

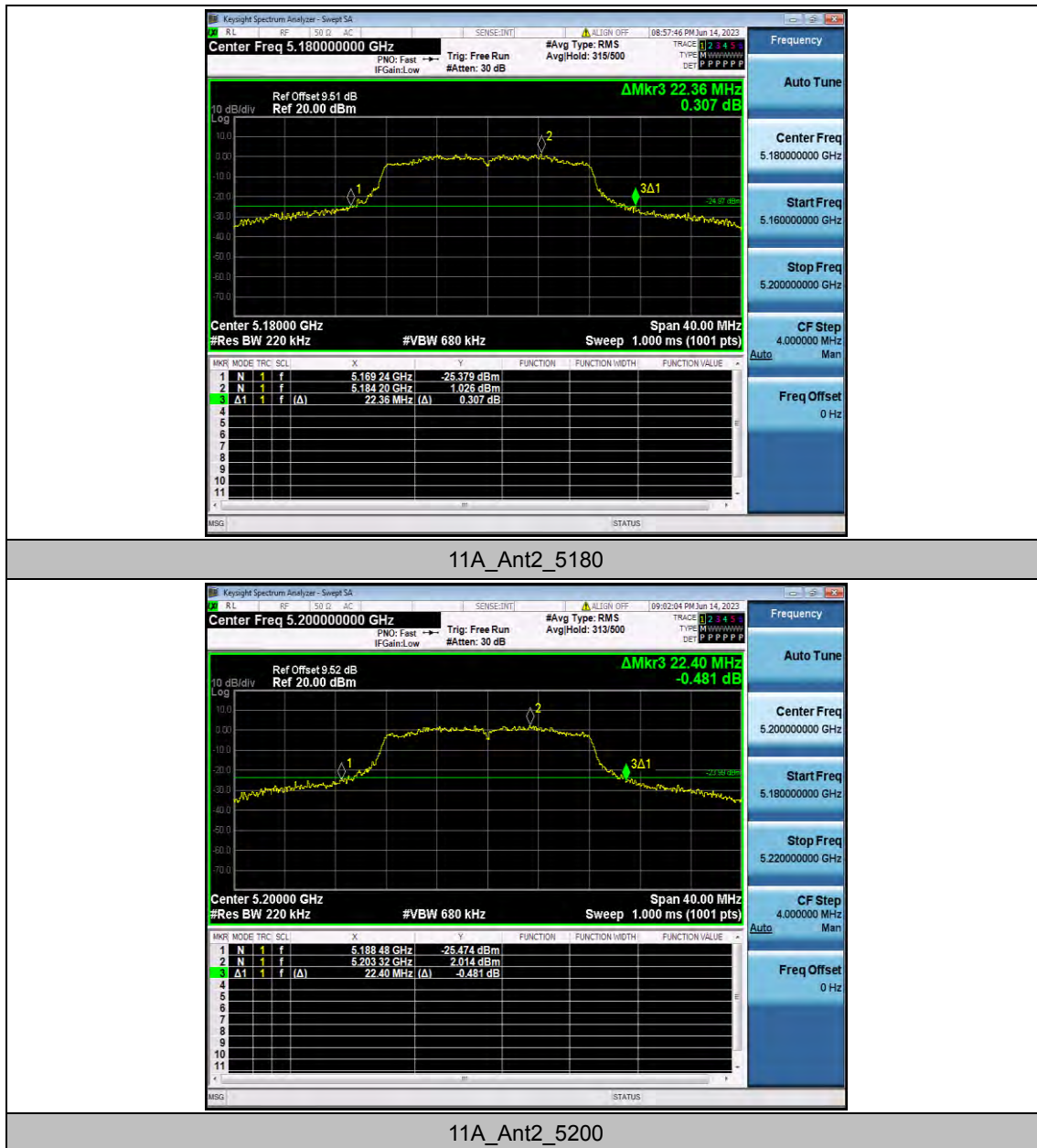
Case No. : <u>GTS20230525016-1-22</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.6.14</u>	Test Engineer: <u>Jenny zeng</u>

Appendix D.1: Emission Bandwidth

Test Result

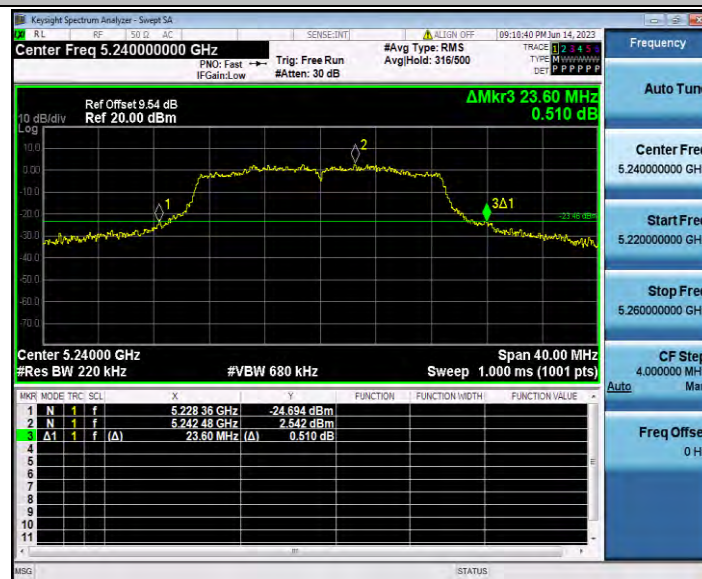
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	22.360	5169.240	5191.600	---	---
		5200	22.400	5188.480	5210.880	---	---
		5240	20.840	5229.640	5250.480	---	---
11N20SISO	Ant2	5180	22.760	5168.120	5190.880	---	---
		5200	23.320	5187.960	5211.280	---	---
		5240	23.600	5228.360	5251.960	---	---
11N40SISO	Ant2	5190	41.520	5169.120	5210.640	---	---
		5230	41.120	5209.440	5250.560	---	---
11AC20SISO	Ant2	5180	22.080	5168.880	5190.960	---	---
		5200	21.640	5189.360	5211.000	---	---
		5240	22.160	5228.920	5251.080	---	---
11AC40SISO	Ant2	5190	41.360	5169.520	5210.880	---	---
		5230	41.520	5209.440	5250.960	---	---
11AC80SISO	Ant2	5210	85.600	5165.200	5250.800	---	---

Test Graphs

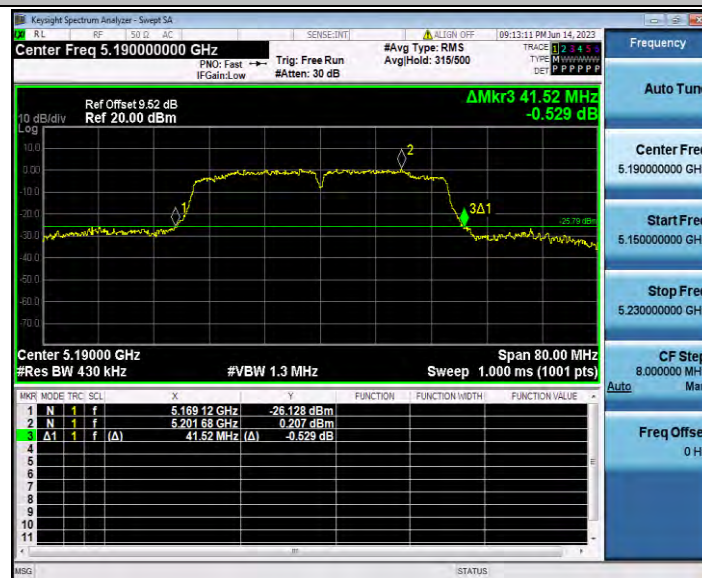




11N20SISO_Ant2_5200



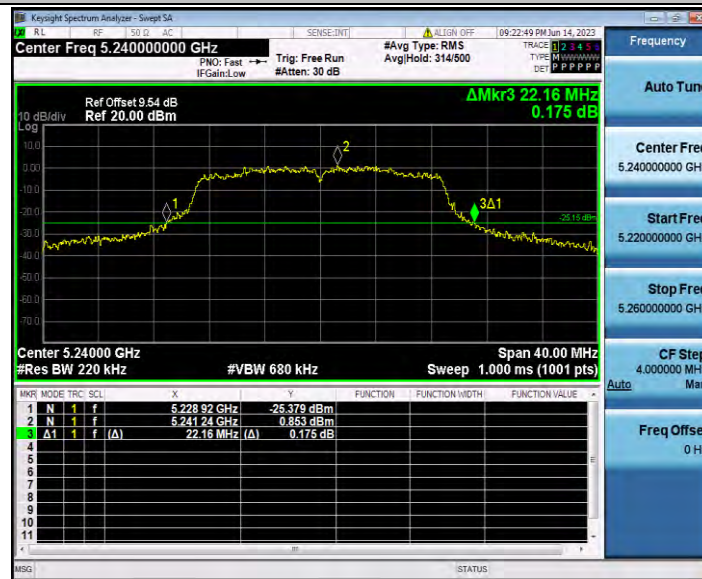
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



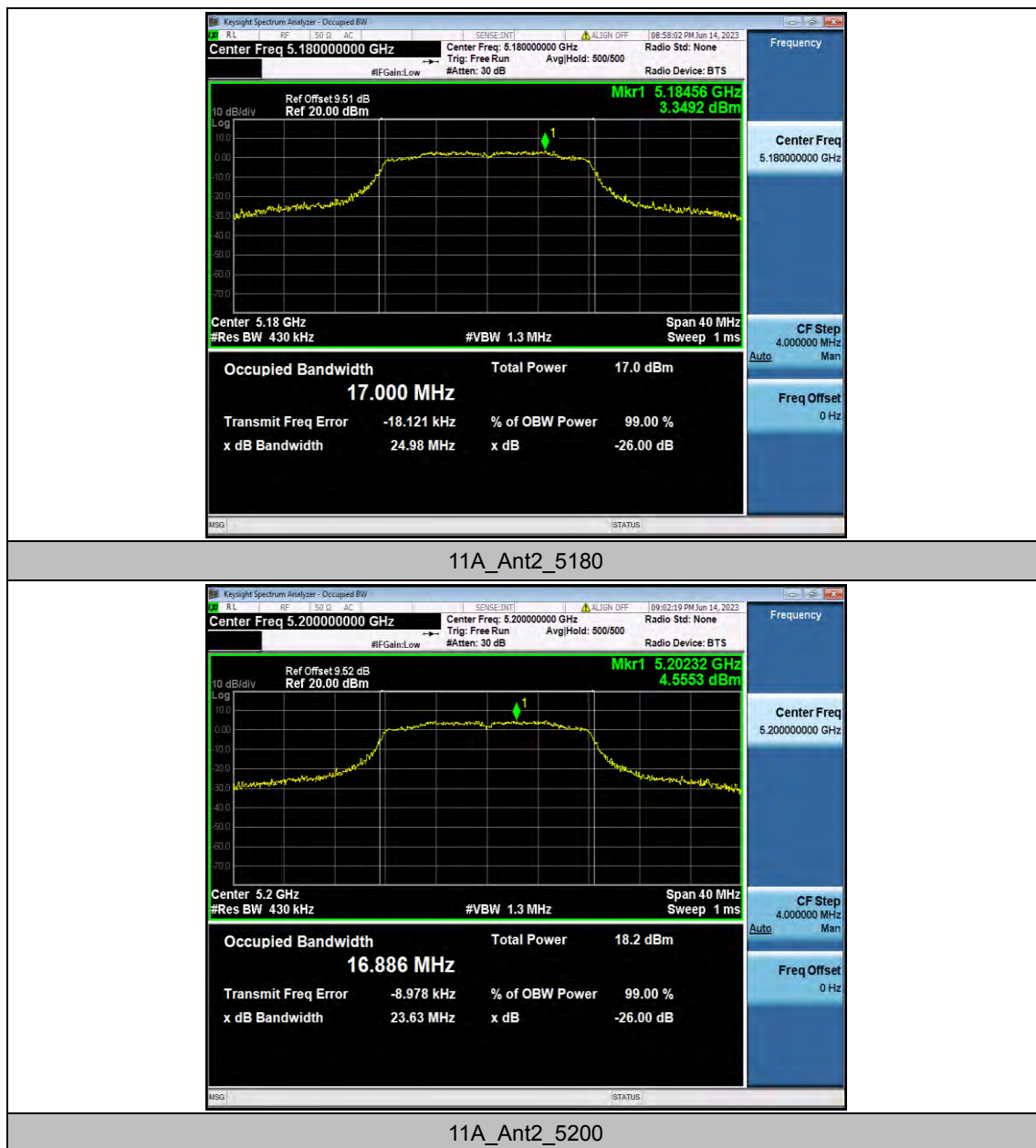
11AC80SISO_Ant2_5210

Appendix D.2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.000	5171.482	5188.482	---	---
		5200	16.886	5191.548	5208.434	---	---
		5240	16.892	5231.563	5248.455	---	---
11N20SISO	Ant2	5180	18.094	5170.946	5189.040	---	---
		5200	18.083	5190.952	5209.035	---	---
		5240	18.017	5231.021	5249.038	---	---
11N40SISO	Ant2	5190	36.394	5171.824	5208.218	---	---
		5230	36.320	5211.878	5248.198	---	---
11AC20SISO	Ant2	5180	17.989	5170.981	5188.970	---	---
		5200	18.032	5190.972	5209.004	---	---
		5240	18.003	5231.002	5249.005	---	---
11AC40SISO	Ant2	5190	36.316	5171.862	5208.178	---	---
		5230	36.307	5211.883	5248.190	---	---
11AC80SISO	Ant2	5210	75.394	5172.420	5247.814	---	---

Test Graphs





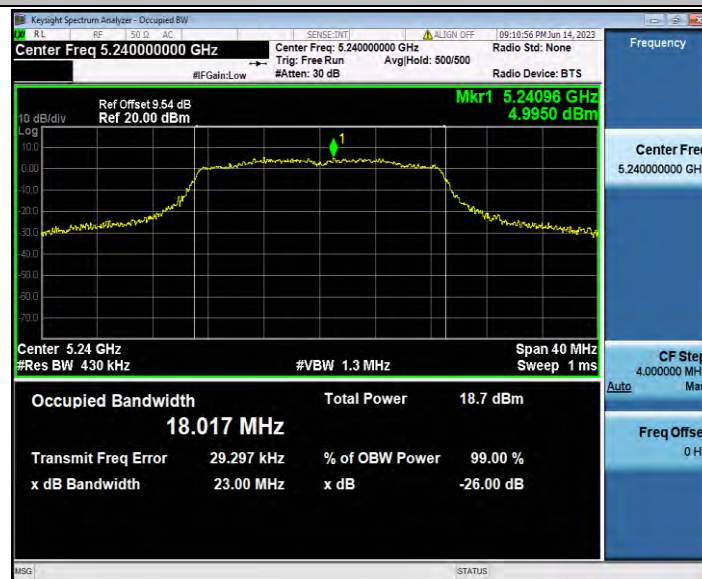
11A_Ant2_5240



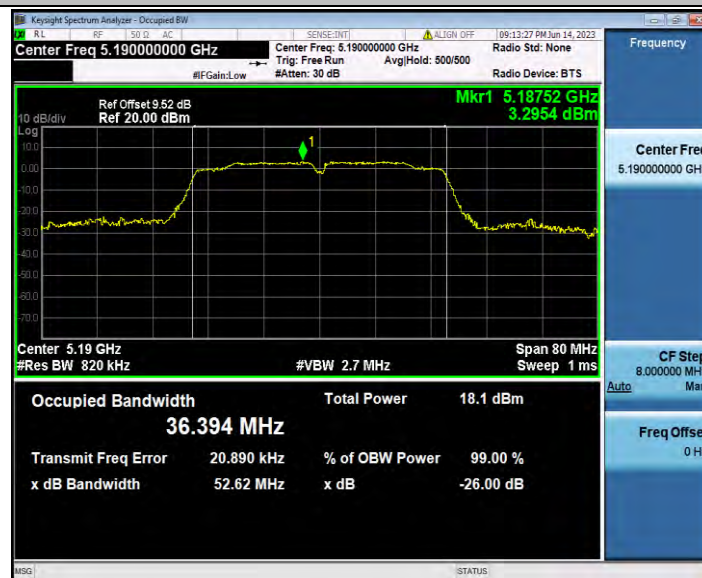
11N20SISO_Ant2_5180



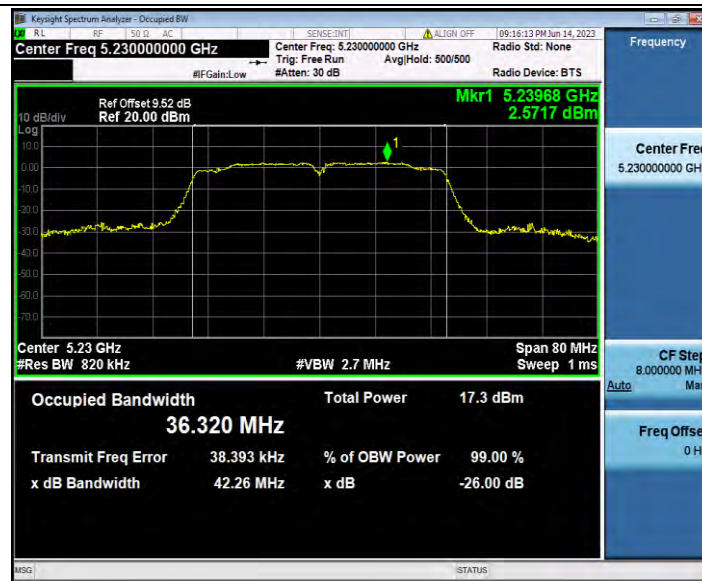
11N20SISO_Ant2_5200



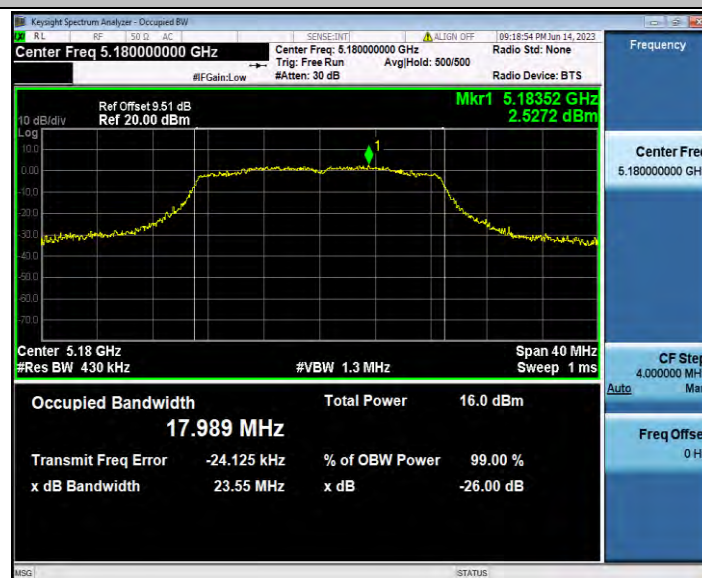
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



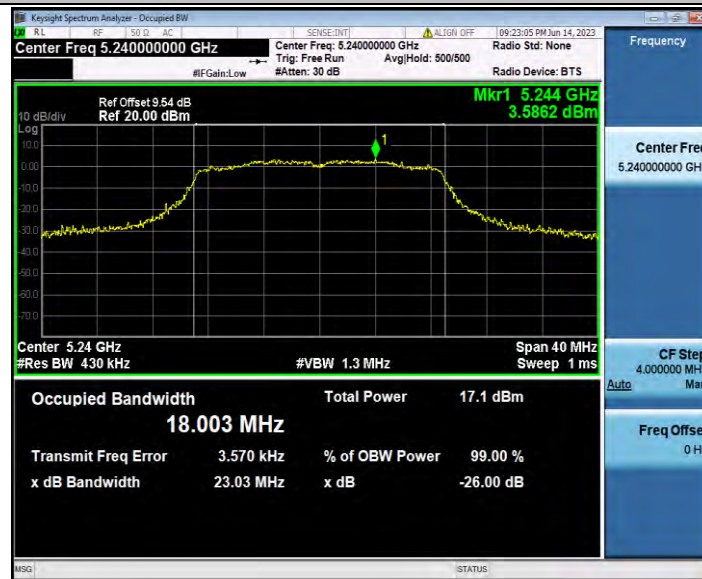
11N40SISO_Ant2_5230



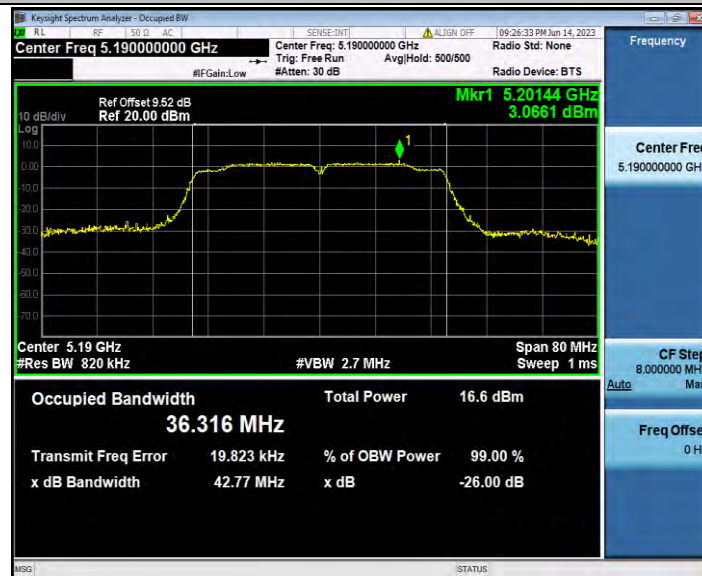
11AC20SISO_Ant2_5180



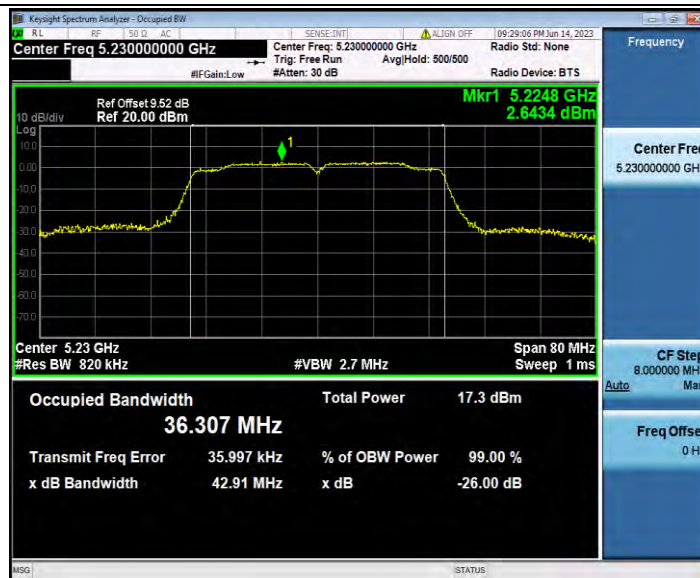
11AC20SISO_Ant2_5200



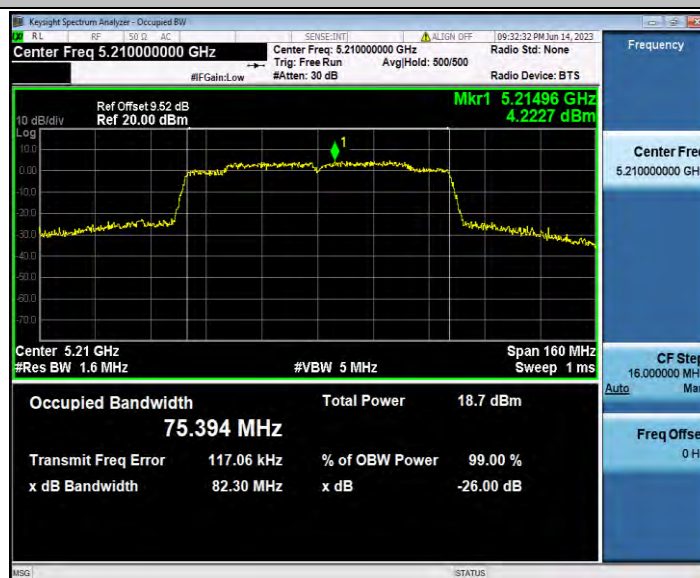
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



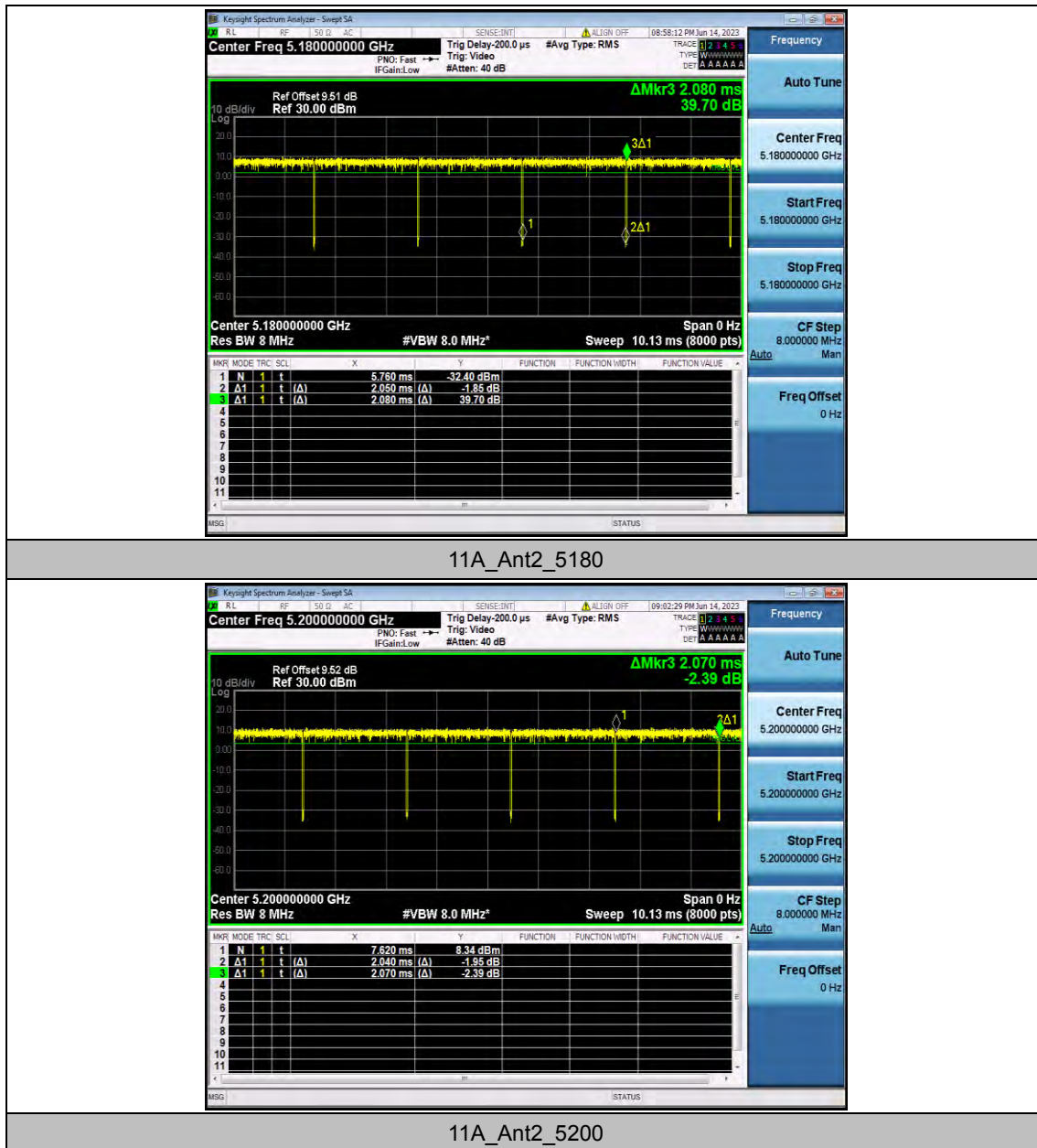
11AC80SISO_Ant2_5210

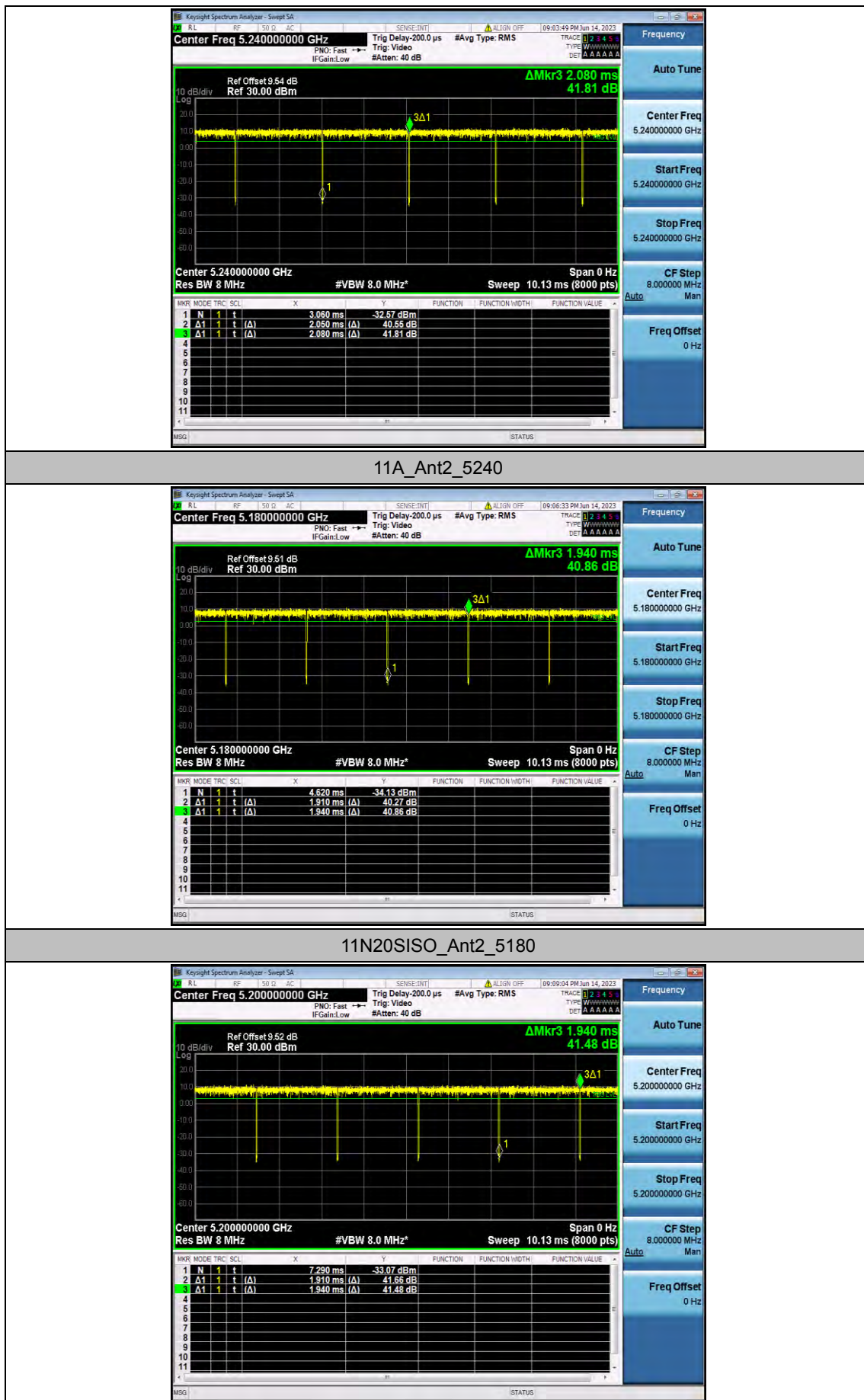
Appendix D.3: Duty Cycle

Test Result

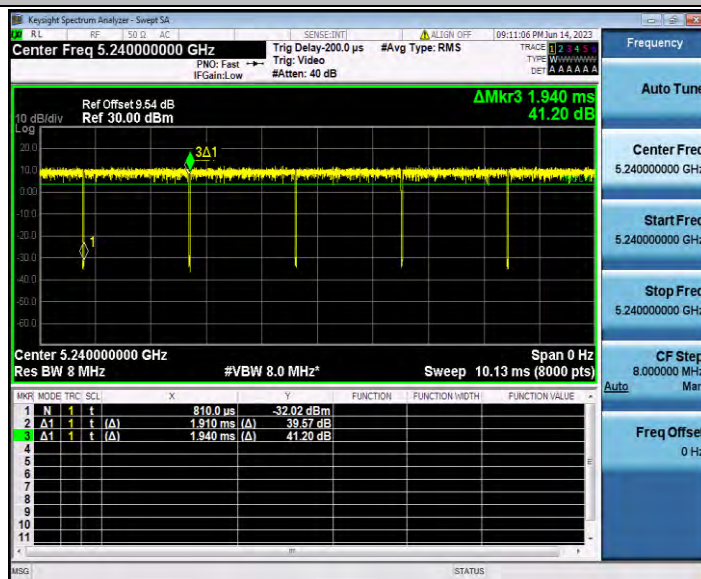
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	2.05	2.08	98.56
		5200	2.04	2.07	98.55
		5240	2.05	2.08	98.56
11N20SISO	Ant2	5180	1.91	1.94	98.45
		5200	1.91	1.94	98.45
		5240	1.91	1.94	98.45
11N40SISO	Ant2	5190	0.93	0.96	96.88
		5230	0.93	0.96	96.88
11AC20SISO	Ant2	5180	1.92	1.95	98.46
		5200	1.92	1.95	98.46
		5240	1.92	1.94	98.97
11AC40SISO	Ant2	5190	0.94	0.97	96.91
		5230	0.95	0.97	97.94
11AC80SISO	Ant2	5210	0.44	0.47	93.62

Test Graphs

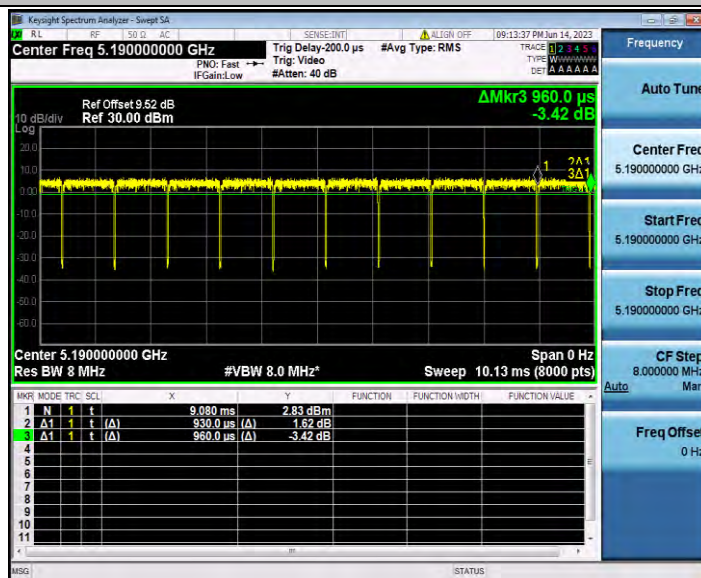




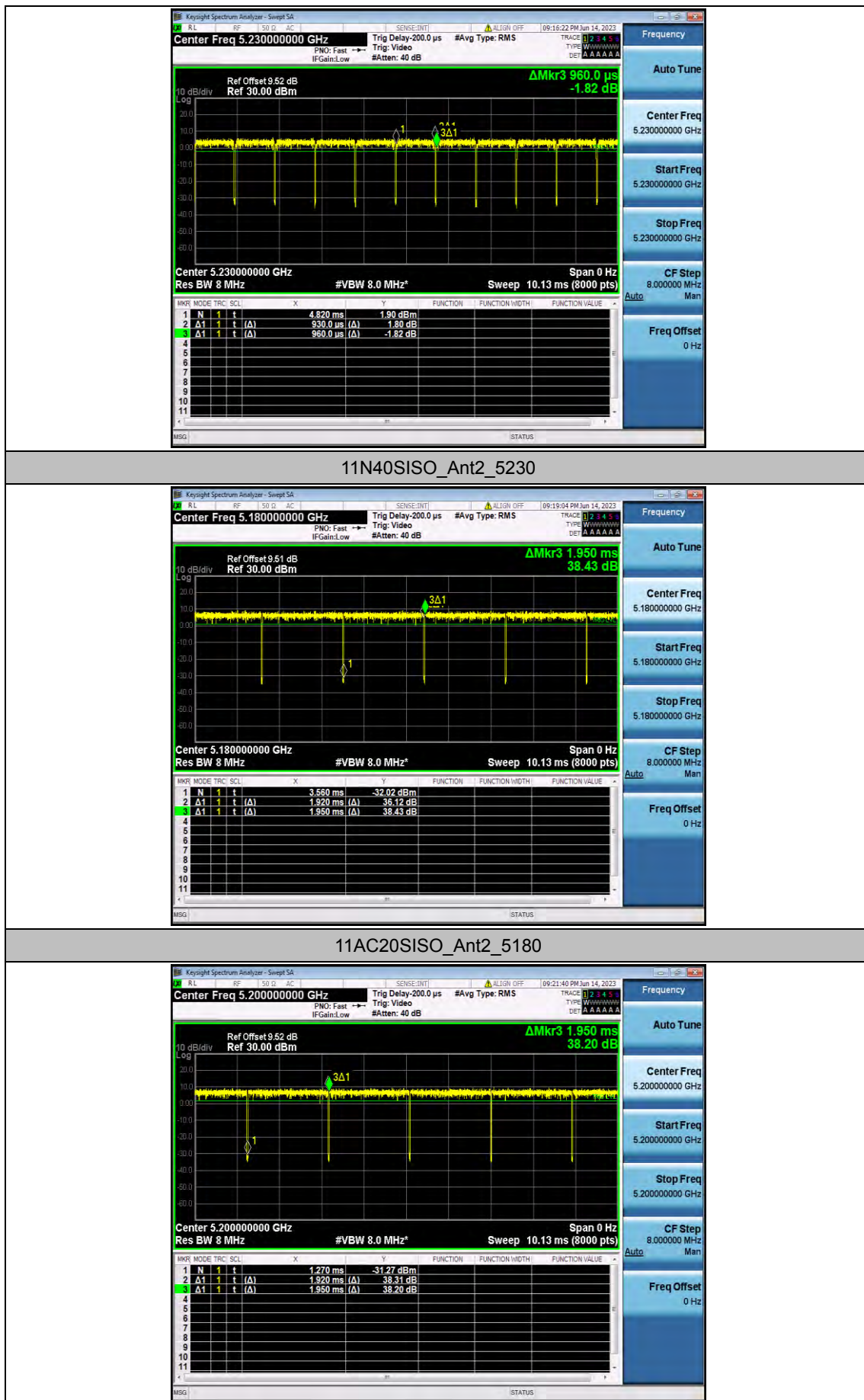
11N20SISO_Ant2_5200



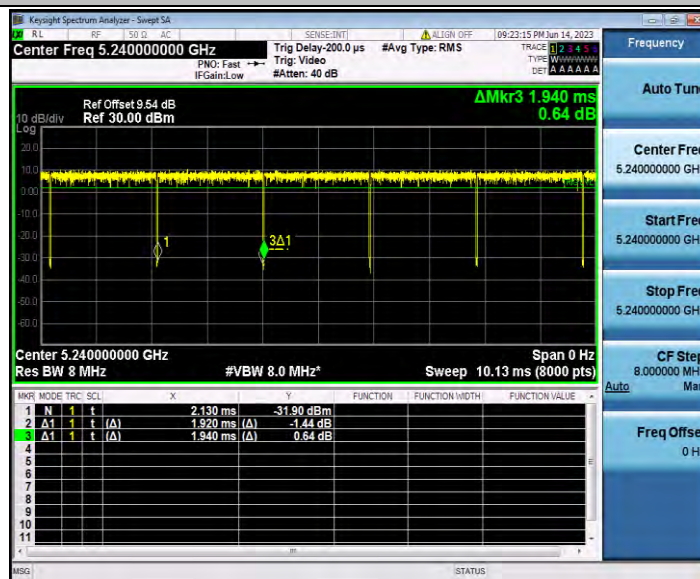
11N20SISO_Ant2_5240



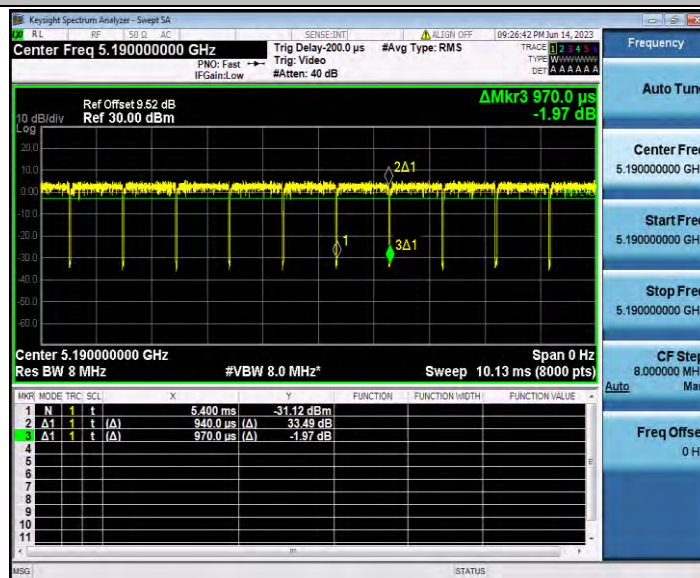
11N40SISO_Ant2_5190



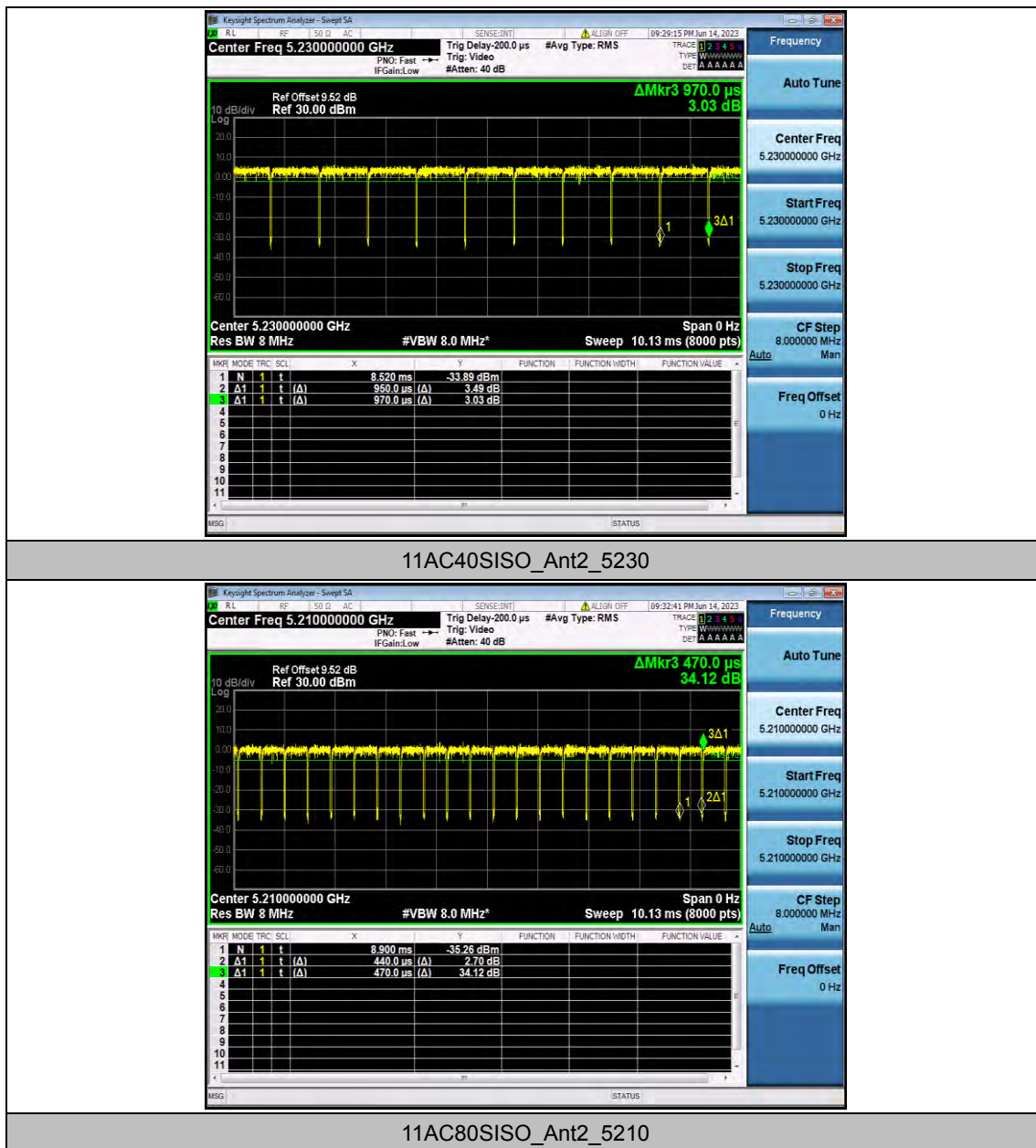
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	10.06	98.56	0.06	10.12	≤23.98	PASS
		5200	11.29	98.55	0.06	11.35	≤23.98	PASS
		5240	11.88	98.56	0.06	11.94	≤23.98	PASS
11N20SISO	Ant2	5180	10.77	98.45	0.07	10.84	≤23.98	PASS
		5200	11.11	98.45	0.07	11.18	≤23.98	PASS
		5240	11.74	98.45	0.07	11.81	≤23.98	PASS
11N40SISO	Ant2	5190	10.60	96.88	0.14	10.74	≤23.98	PASS
		5230	9.77	96.88	0.14	9.91	≤23.98	PASS
11AC20SISO	Ant2	5180	9.21	98.46	0.07	9.28	≤23.98	PASS
		5200	9.57	98.46	0.07	9.64	≤23.98	PASS
		5240	10.22	98.97	0.04	10.26	≤23.98	PASS
11AC40SISO	Ant2	5190	9.07	96.91	0.14	9.21	≤23.98	PASS
		5230	9.68	97.94	0.09	9.77	≤23.98	PASS
11AC80SISO	Ant2	5210	9.31	93.62	0.29	9.60	≤23.98	PASS

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

Appendix D.5: Maximum power spectral density

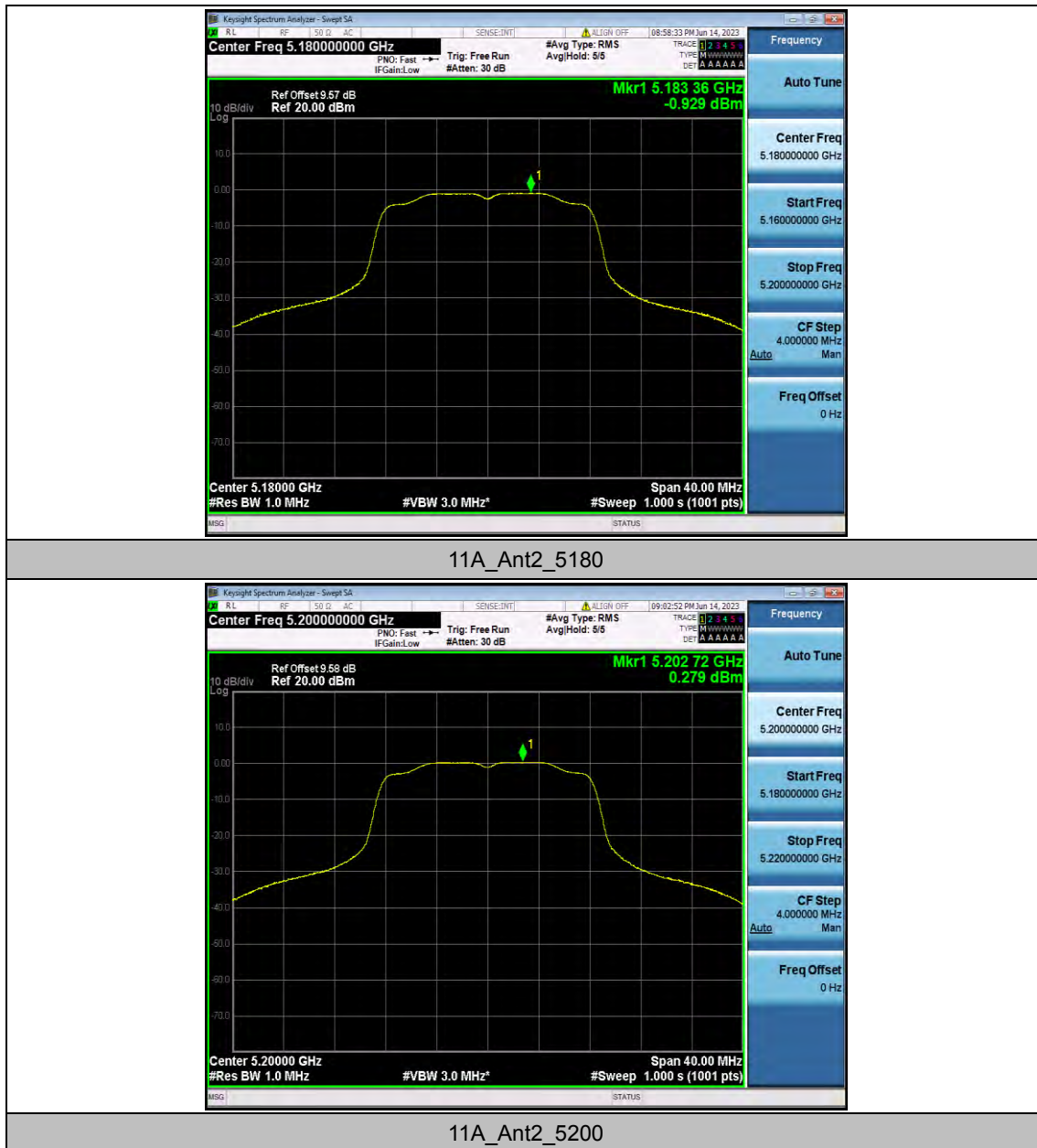
Test Result

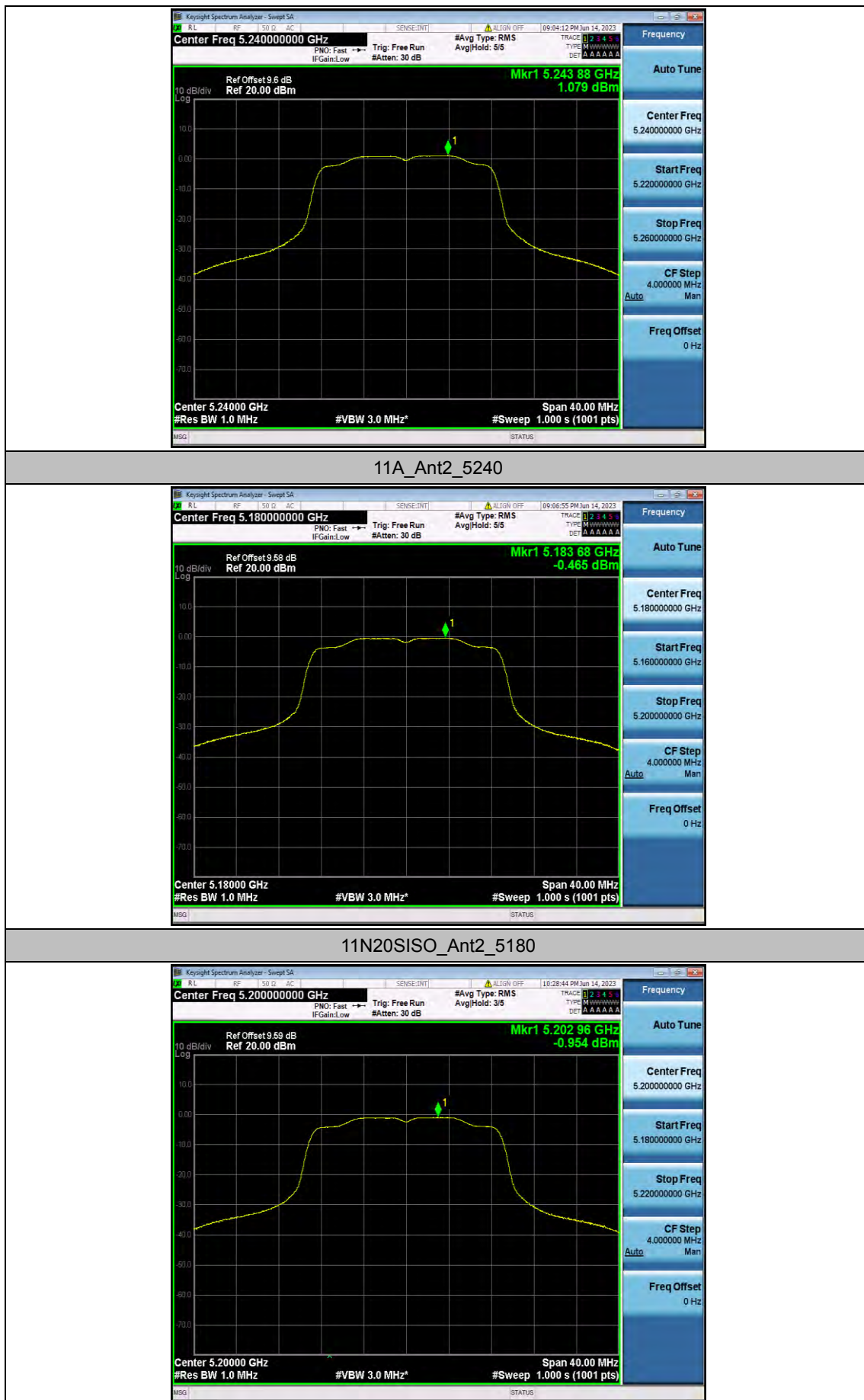
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	-0.93	≤11.00	PASS
		5200	0.28	≤11.00	PASS
		5240	1.08	≤11.00	PASS
11N20SISO	Ant2	5180	-0.47	≤11.00	PASS
		5200	-0.97	≤11.00	PASS
		5240	1.19	≤11.00	PASS
11N40SISO	Ant2	5190	-3.65	≤11.00	PASS
		5230	-4.39	≤11.00	PASS
11AC20SISO	Ant2	5180	-2.01	≤11.00	PASS
		5200	-1.56	≤11.00	PASS
		5240	-0.83	≤11.00	PASS
11AC40SISO	Ant2	5190	-5.13	≤11.00	PASS
		5230	-4.41	≤11.00	PASS
11AC80SISO	Ant2	5210	-7.46	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

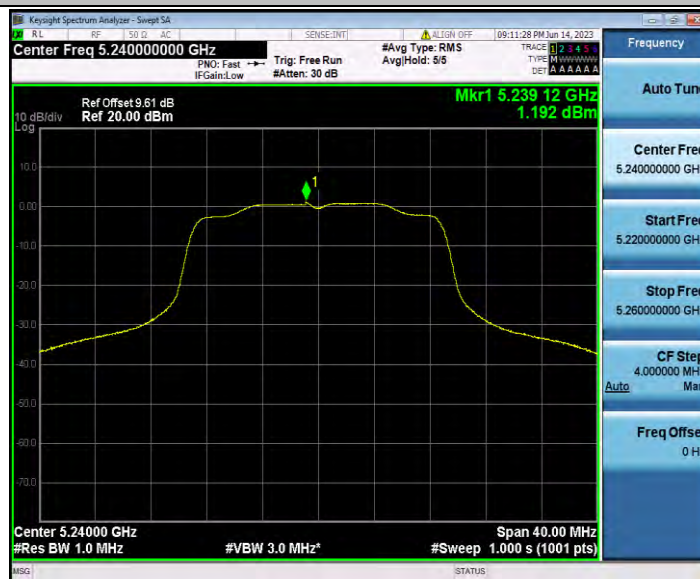
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs





11N20SISO_Ant2_5200



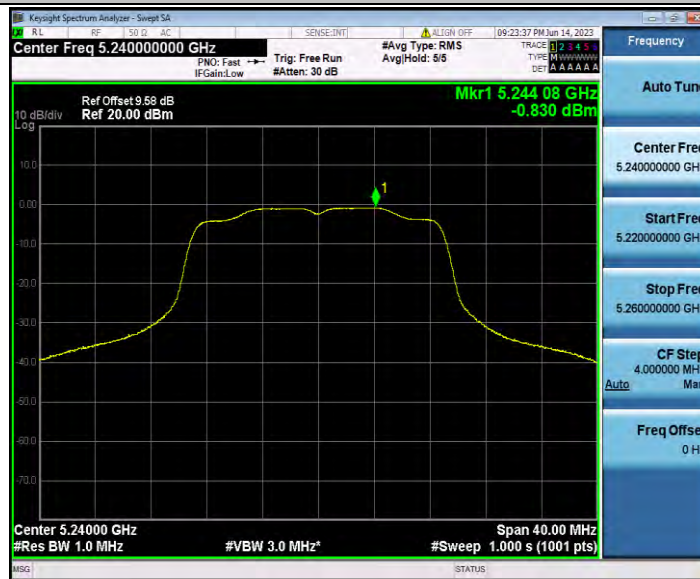
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



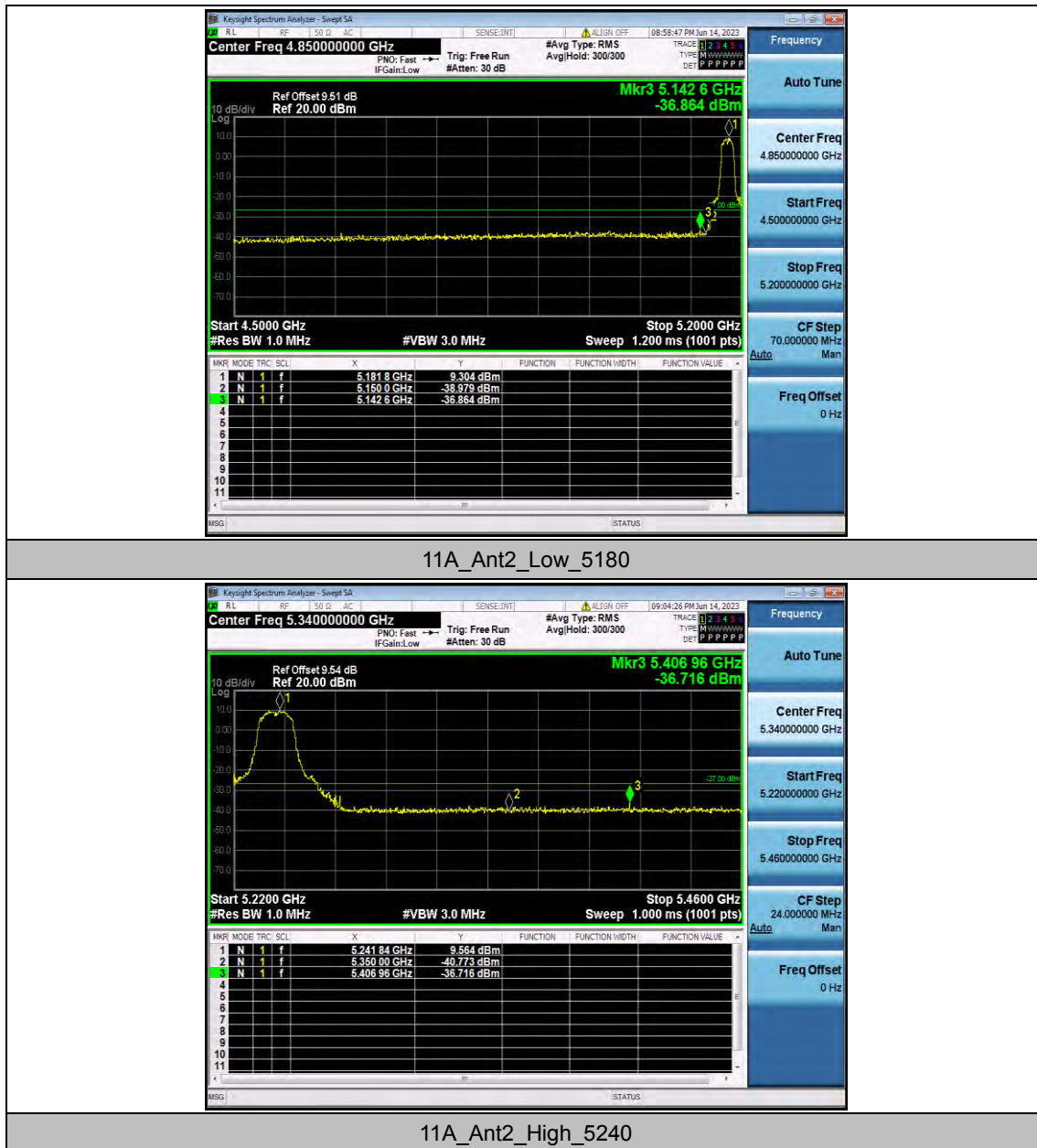
11AC80SISO_Ant2_5210

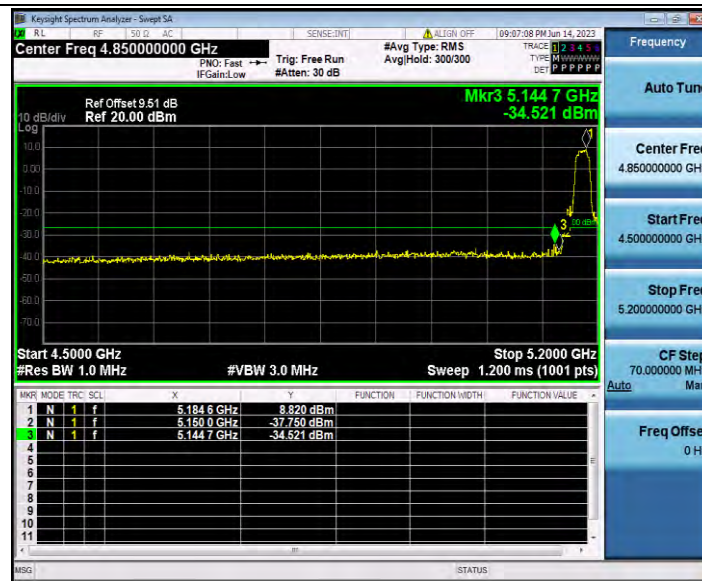
Appendix D.6: Band edge measurements

Test Result B1

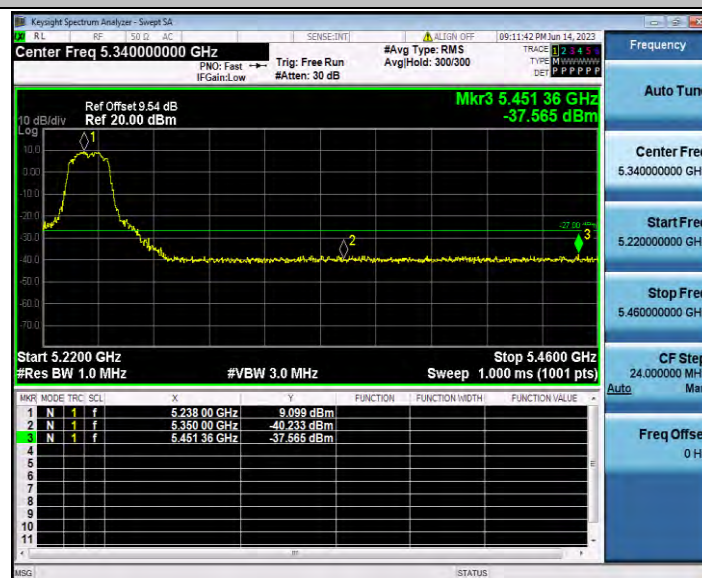
Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-36.86	≤ -27	PASS
		High	5240	-36.72	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-34.52	≤ -27	PASS
		High	5240	-37.57	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-37.2	≤ -27	PASS
		High	5230	-38	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-37.18	≤ -27	PASS
		High	5240	-37.98	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-29.26	≤ -27	PASS
		High	5230	-37.61	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-34.52	≤ -27	PASS
		High	5210	-36.84	≤ -27	PASS

Test Graphs B1

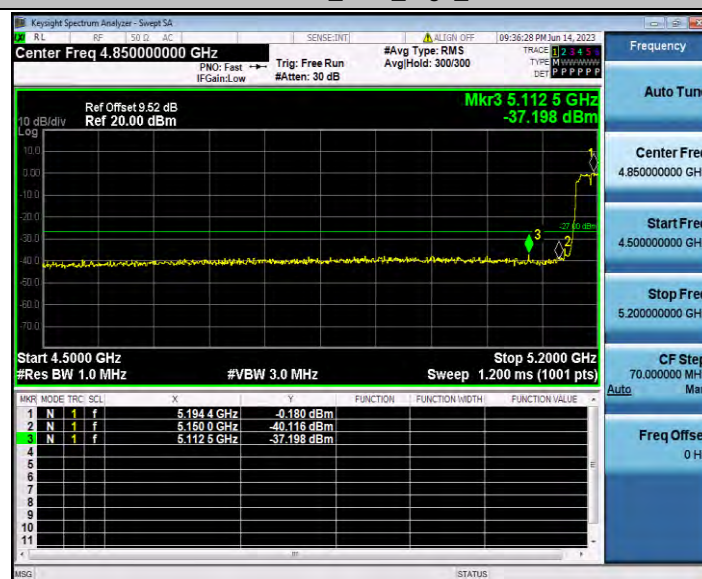




11N20SISO_Ant2_Low_5180



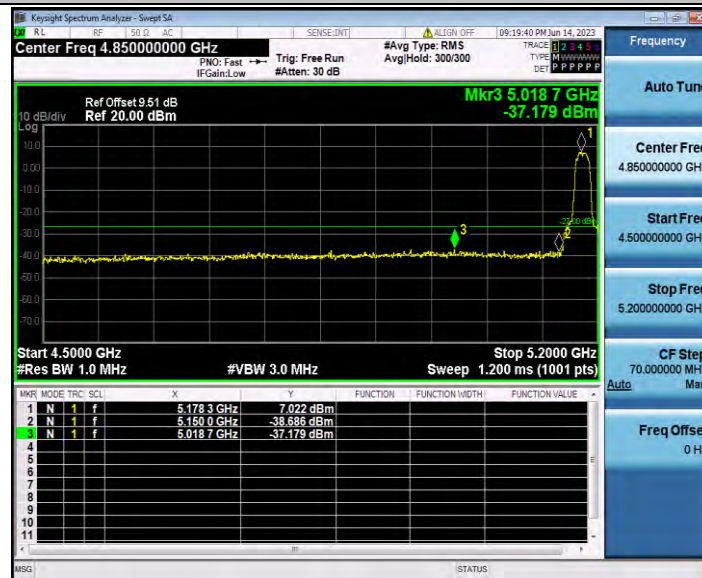
11N20SISO_Ant2_High_5240



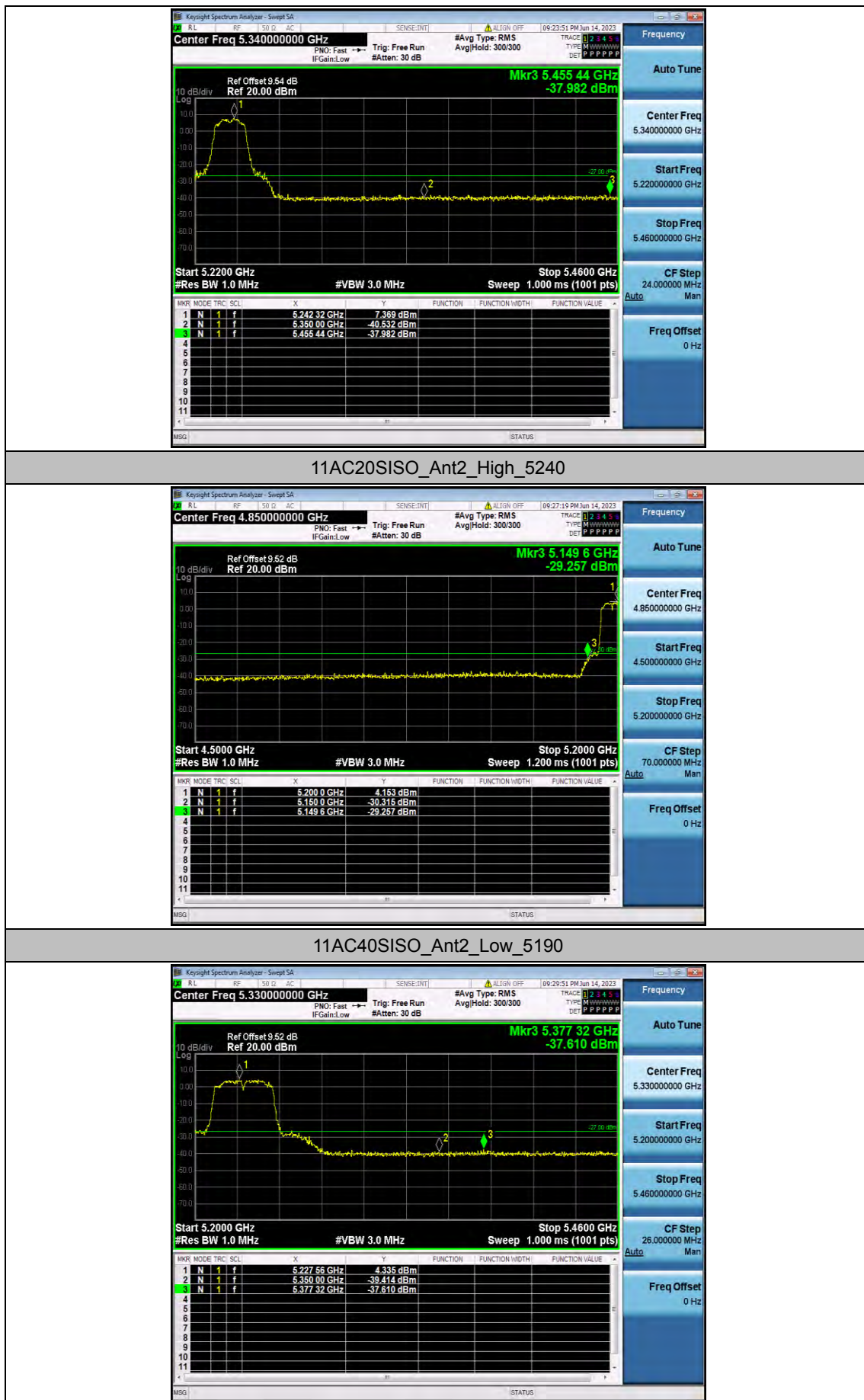
11N40SISO_Ant2_Low_5190



11N40SISO_Ant2_High_5230



11AC20SISO_Ant2_Low_5180

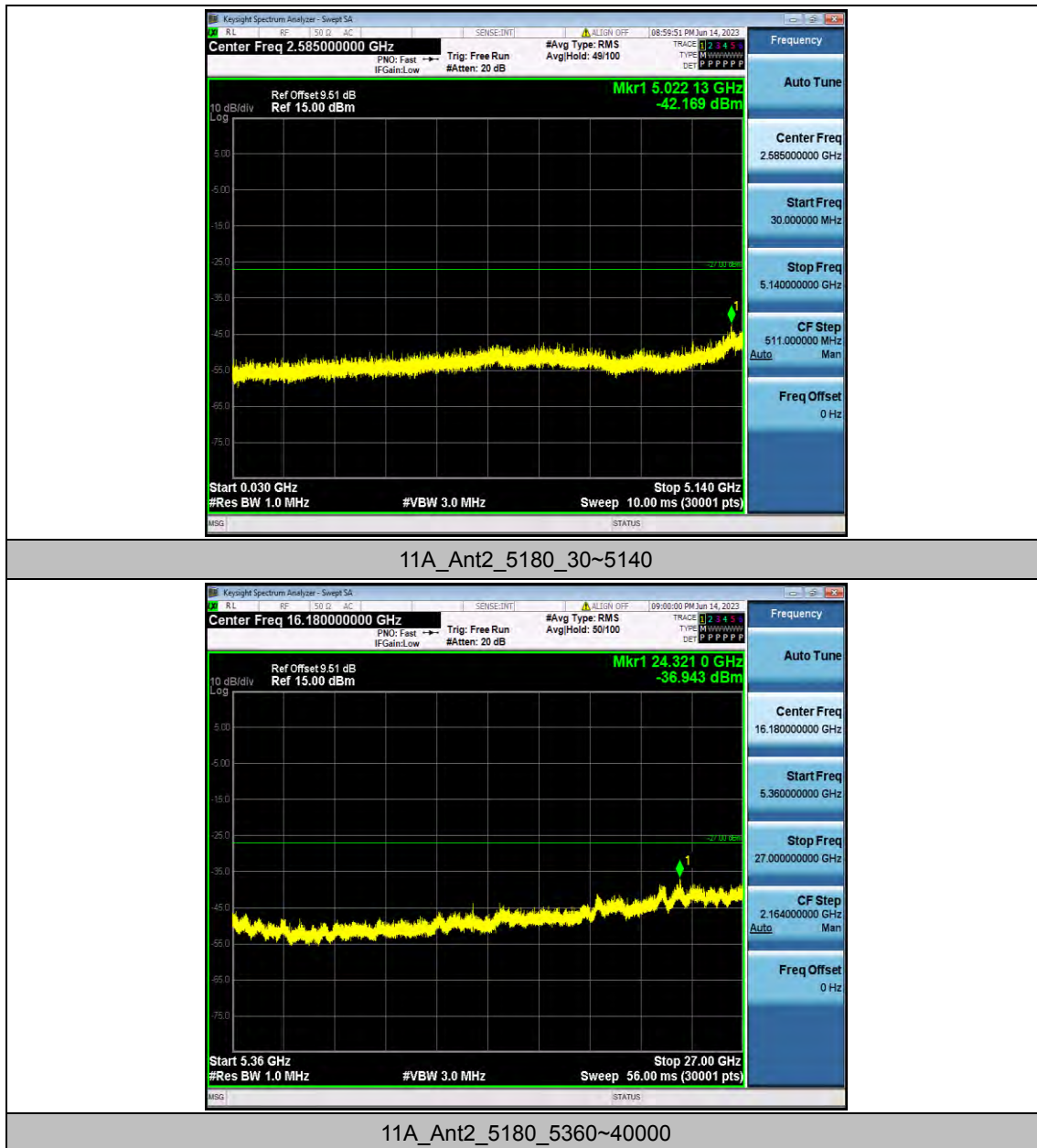


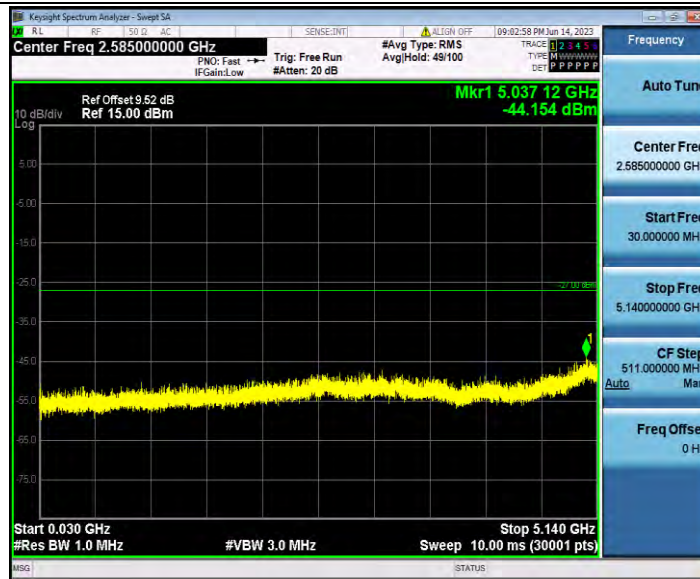
Appendix D.7: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5022.13	-42.17	≤-27	PASS
			5360~40000	24320.97	-36.94	≤-27	PASS
		5200	30~5140	5037.12	-44.15	≤-27	PASS
			5360~40000	25664.09	-38.45	≤-27	PASS
		5240	30~5140	5132.85	-44.88	≤-27	PASS
			5360~40000	26045.68	-37.06	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5135.06	-41.39	≤-27	PASS
			5360~40000	24121.88	-37.08	≤-27	PASS
		5200	30~5140	5140	-43.78	≤-27	PASS
			5360~40000	26855.01	-37.56	≤-27	PASS
		5240	30~5140	5077.49	-44.98	≤-27	PASS
			5360~40000	24316.64	-36.71	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5138.64	-37.41	≤-27	PASS
			5360~40000	24804.98	-38.06	≤-27	PASS
		5230	30~5140	5105.42	-45.35	≤-27	PASS
			5360~40000	24163	-38.33	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	5126.71	-44.39	≤-27	PASS
			5360~40000	24214.21	-37.87	≤-27	PASS
		5200	30~5140	5043.42	-45.13	≤-27	PASS
			5360~40000	23483.5	-37.85	≤-27	PASS
		5240	30~5140	4955.53	-45.04	≤-27	PASS
			5360~40000	24219.26	-37.59	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5140	-43.42	≤-27	PASS
			5360~40000	24154.34	-38.43	≤-27	PASS
		5230	30~5140	5081.58	-44.81	≤-27	PASS
			5360~40000	24240.18	-38.29	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5139.66	-30.33	≤-27	PASS
			5360~40000	24248.83	-37.54	≤-27	PASS

Test Graphs

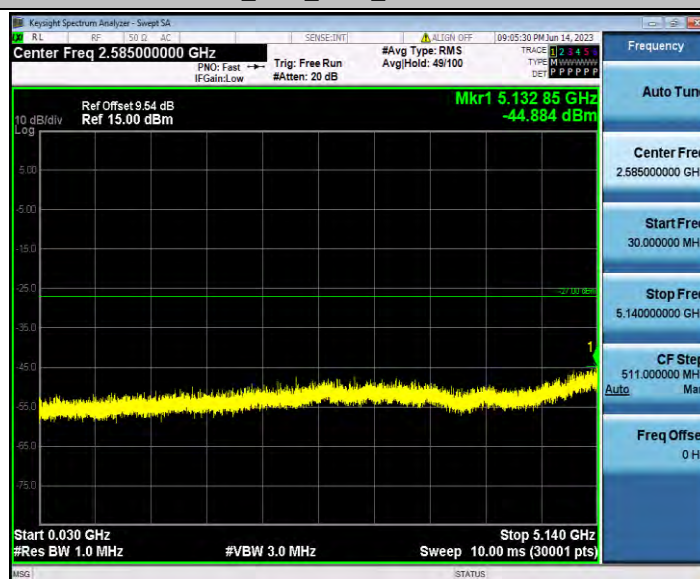




11A_Ant2_5200_30~5140



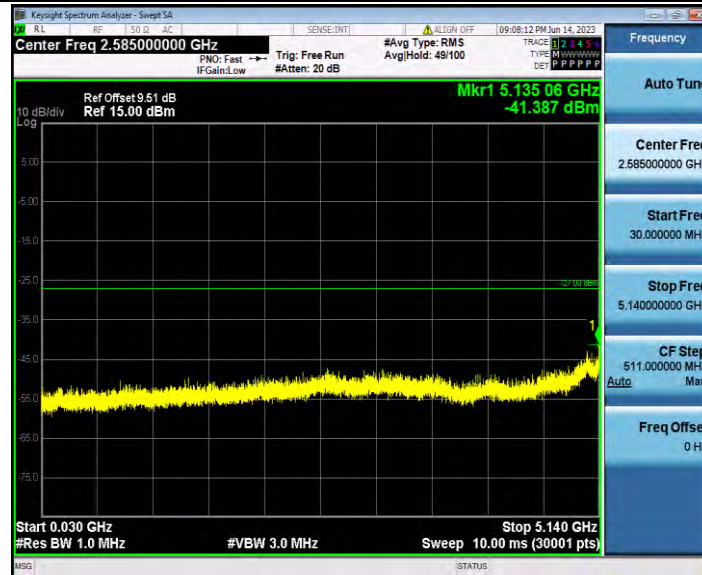
11A_Ant2_5200_5360~40000



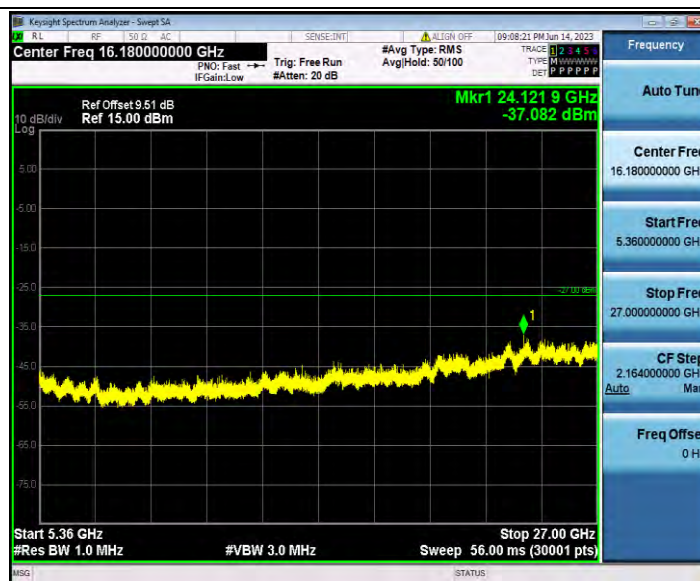
11A_Ant2_5240_30~5140



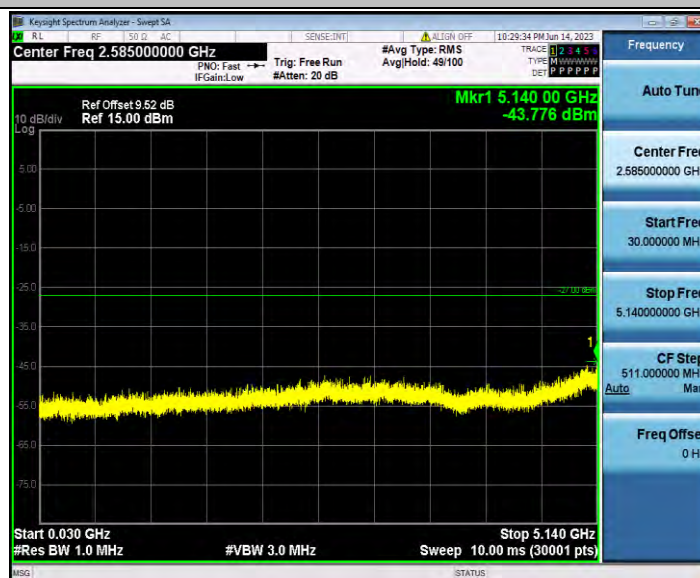
11A_Ant2_5240_5360~40000



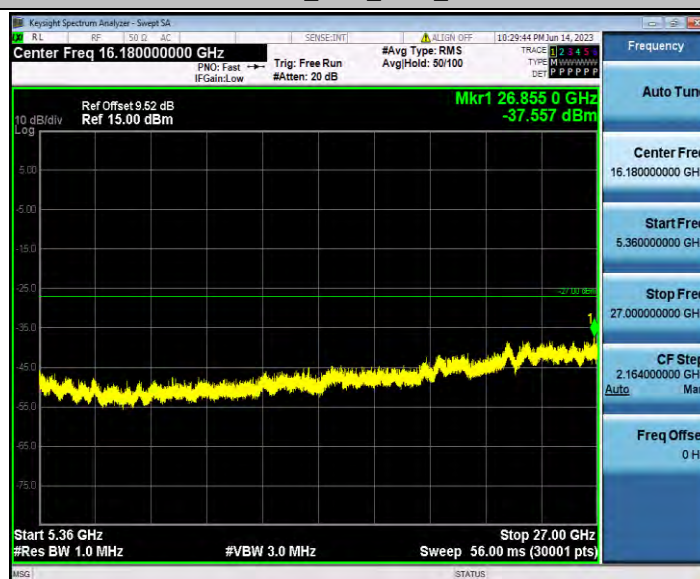
11N20SISO_Ant2_5180_30~5140



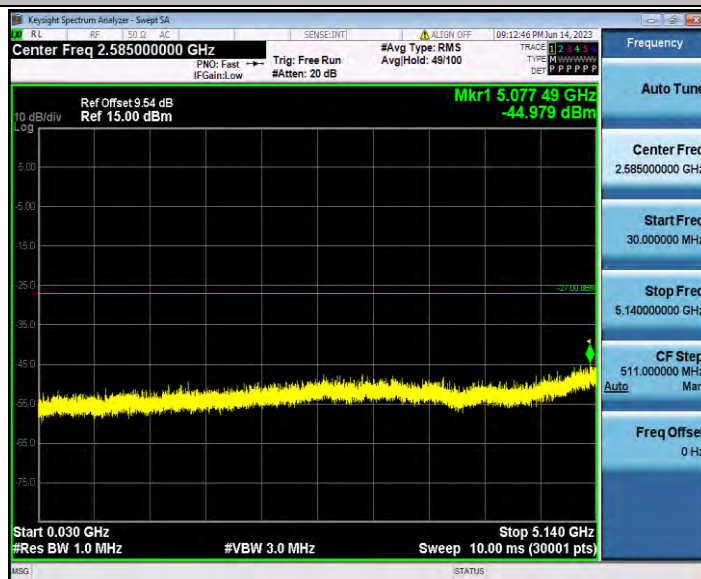
11N20SISO_Ant2_5180_5360~40000



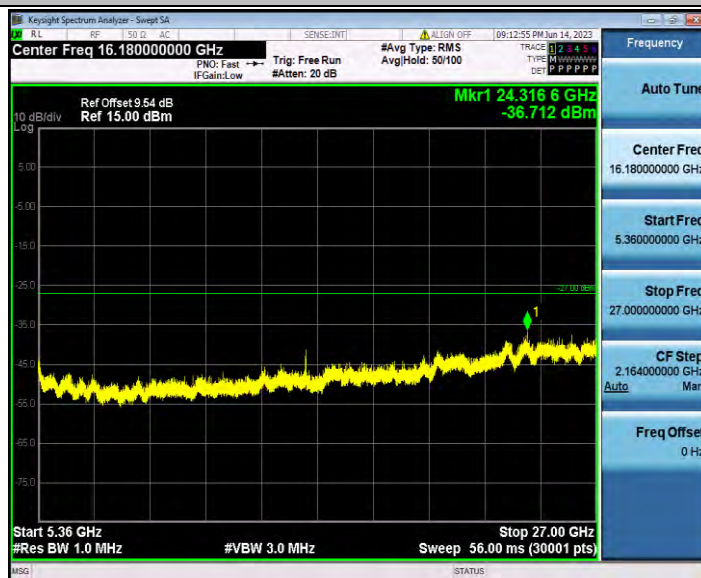
11N20SISO_Ant2_5200_30~5140



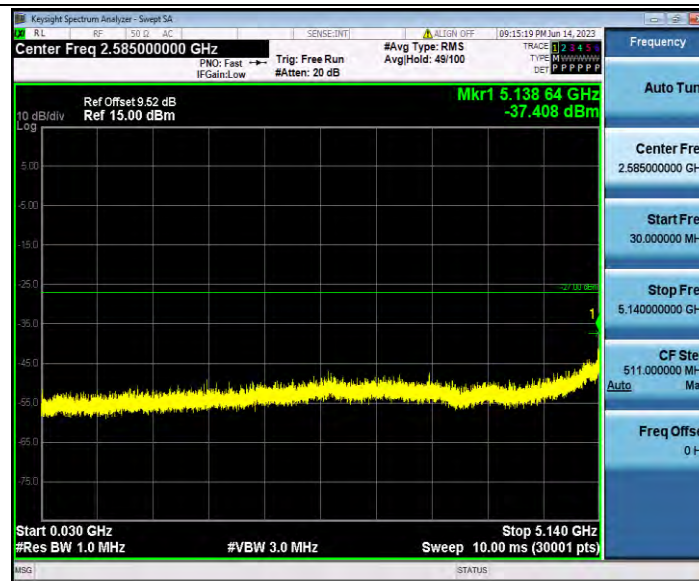
11N20SISO_Ant2_5200_5360~40000



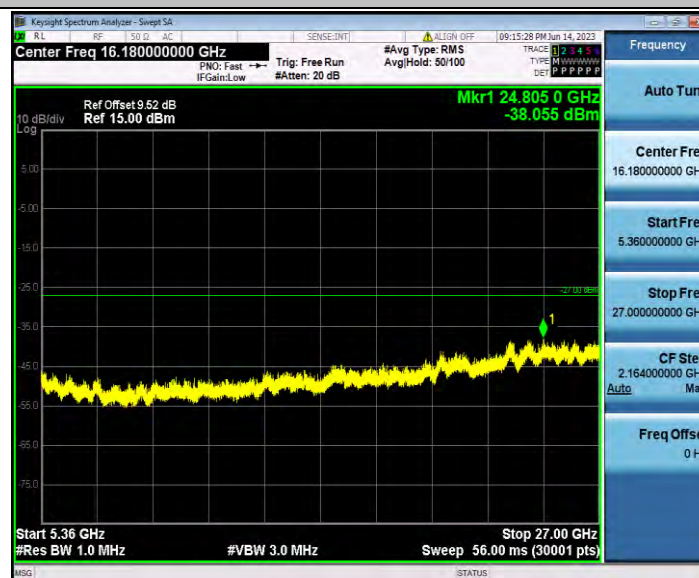
11N20SISO_Ant2_5240_30~5140



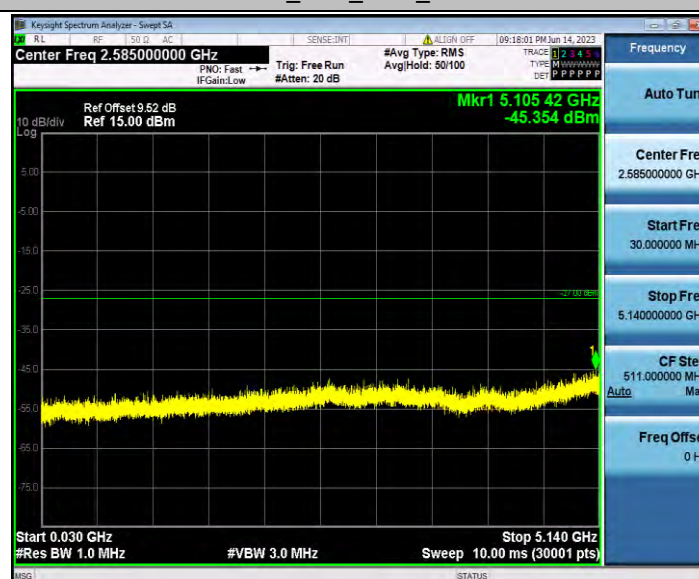
11N20SISO_Ant2_5240_5360~40000



11N40SISO_Ant2_5190_30~5140



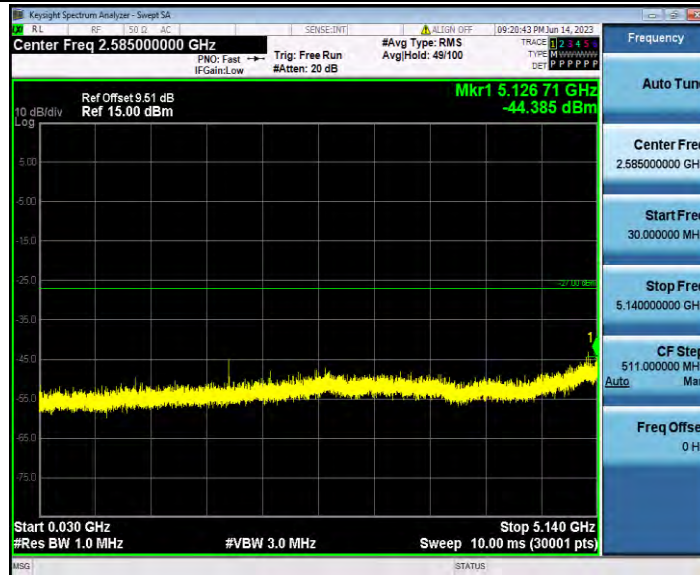
11N40SISO_Ant2_5190_5360~40000



11N40SISO_Ant2_5230_30~5140



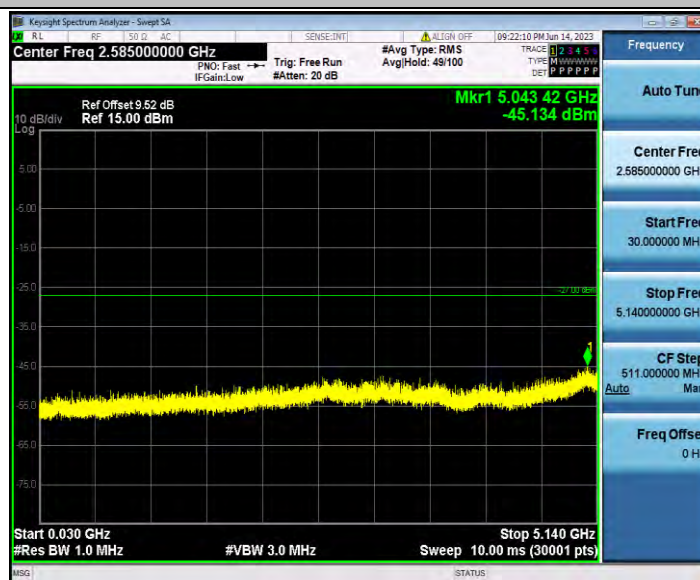
11N40SISO_Ant2_5230_5360~40000



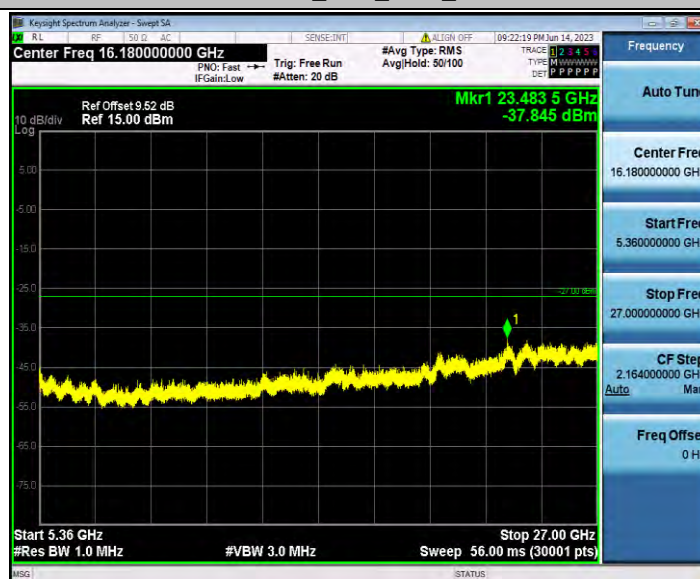
11AC20SISO_Ant2_5180_30~5140



11AC20SISO_Ant2_5180_5360~40000



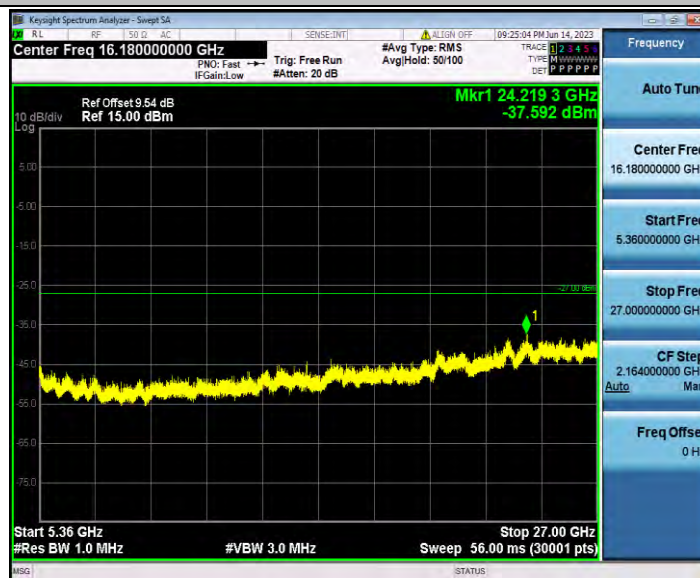
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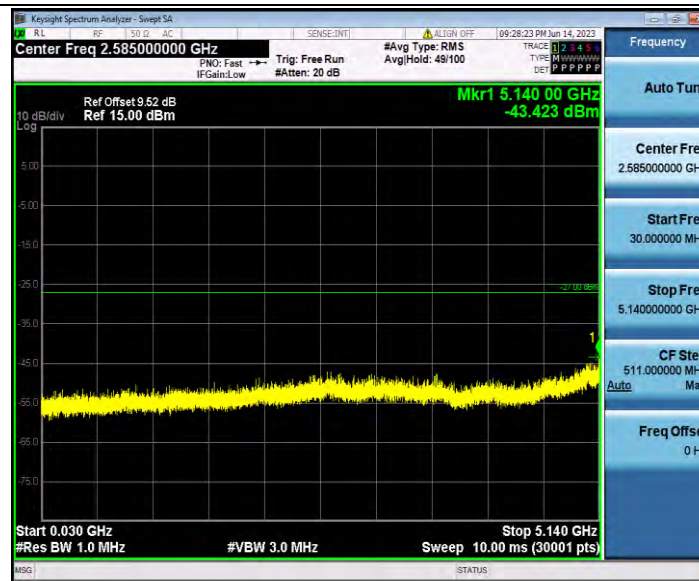
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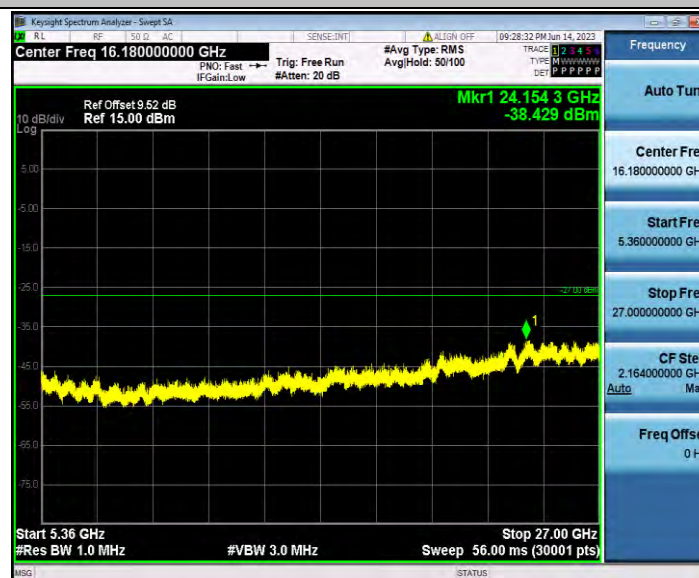
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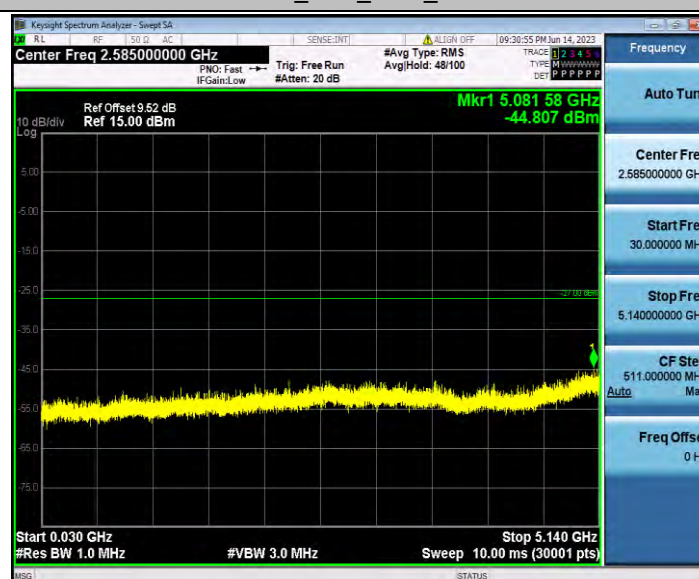
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11AC40SISO_Ant2_5190_30~5140



11AC40SISO_Ant2_5190_5360~40000



11AC40SISO_Ant2_5230_30~5140



11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140

