

Appendix Test Data

Report No:	18220WC30252801	Test Sample NO:	1-2-2
Start Test Date:	2023.12.05	Finish Test Date:	2023.12.07
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.3°C	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.000	5169.440	5190.440	---	---
	Ant2	5180	20.880	5169.560	5190.440	---	---
	Ant1	5200	21.280	5189.400	5210.680	---	---
	Ant2	5200	21.120	5189.360	5210.480	---	---
	Ant1	5240	21.000	5229.480	5250.480	---	---
	Ant2	5240	21.000	5229.520	5250.520	---	---
11N20SISO	Ant1	5180	21.280	5169.360	5190.640	---	---
	Ant2	5180	21.400	5169.360	5190.760	---	---
	Ant1	5200	21.400	5189.320	5210.720	---	---
	Ant2	5200	21.240	5189.360	5210.600	---	---
	Ant1	5240	21.520	5229.200	5250.720	---	---
	Ant2	5240	21.240	5229.320	5250.560	---	---
11N40SISO	Ant1	5190	39.760	5170.160	5209.920	---	---
	Ant2	5190	39.680	5170.160	5209.840	---	---
	Ant1	5230	38.960	5210.560	5249.520	---	---
	Ant2	5230	38.800	5210.640	5249.440	---	---
11AC20SISO	Ant1	5180	21.560	5169.200	5190.760	---	---
	Ant2	5180	21.400	5169.240	5190.640	---	---
	Ant1	5200	21.440	5189.280	5210.720	---	---
	Ant2	5200	21.200	5189.400	5210.600	---	---
	Ant1	5240	21.160	5229.400	5250.560	---	---
	Ant2	5240	21.520	5229.160	5250.680	---	---
11AC40SISO	Ant1	5190	39.760	5170.240	5210.000	---	---

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	Ant2	5190	39.920	5170.000	5209.920	---	---
	Ant1	5230	40.160	5209.760	5249.920	---	---
	Ant2	5230	39.920	5210.080	5250.000	---	---
11AC80SISO	Ant1	5210	80.640	5170.000	5250.640	---	---
	Ant2	5210	80.800	5169.840	5250.640	---	---
11AX20SISO	Ant1	5180	20.840	5169.640	5190.480	---	---
	Ant2	5180	21.560	5169.320	5190.880	---	---
	Ant1	5200	21.320	5189.320	5210.640	---	---
	Ant2	5200	21.120	5189.400	5210.520	---	---
	Ant1	5240	21.000	5229.560	5250.560	---	---
	Ant2	5240	21.160	5229.320	5250.480	---	---
11AX40SISO	Ant1	5190	39.840	5170.240	5210.080	---	---
	Ant2	5190	40.160	5170.160	5210.320	---	---
	Ant1	5230	39.920	5210.160	5250.080	---	---
	Ant2	5230	39.840	5210.080	5249.920	---	---
11AX80SISO	Ant1	5210	80.480	5170.000	5250.480	---	---
	Ant2	5210	80.320	5169.840	5250.160	---	---

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Test Graphs





11A_Ant2_5200



11A_Ant1_5240



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11A_Ant2_5240



11N20SISO_Ant1_5180



11N20SISO_Ant2_5180

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11N20SISO_Ant1_5200



11N20SISO_Ant2_5200



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11N20SISO_Ant1_5240



11N20SISO_Ant2_5240



11N40SISO_Ant1_5190

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11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



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11N40SISO_Ant2_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant2_5180

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11AC20SISO_Ant1_5200



11AC20SISO_Ant2_5200



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11AC20SISO_Ant1_5240



11AC20SISO_Ant2_5240



11AC40SISO_Ant1_5190

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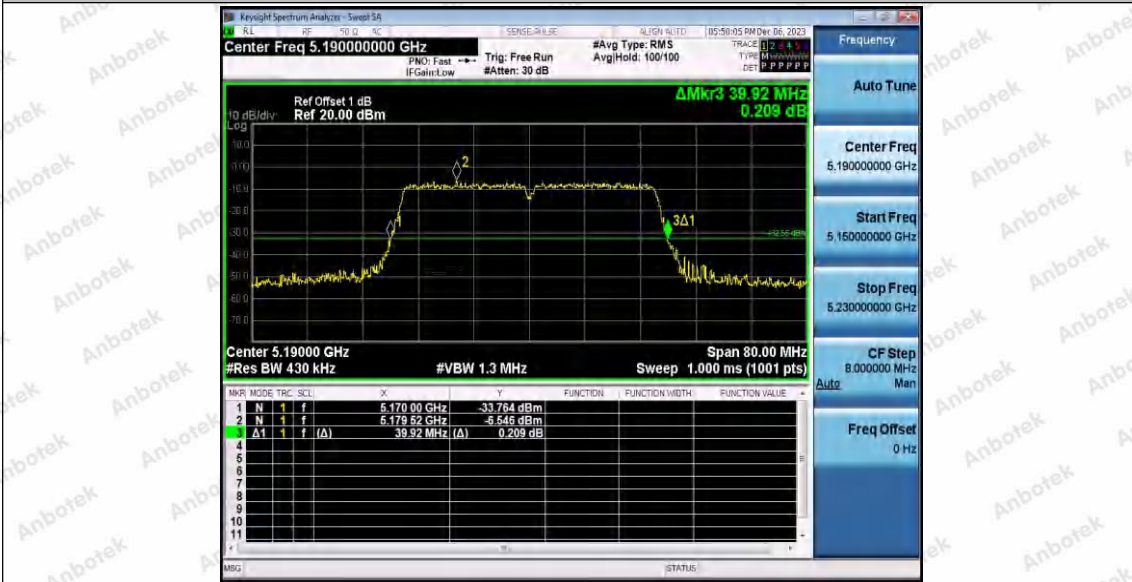
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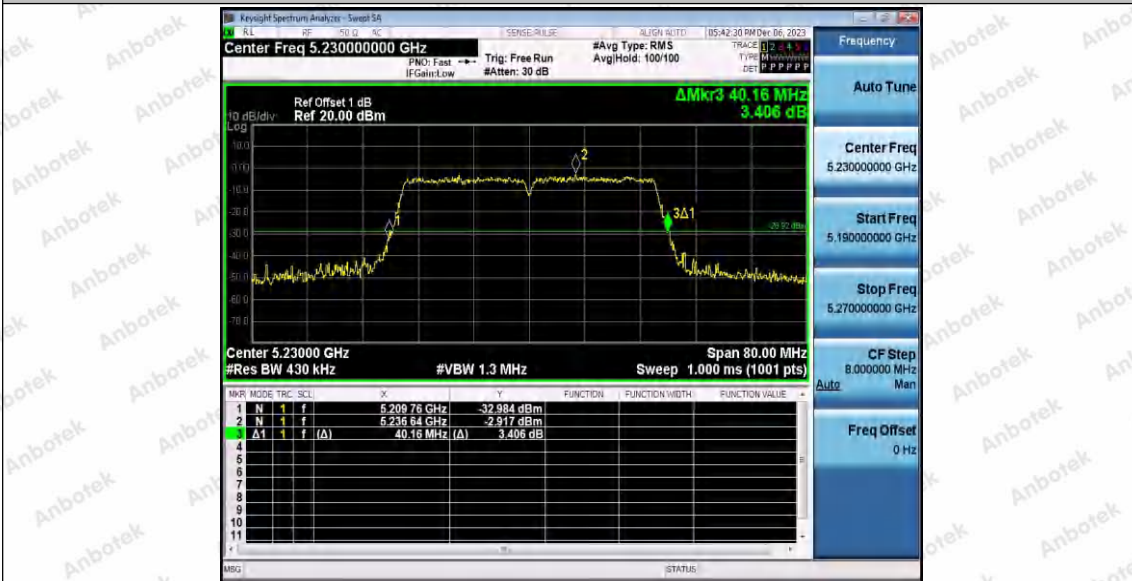




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11AC40SISO_Ant1_5230



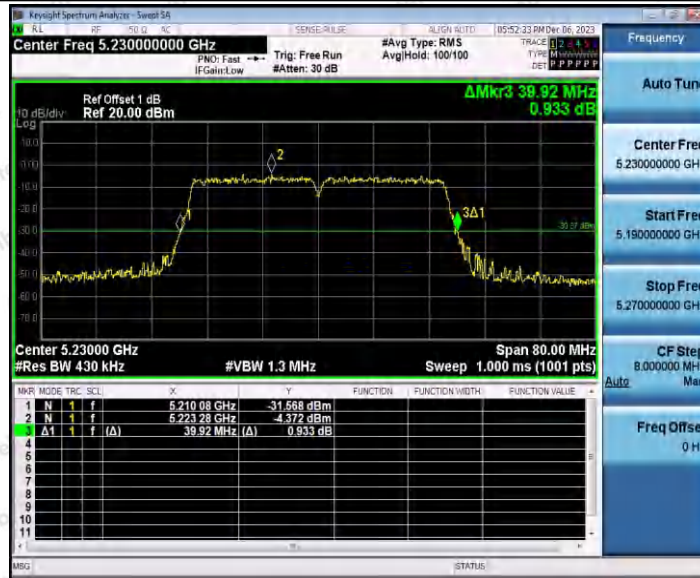
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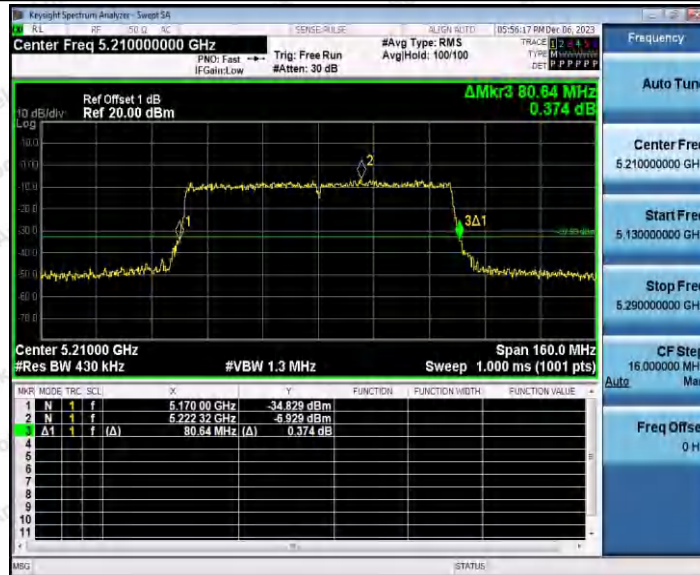
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11AC40SISO_Ant2_5230



11AC80SISO_Ant1_5210



11AC80SISO_Ant2_5210

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11AX20SISO_Ant1_5180



11AX20SISO_Ant2_5180



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11AX20SISO_Ant1_5200



11AX20SISO_Ant2_5200



11AX20SISO_Ant1_5240

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11AX20SISO_Ant2_5240



11AX40SISO_Ant1_5190



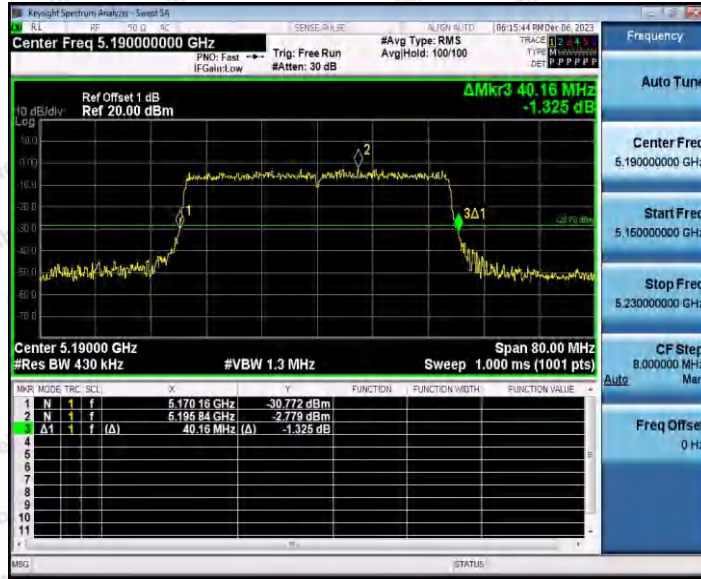
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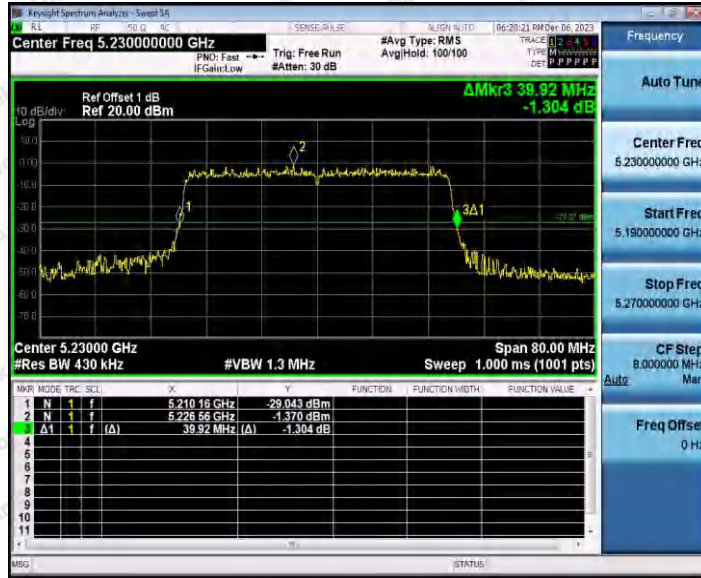
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11AX40SISO_Ant2_5190



11AX40SISO_Ant1_5230



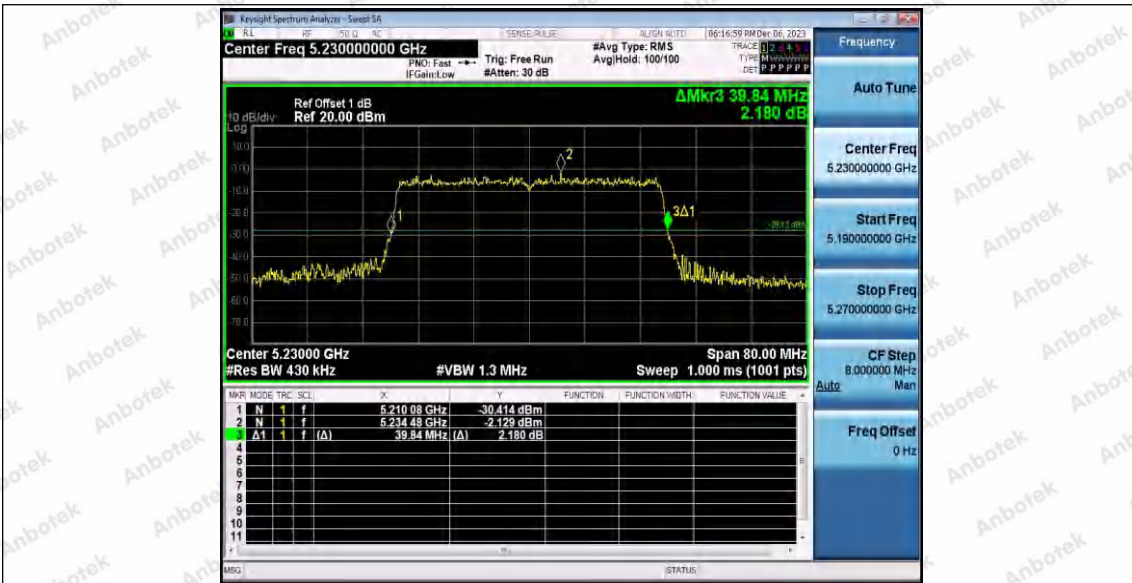
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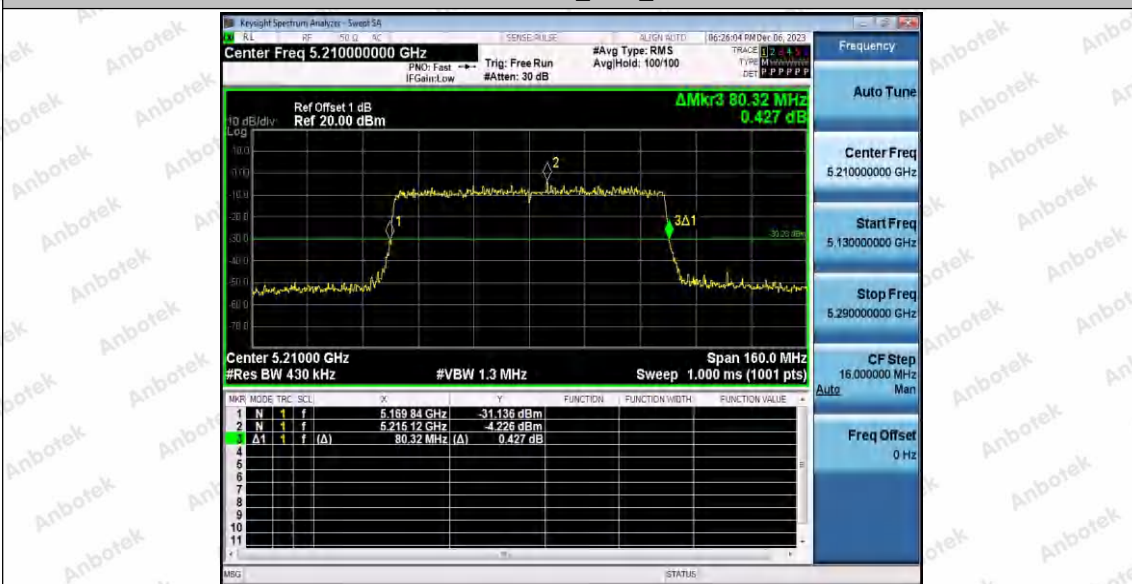




11AX80SISO_Ant1_5210



11AX80SISO_Ant2_5210



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Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.282	5171.2888	5188.5708	---	---
	Ant2	5180	17.213	5171.3814	5188.5944	---	---
	Ant1	5200	17.266	5191.3448	5208.6108	---	---
	Ant2	5200	17.301	5191.3486	5208.6496	---	---
	Ant1	5240	17.310	5231.3599	5248.6699	---	---
	Ant2	5240	17.301	5231.3194	5248.6204	---	---
11N20SISO	Ant1	5180	18.292	5170.8710	5189.1630	---	---
	Ant2	5180	18.308	5170.8608	5189.1688	---	---
	Ant1	5200	18.301	5190.8393	5209.1403	---	---
	Ant2	5200	18.284	5190.8782	5209.1622	---	---
	Ant1	5240	18.254	5230.8742	5249.1282	---	---
	Ant2	5240	18.394	5230.7897	5249.1837	---	---
11N40SISO	Ant1	5190	36.558	5171.7958	5208.3538	---	---
	Ant2	5190	36.579	5171.7634	5208.3424	---	---
	Ant1	5230	36.502	5211.8130	5248.3150	---	---
	Ant2	5230	36.505	5211.8088	5248.3138	---	---
11AC20SISO	Ant1	5180	18.351	5170.8169	5189.1679	---	---
	Ant2	5180	18.309	5170.8298	5189.1388	---	---
	Ant1	5200	18.360	5190.8014	5209.1614	---	---
	Ant2	5200	18.387	5190.7932	5209.1802	---	---
	Ant1	5240	18.358	5230.8218	5249.1798	---	---
	Ant2	5240	18.306	5230.8425	5249.1485	---	---
11AC40SISO	Ant1	5190	36.744	5171.7499	5208.4939	---	---
	Ant2	5190	36.655	5171.7153	5208.3703	---	---
	Ant1	5230	36.652	5211.7431	5248.3951	---	---
	Ant2	5230	36.726	5211.6696	5248.3956	---	---
11AC80SISO	Ant1	5210	75.987	5172.2658	5248.2528	---	---
	Ant2	5210	76.083	5172.1668	5248.2498	---	---
11AX20SISO	Ant1	5180	18.982	5170.5132	5189.4952	---	---
	Ant2	5180	19.029	5170.4736	5189.5026	---	---
	Ant1	5200	19.018	5190.4576	5209.4756	---	---
	Ant2	5200	19.016	5190.4734	5209.4894	---	---
	Ant1	5240	18.982	5230.5054	5249.4874	---	---
	Ant2	5240	19.055	5230.4648	5249.5198	---	---
11AX40SISO	Ant1	5190	37.634	5171.2691	5208.9031	---	---
	Ant2	5190	37.712	5171.2218	5208.9338	---	---
	Ant1	5230	37.688	5211.2300	5248.9180	---	---

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	Ant2	5230	37.679	5211.1674	5248.8464	---	---
11AX80SISO	Ant1	5210	77.390	5171.5655	5248.9555	---	---
	Ant2	5210	77.243	5171.5444	5248.7874	---	---

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Test Graphs





11A_Ant2_5200



11A_Ant1_5240



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11A_Ant2_5240



11N20SISO_Ant1_5180



11N20SISO_Ant2_5180

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11N20SISO_Ant1_5200



11N20SISO_Ant2_5200



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11N20SISO_Ant1_5240



11N20SISO_Ant2_5240



11N40SISO_Ant1_5190

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11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



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11N40SISO_Ant2_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant2_5180

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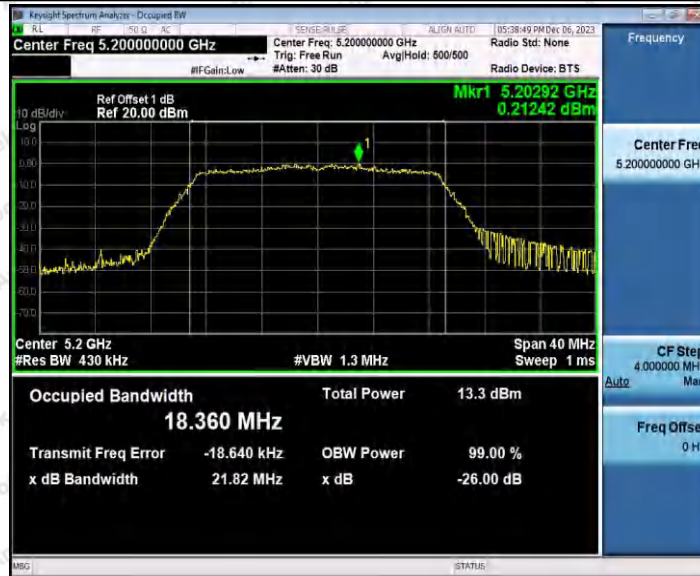
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11AC20SISO_Ant1_5200



11AC20SISO_Ant2_5200



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11AC20SISO_Ant1_5240



11AC20SISO_Ant2_5240



11AC40SISO_Ant1_5190

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11AC40SISO_Ant2_5190



11AC40SISO_Ant1_5230



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11AC40SISO_Ant2_5230



11AC80SISO_Ant1_5210



11AC80SISO_Ant2_5210

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11AX20SISO_Ant1_5180



11AX20SISO_Ant2_5180



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11AX20SISO_Ant1_5200



11AX20SISO_Ant2_5200



11AX20SISO_Ant1_5240

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11AX20SISO_Ant2_5240



11AX40SISO_Ant1_5190



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11AX40SISO_Ant2_5190



11AX40SISO_Ant1_5230



11AX40SISO_Ant2_5230

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11AX80SISO_Ant1_5210



11AX80SISO_Ant2_5210



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Appendix B: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.49	93.29
	Ant2	5180	1.40	1.49	93.96
	Ant1	5200	1.39	1.49	93.29
	Ant2	5200	1.39	1.49	93.29
	Ant1	5240	1.40	1.50	93.33
	Ant2	5240	1.39	1.49	93.29
11N20SISO	Ant1	5180	1.31	1.40	93.57
	Ant2	5180	1.30	1.40	92.86
	Ant1	5200	1.30	1.40	92.86
	Ant2	5200	1.31	1.40	93.57
	Ant1	5240	1.31	1.41	92.91
	Ant2	5240	1.30	1.40	92.86
11N40SISO	Ant1	5190	0.13	0.23	56.52
	Ant2	5190	0.13	0.23	56.52
	Ant1	5230	0.13	0.23	56.52
	Ant2	5230	0.13	0.23	56.52
11AC20SISO	Ant1	5180	1.32	1.42	92.96
	Ant2	5180	1.31	1.41	92.91
	Ant1	5200	1.32	1.42	92.96
	Ant2	5200	1.32	1.42	92.96
	Ant1	5240	1.32	1.42	92.96
	Ant2	5240	1.32	1.42	92.96
11AC40SISO	Ant1	5190	0.66	0.76	86.84
	Ant2	5190	0.66	0.76	86.84
	Ant1	5230	0.66	0.76	86.84
	Ant2	5230	0.65	0.75	86.67
11AC80SISO	Ant1	5210	0.32	0.42	76.19
	Ant2	5210	0.33	0.43	76.74
11AX20SISO	Ant1	5180	1.02	1.12	91.07
	Ant2	5180	1.02	1.12	91.07
	Ant1	5200	1.02	1.12	91.07
	Ant2	5200	1.02	1.12	91.07
	Ant1	5240	1.02	1.12	91.07
	Ant2	5240	1.02	1.12	91.07
11AX40SISO	Ant1	5190	0.54	0.64	84.38
	Ant2	5190	0.54	0.64	84.38
	Ant1	5230	0.53	0.63	84.13

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	Ant2	5230	0.54	0.64	84.38
11AX80SISO	Ant1	5210	0.29	0.39	74.36
	Ant2	5210	0.29	0.39	74.36

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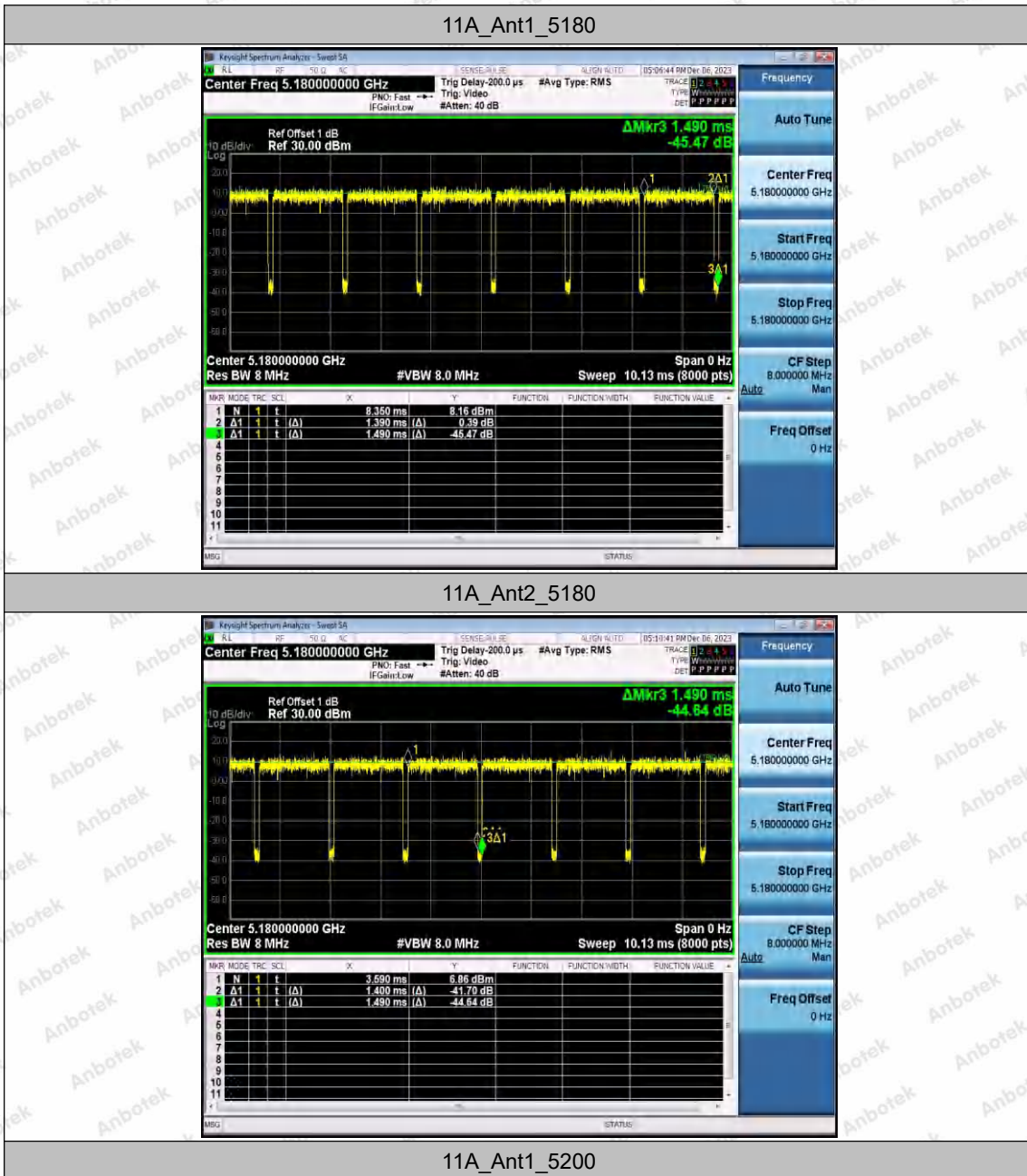
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Test Graphs

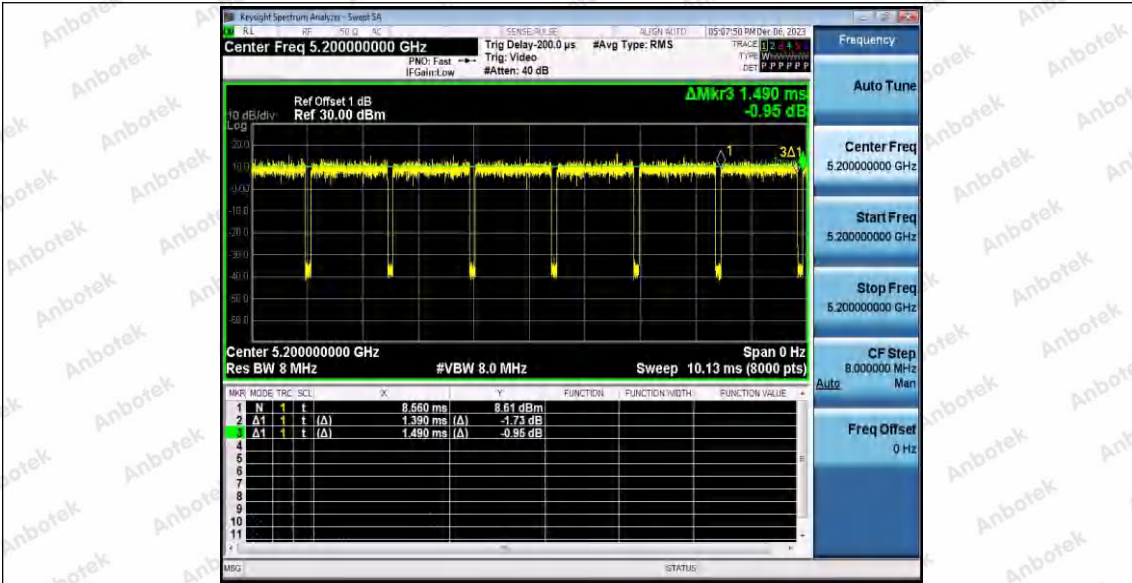


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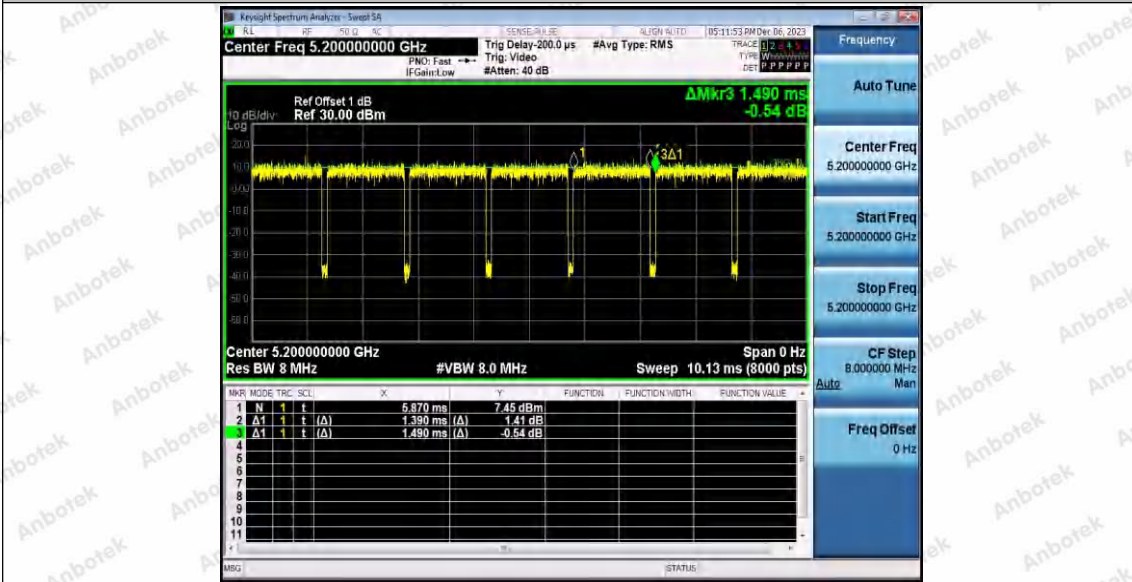
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11A_Ant2_5200



11A_Ant1_5240



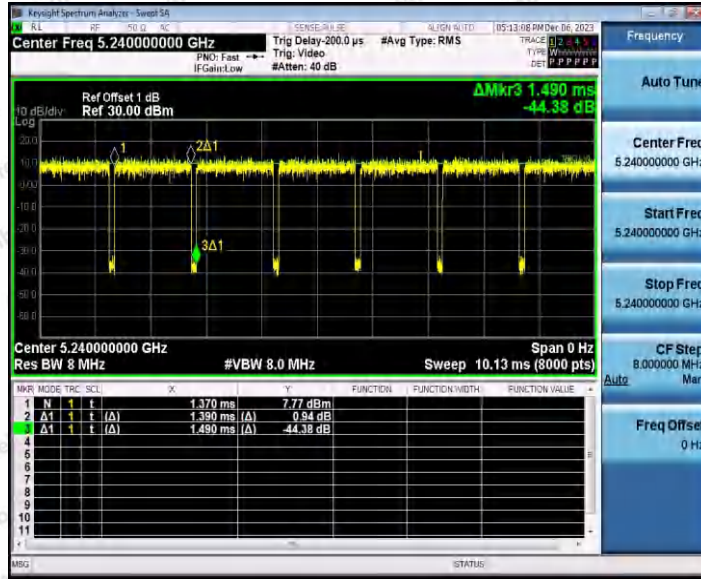
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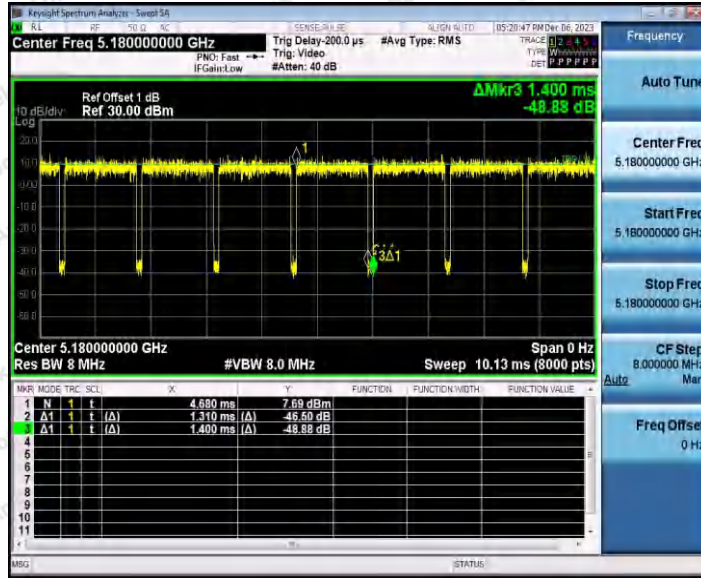
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11A_Ant2_5240



11N20SISO_Ant1_5180



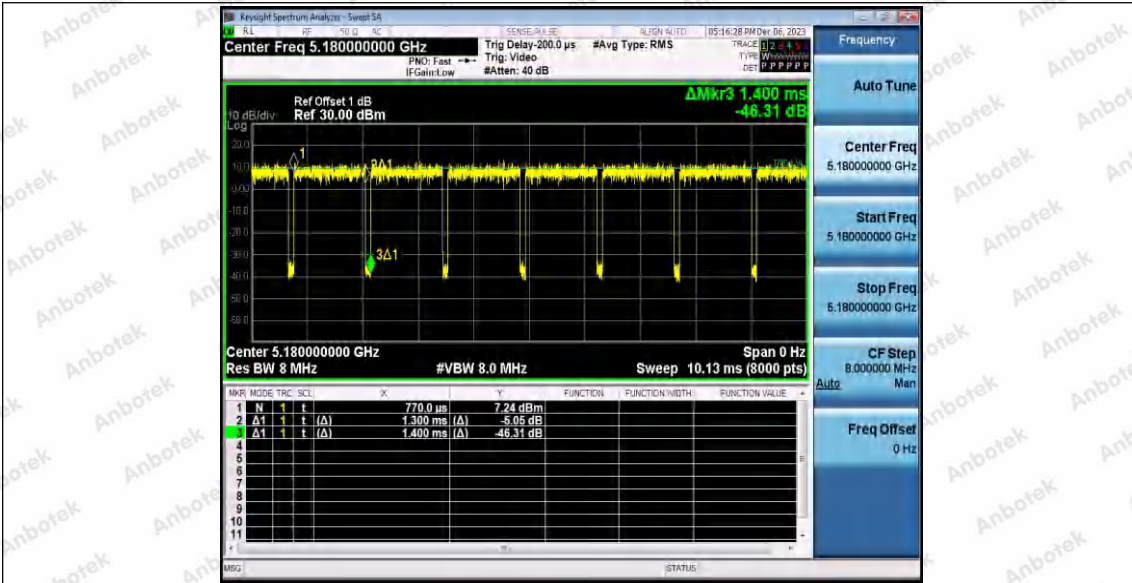
11N20SISO_Ant2_5180

Shenzhen Anbotek Compliance Laboratory Limited

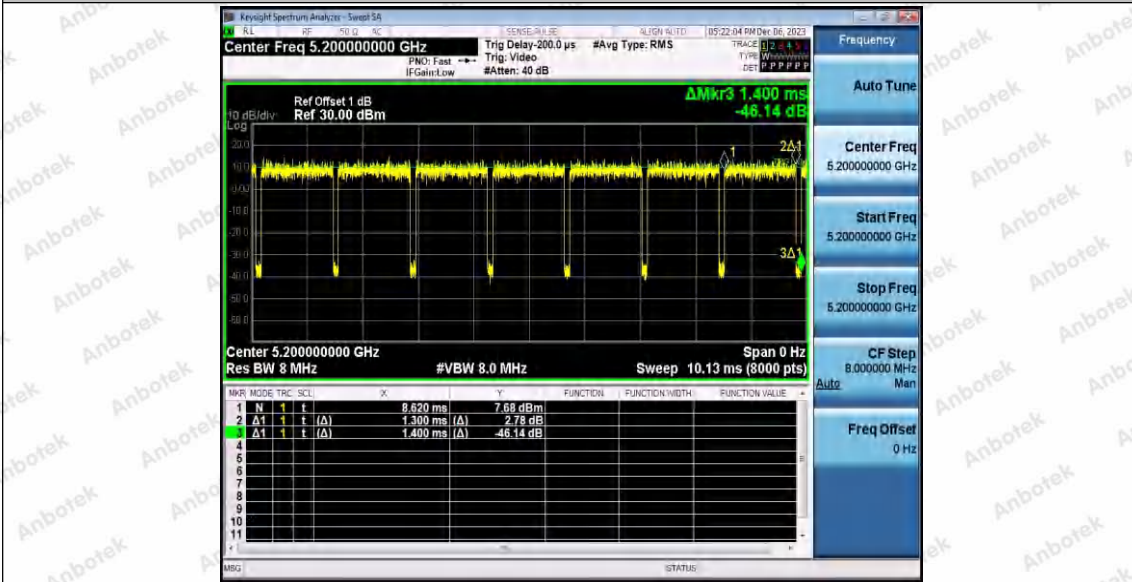
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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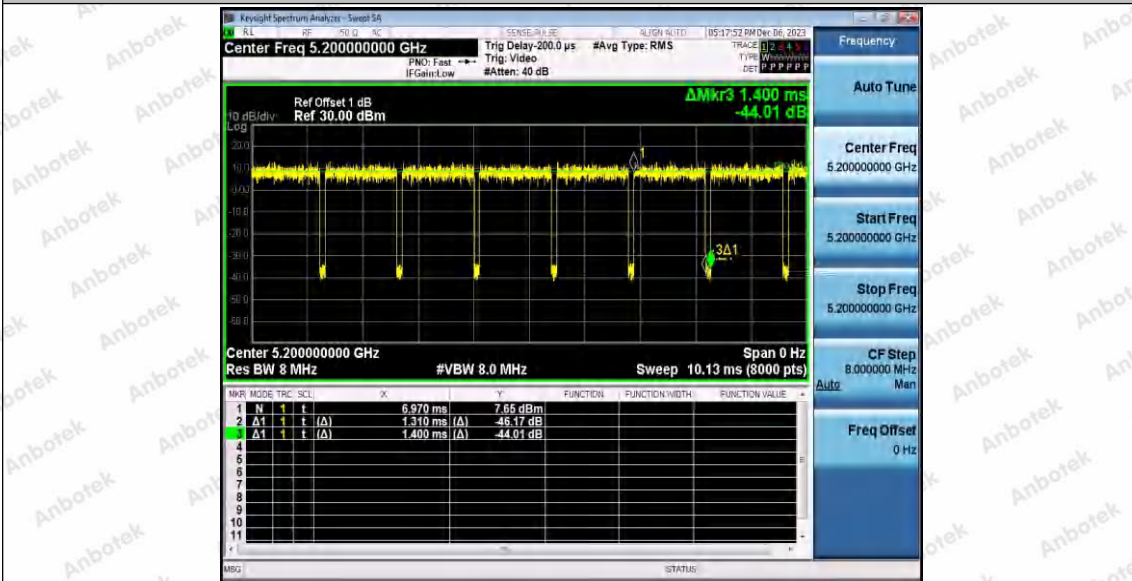




11N20SISO_Ant1_5200



11N20SISO_Ant2_5200



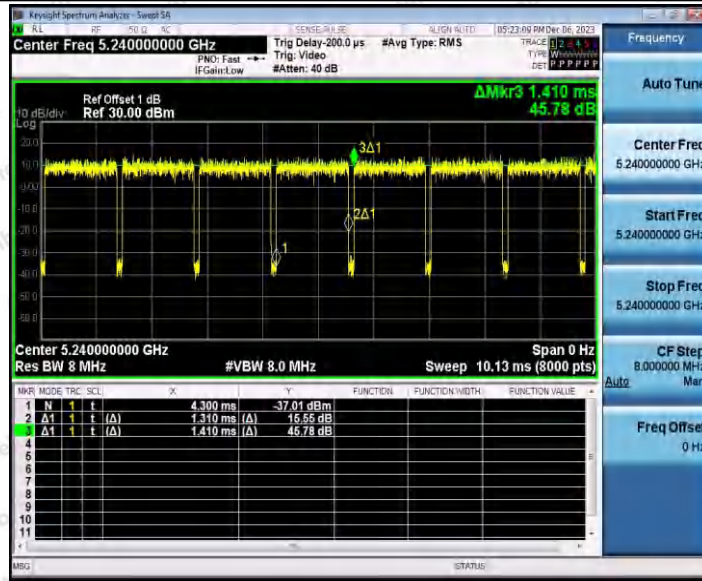
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

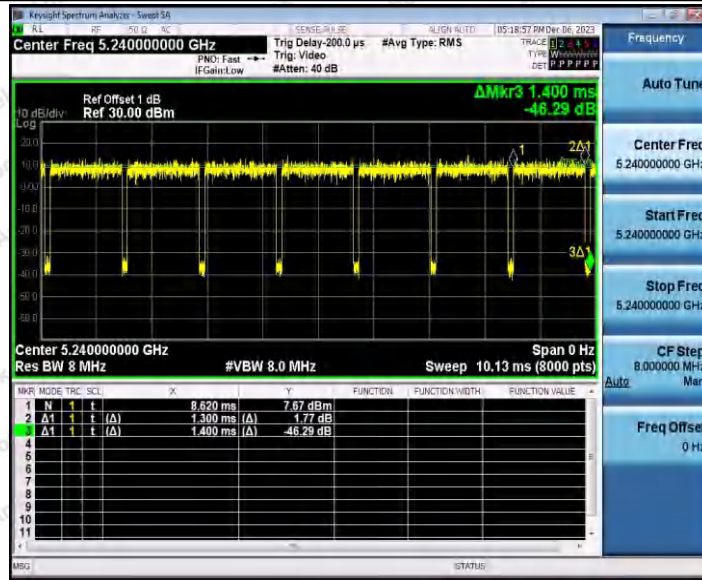
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11N20SISO_Ant1_5240



11N20SISO_Ant2_5240



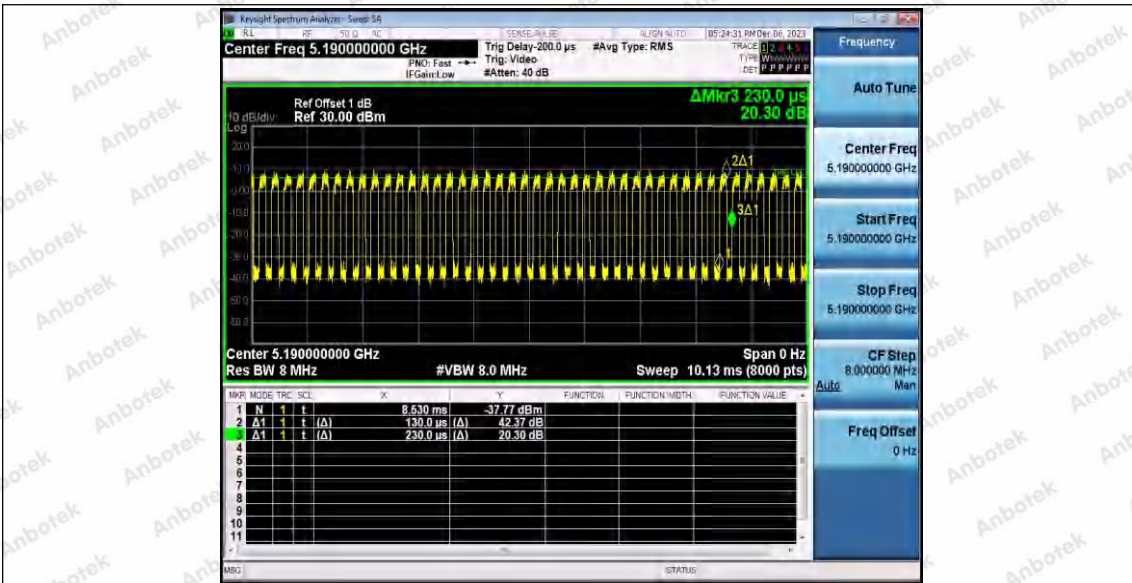
11N40SISO_Ant1_5190

Shenzhen Anbotek Compliance Laboratory Limited

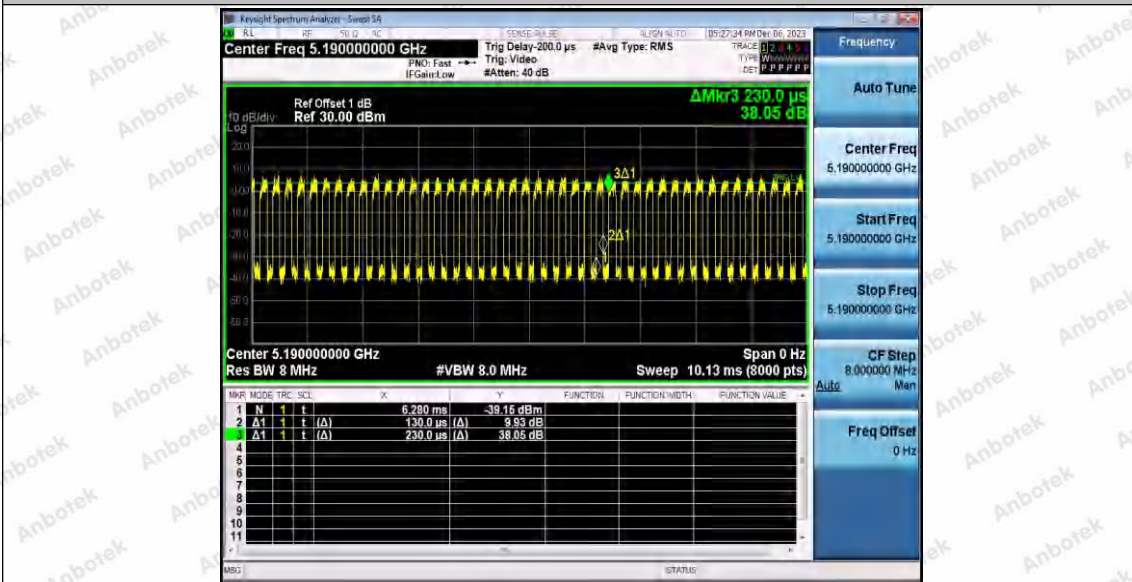
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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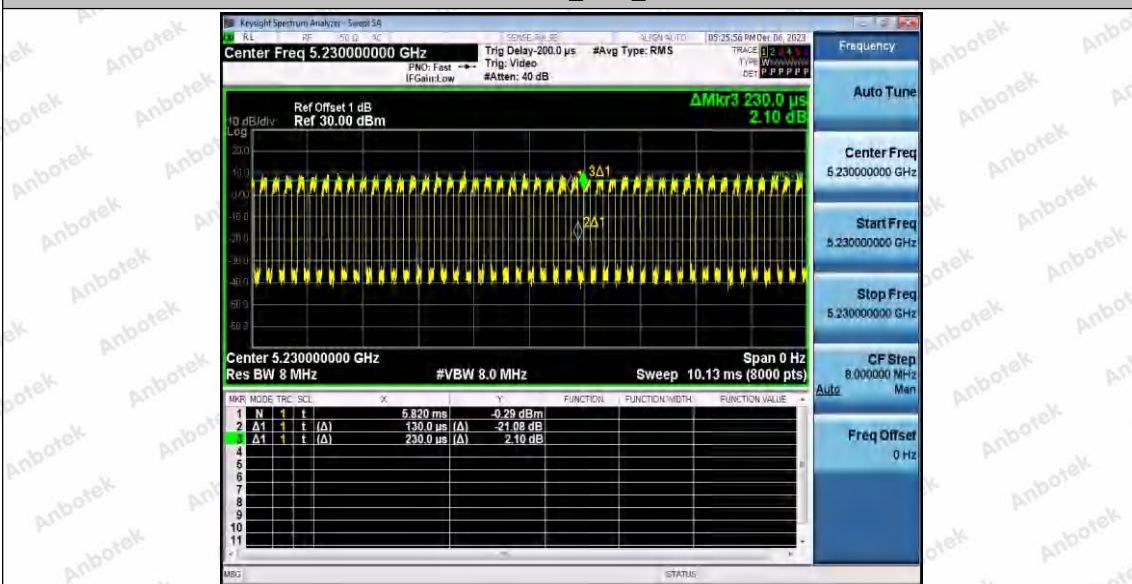




11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



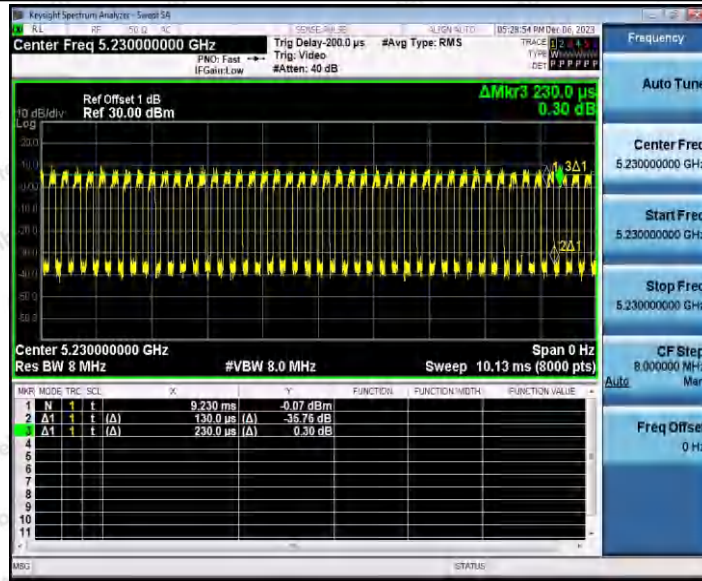
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

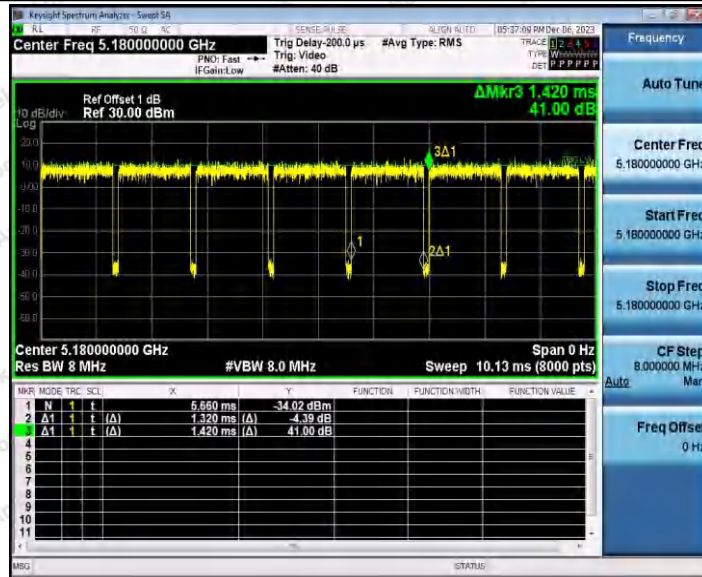
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11N40SISO_Ant2_5230



11AC20SISO_Ant1_5180



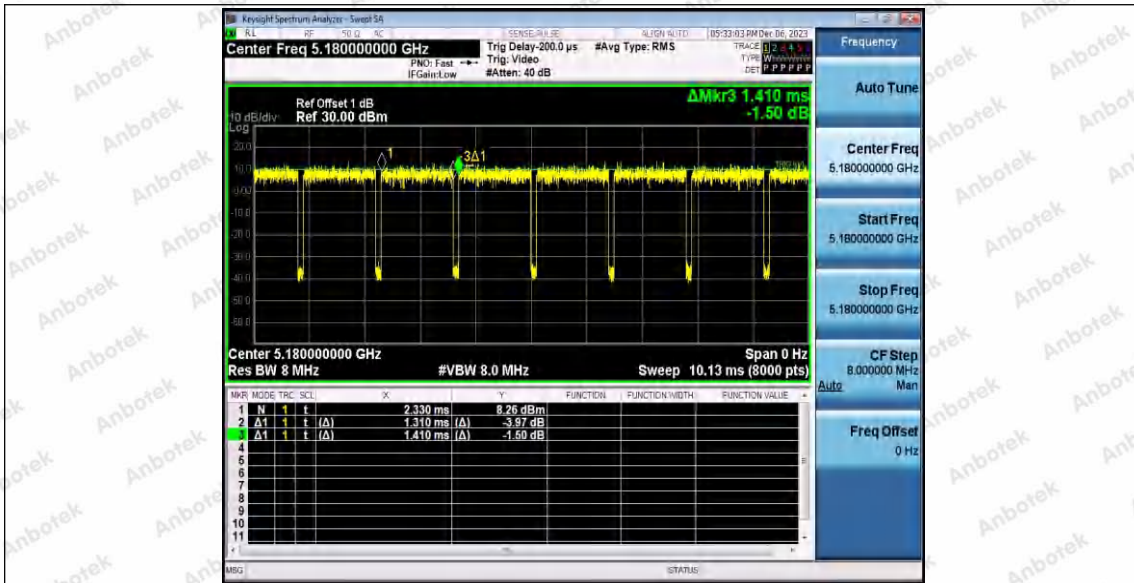
11AC20SISO_Ant2_5180

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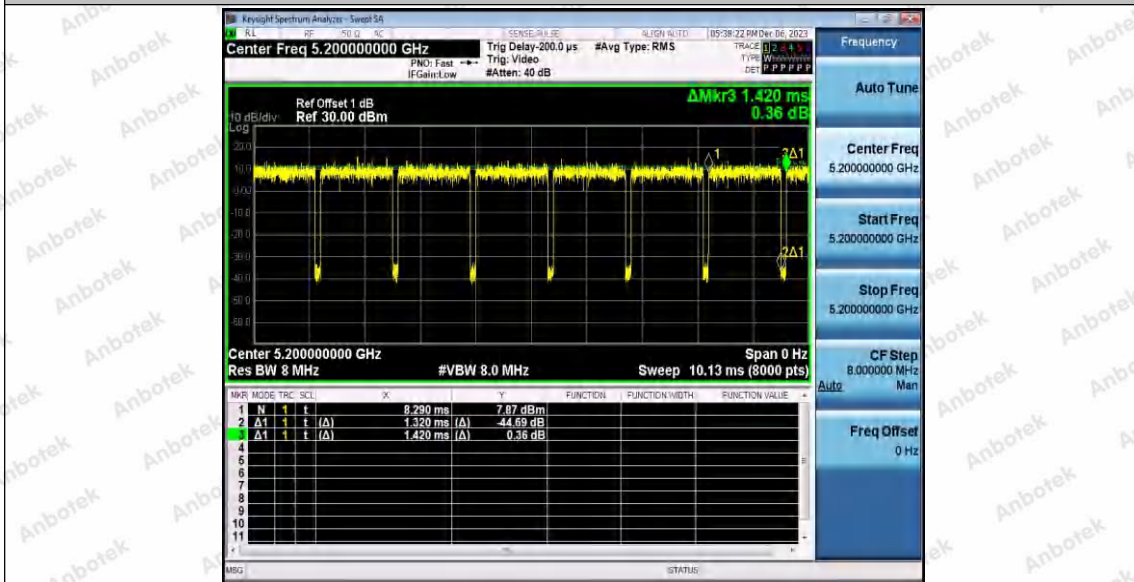
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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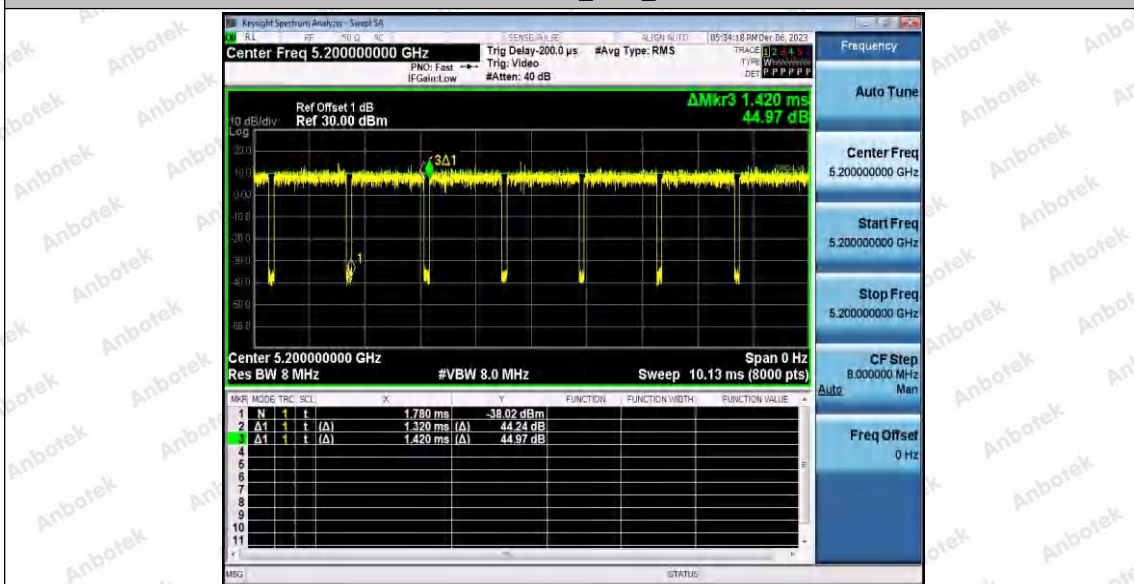




11AC20SISO_Ant1_5200



11AC20SISO_Ant2_5200



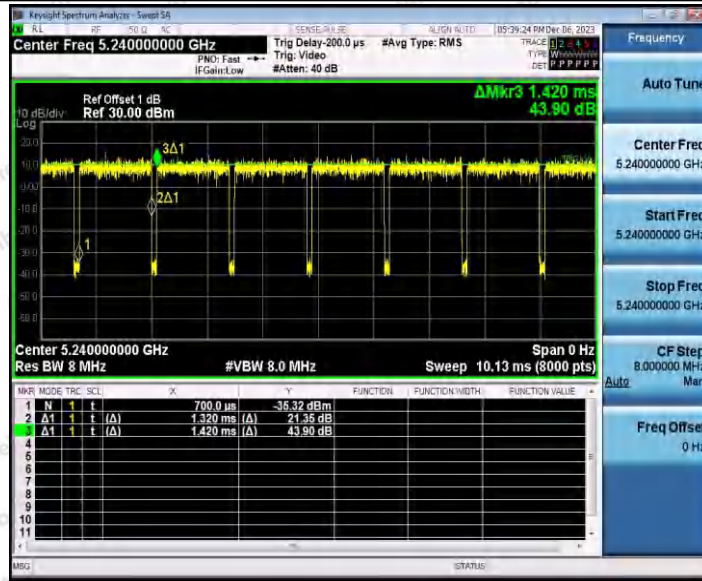
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

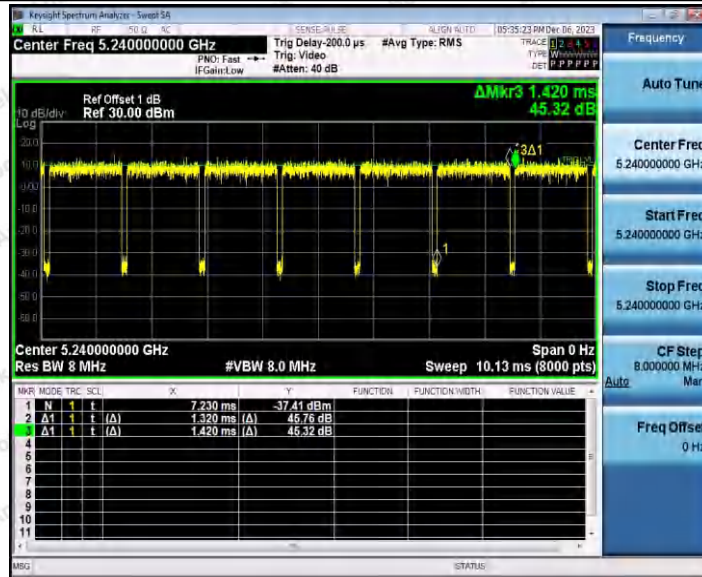
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11AC20SISO_Ant1_5240



11AC20SISO_Ant2_5240



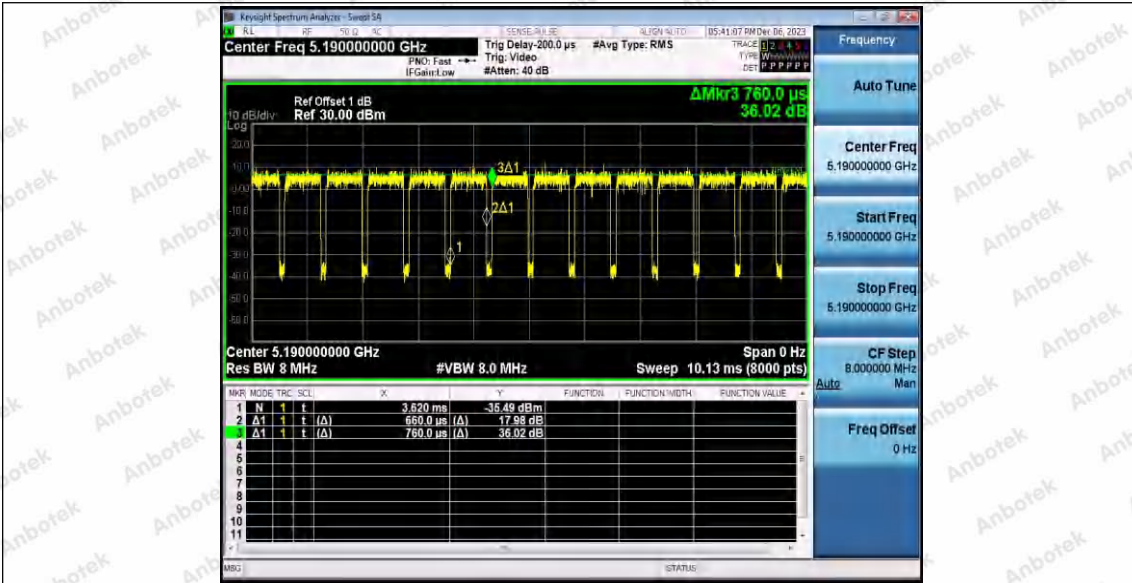
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Shenzhen Anbotek Compliance Laboratory Limited

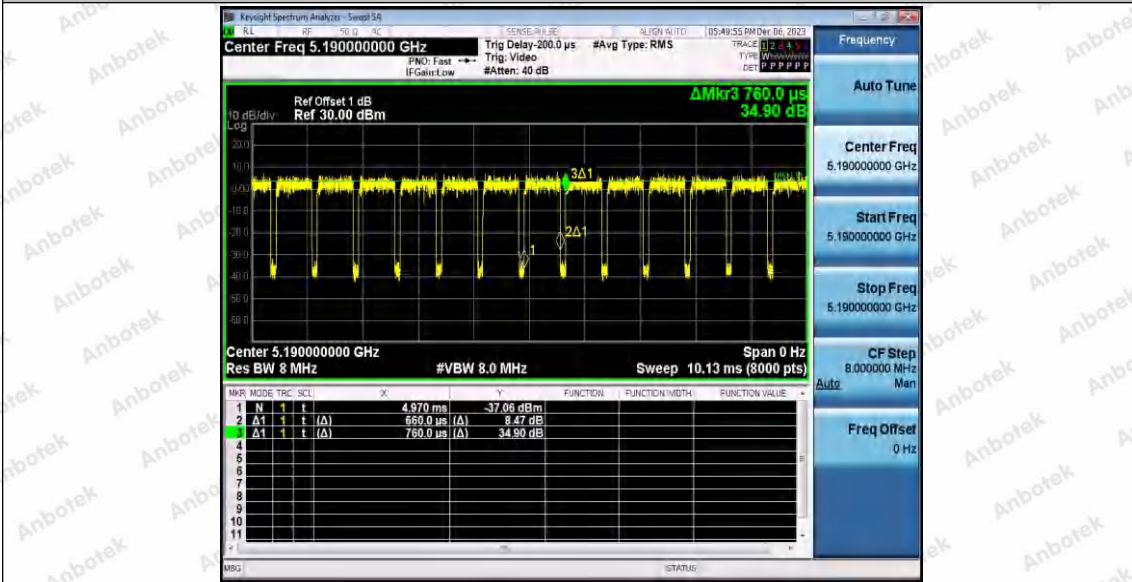
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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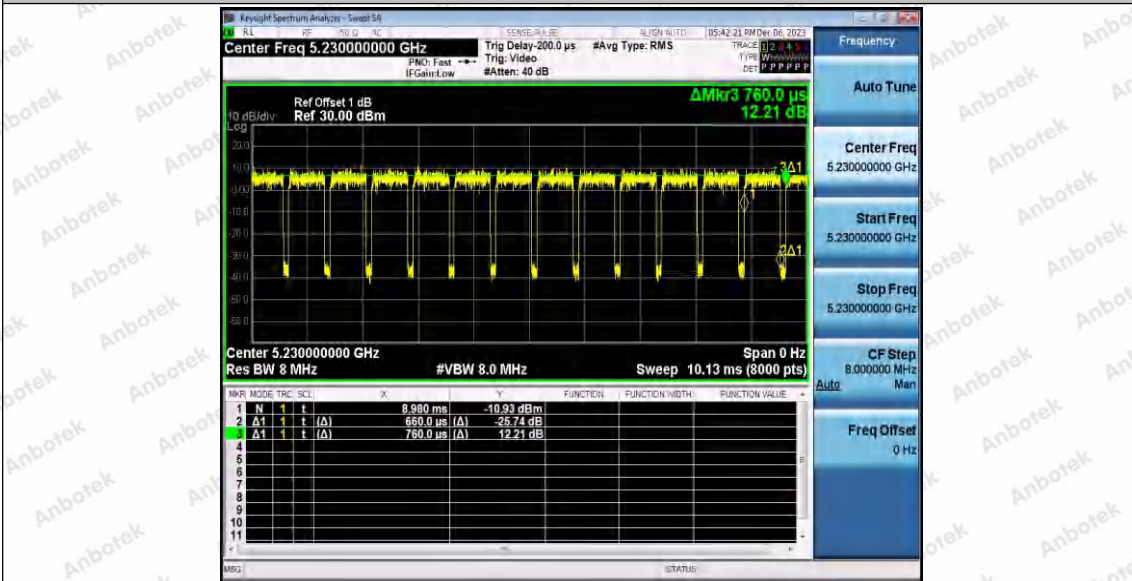




11AC40SISO_Ant2_5190



11AC40SISO_Ant1_5230



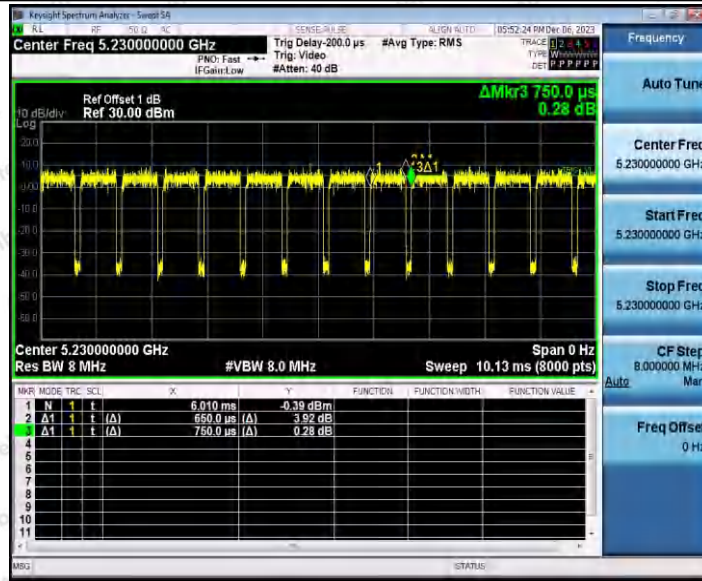
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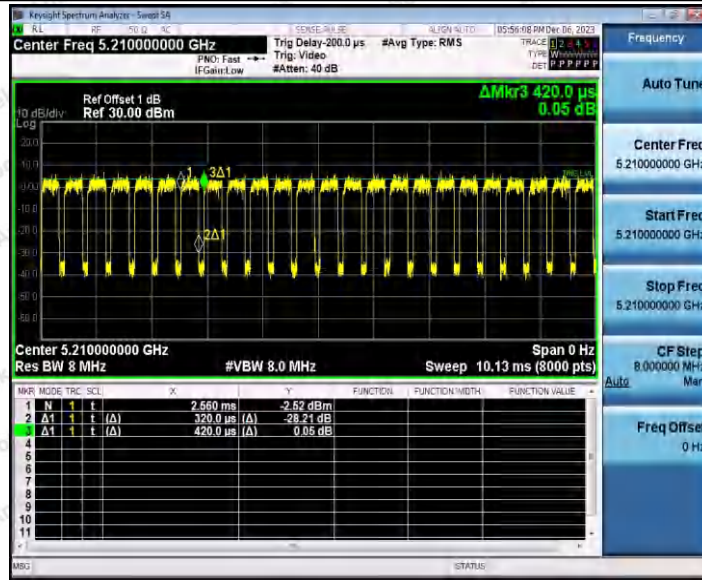
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11AC40SISO_Ant2_5230



11AC80SISO_Ant1_5210



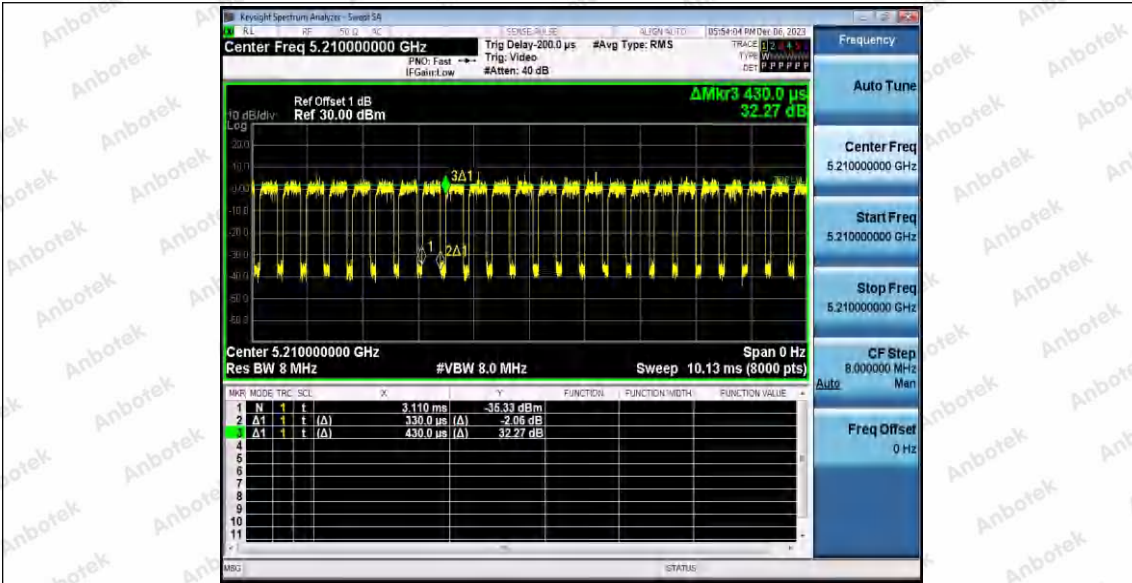
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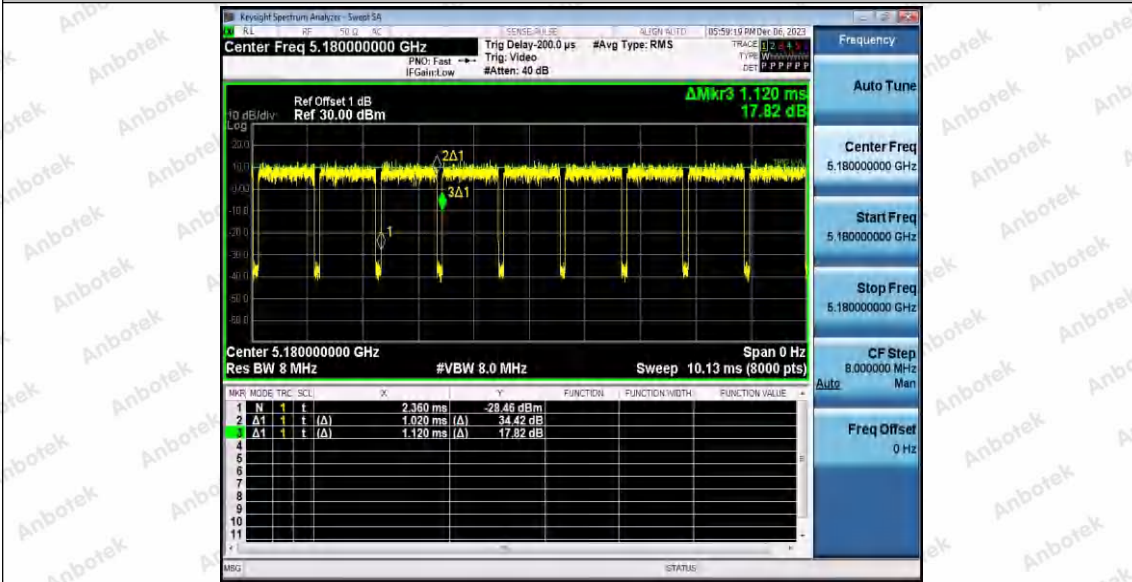
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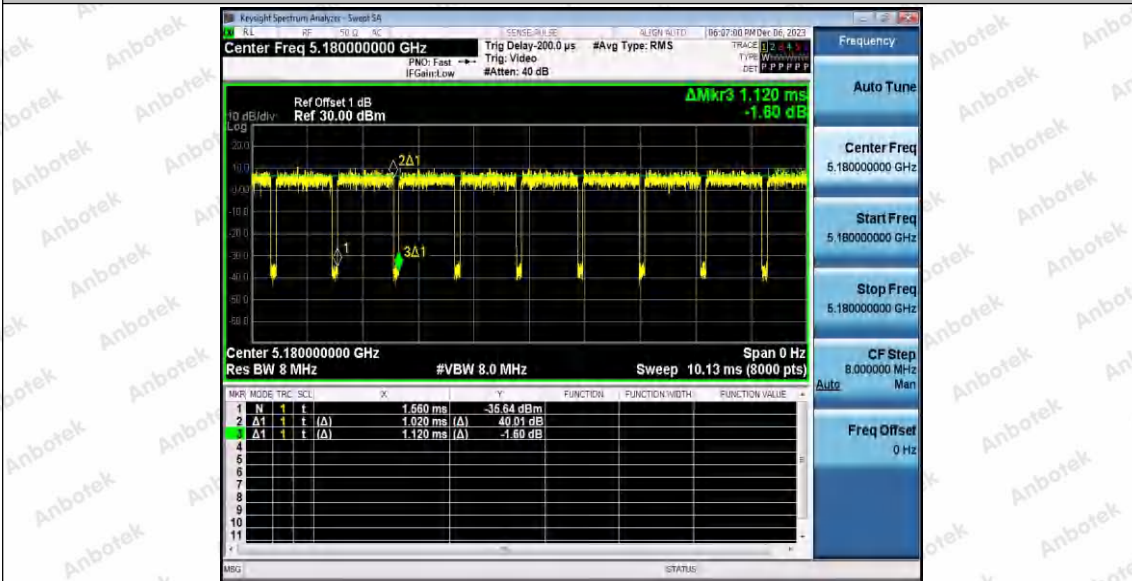




11AX20SISO_Ant1_5180



11AX20SISO_Ant2_5180



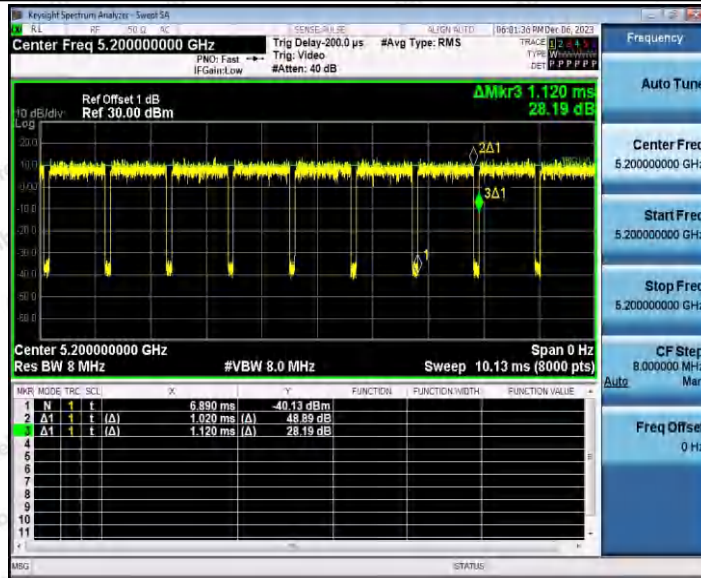
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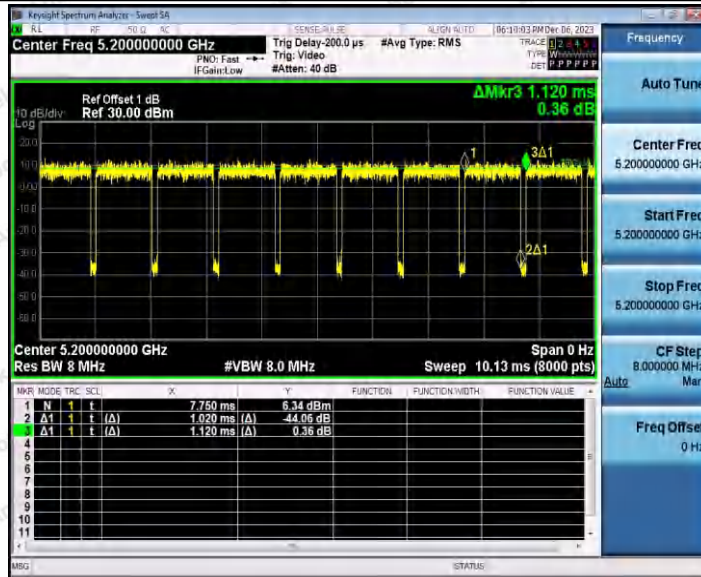
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11AX20SISO_Ant1_5200



11AX20SISO_Ant2_5200



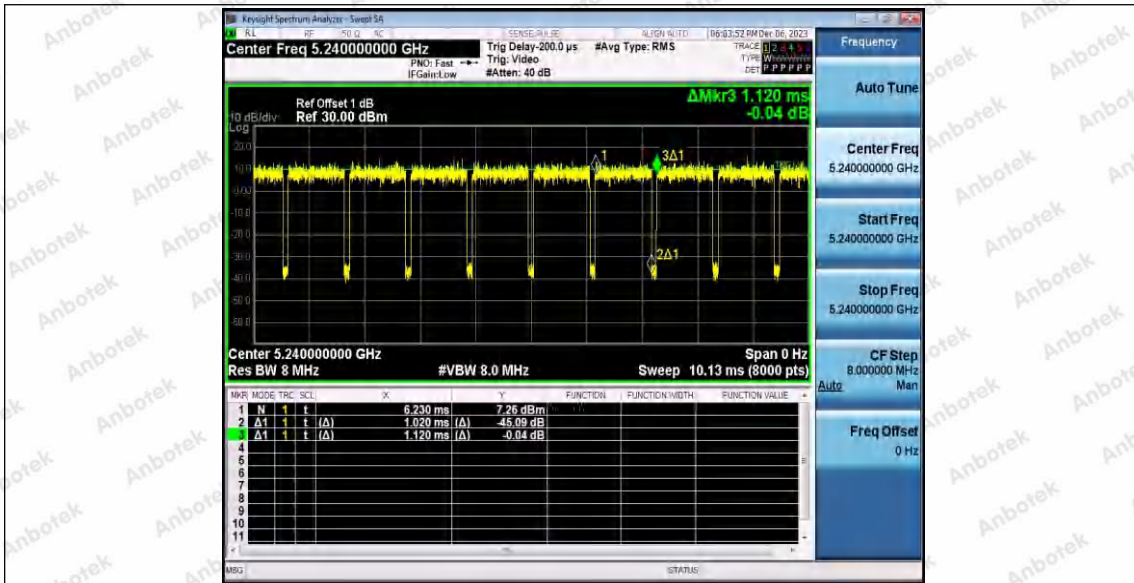
11AX20SISO_Ant1_5240

Shenzhen Anbotek Compliance Laboratory Limited

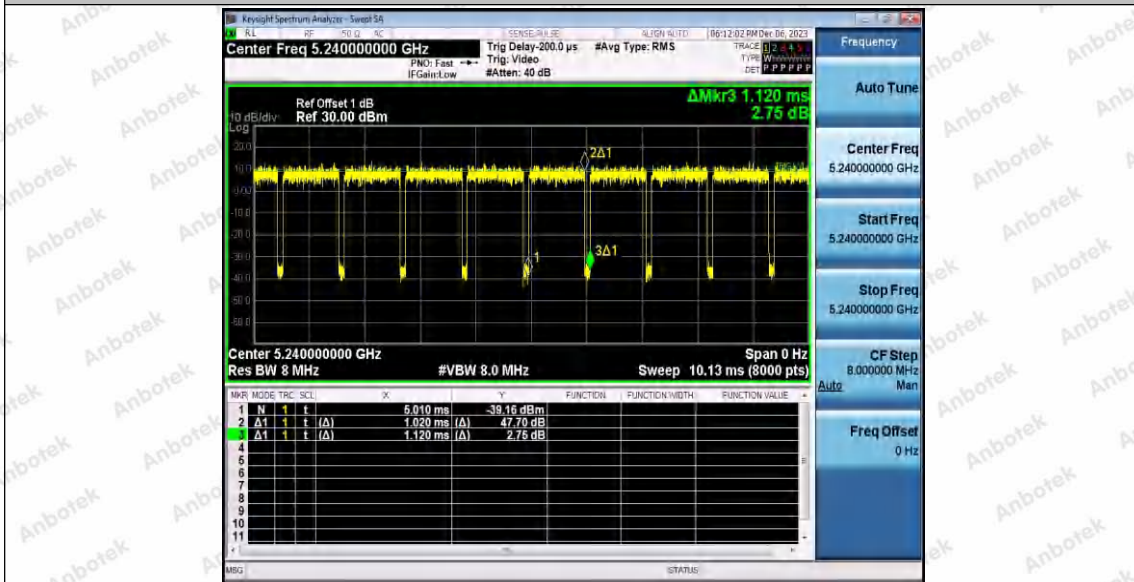
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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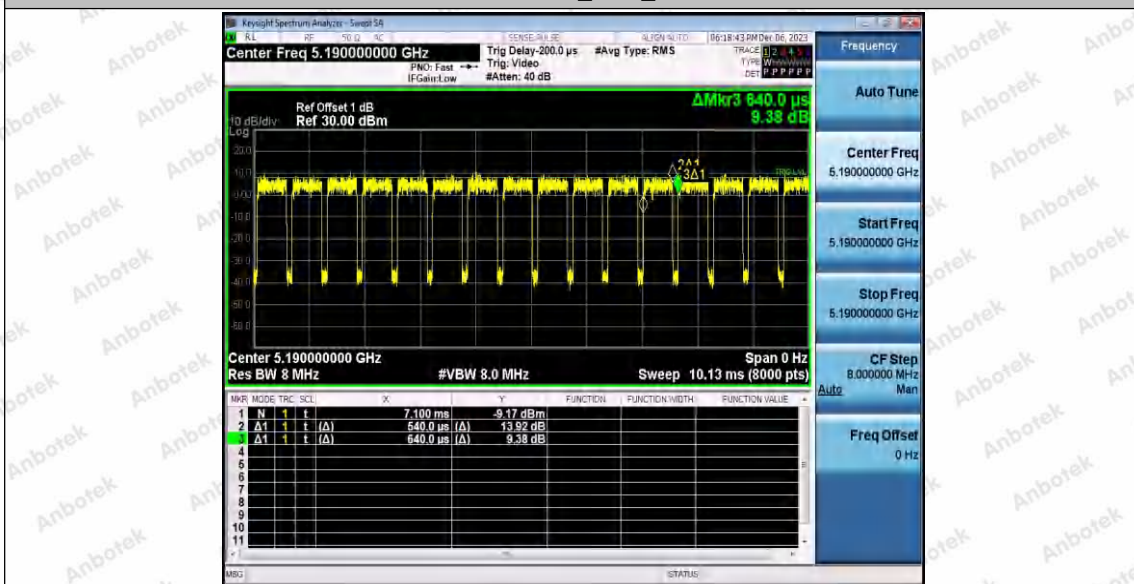




11AX20SISO_Ant2_5240



11AX40SISO_Ant1_5190



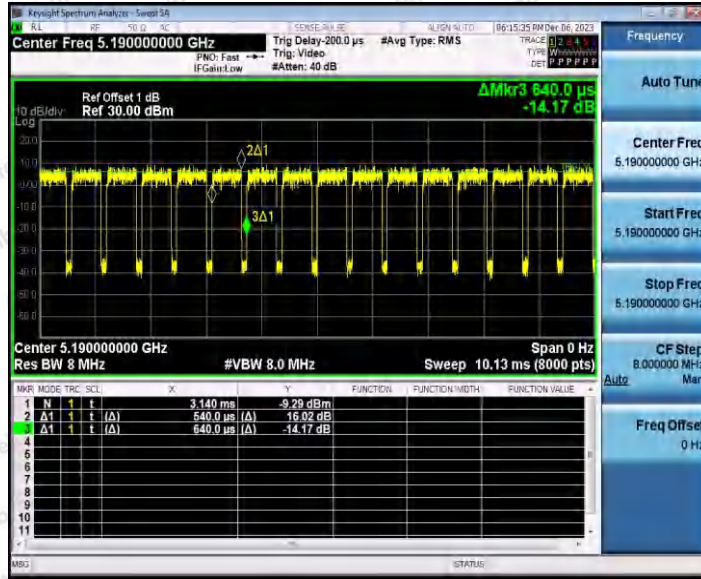
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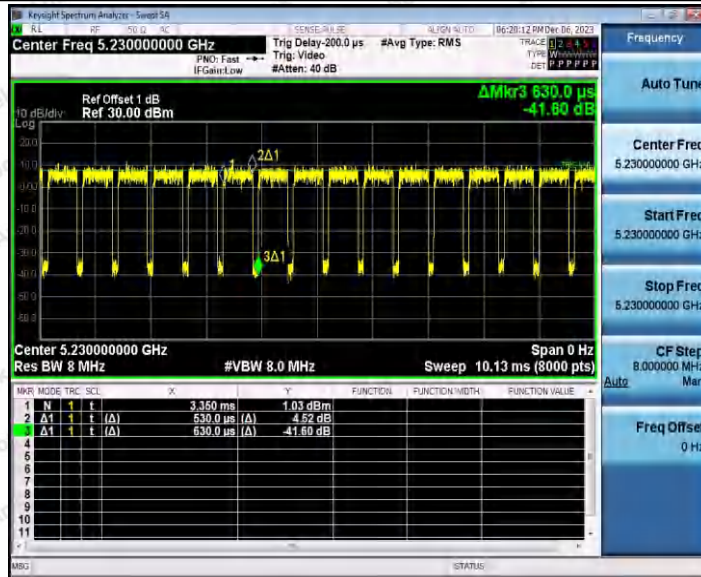
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11AX40SISO_Ant2_5190



11AX40SISO_Ant1_5230



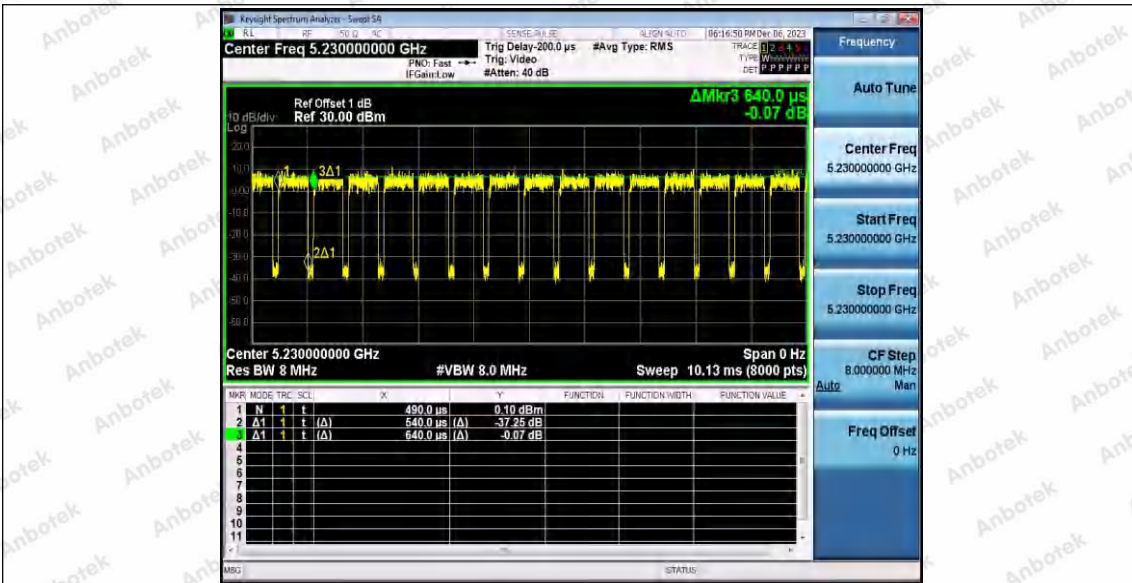
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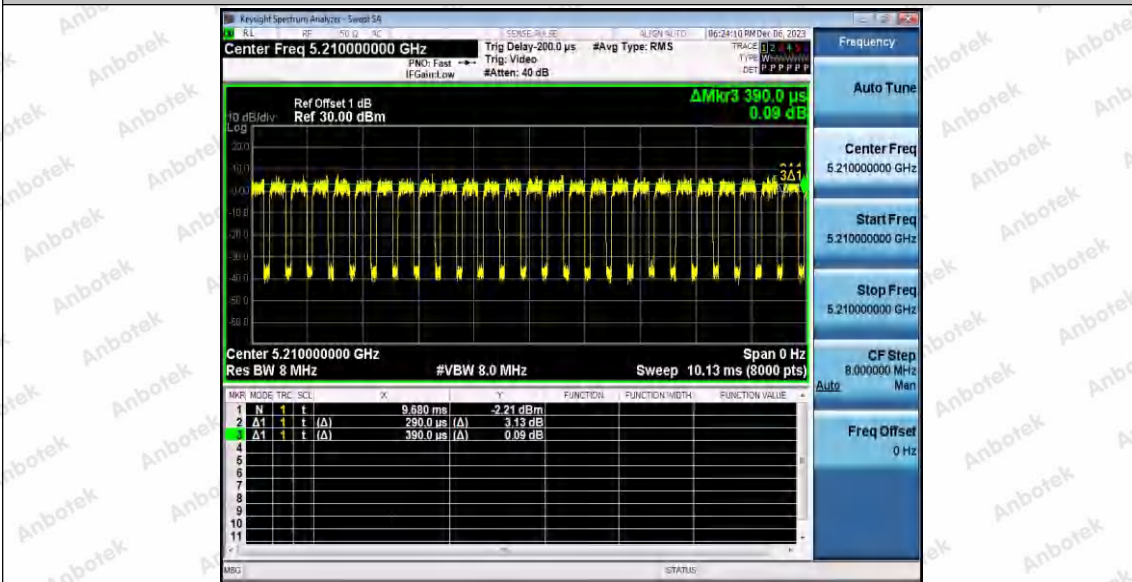
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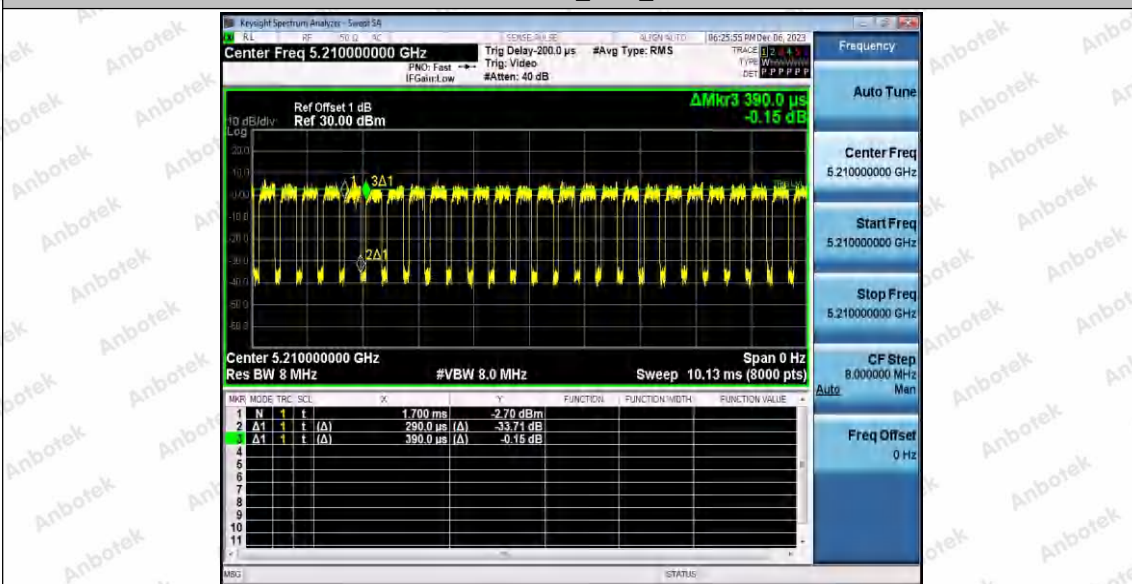




11AX80SISO_Ant1_5210



11AX80SISO_Ant2_5210



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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	---	11.61	93.29	0.30	11.91	≤23.98
	Ant2	5180	---	11.22	93.96	0.27	11.49	≤23.98
	Ant1	5200	---	12.01	93.29	0.30	12.31	≤23.98
	Ant2	5200	---	11.13	93.29	0.30	11.43	≤23.98
	Ant1	5240	---	11.75	93.33	0.30	12.05	≤23.98
	Ant2	5240	---	10.88	93.29	0.30	11.18	≤23.98
11N20 SISO	Ant1	5180	---	11.19	93.57	0.29	11.48	≤23.98
	Ant2	5180	---	10.92	92.86	0.32	11.24	≤23.98
	Ant1	5200	---	11.40	92.86	0.32	11.72	≤23.98
	Ant2	5200	---	11.08	93.57	0.29	11.37	≤23.98
	Ant1	5240	---	11.50	92.91	0.32	11.82	≤23.98
	Ant2	5240	---	10.81	92.86	0.32	11.13	≤23.98
11N40 SISO	Ant1	5190	---	12.32	56.52	2.48	14.80	≤23.98
	Ant2	5190	---	9.79	56.52	2.48	12.27	≤23.98
	Ant1	5230	---	12.70	56.52	2.48	15.18	≤23.98
	Ant2	5230	---	11.70	56.52	2.48	14.18	≤23.98
11AC2 OSISO	Ant1	5180	---	10.63	92.96	0.32	10.95	≤23.98
	Ant2	5180	---	10.53	92.91	0.32	10.85	≤23.98
	Ant1	5200	---	11.43	92.96	0.32	11.75	≤23.98
	Ant2	5200	---	10.76	92.96	0.32	11.08	≤23.98
	Ant1	5240	---	11.50	92.96	0.32	11.82	≤23.98
	Ant2	5240	---	10.90	92.96	0.32	11.22	≤23.98
11AC4 OSISO	Ant1	5190	---	11.71	86.84	0.61	12.32	≤23.98
	Ant2	5190	---	9.79	86.84	0.61	10.40	≤23.98
	Ant1	5230	---	12.28	86.84	0.61	12.89	≤23.98
	Ant2	5230	---	10.95	86.67	0.62	11.57	≤23.98
11AC8 OSISO	Ant1	5210	---	11.67	76.19	1.18	12.85	≤23.98
	Ant2	5210	---	11.05	76.74	1.15	12.20	≤23.98
11AX2 OSISO	Ant1	5180	---	11.55	91.07	0.41	11.96	≤23.98
	Ant2	5180	---	10.41	91.07	0.41	10.82	≤23.98
	Ant1	5200	---	11.67	91.07	0.41	12.08	≤23.98
	Ant2	5200	---	11.10	91.07	0.41	11.51	≤23.98
	Ant1	5240	---	11.93	91.07	0.41	12.34	≤23.98
	Ant2	5240	---	11.26	91.07	0.41	11.67	≤23.98
11AX4	Ant1	5190	---	12.65	84.38	0.74	13.39	≤23.98

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0SISO	Ant2	5190	---	12.10	84.38	0.74	12.84	≤23.98
	Ant1	5230	---	13.31	84.13	0.75	14.06	≤23.98
	Ant2	5230	---	12.27	84.38	0.74	13.01	≤23.98
11AX8	Ant1	5210	---	13.15	74.36	1.29	14.44	≤23.98
0SISO	Ant2	5210	---	12.25	74.36	1.29	13.54	≤23.98

Note: The Duty Cycle Factor is compensated in the graph.

MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Total [dBm]	Limit [dBm]	Verdict
11N20MIMO	Ant1	5180	11.48	14.37	≤23.98	PASS
	Ant2	5180	11.24			
	Ant1	5200	11.72	14.56	≤23.98	PASS
	Ant2	5200	11.37			
	Ant1	5240	11.82	14.50	≤23.98	PASS
	Ant2	5240	11.13			
11N40MIMO	Ant1	5190	14.80	16.73	≤23.98	PASS
	Ant2	5190	12.27			
	Ant1	5230	15.18	17.72	≤23.98	PASS
	Ant2	5230	14.18			
11AC20MIMO	Ant1	5180	10.95	13.91	≤23.98	PASS
	Ant2	5180	10.85			
	Ant1	5200	11.75	14.44	≤23.98	PASS
	Ant2	5200	11.08			
	Ant1	5240	11.82	14.54	≤23.98	PASS
	Ant2	5240	11.22			
11AC40MIMO	Ant1	5190	12.32	14.48	≤23.98	PASS
	Ant2	5190	10.40			
	Ant1	5230	12.89	15.29	≤23.98	PASS
	Ant2	5230	11.57			
11AC80MIMO	Ant1	5210	12.85	15.55	≤23.98	PASS
	Ant2	5210	12.20			
11AX20MIMO	Ant1	5180	11.96	14.44	≤23.98	PASS
	Ant2	5180	10.82			
	Ant1	5200	12.08	14.81	≤23.98	PASS
	Ant2	5200	11.51			
	Ant1	5240	12.34	15.03	≤23.98	PASS
	Ant2	5240	11.67			
11AX40MIMO	Ant1	5190	13.39	16.13	≤23.98	PASS
	Ant2	5190	12.84			
	Ant1	5230	14.06	16.58	≤23.98	PASS
	Ant2	5230	13.01			

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11AX80MIMO	Ant1	5210	14.44	17.02	≤23.98	PASS
	Ant2	5210	13.54			

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/B2}-(Directional gain-6.00).

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Test Graphs Channel Power

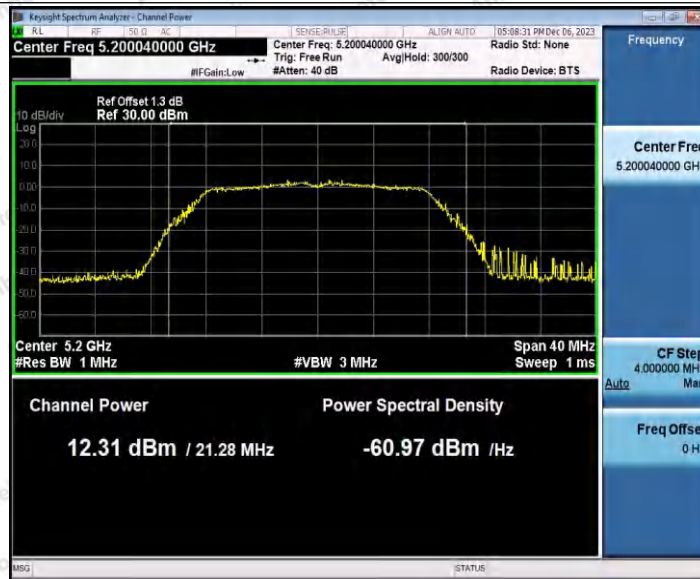


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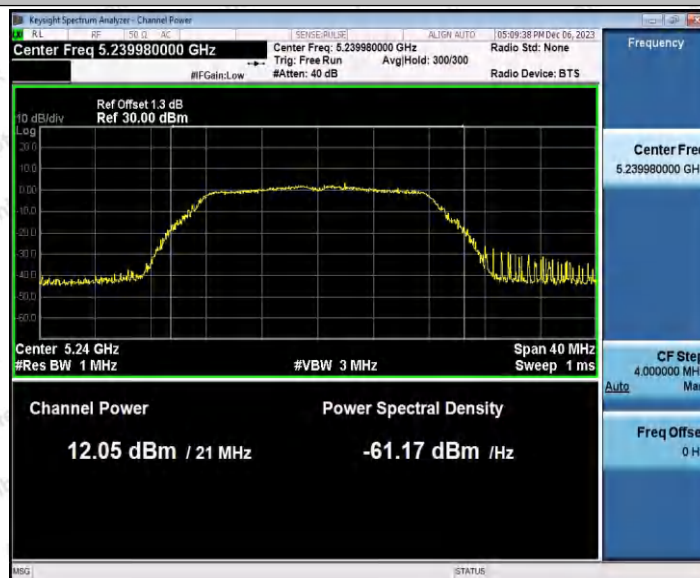




11A_Ant2_5200



11A_Ant1_5240



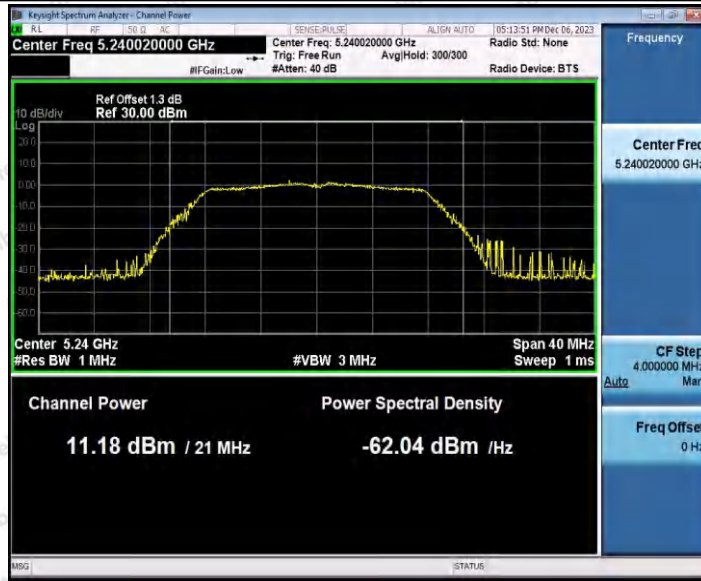
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11A_Ant2_5240



11N20SISO_Ant1_5180



11N20SISO_Ant2_5180

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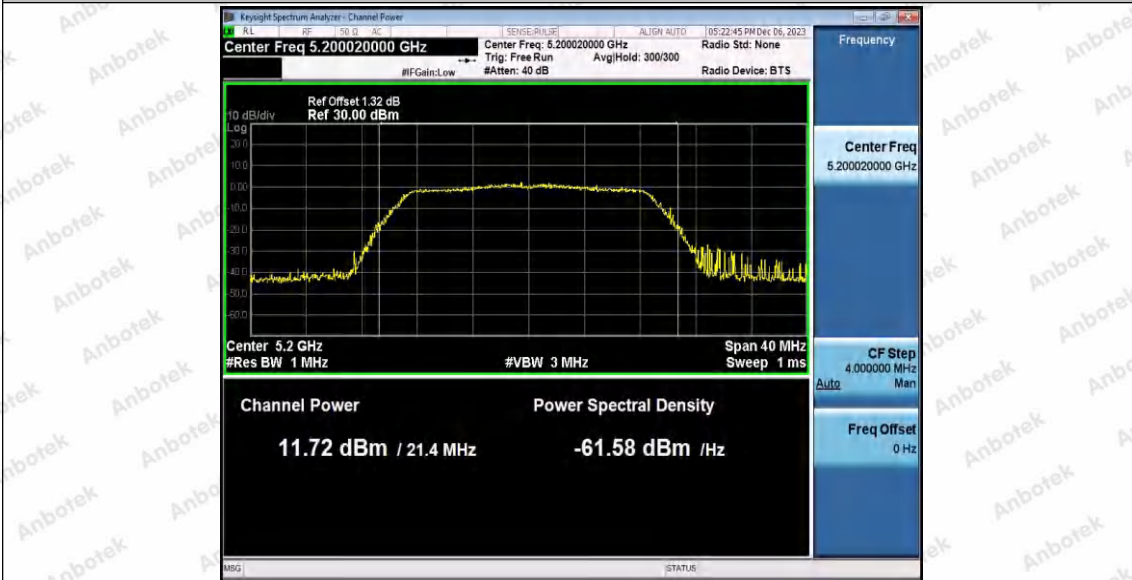
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_5200



11N20SISO_Ant2_5200



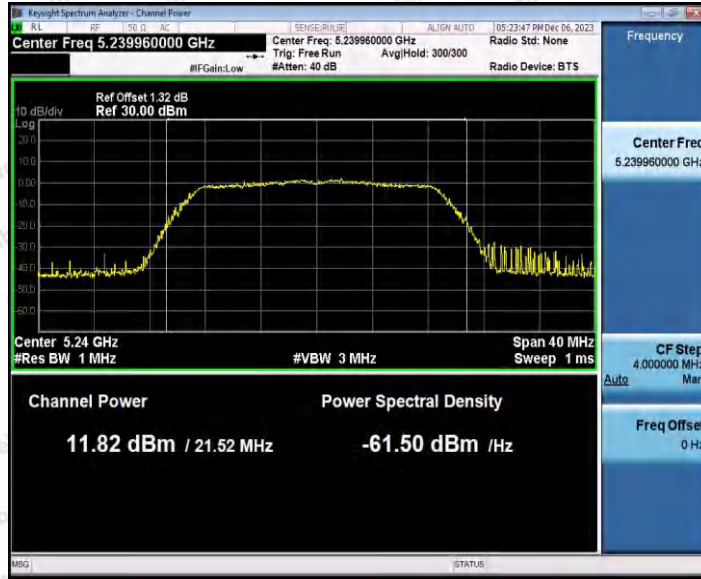
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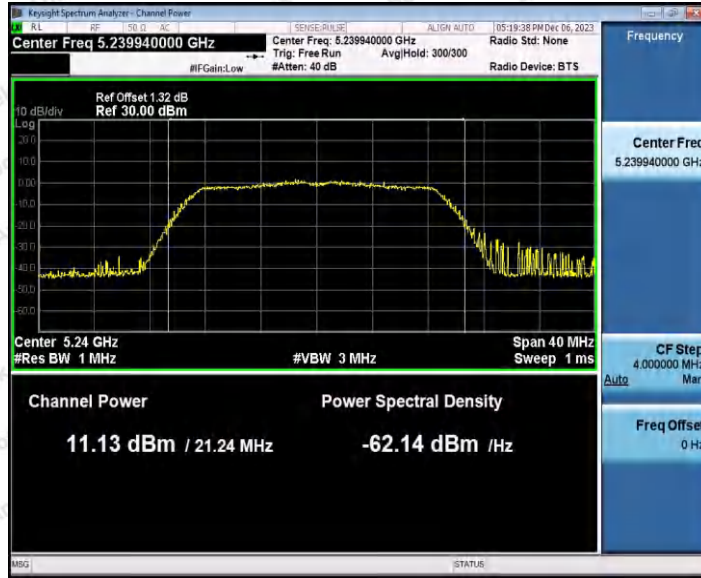
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11N20SISO_Ant1_5240



11N20SISO_Ant2_5240



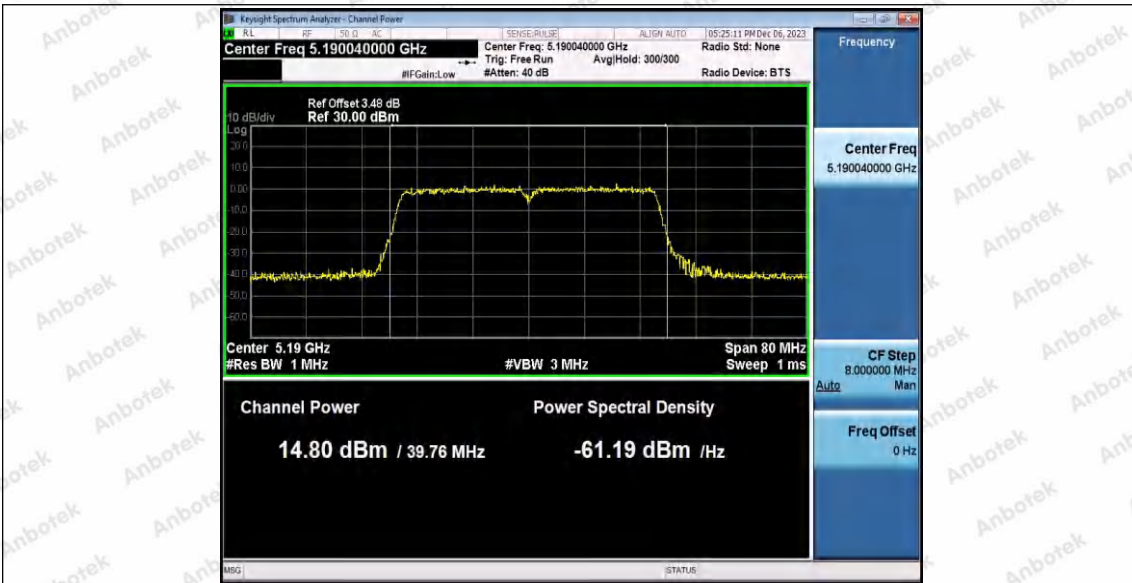
11N40SISO_Ant1_5190

Shenzhen Anbotek Compliance Laboratory Limited

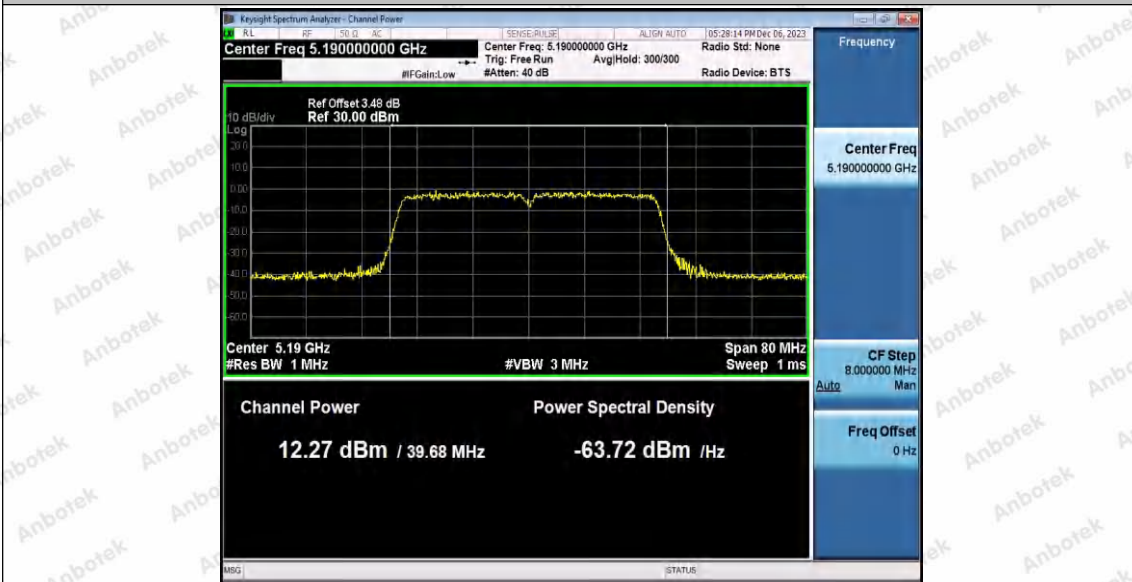
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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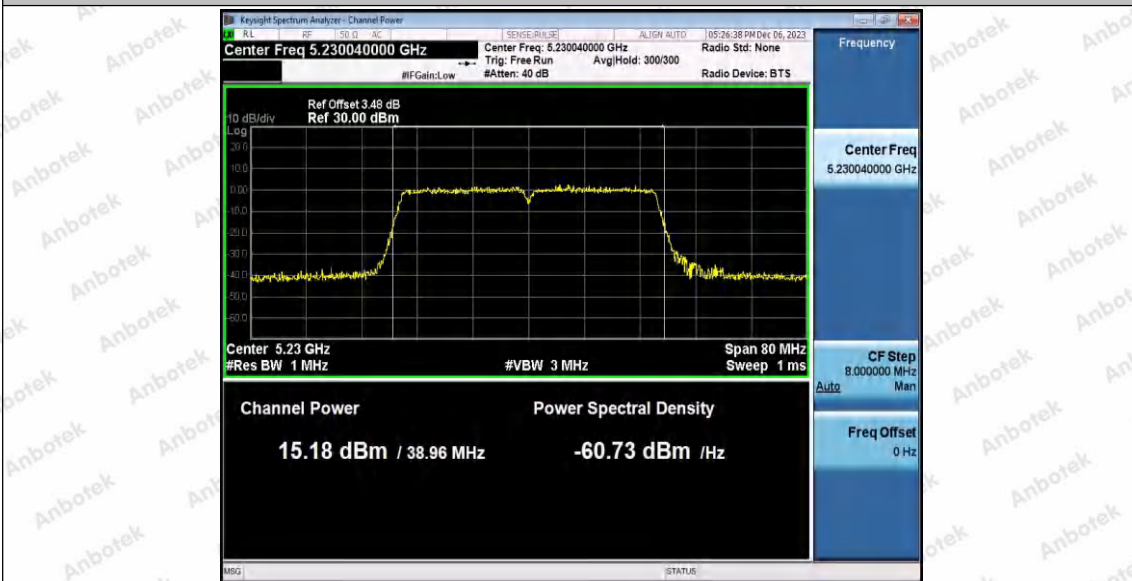




11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



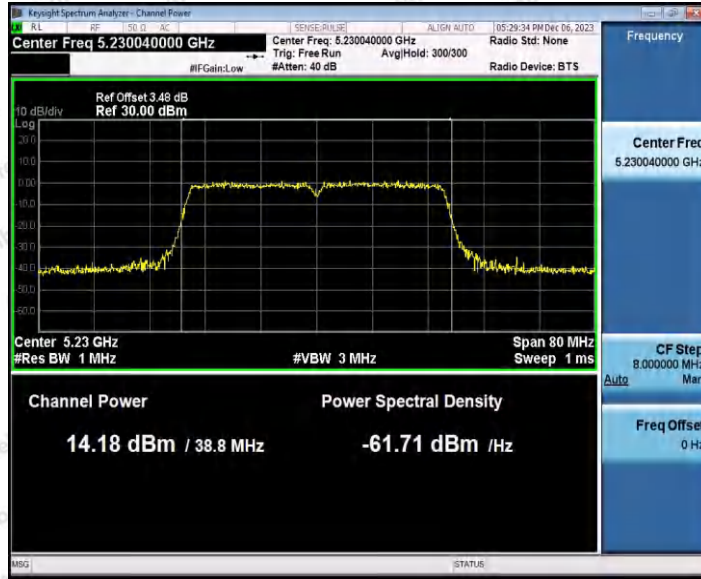
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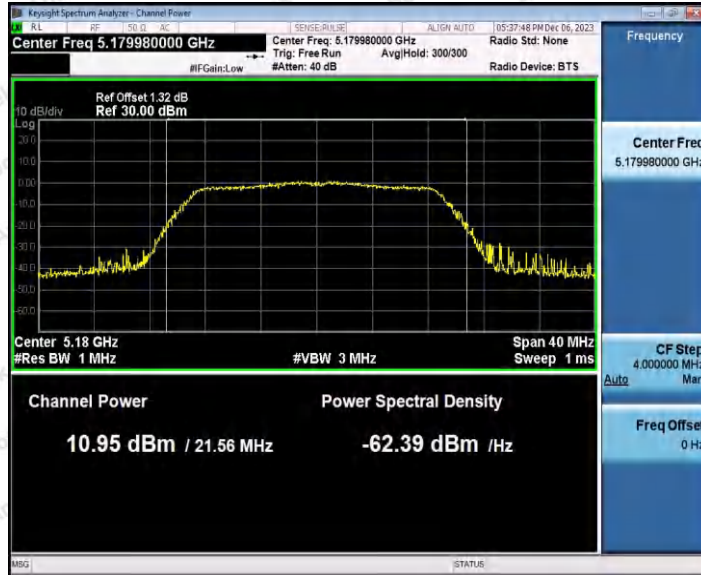
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11N40SISO_Ant2_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant2_5180

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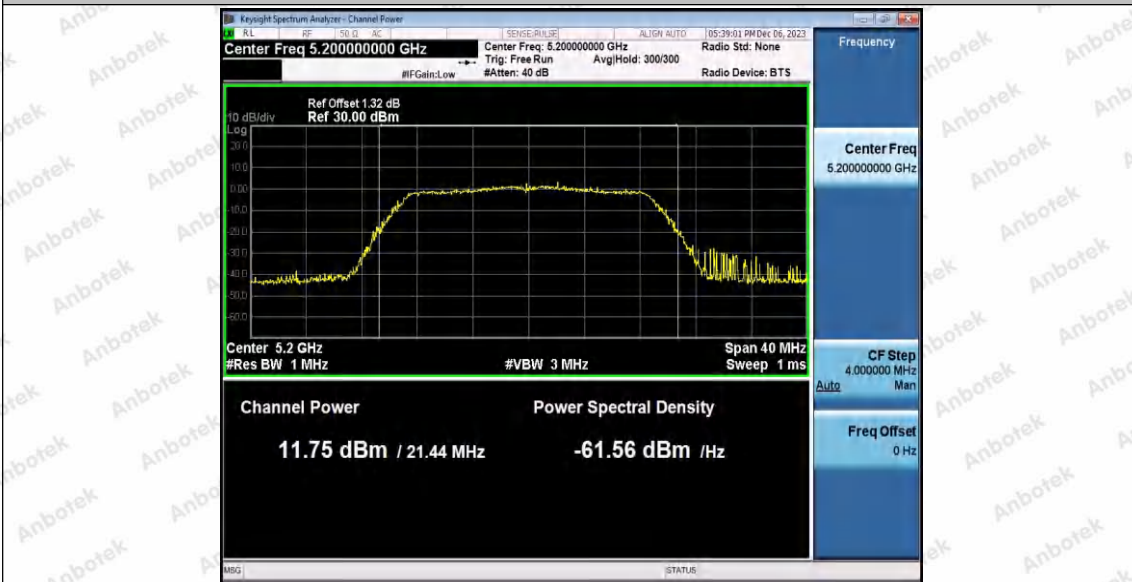
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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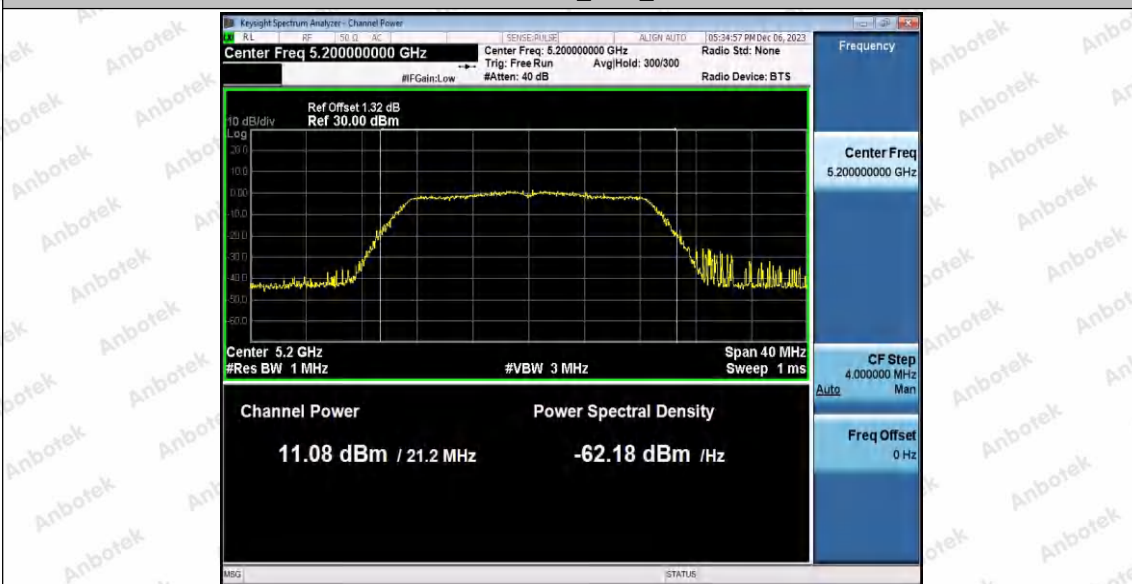




11AC20SISO_Ant1_5200



11AC20SISO_Ant2_5200



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11AC20SISO_Ant1_5240



11AC20SISO_Ant2_5240



11AC40SISO_Ant1_5190

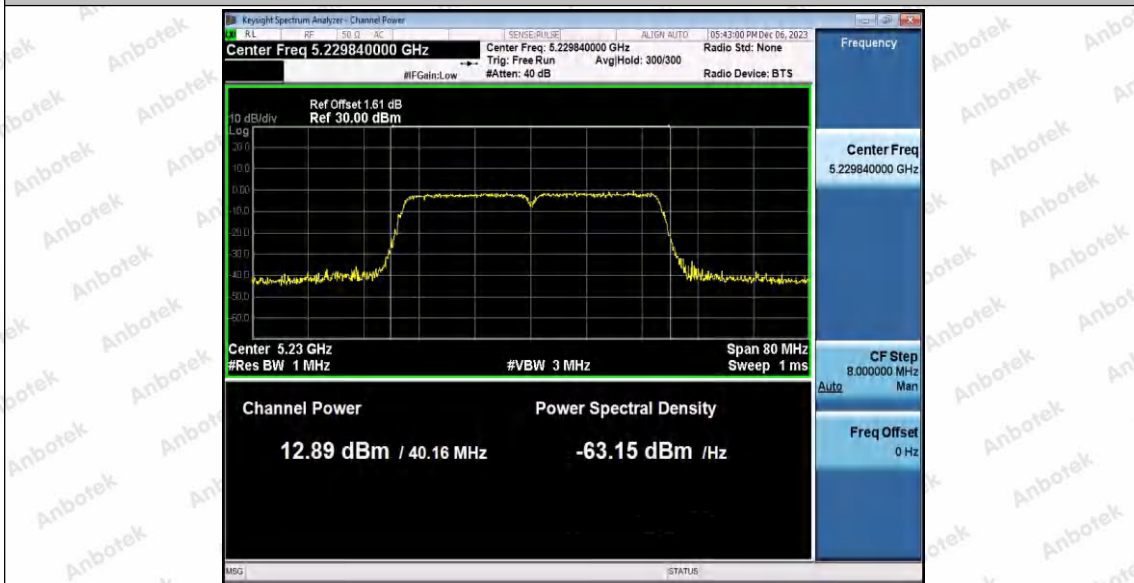
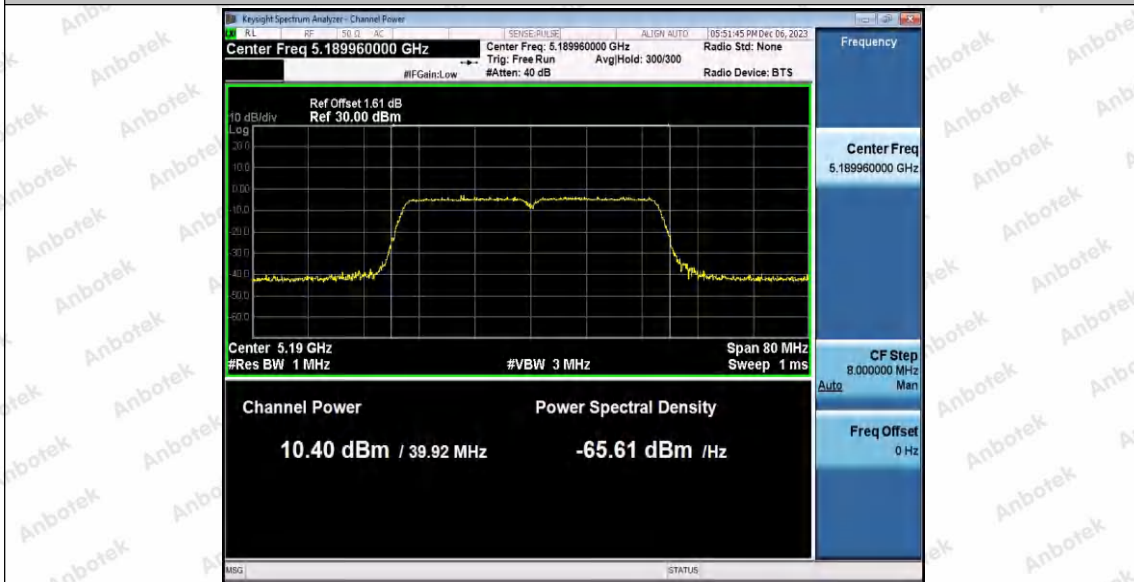
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11AC40SISO_Ant2_5230



11AC80SISO_Ant1_5210



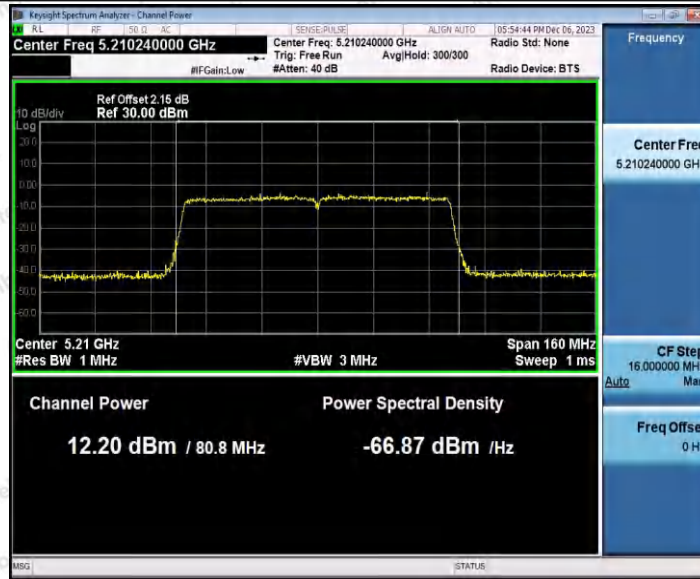
11AC80SISO_Ant2_5210

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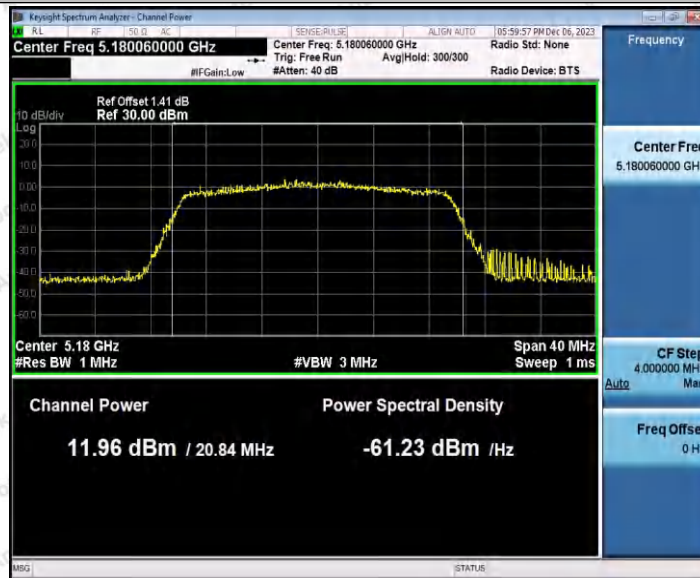
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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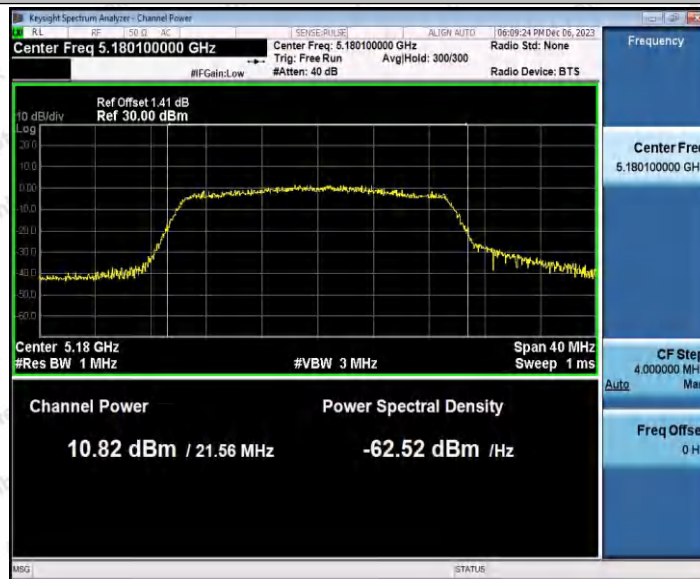




11AX20SISO_Ant1_5180



11AX20SISO_Ant2_5180



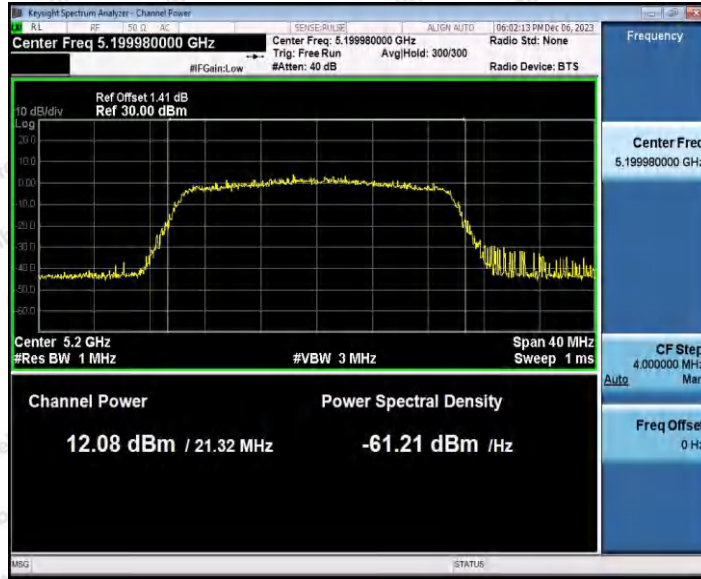
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11AX20SISO_Ant1_5200



11AX20SISO_Ant2_5200



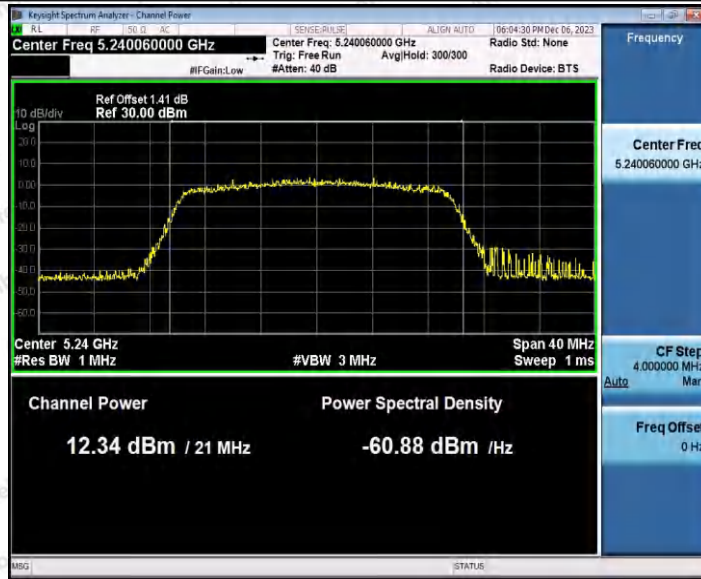
11AX20SISO_Ant1_5240

Shenzhen Anbotek Compliance Laboratory Limited

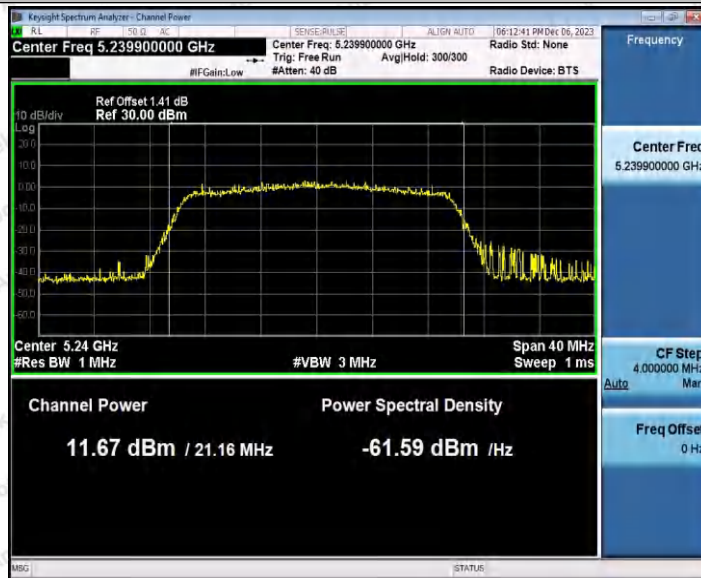
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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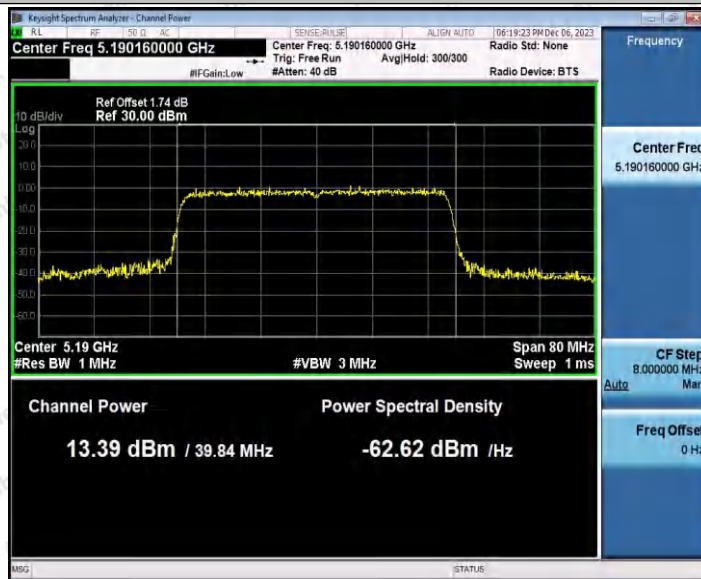




11AX20SISO_Ant2_5240



11AX40SISO_Ant1_5190



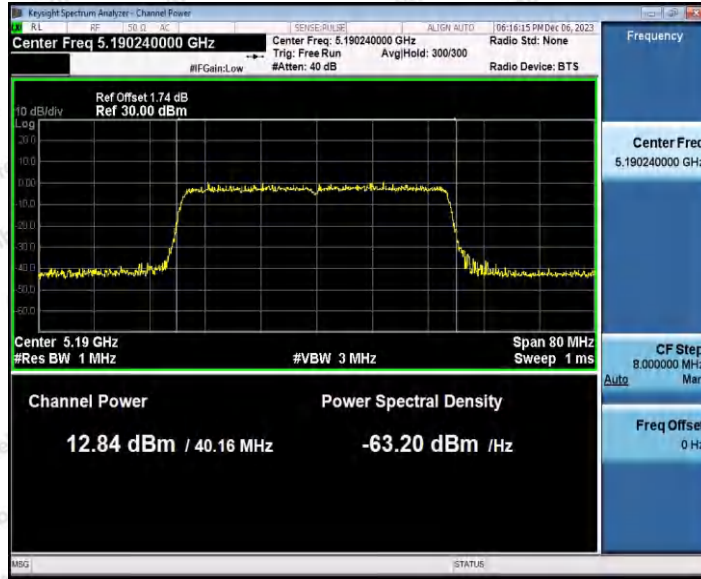
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

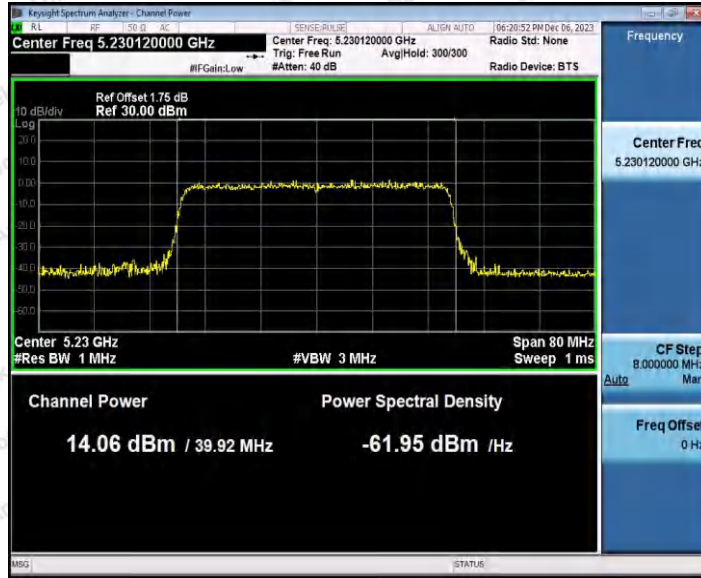
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11AX40SISO_Ant2_5190



11AX40SISO_Ant1_5230



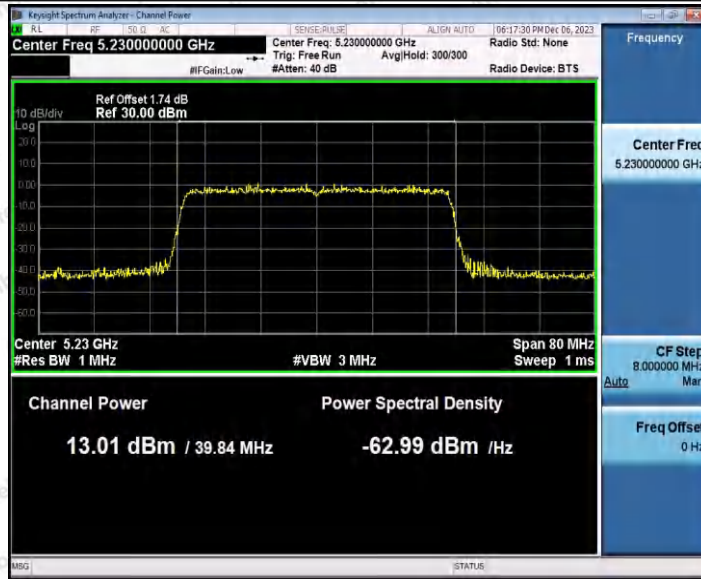
11AX40SISO_Ant2_5230

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11AX80SISO_Ant1_5210



11AX80SISO_Ant2_5210



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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	4.66	≤11.00	PASS
	Ant2	5180	4.15	≤11.00	PASS
	Ant1	5200	4.53	≤11.00	PASS
	Ant2	5200	4.06	≤11.00	PASS
	Ant1	5240	4.06	≤11.00	PASS
	Ant2	5240	3.14	≤11.00	PASS
11N20SISO	Ant1	5180	3.36	≤11.00	PASS
	Ant2	5180	4.1	≤11.00	PASS
	Ant1	5200	3.91	≤11.00	PASS
	Ant2	5200	3.87	≤11.00	PASS
	Ant1	5240	3.79	≤11.00	PASS
	Ant2	5240	3.27	≤11.00	PASS
11N40SISO	Ant1	5190	1.6	≤11.00	PASS
	Ant2	5190	-1.01	≤11.00	PASS
	Ant1	5230	1.7	≤11.00	PASS
	Ant2	5230	0.39	≤11.00	PASS
11AC20SISO	Ant1	5180	2.99	≤11.00	PASS
	Ant2	5180	2.73	≤11.00	PASS
	Ant1	5200	3.58	≤11.00	PASS
	Ant2	5200	3.08	≤11.00	PASS
	Ant1	5240	4.21	≤11.00	PASS
	Ant2	5240	3.64	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.08	≤11.00	PASS
	Ant2	5190	-1.75	≤11.00	PASS
	Ant1	5230	0.93	≤11.00	PASS
	Ant2	5230	-0.16	≤11.00	PASS
11AC80SISO	Ant1	5210	-2.66	≤11.00	PASS
	Ant2	5210	-3.55	≤11.00	PASS
11AX20SISO	Ant1	5180	4.41	≤11.00	PASS
	Ant2	5180	1.56	≤11.00	PASS
	Ant1	5200	4.75	≤11.00	PASS
	Ant2	5200	3.69	≤11.00	PASS
	Ant1	5240	4.75	≤11.00	PASS
	Ant2	5240	3.85	≤11.00	PASS
11AX40SISO	Ant1	5190	1.37	≤11.00	PASS
	Ant2	5190	2.54	≤11.00	PASS
	Ant1	5230	3.22	≤11.00	PASS
	Ant2	5230	1.89	≤11.00	PASS

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11AX80SISO	Ant1	5210	0.37	≤11.00	PASS
	Ant2	5210	-0.52	≤11.00	PASS

Note: 1.The Duty Cycle Factor and RBW Factor is compensated in the graph.

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MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Total [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	Ant1	5180	3.36	6.76	≤11.00	PASS
	Ant2	5180	4.10			
	Ant1	5200	3.91	6.90	≤11.00	PASS
	Ant2	5200	3.87			
	Ant1	5240	3.79	6.55	≤11.00	PASS
	Ant2	5240	3.27			
11N40MIMO	Ant1	5190	1.6	3.50	≤11.00	PASS
	Ant2	5190	-1.01			
	Ant1	5230	1.70	4.10	≤11.00	PASS
	Ant2	5230	0.39			
11AC20MIMO	Ant1	5180	2.99	5.87	≤11.00	PASS
	Ant2	5180	2.73			
	Ant1	5200	3.58	6.35	≤11.00	PASS
	Ant2	5200	3.08			
	Ant1	5240	4.21	6.94	≤11.00	PASS
	Ant2	5240	3.64			
11AC40MIMO	Ant1	5190	-0.08	2.18	≤11.00	PASS
	Ant2	5190	-1.75			
	Ant1	5230	0.93	3.43	≤11.00	PASS
	Ant2	5230	-0.16			
11AC80MIMO	Ant1	5210	-2.66	-0.07	≤11.00	PASS
	Ant2	5210	-3.55			
11AX20MIMO	Ant1	5180	4.41	6.23	≤11.00	PASS
	Ant2	5180	1.56			
	Ant1	5200	4.75	7.26	≤11.00	PASS
	Ant2	5200	3.69			
	Ant1	5240	4.75	7.33	≤11.00	PASS
	Ant2	5240	3.85			
11AX40MIMO	Ant1	5190	1.37	5.00	≤11.00	PASS
	Ant2	5190	2.54			
	Ant1	5230	3.22	5.62	≤11.00	PASS
	Ant2	5230	1.89			
11AX80MIMO	Ant1	5210	0.37	2.96	≤11.00	PASS
	Ant2	5210	-0.52			

Note:

1. Total (dBm)=10xlog(10^{(ANT1 power(dBm)/10)} + 10^{(ANT2 power(dBm)/10)})
2. As Directional gain=10 log[(10^{G1/20} + 10^{G2/20})² /N_{ANT}] dBi,
so MIMO Limit (dBm/MHz)=Limit_{B1/B2}-(Directional gain-6.00).

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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_Ant1_5200



11N20SISO_Ant2_5200



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11N20SISO_Ant1_5240



11N20SISO_Ant2_5240



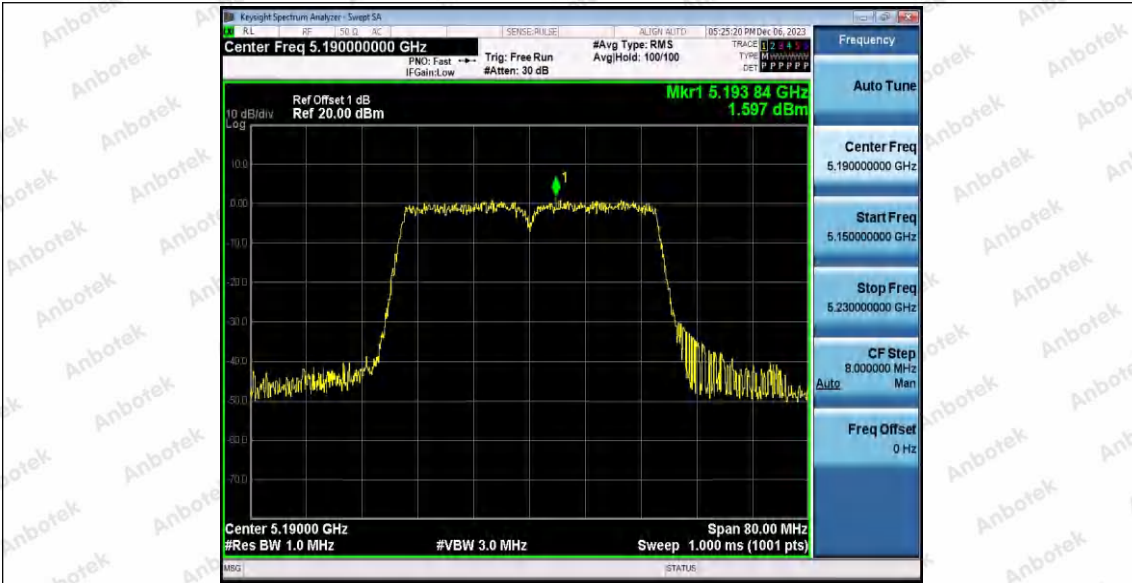
11N40SISO_Ant1_5190

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11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



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11N40SISO_Ant2_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant2_5180

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11AC20SISO_Ant1_5200



11AC20SISO_Ant2_5200



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11AC20SISO_Ant1_5240



11AC20SISO_Ant2_5240



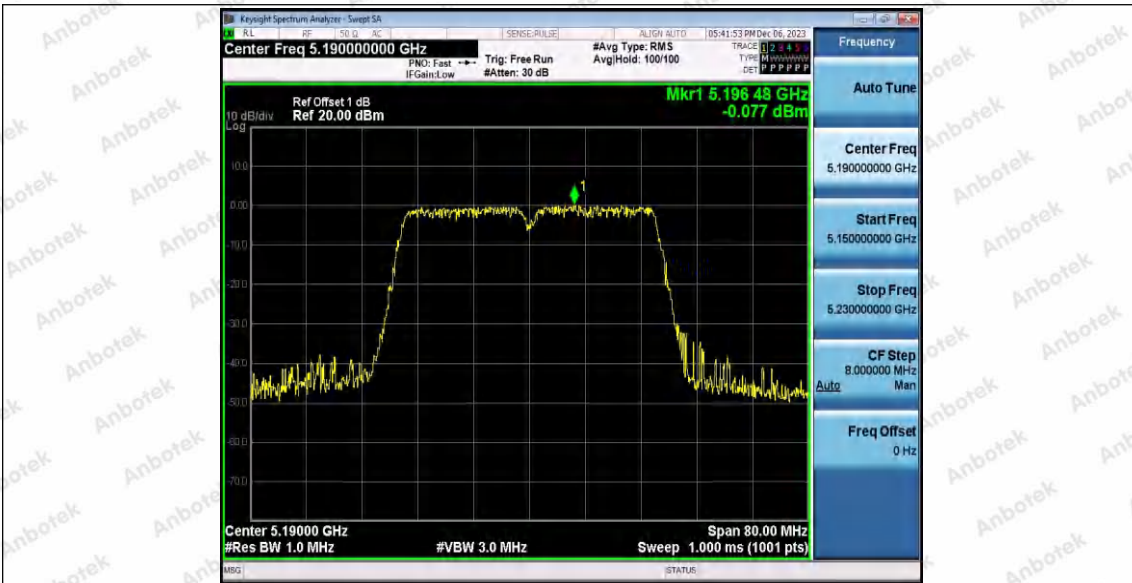
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11AC40SISO_Ant2_5190



11AC40SISO_Ant1_5230



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11AC40SISO_Ant2_5230



11AC80SISO_Ant1_5210



11AC80SISO_Ant2_5210

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11AX20SISO_Ant1_5180



11AX20SISO_Ant2_5180



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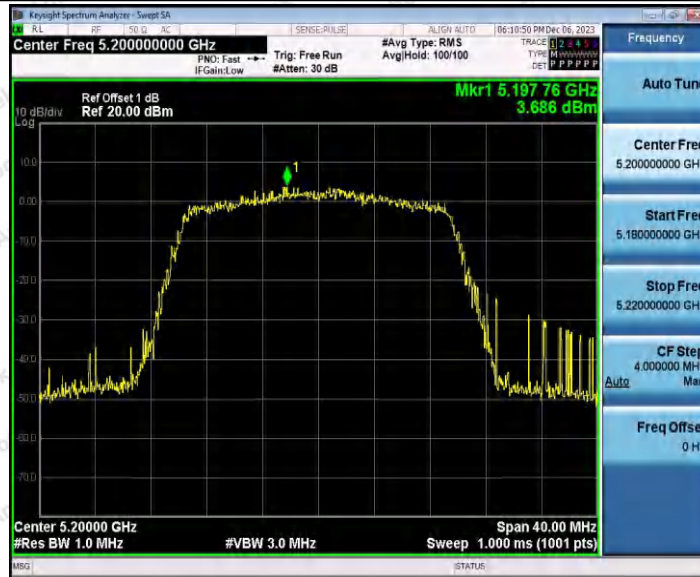
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11AX20SISO_Ant1_5200



11AX20SISO_Ant2_5200



11AX20SISO_Ant1_5240

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11AX20SISO_Ant2_5240



11AX40SISO_Ant1_5190



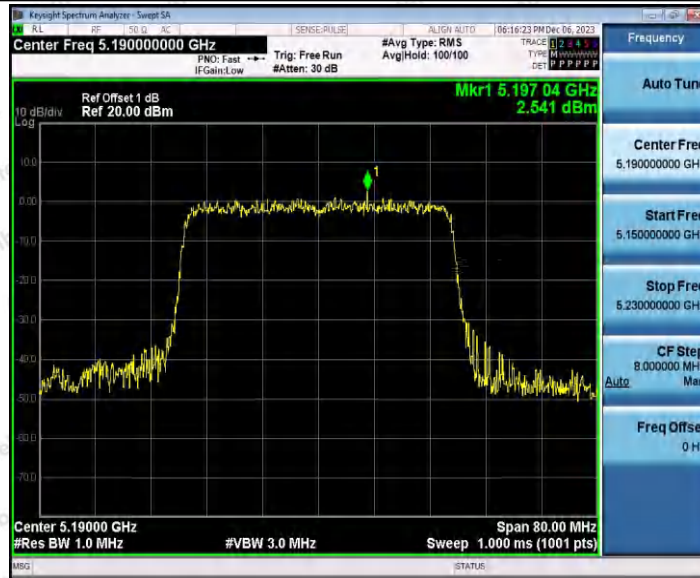
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

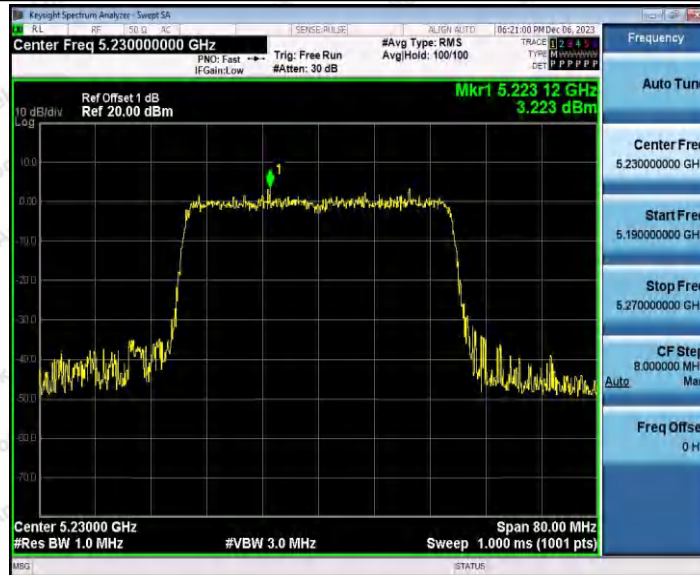
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11AX40SISO_Ant2_5190



11AX40SISO_Ant1_5230



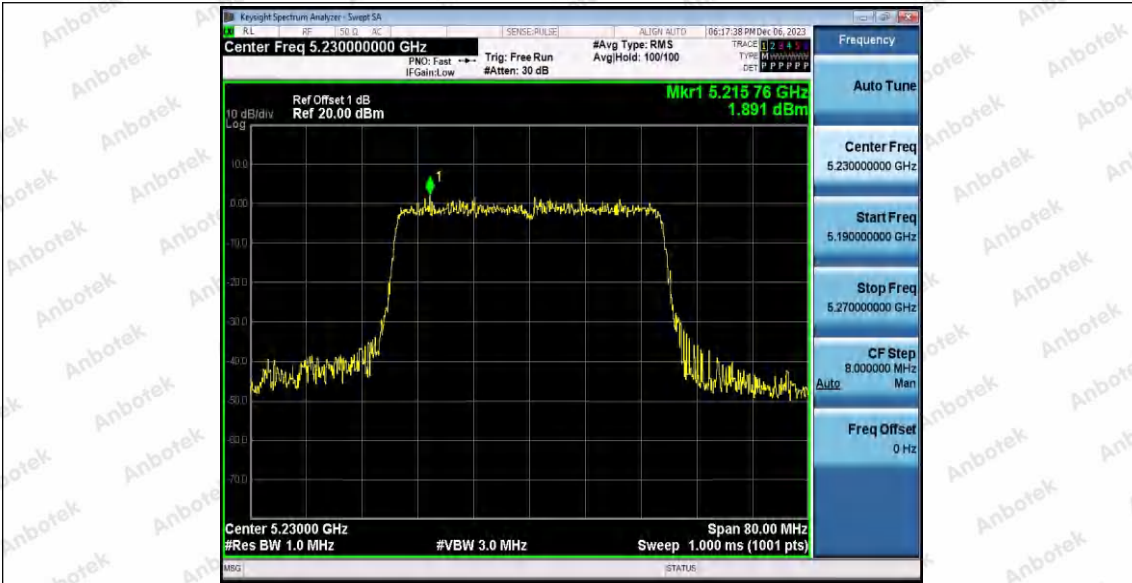
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11AX80SISO_Ant1_5210



11AX80SISO_Ant2_5210



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Appendix E: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-40.72	≤-27	PASS
	Ant2	Low	5180	-39.84	≤-27	PASS
	Ant1	High	5240	-40.58	≤-27	PASS
	Ant2	High	5240	-40.85	≤-27	PASS
11N20SISO	Ant1	Low	5180	-40.92	≤-27	PASS
	Ant2	Low	5180	-40.11	≤-27	PASS
	Ant1	High	5240	-39.88	≤-27	PASS
	Ant2	High	5240	-40.51	≤-27	PASS
11N40SISO	Ant1	Low	5190	-40.51	≤-27	PASS
	Ant2	Low	5190	-40.19	≤-27	PASS
	Ant1	High	5230	-39.81	≤-27	PASS
	Ant2	High	5230	-40.31	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-40.05	≤-27	PASS
	Ant2	Low	5180	-40.85	≤-27	PASS
	Ant1	High	5240	-39.91	≤-27	PASS
	Ant2	High	5240	-41.38	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-38.91	≤-27	PASS
	Ant2	Low	5190	-40.34	≤-27	PASS
	Ant1	High	5230	-40.25	≤-27	PASS
	Ant2	High	5230	-39.46	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-37.91	≤-27	PASS
	Ant2	Low	5210	-40.62	≤-27	PASS
	Ant1	High	5210	-39.76	≤-27	PASS
	Ant2	High	5210	-40.25	≤-27	PASS
11AX20SISO	Ant1	Low	5180	-39.73	≤-27	PASS
	Ant2	Low	5180	-39.99	≤-27	PASS
	Ant1	High	5240	-40.45	≤-27	PASS
	Ant2	High	5240	-40.26	≤-27	PASS
11AX40SISO	Ant1	Low	5190	-37.8	≤-27	PASS
	Ant2	Low	5190	-39.64	≤-27	PASS
	Ant1	High	5230	-39.63	≤-27	PASS
	Ant2	High	5230	-39.67	≤-27	PASS
11AX80SISO	Ant1	Low	5210	-37.13	≤-27	PASS
	Ant2	Low	5210	-39.86	≤-27	PASS
	Ant1	High	5210	-39.76	≤-27	PASS

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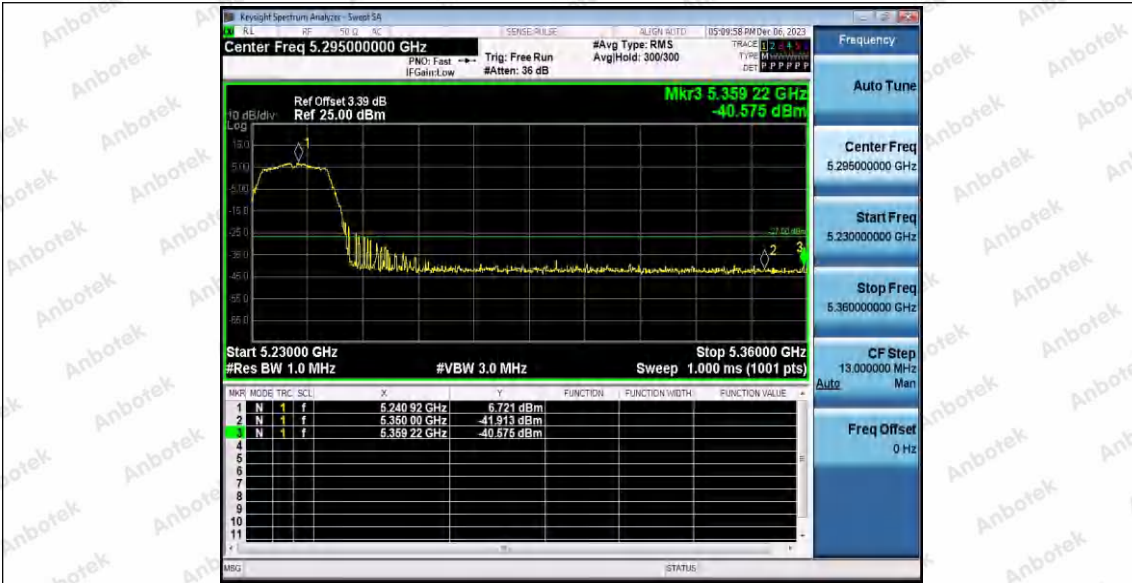
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	Ant2	High	5210	-39.5	≤-27	PASS
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Test Graphs B1





11A_Ant2_High_5240



11N20SISO_Ant1_Low_5180



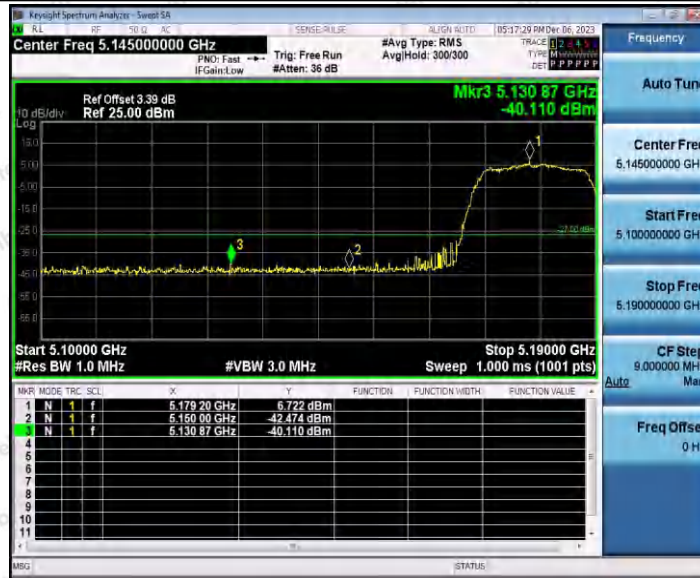
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11N20SISO_Ant2_Low_5180



11N20SISO_Ant1_High_5240



11N20SISO_Ant2_High_5240

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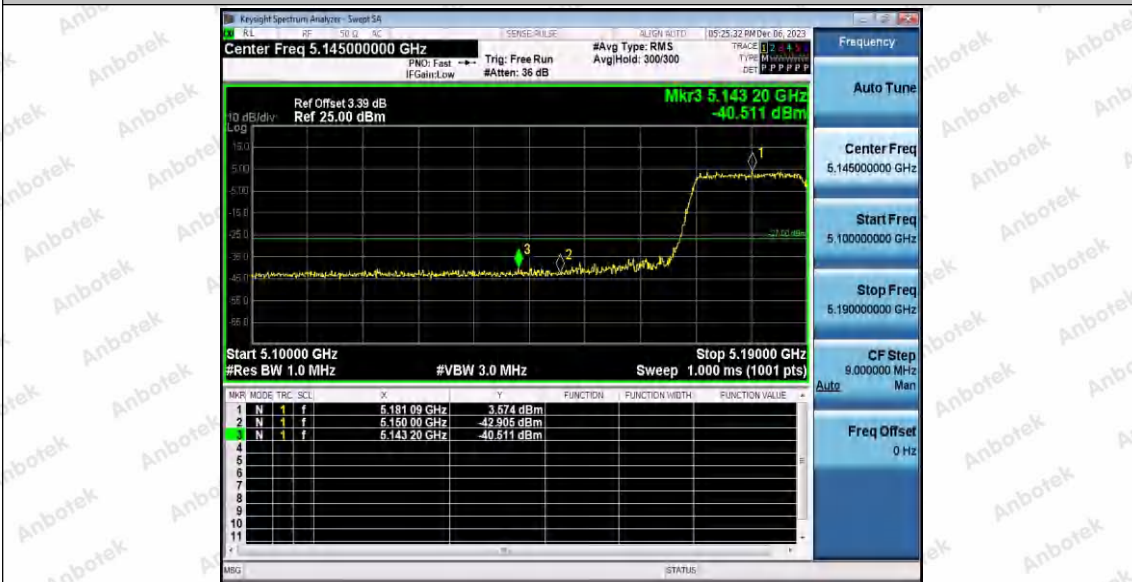
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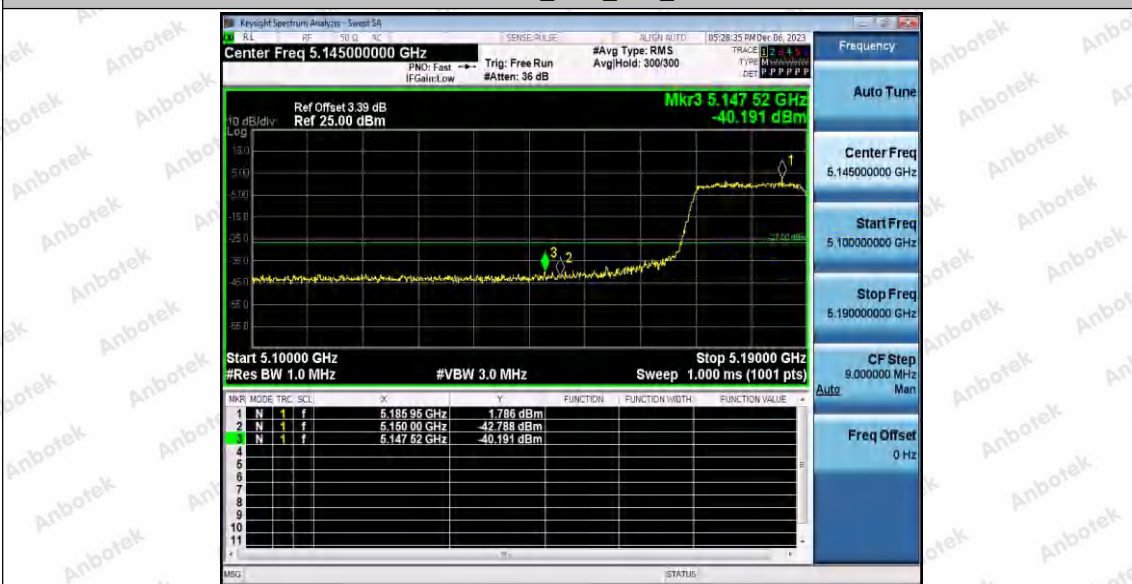




11N40ISO_Ant1_Low_5190



11N40ISO_Ant2_Low_5190



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11N40SISO_Ant1_High_5230



11N40SISO_Ant2_High_5230



11AC20SISO_Ant1_Low_5180

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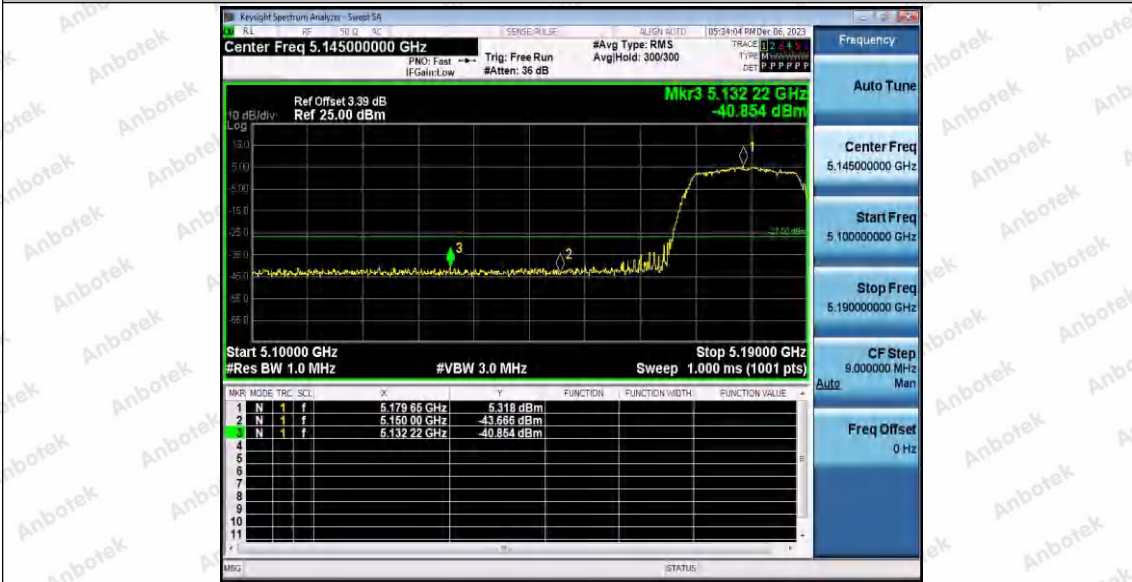
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11AC20SISO_Ant2_Low_5180



11AC20SISO_Ant1_High_5240



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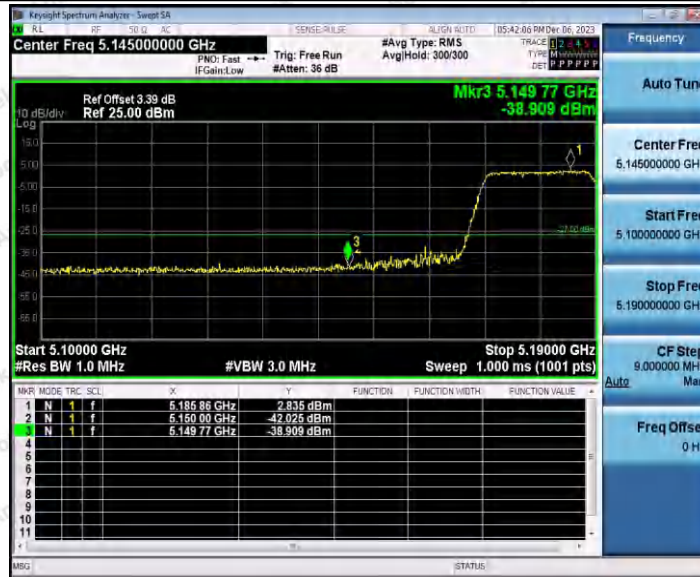
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11AC20SISO_Ant2_High_5240



11AC40SISO_Ant1_Low_5190



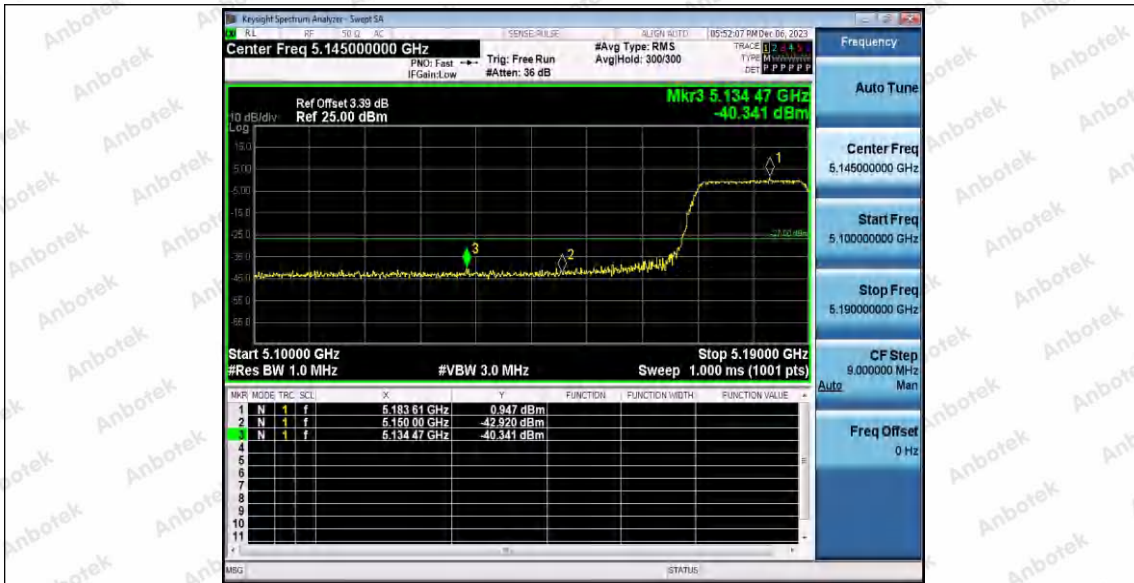
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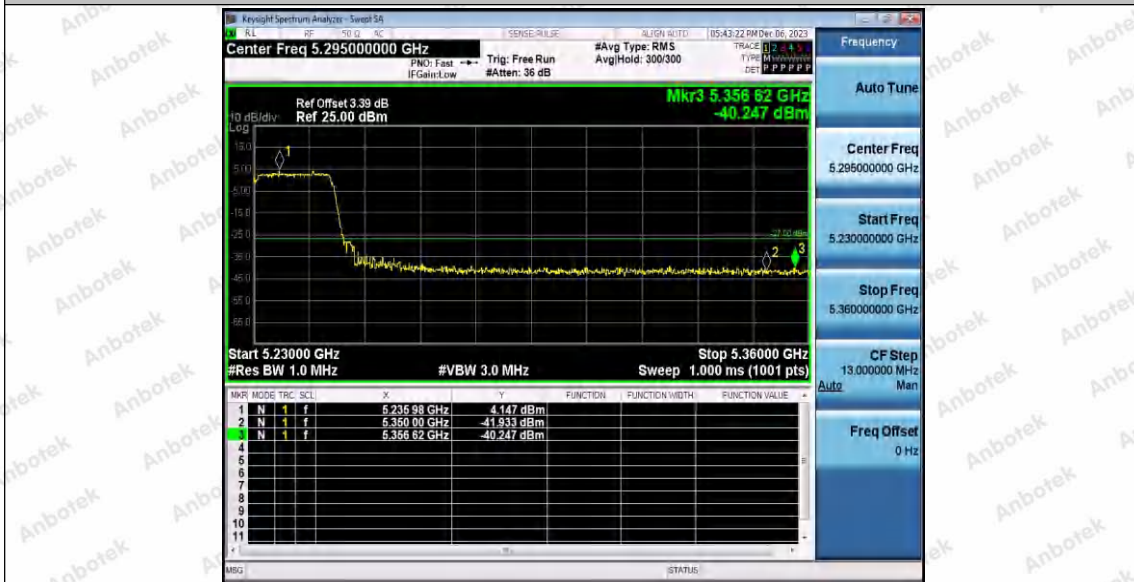
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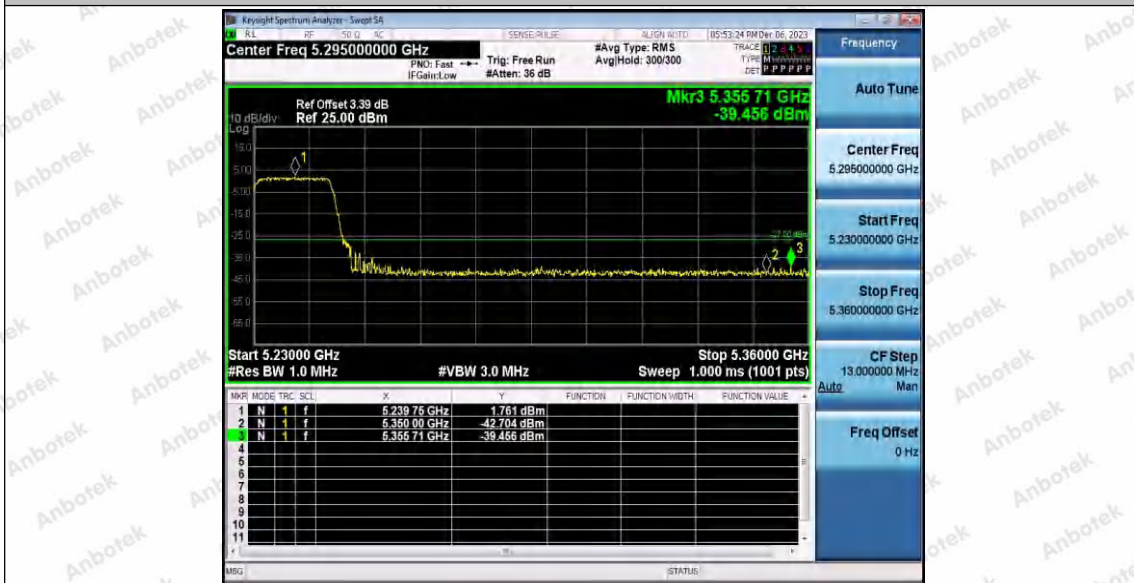




11AC40SISO_Ant1_High_5230



11AC40SISO_Ant2_High_5230



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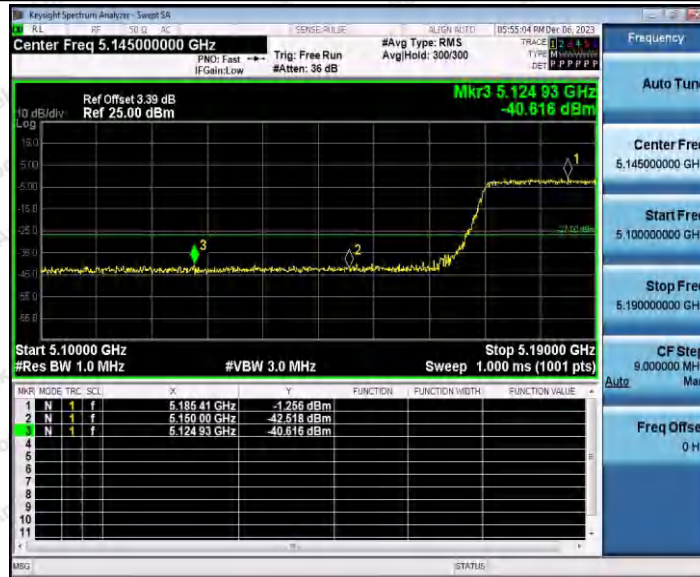
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11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant2_Low_5210



11AC80SISO_Ant1_High_5210

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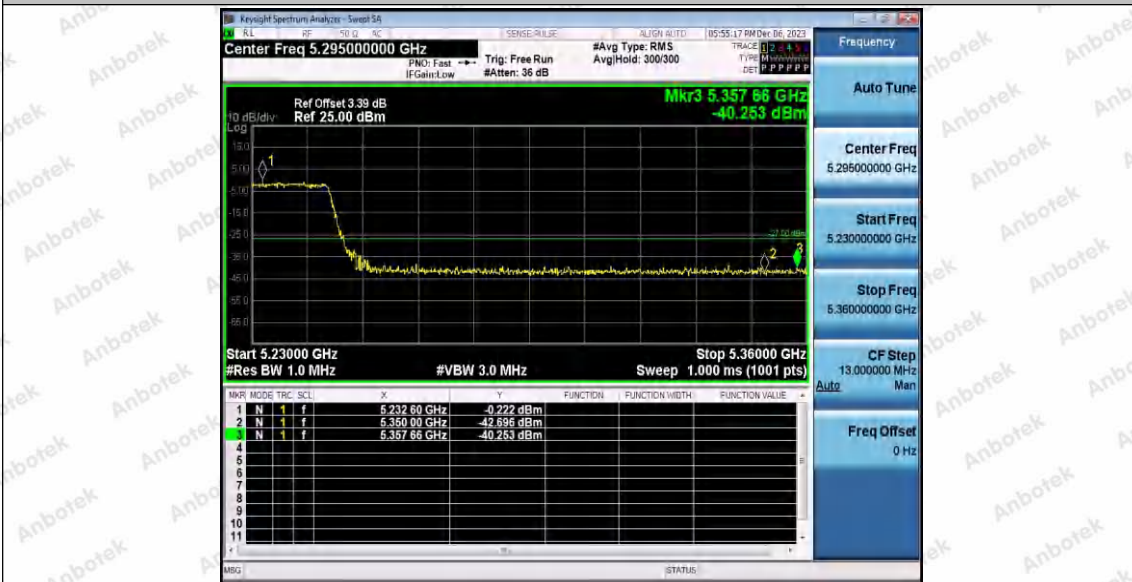
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11AC80SISO_Ant2_High_5210



11AX20SISO_Ant1_Low_5180



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11AX20SISO_Ant2_Low_5180



11AX20SISO_Ant1_High_5240



11AX20SISO_Ant2_High_5240

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11AX40SISO_Ant1_Low_5190



11AX40SISO_Ant2_Low_5190



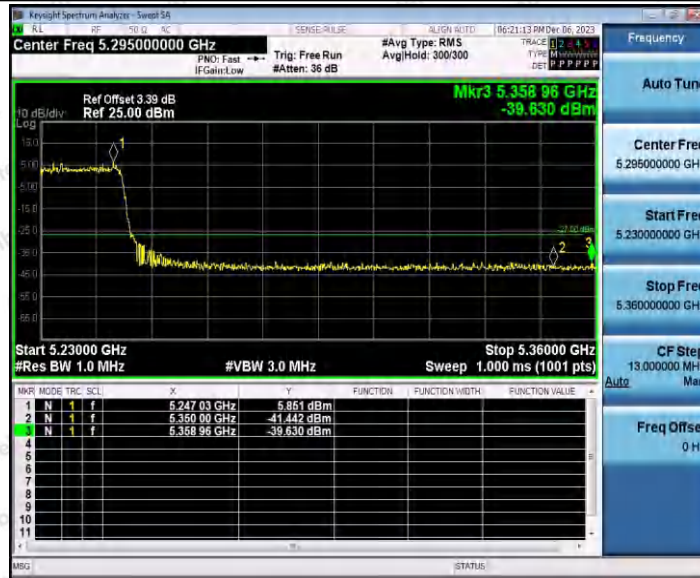
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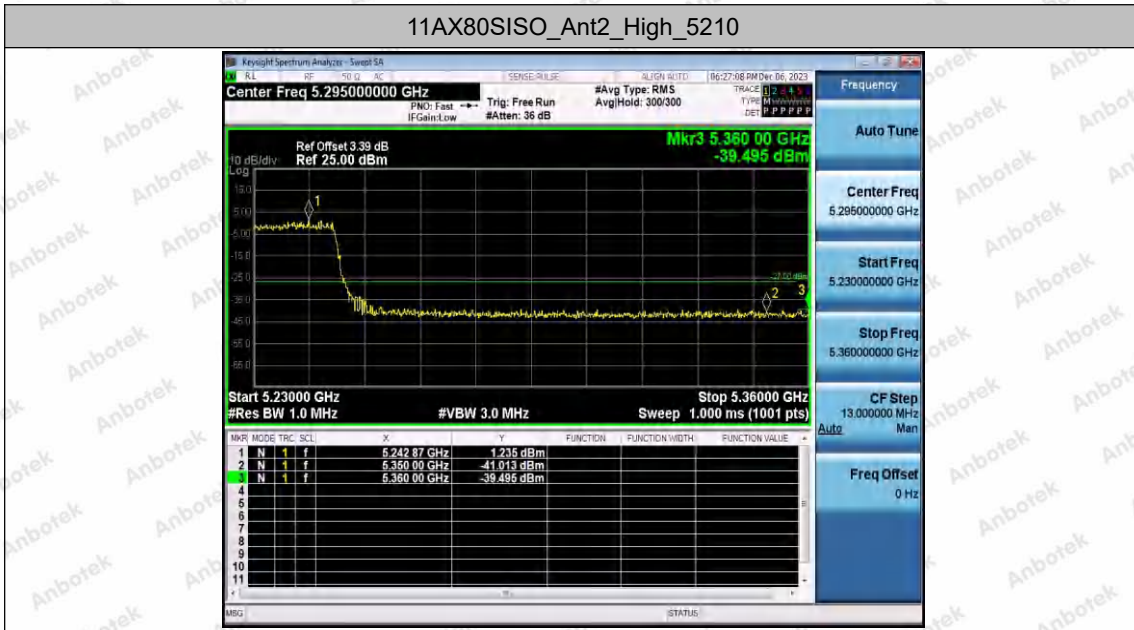


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