

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

General Description of EUT	
<b>Product Name:</b>	Wooden box record player
<b>Test Model:</b>	TT517-13
<b>Sample ID:</b>	HC-C-202309-0053-01-01-2#
Environmental Conditions	
<b>Temperature:</b>	23.8°C
<b>Relative Humidity:</b>	48%
<b>Test Voltage:</b>	DC 12V
<b>Test Engineer:</b>	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202309-0053-1	

## Contents

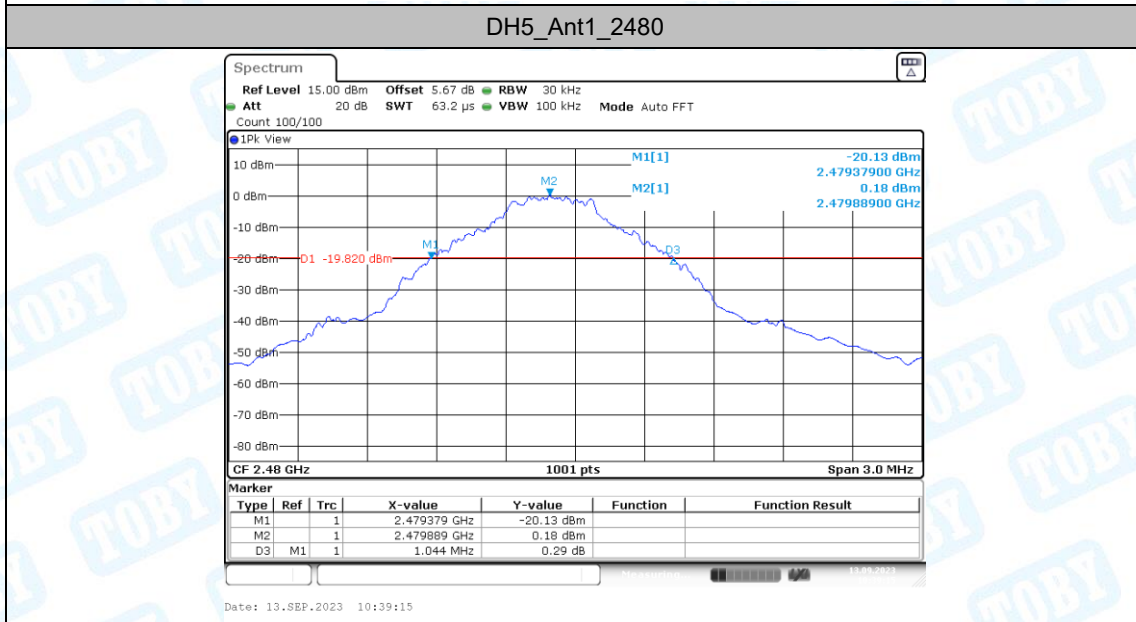
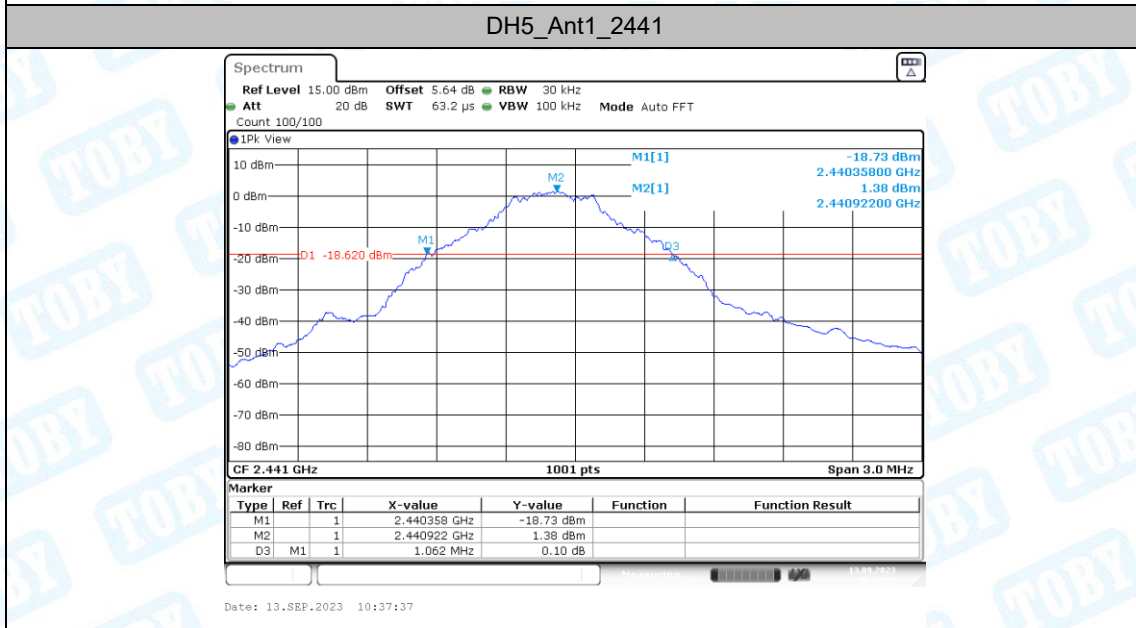
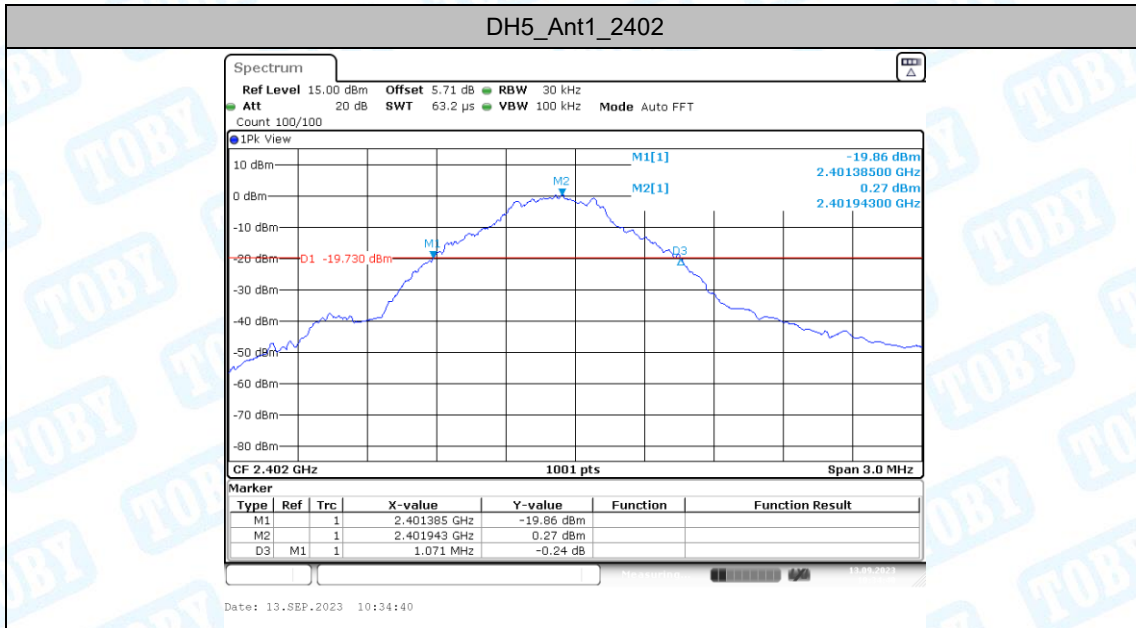
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## 1. 20dB Emission Bandwidth

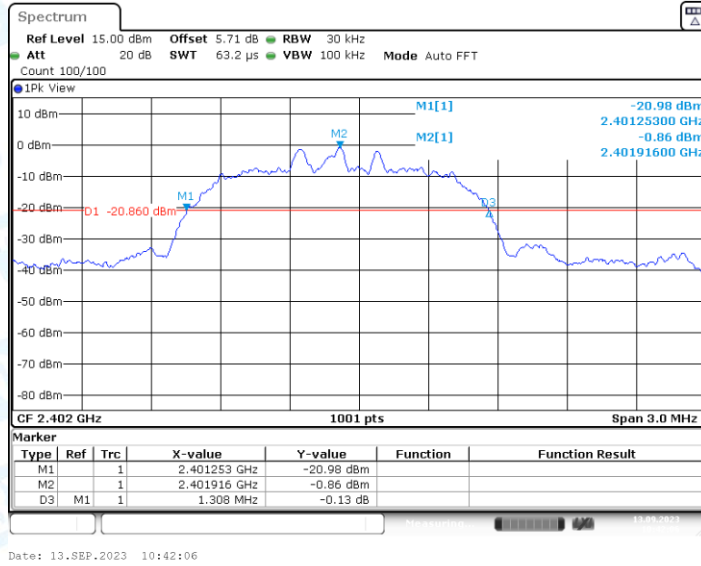
### 1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.07	---	---
		2441	1.06	---	---
		2480	1.04	---	---
2DH5	Ant1	2402	1.31	---	---
		2441	1.32	---	---
		2480	1.31	---	---
3DH5	Ant1	2402	1.31	---	---
		2441	1.30	---	---
		2480	1.31	---	---

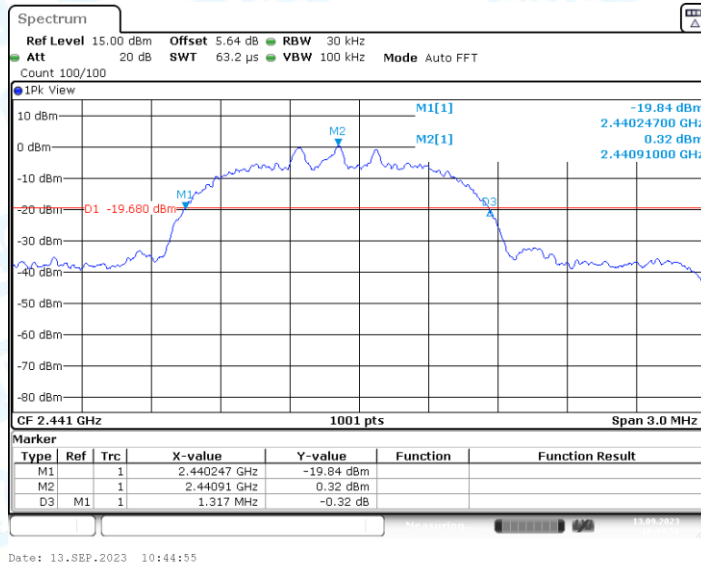
## 1.2. Test Graphs



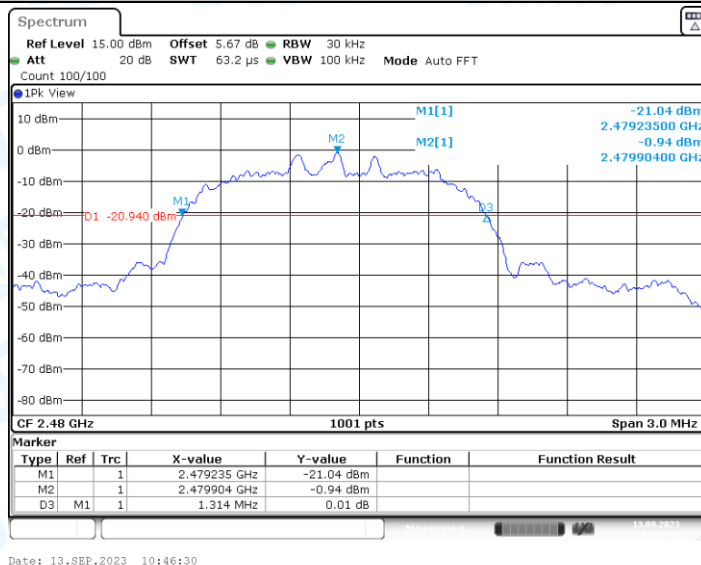
2DH5\_Ant1\_2402



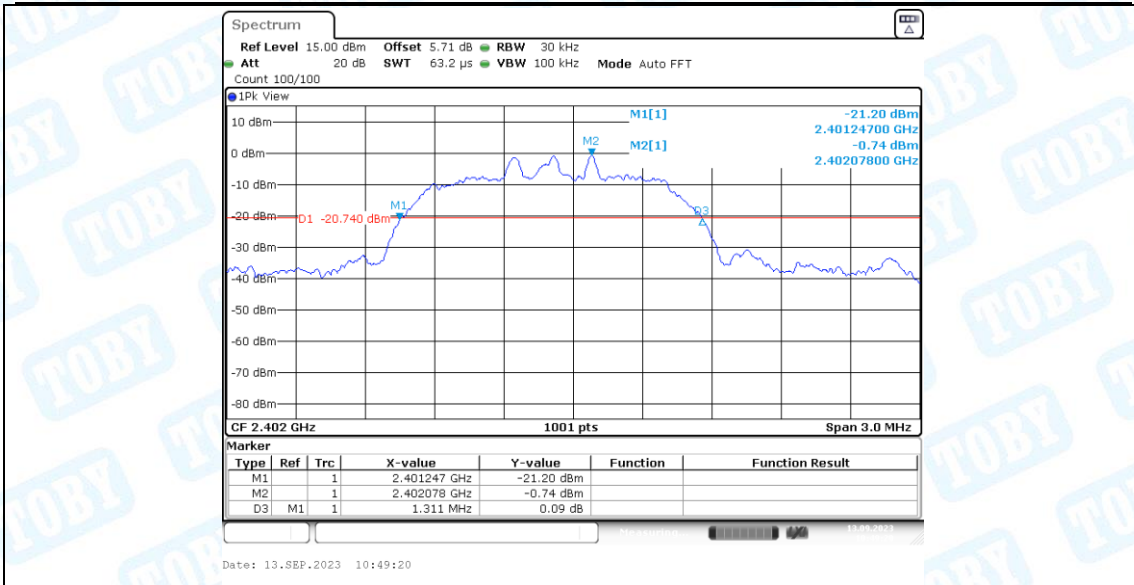
2DH5\_Ant1\_2441



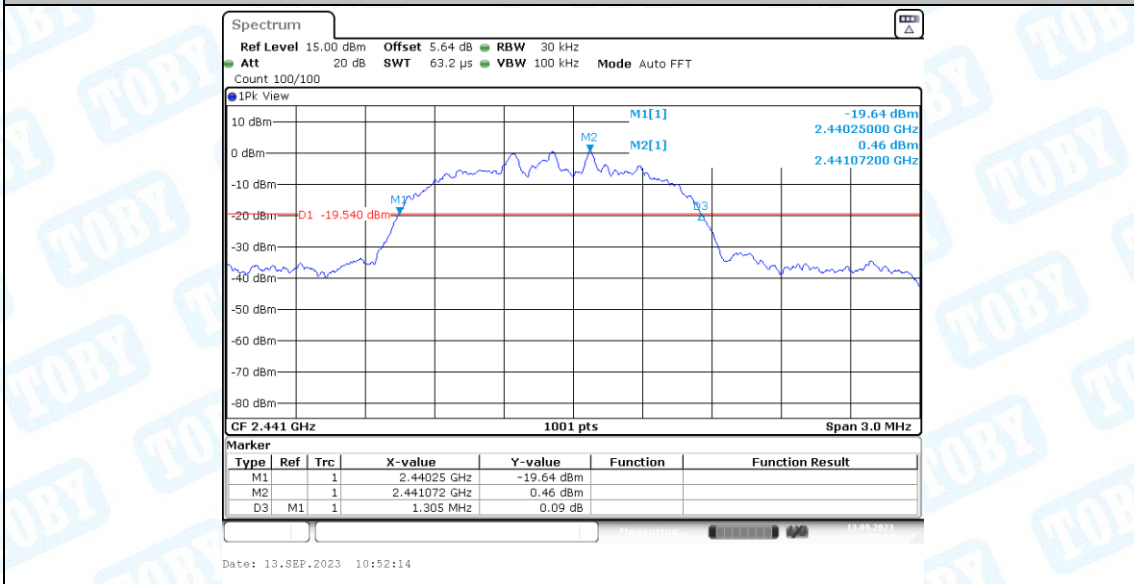
2DH5\_Ant1\_2480



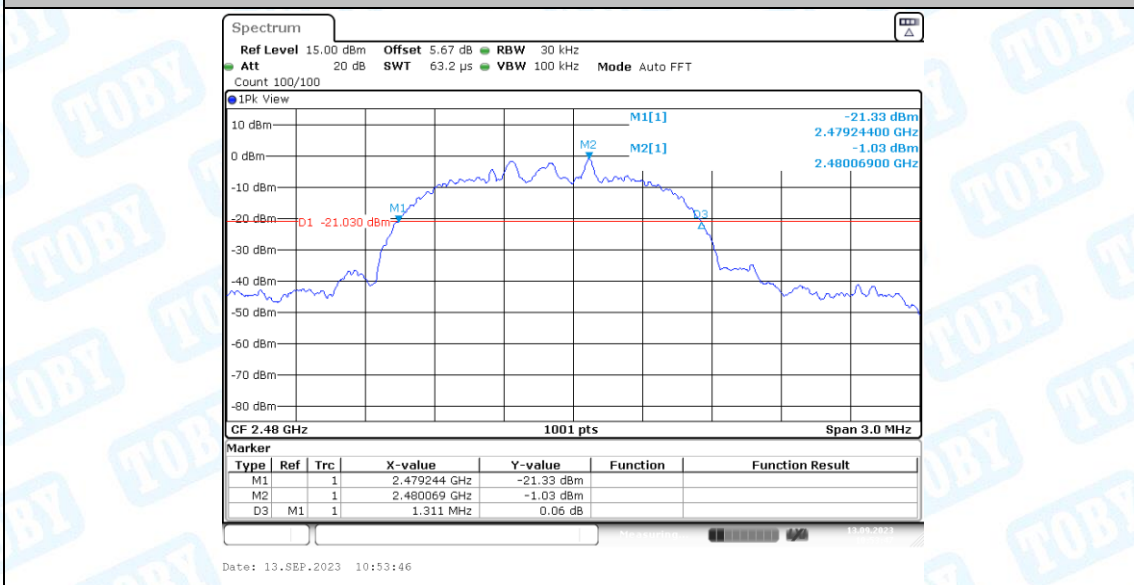
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

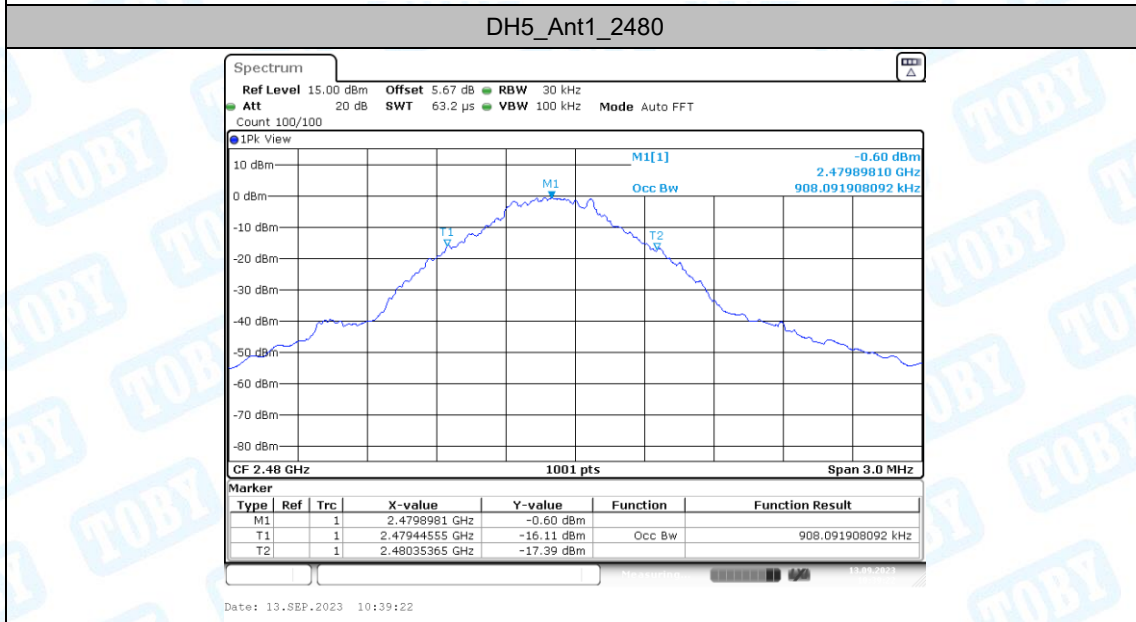
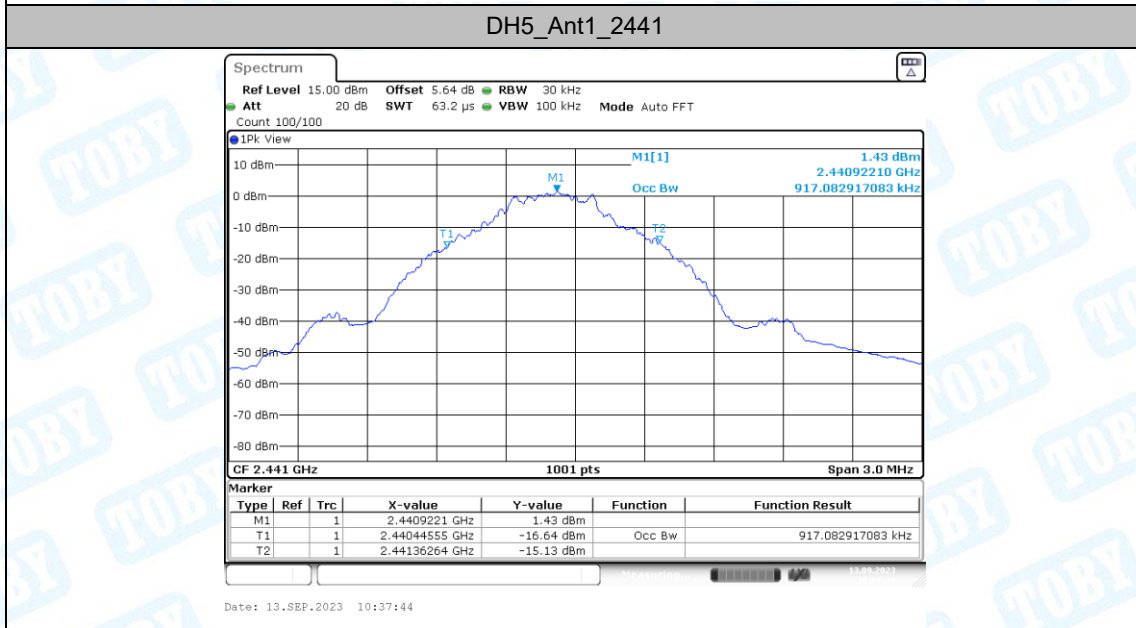
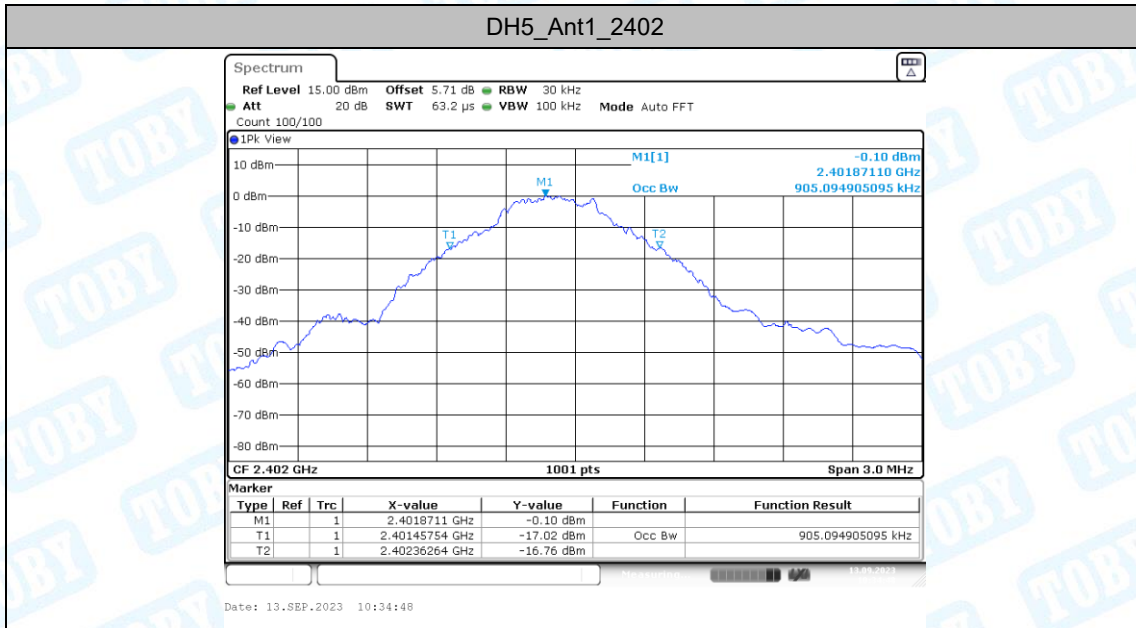


## 2. Occupied Channel Bandwidth

### 2.1. Test Result

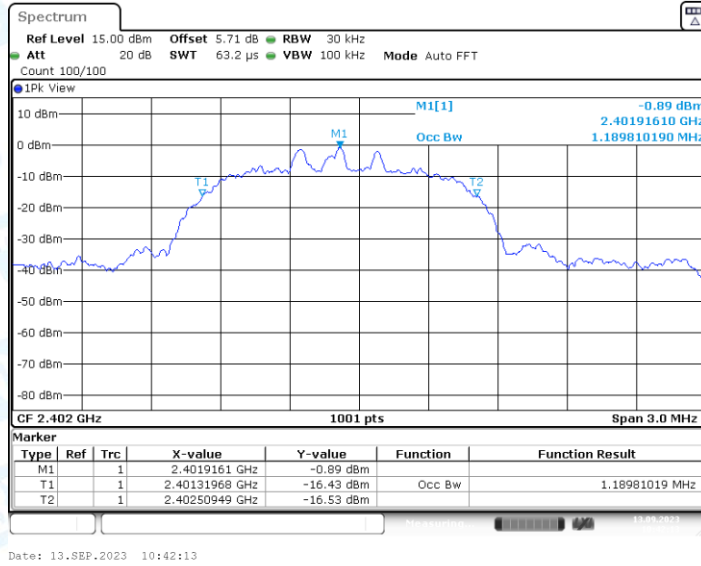
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.905	2401.4575	2402.3626	---	---
		2441	0.917	2440.4456	2441.3626	---	---
		2480	0.908	2479.4456	2480.3536	---	---
2DH5	Ant1	2402	1.19	2401.3197	2402.5095	---	---
		2441	1.208	2440.2987	2441.5065	---	---
		2480	1.208	2479.2987	2480.5065	---	---
3DH5	Ant1	2402	1.187	2401.3107	2402.4975	---	---
		2441	1.19	2440.3077	2441.4975	---	---
		2480	1.196	2479.2987	2480.4945	---	---

## 2.2. Test Graphs

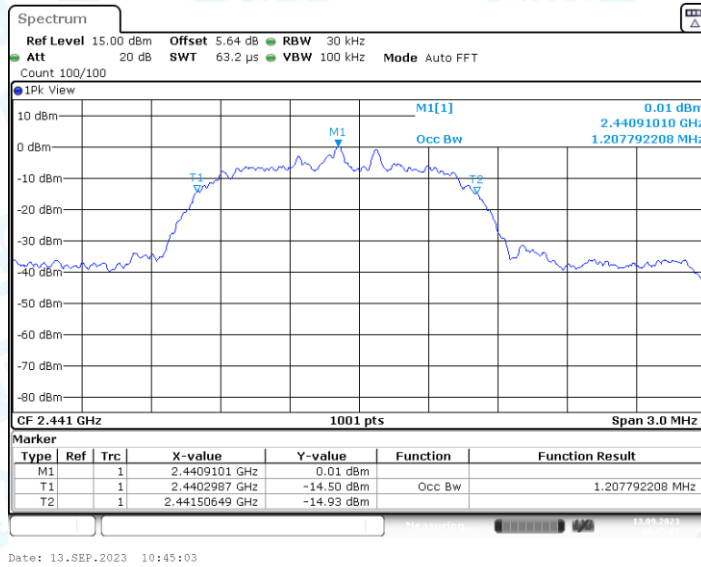




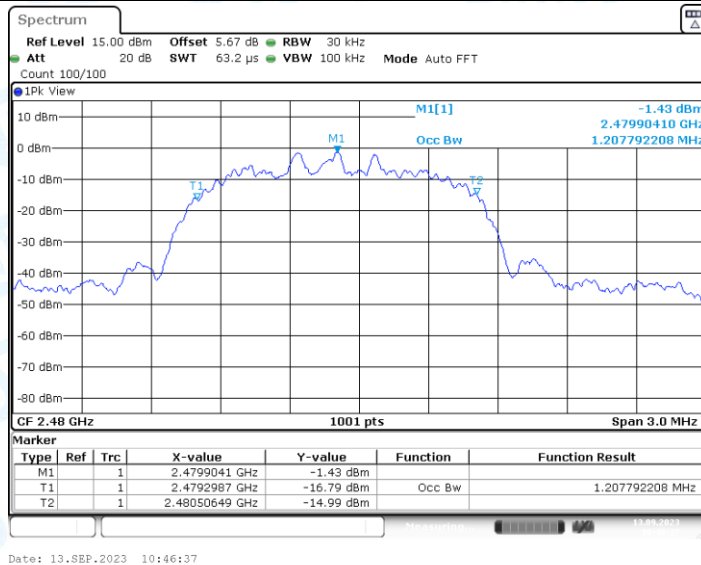
2DH5\_Ant1\_2402



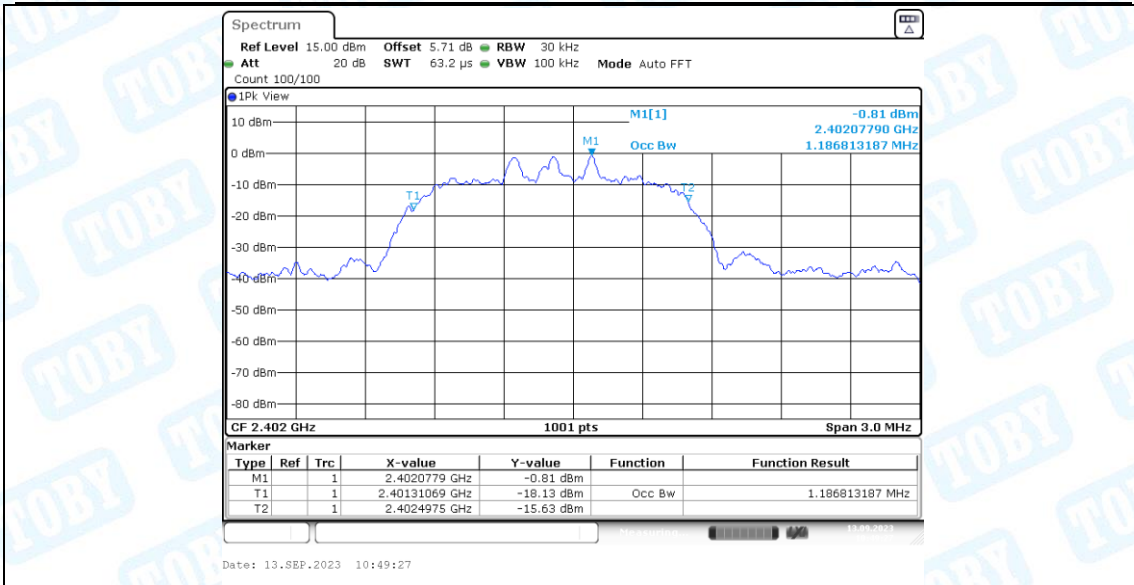
2DH5\_Ant1\_2441



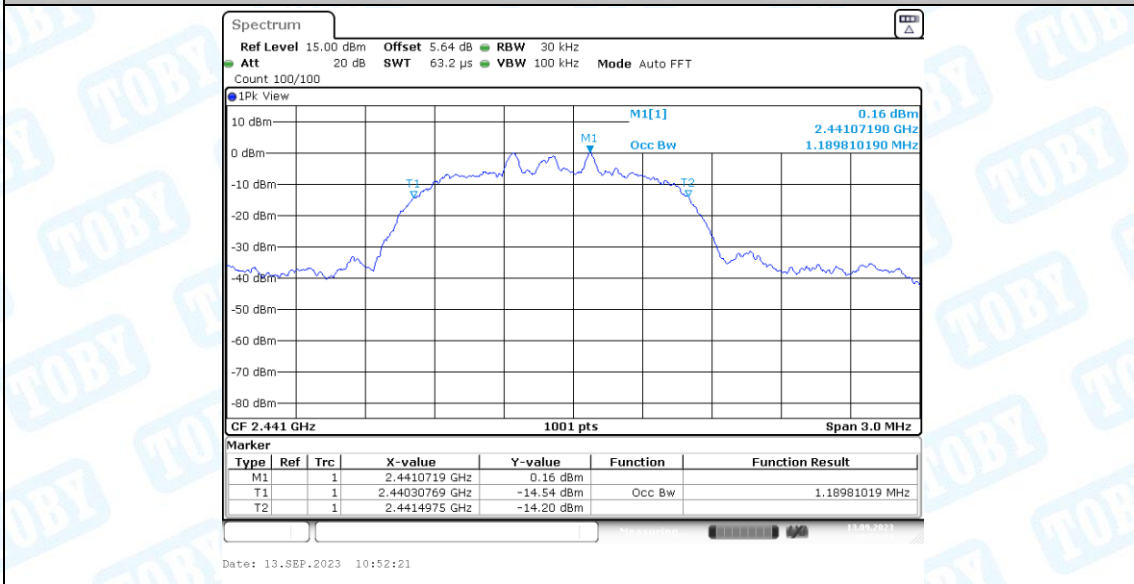
2DH5\_Ant1\_2480



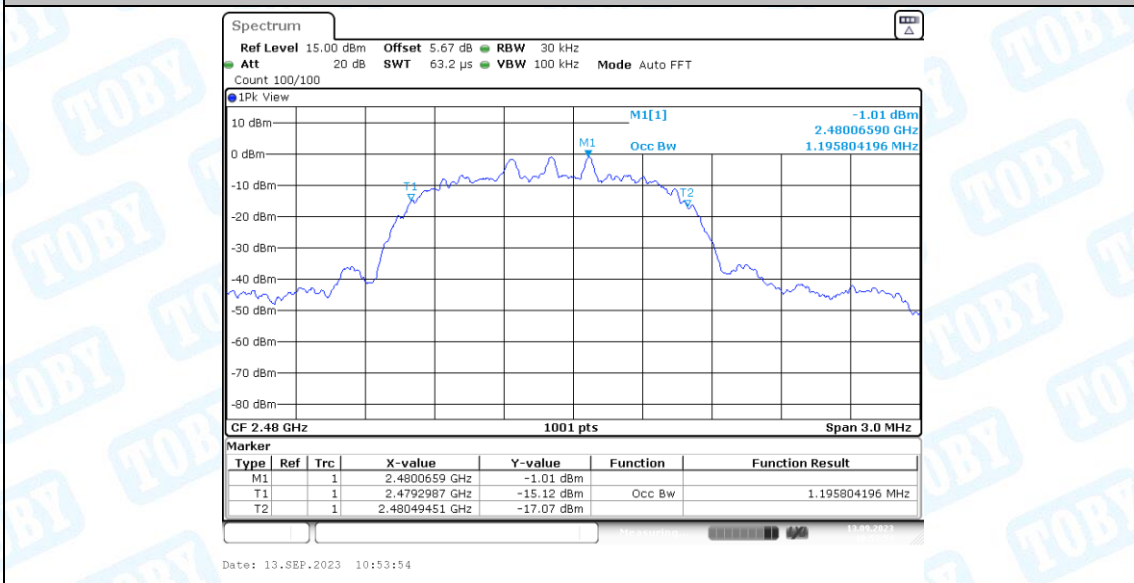
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

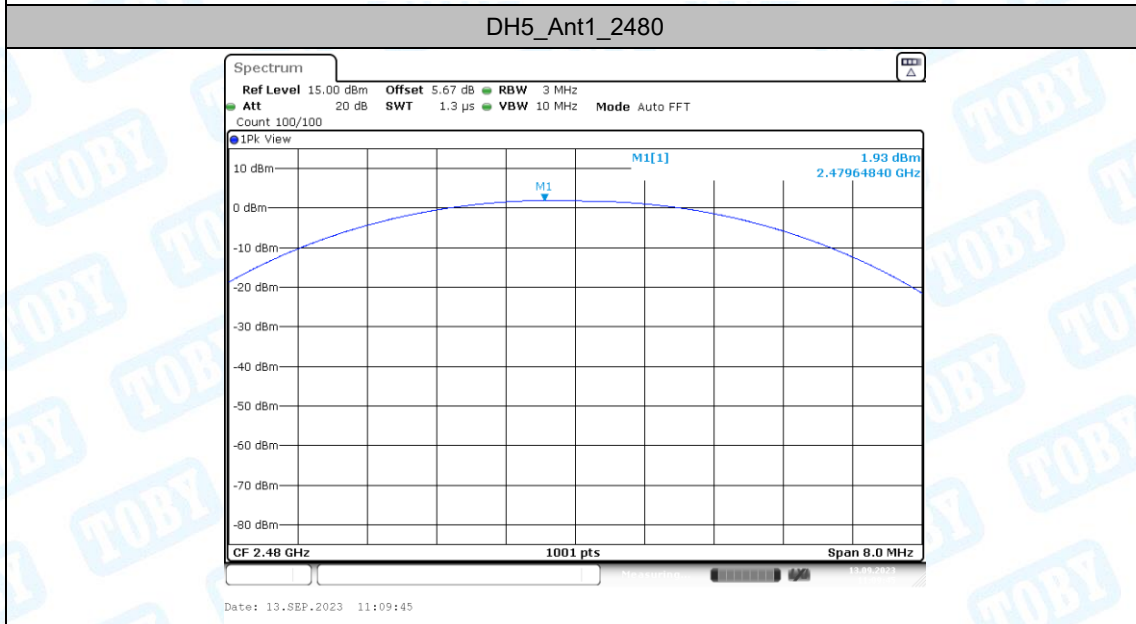
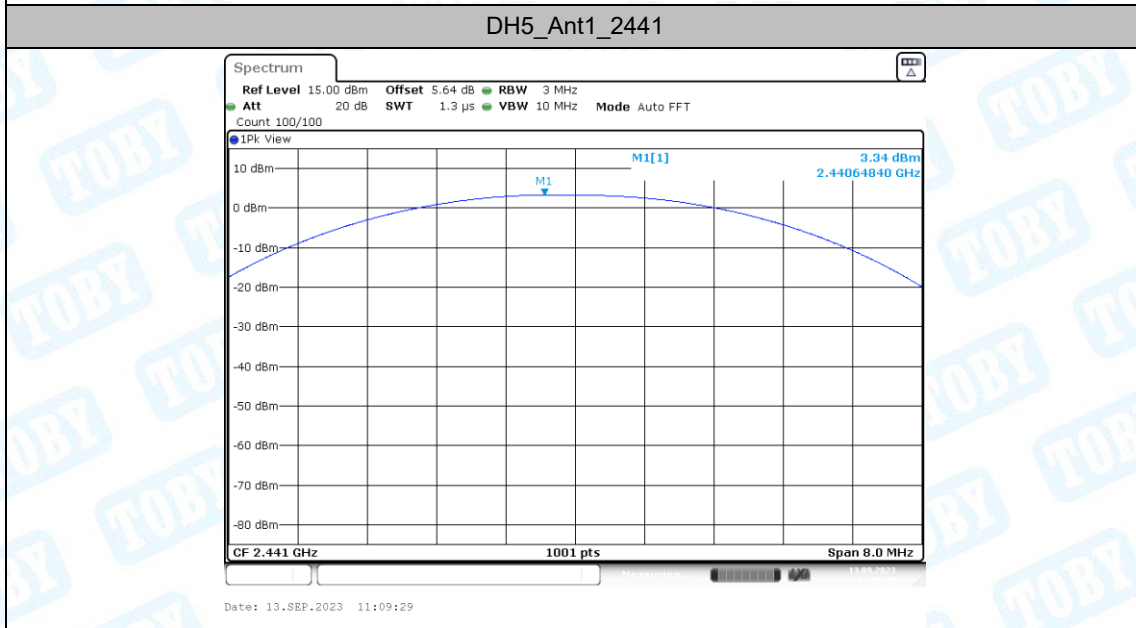
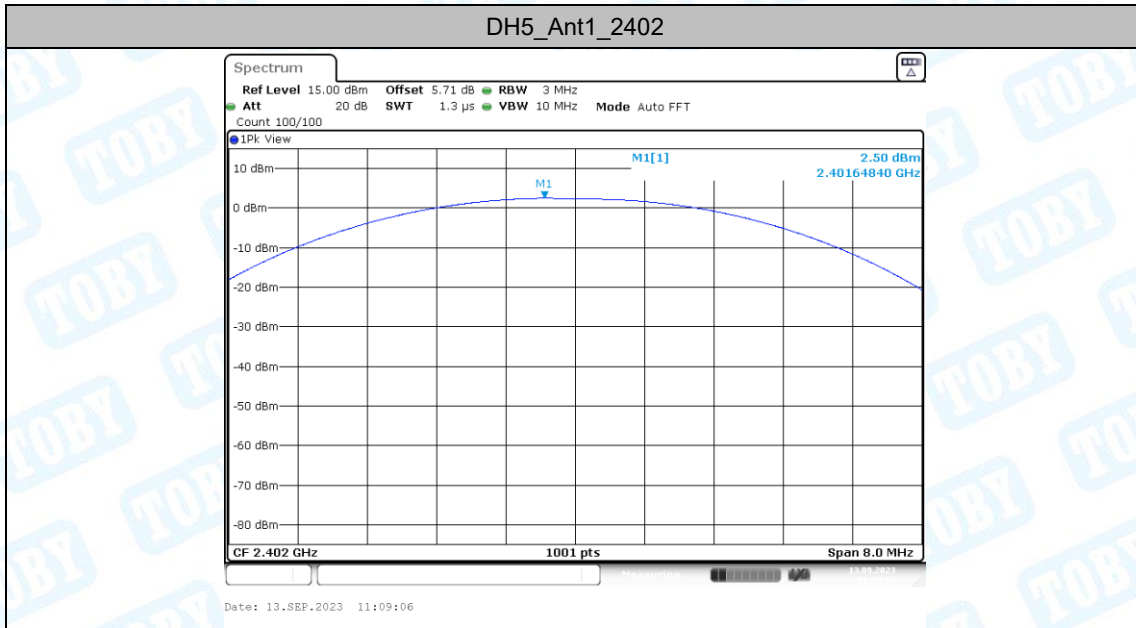


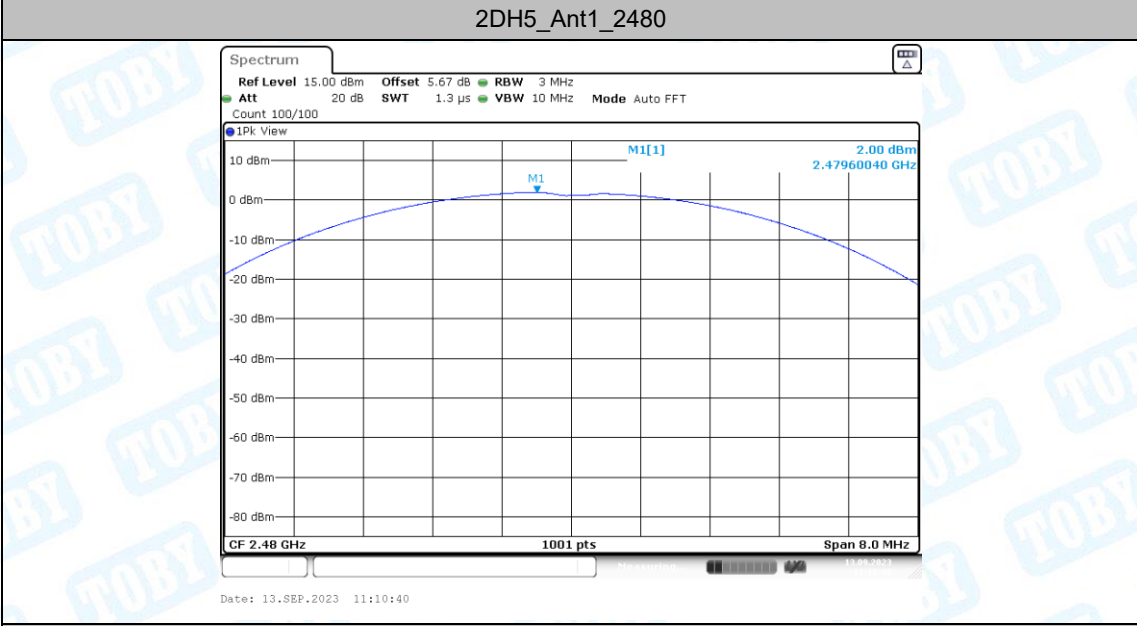
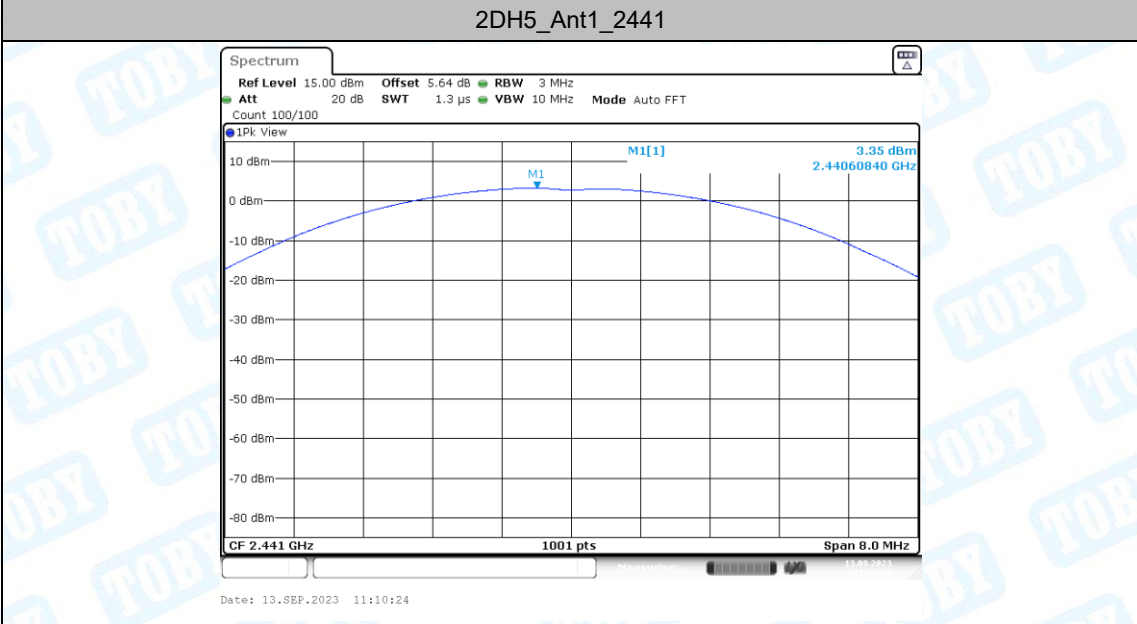
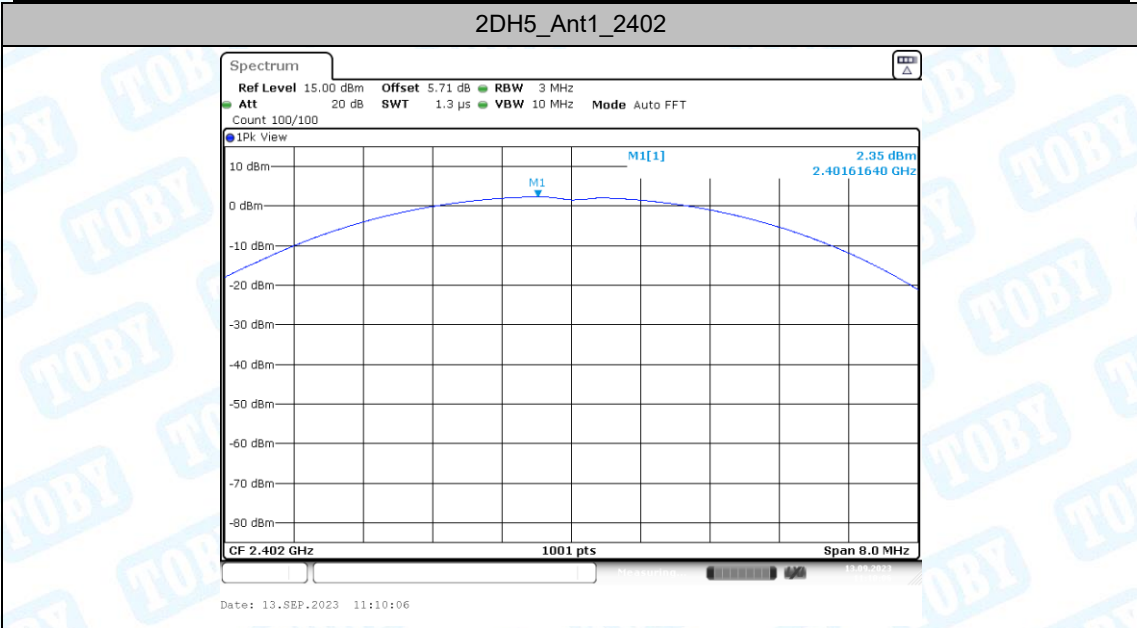
### 3. Maximum conducted output power

#### 3.1. Test Result

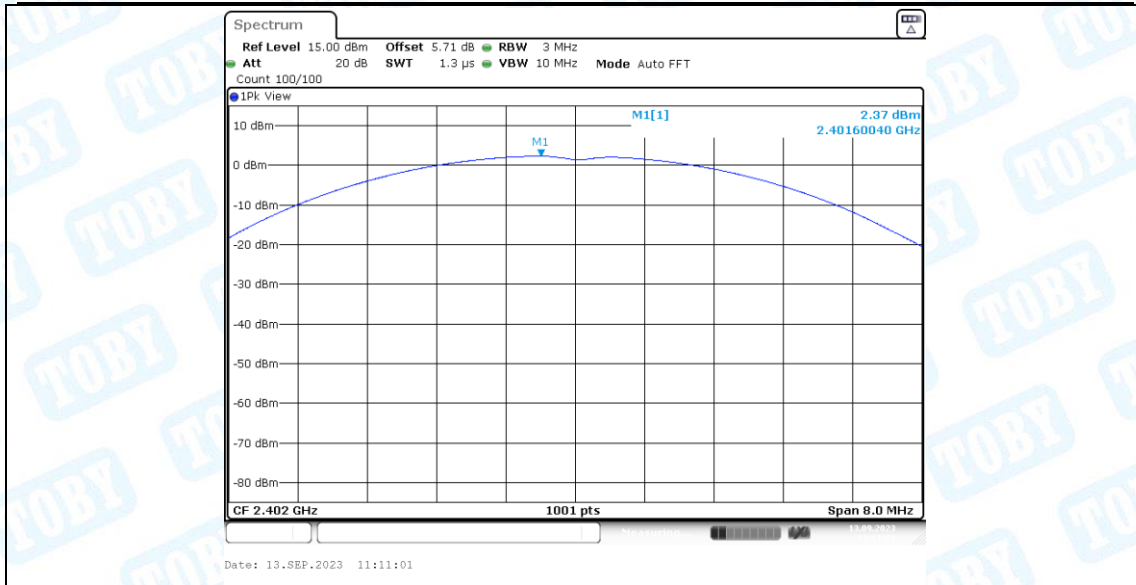
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.50	≤21	PASS
		2441	3.34	≤21	PASS
		2480	1.93	≤21	PASS
2DH5	Ant1	2402	2.35	≤21	PASS
		2441	3.35	≤21	PASS
		2480	2.00	≤21	PASS
3DH5	Ant1	2402	2.37	≤21	PASS
		2441	3.37	≤21	PASS
		2480	1.90	≤21	PASS

### 3.2. Test Graphs

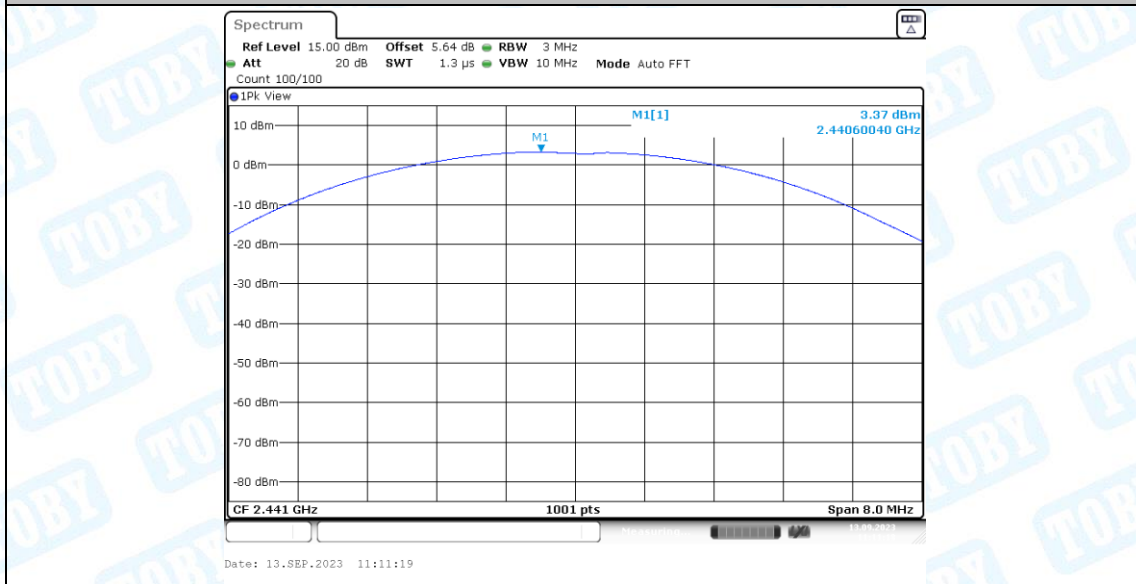




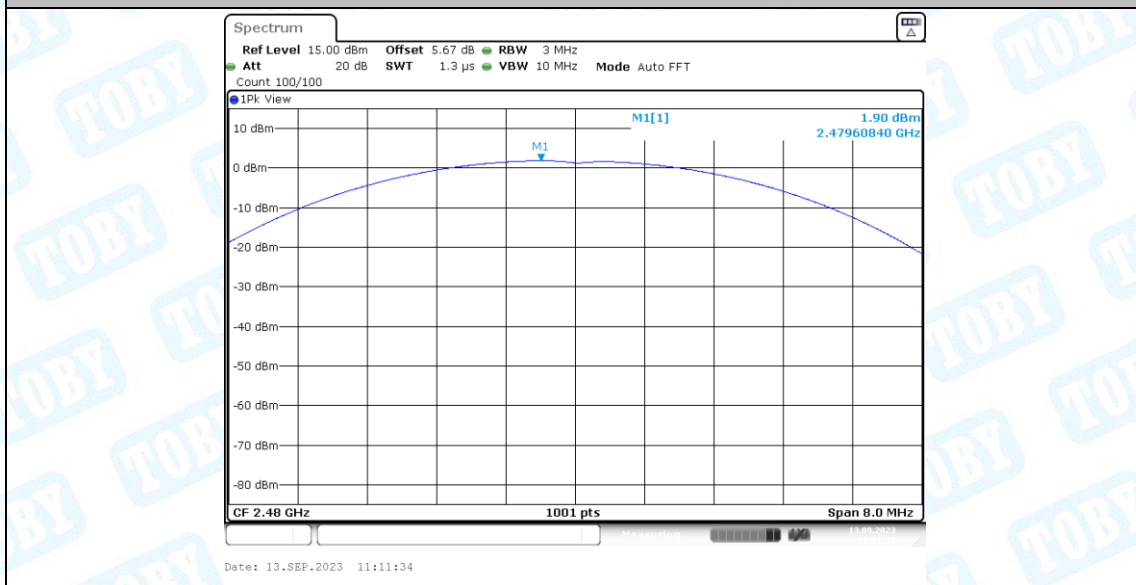
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

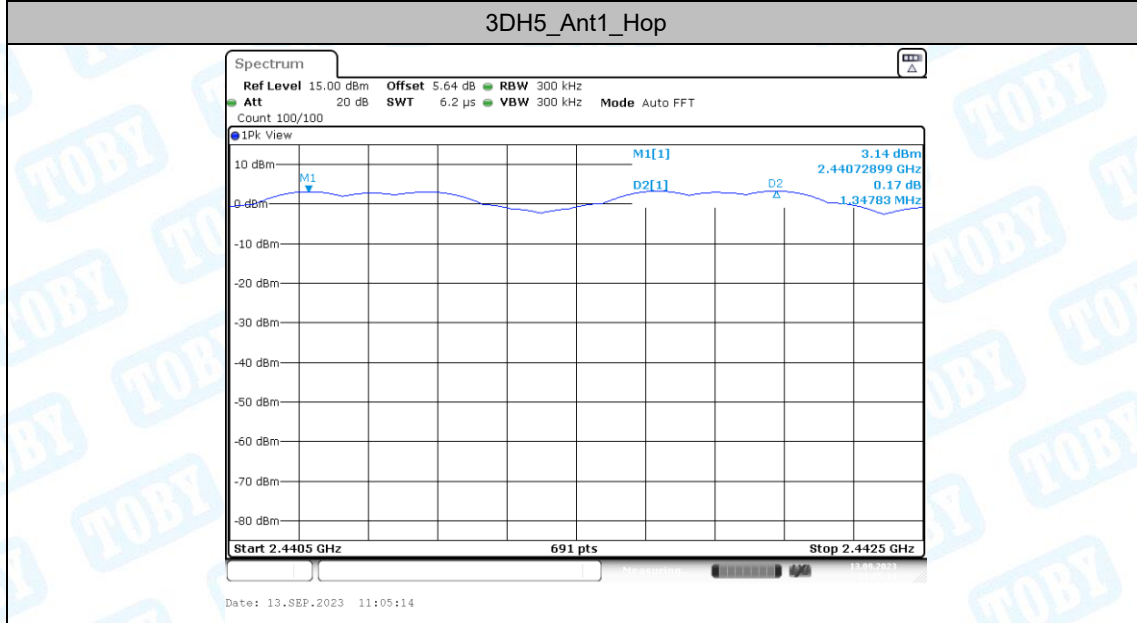
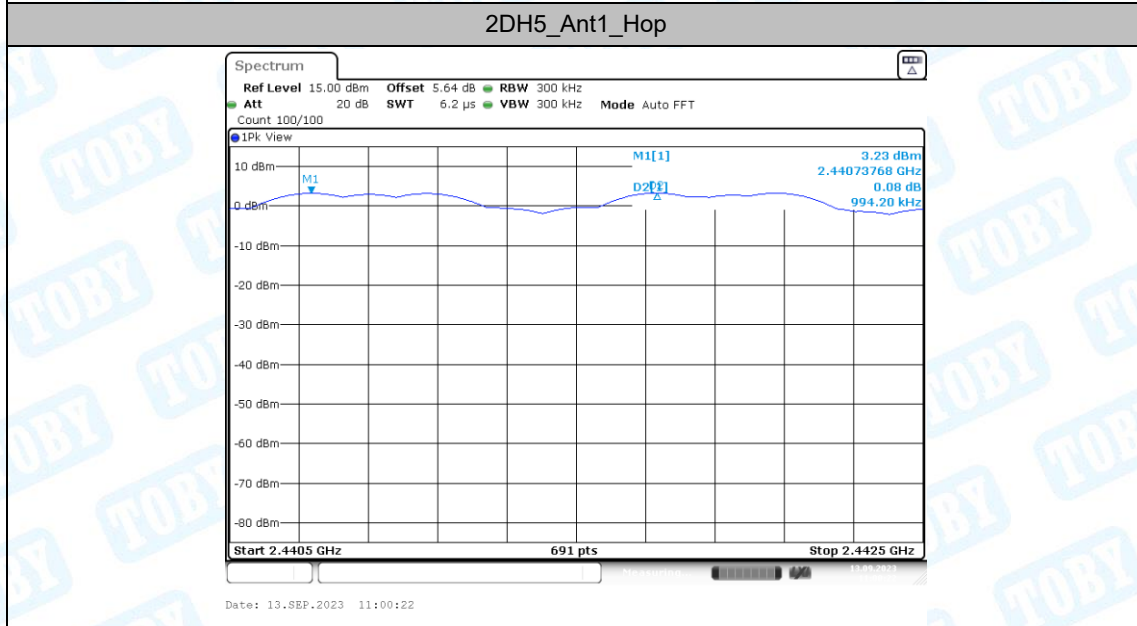
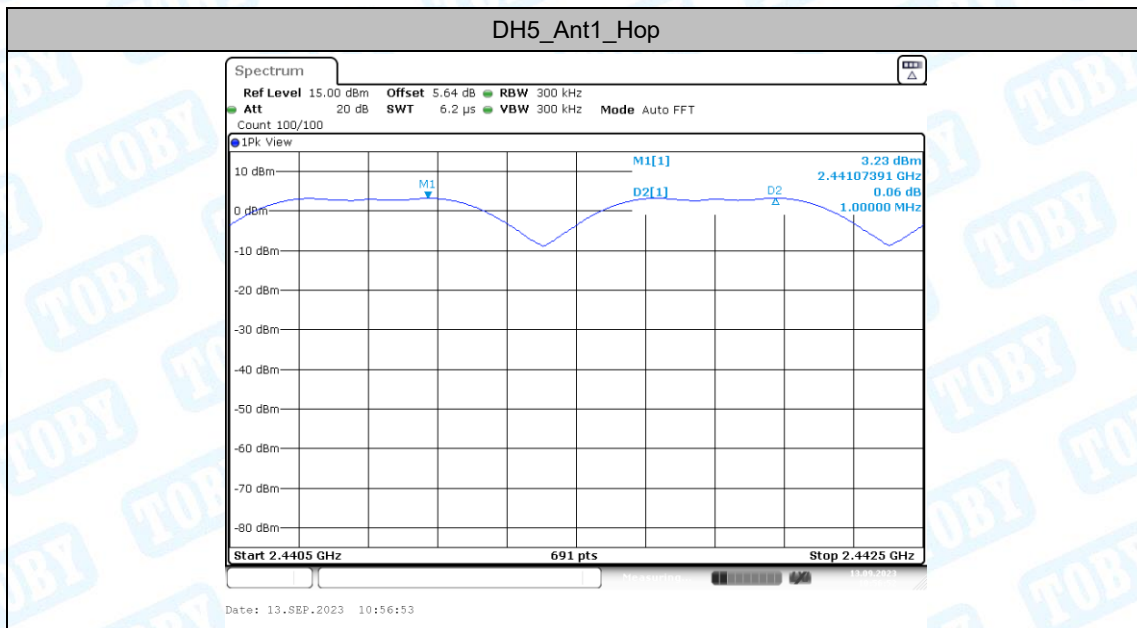


## 4. Carrier frequency separation

### 4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	$\geq 0.713$	PASS
2DH5	Ant1	Hop	0.994	$\geq 0.880$	PASS
3DH5	Ant1	Hop	1.348	$\geq 0.873$	PASS

## 4.2. Test Graphs



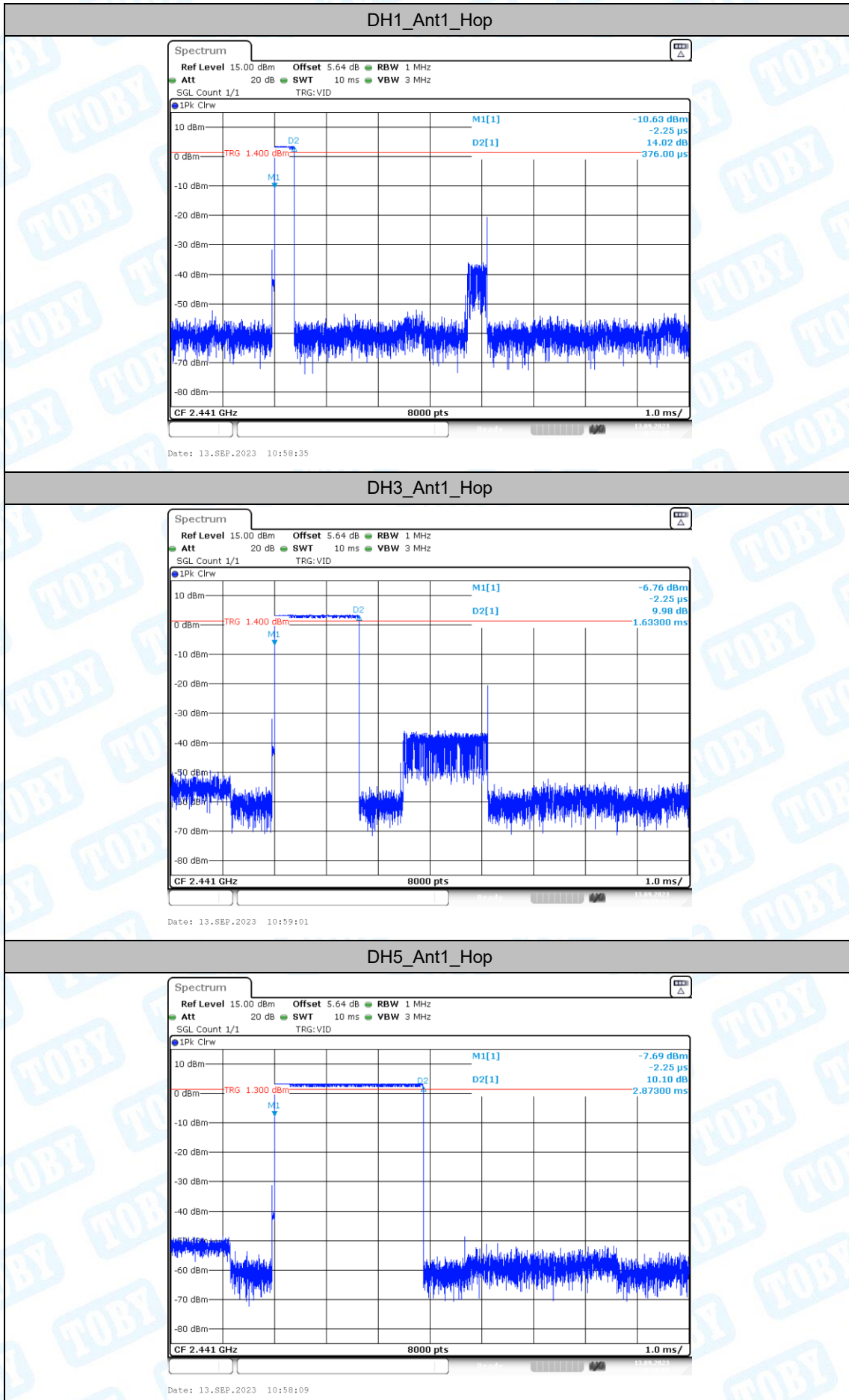


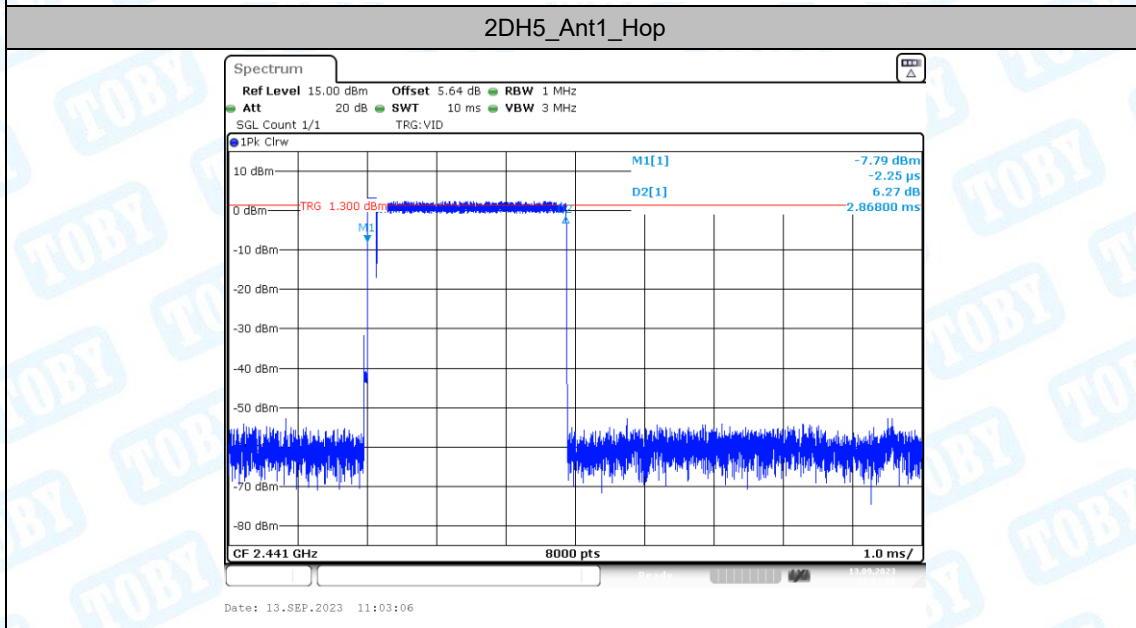
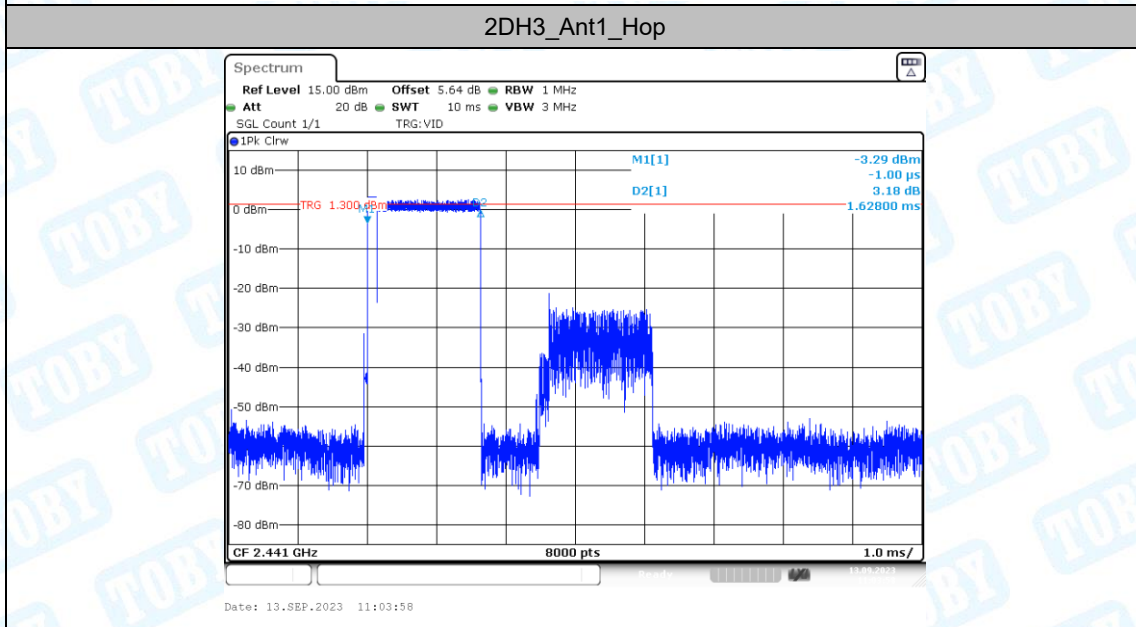
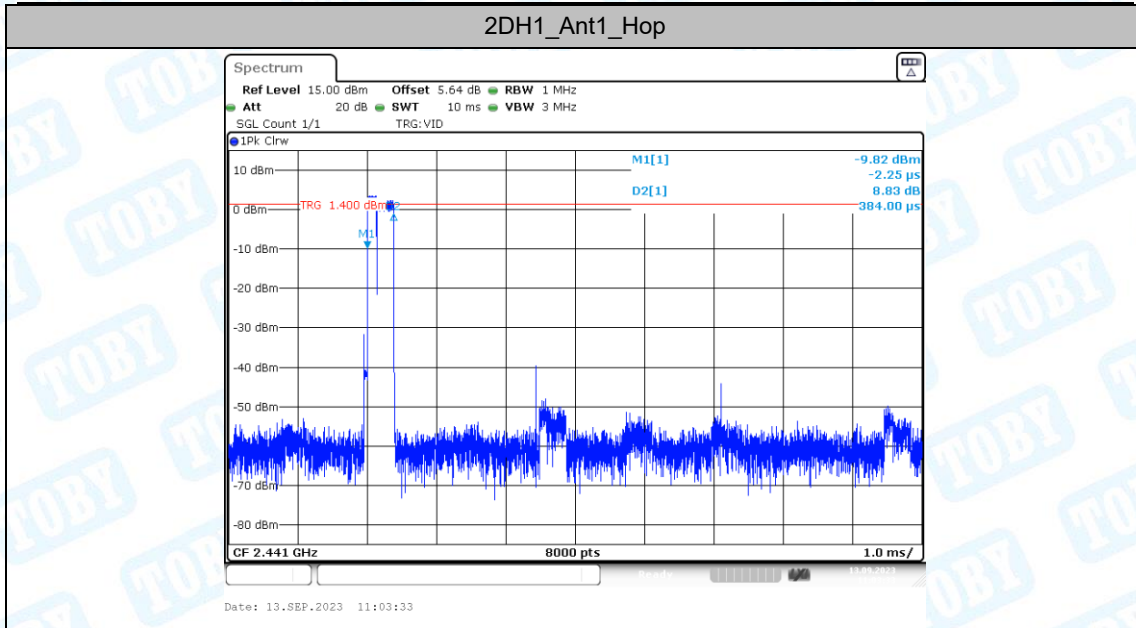
## 5. Time of occupancy

### 5.1. Test Result

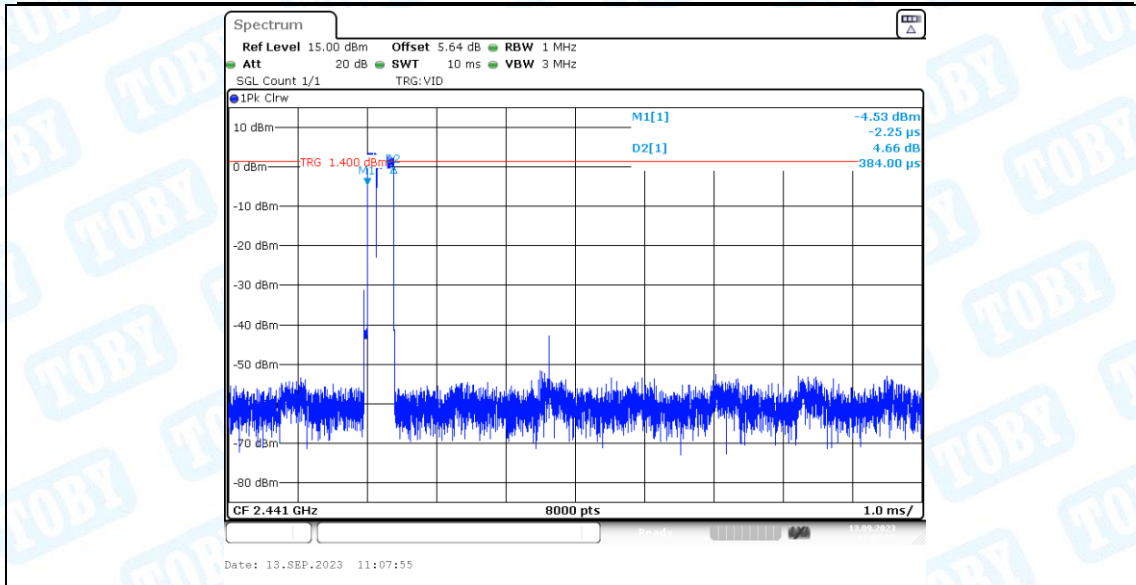
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.376	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.633	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.873	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.628	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.868	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.625	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.869	106.67	0.306	≤0.4	PASS

## 5.2. Test Graphs

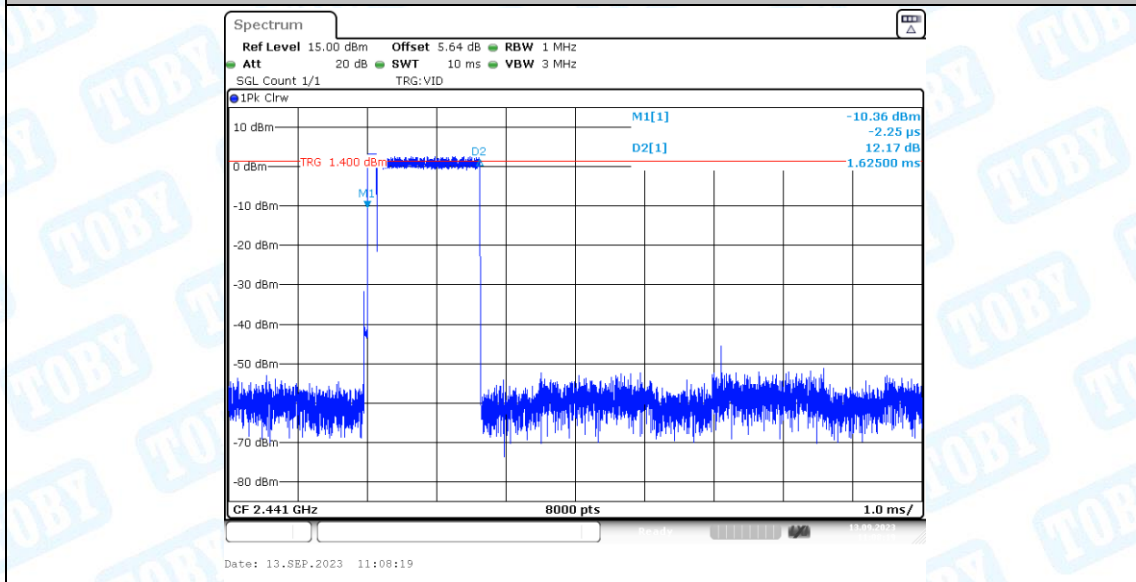




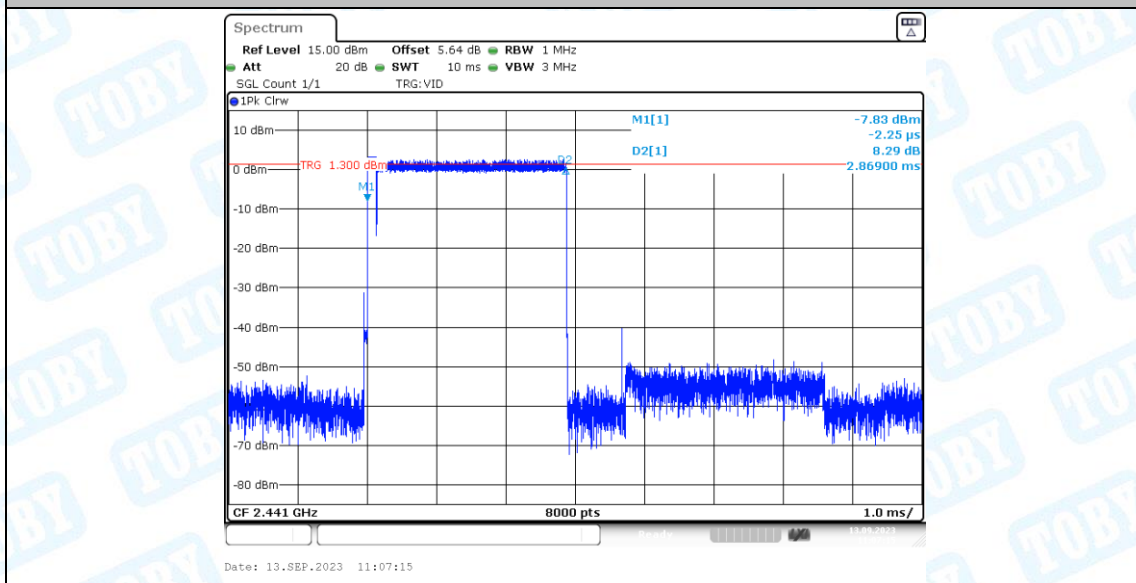
### 3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop



3DH5\_Ant1\_Hop

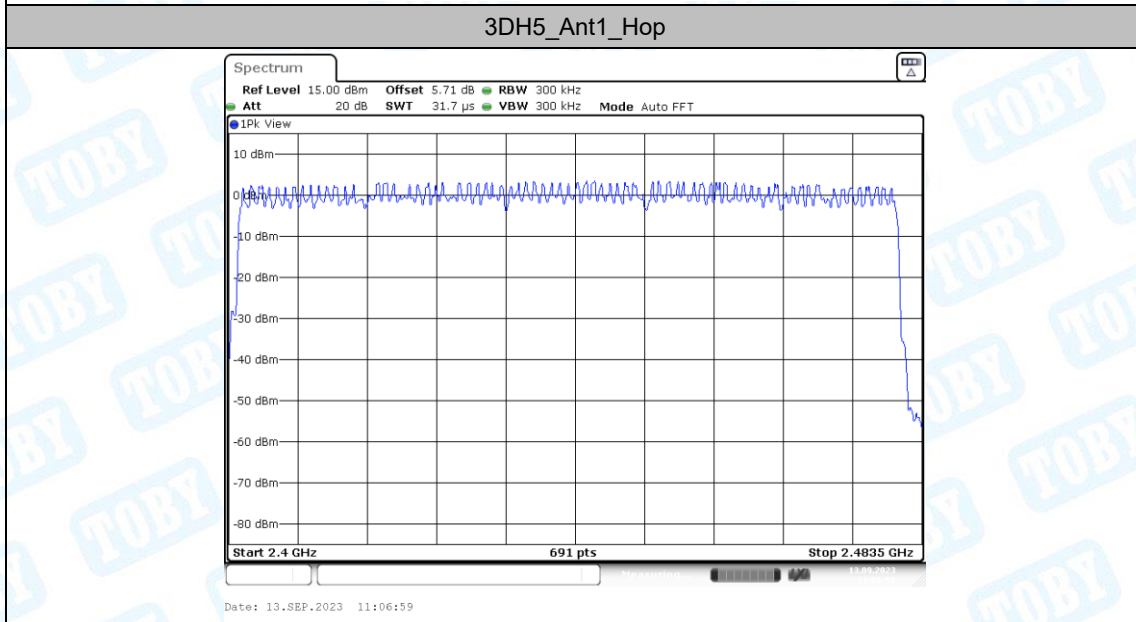
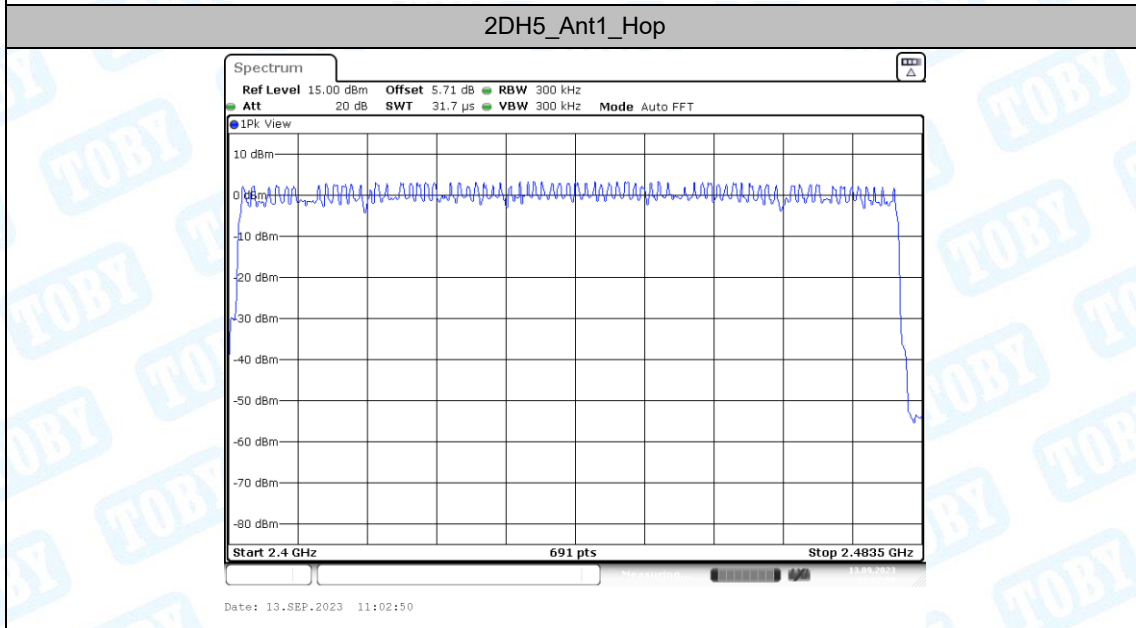
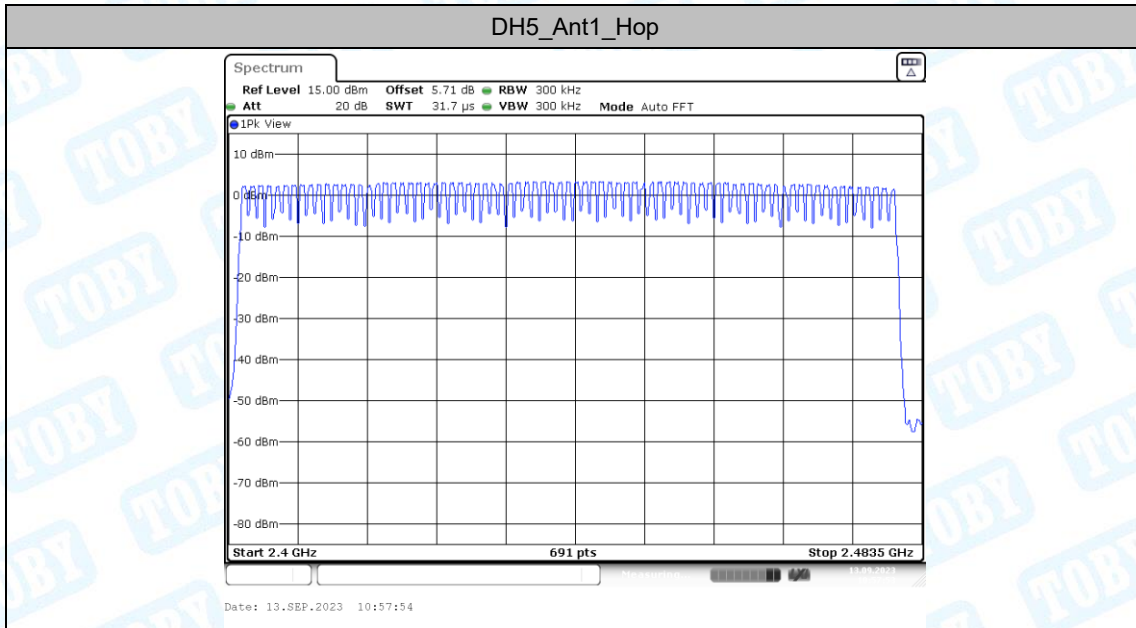


## 6. Number of hopping channels

### 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

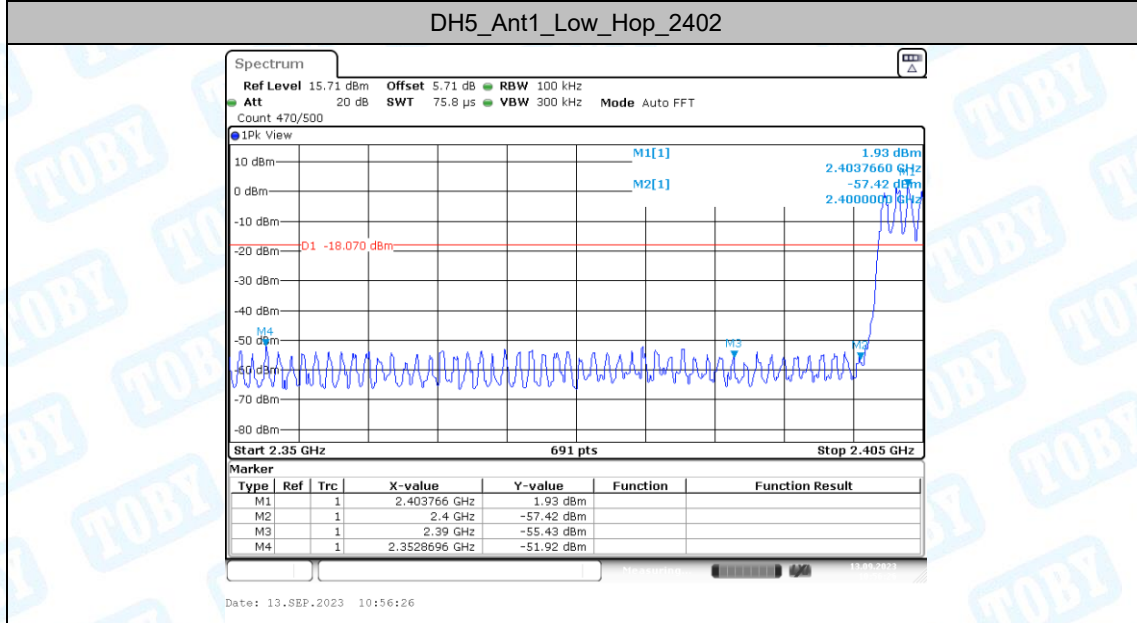
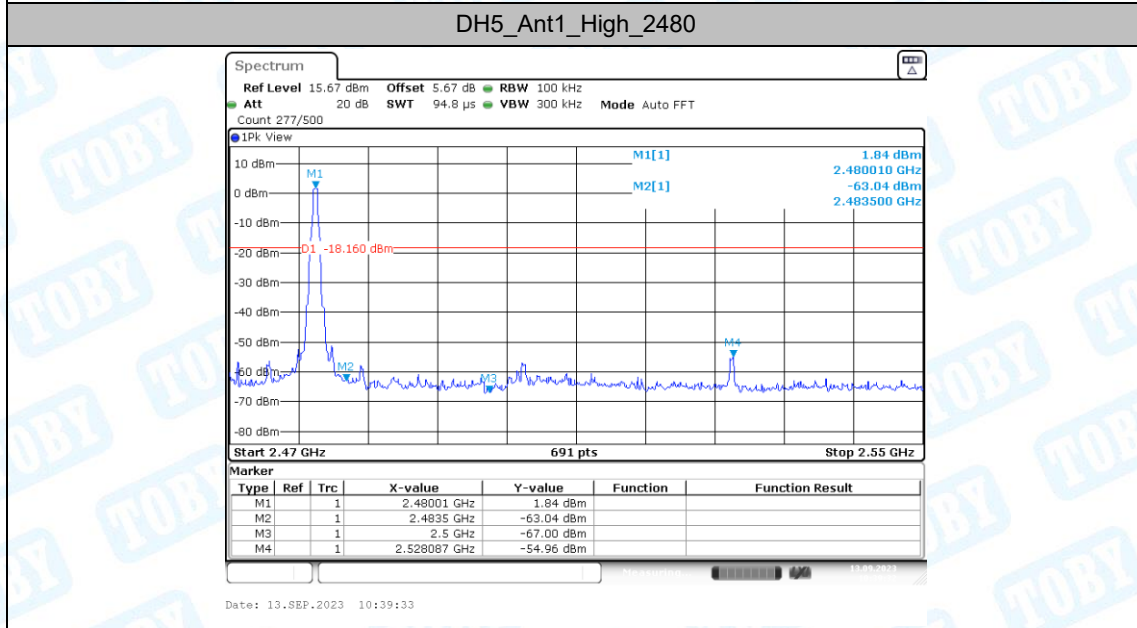
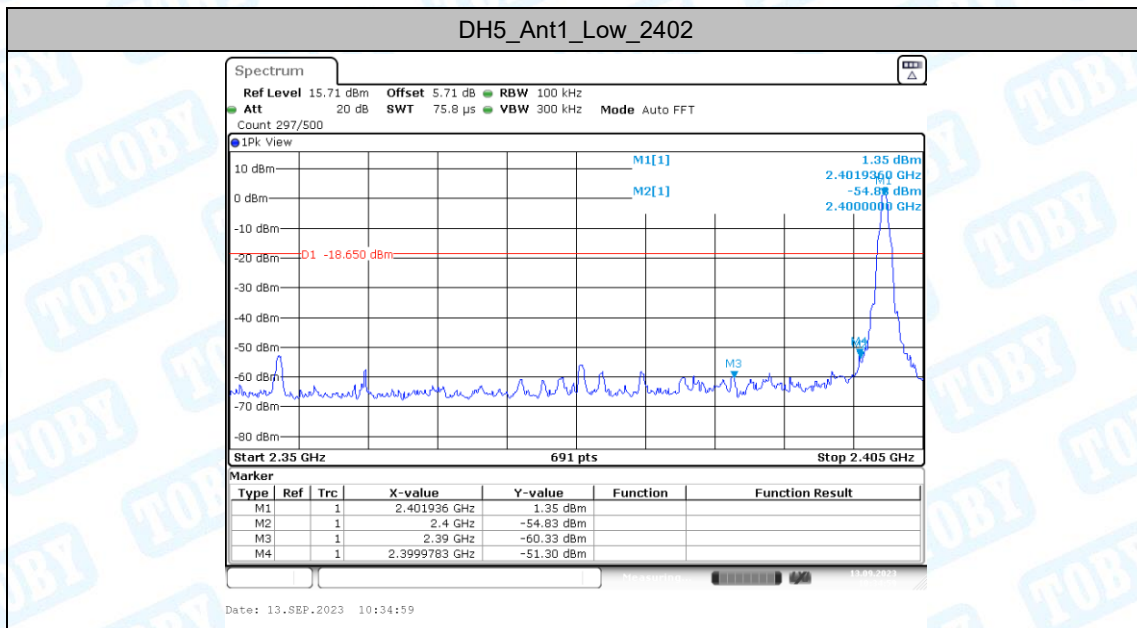


## 7. Band edge measurements

### 7.1. Test Result

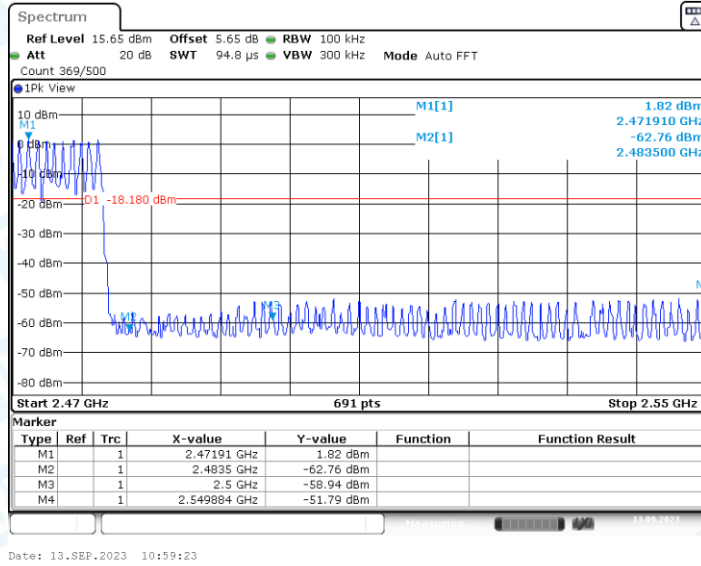
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.35	-51.3	≤-18.65	PASS
		High	2480	1.84	-54.96	≤-18.16	PASS
		Low	Hop_2402	1.93	-51.92	≤-18.07	PASS
		High	Hop_2480	1.82	-51.79	≤-18.18	PASS
2DH5	Ant1	Low	2402	2.12	-44.87	≤-17.88	PASS
		High	2480	1.76	-54.02	≤-18.24	PASS
		Low	Hop_2402	-4.19	-46.7	≤-24.19	PASS
		High	Hop_2480	1.29	-51.12	≤-18.71	PASS
3DH5	Ant1	Low	2402	1.96	-46.81	≤-18.04	PASS
		High	2480	1.94	-56.34	≤-18.06	PASS
		Low	Hop_2402	1.21	-45.78	≤-18.79	PASS
		High	Hop_2480	-0.91	-49.97	≤-20.91	PASS

## 7.2. Test Graphs

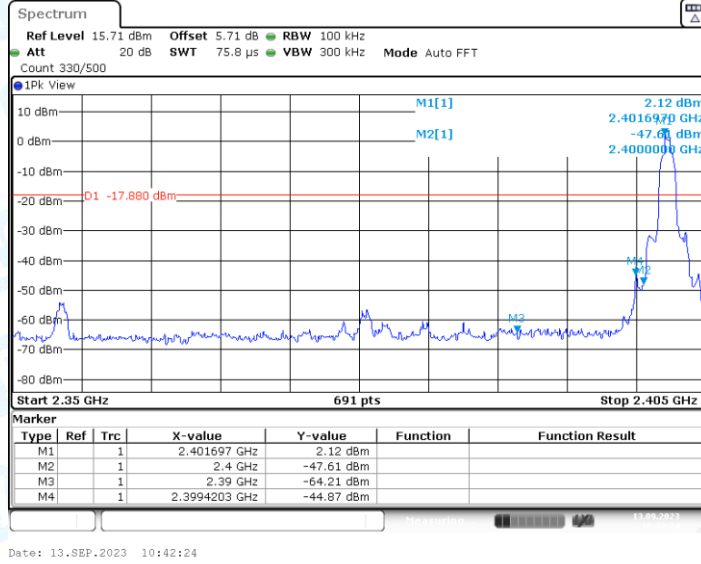




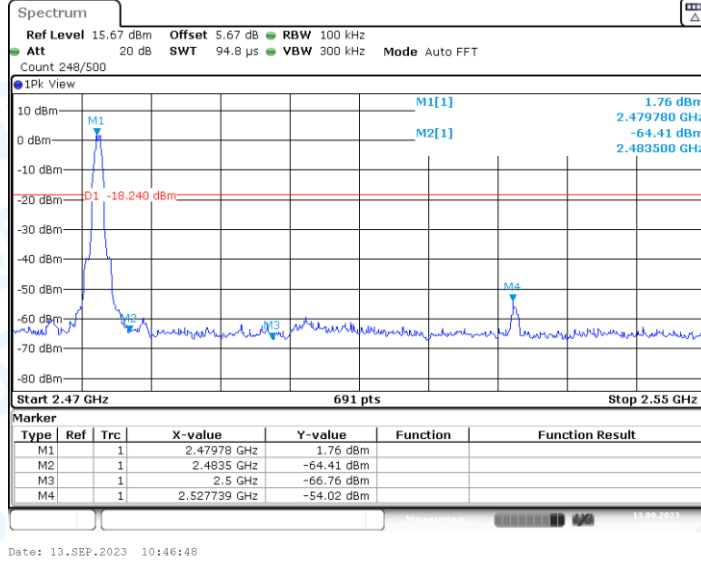
DH5\_Ant1\_High\_Hop\_2480



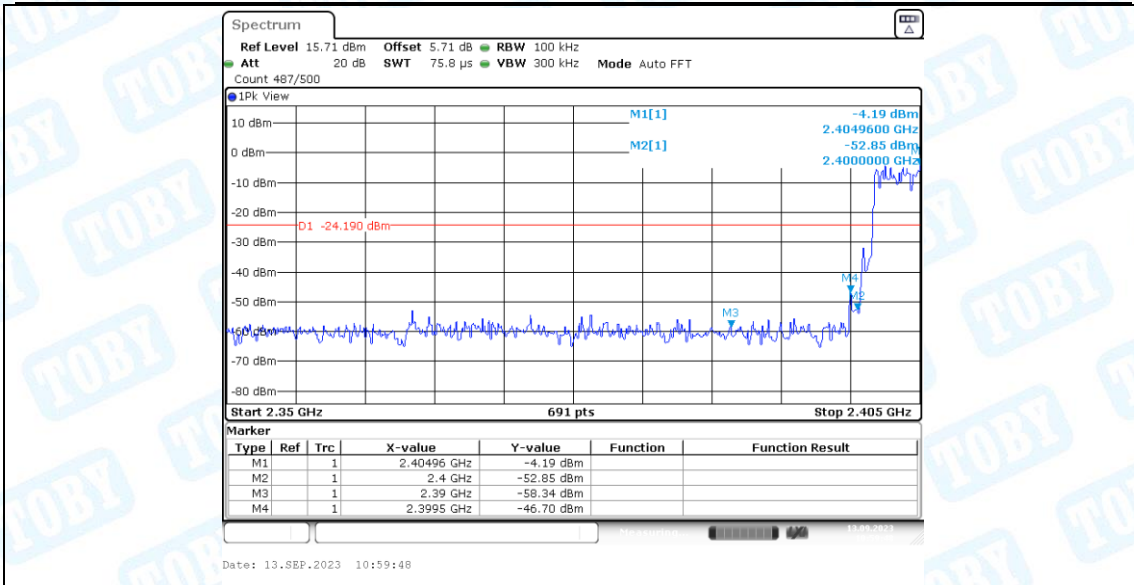
2DH5\_Ant1\_Low\_2402



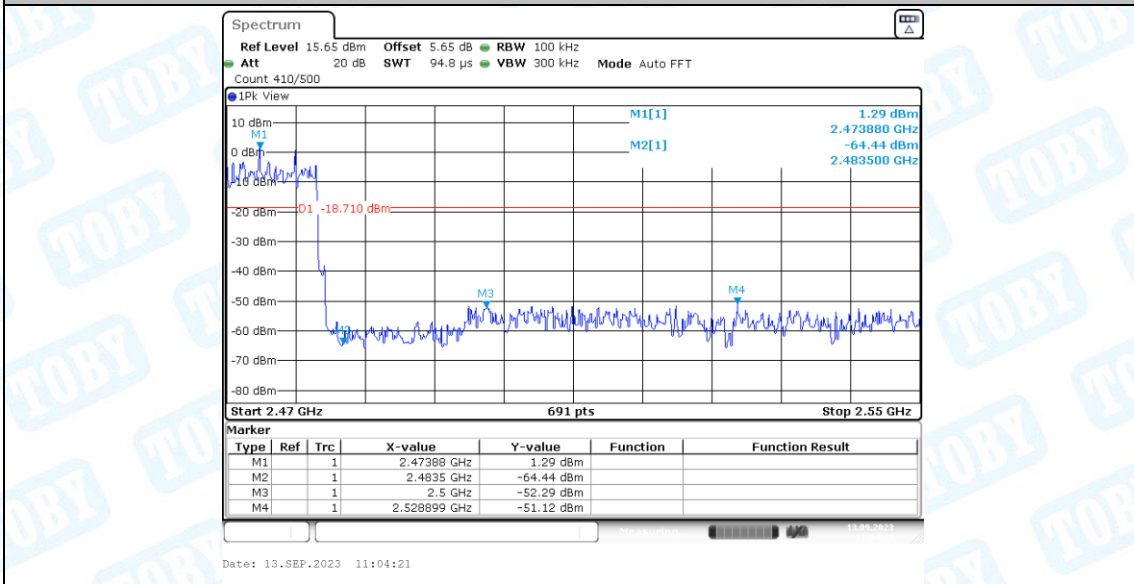
2DH5\_Ant1\_High\_2480



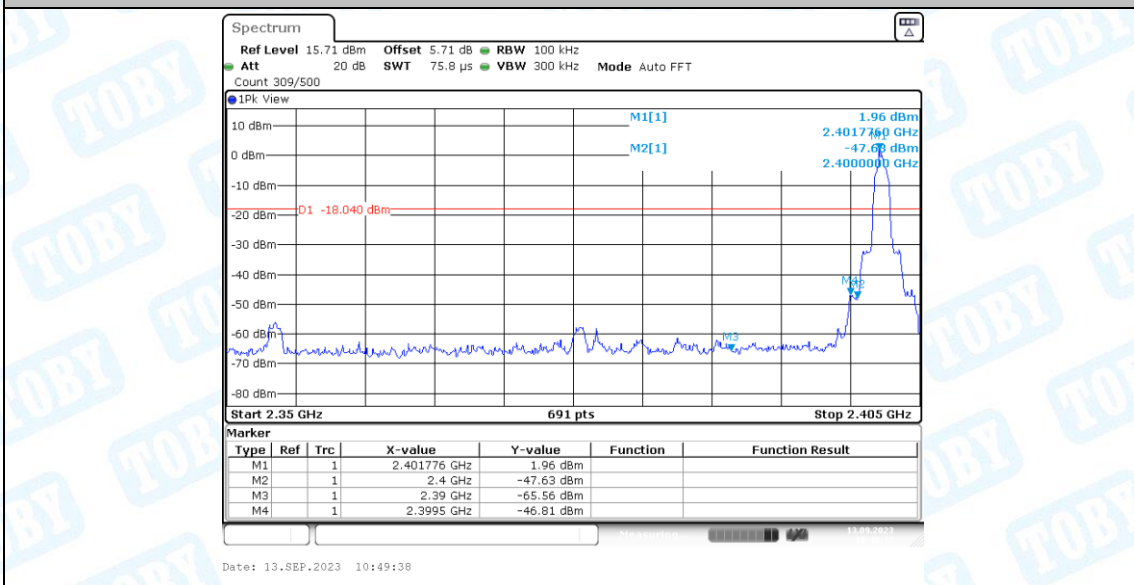
2DH5\_Ant1\_Low\_Hop\_2402



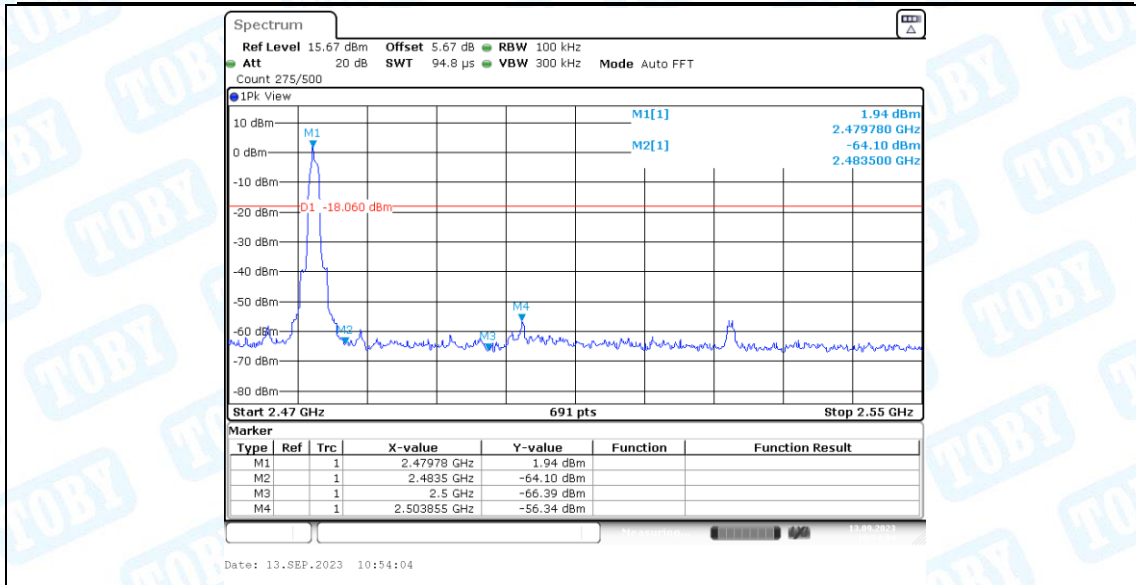
2DH5\_Ant1\_High\_Hop\_2480



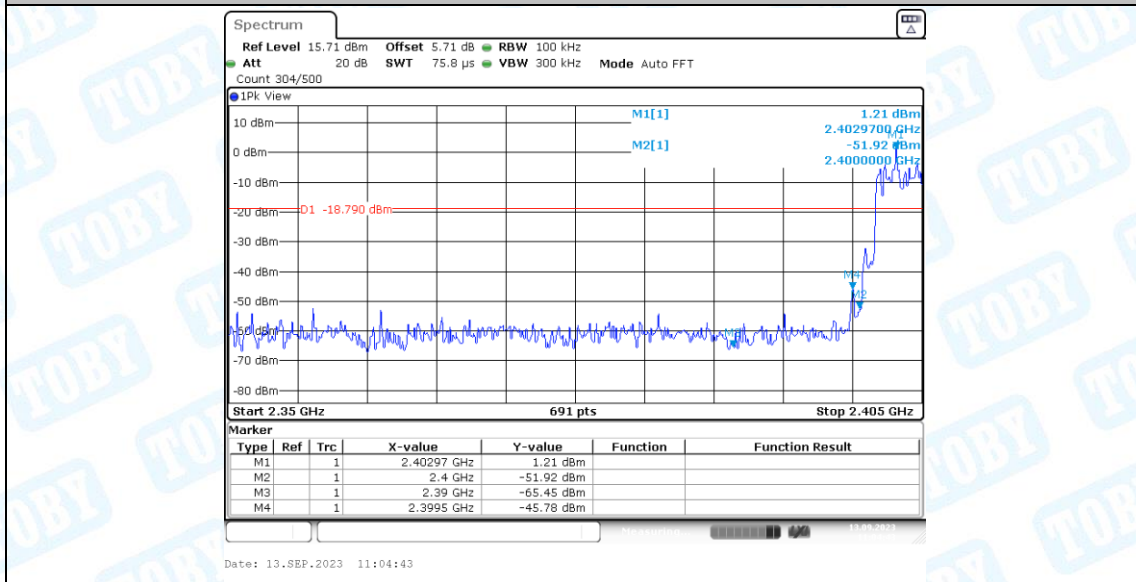
3DH5\_Ant1\_Low\_2402



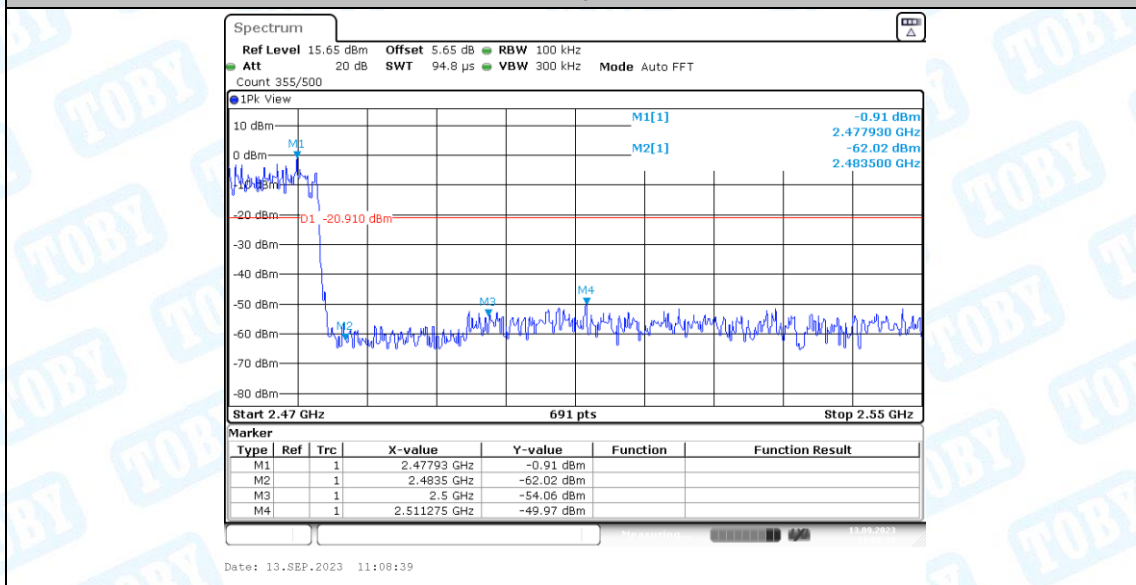
3DH5\_Ant1\_High\_2480



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	1.99	1.99	---	PASS
			30~1000	1.99	-43.84	≤-18.01	PASS
			1000~26500	1.99	-34.46	≤-18.01	PASS
		2441	Reference	3.18	3.18	---	PASS
			30~1000	3.18	-42.73	≤-16.82	PASS
			1000~26500	3.18	-29.47	≤-16.82	PASS
		2480	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-44.59	≤-18.16	PASS
			1000~26500	1.84	-41.1	≤-18.16	PASS
2DH5	Ant1	2402	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-46.53	≤-17.89	PASS
			1000~26500	2.11	-35.21	≤-17.89	PASS
		2441	Reference	3.18	3.18	---	PASS
			30~1000	3.18	-46.06	≤-16.82	PASS
			1000~26500	3.18	-47.63	≤-16.82	PASS
		2480	Reference	1.87	1.87	---	PASS
			30~1000	1.87	-47.76	≤-18.13	PASS
			1000~26500	1.87	-45.1	≤-18.13	PASS
3DH5	Ant1	2402	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-43.03	≤-17.89	PASS
			1000~26500	2.11	-34.74	≤-17.89	PASS
		2441	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-45.41	≤-16.75	PASS
			1000~26500	3.25	-36.56	≤-16.75	PASS
		2480	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-40.03	≤-18.21	PASS
			1000~26500	1.79	-48.79	≤-18.21	PASS

## 8.2. Test Graphs

