

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

General Description of EUT	
Product Name:	S1 Napoli
Test Model:	S1 Napoli
Sample ID:	RW-C-202305-0096-2-2#
Environmental Conditions	
Temperature:	23.2℃
Relative Humidity:	51%
Test Voltage:	DC3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202305-0096-3.	

Contents

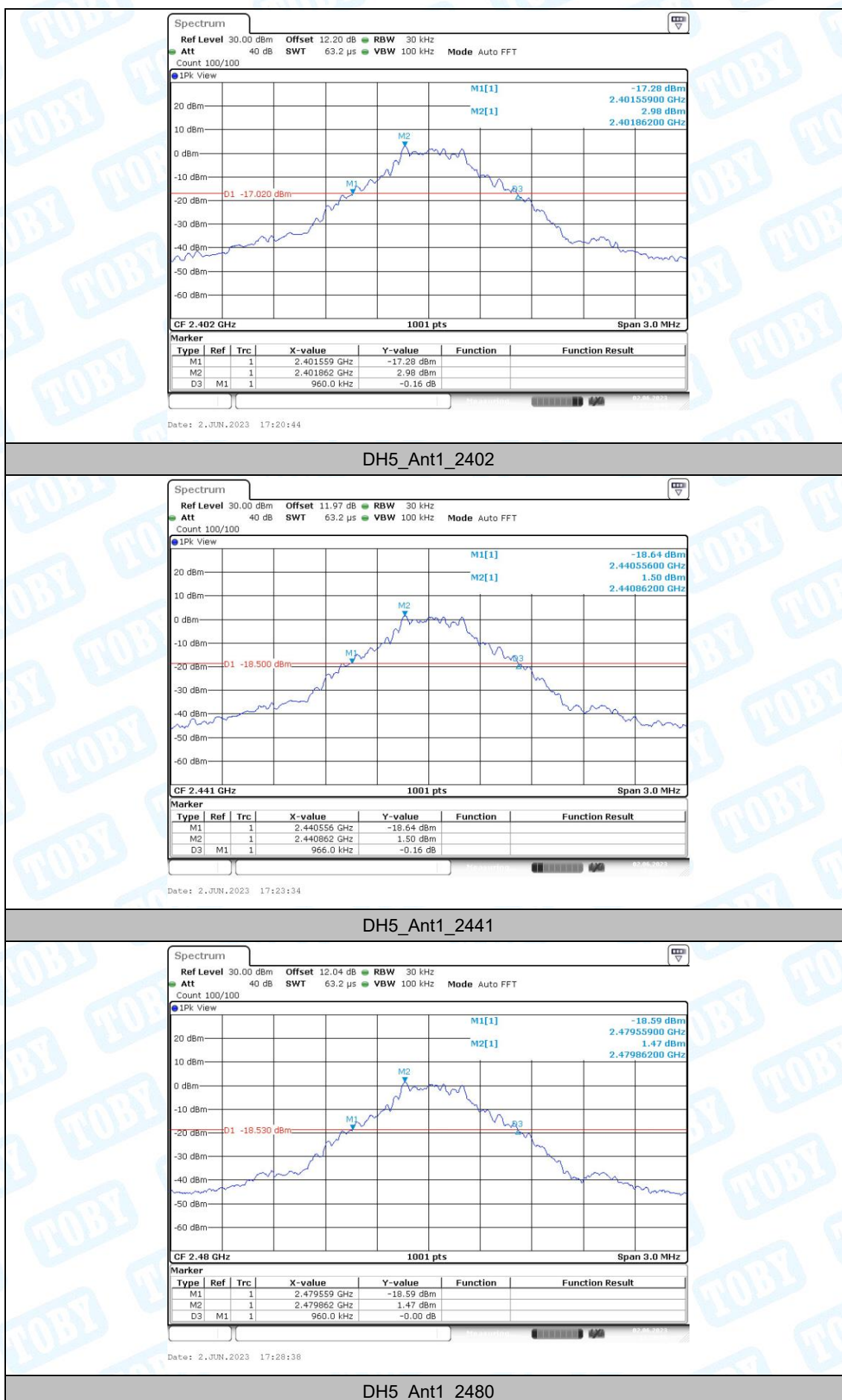
1. 20dB Emission Bandwidth	3
1.1. Test Result	3
1.2. Test Graphs	4
2. Occupied Channel Bandwidth	7
2.1. Test Result	7
2.2. Test Graphs	8
3. Maximum conducted output power	11
3.1. Test Result	11
3.2. Test Graphs	12
4. Carrier frequency separation	15
4.1. Test Result	15
4.2. Test Graphs	16
5. Time of occupancy	17
5.1. Test Result	17
5.2. Test Graphs	18
6. Number of hopping channels	21
6.1. Test Result	21
6.2. Test Graphs	22
7. Band edge measurements	24
7.1. Test Result	24
7.2. Test Graphs	25
8. Conducted Spurious Emission	30
8.1. Test Result	30
8.2. Test Graphs	31
9. Duty Cycle	41
9.1. Test Result	41
9.2. Test Graphs	42
10. Emissions in Restricted Bands	46
10.1. Test Result	46
10.2. Test Graphs	48

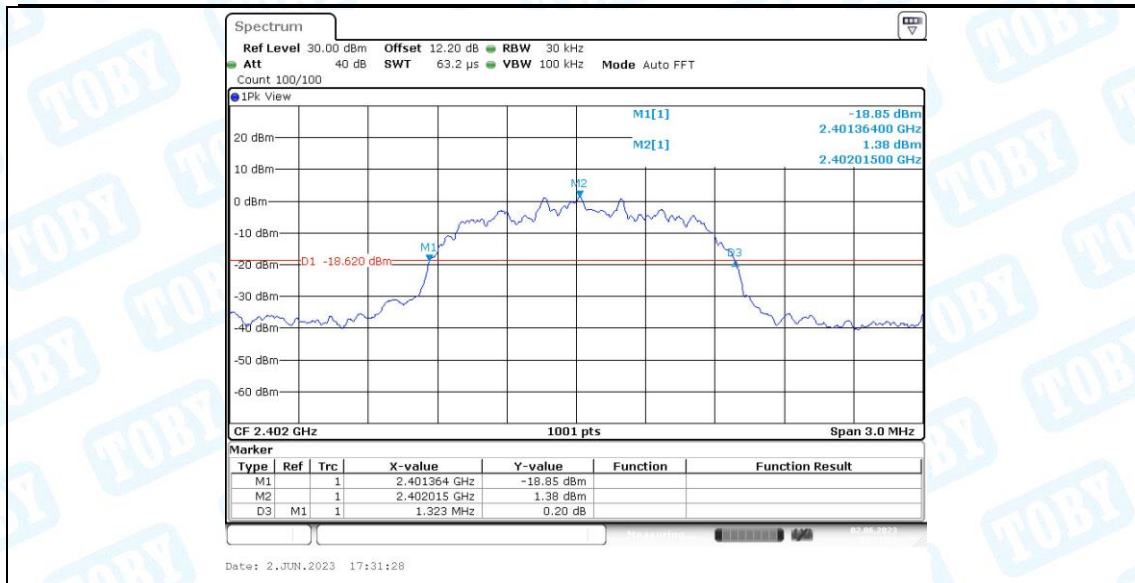
1. 20dB Emission Bandwidth

1.1. Test Result

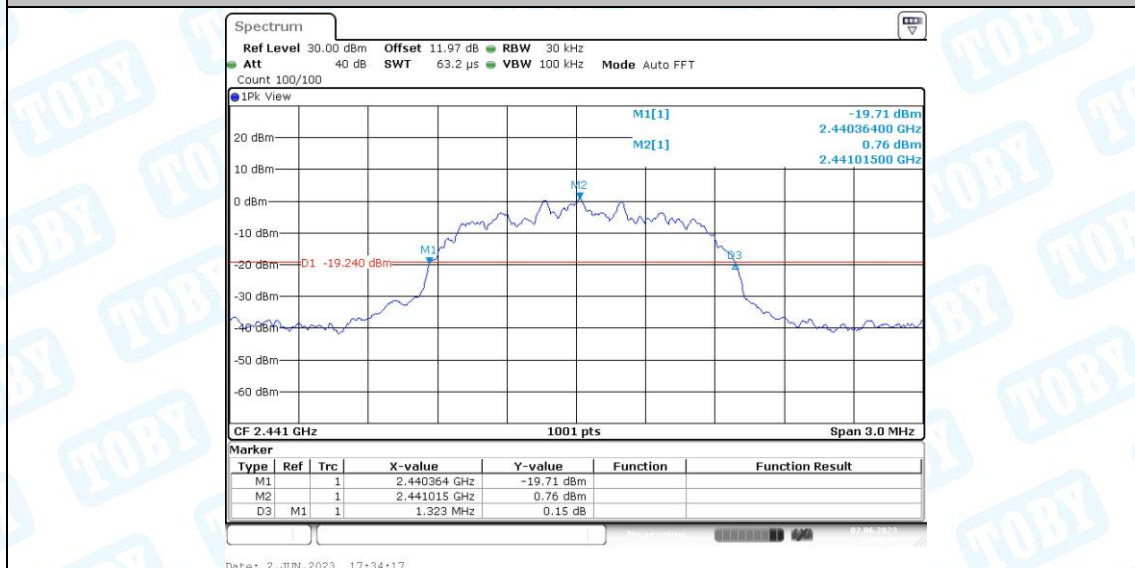
TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.96	---	---
		2441	0.97	---	---
		2480	0.96	---	---
2DH5	Ant1	2402	1.32	---	---
		2441	1.32	---	---
		2480	1.33	---	---
3DH5	Ant1	2402	1.31	---	---
		2441	1.31	---	---
		2480	1.31	---	---

1.2. Test Graphs

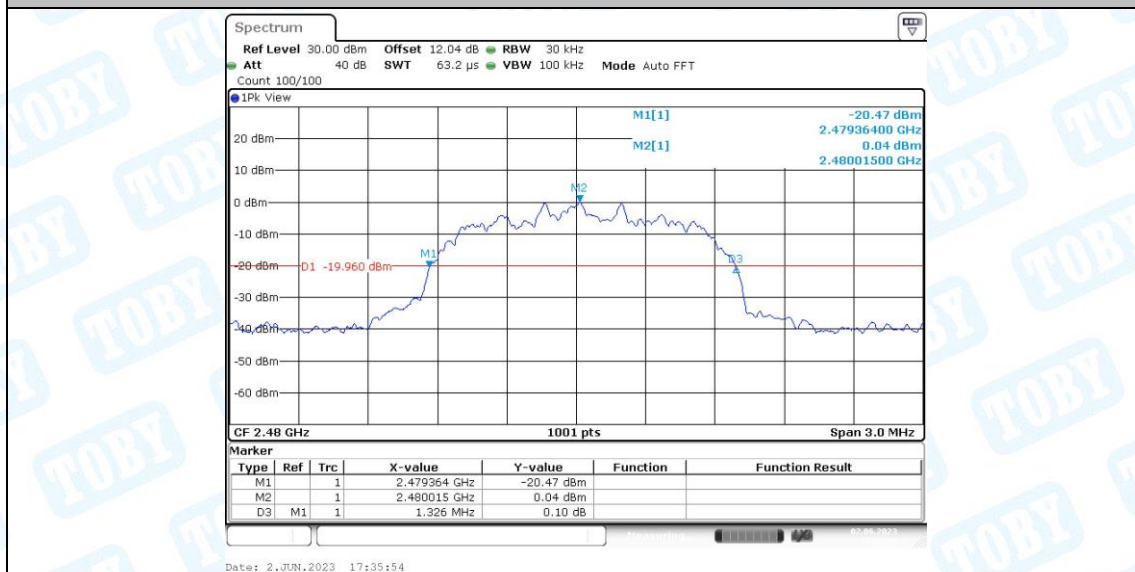




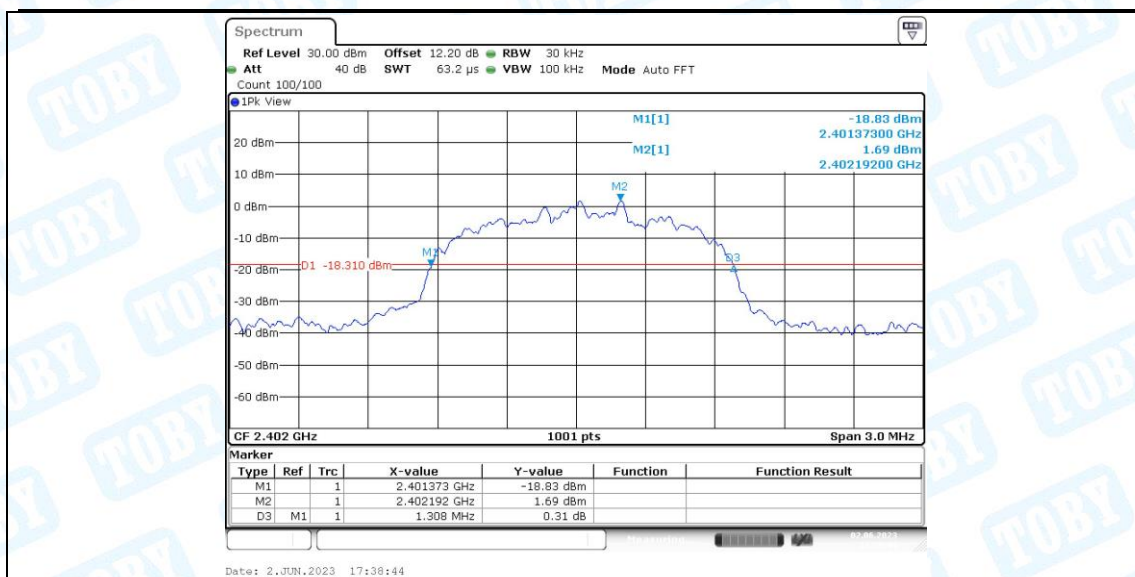
2DH5_Ant1_2402



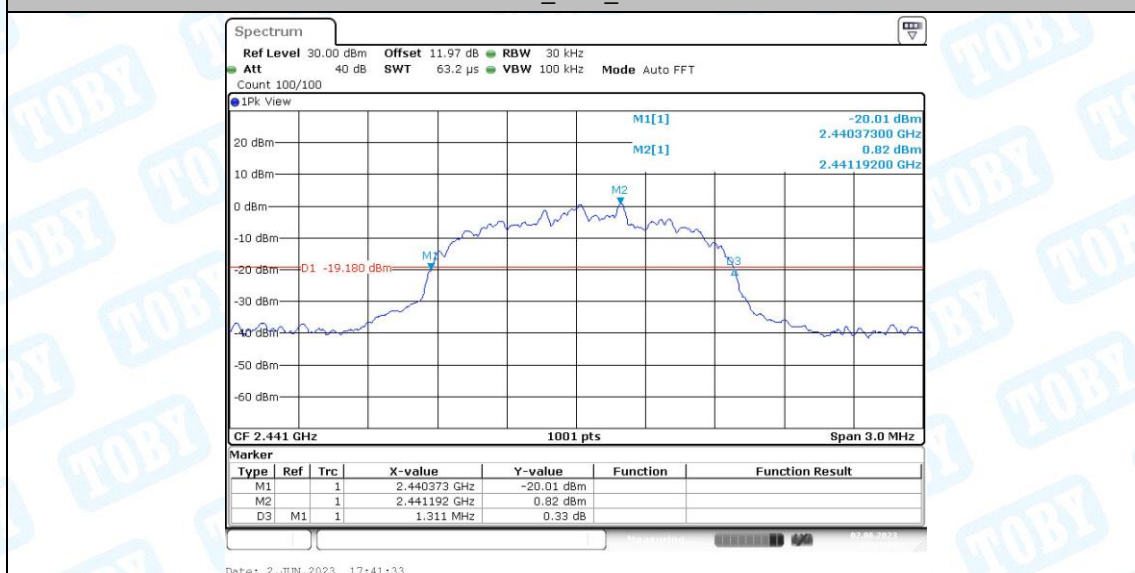
2DH5_Ant1_2441



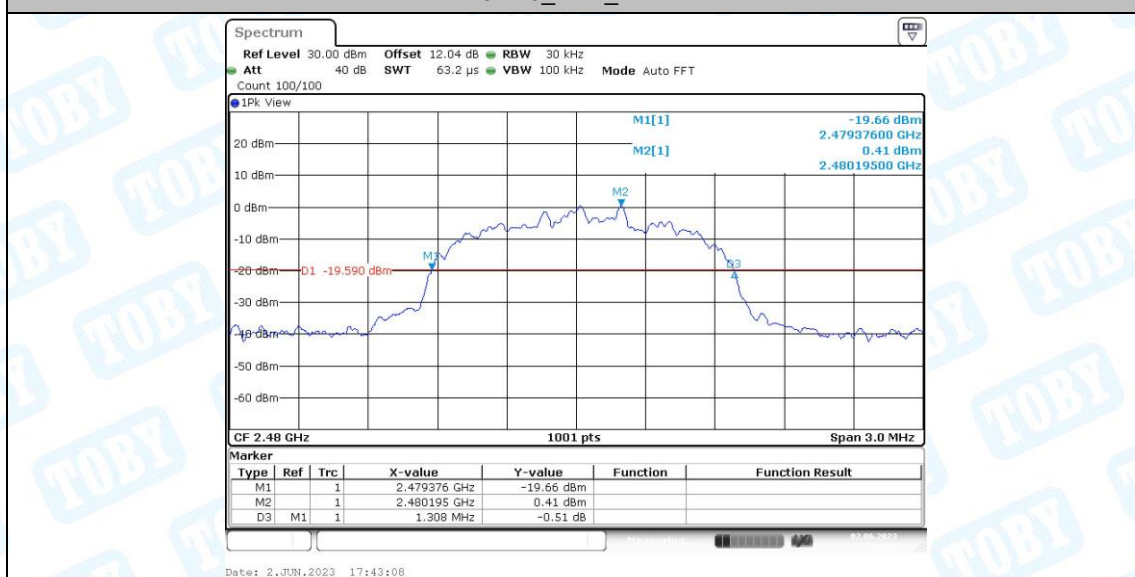
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



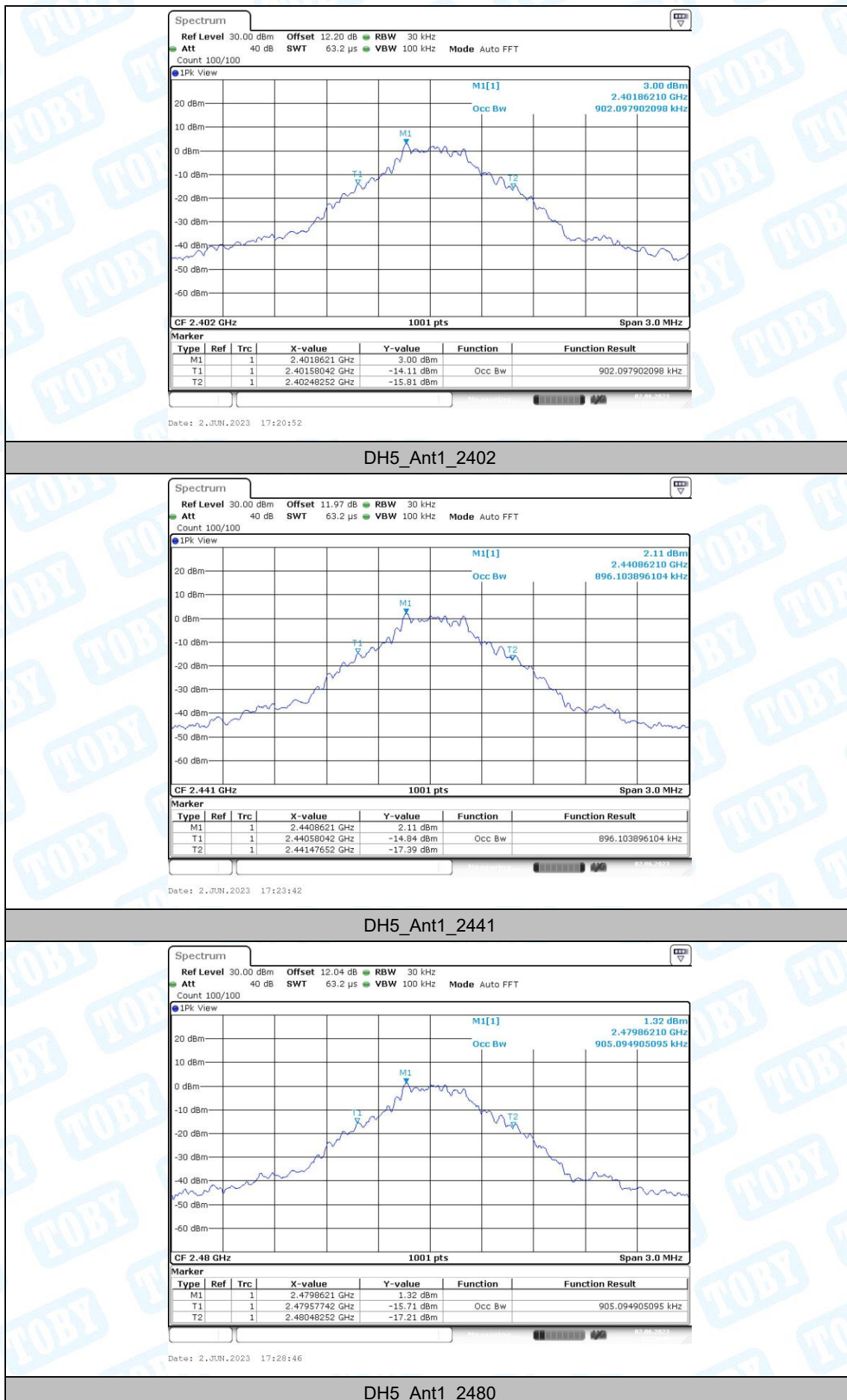
3DH5_Ant1_2480

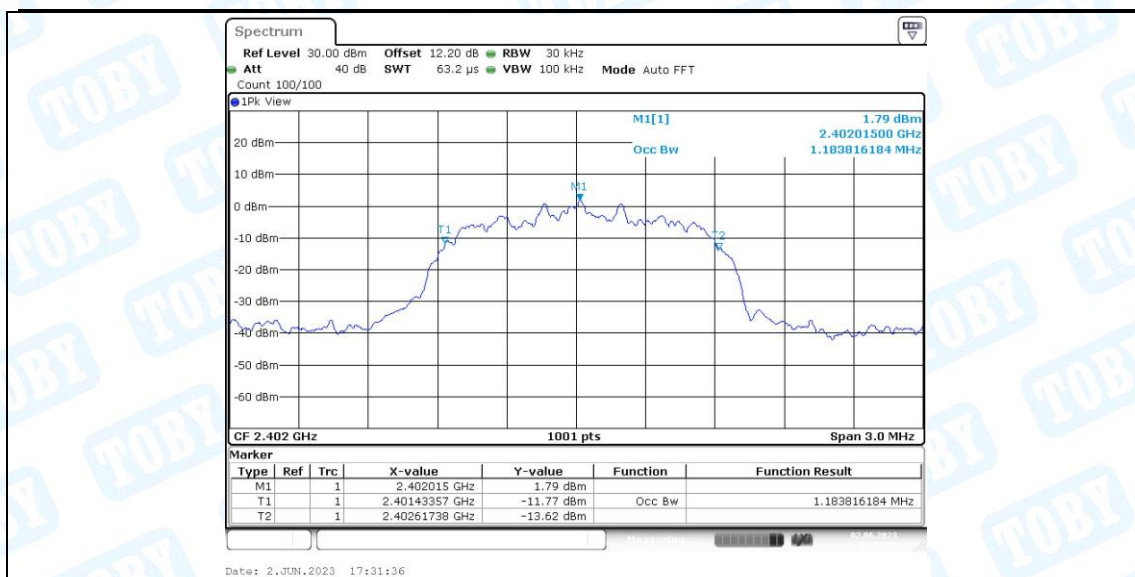
2. Occupied Channel Bandwidth

2.1. Test Result

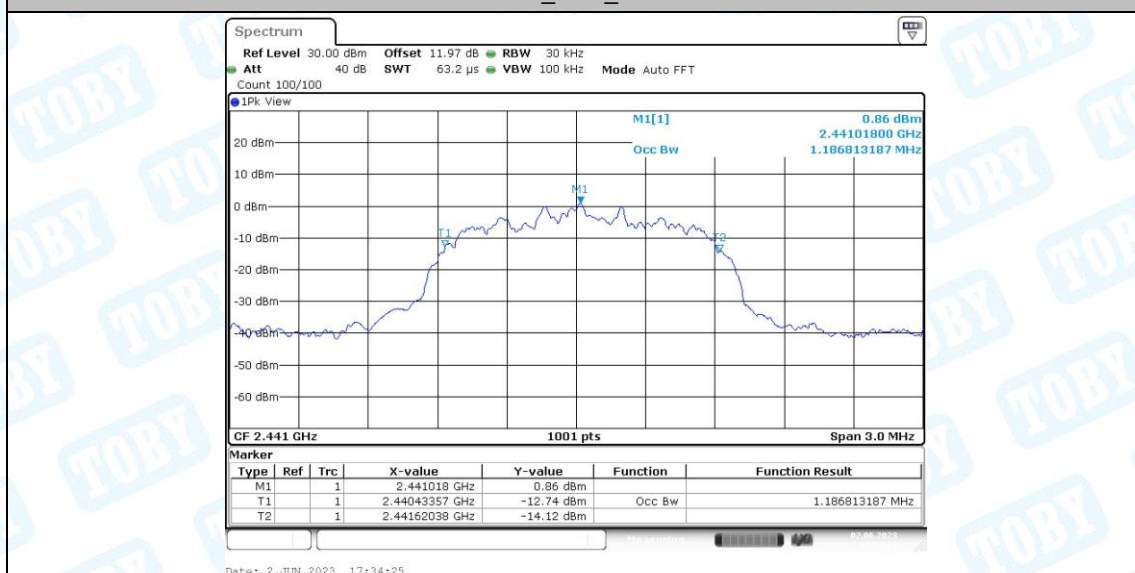
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.902	2401.5804	2402.4825	---	---
		2441	0.896	2440.5804	2441.4765	---	---
		2480	0.905	2479.5774	2480.4825	---	---
2DH5	Ant1	2402	1.184	2401.4336	2402.6174	---	---
		2441	1.187	2440.4336	2441.6204	---	---
		2480	1.187	2479.4336	2480.6204	---	---
3DH5	Ant1	2402	1.196	2401.4276	2402.6234	---	---
		2441	1.196	2440.4276	2441.6234	---	---
		2480	1.193	2479.4306	2480.6234	---	---

2.2. Test Graphs

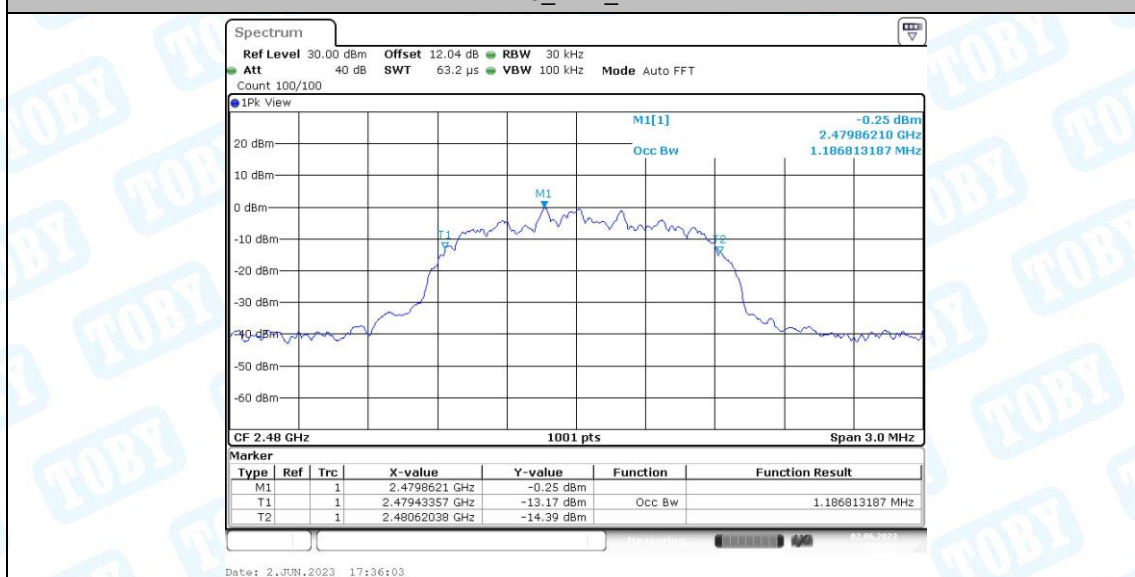




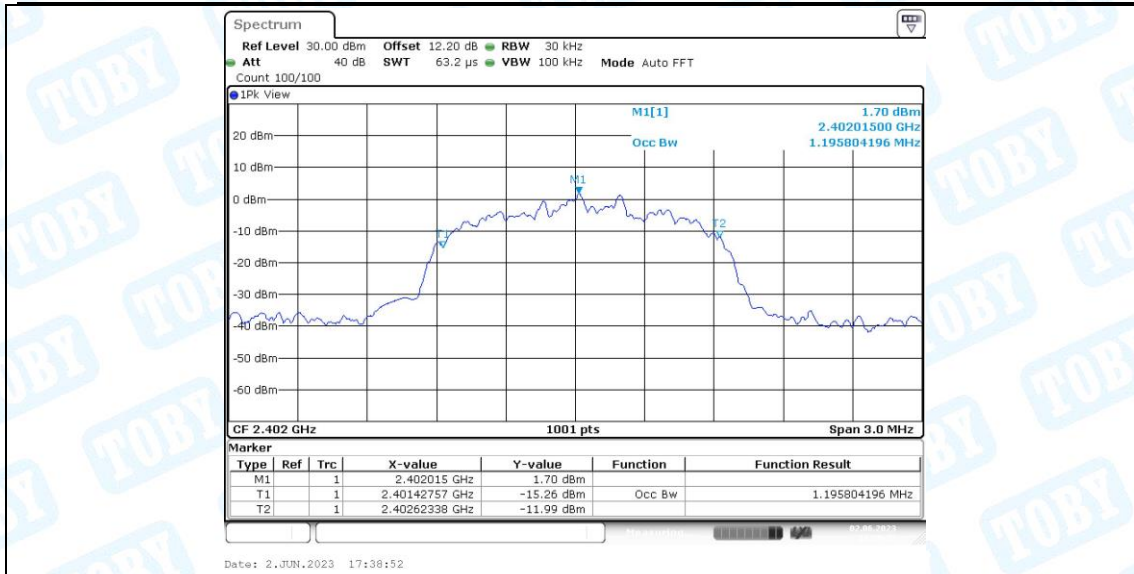
2DH5_Ant1_2402



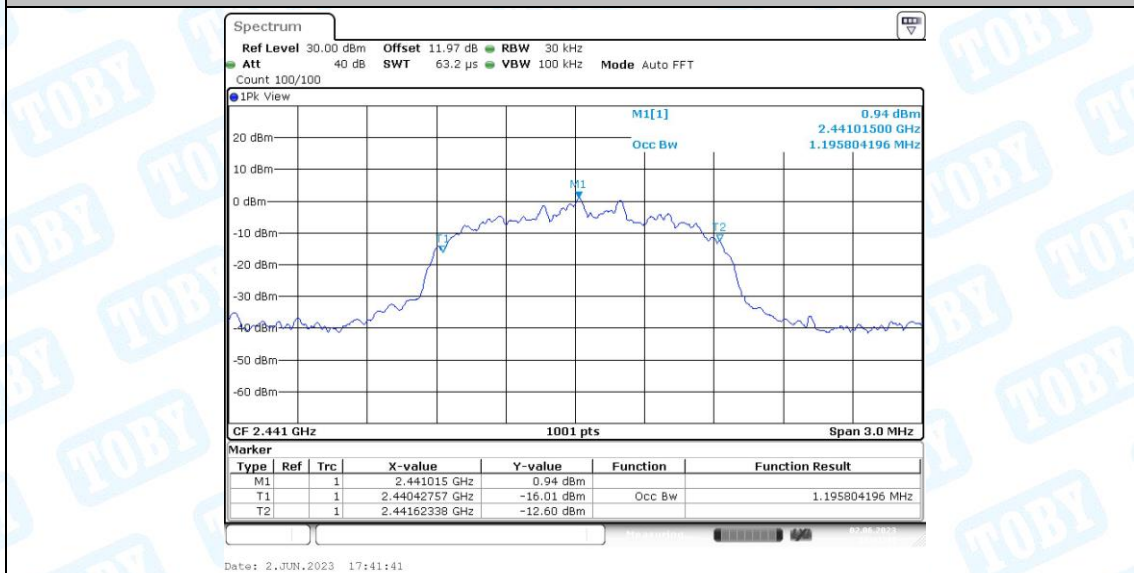
2DH5_Ant1_2441



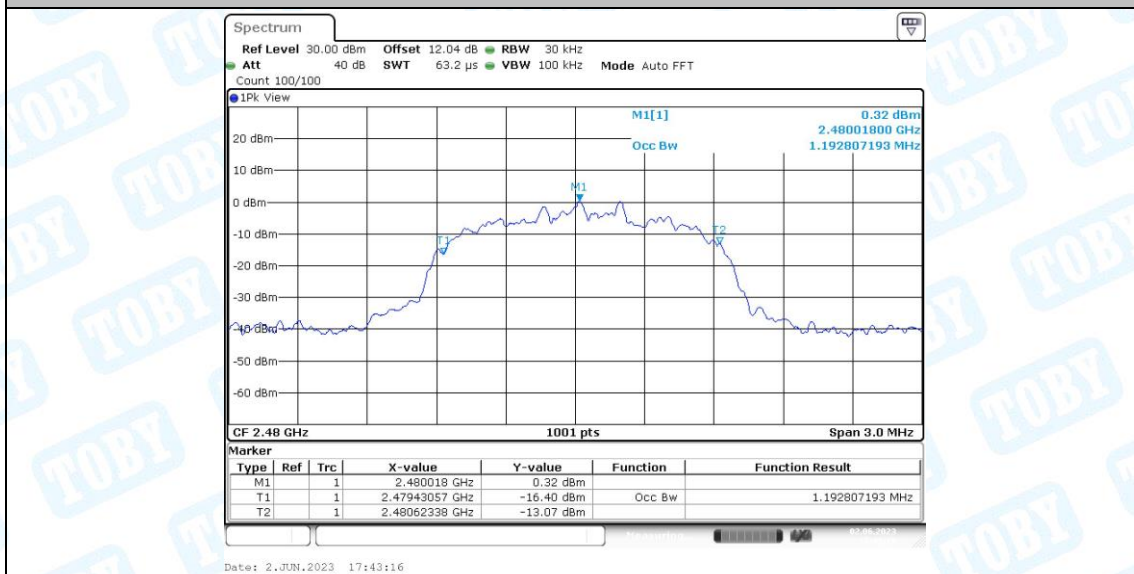
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



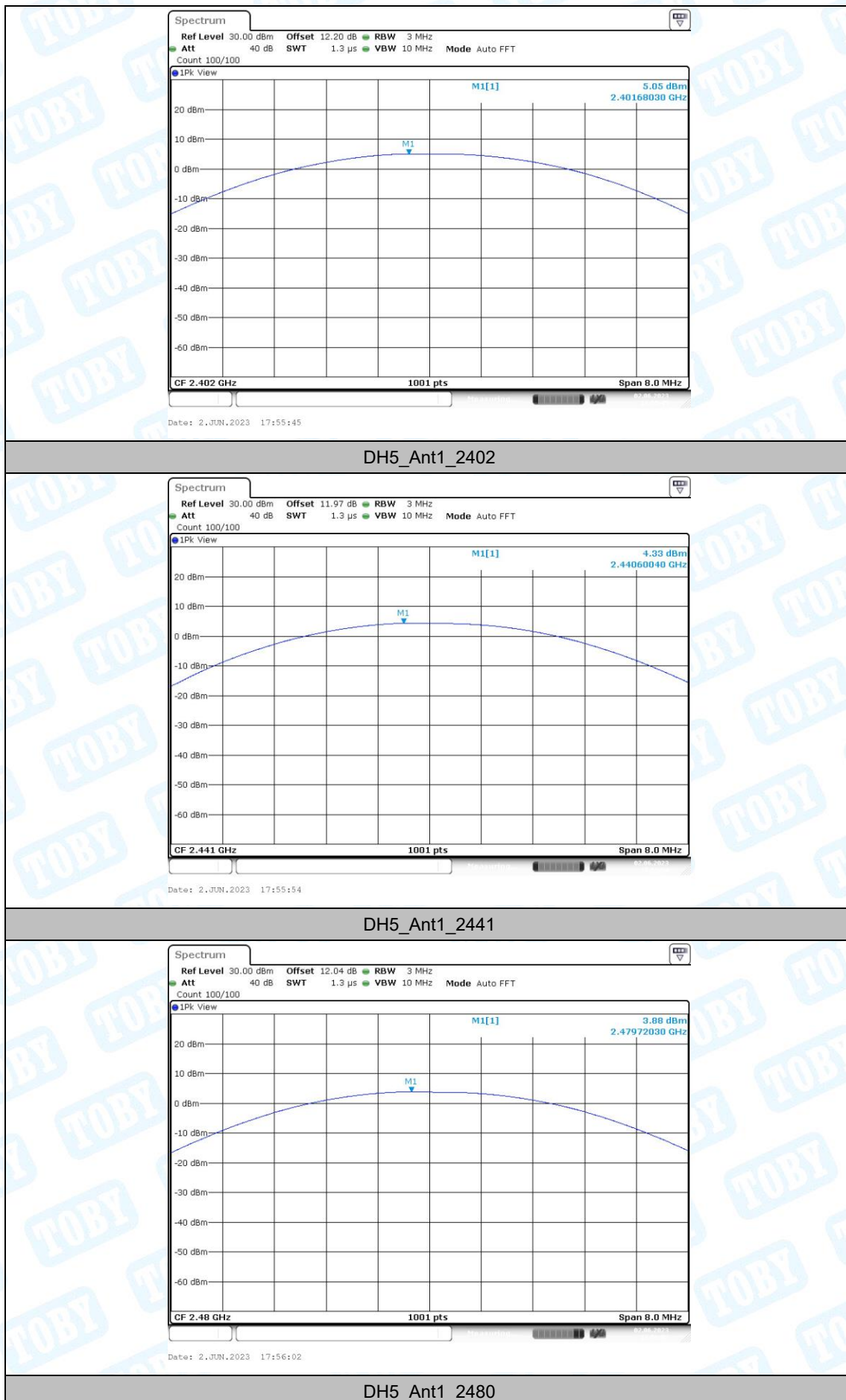
3DH5_Ant1_2480

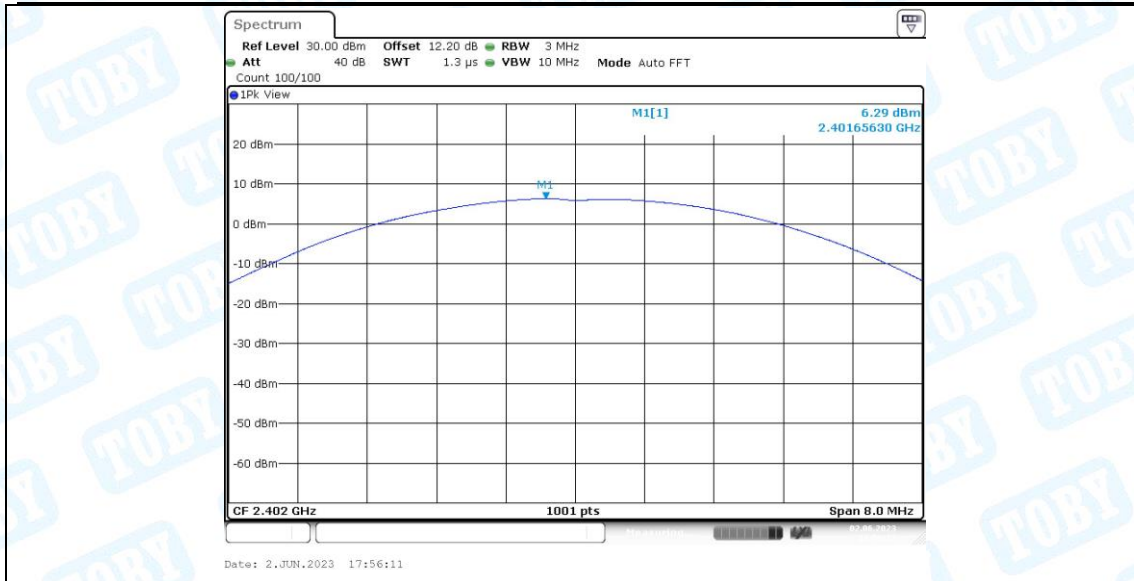
3. Maximum conducted output power

3.1. Test Result

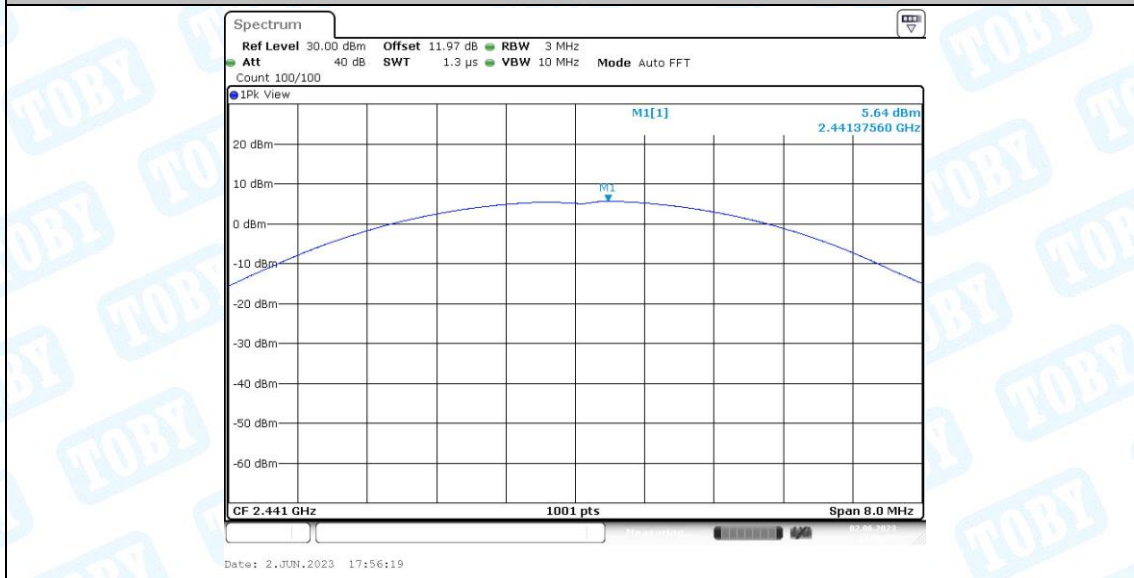
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.05	≤30	PASS
		2441	4.33	≤30	PASS
		2480	3.88	≤30	PASS
2DH5	Ant1	2402	6.29	≤20.97	PASS
		2441	5.64	≤20.97	PASS
		2480	5.1	≤20.97	PASS
3DH5	Ant1	2402	6.59	≤20.97	PASS
		2441	5.69	≤20.97	PASS
		2480	5.31	≤20.97	PASS

3.2. Test Graphs

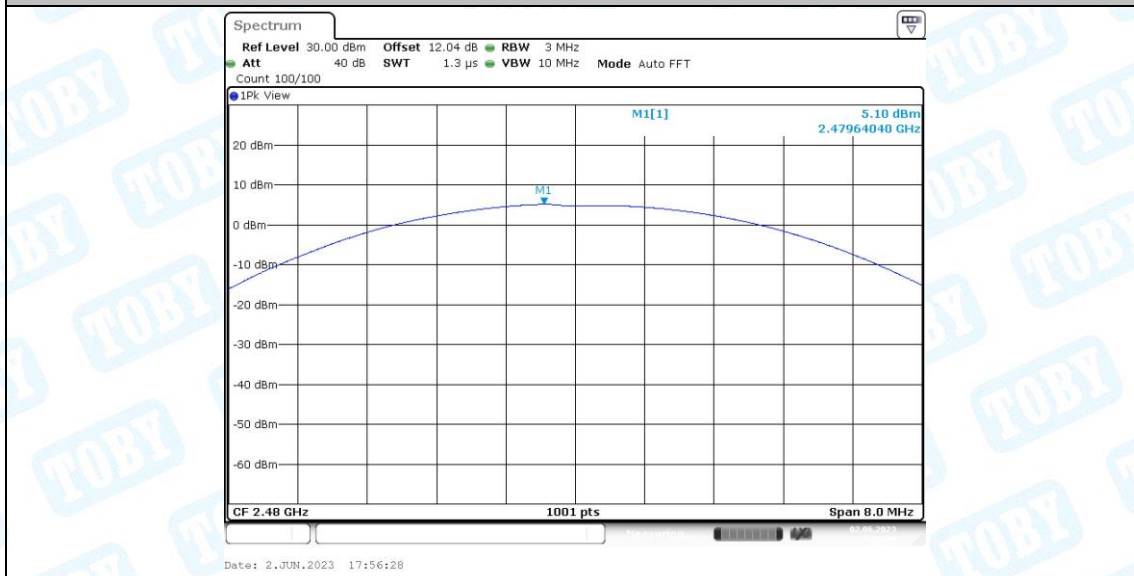




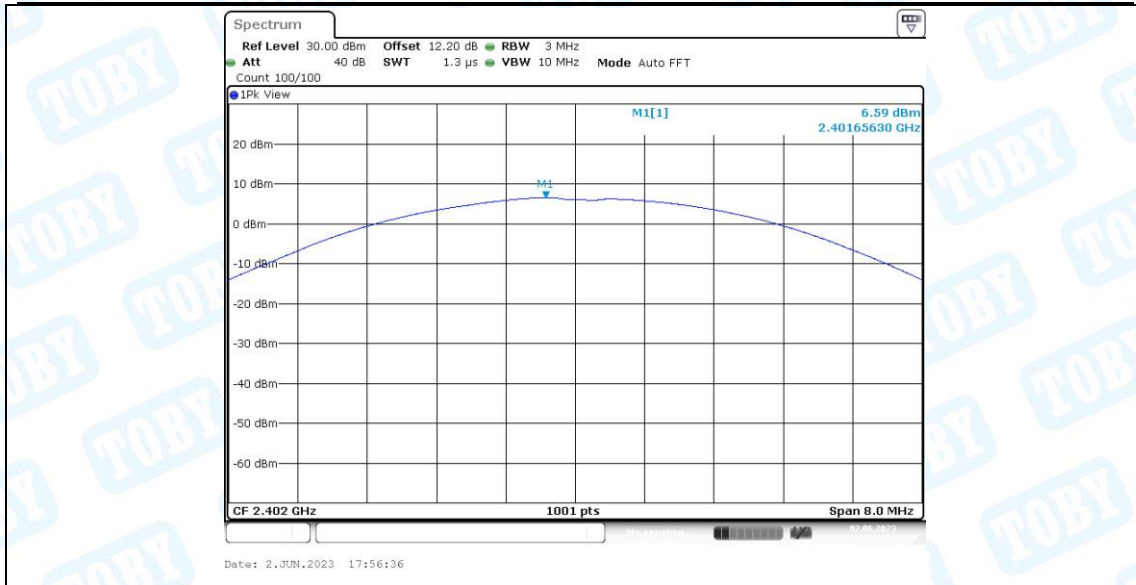
2DH5_Ant1_2402



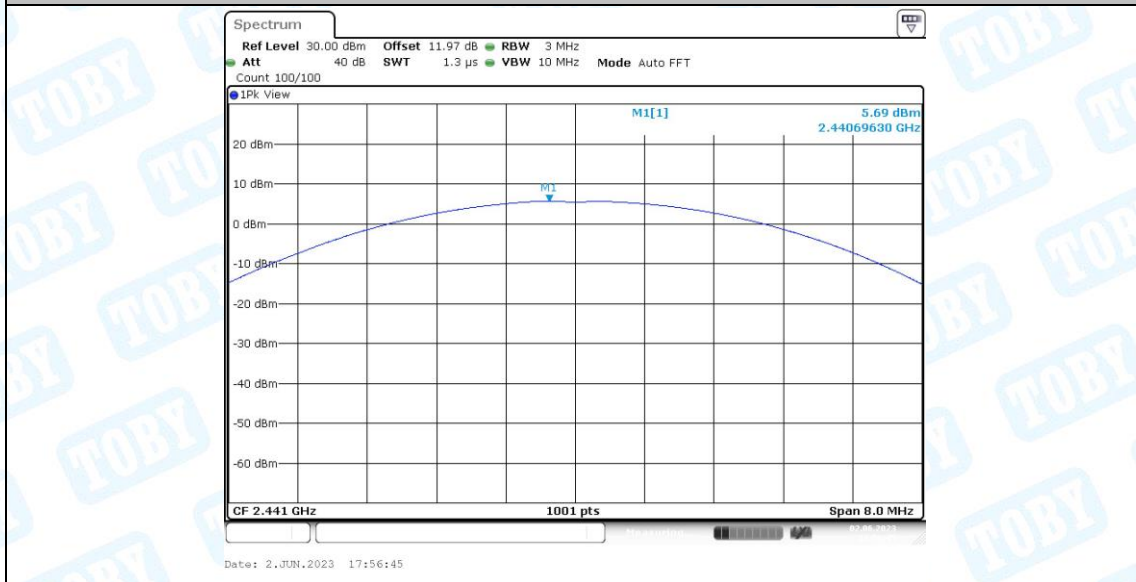
2DH5_Ant1_2441



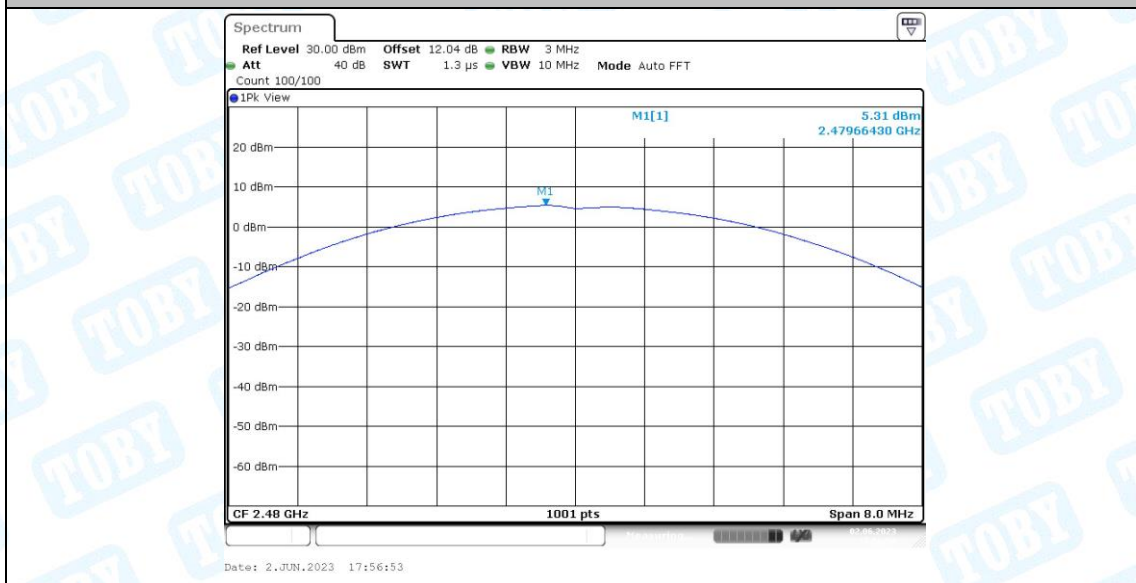
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



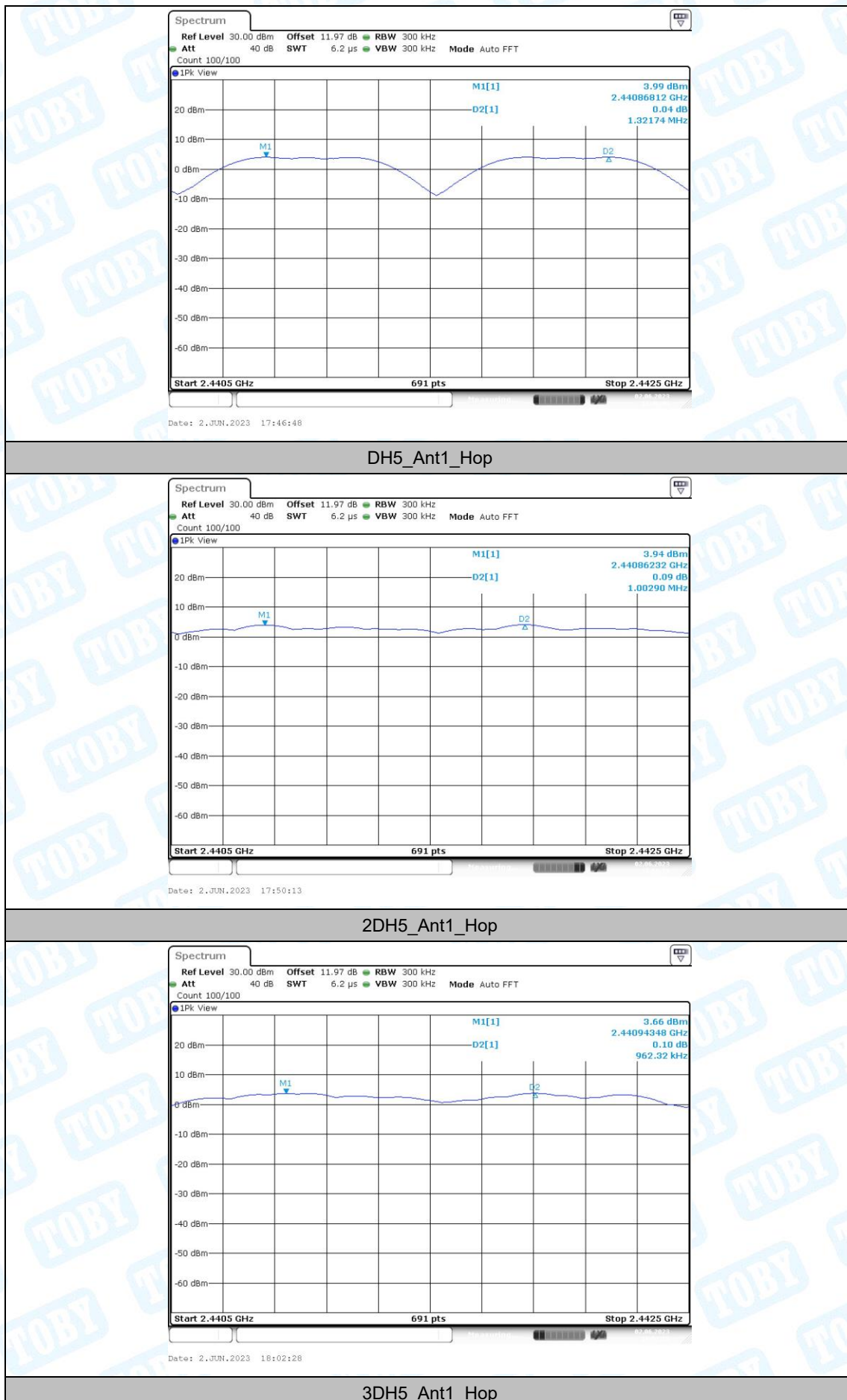
3DH5_Ant1_2480

4. Carrier frequency separation

4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.322	≥ 0.970	PASS
2DH5	Ant1	Hop	1.003	≥ 0.887	PASS
3DH5	Ant1	Hop	0.962	≥ 0.873	PASS

4.2. Test Graphs

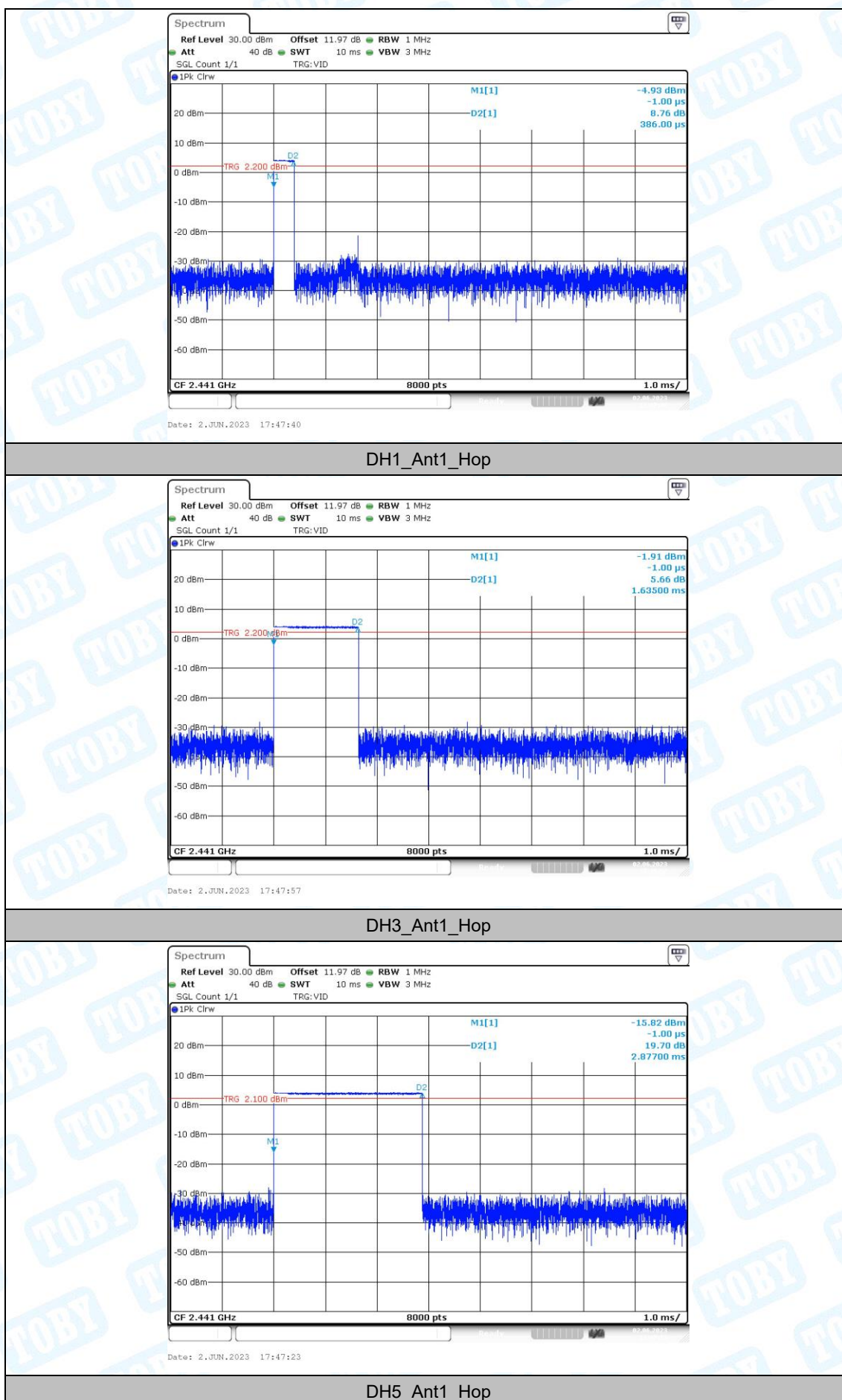


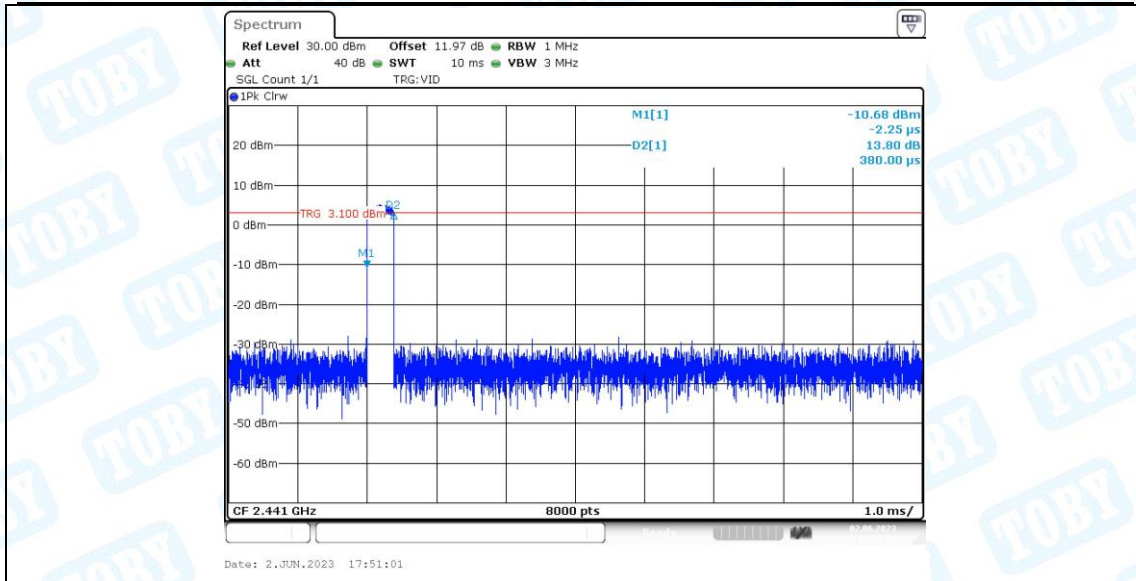
5. Time of occupancy

5.1. Test Result

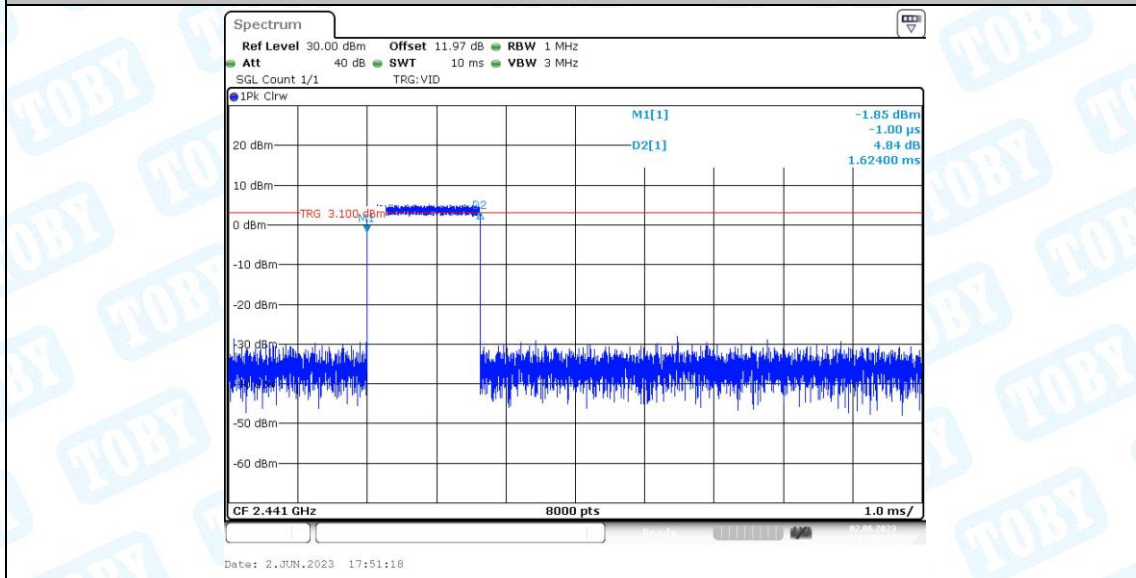
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.386	320	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.635	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.877	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.380	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.624	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.864	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.378	320	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.619	160	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.864	106.67	0.306	≤0.4	PASS

5.2. Test Graphs

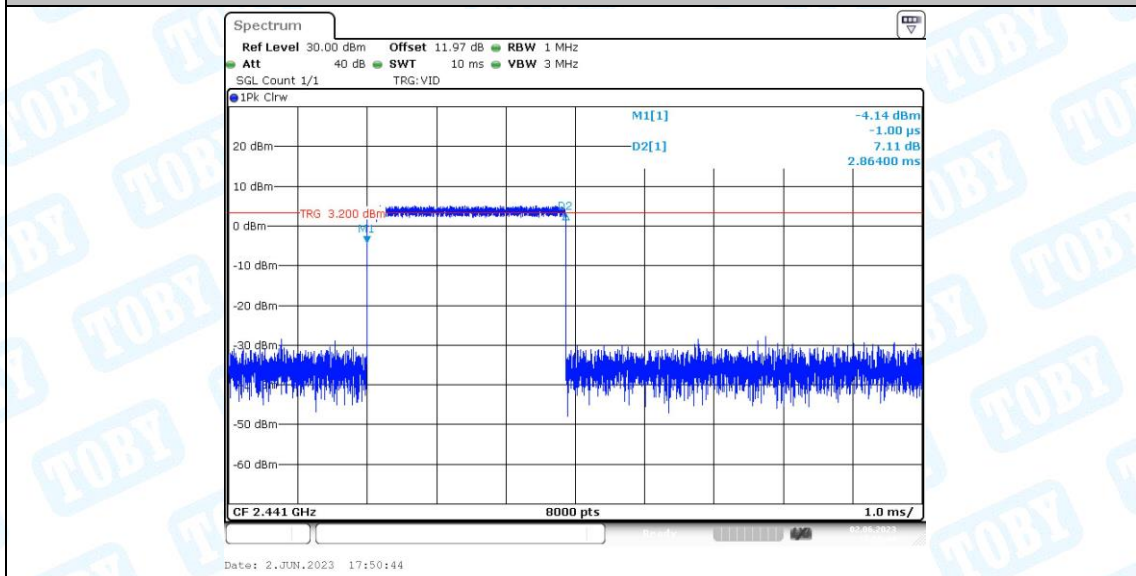




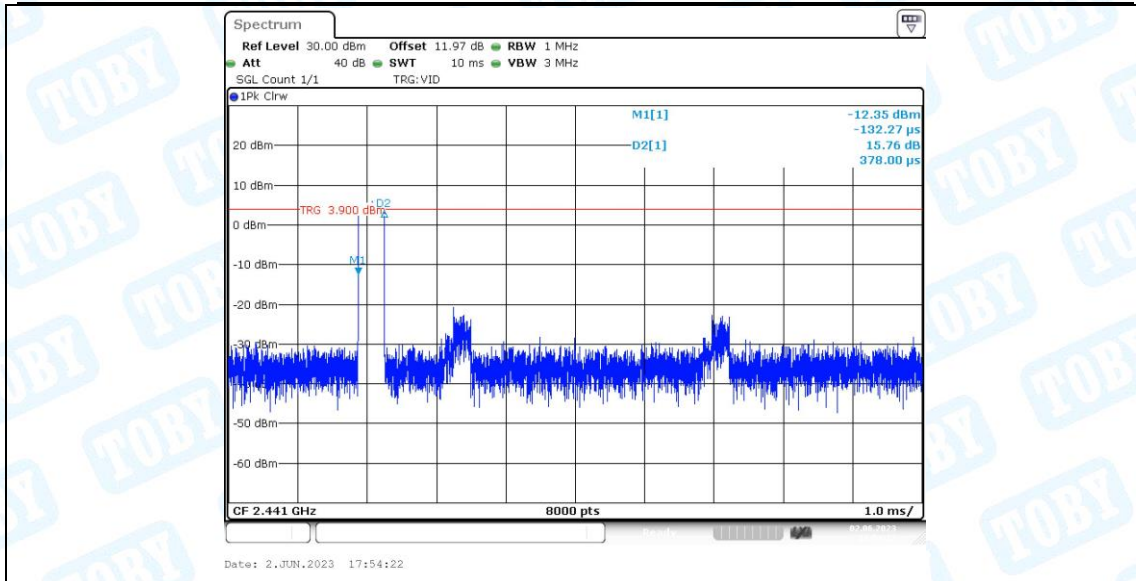
2DH1_Ant1_Hop



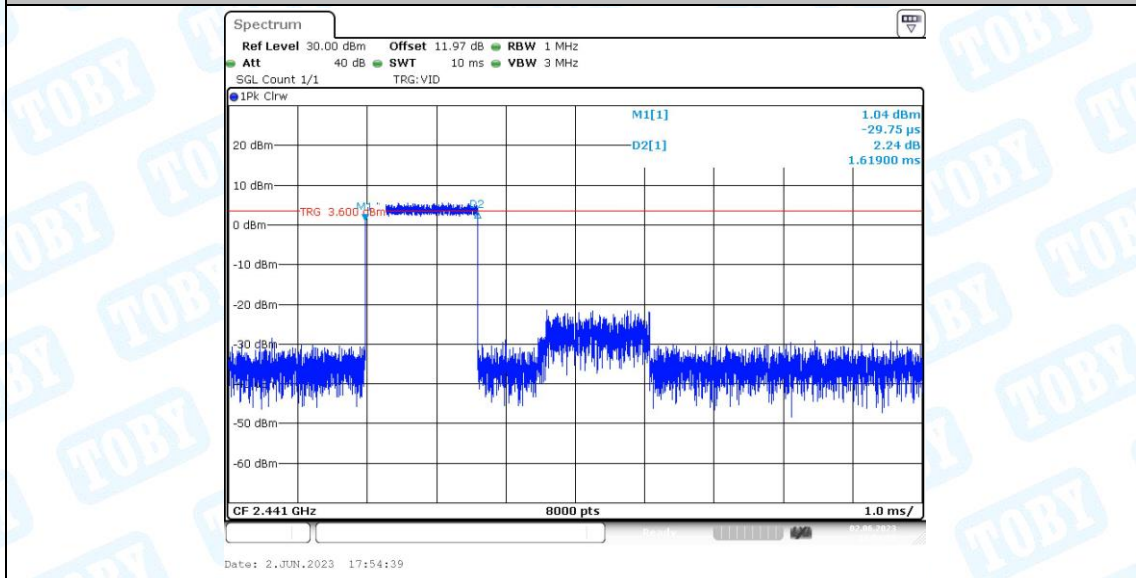
2DH3_Ant1_Hop



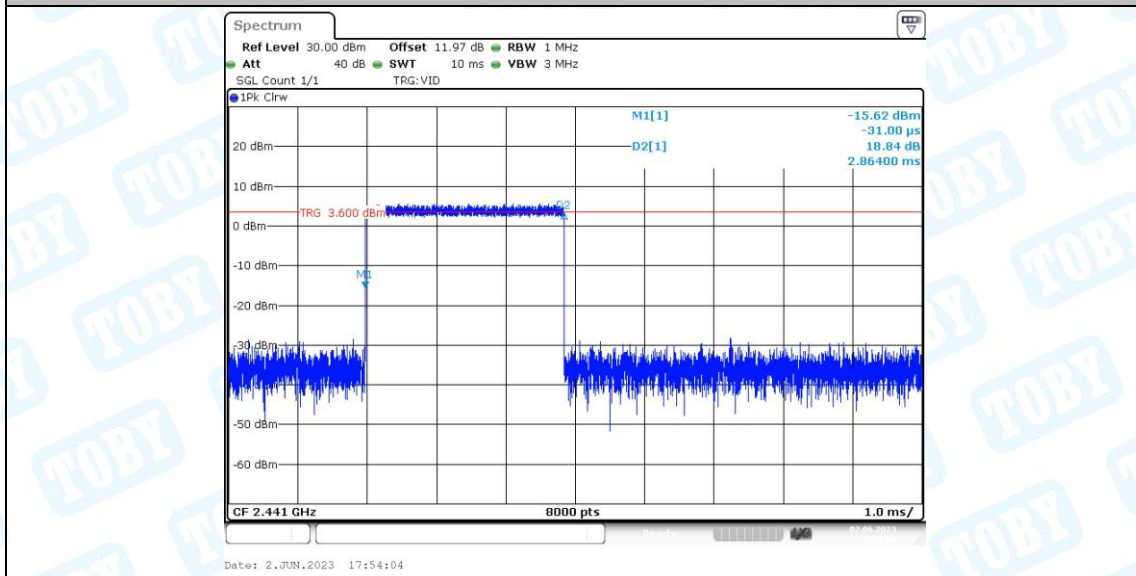
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



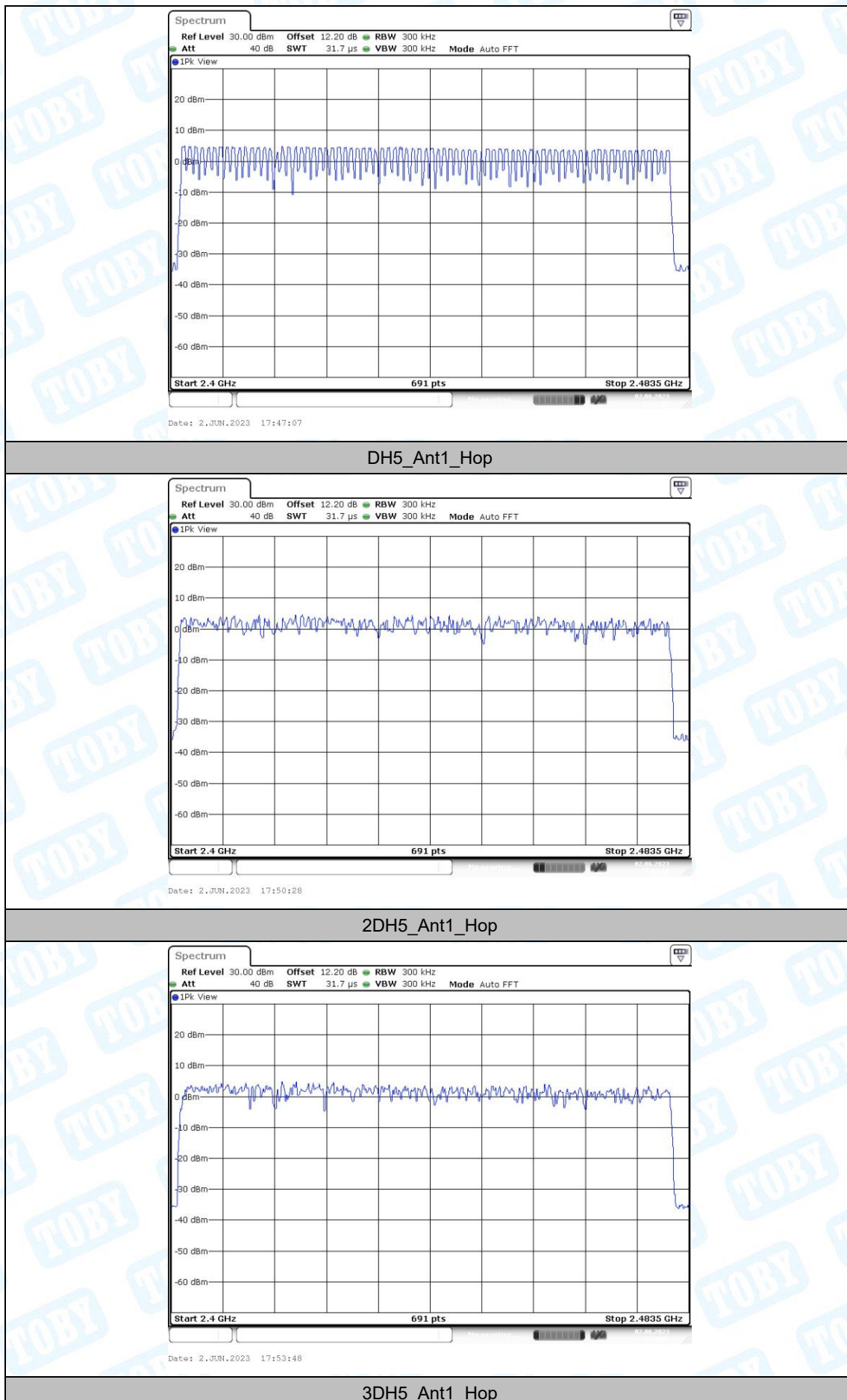
3DH5_Ant1_Hop

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

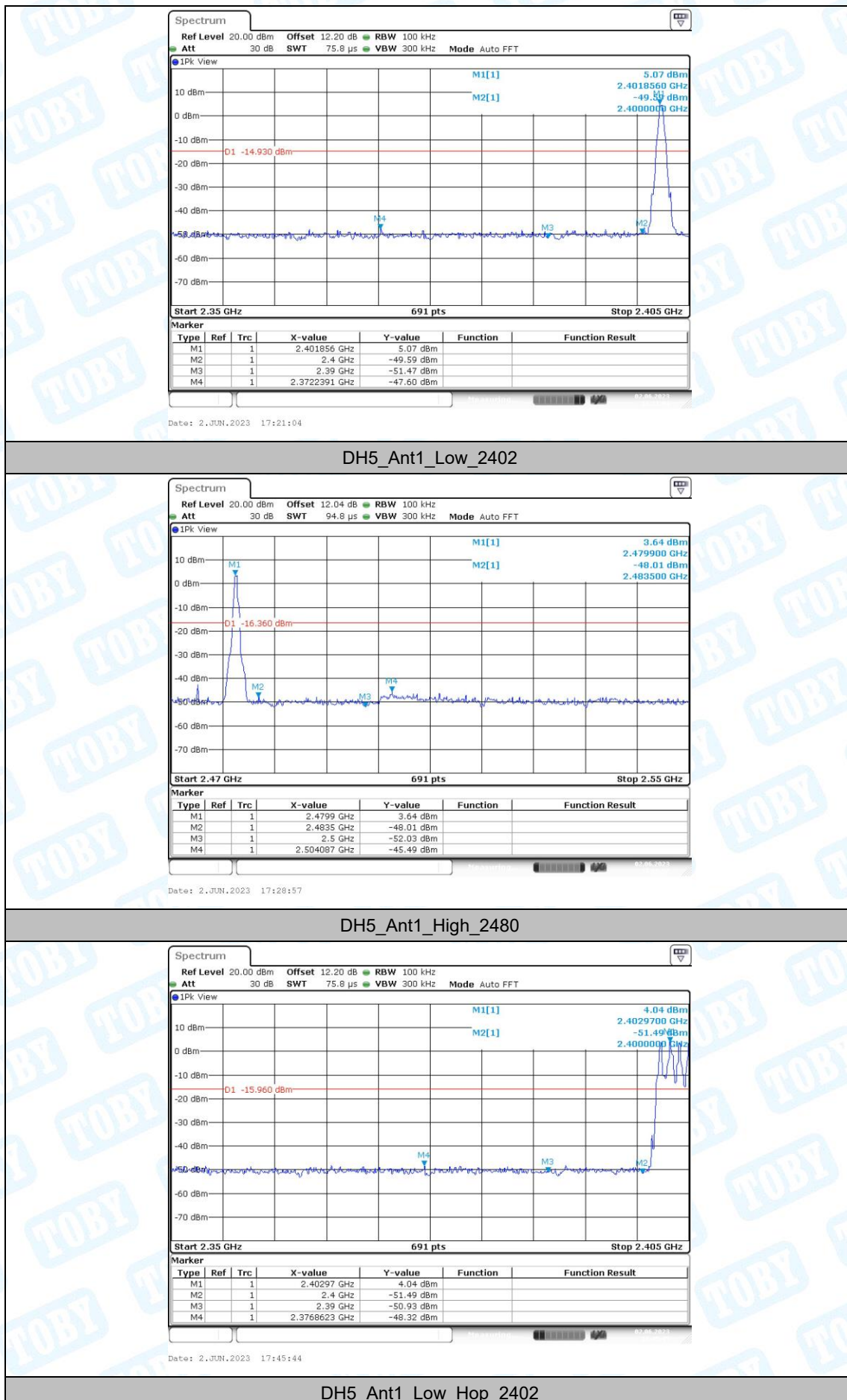


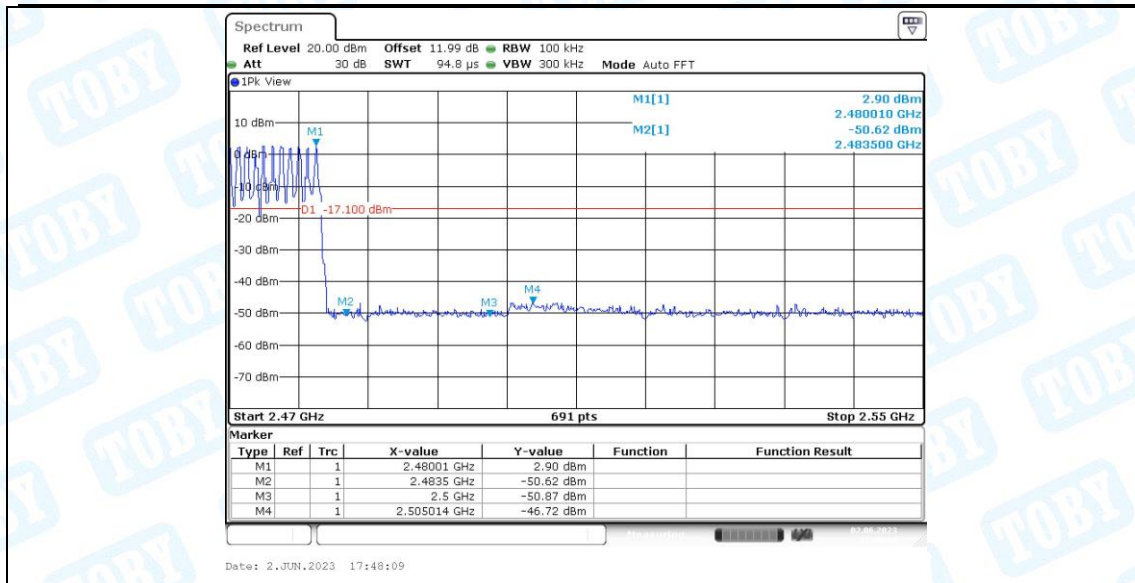
7. Band edge measurements

7.1. Test Result

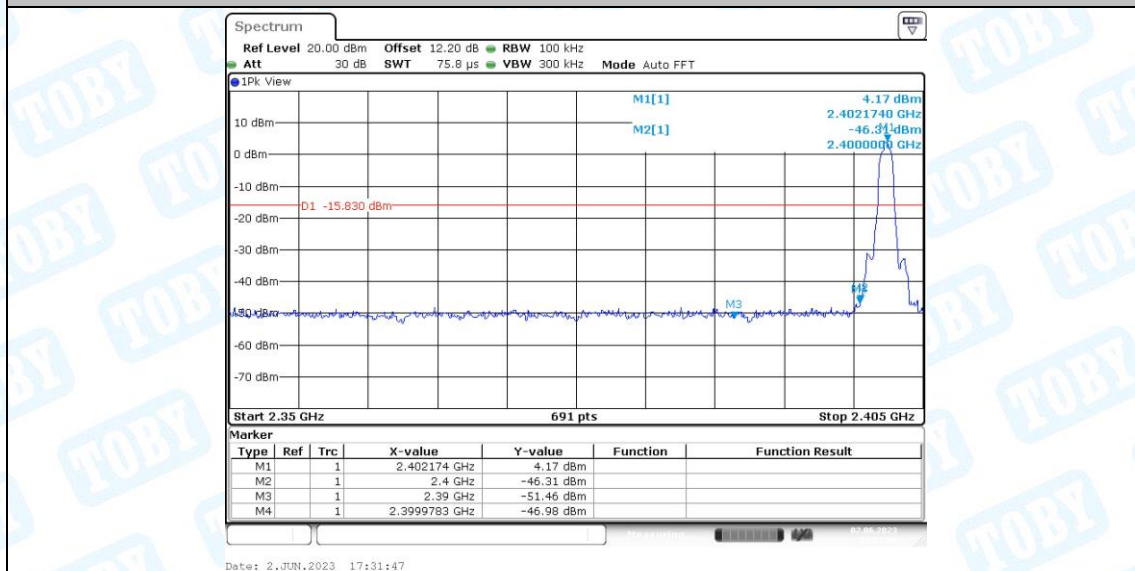
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.07	-47.6	≤-14.93	PASS
		High	2480	3.64	-45.49	≤-16.36	PASS
		Low	Hop_2402	4.04	-48.32	≤-15.96	PASS
		High	Hop_2480	2.90	-46.72	≤-17.1	PASS
2DH5	Ant1	Low	2402	4.17	-46.98	≤-15.83	PASS
		High	2480	3.24	-46.66	≤-16.76	PASS
		Low	Hop_2402	1.24	-47.84	≤-18.76	PASS
		High	Hop_2480	1.12	-45.32	≤-18.88	PASS
3DH5	Ant1	Low	2402	4.90	-47.82	≤-15.1	PASS
		High	2480	1.91	-46.52	≤-18.09	PASS
		Low	Hop_2402	2.54	-47.49	≤-17.46	PASS
		High	Hop_2480	0.70	-45.83	≤-19.3	PASS

7.2. Test Graphs

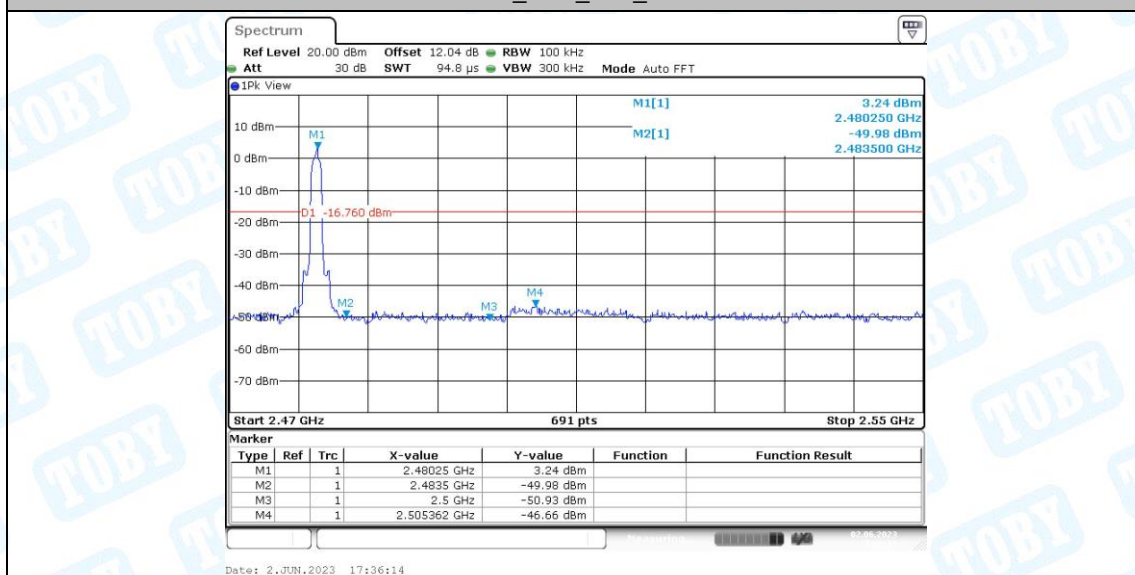




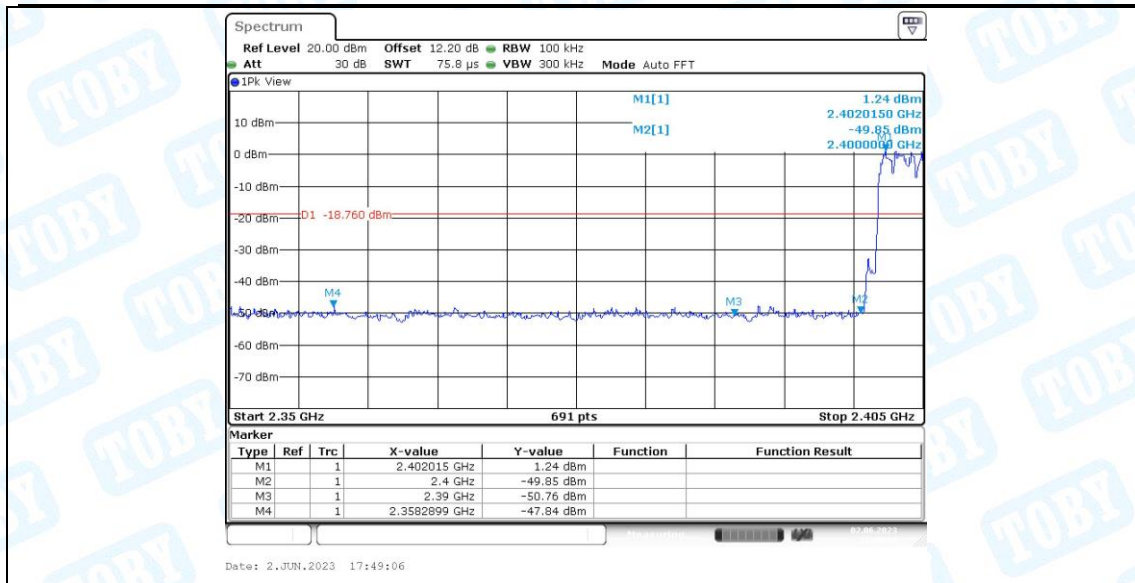
DH5_Ant1_High_Hop_2480



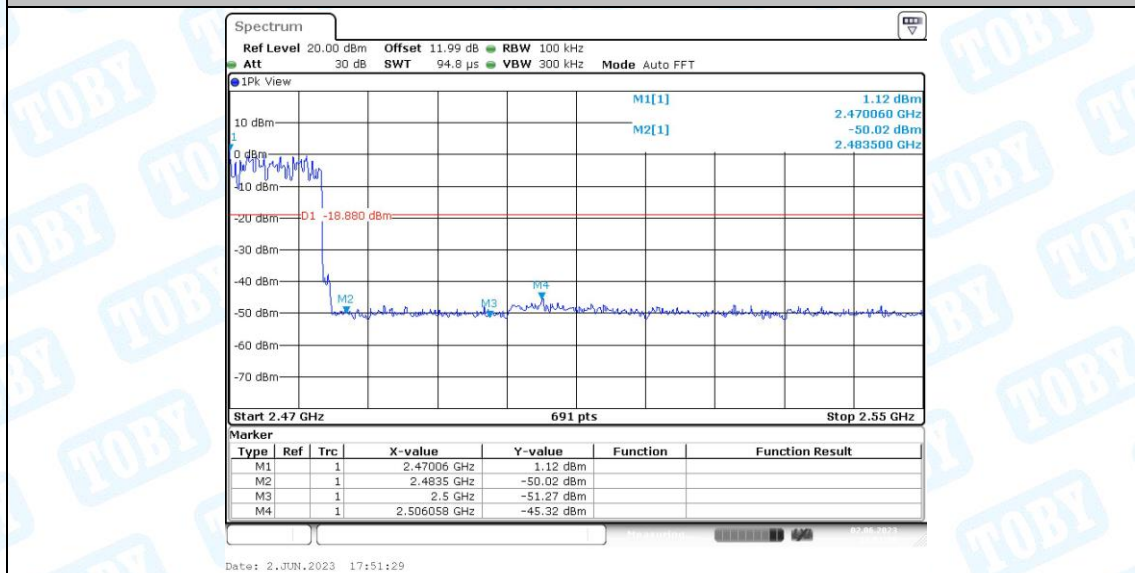
2DH5_Ant1_Low_2402



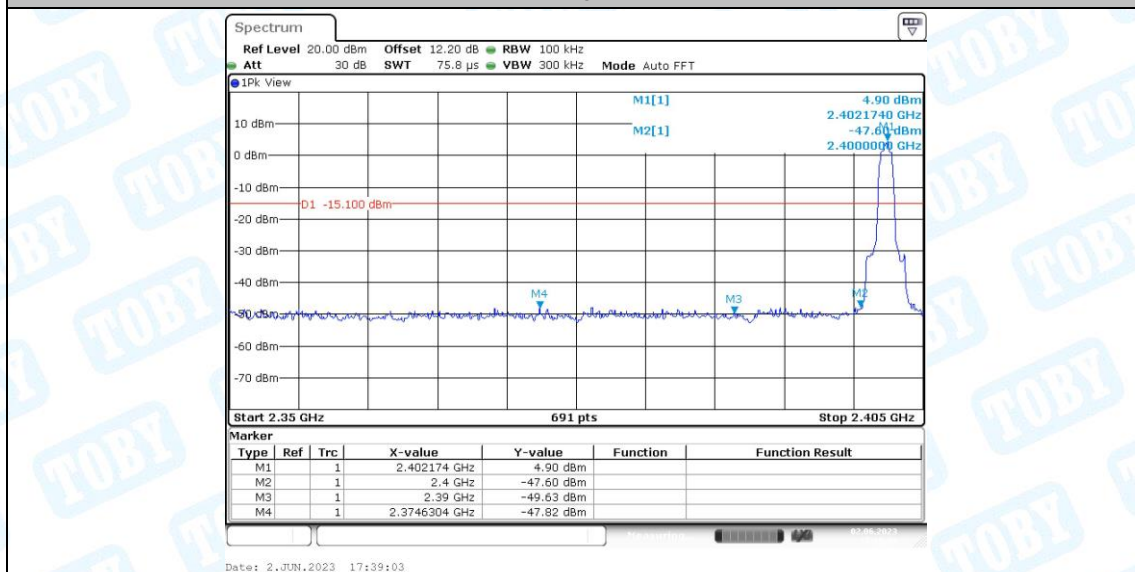
2DH5_Ant1_High_2480



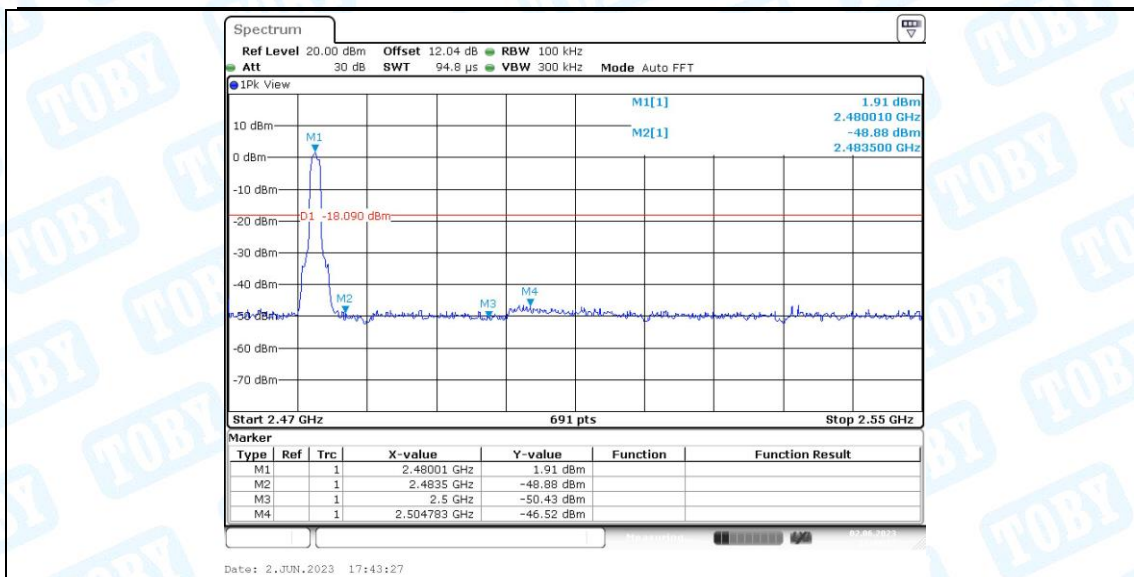
2DH5_Ant1_Low_Hop_2402



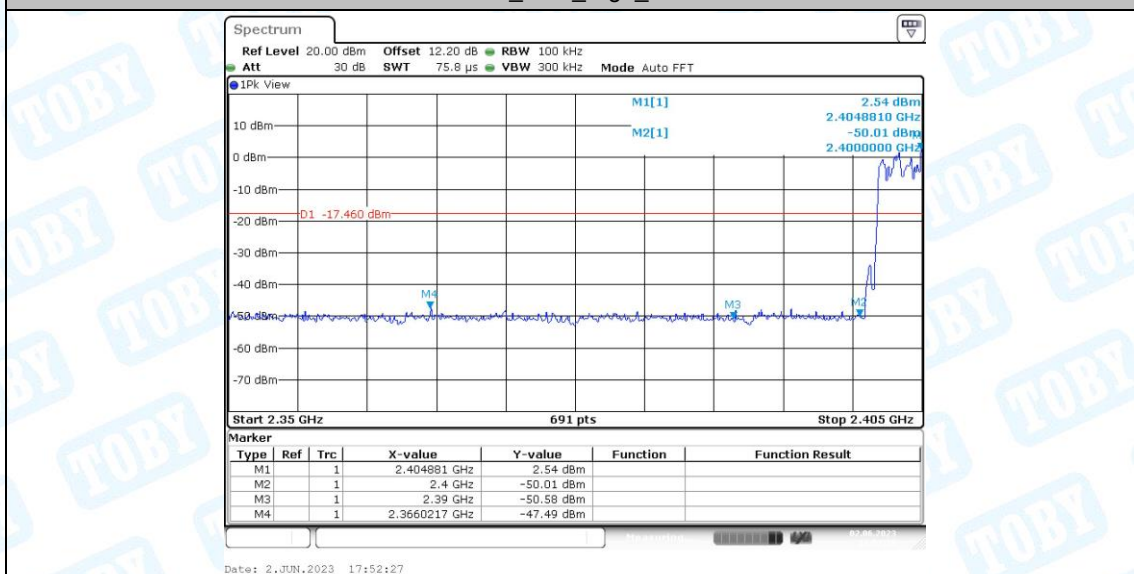
2DH5_Ant1_High_Hop_2480



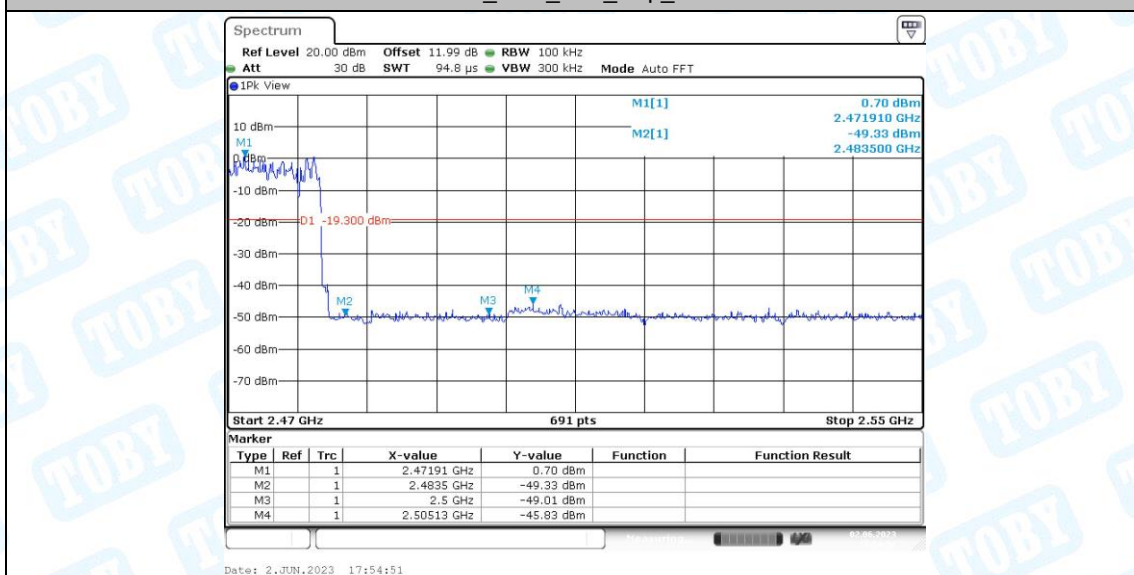
3DH5_Ant1_Low_2402



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	4.91	4.91	---	PASS
			30~1000	4.91	-57.32	≤-15.09	PASS
			1000~26500	4.91	-49.24	≤-15.09	PASS
		2441	Reference	4.09	4.09	---	PASS
			30~1000	4.09	-58.09	≤-15.91	PASS
			1000~26500	4.09	-49.07	≤-15.91	PASS
		2480	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-57.98	≤-16.4	PASS
			1000~26500	3.60	-49.43	≤-16.4	PASS
2DH5	Ant1	2402	Reference	4.73	4.73	---	PASS
			30~1000	4.73	-57.82	≤-15.27	PASS
			1000~26500	4.73	-48.41	≤-15.27	PASS
		2441	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-58.34	≤-16.03	PASS
			1000~26500	3.97	-49.07	≤-16.03	PASS
		2480	Reference	3.45	3.45	---	PASS
			30~1000	3.45	-58.48	≤-16.55	PASS
			1000~26500	3.45	-48.79	≤-16.55	PASS
3DH5	Ant1	2402	Reference	4.82	4.82	---	PASS
			30~1000	4.82	-57.9	≤-15.18	PASS
			1000~26500	4.82	-48.41	≤-15.18	PASS
		2441	Reference	4.04	4.04	---	PASS
			30~1000	4.04	-58.54	≤-15.96	PASS
			1000~26500	4.04	-49.15	≤-15.96	PASS
		2480	Reference	3.54	3.54	---	PASS
			30~1000	3.54	-58.16	≤-16.46	PASS
			1000~26500	3.54	-48.78	≤-16.46	PASS

8.2.Test Graphs

