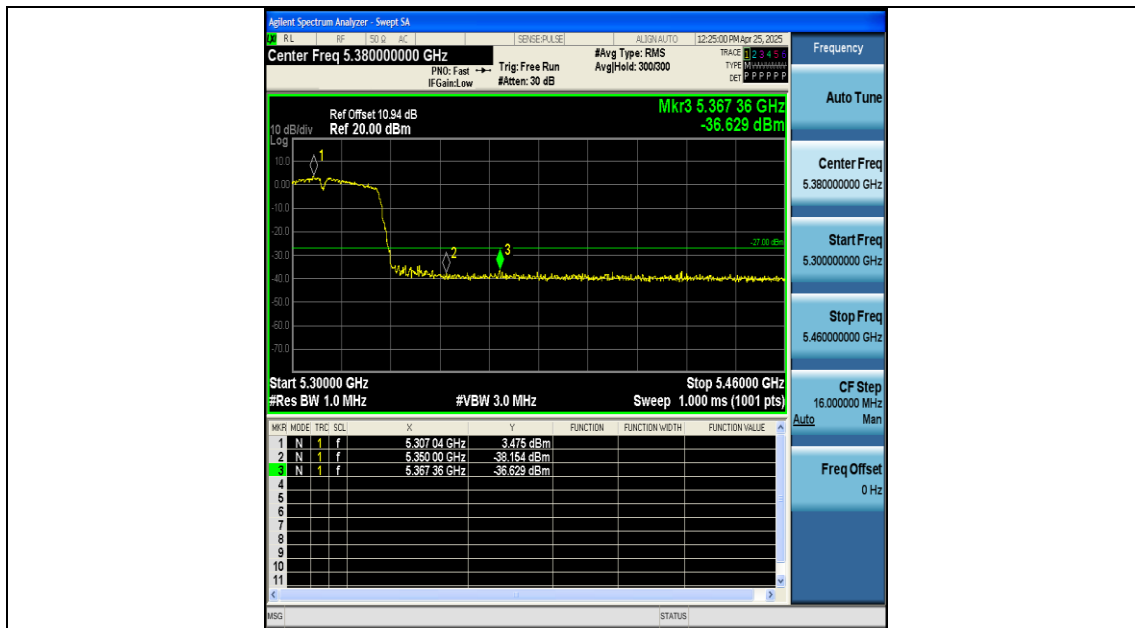
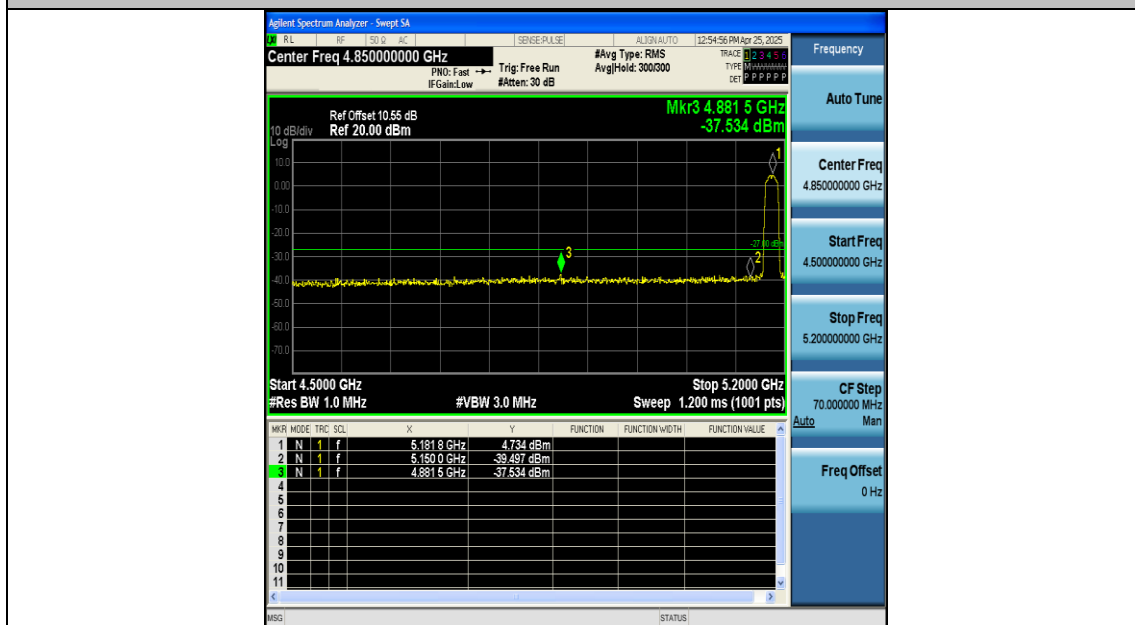
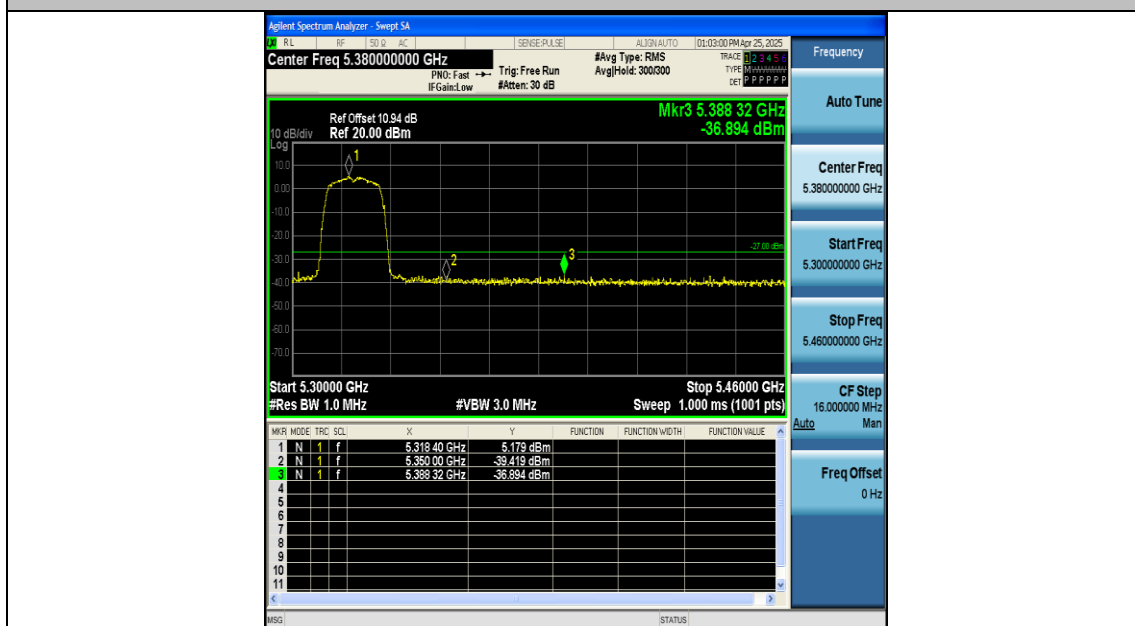




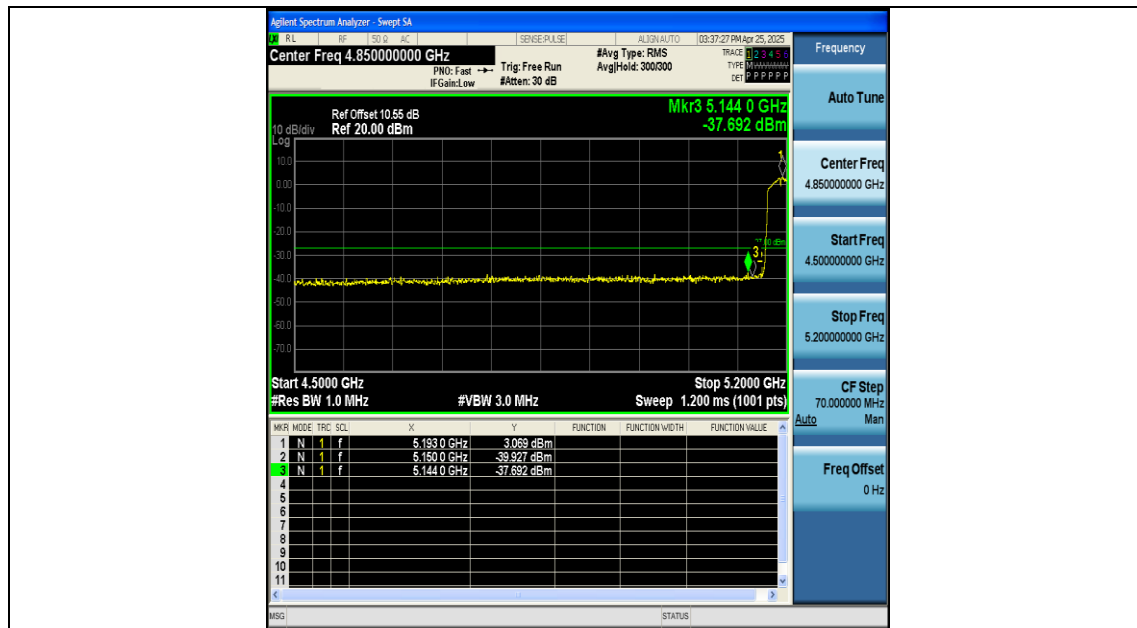
11N40SISO-Ant1-5310-PASS



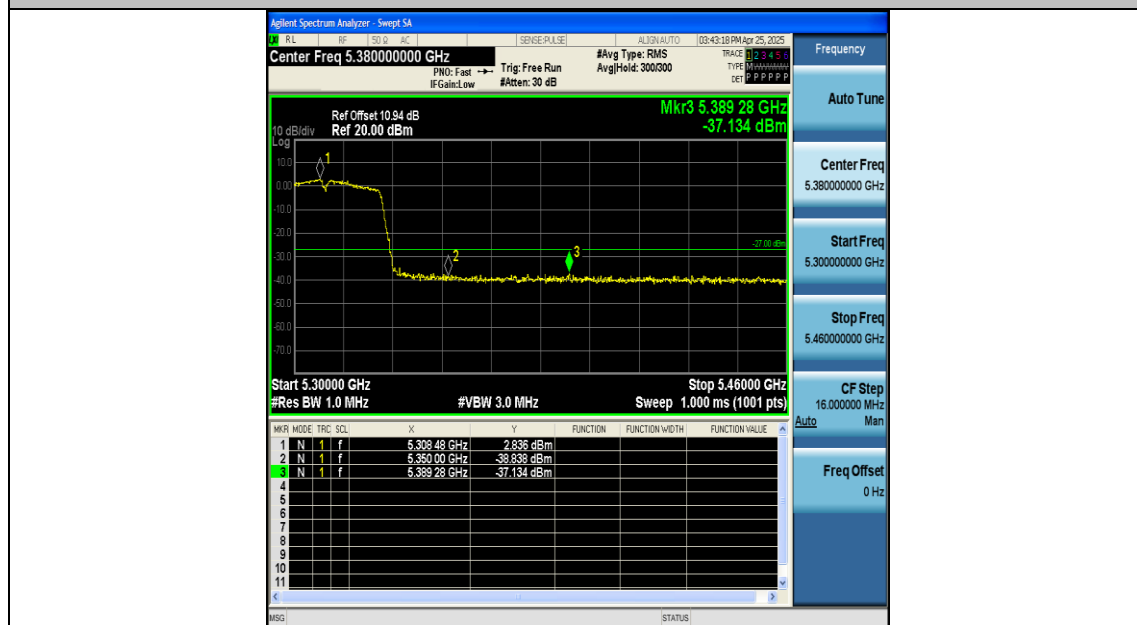
11AC20SISO-Ant1-5180-PASS



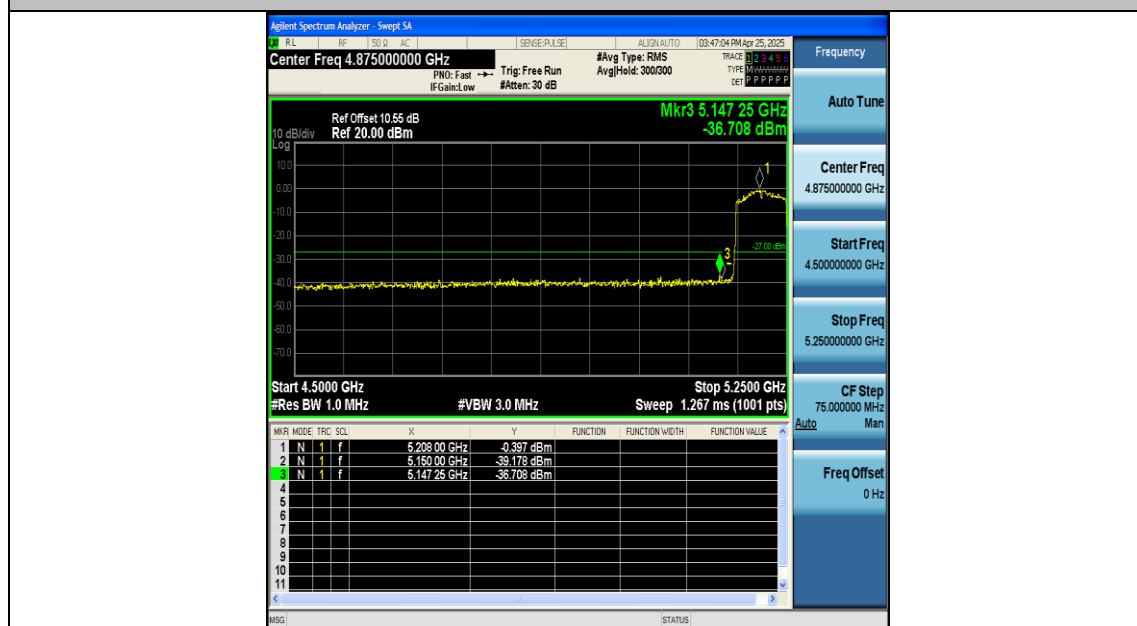
11AC20SISO-Ant1-5320-PASS



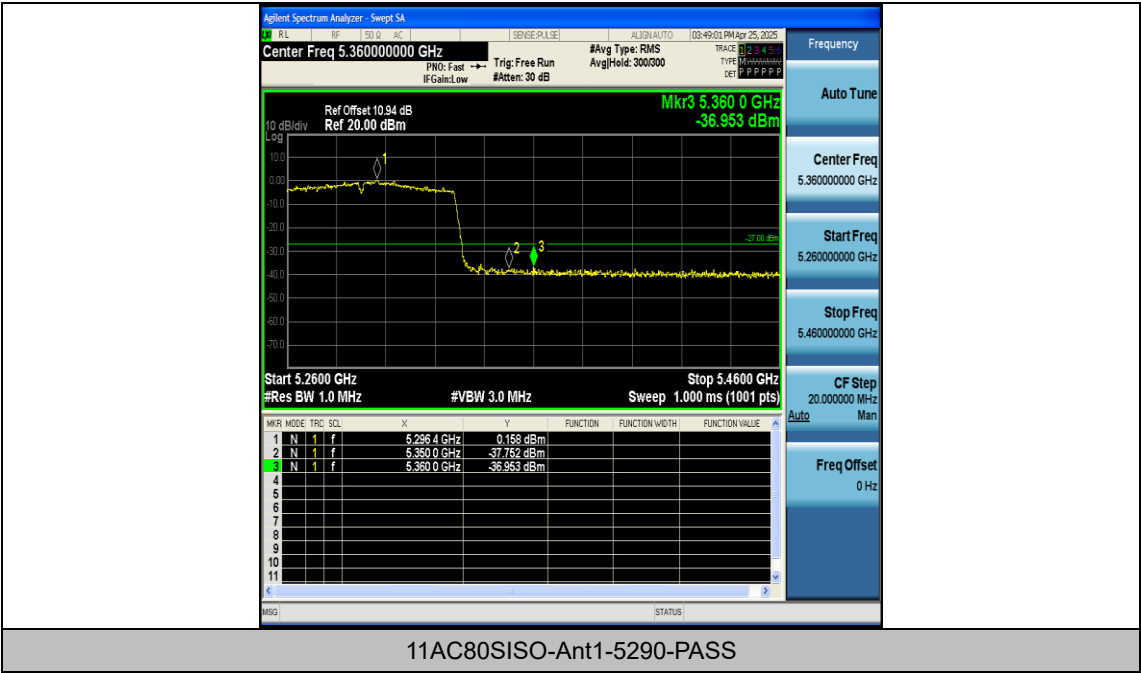
11AC40SISO-Ant1-5190-PASS



11AC40SISO-Ant1-5310-PASS



11AC80SISO-Ant1-5210-PASS



Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	4.3	5180.005129	5150 – 5250	PASS
5180	20	3.2	5179.969335	5150 – 5250	PASS
5180	50	3.7	5180.034933	5150 – 5250	PASS
5180	40	3.7	5179.961207	5150 – 5250	PASS
5180	30	3.7	5179.944016	5150 – 5250	PASS
5180	20	3.7	5179.953366	5150 – 5250	PASS
5180	10	3.7	5179.926704	5150 – 5250	PASS
5180	0	3.7	5179.968161	5150 – 5250	PASS
5180	-10	3.7	5180.093015	5150 – 5250	PASS
5180	-20	3.7	5179.977630	5150 – 5250	PASS
5180	-30	3.7	5179.939434	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	4.3	5199.946412	5150 – 5250	PASS
5200	20	3.2	5200.094176	5150 – 5250	PASS
5200	50	3.7	5200.039637	5150 – 5250	PASS
5200	40	3.7	5199.934464	5150 – 5250	PASS
5200	30	3.7	5200.037124	5150 – 5250	PASS
5200	20	3.7	5200.046432	5150 – 5250	PASS
5200	10	3.7	5199.944760	5150 – 5250	PASS
5200	0	3.7	5199.947695	5150 – 5250	PASS
5200	-10	3.7	5199.921535	5150 – 5250	PASS
5200	-20	3.7	5200.068697	5150 – 5250	PASS
5200	-30	3.7	5200.019136	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	4.3	5240.022422	5150 – 5250	PASS
5240	20	3.2	5239.979973	5150 – 5250	PASS
5240	50	3.7	5239.911140	5150 – 5250	PASS
5240	40	3.7	5240.011221	5150 – 5250	PASS
5240	30	3.7	5240.076001	5150 – 5250	PASS
5240	20	3.7	5240.097196	5150 – 5250	PASS
5240	10	3.7	5239.964981	5150 – 5250	PASS
5240	0	3.7	5239.934266	5150 – 5250	PASS
5240	-10	3.7	5239.964559	5150 – 5250	PASS
5240	-20	3.7	5240.005501	5150 – 5250	PASS
5240	-30	3.7	5239.949387	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	4.3	5190.087750	5150 – 5250	PASS
5190	20	3.2	5189.930950	5150 – 5250	PASS
5190	50	3.7	5189.928768	5150 – 5250	PASS
5190	40	3.7	5189.971984	5150 – 5250	PASS
5190	30	3.7	5189.981768	5150 – 5250	PASS
5190	20	3.7	5190.087799	5150 – 5250	PASS
5190	10	3.7	5190.093155	5150 – 5250	PASS
5190	0	3.7	5190.012565	5150 – 5250	PASS
5190	-10	3.7	5190.021701	5150 – 5250	PASS
5190	-20	3.7	5189.987662	5150 – 5250	PASS
5190	-30	3.7	5190.027504	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	4.3	5229.942115	5150 – 5250	PASS
5230	20	3.2	5229.909968	5150 – 5250	PASS
5230	50	3.7	5230.079754	5150 – 5250	PASS
5230	40	3.7	5230.049069	5150 – 5250	PASS
5230	30	3.7	5230.053682	5150 – 5250	PASS
5230	20	3.7	5229.996703	5150 – 5250	PASS
5230	10	3.7	5230.037926	5150 – 5250	PASS
5230	0	3.7	5230.058278	5150 – 5250	PASS
5230	-10	3.7	5230.070241	5150 – 5250	PASS
5230	-20	3.7	5229.960882	5150 – 5250	PASS
5230	-30	3.7	5229.926624	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	4.3	5210.091640	5150 – 5250	PASS
5210	20	3.2	5210.043473	5150 – 5250	PASS
5210	50	3.7	5210.032886	5150 – 5250	PASS
5210	40	3.7	5210.027515	5150 – 5250	PASS
5210	30	3.7	5210.042971	5150 – 5250	PASS
5210	20	3.7	5209.971419	5150 – 5250	PASS
5210	10	3.7	5210.047780	5150 – 5250	PASS
5210	0	3.7	5209.997254	5150 – 5250	PASS
5210	-10	3.7	5209.970826	5150 – 5250	PASS
5210	-20	3.7	5209.927968	5150 – 5250	PASS
5210	-30	3.7	5210.061009	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5260	20	4.3	5260.010942	5250 – 5350	PASS
5260	20	3.2	5260.010468	5250 – 5350	PASS
5260	50	3.7	5260.010361	5250 – 5350	PASS
5260	40	3.7	5260.010263	5250 – 5350	PASS
5260	30	3.7	5260.010527	5250 – 5350	PASS
5260	20	3.7	5260.010441	5250 – 5350	PASS
5260	10	3.7	5260.010977	5250 – 5350	PASS
5260	0	3.7	5260.010959	5250 – 5350	PASS
5260	-10	3.7	5260.010892	5250 – 5350	PASS
5260	-20	3.7	5260.010642	5250 – 5350	PASS
5260	-30	3.7	5260.010771	5250 – 5350	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5280	20	4.3	5280.010866	5250 – 5350	PASS
5280	20	3.2	5280.01052	5250 – 5350	PASS
5280	50	3.7	5280.010435	5250 – 5350	PASS
5280	40	3.7	5280.010134	5250 – 5350	PASS
5280	30	3.7	5280.01022	5250 – 5350	PASS
5280	20	3.7	5280.010976	5250 – 5350	PASS
5280	10	3.7	5280.010032	5250 – 5350	PASS
5280	0	3.7	5280.010357	5250 – 5350	PASS
5280	-10	3.7	5280.010304	5250 – 5350	PASS
5280	-20	3.7	5280.010002	5250 – 5350	PASS
5280	-30	3.7	5280.010739	5250 – 5350	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5320	20	4.3	5320.010747	5250 – 5350	PASS
5320	20	3.2	5320.010959	5250 – 5350	PASS
5320	50	3.7	5320.010685	5250 – 5350	PASS
5320	40	3.7	5320.010543	5250 – 5350	PASS
5320	30	3.7	5320.010621	5250 – 5350	PASS
5320	20	3.7	5320.010526	5250 – 5350	PASS
5320	10	3.7	5320.010761	5250 – 5350	PASS
5320	0	3.7	5320.010891	5250 – 5350	PASS
5320	-10	3.7	5320.010793	5250 – 5350	PASS
5320	-20	3.7	5320.010343	5250 – 5350	PASS
5320	-30	3.7	5320.010904	5250 – 5350	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5270	20	4.3	5270.010931	5250 – 5350	PASS
5270	20	3.2	5270.010011	5250 – 5350	PASS
5270	50	3.7	5270.010995	5250 – 5350	PASS
5270	40	3.7	5270.010607	5250 – 5350	PASS
5270	30	3.7	5270.010397	5250 – 5350	PASS
5270	20	3.7	5270.010191	5250 – 5350	PASS
5270	10	3.7	5270.010101	5250 – 5350	PASS
5270	0	3.7	5270.010975	5250 – 5350	PASS
5270	-10	3.7	5270.010225	5250 – 5350	PASS
5270	-20	3.7	5270.010809	5250 – 5350	PASS
5270	-30	3.7	5270.010979	5250 – 5350	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5310	20	4.3	5310.010227	5250 – 5350	PASS
5310	20	3.2	5310.010747	5250 – 5350	PASS
5310	50	3.7	5310.010544	5250 – 5350	PASS
5310	40	3.7	5310.010503	5250 – 5350	PASS
5310	30	3.7	5310.010175	5250 – 5350	PASS
5310	20	3.7	5310.01044	5250 – 5350	PASS
5310	10	3.7	5310.010132	5250 – 5350	PASS
5310	0	3.7	5310.010523	5250 – 5350	PASS
5310	-10	3.7	5310.010212	5250 – 5350	PASS
5310	-20	3.7	5310.01092	5250 – 5350	PASS
5310	-30	3.7	5310.010378	5250 – 5350	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5290	20	4.3	5290.010594	5250 – 5350	PASS
5290	20	3.2	5290.01087	5250 – 5350	PASS
5290	50	3.7	5290.010931	5250 – 5350	PASS
5290	40	3.7	5290.010206	5250 – 5350	PASS
5290	30	3.7	5290.010345	5250 – 5350	PASS
5290	20	3.7	5290.010541	5250 – 5350	PASS
5290	10	3.7	5290.010015	5250 – 5350	PASS
5290	0	3.7	5290.010734	5250 – 5350	PASS
5290	-10	3.7	5290.010139	5250 – 5350	PASS
5290	-20	3.7	5290.010681	5250 – 5350	PASS
5290	-30	3.7	5290.010930	5250 – 5350	PASS

Appendix F: Conducted Spurious Emission

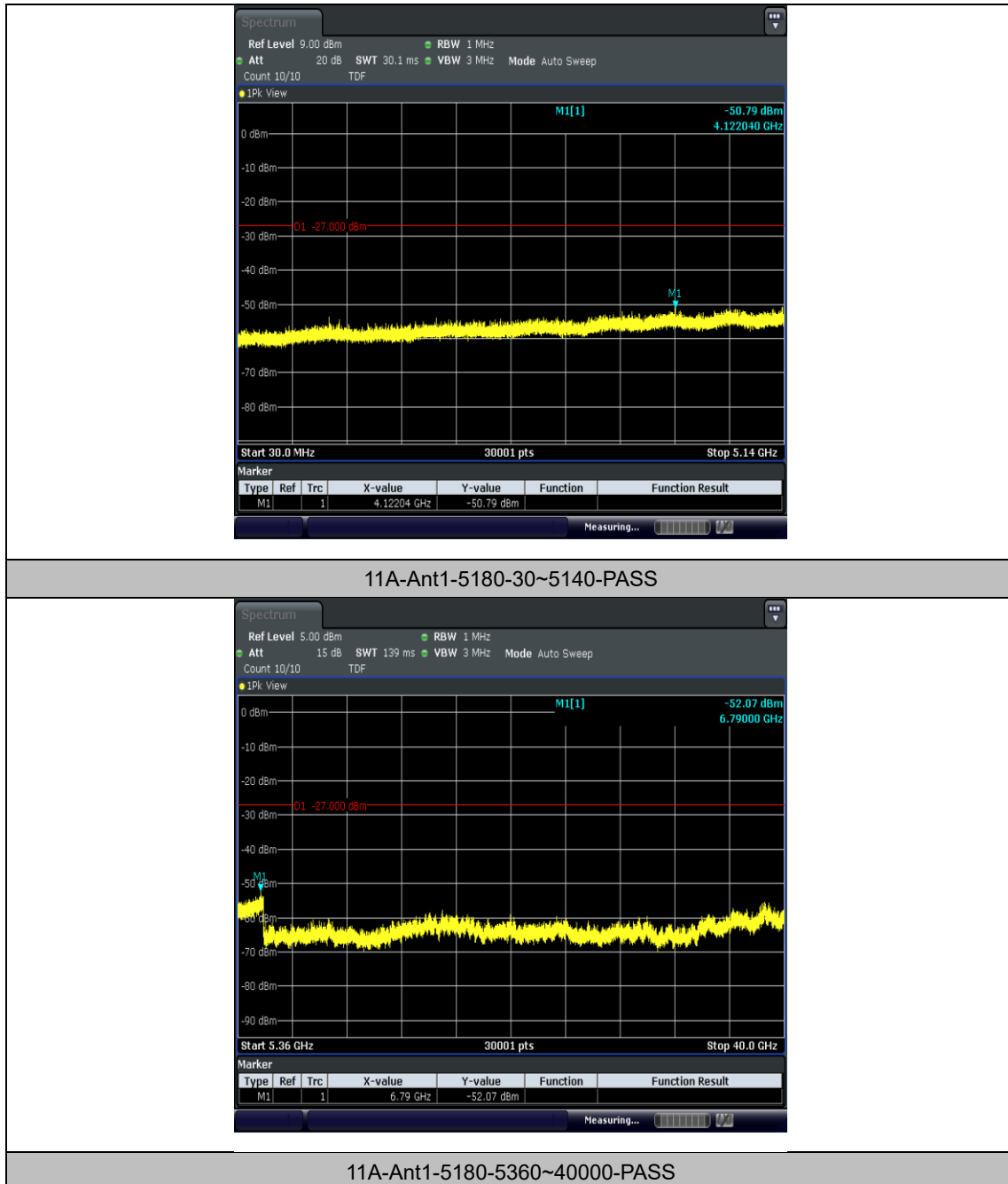
Test Result

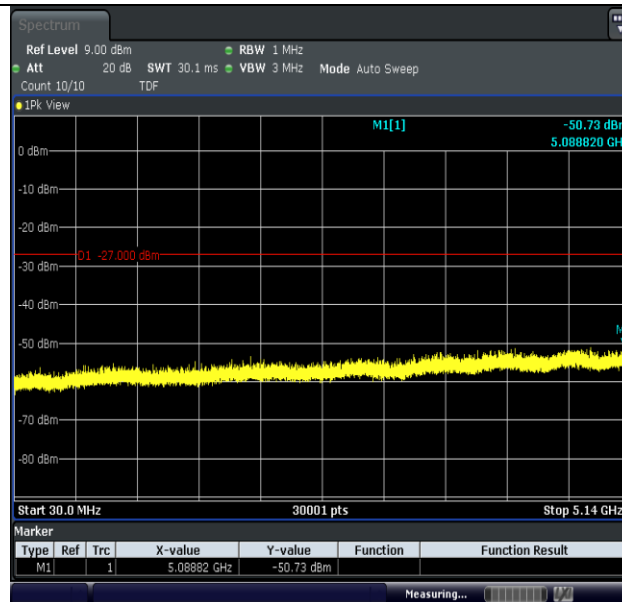
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	4122.04	-50.79	≤-27	PASS
11A	Ant1	5180	5360~40000	6790	-52.07	≤-27	PASS
11A	Ant1	5200	30~5140	5088.82	-50.73	≤-27	PASS
11A	Ant1	5200	5360~40000	6962	-52.86	≤-27	PASS
11A	Ant1	5240	30~5140	4688.21	-51.03	≤-27	PASS
11A	Ant1	5240	5360~40000	6979.4	-53.05	≤-27	PASS
11A	Ant1	5260	30~5140	4735.9	-51.21	≤-27	PASS
11A	Ant1	5260	5360~40000	6995.5	-52.46	≤-27	PASS
11A	Ant1	5280	30~5140	5013.36	-50.55	≤-27	PASS
11A	Ant1	5280	5360~40000	6806.2	-53.3	≤-27	PASS
11A	Ant1	5320	30~5140	5139.91	-51.1	≤-27	PASS
11A	Ant1	5320	5360~40000	6950.5	-52.65	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5074.85	-50.75	≤-27	PASS
11N20SISO	Ant1	5180	5360~40000	6963.2	-52.18	≤-27	PASS
11N20SISO	Ant1	5200	30~5140	4565.74	-51	≤-27	PASS
11N20SISO	Ant1	5200	5360~40000	6981.7	-52.34	≤-27	PASS
11N20SISO	Ant1	5240	30~5140	4739.13	-50.35	≤-27	PASS
11N20SISO	Ant1	5240	5360~40000	6825.8	-51.89	≤-27	PASS
11N20SISO	Ant1	5260	30~5140	4718.69	-50.77	≤-27	PASS
11N20SISO	Ant1	5260	5360~40000	6786.5	-52.49	≤-27	PASS
11N20SISO	Ant1	5280	30~5140	4632.68	-50.91	≤-27	PASS
11N20SISO	Ant1	5280	5360~40000	6939	-52.52	≤-27	PASS
11N20SISO	Ant1	5320	30~5140	4730.45	-50.37	≤-27	PASS
11N20SISO	Ant1	5320	5360~40000	6951.7	-53.11	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	4999.05	-50.75	≤-27	PASS
11N40SISO	Ant1	5190	5360~40000	6995.5	-53.4	≤-27	PASS
11N40SISO	Ant1	5230	30~5140	4640.51	-51.44	≤-27	PASS
11N40SISO	Ant1	5230	5360~40000	6993.2	-52.42	≤-27	PASS
11N40SISO	Ant1	5270	30~5140	4609.86	-51.16	≤-27	PASS
11N40SISO	Ant1	5270	5360~40000	6899.7	-53.44	≤-27	PASS
11N40SISO	Ant1	5310	30~5140	4960.22	-50.84	≤-27	PASS
11N40SISO	Ant1	5310	5360~40000	6997.8	-52.51	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	4636.6	-51	≤-27	PASS
11AC20SISO	Ant1	5180	5360~40000	6990.9	-52.5	≤-27	PASS
11AC20SISO	Ant1	5200	30~5140	4541.72	-50.16	≤-27	PASS
11AC20SISO	Ant1	5200	5360~40000	6487.5	-53.15	≤-27	PASS
11AC20SISO	Ant1	5240	30~5140	5088.48	-51.19	≤-27	PASS
11AC20SISO	Ant1	5240	5360~40000	6966.7	-50.92	≤-27	PASS
11AC20SISO	Ant1	5260	30~5140	4636.26	-51.33	≤-27	PASS
11AC20SISO	Ant1	5260	5360~40000	6766.9	-52.89	≤-27	PASS

11AC20SISO	Ant1	5280	30~5140	4773.2	-51.07	≤-27	PASS
11AC20SISO	Ant1	5280	5360~40000	6801.6	-53.4	≤-27	PASS
11AC20SISO	Ant1	5320	30~5140	4490.11	-50.94	≤-27	PASS
11AC20SISO	Ant1	5320	5360~40000	6735.7	-53.17	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	4619.22	-50.79	≤-27	PASS
11AC40SISO	Ant1	5190	5360~40000	6613.3	-52.97	≤-27	PASS
11AC40SISO	Ant1	5230	30~5140	4619.9	-50.98	≤-27	PASS
11AC40SISO	Ant1	5230	5360~40000	6865.1	-52.57	≤-27	PASS
11AC40SISO	Ant1	5270	30~5140	5100.91	-50.05	≤-27	PASS
11AC40SISO	Ant1	5270	5360~40000	6908.9	-53.15	≤-27	PASS
11AC40SISO	Ant1	5310	30~5140	4116.08	-50.97	≤-27	PASS
11AC40SISO	Ant1	5310	5360~40000	6882.4	-53.14	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	4594.01	-50.66	≤-27	PASS
11AC80SISO	Ant1	5210	5360~40000	6934.3	-52.09	≤-27	PASS
11AC80SISO	Ant1	5290	30~5140	4722.61	-51.07	≤-27	PASS
11AC80SISO	Ant1	5290	5360~40000	6842	-52.53	≤-27	PASS

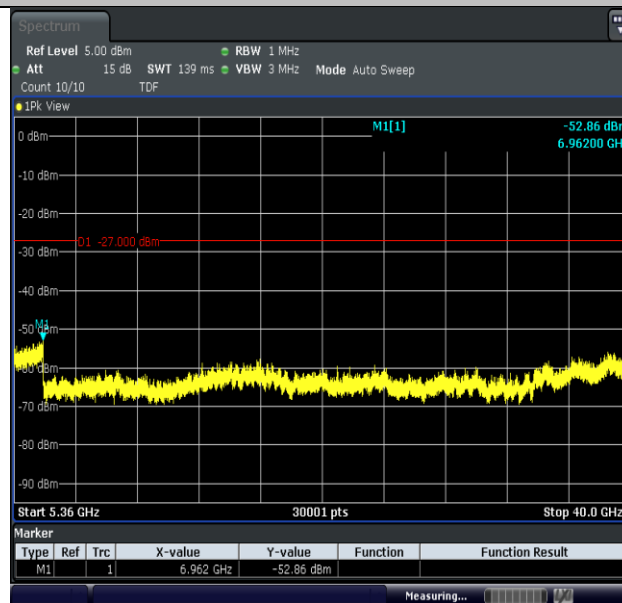
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 40 GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

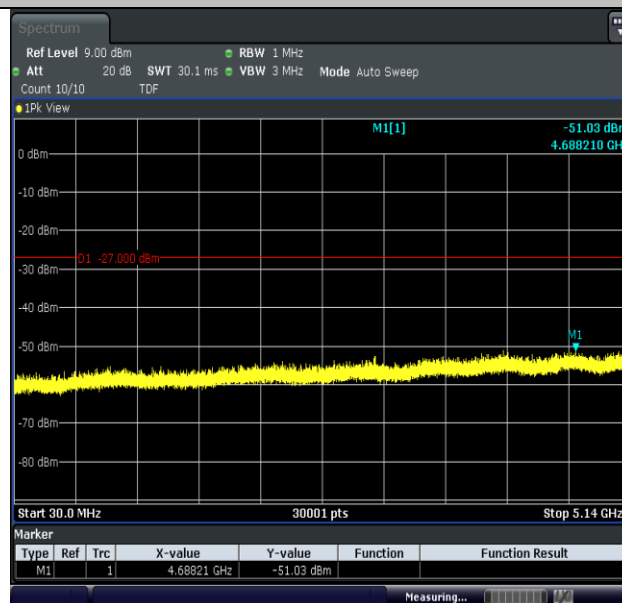




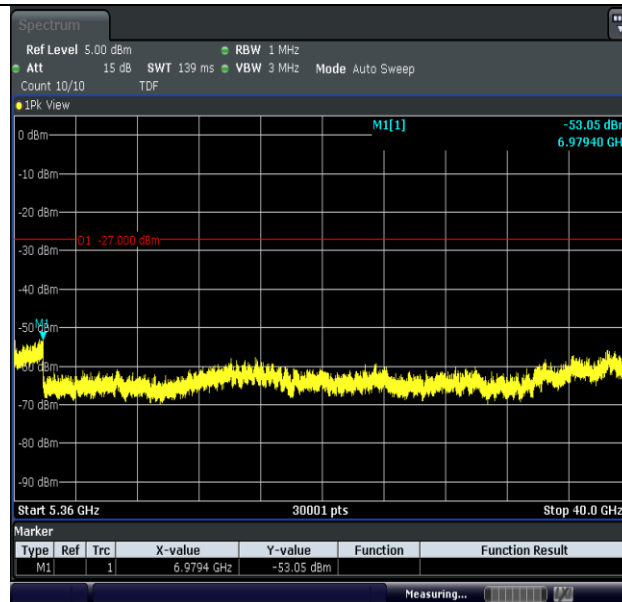
11A-Ant1-5200-30~5140-PASS



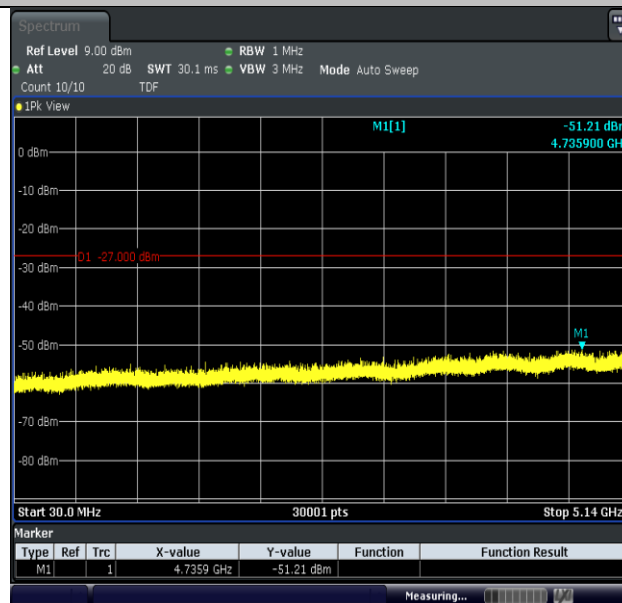
11A-Ant1-5200-5360~40000-PASS



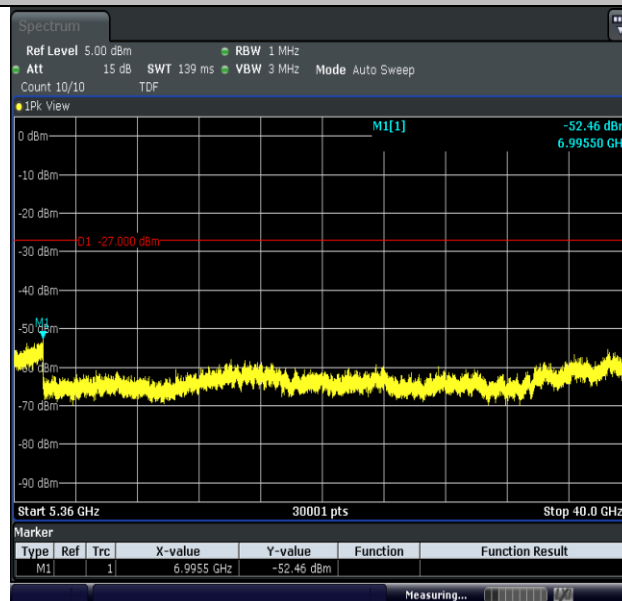
11A-Ant1-5240-30~5140-PASS



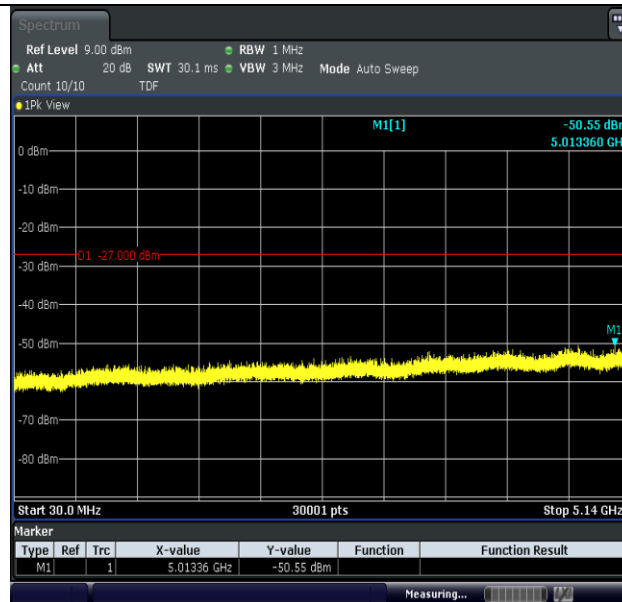
11A-Ant1-5240-5360~40000-PASS



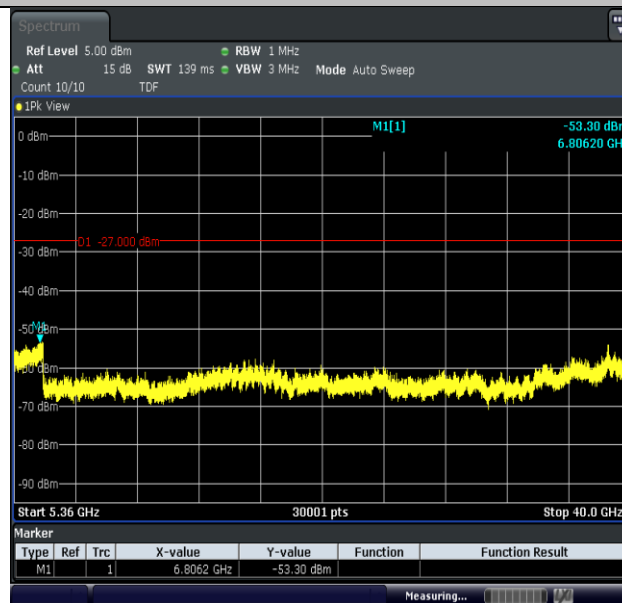
11A-Ant1-5260-30~5140-PASS



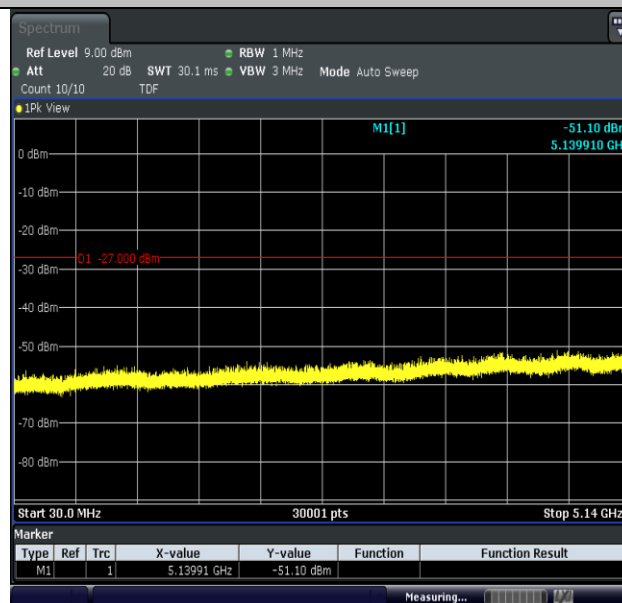
11A-Ant1-5260-5360~40000-PASS



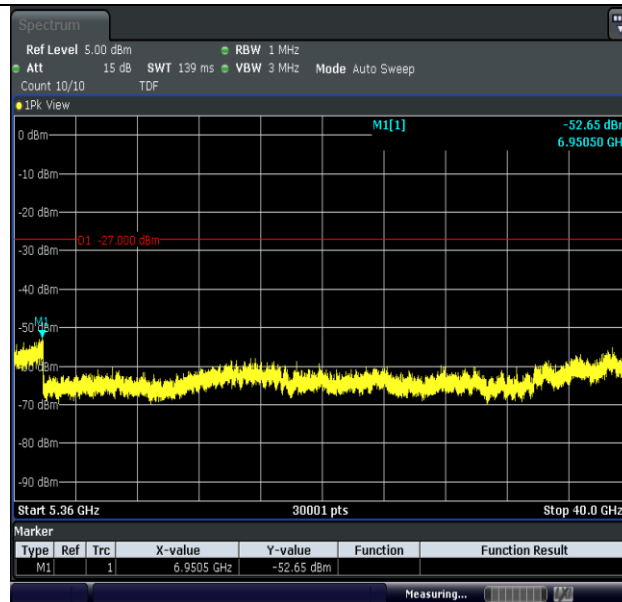
11A-Ant1-5280-30~5140-PASS



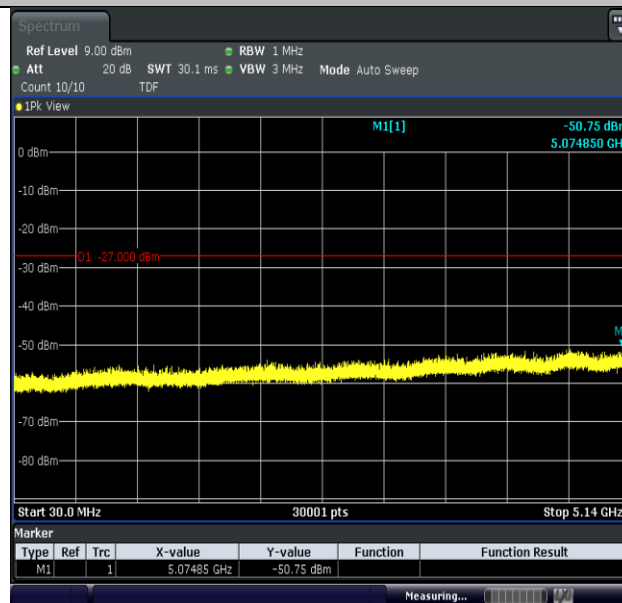
11A-Ant1-5280-5360~40000-PASS



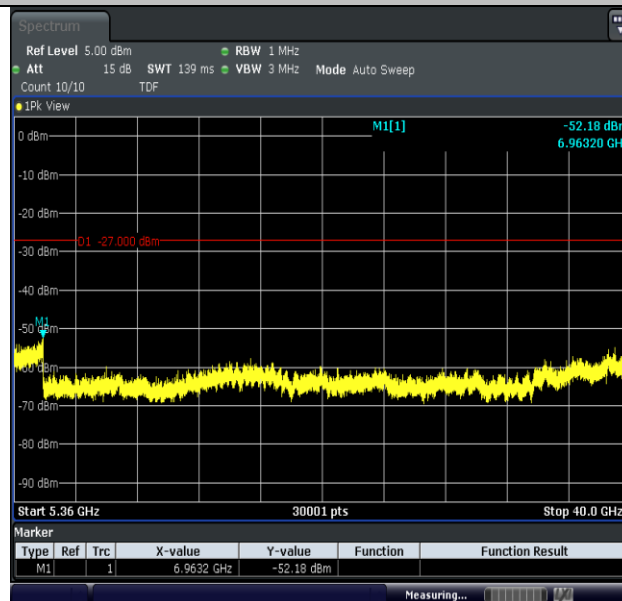
11A-Ant1-5320-30~5140-PASS



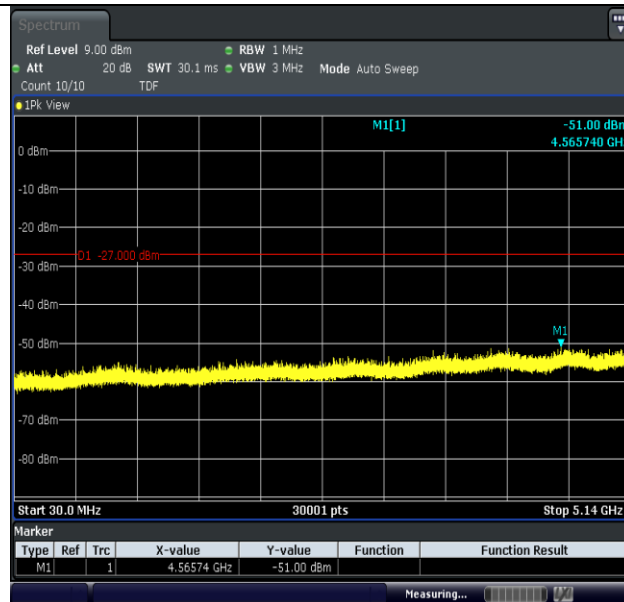
11A-Ant1-5320-5360~40000-PASS



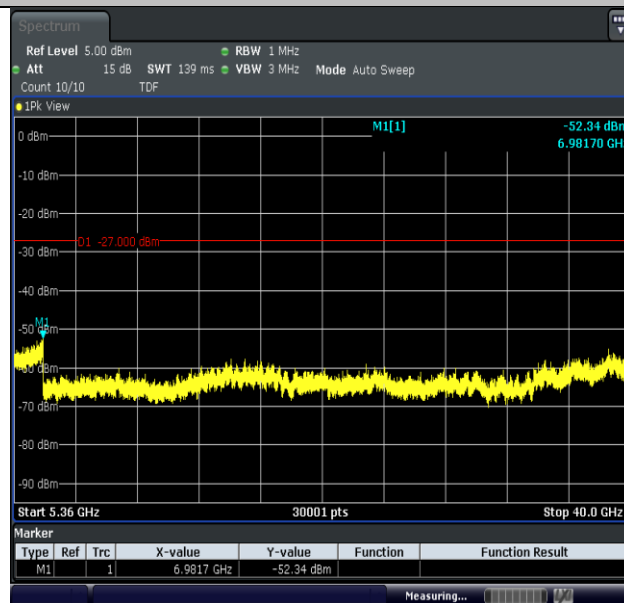
11N20SISO-Ant1-5180-30~5140-PASS



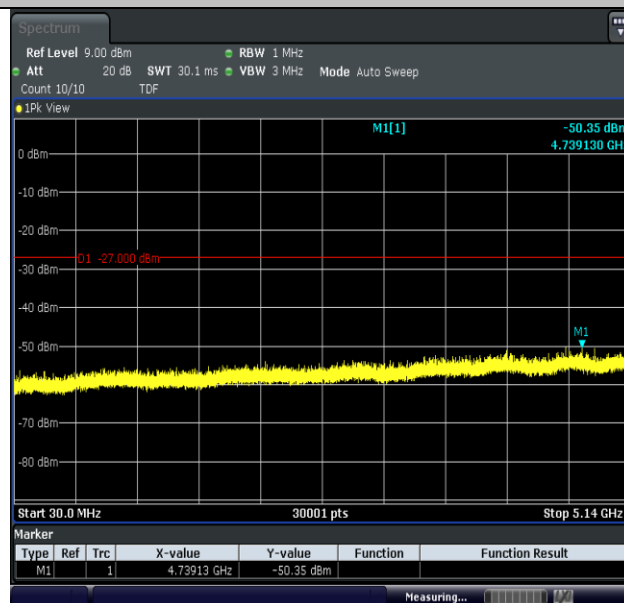
11N20SISO-Ant1-5180-5360~40000-PASS



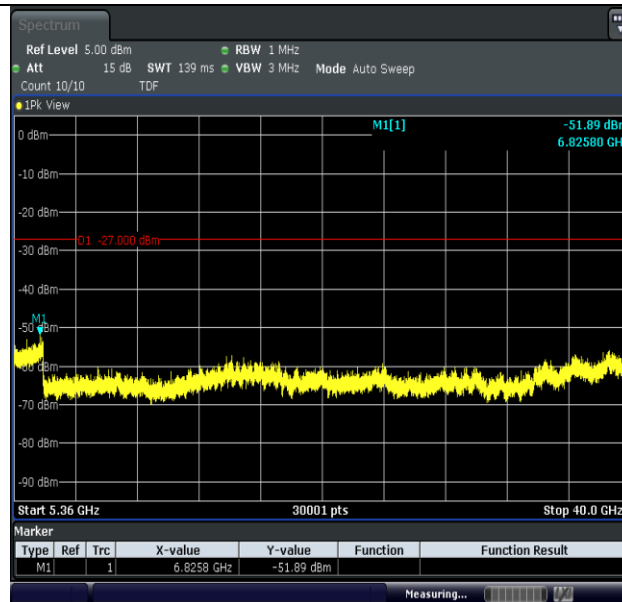
11N20SISO-Ant1-5200-30~5140-PASS



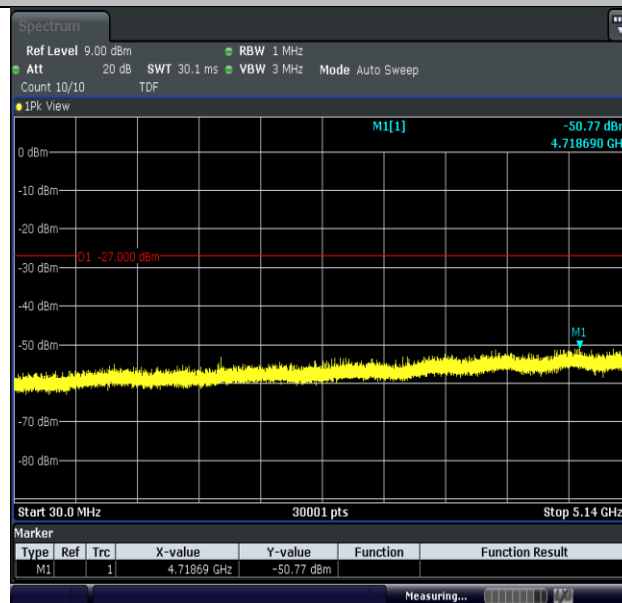
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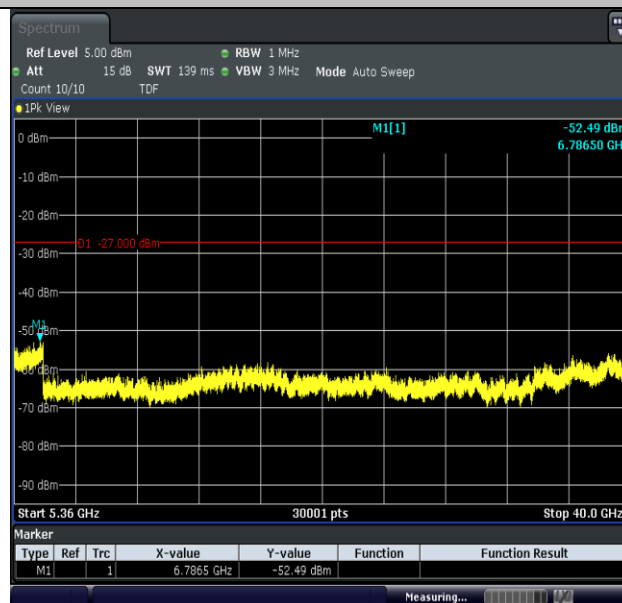
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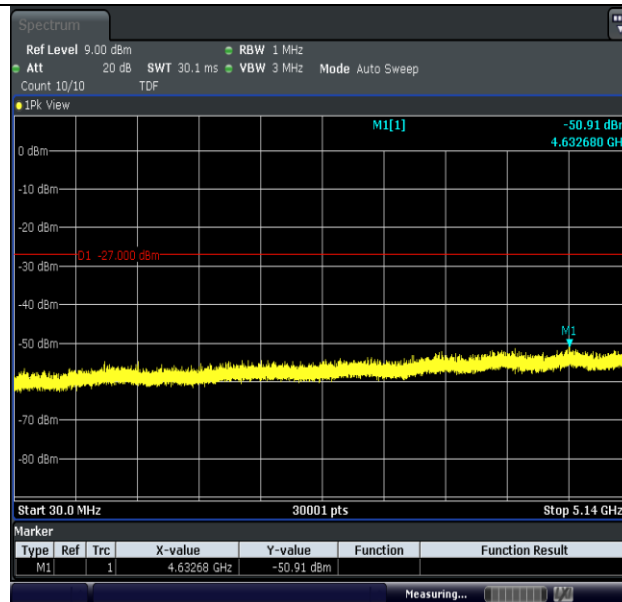
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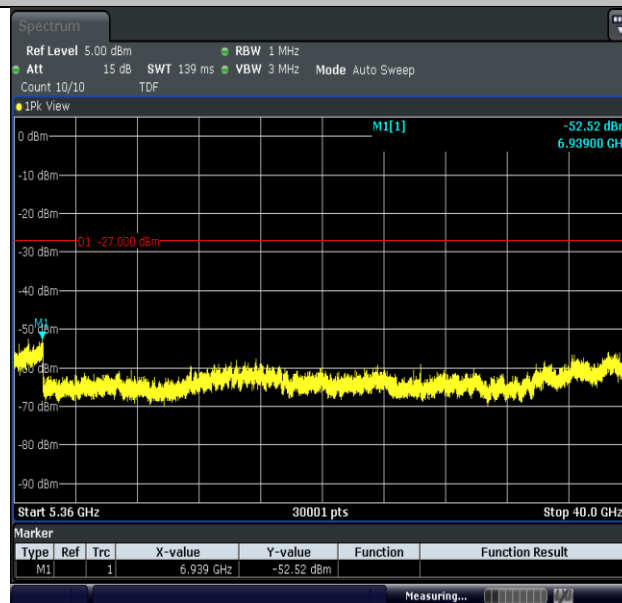
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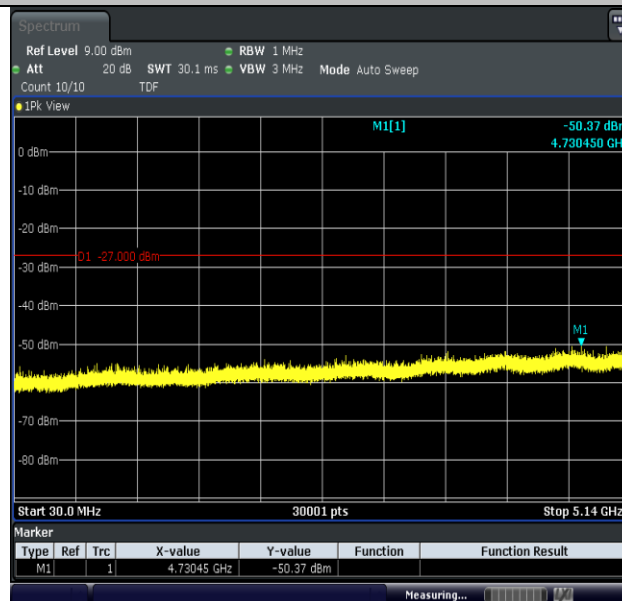
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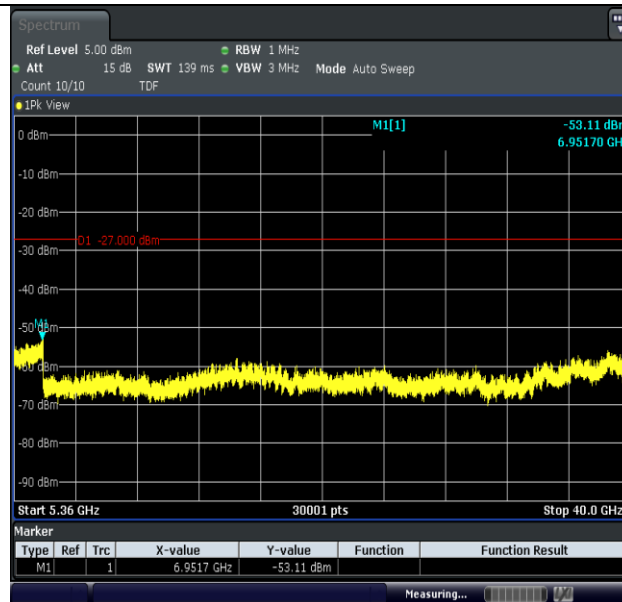
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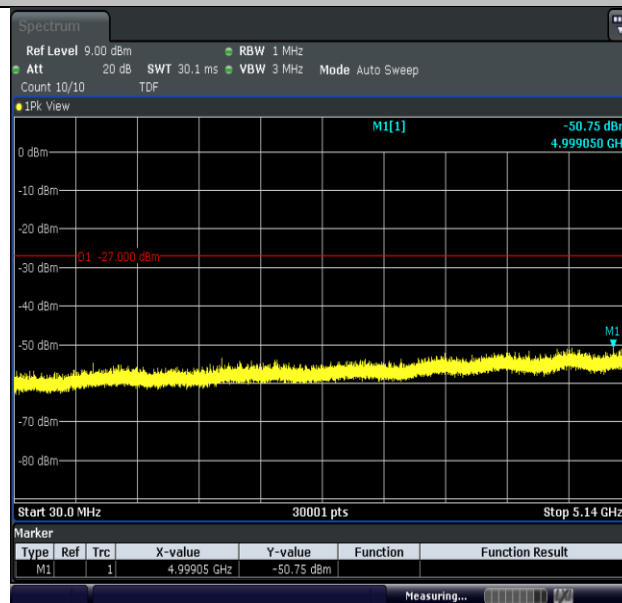
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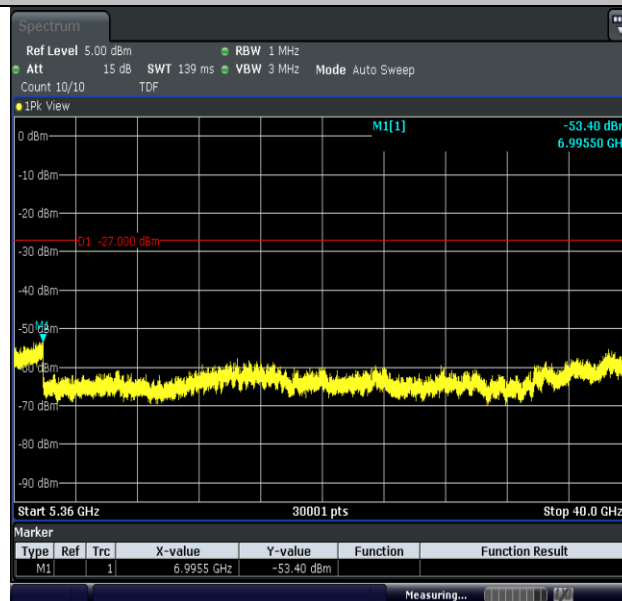
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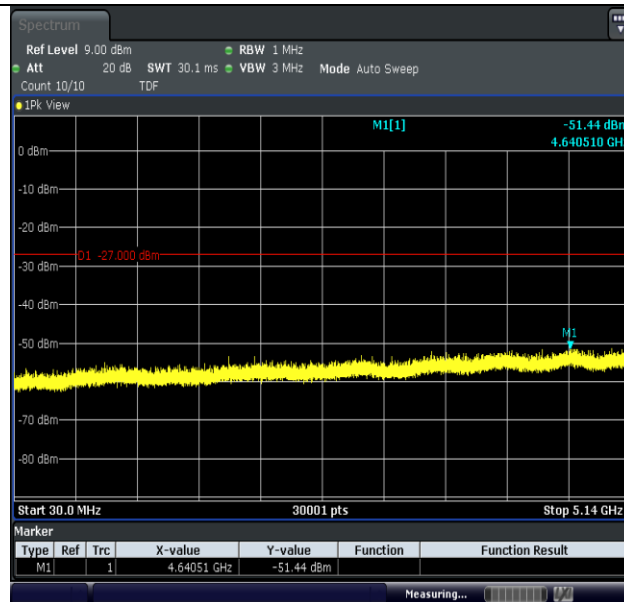
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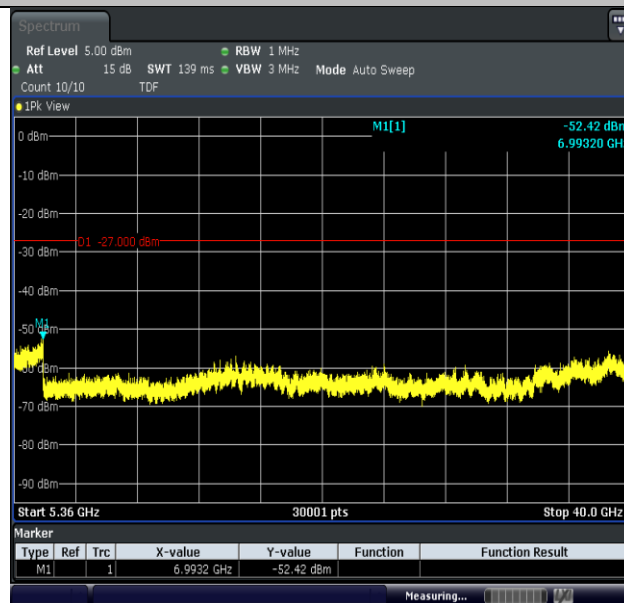
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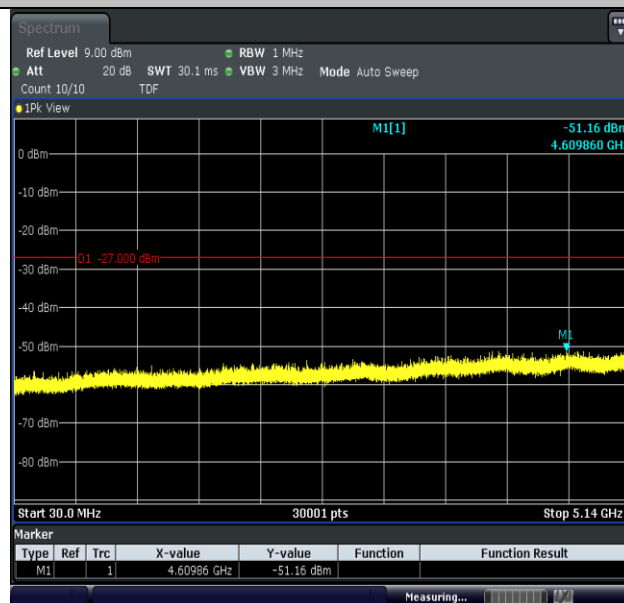
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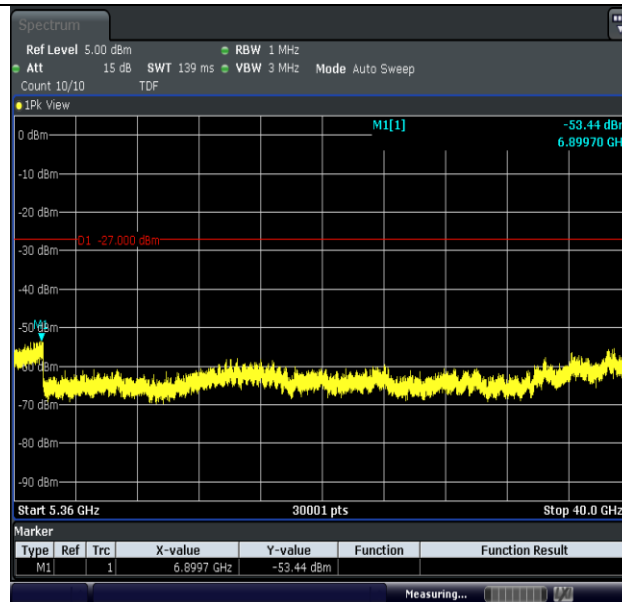
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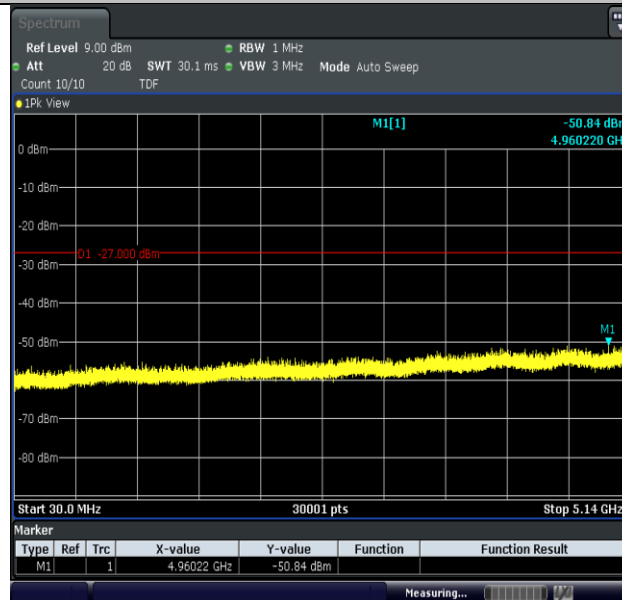
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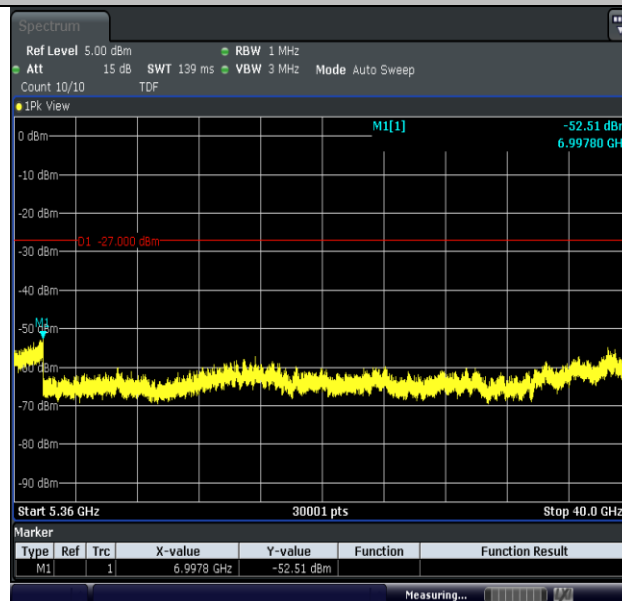
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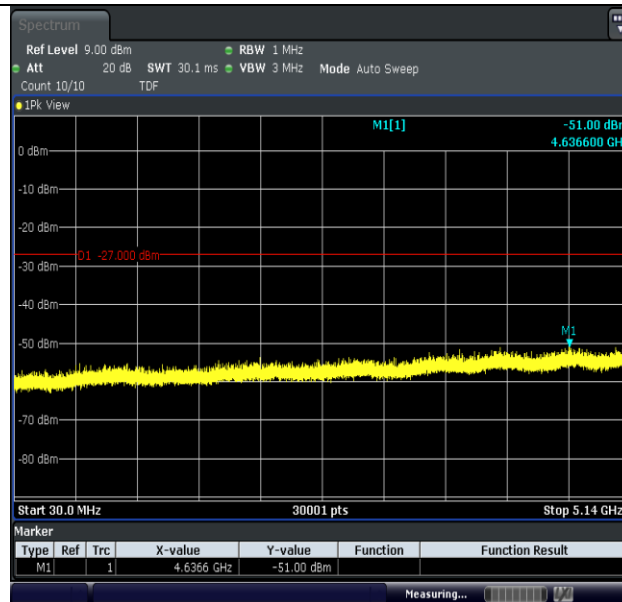
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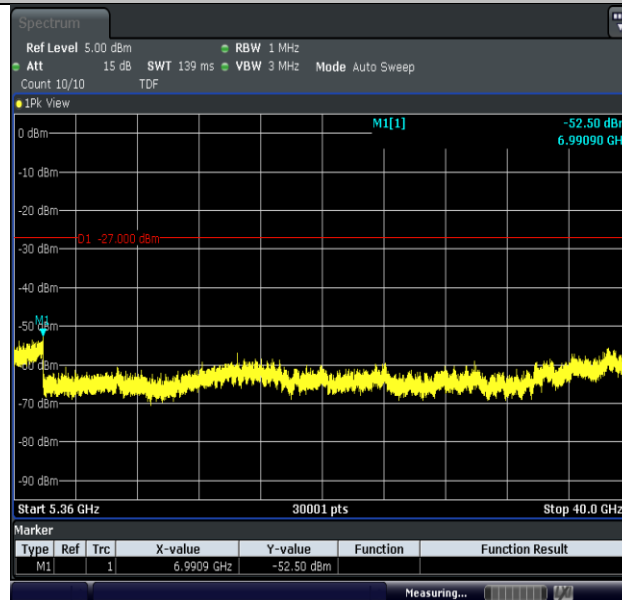
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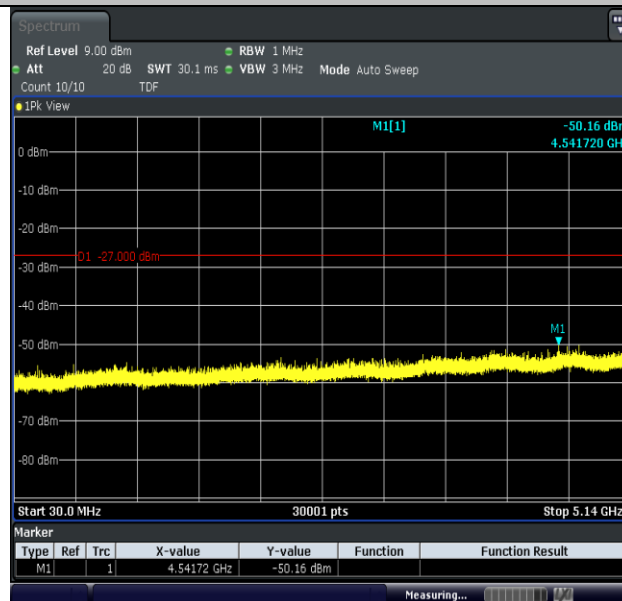
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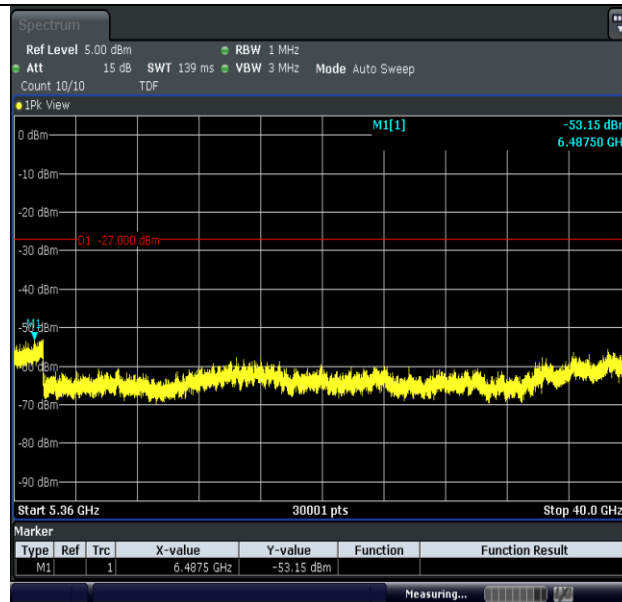
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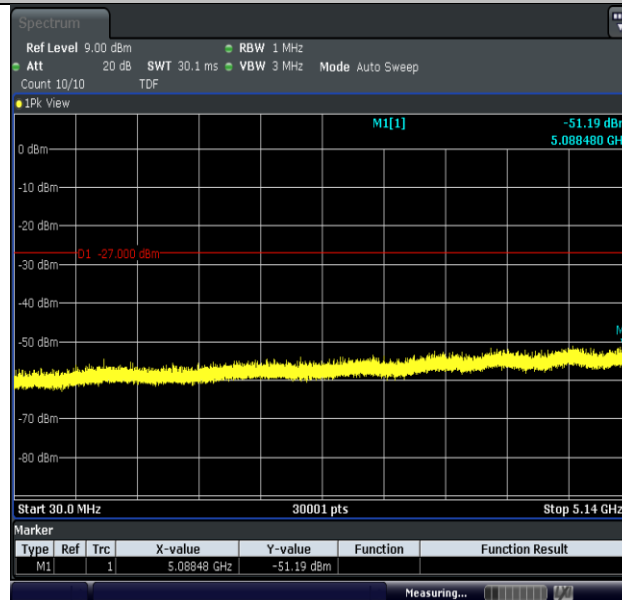
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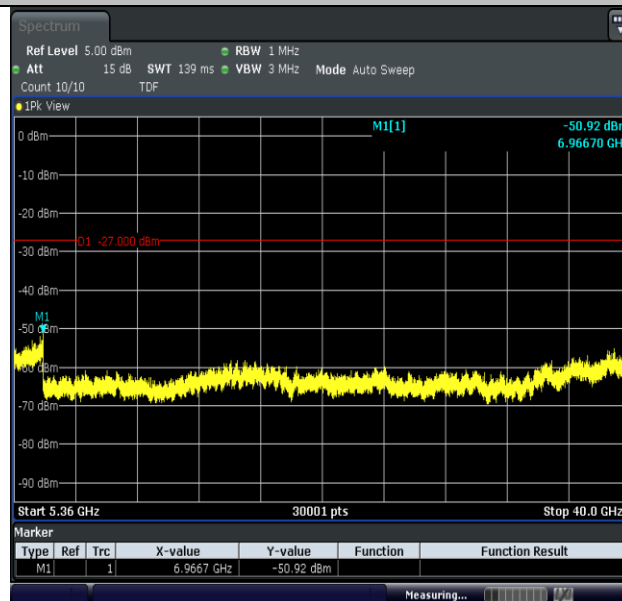
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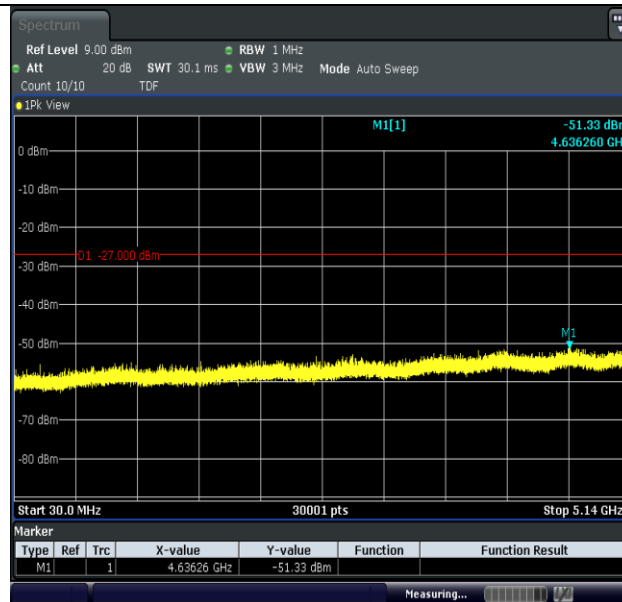
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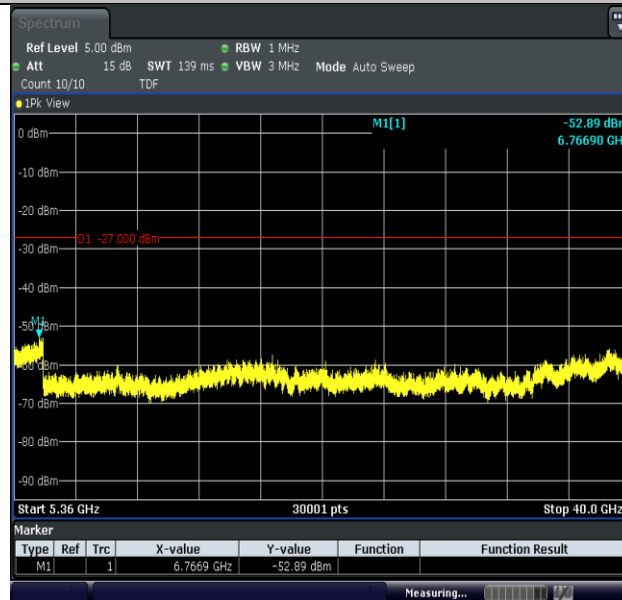
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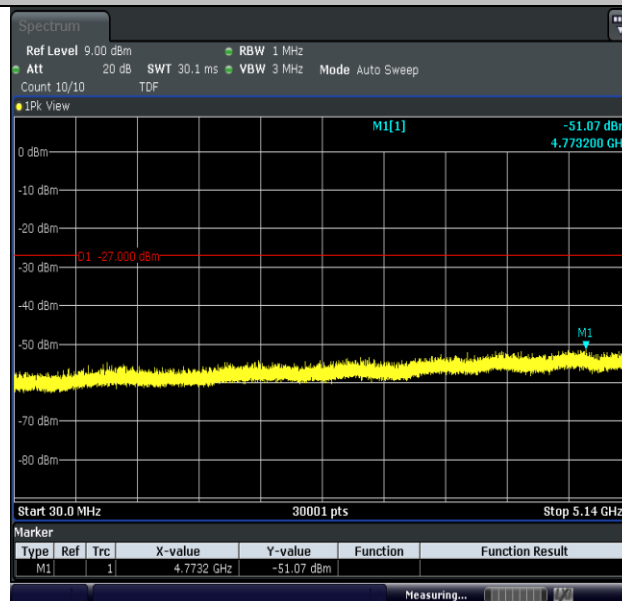
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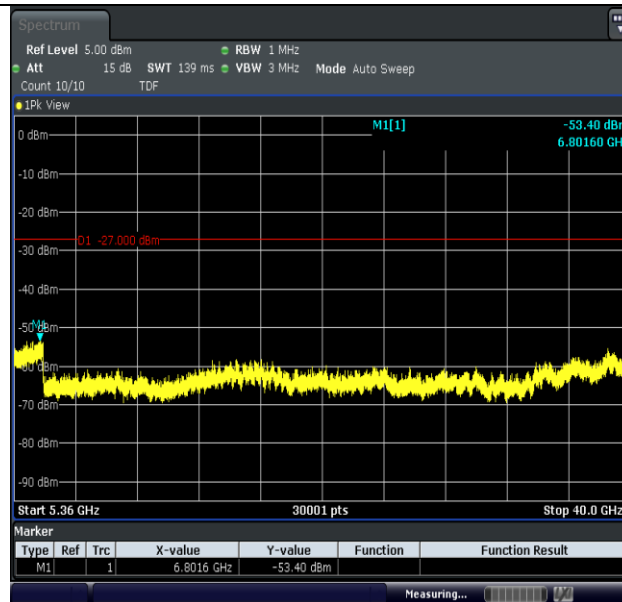
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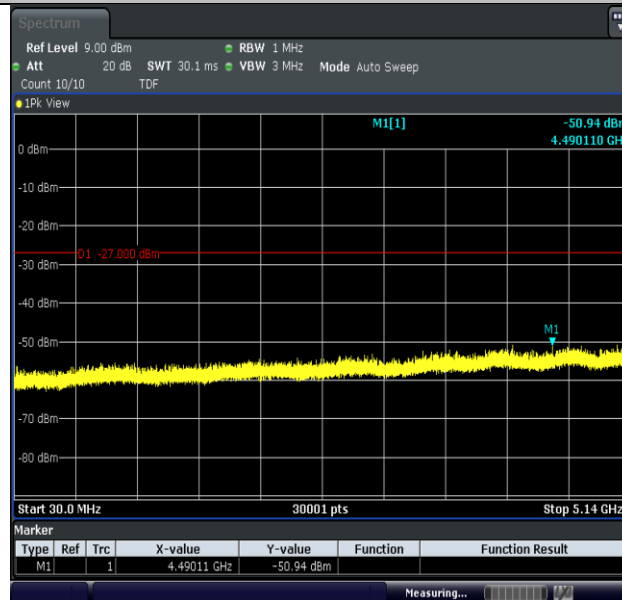
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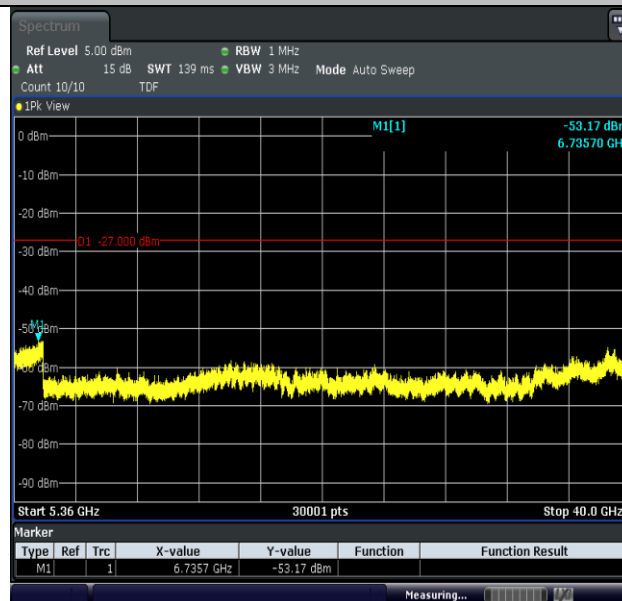
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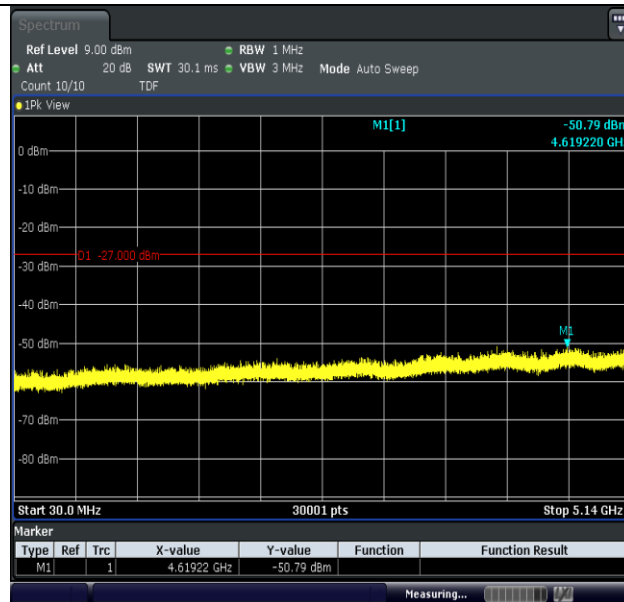
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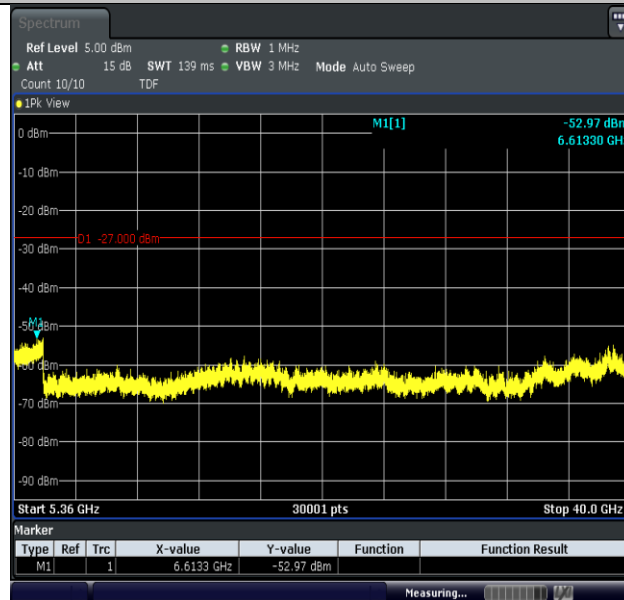
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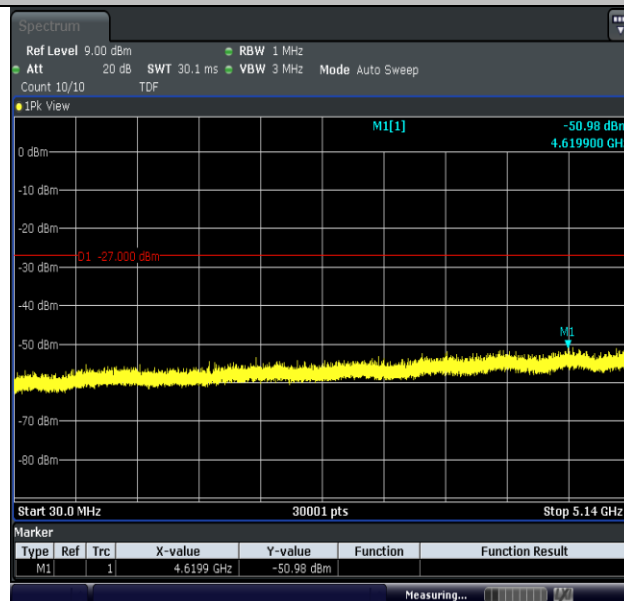
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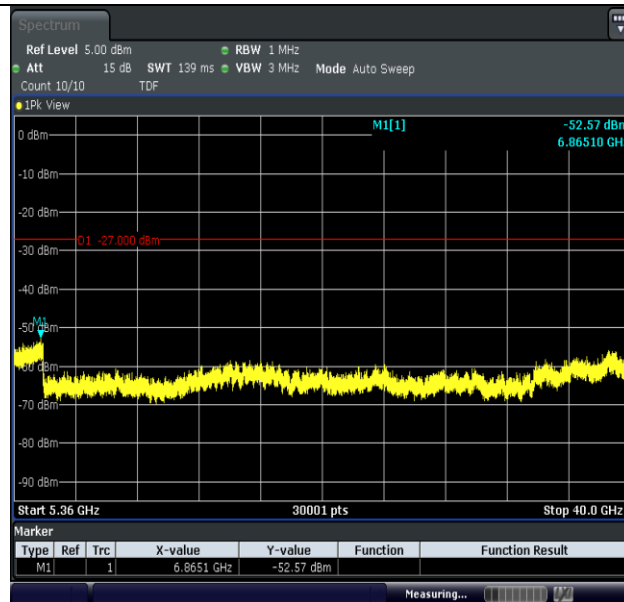
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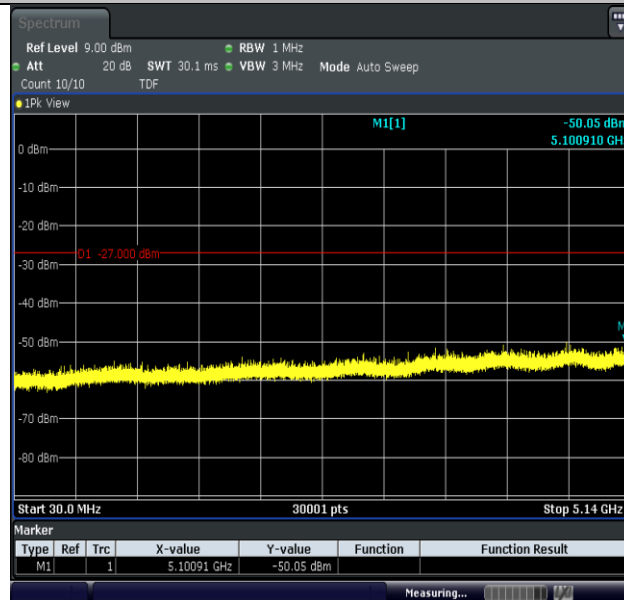
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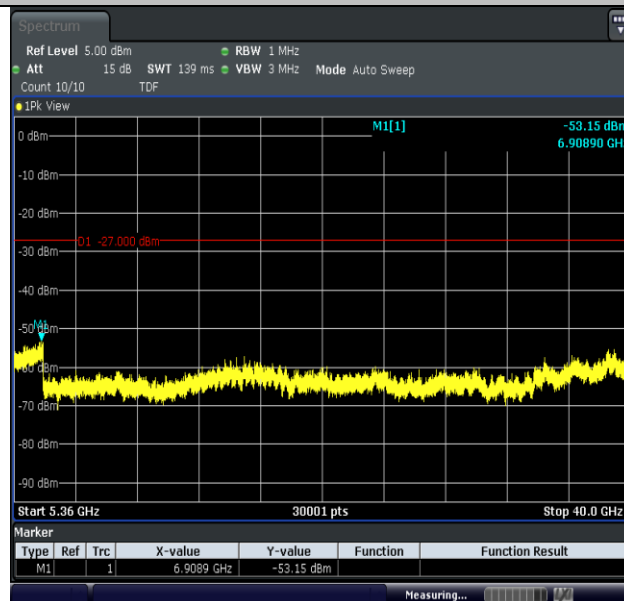
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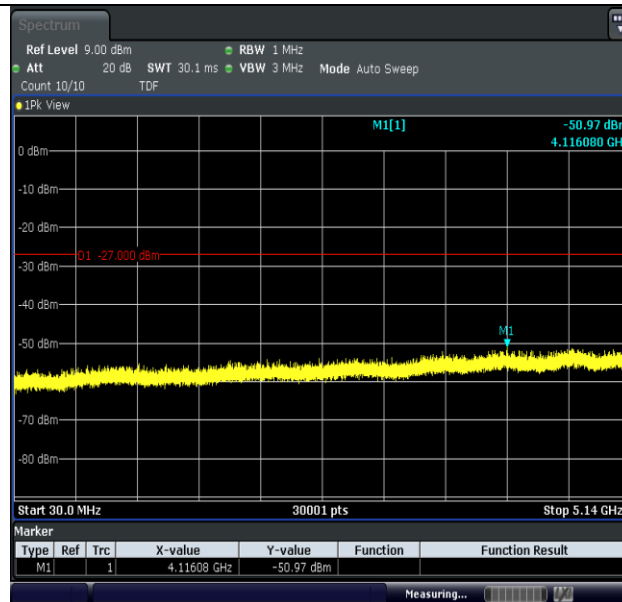
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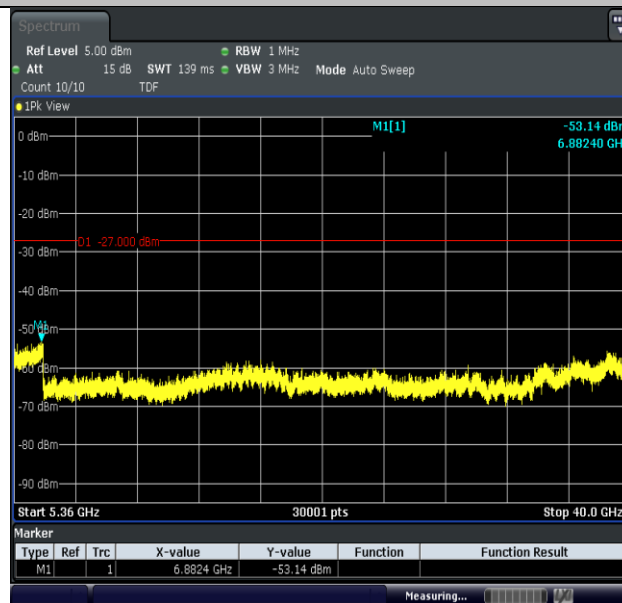
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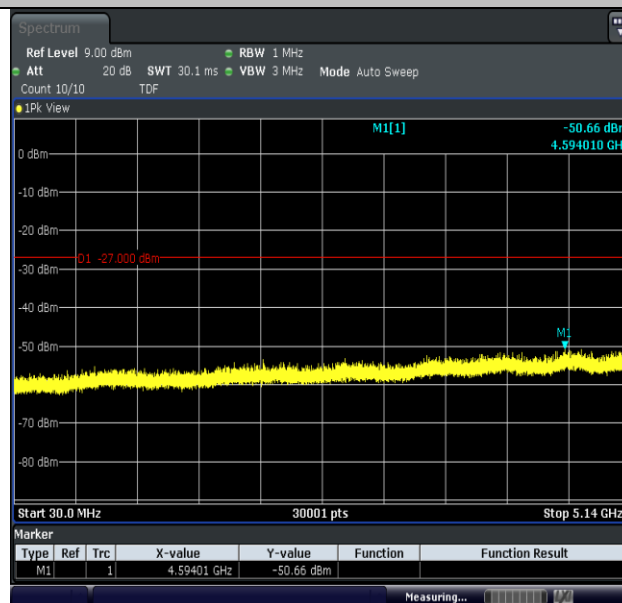
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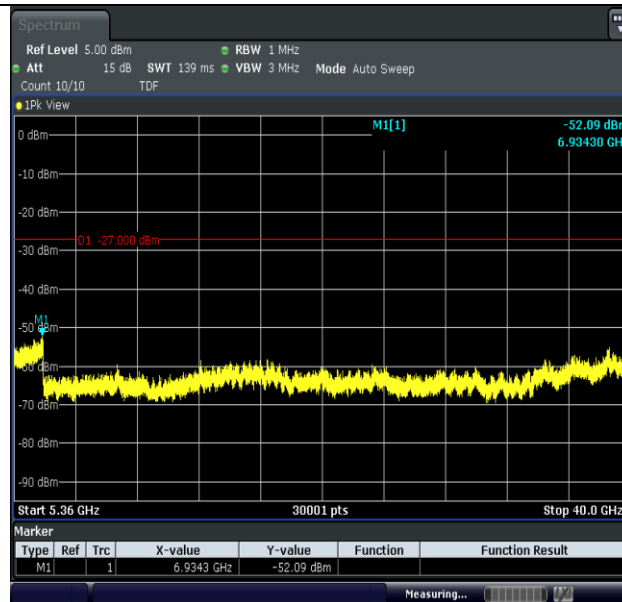
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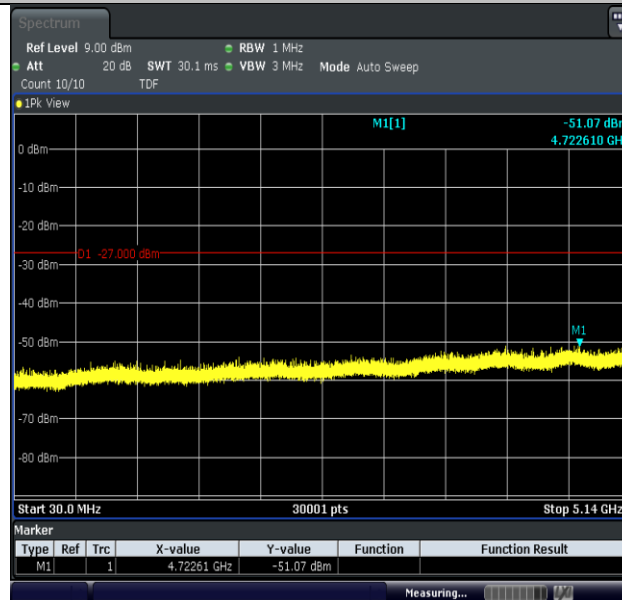
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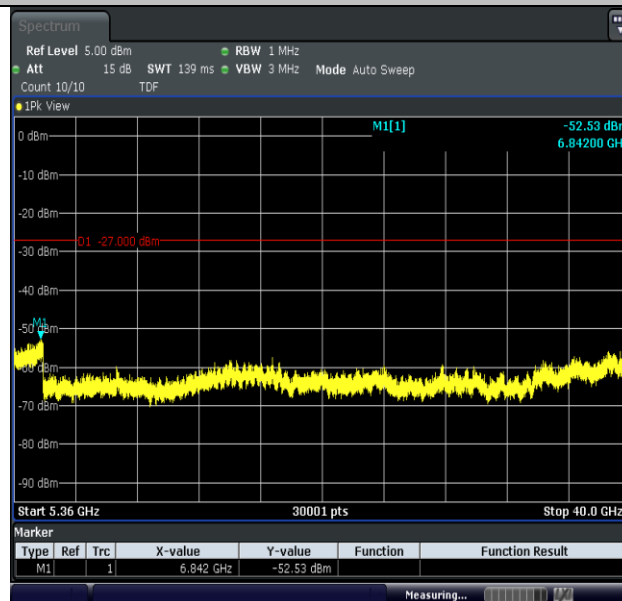
11AC80SISO-Ant1-5210-30~5140-PASS



11AC80SISO-Ant1-5210-5360~40000-PASS



11AC80SISO-Ant1-5290-30~5140-PASS



11AC80SISO-Ant1-5290-5360~40000-PASS

Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc. Factor [%]	1/T [kHz]
11A	Ant1	5180	1.39	1.44	96.53	0.15	0.72
11A	Ant1	5200	1.39	1.44	96.53	0.15	0.72
11A	Ant1	5240	1.39	1.44	96.53	0.15	0.72
11A	Ant1	5260	1.39	1.43	97.20	0.12	0.72
11A	Ant1	5280	1.40	1.44	97.22	0.12	0.71
11A	Ant1	5320	1.39	1.44	96.53	0.15	0.72
11N20SISO	Ant1	5180	1.31	1.36	96.32	0.16	0.76
11N20SISO	Ant1	5200	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5240	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5260	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5280	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5320	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5190	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5230	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5270	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5310	0.65	0.70	92.86	0.32	1.54
11AC20SISO	Ant1	5180	1.31	1.35	97.04	0.13	0.76
11AC20SISO	Ant1	5200	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5240	1.31	1.35	97.04	0.13	0.76
11AC20SISO	Ant1	5260	1.31	1.35	97.04	0.13	0.76
11AC20SISO	Ant1	5280	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5320	1.31	1.36	96.32	0.16	0.76
11AC40SISO	Ant1	5190	0.65	0.70	92.86	0.32	1.54
11AC40SISO	Ant1	5230	0.66	0.70	94.29	0.26	1.52
11AC40SISO	Ant1	5270	0.65	0.70	92.86	0.32	1.54
11AC40SISO	Ant1	5310	0.65	0.70	92.86	0.32	1.54
11AC80SISO	Ant1	5210	0.32	0.37	86.49	0.63	3.13
11AC80SISO	Ant1	5290	0.32	0.37	86.49	0.63	3.13

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

