

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

General Description of EUT	
Product Name:	Portable Gaming Computer(Tablet computer)
Test Model:	AYANEO Pocket S
Sample ID:	HC-C-202402-0101-01-04-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.85V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202402-0101-3	

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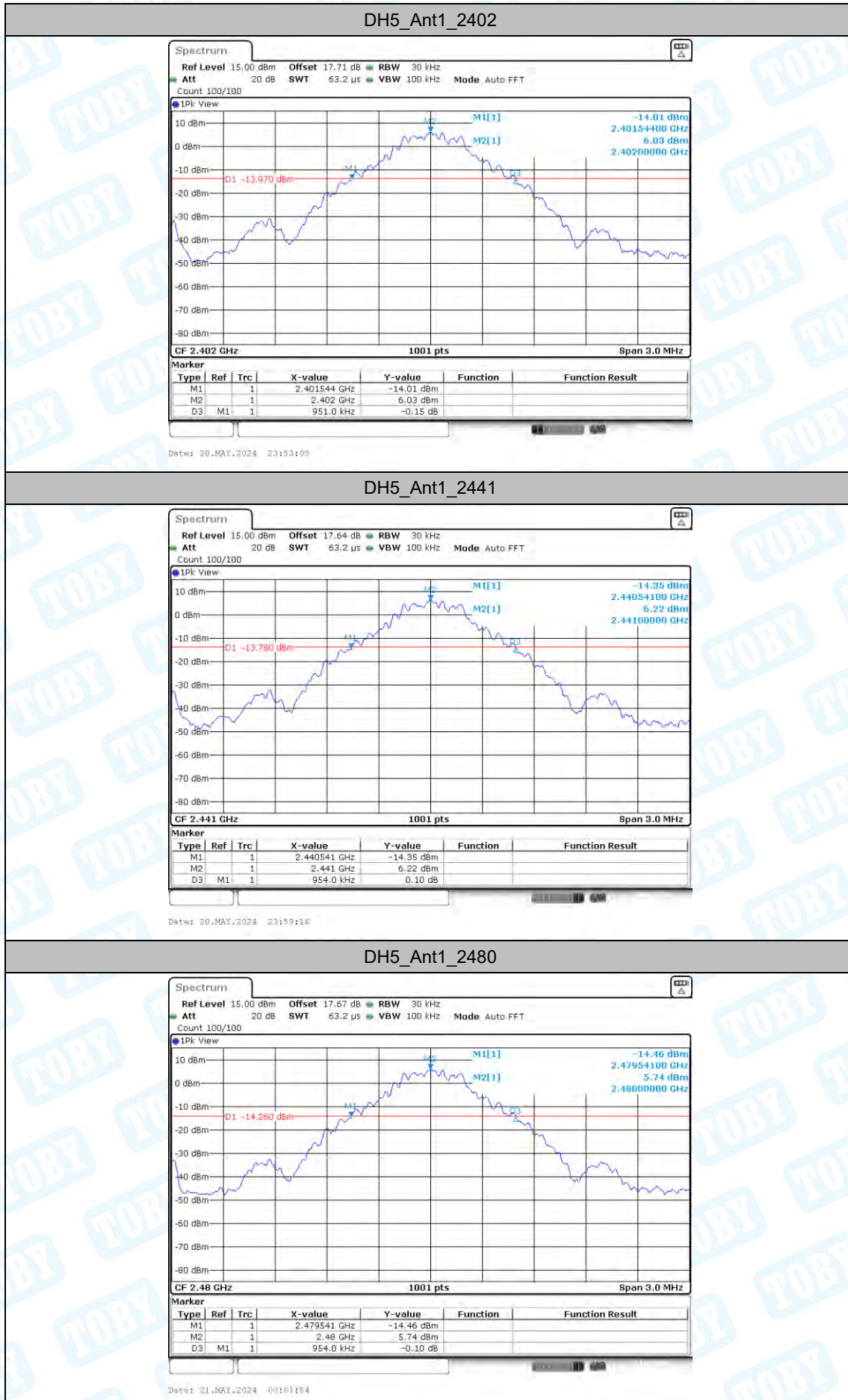
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1. 20dB Emission Bandwidth

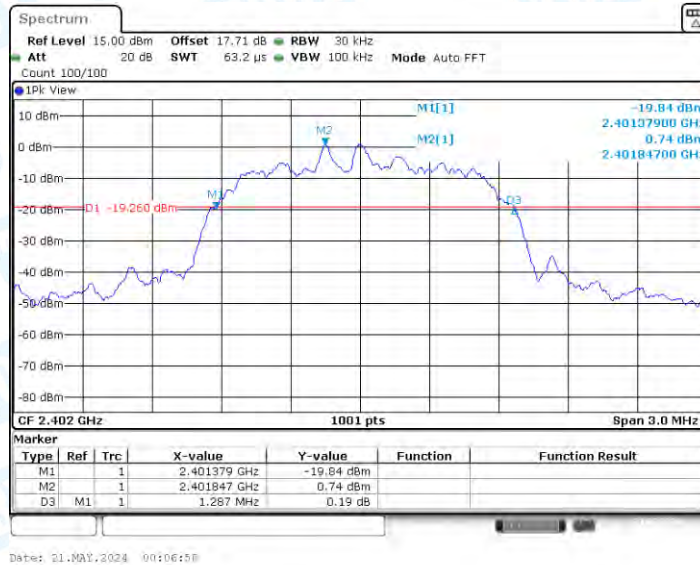
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	---	---
		2441	0.95	---	---
		2480	0.95	---	---
2DH5	Ant1	2402	1.29	---	---
		2441	1.29	---	---
		2480	1.31	---	---
3DH5	Ant1	2402	1.30	---	---
		2441	1.29	---	---
		2480	1.30	---	---

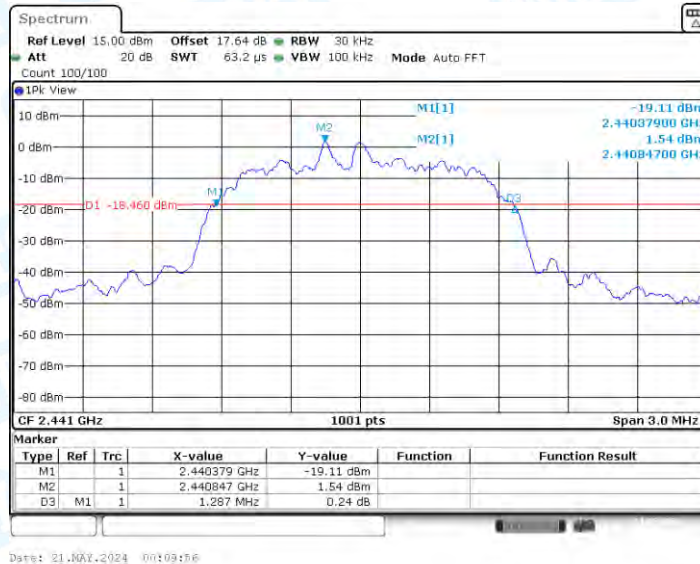
1.2. Test Graphs



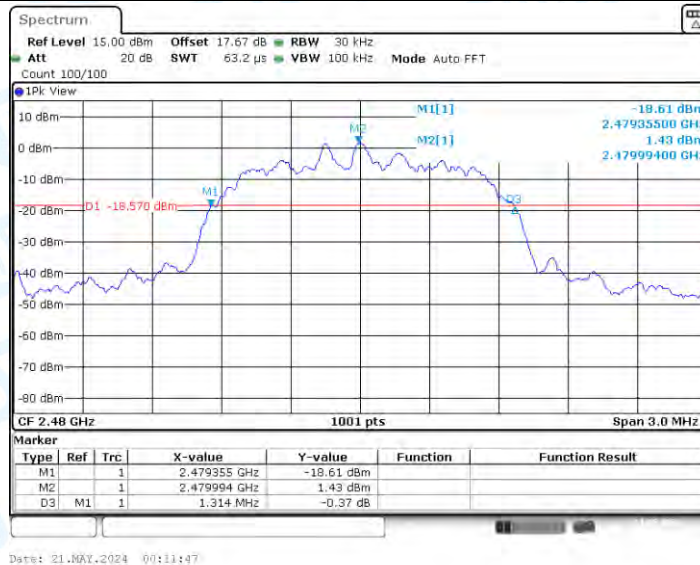
2DH5_Ant1_2402



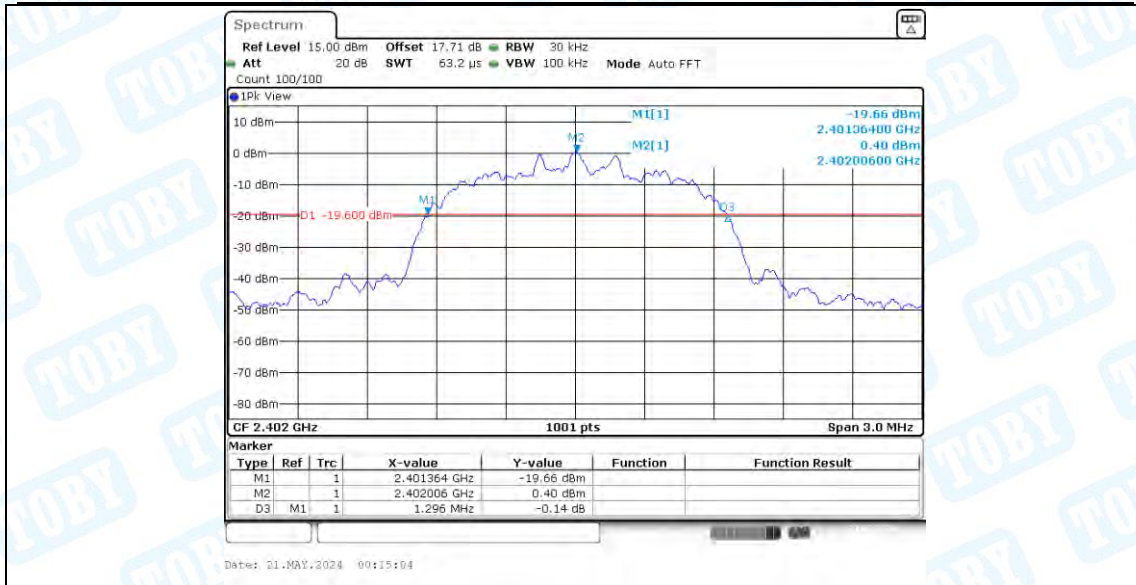
2DH5_Ant1_2441



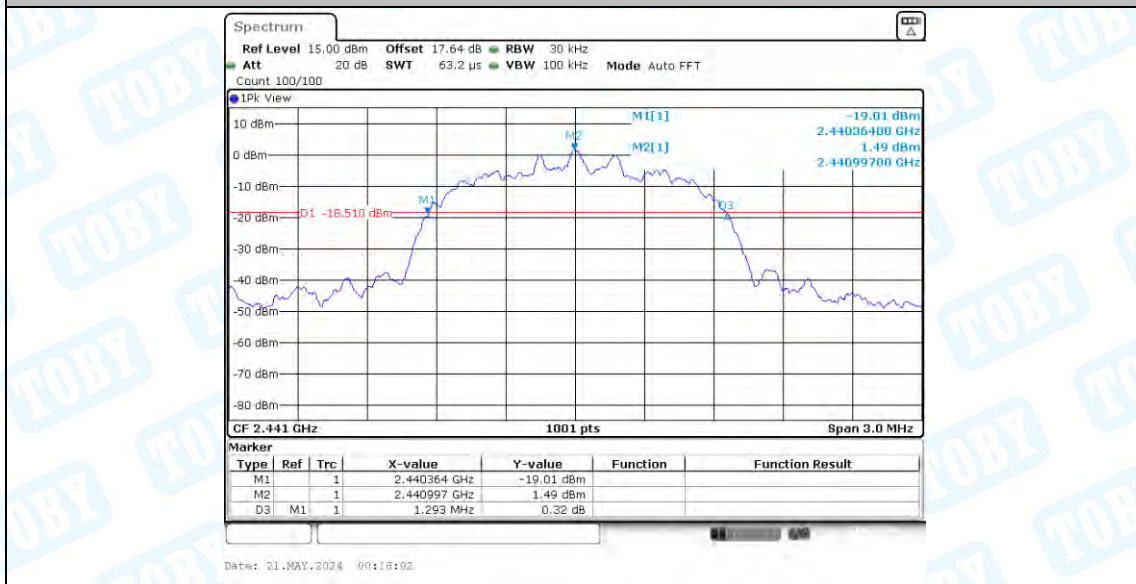
2DH5_Ant1_2480



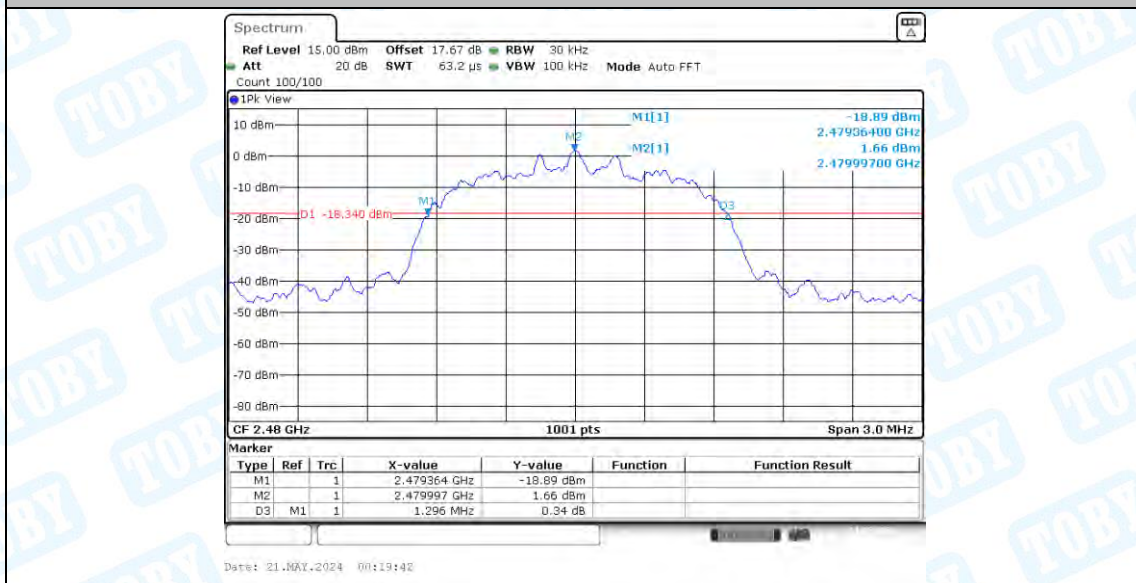
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

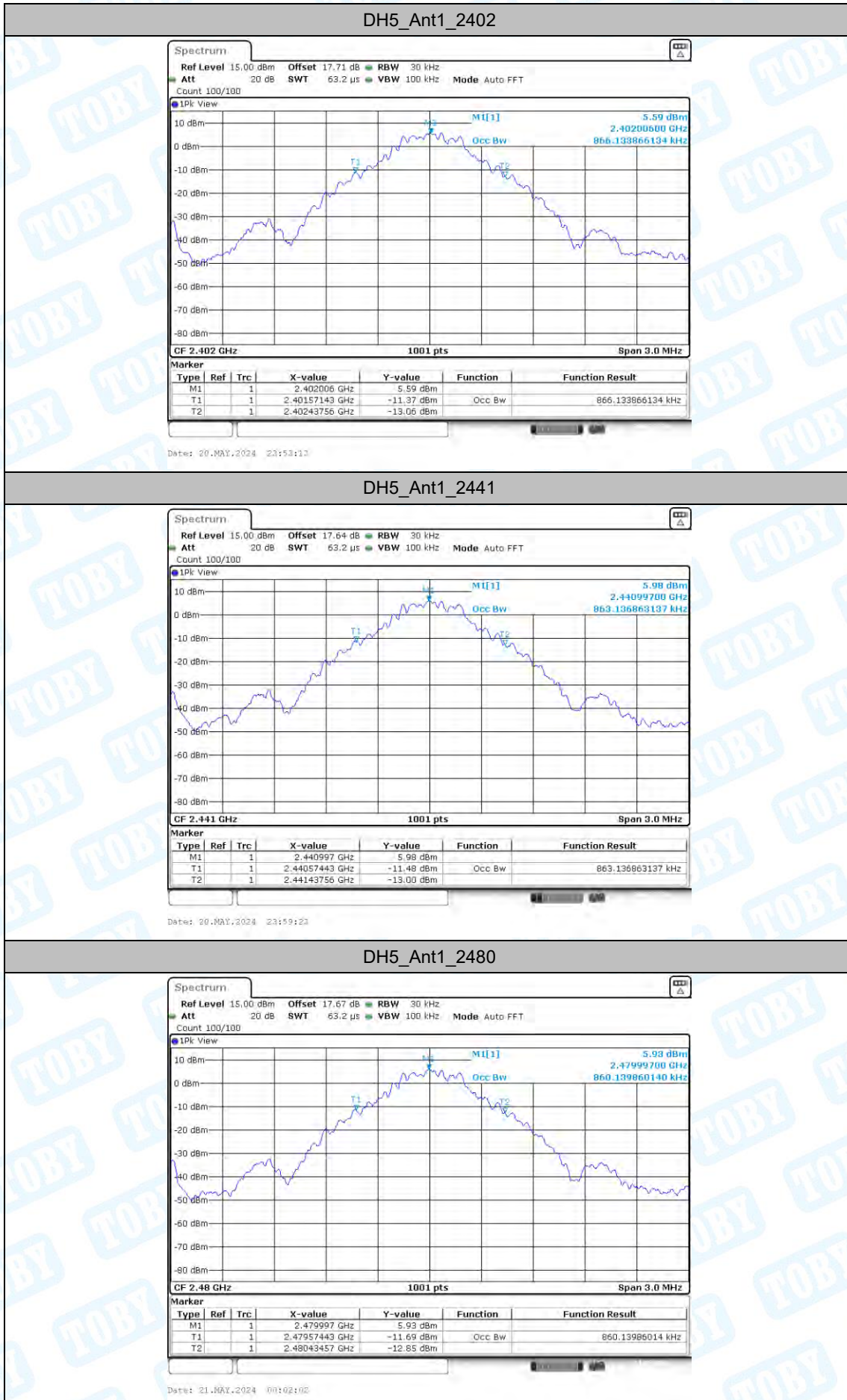


2. Occupied Channel Bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.866	2401.5714	2402.4376	---	---
		2441	0.863	2440.5744	2441.4376	---	---
		2480	0.860	2479.5744	2480.4346	---	---
2DH5	Ant1	2402	1.169	2401.4216	2402.5904	---	---
		2441	1.175	2440.4216	2441.5964	---	---
		2480	1.169	2479.4246	2480.5934	---	---
3DH5	Ant1	2402	1.175	2401.4216	2402.5964	---	---
		2441	1.178	2440.4216	2441.5994	---	---
		2480	1.172	2479.4246	2480.5964	---	---

2.2. Test Graphs



2DH5_Ant1_2402



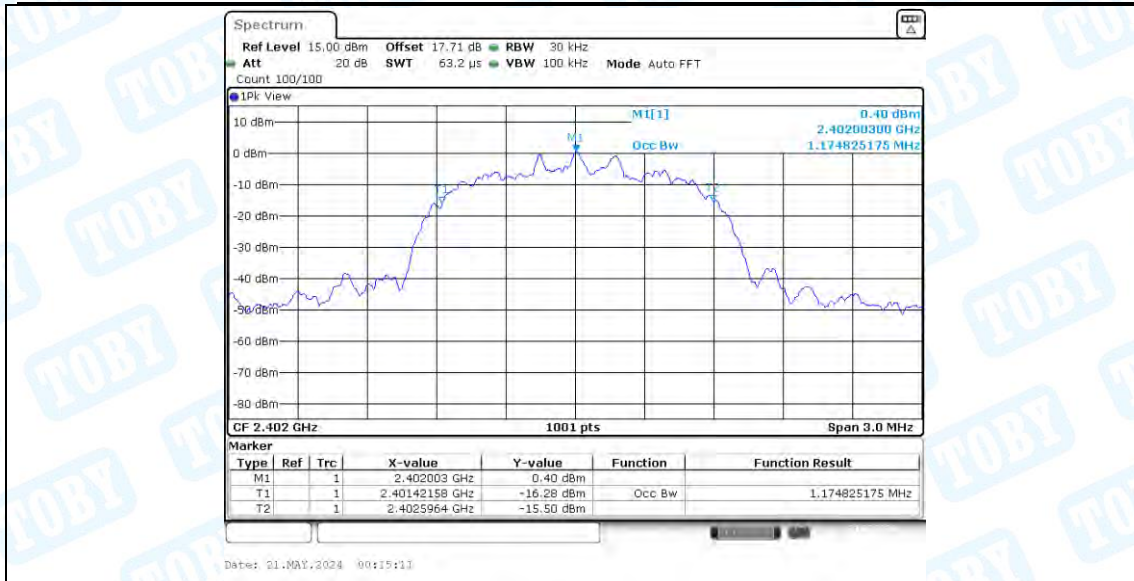
2DH5_Ant1_2441



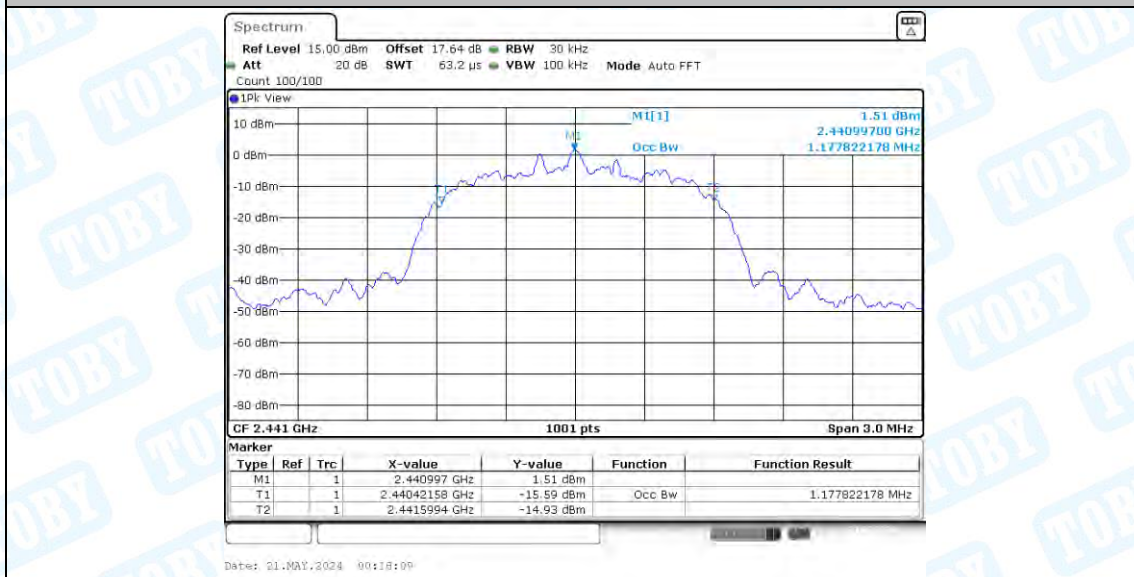
2DH5_Ant1_2480



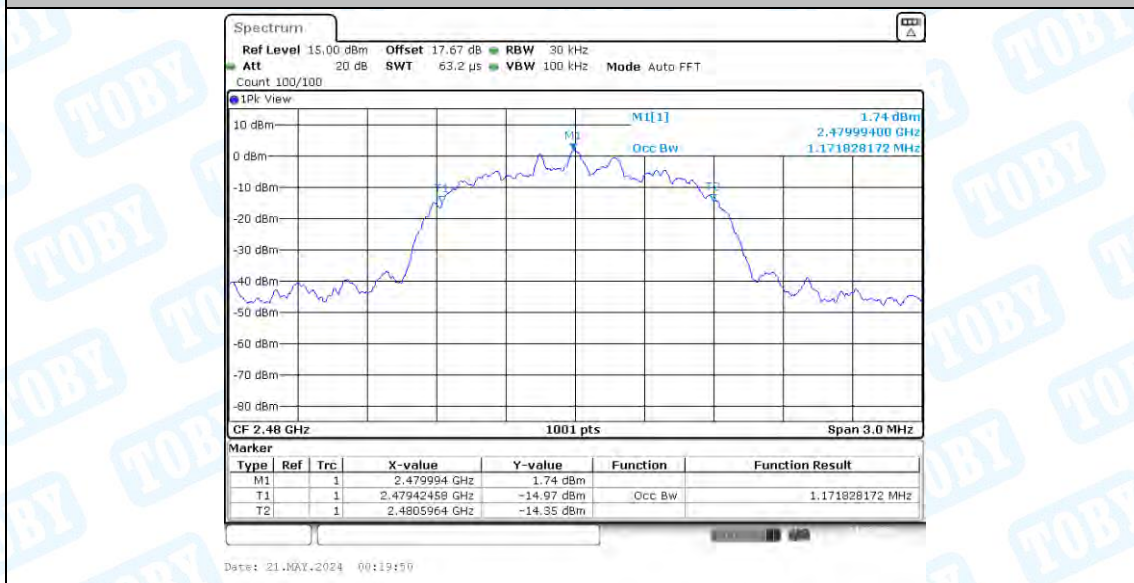
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



3. Maximum conducted output power

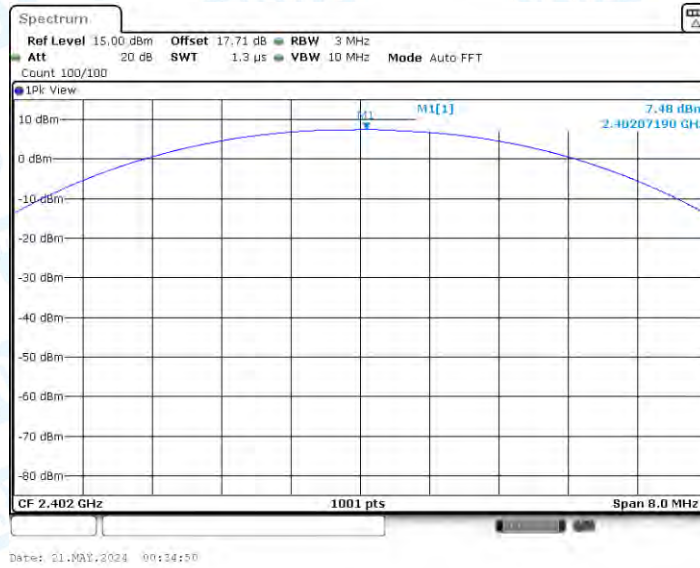
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	6.72	≤21	PASS
		2441	7.33	≤21	PASS
		2480	7.38	≤21	PASS
2DH5	Ant1	2402	7.48	≤21	PASS
		2441	7.93	≤21	PASS
		2480	7.78	≤21	PASS
3DH5	Ant1	2402	7.71	≤21	PASS
		2441	8.03	≤21	PASS
		2480	7.97	≤21	PASS

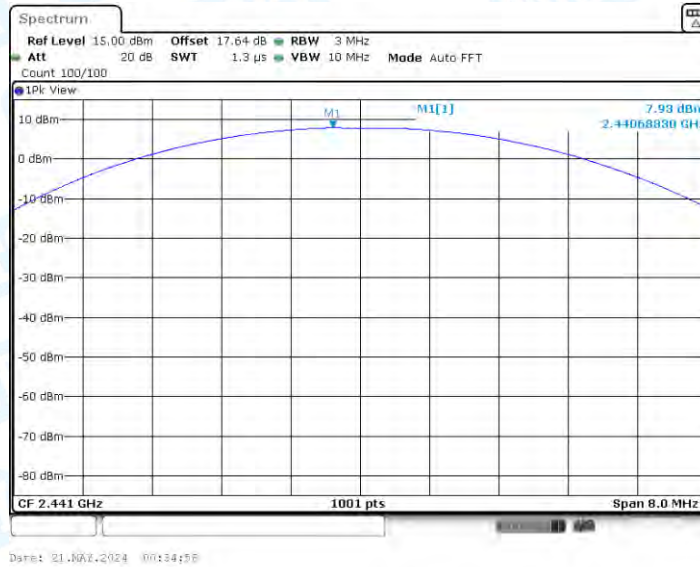
3.2. Test Graphs



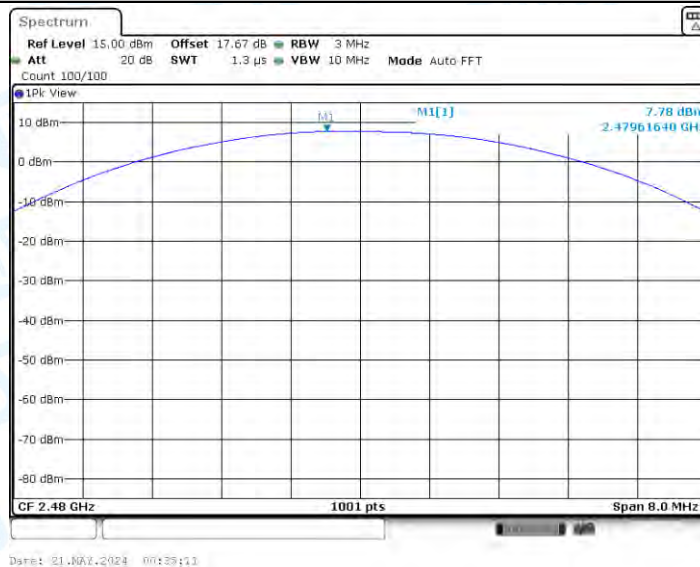
2DH5_Ant1_2402



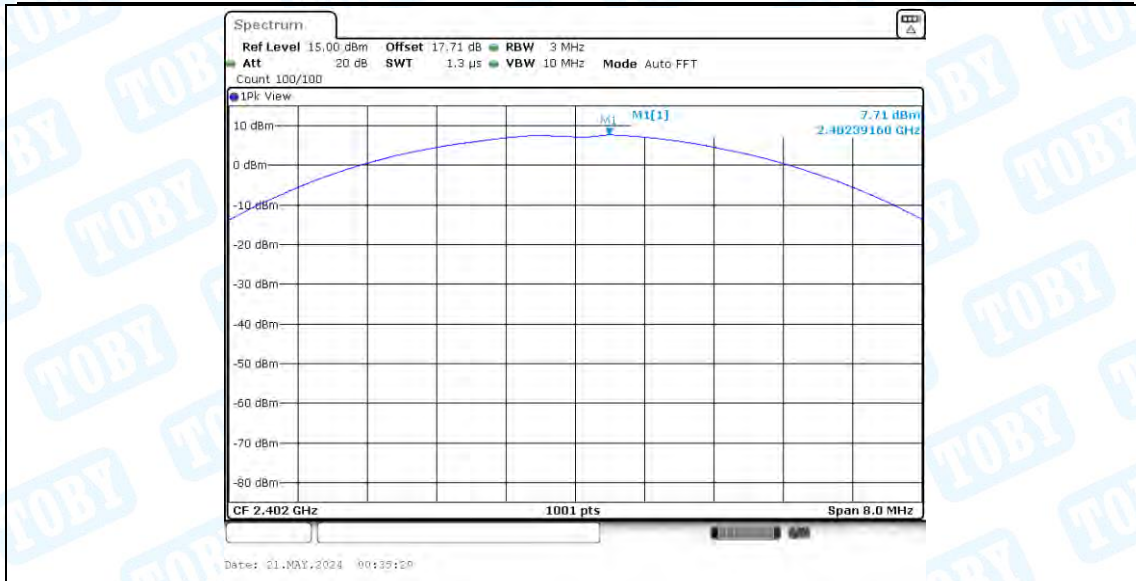
2DH5_Ant1_2441



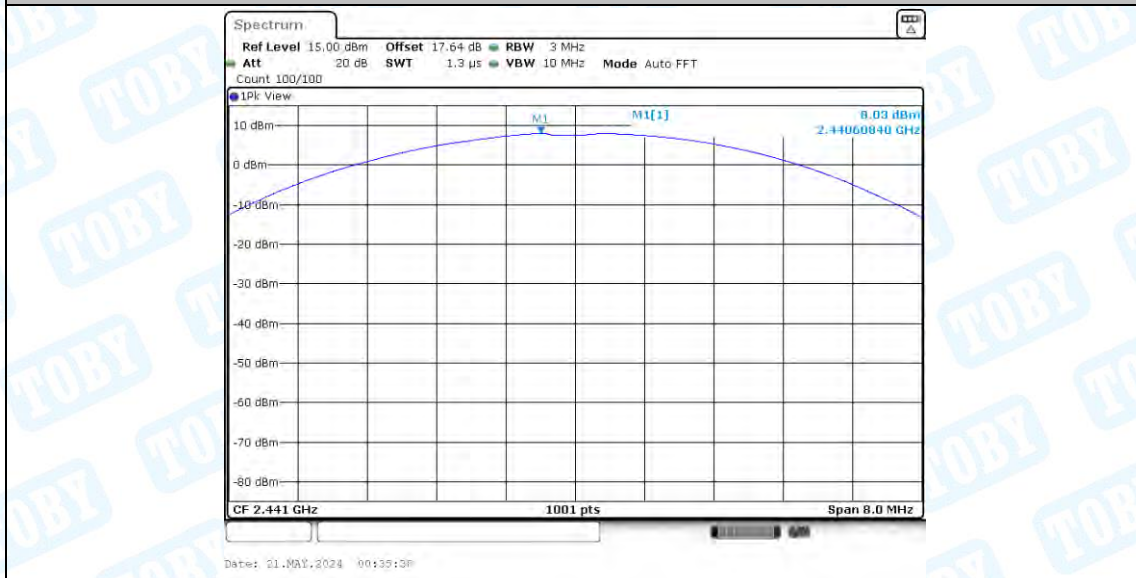
2DH5_Ant1_2480



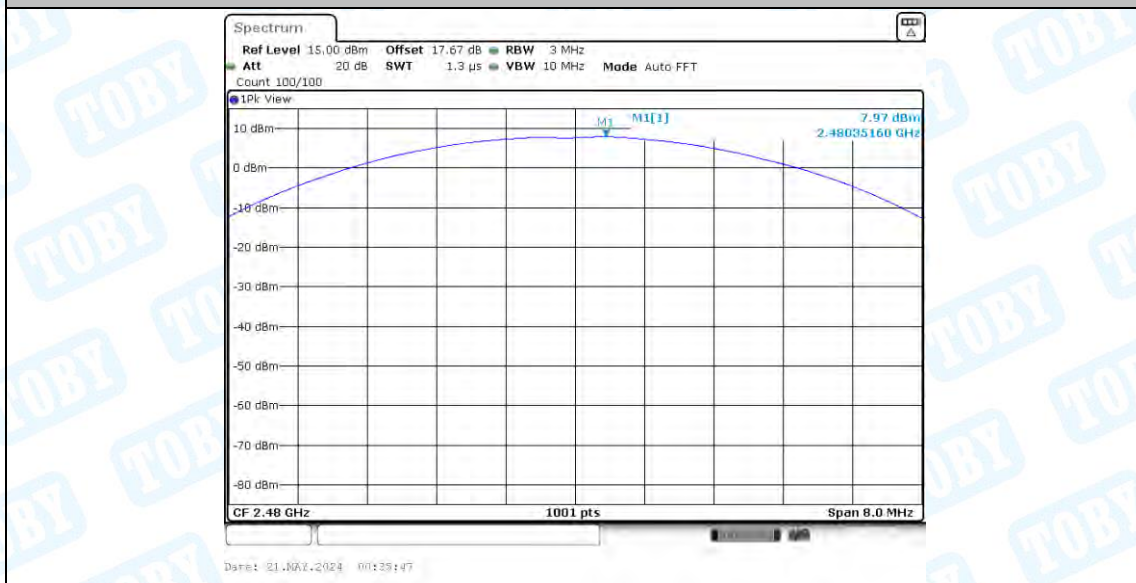
3DH5_Ant1_2402



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	1	≥ 0.633	PASS
2DH5	Ant1	Hop	0.875	≥ 0.873	PASS
3DH5	Ant1	Hop	0.870	≥ 0.867	PASS

4.2. Test Graphs

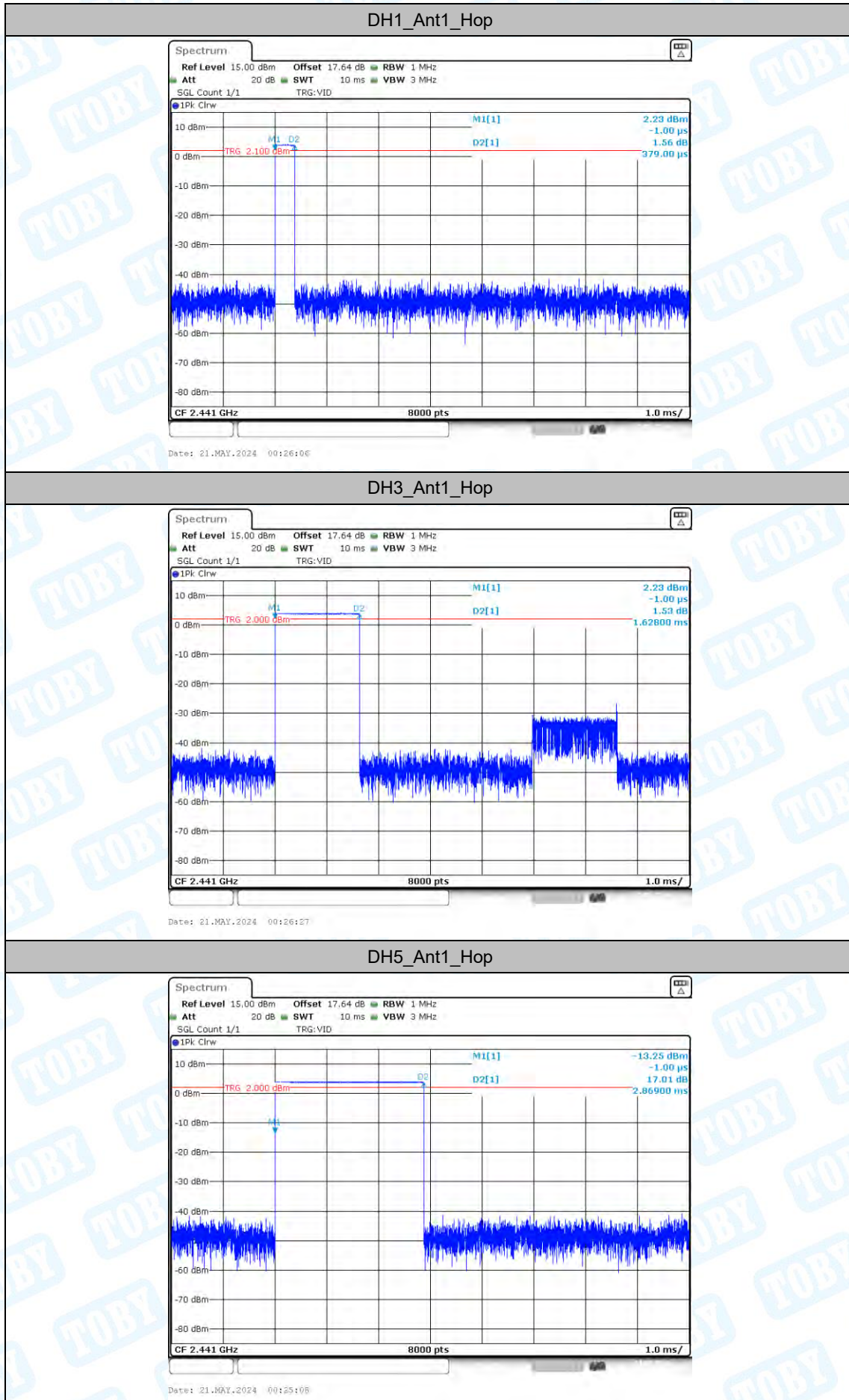


5. Time of occupancy

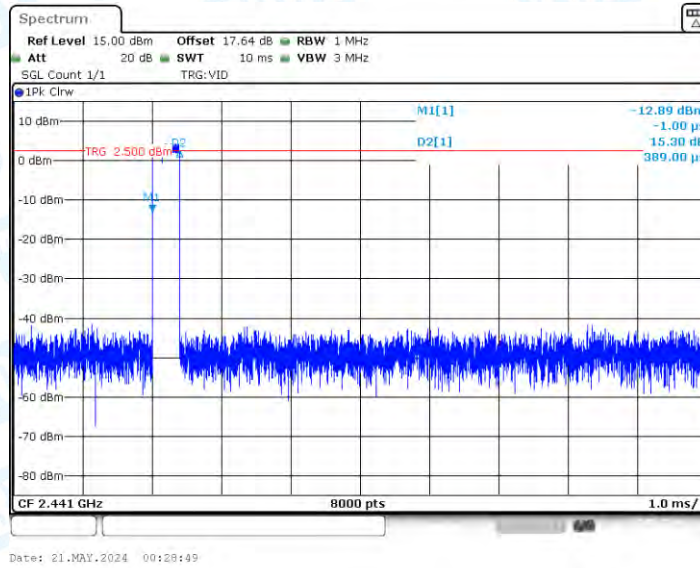
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.628	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.869	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.389	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.633	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.874	106.67	0.307	≤0.4	PASS
3DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.875	106.67	0.307	≤0.4	PASS

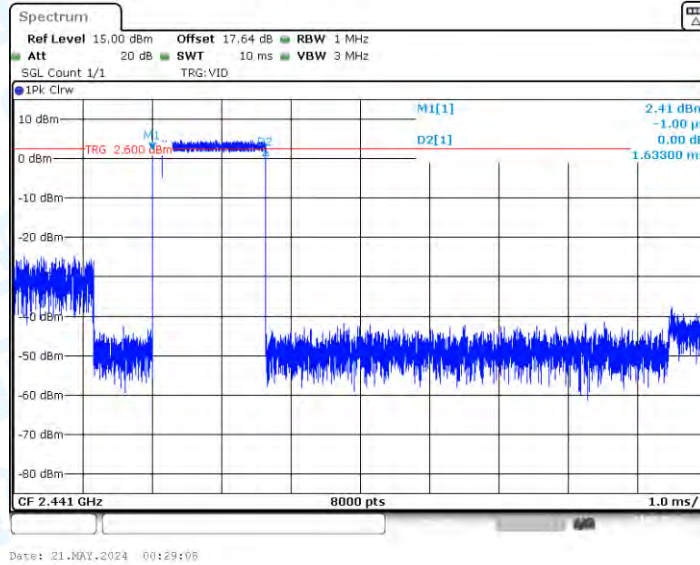
5.2.Test Graphs



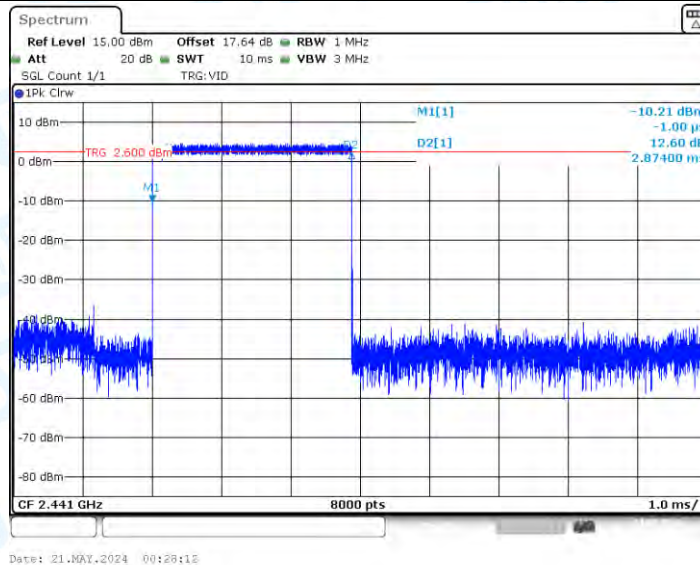
2DH1_Ant1_Hop



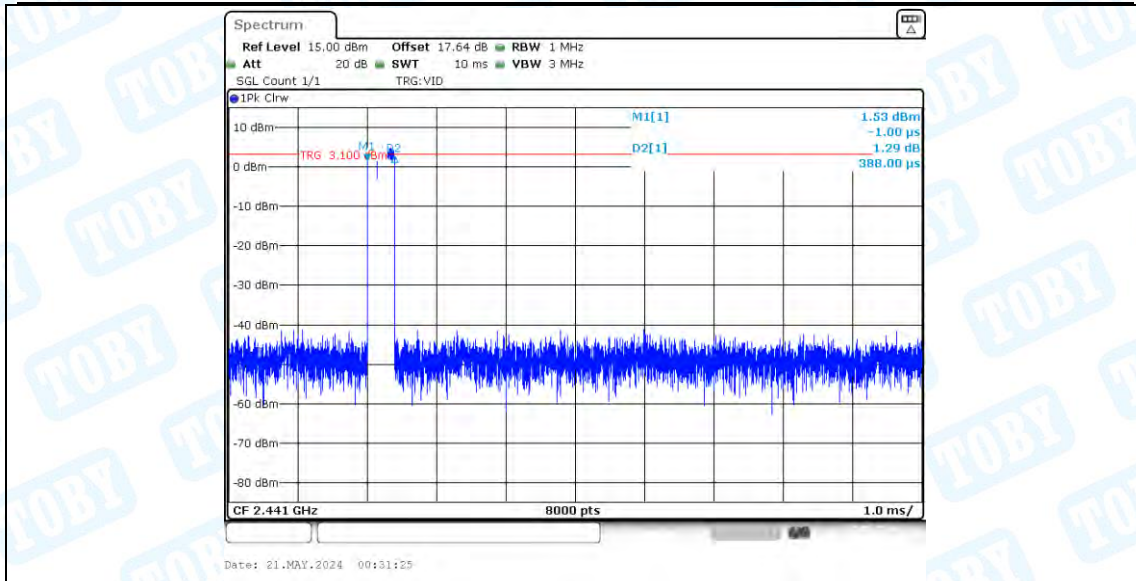
2DH3_Ant1_Hop



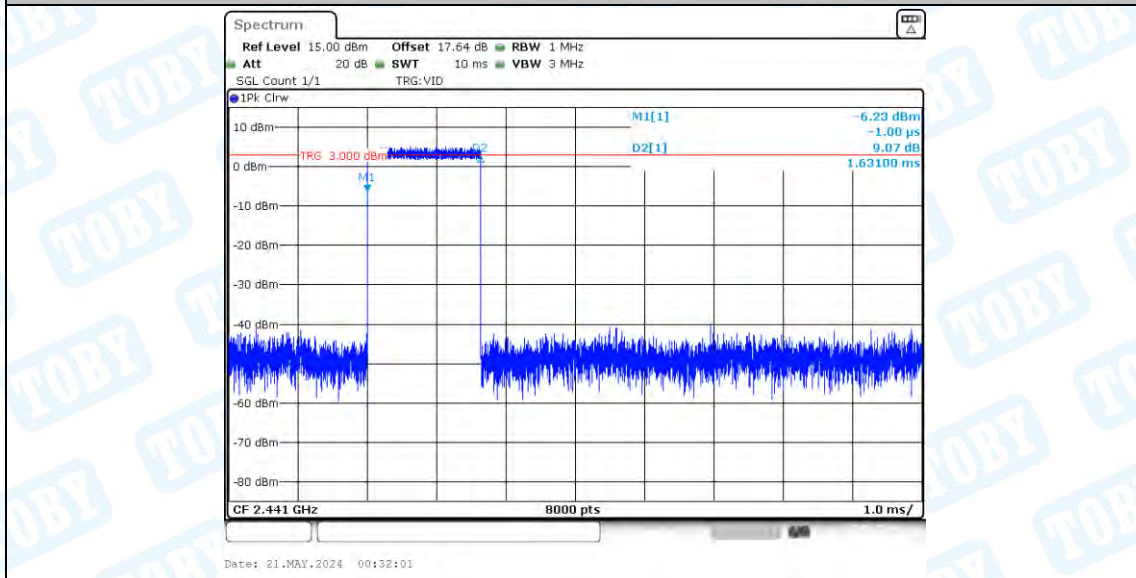
2DH5_Ant1_Hop



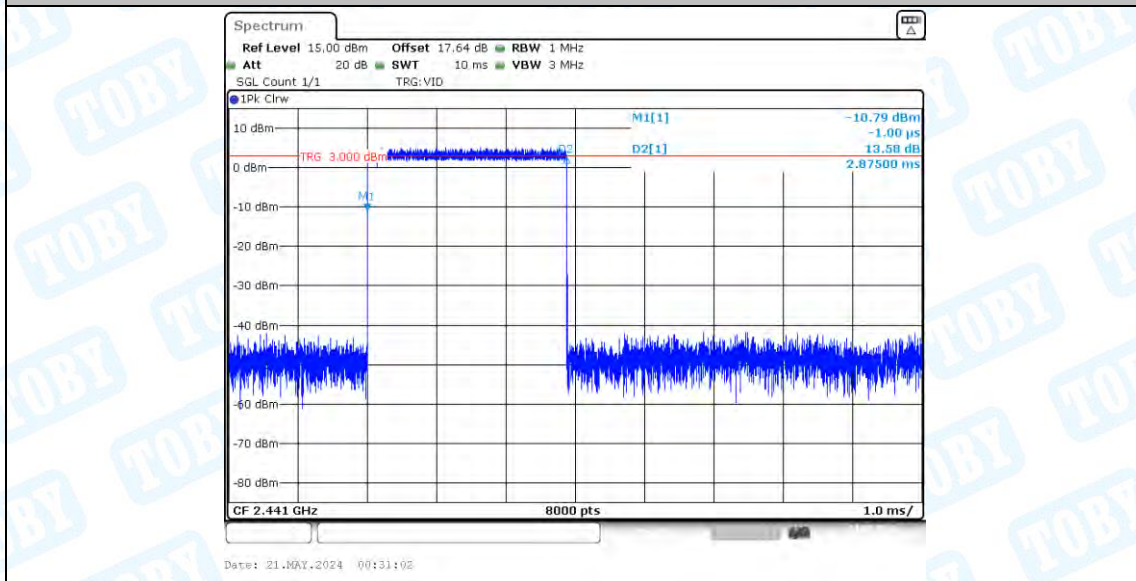
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

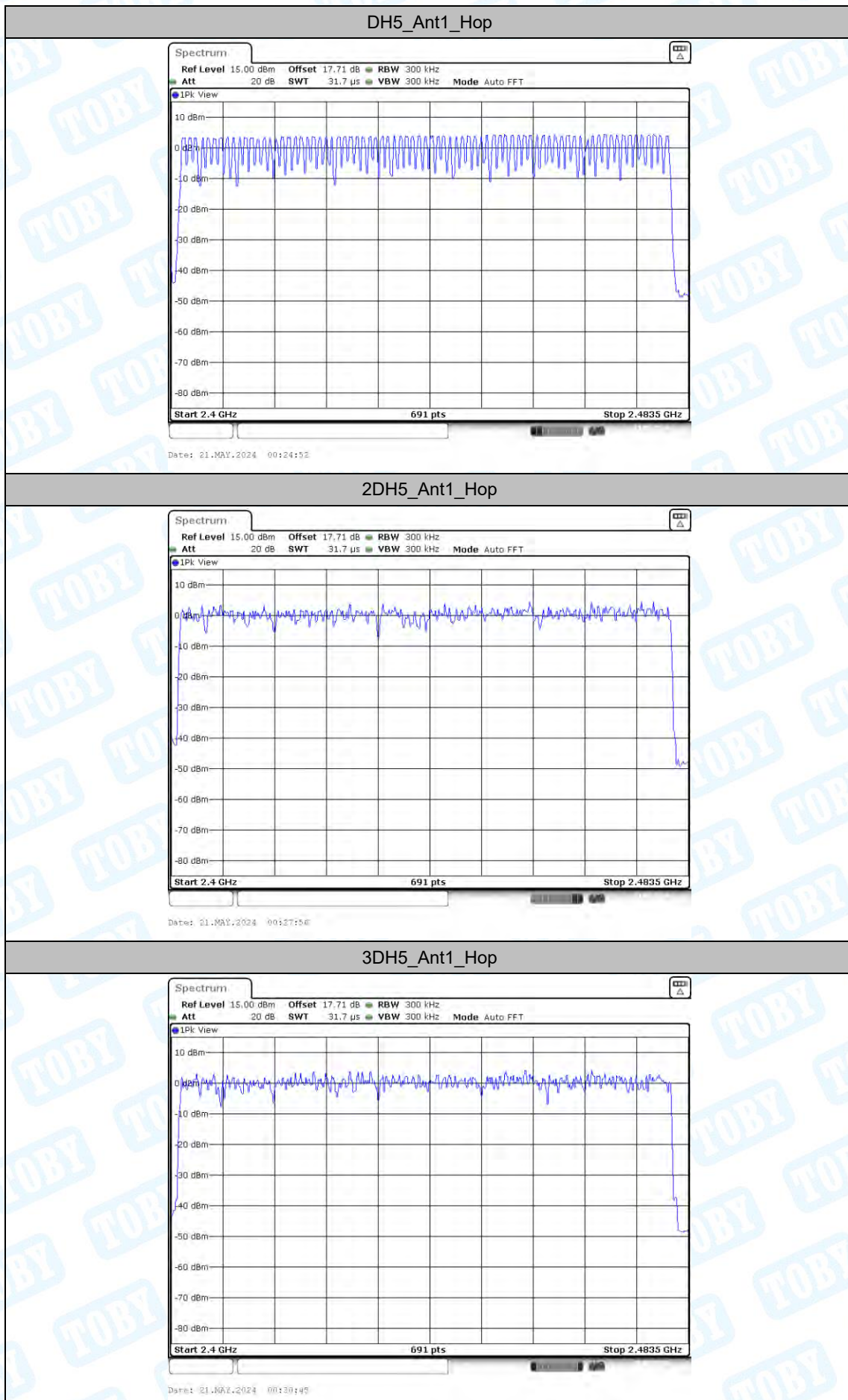


6. Number of hopping channels

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

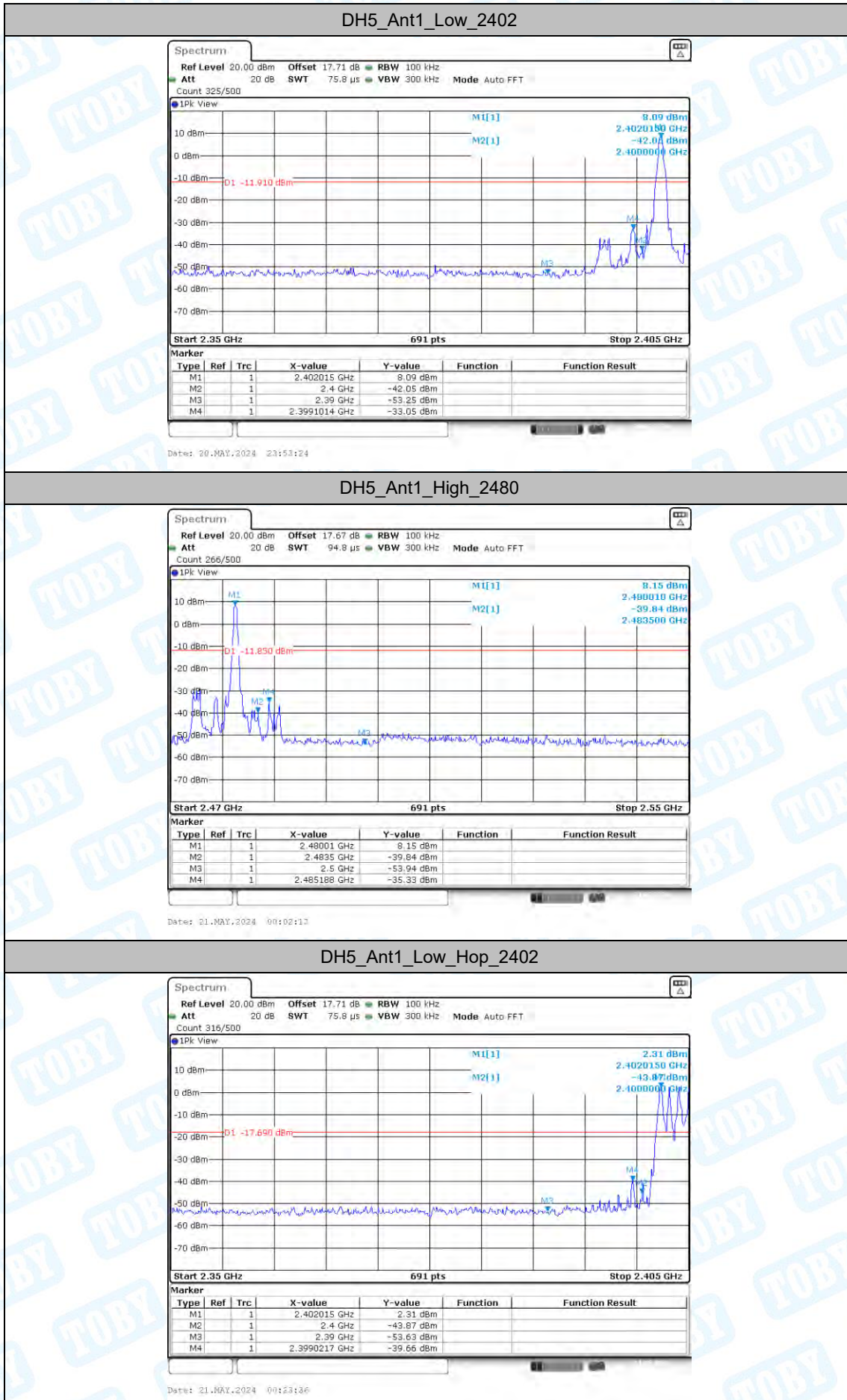


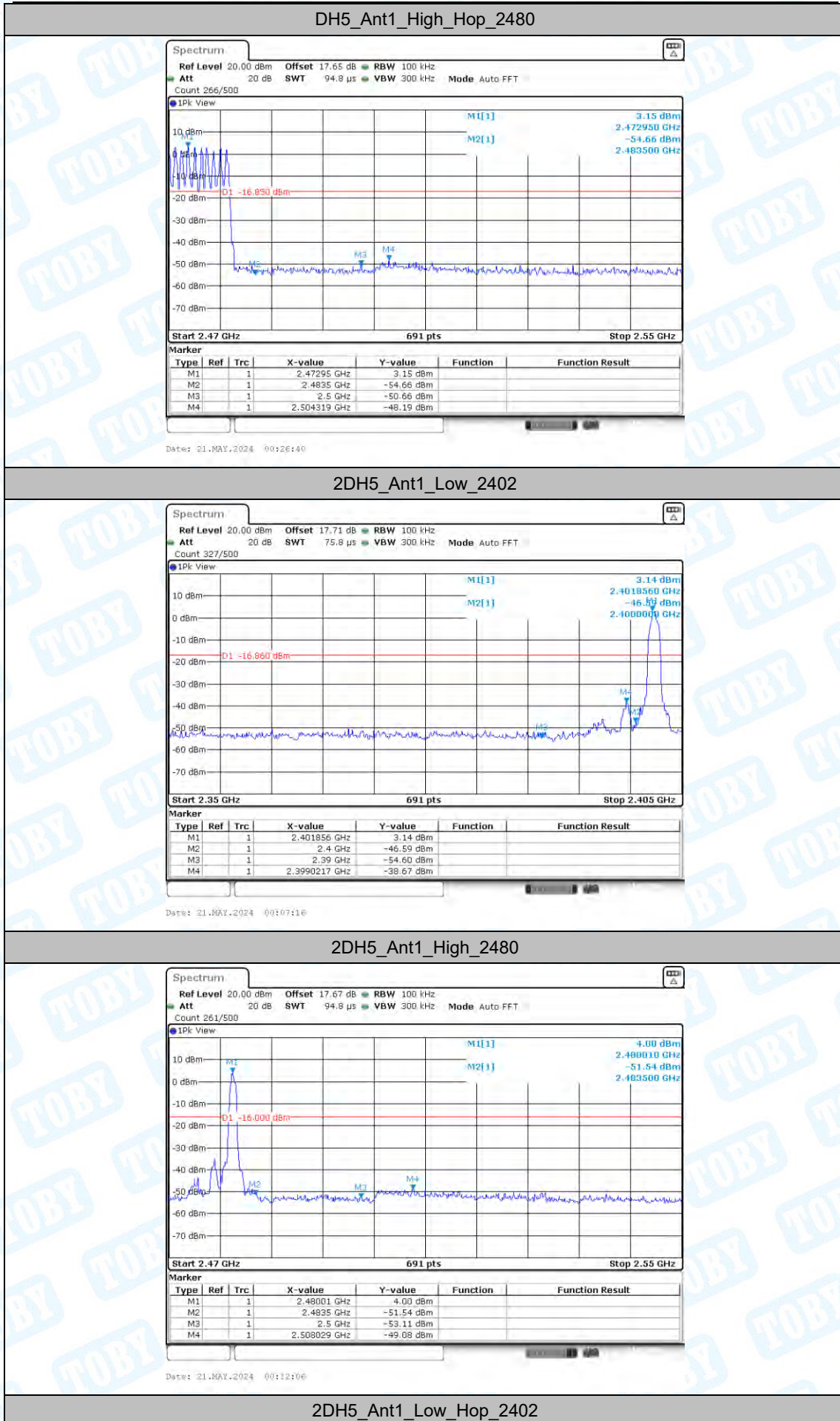
7. Band edge measurements

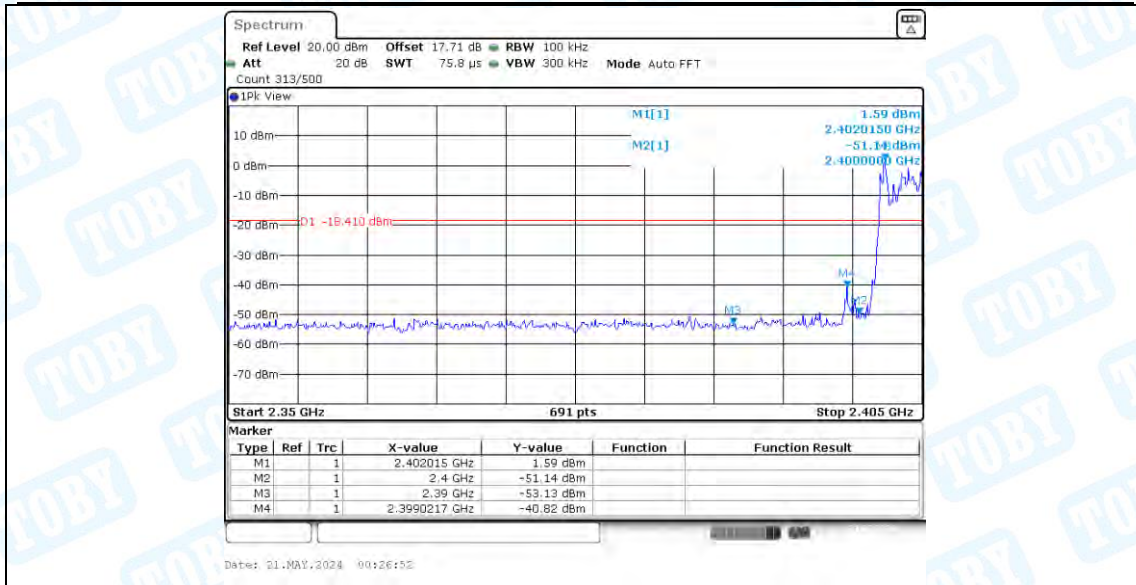
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	8.09	-33.05	≤-11.91	PASS
		High	2480	8.15	-35.33	≤-11.85	PASS
		Low	Hop_2402	2.31	-39.66	≤-17.69	PASS
		High	Hop_2480	3.15	-48.19	≤-16.85	PASS
2DH5	Ant1	Low	2402	3.14	-38.67	≤-16.86	PASS
		High	2480	4.00	-49.08	≤-16	PASS
		Low	Hop_2402	1.59	-40.82	≤-18.41	PASS
		High	Hop_2480	0.34	-48.79	≤-19.66	PASS
3DH5	Ant1	Low	2402	3.14	-38.92	≤-16.86	PASS
		High	2480	3.88	-49.35	≤-16.12	PASS
		Low	Hop_2402	-1.16	-46.63	≤-21.16	PASS
		High	Hop_2480	2.70	-50.2	≤-17.3	PASS

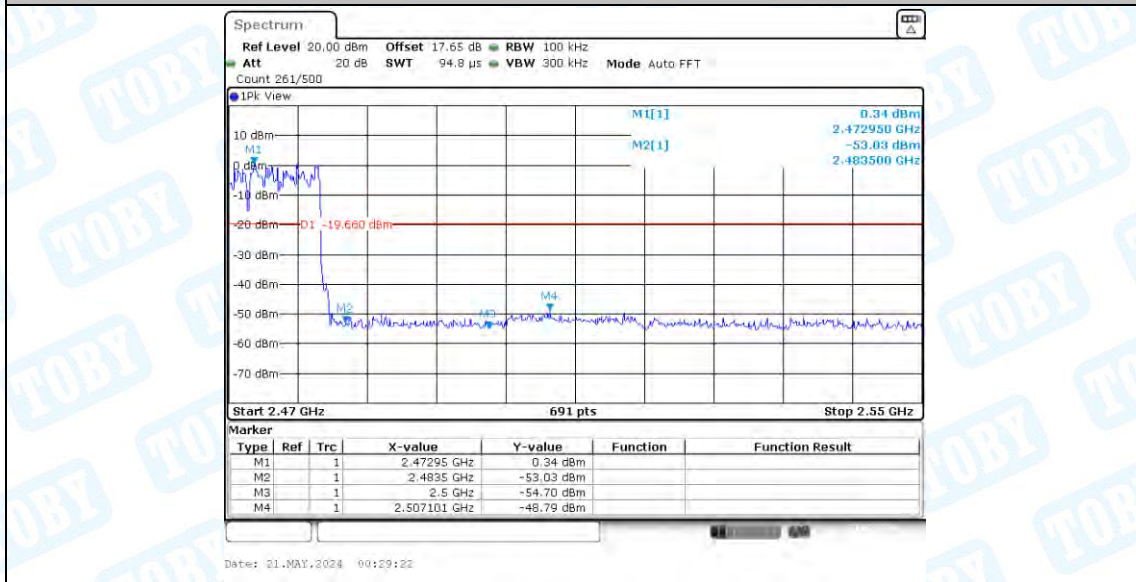
7.2.Test Graphs



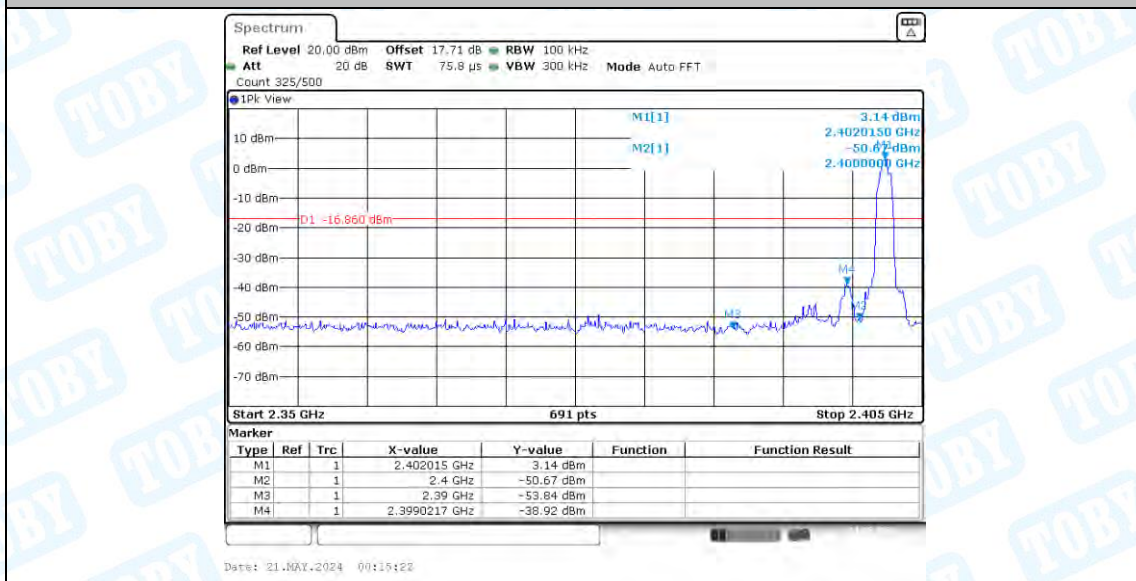




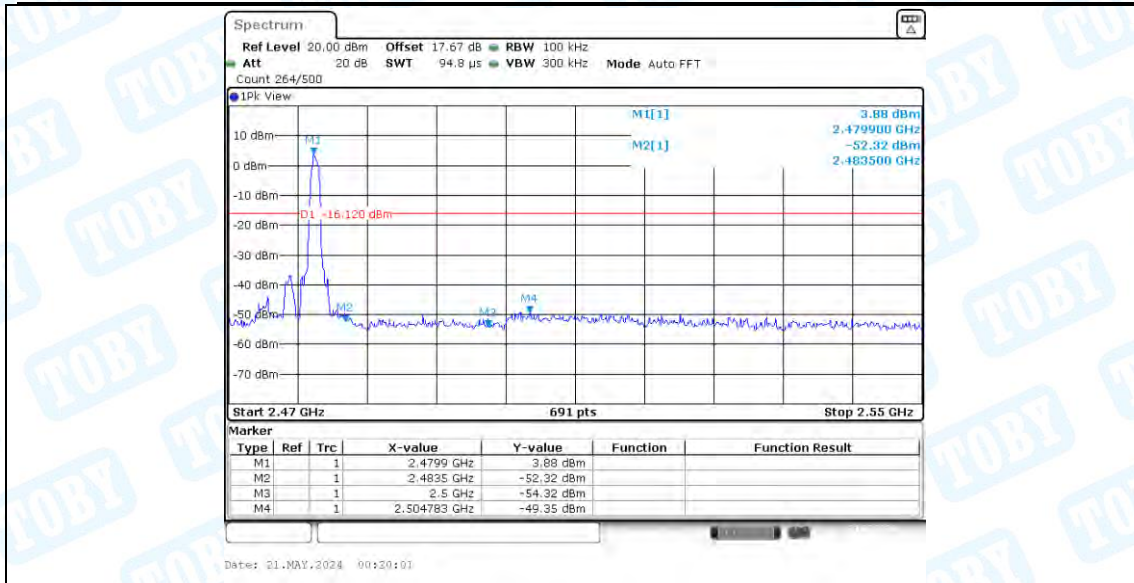
2DH5_Ant1_High_Hop_2480



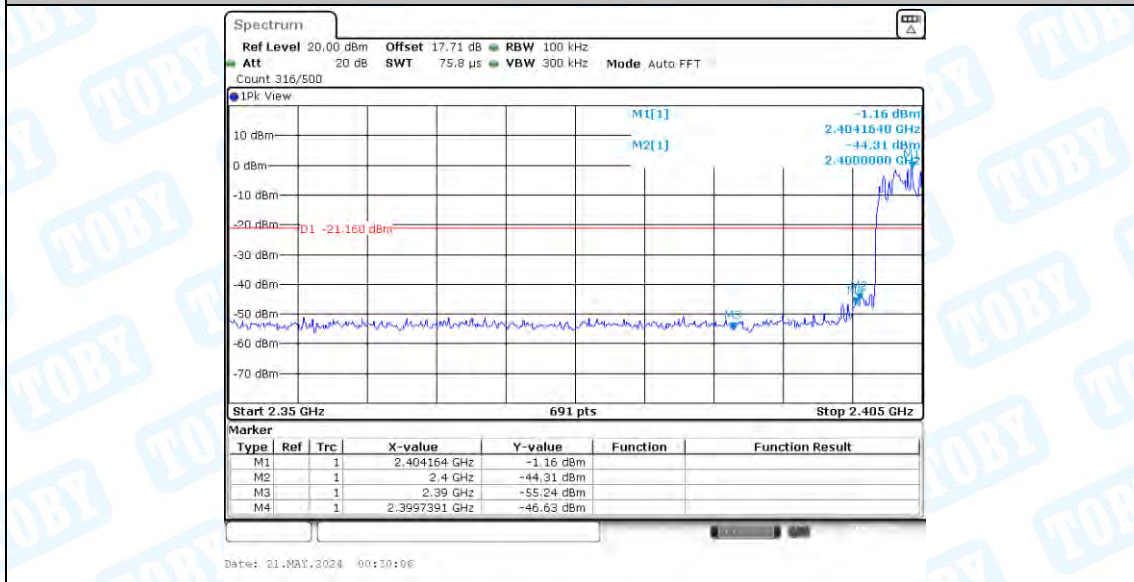
3DH5_Ant1_Low_2402



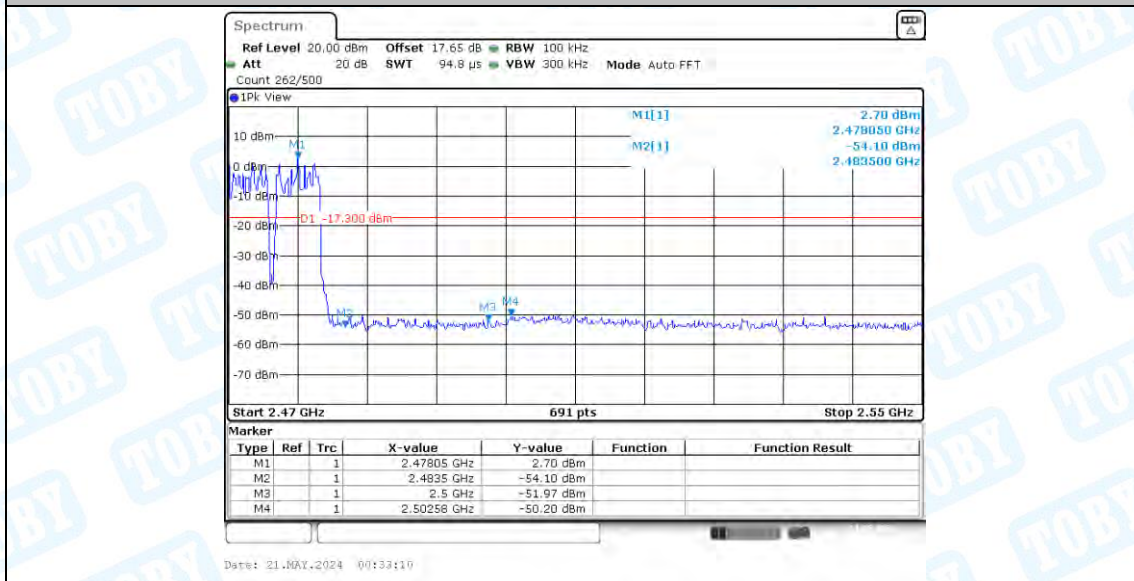
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

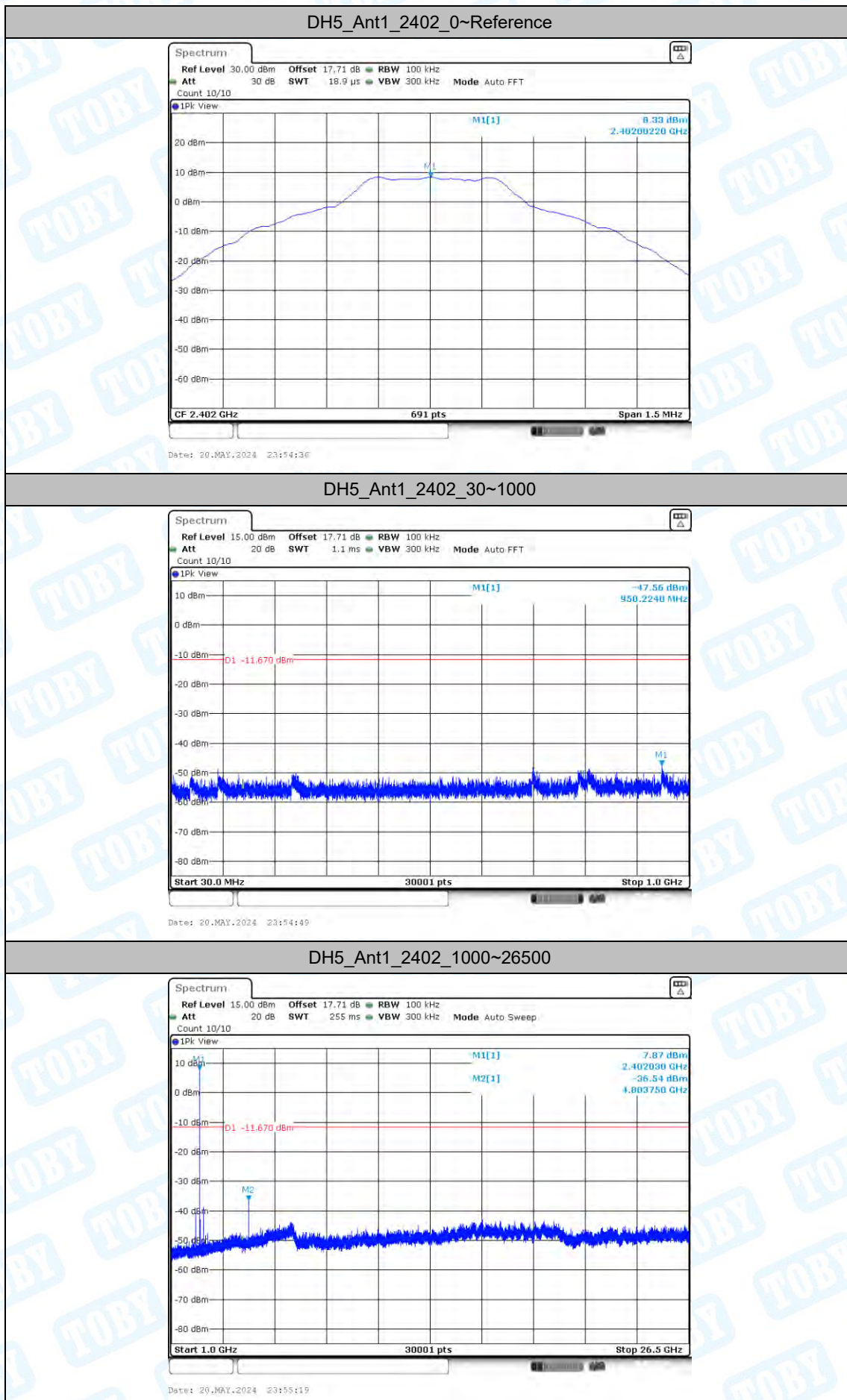


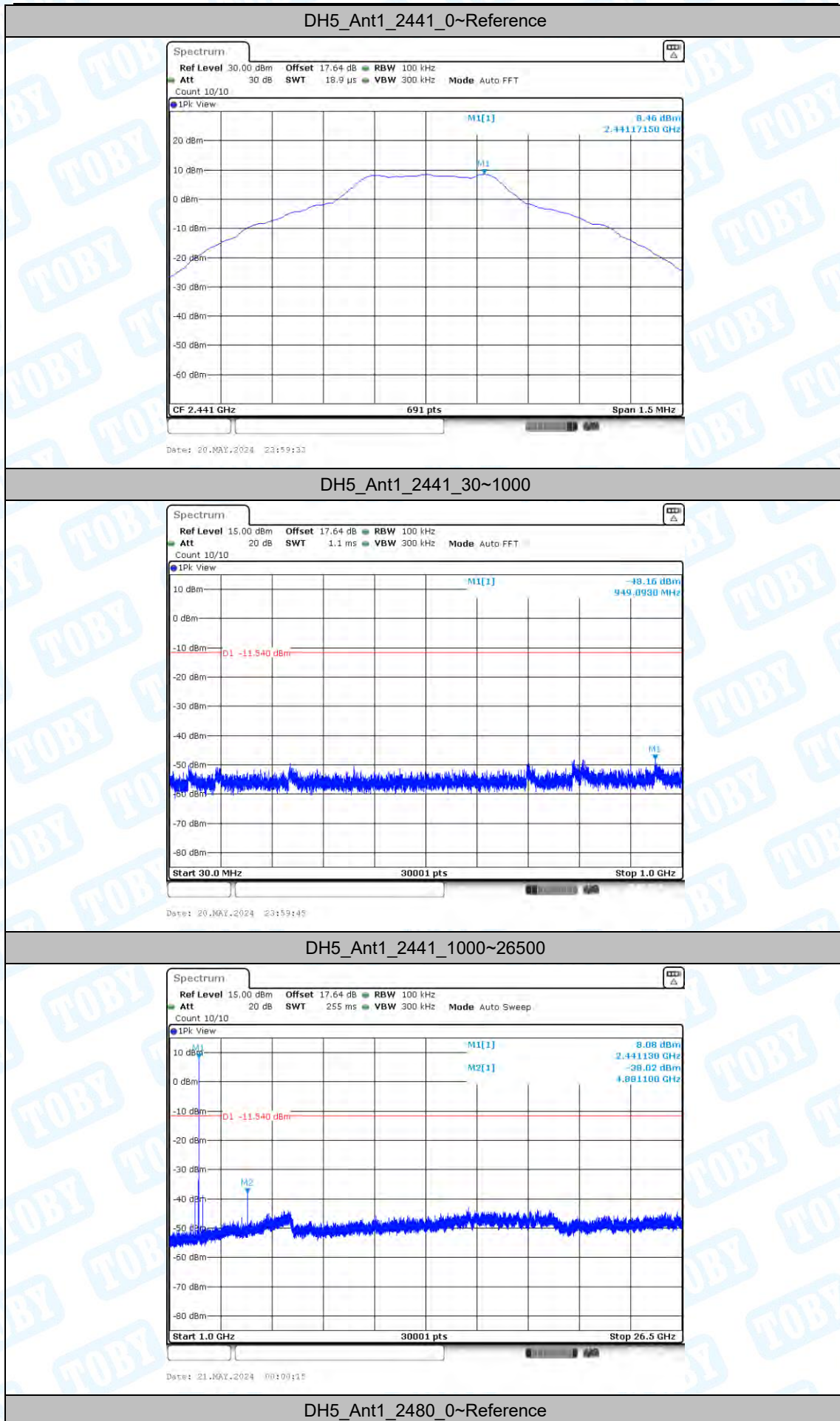
8. Conducted Spurious Emission

8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	8.33	8.33	---	PASS
			30~1000	8.33	-47.56	≤-11.67	PASS
			1000~26500	8.33	-36.54	≤-11.67	PASS
		2441	Reference	8.46	8.46	---	PASS
			30~1000	8.46	-48.16	≤-11.54	PASS
			1000~26500	8.46	-38.02	≤-11.54	PASS
		2480	Reference	3.98	3.98	---	PASS
			30~1000	3.98	-48.64	≤-16.02	PASS
			1000~26500	3.98	-42.22	≤-16.02	PASS
2DH5	Ant1	2402	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-48.34	≤-16.78	PASS
			1000~26500	3.22	-42.53	≤-16.78	PASS
		2441	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-48.23	≤-16.1	PASS
			1000~26500	3.90	-42.51	≤-16.1	PASS
		2480	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-48.38	≤-15.86	PASS
			1000~26500	4.14	-43.28	≤-15.86	PASS
3DH5	Ant1	2402	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-48.04	≤-16.8	PASS
			1000~26500	3.20	-43.02	≤-16.8	PASS
		2441	Reference	3.87	3.87	---	PASS
			30~1000	3.87	-48.96	≤-16.13	PASS
			1000~26500	3.87	-42.96	≤-16.13	PASS
		2480	Reference	4.11	4.11	---	PASS
			30~1000	4.11	-48.29	≤-15.89	PASS
			1000~26500	4.11	-42.82	≤-15.89	PASS

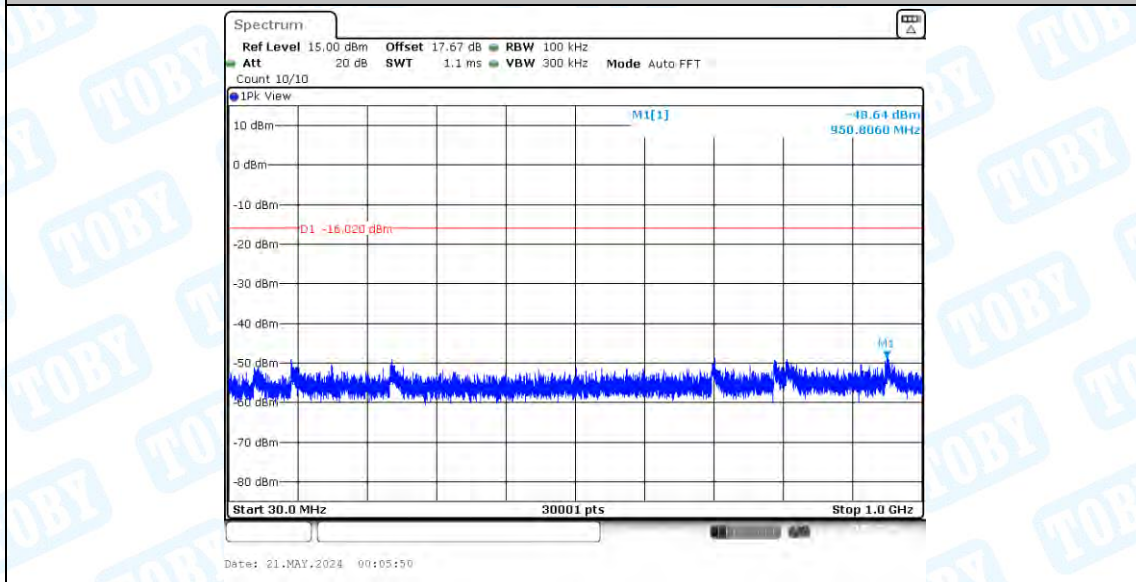
8.2.Test Graphs



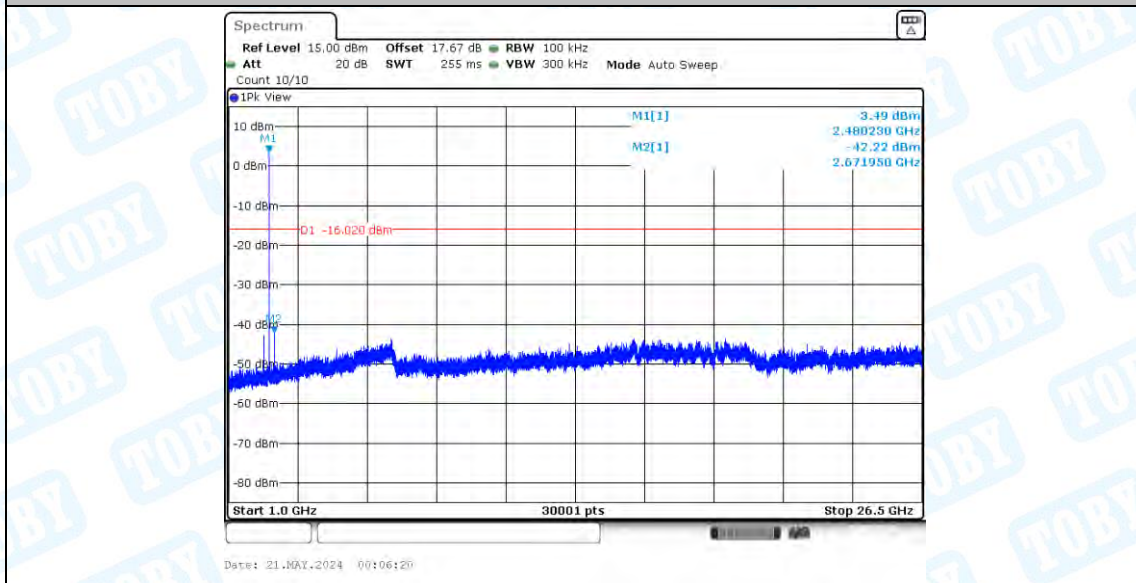




DH5_Ant1_2480_30~1000



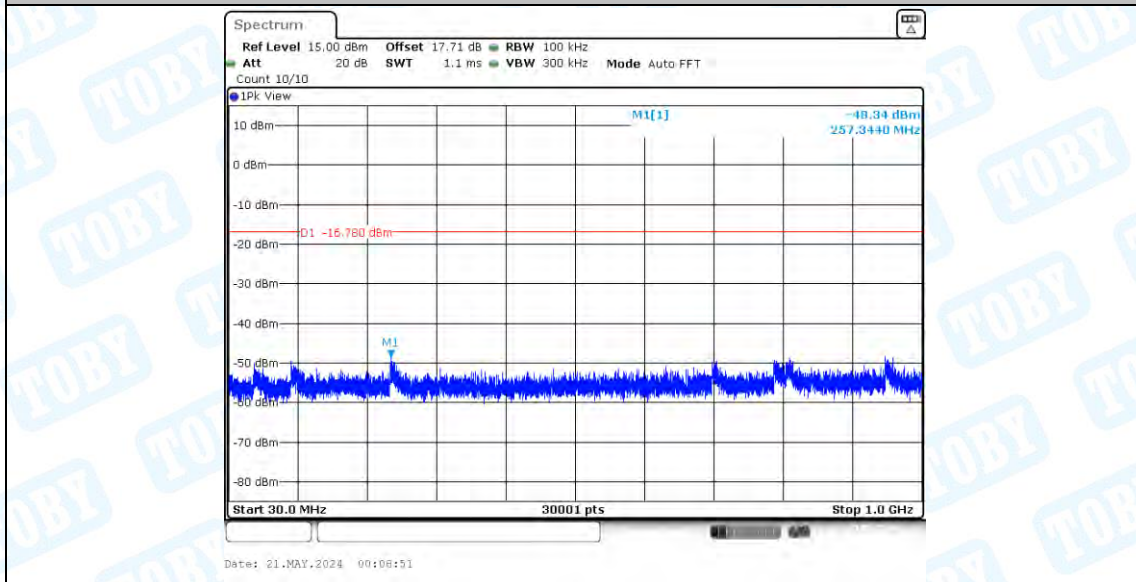
DH5_Ant1_2480_1000~26500



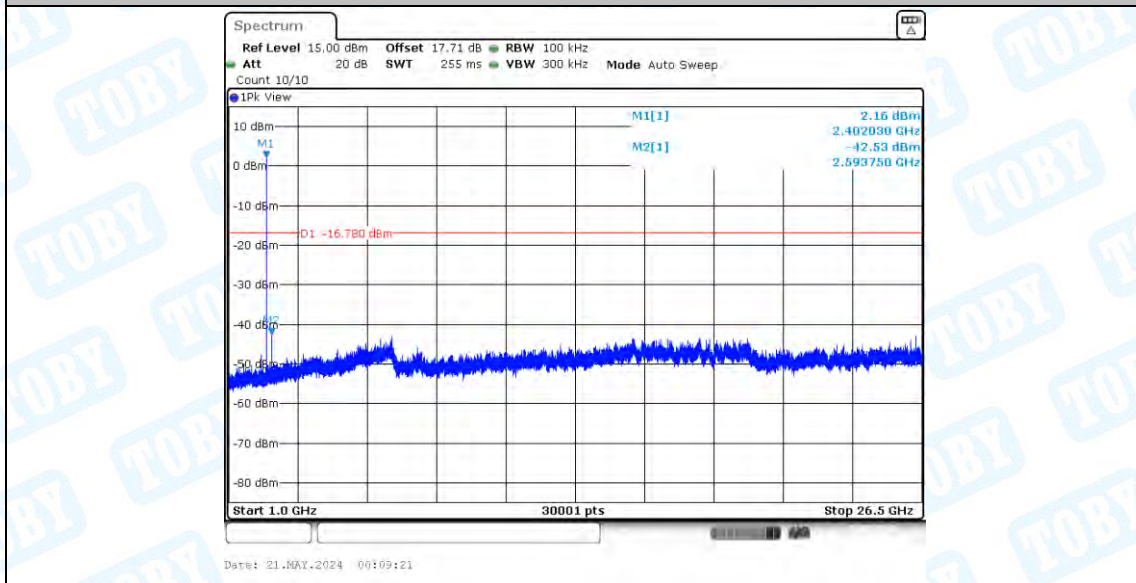
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



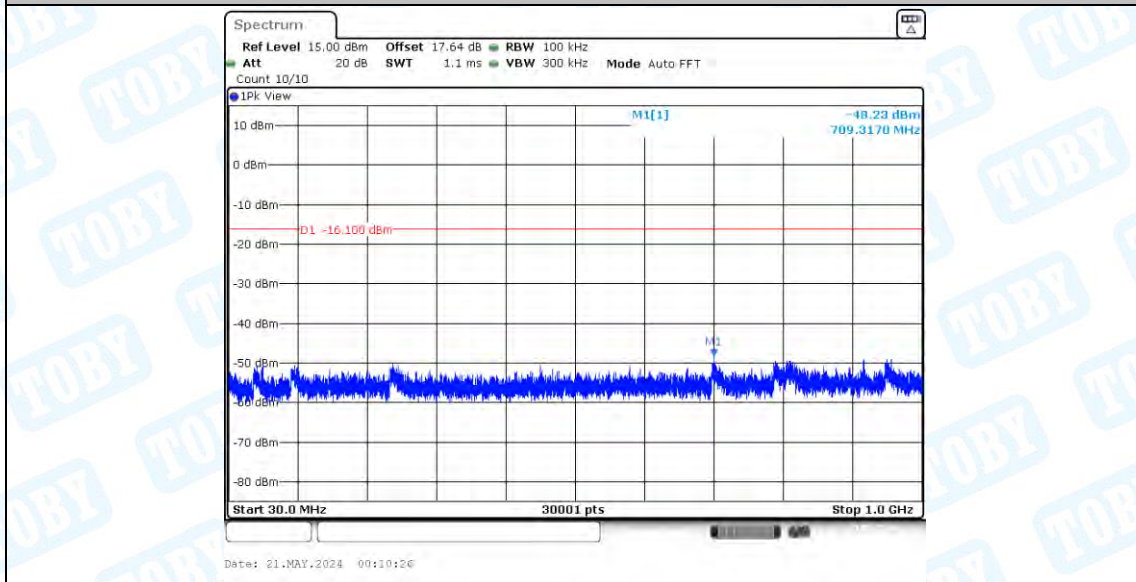
2DH5_Ant1_2402_1000~26500



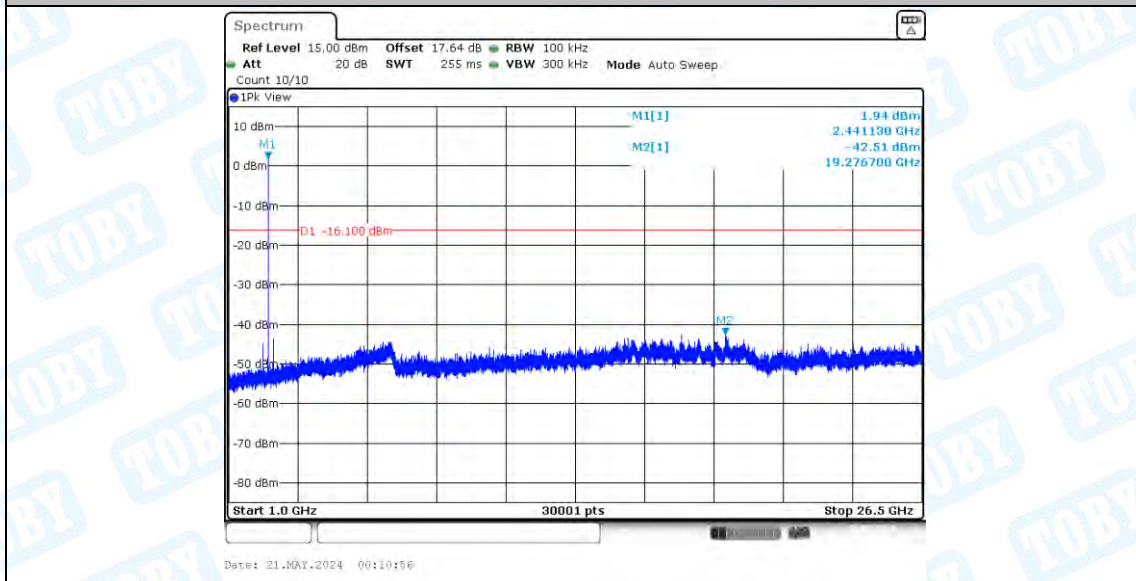
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



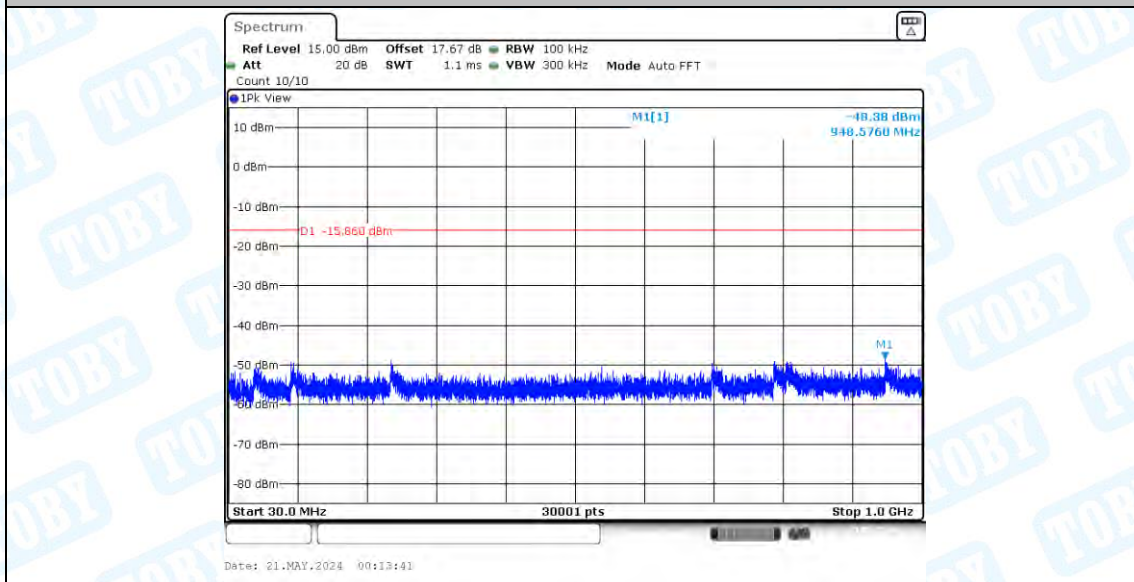
2DH5_Ant1_2441_1000~26500



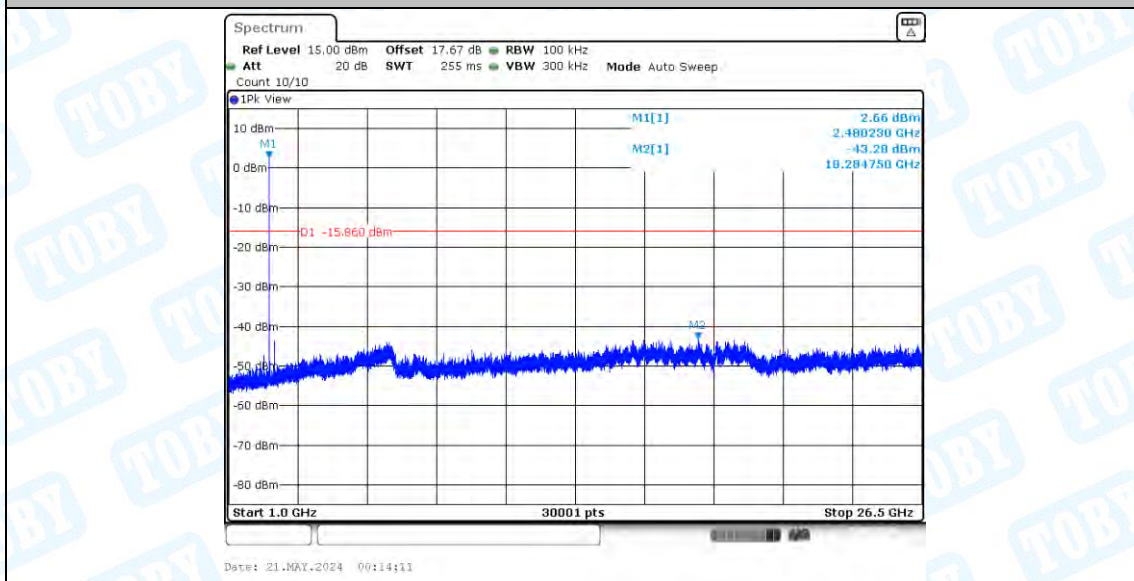
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



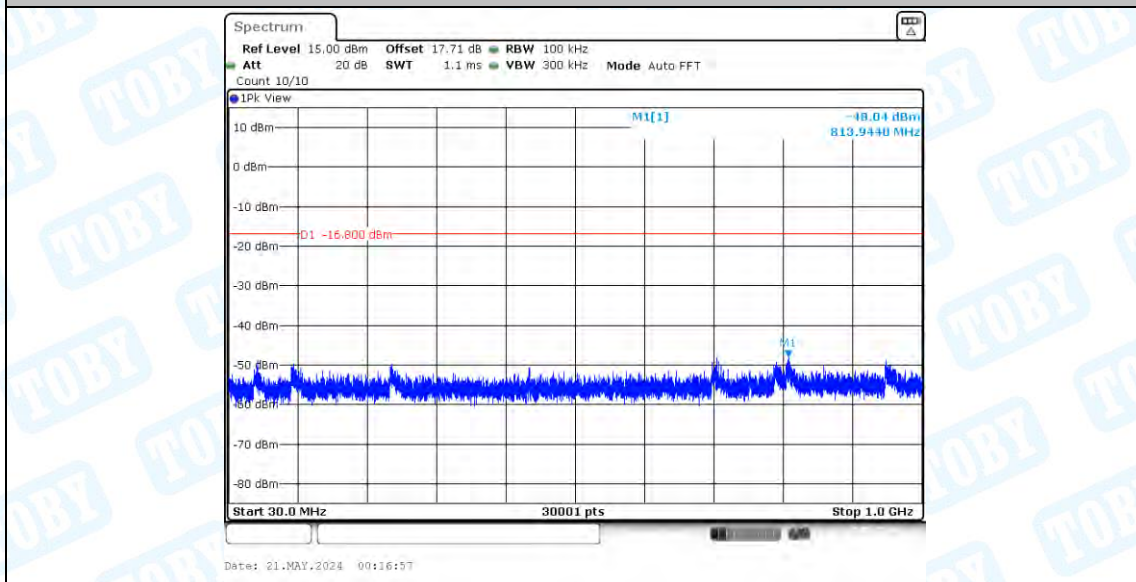
2DH5_Ant1_2480_1000~26500



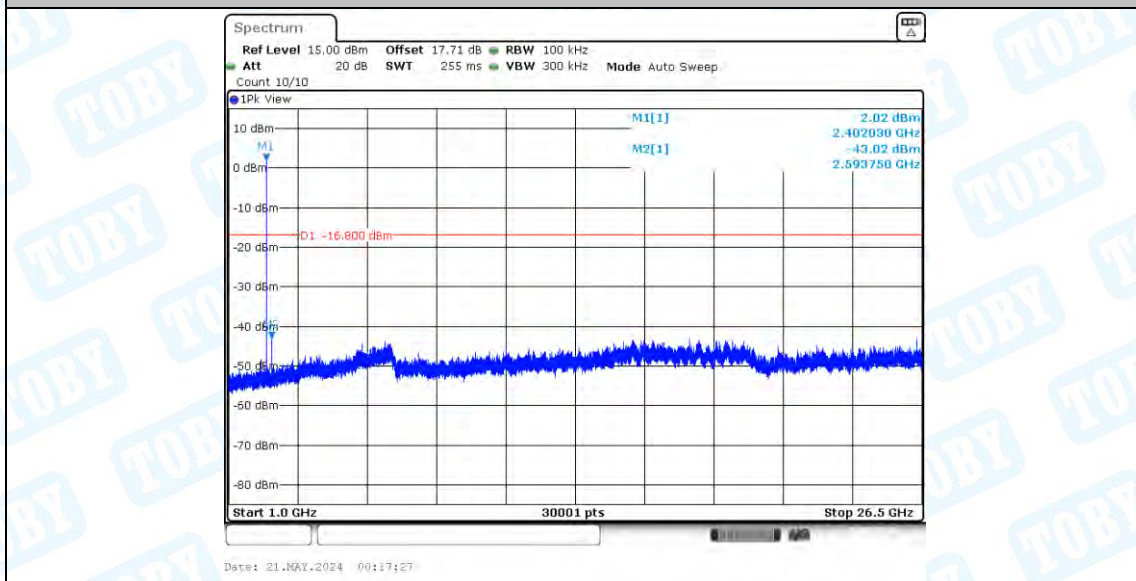
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



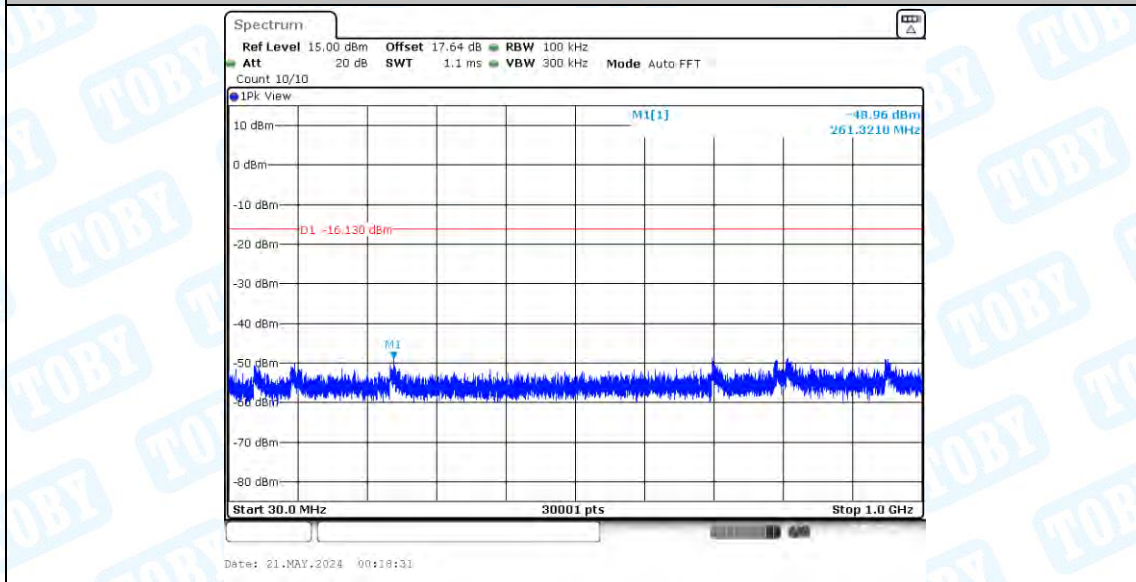
3DH5_Ant1_2402_1000~26500



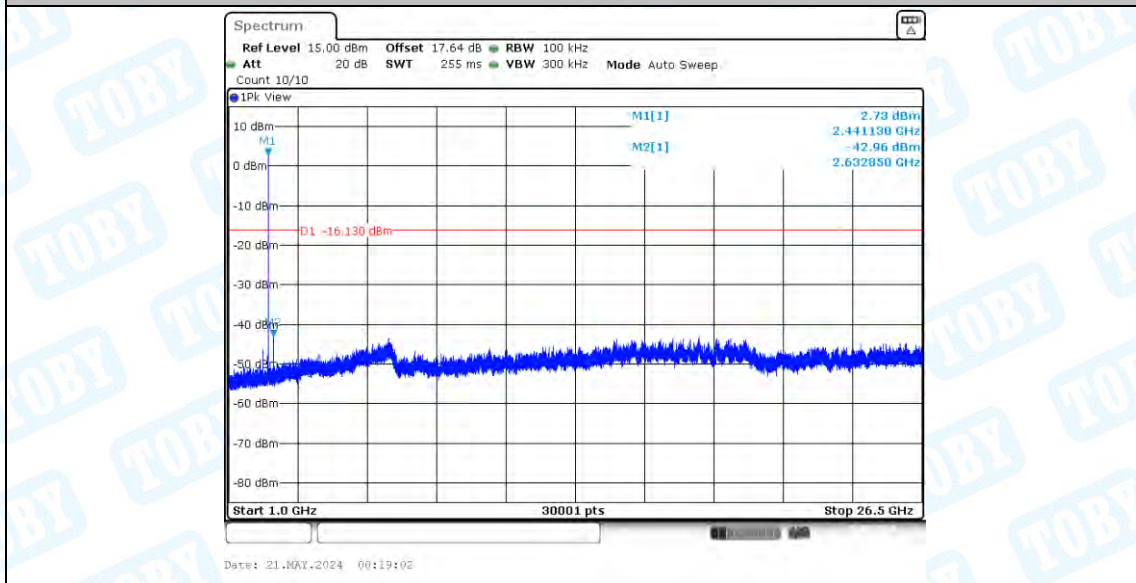
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



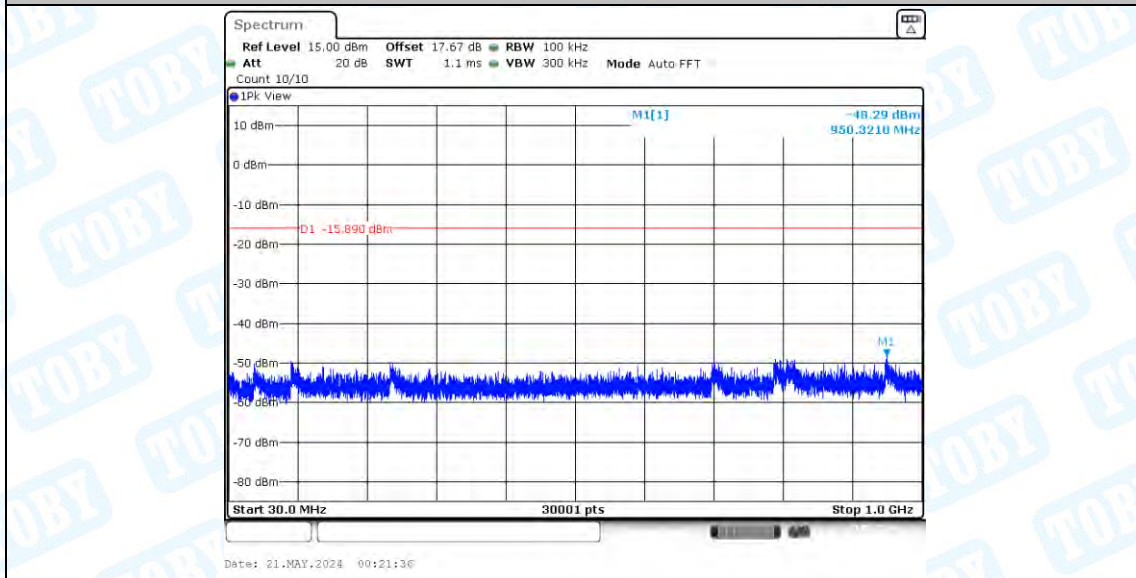
3DH5_Ant1_2441_1000~26500



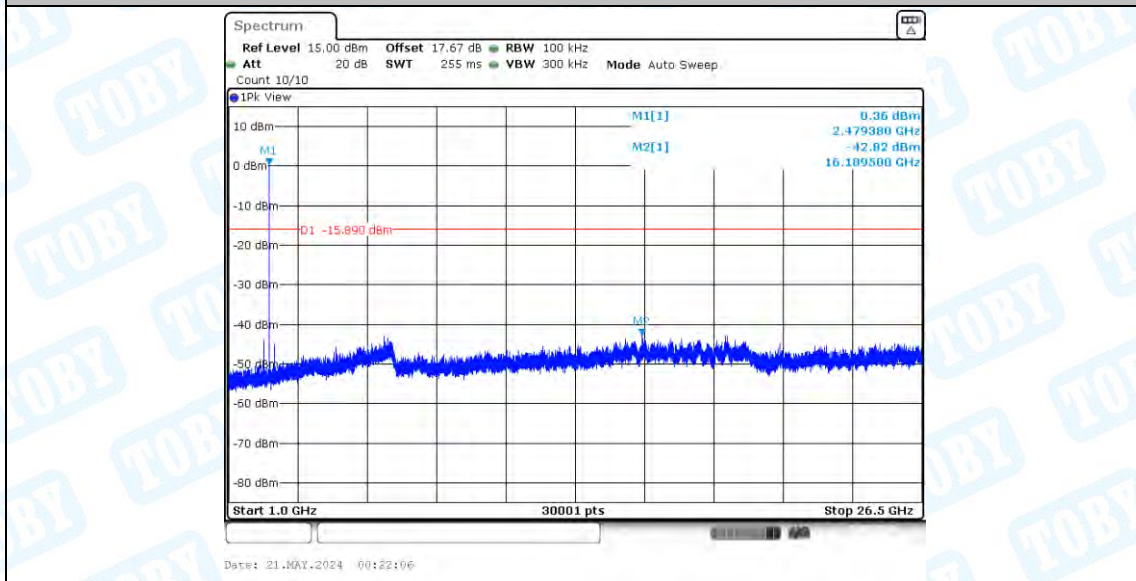
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

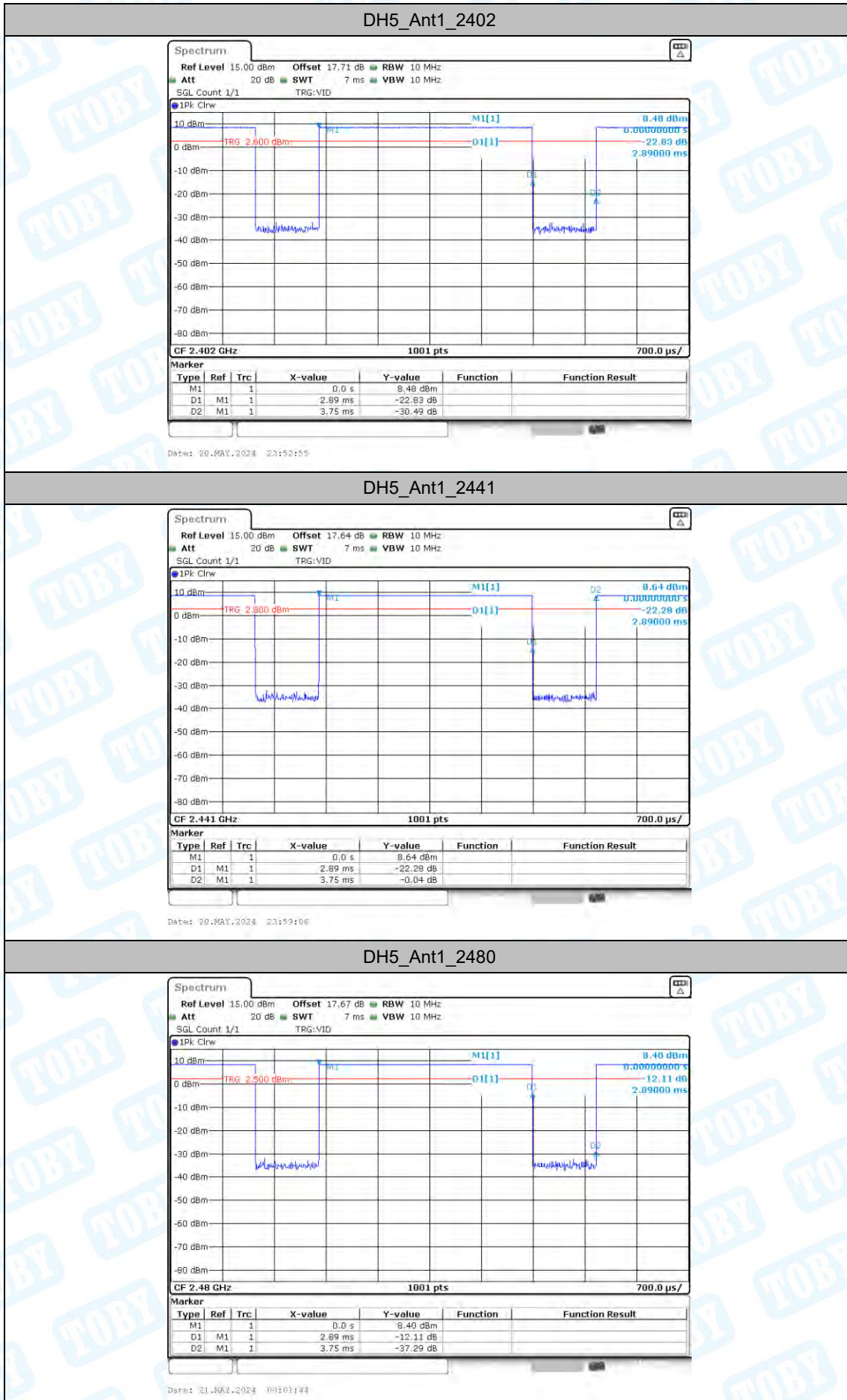


9. Duty Cycle

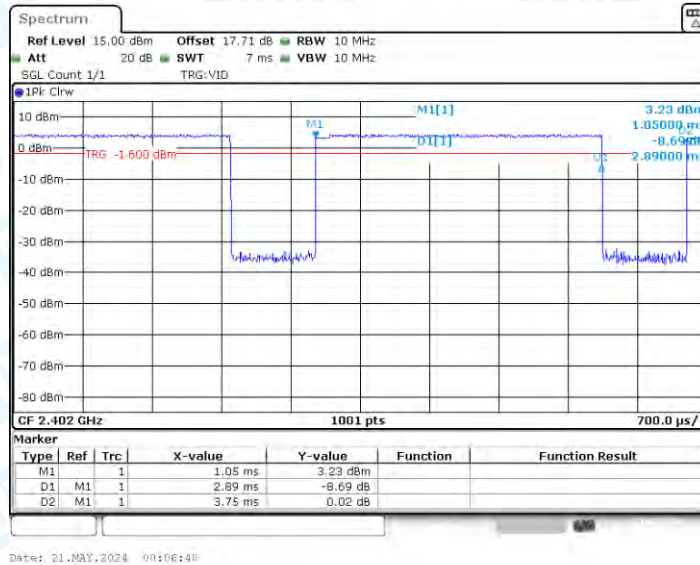
9.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	---	---
		2441	2.89	3.75	77.07	---	---
		2480	2.89	3.75	77.07	---	---
2DH5	Ant1	2402	2.89	3.75	77.07	---	---
		2441	2.90	3.75	77.33	---	---
		2480	2.89	3.75	77.07	---	---
3DH5	Ant1	2402	2.89	3.75	77.07	---	---
		2441	2.89	3.75	77.07	---	---
		2480	2.89	3.75	77.07	---	---

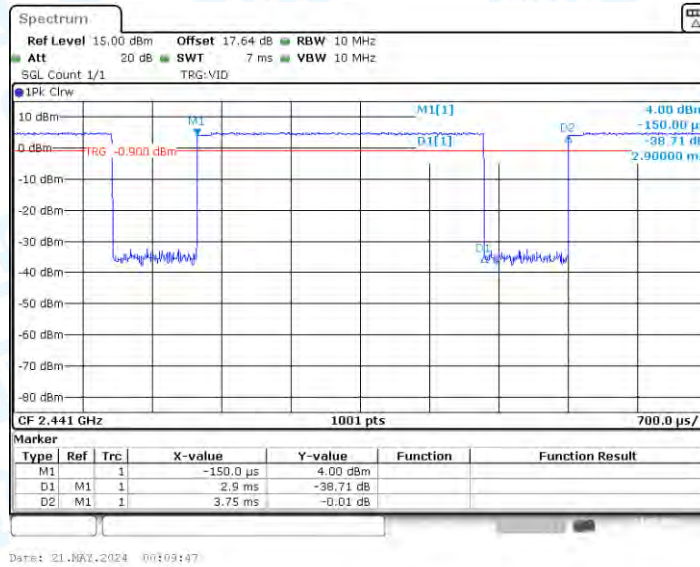
9.2. Test Graphs



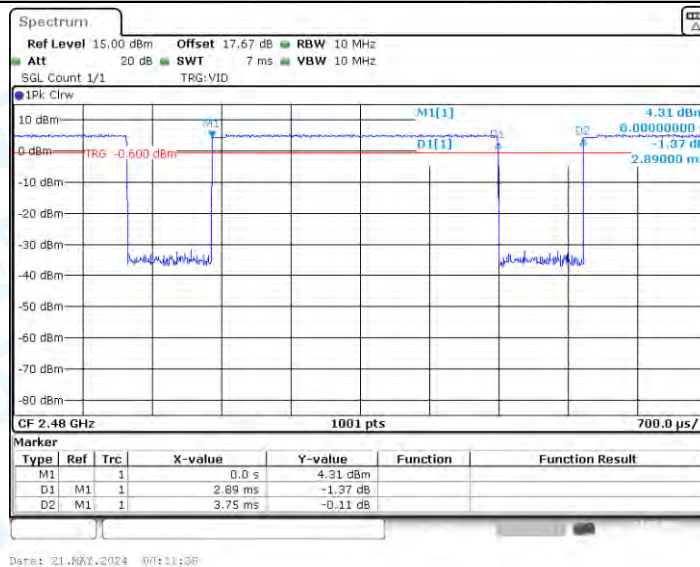
2DH5_Ant1_2402



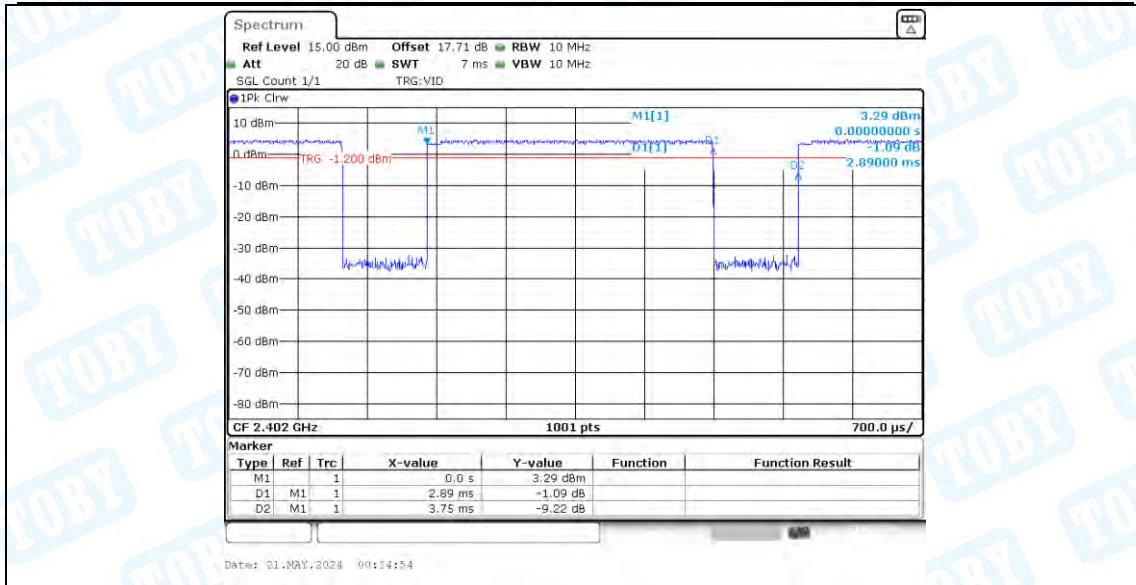
2DH5_Ant1_2441



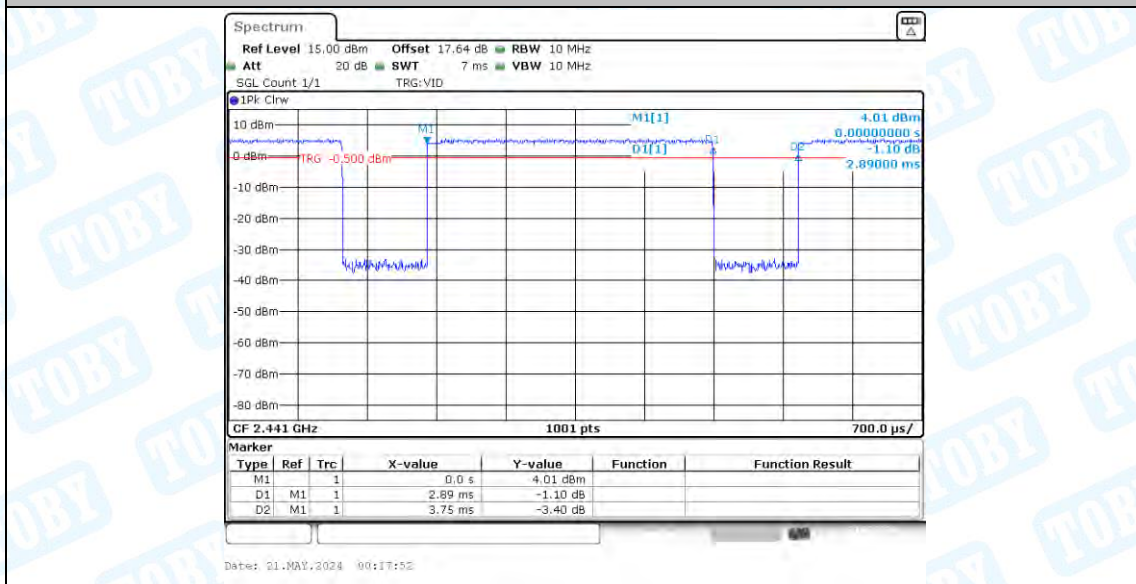
2DH5_Ant1_2480



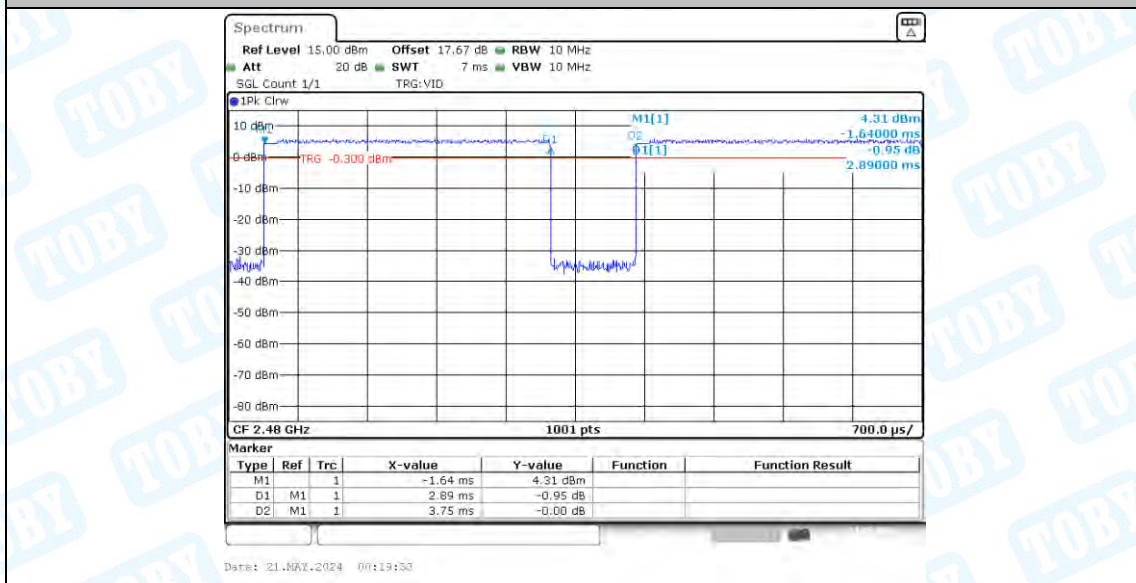
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



10. Emissions in Restricted Bands

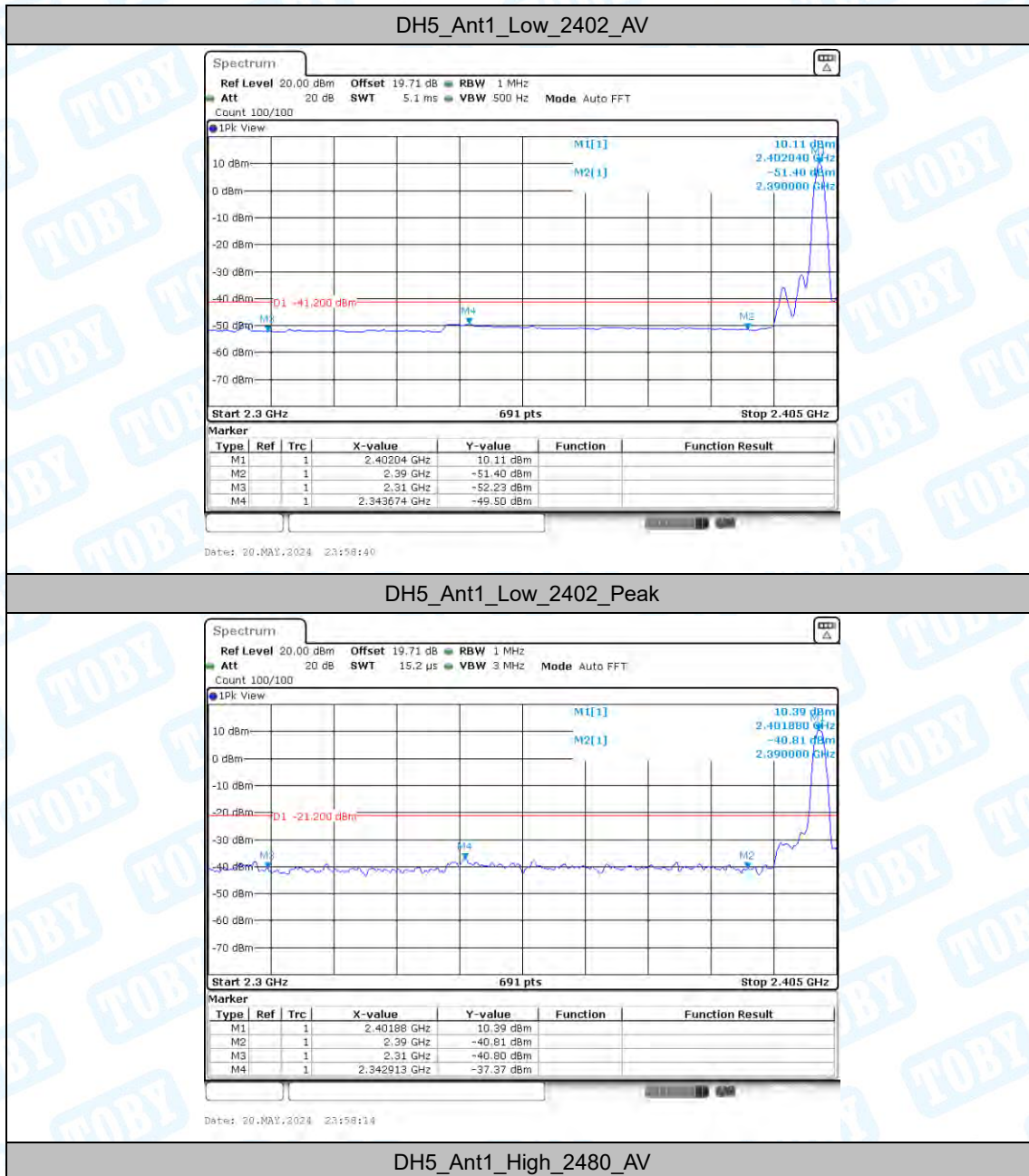
10.1. Test Result

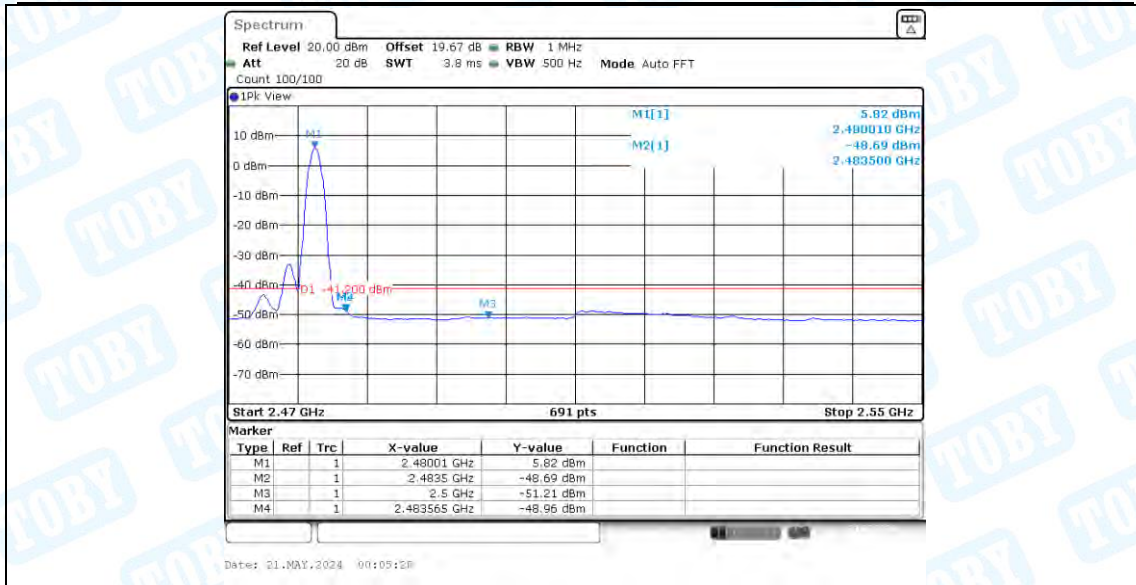
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-52.23	≤-41.20	PASS
				AV	2343.674	-49.5	≤-41.20	PASS
				AV	2390.000	-51.4	≤-41.20	PASS
				Peak	2310.000	-40.8	≤-21.20	PASS
				Peak	2342.913	-37.37	≤-21.20	PASS
				Peak	2390.000	-40.81	≤-21.20	PASS
		High	2480	AV	2483.500	-48.69	≤-41.20	PASS
				AV	2483.565	-48.96	≤-41.20	PASS
				AV	2500.000	-51.21	≤-41.20	PASS
				Peak	2483.500	-39.7	≤-21.20	PASS
				Peak	2498.174	-37.86	≤-21.20	PASS
				Peak	2500.000	-40.23	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-52.34	≤-41.20	PASS
				AV	2340.630	-49.57	≤-41.20	PASS
				AV	2390.000	-52.11	≤-41.20	PASS
				Peak	2310.000	-40.62	≤-21.20	PASS
				Peak	2343.370	-38.41	≤-21.20	PASS
				Peak	2390.000	-40.81	≤-21.20	PASS
		High	2480	AV	2483.500	-49.76	≤-41.20	PASS
				AV	2483.565	-49.8	≤-41.20	PASS
				AV	2500.000	-51.19	≤-41.20	PASS
				Peak	2483.500	-38.87	≤-21.20	PASS
				Peak	2497.478	-38.46	≤-21.20	PASS
				Peak	2500.000	-40.92	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-52.32	≤-41.20	PASS
				AV	2340.478	-49.65	≤-41.20	PASS
				AV	2390.000	-51.78	≤-41.20	PASS
				Peak	2310.000	-41.03	≤-21.20	PASS
				Peak	2351.891	-38.08	≤-21.20	PASS
				Peak	2390.000	-41.8	≤-21.20	PASS
		High	2480	AV	2483.500	-49.7	≤-41.20	PASS
				AV	2483.565	-49.82	≤-41.20	PASS
				AV	2500.000	-51.27	≤-41.20	PASS
				Peak	2483.500	-41.12	≤-21.20	PASS
				Peak	2499.913	-38.84	≤-21.20	PASS
				Peak	2500.000	-38.66	≤-21.20	PASS

Note:

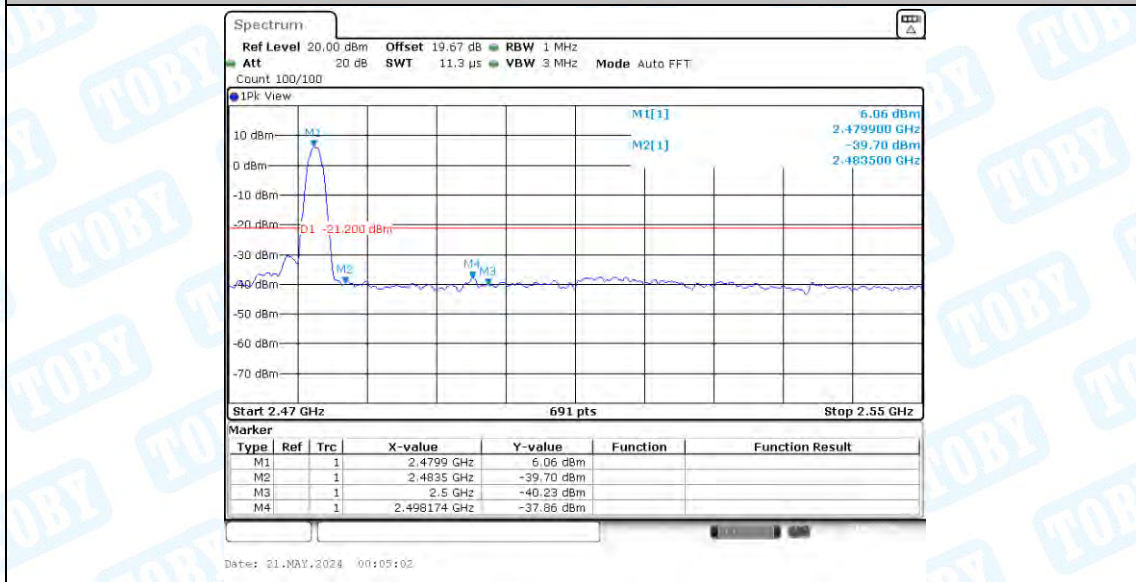
- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

10.2. Test Graphs

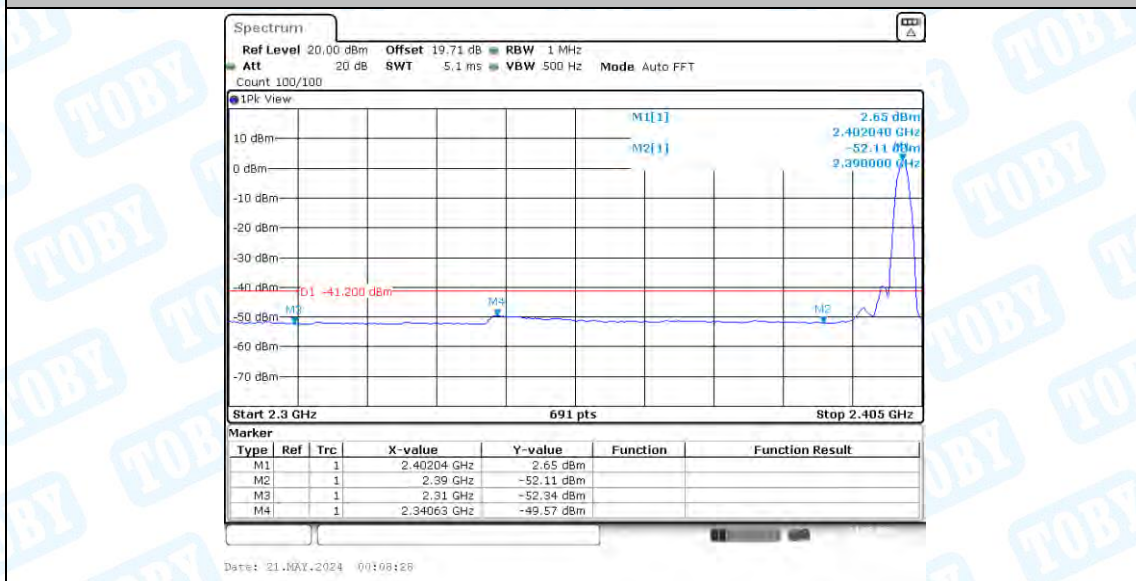




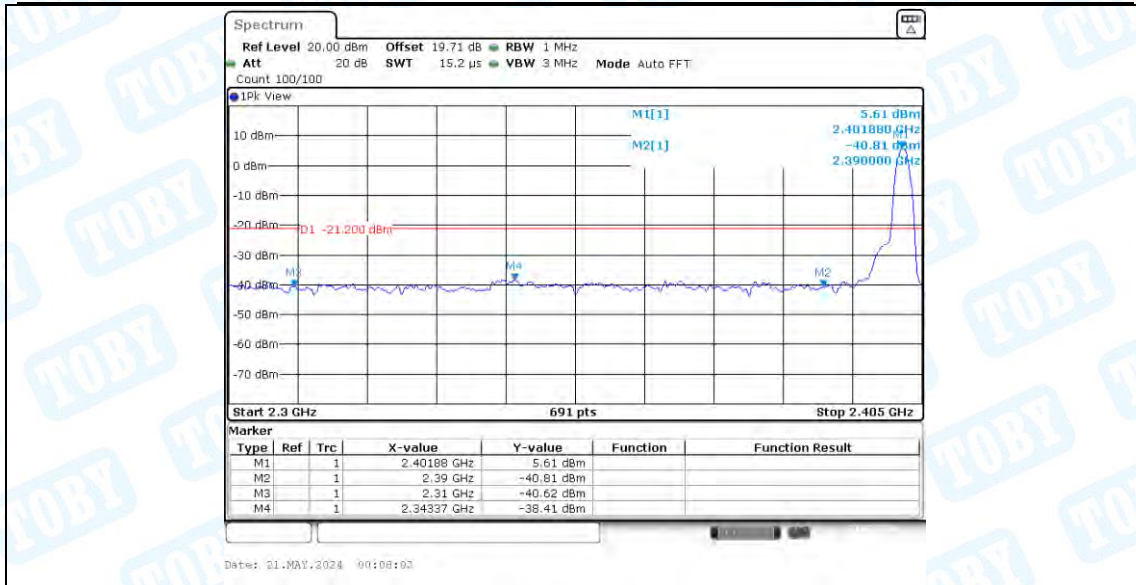
DH5_Ant1_High_2480_Peak



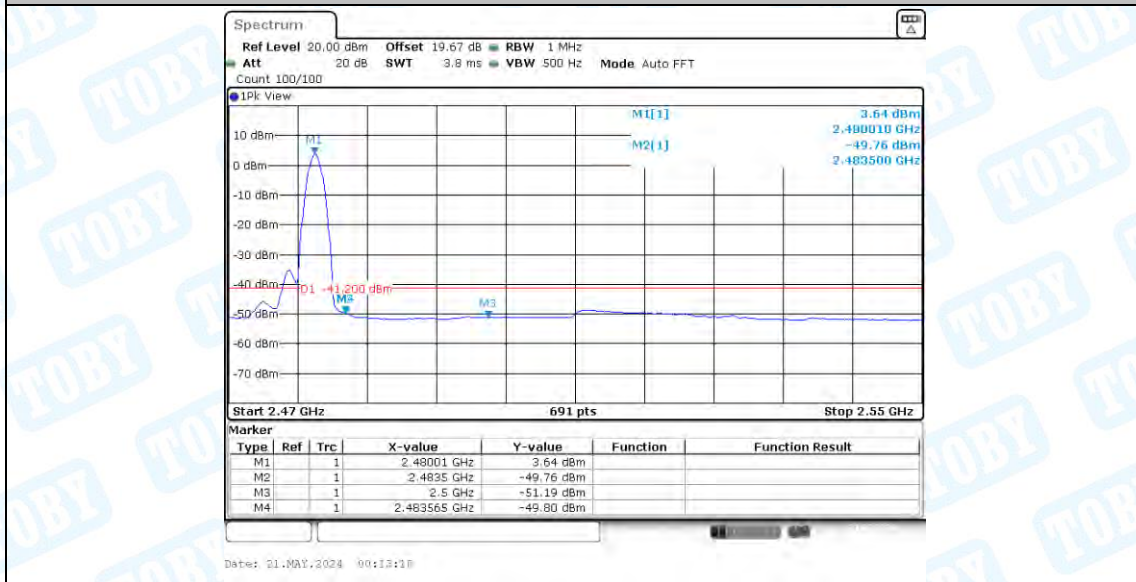
2DH5_Ant1_Low_2402_AV



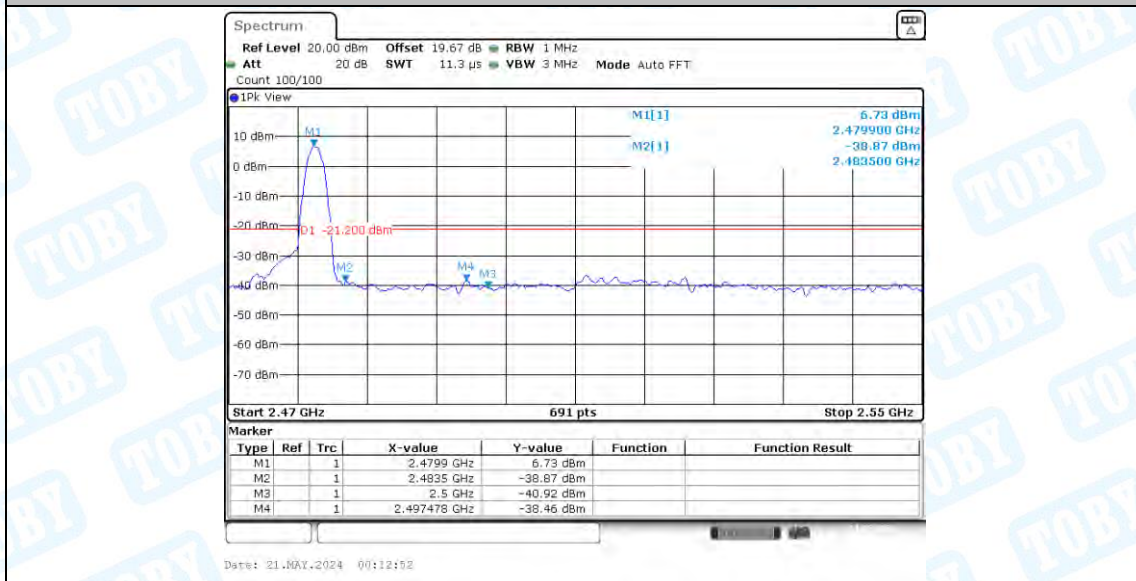
2DH5_Ant1_Low_2402_Peak



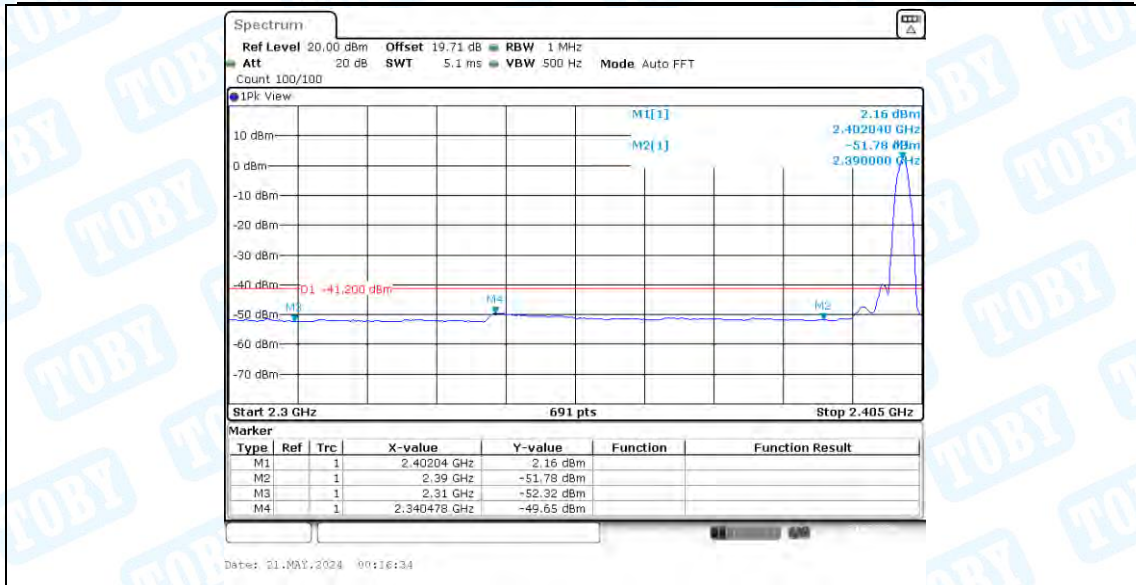
2DH5_Ant1_High_2480_AV



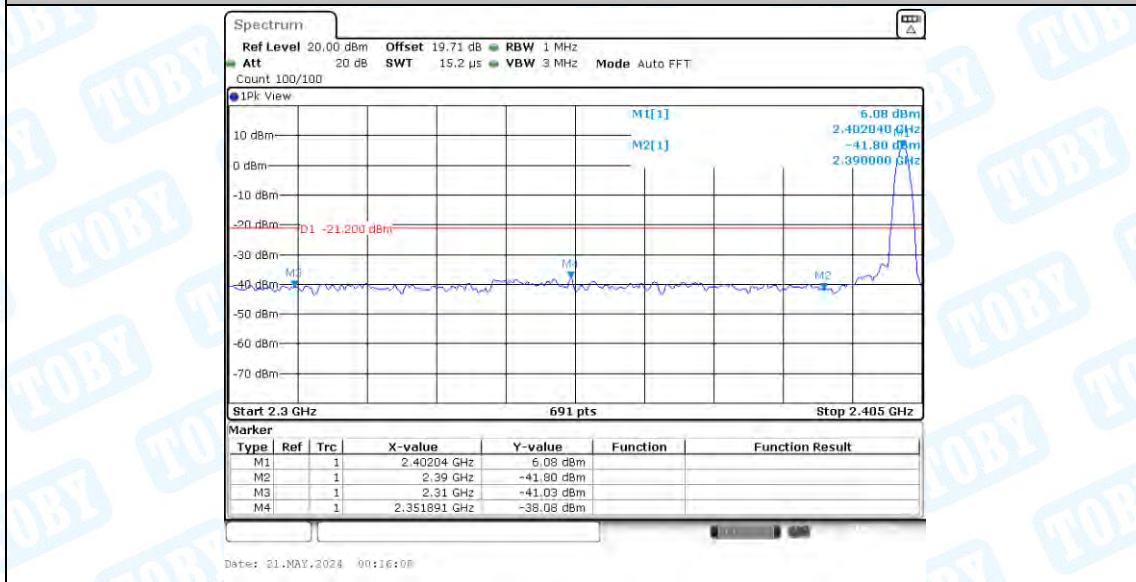
2DH5_Ant1_High_2480_Peak



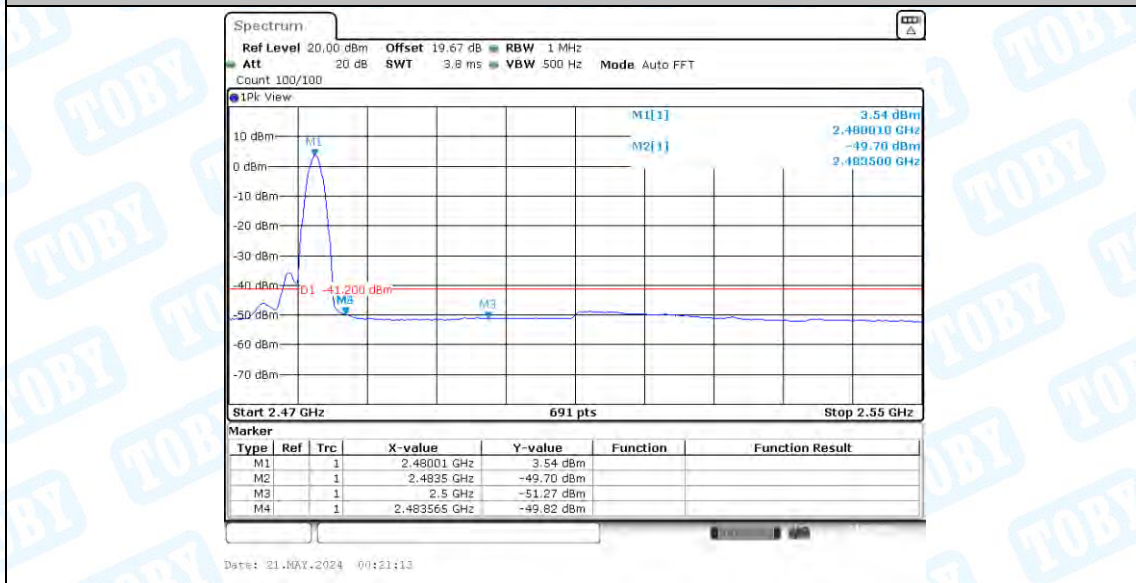
3DH5_Ant1_Low_2402_AV



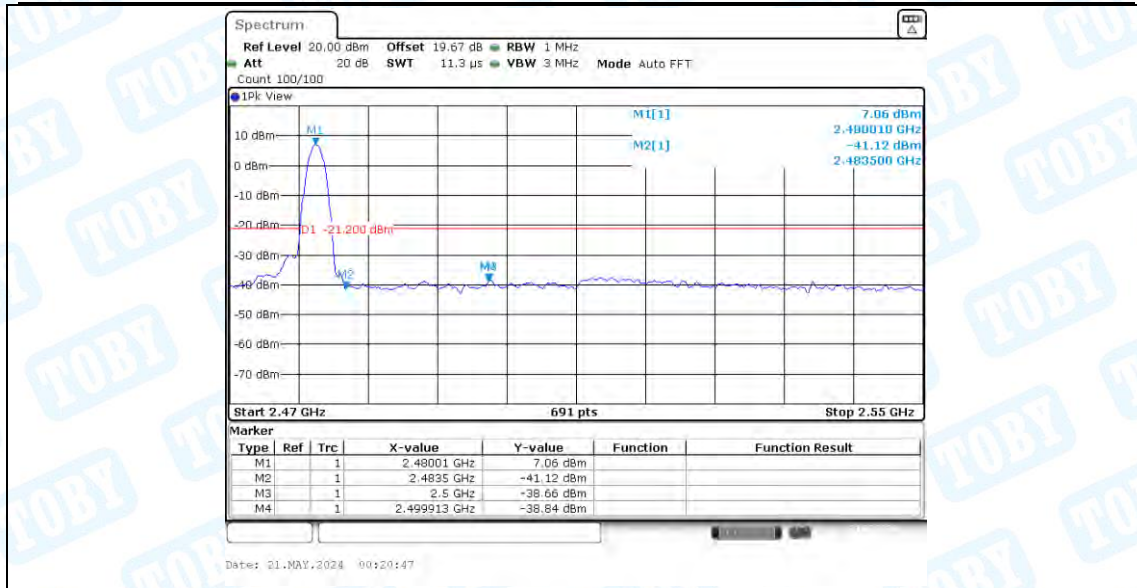
3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



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