

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

General Description of EUT	
Product Name:	Pilot X
Test Model:	Pilot X
Sample ID:	RW-C-202209-0243-1-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 7.6V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202211-0239-62	

Contents

1. Emission Bandwidth	3
1.1. Test Result	3
2.1. Test Graphs	4
2. Occupied channel bandwidth	14
2.1. Test Result	14
2.2. Test Graphs	15
4. Maximum conducted output power	25
4.1. Test Result	25
5. Maximum power spectral density	27
5.1. Test Result	27
5.2. Test Graphs	29
6. Band edge measurements	39
6.1. Test Result	39
6.2. Test Graphs	40
7. Emissions in Restricted Bands	50
7.1. Test Result	50
7.2. Test Graphs	56
8. Conducted Spurious Emission	73
8.1. Test Result	73
8.2. Test Graphs	75
9. Frequency Stability	94
9.1. Test Result	94
10. Duty Cycle	96
10.1. Test Result	96
10.2. Test Graphs	97

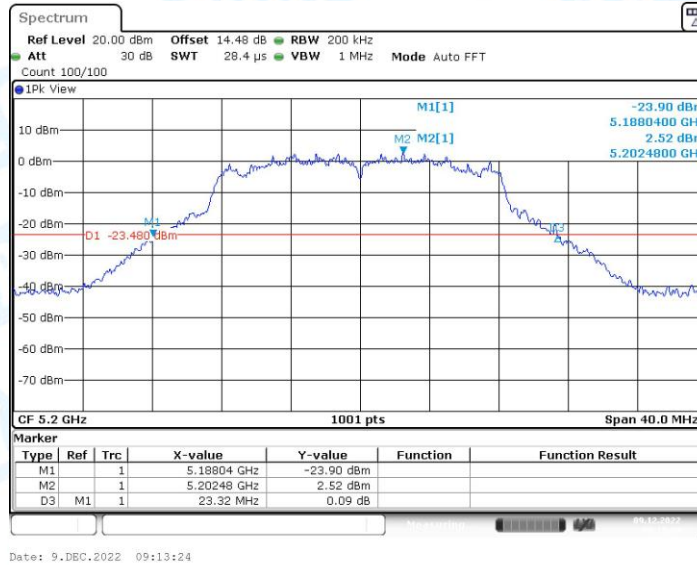
1. Emission Bandwidth

1.1. Test Result

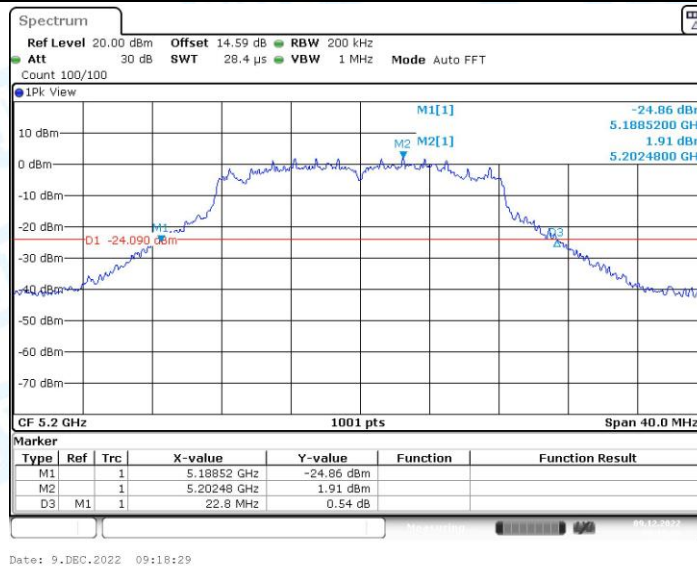
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	22.80	5168.28	5191.08	---	---
	Ant2	5180	23.60	5167.72	5191.32	---	---
	Ant1	5200	23.32	5188.04	5211.36	---	---
	Ant2	5200	22.80	5188.52	5211.32	---	---
	Ant1	5240	23.64	5228.56	5252.20	---	---
	Ant2	5240	25.16	5227.36	5252.52	---	---
11N20MIMO	Ant1	5180	23.20	5168.32	5191.52	---	---
	Ant2	5180	23.96	5167.96	5191.92	---	---
	Ant1	5200	24.32	5187.92	5212.24	---	---
	Ant2	5200	23.00	5188.36	5211.36	---	---
	Ant1	5240	23.32	5228.32	5251.64	---	---
	Ant2	5240	24.20	5227.96	5252.16	---	---
11N40MIMO	Ant1	5190	43.28	5168.16	5211.44	---	---
	Ant2	5190	41.76	5168.96	5210.72	---	---
	Ant1	5230	42.64	5208.24	5250.88	---	---
	Ant2	5230	42.32	5208.64	5250.96	---	---
11AC20MIMO	Ant1	5180	24.40	5167.60	5192.00	---	---
	Ant2	5180	24.04	5167.92	5191.96	---	---
	Ant1	5200	23.28	5188.36	5211.64	---	---
	Ant2	5200	24.80	5187.68	5212.48	---	---
	Ant1	5240	24.04	5228.08	5252.12	---	---
	Ant2	5240	25.48	5227.08	5252.56	---	---
11AC40MIMO	Ant1	5190	42.64	5168.48	5211.12	---	---
	Ant2	5190	41.20	5169.84	5211.04	---	---
	Ant1	5230	43.20	5208.40	5251.60	---	---
	Ant2	5230	43.52	5208.08	5251.60	---	---
11AC80MIMO	Ant1	5210	81.92	5169.20	5251.12	---	---
	Ant2	5210	82.88	5168.88	5251.76	---	---

2.1. Test Graphs

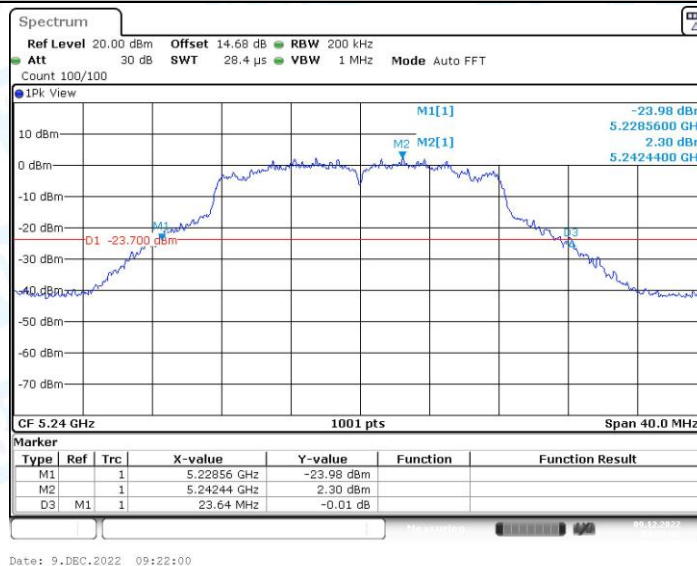




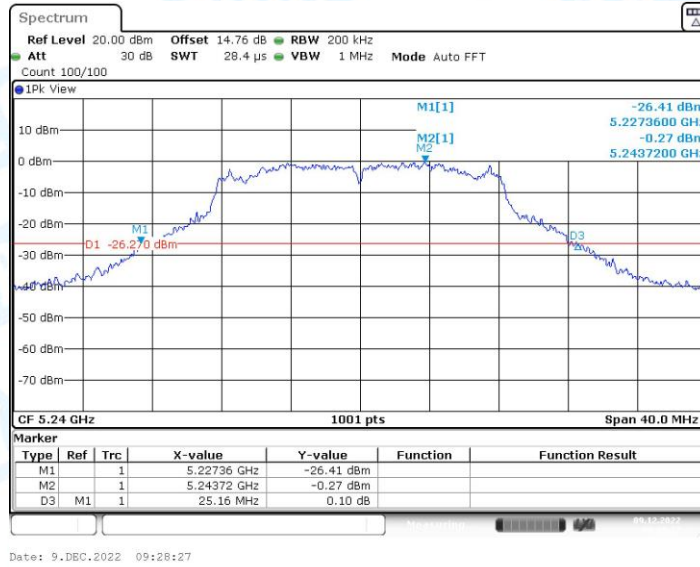
11A-CDD_Ant2_5200



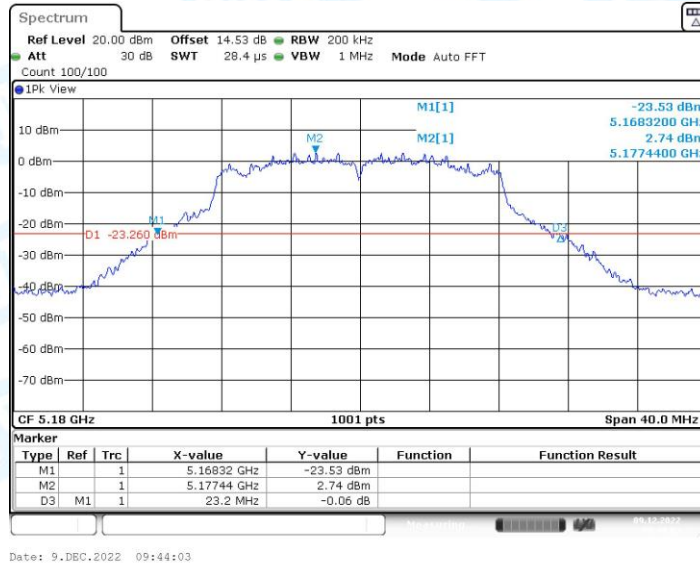
11A-CDD_Ant1_5240



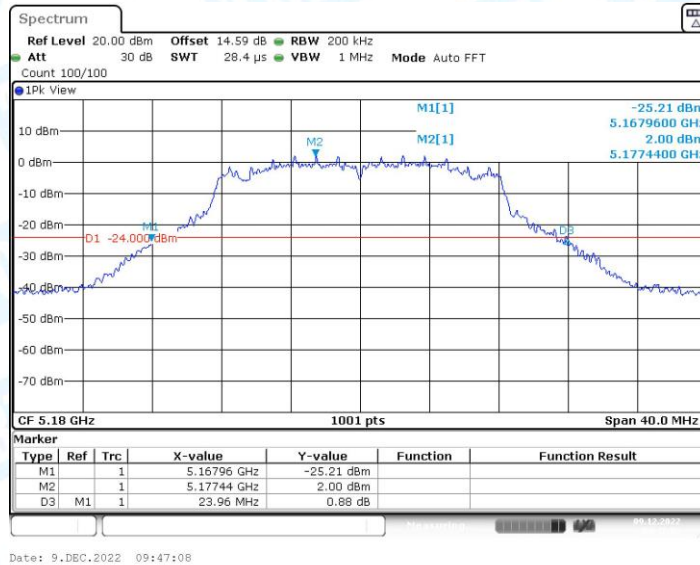
11A-CDD_Ant2_5240



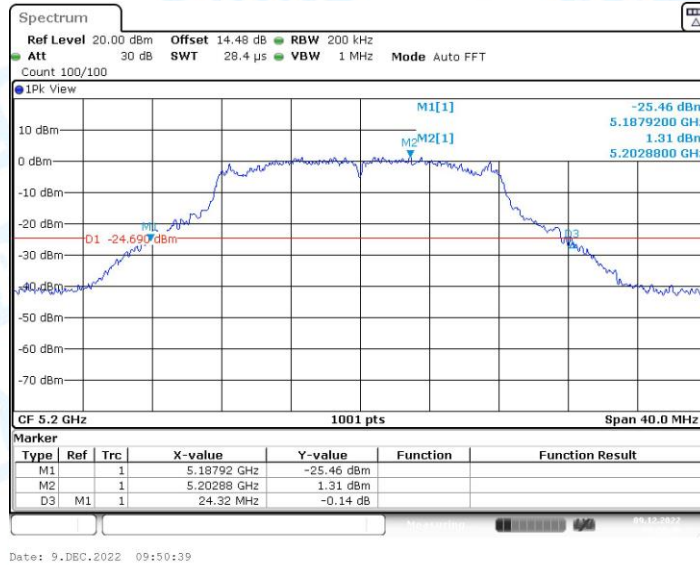
11N20MIMO_Ant1_5180



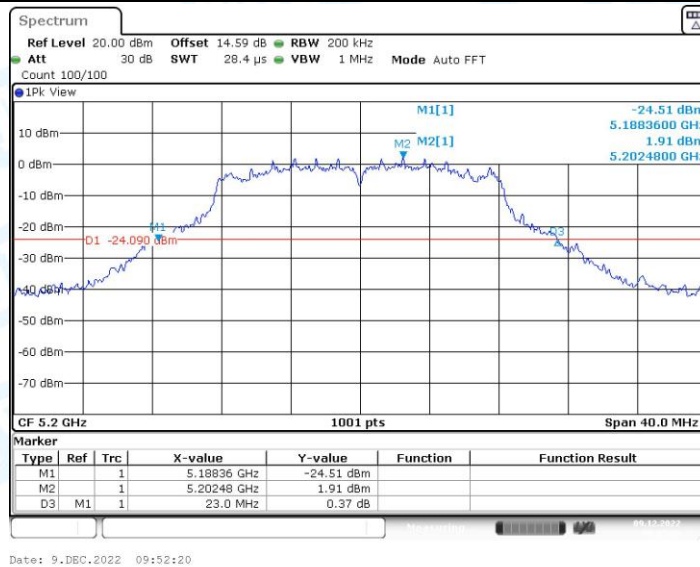
11N20MIMO_Ant2_5180



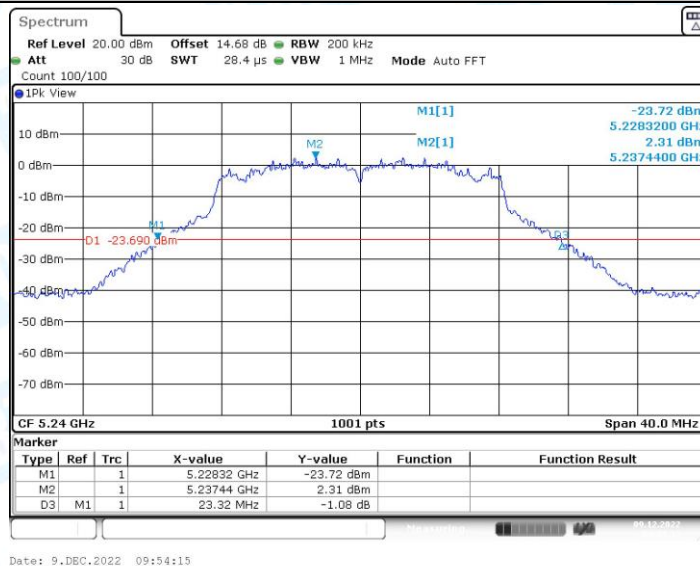
11N20MIMO_Ant1_5200



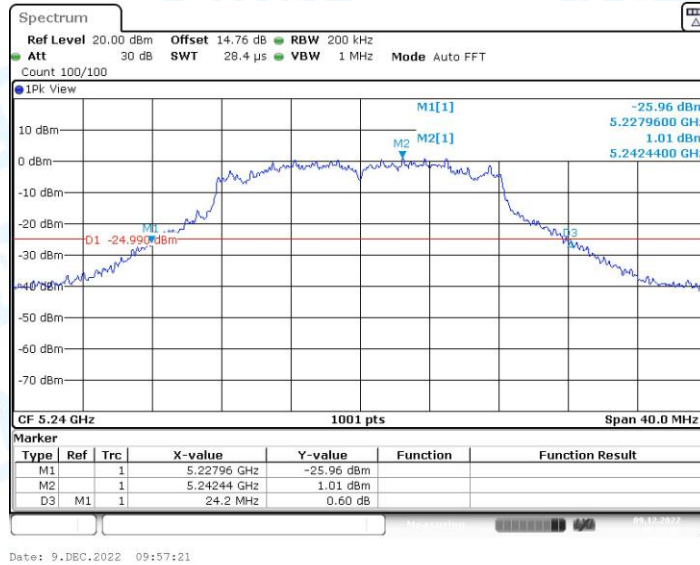
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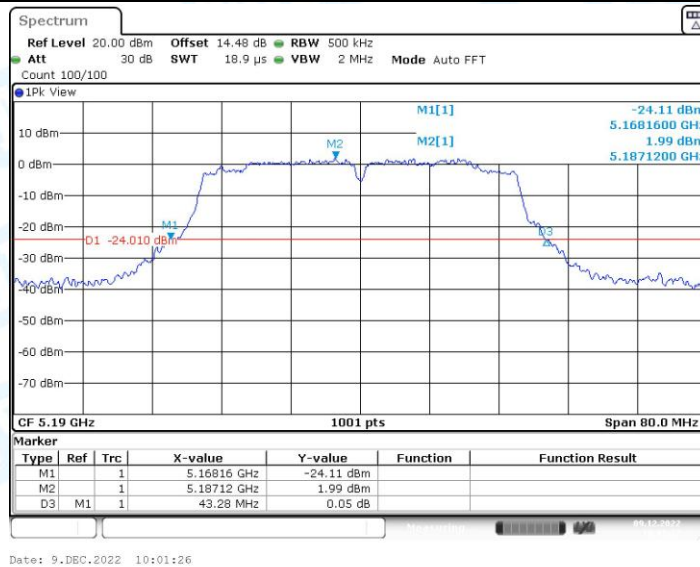
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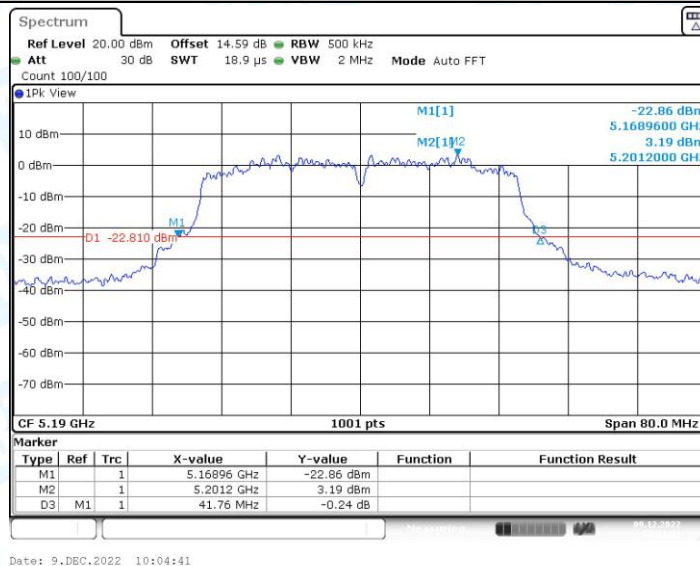
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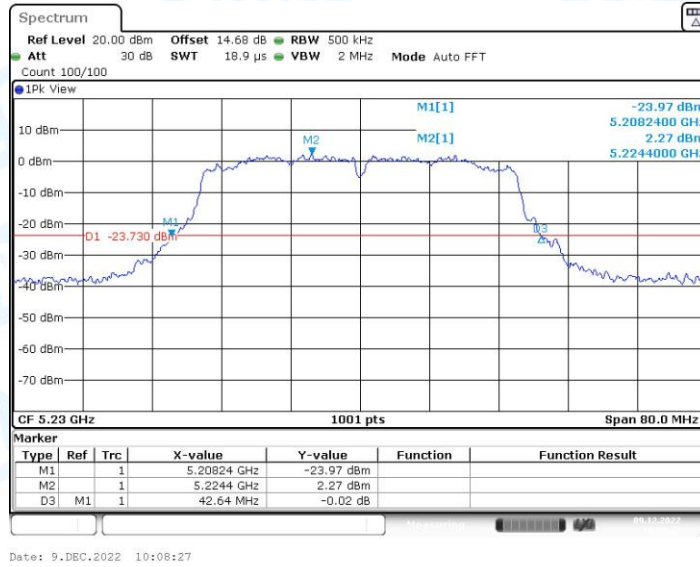
11N40MIMO_Ant1_5190



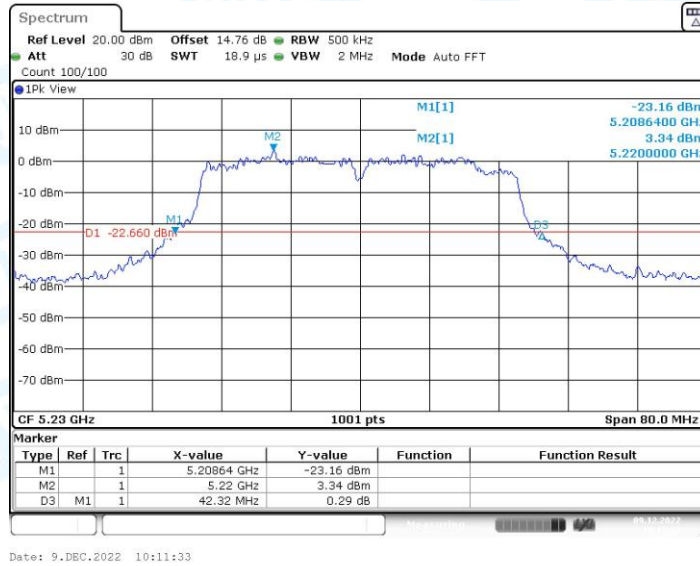
11N40MIMO_Ant2_5190



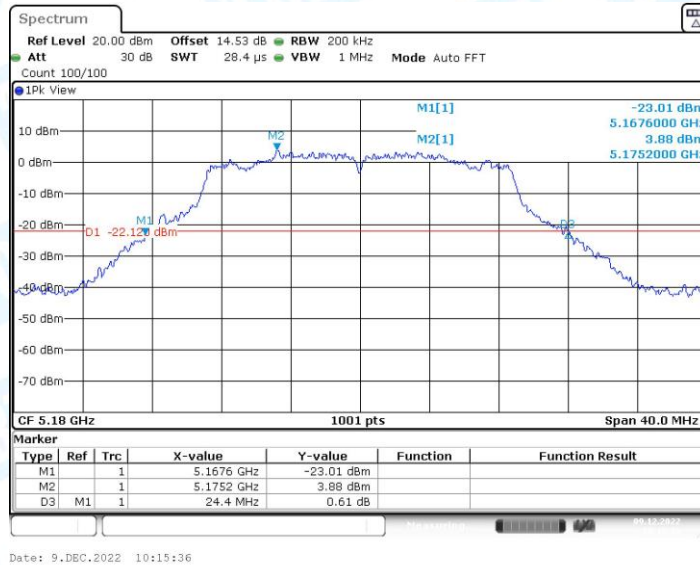
11N40MIMO_Ant1_5230



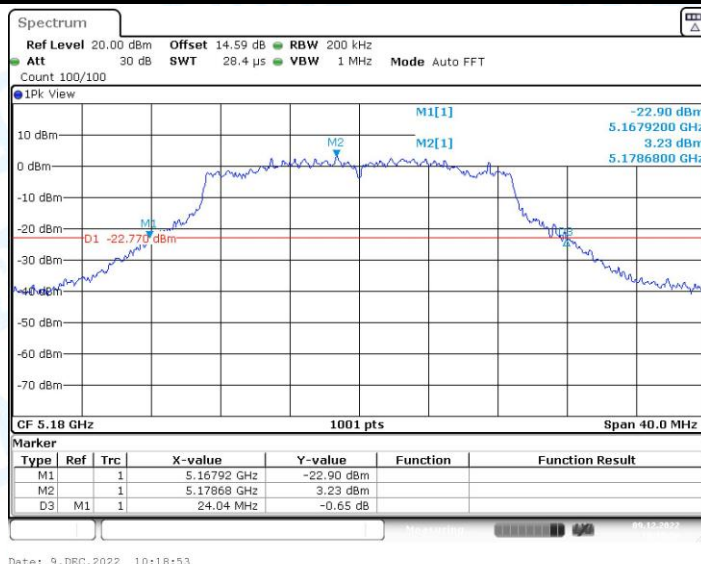
11N40MIMO_Ant2_5230



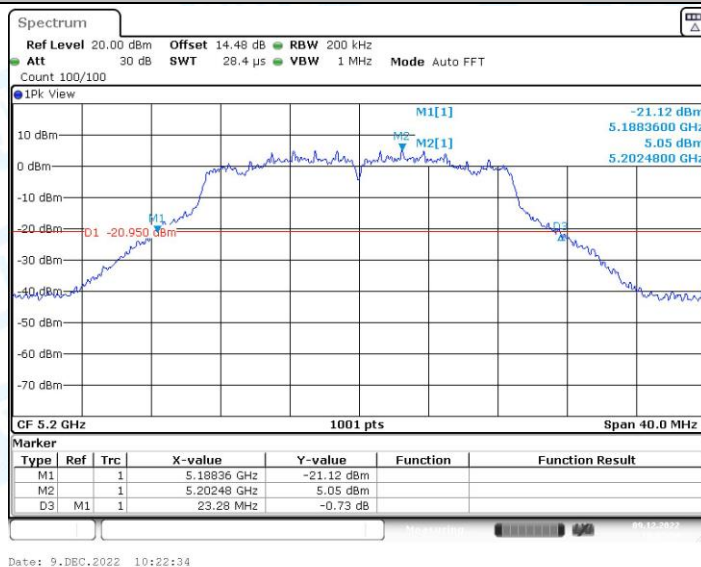
11AC20MIMO_Ant1_5180



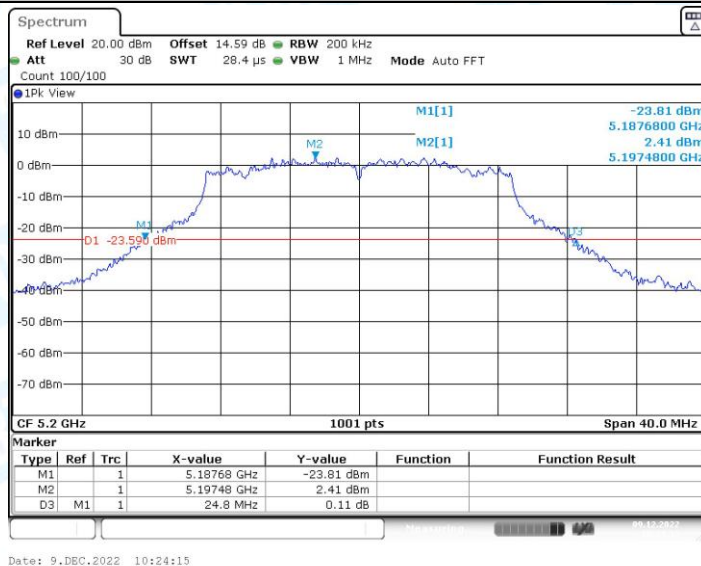
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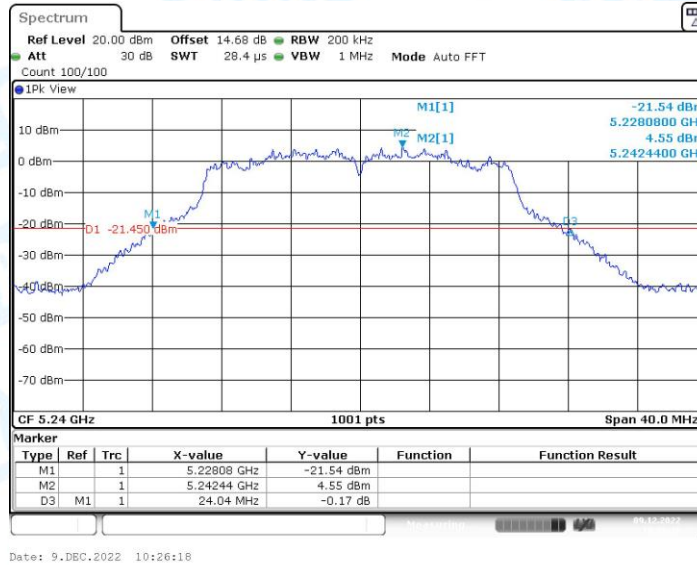
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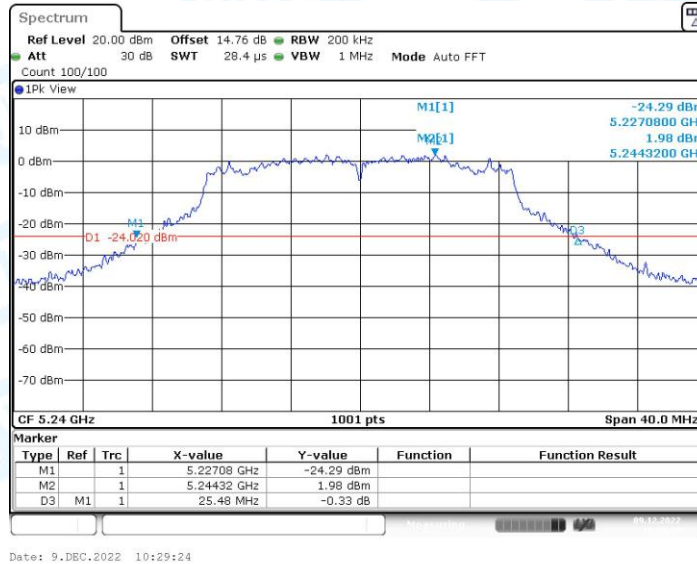
11AC20MIMO_Ant2_5200



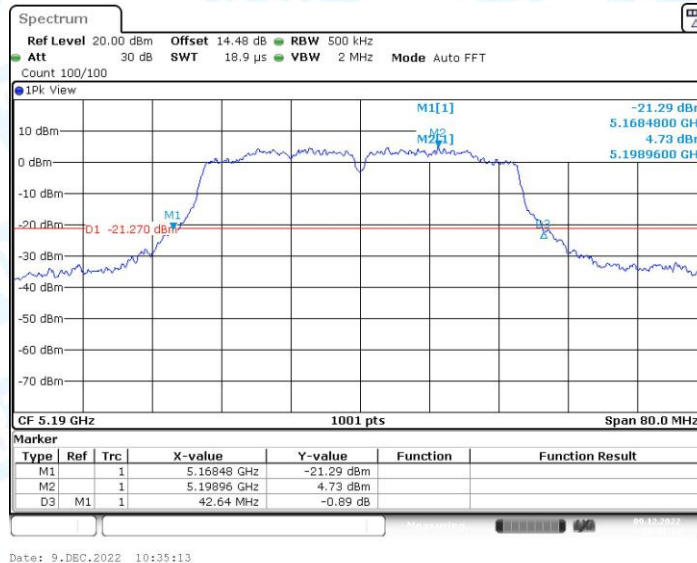
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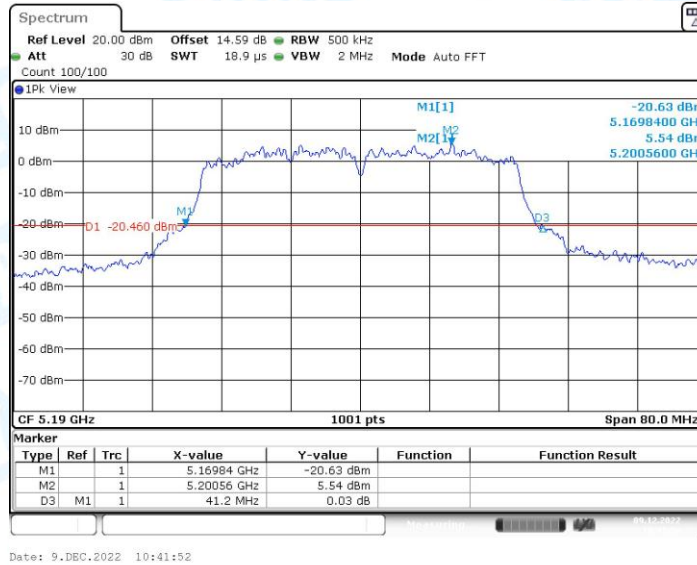
11AC20MIMO_Ant2_5240



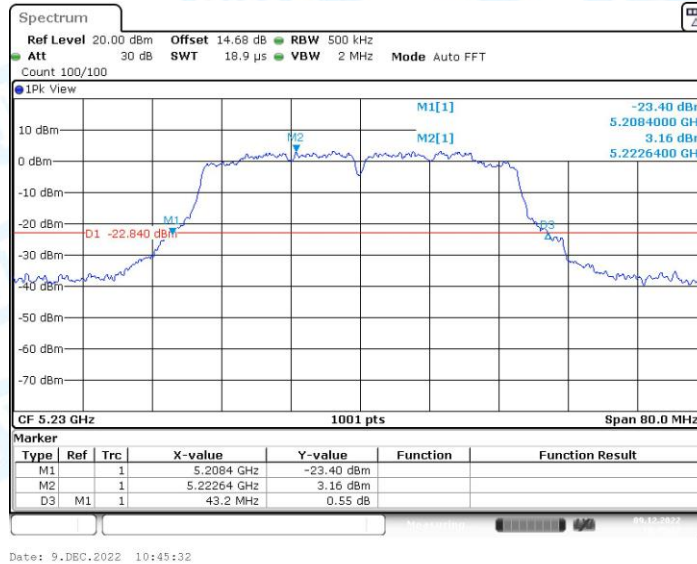
11AC40MIMO_Ant1_5190



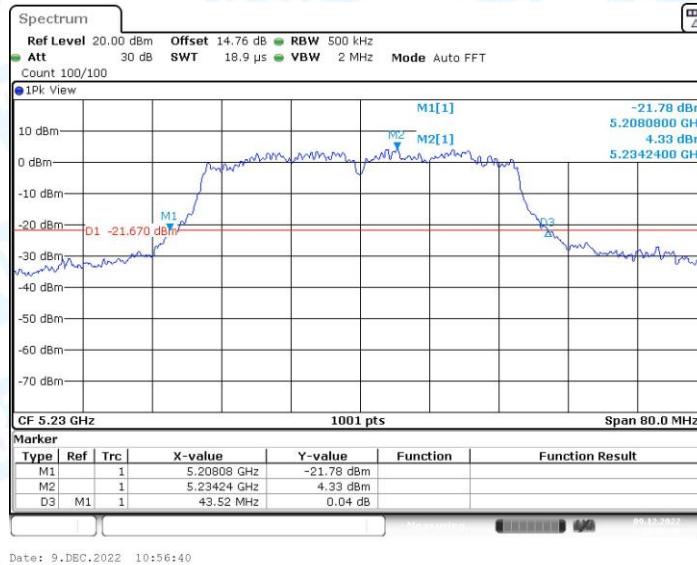
11AC40MIMO_Ant2_5190



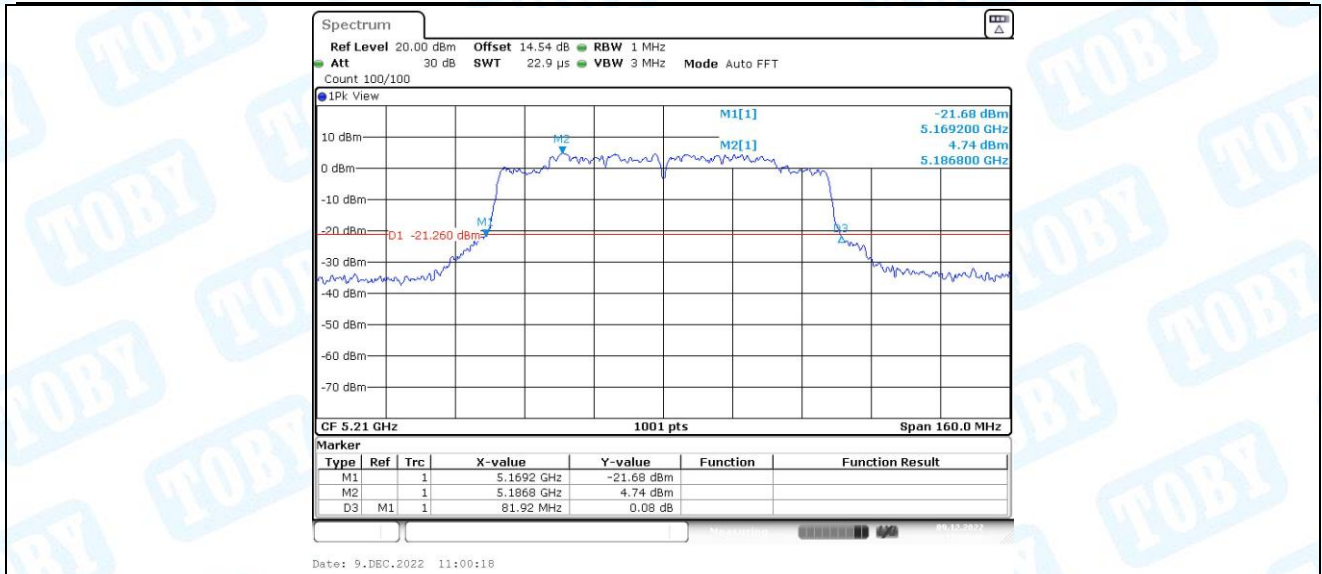
11AC40MIMO_Ant1_5230



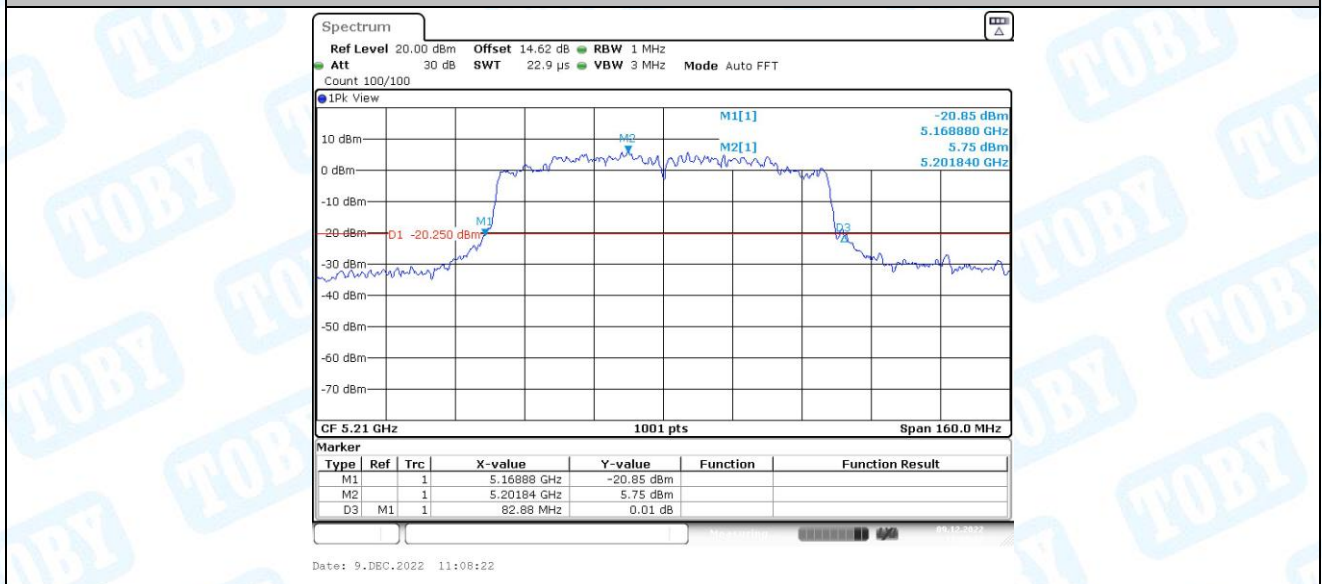
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



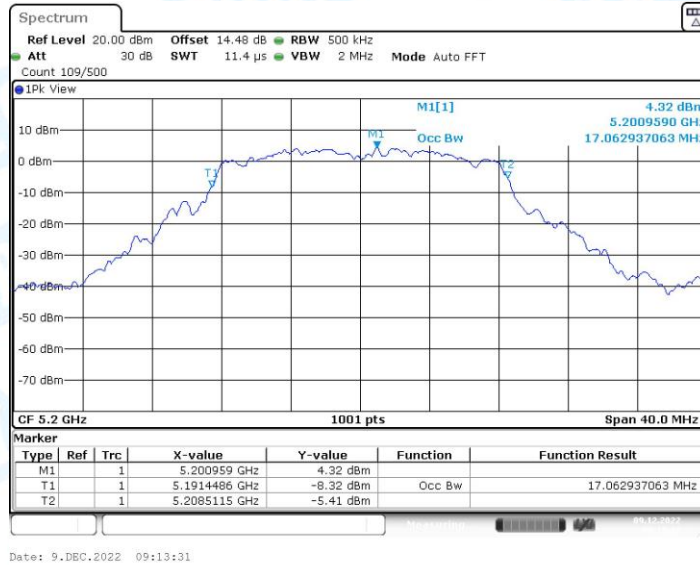
2. Occupied channel bandwidth

2.1. Test Result

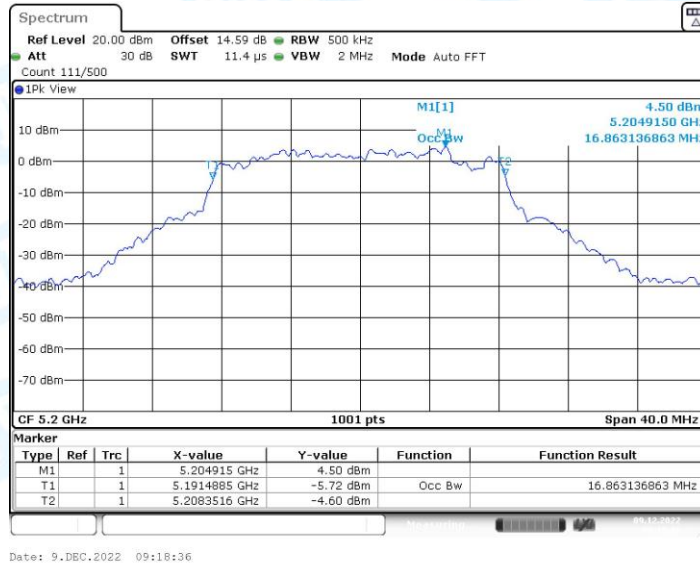
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	17.023	5171.2887	5188.3117	---	---
	Ant2	5180	16.983	5171.4486	5188.4316	---	---
	Ant1	5200	17.063	5191.4486	5208.5115	---	---
	Ant2	5200	16.863	5191.4885	5208.3516	---	---
	Ant1	5240	17.103	5231.4486	5248.5514	---	---
	Ant2	5240	17.383	5231.4086	5248.7912	---	---
11N20MIMO	Ant1	5180	16.903	5171.5285	5188.4316	---	---
	Ant2	5180	16.623	5171.6484	5188.2717	---	---
	Ant1	5200	16.983	5191.3686	5208.3516	---	---
	Ant2	5200	16.823	5191.4486	5208.2717	---	---
	Ant1	5240	16.703	5231.6084	5248.3117	---	---
	Ant2	5240	16.943	5231.5285	5248.4715	---	---
11N40MIMO	Ant1	5190	36.284	5171.6983	5207.9820	---	---
	Ant2	5190	36.124	5171.8581	5207.9820	---	---
	Ant1	5230	36.124	5211.8581	5247.9820	---	---
	Ant2	5230	36.603	5211.6983	5248.3017	---	---
11AC20MIMO	Ant1	5180	18.142	5170.9291	5189.0709	---	---
	Ant2	5180	17.862	5171.0490	5188.9111	---	---
	Ant1	5200	17.942	5191.0490	5208.9910	---	---
	Ant2	5200	18.062	5190.9690	5209.0310	---	---
	Ant1	5240	17.942	5231.0090	5248.9510	---	---
	Ant2	5240	17.862	5231.0490	5248.9111	---	---
11AC40MIMO	Ant1	5190	36.204	5171.7782	5207.9820	---	---
	Ant2	5190	36.044	5172.0180	5208.0619	---	---
	Ant1	5230	36.284	5211.8581	5248.1419	---	---
	Ant2	5230	36.364	5211.7782	5248.1419	---	---
11AC80MIMO	Ant1	5210	75.445	5172.2777	5247.7223	---	---
	Ant2	5210	75.125	5172.4376	5247.5624	---	---

2.2. Test Graphs

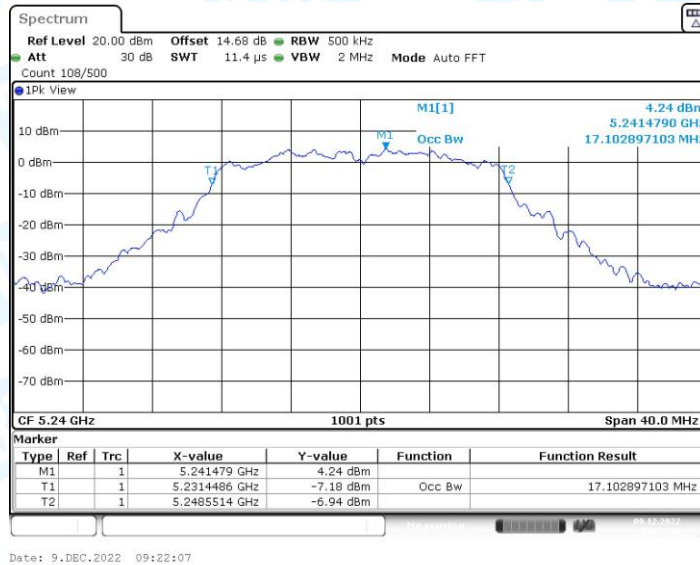




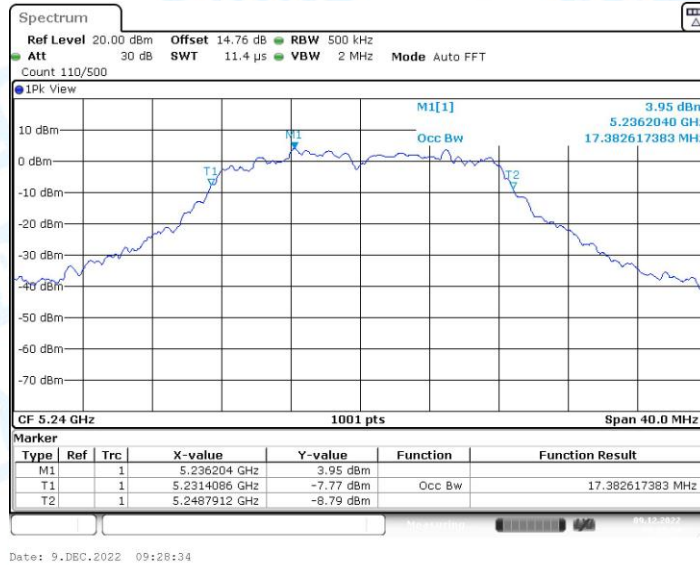
11A-CDD_Ant2_5200



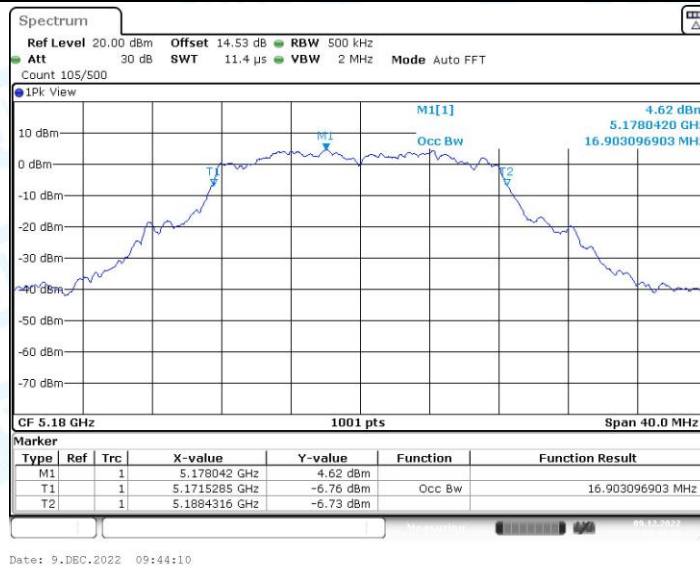
11A-CDD_Ant1_5240



11A-CDD_Ant2_5240



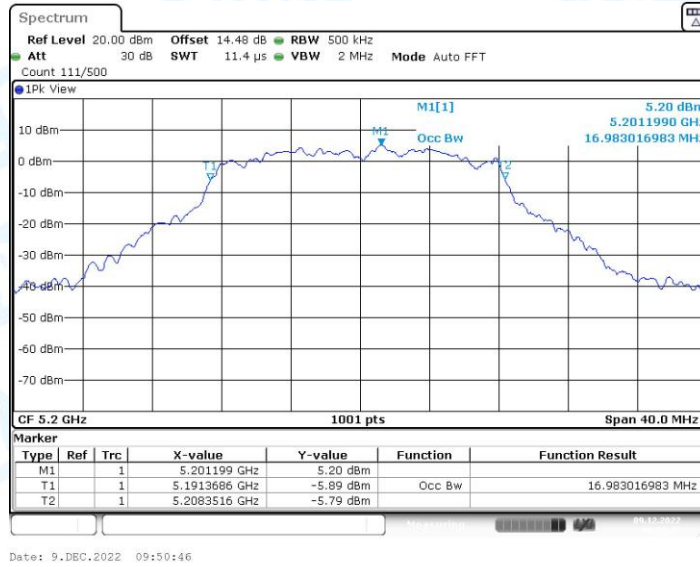
11N20MIMO_Ant1_5180



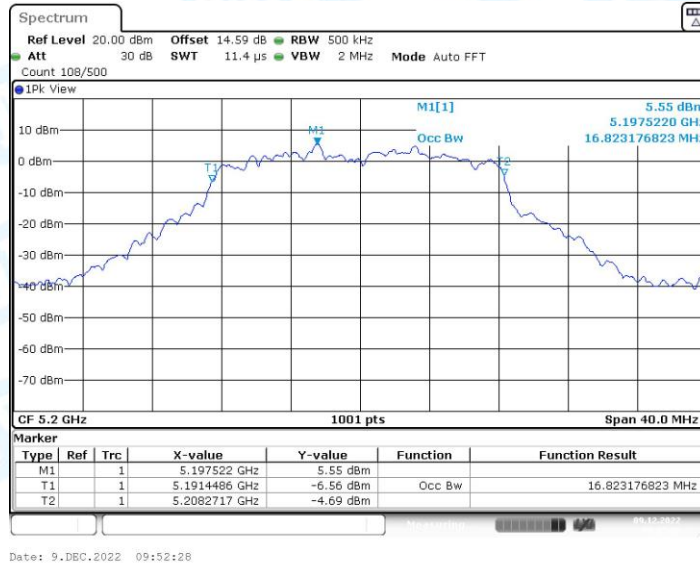
11N20MIMO_Ant2_5180



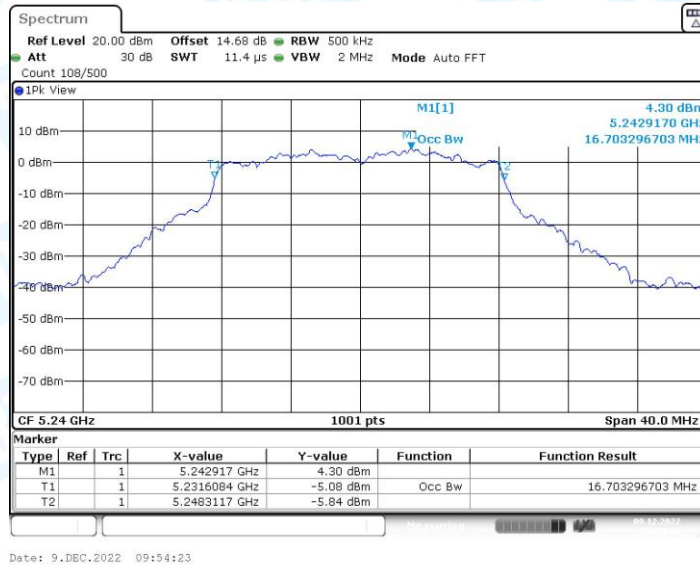
11N20MIMO_Ant1_5200



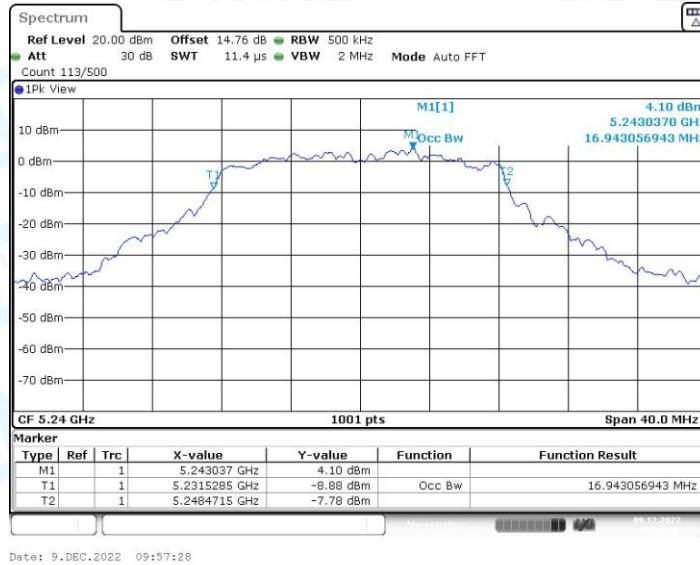
11N20MIMO_Ant2_5200



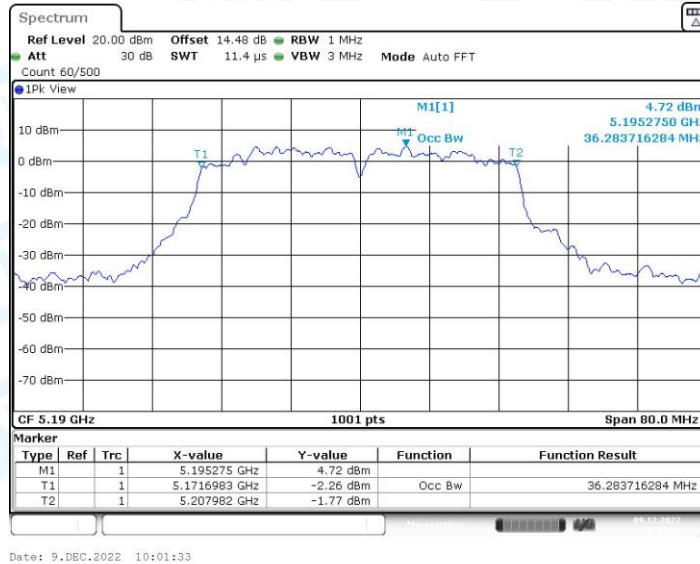
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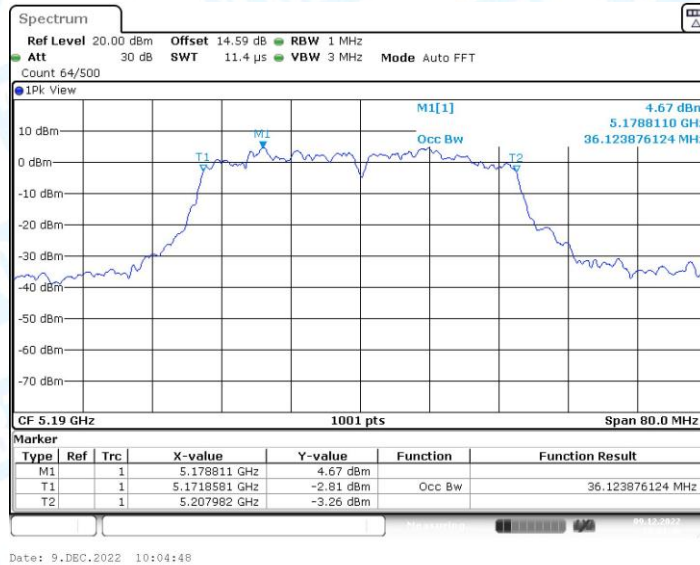
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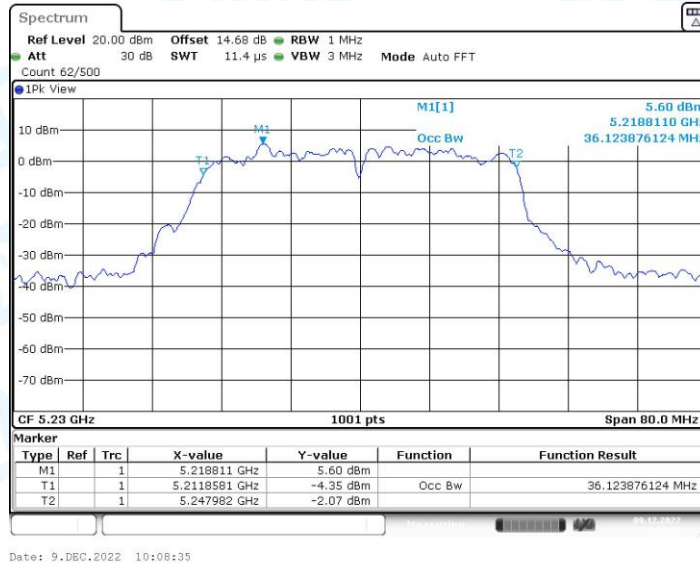
11N40MIMO_Ant1_5190



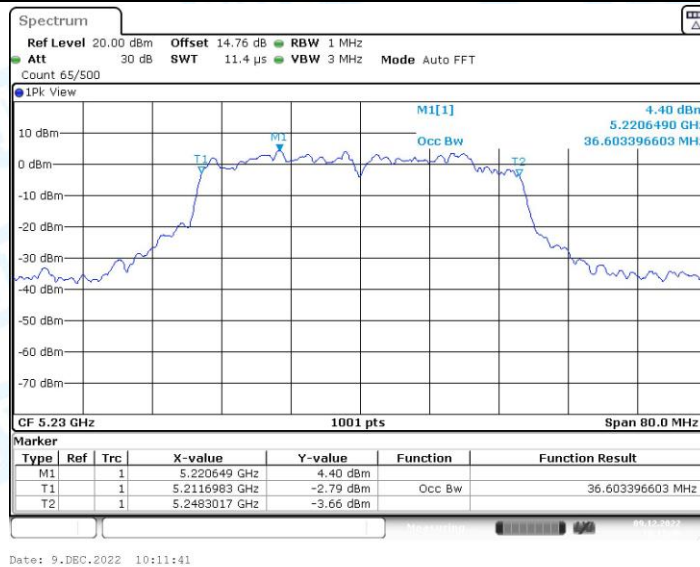
11N40MIMO_Ant2_5190



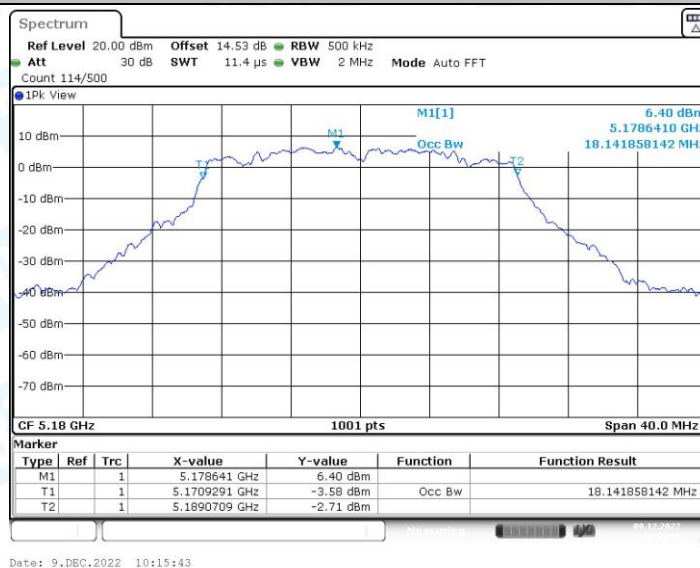
11N40MIMO_Ant1_5230



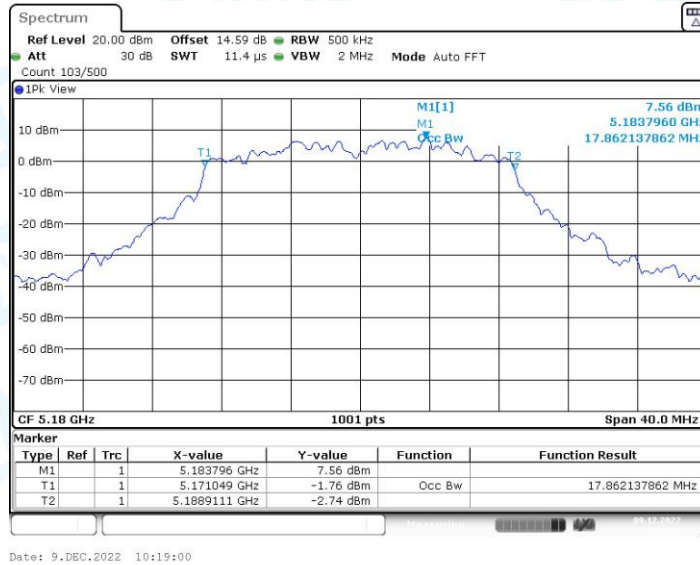
11N40MIMO_Ant2_5230



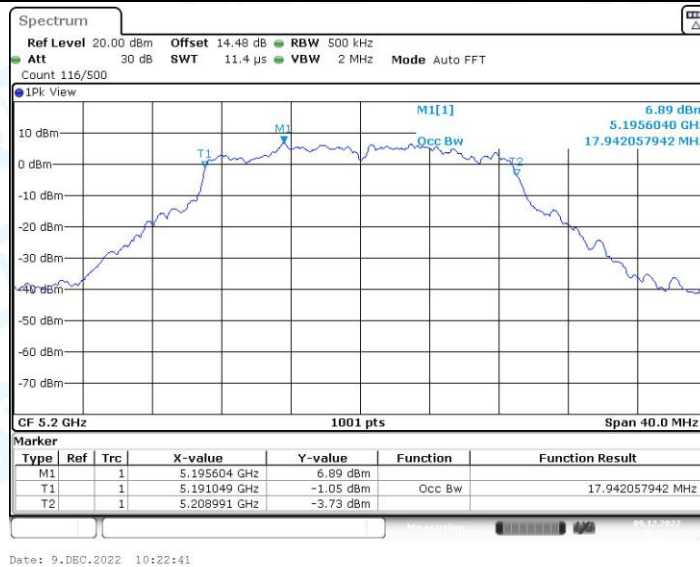
11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5200



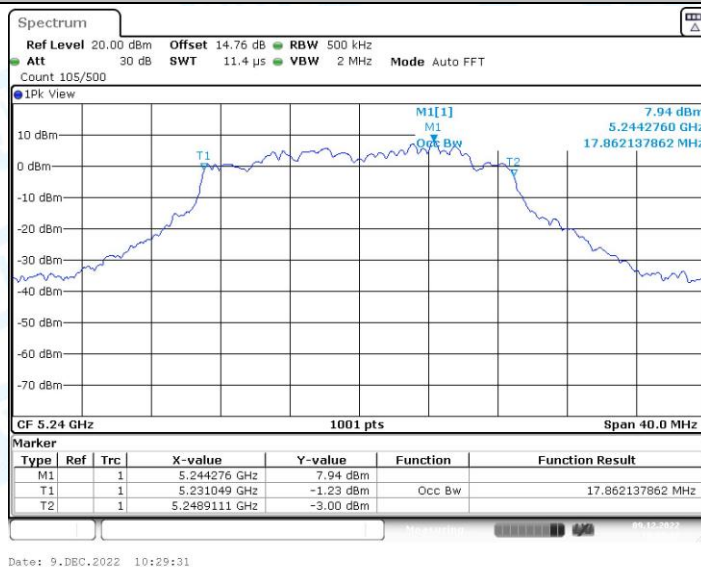
11AC20MIMO_Ant2_5200



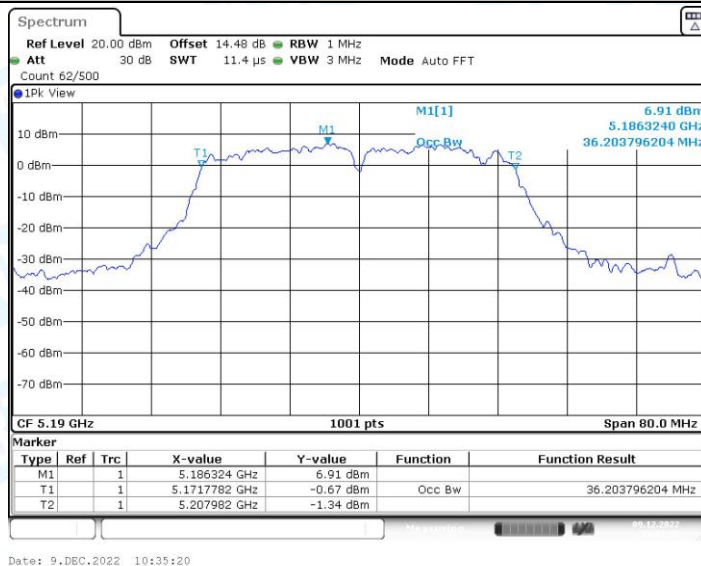
11AC20MIMO_Ant1_5240



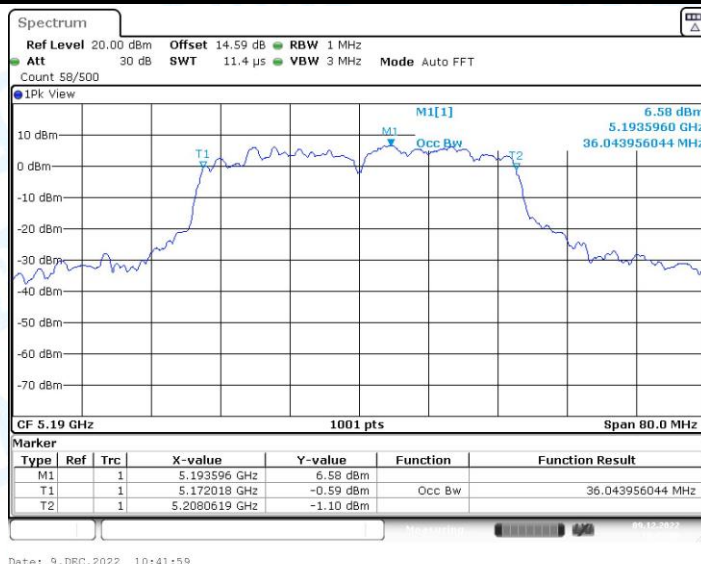
11AC20MIMO_Ant2_5240



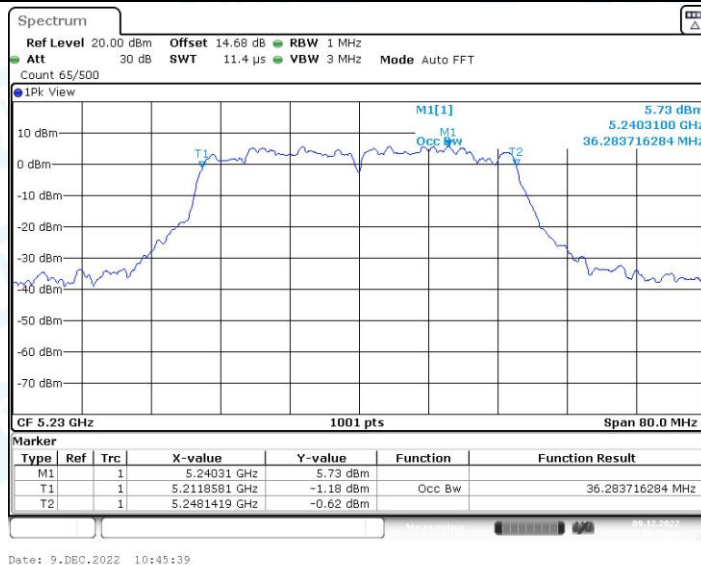
11AC40MIMO_Ant1_5190



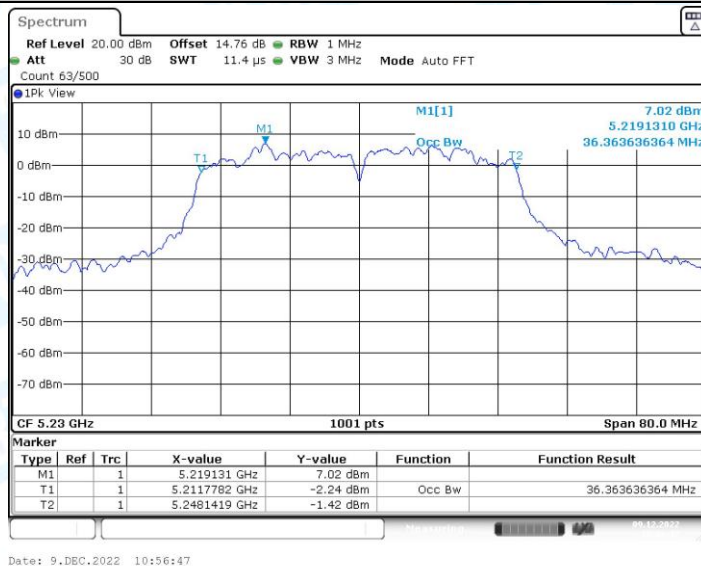
11AC40MIMO_Ant2_5190



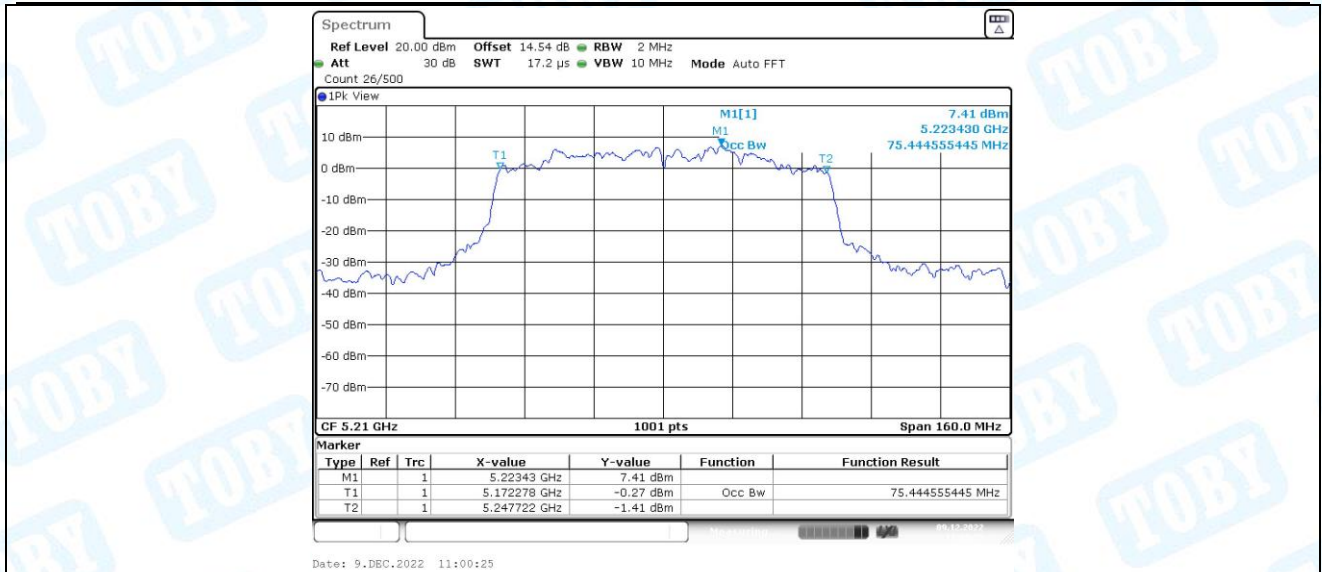
11AC40MIMO_Ant1_5230



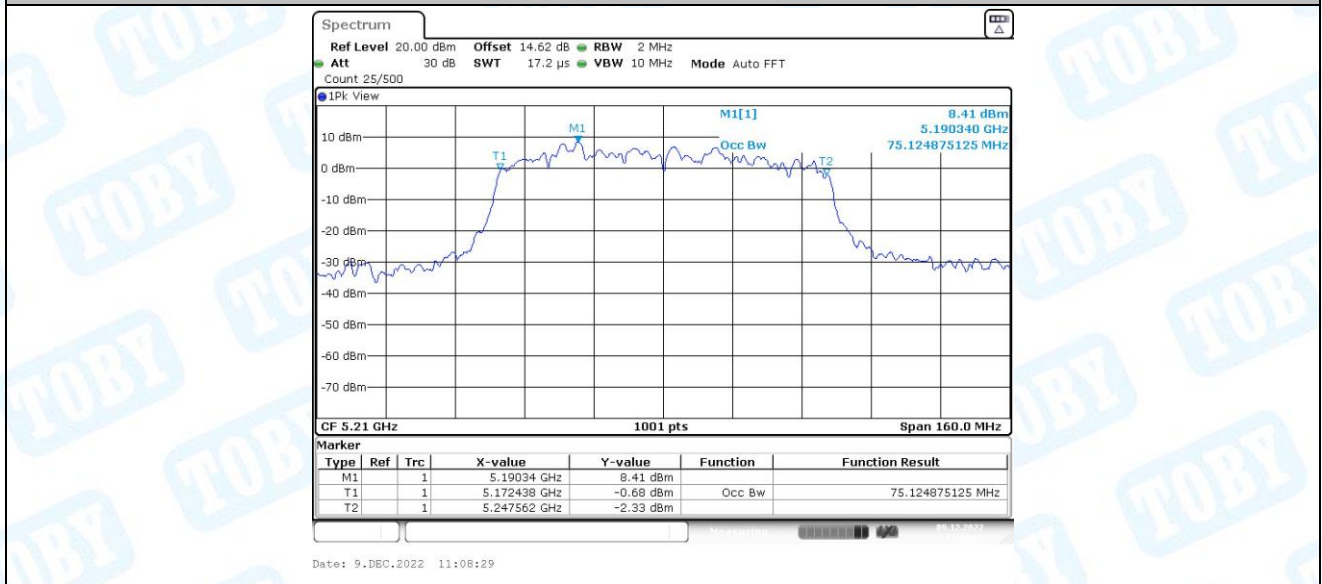
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



4. Maximum conducted output power

4.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A-CDD	Ant1	5180	4.87	≤23.98	PASS
	Ant2	5180	3.88	≤23.98	PASS
	total	5180	7.41	≤23.97	PASS
	Ant1	5200	4.90	≤23.98	PASS
	Ant2	5200	3.87	≤23.98	PASS
	total	5200	7.43	≤23.97	PASS
	Ant1	5240	4.70	≤23.98	PASS
	Ant2	5240	3.68	≤23.98	PASS
	total	5240	7.23	≤23.97	PASS
11N20MIMO	Ant1	5180	4.87	≤23.98	PASS
	Ant2	5180	3.66	≤23.98	PASS
	total	5180	7.32	≤23.97	PASS
	Ant1	5200	4.72	≤23.98	PASS
	Ant2	5200	3.81	≤23.98	PASS
	total	5200	7.30	≤23.97	PASS
	Ant1	5240	4.56	≤23.98	PASS
	Ant2	5240	3.78	≤23.98	PASS
	total	5240	7.20	≤23.97	PASS
11N40MIMO	Ant1	5190	5.51	≤23.98	PASS
	Ant2	5190	4.56	≤23.98	PASS
	total	5190	8.07	≤23.97	PASS
	Ant1	5230	5.34	≤23.98	PASS
	Ant2	5230	4.47	≤23.98	PASS
	total	5230	7.94	≤23.97	PASS
11AC20MIMO	Ant1	5180	4.86	≤23.98	PASS
	Ant2	5180	3.70	≤23.98	PASS
	total	5180	7.33	≤23.97	PASS
	Ant1	5200	4.80	≤23.98	PASS
	Ant2	5200	3.78	≤23.98	PASS
	total	5200	7.33	≤23.97	PASS
	Ant1	5240	4.58	≤23.98	PASS
	Ant2	5240	3.67	≤23.98	PASS
	total	5240	7.16	≤23.97	PASS
11AC40MIMO	Ant1	5190	5.61	≤23.98	PASS
	Ant2	5190	4.44	≤23.98	PASS
	total	5190	8.07	≤23.97	PASS
	Ant1	5230	5.42	≤23.98	PASS
	Ant2	5230	4.55	≤23.98	PASS
	total	5230	8.02	≤23.97	PASS
11AC80MIMO	Ant1	5210	5.49	≤23.98	PASS

	Ant2	5210	4.60	≤23.98	PASS
	total	5210	8.08	≤23.97	PASS

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

5. Maximum power spectral density

5.1. Test Result

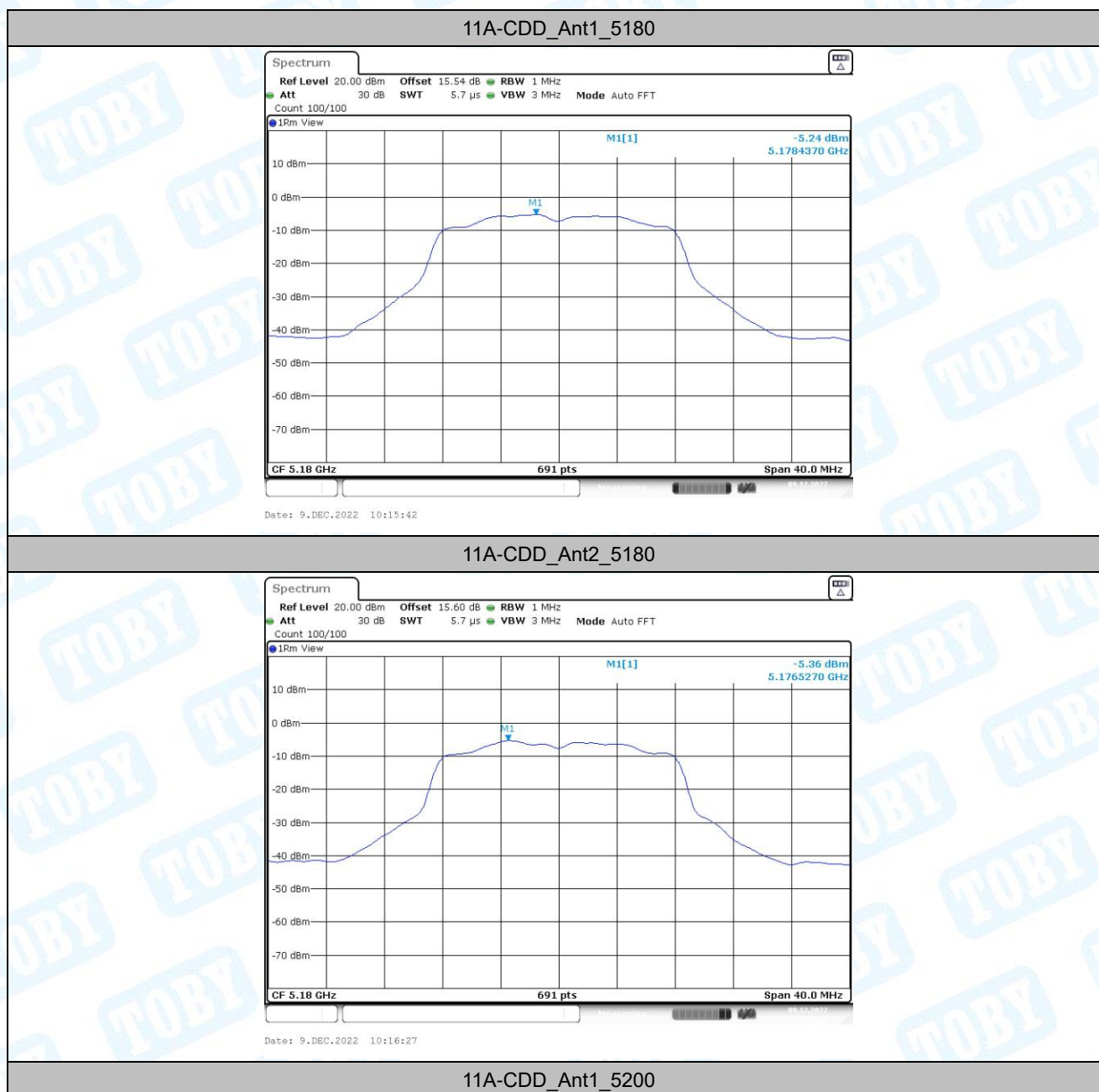
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-CDD	Ant1	5180	-5.24	≤11.00	PASS
	Ant2	5180	-5.36	≤11.00	PASS
	total	5180	-2.29	≤10.99	PASS
	Ant1	5200	-5.66	≤11.00	PASS
	Ant2	5200	-5.6	≤11.00	PASS
	total	5200	-2.62	≤10.99	PASS
	Ant1	5240	-5.89	≤11.00	PASS
	Ant2	5240	-6.24	≤11.00	PASS
	total	5240	-3.05	≤10.99	PASS
11N20MIMO	Ant1	5180	-5.77	≤11.00	PASS
	Ant2	5180	-6.02	≤11.00	PASS
	total	5180	-2.88	≤10.99	PASS
	Ant1	5200	-5.97	≤11.00	PASS
	Ant2	5200	-5.64	≤11.00	PASS
	total	5200	-2.79	≤10.99	PASS
	Ant1	5240	-6.15	≤11.00	PASS
	Ant2	5240	-6.79	≤11.00	PASS
	total	5240	-3.45	≤10.99	PASS
11N40MIMO	Ant1	5190	-8.59	≤11.00	PASS
	Ant2	5190	-8.43	≤11.00	PASS
	total	5190	-5.50	≤10.99	PASS
	Ant1	5230	-8.15	≤11.00	PASS
	Ant2	5230	-9.08	≤11.00	PASS
	total	5230	-5.58	≤10.99	PASS
11AC20MIMO	Ant1	5180	-5.63	≤11.00	PASS
	Ant2	5180	-6.31	≤11.00	PASS
	total	5180	-2.95	≤10.99	PASS
	Ant1	5200	-5.75	≤11.00	PASS
	Ant2	5200	-6.22	≤11.00	PASS
	total	5200	-2.97	≤10.99	PASS
	Ant1	5240	-6.46	≤11.00	PASS
	Ant2	5240	-7.04	≤11.00	PASS
	total	5240	-3.73	≤10.99	PASS
11AC40MIMO	Ant1	5190	-8.41	≤11.00	PASS
	Ant2	5190	-8.39	≤11.00	PASS
	total	5190	-5.39	≤10.99	PASS
	Ant1	5230	-8.75	≤11.00	PASS
	Ant2	5230	-8.89	≤11.00	PASS
	total	5230	-5.81	≤10.99	PASS
11AC80MIMO	Ant1	5210	-11.4	≤11.00	PASS

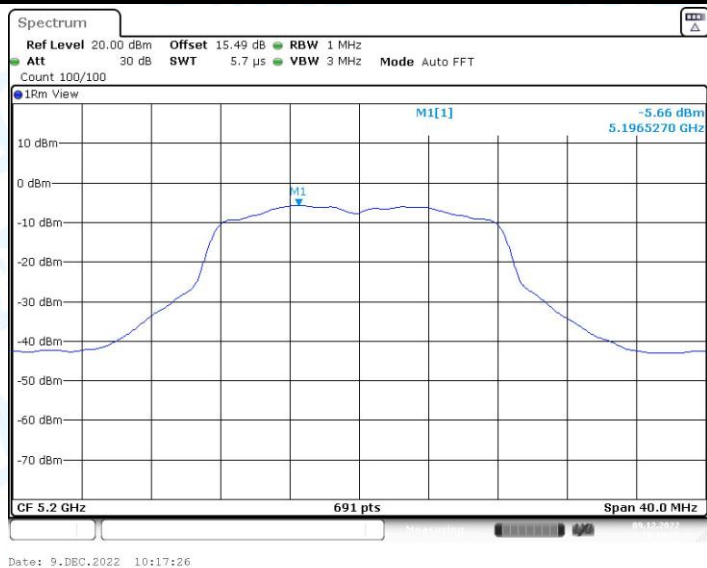
	Ant2	5210	-11.34	≤11.00	PASS
	total	5210	-8.36	≤10.99	PASS

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

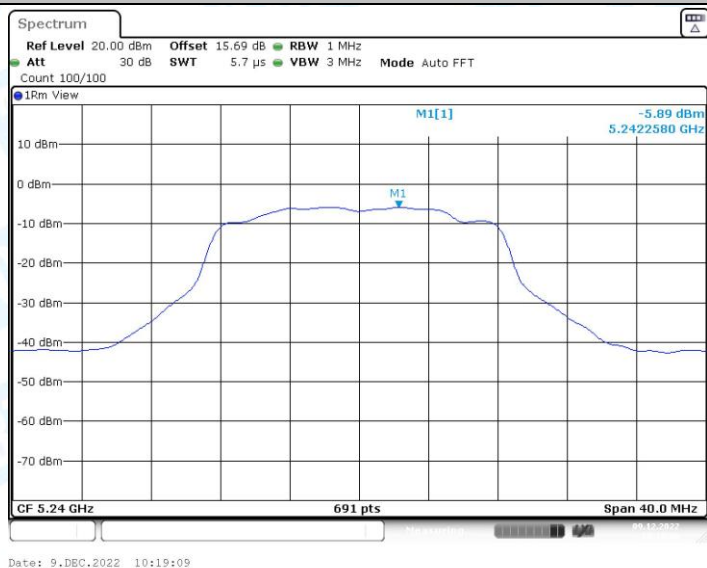




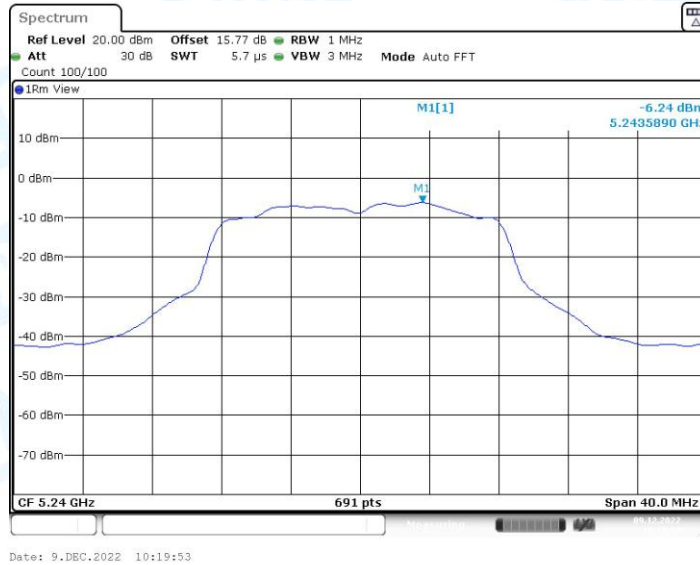
11A-CDD_Ant2_5200



11A-CDD_Ant1_5240



11A-CDD_Ant2_5240



11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240