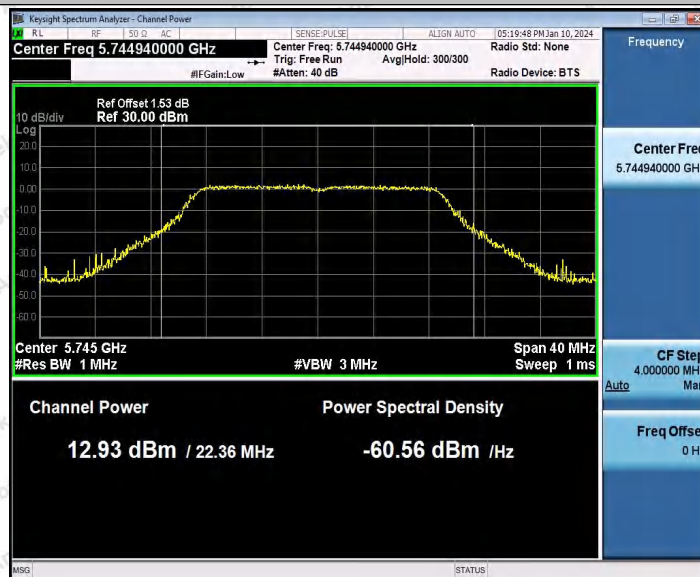


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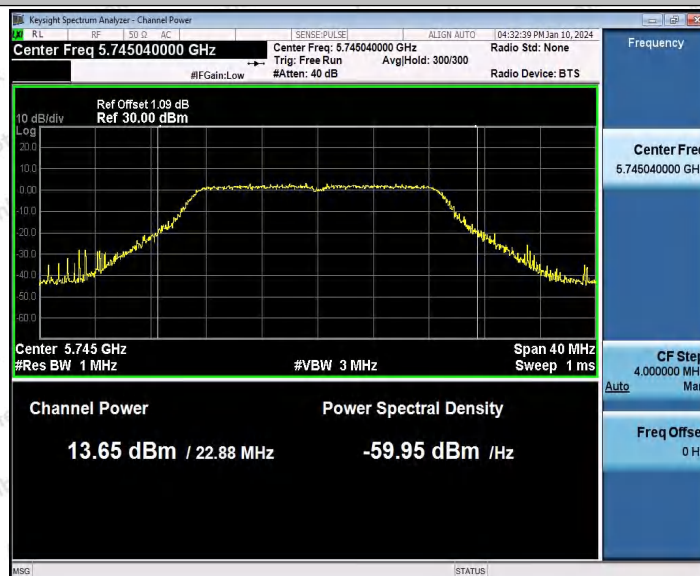




11N20SISO_Ant1_5745



11N20SISO_Ant2_5745



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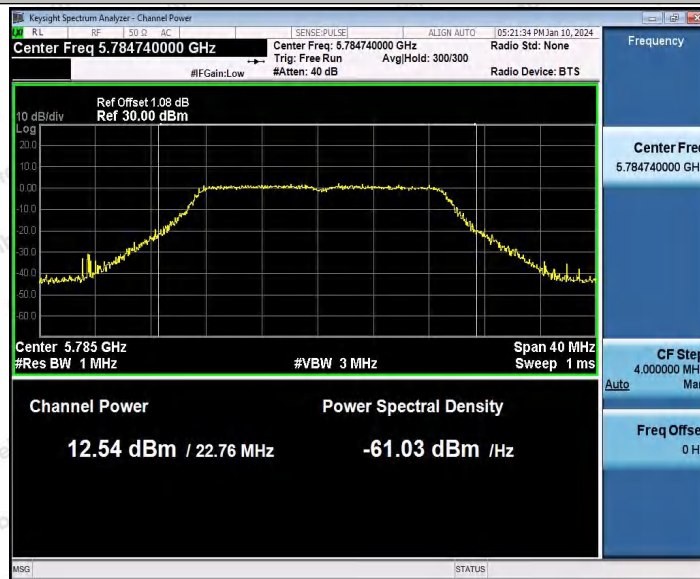
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11N20SISO_Ant1_5785



11N20SISO_Ant2_5785



11N20SISO_Ant1_5825

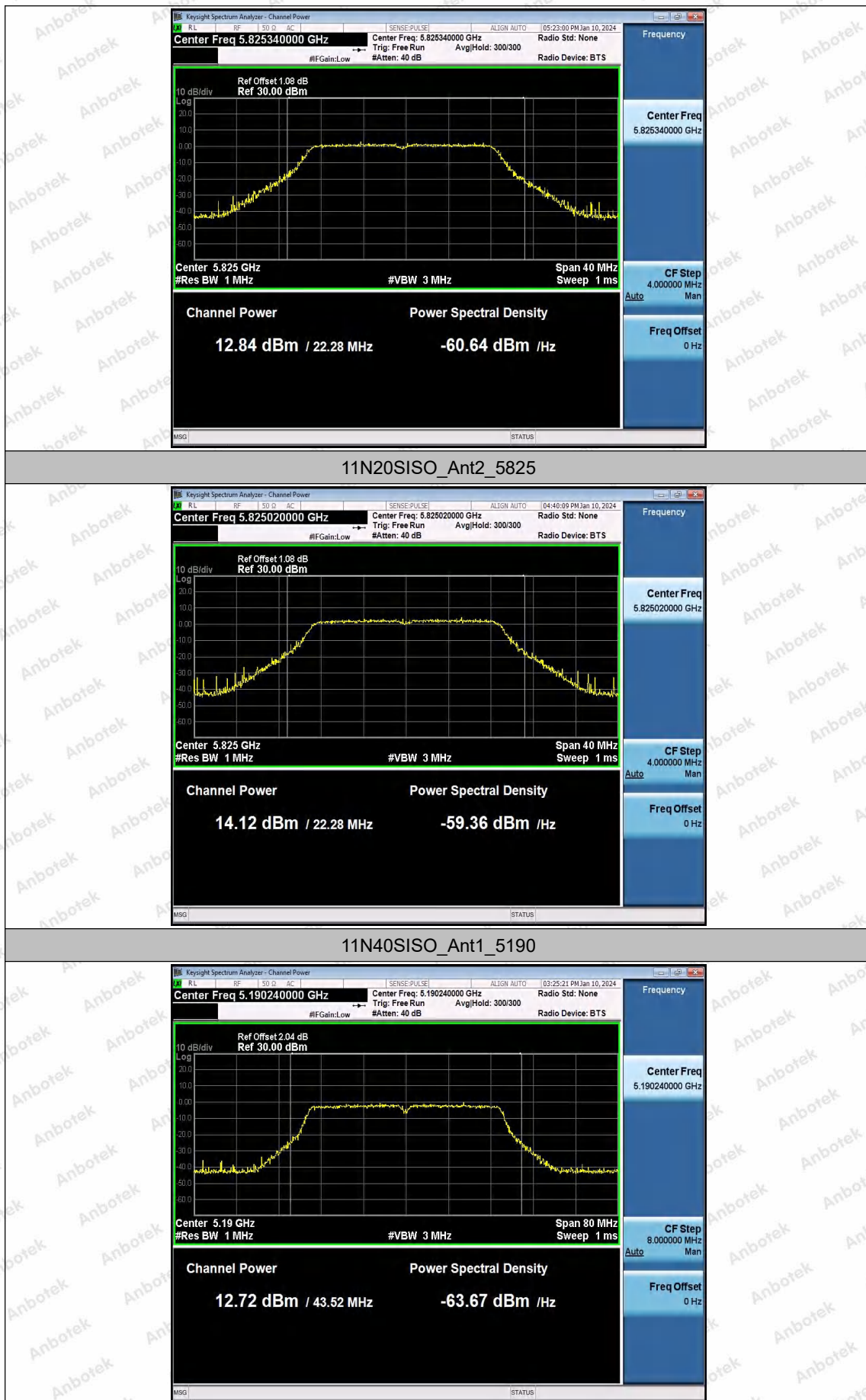
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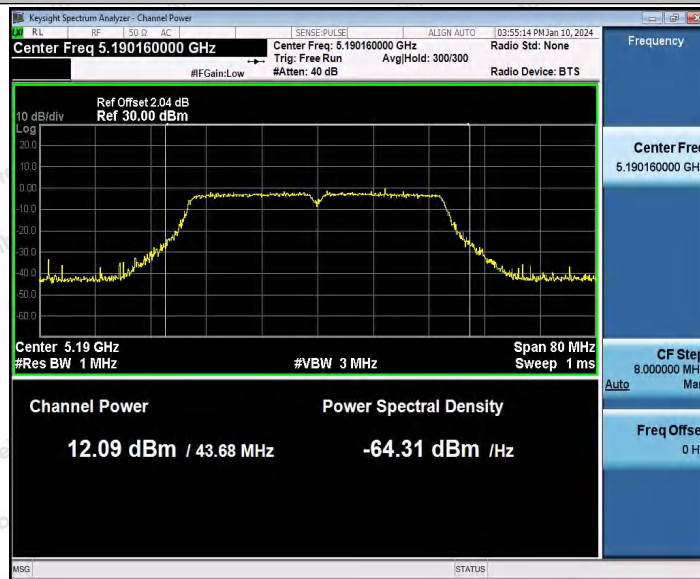
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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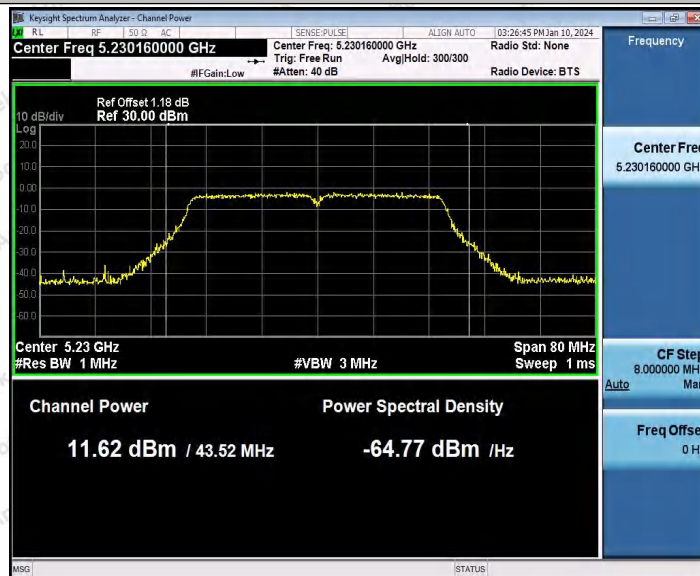
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11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



11N40SISO_Ant2_5230

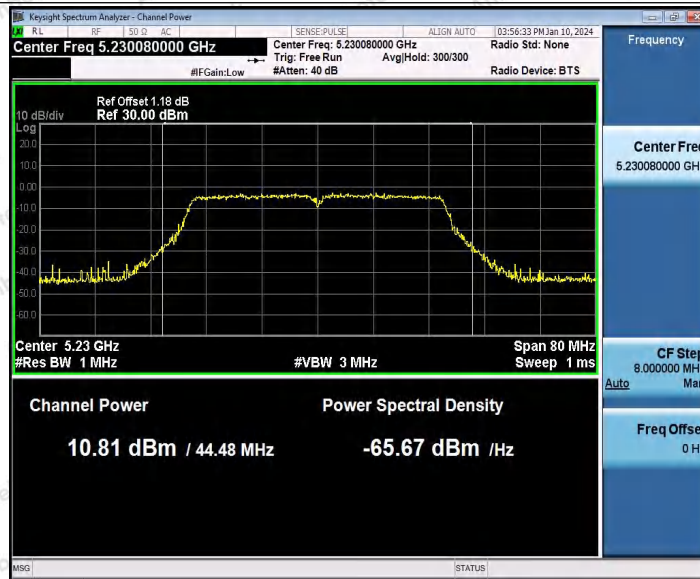
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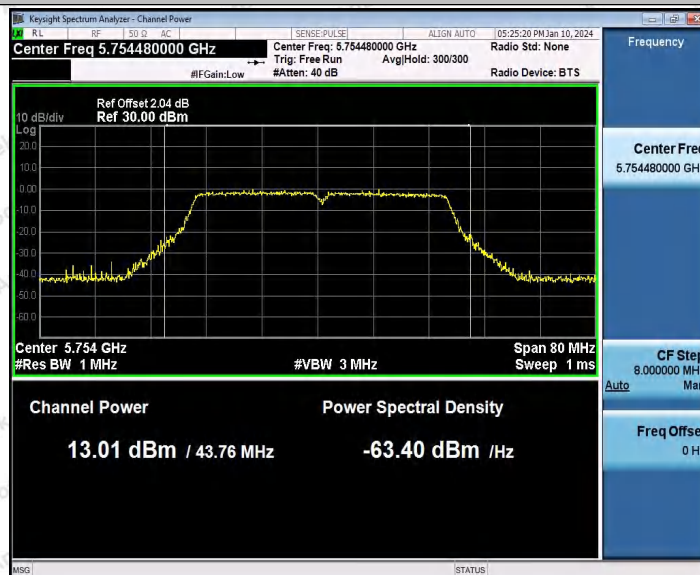


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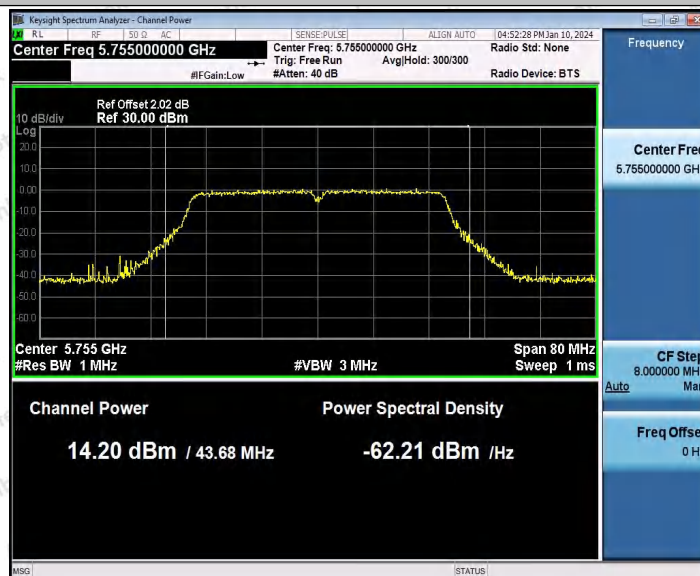




11N40SISO_Ant1_5755



11N40SISO_Ant2_5755



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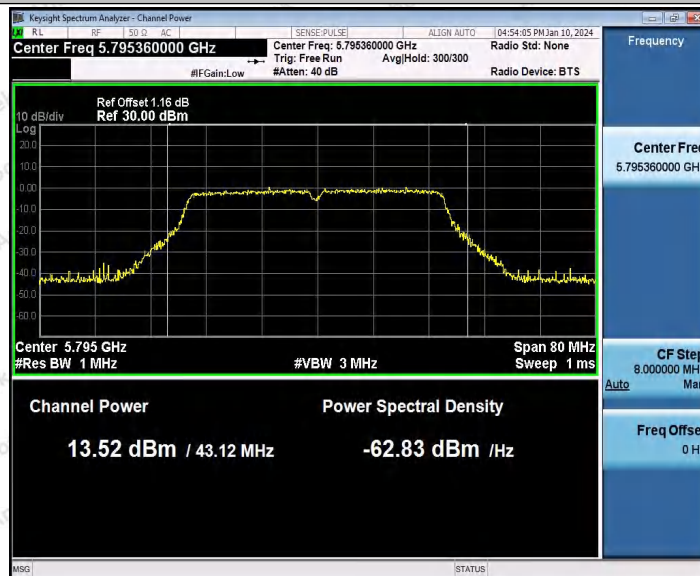
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11N40SISO_Ant1_5795



11N40SISO_Ant2_5795



11AC20SISO_Ant1_5180

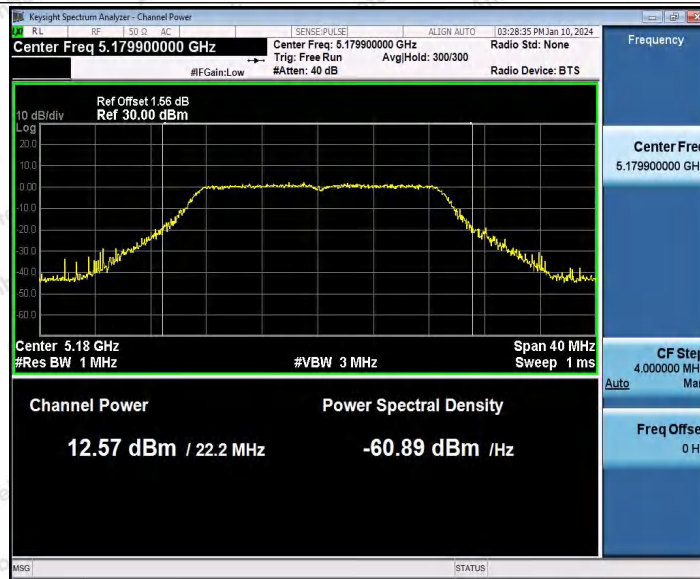
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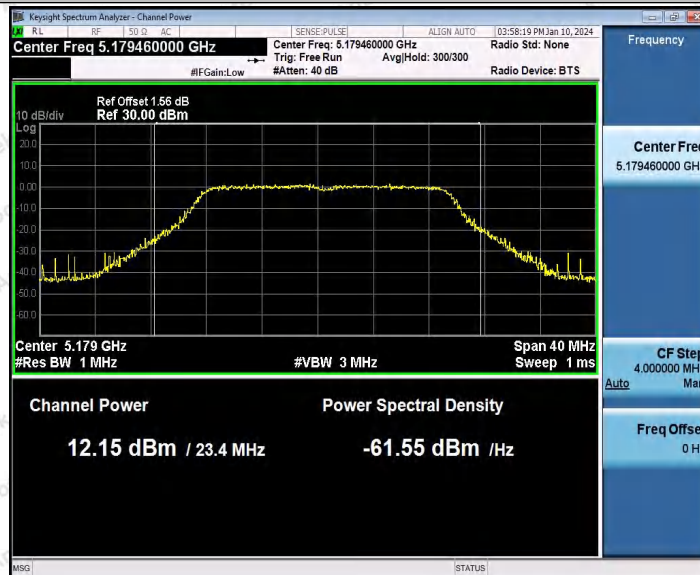


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11AC20SISO_Ant2_5180



11AC20SISO_Ant1_5200



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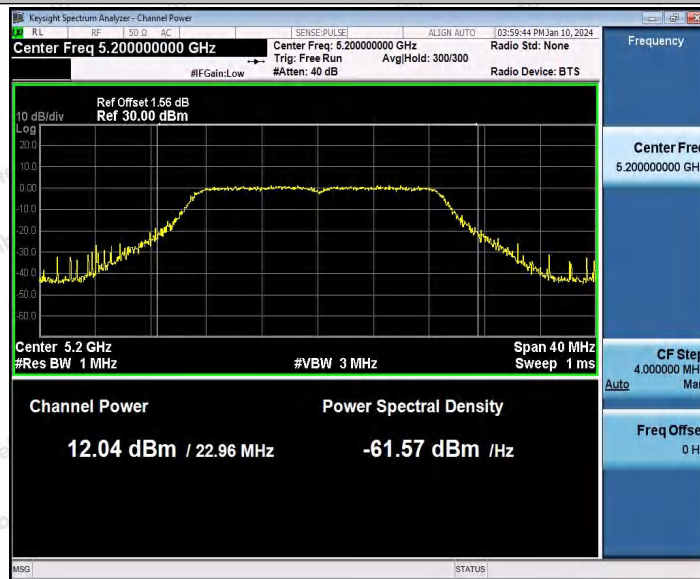
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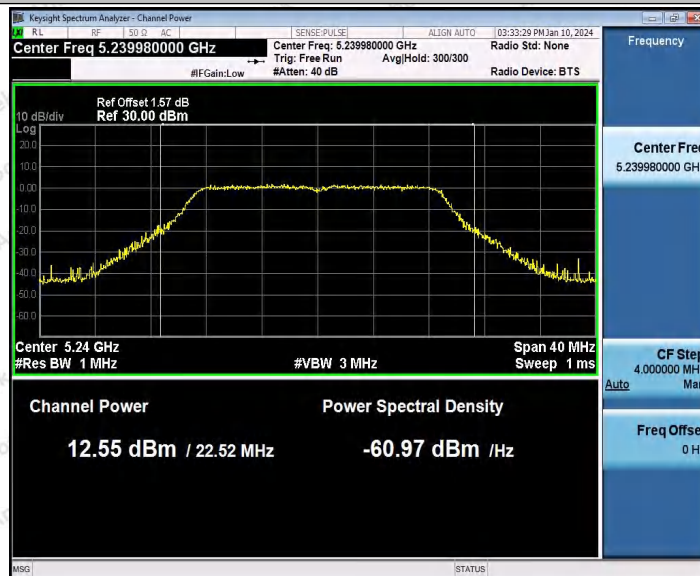
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11AC20SISO_Ant2_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant2_5240

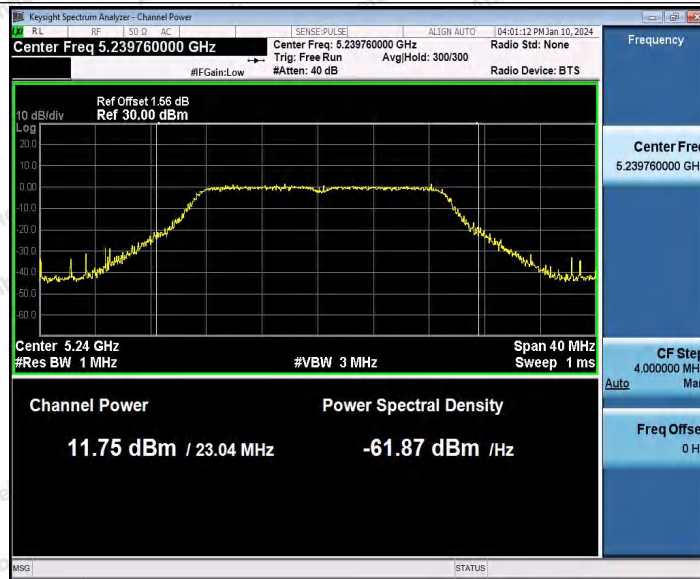
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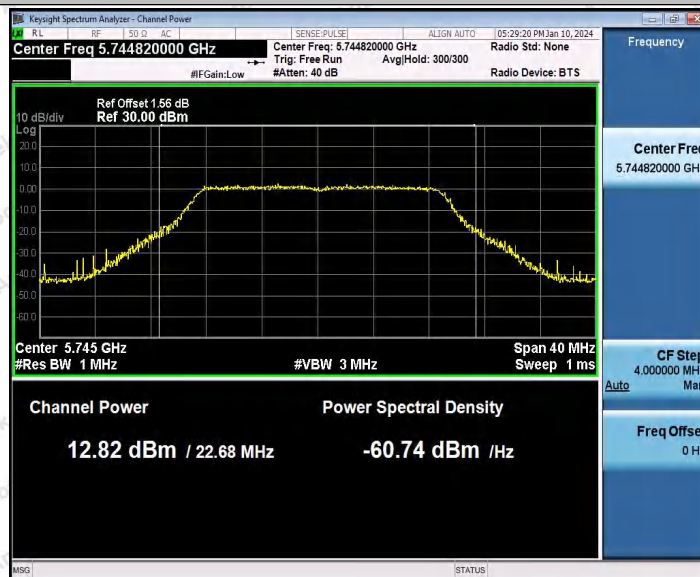


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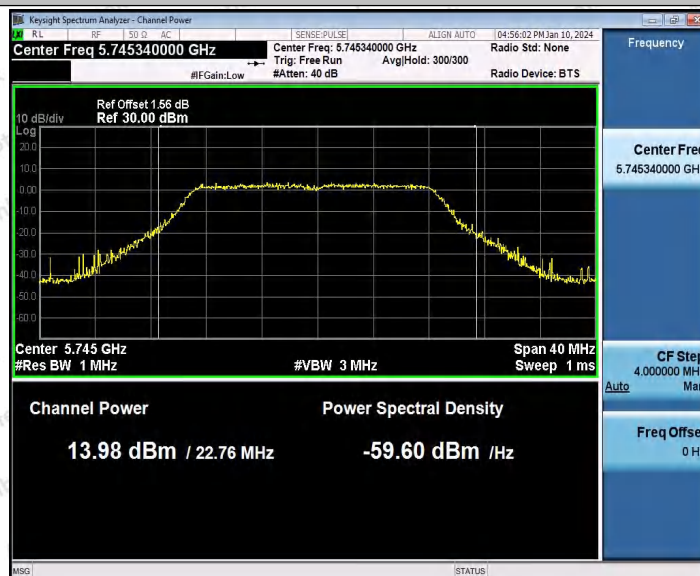




11AC20SISO_Ant1_5745



11AC20SISO_Ant2_5745



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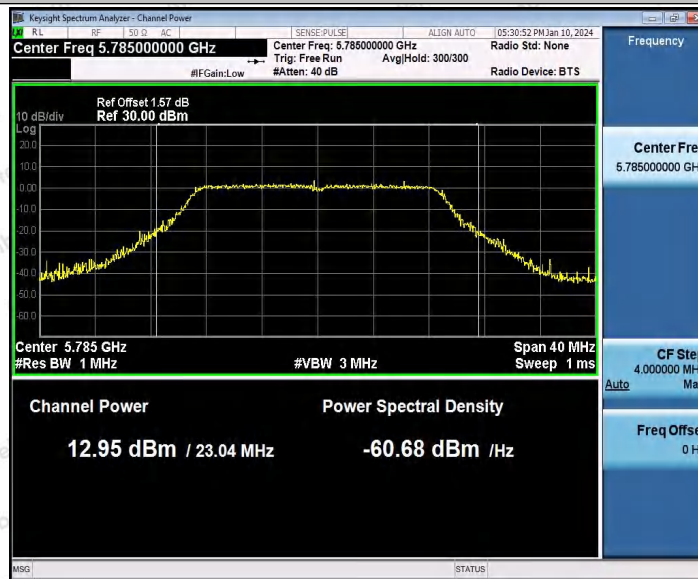
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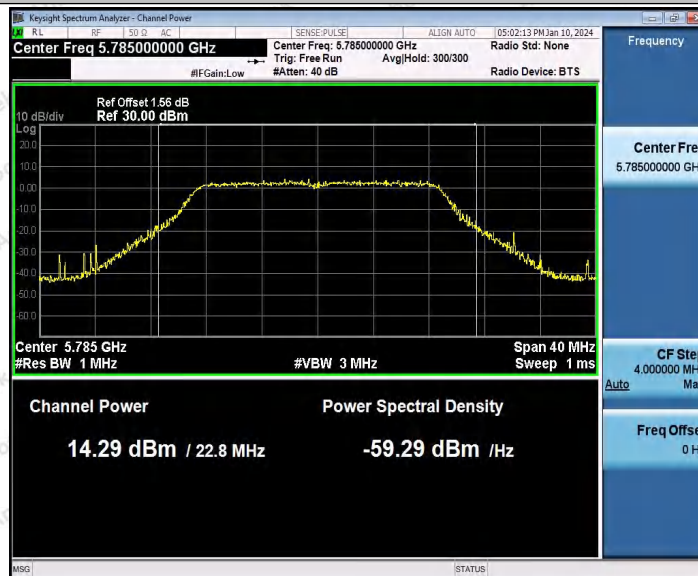
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11AC20SISO_Ant1_5785



11AC20SISO_Ant2_5785



11AC20SISO_Ant1_5825

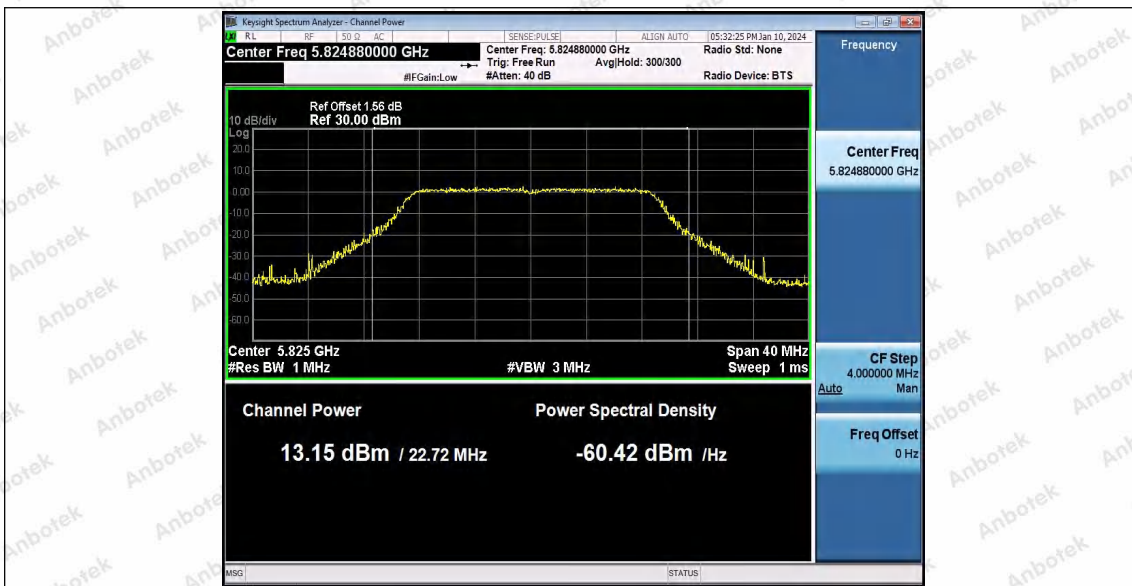
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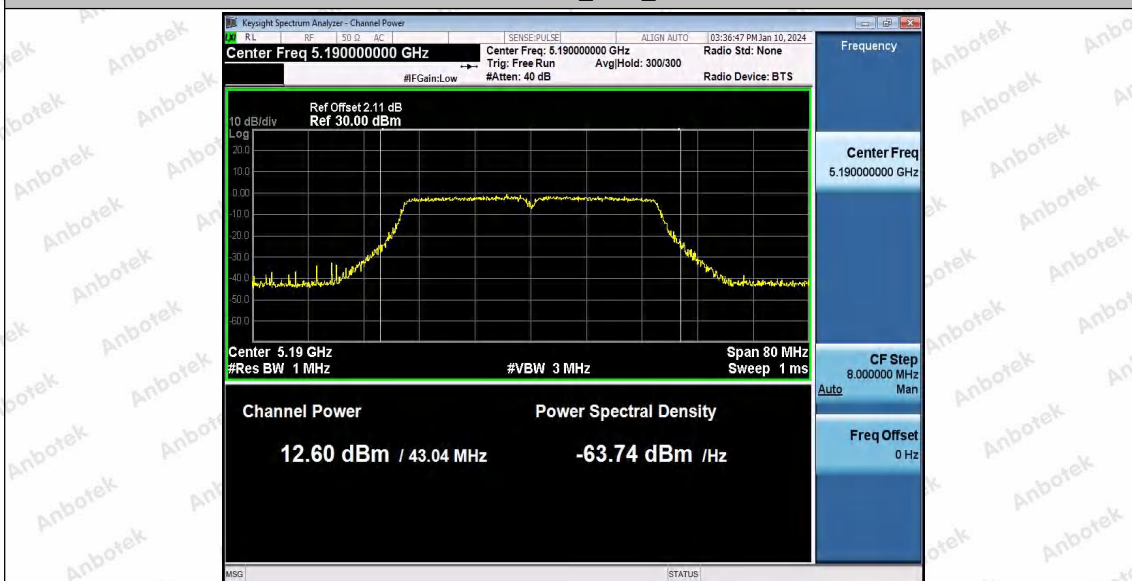




11AC20SISO_Ant2_5825



11AC40SISO_Ant1_5190



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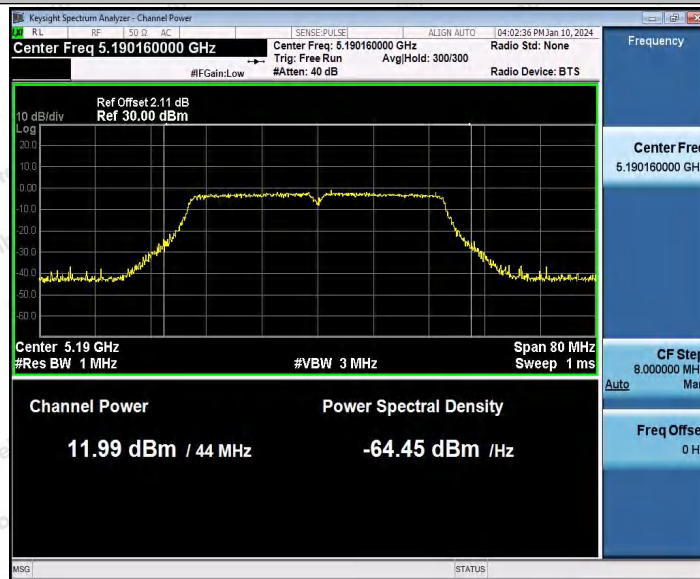
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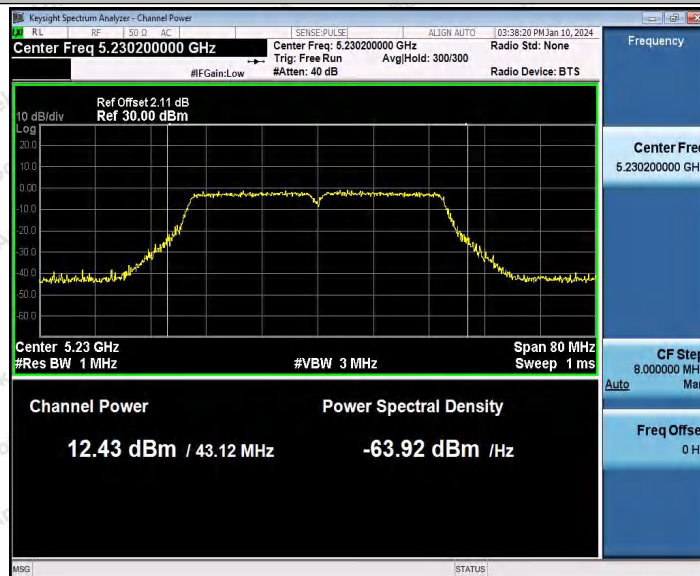
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11AC40SISO_Ant2_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant2_5230

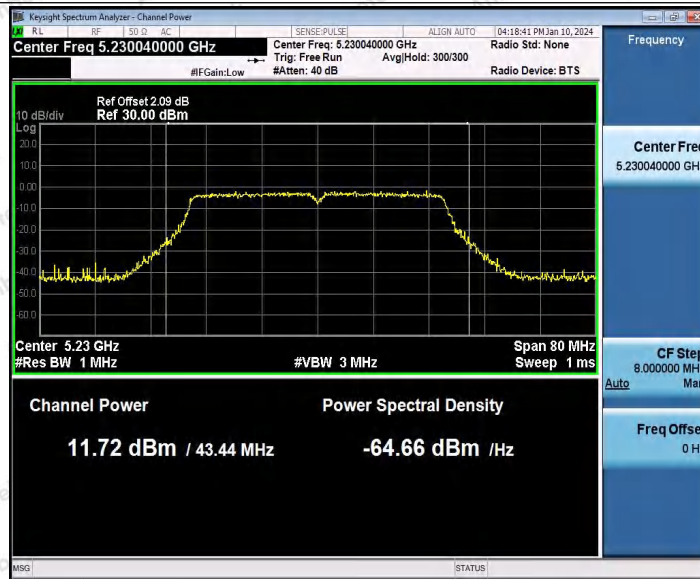
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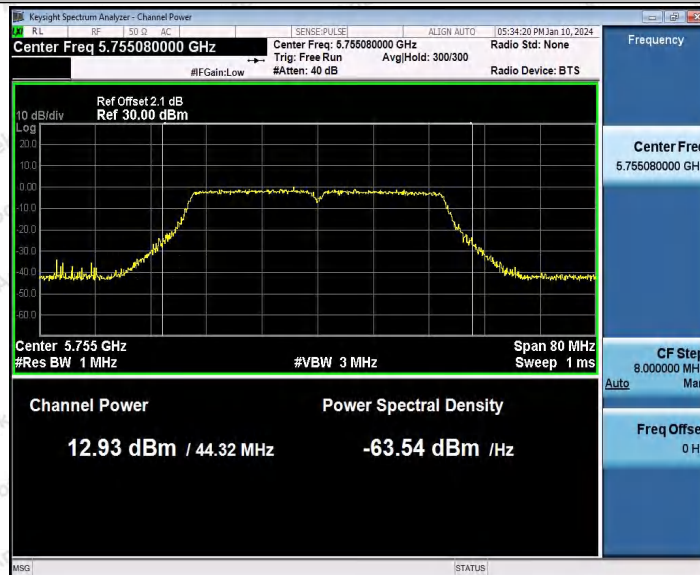


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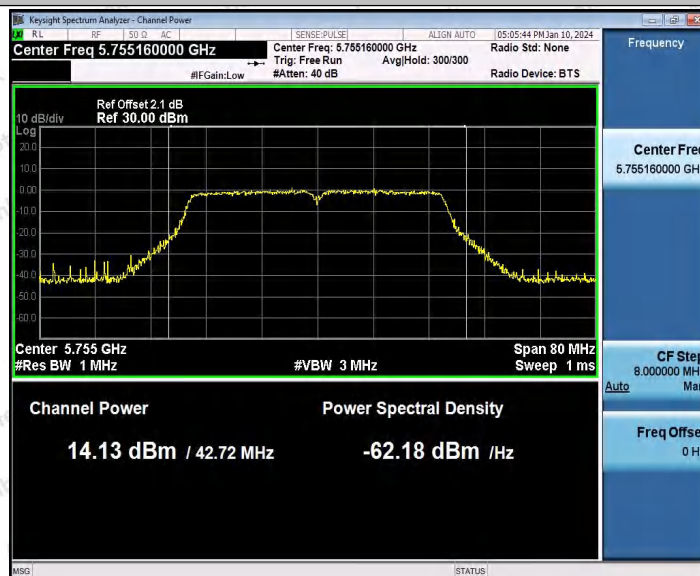




11AC40SISO_Ant1_5755



11AC40SISO_Ant2_5755



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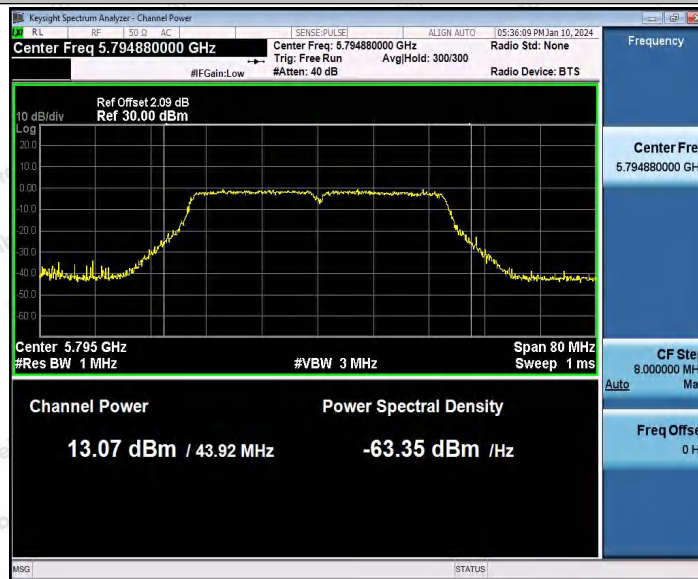
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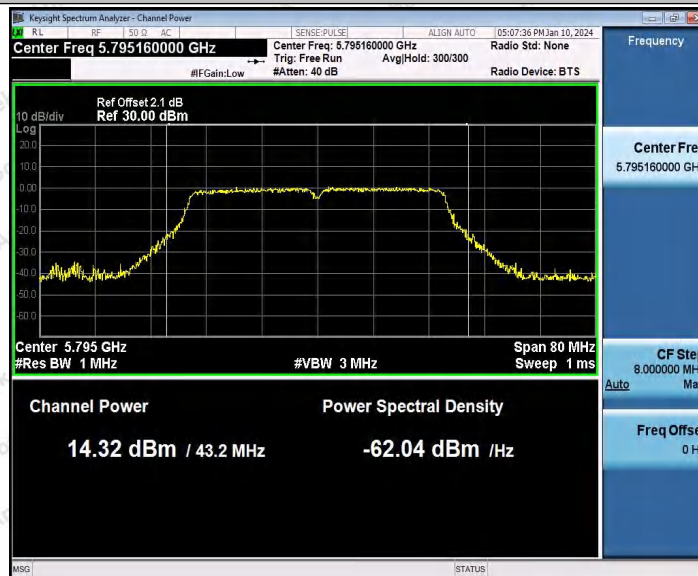
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11AC40SISO_Ant1_5795



11AC40SISO_Ant2_5795



11AC80SISO_Ant1_5210

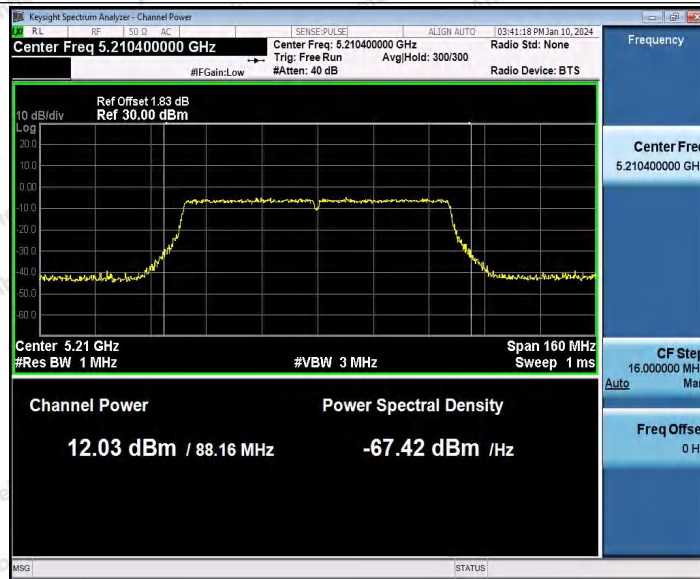
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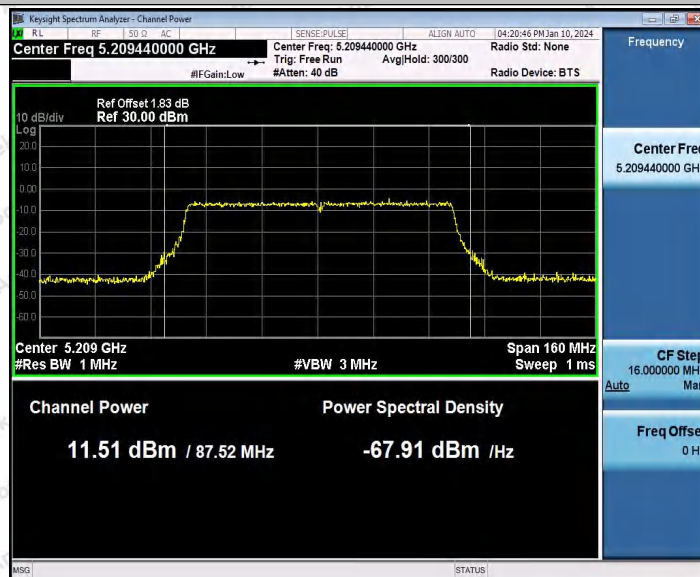


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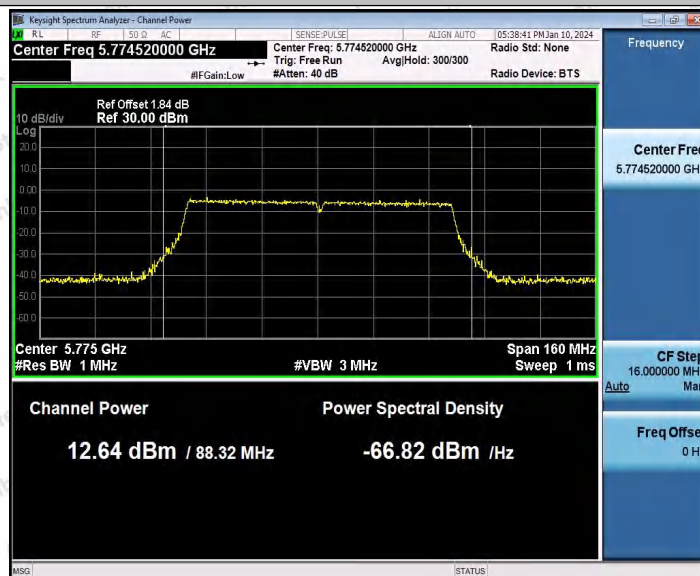




11AC80SISO_Ant2_5210



11AC80SISO_Ant1_5775



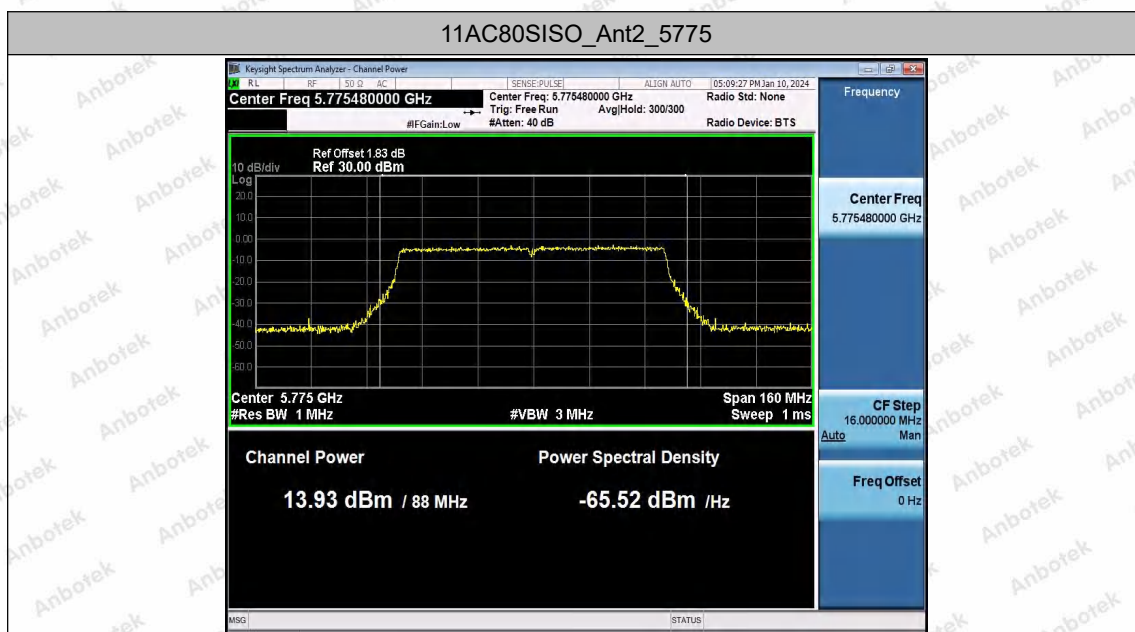
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Appendix D: Maximum power spectral density

Test Result B1

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-3.67	≤17.00	PASS
	Ant2	5180	-4.39	≤17.00	PASS
	Ant1	5200	-3.85	≤17.00	PASS
	Ant2	5200	-4.45	≤17.00	PASS
	Ant1	5240	-4.00	≤17.00	PASS
	Ant2	5240	-4.90	≤17.00	PASS
11N20SISO	Ant1	5180	-4.57	≤17.00	PASS
	Ant2	5180	-4.57	≤17.00	PASS
	Ant1	5200	-4.00	≤17.00	PASS
	Ant2	5200	-4.87	≤17.00	PASS
	Ant1	5240	-3.81	≤17.00	PASS
	Ant2	5240	-4.84	≤17.00	PASS
11N40SISO	Ant1	5190	-7.14	≤17.00	PASS
	Ant2	5190	-7.71	≤17.00	PASS
	Ant1	5230	-8.17	≤17.00	PASS
	Ant2	5230	-9.12	≤17.00	PASS
11AC20SISO	Ant1	5180	-4.51	≤17.00	PASS
	Ant2	5180	-4.55	≤17.00	PASS
	Ant1	5200	-4.20	≤17.00	PASS
	Ant2	5200	-4.93	≤17.00	PASS
	Ant1	5240	-4.39	≤17.00	PASS
	Ant2	5240	-5.13	≤17.00	PASS
11AC40SISO	Ant1	5190	-7.82	≤17.00	PASS
	Ant2	5190	-8.58	≤17.00	PASS
	Ant1	5230	-7.74	≤17.00	PASS
	Ant2	5230	-8.60	≤17.00	PASS
11AC80SISO	Ant1	5210	-11.48	≤17.00	PASS
	Ant2	5210	-12.30	≤17.00	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.



MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Total [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	Ant1	5180	-4.57	-1.56	≤13.99	PASS
	Ant2	5180	-4.57			
	Ant1	5200	-4.00	-1.40		
	Ant2	5200	-4.87			
	Ant1	5240	-3.81	-1.28		
	Ant2	5240	-4.84			
11N40MIMO	Ant1	5190	-7.14	-4.41		PASS
	Ant2	5190	-7.71			
	Ant1	5230	-8.17	-5.61		
	Ant2	5230	-9.12			
11AC20MIMO	Ant1	5180	-4.51	-1.52		PASS
	Ant2	5180	-4.55			
	Ant1	5200	-4.20	-1.54		
	Ant2	5200	-4.93			
	Ant1	5240	-4.39	-1.73		
	Ant2	5240	-5.13			
11AC40MIMO	Ant1	5190	-7.82	-5.17	PASS	
	Ant2	5190	-8.58			
	Ant1	5230	-7.74	-5.14		
	Ant2	5230	-8.60			
11AC80MIMO	Ant1	5210	-11.48	-8.86	PASS	
	Ant2	5210	-12.30			

Note:

1. Total (dBm)= $10 \times \log(10^{(\text{ANT1 power(dBm)}/10)} + 10^{(\text{ANT2 power(dBm)}/10)})$
2. As Directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{\text{ANT}}]$ dBi,
so MIMO Limit (dBm/MHz)=Limit_{B1}-(Directional gain-6.00).



Test Result B4

TestMode	Antenna	Frequency[MHz]	Result [dBm/300KHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-6.44	-4.22	≤30.00	PASS
	Ant2	5745	-5.38	-3.16	≤30.00	PASS
	Ant1	5785	-6.52	-4.30	≤30.00	PASS
	Ant2	5785	-5.33	-3.11	≤30.00	PASS
	Ant1	5825	-6.22	-4.00	≤30.00	PASS
	Ant2	5825	-3.83	-1.61	≤30.00	PASS
11N20SISO	Ant1	5745	-6.63	-4.41	≤30.00	PASS
	Ant2	5745	-5.93	-3.71	≤30.00	PASS
	Ant1	5785	-7.28	-5.06	≤30.00	PASS
	Ant2	5785	-5.67	-3.45	≤30.00	PASS
	Ant1	5825	-6.78	-4.56	≤30.00	PASS
	Ant2	5825	-5.60	-3.38	≤30.00	PASS
11N40SISO	Ant1	5755	-9.57	-7.35	≤30.00	PASS
	Ant2	5755	-8.52	-6.30	≤30.00	PASS
	Ant1	5795	-9.51	-7.29	≤30.00	PASS
	Ant2	5795	-9.03	-6.81	≤30.00	PASS
11AC20SISO	Ant1	5745	-6.99	-4.77	≤30.00	PASS
	Ant2	5745	-5.88	-3.66	≤30.00	PASS
	Ant1	5785	-7.31	-5.09	≤30.00	PASS
	Ant2	5785	-5.82	-3.60	≤30.00	PASS
	Ant1	5825	-6.70	-4.48	≤30.00	PASS
	Ant2	5825	-5.65	-3.43	≤30.00	PASS
11AC40SISO	Ant1	5755	-10.38	-8.16	≤30.00	PASS
	Ant2	5755	-8.82	-6.60	≤30.00	PASS
	Ant1	5795	-10.44	-8.22	≤30.00	PASS
	Ant2	5795	-8.88	-6.66	≤30.00	PASS
11AC80SISO	Ant1	5775	-13.51	-11.29	≤30.00	PASS
	Ant2	5775	-12.45	-10.23	≤30.00	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.



MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm/500K Hz]	Total [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11N20MIMO	Ant1	5745	-4.41	-1.04	≤26.99	PASS
	Ant2	5745	-3.71			
	Ant1	5785	-5.06	-1.17		
	Ant2	5785	-3.45			
	Ant1	5825	-4.56	-0.92		
	Ant2	5825	-3.38			
11N40MIMO	Ant1	5755	-7.35	-3.78		
	Ant2	5755	-6.30			
	Ant1	5795	-7.29	-4.03		
	Ant2	5795	-6.81			
11AC20MIMO	Ant1	5745	-4.77	-1.17		
	Ant2	5745	-3.66			
	Ant1	5785	-5.09	-1.27		
	Ant2	5785	-3.60			
	Ant1	5825	-4.48	-0.91		
	Ant2	5825	-3.43			
11AC40MIMO	Ant1	5755	-8.16	-4.30		
	Ant2	5755	-6.60			
	Ant1	5795	-8.22	-4.36		
	Ant2	5795	-6.66			
11AC80MIMO	Ant1	5775	-11.29	-7.72		
	Ant2	5775	-10.23			

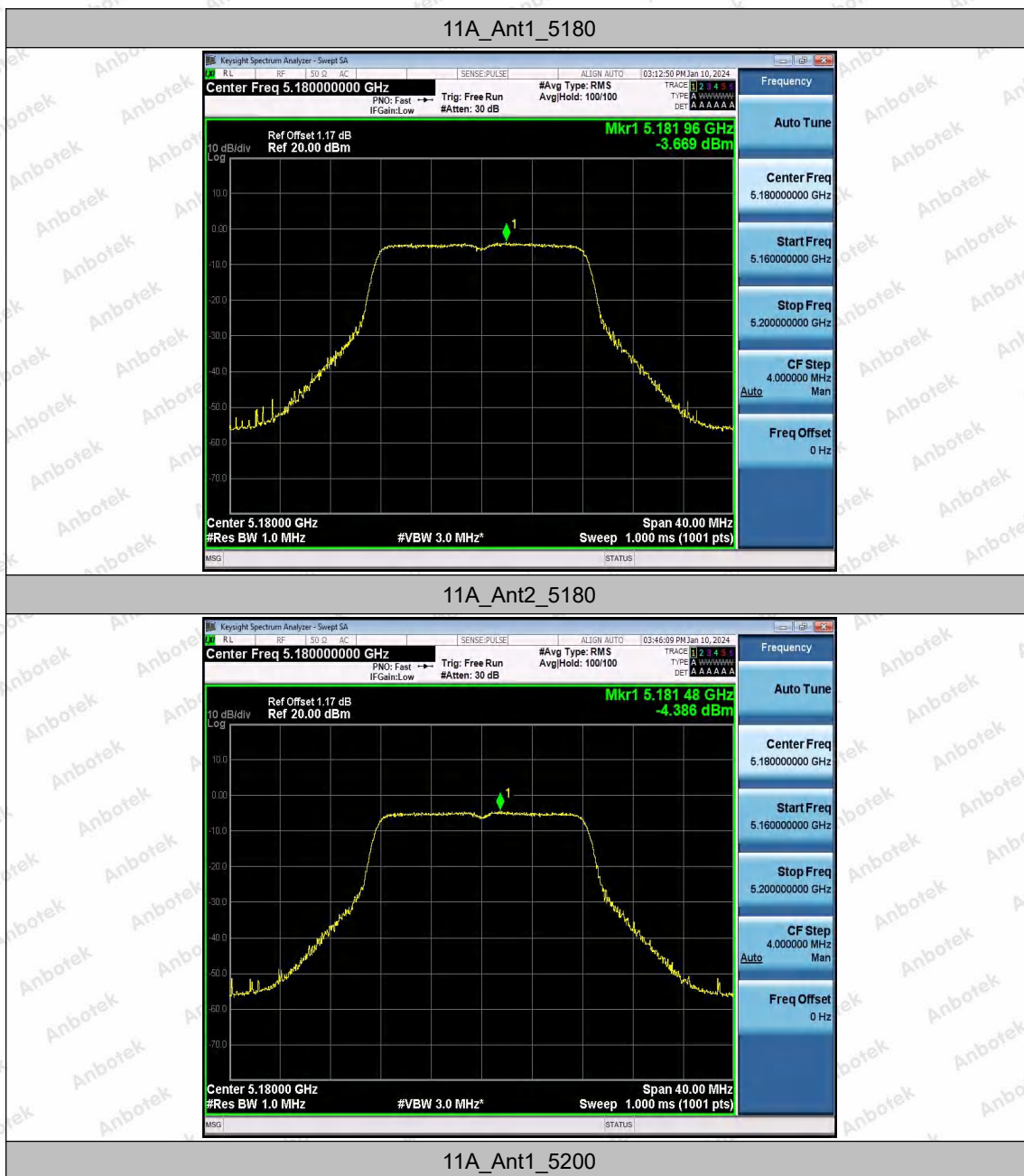
Note:

3. Total (dBm)=10xlog(10^{(ANT1 power(dBm)/10)} + 10^{(ANT2 power(dBm)/10)})

4. As Directional gain=10 log[(10^{G1/20} + 10^{G2/20})² /N_{ANT}] dBi,
so MIMO Limit (dBm/MHz)=Limit_{B4}-(Directional gain-6.00).



Test Graphs B1



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11A_Ant2_5200



11A_Ant1_5240



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11A_Ant2_5240



11N20SISO_Ant1_5180



11N20SISO_Ant2_5180

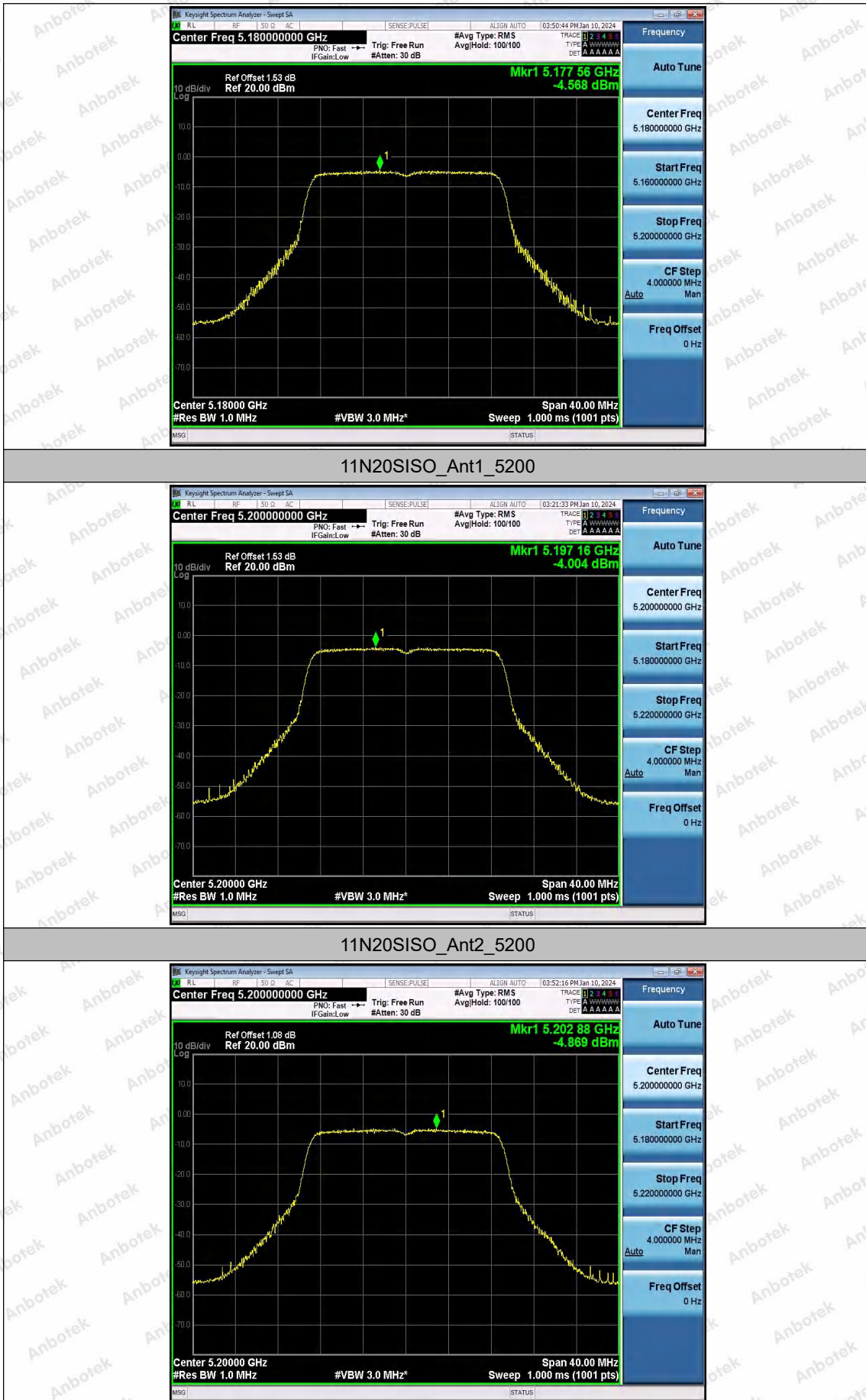
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11N20SISO_Ant2_5240



11N40SISO_Ant1_5190

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline
400-003-0500
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