

Case No. : <u>CTA24061301903</u>	
Ambient Condition: <u>24</u> °C, <u>54</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.6.4</u>	Test Engineer: <u>Lushan Kong</u>

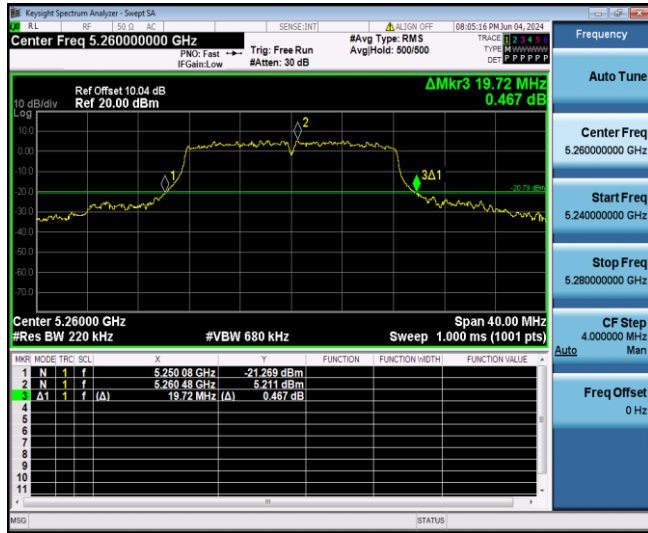
Appendix C.1: Emission Bandwidth

Test Result

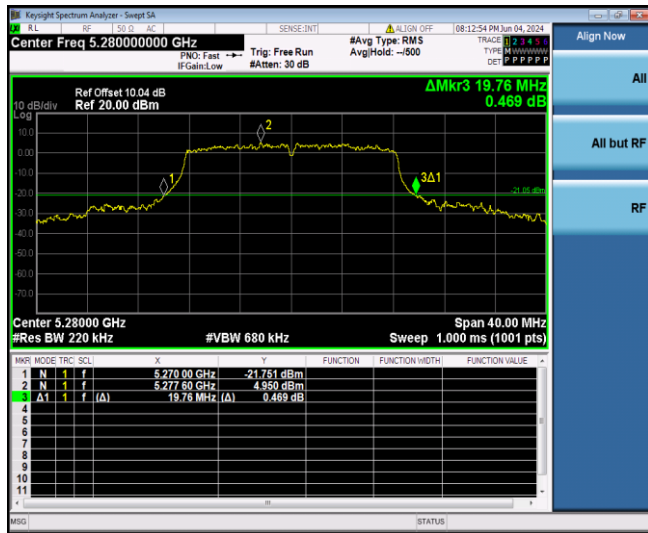
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5260	19.720	5250.080	5269.800
		5280	19.760	5270.000	5289.760
		5320	19.680	5310.040	5329.720
11N20SISO	Ant1	5260	20.360	5249.920	5270.280
		5280	20.360	5269.880	5290.240
		5320	20.160	5309.920	5330.080

Test Graphs

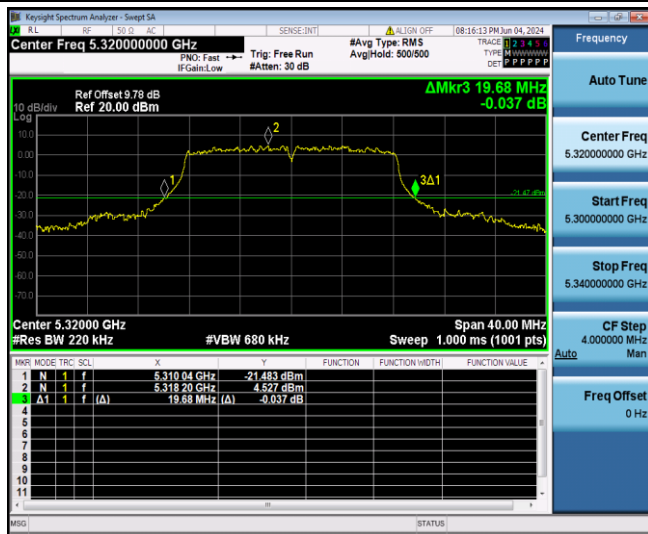
11A_Ant1_5260



11A_Ant1_5280



11A_Ant1_5320



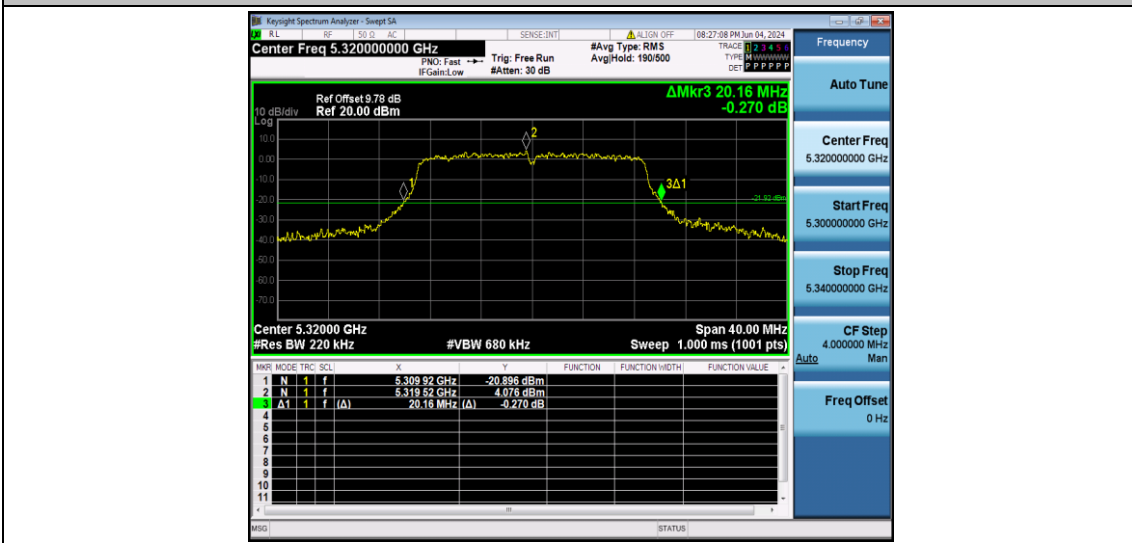
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



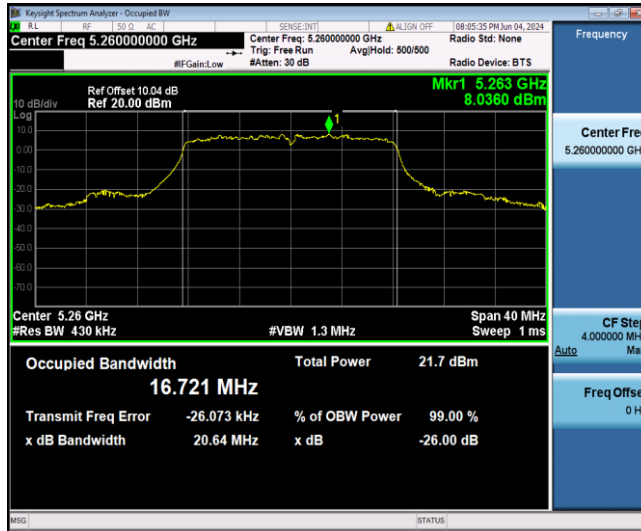
Appendix C.2: Occupied channel bandwidth

Test Result

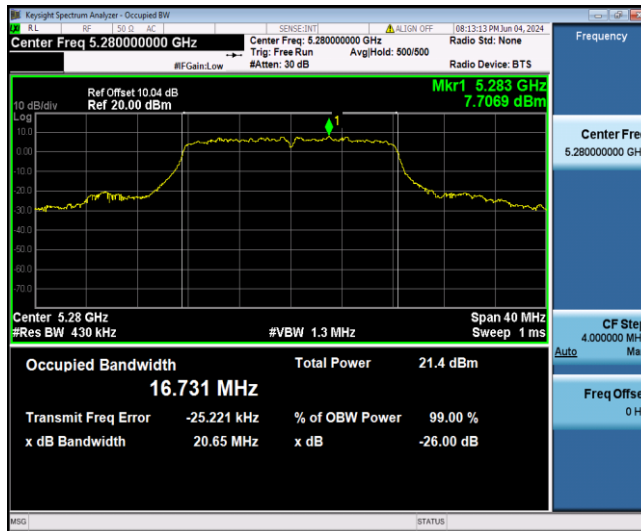
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5260	16.721	5251.6134	5268.3344
		5280	16.731	5271.6093	5288.3403
		5320	16.685	5311.6322	5328.3172
11N20SISO	Ant1	5260	17.784	5251.0672	5268.8512
		5280	17.768	5271.0862	5288.8542
		5320	17.751	5311.0898	5328.8408

Test Graphs

11A_Ant1_5260



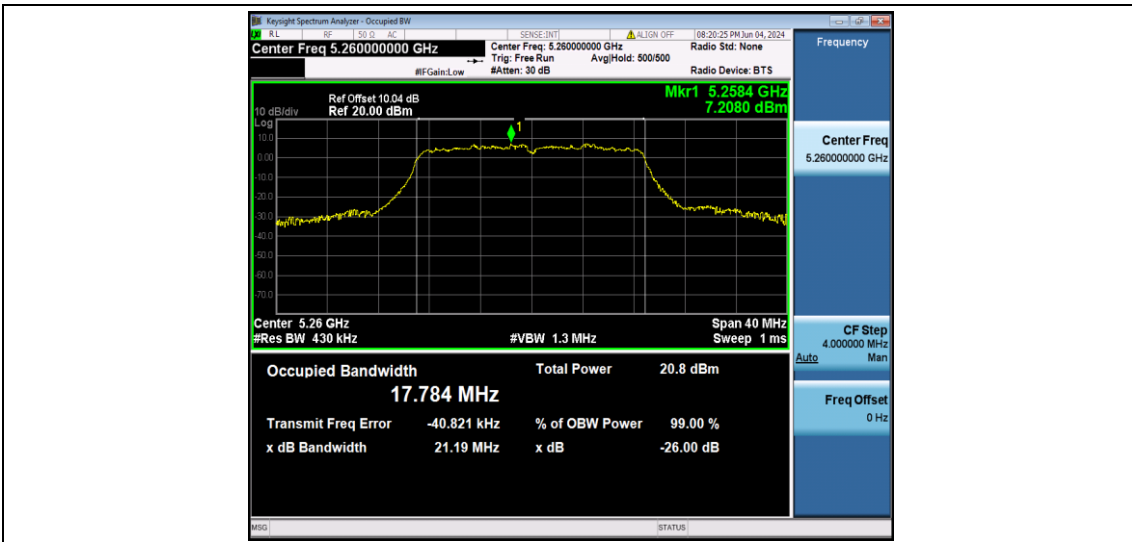
11A_Ant1_5280



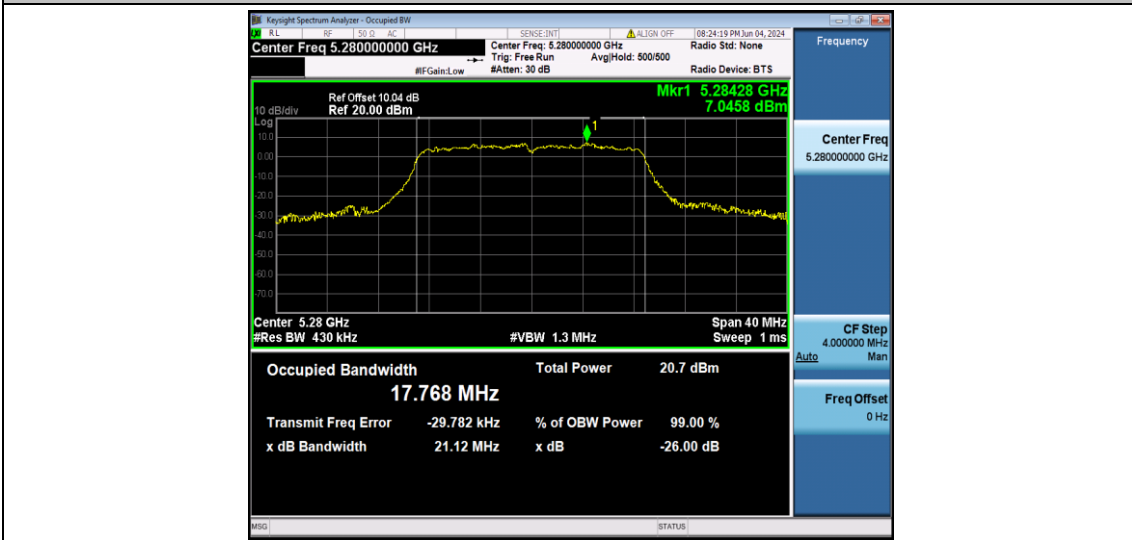
11A_Ant1_5320



11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



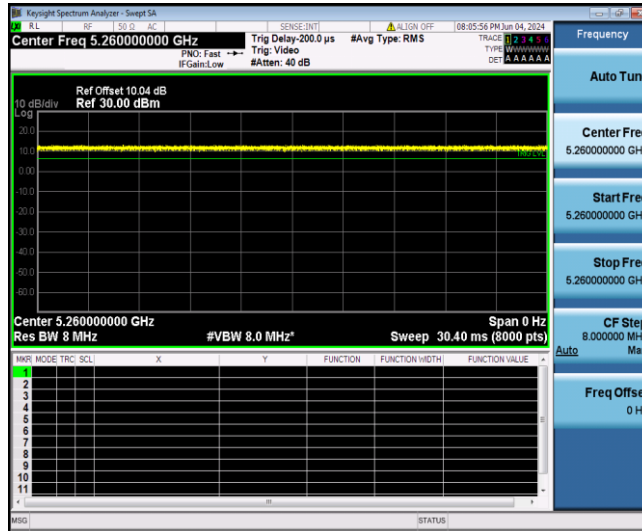
Appendix C.3 : Duty Cycle

Test Result

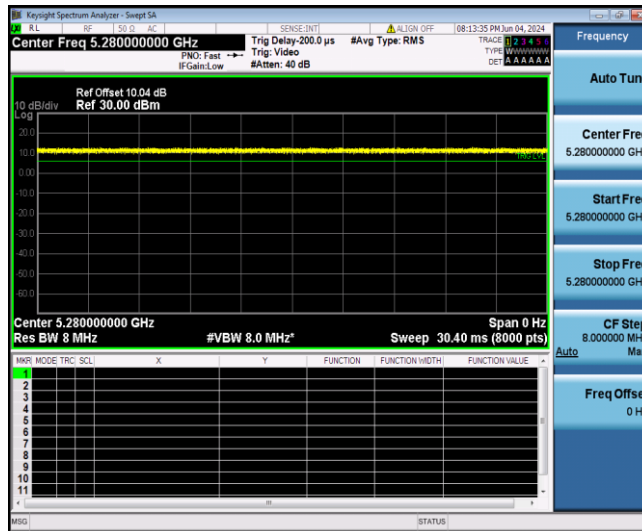
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5260	30.00	30.00	100.00	0.00	0.03
		5280	30.00	30.00	100.00	0.00	0.03
		5320	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5260	30.00	30.00	100.00	0.00	0.03
		5280	30.00	30.00	100.00	0.00	0.03
		5320	30.00	30.00	100.00	0.00	0.03

Test Graphs

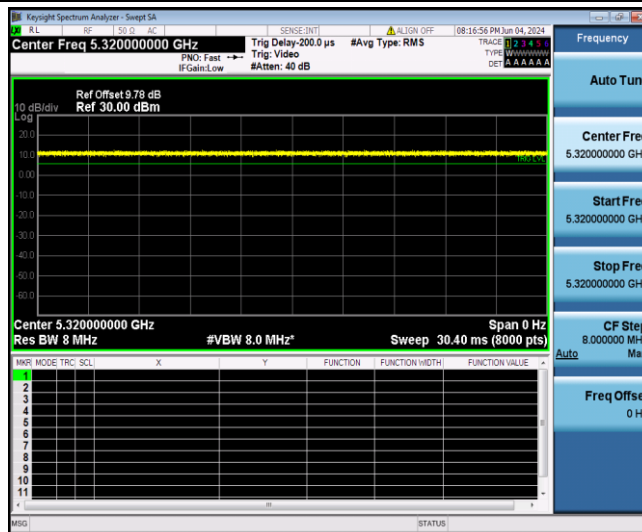
11A_Ant1_5260



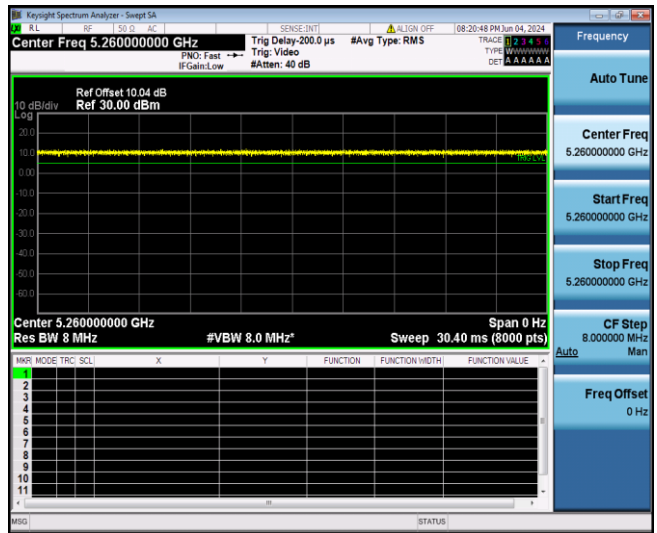
11A_Ant1_5280



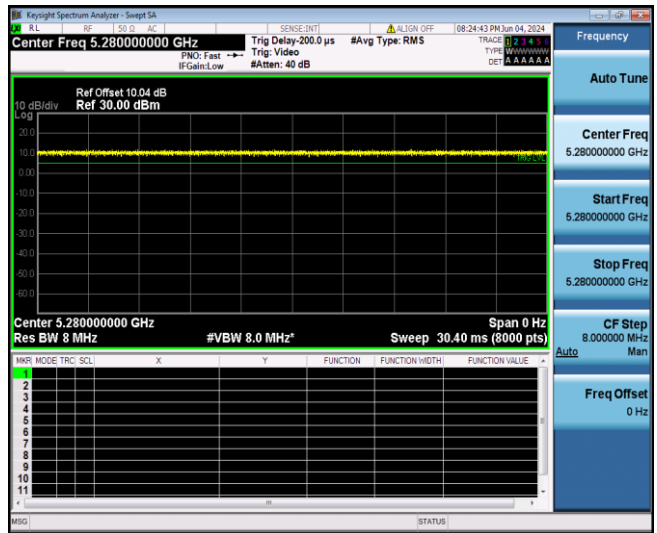
11A_Ant1_5320



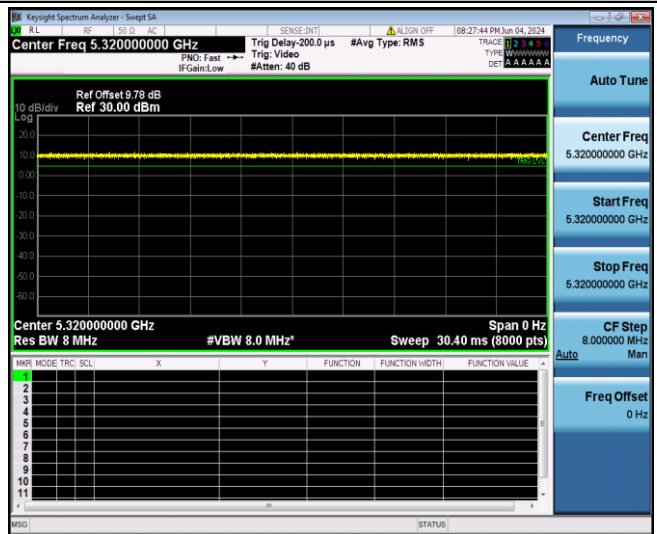
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



Appendix C.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	5260	16.68	100.00	0.00	16.68	≤23.95	PASS
		5280	16.37	100.00	0.00	16.37	≤23.96	PASS
		5320	16.02	100.00	0.00	16.02	≤23.94	PASS
11N20SISO	Ant1	5260	16.65	100.00	0.00	16.65	≤23.98	PASS
		5280	16.51	100.00	0.00	16.51	≤23.98	PASS
		5320	16.22	100.00	0.00	16.22	≤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 C.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	3.32	≤11.00	PASS
		5280	2.93	≤11.00	PASS
		5320	2.54	≤11.00	PASS
11N20SISO	Ant1	5260	1.96	≤11.00	PASS
		5280	1.76	≤11.00	PASS
		5320	1.45	≤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

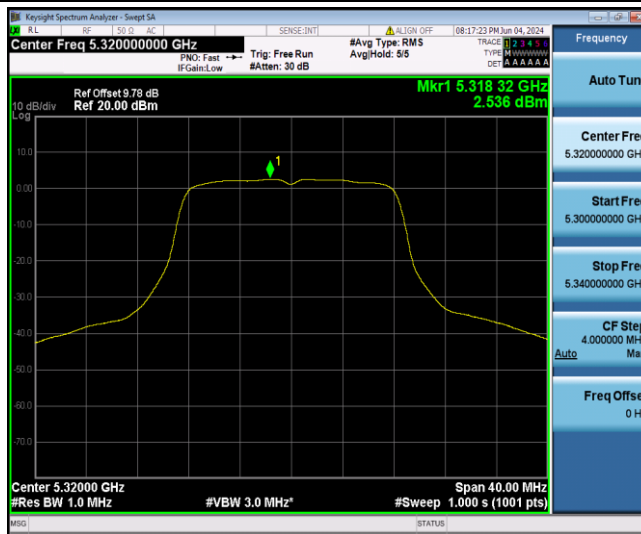
11A_Ant1_5260



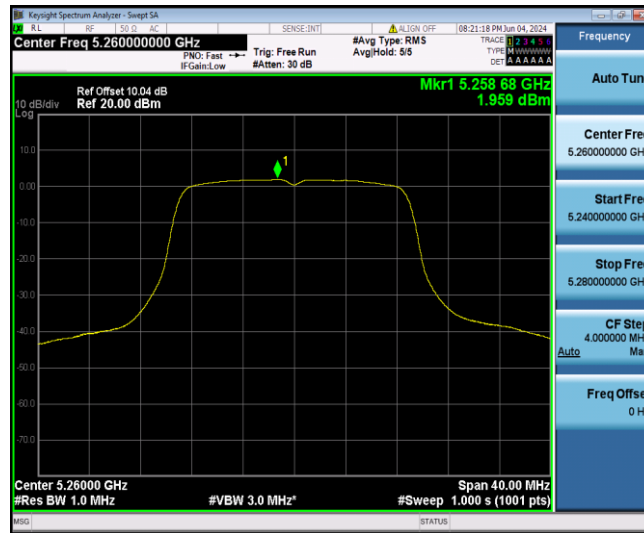
11A_Ant1_5280



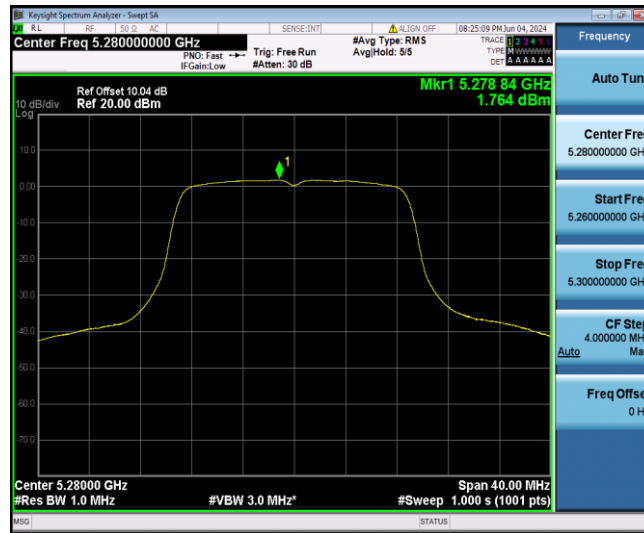
11A_Ant1_5320



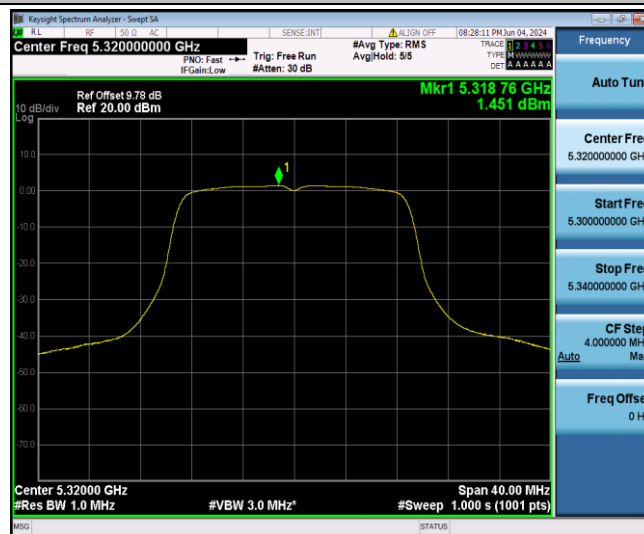
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320

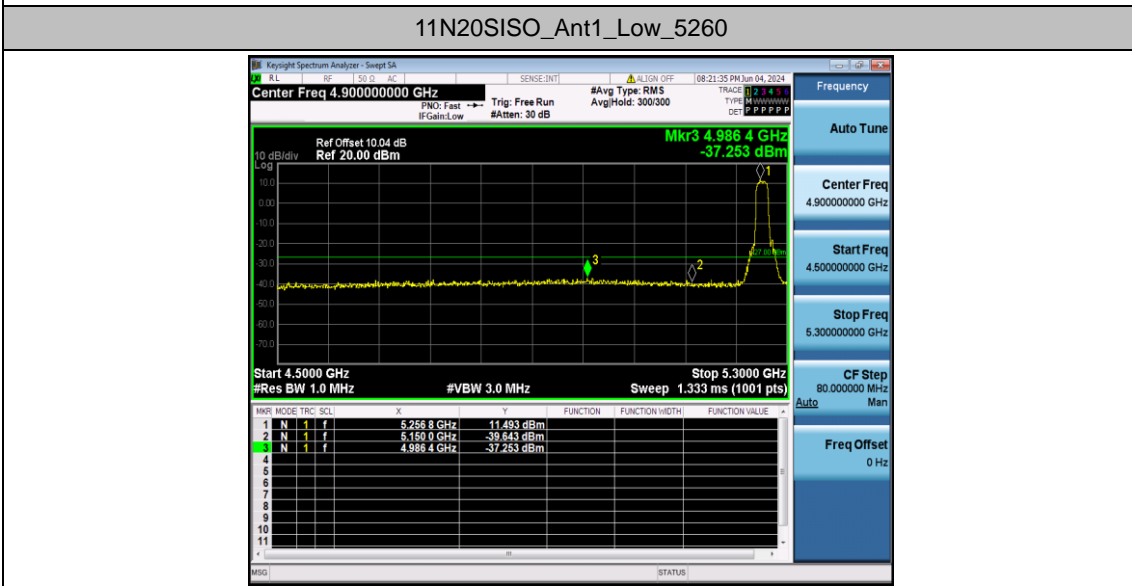
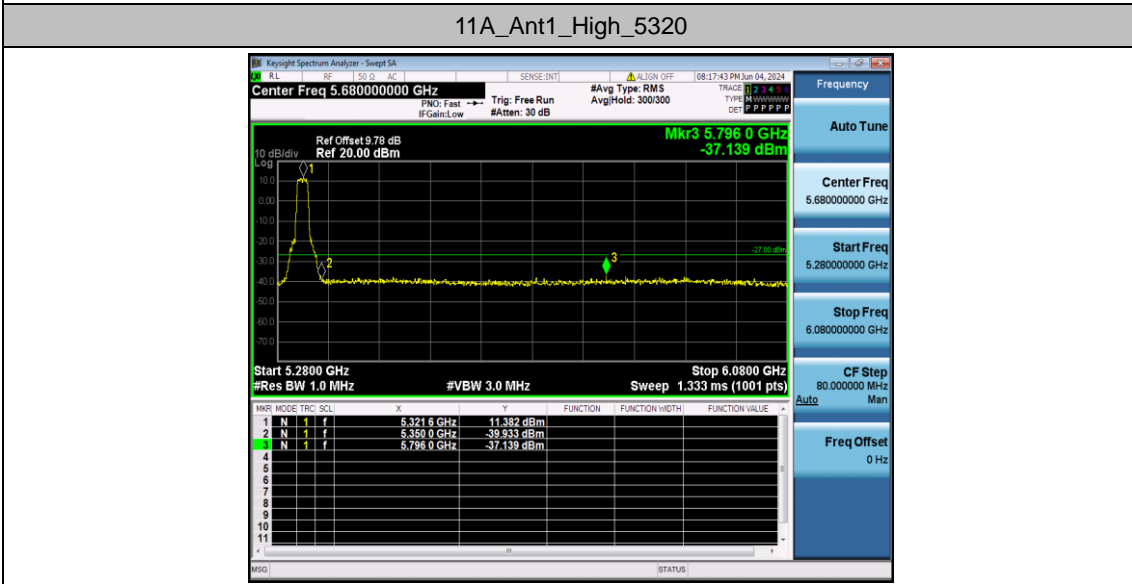
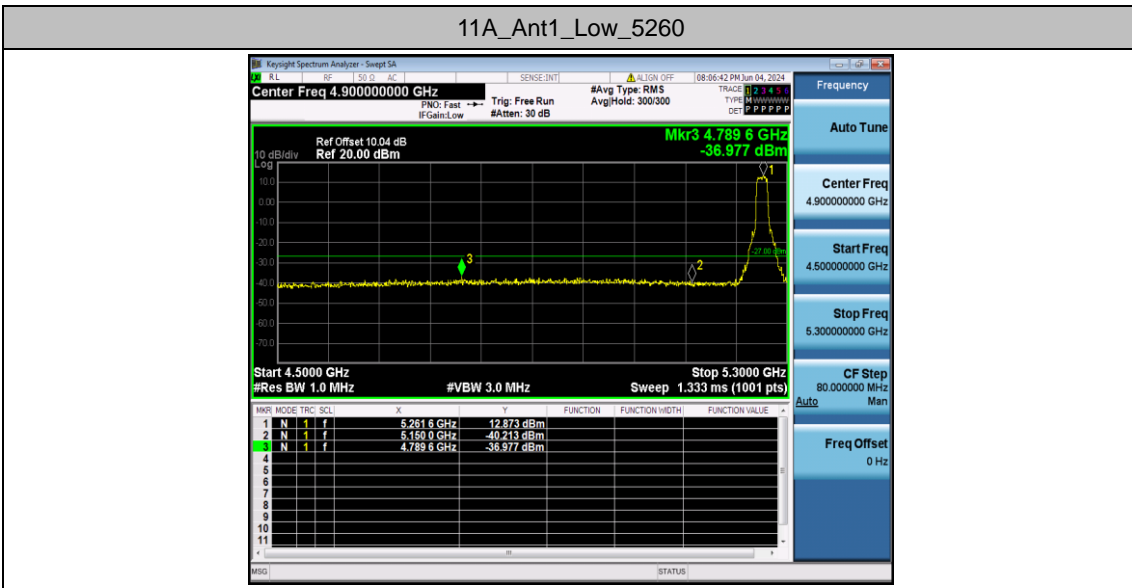


Appendix C.6: Band edge measurements

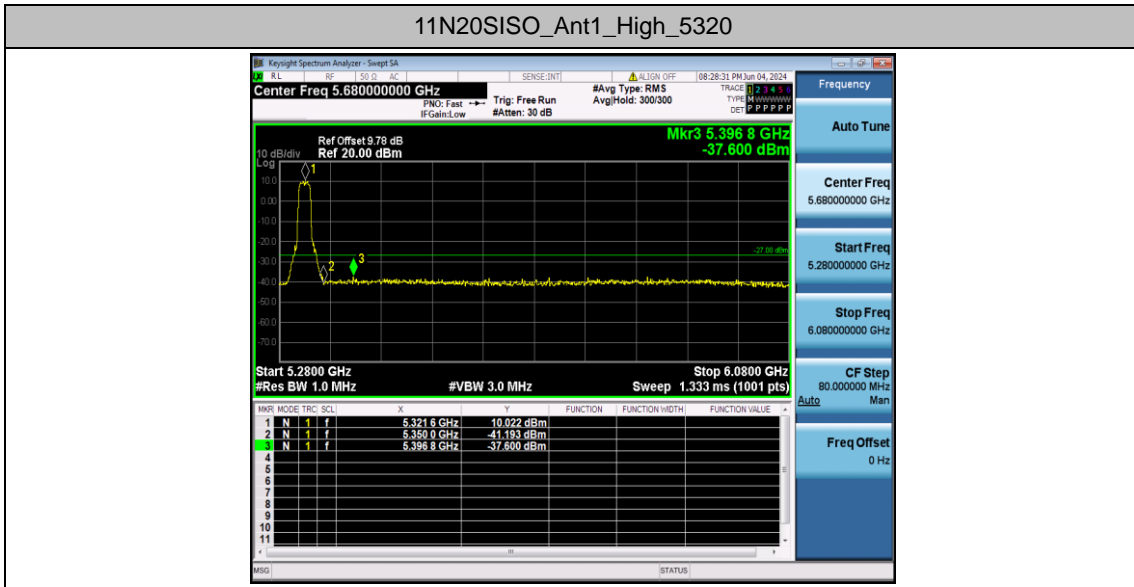
Test Result B2

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5260	-36.98	≤-27	PASS
		High	5320	-37.14	≤-27	PASS
11N20SISO	Ant1	Low	5260	-37.25	≤-27	PASS
		High	5320	-37.6	≤-27	PASS

Test Graphs B2



11N20SISO_Ant1_High_5320



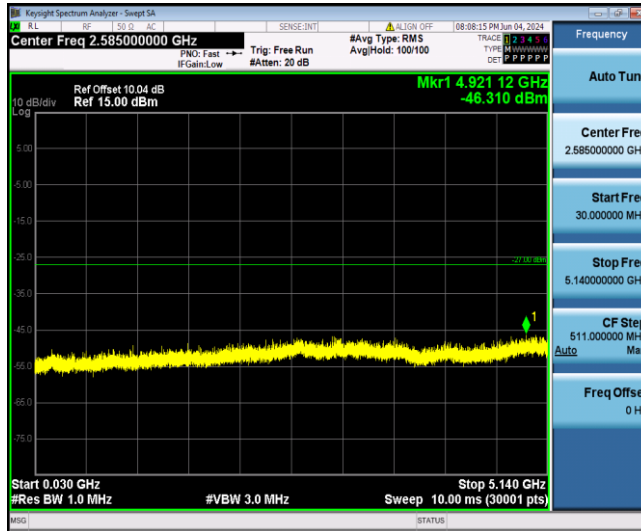
Appendix C.7: Conducted Spurious Emission

Test Result

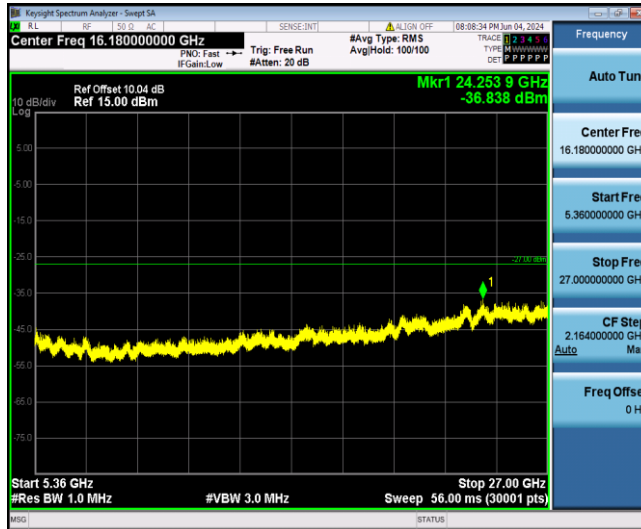
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	30~5140	4921.12	-46.31	≤-27	PASS
			5360~27000	24253.88	-36.84	≤-27	PASS
		5280	30~5140	5113.6	-46.16	≤-27	PASS
			5360~27000	25577.53	-37.23	≤-27	PASS
		5320	30~5140	1744.75	-38.02	≤-27	PASS
			5360~27000	24287.79	-37.64	≤-27	PASS
11N20SISO	Ant1	5260	30~5140	2416.54	-45.95	≤-27	PASS
			5360~27000	26808.13	-36.29	≤-27	PASS
		5280	30~5140	1738.1	-46.05	≤-27	PASS
			5360~27000	24288.51	-37.42	≤-27	PASS
		5320	30~5140	2688.22	-46.36	≤-27	PASS
			5360~27000	26758.35	-37.75	≤-27	PASS

Test Graphs

11A_Ant1_5260_30~5140



11A_Ant1_5260_5360~27000



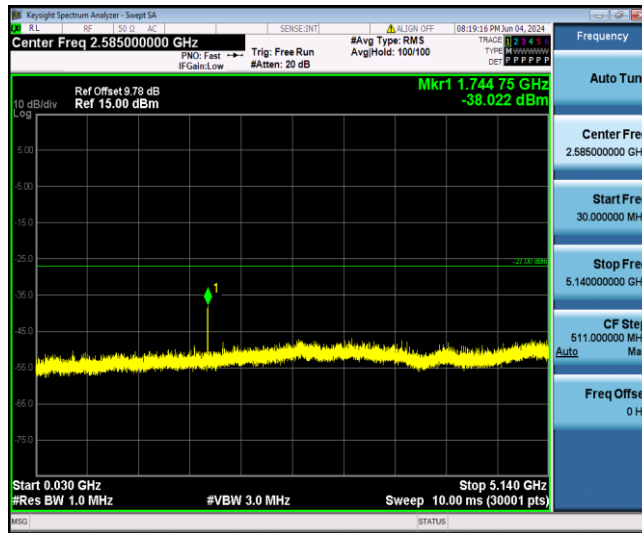
11A_Ant1_5280_30~5140



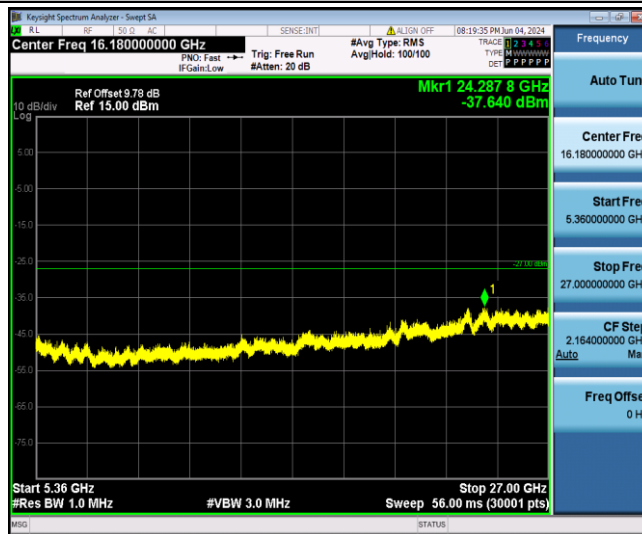
11A_Ant1_5280_5360~27000



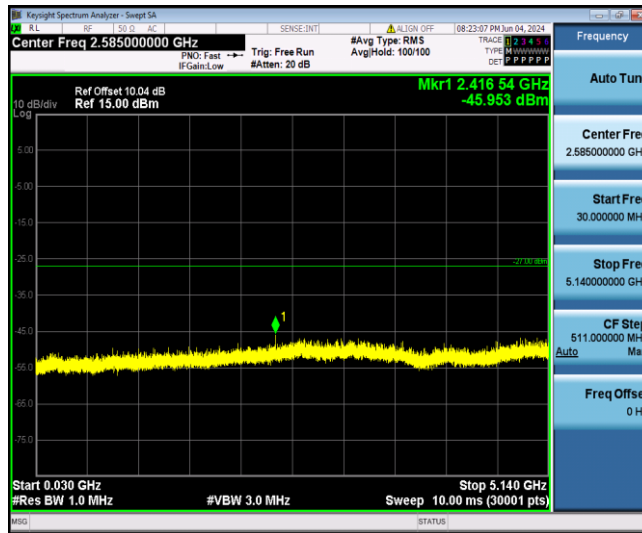
11A_Ant1_5320_30~5140



11A_Ant1_5320_5360~27000



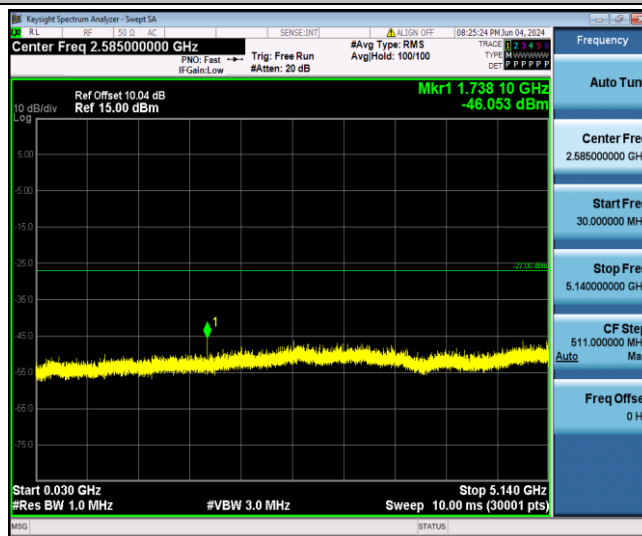
11N20SISO_Ant1_5260_30~5140



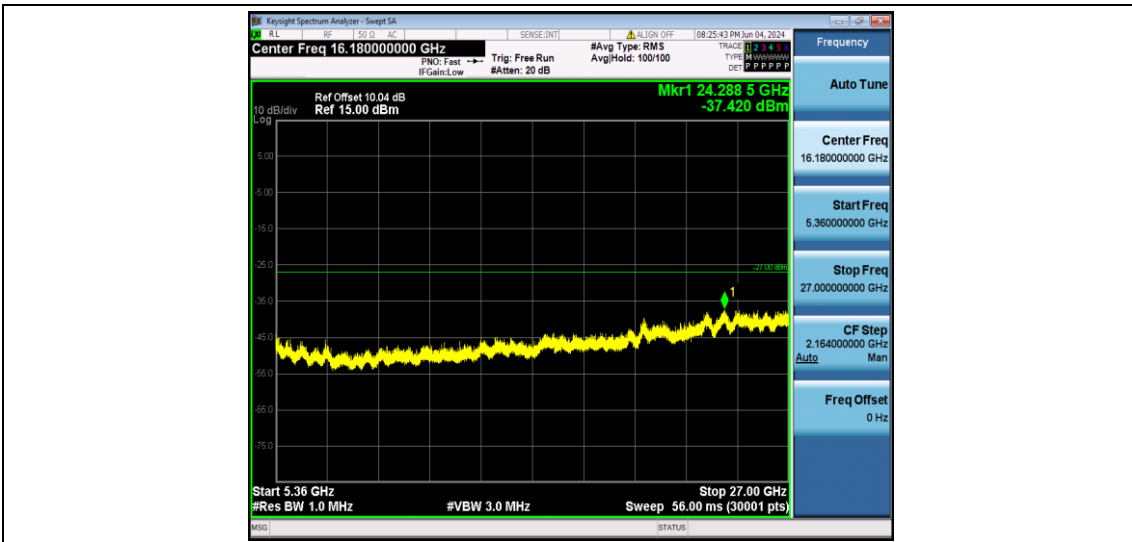
11N20SISO_Ant1_5260_5360~27000



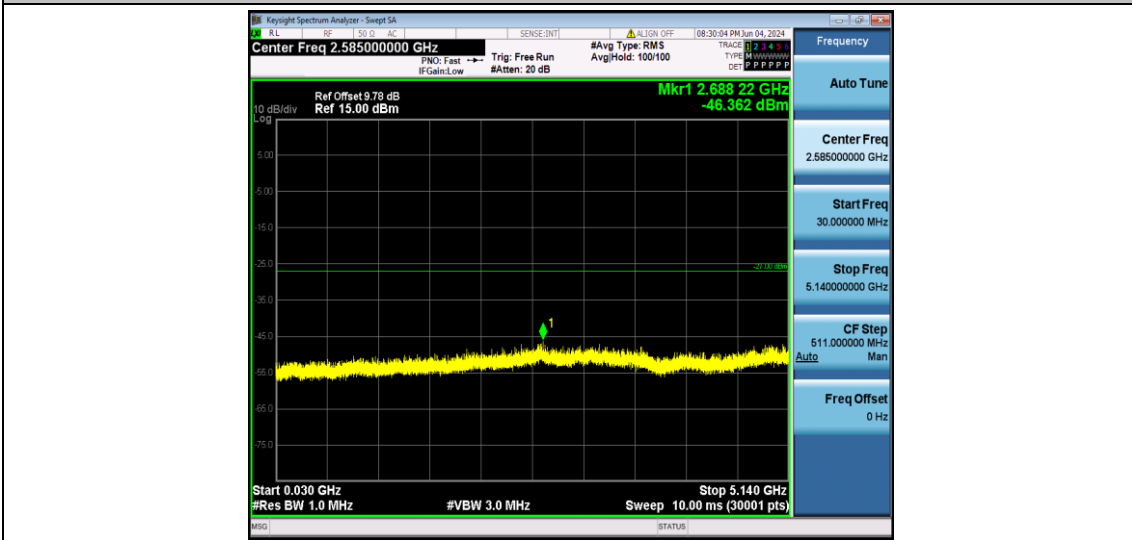
11N20SISO_Ant1_5280_30~5140



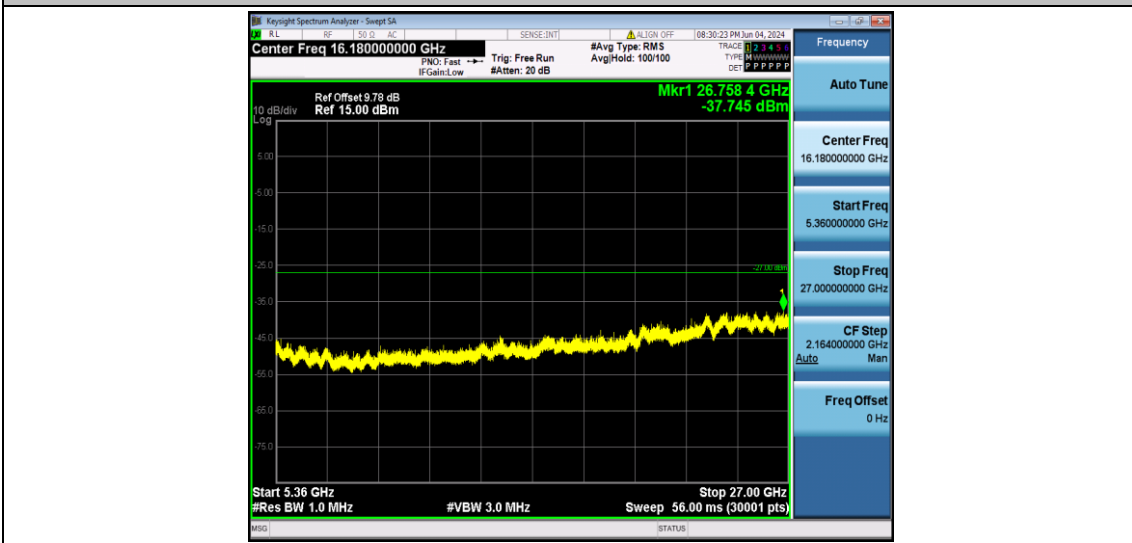
11N20SISO_Ant1_5280_5360~27000



11N20SISO_Ant1_5320_30~5140



11N20SISO_Ant1_5320_5360~27000



Appendix C.8: Emissions in Restricted Bands

Test Result

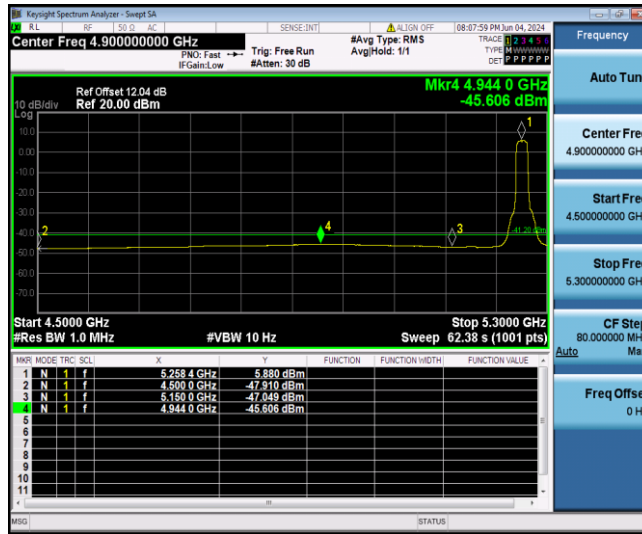
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5260	AV	4500.000	-47.91	≤-41.20	47.29	≤54	PASS
				AV	4944.000	-45.61	≤-41.20	49.59	≤54	PASS
				AV	5150.000	-47.05	≤-41.20	48.15	≤54	PASS
				Peak	4500.000	-43.4	≤-21.20	51.80	≤74	PASS
				Peak	4932.000	-36.96	≤-21.20	58.24	≤74	PASS
				Peak	5150.000	-41.56	≤-21.20	53.64	≤74	PASS
		High	5320	AV	5350.000	-46.54	≤-41.20	48.66	≤54	PASS
				AV	5453.600	-46.25	≤-41.20	48.95	≤54	PASS
				AV	5460.000	-46.28	≤-41.20	48.92	≤54	PASS
				Peak	5350.000	-42.17	≤-21.20	53.03	≤74	PASS
				Peak	5352.000	-38.95	≤-21.20	56.25	≤74	PASS
				Peak	5460.000	-40.8	≤-21.20	54.40	≤74	PASS
11N20SIS O	Ant1	Low	5260	AV	4500.000	-47.92	≤-41.20	47.28	≤54	PASS
				AV	4944.800	-45.61	≤-41.20	49.59	≤54	PASS
				AV	5150.000	-47.04	≤-41.20	48.16	≤54	PASS
				Peak	4500.000	-43.56	≤-21.20	51.64	≤74	PASS
				Peak	4668.800	-36.63	≤-21.20	58.57	≤74	PASS
				Peak	5150.000	-41.96	≤-21.20	53.24	≤74	PASS
		High	5320	AV	5350.000	-46.78	≤-41.20	48.42	≤54	PASS
				AV	5454.400	-46.24	≤-41.20	48.96	≤54	PASS
				AV	5460.000	-46.28	≤-41.20	48.92	≤54	PASS
				Peak	5350.000	-44.75	≤-21.20	50.45	≤74	PASS
				Peak	5448.800	-38.98	≤-21.20	56.22	≤74	PASS
				Peak	5460.000	-42.48	≤-21.20	52.72	≤74	PASS

Note:

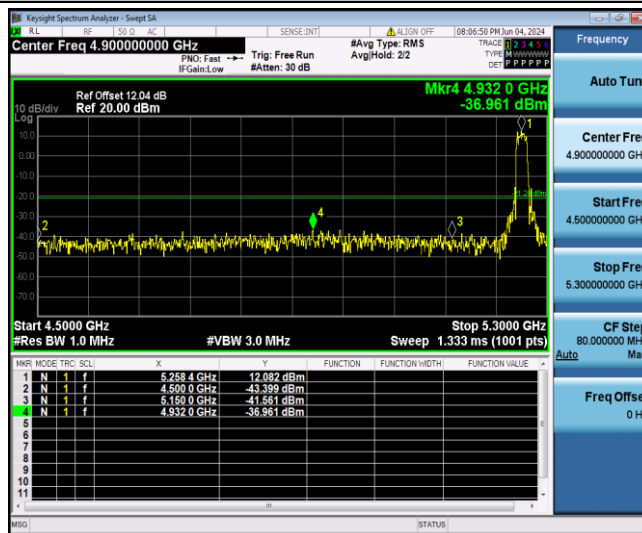
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm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

Test Graphs

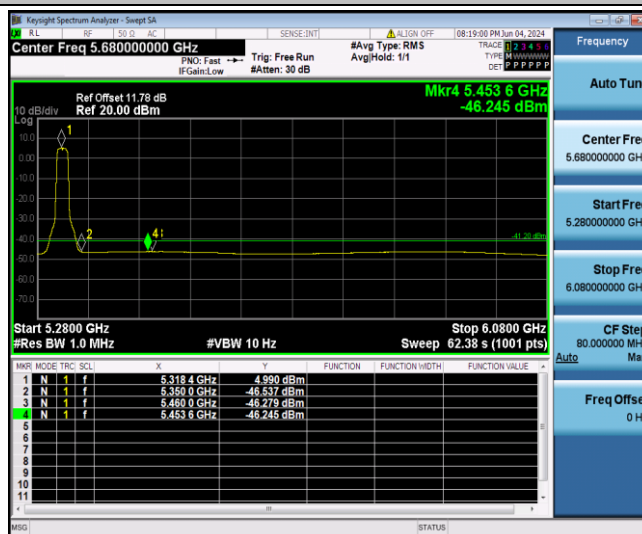
11A_Ant1_Low_5260_AV



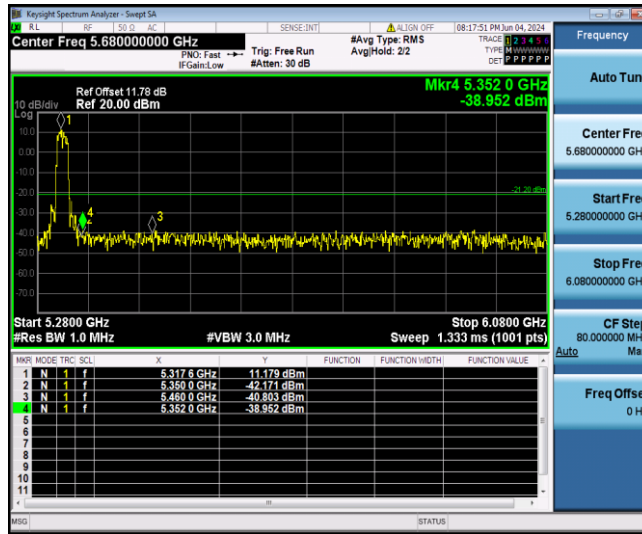
11A_Ant1_Low_5260_Peak



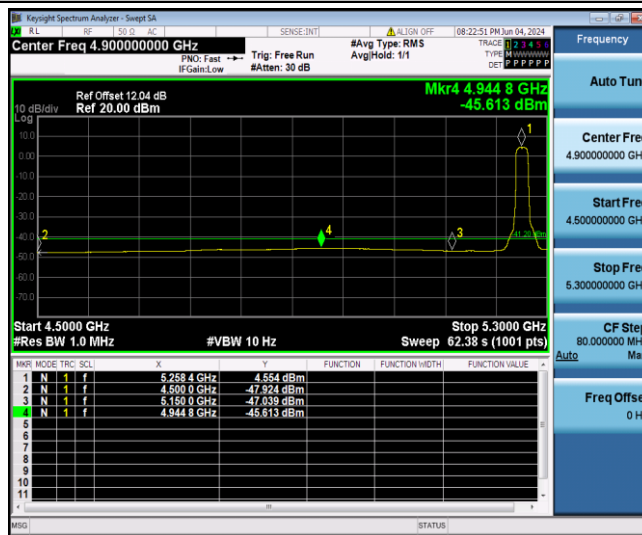
11A_Ant1_High_5320_AV



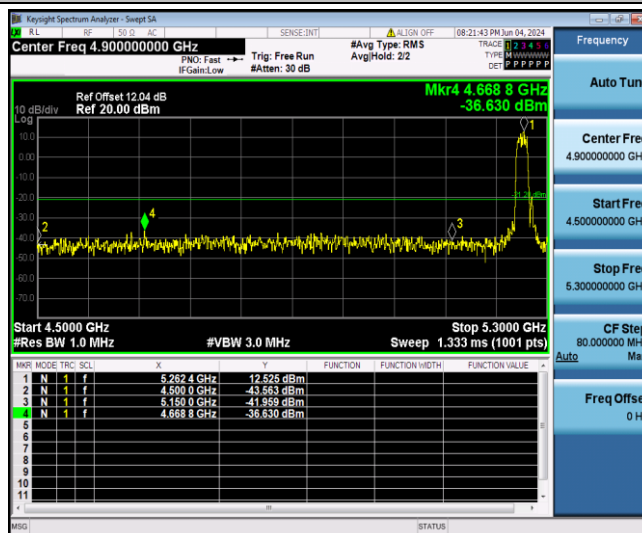
11A_Ant1_High_5320_Peak



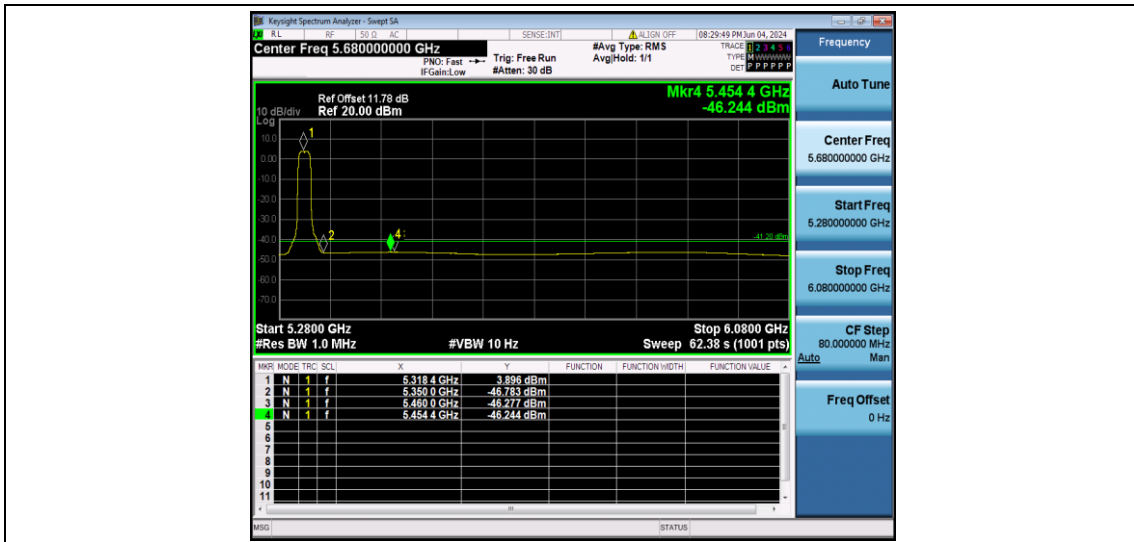
11N20SISO_Ant1_Low_5260_AV



11N20SISO_Ant1_Low_5260_Peak



11N20SISO_Ant1_High_5320_AV



11N20SISO_Ant1_High_5320_Peak

