

Case No. : <u>GTS20250708005-2-04</u>	
Ambient Condition: <u>22</u> °C, <u>53</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	Ant1	5180	19.800	5170.080	5189.880	---	---
		5200	20.200	5189.840	5210.040	---	---
		5240	20.200	5229.880	5250.080	---	---
11N20SISO	Ant1	5180	20.320	5169.840	5190.160	---	---
		5200	20.440	5189.840	5210.280	---	---
		5240	20.640	5229.720	5250.360	---	---
11N40SISO	Ant1	5190	40.560	5169.760	5210.320	---	---
		5230	40.320	5209.760	5250.080	---	---
11AC20SISO	Ant1	5180	20.240	5169.880	5190.120	---	---
		5200	20.440	5189.800	5210.240	---	---
		5240	20.240	5229.920	5250.160	---	---
11AC40SISO	Ant1	5190	40.160	5170.000	5210.160	---	---
		5230	40.240	5209.920	5250.160	---	---
11AC80SISO	Ant1	5210	80.320	5169.840	5250.160	---	---

Test Graphs



11A_Ant1_5200

Frequency

Auto Tune

Center Freq
5.20000000 GHzStart Freq
5.180000000 GHzStop Freq
5.220000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

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

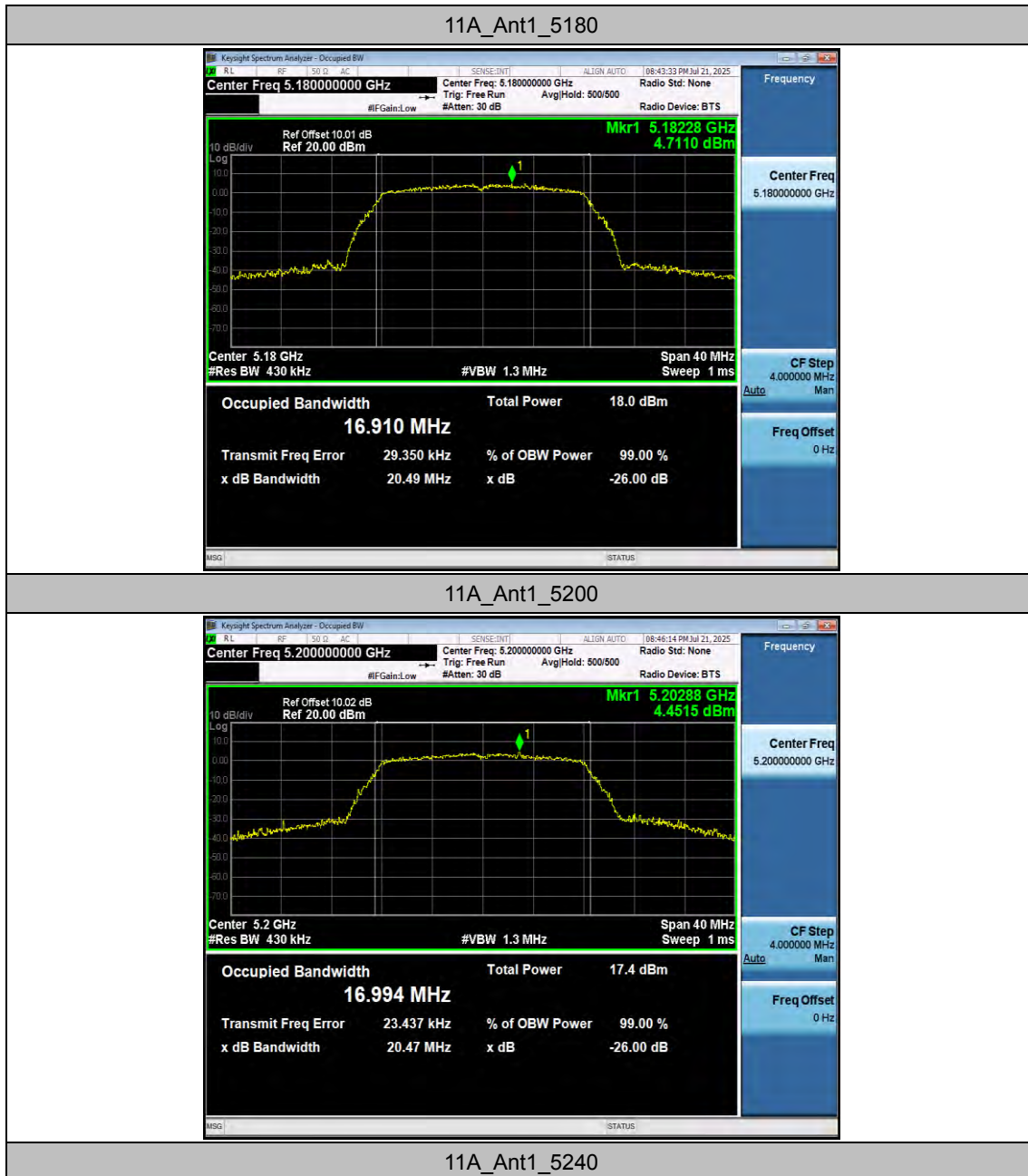


Appendix D.2: Occupied channel bandwidth

Test Result

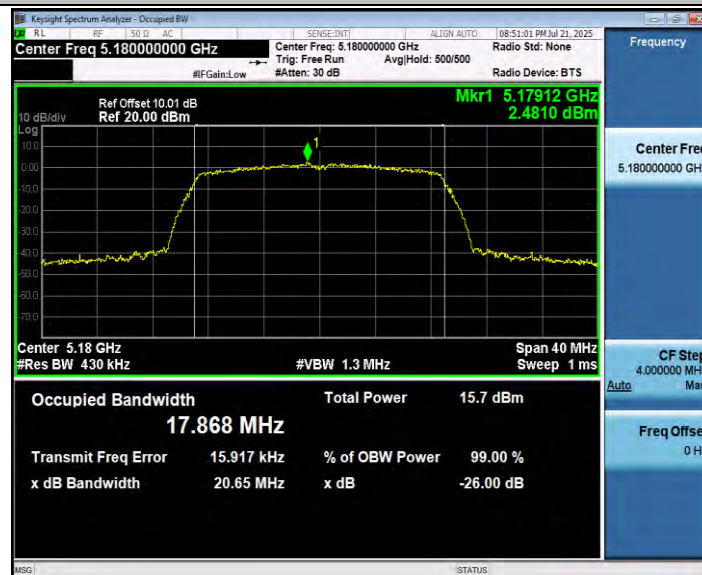
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.910	5171.5744	5188.4844	---	---
		5200	16.994	5191.5264	5208.5204	---	---
		5240	16.890	5231.5570	5248.4470	---	---
11N20SISO	Ant1	5180	17.868	5171.0819	5188.9499	---	---
		5200	17.910	5191.0781	5208.9881	---	---
		5240	17.842	5231.0590	5248.9010	---	---
11N40SISO	Ant1	5190	36.289	5171.8923	5208.1813	---	---
		5230	36.287	5211.8179	5248.1049	---	---
11AC20SISO	Ant1	5180	17.714	5171.1452	5188.8592	---	---
		5200	17.726	5191.1519	5208.8779	---	---
		5240	17.702	5231.1607	5248.8627	---	---
11AC40SISO	Ant1	5190	36.192	5171.9681	5208.1601	---	---
		5230	36.184	5211.9000	5248.0840	---	---
11AC80SISO	Ant1	5210	75.201	5172.4898	5247.6908	---	---

Test Graphs





11N20SISO_Ant1_5180



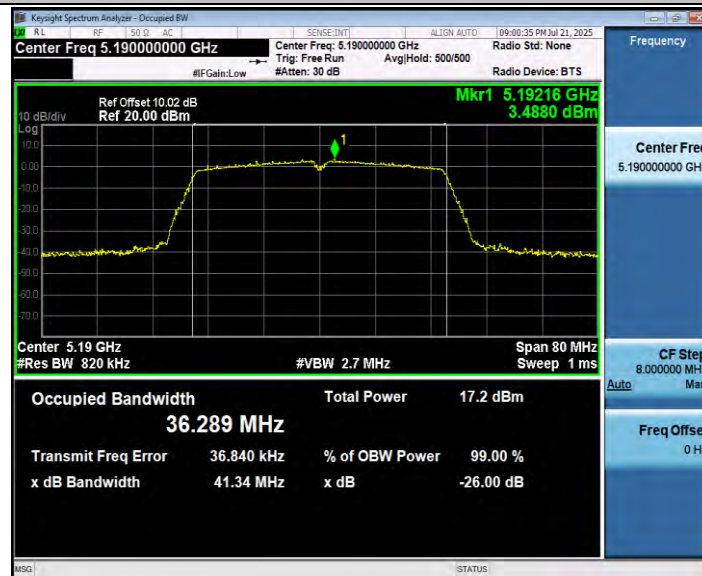
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



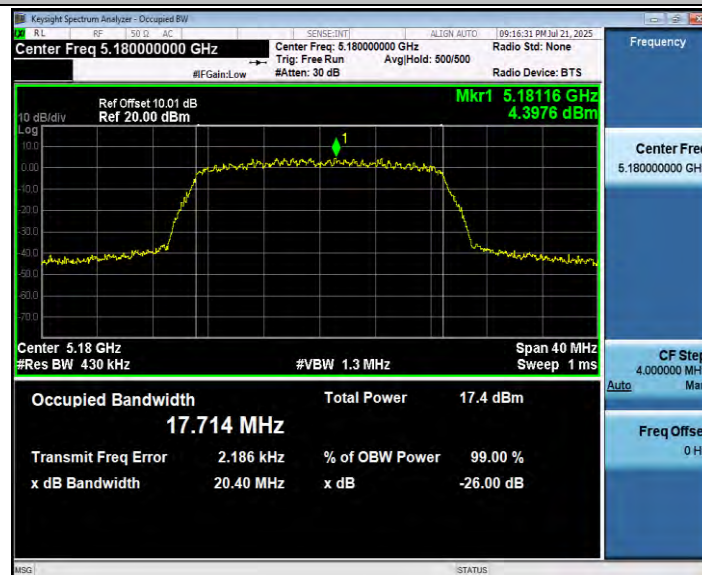
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



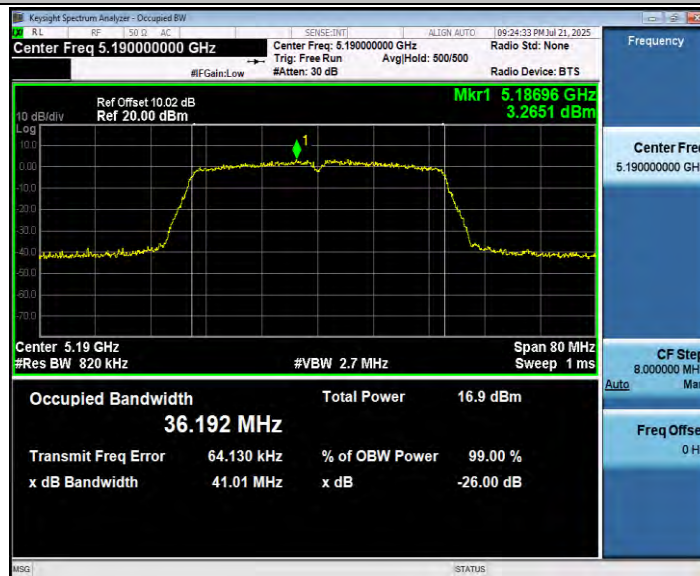
11AC20SISO_Ant1_5200



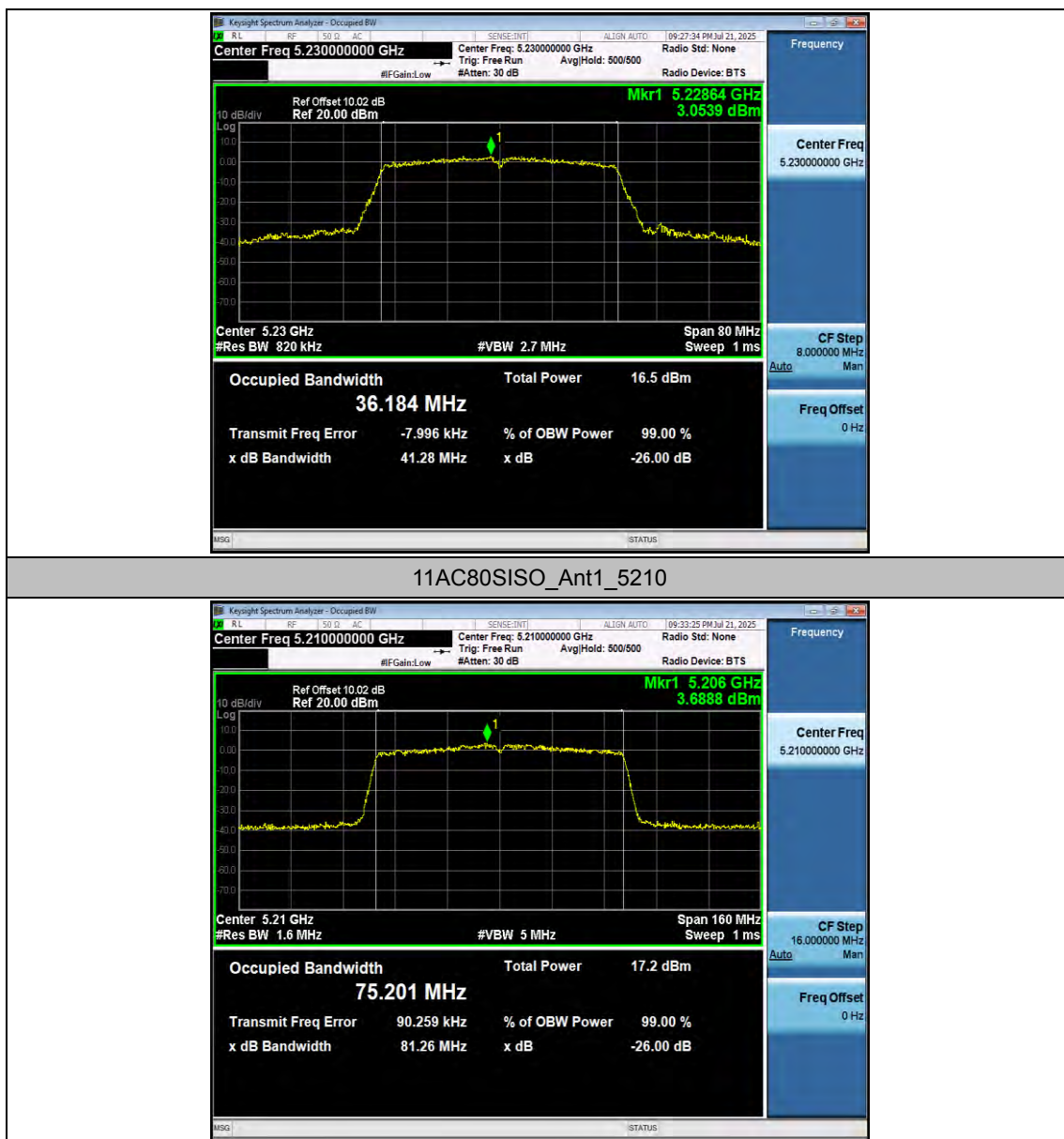
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

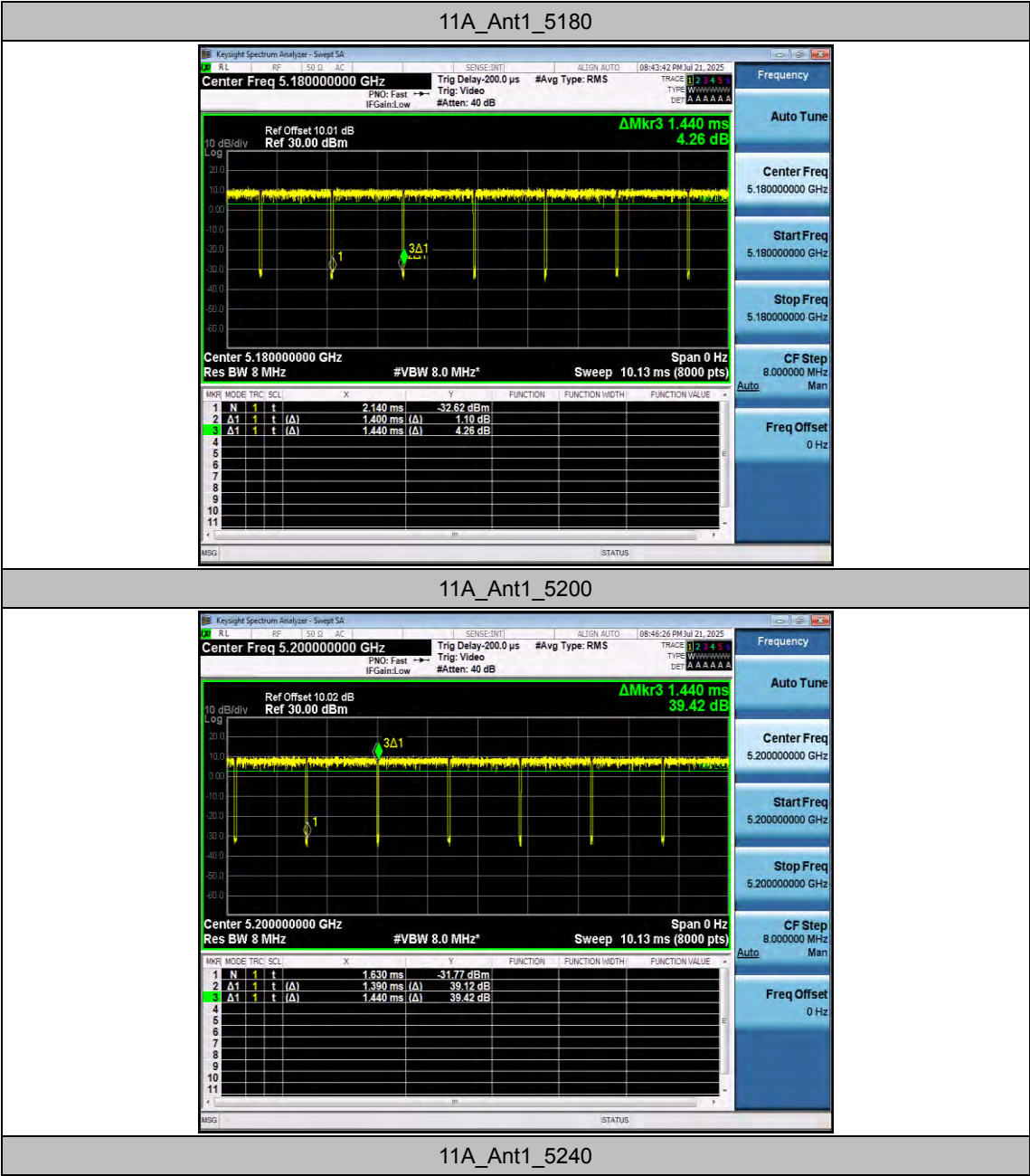


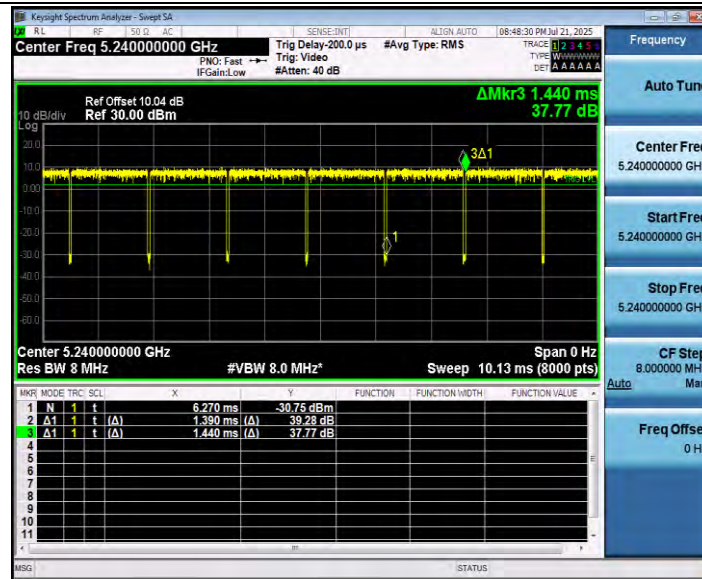
Appendix D.3: Duty Cycle

Test Result

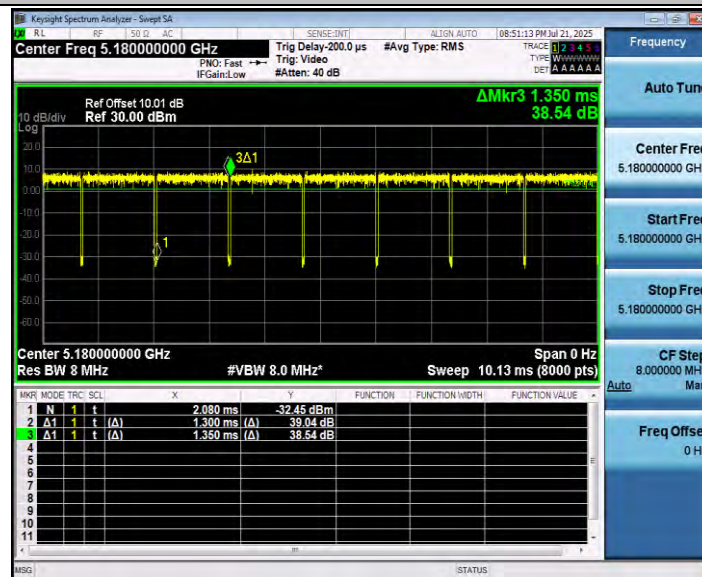
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	1.40	1.44	97.22	0.12	0.71
		5200	1.39	1.44	96.53	0.15	0.72
		5240	1.39	1.44	96.53	0.15	0.72
11N20SISO	Ant1	5180	1.30	1.35	96.30	0.16	0.77
		5200	1.30	1.35	96.30	0.16	0.77
		5240	1.30	1.35	96.30	0.16	0.77
11N40SISO	Ant1	5190	0.65	0.70	92.86	0.32	1.54
		5230	0.65	0.69	94.20	0.26	1.54
11AC20SISO	Ant1	5180	0.68	0.72	94.44	0.25	1.47
		5200	0.68	0.72	94.44	0.25	1.47
		5240	0.68	0.73	93.15	0.31	1.47
11AC40SISO	Ant1	5190	0.35	0.40	87.50	0.58	2.86
		5230	0.35	0.39	89.74	0.47	2.86
11AC80SISO	Ant1	5210	0.19	0.23	82.61	0.83	5.26

Test Graphs

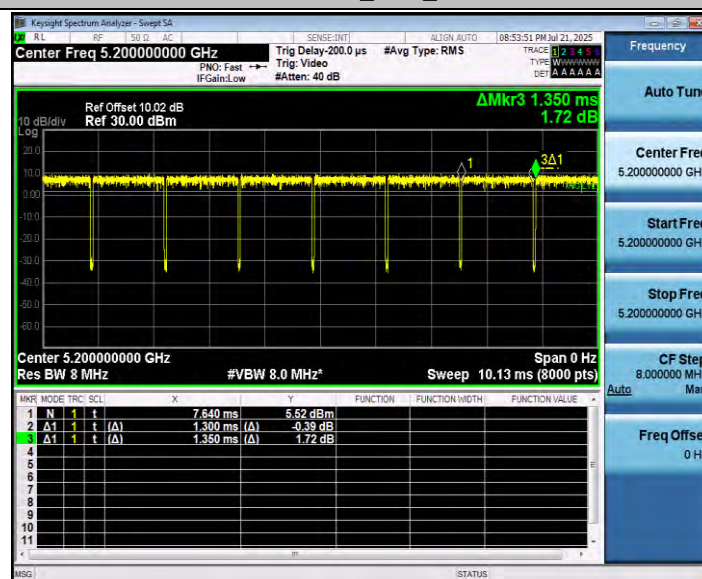




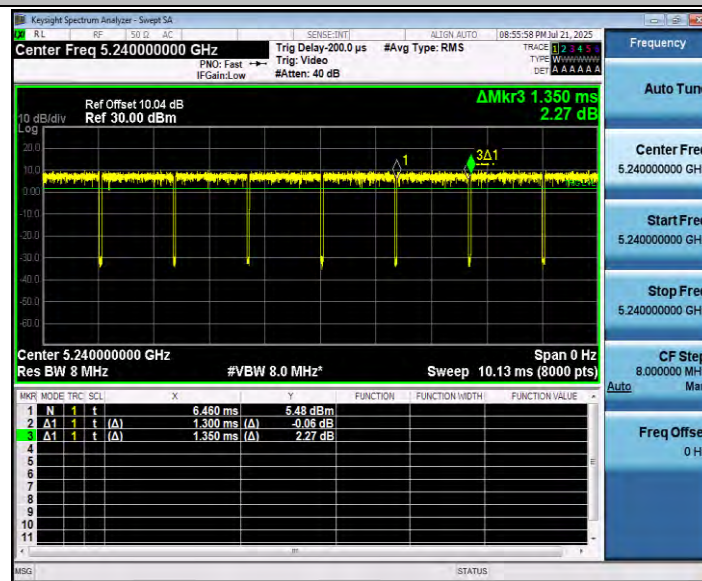
11N20SISO_Ant1_5180



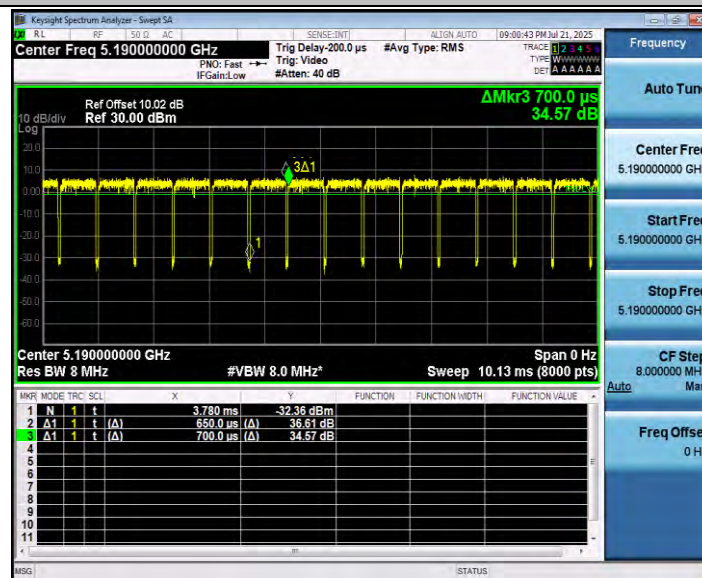
11N20SISO_Ant1_5200



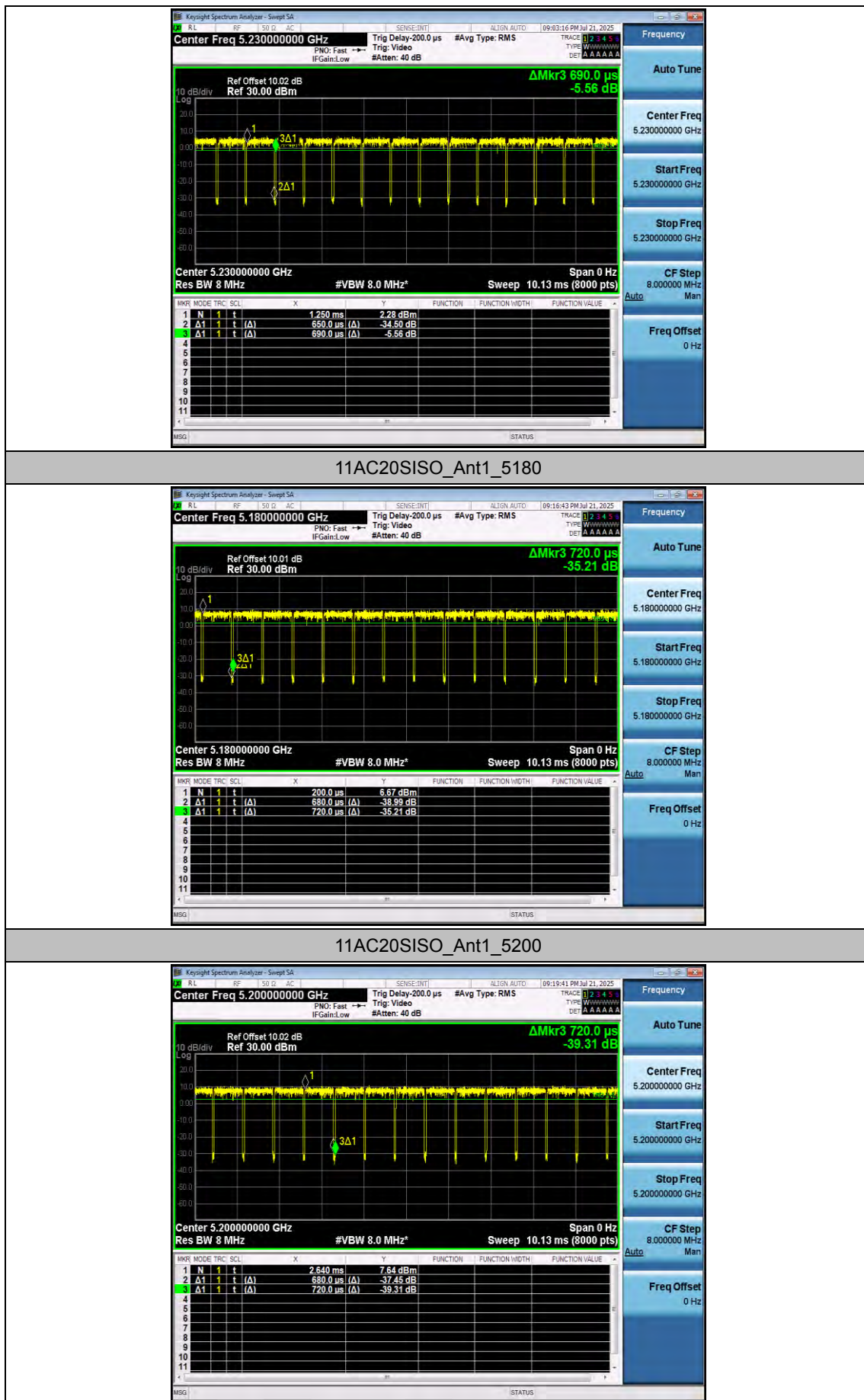
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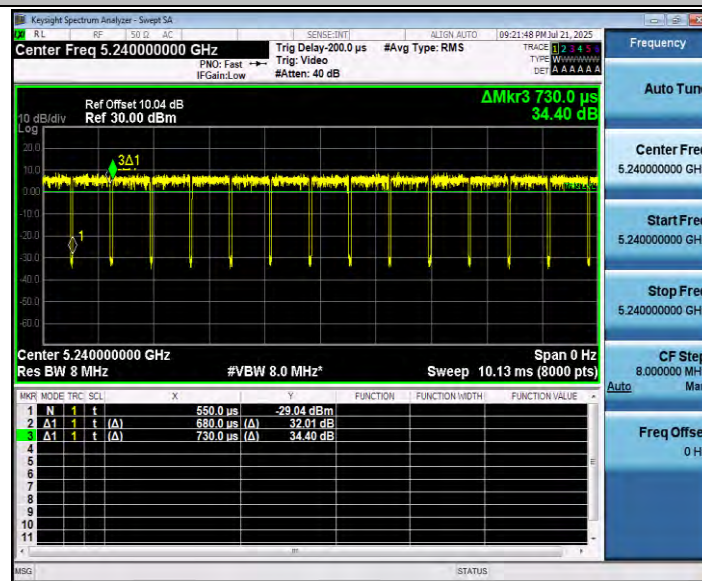
11N40SISO_Ant1_5190



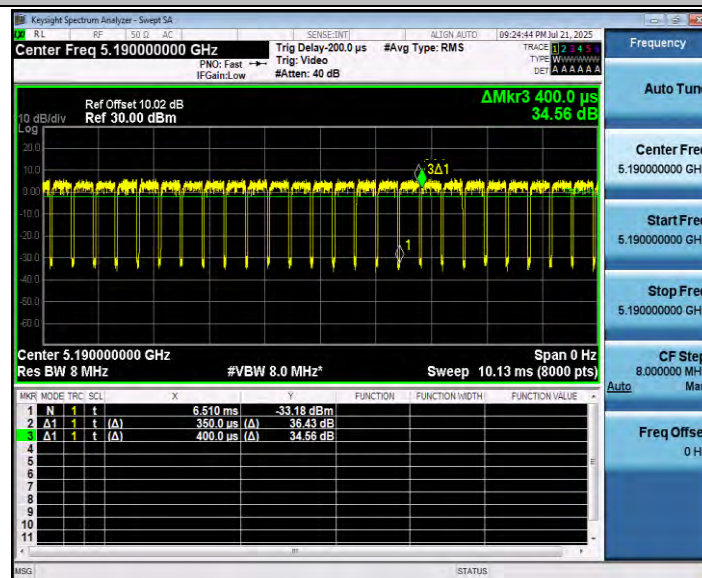
11N40SISO_Ant1_5230



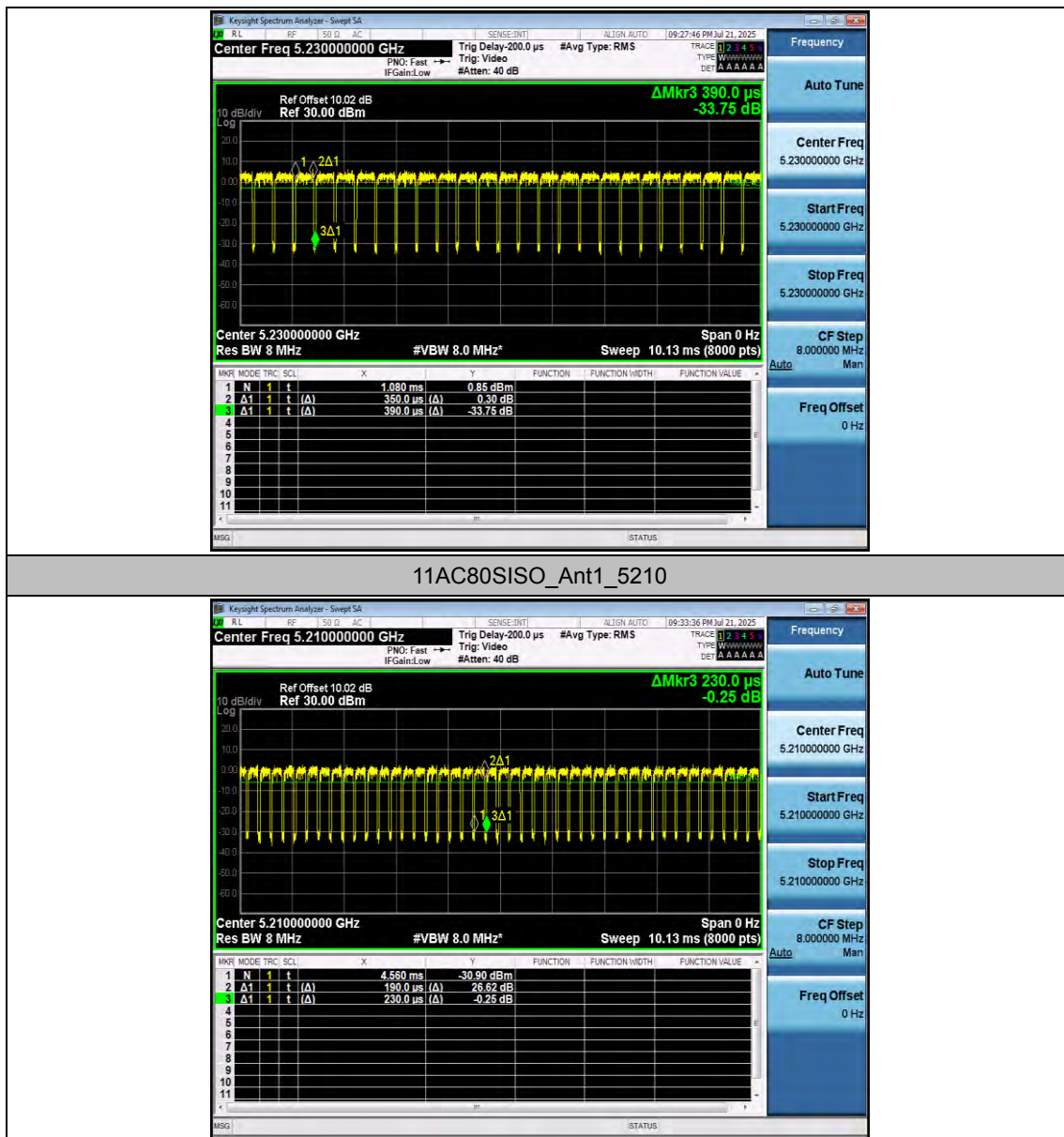
11AC20SISO_Ant1_5240



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	11.08	97.22	0.12	11.20	≤23.98	PASS
		5200	10.40	96.53	0.15	10.55	≤23.98	PASS
		5240	9.85	96.53	0.15	10.00	≤23.98	PASS
11N20SISO	Ant1	5180	8.81	96.30	0.16	8.97	≤23.98	PASS
		5200	9.87	96.30	0.16	10.03	≤23.98	PASS
		5240	9.74	96.30	0.16	9.90	≤23.98	PASS
11N40SISO	Ant1	5190	9.54	92.86	0.32	9.86	≤23.98	PASS
		5230	9.50	94.20	0.26	9.76	≤23.98	PASS
11AC20SISO	Ant1	5180	9.68	94.44	0.25	9.93	≤23.98	PASS
		5200	8.17	94.44	0.25	8.42	≤23.98	PASS
		5240	8.15	93.15	0.31	8.46	≤23.98	PASS
11AC40SISO	Ant1	5190	8.41	87.50	0.58	8.99	≤23.98	PASS
		5230	7.88	89.74	0.47	8.35	≤23.98	PASS
11AC80SISO	Ant1	5210	7.37	82.61	0.83	8.20	≤23.98	PASS

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.59	≤11.00	PASS
		5200	-0.08	≤11.00	PASS
		5240	-0.47	≤11.00	PASS
11N20SISO	Ant1	5180	-1.85	≤11.00	PASS
		5200	-0.71	≤11.00	PASS
		5240	-0.74	≤11.00	PASS
11N40SISO	Ant1	5190	-3.84	≤11.00	PASS
		5230	-3.90	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.88	≤11.00	PASS
		5200	-2.28	≤11.00	PASS
		5240	-3.02	≤11.00	PASS
11AC40SISO	Ant1	5190	-4.60	≤11.00	PASS
		5230	-5.11	≤11.00	PASS
11AC80SISO	Ant1	5210	-8.11	≤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



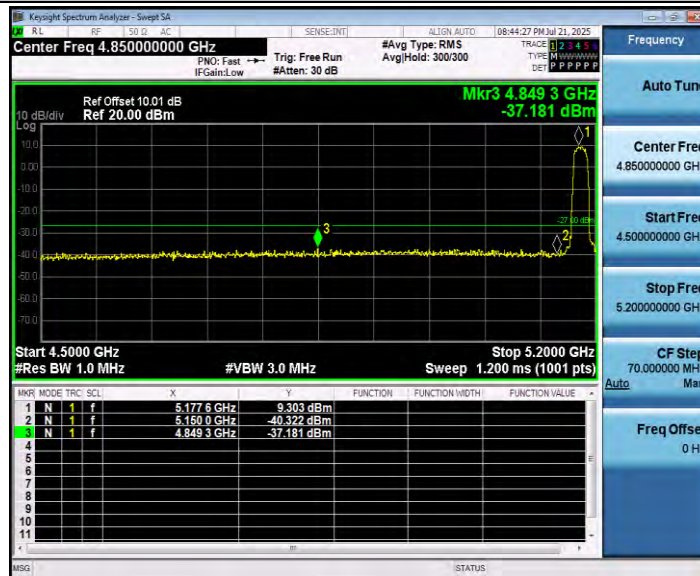
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.18	≤ -27	PASS
		High	5240	-37.4	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-36.85	≤ -27	PASS
		High	5240	-36.63	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-36.89	≤ -27	PASS
		High	5230	-37.35	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-37.14	≤ -27	PASS
		High	5240	-37.35	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-36.81	≤ -27	PASS
		High	5230	-37.11	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-36.78	≤ -27	PASS
		High	5210	-37.32	≤ -27	PASS

Test Graphs B1

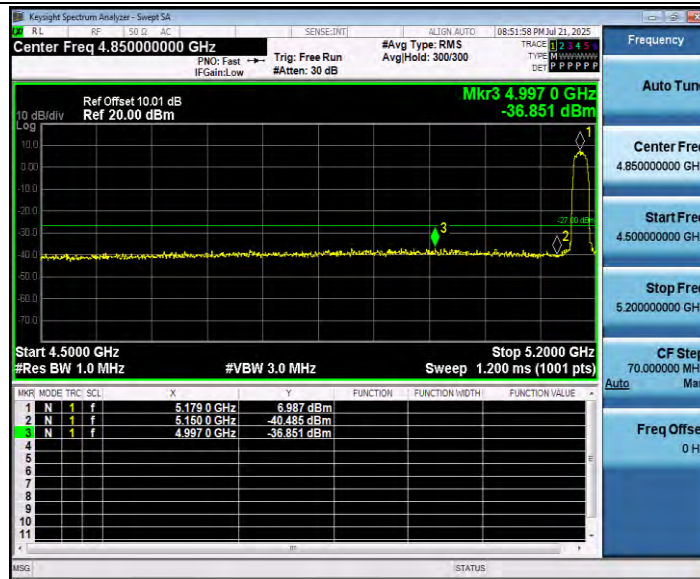
11A_Ant1_Low_5180



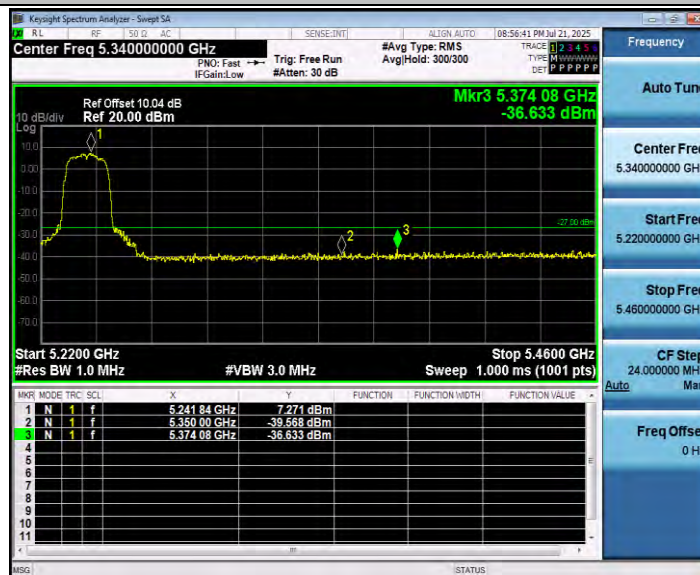
11A_Ant1_High_5240



11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



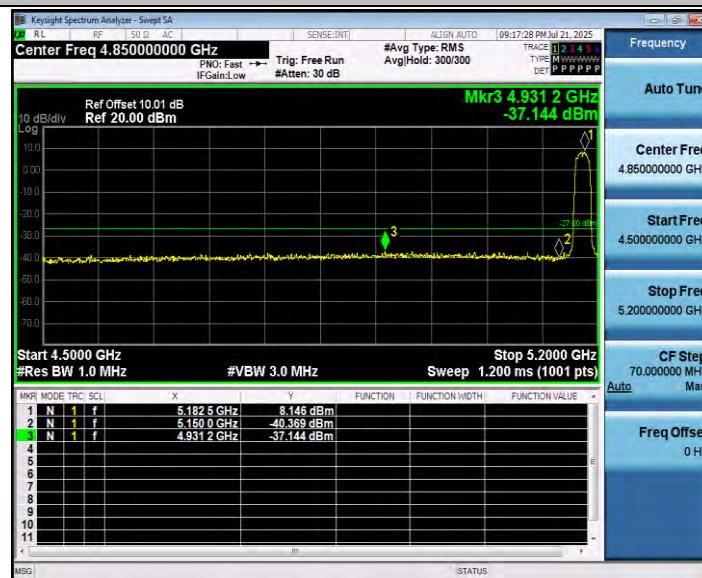
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



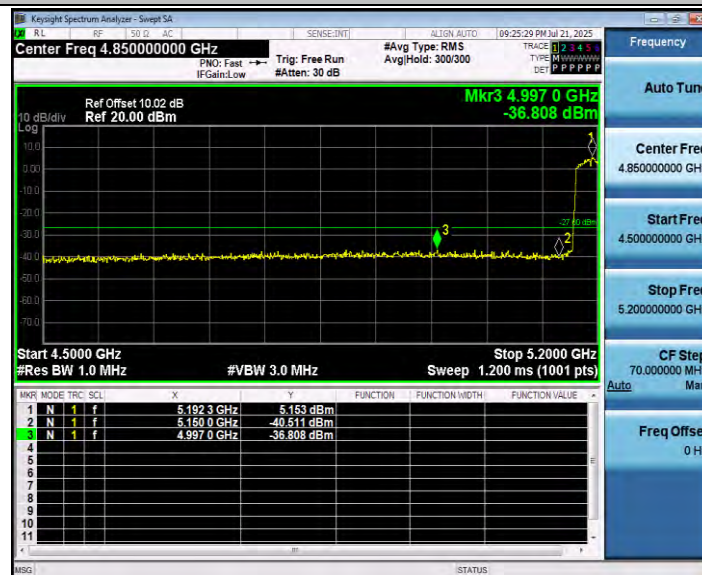
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240

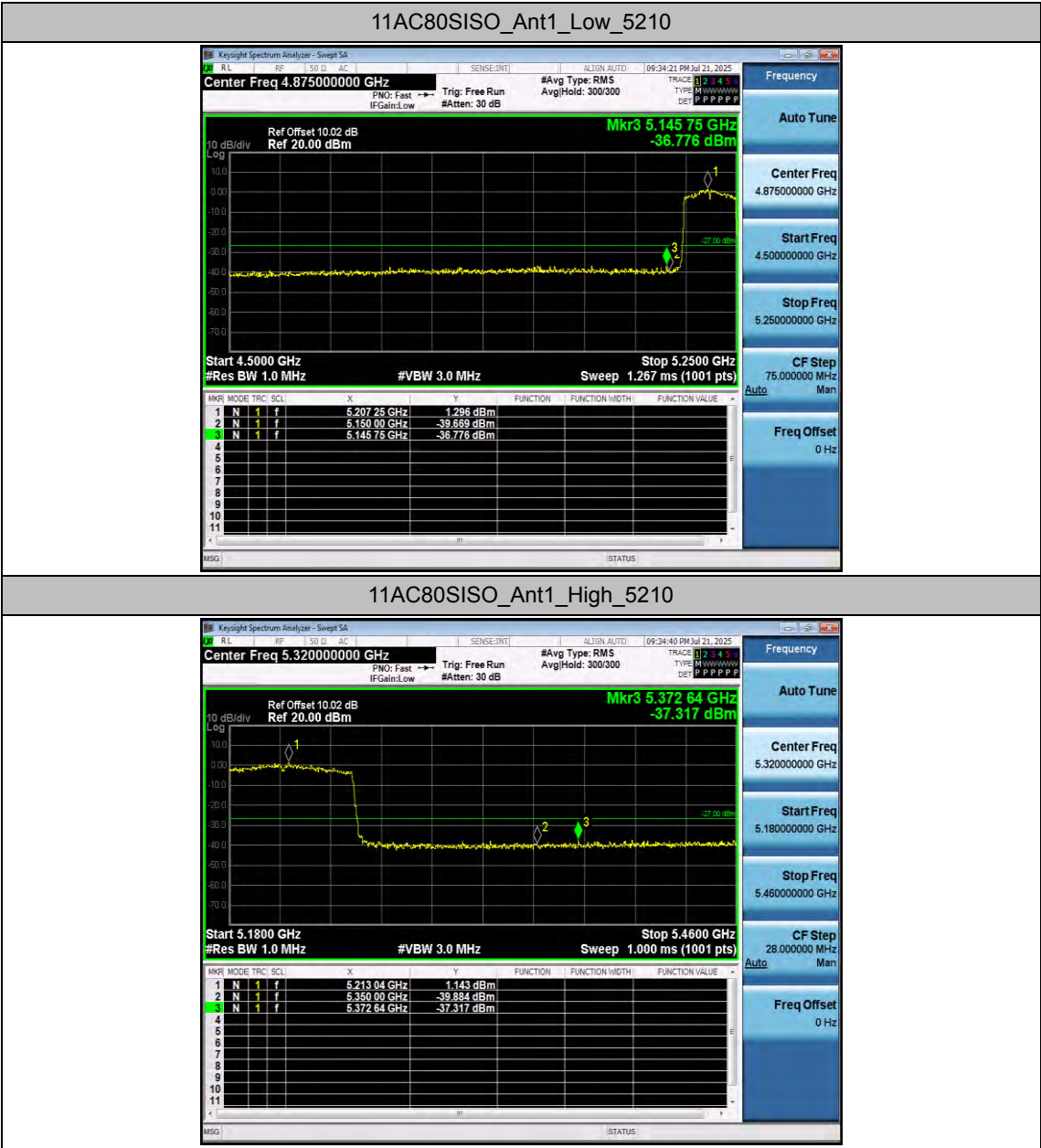


11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230





Appendix D.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5021.11	-45.93	≤-27	PASS
			5360~27000	25584.02	-36.15	≤-27	PASS
		5200	30~5140	2438.68	-39.14	≤-27	PASS
			5360~27000	26051.45	-36.7	≤-27	PASS
		5240	30~5140	2435.28	-37.38	≤-27	PASS
			5360~27000	24280.57	-36.46	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5084.3	-45.16	≤-27	PASS
			5360~27000	26832.65	-37.26	≤-27	PASS
		5200	30~5140	2605.44	-45.86	≤-27	PASS
			5360~27000	24286.34	-36.92	≤-27	PASS
		5240	30~5140	4876.15	-46.65	≤-27	PASS
			5360~27000	24224.31	-36.64	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	3298.19	-46.17	≤-27	PASS
			5360~27000	24239.46	-36.88	≤-27	PASS
		5230	30~5140	5038.65	-46.2	≤-27	PASS
			5360~27000	24367.13	-36.82	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	4935.43	-46.08	≤-27	PASS
			5360~27000	24273.36	-36.59	≤-27	PASS
		5200	30~5140	830.91	-30.34	≤-27	PASS
			5360~27000	23582.32	-37.36	≤-27	PASS
		5240	30~5140	5026.9	-46.32	≤-27	PASS
			5360~27000	24279.13	-36.58	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5082.26	-45.5	≤-27	PASS
			5360~27000	24695.34	-37.3	≤-27	PASS
		5230	30~5140	2602.89	-37.17	≤-27	PASS
			5360~27000	26961.77	-36.9	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	833.12	-33.45	≤-27	PASS
			5360~27000	23494.32	-37.26	≤-27	PASS

Test Graphs

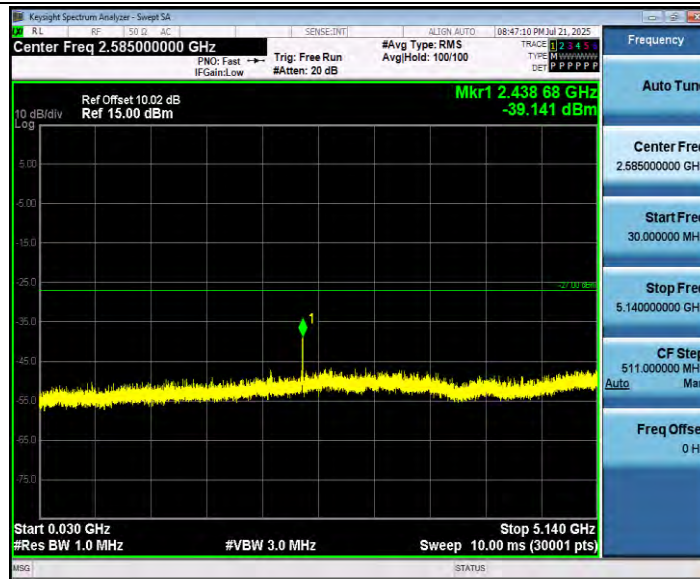
11A_Ant1_5180_30~5140



11A_Ant1_5180_5360~27000



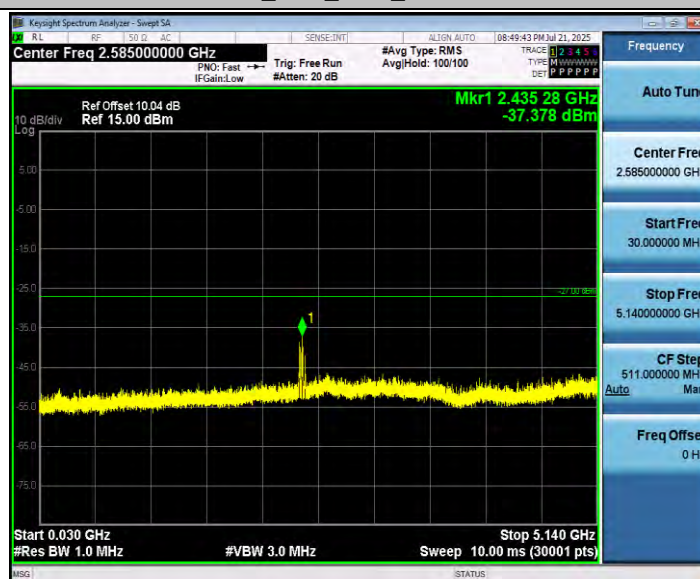
11A_Ant1_5200_30~5140



11A_Ant1_5200_5360~27000



11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~27000



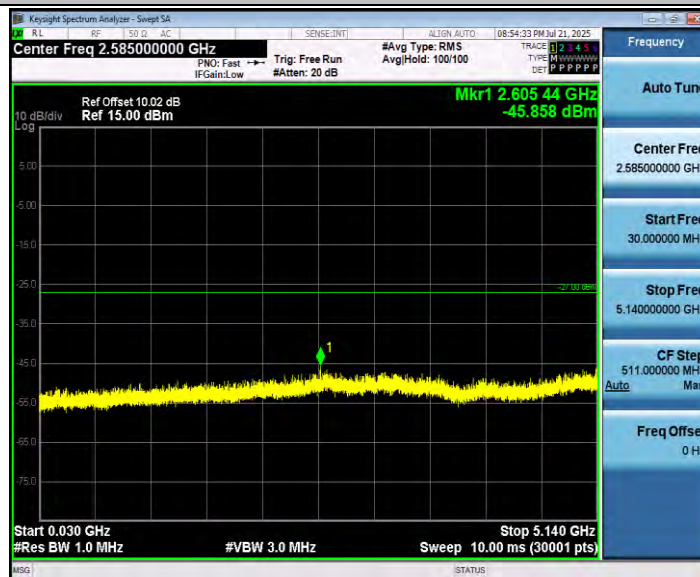
11N20SISO_Ant1_5180_30~5140



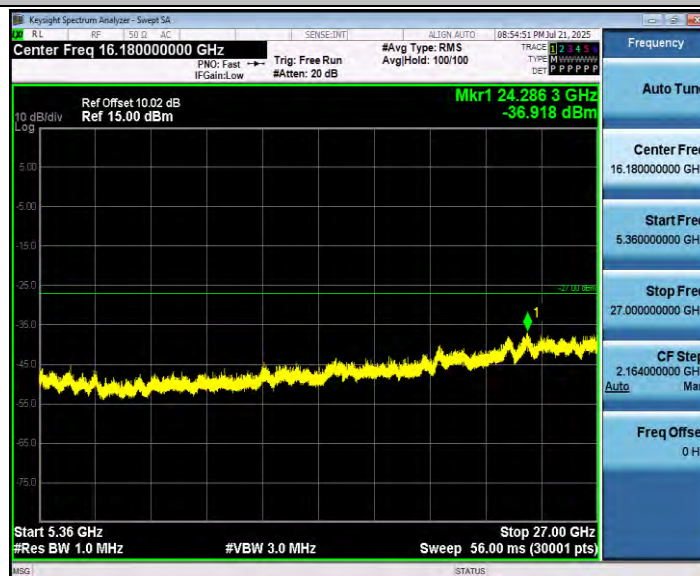
11N20SISO_Ant1_5180_5360~27000



11N20SISO_Ant1_5200_30~5140



11N20SISO_Ant1_5200_5360~27000



11N20SISO_Ant1_5240_30~5140



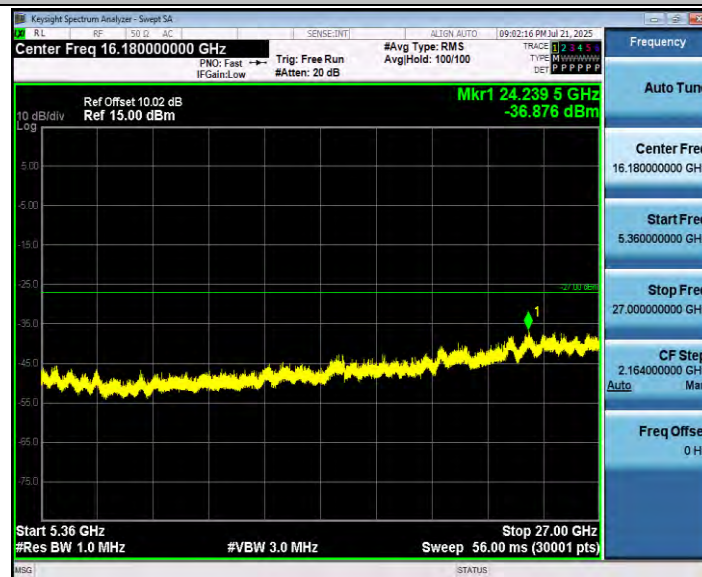
11N20SISO_Ant1_5240_5360~27000



11N40SISO_Ant1_5190_30~5140



11N40SISO_Ant1_5190_5360~27000



11N40SISO_Ant1_5230_30~5140



11N40SISO_Ant1_5230_5360~27000



11AC20SISO_Ant1_5180_30~5140



11AC20SISO_Ant1_5180_5360~27000



11AC20SISO_Ant1_5200_30~5140



11AC20SISO_Ant1_5200_5360~27000



11AC20SISO_Ant1_5240_30~5140



11AC20SISO_Ant1_5240_5360~27000



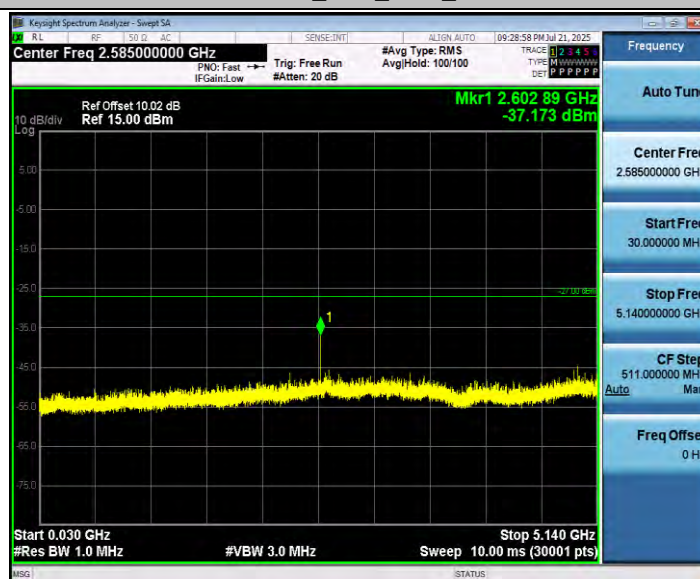
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11AC40SISO_Ant1_5190_5360~27000



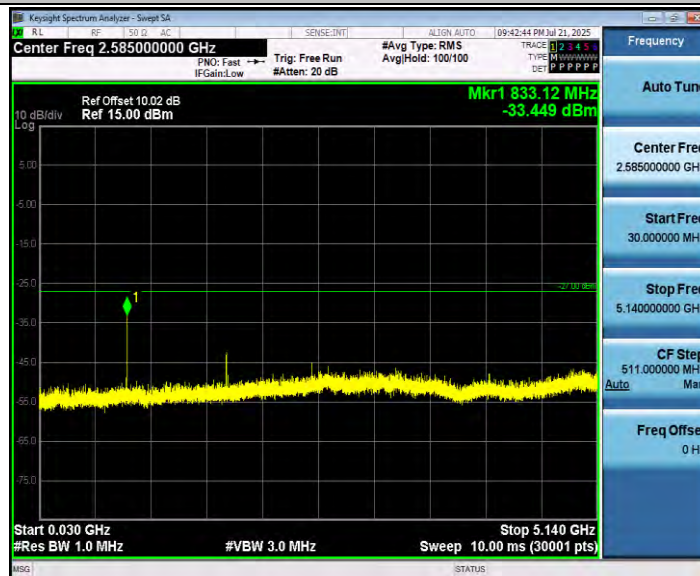
11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~27000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~27000

