

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

General Description of EUT	
Product Name:	WiFi & BT combo module
Test Model:	EWN-8822CSS3AH
Sample ID:	202206-0044-01-02#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.3V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202206-0044-23	

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1. Emission Bandwidth

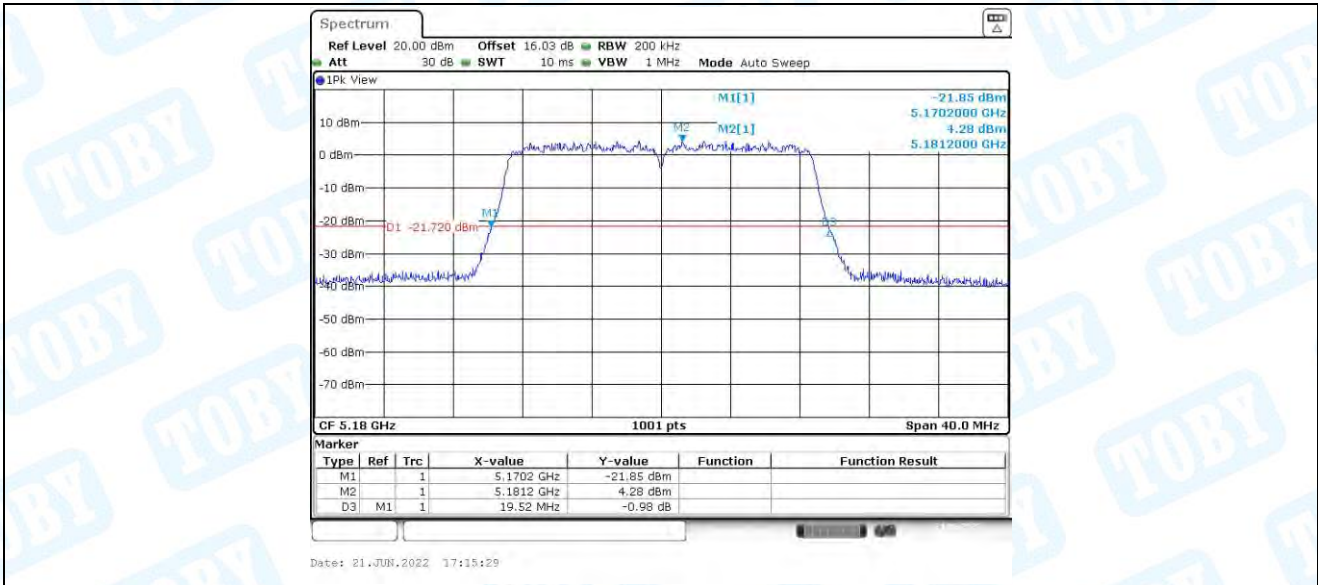
1.1. Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict	
11A	Ant1	5180	19.52	5170.20	5189.72	---	---	
	Ant2	5180	19.48	5170.20	5189.68	---	---	
	Ant1	5220	19.60	5210.12	5229.72	---	---	
	Ant2	5220	19.56	5210.12	5229.68	---	---	
	Ant1	5240	19.60	5230.16	5249.76	---	---	
	Ant2	5240	18.48	5230.76	5249.24	---	---	
	Ant1	5260	19.56	5250.16	5269.72	---	---	
	Ant2	5260	18.60	5250.68	5269.28	---	---	
	Ant1	5300	19.52	5290.20	5309.72	---	---	
	Ant2	5300	18.56	5290.72	5309.28	---	---	
	Ant1	5320	19.56	5310.16	5329.72	---	---	
	Ant2	5320	18.64	5310.64	5329.28	---	---	
	Ant1	5500	19.56	5490.16	5509.72	---	---	
	Ant2	5500	18.60	5490.68	5509.28	---	---	
	Ant1	5580	19.60	5570.12	5589.72	---	---	
	Ant2	5580	18.60	5570.68	5589.28	---	---	
	11N20MIMO	Ant1	5180	19.52	5170.20	5189.72	---	---
		Ant2	5180	19.44	5170.16	5189.60	---	---
Ant1		5220	19.56	5210.20	5229.76	---	---	
Ant2		5220	19.60	5210.16	5229.76	---	---	
Ant1		5240	19.52	5230.20	5249.72	---	---	
Ant2		5240	19.32	5230.48	5249.80	---	---	
Ant1		5260	19.48	5250.24	5269.72	---	---	
Ant2		5260	19.32	5250.40	5269.72	---	---	
Ant1		5300	19.56	5290.20	5309.76	---	---	
Ant2		5300	19.44	5290.20	5309.64	---	---	
Ant1		5320	19.52	5310.16	5329.68	---	---	
Ant2		5320	19.56	5310.12	5329.68	---	---	
Ant1		5500	19.56	5490.12	5509.68	---	---	
Ant2		5500	19.44	5490.24	5509.68	---	---	
Ant1		5580	19.60	5570.16	5589.76	---	---	
Ant2		5580	19.76	5570.16	5589.92	---	---	
11N40MIMO		Ant1	5190	42.16	5168.96	5211.12	---	---
		Ant2	5190	41.84	5168.80	5210.64	---	---
	Ant1	5230	42.24	5208.88	5251.12	---	---	
	Ant2	5230	42.80	5208.96	5251.76	---	---	
	Ant1	5270	42.08	5248.88	5290.96	---	---	

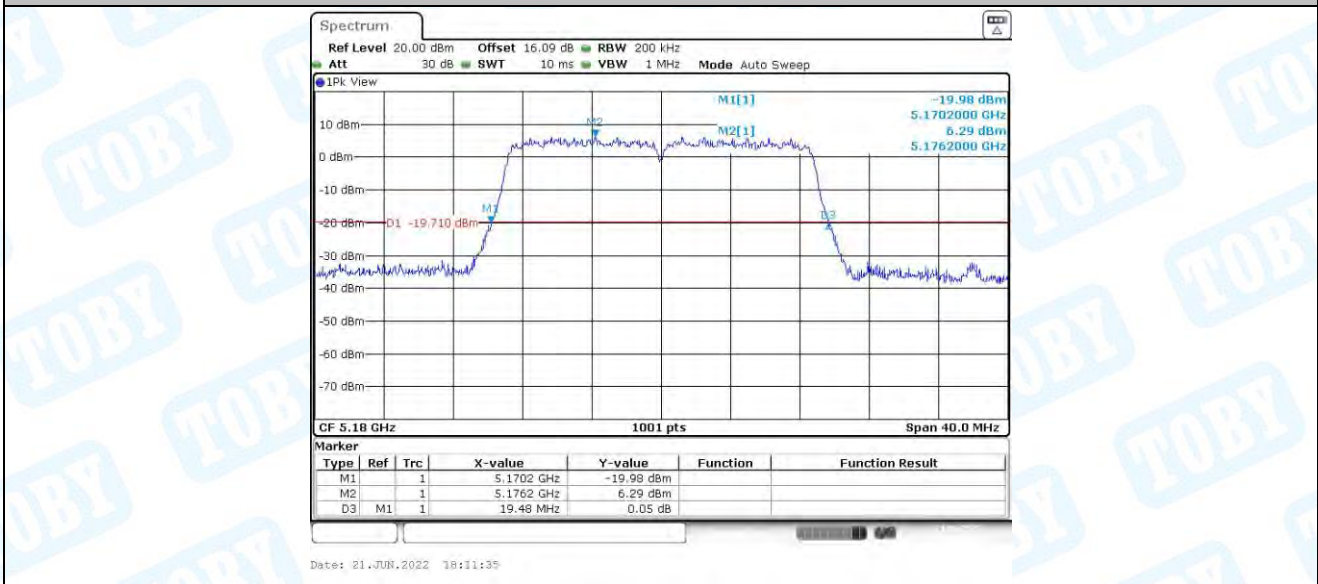
	Ant2	5270	41.36	5249.20	5290.56	---	---
	Ant1	5310	41.92	5289.04	5330.96	---	---
	Ant2	5310	41.52	5288.80	5330.32	---	---
	Ant1	5510	42.24	5488.80	5531.04	---	---
	Ant2	5510	41.36	5488.80	5530.16	---	---
	Ant1	5550	50.08	5520.88	5570.96	---	---
	Ant2	5550	41.60	5528.80	5570.40	---	---
	Ant1	5670	42.40	5648.80	5691.20	---	---
	Ant2	5670	41.68	5648.64	5690.32	---	---
11AC20MIMO	Ant1	5180	19.52	5170.20	5189.72	---	---
	Ant2	5180	19.40	5170.20	5189.60	---	---
	Ant1	5220	19.52	5210.20	5229.72	---	---
	Ant2	5220	20.84	5210.16	5231.00	---	---
	Ant1	5240	19.52	5230.20	5249.72	---	---
	Ant2	5240	19.44	5230.40	5249.84	---	---
	Ant1	5260	19.48	5250.20	5269.68	---	---
	Ant2	5260	19.40	5250.36	5269.76	---	---
	Ant1	5300	19.48	5290.24	5309.72	---	---
	Ant2	5300	19.44	5290.20	5309.64	---	---
	Ant1	5320	19.48	5310.24	5329.72	---	---
	Ant2	5320	19.48	5310.16	5329.64	---	---
	Ant1	5500	19.56	5490.16	5509.72	---	---
	Ant2	5500	19.36	5490.32	5509.68	---	---
	Ant1	5580	19.48	5570.24	5589.72	---	---
	Ant2	5580	19.96	5570.00	5589.96	---	---
	Ant1	5700	19.48	5690.16	5709.64	---	---
	Ant2	5700	19.36	5690.40	5709.76	---	---
11AC40MIMO	Ant1	5190	42.40	5168.72	5211.12	---	---
	Ant2	5190	42.56	5168.08	5210.64	---	---
	Ant1	5230	42.96	5208.24	5251.20	---	---
	Ant2	5230	42.72	5208.72	5251.44	---	---
	Ant1	5270	42.48	5248.48	5290.96	---	---
	Ant2	5270	41.04	5249.60	5290.64	---	---
	Ant1	5310	42.32	5288.72	5331.04	---	---
	Ant2	5310	42.24	5288.08	5330.32	---	---
	Ant1	5510	43.04	5488.08	5531.12	---	---
	Ant2	5510	41.68	5488.64	5530.32	---	---
	Ant1	5550	42.32	5528.72	5571.04	---	---
	Ant2	5550	42.24	5528.16	5570.40	---	---
11AC80MIMO	Ant1	5210	82.56	5169.04	5251.60	---	---
	Ant2	5210	83.04	5168.56	5251.60	---	---
	Ant1	5290	82.56	5249.04	5331.60	---	---
	Ant2	5290	81.12	5249.20	5330.32	---	---
	Ant1	5530	82.72	5489.04	5571.76	---	---

Ant2	5530	81.60	5488.72	5570.32	---	---
Ant1	5610	82.24	5569.04	5651.28	---	---
Ant2	5610	91.20	5570.00	5661.20	---	---

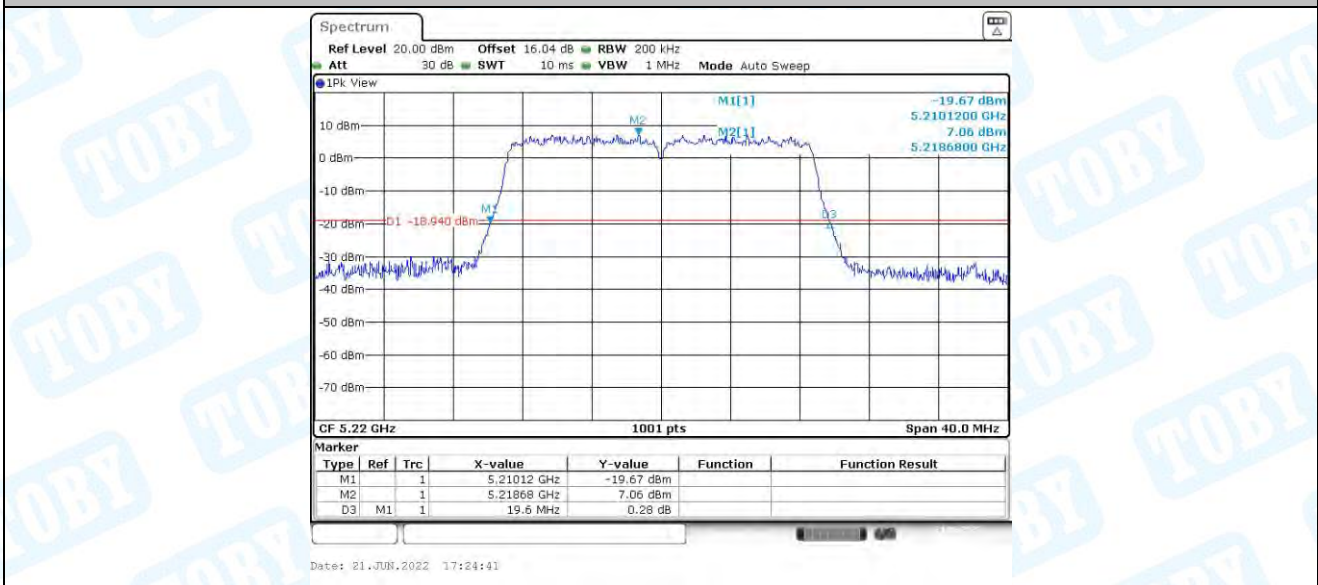
2.1. Test Graphs



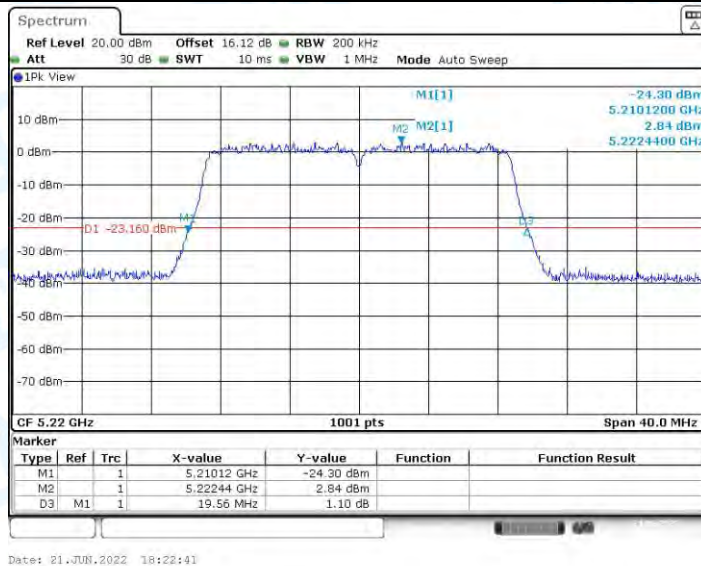
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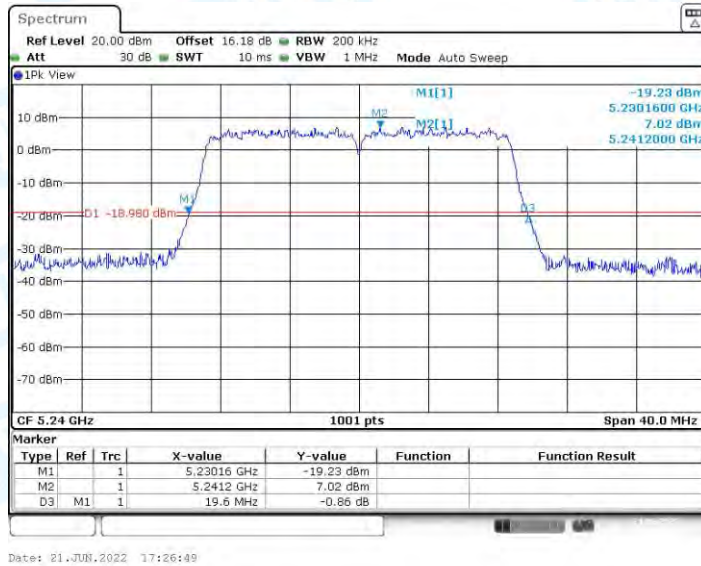
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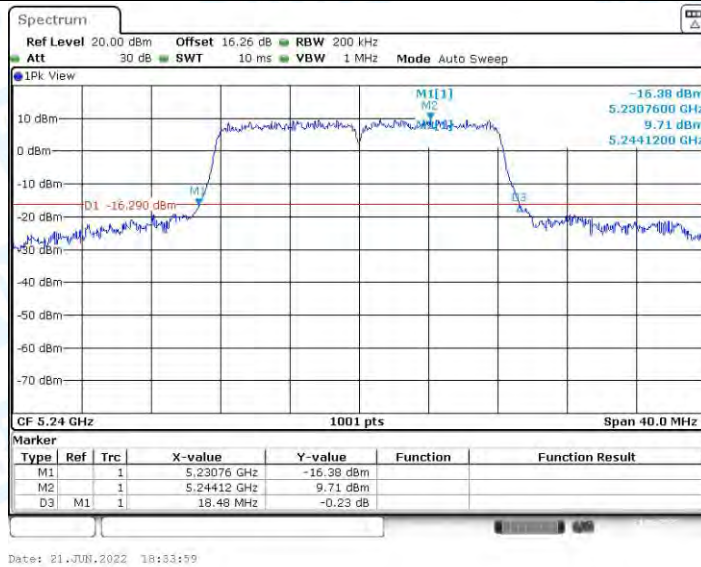
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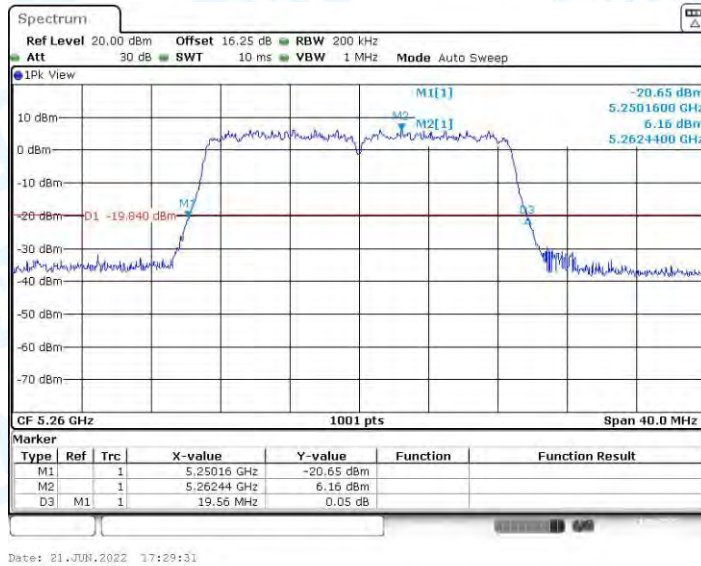
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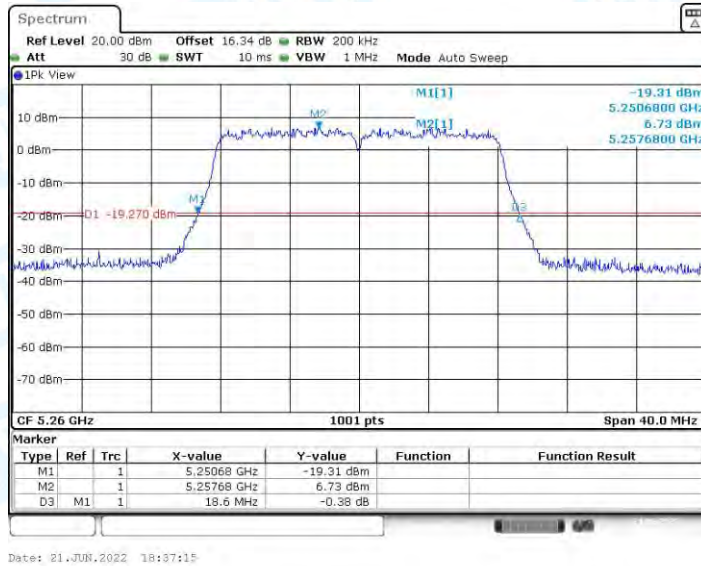
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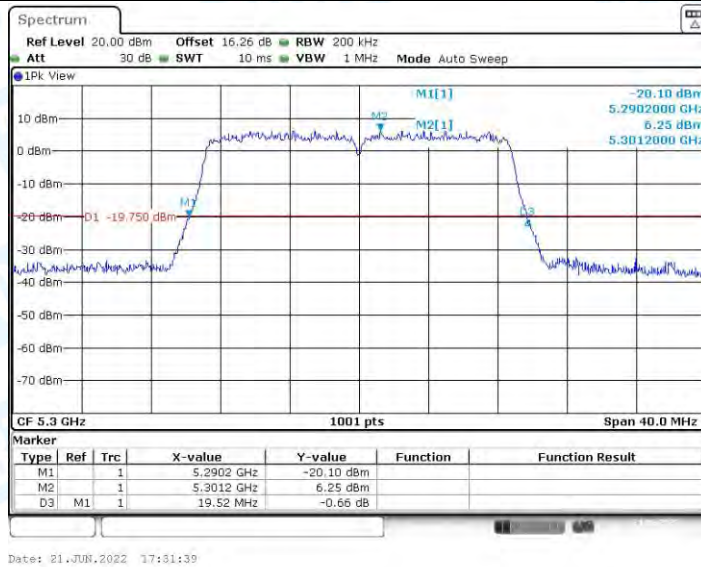
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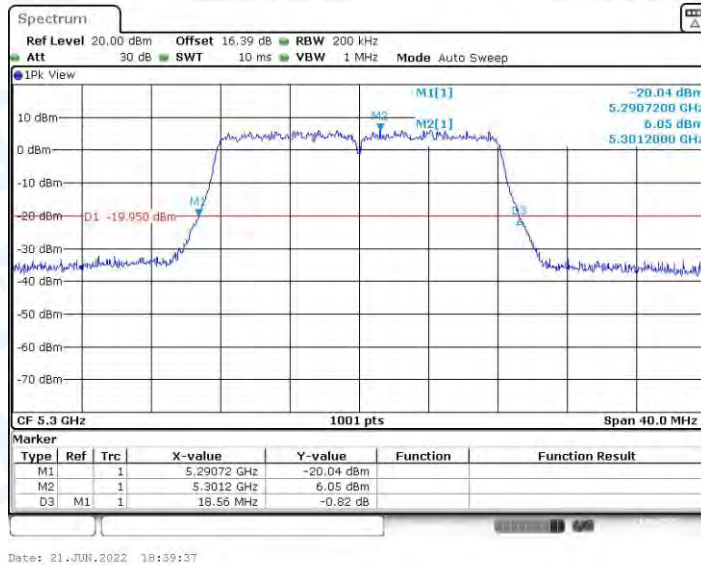
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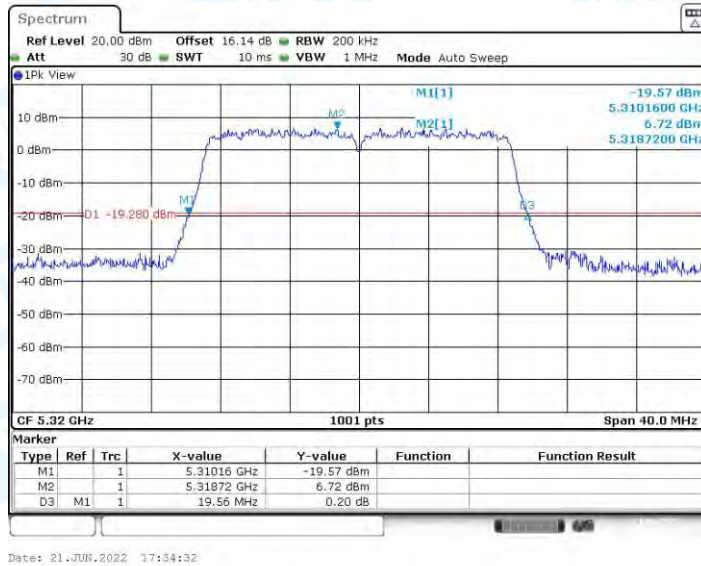
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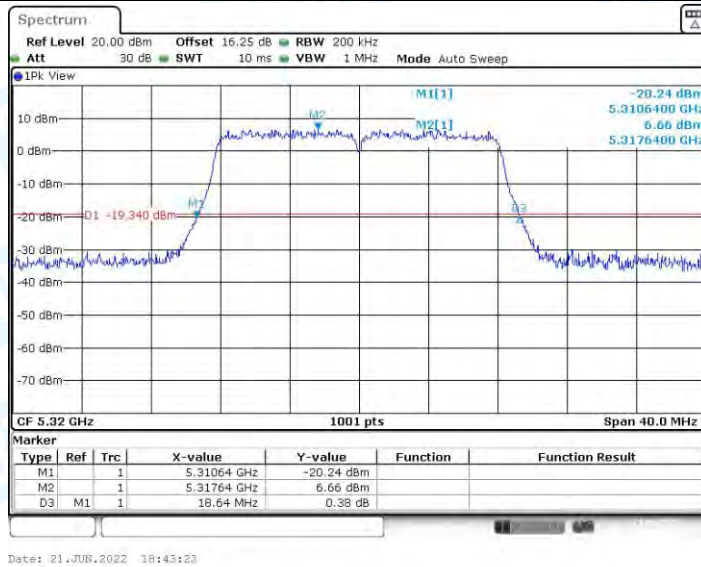
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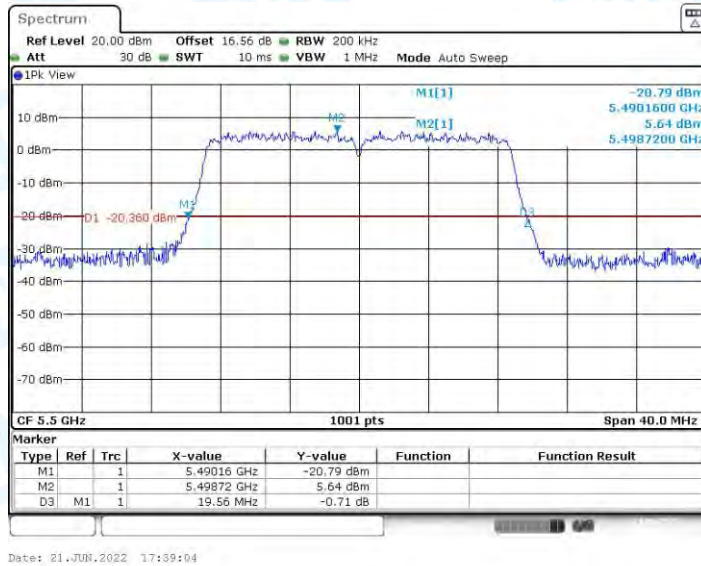
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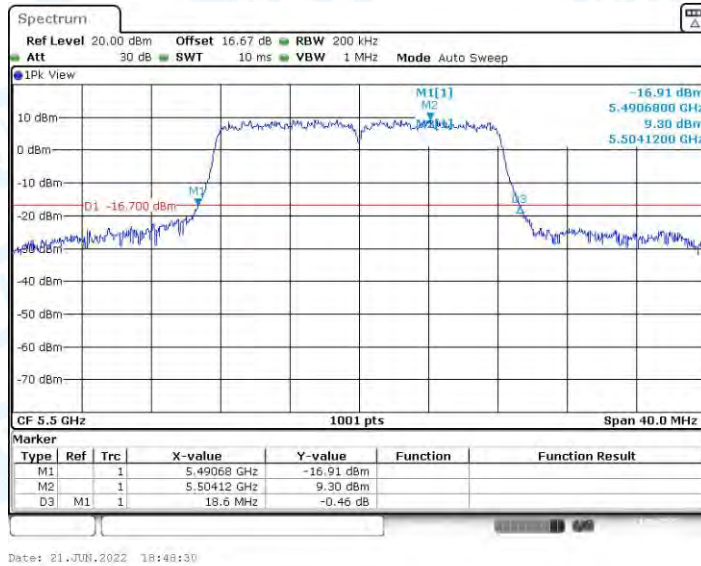
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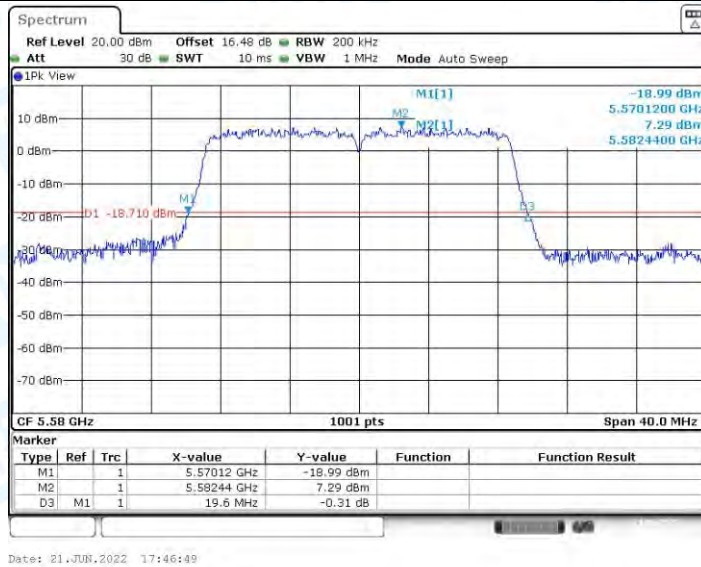
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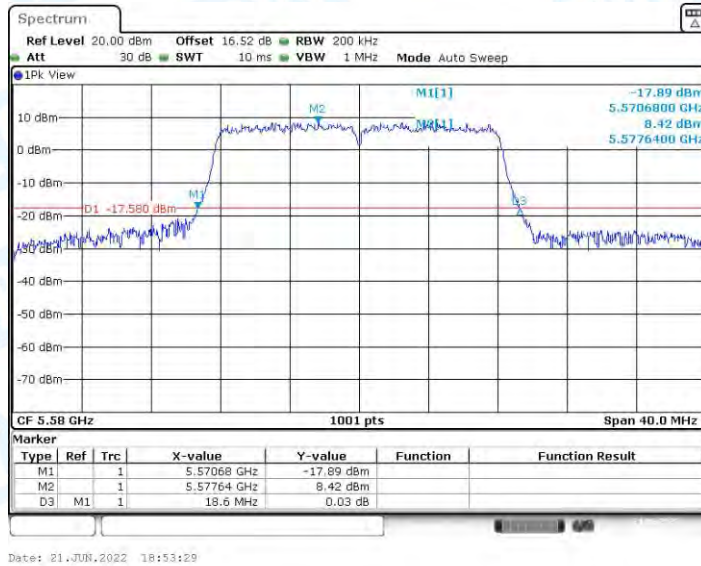
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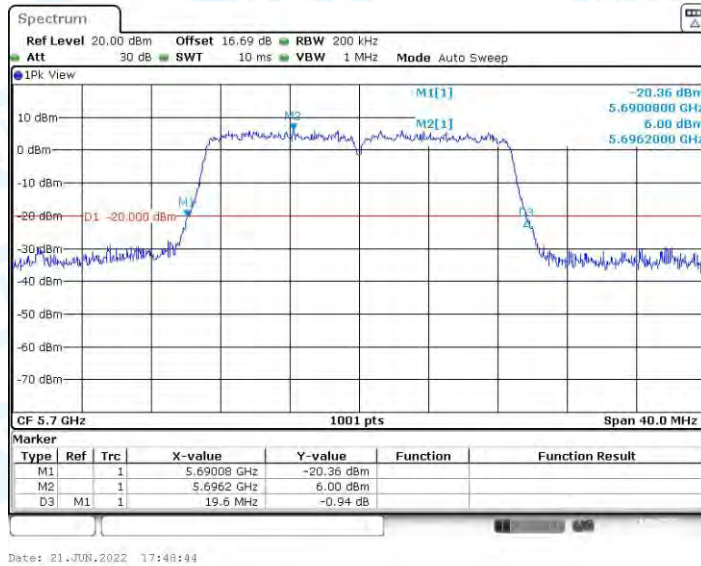
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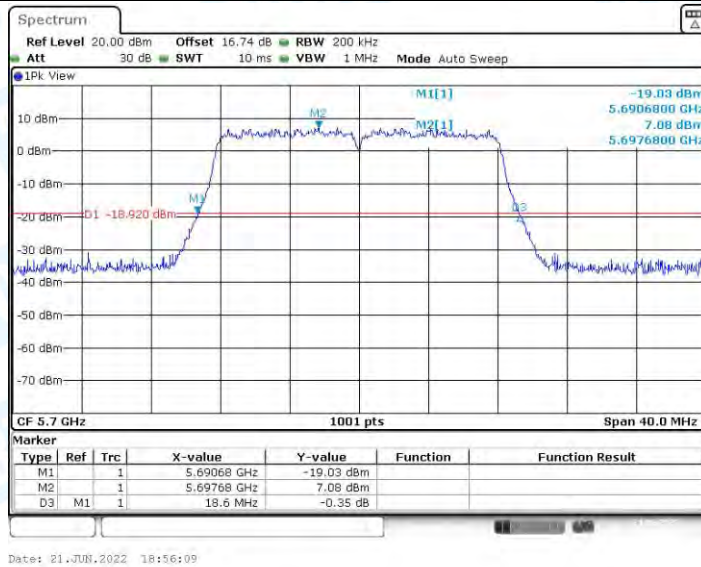
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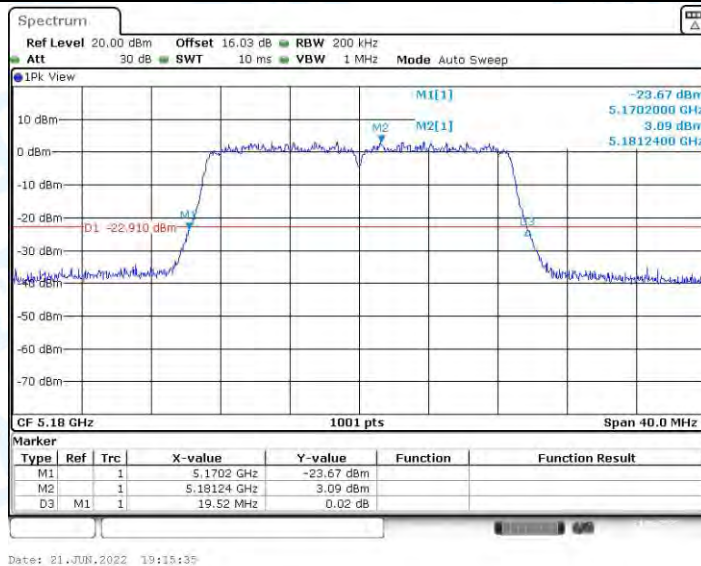
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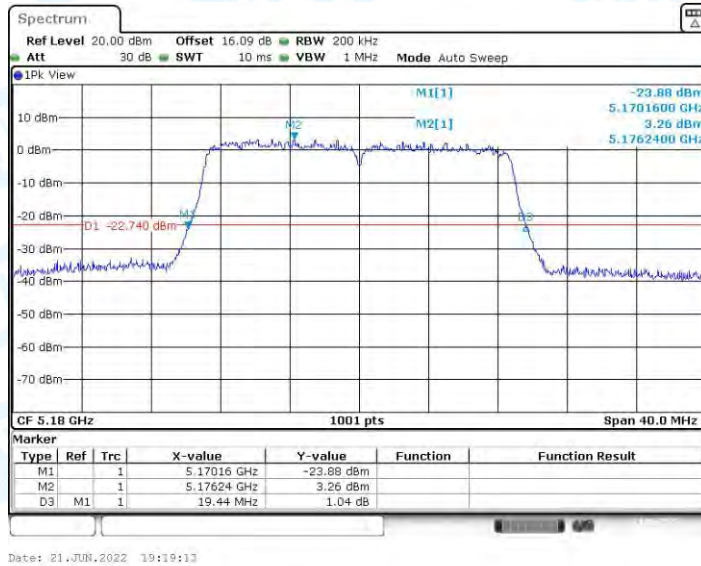
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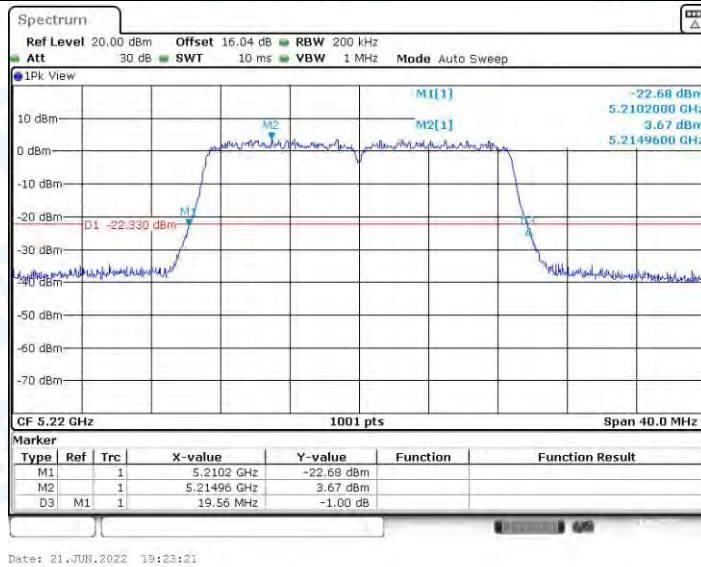
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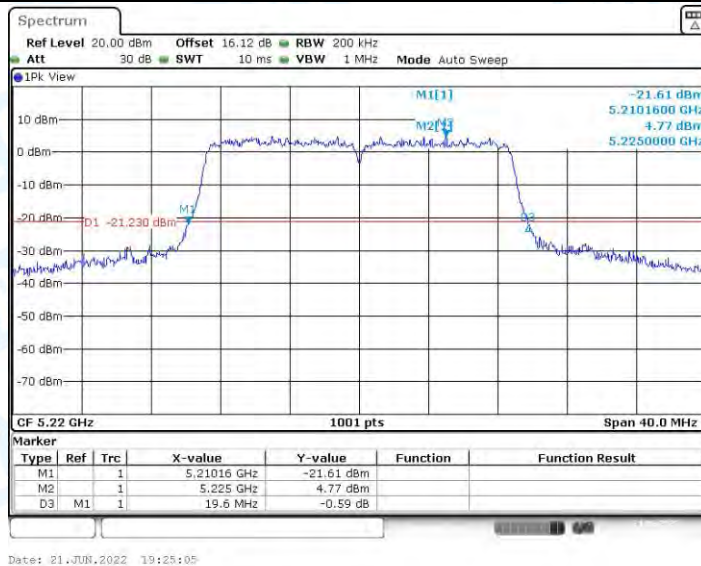
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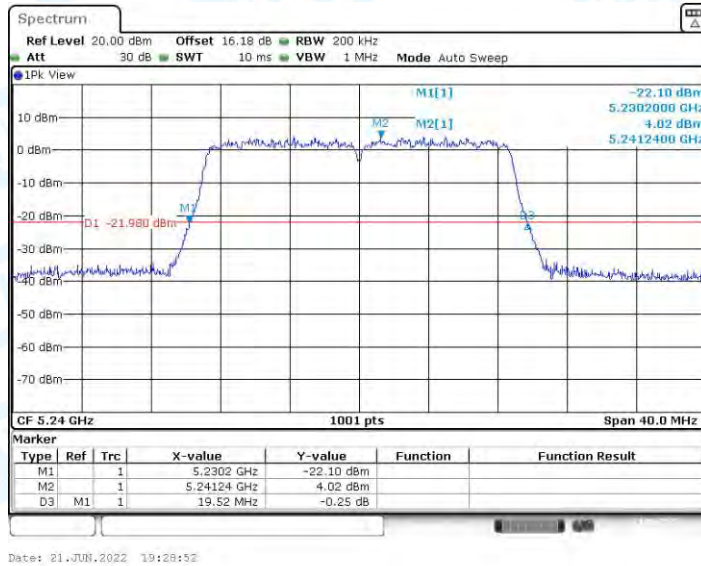
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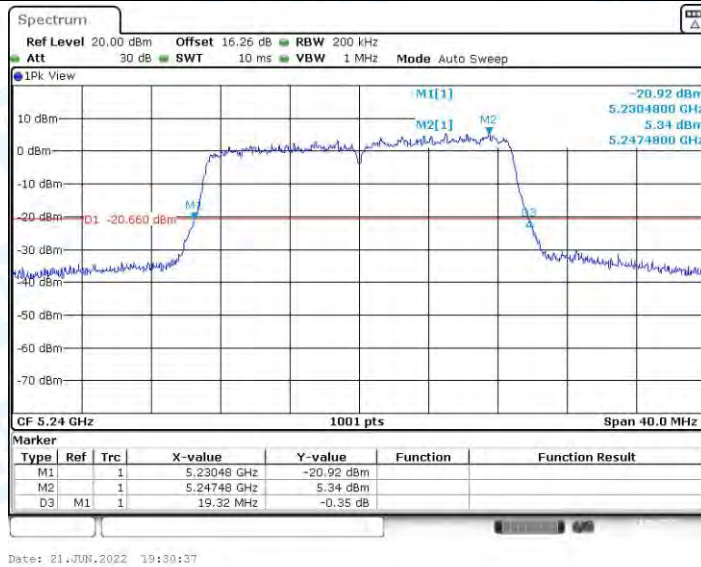
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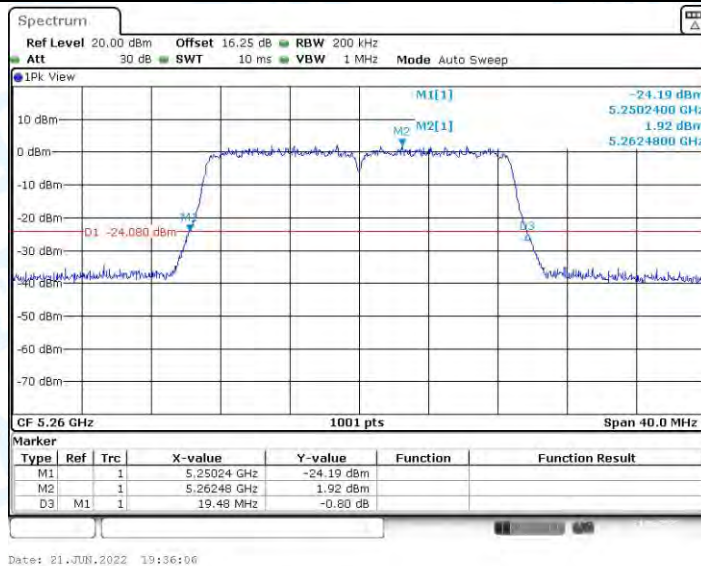
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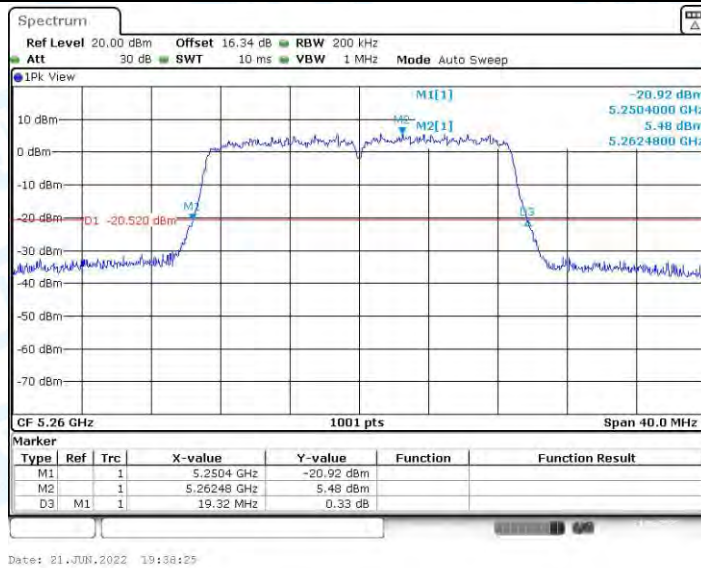
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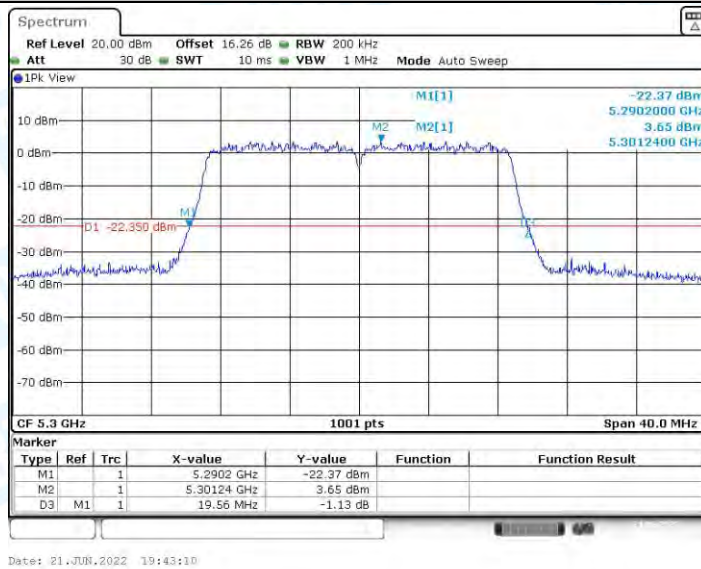
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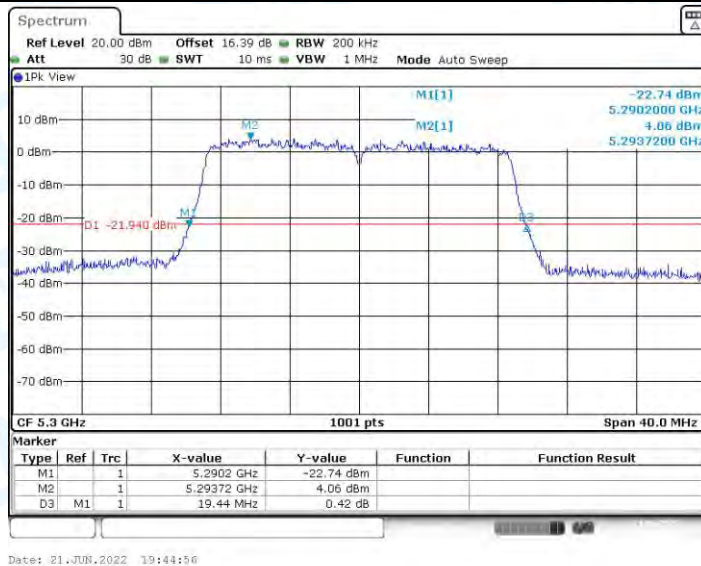
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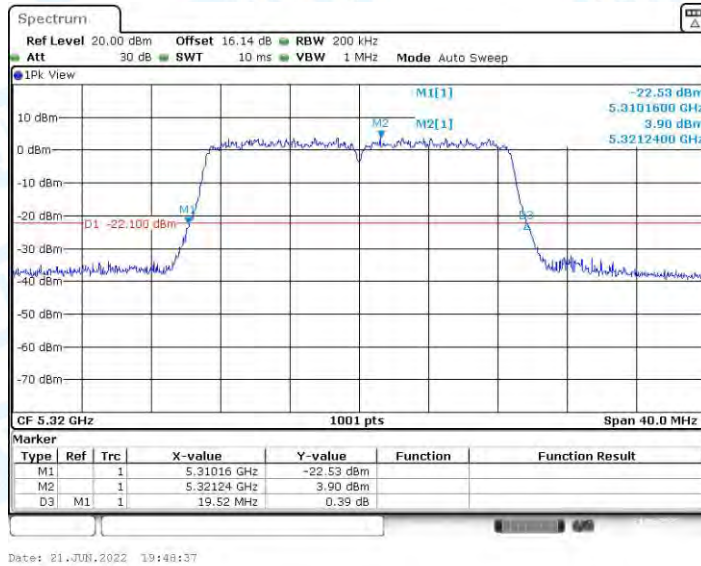
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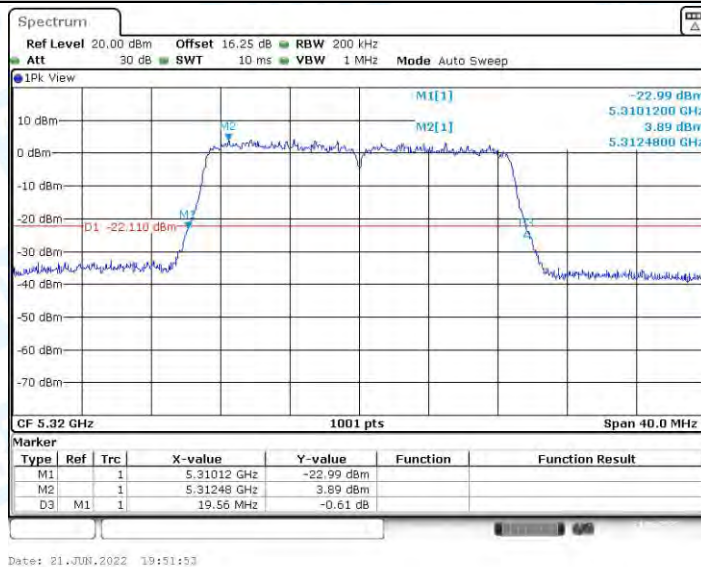
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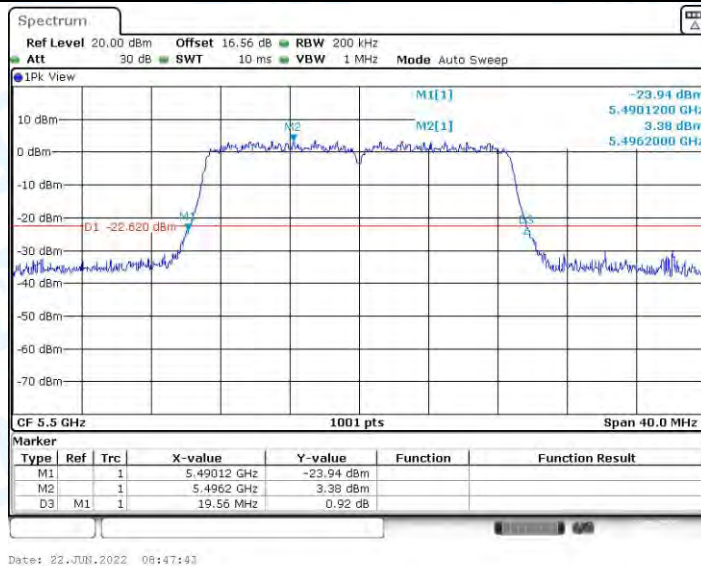
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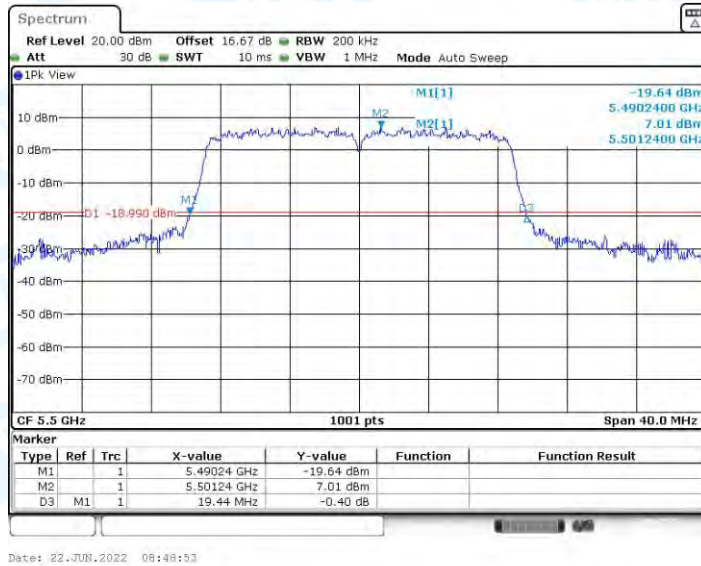
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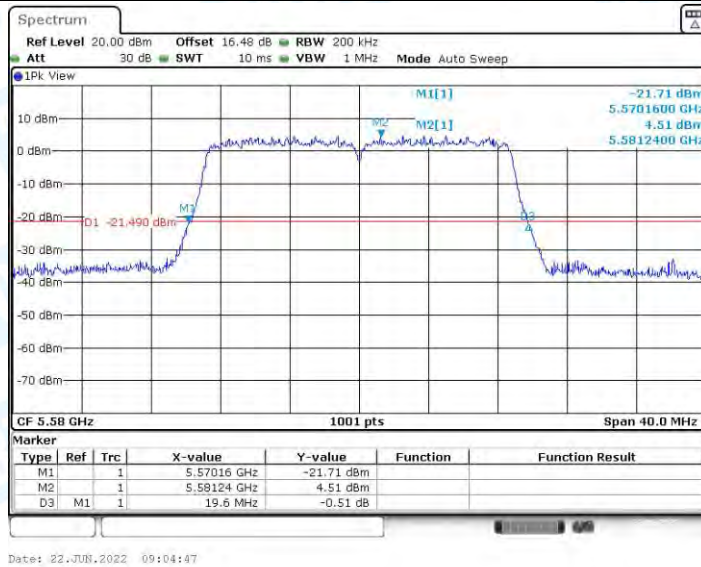
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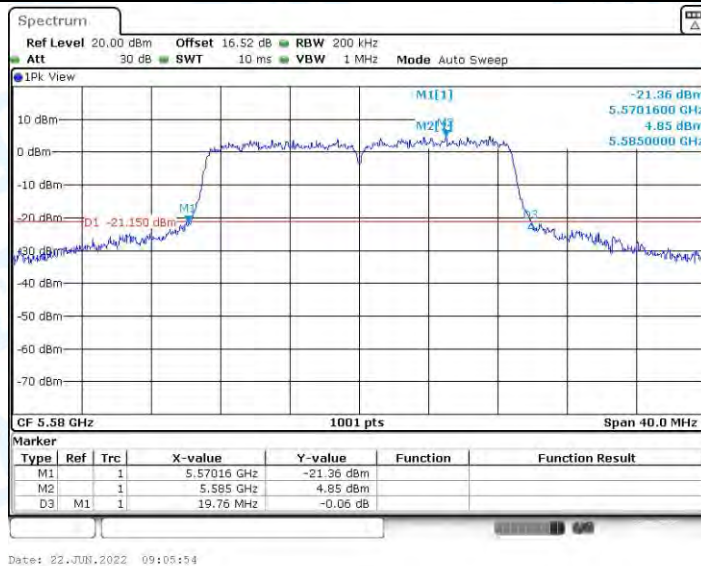
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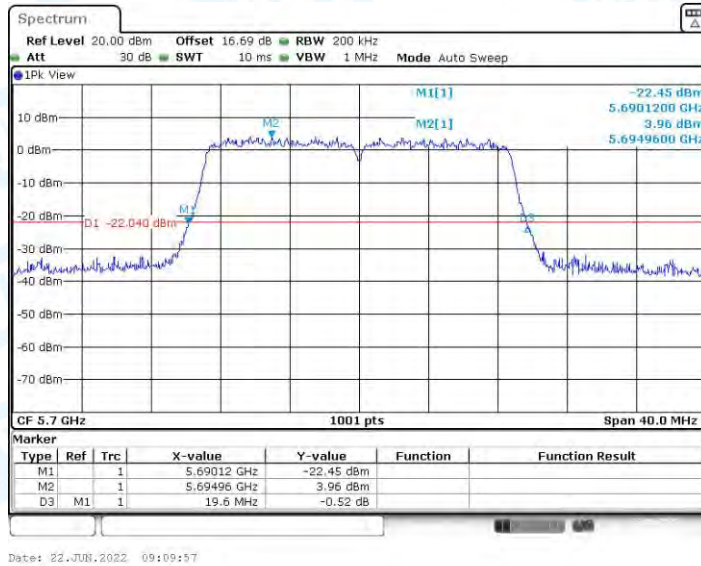
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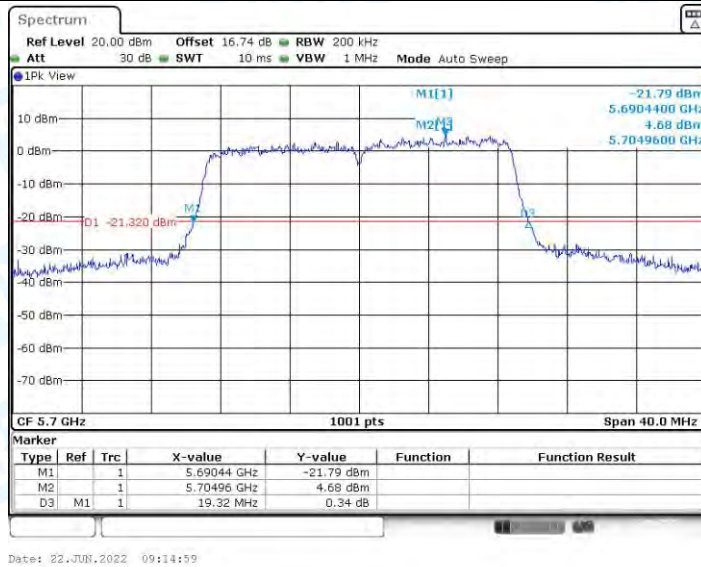
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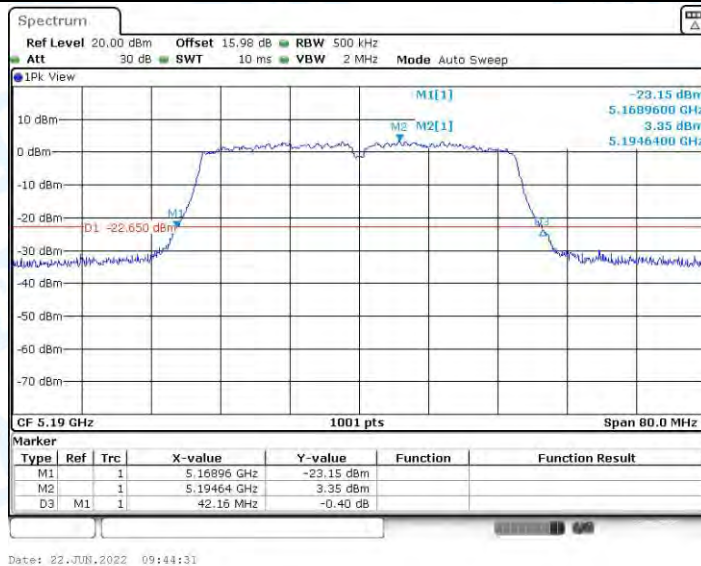
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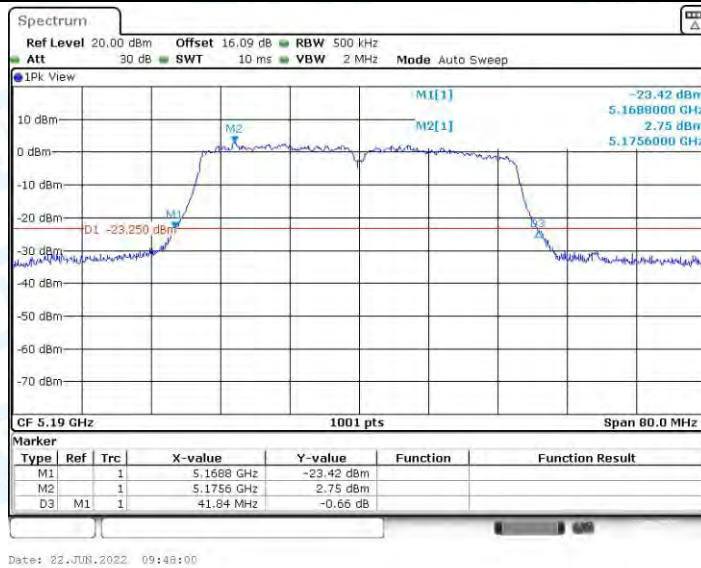
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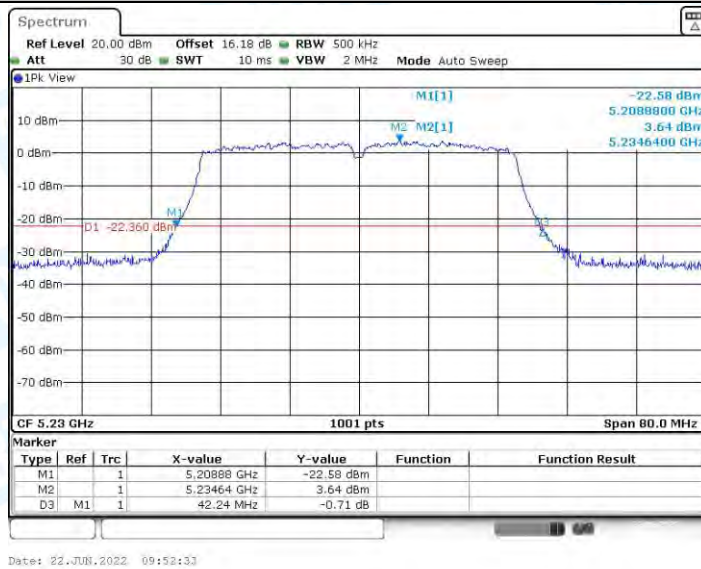
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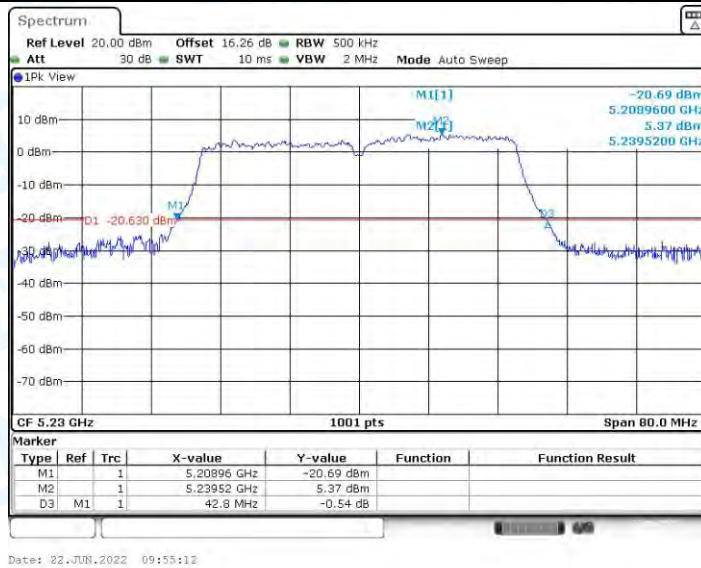
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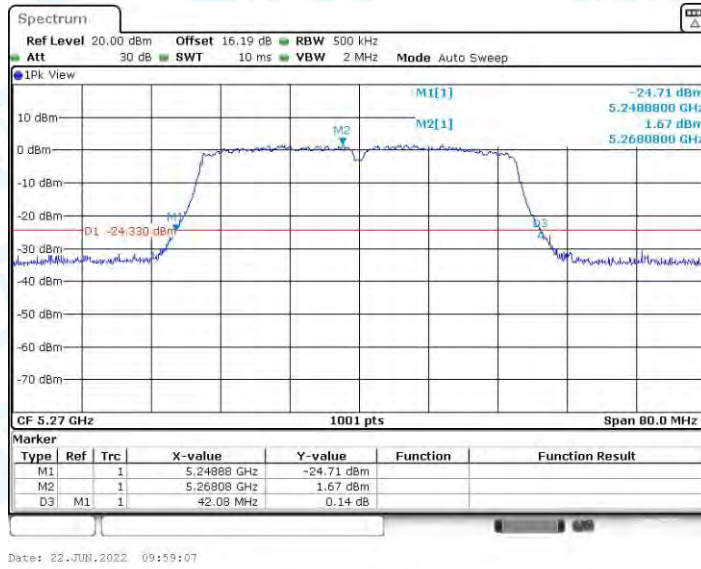
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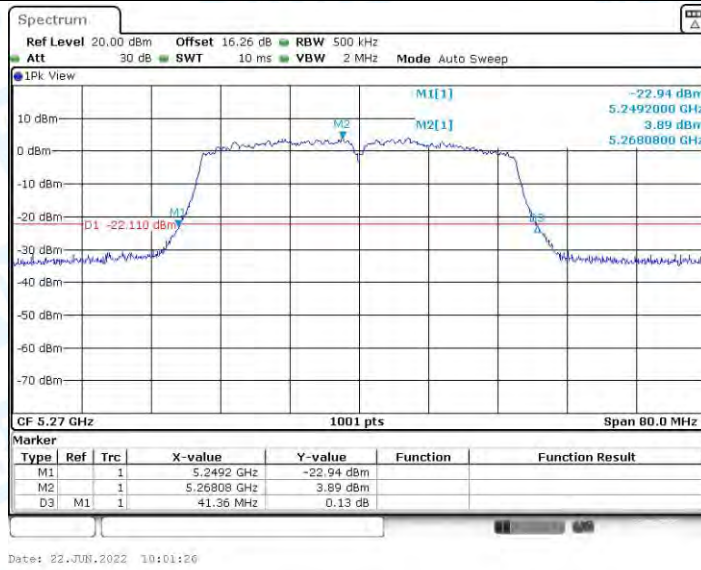
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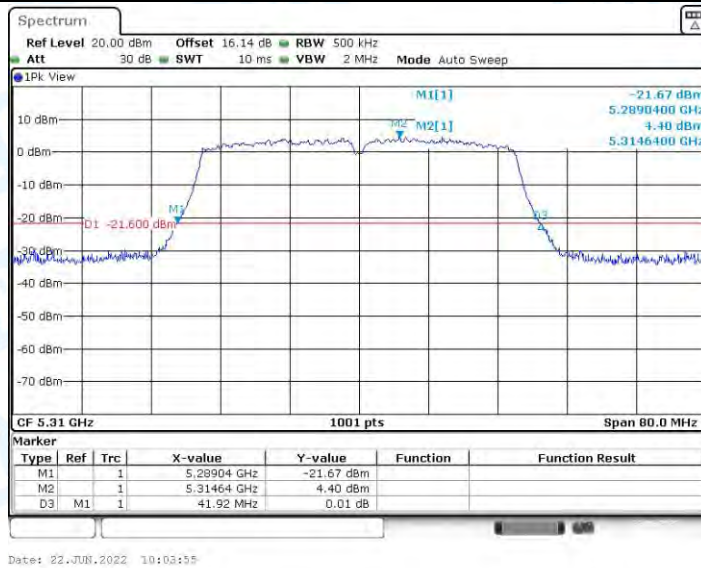
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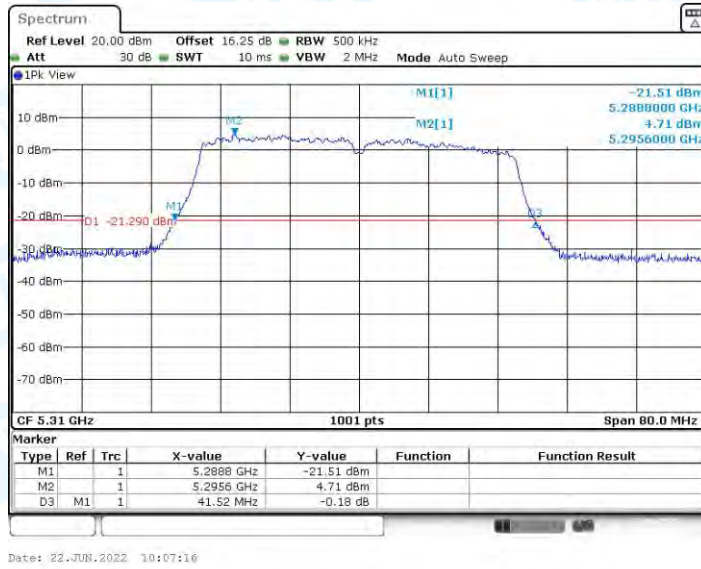
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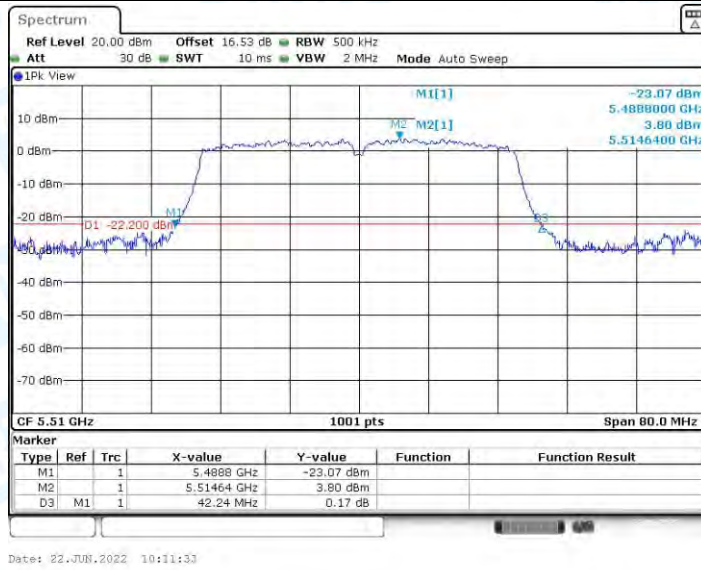
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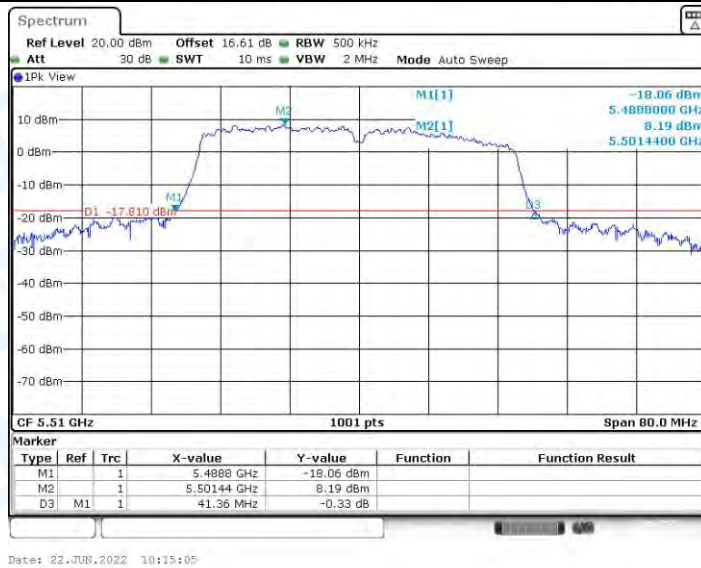
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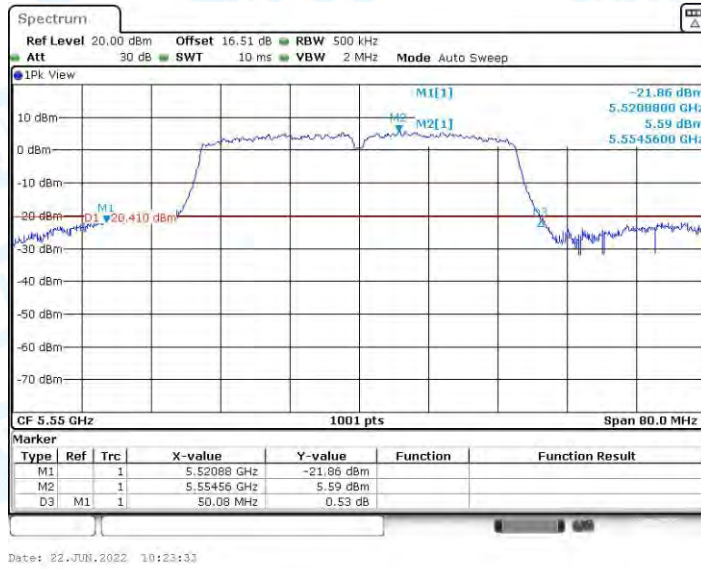
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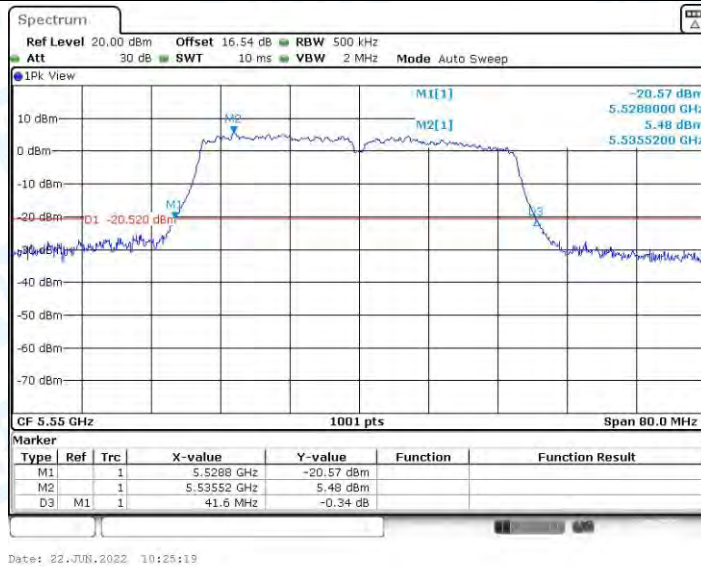
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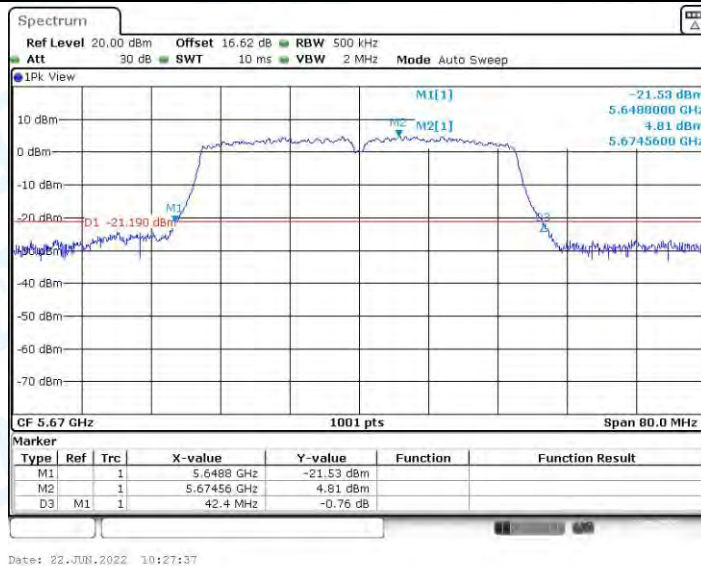
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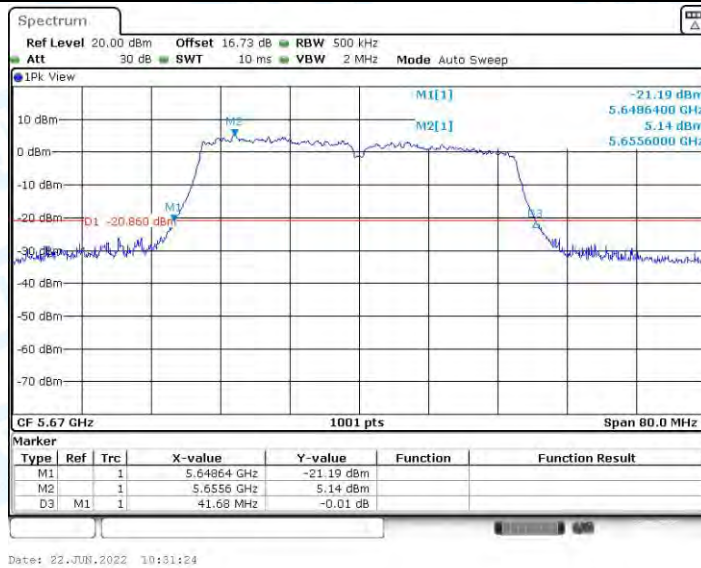
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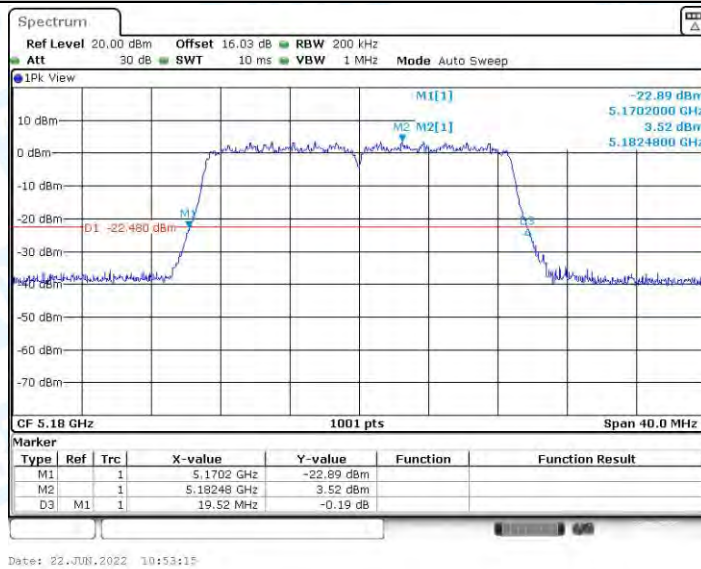
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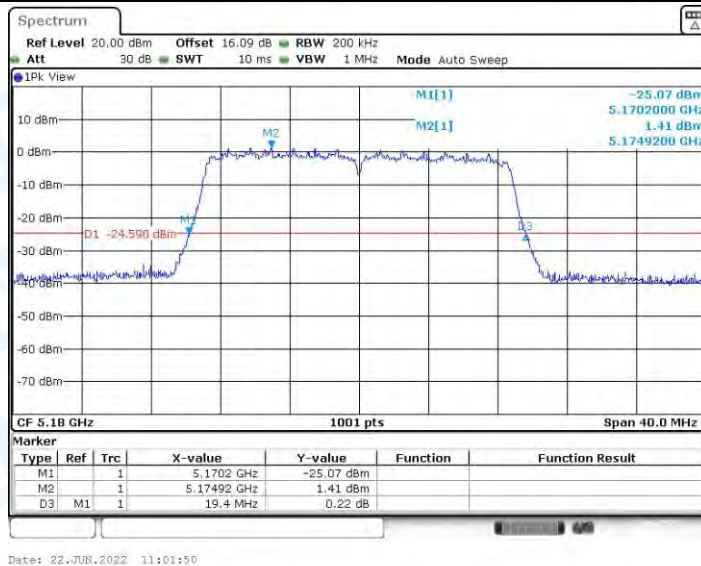
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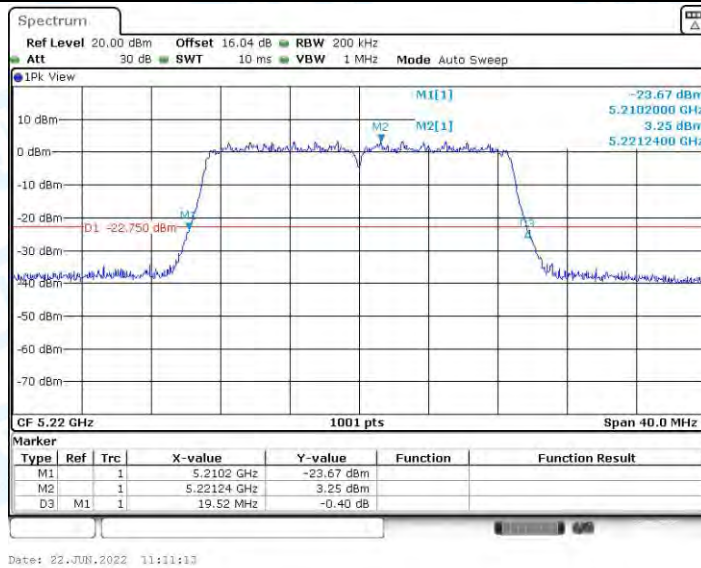
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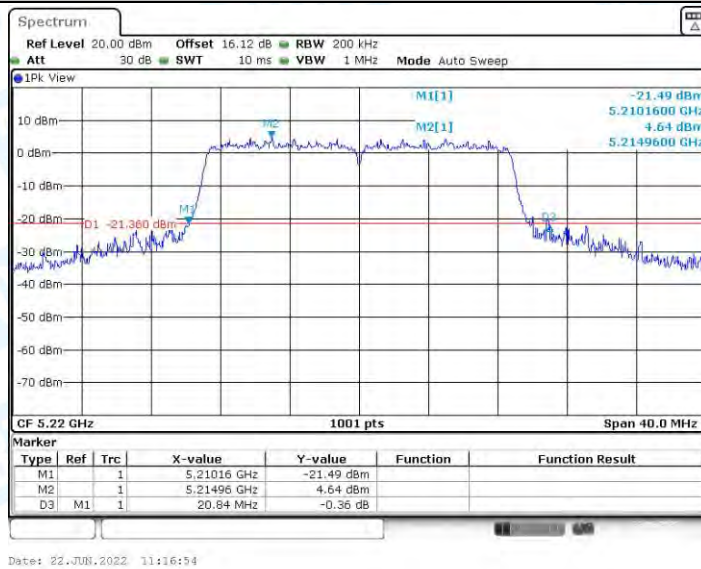
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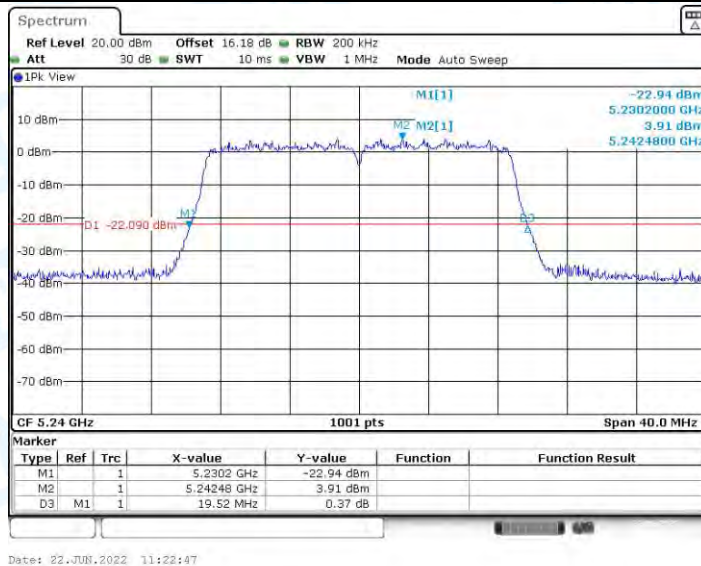
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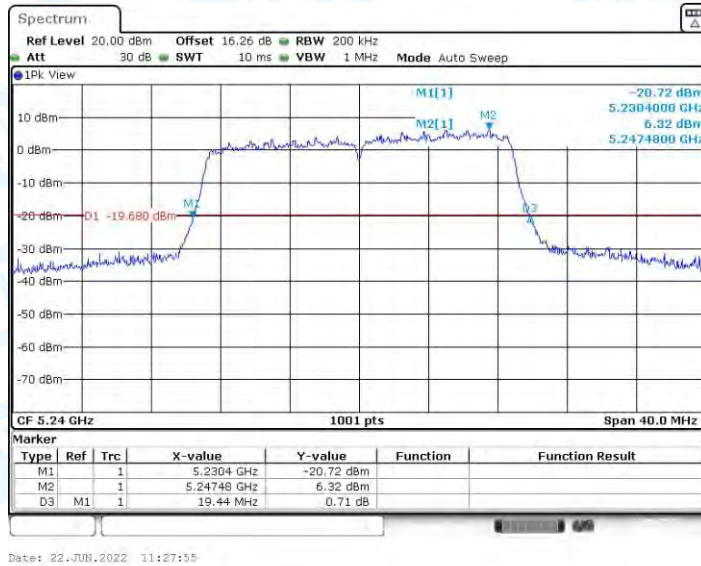
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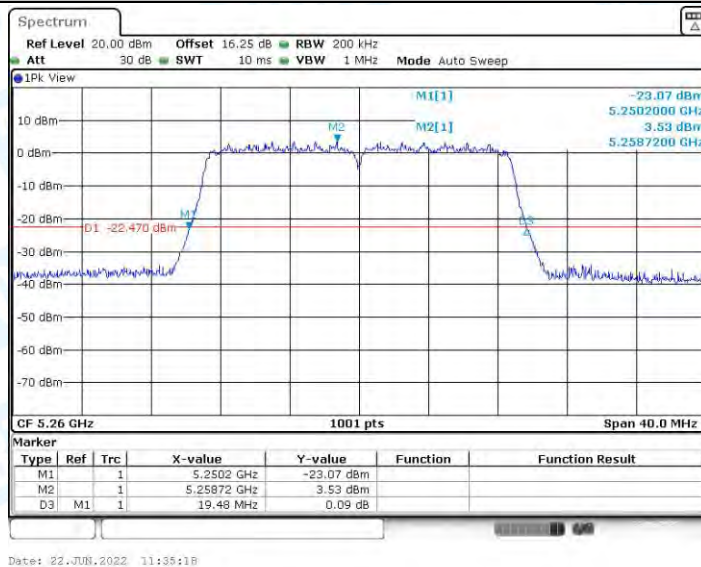
11AC20MIMO_Ant2_5220



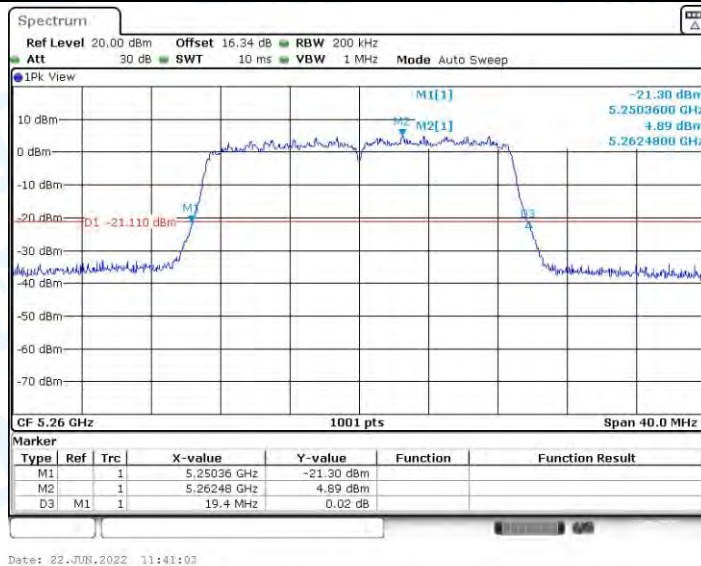
11AC20MIMO_Ant1_5240



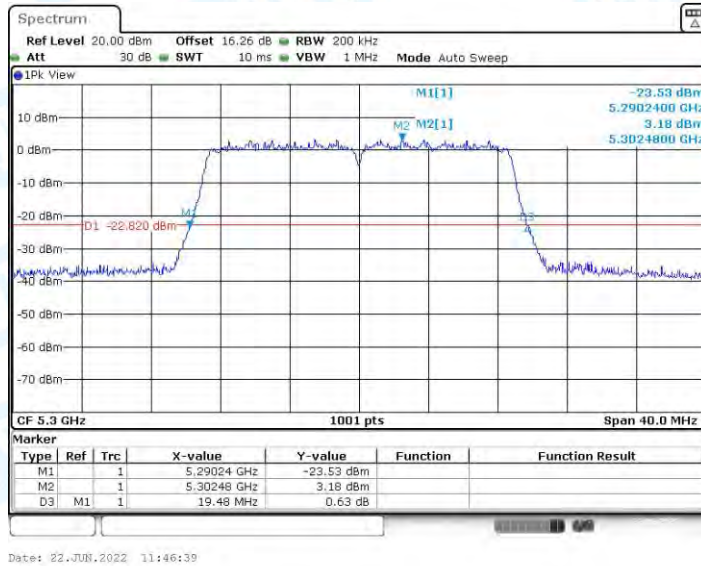
11AC20MIMO_Ant2_5240



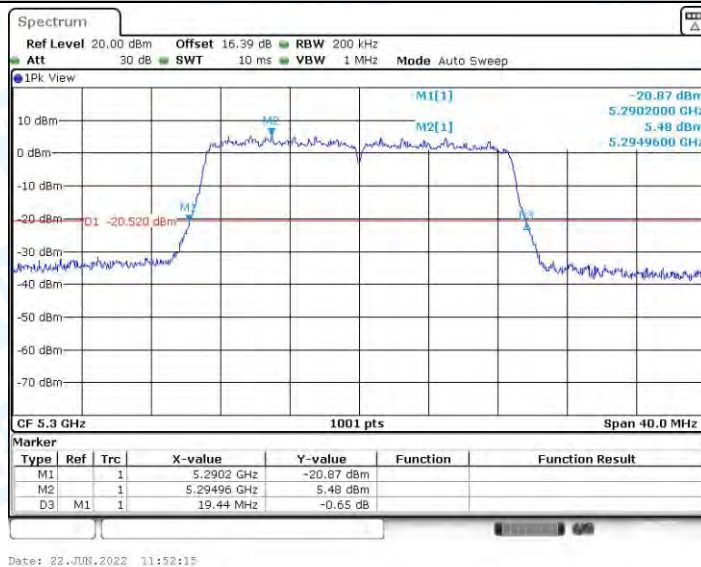
11AC20MIMO_Ant1_5260



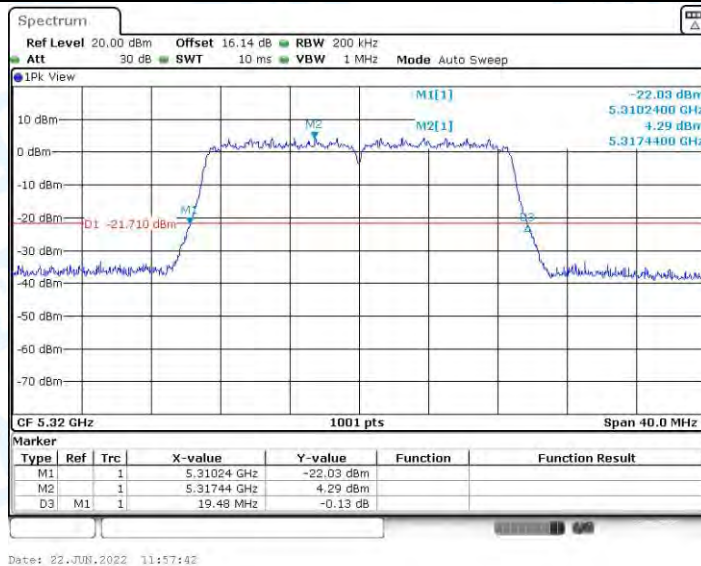
11AC20MIMO_Ant2_5260



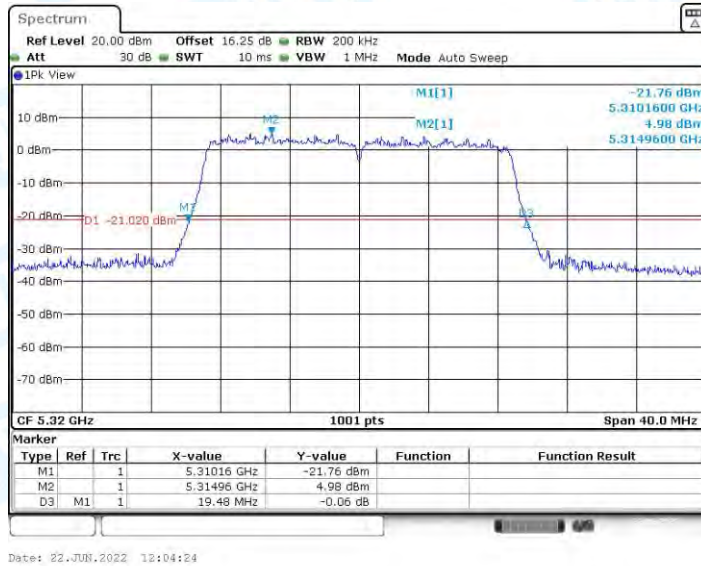
11AC20MIMO_Ant1_5300



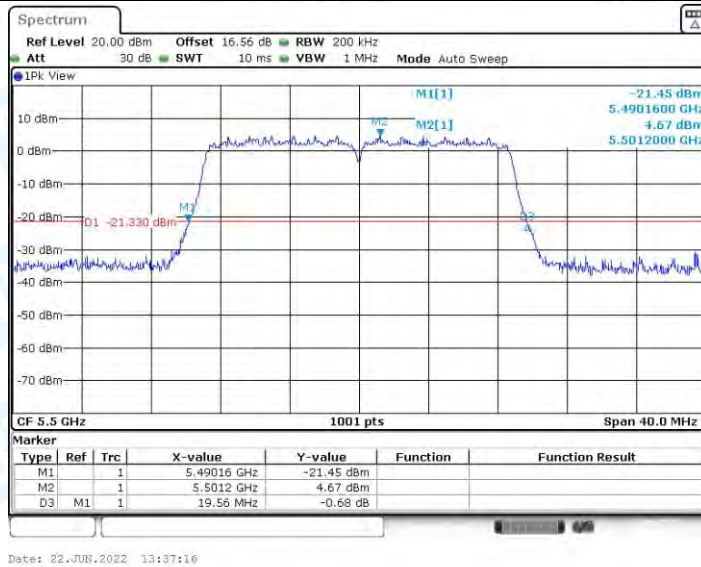
11AC20MIMO_Ant2_5300



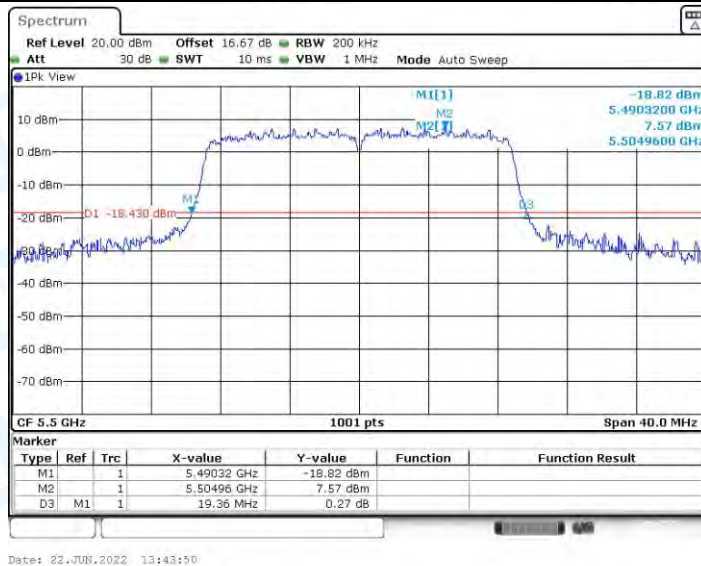
11AC20MIMO_Ant1_5320



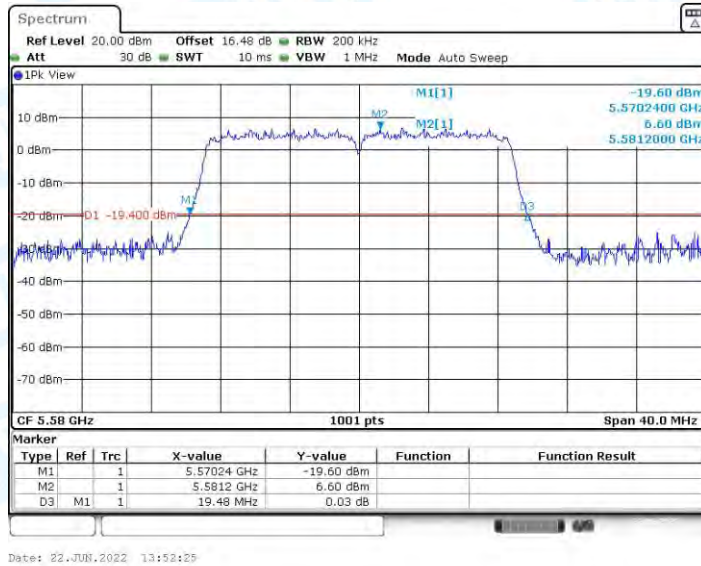
11AC20MIMO_Ant2_5320



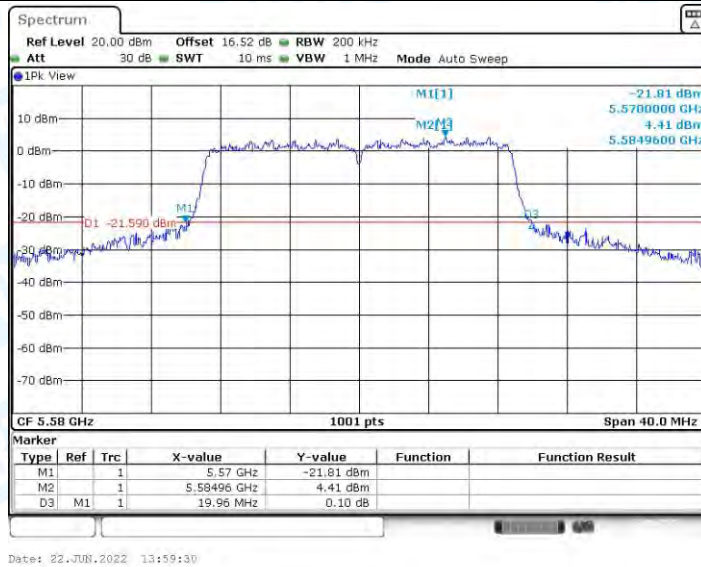
11AC20MIMO_Ant1_5500



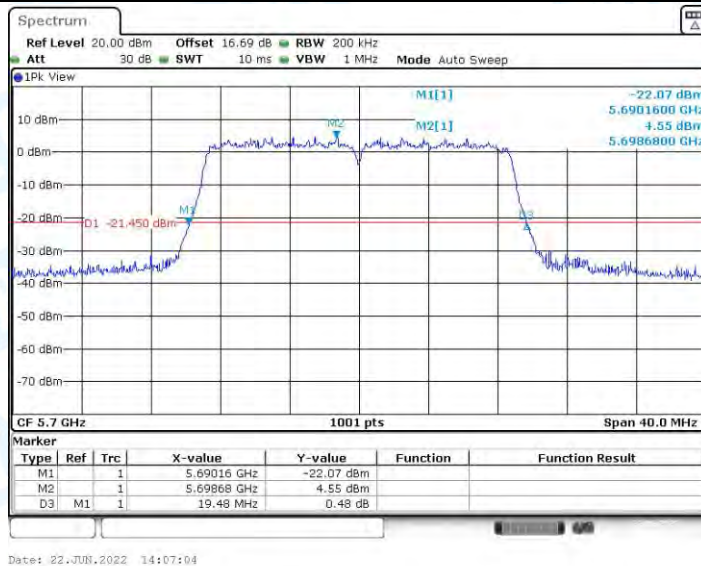
11AC20MIMO_Ant2_5500



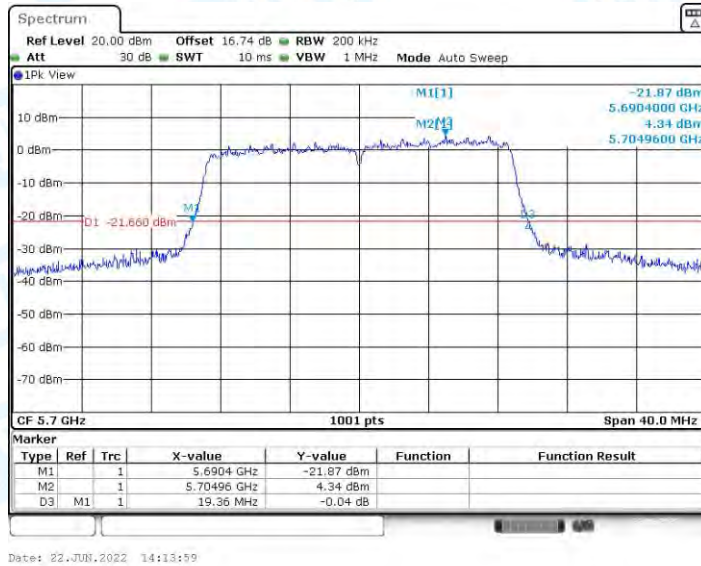
11AC20MIMO_Ant1_5580



11AC20MIMO_Ant2_5580



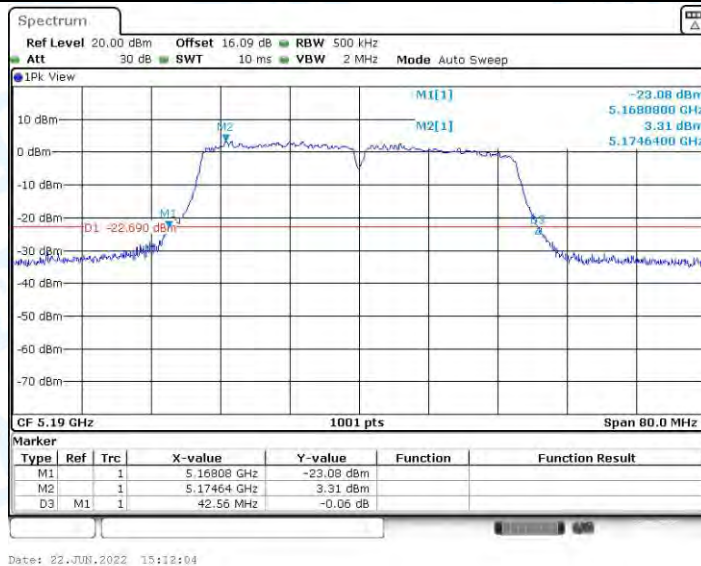
11AC20MIMO_Ant1_5700



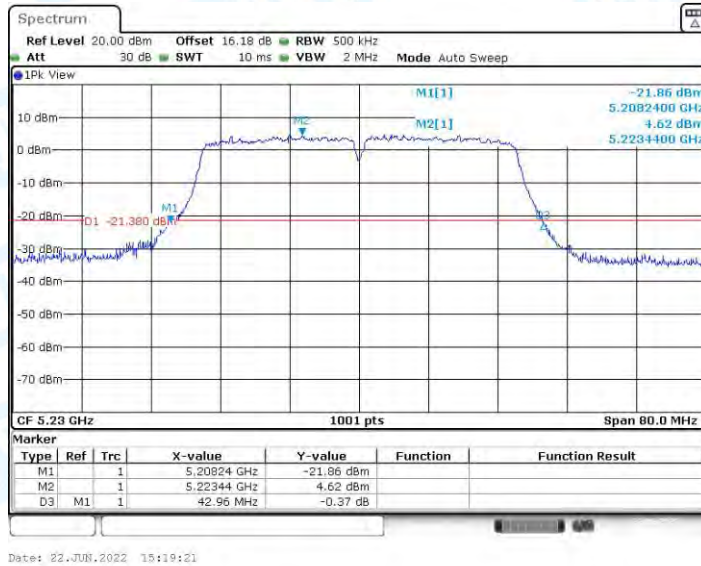
11AC20MIMO_Ant2_5700



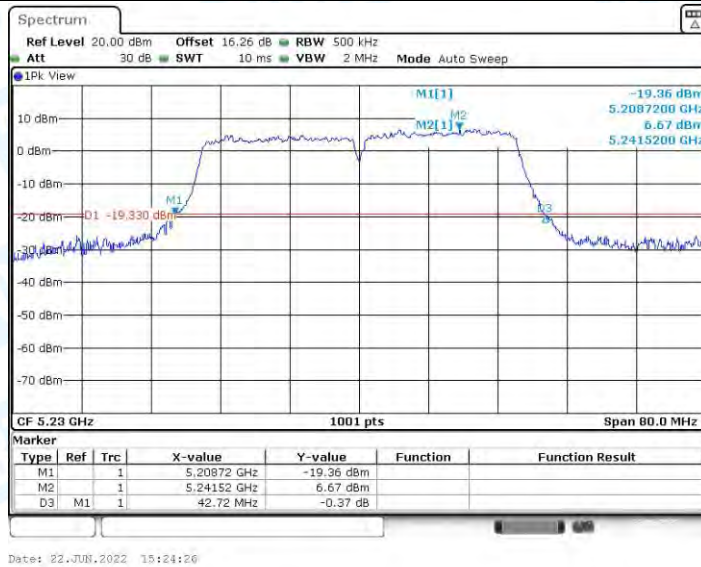
11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



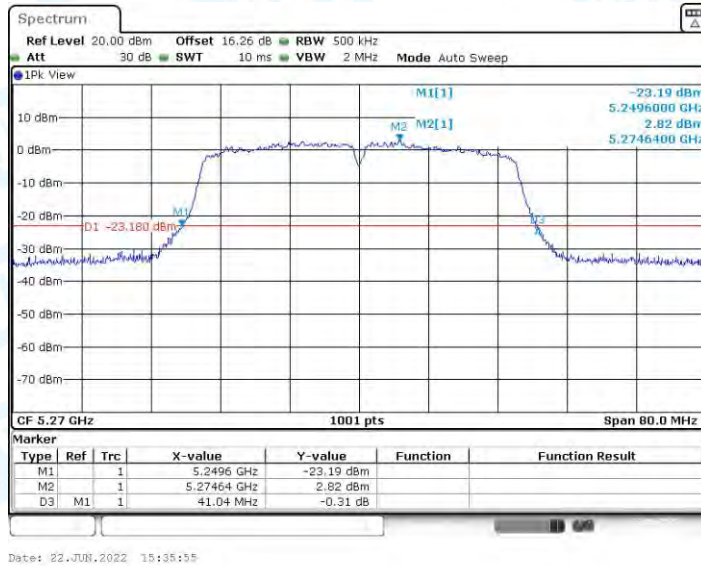
11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230



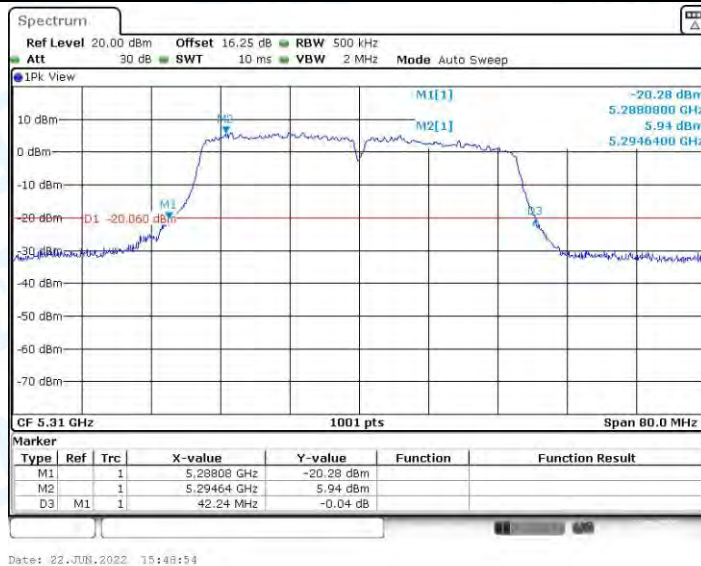
11AC40MIMO_Ant1_5270



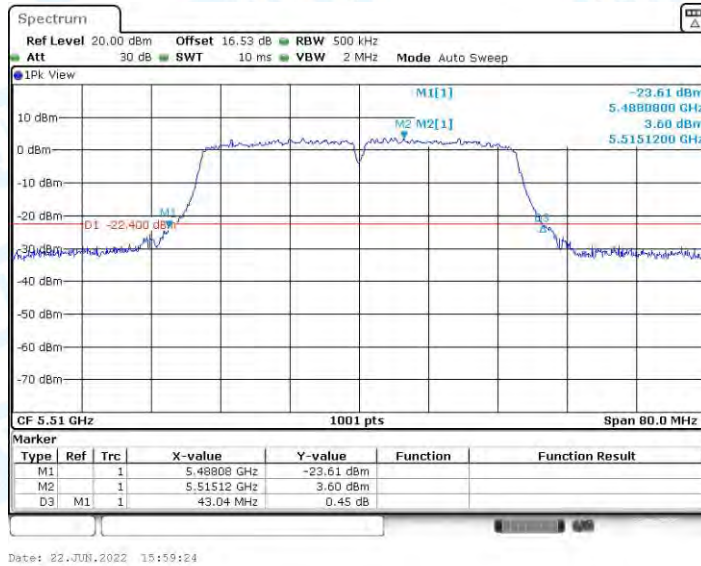
11AC40MIMO_Ant2_5270



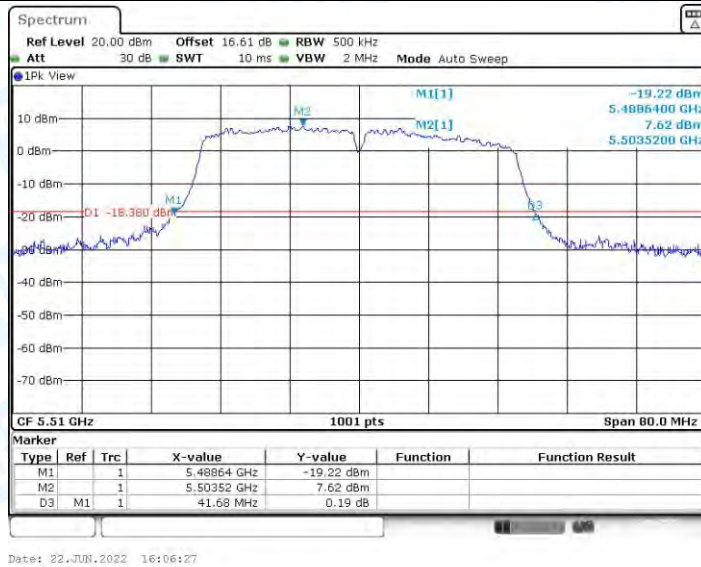
11AC40MIMO_Ant1_5310



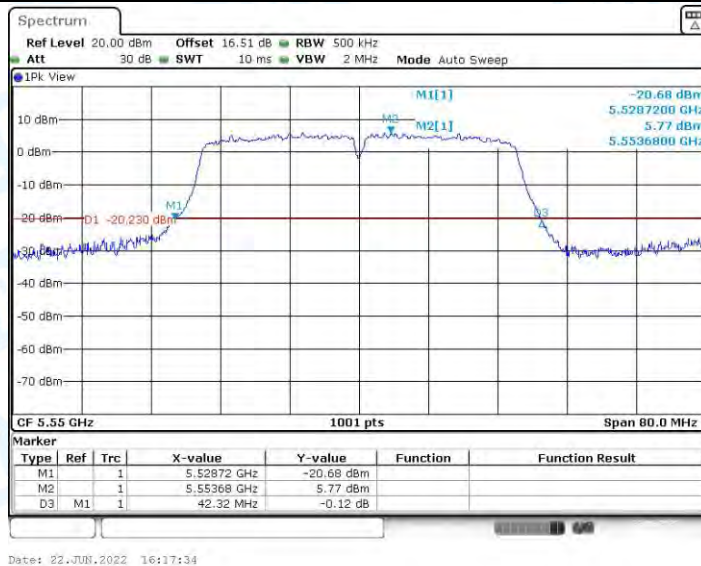
11AC40MIMO_Ant2_5310



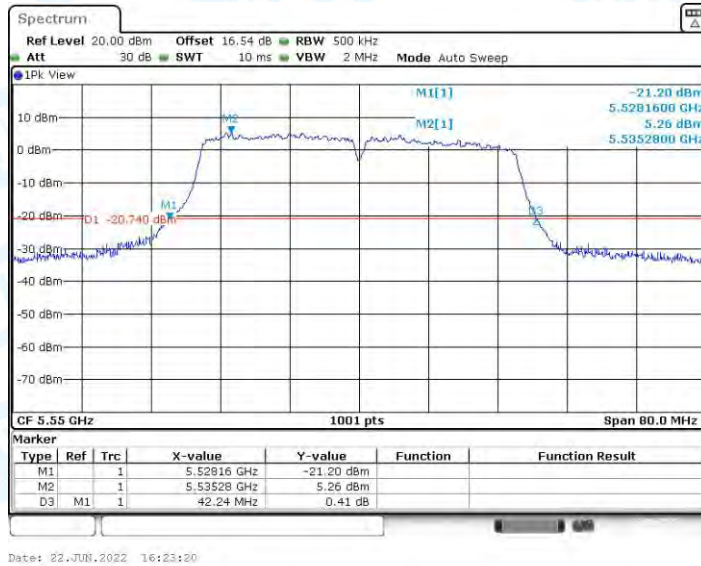
11AC40MIMO_Ant1_5510



11AC40MIMO_Ant2_5510



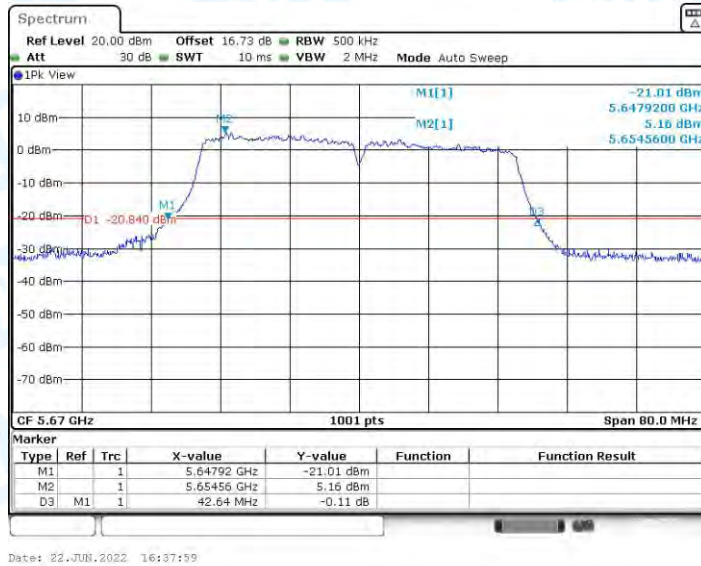
11AC40MIMO_Ant1_5550



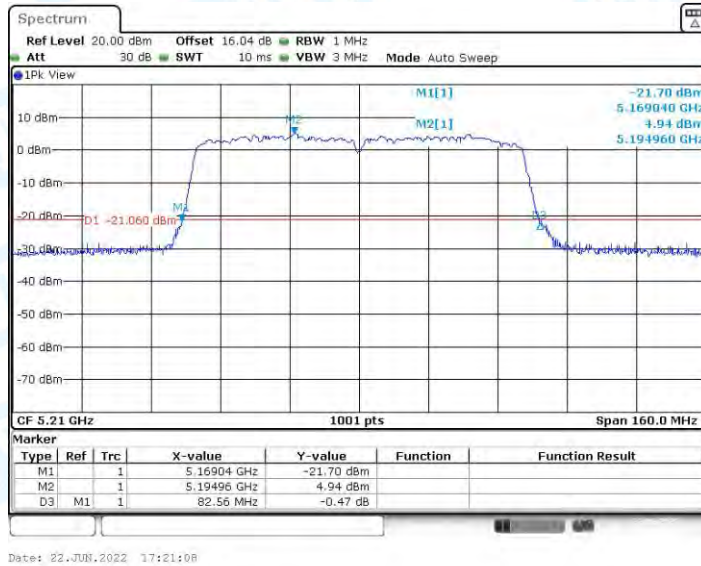
11AC40MIMO_Ant2_5550



11AC40MIMO_Ant1_5670



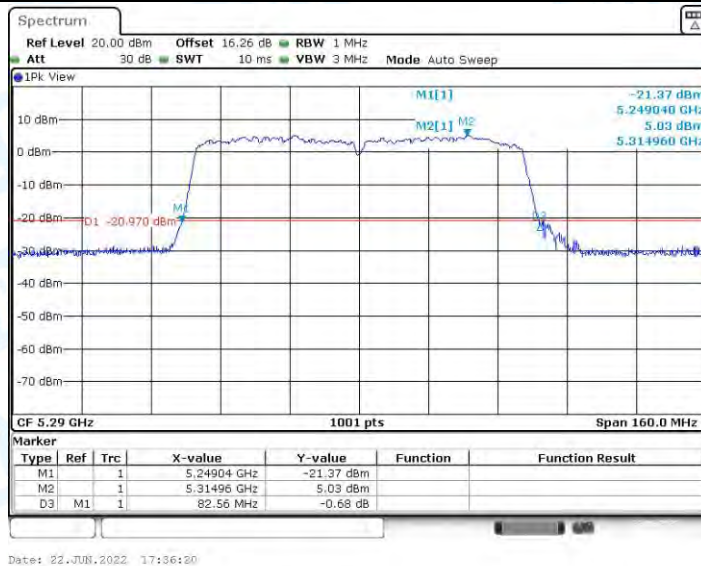
11AC40MIMO_Ant2_5670



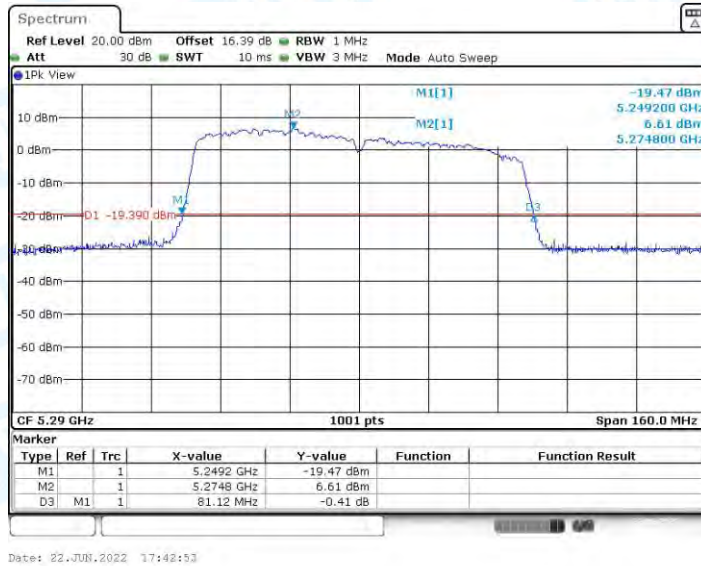
11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



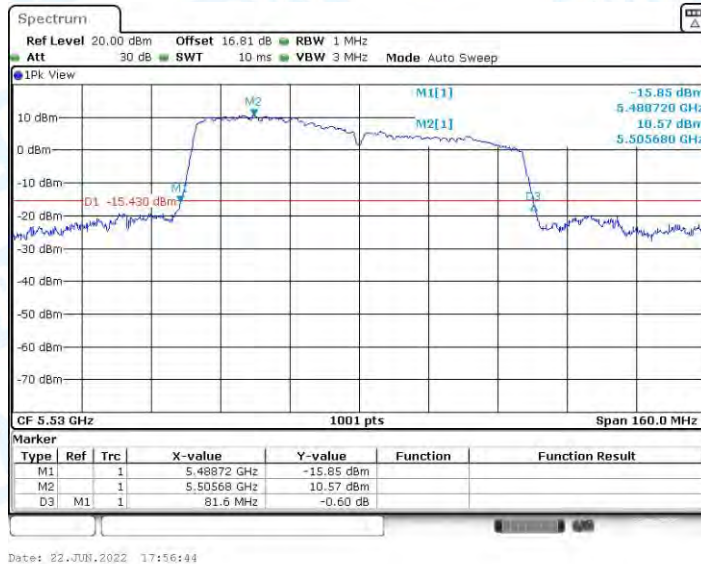
11AC80MIMO_Ant1_5290



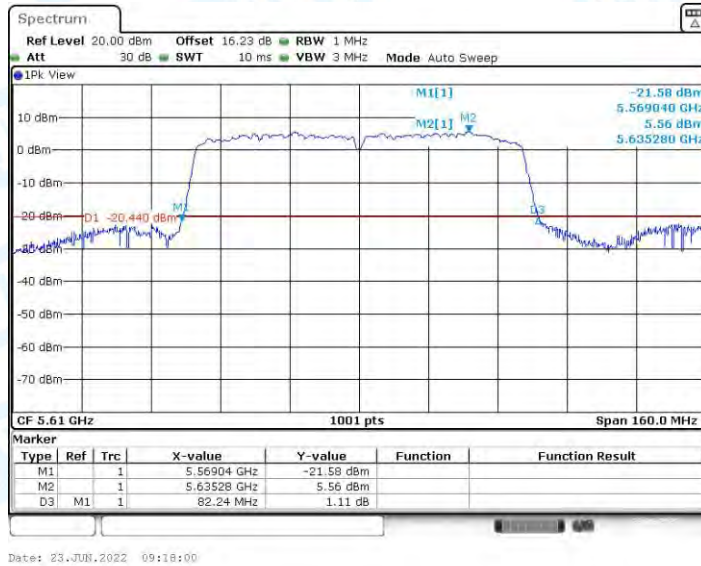
11AC80MIMO_Ant2_5290



11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530



11AC80MIMO_Ant1_5610



11AC80MIMO_Ant2_5610

2. Occupied channel bandwidth

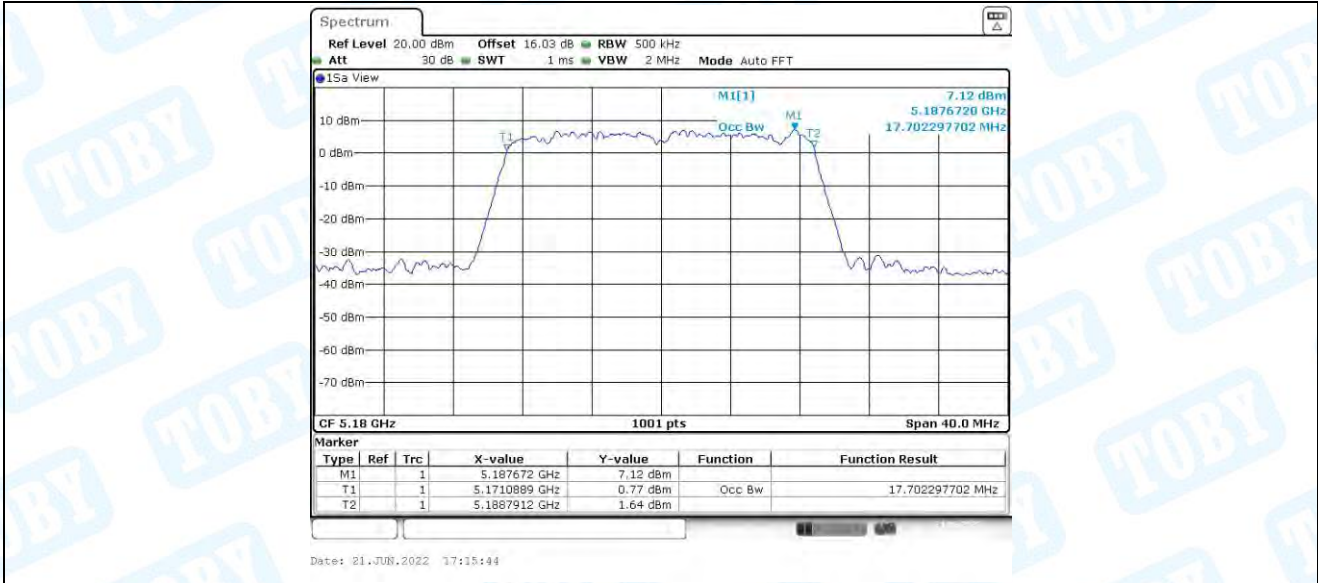
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.702	5171.089	5188.791	---	---
	Ant2	5180	17.702	5171.089	5188.791	---	---
	Ant1	5220	17.742	5211.129	5228.871	---	---
	Ant2	5220	17.662	5211.129	5228.791	---	---
	Ant1	5240	17.702	5231.129	5248.831	---	---
	Ant2	5240	16.583	5231.728	5248.312	---	---
	Ant1	5260	17.662	5251.129	5268.791	---	---
	Ant2	5260	16.543	5251.728	5268.272	---	---
	Ant1	5300	17.742	5291.089	5308.831	---	---
	Ant2	5300	16.543	5291.688	5308.232	---	---
	Ant1	5320	17.742	5311.089	5328.831	---	---
	Ant2	5320	16.583	5311.648	5328.232	---	---
	Ant1	5500	17.742	5491.089	5508.831	---	---
	Ant2	5500	16.663	5491.648	5508.312	---	---
	Ant1	5580	17.742	5571.089	5588.831	---	---
	Ant2	5580	16.543	5571.648	5588.192	---	---
	Ant1	5700	17.782	5691.009	5708.791	---	---
	Ant2	5700	16.503	5691.688	5708.192	---	---
	Ant1	5745	17.742	5736.089	5753.831	---	---
	Ant2	5745	16.663	5736.608	5753.272	---	---
Ant1	5785	17.742	5776.089	5793.831	---	---	
Ant2	5785	16.543	5776.688	5793.232	---	---	
Ant1	5825	17.782	5816.049	5833.831	---	---	
Ant2	5825	16.663	5816.648	5833.312	---	---	
11N20MIMO	Ant1	5180	17.662	5171.129	5188.791	---	---
	Ant2	5180	17.702	5171.089	5188.791	---	---
	Ant1	5220	17.742	5211.089	5228.831	---	---
	Ant2	5220	17.782	5211.089	5228.871	---	---
	Ant1	5240	17.702	5231.129	5248.831	---	---
	Ant2	5240	17.742	5231.249	5248.991	---	---
	Ant1	5260	17.782	5251.049	5268.831	---	---
	Ant2	5260	17.622	5251.209	5268.831	---	---
	Ant1	5300	17.742	5291.089	5308.831	---	---
	Ant2	5300	17.662	5291.089	5308.751	---	---
	Ant1	5320	17.782	5311.089	5328.871	---	---
	Ant2	5320	17.702	5311.089	5328.791	---	---
	Ant1	5500	17.742	5491.089	5508.831	---	---
	Ant2	5500	17.702	5491.129	5508.831	---	---
	Ant1	5580	17.702	5571.129	5588.831	---	---
	Ant2	5580	17.782	5571.169	5588.951	---	---
Ant1	5700	17.702	5691.089	5708.791	---	---	

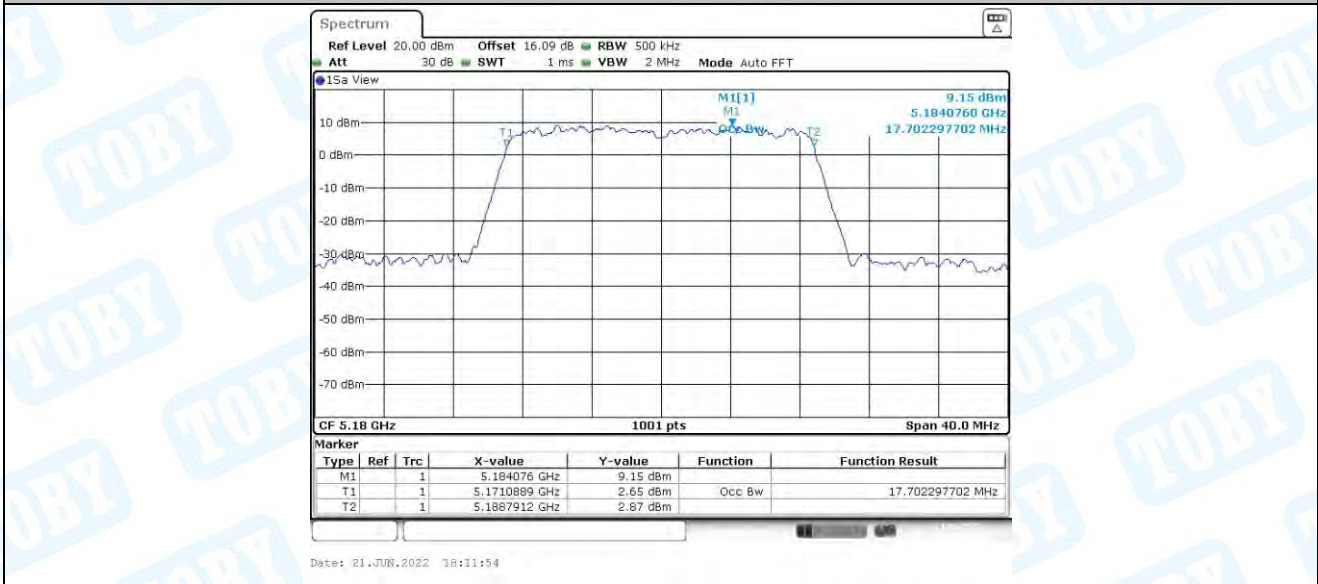
	Ant2	5700	17.742	5691.249	5708.991	---	---
	Ant1	5745	17.702	5736.169	5753.871	---	---
	Ant2	5745	17.742	5736.009	5753.751	---	---
	Ant1	5785	17.822	5776.049	5793.871	---	---
	Ant2	5785	17.862	5776.009	5793.871	---	---
	Ant1	5825	17.742	5816.129	5833.871	---	---
	Ant2	5825	17.702	5816.209	5833.911	---	---
11N40MIMO	Ant1	5190	36.843	5171.379	5208.222	---	---
	Ant2	5190	36.444	5171.618	5208.062	---	---
	Ant1	5230	36.284	5211.778	5248.062	---	---
	Ant2	5230	36.763	5211.618	5248.382	---	---
	Ant1	5270	36.284	5251.698	5287.982	---	---
	Ant2	5270	35.964	5252.018	5287.982	---	---
	Ant1	5310	36.204	5291.858	5328.062	---	---
	Ant2	5310	36.843	5291.139	5327.982	---	---
	Ant1	5510	36.523	5491.778	5528.302	---	---
	Ant2	5510	36.683	5491.139	5527.822	---	---
	Ant1	5550	36.204	5531.938	5568.142	---	---
	Ant2	5550	36.284	5531.618	5567.902	---	---
	Ant1	5670	36.603	5651.459	5688.062	---	---
	Ant2	5670	36.444	5651.379	5687.822	---	---
	Ant1	5755	36.284	5736.858	5773.142	---	---
	Ant2	5755	36.044	5736.538	5772.582	---	---
	Ant1	5795	36.763	5776.379	5813.142	---	---
	Ant2	5795	36.444	5776.938	5813.382	---	---
11AC20MIMO	Ant1	5180	17.622	5171.129	5188.751	---	---
	Ant2	5180	17.622	5171.089	5188.711	---	---
	Ant1	5220	17.742	5211.089	5228.831	---	---
	Ant2	5220	17.742	5211.089	5228.831	---	---
	Ant1	5240	17.662	5231.169	5248.831	---	---
	Ant2	5240	17.702	5231.289	5248.991	---	---
	Ant1	5260	17.782	5251.049	5268.831	---	---
	Ant2	5260	17.622	5251.209	5268.831	---	---
	Ant1	5300	17.702	5291.169	5308.871	---	---
	Ant2	5300	17.622	5291.089	5308.711	---	---
	Ant1	5320	17.702	5311.129	5328.831	---	---
	Ant2	5320	17.702	5311.049	5328.751	---	---
	Ant1	5500	17.782	5491.049	5508.831	---	---
	Ant2	5500	17.702	5491.129	5508.831	---	---
	Ant1	5580	17.742	5571.089	5588.831	---	---
	Ant2	5580	17.782	5571.129	5588.911	---	---
	Ant1	5700	17.702	5691.089	5708.791	---	---
	Ant2	5700	17.702	5691.249	5708.951	---	---
	Ant1	5745	17.742	5736.089	5753.831	---	---
	Ant2	5745	17.622	5736.129	5753.751	---	---
Ant1	5785	17.782	5776.129	5793.911	---	---	

	Ant2	5785	17.822	5776.049	5793.871	---	---	
	Ant1	5825	17.702	5816.129	5833.831	---	---	
	Ant2	5825	17.622	5816.249	5833.871	---	---	
11AC40MIMO	Ant1	5190	36.044	5171.938	5207.982	---	---	
	Ant2	5190	36.284	5171.778	5208.062	---	---	
	Ant1	5230	36.364	5211.698	5248.062	---	---	
	Ant2	5230	36.364	5211.858	5248.222	---	---	
	Ant1	5270	36.284	5251.858	5288.142	---	---	
	Ant2	5270	36.124	5251.938	5288.062	---	---	
	Ant1	5310	36.364	5291.778	5328.142	---	---	
	Ant2	5310	36.204	5291.618	5327.822	---	---	
	Ant1	5510	36.204	5491.778	5527.982	---	---	
	Ant2	5510	36.044	5491.698	5527.742	---	---	
	Ant1	5550	36.284	5531.778	5568.062	---	---	
	Ant2	5550	36.364	5531.538	5567.902	---	---	
	Ant1	5670	36.284	5651.858	5688.142	---	---	
	Ant2	5670	36.683	5651.299	5687.982	---	---	
	Ant1	5755	36.603	5736.938	5773.541	---	---	
	Ant2	5755	35.964	5736.538	5772.502	---	---	
	Ant1	5795	36.204	5776.858	5813.062	---	---	
	Ant2	5795	37.083	5776.778	5813.861	---	---	
	11AC80MIMO	Ant1	5210	75.445	5172.278	5247.722	---	---
		Ant2	5210	76.244	5171.798	5248.042	---	---
Ant1		5290	75.924	5251.958	5327.882	---	---	
Ant2		5290	74.645	5251.798	5326.444	---	---	
Ant1		5530	75.445	5492.278	5567.722	---	---	
Ant2		5530	74.965	5491.638	5566.603	---	---	
Ant1		5610	75.125	5572.438	5647.562	---	---	
Ant2		5610	73.846	5574.036	5647.882	---	---	
Ant1		5775	75.285	5737.438	5812.722	---	---	
Ant2		5775	76.404	5735.999	5812.403	---	---	

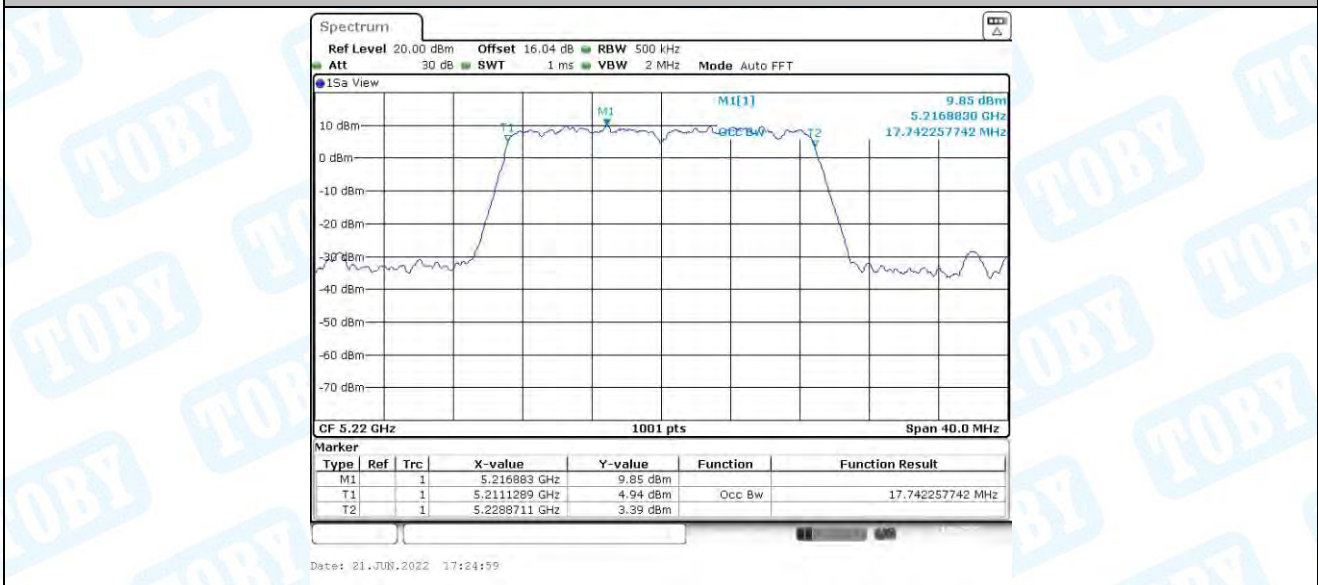
2.2. Test Graphs



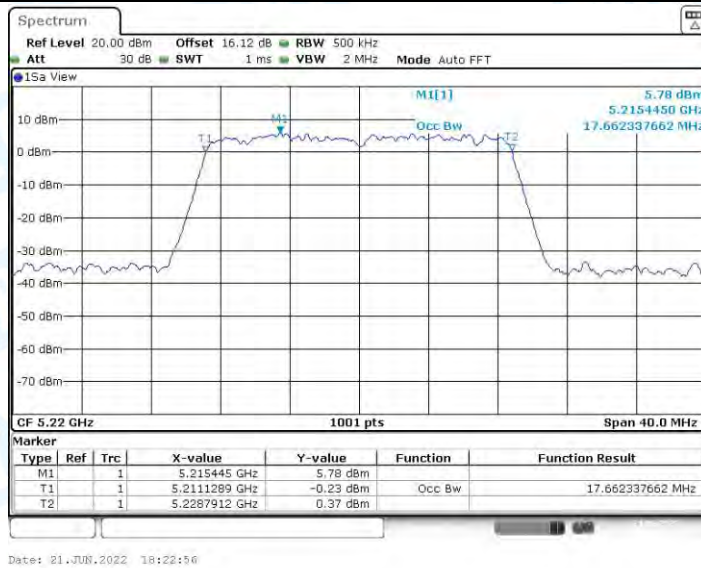
11A_Ant1_5180



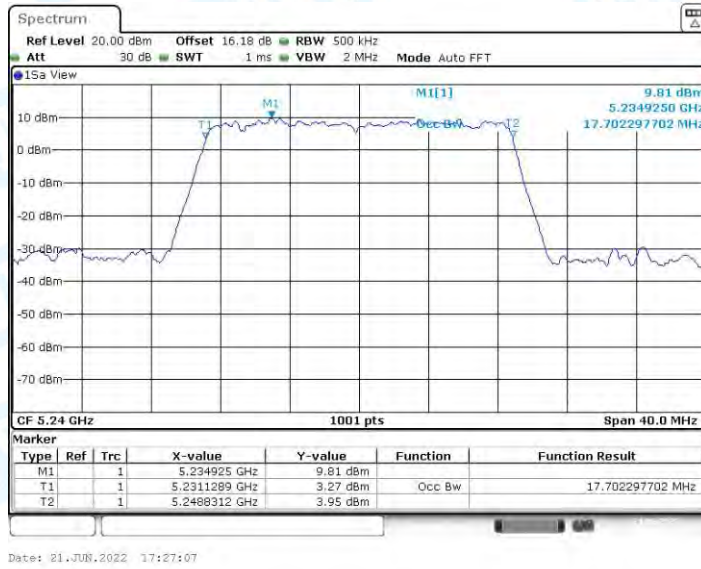
11A_Ant2_5180



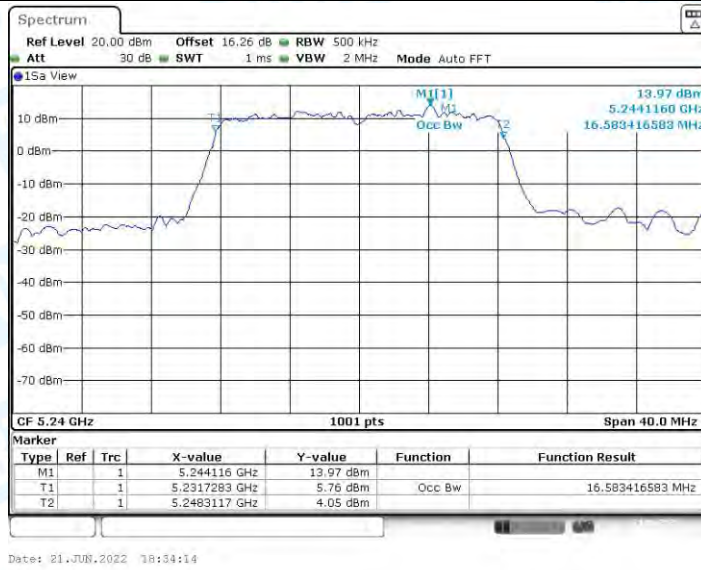
11A_Ant1_5220



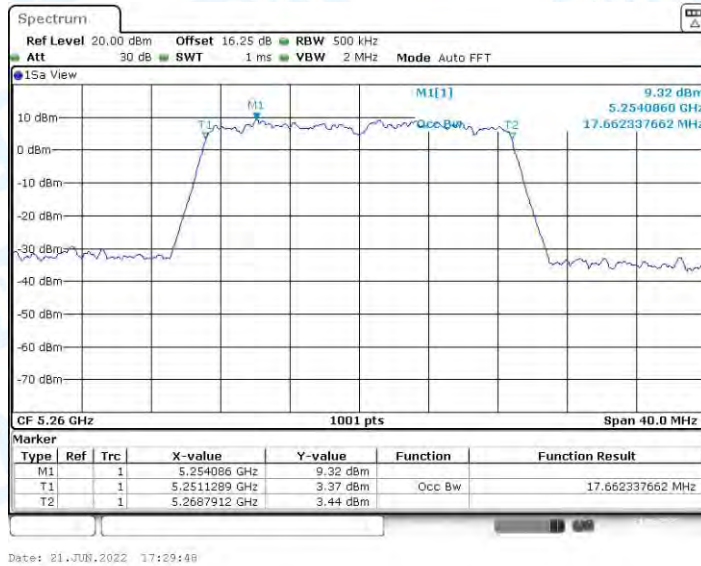
11A_Ant2_5220



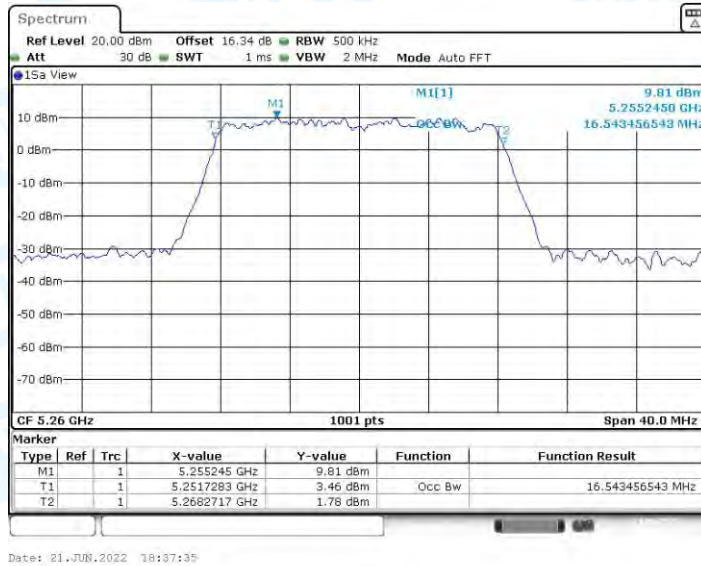
11A_Ant1_5240



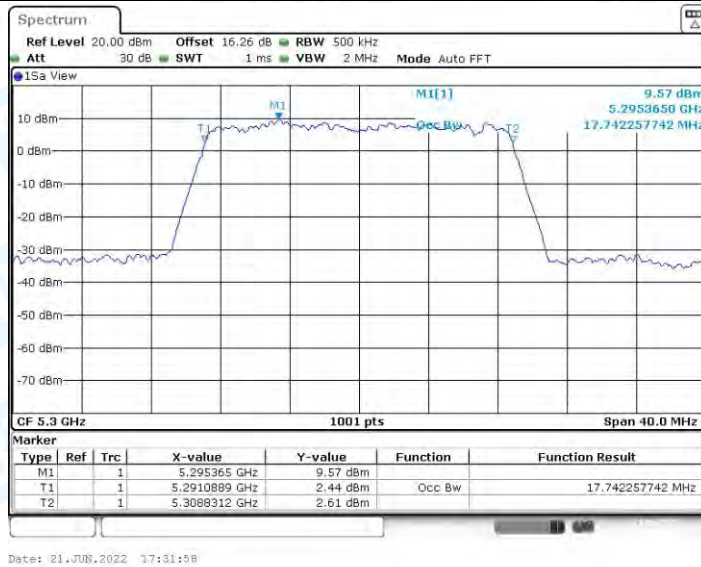
11A_Ant2_5240



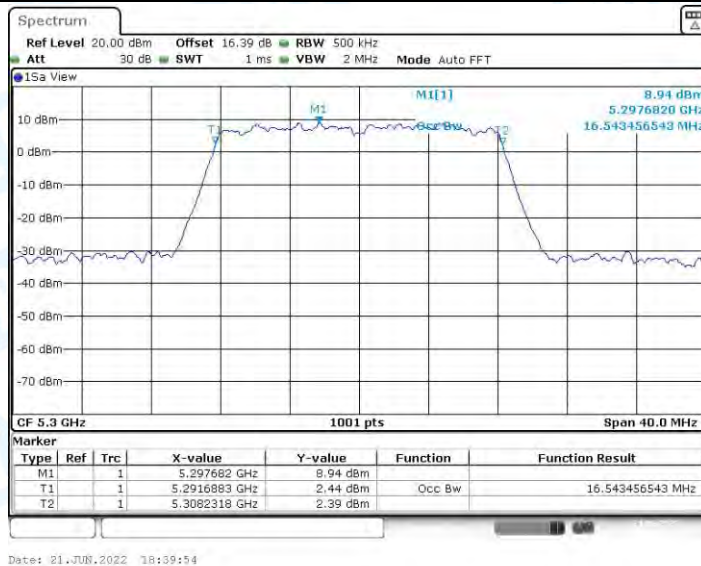
11A_Ant1_5260



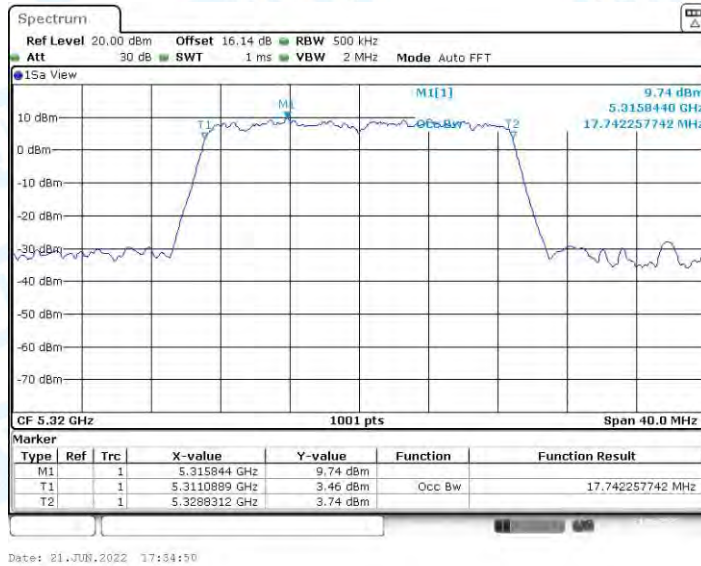
11A_Ant2_5260



11A_Ant1_5300



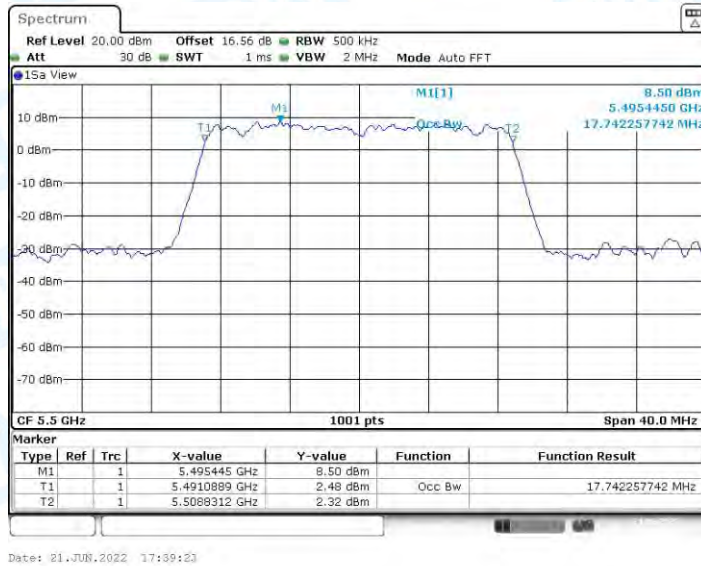
11A_Ant2_5300



11A_Ant1_5320



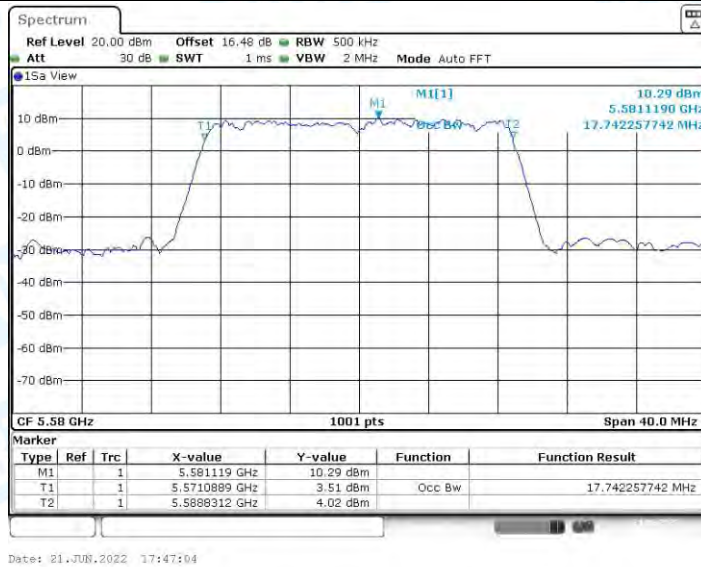
11A_Ant2_5320



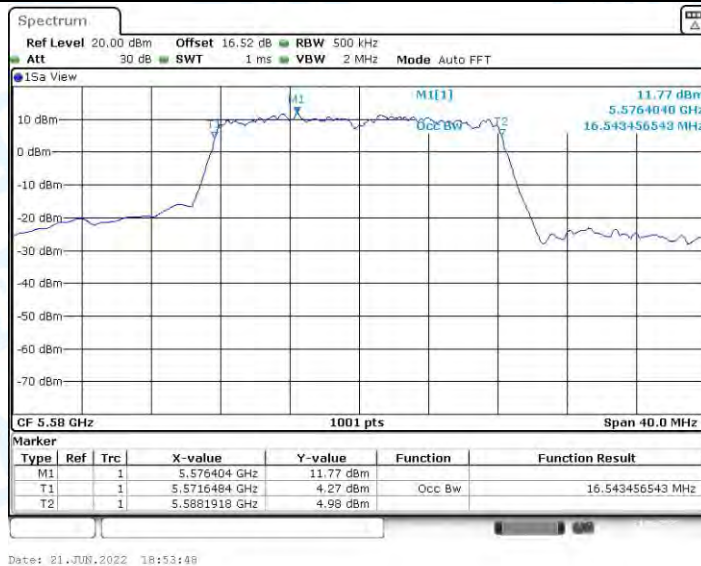
11A_Ant1_5500



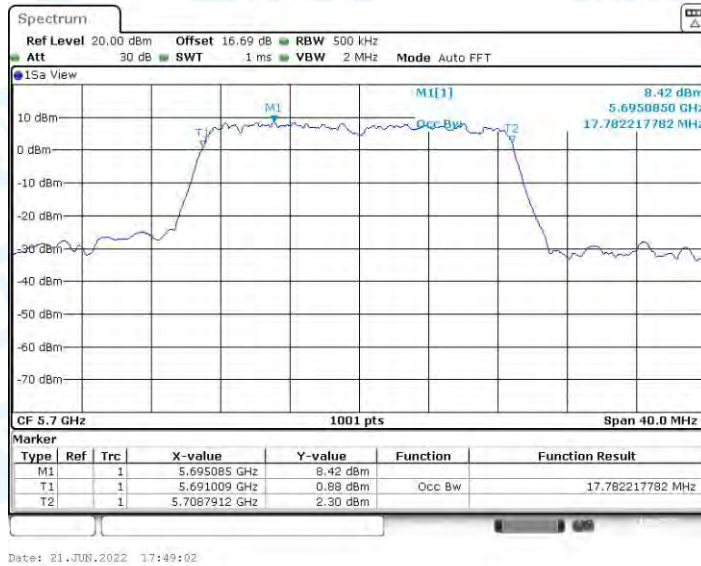
11A_Ant2_5500



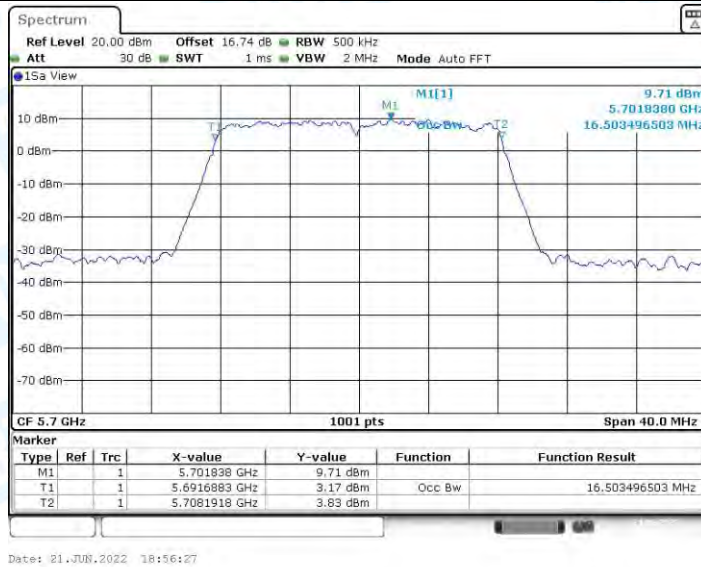
11A_Ant1_5580



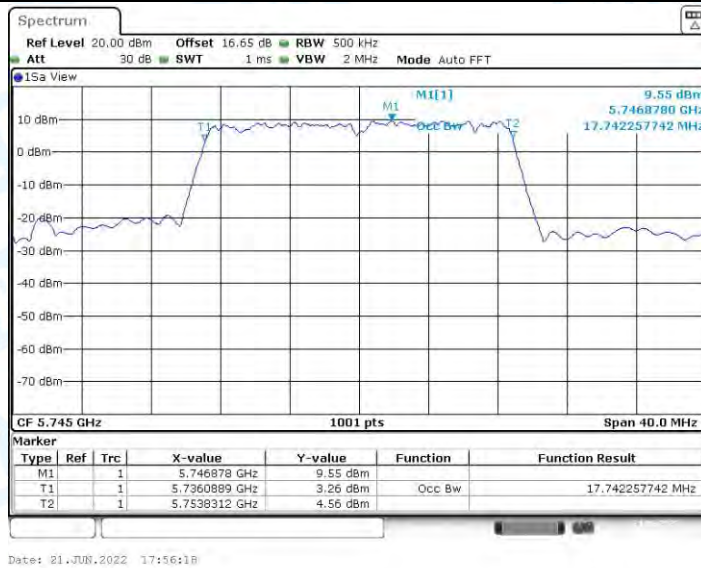
11A_Ant2_5580



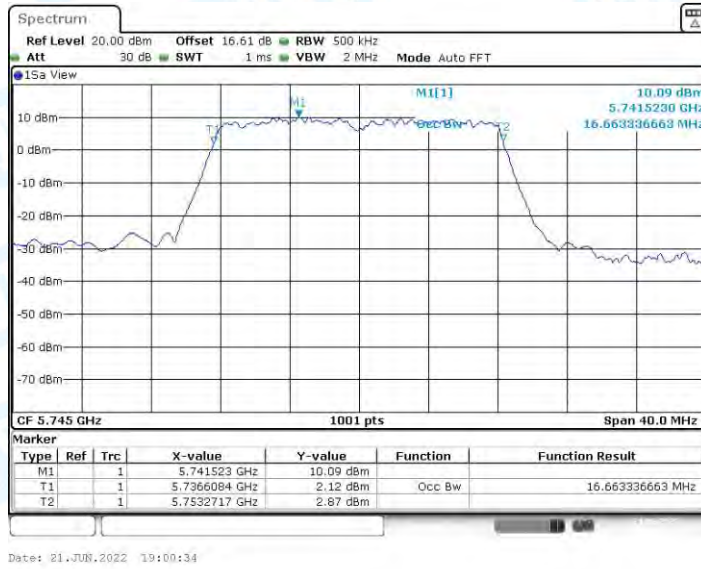
11A_Ant1_5700



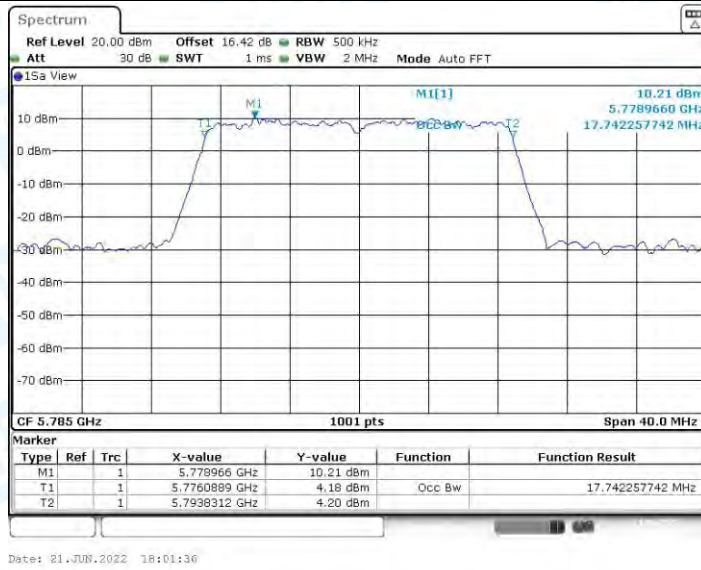
11A_Ant2_5700



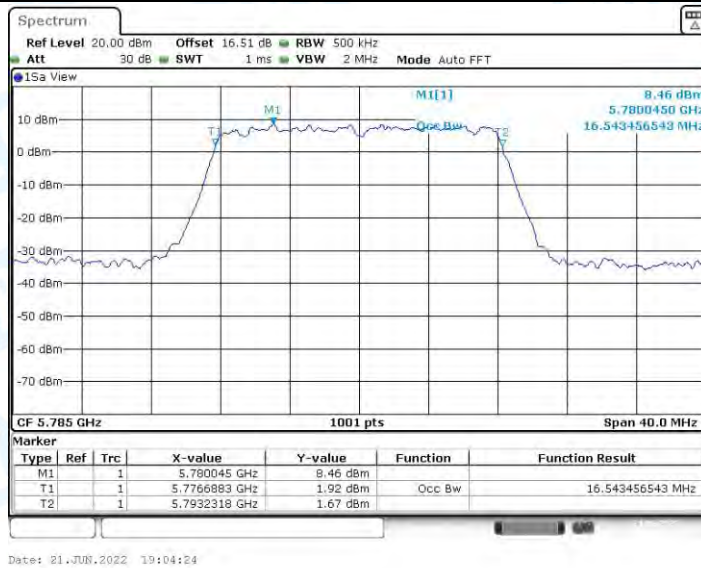
11A_Ant1_5745



11A_Ant2_5745



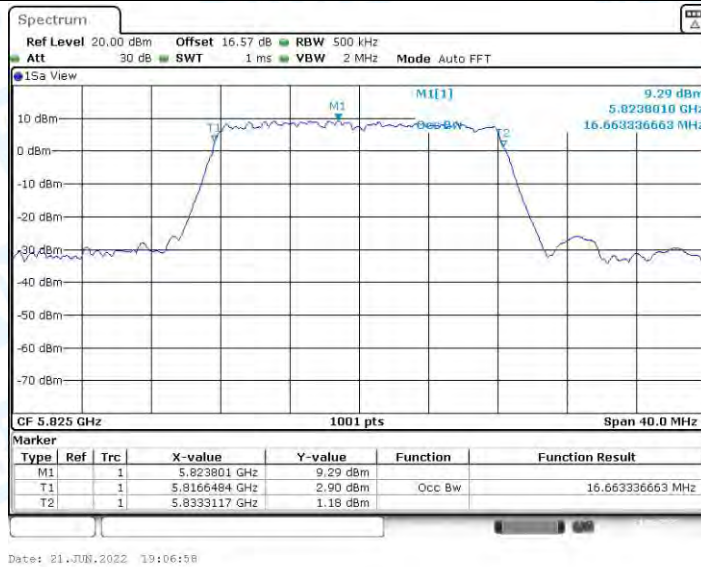
11A_Ant1_5785



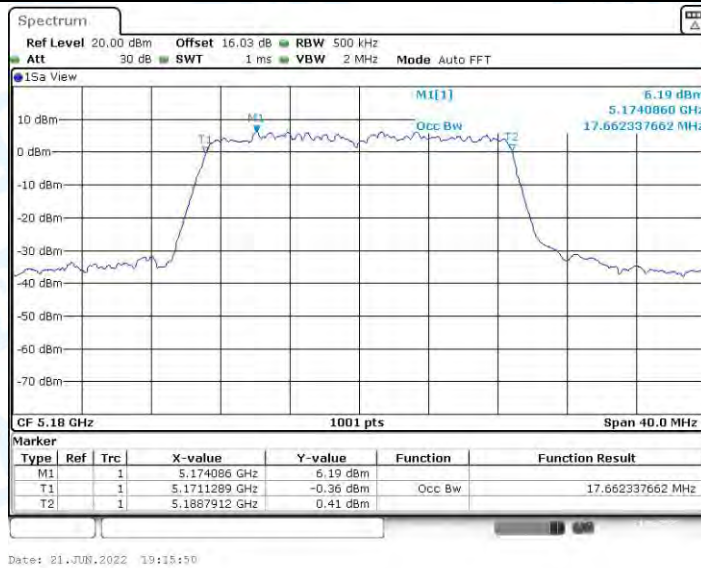
11A_Ant2_5785



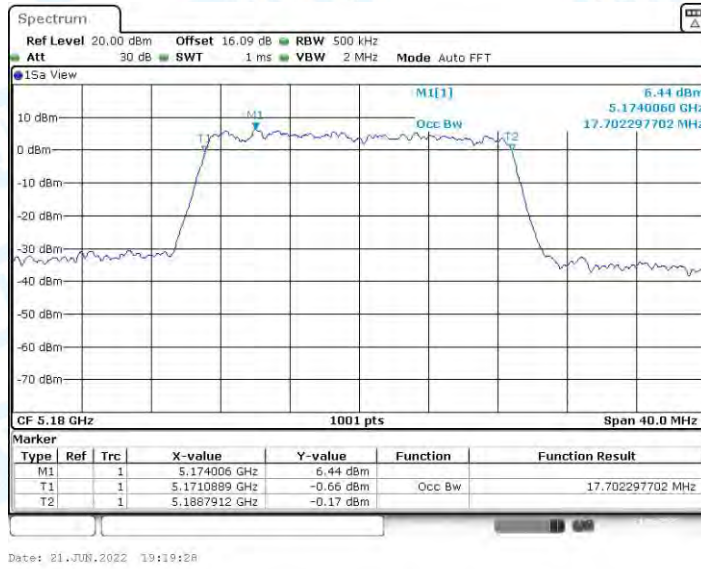
11A_Ant1_5825



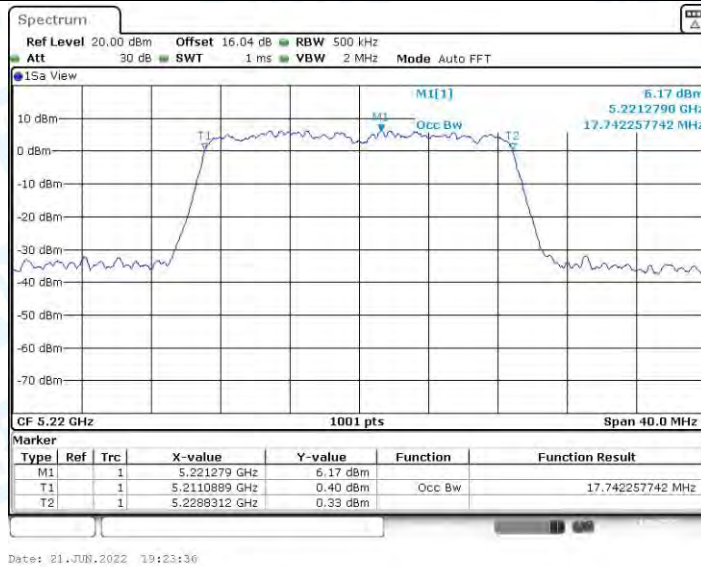
11A_Ant2_5825



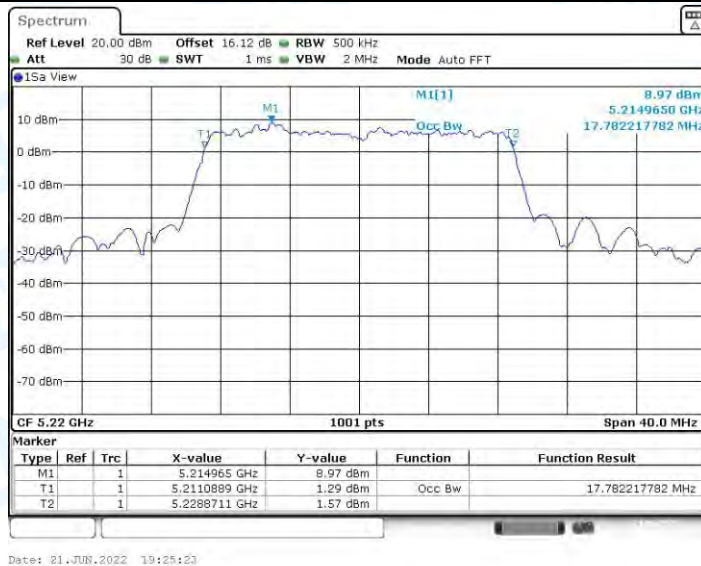
11N20MIMO_Ant1_5180



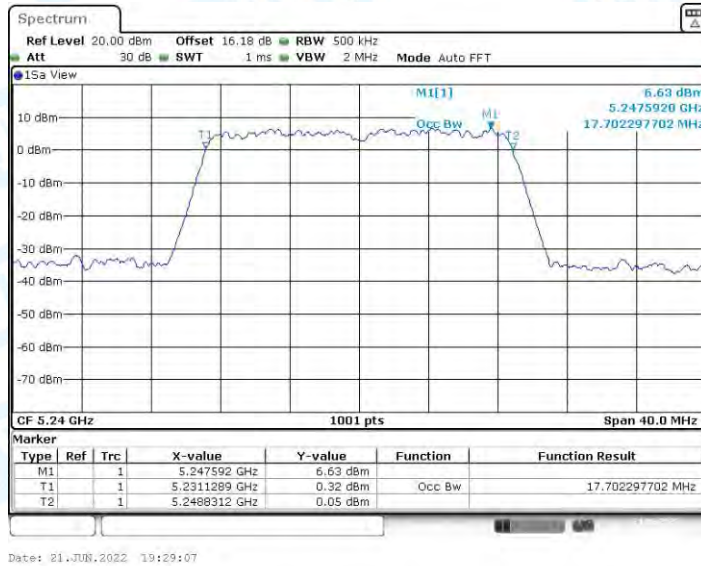
11N20MIMO_Ant2_5180



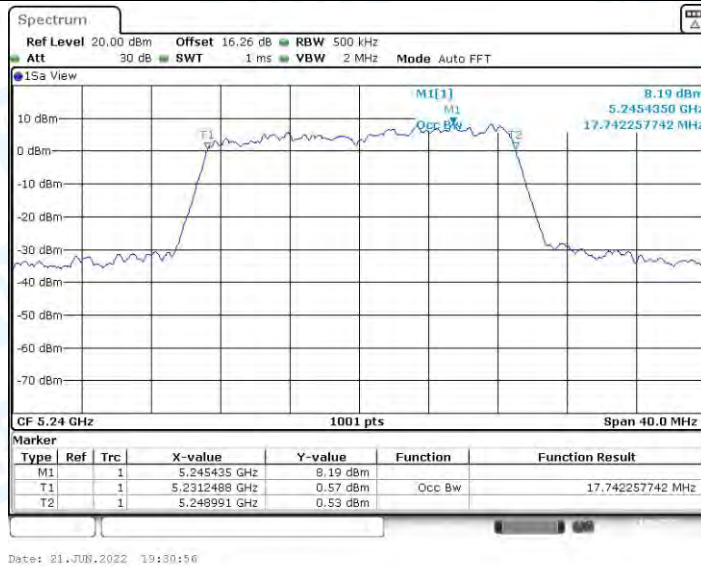
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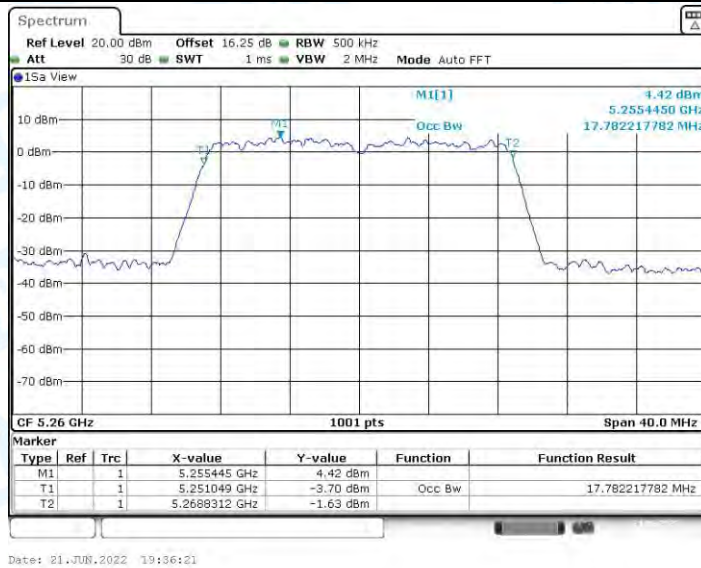
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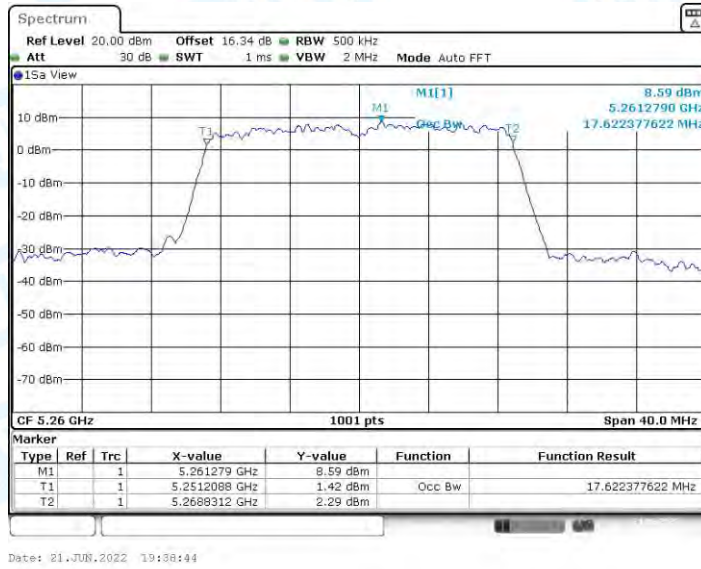
11N20MIMO_Ant1_5240



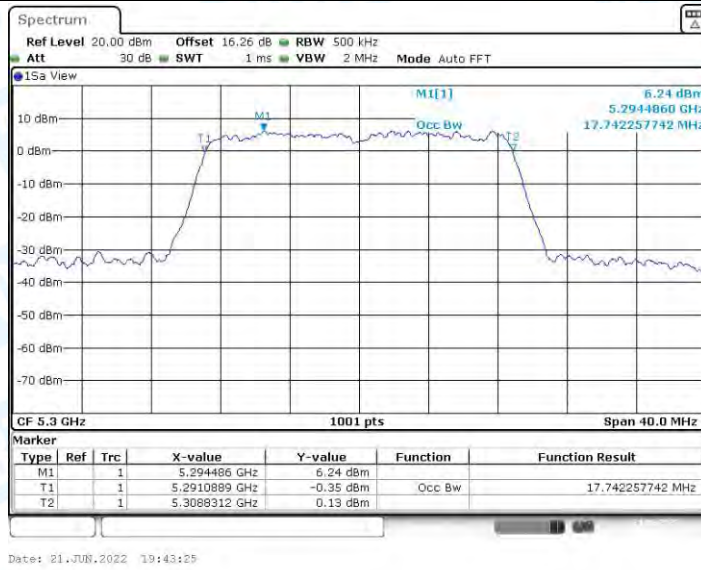
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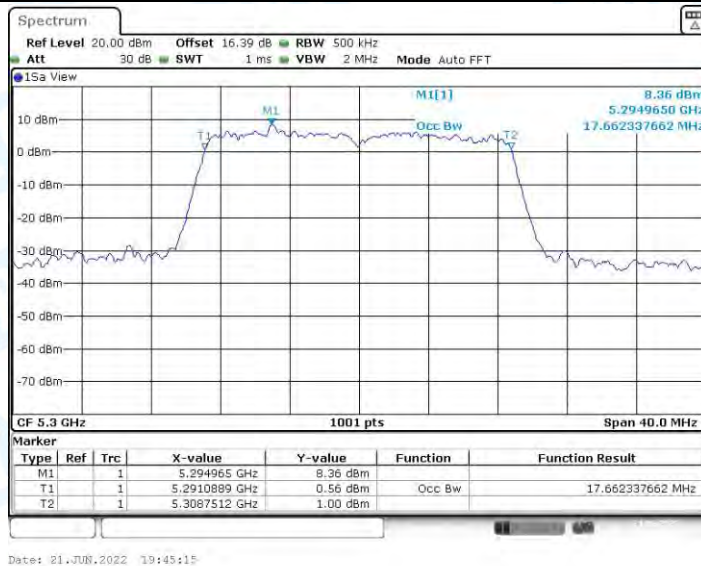
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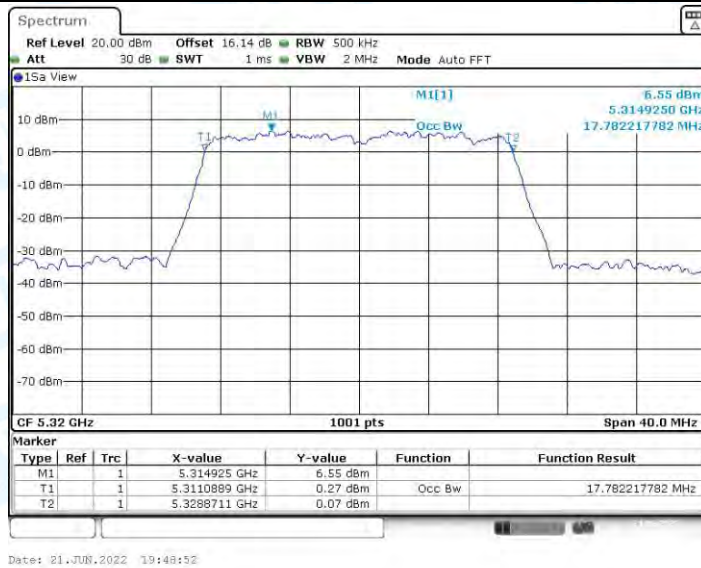
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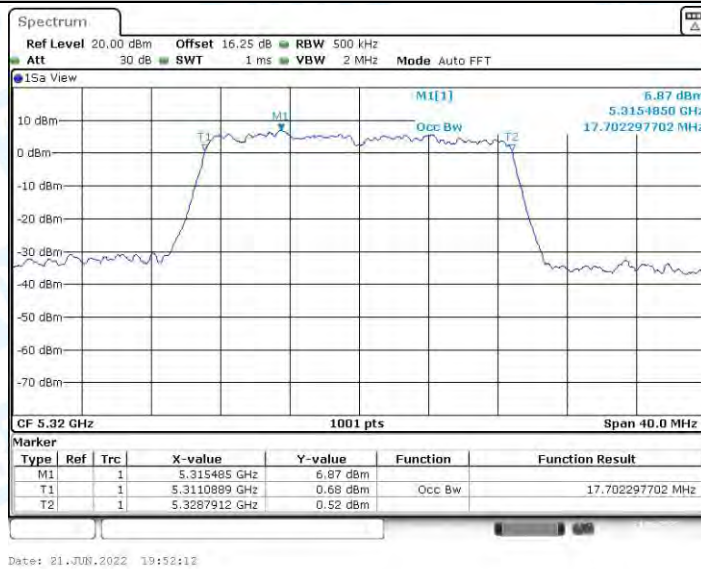
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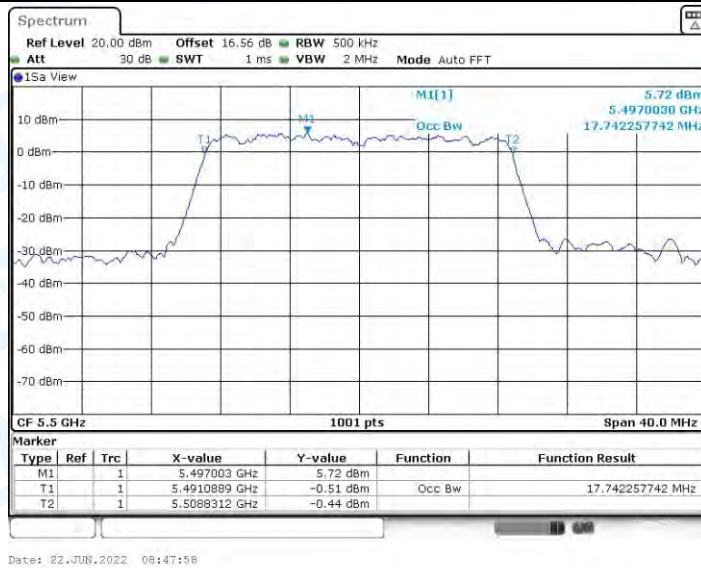
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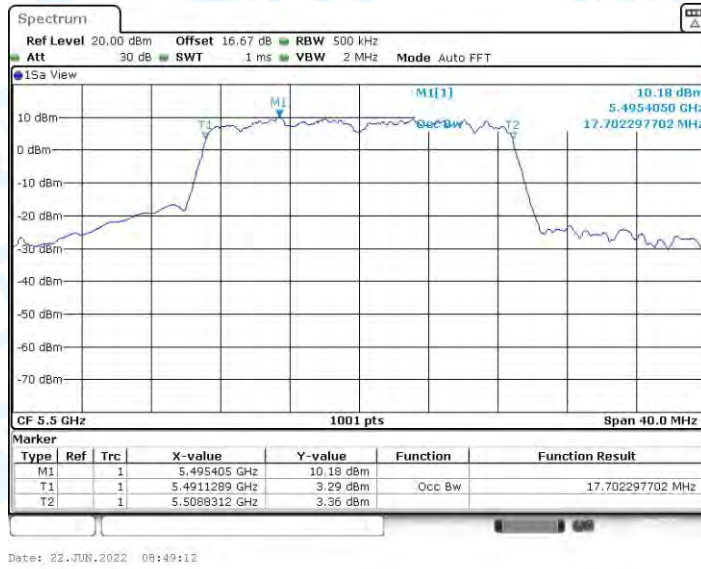
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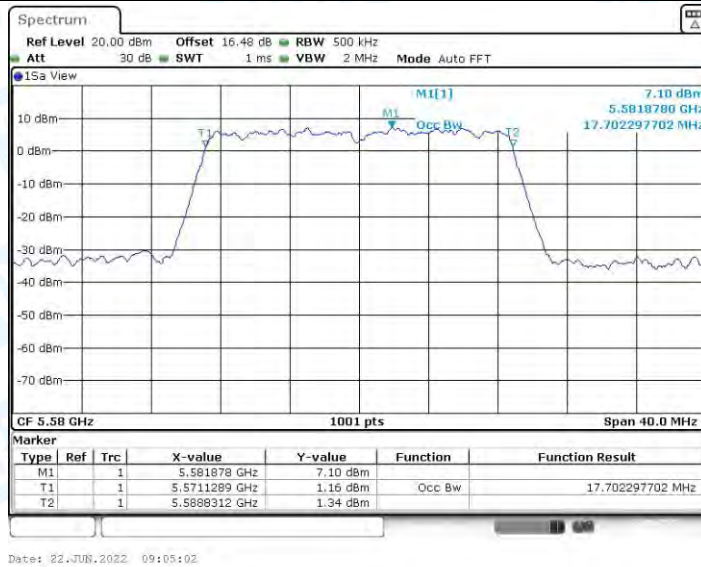
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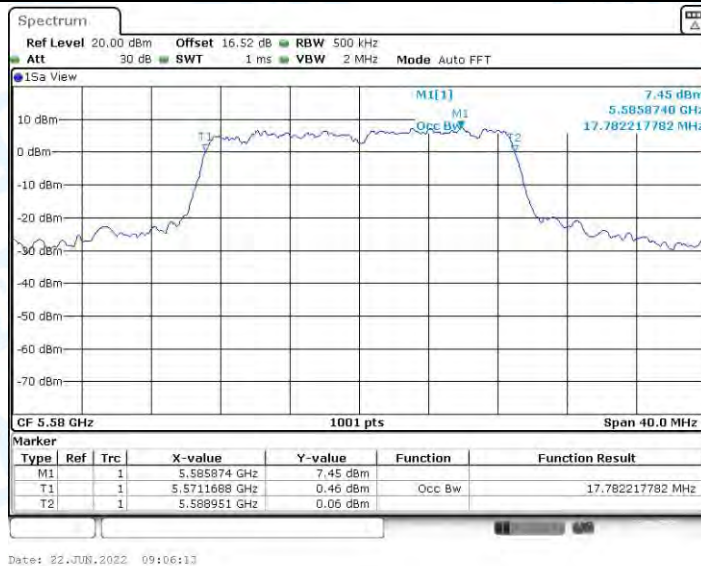
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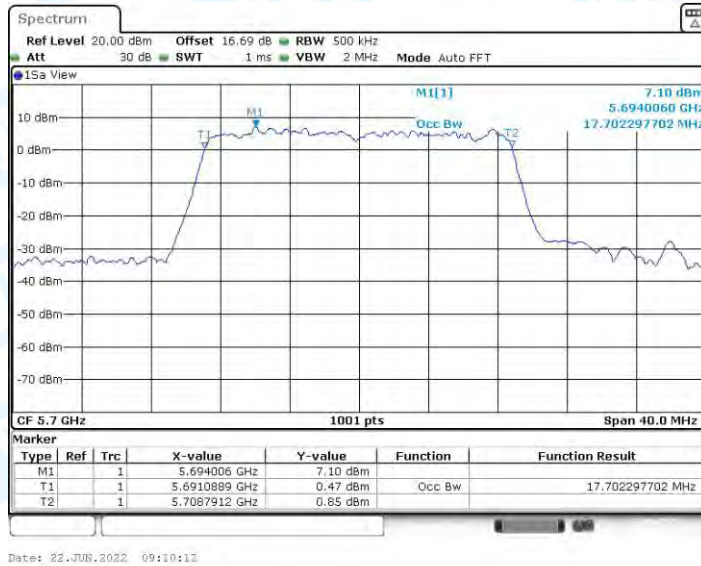
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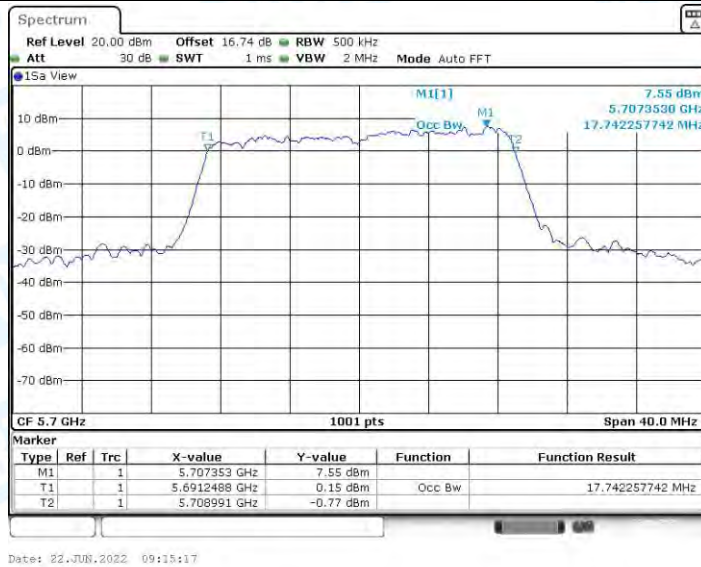
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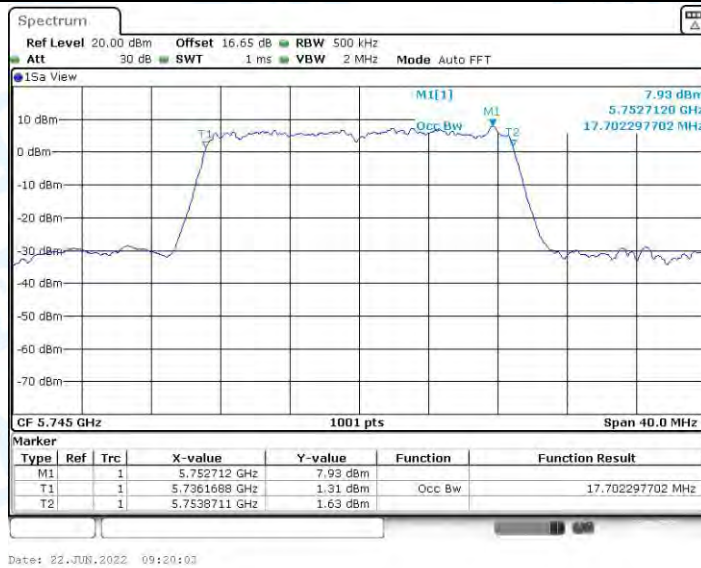
11N20MIMO_Ant2_5580



11N20MIMO_Ant1_5700



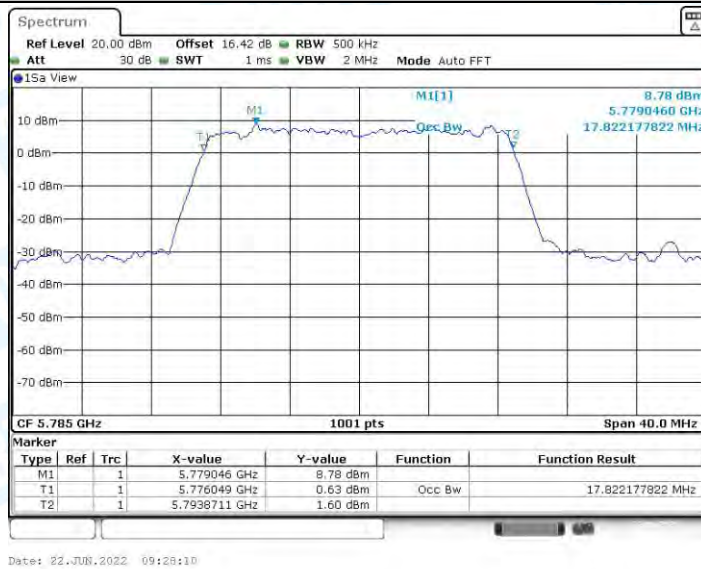
11N20MIMO_Ant2_5700



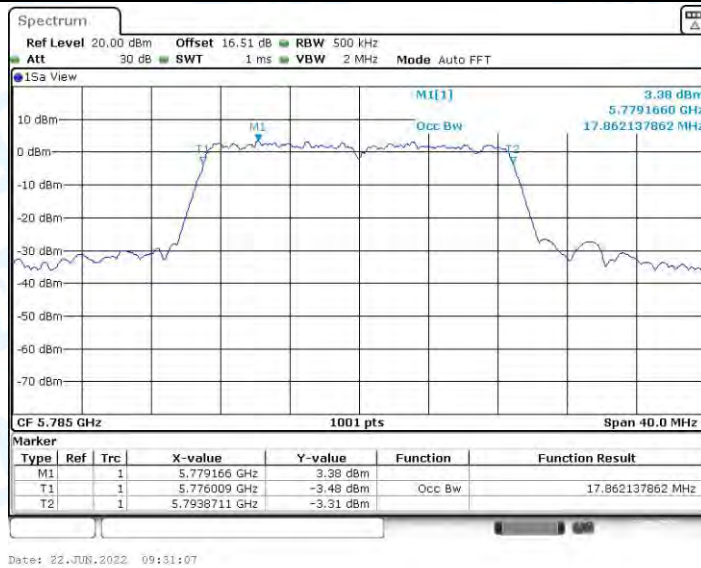
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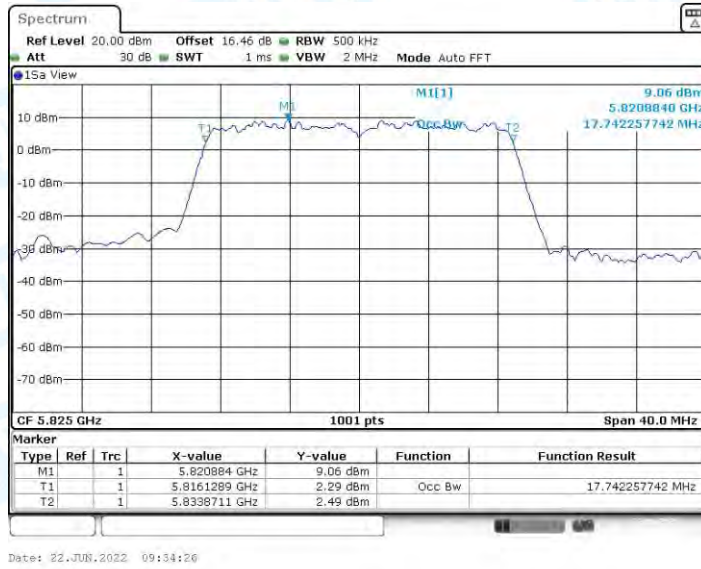
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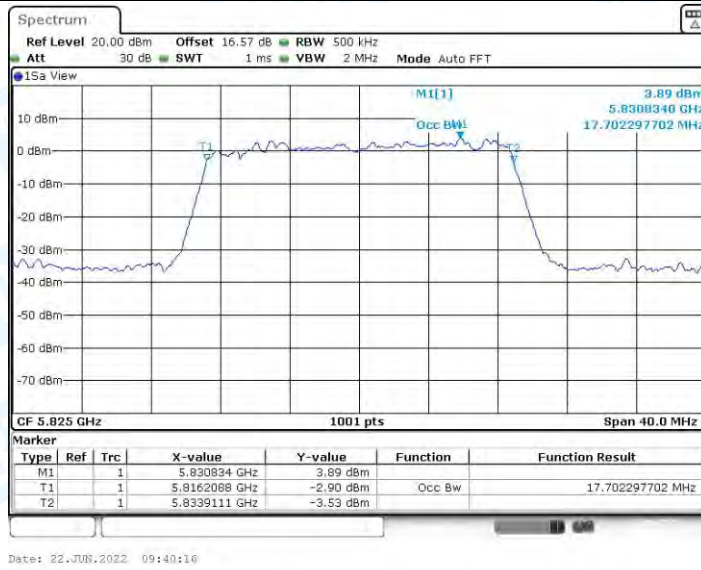
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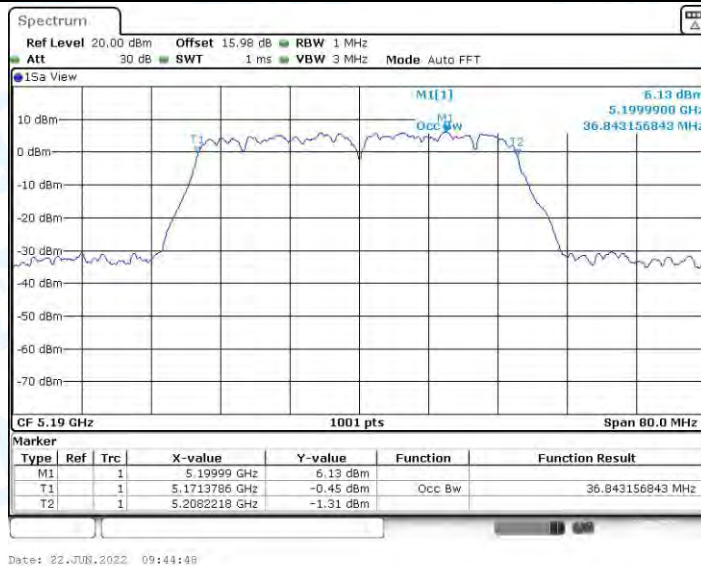
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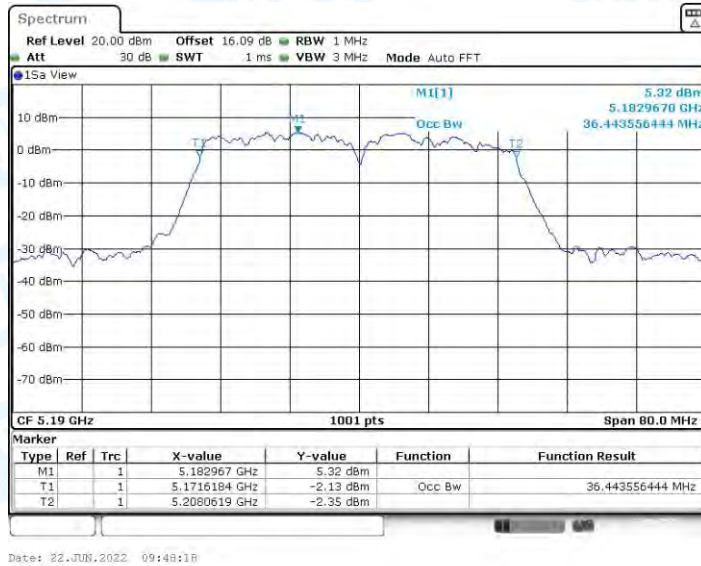
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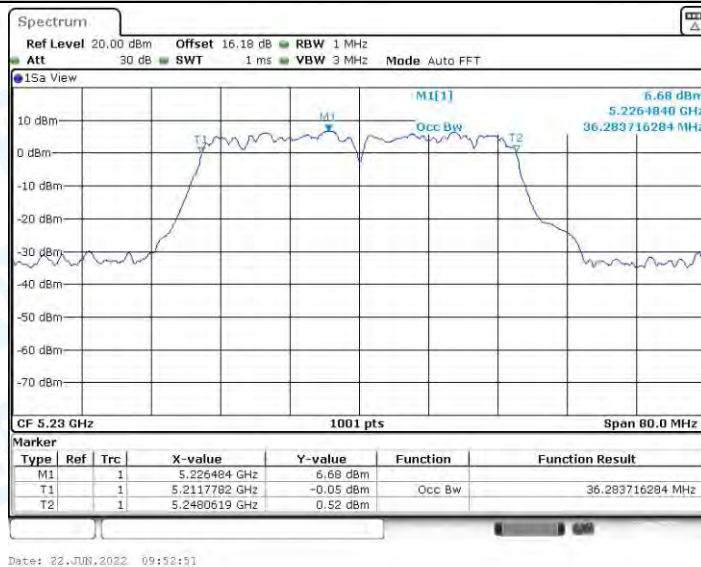
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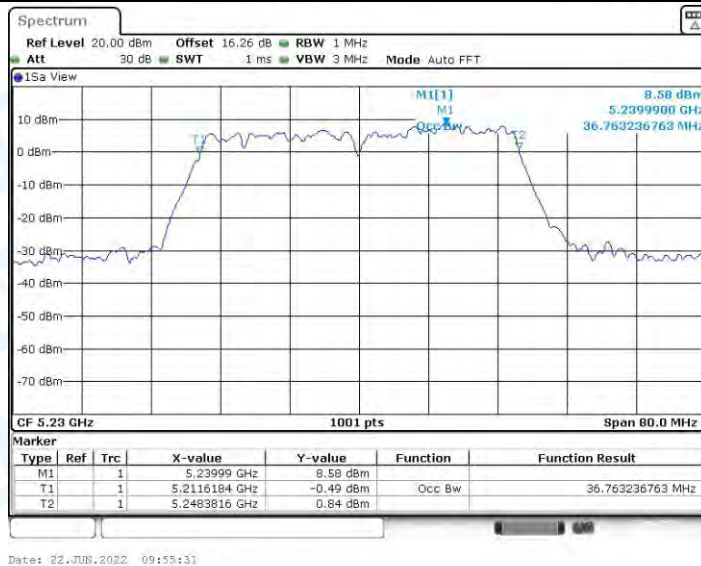
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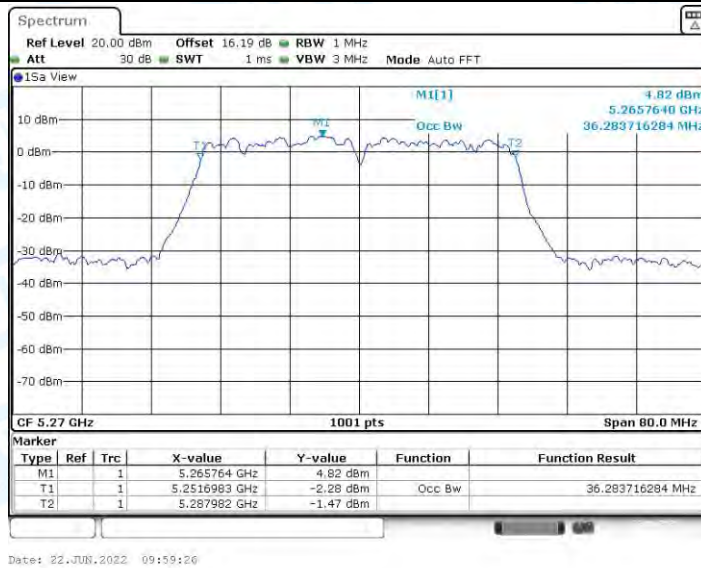
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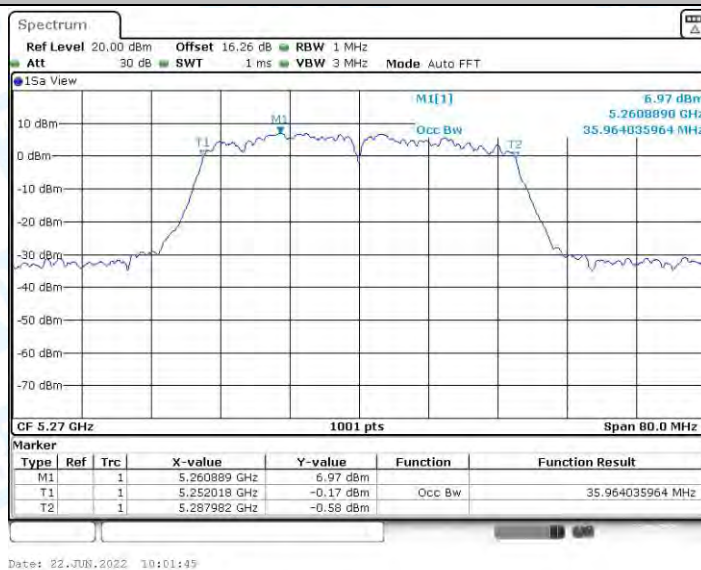
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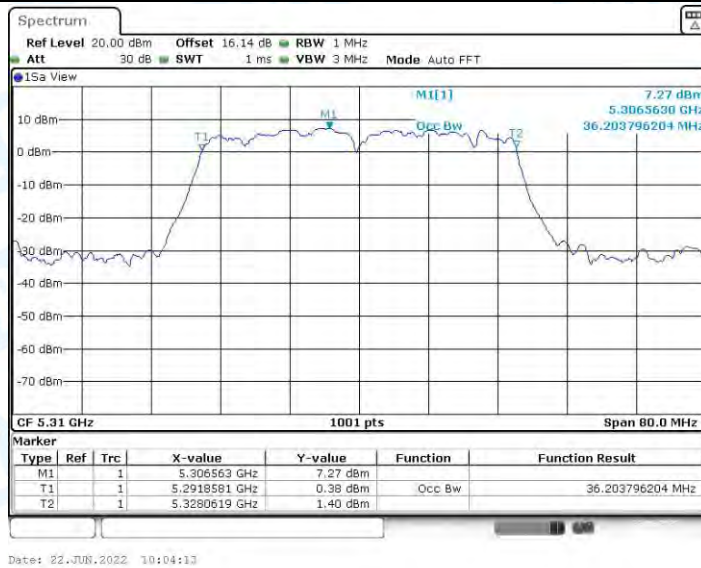
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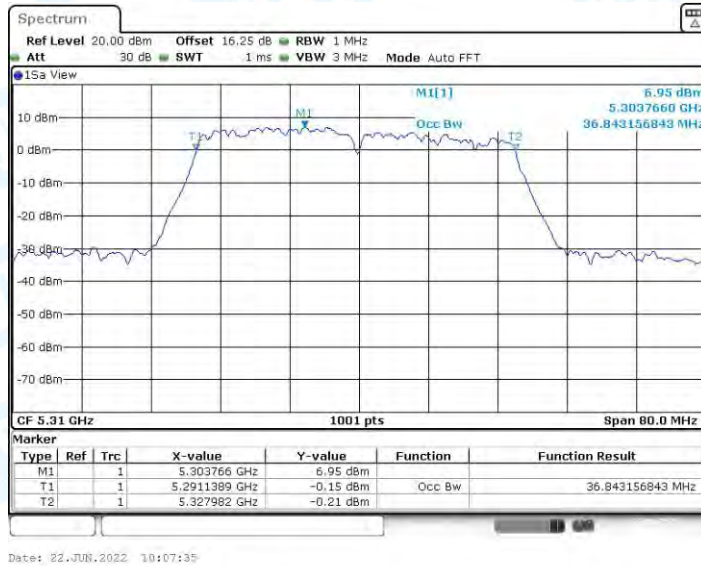
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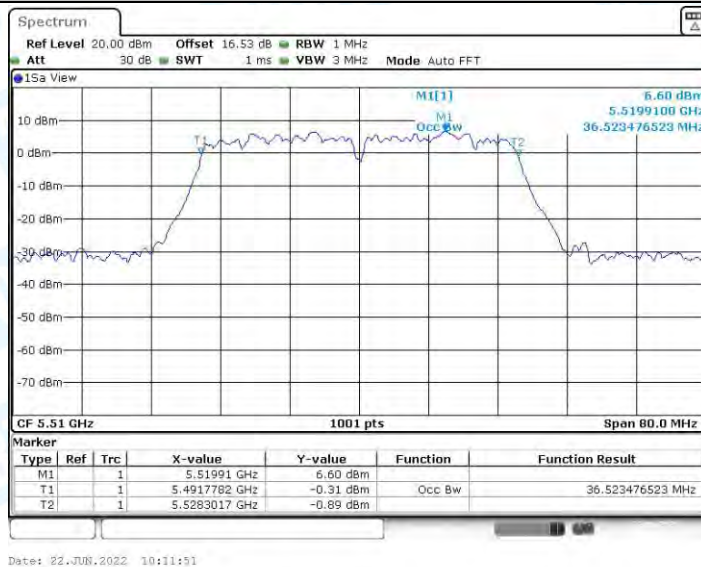
11N40MIMO_Ant2_5270



11N40MIMO_Ant1_5310



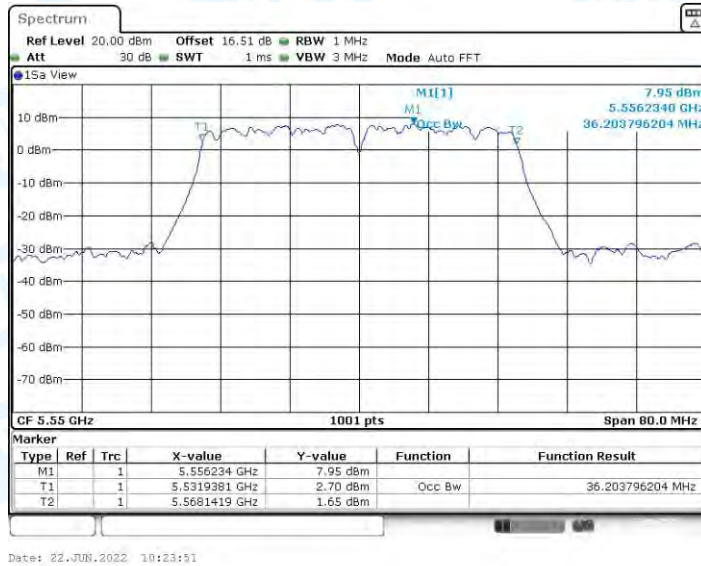
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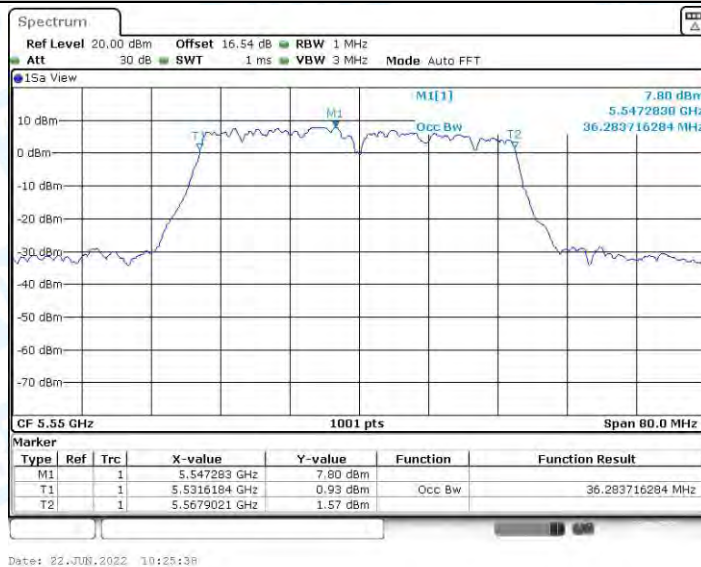
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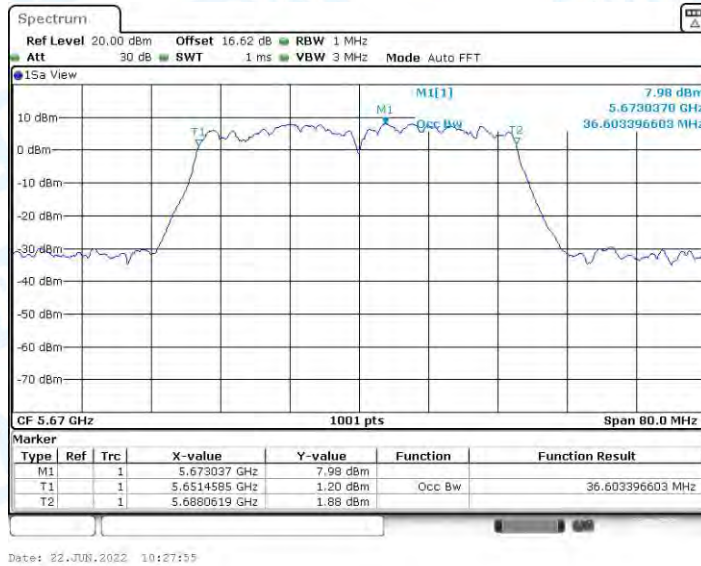
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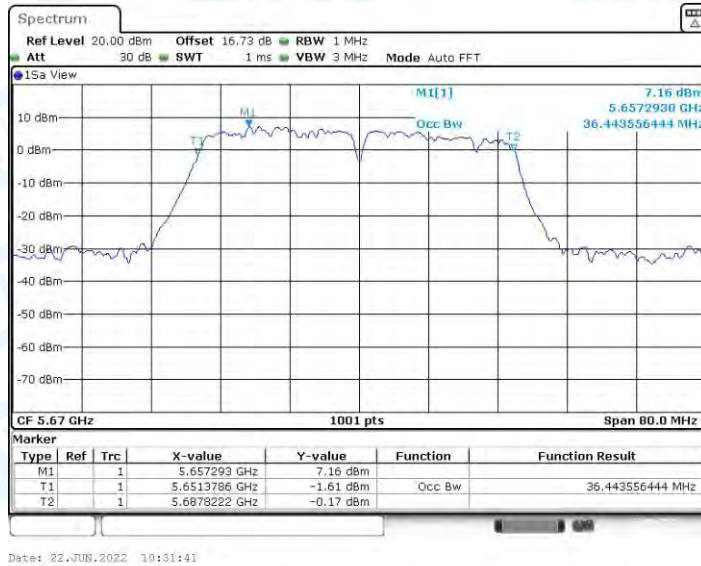
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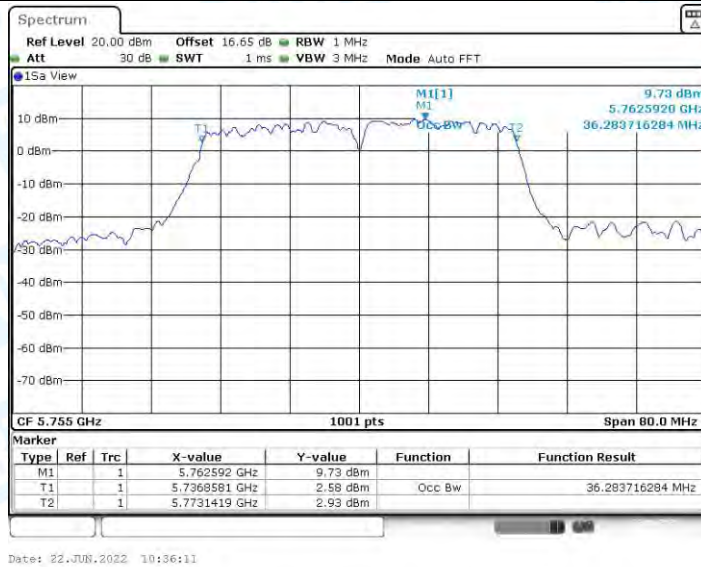
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11N40MIMO_Ant1_5670



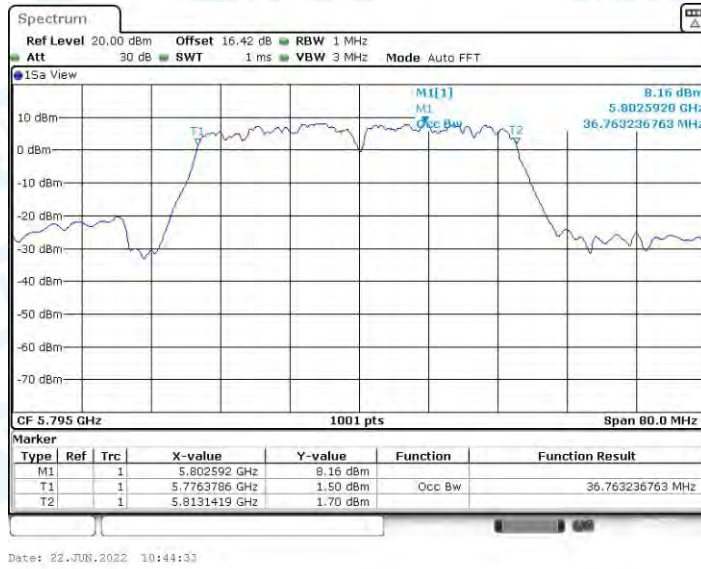
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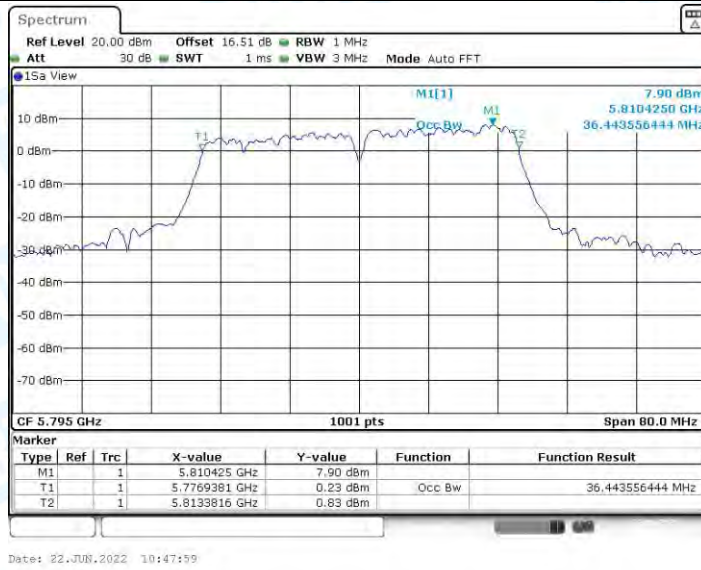
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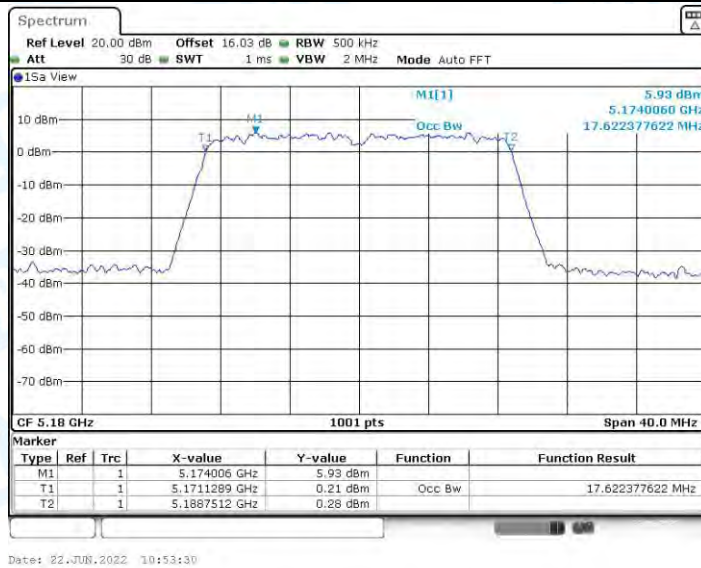
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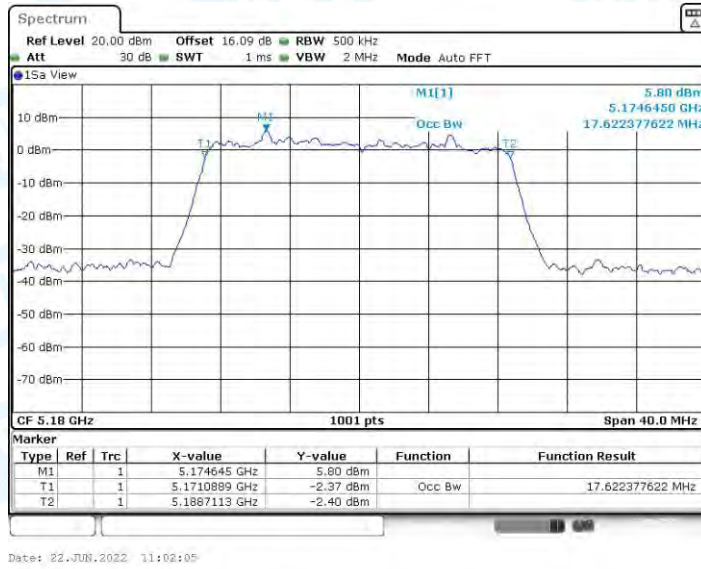
11N40MIMO_Ant1_5795



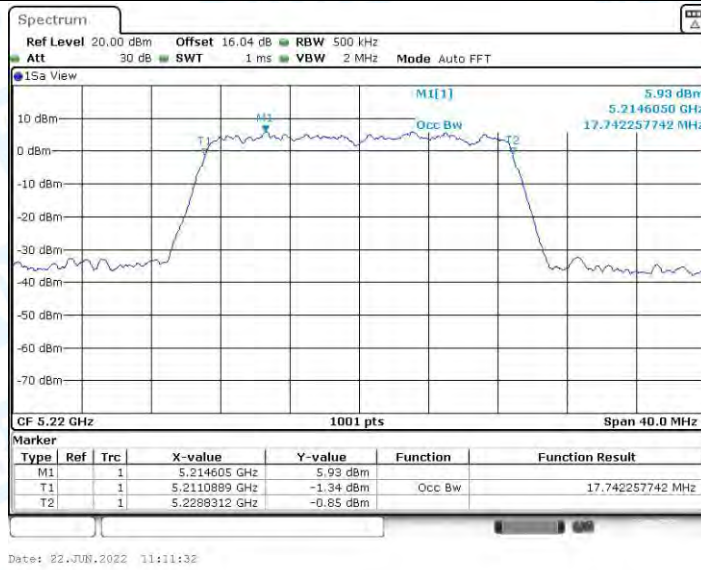
11N40MIMO_Ant2_5795



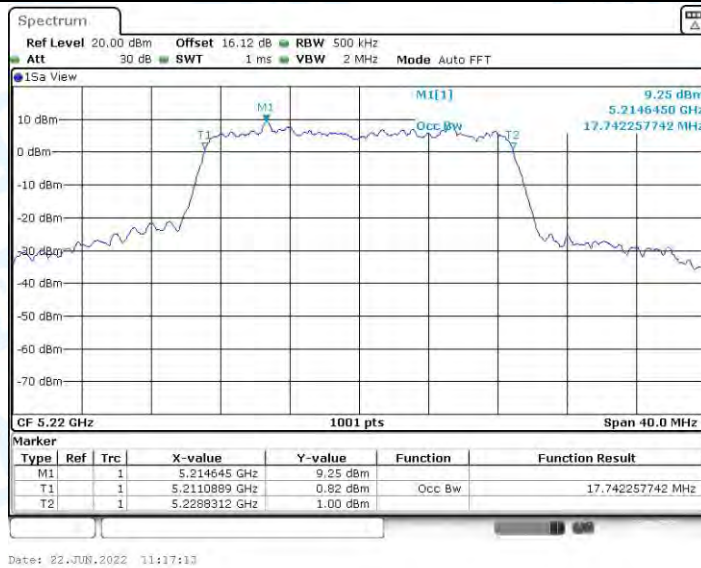
11AC20MIMO_Ant1_5180



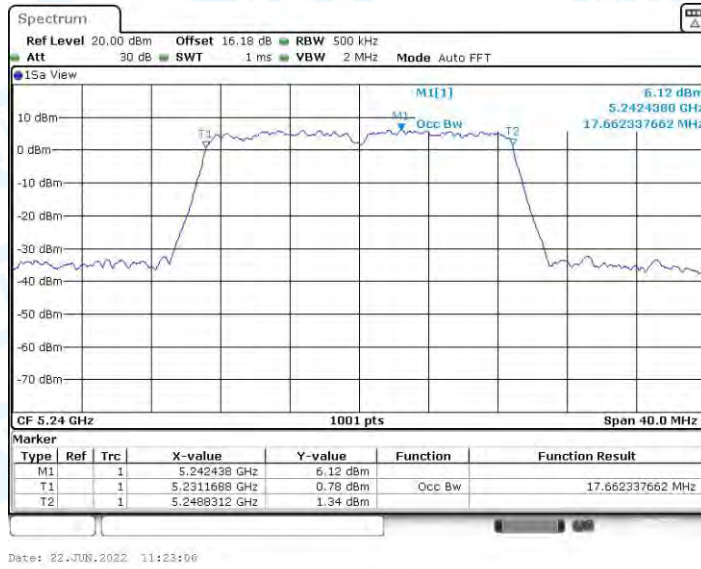
11AC20MIMO_Ant2_5180



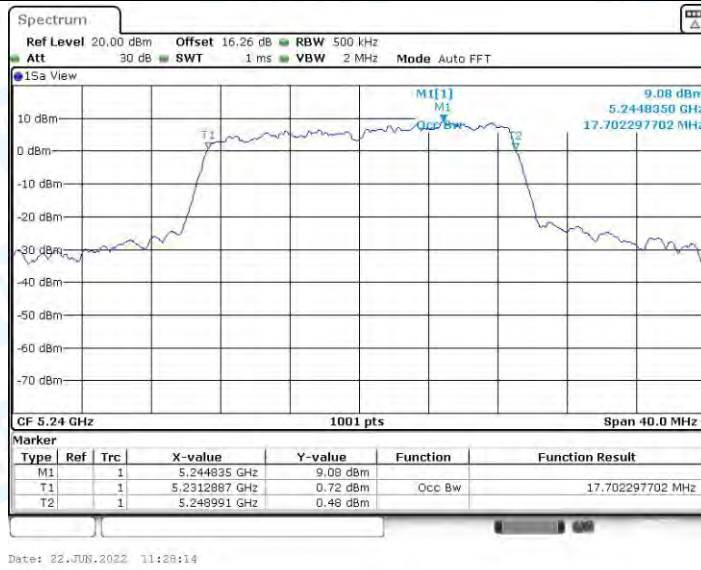
11AC20MIMO_Ant1_5220



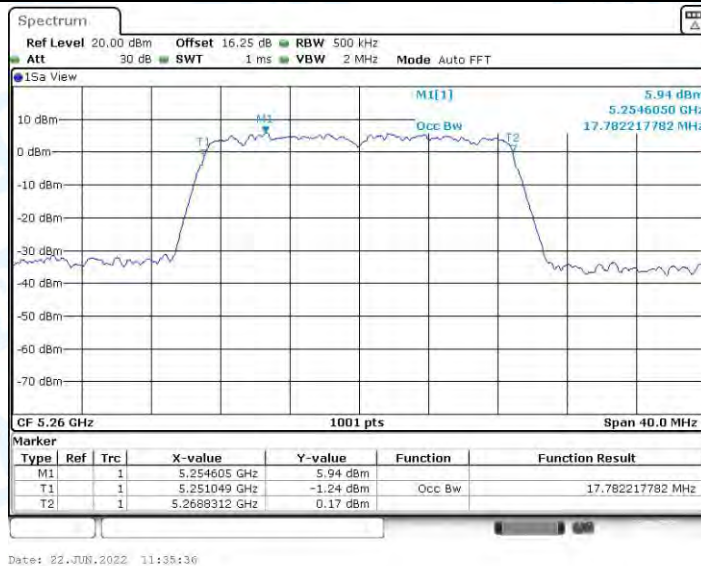
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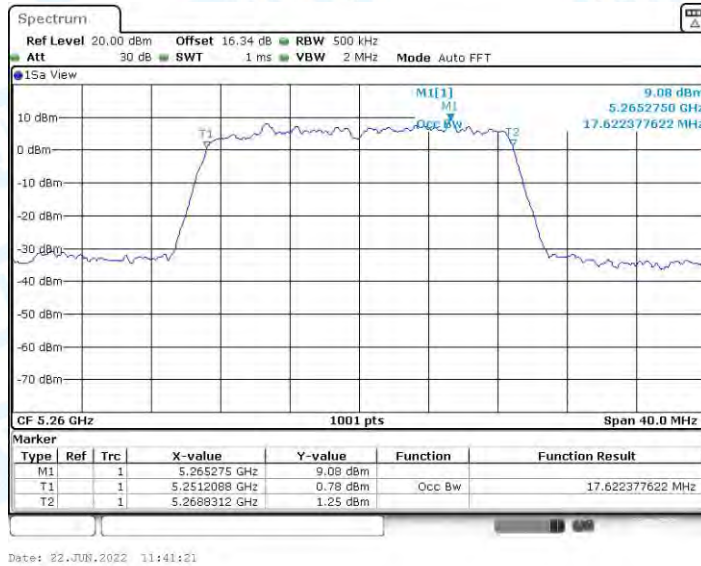
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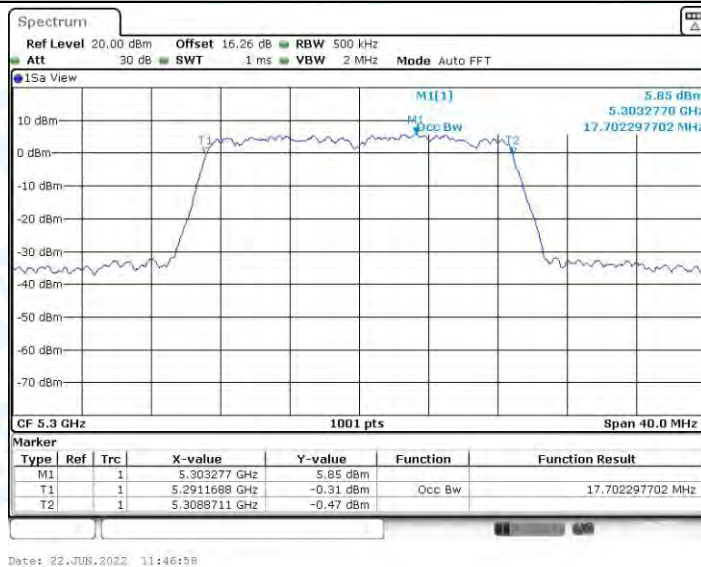
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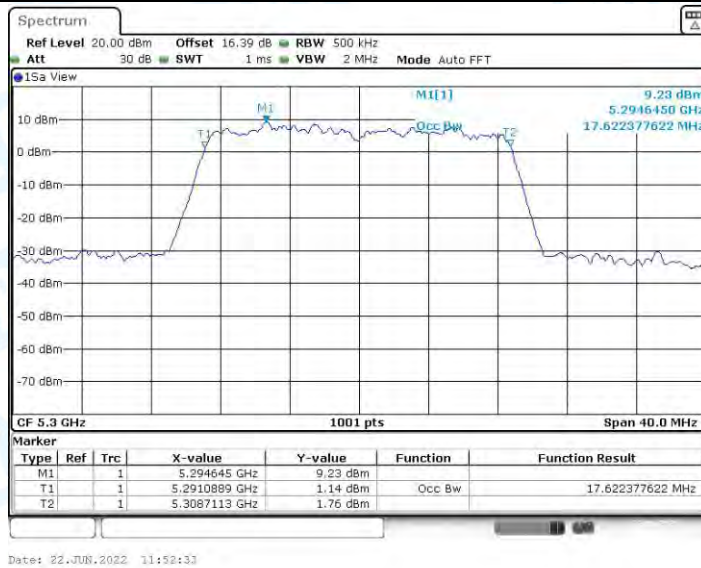
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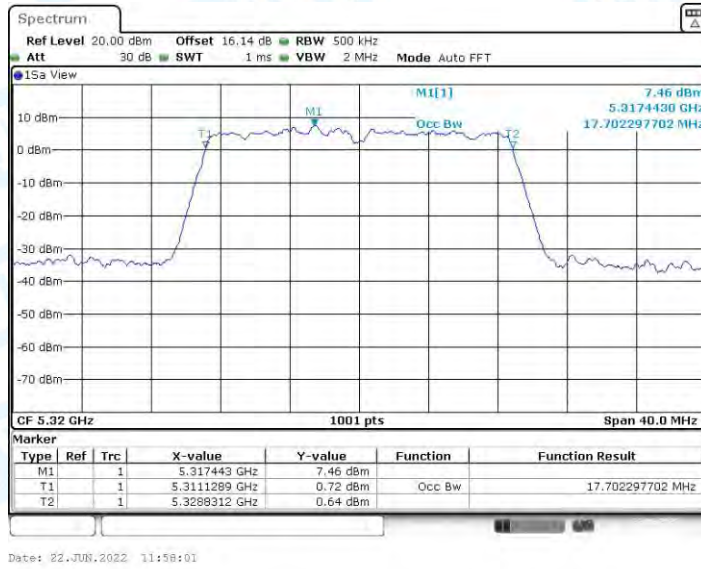
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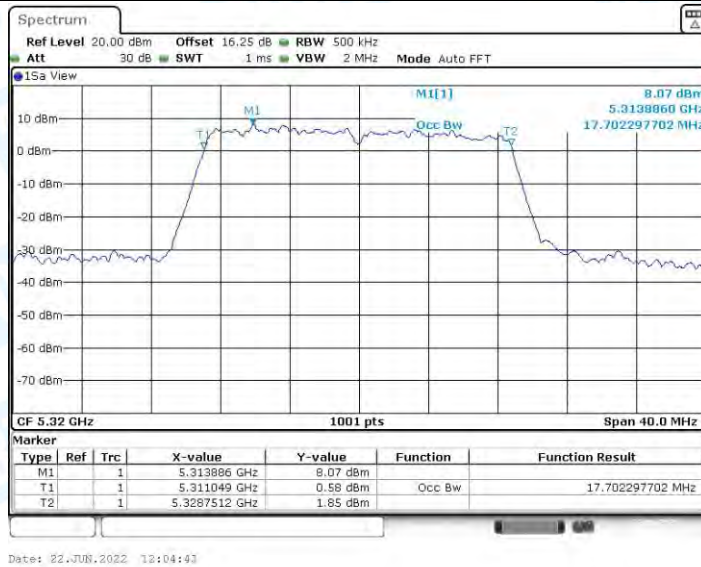
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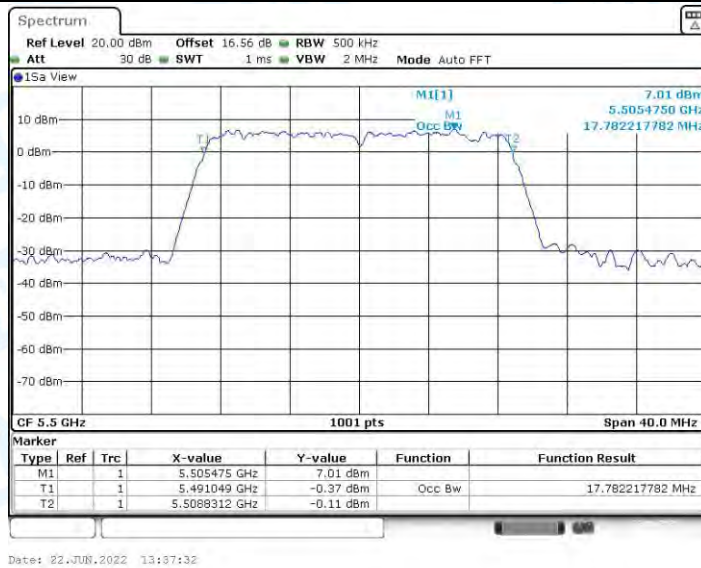
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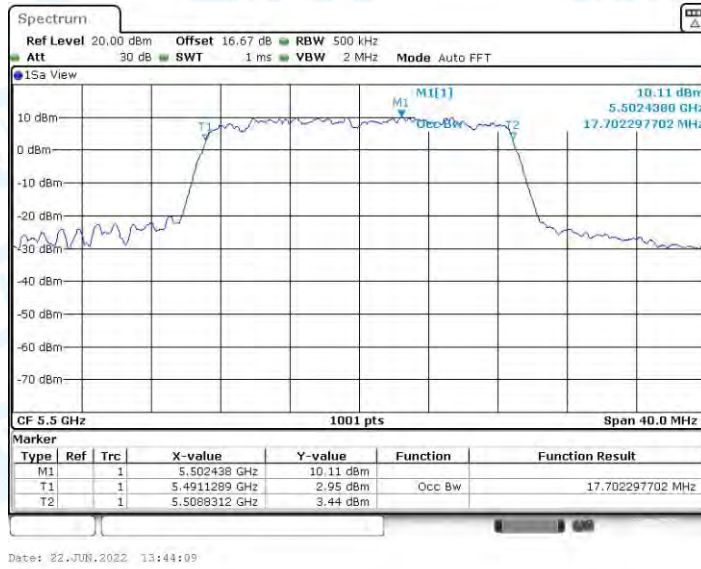
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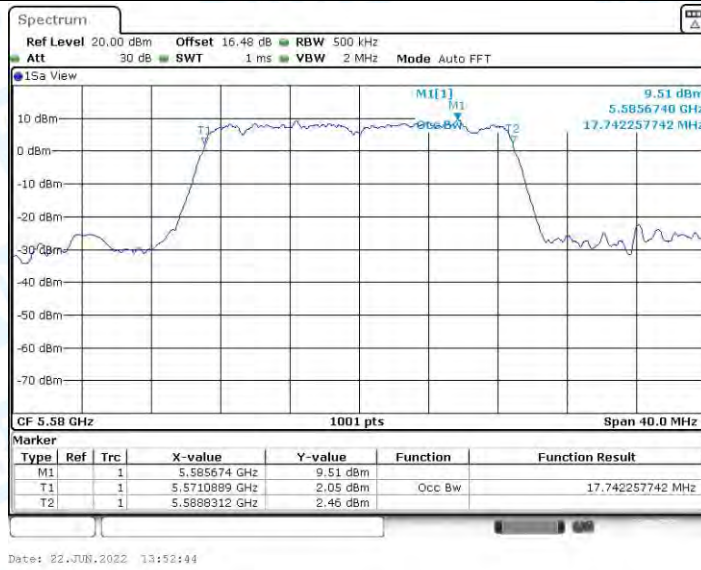
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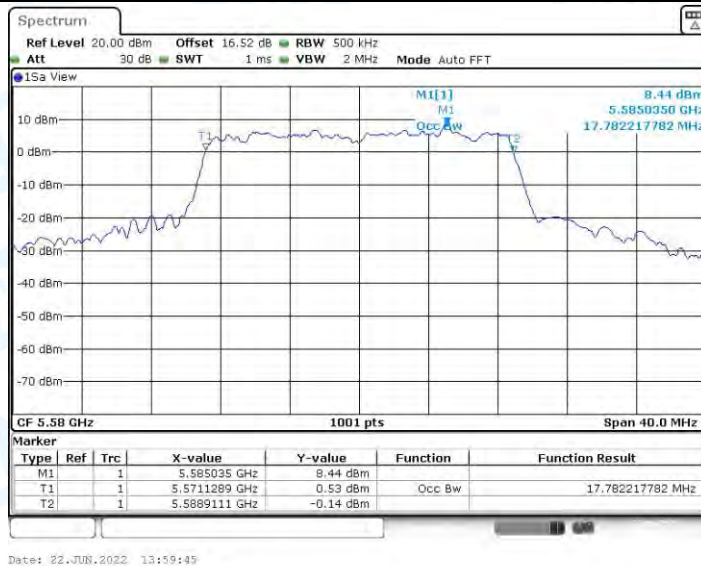
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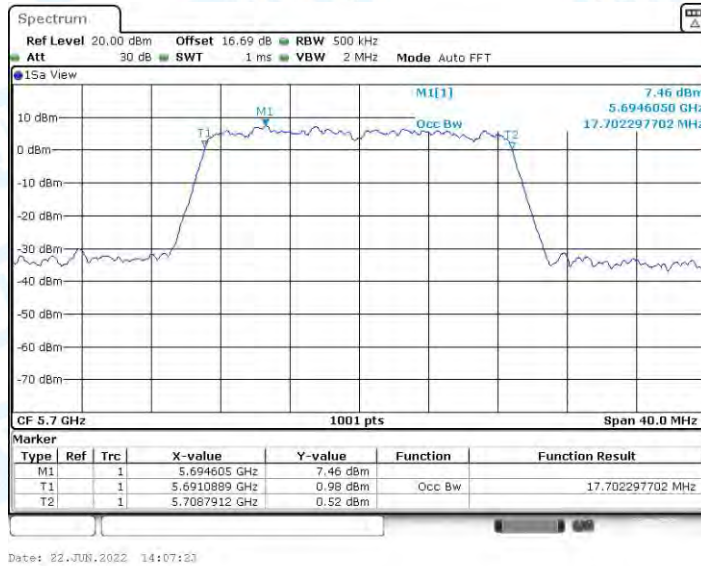
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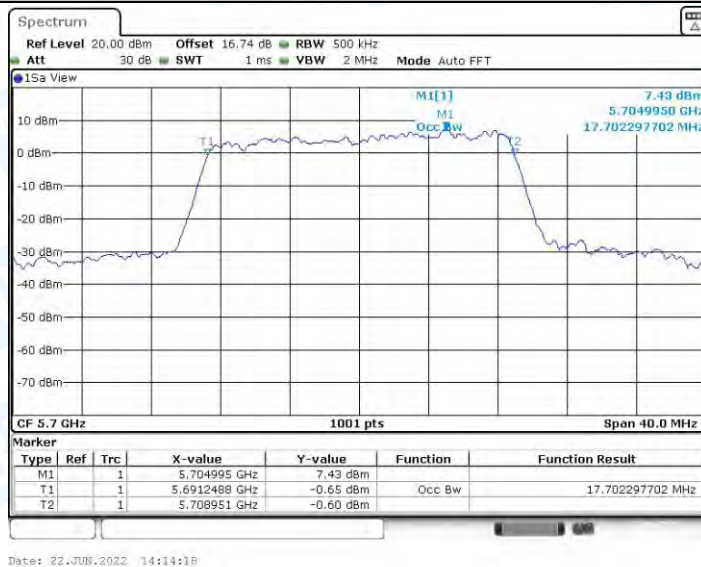
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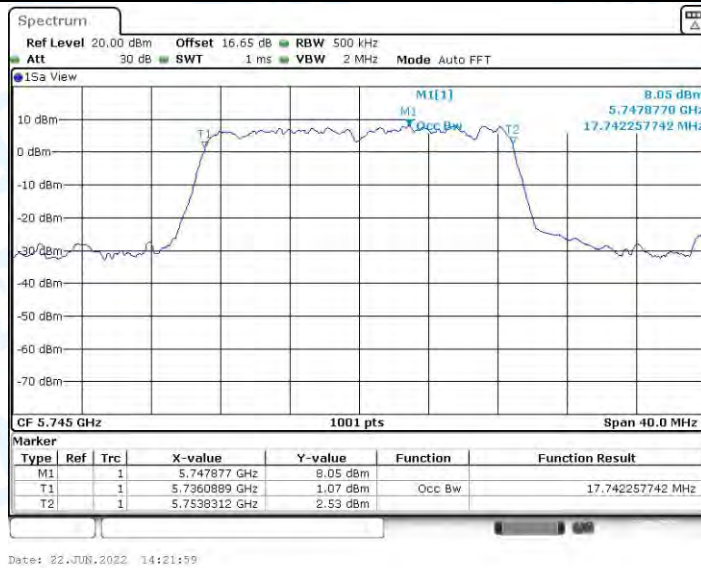
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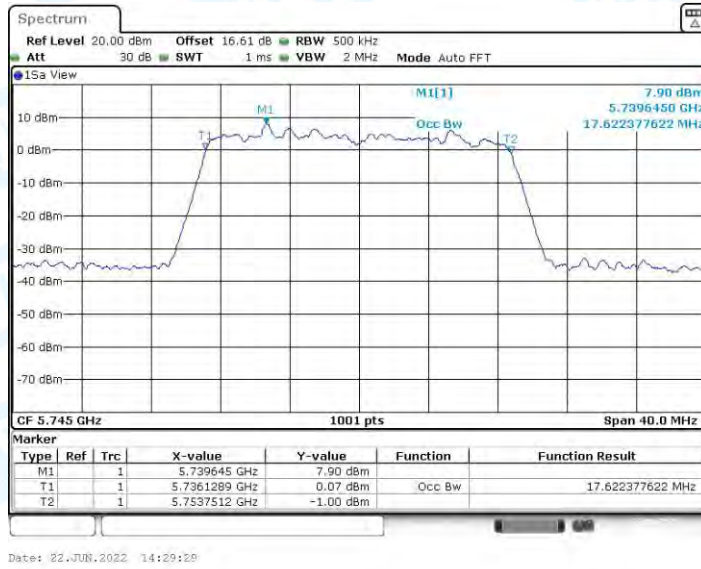
11AC20MIMO_Ant1_5700



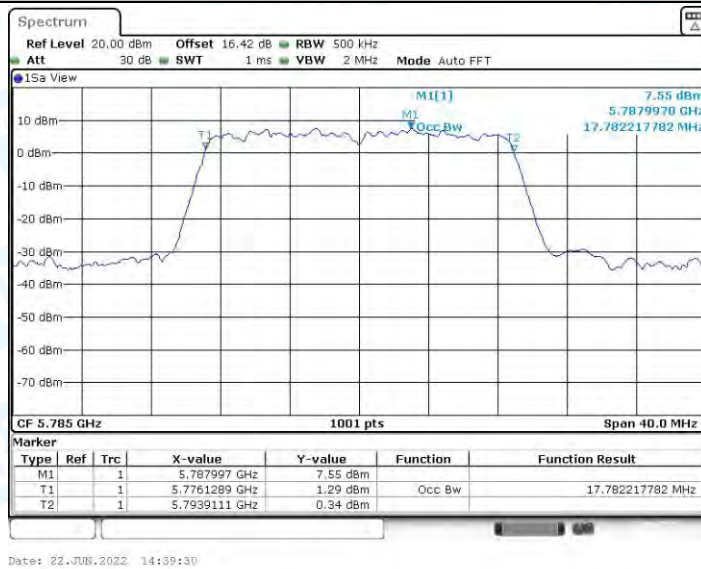
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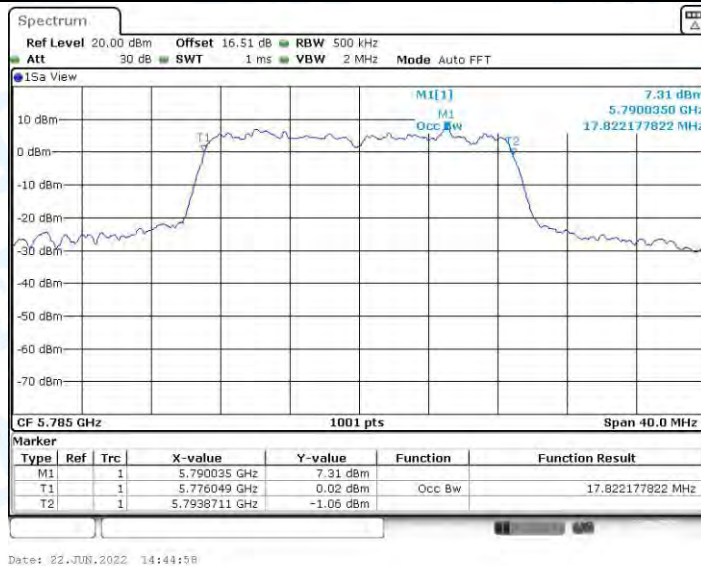
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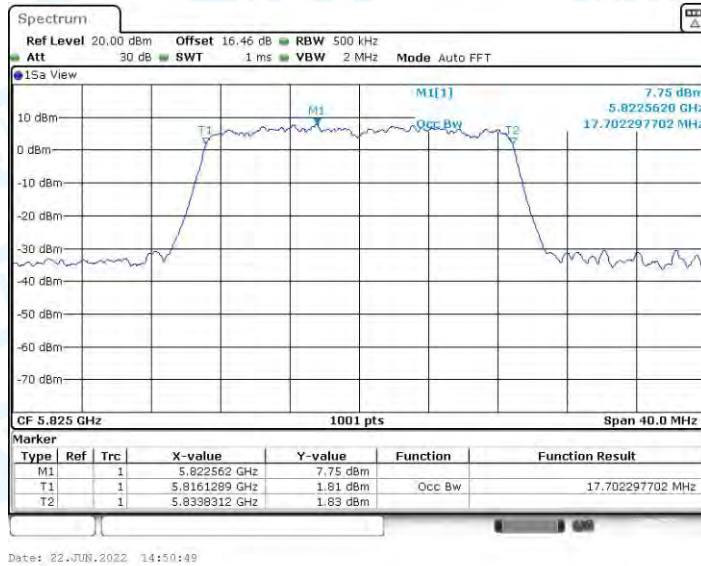
11AC20MIMO_Ant2_5745



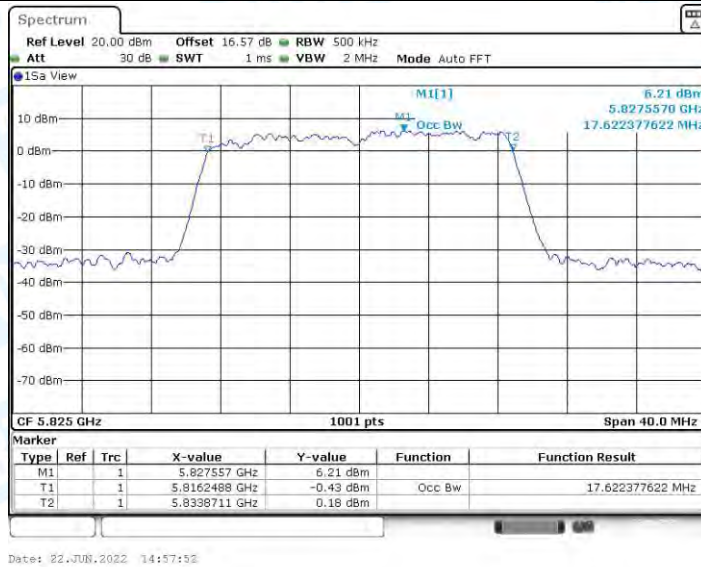
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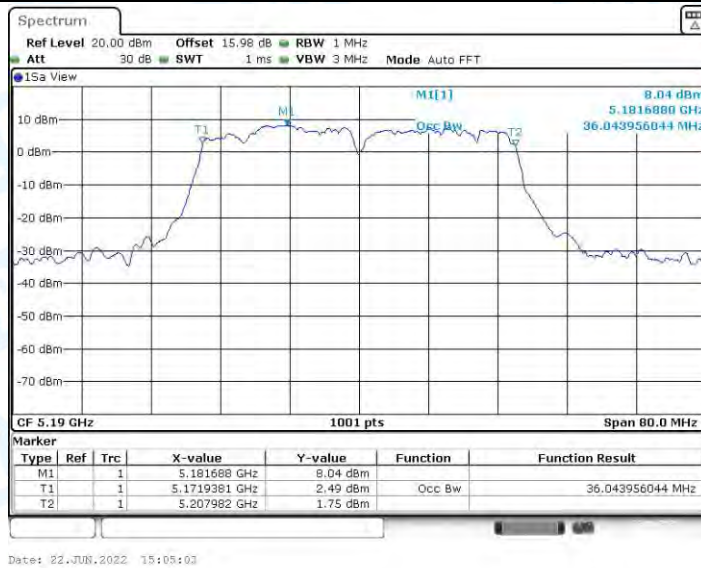
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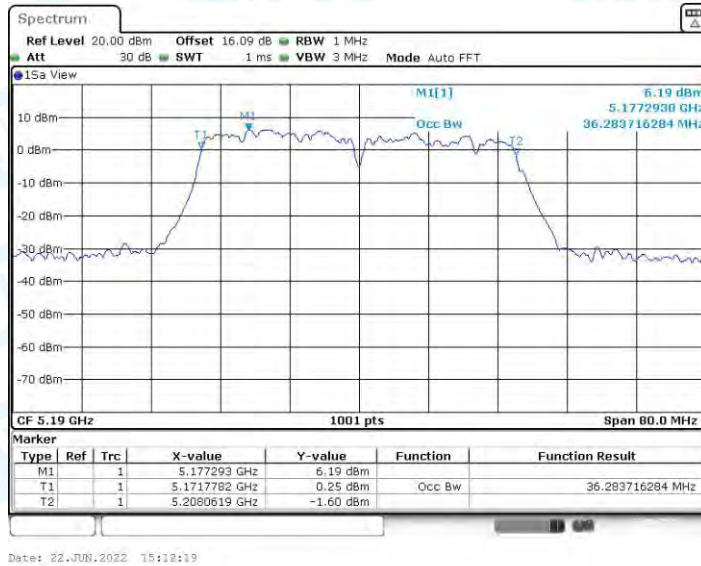
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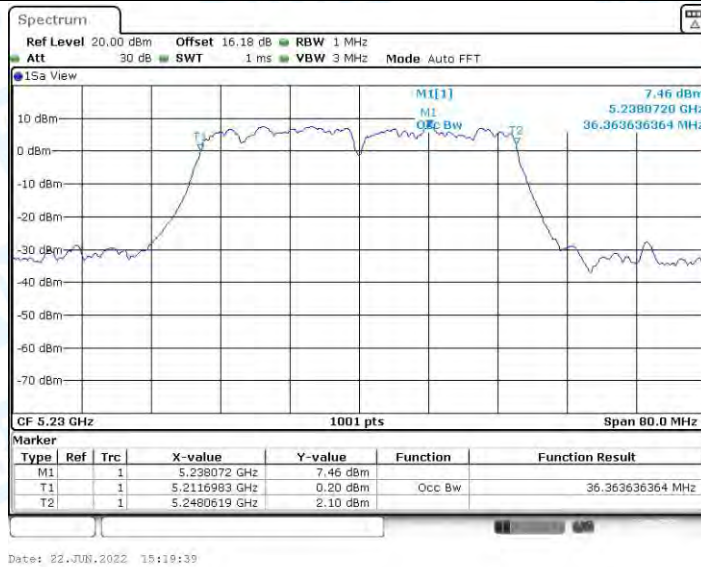
11AC20MIMO_Ant2_5825



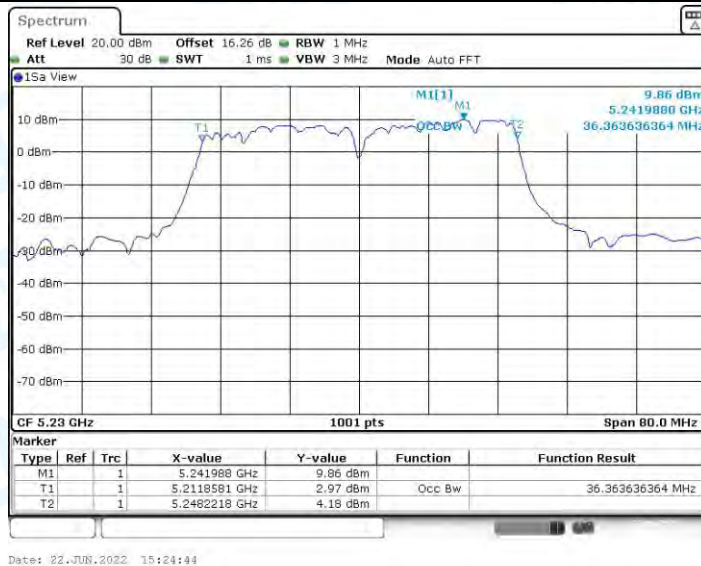
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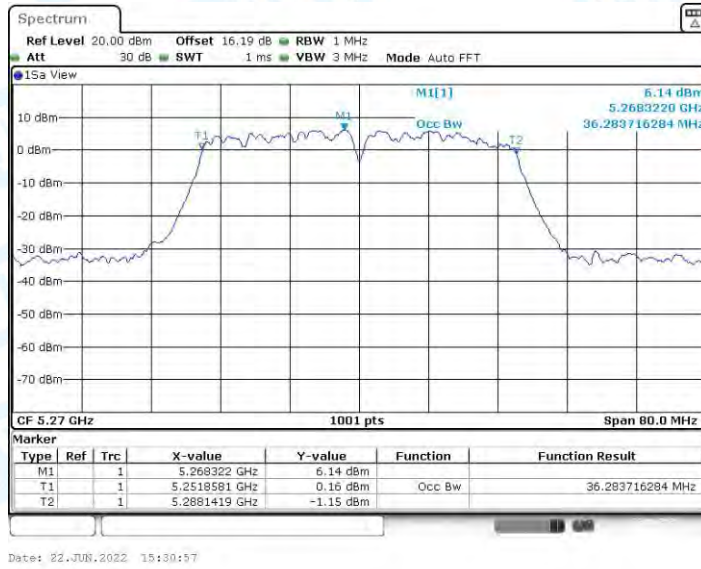
11AC40MIMO_Ant2_5190



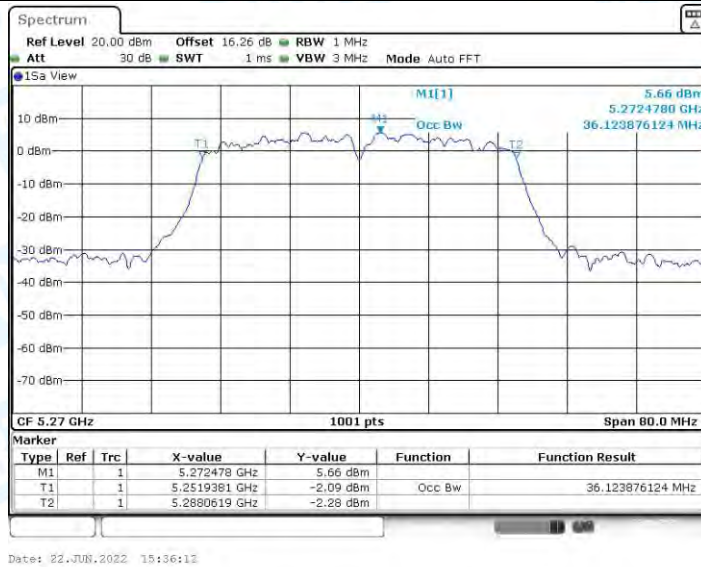
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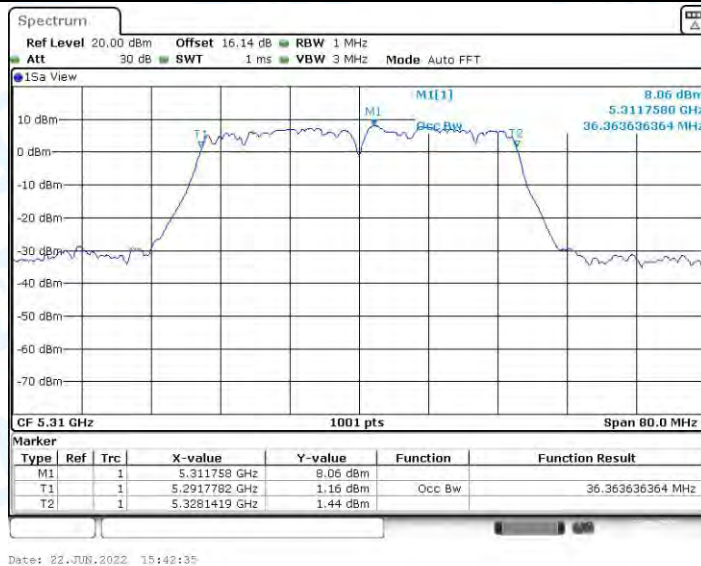
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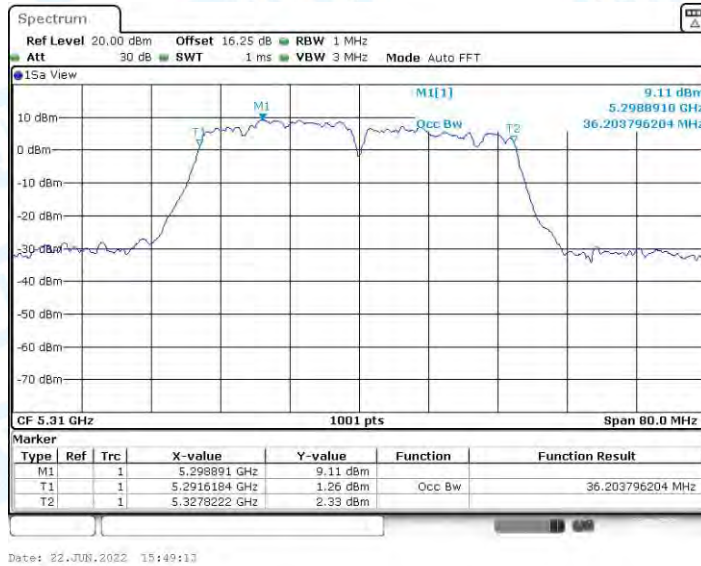
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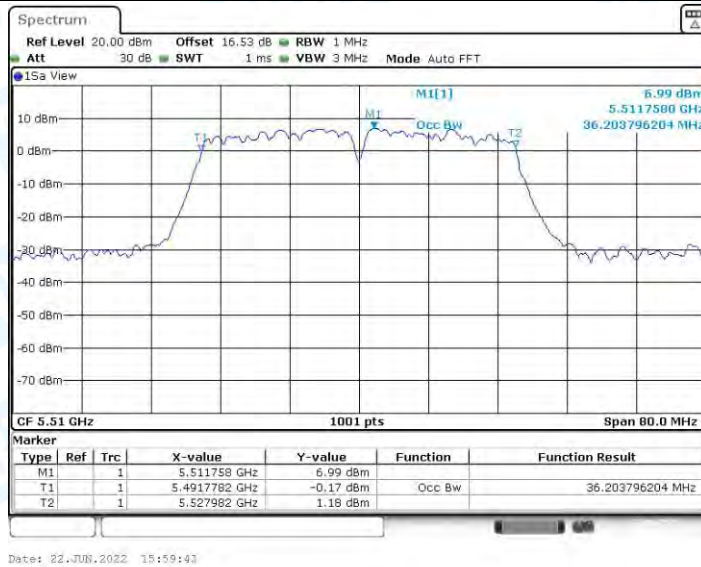
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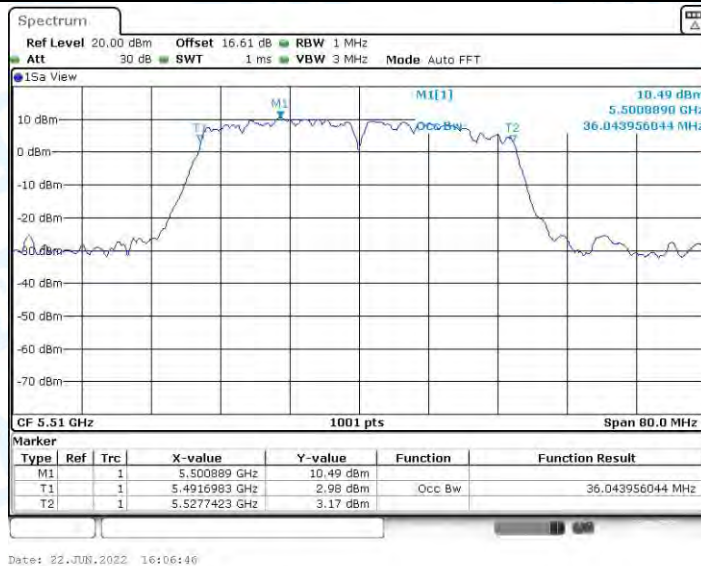
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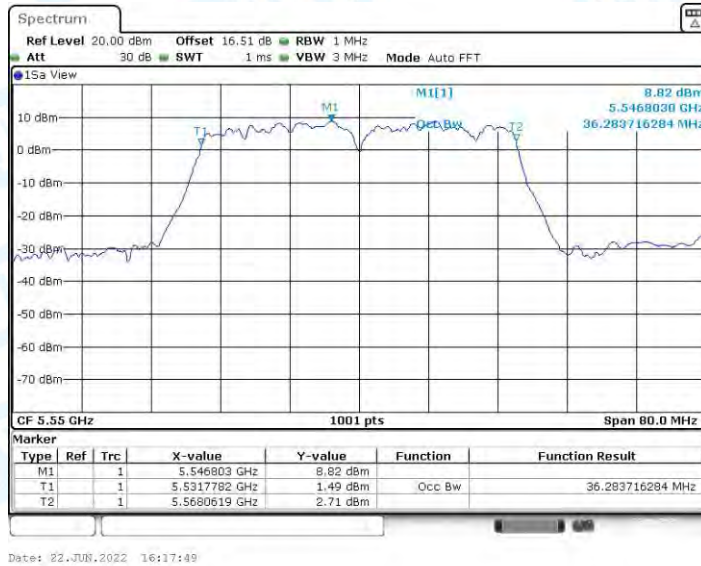
11AC40MIMO_Ant2_5310



11AC40MIMO_Ant1_5510



11AC40MIMO_Ant2_5510



11AC40MIMO_Ant1_5550



11AC40MIMO_Ant2_5550