

Case No. : <u>GTS20241125007-1-03</u>
Ambient Condition: <u>23</u> °C, <u>47</u> %RH
According Standard: ■Part15E
Test Date: <u>2025.11.14-2025.11.24</u> Test Engineer: <u>Evan ouyang</u>

AppendixC.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.120	5168.960	5189.080	---	---
		5200	20.120	5189.080	5209.200	---	---
		5240	19.880	5229.000	5248.880	---	---
11N20SISO	Ant1	5180	20.760	5169.240	5190.000	---	---
		5200	20.600	5189.240	5209.840	---	---
		5240	21.000	5228.840	5249.840	---	---
11N40SISO	Ant1	5190	46.720	5169.920	5216.640	---	---
		5230	40.400	5210.480	5250.880	---	---
11AC20SISO	Ant1	5180	21.880	5169.080	5190.960	---	---
		5200	21.440	5189.360	5210.800	---	---
		5240	21.200	5229.240	5250.440	---	---
11AC40SISO	Ant1	5190	46.560	5169.840	5216.400	---	---
		5230	41.760	5209.840	5251.600	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



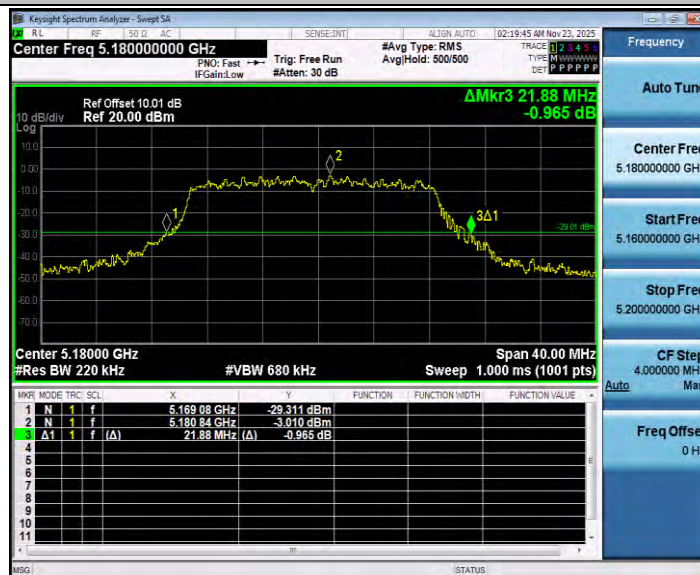
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

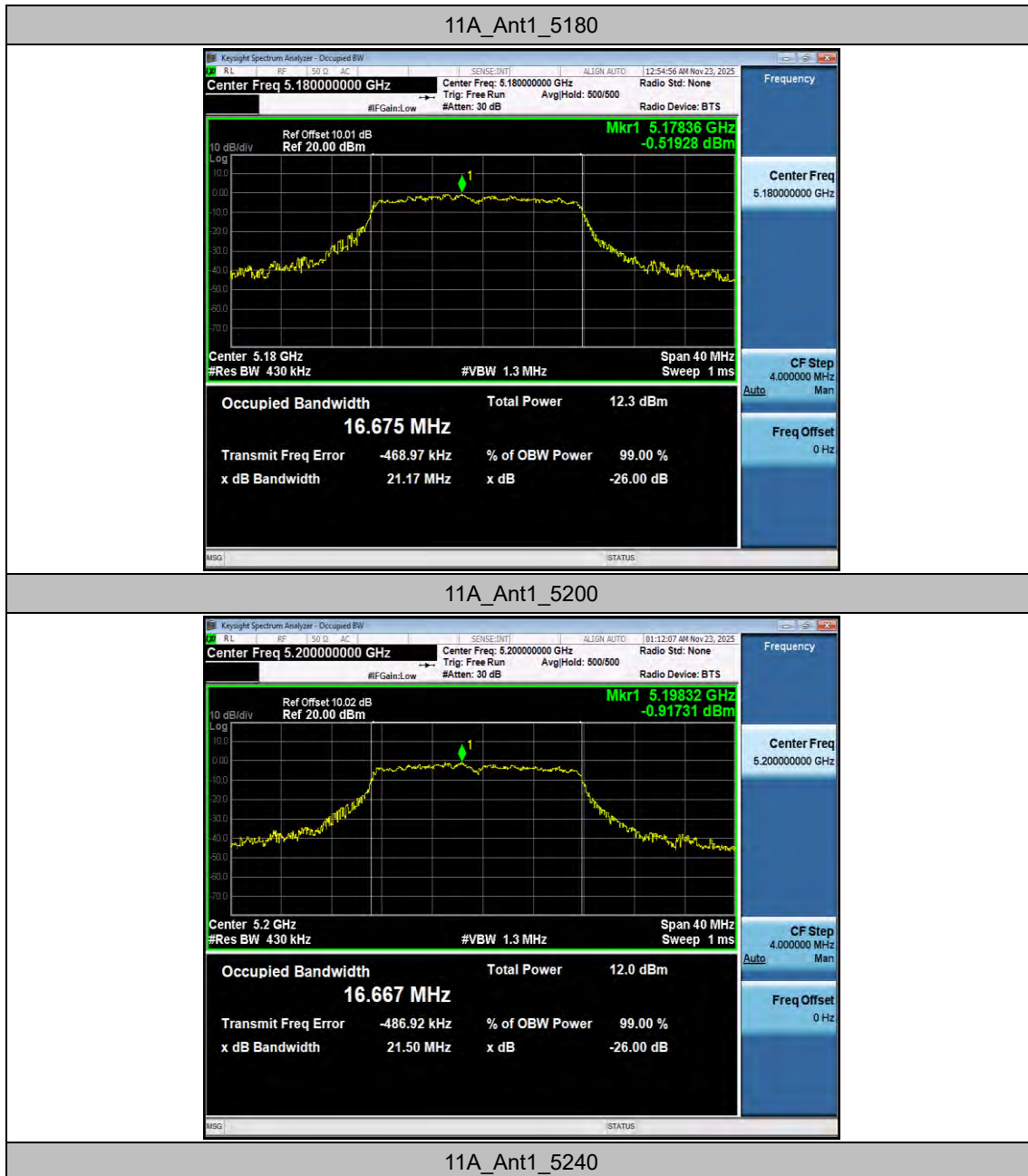


AppendixC.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.675	5171.1935	5187.8685	---	---
		5200	16.667	5191.1796	5207.8466	---	---
		5240	16.616	5231.1999	5247.8159	---	---
11N20SISO	Ant1	5180	17.894	5170.5717	5188.4657	---	---
		5200	17.839	5190.6237	5208.4627	---	---
		5240	17.974	5230.5314	5248.5054	---	---
11N40SISO	Ant1	5190	36.201	5171.5267	5207.7277	---	---
		5230	36.124	5211.5126	5247.6366	---	---
11AC20SISO	Ant1	5180	18.069	5170.6646	5188.7336	---	---
		5200	18.114	5190.6613	5208.7753	---	---
		5240	18.055	5230.6586	5248.7136	---	---
11AC40SISO	Ant1	5190	36.156	5171.5582	5207.7142	---	---
		5230	36.106	5211.5283	5247.6343	---	---

Test Graphs





11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



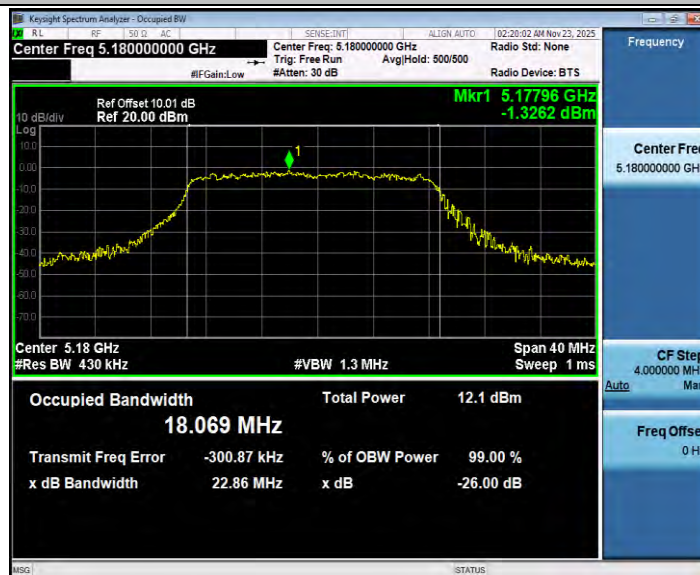
11N40SISO_Ant1_5190



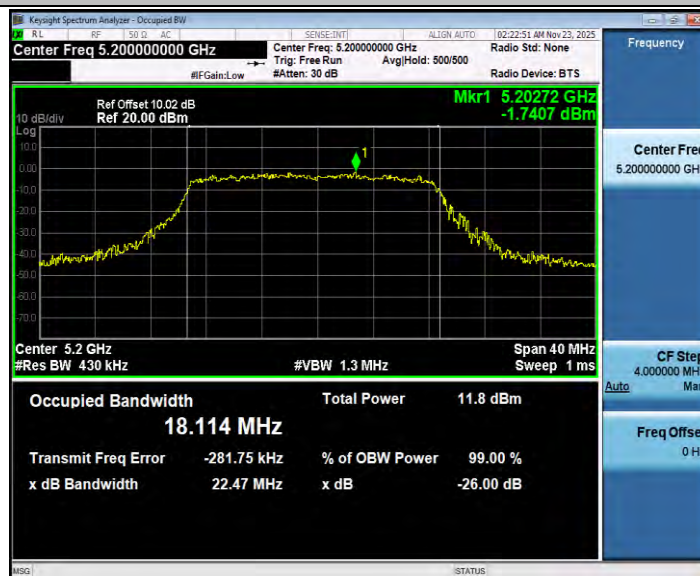
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

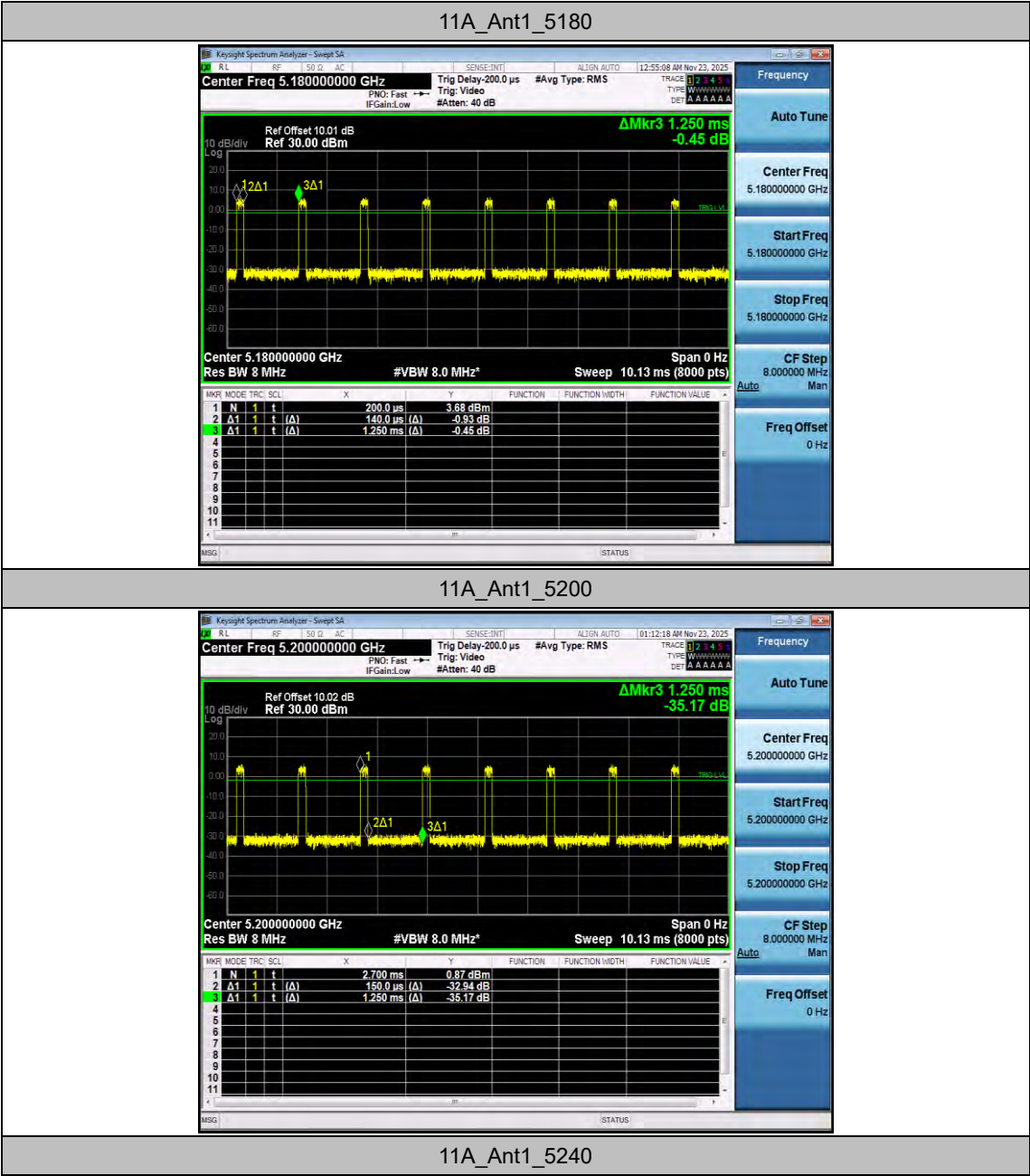


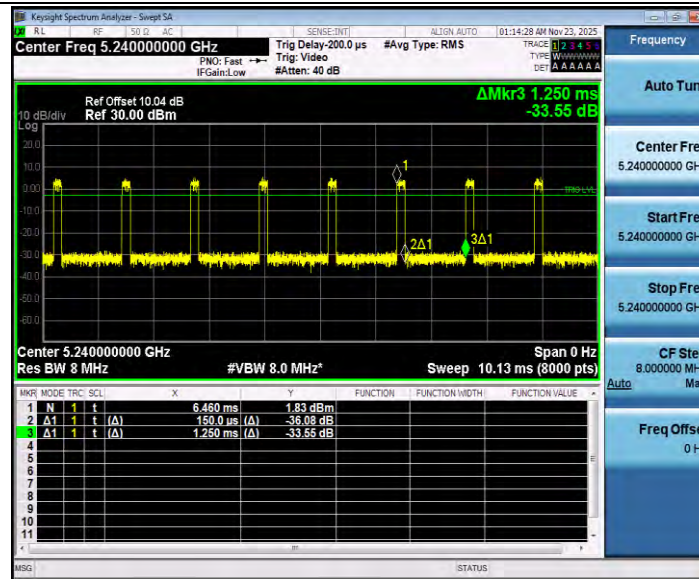
Appendix C.3: Duty Cycle

Test Result

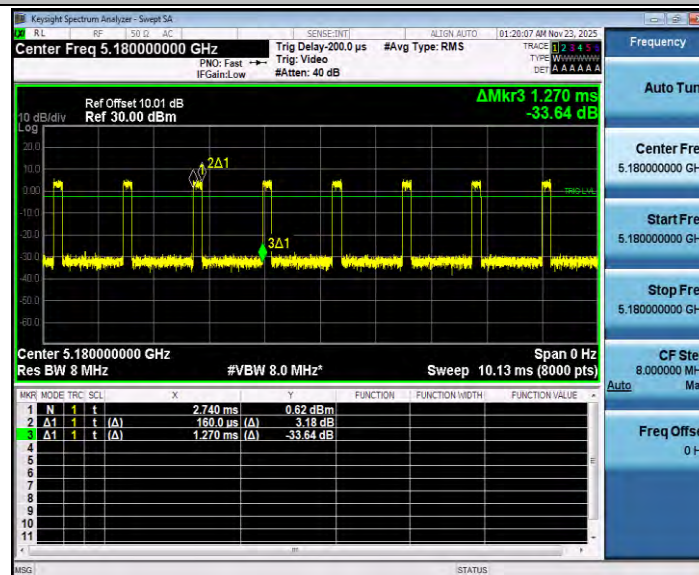
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	0.14	1.25	11.20	9.51	7.14
		5200	0.15	1.25	12.00	9.21	6.67
		5240	0.15	1.25	12.00	9.21	6.67
11N20SISO	Ant1	5180	0.16	1.27	12.60	9.00	6.25
		5200	0.16	1.27	12.60	9.00	6.25
		5240	0.16	1.27	12.60	9.00	6.25
11N40SISO	Ant1	5190	0.17	1.28	13.28	8.77	5.88
		5230	0.17	1.28	13.28	8.77	5.88
11AC20SISO	Ant1	5180	0.17	1.28	13.28	8.77	5.88
		5200	0.17	1.28	13.28	8.77	5.88
		5240	0.17	1.28	13.28	8.77	5.88
11AC40SISO	Ant1	5190	0.18	1.29	13.95	8.55	5.56
		5230	0.17	1.28	13.28	8.77	5.88

Test Graphs

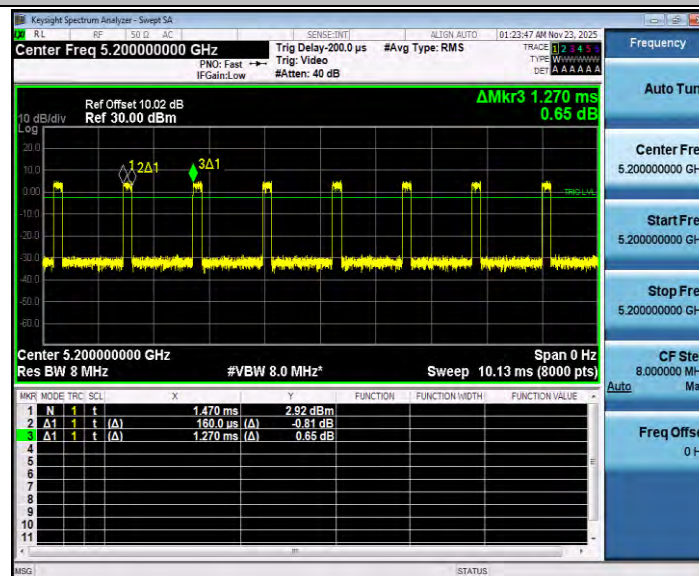




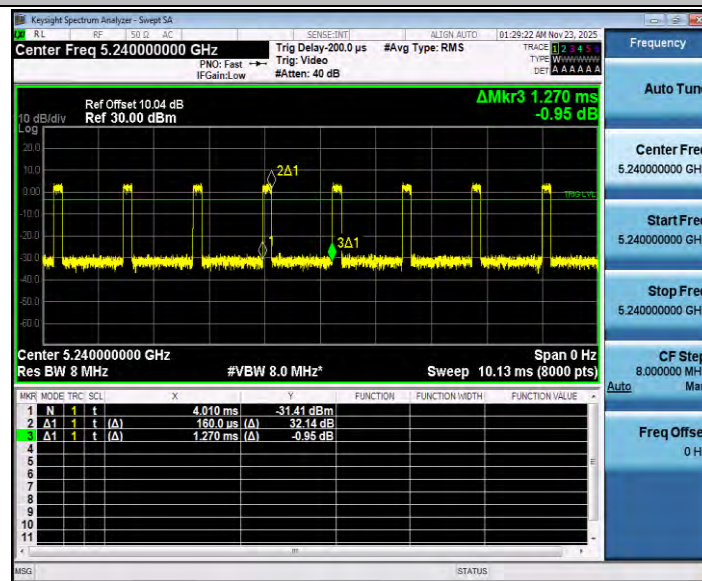
11N20SISO_Ant1_5180



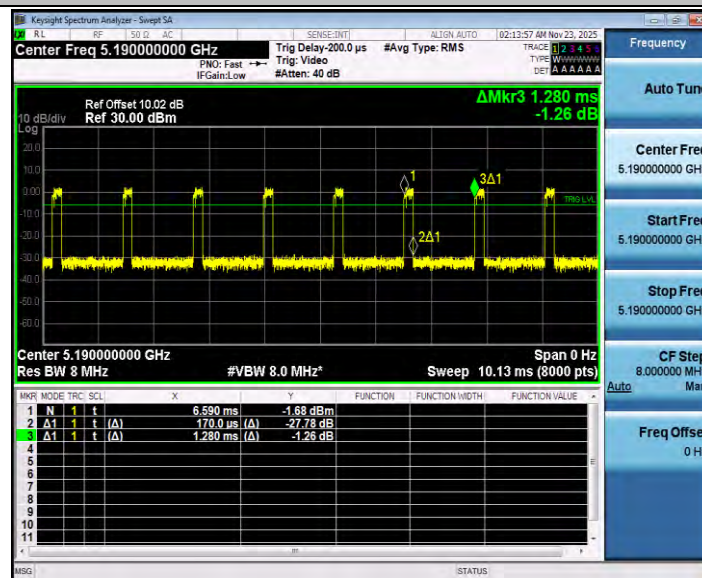
11N20SISO_Ant1_5200



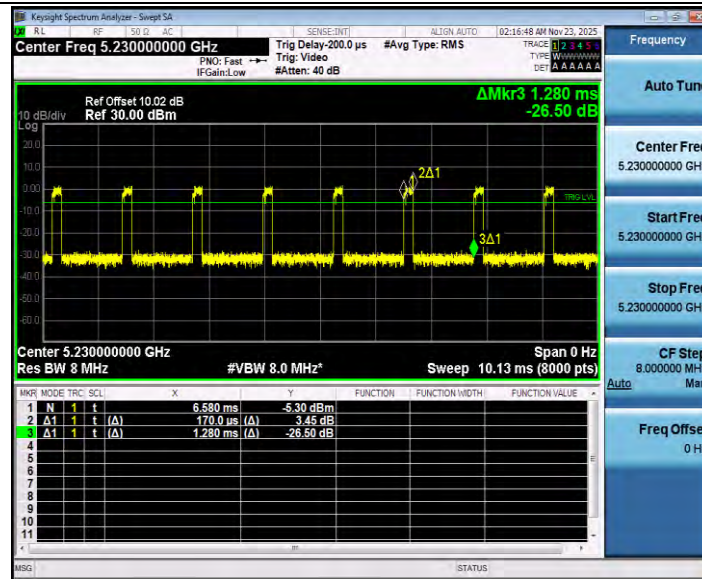
11N20SISO_Ant1_5240



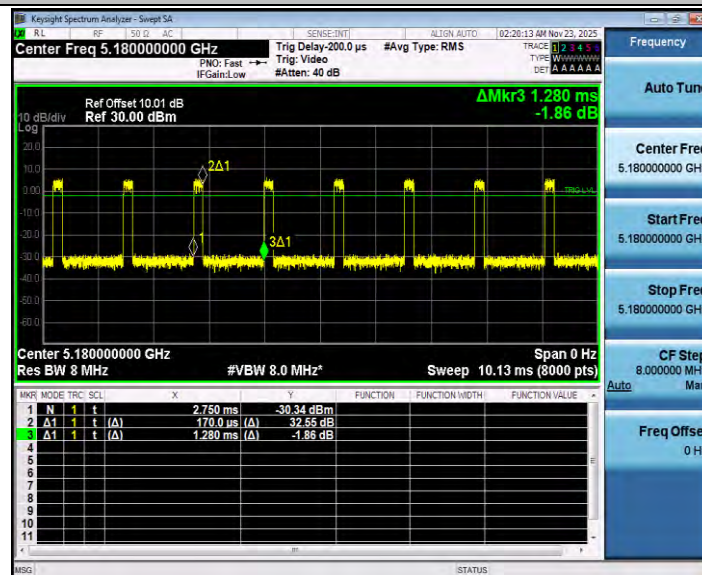
11N40SISO_Ant1_5190



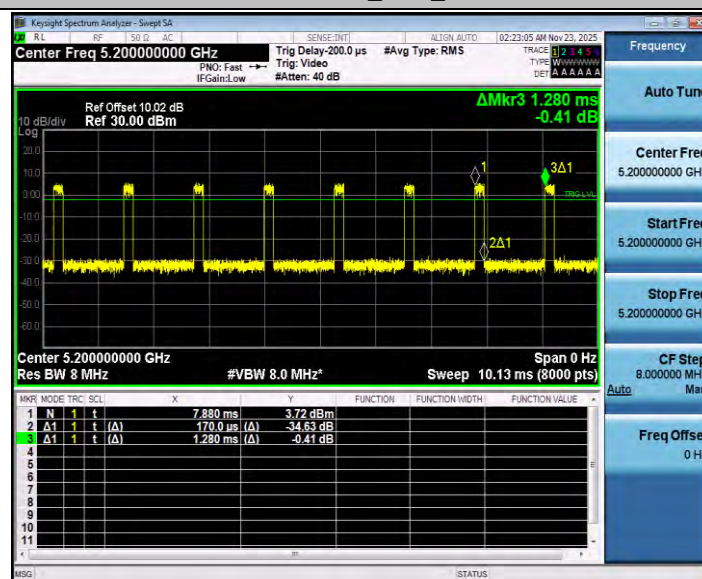
11N40SISO_Ant1_5230

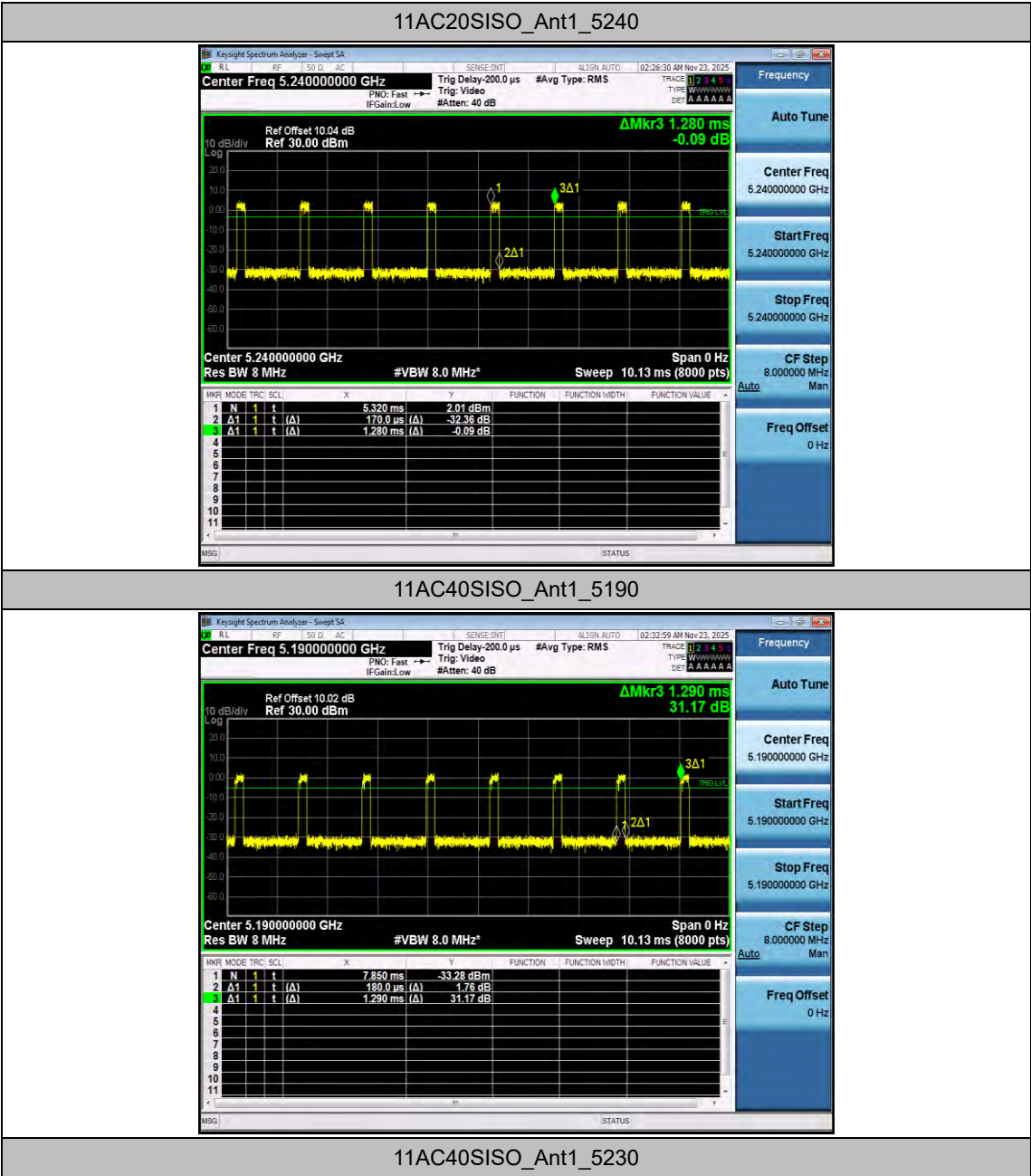


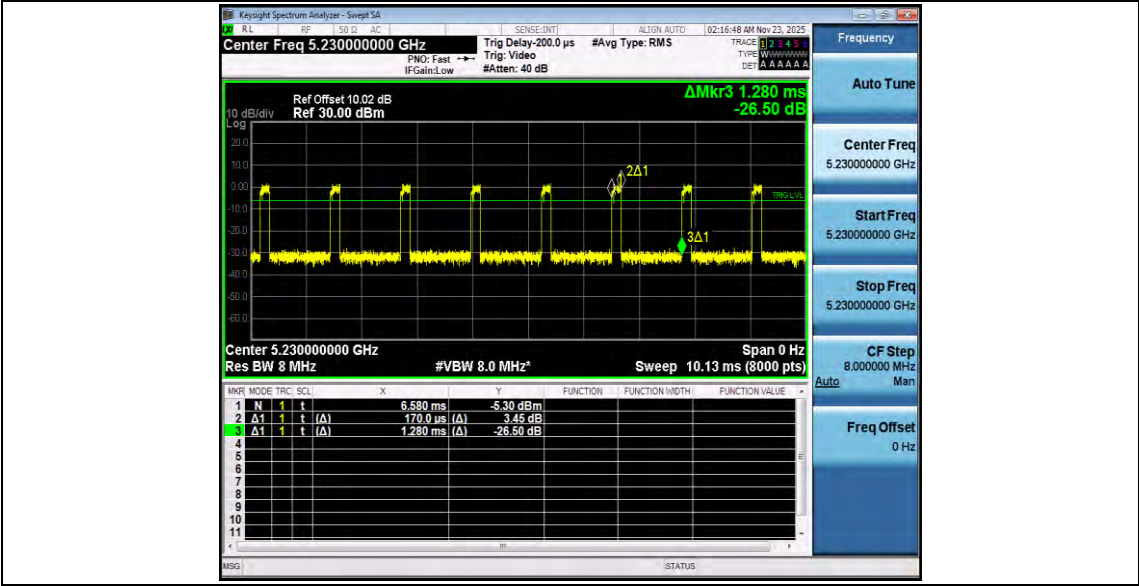
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200







AppendixC.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	-2.94	11.20	9.51	6.57	≤23.98	PASS
		5200	-3.22	12.00	9.21	5.99	≤23.98	PASS
		5240	-5.00	12.00	9.21	4.21	≤23.98	PASS
11N20SISO	Ant1	5180	-2.41	12.60	9.00	6.59	≤23.98	PASS
		5200	-3.16	12.60	9.00	5.84	≤23.98	PASS
		5240	-3.57	12.60	9.00	5.43	≤23.98	PASS
11N40SISO	Ant1	5190	-2.54	13.28	8.77	6.23	≤23.98	PASS
		5230	-3.53	13.28	8.77	5.24	≤23.98	PASS
11AC20SISO	Ant1	5180	-2.14	13.28	8.77	6.63	≤23.98	PASS
		5200	-2.33	13.28	8.77	6.44	≤23.98	PASS
		5240	-3.59	13.28	8.77	5.18	≤23.98	PASS
11AC40SISO	Ant1	5190	-2.56	13.95	8.55	5.99	≤23.98	PASS
		5230	-3.17	13.28	8.77	5.60	≤23.98	PASS

AppendixC.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-3.02	≤11.00	PASS
		5200	-3.63	≤11.00	PASS
		5240	-4.54	≤11.00	PASS
11N20SISO	Ant1	5180	-3.55	≤11.00	PASS
		5200	-3.66	≤11.00	PASS
		5240	-4.71	≤11.00	PASS
11N40SISO	Ant1	5190	-6.71	≤11.00	PASS
		5230	-7.49	≤11.00	PASS
11AC20SISO	Ant1	5180	-3.51	≤11.00	PASS
		5200	-3.75	≤11.00	PASS
		5240	-4.75	≤11.00	PASS
11AC40SISO	Ant1	5190	-6.99	≤11.00	PASS
		5230	-7.57	≤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 Factorand RBW Factoriscompensatedinthe 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



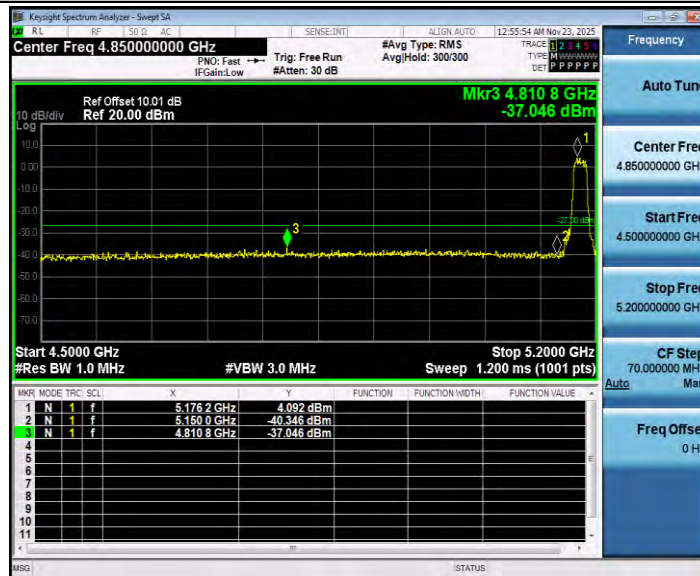
Appendix C.6: Band edge measurements

Test Result B1

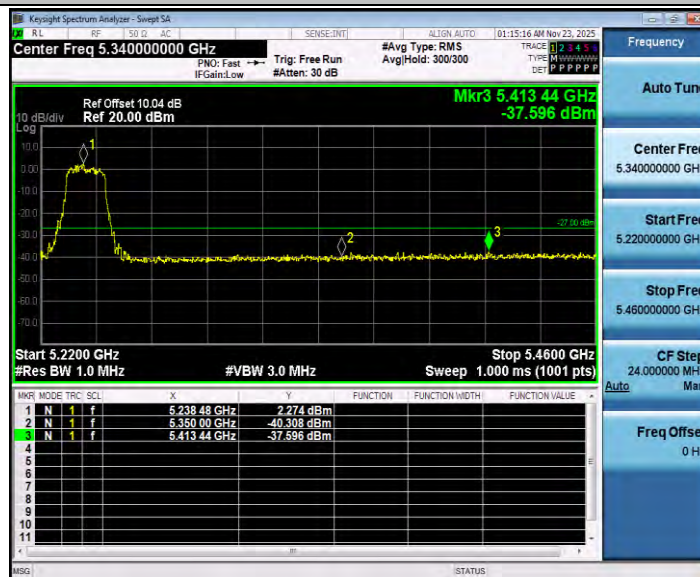
TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.05	≤-27	PASS
		High	5240	-37.6	≤-27	PASS
11N20SISO	Ant1	Low	5180	-36.85	≤-27	PASS
		High	5240	-37.27	≤-27	PASS
11N40SISO	Ant1	Low	5190	-36.43	≤-27	PASS
		High	5230	-37.5	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-37.05	≤-27	PASS
		High	5240	-37.53	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-34.91	≤-27	PASS
		High	5230	-37.69	≤-27	PASS

Test GraphsB1

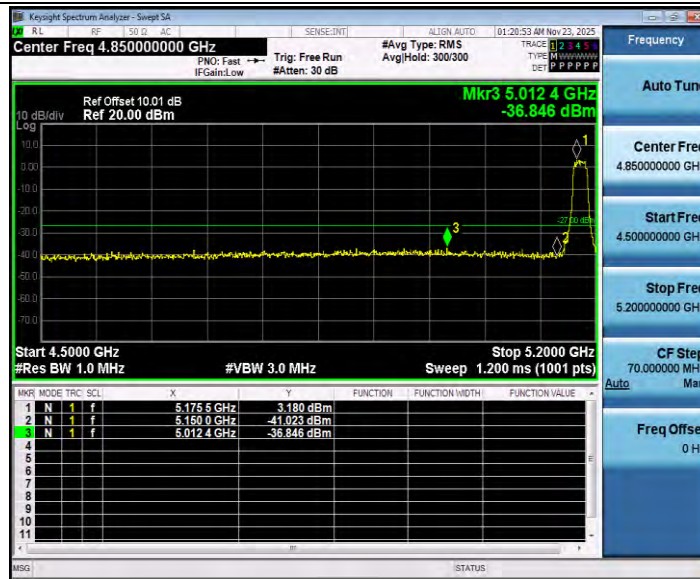
11A_Ant1_Low_5180



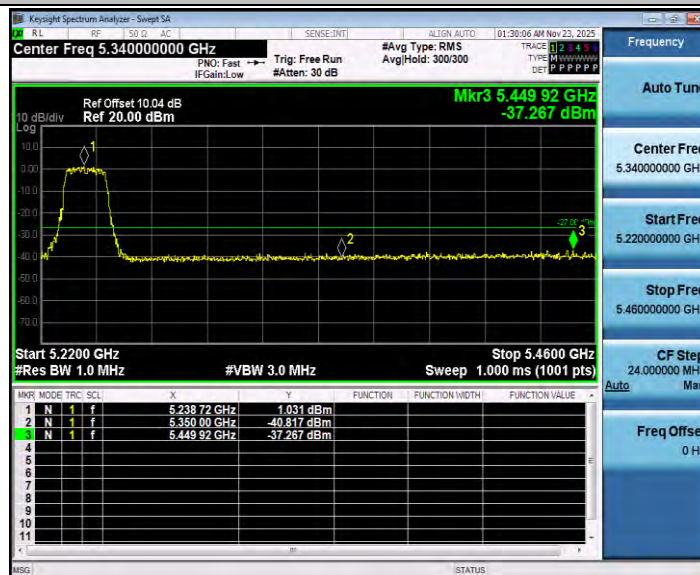
11A_Ant1_High_5240



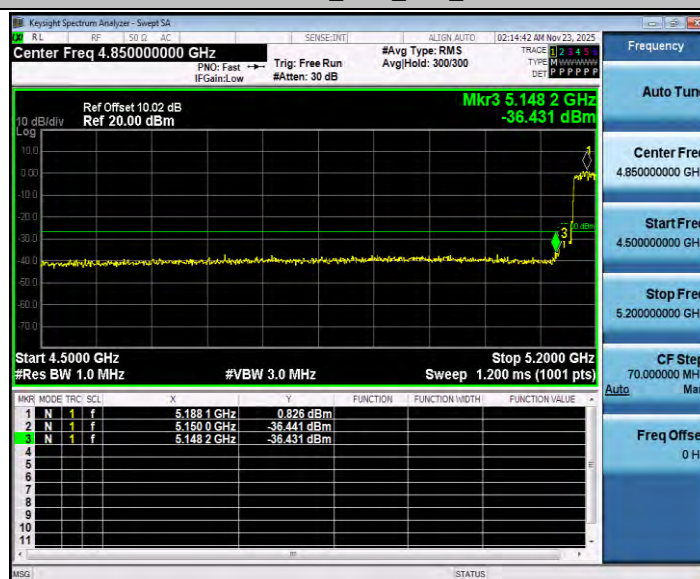
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



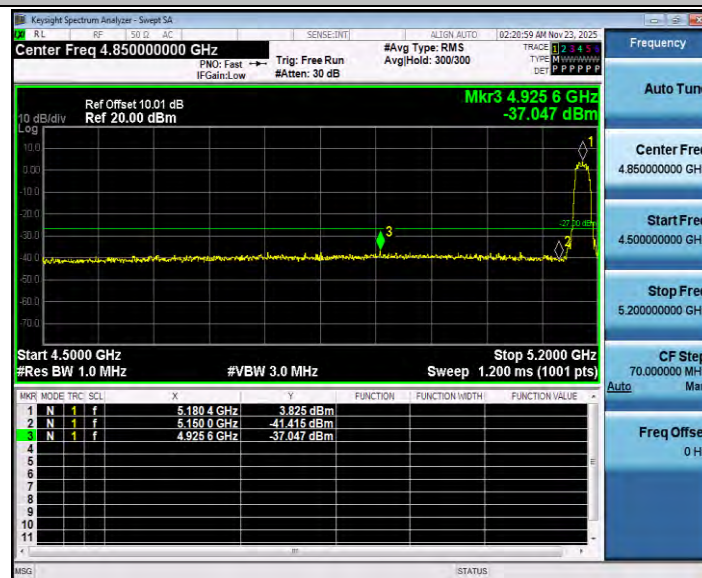
11N40SISO_Ant1_Low_5190



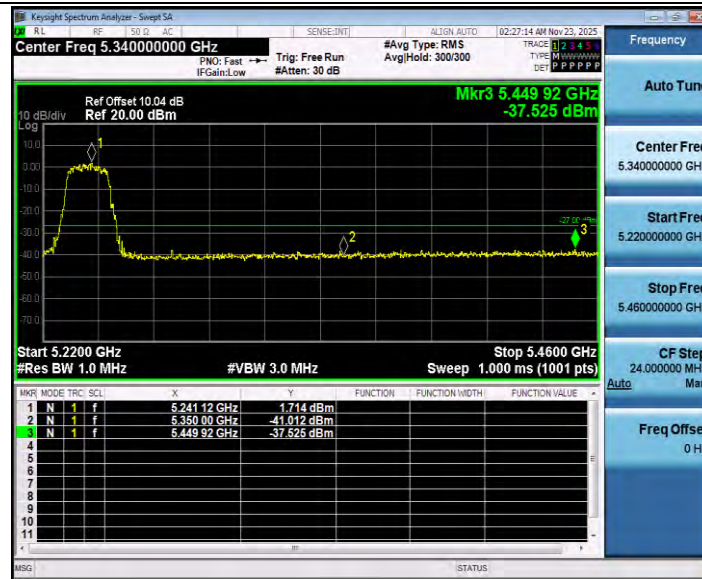
11N40SISO_Ant1_High_5230



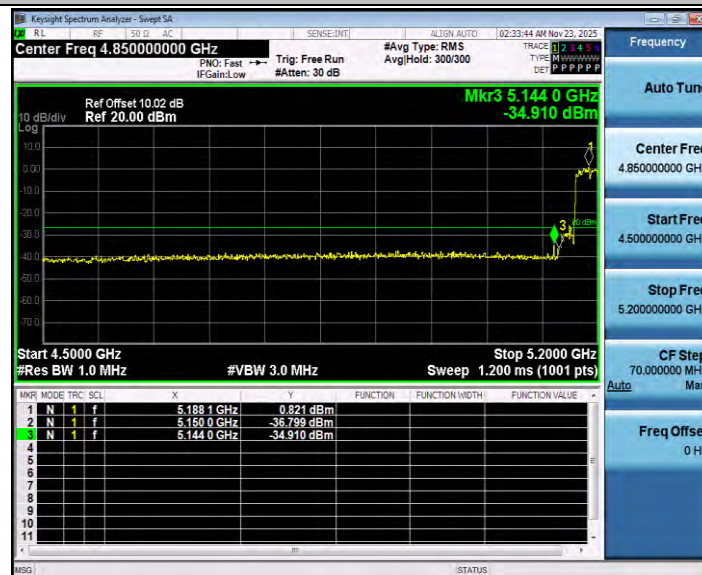
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



AppendixC.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	4953.31	-46.15	≤-27	PASS
			5360~27000	25277.46	-37.23	≤-27	PASS
		5200	30~5140	4810.41	-46.19	≤-27	PASS
			5360~27000	24240.18	-37.15	≤-27	PASS
		5240	30~5140	3155.62	-46.34	≤-27	PASS
			5360~27000	26519.59	-37.53	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	2708.83	-46.23	≤-27	PASS
			5360~27000	26983.41	-36.96	≤-27	PASS
		5200	30~5140	5034.73	-46.69	≤-27	PASS
			5360~27000	26812.45	-37.71	≤-27	PASS
		5240	30~5140	2529.13	-44	≤-27	PASS
			5360~27000	26055.77	-36.91	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	2993.63	-46.44	≤-27	PASS
			5360~27000	26596.77	-36.44	≤-27	PASS
		5230	30~5140	2670.85	-46.38	≤-27	PASS
			5360~27000	26089.68	-37.54	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	2583.13	-45.92	≤-27	PASS
			5360~27000	24769.64	-36.5	≤-27	PASS
		5200	30~5140	3039.62	-46.89	≤-27	PASS
			5360~27000	25640.29	-36.51	≤-27	PASS
		5240	30~5140	4833.57	-45.77	≤-27	PASS
			5360~27000	26666.02	-36.96	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5134.55	-41.32	≤-27	PASS
			5360~27000	26087.51	-36.6	≤-27	PASS
		5230	30~5140	3043.37	-46.23	≤-27	PASS
			5360~27000	24931.94	-37.18	≤-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



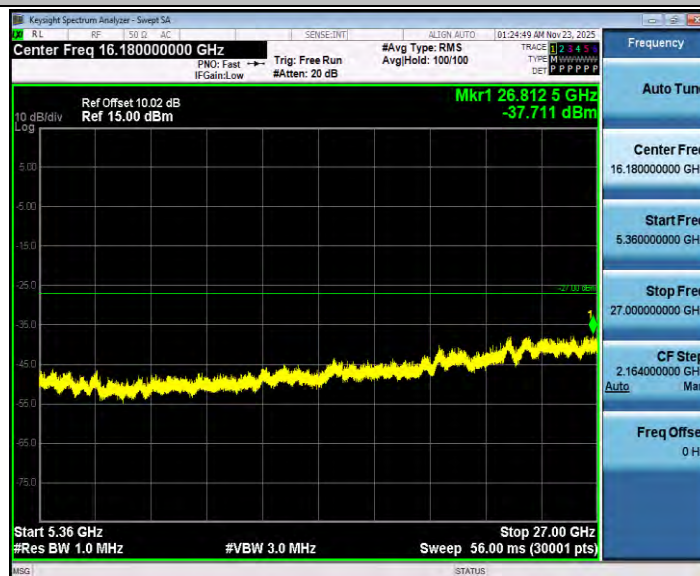
11N20SISO_Ant1_5180_5360~27000



11N20SISO_Ant1_5200_30~5140



11N20SISO_Ant1_5200_5360~27000



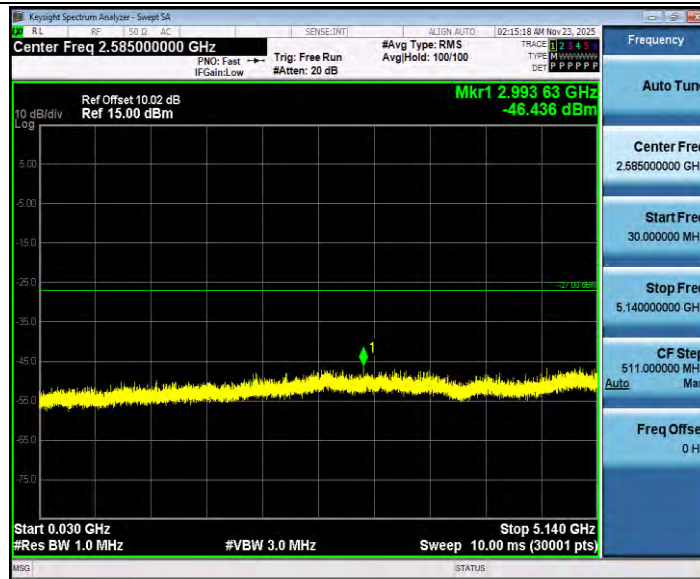
11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~27000



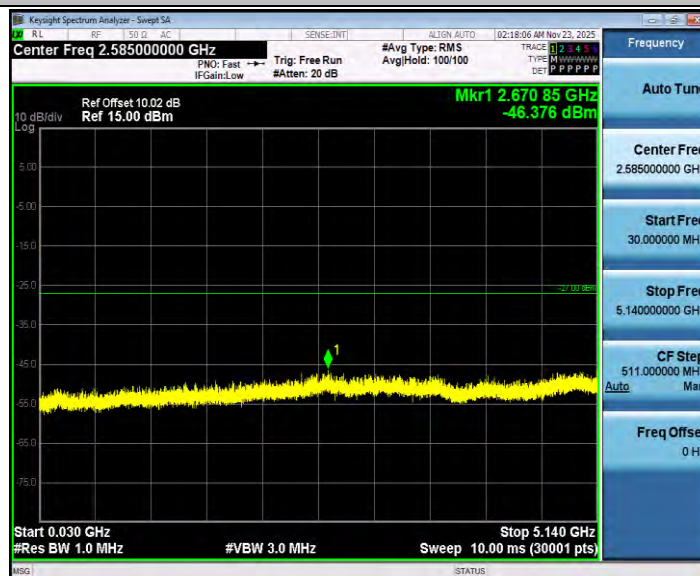
11N40SISO_Ant1_5190_30~5140



11N40SISO_Ant1_5190_5360~27000

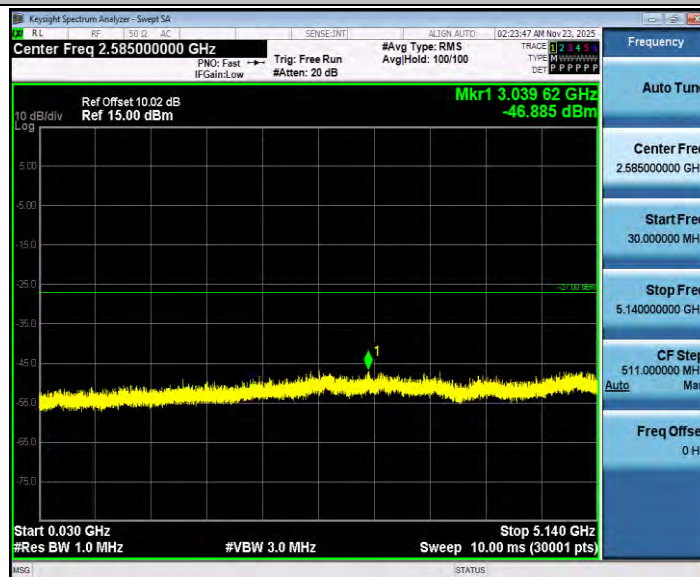


11N40SISO_Ant1_5230_30~5140

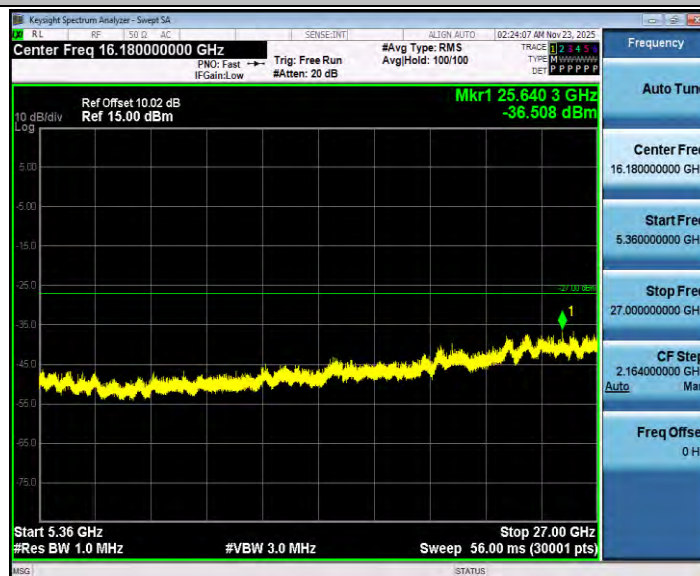




11AC20SISO_Ant1_5200_30~5140



11AC20SISO_Ant1_5200_5360~27000



11AC20SISO_Ant1_5240_30~5140



11AC20SISO_Ant1_5240_5360~27000



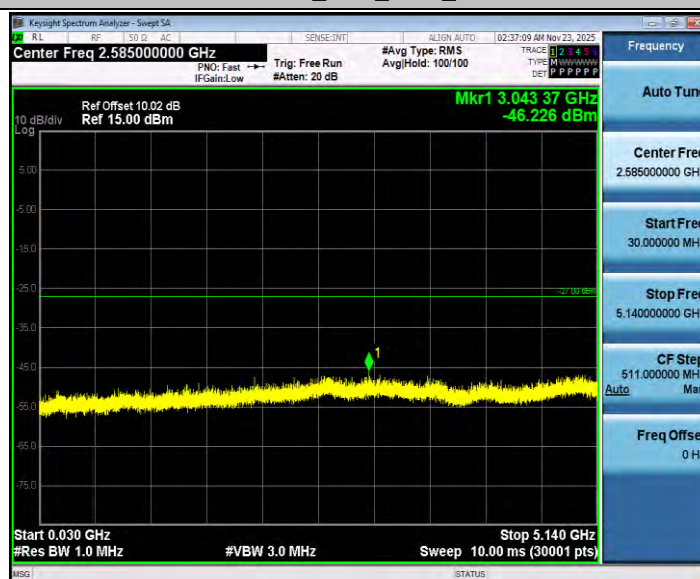
11AC40SISO_Ant1_5190_30~5140

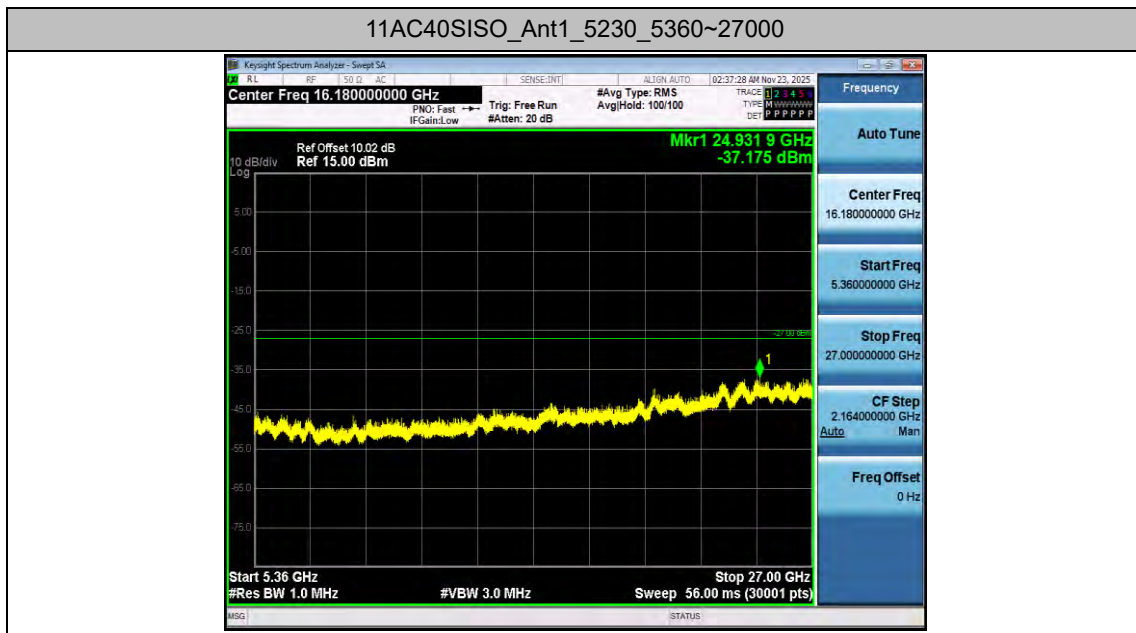


11AC40SISO_Ant1_5190_5360~27000



11AC40SISO_Ant1_5230_30~5140





Appendix C.8: Emissions in Restricted Bands

Test Result

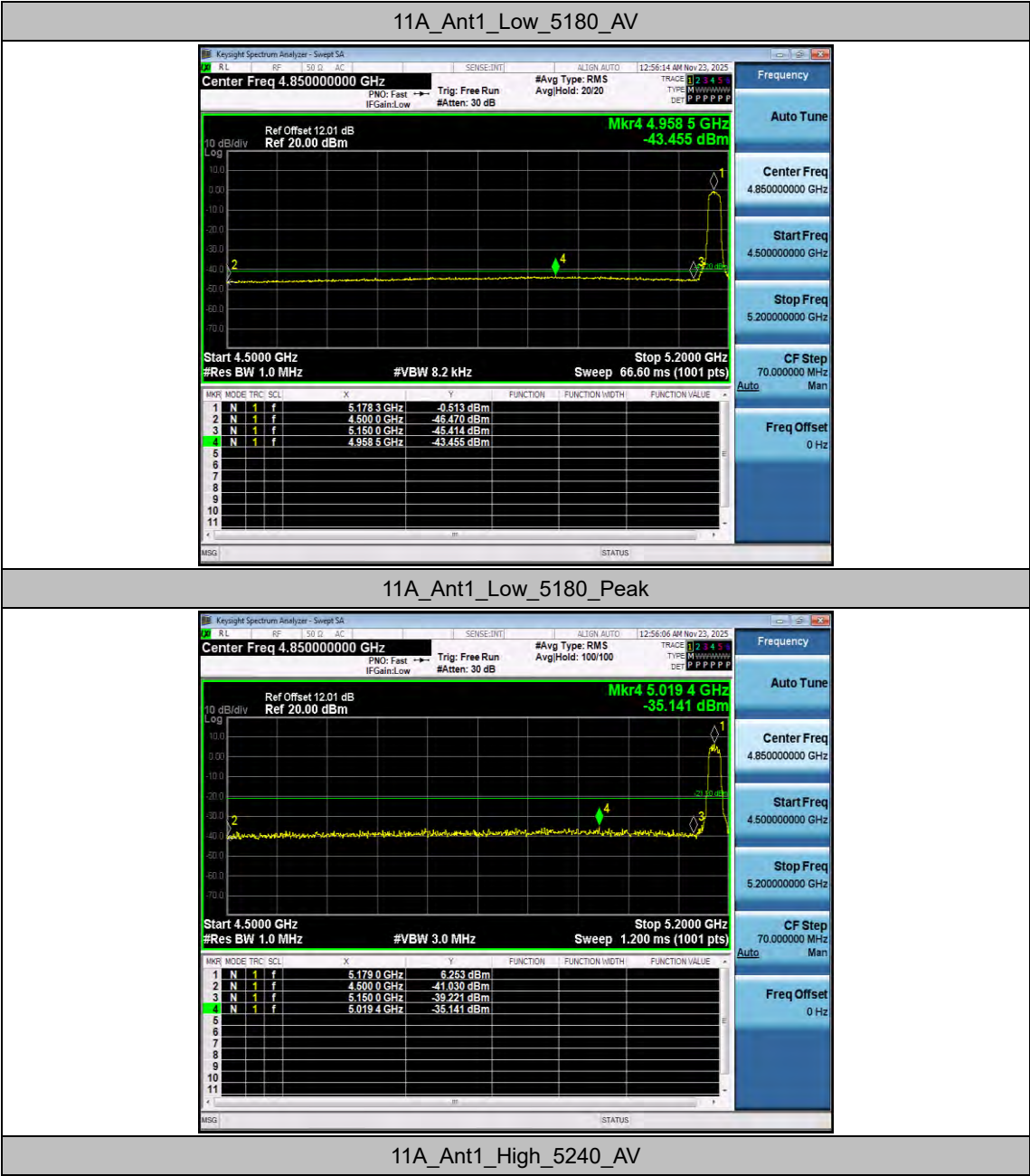
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-46.47	≤-41.20	48.73	≤54	PASS
				AV	4958.500	-43.46	≤-41.20	51.74	≤54	PASS
				AV	5150.000	-45.41	≤-41.20	49.79	≤54	PASS
				Peak	4500.000	-41.03	≤-21.20	54.17	≤74	PASS
				Peak	5019.400	-35.14	≤-21.20	60.06	≤74	PASS
				Peak	5150.000	-39.22	≤-21.20	55.98	≤74	PASS
		High	5240	AV	5350.000	-45.31	≤-41.20	49.89	≤54	PASS
				AV	5415.360	-43.99	≤-41.20	51.21	≤54	PASS
				AV	5460.000	-44.9	≤-41.20	50.30	≤54	PASS
				Peak	5350.000	-38.43	≤-21.20	56.77	≤74	PASS
				Peak	5457.120	-35.27	≤-21.20	59.93	≤74	PASS
				Peak	5460.000	-39.41	≤-21.20	55.79	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-46.23	≤-41.20	48.97	≤54	PASS
				AV	4951.500	-43.08	≤-41.20	52.12	≤54	PASS
				AV	5150.000	-45.75	≤-41.20	49.45	≤54	PASS
				Peak	4500.000	-40.35	≤-21.20	54.85	≤74	PASS
				Peak	4758.300	-34.88	≤-21.20	60.32	≤74	PASS
				Peak	5150.000	-40.6	≤-21.20	54.60	≤74	PASS
		High	5240	AV	5350.000	-45.72	≤-41.20	49.48	≤54	PASS
				AV	5413.920	-43.86	≤-41.20	51.34	≤54	PASS
				AV	5460.000	-44.96	≤-41.20	50.24	≤54	PASS
				Peak	5350.000	-39.25	≤-21.20	55.95	≤74	PASS
				Peak	5459.280	-36.23	≤-21.20	58.97	≤74	PASS
				Peak	5460.000	-37.77	≤-21.20	57.43	≤74	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-46.86	≤-41.20	48.34	≤54	PASS
				AV	4957.100	-43.75	≤-41.20	51.45	≤54	PASS
				AV	5150.000	-44.03	≤-41.20	51.17	≤54	PASS
				Peak	4500.000	-39.7	≤-21.20	55.50	≤74	PASS
				Peak	5145.400	-33.9	≤-21.20	61.30	≤74	PASS
				Peak	5150.000	-38.82	≤-21.20	56.38	≤74	PASS
		High	5230	AV	5350.000	-44.94	≤-41.20	50.26	≤54	PASS
				AV	5450.900	-43.88	≤-41.20	51.32	≤54	PASS
				AV	5460.000	-44.73	≤-41.20	50.47	≤54	PASS
				Peak	5350.000	-39.17	≤-21.20	56.03	≤74	PASS
				Peak	5416.580	-34.13	≤-21.20	61.07	≤74	PASS
				Peak	5460.000	-37.27	≤-21.20	57.93	≤74	PASS

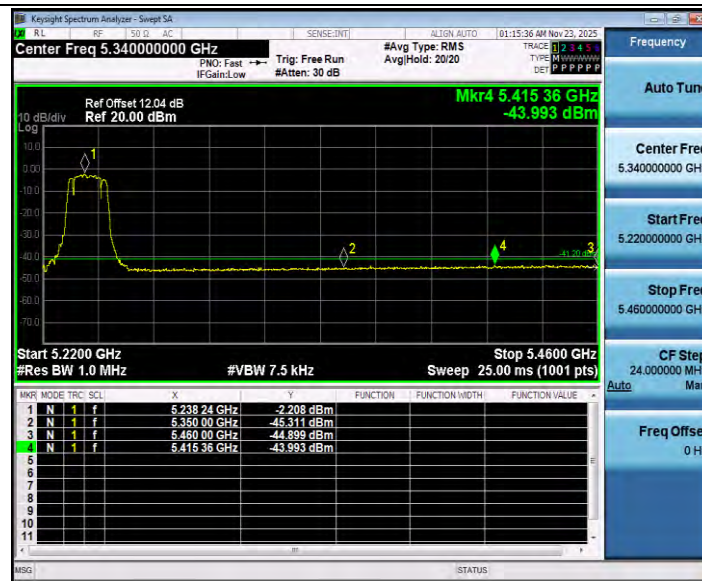
11AC20SI SO	Ant1	Low	5180	AV	4500.000	-46.53	≤ -41.20	48.67	≤ 54	PASS
				AV	4952.200	-43.68	≤ -41.20	51.52	≤ 54	PASS
				AV	5150.000	-45.73	≤ -41.20	49.47	≤ 54	PASS
				Peak	4500.000	-41.48	≤ -21.20	53.72	≤ 74	PASS
				Peak	4951.500	-35.35	≤ -21.20	59.85	≤ 74	PASS
				Peak	5150.000	-39.79	≤ -21.20	55.41	≤ 74	PASS
		High	5240	AV	5350.000	-45.52	≤ -41.20	49.68	≤ 54	PASS
				AV	5422.800	-44.05	≤ -41.20	51.15	≤ 54	PASS
				AV	5460.000	-44.3	≤ -41.20	50.90	≤ 54	PASS
				Peak	5350.000	-40.08	≤ -21.20	55.12	≤ 74	PASS
				Peak	5460.000	-35.96	≤ -21.20	59.24	≤ 74	PASS
11AC40SI SO	Ant1	Low	5190	AV	4500.000	-46.84	≤ -41.20	48.36	≤ 54	PASS
				AV	4990.700	-43.8	≤ -41.20	51.40	≤ 54	PASS
				AV	5150.000	-44.51	≤ -41.20	50.69	≤ 54	PASS
				Peak	4500.000	-40.3	≤ -21.20	54.90	≤ 74	PASS
				Peak	4872.400	-35.7	≤ -21.20	59.50	≤ 74	PASS
				Peak	5150.000	-38.14	≤ -21.20	57.06	≤ 74	PASS
		High	5230	AV	5350.000	-45.89	≤ -41.20	49.31	≤ 54	PASS
				AV	5440.760	-44.18	≤ -41.20	51.02	≤ 54	PASS
				AV	5460.000	-44.84	≤ -41.20	50.36	≤ 54	PASS
				Peak	5350.000	-40.68	≤ -21.20	54.52	≤ 74	PASS
				Peak	5438.420	-36.35	≤ -21.20	58.85	≤ 74	PASS
				Peak	5460.000	-39.17	≤ -21.20	56.03	≤ 74	PASS

Note:

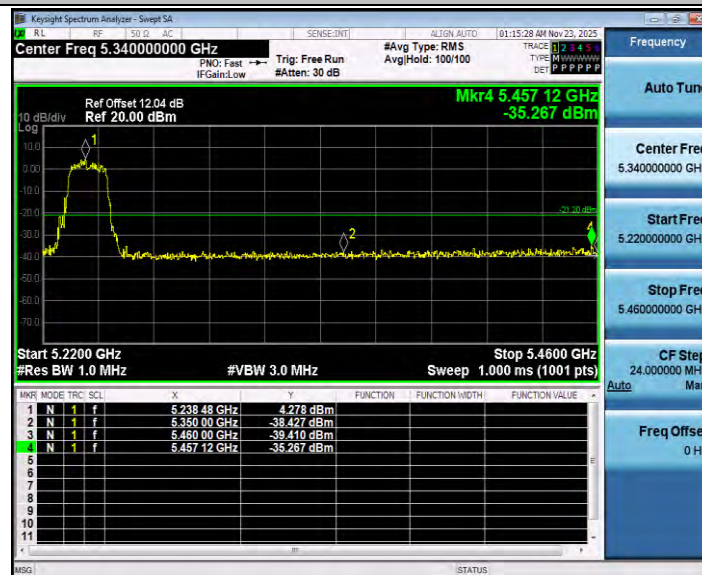
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





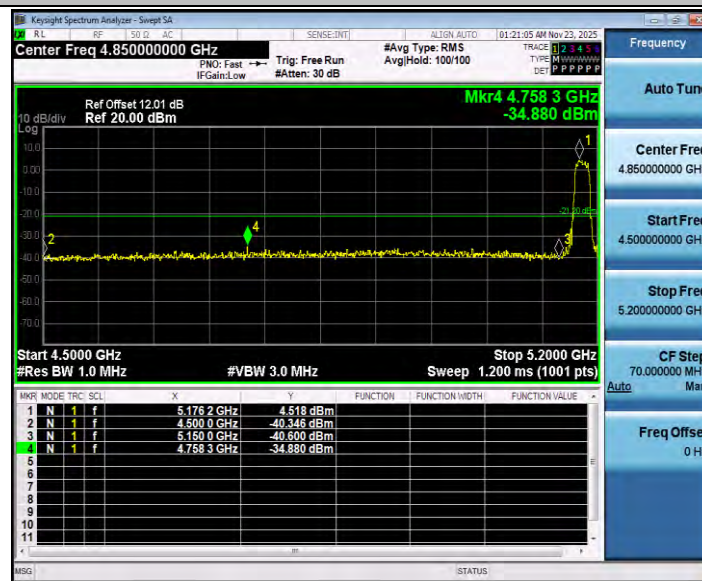
11A_Ant1_High_5240_Peak



11N20SISO_Ant1_Low_5180_AV



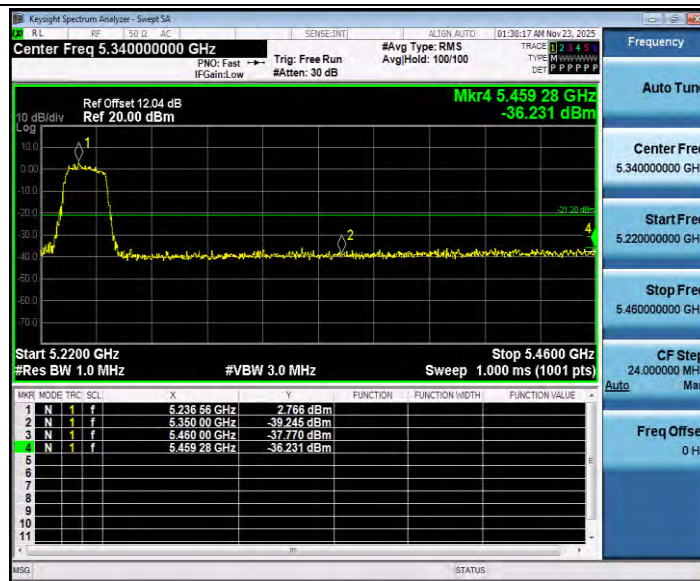
11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV



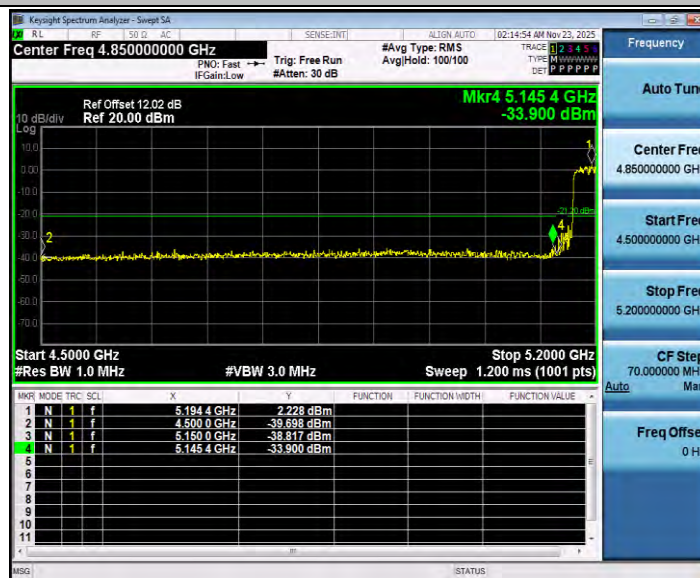
11N20SISO_Ant1_High_5240_Peak



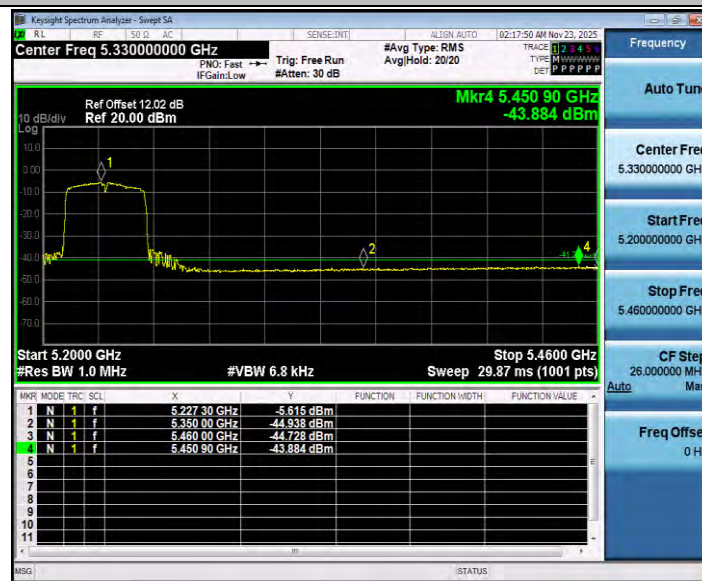
11N40SISO_Ant1_Low_5190_AV



11N40SISO_Ant1_Low_5190_Peak



11N40SISO_Ant1_High_5230_AV



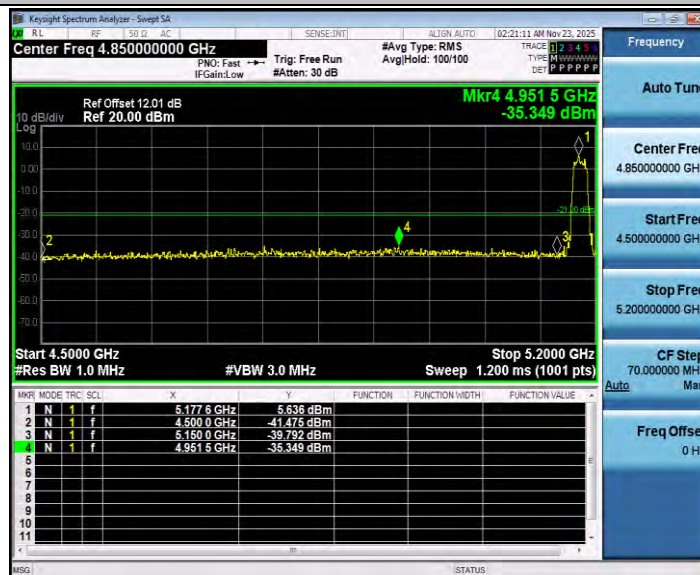
11N40SISO_Ant1_High_5230_Peak



11AC20SISO_Ant1_Low_5180_AV



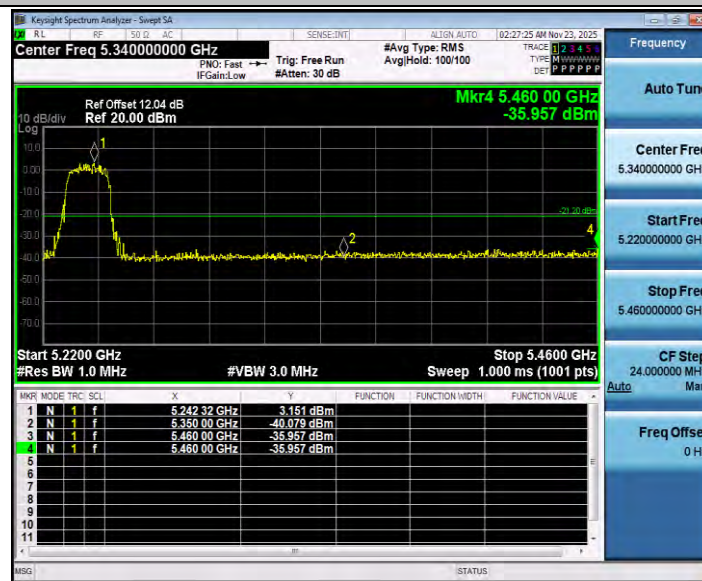
11AC20SISO_Ant1_Low_5180_Peak



11AC20SISO_Ant1_High_5240_AV



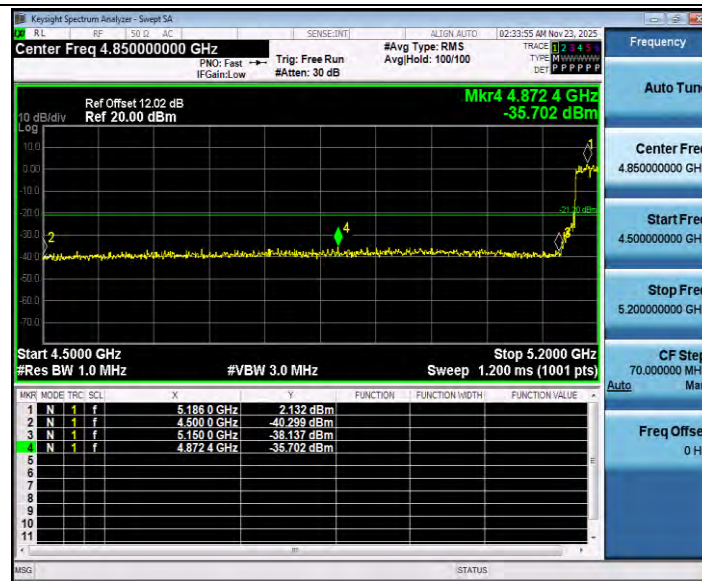
11AC20SISO_Ant1_High_5240_Peak



11AC40SISO_Ant1_Low_5190_AV



11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV



11AC40SISO_Ant1_High_5230_Peak

