

Case No. : <u>CTA24061300404</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.6.15</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]
11A	Ant1	5180	19.880	5170.040	5189.920
		5200	20.040	5190.040	5210.080
		5240	20.040	5230.080	5250.120
11N20SISO	Ant1	5180	20.360	5169.800	5190.160
		5200	25.040	5187.200	5212.240
		5240	24.720	5227.240	5251.960
11N40SISO	Ant1	5190	41.040	5169.600	5210.640
		5230	40.560	5209.600	5250.160
11AC20SISO	Ant1	5180	20.320	5169.880	5190.200
		5200	20.320	5189.920	5210.240
		5240	20.160	5229.920	5250.080
11AC40SISO	Ant1	5190	40.560	5169.680	5210.240
		5230	40.400	5209.920	5250.320
11AC80SISO	Ant1	5210	80.800	5169.680	5250.480

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



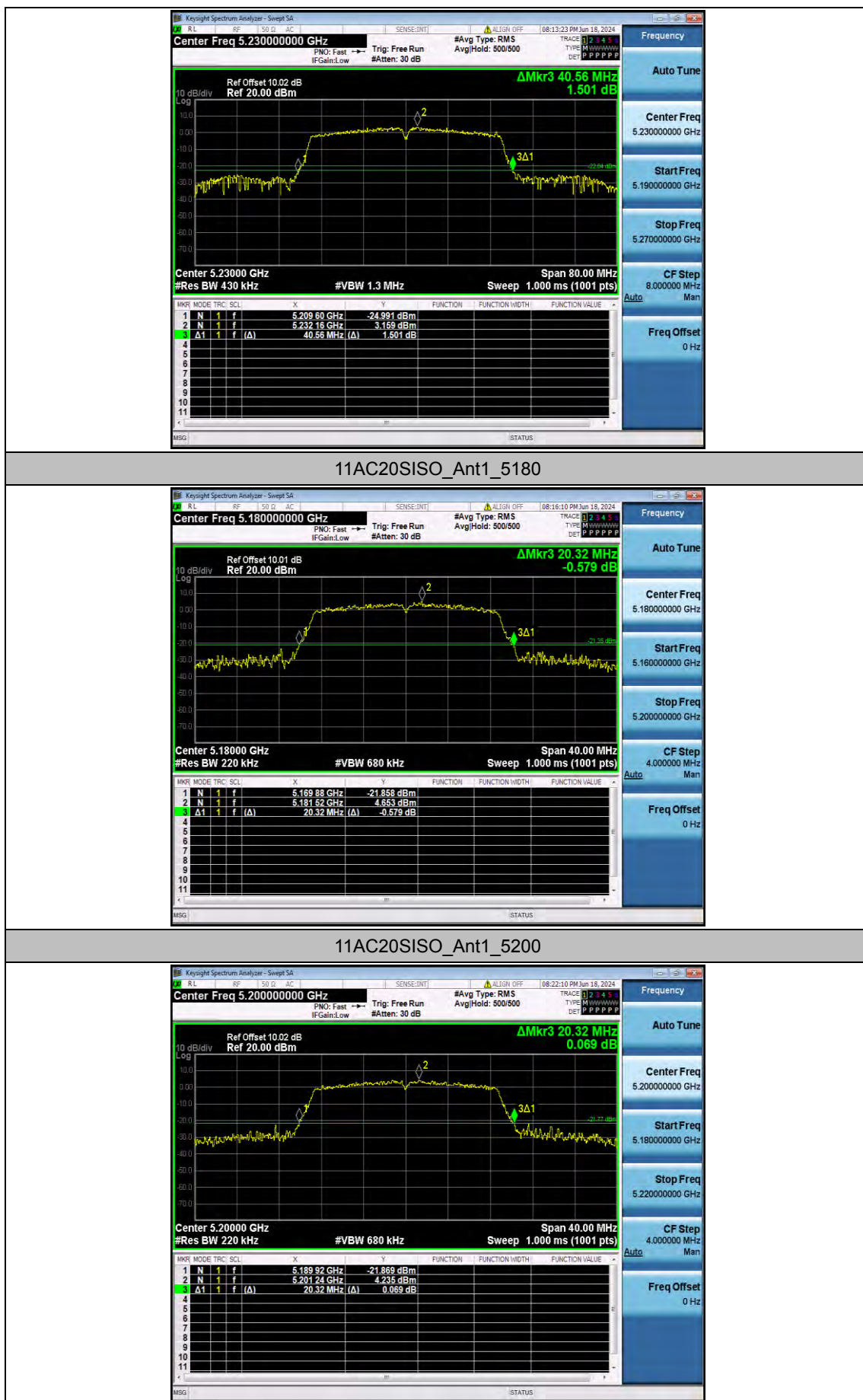
11N20SISO_Ant1_5240



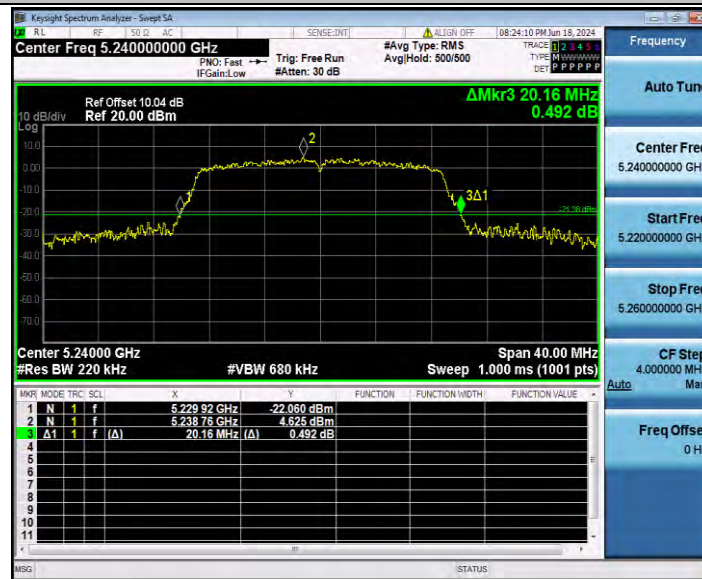
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



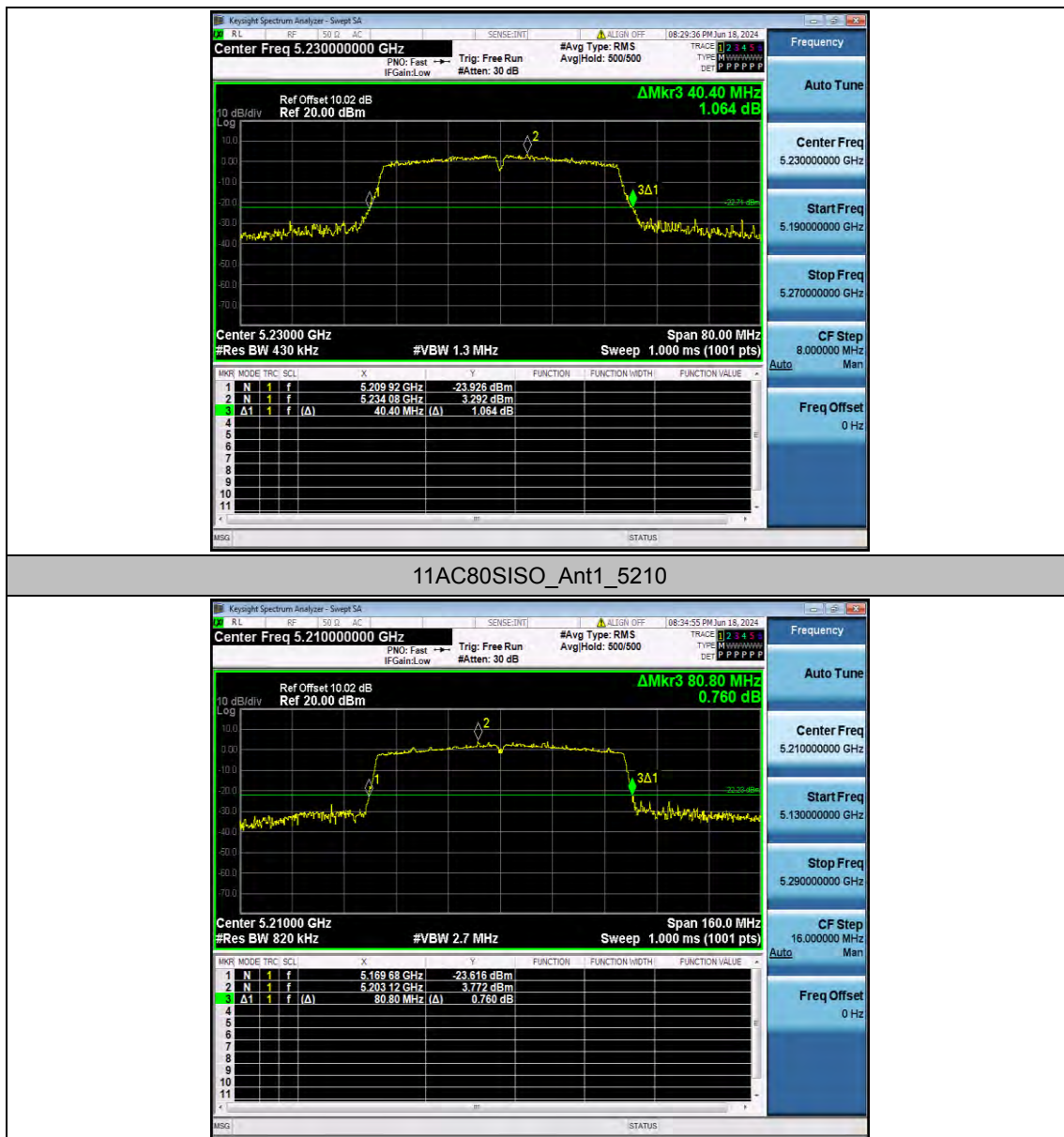
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

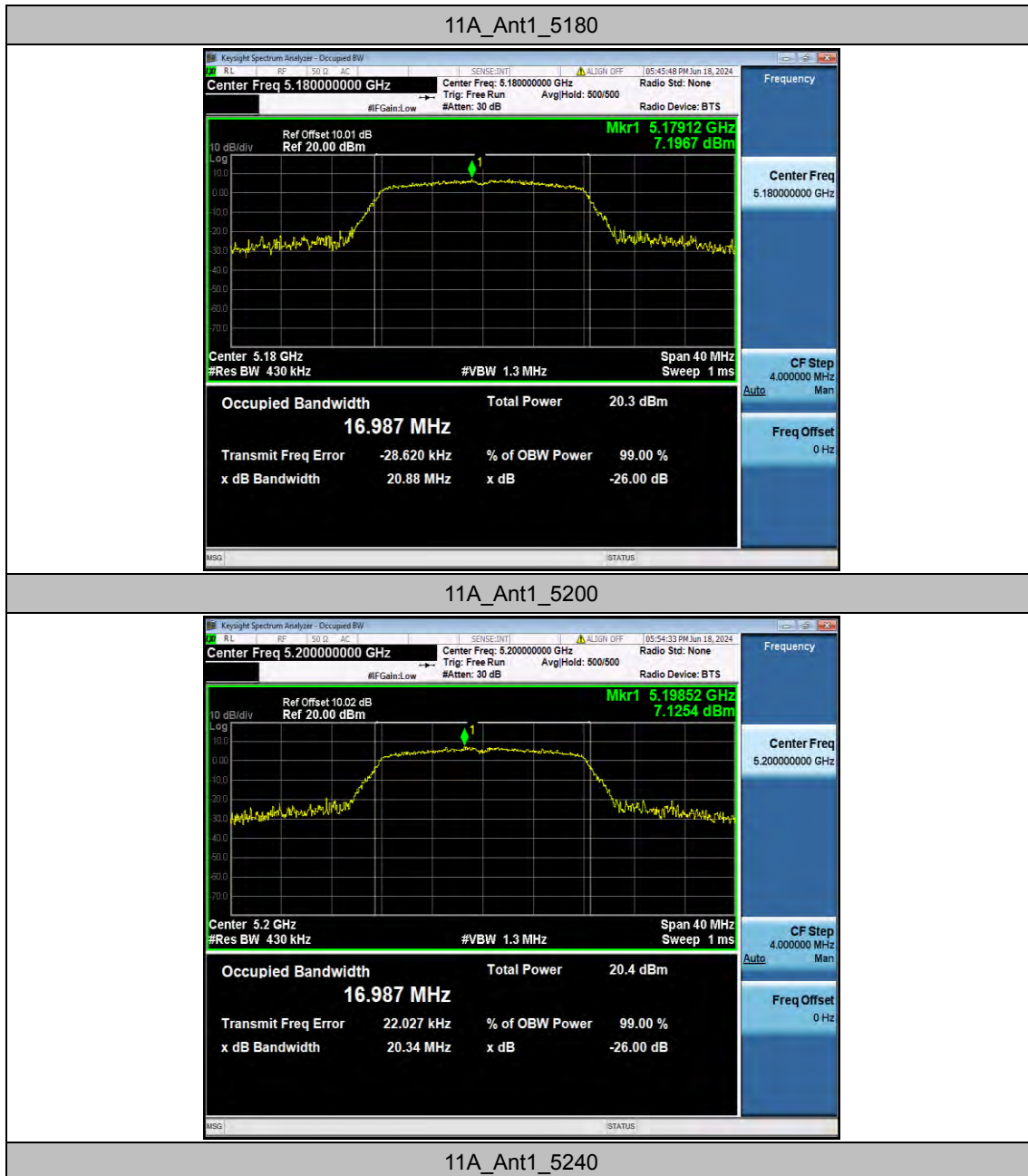


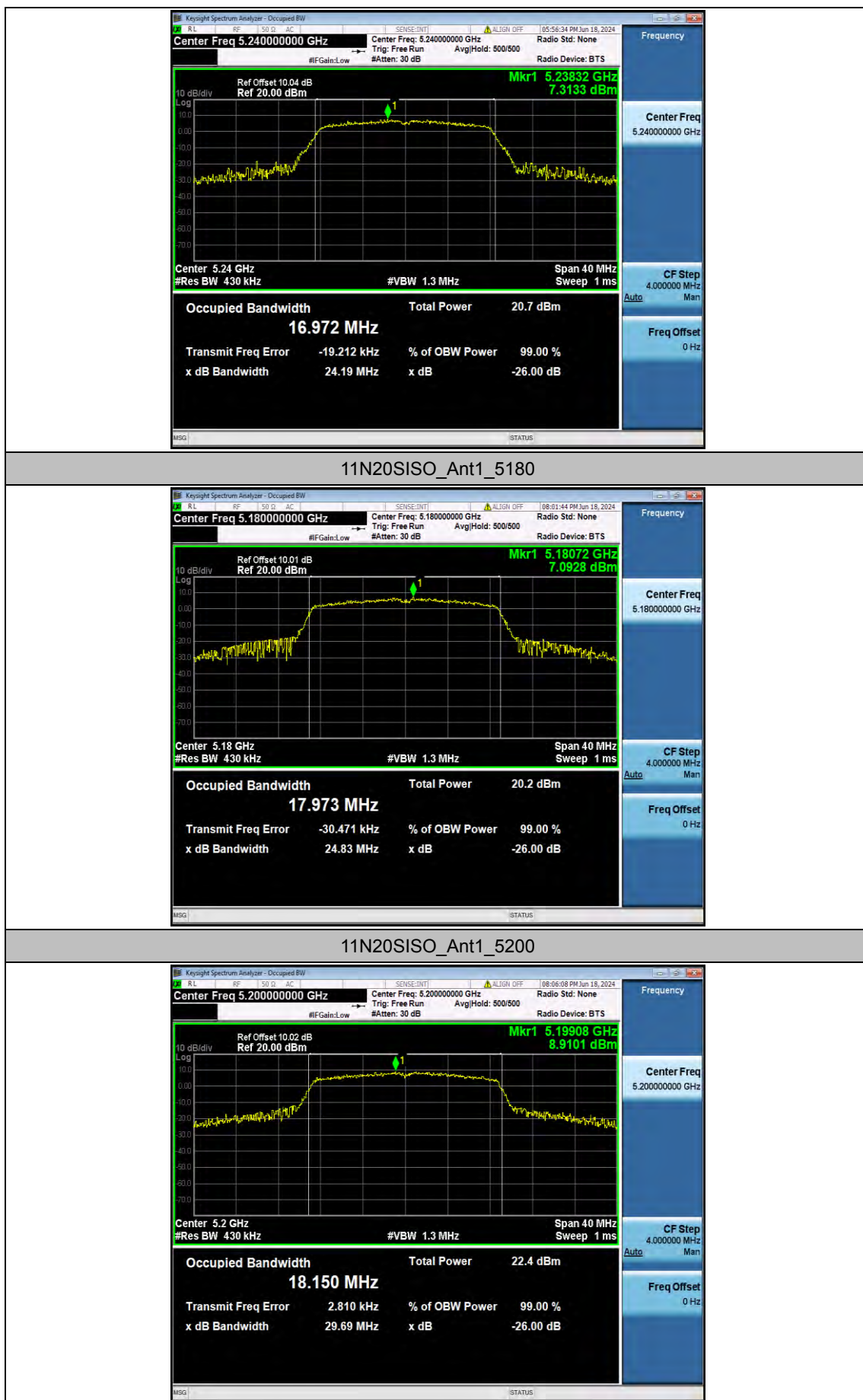
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	16.987	5171.4779	5188.4649
		5200	16.987	5191.5285	5208.5155
		5240	16.972	5231.4948	5248.4668
11N20SISO	Ant1	5180	17.973	5170.9830	5188.9560
		5200	18.150	5190.9278	5209.0778
		5240	18.141	5230.9013	5249.0423
11N40SISO	Ant1	5190	36.448	5171.8055	5208.2535
		5230	36.480	5211.7711	5248.2511
11AC20SISO	Ant1	5180	17.880	5171.0548	5188.9348
		5200	17.892	5191.0711	5208.9631
		5240	17.894	5231.0465	5248.9405
11AC40SISO	Ant1	5190	36.316	5171.9186	5208.2346
		5230	36.240	5211.8903	5248.1303
11AC80SISO	Ant1	5210	75.213	5172.5244	5247.7374

Test Graphs

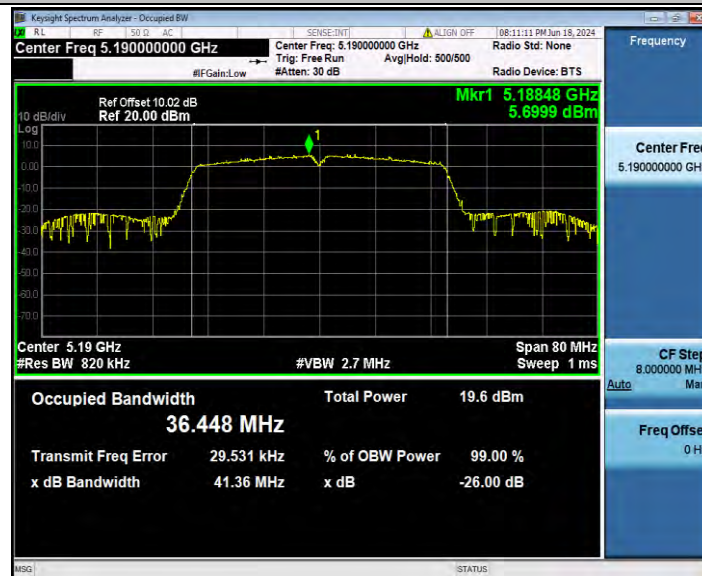




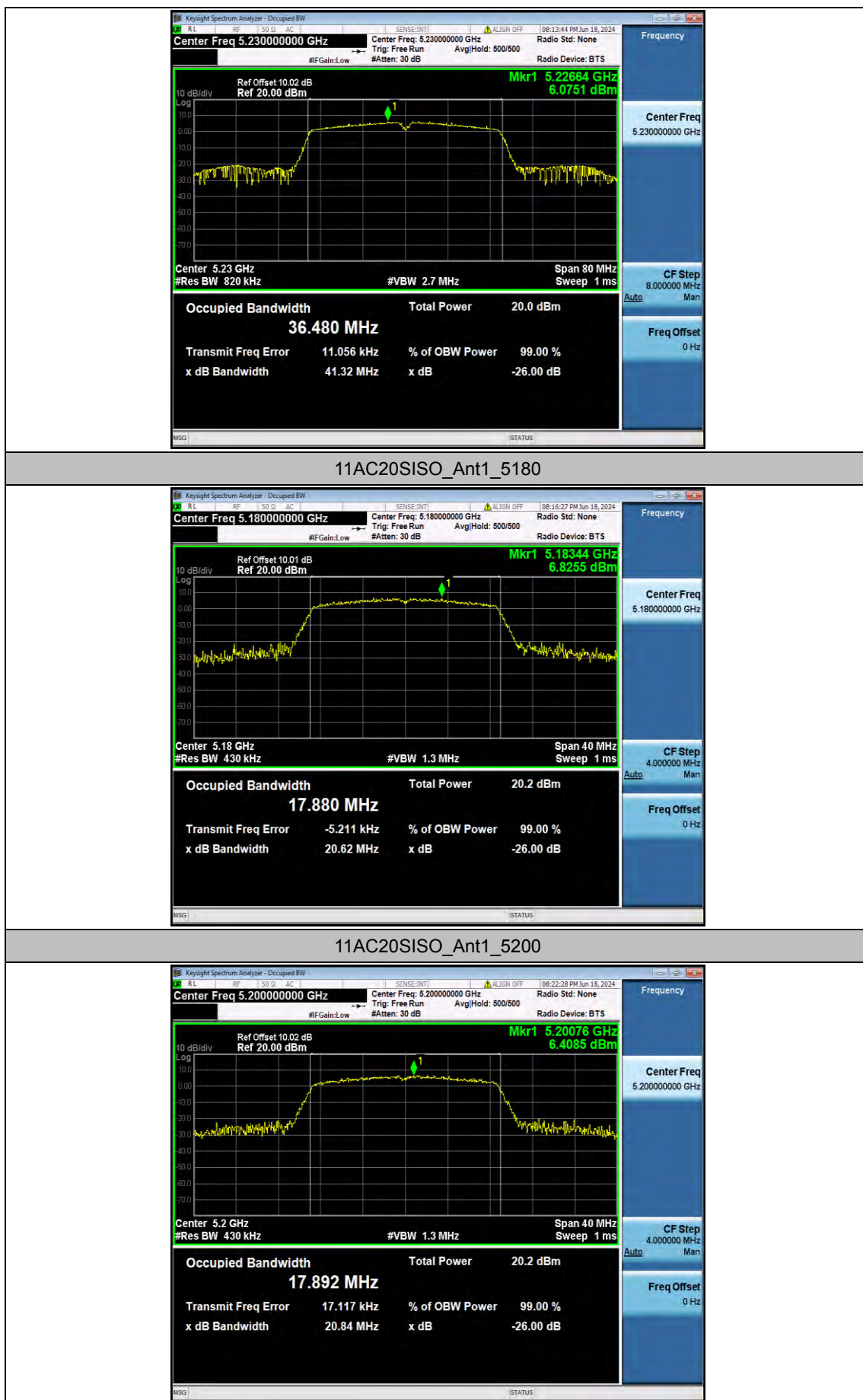
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



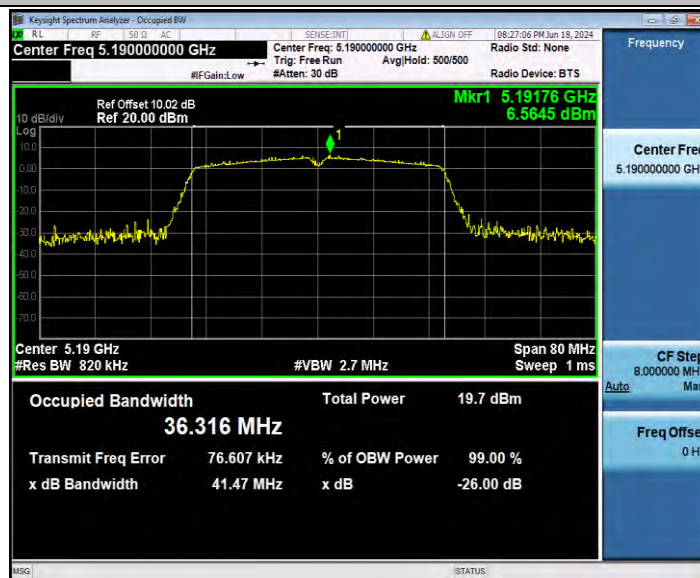
11N40SISO_Ant1_5230



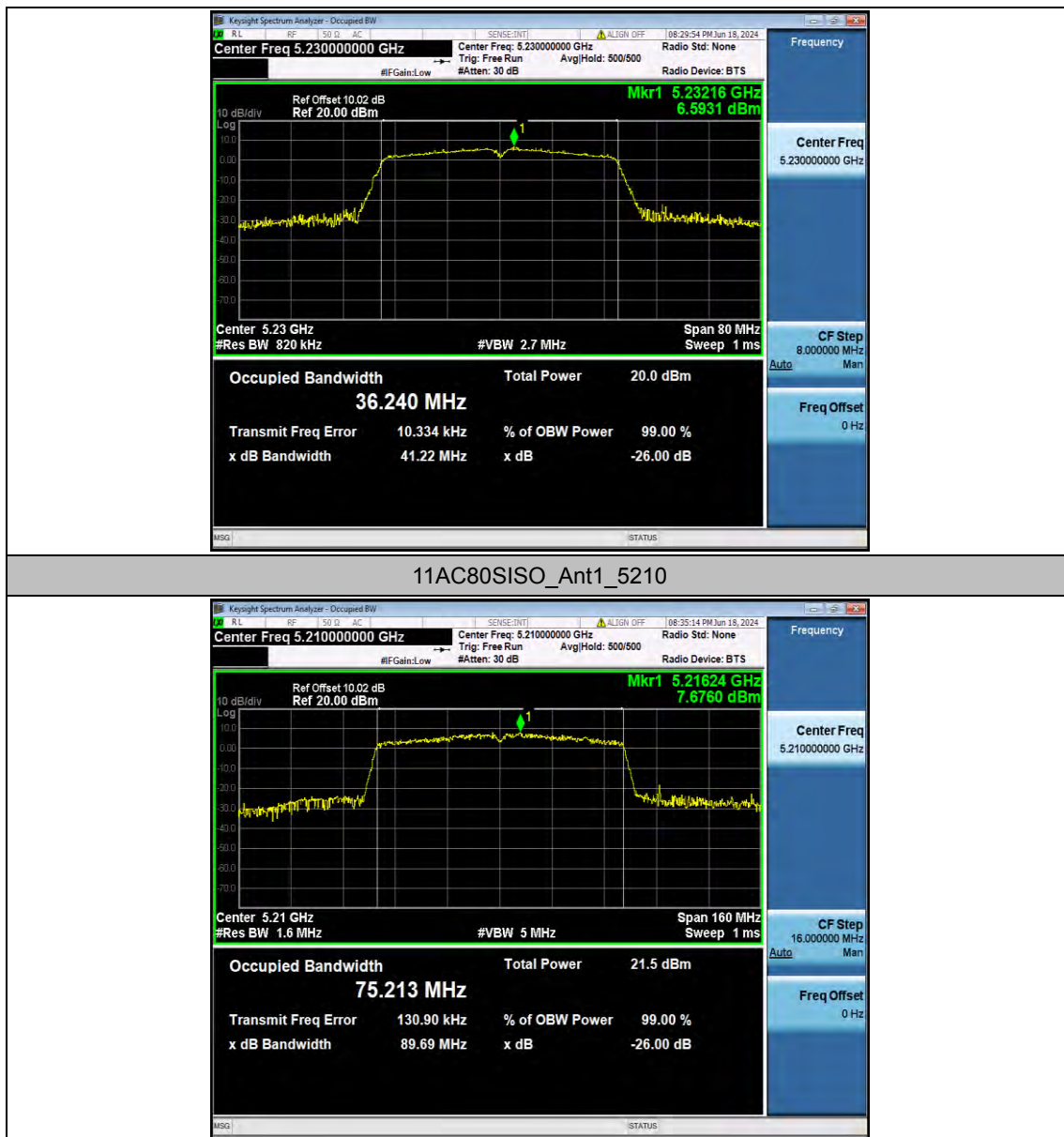
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



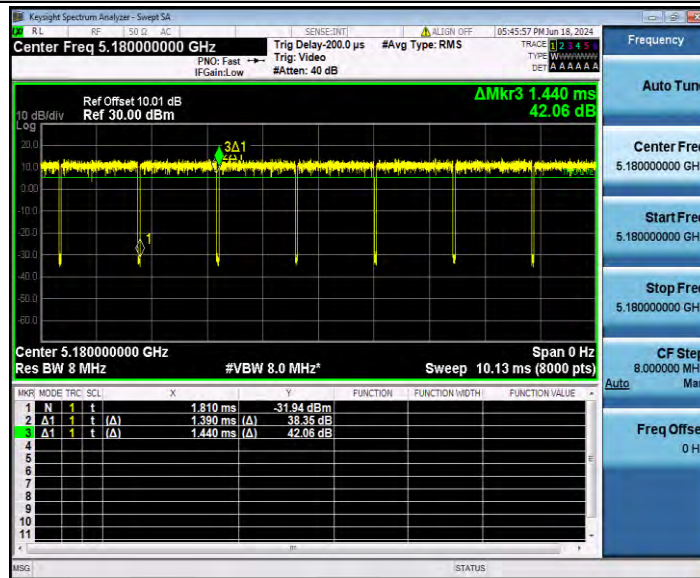
Appendix D.3: Duty Cycle

Test Result

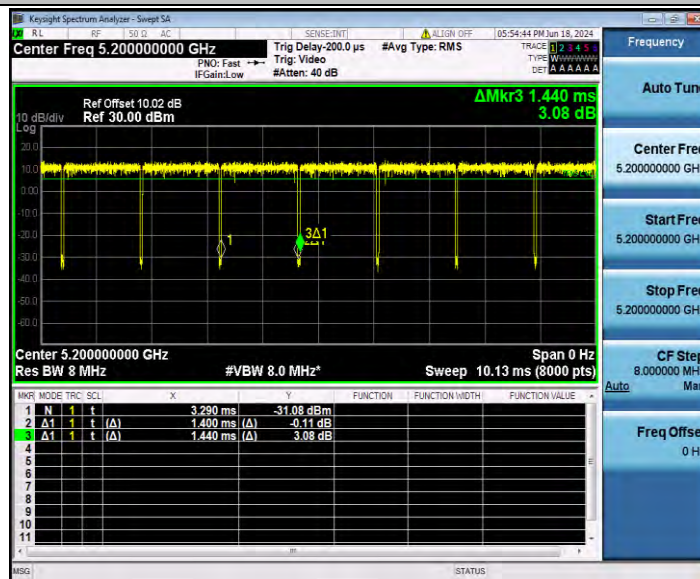
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	1.39	1.44	96.53	0.15	0.72
		5200	1.40	1.44	97.22	0.12	0.71
		5240	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5180	1.30	1.35	96.30	0.16	0.77
		5200	1.30	1.35	96.30	0.16	0.77
		5240	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5190	0.65	0.69	94.20	0.26	1.54
		5230	0.64	0.69	92.75	0.33	1.56
11AC20SISO	Ant1	5180	1.31	1.36	96.32	0.16	0.76
		5200	1.32	1.36	97.06	0.13	0.76
		5240	1.32	1.36	97.06	0.13	0.76
11AC40SISO	Ant1	5190	0.65	0.69	94.20	0.26	1.54
		5230	0.65	0.70	92.86	0.32	1.54
11AC80SISO	Ant1	5210	0.33	0.37	89.19	0.50	3.03

Test Graphs

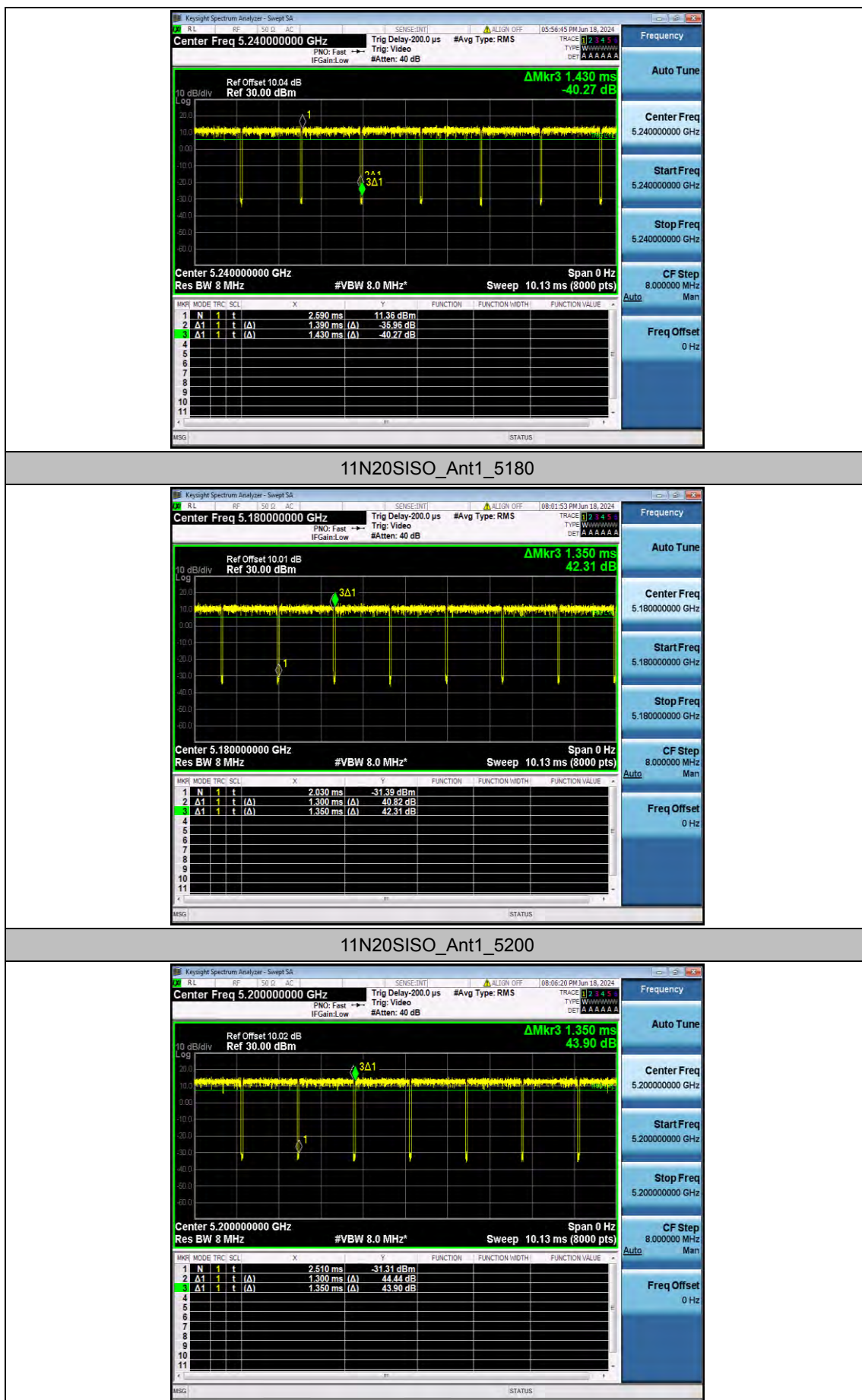
11A_Ant1_5180



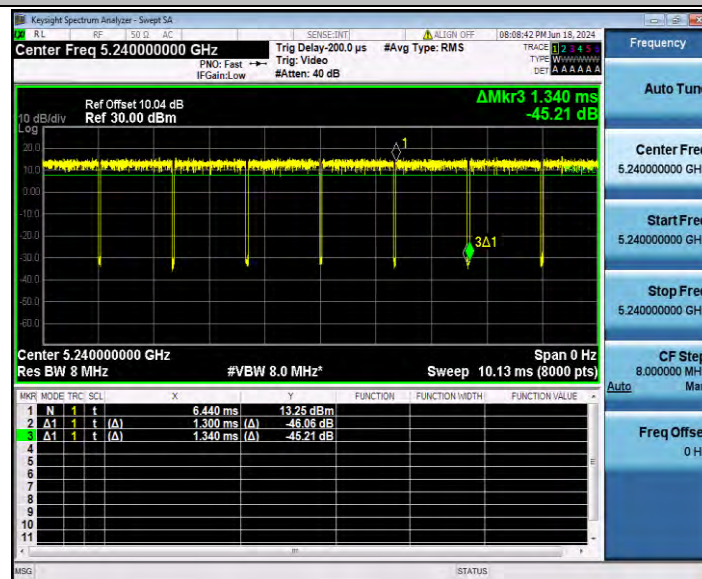
11A_Ant1_5200



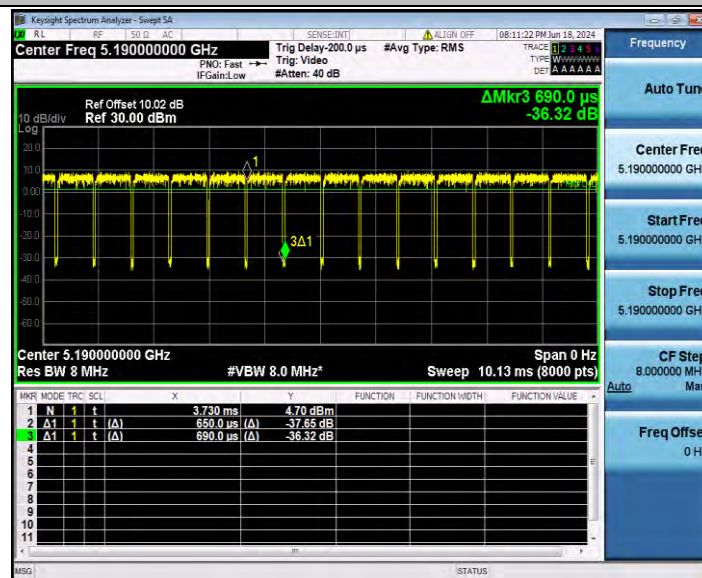
11A_Ant1_5240



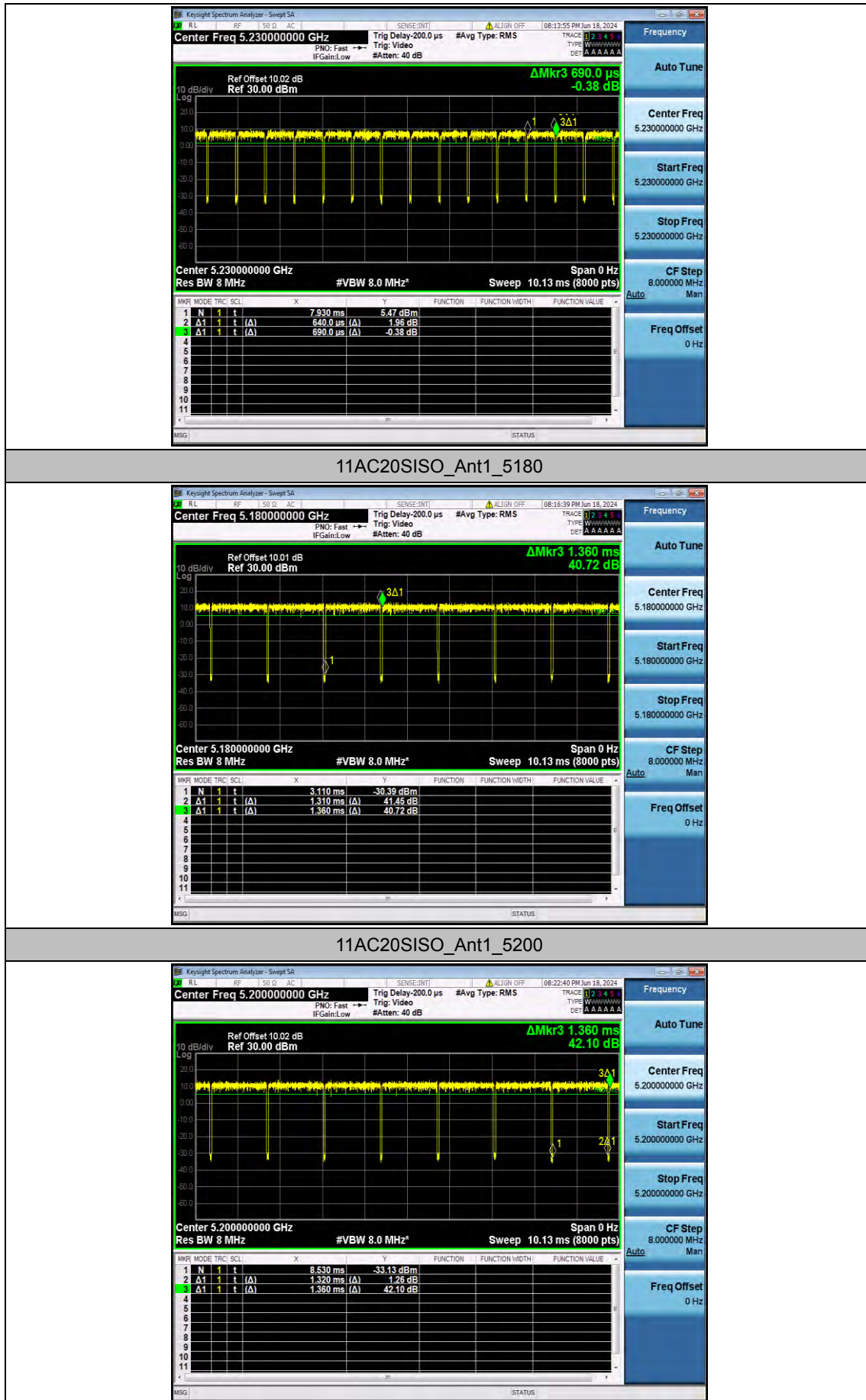
11N20SISO_Ant1_5240



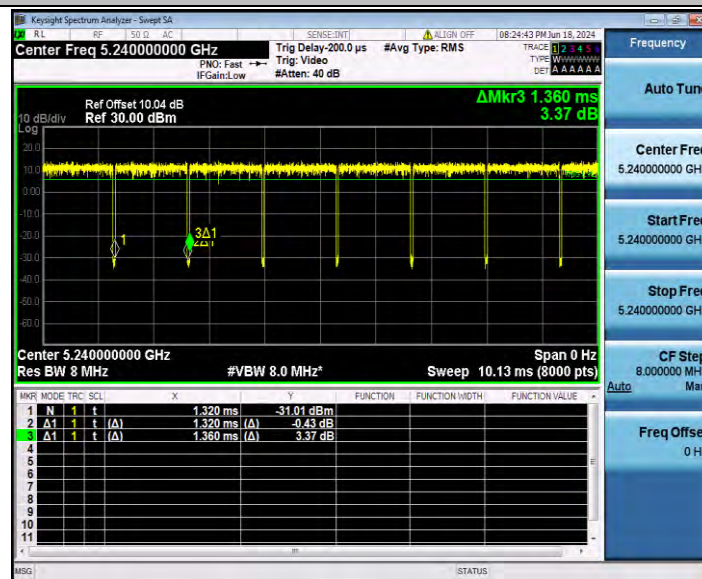
11N40SISO_Ant1_5190



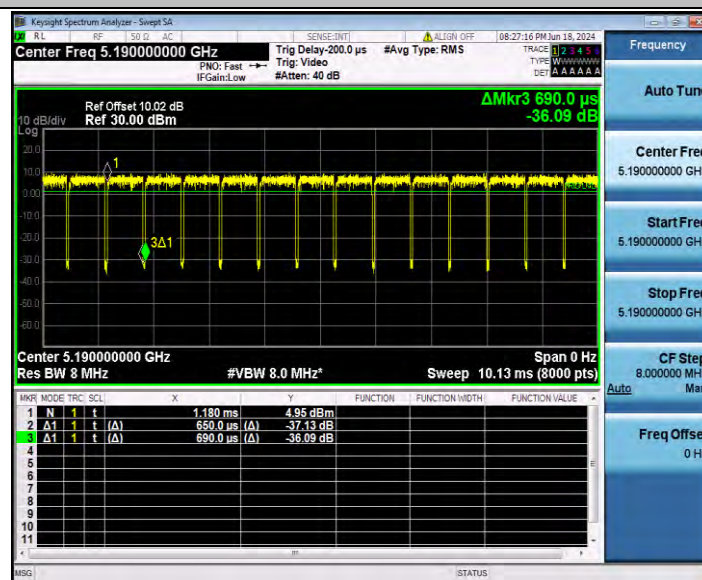
11N40SISO_Ant1_5230



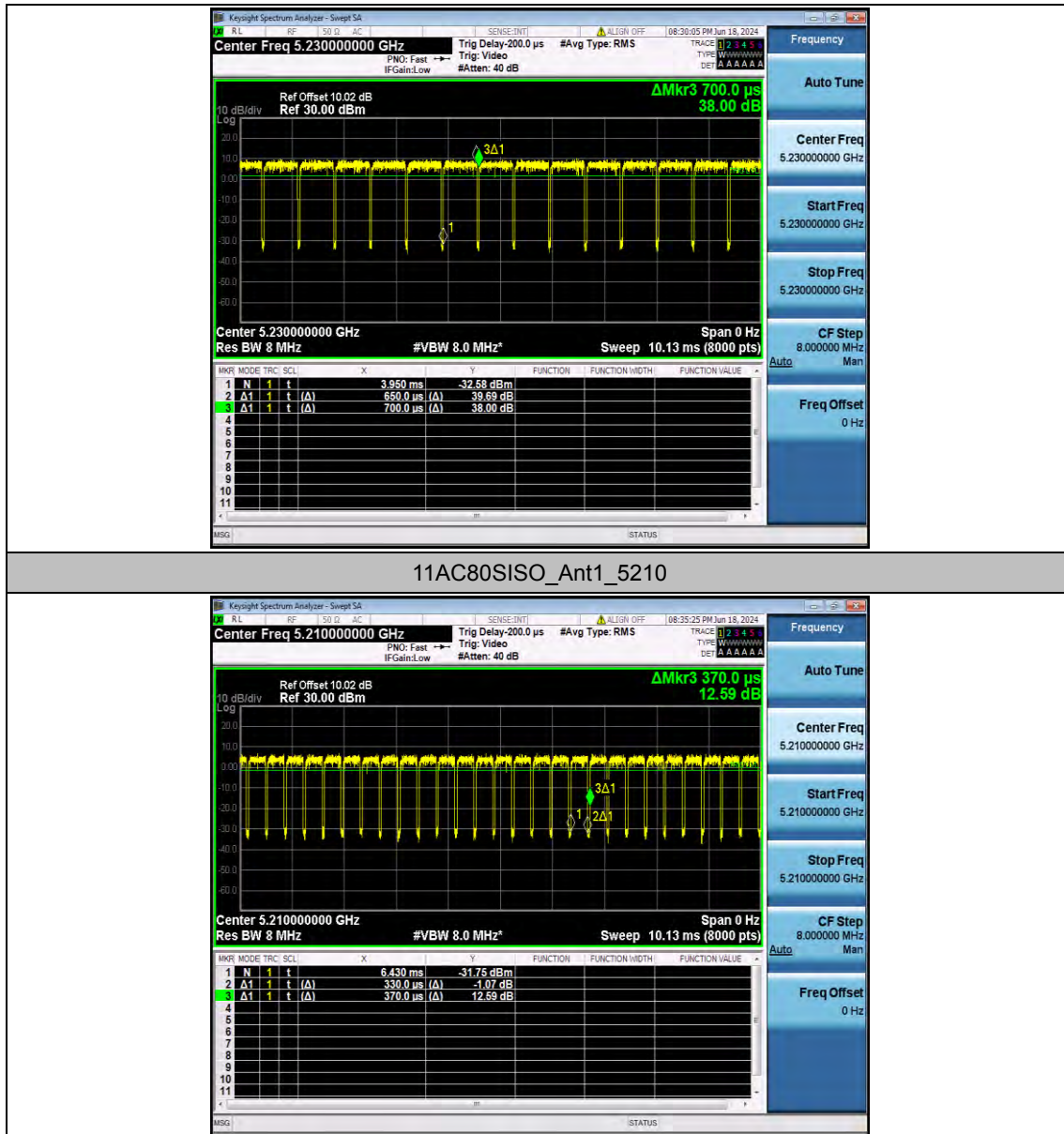
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_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	Ant1	5180	13.38	96.53	0.15	13.53	≤23.98	PASS
		5200	13.48	97.22	0.12	13.60	≤23.98	PASS
		5240	13.87	97.20	0.12	13.99	≤23.98	PASS
11N20SISO	Ant1	5180	13.29	96.30	0.16	13.45	≤23.98	PASS
		5200	15.45	96.30	0.16	15.61	≤23.98	PASS
		5240	15.55	97.01	0.13	15.68	≤23.98	PASS
11N40SISO	Ant1	5190	11.96	94.20	0.26	12.22	≤23.98	PASS
		5230	12.38	92.75	0.33	12.71	≤23.98	PASS
11AC20SISO	Ant1	5180	13.27	96.32	0.16	13.43	≤23.98	PASS
		5200	13.35	97.06	0.13	13.48	≤23.98	PASS
		5240	13.76	97.06	0.13	13.89	≤23.98	PASS
11AC40SISO	Ant1	5190	12.08	94.20	0.26	12.34	≤23.98	PASS
		5230	12.36	92.86	0.32	12.68	≤23.98	PASS
11AC80SISO	Ant1	5210	11.94	89.19	0.50	12.44	≤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	2.95	≤11.00	PASS
		5200	3.11	≤11.00	PASS
		5240	3.48	≤11.00	PASS
11N20SISO	Ant1	5180	2.62	≤11.00	PASS
		5200	4.91	≤11.00	PASS
		5240	5.00	≤11.00	PASS
11N40SISO	Ant1	5190	-1.32	≤11.00	PASS
		5230	-0.82	≤11.00	PASS
11AC20SISO	Ant1	5180	2.62	≤11.00	PASS
		5200	2.76	≤11.00	PASS
		5240	3.17	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.26	≤11.00	PASS
		5230	-0.79	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.01	≤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_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

