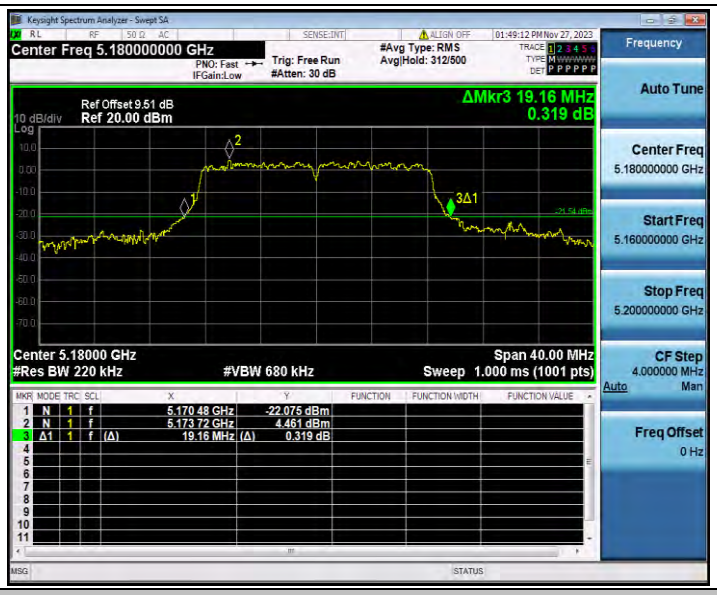
Case No. : GTS20231023002-1-10	
Ambient Condition: 23 ℃, 49 %RH, Atmos100.1Kpa,	
Test Date: 2023.11.25	**Test Engineer:** Evan ouyang

Appendix C.1: Emission Bandwidth

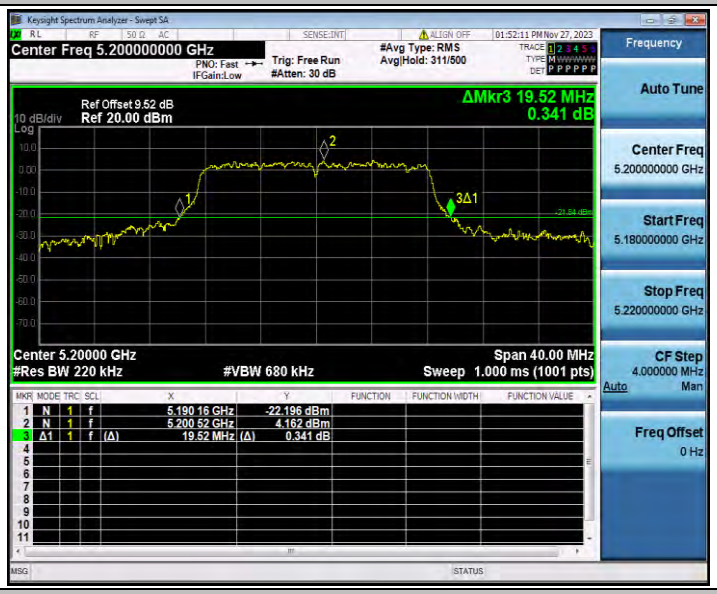
Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.160	5170.480	5189.640	---	---
		5200	19.520	5190.160	5209.680	---	---
		5240	20.400	5230.040	5250.440	---	---
11N20SISO	Ant1	5180	20.280	5169.880	5190.160	---	---
		5200	20.640	5189.880	5210.520	---	---
		5240	20.120	5229.960	5250.080	---	---
11AC20SISO	Ant1	5180	25.880	5169.160	5195.040	---	---
		5200	27.840	5188.680	5216.520	---	---
		5240	29.160	5227.080	5256.240	---	---

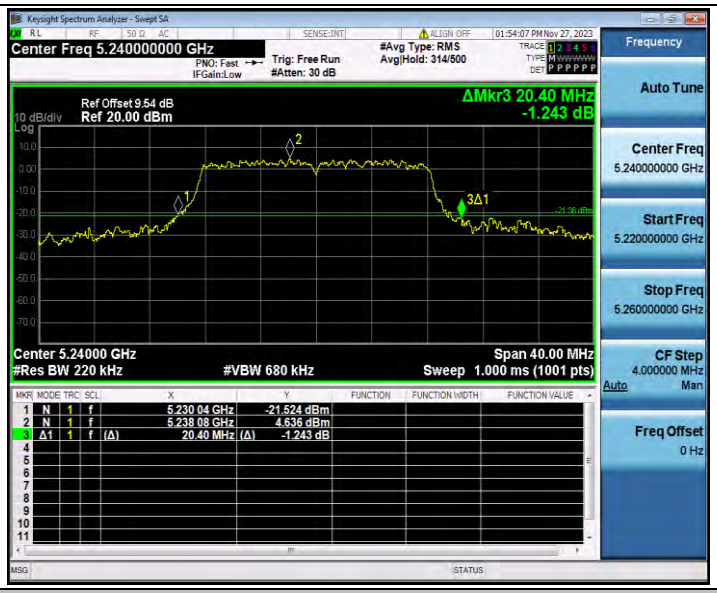
Test Graphs



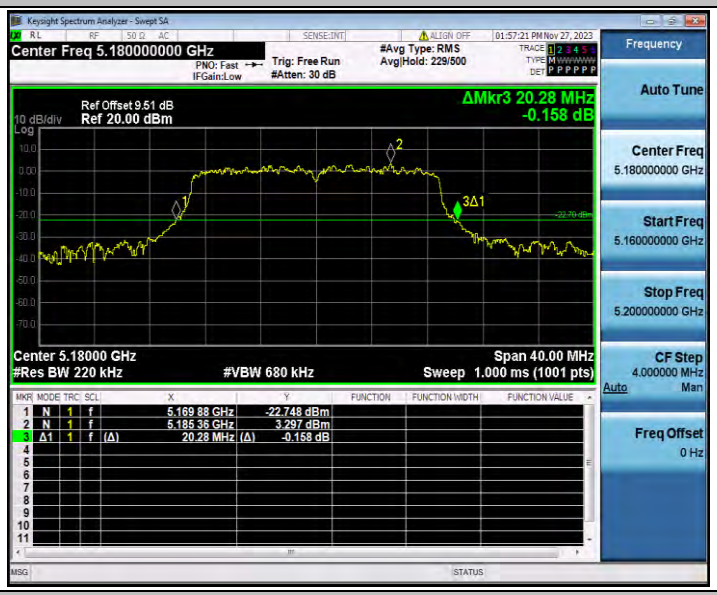
11A_Ant1_5180



11A_Ant1_5200



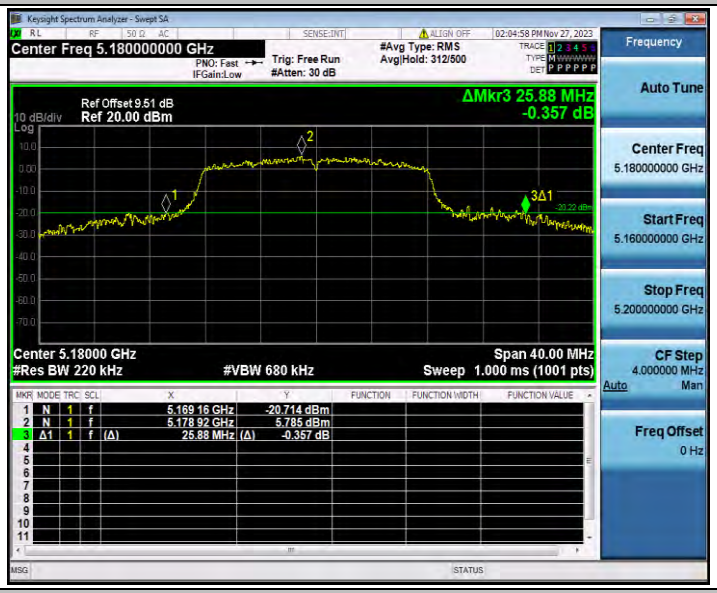
11A_Ant1_5240



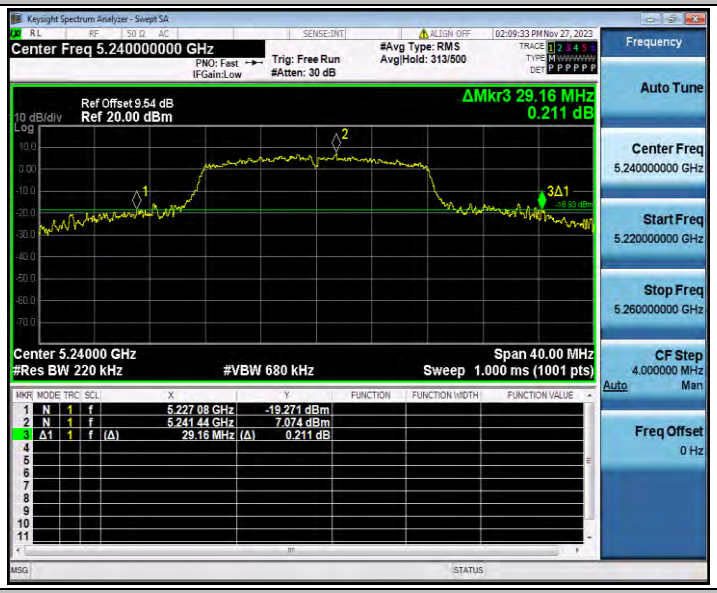
11N20SISO_Ant1_5180

11N20SISO_Ant1_5200

11N20SISO_Ant1_5240



11AC20SISO_Ant1_5180

11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240

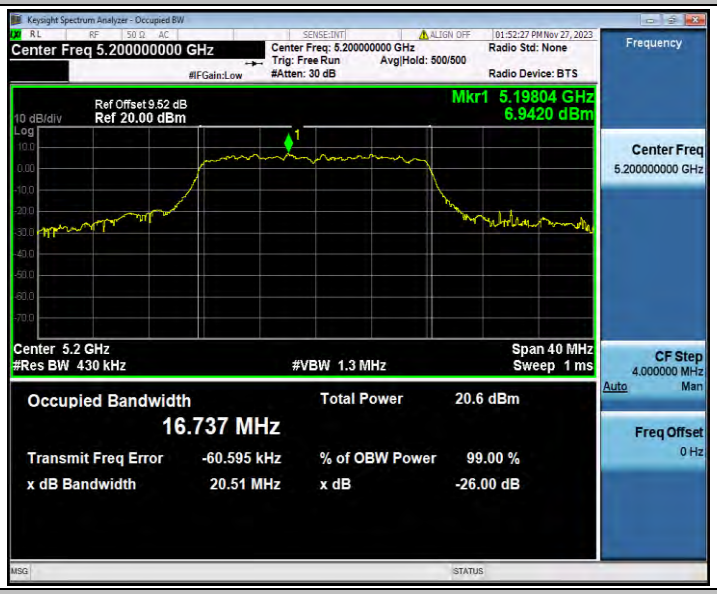
Appendix C.2: Occupied channel bandwidth

Test Result

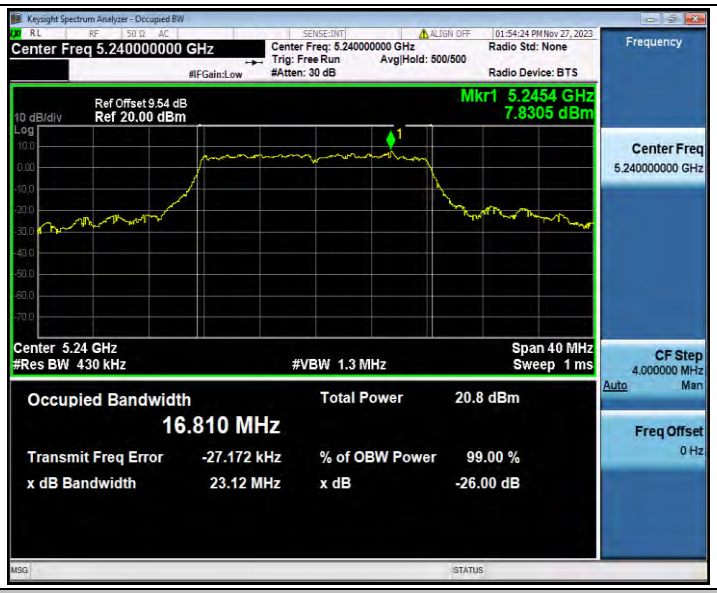
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.713	5171.667	5188.380	---	---
		5200	16.737	5191.571	5208.308	---	---
		5240	16.810	5231.568	5248.378	---	---
11N20SISO	Ant1	5180	17.775	5171.055	5188.830	---	---
		5200	17.800	5191.120	5208.920	---	---
		5240	17.746	5231.063	5248.809	---	---
11AC20SISO	Ant1	5180	16.943	5171.510	5188.453	---	---
		5200	17.085	5191.470	5208.555	---	---
		5240	17.302	5231.389	5248.691	---	---

Test Graphs

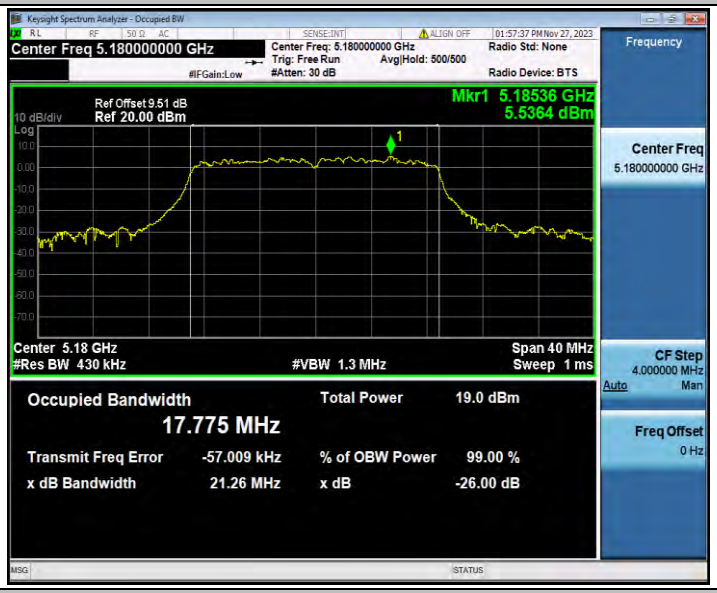
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180

11N20SISO_Ant1_5200

11N20SISO_Ant1_5240

11AC20SISO_Ant1_5180

11AC20SISO_Ant1_5200

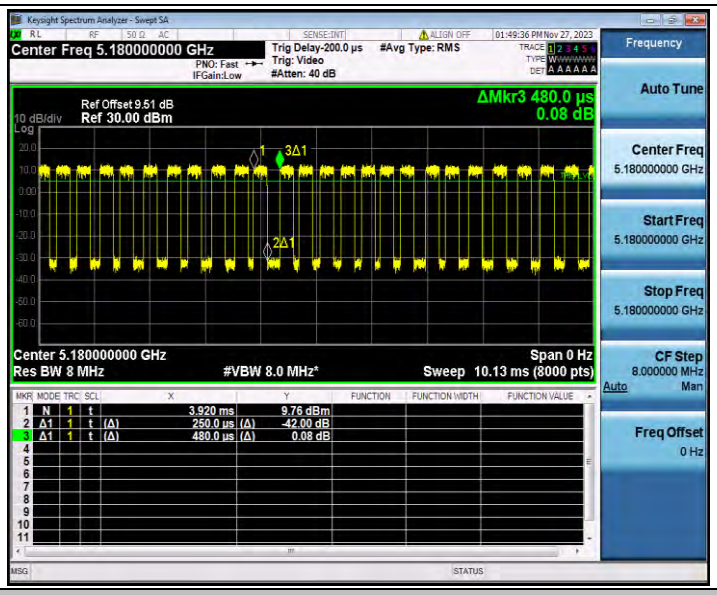
11AC20SISO_Ant1_5240

Appendix C.3: Duty Cycle

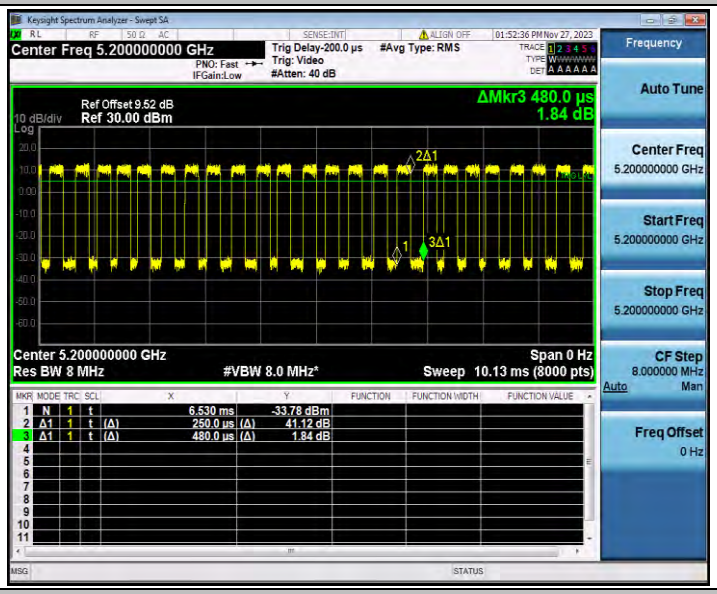
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.25	0.48	52.08
		5200	0.25	0.48	52.08
		5240	0.25	0.48	52.08
11N20SISO	Ant1	5180	0.23	0.46	50.00
		5200	0.23	0.46	50.00
		5240	0.23	0.46	50.00
11AC20SISO	Ant1	5180	2.07	2.54	81.50
		5200	2.06	2.53	81.42
		5240	2.06	2.49	82.73

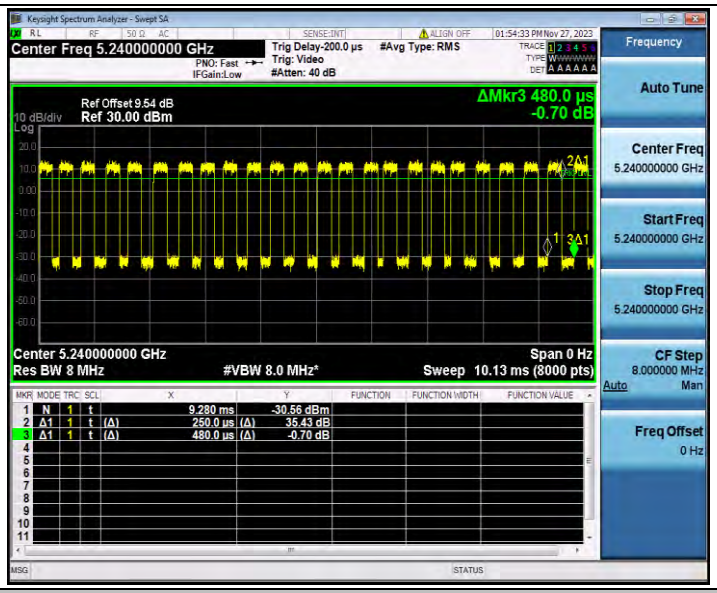
Test Graphs



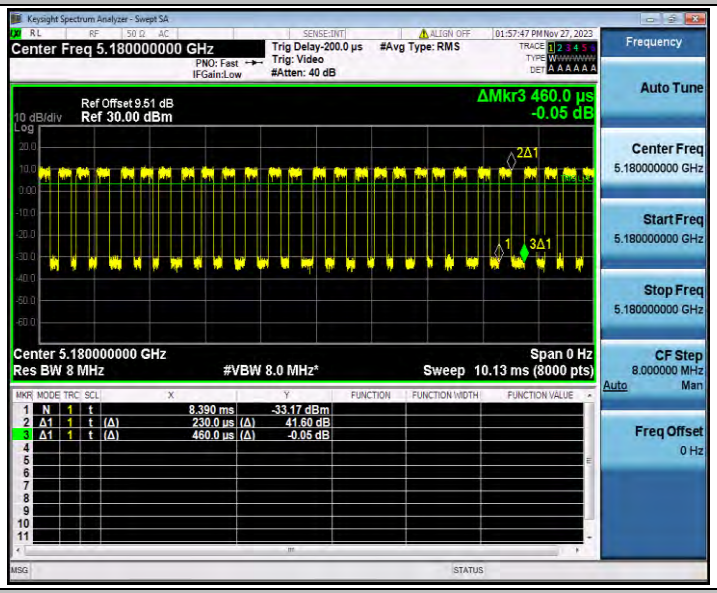
11A_Ant1_5180



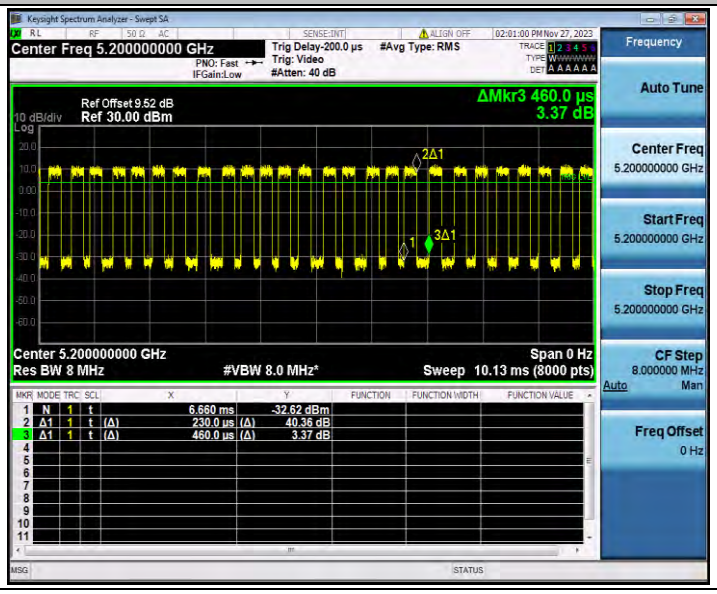
11A_Ant1_5200



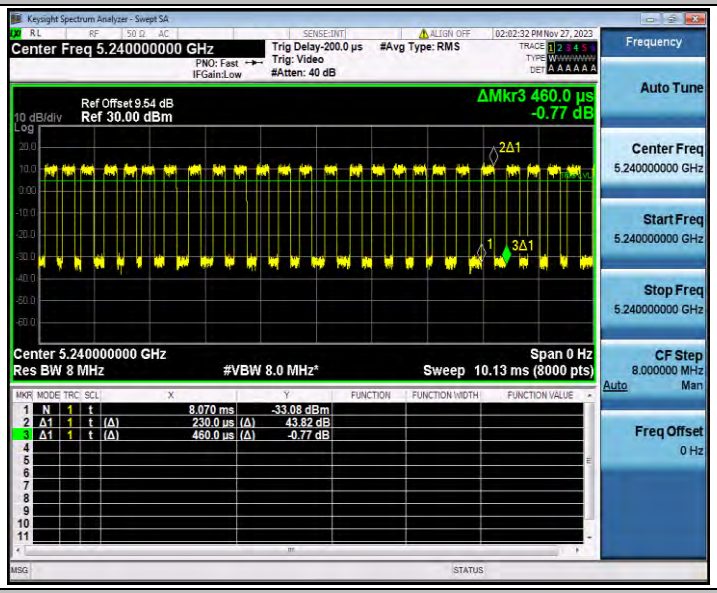
11A_Ant1_5240



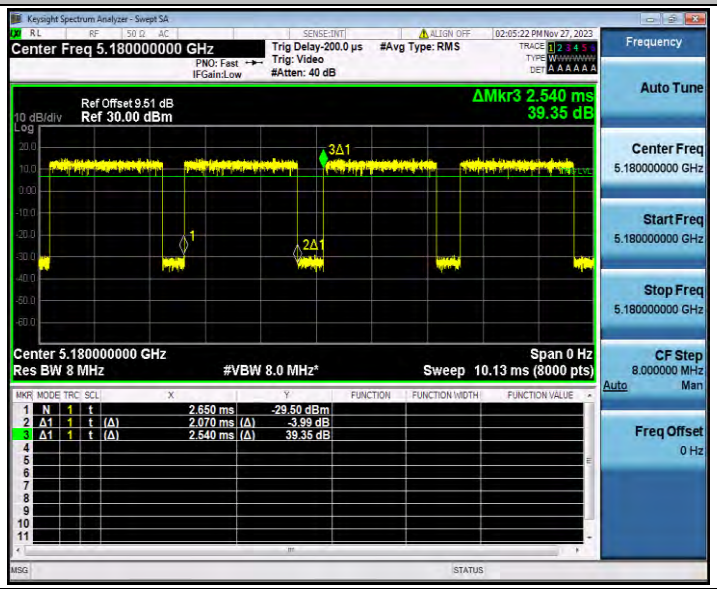
11N20SISO_Ant1_5180



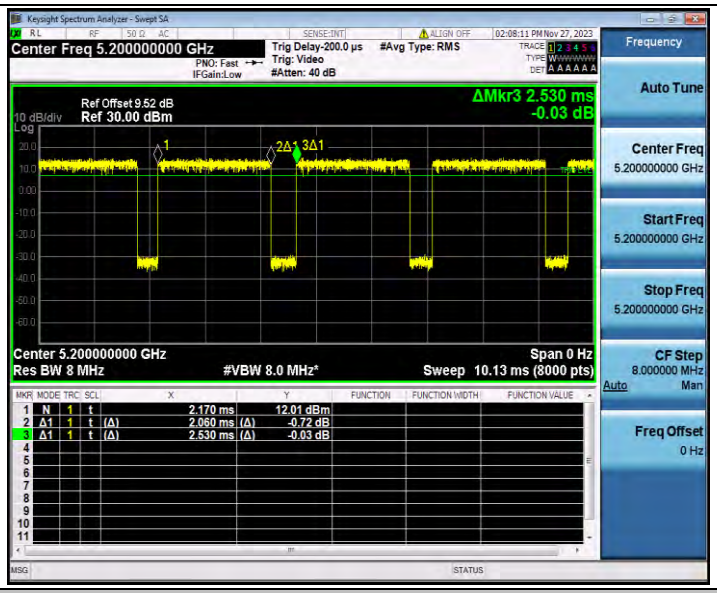
11N20SISO_Ant1_5200



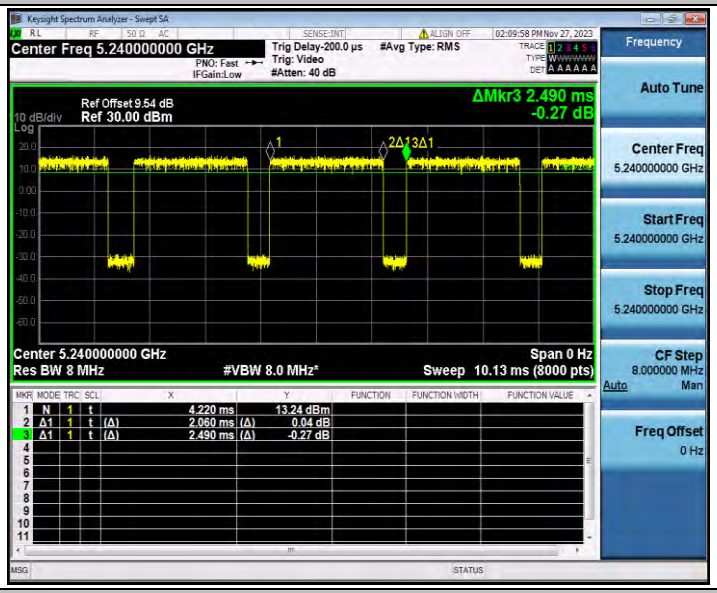
11N20SISO_Ant1_5240



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240

Appendix C.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.25	52.08	2.83	14.08	≤23.98	PASS
		5200	11.49	52.08	2.83	14.32	≤23.98	PASS
		5240	11.91	52.08	2.83	14.74	≤23.98	PASS
11N20SISO	Ant1	5180	9.88	50.00	3.01	12.89	≤23.98	PASS
		5200	10.21	50.00	3.01	13.22	≤23.98	PASS
		5240	10.79	50.00	3.01	13.80	≤23.98	PASS
11AC20SISO	Ant1	5180	13.79	81.50	0.89	14.68	≤23.98	PASS
		5200	14.04	81.42	0.89	14.93	≤23.98	PASS
		5240	14.69	82.73	0.82	15.51	≤23.98	PASS

Note：The Duty Cycle Factor is compensated in the graph.

Appendix C.5: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.43	≤11.00	PASS
		5200	3.75	≤11.00	PASS
		5240	4.36	≤11.00	PASS
11N20SISO	Ant1	5180	1.99	≤11.00	PASS
		5200	2.27	≤11.00	PASS
		5240	2.94	≤11.00	PASS
11AC20SISO	Ant1	5180	4.81	≤11.00	PASS
		5200	5.24	≤11.00	PASS
		5240	5.96	≤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.

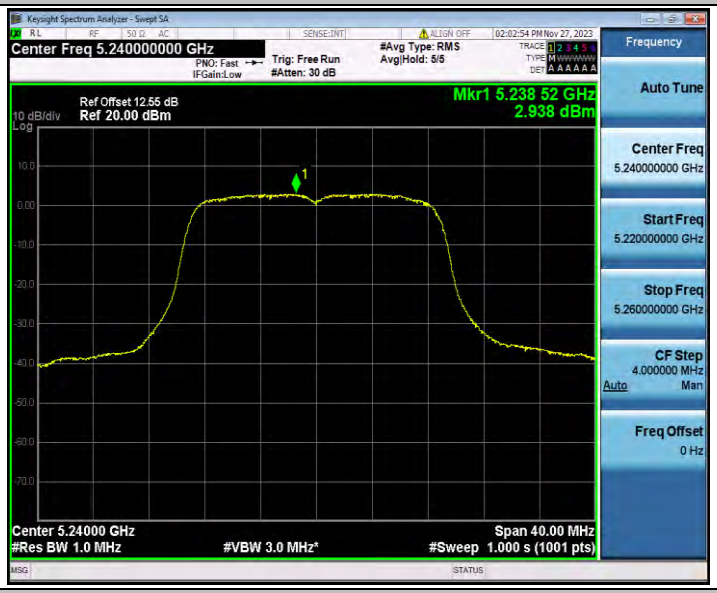
Test Graphs

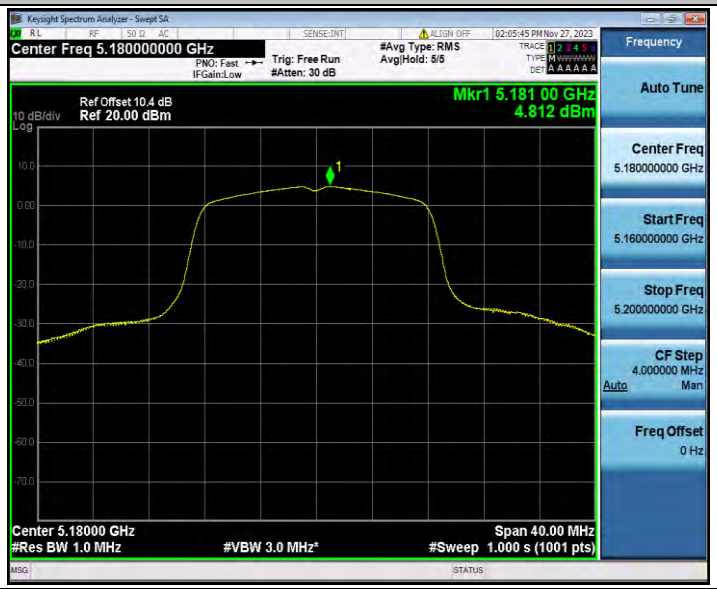
11A_Ant1_5180

11A_Ant1_5200

11A_Ant1_5240

11N20SISO_Ant1_5180

11N20SISO_Ant1_5200


11N20SISO_Ant1_5240


11AC20SISO_Ant1_5180

11AC20SISO_Ant1_5200

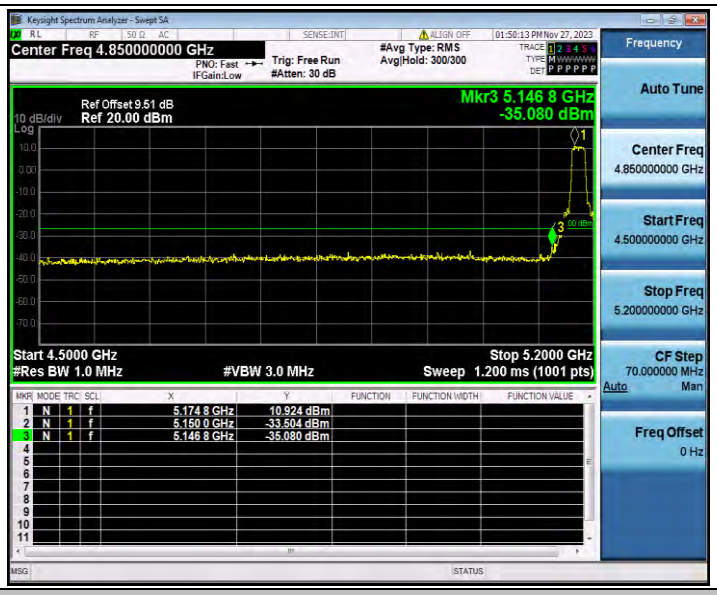
11AC20SISO_Ant1_5240

Appendix C.6: Band edge measurements

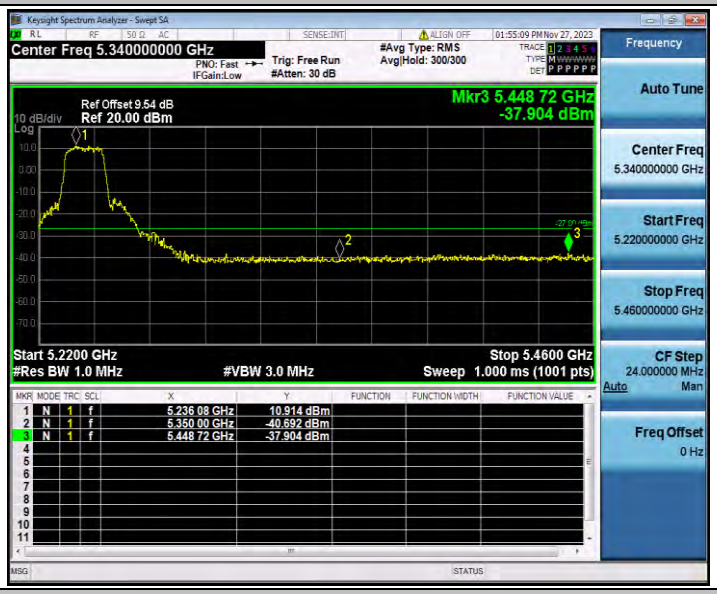
Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-35.08	≤-27	PASS
		High	5240	-37.9	≤-27	PASS
11N20SISO	Ant1	Low	5180	-36.49	≤-27	PASS
		High	5240	-38.39	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-31.95	≤-27	PASS
		High	5240	-38.12	≤-27	PASS

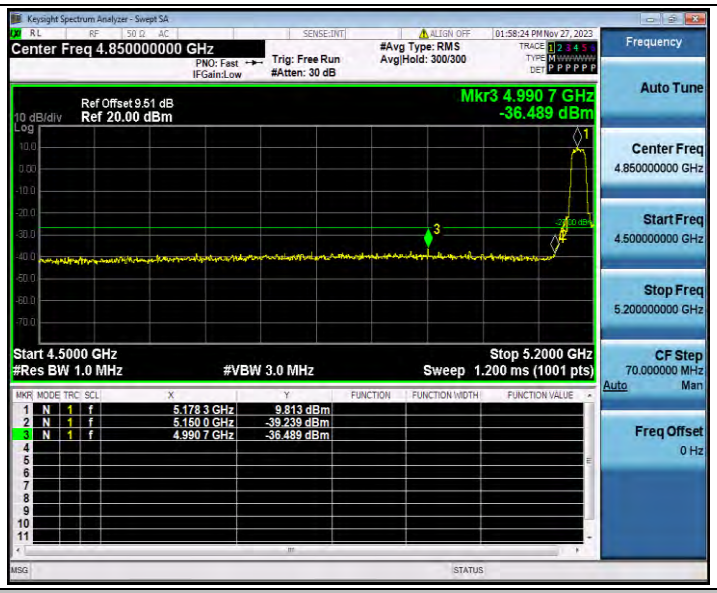
Test Graphs B1



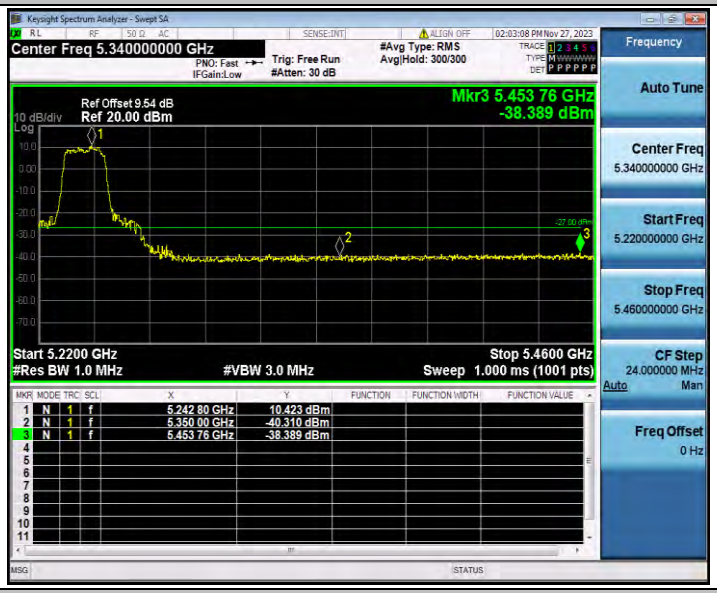
11A_Ant1_Low_5180



11A_Ant1_High_5240

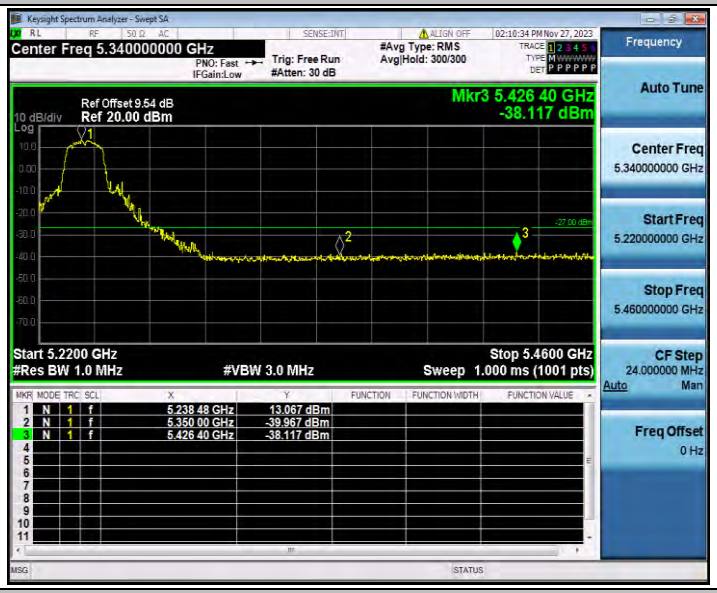


11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240

11AC20SISO_Ant1_Low_5180



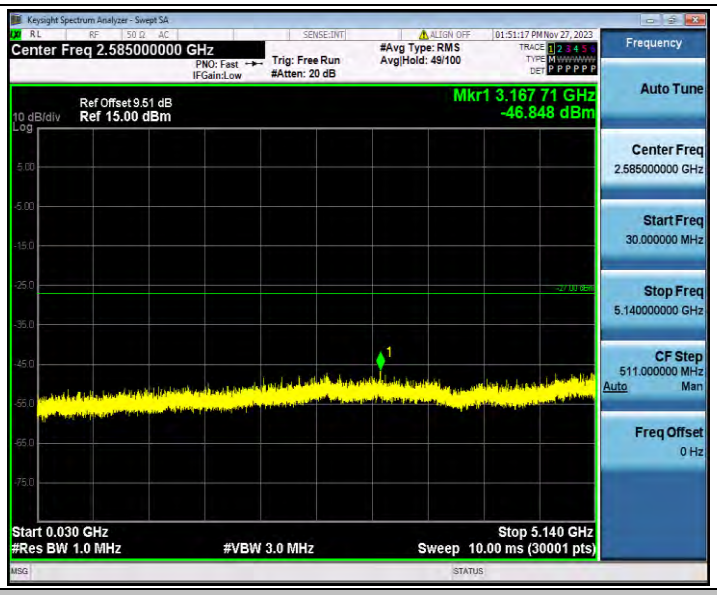
11AC20SISO_Ant1_High_5240

Appendix C.7: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	3167.71	-46.85	≤-27	PASS
			5360~40000	26583.07	-38.23	≤-27	PASS
		5200	30~5140	2660.63	-46.82	≤-27	PASS
			5360~40000	24271.92	-38.24	≤-27	PASS
		5240	30~5140	2322.52	-45.46	≤-27	PASS
			5360~40000	24972.33	-38.05	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5113.6	-46.45	≤-27	PASS
			5360~40000	26932.19	-38.19	≤-27	PASS
		5200	30~5140	4989.26	-46.68	≤-27	PASS
			5360~40000	24826.62	-37.92	≤-27	PASS
		5240	30~5140	4945.48	-46.96	≤-27	PASS
			5360~40000	26559.27	-38	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5140	-40.85	≤-27	PASS
			5360~40000	26841.31	-38.08	≤-27	PASS
		5200	30~5140	5007.48	-46.01	≤-27	PASS
			5360~40000	24280.57	-37.79	≤-27	PASS
		5240	30~5140	2503.41	-46.62	≤-27	PASS
			5360~40000	24877.84	-37.86	≤-27	PASS

Test Graphs

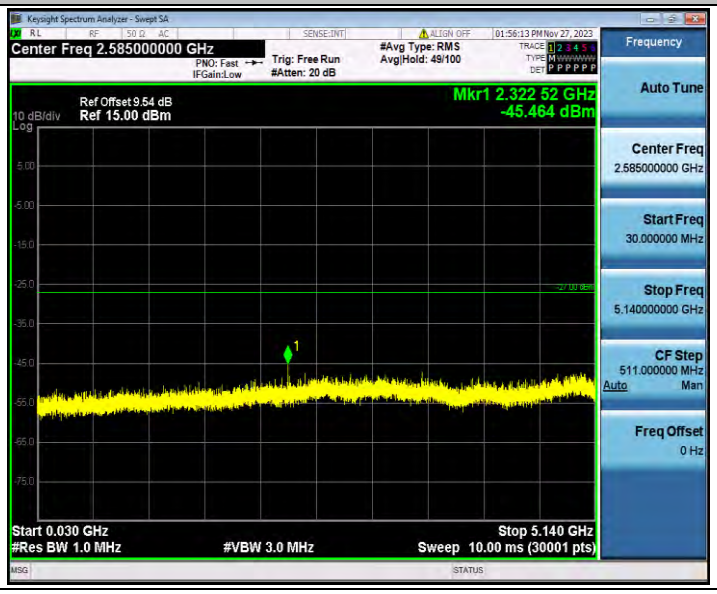


11A_Ant1_5180_30~5140

11A_Ant1_5180_5360~40000

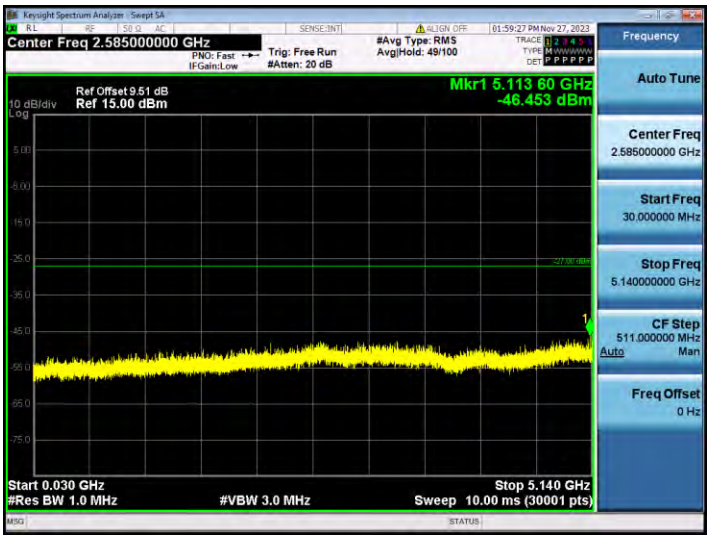
11A_Ant1_5200_30~5140

11A_Ant1_5200_5360~40000



11A_Ant1_5240_30~5140

11A_Ant1_5240_5360~40000

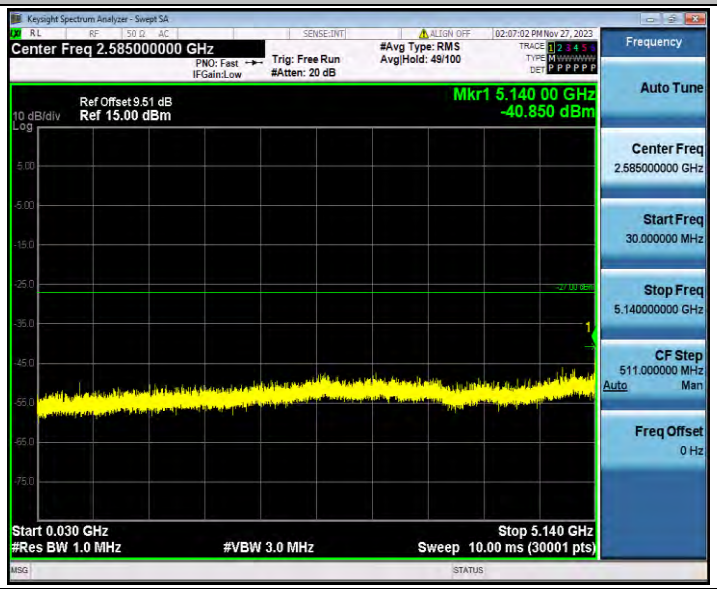


11N20SISO_Ant1_5180_30~5140

11N20SISO_Ant1_5180_5360~40000

11N20SISO_Ant1_5200_30~5140

11N20SISO_Ant1_5200_5360~40000

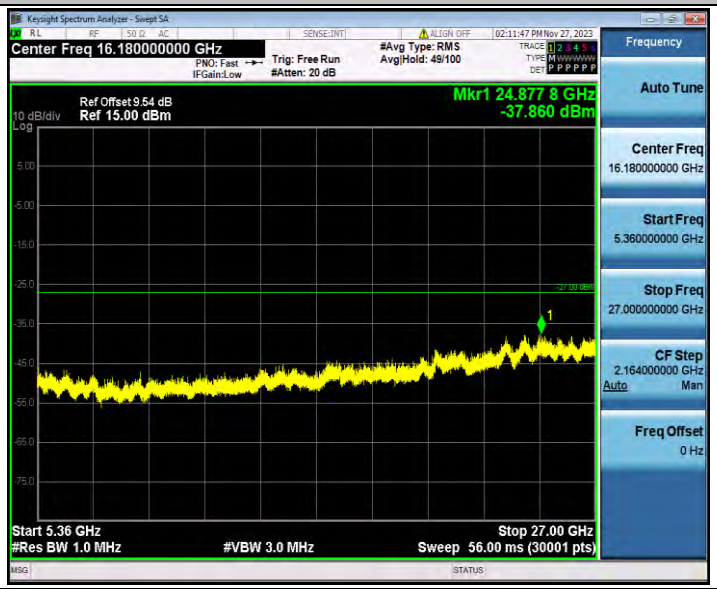
11N20SISO_Ant1_5240_30~5140
11N20SISO_Ant1_5240_5360~40000

11AC20SISO_Ant1_5180_30~5140

11AC20SISO_Ant1_5180_5360~40000

11AC20SISO_Ant1_5200_30~5140

11AC20SISO_Ant1_5200_5360~40000

11AC20SISO_Ant1_5240_30~5140



11AC20SISO_Ant1_5240_5360~40000

Appendix C.8: Emissions in Restricted Bands

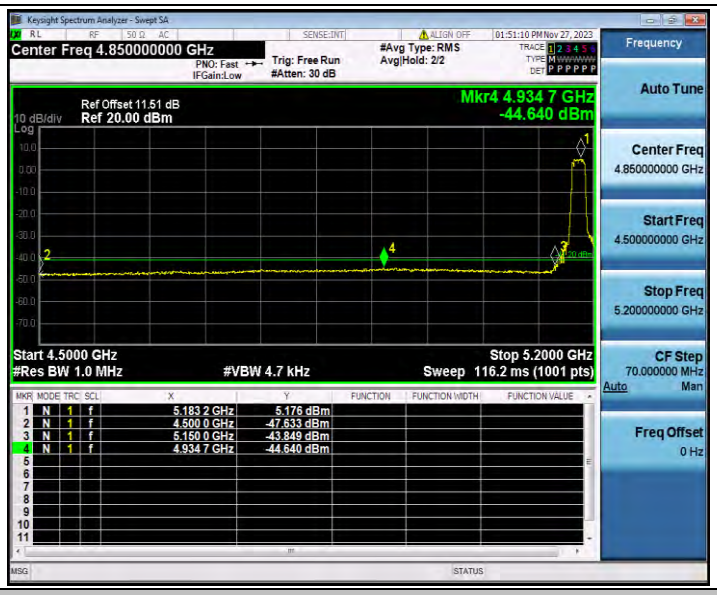
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-47.63	≤-41.20	47.57	≤54	PASS
				AV	4934.700	-44.64	≤-41.20	50.56	≤54	PASS
				AV	5150.000	-43.85	≤-41.20	51.35	≤54	PASS
				Peak	4500.000	-43.17	≤-21.20	52.03	≤74	PASS
				Peak	4672.200	-36.65	≤-21.20	58.55	≤74	PASS
				Peak	5150.000	-41.12	≤-21.20	54.08	≤74	PASS
		High	5240	AV	5350.000	-46.12	≤-41.20	49.08	≤54	PASS
				AV	5445.120	-44.8	≤-41.20	50.40	≤54	PASS
				AV	5460.000	-46.1	≤-41.20	49.10	≤54	PASS
				Peak	5350.000	-45.43	≤-21.20	49.77	≤74	PASS
				Peak	5436.480	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	5460.000	-39.42	≤-21.20	55.78	≤74	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-47.7	≤-41.20	47.50	≤54	PASS
				AV	4953.600	-44.45	≤-41.20	50.75	≤54	PASS
				AV	5150.000	-46.19	≤-41.20	49.01	≤54	PASS
				Peak	4500.000	-43.55	≤-21.20	51.65	≤74	PASS
				Peak	4788.400	-37.85	≤-21.20	57.35	≤74	PASS
				Peak	5150.000	-41.89	≤-21.20	53.31	≤74	PASS
		High	5240	AV	5350.000	-46.68	≤-41.20	48.52	≤54	PASS
				AV	5421.120	-45	≤-41.20	50.20	≤54	PASS
				AV	5460.000	-45.42	≤-41.20	49.78	≤54	PASS
				Peak	5350.000	-45.92	≤-21.20	49.28	≤74	PASS
				Peak	5448.000	-37.72	≤-21.20	57.48	≤74	PASS
				Peak	5460.000	-44.92	≤-21.20	50.28	≤74	PASS
11AC20SISO	Ant1	Low	5180	AV	4500.000	-48.19	≤-41.20	47.01	≤54	PASS
				AV	5149.600	-43.24	≤-41.20	51.96	≤54	PASS
				AV	5150.000	-42.82	≤-41.20	52.38	≤54	PASS
				Peak	4500.000	-45.47	≤-21.20	49.73	≤74	PASS
				Peak	4981.600	-37.47	≤-21.20	57.73	≤74	PASS
				Peak	5150.000	-41.37	≤-21.20	53.83	≤74	PASS
		High	5240	AV	5350.000	-46.87	≤-41.20	48.33	≤54	PASS
				AV	5456.640	-45.88	≤-41.20	49.32	≤54	PASS
				AV	5460.000	-45.99	≤-41.20	49.21	≤54	PASS
				Peak	5350.000	-43.88	≤-21.20	51.32	≤74	PASS
				Peak	5443.680	-37.16	≤-21.20	58.04	≤74	PASS
				Peak	5460.000	-45.59	≤-21.20	49.61	≤74	PASS

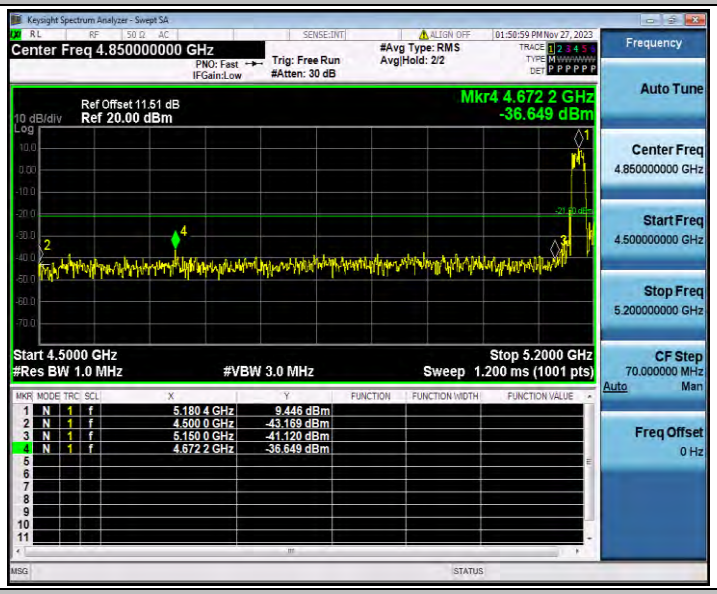
Note：

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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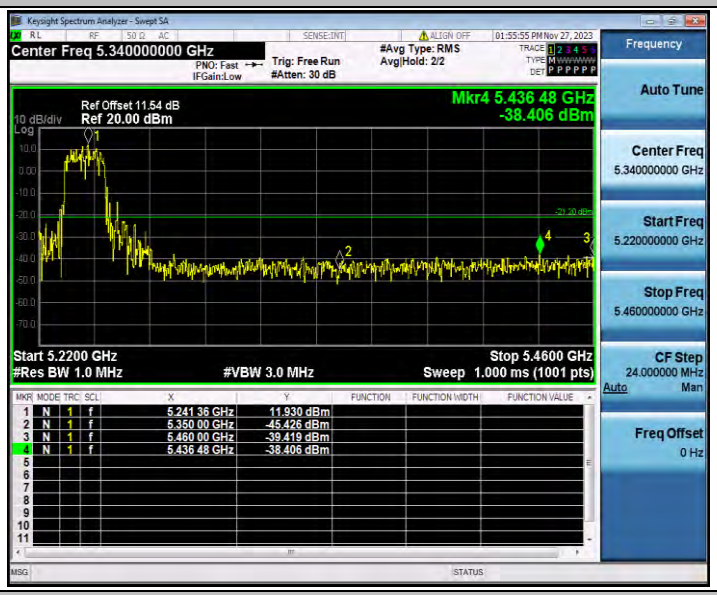
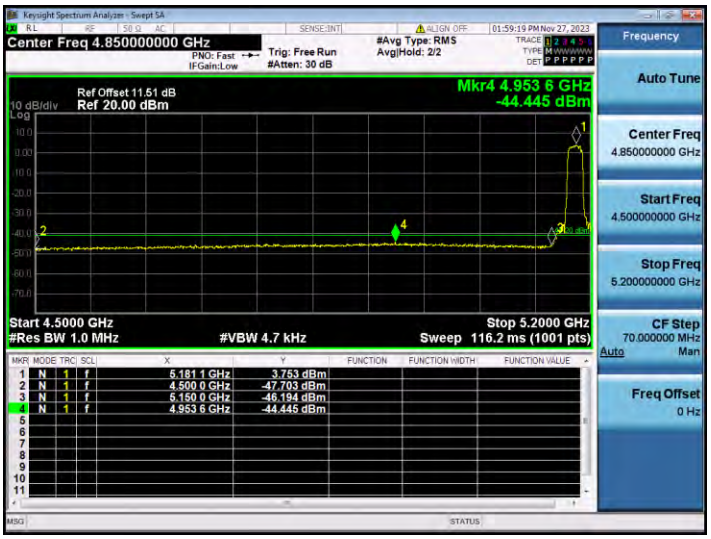


11A_Ant1_High_5240_Peak



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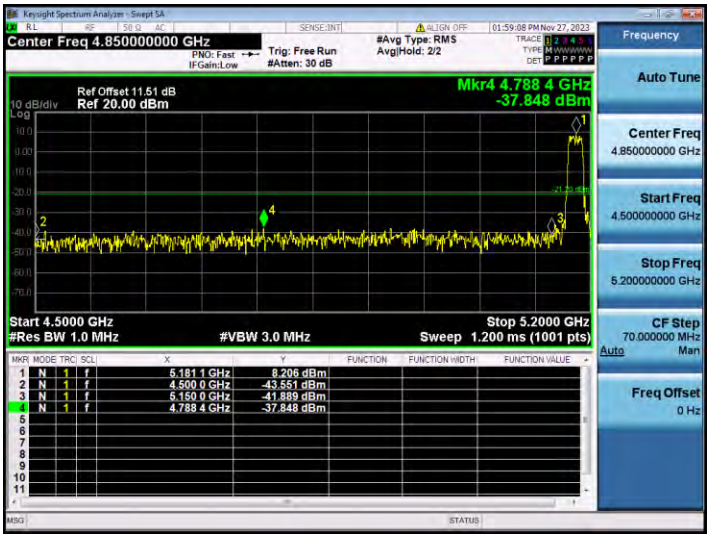

11N20SISO_Ant1_Low_5180_Peak

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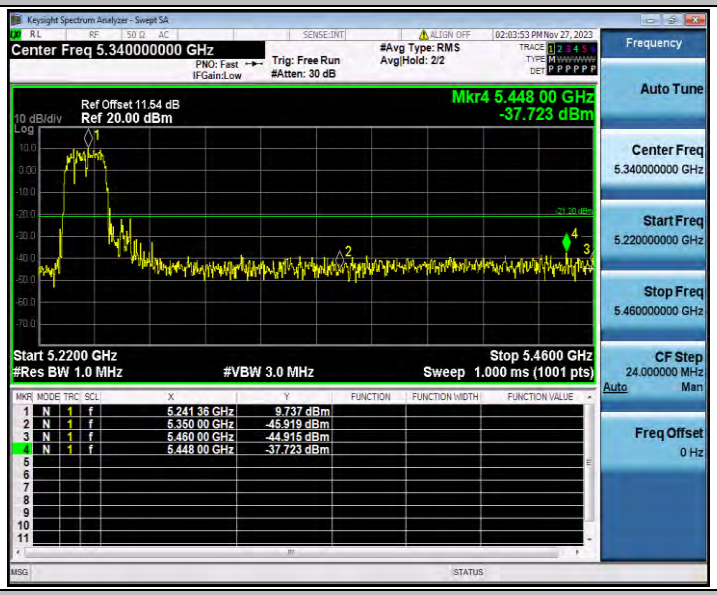

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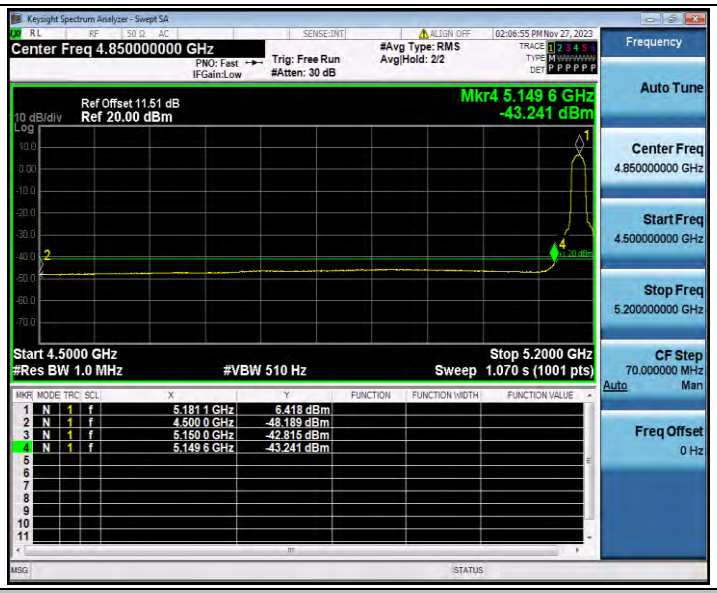

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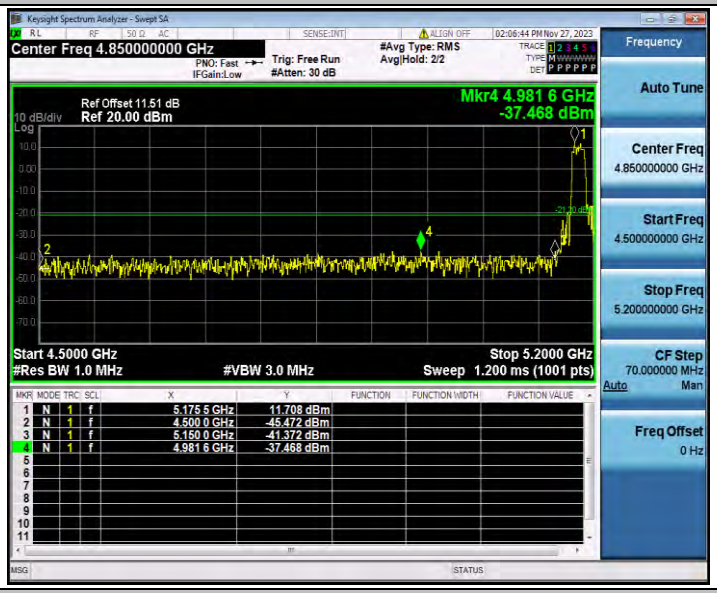

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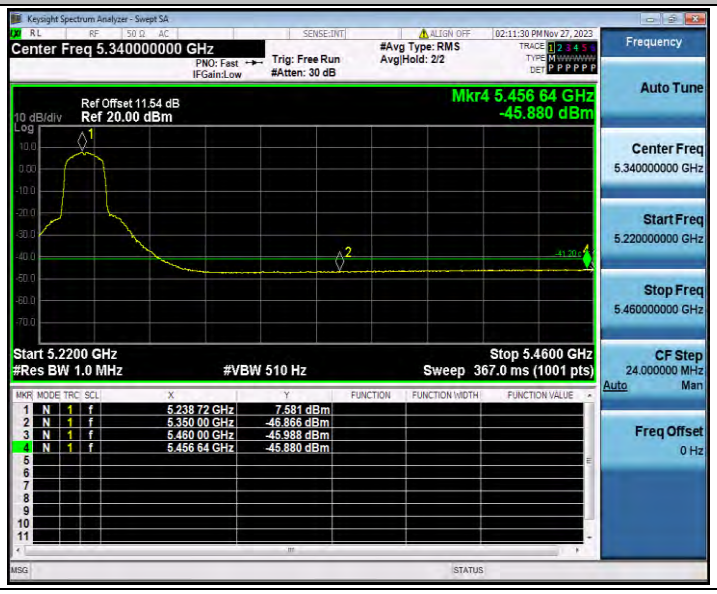

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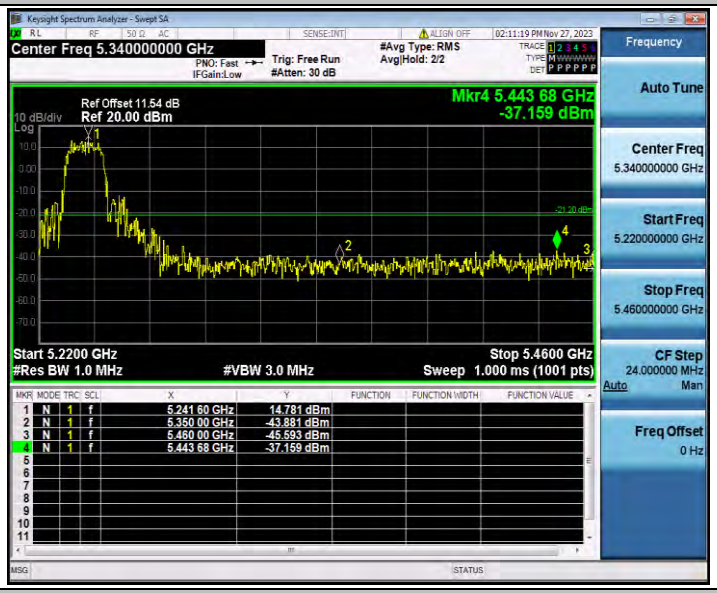
11AC20SISO_Ant1_High_5240_Peak