

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

General Description of EUT	
Product Name:	AI>Note
Test Model:	S6
Sample ID:	HC-C-202311-0266-02-01-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.8V
Test Engineer:	Zhou Zhen
Note: For a more detailed features description, please refer to the report TBR-C-202311-0266-33	

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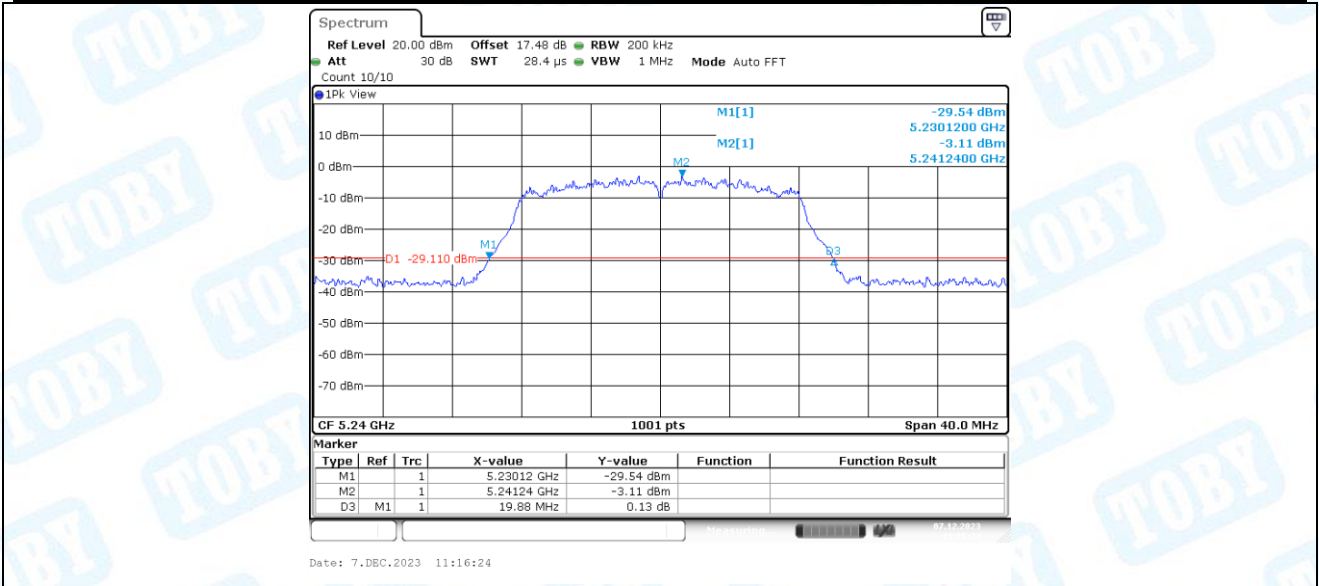
1. Emission Bandwidth

1.1. Test Result

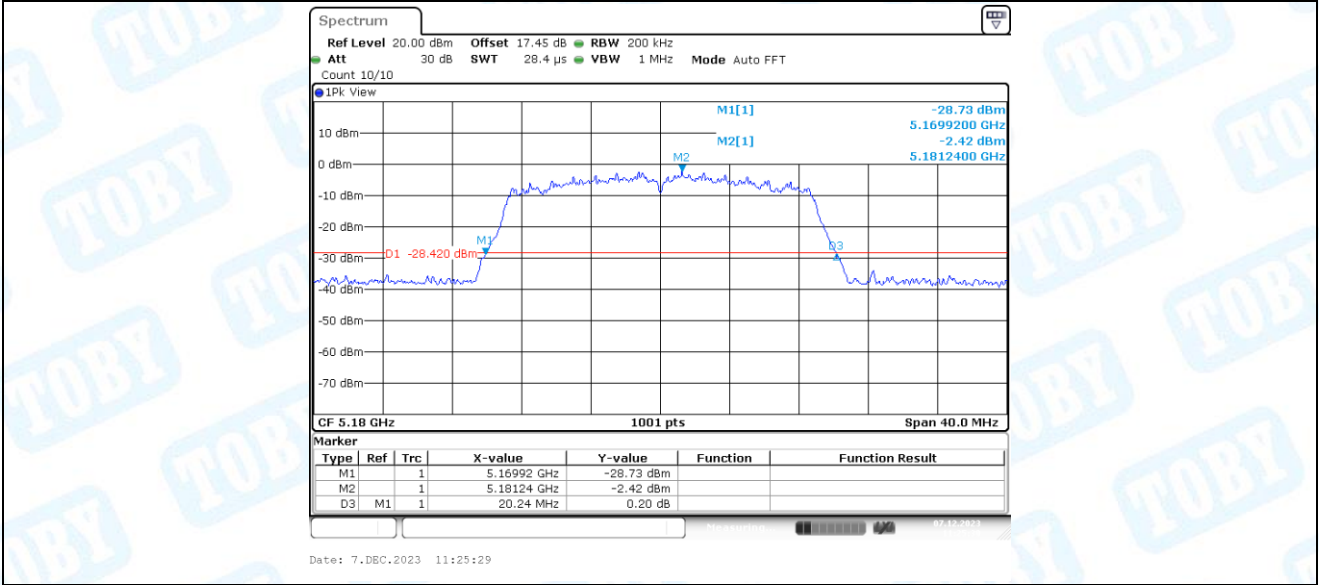
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.00	5170.00	5190.00	---	---
		5200	19.76	5190.16	5209.92	---	---
		5240	19.88	5230.12	5250.00	---	---
11N20SISO	Ant1	5180	20.24	5169.92	5190.16	---	---
		5200	20.12	5189.88	5210.00	---	---
		5240	20.12	5230.00	5250.12	---	---
11N40SISO	Ant1	5190	41.52	5169.12	5210.64	---	---
		5230	40.40	5209.76	5250.16	---	---
11AC20SISO	Ant1	5180	20.16	5169.88	5190.04	---	---
		5200	20.24	5189.92	5210.16	---	---
		5240	20.08	5229.96	5250.04	---	---
11AC40SISO	Ant1	5190	40.96	5169.76	5210.72	---	---
		5230	41.12	5209.36	5250.48	---	---

1.2. Test Graphs

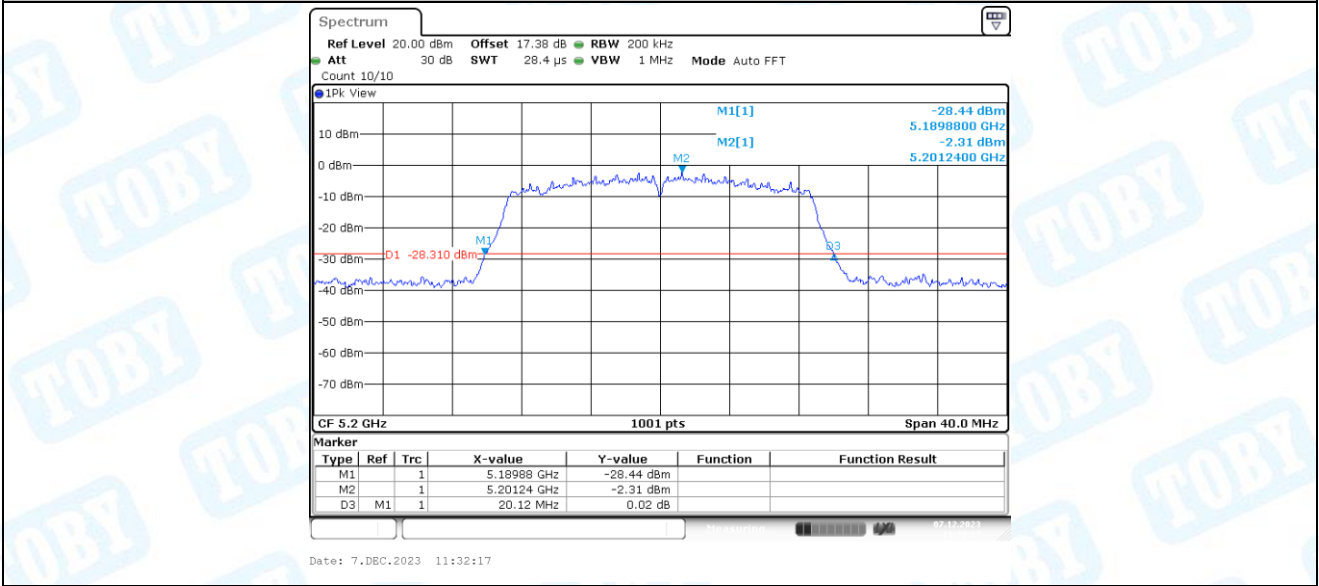




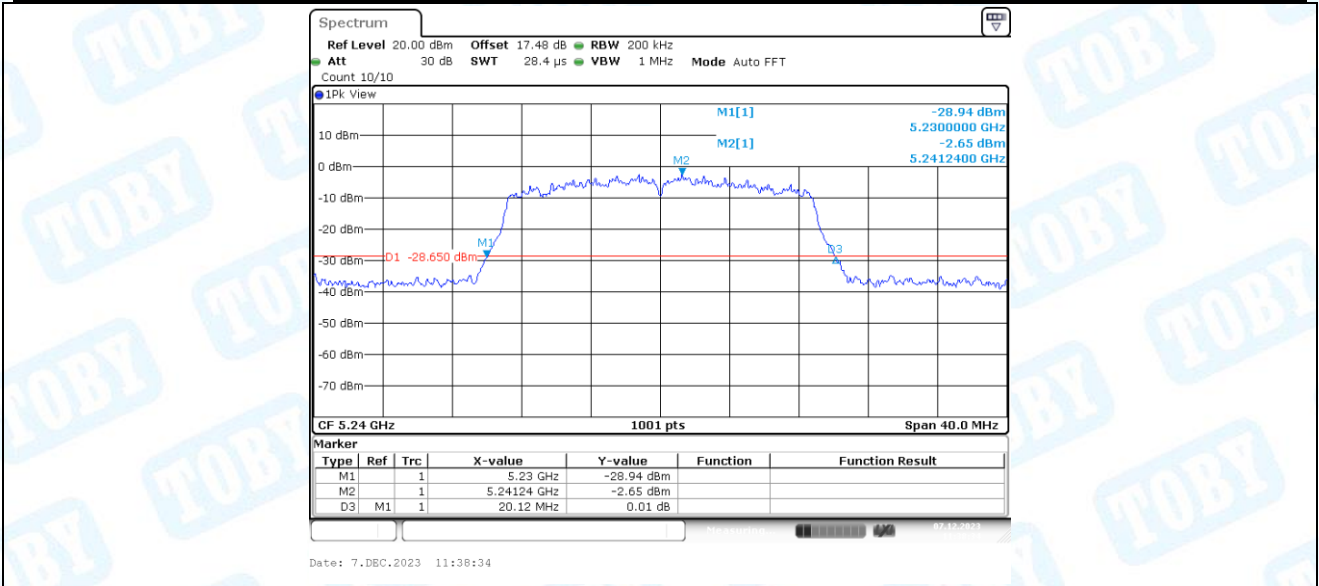
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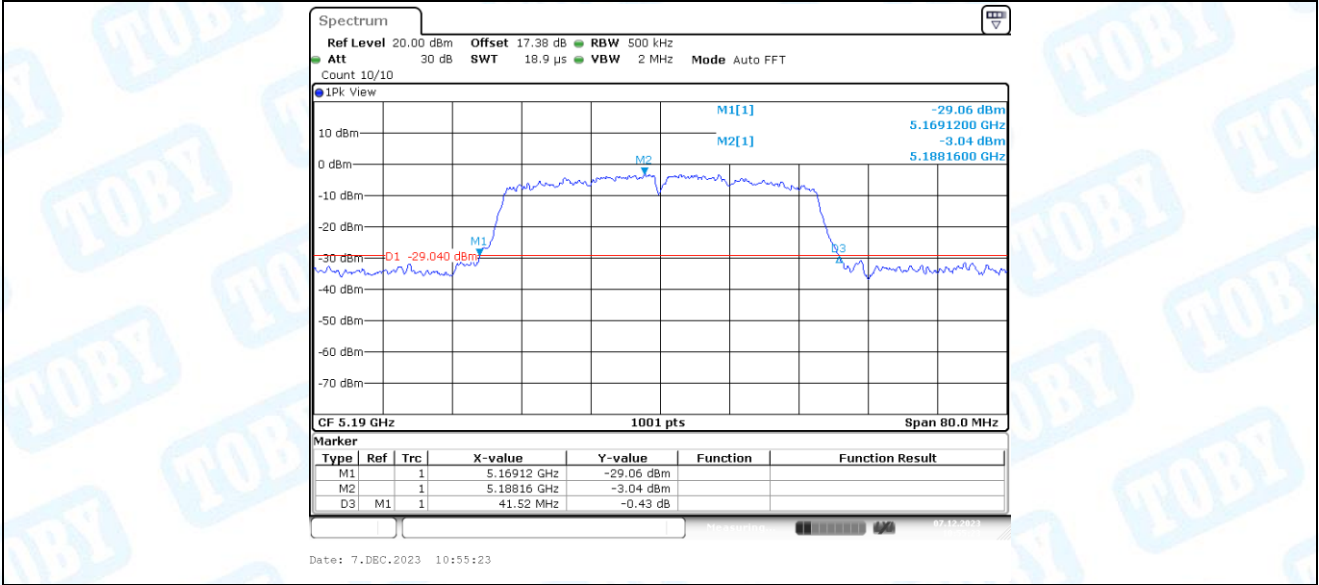
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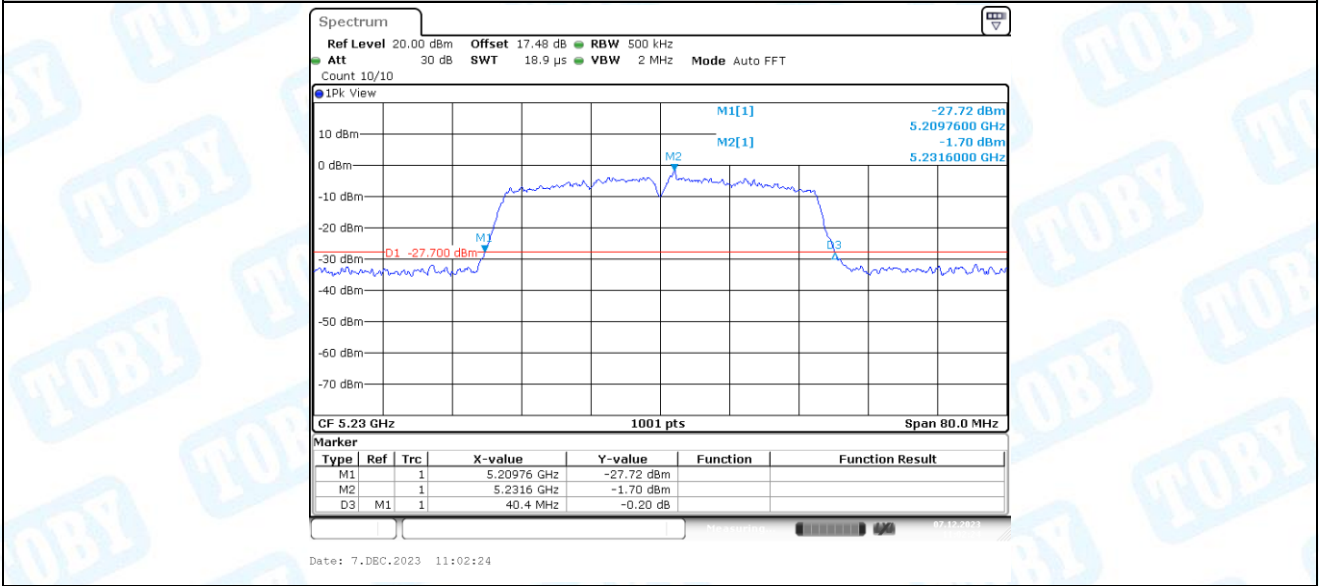
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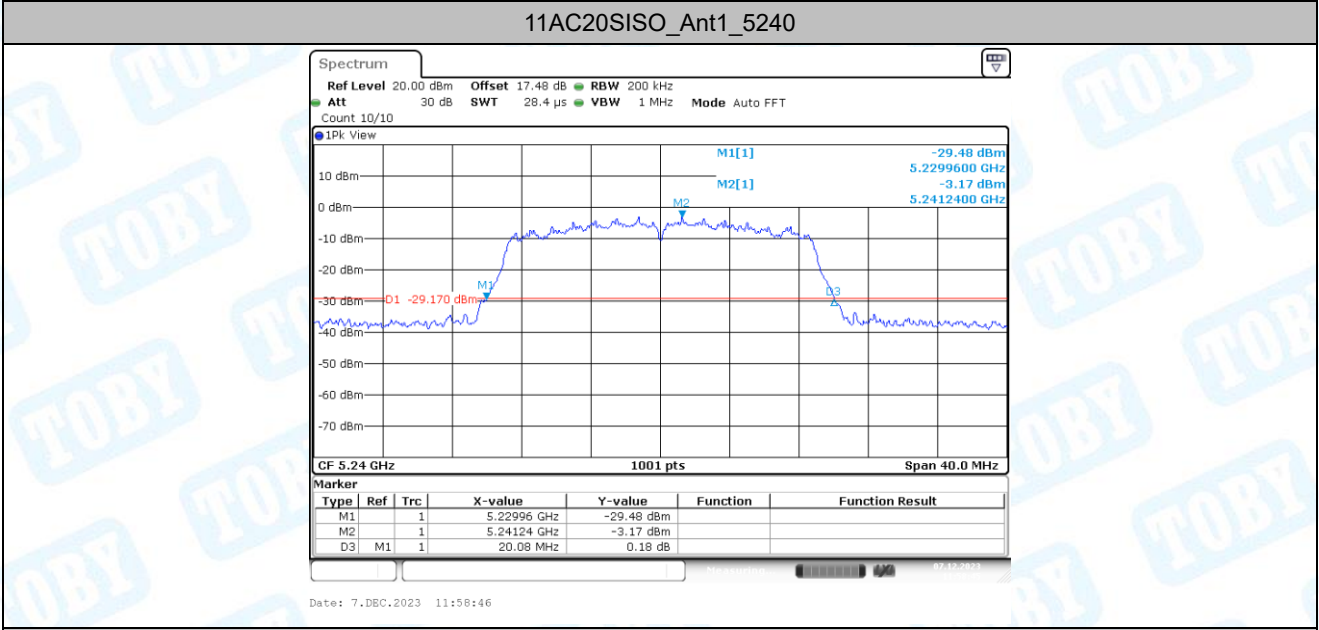
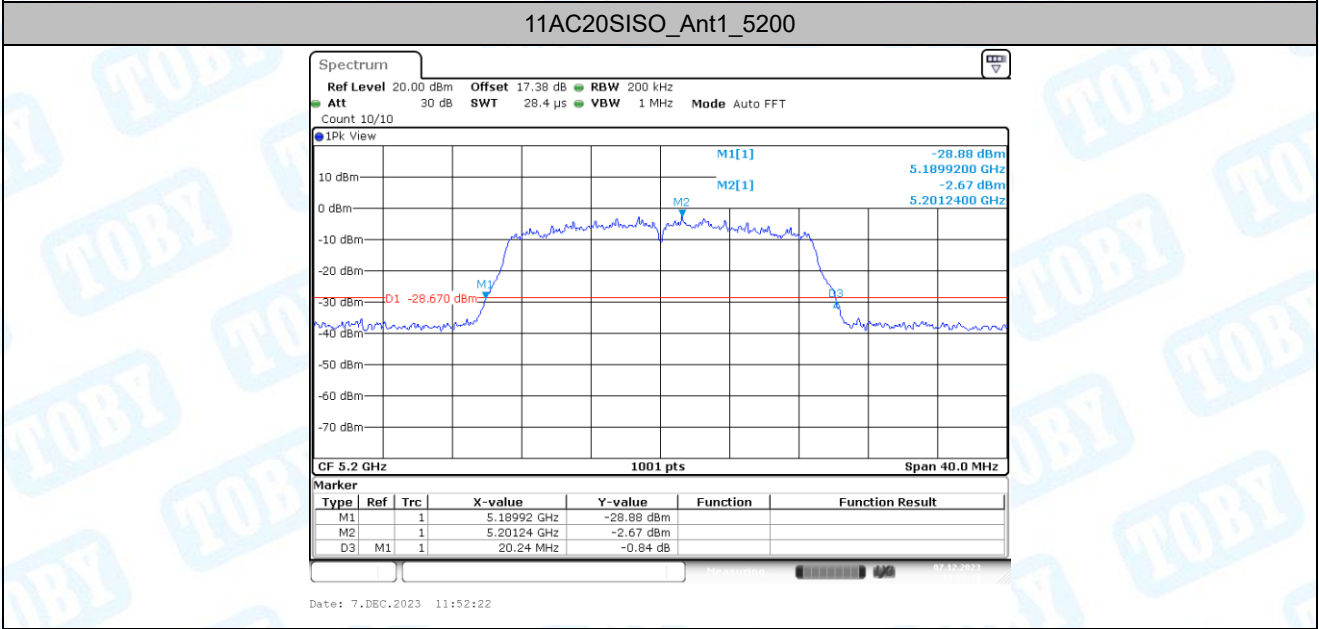
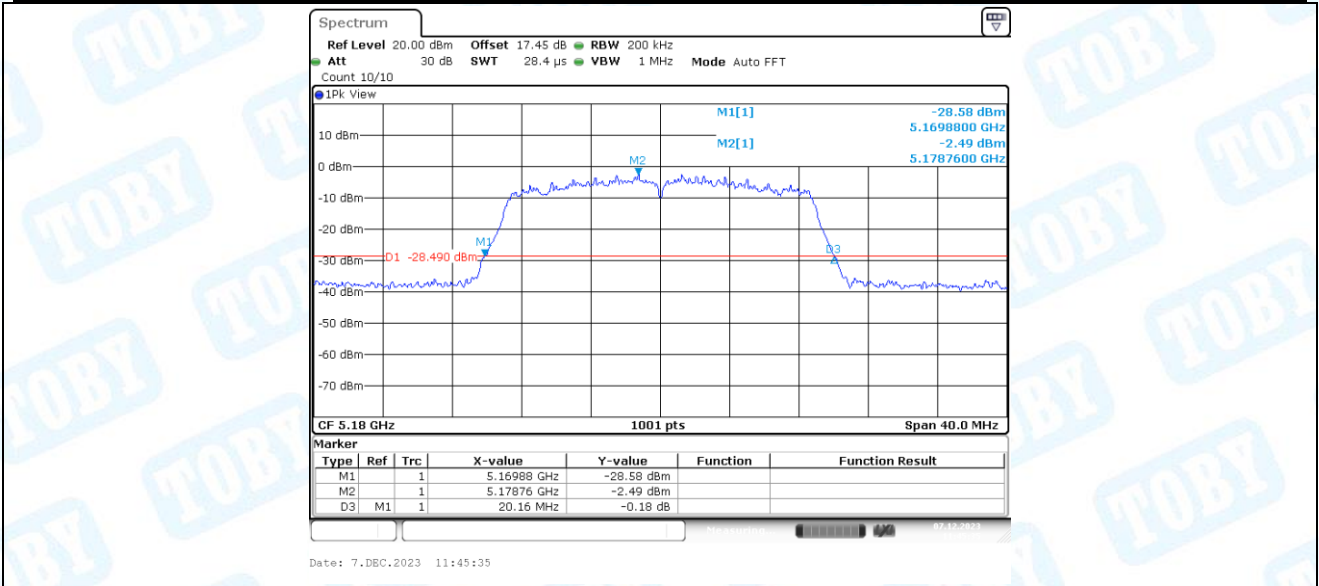
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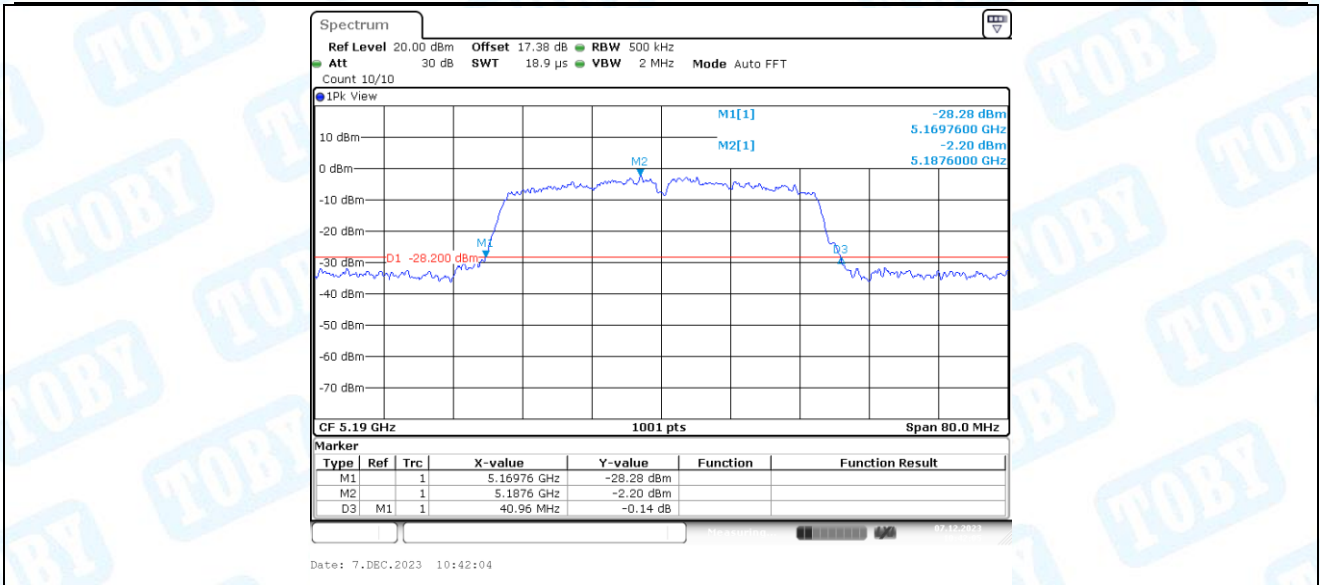


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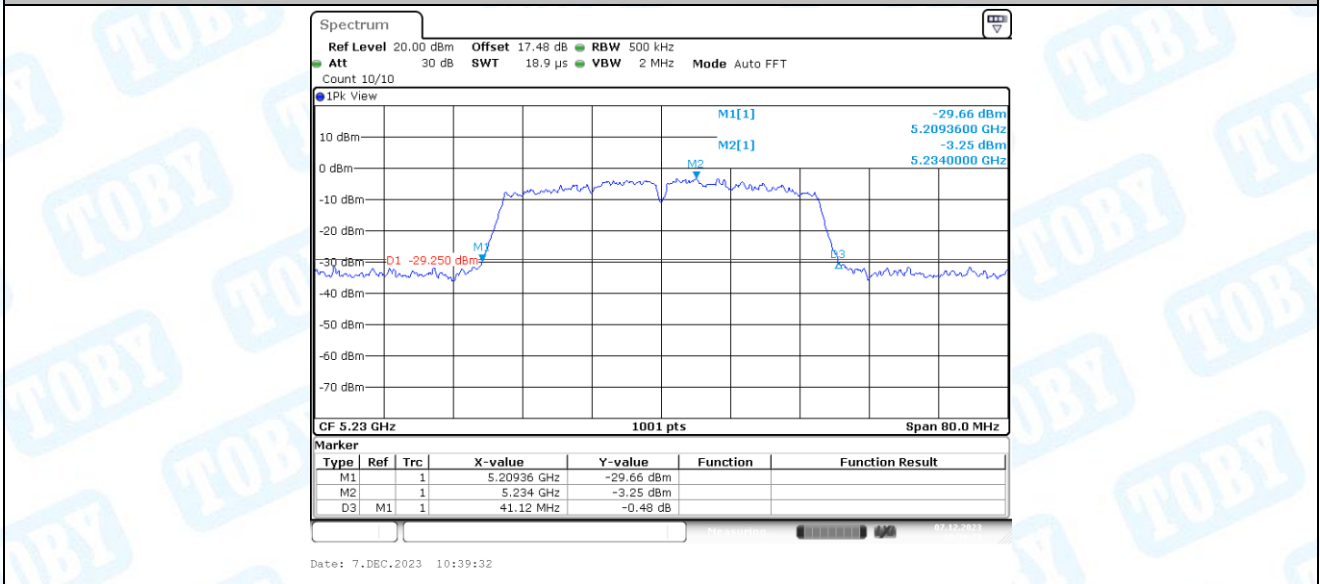


11AC20SISO_Ant1_5180





11AC40SISO_Ant1_5230



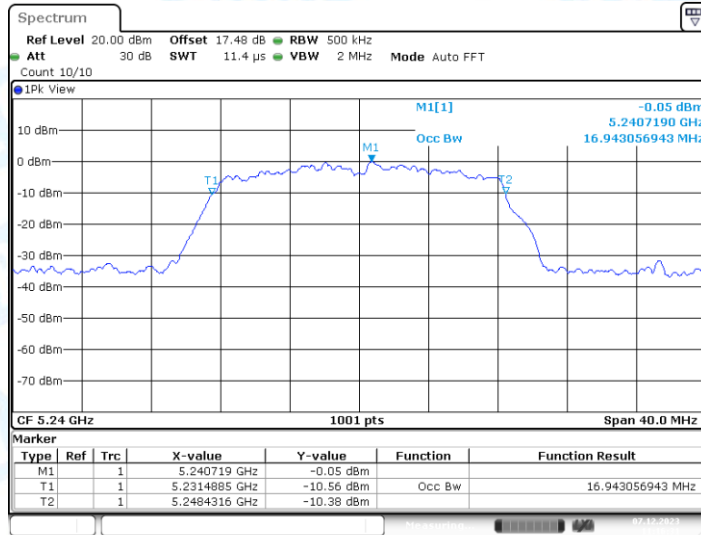
2. Occupied channel bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.743	5171.6084	5188.3516	---	---
		5200	16.623	5191.7682	5208.3916	---	---
		5240	16.943	5231.4885	5248.4316	---	---
11N20SISO	Ant1	5180	17.782	5171.0889	5188.8711	---	---
		5200	18.022	5190.8891	5208.9111	---	---
		5240	17.902	5231.1289	5249.0310	---	---
11N40SISO	Ant1	5190	36.204	5171.7782	5207.9820	---	---
		5230	36.364	5211.8581	5248.2218	---	---
11AC20SISO	Ant1	5180	17.902	5171.0490	5188.9510	---	---
		5200	17.982	5191.0490	5209.0310	---	---
		5240	17.662	5231.1289	5248.7912	---	---
11AC40SISO	Ant1	5190	36.763	5171.6184	5208.3816	---	---
		5230	36.124	5211.9381	5248.0619	---	---

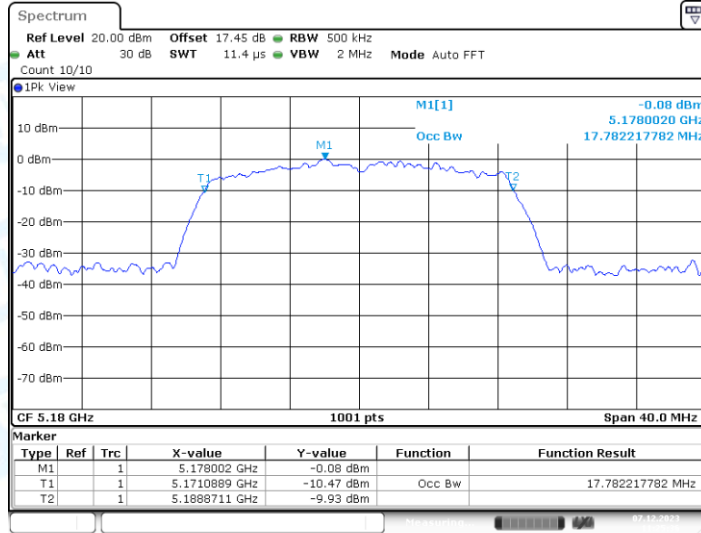
2.2. Test Graphs





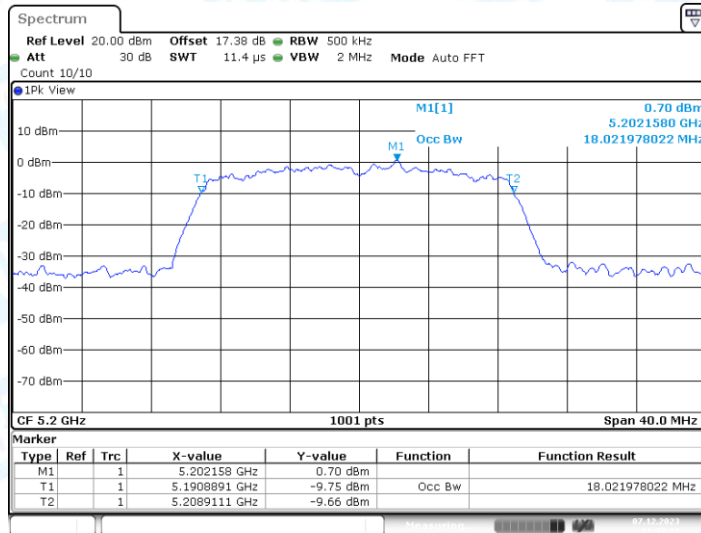
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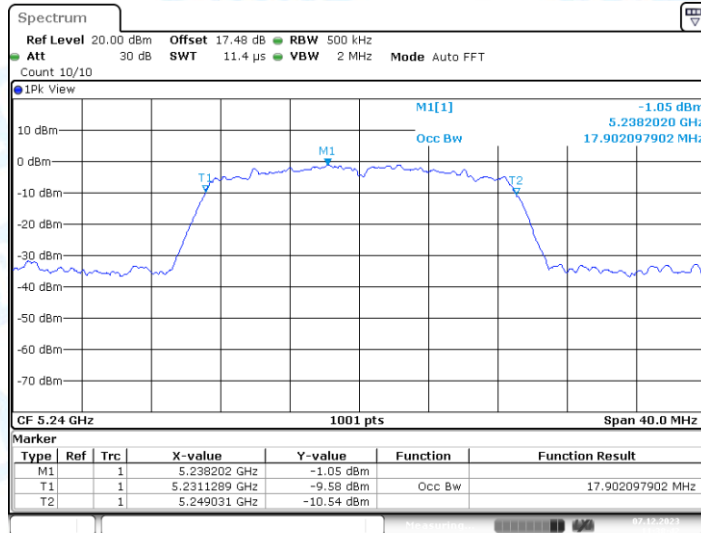
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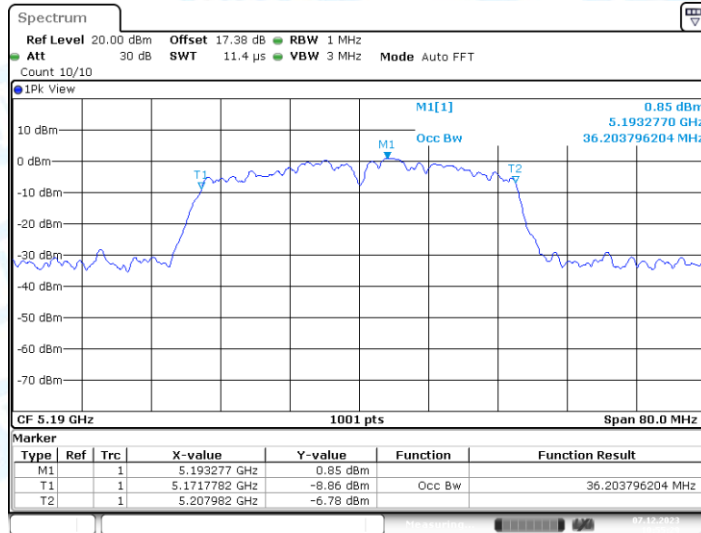
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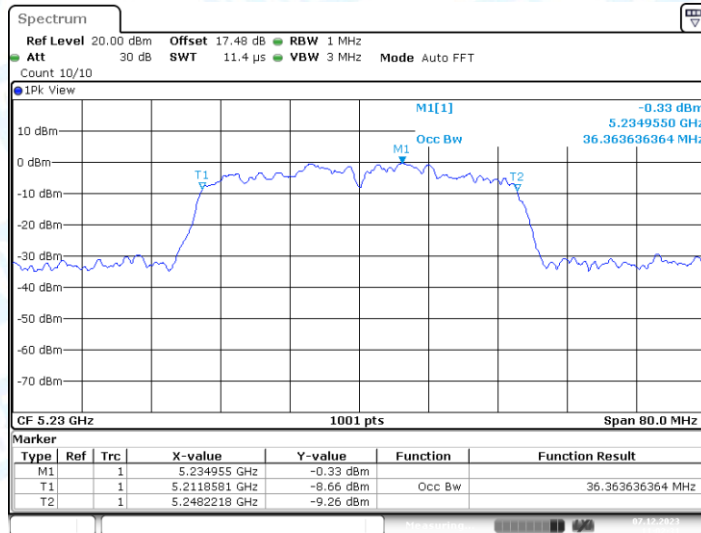
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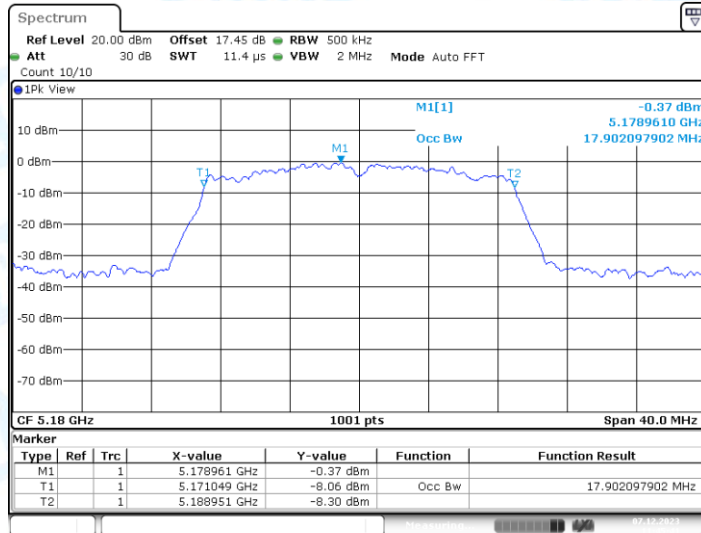
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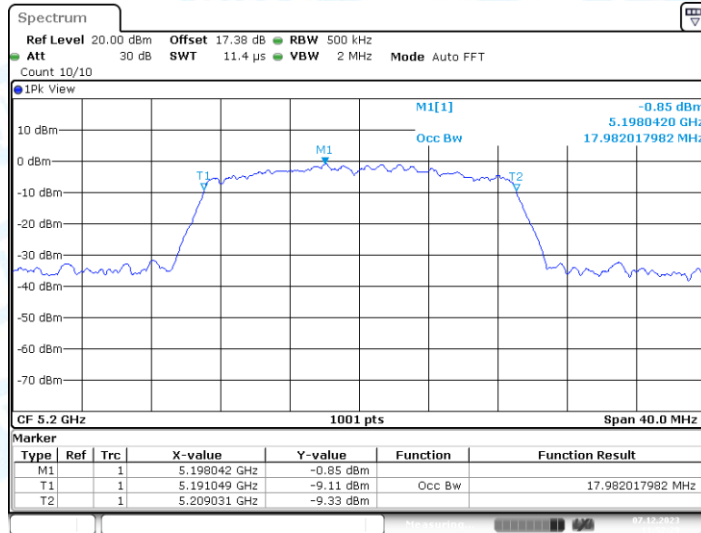
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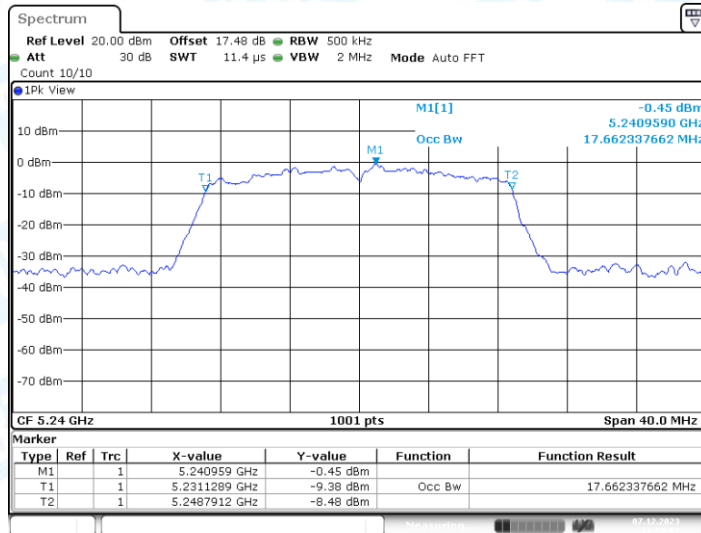
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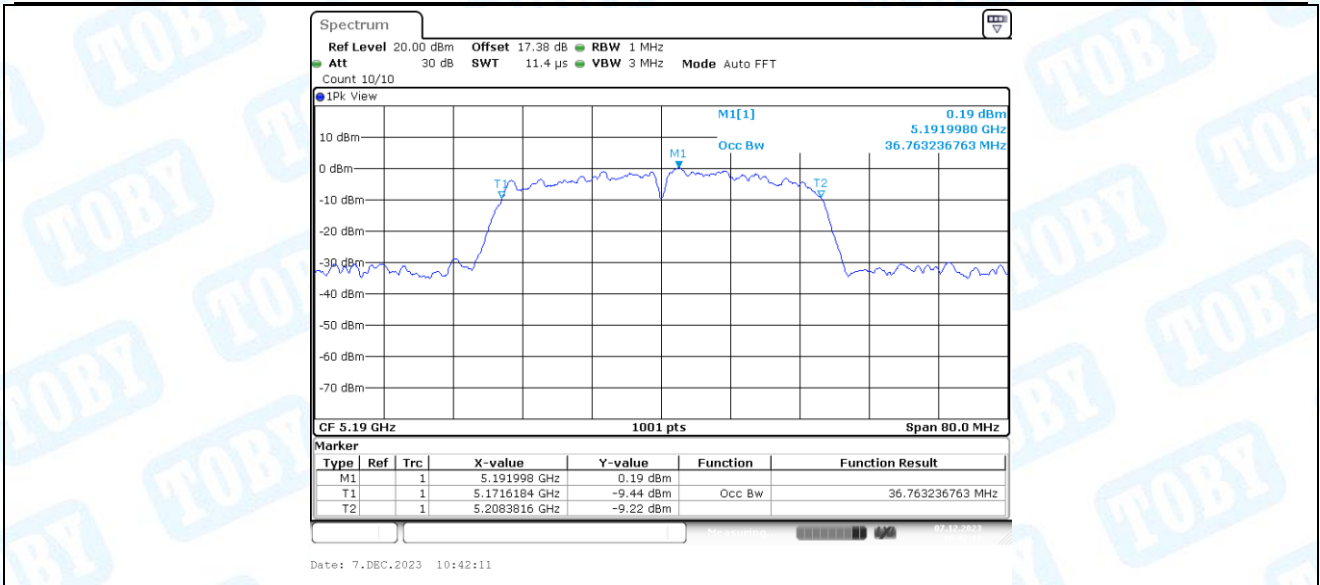
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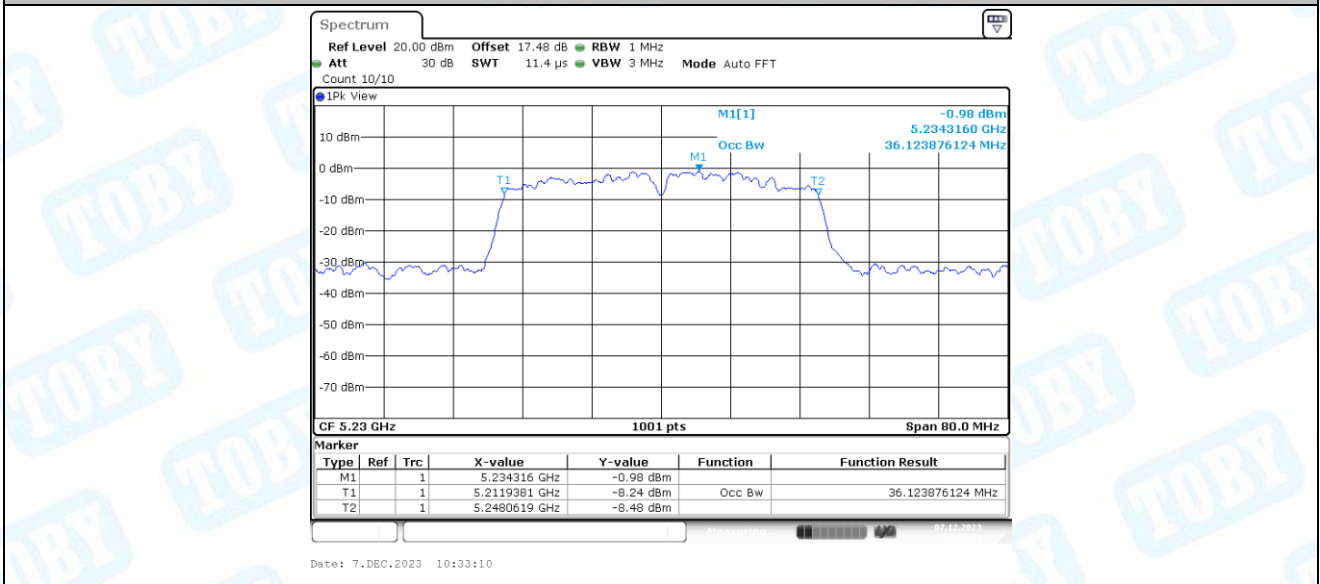


Date: 7.DEC.2023 11:58:52

11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



3. Maximum conducted output power

3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	5.51	≤23.98	PASS
		5200	5.78	≤23.98	PASS
		5240	5.88	≤23.98	PASS
11N20SISO	Ant1	5180	6.12	≤23.98	PASS
		5200	5.84	≤23.98	PASS
		5240	6.17	≤23.98	PASS
11N40SISO	Ant1	5190	6.07	≤23.98	PASS
		5230	5.62	≤23.98	PASS
11AC20SISO	Ant1	5180	6.15	≤23.98	PASS
		5200	5.92	≤23.98	PASS
		5240	5.63	≤23.98	PASS
11AC40SISO	Ant1	5190	5.98	≤23.98	PASS
		5230	5.66	≤23.98	PASS

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

4. Maximum power spectral density

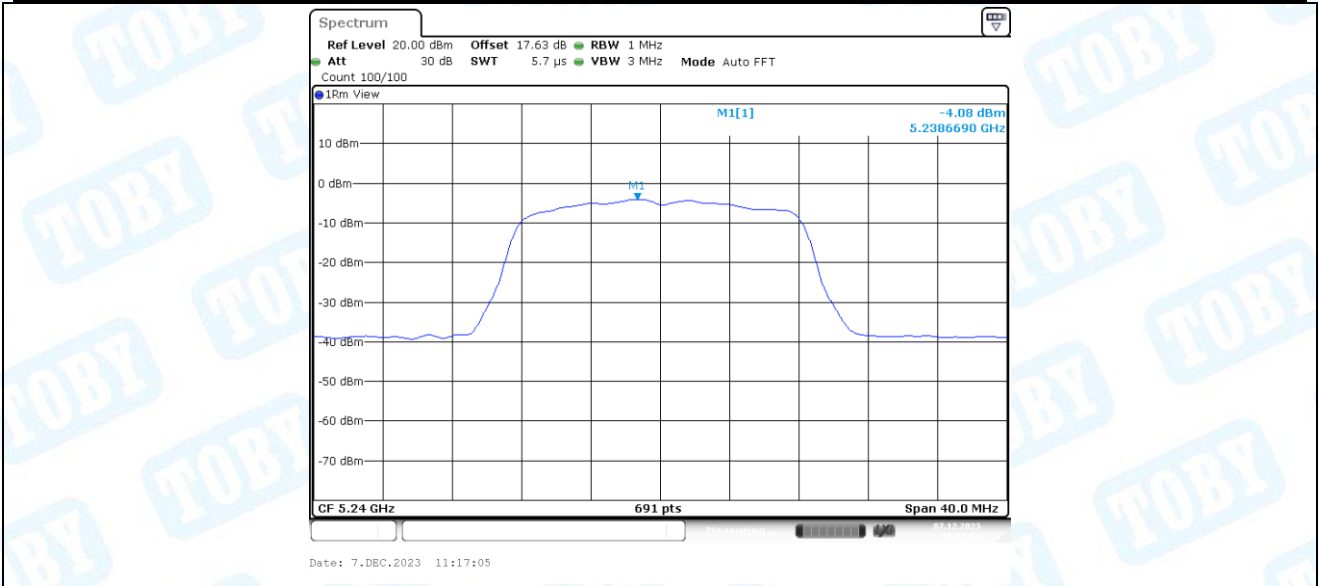
4.1. Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-4.09	≤11.00	PASS
		5200	-4.33	≤11.00	PASS
		5240	-4.08	≤11.00	PASS
11N20SISO	Ant1	5180	-3.55	≤11.00	PASS
		5200	-3.58	≤11.00	PASS
		5240	-4.06	≤11.00	PASS
11N40SISO	Ant1	5190	-6.13	≤11.00	PASS
		5230	-6.77	≤11.00	PASS
11AC20SISO	Ant1	5180	-3.29	≤11.00	PASS
		5200	-3.79	≤11.00	PASS
		5240	-4.17	≤11.00	PASS
11AC40SISO	Ant1	5190	-6.86	≤11.00	PASS
		5230	-6.96	≤11.00	PASS

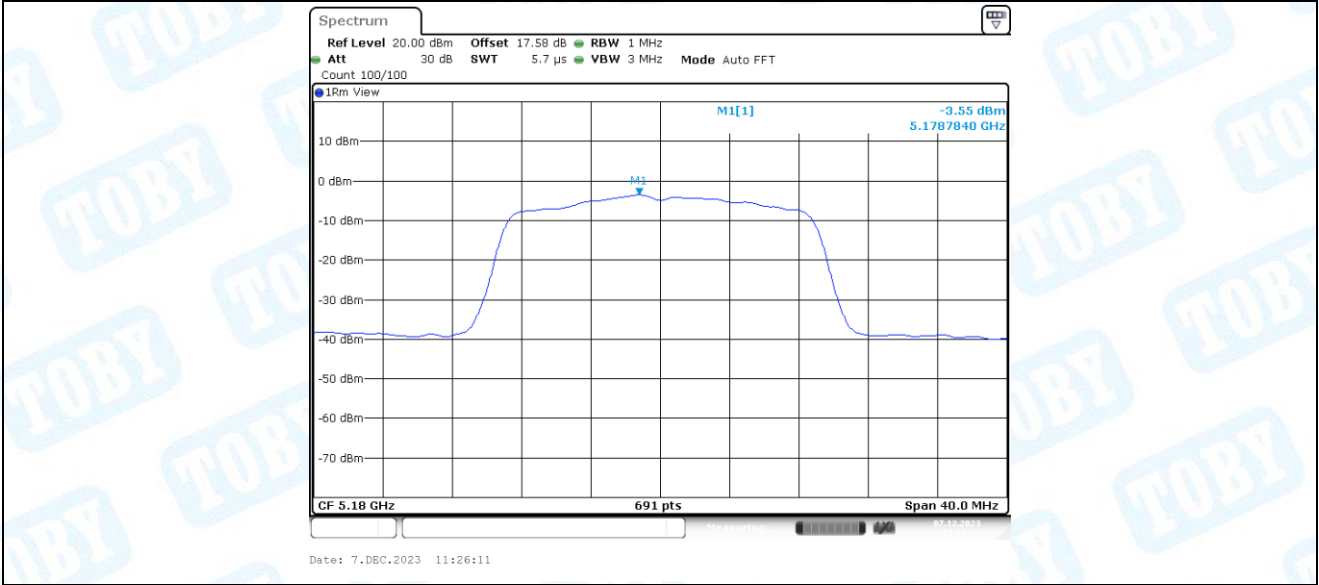
Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.

4.2. Test Graphs

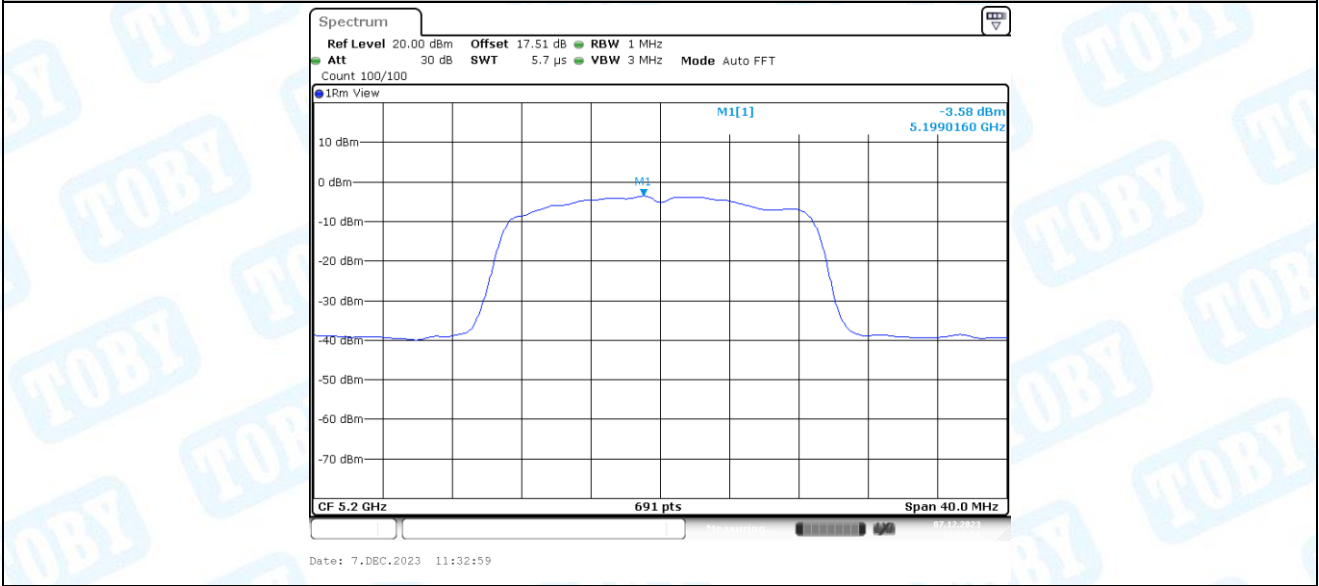




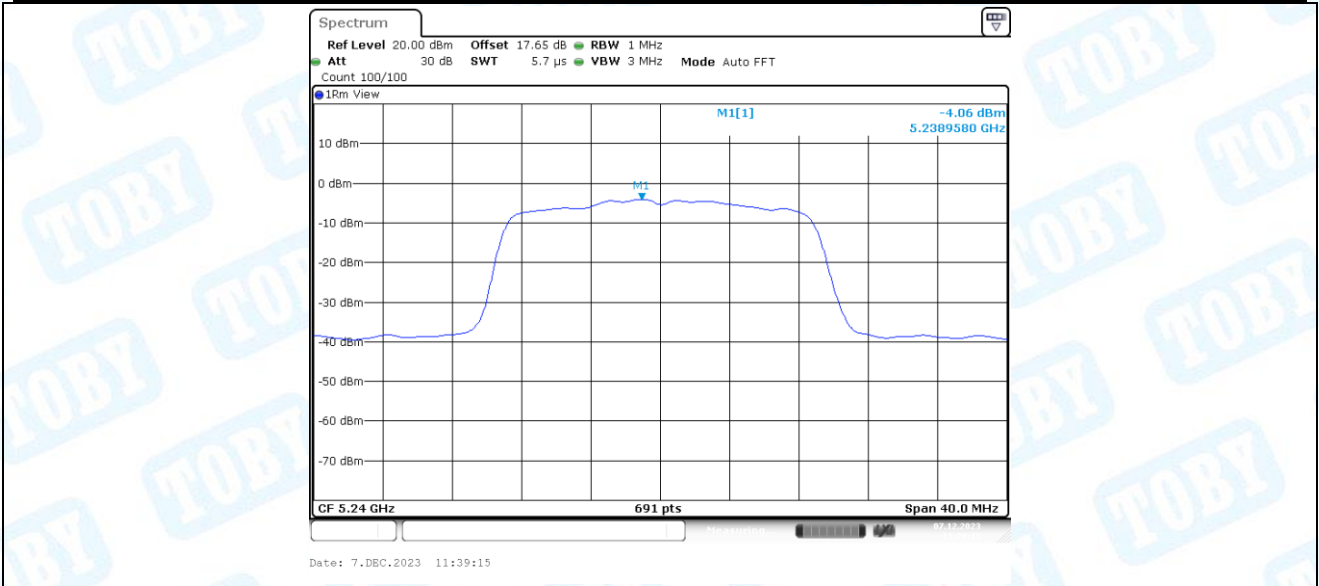
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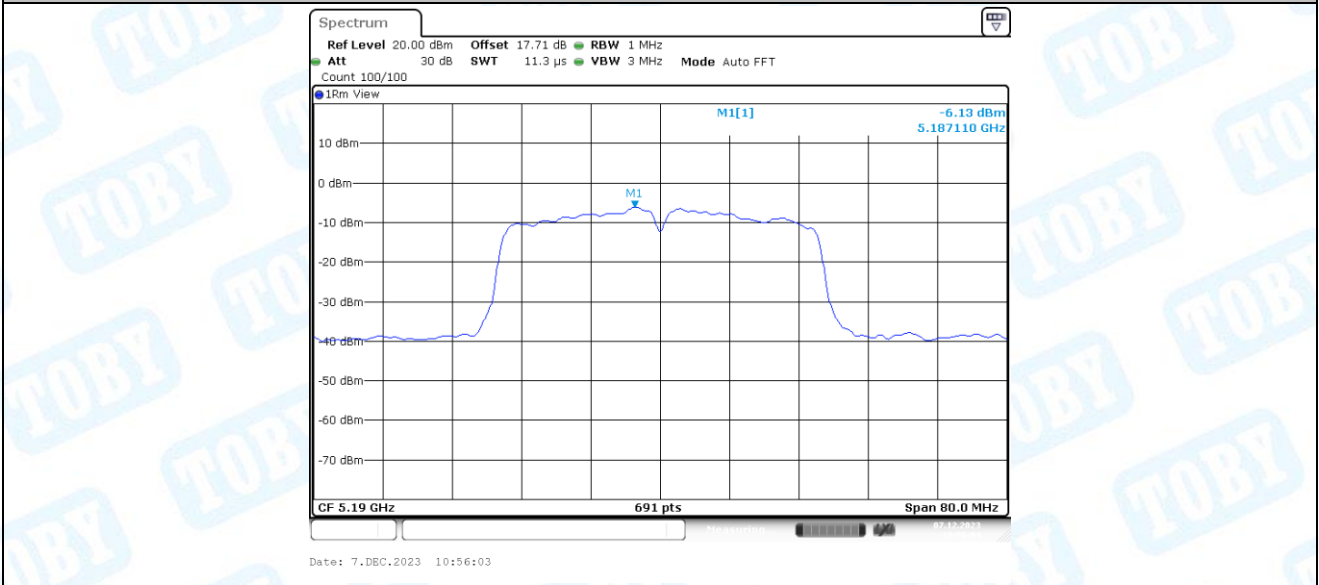
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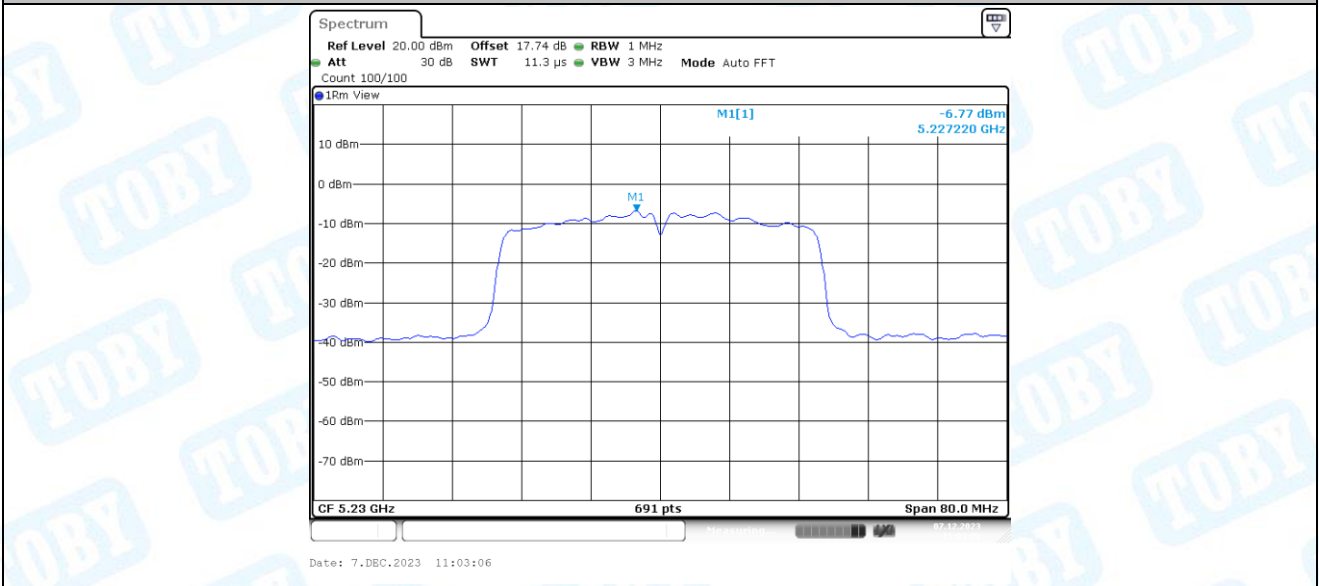
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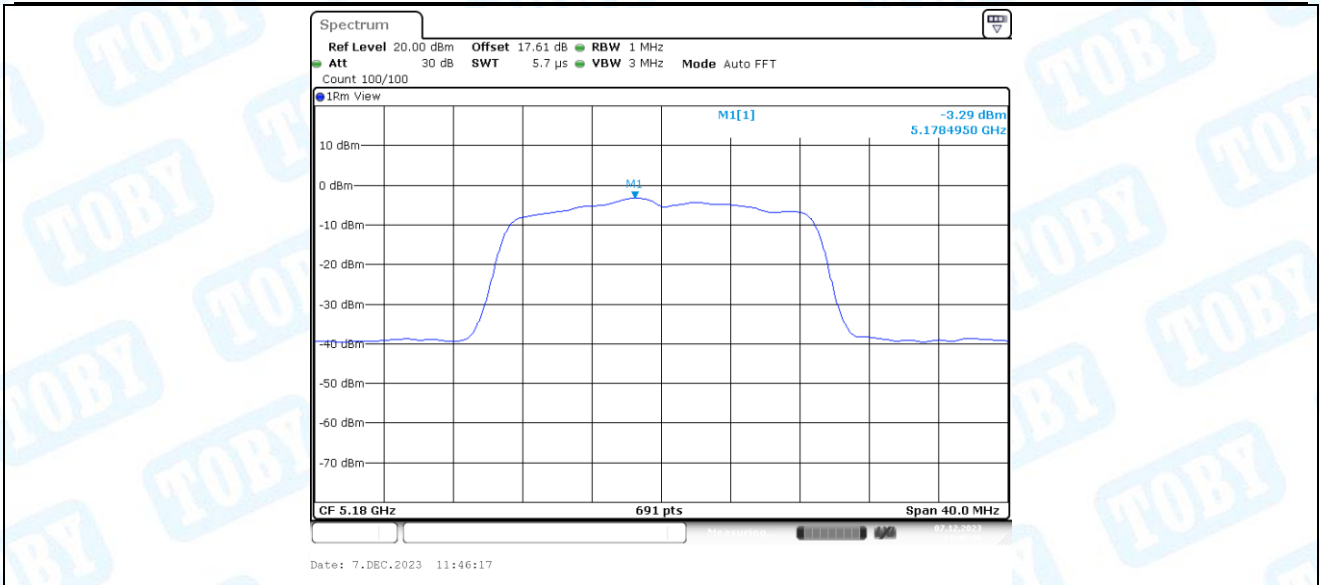
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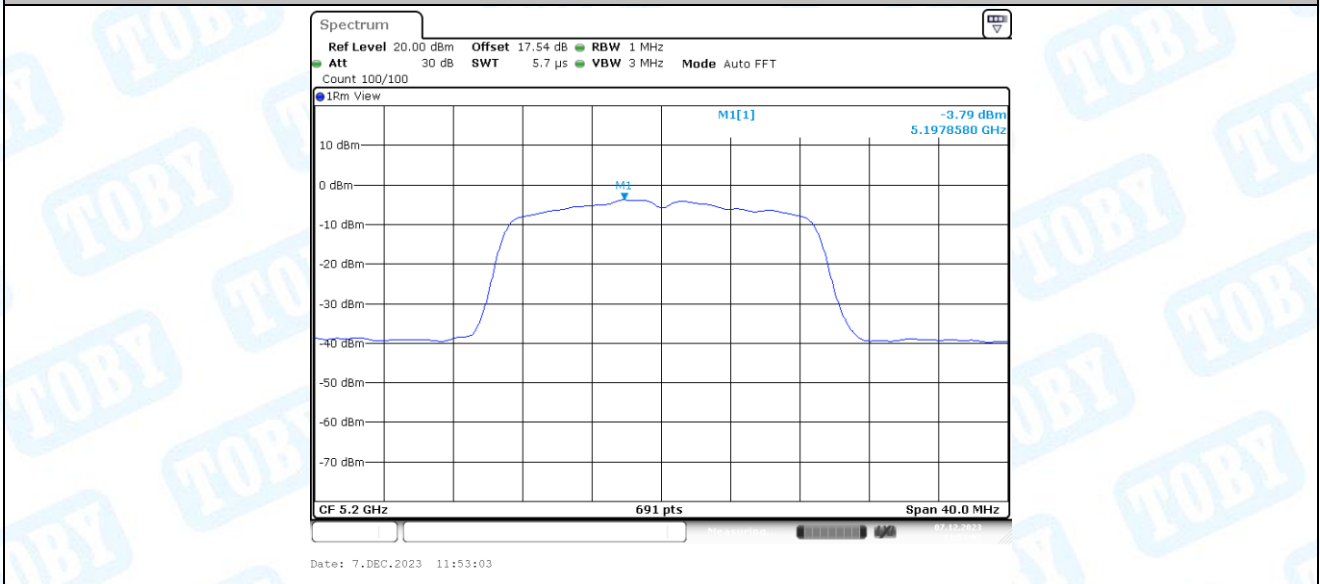
11N40SISO_Ant1_5230



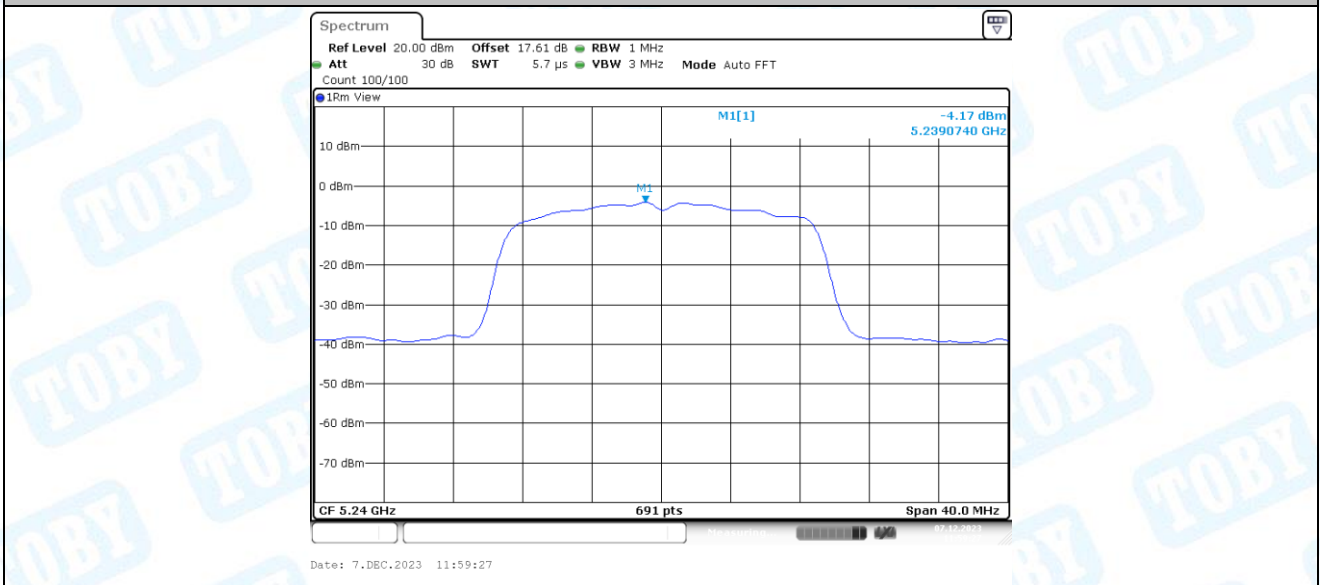
11AC20SISO_Ant1_5180



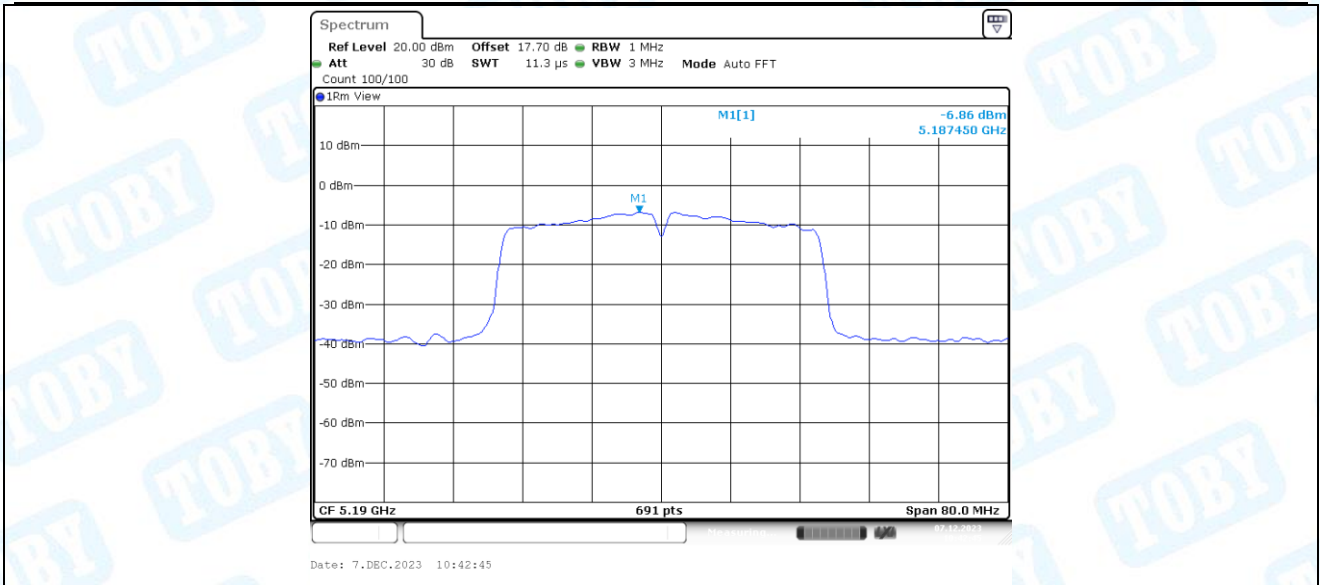
11AC20SISO_Ant1_5200



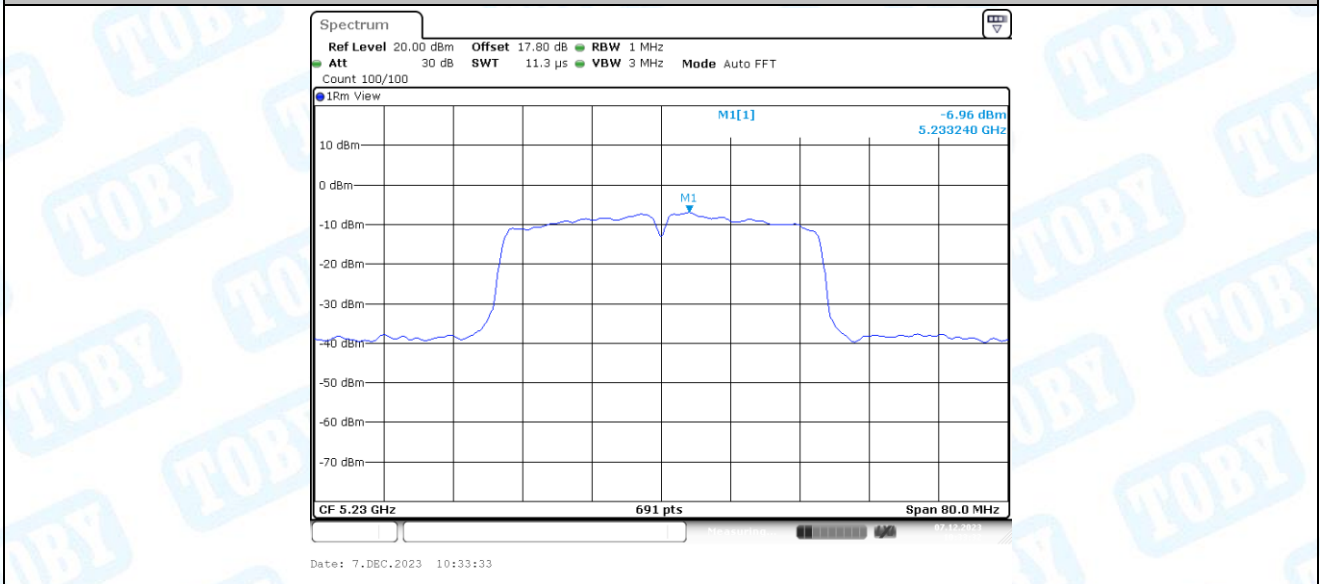
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



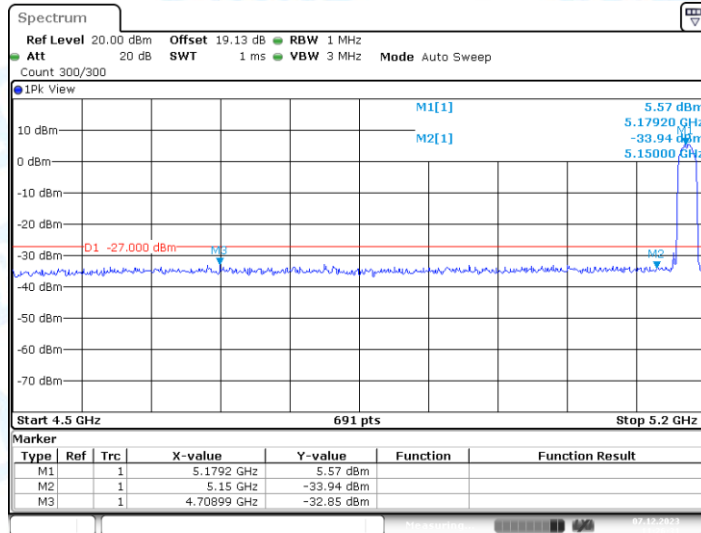
5. Band edge measurements

5.1. Test Result

TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-32.36	≤-27	PASS
		High	5240	-36.82	≤-27	PASS
11N20SISO	Ant1	Low	5180	-32.85	≤-27	PASS
		High	5240	-36.25	≤-27	PASS
11N40SISO	Ant1	Low	5190	-32.46	≤-27	PASS
		High	5230	-35.15	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-32.55	≤-27	PASS
		High	5240	-34.89	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-32.57	≤-27	PASS
		High	5230	-35.78	≤-27	PASS

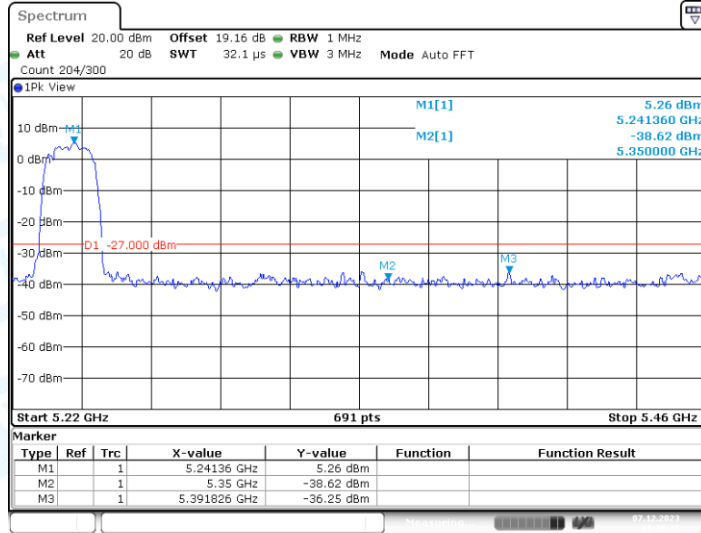
5.2. Test Graphs





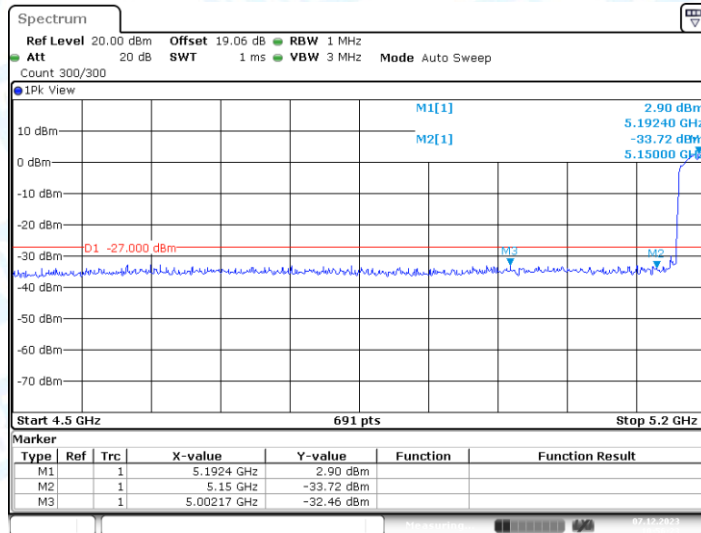
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11N20SISO_Ant1_High_5240



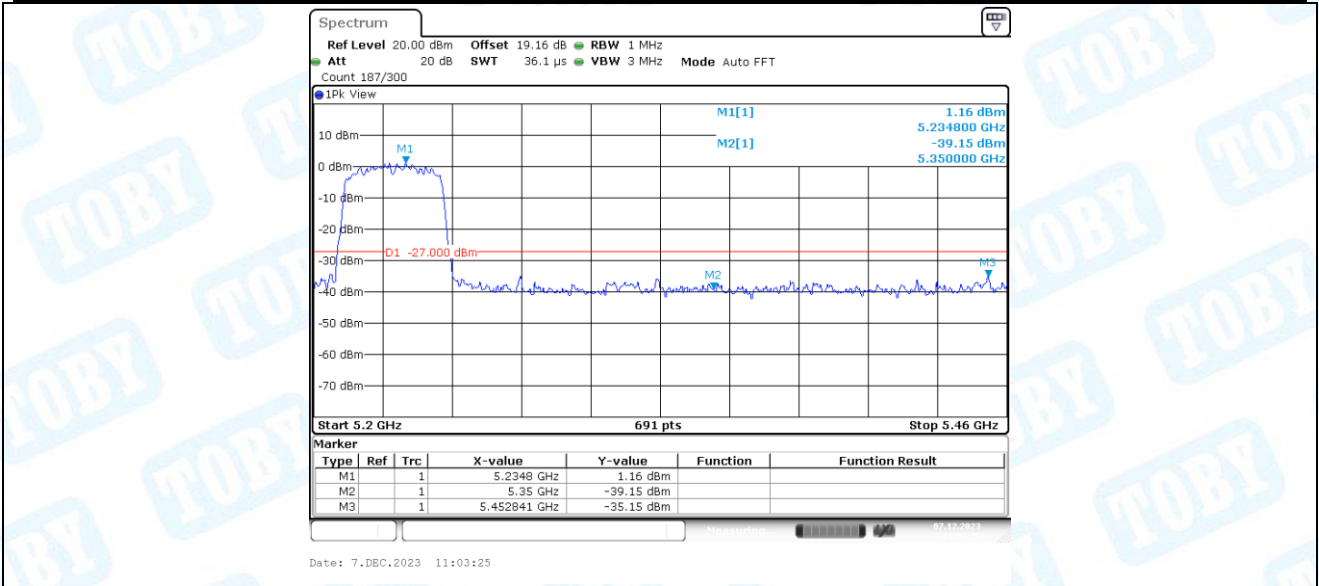
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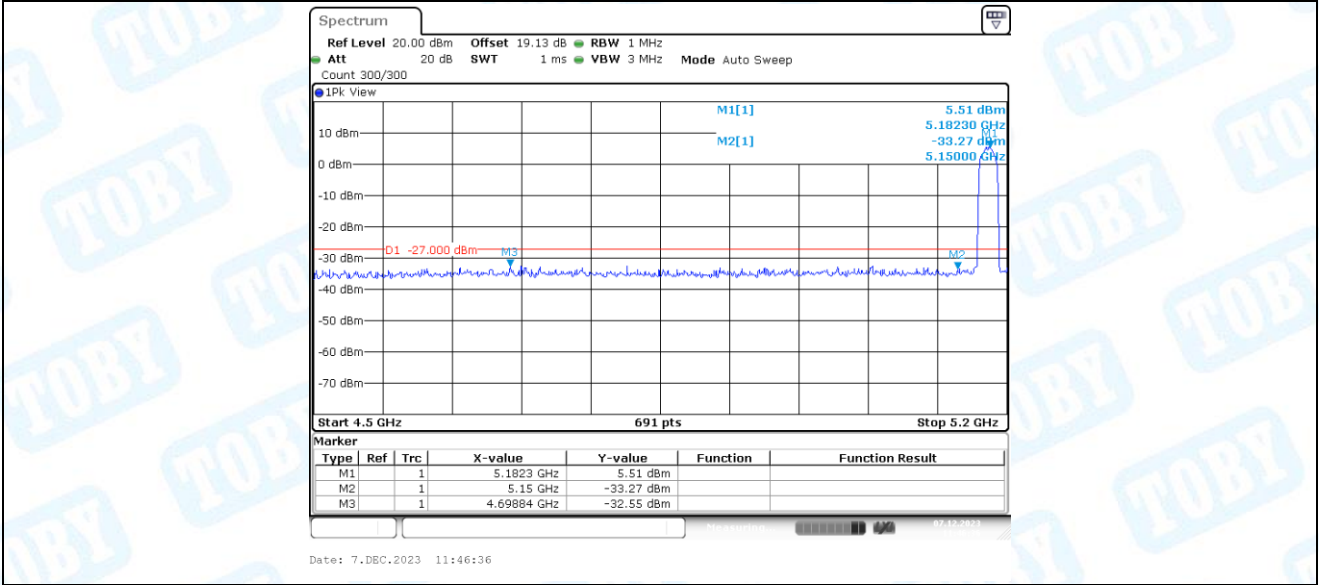


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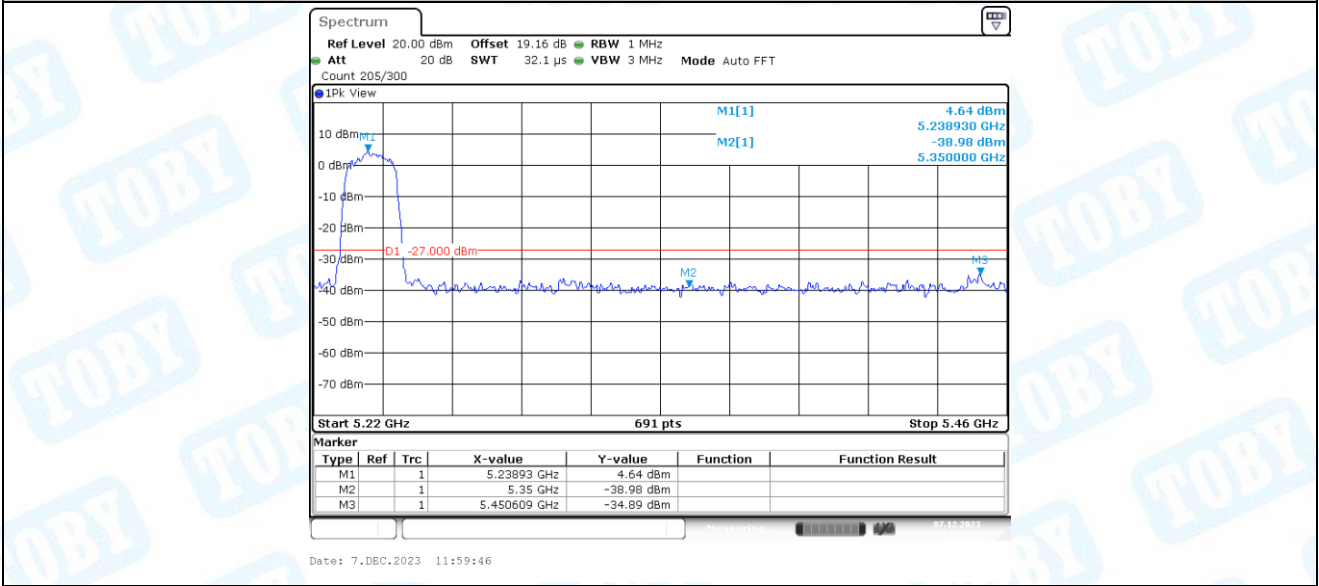
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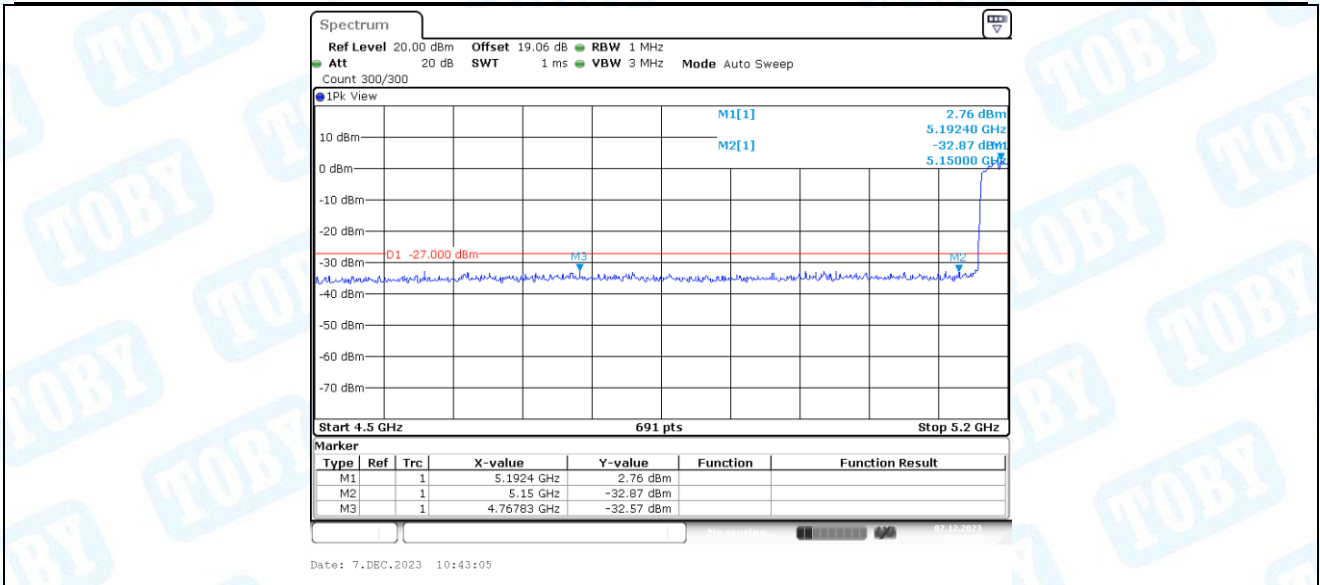
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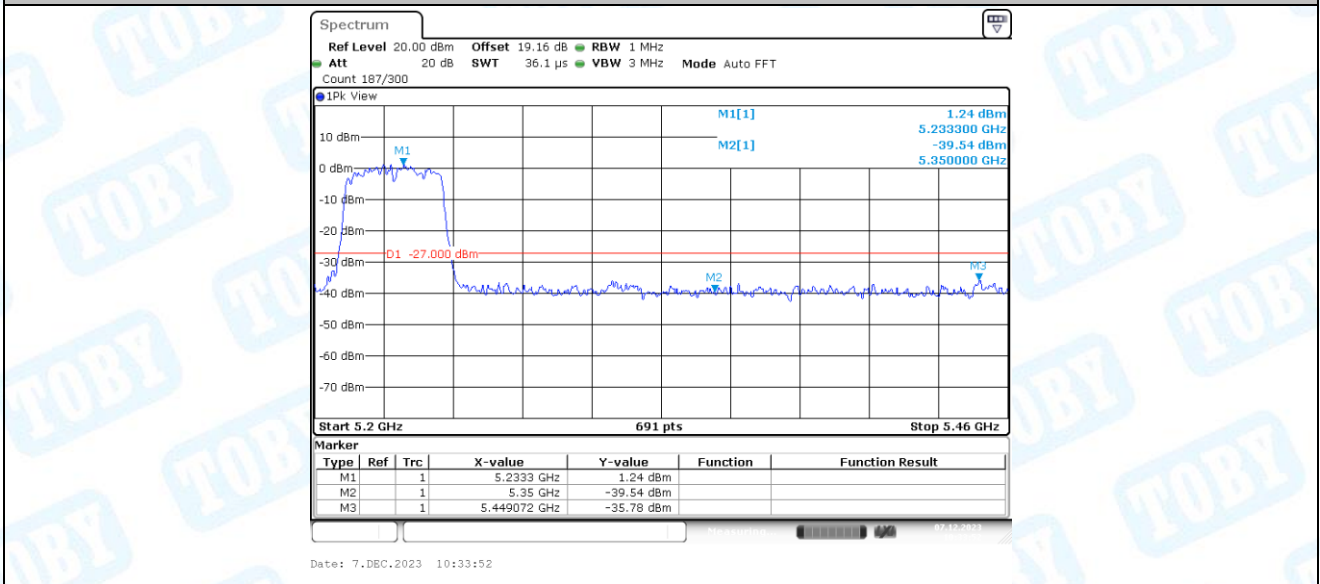
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11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



6. Emissions in Restricted Bands

6.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq [MHz]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-50.07	≤-41.20	PASS
				AV	5032.609	-46.4	≤-41.20	PASS
				AV	5150.000	-49.02	≤-41.20	PASS
				Peak	4500.000	-34.53	≤-21.20	PASS
				Peak	4767.826	-32.06	≤-21.20	PASS
				Peak	5150.000	-34.13	≤-21.20	PASS
		High	5240	AV	5350.000	-48.29	≤-41.20	PASS
				AV	5447.130	-46.32	≤-41.20	PASS
				AV	5460.000	-47.93	≤-41.20	PASS
				Peak	5350.000	-36.34	≤-21.20	PASS
				Peak	5448.522	-34.79	≤-21.20	PASS
				Peak	5460.000	-37.52	≤-21.20	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-50	≤-41.20	PASS
				AV	5032.609	-46.51	≤-41.20	PASS
				AV	5150.000	-48.89	≤-41.20	PASS
				Peak	4500.000	-34.73	≤-21.20	PASS
				Peak	5108.696	-31.64	≤-21.20	PASS
				Peak	5150.000	-33.39	≤-21.20	PASS
		High	5240	AV	5350.000	-48.26	≤-41.20	PASS
				AV	5447.478	-46.26	≤-41.20	PASS
				AV	5460.000	-48.16	≤-41.20	PASS
				Peak	5350.000	-38.84	≤-21.20	PASS
				Peak	5443.304	-34.82	≤-21.20	PASS
				Peak	5460.000	-38.54	≤-21.20	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-49.46	≤-41.20	PASS
				AV	4962.609	-46.53	≤-41.20	PASS
				AV	5150.000	-48.38	≤-41.20	PASS
				Peak	4500.000	-35.43	≤-21.20	PASS
				Peak	5084.348	-31.7	≤-21.20	PASS
				Peak	5150.000	-33.99	≤-21.20	PASS
		High	5230	AV	5350.000	-48.1	≤-41.20	PASS
				AV	5447.942	-46	≤-41.20	PASS
				AV	5460.000	-47.67	≤-41.20	PASS
				Peak	5350.000	-36.93	≤-21.20	PASS
				Peak	5452.087	-34.4	≤-21.20	PASS
				Peak	5460.000	-36.58	≤-21.20	PASS
11AC20SISO O	Ant1	Low	5180	AV	4500.000	-50.41	≤-41.20	PASS
				AV	5032.609	-46.37	≤-41.20	PASS

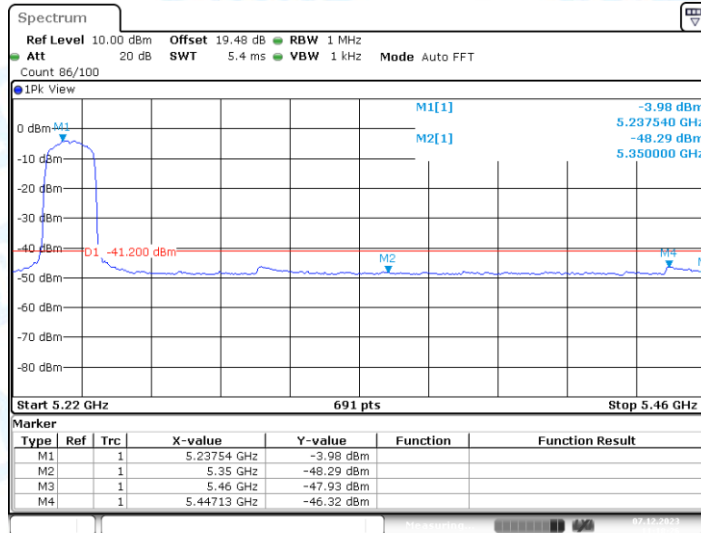
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				Peak	4500.000	-34.53	≤-21.20	PASS
				Peak	4682.609	-32.15	≤-21.20	PASS
				Peak	5150.000	-33.69	≤-21.20	PASS
		AV		5350.000	-48.26	≤-41.20	PASS	
		AV		5448.174	-46.18	≤-41.20	PASS	
		AV		5460.000	-48.09	≤-41.20	PASS	
	Peak	5350.000	-36.25	≤-21.20	PASS			
	Peak	5377.565	-35.87	≤-21.20	PASS			
	Peak	5460.000	-39.27	≤-21.20	PASS			
	Ant2	Low	5190	AV	4500.000	-49.73	≤-41.20	PASS
				AV	5032.609	-46.14	≤-41.20	PASS
				AV	5150.000	-48.6	≤-41.20	PASS
		Peak		4500.000	-35.47	≤-21.20	PASS	
Peak		5092.464		-30.59	≤-21.20	PASS		
Peak		5150.000		-34.72	≤-21.20	PASS		
High		5230		AV	5350.000	-48.19	≤-41.20	PASS
	AV		5448.319	-45.97	≤-41.20	PASS		
	AV		5460.000	-47.77	≤-41.20	PASS		
	Peak		5350.000	-37.14	≤-21.20	PASS		
Peak	5420.435		-35.3	≤-21.20	PASS			
Peak	5460.000		-37.84	≤-21.20	PASS			

Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

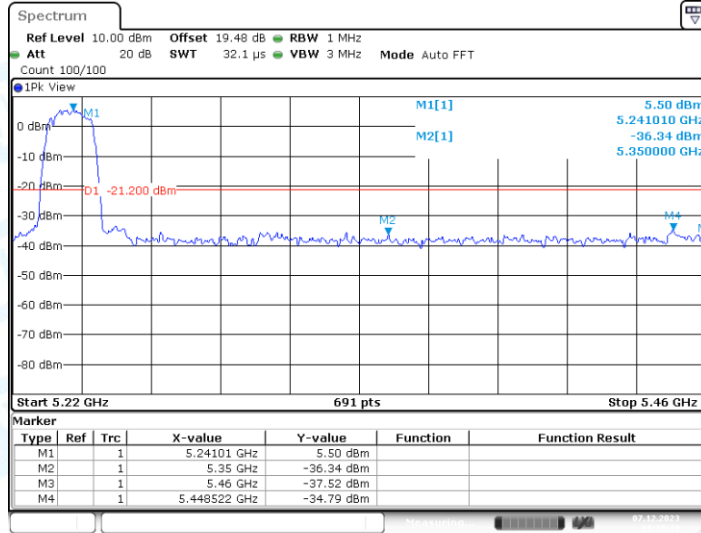
6.2. Test Graphs





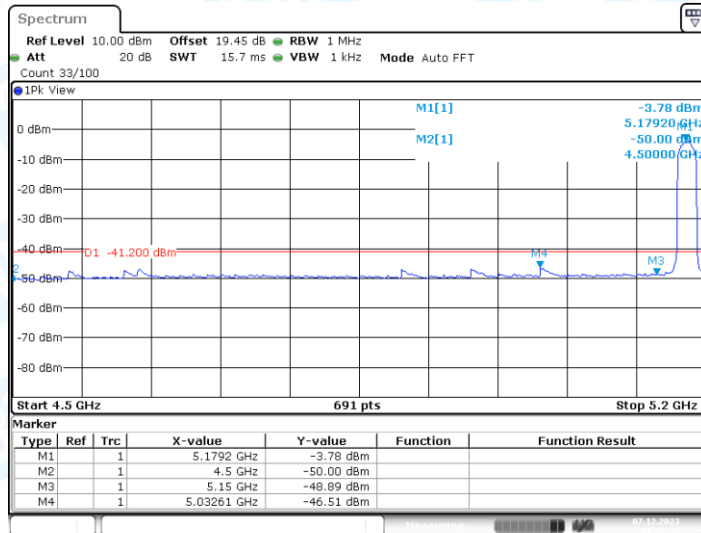
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11A_Ant1_High_5240_Peak



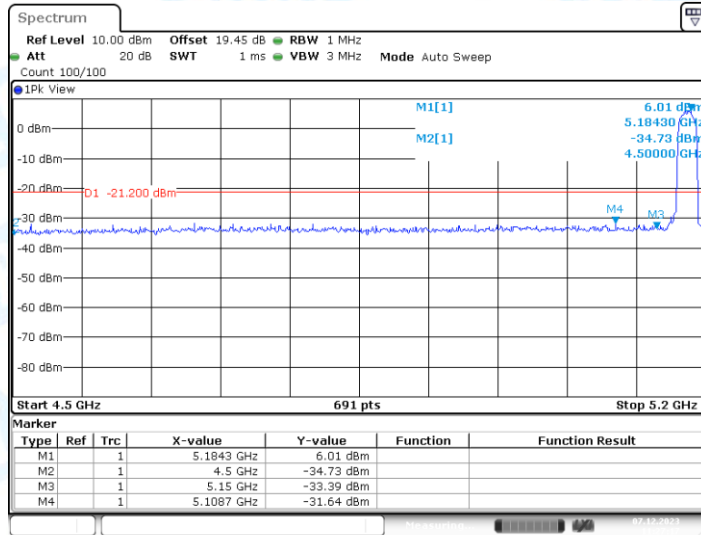
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11N20SISO_Ant1_Low_5180_AV



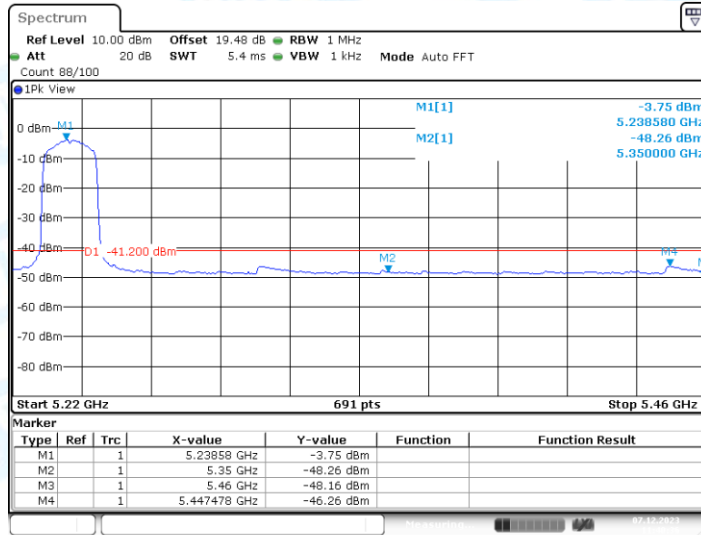
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11N20SISO_Ant1_Low_5180_Peak



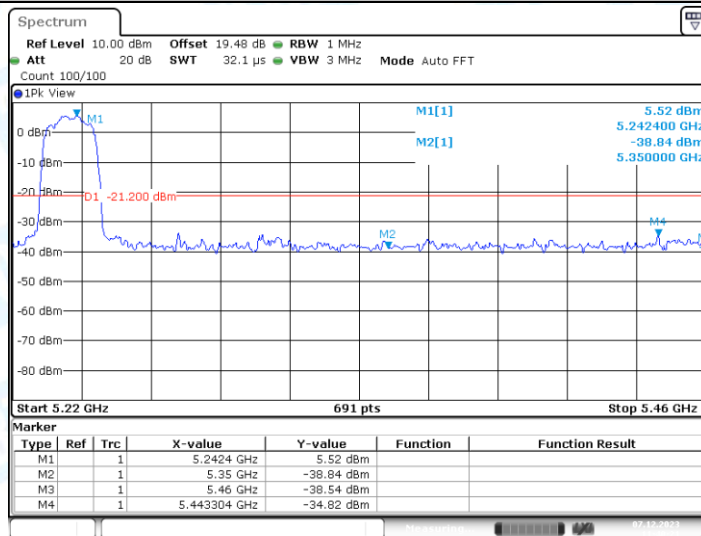
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11N20SISO_Ant1_High_5240_AV



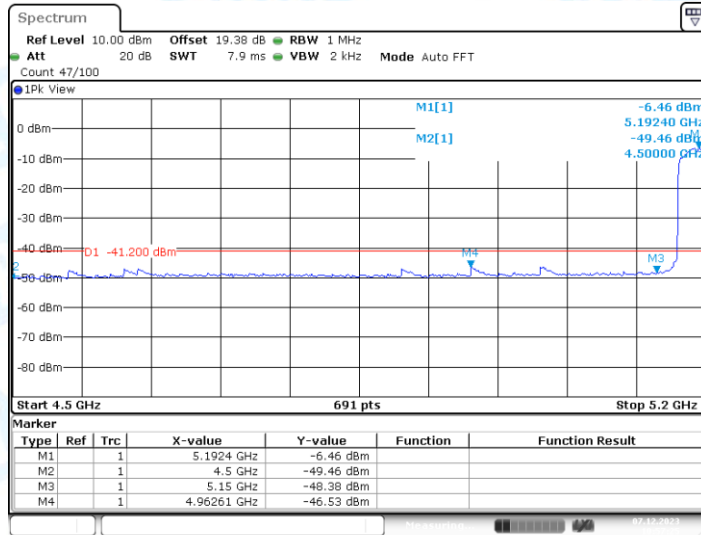
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11N20SISO_Ant1_High_5240_Peak



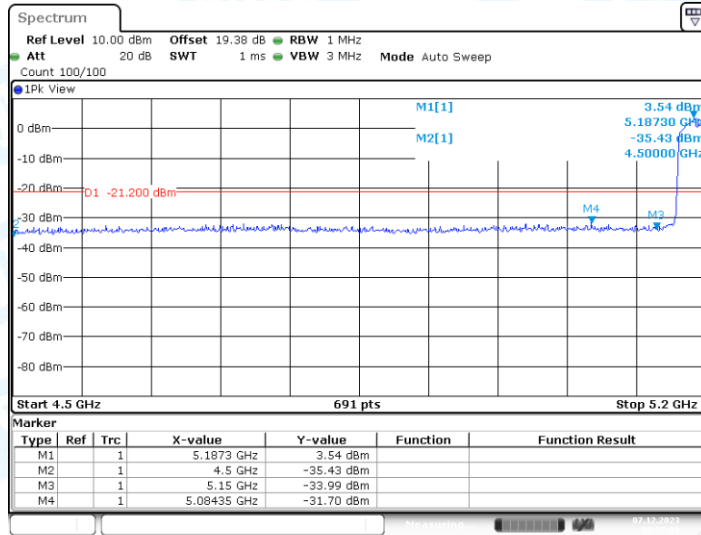
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11N40SISO_Ant1_Low_5190_AV



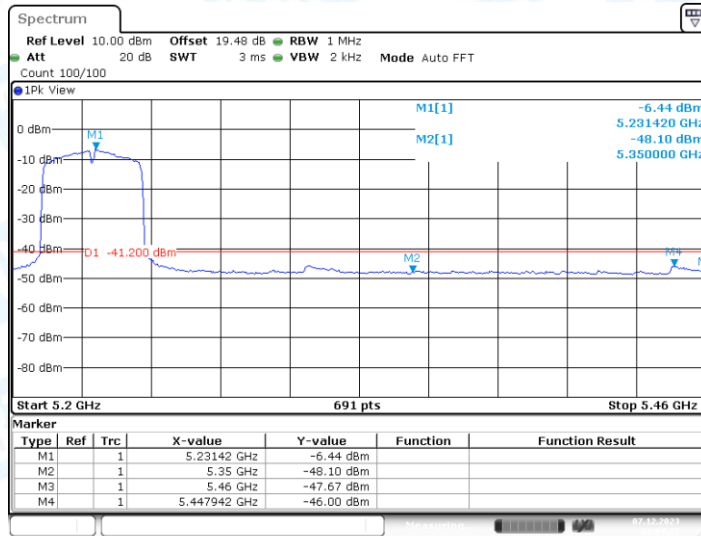
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11N40SISO_Ant1_Low_5190_Peak



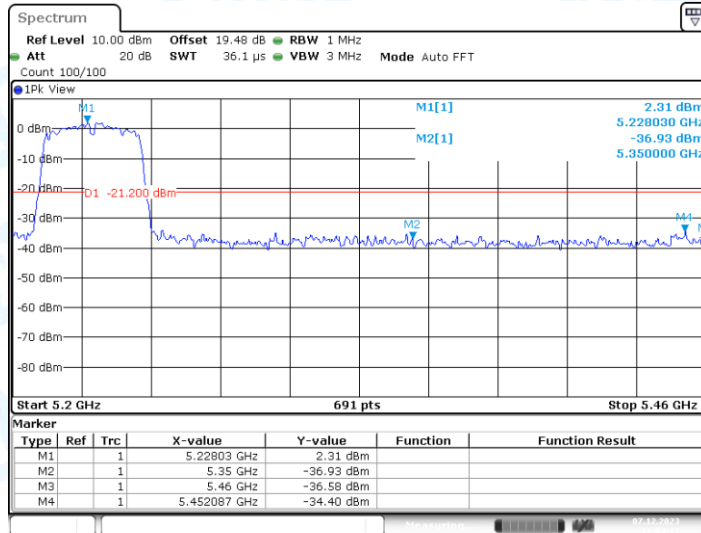
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11N40SISO_Ant1_High_5230_AV

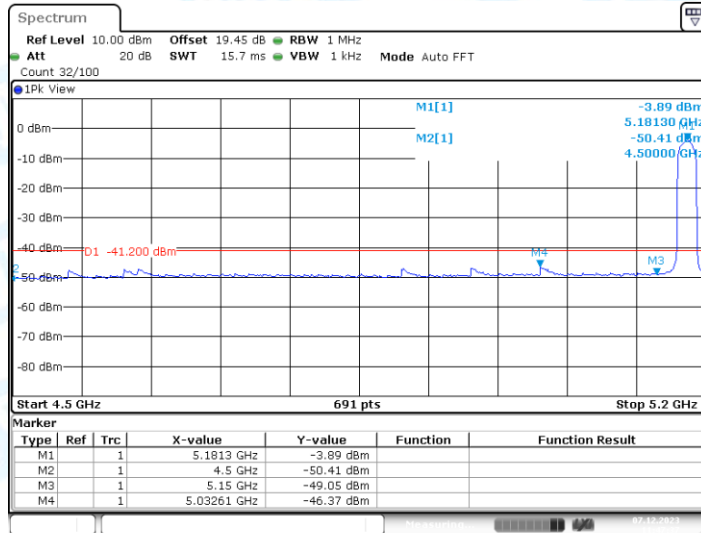


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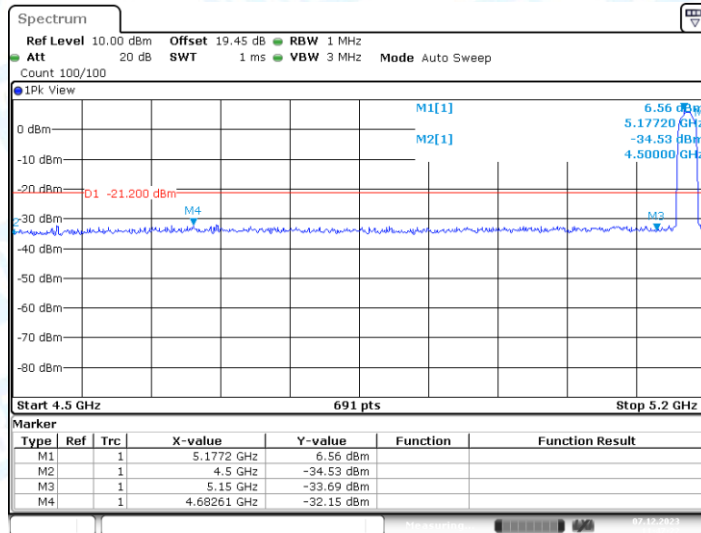
11N40SISO_Ant1_High_5230_Peak



11AC20SISO_Ant1_Low_5180_AV



11AC20SISO_Ant1_Low_5180_Peak



11AC20SISO_Ant1_High_5240_AV