

RF Test Data for Bluetooth (BR+EDR) (Conducted Measurements)

General Description of EUT	
Product Name:	Portable Gaming Computer(Tablet computer)
Test Model:	AYANEO FLIP
Sample ID:	HC-C-202312-0316-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 11.55V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202312-0316-16	

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1. 20dB Emission Bandwidth

1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.96	---	---
		2441	0.95	---	---
		2480	0.96	---	---
2DH5	Ant1	2402	1.47	---	---
		2441	1.47	---	---
		2480	1.47	---	---
3DH5	Ant1	2402	1.48	---	---
		2441	1.49	---	---
		2480	1.48	---	---

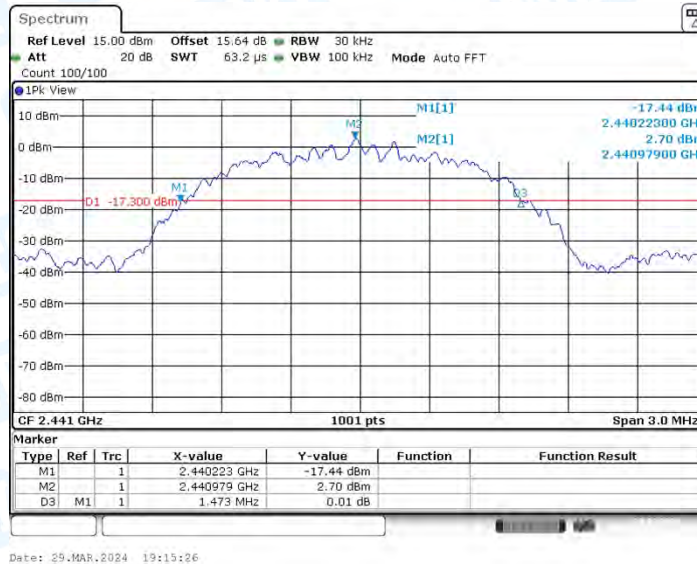
1.2. Test Graphs



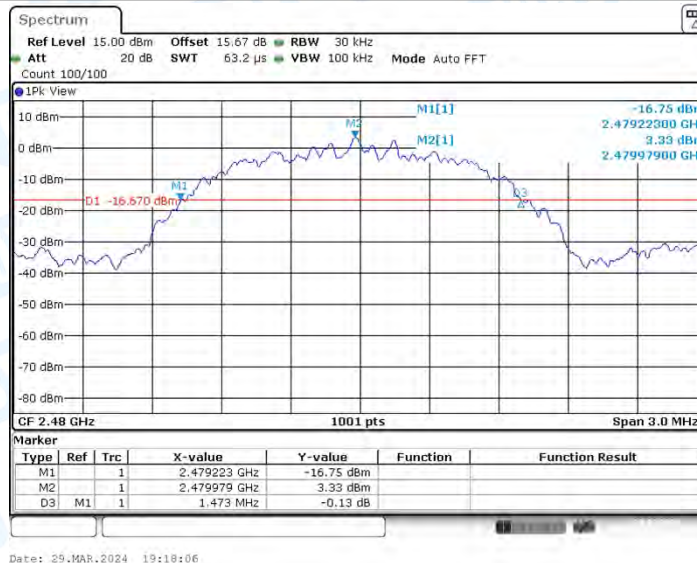
2DH5_Ant1_2402



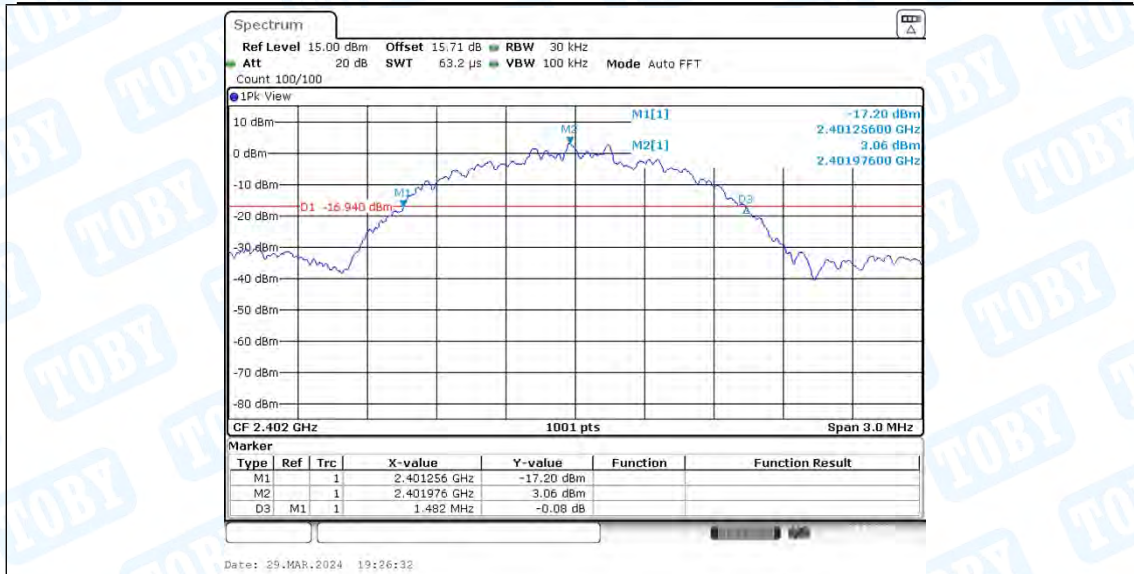
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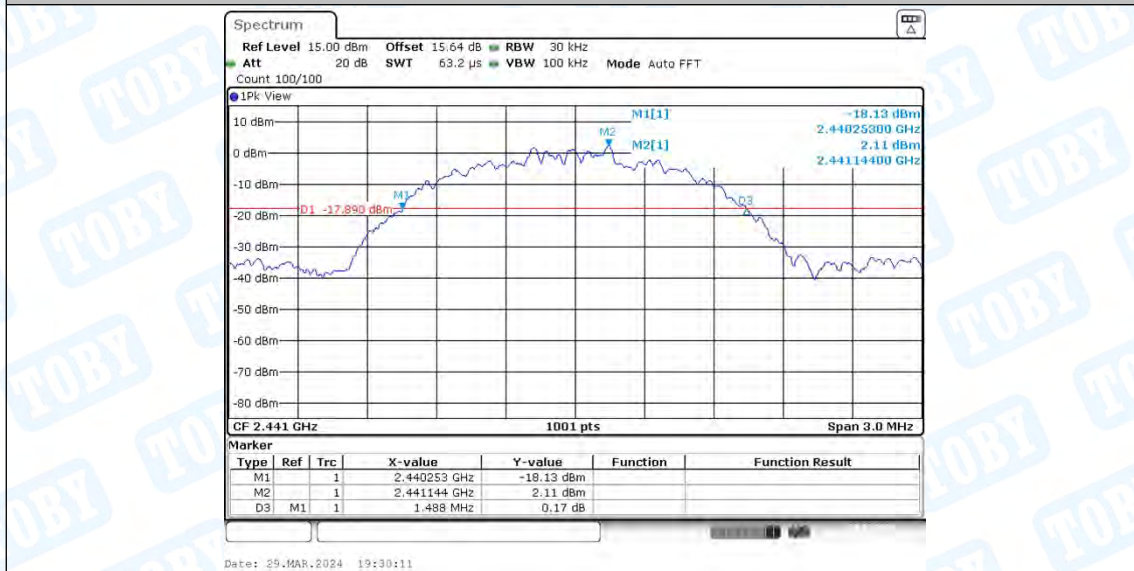
2DH5_Ant1_2480



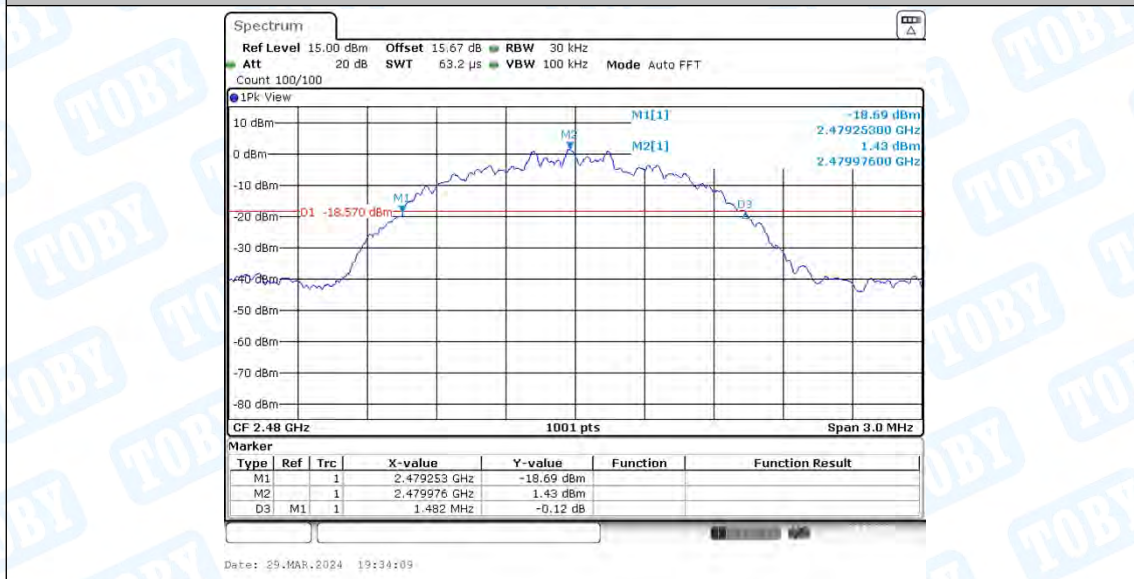
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



2. Occupied Channel Bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.887	2401.5385	2402.4256	---	---
		2441	0.878	2440.5445	2441.4226	---	---
		2480	0.878	2479.5415	2480.4196	---	---
2DH5	Ant1	2402	1.358	2401.2987	2402.6563	---	---
		2441	1.358	2440.3017	2441.6593	---	---
		2480	1.358	2479.2987	2480.6563	---	---
3DH5	Ant1	2402	1.346	2401.3047	2402.6503	---	---
		2441	1.349	2440.3077	2441.6563	---	---
		2480	1.343	2479.3047	2480.6474	---	---

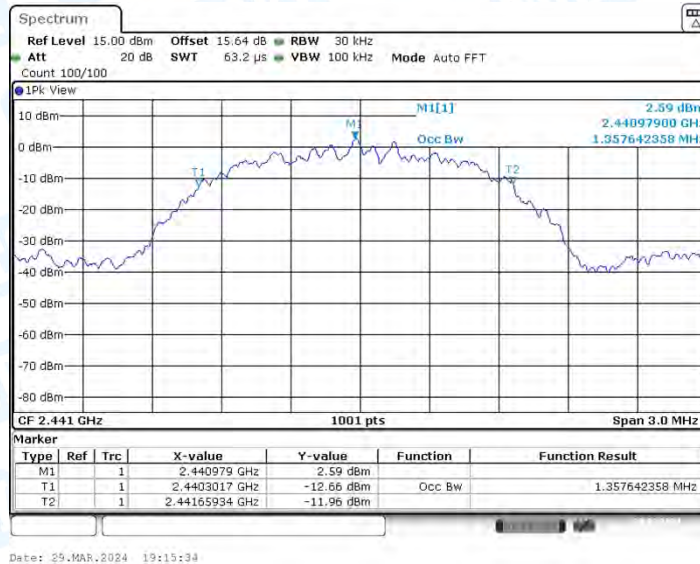
2.2.Test Graphs



2DH5_Ant1_2402



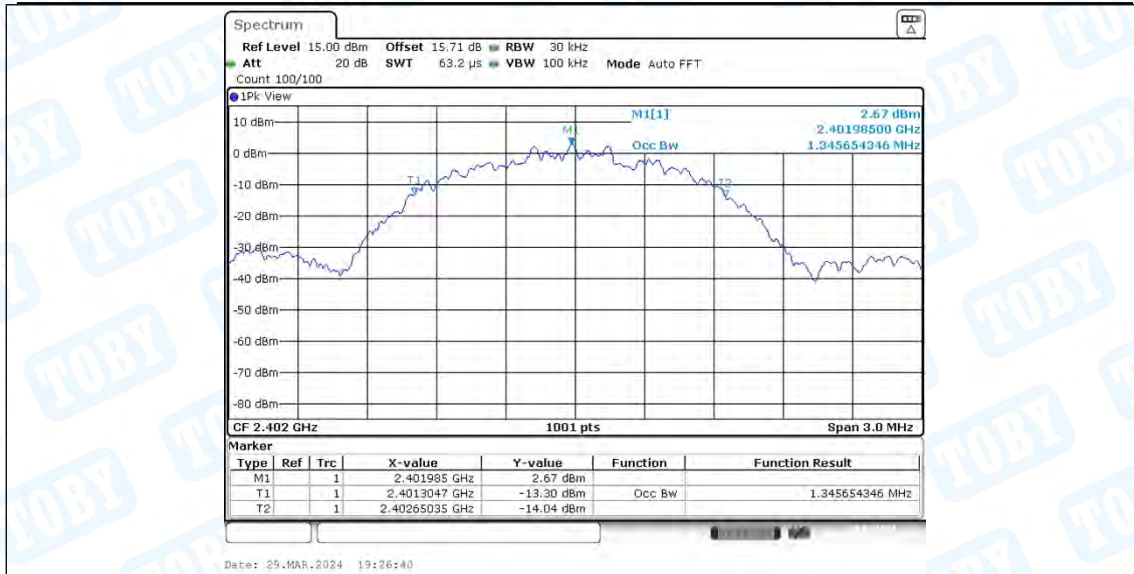
2DH5_Ant1_2441



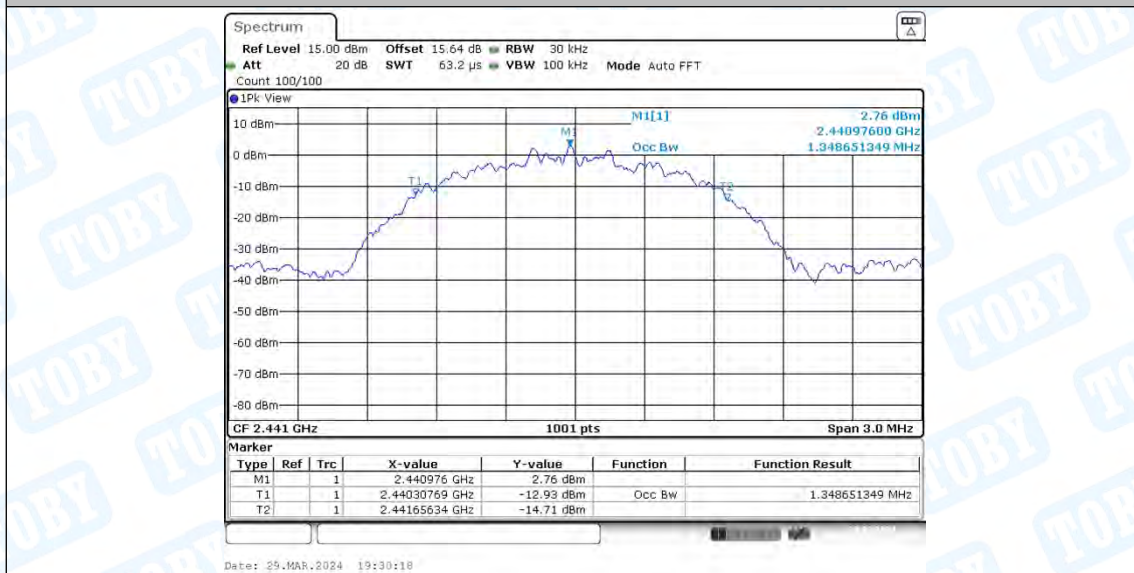
2DH5_Ant1_2480



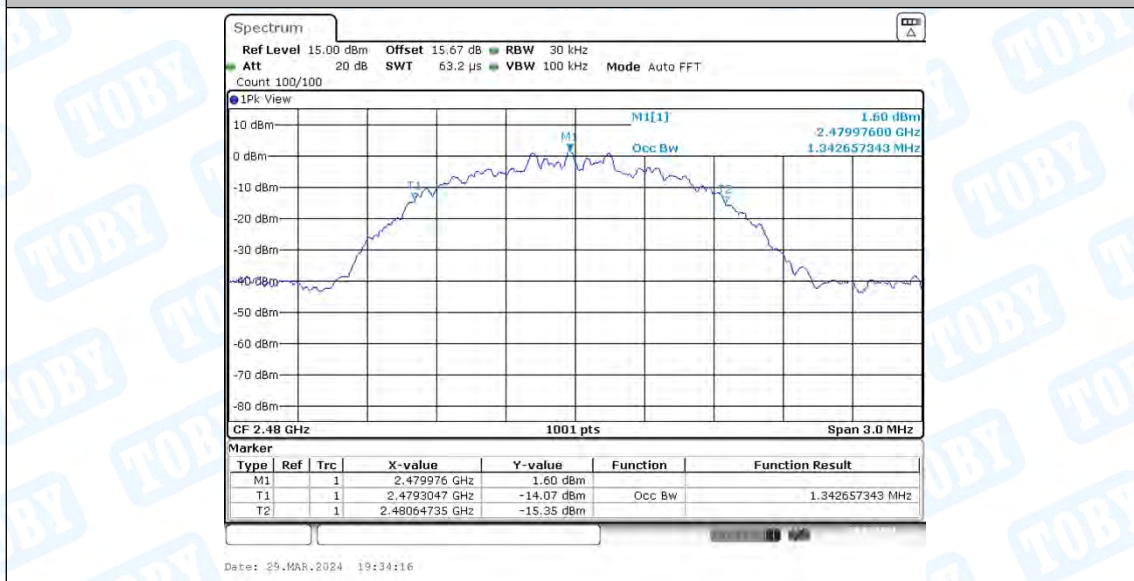
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



3. Maximum conducted output power

3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.70	≤21	PASS
		2441	6.40	≤21	PASS
		2480	6.14	≤21	PASS
2DH5	Ant1	2402	5.78	≤21	PASS
		2441	5.32	≤21	PASS
		2480	6.23	≤21	PASS
3DH5	Ant1	2402	5.90	≤21	PASS
		2441	5.34	≤21	PASS
		2480	6.29	≤21	PASS

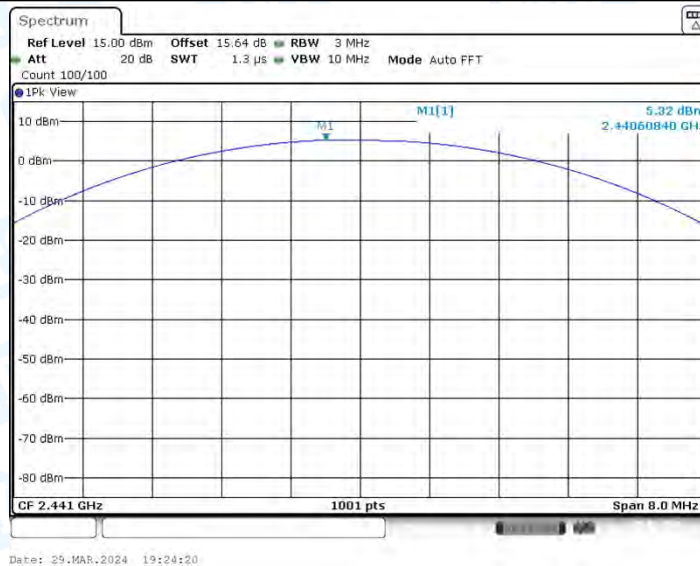
3.2. Test Graphs



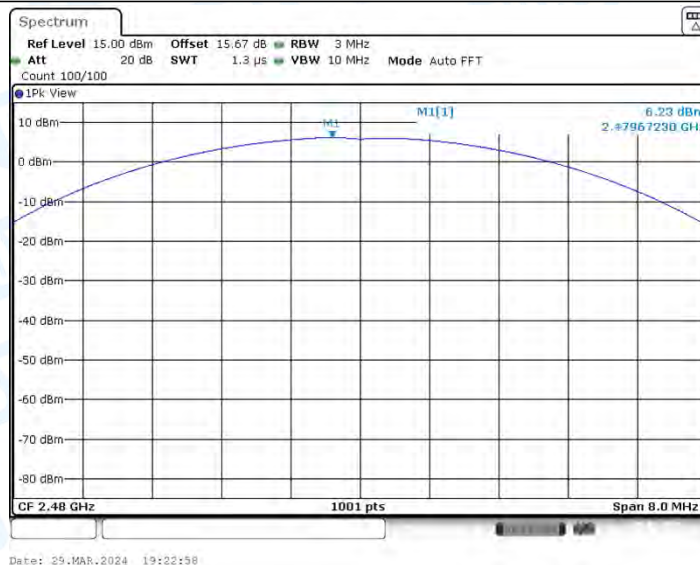
2DH5_Ant1_2402



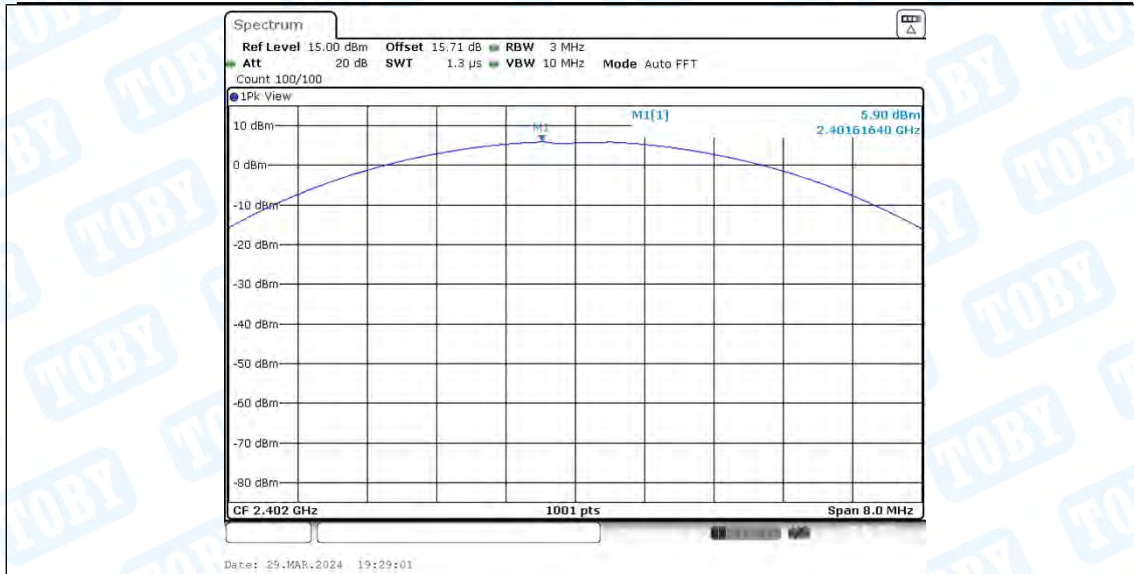
2DH5_Ant1_2441



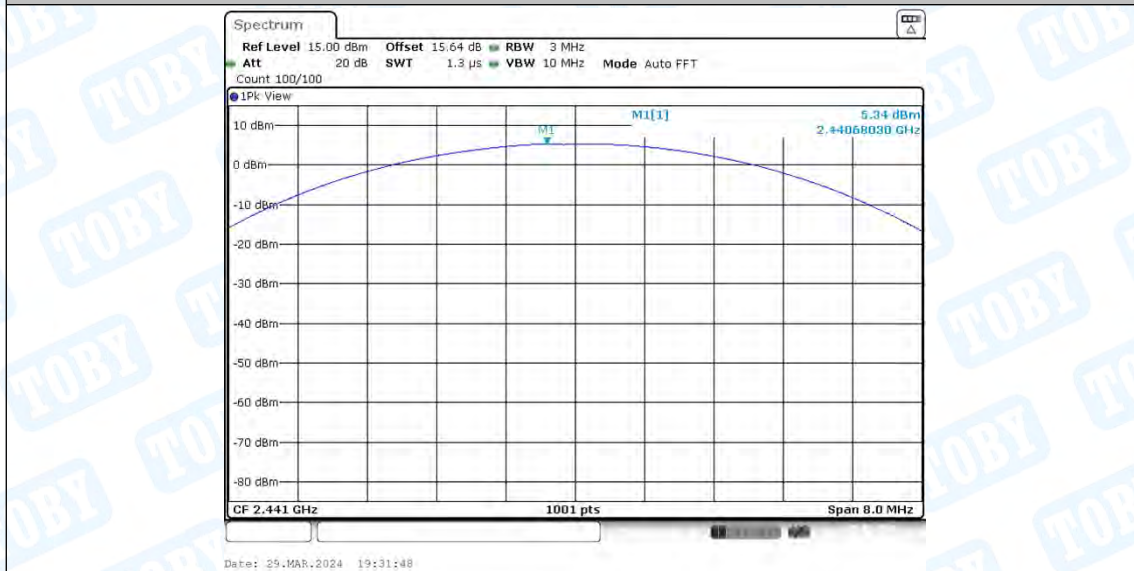
2DH5_Ant1_2480



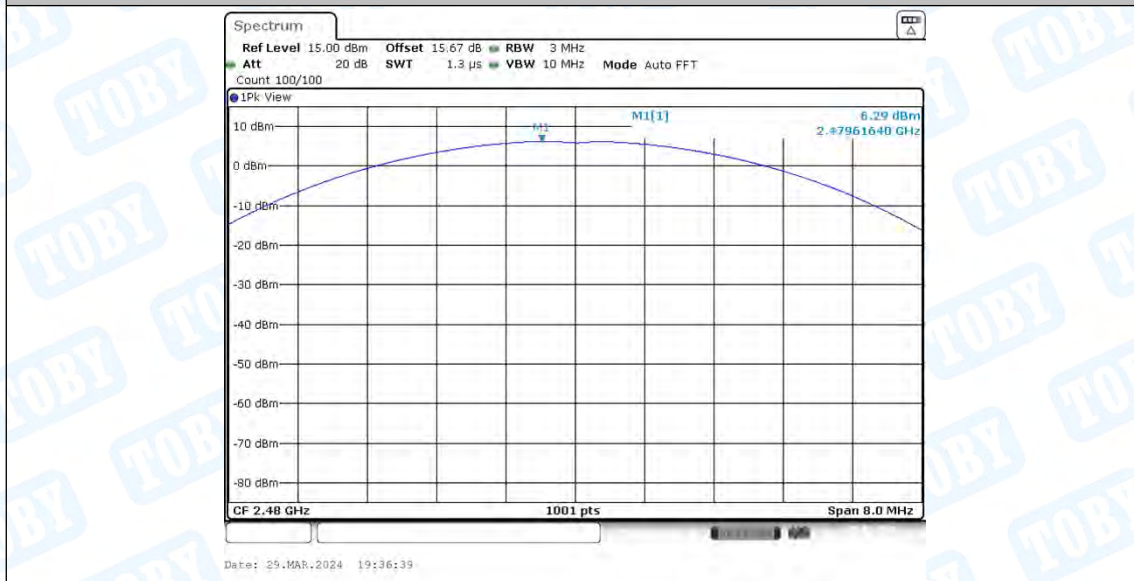
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



4. Carrier frequency separation

4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.997	≥0.640	PASS
2DH5	Ant1	Hop	1.287	≥0.980	PASS
3DH5	Ant1	Hop	1.180	≥0.993	PASS

4.2. Test Graphs

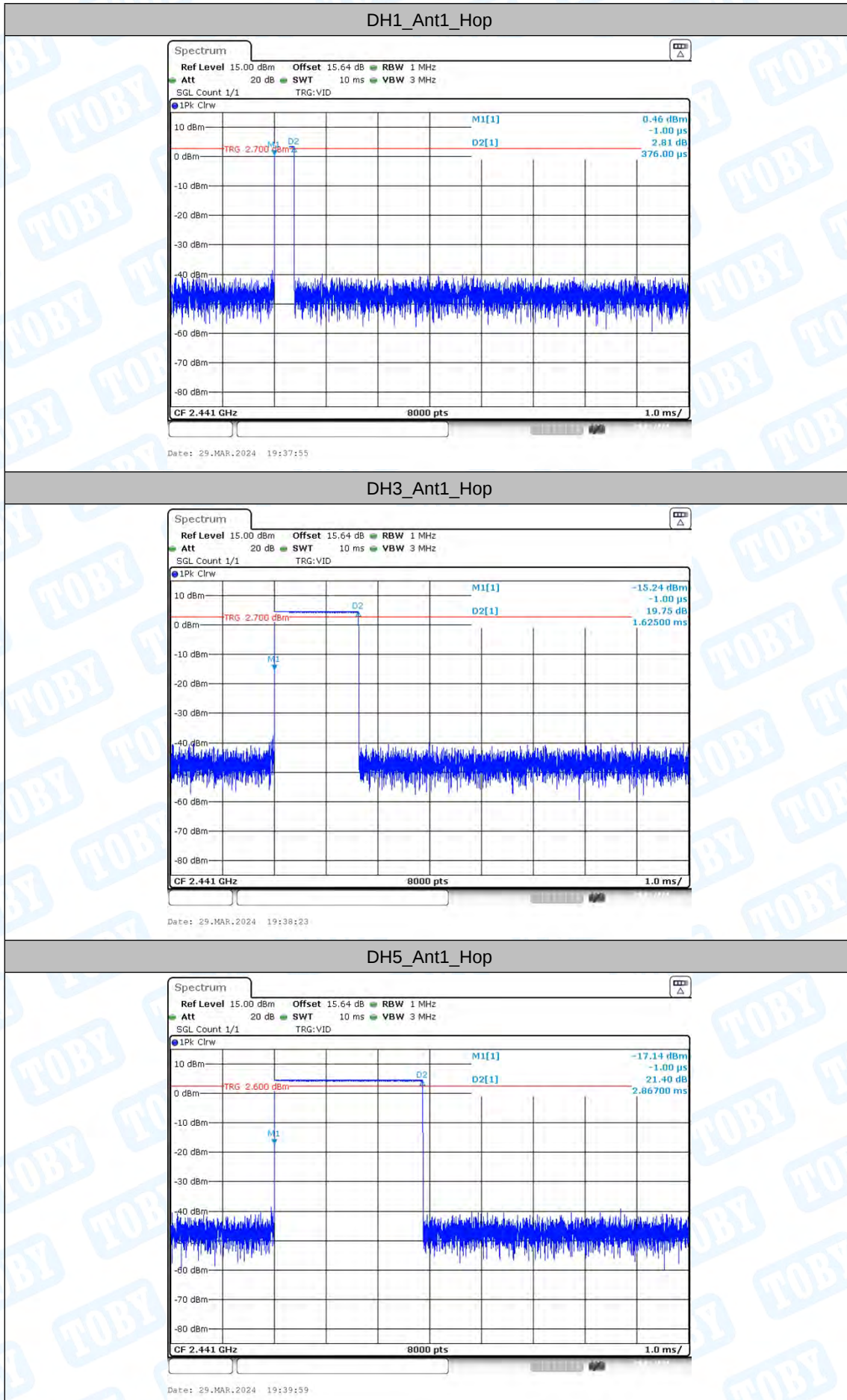


5. Time of occupancy

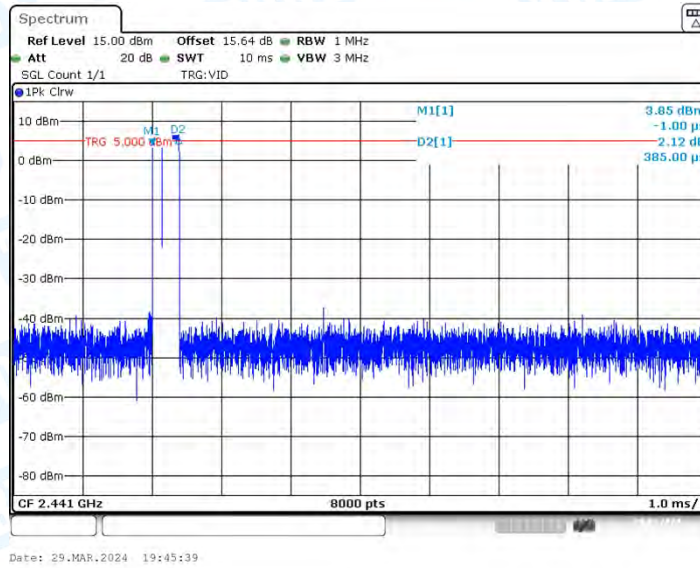
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.376	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.625	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.867	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.385	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.630	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.870	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.385	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.628	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.872	106.67	0.306	≤0.4	PASS

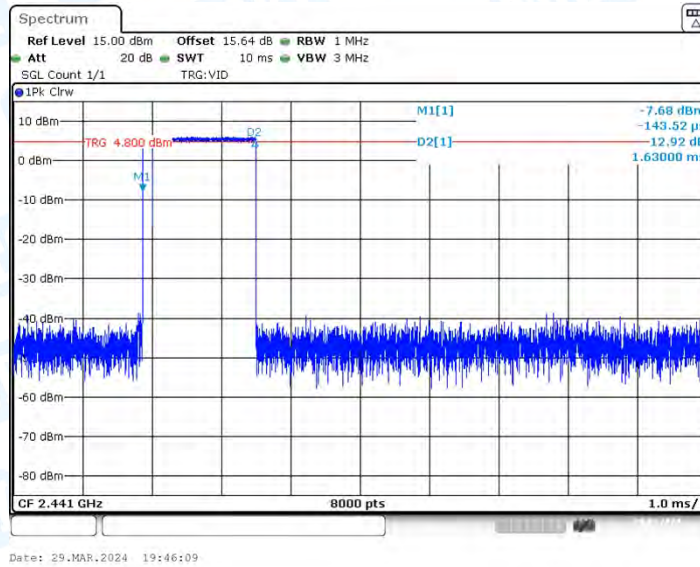
5.2.Test Graphs



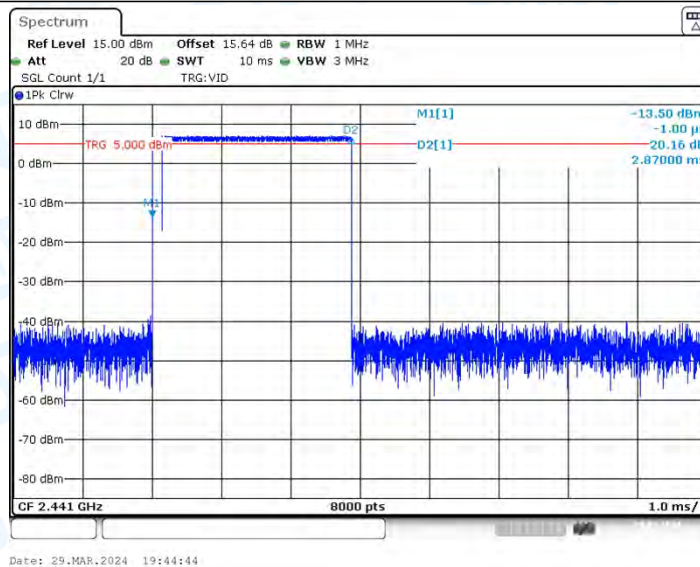
2DH1_Ant1_Hop



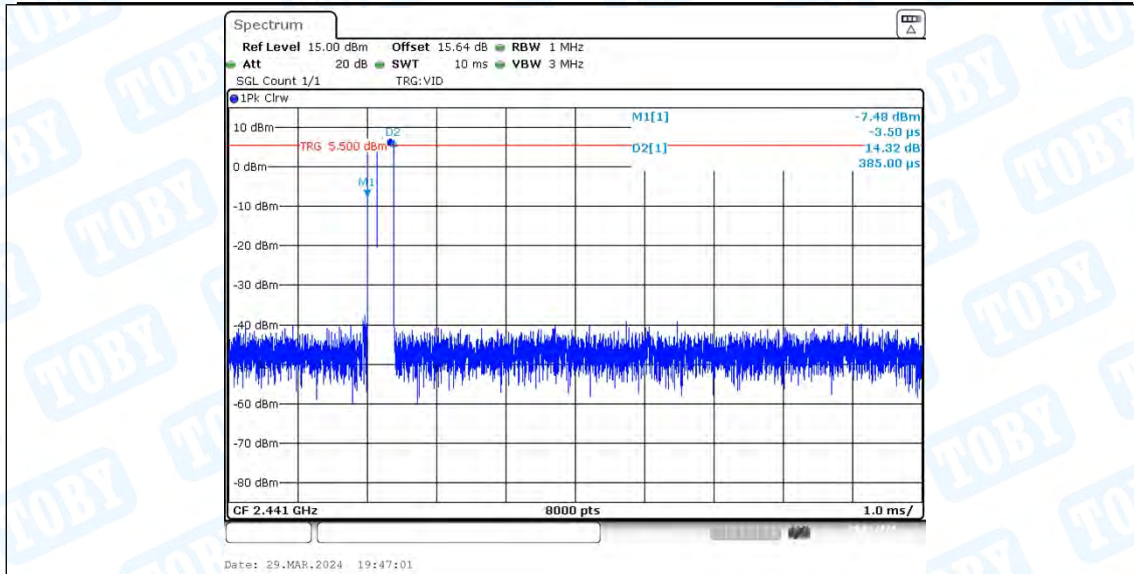
2DH3_Ant1_Hop



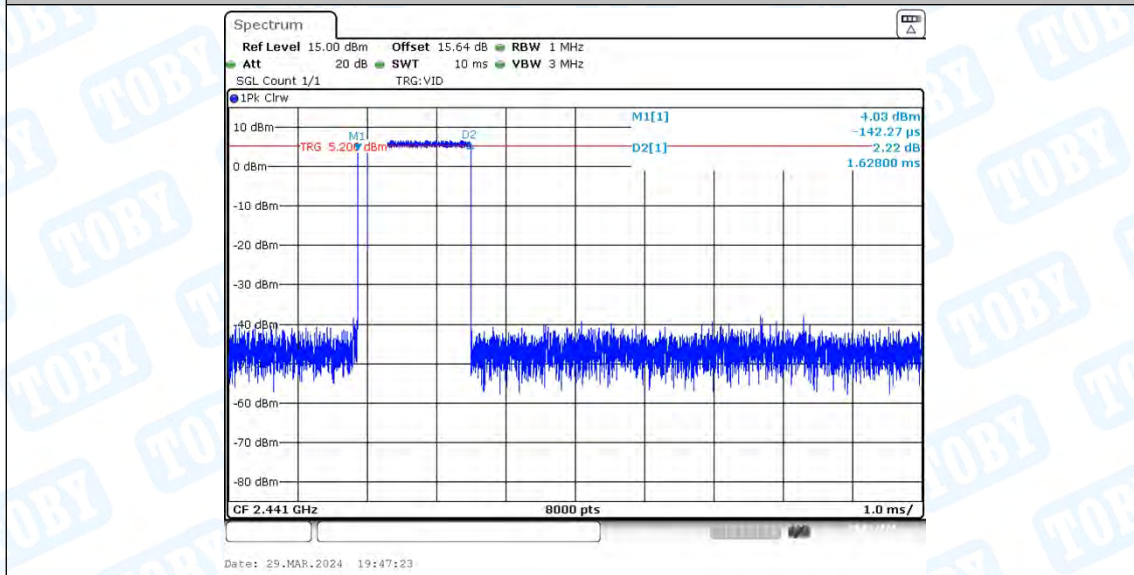
2DH5_Ant1_Hop



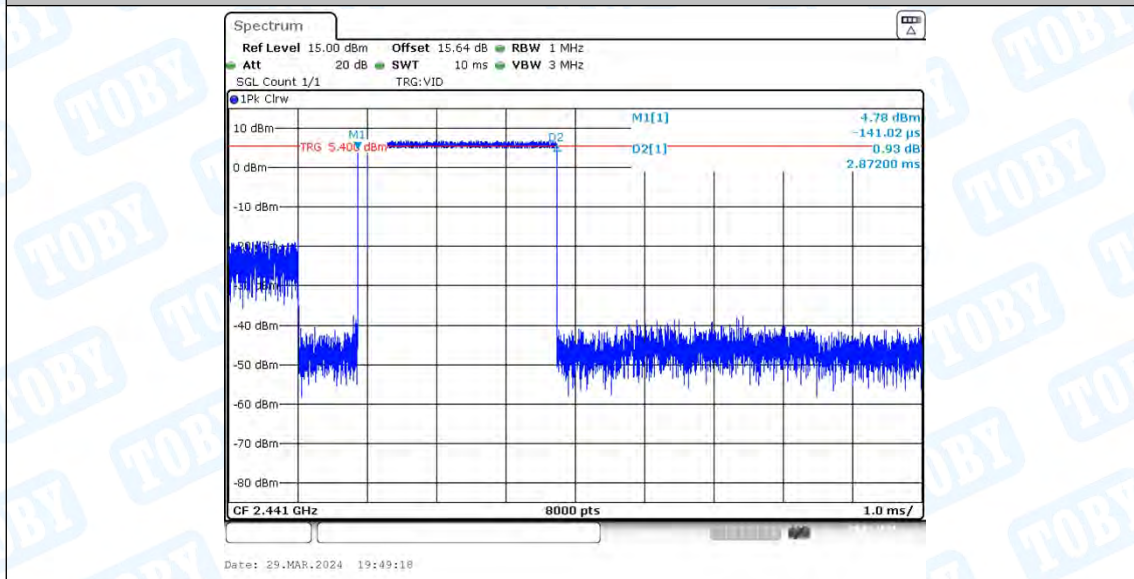
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop



6. Number of hopping channels

6.1. Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

6.2.Test Graphs

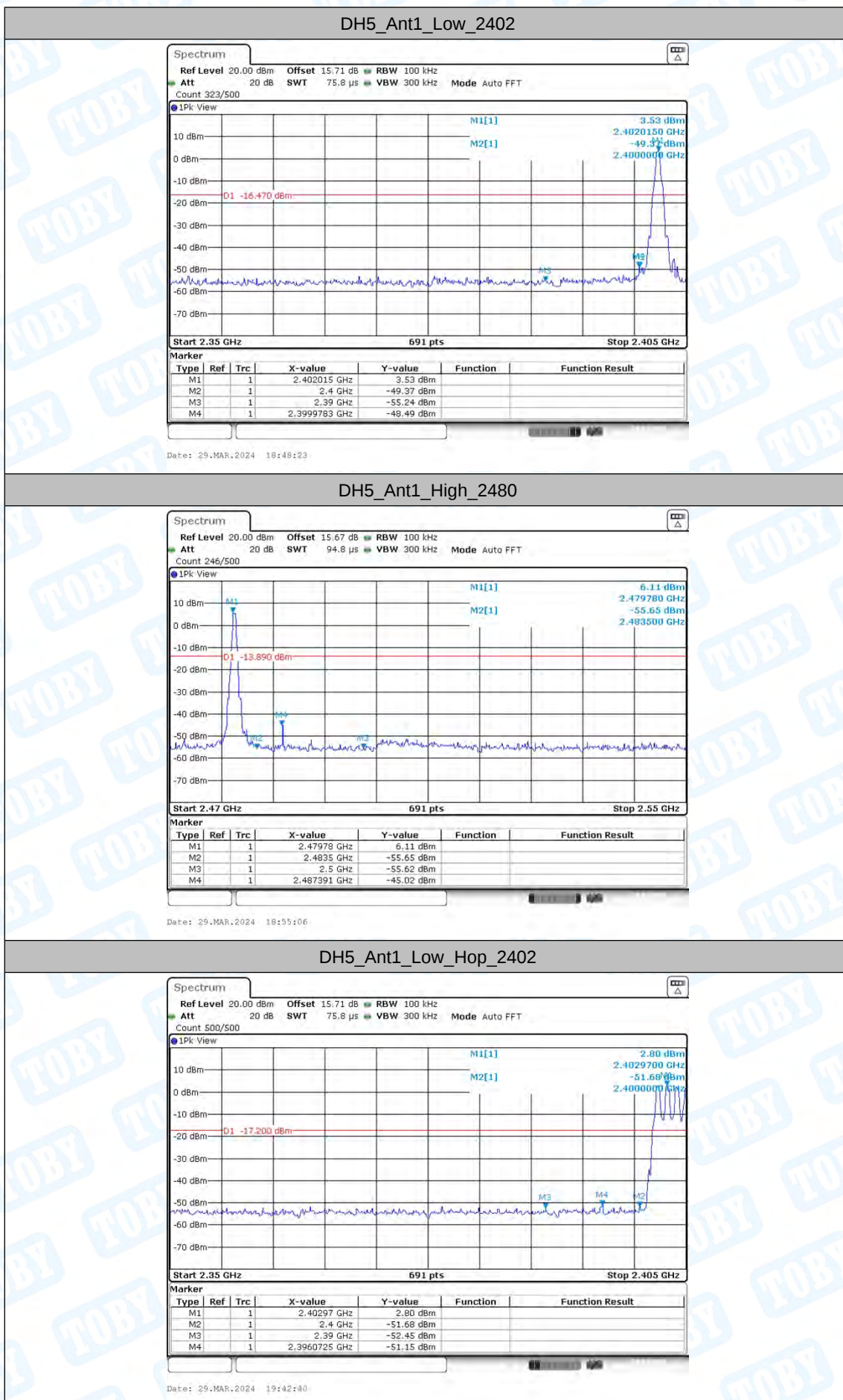


7. Band edge measurements

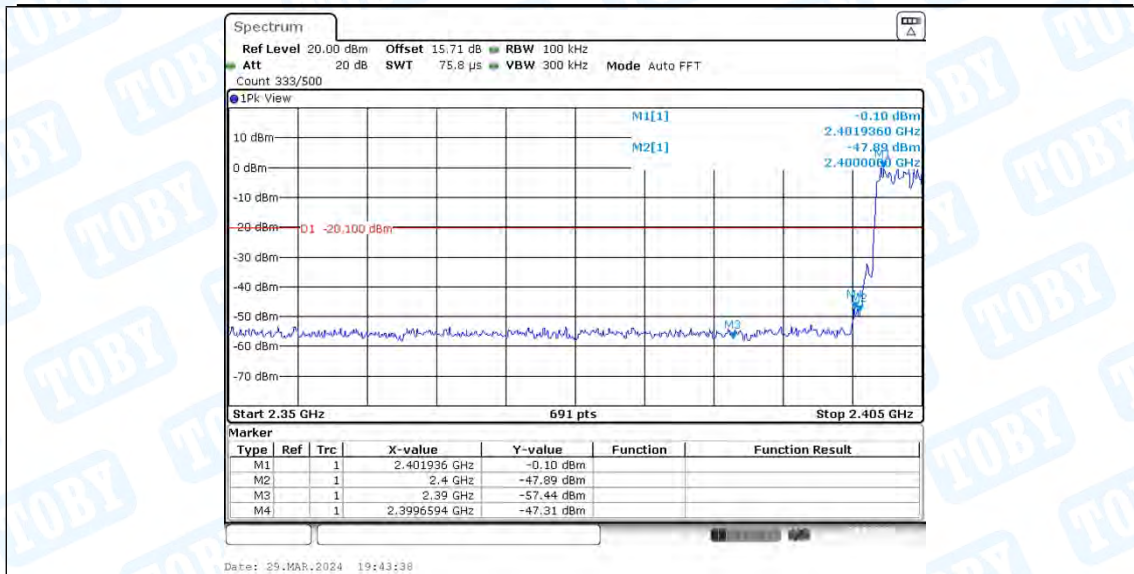
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.53	-48.49	≤-16.47	PASS
		High	2480	6.11	-45.02	≤-13.89	PASS
		Low	Hop_2402	2.80	-51.15	≤-17.2	PASS
		High	Hop_2480	4.36	-50.92	≤-15.64	PASS
2DH5	Ant1	Low	2402	5.66	-40.02	≤-14.34	PASS
		High	2480	5.45	-50.87	≤-14.55	PASS
		Low	Hop_2402	-0.10	-47.31	≤-20.1	PASS
		High	Hop_2480	3.75	-51.59	≤-16.25	PASS
3DH5	Ant1	Low	2402	2.62	-43.06	≤-17.38	PASS
		High	2480	3.95	-44.24	≤-16.05	PASS
		Low	Hop_2402	2.46	-48.6	≤-17.54	PASS
		High	Hop_2480	4.09	-50.44	≤-15.91	PASS

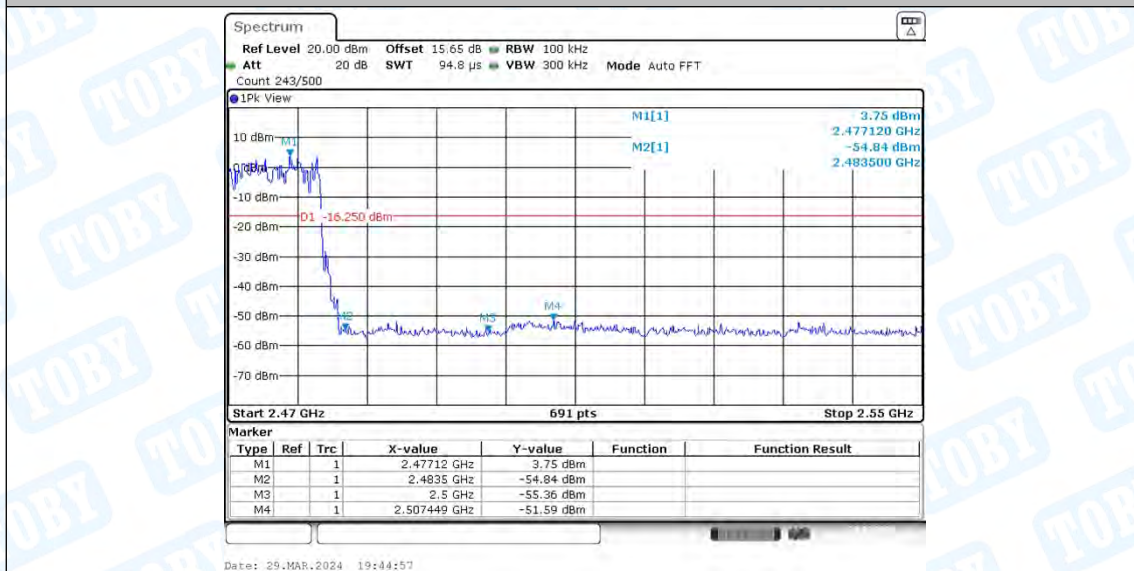
7.2. Test Graphs



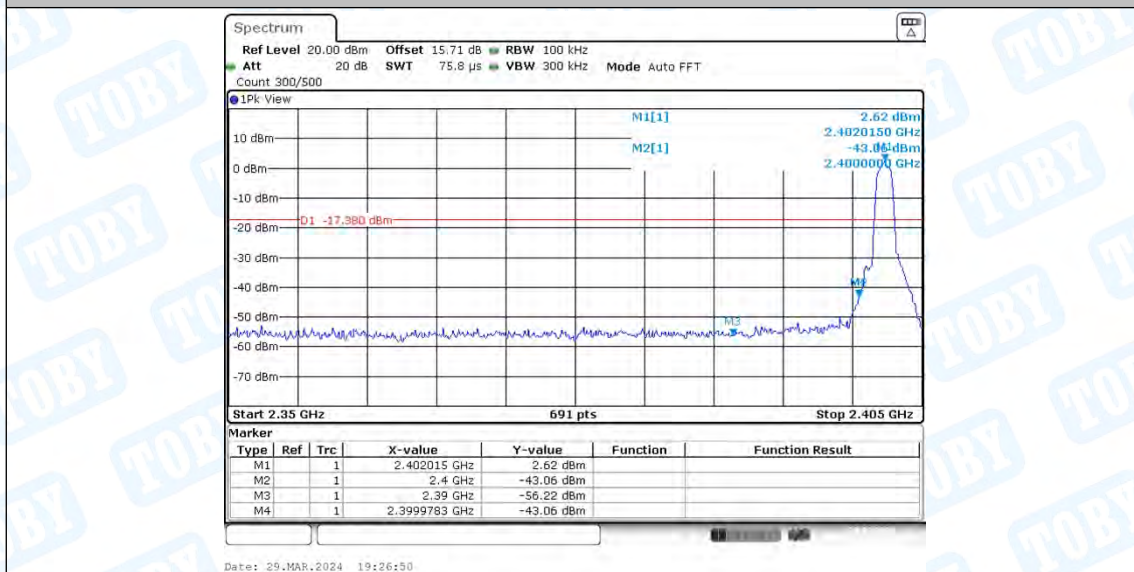




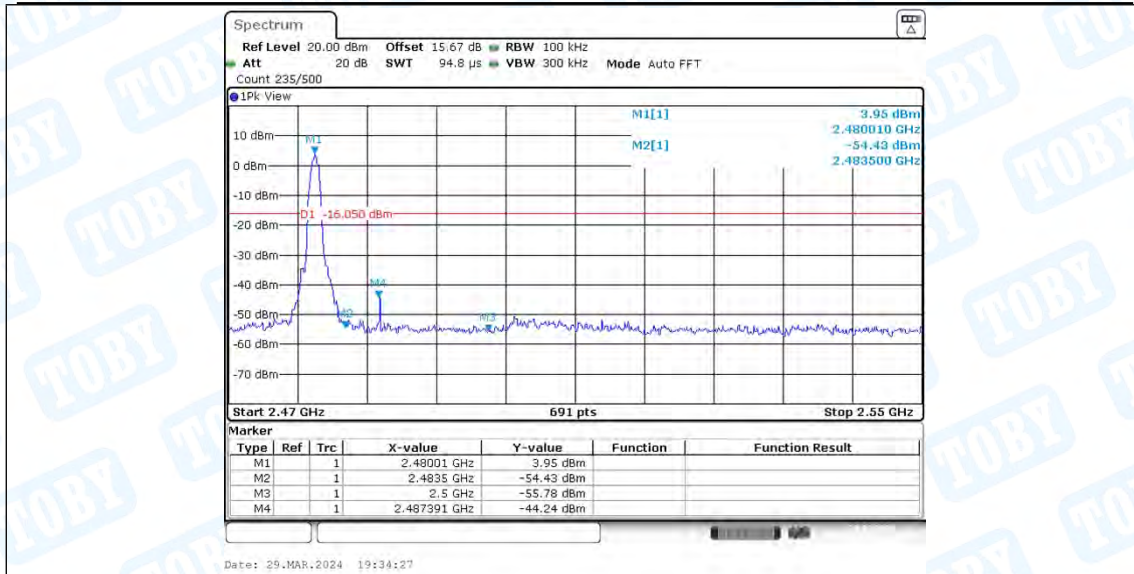
2DH5_Ant1_High_Hop_2480



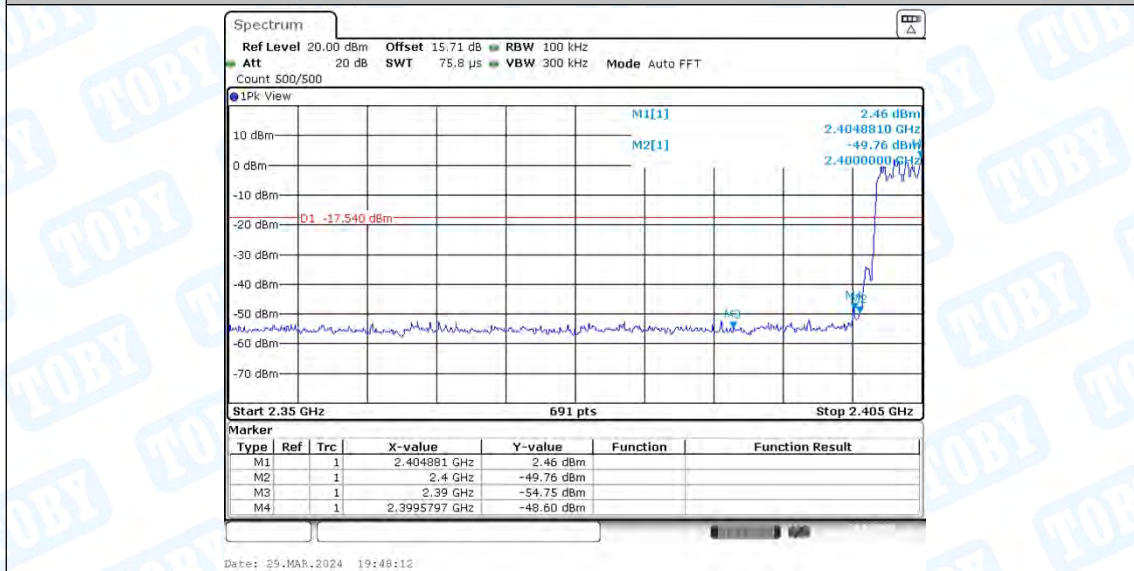
3DH5_Ant1_Low_2402



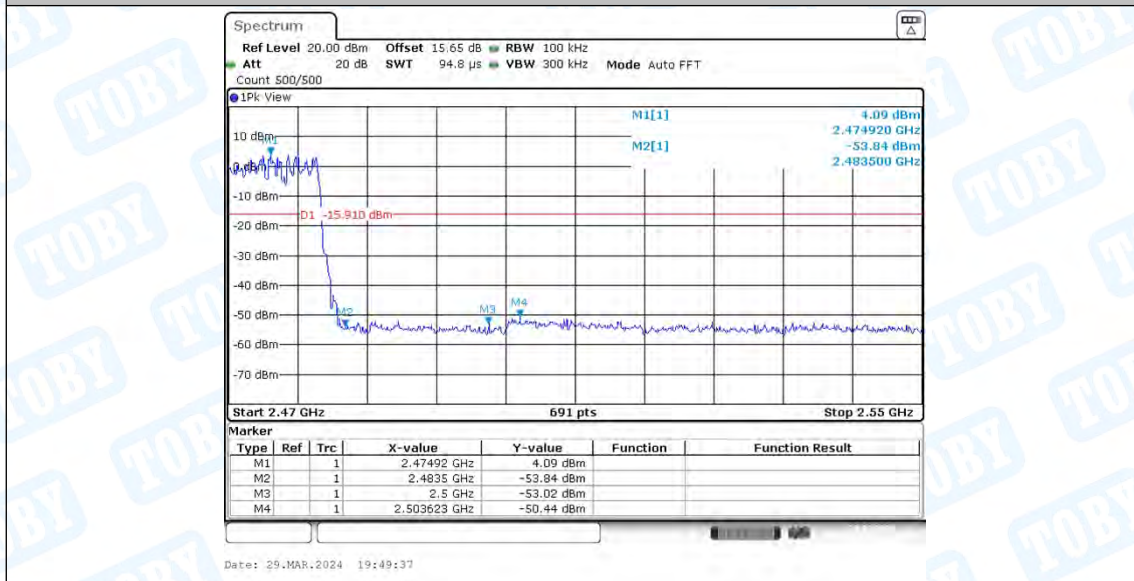
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

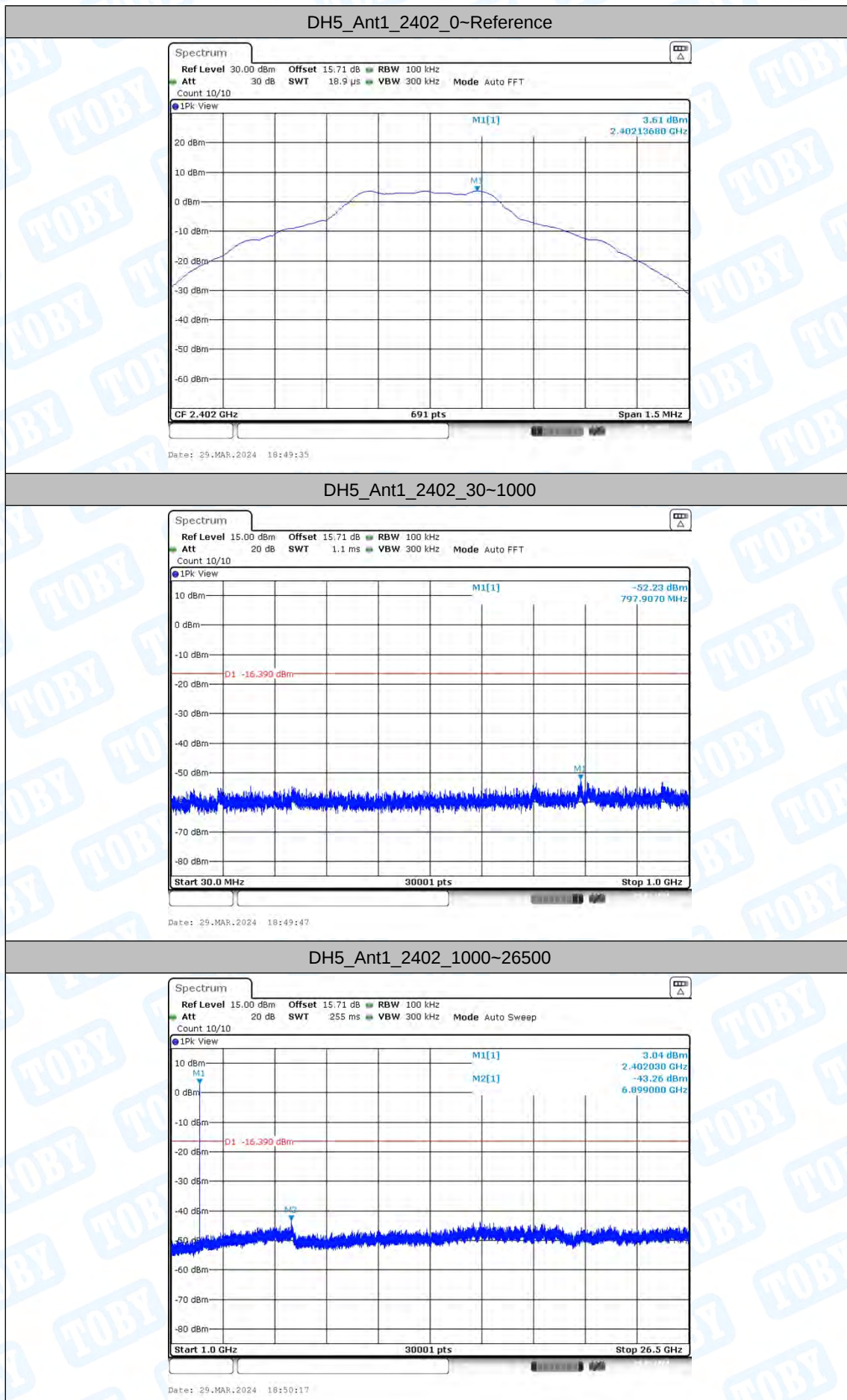


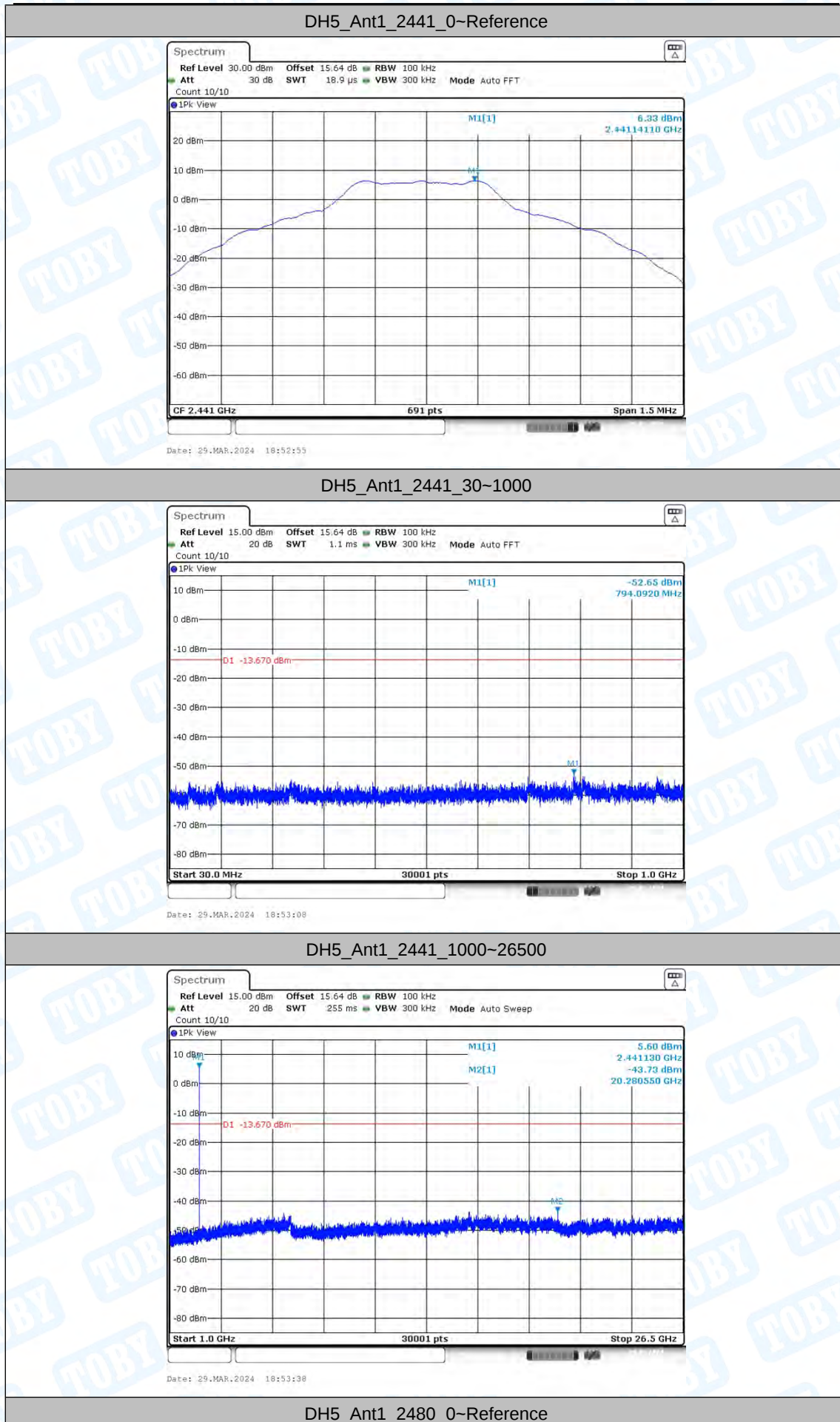
8. Conducted Spurious Emission

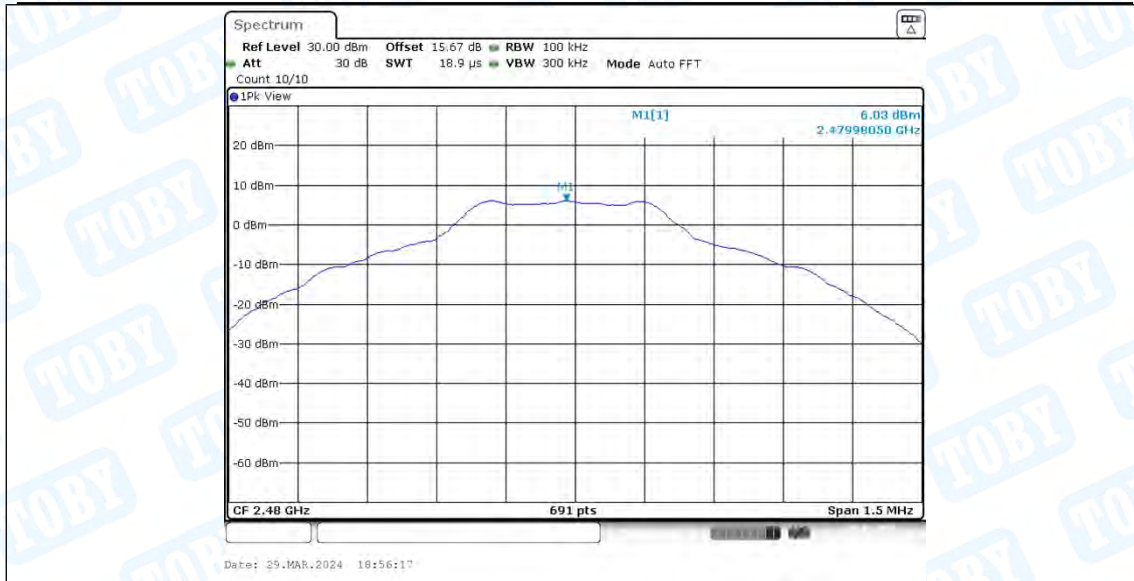
8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.61	3.61	---	PASS
			30~1000	3.61	-52.23	≤-16.39	PASS
			1000~26500	3.61	-43.26	≤-16.39	PASS
		2441	Reference	6.33	6.33	---	PASS
			30~1000	6.33	-52.65	≤-13.67	PASS
			1000~26500	6.33	-43.73	≤-13.67	PASS
		2480	Reference	6.03	6.03	---	PASS
			30~1000	6.03	-53.14	≤-13.97	PASS
			1000~26500	6.03	-44.27	≤-13.97	PASS
2DH5	Ant1	2402	Reference	5.66	5.66	---	PASS
			30~1000	5.66	-52.71	≤-14.34	PASS
			1000~26500	5.66	-43.3	≤-14.34	PASS
		2441	Reference	5.37	5.37	---	PASS
			30~1000	5.37	-52.84	≤-14.63	PASS
			1000~26500	5.37	-43.85	≤-14.63	PASS
		2480	Reference	5.96	5.96	---	PASS
			30~1000	5.96	-52.9	≤-14.04	PASS
			1000~26500	5.96	-43.66	≤-14.04	PASS
3DH5	Ant1	2402	Reference	3.62	3.62	---	PASS
			30~1000	3.62	-53.6	≤-16.38	PASS
			1000~26500	3.62	-43.65	≤-16.38	PASS
		2441	Reference	5.38	5.38	---	PASS
			30~1000	5.38	-51.69	≤-14.62	PASS
			1000~26500	5.38	-43.87	≤-14.62	PASS
		2480	Reference	3.95	3.95	---	PASS
			30~1000	3.95	-53.11	≤-16.05	PASS
			1000~26500	3.95	-43.68	≤-16.05	PASS

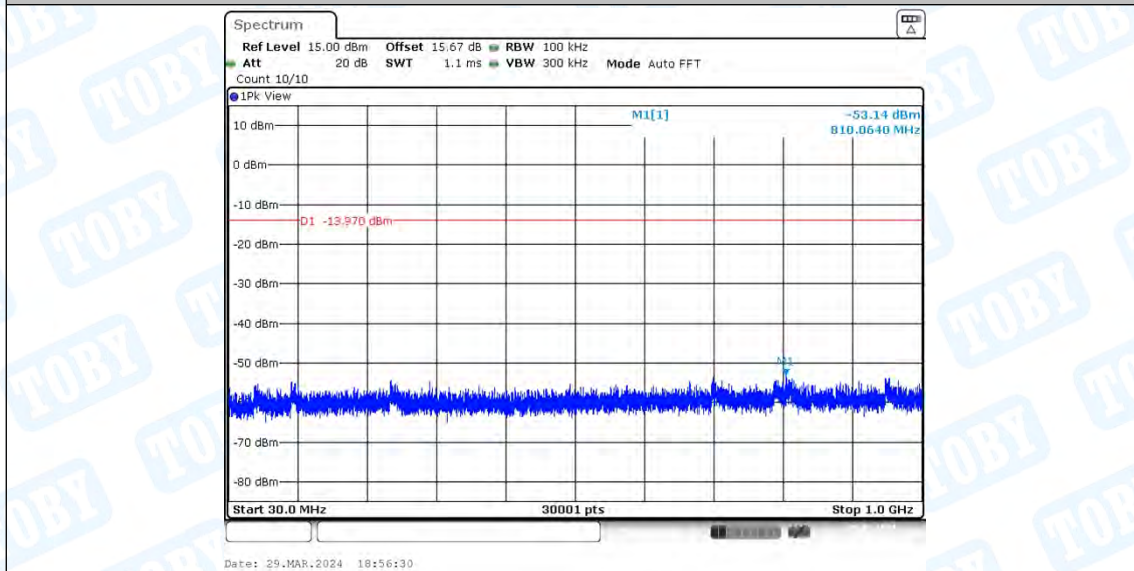
8.2.Test Graphs



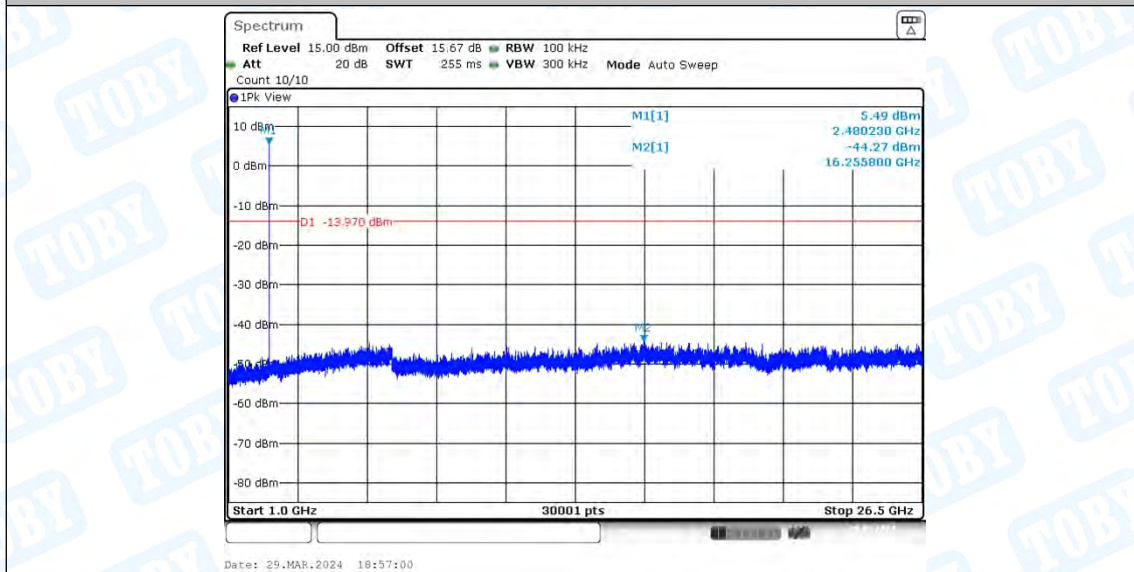




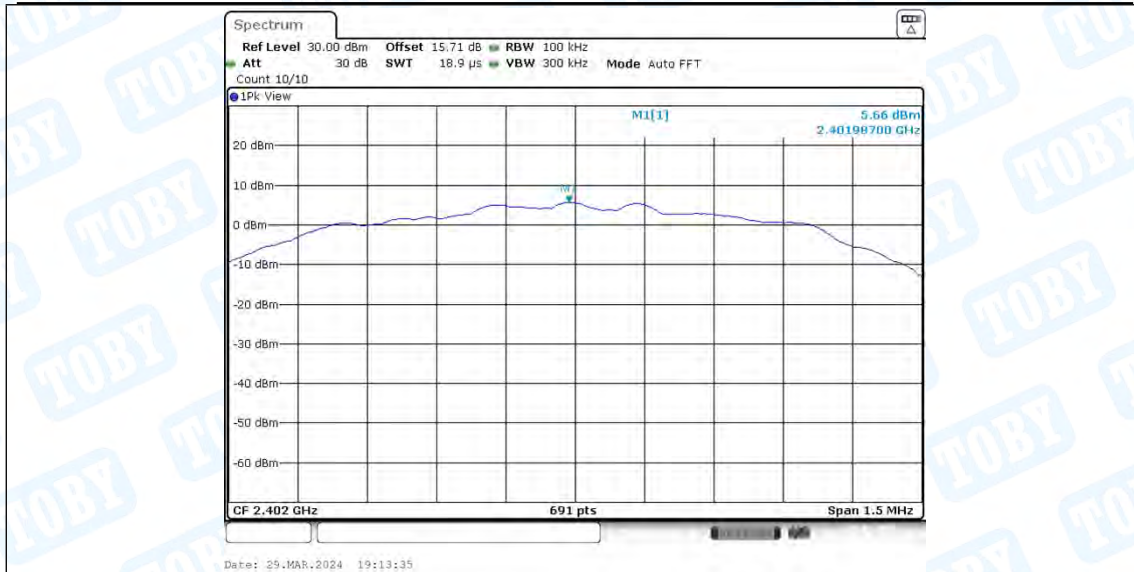
DH5_Ant1_2480_30~1000



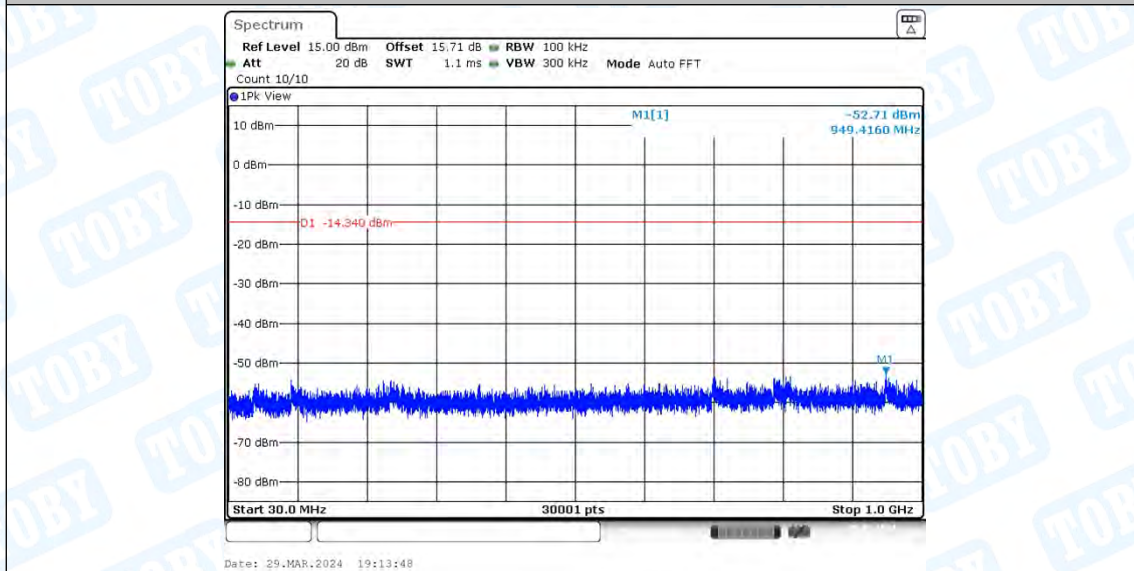
DH5_Ant1_2480_1000~26500



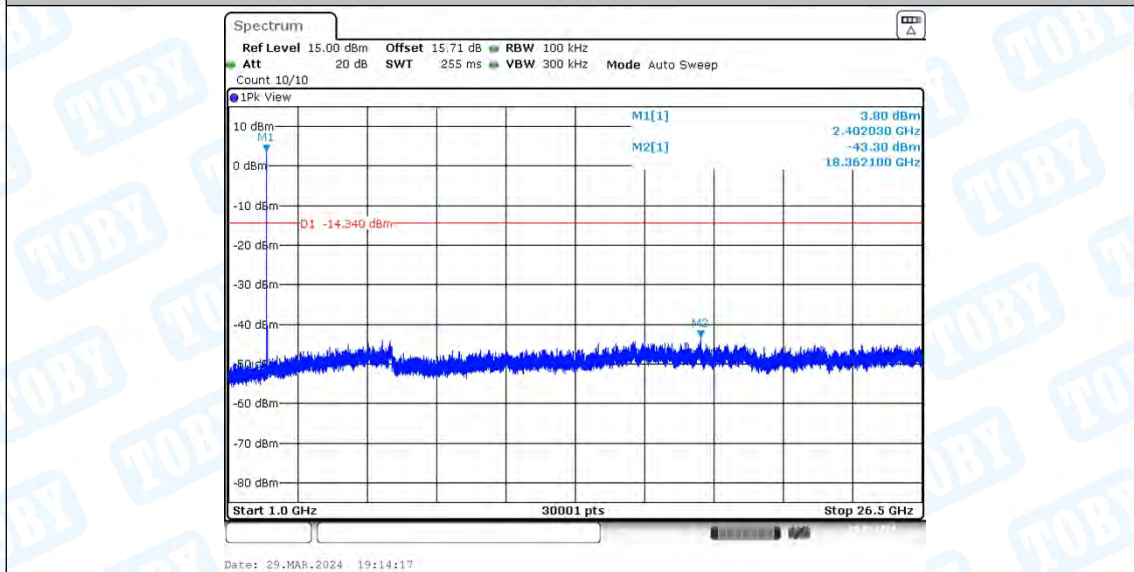
2DH5_Ant1_2402_0~Reference



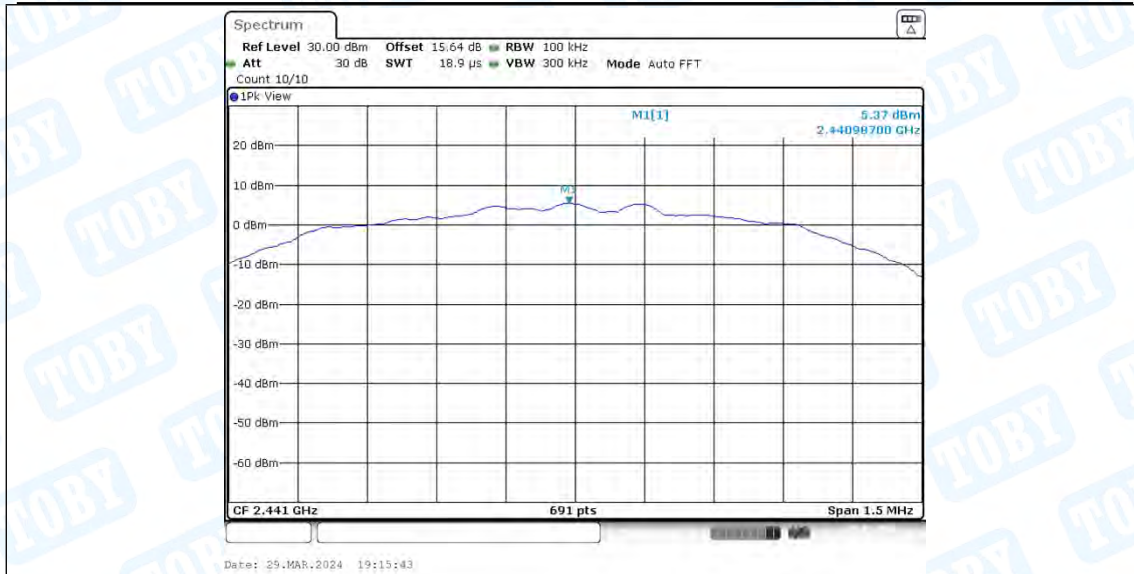
2DH5_Ant1_2402_30~1000



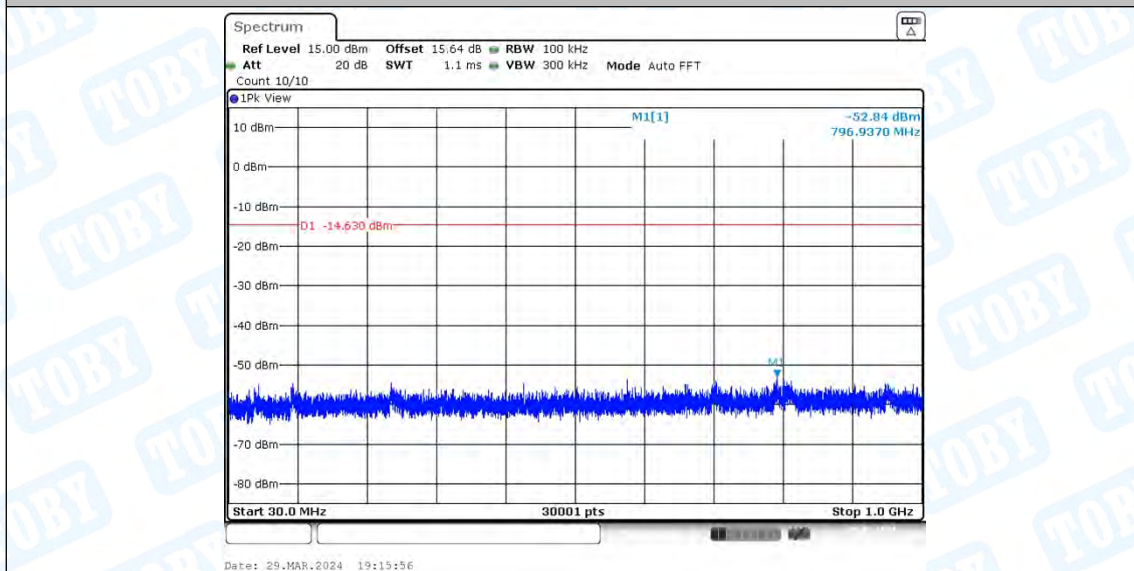
2DH5_Ant1_2402_1000~26500



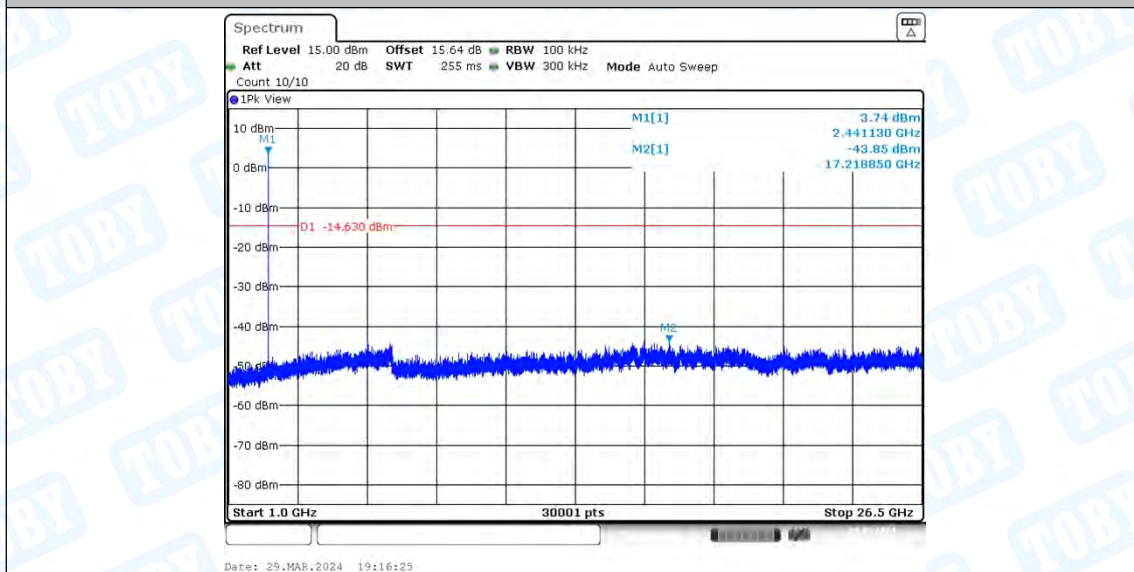
2DH5_Ant1_2441_0~Reference



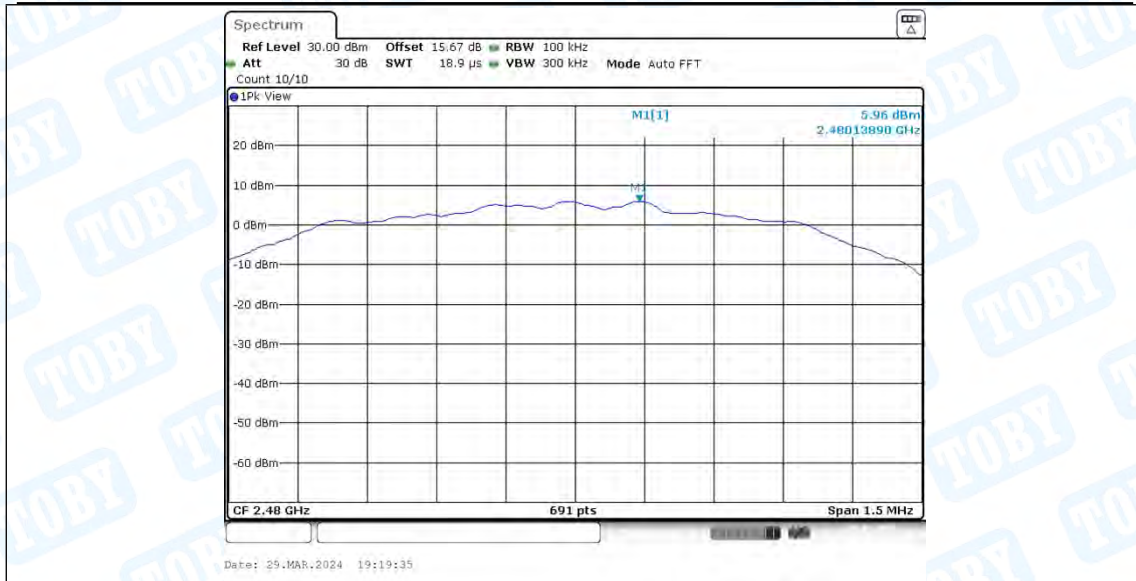
2DH5_Ant1_2441_30~1000



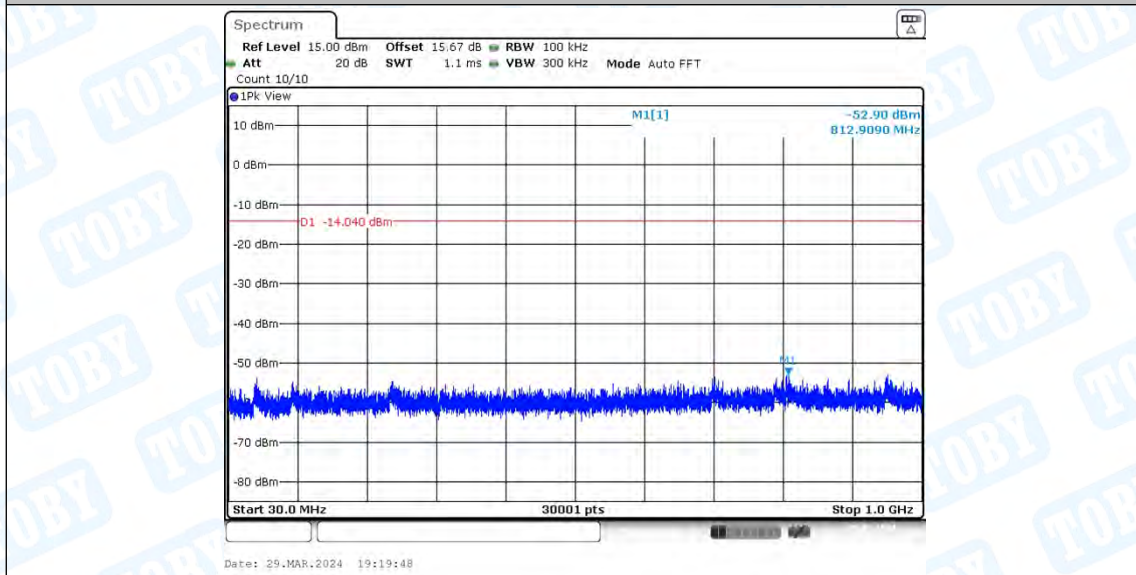
2DH5_Ant1_2441_1000~26500



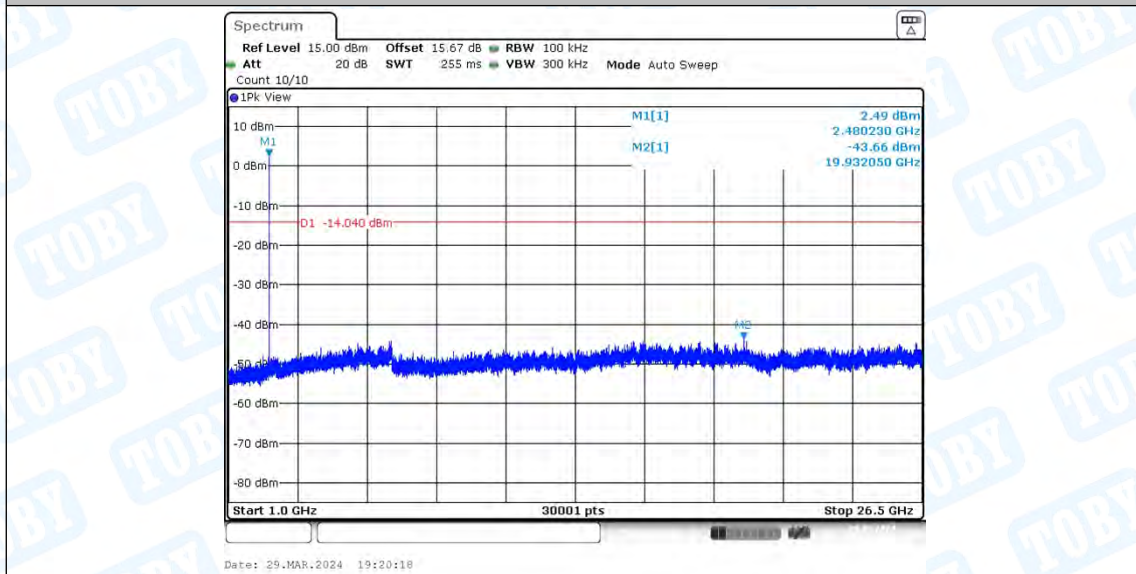
2DH5_Ant1_2480_0~Reference



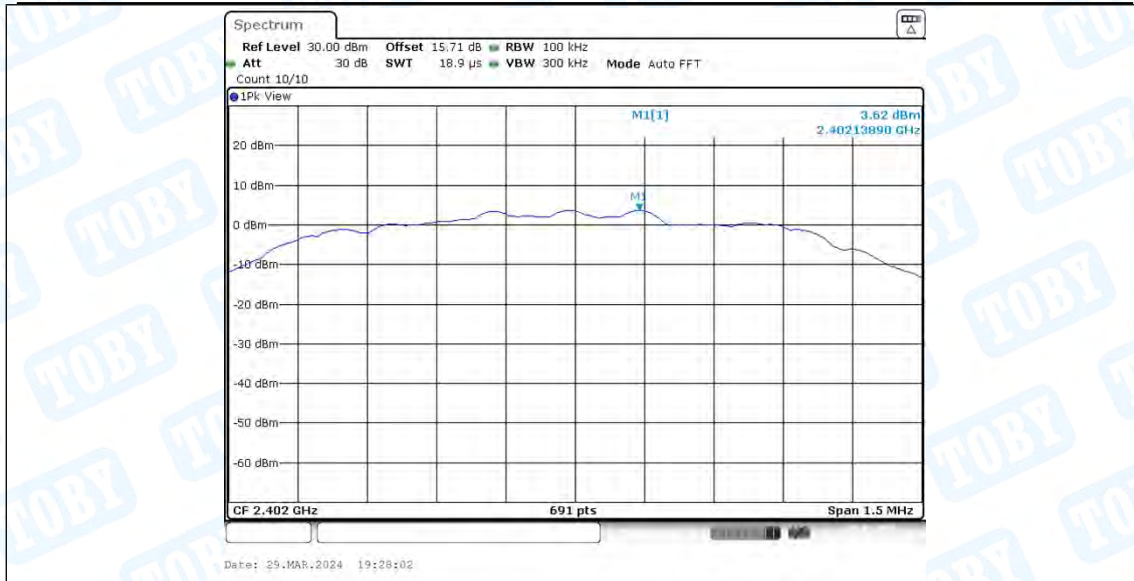
2DH5_Ant1_2480_30~1000



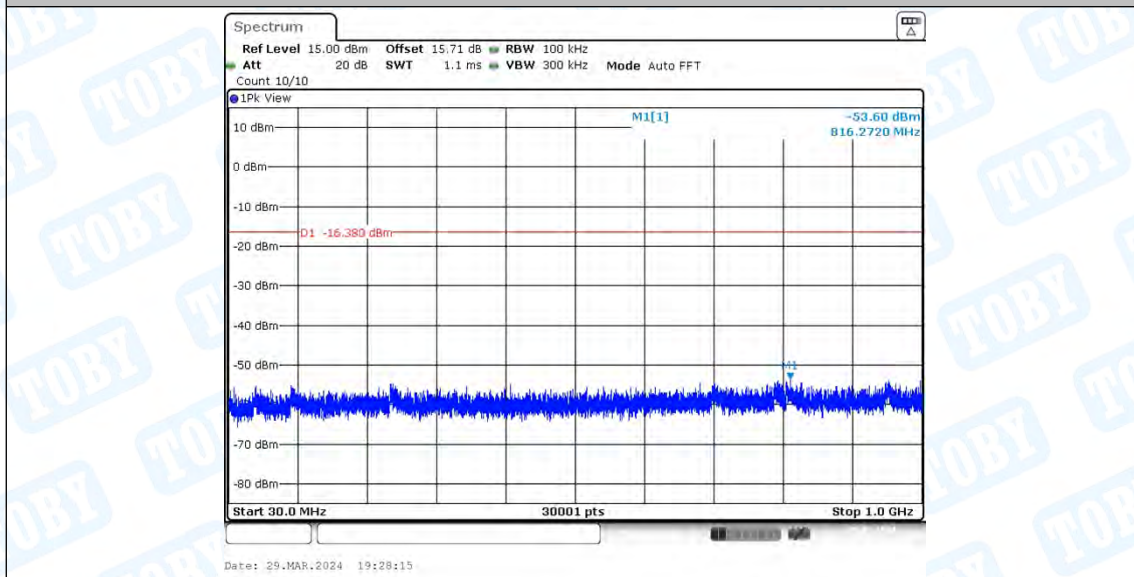
2DH5_Ant1_2480_1000~26500



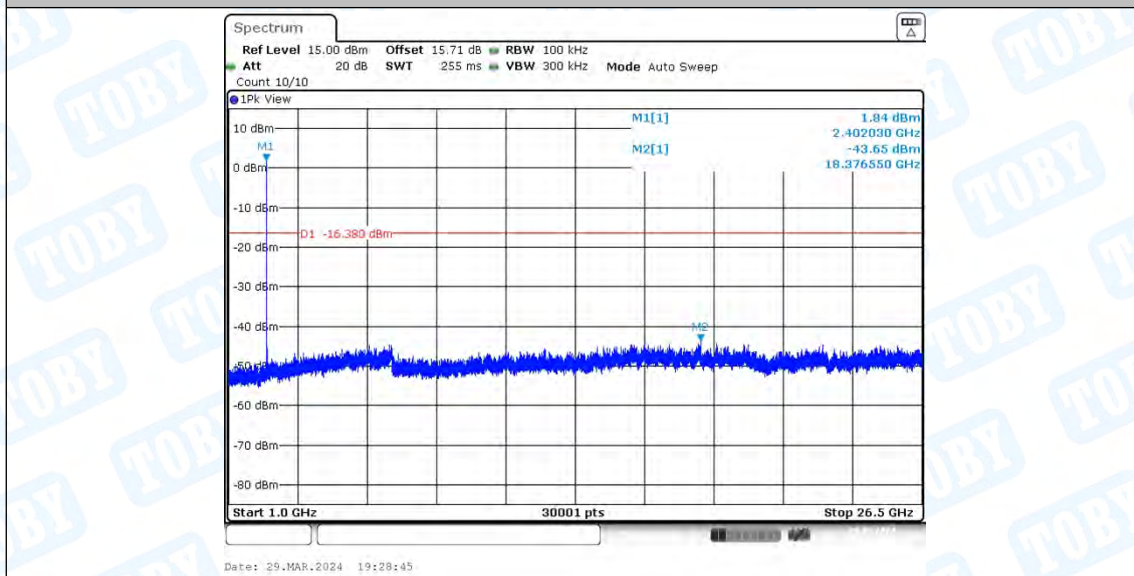
3DH5_Ant1_2402_0~Reference



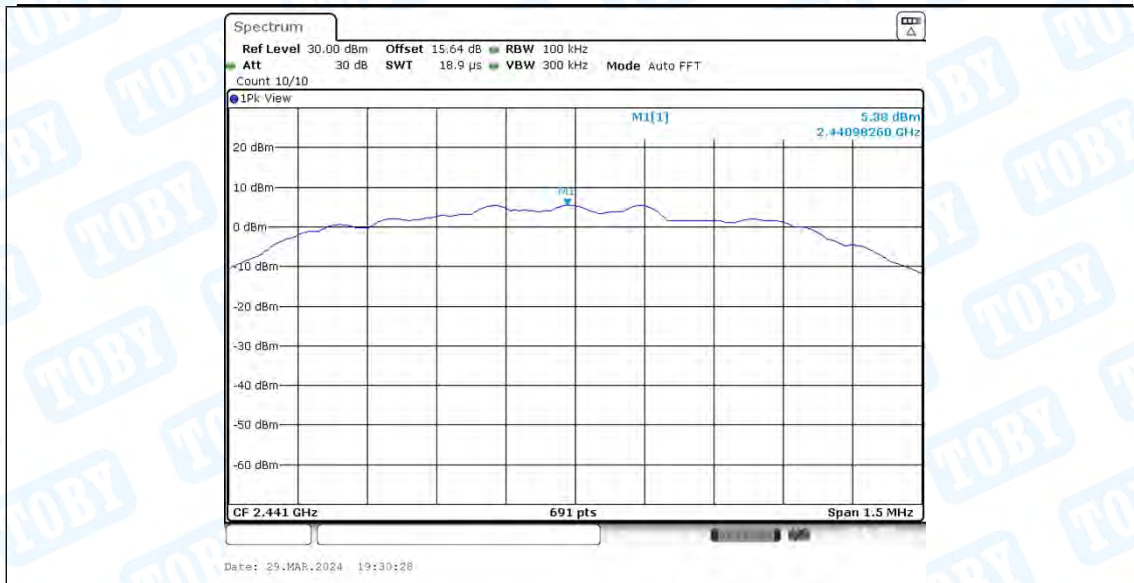
3DH5_Ant1_2402_30~1000



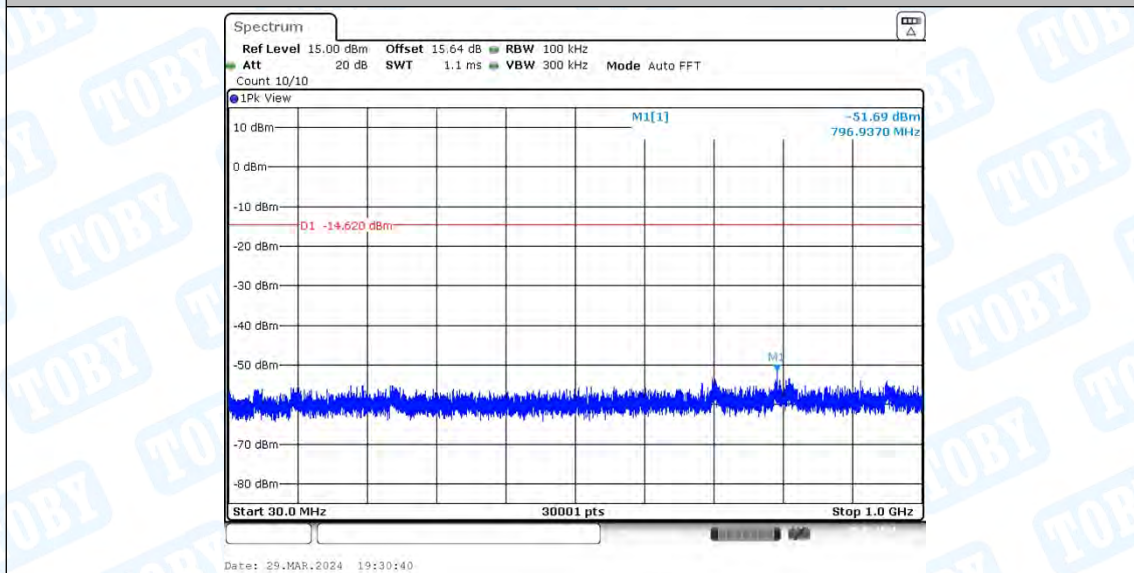
3DH5_Ant1_2402_1000~26500



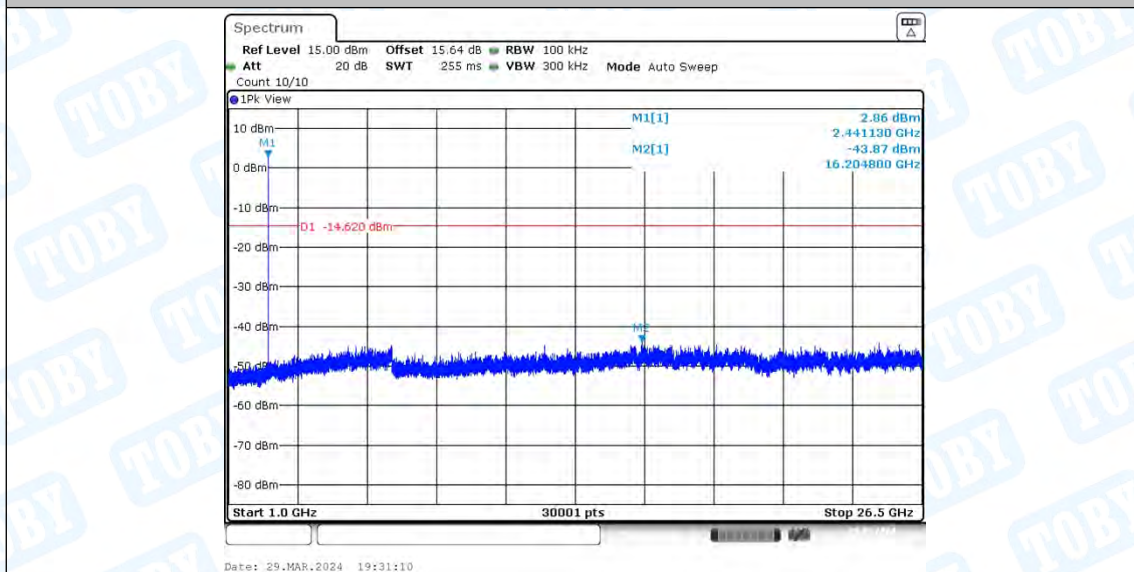
3DH5_Ant1_2441_0~Reference



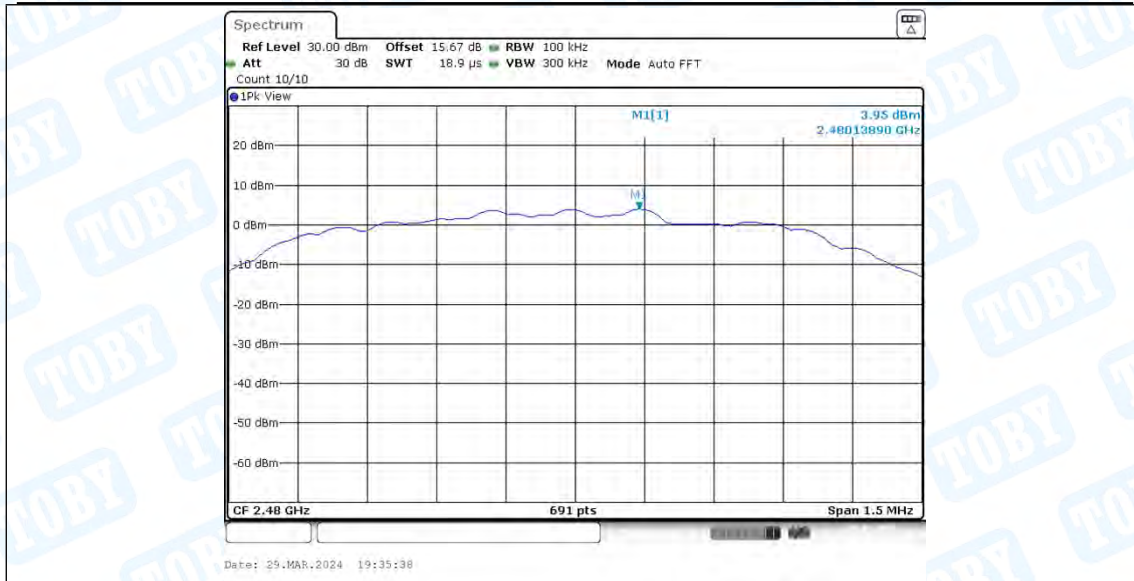
3DH5_Ant1_2441_30~1000



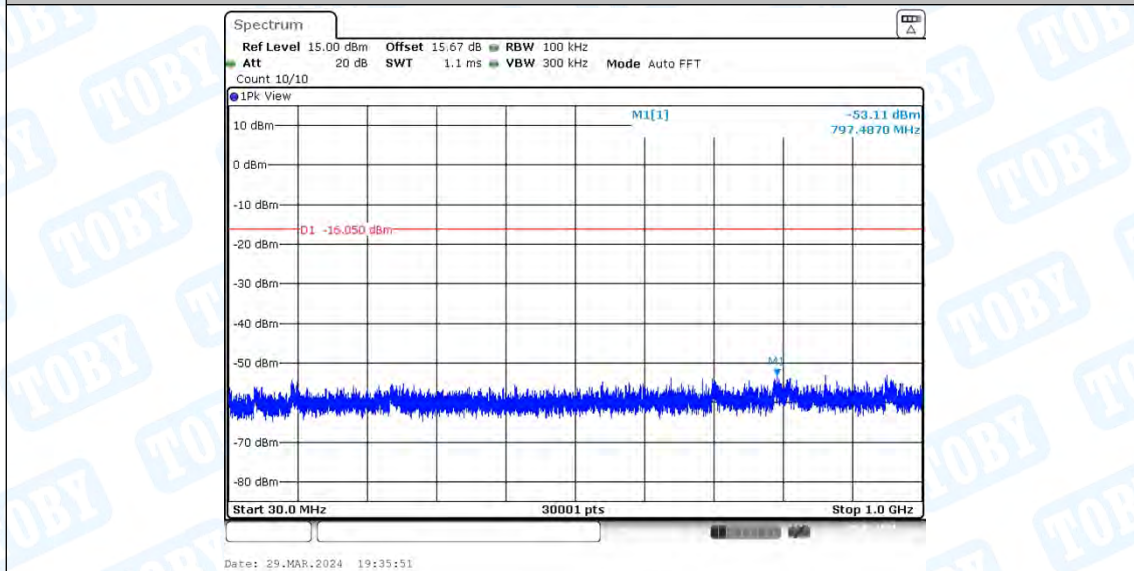
3DH5_Ant1_2441_1000~26500



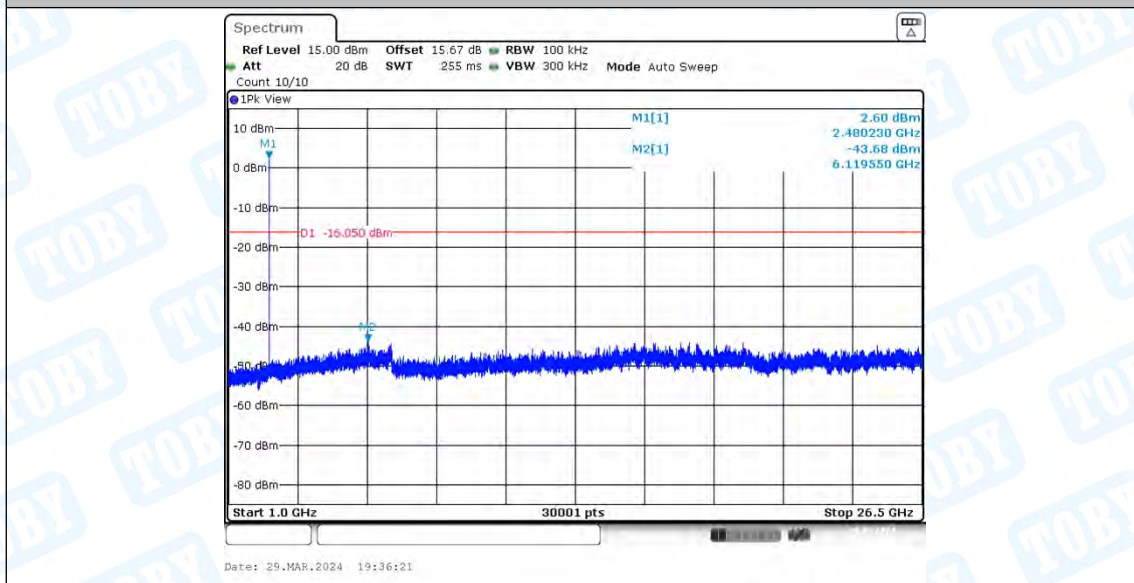
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

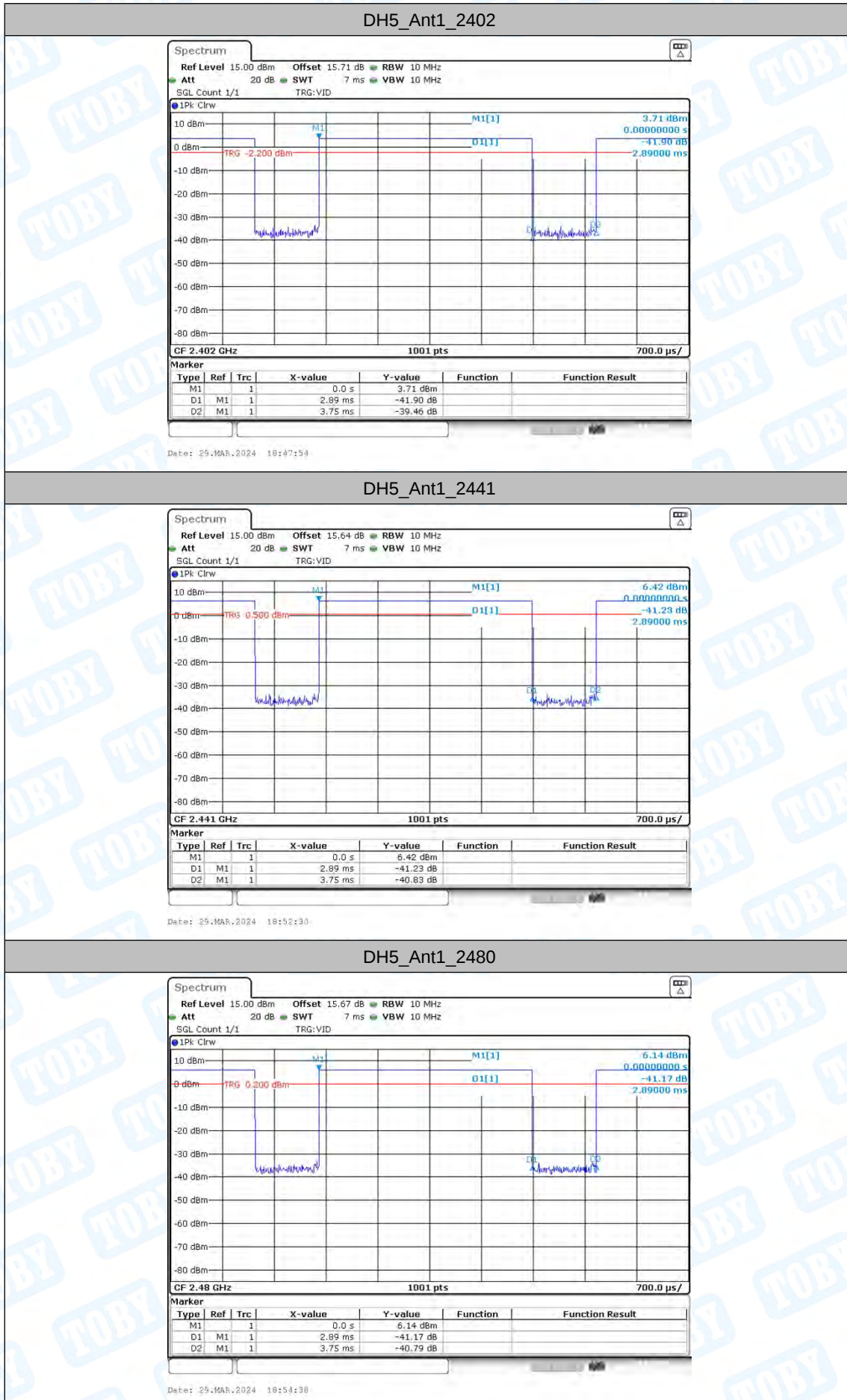


9. Duty Cycle

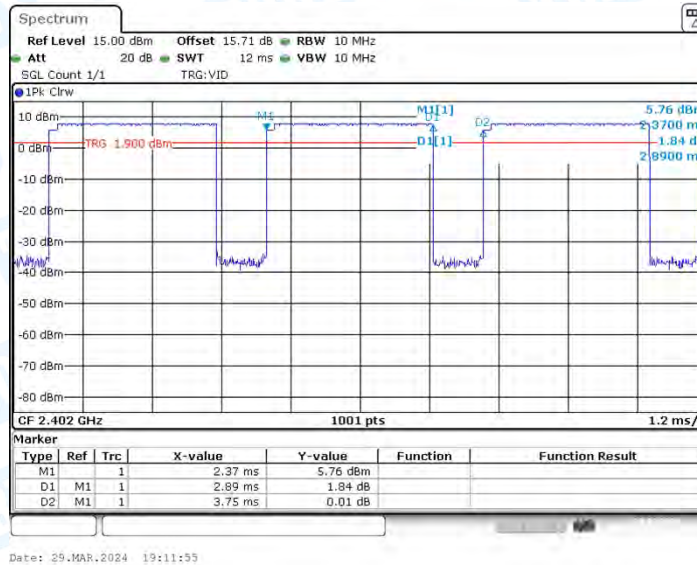
9.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	0.346021	---	---
		2441	2.89	3.75	77.07	0.346021	---	---
		2480	2.89	3.75	77.07	0.346021	---	---
2DH5	Ant1	2402	2.89	3.75	77.07	0.346021	---	---
		2441	2.90	3.76	77.13	0.344828	---	---
		2480	2.89	3.75	77.07	0.346021	---	---
3DH5	Ant1	2402	2.89	3.75	77.07	0.346021	---	---
		2441	2.89	3.75	77.07	0.346021	---	---
		2480	2.89	3.76	76.86	0.346021	---	---

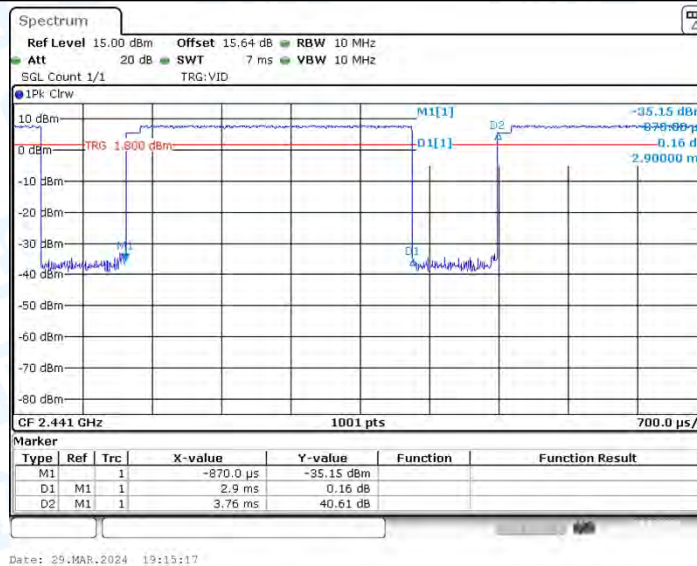
9.2.Test Graphs



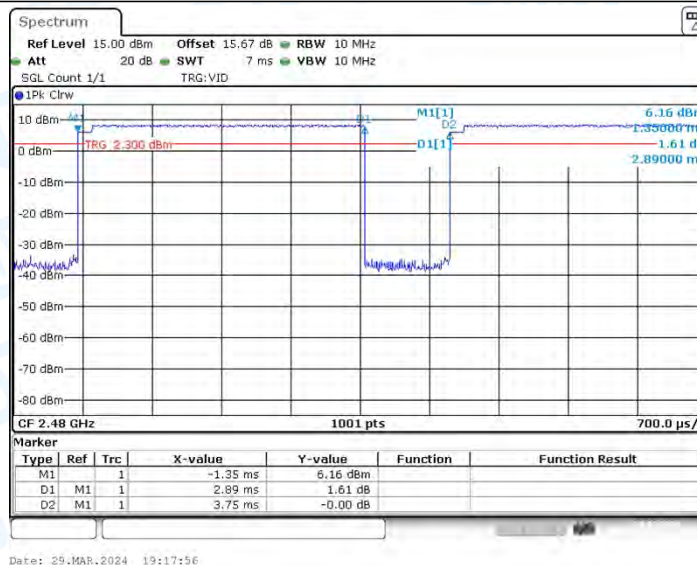
2DH5_Ant1_2402



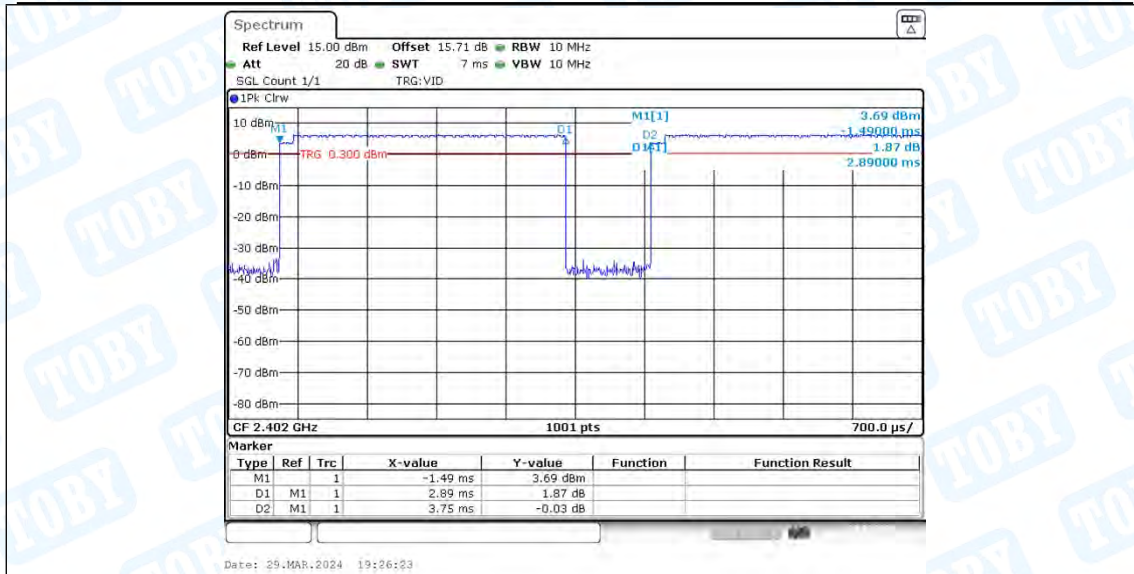
2DH5_Ant1_2441



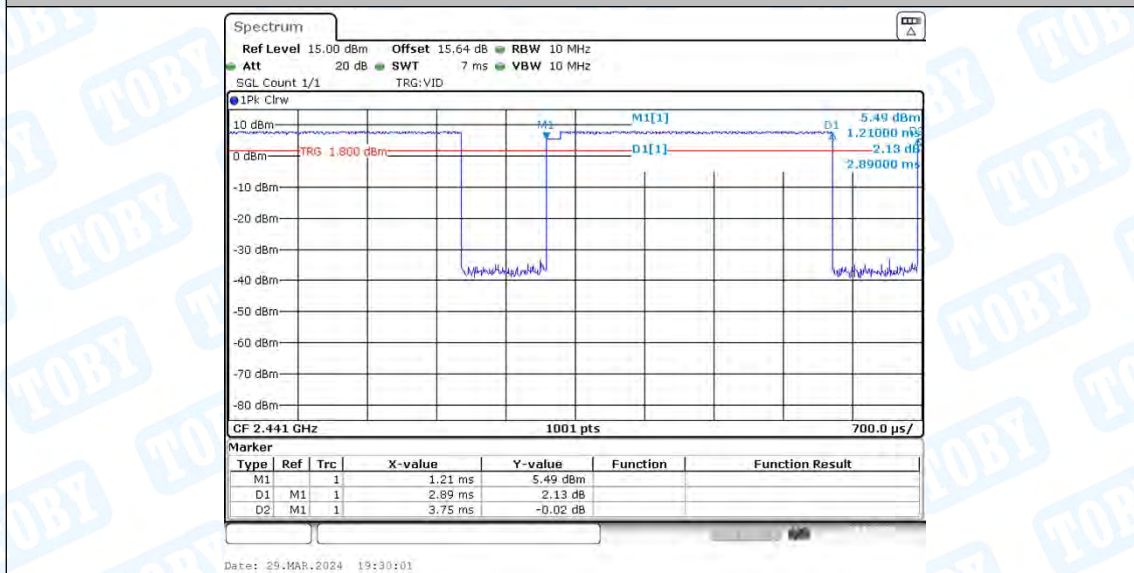
2DH5_Ant1_2480



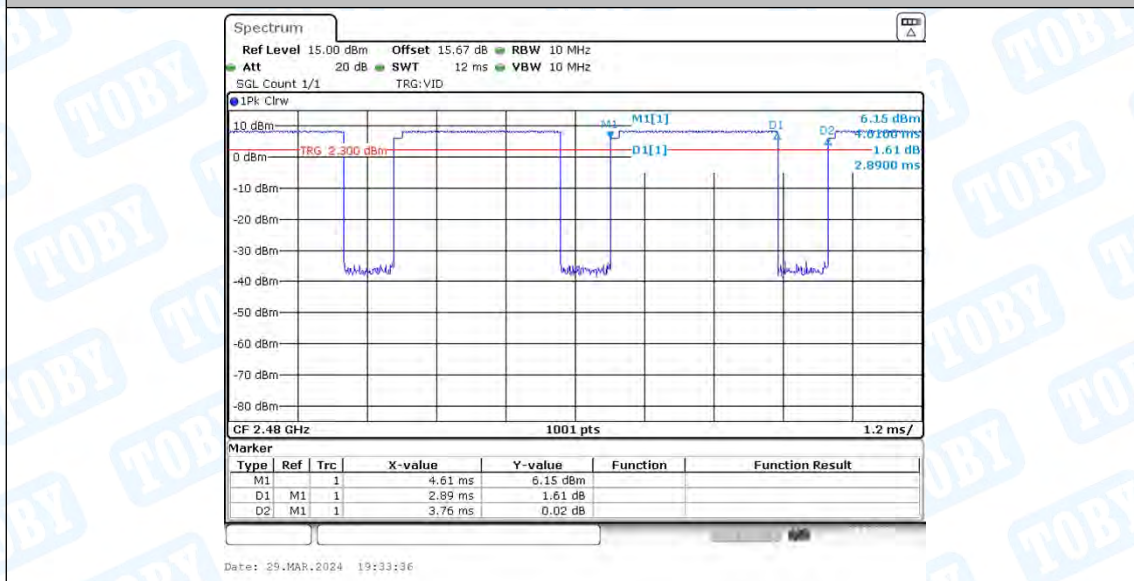
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



10. Emissions in Restricted Bands

10.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-54.47	≤-41.20	PASS
				AV	2341.848	-51.16	≤-41.20	PASS
				AV	2390.000	-54.19	≤-41.20	PASS
				Peak	2310.000	-44.52	≤-21.20	PASS
				Peak	2332.109	-40.01	≤-21.20	PASS
				Peak	2390.000	-43.89	≤-21.20	PASS
		High	2480	AV	2483.500	-52.31	≤-41.20	PASS
				AV	2484.261	-52.24	≤-41.20	PASS
				AV	2500.000	-53.56	≤-41.20	PASS
				Peak	2483.500	-43.22	≤-21.20	PASS
				Peak	2487.391	-39.43	≤-21.20	PASS
				Peak	2500.000	-42.58	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-54.47	≤-41.20	PASS
				AV	2342.000	-51.17	≤-41.20	PASS
				AV	2390.000	-53.63	≤-41.20	PASS
				Peak	2310.000	-43.15	≤-21.20	PASS
				Peak	2341.848	-40.03	≤-21.20	PASS
				Peak	2390.000	-43.24	≤-21.20	PASS
		High	2480	AV	2483.500	-50.41	≤-41.20	PASS
				AV	2484.261	-50.47	≤-41.20	PASS
				AV	2500.000	-53.13	≤-41.20	PASS
				Peak	2483.500	-41.34	≤-21.20	PASS
				Peak	2485.420	-39.6	≤-21.20	PASS
				Peak	2500.000	-41.82	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-54.52	≤-41.20	PASS
				AV	2341.848	-51.27	≤-41.20	PASS
				AV	2390.000	-53.94	≤-41.20	PASS
				Peak	2310.000	-44	≤-21.20	PASS
				Peak	2341.543	-39.52	≤-21.20	PASS
				Peak	2390.000	-43.1	≤-21.20	PASS
		High	2480	AV	2483.500	-50.82	≤-41.20	PASS
				AV	2484.029	-50.76	≤-41.20	PASS
				AV	2500.000	-53.22	≤-41.20	PASS
				Peak	2483.500	-38.41	≤-21.20	PASS
				Peak	2484.493	-38.5	≤-21.20	PASS
				Peak	2500.000	-42.82	≤-21.20	PASS

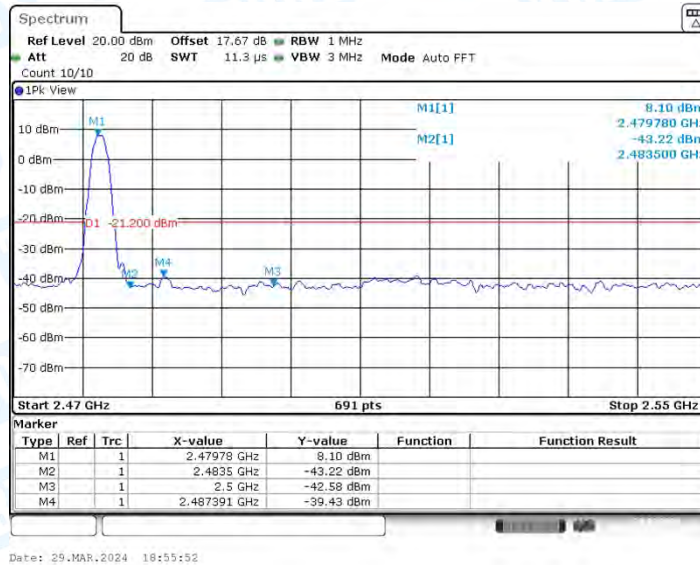
Note:

- The Antenna Gain is compensated in the graph.
- 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.

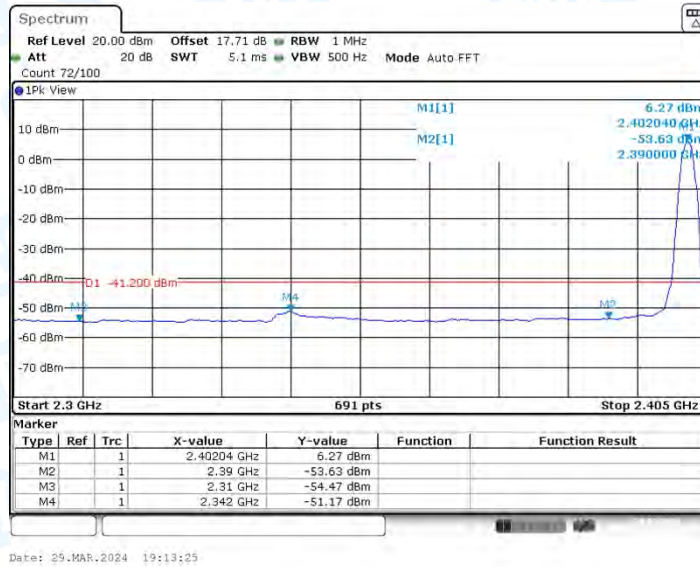
10.2. Test Graphs



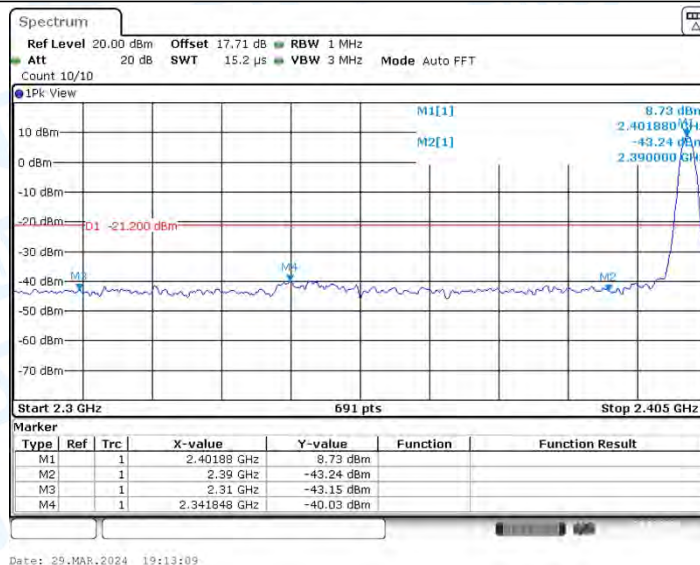
DH5_Ant1_High_2480_Peak



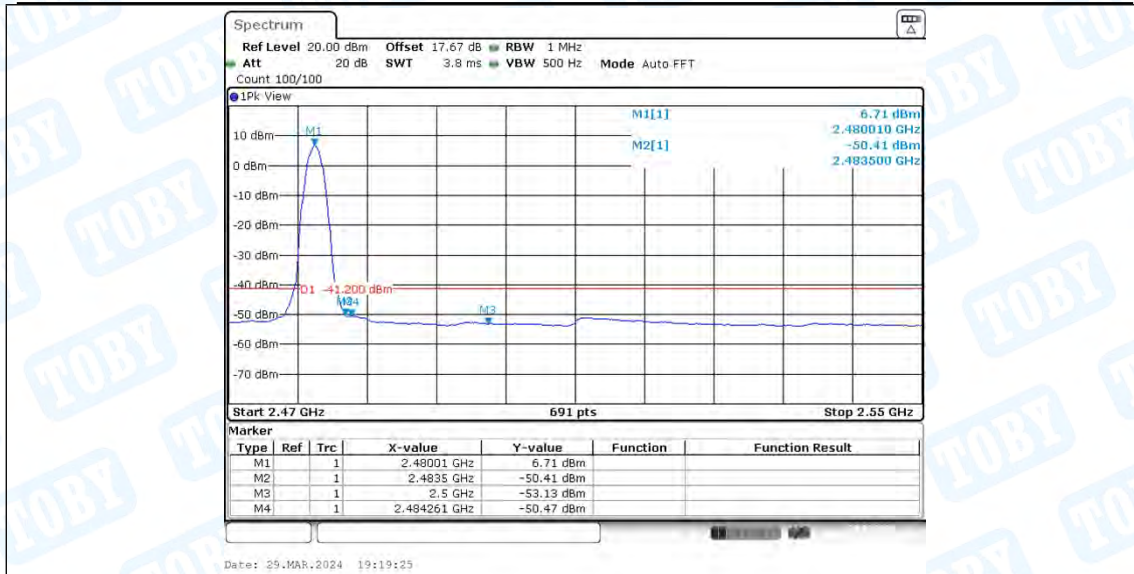
2DH5_Ant1_Low_2402_AV



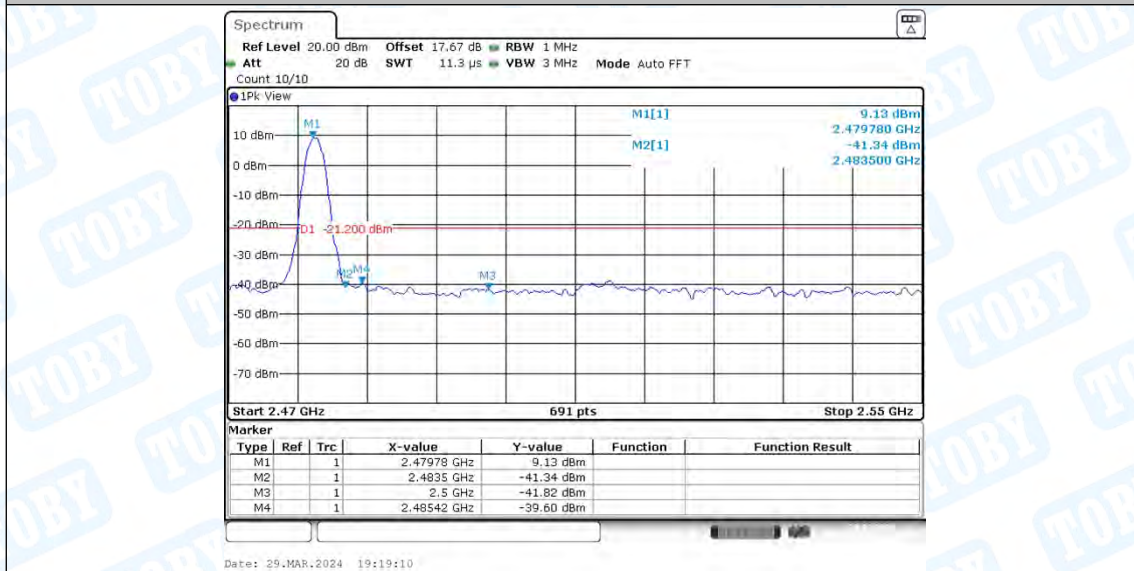
2DH5_Ant1_Low_2402_Peak



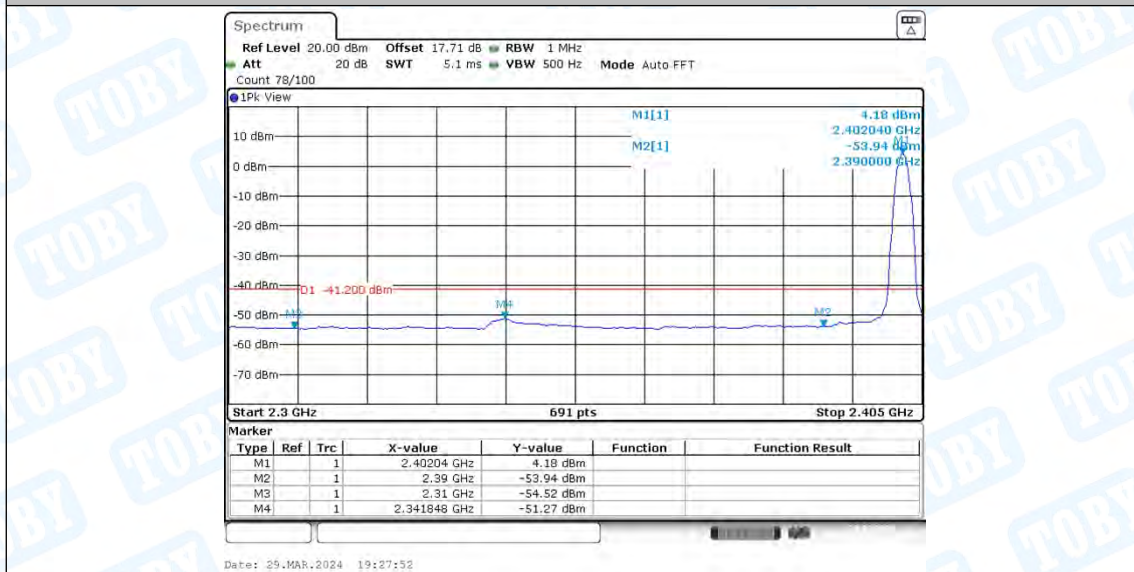
2DH5_Ant1_High_2480_AV



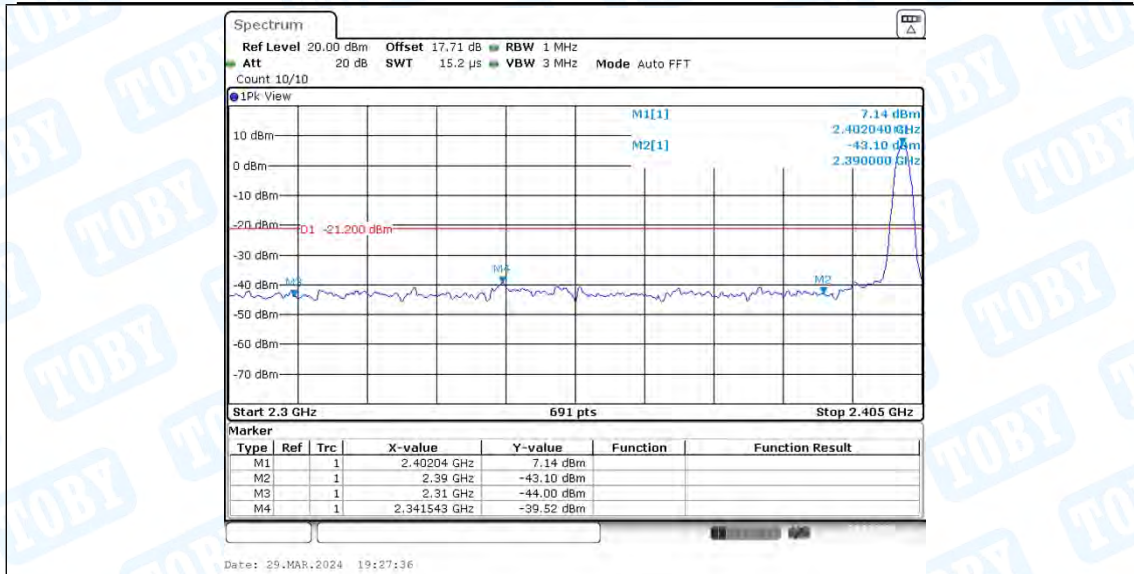
2DH5_Ant1_High_2480_Peak



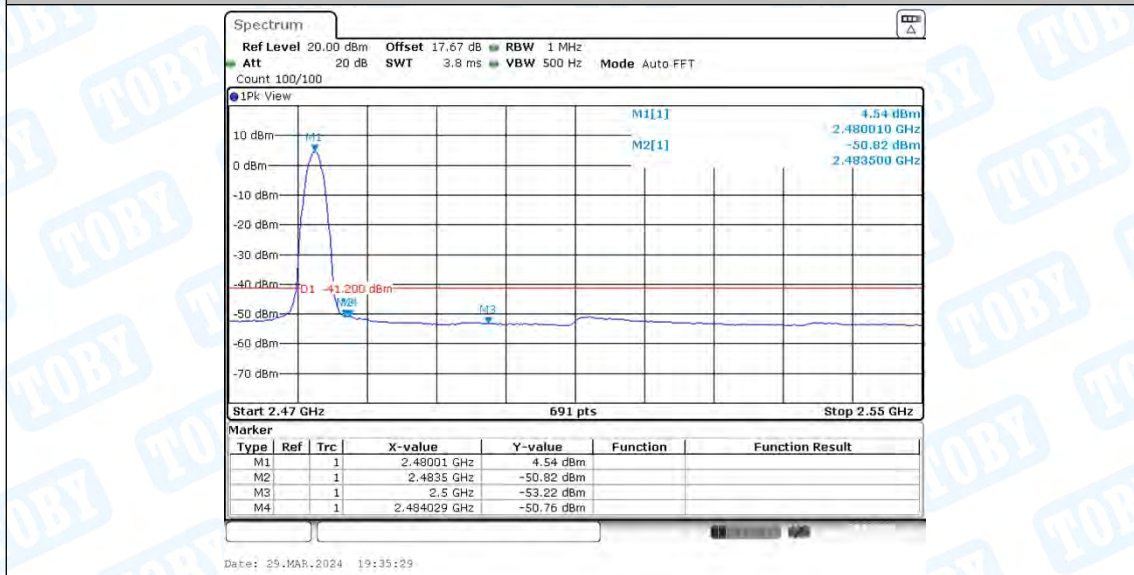
3DH5_Ant1_Low_2402_AV



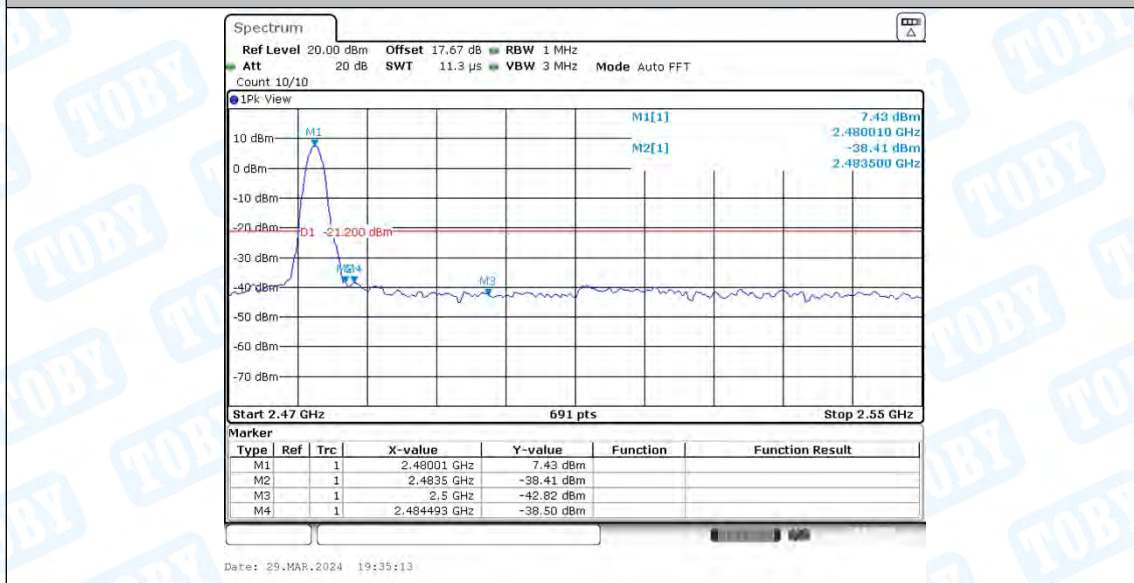
3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



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