

Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: MagicDash 4
Test Model: MagicDash 4

Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang Hai
Supervised by:	Fengliu Tang

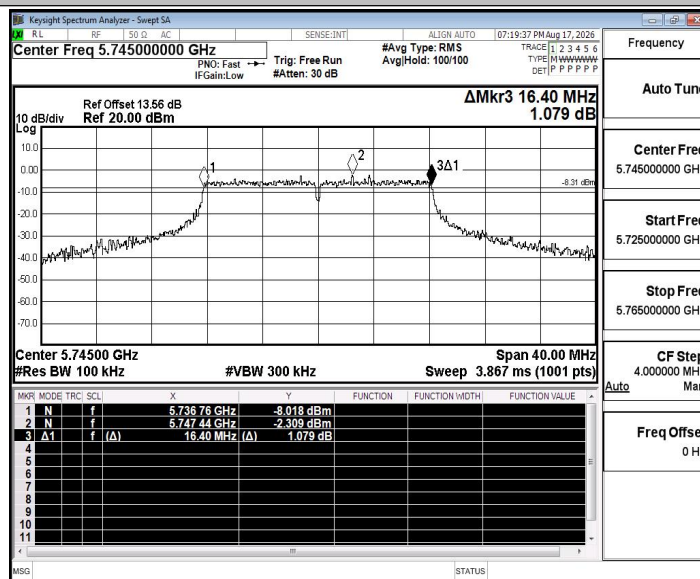
E.1 6dB bandwidth

Test Result

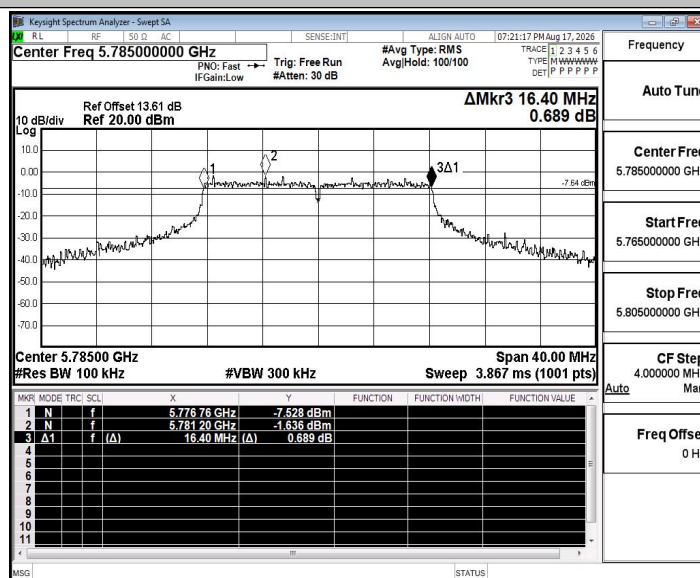
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.400	5736.760	5753.160	0.5	PASS
		5785	16.400	5776.760	5793.160	0.5	PASS
		5825	16.360	5816.760	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.360	5736.400	5753.760	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.600	5816.200	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.080	5736.760	5772.840	0.5	PASS
		5795	36.240	5776.840	5813.080	0.5	PASS
11AC20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.600	5776.160	5793.760	0.5	PASS
		5825	17.640	5816.120	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	36.320	5736.760	5773.080	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AX20SISO	Ant1	5745	18.840	5735.640	5754.480	0.5	PASS
		5785	18.280	5776.160	5794.440	0.5	PASS
		5825	18.640	5815.800	5834.440	0.5	PASS
11AX40SISO	Ant1	5755	38.000	5736.040	5774.040	0.5	PASS
		5795	37.920	5776.040	5813.960	0.5	PASS

Test Graphs

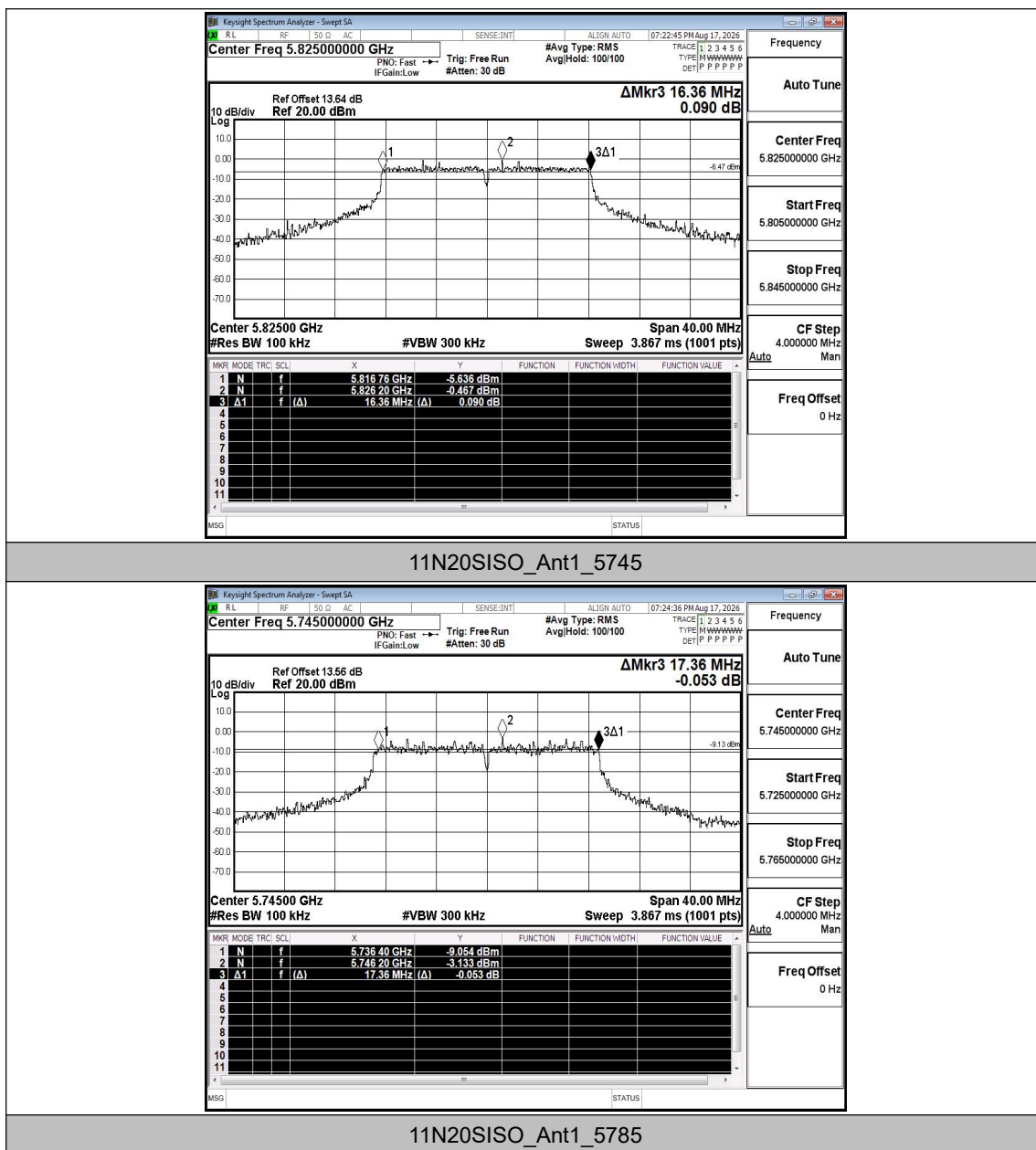
11A_Ant1_5745

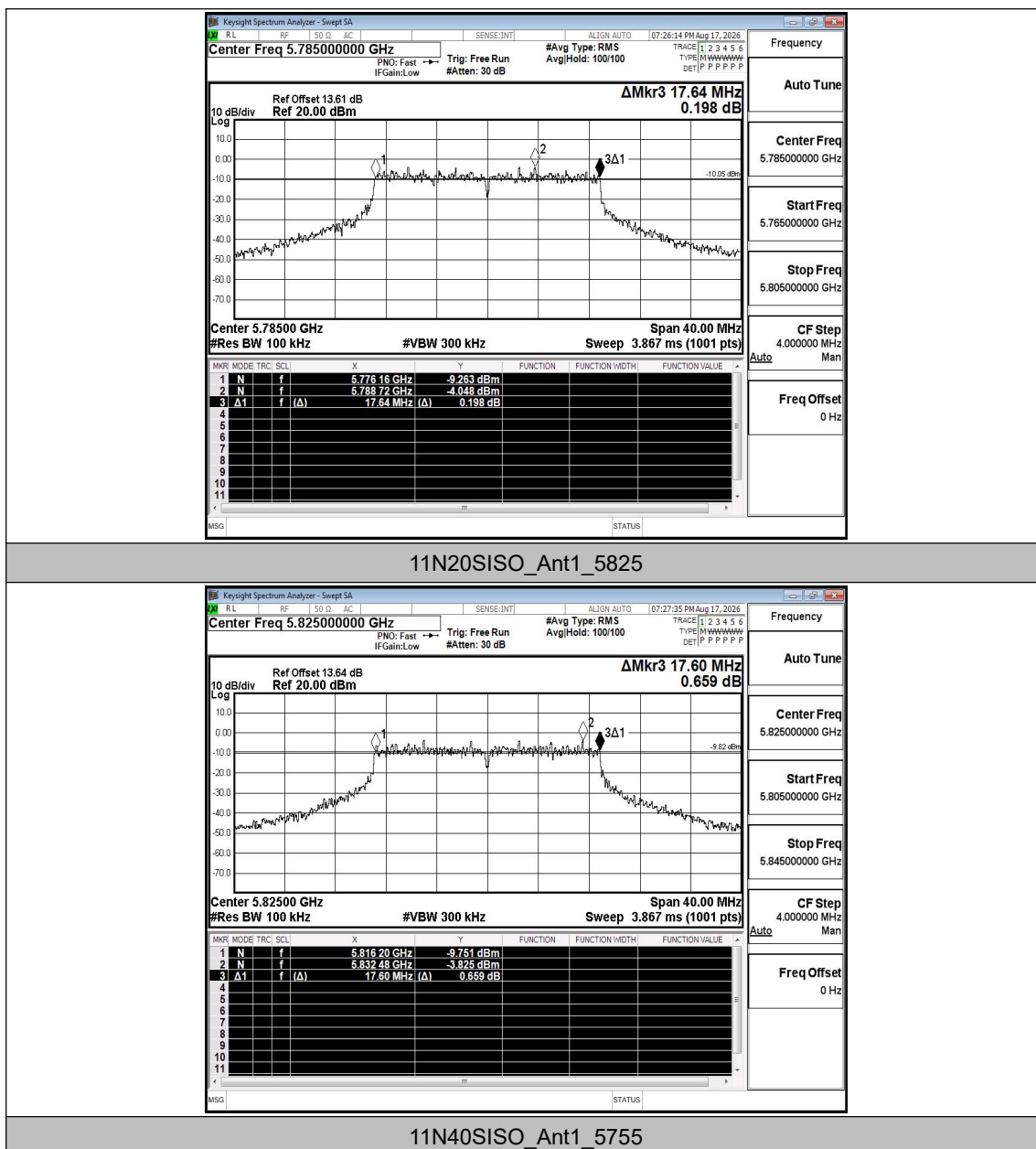


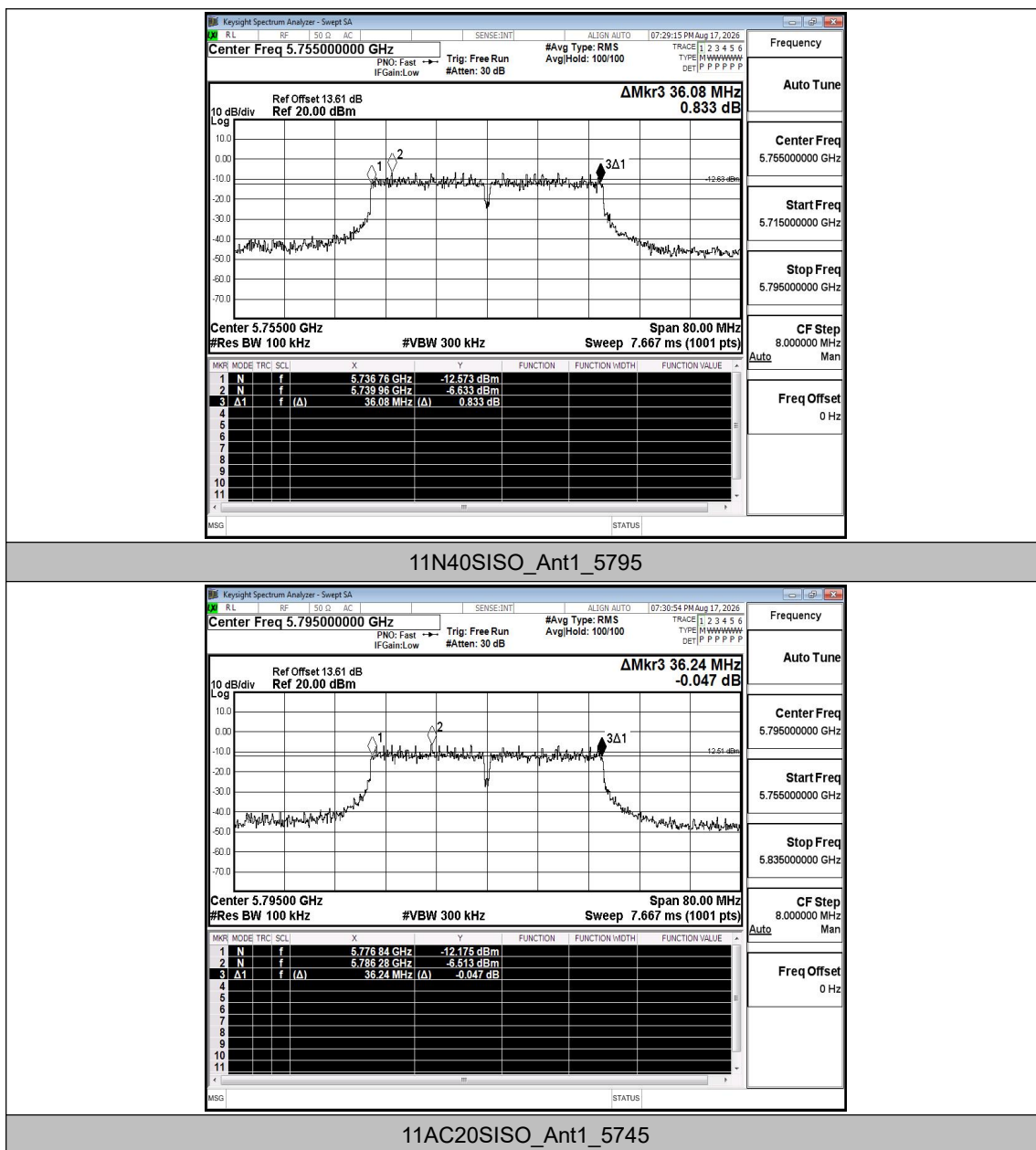
11A_Ant1_5785

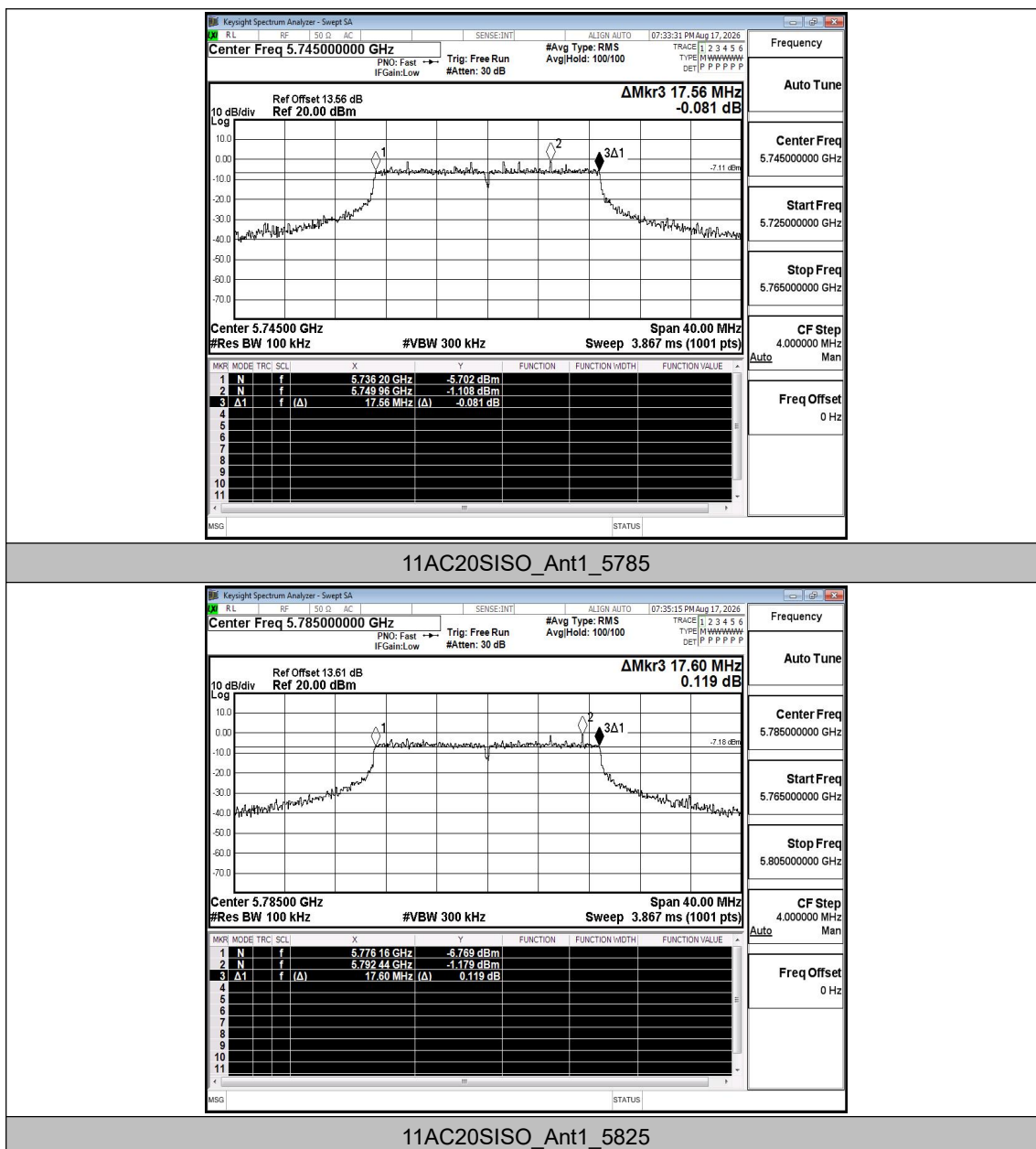


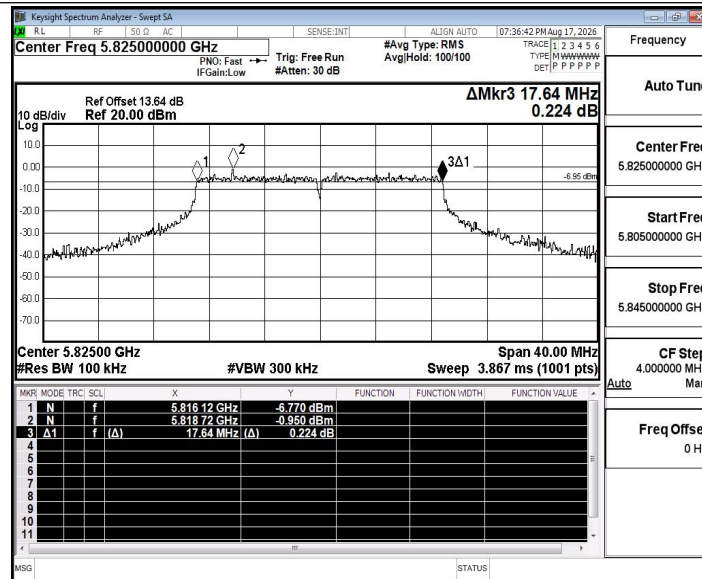
11A_Ant1_5825



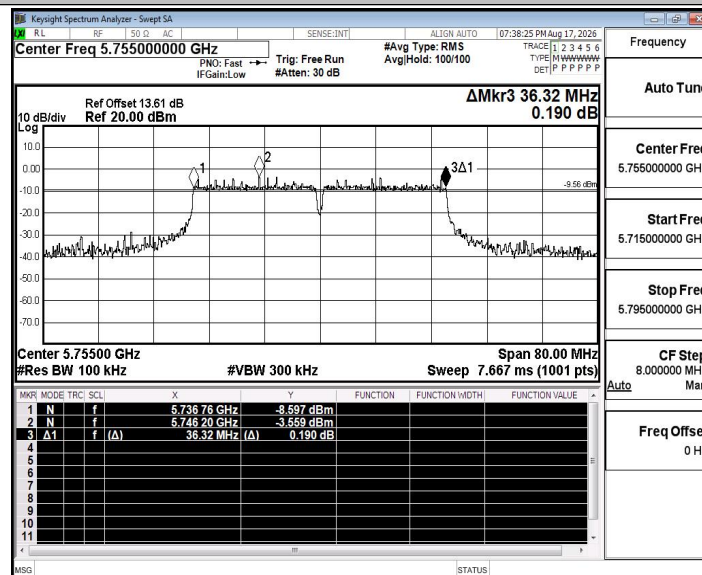




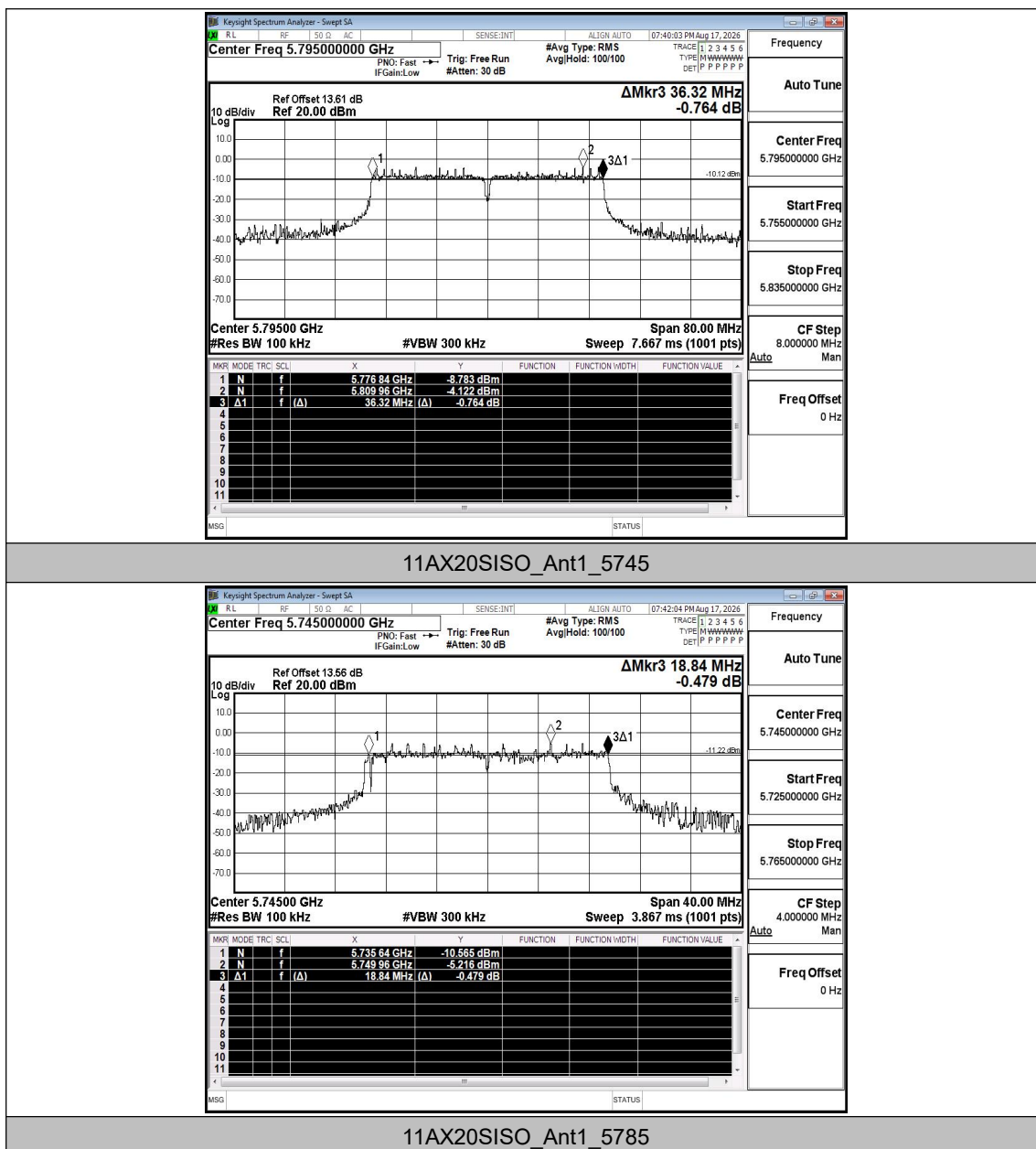


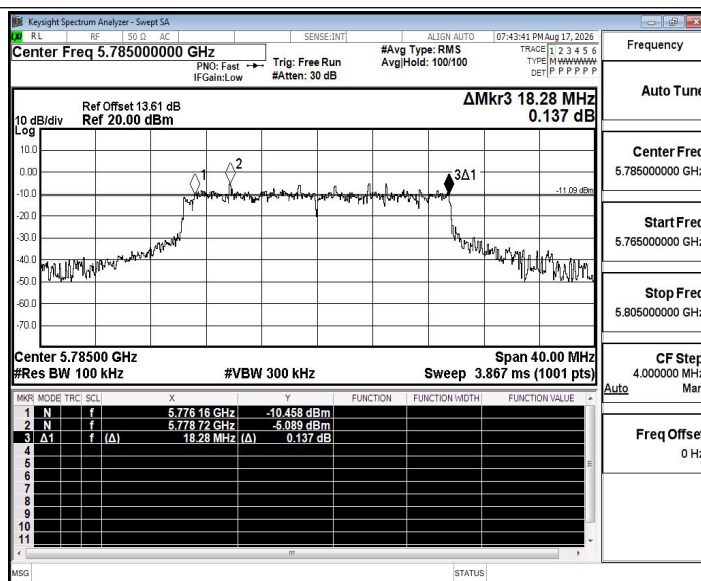


11AC40SISO_Ant1_5755

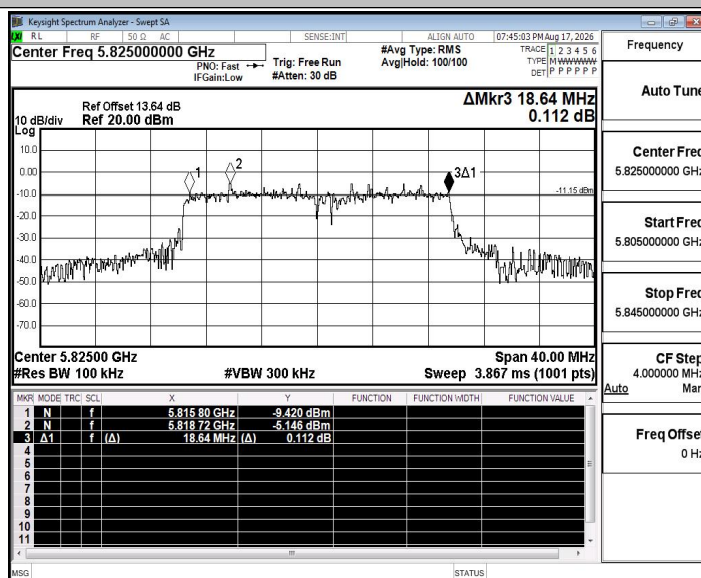


11AC40SISO_Ant1_5795

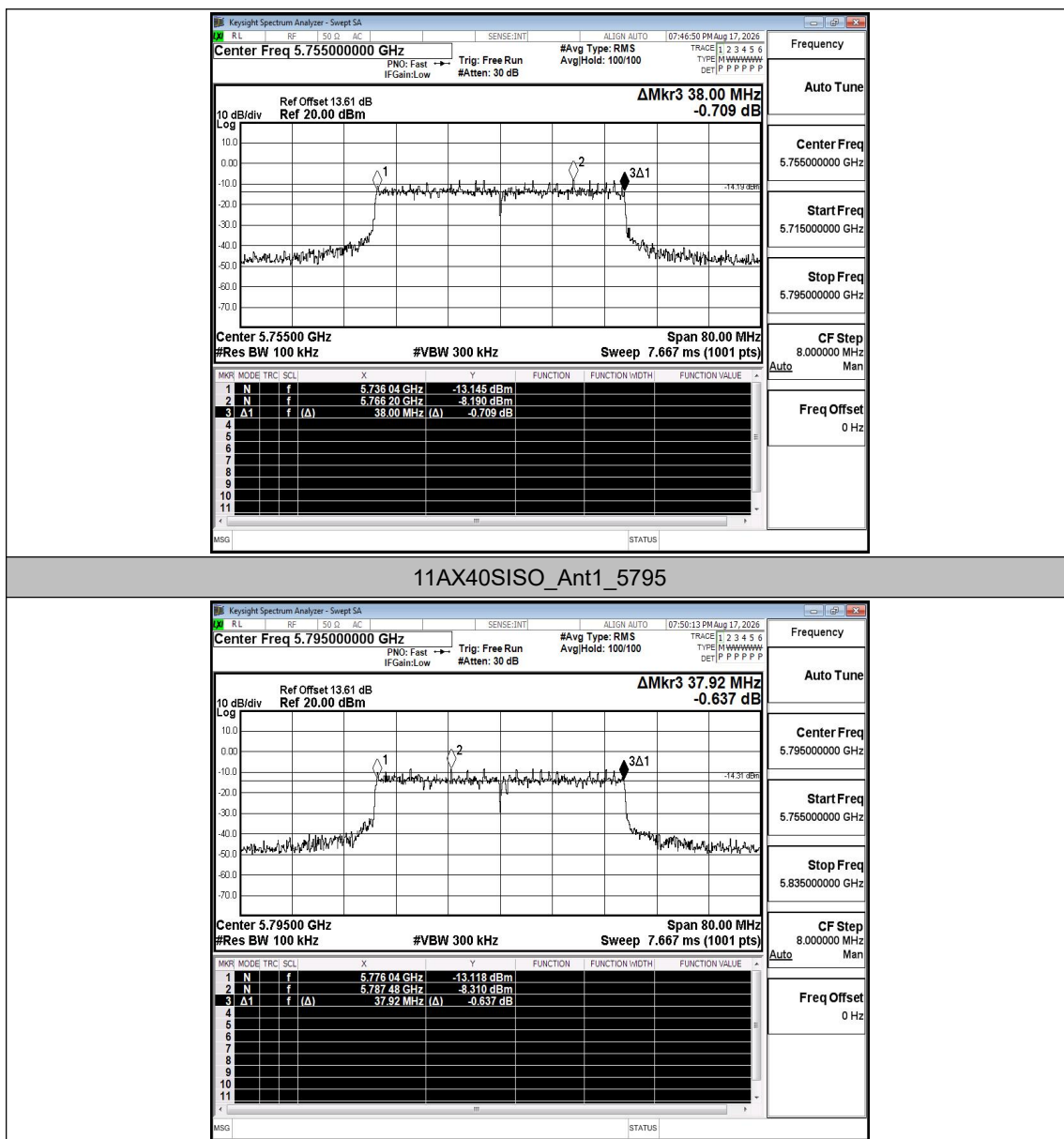




11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



E.2 Maximum conducted output power

Test Result

Test Mode	Antenna	Freq(MHz)	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	9.90	1.78	11.68	≤30.00	PASS
		5785	10.53	1.77	12.30	≤30.00	PASS
		5825	10.61	1.78	12.39	≤30.00	PASS
11N20SISO	Ant1	5745	2.06	7.54	9.60	≤30.00	PASS
		5785	1.70	7.35	9.05	≤30.00	PASS
		5825	1.77	7.35	9.12	≤30.00	PASS
11N40SISO	Ant1	5755	-0.04	9.47	9.43	≤30.00	PASS
		5795	-0.25	9.82	9.57	≤30.00	PASS
11AC20SISO	Ant1	5745	9.92	1.88	11.80	≤30.00	PASS
		5785	10.23	1.88	12.11	≤30.00	PASS
		5825	10.37	1.89	12.26	≤30.00	PASS
11AC40SISO	Ant1	5755	8.67	3.21	11.88	≤30.00	PASS
		5795	8.69	3.19	11.88	≤30.00	PASS
11AX20SISO	Ant1	5745	-0.93	9.22	8.29	≤30.00	PASS
		5785	-1.10	9.22	8.12	≤30.00	PASS
		5825	-1.11	8.92	7.81	≤30.00	PASS
11AX40SISO	Ant1	5755	-2.43	10.49	8.06	≤30.00	PASS
		5795	-2.48	10.53	8.05	≤30.00	PASS

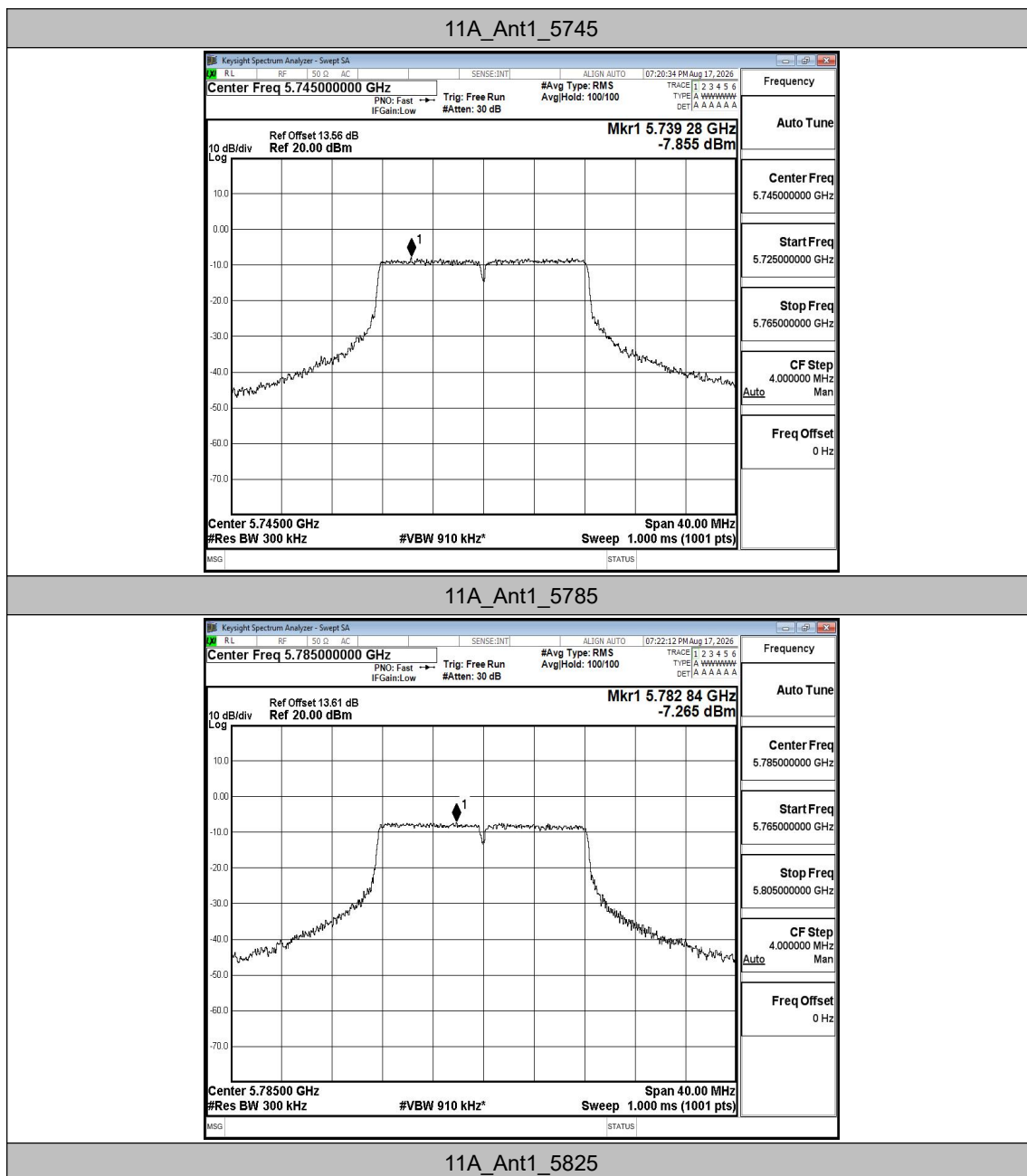
E.3 Maximum power spectral density

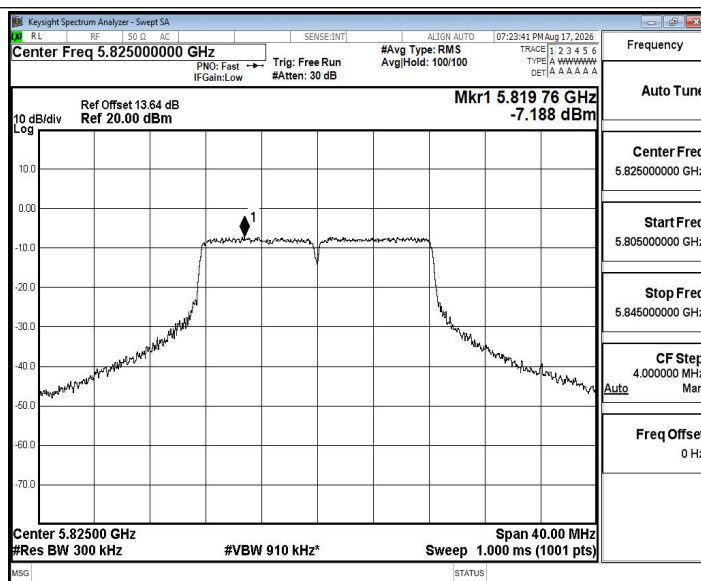
Test Result

TestMode	Antenna	Freq (MHz)	Raw Data [dBm/500K Hz]	DC Factor	RBW Factor	Result [dBm/500K Hz]	Limit [dBm/500K Hz]	Verdict
11A	Ant1	5745	-7.86	1.78	2.22	-3.86	≤30.00	PASS
		5785	-7.27	1.77	2.22	-3.28	≤30.00	PASS
		5825	-7.19	1.78	2.22	-3.19	≤30.00	PASS
11N20SISO	Ant1	5745	-14.07	7.54	2.22	-4.31	≤30.00	PASS
		5785	-15.13	7.35	2.22	-5.56	≤30.00	PASS
		5825	-13.95	7.35	2.22	-4.38	≤30.00	PASS
11N40SISO	Ant1	5755	-19.09	9.47	2.22	-7.40	≤30.00	PASS
		5795	-18.7	9.82	2.22	-6.66	≤30.00	PASS
11AC20SISO	Ant1	5745	-8.45	1.88	2.22	-4.35	≤30.00	PASS
		5785	-7.4	1.88	2.22	-3.30	≤30.00	PASS
		5825	-7.91	1.89	2.22	-3.80	≤30.00	PASS
11AC40SISO	Ant1	5755	-11.65	3.21	2.22	-6.22	≤30.00	PASS
		5795	-12.16	3.19	2.22	-6.75	≤30.00	PASS
11AX20SISO	Ant1	5745	-16.87	9.22	2.22	-5.43	≤30.00	PASS
		5785	-17.75	9.22	2.22	-6.31	≤30.00	PASS
		5825	-17.36	8.92	2.22	-6.22	≤30.00	PASS
11AX40SISO	Ant1	5755	-22.32	10.49	2.22	-9.61	≤30.00	PASS
		5795	-22.23	10.53	2.22	-9.48	≤30.00	PASS

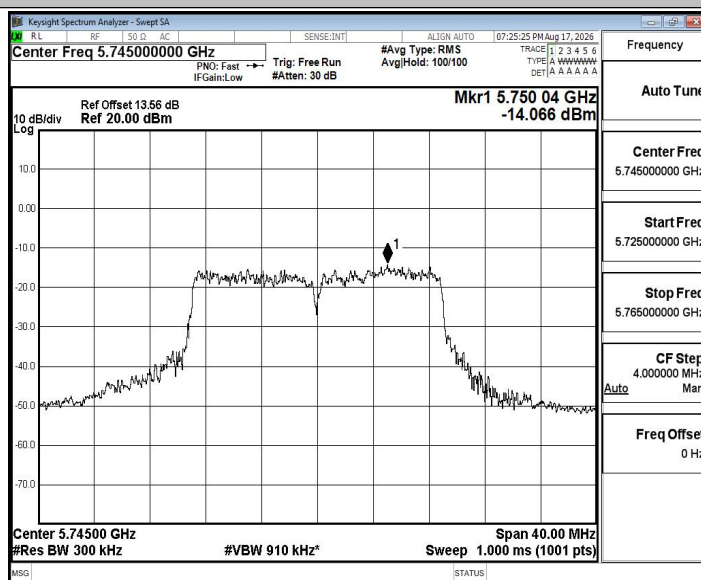
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

Test Graphs

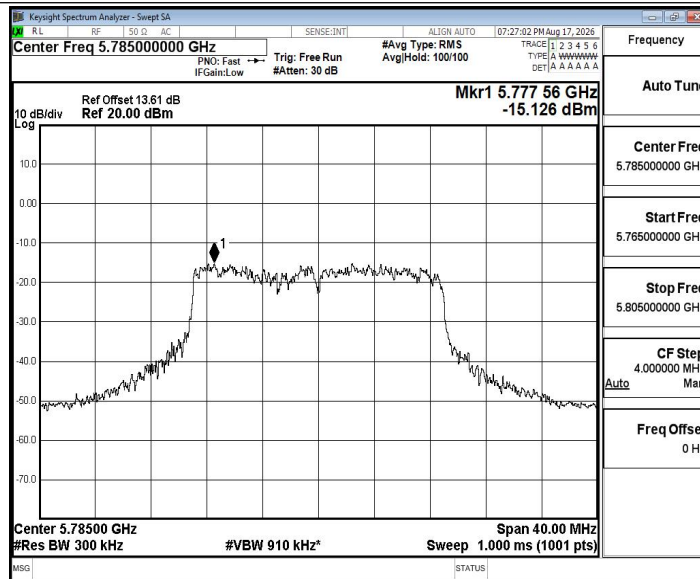




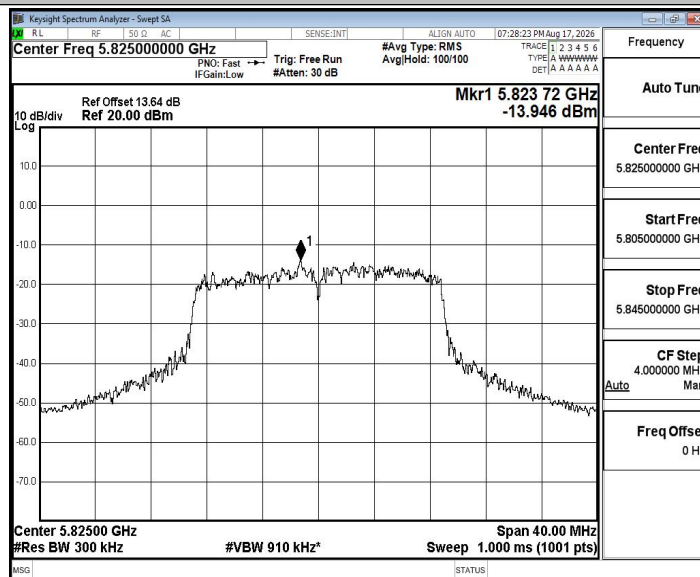
11N20SISO_Ant1_5745



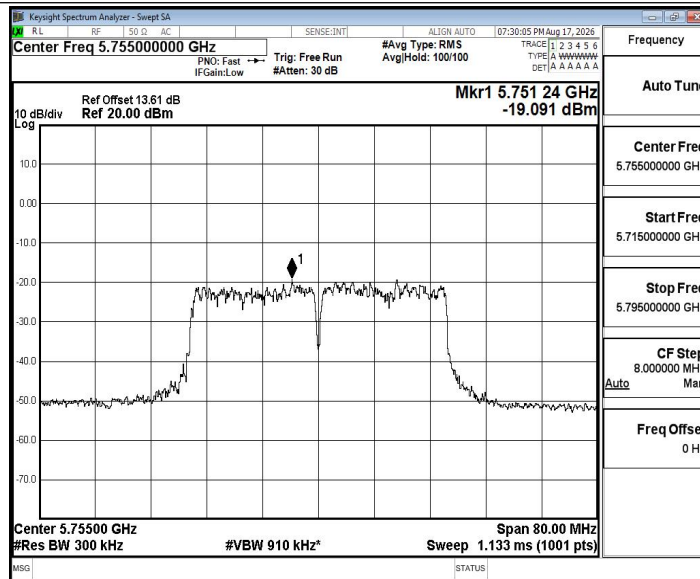
11N20SISO_Ant1_5785



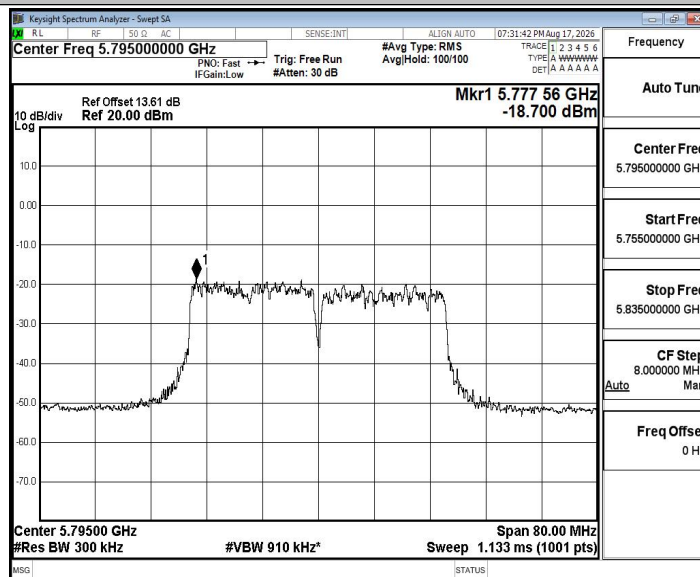
11N20SISO_Ant1_5825



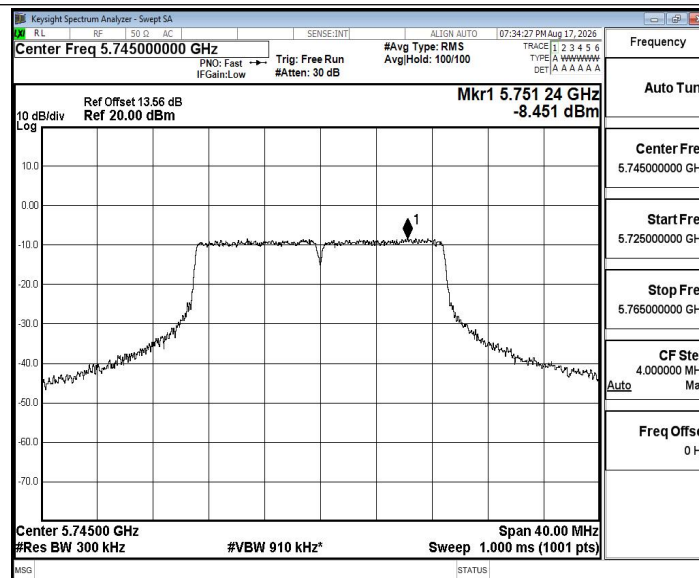
11N40SISO_Ant1_5755



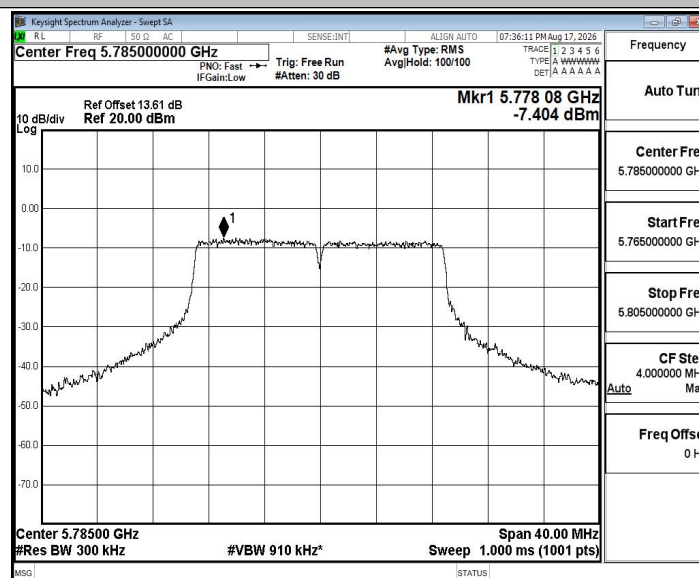
11N40SISO_Ant1_5795



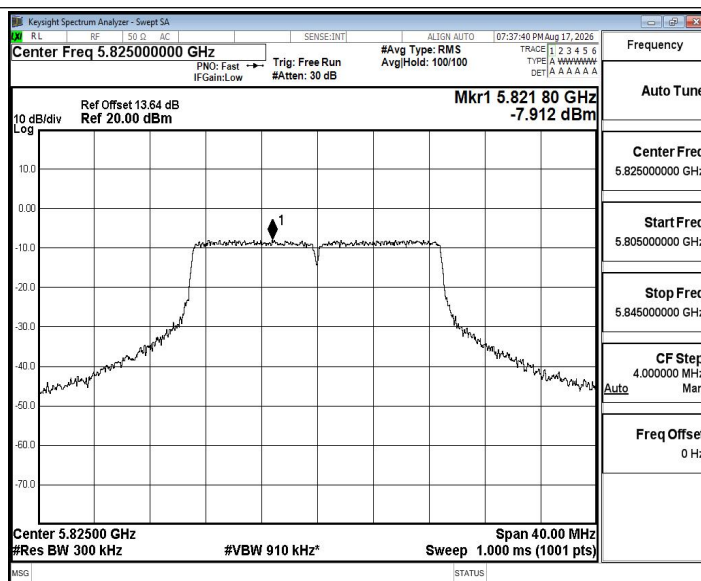
11AC20SISO_Ant1_5745



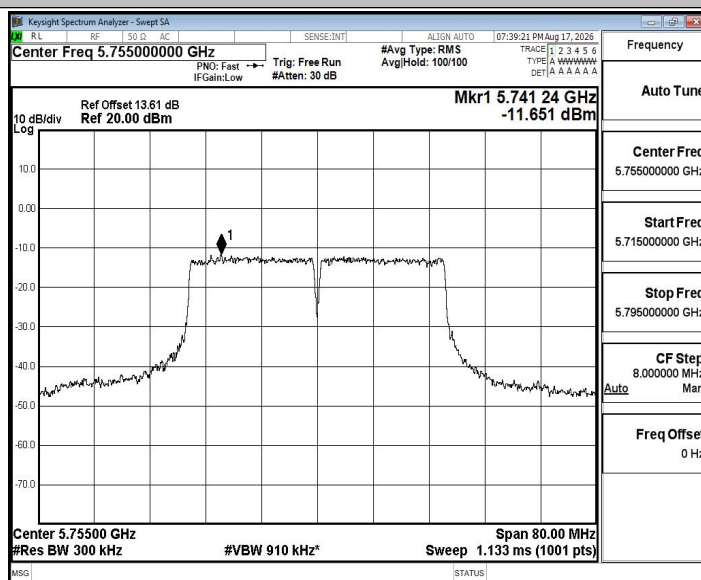
11AC20SISO_Ant1_5785



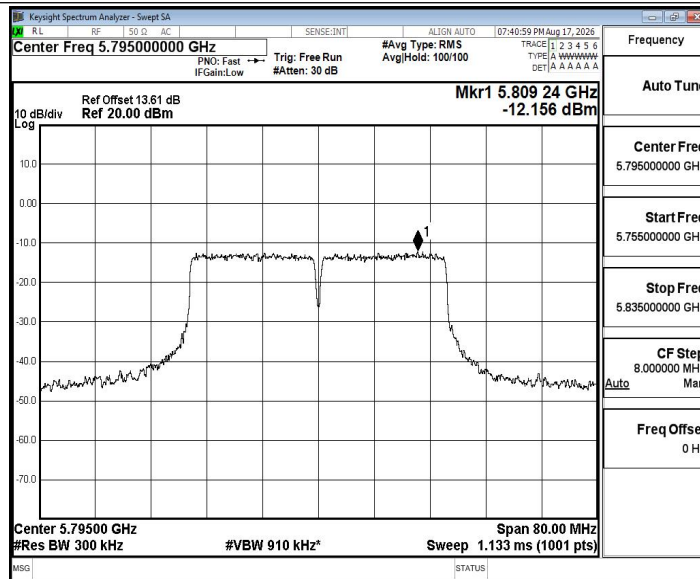
11AC20SISO_Ant1_5825



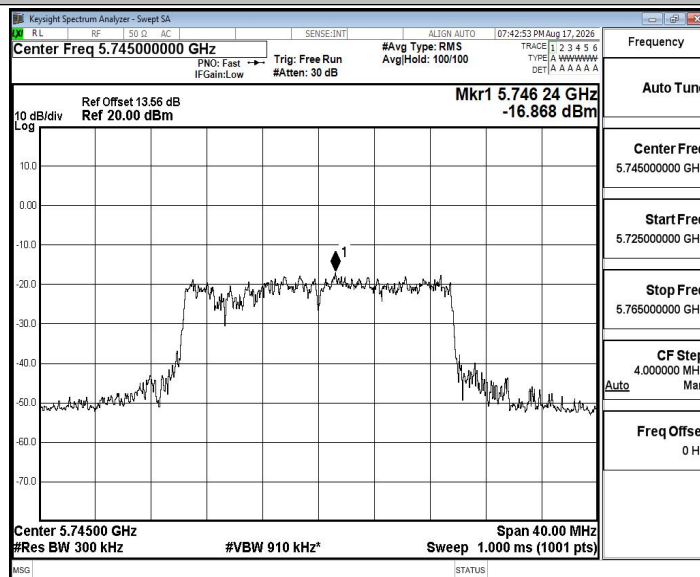
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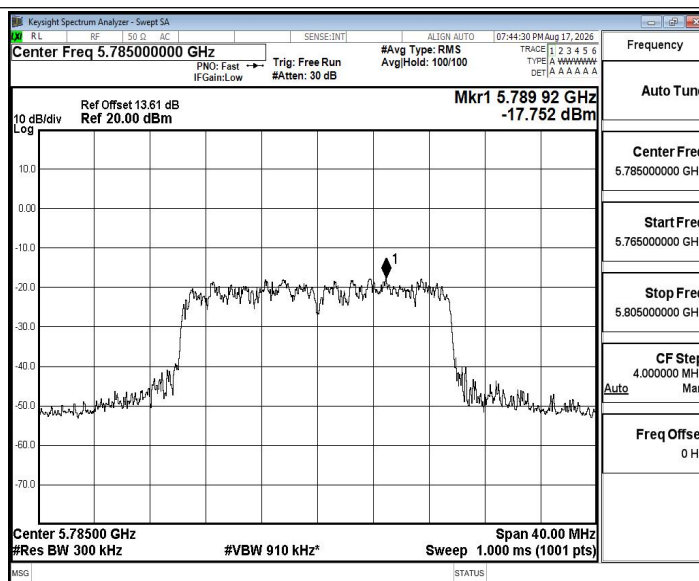
11AC40SISO_Ant1_5795



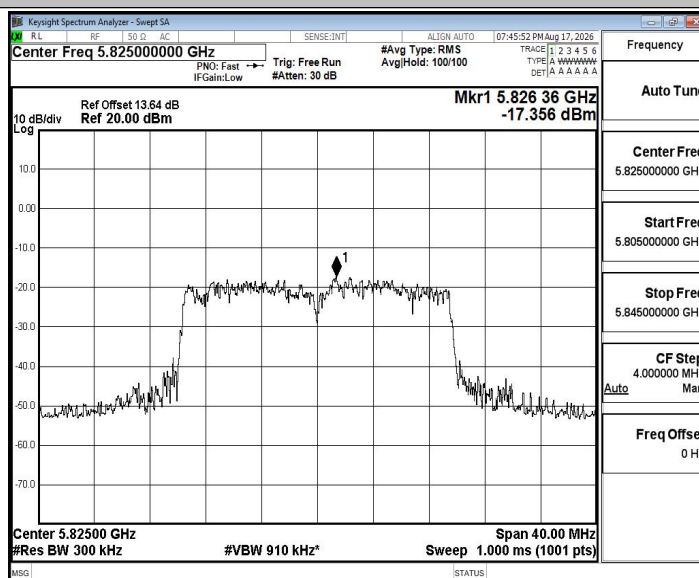
11AX20SISO_Ant1_5745



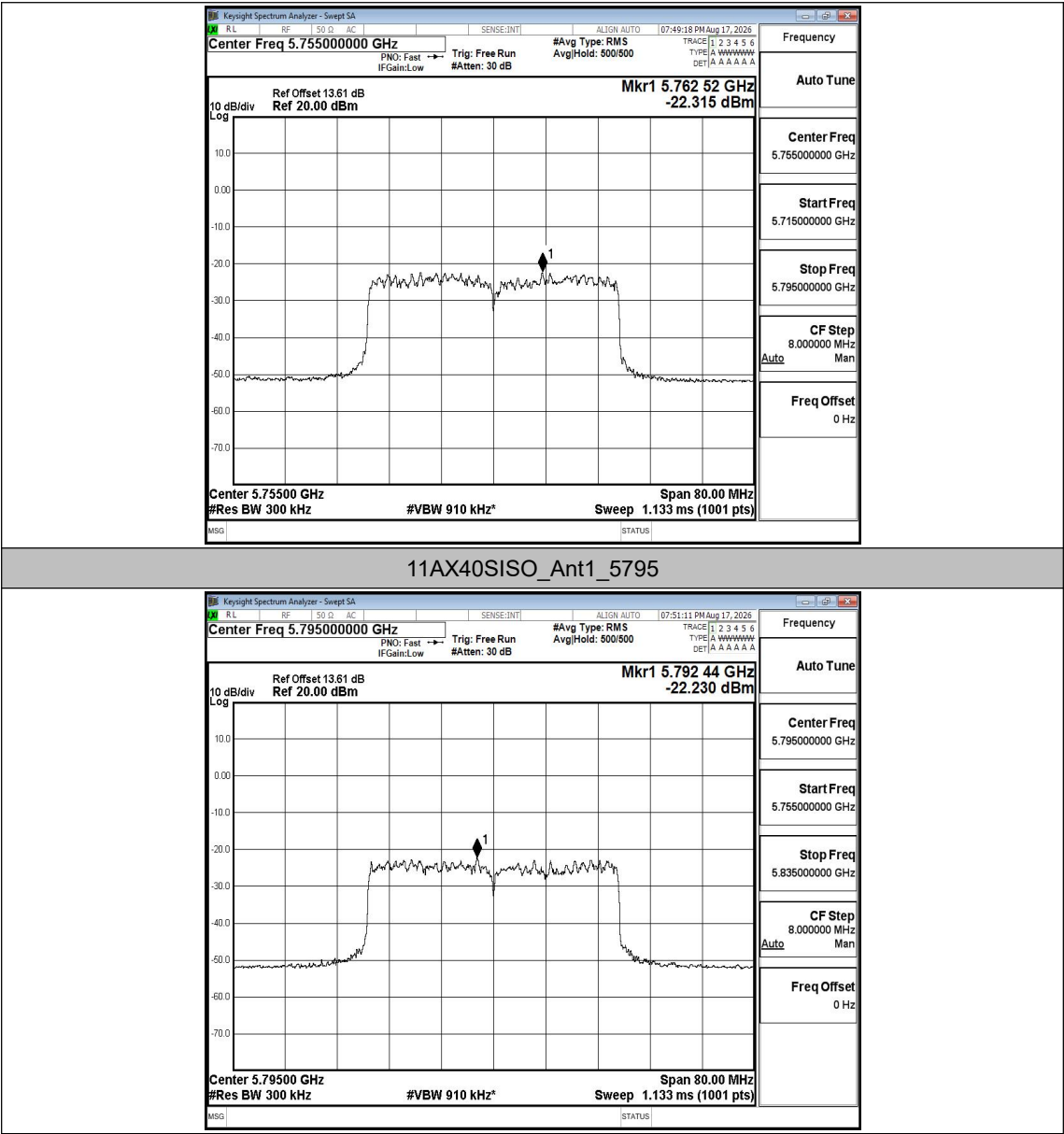
11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



E.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-47.947	≤-30.99	3.99	PASS
				Peak	5700.000	-42.5	≤6.01	3.99	PASS
				Peak	5720.000	-32.12	≤11.61	3.99	PASS
				Peak	5725.000	-26.88	≤23.01	3.99	PASS
		High	5825	Peak	5850.000	-26.738	≤23.01	3.99	PASS
				Peak	5855.000	-34.63	≤11.61	3.99	PASS
				Peak	5875.000	-39.03	≤6.01	3.99	PASS
				Peak	5925.000	-48.33	≤-27.00	3.99	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-49.614	≤-30.99	3.99	PASS
				Peak	5700.000	-49.13	≤6.01	3.99	PASS
				Peak	5720.000	-39.53	≤11.61	3.99	PASS
				Peak	5725.000	-32.42	≤23.01	3.99	PASS
		High	5825	Peak	5850.000	-42.151	≤23.01	3.99	PASS
				Peak	5855.000	-44.1	≤11.61	3.99	PASS
				Peak	5875.000	-48.94	≤6.01	3.99	PASS
				Peak	5925.000	-51.84	≤-27.00	3.99	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-48.783	≤-30.99	3.99	PASS
				Peak	5700.000	-40.56	≤6.01	3.99	PASS
				Peak	5720.000	-33.06	≤11.61	3.99	PASS
				Peak	5725.000	-35.02	≤23.01	3.99	PASS
		High	5795	Peak	5850.000	-47.652	≤23.01	3.99	PASS
				Peak	5855.000	-45.62	≤11.61	3.99	PASS
				Peak	5875.000	-47.09	≤6.01	3.99	PASS
				Peak	5925.000	-50.27	≤-27.00	3.99	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-49.054	≤-30.99	3.99	PASS
				Peak	5700.000	-43.65	≤6.01	3.99	PASS
				Peak	5720.000	-31.56	≤11.61	3.99	PASS
				Peak	5725.000	-27.94	≤23.01	3.99	PASS
		High	5825	Peak	5850.000	-28.074	≤23.01	3.99	PASS
				Peak	5855.000	-29.48	≤11.61	3.99	PASS
				Peak	5875.000	-40.93	≤6.01	3.99	PASS
				Peak	5925.000	-48.56	≤-27.00	3.99	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-44.047	≤-30.99	3.99	PASS
				Peak	5700.000	-36.79	≤6.01	3.99	PASS
				Peak	5720.000	-29.12	≤11.61	3.99	PASS
				Peak	5725.000	-25.9	≤23.01	3.99	PASS

		High	5795	Peak	5850.000	-32.177	≤23.01	3.99	PASS
				Peak	5855.000	-31.09	≤11.61	3.99	PASS
				Peak	5875.000	-41.42	≤6.01	3.99	PASS
				Peak	5925.000	-47.32	≤-27.00	3.99	PASS
11AX20SISO	Ant1	Low	5745	Peak	5650.000	-51.704	≤-30.99	3.99	PASS
				Peak	5700.000	-47.65	≤6.01	3.99	PASS
				Peak	5720.000	-38.85	≤11.61	3.99	PASS
				Peak	5725.000	-36.01	≤23.01	3.99	PASS
		High	5825	Peak	5850.000	-38.792	≤23.01	3.99	PASS
				Peak	5855.000	-46.9	≤11.61	3.99	PASS
				Peak	5875.000	-51.73	≤6.01	3.99	PASS
				Peak	5925.000	-52.24	≤-27.00	3.99	PASS
11AX40SISO	Ant1	Low	5755	Peak	5650.000	-50.235	≤-30.99	3.99	PASS
				Peak	5700.000	-40.76	≤6.01	3.99	PASS
				Peak	5720.000	-28.47	≤11.61	3.99	PASS
				Peak	5725.000	-35.44	≤23.01	3.99	PASS
		High	5795	Peak	5850.000	-38.776	≤23.01	3.99	PASS
				Peak	5855.000	-41.32	≤11.61	3.99	PASS
				Peak	5875.000	-50.77	≤6.01	3.99	PASS
				Peak	5925.000	-50.88	≤-27.00	3.99	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

