

Case No. : <u>GTS20230628002-1-12</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2024.1.19</u>	Test Engineer: <u>Evan ouyang</u>

Appendix E.1: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.229	5736.3482	5753.5772	---	---
		5785	17.263	5776.3005	5793.5635	---	---
		5825	17.092	5816.3697	5833.4617	---	---
11N20SISO	Ant1	5745	17.236	5736.3578	5753.5938	---	---
		5785	17.288	5776.2777	5793.5657	---	---
		5825	17.239	5816.3029	5833.5419	---	---
11N40SISO	Ant1	5755	36.306	5736.9567	5773.2627	---	---
		5795	36.389	5776.9043	5813.2933	---	---
11AC20SISO	Ant1	5745	17.843	5736.0857	5753.9287	---	---
		5785	17.799	5776.0885	5793.8875	---	---
		5825	17.789	5816.0935	5833.8825	---	---
11AC40SISO	Ant1	5755	36.331	5736.9523	5773.2833	---	---
		5795	36.388	5776.8982	5813.2862	---	---
11AC80SISO	Ant1	5775	75.887	5737.1851	5813.0721	---	---

Test Graphs

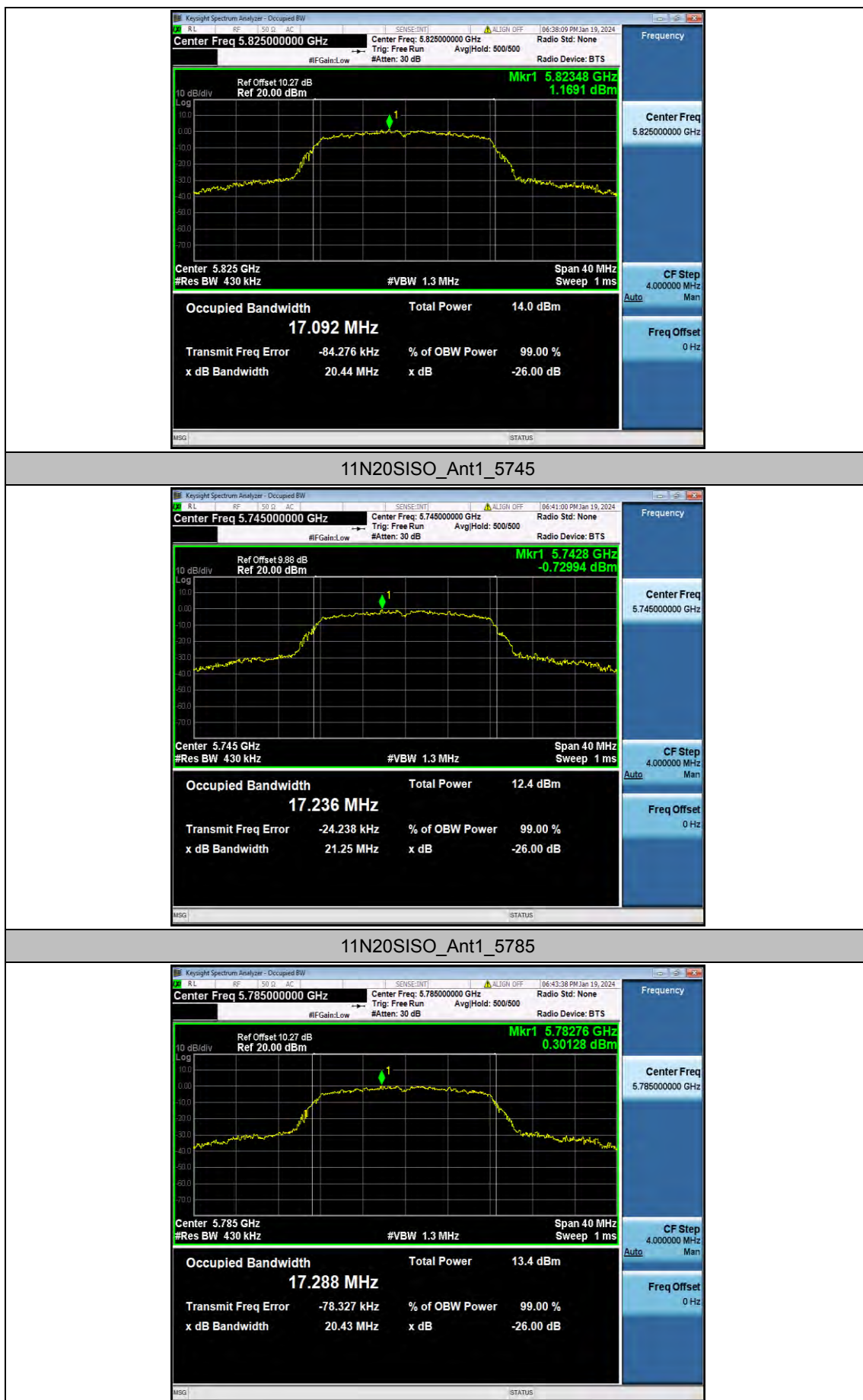
11A_Ant1_5745



11A_Ant1_5785



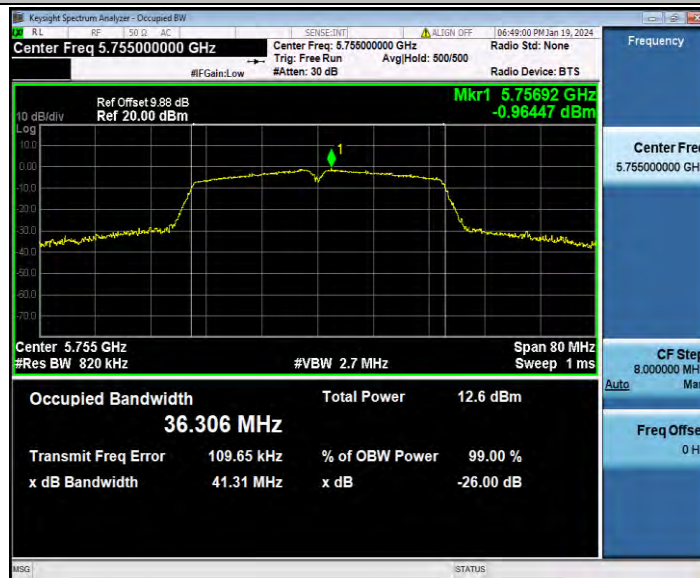
11A_Ant1_5825



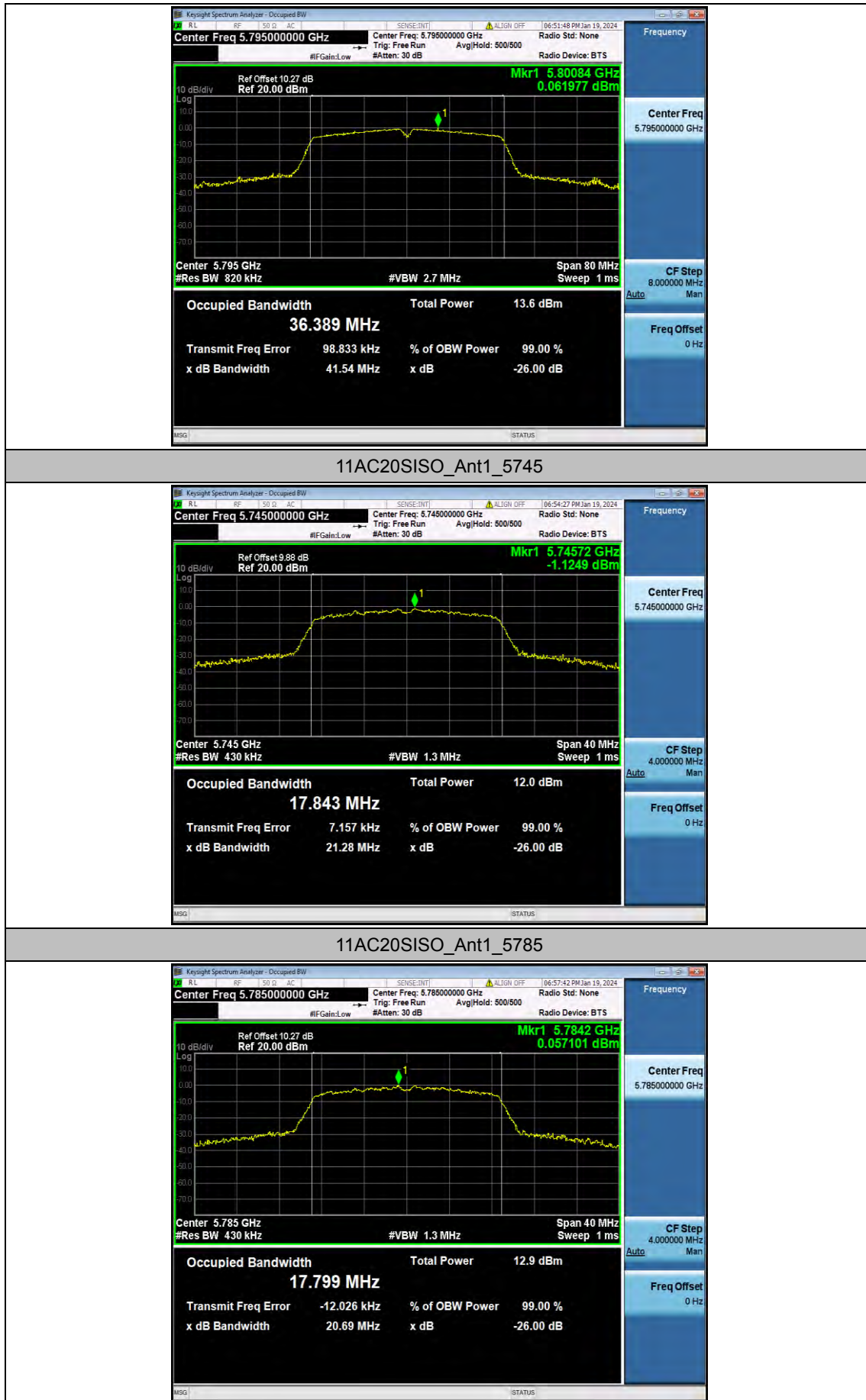
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



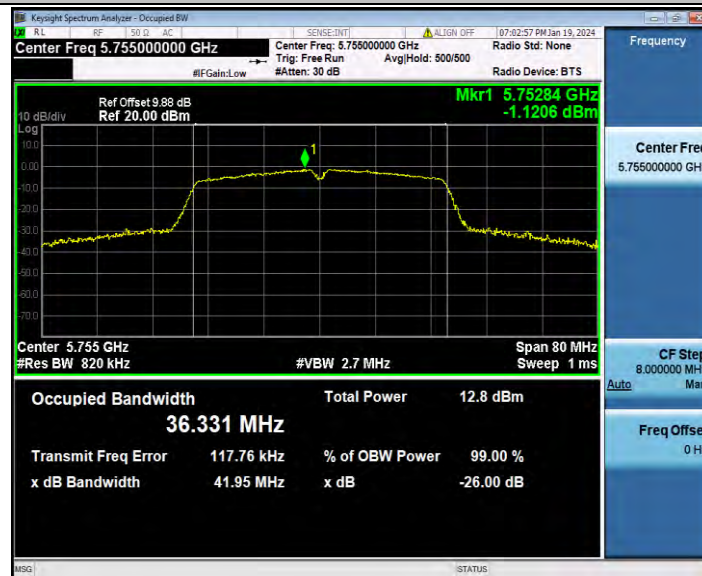
11N40SISO_Ant1_5795



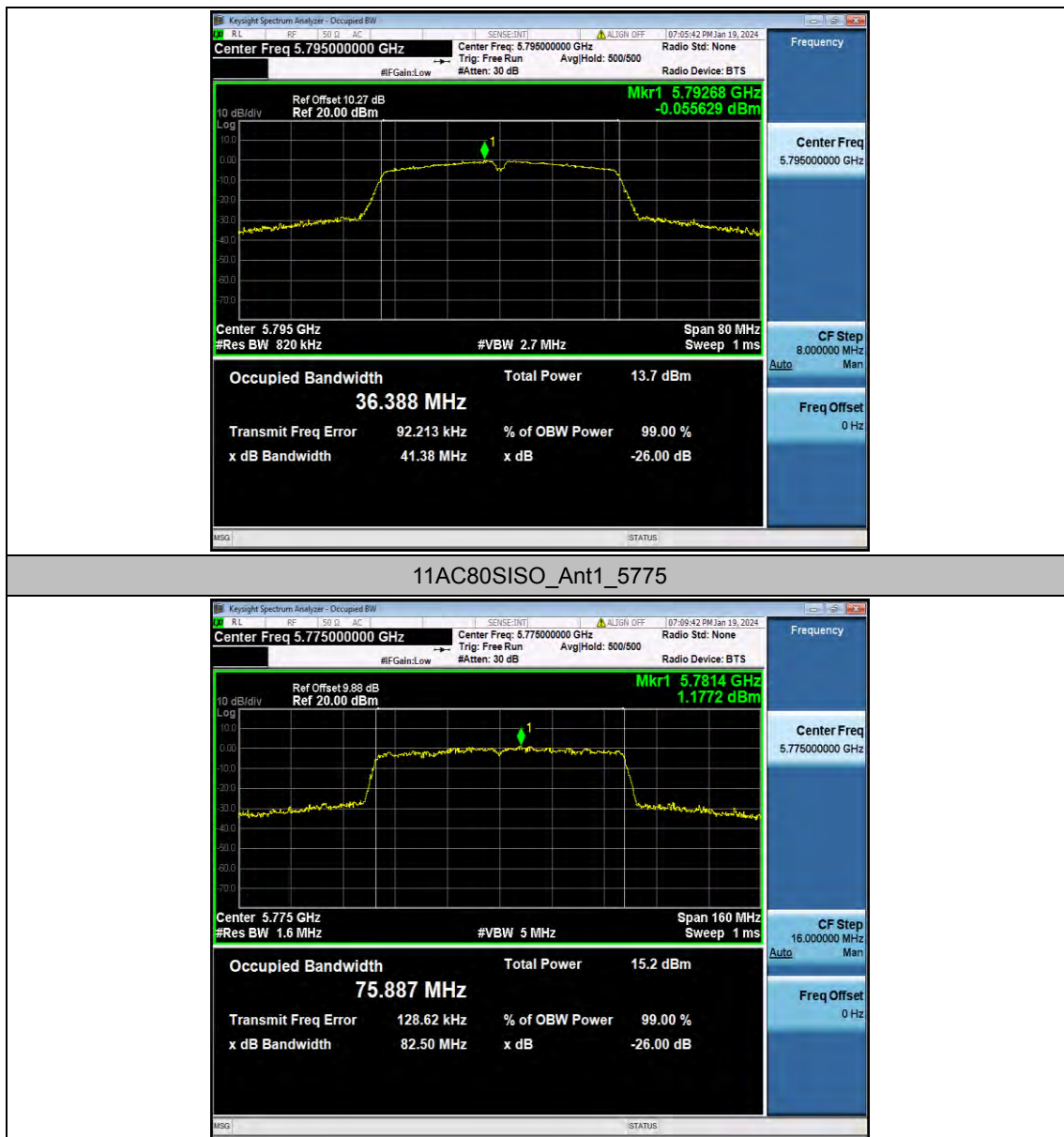
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix D.2: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.040	5817.440	5832.480	0.5	PASS
11N20SISO	Ant1	5745	15.080	5737.480	5752.560	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	15.040	5817.480	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.400	5812.760	0.5	PASS

Test Graphs B4

11A_Ant1_5745



11A_Ant1_5785



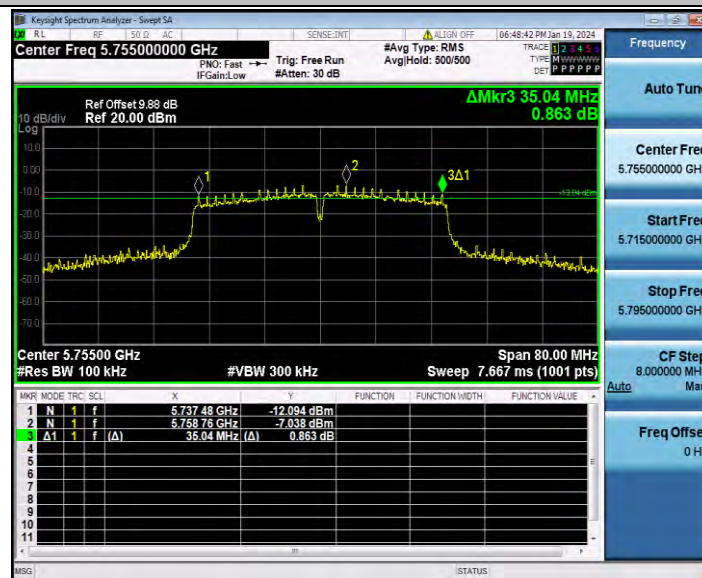
11A_Ant1_5825



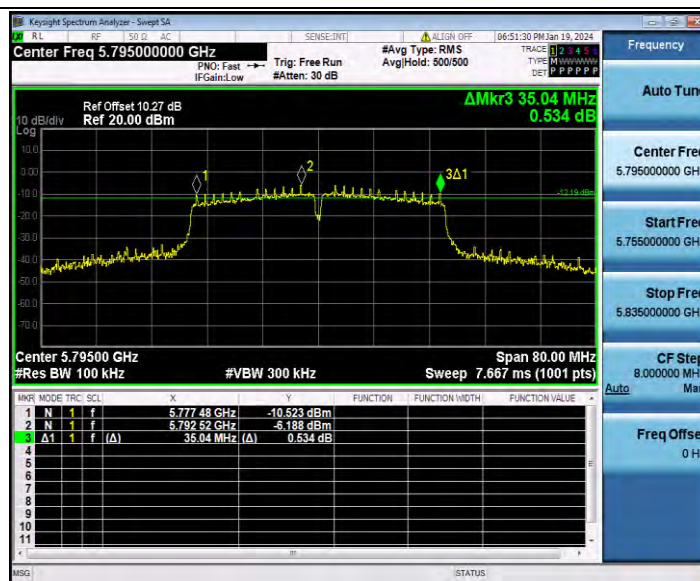
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



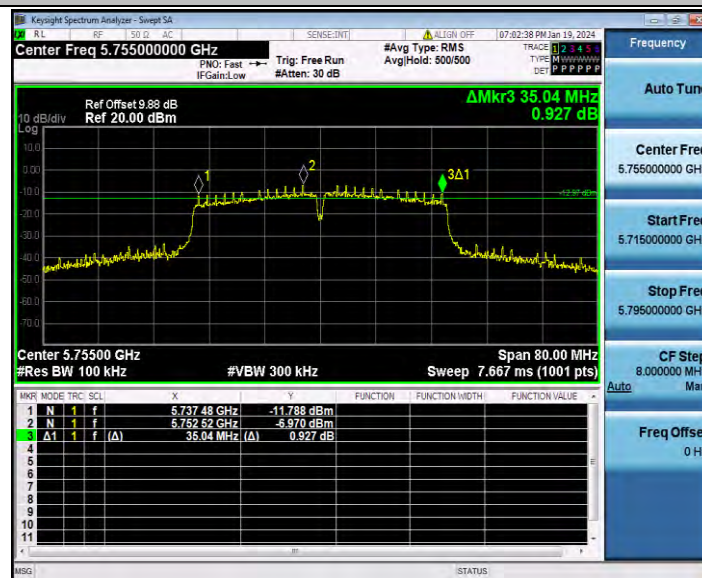
11AC20SISO_Ant1_5785



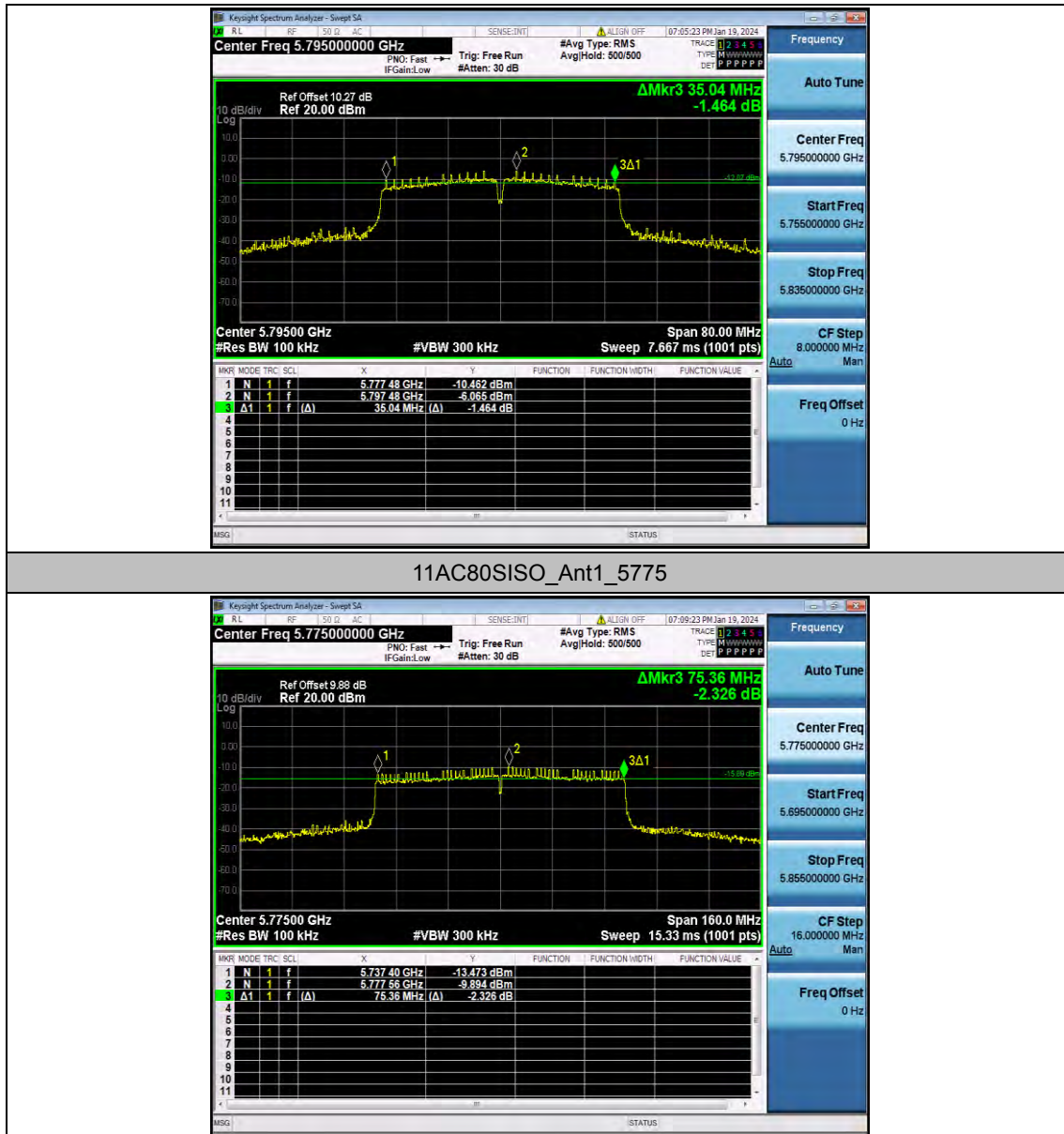
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



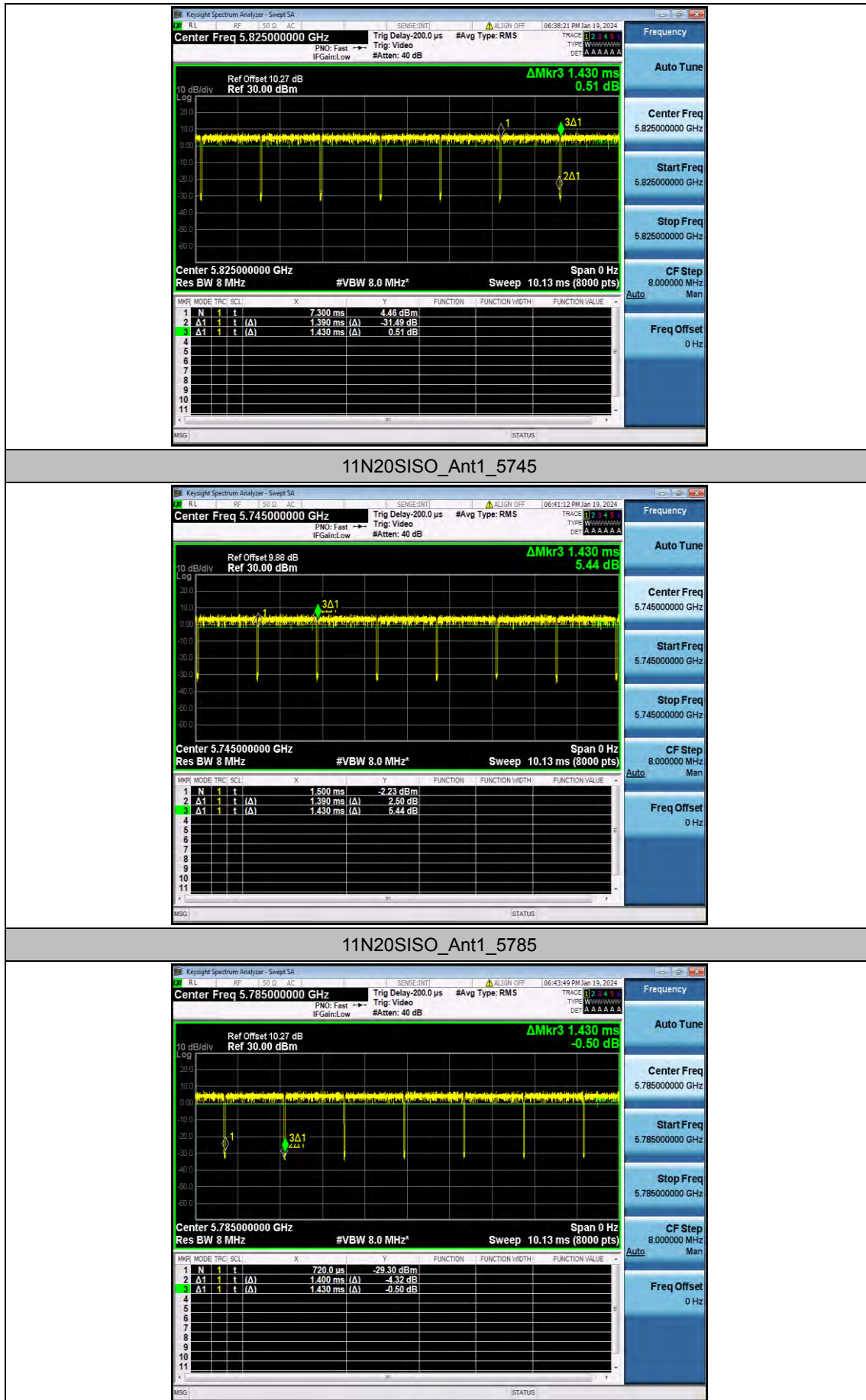
11AC40SISO_Ant1_5795



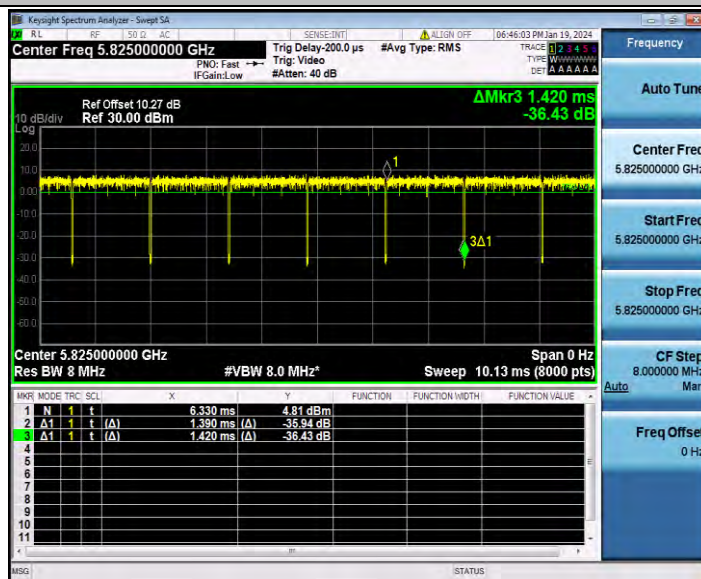
Appendix D.3: Duty Cycle

Test Result

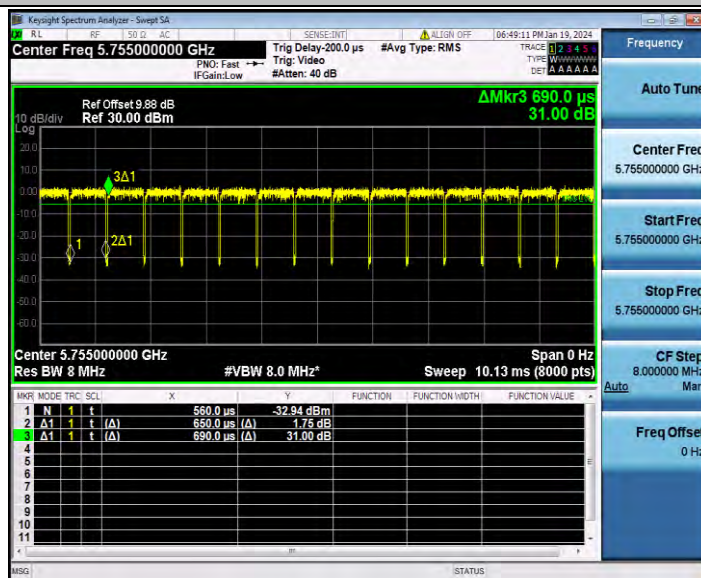
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	1.39	1.43	97.20	0.12	0.72
		5785	1.39	1.43	97.20	0.12	0.72
		5825	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5745	1.39	1.43	97.20	0.12	0.72
		5785	1.40	1.43	97.90	0.09	0.71
		5825	1.39	1.42	97.89	0.09	0.72
11N40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
		5795	0.65	0.69	94.20	0.26	1.54
11AC20SISO	Ant1	5745	1.31	1.34	97.76	0.10	0.76
		5785	1.31	1.34	97.76	0.10	0.76
		5825	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
		5795	0.65	0.69	94.20	0.26	1.54
11AC80SISO	Ant1	5775	0.32	0.36	88.89	0.51	3.13



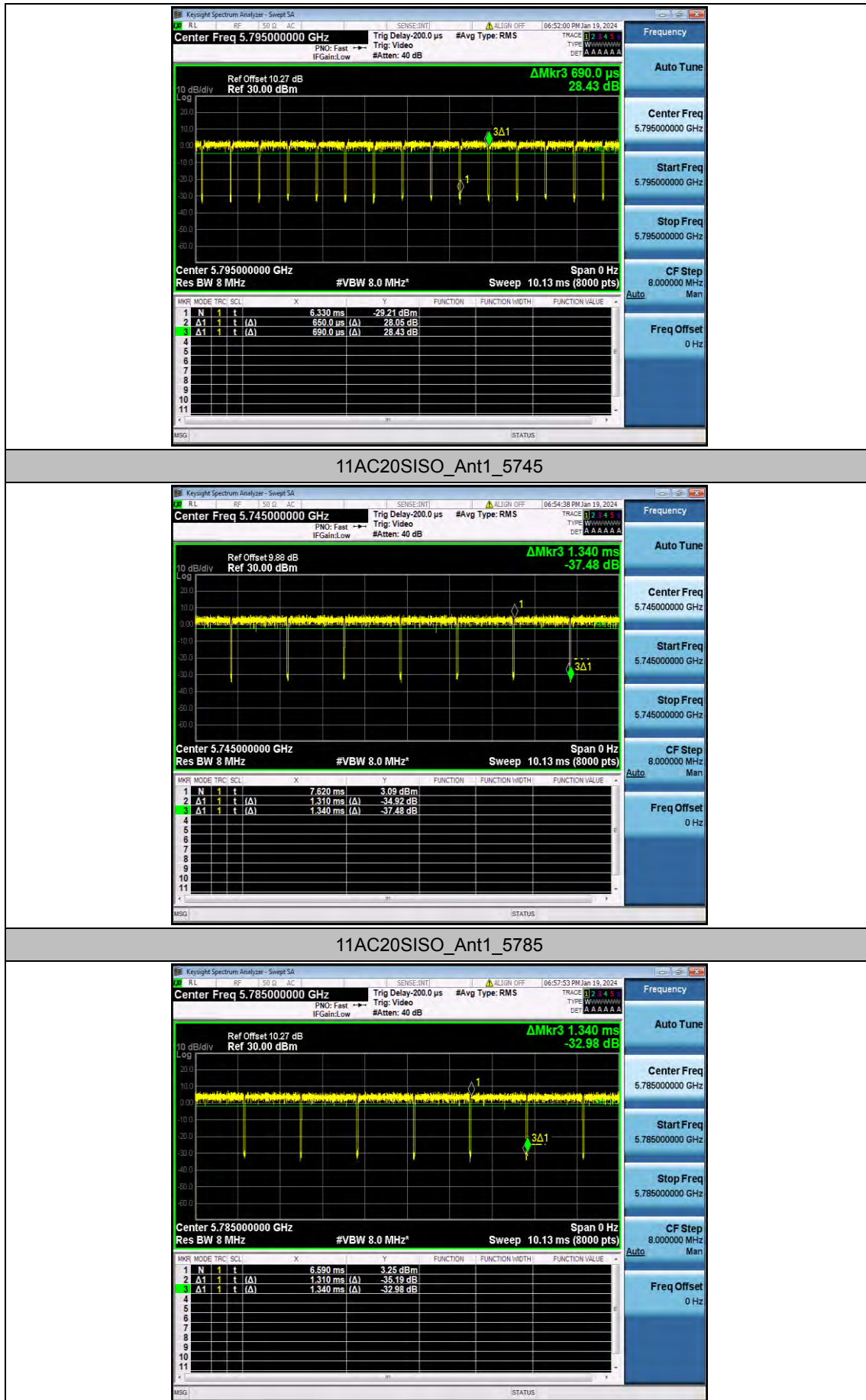
11N20SISO_Ant1_5825



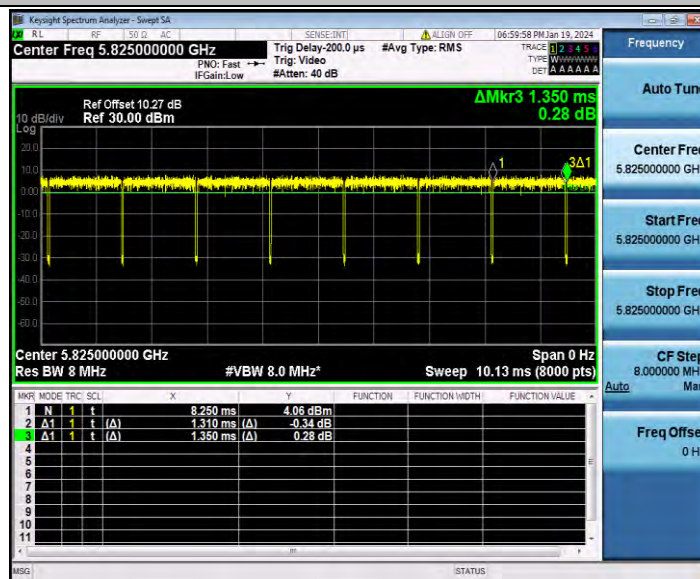
11N40SISO_Ant1_5755



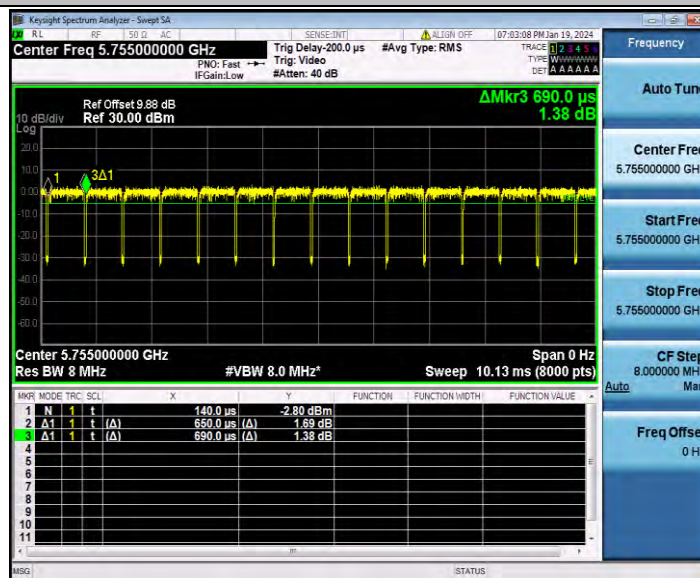
11N40SISO_Ant1_5795



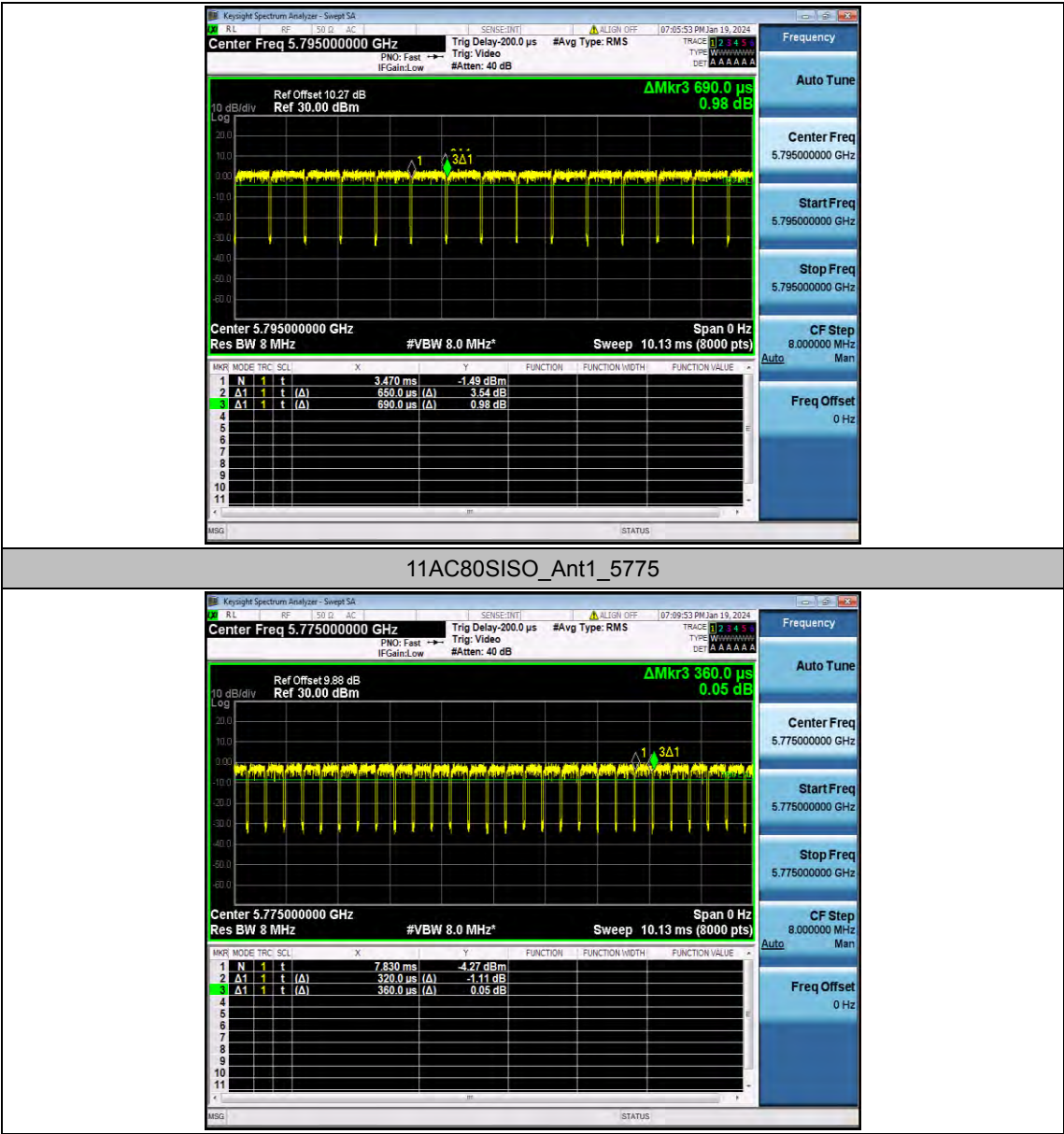
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	13.57	97.20	0.12	13.69	≤30.00	PASS
		5785	13.23	97.20	0.12	13.35	≤30.00	PASS
		5825	13.67	97.20	0.12	13.79	≤30.00	PASS
11N20SISO	Ant1	5745	13.48	97.20	0.12	13.6	≤30.00	PASS
		5785	13.54	97.90	0.09	13.63	≤30.00	PASS
		5825	13.51	97.89	0.09	13.6	≤30.00	PASS
11N40SISO	Ant1	5755	13.38	94.20	0.26	13.64	≤30.00	PASS
		5795	13.37	94.20	0.26	13.63	≤30.00	PASS
11AC20SISO	Ant1	5745	13.16	97.76	0.10	13.26	≤30.00	PASS
		5785	13.15	97.76	0.10	13.25	≤30.00	PASS
		5825	13.58	97.04	0.13	13.71	≤30.00	PASS
11AC40SISO	Ant1	5755	13.49	94.20	0.26	13.75	≤30.00	PASS
		5795	13.18	94.20	0.26	13.44	≤30.00	PASS
11AC80SISO	Ant1	5775	13.59	88.89	0.51	14.1	≤30.00	PASS

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

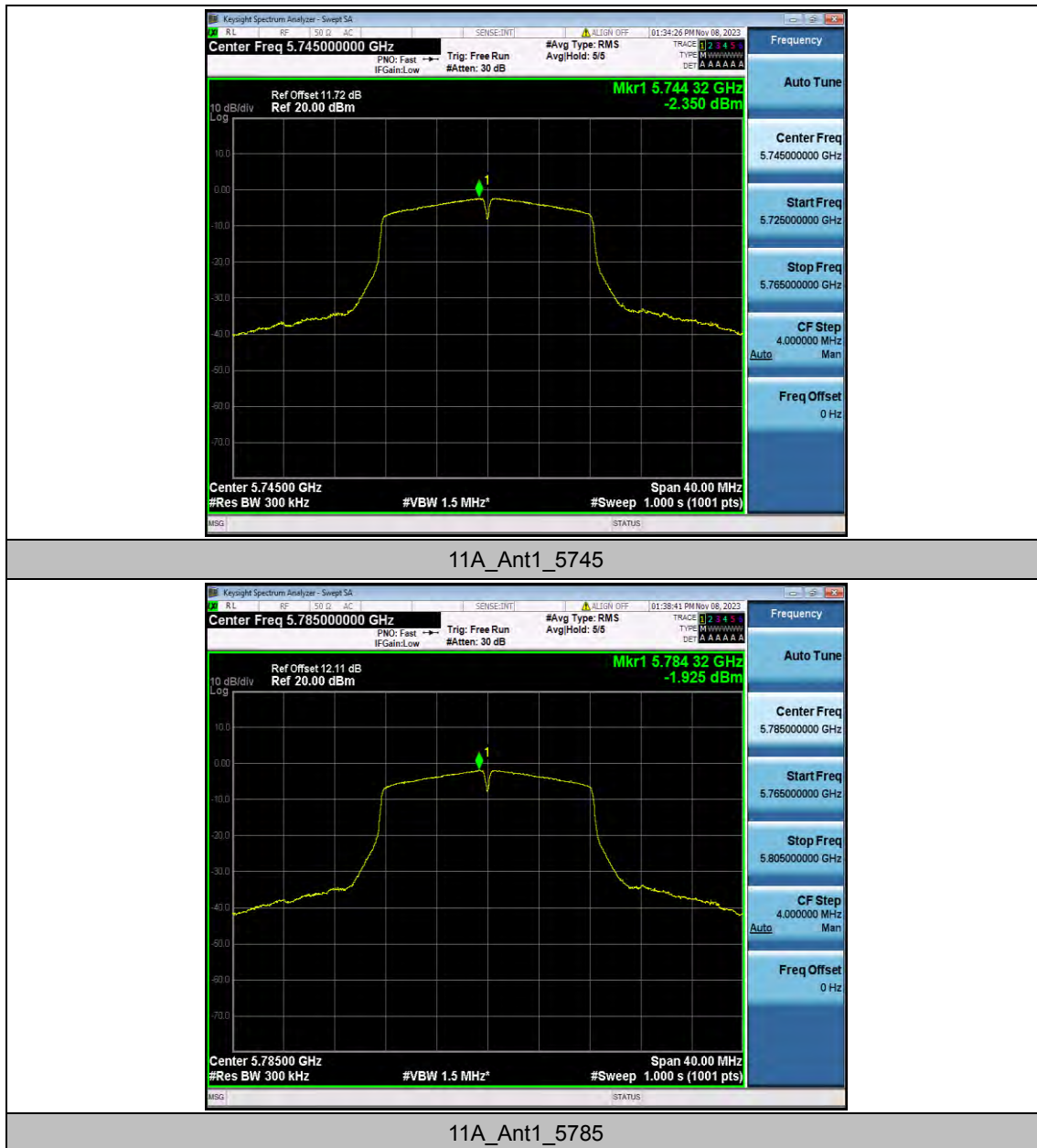
Appendix D.5: Maximum power spectral density

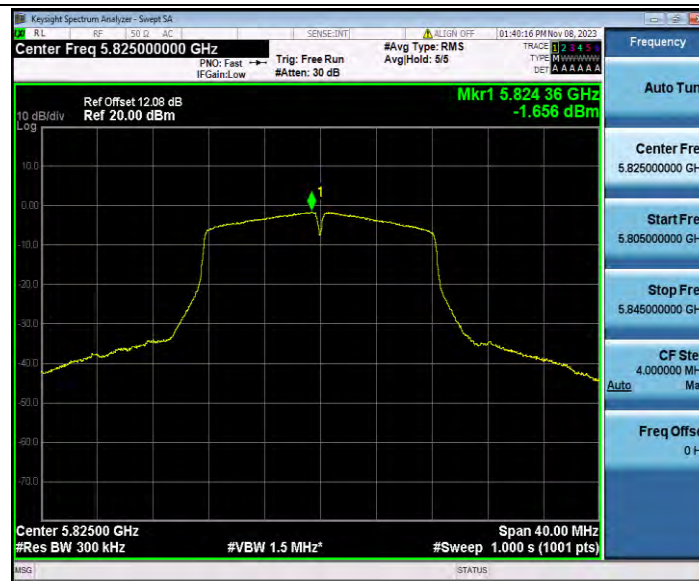
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-2.35	≤30.00	PASS
		5785	-1.93	≤30.00	PASS
		5825	-1.66	≤30.00	PASS
11N20SISO	Ant1	5745	-2.89	≤30.00	PASS
		5785	-2.26	≤30.00	PASS
		5825	-2.1	≤30.00	PASS
11N40SISO	Ant1	5755	-6.09	≤30.00	PASS
		5795	-5.15	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.99	≤30.00	PASS
		5785	-2.21	≤30.00	PASS
		5825	-1.99	≤30.00	PASS
11AC40SISO	Ant1	5755	-6.25	≤30.00	PASS
		5795	-5.13	≤30.00	PASS
11AC80SISO	Ant1	5775	-7.15	≤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

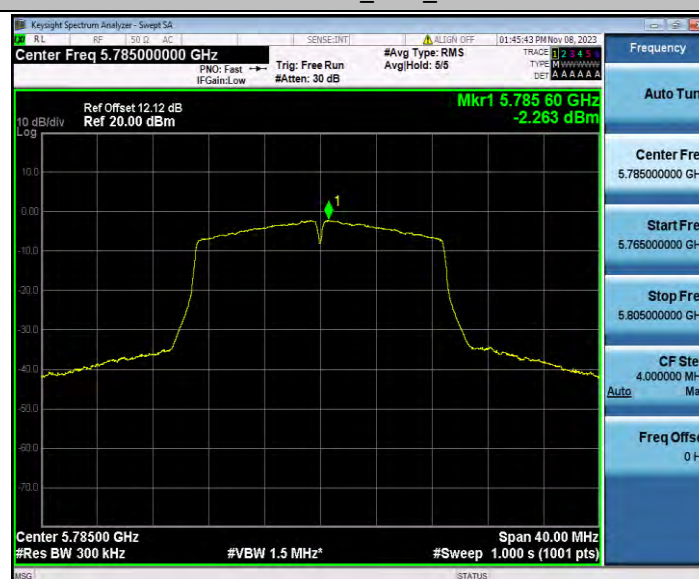




11A_Ant1_5825



11N20SISO_Ant1_5745



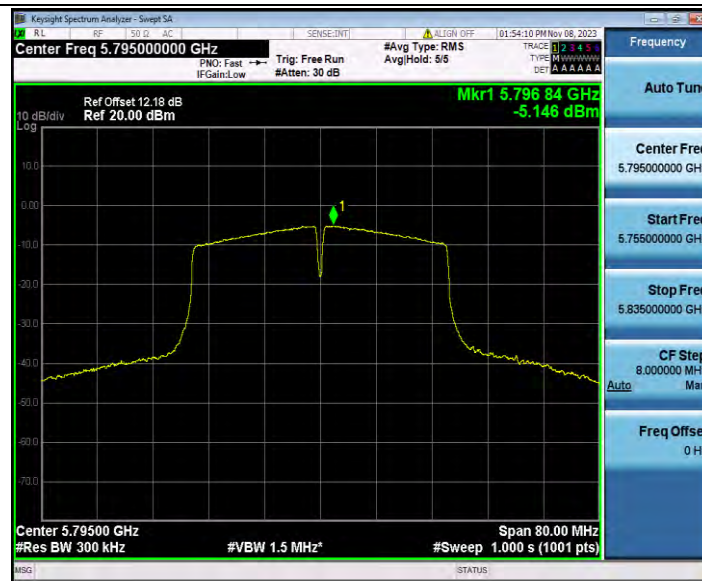
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785

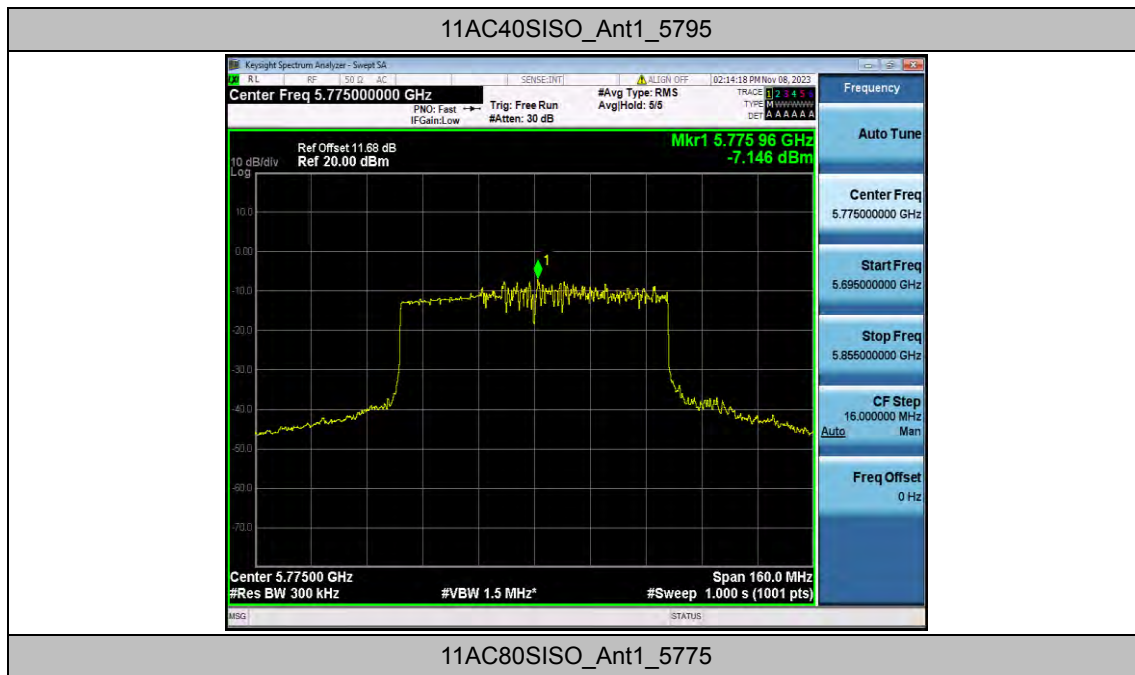


11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755





Appendix D.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	-39.63	≤-26.79	PASS
				5700~5720	-38.38	≤10.25	PASS
				5720~5725	-37.13	≤15.82	PASS
				5760~5650	-40.18	≤-27	PASS
		High	5825	5850~5855	-39.64	≤16.03	PASS
				5855~5875	-37.24	≤10.63	PASS
				5875~5925	-38.75	≤-26.21	PASS
				5925~5935	-38.41	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-39.2	≤-26.27	PASS
				5700~5720	-38.61	≤10.09	PASS
				5720~5725	-37.18	≤16.34	PASS
				5760~5650	-39.63	≤-27	PASS
		High	5825	5850~5855	-38.99	≤16.03	PASS
				5855~5875	-38.95	≤10.17	PASS
				5875~5925	-38.54	≤-26.21	PASS
				5925~5935	-38.13	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-40.56	≤-26.80	PASS
				5700~5720	-36.97	≤10.10	PASS
				5720~5725	-33.54	≤16.04	PASS
				5780~5650	-36.86	≤-27	PASS
		High	5795	5850~5855	-40.08	≤15.66	PASS
				5855~5875	-39.26	≤10.11	PASS
				5875~5925	-39.51	≤-26.95	PASS
				5925~5935	-38.72	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-38.73	≤-25.34	PASS
				5700~5720	-39.69	≤10.02	PASS
				5720~5725	-34.82	≤16.34	PASS
				5760~5650	-39.6	≤-27	PASS
		High	5825	5850~5855	-39.95	≤15.73	PASS
				5855~5875	-37.96	≤10.10	PASS
				5875~5925	-38.04	≤-26.71	PASS
				5925~5935	-38.71	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.1	≤-26.90	PASS
				5700~5720	-34.25	≤13.76	PASS
				5720~5725	-33.14	≤16.35	PASS

		High	5795	5780~5650	-38.9	≤ -27	PASS
				5850~5855	-39.5	≤ 15.66	PASS
				5855~5875	-38.37	≤ 10.16	PASS
				5875~5925	-39.74	≤ -26.95	PASS
				5925~5935	-38.58	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.62	≤ -26.57	PASS
				5700~5720	-34.27	≤ 10.18	PASS
				5720~5725	-32.07	≤ 15.65	PASS
				5800~5650	-39.36	≤ -27	PASS
		High	5775	5850~5855	-35.97	≤ 16.68	PASS
				5855~5875	-38.09	≤ 10.45	PASS
				5875~5925	-39.43	≤ -26.32	PASS
				5925~5935	-37.62	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



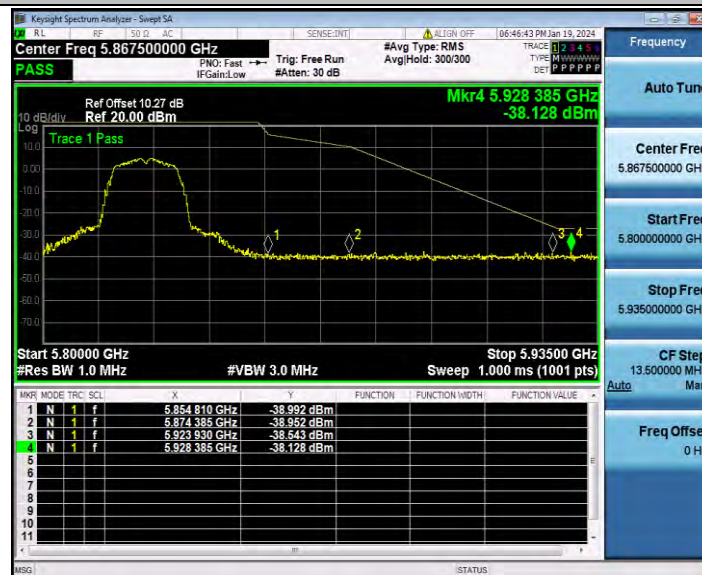
11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



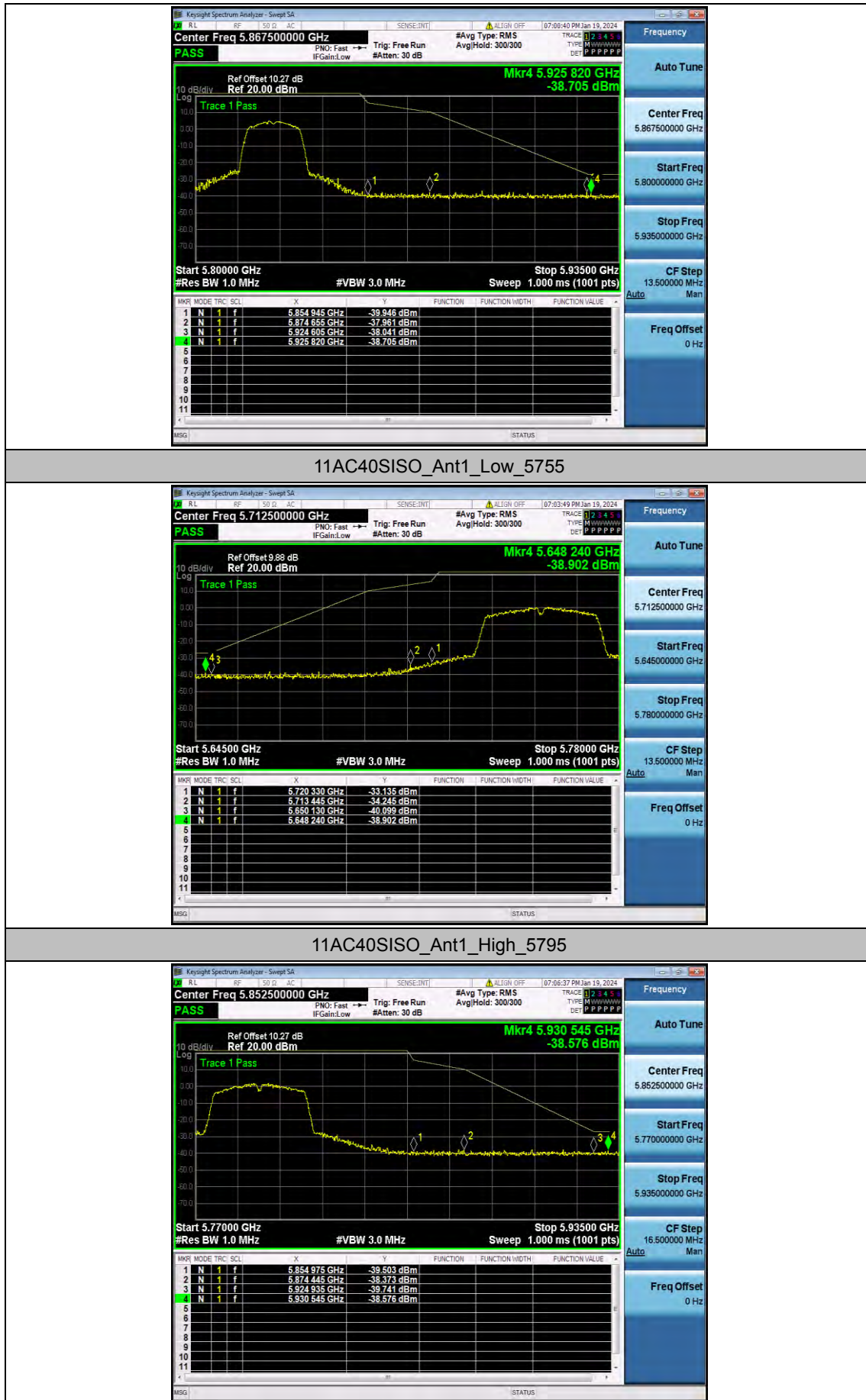
11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



Appendix D.7: Conducted Spurious Emission

Test Result

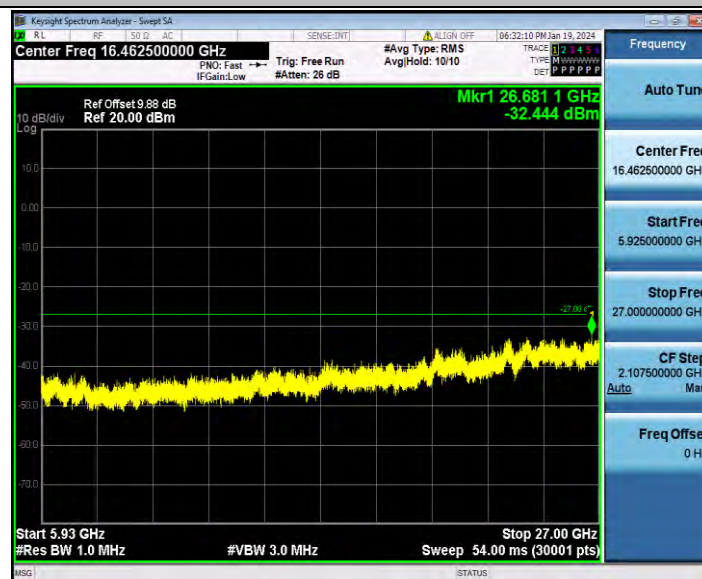
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	4980.28	-40.26	≤-27	PASS
			5925~40000	26681.07	-32.44	≤-27	PASS
		5785	30~5650	2744.65	-39.82	≤-27	PASS
			5925~40000	25111.68	-31.34	≤-27	PASS
		5825	30~5650	2794.85	-39.74	≤-27	PASS
			5925~40000	24258.14	-31.66	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	2492.87	-40.04	≤-27	PASS
			5925~40000	25159.45	-31.92	≤-27	PASS
		5785	30~5650	5363.75	-39.99	≤-27	PASS
			5925~40000	26851.07	-31.85	≤-27	PASS
		5825	30~5650	5459.29	-39.93	≤-27	PASS
			5925~40000	25927.99	-31.37	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	3363.41	-40.41	≤-27	PASS
			5925~40000	26031.96	-31.25	≤-27	PASS
		5795	30~5650	2628.13	-39.78	≤-27	PASS
			5925~40000	26046.01	-31.83	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5362.82	-40.72	≤-27	PASS
			5925~40000	24246.2	-31.99	≤-27	PASS
		5785	30~5650	5570.76	-39.06	≤-27	PASS
			5925~40000	26596.77	-31.75	≤-27	PASS
		5825	30~5650	3158.65	-39.87	≤-27	PASS
			5925~40000	24188.6	-31.83	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5447.12	-39.99	≤-27	PASS
			5925~40000	24788.53	-32.23	≤-27	PASS
		5795	30~5650	4896.73	-40.35	≤-27	PASS
			5925~40000	26953.64	-31.46	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	3144.98	-39.52	≤-27	PASS
			5925~40000	26468.21	-32.25	≤-27	PASS

Test Graphs

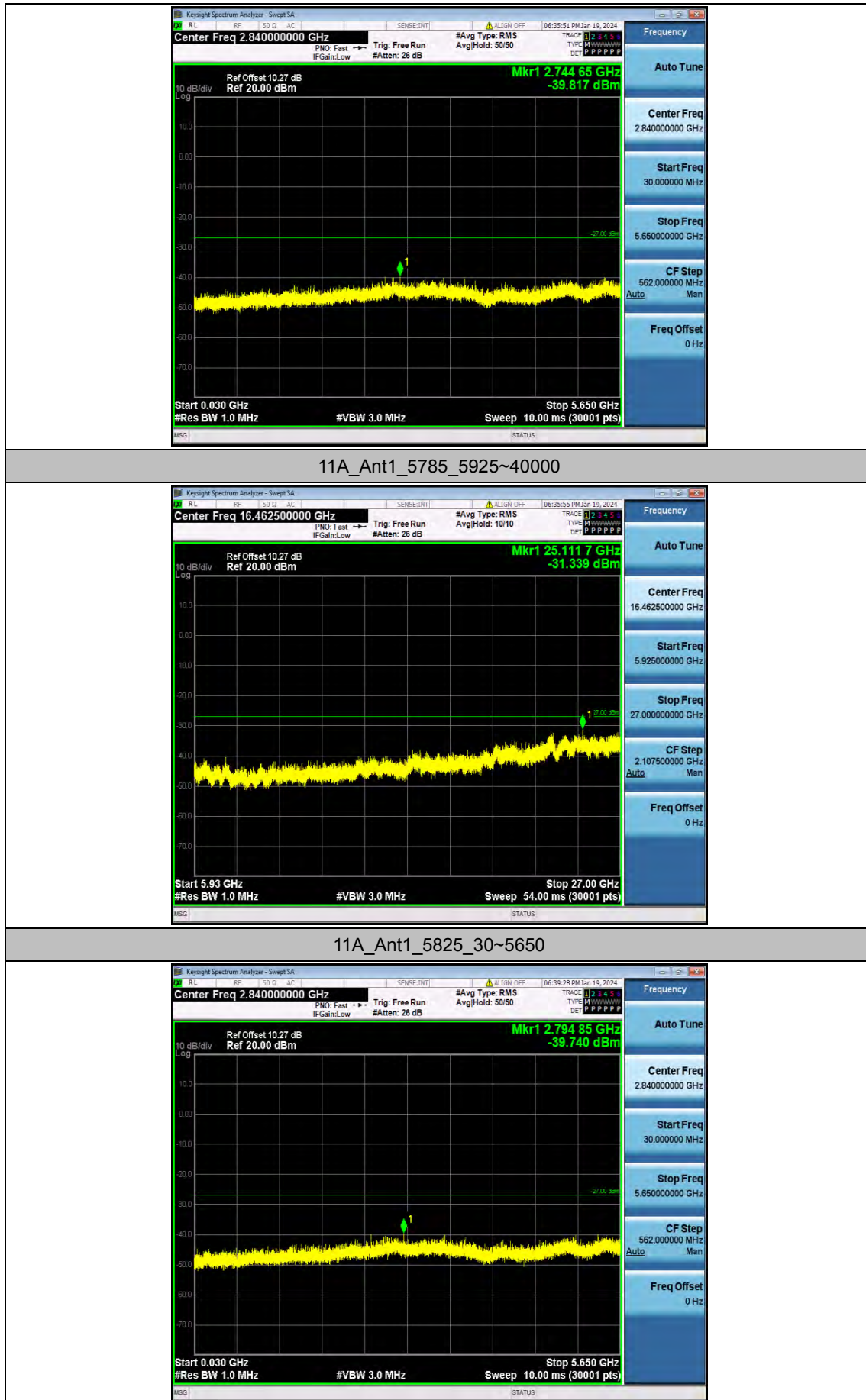
11A_Ant1_5745_30~5650



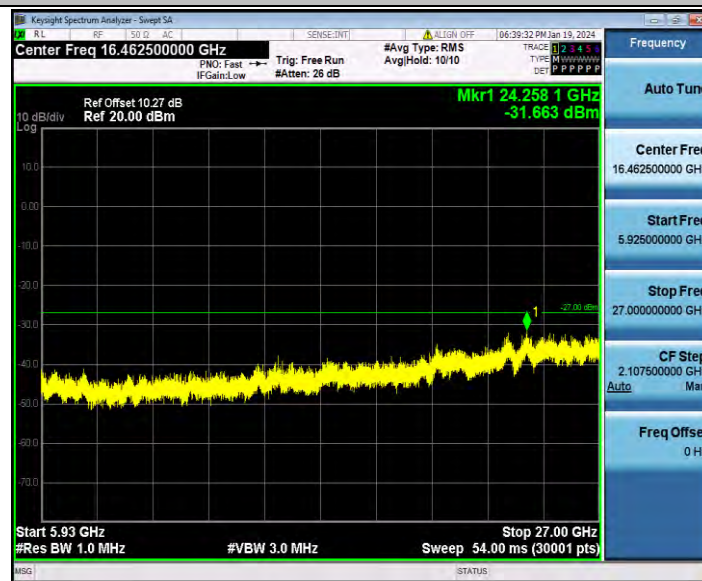
11A_Ant1_5745_5925~40000



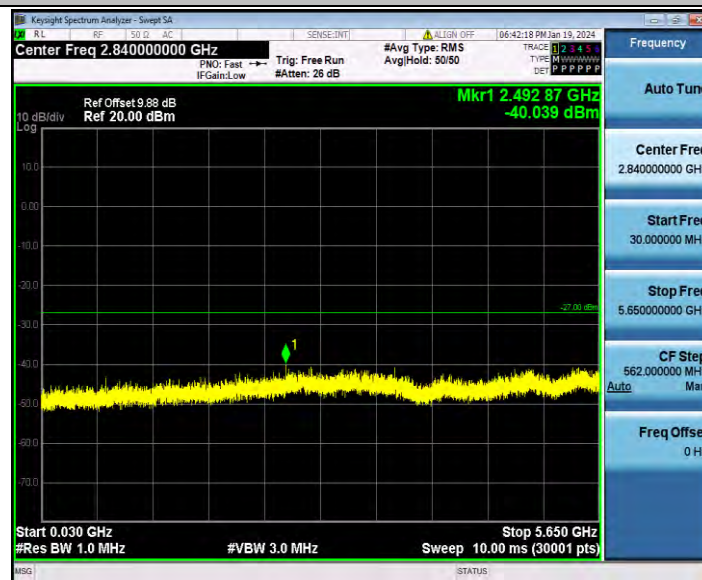
11A_Ant1_5785_30~5650



11A_Ant1_5825_5925~40000



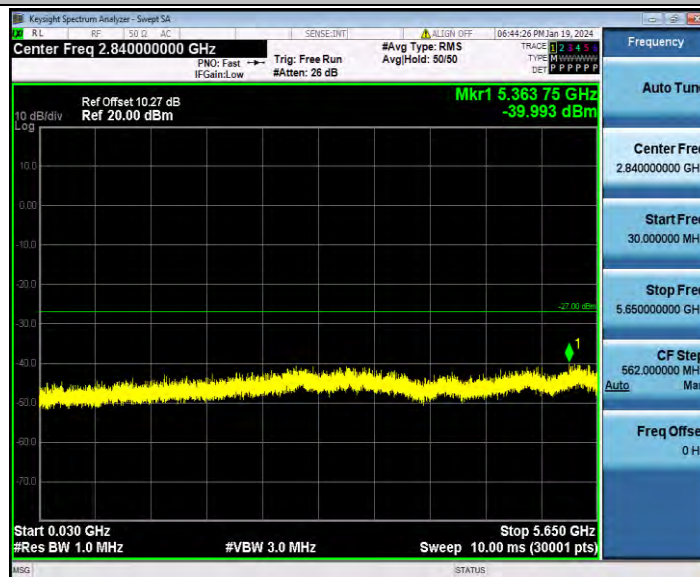
11N20SISO_Ant1_5745_30~5650



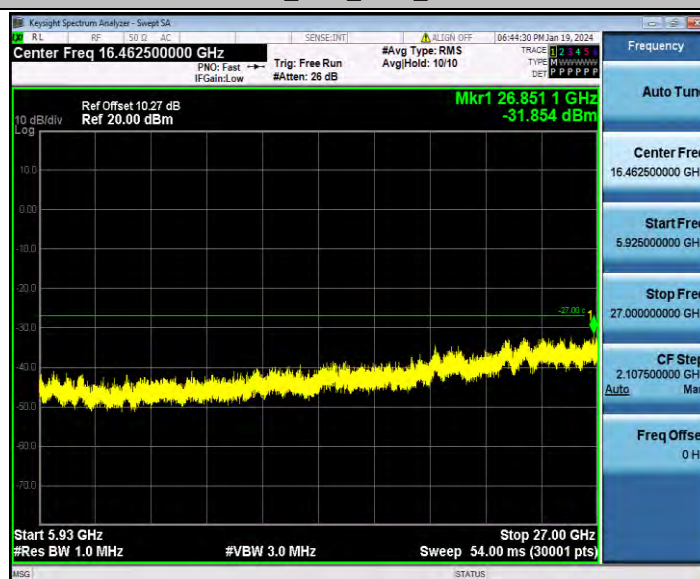
11N20SISO_Ant1_5745_5925~40000



11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~40000



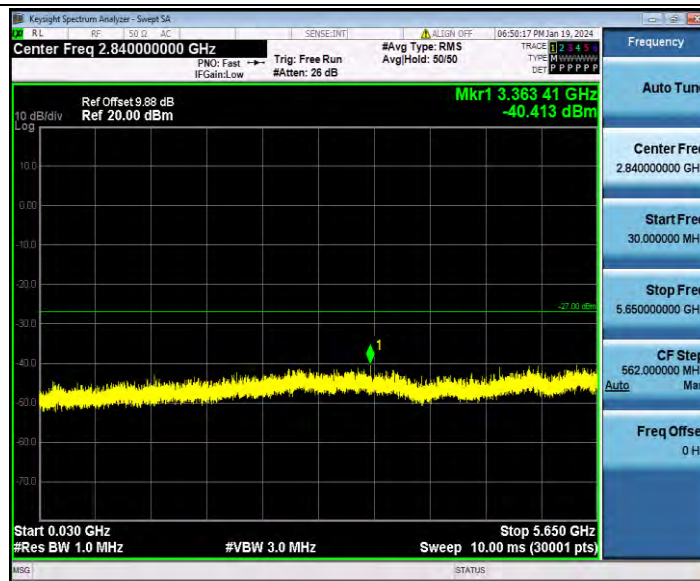
11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~40000



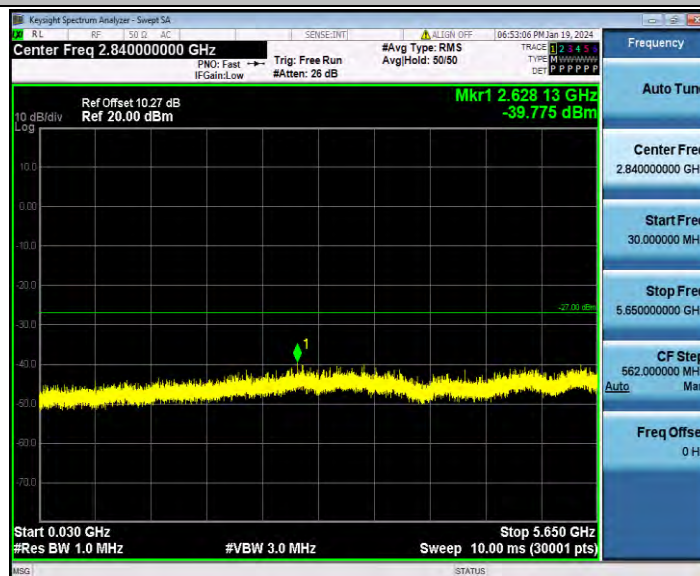
11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~40000



11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~40000



11AC20SISO_Ant1_5745_30~5650



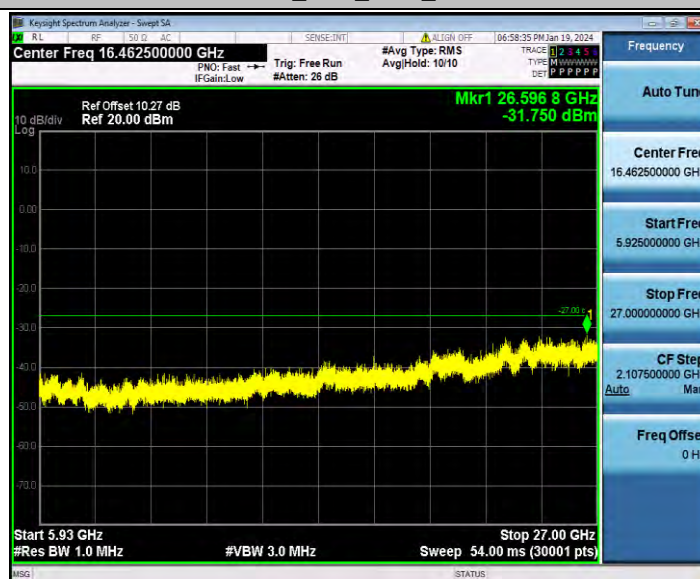
11AC20SISO_Ant1_5745_5925~40000



11AC20SISO_Ant1_5785_30~5650



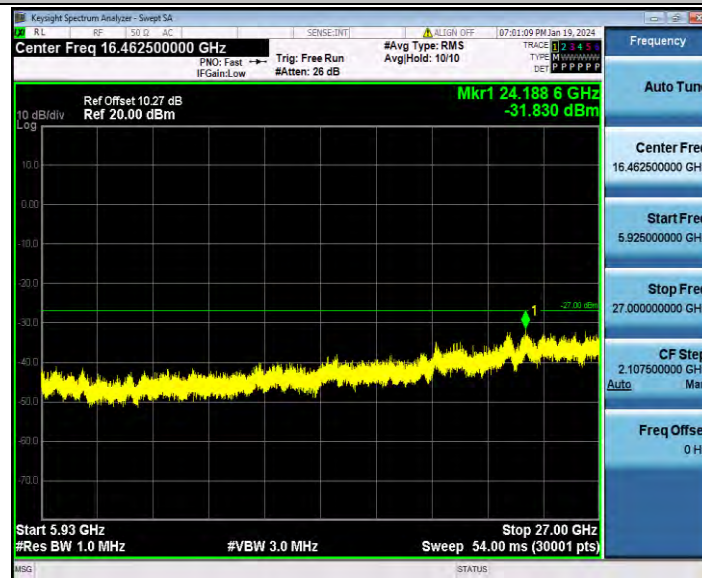
11AC20SISO_Ant1_5785_5925~40000



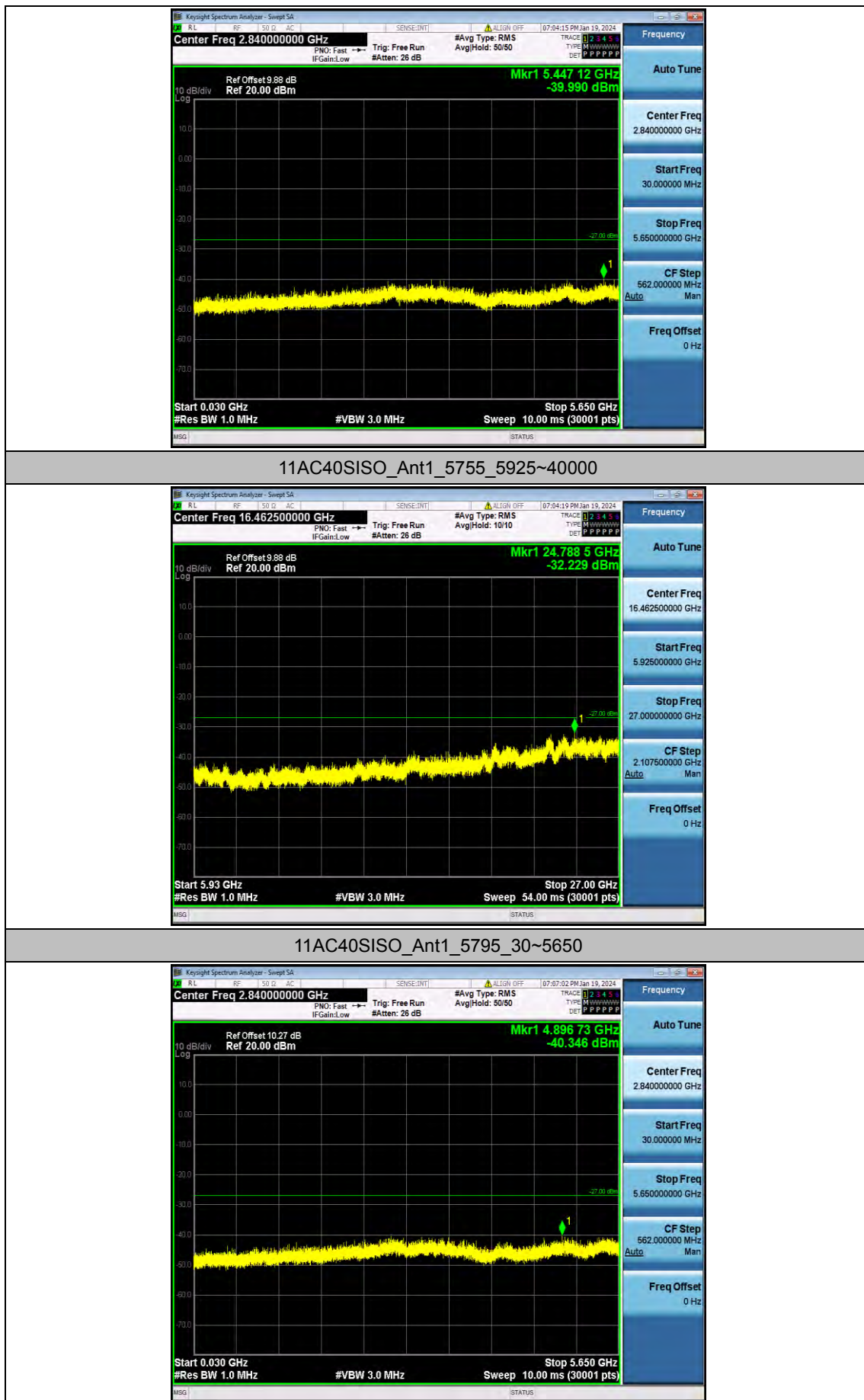
11AC20SISO_Ant1_5825_30~5650



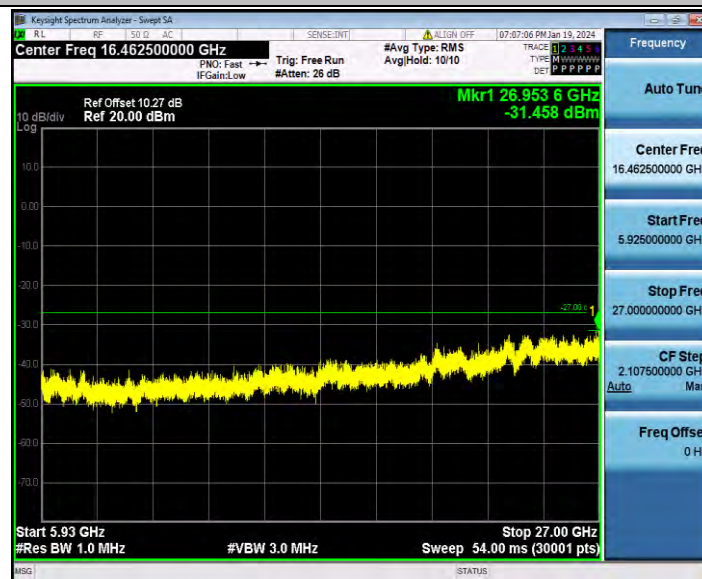
11AC20SISO_Ant1_5825_5925~40000



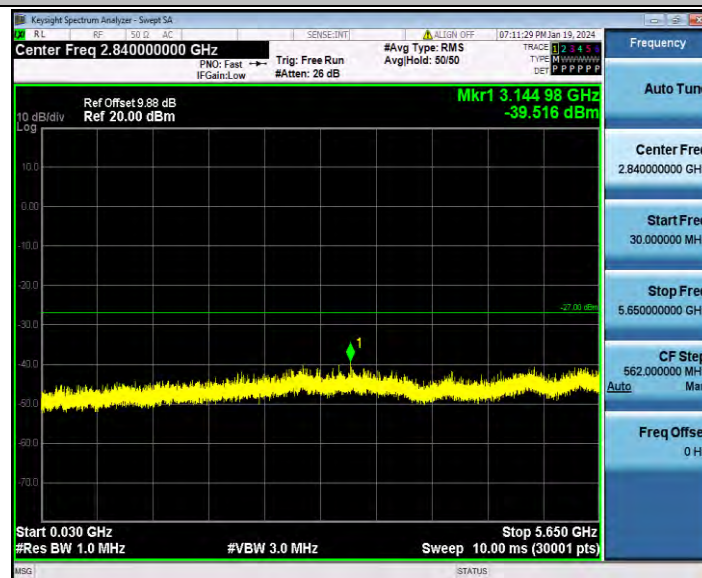
11AC40SISO_Ant1_5755_30~5650



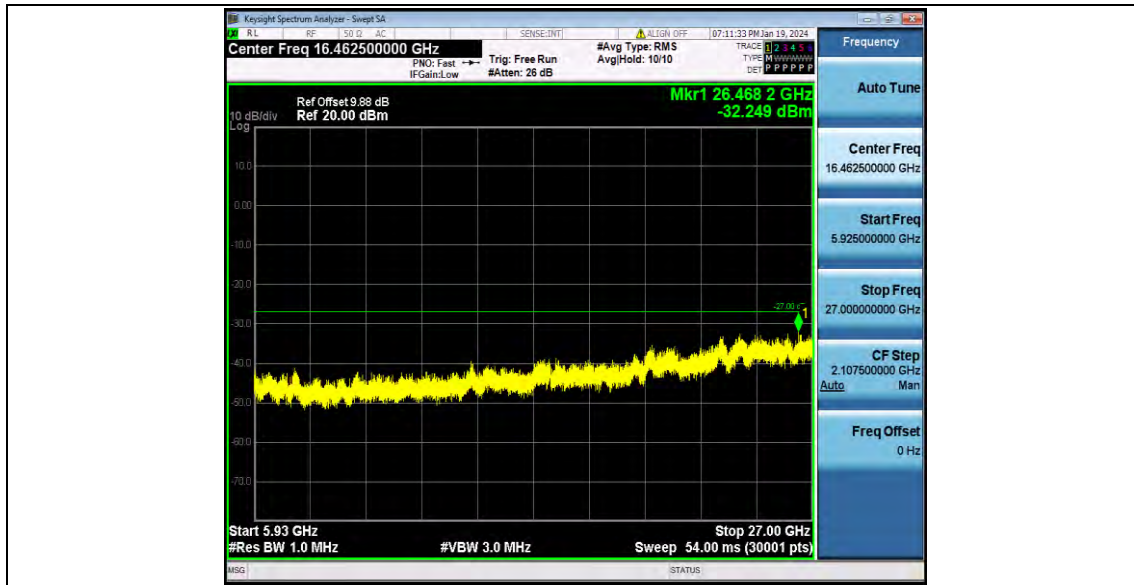
11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000



Appendix D.8: Emissions in Restricted Bands

Test Result

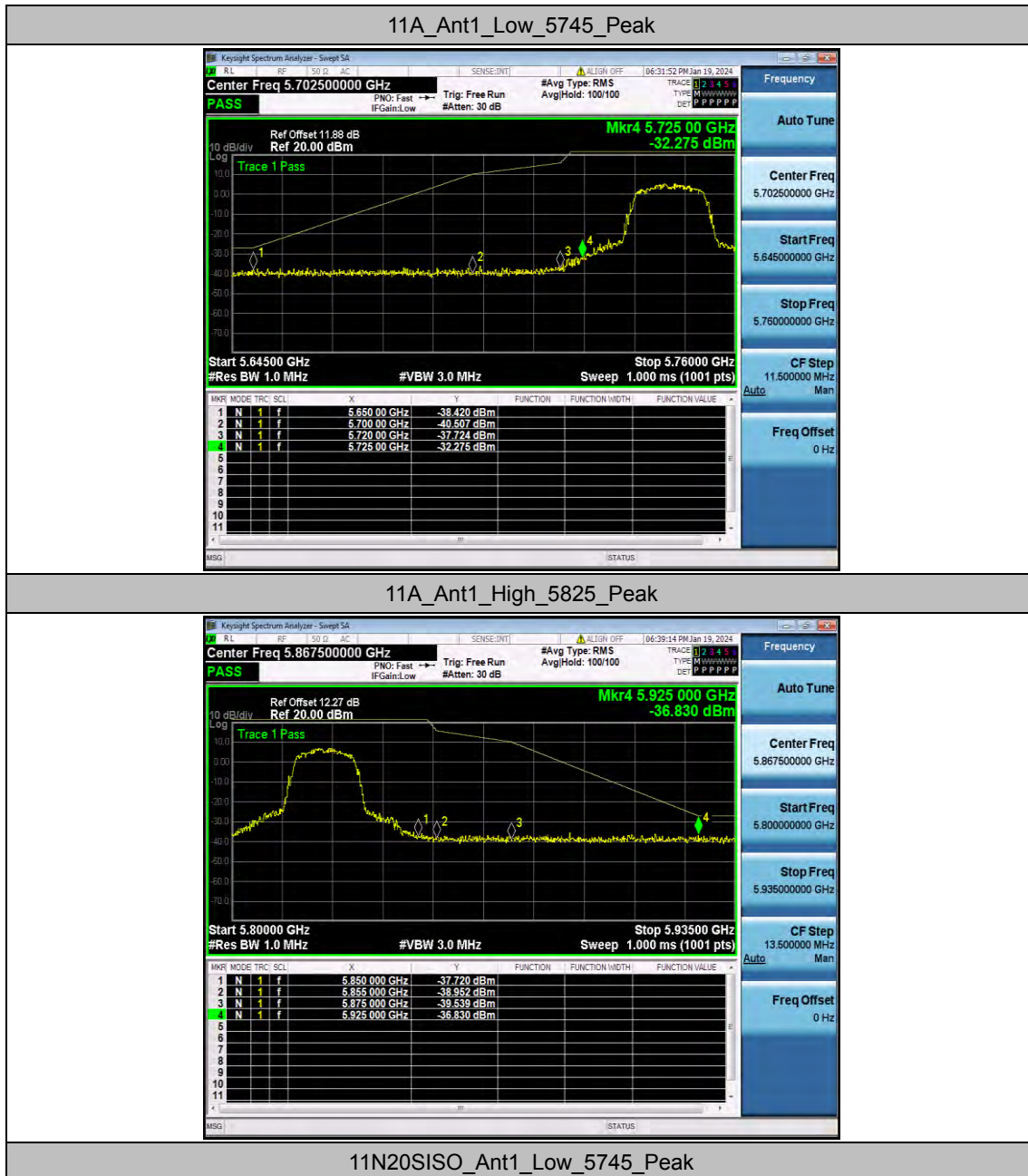
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-38.42	≤-27.00	---	---	PASS
				Peak	5700.000	-40.51	≤10.00	---	---	PASS
				Peak	5720.000	-37.72	≤15.60	---	---	PASS
				Peak	5725.000	-32.28	≤27.00	- - -	- - -	PASS
		High	5825	Peak	5850.000	-37.72	≤27.00	---	---	PASS
				Peak	5855.000	-38.95	≤15.60	---	---	PASS
				Peak	5875.000	-39.54	≤10.00	---	---	PASS
				Peak	5925.000	-36.83	≤-27.00	- - -	- - -	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.39 4	≤-27.00	---	---	PASS
				Peak	5700.000	-40	≤10.00	---	---	PASS
				Peak	5720.000	-38.11	≤15.60	---	---	PASS
				Peak	5725.000	-32.1	≤27.00	- - -	- - -	PASS
		High	5825	Peak	5850.000	-36.33 5	≤27.00	---	---	PASS
				Peak	5855.000	-39.37	≤15.60	---	---	PASS
				Peak	5875.000	-38.84	≤10.00	---	---	PASS
				Peak	5925.000	-39.15	≤-27.00	- - -	- - -	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-40.02 1	≤-27.00	---	---	PASS
				Peak	5700.000	-40.86	≤10.00	---	---	PASS
				Peak	5720.000	-33.31	≤15.60	---	---	PASS
				Peak	5725.000	-32.06	≤27.00	- - -	- - -	PASS
		High	5795	Peak	5850.000	-38.37 5	≤27.00	---	---	PASS
				Peak	5855.000	-38.76	≤15.60	---	---	PASS
				Peak	5875.000	-39.32	≤10.00	---	---	PASS
				Peak	5925.000	-39.54	≤-27.00	- - -	- - -	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-40.47	≤-27.00	---	---	PASS
				Peak	5700.000	-38.46	≤10.00	---	---	PASS
				Peak	5720.000	-37.07	≤15.60	---	---	PASS
				Peak	5725.000	-31.71	≤27.00	- - -	- - -	PASS
		High	5825	Peak	5850.000	-35.911	≤27.00	---	---	PASS
				Peak	5855.000	-37.09	≤15.60	---	---	PASS
				Peak	5875.000	-40.21	≤10.00	---	---	PASS
				Peak	5925.000	-39.43	≤-27.00	- - -	- - -	PASS

11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-39.38 8	≤ -27.00	---	---	PASS
				Peak	5700.000	-38.16	≤ 10.00	---	---	PASS
				Peak	5720.000	-33.41	≤ 15.60	---	---	PASS
				Peak	5725.000	-30.08	≤ 27.00	- - -	- - -	PASS
		High	5795	Peak	5850.000	-38.84 3	≤ 27.00	---	---	PASS
				Peak	5855.000	-39.45	≤ 15.60	---	---	PASS
				Peak	5875.000	-39.53	≤ 10.00	---	---	PASS
				Peak	5925.000	-39.52	≤ -27.00	- - -	- - -	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-40.66 1	≤ -27.00	---	---	PASS
				Peak	5700.000	-36.47	≤ 10.00	---	---	PASS
				Peak	5720.000	-30.61	≤ 15.60	---	---	PASS
				Peak	5725.000	-31.62	≤ 27.00	- - -	- - -	PASS
		High	5775	Peak	5850.000	-35.62 4	≤ 27.00	---	---	PASS
				Peak	5855.000	-34.66	≤ 15.60	---	---	PASS
				Peak	5875.000	-37.82	≤ 10.00	---	---	PASS
				Peak	5925.000	-38.73	≤ -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



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

