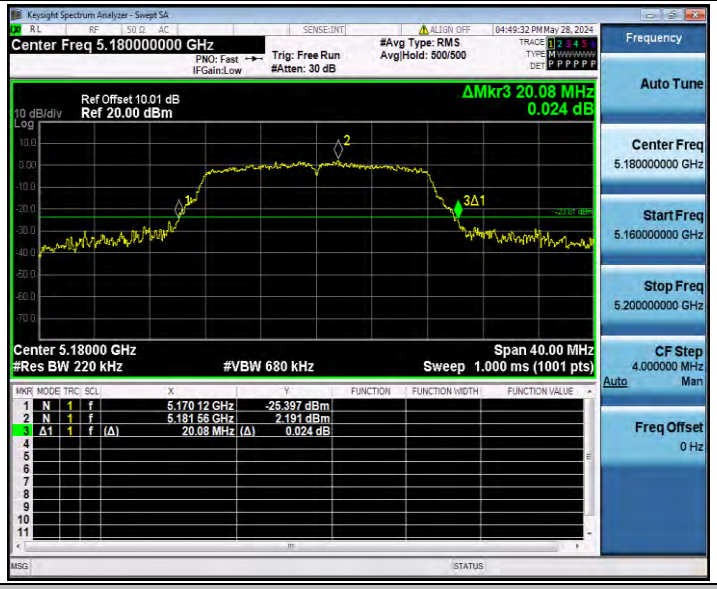
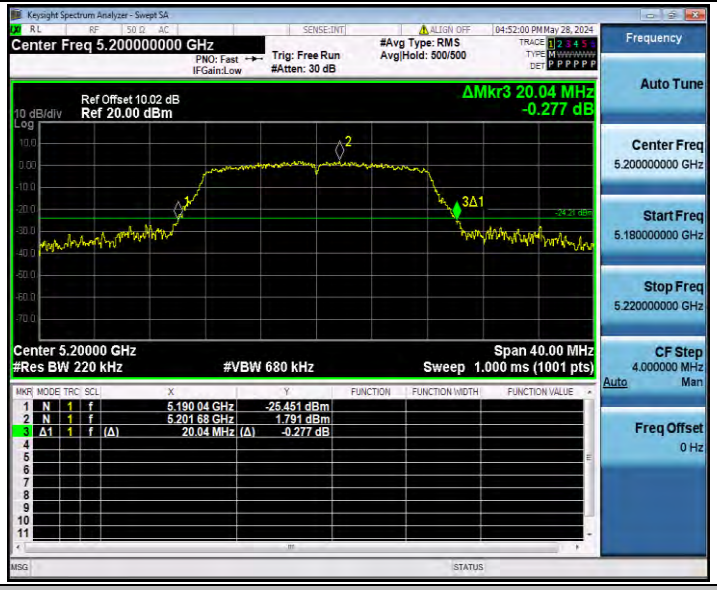
Case No. : CTA24053000404	
Ambient Condition: 24 ℃, 49 %RH	
According Standard: ■Part15E	
Test Date: 2024.5.28	**Test Engineer:** Evan ouyang

Appendix D.1: Emission Bandwidth

Test Result

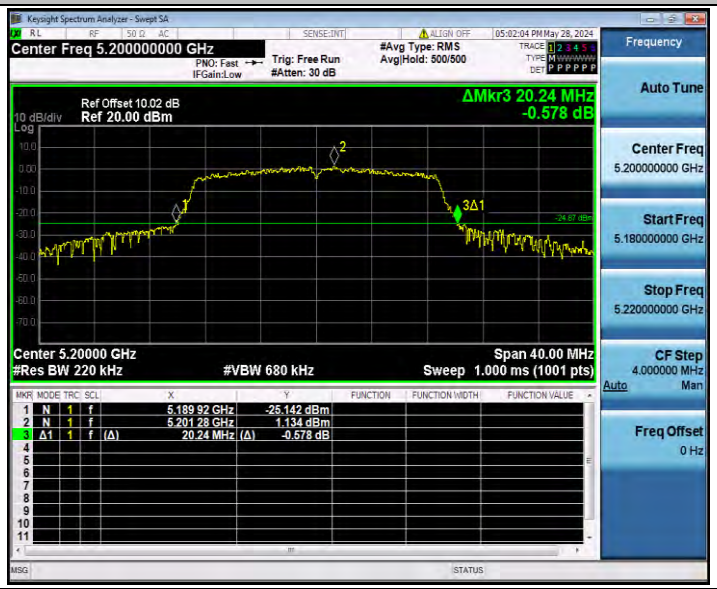
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	20.080	5170.120	5190.200
		5200	20.040	5190.040	5210.080
		5240	19.840	5230.080	5249.920
11N20SISO	Ant1	5180	20.280	5169.880	5190.160
		5200	20.240	5189.920	5210.160
		5240	20.280	5229.960	5250.240
11N40SISO	Ant1	5190	40.880	5169.760	5210.640
		5230	40.320	5210.000	5250.320
11AC20SISO	Ant1	5180	20.240	5169.960	5190.200
		5200	20.320	5189.880	5210.200
		5240	20.480	5229.840	5250.320
11AC40SISO	Ant1	5190	41.040	5169.520	5210.560
		5230	40.720	5209.680	5250.400
11AC80SISO	Ant1	5210	81.280	5169.680	5250.960

Test Graphs

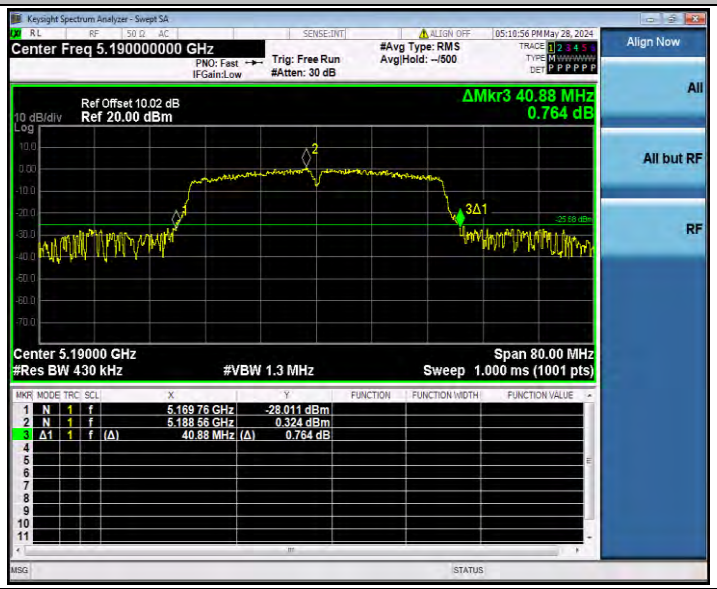
11A_Ant1_5180

11A_Ant1_5200

11A_Ant1_5240

11N20SISO_Ant1_5180

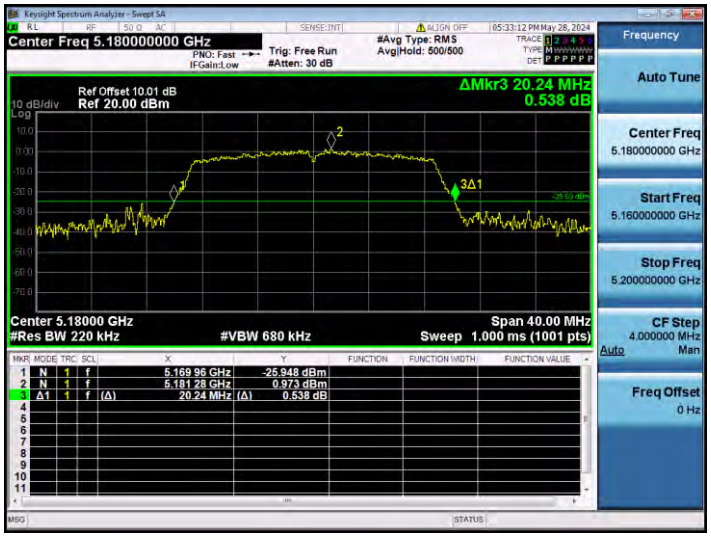
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240

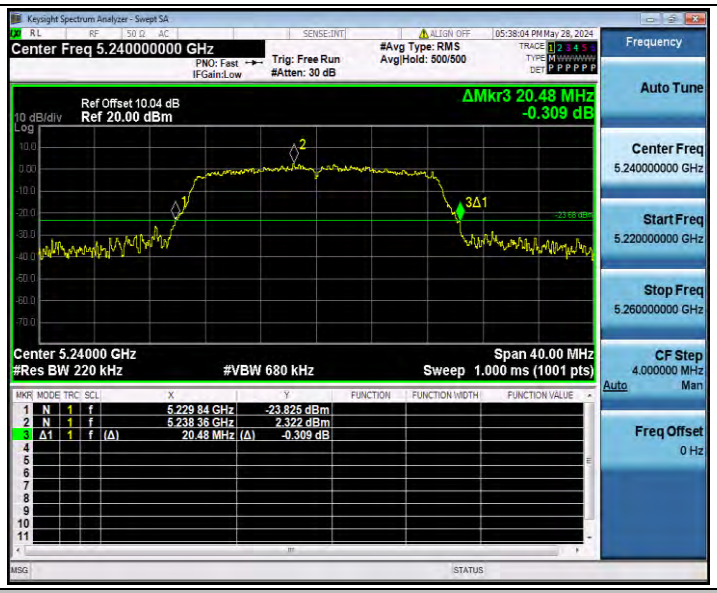
11N40SISO_Ant1_5190

11N40SISO_Ant1_5230

11AC20SISO_Ant1_5180



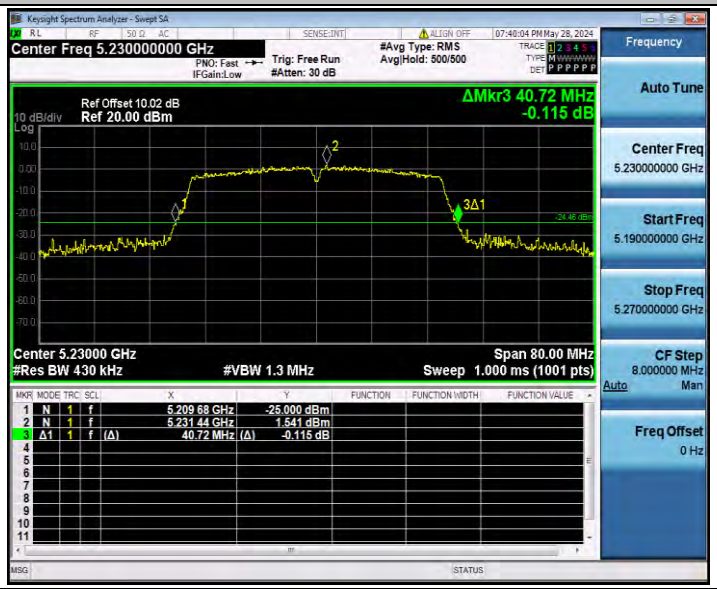
11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190

11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210


Appendix D.2: Occupied channel bandwidth

Test Result

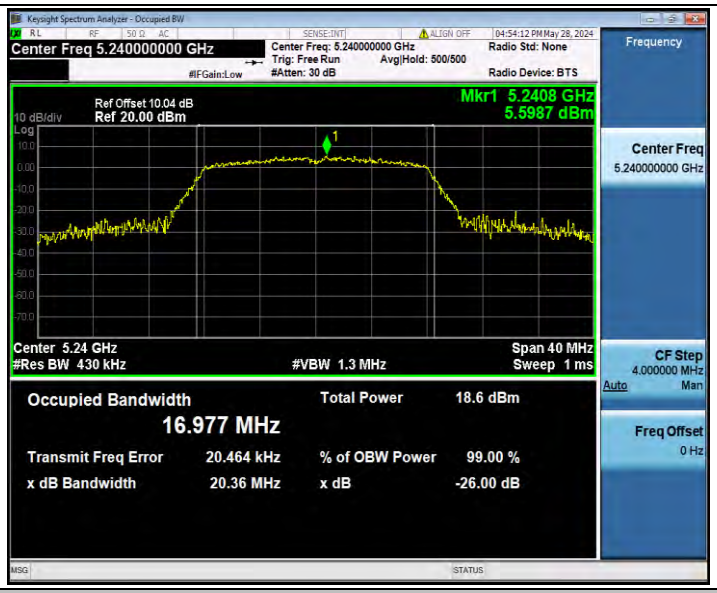
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	16.965	5171.5455	5188.5105
		5200	16.976	5191.5485	5208.5245
		5240	16.977	5231.5320	5248.5090
11N20SISO	Ant1	5180	17.978	5171.0342	5189.0122
		5200	17.953	5191.0645	5209.0175
		5240	17.960	5231.0268	5248.9868
11N40SISO	Ant1	5190	36.525	5171.8333	5208.3583
		5230	36.505	5211.7927	5248.2977
11AC20SISO	Ant1	5180	17.861	5171.1279	5188.9889
		5200	17.842	5191.1216	5208.9636
		5240	17.853	5231.0983	5248.9513
11AC40SISO	Ant1	5190	36.243	5171.9997	5208.2427
		5230	36.214	5211.9268	5248.1408
11AC80SISO	Ant1	5210	75.252	5172.5676	5247.8196

Test Graphs

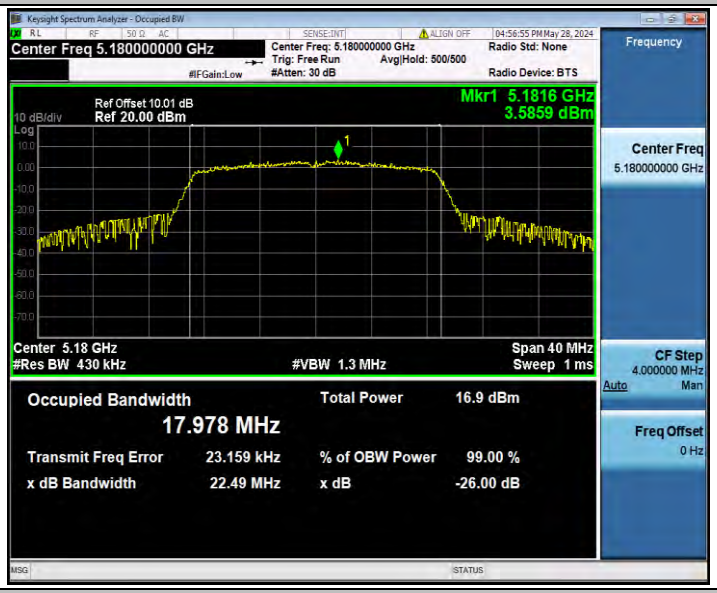
11A_Ant1_5180

11A_Ant1_5200

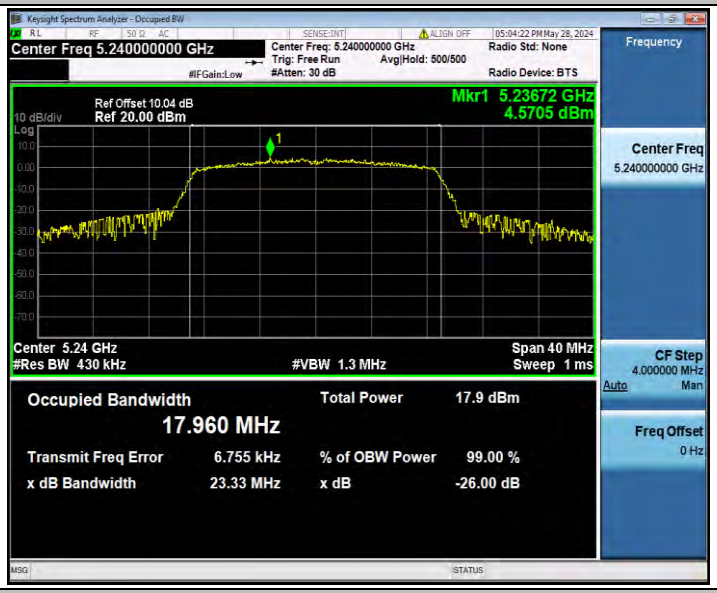
11A_Ant1_5240



11N20SISO_Ant1_5180

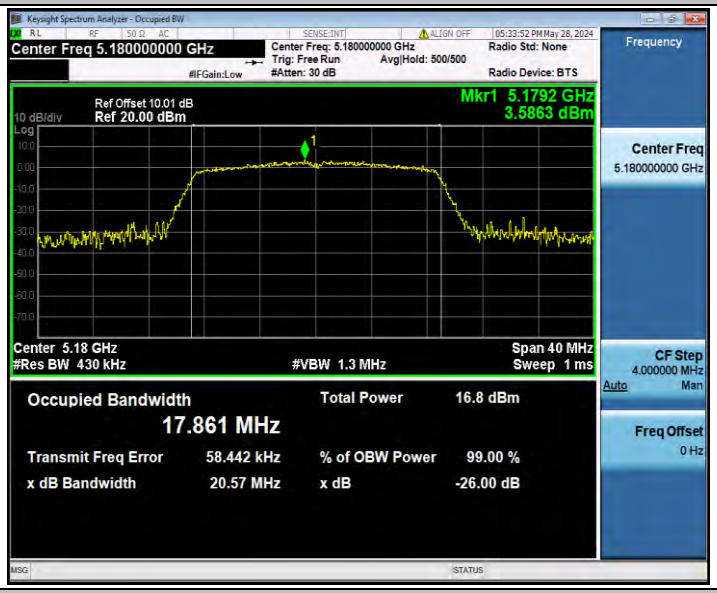


11N20SISO_Ant1_5200

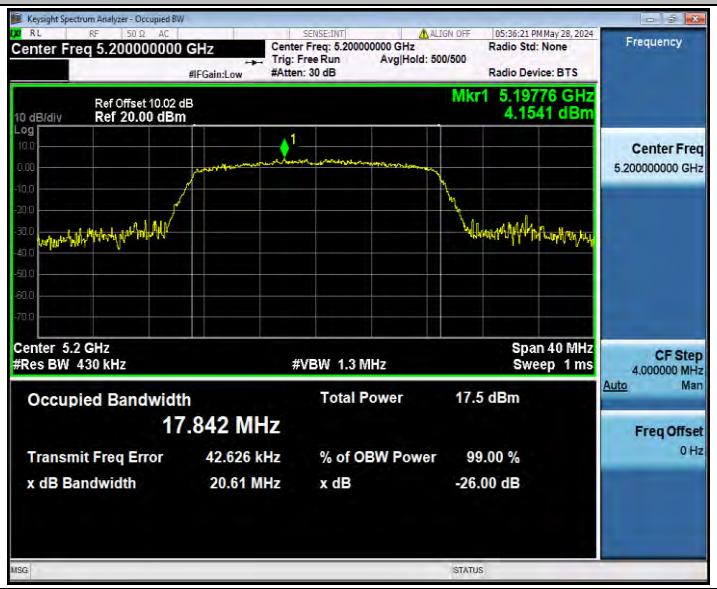
11N20SISO_Ant1_5240

11N40SISO_Ant1_5190

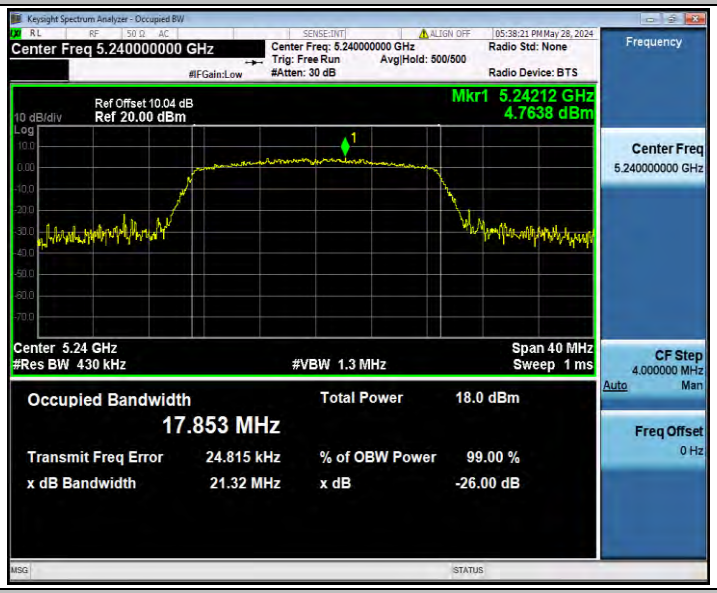
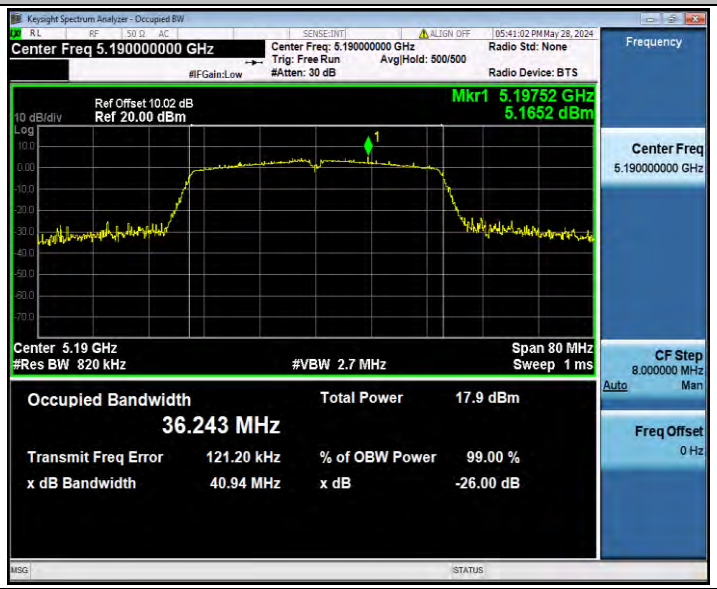
11N40SISO_Ant1_5230

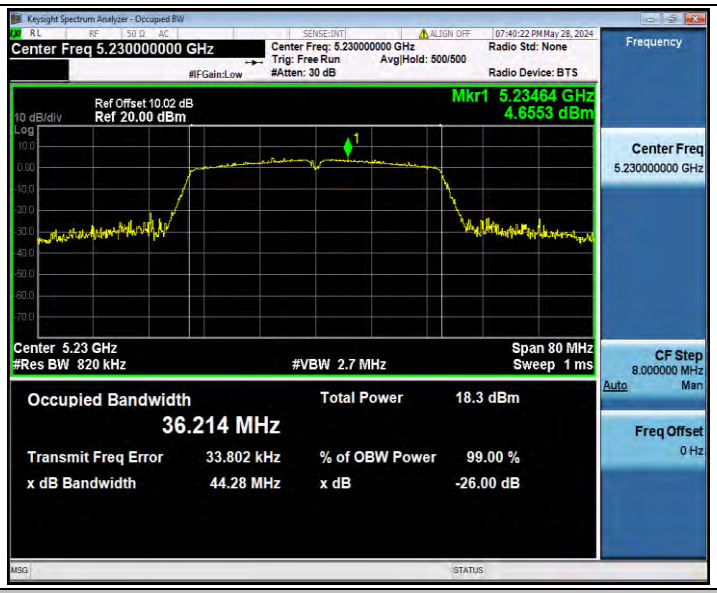
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240

11AC40SISO_Ant1_5190

11AC40SISO_Ant1_5230



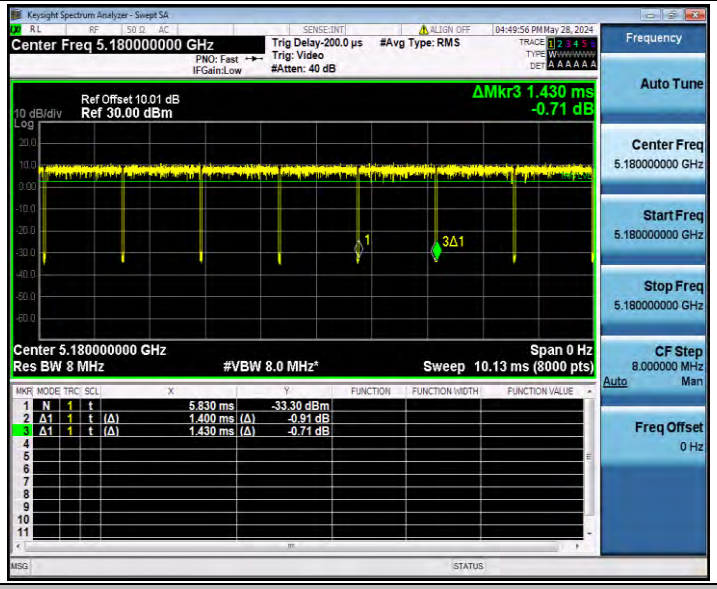
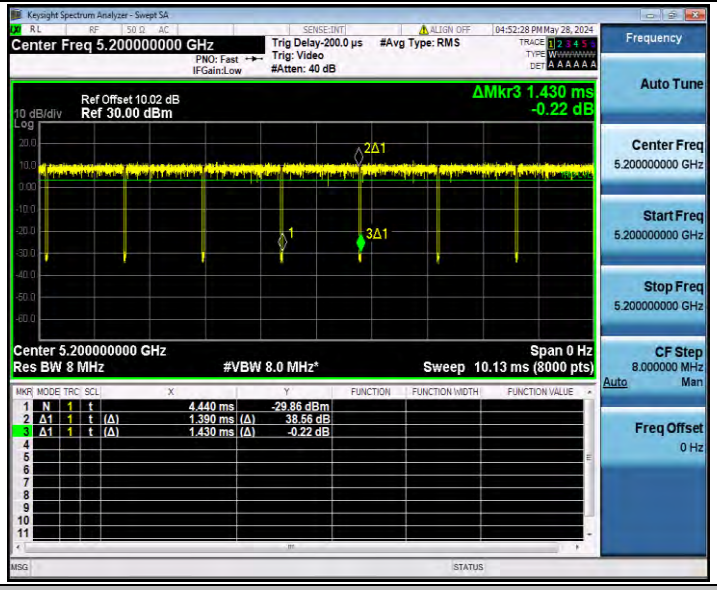
11AC80SISO_Ant1_5210

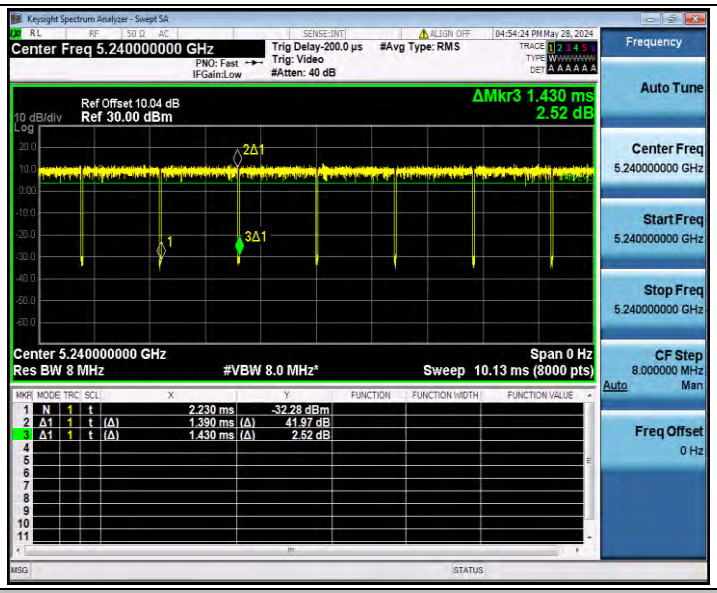
Appendix D.3: Duty Cycle

Test Result

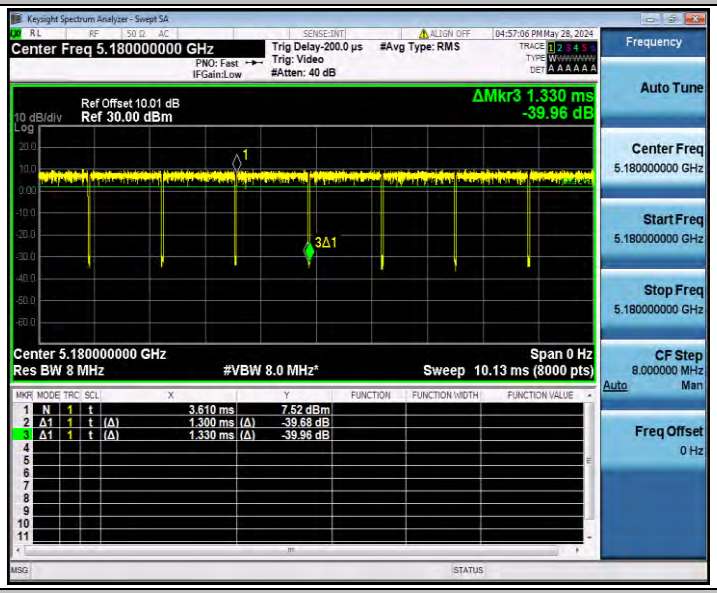
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	1.40	1.43	97.90	0.09	0.71
		5200	1.39	1.43	97.20	0.12	0.72
		5240	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5180	1.30	1.33	97.74	0.10	0.77
		5200	1.30	1.34	97.01	0.13	0.77
		5240	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5190	0.65	0.68	95.59	0.20	1.54
		5230	0.65	0.68	95.59	0.20	1.54
11AC20SISO	Ant1	5180	1.31	1.35	97.04	0.13	0.76
		5200	1.31	1.34	97.76	0.10	0.76
		5240	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5190	0.65	0.69	94.20	0.26	1.54
		5230	0.65	0.69	94.20	0.26	1.54
11AC80SISO	Ant1	5210	0.33	0.36	91.67	0.38	3.03

Test Graphs

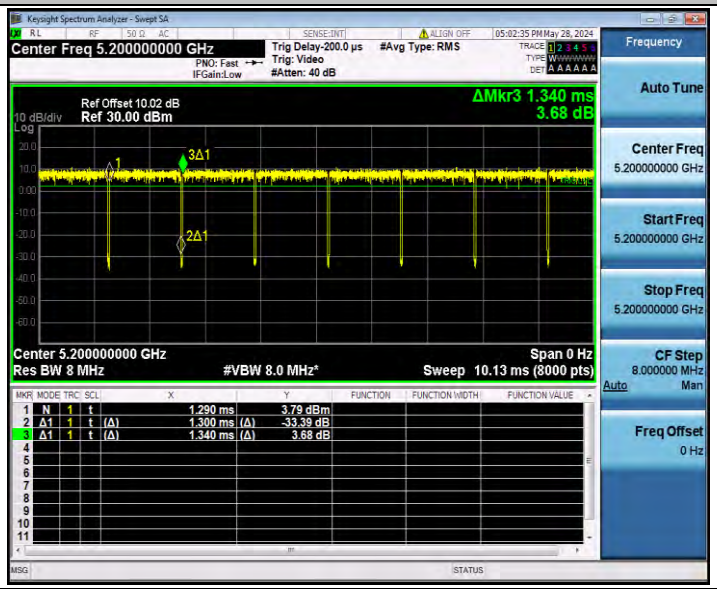
11A_Ant1_5180

11A_Ant1_5200

11A_Ant1_5240

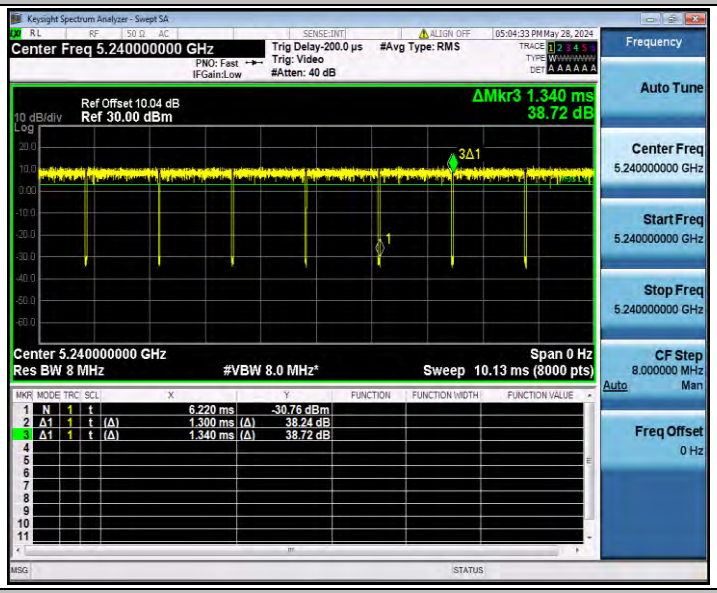
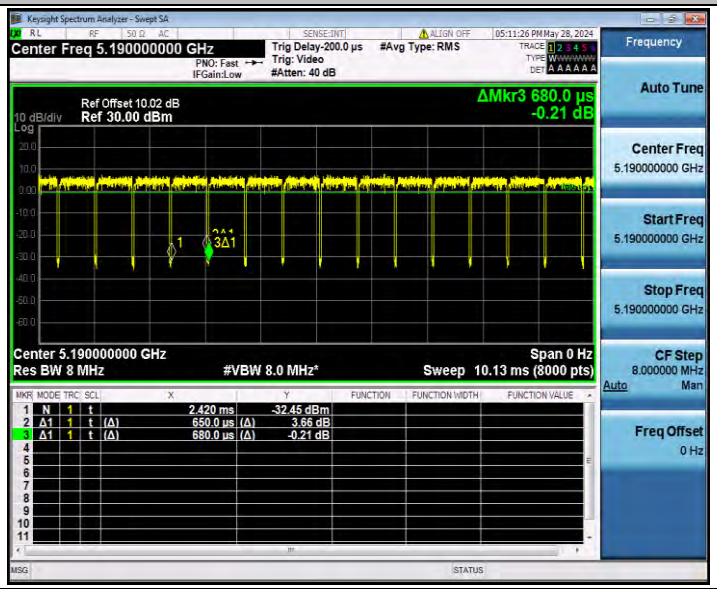


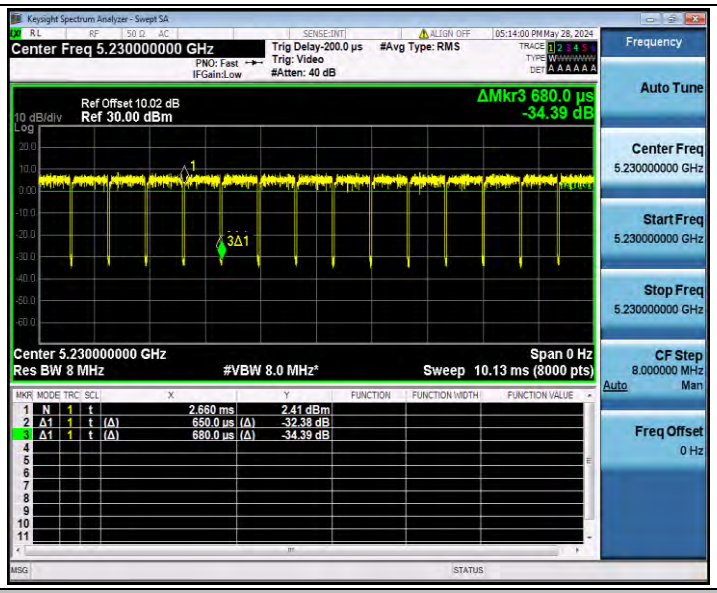
11N20SISO_Ant1_5180



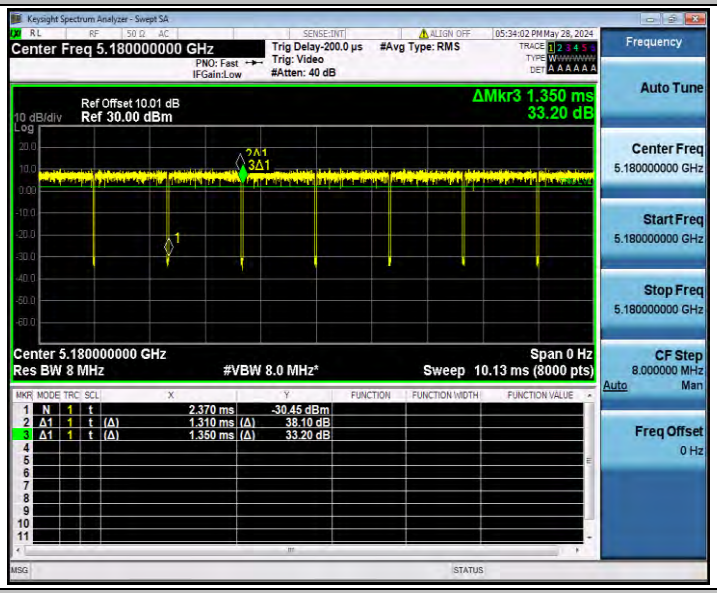
11N20SISO_Ant1_5200



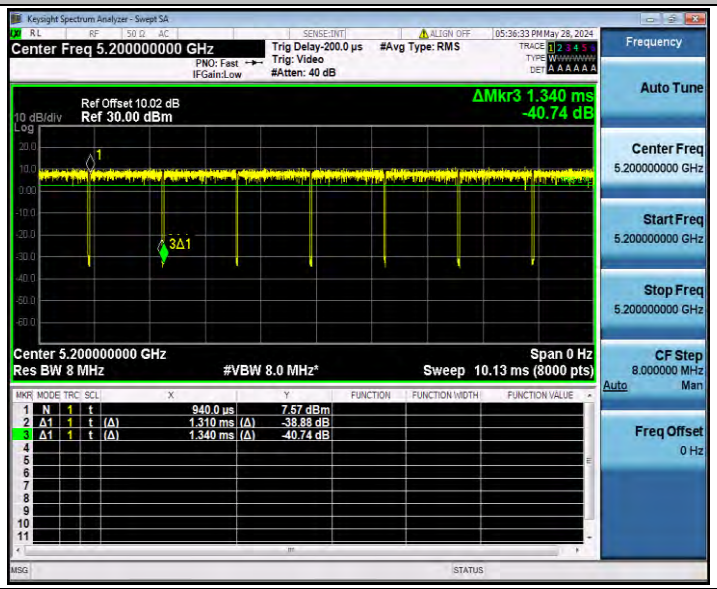
11N20SISO_Ant1_5240

11N40SISO_Ant1_5190

11N40SISO_Ant1_5230

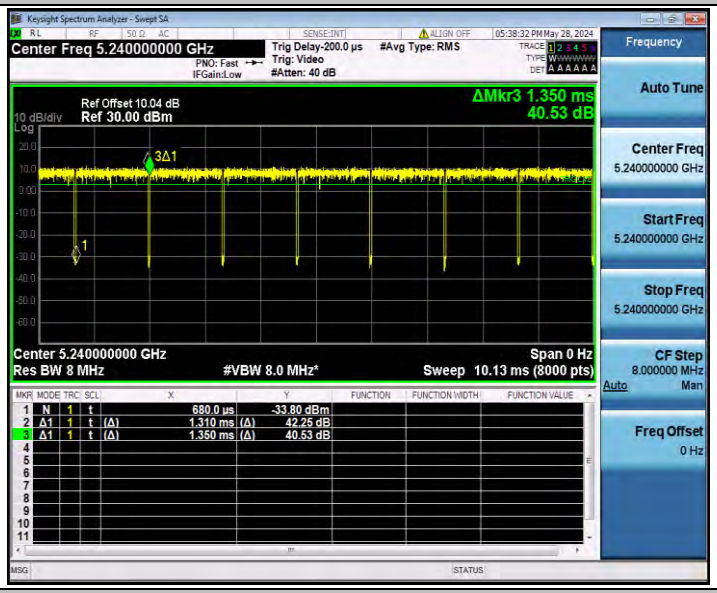
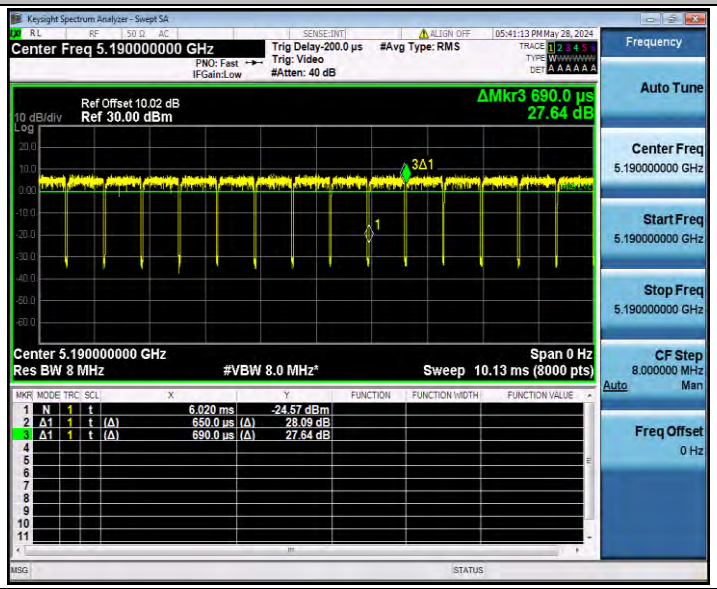


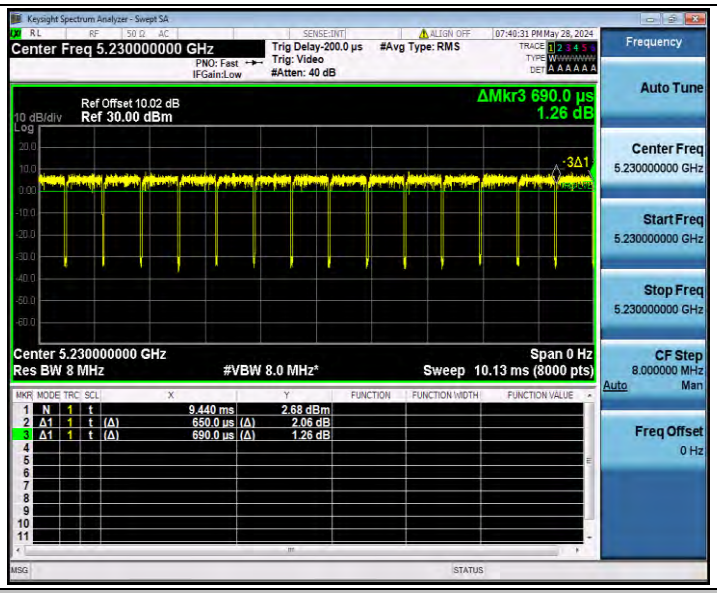
11AC20SISO_Ant1_5180



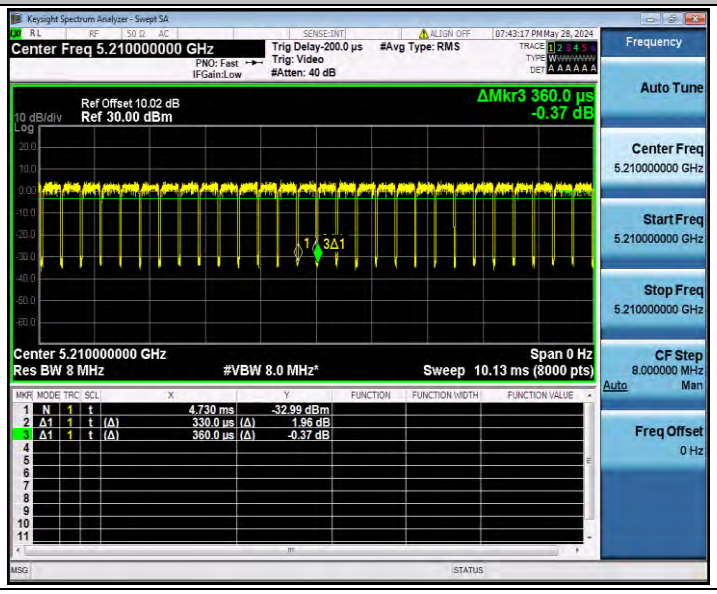
11AC20SISO_Ant1_5200



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	Freq(MHz)	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	10.65	97.90	0.09	10.74	≤23.98	PASS
		5200	11.22	97.20	0.12	11.34	≤23.98	PASS
		5240	11.75	97.20	0.12	11.87	≤23.98	PASS
11N20SISO	Ant1	5180	9.98	97.74	0.10	10.08	≤23.98	PASS
		5200	10.43	97.01	0.13	10.56	≤23.98	PASS
		5240	11.03	97.01	0.13	11.16	≤23.98	PASS
11N40SISO	Ant1	5190	10.05	95.59	0.20	10.25	≤23.98	PASS
		5230	10.78	95.59	0.20	10.98	≤23.98	PASS
11AC20SISO	Ant1	5180	10.01	97.04	0.13	10.14	≤23.98	PASS
		5200	10.64	97.76	0.10	10.74	≤23.98	PASS
		5240	11.08	97.04	0.13	11.21	≤23.98	PASS
11AC40SISO	Ant1	5190	10.37	94.20	0.26	10.63	≤23.98	PASS
		5230	10.81	94.20	0.26	11.07	≤23.98	PASS
11AC80SISO	Ant1	5210	10.10	91.67	0.38	10.48	≤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 datD.

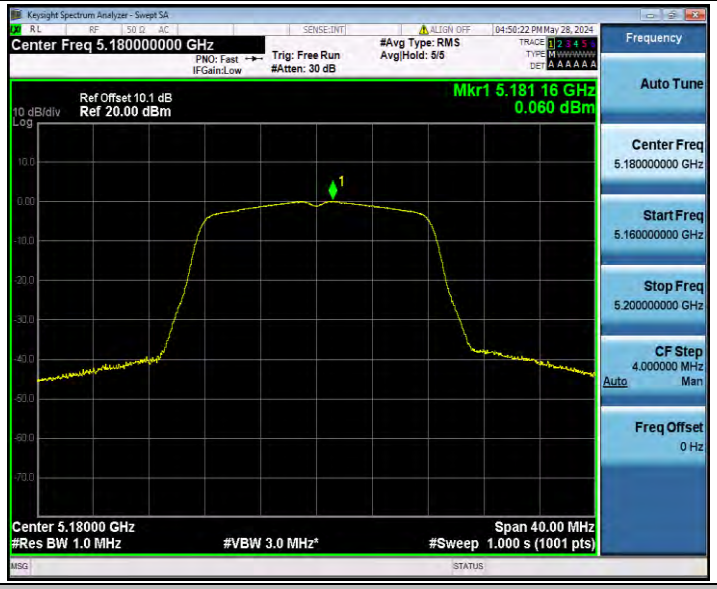
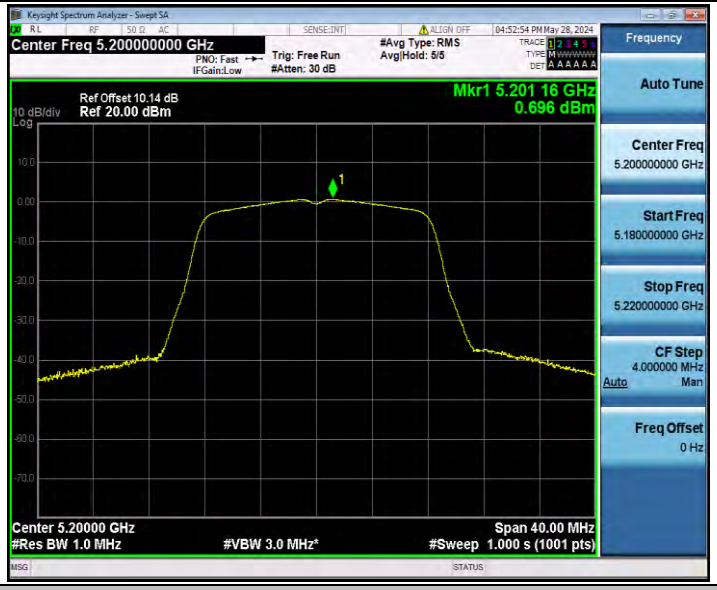
Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.06	≤11.00	PASS
		5200	0.70	≤11.00	PASS
		5240	1.28	≤11.00	PASS
11N20SISO	Ant1	5180	-0.78	≤11.00	PASS
		5200	-0.20	≤11.00	PASS
		5240	0.38	≤11.00	PASS
11N40SISO	Ant1	5190	-3.31	≤11.00	PASS
		5230	-2.56	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.73	≤11.00	PASS
		5200	-0.15	≤11.00	PASS
		5240	0.36	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.07	≤11.00	PASS
		5230	-2.51	≤11.00	PASS
11AC80SISO	Ant1	5210	-6.09	≤11.00	PASS

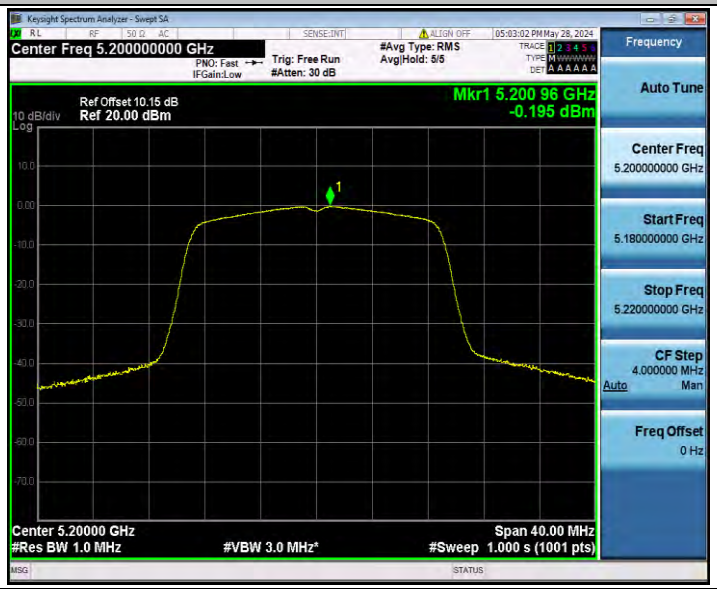
Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A_Ant1_5180

11A_Ant1_5200

11A_Ant1_5240

11N20SISO_Ant1_5180

11N20SISO_Ant1_5200



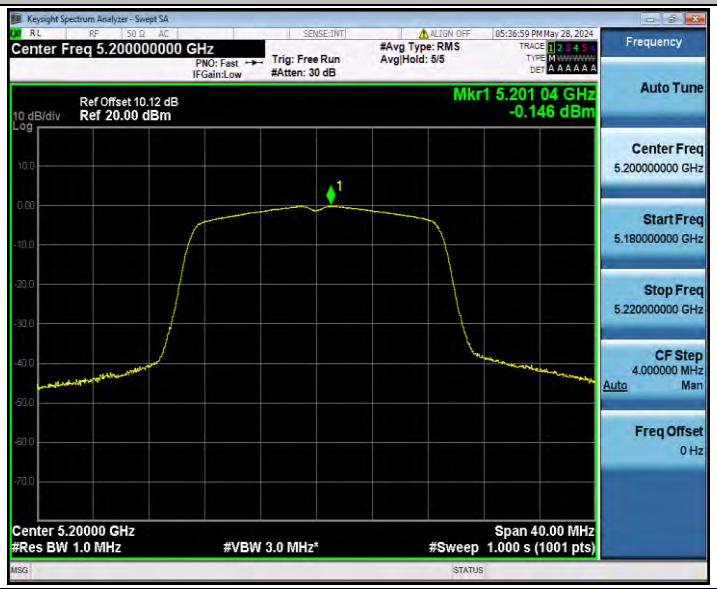
11N20SISO_Ant1_5240

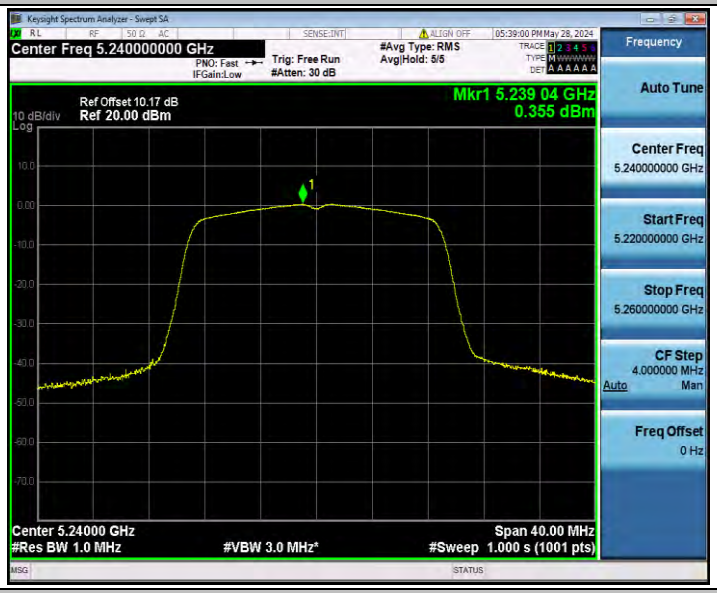
11N40SISO_Ant1_5190

11N40SISO_Ant1_5230

11AC20SISO_Ant1_5180

11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240

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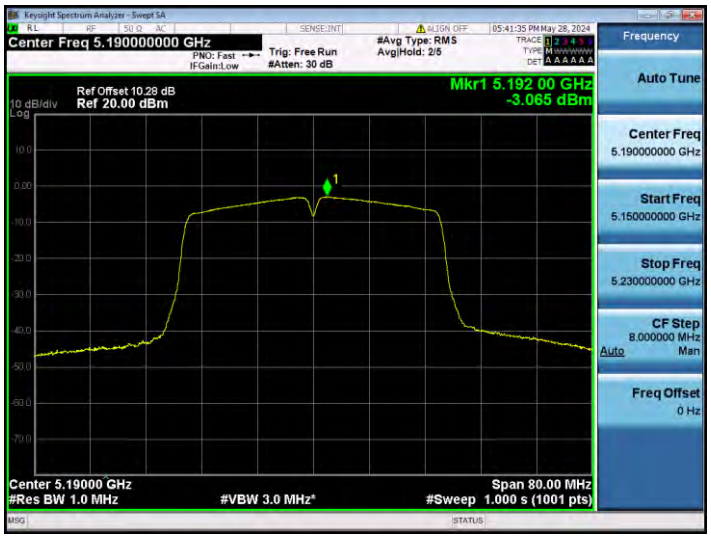
11AC40SISO_Ant1_5230


11AC80SISO_Ant1_5210