

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

General Description of EUT	
Product Name:	Smart watch
Test Model:	FT10M
Sample ID:	HC-C-202307-0235-01-03-1#
Environmental Conditions	
Temperature:	23.6℃
Relative Humidity:	46%
Test Voltage:	DC 3.8V
Test Engineer:	Beryl.zhang
Note: For a more detailed features description, please refer to the report TBR-C-202307-0235-81.	

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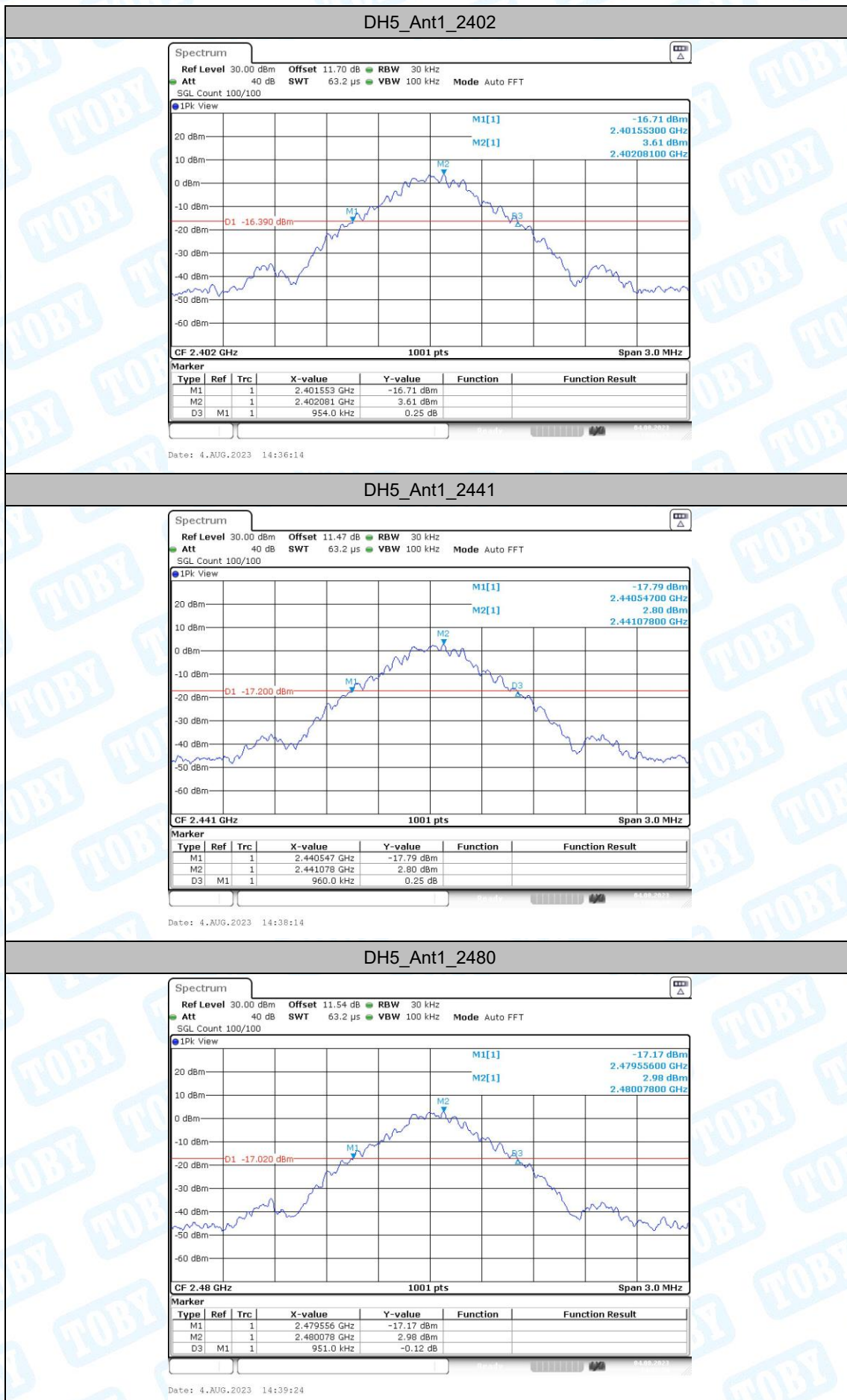
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1. 20dB Emission Bandwidth

1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	---	---
		2441	0.96	---	---
		2480	0.95	---	---
2DH5	Ant1	2402	1.33	---	---
		2441	1.28	---	---
		2480	1.33	---	---
3DH5	Ant1	2402	1.30	---	---
		2441	1.29	---	---
		2480	1.30	---	---

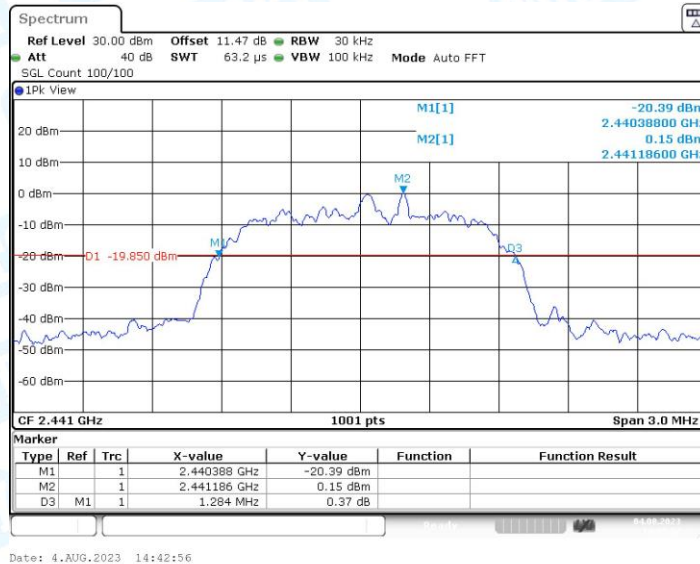
1.2. Test Graphs



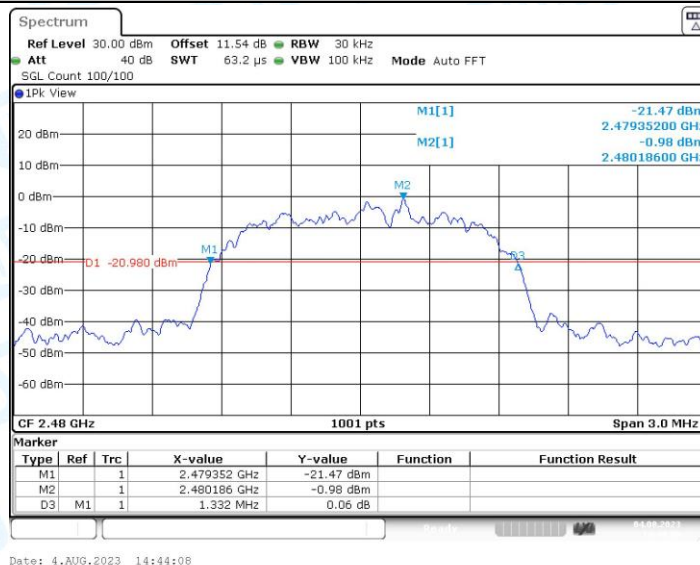
2DH5_Ant1_2402



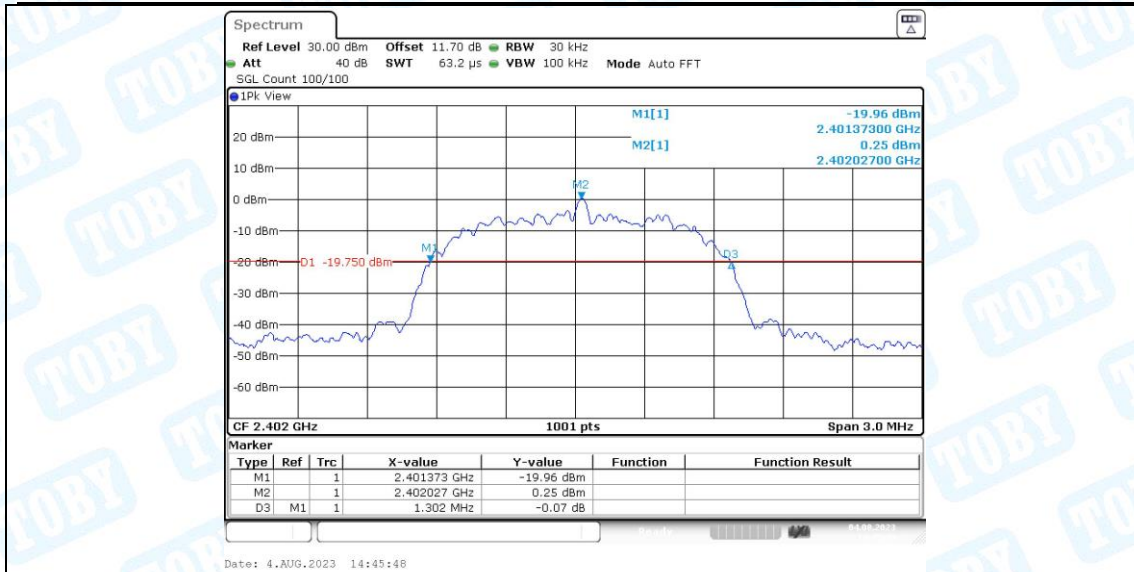
2DH5_Ant1_2441



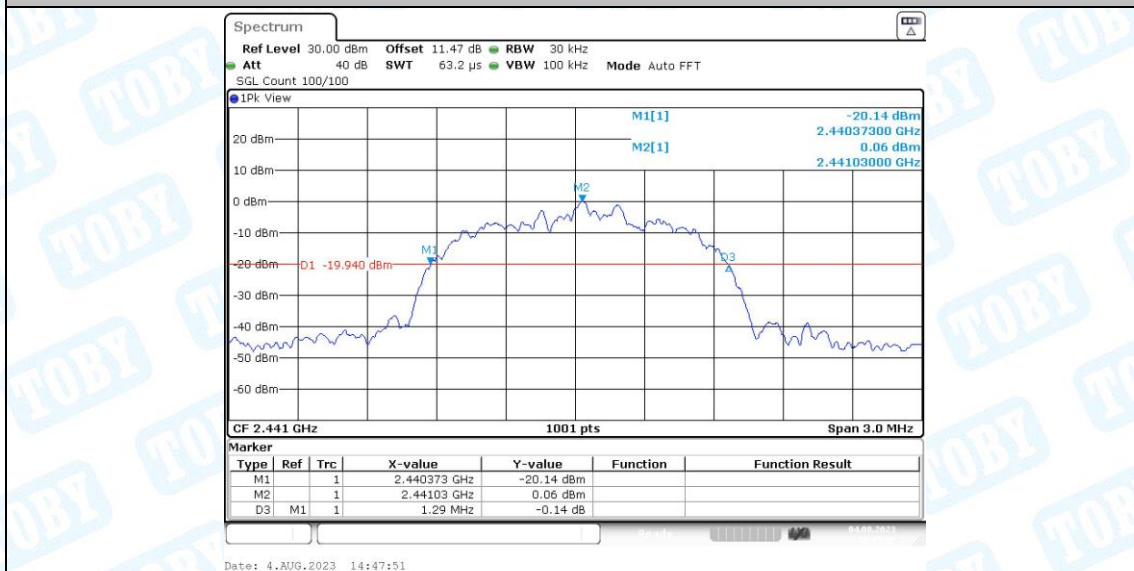
2DH5_Ant1_2480



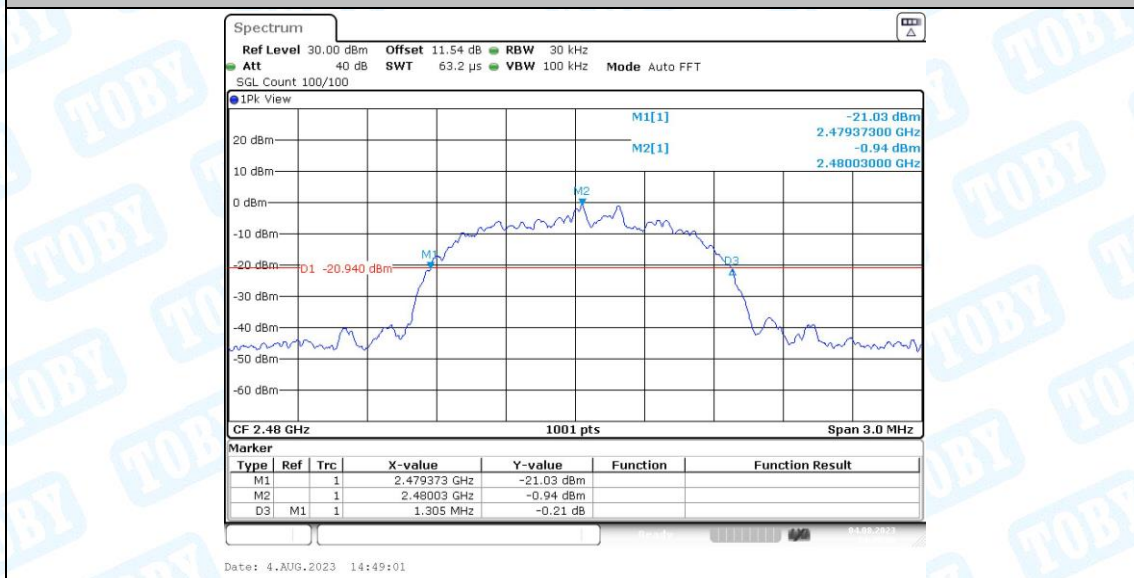
3DH5_Ant1_2402



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	0.884	2401.5774	2402.4615	---	---
		2441	0.881	2440.5804	2441.4615	---	---
		2480	0.908	2479.5684	2480.4765	---	---
2DH5	Ant1	2402	1.187	2401.4246	2402.6114	---	---
		2441	1.184	2440.4246	2441.6084	---	---
		2480	1.181	2479.4276	2480.6084	---	---
3DH5	Ant1	2402	1.208	2401.4126	2402.6204	---	---
		2441	1.19	2440.4246	2441.6144	---	---
		2480	1.178	2479.4276	2480.6054	---	---

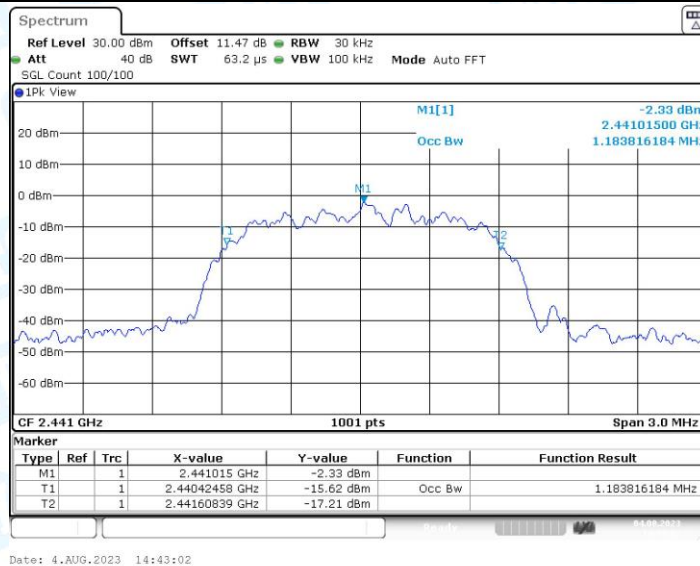
2.2.Test Graphs



2DH5_Ant1_2402



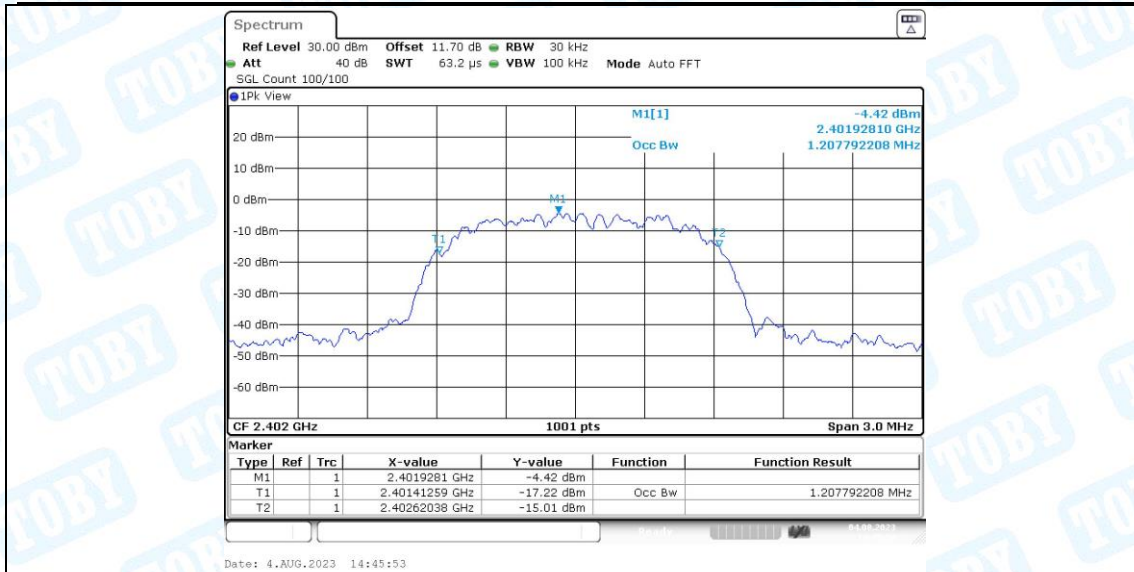
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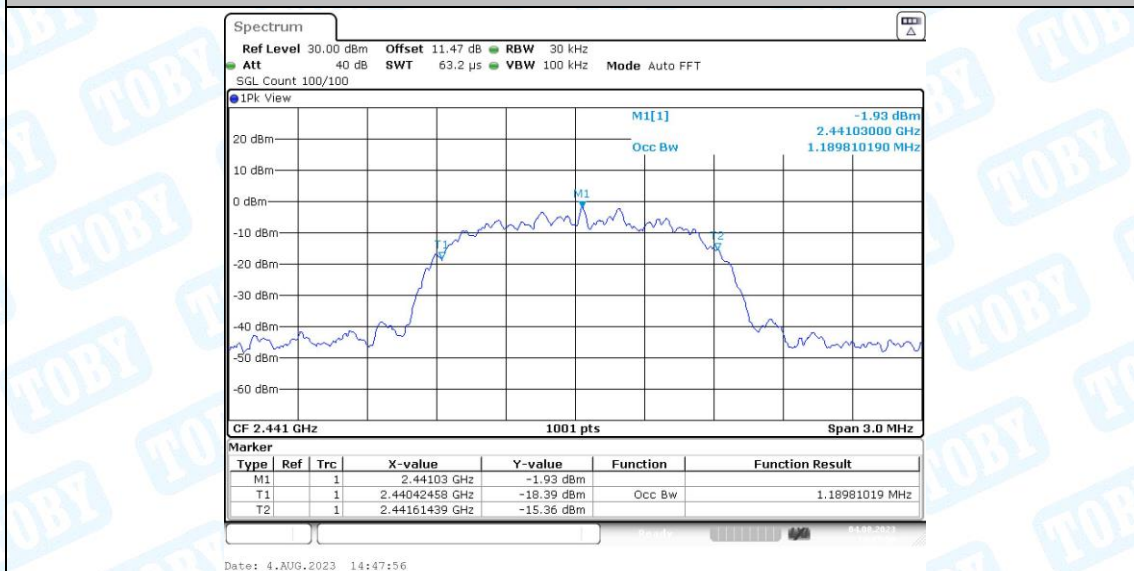
2DH5_Ant1_2480



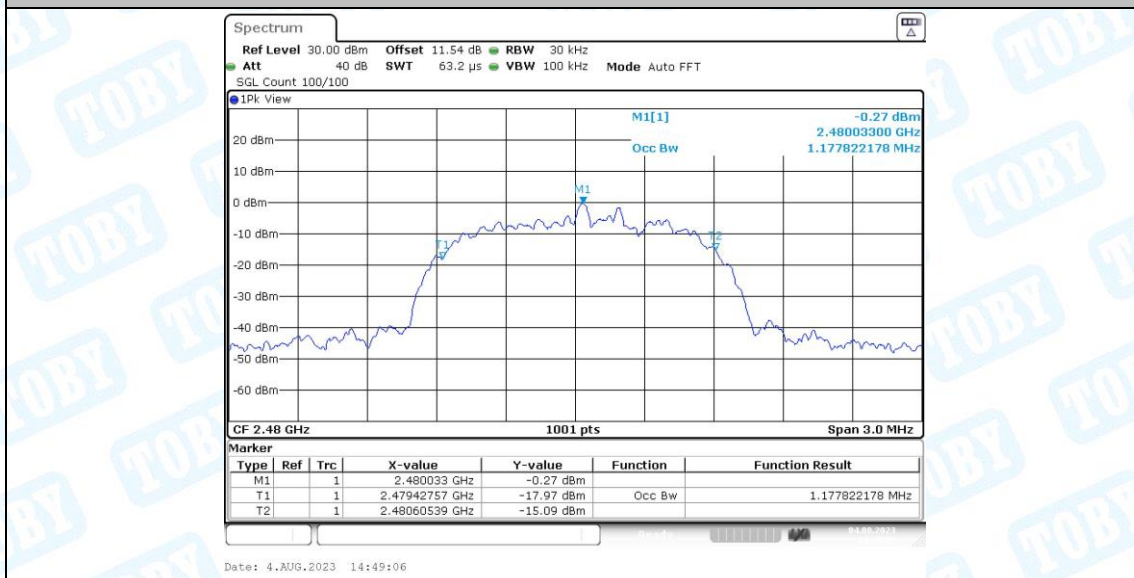
3DH5_Ant1_2402



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	6.08	≤21	PASS
		2480	6.14	≤21	PASS
2DH5	Ant1	2402	5.01	≤21	PASS
		2441	4.29	≤21	PASS
		2480	4.13	≤21	PASS
3DH5	Ant1	2402	4.81	≤21	PASS
		2441	4.43	≤21	PASS
		2480	4.35	≤21	PASS

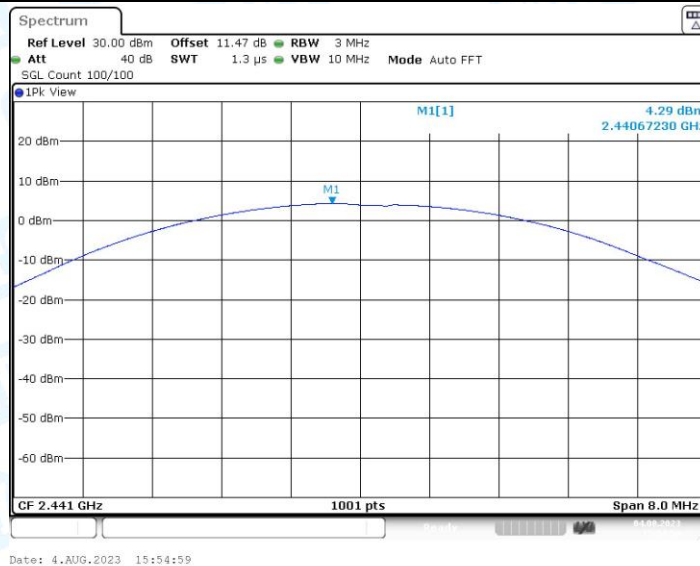
3.2. Test Graphs



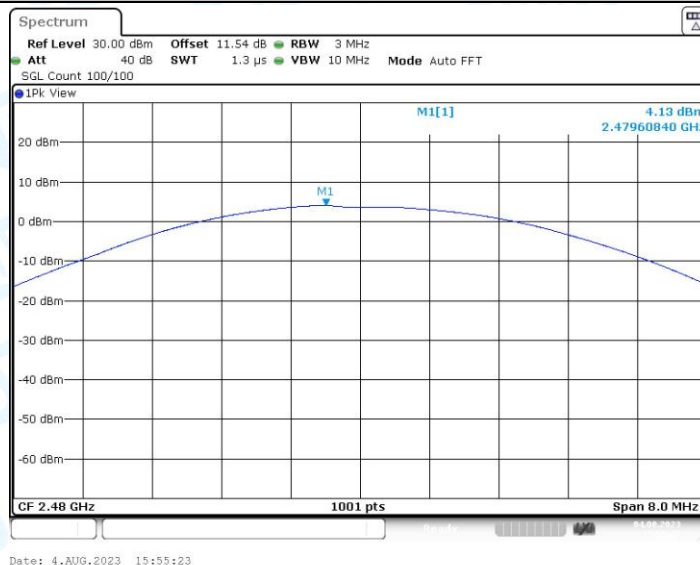
2DH5_Ant1_2402



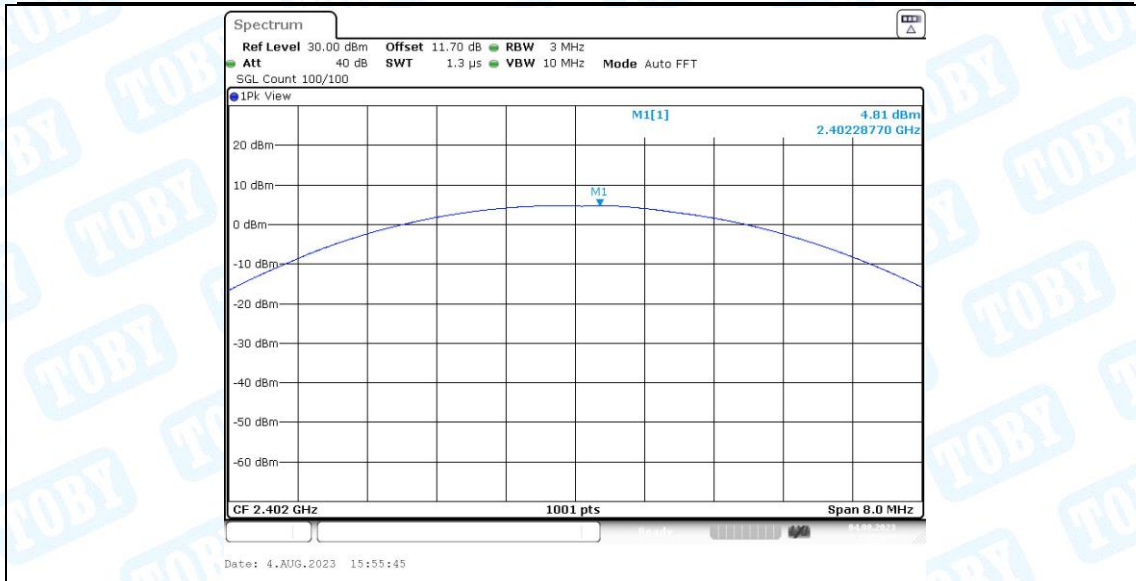
2DH5_Ant1_2441



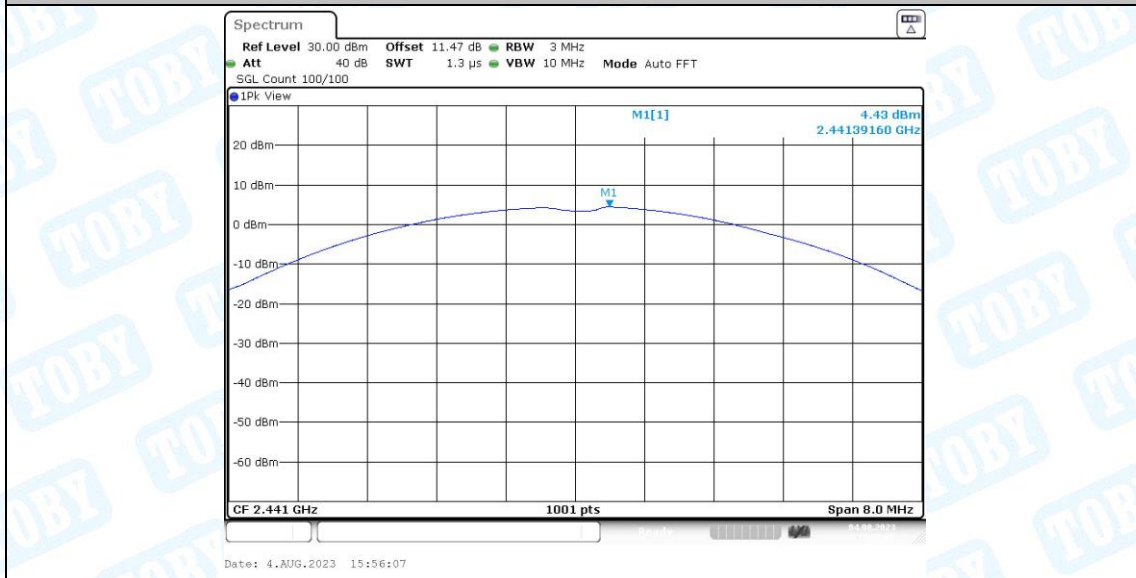
2DH5_Ant1_2480



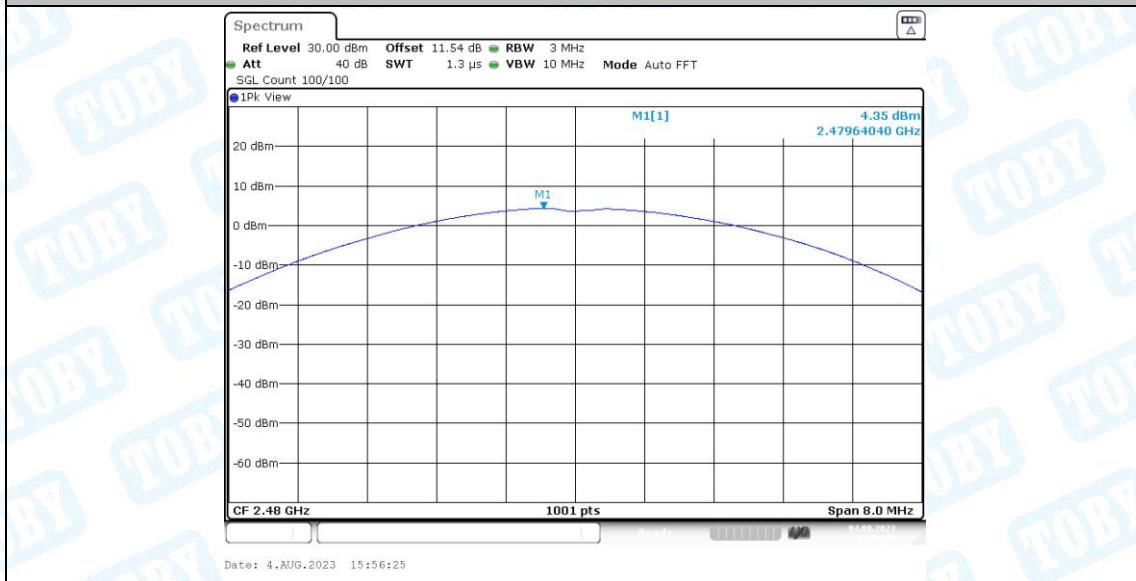
3DH5_Ant1_2402



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	1.171	≥ 0.960	PASS
2DH5	Ant1	Hop	0.942	≥ 0.887	PASS
3DH5	Ant1	Hop	1.165	≥ 0.867	PASS

4.2. Test Graphs

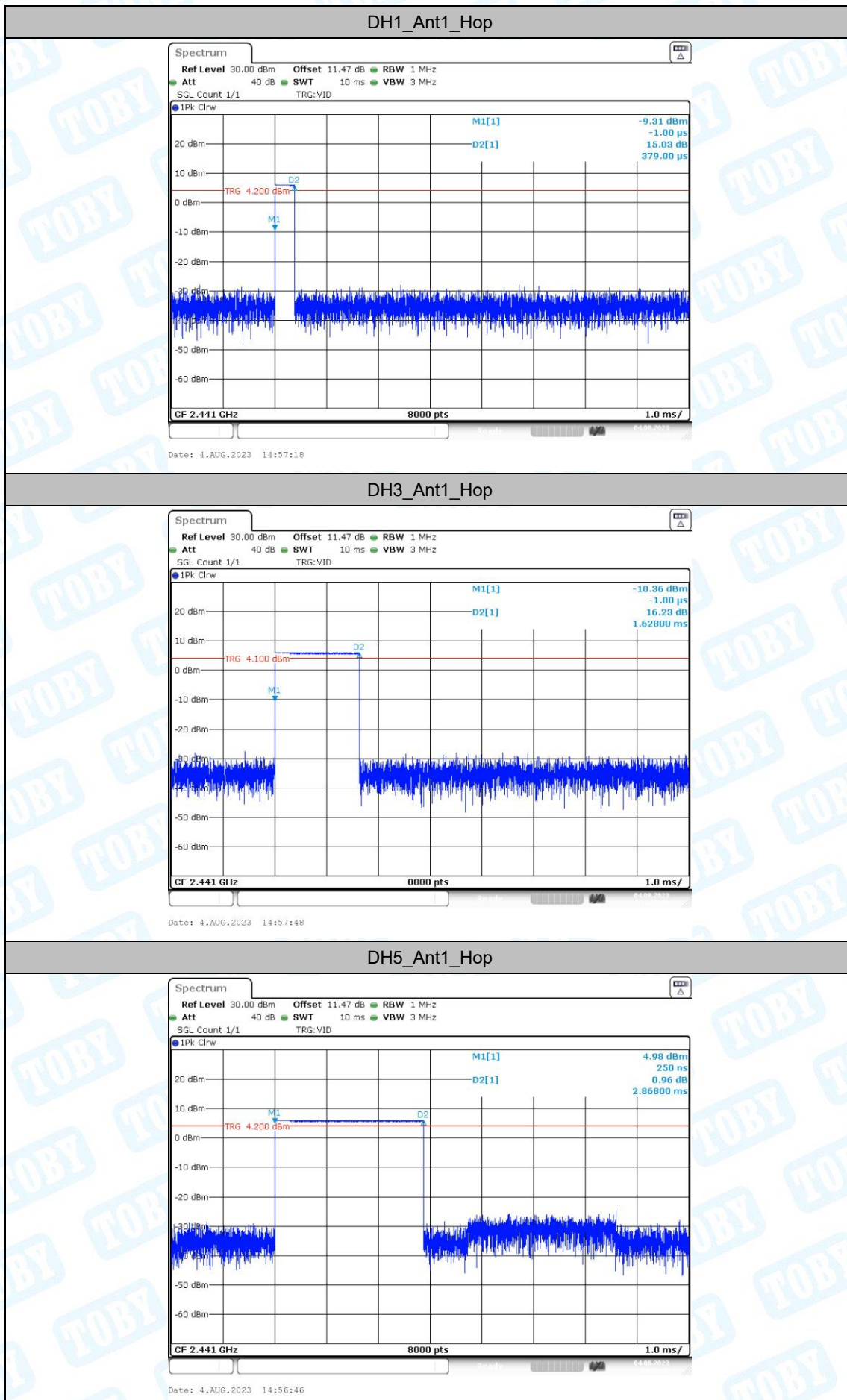


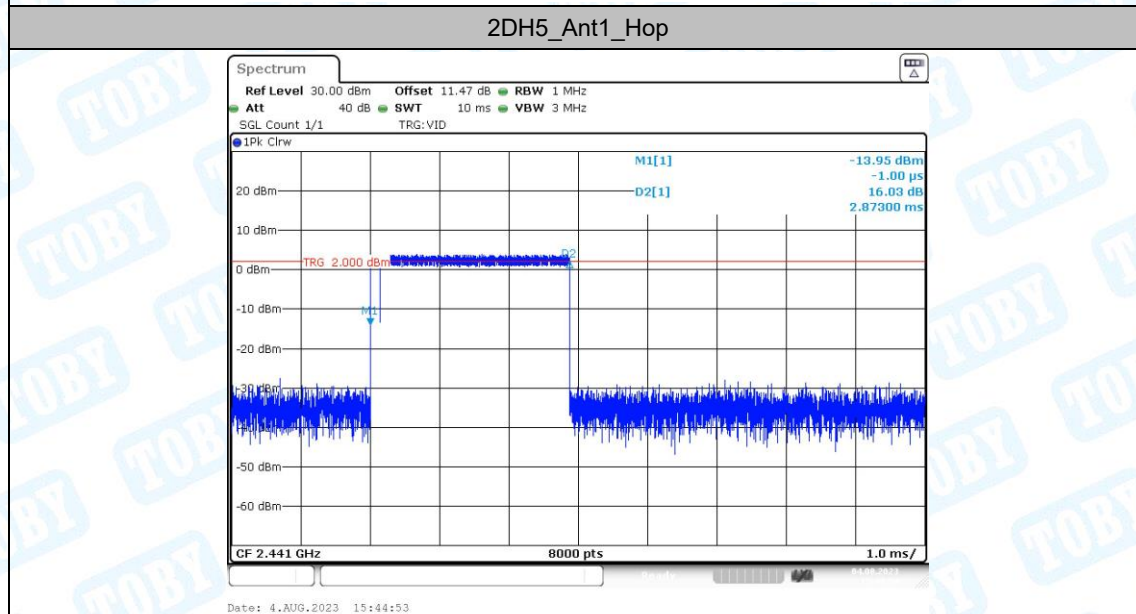
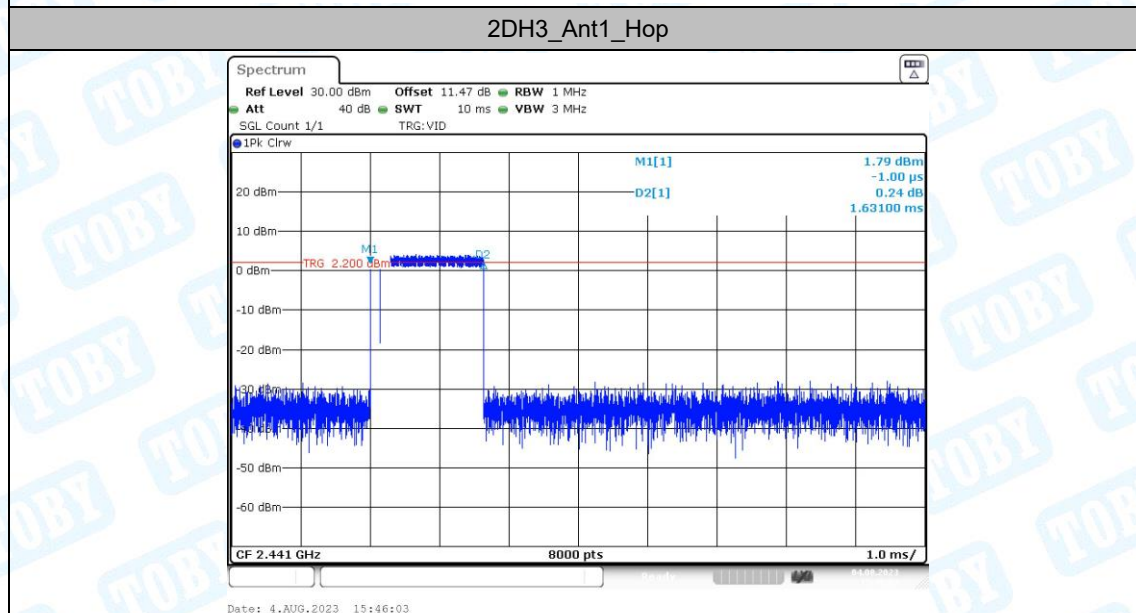
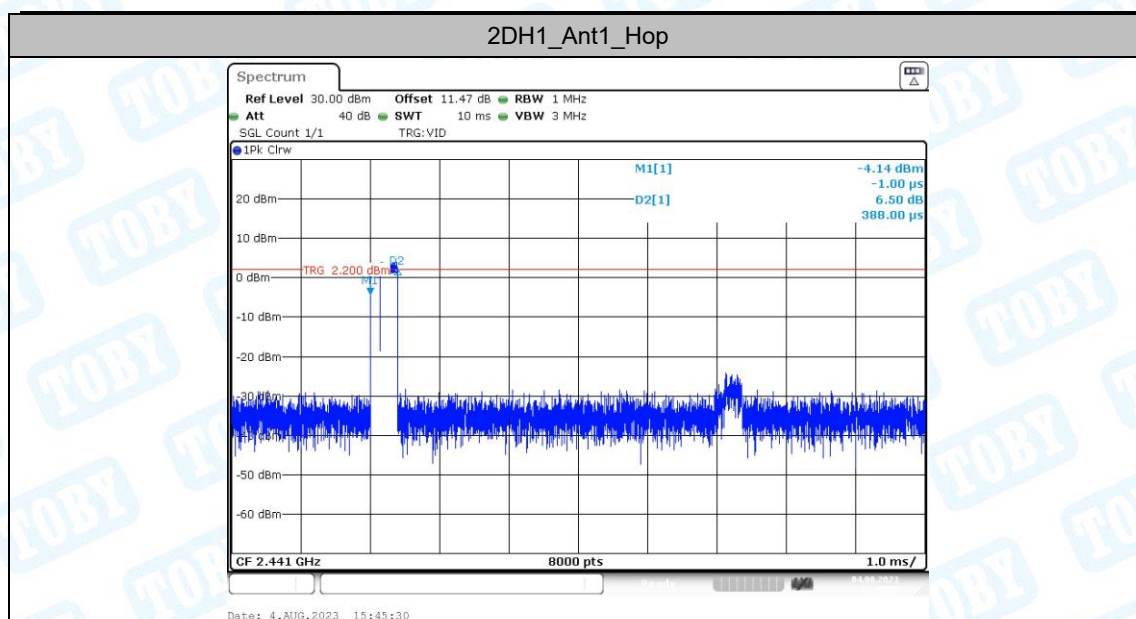
5. Time of occupancy

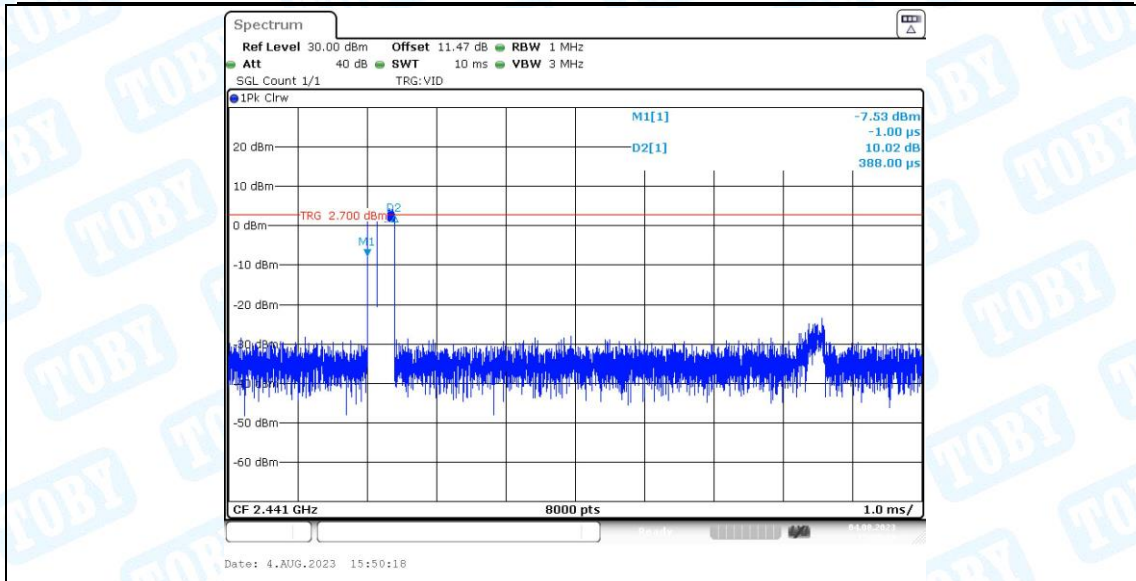
5.1. Test Result

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	2.868	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.873	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.630	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.874	106.67	0.307	≤0.4	PASS

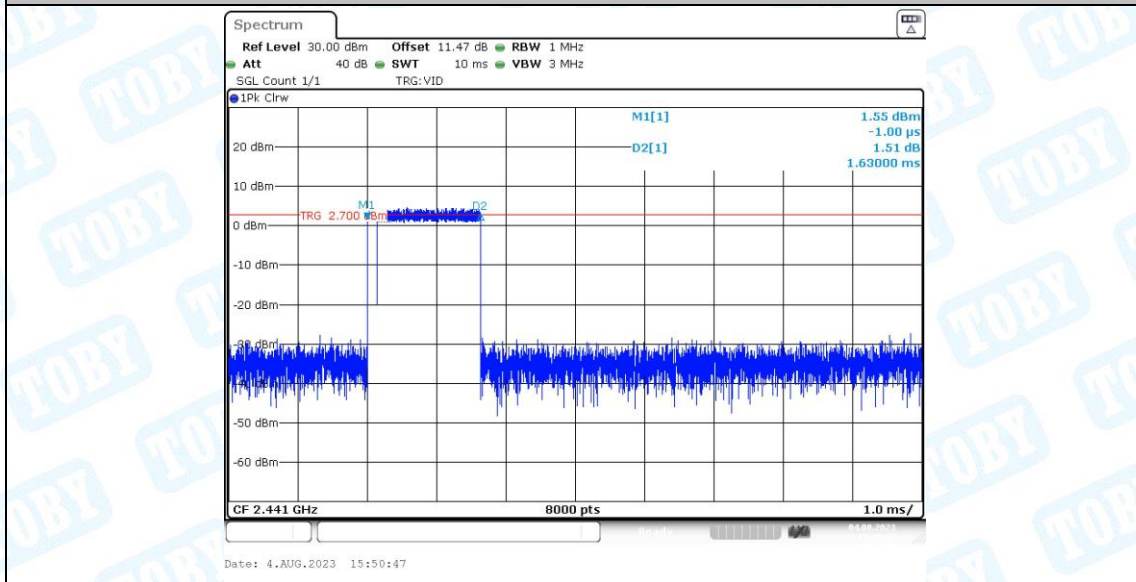
5.2. Test Graphs



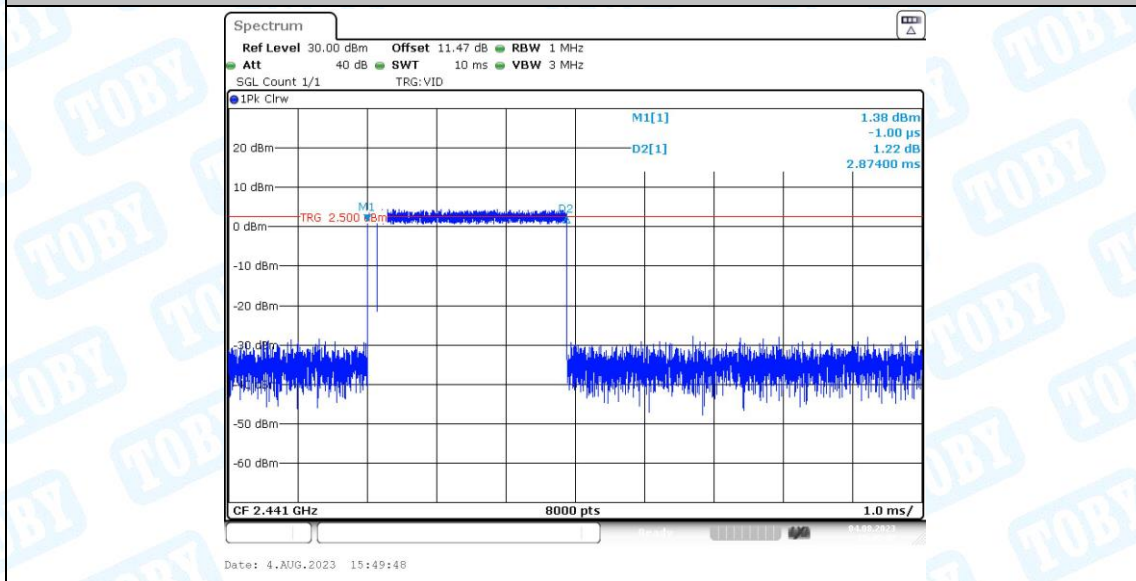




3DH3_Ant1_Hop



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

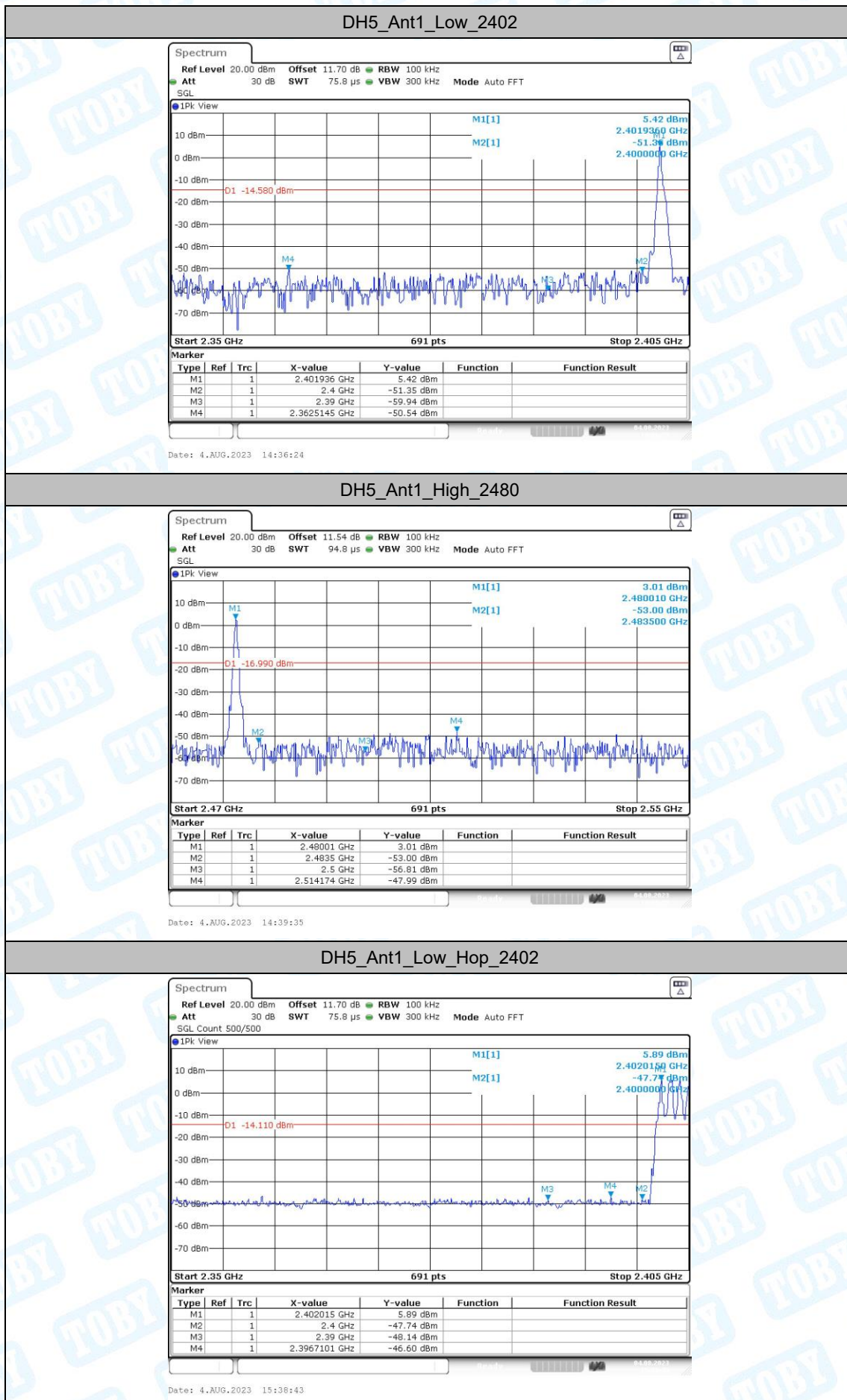


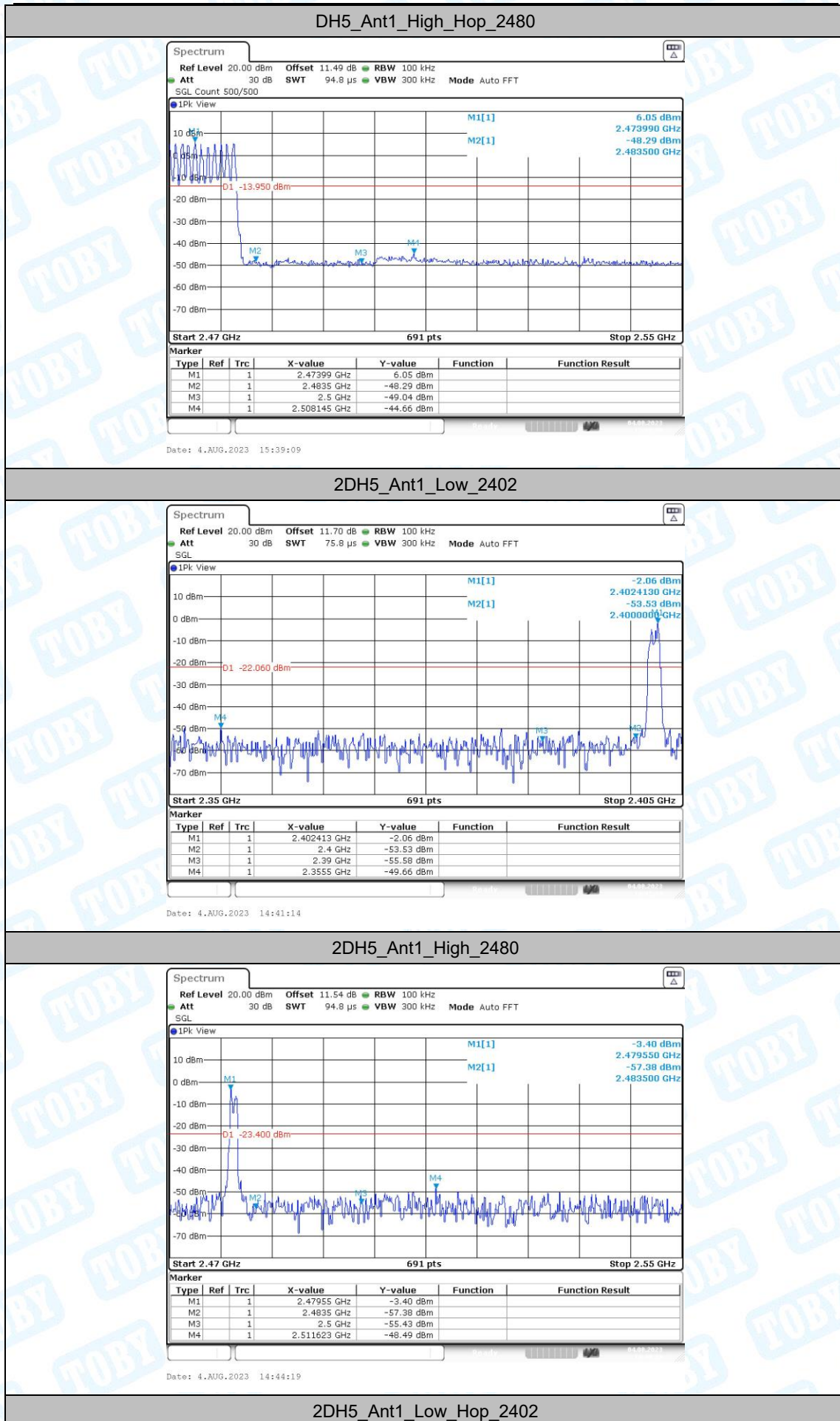
7. Band edge measurements

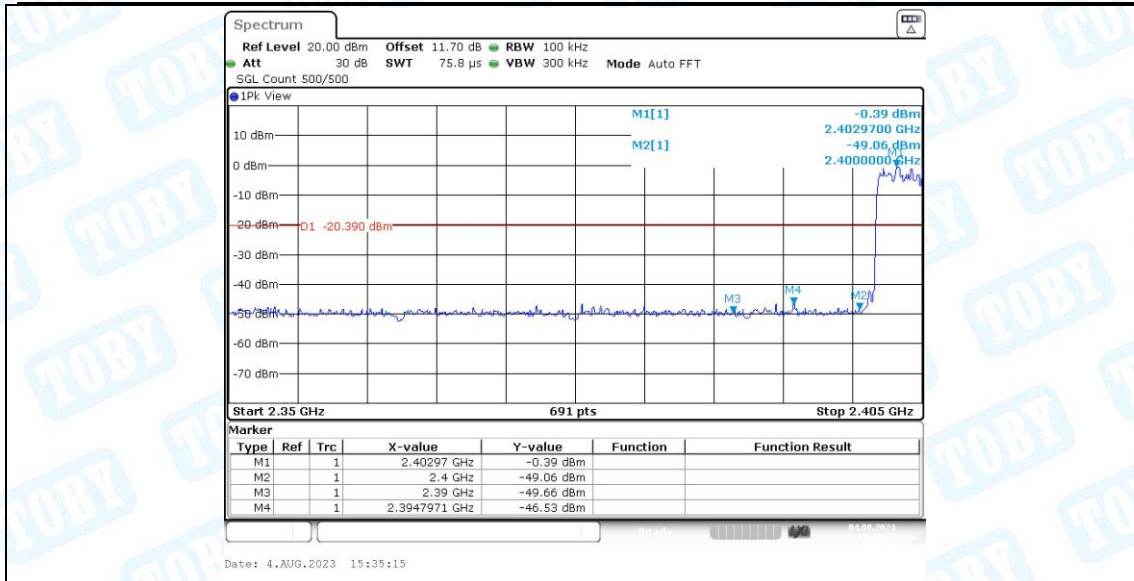
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.42	-50.54	≤-14.58	PASS
		High	2480	3.01	-47.99	≤-16.99	PASS
		Low	Hop_2402	5.89	-46.6	≤-14.11	PASS
		High	Hop_2480	6.05	-44.66	≤-13.95	PASS
2DH5	Ant1	Low	2402	-2.06	-49.66	≤-22.06	PASS
		High	2480	-3.40	-48.49	≤-23.4	PASS
		Low	Hop_2402	-0.39	-46.53	≤-20.39	PASS
		High	Hop_2480	3.13	-44.37	≤-16.87	PASS
3DH5	Ant1	Low	2402	-1.96	-49.39	≤-21.96	PASS
		High	2480	-2.64	-47.89	≤-22.64	PASS
		Low	Hop_2402	0.01	-47.1	≤-19.99	PASS
		High	Hop_2480	3.15	-43.91	≤-16.85	PASS

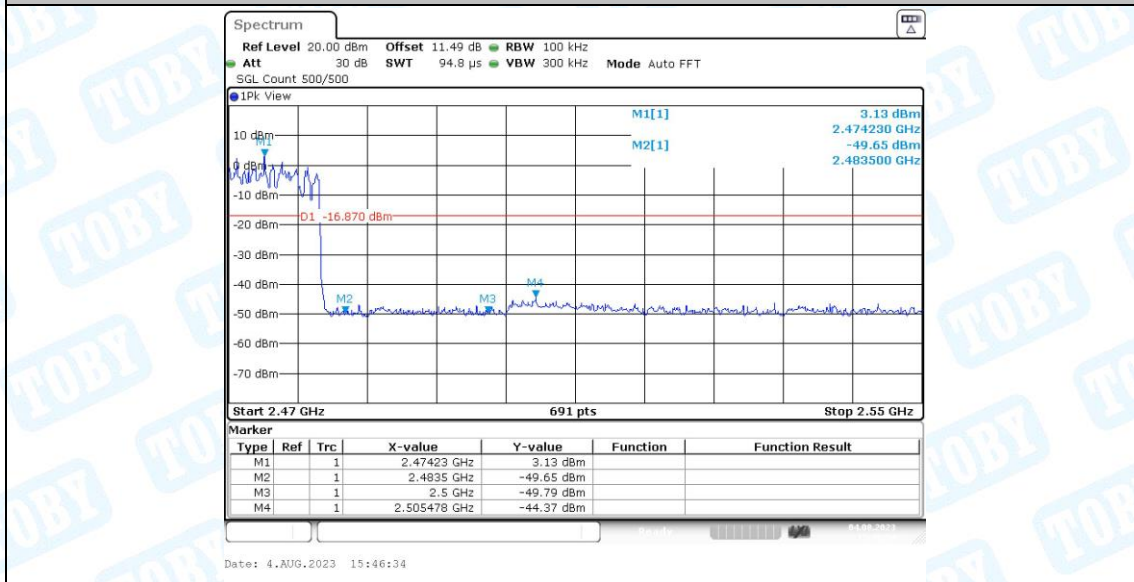
7.2.Test Graphs



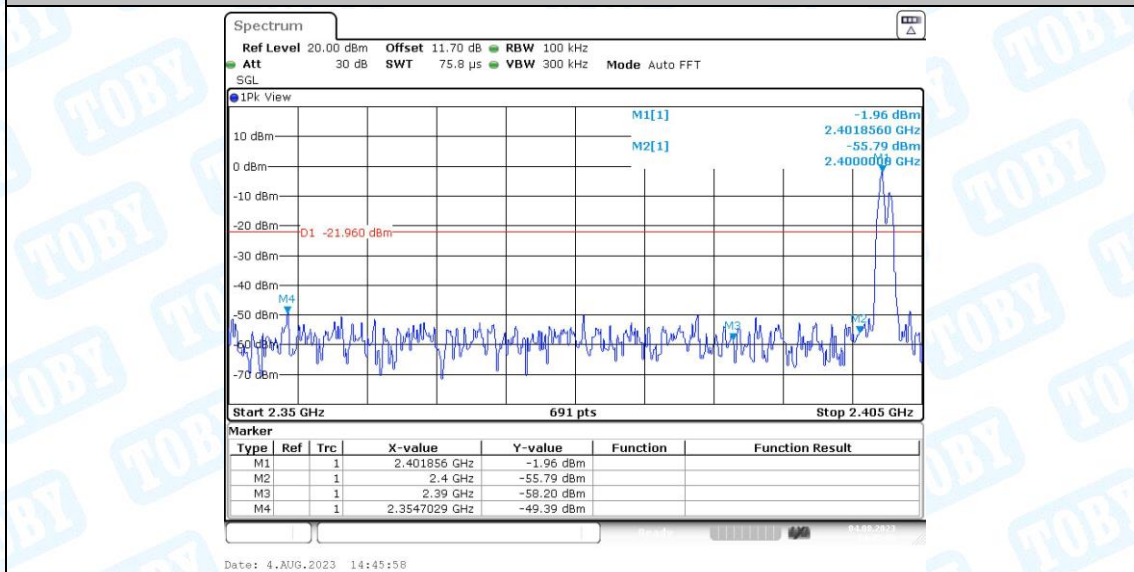




2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480