

Case No. : <u>GTS20221215003-1-6</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.6.1</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	Ant1	5180	23.000	5168.720	5191.720	---	---
		5200	22.880	5188.920	5211.800	---	---
		5240	22.800	5228.560	5251.360	---	---
11N20SISO	Ant1	5180	24.040	5168.280	5192.320	---	---
		5200	23.000	5188.360	5211.360	---	---
		5240	22.760	5228.640	5251.400	---	---
11N40SISO	Ant1	5190	41.120	5169.440	5210.560	---	---
		5230	41.360	5209.360	5250.720	---	---
11AC20SISO	Ant1	5180	23.280	5168.680	5191.960	---	---
		5200	23.240	5188.720	5211.960	---	---
		5240	23.200	5228.360	5251.560	---	---
11AC40SISO	Ant1	5190	41.440	5169.440	5210.880	---	---
		5230	41.760	5209.120	5250.880	---	---
11AC80SISO	Ant1	5210	91.520	5168.400	5259.920	---	---

Test Graphs



11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



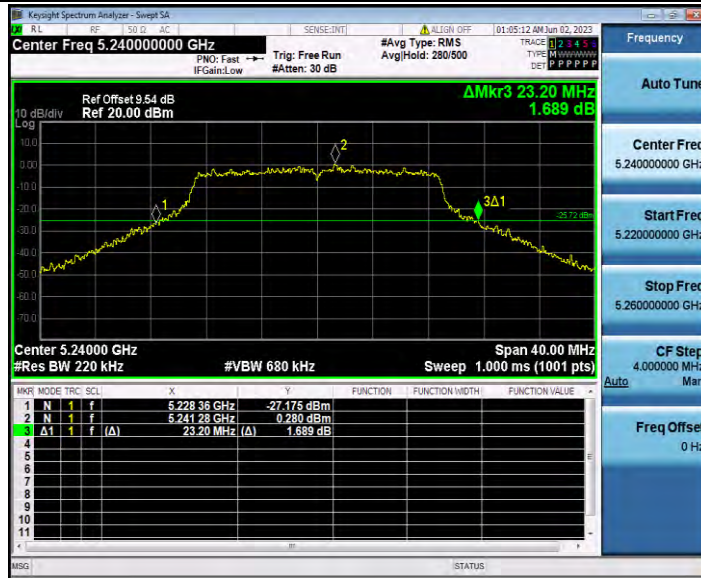
11N40SISO_Ant1_5230



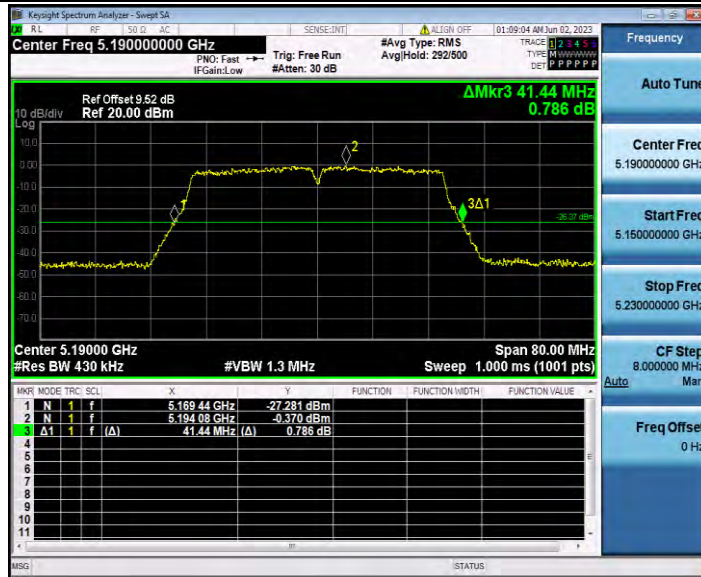
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

Appendix D.2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.043	5171.537	5188.580	---	---
		5200	16.990	5191.541	5208.531	---	---
		5240	17.014	5231.542	5248.556	---	---
11N20SISO	Ant1	5180	18.148	5170.962	5189.110	---	---
		5200	18.145	5190.946	5209.091	---	---
		5240	18.129	5230.969	5249.098	---	---
11N40SISO	Ant1	5190	36.446	5171.824	5208.270	---	---
		5230	36.482	5211.821	5248.303	---	---
11AC20SISO	Ant1	5180	18.127	5170.979	5189.106	---	---
		5200	18.142	5190.947	5209.089	---	---
		5240	18.144	5230.931	5249.075	---	---
11AC40SISO	Ant1	5190	36.471	5171.855	5208.326	---	---
		5230	36.516	5211.778	5248.294	---	---
11AC80SISO	Ant1	5210	76.017	5172.186	5248.203	---	---

Test Graphs



11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



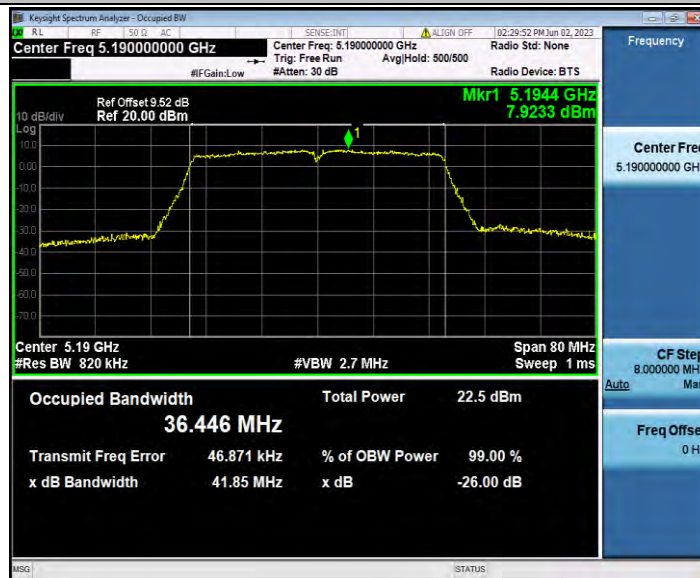
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



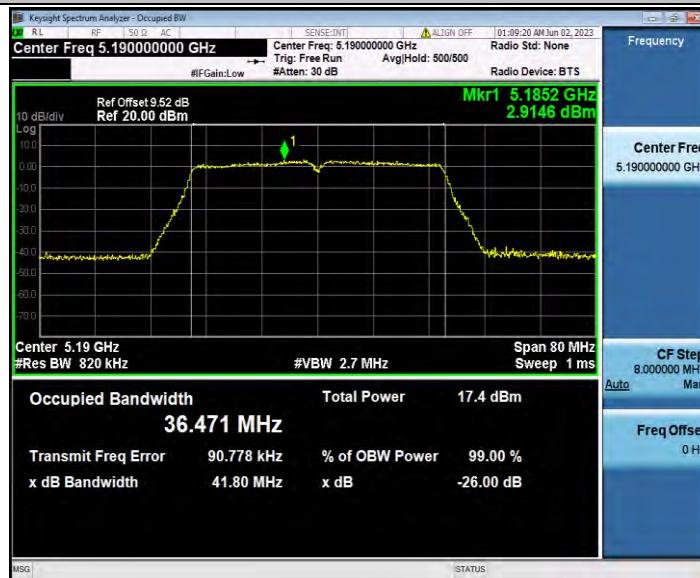
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



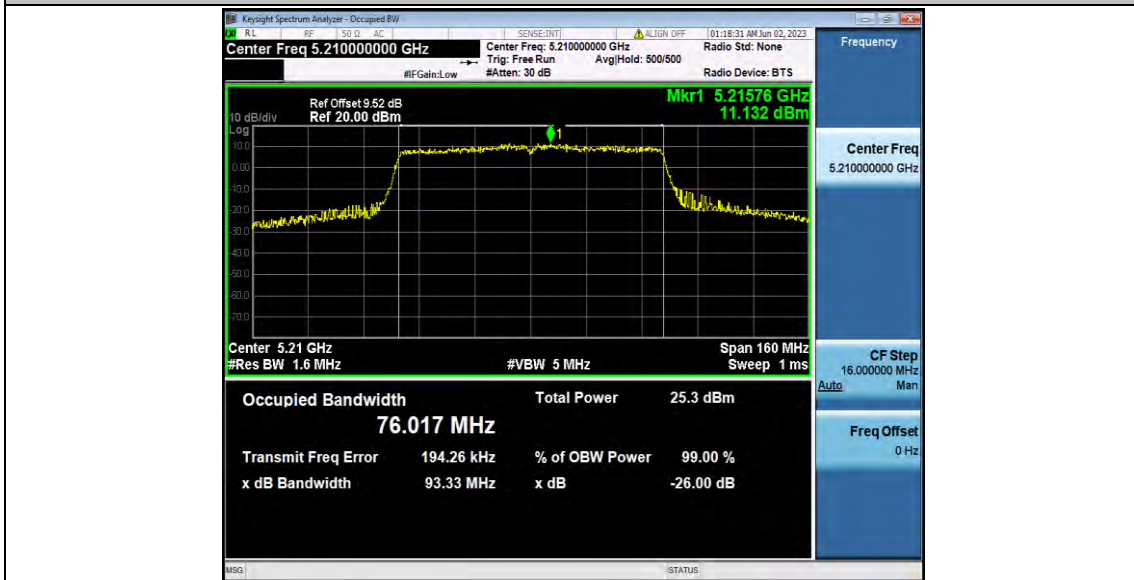
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



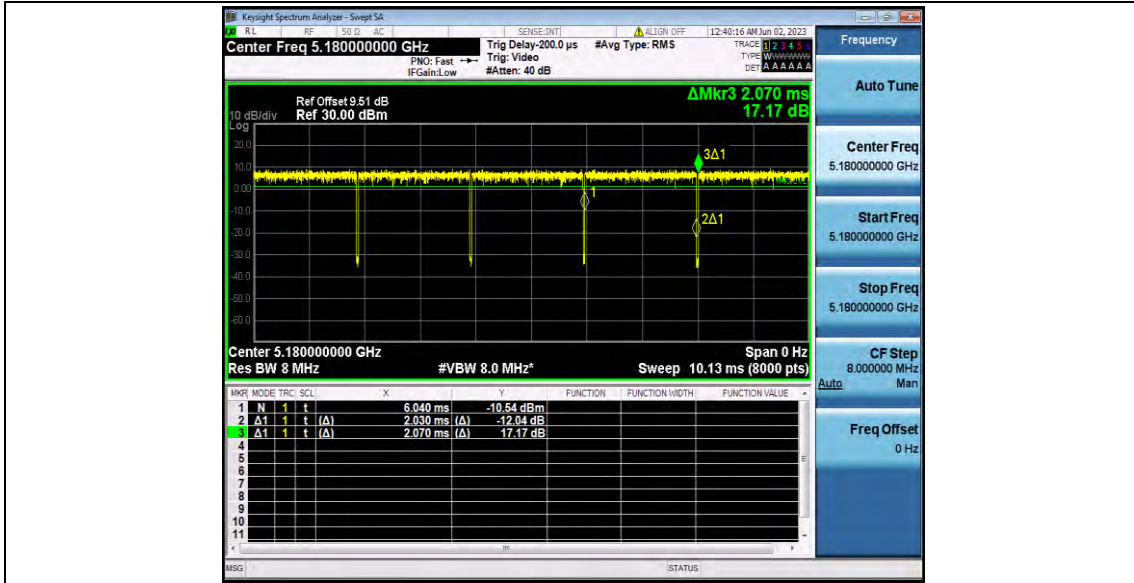
11AC80SISO_Ant1_5210

Appendix D.3: Duty Cycle

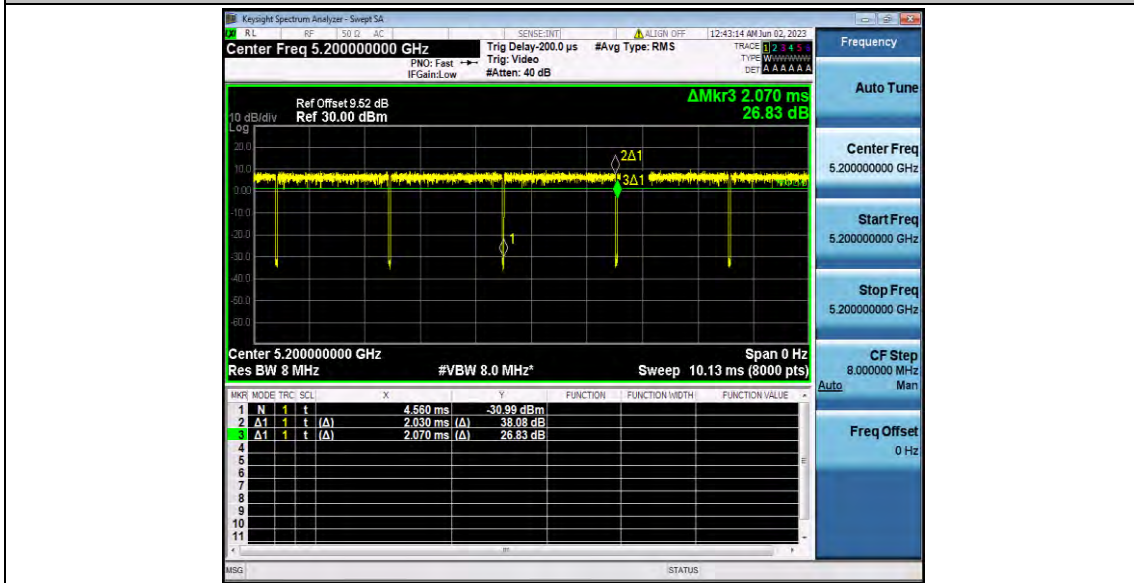
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.03	2.07	98.07
		5200	2.03	2.07	98.07
		5240	2.03	2.07	98.07
11N20SISO	Ant1	5180	1.88	1.92	97.92
		5200	1.89	1.92	98.44
		5240	1.89	1.93	97.93
11N40SISO	Ant1	5190	0.92	0.96	95.83
		5230	0.93	0.97	95.88
11AC20SISO	Ant1	5180	1.90	1.94	97.94
		5200	1.90	1.94	97.94
		5240	1.90	1.94	97.94
11AC40SISO	Ant1	5190	0.93	0.97	95.88
		5230	0.93	0.97	95.88
11AC80SISO	Ant1	5210	0.45	0.49	91.84

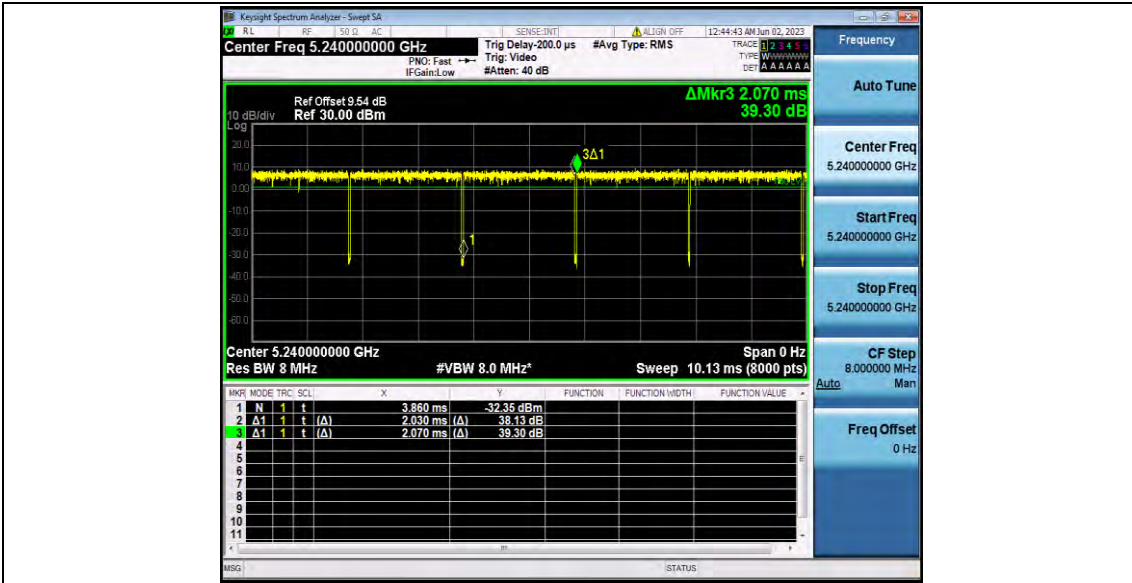
Test Graphs



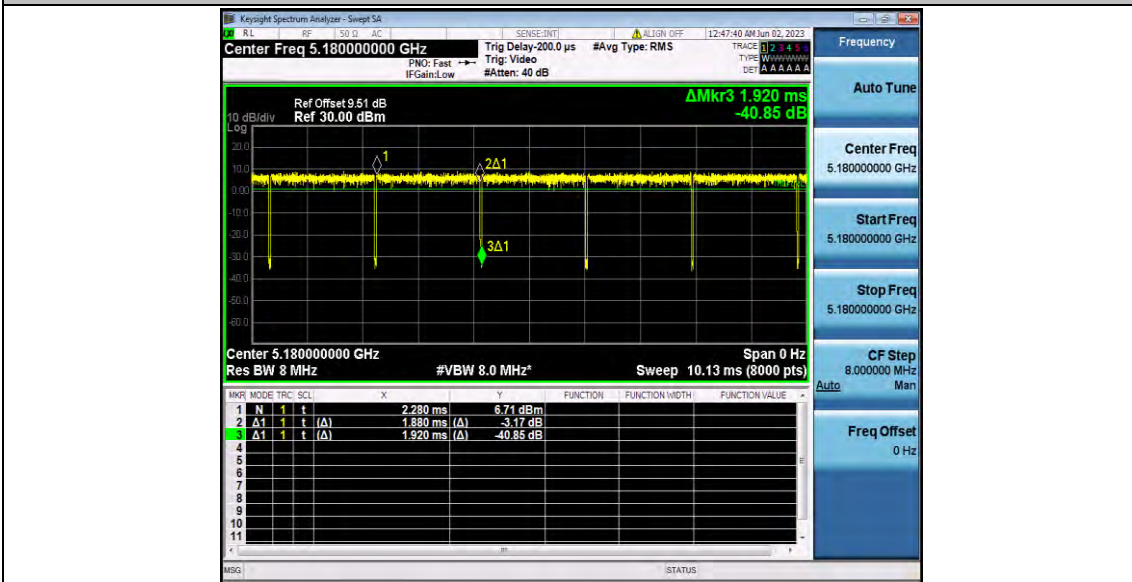
11A_Ant1_5180



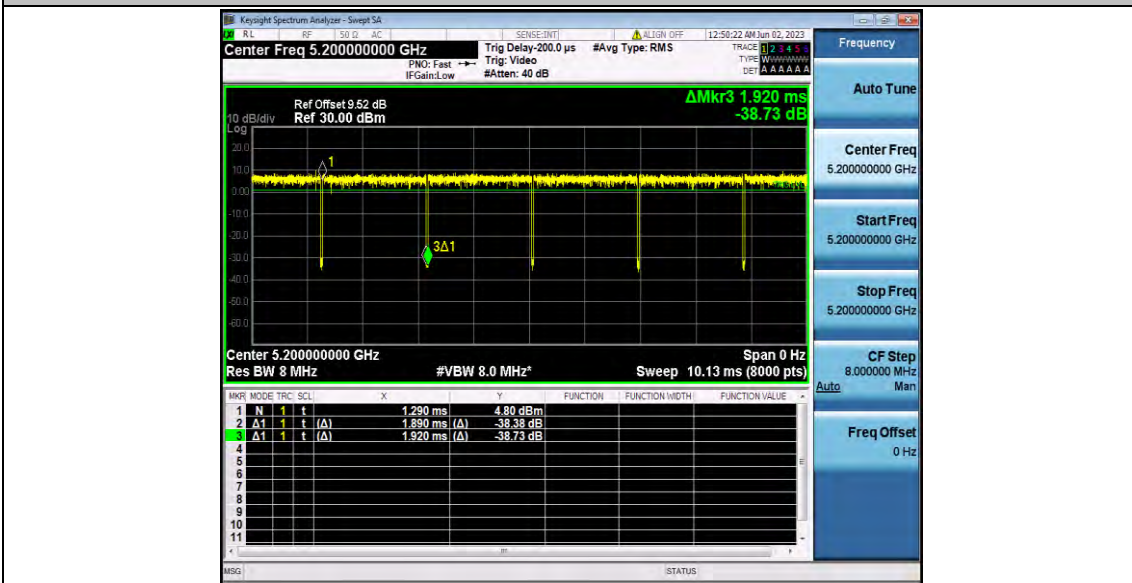
11A_Ant1_5200



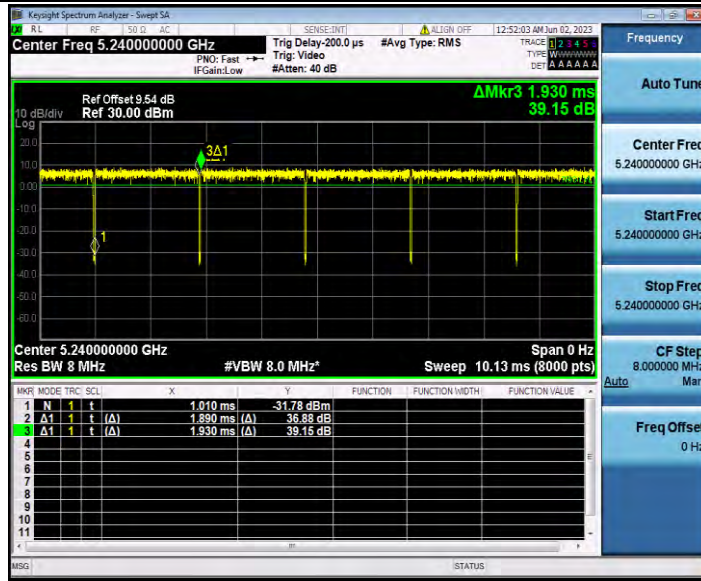
11A_Ant1_5240



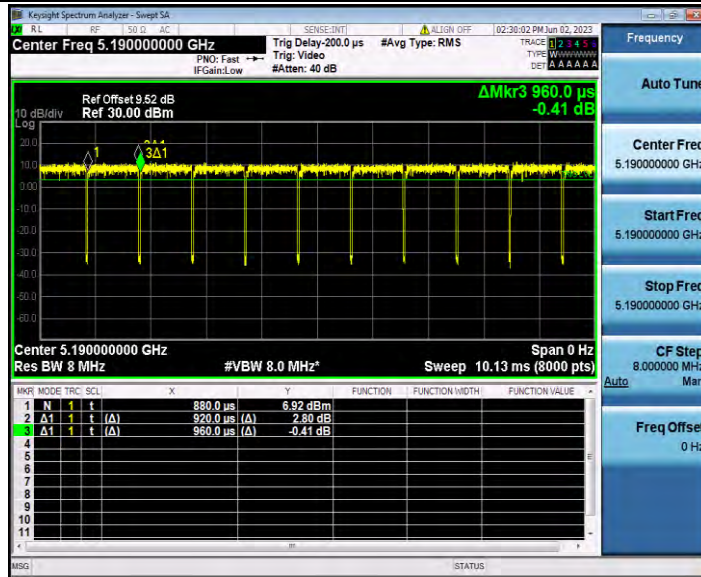
11N20SISO_Ant1_5180



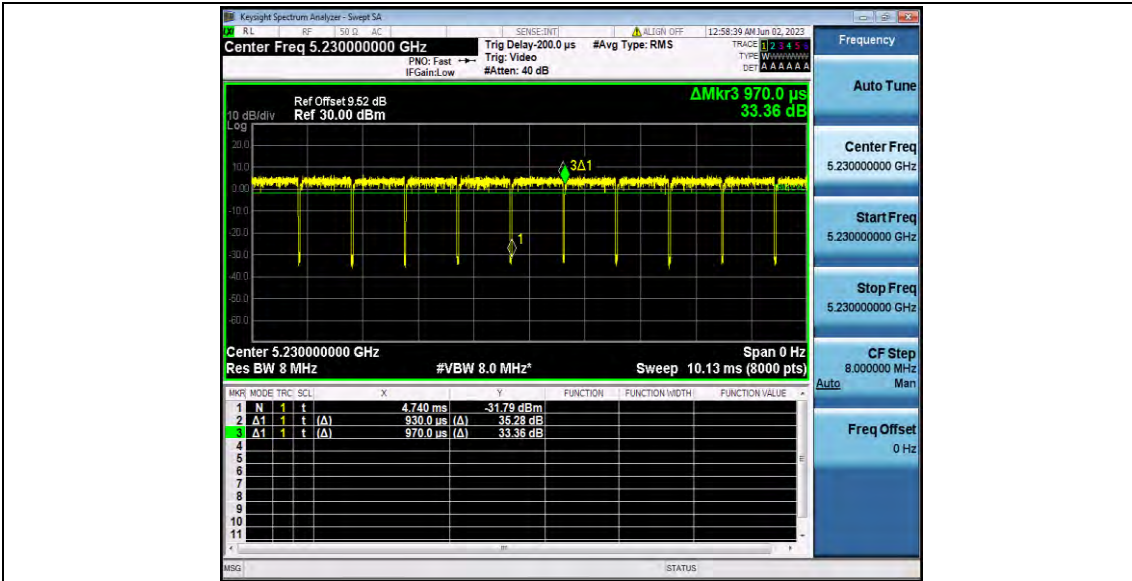
11N20SISO_Ant1_5200



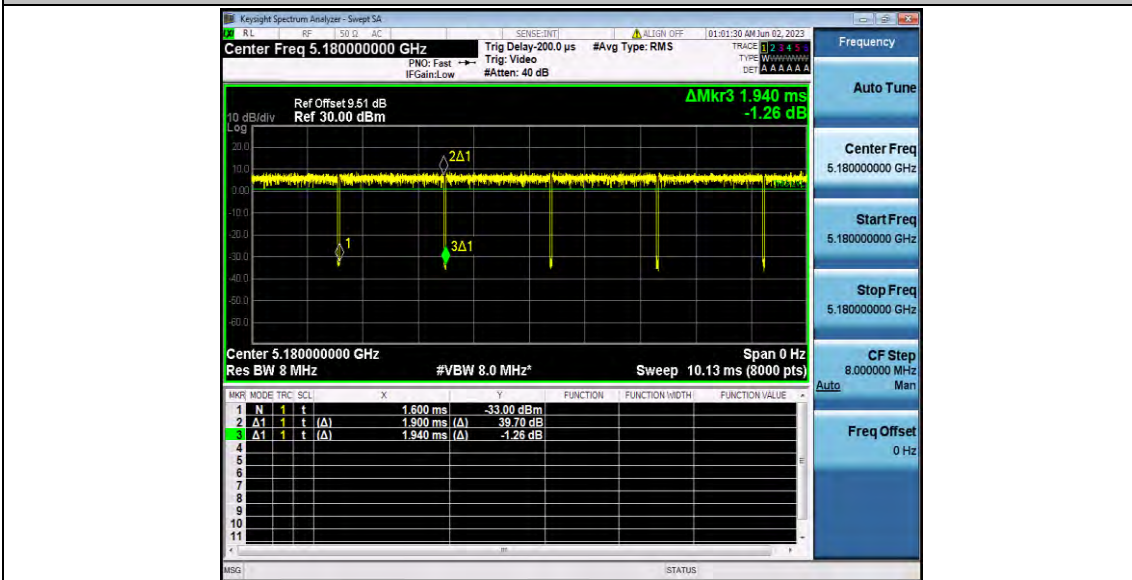
11N20SISO_Ant1_5240



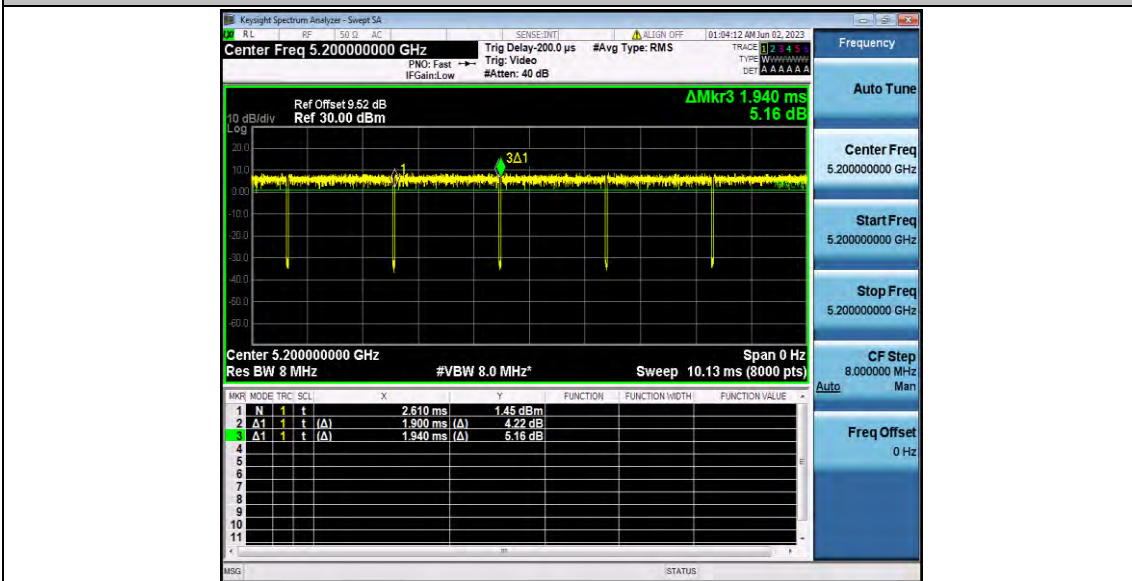
11N40SISO_Ant1_5190



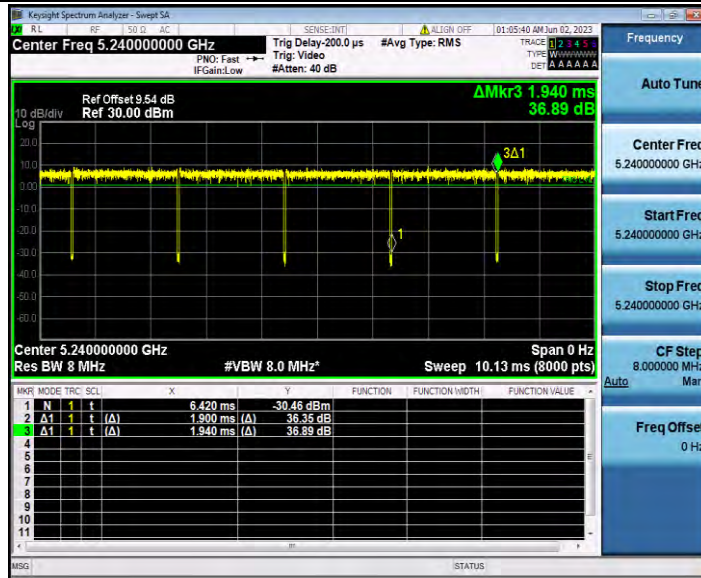
11N40SISO_Ant1_5230



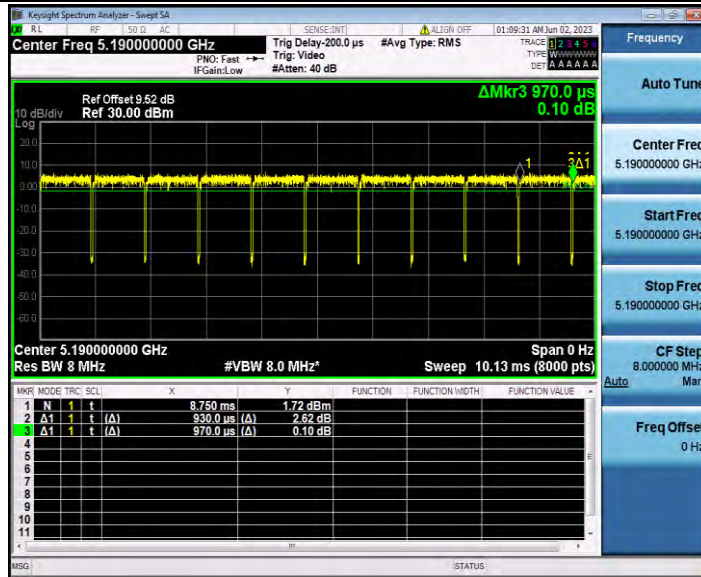
11AC20SISO_Ant1_5180



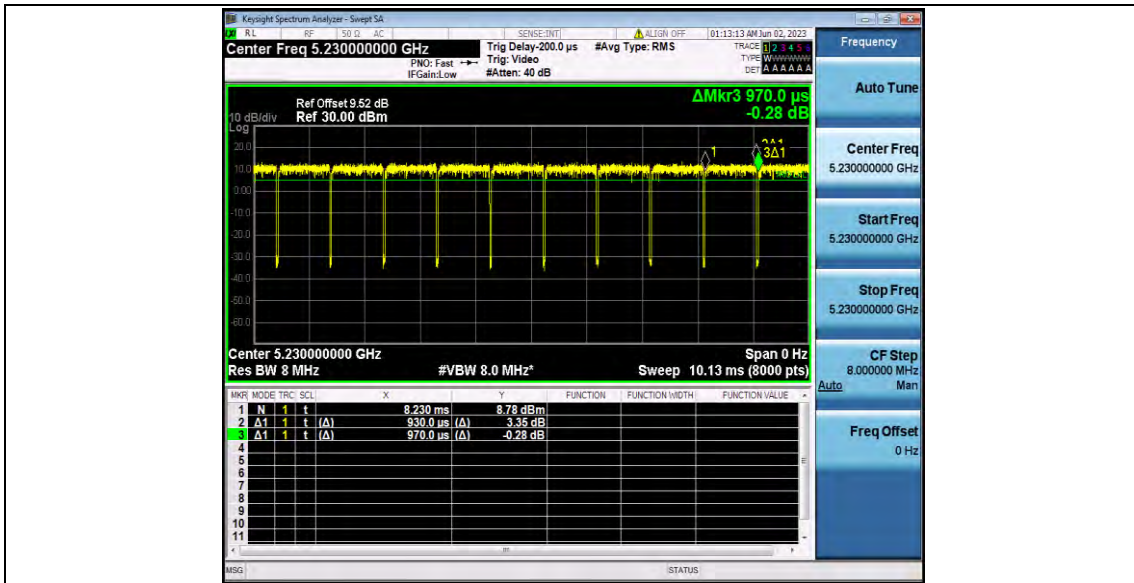
11AC20SISO_Ant1_5200



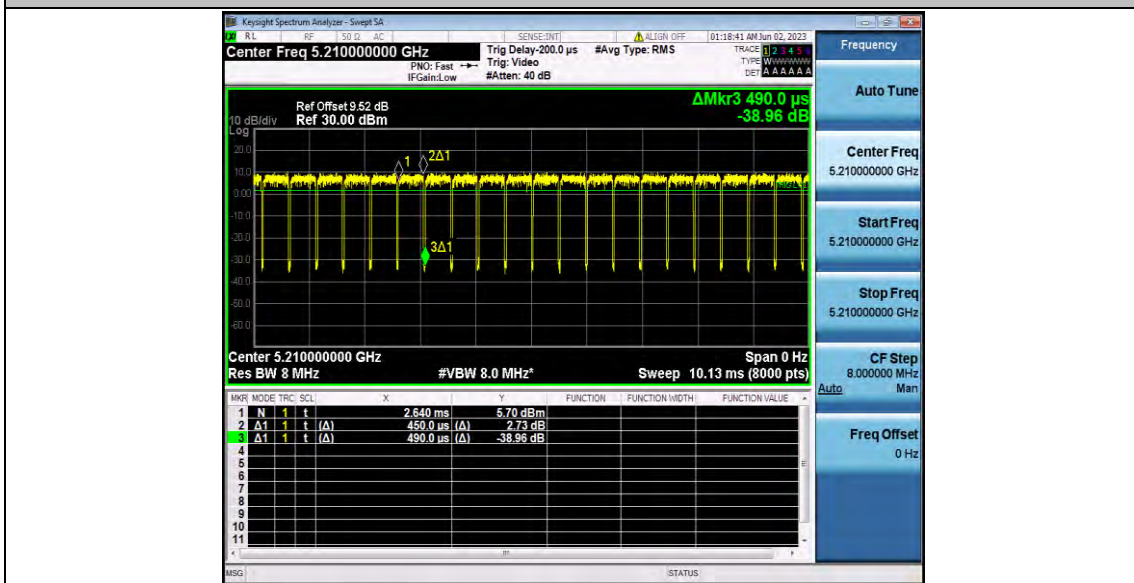
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	14.15	98.07	0.08	14.23	≤23.98	PASS
		5200	14.24	98.07	0.08	14.32	≤23.98	PASS
		5240	14.02	98.07	0.08	14.10	≤23.98	PASS
11N20SISO	Ant1	5180	13.96	97.92	0.09	14.05	≤23.98	PASS
		5200	14.11	98.44	0.07	14.18	≤23.98	PASS
		5240	13.83	97.93	0.09	13.92	≤23.98	PASS
11N40SISO	Ant1	5190	14.67	95.83	0.18	14.85	≤23.98	PASS
		5230	14.39	95.88	0.18	14.57	≤23.98	PASS
11AC20SISO	Ant1	5180	14.00	97.94	0.09	14.09	≤23.98	PASS
		5200	14.18	97.94	0.09	14.27	≤23.98	PASS
		5240	13.97	97.94	0.09	14.06	≤23.98	PASS
11AC40SISO	Ant1	5190	14.59	95.88	0.18	14.77	≤23.98	PASS
		5230	14.41	95.88	0.18	14.59	≤23.98	PASS
11AC80SISO	Ant1	5210	14.25	91.84	0.37	14.62	≤23.98	PASS

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

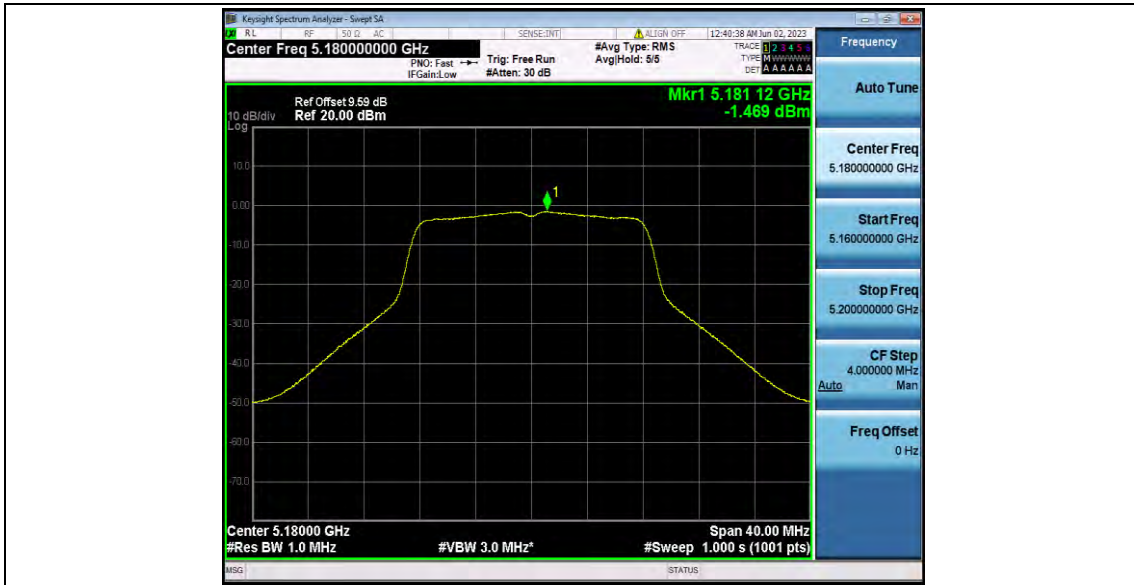
Appendix D.5: Maximum power spectral density

Test Result

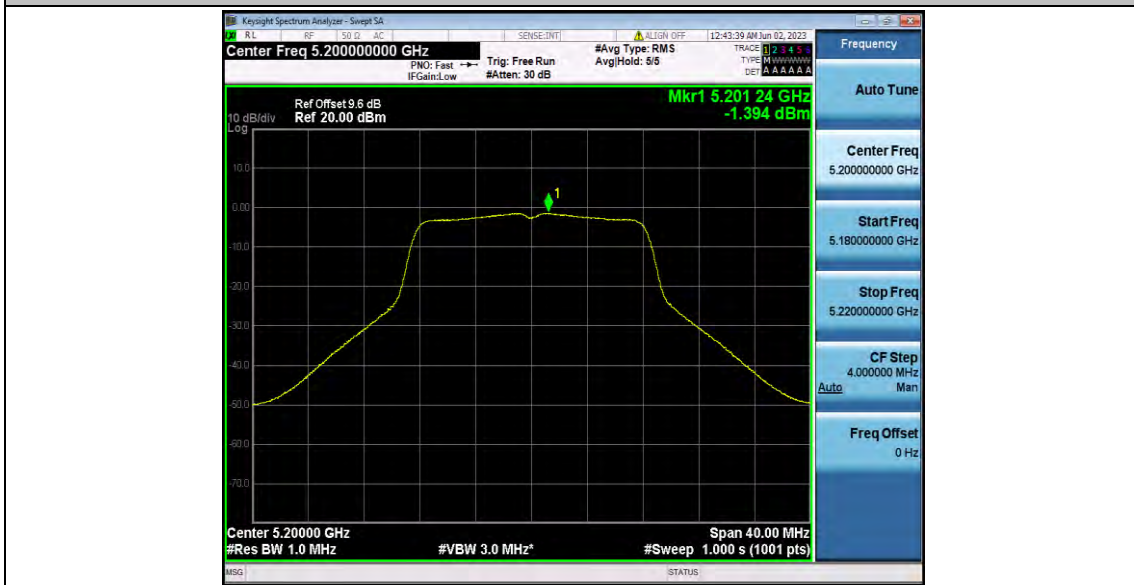
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.47	≤11.00	PASS
		5200	-1.39	≤11.00	PASS
		5240	-1.48	≤11.00	PASS
11N20SISO	Ant1	5180	-1.87	≤11.00	PASS
		5200	-1.97	≤11.00	PASS
		5240	-1.98	≤11.00	PASS
11N40SISO	Ant1	5190	0.77	≤11.00	PASS
		5230	-4.2	≤11.00	PASS
11AC20SISO	Ant1	5180	-2.03	≤11.00	PASS
		5200	-1.95	≤11.00	PASS
		5240	-1.91	≤11.00	PASS
11AC40SISO	Ant1	5190	-4.21	≤11.00	PASS
		5230	2.51	≤11.00	PASS
11AC80SISO	Ant1	5210	-0.79	≤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.

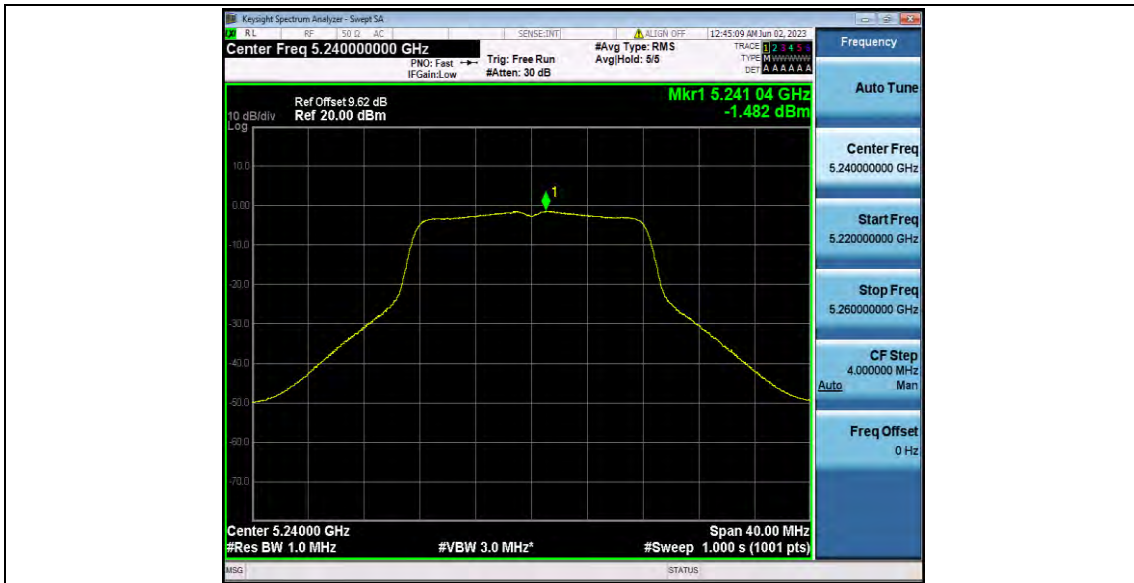
Test Graphs



11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



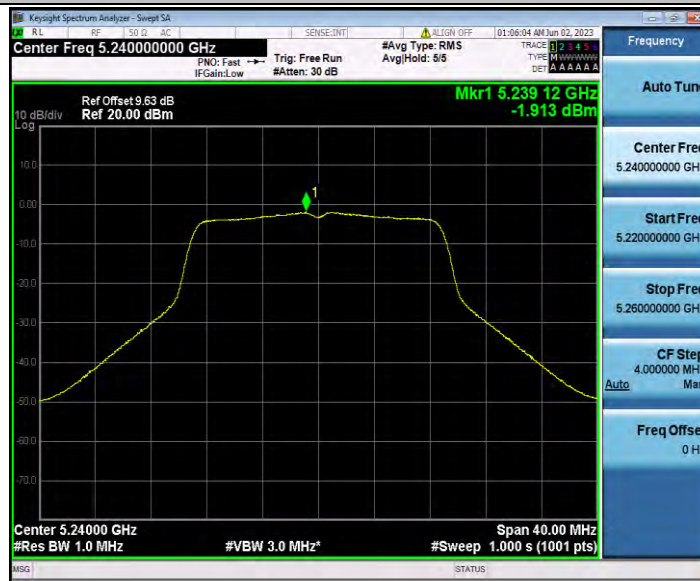
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



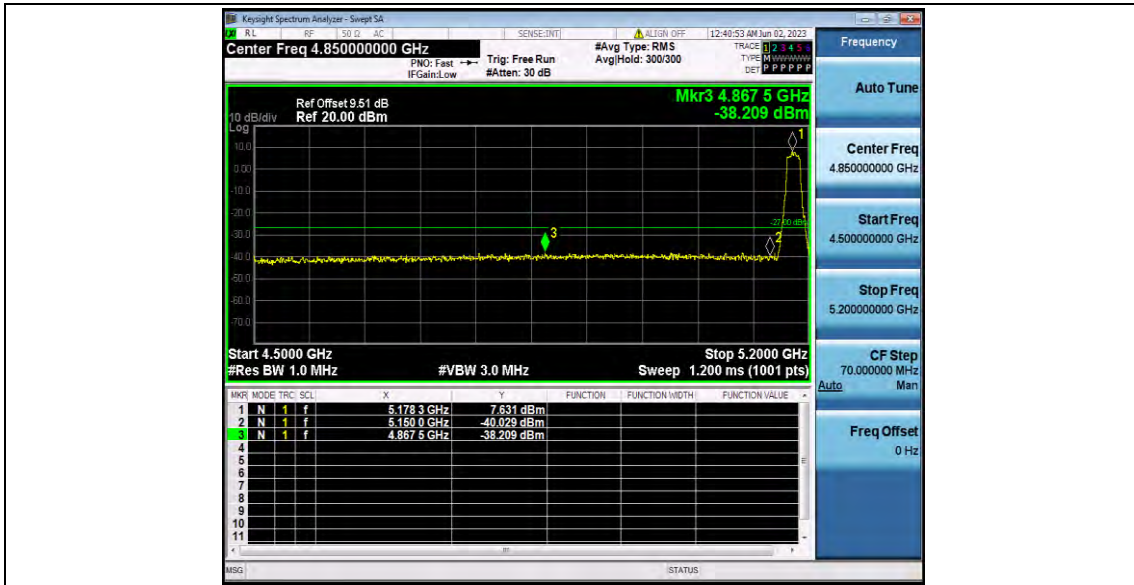
11AC80SISO_Ant1_5210

Appendix D.6: Band edge measurements

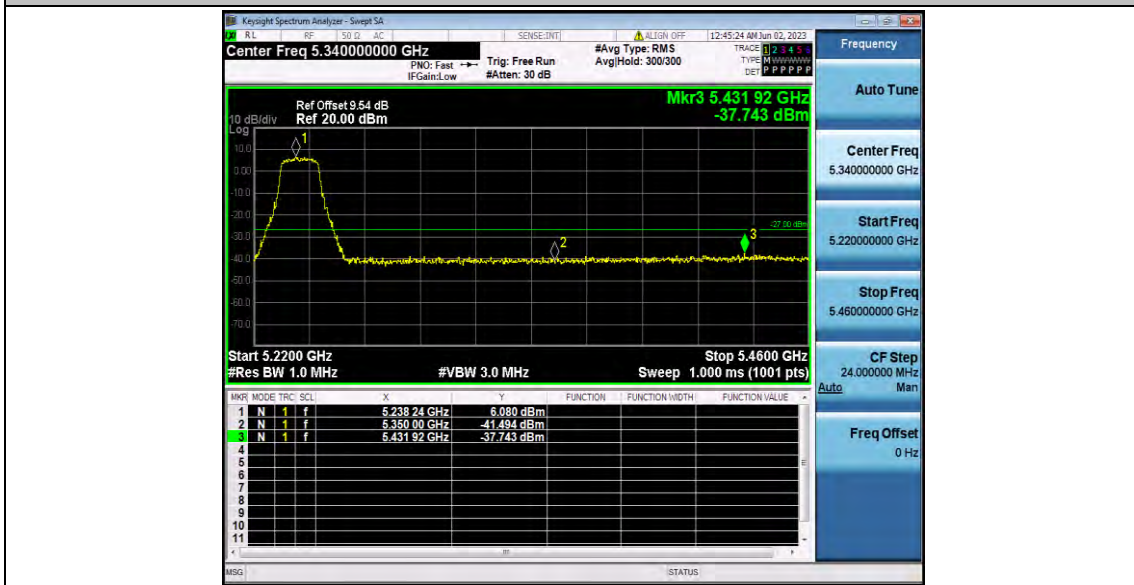
Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-38.21	≤ -27	PASS
		High	5240	-37.74	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-37.68	≤ -27	PASS
		High	5240	-37.78	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-35.49	≤ -27	PASS
		High	5230	-37.66	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-37.84	≤ -27	PASS
		High	5240	-37.63	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-37.23	≤ -27	PASS
		High	5230	-37.28	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-27.24	≤ -27	PASS
		High	5210	-38.31	≤ -27	PASS

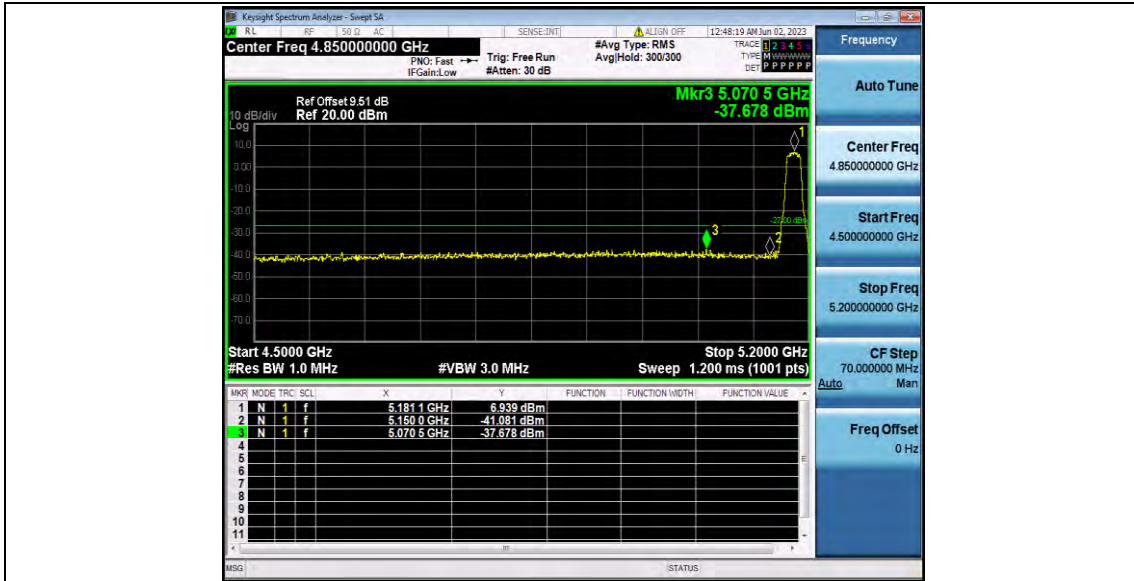
Test Graphs B1



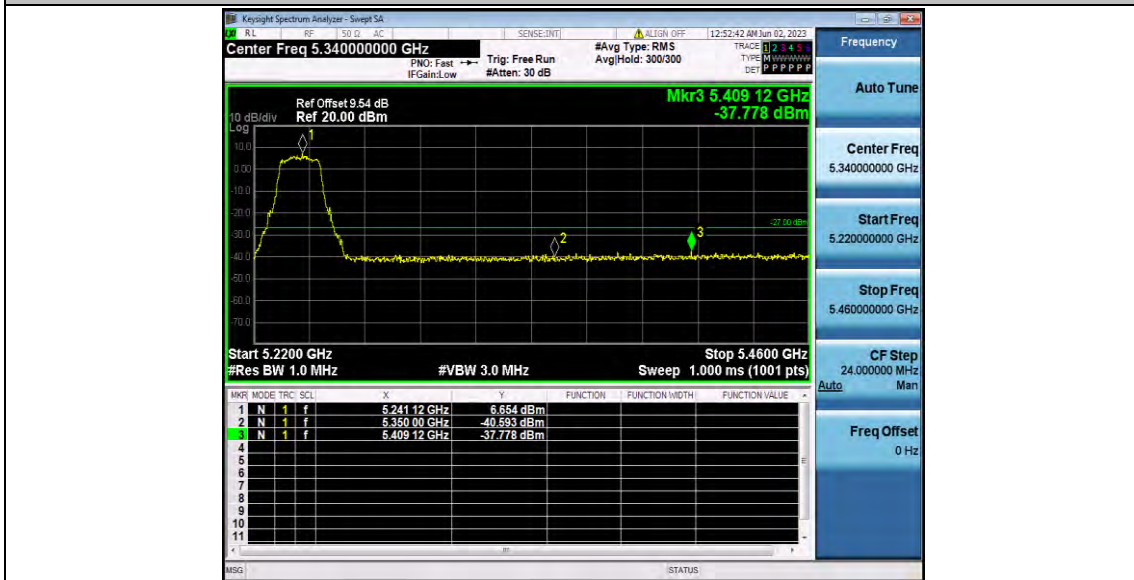
11A_Ant1_Low_5180



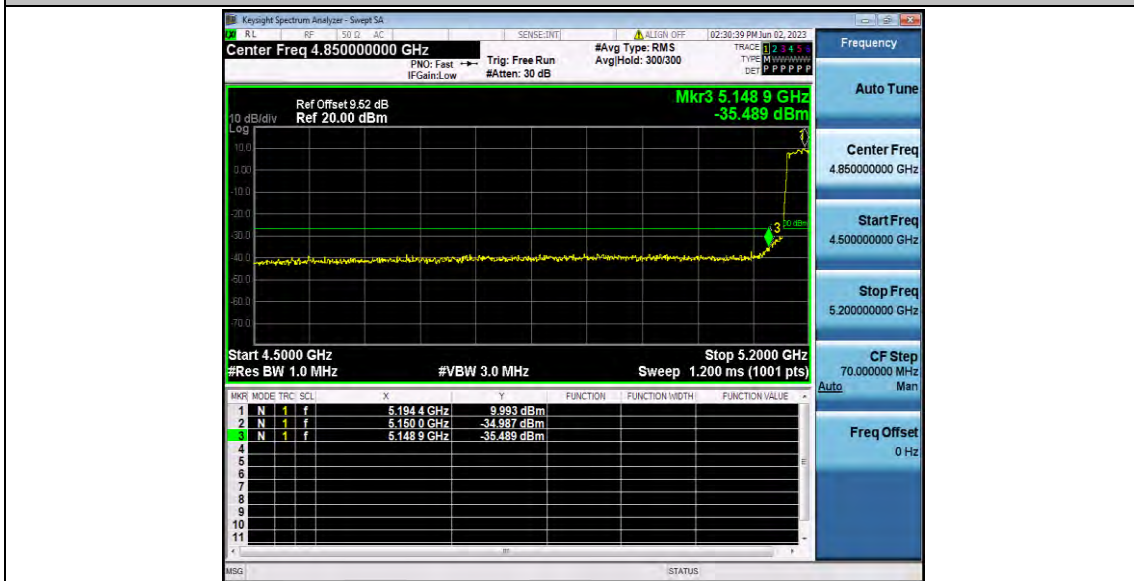
11A_Ant1_High_5240



11N20SISO_Ant1_Low_5180



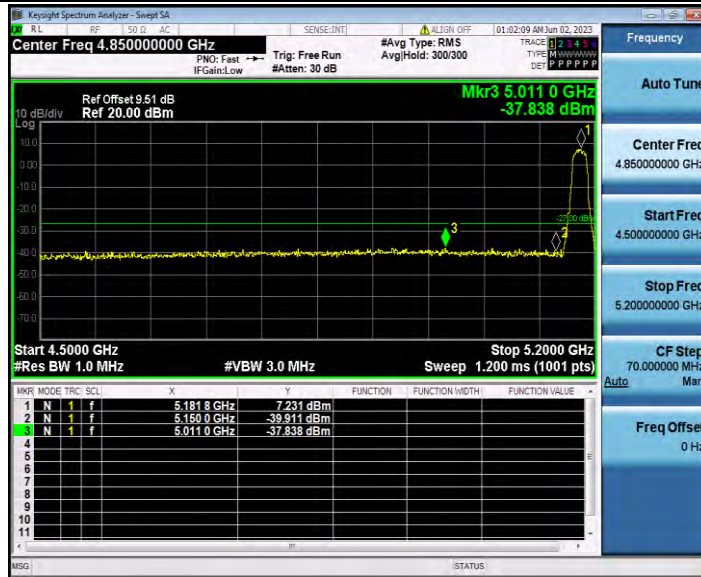
11N20SISO_Ant1_High_5240



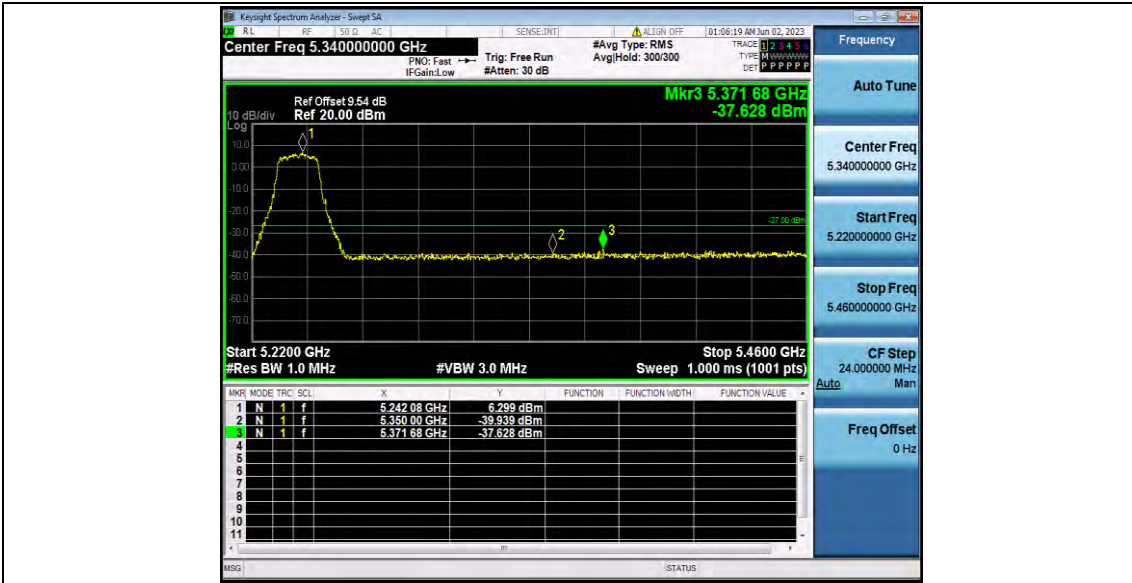
11N40SISO_Ant1_Low_5190



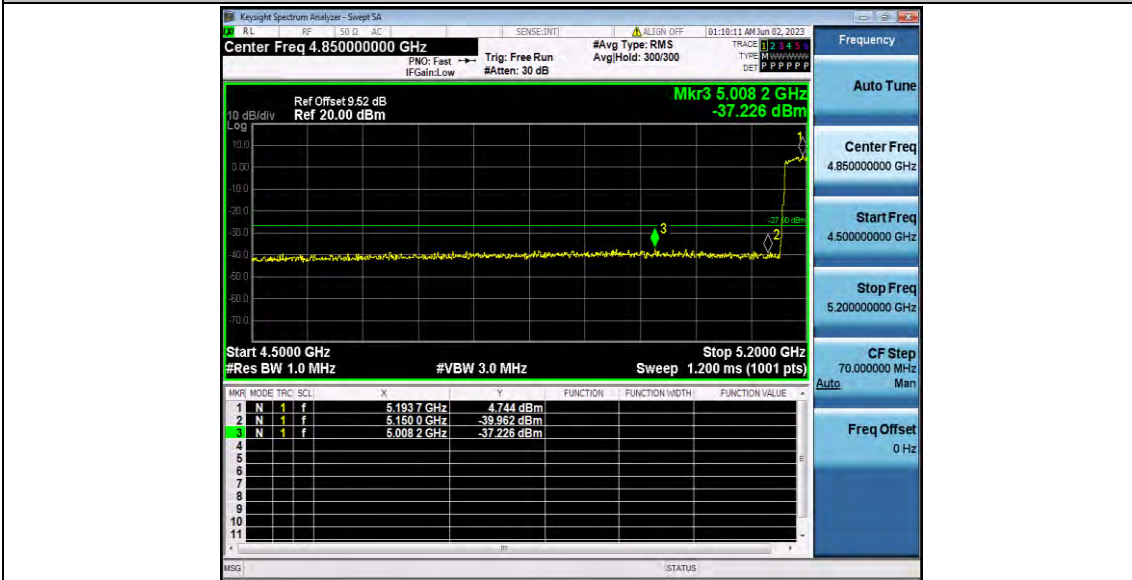
11N40SISO_Ant1_High_5230



11AC20SISO_Ant1_Low_5180



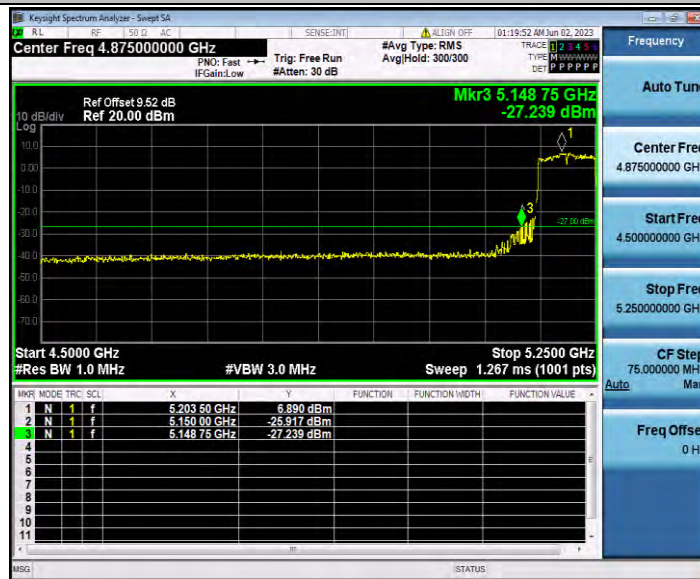
11AC20SISO_Ant1_High_5240



11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210