

RF Test Data for 5G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	ViewClix Smart Frame
Test Model:	VCF101R
Sample ID:	RW-C-202209-0142-1-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 12V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202209-0142-13	

Contents

1. Emission Bandwidth.....	3
1.1. Test Result.....	3
2.1. Test Graphs.....	5
2. Occupied channel bandwidth.....	20
2.1. Test Result.....	20
2.2. Test Graphs.....	22
3. Min emission bandwidth.....	42
3.1. Test Result.....	42
3.2. Test Graphs.....	43
4. Maximum conducted output power.....	48
4.1. Test Result.....	48
5. Maximum power spectral density.....	50
5.1. Test Result.....	50
5.2. Test Graphs.....	52
6. Emissions in Restricted Bands.....	72
6.1. Test Result.....	72
6.2. Test Graphs.....	77
7. Conducted Spurious Emission.....	97
7.1. Test Result.....	97
7.2. Test Graphs.....	100
8. Frequency Stability.....	140
8.1. Test Result.....	140
9. Duty Cycle.....	148
9.1. Test Result.....	148
9.2. Test Graphs.....	150

1. Emission Bandwidth

1.1. Test Result

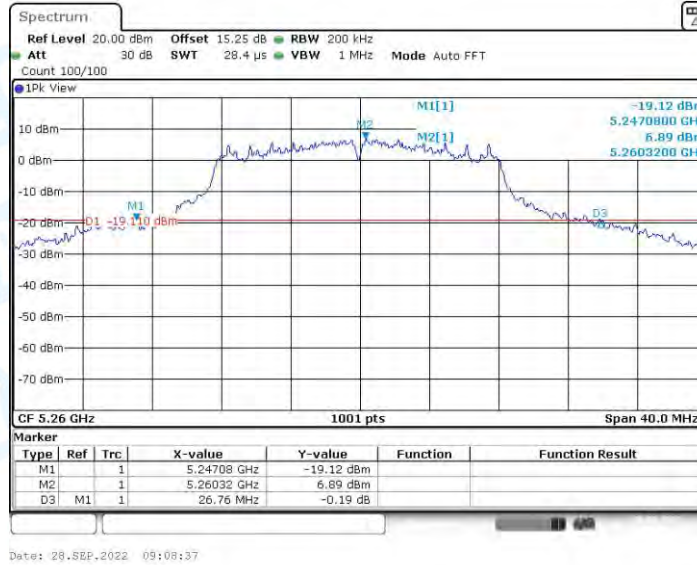
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	29.04	5166.96	5196.00	---	---
		5200	26.44	5187.64	5214.08	---	---
		5240	27.24	5227.72	5254.96	---	---
		5260	26.76	5247.08	5273.84	---	---
		5280	27.60	5266.92	5294.52	---	---
		5320	36.04	5302.40	5338.44	---	---
		5500	38.36	5480.72	5519.08	---	---
		5580	38.80	5560.04	5598.84	---	---
		5700	37.36	5681.68	5719.04	---	---
11N20SISO	Ant1	5180	40.00	5160.00	5200.00	---	---
		5200	29.36	5186.00	5215.36	---	---
		5240	31.48	5225.68	5257.16	---	---
		5260	30.20	5244.88	5275.08	---	---
		5280	31.40	5264.52	5295.92	---	---
		5320	38.96	5300.44	5339.40	---	---
		5500	38.76	5480.84	5519.60	---	---
		5580	22.52	5568.36	5590.88	---	---
		5700	22.60	5688.92	5711.52	---	---
11N40SISO	Ant1	5190	77.92	5151.92	5229.84	---	---
		5230	78.88	5190.00	5268.88	---	---
		5270	80.00	5230.00	5310.00	---	---
		5310	79.84	5270.16	5350.00	---	---
		5510	79.44	5470.00	5549.44	---	---
		5550	80.00	5510.00	5590.00	---	---
		5670	79.04	5630.96	5710.00	---	---
11AC20SISO	Ant1	5180	39.20	5160.76	5199.96	---	---
		5200	35.32	5182.76	5218.08	---	---
		5240	38.52	5220.80	5259.32	---	---
		5260	39.60	5240.12	5279.72	---	---
		5280	39.60	5260.12	5299.72	---	---
		5320	39.52	5300.04	5339.56	---	---
		5500	39.92	5480.08	5520.00	---	---
		5580	35.64	5561.80	5597.44	---	---
		5700	37.80	5682.00	5719.80	---	---
11AC40SISO	Ant1	5190	80.00	5150.00	5230.00	---	---
		5230	78.08	5191.92	5270.00	---	---
		5270	78.72	5230.40	5309.12	---	---
		5310	78.56	5270.00	5348.56	---	---
		5510	80.00	5470.00	5550.00	---	---
		5550	80.00	5510.00	5590.00	---	---
		5670	79.76	5630.24	5710.00	---	---

11AC80SISO	Ant1	5210	115.84	5156.72	5272.56	---	---
		5290	151.84	5213.20	5365.04	---	---
		5530	160.00	5450.00	5610.00	---	---
		5610	160.00	5530.00	5690.00	---	---

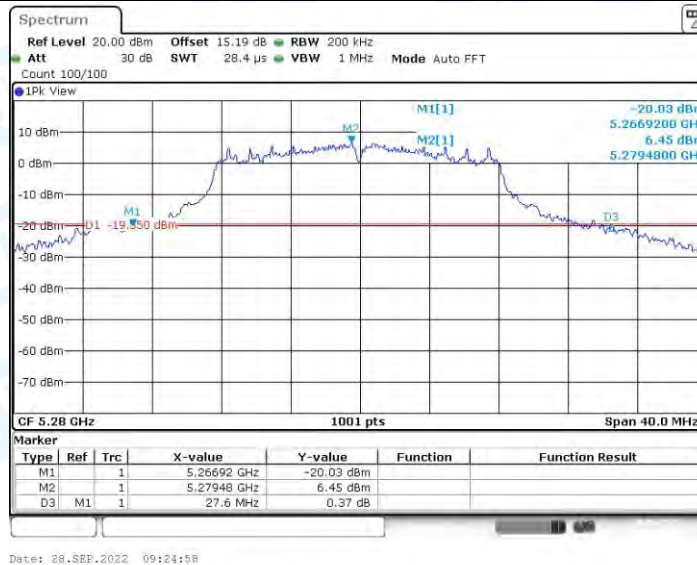
2.1. Test Graphs



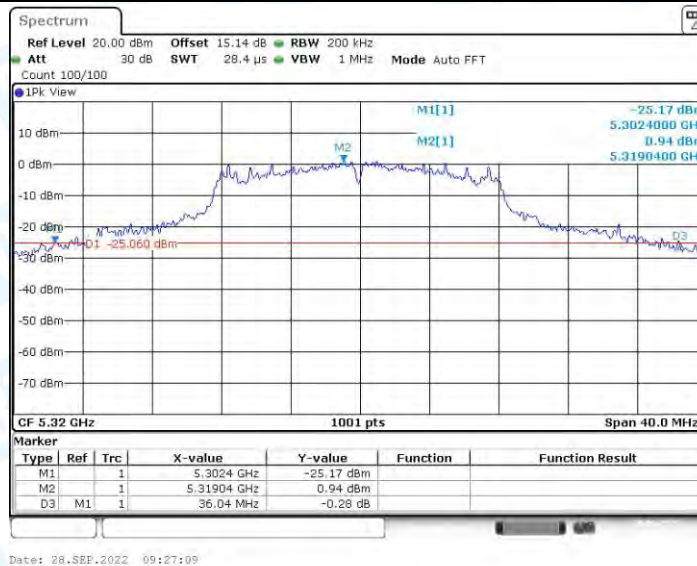
11A_Ant1_5260



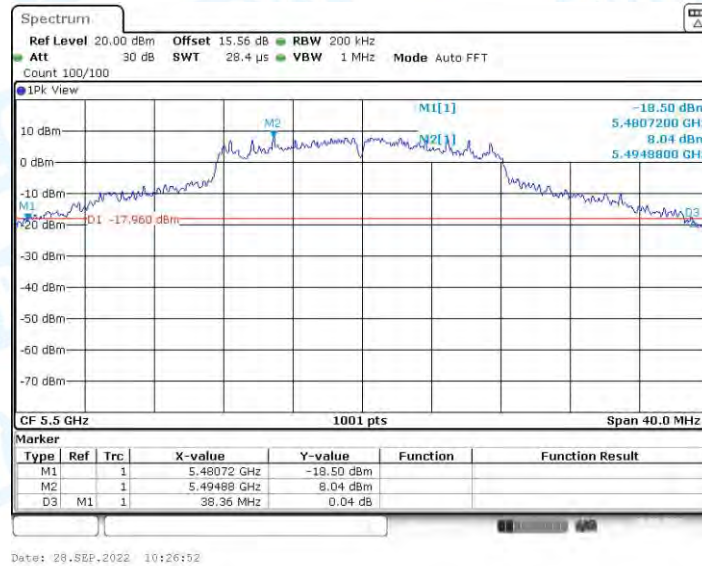
11A_Ant1_5280



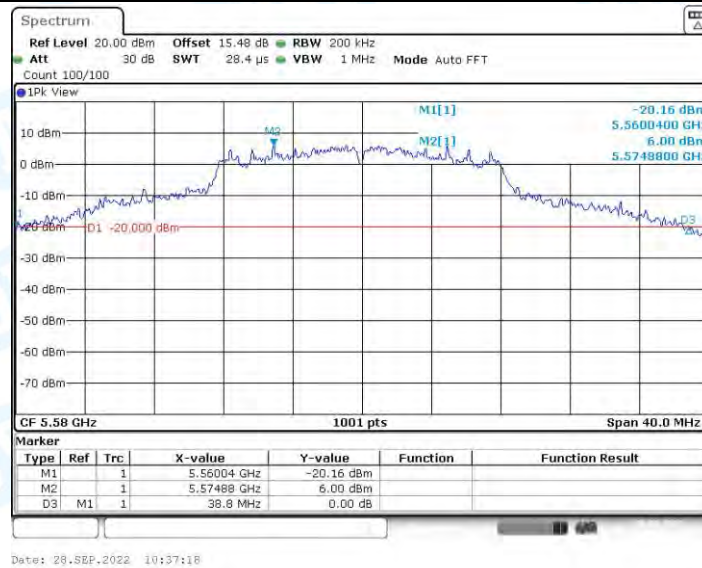
11A_Ant1_5320



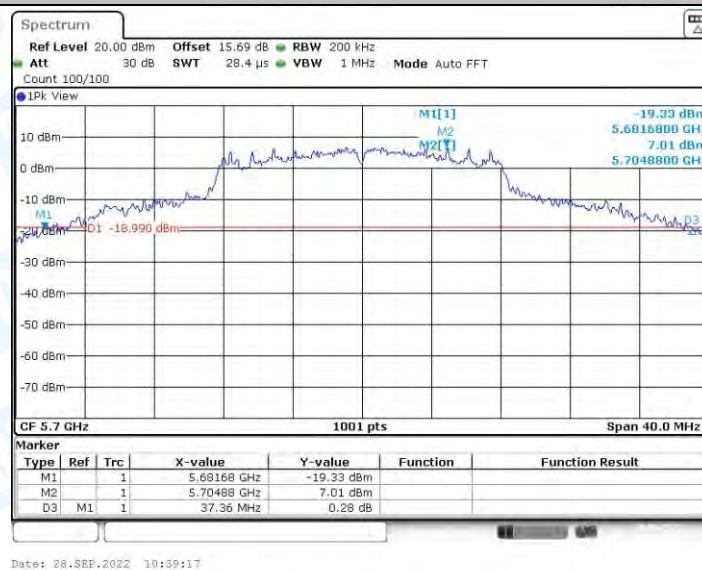
11A_Ant1_5500



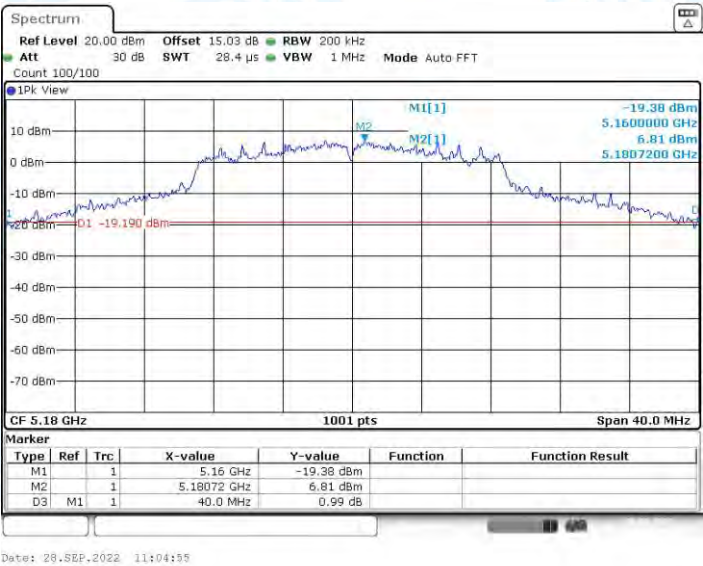
11A_Ant1_5580



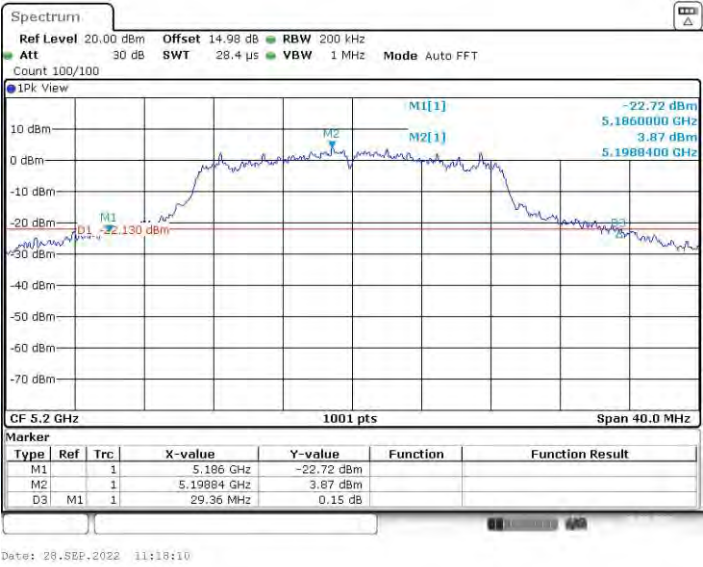
11A_Ant1_5700



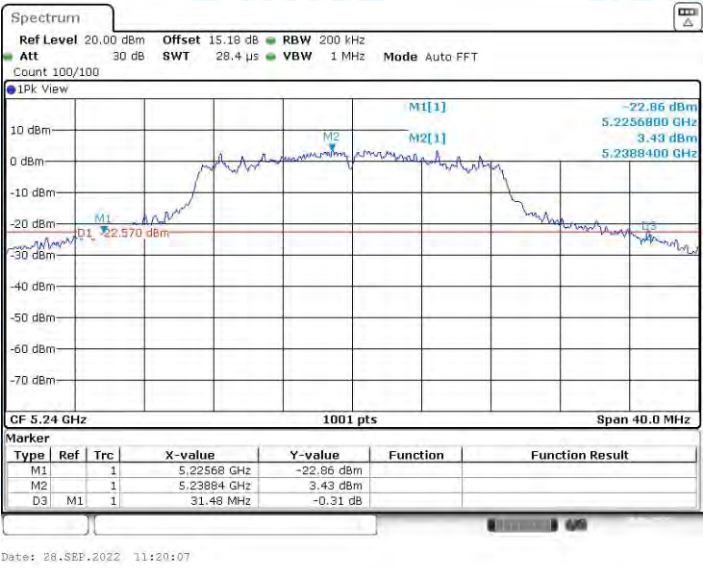
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



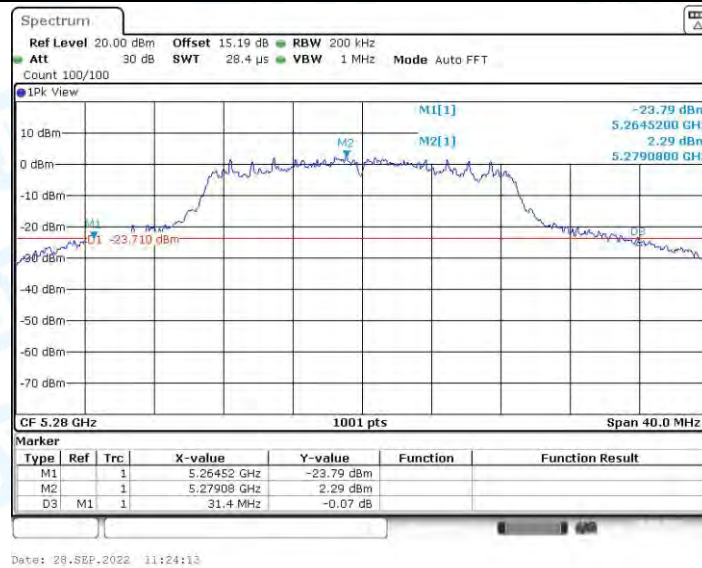
11N20SISO_Ant1_5240



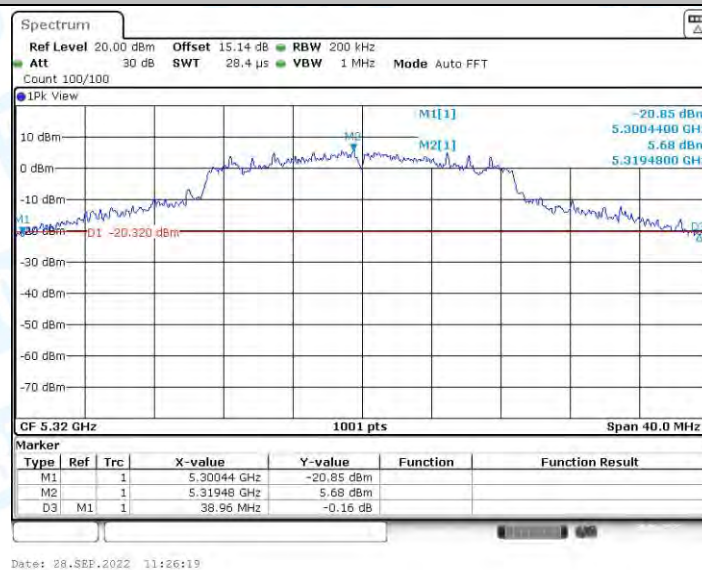
11N20SISO_Ant1_5260



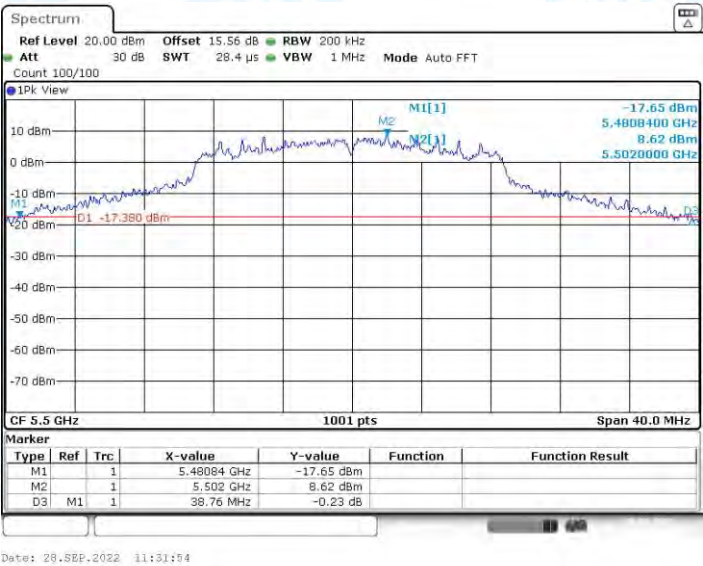
11N20SISO_Ant1_5280



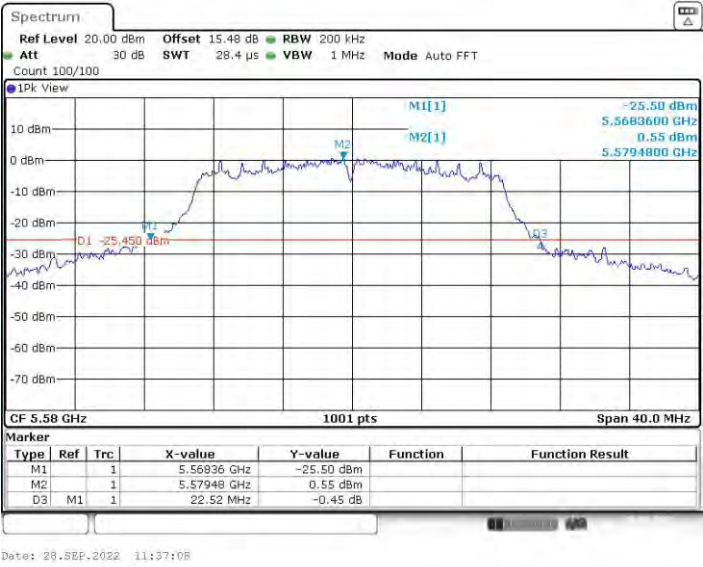
11N20SISO_Ant1_5320



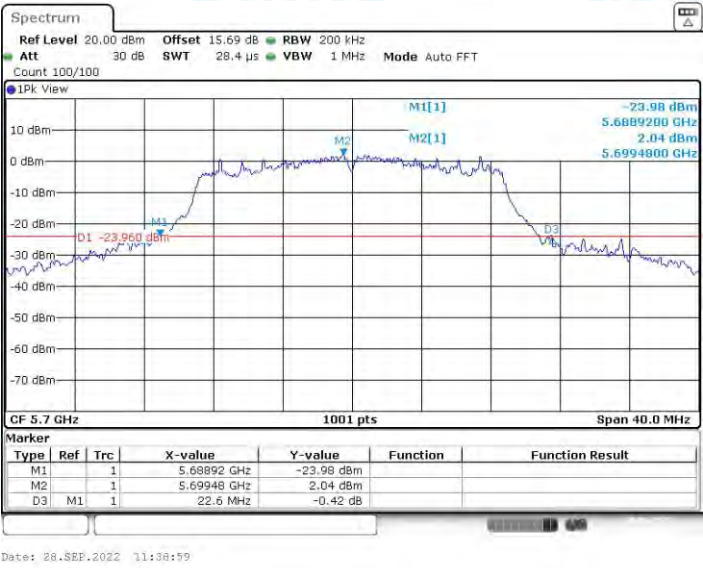
11N20SISO_Ant1_5500



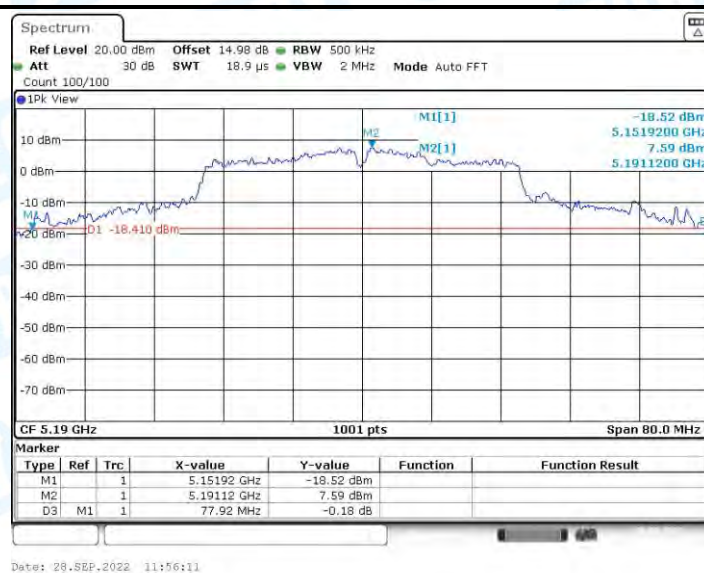
11N20SISO_Ant1_5580



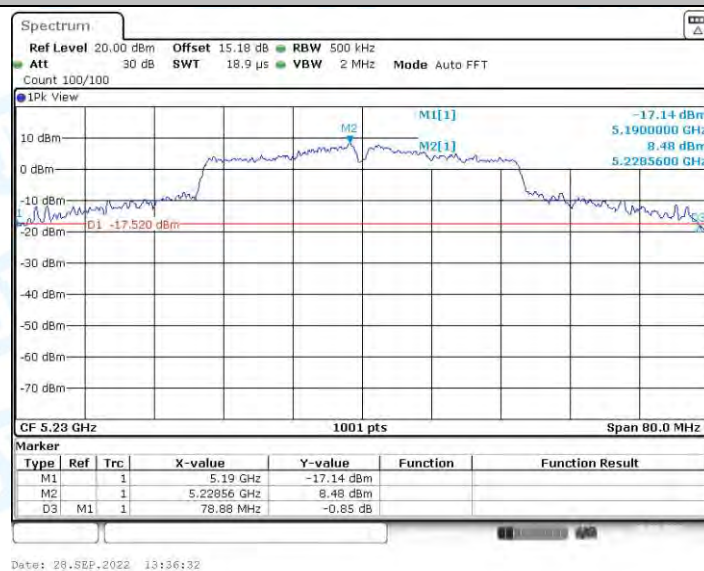
11N20SISO_Ant1_5700



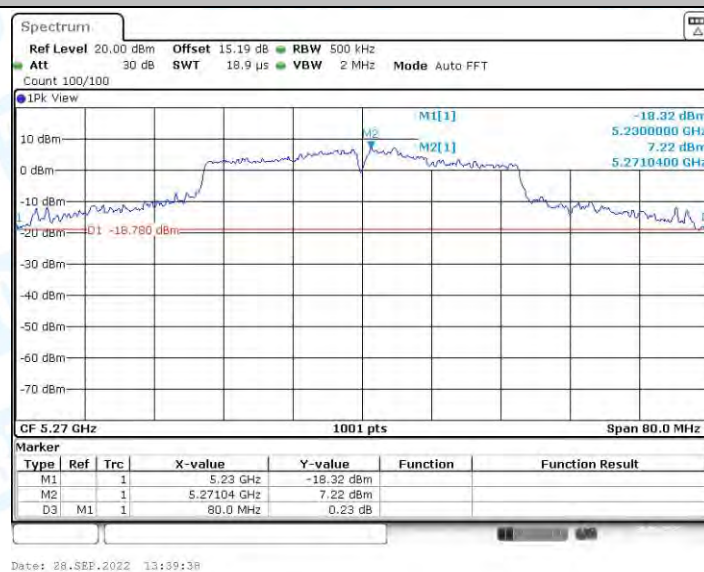
11N40SISO_Ant1_5190



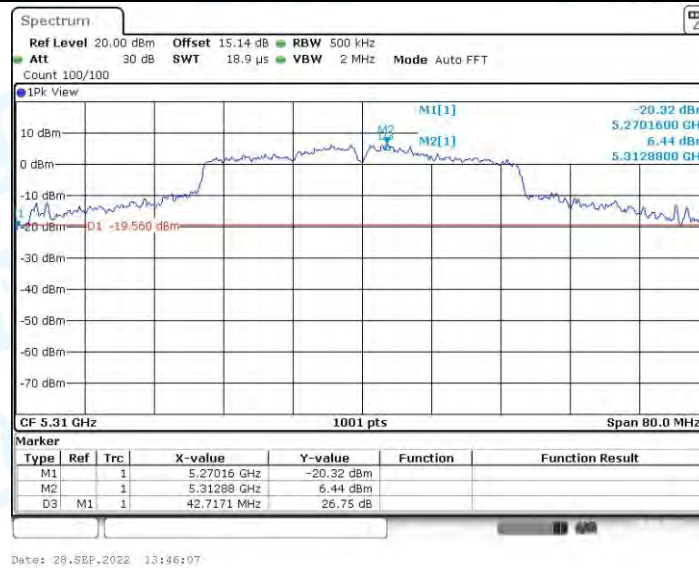
11N40SISO_Ant1_5230



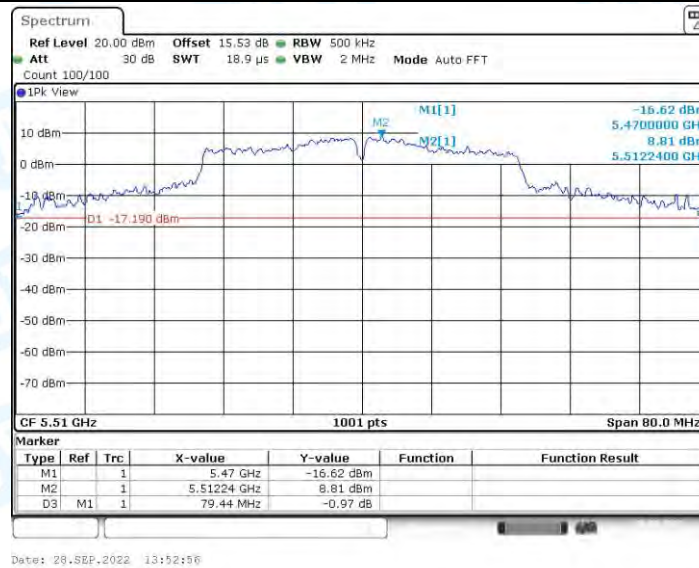
11N40SISO_Ant1_5270



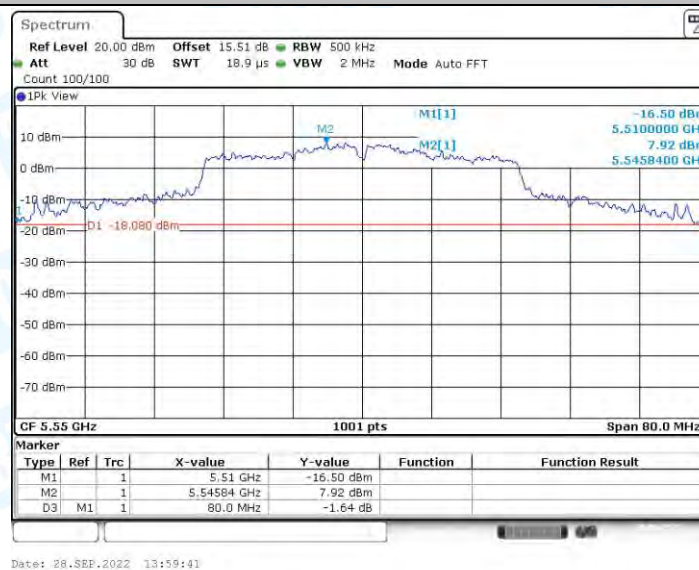
11N40SISO_Ant1_5310



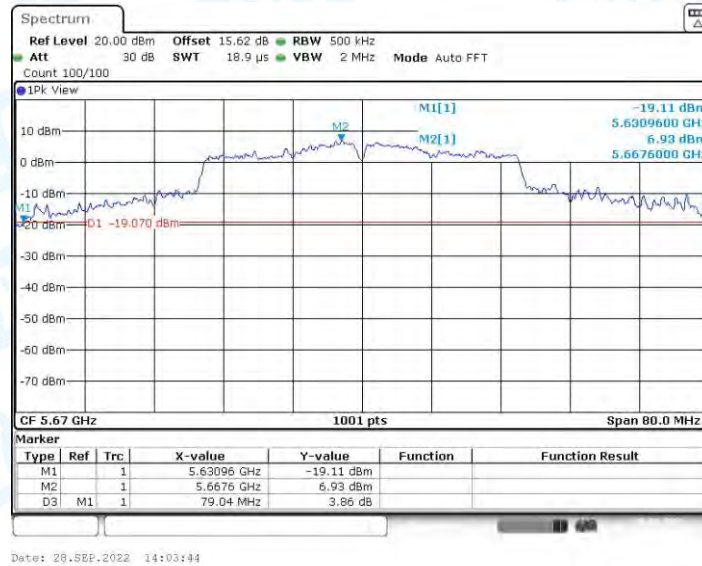
11N40SISO_Ant1_5510



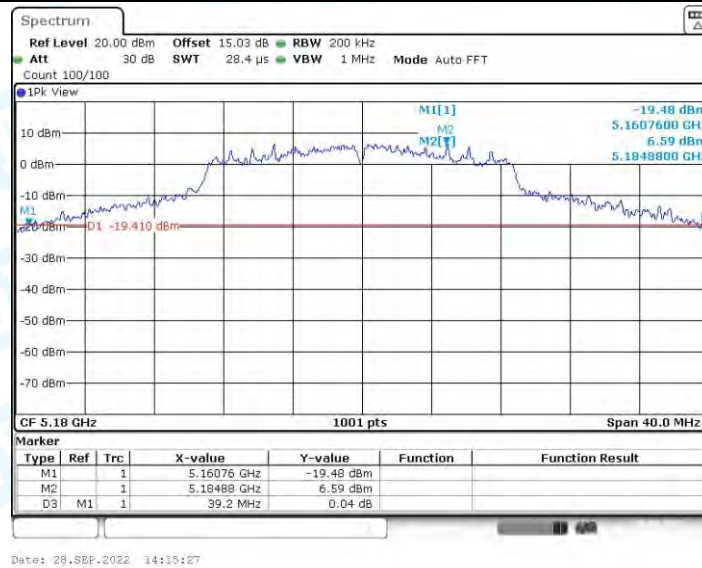
11N40SISO_Ant1_5550



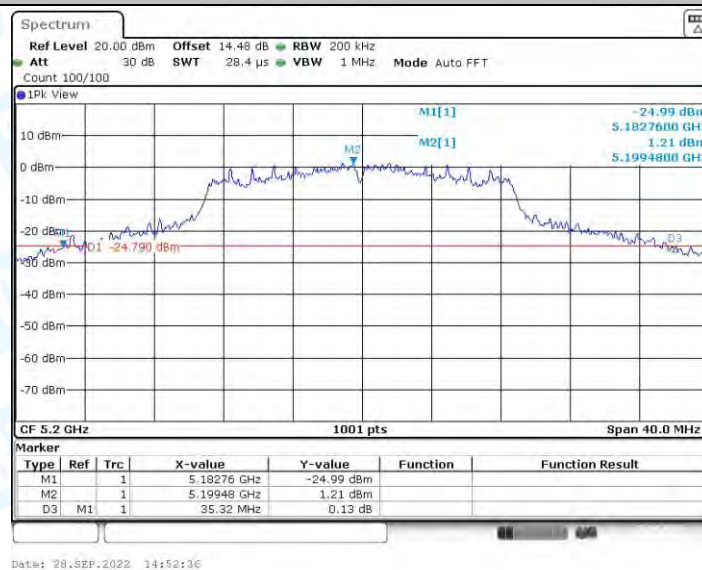
11N40SISO_Ant1_5670



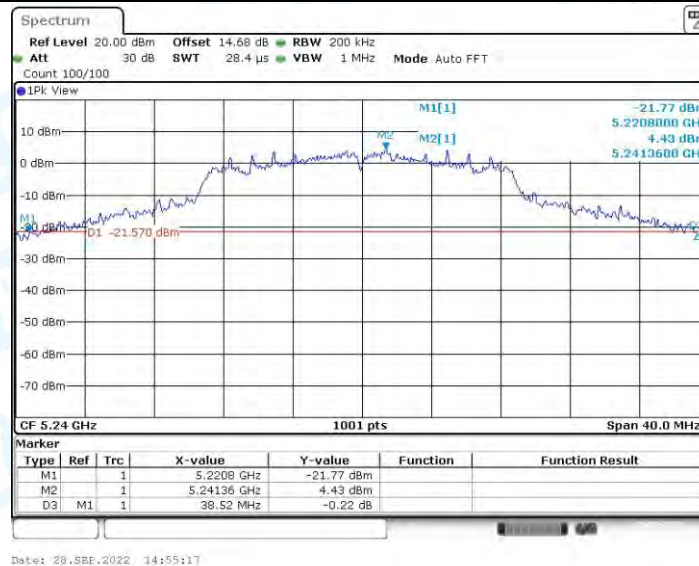
11AC20SISO_Ant1_5180



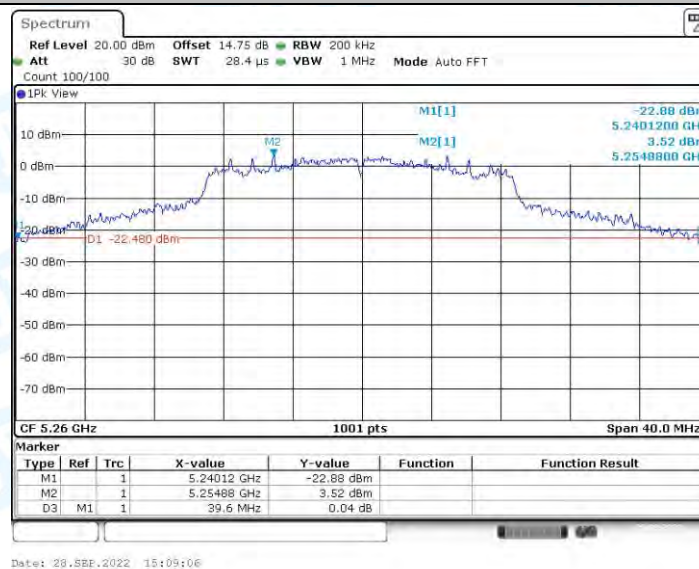
11AC20SISO_Ant1_5200



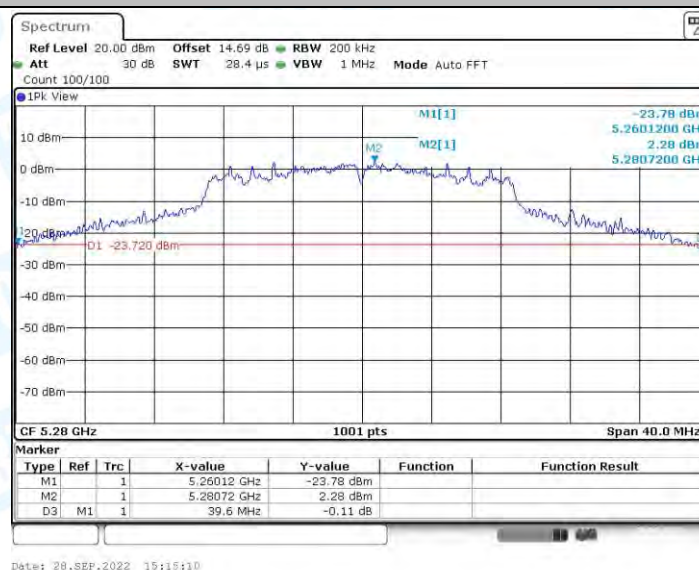
11AC20SISO_Ant1_5240



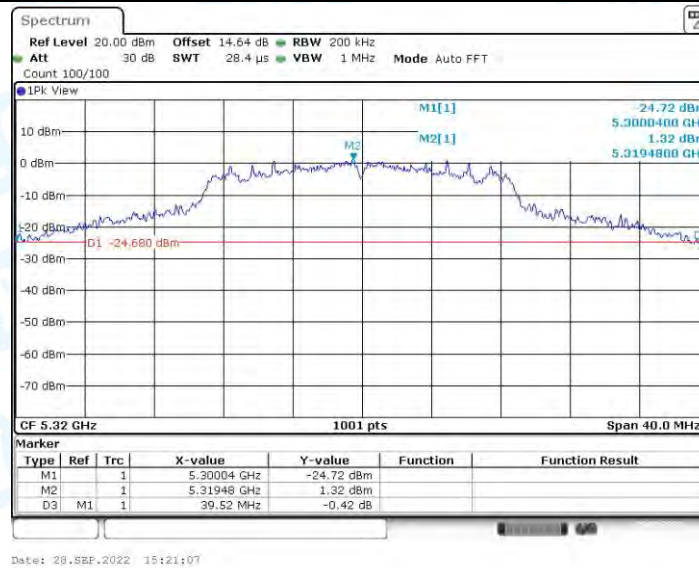
11AC20SISO_Ant1_5260



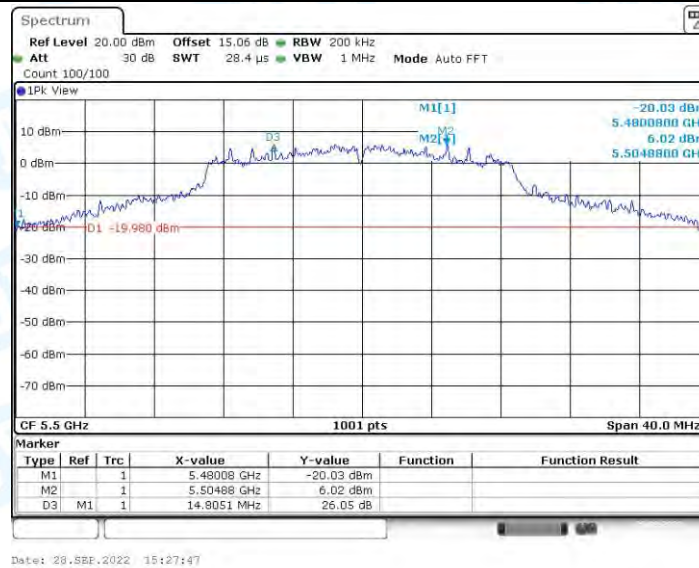
11AC20SISO_Ant1_5280



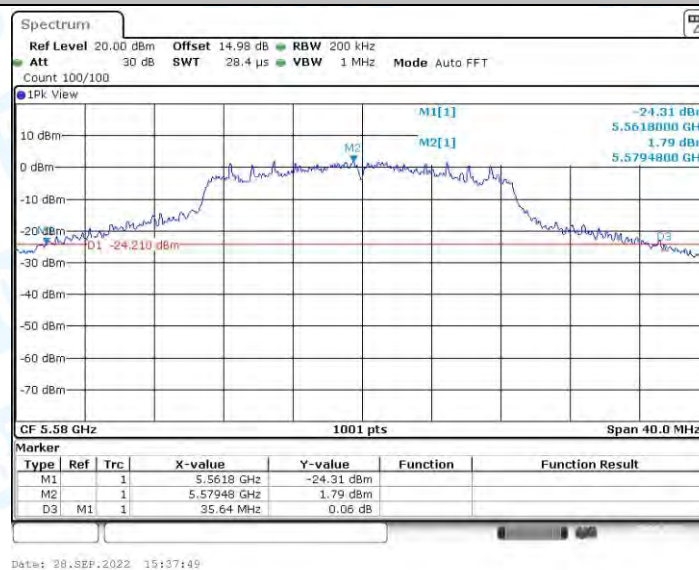
11AC20SISO_Ant1_5320



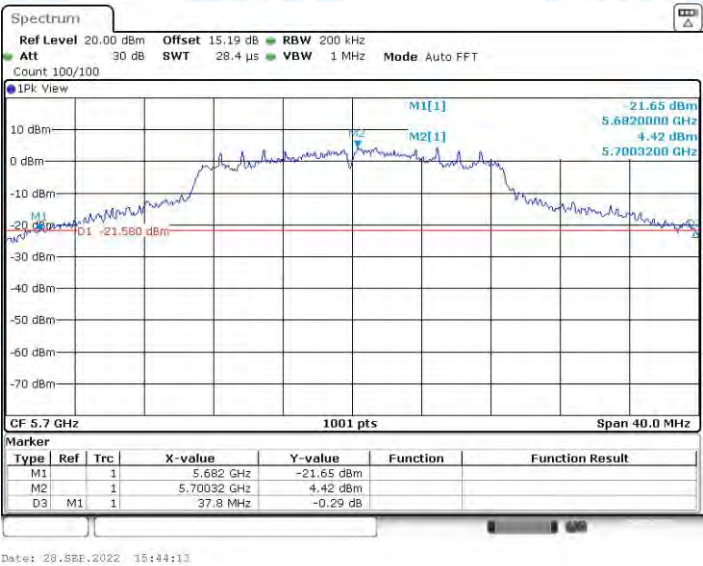
11AC20SISO_Ant1_5500



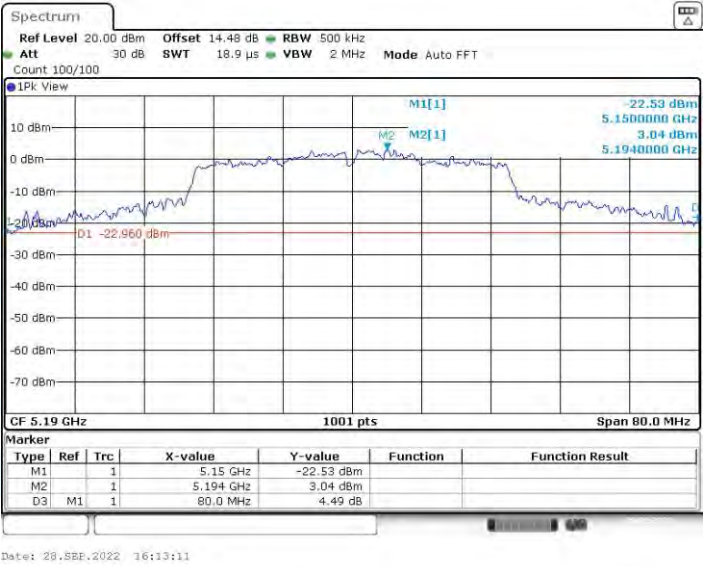
11AC20SISO_Ant1_5580



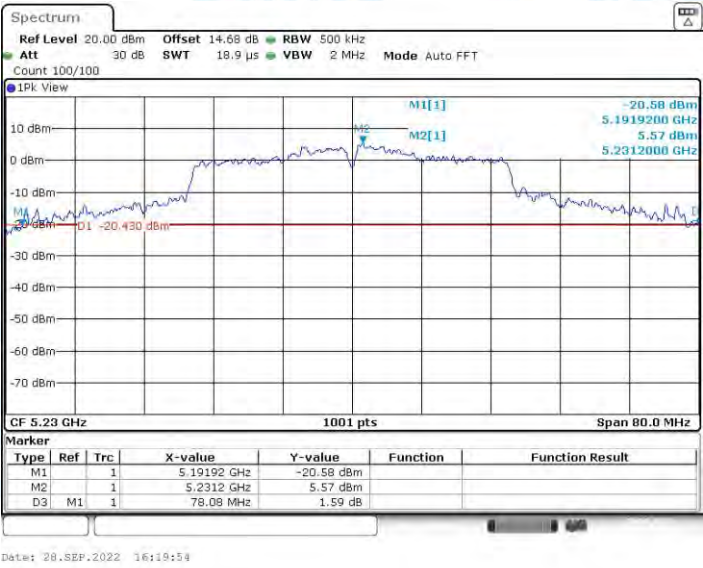
11AC20SISO_Ant1_5700



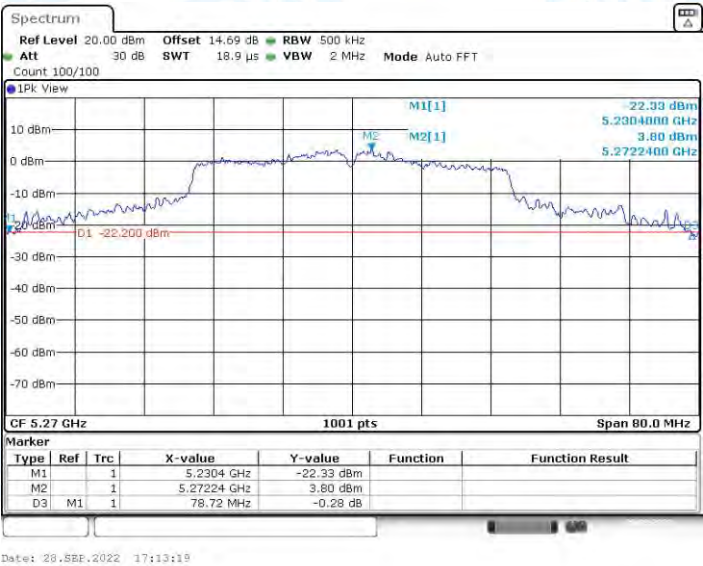
11AC40SISO_Ant1_5190



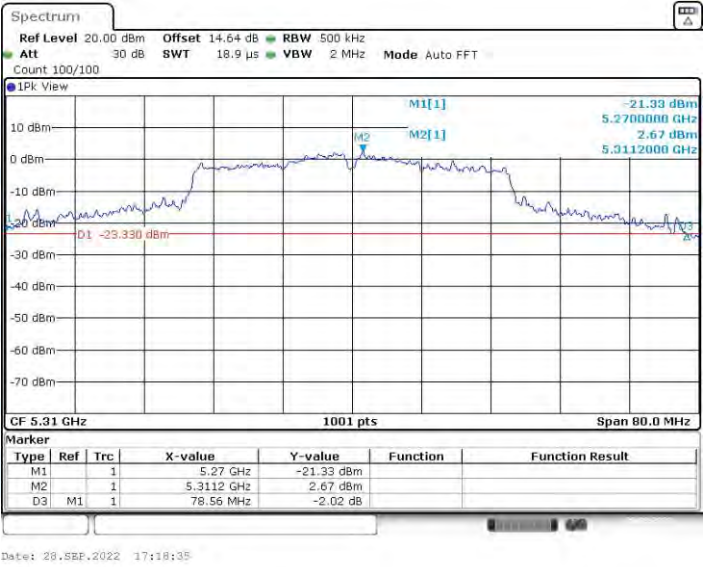
11AC40SISO_Ant1_5230



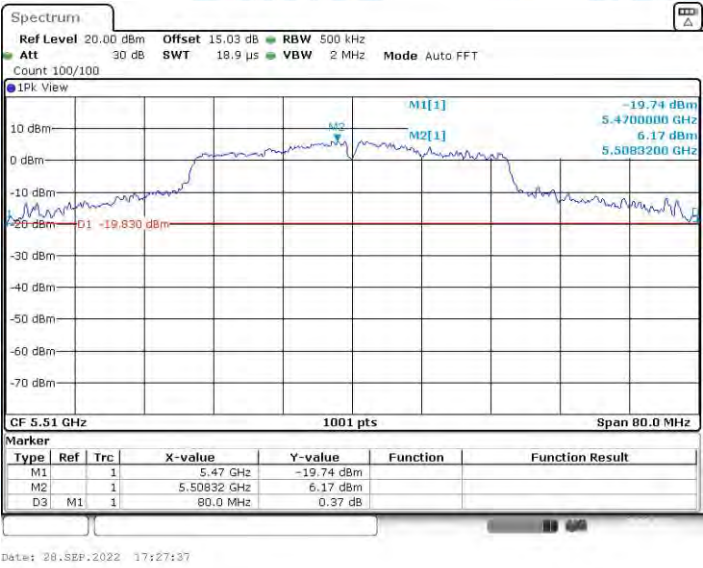
11AC40SISO_Ant1_5270



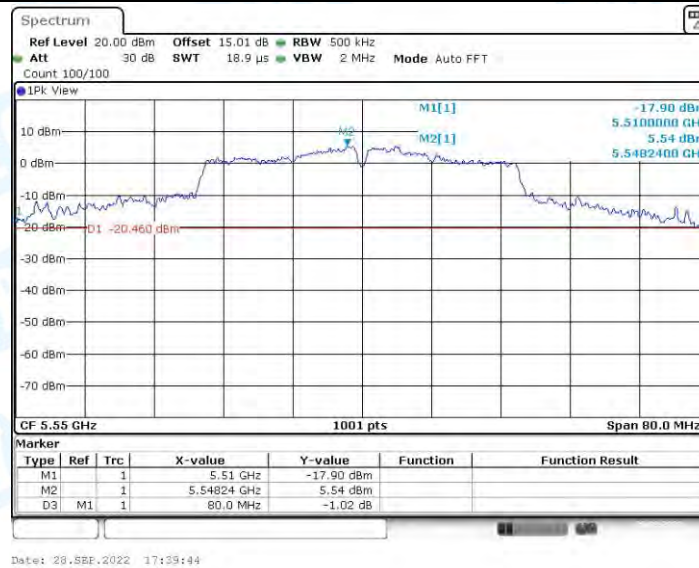
11AC40SISO_Ant1_5310



11AC40SISO_Ant1_5510



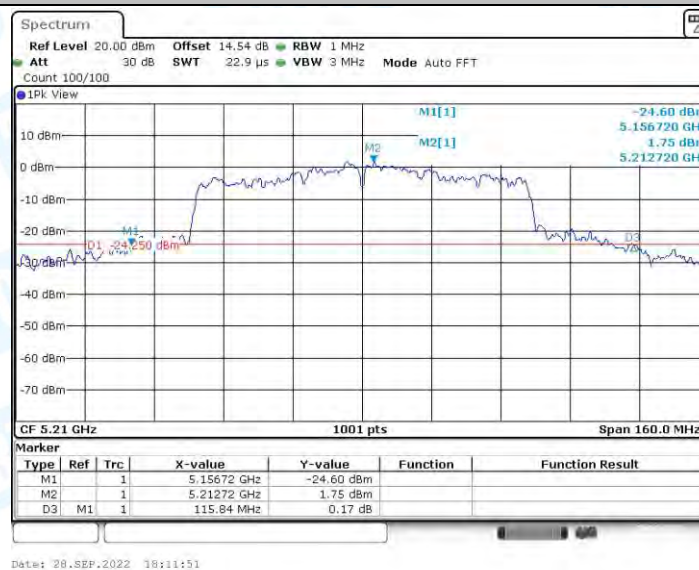
11AC40SISO_Ant1_5550



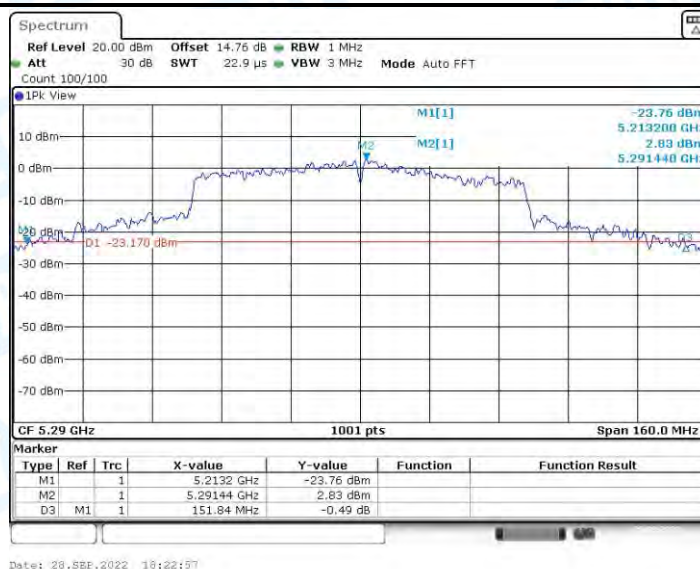
11AC40SISO_Ant1_5670



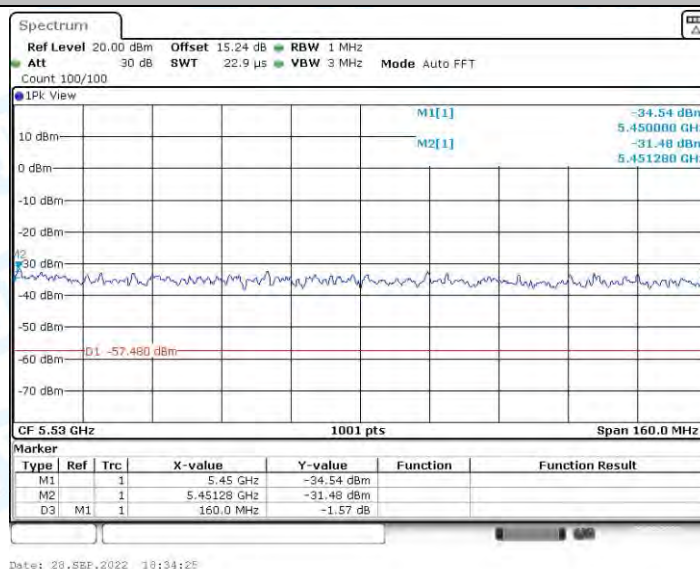
11AC80SISO_Ant1_5210



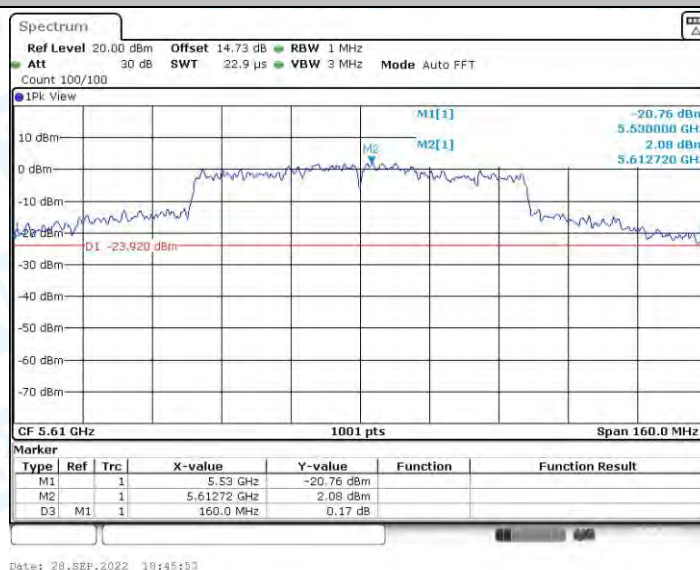
11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



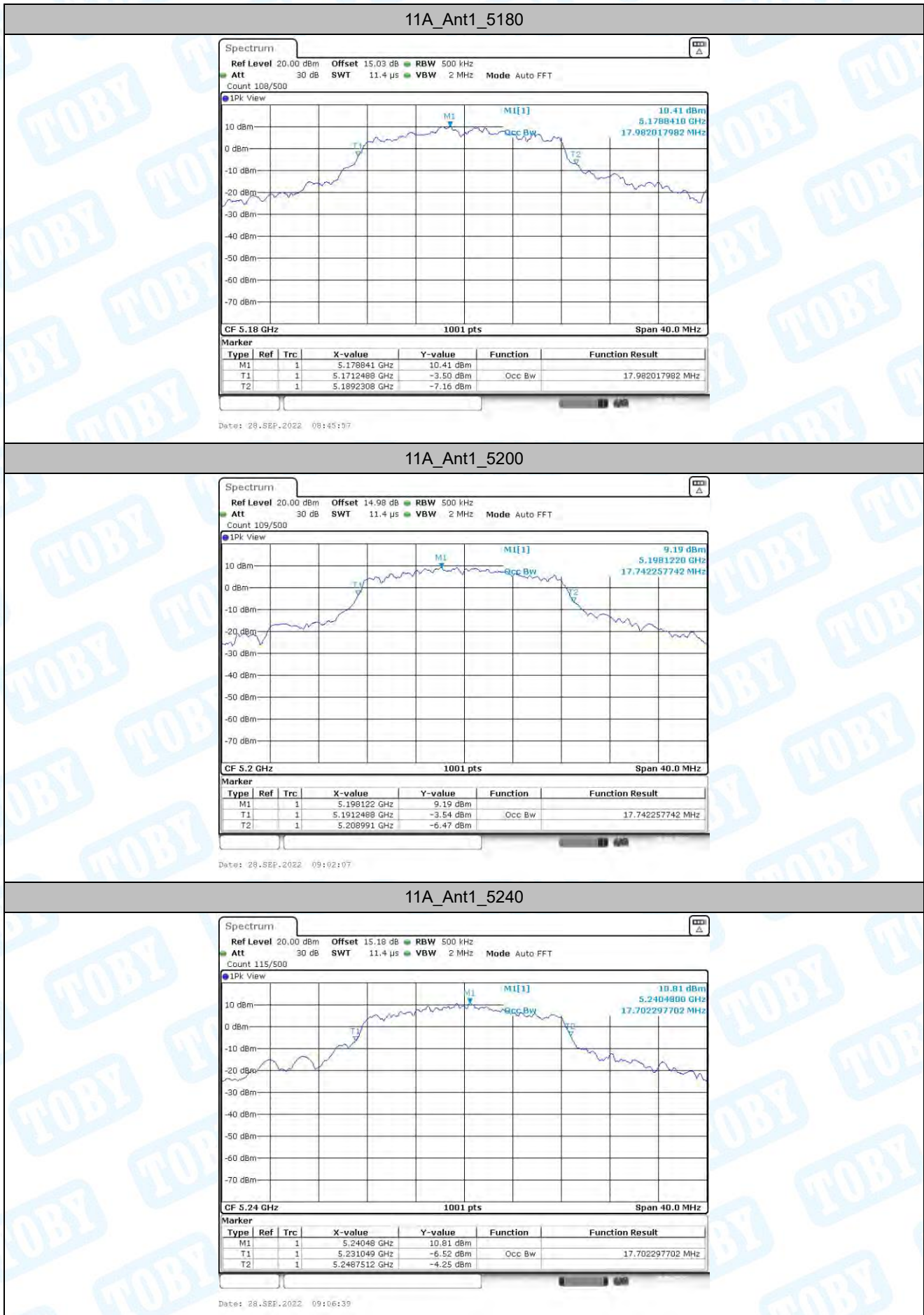
2. Occupied channel bandwidth

2.1. Test Result

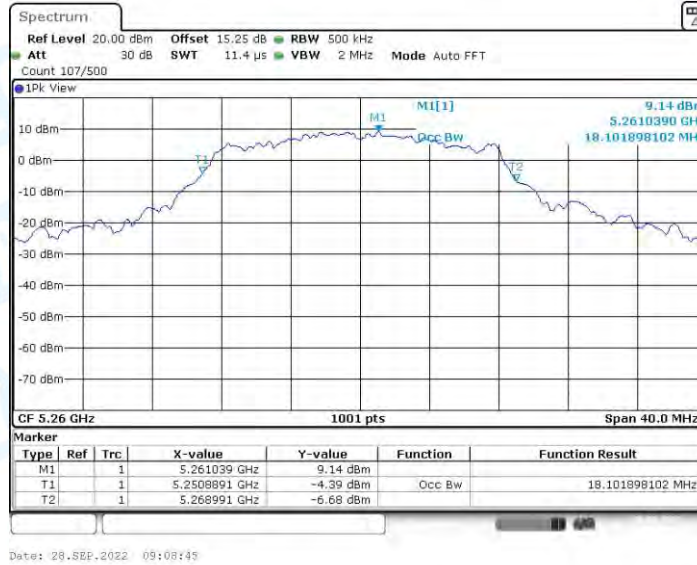
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.982	5171.2488	5189.2308	---	---
		5200	17.742	5191.2488	5208.9910	---	---
		5240	17.702	5231.0490	5248.7512	---	---
		5260	18.102	5250.8891	5268.9910	---	---
		5280	18.541	5270.6094	5289.1508	---	---
		5320	20.539	5309.4505	5329.9900	---	---
		5500	25.295	5487.5724	5512.8671	---	---
		5580	26.294	5566.4535	5592.7473	---	---
		5700	24.935	5687.8921	5712.8272	---	---
		5745	19.301	5734.9700	5754.2707	---	---
		5785	19.5	5775.0100	5794.5105	---	---
		5825	19.021	5815.0899	5834.1109	---	---
11N20SISO	Ant1	5180	25.574	5167.6523	5193.2268	---	---
		5200	19.7	5190.6094	5210.3097	---	---
		5240	18.981	5230.3696	5249.3506	---	---
		5260	18.741	5250.5694	5269.3107	---	---
		5280	18.821	5270.5694	5289.3906	---	---
		5320	24.575	5307.8122	5332.3876	---	---
		5500	25.055	5486.6134	5511.6683	---	---
		5580	17.822	5570.9690	5588.7912	---	---
		5700	18.222	5690.8492	5709.0709	---	---
		5745	19.421	5735.1299	5754.5504	---	---
		5785	19.421	5775.0500	5794.4705	---	---
		5825	19.061	5815.1299	5834.1908	---	---
11N40SISO	Ant1	5190	52.108	5165.8641	5217.9720	---	---
		5230	53.626	5204.5055	5258.1319	---	---
		5270	51.389	5245.6244	5297.0130	---	---
		5310	56.184	5280.5095	5336.6933	---	---
		5510	54.905	5483.3866	5538.2917	---	---
		5550	52.428	5522.7473	5575.1748	---	---
		5670	52.987	5645.1449	5698.1319	---	---
		5755	51.708	5730.0649	5781.7732	---	---
		5795	51.149	5769.9850	5821.1339	---	---
11AC20SISO	Ant1	5180	24.895	5167.8122	5192.7073	---	---
		5200	20.939	5189.3307	5210.2697	---	---
		5240	25.175	5227.7323	5252.9071	---	---
		5260	25.415	5246.6533	5272.0679	---	---
		5280	25.854	5266.1339	5291.9880	---	---
		5320	26.214	5307.0130	5333.2268	---	---
		5500	25.774	5487.2527	5513.0270	---	---
		5580	21.538	5568.2118	5589.7502	---	---

		5700	25.135	5687.9720	5713.1069	---	---
		5745	25.175	5732.6923	5757.8671	---	---
		5785	27.652	5770.6543	5798.3067	---	---
		5825	25.614	5811.6533	5837.2677	---	---
11AC40SISO	Ant1	5190	53.546	5165.6244	5219.1708	---	---
		5230	52.188	5206.1039	5258.2917	---	---
		5270	52.587	5242.7473	5295.3347	---	---
		5310	53.946	5280.6693	5334.6154	---	---
		5510	55.145	5482.0280	5537.1728	---	---
		5550	54.026	5520.8292	5574.8551	---	---
		5670	52.268	5646.5834	5698.8511	---	---
		5755	41.878	5736.2188	5778.0969	---	---
		5795	43.077	5773.5015	5816.5784	---	---
11AC80SISO	Ant1	5210	77.522	5171.7982	5249.3207	---	---
		5290	92.388	5242.2078	5334.5954	---	---
		5610	110.929	5553.2567	5664.1858	---	---
		5775	81.039	5735.9990	5817.0380	---	---

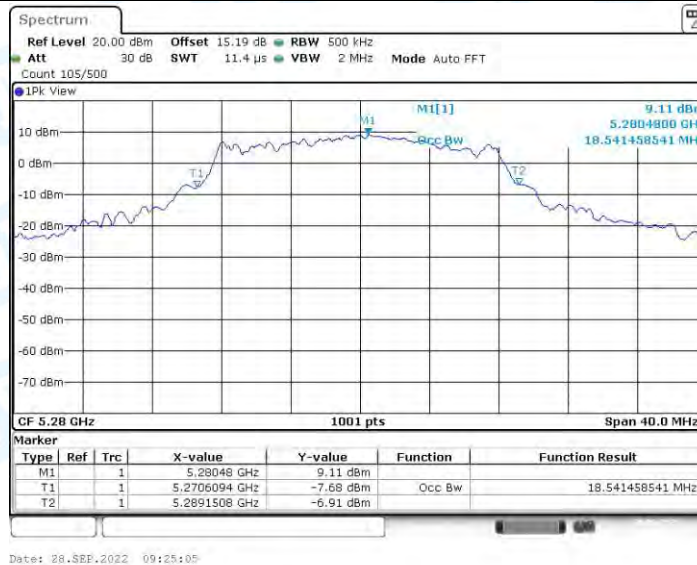
2.2. Test Graphs



11A_Ant1_5260



11A_Ant1_5280



11A_Ant1_5320



11A_Ant1_5500



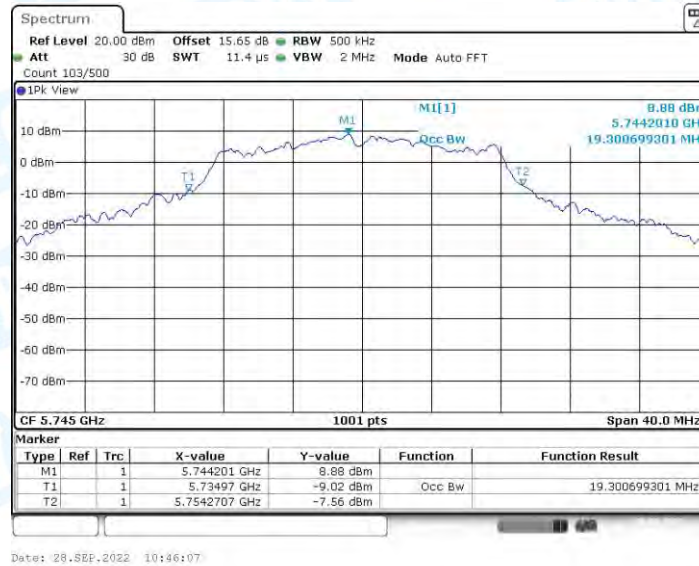
11A_Ant1_5580



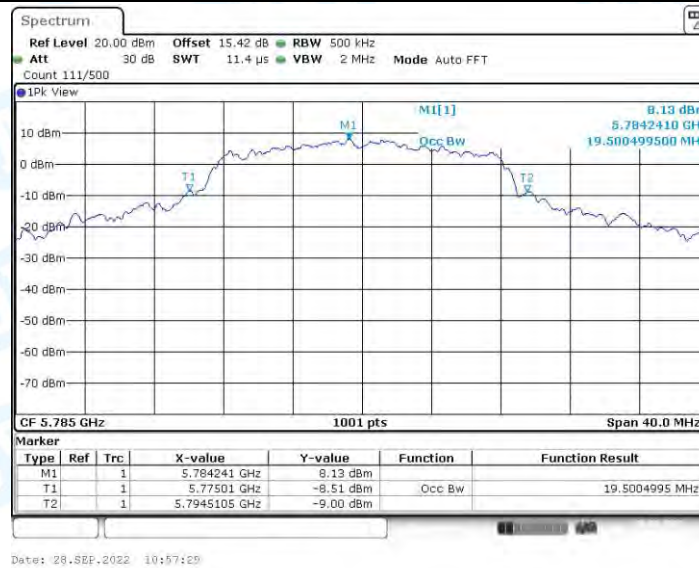
11A_Ant1_5700



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



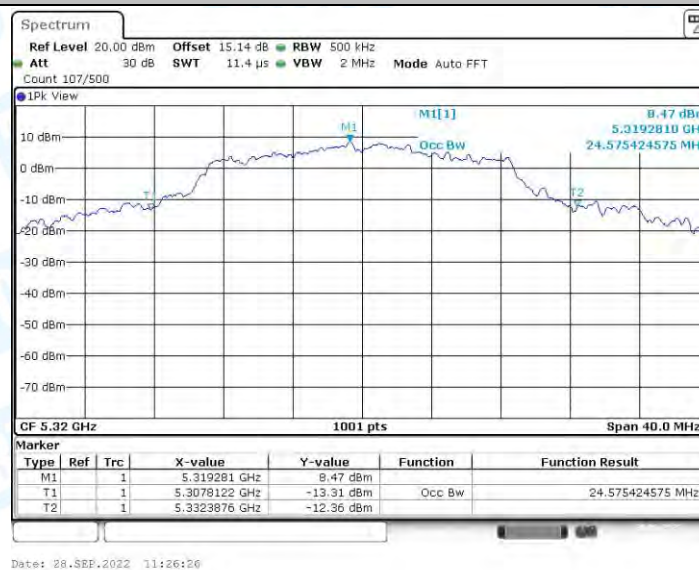
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



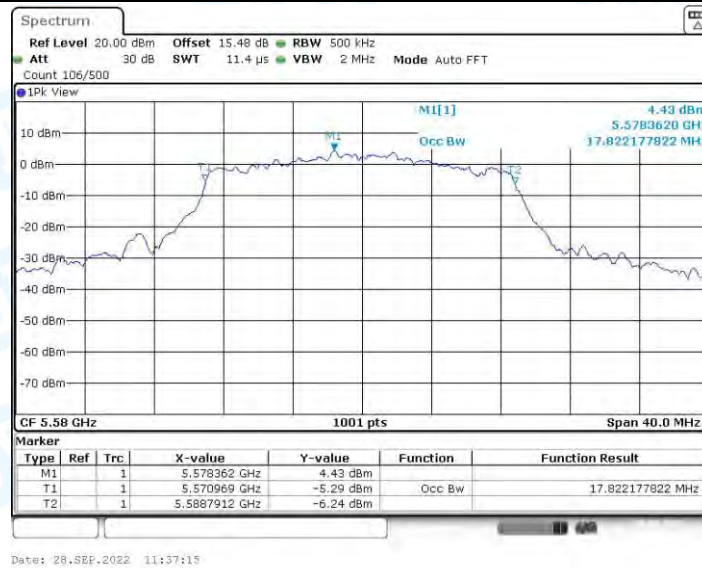
11N20SISO_Ant1_5320



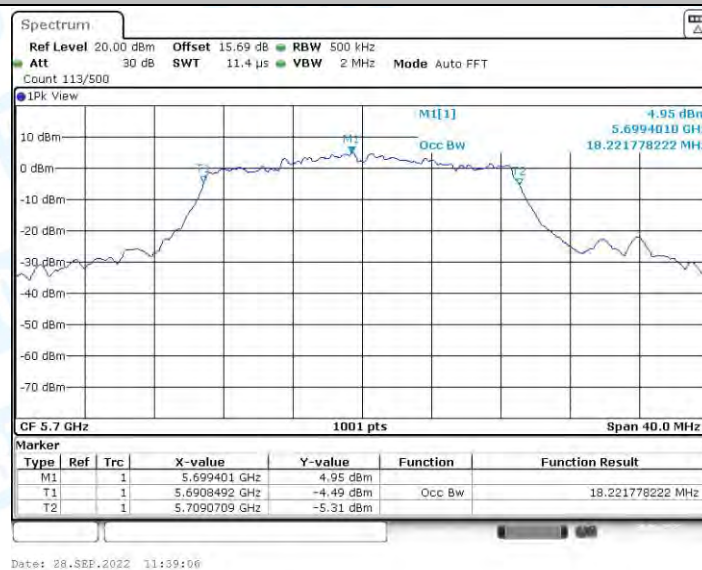
11N20SISO_Ant1_5500



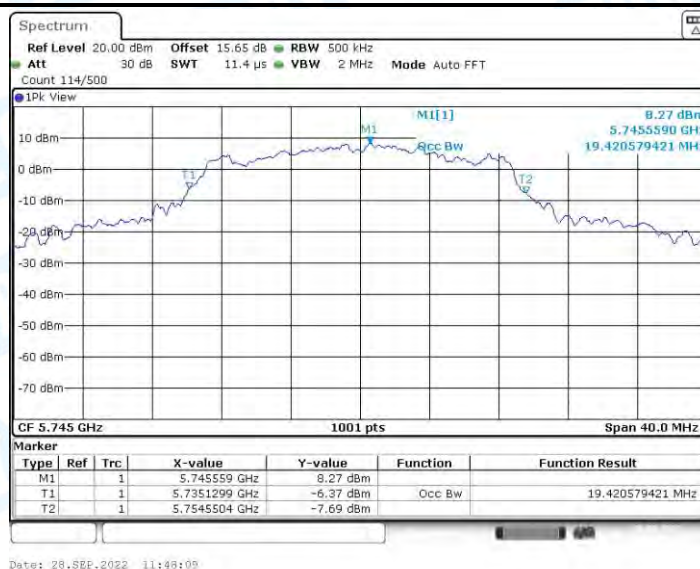
11N20SISO_Ant1_5580



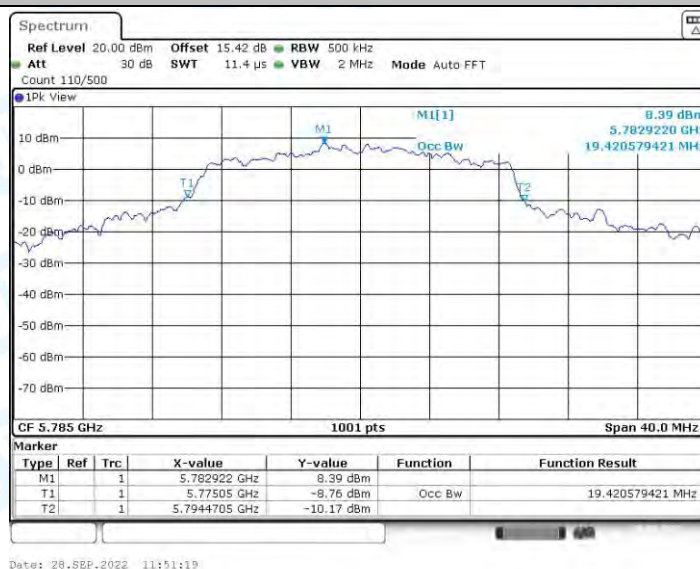
11N20SISO_Ant1_5700



11N20SISO_Ant1_5745



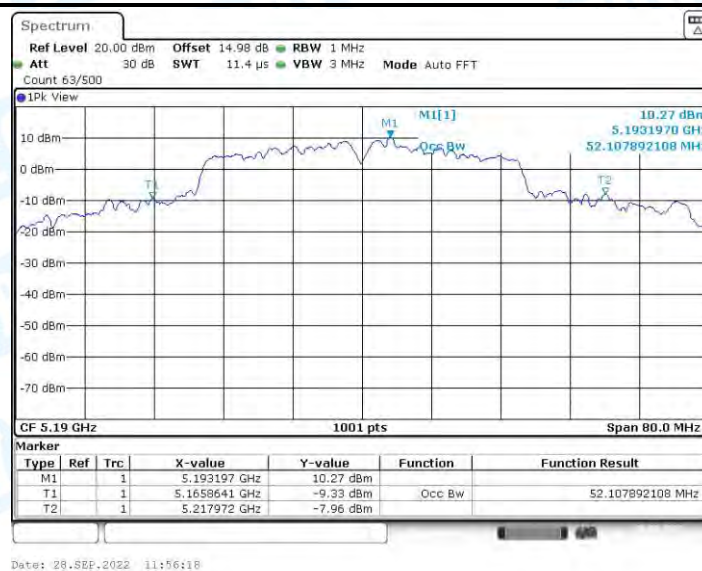
11N20SISO_Ant1_5785



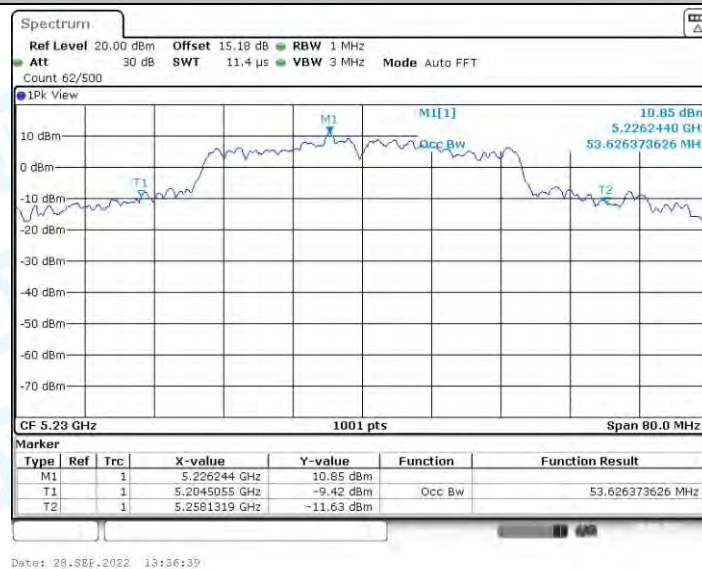
11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



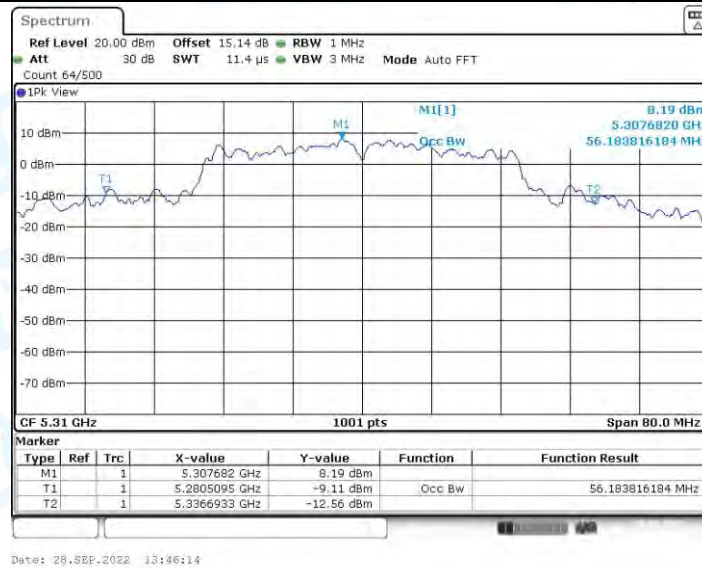
11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



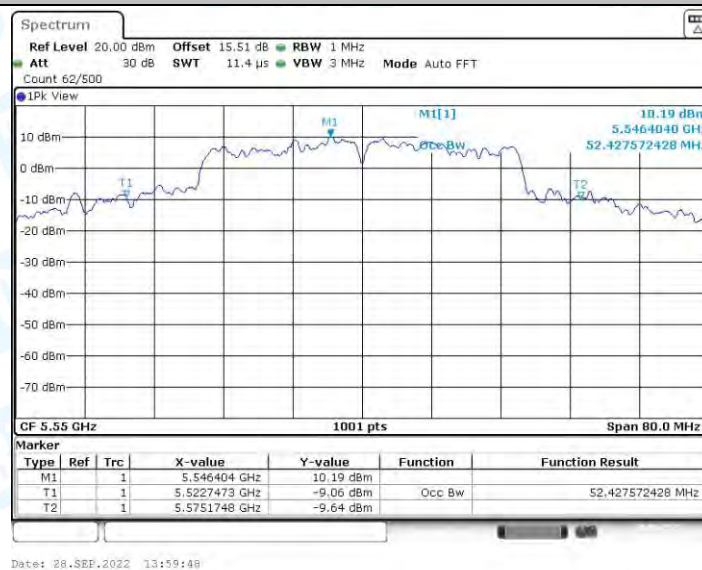
11N40SISO_Ant1_5310



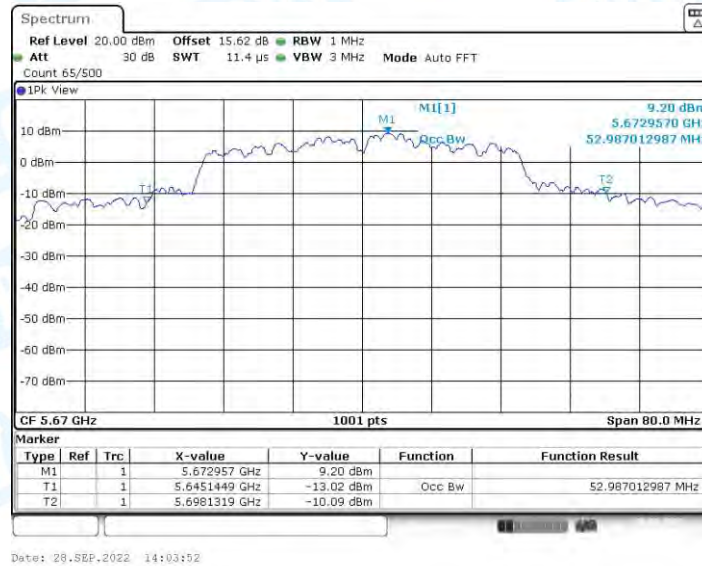
11N40SISO_Ant1_5510



11N40SISO_Ant1_5550



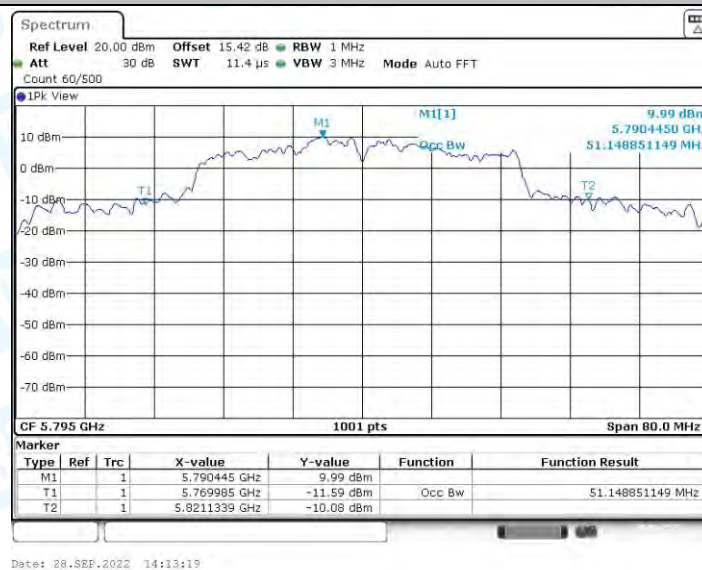
11N40SISO_Ant1_5670



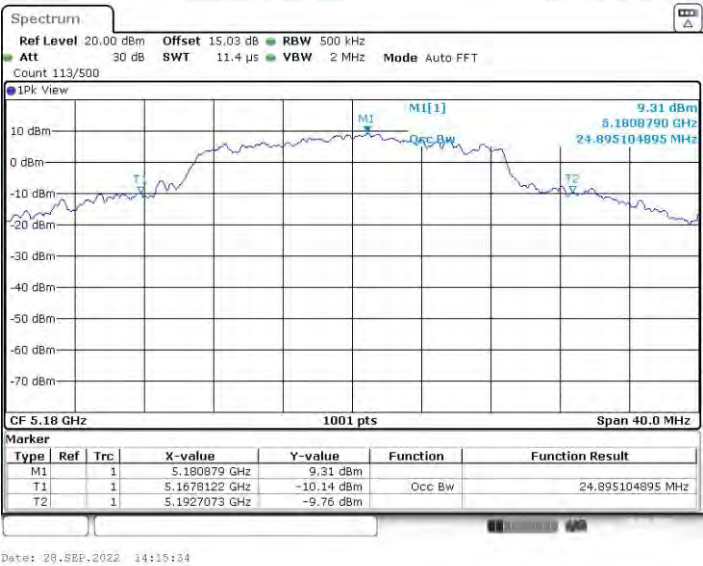
11N40SISO_Ant1_5755



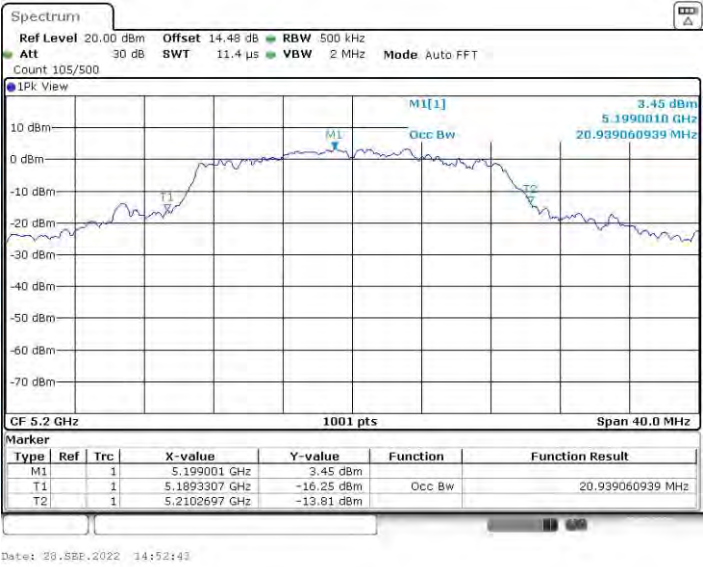
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



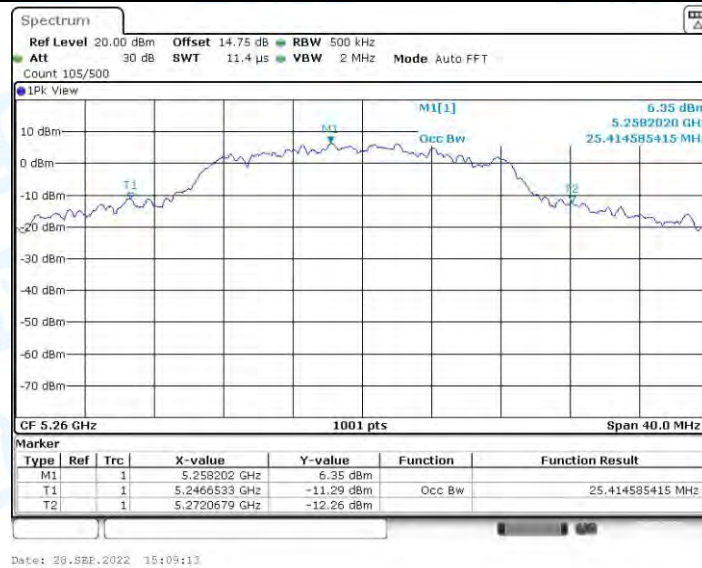
11AC20SISO_Ant1_5200



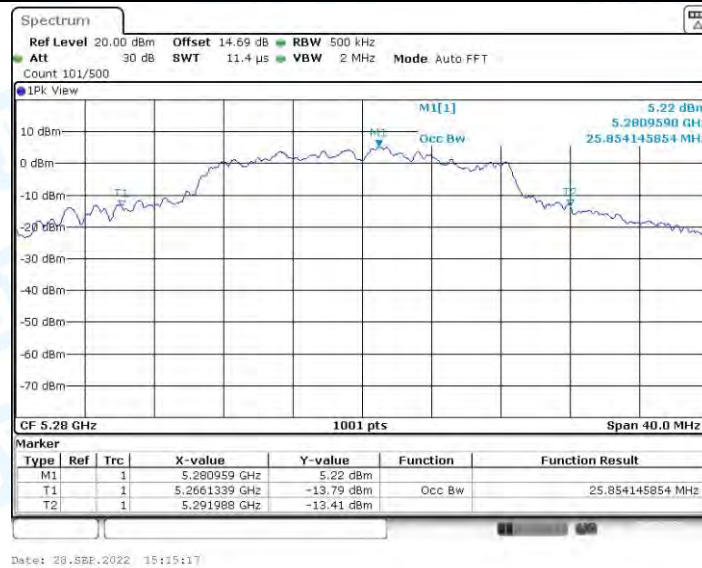
11AC20SISO_Ant1_5240



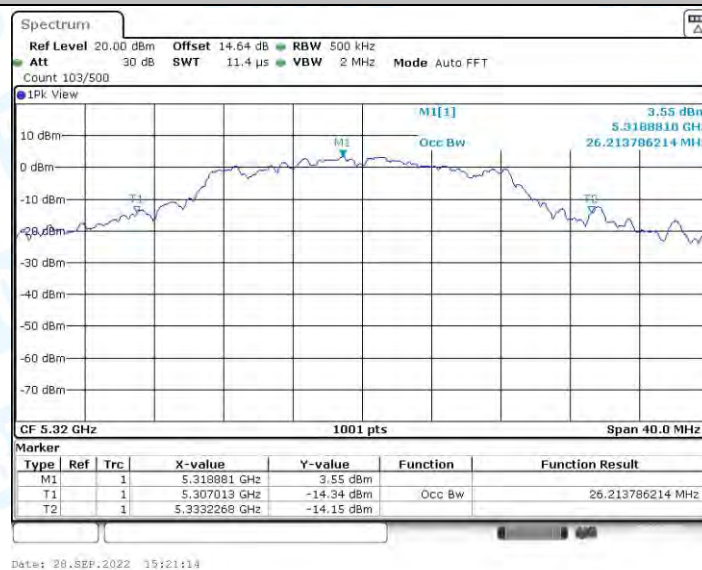
11AC20SISO_Ant1_5260



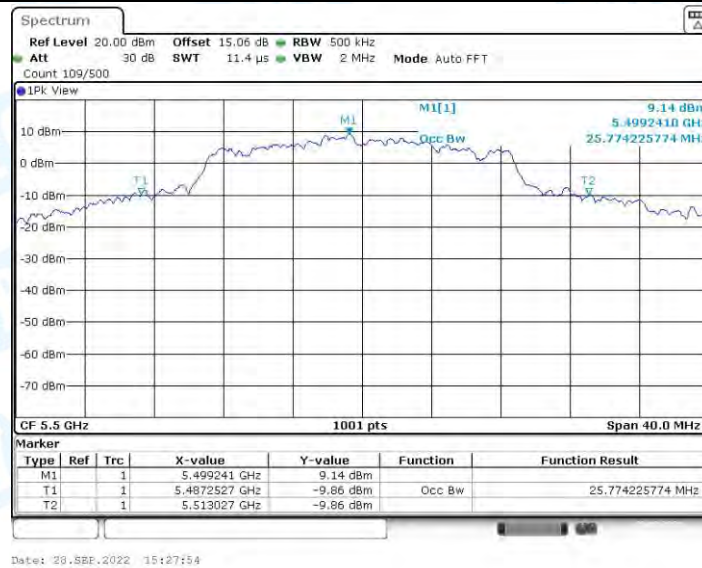
11AC20SISO_Ant1_5280



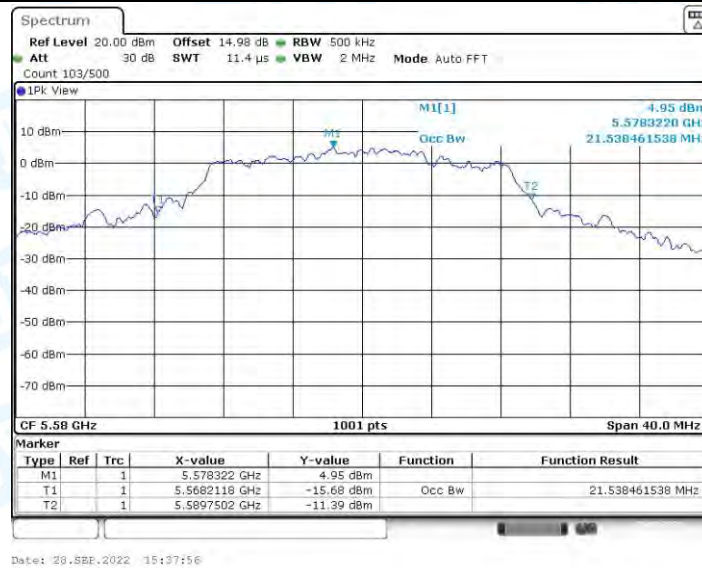
11AC20SISO_Ant1_5320



11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700



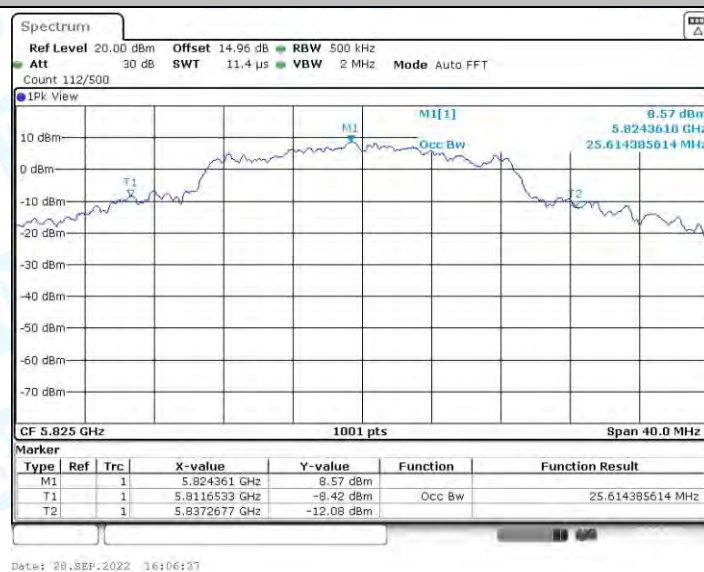
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



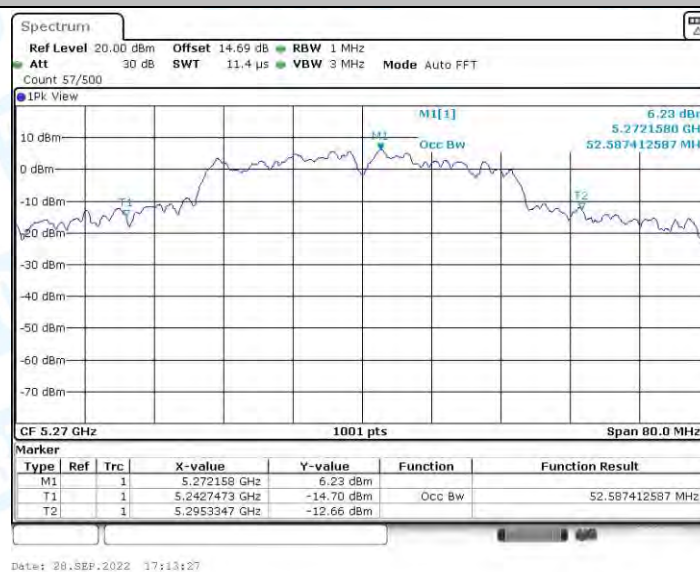
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



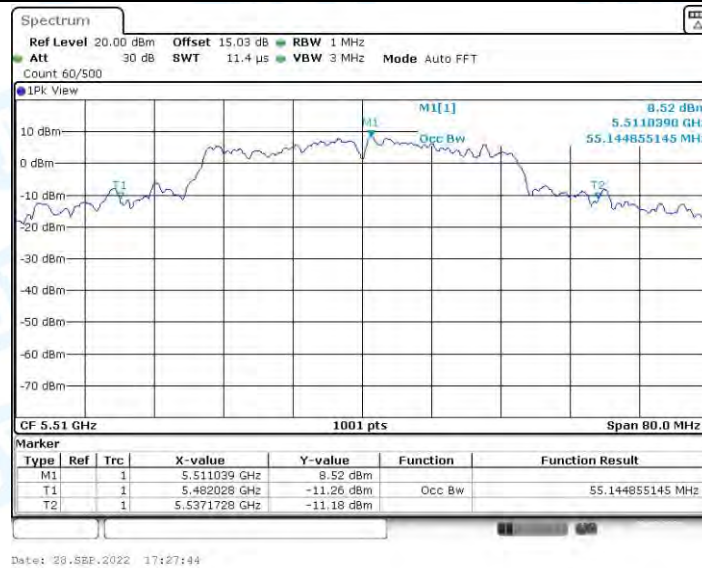
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC40SISO_Ant1_5510



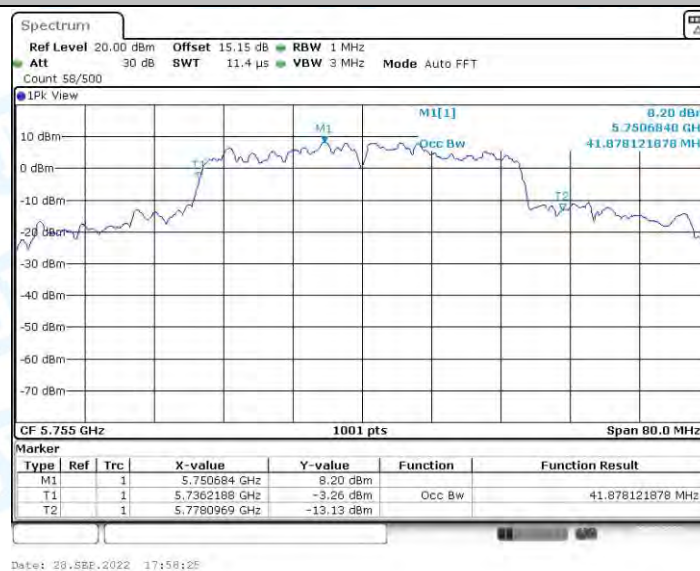
11AC40SISO_Ant1_5550



11AC40SISO_Ant1_5670



11AC40SISO_Ant1_5755



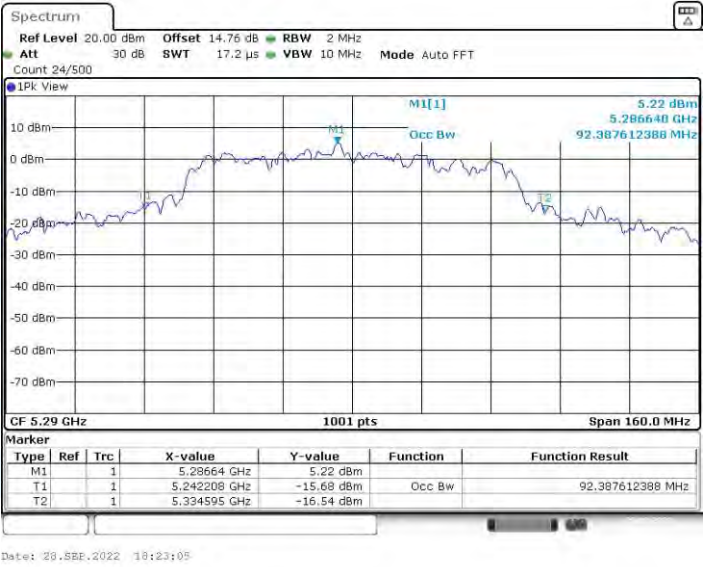
11AC40SISO_Ant1_5795



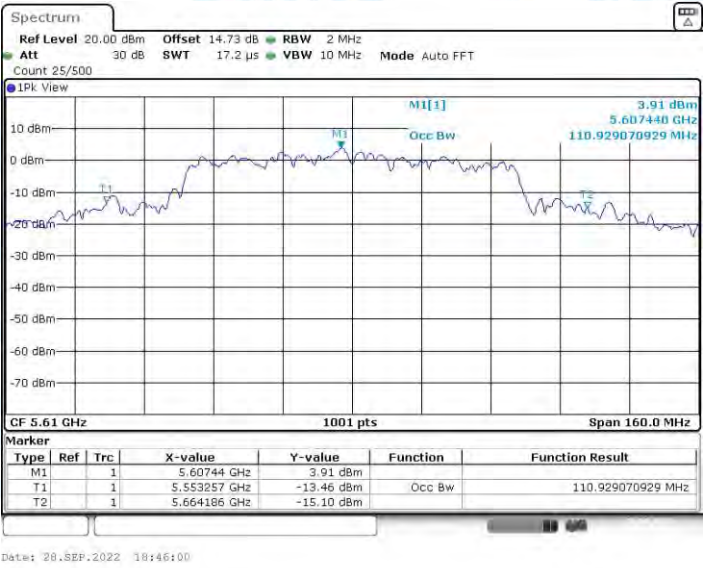
11AC80SISO_Ant1_5210



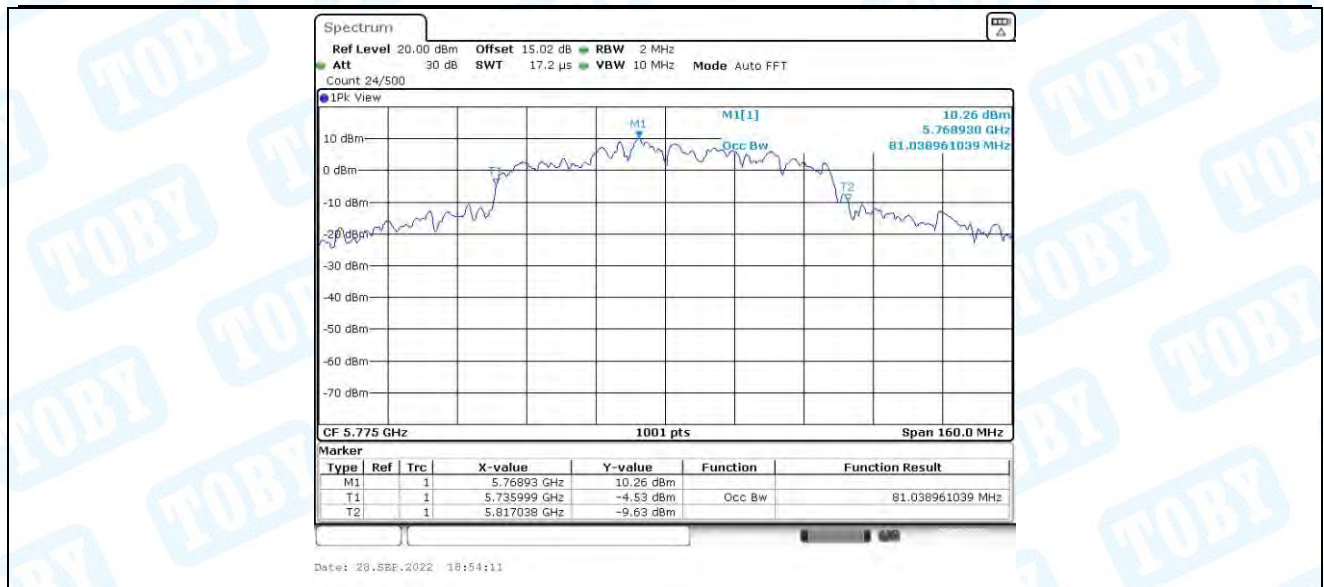
11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5775

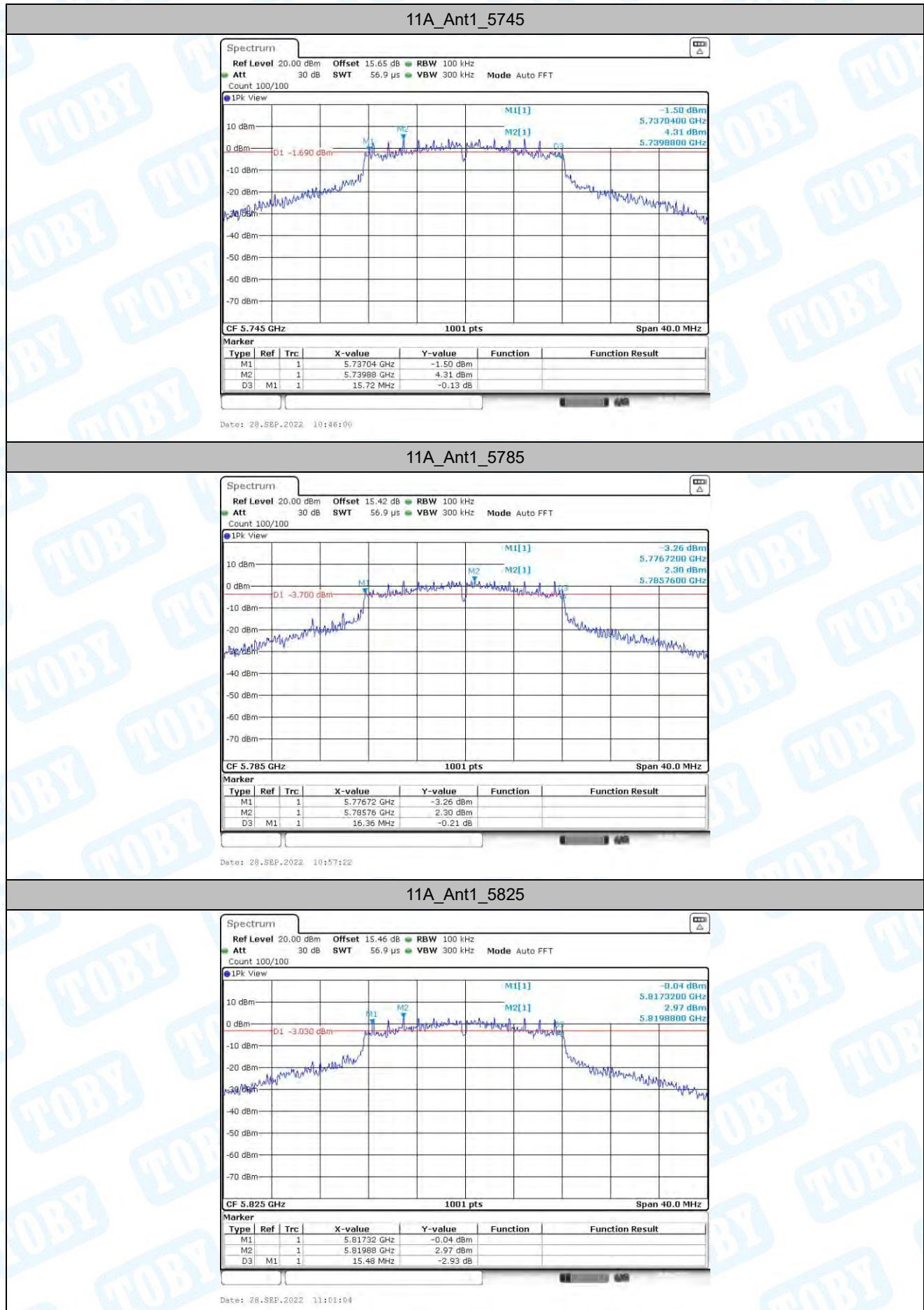


3. Min emission bandwidth

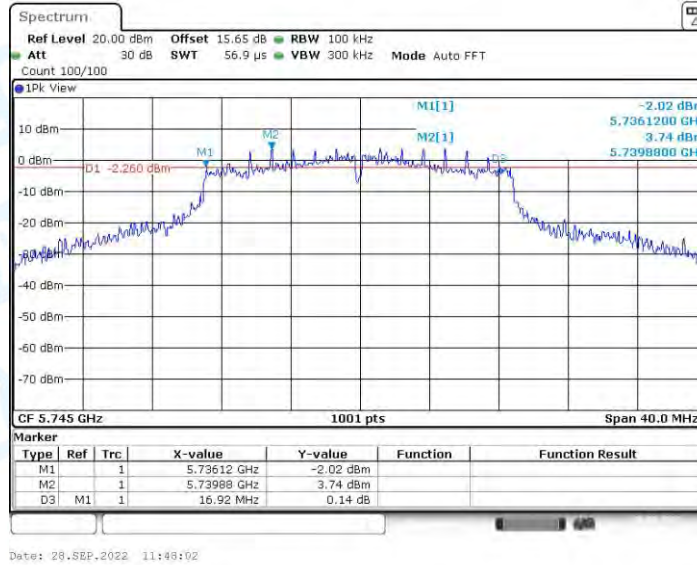
3.1. Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.72	5737.04	5752.76	0.5	PASS
		5785	16.36	5776.72	5793.08	0.5	PASS
		5825	15.48	5817.32	5832.80	0.5	PASS
11N20SISO	Ant1	5745	16.92	5736.12	5753.04	0.5	PASS
		5785	15.16	5777.32	5792.48	0.5	PASS
		5825	17.32	5816.12	5833.44	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.32	5772.44	0.5	PASS
		5795	35.76	5776.76	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	17.56	5736.12	5753.68	0.5	PASS
		5785	15.16	5777.32	5792.48	0.5	PASS
		5825	17.56	5816.12	5833.68	0.5	PASS
11AC40SISO	Ant1	5755	36.32	5736.76	5773.08	0.5	PASS
		5795	35.28	5777.16	5812.44	0.5	PASS
11AC80SISO	Ant1	5775	68.96	5743.48	5812.44	0.5	PASS

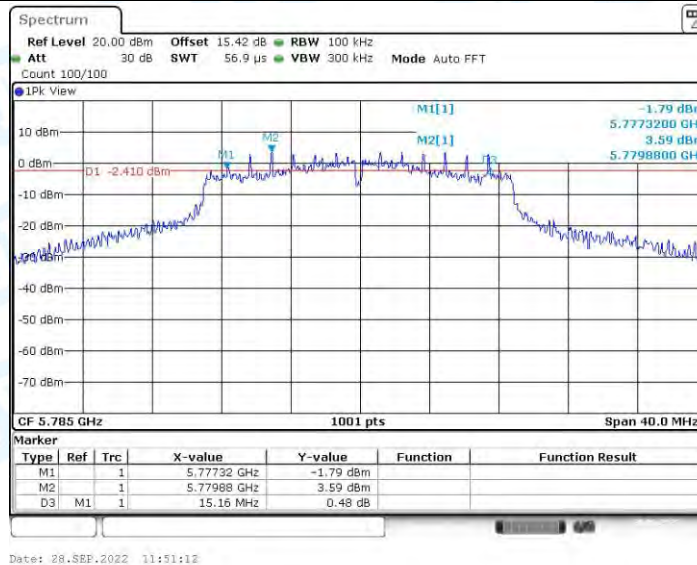
3.2. Test Graphs



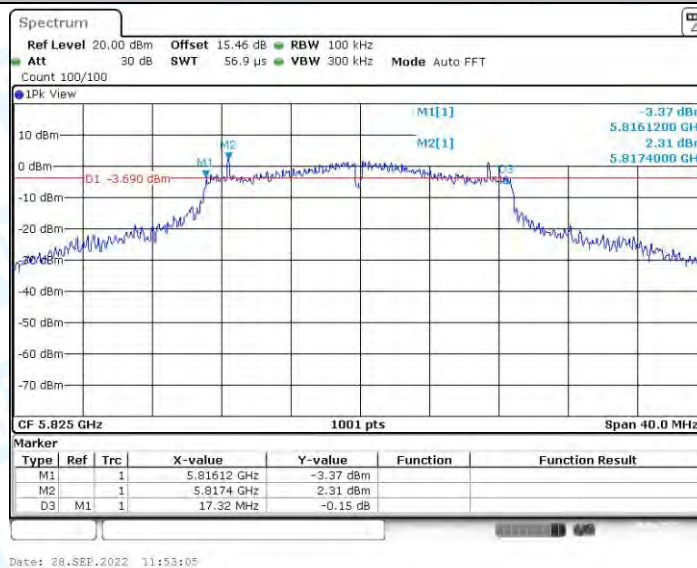
11N20SISO_Ant1_5745



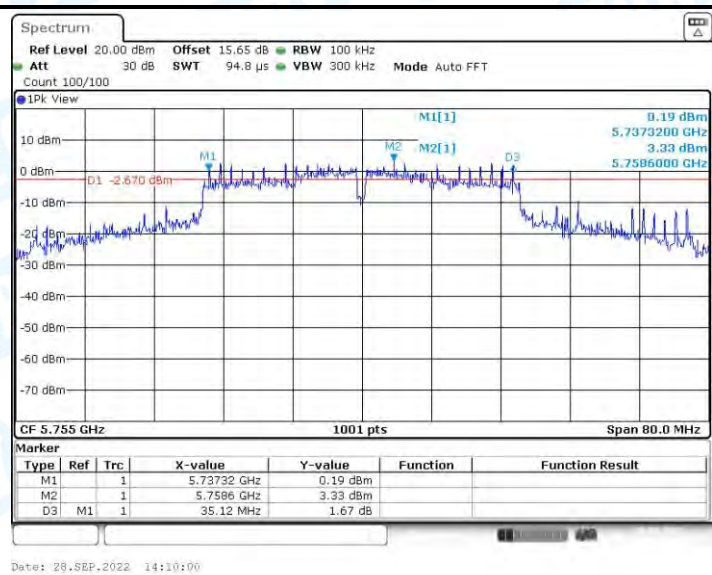
11N20SISO_Ant1_5785



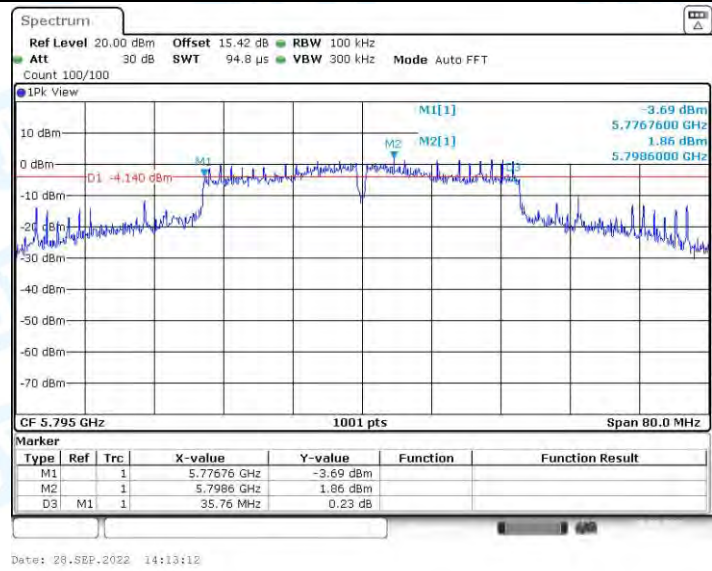
11N20SISO_Ant1_5825



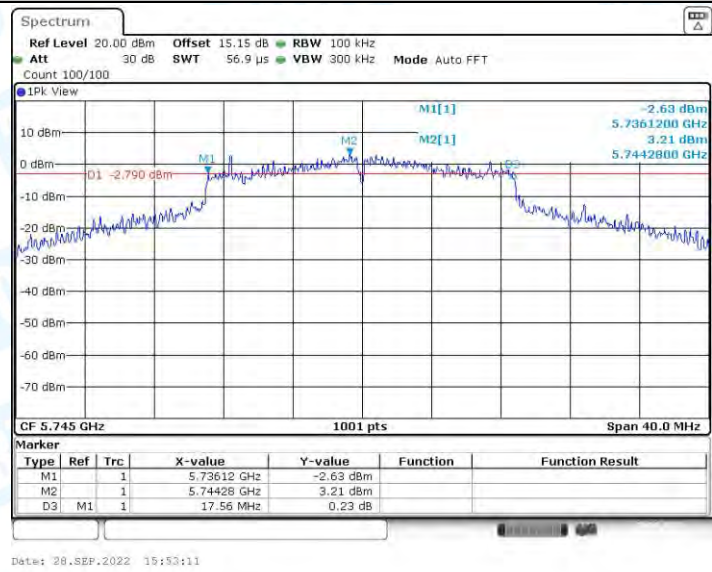
11N40SISO_Ant1_5755



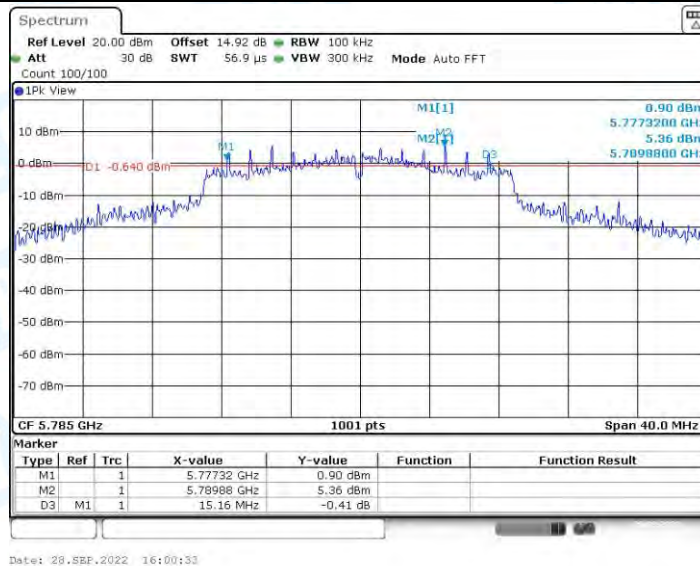
11N40SISO_Ant1_5795



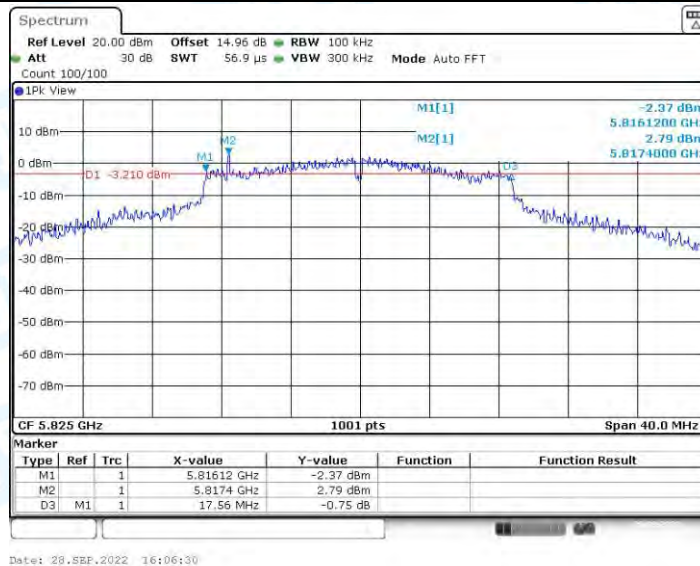
11AC20SISO_Ant1_5745



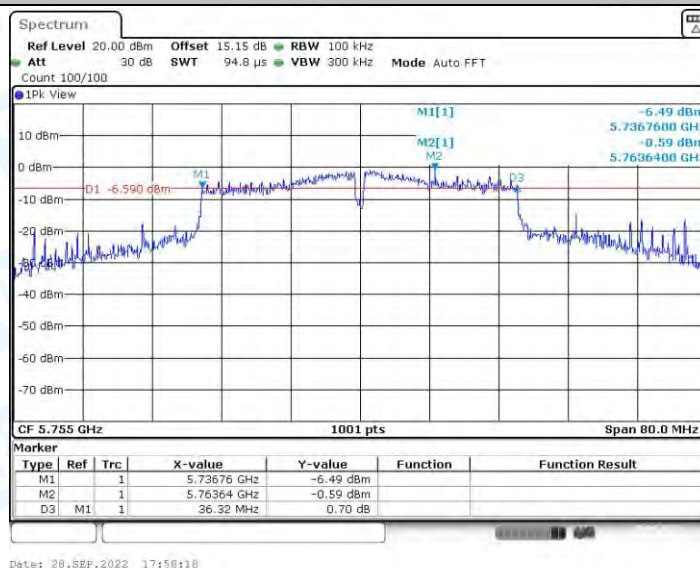
11AC20SISO_Ant1_5785



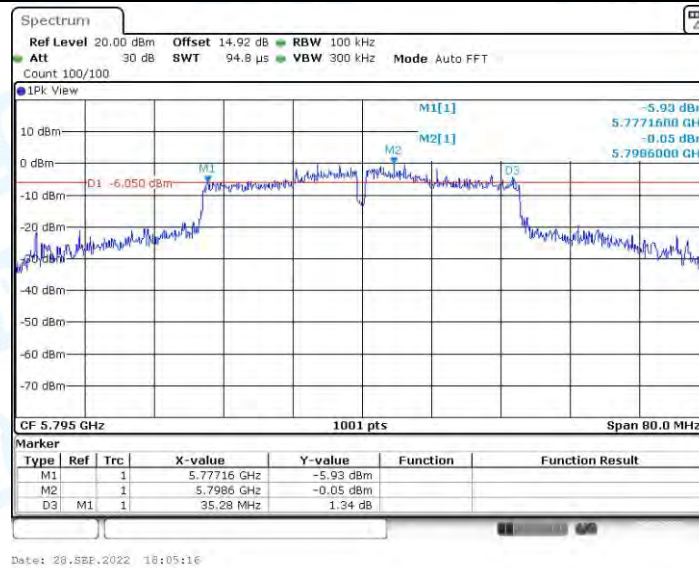
11AC20SISO_Ant1_5825



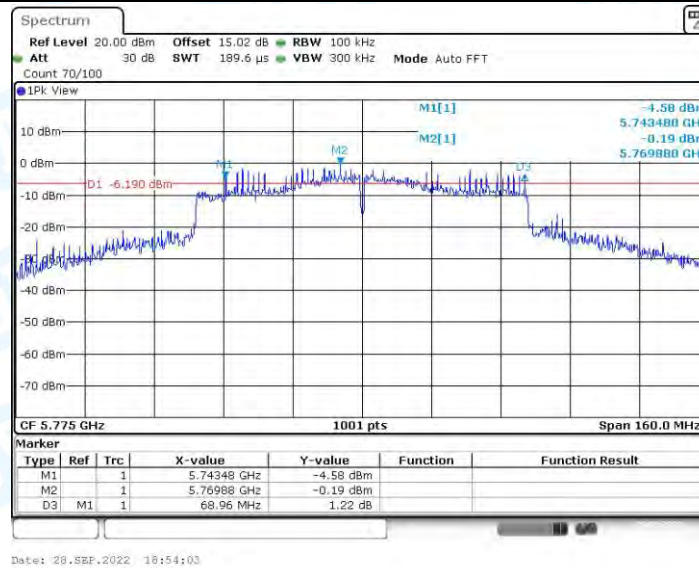
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



4. Maximum conducted output power

4.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	14.89	≤23.98	PASS
		5200	15.36	≤23.98	PASS
		5240	15.33	≤23.98	PASS
		5260	15.02	≤23.98	PASS
		5280	14.60	≤23.98	PASS
		5320	13.69	≤23.98	PASS
		5500	15.77	≤23.98	PASS
		5580	14.34	≤23.98	PASS
		5700	15.50	≤23.98	PASS
		5745	14.66	≤30.00	PASS
		5785	14.59	≤30.00	PASS
		5825	14.13	≤30.00	PASS
11N20SISO	Ant1	5180	14.76	≤23.98	PASS
		5200	12.81	≤23.98	PASS
		5240	12.86	≤23.98	PASS
		5260	12.44	≤23.98	PASS
		5280	11.89	≤23.98	PASS
		5320	13.60	≤23.98	PASS
		5500	15.69	≤23.98	PASS
		5580	9.93	≤23.98	PASS
		5700	11.69	≤23.98	PASS
		5745	14.53	≤30.00	PASS
		5785	14.29	≤30.00	PASS
		5825	14.03	≤30.00	PASS
11N40SISO	Ant1	5190	15.27	≤23.98	PASS
		5230	15.65	≤23.98	PASS
		5270	15.05	≤23.98	PASS
		5310	14.17	≤23.98	PASS
		5510	15.97	≤23.98	PASS
		5550	14.95	≤23.98	PASS
		5670	15.15	≤23.98	PASS
		5755	16.03	≤30.00	PASS
		5795	15.67	≤30.00	PASS
11AC20SISO	Ant1	5180	14.79	≤23.98	PASS
		5200	11.67	≤23.98	PASS
		5240	12.59	≤23.98	PASS
		5260	12.19	≤23.98	PASS
		5280	11.29	≤23.98	PASS
		5320	9.74	≤23.98	PASS
		5500	13.93	≤23.98	PASS
		5580	11.49	≤23.98	PASS

		5700	13.08	≤23.98	PASS
		5745	14.73	≤30.00	PASS
		5785	15.05	≤30.00	PASS
		5825	14.17	≤30.00	PASS
11AC40SISO	Ant1	5190	11.64	≤23.98	PASS
		5230	12.78	≤23.98	PASS
		5270	12.08	≤23.98	PASS
		5310	10.37	≤23.98	PASS
		5510	13.97	≤23.98	PASS
		5550	12.65	≤23.98	PASS
		5670	12.39	≤23.98	PASS
		5755	14.43	≤30.00	PASS
		5795	14.23	≤30.00	PASS
11AC80SISO	Ant1	5210	12.28	≤23.98	PASS
		5290	11.13	≤23.98	PASS
		5610	13.92	≤23.98	PASS
		5775	14.96	≤30.00	PASS

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

5. Maximum power spectral density

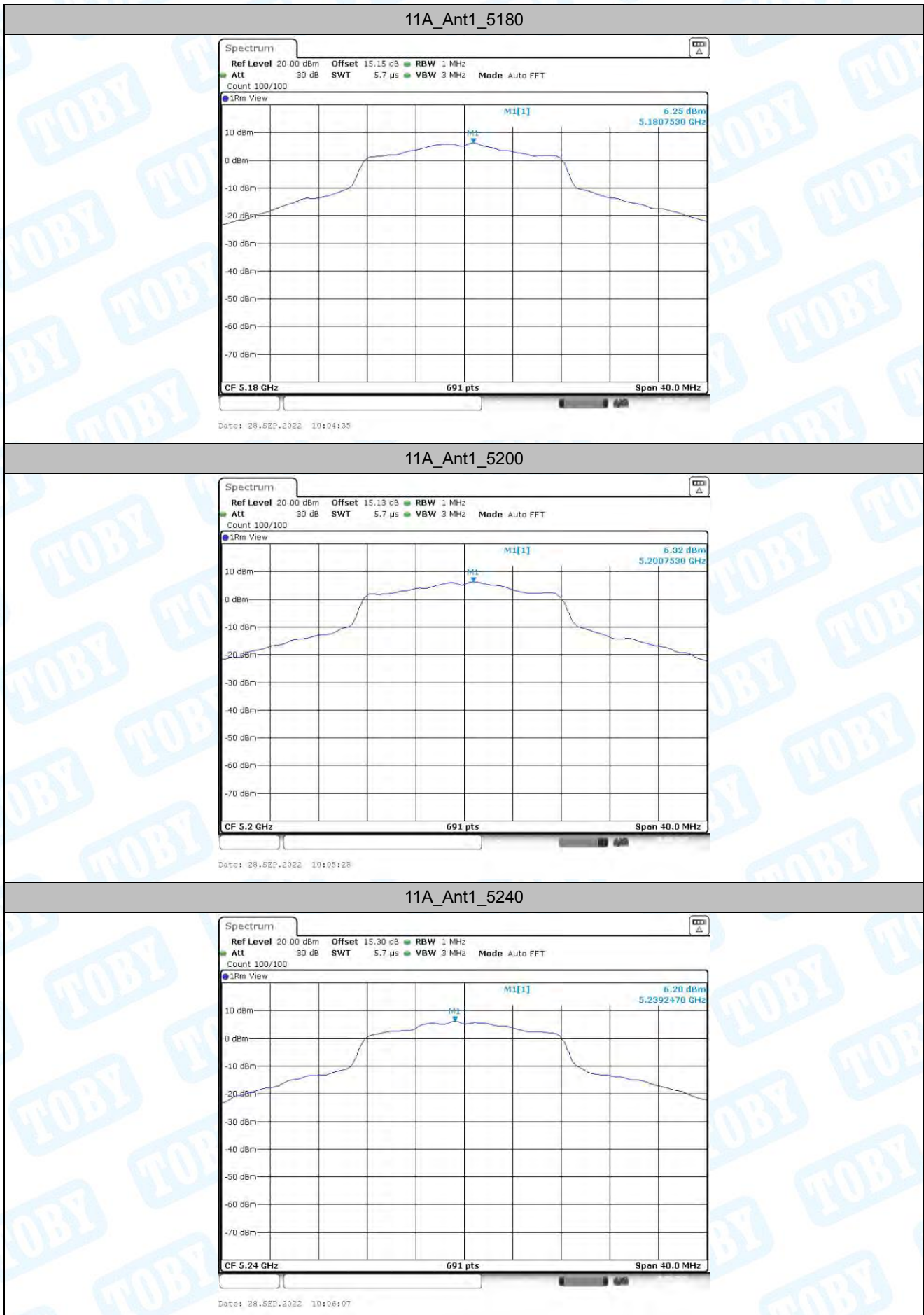
5.1. Test Result

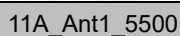
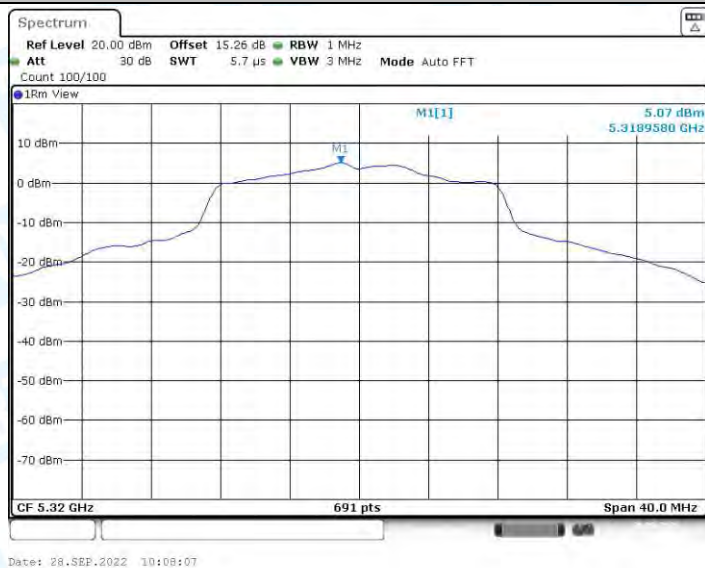
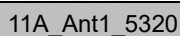
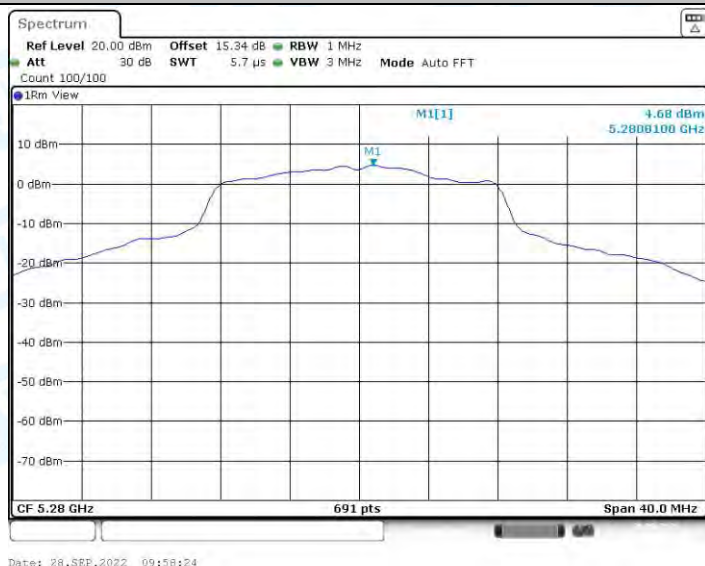
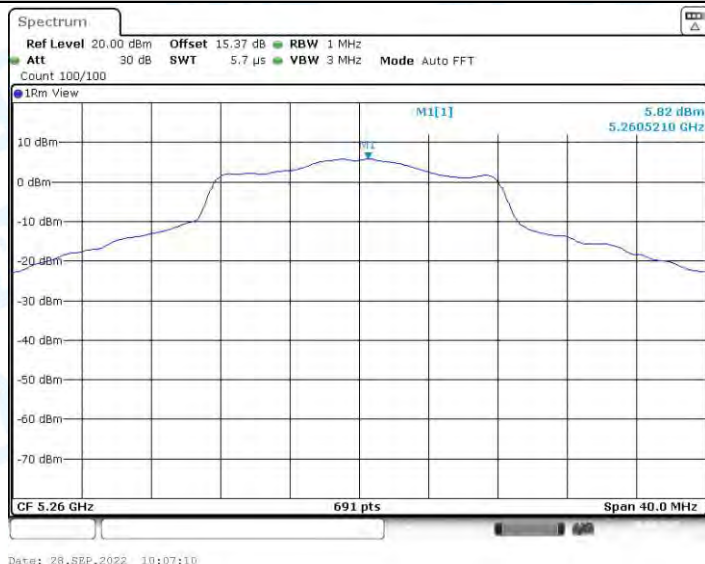
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.25	≤11.00	PASS
		5200	6.32	≤11.00	PASS
		5240	6.2	≤11.00	PASS
		5260	5.82	≤11.00	PASS
		5280	4.68	≤11.00	PASS
		5320	5.07	≤11.00	PASS
		5500	7.18	≤11.00	PASS
		5580	5.59	≤11.00	PASS
		5700	6.05	≤11.00	PASS
		5745	3.14	≤30.00	PASS
		5785	1.96	≤30.00	PASS
		5825	2.34	≤30.00	PASS
11N20SISO	Ant1	5180	6.03	≤11.00	PASS
		5200	3.68	≤11.00	PASS
		5240	3.47	≤11.00	PASS
		5260	2.55	≤11.00	PASS
		5280	1.97	≤11.00	PASS
		5320	4.58	≤11.00	PASS
		5500	7.24	≤11.00	PASS
		5580	0.34	≤11.00	PASS
		5700	1.98	≤11.00	PASS
		5745	2.38	≤30.00	PASS
		5785	1.43	≤30.00	PASS
		5825	1.73	≤30.00	PASS
11N40SISO	Ant1	5190	3.06	≤11.00	PASS
		5230	3.46	≤11.00	PASS
		5270	2.74	≤11.00	PASS
		5310	2.45	≤11.00	PASS
		5510	4.8	≤11.00	PASS
		5550	3.5	≤11.00	PASS
		5670	2.26	≤11.00	PASS
		5755	1.12	≤30.00	PASS
		5795	0.39	≤30.00	PASS
11AC20SISO	Ant1	5180	6.05	≤11.00	PASS
		5200	1.71	≤11.00	PASS
		5240	2.83	≤11.00	PASS
		5260	2.68	≤11.00	PASS
		5280	1.16	≤11.00	PASS
		5320	-0.09	≤11.00	PASS
		5500	5.22	≤11.00	PASS
		5580	2.33	≤11.00	PASS

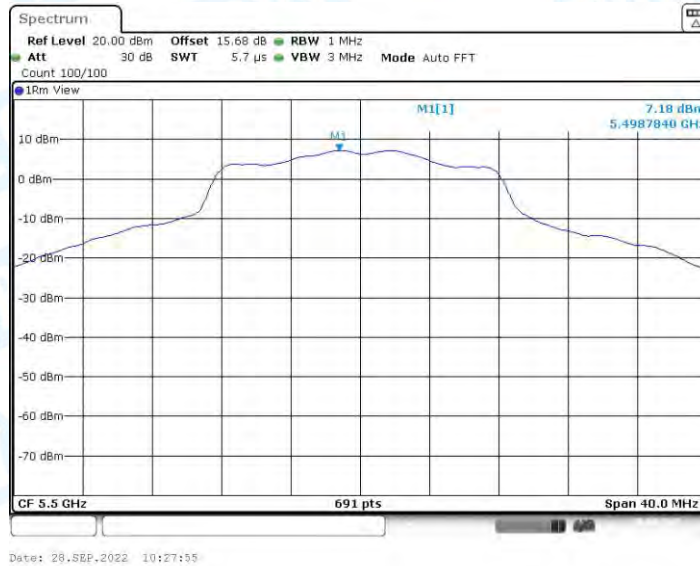
		5700	3.33	≤11.00	PASS
		5745	2.49	≤30.00	PASS
		5785	3.28	≤30.00	PASS
		5825	2.27	≤30.00	PASS
11AC40SISO	Ant1	5190	-0.75	≤11.00	PASS
		5230	0.66	≤11.00	PASS
		5270	-0.51	≤11.00	PASS
		5310	-2.39	≤11.00	PASS
		5510	2.29	≤11.00	PASS
		5550	1.24	≤11.00	PASS
		5670	0.32	≤11.00	PASS
		5755	-0.61	≤30.00	PASS
		5795	-0.97	≤30.00	PASS
11AC80SISO	Ant1	5210	-2.87	≤11.00	PASS
		5290	-4.45	≤11.00	PASS
		5610	-1.87	≤11.00	PASS
		5775	-2.38	≤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.

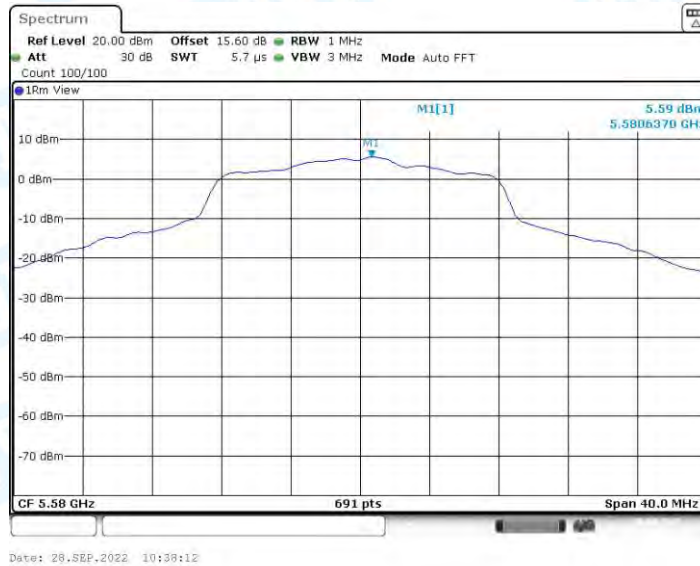
5.2. Test Graphs







11A_Ant1_5580



11A_Ant1_5700



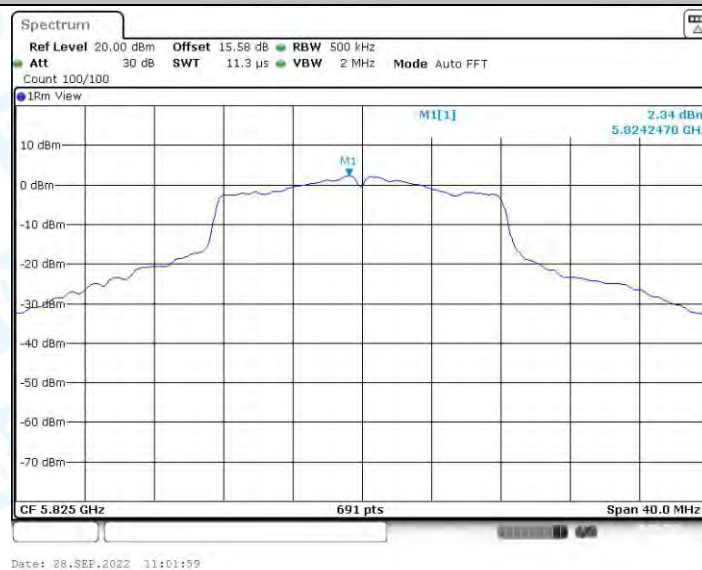
11A_Ant1_5745



11A_Ant1_5785



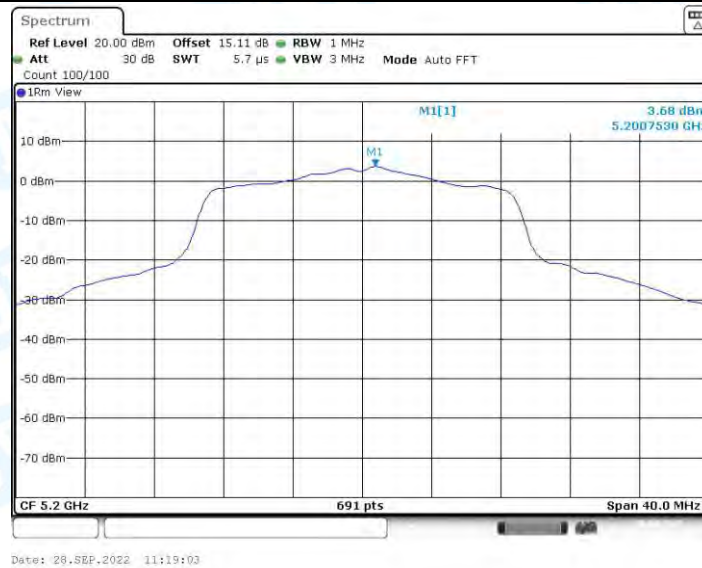
11A_Ant1_5825



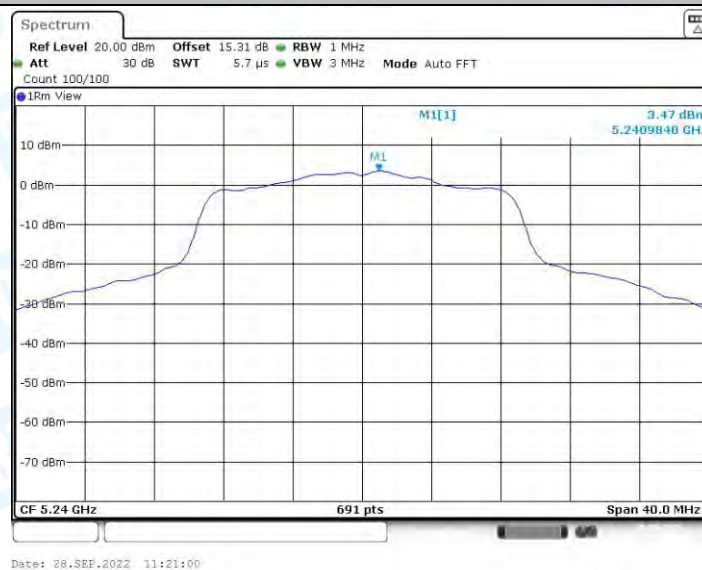
11N20SISO_Ant1_5180



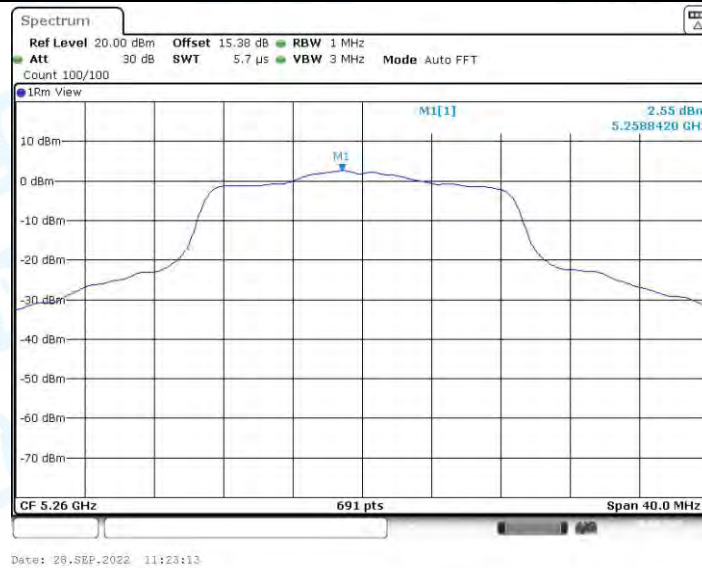
11N20SISO_Ant1_5200



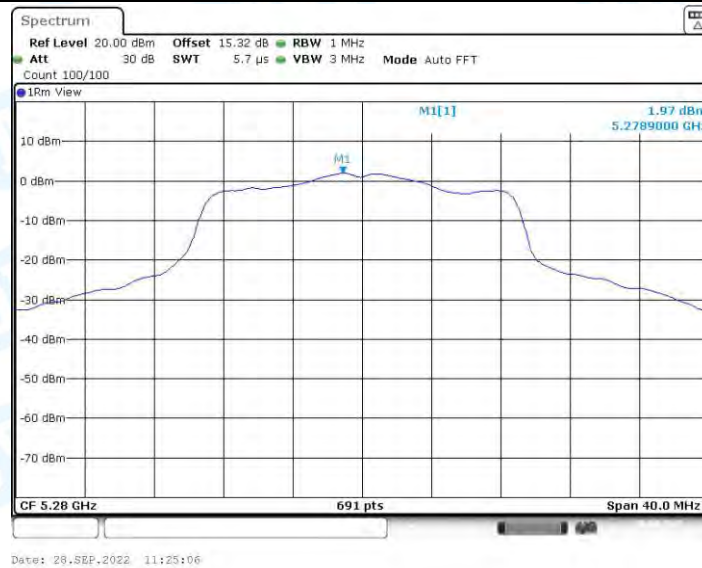
11N20SISO_Ant1_5240



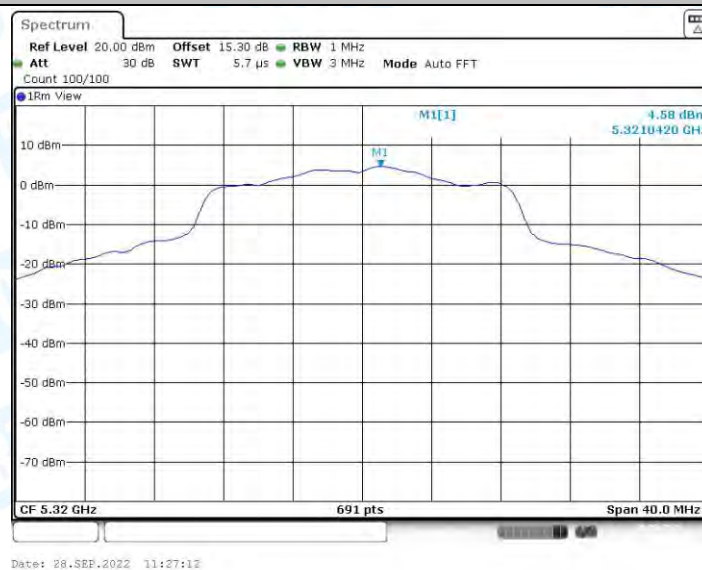
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



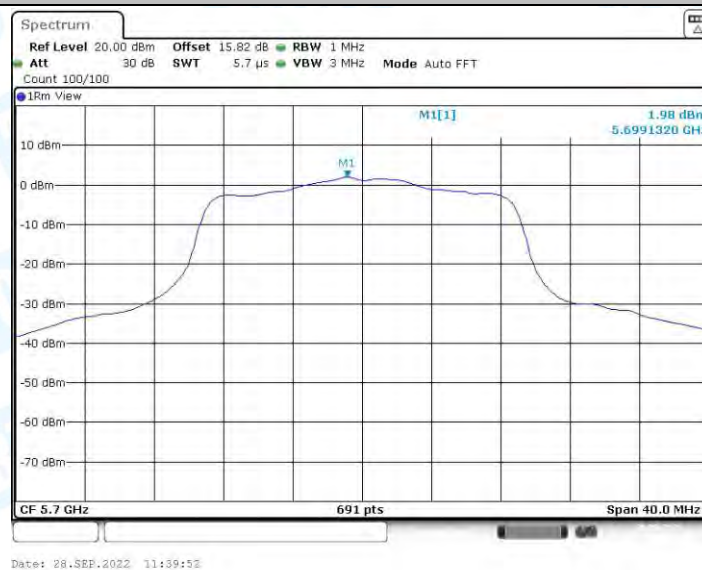
11N20SISO_Ant1_5500



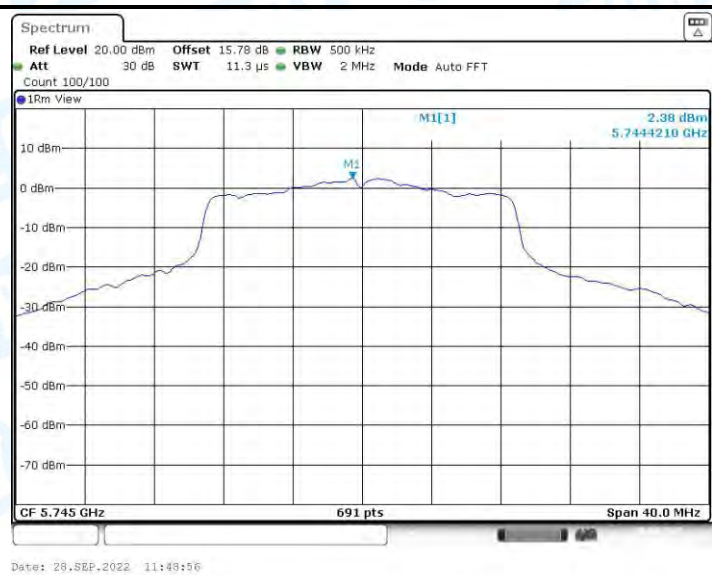
11N20SISO_Ant1_5580



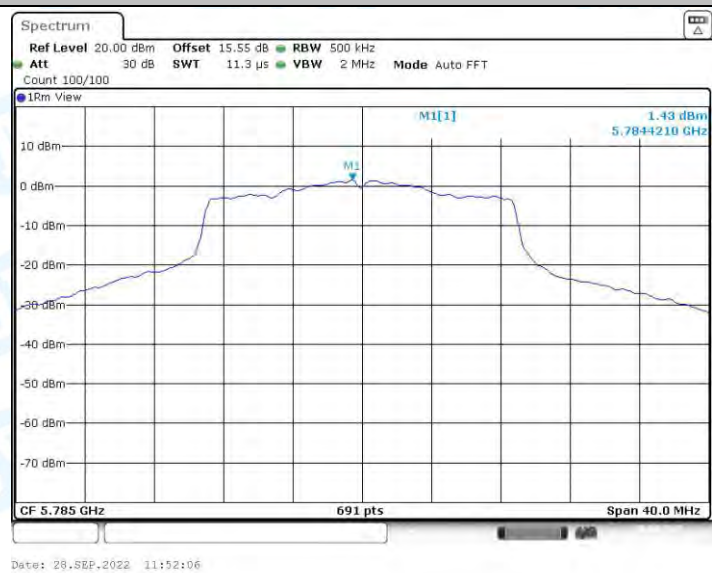
11N20SISO_Ant1_5700



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



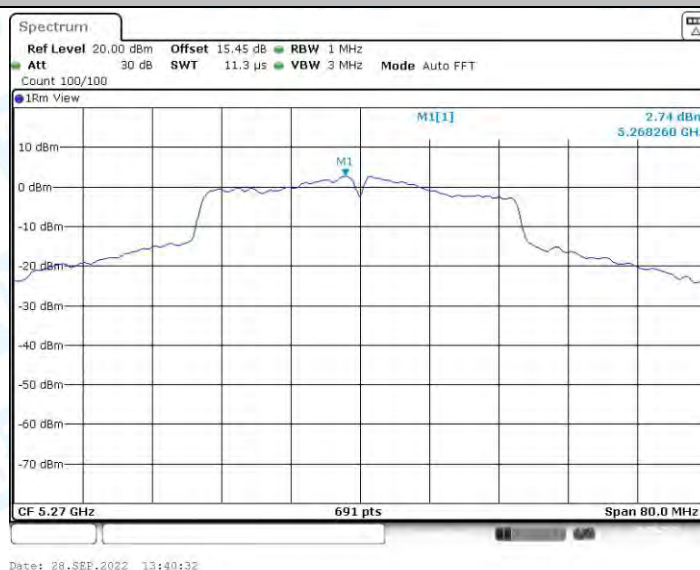
11N40SISO_Ant1_5190



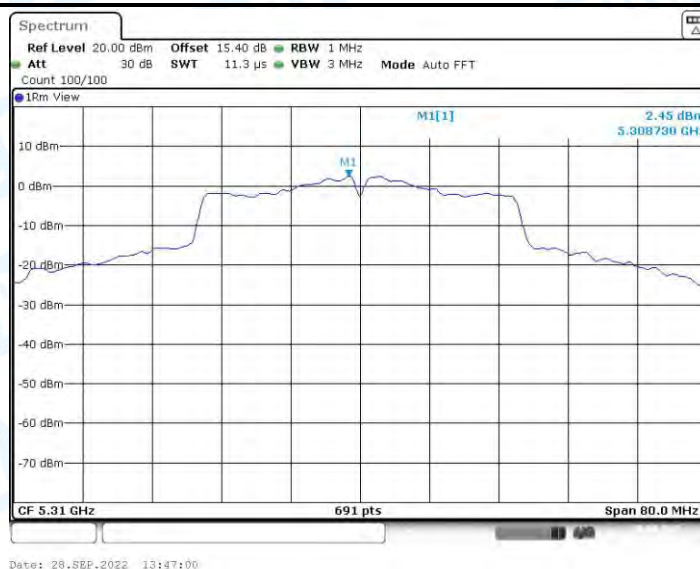
11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



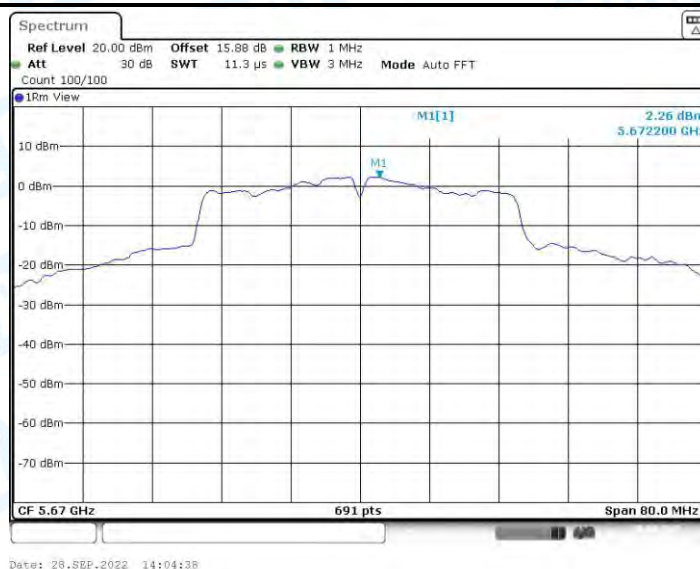
11N40SISO_Ant1_5510



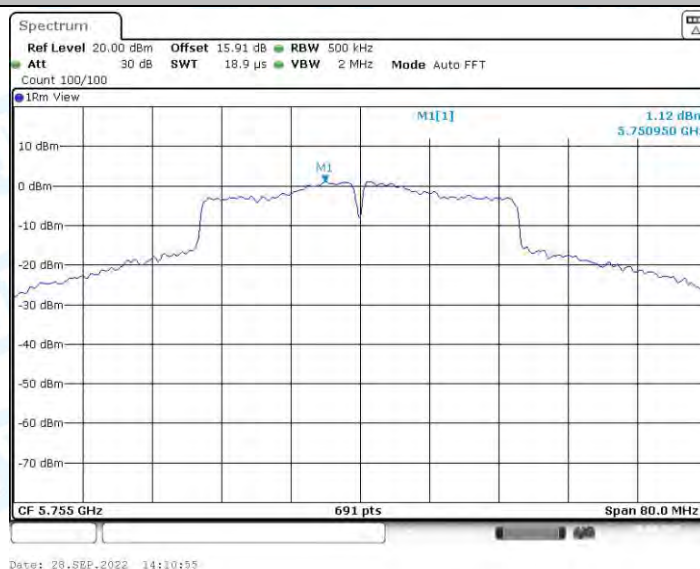
11N40SISO_Ant1_5550



11N40SISO_Ant1_5670



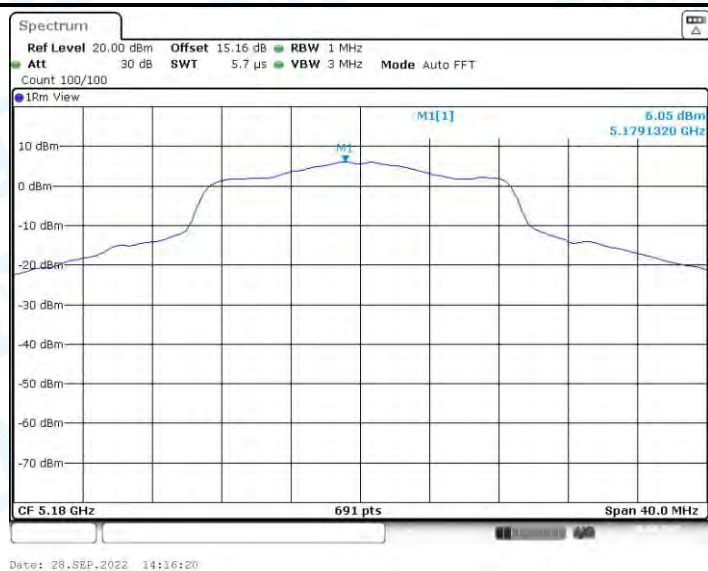
11N40SISO_Ant1_5755



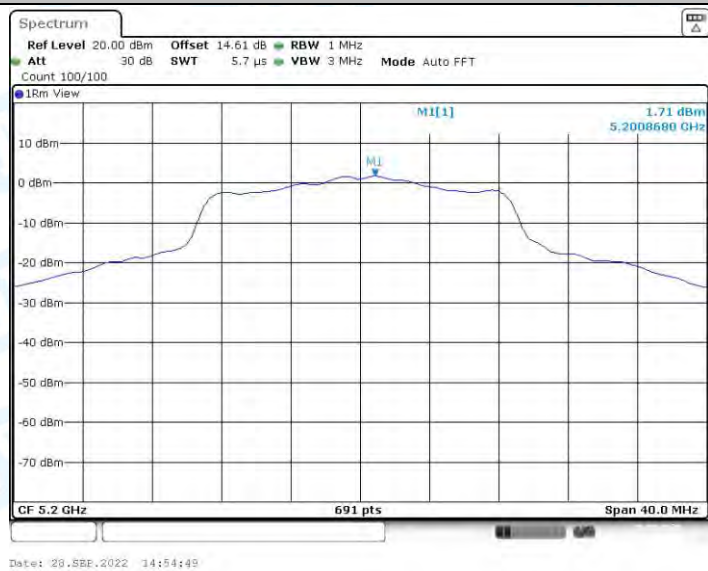
11N40SISO_Ant1_5795



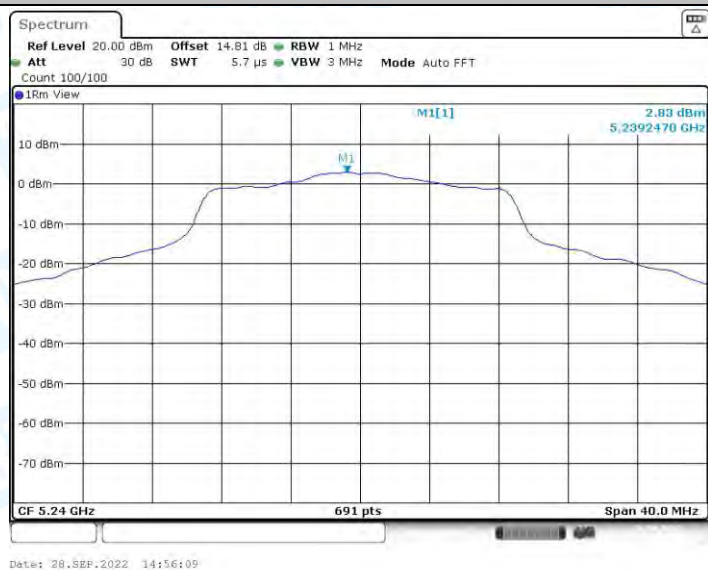
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



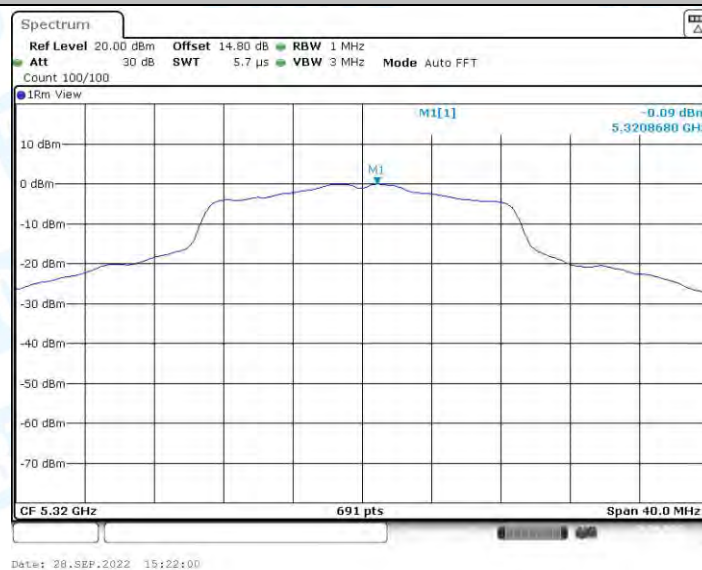
11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700



11AC20SISO_Ant1_5745