

Case No. : <u>GTS20250708005-2-04</u>	
Ambient Condition: <u>23</u> °C, <u>54</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2025.7.15-2025.8.04</u>	Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	20.120	5169.880	5190.000	---	---
		5200	20.040	5189.960	5210.000	---	---
		5240	20.120	5229.920	5250.040	---	---
11N20SISO	Ant0	5180	20.320	5169.800	5190.120	---	---
		5200	20.240	5189.920	5210.160	---	---
		5240	20.160	5229.960	5250.120	---	---
11N40SISO	Ant0	5190	40.480	5169.840	5210.320	---	---
		5230	41.200	5209.440	5250.640	---	---
11AC20SISO	Ant0	5180	20.360	5169.840	5190.200	---	---
		5200	20.560	5189.800	5210.360	---	---
		5240	20.440	5229.880	5250.320	---	---
11AC40SISO	Ant0	5190	40.640	5169.600	5210.240	---	---
		5230	40.560	5209.760	5250.320	---	---
11AC80SISO	Ant0	5210	80.960	5169.840	5250.800	---	---

Test Graphs



11A_Ant0_5200

Frequency
Auto Tune
Center Freq 5.20000000 GHz
Start Freq 5.180000000 GHz
Stop Freq 5.220000000 GHz
CF Step 4.000000 MHz
Freq Offset 0 Hz

11A_Ant0_5240



11N20SISO_Ant0_5180



11N20SISO_Ant0_5200



11N20SISO_Ant0_5240



11N40SISO_Ant0_5190



11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180



11AC20SISO_Ant0_5200



11AC20SISO_Ant0_5240



11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210

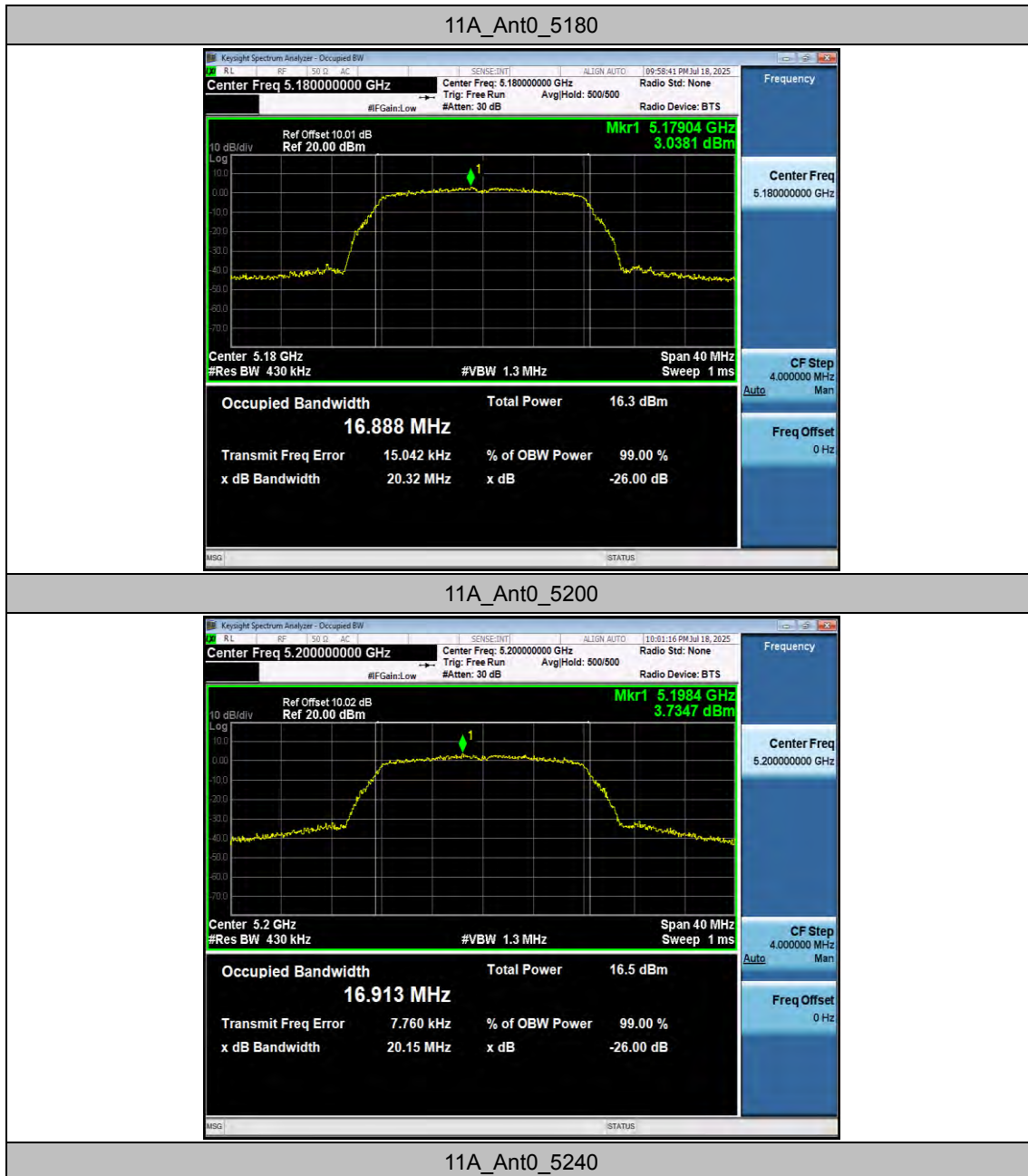


Appendix D.2: Occupied channel bandwidth

Test Result

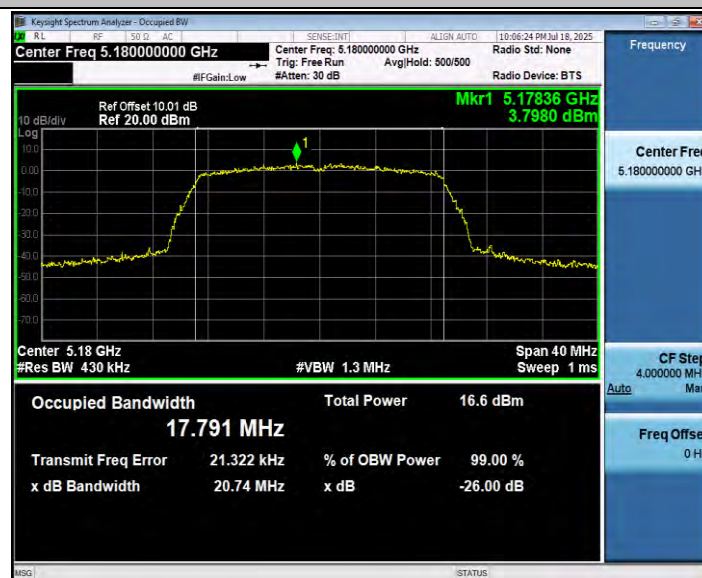
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	16.888	5171.5710	5188.4590	---	---
		5200	16.913	5191.5513	5208.4643	---	---
		5240	16.904	5231.5568	5248.4608	---	---
11N20SISO	Ant0	5180	17.791	5171.1258	5188.9168	---	---
		5200	17.842	5191.1060	5208.9480	---	---
		5240	17.872	5231.0532	5248.9252	---	---
11N40SISO	Ant0	5190	36.291	5171.9318	5208.2228	---	---
		5230	36.299	5211.8287	5248.1277	---	---
11AC20SISO	Ant0	5180	17.871	5171.0721	5188.9431	---	---
		5200	17.908	5191.0691	5208.9771	---	---
		5240	17.863	5231.0749	5248.9379	---	---
11AC40SISO	Ant0	5190	36.308	5171.9157	5208.2237	---	---
		5230	36.289	5211.8887	5248.1777	---	---
11AC80SISO	Ant0	5210	75.392	5172.4320	5247.8240	---	---

Test Graphs





11N20SISO_Ant0_5180



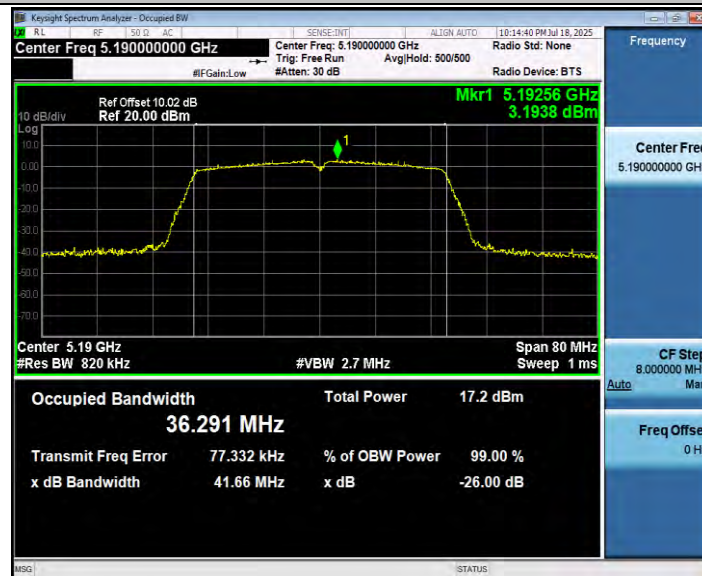
11N20SISO_Ant0_5200



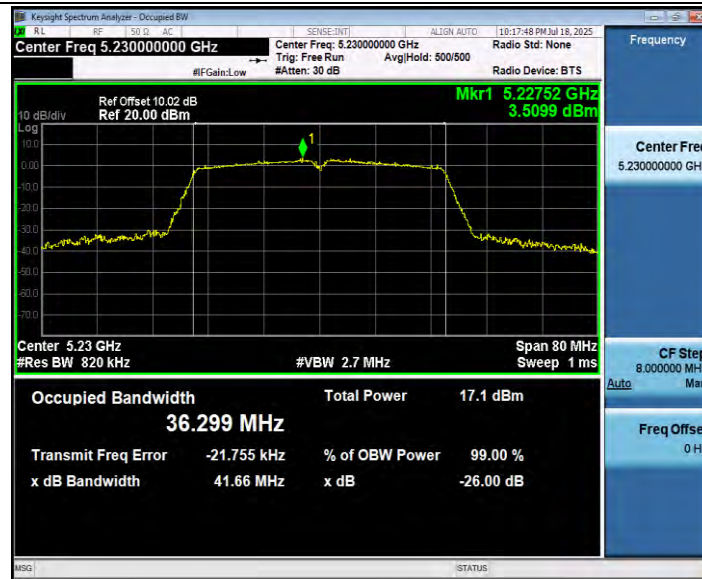
11N20SISO_Ant0_5240



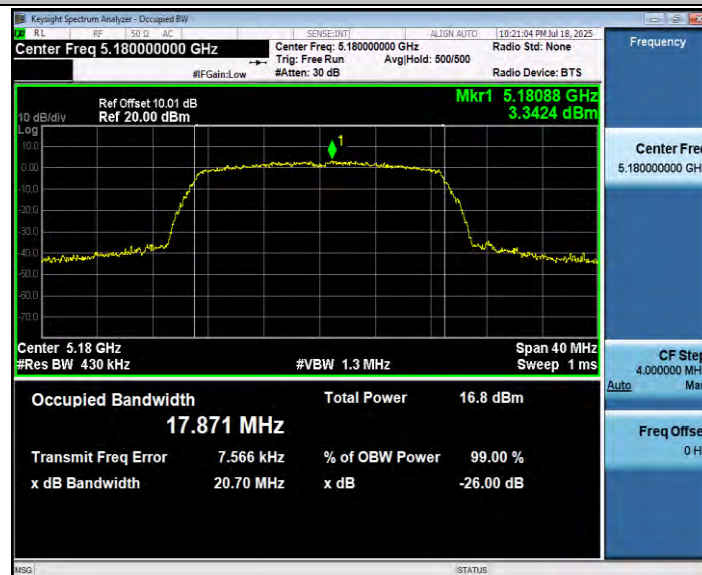
11N40SISO_Ant0_5190



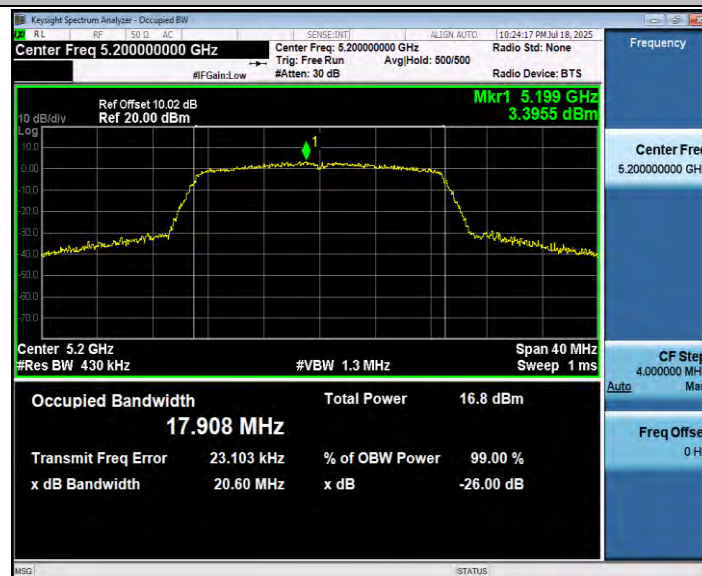
11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180



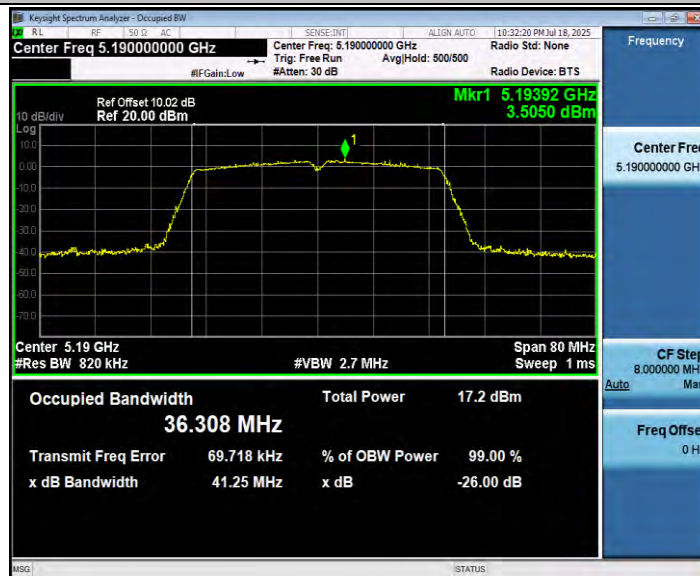
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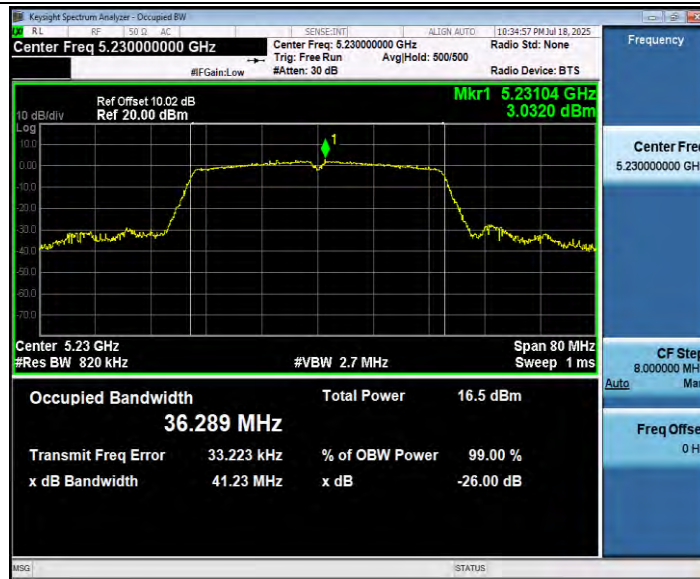
11AC20SISO_Ant0_5240



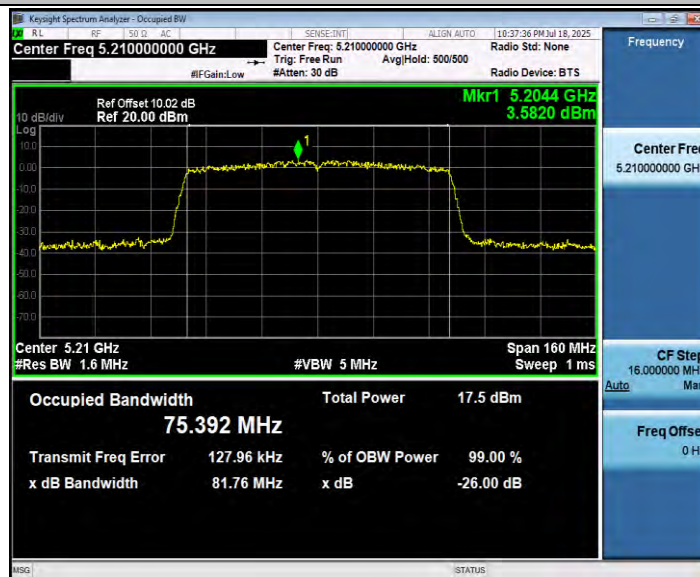
11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210



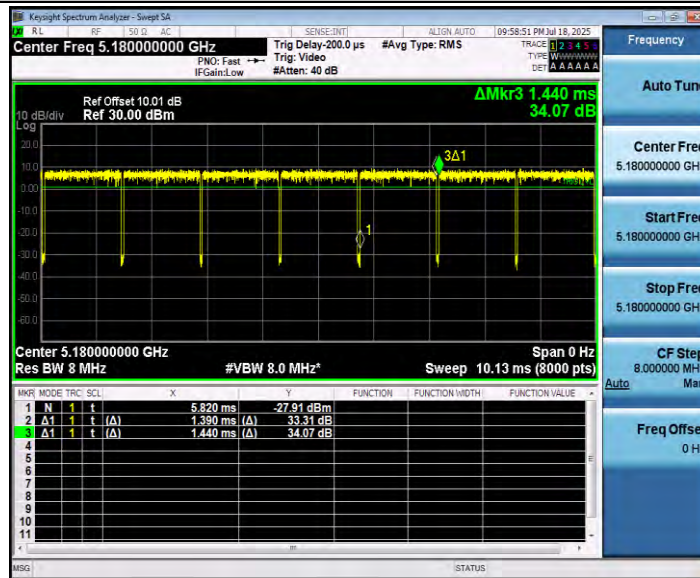
Appendix D.3: Duty Cycle

Test Result

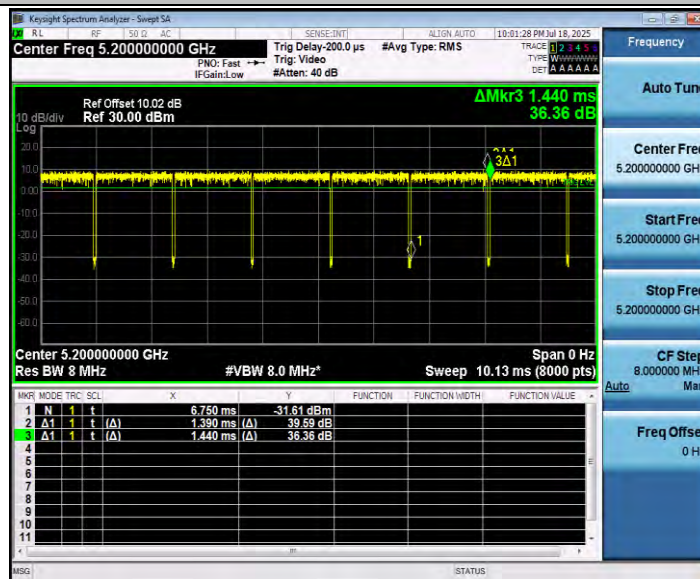
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant0	5180	1.39	1.44	96.53	0.15	0.72
		5200	1.39	1.44	96.53	0.15	0.72
		5240	1.39	1.44	96.53	0.15	0.72
11N20SISO	Ant0	5180	1.30	1.35	96.30	0.16	0.77
		5200	1.30	1.34	97.01	0.13	0.77
		5240	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant0	5190	0.65	0.69	94.20	0.26	1.54
		5230	0.65	0.69	94.20	0.26	1.54
11AC20SISO	Ant0	5180	0.68	0.72	94.44	0.25	1.47
		5200	0.68	0.72	94.44	0.25	1.47
		5240	0.67	0.72	93.06	0.31	1.49
11AC40SISO	Ant0	5190	0.35	0.40	87.50	0.58	2.86
		5230	0.35	0.40	87.50	0.58	2.86
11AC80SISO	Ant0	5210	0.19	0.23	82.61	0.83	5.26

Test Graphs

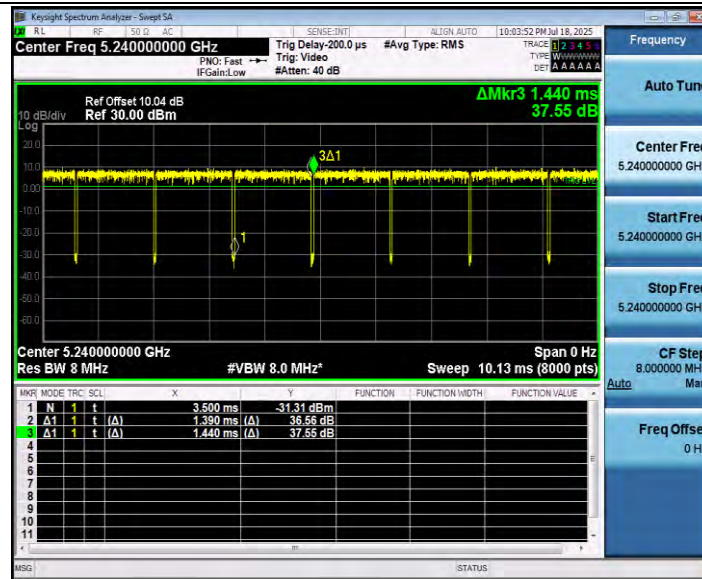
11A_Ant0_5180



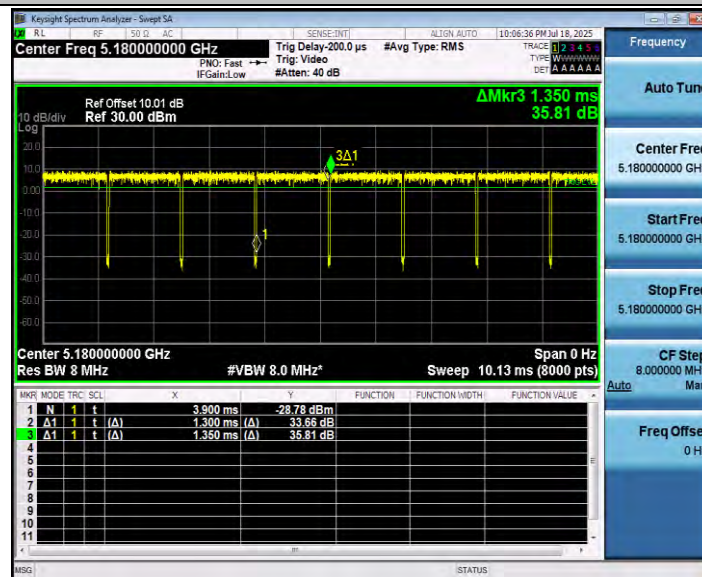
11A_Ant0_5200



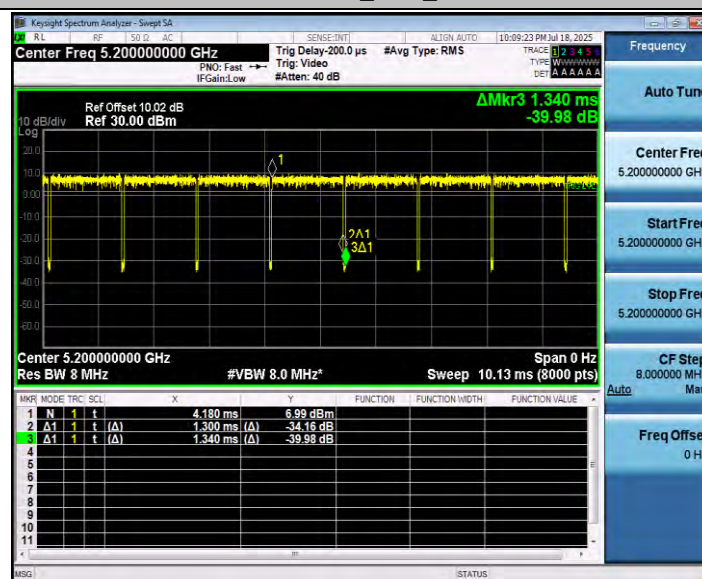
11A_Ant0_5240



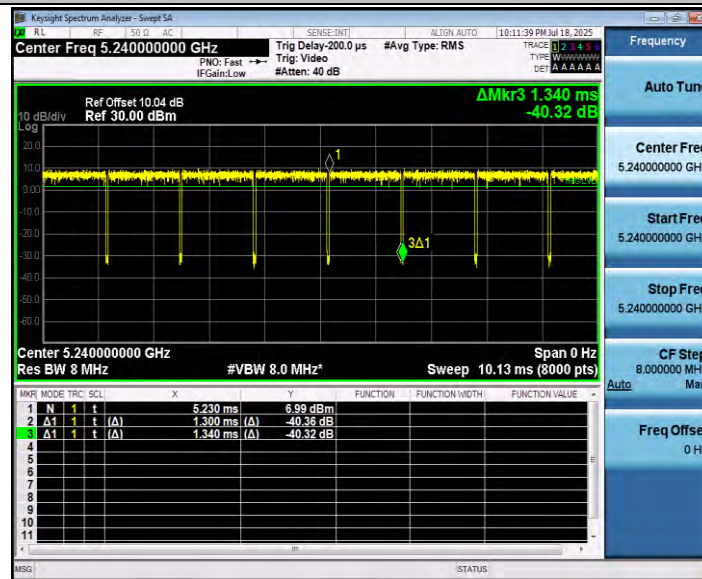
11N20SISO_Ant0_5180



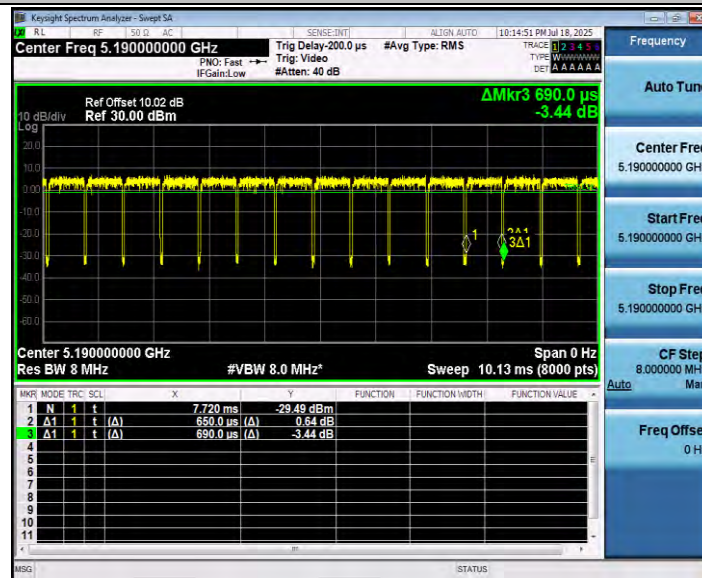
11N20SISO_Ant0_5200



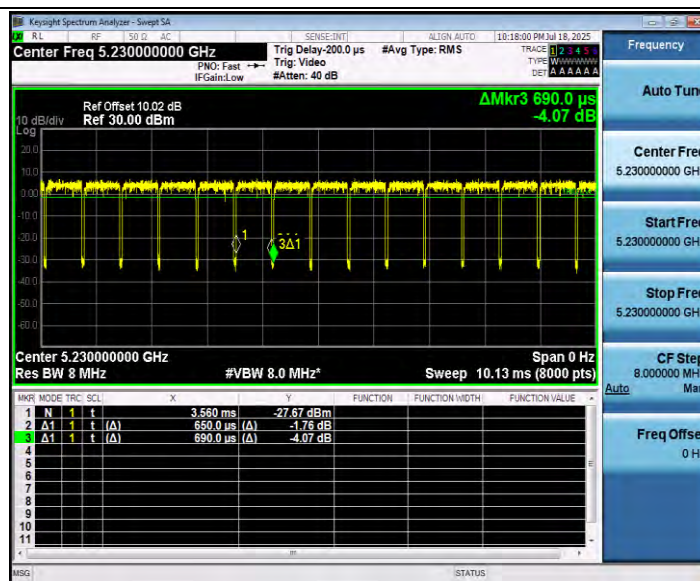
11N20SISO_Ant0_5240



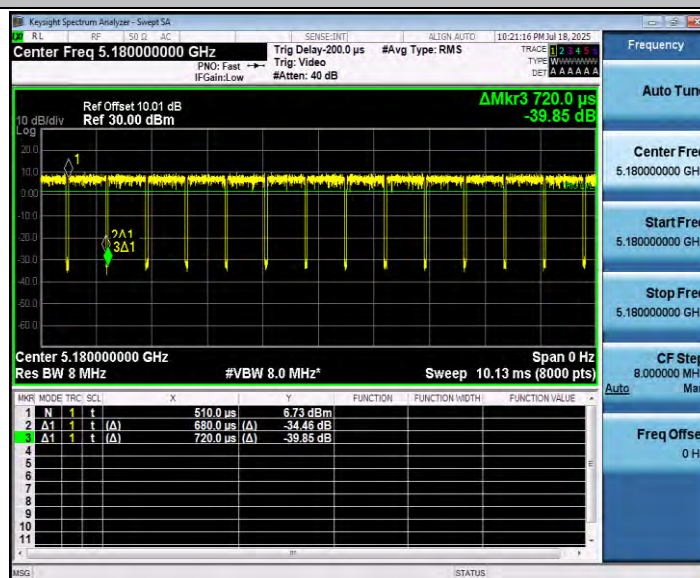
11N40SISO_Ant0_5190



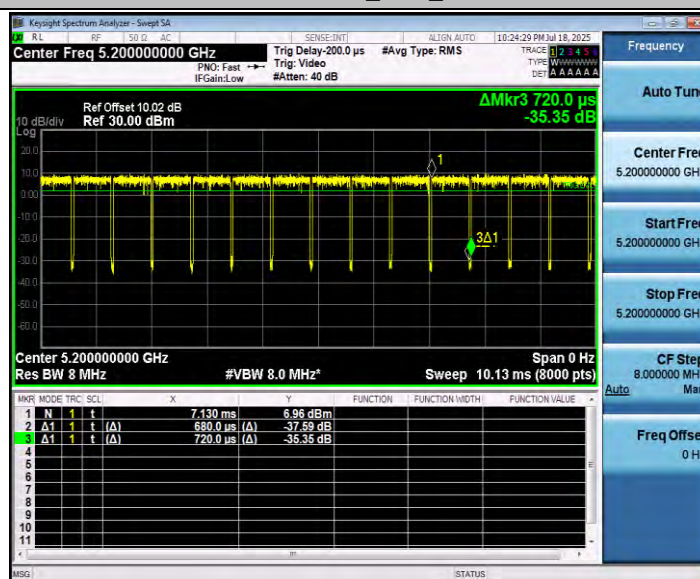
11N40SISO_Ant0_5230



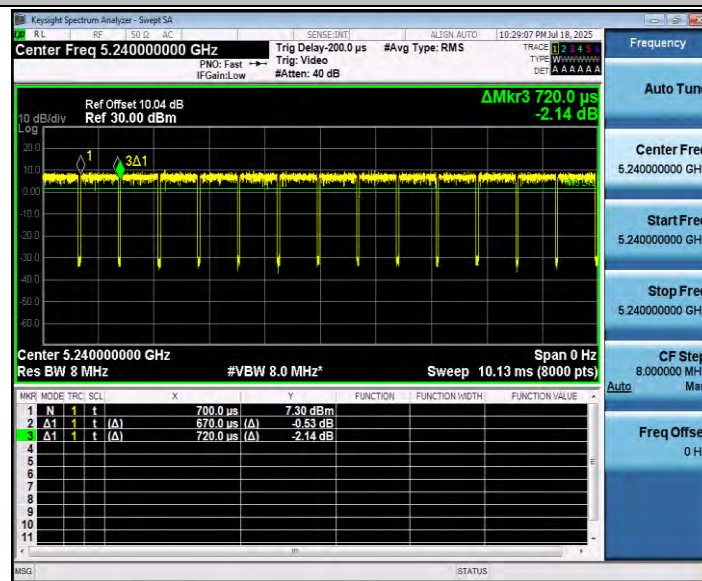
11AC20SISO_Ant0_5180



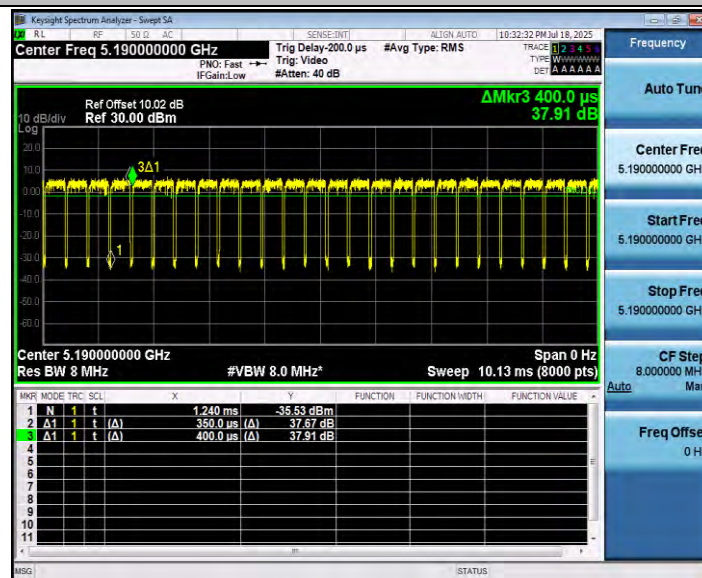
11AC20SISO_Ant0_5200



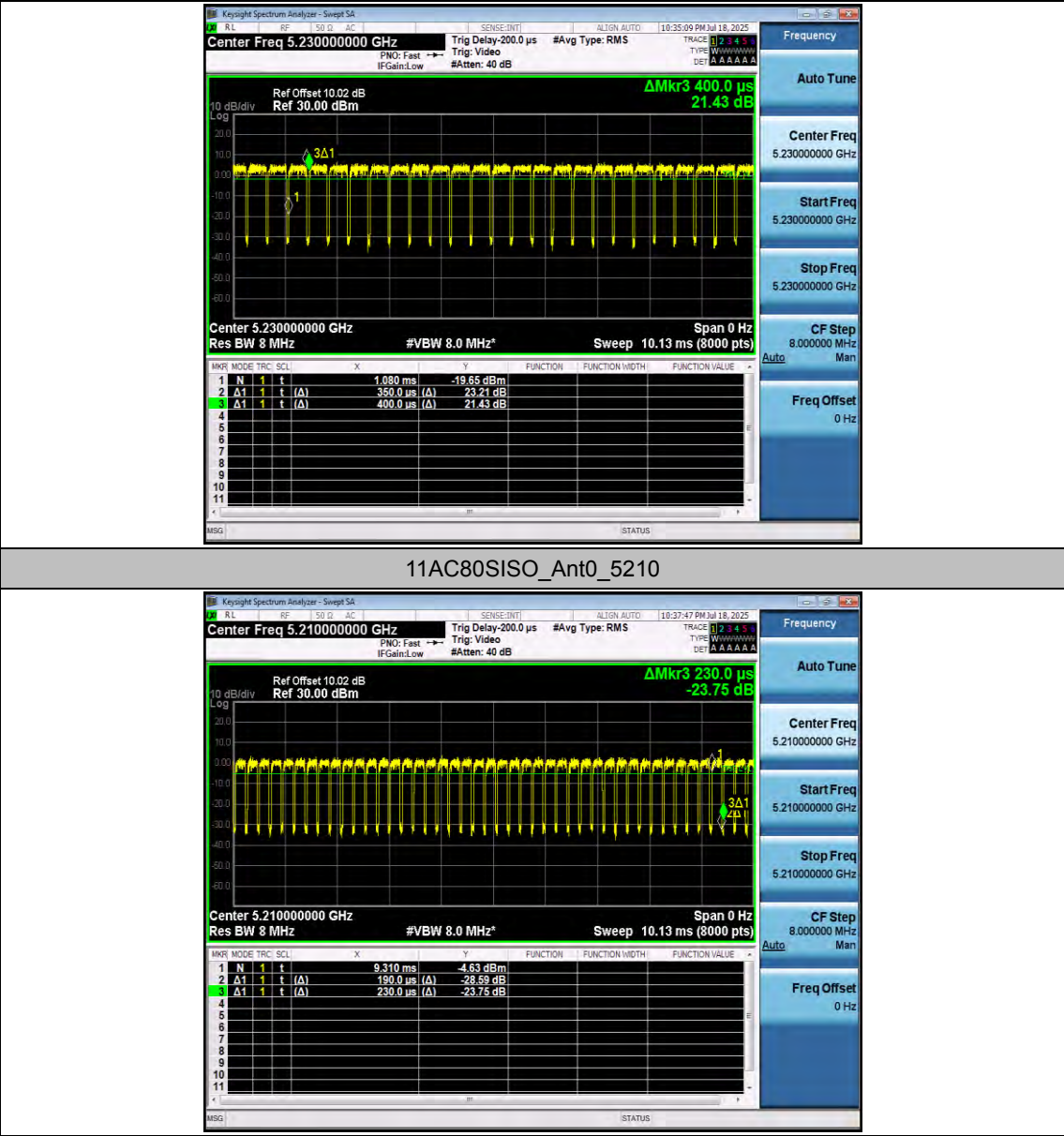
11AC20SISO_Ant0_5240



11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant0	5180	9.33	96.53	0.15	9.48	≤23.98	PASS
		5200	9.54	96.53	0.15	9.69	≤23.98	PASS
		5240	9.26	96.53	0.15	9.41	≤23.98	PASS
11N20SISO	Ant0	5180	9.70	96.30	0.16	9.86	≤23.98	PASS
		5200	9.84	97.01	0.13	9.97	≤23.98	PASS
		5240	9.66	97.01	0.13	9.79	≤23.98	PASS
11N40SISO	Ant0	5190	9.50	94.20	0.26	9.76	≤23.98	PASS
		5230	9.46	94.20	0.26	9.72	≤23.98	PASS
11AC20SISO	Ant0	5180	9.77	94.44	0.25	10.02	≤23.98	PASS
		5200	9.80	94.44	0.25	10.05	≤23.98	PASS
		5240	9.43	93.06	0.31	9.74	≤23.98	PASS
11AC40SISO	Ant0	5190	8.88	87.50	0.58	9.46	≤23.98	PASS
		5230	8.65	87.50	0.58	9.23	≤23.98	PASS
11AC80SISO	Ant0	5210	7.90	82.61	0.83	8.73	≤23.98	PASS

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant0	5180	-1.12	≤11.00	PASS
		5200	-0.96	≤11.00	PASS
		5240	-1.20	≤11.00	PASS
11N20SISO	Ant0	5180	-1.05	≤11.00	PASS
		5200	-0.88	≤11.00	PASS
		5240	-0.91	≤11.00	PASS
11N40SISO	Ant0	5190	-3.92	≤11.00	PASS
		5230	-3.89	≤11.00	PASS
11AC20SISO	Ant0	5180	-0.96	≤11.00	PASS
		5200	-0.92	≤11.00	PASS
		5240	-1.06	≤11.00	PASS
11AC40SISO	Ant0	5190	-4.36	≤11.00	PASS
		5230	-4.39	≤11.00	PASS
11AC80SISO	Ant0	5210	-7.60	≤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

11A_Ant0_5180



11A_Ant0_5200



11A_Ant0_5240



11N20SISO_Ant0_5180



11N20SISO_Ant0_5200



11N20SISO_Ant0_5240



11N40SISO_Ant0_5190



11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180



11AC20SISO_Ant0_5200



11AC20SISO_Ant0_5240



11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210

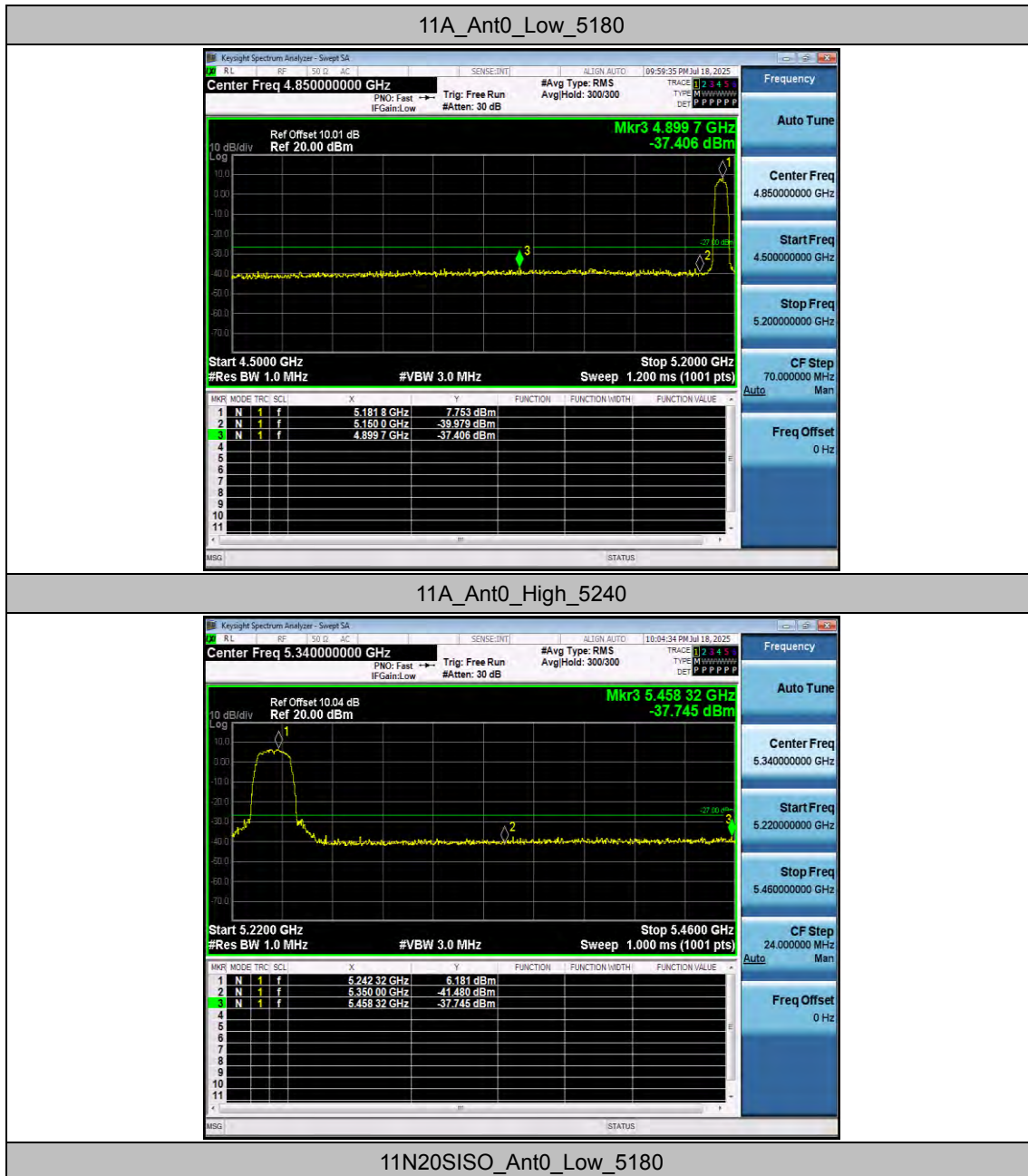


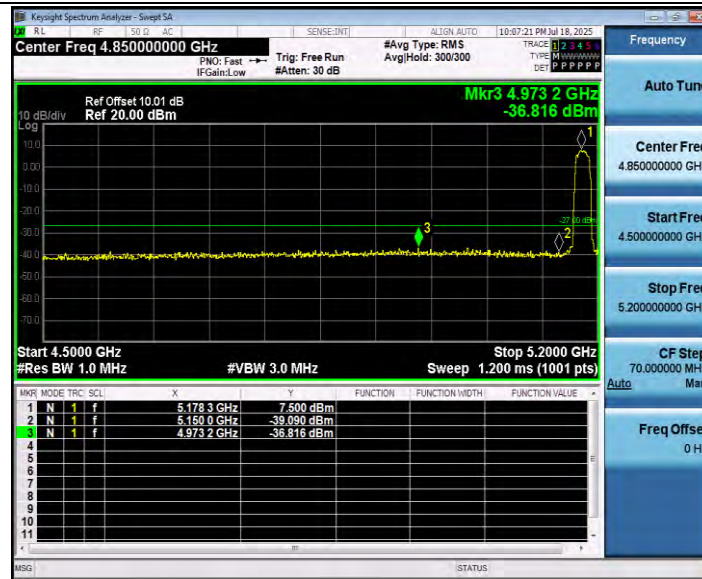
Appendix D.6: Band edge measurements

Test Result B1

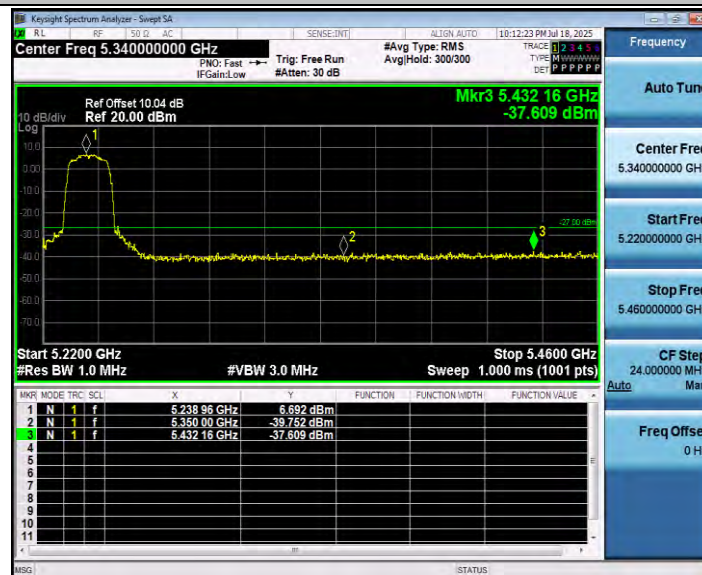
TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant0	Low	5180	-37.41	≤ -27	PASS
		High	5240	-37.75	≤ -27	PASS
11N20SISO	Ant0	Low	5180	-36.82	≤ -27	PASS
		High	5240	-37.61	≤ -27	PASS
11N40SISO	Ant0	Low	5190	-36.65	≤ -27	PASS
		High	5230	-37.55	≤ -27	PASS
11AC20SISO	Ant0	Low	5180	-37.24	≤ -27	PASS
		High	5240	-37.18	≤ -27	PASS
11AC40SISO	Ant0	Low	5190	-37.43	≤ -27	PASS
		High	5230	-37.17	≤ -27	PASS
11AC80SISO	Ant0	Low	5210	-36.3	≤ -27	PASS
		High	5210	-37.03	≤ -27	PASS

Test Graphs B1

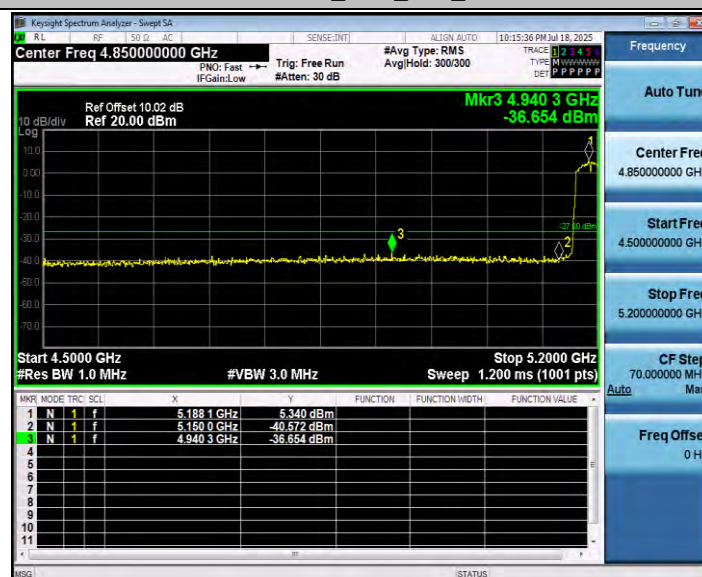


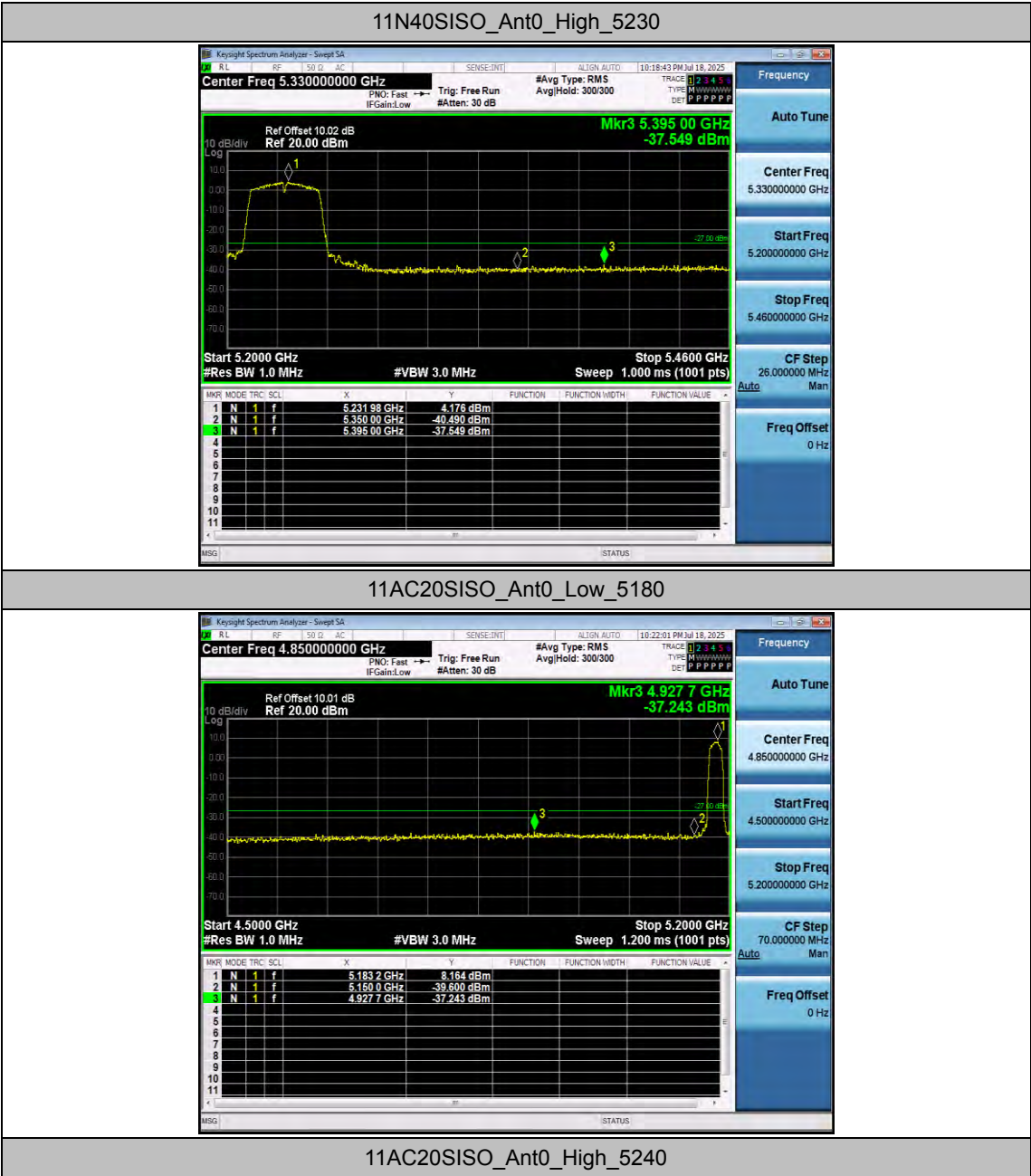


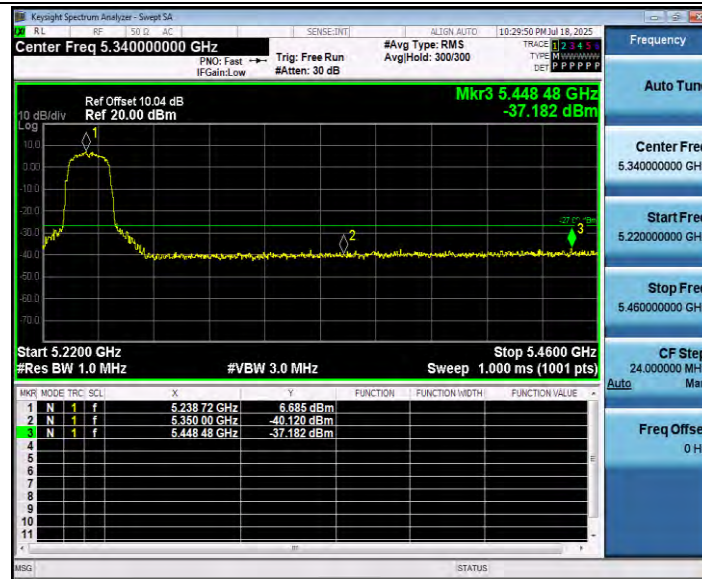
11N20SISO_Ant0_High_5240



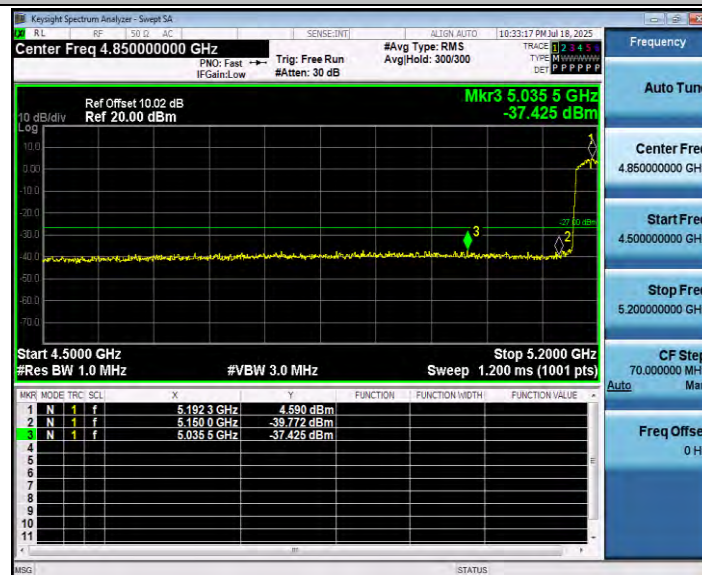
11N40SISO_Ant0_Low_5190







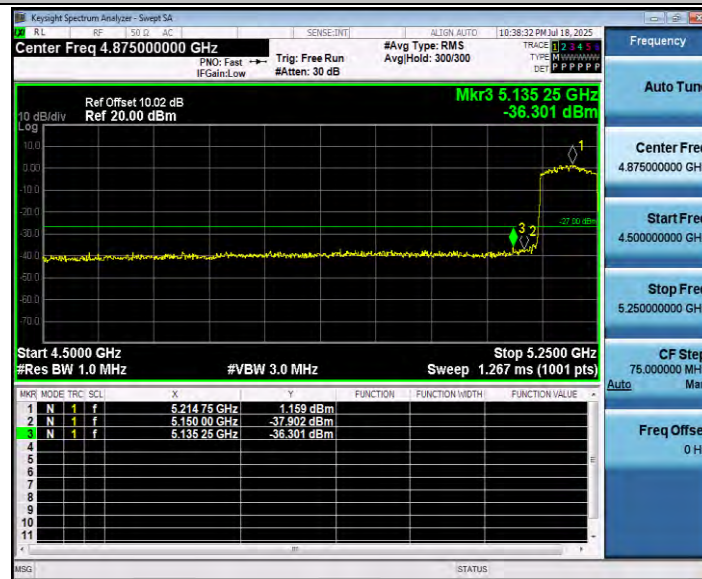
11AC40SISO_Ant0_Low_5190



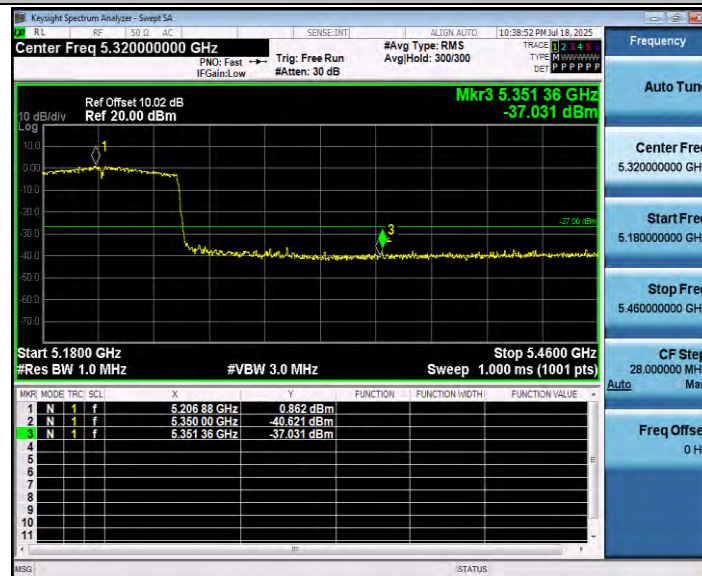
11AC40SISO_Ant0_High_5230



11AC80SISO_Ant0_Low_5210



11AC80SISO_Ant0_High_5210



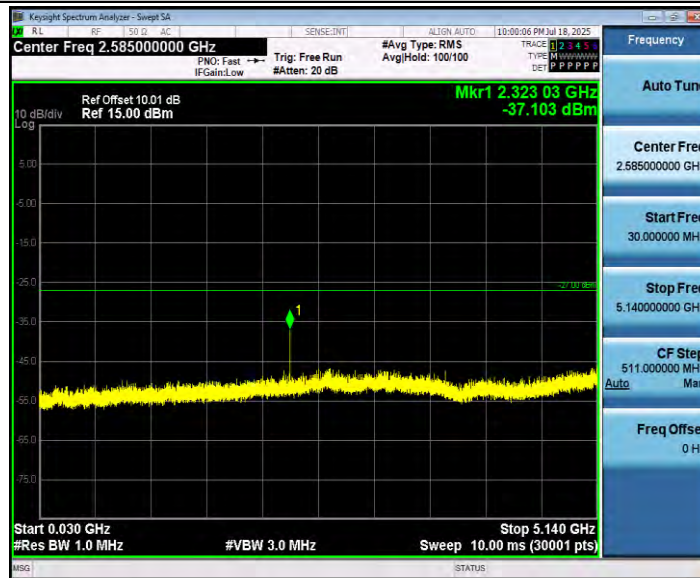
Appendix D.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant0	5180	30~5140	2323.03	-37.1	≤-27	PASS
			5360~27000	23587.37	-37.28	≤-27	PASS
		5200	30~5140	2620.77	-46.65	≤-27	PASS
			5360~27000	26766.29	-36.9	≤-27	PASS
		5240	30~5140	2322.18	-40.93	≤-27	PASS
			5360~27000	25421	-37.36	≤-27	PASS
11N20SISO	Ant0	5180	30~5140	5137.45	-45.43	≤-27	PASS
			5360~27000	24327.46	-37.09	≤-27	PASS
		5200	30~5140	4942.75	-46.38	≤-27	PASS
			5360~27000	25653.27	-37.15	≤-27	PASS
		5240	30~5140	2648.02	-45.99	≤-27	PASS
			5360~27000	23501.53	-36.93	≤-27	PASS
11N40SISO	Ant0	5190	30~5140	5081.58	-45.82	≤-27	PASS
			5360~27000	24204.11	-36.93	≤-27	PASS
		5230	30~5140	4885.69	-46.45	≤-27	PASS
			5360~27000	24224.31	-37.45	≤-27	PASS
11AC20SISO	Ant0	5180	30~5140	2323.03	-46.56	≤-27	PASS
			5360~27000	25571.04	-37.14	≤-27	PASS
		5200	30~5140	5124.67	-46.08	≤-27	PASS
			5360~27000	24892.26	-36.74	≤-27	PASS
		5240	30~5140	2701.51	-46.57	≤-27	PASS
			5360~27000	24915.35	-37.11	≤-27	PASS
11AC40SISO	Ant0	5190	30~5140	5125.01	-46.15	≤-27	PASS
			5360~27000	24223.59	-36.74	≤-27	PASS
		5230	30~5140	4878.37	-45.87	≤-27	PASS
			5360~27000	23491.43	-36	≤-27	PASS
11AC80SISO	Ant0	5210	30~5140	5138.3	-38.59	≤-27	PASS
			5360~27000	25068.99	-36.42	≤-27	PASS

Test Graphs

11A_Ant0_5180_30~5140



11A_Ant0_5180_5360~27000



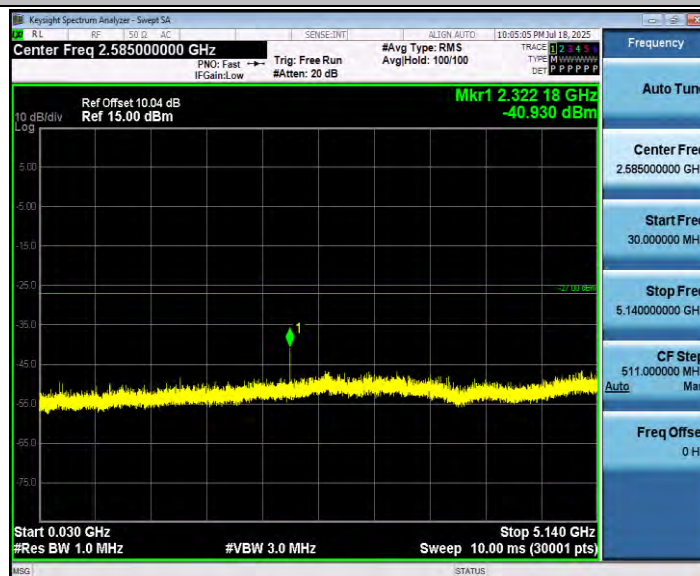
11A_Ant0_5200_30~5140



11A_Ant0_5200_5360~27000



11A_Ant0_5240_30~5140



11A_Ant0_5240_5360~27000



11N20SISO_Ant0_5180_30~5140



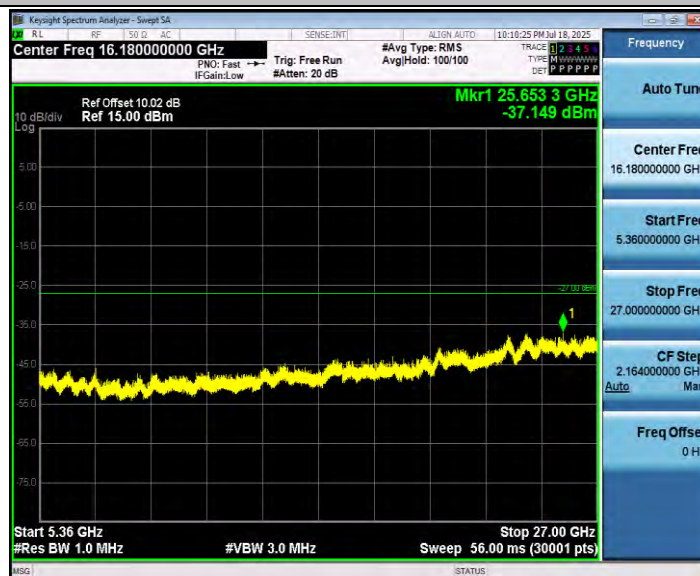
11N20SISO_Ant0_5180_5360~27000



11N20SISO_Ant0_5200_30~5140



11N20SISO_Ant0_5200_5360~27000



11N20SISO_Ant0_5240_30~5140



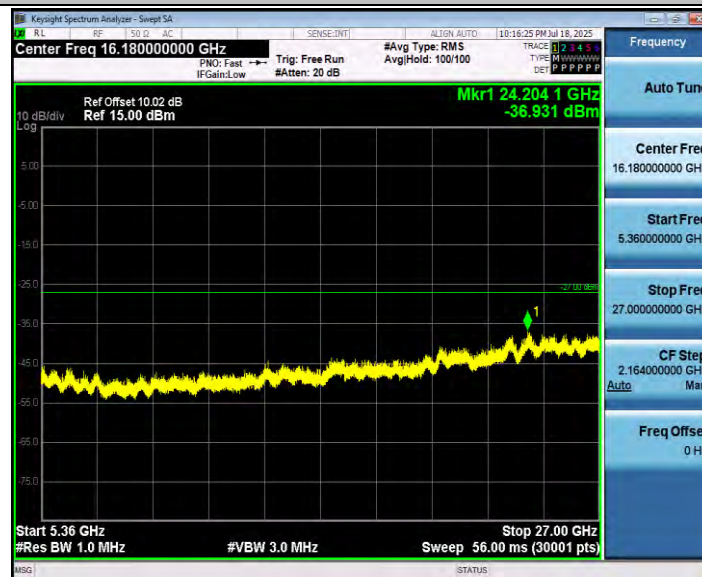
11N20SISO_Ant0_5240_5360~27000



11N40SISO_Ant0_5190_30~5140



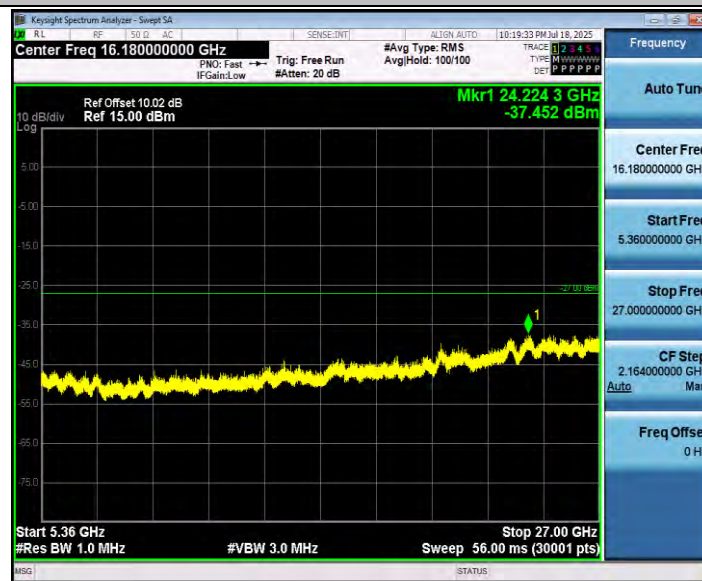
11N40SISO_Ant0_5190_5360~27000



11N40SISO_Ant0_5230_30~5140



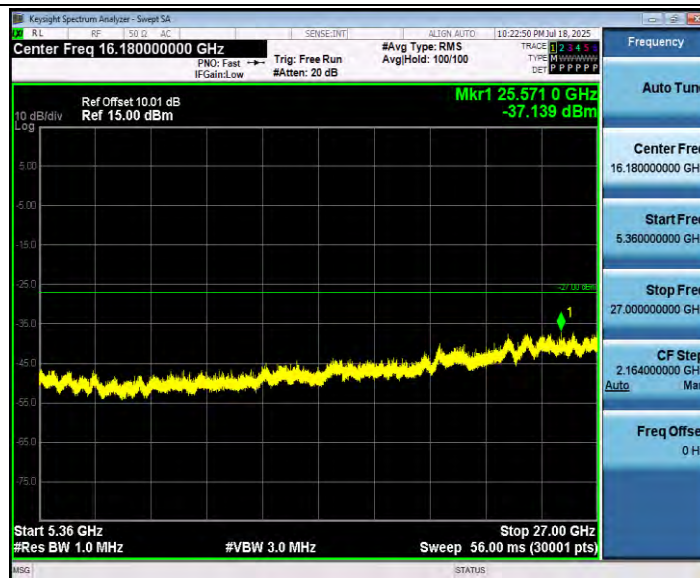
11N40SISO_Ant0_5230_5360~27000



11AC20SISO_Ant0_5180_30~5140



11AC20SISO_Ant0_5180_5360~27000



11AC20SISO_Ant0_5200_30~5140



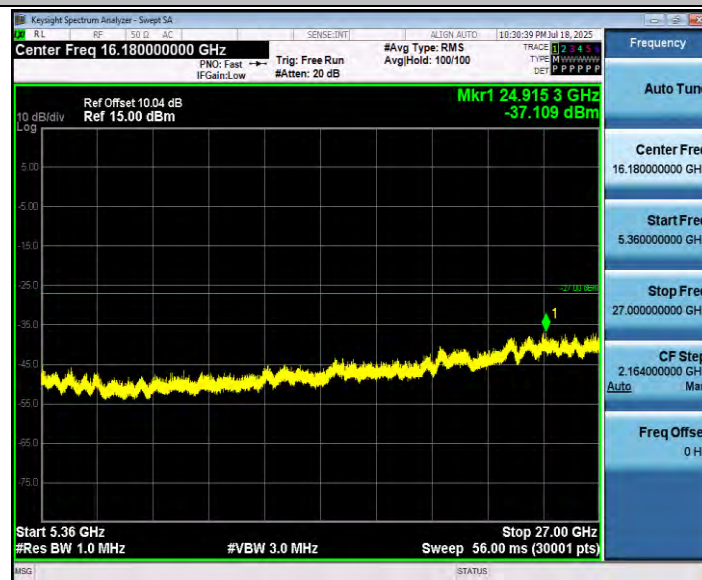
11AC20SISO_Ant0_5200_5360~27000



11AC20SISO_Ant0_5240_30~5140



11AC20SISO_Ant0_5240_5360~27000



11AC40SISO_Ant0_5190_30~5140



11AC40SISO_Ant0_5190_5360~27000



11AC40SISO_Ant0_5230_30~5140



11AC40SISO_Ant0_5230_5360~27000



11AC80SISO_Ant0_5210_30~5140



11AC80SISO_Ant0_5210_5360~27000

