

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

General Description of EUT	
Product Name:	WiFi & BT combo module
Test Model:	EWN-8852BER3BB-HF
Sample ID:	202205-0049-01-02#
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-202205-0049-13	

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# 1. Emission Bandwidth

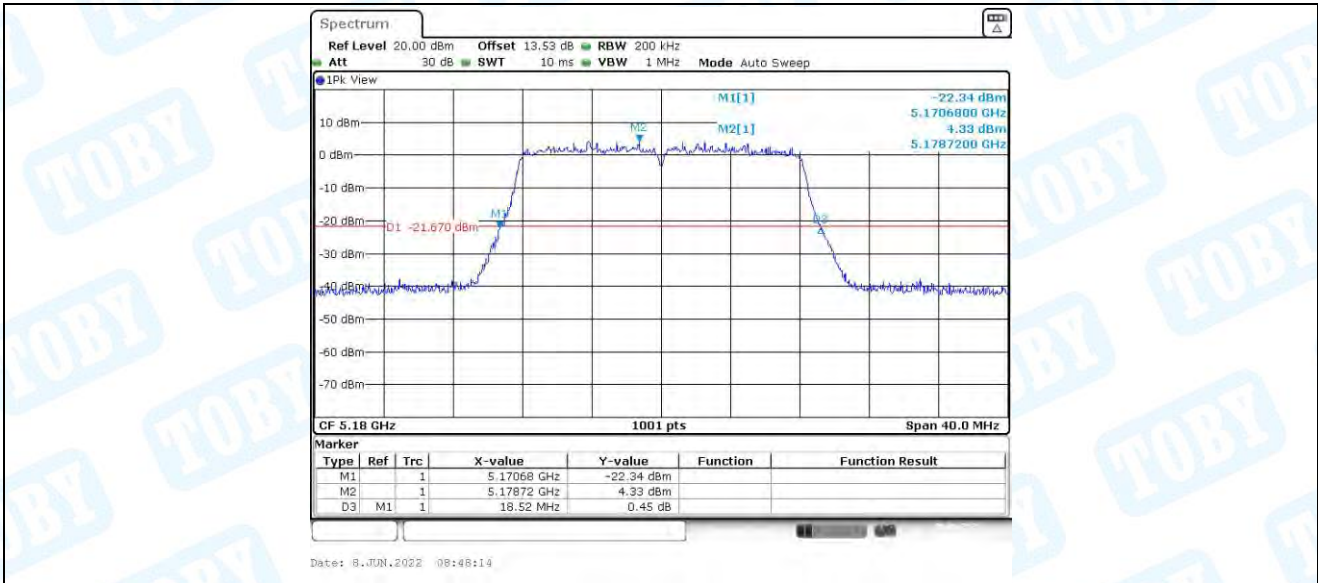
## 1.1. Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.52	5170.68	5189.20	---	---
	Ant2	5180	18.36	5170.76	5189.12	---	---
	Ant1	5220	18.52	5210.72	5229.24	---	---
	Ant2	5220	18.36	5210.72	5229.08	---	---
	Ant1	5240	18.52	5230.76	5249.28	---	---
	Ant2	5240	18.44	5230.64	5249.08	---	---
	Ant1	5260	18.40	5250.80	5269.20	---	---
	Ant2	5260	18.40	5250.68	5269.08	---	---
	Ant1	5300	18.52	5290.72	5309.24	---	---
	Ant2	5300	18.28	5290.80	5309.08	---	---
	Ant1	5320	18.48	5310.76	5329.24	---	---
	Ant2	5320	18.40	5310.68	5329.08	---	---
	Ant1	5500	18.52	5490.76	5509.28	---	---
	Ant2	5500	18.40	5490.72	5509.12	---	---
	Ant1	5580	18.48	5570.80	5589.28	---	---
	Ant2	5580	18.36	5570.72	5589.08	---	---
	Ant1	5700	18.48	5690.72	5709.20	---	---
	Ant2	5700	18.44	5690.68	5709.12	---	---
11N20MIMO	Ant1	5180	19.44	5170.28	5189.72	---	---
	Ant2	5180	19.20	5170.40	5189.60	---	---
	Ant1	5220	19.32	5210.32	5229.64	---	---
	Ant2	5220	19.12	5210.40	5229.52	---	---
	Ant1	5240	19.24	5230.36	5249.60	---	---
	Ant2	5240	19.20	5230.36	5249.56	---	---
	Ant1	5260	37.56	5241.32	5278.88	---	---
	Ant2	5260	19.16	5250.40	5269.56	---	---
	Ant1	5300	19.32	5290.32	5309.64	---	---
	Ant2	5300	19.24	5290.36	5309.60	---	---
	Ant1	5320	19.32	5310.32	5329.64	---	---
	Ant2	5320	19.20	5310.36	5329.56	---	---
	Ant1	5500	19.28	5490.28	5509.56	---	---
	Ant2	5500	19.16	5490.40	5509.56	---	---
	Ant1	5580	19.36	5570.28	5589.64	---	---
	Ant2	5580	19.20	5570.40	5589.60	---	---
	Ant1	5700	19.32	5690.28	5709.60	---	---
	Ant2	5700	19.16	5690.40	5709.56	---	---
11N40MIMO	Ant1	5190	39.36	5170.32	5209.68	---	---
	Ant2	5190	38.88	5170.48	5209.36	---	---
	Ant1	5230	39.36	5210.32	5249.68	---	---
	Ant2	5230	38.96	5210.40	5249.36	---	---
	Ant1	5270	39.36	5250.32	5289.68	---	---

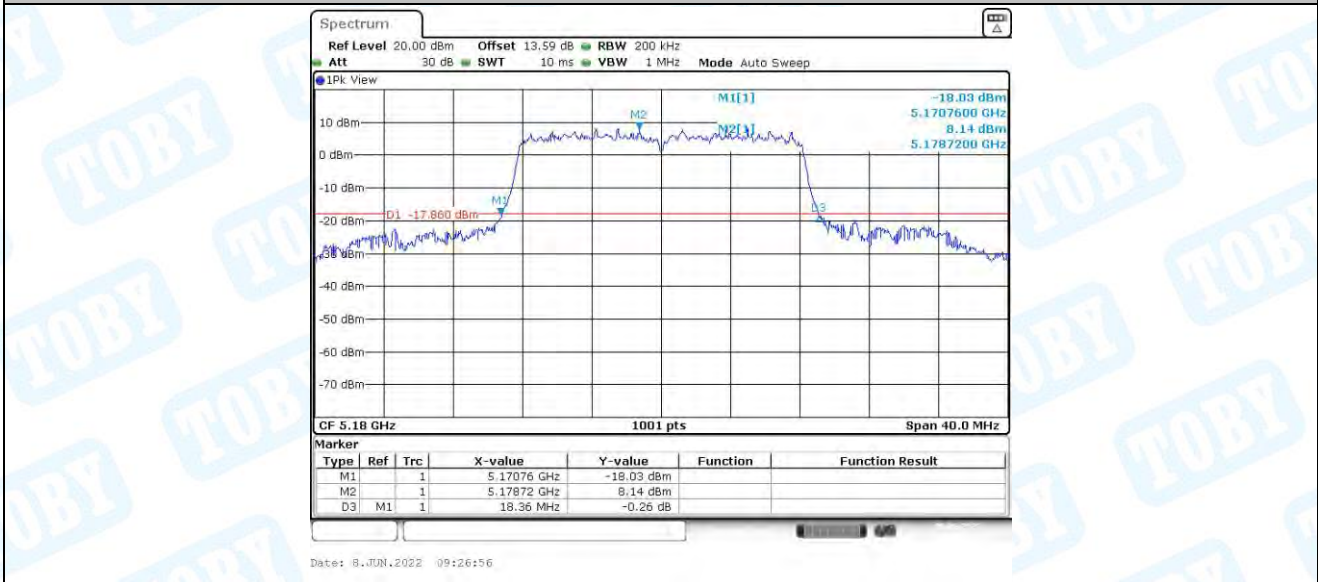
	Ant2	5270	39.04	5250.32	5289.36	---	---
	Ant1	5310	39.36	5290.32	5329.68	---	---
	Ant2	5310	38.88	5290.48	5329.36	---	---
	Ant1	5510	39.44	5490.32	5529.76	---	---
	Ant2	5510	38.96	5490.40	5529.36	---	---
	Ant1	5550	39.36	5530.32	5569.68	---	---
	Ant2	5550	39.12	5530.32	5569.44	---	---
	Ant1	5670	39.44	5650.32	5689.76	---	---
	Ant2	5670	43.68	5646.48	5690.16	---	---
11AC20MIMO	Ant1	5180	19.32	5170.28	5189.60	---	---
	Ant2	5180	20.56	5169.32	5189.88	---	---
	Ant1	5220	19.32	5210.32	5229.64	---	---
	Ant2	5220	19.28	5210.32	5229.60	---	---
	Ant1	5240	19.36	5230.32	5249.68	---	---
	Ant2	5240	19.24	5230.36	5249.60	---	---
	Ant1	5260	20.40	5249.76	5270.16	---	---
	Ant2	5260	20.24	5249.80	5270.04	---	---
	Ant1	5300	20.36	5289.80	5310.16	---	---
	Ant2	5300	20.20	5289.88	5310.08	---	---
	Ant1	5320	20.44	5309.76	5330.20	---	---
	Ant2	5320	20.32	5309.76	5330.08	---	---
	Ant1	5500	20.48	5489.80	5510.28	---	---
	Ant2	5500	20.24	5489.80	5510.04	---	---
	Ant1	5580	19.28	5570.32	5589.60	---	---
	Ant2	5580	19.20	5570.36	5589.56	---	---
	Ant1	5700	19.36	5690.32	5709.68	---	---
	Ant2	5700	19.24	5690.40	5709.64	---	---
11AC40MIMO	Ant1	5190	39.36	5170.32	5209.68	---	---
	Ant2	5190	39.20	5170.40	5209.60	---	---
	Ant1	5230	39.44	5210.32	5249.76	---	---
	Ant2	5230	39.36	5210.24	5249.60	---	---
	Ant1	5270	39.44	5250.24	5289.68	---	---
	Ant2	5270	38.88	5250.48	5289.36	---	---
	Ant1	5310	39.52	5290.24	5329.76	---	---
	Ant2	5310	38.88	5290.56	5329.44	---	---
	Ant1	5510	39.52	5490.32	5529.84	---	---
	Ant2	5510	38.88	5490.56	5529.44	---	---
	Ant1	5550	39.36	5530.40	5569.76	---	---
	Ant2	5550	38.96	5530.48	5569.44	---	---
11AC80MIMO	Ant1	5210	87.84	5165.84	5253.68	---	---
	Ant2	5210	85.76	5167.44	5253.20	---	---
	Ant1	5290	87.68	5246.32	5334.00	---	---
	Ant2	5290	84.64	5248.72	5333.36	---	---
	Ant1	5530	88.16	5485.84	5574.00	---	---

	Ant2	5530	85.60	5486.96	5572.56	---	---	
	Ant1	5610	88.16	5565.84	5654.00	---	---	
	Ant2	5610	84.80	5566.32	5651.12	---	---	
11AX20MIMO	Ant1	5180	20.16	5169.92	5190.08	---	---	
	Ant2	5180	20.32	5169.84	5190.16	---	---	
	Ant1	5220	20.32	5209.88	5230.20	---	---	
	Ant2	5220	20.24	5209.88	5230.12	---	---	
	Ant1	5240	20.32	5229.88	5250.20	---	---	
	Ant2	5240	20.28	5229.84	5250.12	---	---	
	Ant1	5260	20.24	5249.88	5270.12	---	---	
	Ant2	5260	20.24	5249.92	5270.16	---	---	
	Ant1	5300	20.32	5289.84	5310.16	---	---	
	Ant2	5300	20.24	5289.88	5310.12	---	---	
	Ant1	5320	20.36	5309.88	5330.24	---	---	
	Ant2	5320	20.24	5309.84	5330.08	---	---	
	Ant1	5500	20.32	5489.92	5510.24	---	---	
	Ant2	5500	20.28	5489.88	5510.16	---	---	
	Ant1	5580	20.28	5569.92	5590.20	---	---	
	Ant2	5580	20.24	5569.88	5590.12	---	---	
	Ant1	5700	20.36	5689.84	5710.20	---	---	
	Ant2	5700	20.24	5689.88	5710.12	---	---	
	11AX40MIMO	Ant1	5190	39.92	5170.00	5209.92	---	---
		Ant2	5190	47.12	5165.92	5213.04	---	---
Ant1		5230	39.92	5210.00	5249.92	---	---	
Ant2		5230	40.00	5209.92	5249.92	---	---	
Ant1		5270	39.84	5250.08	5289.92	---	---	
Ant2		5270	40.16	5249.84	5290.00	---	---	
Ant1		5310	40.00	5289.92	5329.92	---	---	
Ant2		5310	40.08	5289.92	5330.00	---	---	
Ant1		5510	39.92	5490.00	5529.92	---	---	
Ant2		5510	40.24	5489.76	5530.00	---	---	
Ant1		5550	39.92	5530.00	5569.92	---	---	
Ant2		5550	40.16	5529.84	5570.00	---	---	
Ant1		5670	39.92	5650.00	5689.92	---	---	
Ant2		5670	40.00	5650.08	5690.08	---	---	
11AX80MIMO	Ant1	5210	81.76	5169.20	5250.96	---	---	
	Ant2	5210	82.40	5169.36	5251.76	---	---	
	Ant1	5290	82.08	5249.20	5331.28	---	---	
	Ant2	5290	81.12	5249.84	5330.96	---	---	
	Ant1	5530	82.08	5489.04	5571.12	---	---	
	Ant2	5530	81.12	5489.20	5570.32	---	---	
	Ant1	5610	82.08	5569.04	5651.12	---	---	
	Ant2	5610	80.96	5569.20	5650.16	---	---	

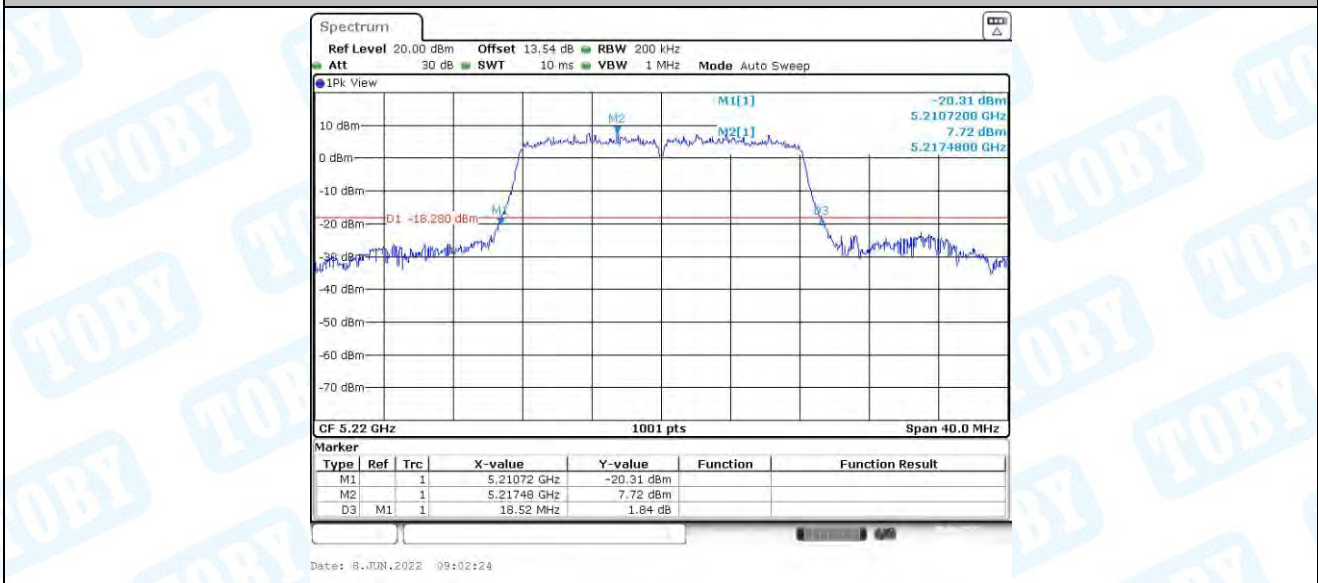
## 2.1. Test Graphs



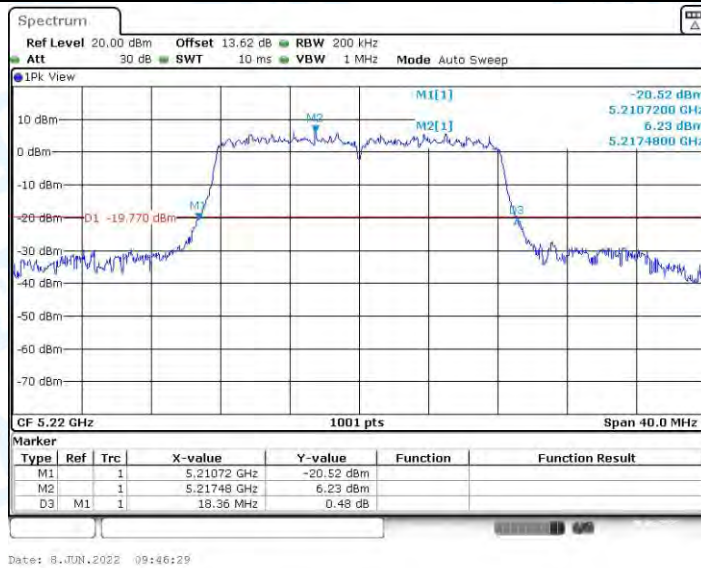
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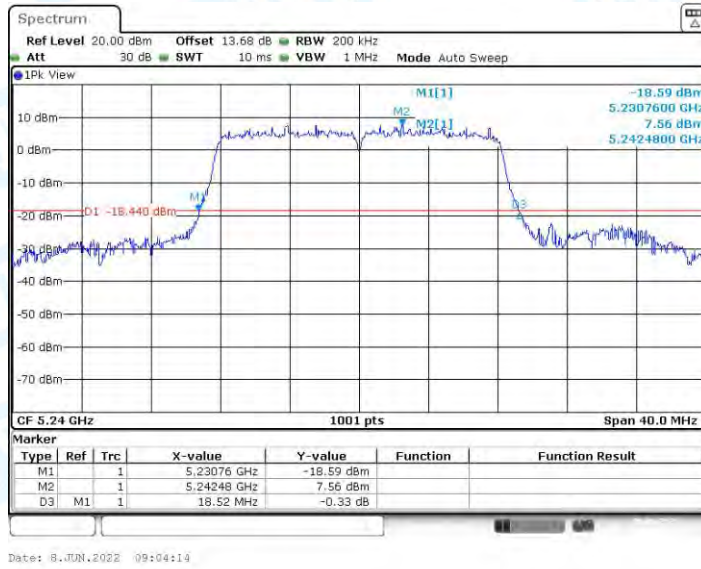
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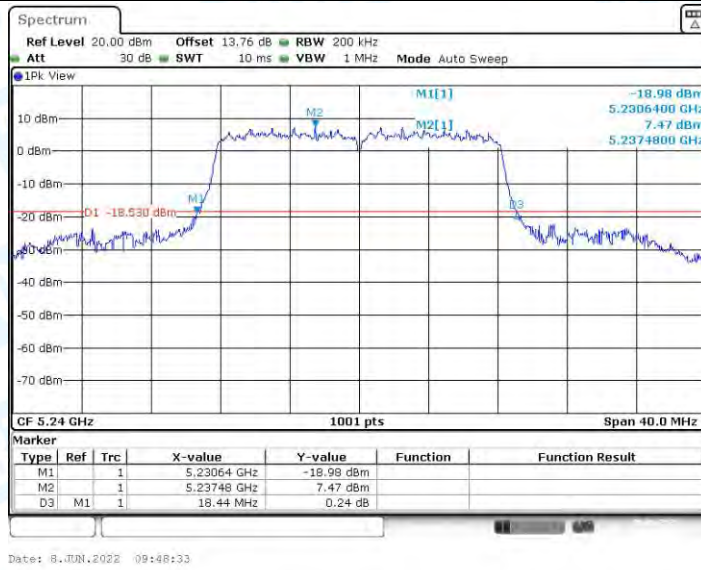
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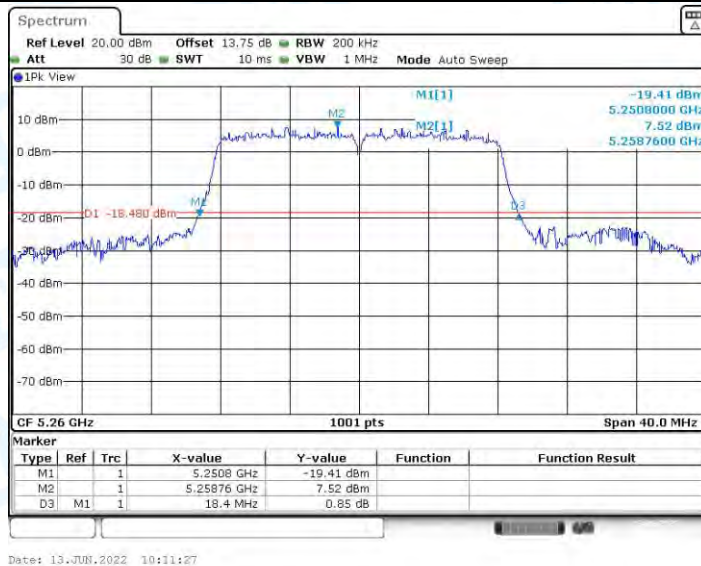
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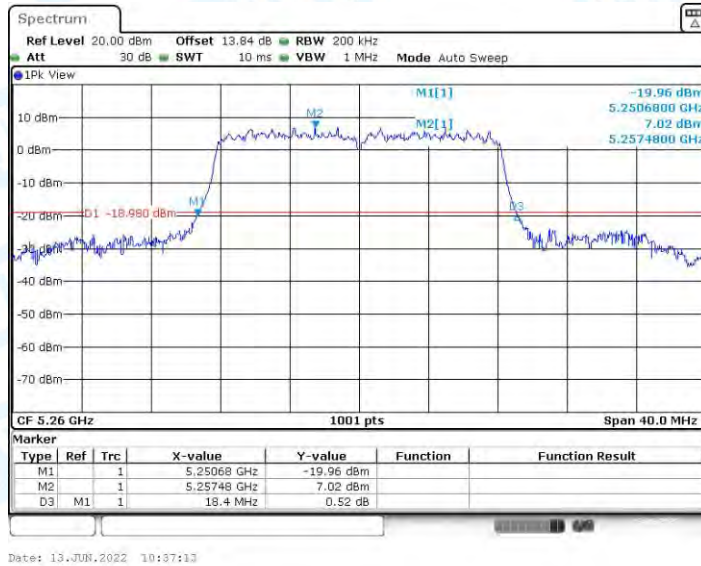
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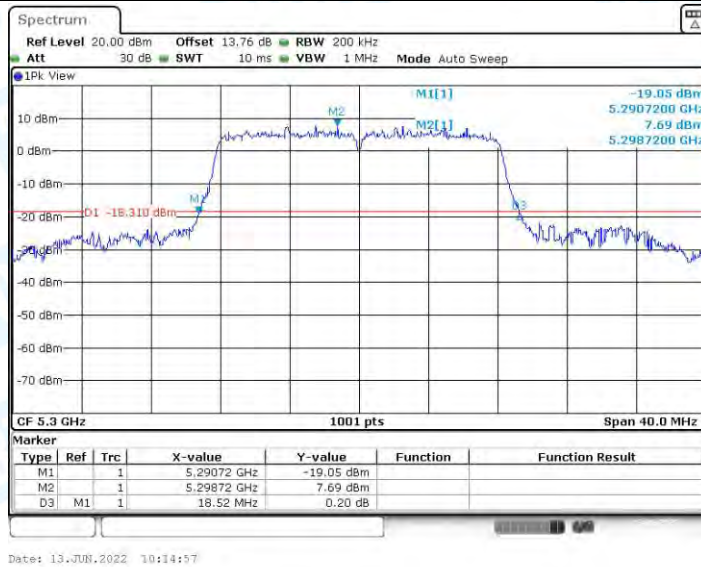
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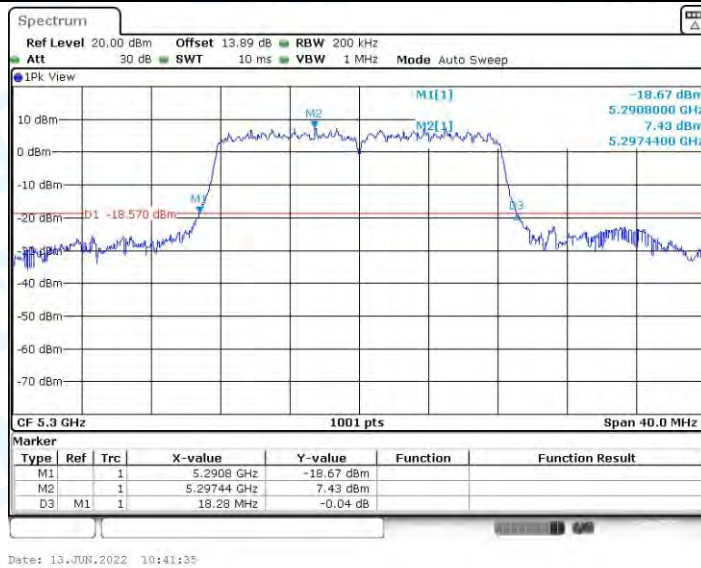


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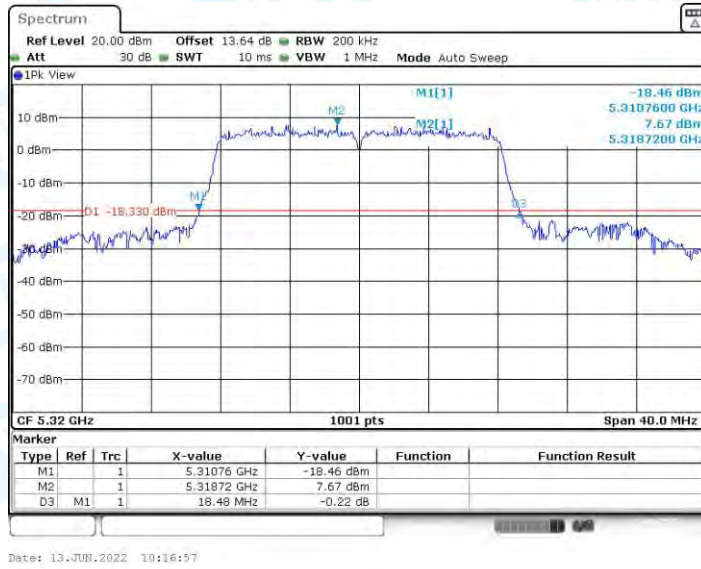


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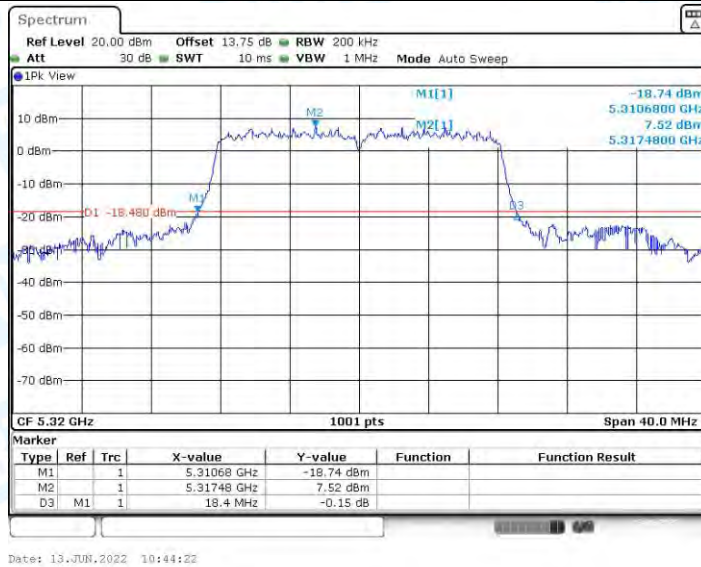




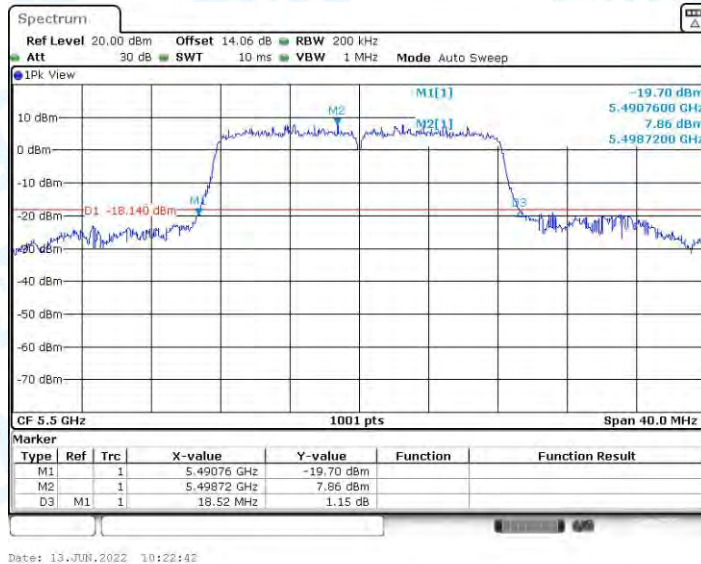
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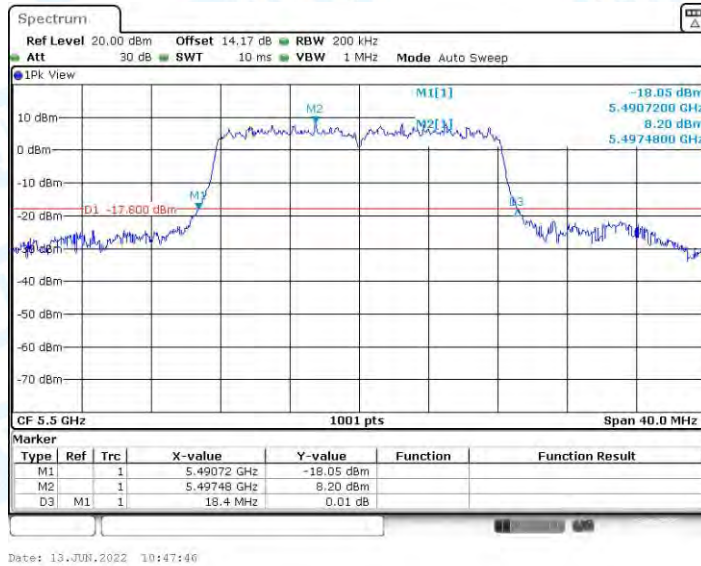
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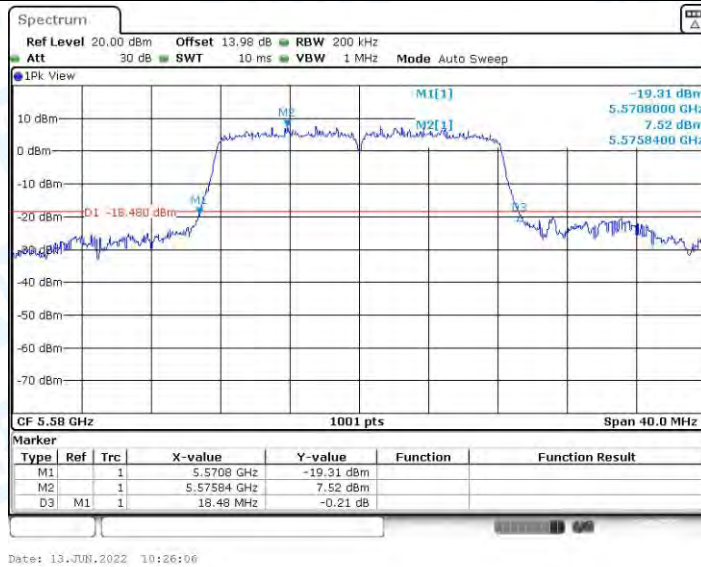
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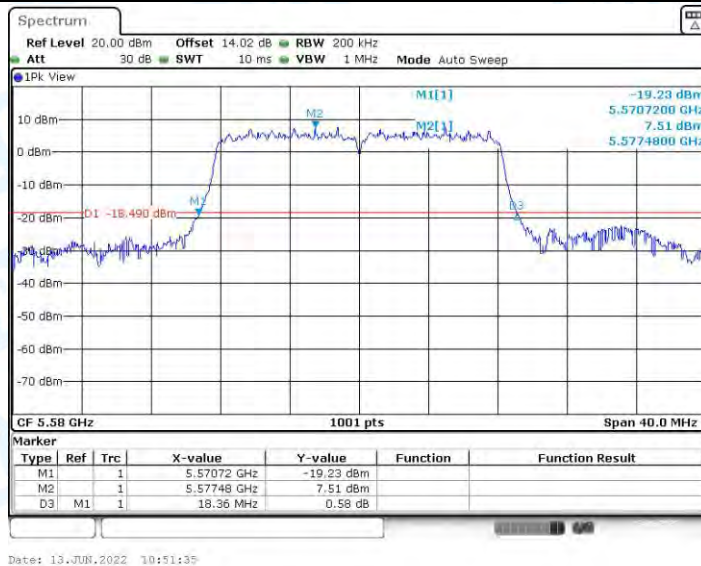
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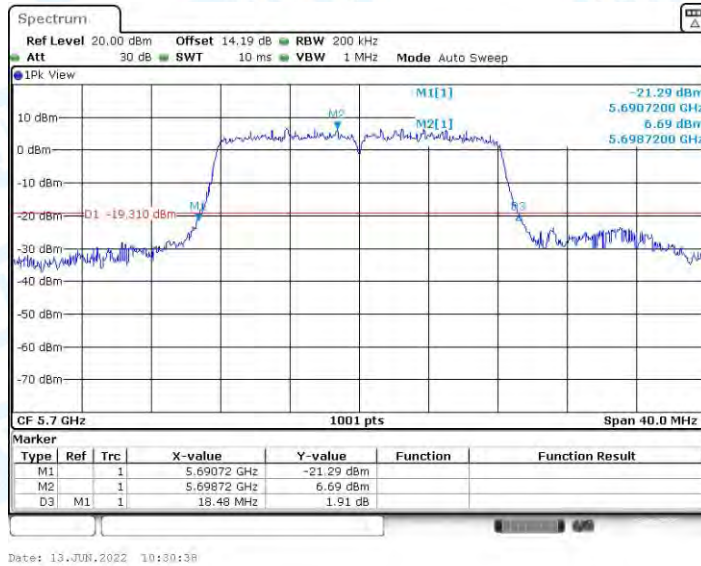
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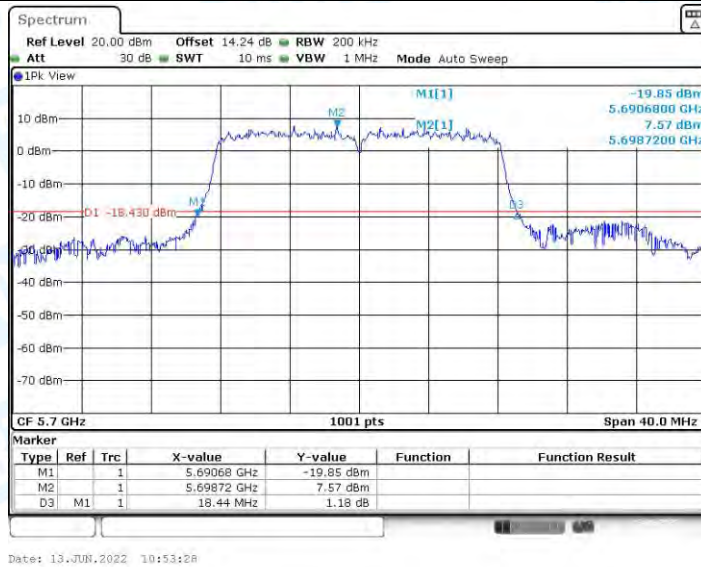
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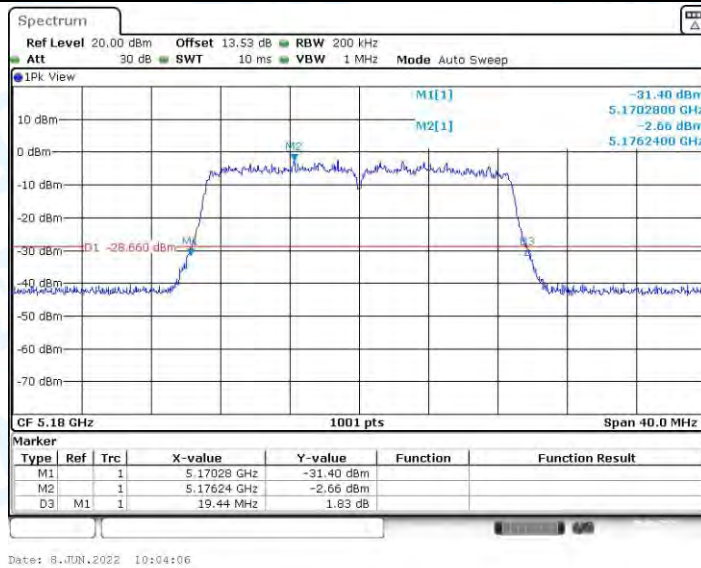
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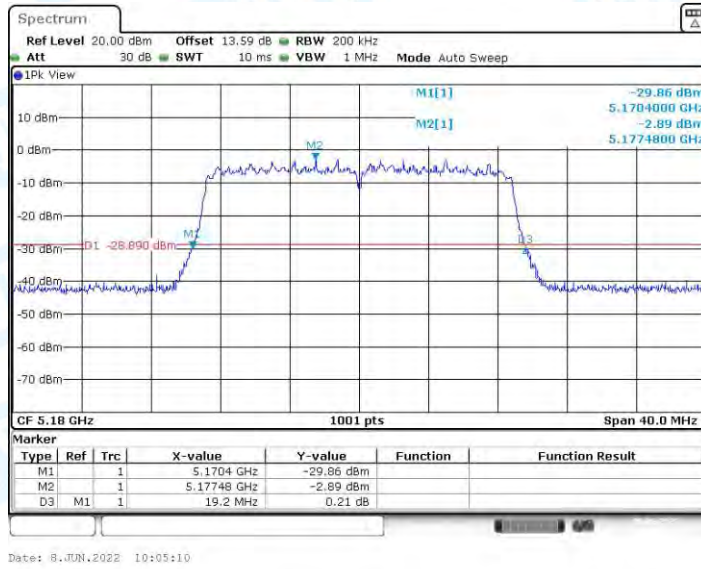
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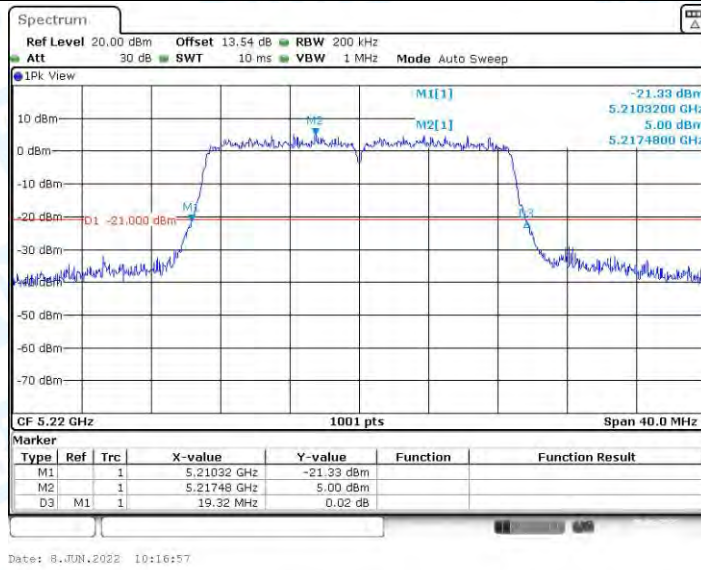
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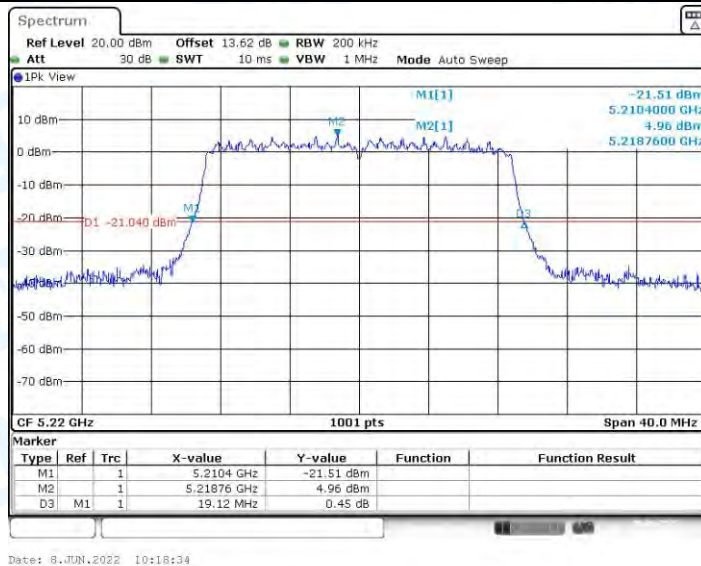
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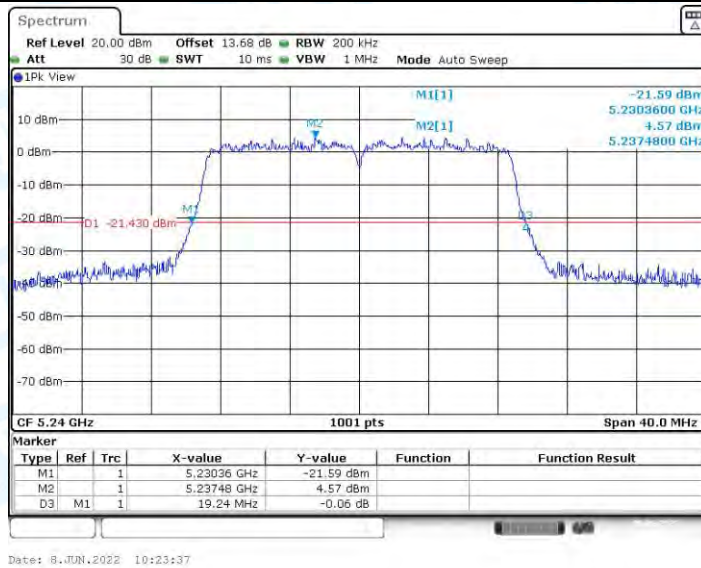
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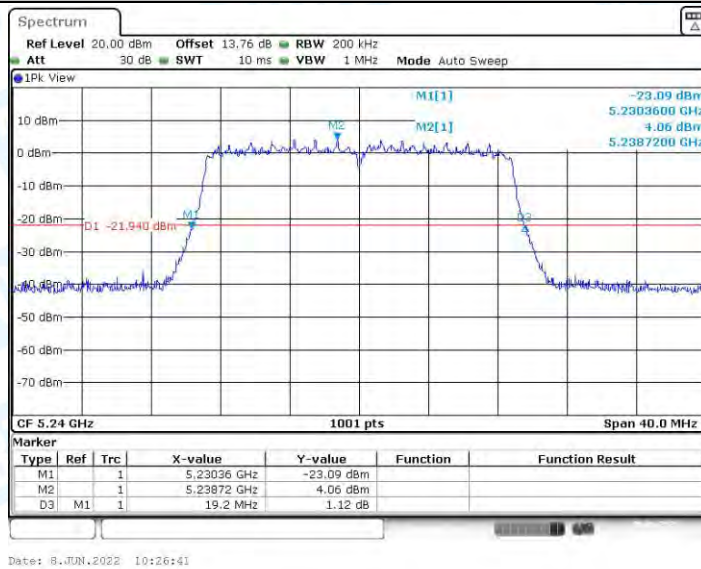
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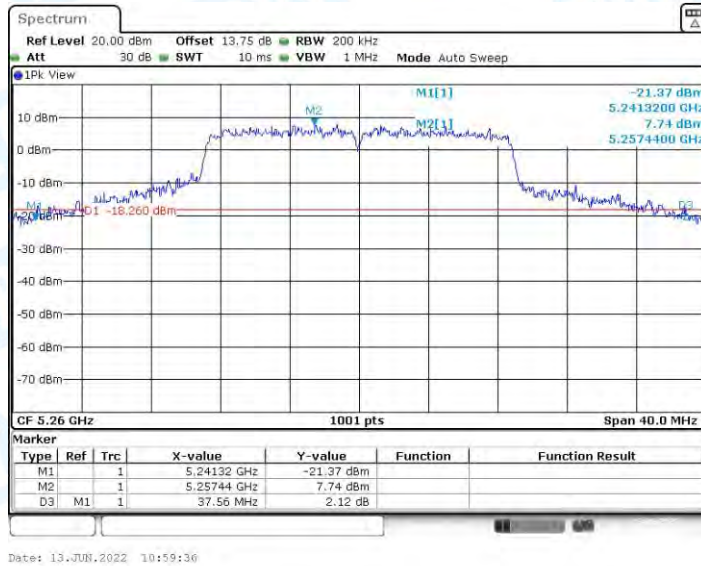
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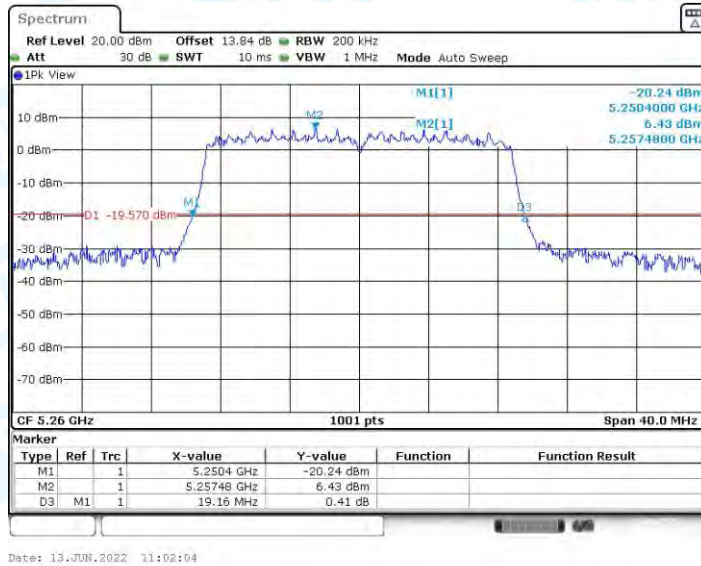
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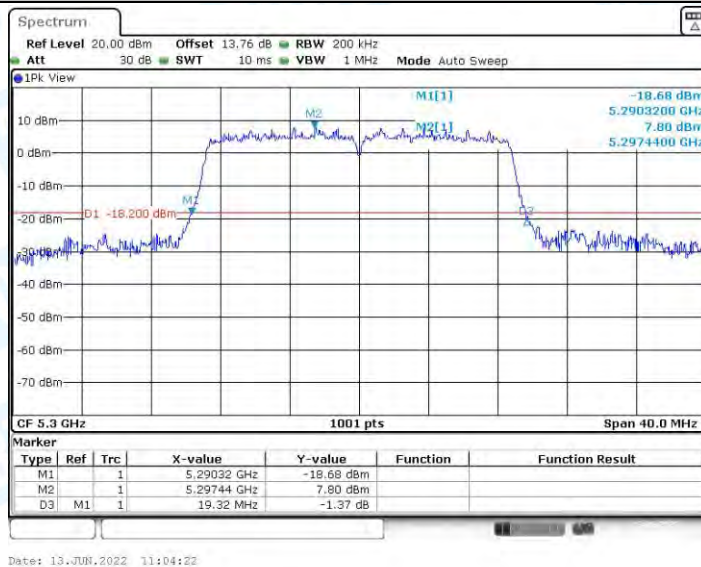
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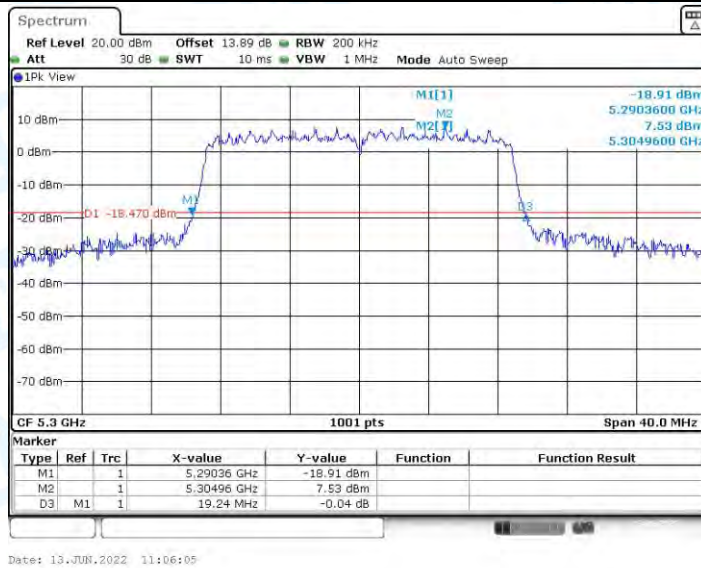
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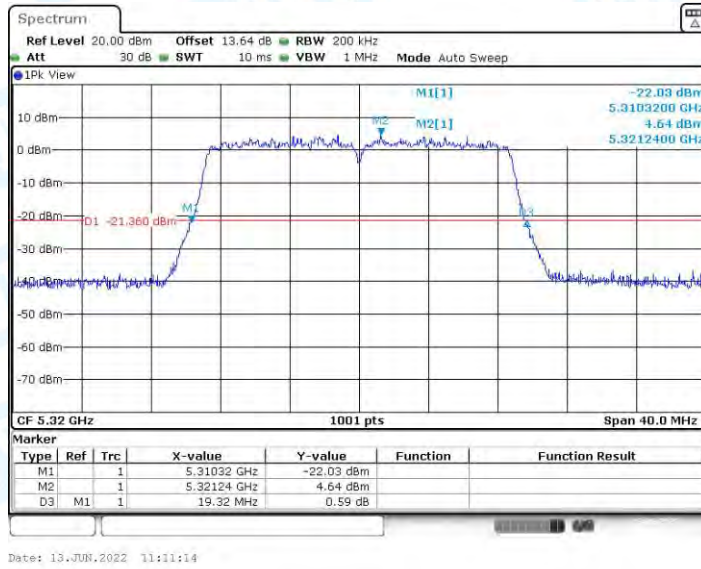
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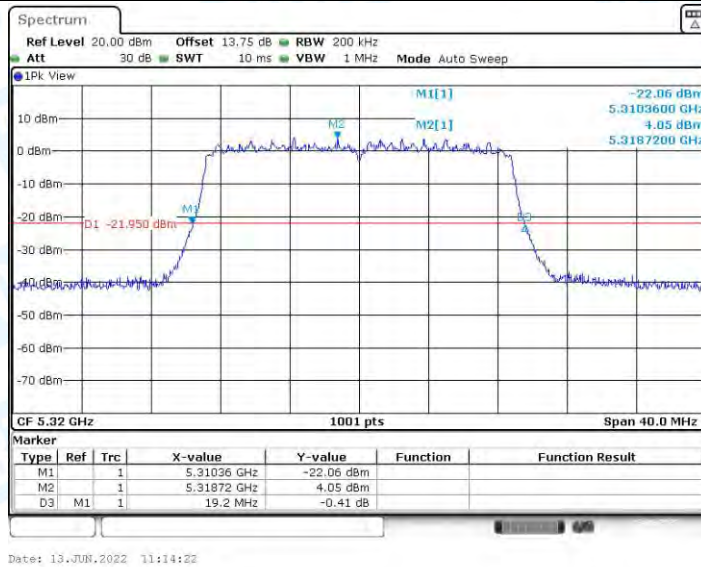
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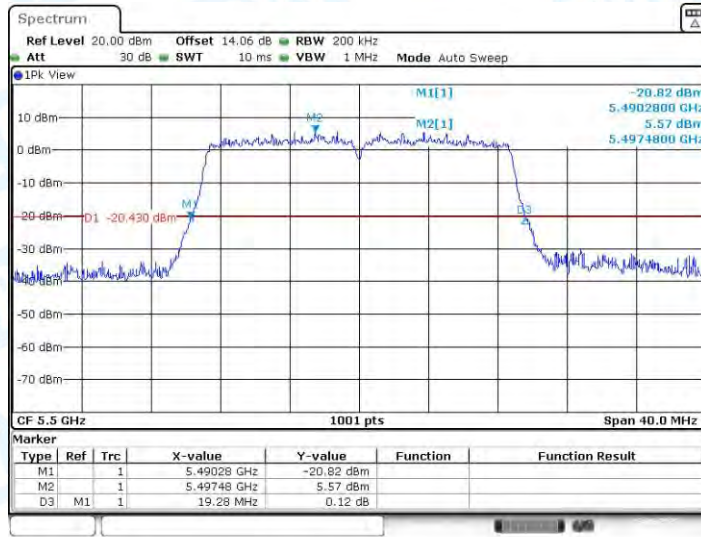
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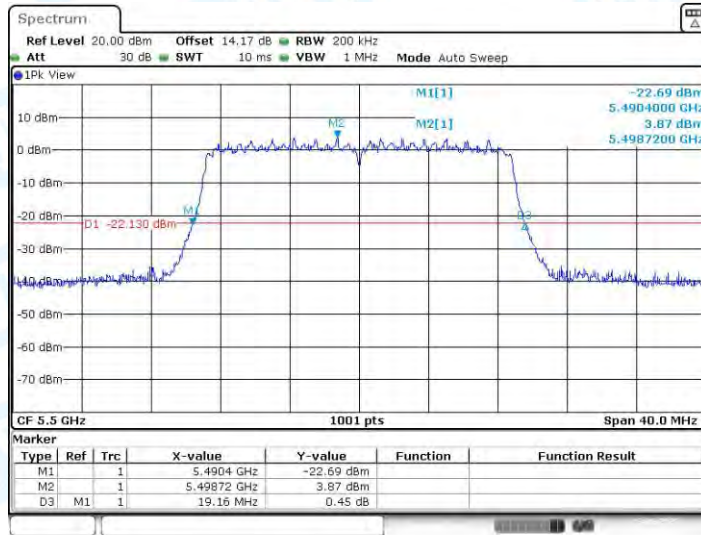


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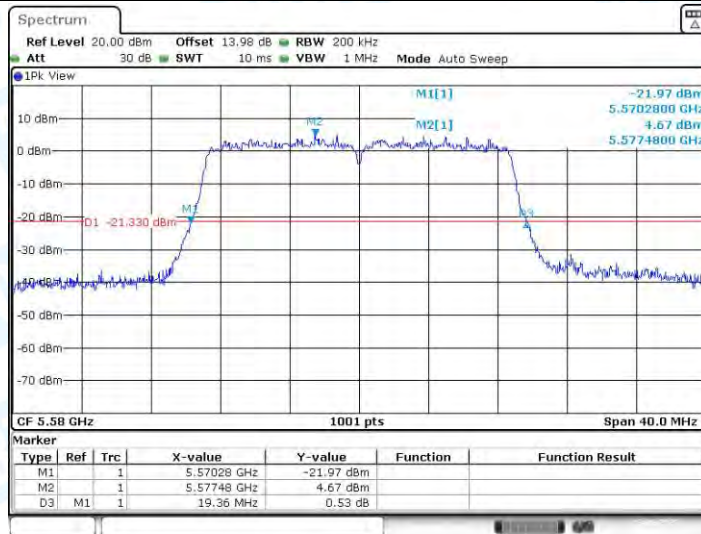
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Date: 13.JUN.2022 11:21:27

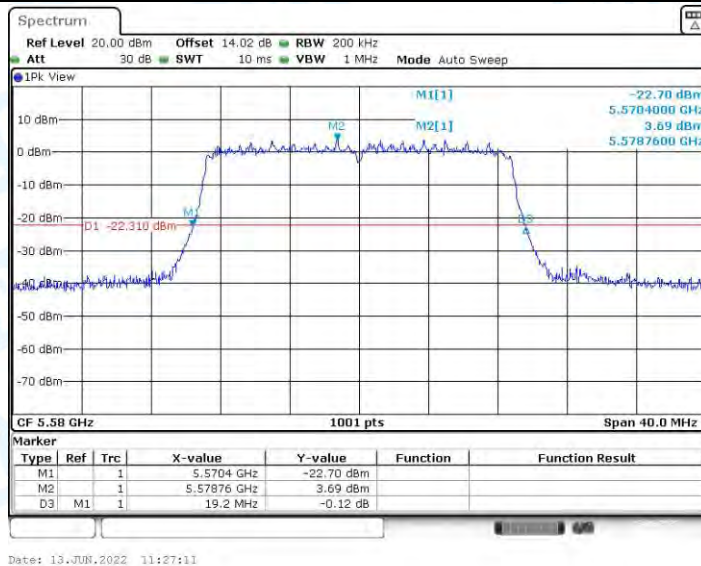
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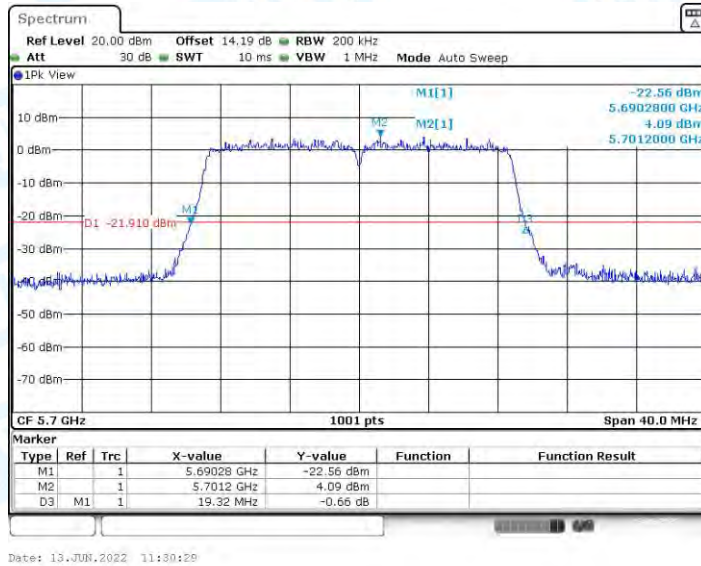
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11N20MIMO\_Ant1\_5580

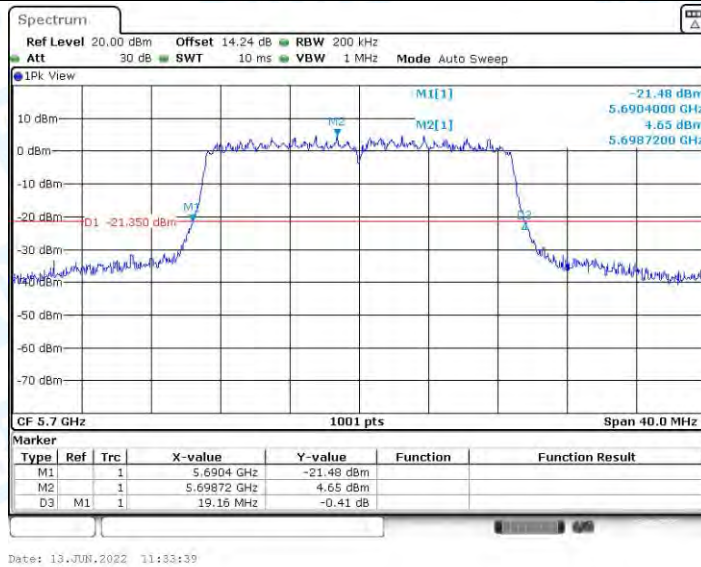




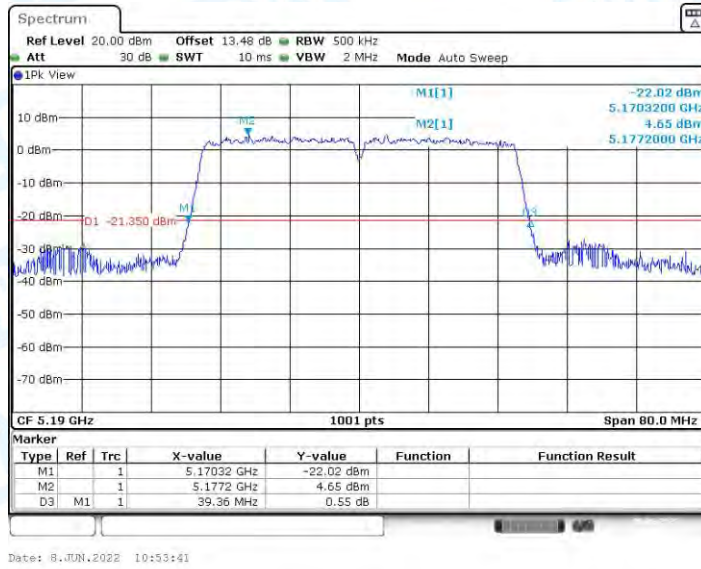
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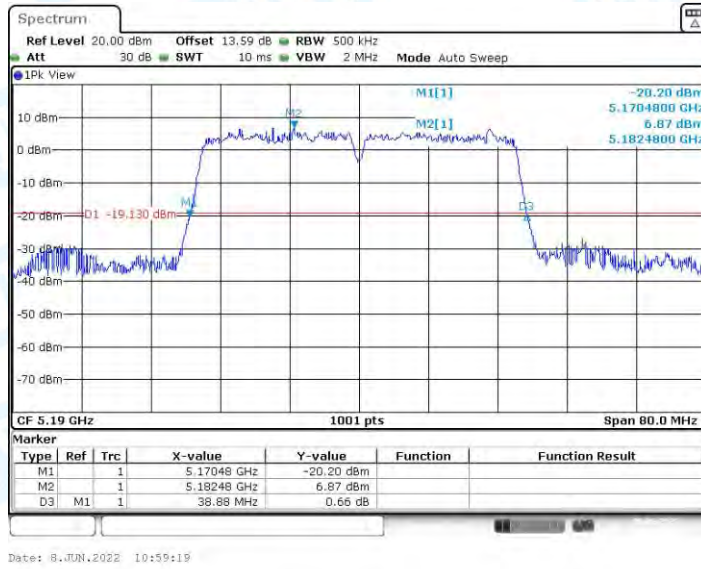
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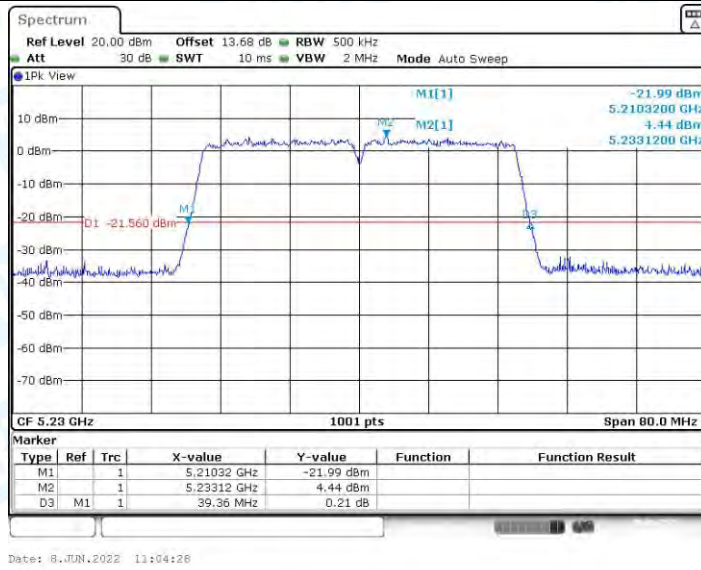
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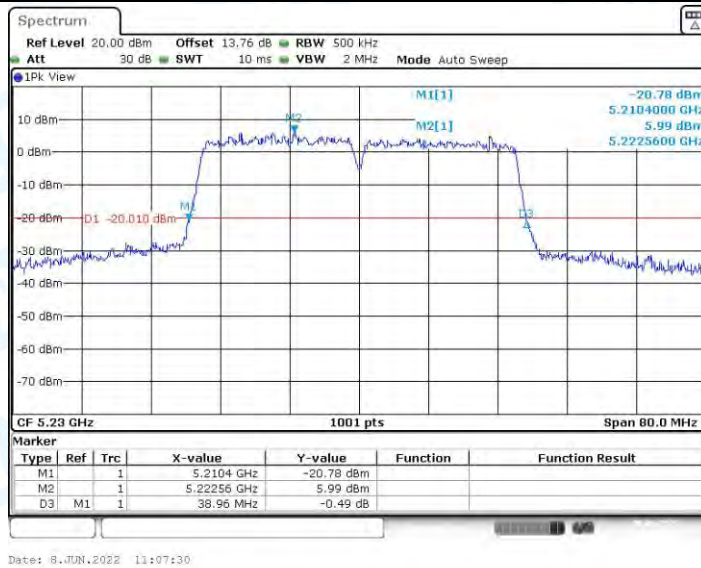
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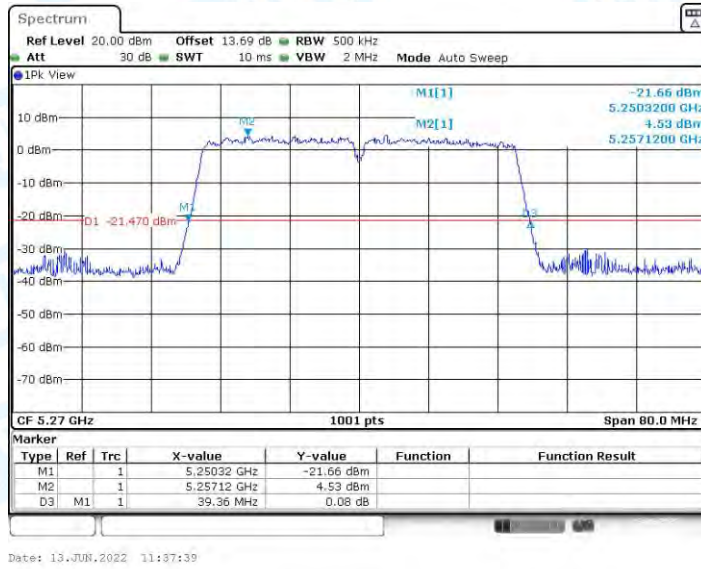
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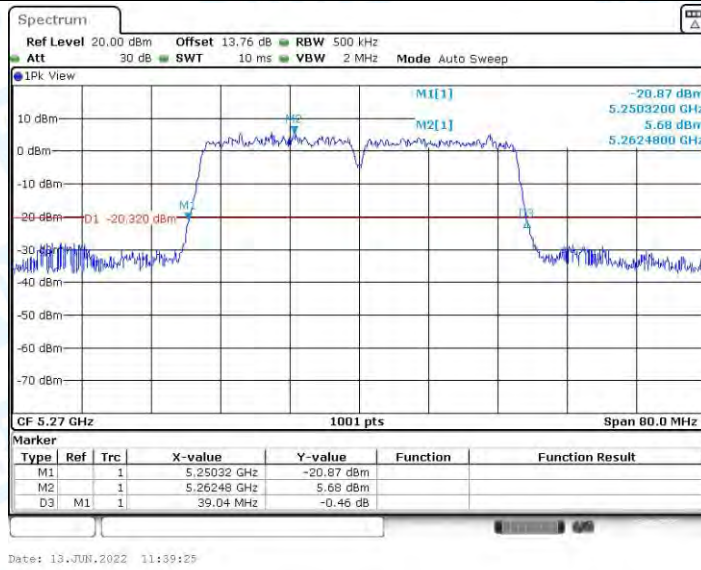
11N40MIMO\_Ant1\_5230



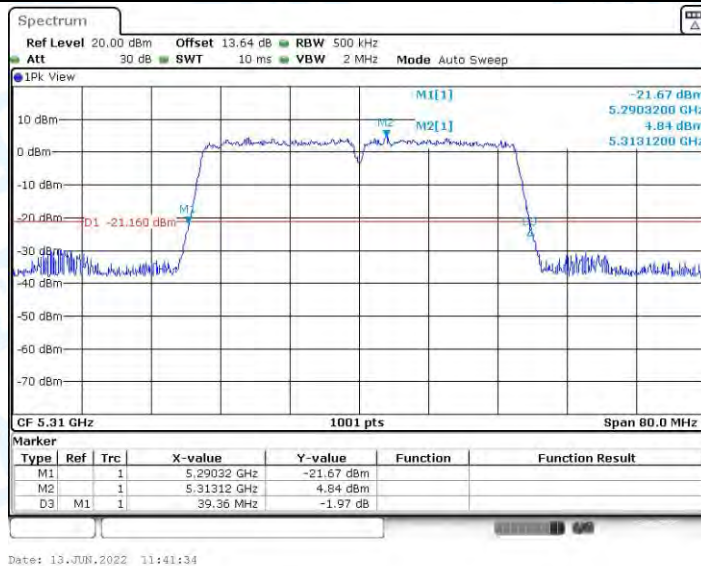
11N40MIMO\_Ant2\_5230



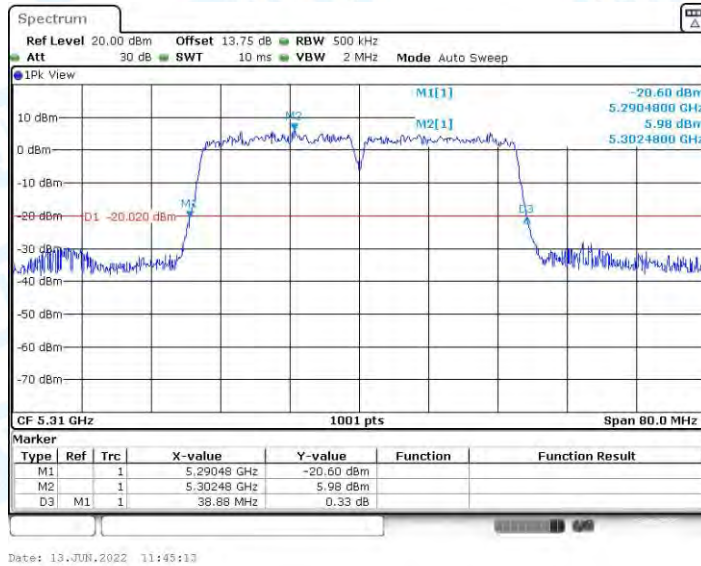
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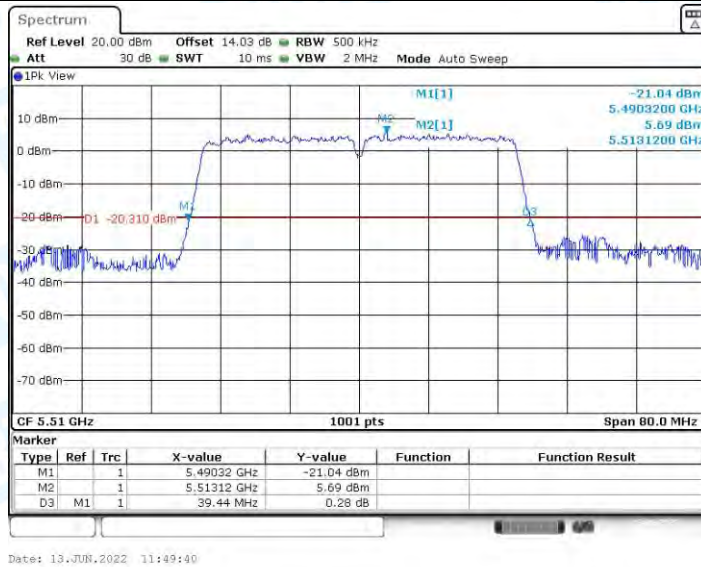
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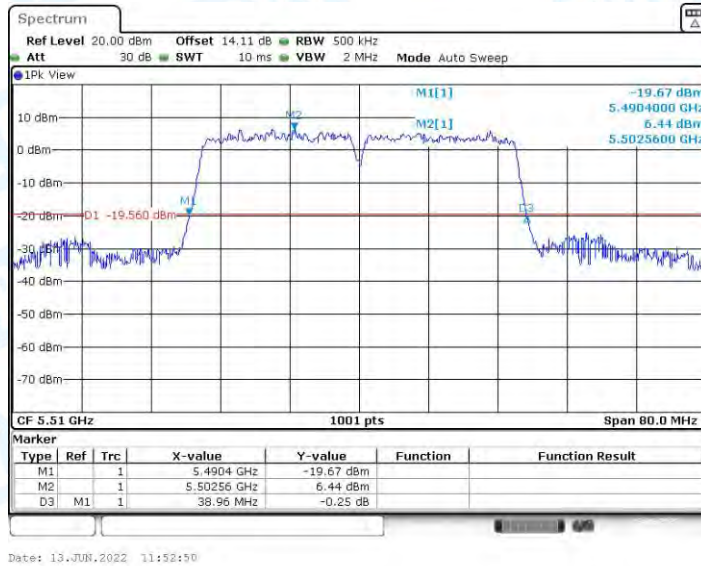
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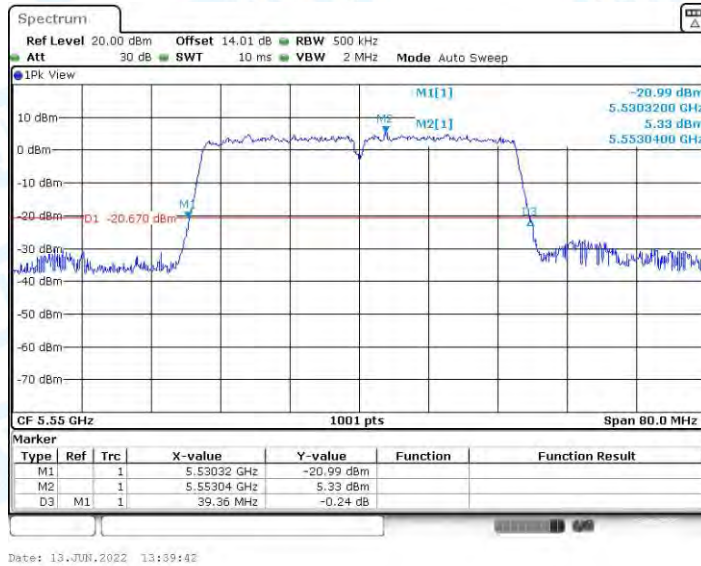
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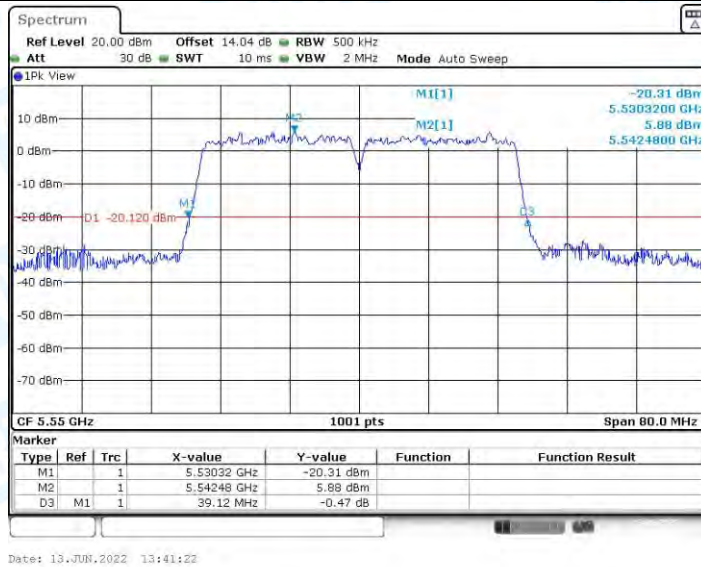
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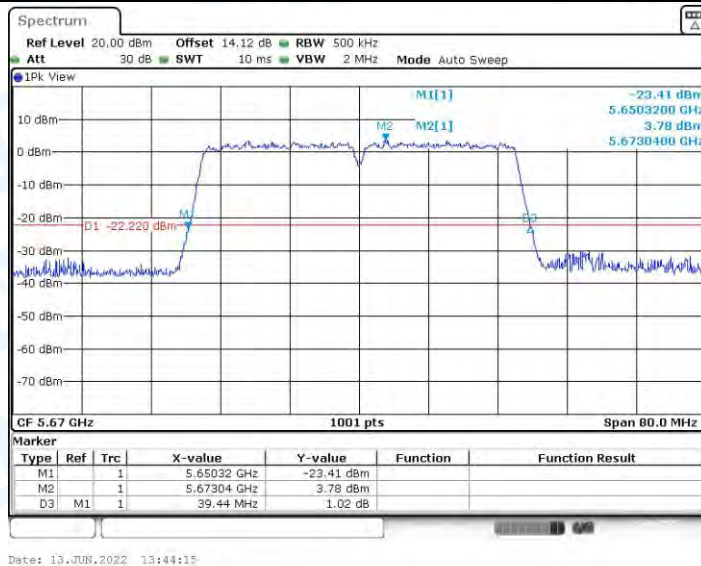
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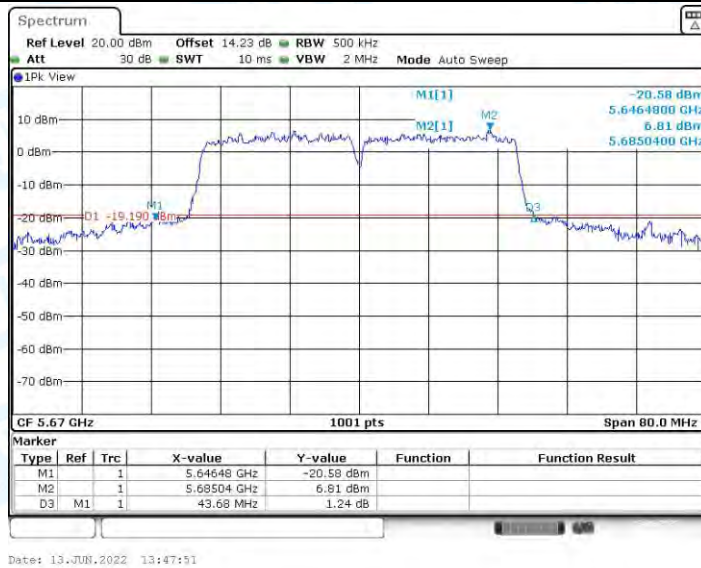
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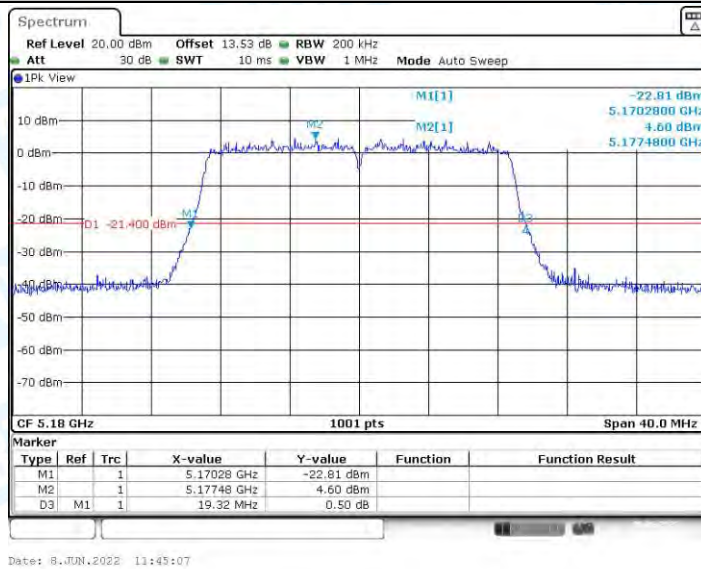
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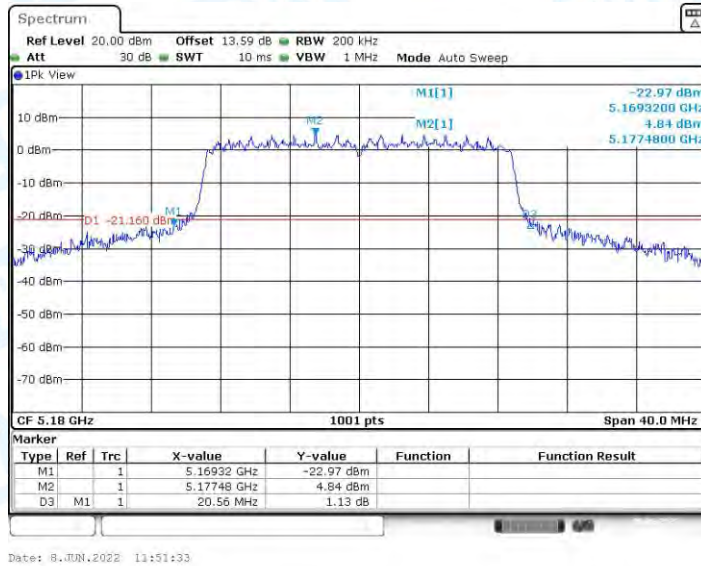
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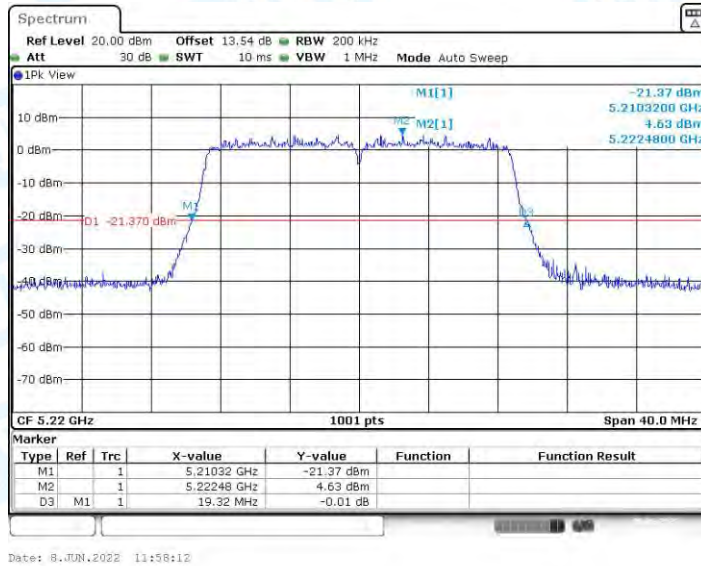
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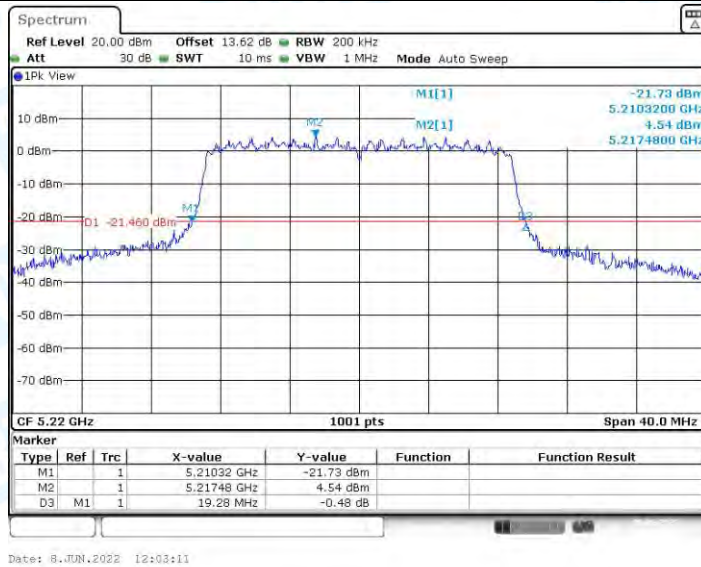
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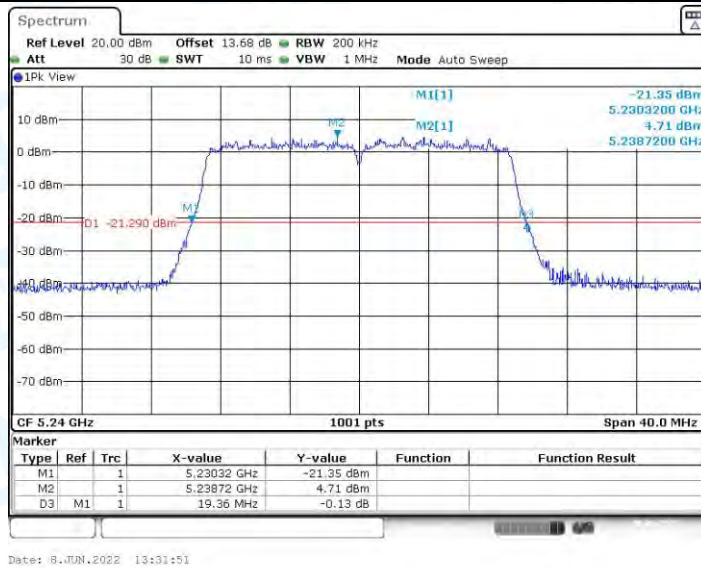
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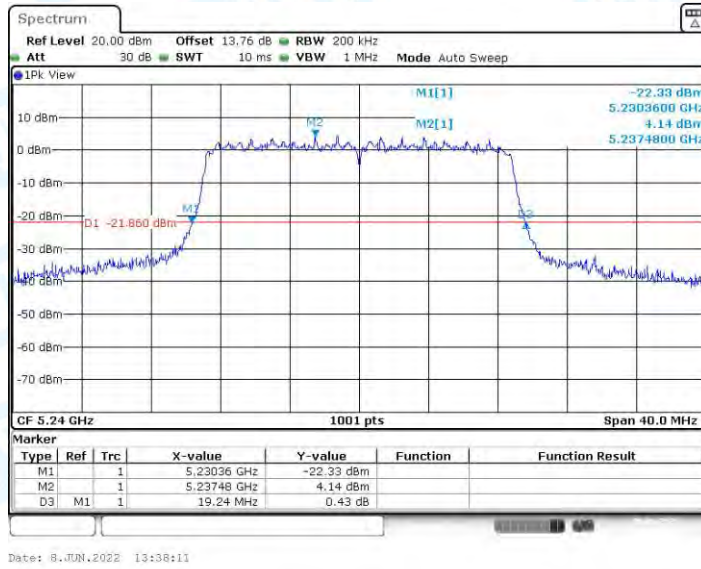
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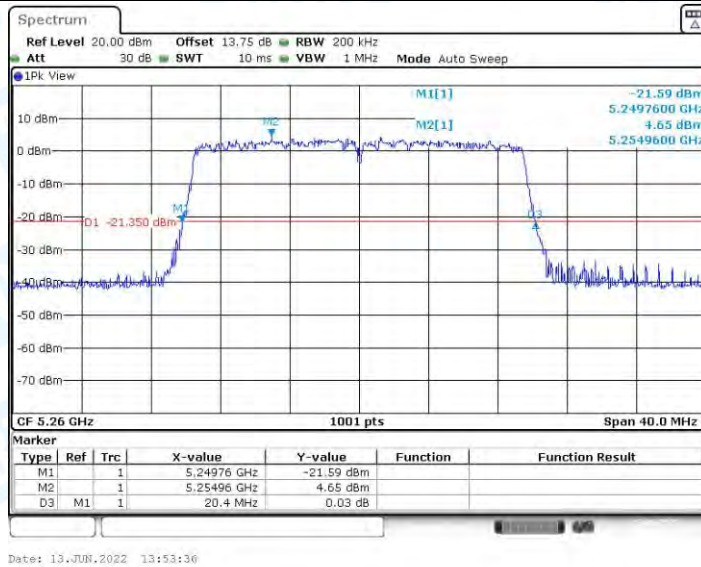
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11AC20MIMO\_Ant1\_5240

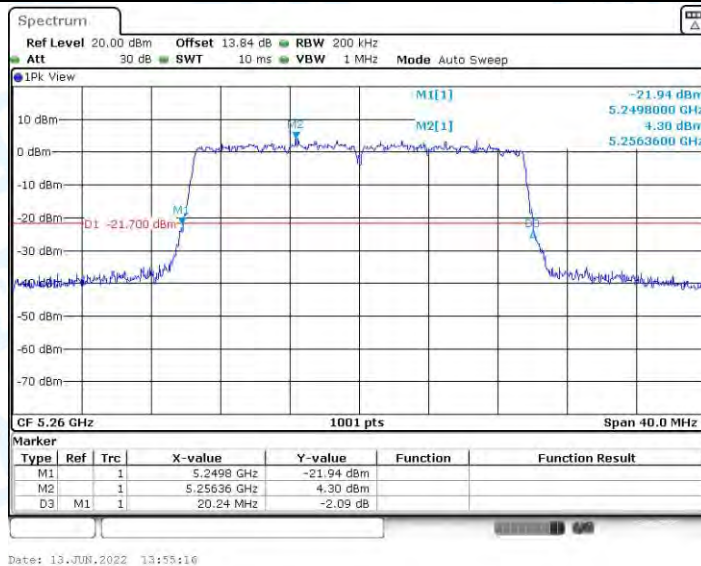


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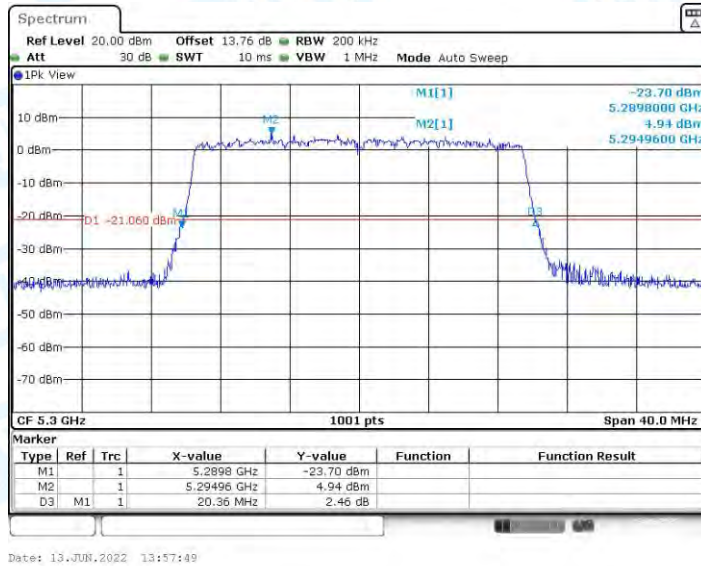


11AC20MIMO\_Ant1\_5260

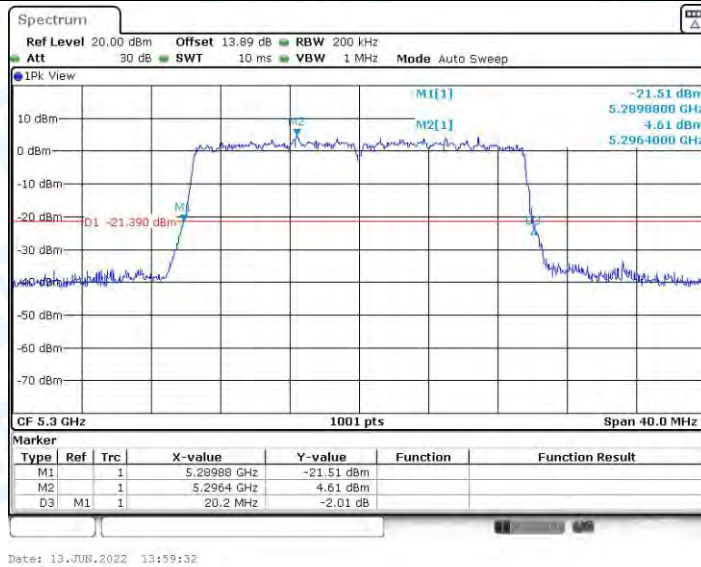




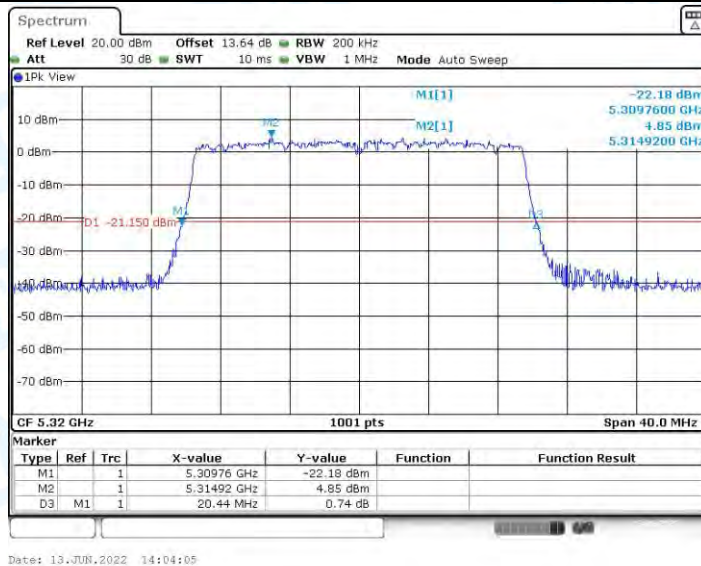
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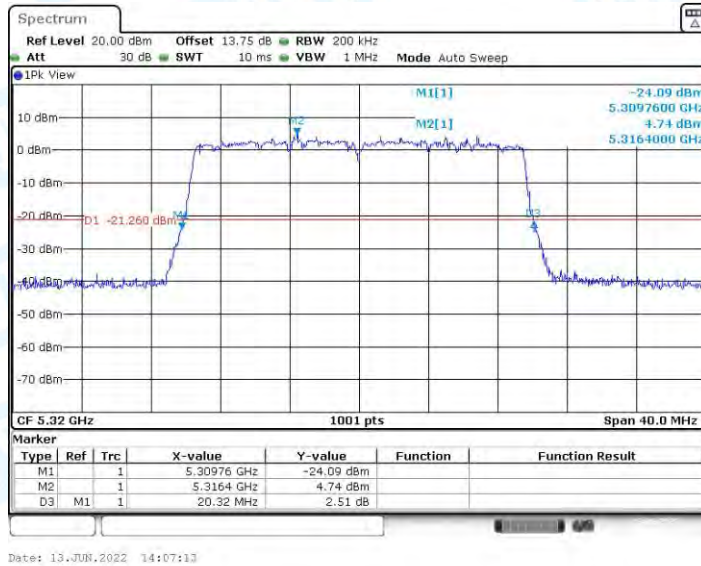
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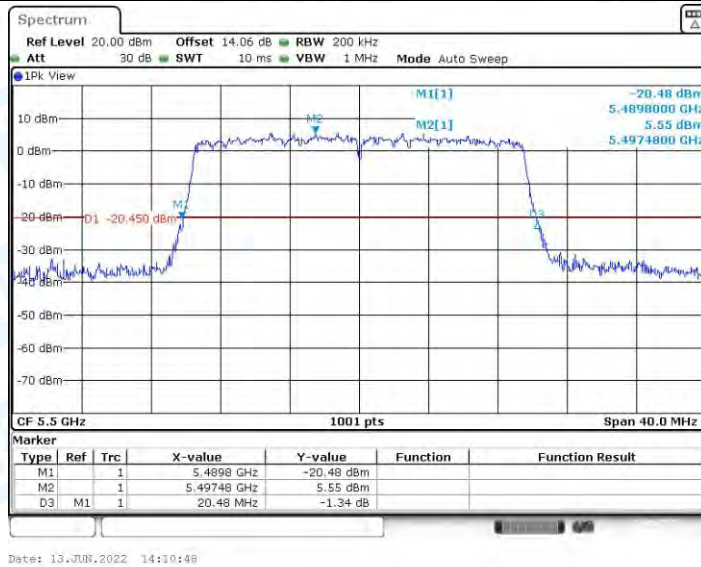
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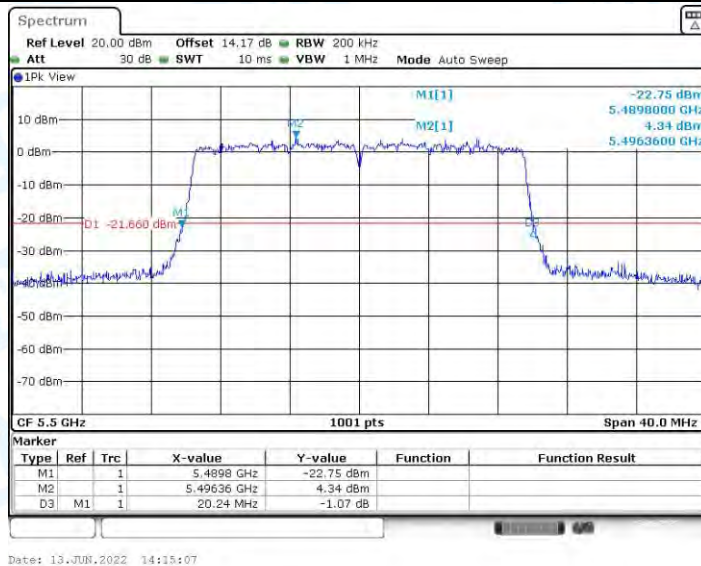
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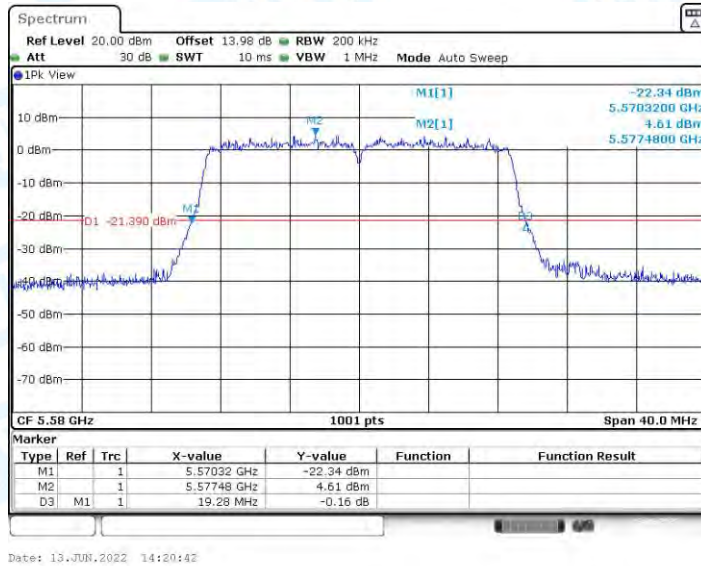
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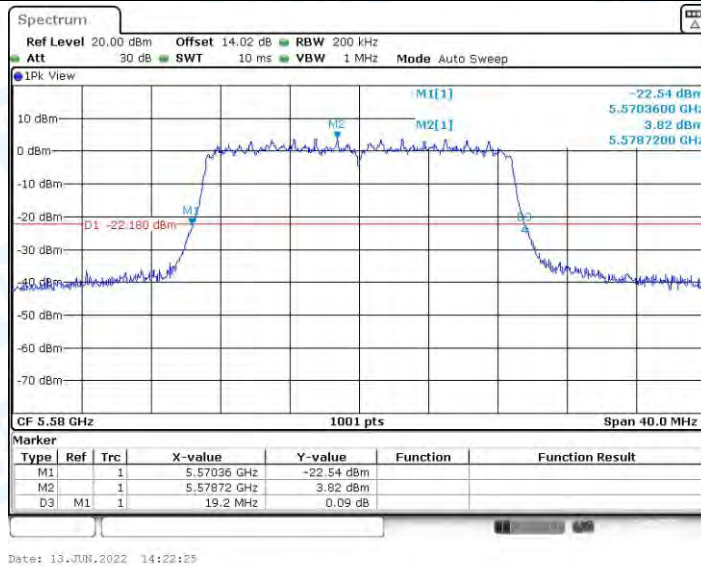
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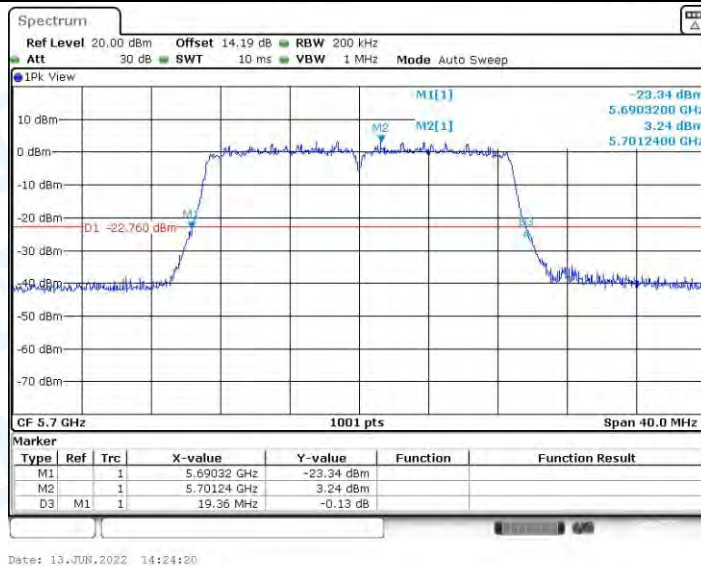
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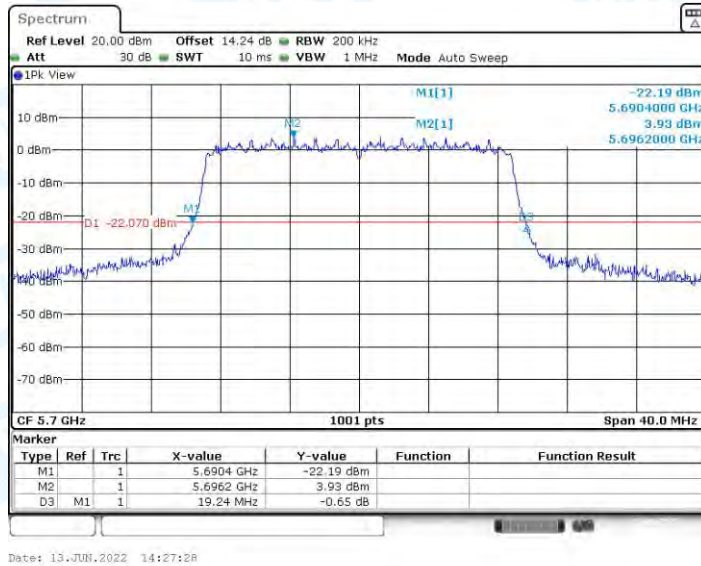
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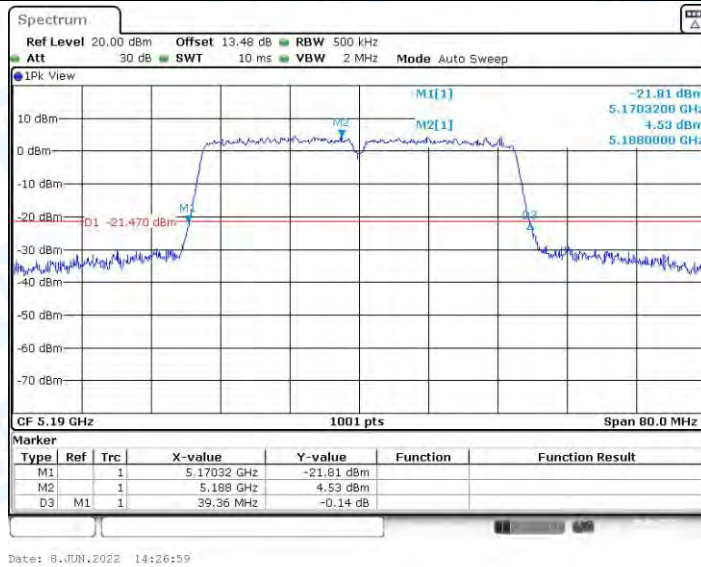
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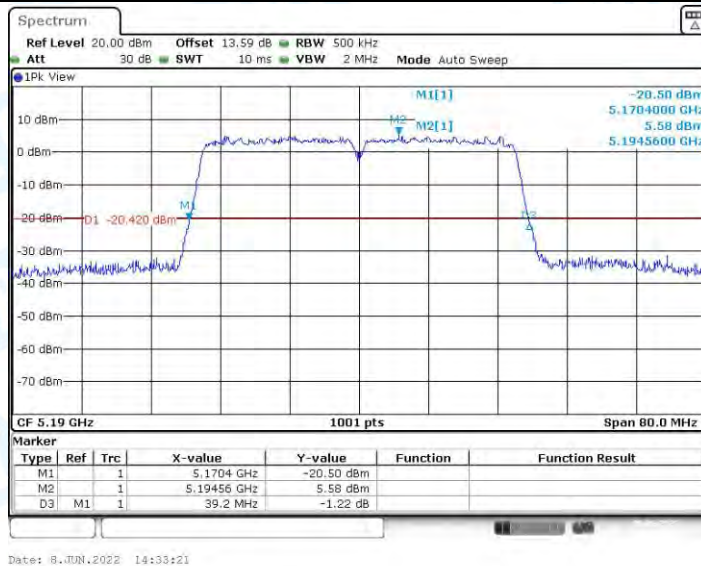
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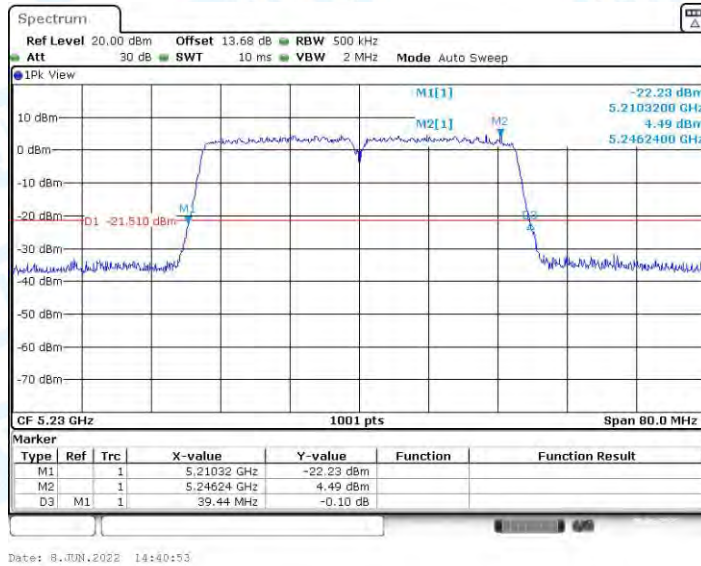
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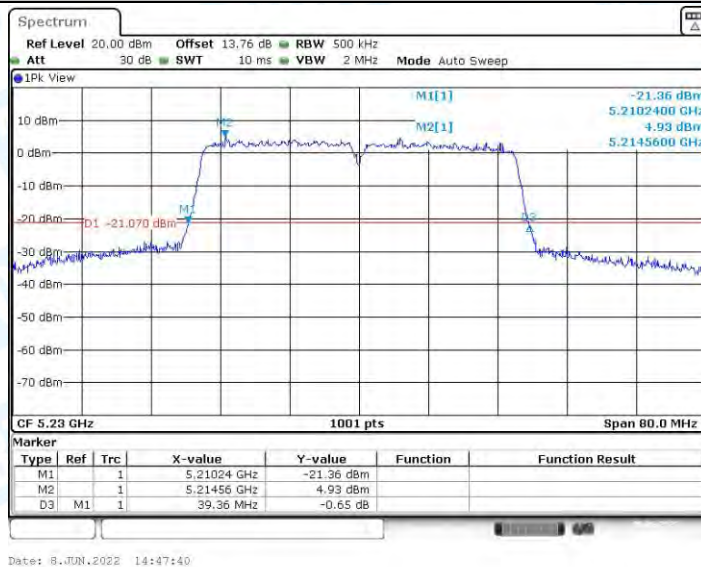
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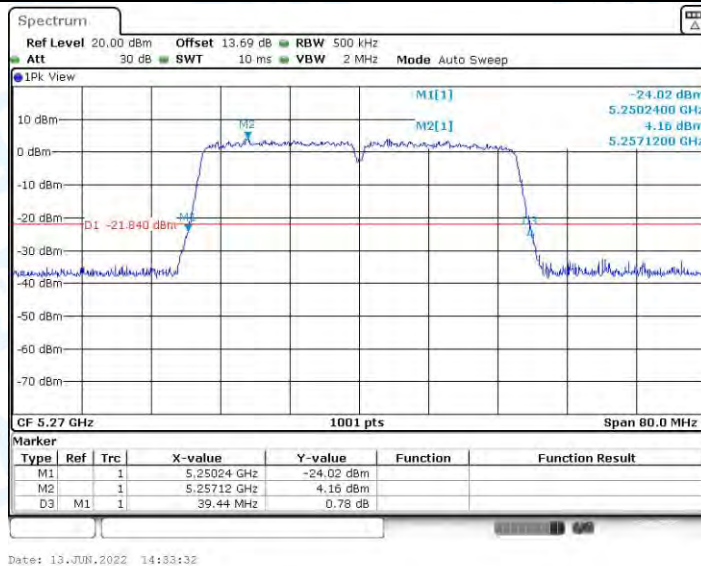
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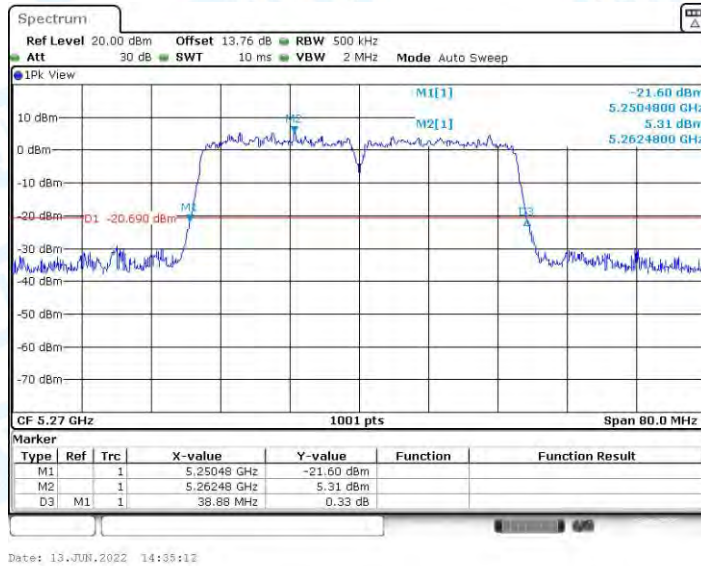
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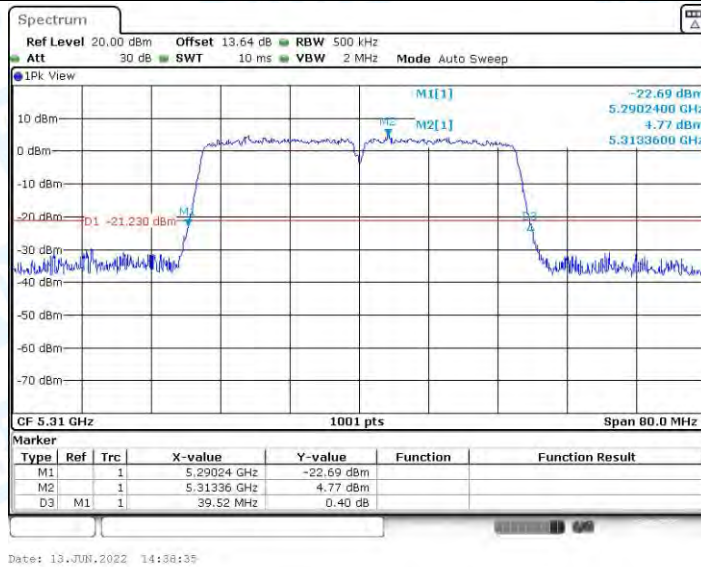
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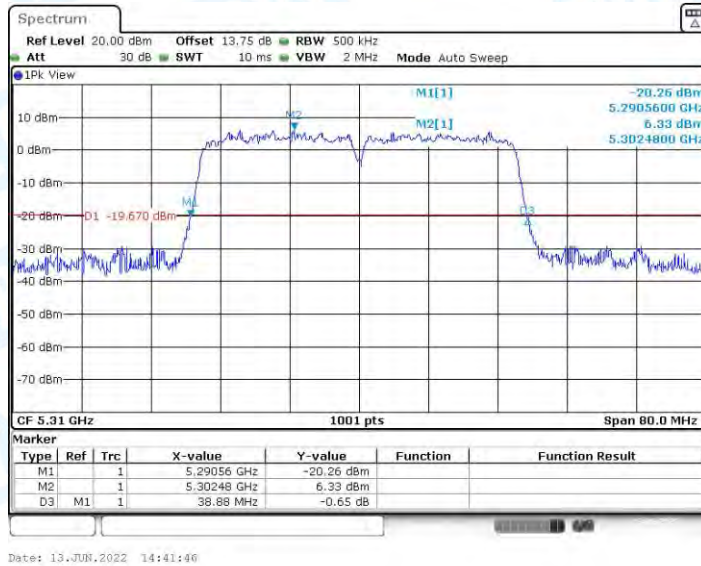
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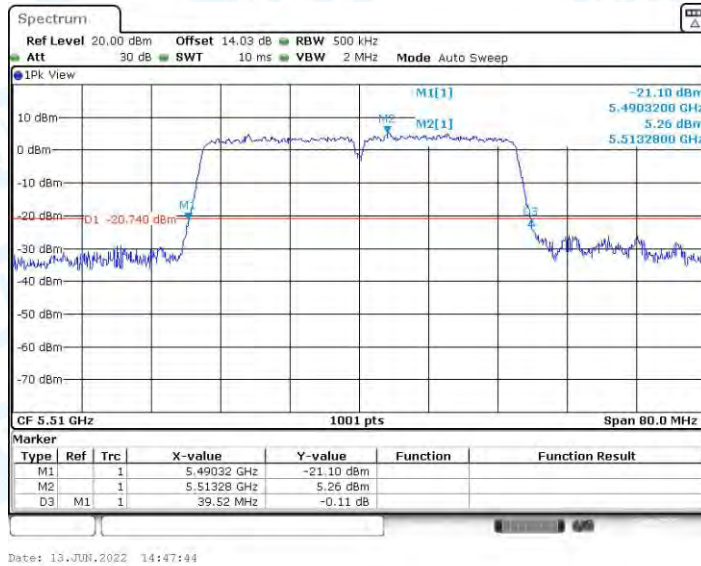
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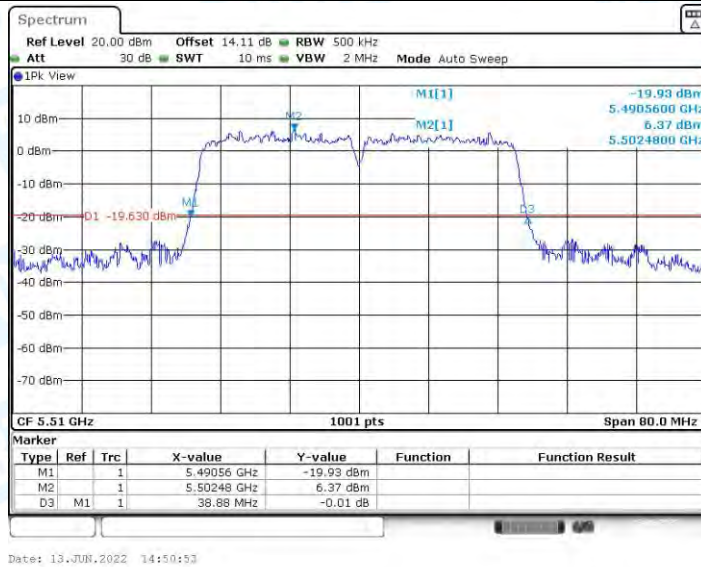
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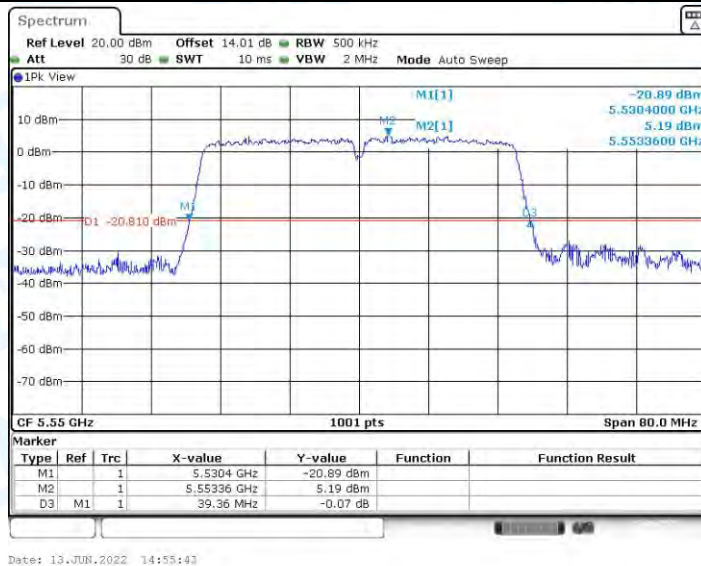
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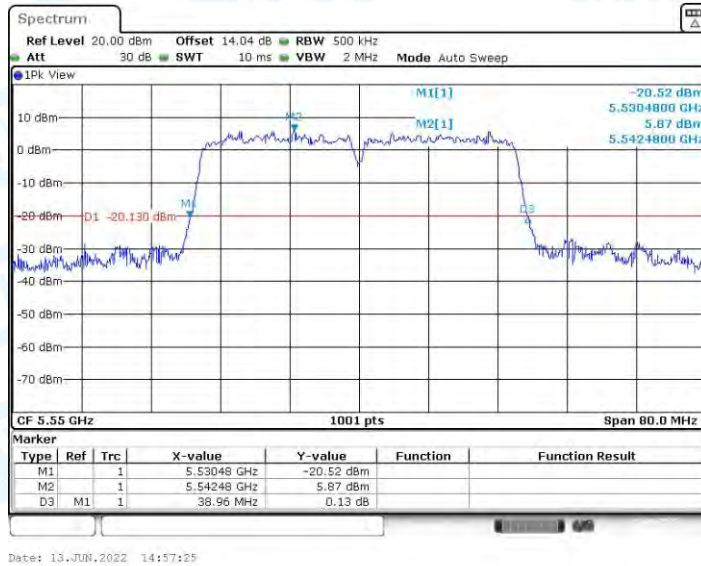
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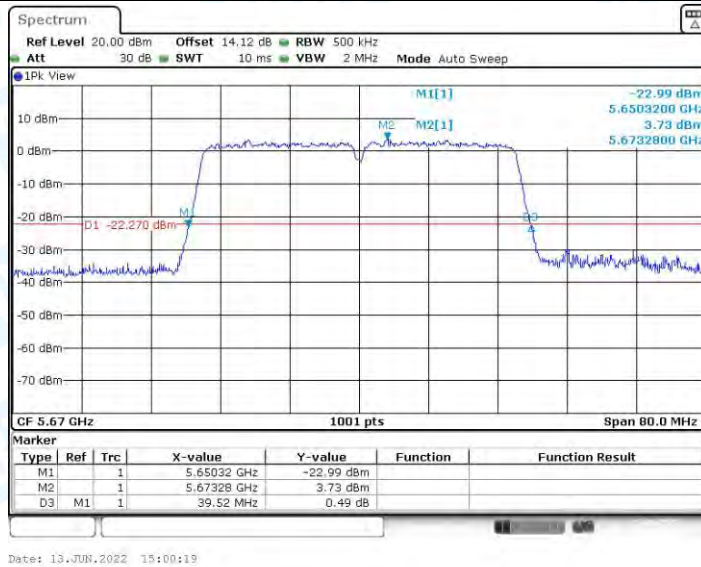
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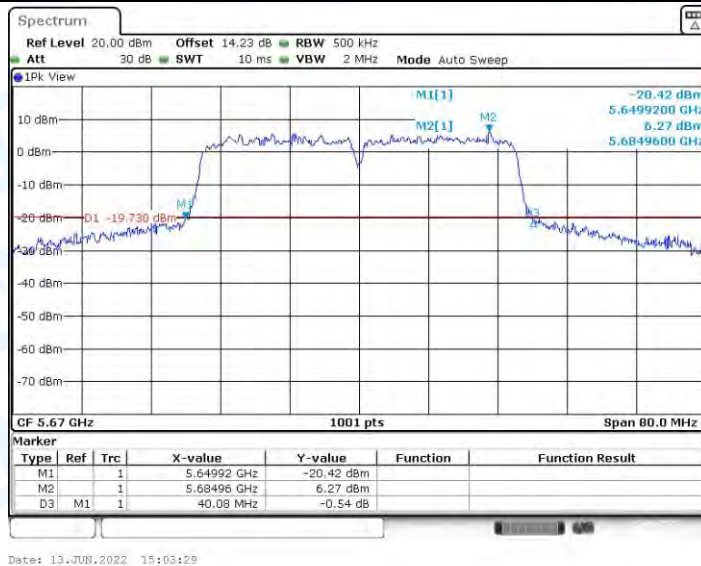


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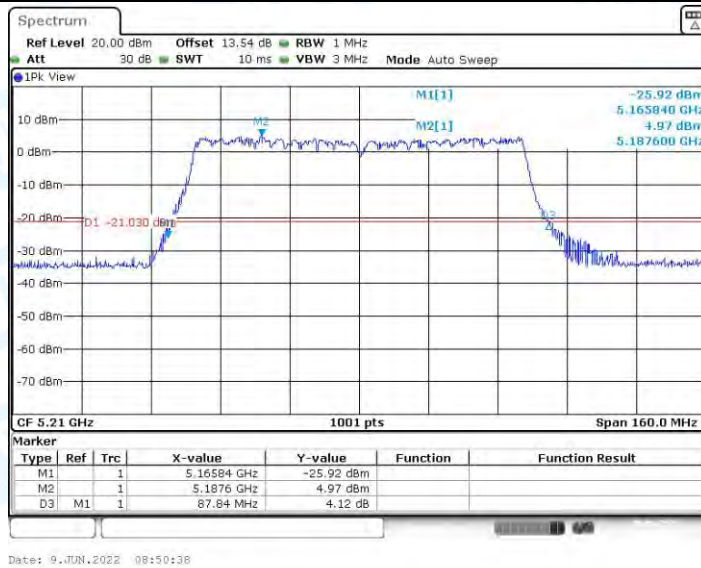


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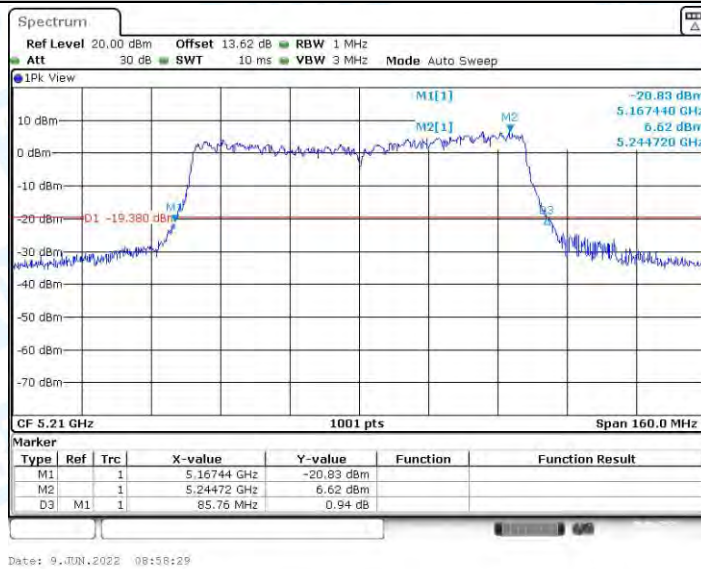




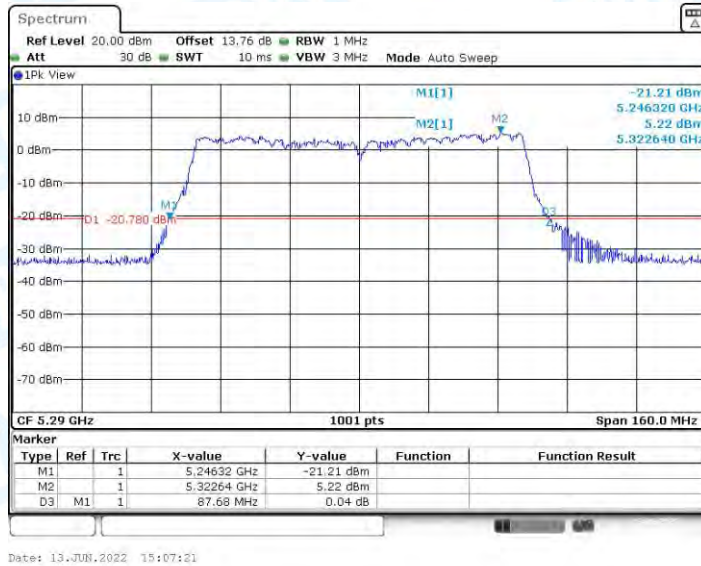
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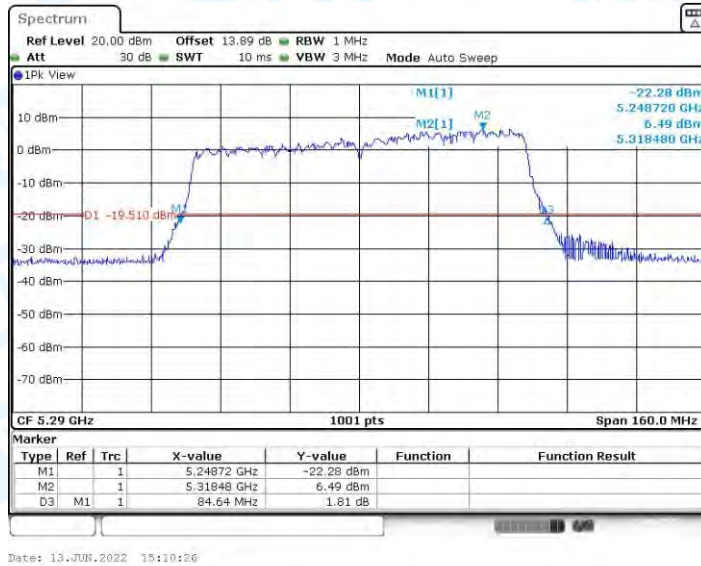
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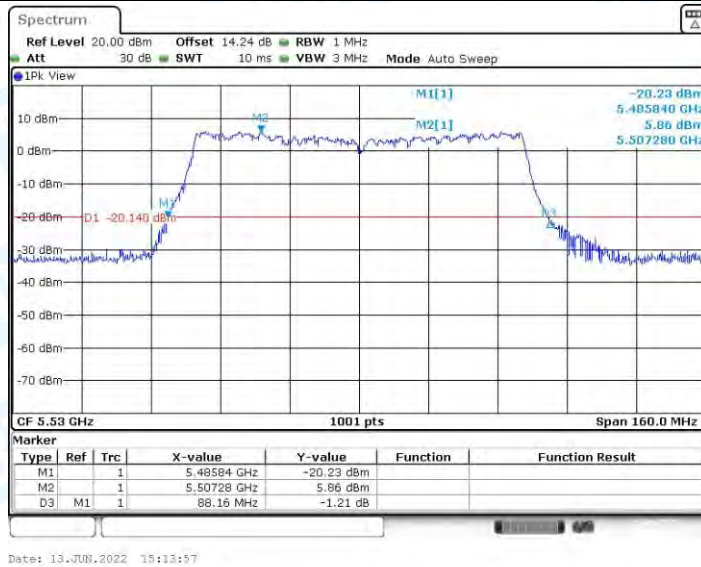
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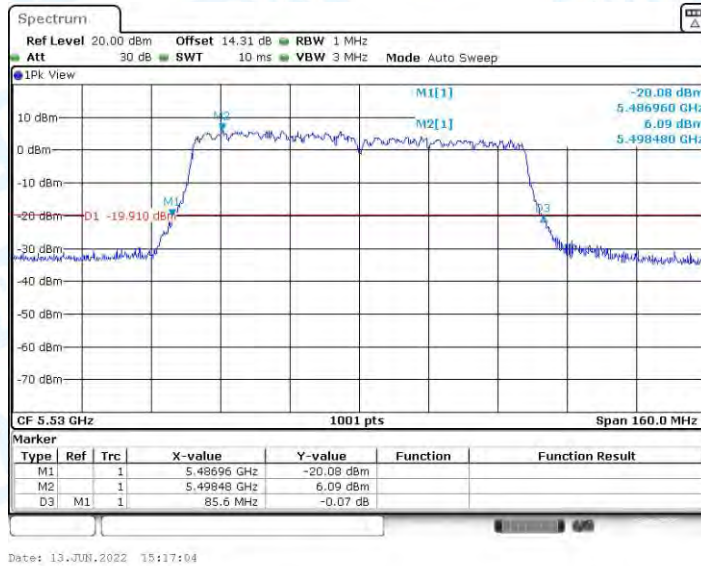
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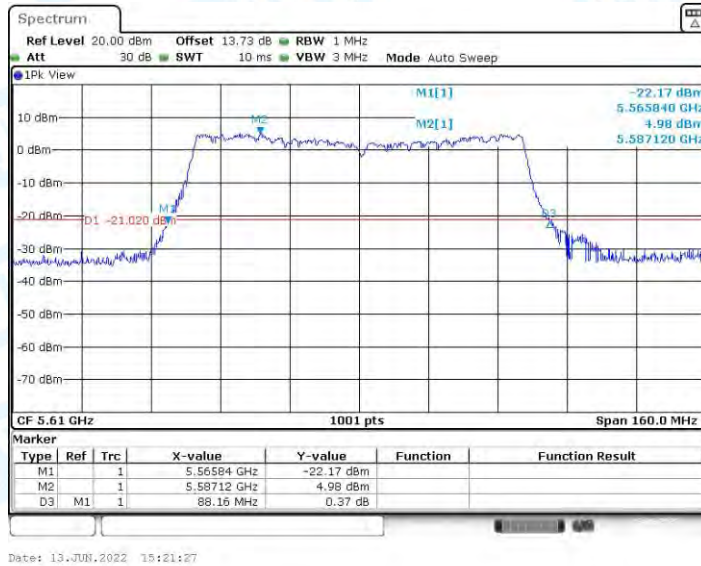
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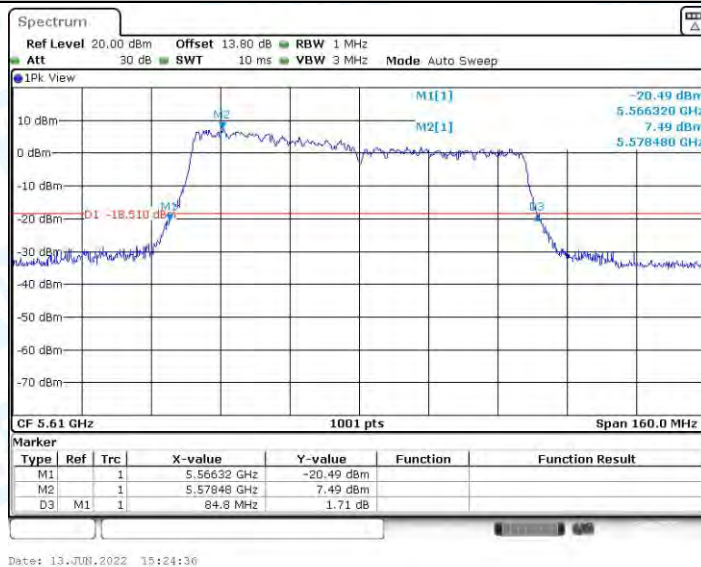
11AC80MIMO\_Ant1\_5530



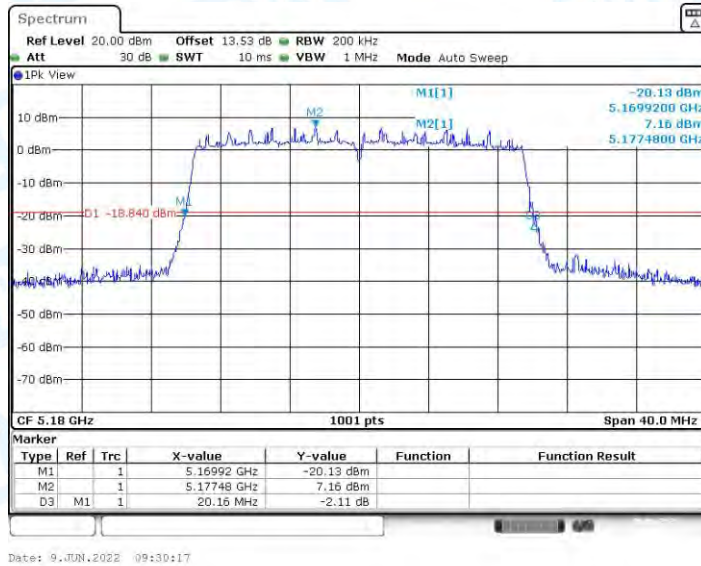
11AC80MIMO\_Ant2\_5530



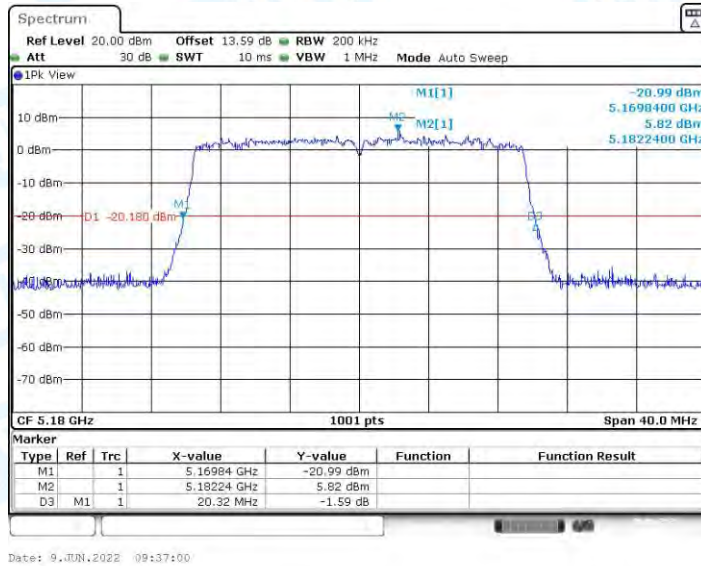
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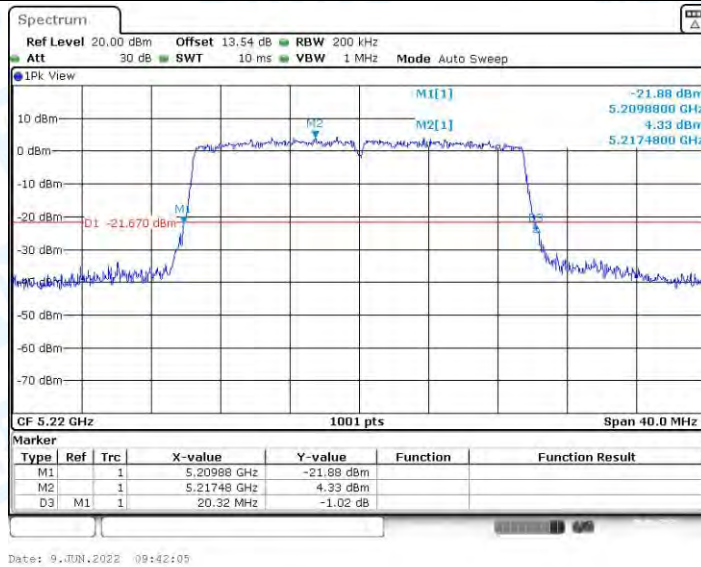
11AC80MIMO\_Ant2\_5610



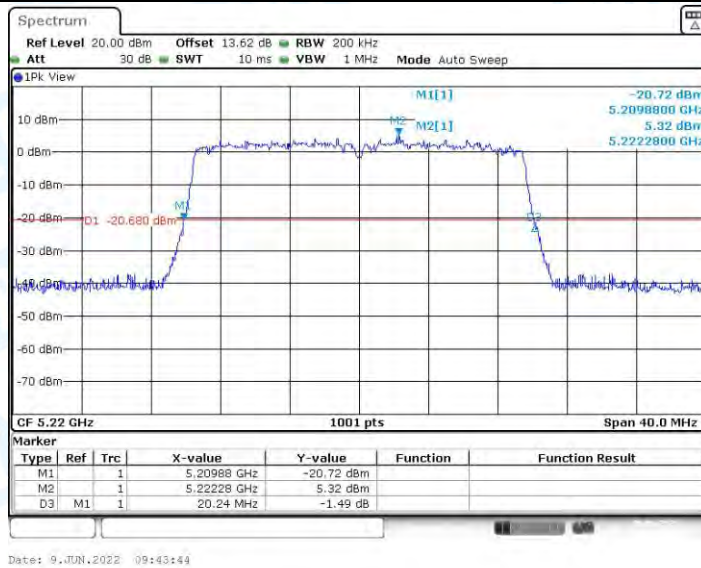
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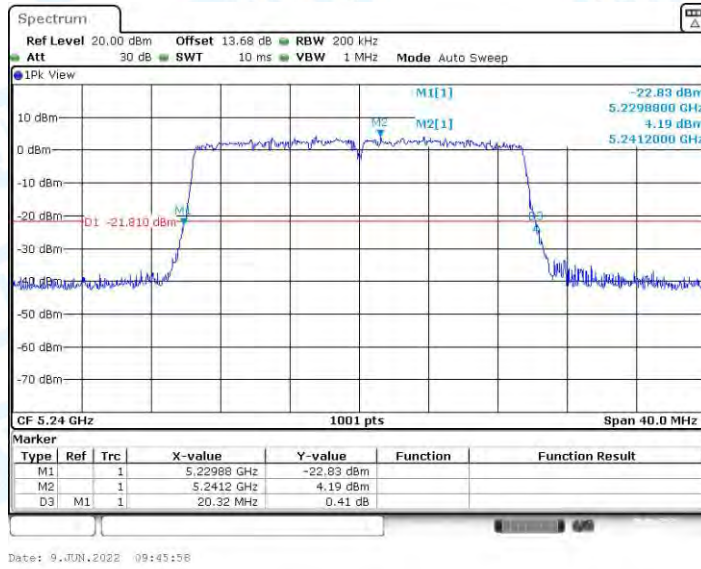
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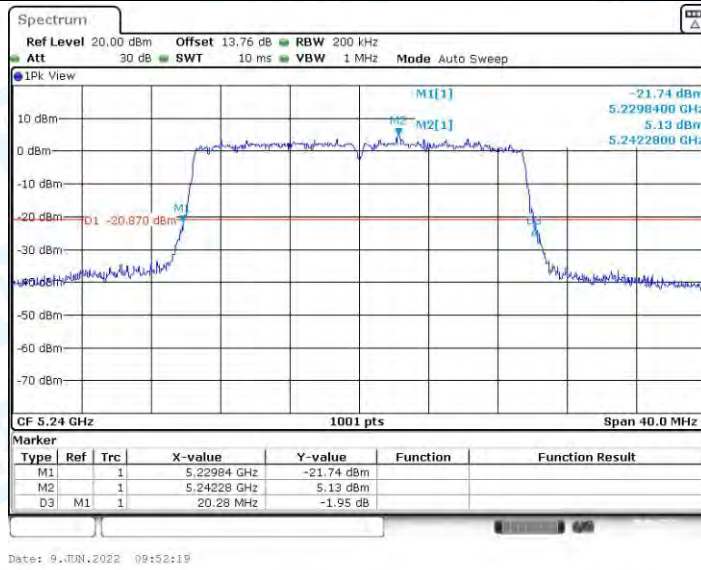
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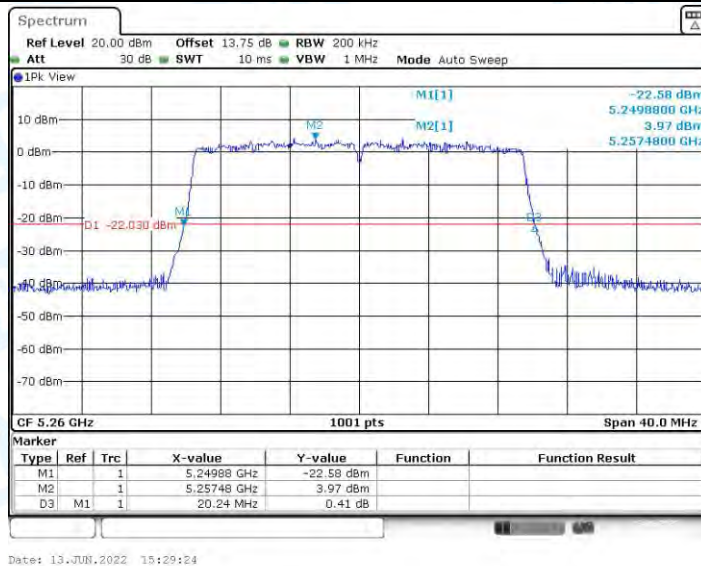
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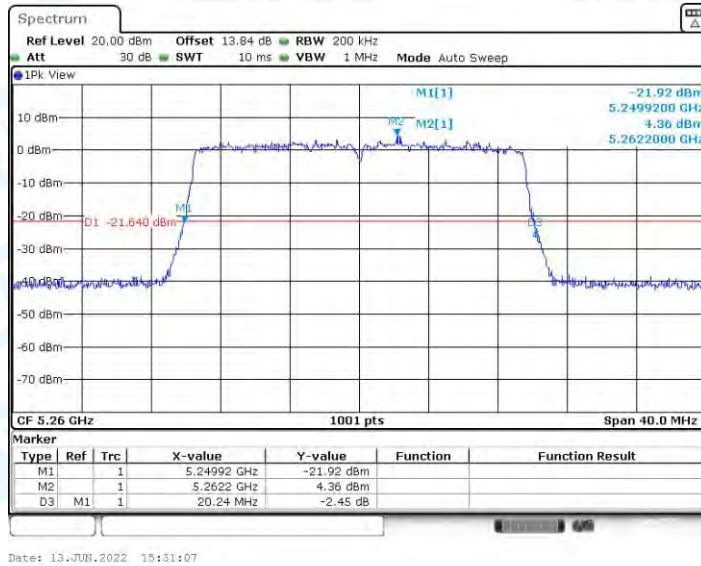
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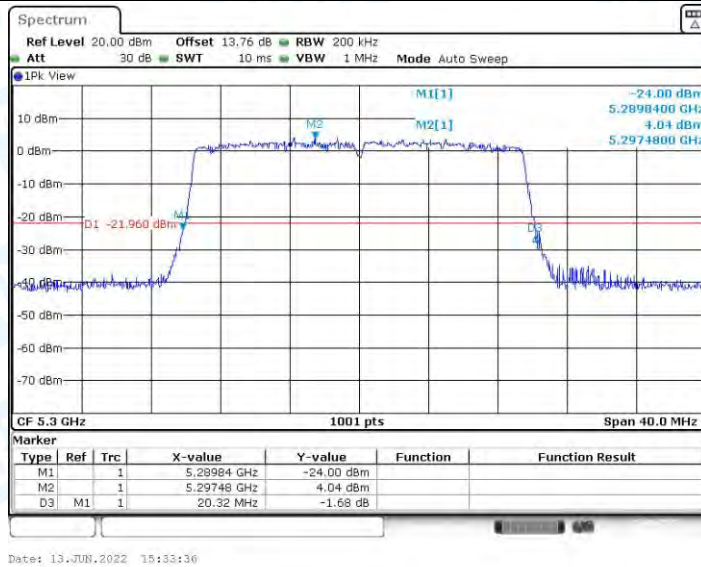
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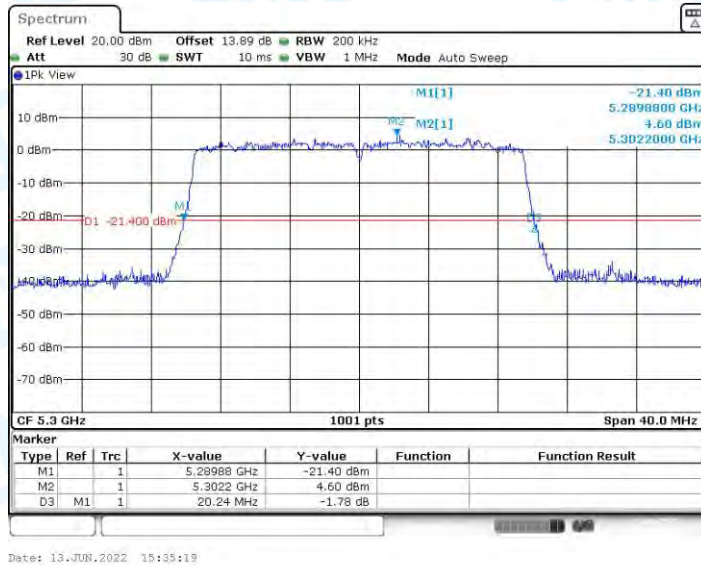
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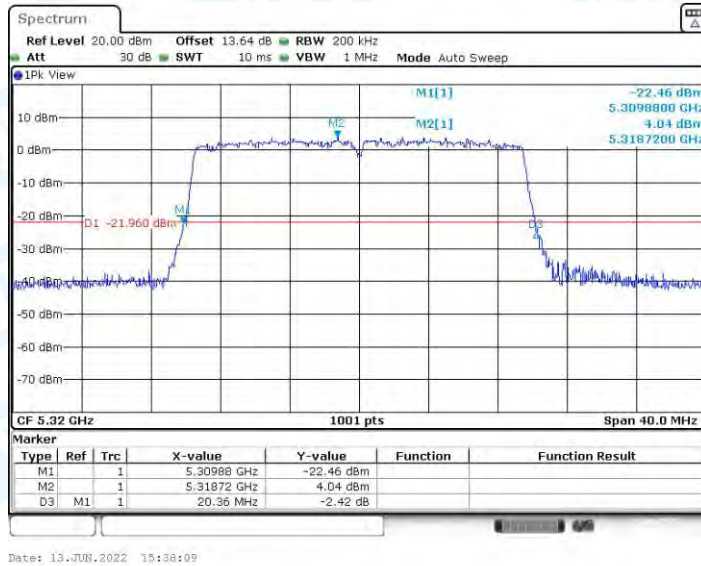
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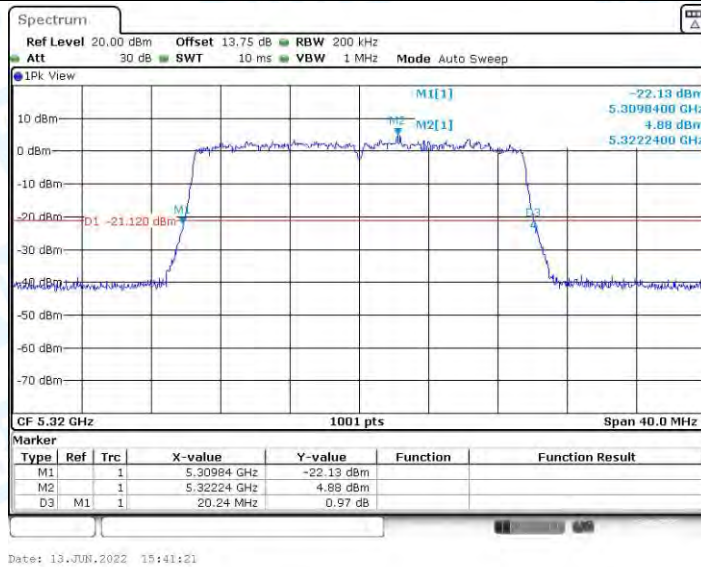
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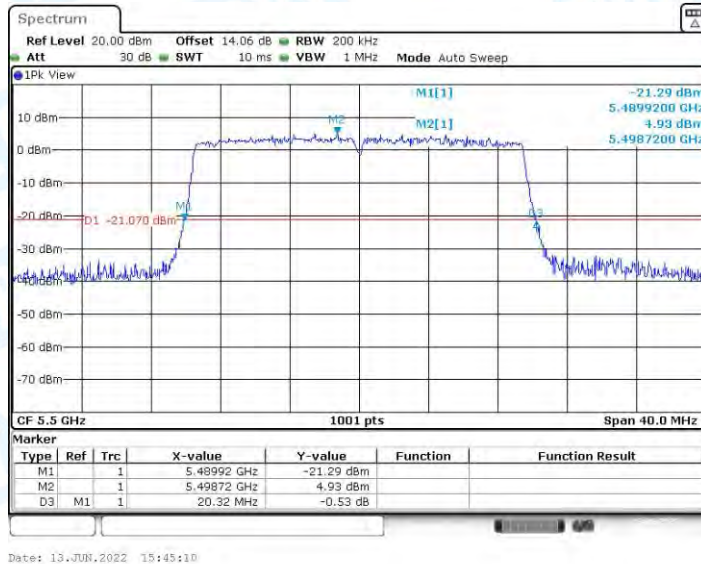
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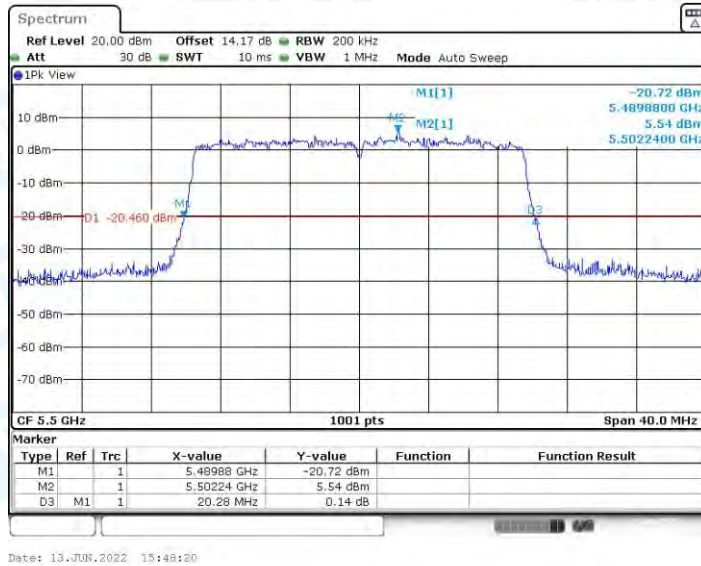
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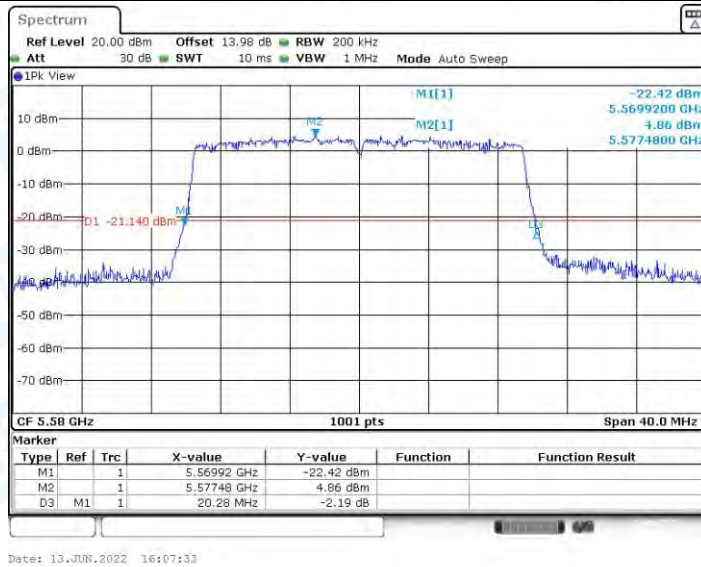
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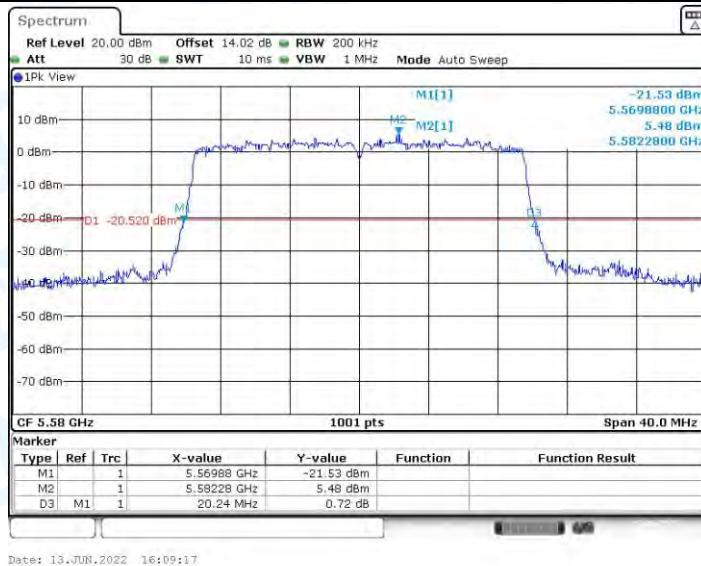


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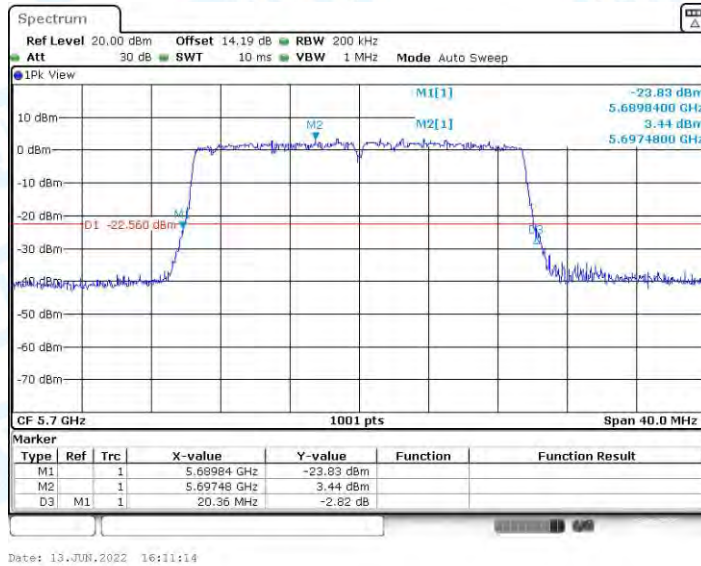


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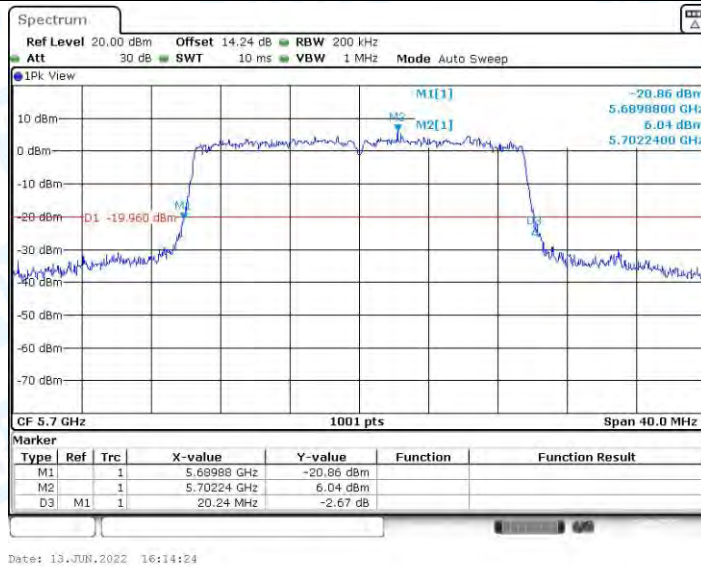




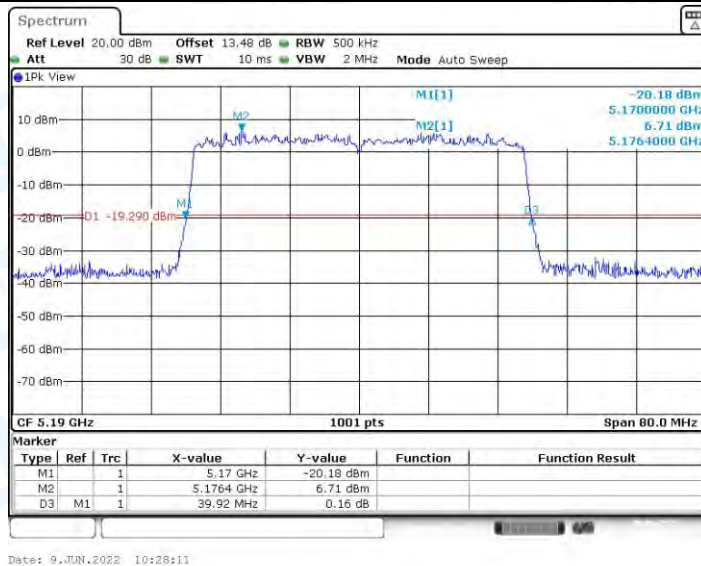
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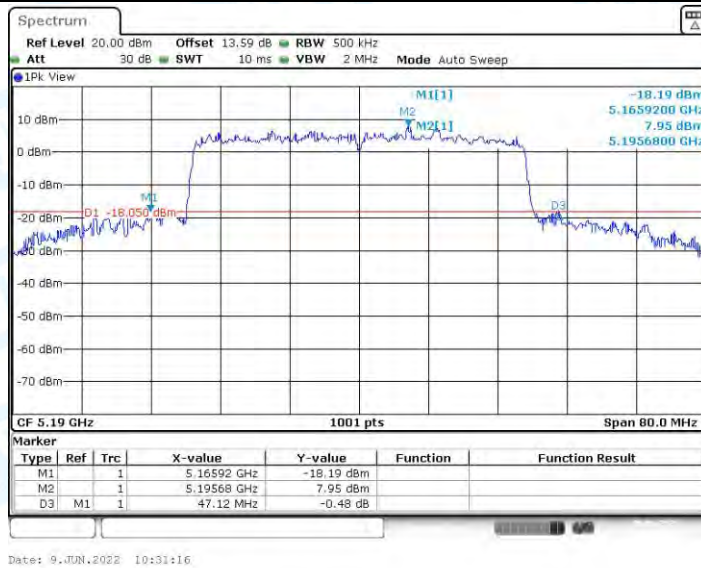
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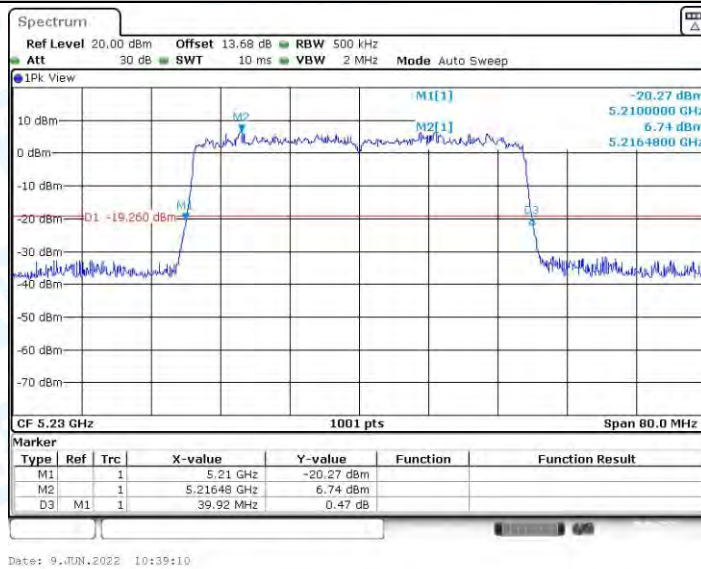
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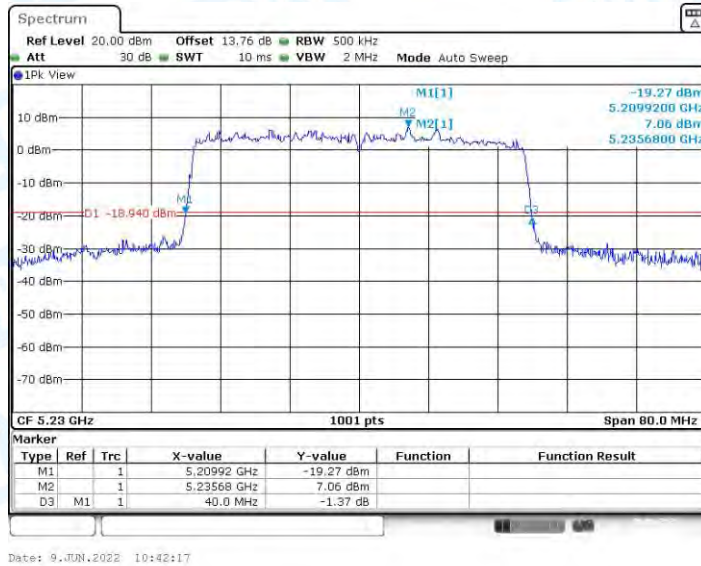
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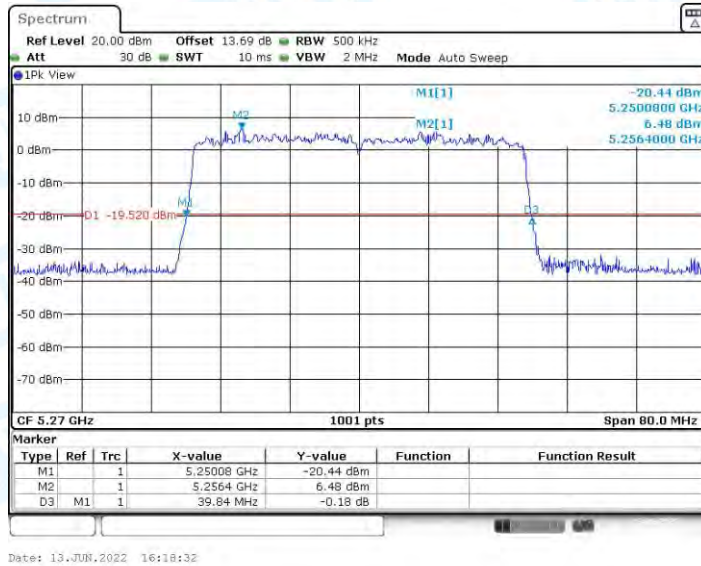
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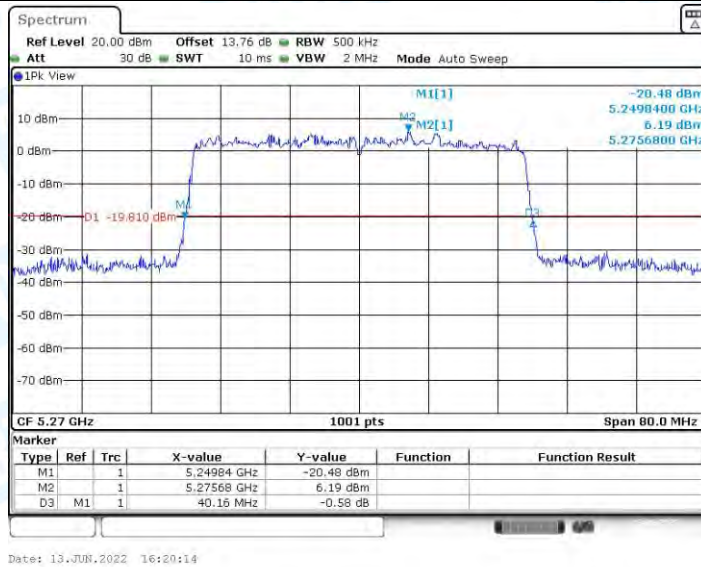
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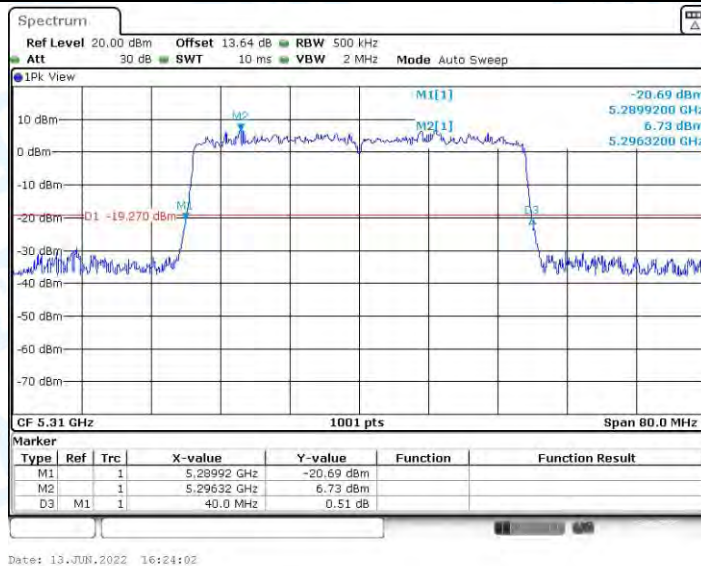
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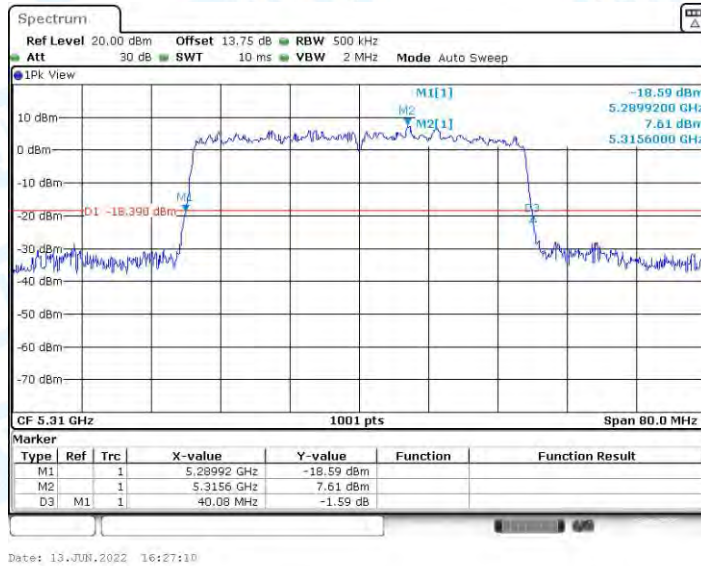
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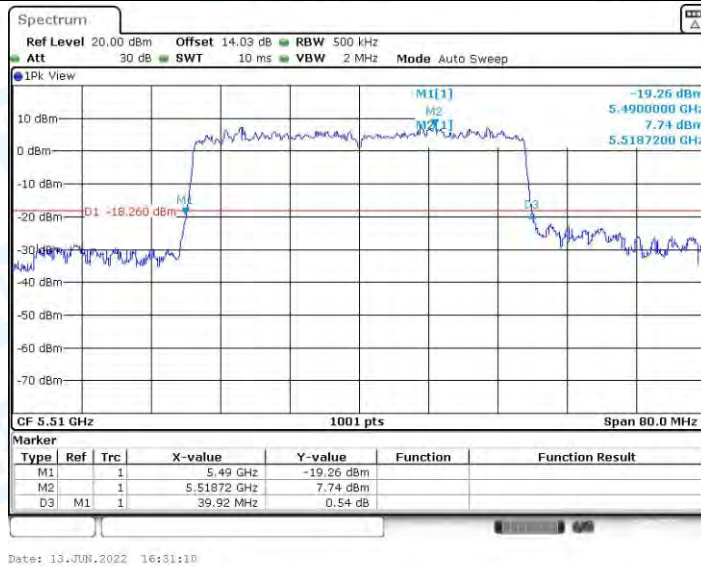
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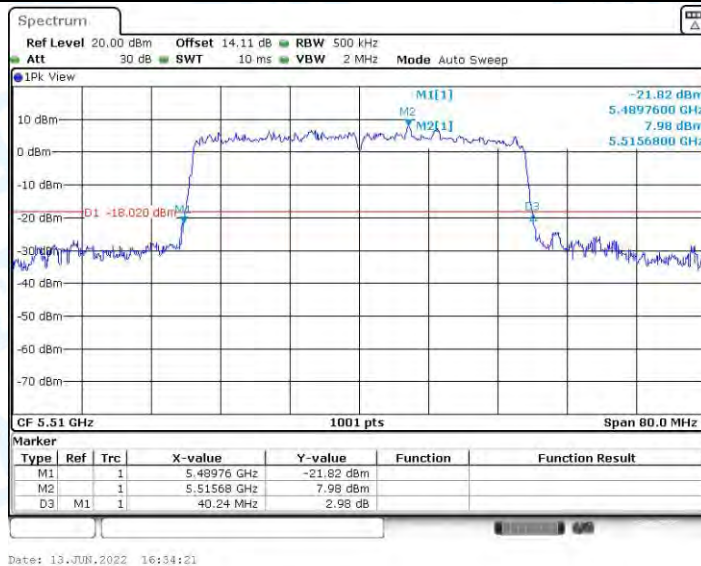
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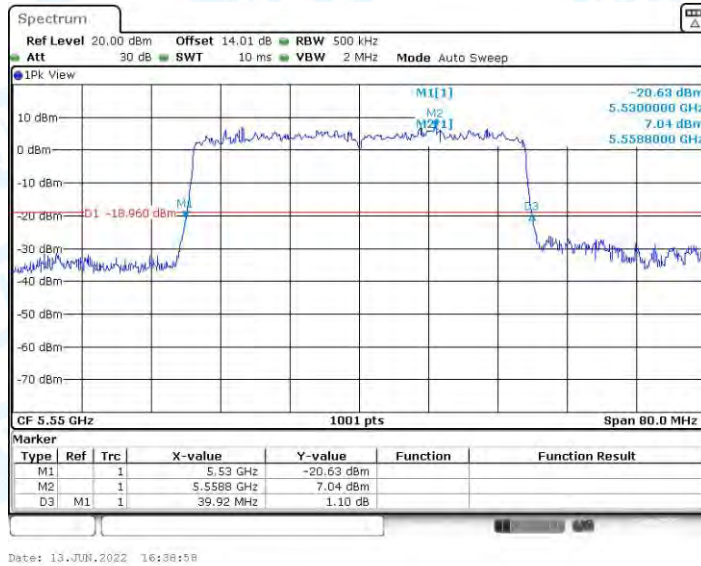
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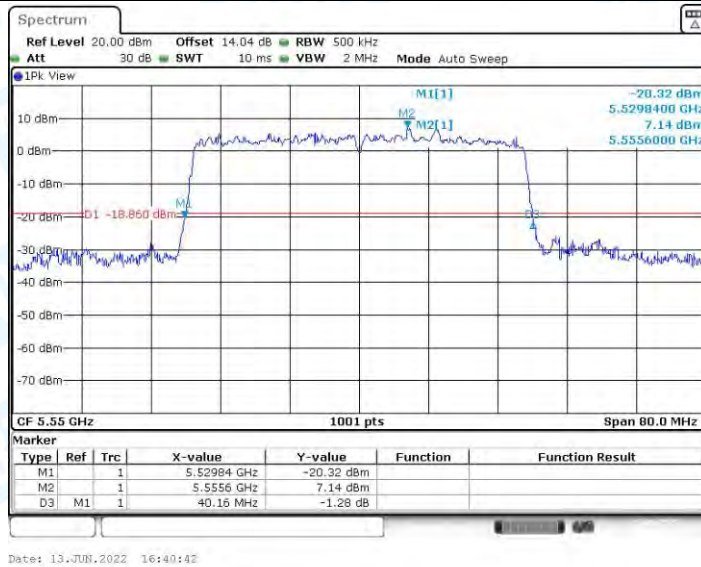
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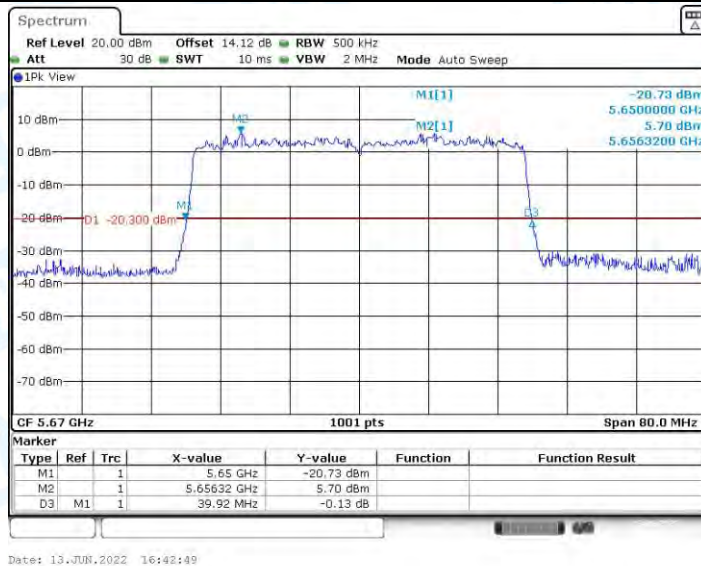
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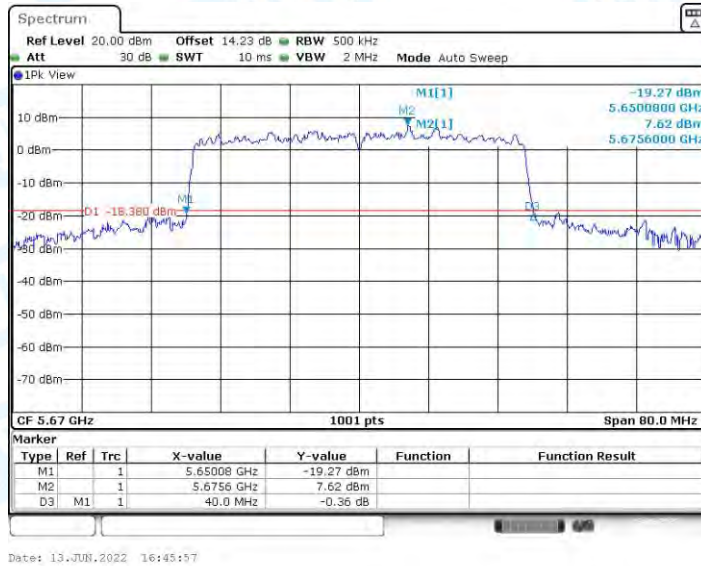
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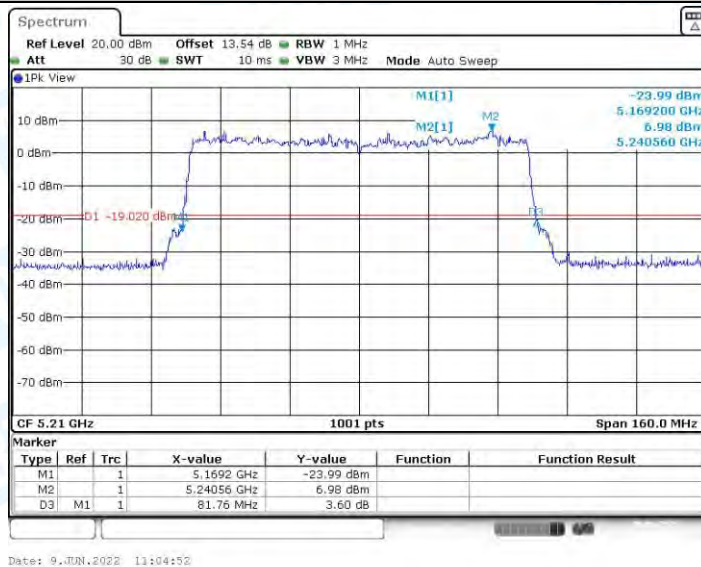
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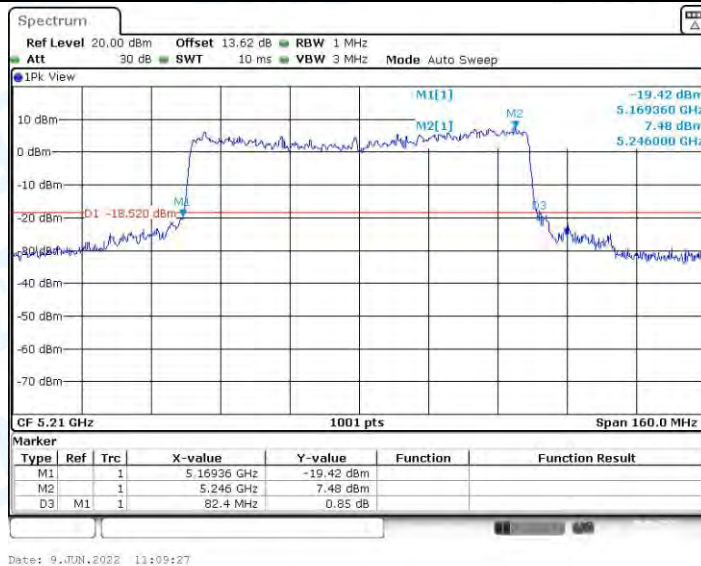
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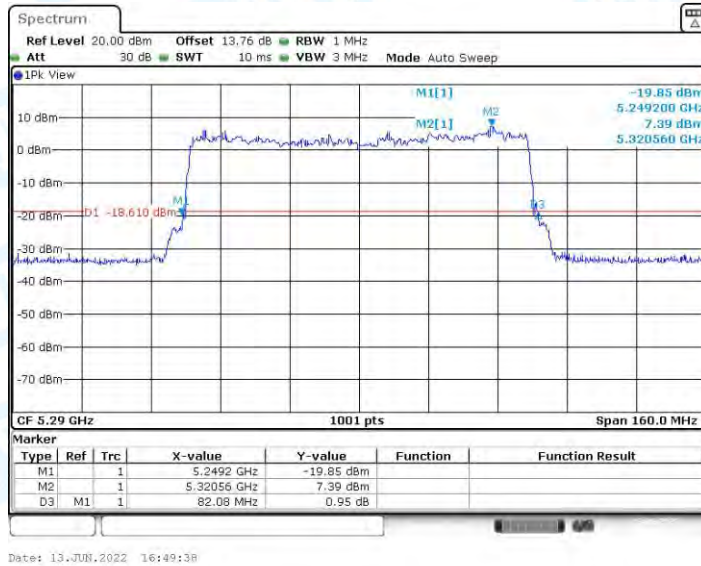
11AX40MIMO\_Ant2\_5670



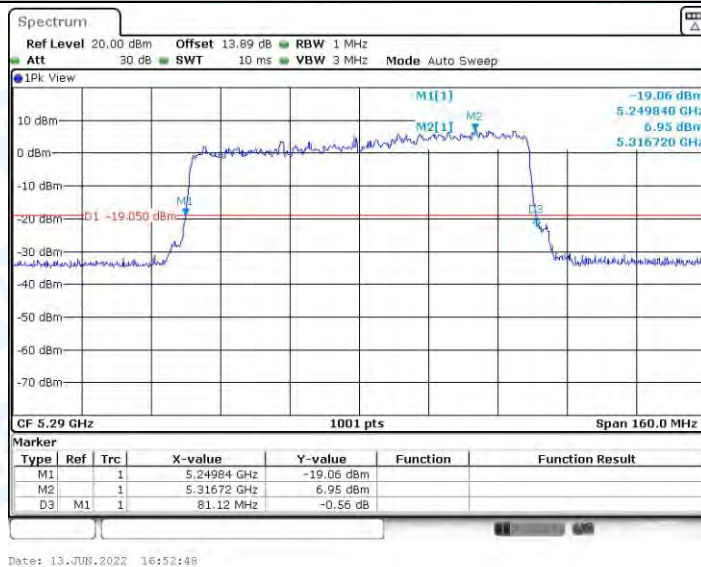
11AX80MIMO\_Ant1\_5210



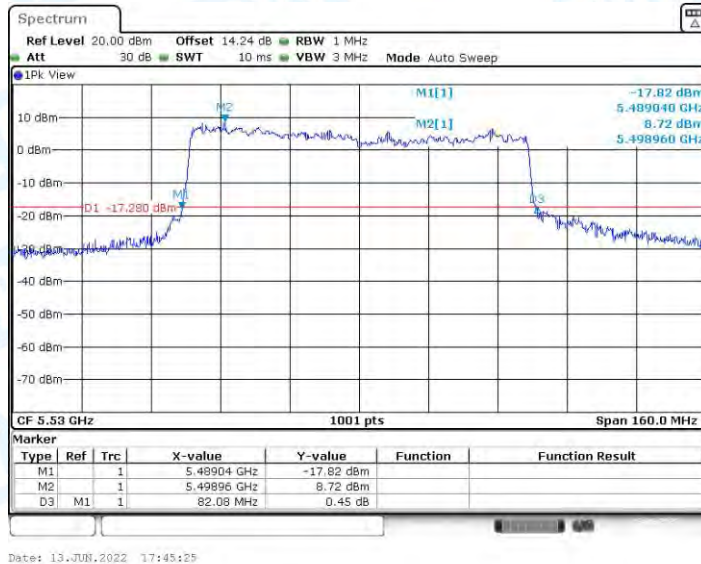
11AX80MIMO\_Ant2\_5210



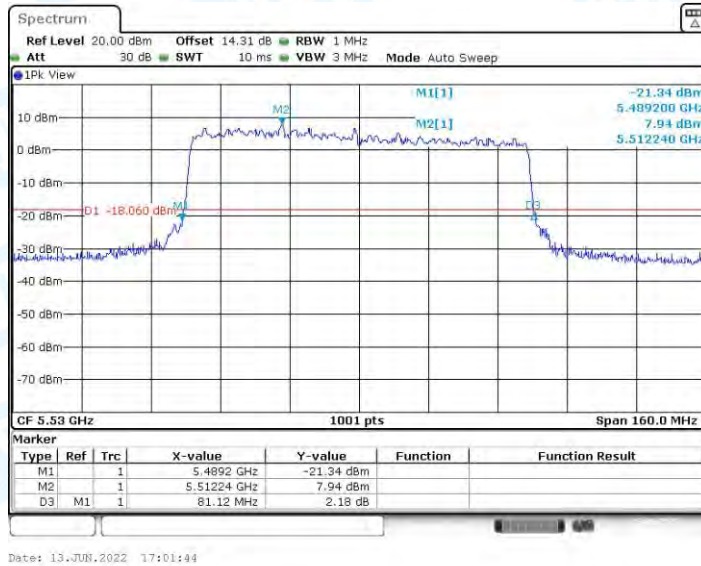
11AX80MIMO\_Ant1\_5290



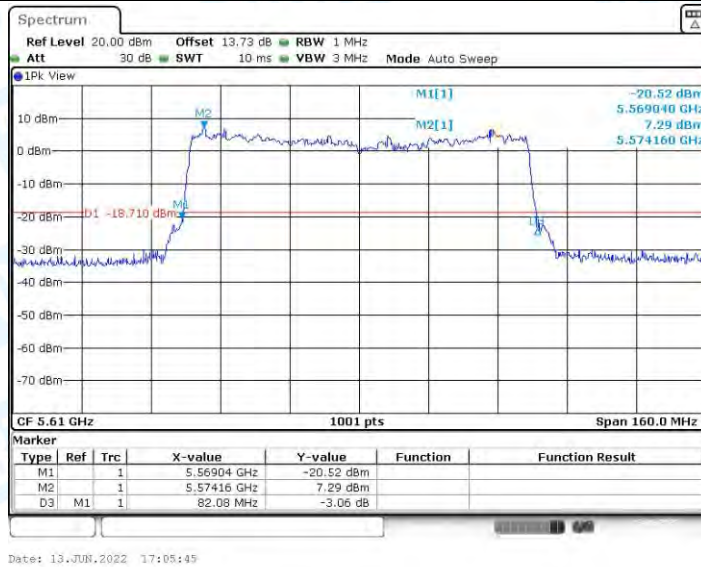
11AX80MIMO\_Ant2\_5290



11AX80MIMO\_Ant1\_5530

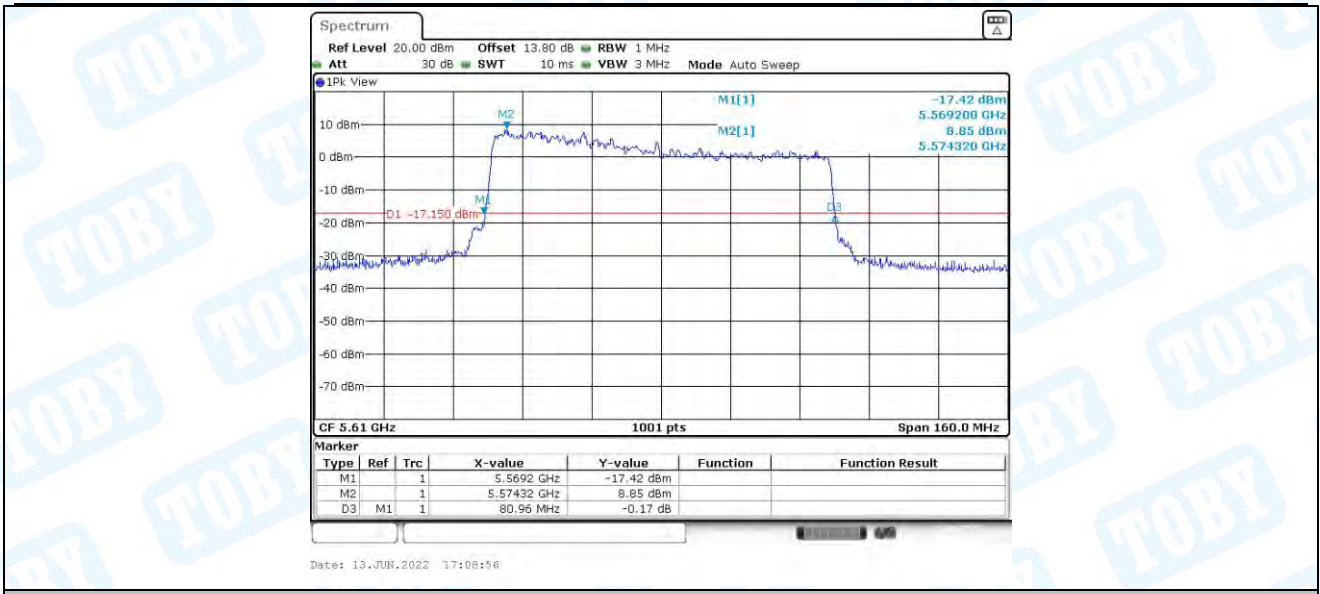


11AX80MIMO\_Ant2\_5530



11AX80MIMO\_Ant1\_5610





11AX80MIMO\_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	16.663	5171.608	5188.272	---	---
	Ant2	5180	16.583	5171.688	5188.272	---	---
	Ant1	5220	16.503	5211.768	5228.272	---	---
	Ant2	5220	16.464	5211.728	5228.192	---	---
	Ant1	5240	16.583	5231.728	5248.312	---	---
	Ant2	5240	16.503	5231.728	5248.232	---	---
	Ant1	5260	16.543	5251.728	5268.272	---	---
	Ant2	5260	16.503	5251.768	5268.272	---	---
	Ant1	5300	16.543	5291.728	5308.272	---	---
	Ant2	5300	16.543	5291.688	5308.232	---	---
	Ant1	5320	16.663	5311.728	5328.392	---	---
	Ant2	5320	16.583	5311.688	5328.272	---	---
	Ant1	5500	16.663	5491.688	5508.352	---	---
	Ant2	5500	16.464	5491.728	5508.192	---	---
	Ant1	5580	16.503	5571.728	5588.232	---	---
	Ant2	5580	16.503	5571.728	5588.232	---	---
	Ant1	5700	16.464	5691.768	5708.232	---	---
	Ant2	5700	16.503	5691.728	5708.232	---	---
11N20MIMO	Ant1	5180	17.582	5171.209	5188.791	---	---
	Ant2	5180	17.702	5171.129	5188.831	---	---
	Ant1	5220	17.702	5211.089	5228.791	---	---
	Ant2	5220	17.542	5211.169	5228.711	---	---
	Ant1	5240	17.702	5231.169	5248.871	---	---
	Ant2	5240	17.622	5231.169	5248.791	---	---
	Ant1	5260	19.301	5249.850	5269.151	---	---
	Ant2	5260	17.702	5251.049	5268.751	---	---
	Ant1	5300	17.622	5291.169	5308.791	---	---
	Ant2	5300	17.742	5291.129	5308.871	---	---
	Ant1	5320	17.542	5311.209	5328.751	---	---
	Ant2	5320	17.622	5311.169	5328.791	---	---
	Ant1	5500	17.742	5491.089	5508.831	---	---
	Ant2	5500	17.662	5491.129	5508.791	---	---
	Ant1	5580	17.702	5571.169	5588.871	---	---
	Ant2	5580	17.702	5571.129	5588.831	---	---
	Ant1	5700	17.702	5691.129	5708.831	---	---
	Ant2	5700	17.502	5691.209	5708.711	---	---
11N40MIMO	Ant1	5190	36.204	5171.858	5208.062	---	---
	Ant2	5190	36.204	5171.938	5208.142	---	---
	Ant1	5230	36.364	5211.778	5248.142	---	---
	Ant2	5230	36.284	5211.778	5248.062	---	---
	Ant1	5270	36.124	5251.778	5287.902	---	---

	Ant2	5270	35.884	5252.018	5287.902	---	---
	Ant1	5310	36.364	5291.778	5328.142	---	---
	Ant2	5310	36.204	5291.858	5328.062	---	---
	Ant1	5510	36.444	5491.778	5528.222	---	---
	Ant2	5510	36.284	5491.778	5528.062	---	---
	Ant1	5550	36.124	5531.938	5568.062	---	---
	Ant2	5550	36.124	5531.938	5568.062	---	---
	Ant1	5670	36.204	5651.858	5688.062	---	---
	Ant2	5670	36.444	5651.858	5688.302	---	---
11AC20MIMO	Ant1	5180	17.622	5171.169	5188.791	---	---
	Ant2	5180	17.662	5171.169	5188.831	---	---
	Ant1	5220	17.622	5211.169	5228.791	---	---
	Ant2	5220	17.742	5211.089	5228.831	---	---
	Ant1	5240	17.742	5231.129	5248.871	---	---
	Ant2	5240	17.622	5231.089	5248.711	---	---
	Ant1	5260	19.021	5250.410	5269.431	---	---
	Ant2	5260	18.901	5250.490	5269.391	---	---
	Ant1	5300	18.981	5290.490	5309.471	---	---
	Ant2	5300	18.901	5290.569	5309.471	---	---
	Ant1	5320	19.061	5310.410	5329.471	---	---
	Ant2	5320	19.021	5310.490	5329.510	---	---
	Ant1	5500	18.941	5490.490	5509.431	---	---
	Ant2	5500	18.981	5490.529	5509.510	---	---
	Ant1	5580	17.742	5571.129	5588.871	---	---
	Ant2	5580	17.582	5571.169	5588.751	---	---
	Ant1	5700	17.622	5691.169	5708.791	---	---
	Ant2	5700	17.622	5691.209	5708.831	---	---
11AC40MIMO	Ant1	5190	36.204	5171.858	5208.062	---	---
	Ant2	5190	36.204	5171.858	5208.062	---	---
	Ant1	5230	36.204	5211.938	5248.142	---	---
	Ant2	5230	36.204	5211.778	5247.982	---	---
	Ant1	5270	36.124	5251.778	5287.902	---	---
	Ant2	5270	36.204	5251.858	5288.062	---	---
	Ant1	5310	36.364	5291.698	5328.062	---	---
	Ant2	5310	36.364	5291.778	5328.142	---	---
	Ant1	5510	36.523	5491.858	5528.382	---	---
	Ant2	5510	36.204	5491.858	5528.062	---	---
	Ant1	5550	36.204	5531.858	5568.062	---	---
	Ant2	5550	36.284	5531.778	5568.062	---	---
	Ant1	5670	36.124	5651.938	5688.062	---	---
	Ant2	5670	36.444	5651.778	5688.222	---	---
11AC80MIMO	Ant1	5210	76.404	5171.638	5248.042	---	---
	Ant2	5210	76.563	5172.118	5248.681	---	---
	Ant1	5290	77.682	5250.999	5328.681	---	---
	Ant2	5290	75.924	5252.597	5328.521	---	---
	Ant1	5530	76.563	5491.638	5568.202	---	---

	Ant2	5530	76.563	5491.479	5568.042	---	---	
	Ant1	5610	76.563	5571.798	5648.362	---	---	
	Ant2	5610	76.883	5570.999	5647.882	---	---	
11AX20MIMO	Ant1	5180	18.901	5170.450	5189.351	---	---	
	Ant2	5180	18.901	5170.529	5189.431	---	---	
	Ant1	5220	18.981	5210.529	5229.510	---	---	
	Ant2	5220	18.901	5210.490	5229.391	---	---	
	Ant1	5240	18.981	5230.490	5249.471	---	---	
	Ant2	5240	18.981	5230.529	5249.510	---	---	
	Ant1	5260	19.021	5250.450	5269.471	---	---	
	Ant2	5260	18.941	5250.490	5269.431	---	---	
	Ant1	5300	18.861	5290.569	5309.431	---	---	
	Ant2	5300	19.021	5290.490	5309.510	---	---	
	Ant1	5320	18.901	5310.529	5329.431	---	---	
	Ant2	5320	18.981	5310.490	5329.471	---	---	
	Ant1	5500	19.061	5490.410	5509.471	---	---	
	Ant2	5500	19.021	5490.450	5509.471	---	---	
	Ant1	5580	19.061	5570.450	5589.510	---	---	
	Ant2	5580	18.981	5570.490	5589.471	---	---	
	Ant1	5700	18.941	5690.529	5709.471	---	---	
	Ant2	5700	19.061	5690.450	5709.510	---	---	
	11AX40MIMO	Ant1	5190	37.483	5171.219	5208.701	---	---
		Ant2	5190	37.962	5170.979	5208.941	---	---
Ant1		5230	37.962	5210.979	5248.941	---	---	
Ant2		5230	37.802	5211.059	5248.861	---	---	
Ant1		5270	37.802	5250.899	5288.701	---	---	
Ant2		5270	37.722	5251.059	5288.781	---	---	
Ant1		5310	37.962	5291.059	5329.021	---	---	
Ant2		5310	37.882	5291.059	5328.941	---	---	
Ant1		5510	38.042	5491.059	5529.101	---	---	
Ant2		5510	37.962	5490.979	5528.941	---	---	
Ant1		5550	37.802	5531.059	5568.861	---	---	
Ant2		5550	37.962	5530.979	5568.941	---	---	
Ant1		5670	37.802	5651.059	5688.861	---	---	
Ant2		5670	37.882	5651.059	5688.941	---	---	
11AX80MIMO	Ant1	5210	77.522	5171.479	5249.001	---	---	
	Ant2	5210	77.203	5171.798	5249.001	---	---	
	Ant1	5290	77.842	5251.159	5329.001	---	---	
	Ant2	5290	77.363	5251.638	5329.001	---	---	
	Ant1	5530	77.682	5490.999	5568.681	---	---	
	Ant2	5530	78.322	5490.679	5569.001	---	---	
	Ant1	5610	77.682	5571.319	5649.001	---	---	
	Ant2	5610	77.522	5570.519	5648.042	---	---	