

## Appendix A1: Emission Bandwidth

### Test Result

#### Ant 1

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.360	5168.520	5192.880	---	---
11A	Ant1	5200	25.080	5188.120	5213.200	---	---
11A	Ant1	5240	19.920	5229.960	5249.880	---	---
11A	Ant1	5260	20.080	5249.960	5270.040	---	---
11A	Ant1	5280	20.000	5270.080	5290.080	---	---
11A	Ant1	5320	25.480	5307.240	5332.720	---	---
11A	Ant1	5500	25.360	5487.080	5512.440	---	---
11A	Ant1	5580	20.840	5569.720	5590.560	---	---
11A	Ant1	5700	24.400	5686.560	5710.960	---	---
11A	Ant1	5745	23.040	5734.720	5757.760	---	---
11A	Ant1	5785	20.280	5774.920	5795.200	---	---
11A	Ant1	5825	23.000	5812.960	5835.960	---	---
11N20SISO	Ant1	5180	25.440	5167.920	5193.360	---	---
11N20SISO	Ant1	5200	30.600	5185.320	5215.920	---	---
11N20SISO	Ant1	5240	20.360	5229.800	5250.160	---	---
11N20SISO	Ant1	5260	21.320	5249.520	5270.840	---	---
11N20SISO	Ant1	5280	21.160	5269.280	5290.440	---	---
11N20SISO	Ant1	5320	26.600	5307.720	5334.320	---	---
11N20SISO	Ant1	5500	24.960	5487.680	5512.640	---	---
11N20SISO	Ant1	5580	21.520	5569.200	5590.720	---	---
11N20SISO	Ant1	5700	27.960	5684.440	5712.400	---	---
11N20SISO	Ant1	5745	20.840	5734.360	5755.200	---	---
11N20SISO	Ant1	5785	20.960	5774.480	5795.440	---	---
11N20SISO	Ant1	5825	20.440	5814.760	5835.200	---	---
11N40SISO	Ant1	5190	39.600	5170.320	5209.920	---	---
11N40SISO	Ant1	5230	40.560	5209.680	5250.240	---	---
11N40SISO	Ant1	5270	40.000	5250.320	5290.320	---	---
11N40SISO	Ant1	5310	40.080	5290.000	5330.080	---	---
11N40SISO	Ant1	5510	39.920	5490.240	5530.160	---	---
11N40SISO	Ant1	5550	40.160	5529.760	5569.920	---	---
11N40SISO	Ant1	5670	39.600	5650.320	5689.920	---	---
11N40SISO	Ant1	5755	40.000	5735.080	5775.080	---	---
11N40SISO	Ant1	5795	39.680	5775.160	5814.840	---	---
11AC20SISO	Ant1	5180	28.240	5166.640	5194.880	---	---
11AC20SISO	Ant1	5200	26.280	5187.200	5213.480	---	---

11AC20SISO	Ant1	5240	20.320	5229.800	5250.120	---	---
11AC20SISO	Ant1	5260	21.400	5249.480	5270.880	---	---
11AC20SISO	Ant1	5280	21.560	5269.360	5290.920	---	---
11AC20SISO	Ant1	5320	27.640	5305.520	5333.160	---	---
11AC20SISO	Ant1	5500	28.720	5486.040	5514.760	---	---
11AC20SISO	Ant1	5580	21.360	5569.360	5590.720	---	---
11AC20SISO	Ant1	5700	25.120	5685.840	5710.960	---	---
11AC20SISO	Ant1	5745	25.040	5734.120	5759.160	---	---
11AC20SISO	Ant1	5785	21.080	5774.320	5795.400	---	---
11AC20SISO	Ant1	5825	24.480	5812.080	5836.560	---	---
11AC40SISO	Ant1	5190	44.000	5168.160	5212.160	---	---
11AC40SISO	Ant1	5230	40.640	5209.680	5250.320	---	---
11AC40SISO	Ant1	5270	40.080	5250.000	5290.080	---	---
11AC40SISO	Ant1	5310	53.600	5280.240	5333.840	---	---
11AC40SISO	Ant1	5510	48.480	5486.480	5534.960	---	---
11AC40SISO	Ant1	5550	40.400	5529.920	5570.320	---	---
11AC40SISO	Ant1	5670	59.360	5642.000	5701.360	---	---
11AC40SISO	Ant1	5755	45.920	5734.680	5780.600	---	---
11AC40SISO	Ant1	5795	40.320	5774.840	5815.160	---	---
11AC80SISO	Ant1	5210	80.640	5169.840	5250.480	---	---
11AC80SISO	Ant1	5290	85.760	5244.880	5330.640	---	---
11AC80SISO	Ant1	5530	85.280	5485.200	5570.480	---	---
11AC80SISO	Ant1	5610	80.160	5570.000	5650.160	---	---
11AC80SISO	Ant1	5775	80.000	5735.000	5815.000	---	---
11AC160SISO	Ant1	5250	162.560	5169.360	5331.920	---	---
11AC160SISO	Ant1	5250_UNII-1	80.64	5169.360	5250	---	---
11AC160SISO	Ant1	5250_UNII-2A	81.92	5250	5331.920	---	---
11AC160SISO	Ant1	5570	162.240	5489.040	5651.280	---	---
11AX20SISO	Ant1	5180	24.480	5168.760	5193.240	---	---
11AX20SISO	Ant1	5200	26.120	5187.240	5213.360	---	---
11AX20SISO	Ant1	5240	20.480	5229.600	5250.080	---	---
11AX20SISO	Ant1	5260	22.000	5249.120	5271.120	---	---
11AX20SISO	Ant1	5280	21.080	5269.480	5290.560	---	---
11AX20SISO	Ant1	5320	26.960	5305.320	5332.280	---	---
11AX20SISO	Ant1	5500	25.720	5486.720	5512.440	---	---
11AX20SISO	Ant1	5580	21.240	5569.360	5590.600	---	---
11AX20SISO	Ant1	5700	25.800	5685.840	5711.640	---	---
11AX20SISO	Ant1	5745	24.040	5733.800	5757.840	---	---
11AX20SISO	Ant1	5785	21.360	5774.280	5795.640	---	---
11AX20SISO	Ant1	5825	24.200	5812.000	5836.200	---	---
11AX40SISO	Ant1	5190	56.000	5165.440	5221.440	---	---
11AX40SISO	Ant1	5230	40.080	5210.000	5250.080	---	---
11AX40SISO	Ant1	5270	40.160	5250.000	5290.160	---	---

11AX40SISO	Ant1	5310	64.720	5274.080	5338.800	---	---
11AX40SISO	Ant1	5510	56.400	5485.440	5541.840	---	---
11AX40SISO	Ant1	5550	40.240	5529.920	5570.160	---	---
11AX40SISO	Ant1	5670	62.320	5638.640	5700.960	---	---
11AX40SISO	Ant1	5755	51.760	5734.440	5786.200	---	---
11AX40SISO	Ant1	5795	40.240	5774.680	5814.920	---	---
11AX80SISO	Ant1	5210	97.760	5166.000	5263.760	---	---
11AX80SISO	Ant1	5290	96.000	5237.680	5333.680	---	---
11AX80SISO	Ant1	5530	101.120	5486.800	5587.920	---	---
11AX80SISO	Ant1	5610	79.520	5570.480	5650.000	---	---
11AX80SISO	Ant1	5775	79.520	5735.160	5814.680	---	---
11AX160SISO	Ant1	5250	173.760	5162.640	5336.400	---	---
11AX160SISO	Ant1	5250_UNII-1	87.36	5162.640	5250	---	---
11AX160SISO	Ant1	5250_UNII-2A	86.4	5250	5336.400	---	---
11AX160SISO	Ant1	5570	170.560	5486.480	5657.040	---	---

Keysight Spectrum Analyzer - Sweep SA

Center Freq 5.180000000 GHz

Ref Offset 9.79 dB  
Ref 20.00 dBm

ΔMkr3 24.36 MHz  
-0.597 dB

Center 5.18000 GHz  
#Res BW 220 kHz  
#VBW 680 kHz  
Sweep 1.000 ms (1001 pts)

Mkri	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.188 62 GHz	-22.976 dBm			
2	N	1	f	5.180 84 GHz	3.069 dBm			
3	Δ1	1	f (Δ)	24.36 MHz (Δ)	-0.597 dB			

11A-Ant1-5180

Keysight Spectrum Analyzer - Sweep SA

Center Freq 5.200000000 GHz

Ref Offset 9.79 dB  
Ref 20.00 dBm

ΔMkr3 25.08 MHz  
-1.021 dB

Center 5.20000 GHz  
#Res BW 220 kHz  
#VBW 680 kHz  
Sweep 1.000 ms (1001 pts)

Mkri	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.188 12 GHz	-23.942 dBm			
2	N	1	f	5.199 00 GHz	3.588 dBm			
3	Δ1	1	f (Δ)	25.08 MHz (Δ)	-1.021 dB			

11A-Ant1-5200

11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5260



11A-Ant1-5280



11A-Ant1-5320





11A-Ant1-5500



11A-Ant1-5580



11A-Ant1-5700



11A-Ant1-5745





11A-Ant1-5785



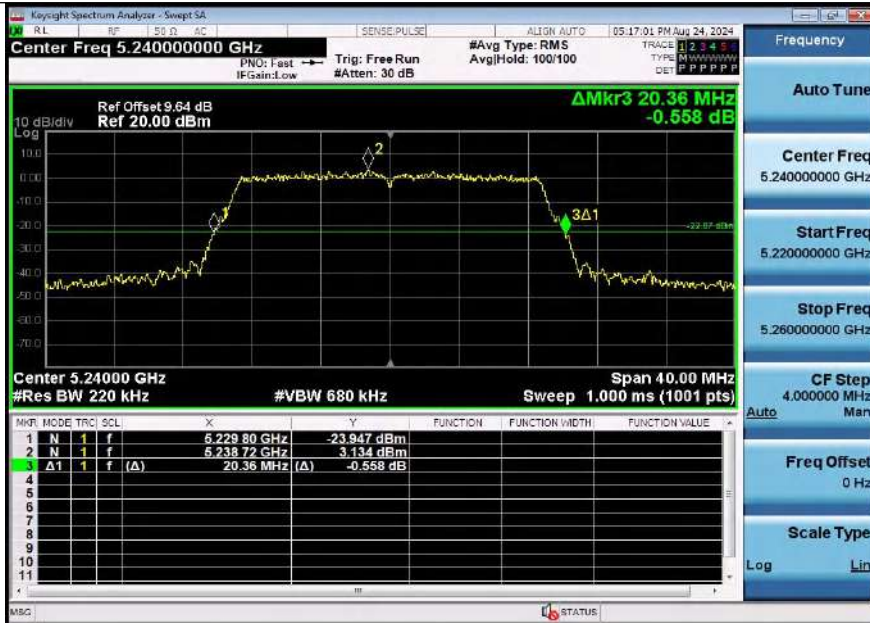
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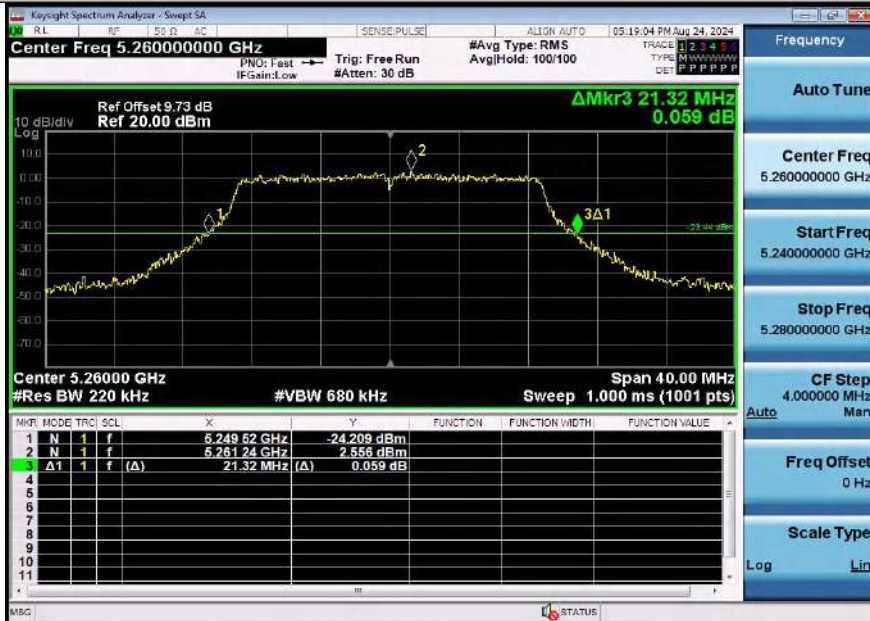
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11N20SISO-Ant1-5200



11N20SISO-Ant1-5240



11N20SISO-Ant1-5260



11N20SISO-Ant1-5280



11N20SISO-Ant1-5320





11N20SISO-Ant1-5500



11N20SISO-Ant1-5580



11N20SISO-Ant1-5700



11N20SISO-Ant1-5745

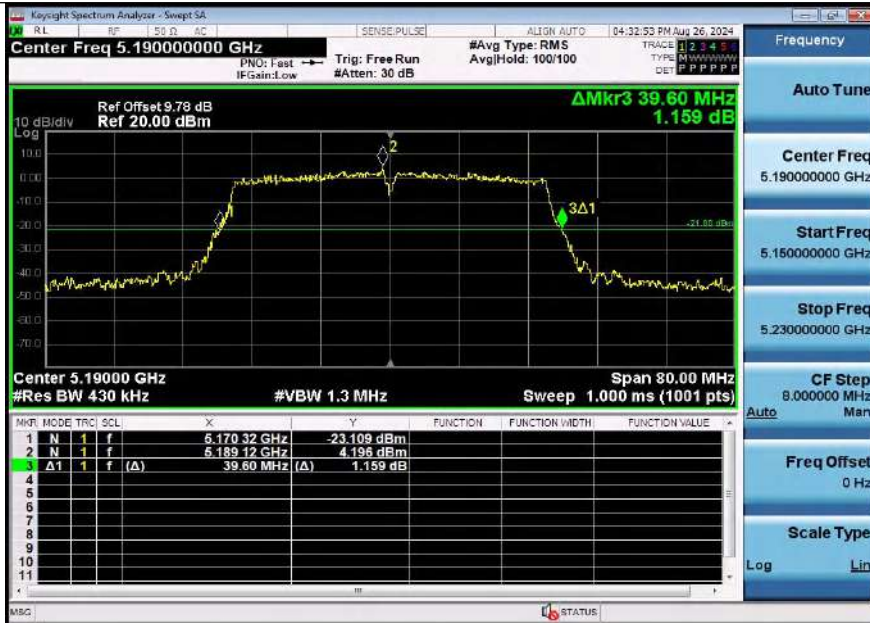




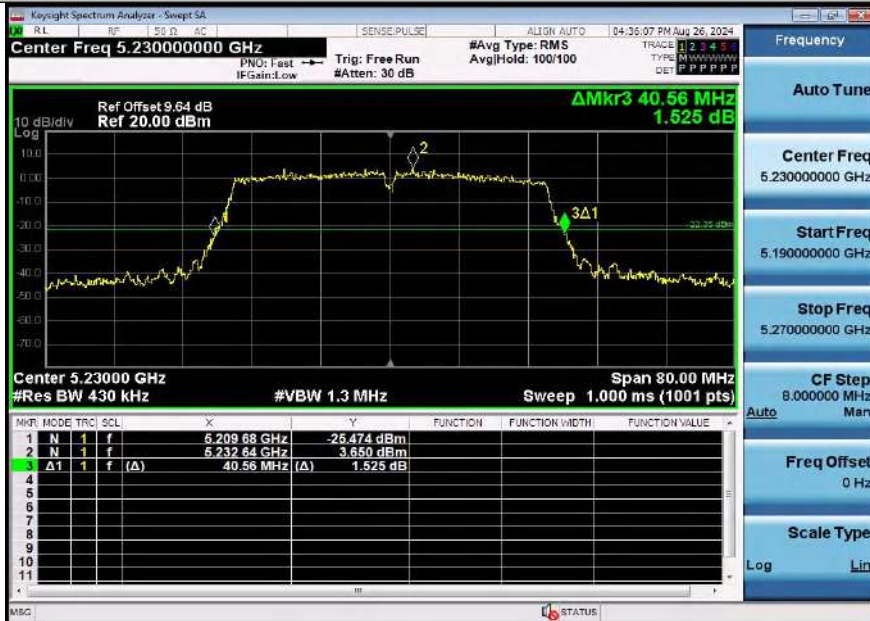
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11N40SISO-Ant1-5230



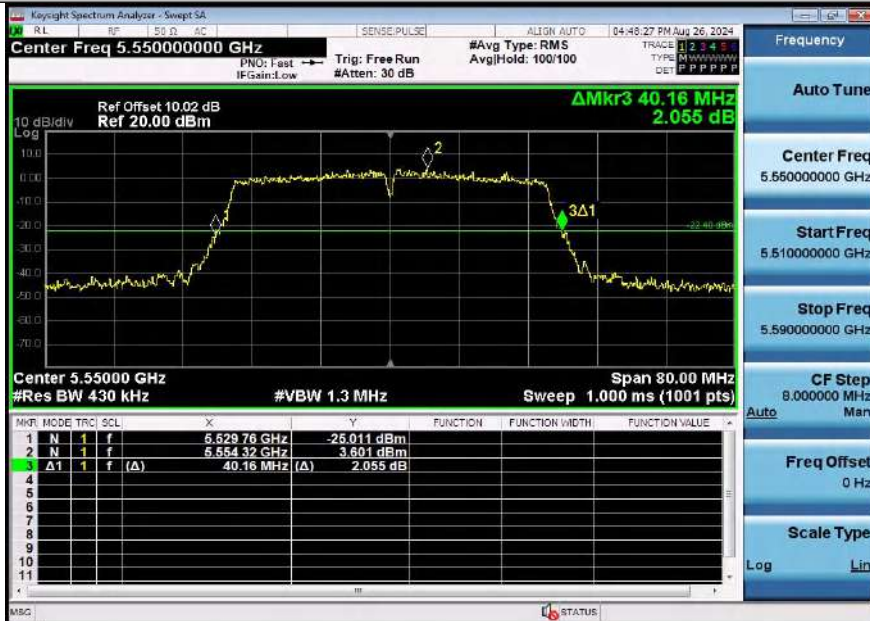
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11N40SISO-Ant1-5510



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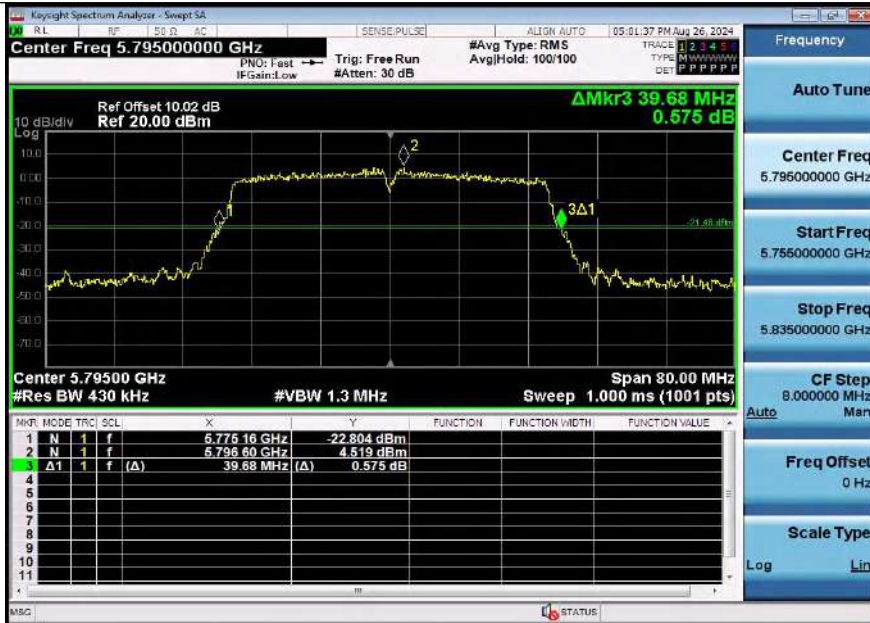




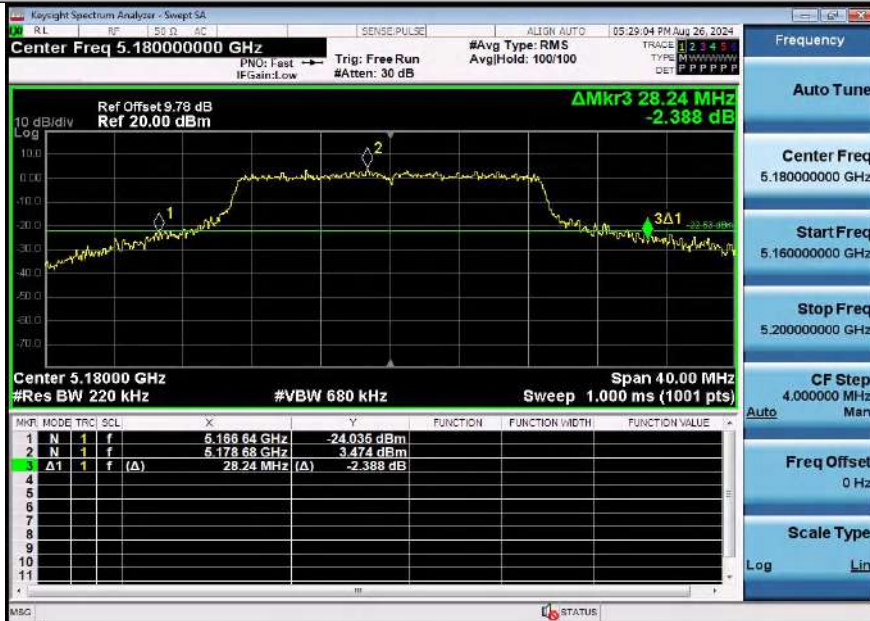
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11N40SISO-Ant1-5755



11N40SISO-Ant1-5795

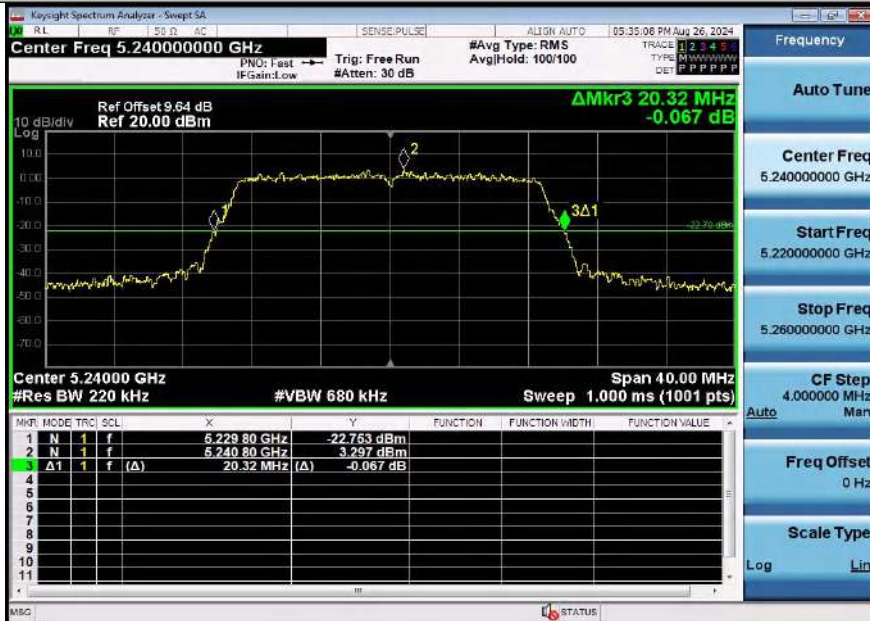


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11AC20SISO-Ant1-5200



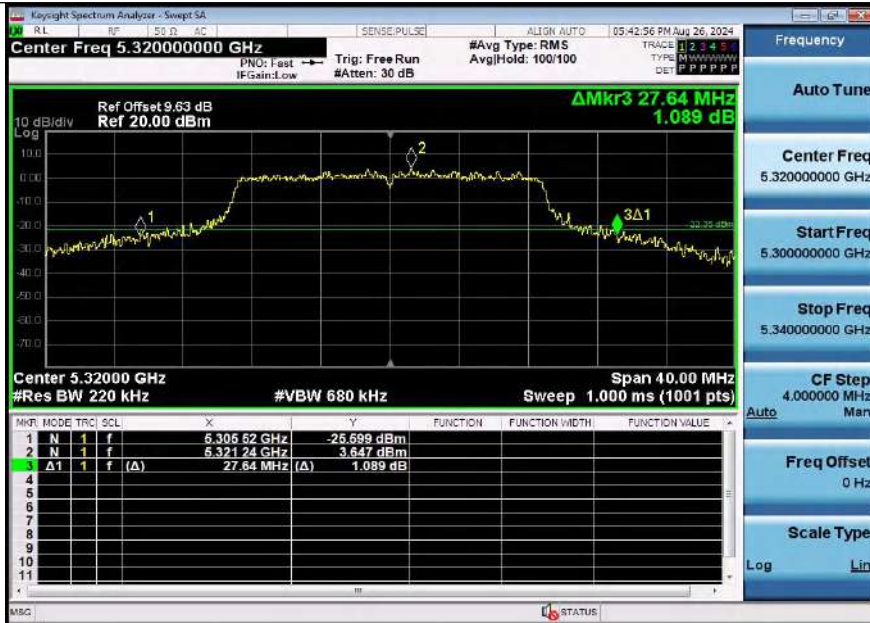
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11AC20SISO-Ant1-5280



11AC20SISO-Ant1-5320



11AC20SISO-Ant1-5500



11AC20SISO-Ant1-5580



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11AC20SISO-Ant1-5785



11AC20SISO-Ant1-5825

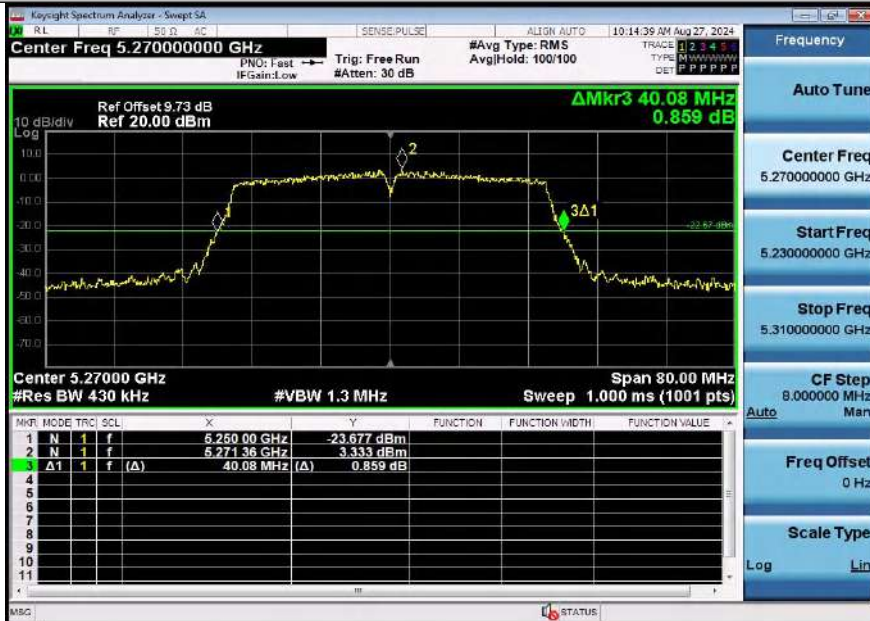


11AC40SISO-Ant1-5190





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11AC40SISO-Ant1-5270



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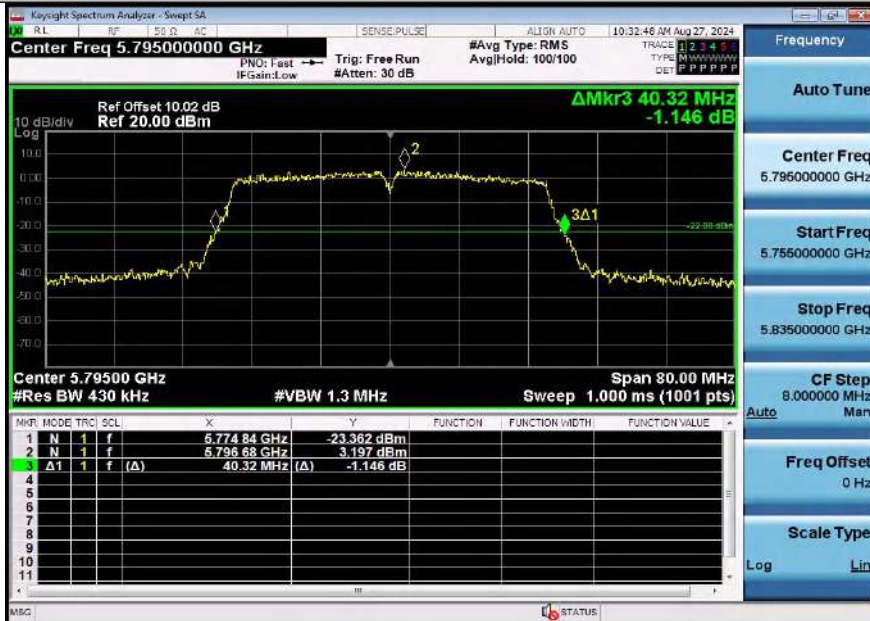
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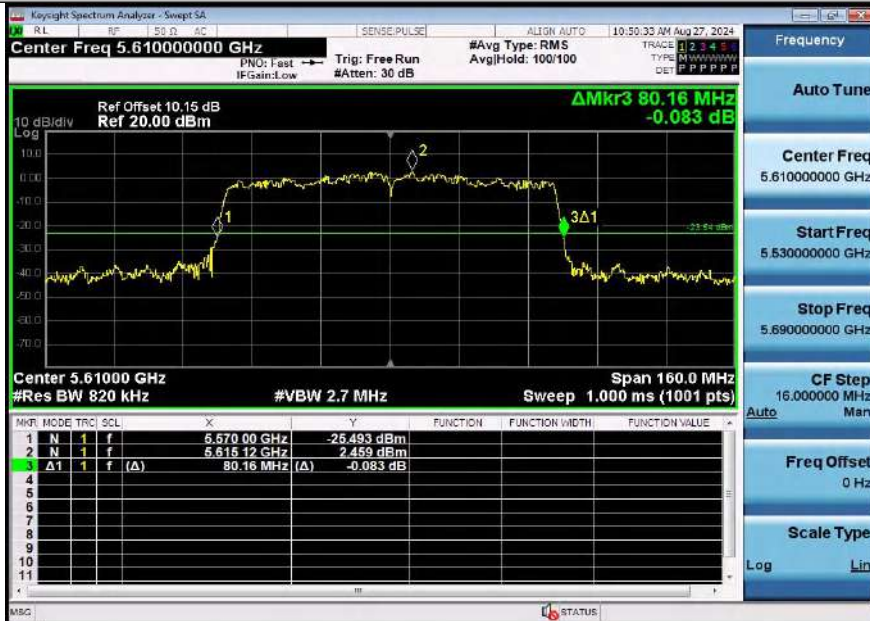
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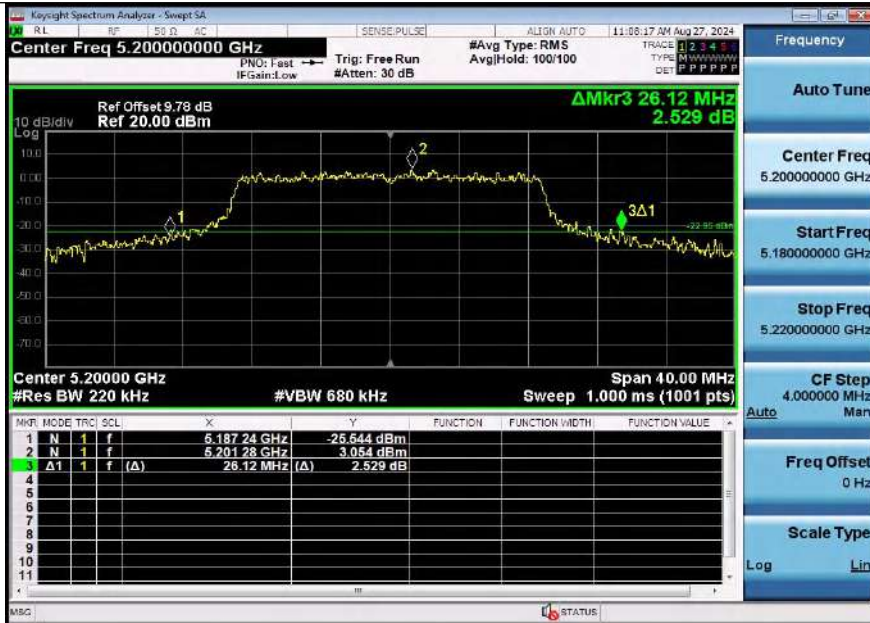
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11AX20SISO-Ant1-5260



11AX20SISO-Ant1-5280





11AX20SISO-Ant1-5320



11AX20SISO-Ant1-5500



11AX20SISO-Ant1-5580



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11AX20SISO-Ant1-5785



11AX20SISO-Ant1-5825

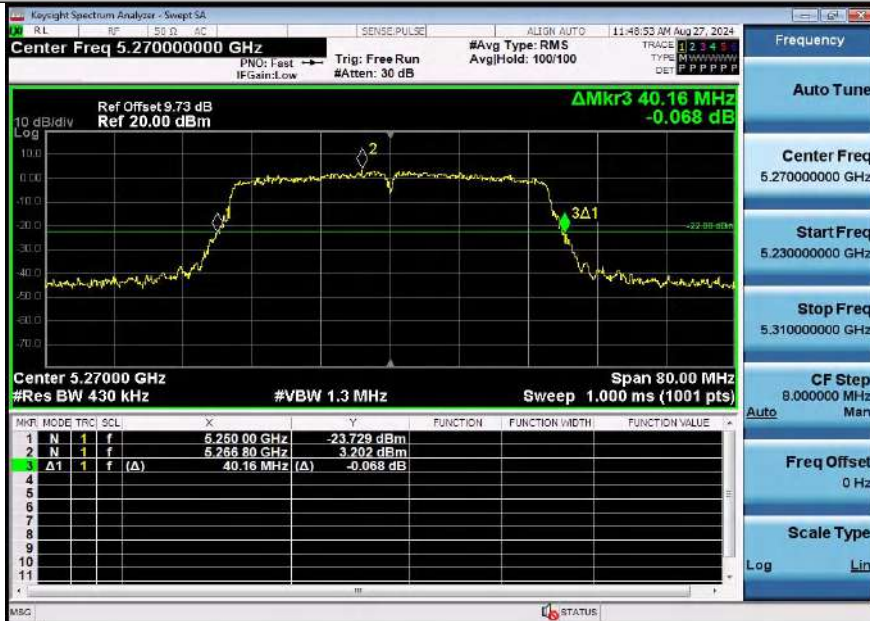


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11AX40SISO-Ant1-5310



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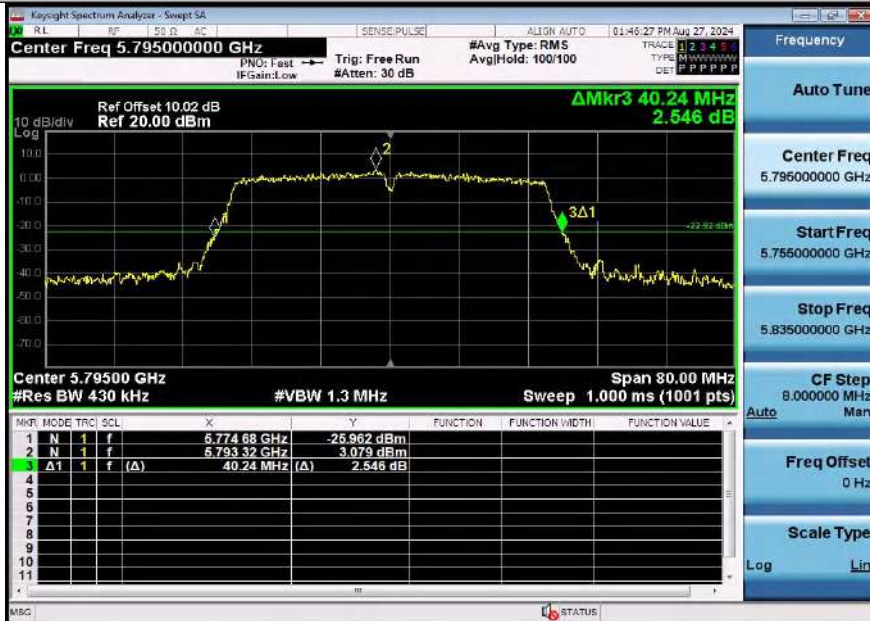
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11AX40SISO-Ant1-5795





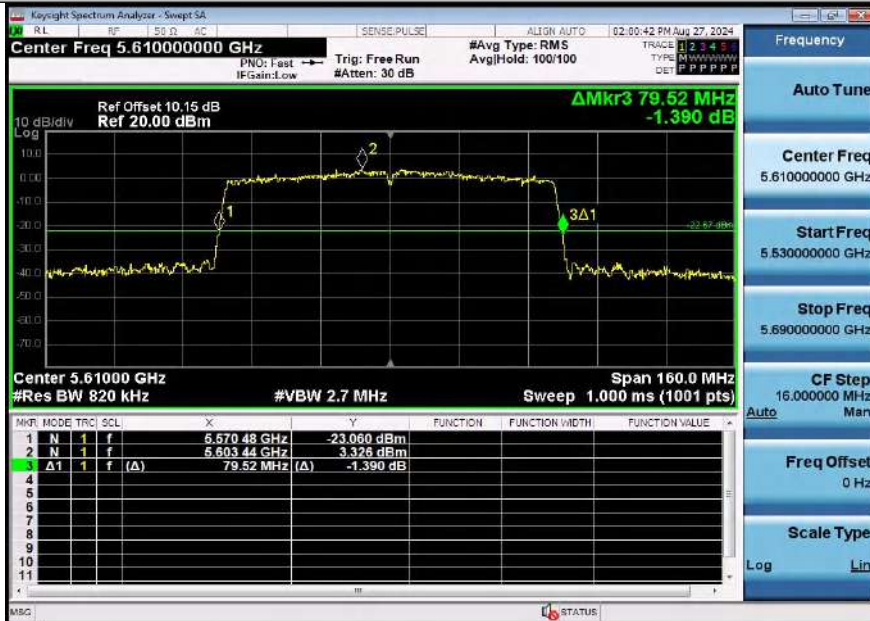
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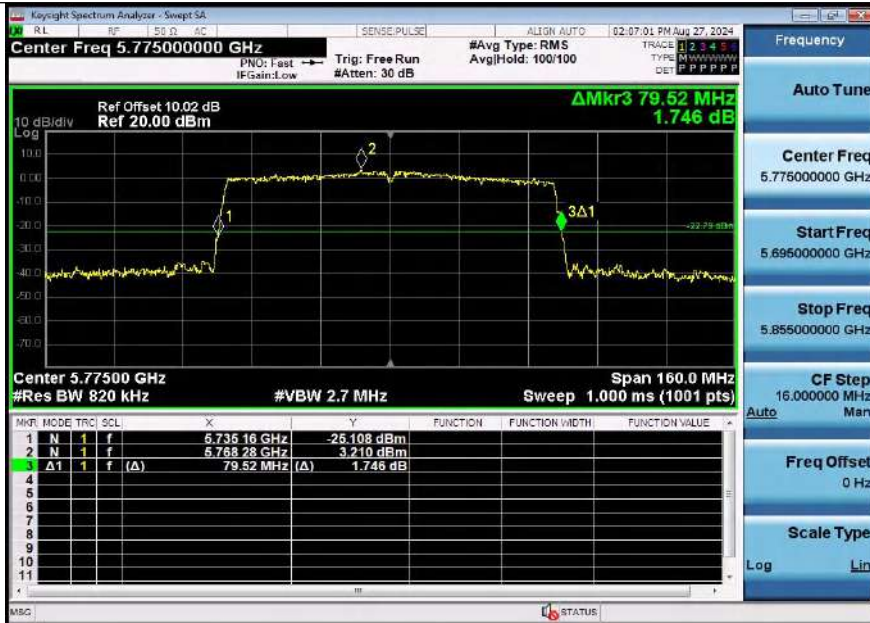
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11AX80SISO-Ant1-5610



11AX80SISO-Ant1-5775



11AX160SISO-Ant1-5250



11AX160SISO-Ant1-5570



## Ant 2

### Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	25.320	5168.480	5193.800	---	---
11A	Ant2	5200	23.760	5187.880	5211.640	---	---
11A	Ant2	5240	19.960	5230.040	5250.000	---	---
11A	Ant2	5260	20.520	5249.560	5270.080	---	---
11A	Ant2	5280	20.520	5269.960	5290.480	---	---
11A	Ant2	5320	26.400	5306.480	5332.880	---	---
11A	Ant2	5500	26.160	5487.320	5513.480	---	---
11A	Ant2	5580	20.320	5569.840	5590.160	---	---
11A	Ant2	5700	23.080	5688.040	5711.120	---	---
11A	Ant2	5745	22.760	5734.280	5757.040	---	---
11A	Ant2	5785	21.080	5774.400	5795.480	---	---
11A	Ant2	5825	23.760	5812.480	5836.240	---	---
11N20SISO	Ant2	5180	25.680	5167.680	5193.360	---	---
11N20SISO	Ant2	5200	25.600	5186.560	5212.160	---	---
11N20SISO	Ant2	5240	20.200	5229.840	5250.040	---	---
11N20SISO	Ant2	5260	22.000	5249.000	5271.000	---	---
11N20SISO	Ant2	5280	21.320	5269.480	5290.800	---	---
11N20SISO	Ant2	5320	24.720	5307.120	5331.840	---	---
11N20SISO	Ant2	5500	26.440	5488.120	5514.560	---	---
11N20SISO	Ant2	5580	21.600	5569.200	5590.800	---	---
11N20SISO	Ant2	5700	27.520	5684.360	5711.880	---	---
11N20SISO	Ant2	5745	23.280	5734.320	5757.600	---	---
11N20SISO	Ant2	5785	21.600	5774.000	5795.600	---	---
11N20SISO	Ant2	5825	25.960	5811.240	5837.200	---	---
11N40SISO	Ant2	5190	45.040	5167.200	5212.240	---	---
11N40SISO	Ant2	5230	40.640	5209.760	5250.400	---	---
11N40SISO	Ant2	5270	40.720	5249.760	5290.480	---	---
11N40SISO	Ant2	5310	52.400	5282.640	5335.040	---	---
11N40SISO	Ant2	5510	49.840	5485.520	5535.360	---	---
11N40SISO	Ant2	5550	40.480	5529.920	5570.400	---	---
11N40SISO	Ant2	5670	49.040	5645.280	5694.320	---	---
11N40SISO	Ant2	5755	48.720	5734.680	5783.400	---	---
11N40SISO	Ant2	5795	41.120	5774.120	5815.240	---	---
11AC20SISO	Ant2	5180	26.240	5167.400	5193.640	---	---
11AC20SISO	Ant2	5200	28.840	5184.680	5213.520	---	---
11AC20SISO	Ant2	5240	20.320	5229.840	5250.160	---	---
11AC20SISO	Ant2	5260	21.160	5249.440	5270.600	---	---

11AC20SISO	Ant2	5280	21.320	5269.360	5290.680	---	---
11AC20SISO	Ant2	5320	26.920	5305.640	5332.560	---	---
11AC20SISO	Ant2	5500	26.960	5487.480	5514.440	---	---
11AC20SISO	Ant2	5580	21.240	5569.320	5590.560	---	---
11AC20SISO	Ant2	5700	25.560	5686.240	5711.800	---	---
11AC20SISO	Ant2	5745	24.160	5734.240	5758.400	---	---
11AC20SISO	Ant2	5785	21.320	5774.160	5795.480	---	---
11AC20SISO	Ant2	5825	23.040	5812.880	5835.920	---	---
11AC40SISO	Ant2	5190	45.680	5166.080	5211.760	---	---
11AC40SISO	Ant2	5230	40.240	5210.000	5250.240	---	---
11AC40SISO	Ant2	5270	40.400	5249.920	5290.320	---	---
11AC40SISO	Ant2	5310	48.800	5283.600	5332.400	---	---
11AC40SISO	Ant2	5510	46.400	5486.720	5533.120	---	---
11AC40SISO	Ant2	5550	40.640	5529.920	5570.560	---	---
11AC40SISO	Ant2	5670	57.360	5641.360	5698.720	---	---
11AC40SISO	Ant2	5755	44.640	5734.600	5779.240	---	---
11AC40SISO	Ant2	5795	40.320	5774.840	5815.160	---	---
11AC80SISO	Ant2	5210	85.440	5165.200	5250.640	---	---
11AC80SISO	Ant2	5290	85.440	5244.880	5330.320	---	---
11AC80SISO	Ant2	5530	80.640	5489.840	5570.480	---	---
11AC80SISO	Ant2	5610	80.160	5570.000	5650.160	---	---
11AC80SISO	Ant2	5775	79.840	5735.000	5814.840	---	---
11AC160SISO	Ant2	5250	161.920	5169.360	5331.280	---	---
11AC160SISO	Ant2	5250_UNII-1	80.64	5169.360	5250	---	---
11AC160SISO	Ant2	5250_UNII-2A	81.28	5250	5331.280	---	---
11AC160SISO	Ant2	5570	162.240	5489.360	5651.600	---	---
11AX20SISO	Ant2	5180	26.280	5166.480	5192.760	---	---
11AX20SISO	Ant2	5200	23.960	5187.520	5211.480	---	---
11AX20SISO	Ant2	5240	20.360	5229.840	5250.200	---	---
11AX20SISO	Ant2	5260	21.280	5249.440	5270.720	---	---
11AX20SISO	Ant2	5280	21.040	5269.680	5290.720	---	---
11AX20SISO	Ant2	5320	25.280	5306.680	5331.960	---	---
11AX20SISO	Ant2	5500	24.640	5487.680	5512.320	---	---
11AX20SISO	Ant2	5580	21.440	5569.360	5590.800	---	---
11AX20SISO	Ant2	5700	25.480	5685.720	5711.200	---	---
11AX20SISO	Ant2	5745	24.640	5734.160	5758.800	---	---
11AX20SISO	Ant2	5785	21.280	5774.440	5795.720	---	---
11AX20SISO	Ant2	5825	23.080	5813.200	5836.280	---	---
11AX40SISO	Ant2	5190	50.880	5168.000	5218.880	---	---
11AX40SISO	Ant2	5230	40.160	5209.840	5250.000	---	---
11AX40SISO	Ant2	5270	39.840	5250.160	5290.000	---	---
11AX40SISO	Ant2	5310	57.920	5276.400	5334.320	---	---
11AX40SISO	Ant2	5510	54.560	5486.800	5541.360	---	---