

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

General Description of EUT	
Product Name:	nooie smart baby monitor
Test Model:	NB2
Sample ID:	HC-C-202401-0300-01-02-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	ZKN ZHOU
Note: For a more detailed features description, please refer to the report TBR-C-202401-0300-22	

Contents

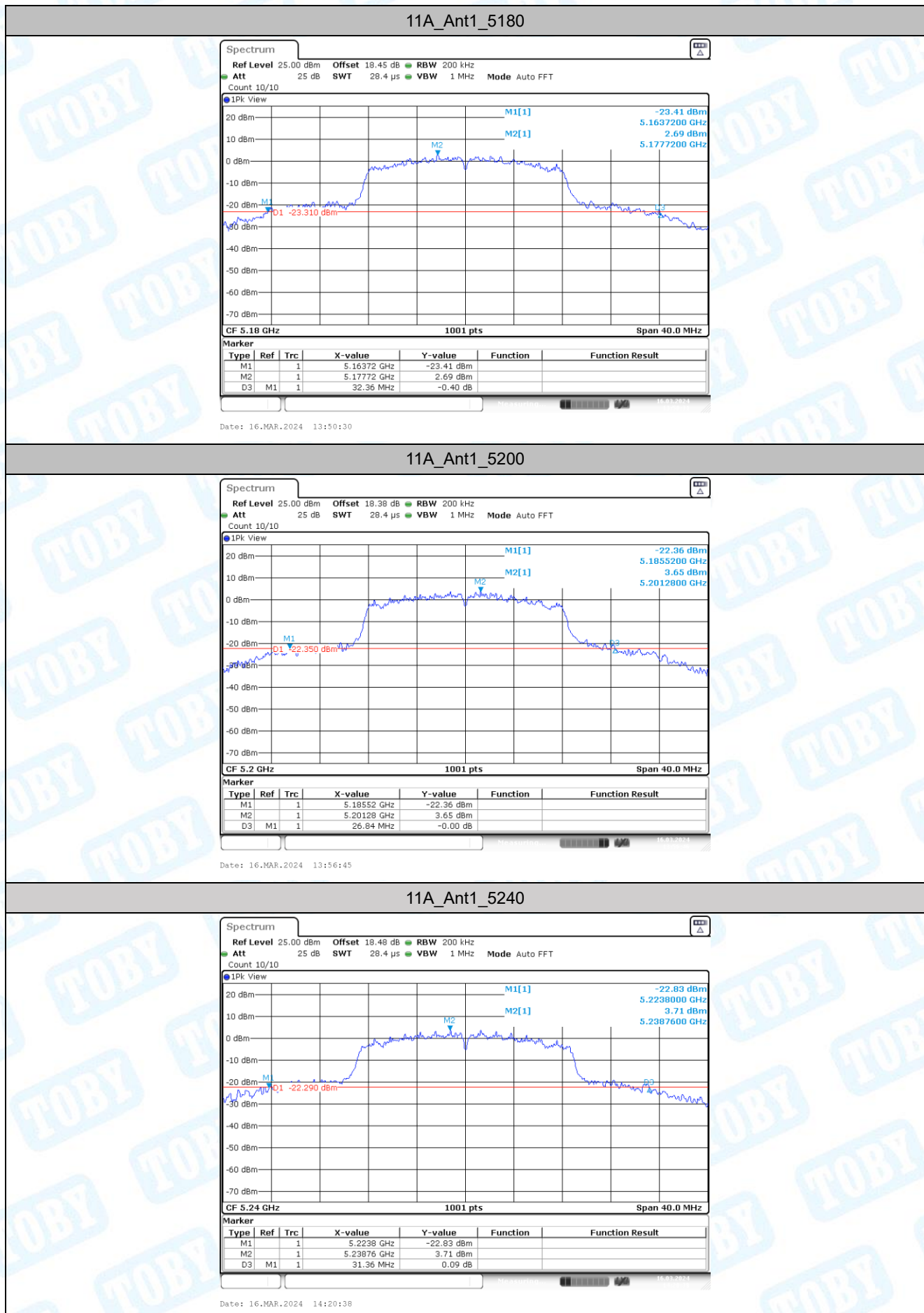
1. Emission Bandwidth.....	3
1.1. Test Result.....	3
1.2. Test Graphs	4
2. Occupied channel bandwidth	6
2.1. Test Result.....	6
2.2. Test Graphs	7
3. Maximum conducted output power.....	9
3.1. Test Result.....	9
4. Maximum power spectral density	10
4.1. Test Result.....	10
4.2. Test Graphs	11
5. Conducted Spurious Emission.....	13
5.1. Test Result.....	13
5.2. Test Graphs	14
6. Frequency Stability	18
6.1. Test Result.....	18
7. Duty Cycle	20
7.1. Test Result.....	20
7.2. Test Graphs	21

1. Emission Bandwidth

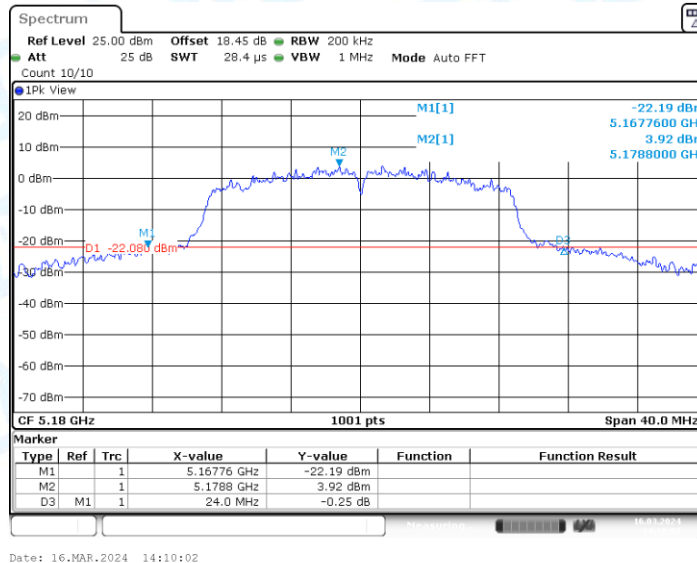
1.1. Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	32.36	5163.72	5196.08	---	---
		5200	26.84	5185.52	5212.36	---	---
		5240	31.36	5223.80	5255.16	---	---
11N20SISO	Ant1	5180	24.00	5167.76	5191.76	---	---
		5200	27.48	5185.48	5212.96	---	---
		5240	31.36	5223.80	5255.16	---	---

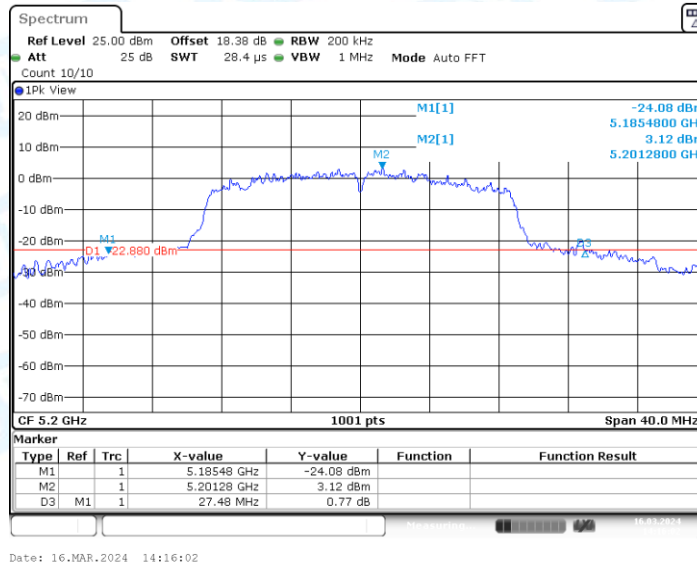
1.2. Test Graphs



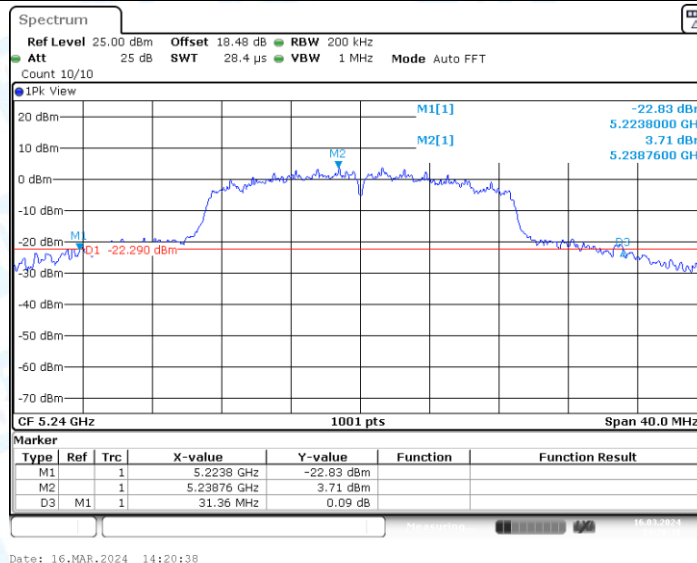
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240

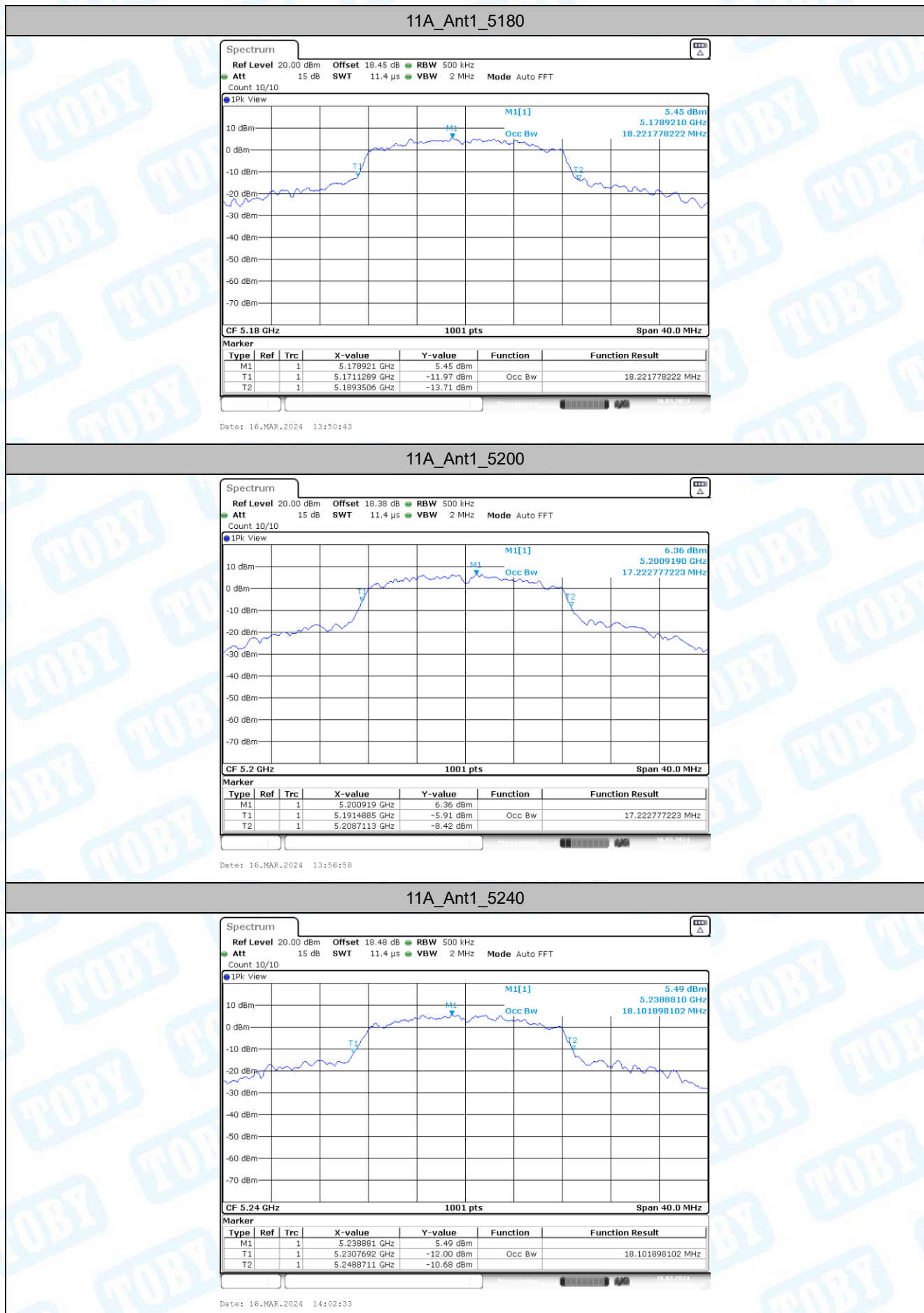


2. Occupied channel bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.222	5171.1289	5189.3506	---	---
		5200	17.223	5191.4885	5208.7113	---	---
		5240	18.102	5230.7692	5248.8711	---	---
11N20SISO	Ant1	5180	18.142	5170.9690	5189.1109	---	---
		5200	18.182	5190.9291	5209.1109	---	---
		5240	18.501	5230.6893	5249.1908	---	---

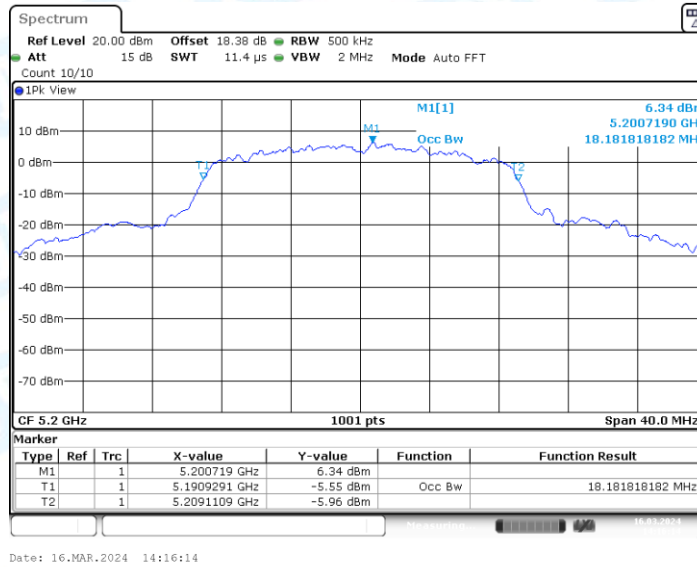
2.2. Test Graphs



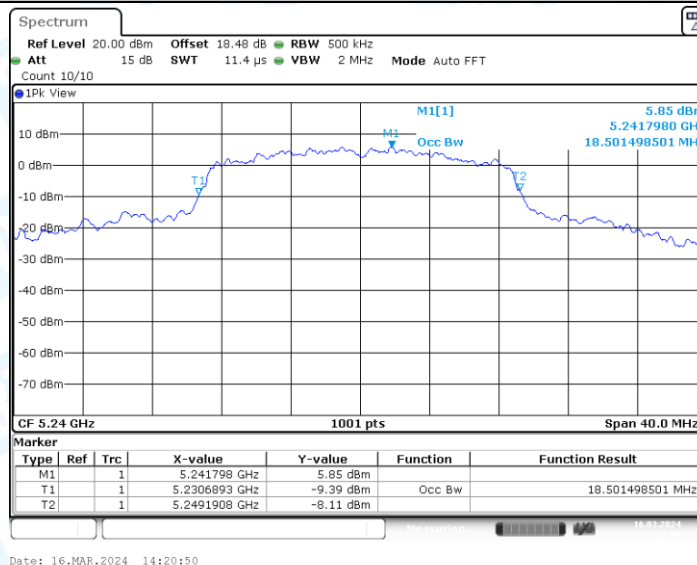
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



3. Maximum conducted output power

3.1. Test Result

TestMode	Antenna	Channel	Conducted power [dBm]	Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.44	≤23.98	14.21	≤23.01	PASS
		5200	12.53	≤23.98	15.30	≤23.01	PASS
		5240	12.11	≤23.98	14.88	≤23.01	PASS
11N20SISO	Ant1	5180	12.78	≤23.98	15.55	≤23.01	PASS
		5200	12.28	≤23.98	15.05	≤23.01	PASS
		5240	12.32	≤23.98	15.09	≤23.01	PASS

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

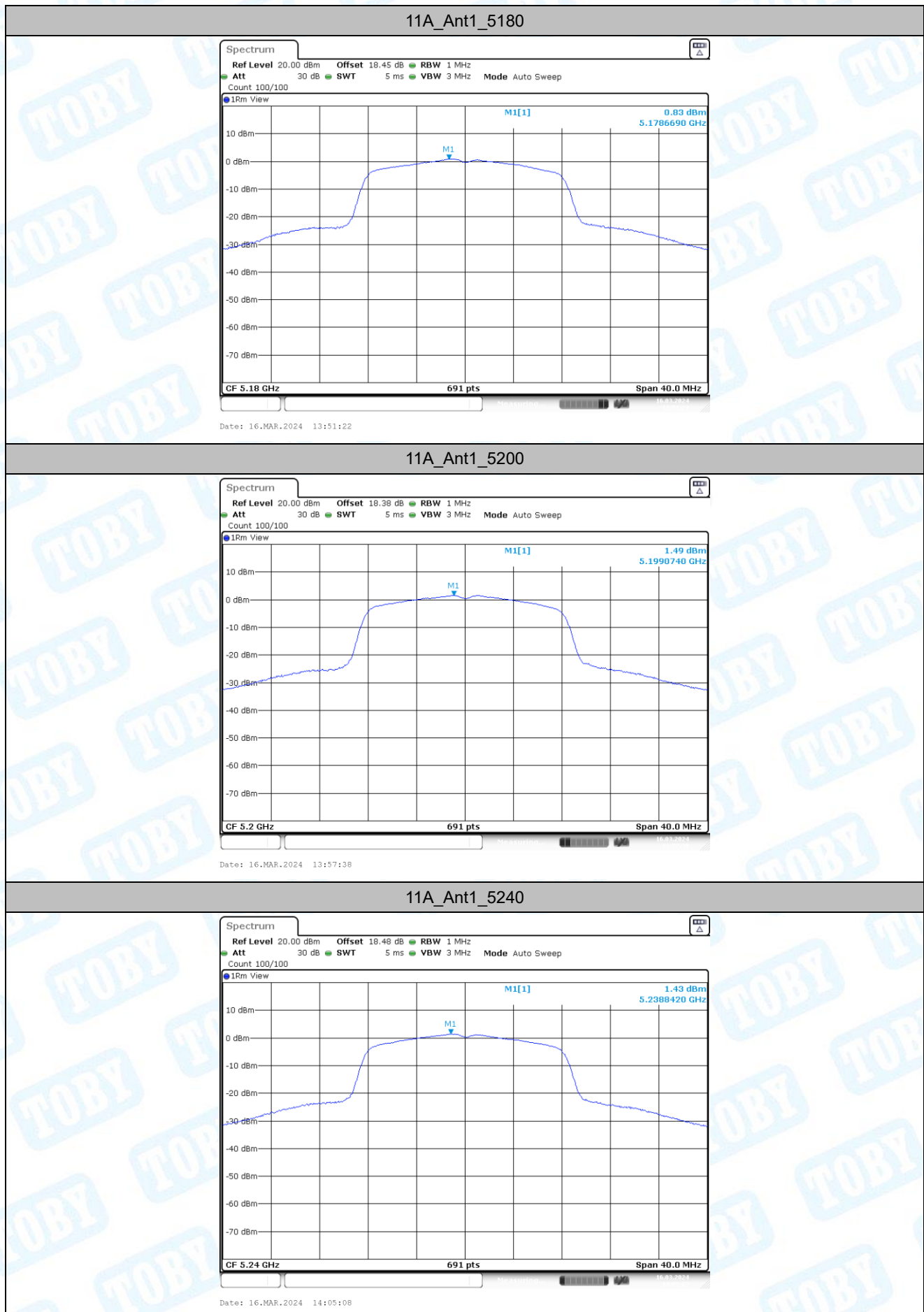
4. Maximum power spectral density

4.1. Test Result

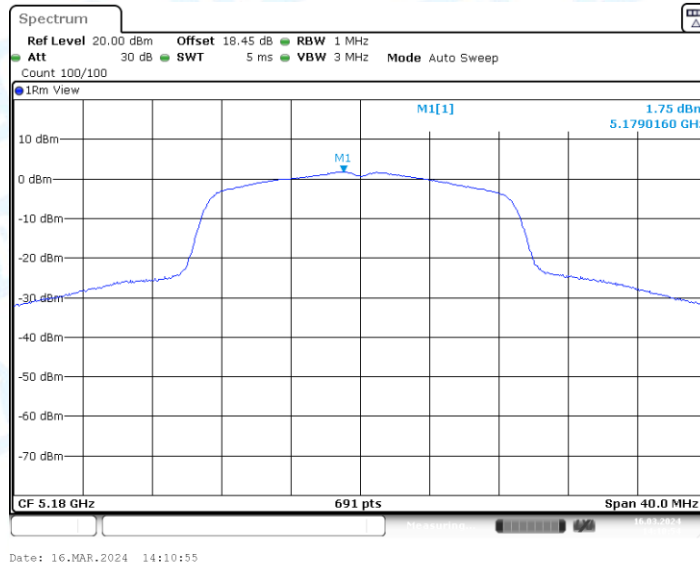
TestMode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	1.81	≤11.00	4.58	≤10.00	PASS
		5200	2.45	≤11.00	5.22	≤10.00	PASS
		5240	2.41	≤11.00	5.18	≤10.00	PASS
11N20SISO	Ant1	5180	2.77	≤11.00	5.54	≤10.00	PASS
		5200	1.51	≤11.00	4.28	≤10.00	PASS
		5240	2.44	≤11.00	5.21	≤10.00	PASS

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

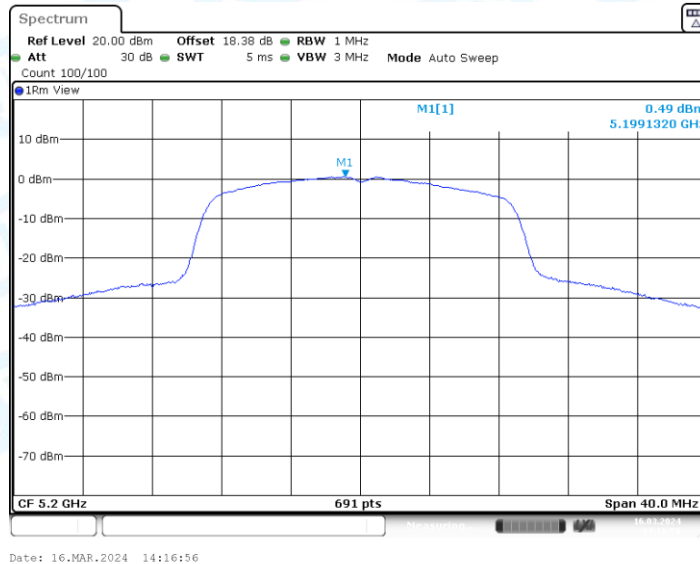
4.2. Test Graphs



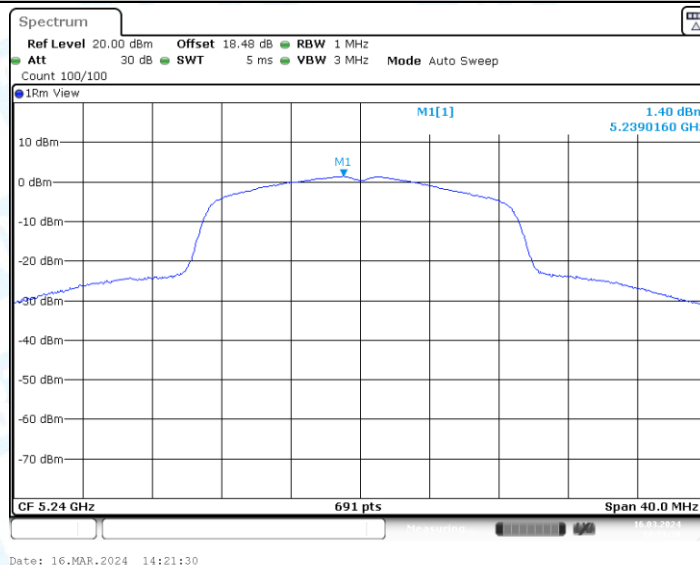
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240

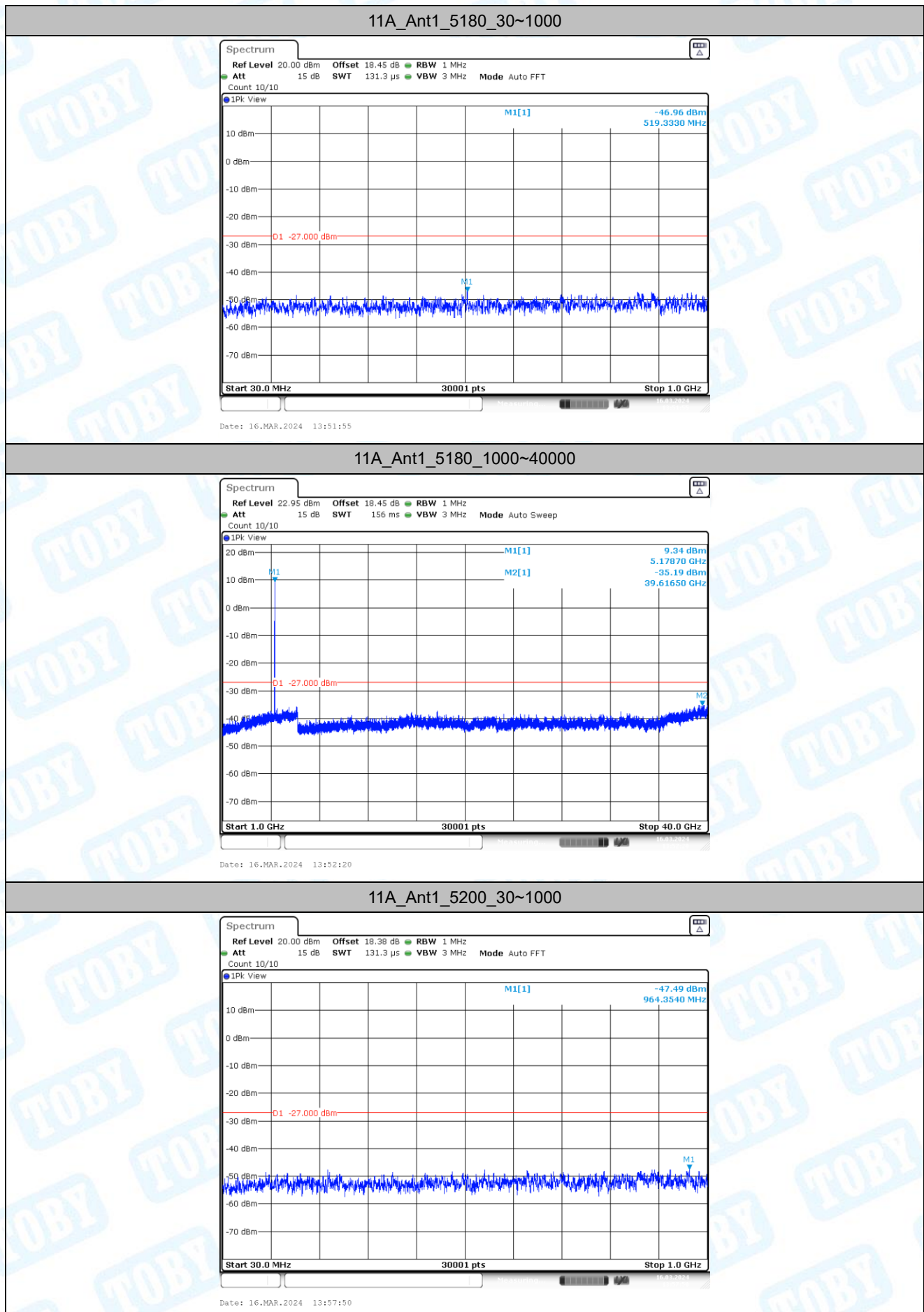


5. Conducted Spurious Emission

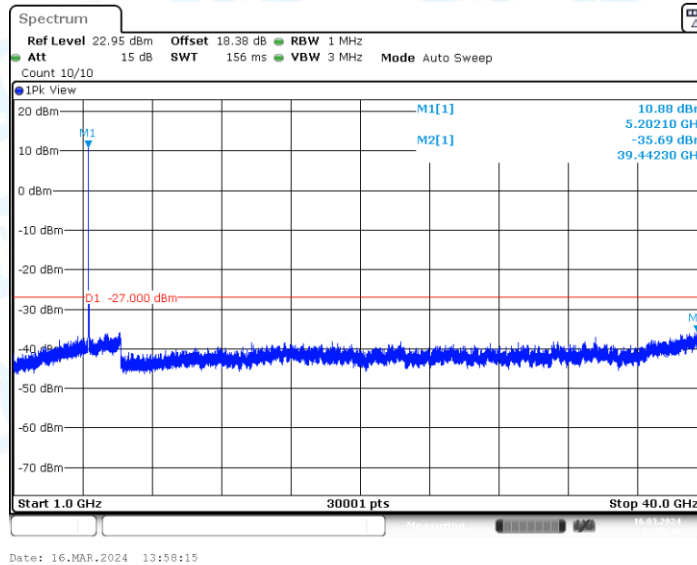
5.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~1000	519.33	-46.96	≤-27	PASS
			1000~40000	39616.5	-35.19	≤-27	PASS
		5200	30~1000	964.35	-47.49	≤-27	PASS
			1000~40000	39442.3	-35.69	≤-27	PASS
		5240	30~1000	510.76	-46.20	≤-27	PASS
			1000~40000	39008.1	-35.01	≤-27	PASS
11N20SISO	Ant1	5180	30~1000	118.67	-45.97	≤-27	PASS
			1000~40000	40000	-35.00	≤-27	PASS
		5200	30~1000	859.99	-46.23	≤-27	PASS
			1000~40000	38952.2	-34.86	≤-27	PASS
		5240	30~1000	888.41	-46.21	≤-27	PASS
			1000~40000	39595.7	-34.81	≤-27	PASS

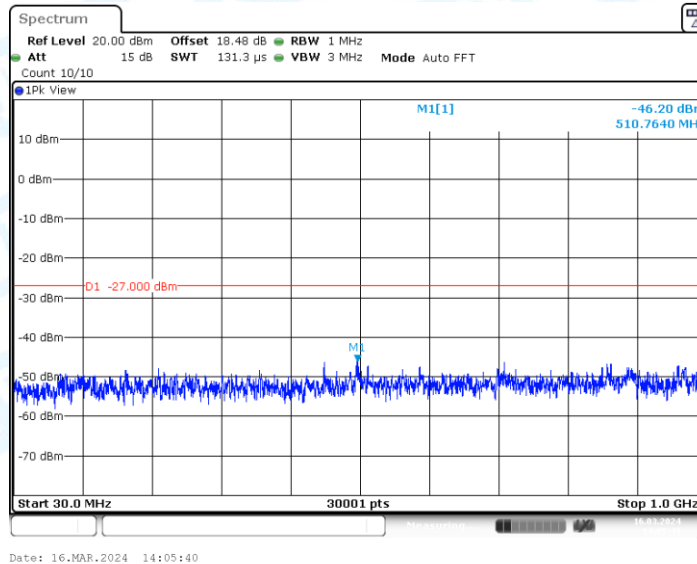
5.2. Test Graphs



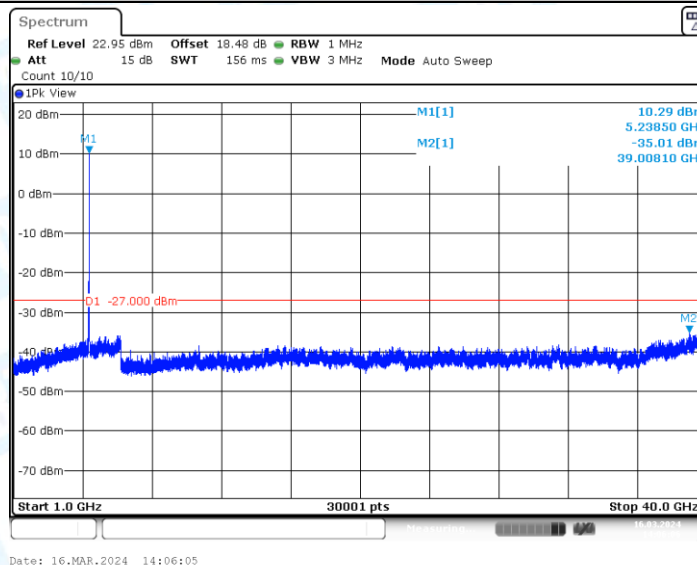
11A_Ant1_5200_1000~40000



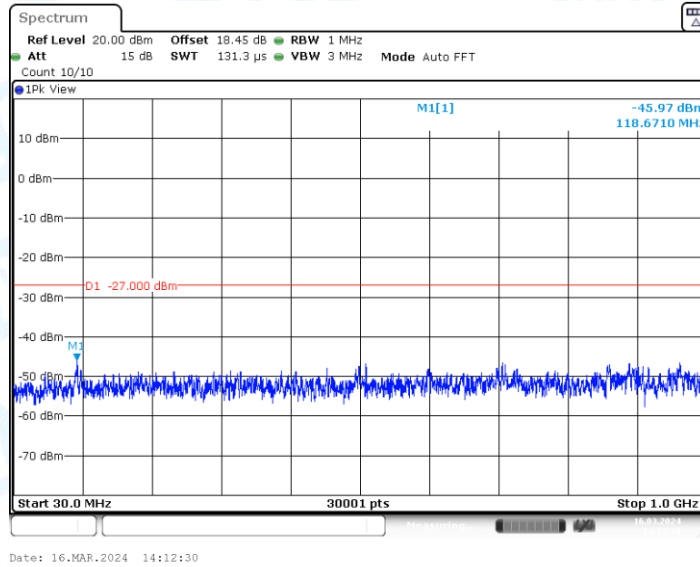
11A_Ant1_5240_30~1000



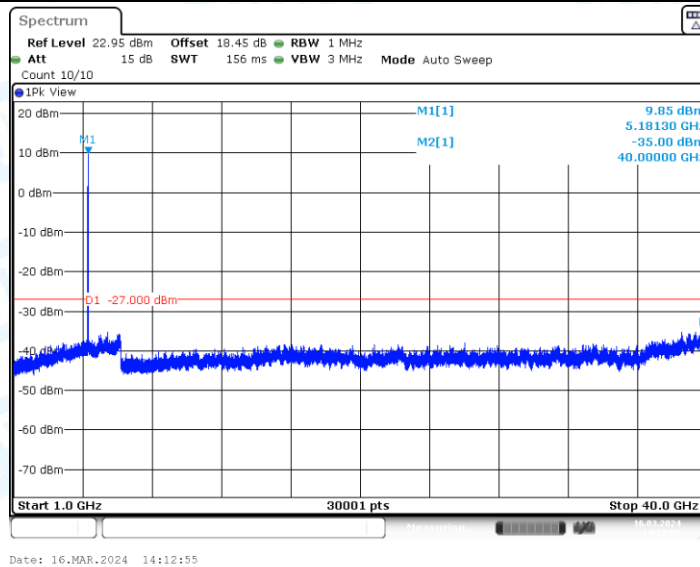
11A_Ant1_5240_1000~40000



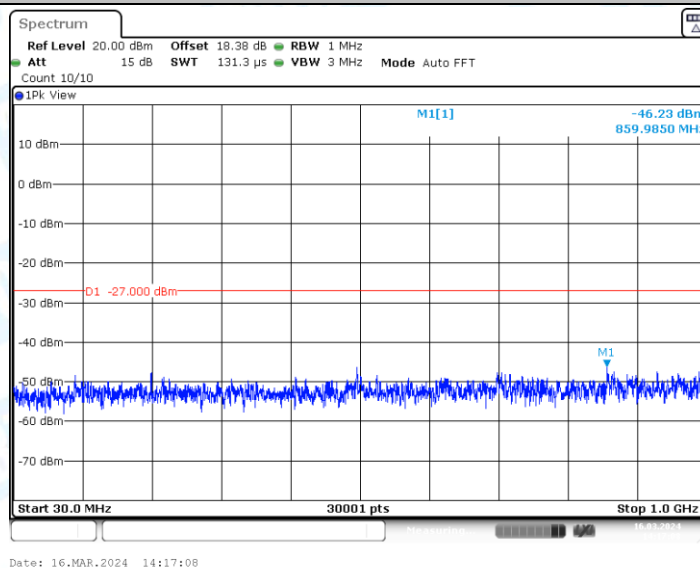
11N20SiSO_Ant1_5180_30~1000



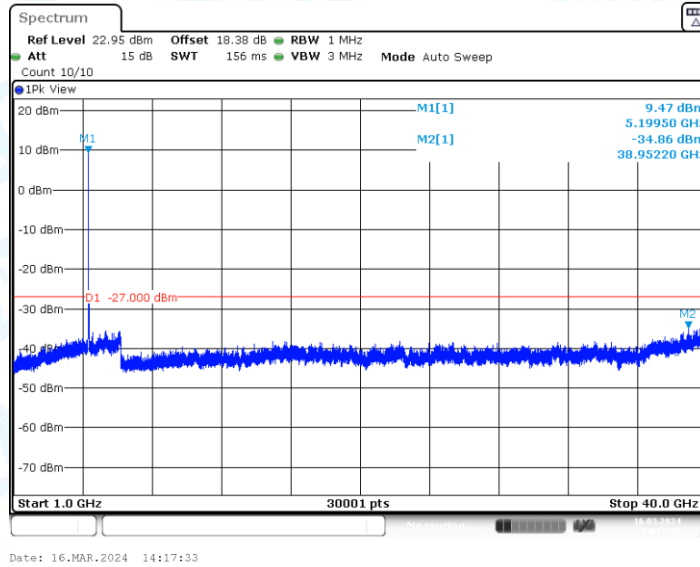
11N20SISO_Ant1_5180_1000~40000



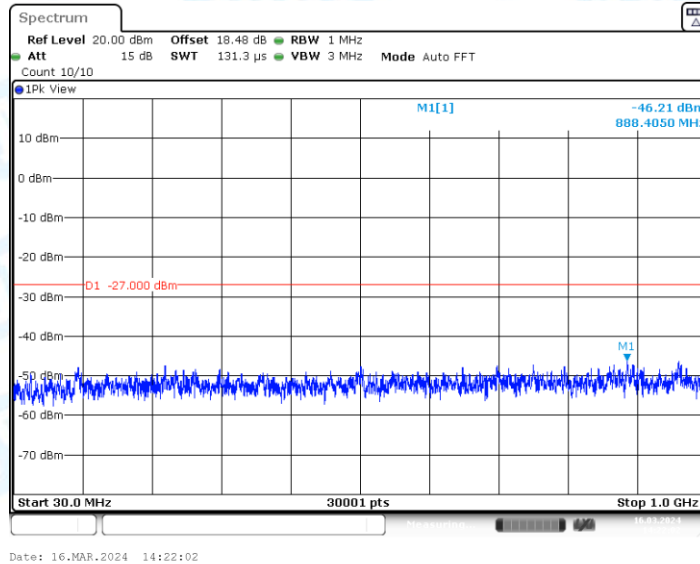
11N20SISO_Ant1_5200_30~1000



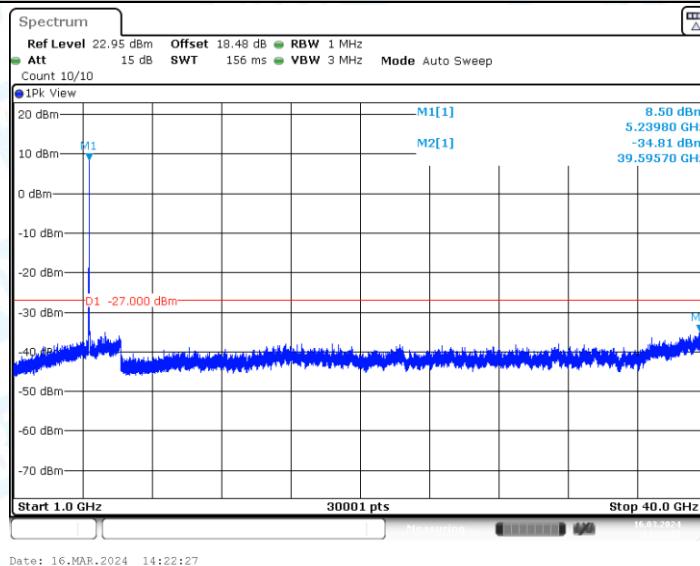
11N20SISO_Ant1_5200_1000~40000



11N20SISO_Ant1_5240_30~1000



11N20SISO_Ant1_5240_1000~40000



6. Frequency Stability

6.1. Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	60000.00	11.450382	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
11N20SISO	Ant1	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
		5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
		5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	20000.00	3.816794	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	45	0.00	0.000000	20	PASS
		5200	NV	0	20000.00	3.846154	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	45	20000.00	3.846154	20	PASS
		5240	NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	45	20000.00	3.816794	20	PASS
11N20SISO	Ant1	5180	NV	0	20000.00	3.861004	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS

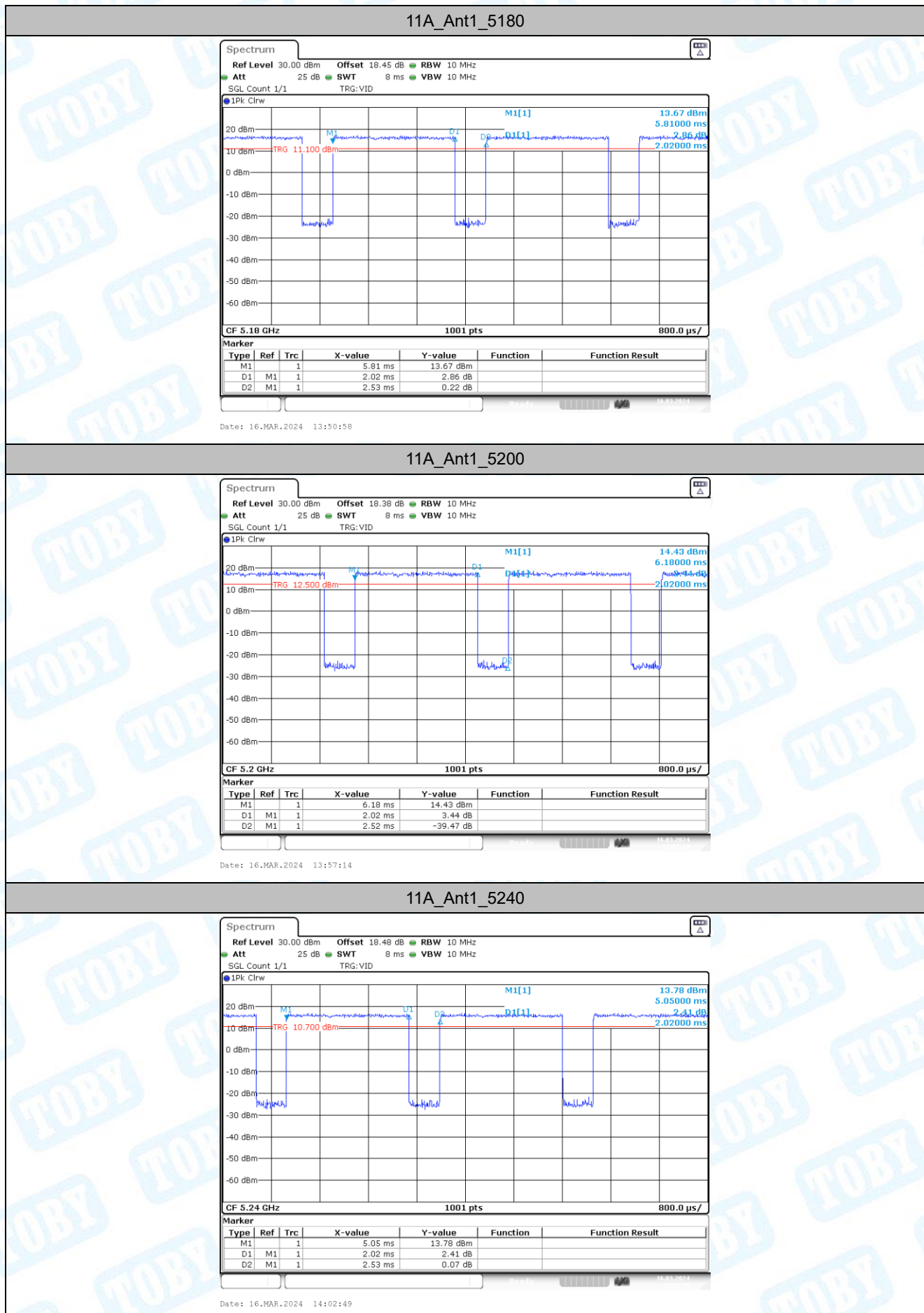
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	45	20000.00	3.861004	20	PASS
		5200	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	45	20000.00	3.846154	20	PASS
		5240	NV	0	20000.00	3.816794	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	45	20000.00	3.816794	20	PASS

7. Duty Cycle

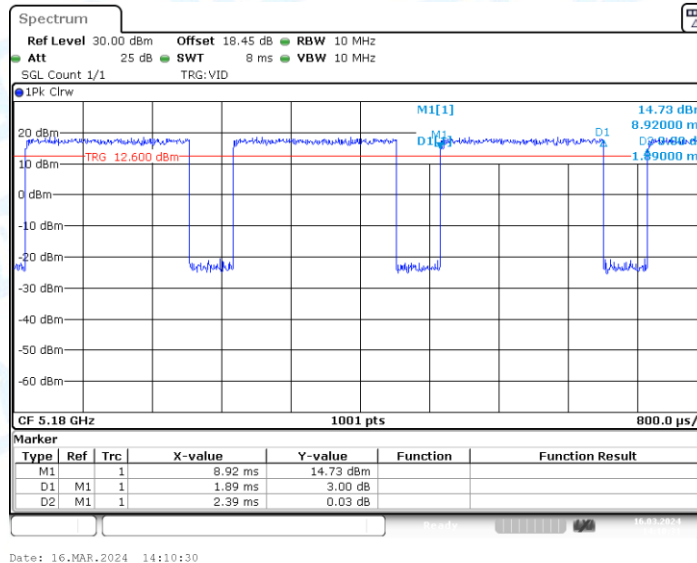
7.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]	Limit	Verdict
11A	Ant1	5180	2.02	2.53	79.84	0.49505	---	---
		5200	2.02	2.52	80.16	0.49505	---	---
		5240	2.02	2.53	79.84	0.49505	---	---
11N20SISO	Ant1	5180	1.89	2.39	79.08	0.529101	---	---
		5200	1.89	2.39	79.08	0.529101	---	---
		5240	1.89	2.40	78.75	0.529101	---	---

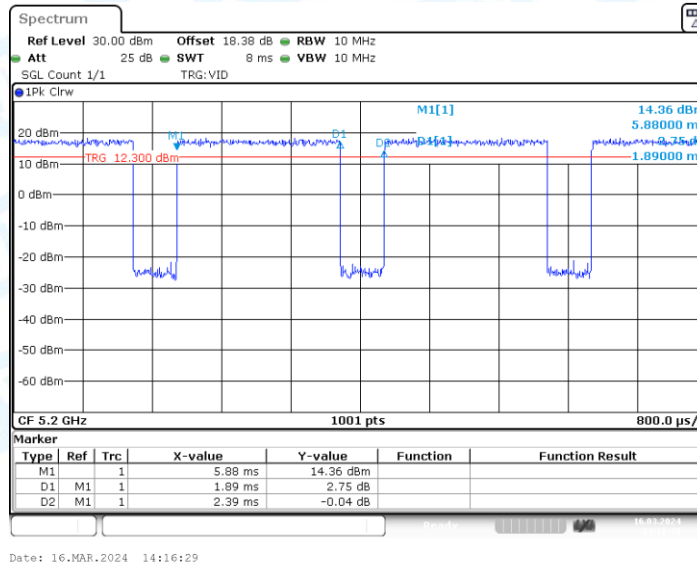
7.2. Test Graphs



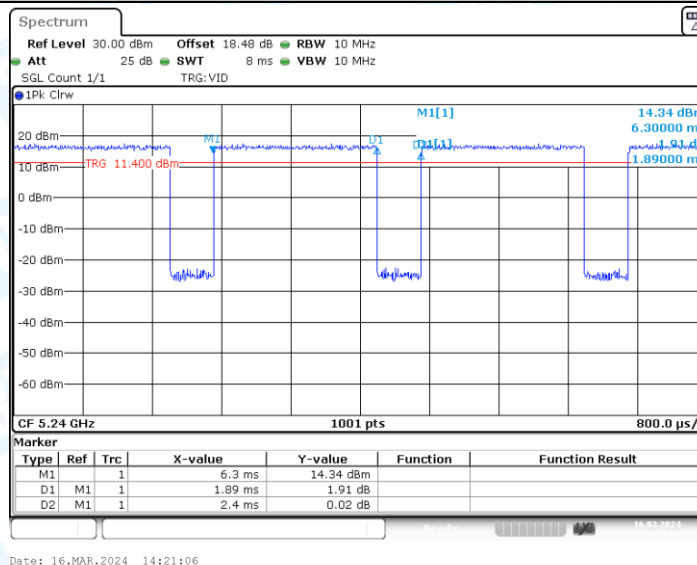
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



-----End of the report-----