

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

General Description of EUT	
<b>Product Name:</b>	Wi-Fi BT Module
<b>Test Model:</b>	CDW-N37663U-02
<b>Sample ID:</b>	HC-C-202403-0360-02-01
Environmental Conditions	
<b>Temperature:</b>	23.6°C
<b>Relative Humidity:</b>	48%
<b>Test Voltage:</b>	DC 3.3V
<b>Test Engineer:</b>	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202403-0360-71.	

## Contents

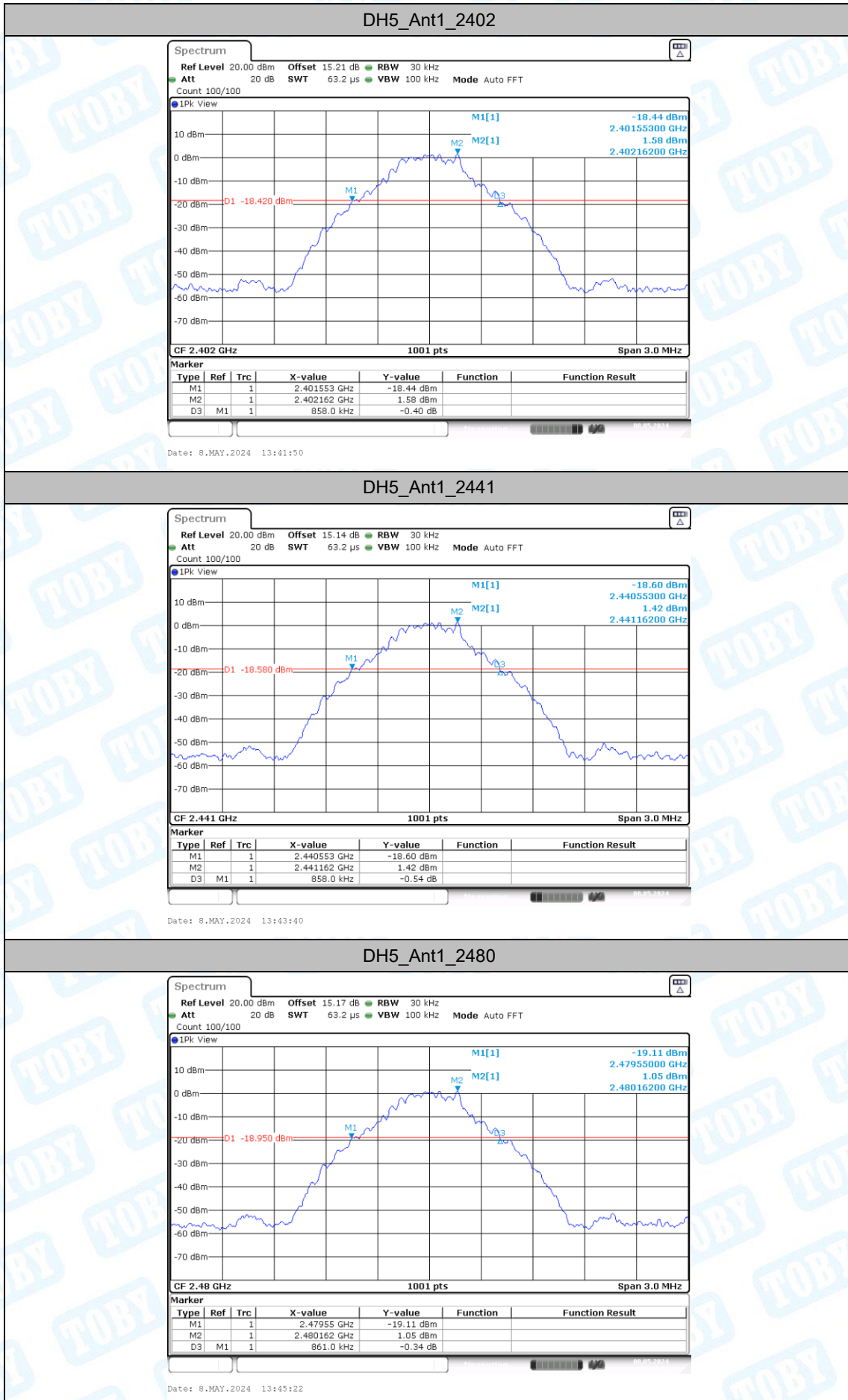
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## 1. 20dB Emission Bandwidth

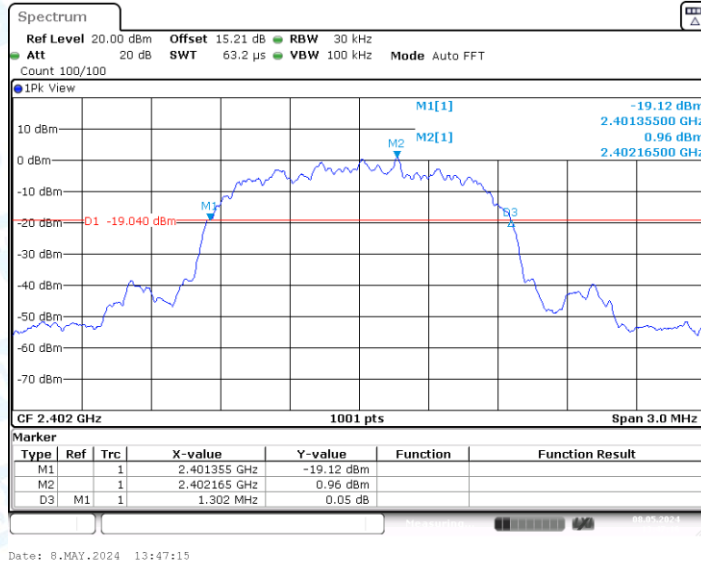
### 1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	---	---
		2441	0.86	---	---
		2480	0.86	---	---
2DH5	Ant1	2402	1.30	---	---
		2441	1.32	---	---
		2480	1.32	---	---
3DH5	Ant1	2402	1.30	---	---
		2441	1.30	---	---
		2480	1.30	---	---

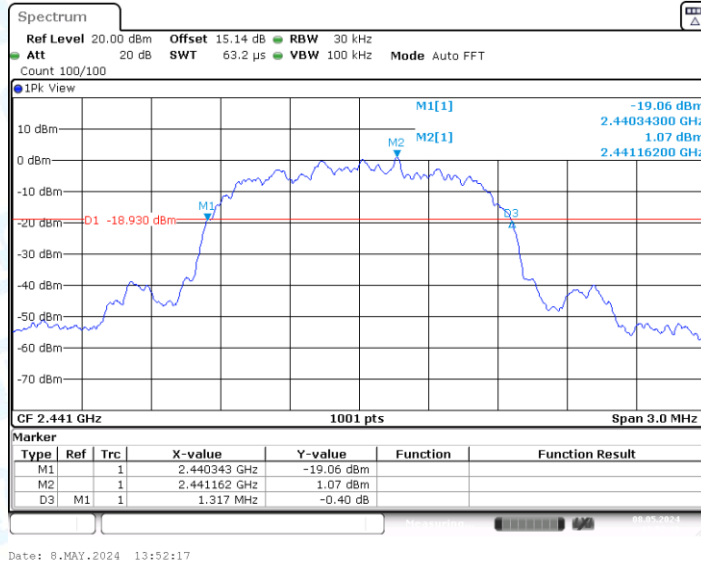
## 1.2. Test Graphs



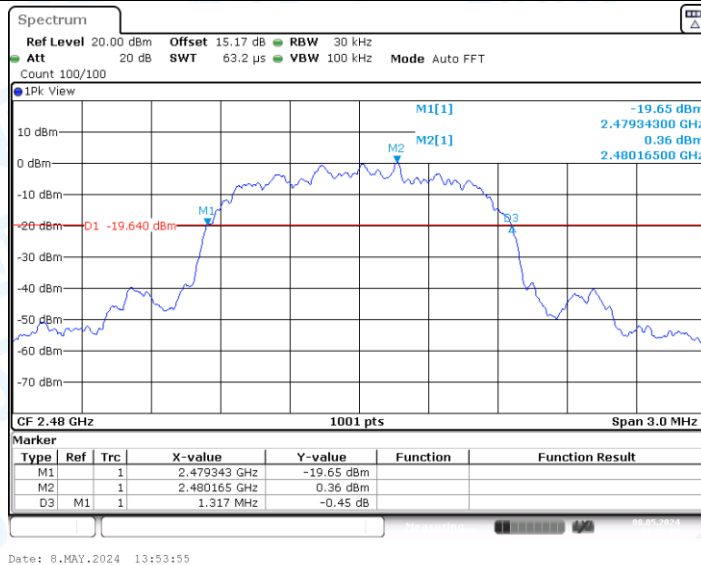
2DH5\_Ant1\_2402



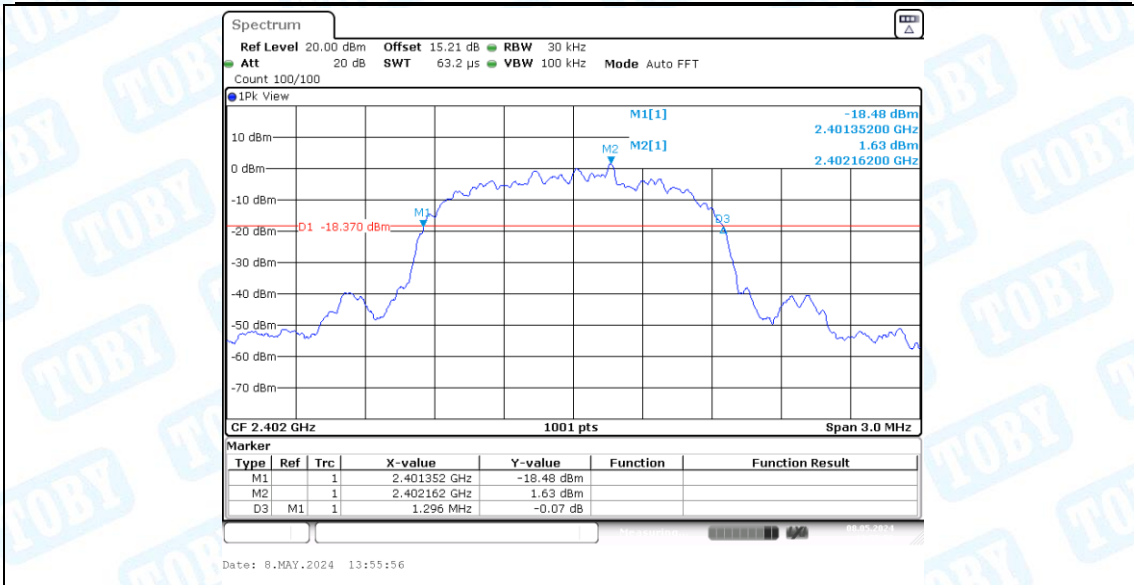
2DH5\_Ant1\_2441



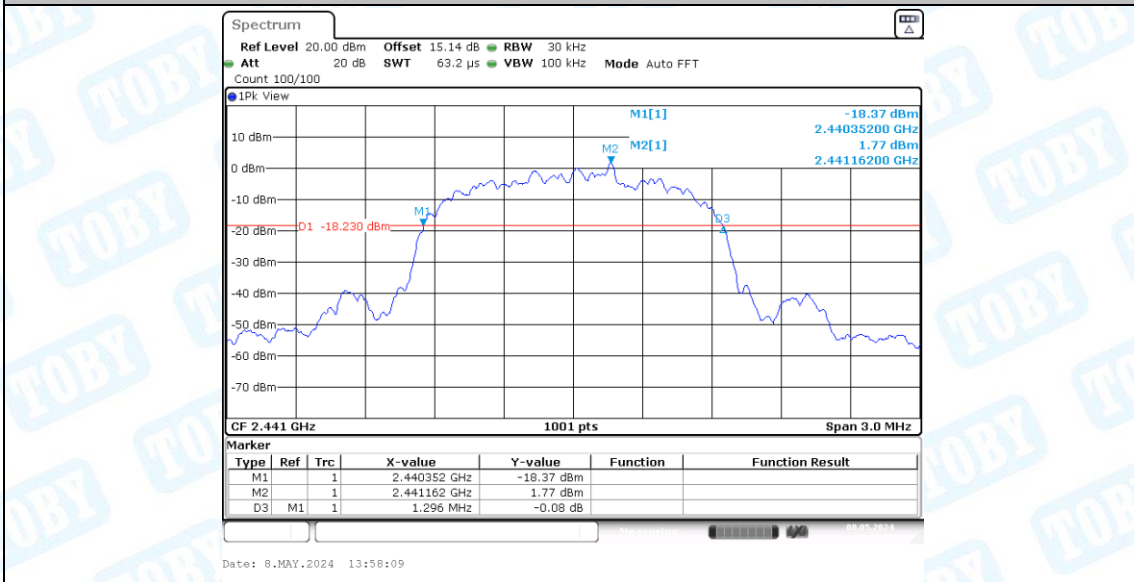
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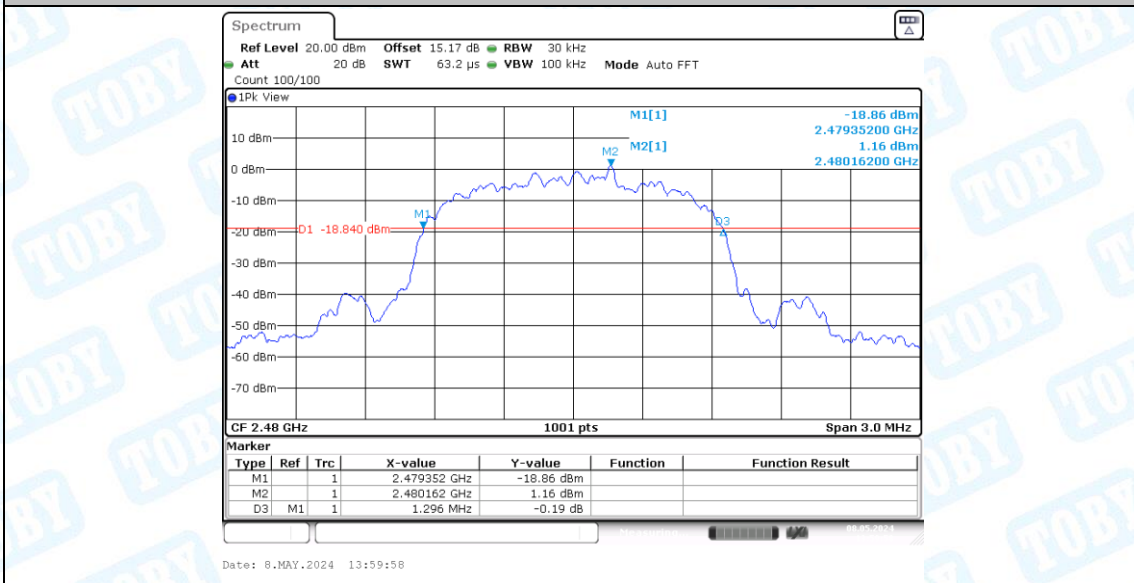
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## 2. Occupied Channel Bandwidth

### 2.1. Test Result

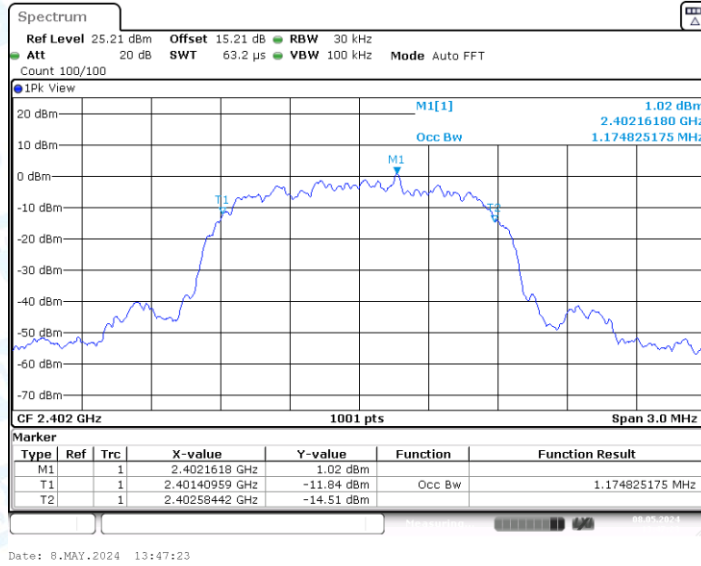
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.755	2401.6254	2402.3806	---	---
		2441	0.755	2440.6254	2441.3806	---	---
		2480	0.752	2479.6254	2480.3776	---	---
2DH5	Ant1	2402	1.175	2401.4096	2402.5844	---	---
		2441	1.175	2440.4096	2441.5844	---	---
		2480	1.175	2479.4096	2480.5844	---	---
3DH5	Ant1	2402	1.178	2401.4126	2402.5904	---	---
		2441	1.178	2440.4126	2441.5904	---	---
		2480	1.178	2479.4126	2480.5904	---	---

## 2.2. Test Graphs

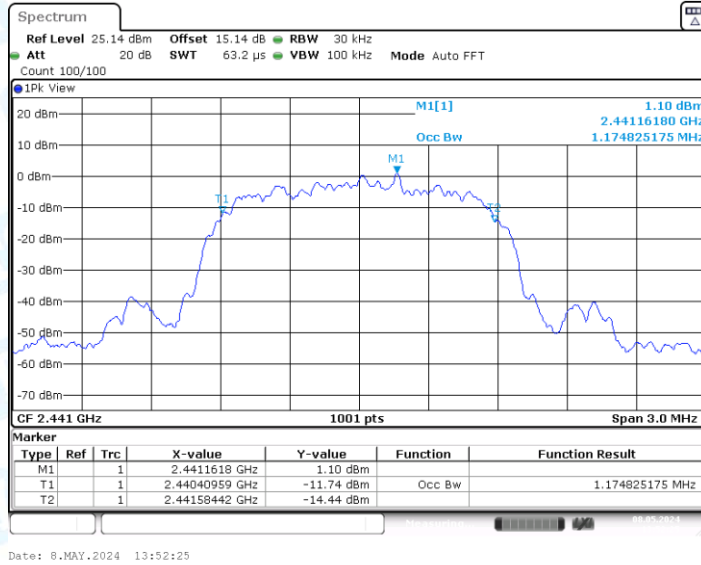




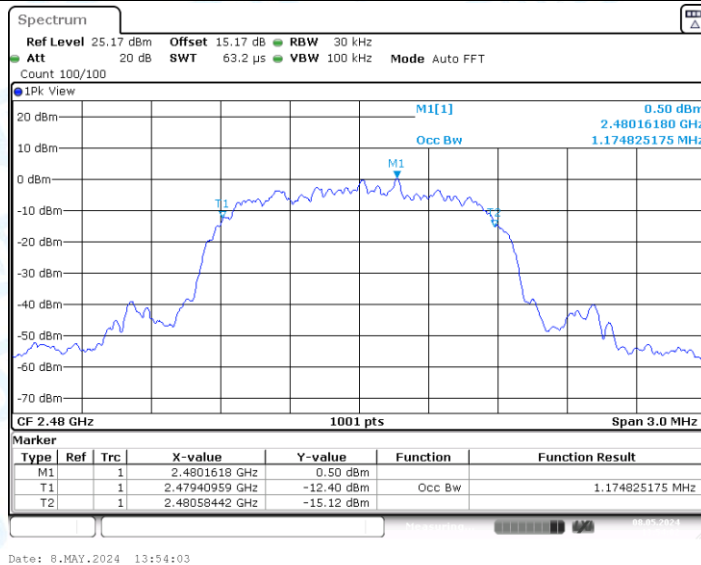
2DH5\_Ant1\_2402



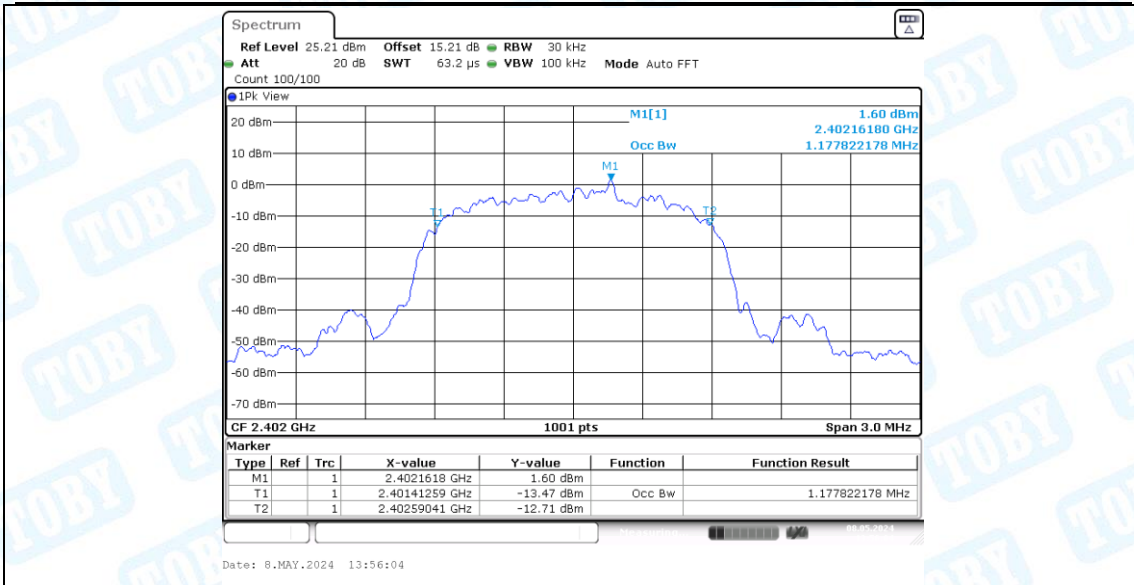
2DH5\_Ant1\_2441



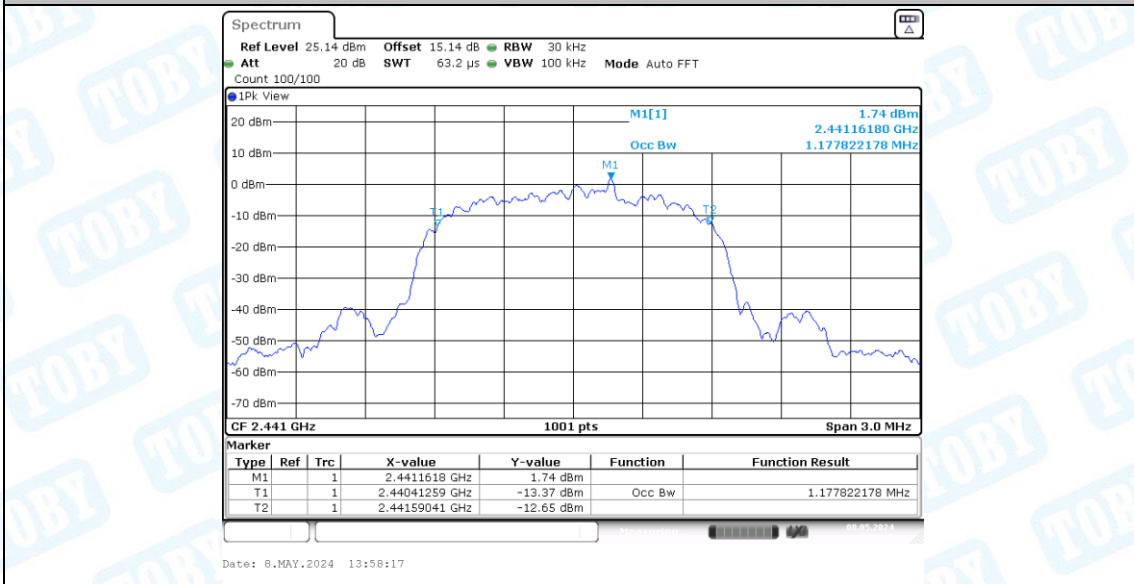
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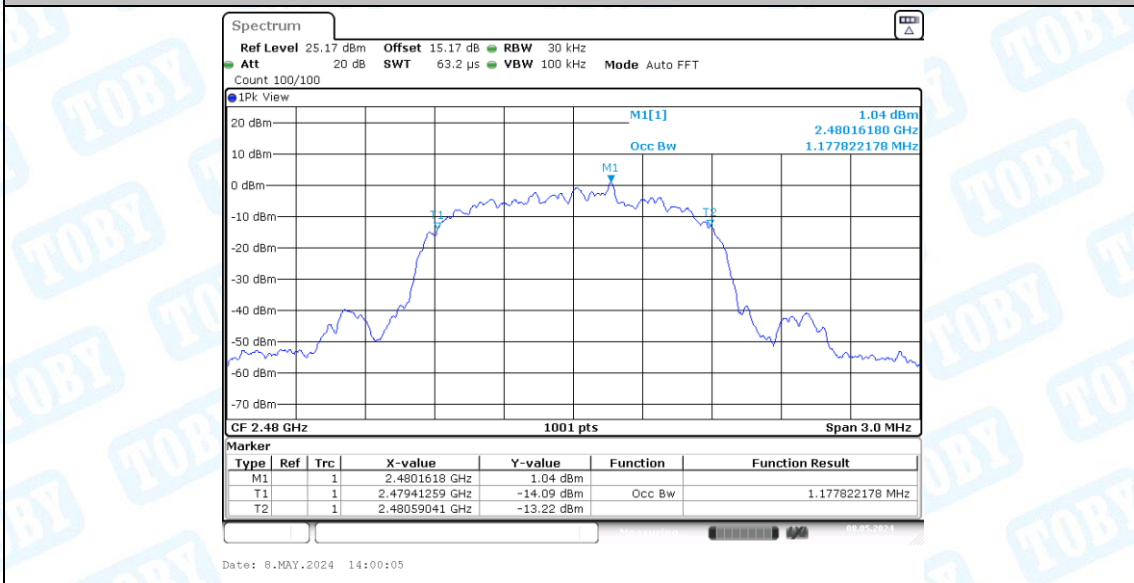
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



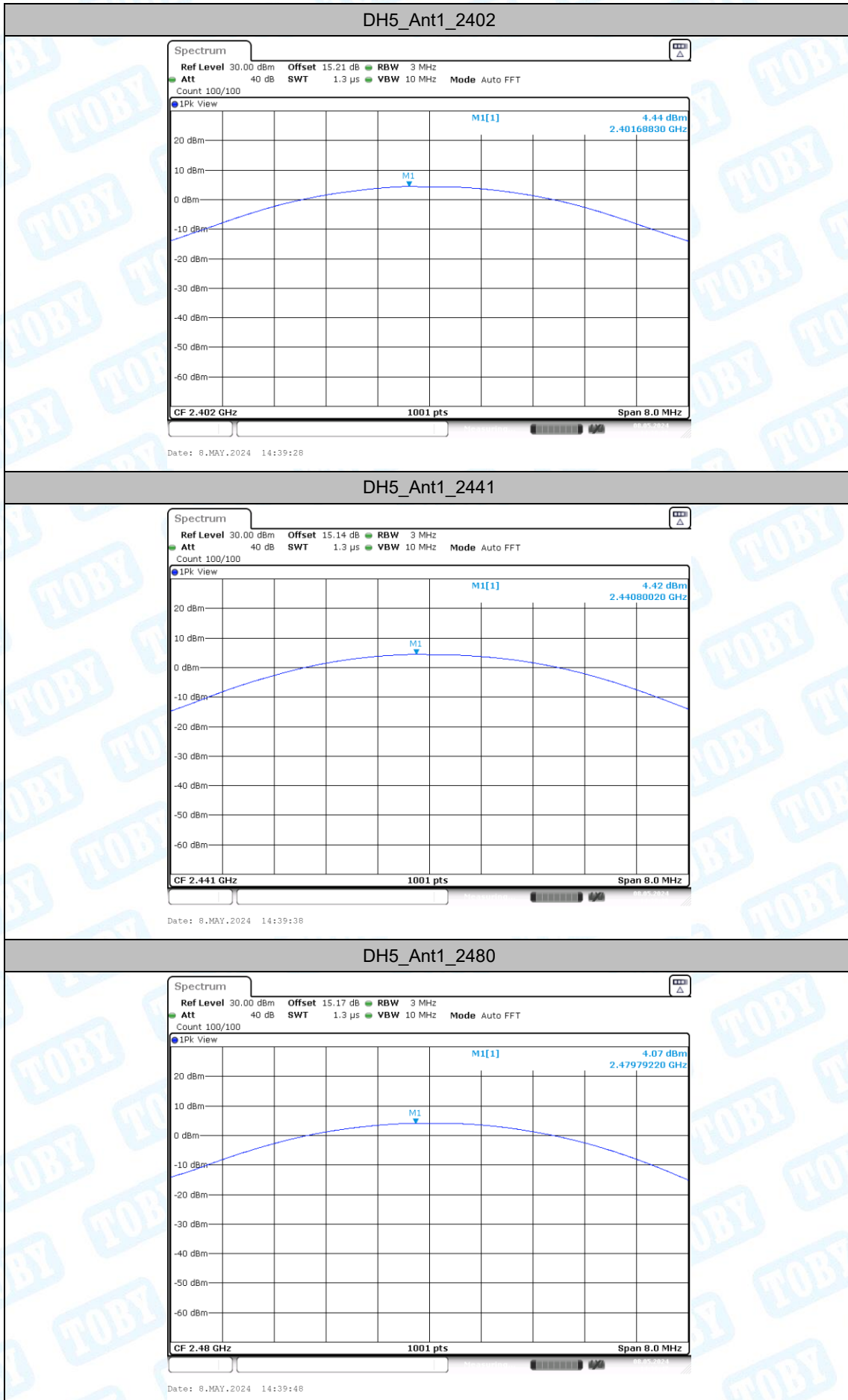
### 3. Maximum Peak conducted output power

#### 3.1. Test Result

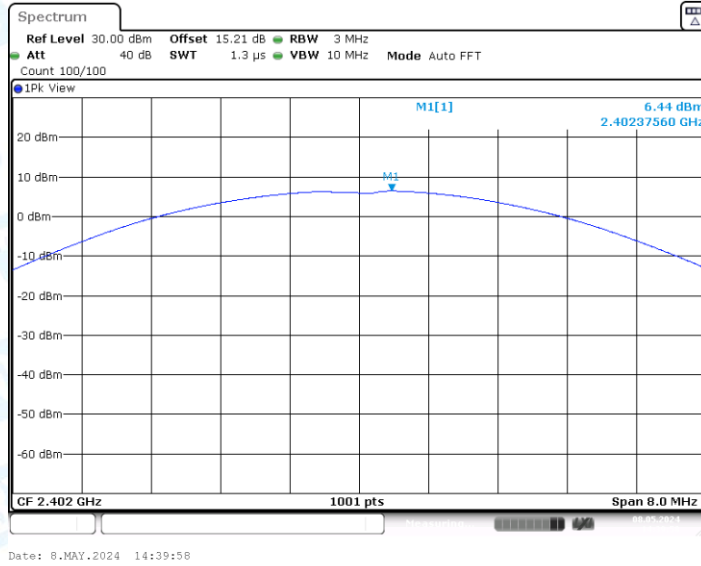
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Gain [dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
DH5	Ant1	2402	4.44	≤21	4.70	9.14	≤36	PASS
		2441	4.42	≤21	4.70	9.12	≤36	PASS
		2480	4.07	≤21	4.70	8.77	≤36	PASS
2DH5	Ant1	2402	6.44	≤21	4.70	11.14	≤36	PASS
		2441	6.57	≤21	4.70	11.27	≤36	PASS
		2480	6.07	≤21	4.70	10.77	≤36	PASS
3DH5	Ant1	2402	7.28	≤21	4.70	11.98	≤36	PASS
		2441	6.95	≤21	4.70	11.65	≤36	PASS
		2480	6.34	≤21	4.70	11.04	≤36	PASS

Note: This module will use two different BT antennas, and only the one with the larger antenna gain(4.70dBi) will be used for conducted test.

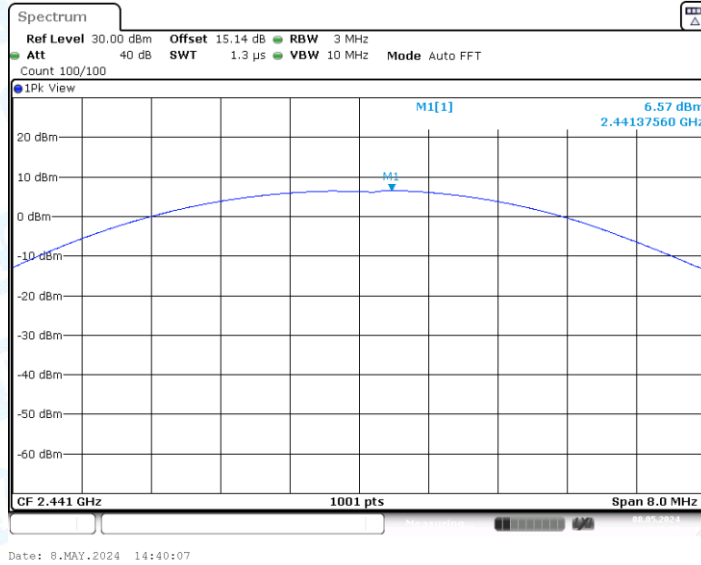
### 3.2. Test Graphs



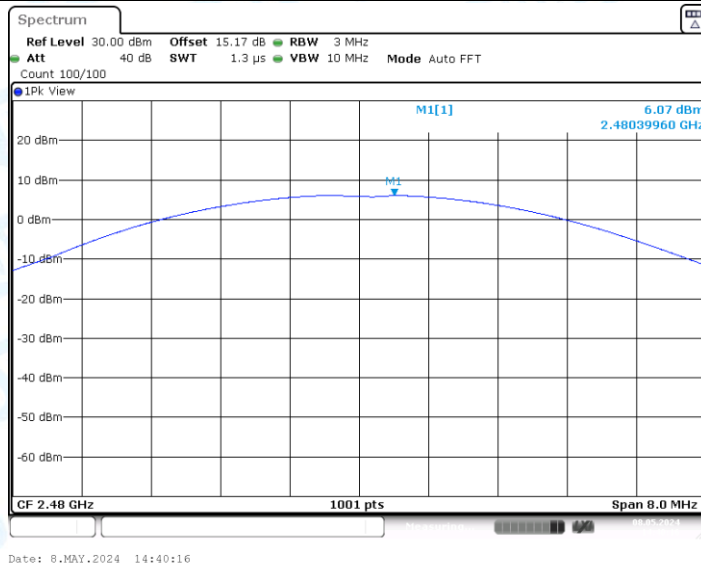
2DH5\_Ant1\_2402



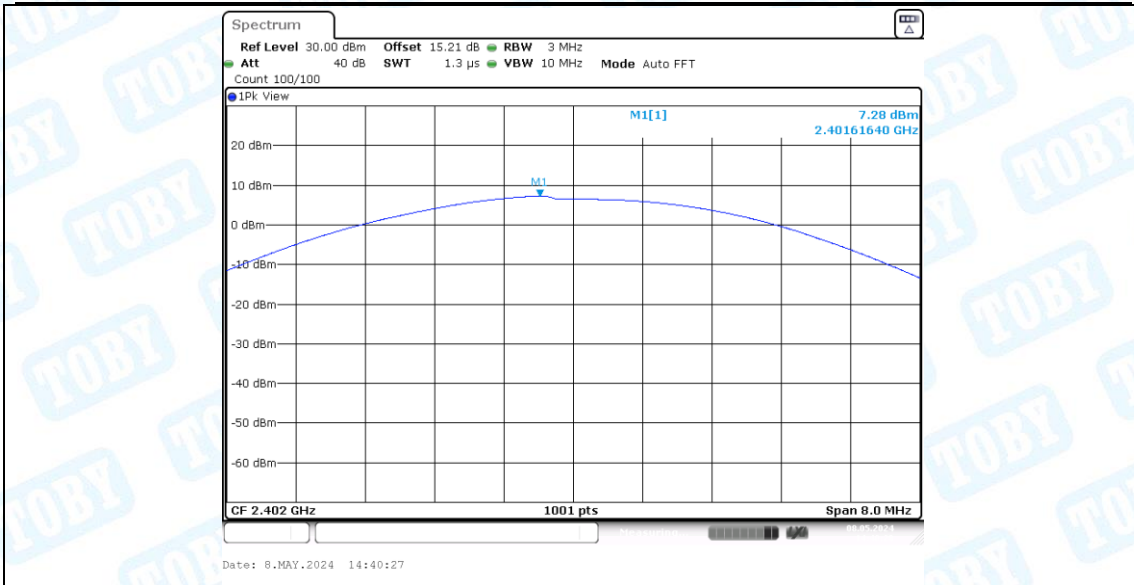
2DH5\_Ant1\_2441



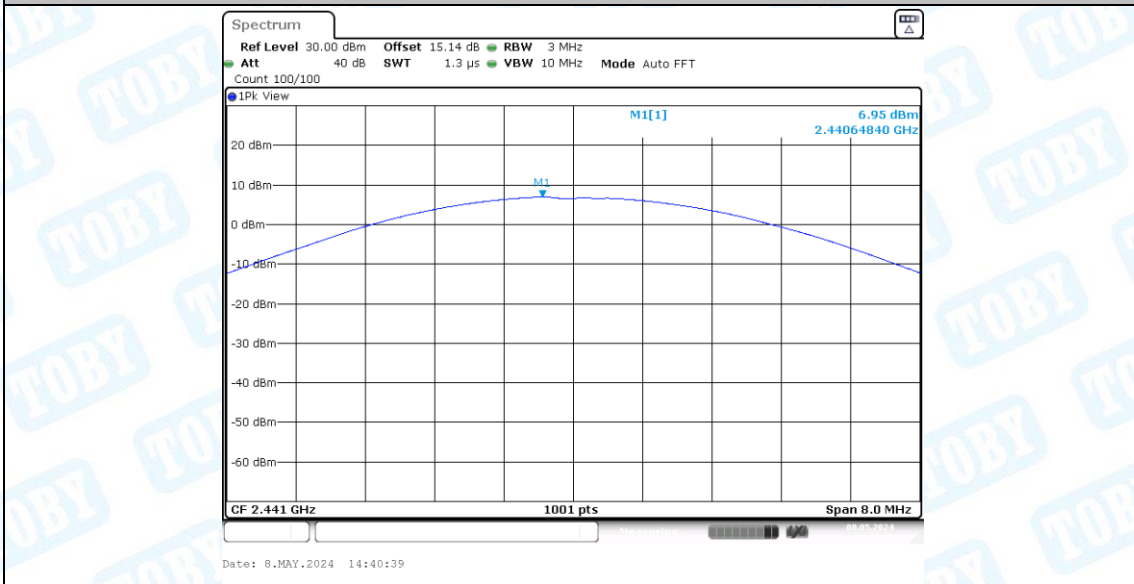
2DH5\_Ant1\_2480



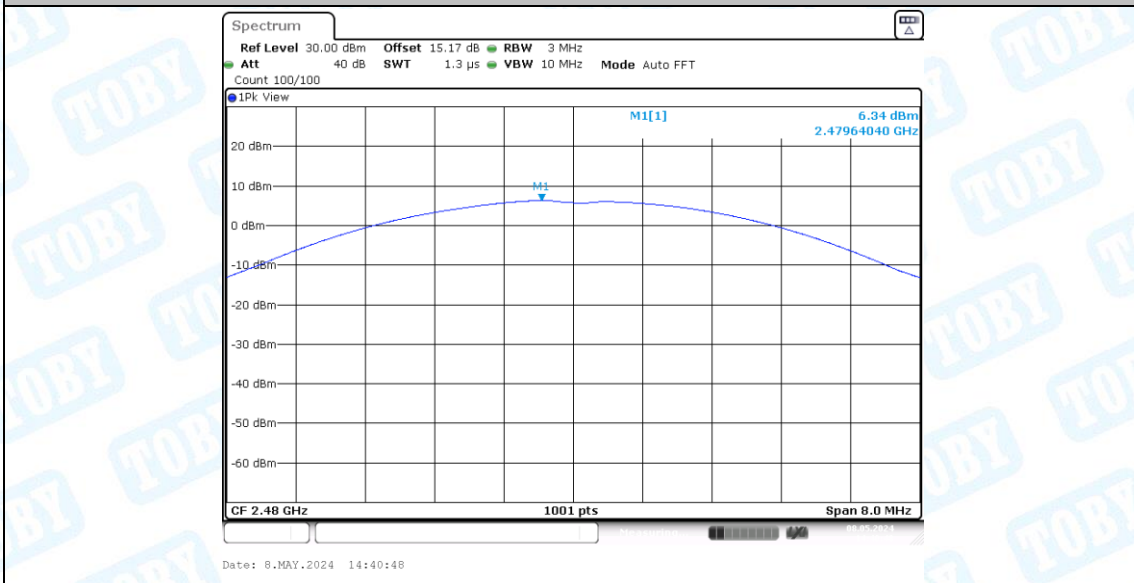
3DH5\_Ant1\_2402



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	≥0.860	PASS
2DH5	Ant1	Hop	1.049	≥0.880	PASS
3DH5	Ant1	Hop	1.351	≥1.300	PASS

## 4.2. Test Graphs



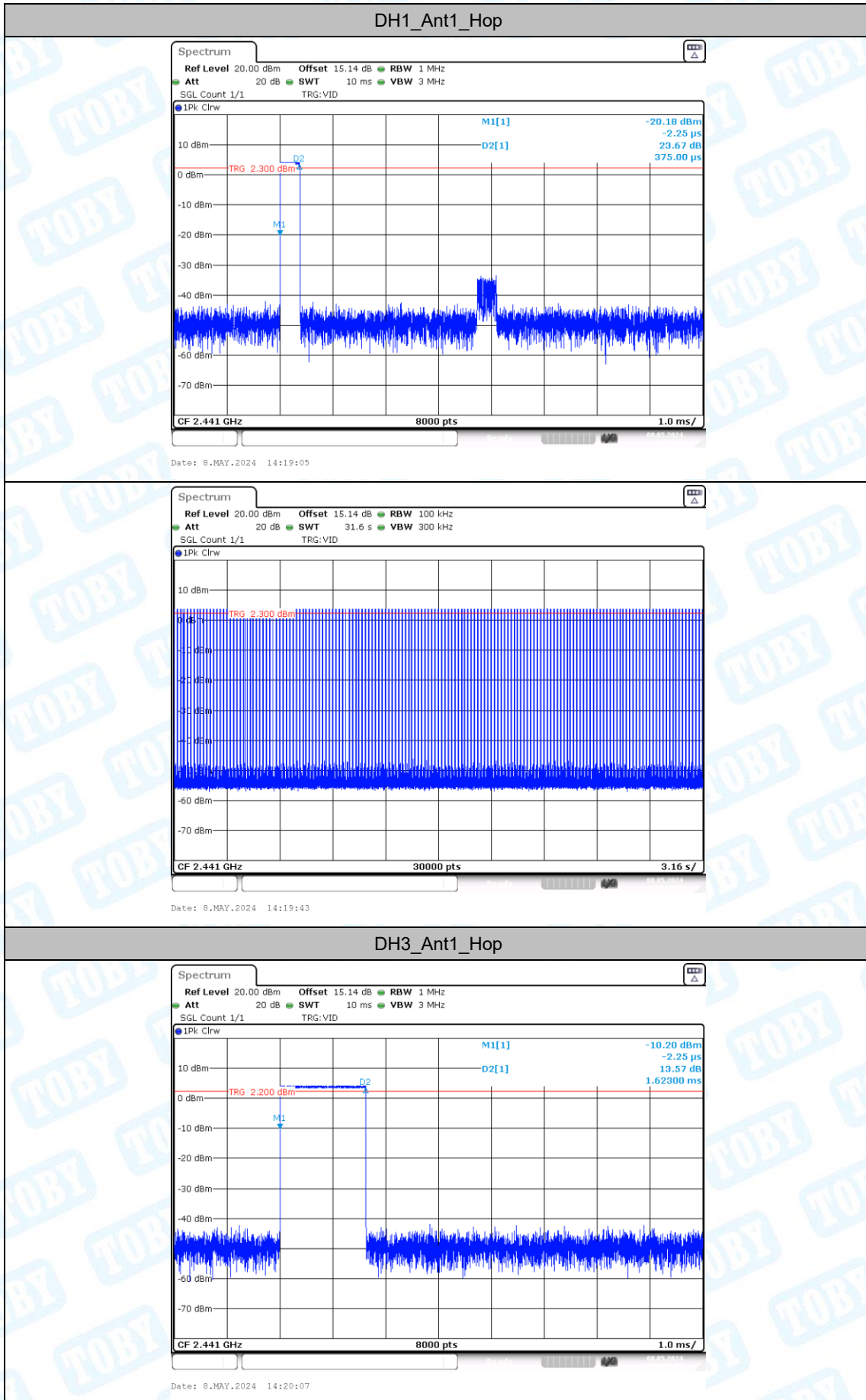


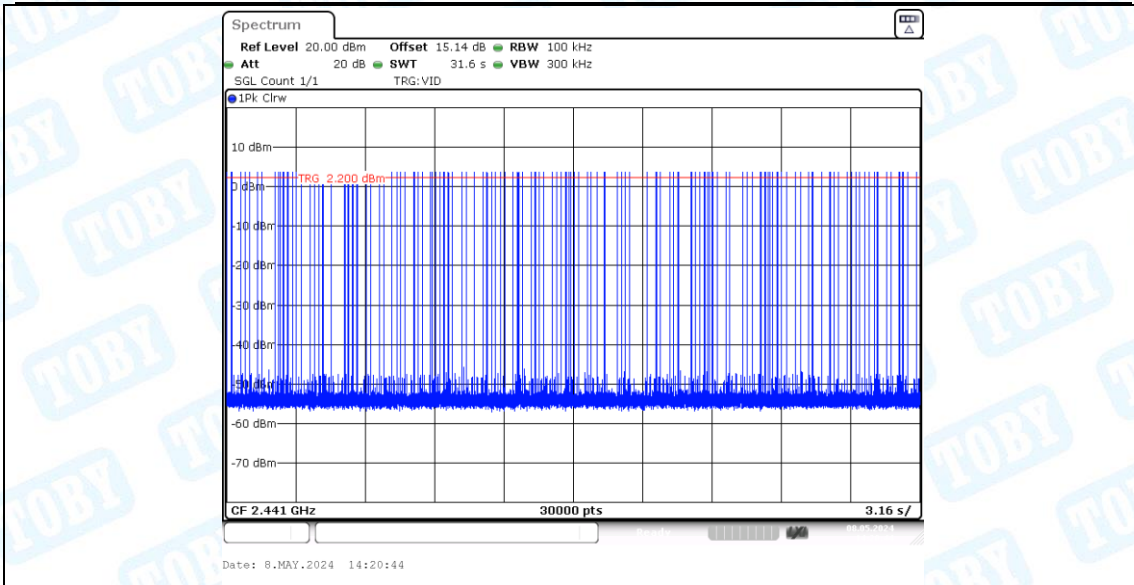
## 5. Time of occupancy

### 5.1. Test Result

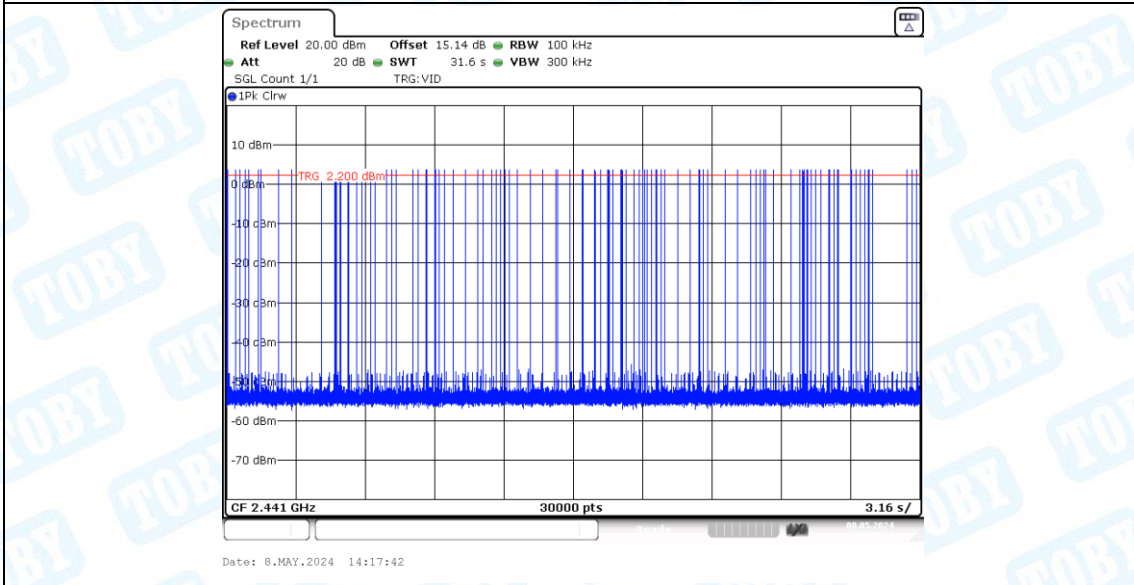
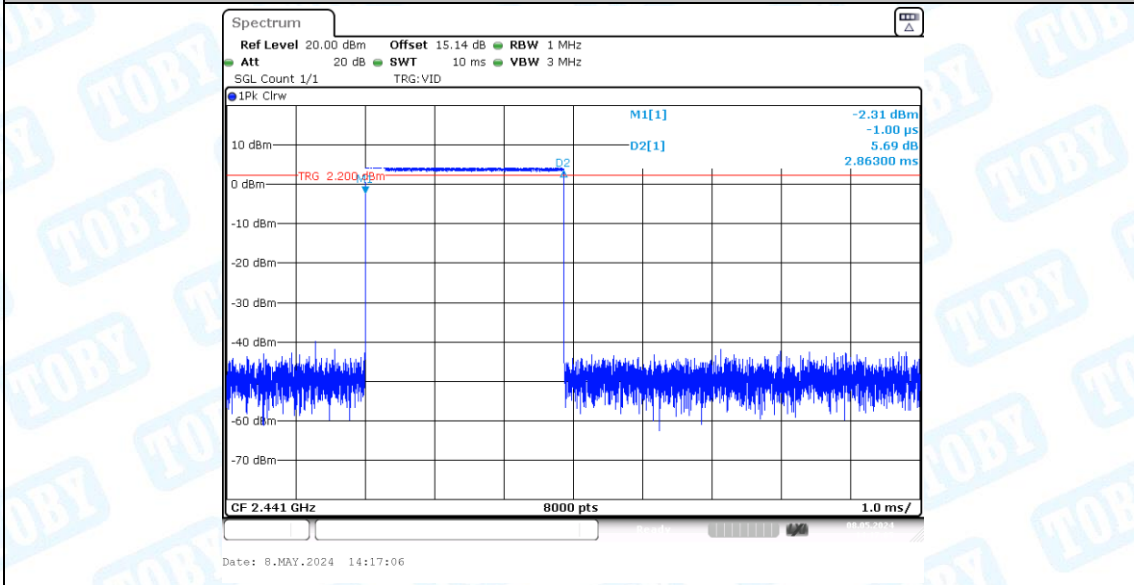
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	315	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.623	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.863	106	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.381	315	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.626	167	0.272	≤0.4	PASS
2DH5	Ant1	Hop	2.867	109	0.313	≤0.4	PASS
3DH1	Ant1	Hop	0.383	315	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.625	167	0.271	≤0.4	PASS
3DH5	Ant1	Hop	2.869	100	0.287	≤0.4	PASS

## 5.2. Test Graphs

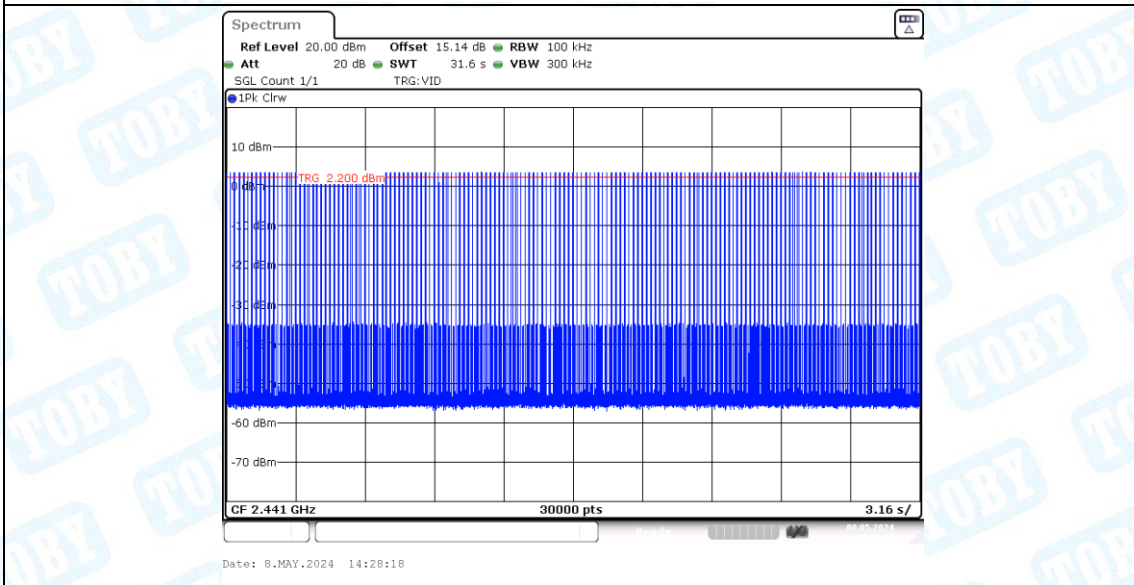
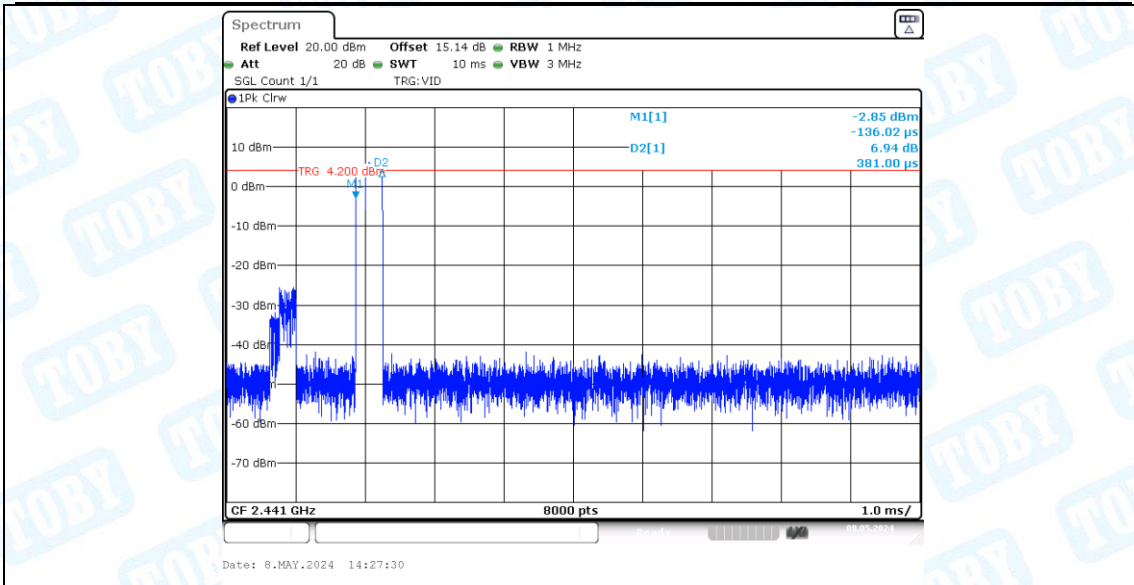




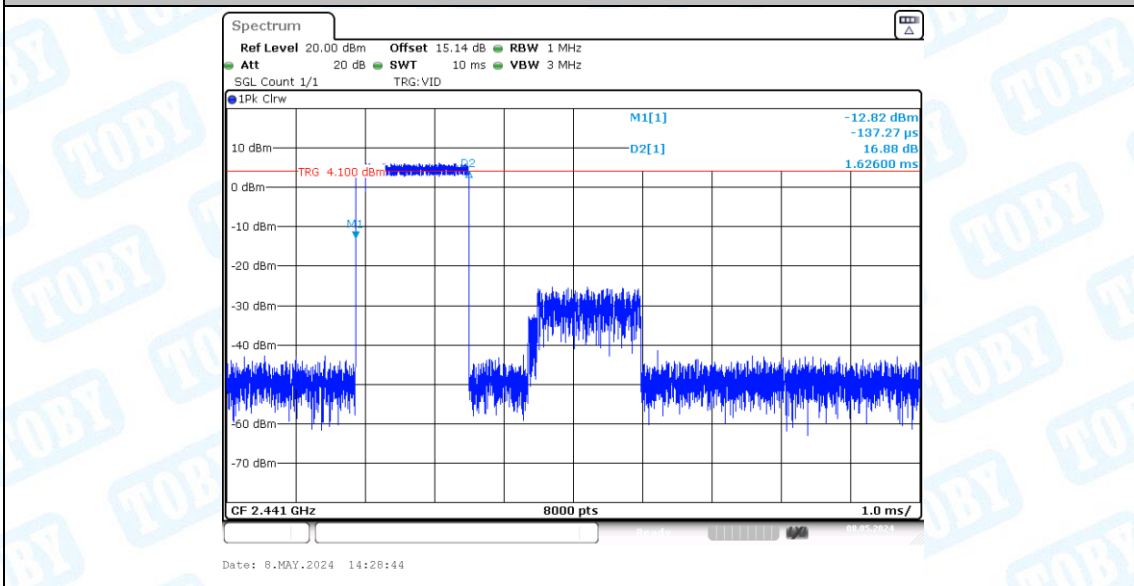
DH5\_Ant1\_Hop

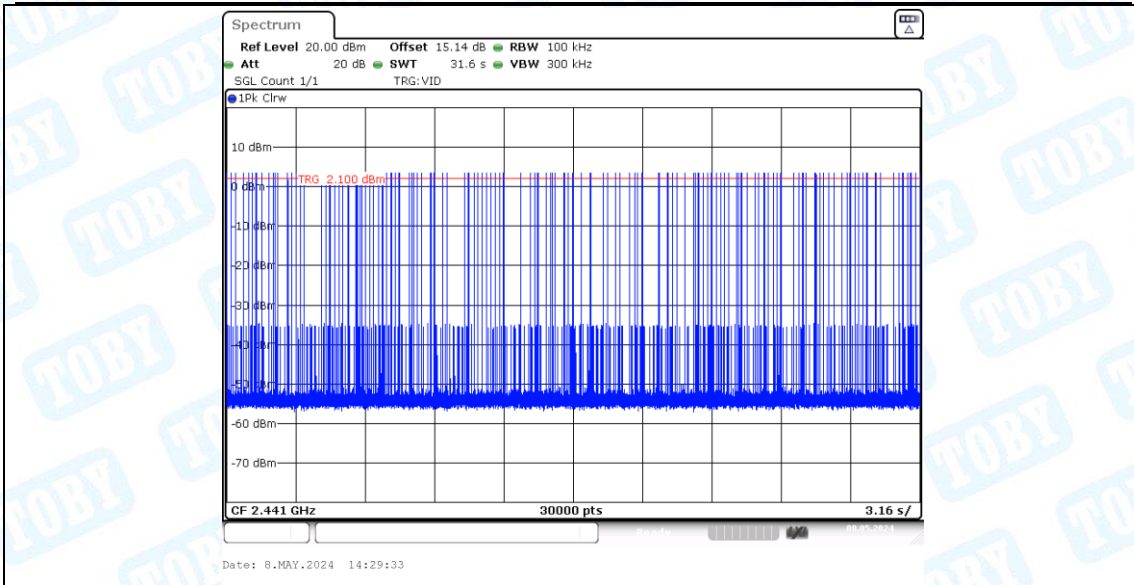


2DH1\_Ant1\_Hop

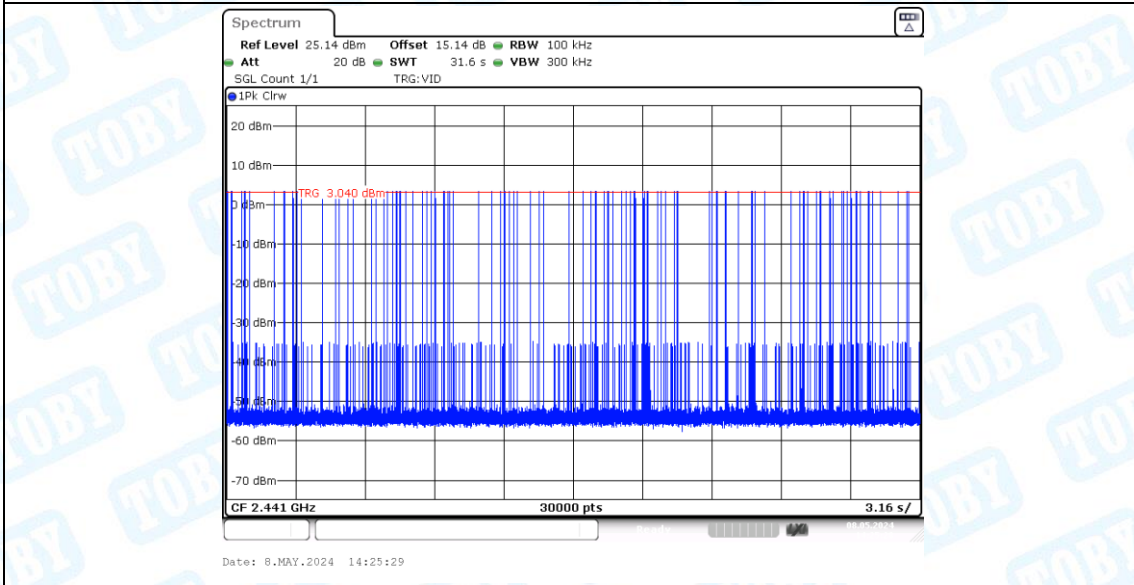
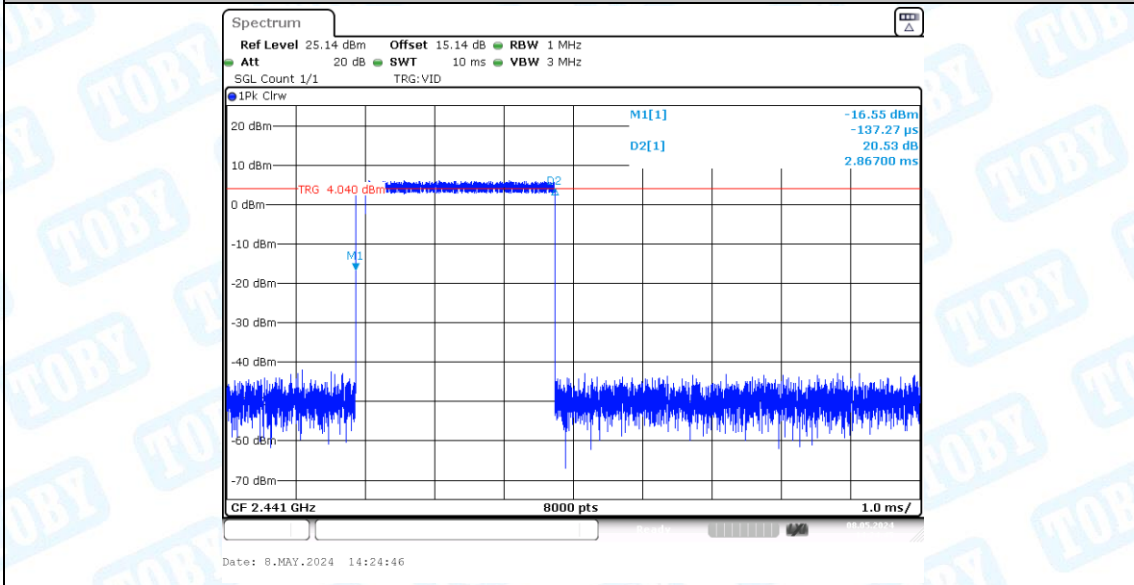


2DH3\_Ant1\_Hop

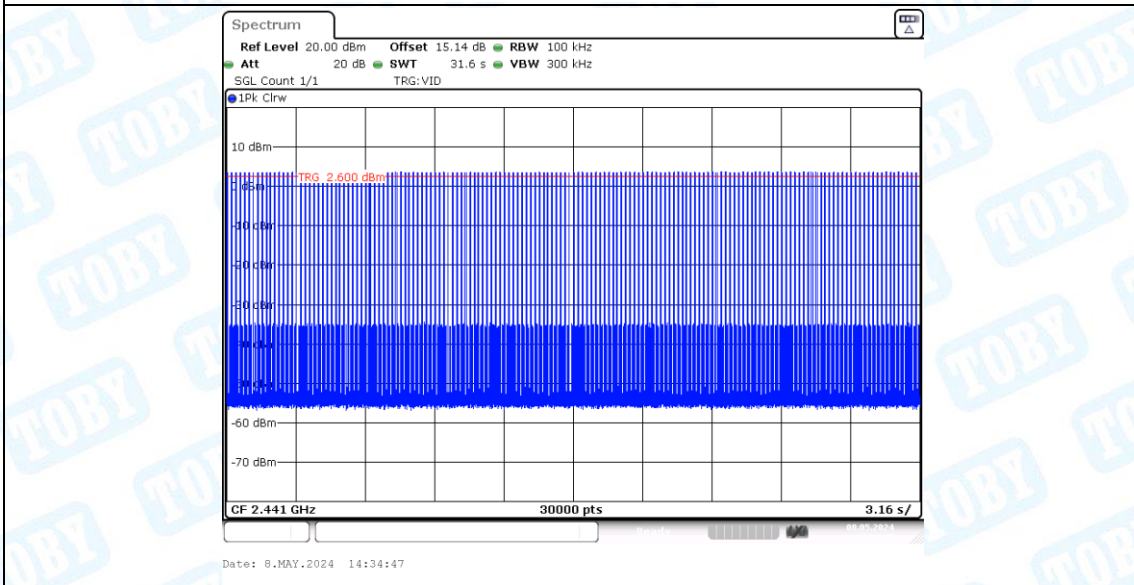
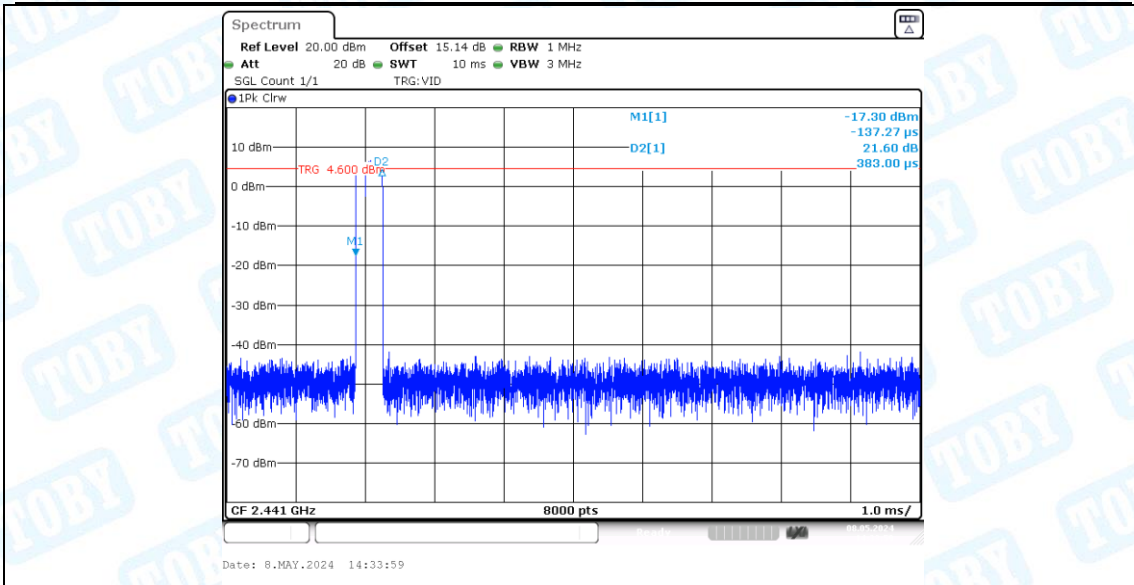




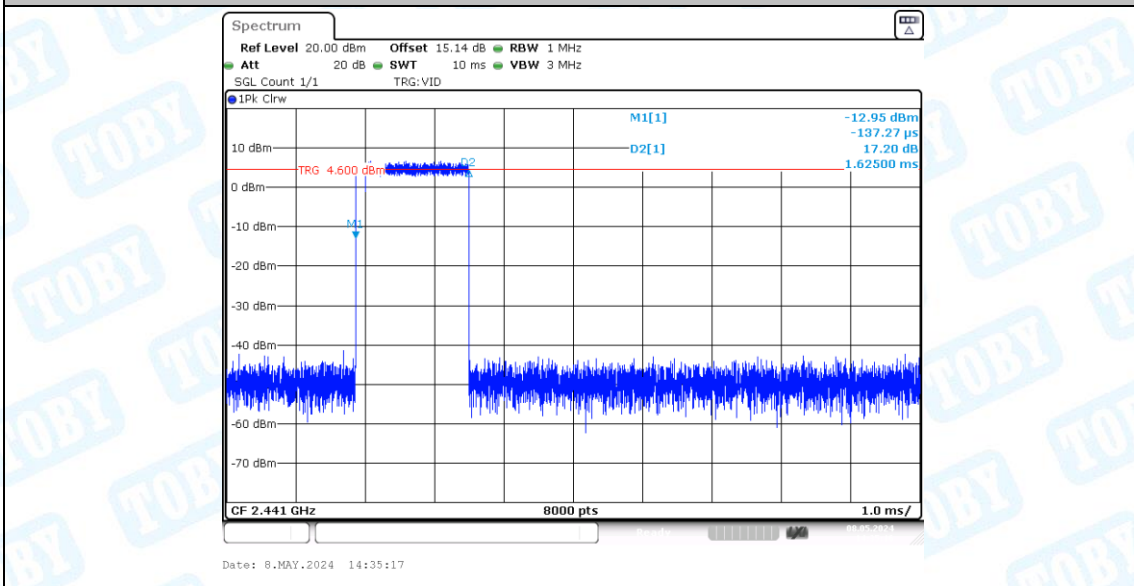
2DH5\_Ant1\_Hop

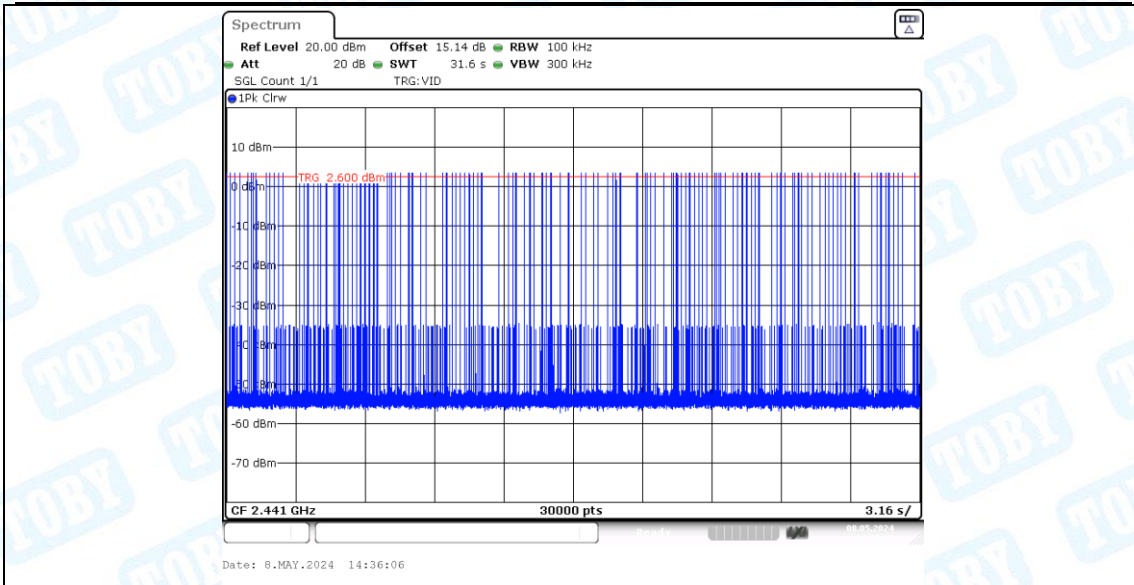


3DH1\_Ant1\_Hop

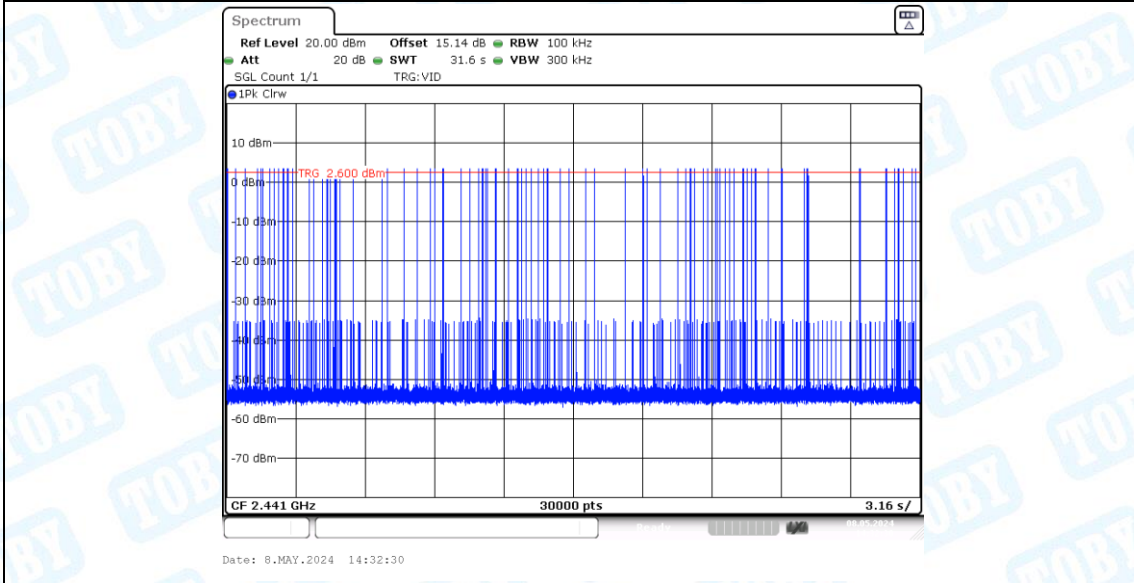
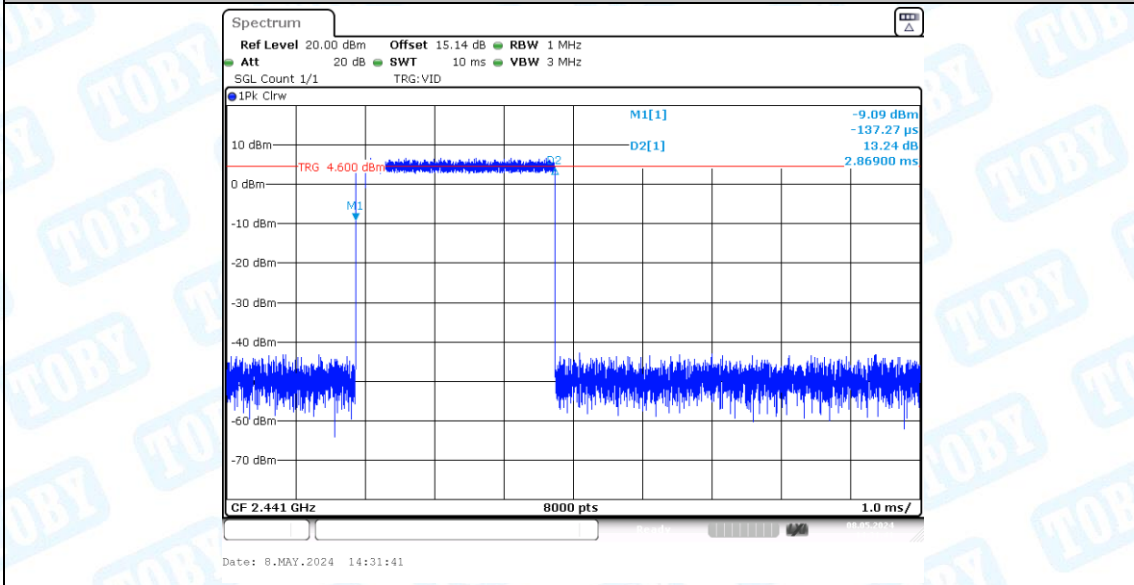


3DH3\_Ant1\_Hop





3DH5\_Ant1\_Hop



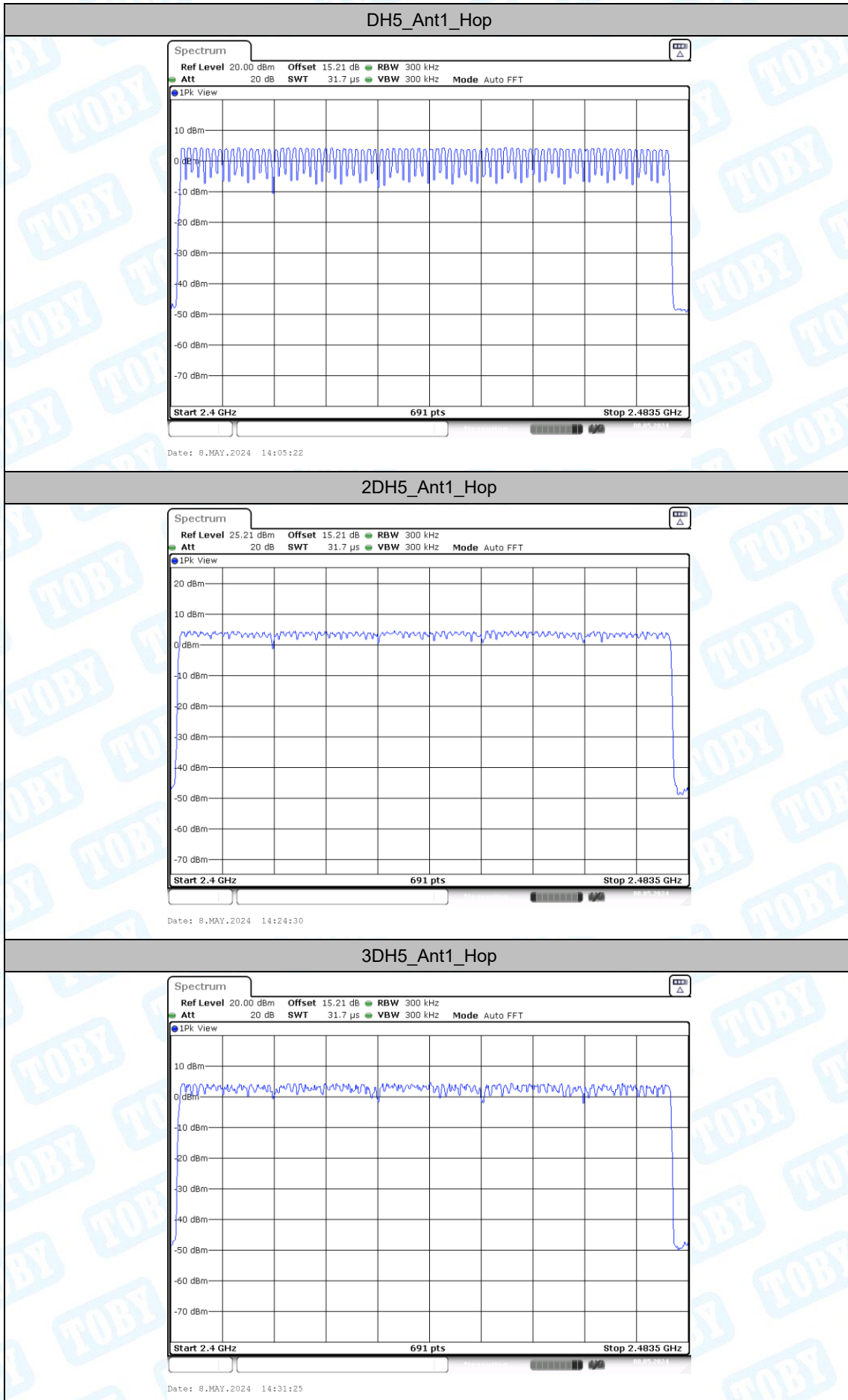
## 6. Number of hopping channels

### 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

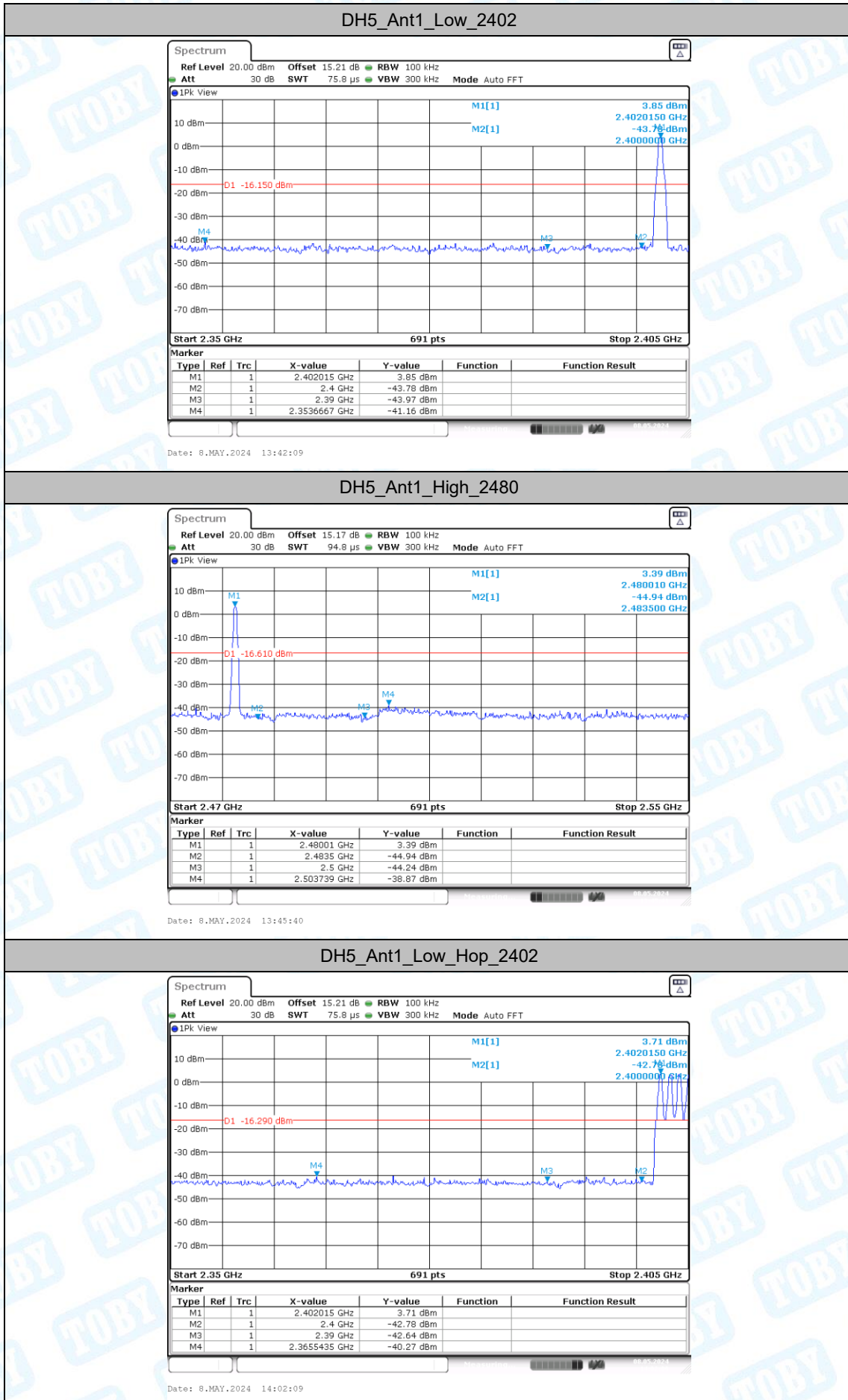


## 7. Band edge measurements

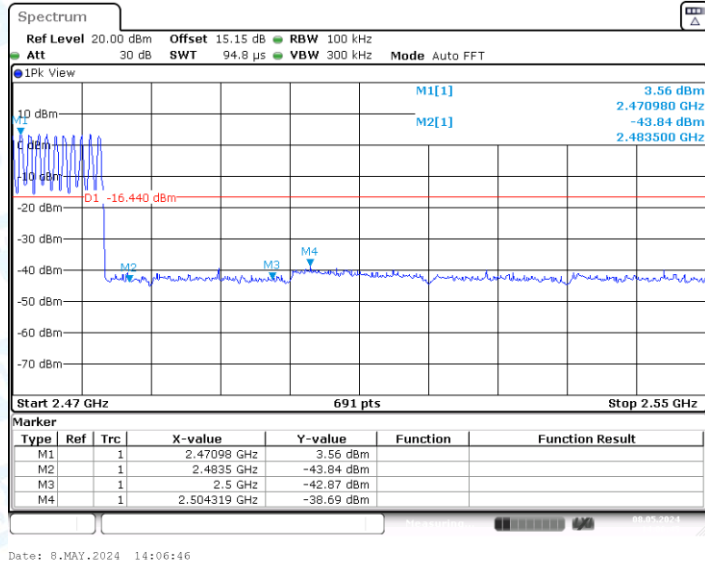
### 7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.85	-41.16	≤-16.15	PASS
		High	2480	3.39	-38.87	≤-16.61	PASS
		Low	Hop_2402	3.71	-40.27	≤-16.29	PASS
		High	Hop_2480	3.56	-38.69	≤-16.44	PASS
2DH5	Ant1	Low	2402	3.76	-41.08	≤-16.24	PASS
		High	2480	2.76	-39.15	≤-17.24	PASS
		Low	Hop_2402	3.95	-40.35	≤-16.05	PASS
		High	Hop_2480	3.47	-38.76	≤-16.53	PASS
3DH5	Ant1	Low	2402	4.01	-40.64	≤-15.99	PASS
		High	2480	3.51	-39.7	≤-16.49	PASS
		Low	Hop_2402	2.11	-40.35	≤-17.89	PASS
		High	Hop_2480	3.75	-39.34	≤-16.25	PASS

## 7.2. Test Graphs

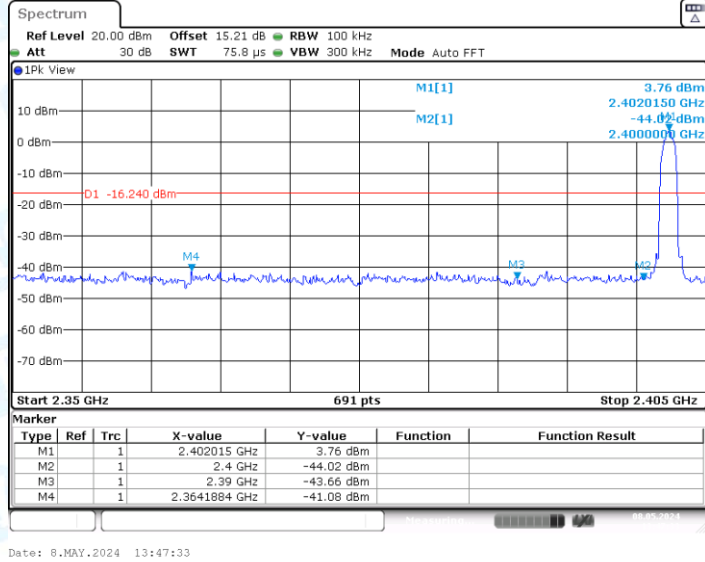


DH5\_Ant1\_High\_Hop\_2480



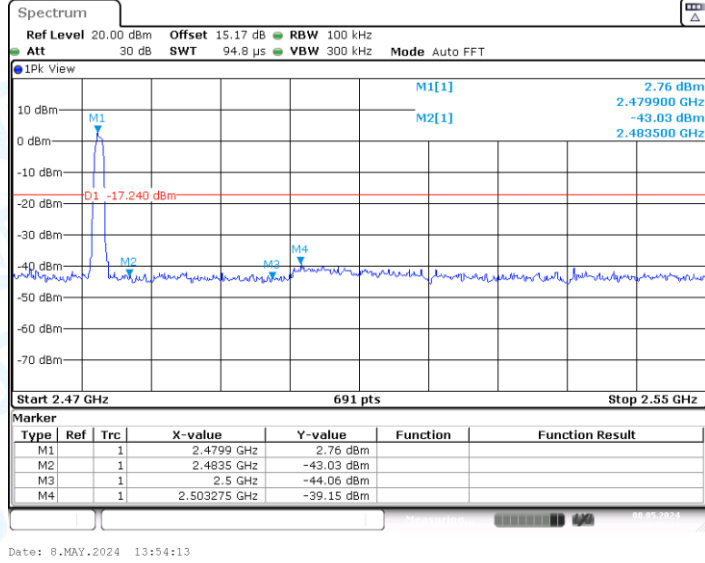
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2DH5\_Ant1\_Low\_2402



Date: 8.MAY.2024 13:47:33

2DH5\_Ant1\_High\_2480



Date: 8.MAY.2024 13:54:13

2DH5\_Ant1\_Low\_Hop\_2402