

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

General Description of EUT	
Product Name:	TV DECODER
Test Model:	VIP7300
Sample ID:	202202-0006-4-1#
Environmental Conditions	
Temperature:	24.6°C
Relative Humidity:	46%
Test Voltage:	DC 12V
Test Engineer:	Jianping Huang
Note: For a more detailed features description, please refer to the report TBR-C-202202-0006-4. The report only show the worst case data.	

Contents

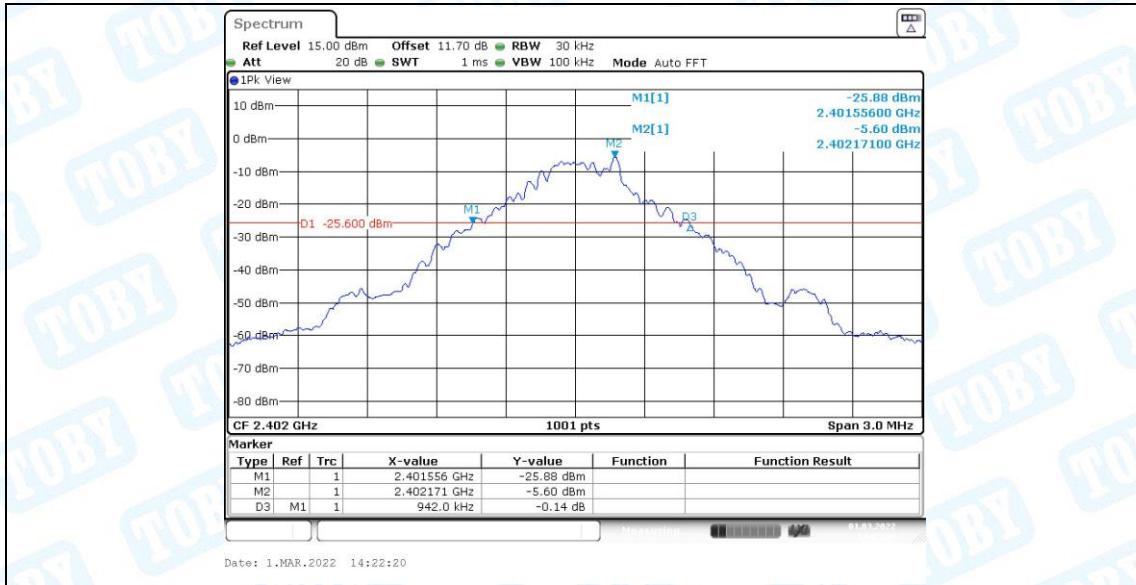
1. 20dB Emission Bandwidth.....	3
1.1. Test Result	3
1.2. Test Graphs	4
2. Occupied Channel Bandwidth.....	7
2.1. Test Result	7
2.2. Test Graphs	8
3. Maximum conducted output power.....	11
3.1. Test Result	11
3.2. Test Graphs	12
4. Carrier frequency separation	15
4.1. Test Result	15
4.2. Test Graphs	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	23
7.1. Test Result	23
7.2. Test Graphs	24
8. Conducted Spurious Emission.....	28
8.1. Test Result	28
8.2. Test Graphs	29
9. Duty Cycle.....	38
9.1. Test Result	38
9.2. Test Graphs	39
10. Emissions in Restricted Bands.....	42
10.1. Test Result.....	42
10.2. Test Graphs	43

1. 20dB Emission Bandwidth

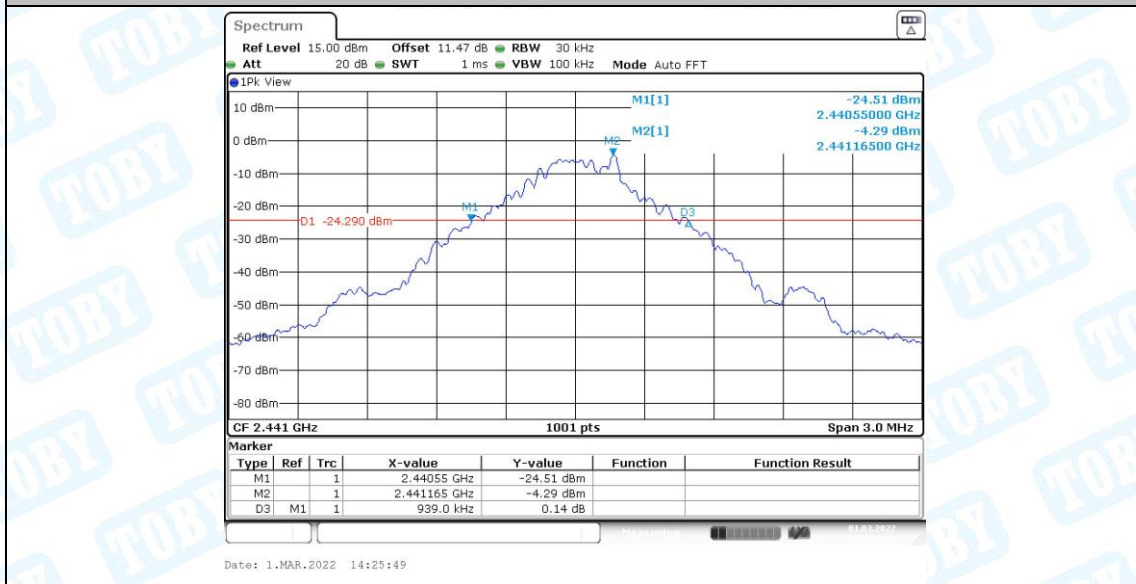
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.94	---	---
		2441	0.94	---	---
		2480	0.94	---	---
2DH5	Ant1	2402	1.31	---	---
		2441	1.35	---	---
		2480	1.36	---	---
3DH5	Ant1	2402	1.31	---	---
		2441	1.31	---	---
		2480	1.31	---	---

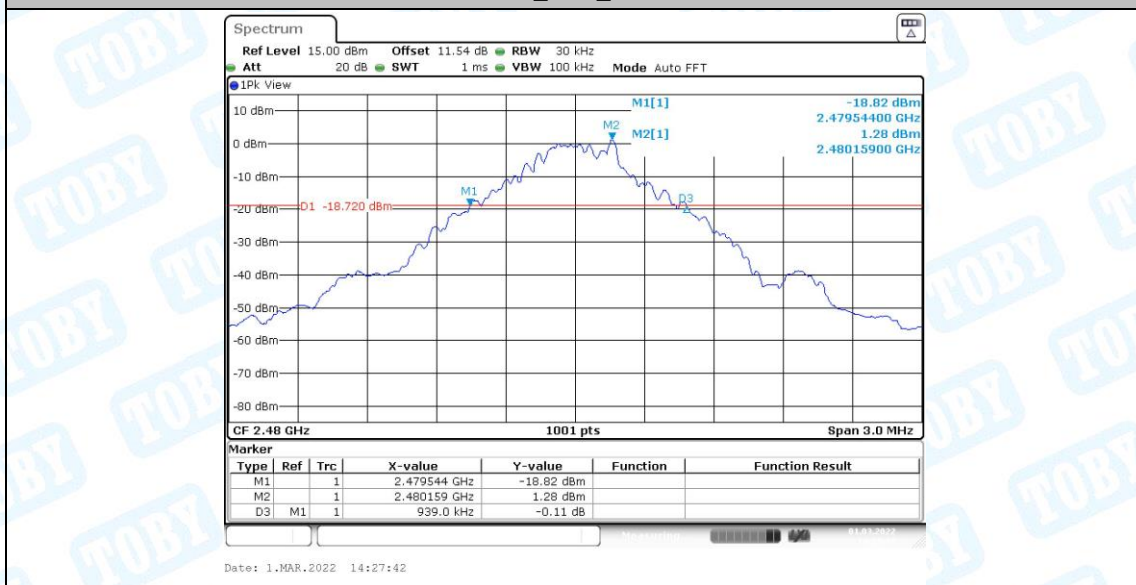
1.2. Test Graphs



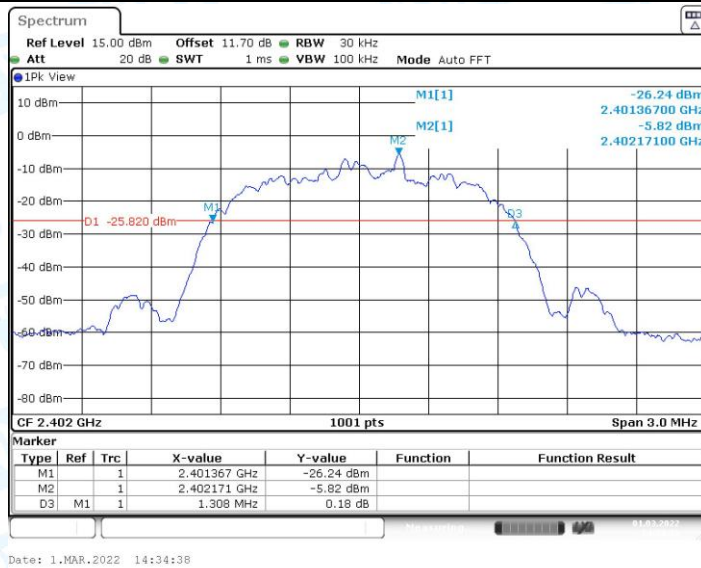
DH5_Ant1_2402



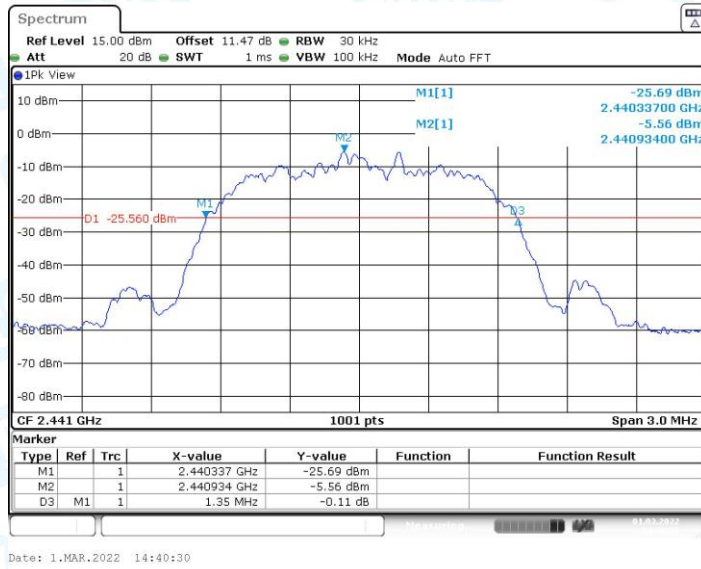
DH5_Ant1_2441



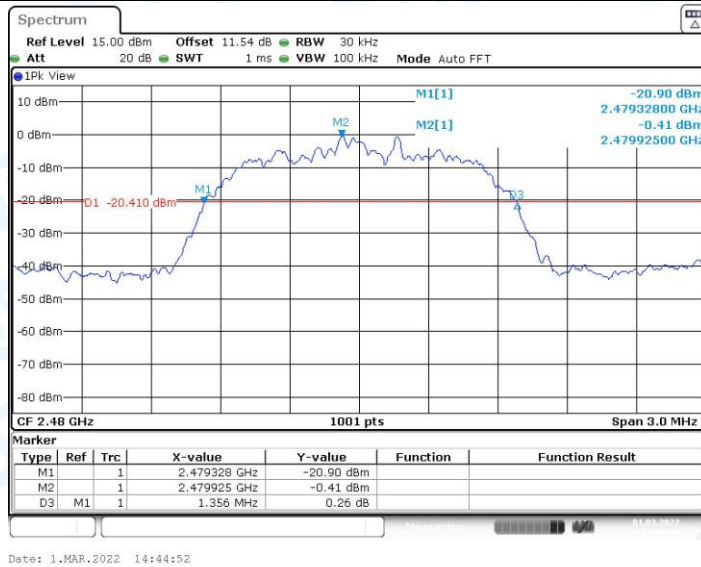
DH5_Ant1_2480



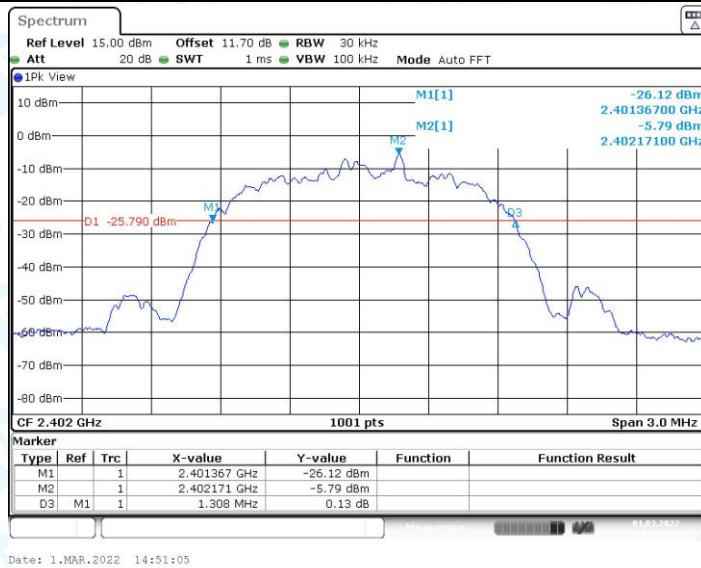
2DH5_Ant1_2402



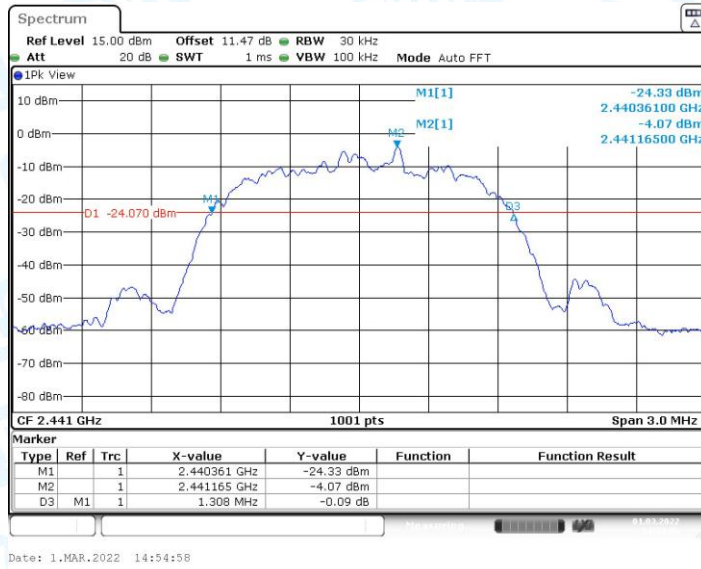
2DH5_Ant1_2441



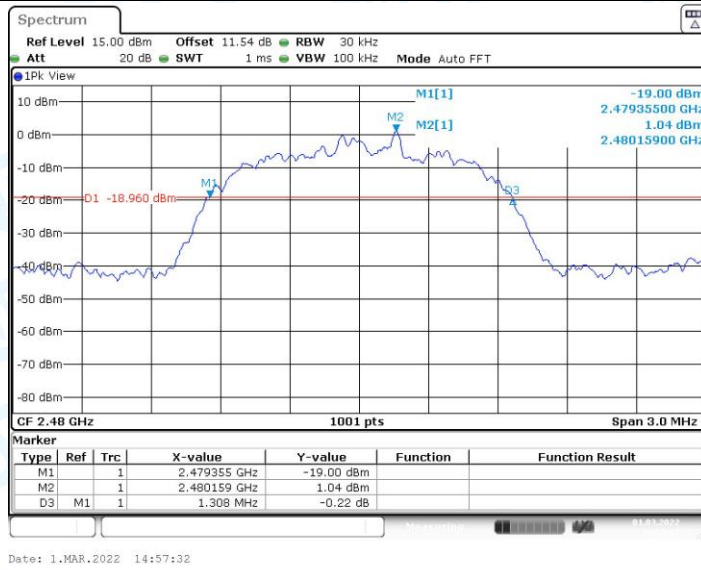
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

2. Occupied Channel Bandwidth

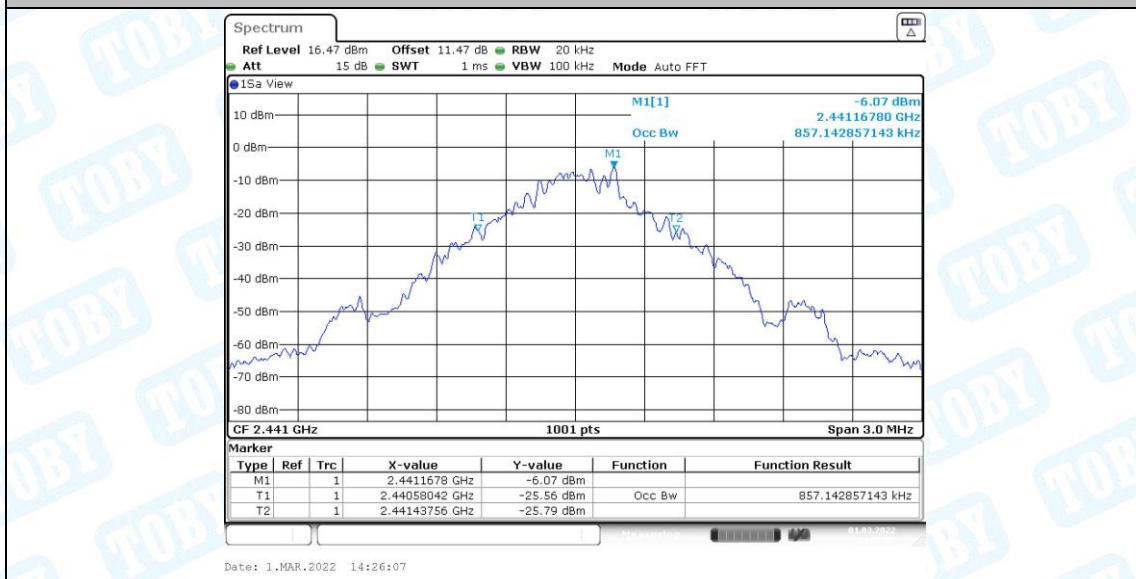
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.860	2401.586	2402.447	---	---
		2441	0.857	2440.580	2441.438	---	---
		2480	0.863	2479.571	2480.435	---	---
2DH5	Ant1	2402	1.196	2401.413	2402.608	---	---
		2441	1.196	2440.413	2441.608	---	---
		2480	1.202	2479.404	2480.605	---	---
3DH5	Ant1	2402	1.196	2401.413	2402.608	---	---
		2441	1.196	2440.407	2441.602	---	---
		2480	1.208	2479.392	2480.599	---	---

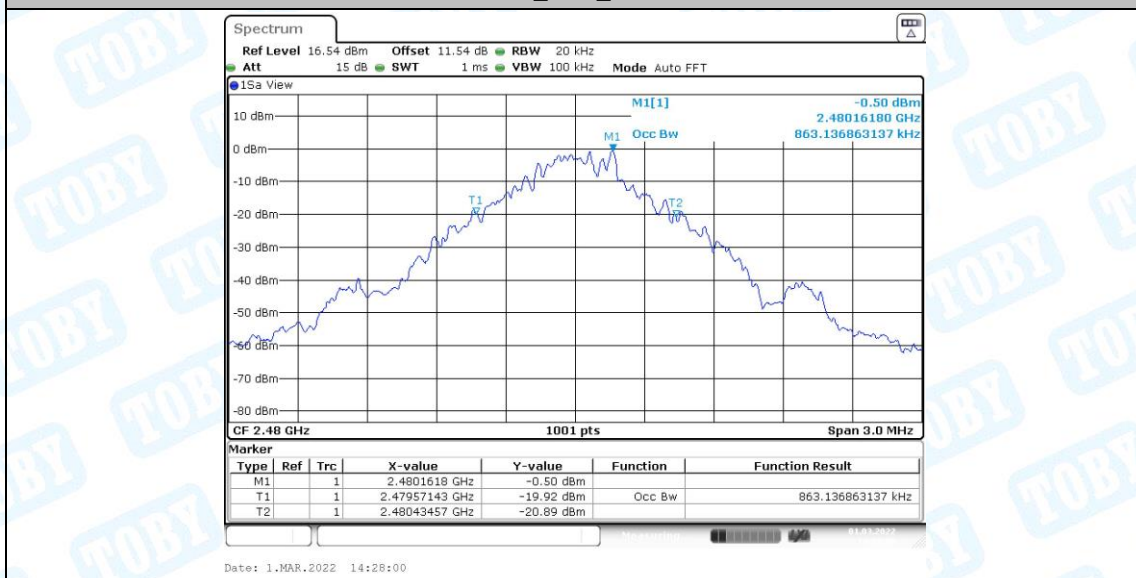
2.2. Test Graphs



DH5_Ant1_2402



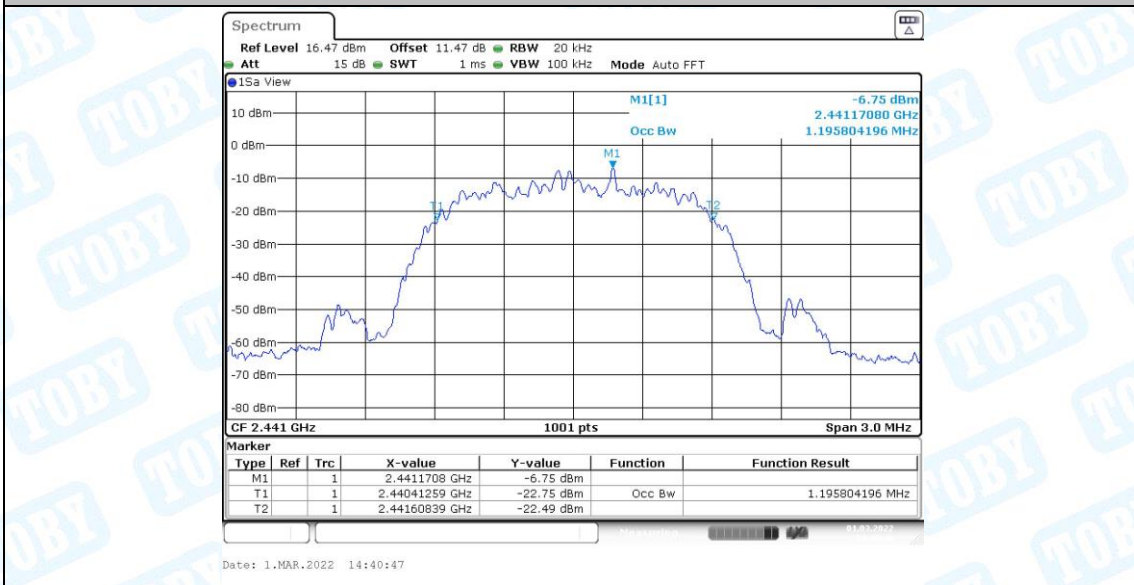
DH5_Ant1_2441



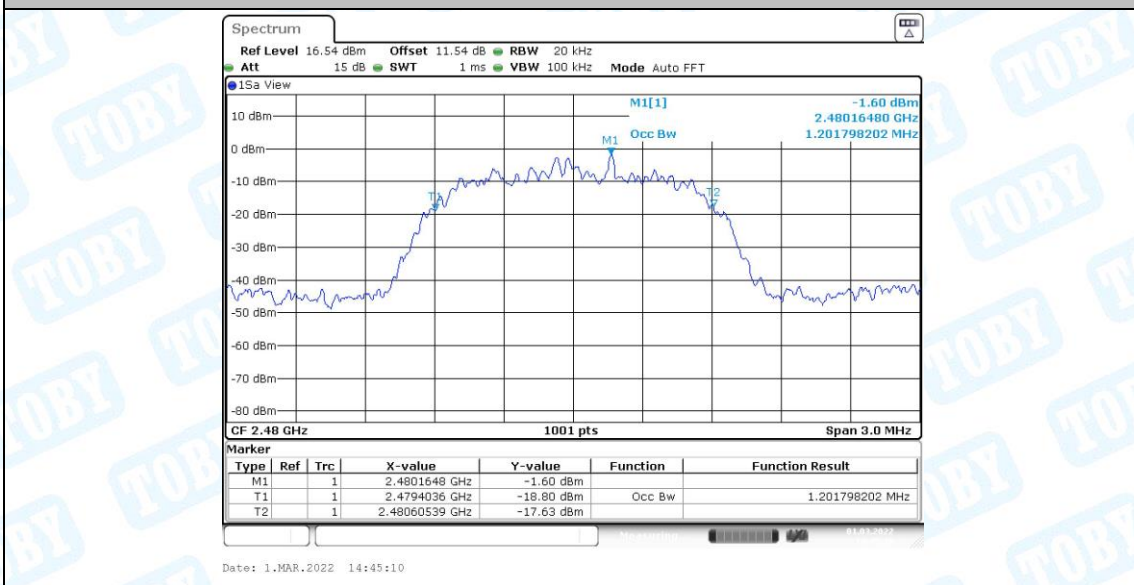
DH5_Ant1_2480



2DH5_Ant1_2402



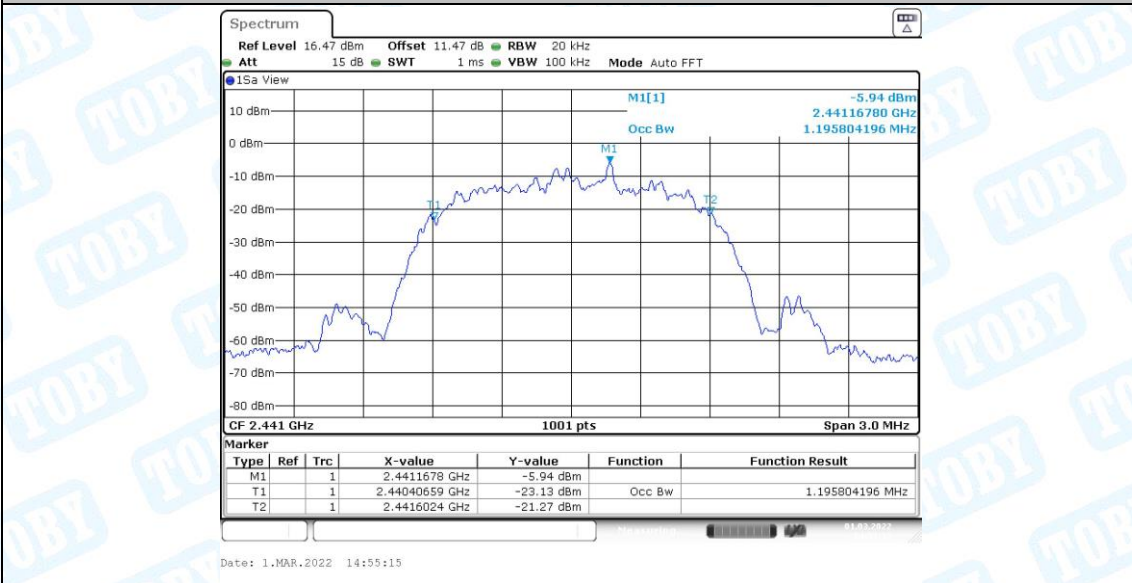
2DH5_Ant1_2441



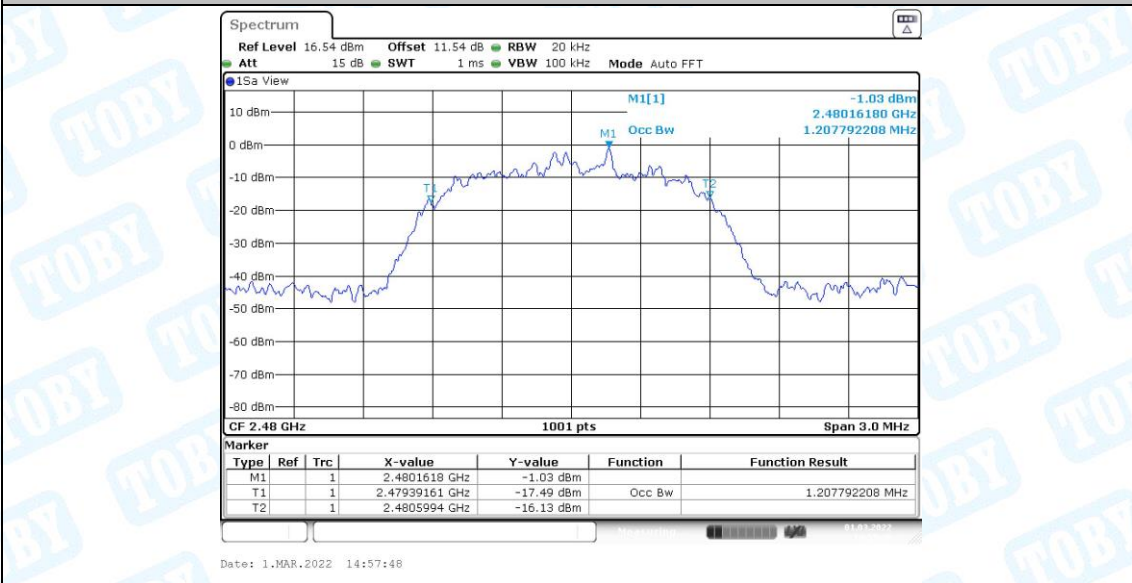
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



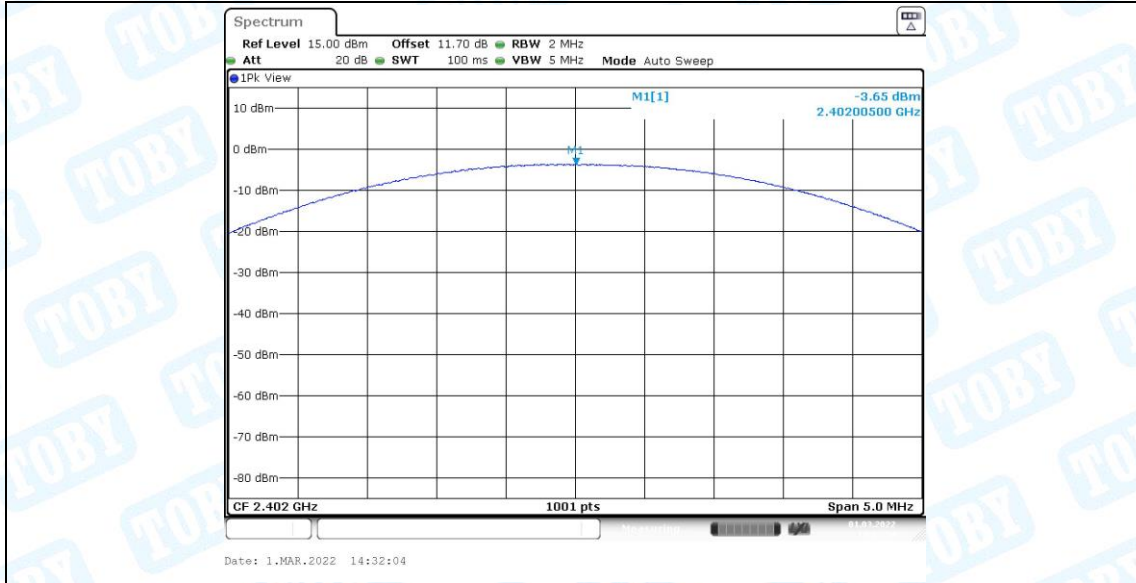
3DH5_Ant1_2480

3. Maximum conducted output power

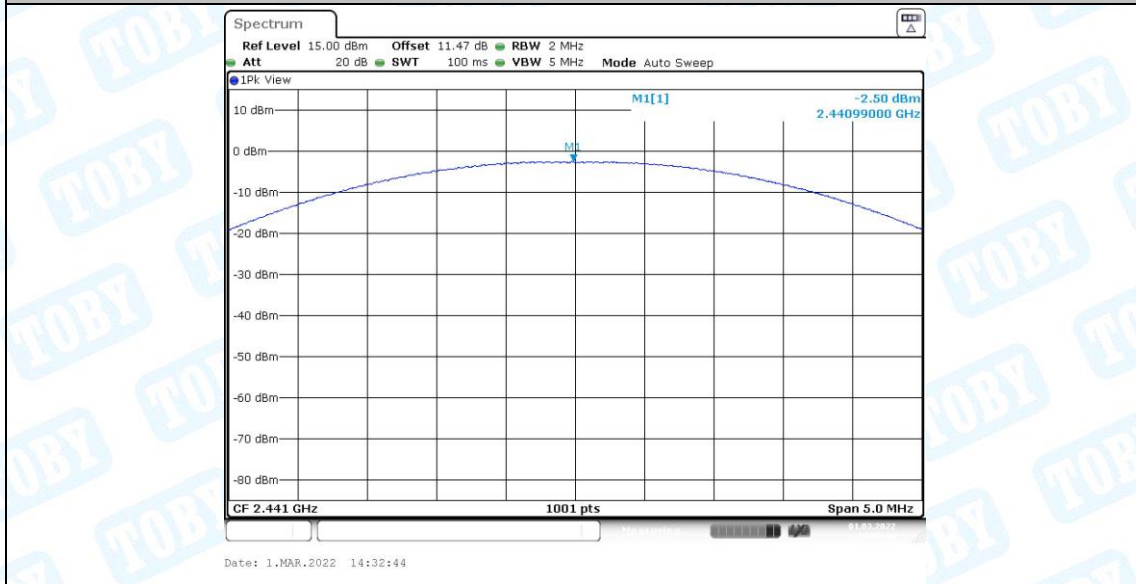
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.65	≤20.97	PASS
		2441	-2.50	≤20.97	PASS
		2480	2.96	≤20.97	PASS
2DH5	Ant1	2402	-1.23	≤20.97	PASS
		2441	-0.07	≤20.97	PASS
		2480	4.52	≤20.97	PASS
3DH5	Ant1	2402	-1.17	≤20.97	PASS
		2441	0.45	≤20.97	PASS
		2480	4.77	≤20.97	PASS

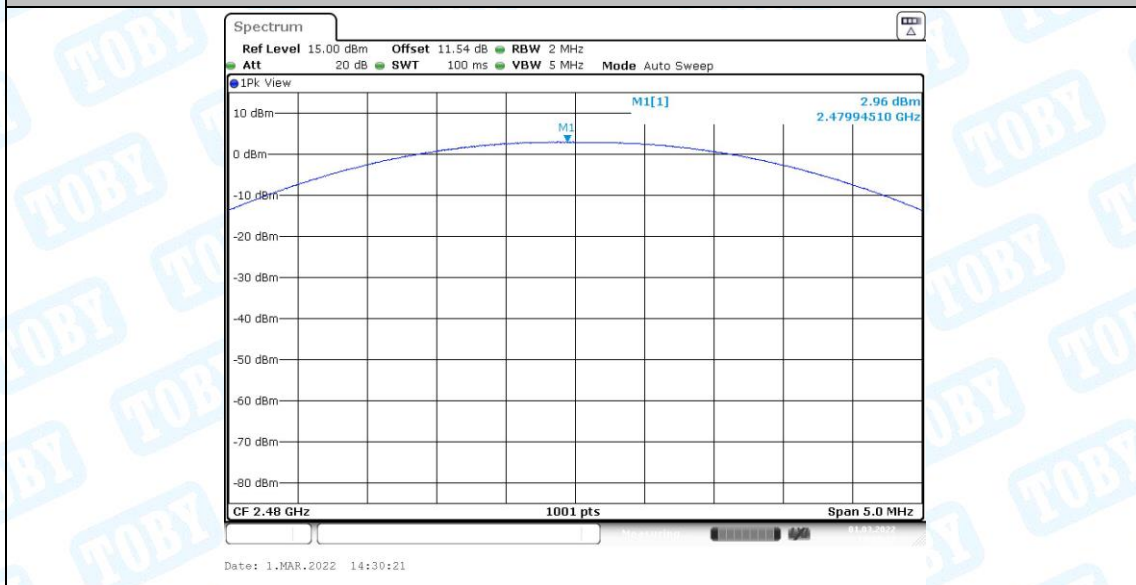
3.2. Test Graphs



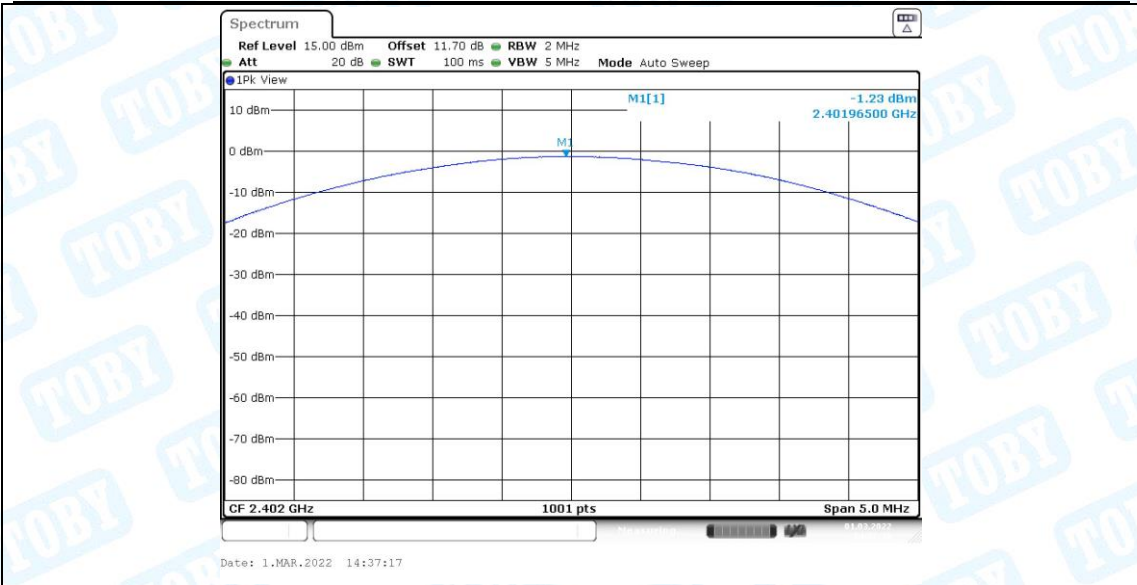
DH5_Ant1_2402



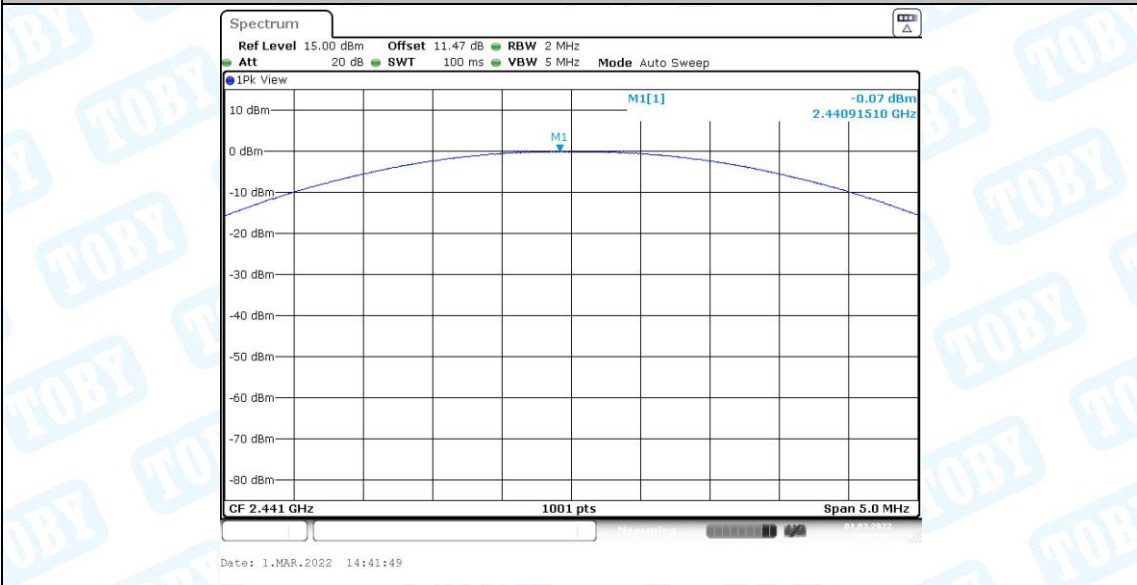
DH5_Ant1_2441



DH5_Ant1_2480



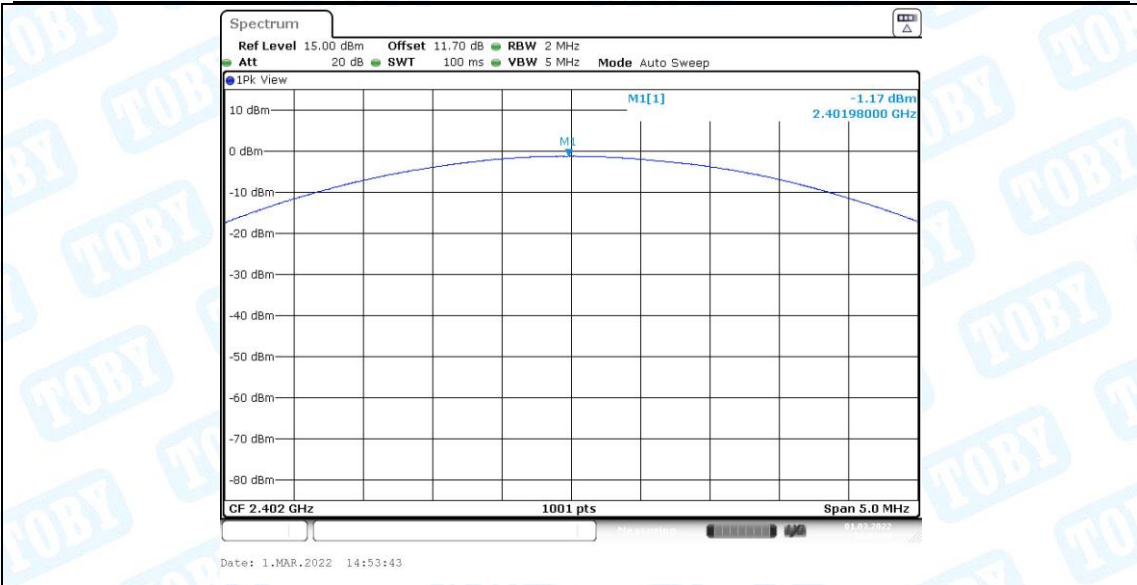
2DH5_Ant1_2402



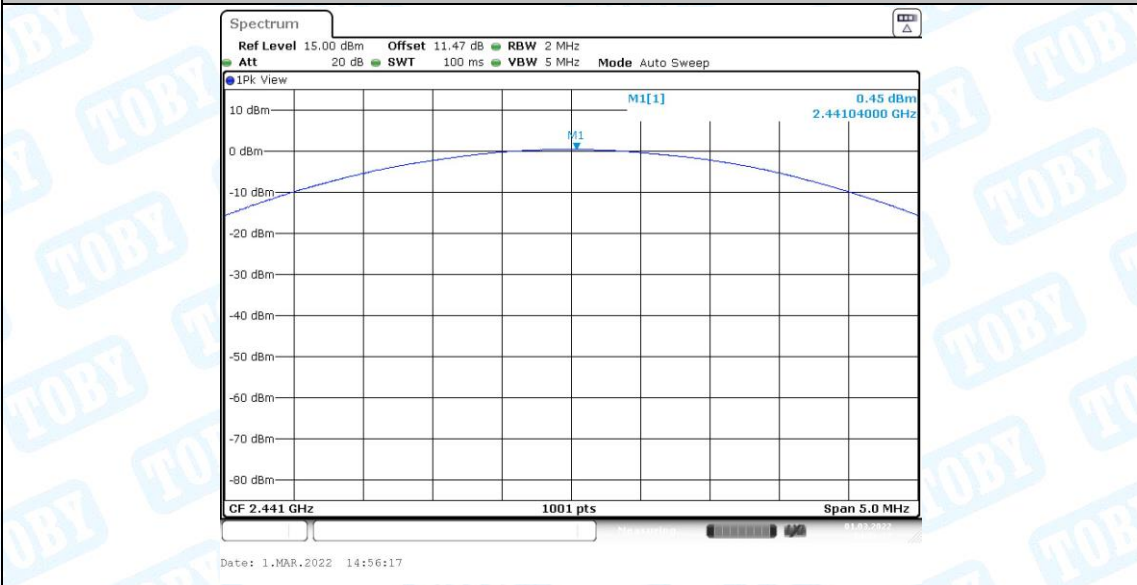
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



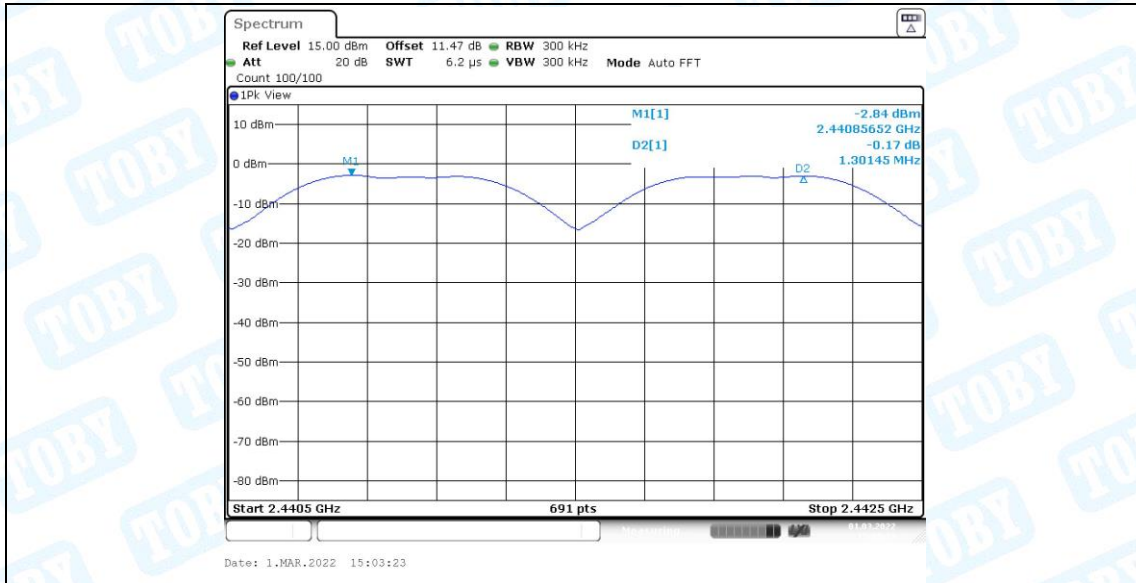
3DH5_Ant1_2480

4. Carrier frequency separation

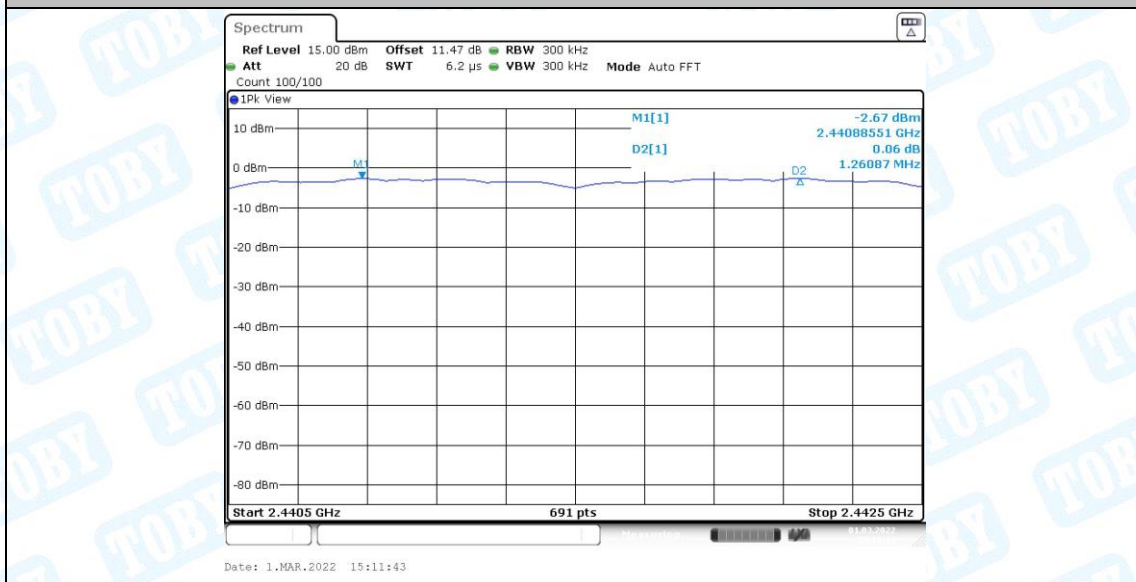
4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.301	≥0.940	PASS
2DH5	Ant1	Hop	1.261	≥0.907	PASS
3DH5	Ant1	Hop	1.038	≥0.873	PASS

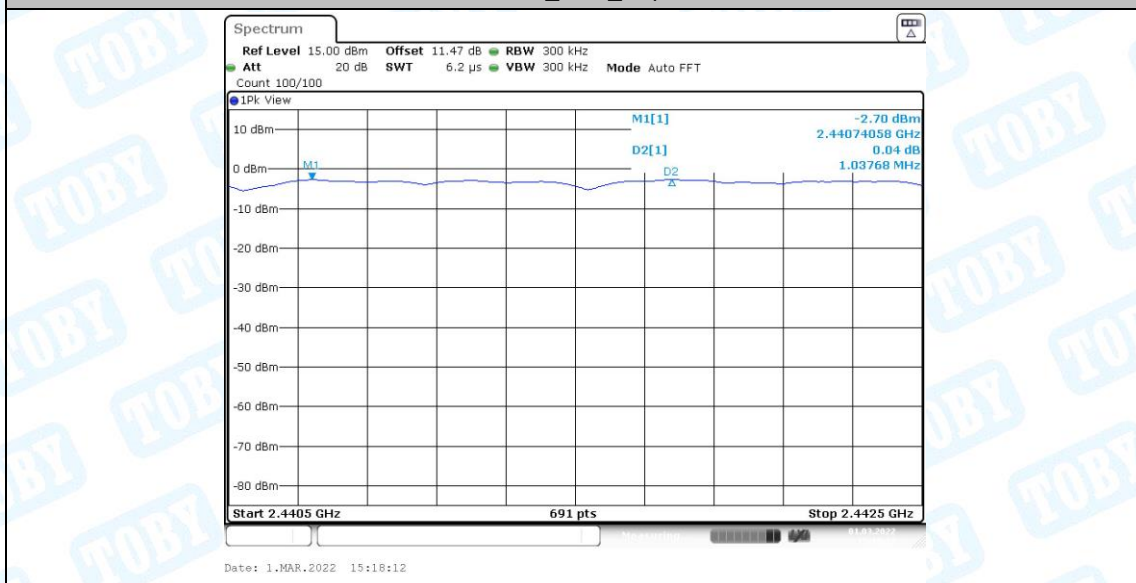
4.2. Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



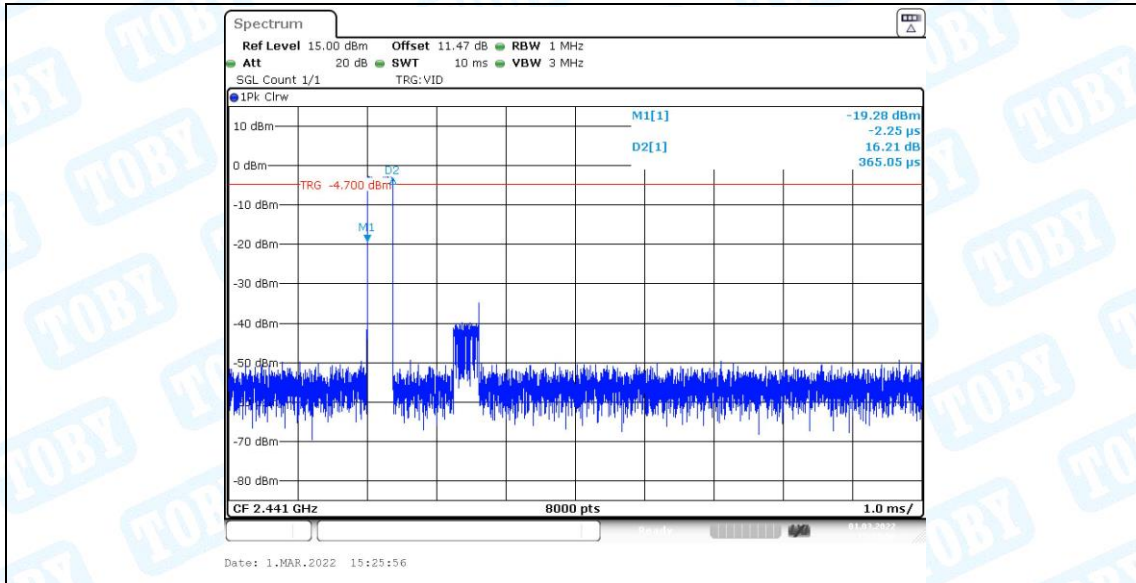
3DH5_Ant1_Hop

5. Time of occupancy

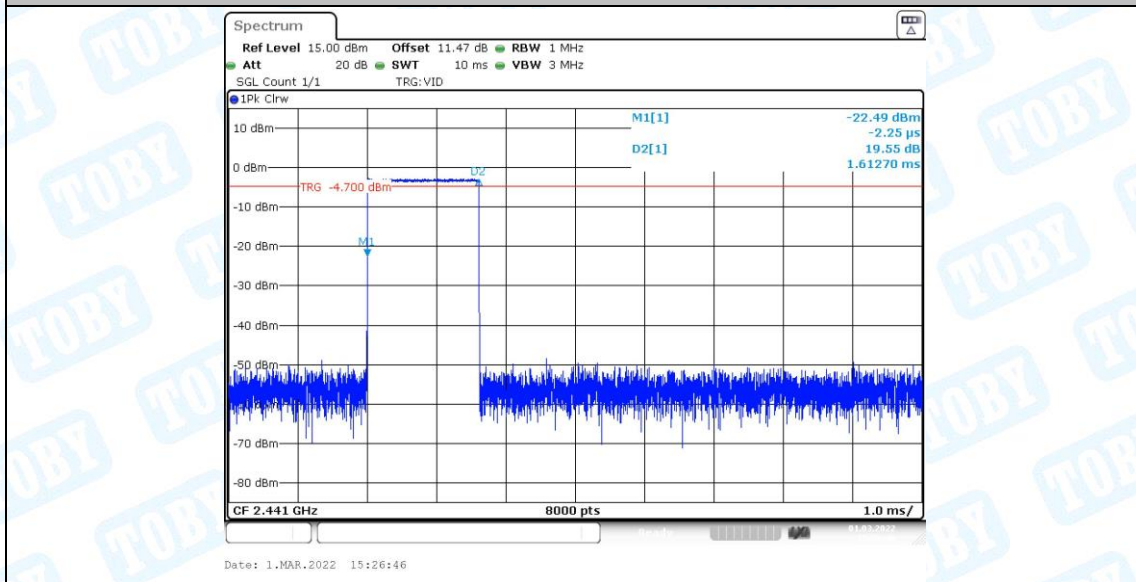
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.61	160	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.85	106.67	0.304	≤0.4	PASS
2DH1	Ant1	Hop	0.37	320	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.62	160	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.86	106.67	0.305	≤0.4	PASS
3DH1	Ant1	Hop	0.37	320	0.118	≤0.4	PASS
3DH3	Ant1	Hop	1.61	160	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.86	106.67	0.305	≤0.4	PASS

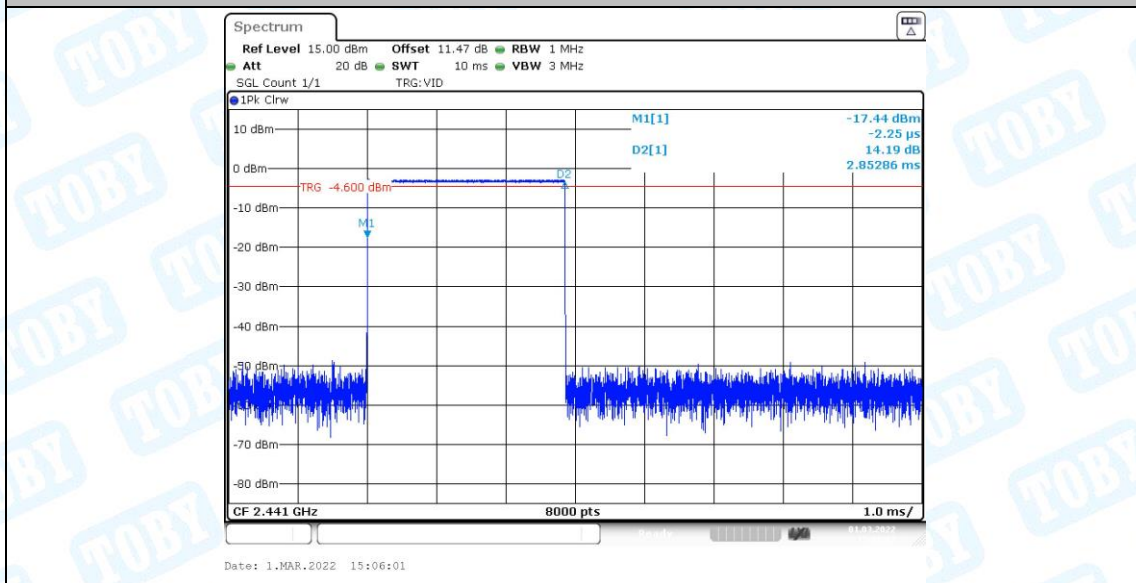
5.2. Test Graphs



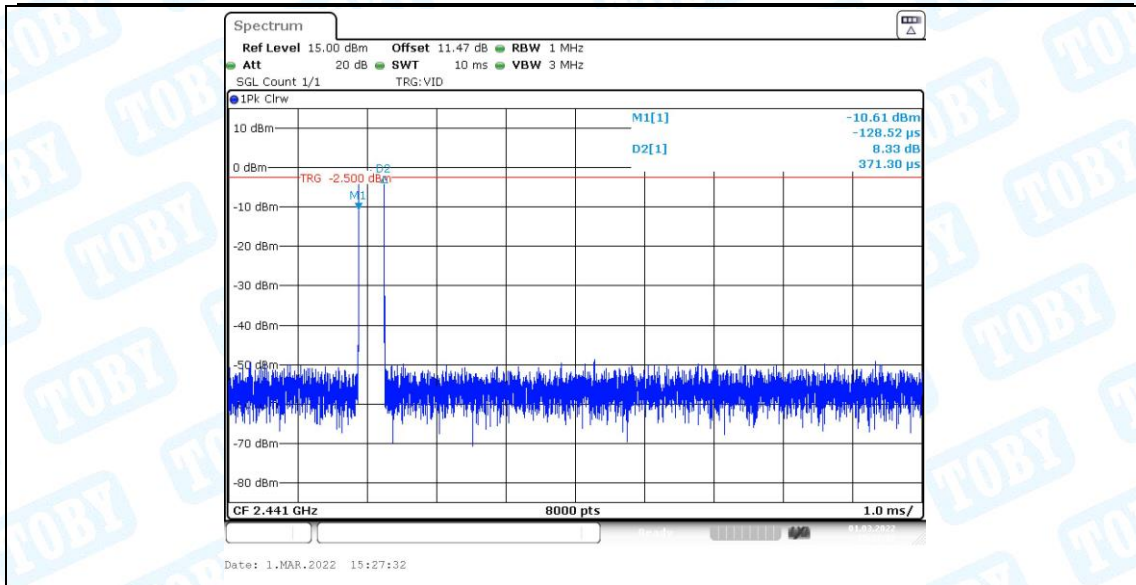
DH1_Ant1_Hop



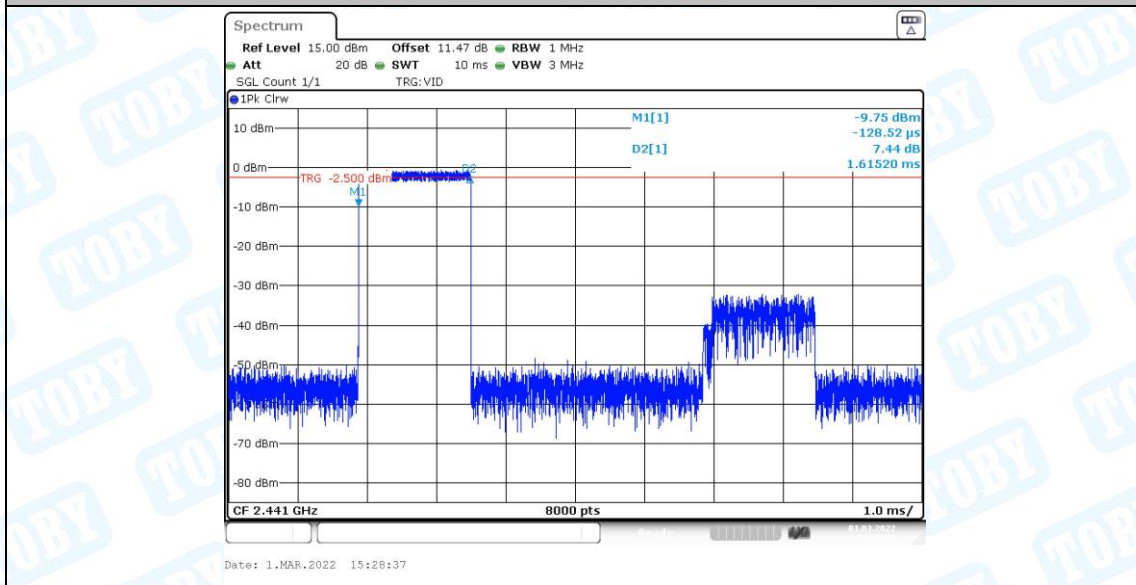
DH3_Ant1_Hop



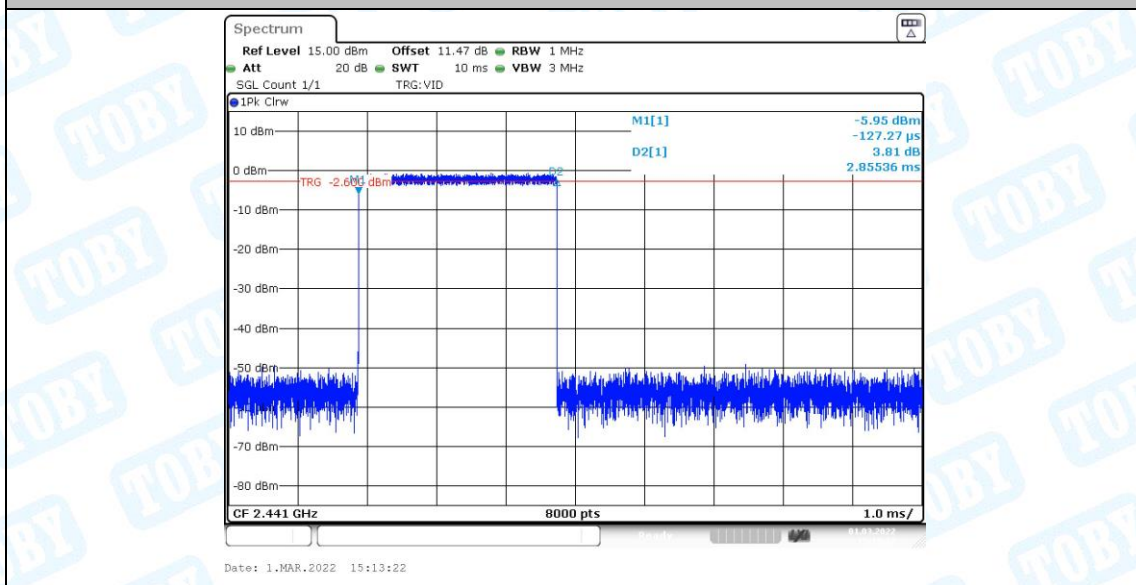
DH5_Ant1_Hop



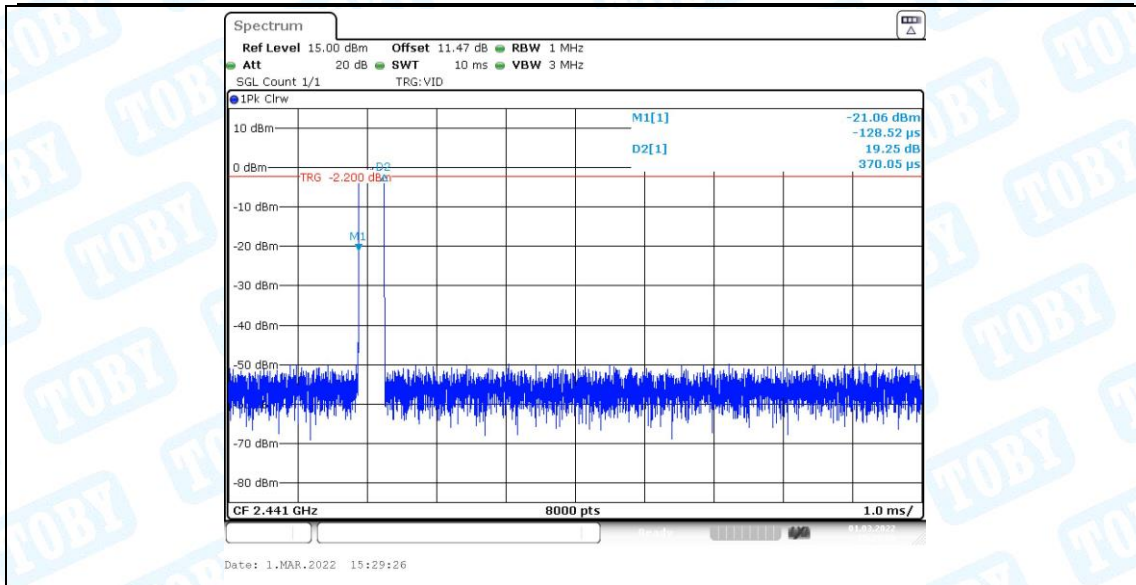
2DH1_Ant1_Hop



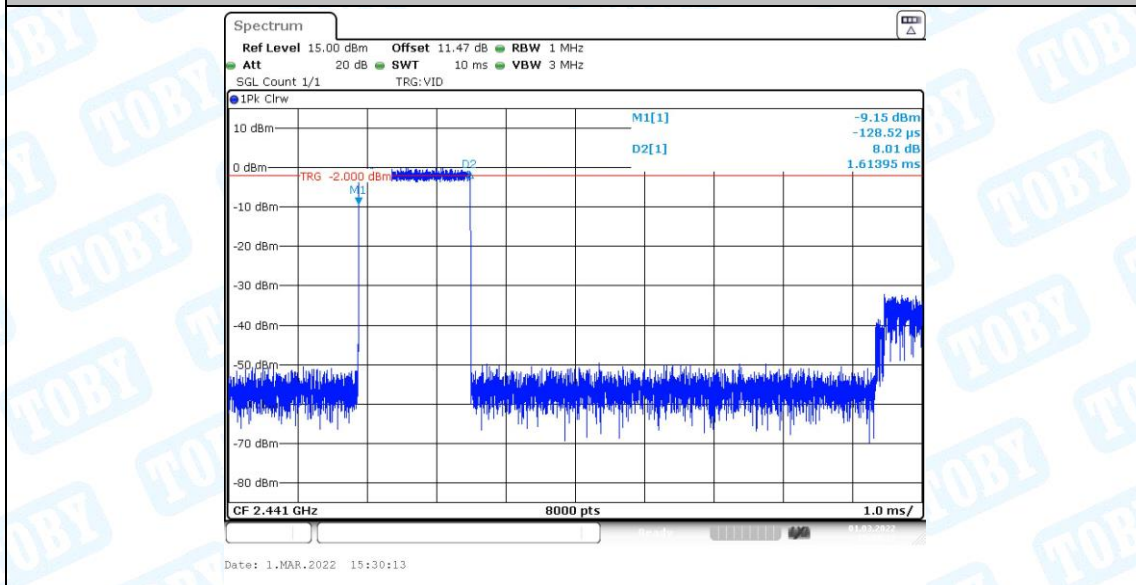
2DH3_Ant1_Hop



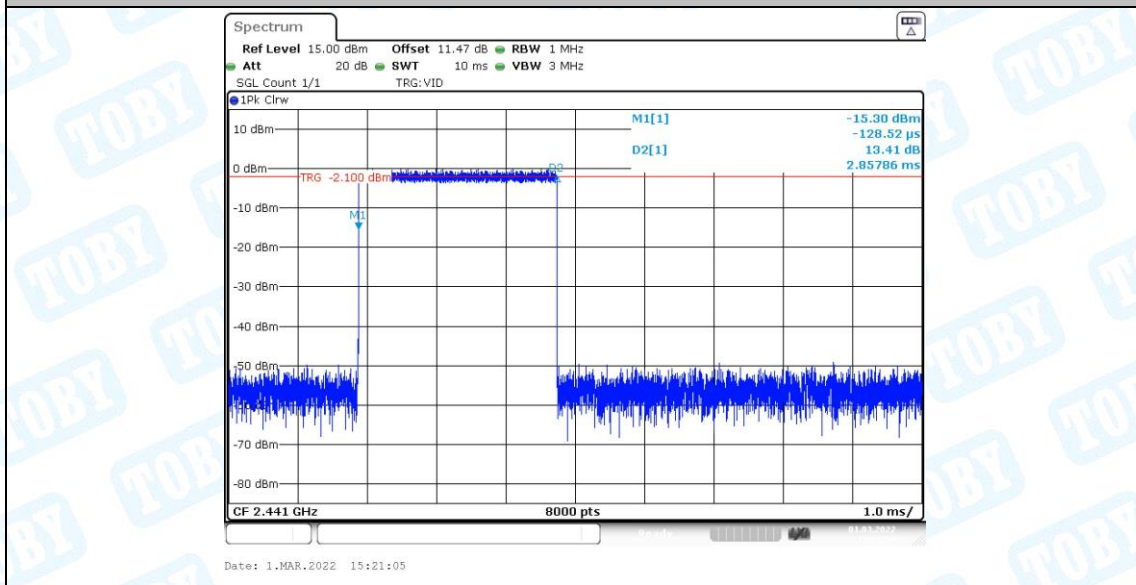
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



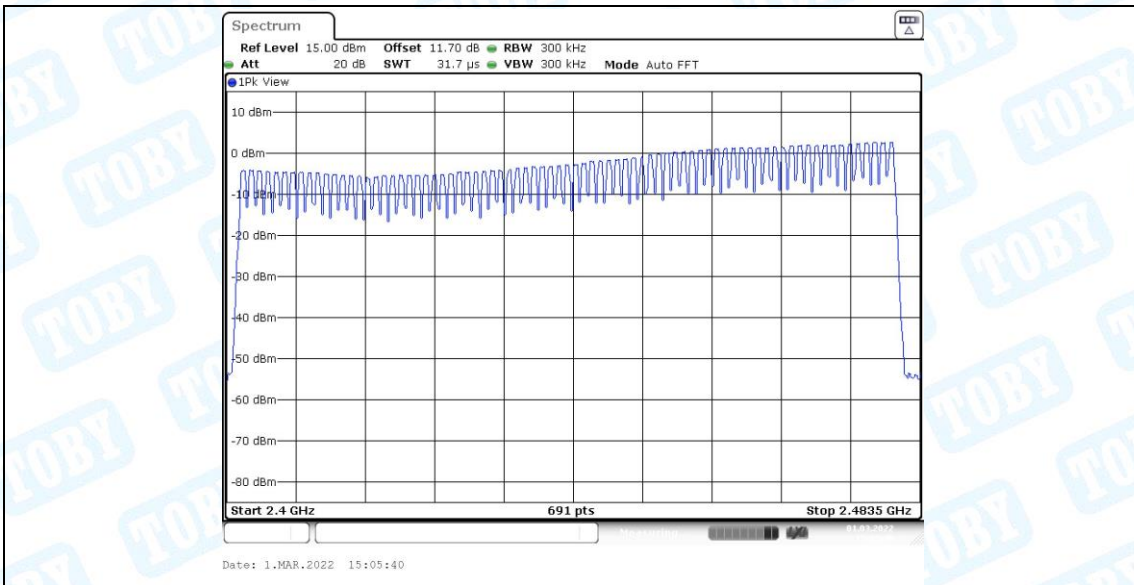
3DH5_Ant1_Hop

6. Number of hopping channels

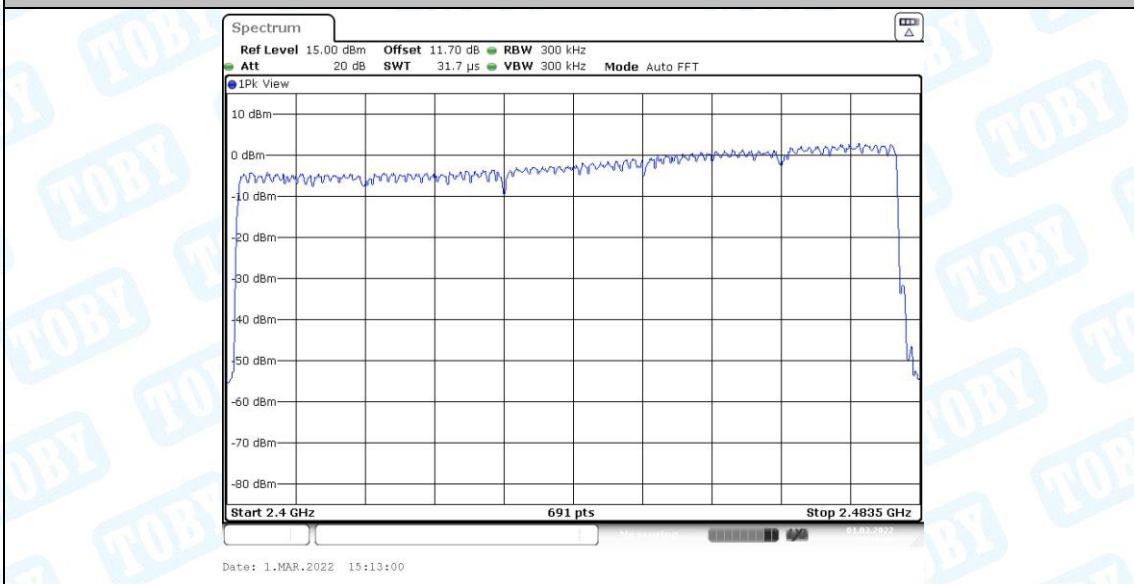
6.1. Test Result

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

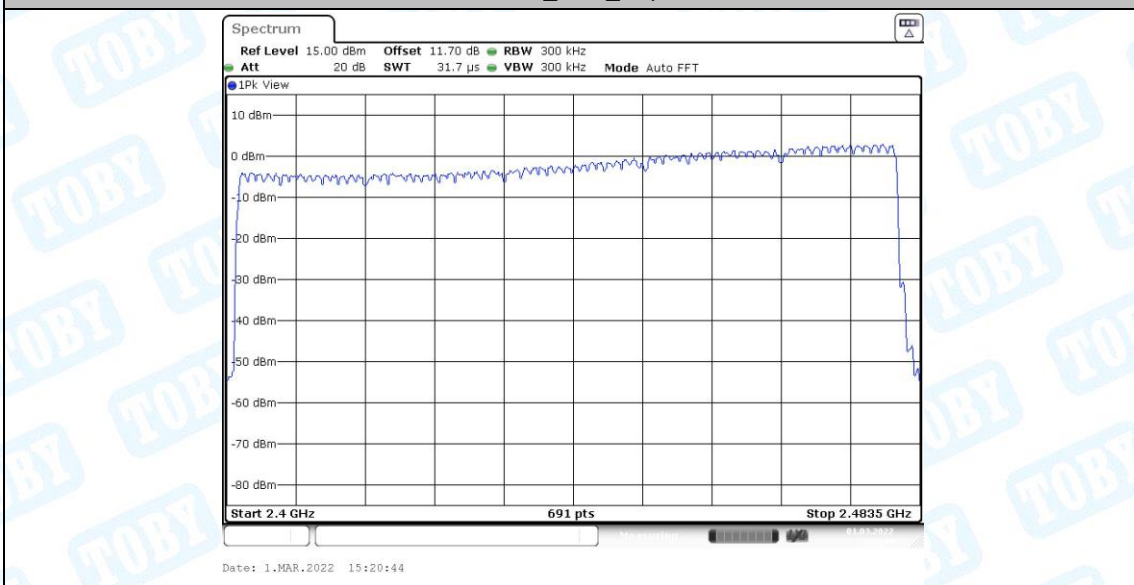
6.2.Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop