

Case No. : <u>GTS20241121026-1-04</u>	
Ambient Condition: <u>22</u> °C, <u>56</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.12.2</u>	Test Engineer: <u>Evan ouyang</u>

Appendix E.1: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.600	5816.200	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.520	5816.240	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC80SISO	Ant1	5775	76.320	5736.760	5813.080	0.5	PASS

Test Graphs B4

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



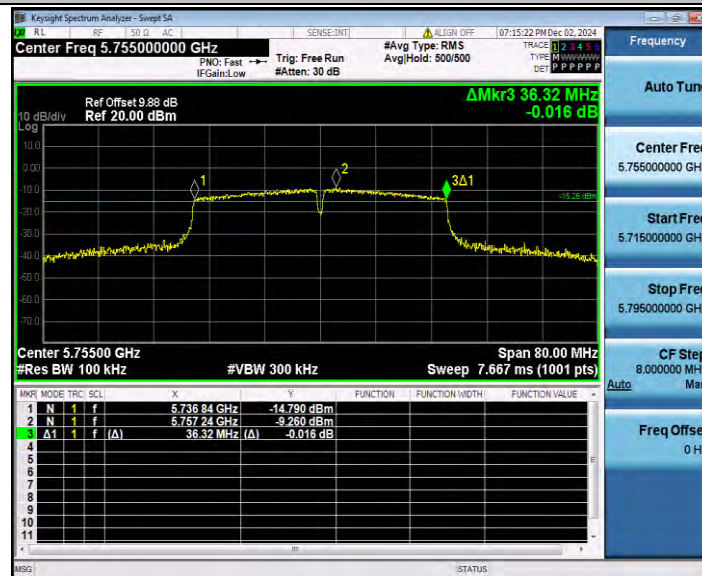
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



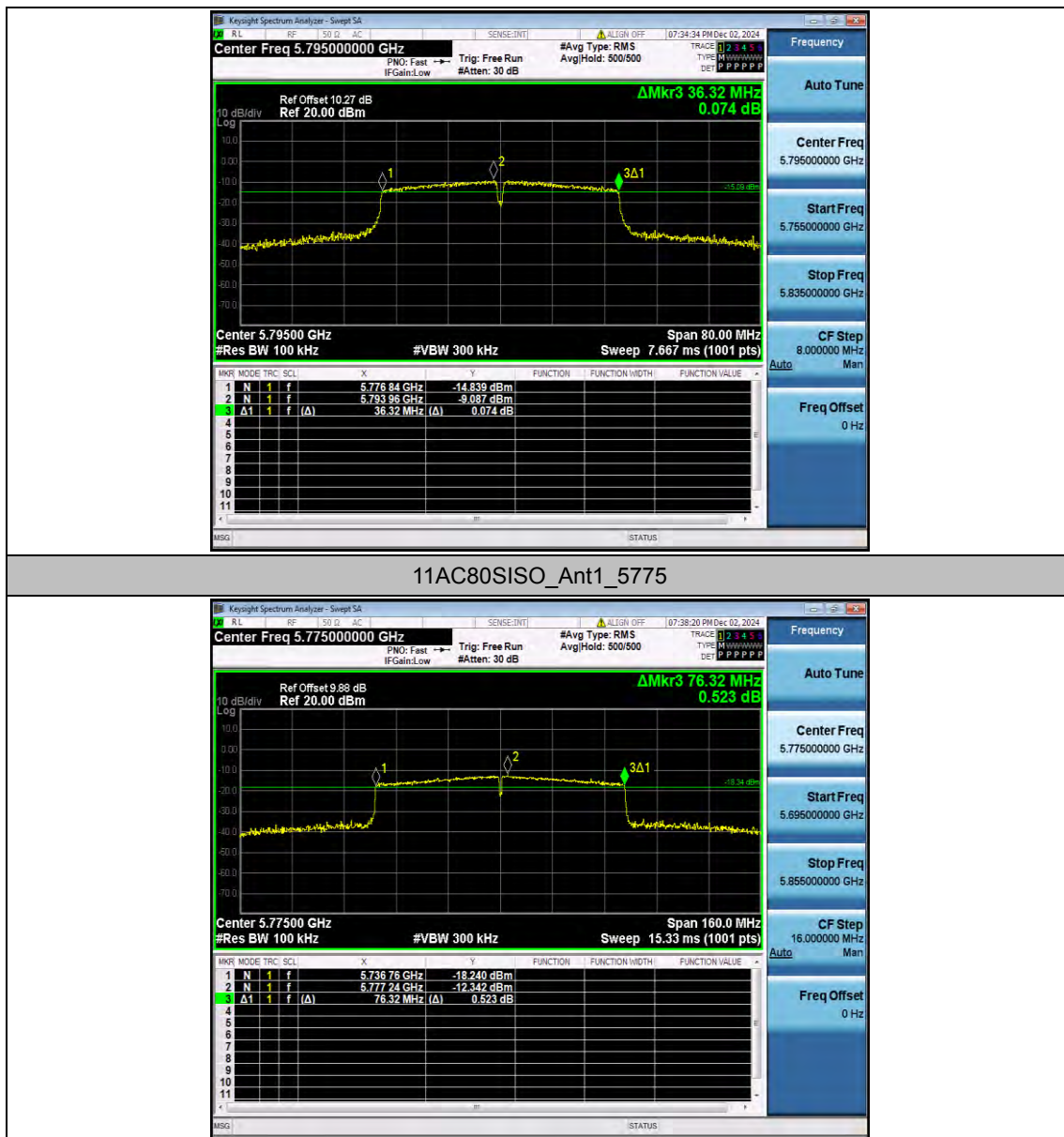
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



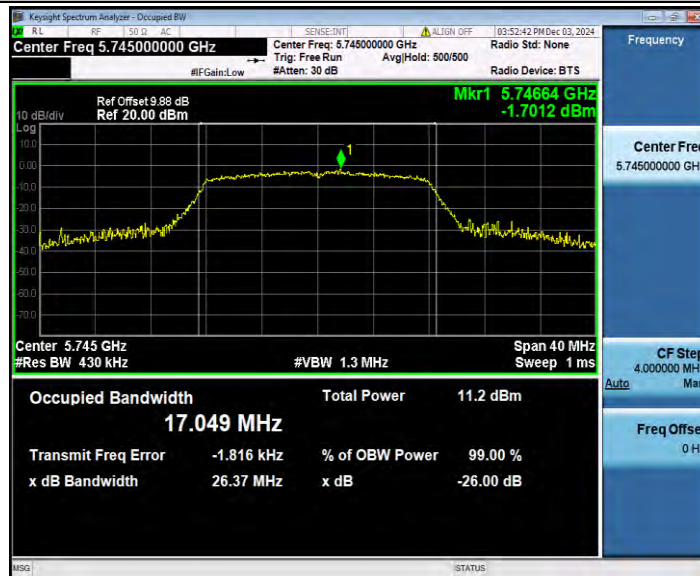
Appendix E.2: Occupied channel bandwidth

Test Result

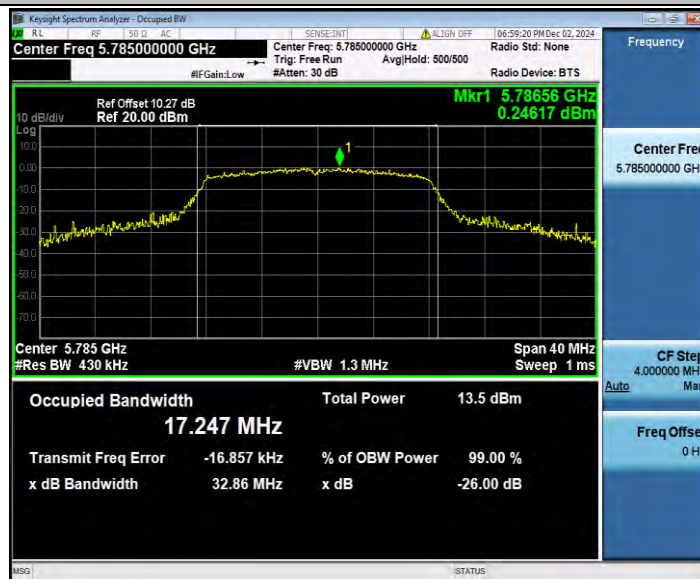
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.049	5736.4737	5753.5227	---	---
		5785	17.247	5776.3596	5793.6066	---	---
		5825	17.357	5816.4055	5833.7625	---	---
11N20SISO	Ant1	5745	18.161	5735.9253	5754.0863	---	---
		5785	18.135	5775.9205	5794.0555	---	---
		5825	18.173	5815.9768	5834.1498	---	---
11N40SISO	Ant1	5755	36.895	5736.6232	5773.5182	---	---
		5795	36.853	5776.6142	5813.4672	---	---
11AC20SISO	Ant1	5745	18.161	5735.9257	5754.0867	---	---
		5785	18.195	5775.8784	5794.0734	---	---
		5825	18.237	5815.9604	5834.1974	---	---
11AC40SISO	Ant1	5755	36.906	5736.5591	5773.4651	---	---
		5795	36.831	5776.6335	5813.4645	---	---
11AC80SISO	Ant1	5775	76.114	5737.0338	5813.1478	---	---

Test Graphs

11A_Ant1_5745



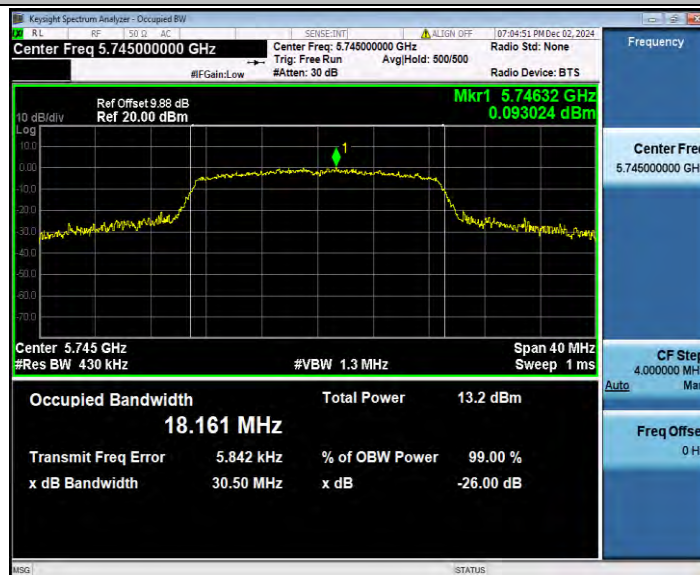
11A_Ant1_5785



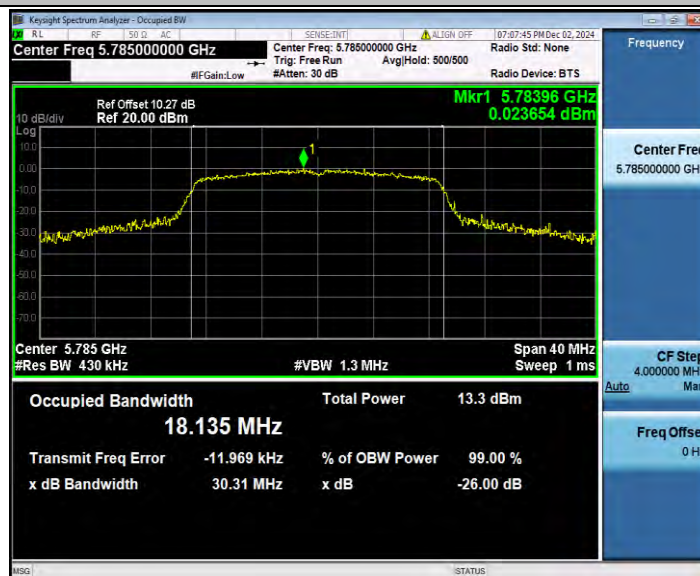
11A_Ant1_5825



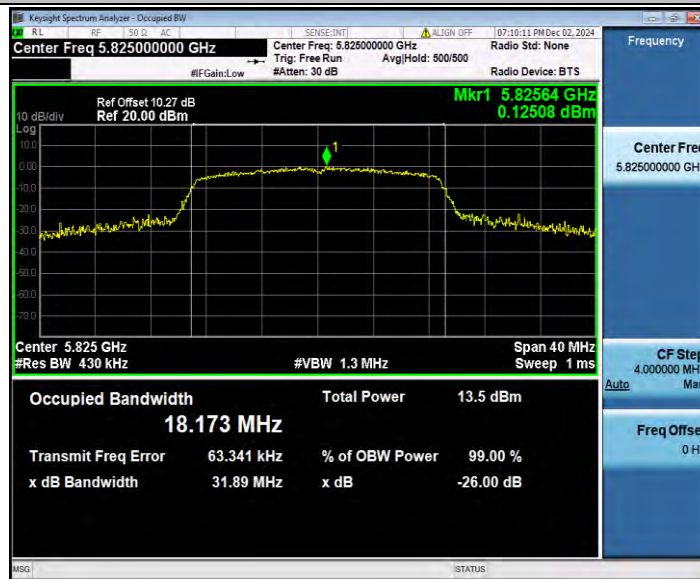
11N20SISO_Ant1_5745



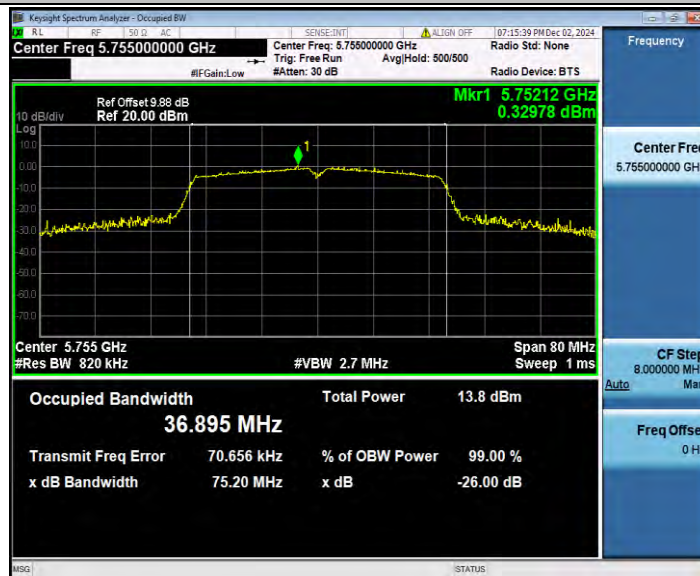
11N20SISO_Ant1_5785



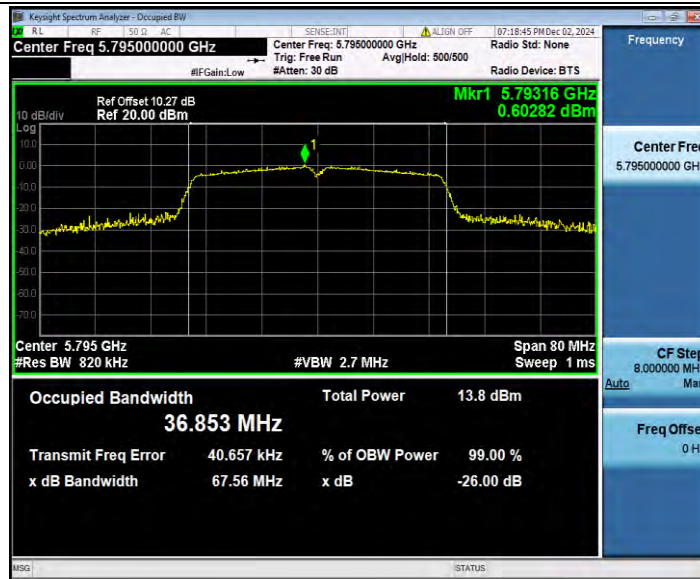
11N20SISO_Ant1_5825



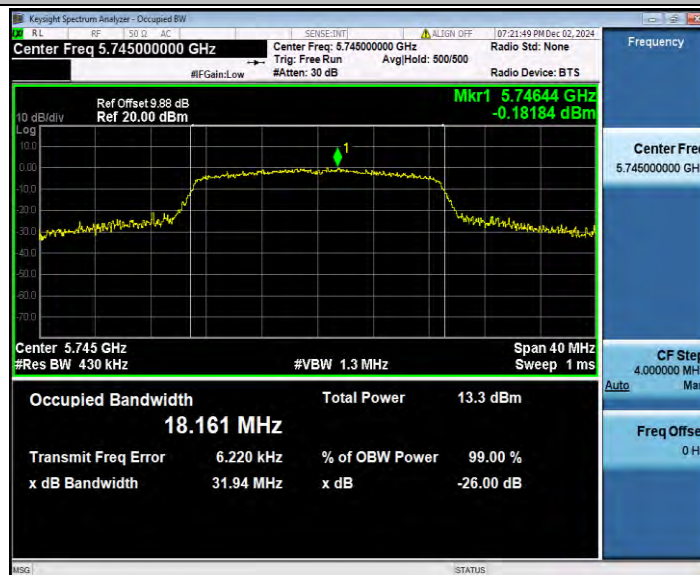
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



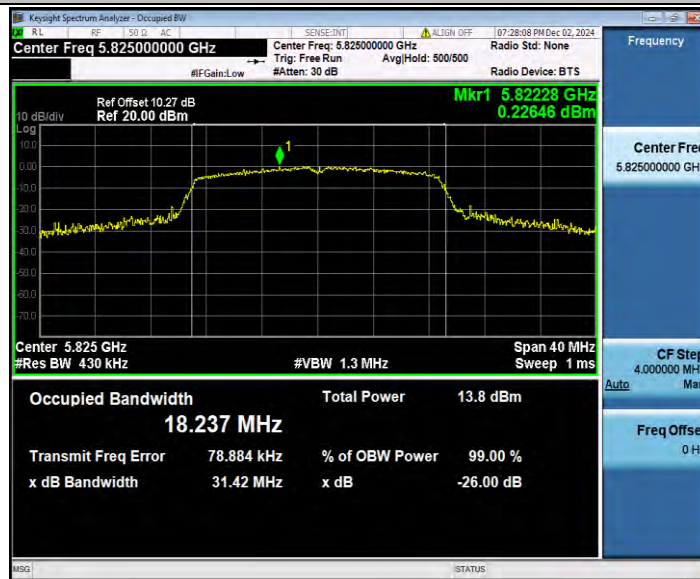
11AC20SISO_Ant1_5745



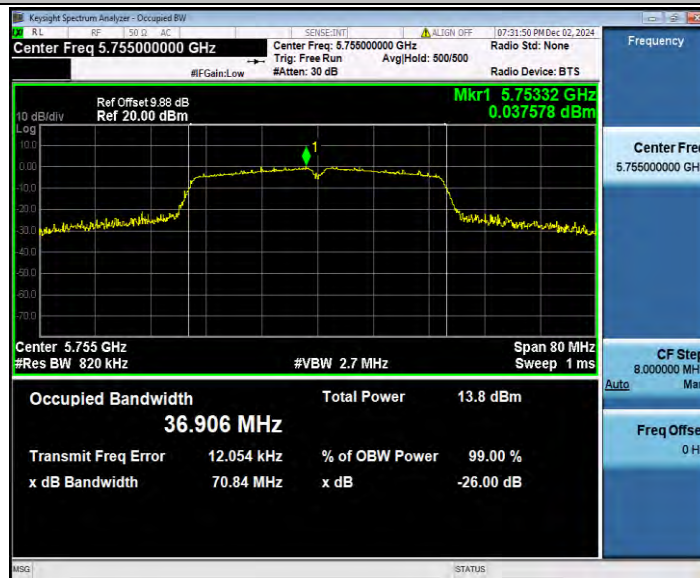
11AC20SISO_Ant1_5785



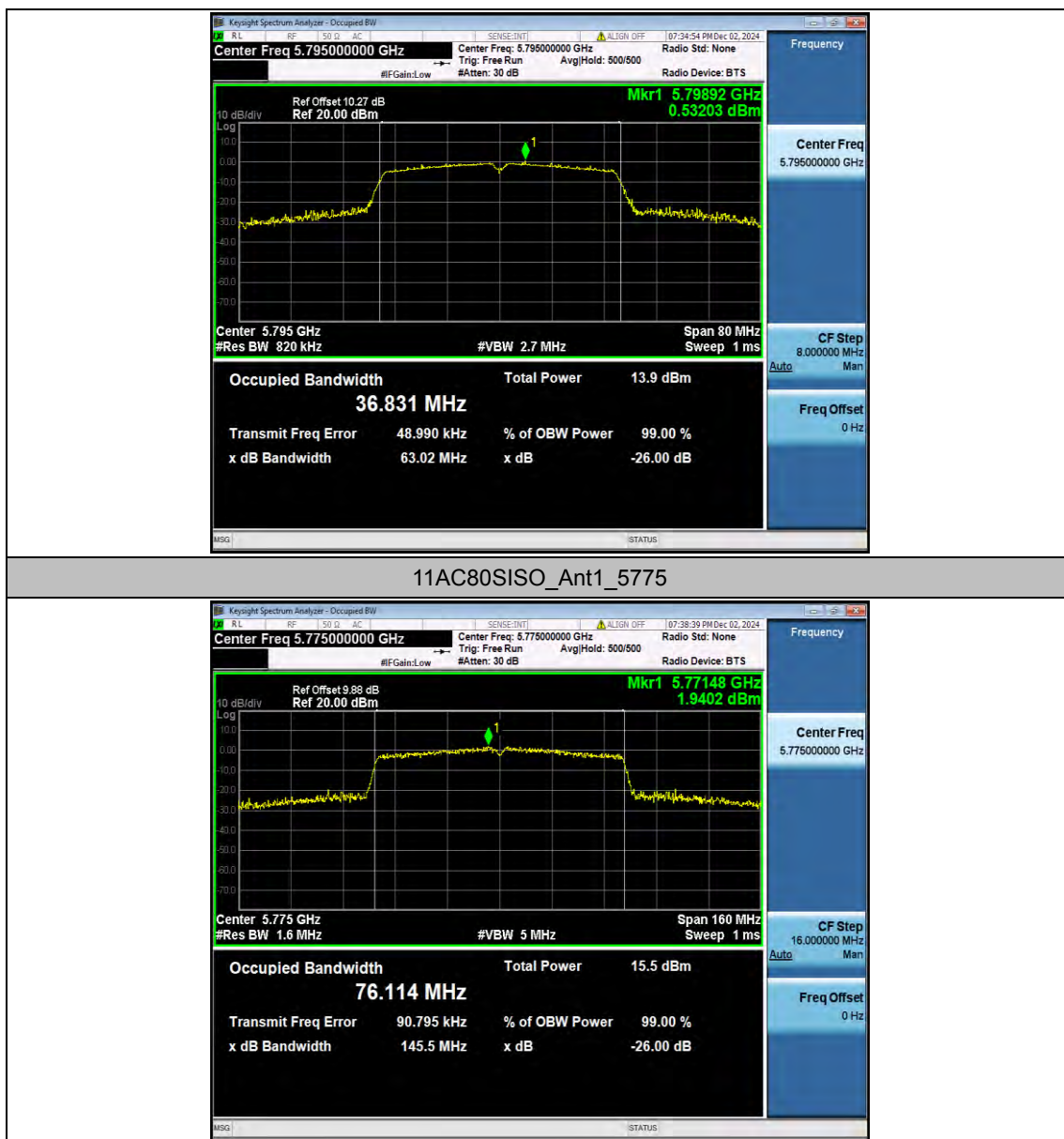
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

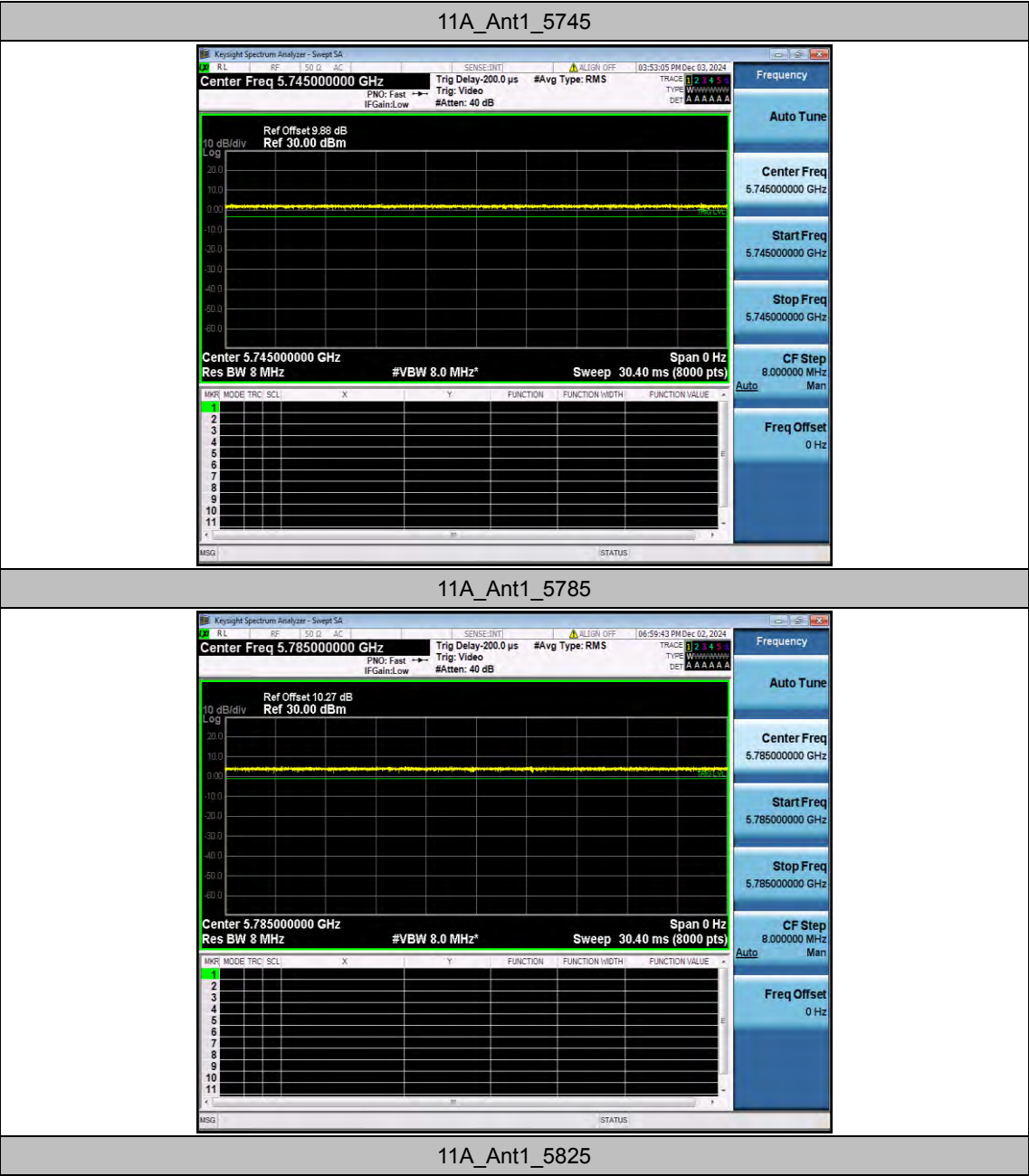


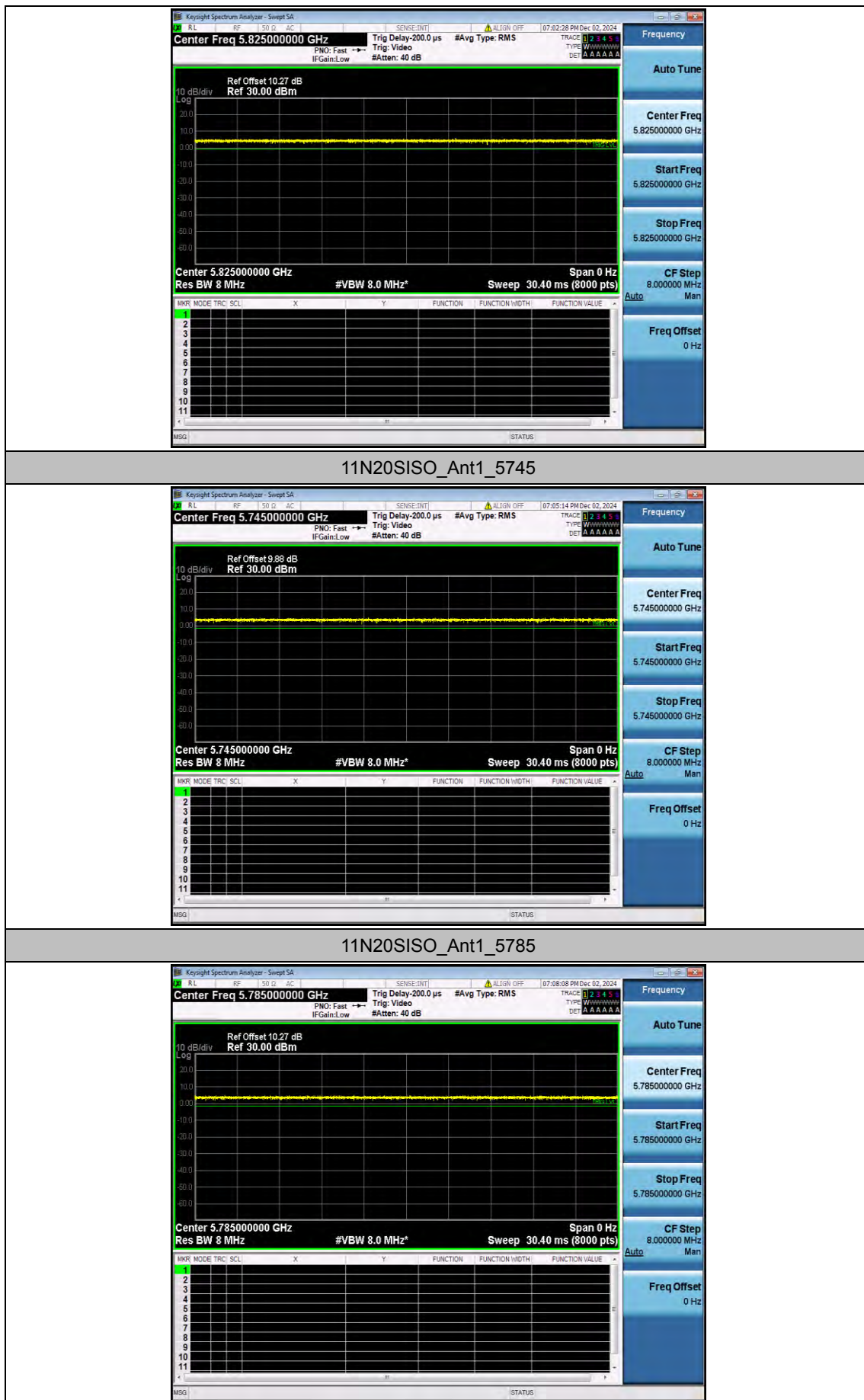
Appendix E.3: Duty Cycle

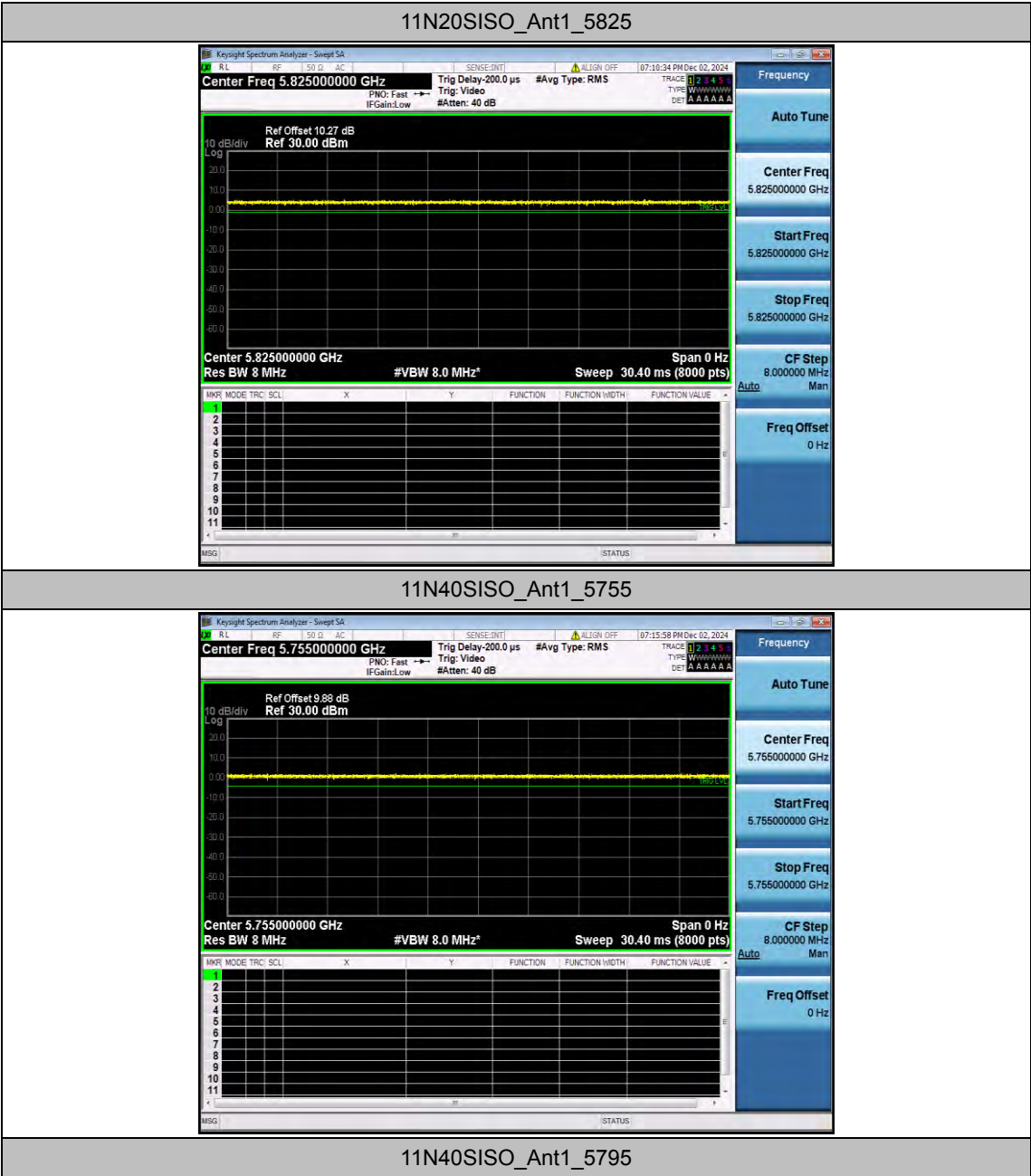
Test Result

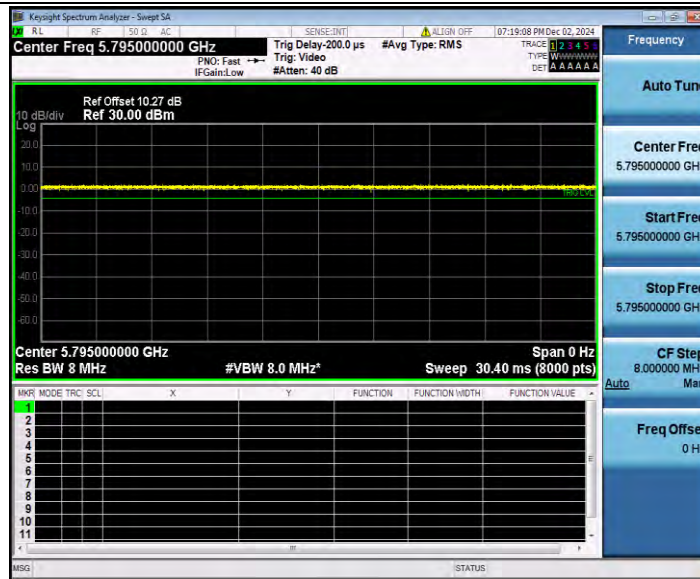
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11AC40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5775	30.00	30.00	100.00	0.00	0.03

Test Graphs

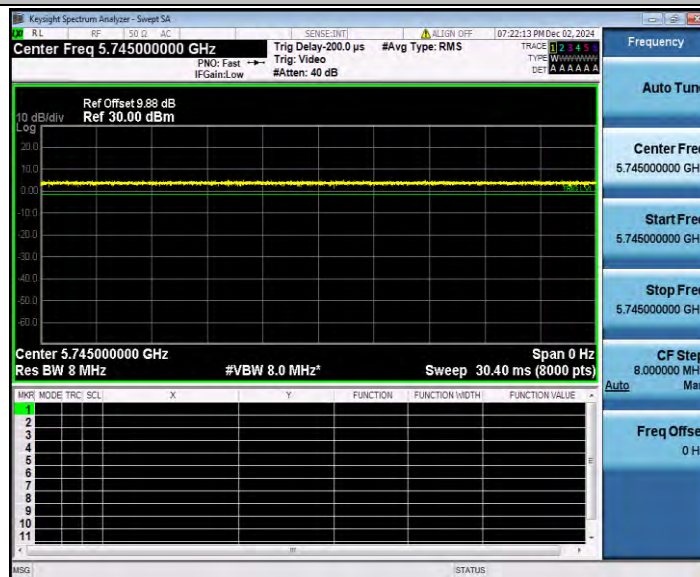




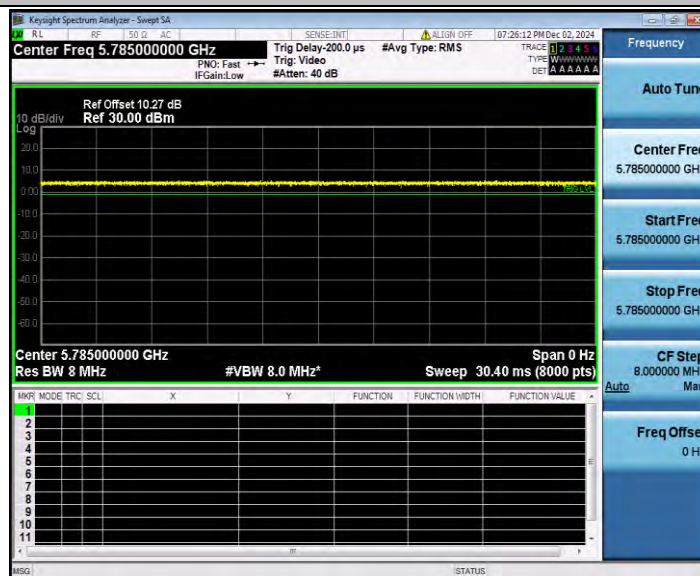




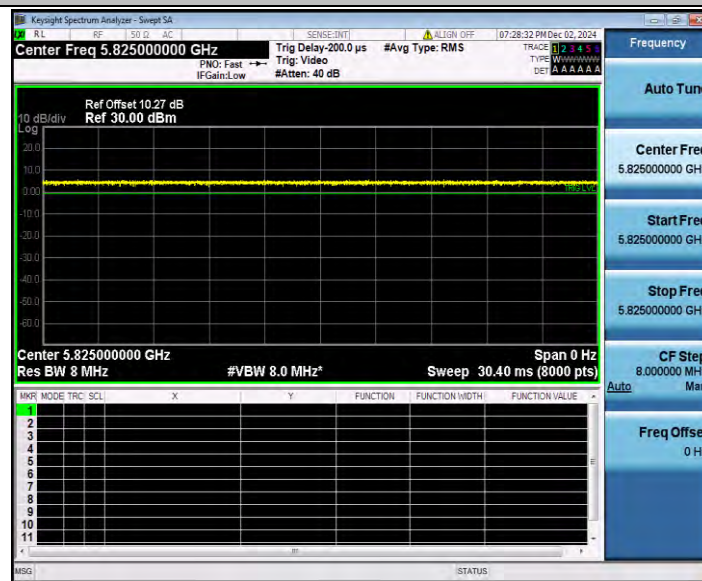
11AC20SISO_Ant1_5745



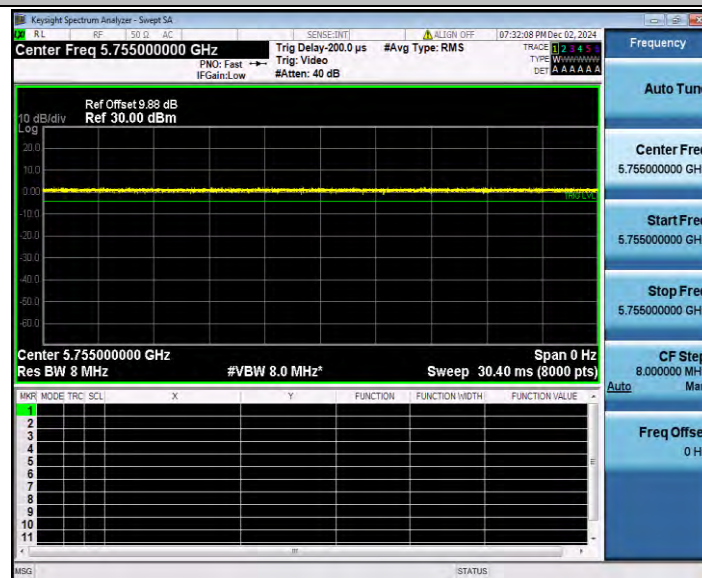
11AC20SISO_Ant1_5785



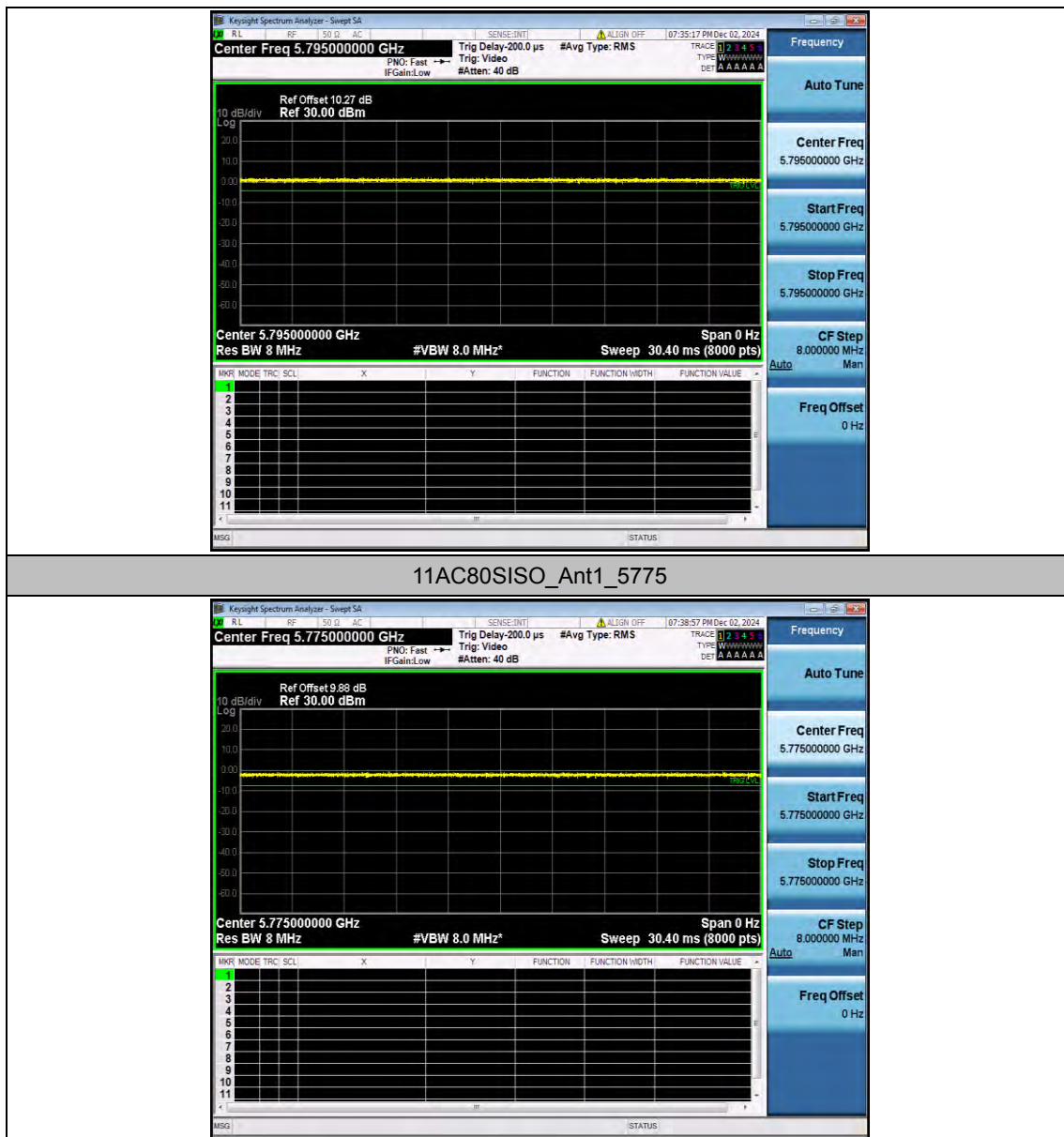
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.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	5745	4.41	100.00	0.00	4.41	≤30.00	PASS
		5785	6.55	100.00	0.00	6.55	≤30.00	PASS
		5825	6.87	100.00	0.00	6.87	≤30.00	PASS
11N20SISO	Ant1	5745	6.33	100.00	0.00	6.33	≤30.00	PASS
		5785	6.51	100.00	0.00	6.51	≤30.00	PASS
		5825	6.71	100.00	0.00	6.71	≤30.00	PASS
11N40SISO	Ant1	5755	6.44	100.00	0.00	6.44	≤30.00	PASS
		5795	6.48	100.00	0.00	6.48	≤30.00	PASS
11AC20SISO	Ant1	5745	6.46	100.00	0.00	6.46	≤30.00	PASS
		5785	6.77	100.00	0.00	6.77	≤30.00	PASS
		5825	6.09	100.00	0.00	6.09	≤30.00	PASS
11AC40SISO	Ant1	5755	6.43	100.00	0.00	6.43	≤30.00	PASS
		5795	6.50	100.00	0.00	6.50	≤30.00	PASS
11AC80SISO	Ant1	5775	6.58	100.00	0.00	6.58	≤30.00	PASS

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-8.98	≤30.00	PASS
		5785	-6.75	≤30.00	PASS
		5825	-6.25	≤30.00	PASS
11N20SISO	Ant1	5745	-7.26	≤30.00	PASS
		5785	-7.12	≤30.00	PASS
		5825	-6.80	≤30.00	PASS
11N40SISO	Ant1	5755	-9.95	≤30.00	PASS
		5795	-9.77	≤30.00	PASS
11AC20SISO	Ant1	5745	-7.07	≤30.00	PASS
		5785	-6.69	≤30.00	PASS
		5825	-6.32	≤30.00	PASS
11AC40SISO	Ant1	5755	-9.95	≤30.00	PASS
		5795	-9.78	≤30.00	PASS
11AC80SISO	Ant1	5775	-13.19	≤30.00	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_5745



11A_Ant1_5785



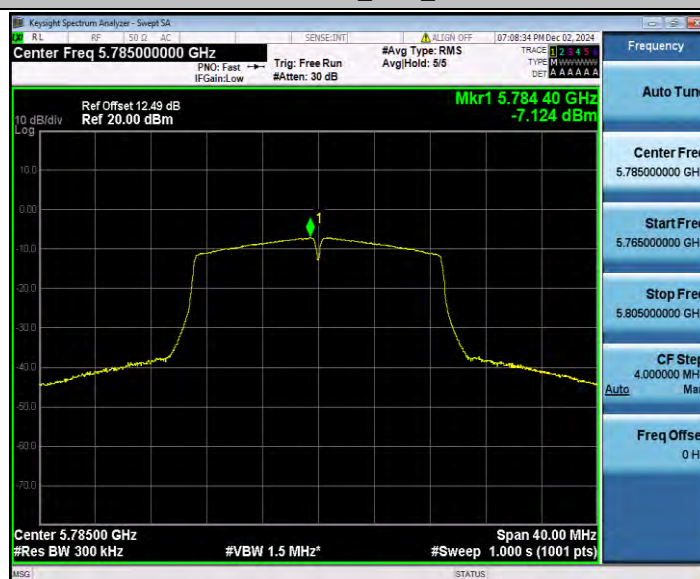
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



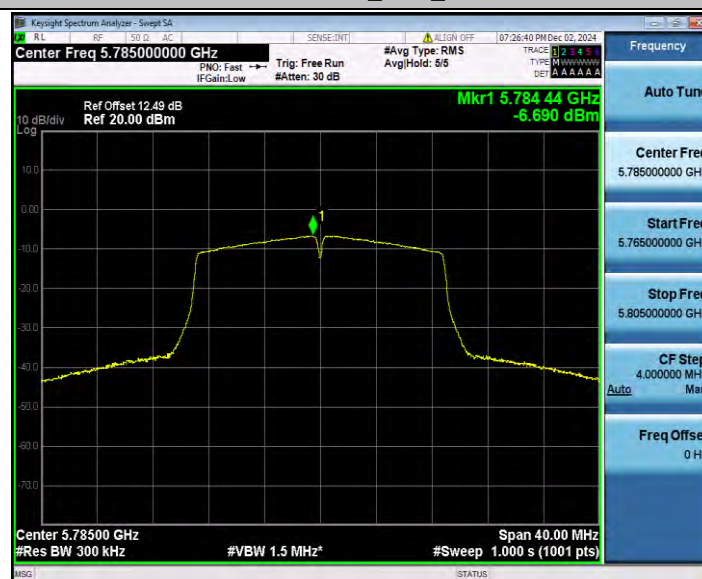
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.24	≤-26.70	PASS
				5700~5720	-38.96	≤10.47	PASS
				5720~5725	-36.62	≤16.08	PASS
				5760~5650	-39.44	≤-27	PASS
		High	5825	5850~5855	-34.66	≤15.73	PASS
				5855~5875	-35	≤12.10	PASS
				5875~5925	-38.4	≤-26.31	PASS
				5925~5935	-38.57	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-39.76	≤-26.70	PASS
				5700~5720	-32.19	≤15.05	PASS
				5720~5725	-31.01	≤18.18	PASS
				5760~5650	-39.42	≤-27	PASS
		High	5825	5850~5855	-34.21	≤16.96	PASS
				5855~5875	-38.3	≤10.47	PASS
				5875~5925	-38.68	≤-26.81	PASS
				5925~5935	-38	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-40.02	≤-26.20	PASS
				5700~5720	-25.62	≤14.90	PASS
				5720~5725	-27.62	≤15.74	PASS
				5780~5650	-39.69	≤-27	PASS
		High	5795	5850~5855	-35.11	≤16.79	PASS
				5855~5875	-36.7	≤10.80	PASS
				5875~5925	-38.12	≤-25.98	PASS
				5925~5935	-38.02	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.14	≤-26.45	PASS
				5700~5720	-31.37	≤14.40	PASS
				5720~5725	-28.9	≤17.65	PASS
				5760~5650	-39.18	≤-27	PASS
		High	5825	5850~5855	-33.18	≤15.73	PASS
				5855~5875	-31.46	≤14.94	PASS
				5875~5925	-38.34	≤-26.91	PASS
				5925~5935	-37.91	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.64	≤-26.90	PASS
				5700~5720	-25.61	≤15.20	PASS
				5720~5725	-26.93	≤16.66	PASS
				5780~5650	-39.14	≤-27	PASS

		High	5795	5850~5855	-35.81	≤ 15.66	PASS
				5855~5875	-37.21	≤ 10.43	PASS
				5875~5925	-39.54	≤ -26.83	PASS
				5925~5935	-38.02	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.72	≤ -26.80	PASS
				5700~5720	-27.36	≤ 10.09	PASS
				5720~5725	-25.38	≤ 17.77	PASS
				5800~5650	-38.22	≤ -27	PASS
		High	5775	5850~5855	-30.26	≤ 15.84	PASS
				5855~5875	-27.5	≤ 13.45	PASS
				5875~5925	-38.03	≤ -26.46	PASS
				5925~5935	-37.71	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



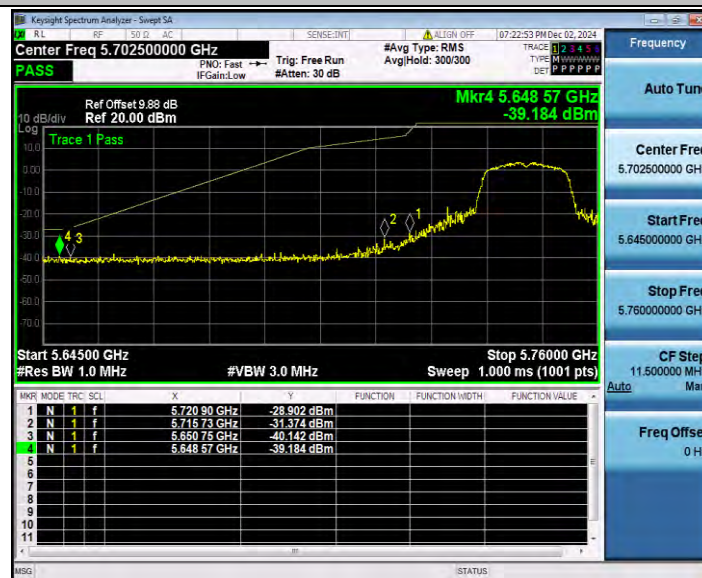
11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



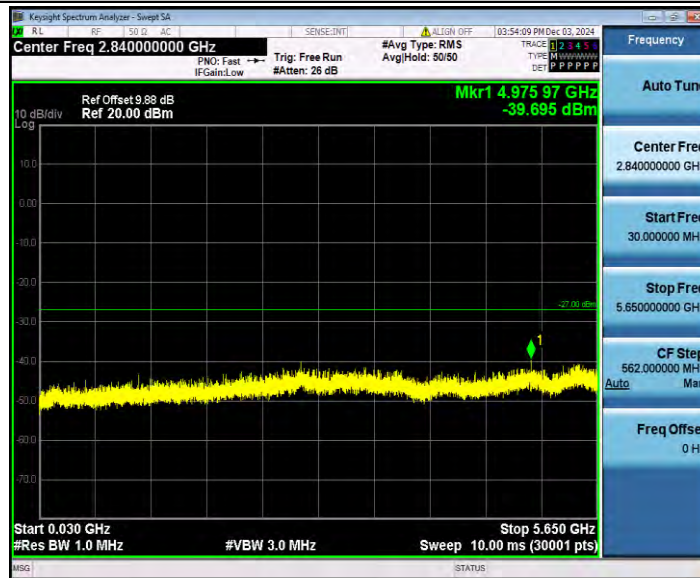
Appendix E.7: Conducted Spurious Emission

Test Result

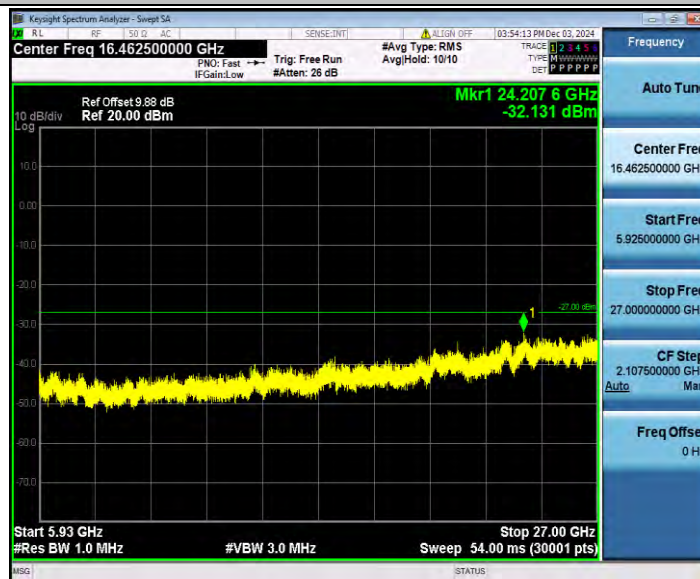
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	4975.97	-39.7	≤-27	PASS
			5925~27000	24207.56	-32.13	≤-27	PASS
		5785	30~5650	5418.83	-39.83	≤-27	PASS
			5925~27000	26086.75	-31.54	≤-27	PASS
		5825	30~5650	4984.4	-39.57	≤-27	PASS
			5925~27000	24244.8	-31.13	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5491.52	-39.66	≤-27	PASS
			5925~27000	24892.5	-31.8	≤-27	PASS
		5785	30~5650	5479.71	-39.4	≤-27	PASS
			5925~27000	24238.47	-31.1	≤-27	PASS
		5825	30~5650	5490.39	-39.63	≤-27	PASS
			5925~27000	23648.37	-31.42	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5455.92	-39.54	≤-27	PASS
			5925~27000	25217.06	-32.13	≤-27	PASS
		5795	30~5650	5488.52	-39.61	≤-27	PASS
			5925~27000	26513.87	-31.66	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5444.68	-39.67	≤-27	PASS
			5925~27000	24272.19	-31.59	≤-27	PASS
		5785	30~5650	5384.92	-39.33	≤-27	PASS
			5925~27000	24234.26	-31.6	≤-27	PASS
		5825	30~5650	5490.2	-39.27	≤-27	PASS
			5925~27000	23486.8	-31.83	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	2648.36	-39.92	≤-27	PASS
			5925~27000	24227.23	-31.99	≤-27	PASS
		5795	30~5650	5504.25	-39.06	≤-27	PASS
			5925~27000	24298.89	-31.72	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5417.89	-39.3	≤-27	PASS
			5925~27000	26624.87	-31.75	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



11A_Ant1_5745_5925~27000



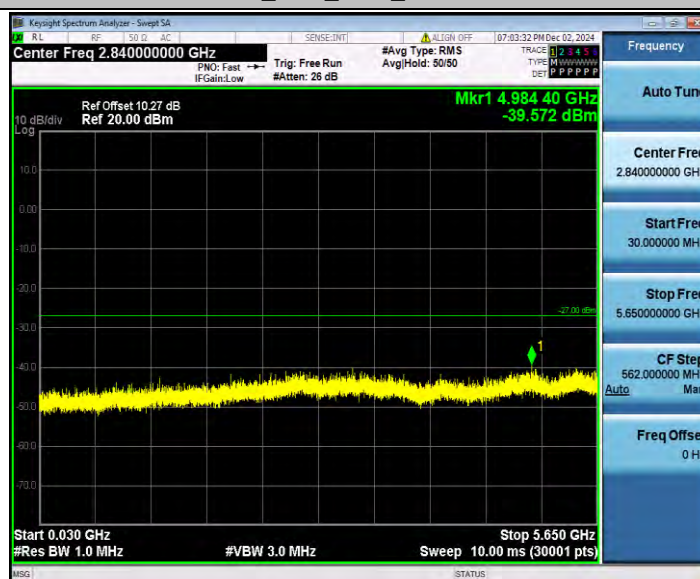
11A_Ant1_5785_30~5650



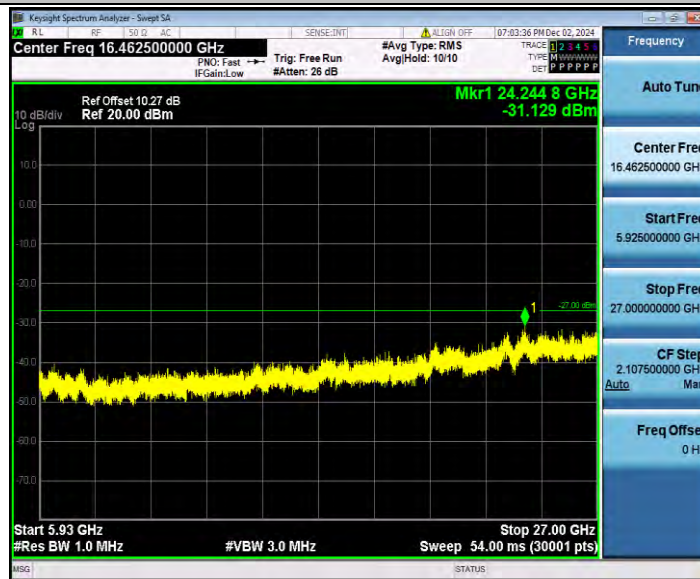
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



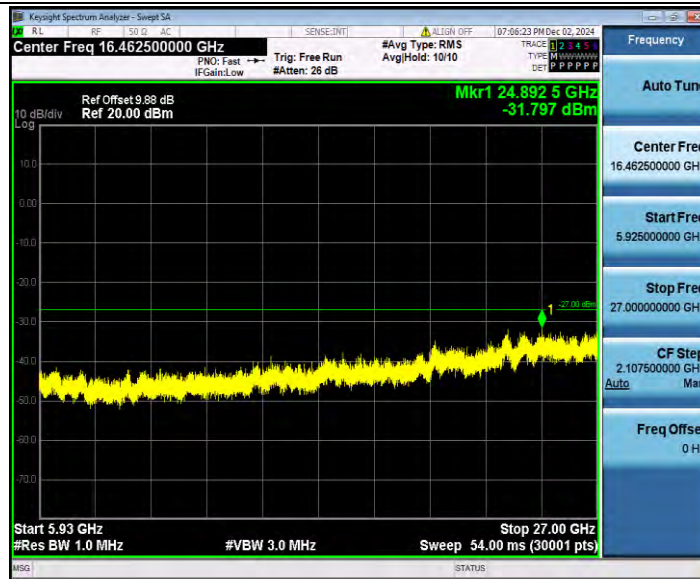
11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



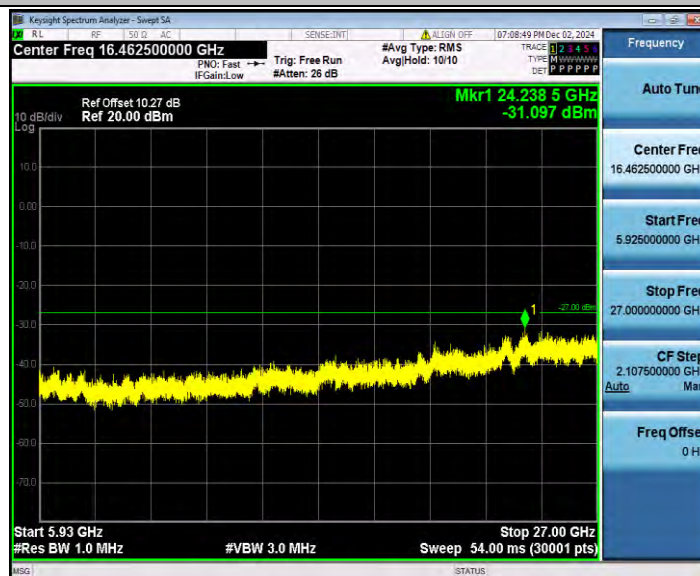
11N20SISO_Ant1_5745_5925~27000



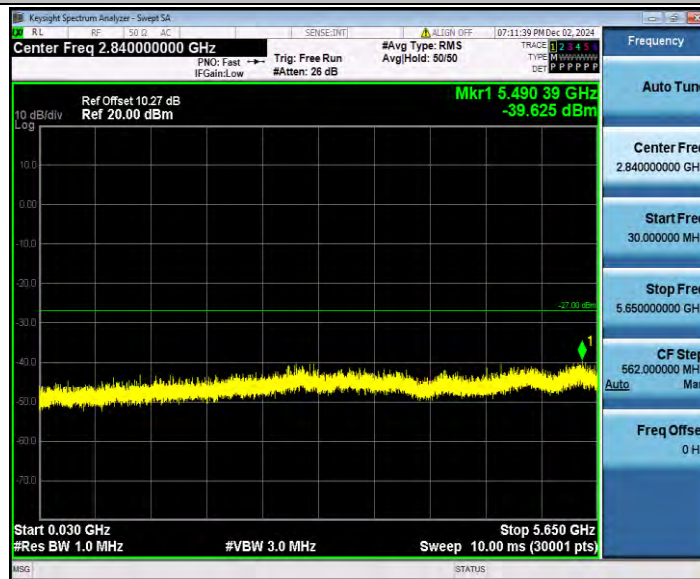
11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~27000



11N20SISO_Ant1_5825_30~5650



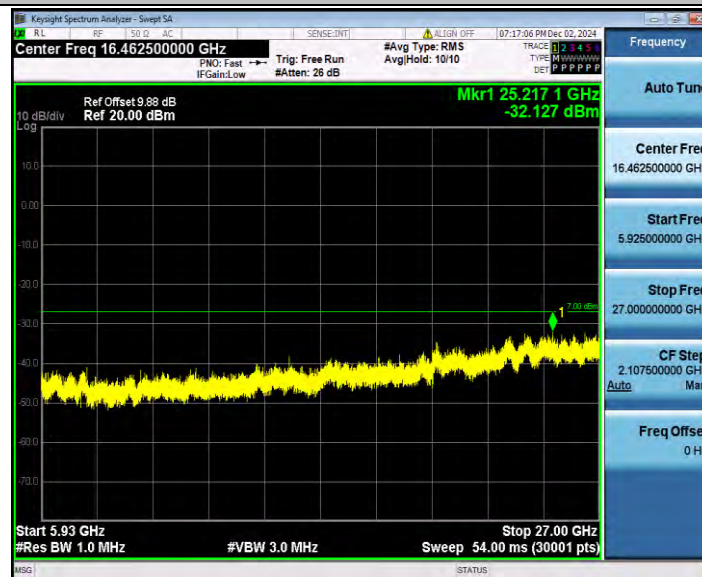
11N20SISO_Ant1_5825_5925~27000



11N40SISO_Ant1_5755_30~5650



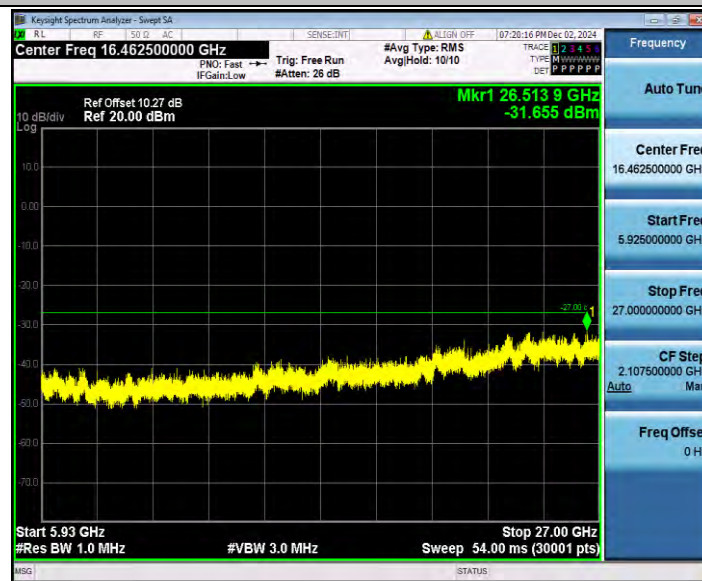
11N40SISO_Ant1_5755_5925~27000



11N40SISO_Ant1_5795_30~5650



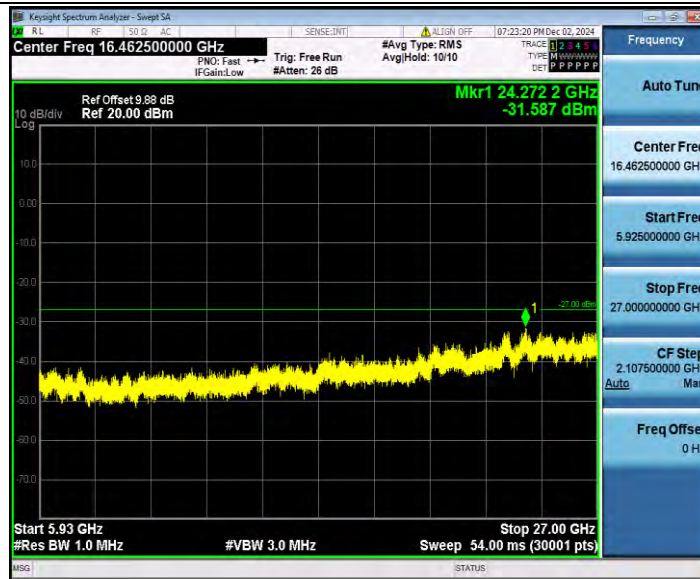
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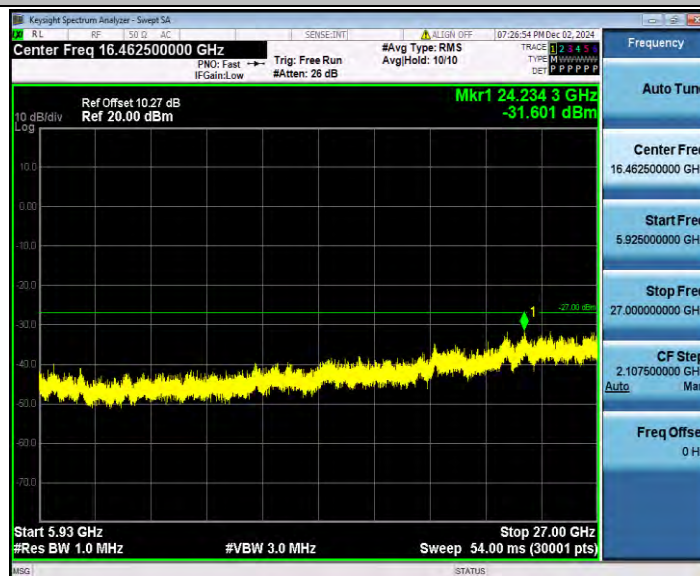
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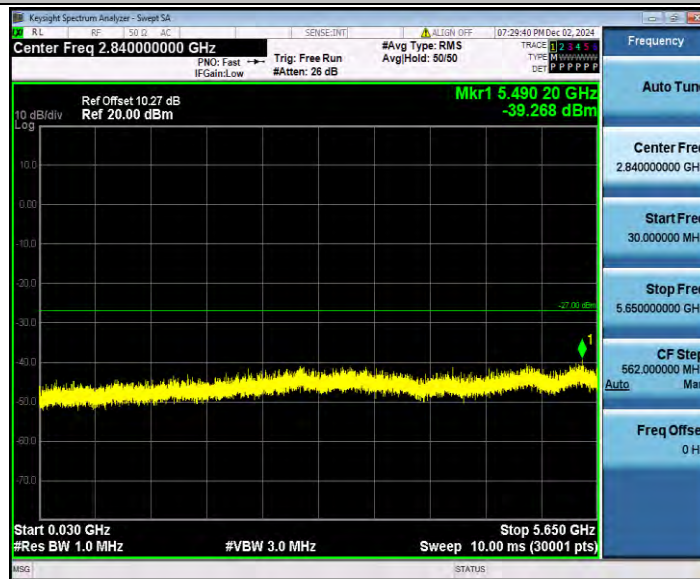
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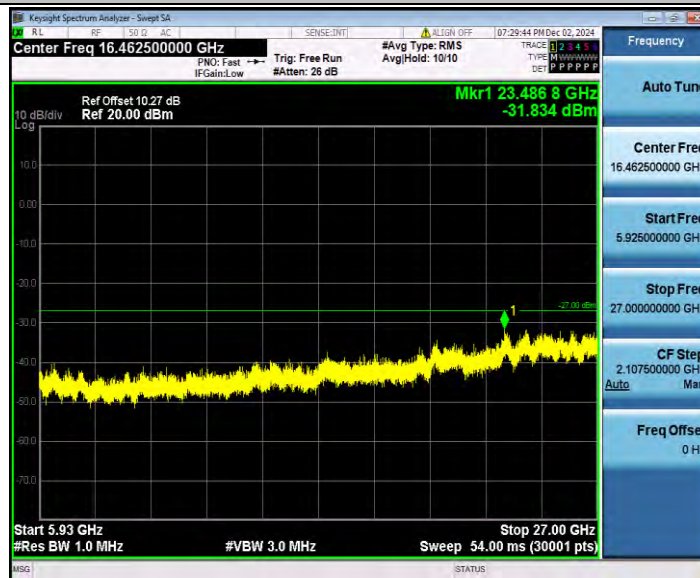
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11AC20SISO_Ant1_5825_30~5650



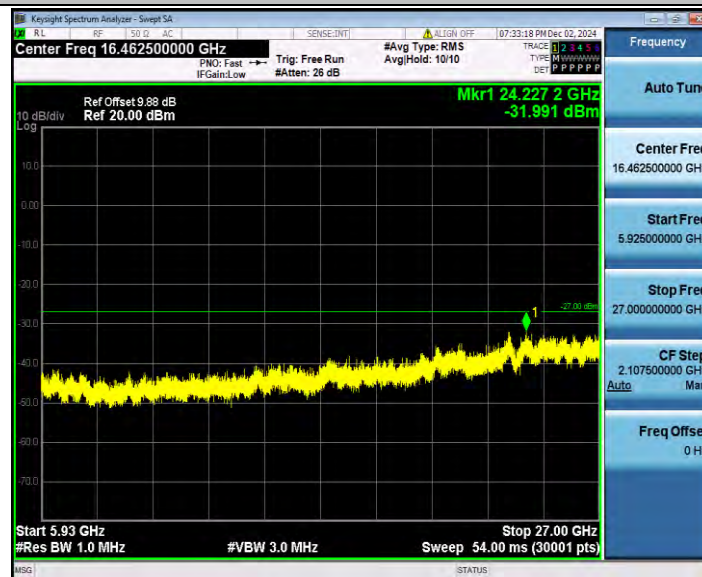
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11AC40SISO_Ant1_5755_30~5650



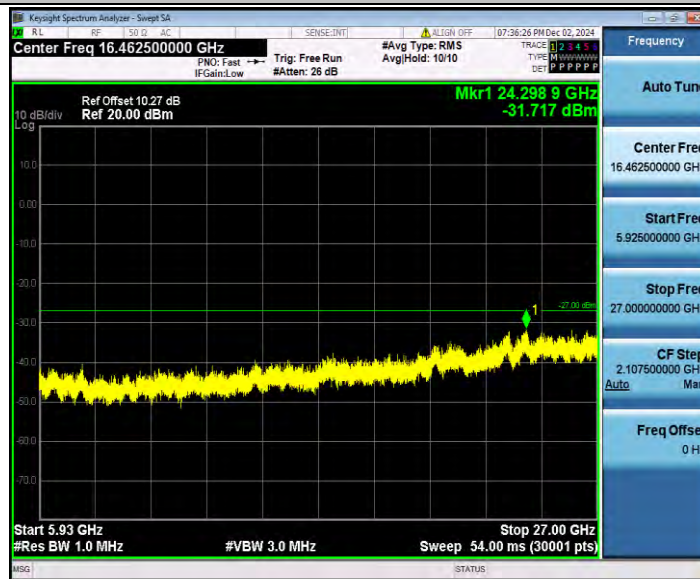
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11AC40SISO_Ant1_5795_30~5650



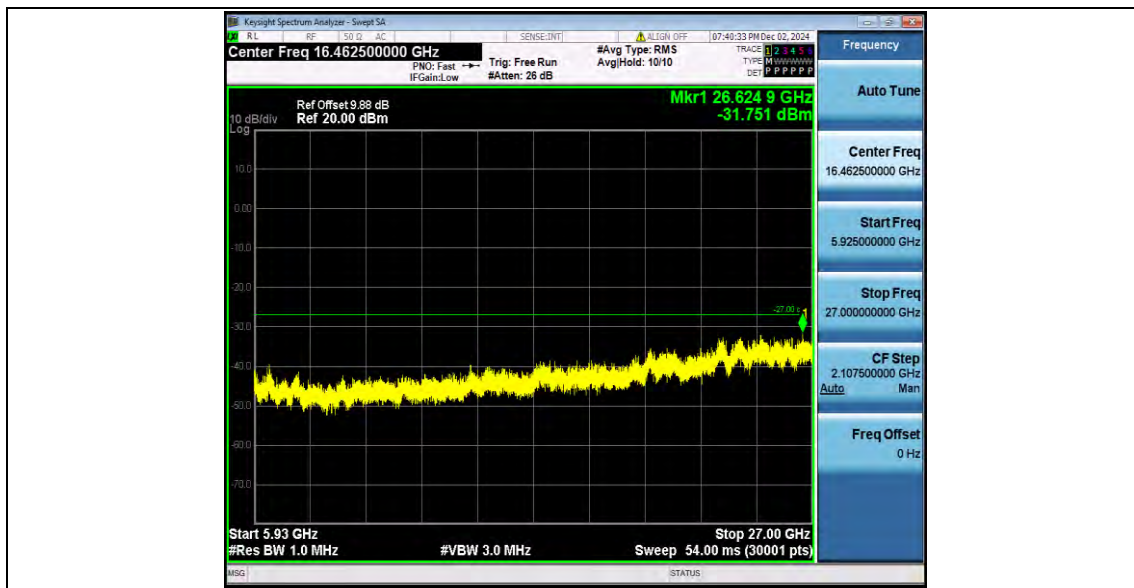
11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000



Appendix E.8: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.782	≤-27.00	PASS
				Peak	5700.000	-39.38	≤10.00	PASS
				Peak	5720.000	-38.73	≤15.60	PASS
				Peak	5725.000	-38.02	≤27.00	PASS
		High	5825	Peak	5850.000	-29.511	≤27.00	PASS
				Peak	5855.000	-34.29	≤15.60	PASS
				Peak	5875.000	-38.47	≤10.00	PASS
				Peak	5925.000	-37.39	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.788	≤-27.00	PASS
				Peak	5700.000	-41.18	≤10.00	PASS
				Peak	5720.000	-33.92	≤15.60	PASS
				Peak	5725.000	-24.4	≤27.00	PASS
		High	5825	Peak	5850.000	-31.628	≤27.00	PASS
				Peak	5855.000	-37.54	≤15.60	PASS
				Peak	5875.000	-39.49	≤10.00	PASS
				Peak	5925.000	-37.98	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-43.258	≤-27.00	PASS
				Peak	5700.000	-37.71	≤10.00	PASS
				Peak	5720.000	-33.56	≤15.60	PASS
				Peak	5725.000	-31.03	≤27.00	PASS
		High	5795	Peak	5850.000	-35.729	≤27.00	PASS
				Peak	5855.000	-36.43	≤15.60	PASS
				Peak	5875.000	-37.3	≤10.00	PASS
				Peak	5925.000	-39.92	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-41.766	≤-27.00	PASS
				Peak	5700.000	-42	≤10.00	PASS
				Peak	5720.000	-35.31	≤15.60	PASS
				Peak	5725.000	-32.05	≤27.00	PASS
		High	5825	Peak	5850.000	-31.97	≤27.00	PASS
				Peak	5855.000	-34.85	≤15.60	PASS
				Peak	5875.000	-39.53	≤10.00	PASS
				Peak	5925.000	-37.98	≤-27.00	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-40.53	≤-27.00	PASS
				Peak	5700.000	-39.54	≤10.00	PASS
				Peak	5720.000	-30.39	≤15.60	PASS
				Peak	5725.000	-29.01	≤27.00	PASS

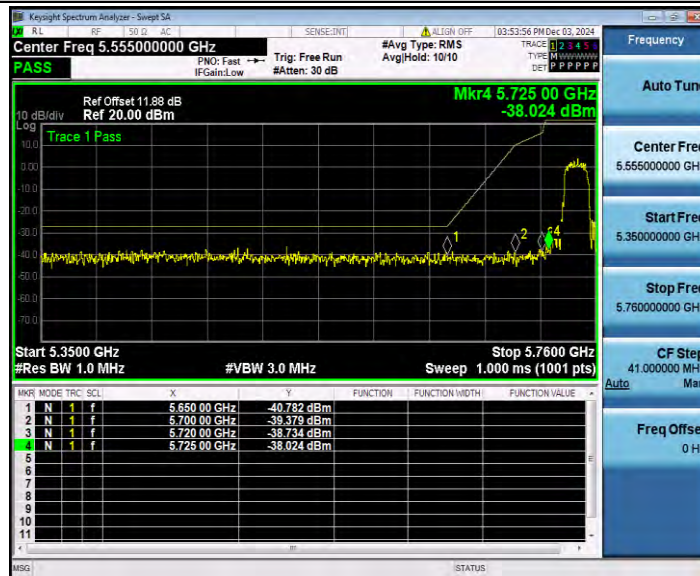
		High	5795	Peak	5850.000	-35.422	≤27.00	PASS
				Peak	5855.000	-35.07	≤15.60	PASS
				Peak	5875.000	-38.3	≤10.00	PASS
				Peak	5925.000	-36.17	≤-27.00	PASS
11AC80SISO	Ant1	Low	5775	Peak	5650.000	-36.907	≤-27.00	PASS
				Peak	5700.000	-33.37	≤10.00	PASS
				Peak	5720.000	-30.38	≤15.60	PASS
				Peak	5725.000	-27.4	≤27.00	PASS
		High	5775	Peak	5850.000	-28.591	≤27.00	PASS
				Peak	5855.000	-31.23	≤15.60	PASS
				Peak	5875.000	-34.53	≤10.00	PASS
				Peak	5925.000	-37.26	≤-27.00	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_5745_Peak



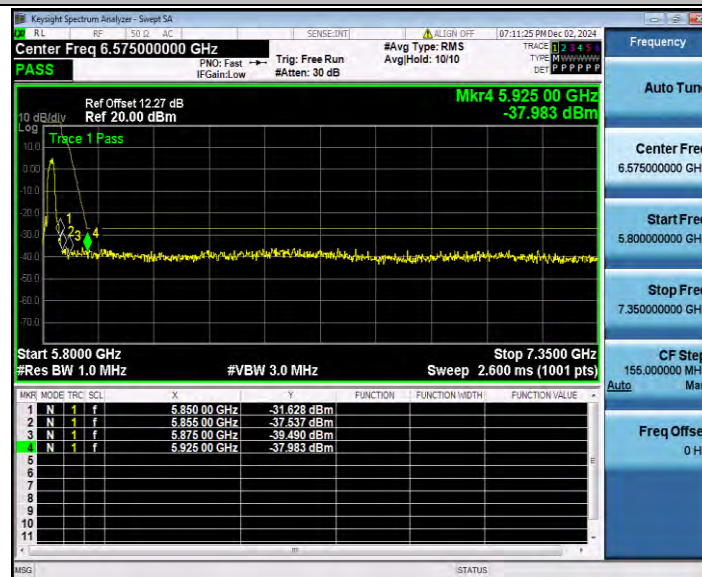
11A_Ant1_High_5825_Peak



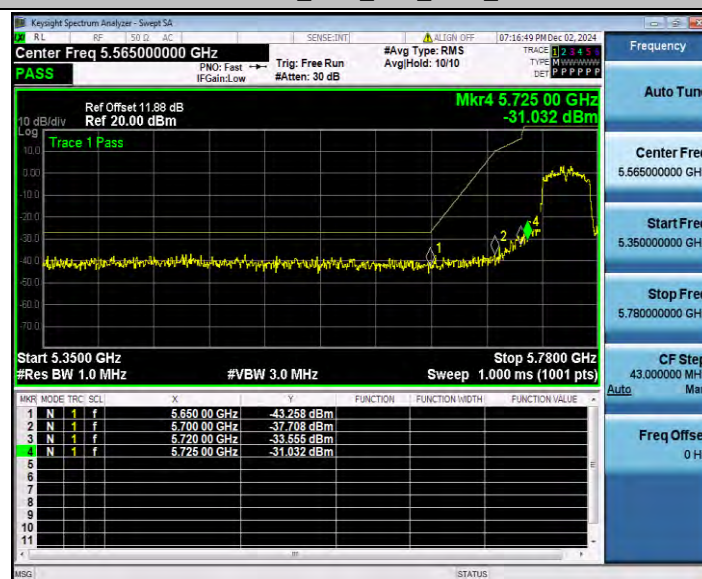
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak



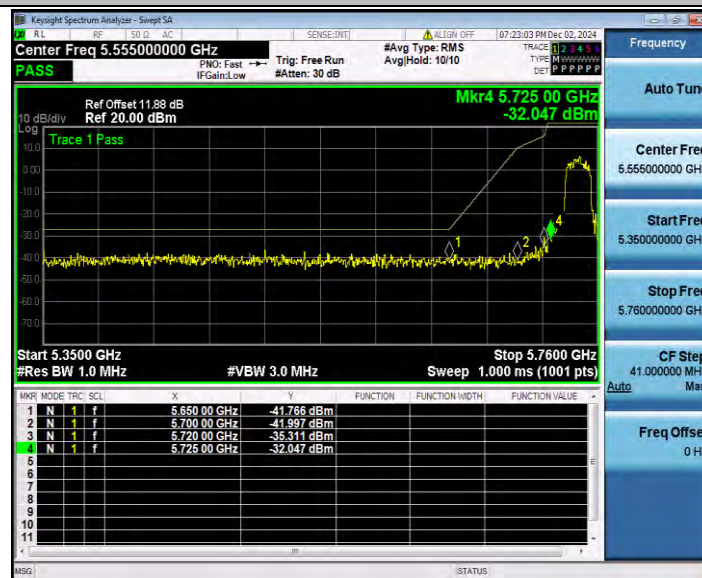
11N40SISO_Ant1_Low_5755_Peak



11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5745_Peak



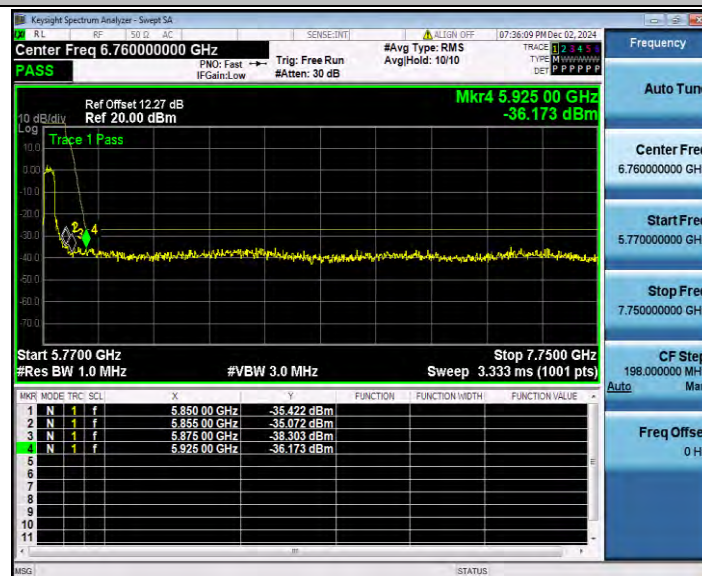
11AC20SISO_Ant1_High_5825_Peak



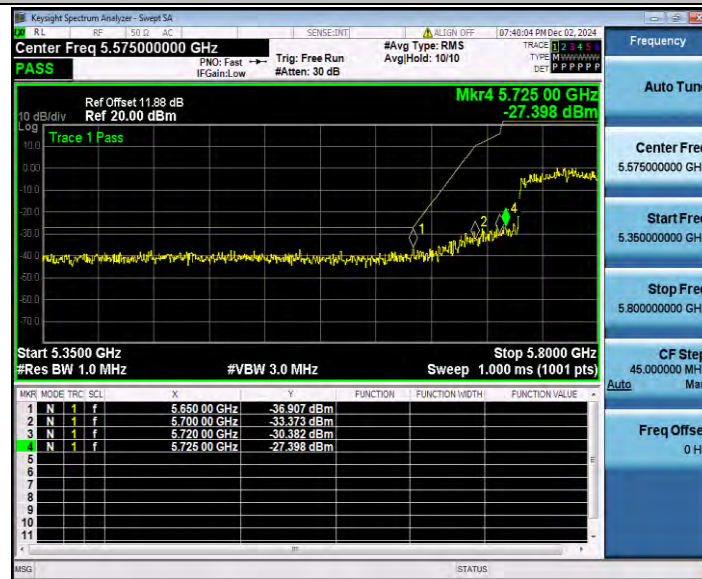
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak

