Case No. : GTS20250509019-2-09	
Ambient Condition: 23 ℃, 52 %RH	
According Standard: ■Part15E	
Test Date: 2025.6.20	**Test Engineer:** Evan ouyang

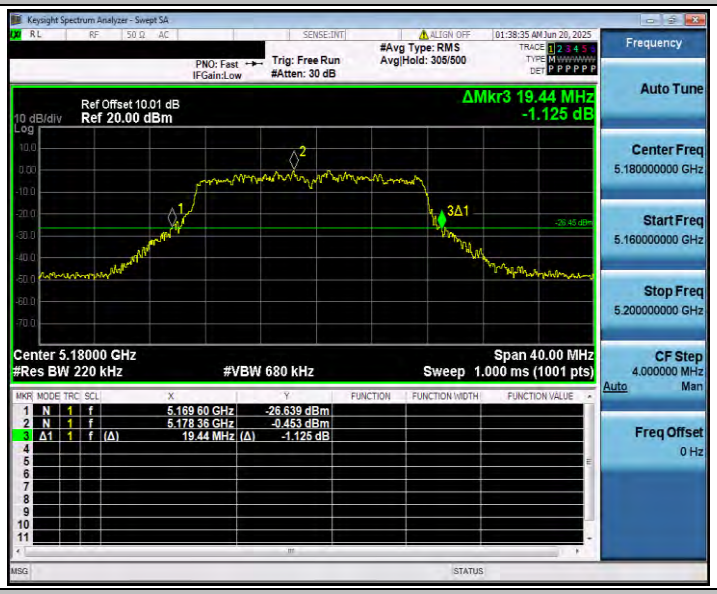
Appendix C.1: Emission Bandwidth

Test Result

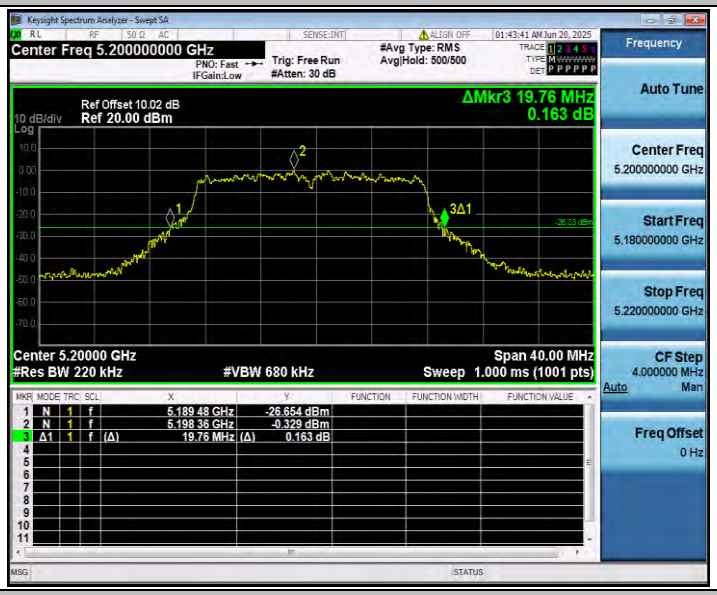
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.440	5169.600	5189.040	---	---
		5200	19.760	5189.480	5209.240	---	---
		5240	19.520	5229.640	5249.160	---	---
11N20SISO	Ant1	5180	20.560	5169.400	5189.960	---	---
		5200	20.800	5189.200	5210.000	---	---
		5240	20.600	5229.280	5249.880	---	---
11AC20SISO	Ant1	5180	20.880	5169.120	5190.000	---	---
		5200	21.000	5189.040	5210.040	---	---
		5240	20.840	5229.080	5249.920	---	---
11AX20SISO	Ant1	5180	20.280	5169.480	5189.760	---	---
		5200	20.520	5189.240	5209.760	---	---
		5240	20.800	5229.000	5249.800	---	---

Test Graphs

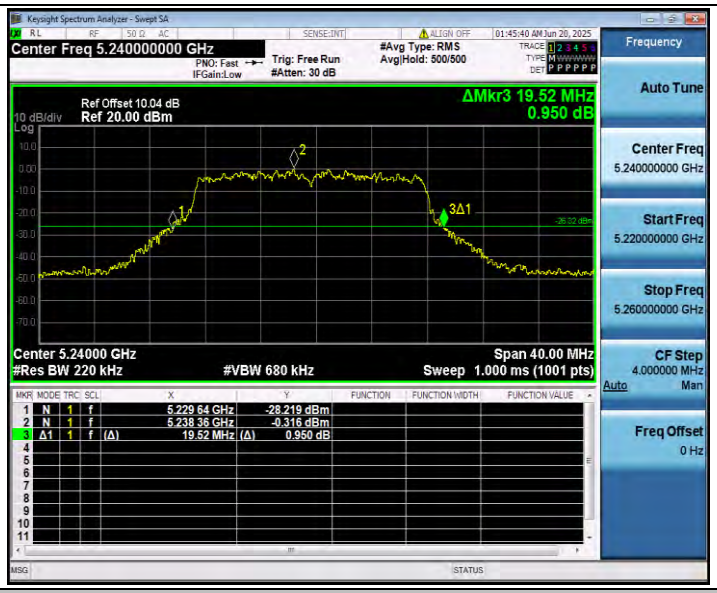
11A_Ant1_5180



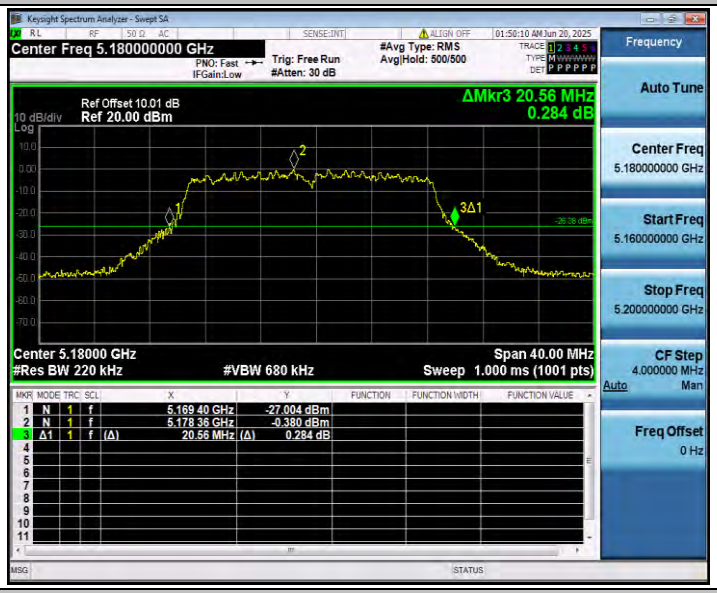
11A_Ant1_5200



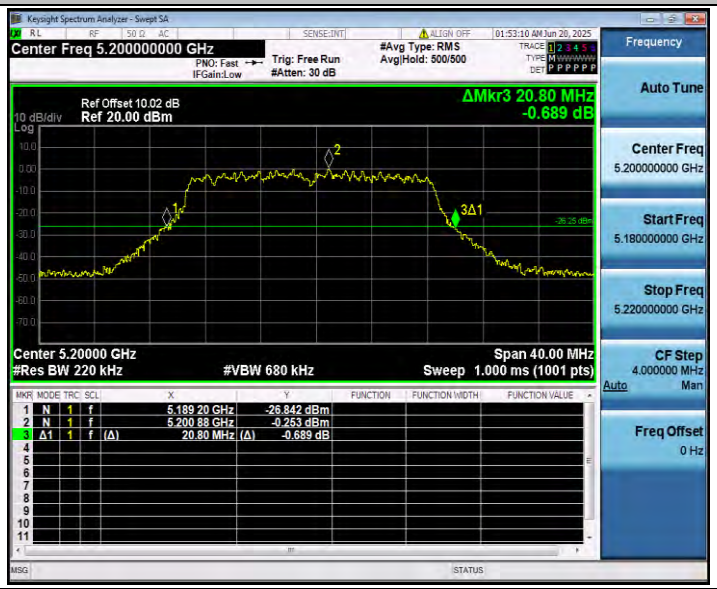
11A_Ant1_5240



11N20SISO_Ant1_5180

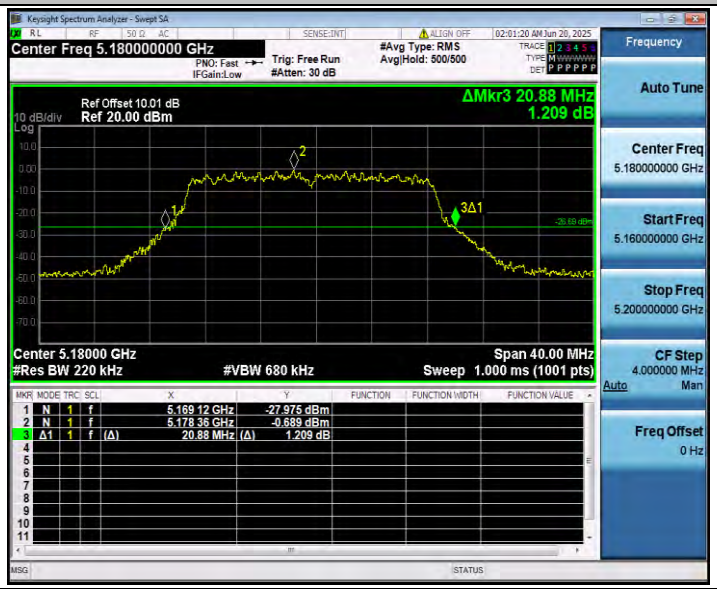


11N20SISO_Ant1_5200

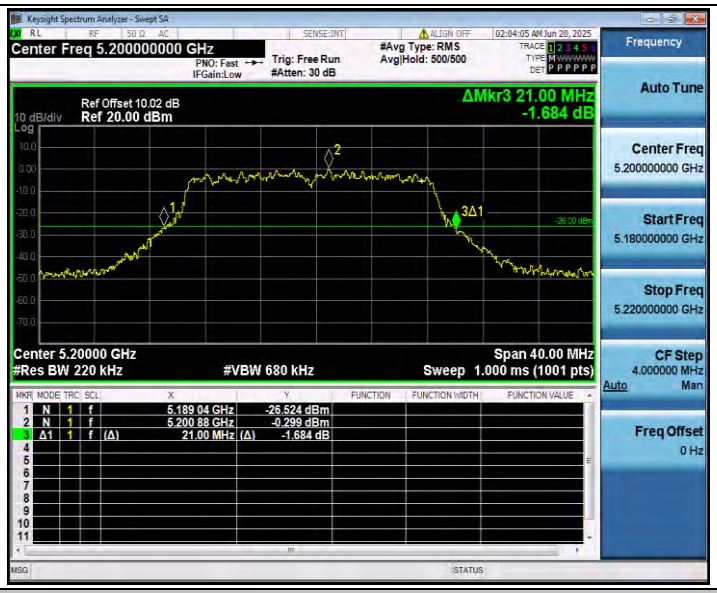


11N20SISO_Ant1_5240

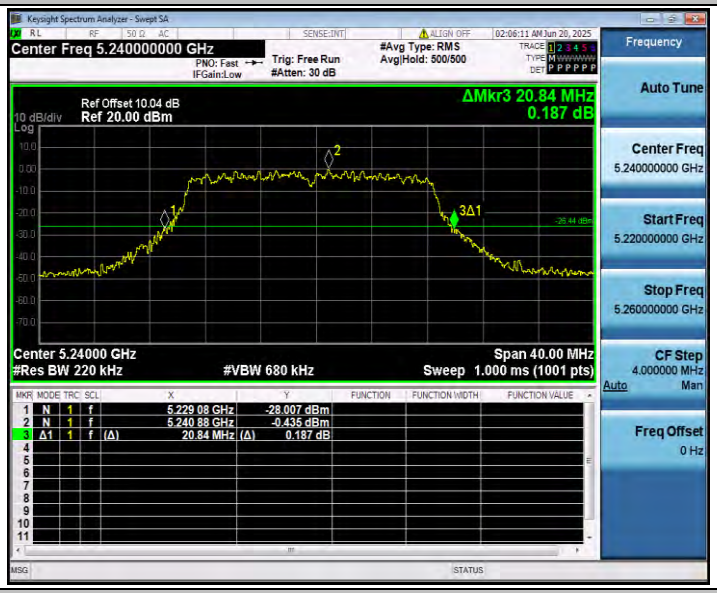
11AC20SISO_Ant1_5180



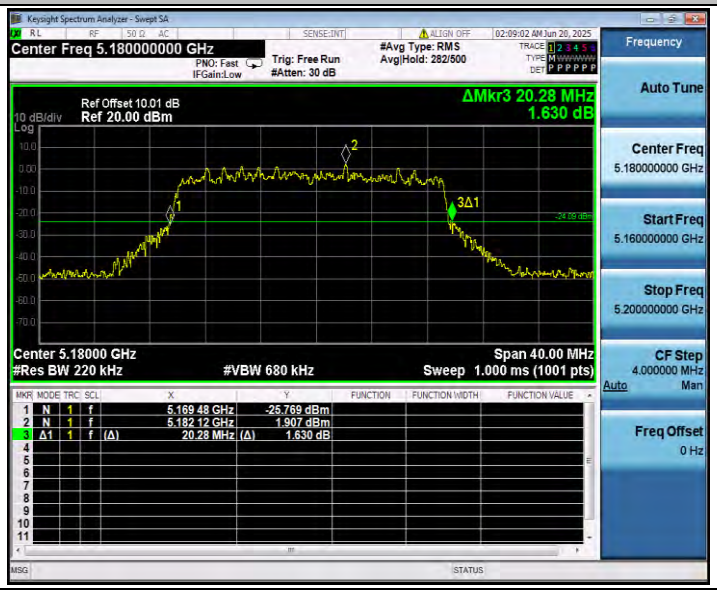
11AC20SISO_Ant1_5200

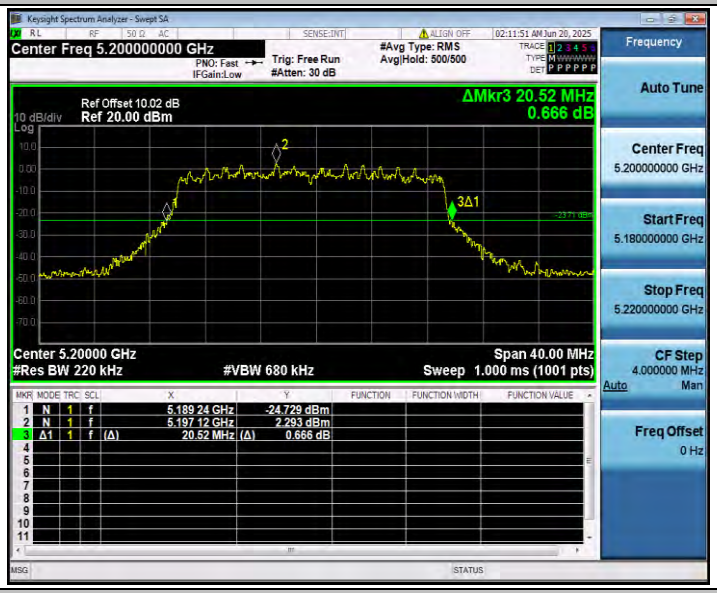


11AC20SISO_Ant1_5240



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200


11AX20SISO_Ant1_5240

Appendix C.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.648	5171.2508	5187.8988	---	---
		5200	16.616	5191.2661	5207.8821	---	---
		5240	16.596	5231.2506	5247.8466	---	---
11N20SISO	Ant1	5180	17.889	5170.6776	5188.5666	---	---
		5200	17.886	5190.6595	5208.5455	---	---
		5240	17.881	5230.6145	5248.4955	---	---
11AC20SISO	Ant1	5180	17.895	5170.6675	5188.5625	---	---
		5200	17.845	5190.6651	5208.5101	---	---
		5240	17.866	5230.6582	5248.5242	---	---
11AX20SISO	Ant1	5180	19.096	5170.0689	5189.1649	---	---
		5200	19.088	5190.0550	5209.1430	---	---
		5240	19.056	5230.0815	5249.1375	---	---

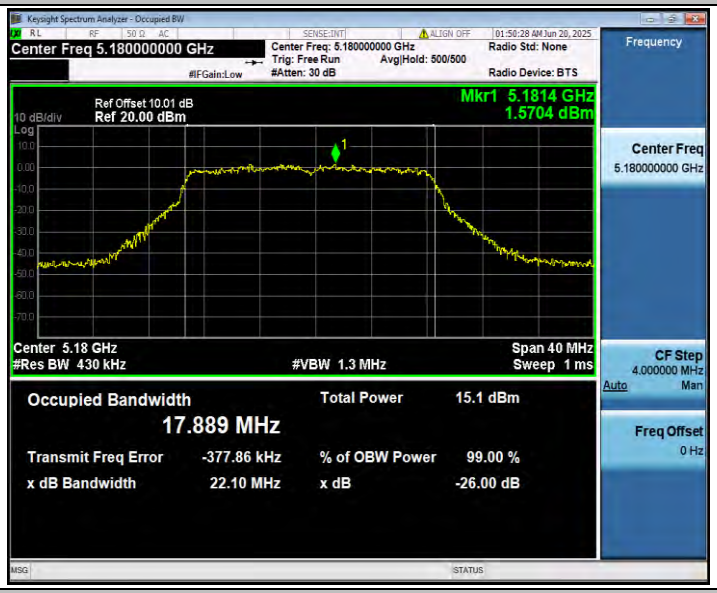
Test Graphs

11A_Ant1_5180

11A_Ant1_5200

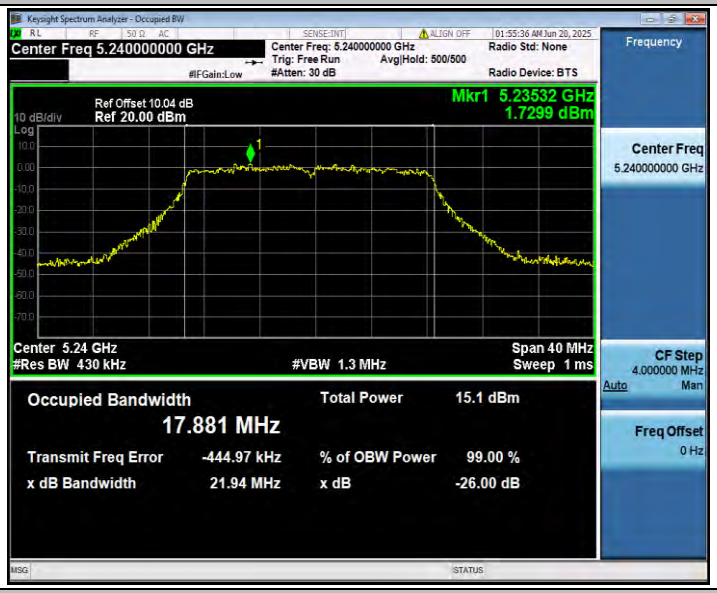
11A_Ant1_5240

11N20SISO_Ant1_5180



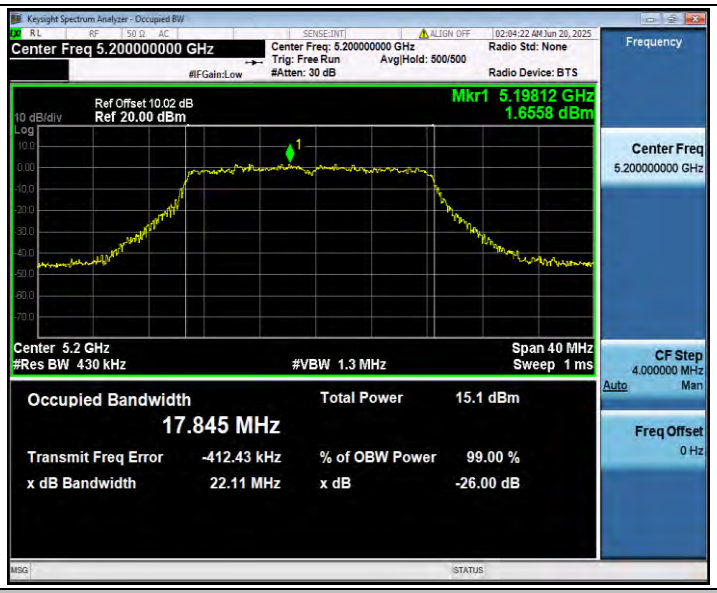
11N20SISO_Ant1_5200

11N20SISO_Ant1_5240

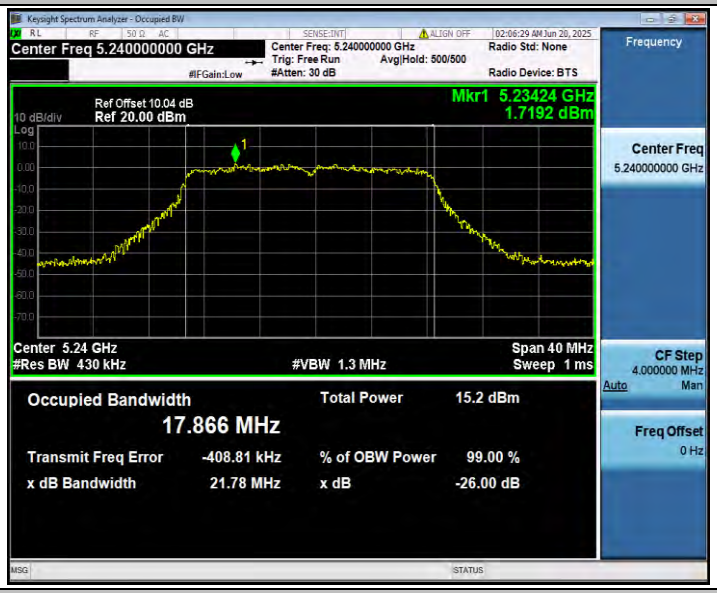


11AC20SISO_Ant1_5180

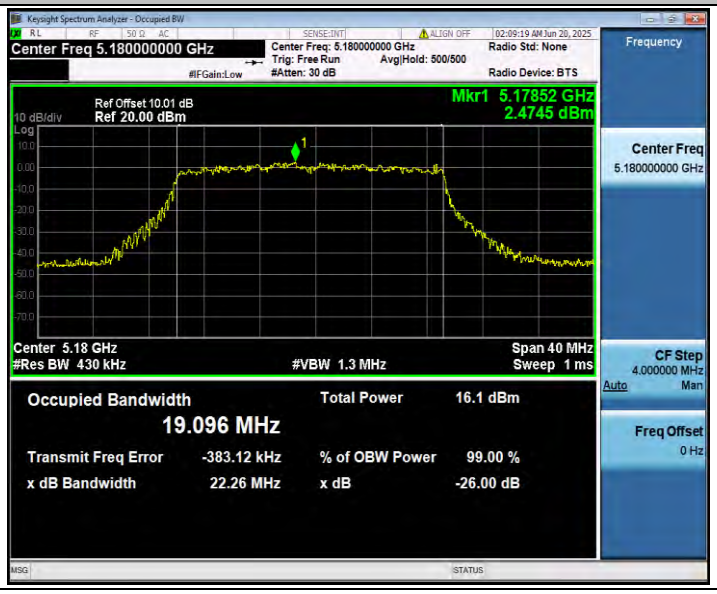
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200

11AX20SISO_Ant1_5240

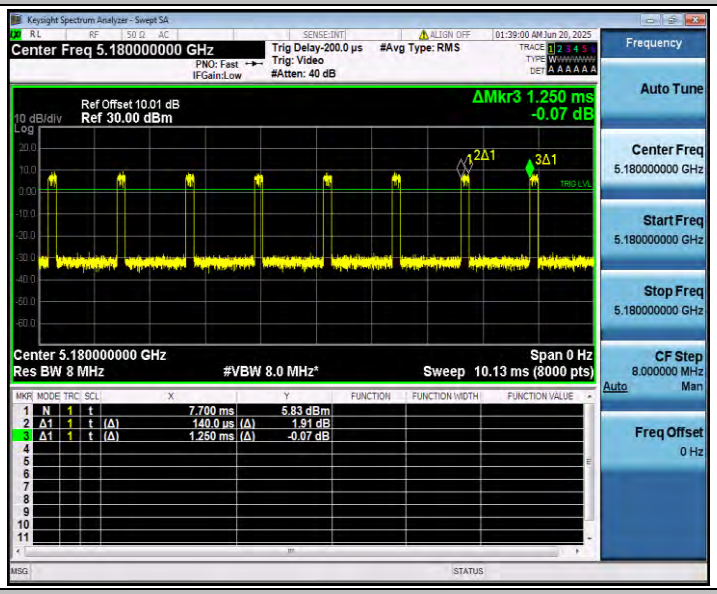
Appendix C.3: Duty Cycle

Test Result

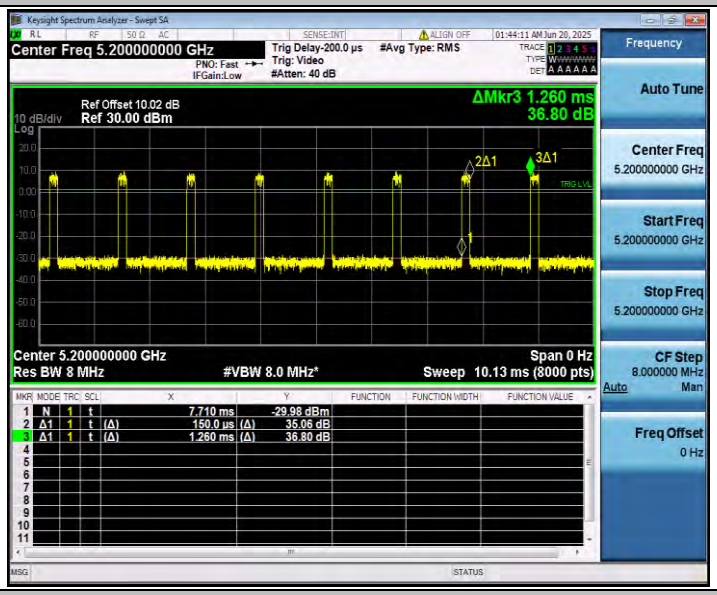
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	0.14	1.25	11.20	9.51	7.14
		5200	0.15	1.26	11.90	9.24	6.67
		5240	0.15	1.25	12.00	9.21	6.67
11N20SISO	Ant1	5180	0.17	1.28	13.28	8.77	5.88
		5200	0.17	1.28	13.28	8.77	5.88
		5240	0.16	1.27	12.60	9.00	6.25
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
11AX20SISO	Ant1	5180	0.27	2.67	10.11	9.95	3.70
		5200	0.26	2.66	9.77	10.10	3.85
		5240	0.27	2.67	10.11	9.95	3.70

Test Graphs

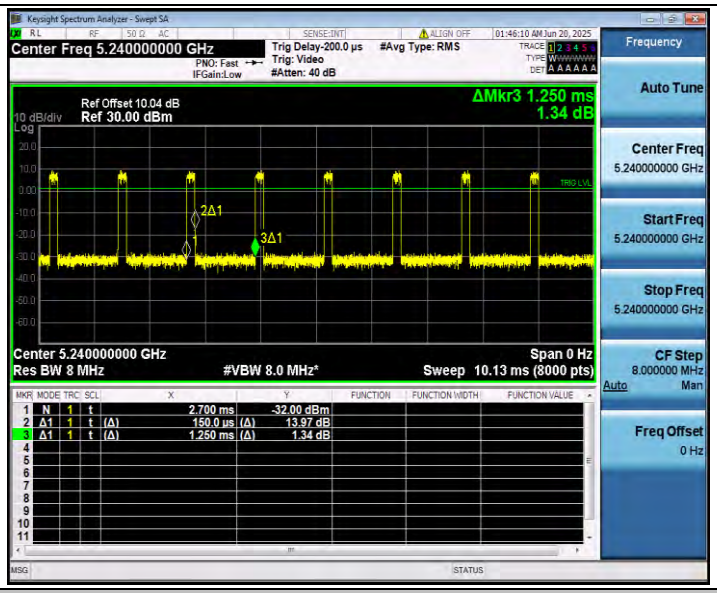
11A_Ant1_5180



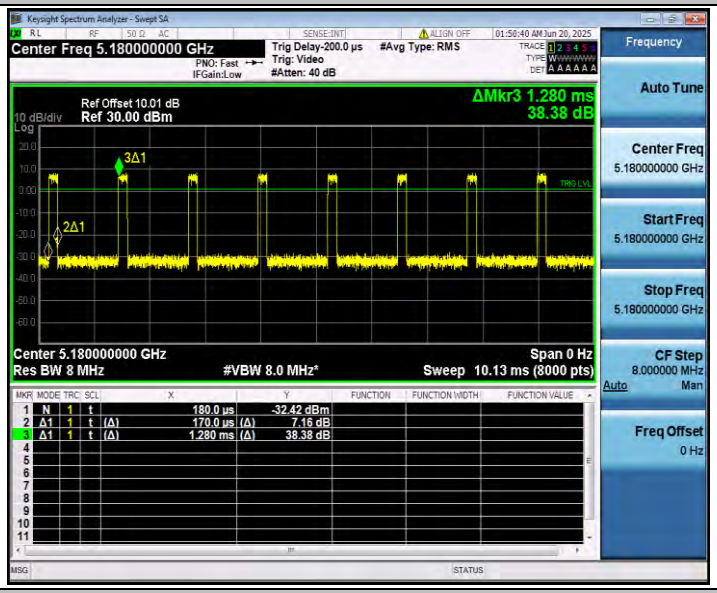
11A_Ant1_5200



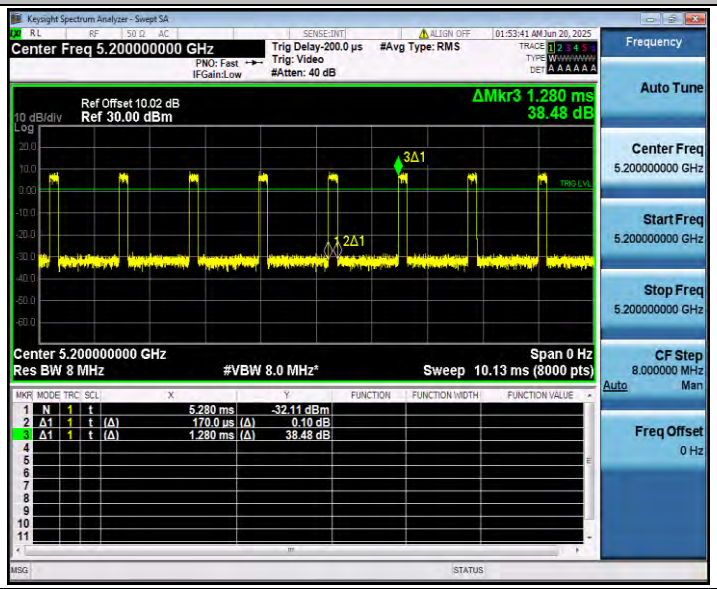
11A_Ant1_5240



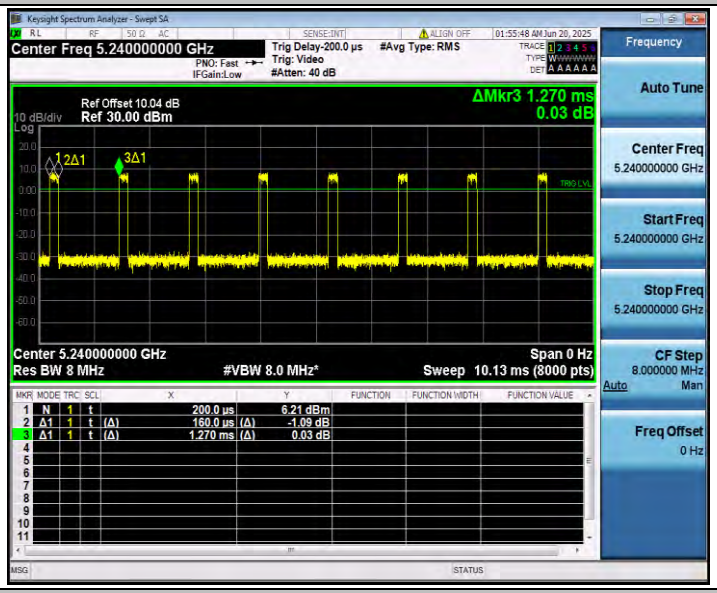
11N20SISO_Ant1_5180



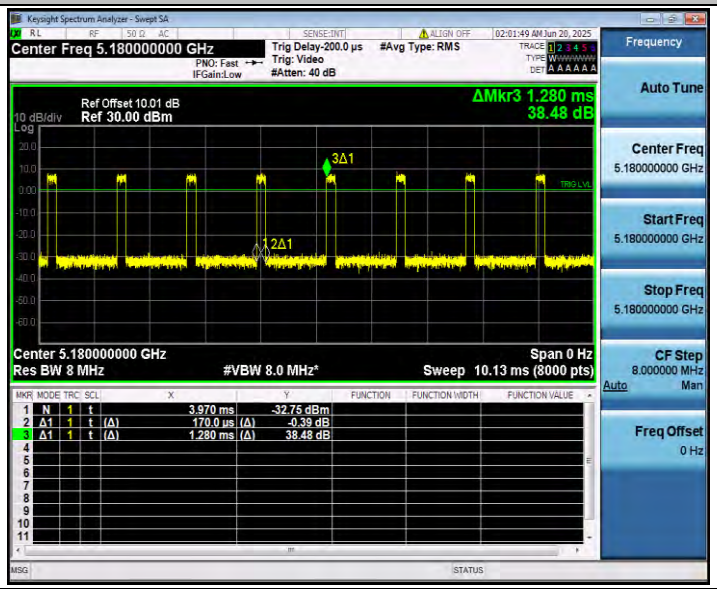
11N20SISO_Ant1_5200



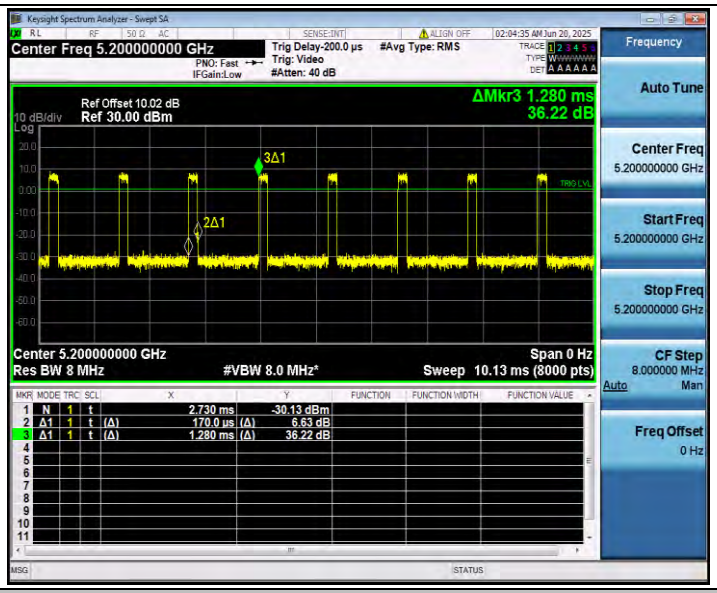
11N20SISO_Ant1_5240



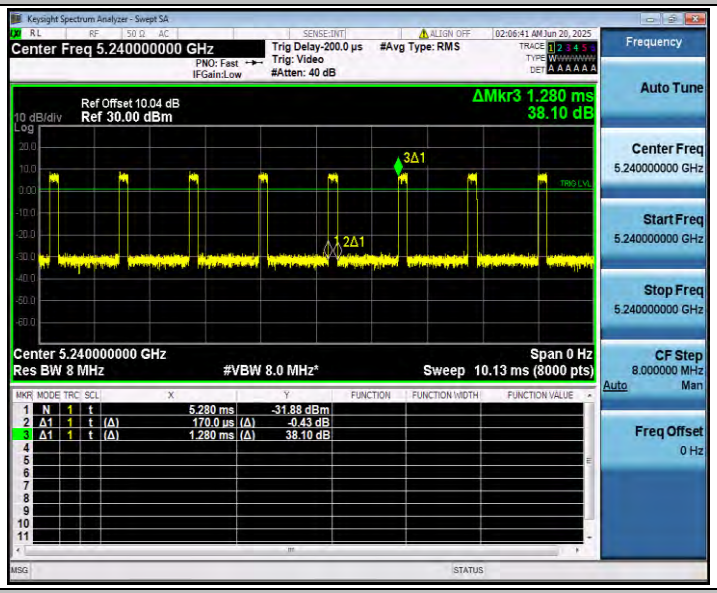
11AC20SISO_Ant1_5180



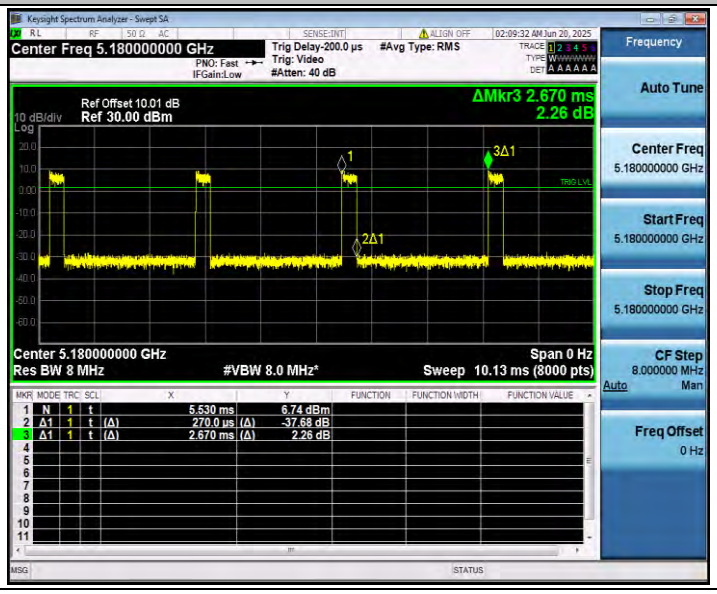
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AX20SISO_Ant1_5180



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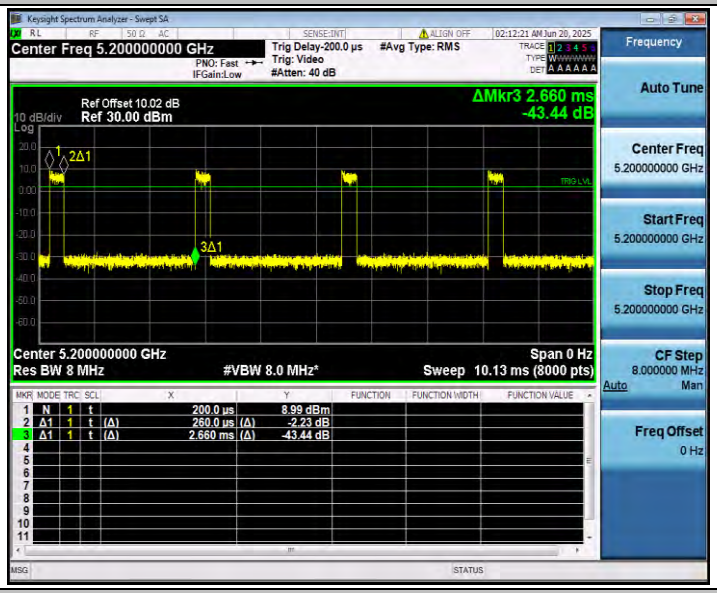
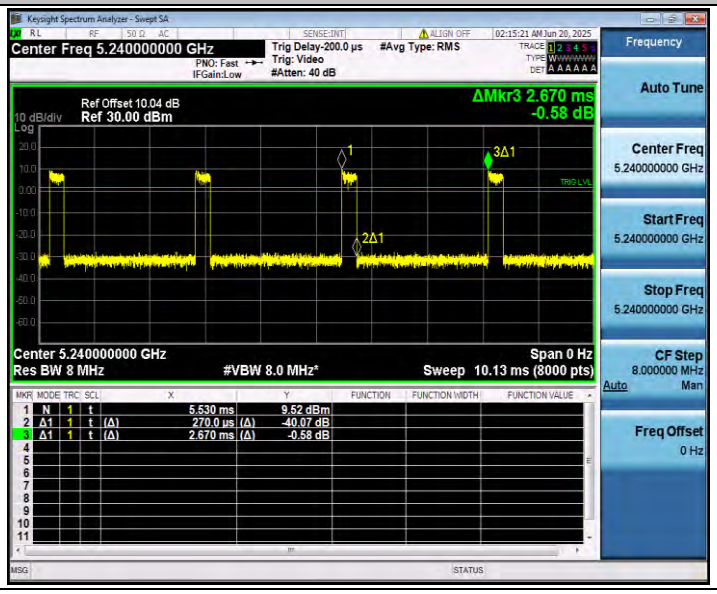


11AX20SISO_Ant1_5240


Appendix C.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	0.04	11.20	9.51	9.55	≤23.98	PASS
		5200	0.42	11.90	9.24	9.66	≤23.98	PASS
		5240	0.79	12.00	9.21	10.00	≤23.98	PASS
11N20SISO	Ant1	5180	0.51	13.28	8.77	9.28	≤23.98	PASS
		5200	0.94	13.28	8.77	9.71	≤23.98	PASS
		5240	0.48	12.60	9.00	9.48	≤23.98	PASS
11AC20SISO	Ant1	5180	0.50	13.28	8.77	9.27	≤23.98	PASS
		5200	0.68	13.28	8.77	9.45	≤23.98	PASS
		5240	0.44	13.28	8.77	9.21	≤23.98	PASS
11AX20SISO	Ant1	5180	-0.37	10.11	9.95	9.58	≤23.98	PASS
		5200	-0.27	9.77	10.10	9.83	≤23.98	PASS
		5240	0.15	10.11	9.95	10.10	≤23.98	PASS

Appendix C.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.33	≤11.00	PASS
		5200	-0.45	≤11.00	PASS
		5240	-0.37	≤11.00	PASS
11N20SISO	Ant1	5180	-0.87	≤11.00	PASS
		5200	-0.70	≤11.00	PASS
		5240	-0.41	≤11.00	PASS
11AC20SISO	Ant1	5180	-1.04	≤11.00	PASS
		5200	-0.73	≤11.00	PASS
		5240	-0.65	≤11.00	PASS
11AX20SISO	Ant1	5180	2.35	≤11.00	PASS
		5200	2.82	≤11.00	PASS
		5240	2.68	≤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.

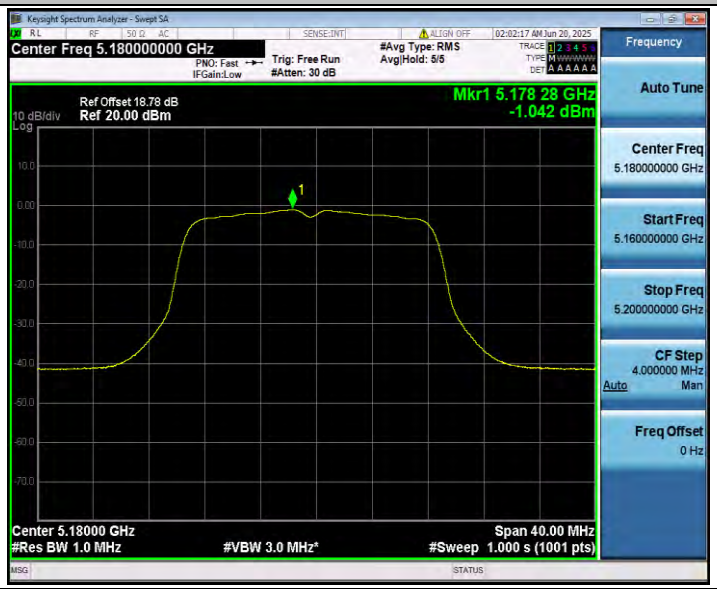
Test Graphs

11A_Ant1_5180
11A_Ant1_5200
11A_Ant1_5240

11N20SISO_Ant1_5180

11N20SISO_Ant1_5200

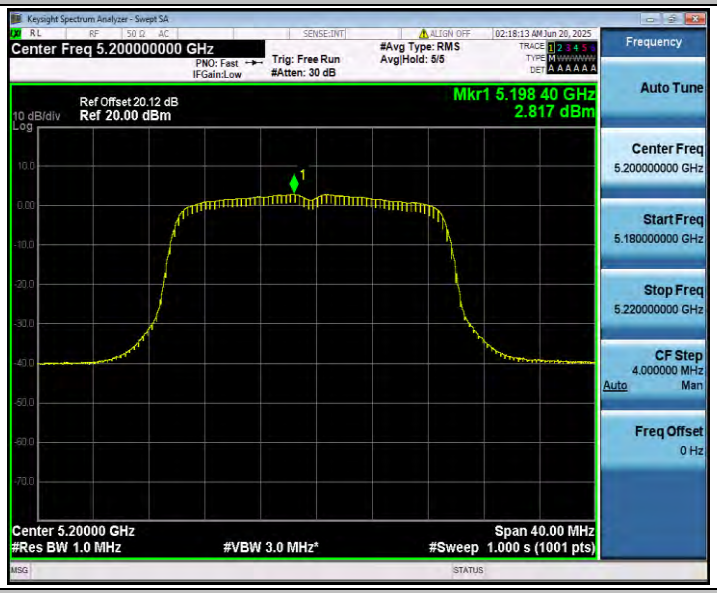
11N20SISO_Ant1_5240

11AC20SISO_Ant1_5180


11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240

11AX20SISO_Ant1_5180

11AX20SISO_Ant1_5200


11AX20SISO_Ant1_5240

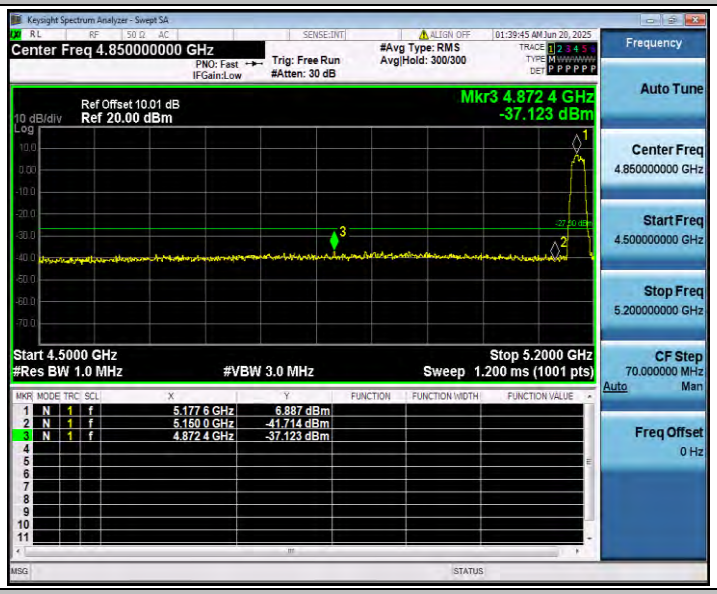
Appendix C.6: Band edge measurements

Test Result B1

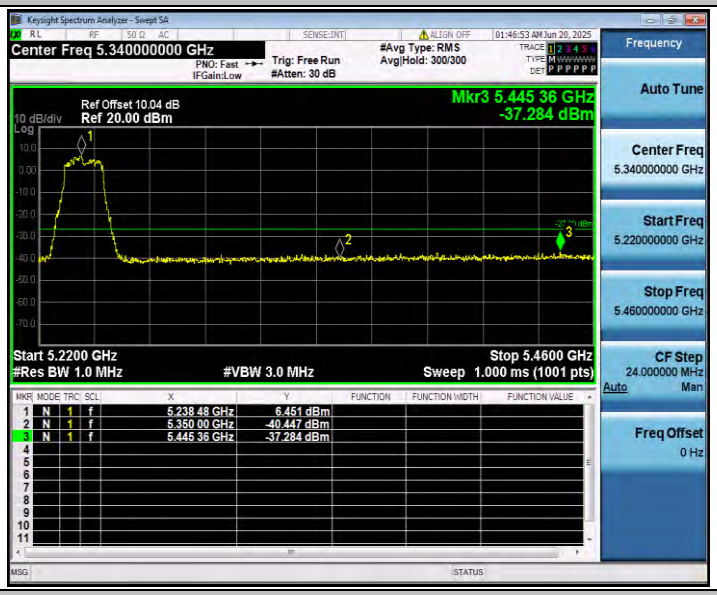
TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.12	≤-27	PASS
		High	5240	-37.28	≤-27	PASS
11N20SISO	Ant1	Low	5180	-36.93	≤-27	PASS
		High	5240	-37.37	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-36.49	≤-27	PASS
		High	5240	-37.58	≤-27	PASS
11AX20SISO	Ant1	Low	5180	-37.26	≤-27	PASS
		High	5240	-37.55	≤-27	PASS

Test Graphs B1

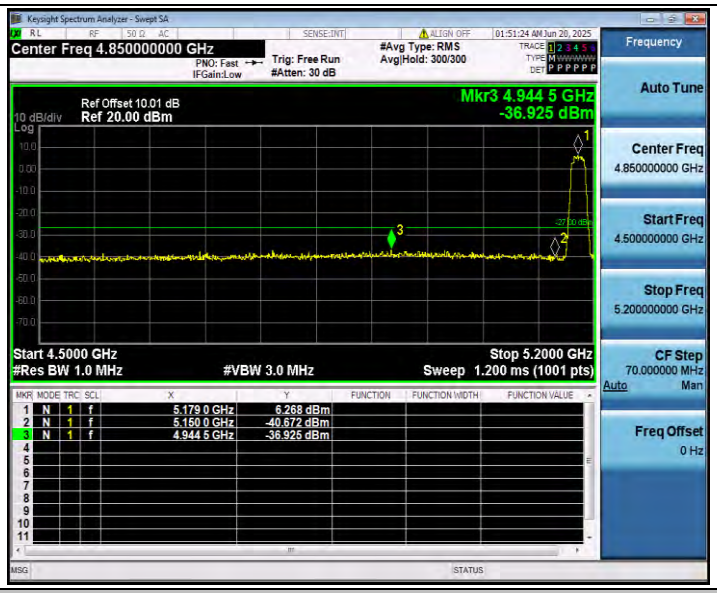
11A_Ant1_Low_5180



11A_Ant1_High_5240



11N20SISO_Ant1_Low_5180



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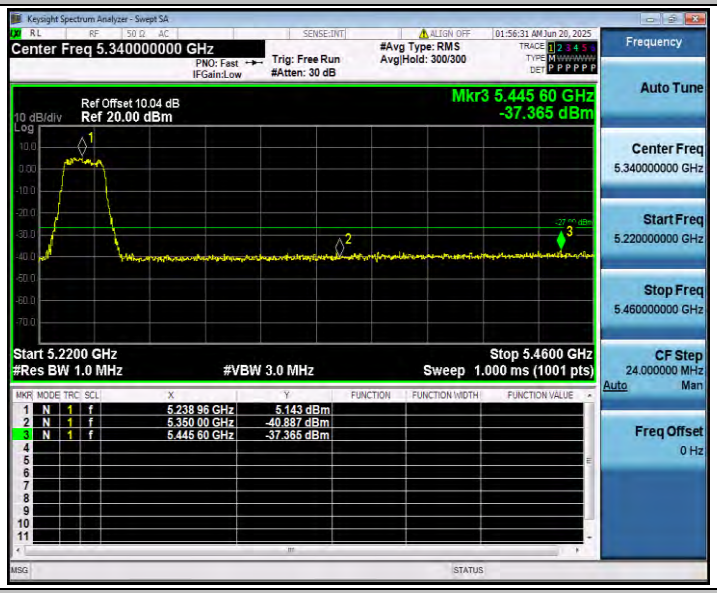
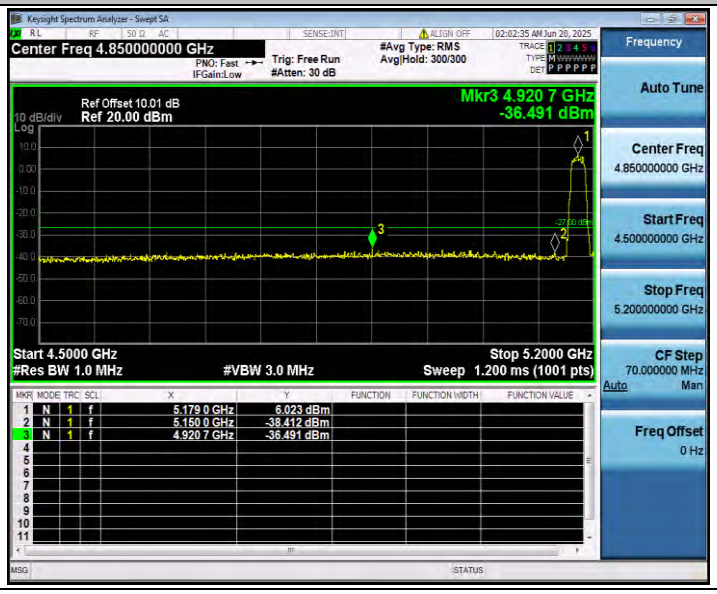
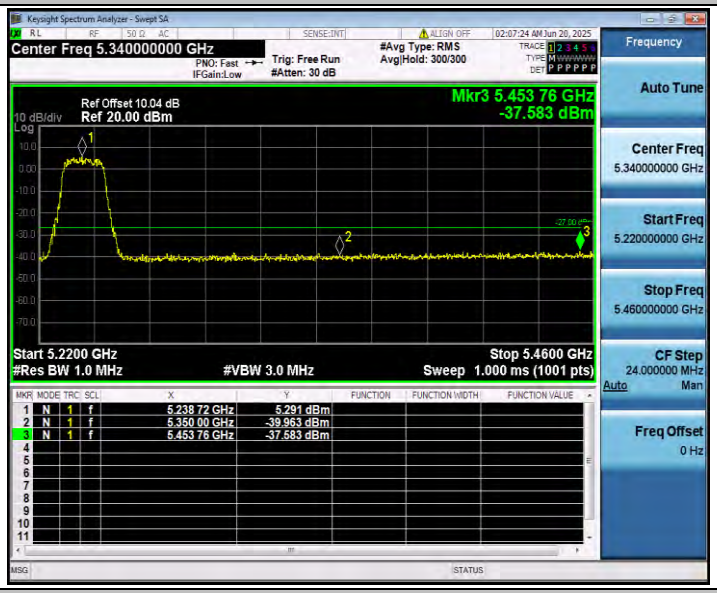


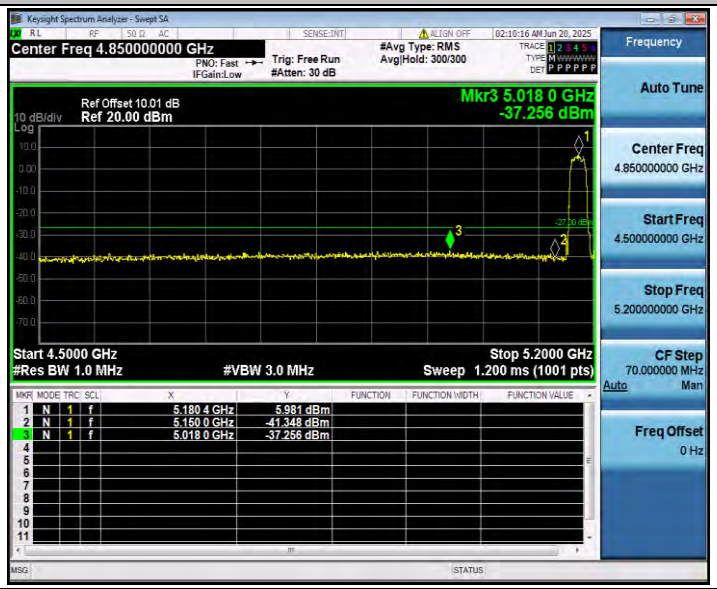
11AC20SISO_Ant1_Low_5180



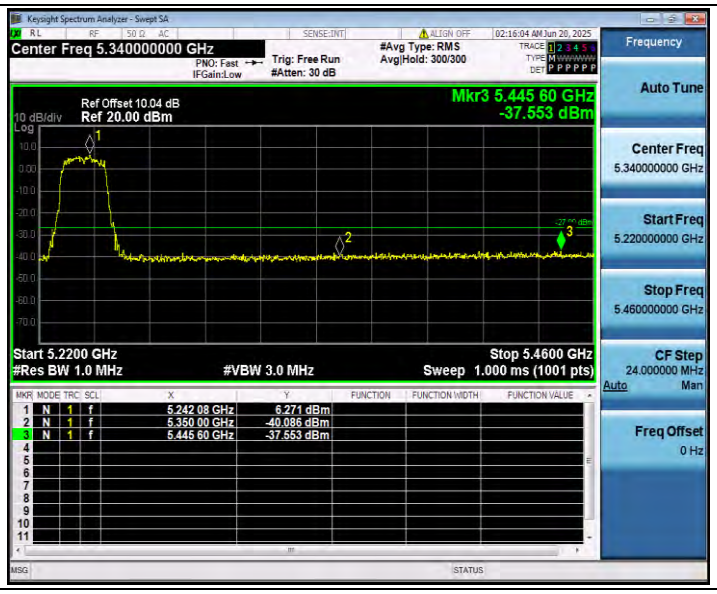
11AC20SISO_Ant1_High_5240



11AX20SISO_Ant1_Low_5180



11AX20SISO_Ant1_High_5240


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.340000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 300/300
02:16:04 AM Jun 20, 2025
Frequency
Auto Tune
Center Freq
5.340000000 GHz
Start Freq
5.220000000 GHz
Stop Freq
5.460000000 GHz
CF Step
24.000000 MHz
Auto
Man
Freq Offset
0 Hz
Ref Offset 10.04 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr3 5.445 60 GHz
-37.553 dBm
Start 5.2200 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.4600 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.242 08 GHz 6.271 dBm
2 N 1 f 5.350 00 GHz -40.086 dBm
3 N 1 f 5.445 60 GHz -37.553 dBm

Appendix C.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	3183.55	-46.69	≤-27	PASS
			5360~27000	24256.77	-36.98	≤-27	PASS
		5200	30~5140	3332.42	-46.33	≤-27	PASS
			5360~27000	24217.82	-36.5	≤-27	PASS
		5240	30~5140	3387.61	-46.43	≤-27	PASS
			5360~27000	24270.47	-36.36	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	3183.89	-46.55	≤-27	PASS
			5360~27000	24774.69	-37.01	≤-27	PASS
		5200	30~5140	2800.98	-46.12	≤-27	PASS
			5360~27000	26609.76	-36.9	≤-27	PASS
		5240	30~5140	2878.65	-46.46	≤-27	PASS
			5360~27000	24243.06	-36.85	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	2658.58	-46.15	≤-27	PASS
			5360~27000	23504.42	-36.82	≤-27	PASS
		5200	30~5140	1747.81	-46.26	≤-27	PASS
			5360~27000	24171.65	-36.95	≤-27	PASS
		5240	30~5140	4936.28	-46.55	≤-27	PASS
			5360~27000	24251.72	-37.14	≤-27	PASS
11AX20SISO	Ant1	5180	30~5140	3413.67	-46.6	≤-27	PASS
			5360~27000	25569.6	-36.85	≤-27	PASS
		5200	30~5140	2660.97	-46.64	≤-27	PASS
			5360~27000	24321.69	-37.21	≤-27	PASS
		5240	30~5140	3281.66	-46.33	≤-27	PASS
			5360~27000	24789.11	-36.37	≤-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

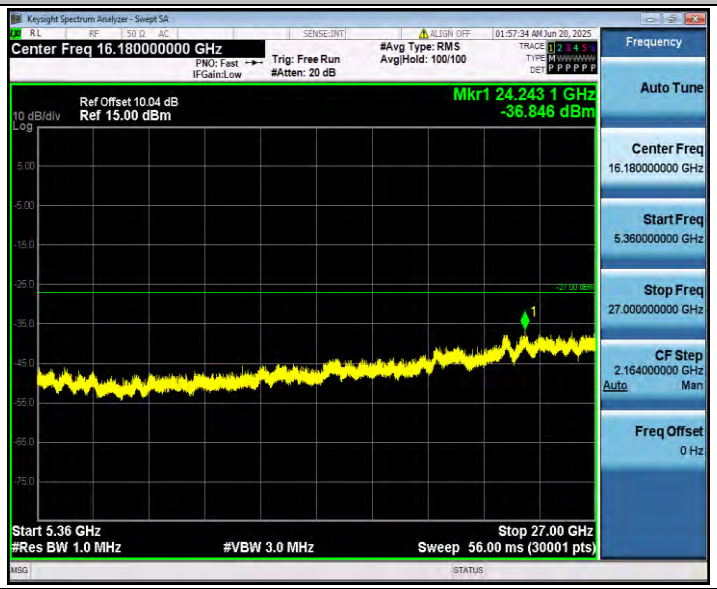
11N20SISO_Ant1_5180_5360~27000

11N20SISO_Ant1_5200_30~5140

11N20SISO_Ant1_5200_5360~27000

11N20SISO_Ant1_5240_30~5140

11N20SISO_Ant1_5240_5360~27000



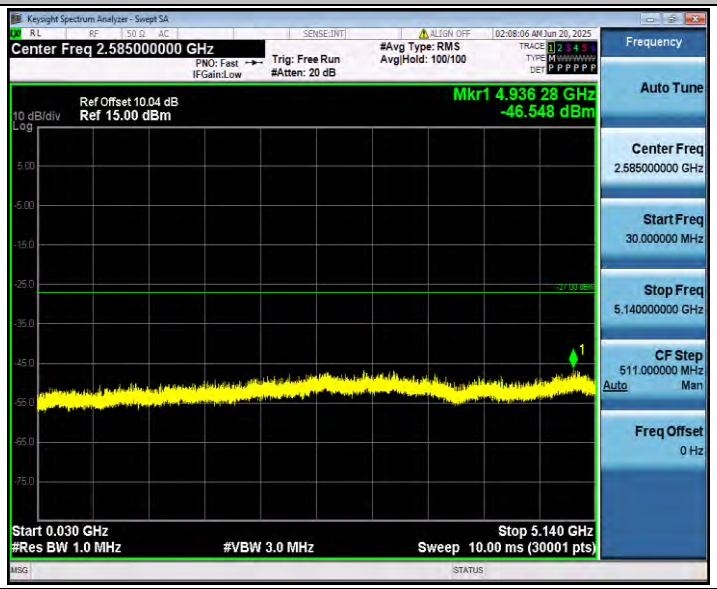
11AC20SISO_Ant1_5180_30~5140

11AC20SISO_Ant1_5180_5360~27000

11AC20SISO_Ant1_5200_30~5140

11AC20SISO_Ant1_5200_5360~27000

11AC20SISO_Ant1_5240_30~5140



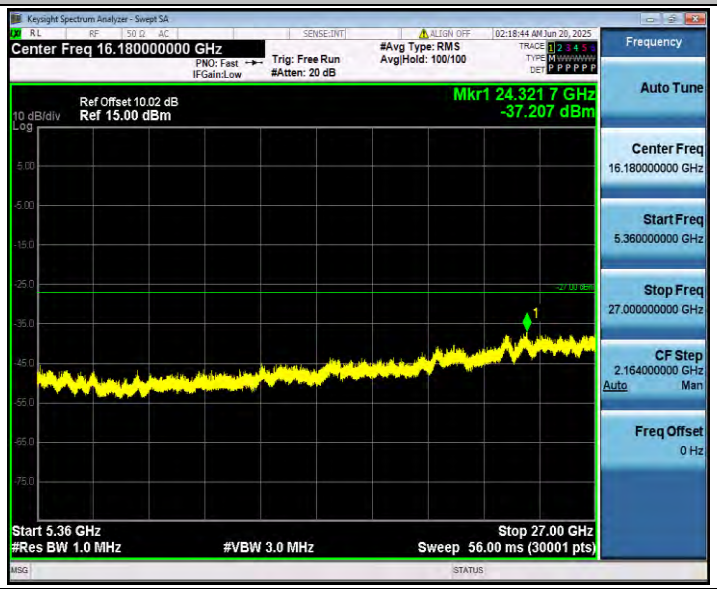
11AC20SISO_Ant1_5240_5360~27000

11AX20SISO_Ant1_5180_30~5140

11AX20SISO_Ant1_5180_5360~27000

11AX20SISO_Ant1_5200_30~5140

11AX20SISO_Ant1_5200_5360~27000



11AX20SISO_Ant1_5240_30~5140

11AX20SISO_Ant1_5240_5360~27000

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	-46.54	≤-41.20	48.66	≤54	PASS
				AV	4908.800	-43.57	≤-41.20	51.63	≤54	PASS
				AV	5150.000	-45.51	≤-41.20	49.69	≤54	PASS
				Peak	4500.000	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	4936.800	-35.16	≤-21.20	60.04	≤74	PASS
				Peak	5150.000	-39.37	≤-21.20	55.83	≤74	PASS
		High	5240	AV	5350.000	-45.32	≤-41.20	49.88	≤54	PASS
				AV	5435.760	-43.72	≤-41.20	51.48	≤54	PASS
				AV	5460.000	-44.55	≤-41.20	50.65	≤54	PASS
				Peak	5350.000	-38.17	≤-21.20	57.03	≤74	PASS
				Peak	5425.920	-35.12	≤-21.20	60.08	≤74	PASS
				Peak	5460.000	-36.96	≤-21.20	58.24	≤74	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-46.2	≤-41.20	49.00	≤54	PASS
				AV	4965.500	-43.79	≤-41.20	51.41	≤54	PASS
				AV	5150.000	-45.39	≤-41.20	49.81	≤54	PASS
				Peak	4500.000	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	4973.200	-35.02	≤-21.20	60.18	≤74	PASS
				Peak	5150.000	-38.17	≤-21.20	57.03	≤74	PASS
		High	5240	AV	5350.000	-45.62	≤-41.20	49.58	≤54	PASS
				AV	5459.040	-43.81	≤-41.20	51.39	≤54	PASS
				AV	5460.000	-44.15	≤-41.20	51.05	≤54	PASS
				Peak	5350.000	-38.22	≤-21.20	56.98	≤74	PASS
				Peak	5450.880	-34.69	≤-21.20	60.51	≤74	PASS
				Peak	5460.000	-37.32	≤-21.20	57.88	≤74	PASS
11AC20SISO	Ant1	Low	5180	AV	4500.000	-46.66	≤-41.20	48.54	≤54	PASS
				AV	4924.200	-43.61	≤-41.20	51.59	≤54	PASS
				AV	5150.000	-45.39	≤-41.20	49.81	≤54	PASS
				Peak	4500.000	-39.39	≤-21.20	55.81	≤74	PASS
				Peak	4972.500	-35.19	≤-21.20	60.01	≤74	PASS
				Peak	5150.000	-38.65	≤-21.20	56.55	≤74	PASS
		High	5240	AV	5350.000	-45.29	≤-41.20	49.91	≤54	PASS
				AV	5457.840	-43.94	≤-41.20	51.26	≤54	PASS
				AV	5460.000	-44.2	≤-41.20	51.00	≤54	PASS
				Peak	5350.000	-38.29	≤-21.20	56.91	≤74	PASS
				Peak	5421.840	-35.29	≤-21.20	59.91	≤74	PASS

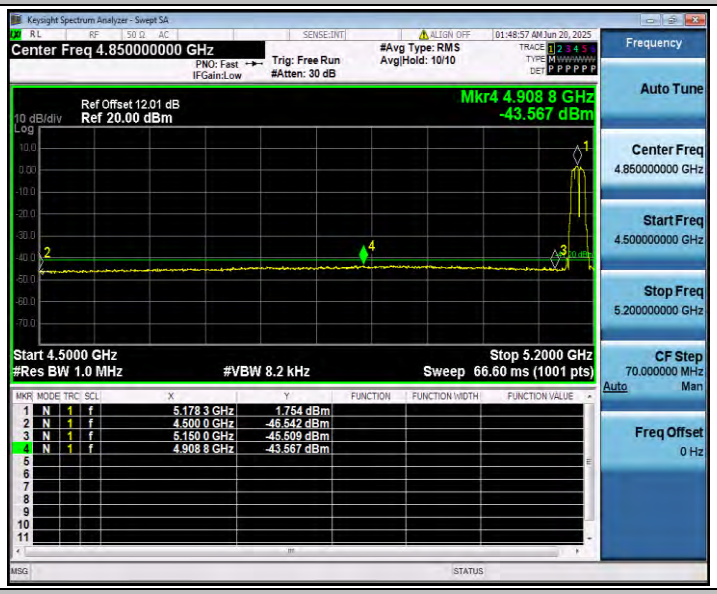
				Peak	5460.000	-37.66	≤-21.20	57.54	≤74	PASS
11AX20SISO	Ant1	Low	5180	AV	4500.000	-46.83	≤-41.20	48.37	≤54	PASS
				AV	4936.800	-44.06	≤-41.20	51.14	≤54	PASS
				AV	5150.000	-45.46	≤-41.20	49.74	≤54	PASS
				Peak	4500.000	-38.88	≤-21.20	56.32	≤74	PASS
				Peak	4917.200	-34.61	≤-21.20	60.59	≤74	PASS
				Peak	5150.000	-38.35	≤-21.20	56.85	≤74	PASS
		High	5240	AV	5350.000	-45.89	≤-41.20	49.31	≤54	PASS
				AV	5438.640	-44.25	≤-41.20	50.95	≤54	PASS
				AV	5460.000	-45.06	≤-41.20	50.14	≤54	PASS
				Peak	5350.000	-37.76	≤-21.20	57.44	≤74	PASS
				Peak	5460.000	-34.13	≤-21.20	61.07	≤74	PASS

Note：

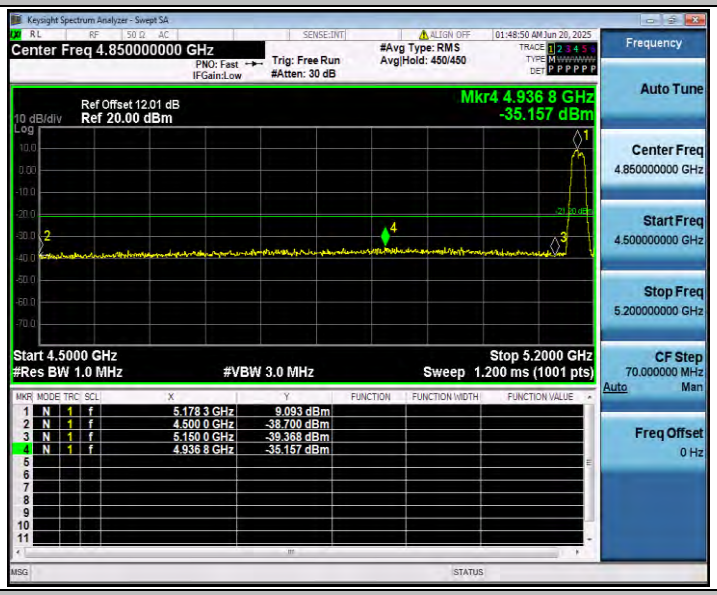
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm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

Test Graphs

11A_Ant1_Low_5180_AV



11A_Ant1_Low_5180_Peak



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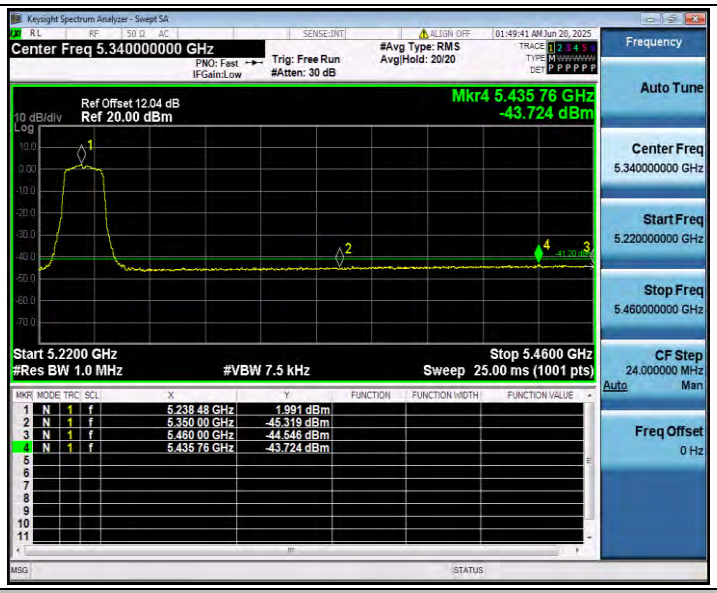
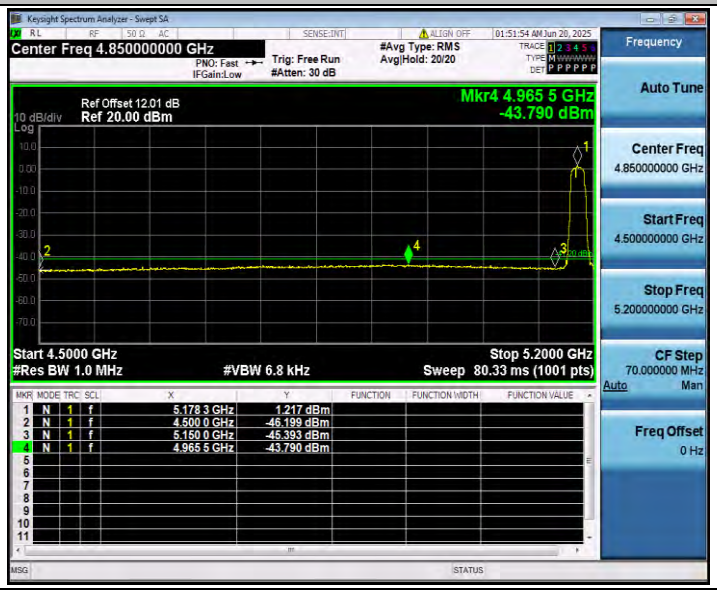


11A_Ant1_High_5240_Peak

11N20SISO_Ant1_Low_5180_AV



11N20SISO_Ant1_Low_5180_Peak

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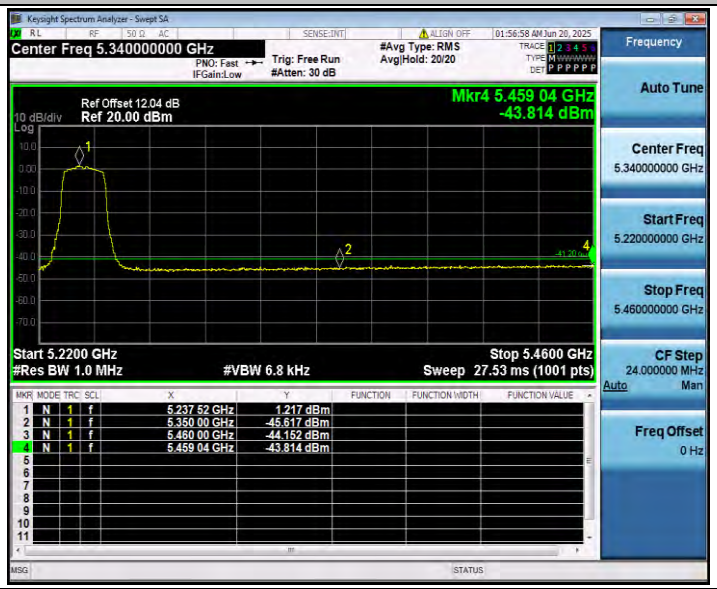
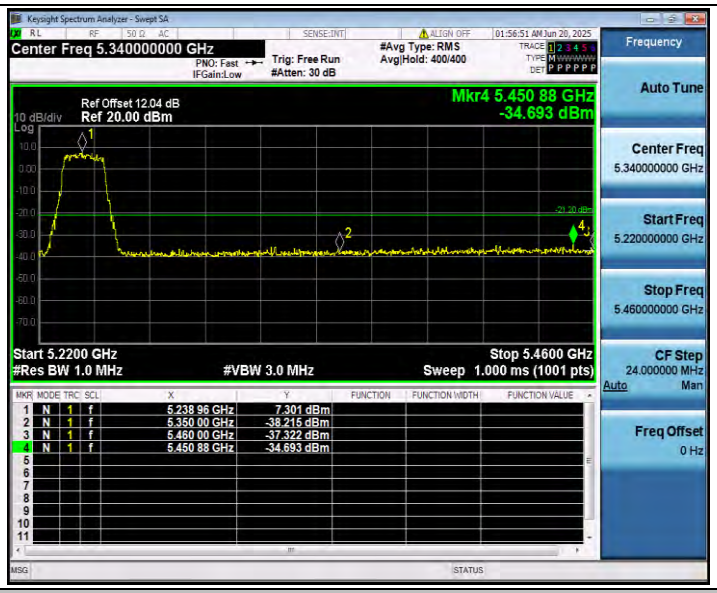
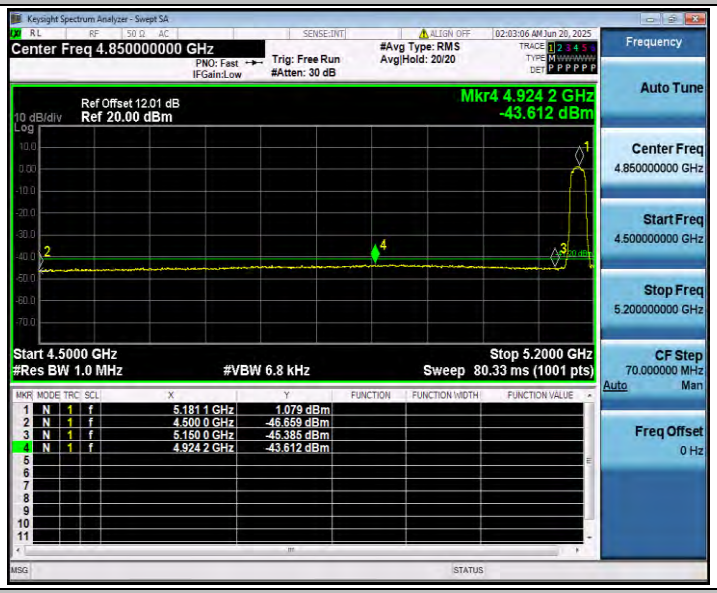


11N20SISO_Ant1_High_5240_Peak



11AC20SISO_Ant1_Low_5180_AV



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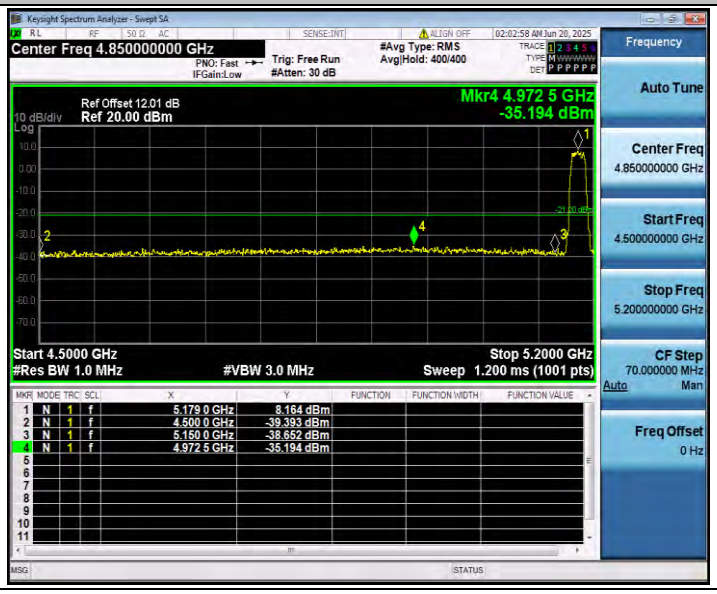

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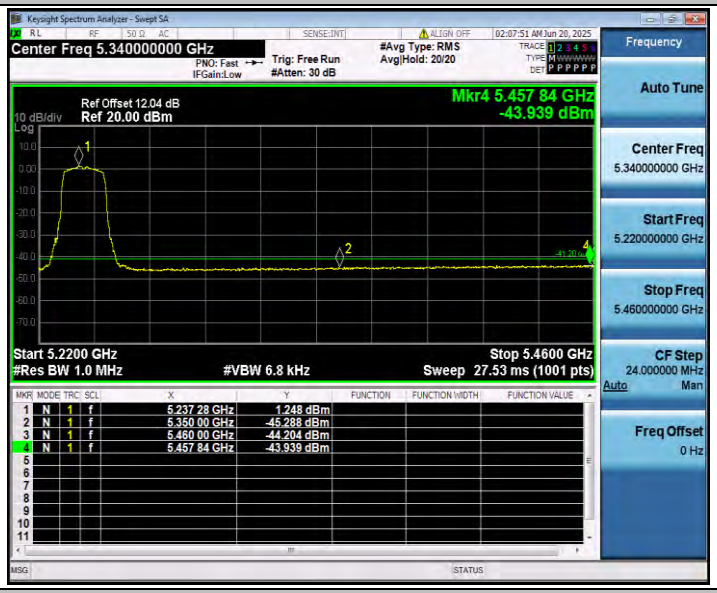

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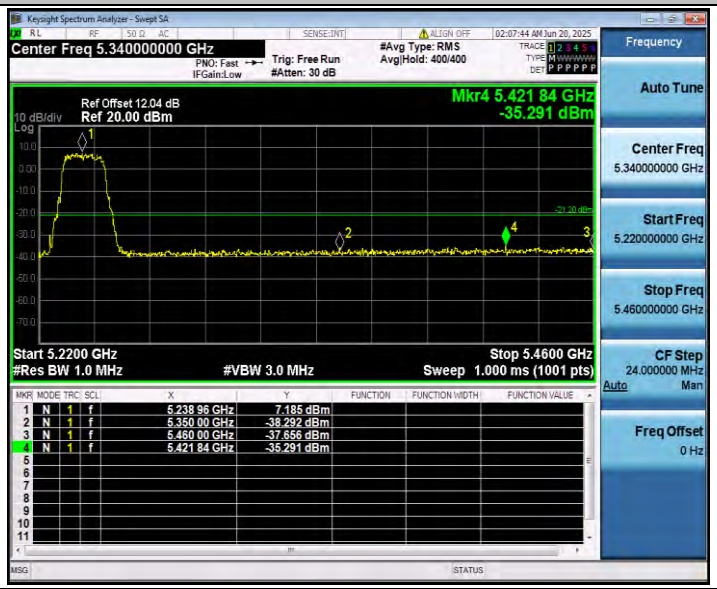
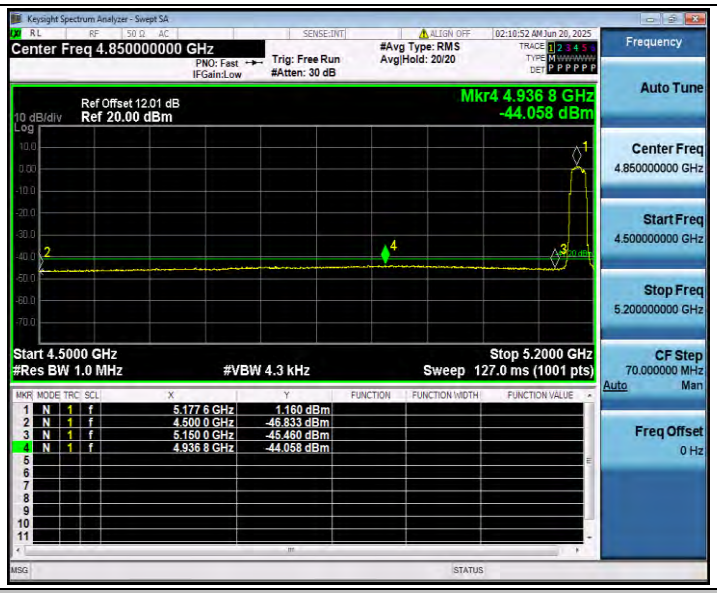


11AX20SISO_Ant1_Low_5180_AV



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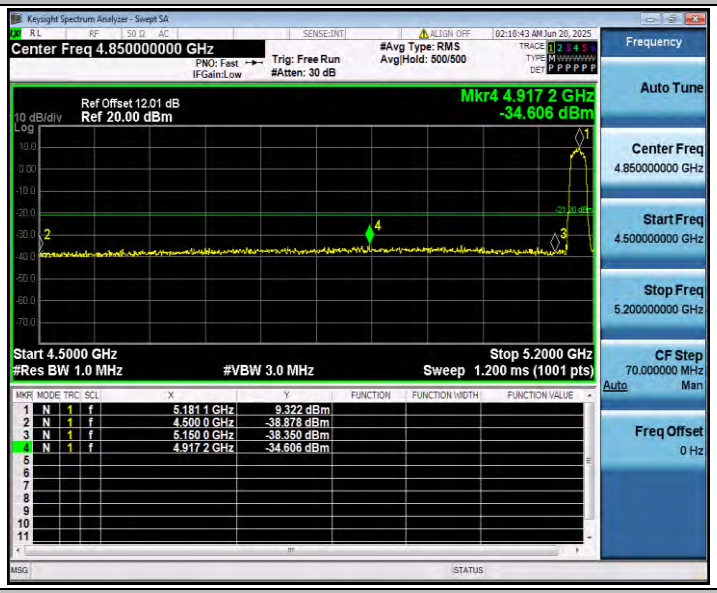

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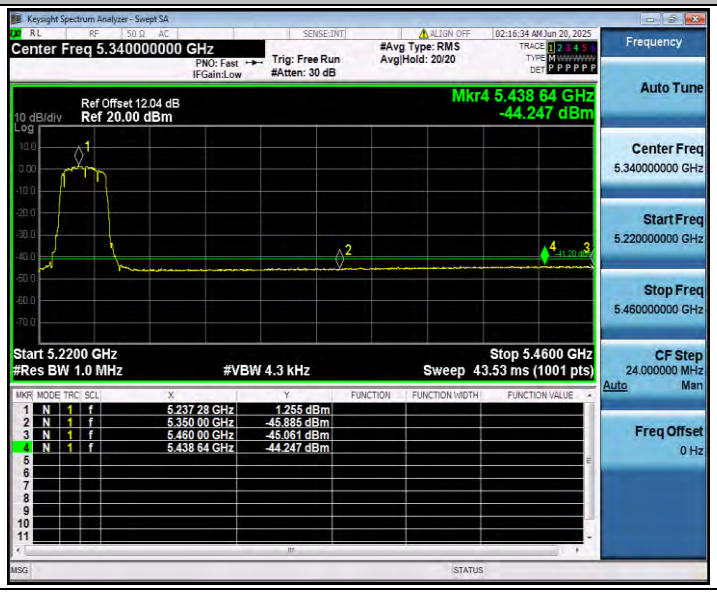
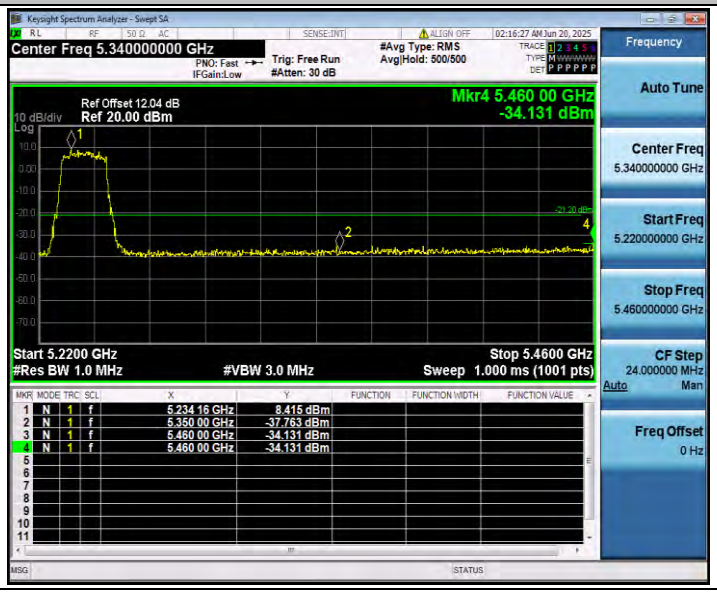
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