

Appendix E: Maximum conducted output power

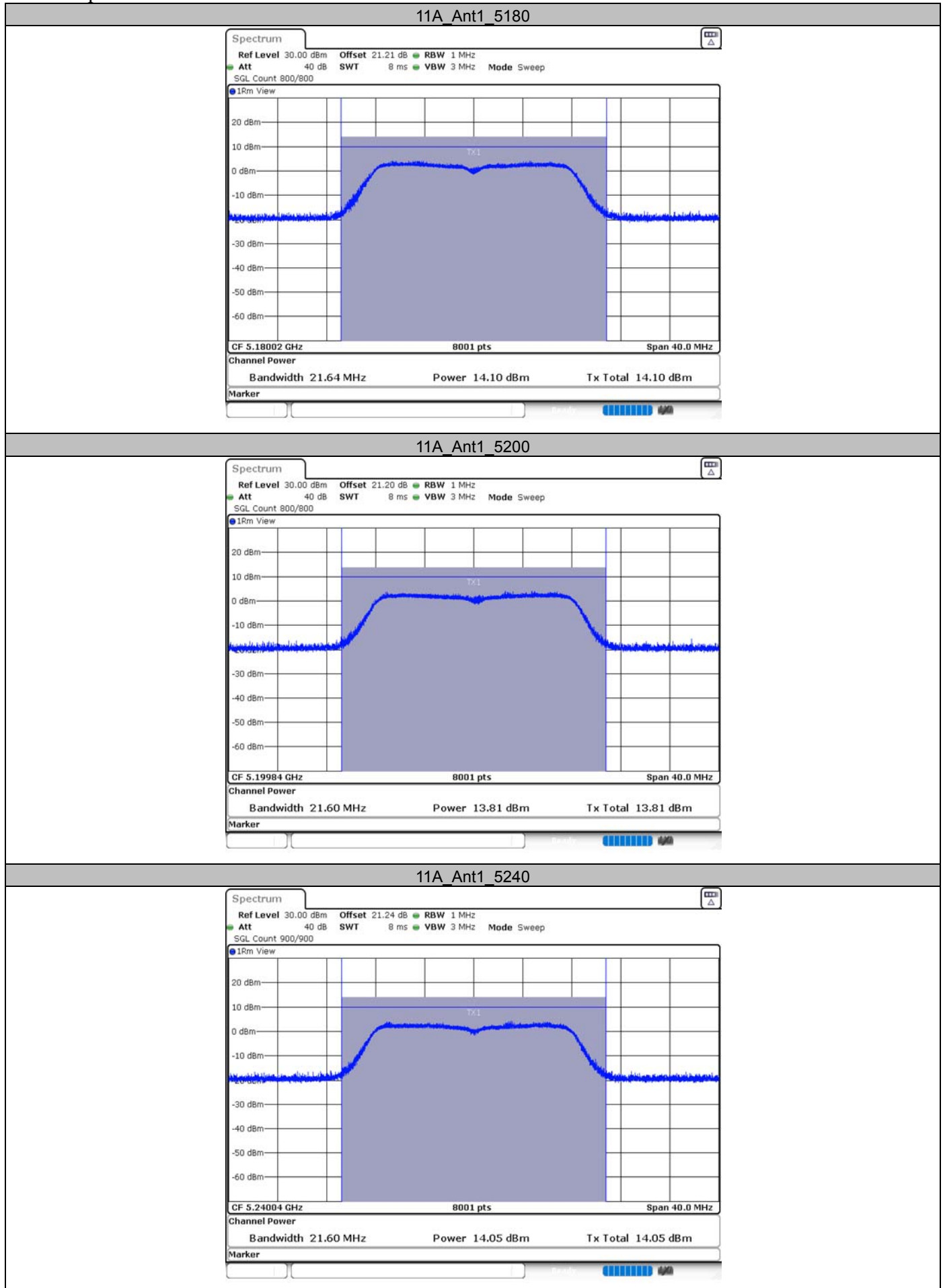
Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	Verdict
11A	Ant1	5180	---	13.82	93.67	0.28	14.10	≤23.98	2.30	PASS
		5200	---	13.49	92.83	0.32	13.81	≤23.98	2.30	PASS
		5240	---	13.89	96.28	0.16	14.05	≤23.98	2.30	PASS
		5260	---	13.42	92.41	0.34	13.76	≤23.98	2.30	PASS
		5300	---	14.18	95.39	0.20	14.38	≤23.98	2.30	PASS
		5320	---	14.51	96.73	0.14	14.65	≤23.98	2.30	PASS
		5500	---	17.23	94.93	0.23	17.46	≤23.98	2.30	PASS
		5580	---	18.13	97.64	0.10	18.23	≤23.98	2.30	PASS
		5700	---	17.40	94.95	0.23	17.63	≤23.98	2.30	PASS
		5745	---	16.54	95.83	0.18	16.72	≤30.00	2.30	PASS
		5785	---	15.46	97.18	0.12	15.58	≤30.00	2.30	PASS
		5825	---	14.50	98.10	0.08	14.58	≤30.00	2.30	PASS
11N20 SISO	Ant1	5180	---	13.99	97.18	0.12	14.11	≤23.98	2.30	PASS
		5200	---	13.71	97.64	0.10	13.81	≤23.98	2.30	PASS
		5240	---	13.71	92.41	0.34	14.05	≤23.98	2.30	PASS
		5260	---	13.72	97.18	0.12	13.84	≤23.98	2.30	PASS
		5300	---	13.19	94.06	0.27	13.46	≤23.98	2.30	PASS
		5320	---	13.25	94.09	0.26	13.51	≤23.98	2.30	PASS
		5500	---	16.12	96.28	0.16	16.28	≤23.98	2.30	PASS
		5580	---	17.09	92.83	0.32	17.41	≤23.98	2.30	PASS
		5700	---	16.49	92.83	0.32	16.81	≤23.98	2.30	PASS
		5745	---	15.62	94.95	0.23	15.85	≤30.00	2.30	PASS
		5785	---	15.40	94.52	0.24	15.64	≤30.00	2.30	PASS
		5825	---	14.54	95.39	0.20	14.74	≤30.00	2.30	PASS
11N40 SISO	Ant1	5190	---	13.06	92.23	0.35	13.41	≤23.98	2.30	PASS
		5230	---	13.11	89.52	0.48	13.59	≤23.98	2.30	PASS
		5270	---	12.57	84.82	0.72	13.29	≤23.98	2.30	PASS
		5310	---	13.13	83.93	0.76	13.89	≤23.98	2.30	PASS
		5510	---	16.05	84.68	0.72	16.77	≤23.98	2.30	PASS
		5590	---	17.05	91.35	0.39	17.44	≤23.98	2.30	PASS
		5670	---	18.56	85.59	0.68	19.24	≤23.98	2.30	PASS
		5755	---	15.54	84.82	0.72	16.26	≤30.00	2.30	PASS
		5795	---	15.07	89.52	0.48	15.55	≤30.00	2.30	PASS
11AC2 OSISO	Ant1	5180	---	13.70	91.47	0.39	14.09	≤23.98	2.30	PASS
		5200	---	13.33	91.90	0.37	13.70	≤23.98	2.30	PASS
		5240	---	13.18	96.52	0.15	13.33	≤23.98	2.30	PASS

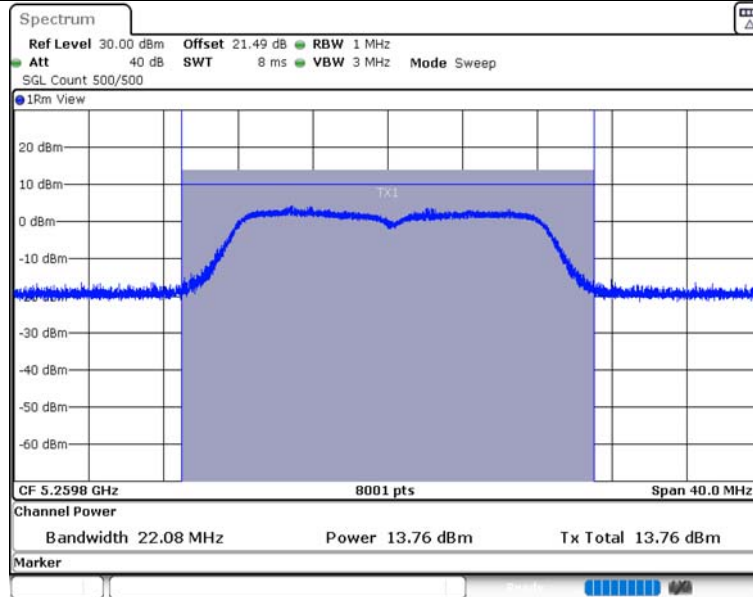
		5260	---	13.07	94.63	0.24	13.31	≤23.98	2.30	PASS
		5300	---	13.24	91.94	0.36	13.60	≤23.98	2.30	PASS
		5320	---	13.19	92.82	0.32	13.51	≤23.98	2.30	PASS
		5500	---	16.14	94.17	0.26	16.40	≤23.98	2.30	PASS
		5580	---	17.46	96.04	0.18	17.64	≤23.98	2.30	PASS
		5700	---	16.42	92.79	0.32	16.74	≤23.98	2.30	PASS
		5745	---	15.65	96.50	0.15	15.80	≤30.00	2.30	PASS
		5785	---	14.44	95.10	0.22	14.66	≤30.00	2.30	PASS
		5825	---	13.33	94.17	0.26	13.59	≤30.00	2.30	PASS
11AC4 0SISO	Ant1	5190	---	14.04	86.36	0.64	14.68	≤23.98	2.30	PASS
		5230	---	13.78	85.71	0.67	14.45	≤23.98	2.30	PASS
		5270	---	12.73	88.07	0.55	13.28	≤23.98	2.30	PASS
		5310	---	13.16	84.82	0.72	13.88	≤23.98	2.30	PASS
		5510	---	16.09	90.57	0.43	16.52	≤23.98	2.30	PASS
		5590	---	16.99	88.79	0.52	17.51	≤23.98	2.30	PASS
		5670	---	19.75	86.49	0.63	20.38	≤23.98	2.30	PASS
		5755	---	15.44	84.82	0.72	16.16	≤30.00	2.30	PASS
		5795	---	14.01	85.59	0.68	14.69	≤30.00	2.30	PASS
11AC8 0SISO	Ant1	5210	---	13.98	73.02	1.37	15.35	≤23.98	2.30	PASS
		5290	---	13.33	75.41	1.23	14.56	≤23.98	2.30	PASS
		5530	---	17.19	73.02	1.37	18.56	≤23.98	2.30	PASS
		5610	---	18.17	73.02	1.37	19.54	≤23.98	2.30	PASS
		5775	---	15.03	71.88	1.43	16.46	≤30.00	2.30	PASS

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

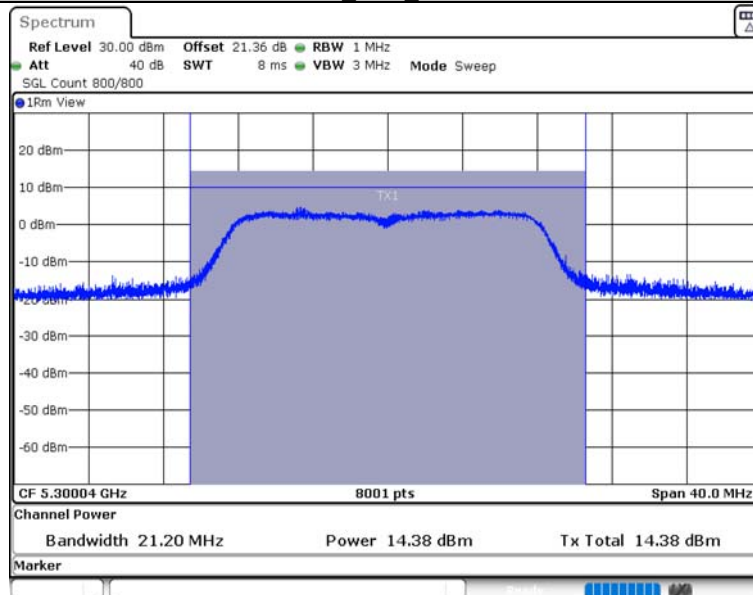
Test Graphs Channel Power



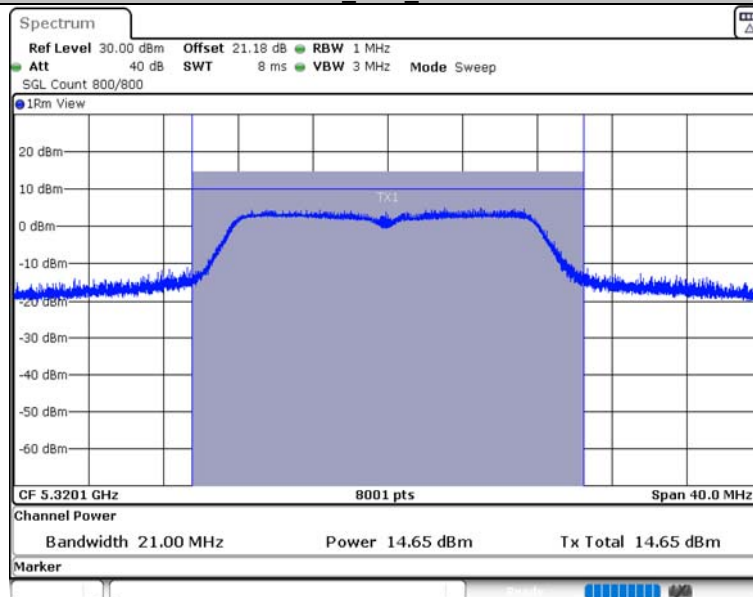
11A_Ant1_5260



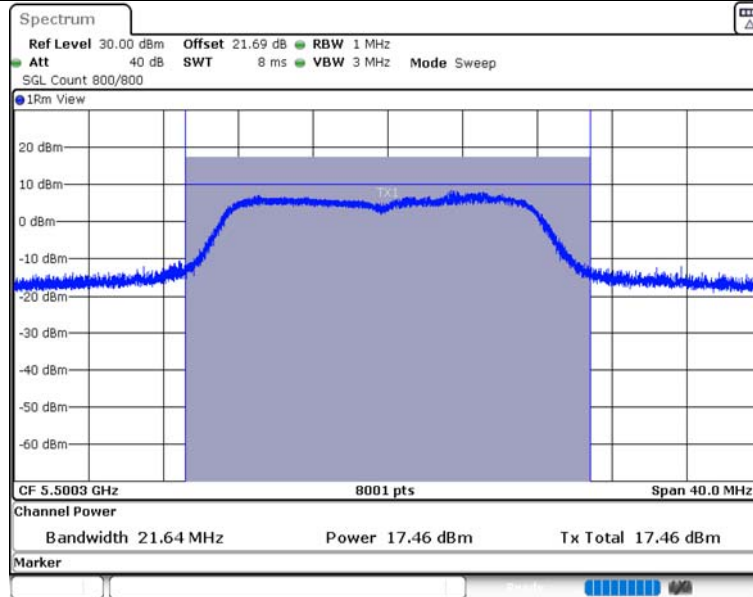
11A_Ant1_5300



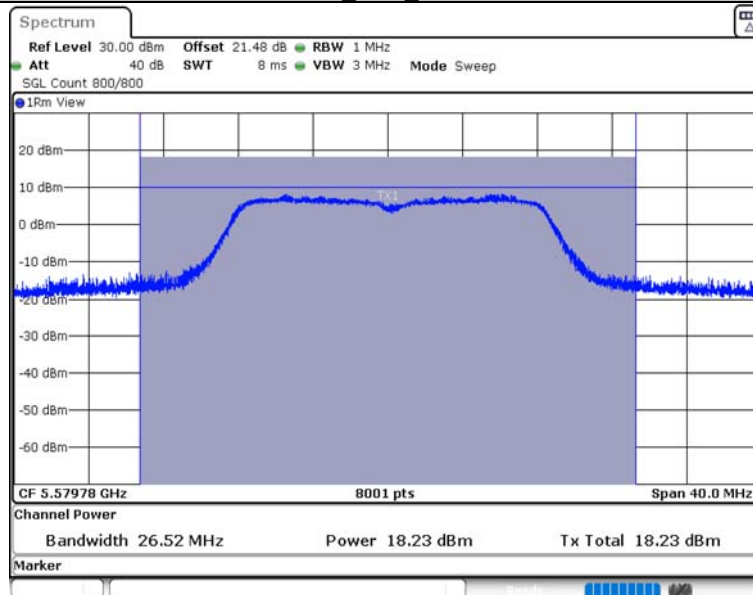
11A_Ant1_5320



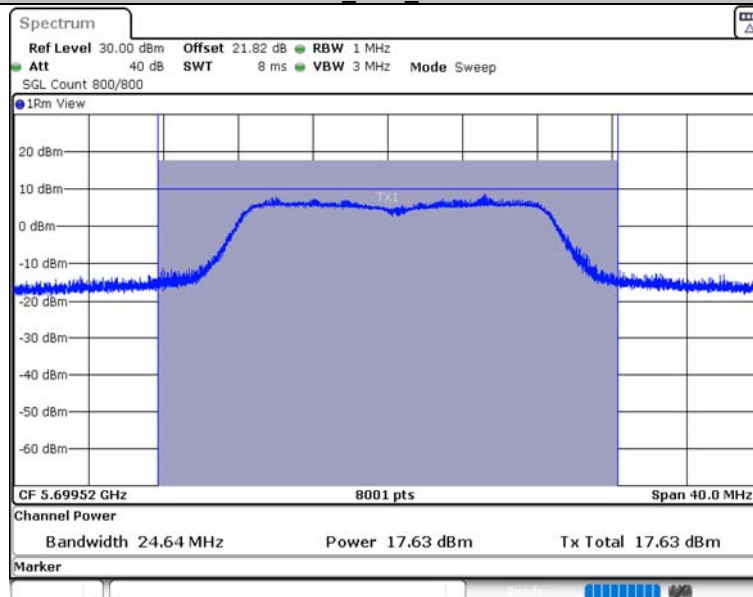
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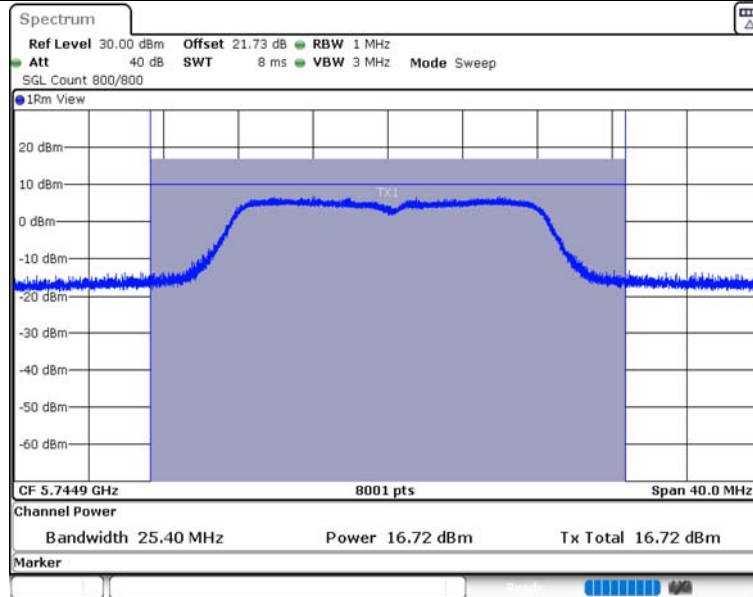
11A_Ant1_5580



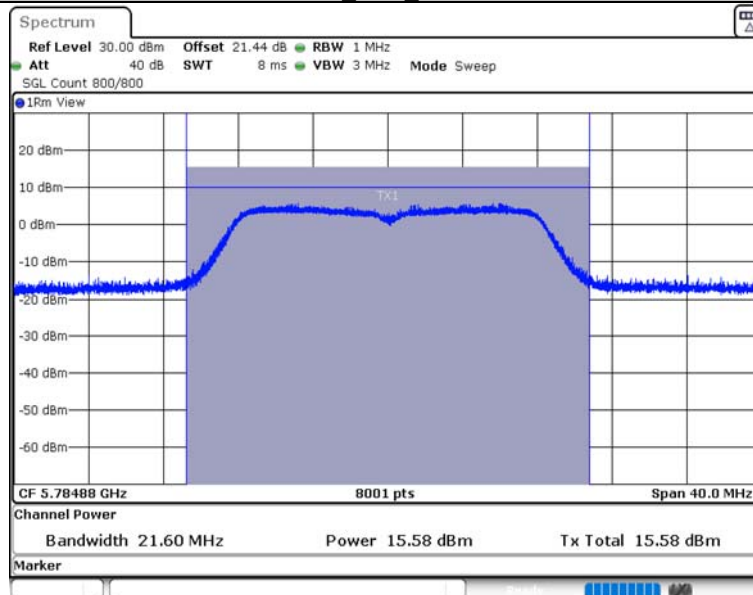
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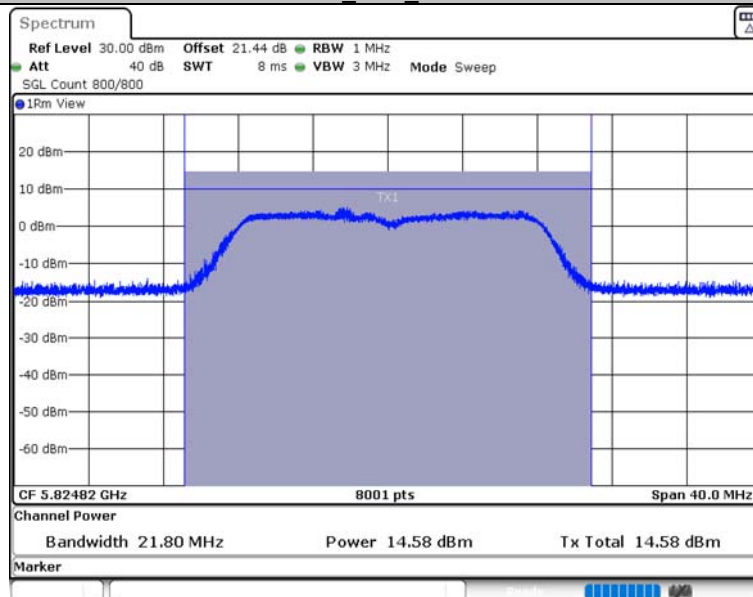
11A_Ant1_5745



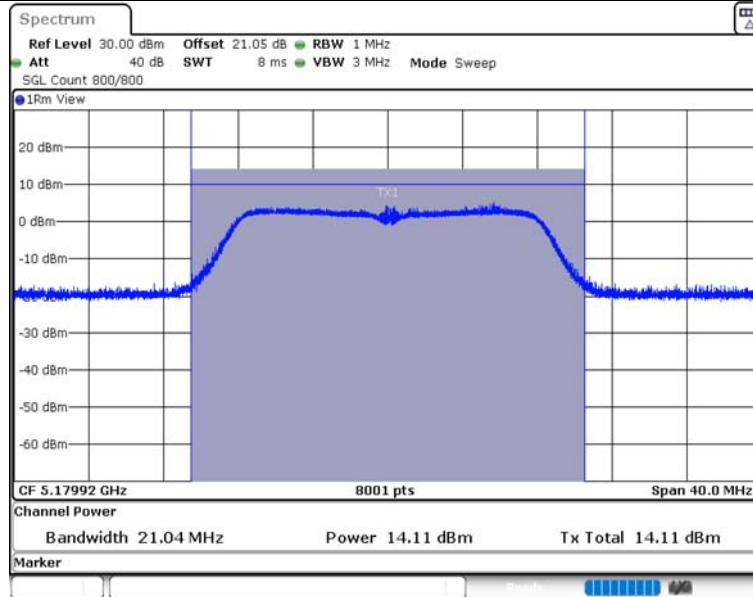
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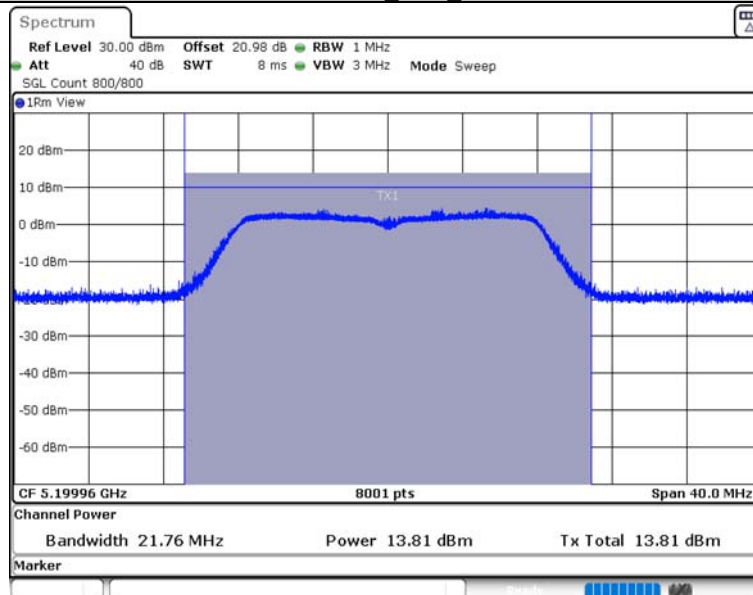
11A_Ant1_5825



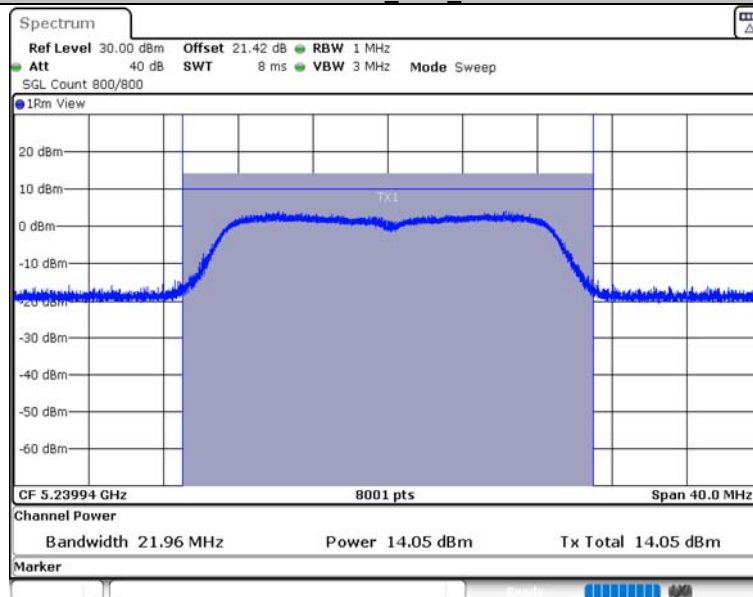
11N20SISO_Ant1_5180



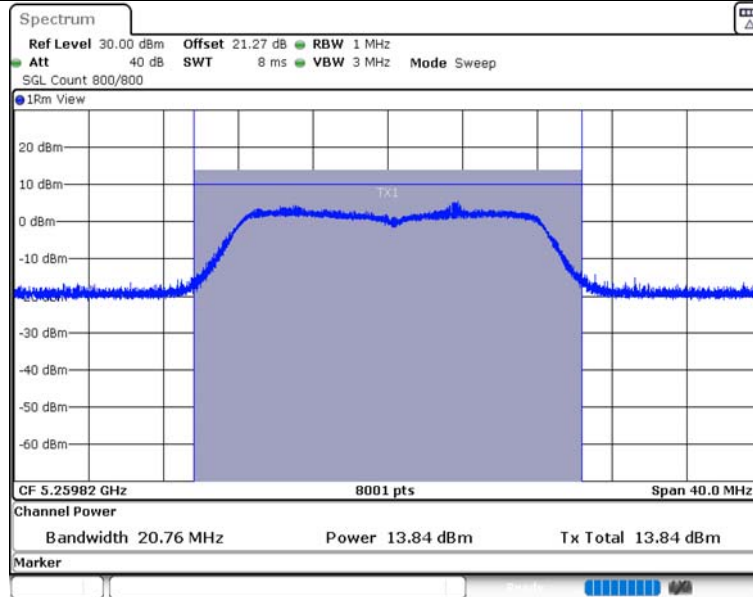
11N20SISO_Ant1_5200



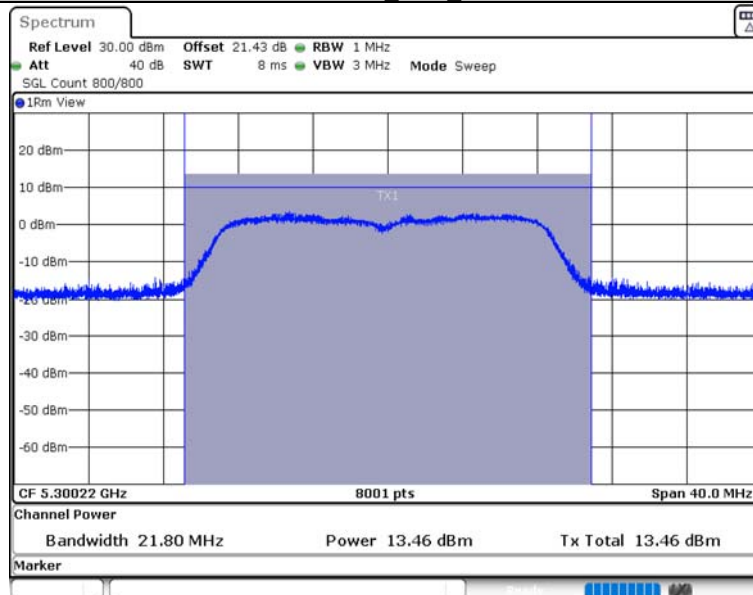
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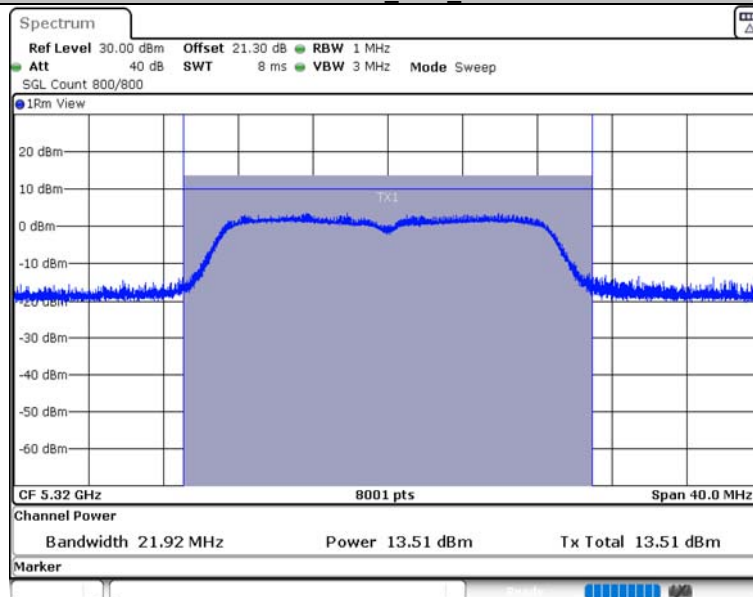
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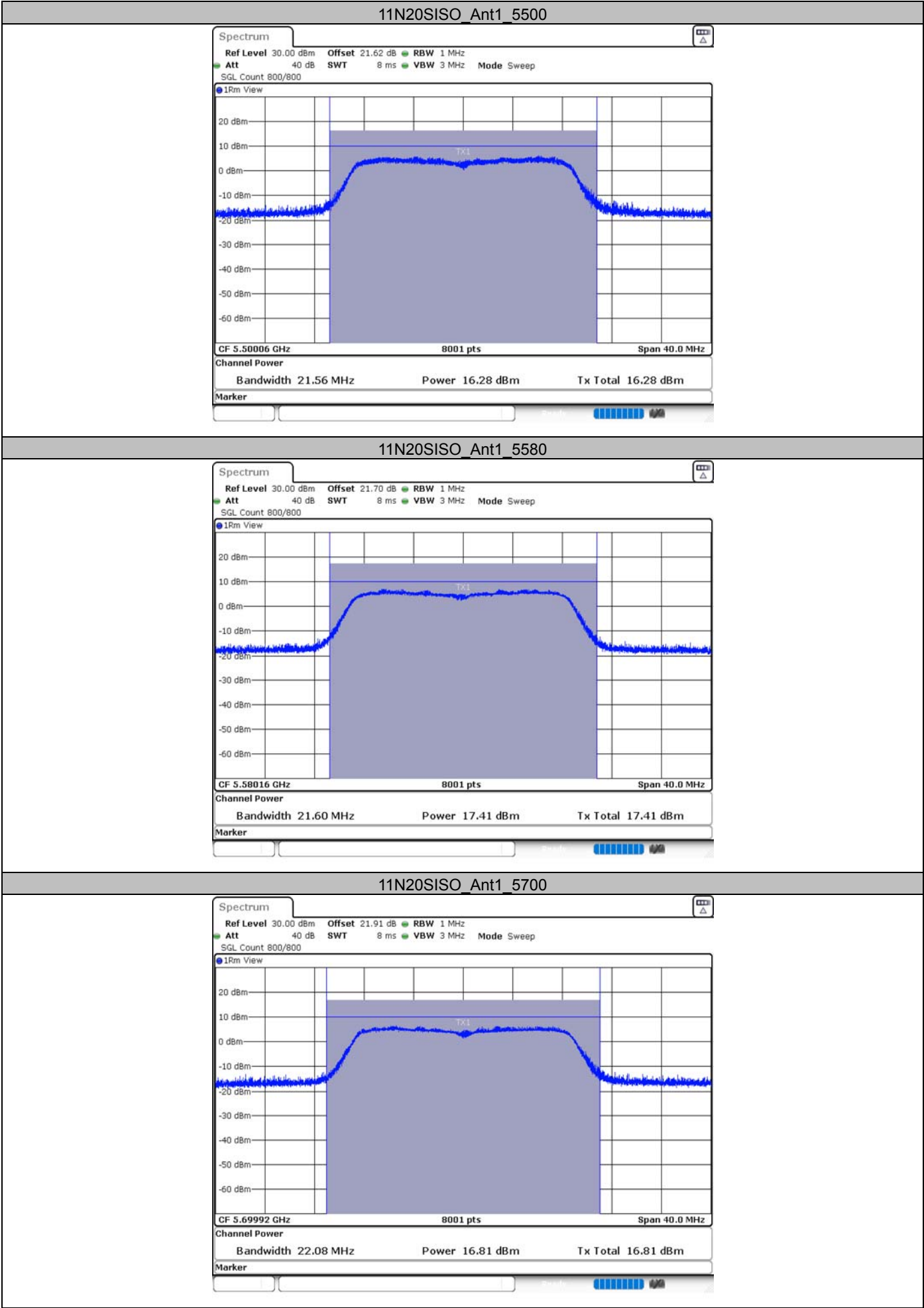


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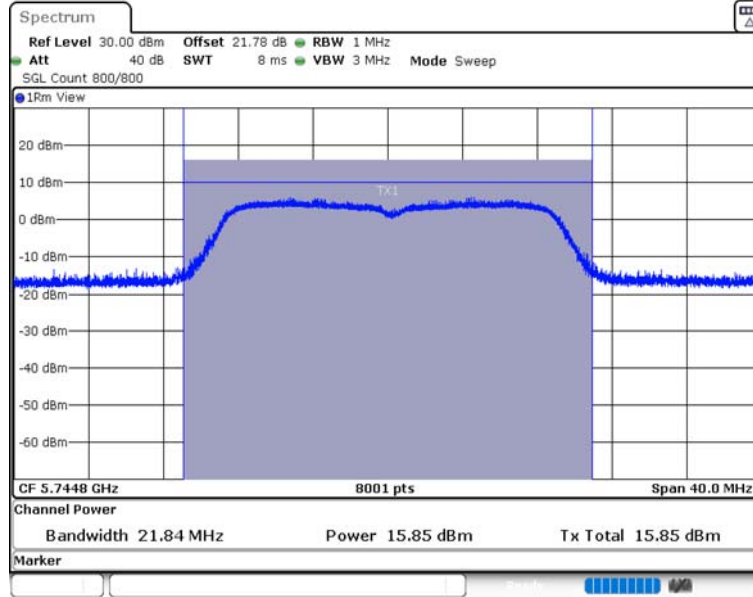


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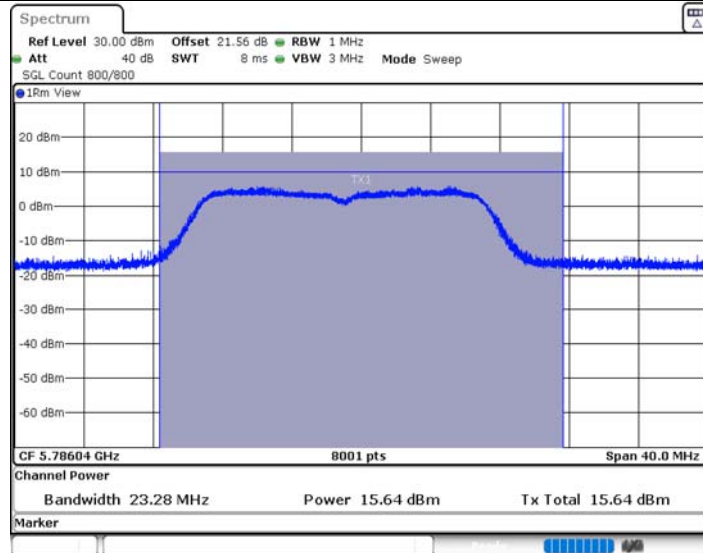




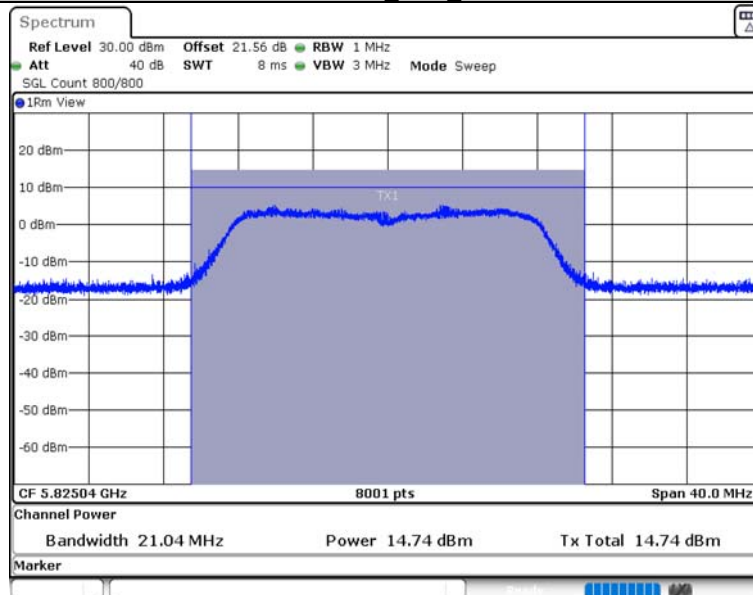
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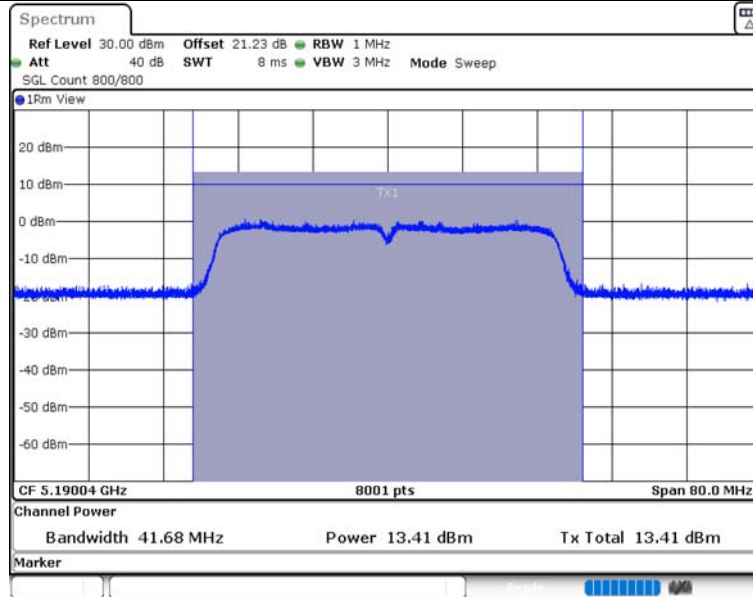
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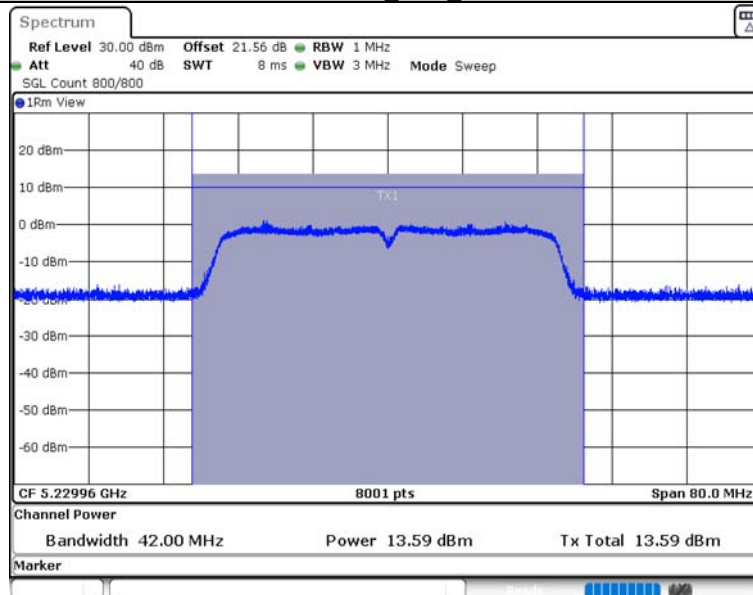
11N20SISO_Ant1_5825



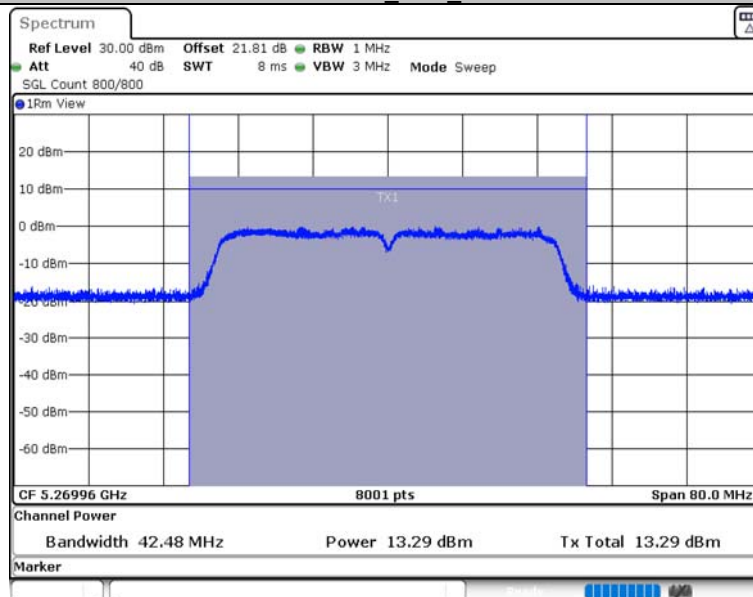
11N40SISO_Ant1_5190



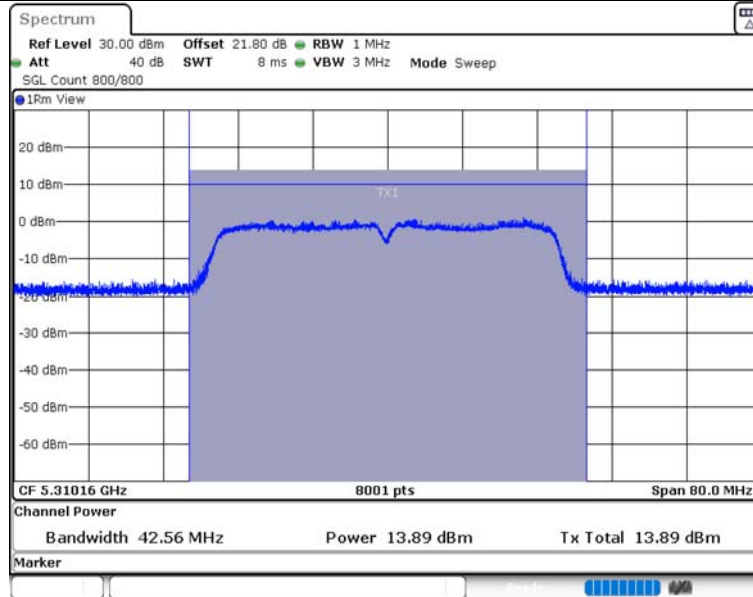
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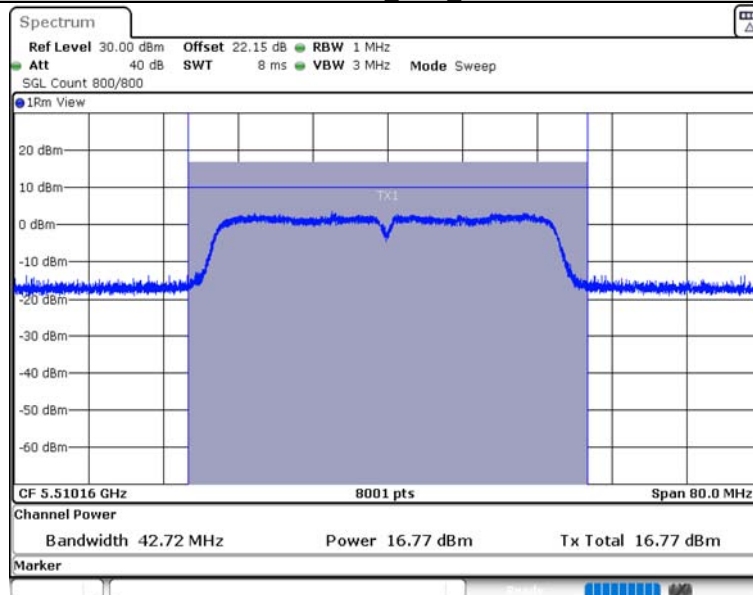
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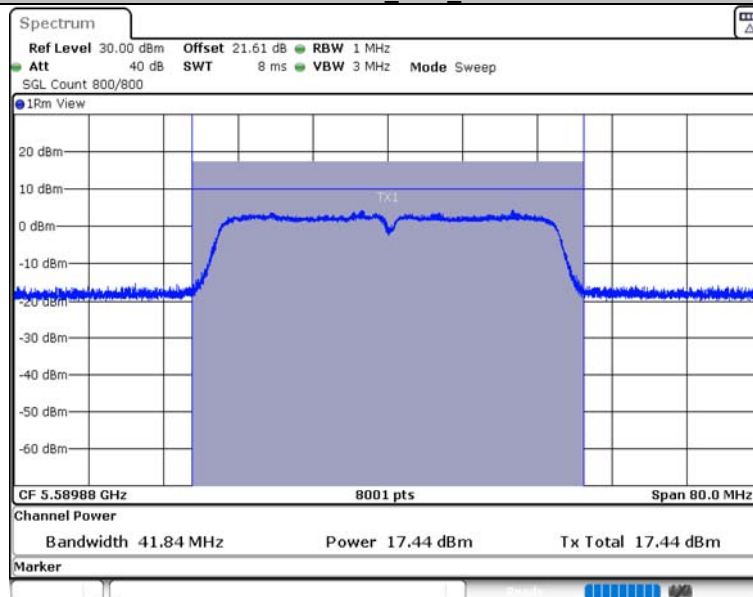
11N40SISO_Ant1_5310



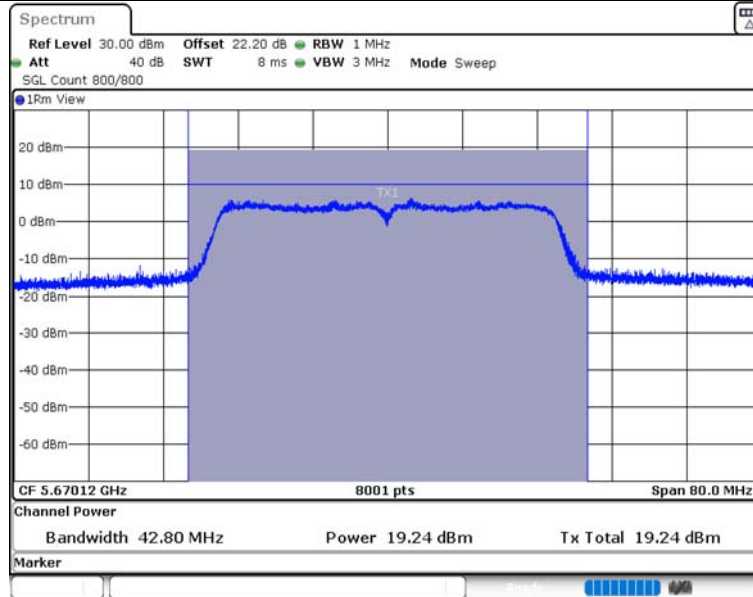
11N40SISO_Ant1_5510



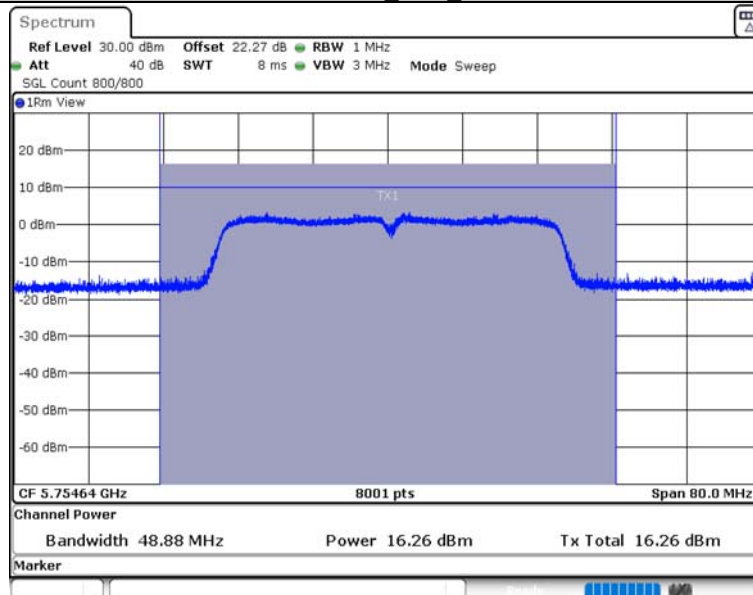
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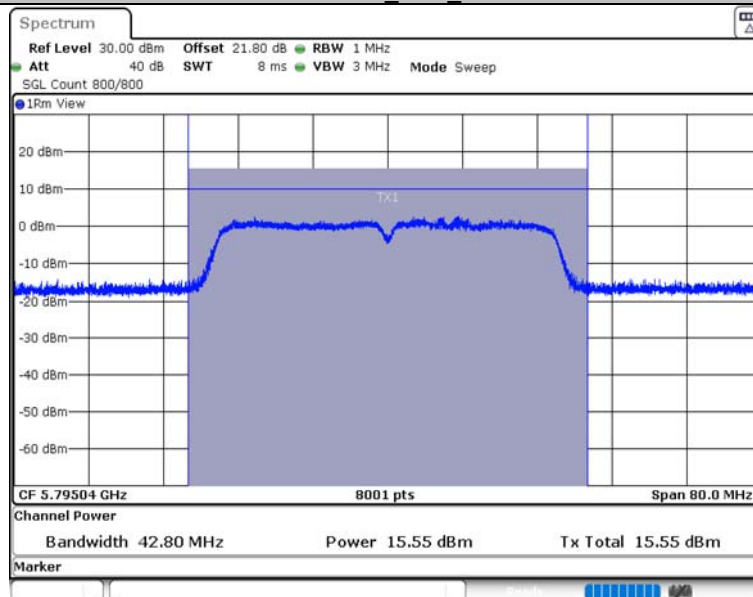
11N40SISO_Ant1_5670



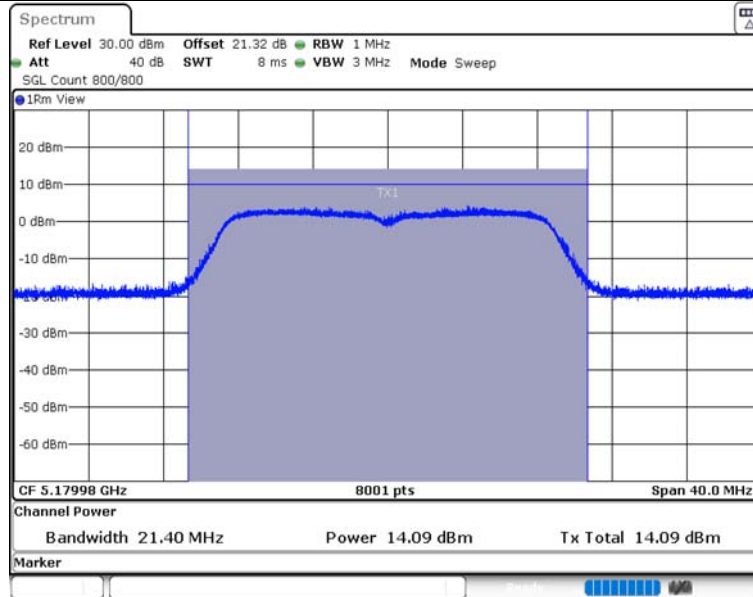
11N40SISO_Ant1_5755



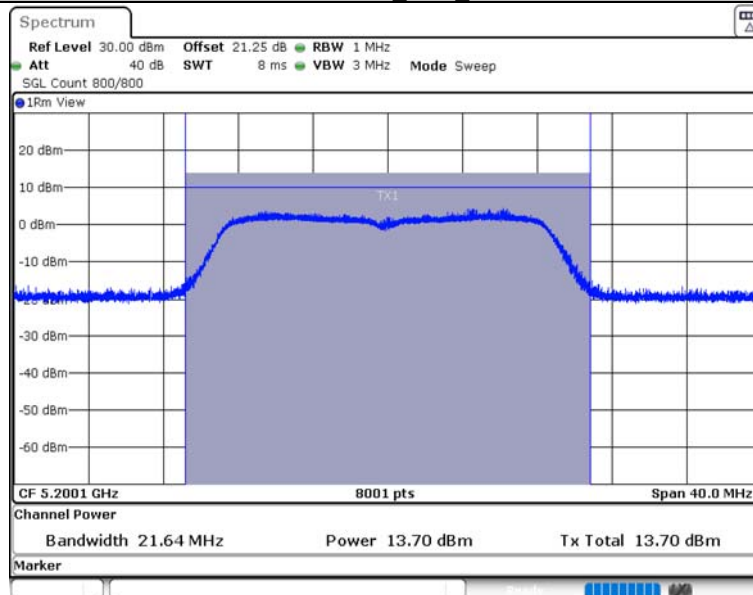
11N40SISO_Ant1_5795



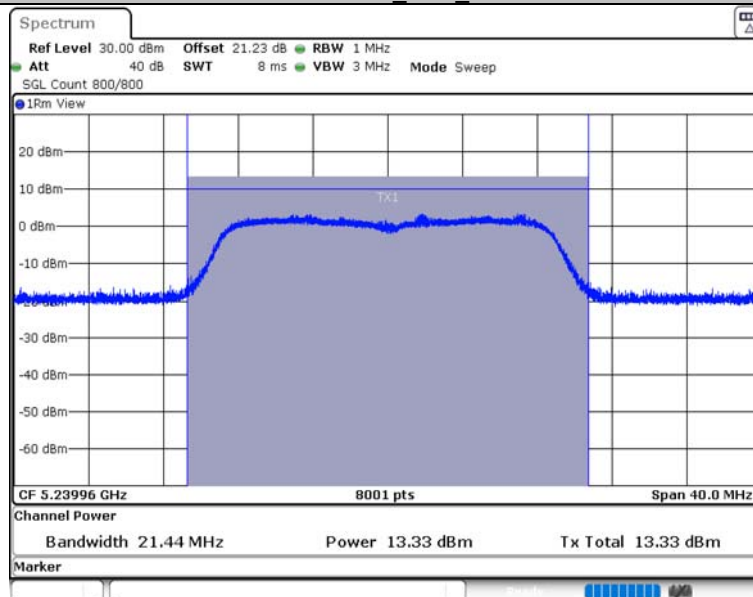
11AC20SISO_Ant1_5180



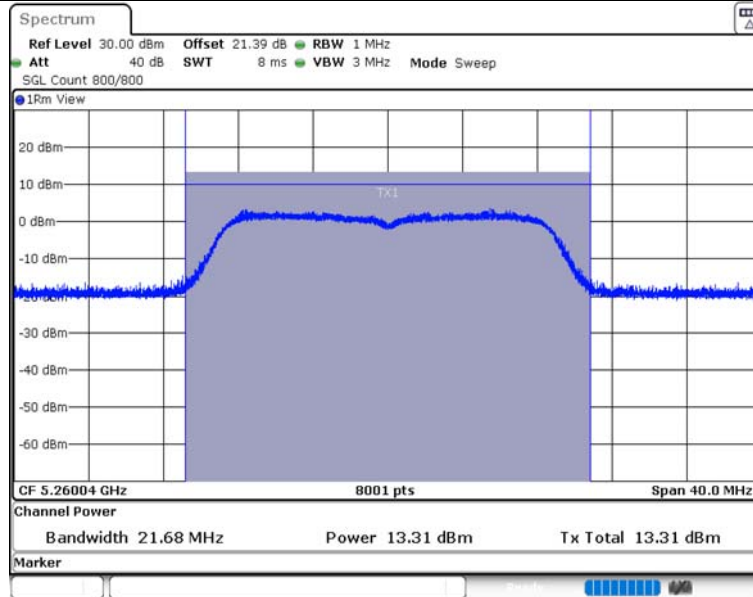
11AC20SISO_Ant1_5200



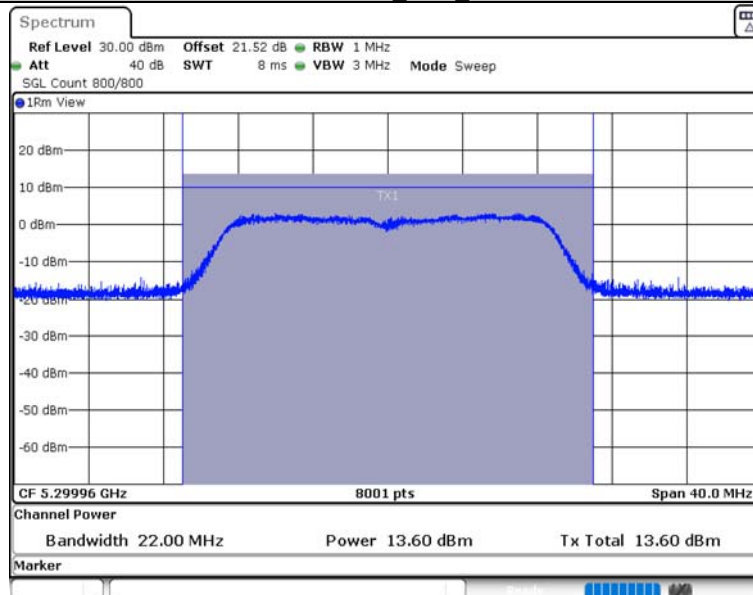
11AC20SISO_Ant1_5240



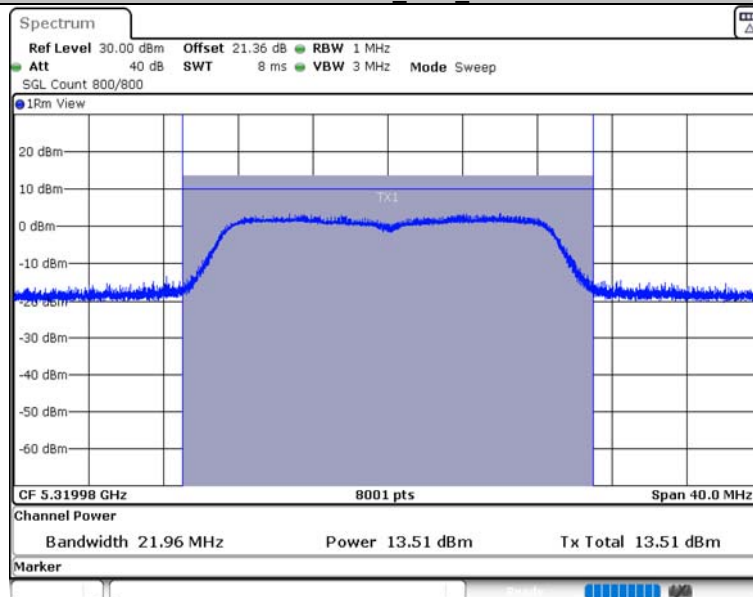
11AC20SISO_Ant1_5260



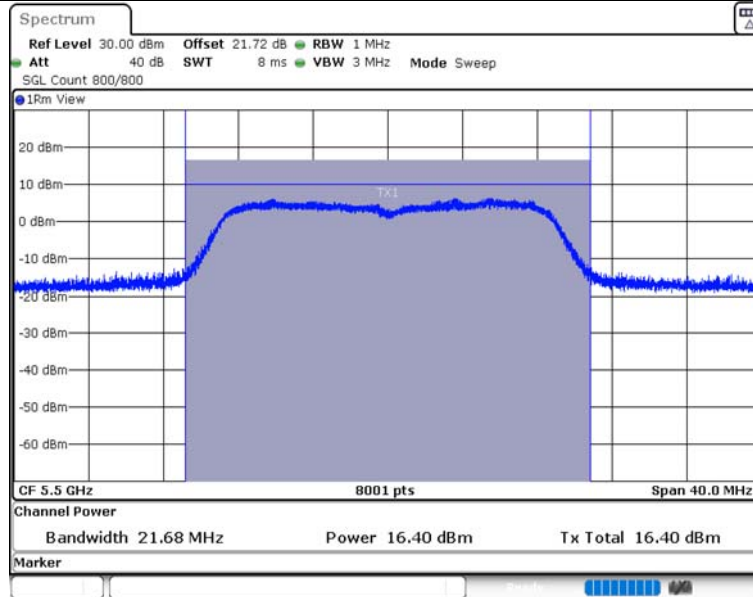
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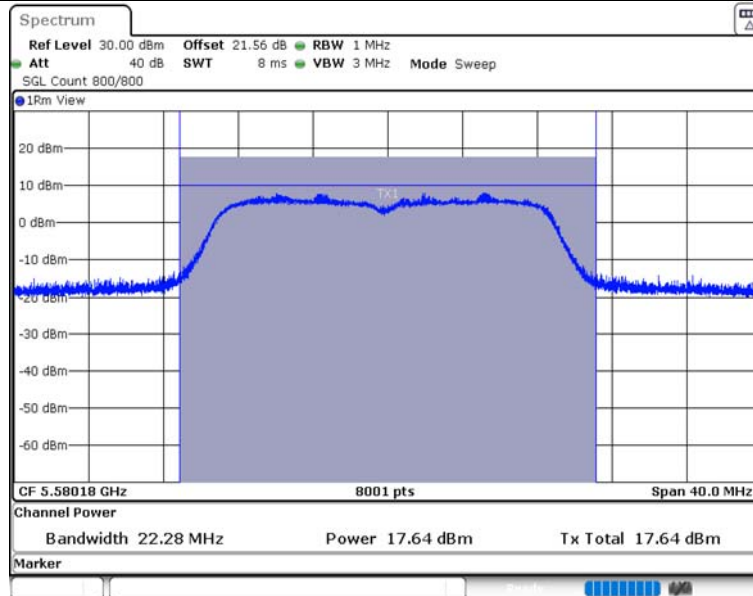
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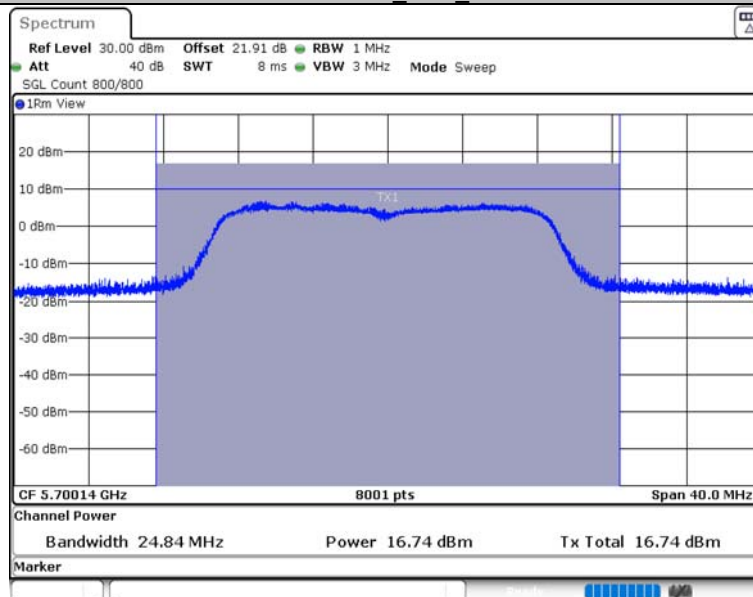
11AC20SISO_Ant1_5500

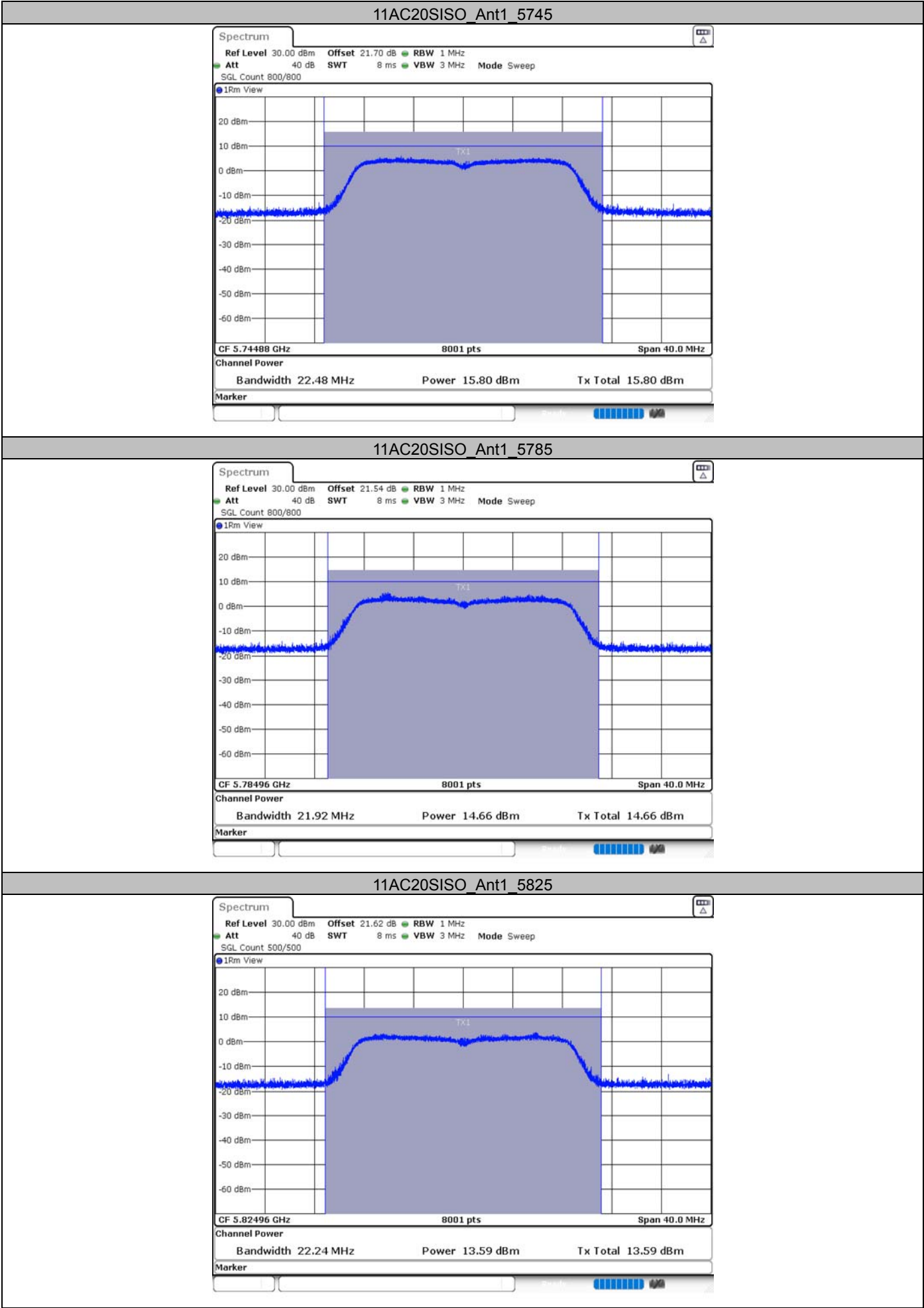


11AC20SISO_Ant1_5580

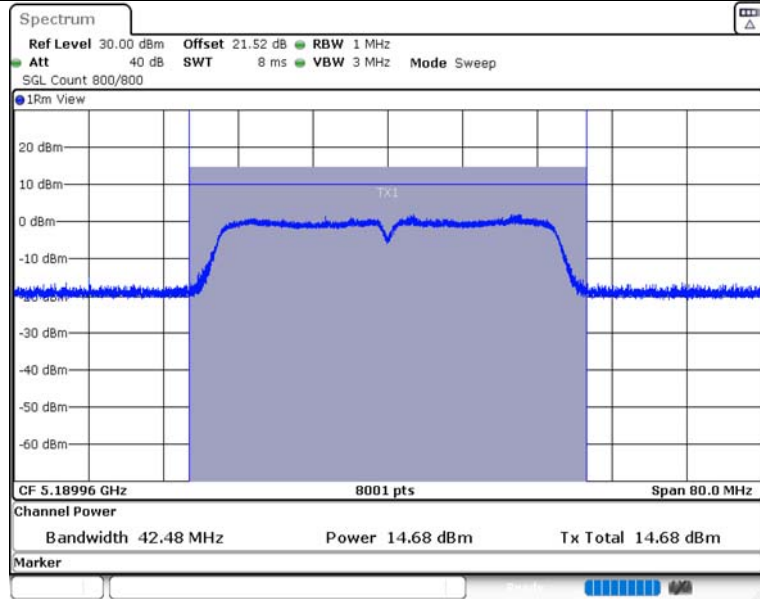


11AC20SISO_Ant1_5700

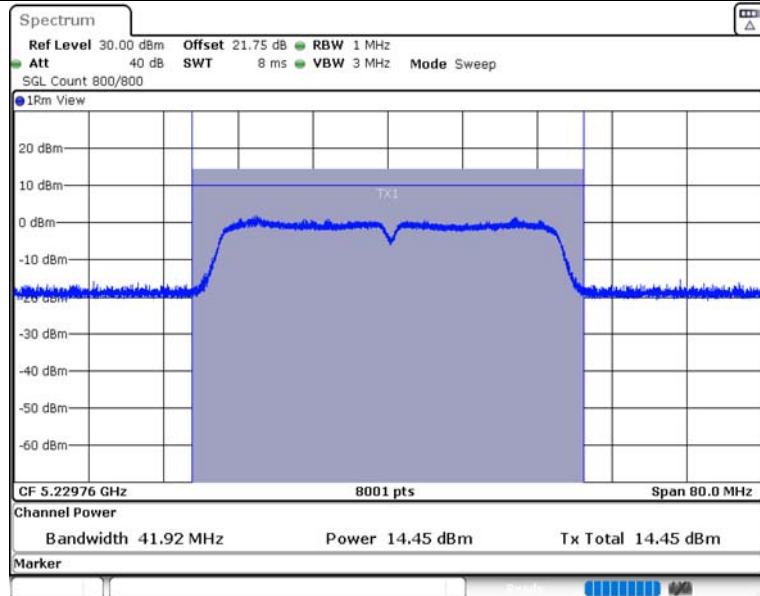




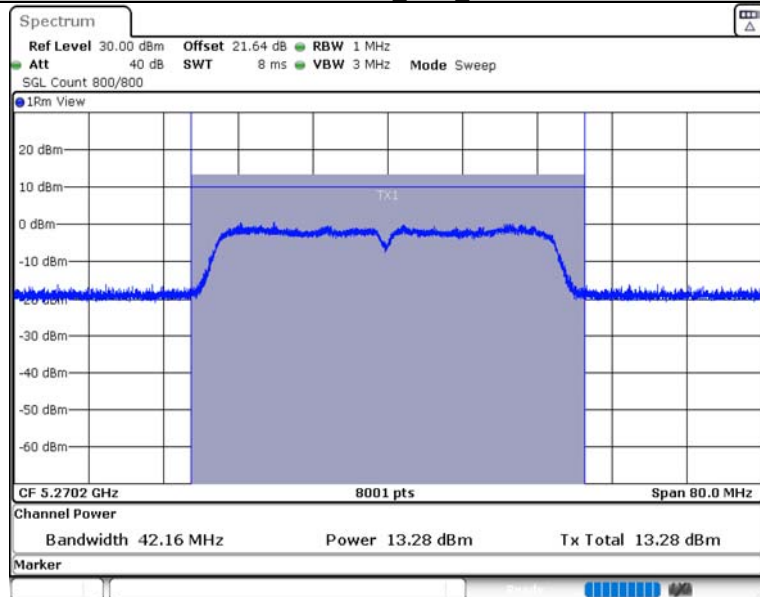
11AC40SISO_Ant1_5190



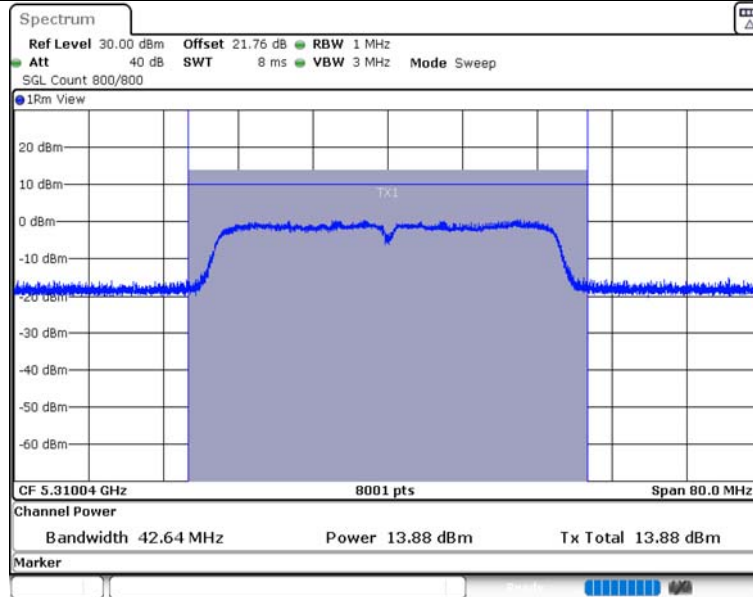
11AC40SISO_Ant1_5230



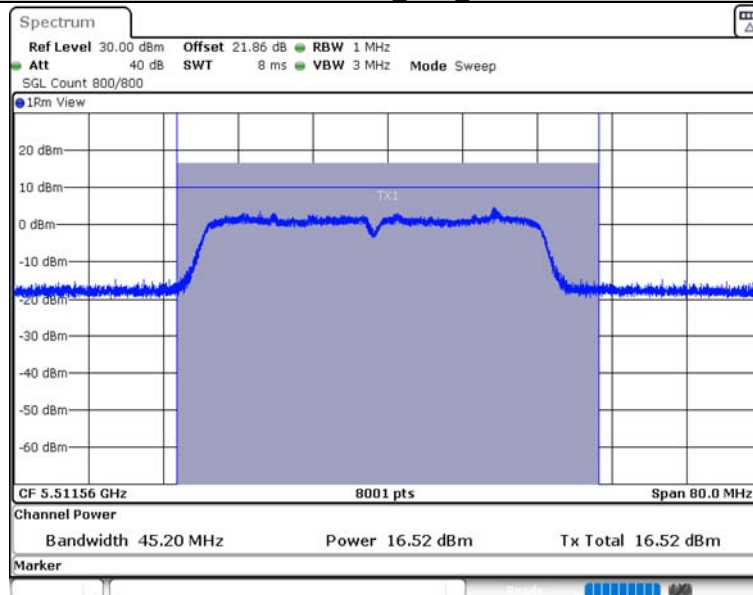
11AC40SISO_Ant1_5270



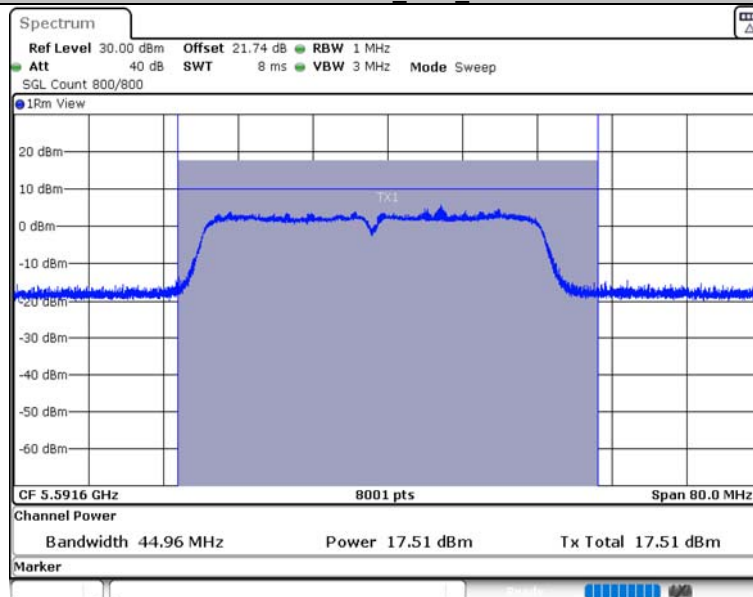
11AC40SISO_Ant1_5310



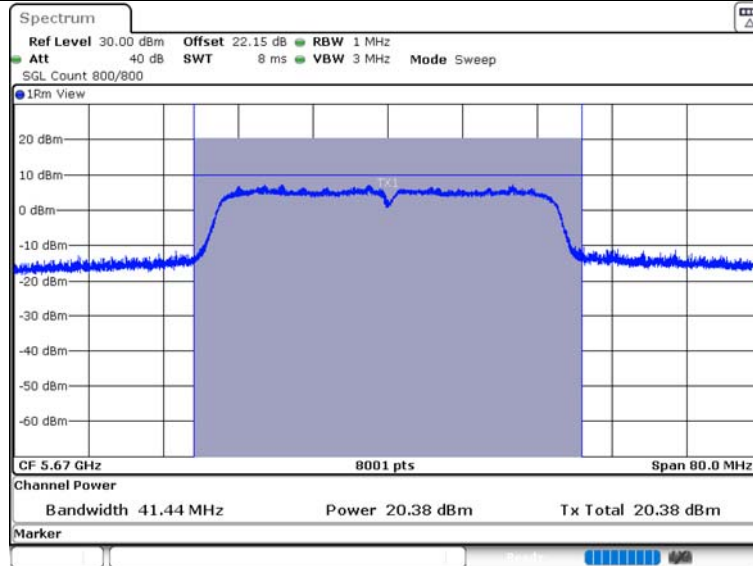
11AC40SISO_Ant1_5510



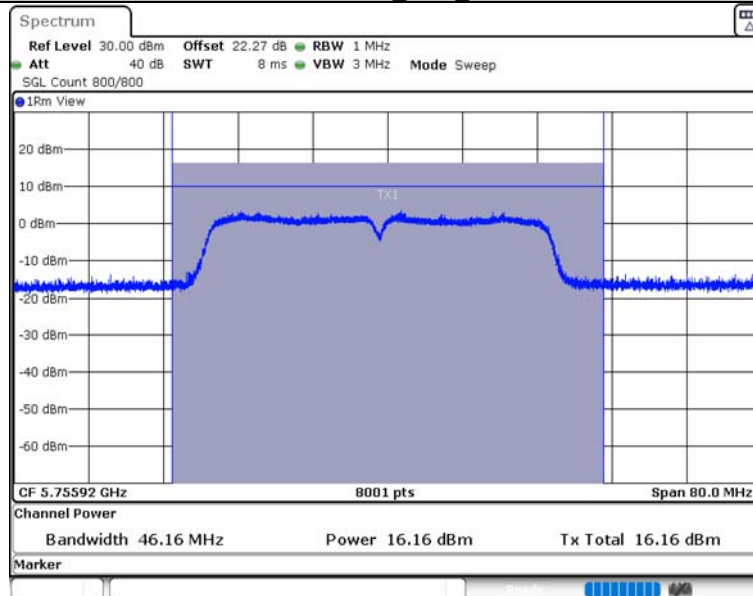
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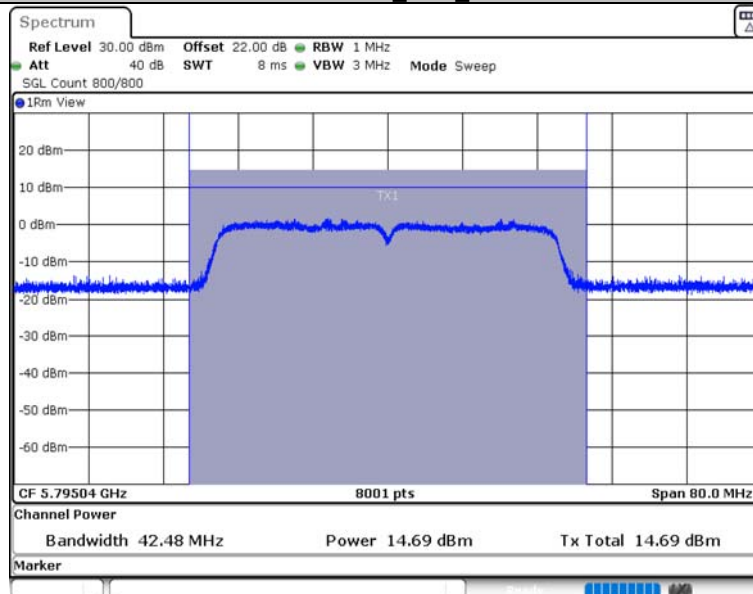
11AC40SISO_Ant1_5670



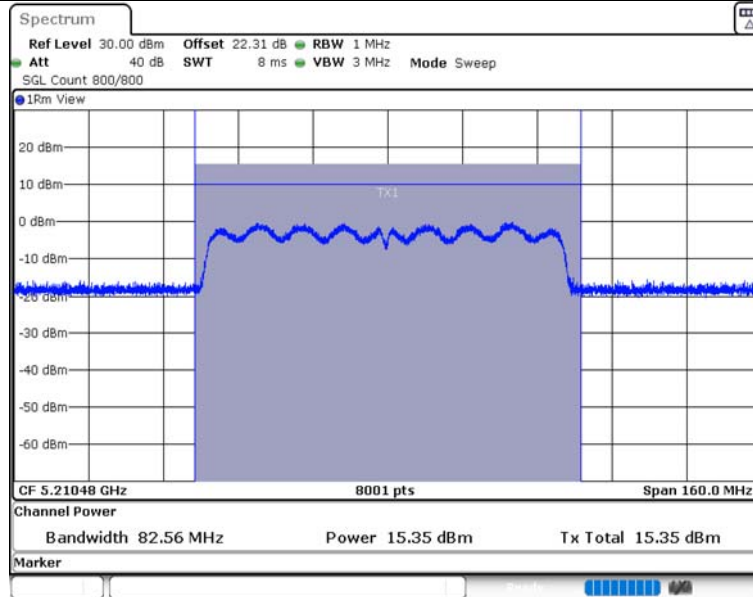
11AC40SISO_Ant1_5755



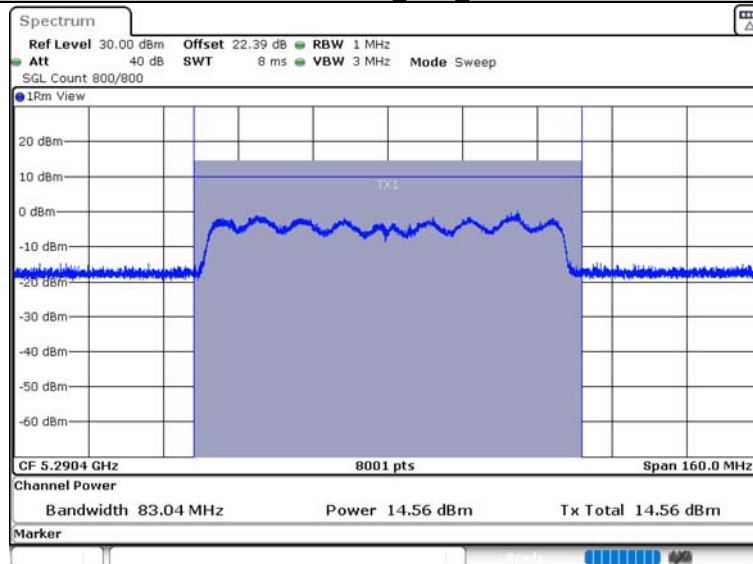
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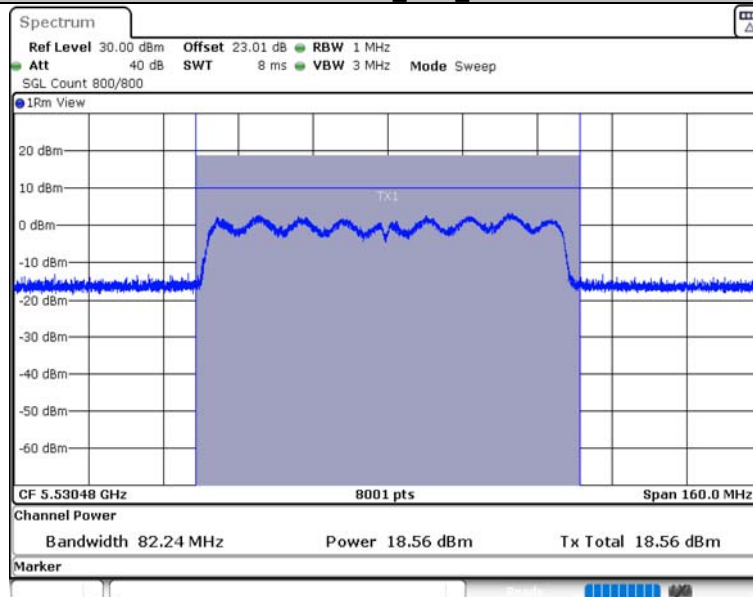
11AC80SISO_Ant1_5210

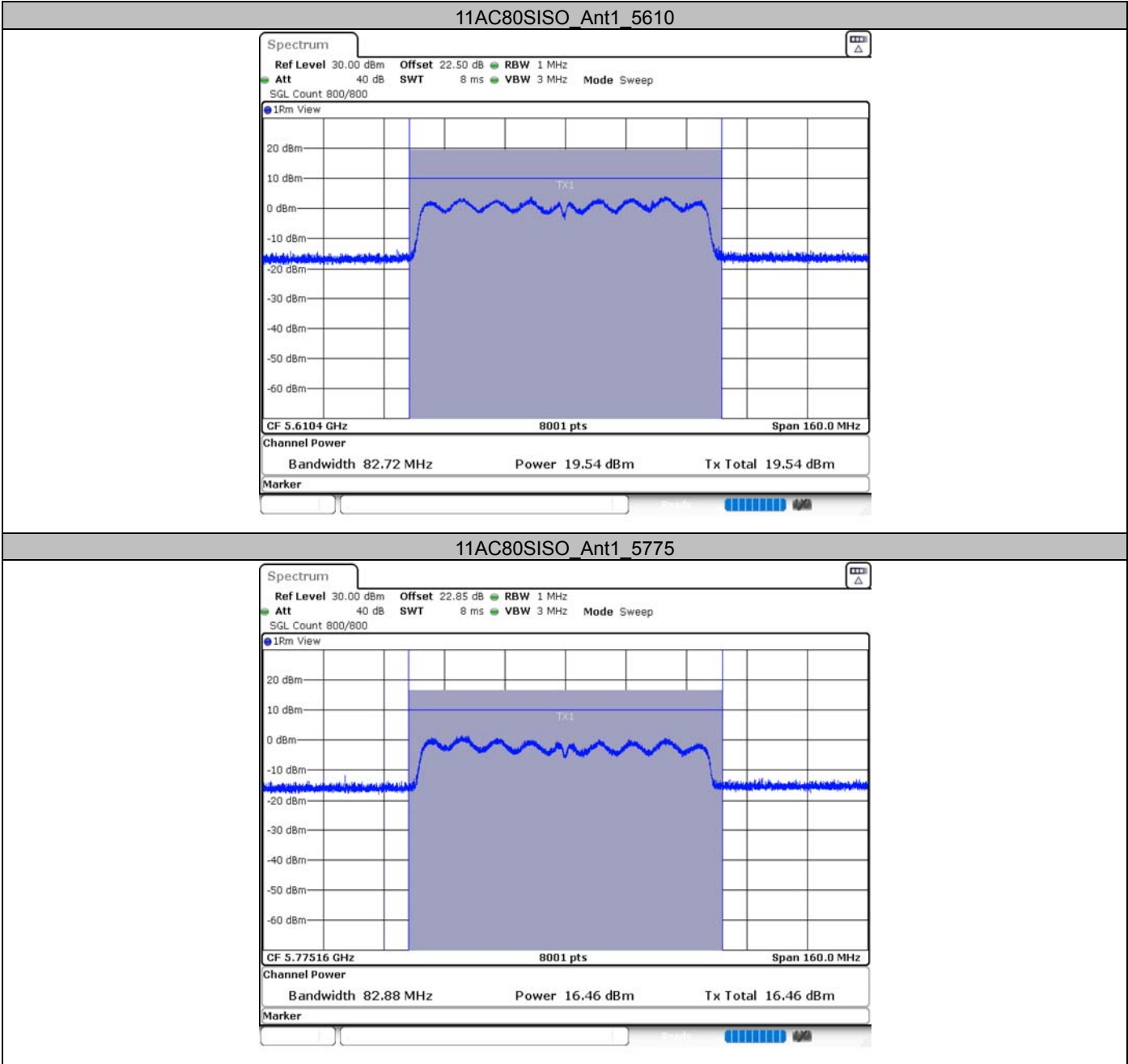


11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5530





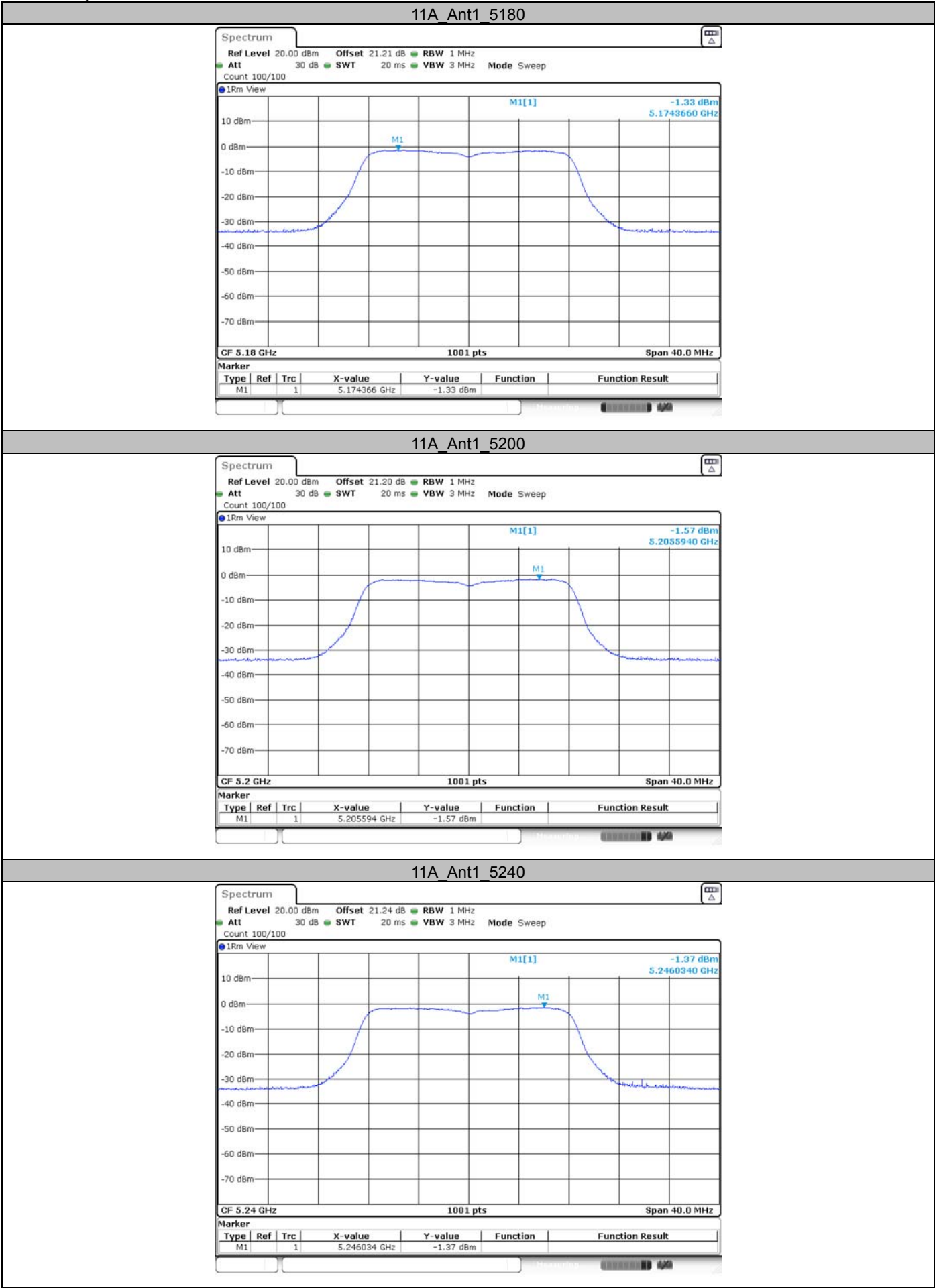
Appendix F: Maximum power spectral density Test Result

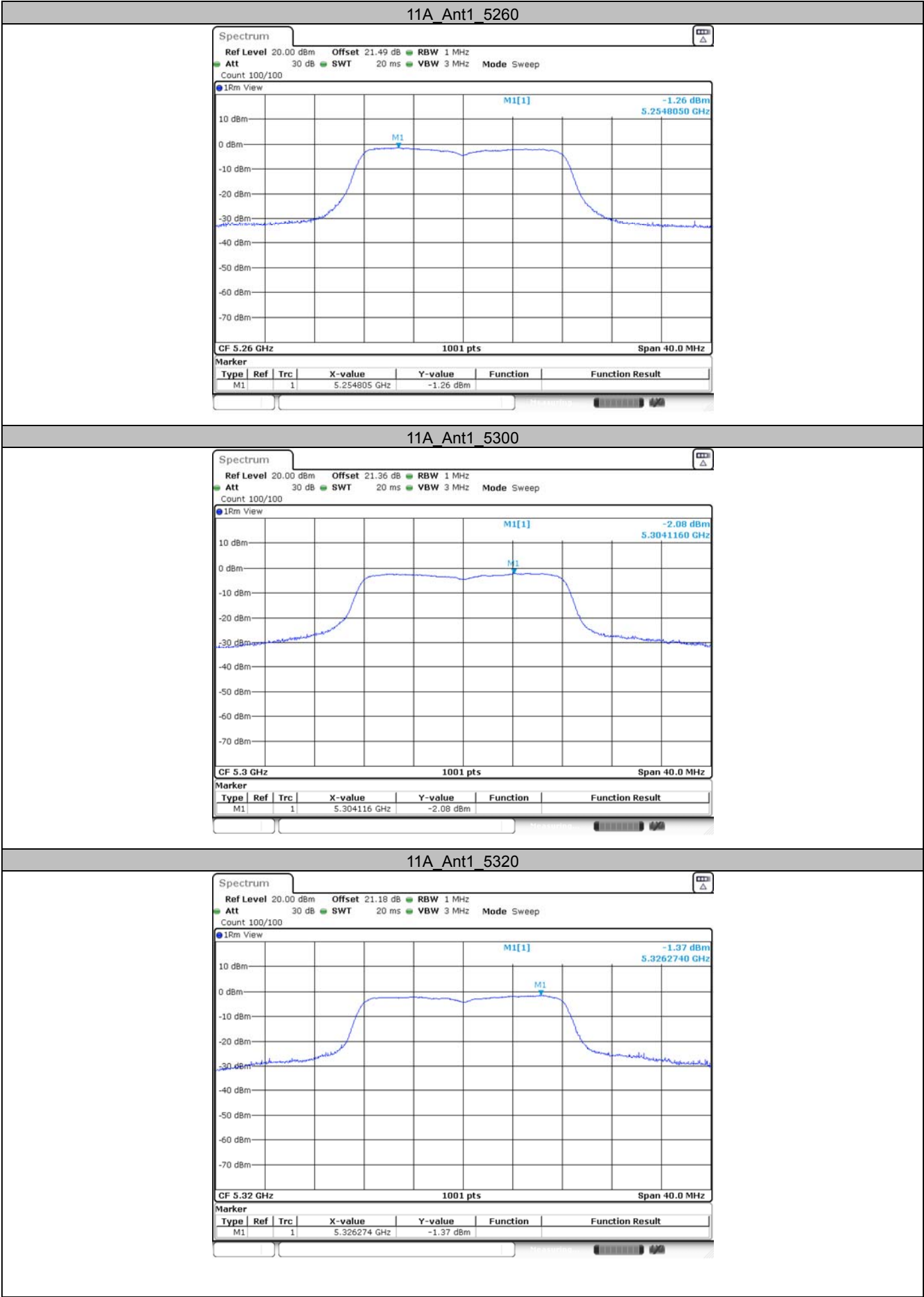
Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-1.33	≤11.00	PASS
		5200	-1.57	≤11.00	PASS
		5240	-1.37	≤11.00	PASS
		5260	-1.26	≤11.00	PASS
		5300	-2.08	≤11.00	PASS
		5320	-1.37	≤11.00	PASS
		5500	1.71	≤11.00	PASS
		5580	2.87	≤11.00	PASS
		5700	2.07	≤11.00	PASS
		5745	0.31	≤30.00	PASS
		5785	-1.43	≤30.00	PASS
		5825	-2.32	≤30.00	PASS
11N20SISO	Ant1	5180	-1.27	≤11.00	PASS
		5200	-1.71	≤11.00	PASS
		5240	-1	≤11.00	PASS
		5260	-1.39	≤11.00	PASS
		5300	-1.92	≤11.00	PASS
		5320	-1.08	≤11.00	PASS
		5500	1.75	≤11.00	PASS
		5580	3.09	≤11.00	PASS
		5700	2.16	≤11.00	PASS
		5745	0.02	≤30.00	PASS
		5785	-1.32	≤30.00	PASS
		5825	-2.29	≤30.00	PASS
11N40SISO	Ant1	5190	-5.45	≤11.00	PASS
		5230	-5.31	≤11.00	PASS
		5270	-5.55	≤11.00	PASS
		5310	-5.38	≤11.00	PASS
		5510	-2.02	≤11.00	PASS
		5590	-1.02	≤11.00	PASS
		5670	0.42	≤11.00	PASS
		5755	-4.15	≤30.00	PASS
		5795	-5.03	≤30.00	PASS
11AC20SISO	Ant1	5180	-1.52	≤11.00	PASS
		5200	-1.77	≤11.00	PASS
		5240	-2.32	≤11.00	PASS
		5260	-2.39	≤11.00	PASS
		5300	-2.73	≤11.00	PASS
		5320	-2.47	≤11.00	PASS
		5500	0.96	≤11.00	PASS
		5580	2.11	≤11.00	PASS
		5700	1.13	≤11.00	PASS
		5745	-1.25	≤30.00	PASS
		5785	-2.74	≤30.00	PASS
		5825	-3.42	≤30.00	PASS
11AC40SISO	Ant1	5190	-3.85	≤11.00	PASS
		5230	-4.33	≤11.00	PASS
		5270	-5.45	≤11.00	PASS
		5310	-5.13	≤11.00	PASS
		5510	-2.23	≤11.00	PASS
		5590	-1.24	≤11.00	PASS
		5670	0.35	≤11.00	PASS
		5755	-4.43	≤30.00	PASS
		5795	-5.87	≤30.00	PASS

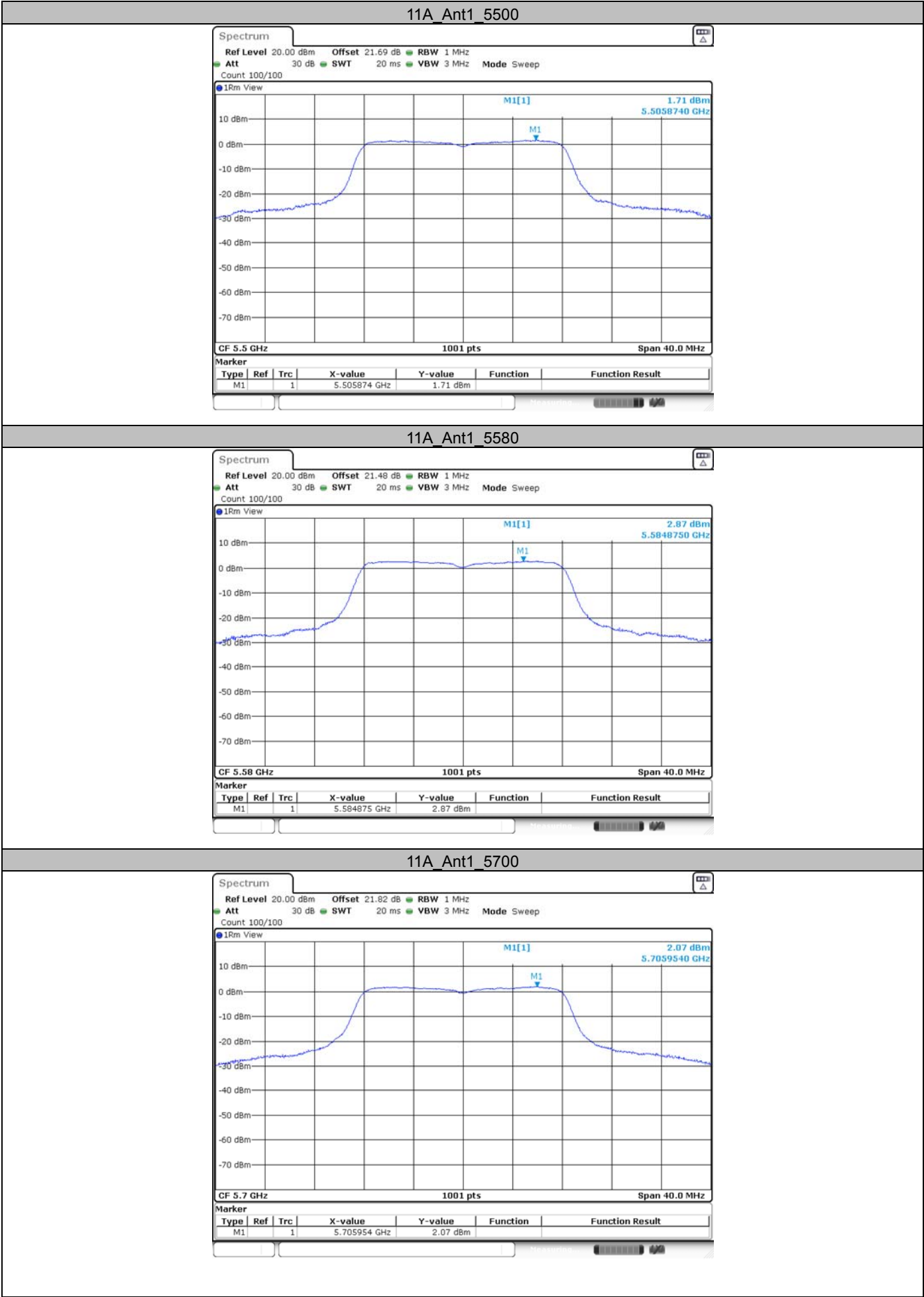
11AC80SISO	Ant1	5210	-5.26	≤11.00	PASS
		5290	-5.83	≤11.00	PASS
		5530	-1.81	≤11.00	PASS
		5610	-0.88	≤11.00	PASS
		5775	-5.47	≤30.00	PASS

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.

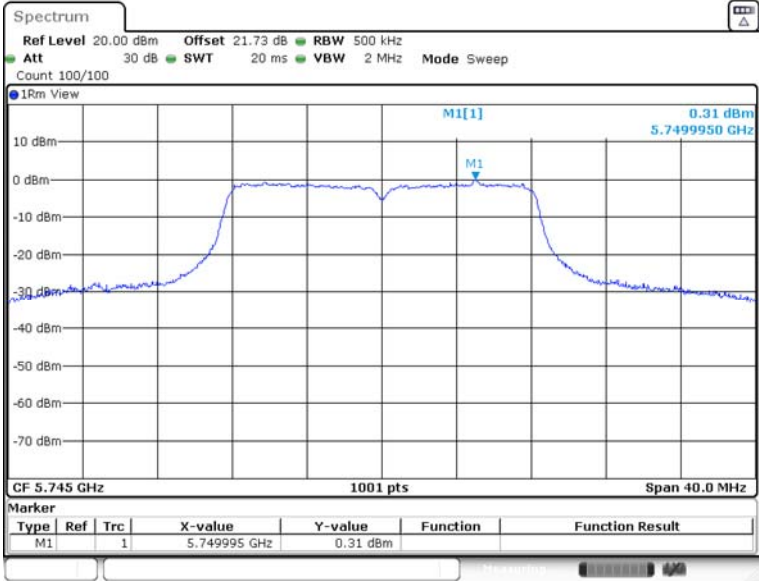
Test Graphs



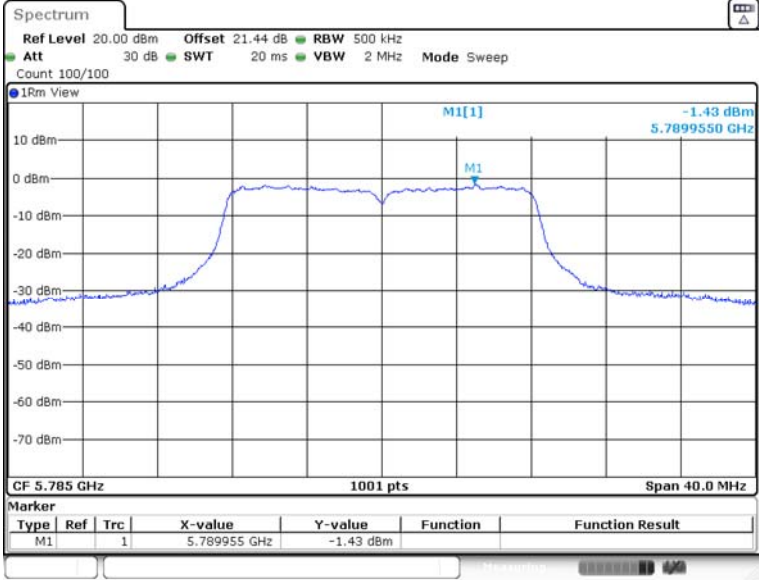




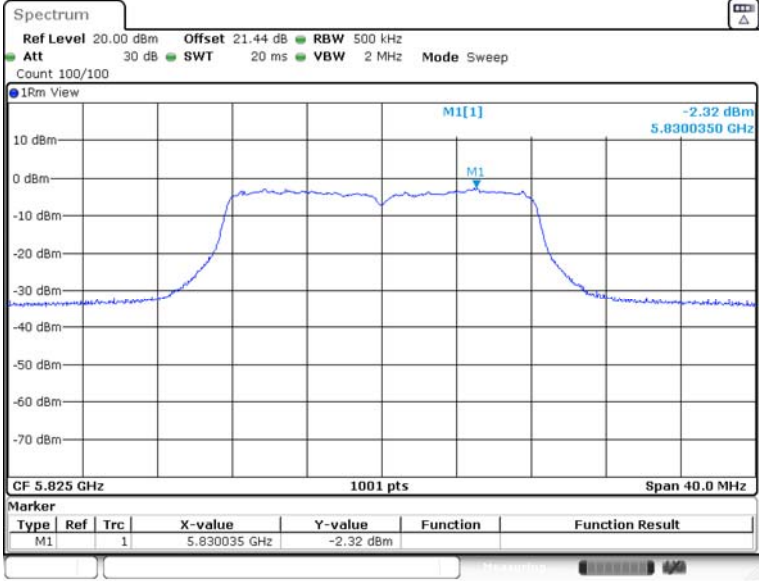
11A_Ant1_5745



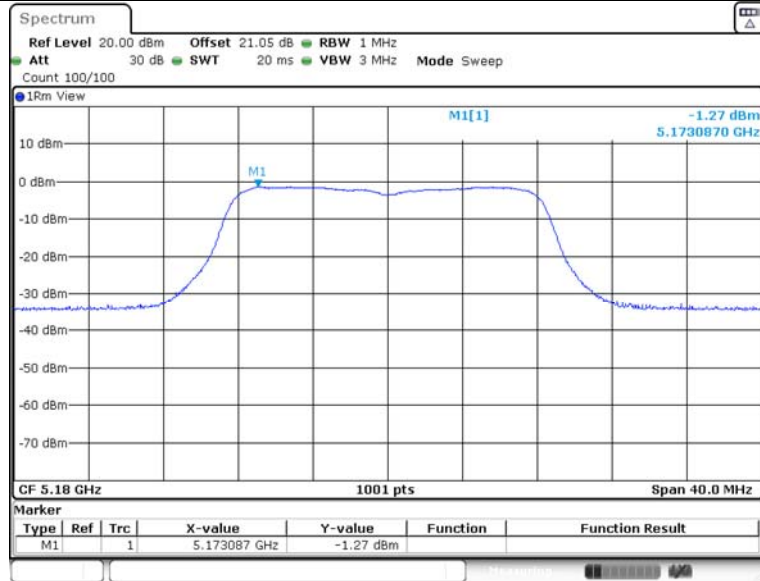
11A_Ant1_5785



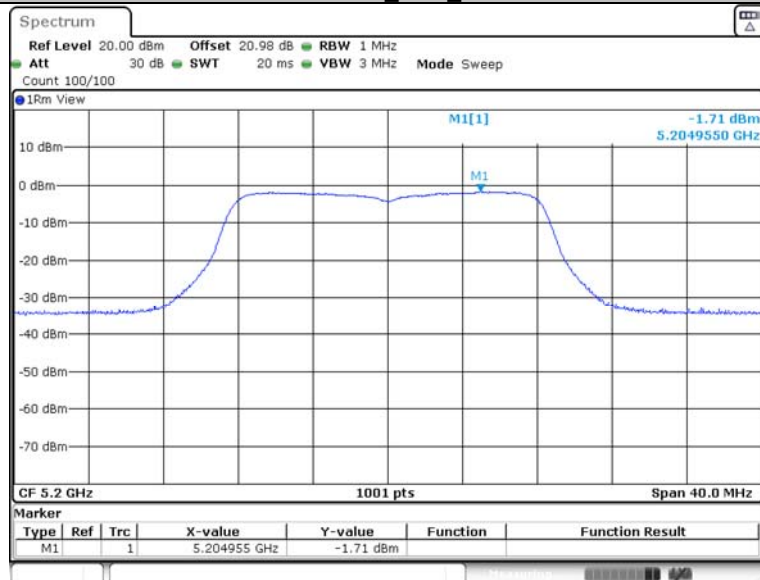
11A_Ant1_5825



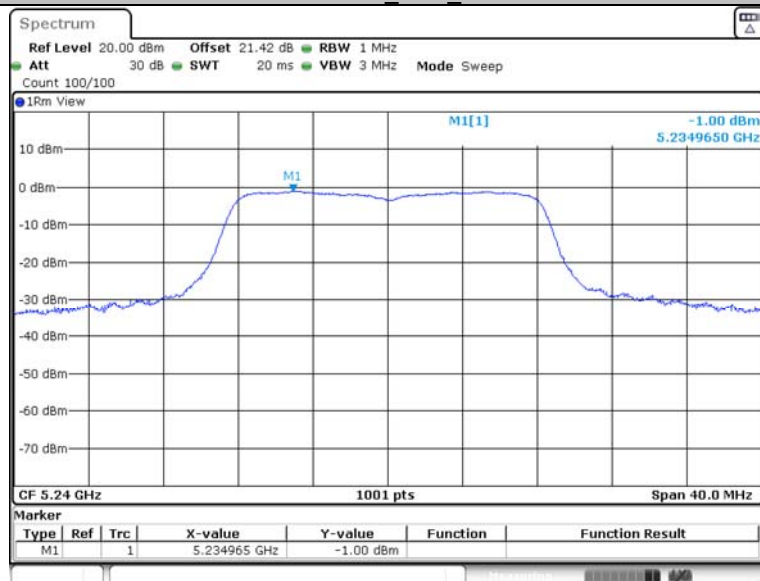
11N20SISO_Ant1_5180

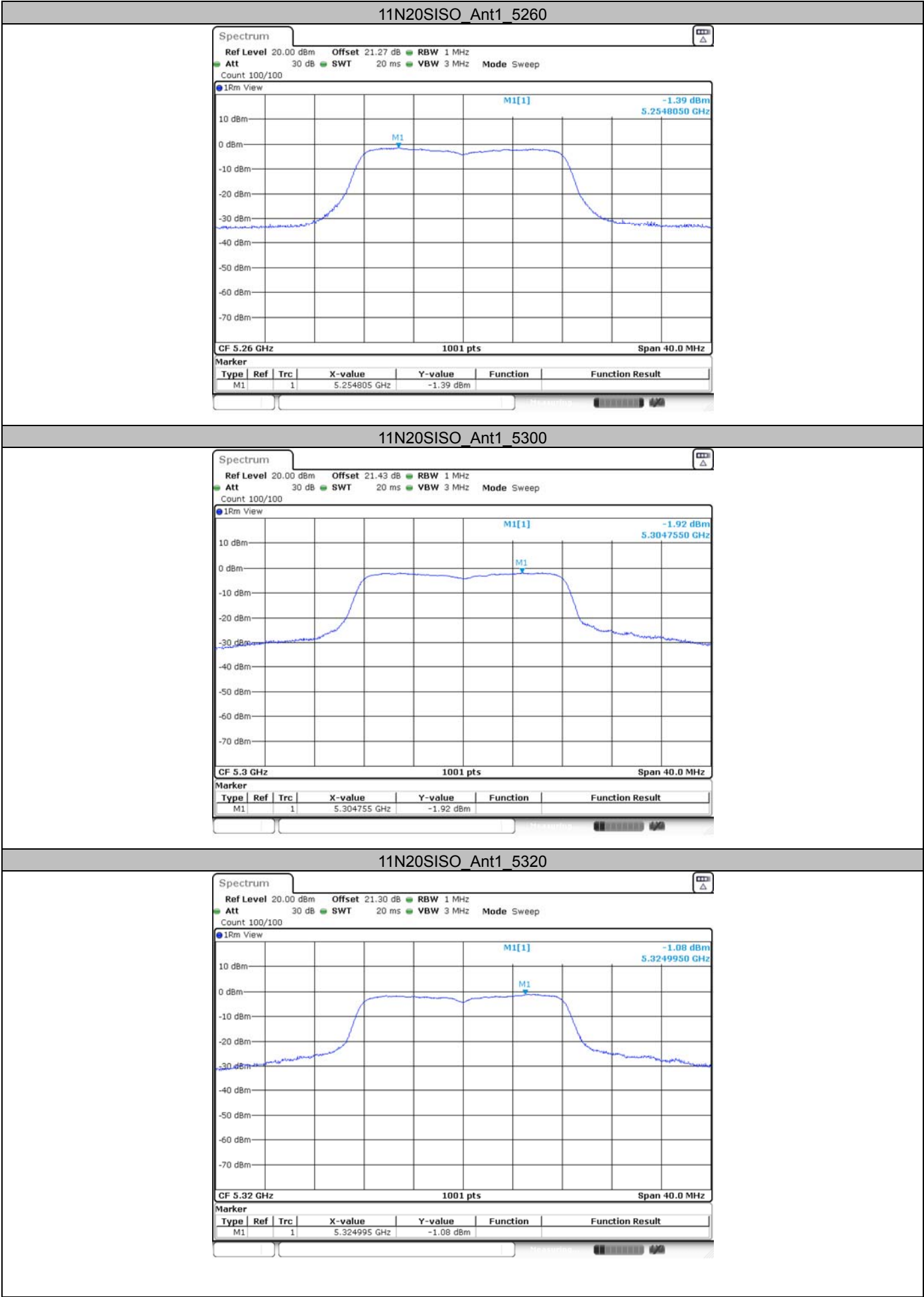


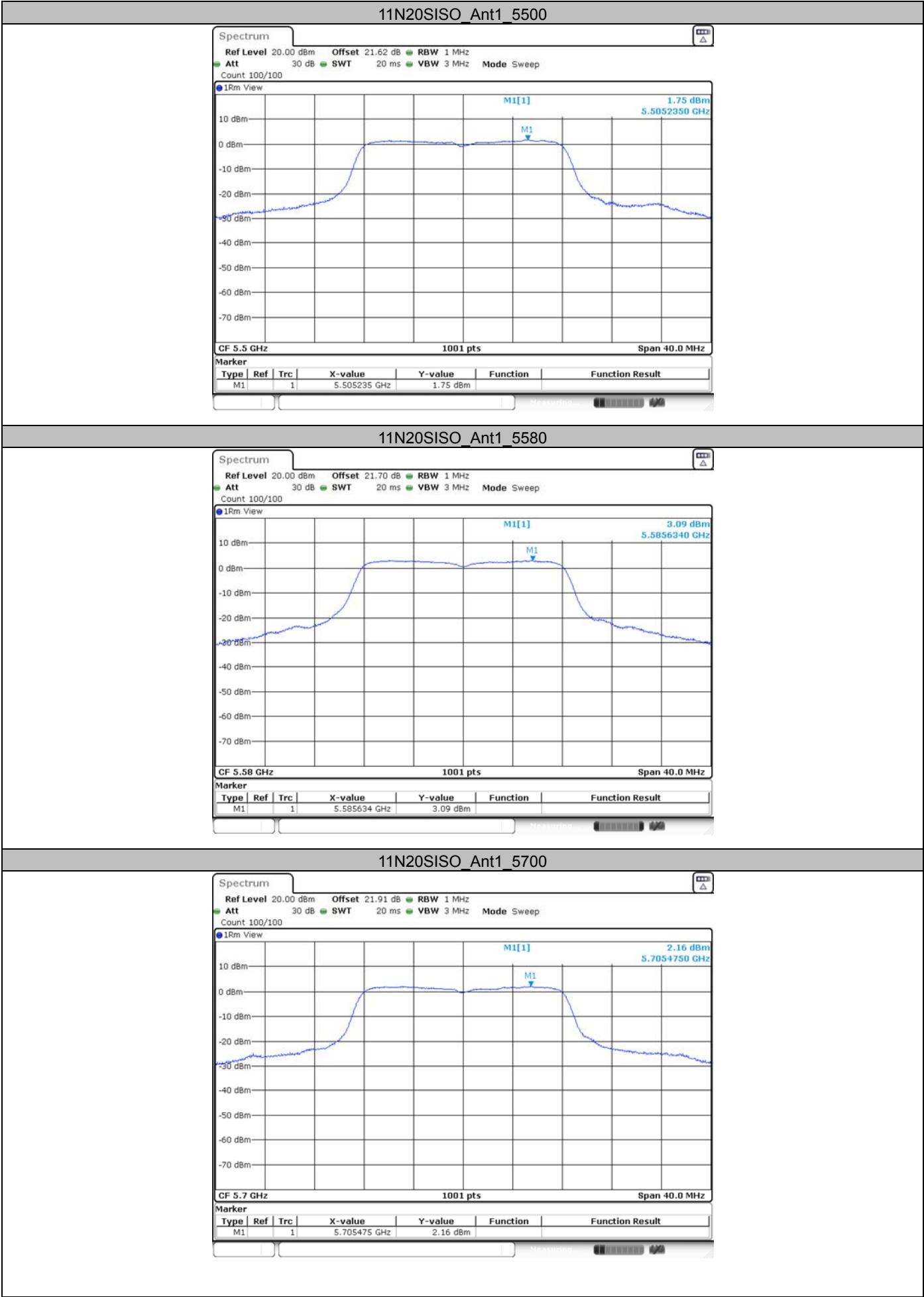
11N20SISO_Ant1_5200

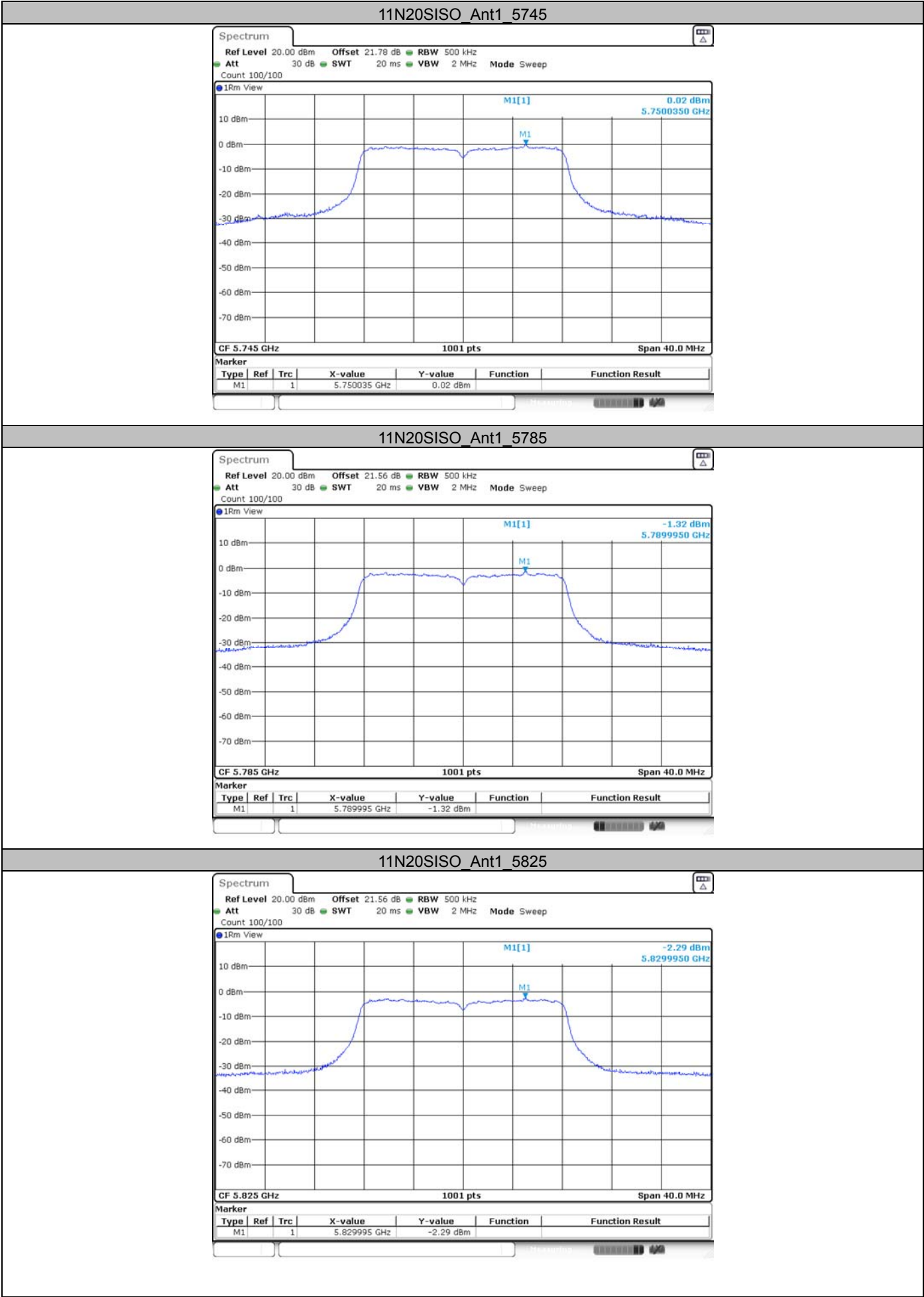


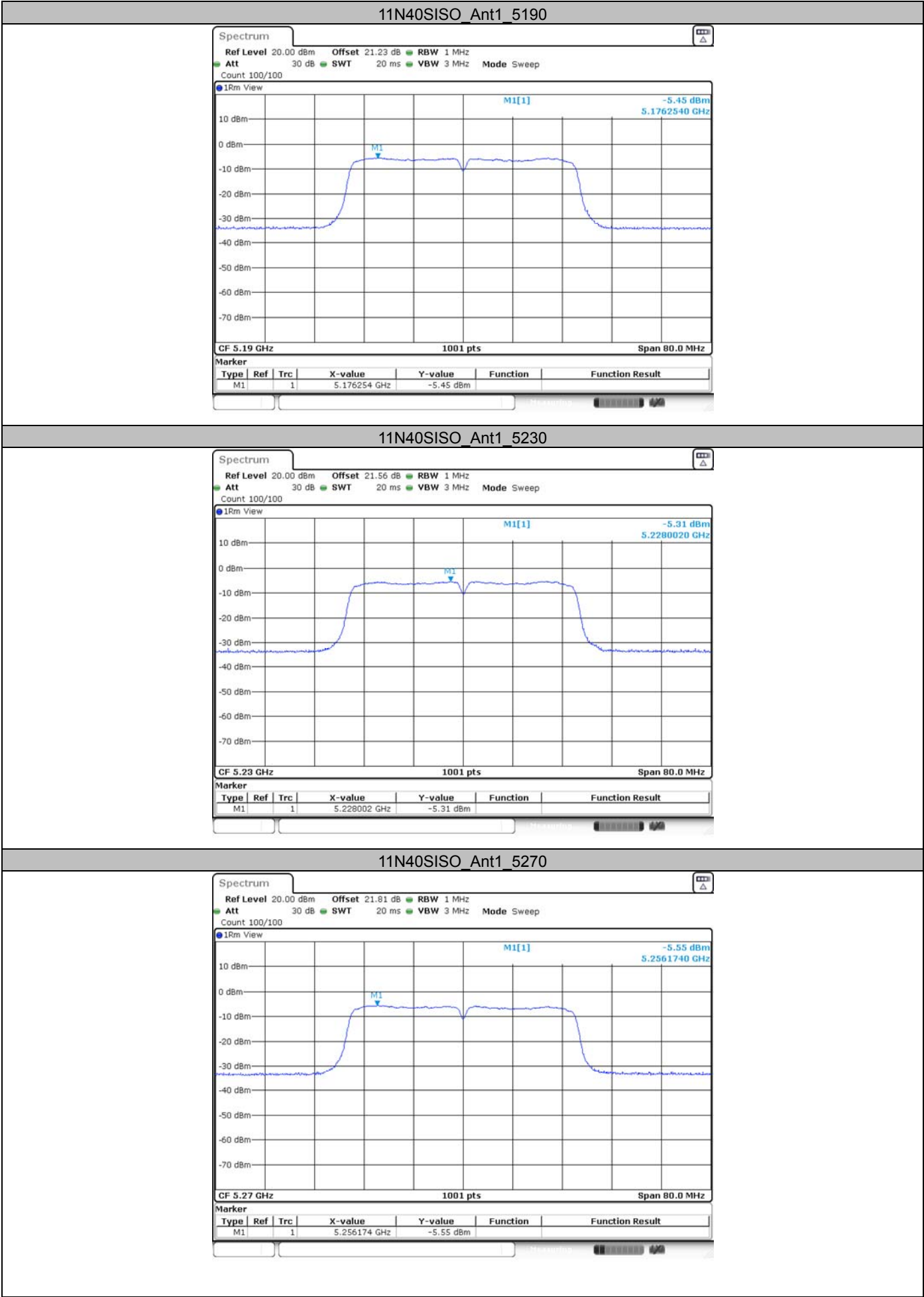
11N20SISO_Ant1_5240

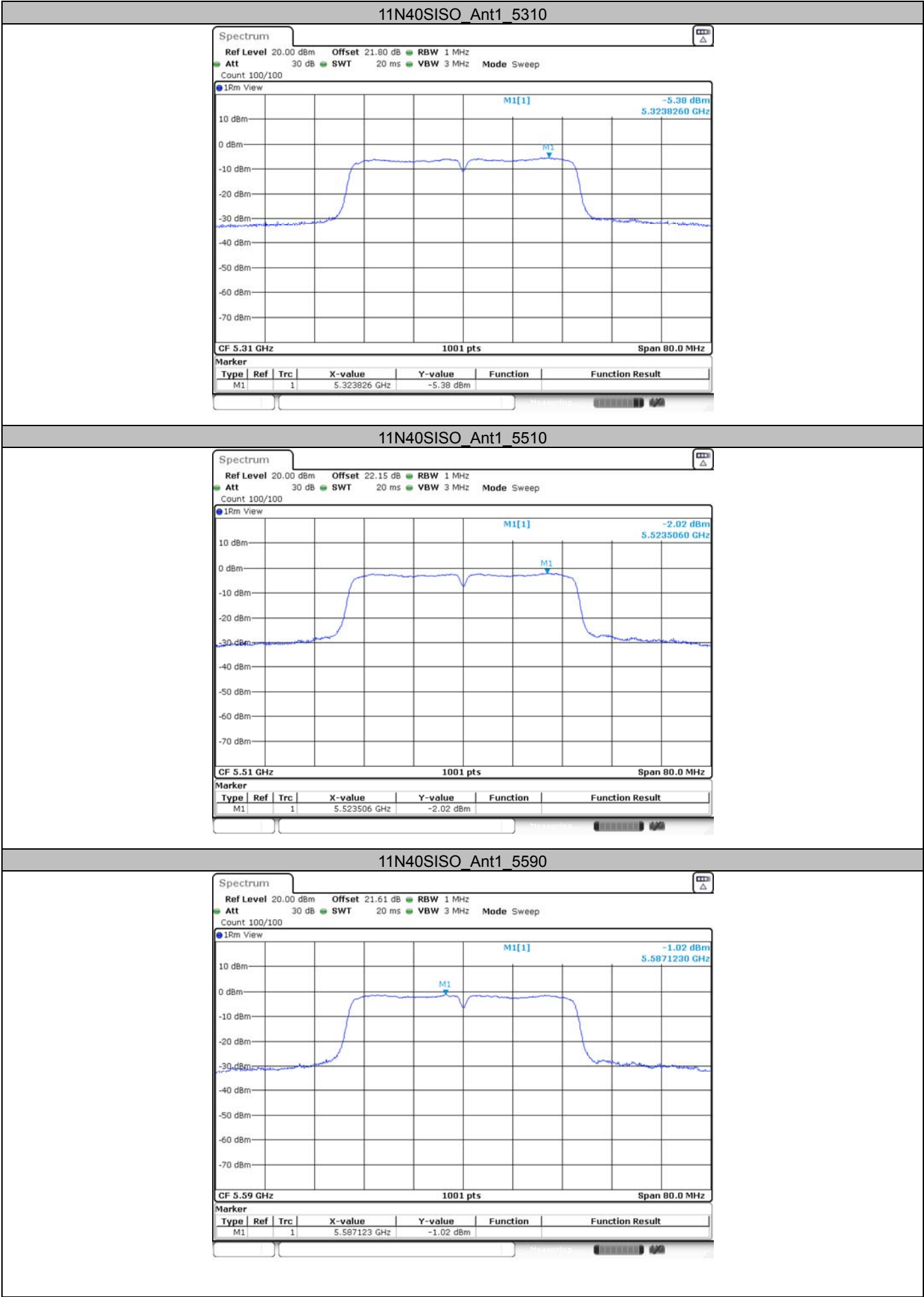


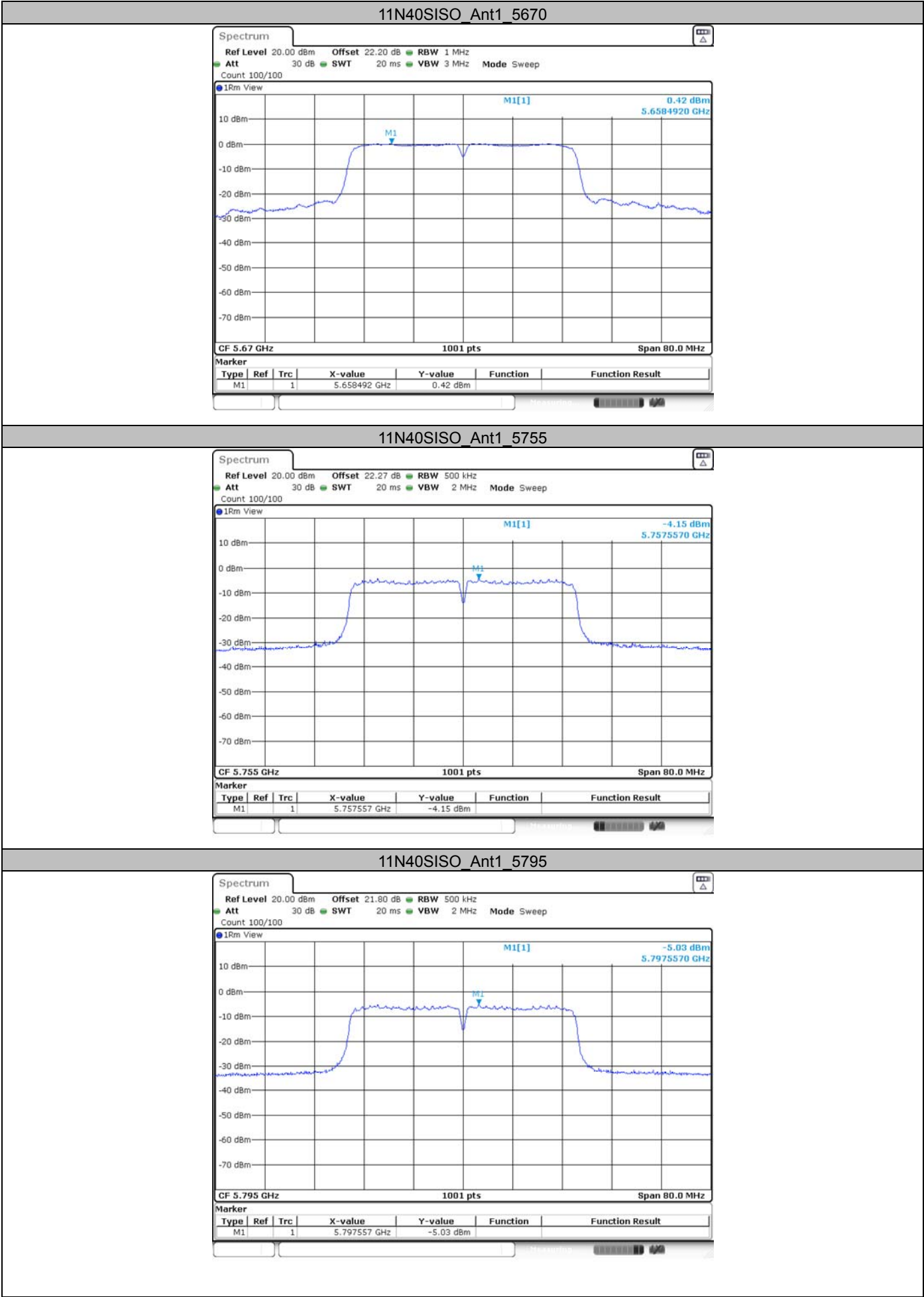


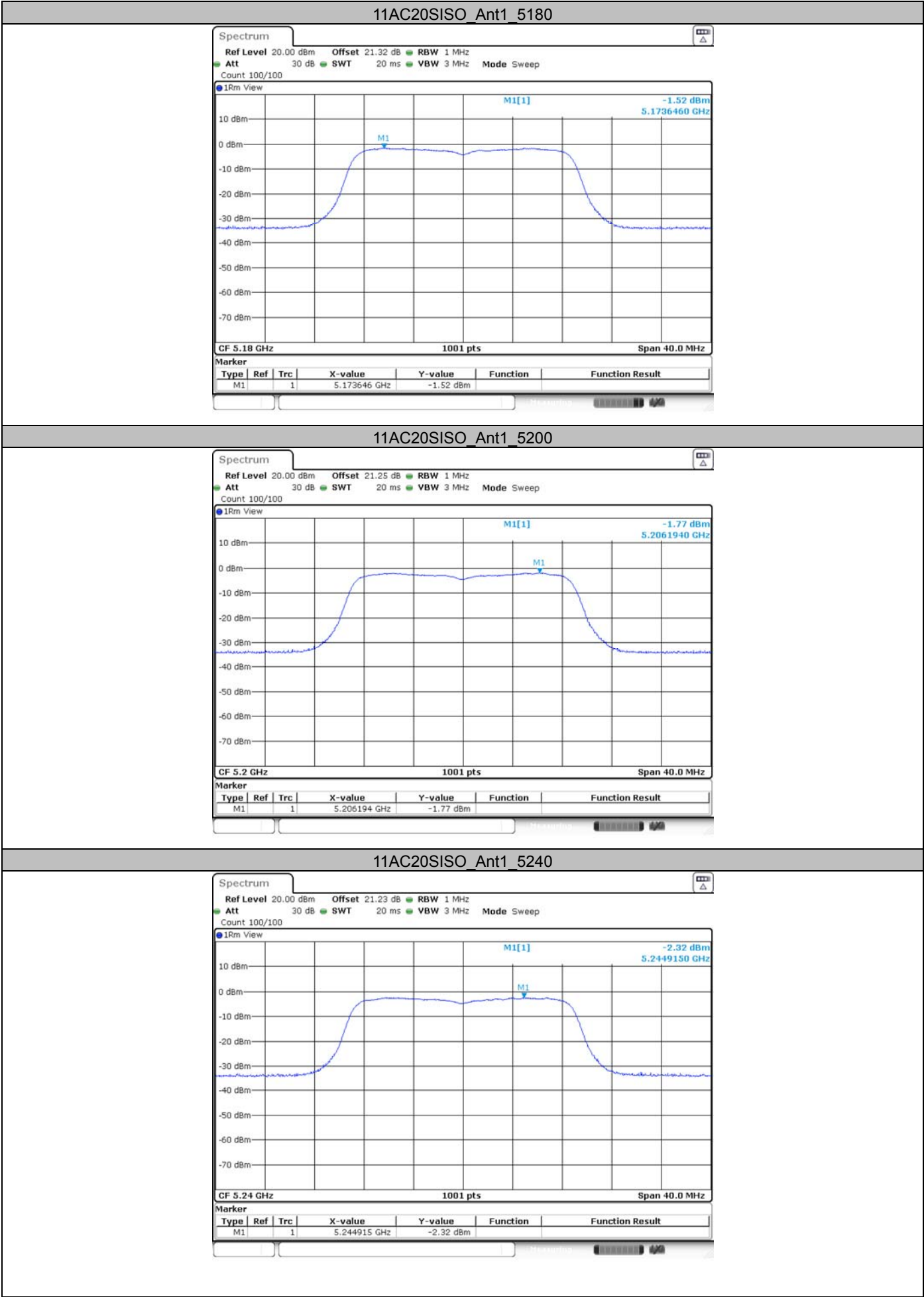


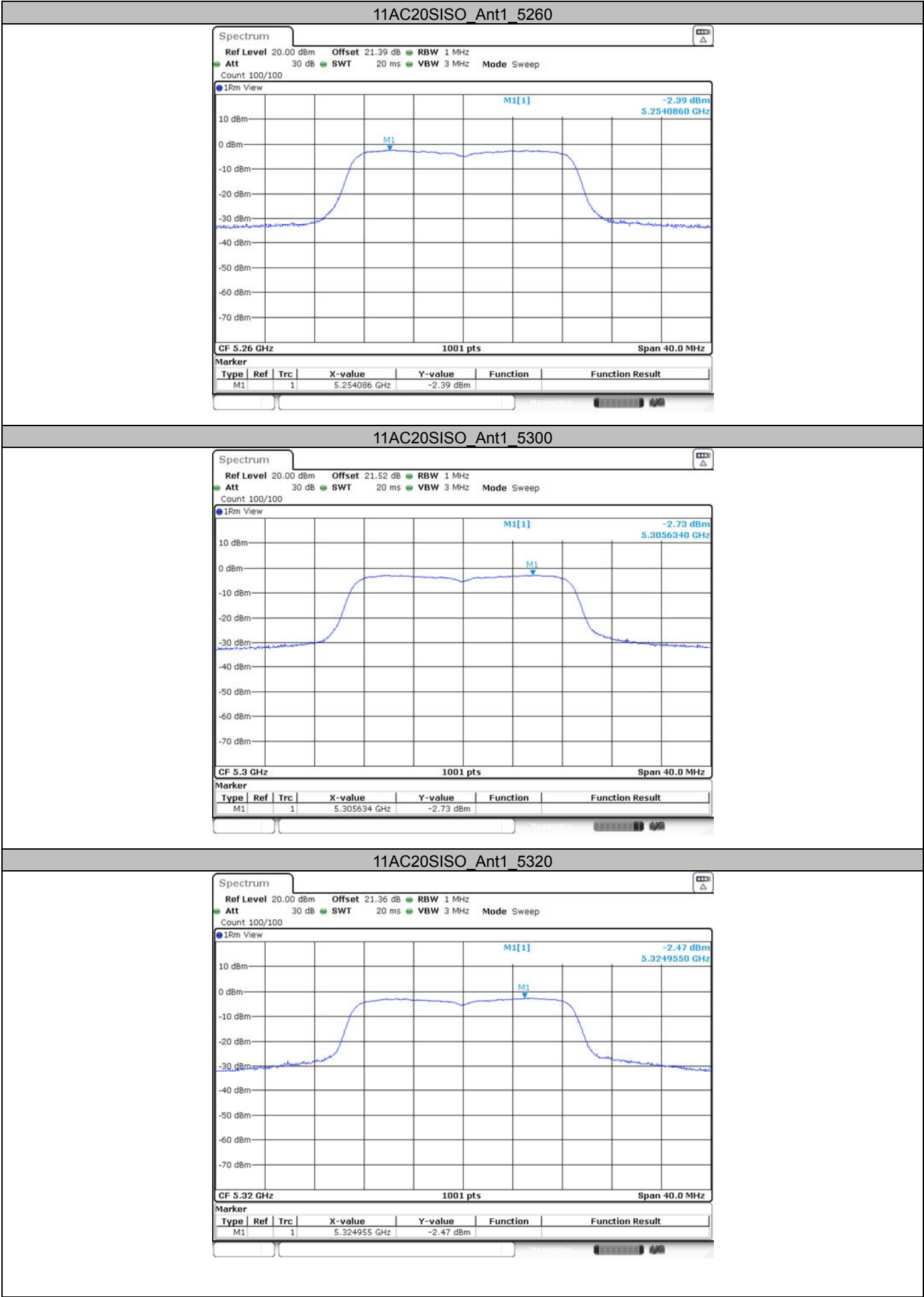


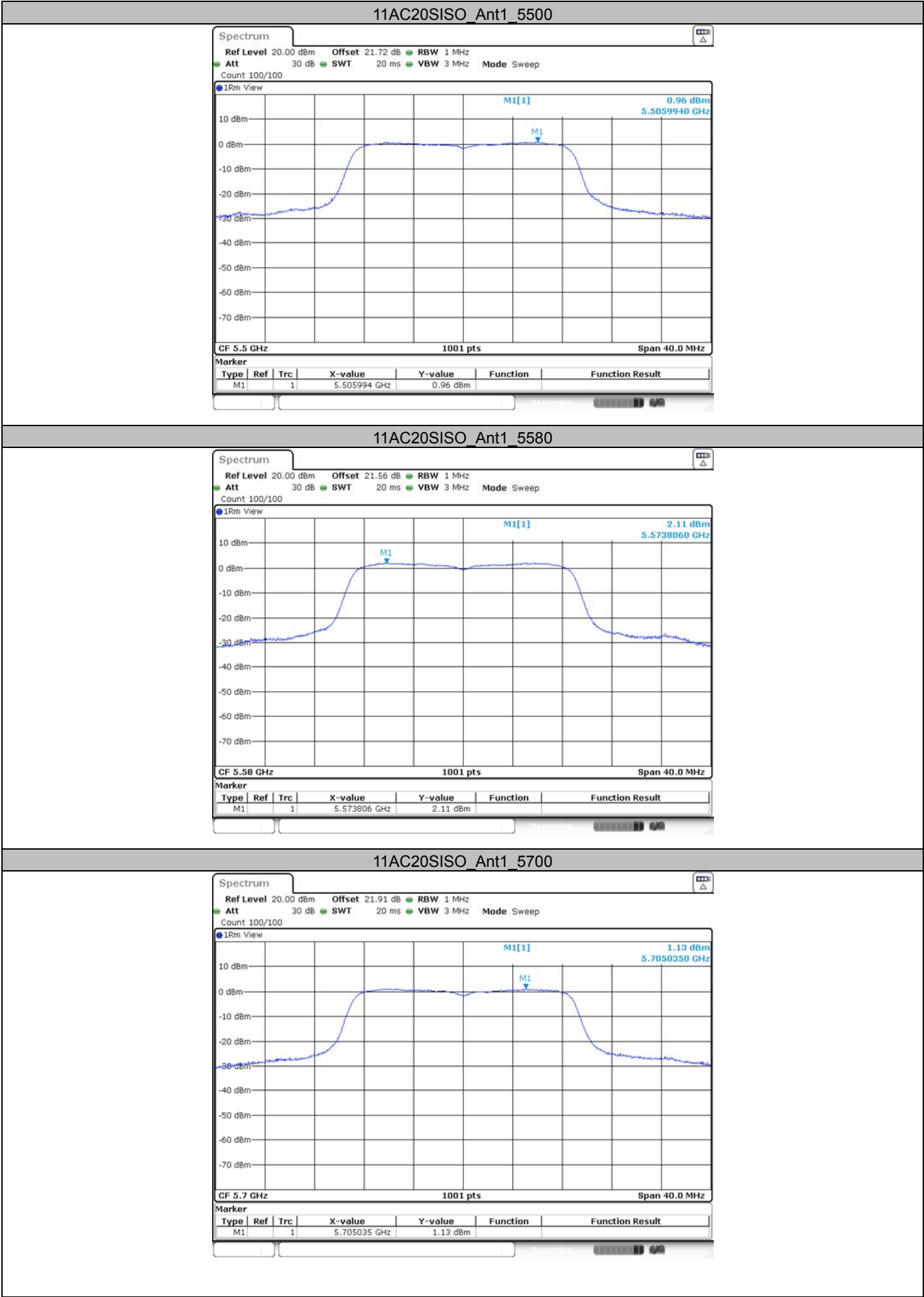




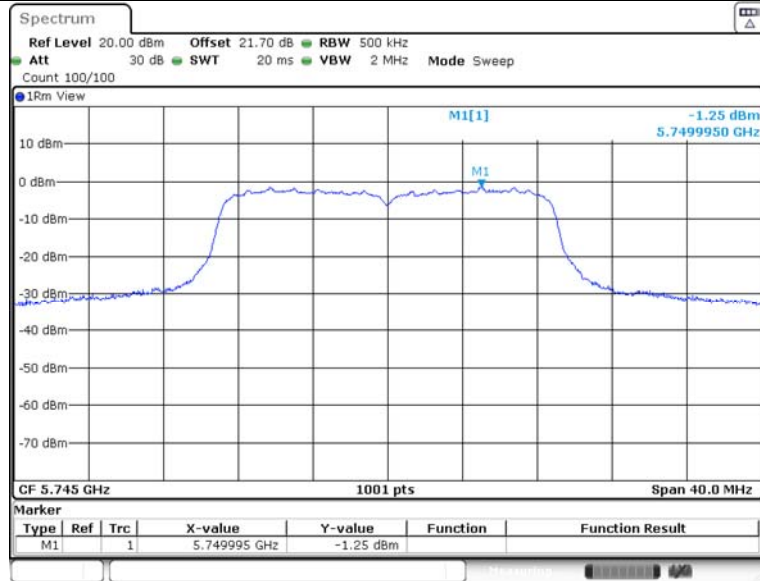




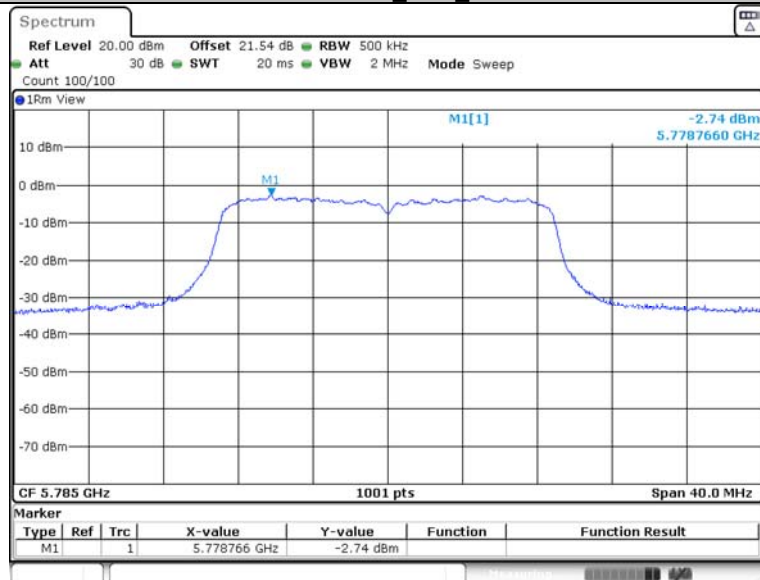




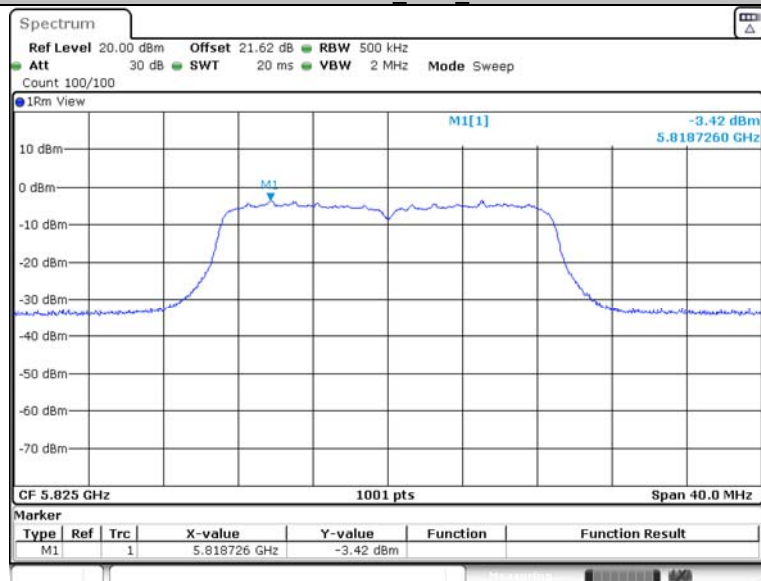
11AC20SISO_Ant1_5745

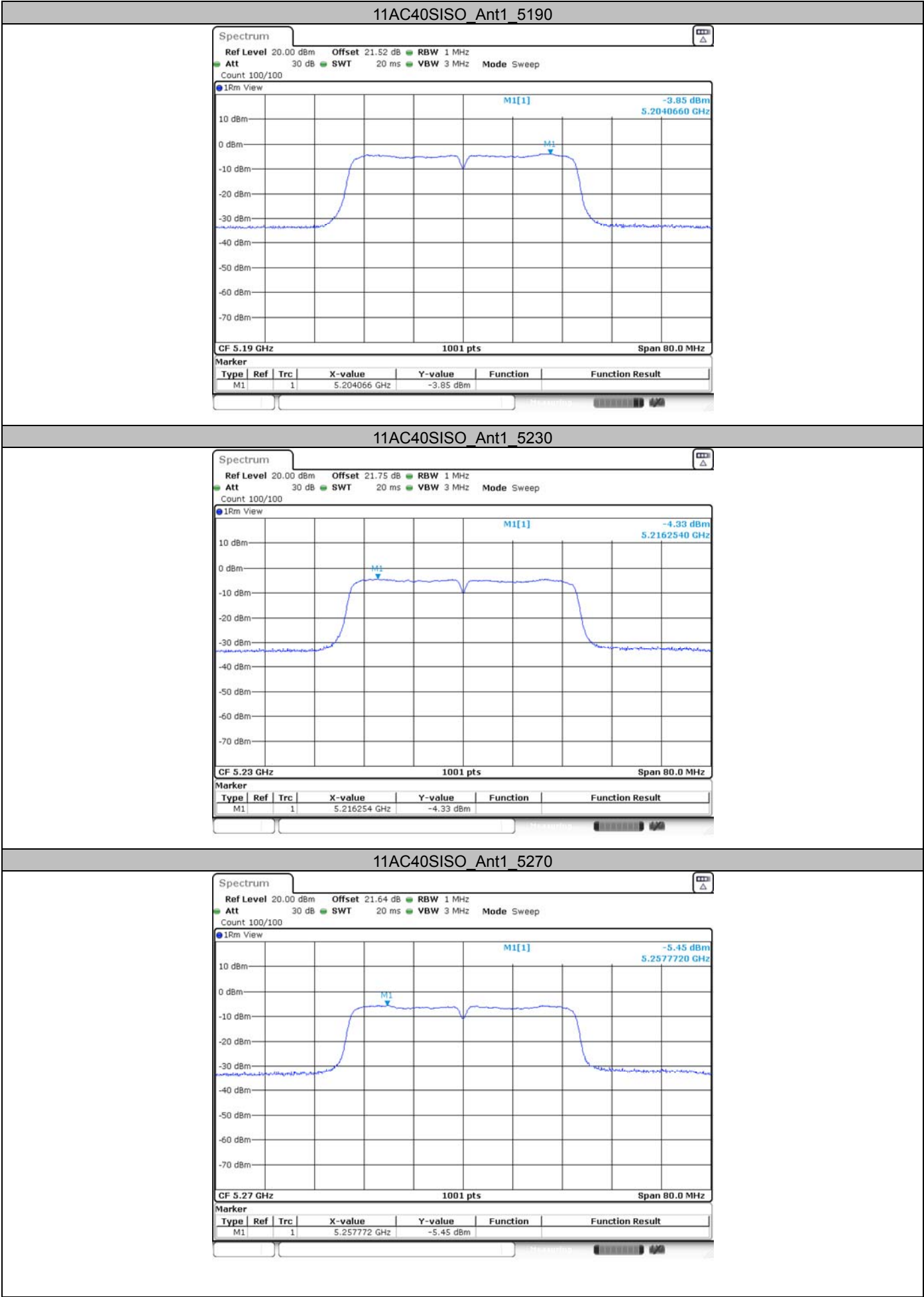


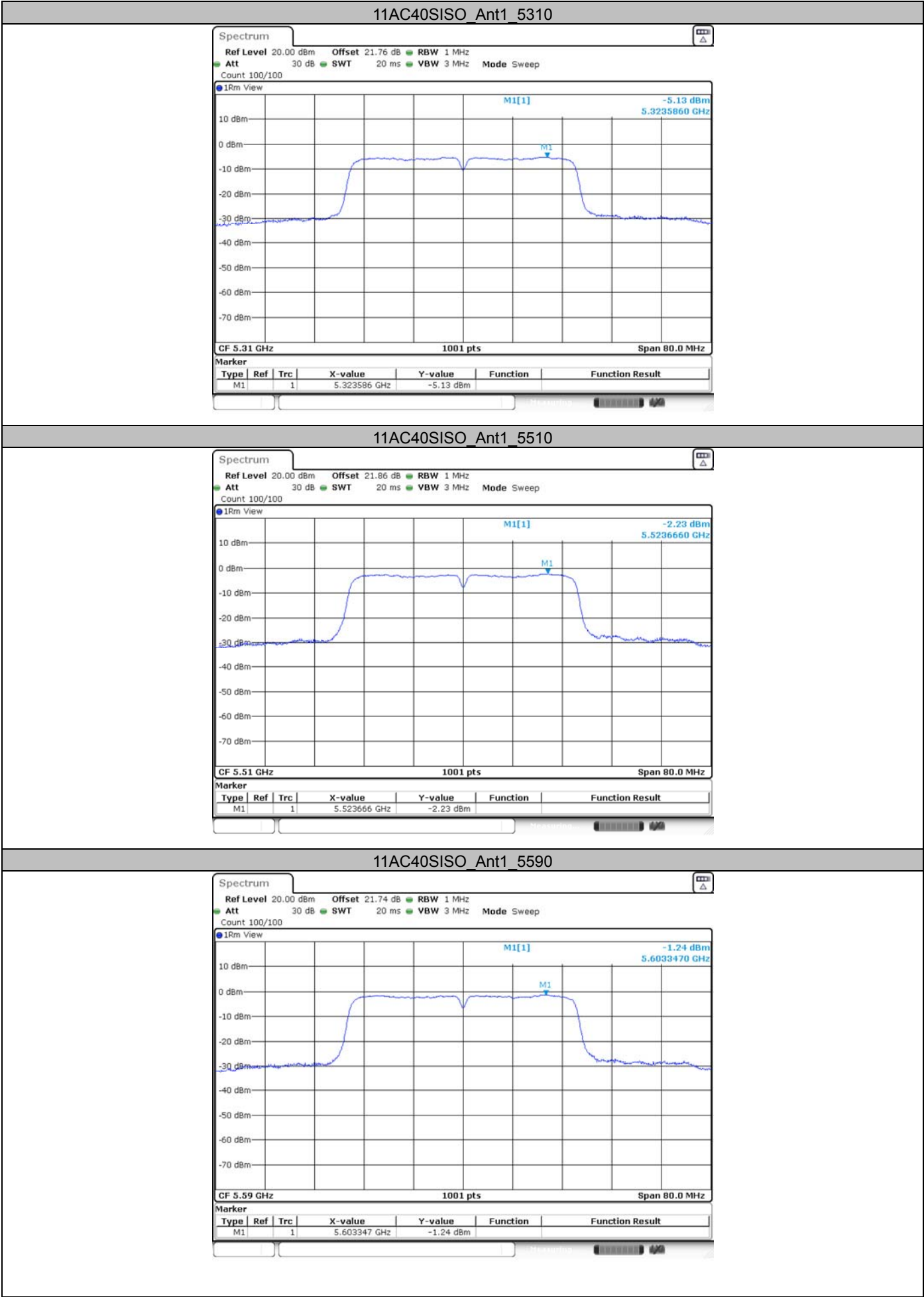
11AC20SISO_Ant1_5785

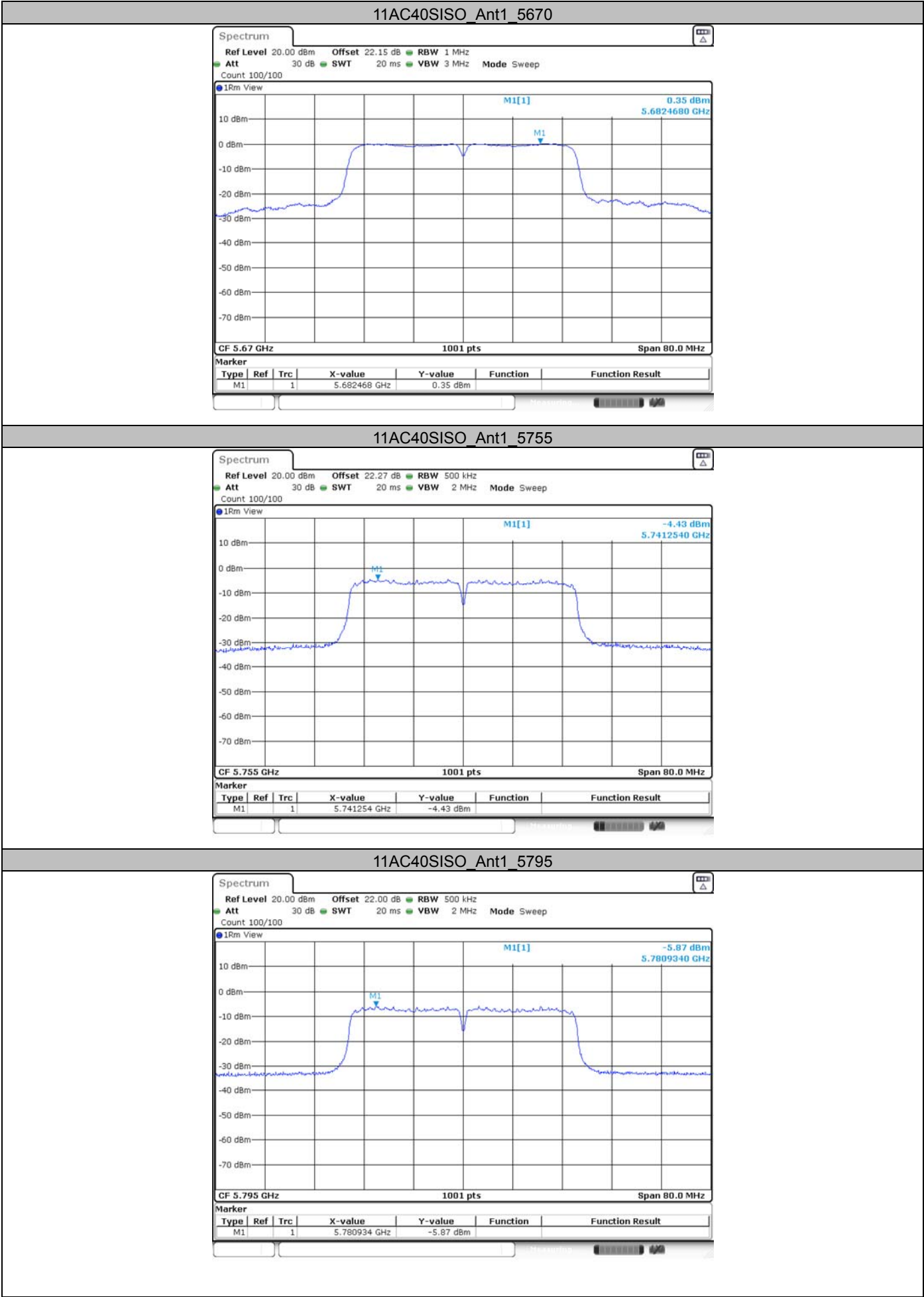


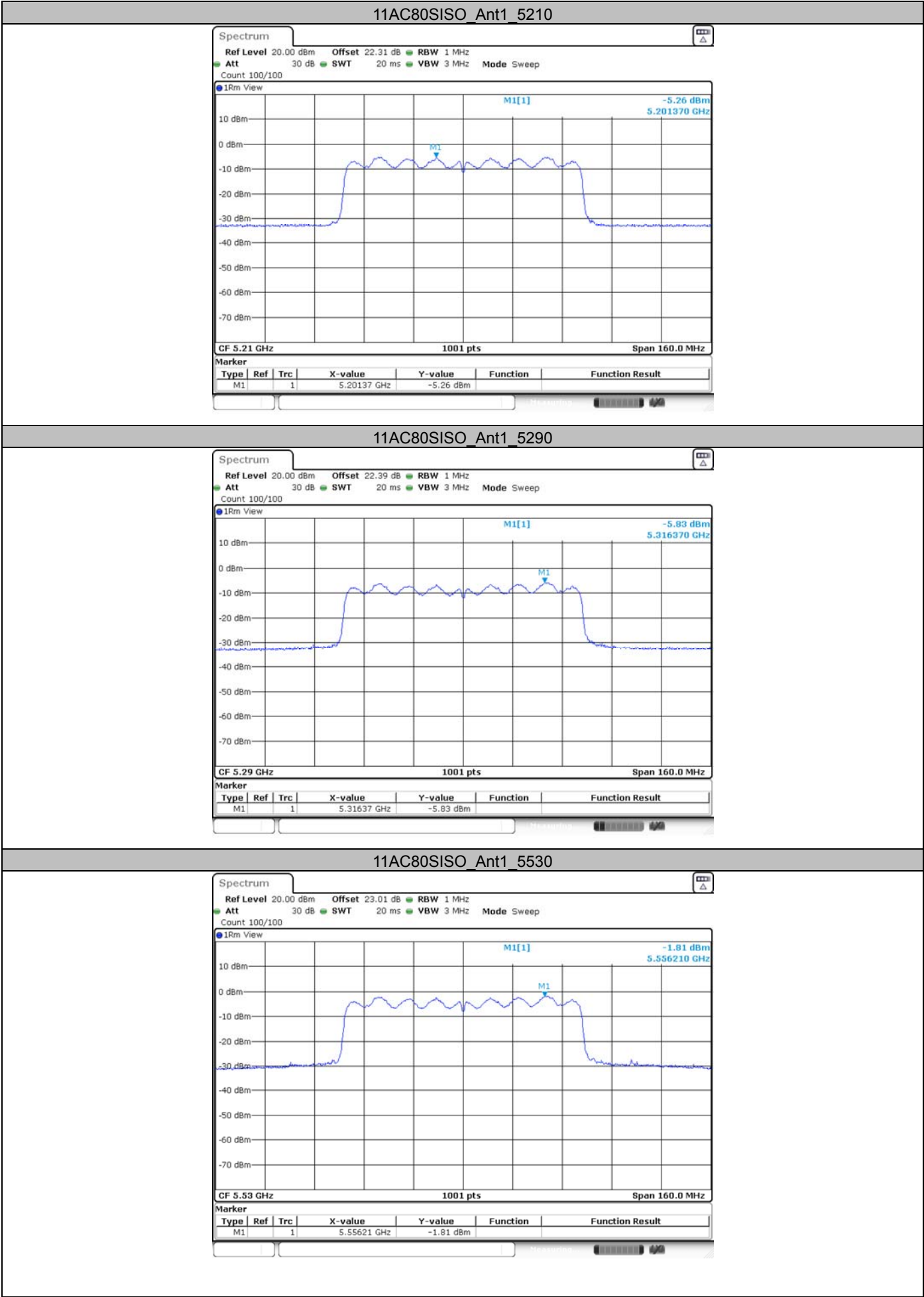
11AC20SISO_Ant1_5825

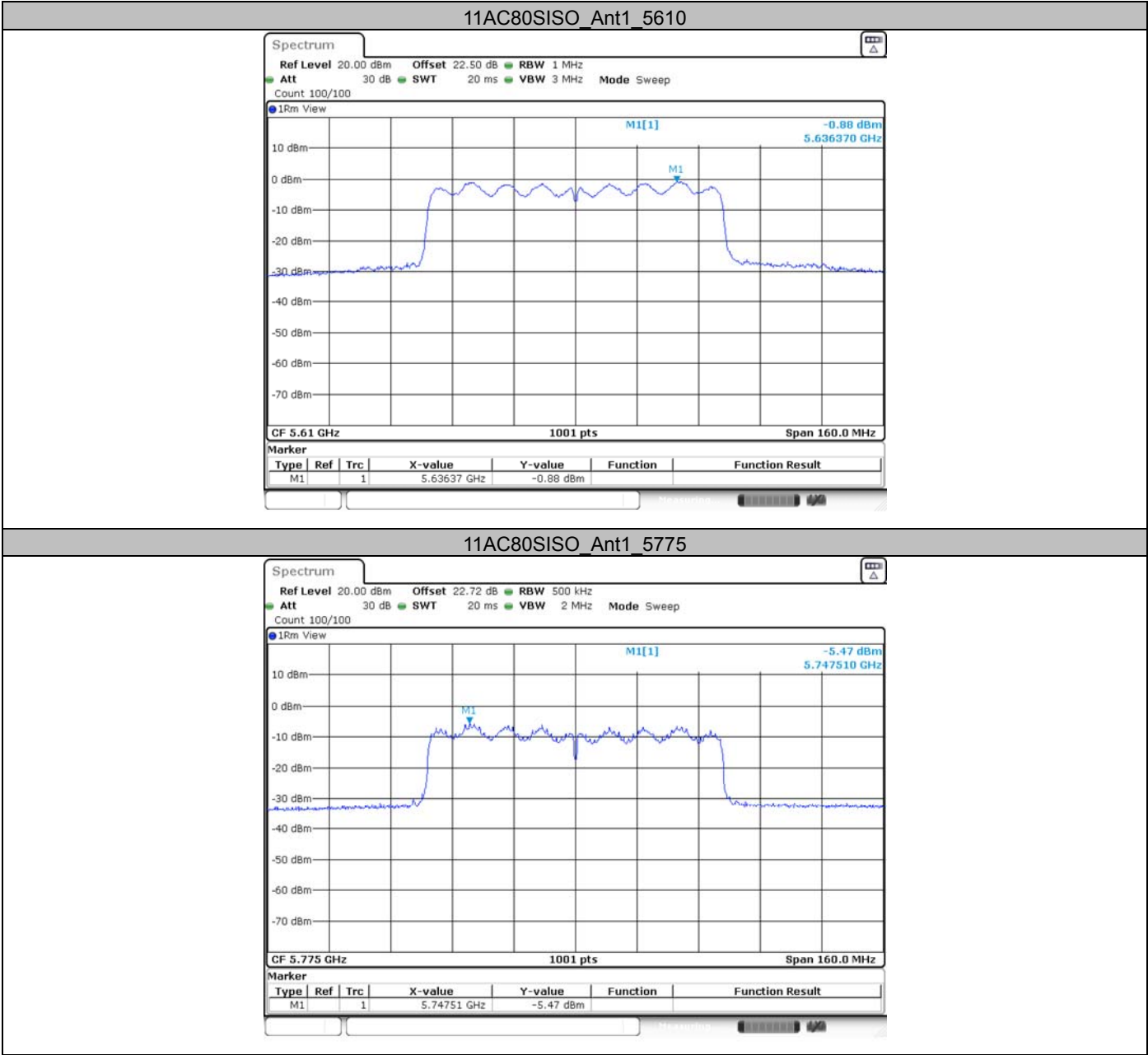










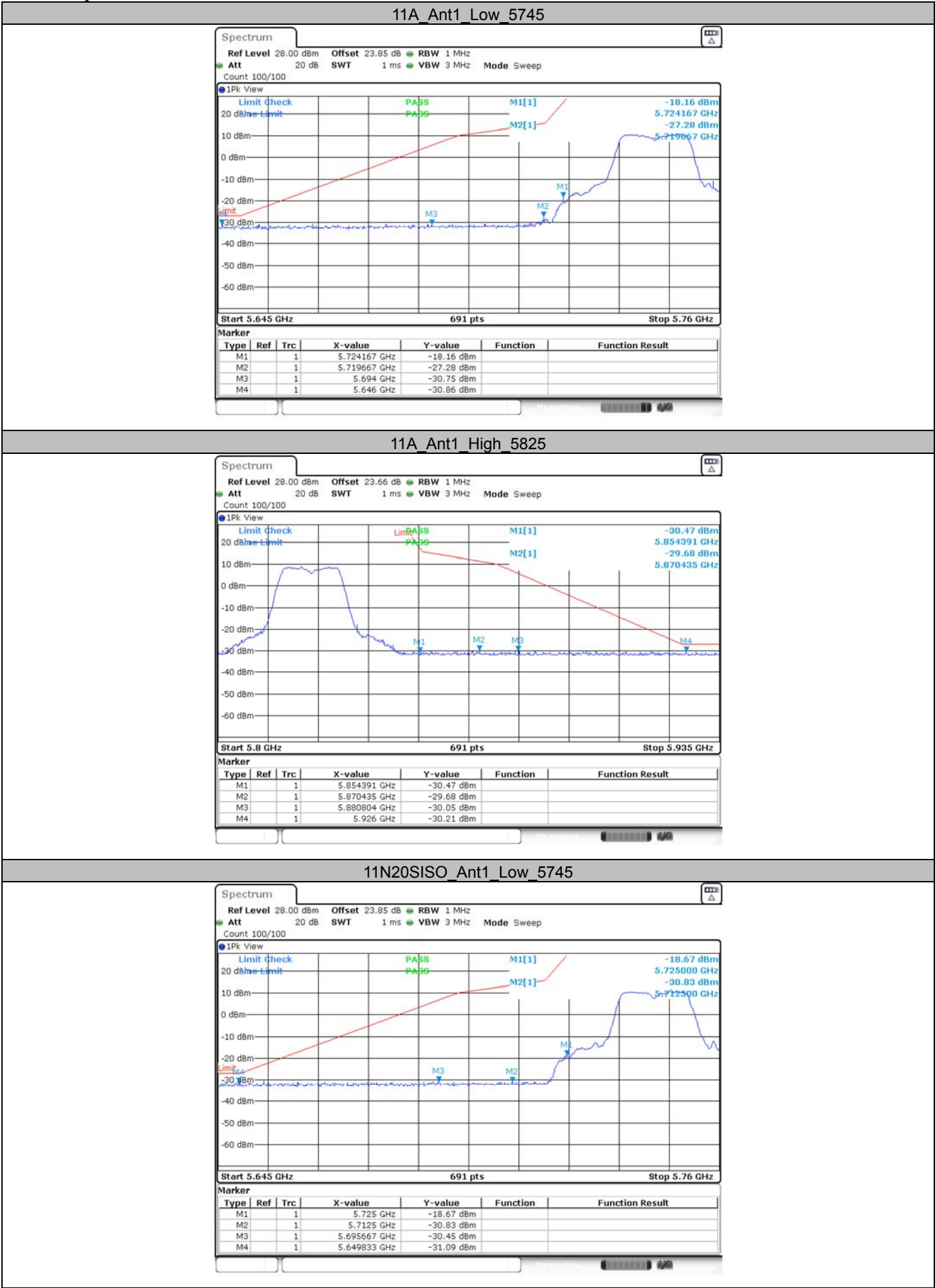


Appendix G: Band edge measurements

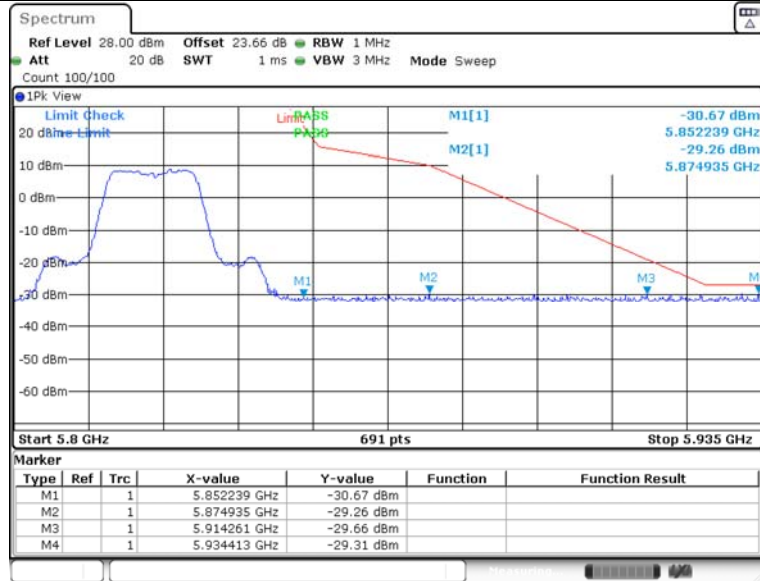
Test Result B4

Test Mode	Antenna	Ch Name	Frequency [MHz]	Freq Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-30.75	≤5.56	PASS
				5700~5720	-27.28	≤15.51	PASS
				5720~5725	-18.16	≤25.10	PASS
				5760~5650	-30.86	≤-27	PASS
		High	5825	5850~5855	-30.47	≤25.61	PASS
				5855~5875	-29.68	≤14.32	PASS
				5875~5925	-30.05	≤-22.71	PASS
				5925~5935	-30.21	≤-27	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-30.45	≤6.79	PASS
				5700~5720	-30.83	≤13.50	PASS
				5720~5725	-18.67	≤27.00	PASS
				5760~5650	-31.09	≤-27	PASS
		High	5825	5850~5855	-30.67	≤20.70	PASS
				5855~5875	-29.26	≤15.58	PASS
				5875~5925	-29.66	≤2.05	PASS
				5925~5935	-29.31	≤-27	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-30.54	≤-1.74	PASS
				5700~5720	-22.28	≤15.14	PASS
				5720~5725	-21.36	≤17.68	PASS
				5780~5650	-30.59	≤-27	PASS
		High	5795	5850~5855	-30.28	≤19.67	PASS
				5855~5875	-30.03	≤10.30	PASS
				5875~5925	-29.82	≤-20.82	PASS
				5925~5935	-30.75	≤-27	PASS
11AC20SISO	Ant1	Low	5745	5650~5700	-30.68	≤3.96	PASS
				5700~5720	-29.06	≤15.51	PASS
				5720~5725	-20.37	≤27.00	PASS
				5760~5650	-31.13	≤-27	PASS
		High	5825	5850~5855	-30.62	≤15.80	PASS
				5855~5875	-29.72	≤12.13	PASS
				5875~5925	-29.6	≤-16.77	PASS
				5925~5935	-30.03	≤-27	PASS
11AC40SISO	Ant1	Low	5755	5650~5700	-30.92	≤6.65	PASS
				5700~5720	-20.72	≤15.25	PASS
				5720~5725	-20.55	≤25.26	PASS
				5780~5650	-30.75	≤-27	PASS
		High	5795	5850~5855	-30.01	≤26.75	PASS
				5855~5875	-30.21	≤14.32	PASS
				5875~5925	-30.05	≤-7.91	PASS
				5925~5935	-30.17	≤-27	PASS
11AC80SISO	Ant1	Low	5775	5650~5700	-26.52	≤-0.94	PASS
				5700~5720	-24.99	≤15.48	PASS
				5720~5725	-22.41	≤25.40	PASS
				5800~5650	-32.04	≤-27	PASS
		High	5775	5850~5855	-27.81	≤16.23	PASS
				5855~5875	-26.86	≤11.83	PASS
				5875~5925	-30.53	≤7.28	PASS
				5925~5935	-30.8	≤-27	PASS

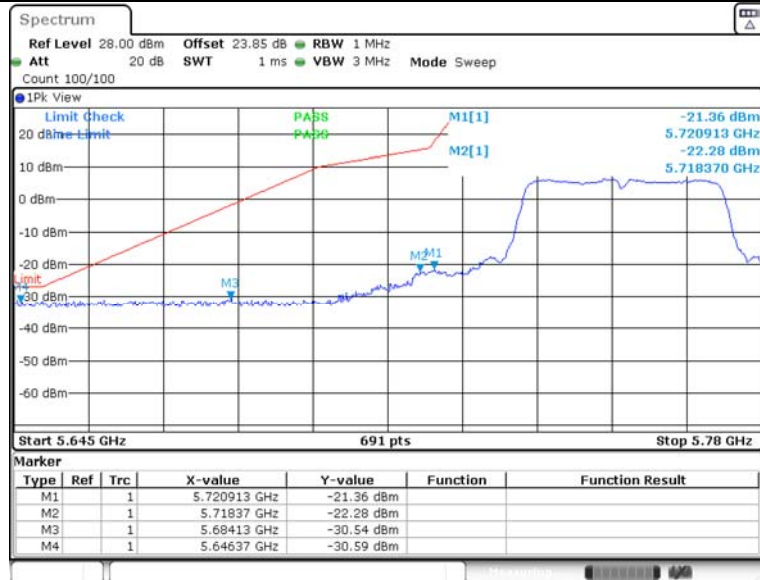
Test Graphs B4



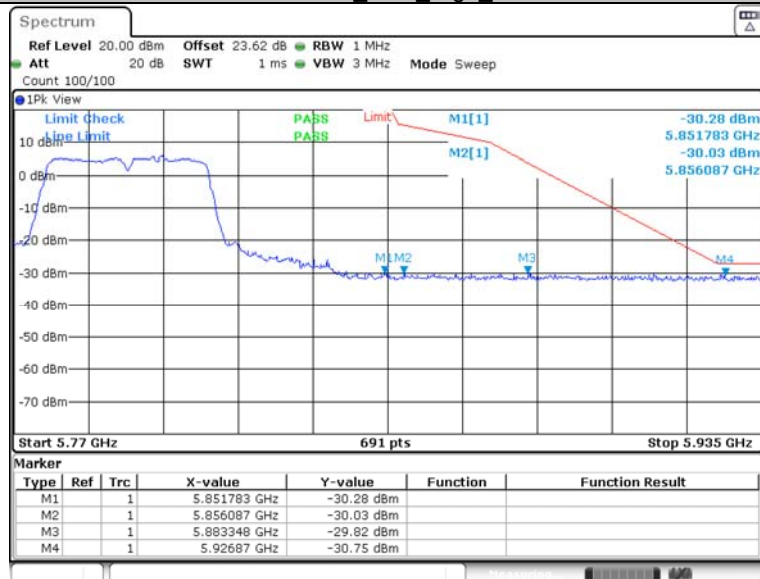
11N20SISO_Ant1_High_5825



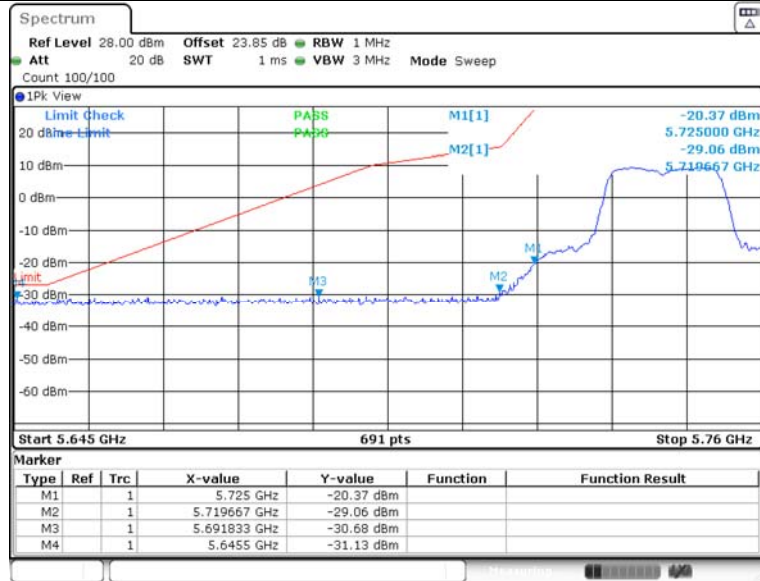
11N40SISO_Ant1_Low_5755



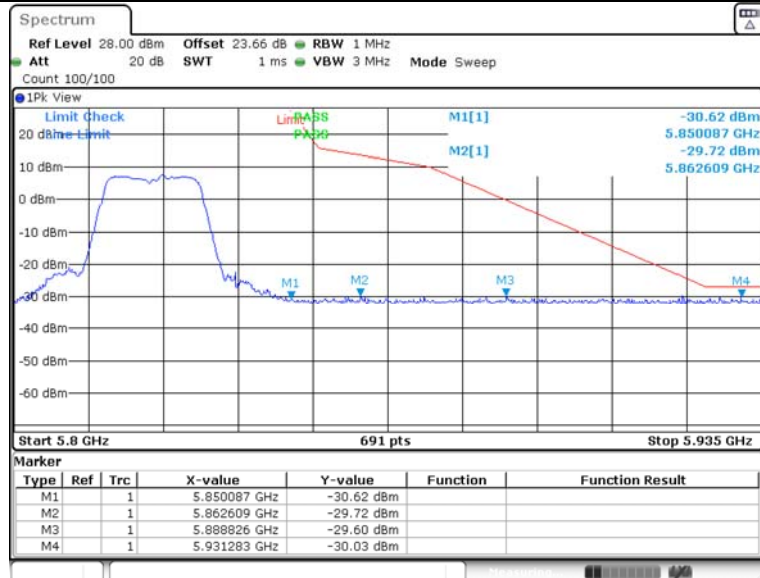
11N40SISO_Ant1_High_5795



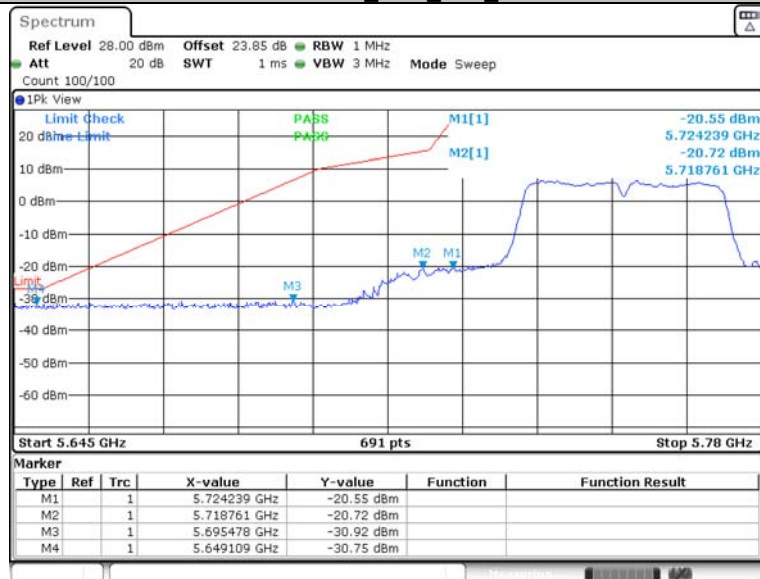
11AC20SISO_Ant1_Low_5745



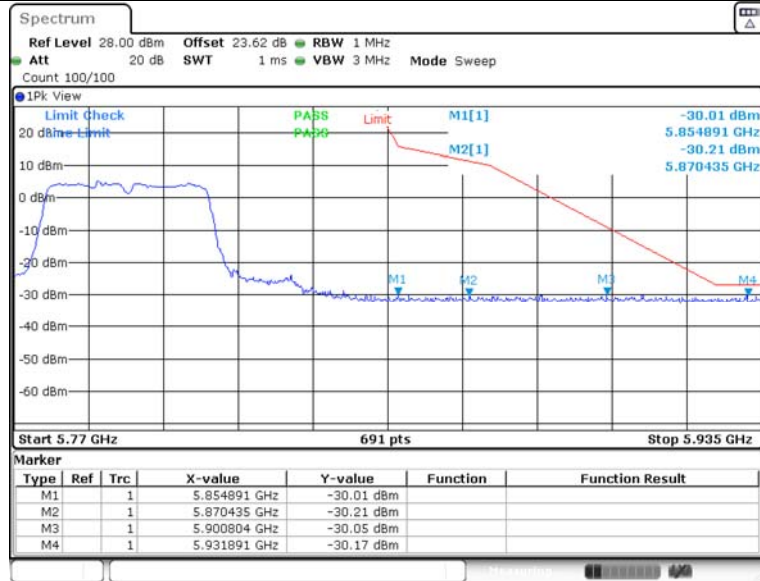
11AC20SISO_Ant1_High_5825



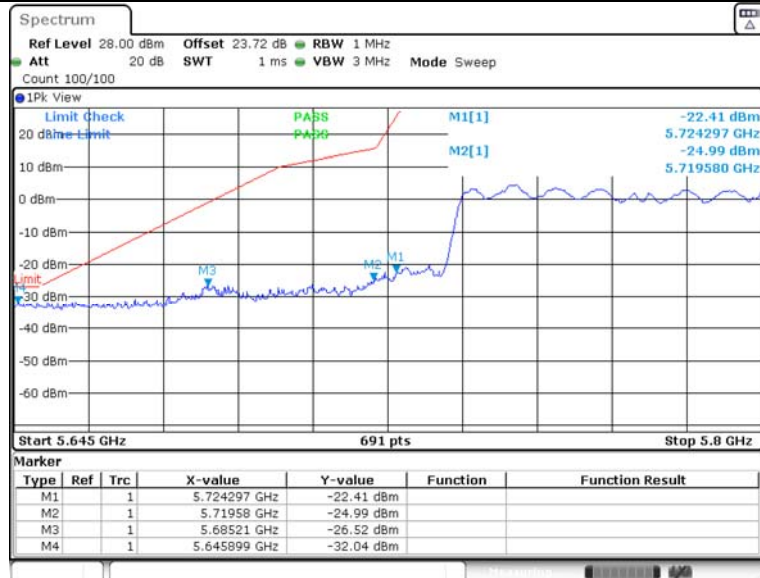
11AC40SISO_Ant1_Low_5755



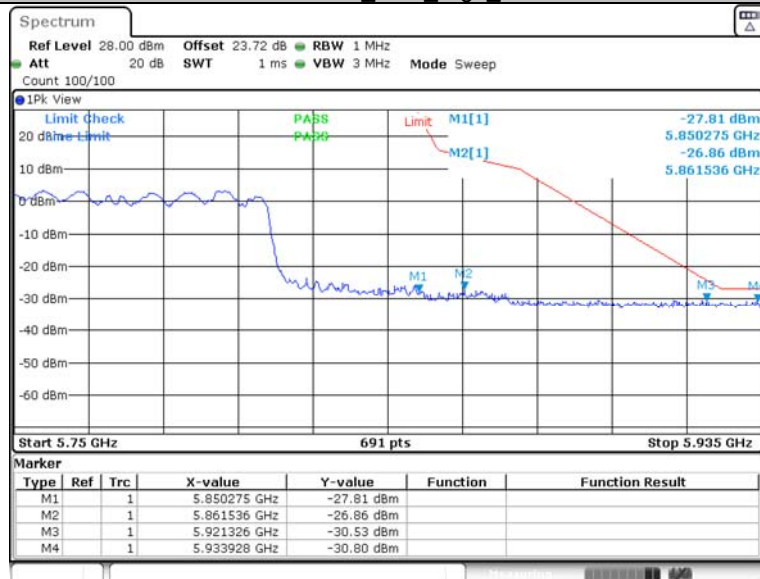
11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



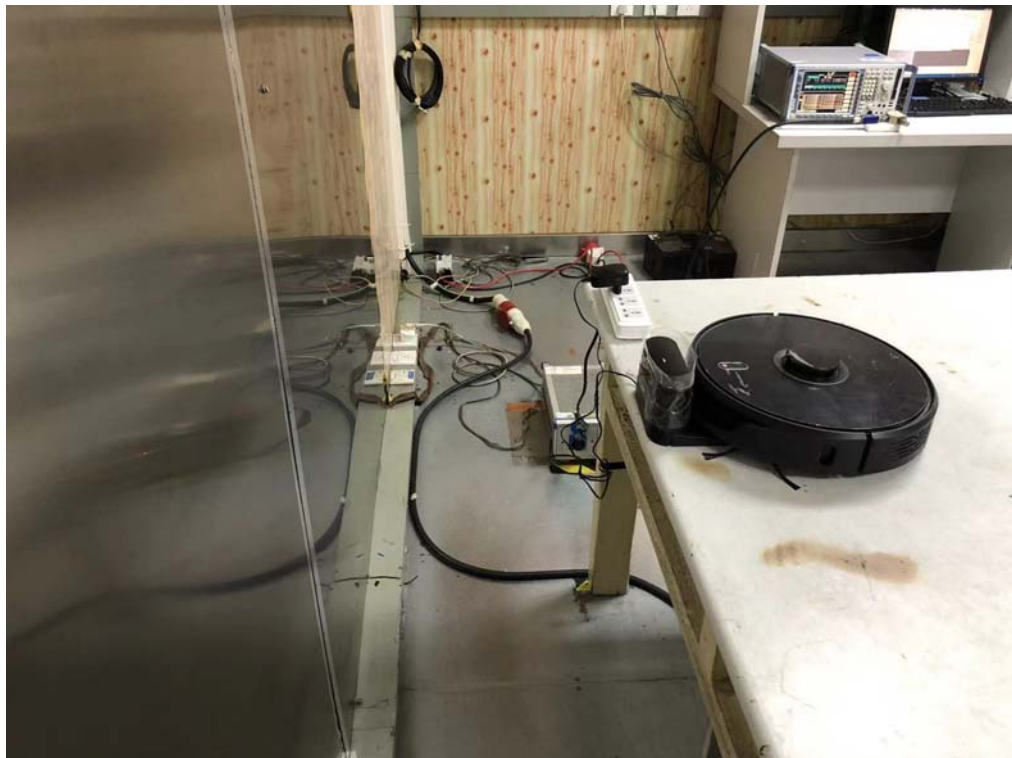
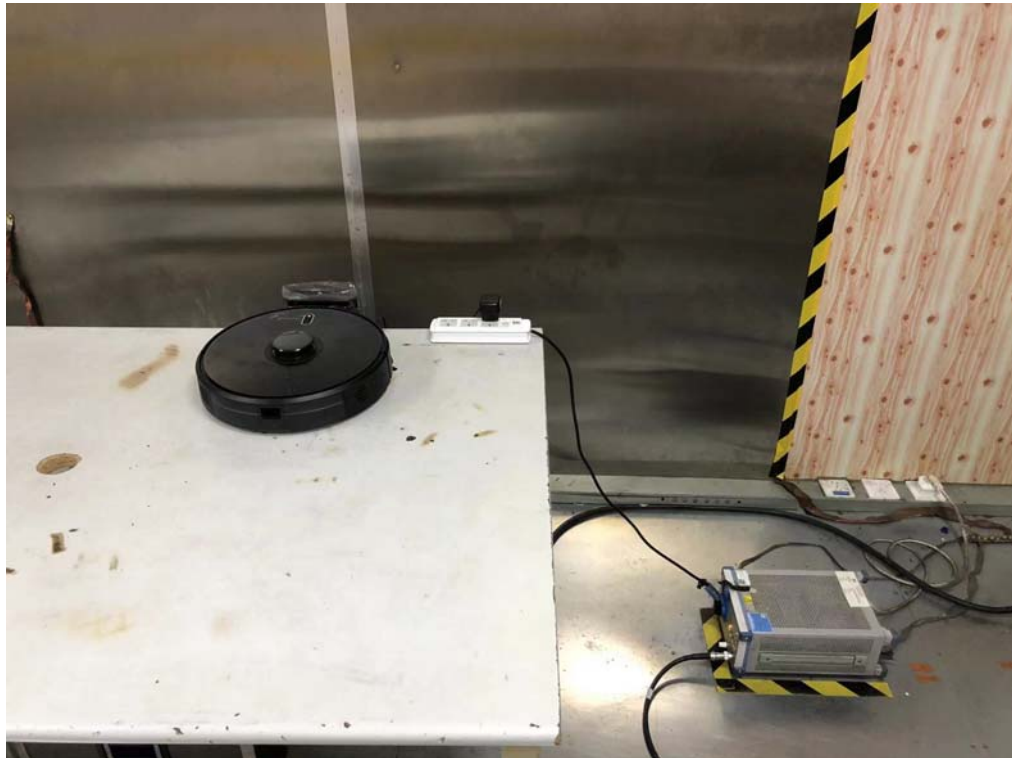
Appendix H: Frequency Stability Test Result

Voltage								
Test Mode	Antenna	Frequency[M Hz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-40000.00	-7.722008	20	PASS
		5260	NV	NT	-40000.00	-7.604563	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.604563	20	PASS
		5500	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.636364	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
		5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	0.00	0.000000	20	PASS

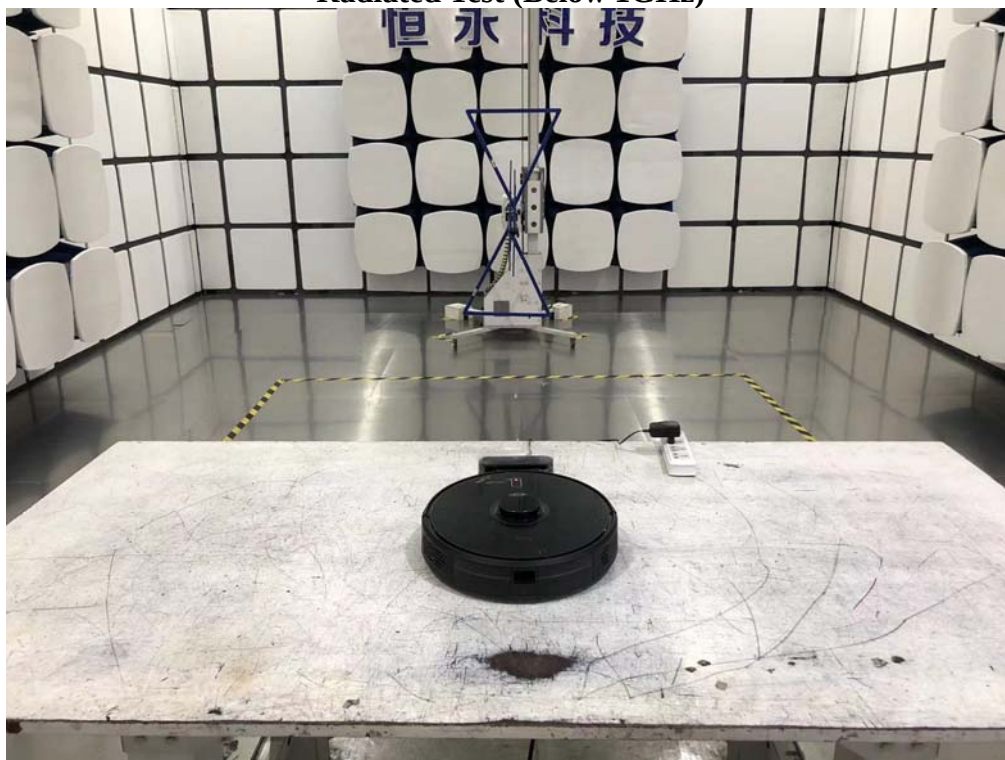
Temperature								
Test Mode	Antenna	Frequency[M Hz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-20000.00	-3.861004	20	PASS
			NV	-20	-20000.00	-3.861004	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-40000.00	-7.722008	20	PASS
			NV	20	-40000.00	-7.722008	20	PASS
			NV	30	-40000.00	-7.722008	20	PASS
			NV	40	-20000.00	-3.861004	20	PASS
			NV	50	-20000.00	-3.861004	20	PASS
		5260	NV	-30	-40000.00	-7.604563	20	PASS
			NV	-20	-40000.00	-7.604563	20	PASS
			NV	-10	-20000.00	-3.802281	20	PASS
			NV	0	-20000.00	-3.802281	20	PASS
			NV	10	-20000.00	-3.802281	20	PASS
			NV	20	-20000.00	-3.802281	20	PASS
			NV	30	-40000.00	-7.604563	20	PASS
			NV	40	-40000.00	-7.604563	20	PASS
			NV	50	-20000.00	-3.802281	20	PASS
		5500	NV	-30	-40000.00	-7.272727	20	PASS
			NV	-20	-20000.00	-3.636364	20	PASS
			NV	-10	-40000.00	-7.272727	20	PASS
			NV	0	-20000.00	-3.636364	20	PASS
			NV	10	-20000.00	-3.636364	20	PASS
			NV	20	-20000.00	-3.636364	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.636364	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS

11. TEST SETUP PHOTO

Conducted Test



Radiated Test (Below 1GHz)



Radiated Test (Above 1GHz)

