

Case No. : <u>CTA24051100404</u>	
Ambient Condition: <u>24</u> °C, <u>50</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.5.13</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	Ant1	5180	23.680	5167.920	5191.600	---	---
		5200	23.120	5188.480	5211.600	---	---
		5240	23.440	5228.040	5251.480	---	---
11N20SISO	Ant1	5180	23.320	5168.280	5191.600	---	---
		5200	23.640	5188.080	5211.720	---	---
		5240	23.240	5228.400	5251.640	---	---
11N40SISO	Ant1	5190	43.040	5168.880	5211.920	---	---
		5230	43.200	5208.640	5251.840	---	---
11AC20SISO	Ant1	5180	23.720	5168.320	5192.040	---	---
		5200	23.640	5188.000	5211.640	---	---
		5240	23.640	5227.960	5251.600	---	---
11AC40SISO	Ant1	5190	42.720	5168.960	5211.680	---	---
		5230	43.440	5208.480	5251.920	---	---
11AC80SISO	Ant1	5210	86.400	5167.280	5253.680	---	---
11AX20SISO	Ant1	5180	23.920	5167.880	5191.800	---	---
		5200	22.840	5188.680	5211.520	---	---
		5240	23.120	5228.280	5251.400	---	---
11AX40SISO	Ant1	5190	41.680	5169.440	5211.120	---	---
		5230	42.560	5208.560	5251.120	---	---
11AX80SISO	Ant1	5210	83.200	5168.880	5252.080	---	---

Test Graphs

11A_Ant1_5180



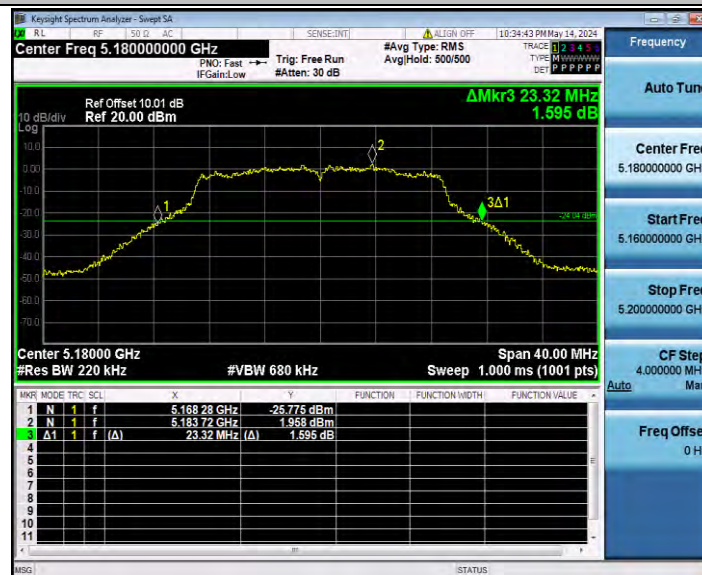
11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



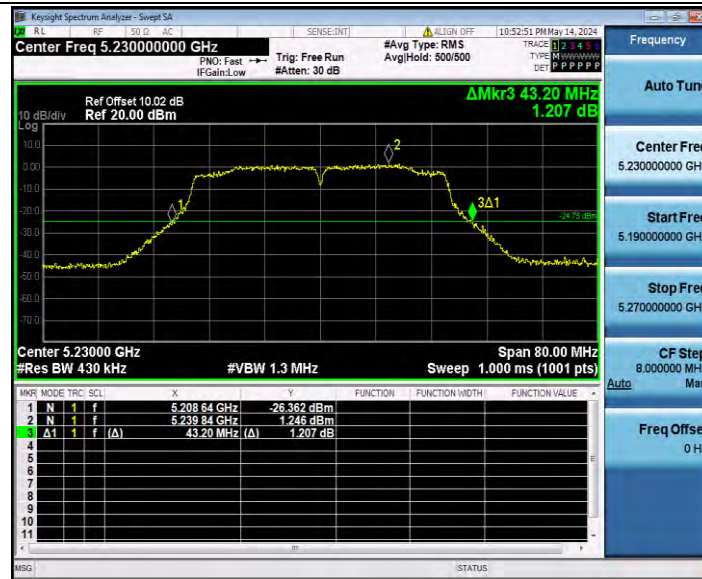
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



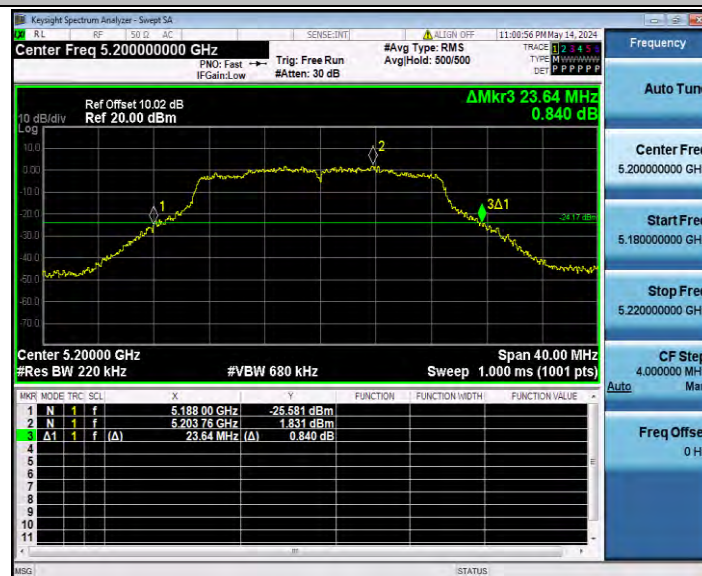
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



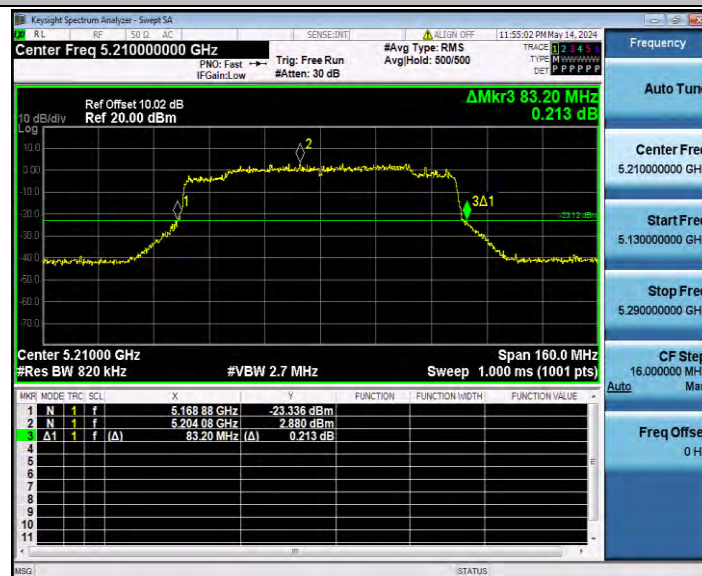
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



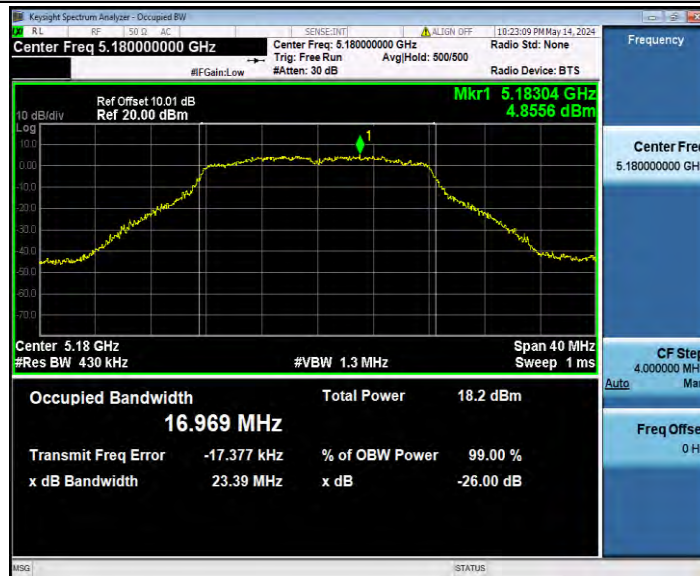
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.969	5171.4981	5188.4671	---	---
		5200	17.078	5191.4538	5208.5318	---	---
		5240	16.969	5231.5659	5248.5349	---	---
11N20SISO	Ant1	5180	18.013	5170.9702	5188.9832	---	---
		5200	18.011	5191.0112	5209.0222	---	---
		5240	17.987	5231.0425	5249.0295	---	---
11N40SISO	Ant1	5190	36.253	5171.9213	5208.1743	---	---
		5230	36.181	5211.9604	5248.1414	---	---
11AC20SISO	Ant1	5180	18.050	5170.9808	5189.0308	---	---
		5200	18.018	5190.9919	5209.0099	---	---
		5240	17.997	5231.0117	5249.0087	---	---
11AC40SISO	Ant1	5190	36.203	5171.9316	5208.1346	---	---
		5230	36.244	5211.8996	5248.1436	---	---
11AC80SISO	Ant1	5210	75.154	5172.6419	5247.7959	---	---
11AX20SISO	Ant1	5180	19.018	5170.4986	5189.5166	---	---
		5200	18.940	5190.5196	5209.4596	---	---
		5240	18.985	5230.5197	5249.5047	---	---
11AX40SISO	Ant1	5190	37.669	5171.2059	5208.8749	---	---
		5230	37.619	5211.2262	5248.8452	---	---
11AX80SISO	Ant1	5210	76.795	5171.8840	5248.6790	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



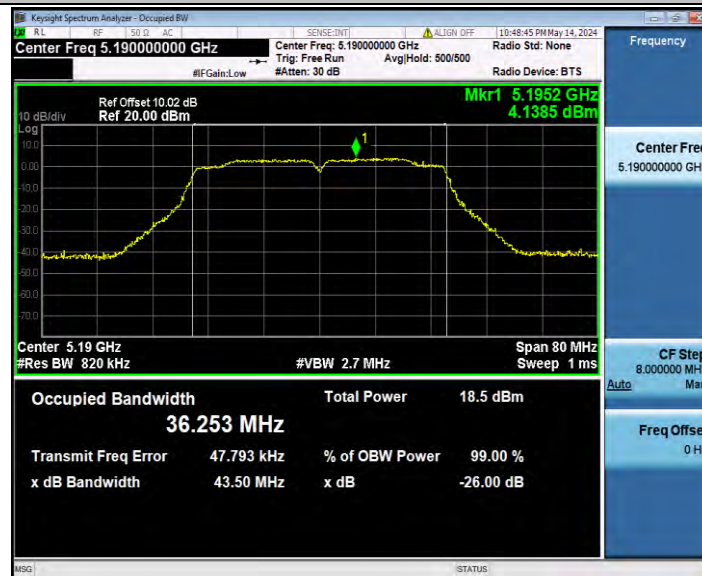
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



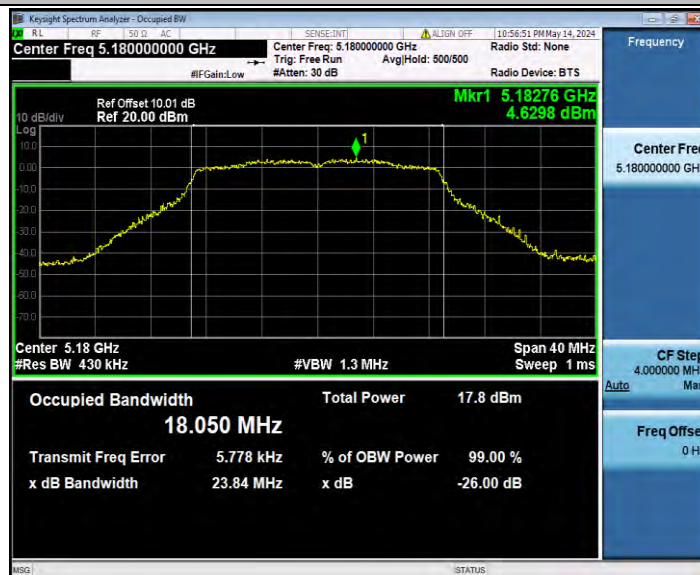
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



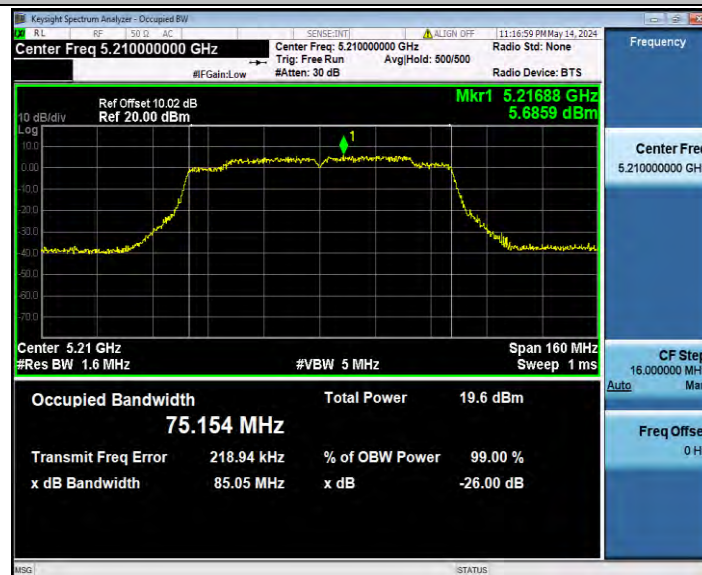
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



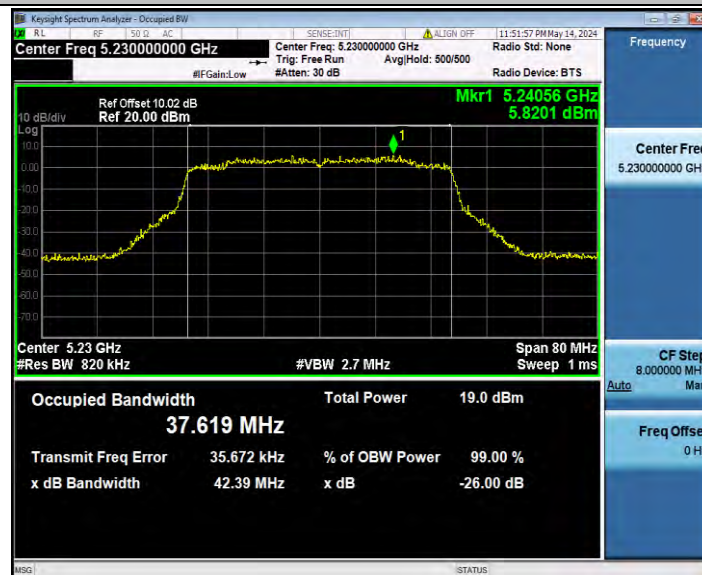
11AX20SISO_Ant1_5240



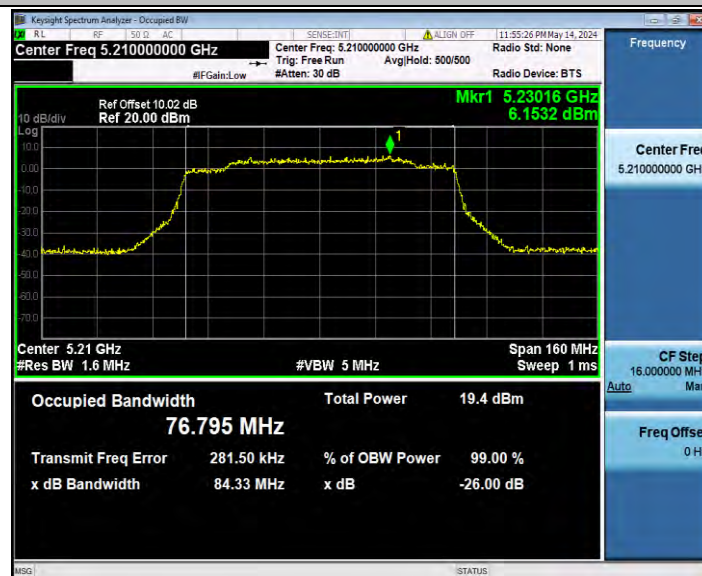
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

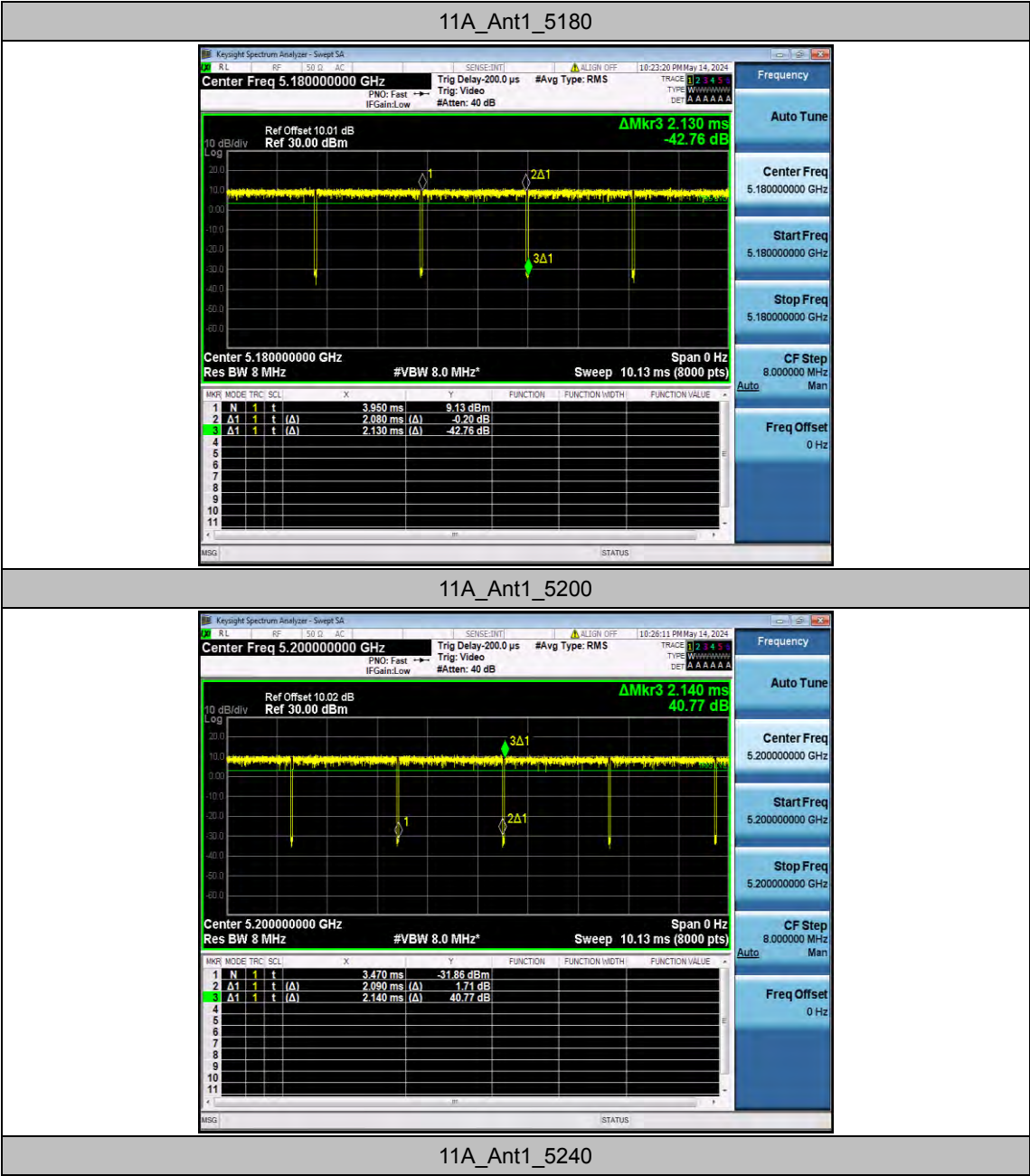


Appendix D.3: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	2.08	2.13	97.65	0.10	0.48
		5200	2.09	2.14	97.66	0.10	0.48
		5240	2.08	2.13	97.65	0.10	0.48
11N20SISO	Ant1	5180	3.98	4.02	99.00	0.04	0.25
		5200	3.97	4.02	98.76	0.05	0.25
		5240	3.97	4.02	98.76	0.05	0.25
11N40SISO	Ant1	5190	3.97	4.02	98.76	0.05	0.25
		5230	3.97	4.02	98.76	0.05	0.25
11AC20SISO	Ant1	5180	3.94	3.99	98.75	0.05	0.25
		5200	3.94	3.99	98.75	0.05	0.25
		5240	3.94	3.99	98.75	0.05	0.25
11AC40SISO	Ant1	5190	3.96	4.01	98.75	0.05	0.25
		5230	3.96	4.01	98.75	0.05	0.25
11AC80SISO	Ant1	5210	3.97	4.01	99.00	0.04	0.25
11AX20SISO	Ant1	5180	3.95	4.00	98.75	0.05	0.25
		5200	3.95	4.00	98.75	0.05	0.25
		5240	3.96	4.00	99.00	0.04	0.25
11AX40SISO	Ant1	5190	3.96	4.01	98.75	0.05	0.25
		5230	3.96	4.00	99.00	0.04	0.25
11AX80SISO	Ant1	5210	3.95	4.00	98.75	0.05	0.25

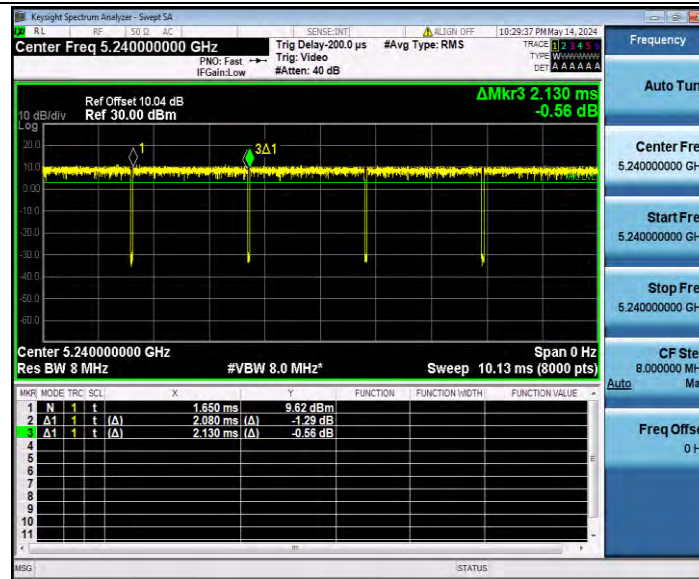
Test Graphs



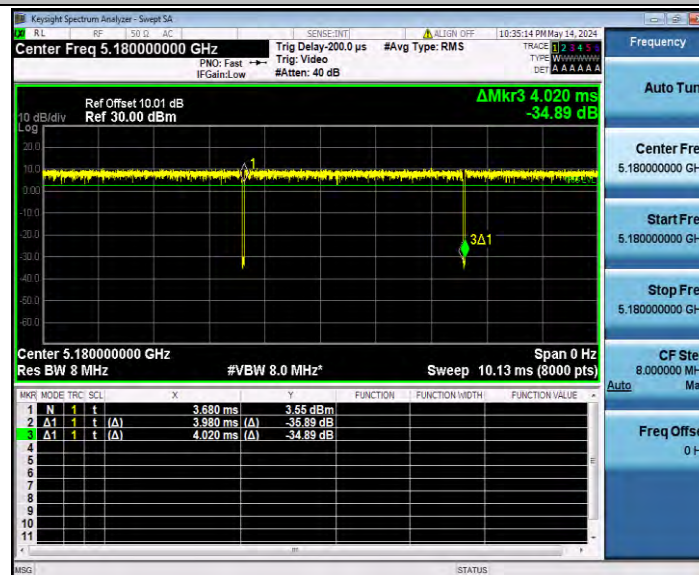
11A_Ant1_5200

Center Freq 5.200000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz*
Sweep 10.13 ms (8000 pts)Frequency
Auto Tune
Center Freq 5.200000000 GHz
Start Freq 5.200000000 GHz
Stop Freq 5.200000000 GHz
CF Step 8.0000000 MHz
Freq Offset 0 Hz

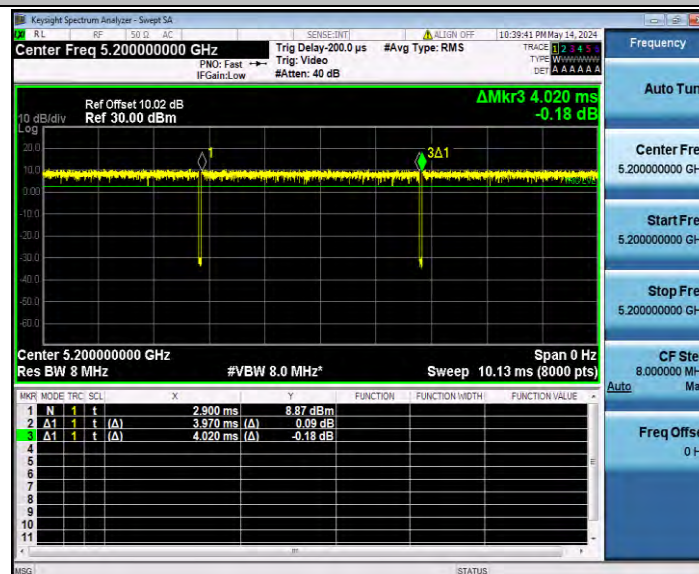
11A_Ant1_5240



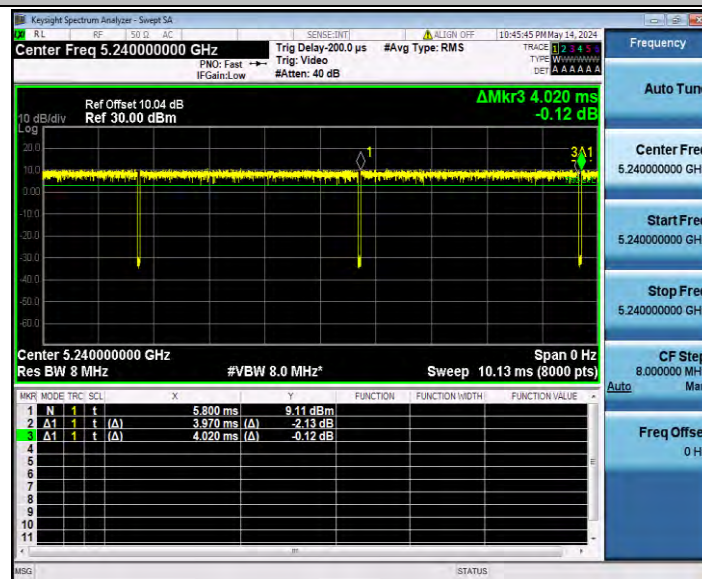
11N20SISO_Ant1_5180



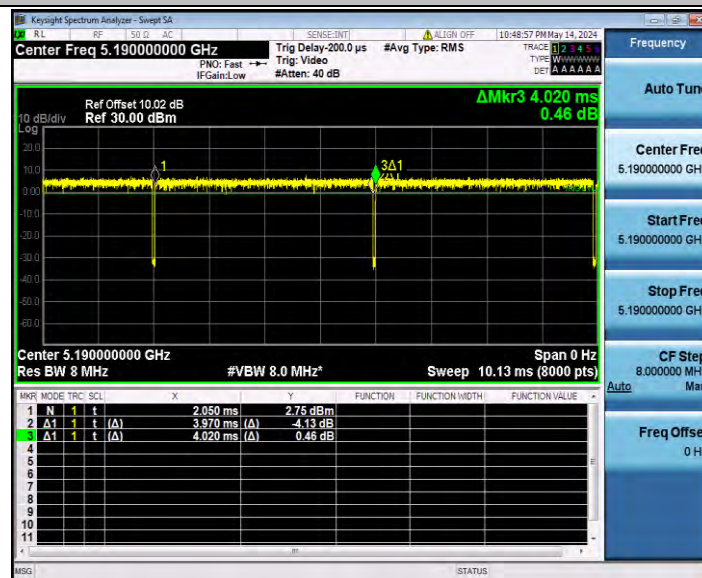
11N20SISO_Ant1_5200



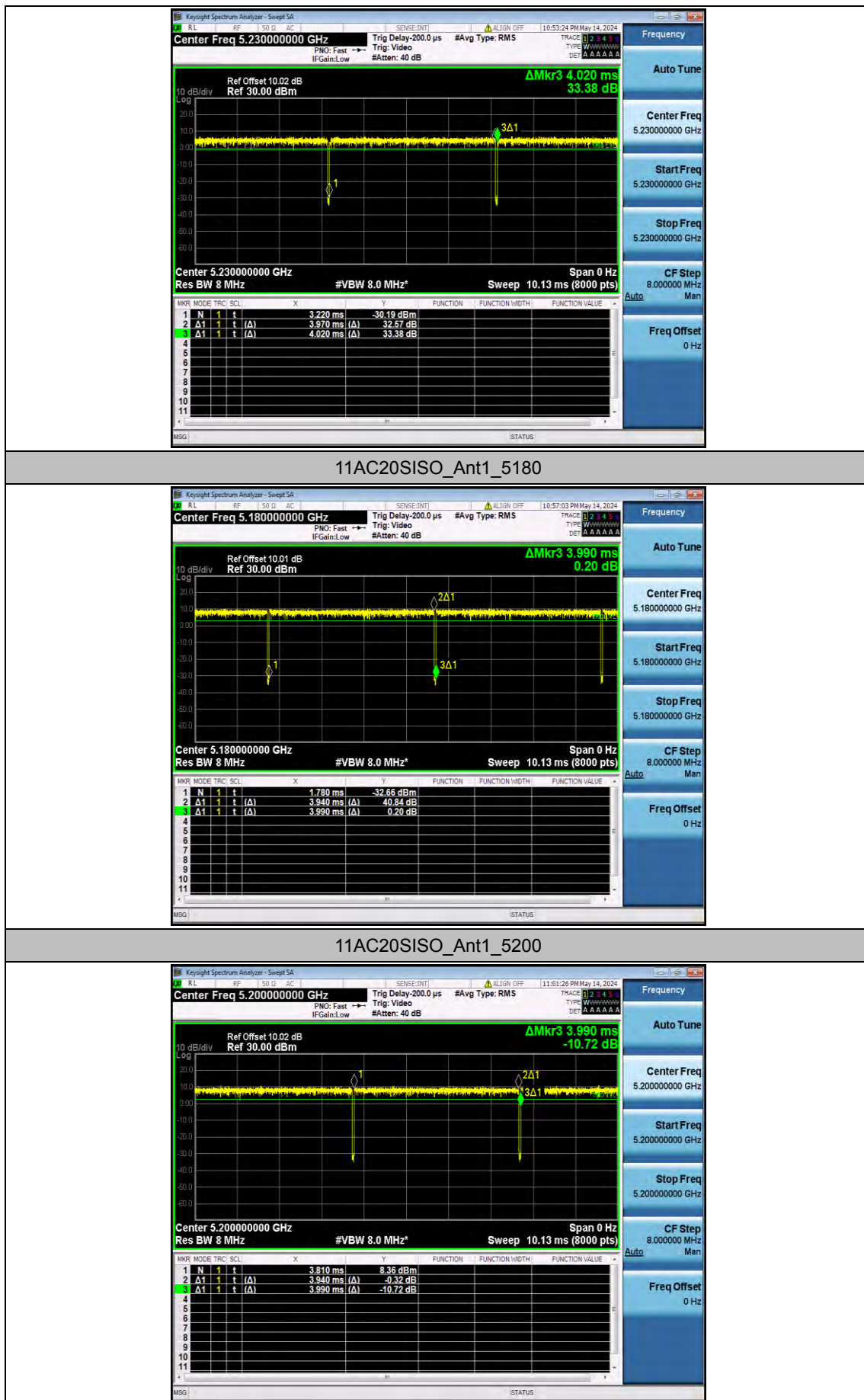
11N20SISO_Ant1_5240



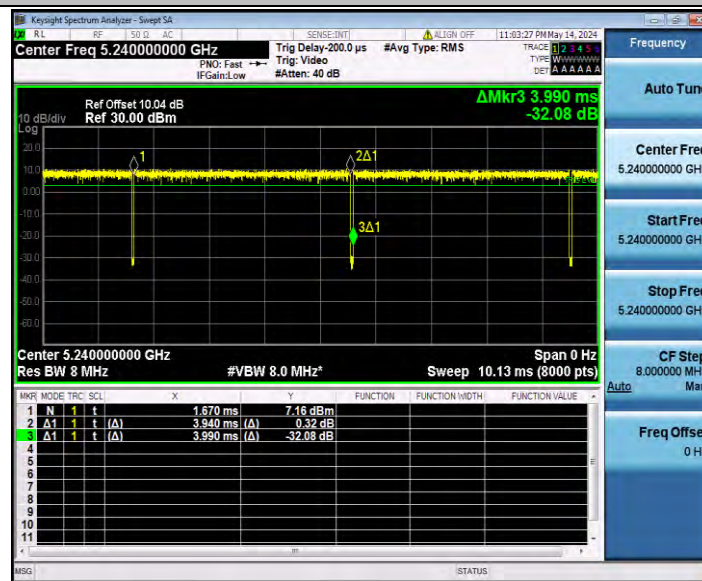
11N40SISO_Ant1_5190



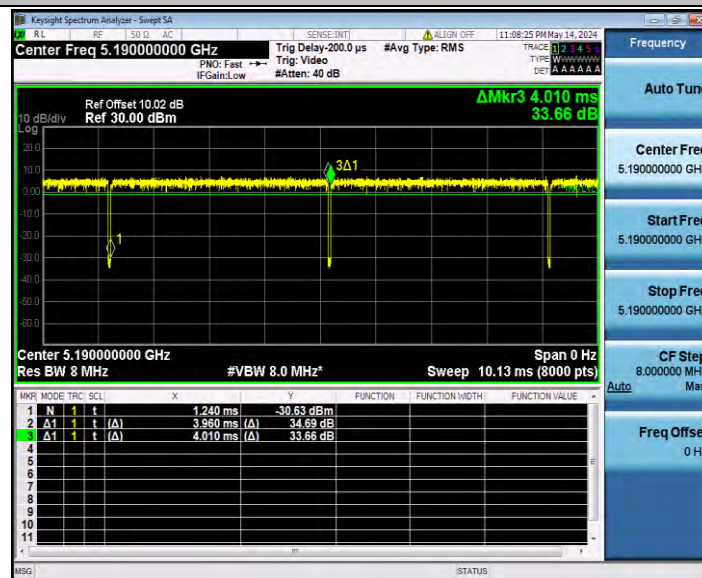
11N40SISO_Ant1_5230



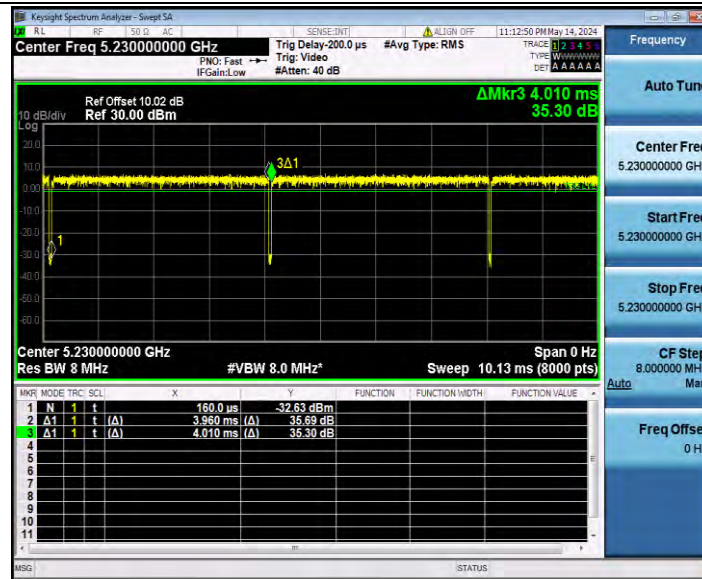
11AC20SISO_Ant1_5240



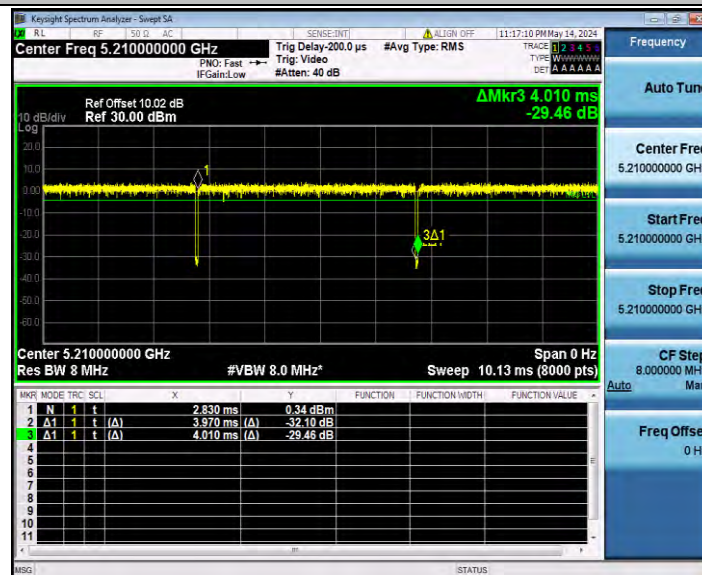
11AC40SISO_Ant1_5190



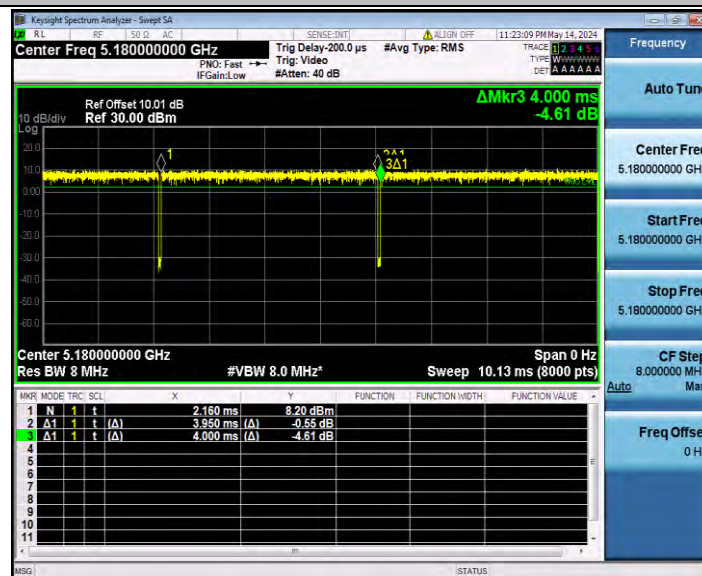
11AC40SISO_Ant1_5230



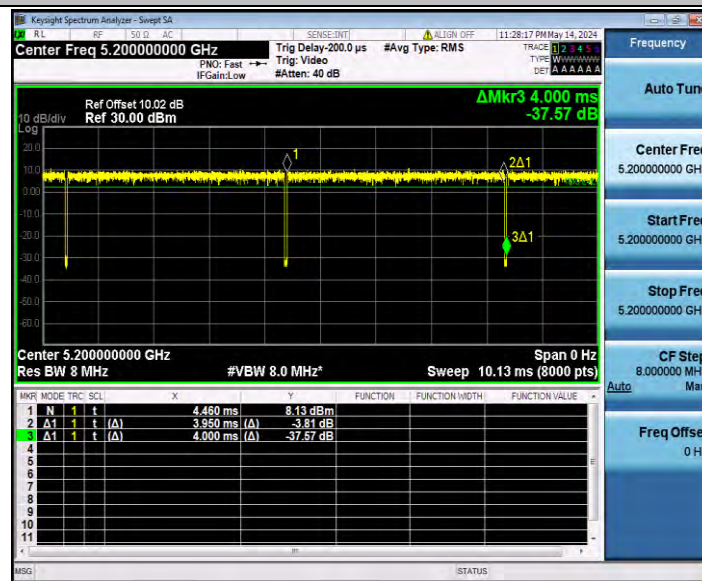
11AC80SISO_Ant1_5210



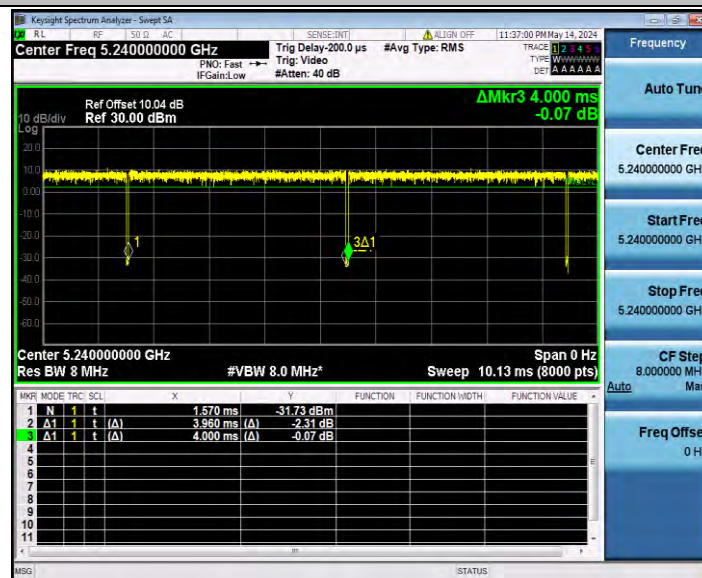
11AX20SISO_Ant1_5180



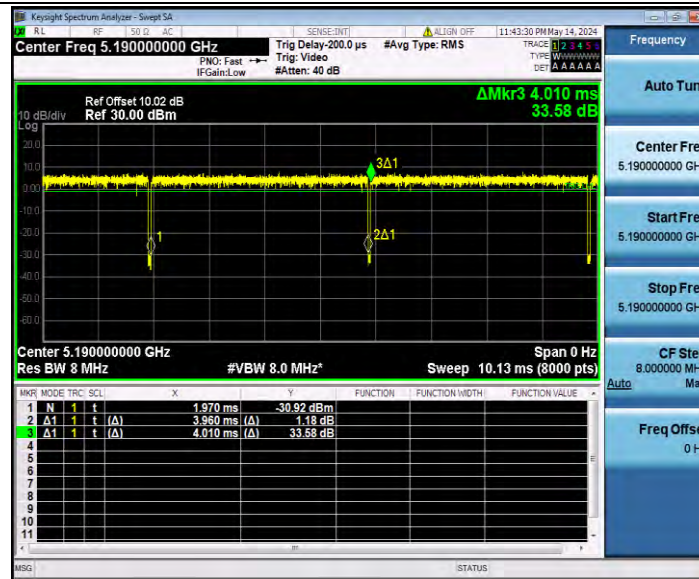
11AX20SISO_Ant1_5200



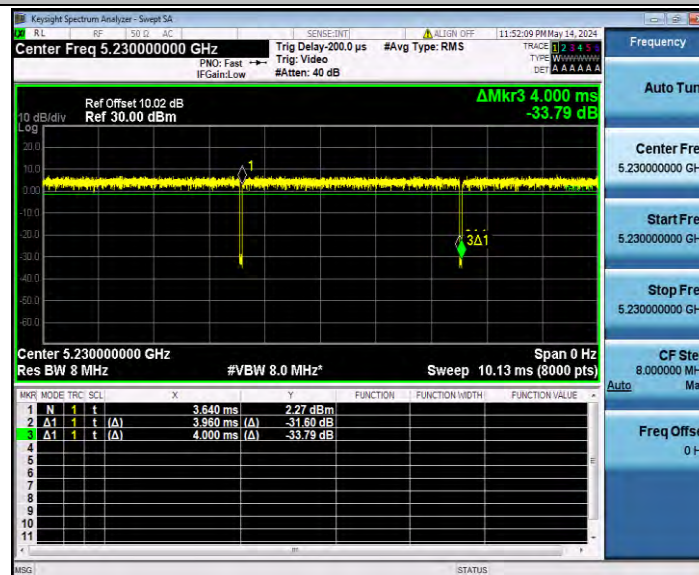
11AX20SISO_Ant1_5240



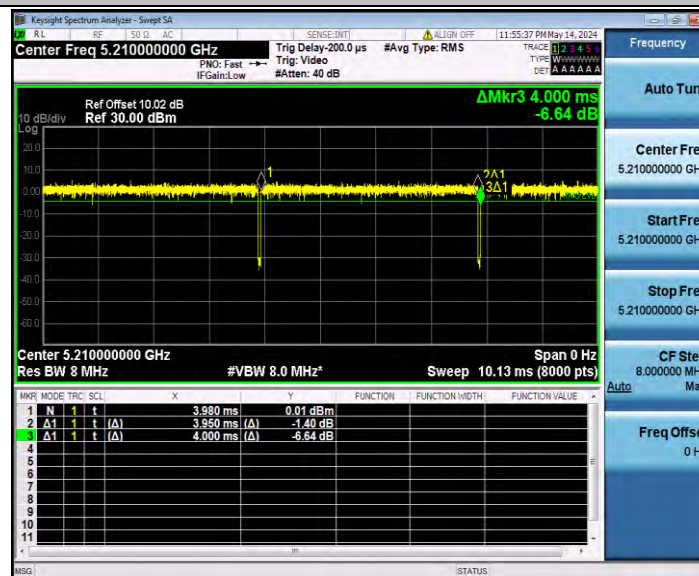
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



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	Ant1	5180	11.14	97.65	0.10	11.24	≤23.98	PASS
		5200	10.90	97.66	0.10	11.00	≤23.98	PASS
		5240	10.89	97.65	0.10	10.99	≤23.98	PASS
11N20SISO	Ant1	5180	10.70	99.00	0.04	10.74	≤23.98	PASS
		5200	10.70	98.76	0.05	10.75	≤23.98	PASS
		5240	10.68	98.76	0.05	10.73	≤23.98	PASS
11N40SISO	Ant1	5190	10.82	98.76	0.05	10.87	≤23.98	PASS
		5230	10.80	98.76	0.05	10.85	≤23.98	PASS
11AC20SISO	Ant1	5180	10.78	98.75	0.05	10.83	≤23.98	PASS
		5200	10.73	98.75	0.05	10.78	≤23.98	PASS
		5240	10.70	98.75	0.05	10.75	≤23.98	PASS
11AC40SISO	Ant1	5190	10.69	98.75	0.05	10.74	≤23.98	PASS
		5230	10.71	98.75	0.05	10.76	≤23.98	PASS
11AC80SISO	Ant1	5210	10.58	99.00	0.04	10.62	≤23.98	PASS
11AX20SISO	Ant1	5180	10.60	98.75	0.05	10.65	≤23.98	PASS
		5200	10.41	98.75	0.05	10.46	≤23.98	PASS
		5240	10.36	99.00	0.04	10.40	≤23.98	PASS
11AX40SISO	Ant1	5190	10.46	98.75	0.05	10.51	≤23.98	PASS
		5230	10.22	99.00	0.04	10.26	≤23.98	PASS
11AX80SISO	Ant1	5210	10.27	98.75	0.05	10.32	≤23.98	PASS

Note:

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

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.20	≤11.00	PASS
		5200	0.08	≤11.00	PASS
		5240	0.32	≤11.00	PASS
11N20SISO	Ant1	5180	-0.18	≤11.00	PASS
		5200	-0.27	≤11.00	PASS
		5240	-0.08	≤11.00	PASS
11N40SISO	Ant1	5190	-3.16	≤11.00	PASS
		5230	-3.27	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.16	≤11.00	PASS
		5200	-0.20	≤11.00	PASS
		5240	-0.10	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.23	≤11.00	PASS
		5230	-3.33	≤11.00	PASS
11AC80SISO	Ant1	5210	-6.35	≤11.00	PASS
11AX20SISO	Ant1	5180	-0.62	≤11.00	PASS
		5200	-0.60	≤11.00	PASS
		5240	-0.65	≤11.00	PASS
11AX40SISO	Ant1	5190	-3.62	≤11.00	PASS
		5230	-3.99	≤11.00	PASS
11AX80SISO	Ant1	5210	-6.62	≤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_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



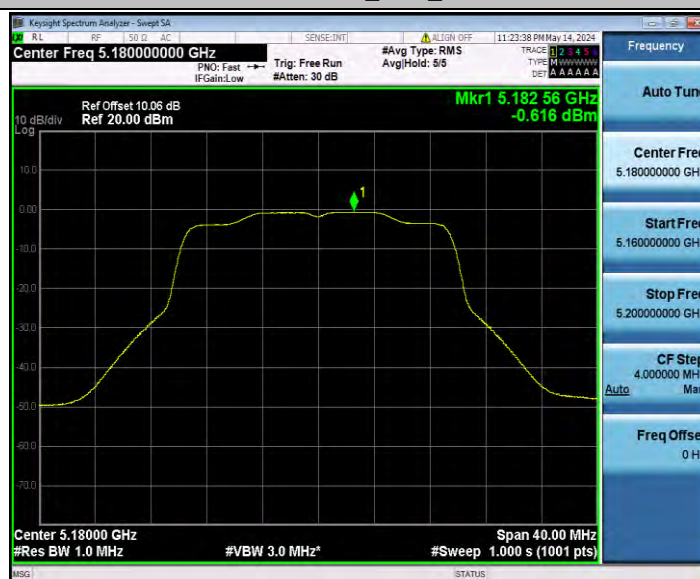
11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

