

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

General Description of EUT	
Product Name:	7" Tablet
Test Model:	100135924
Sample ID:	202311-0360-3-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.85V
Test Engineer:	Yan zhen ming
Note: For a more detailed features description, please refer to the report TBR-C-202311-0360-31	

## Contents

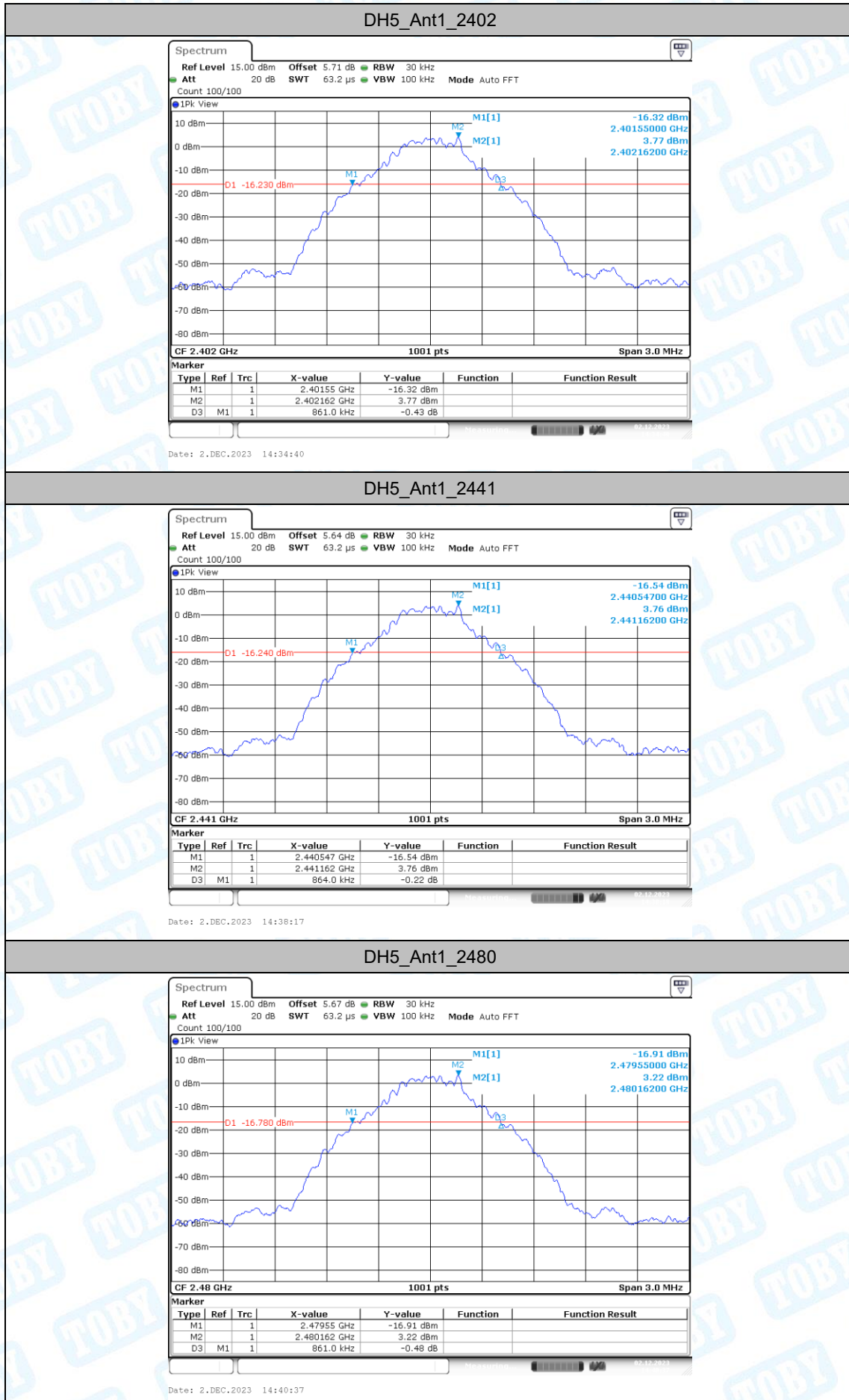
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## 1. 20dB Emission Bandwidth

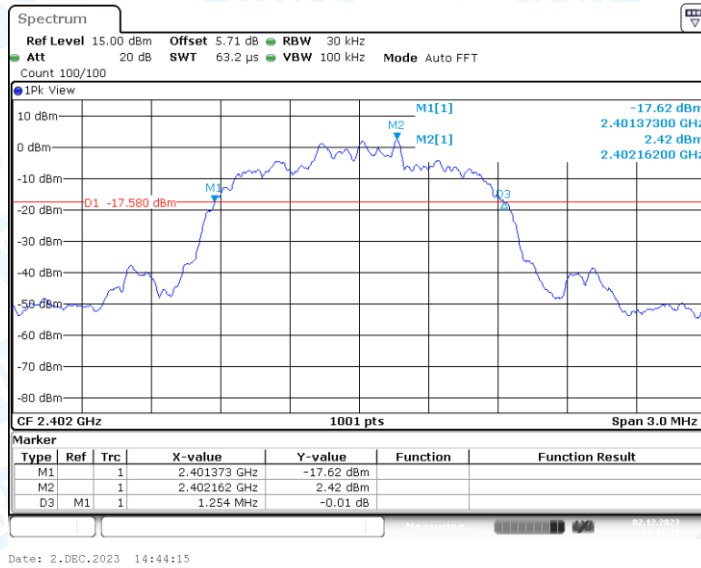
### 1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	---	---
		2441	0.86	---	---
		2480	0.86	---	---
2DH5	Ant1	2402	1.25	---	---
		2441	1.26	---	---
		2480	1.26	---	---
3DH5	Ant1	2402	1.25	---	---
		2441	1.27	---	---
		2480	1.25	---	---

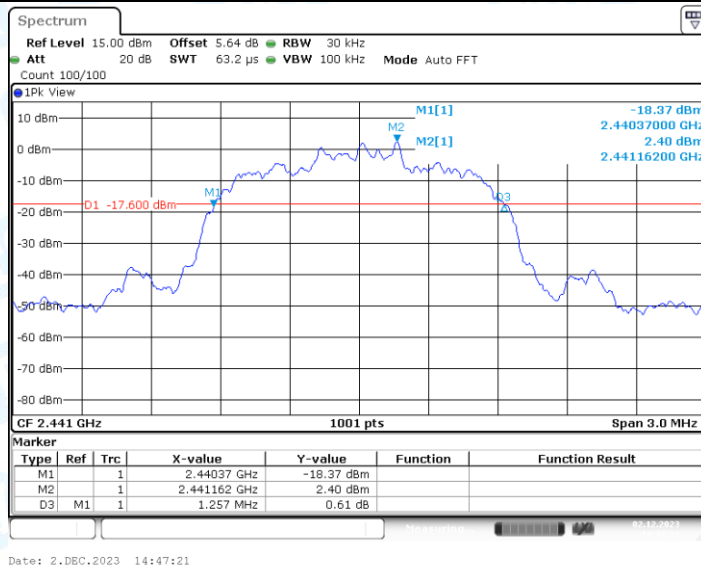
## 1.2. Test Graphs



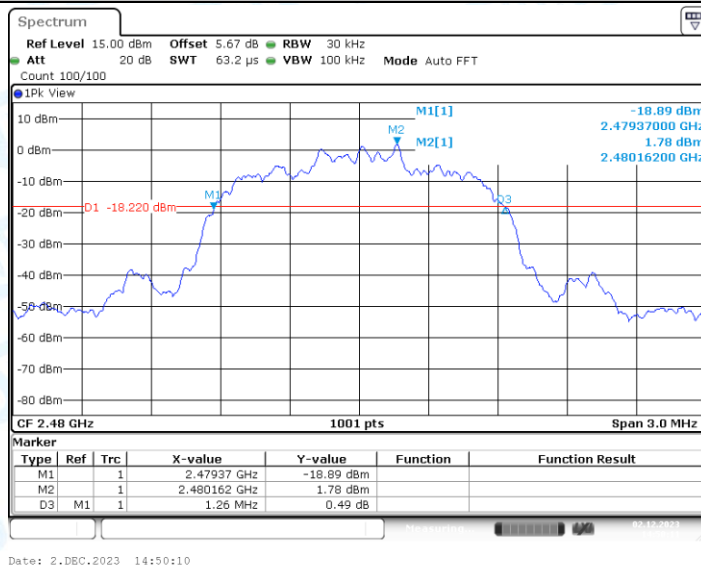
### 2DH5\_Ant1\_2402



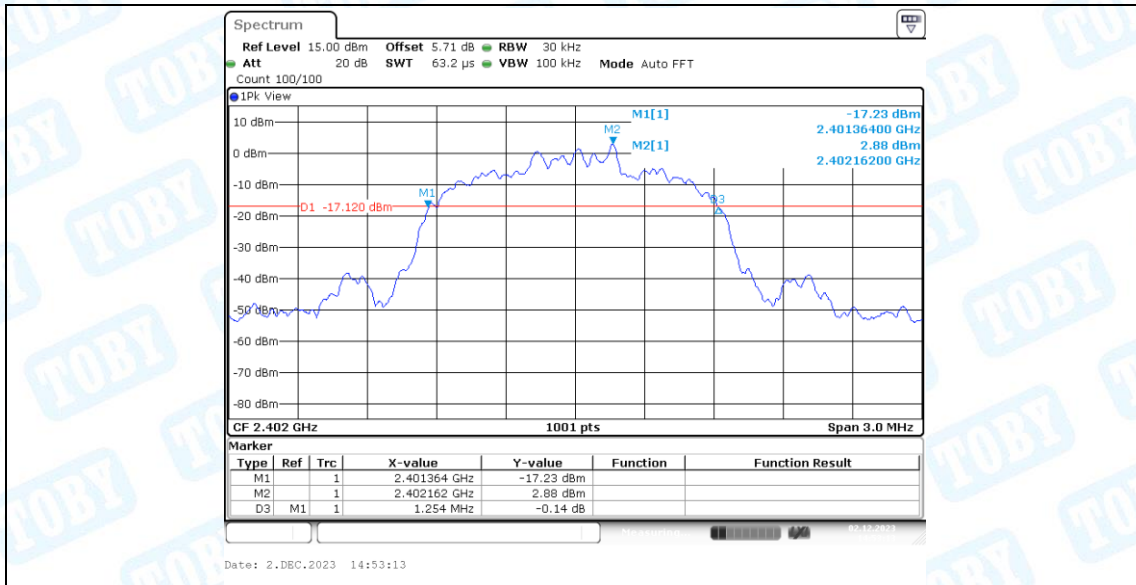
### 2DH5\_Ant1\_2441



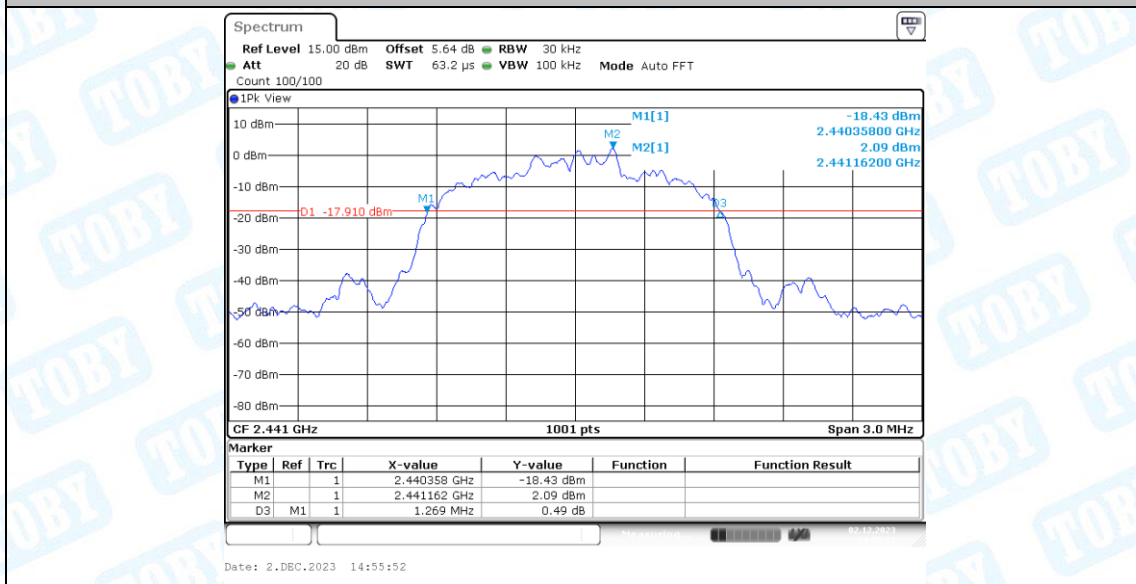
### 2DH5\_Ant1\_2480



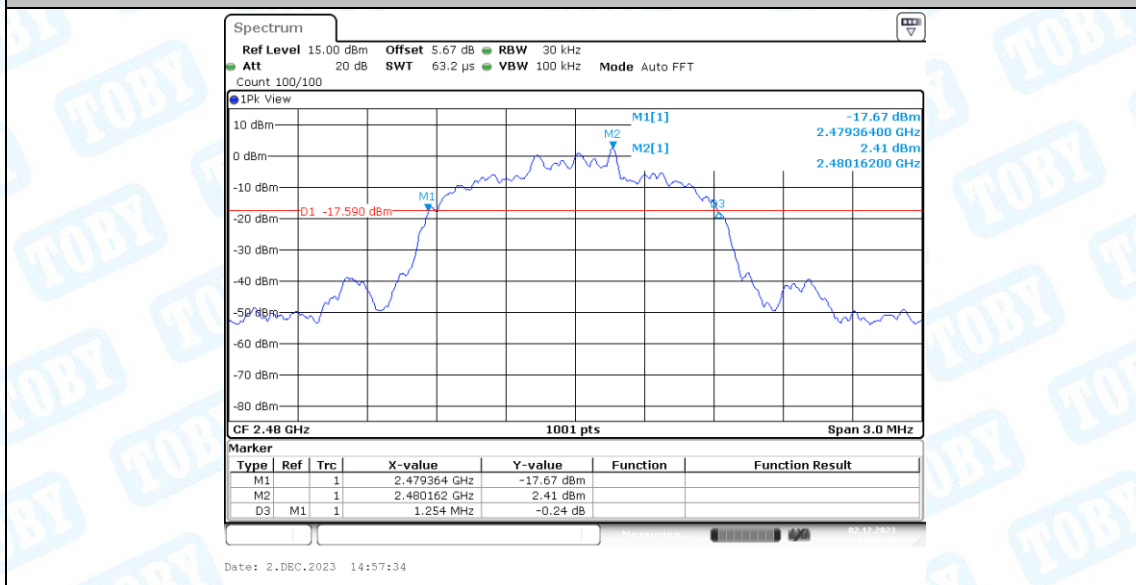
### 3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## 2. Occupied Channel Bandwidth

### 2.1. Test Result

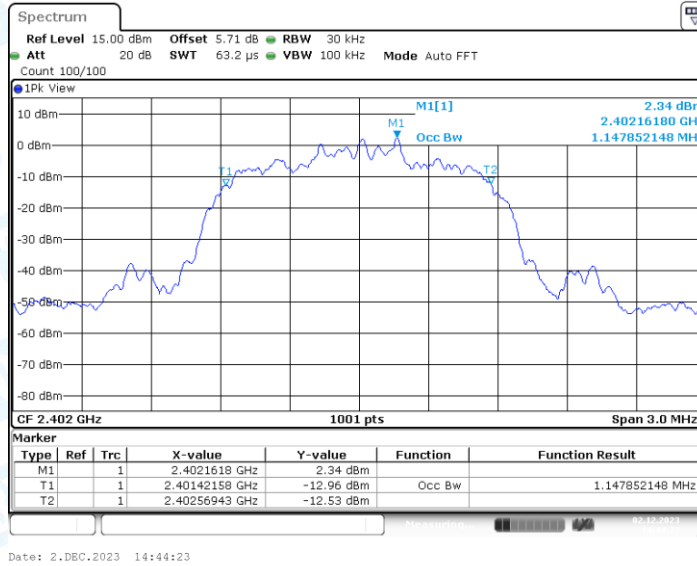
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.752	2401.6254	2402.3776	---	---
		2441	0.758	2440.6224	2441.3806	---	---
		2480	0.755	2479.6254	2480.3806	---	---
2DH5	Ant1	2402	1.148	2401.4216	2402.5694	---	---
		2441	1.148	2440.4216	2441.5694	---	---
		2480	1.151	2479.4216	2480.5724	---	---
3DH5	Ant1	2402	1.148	2401.4276	2402.5754	---	---
		2441	1.148	2440.4276	2441.5754	---	---
		2480	1.148	2479.4276	2480.5754	---	---

## 2.2. Test Graphs

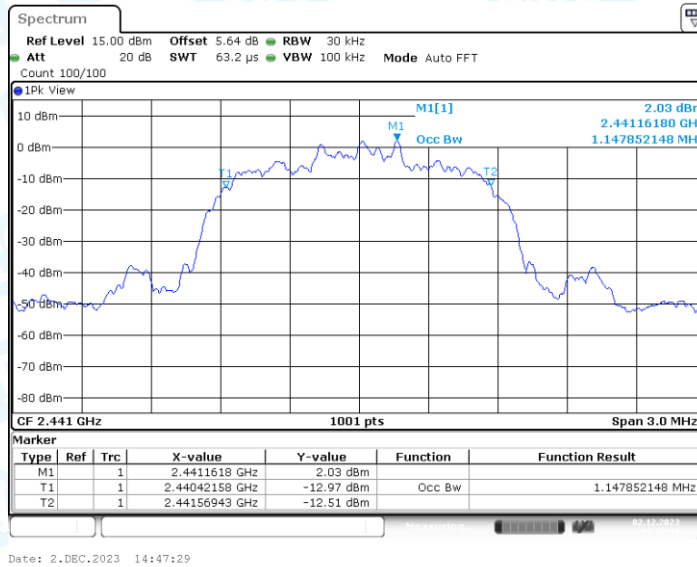




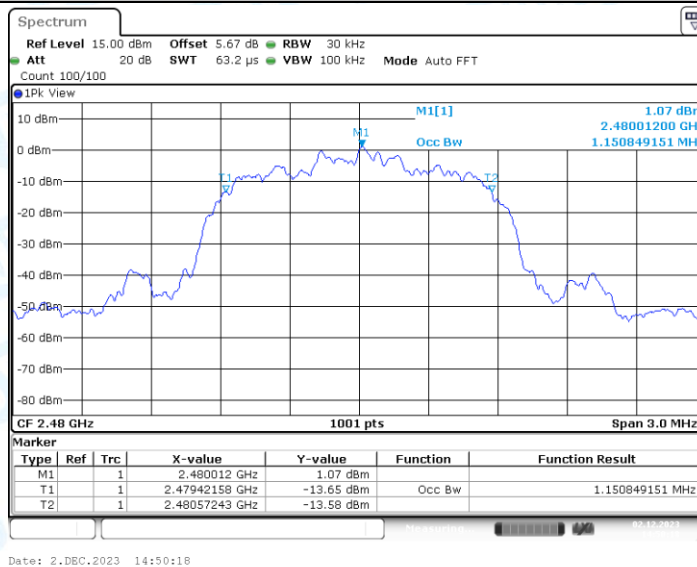
2DH5\_Ant1\_2402



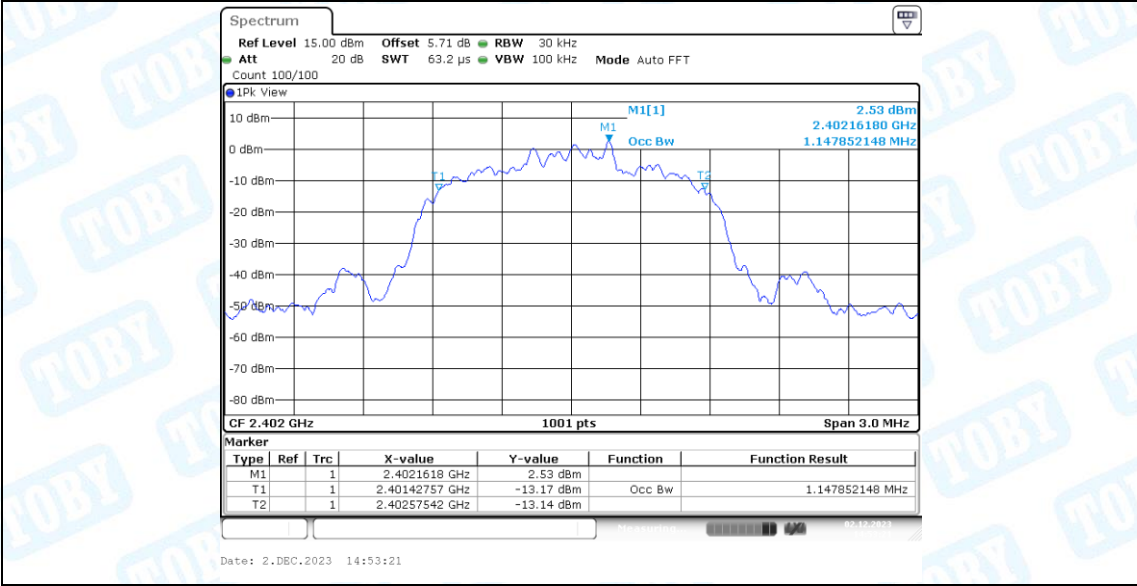
2DH5\_Ant1\_2441



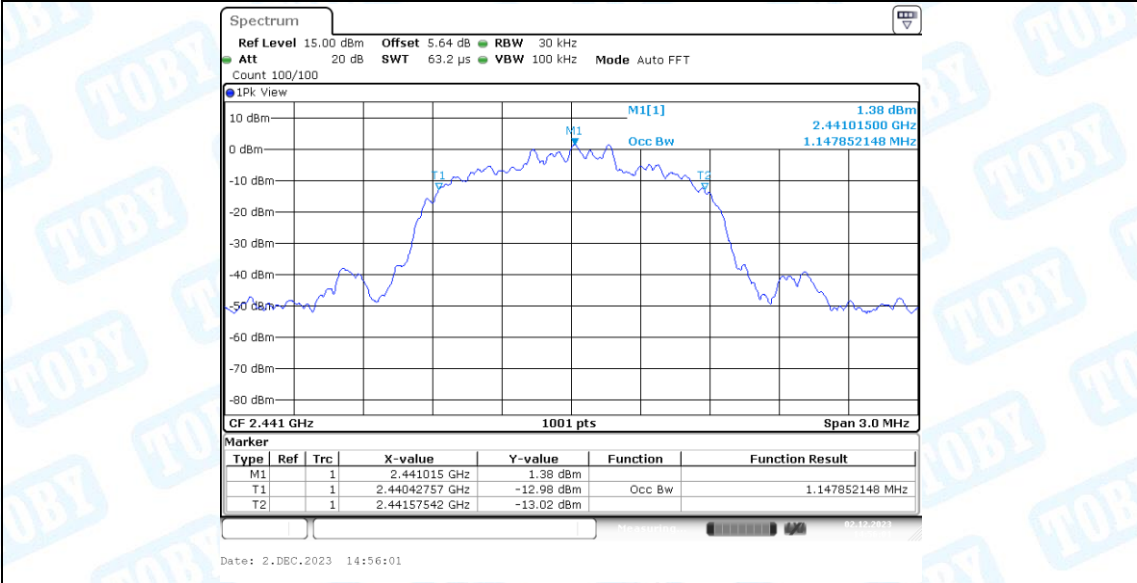
2DH5\_Ant1\_2480



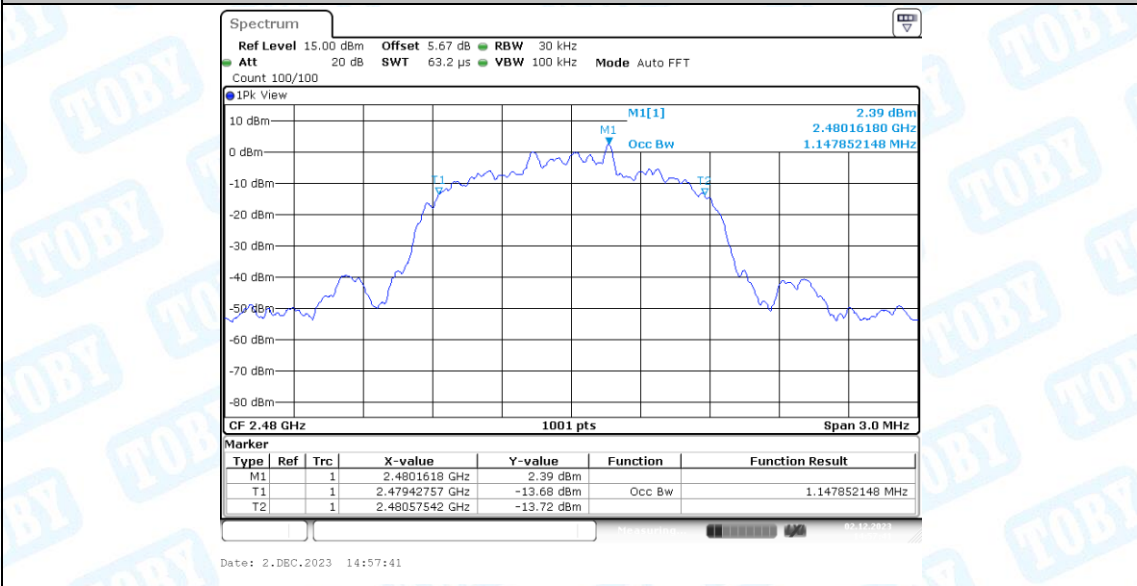
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

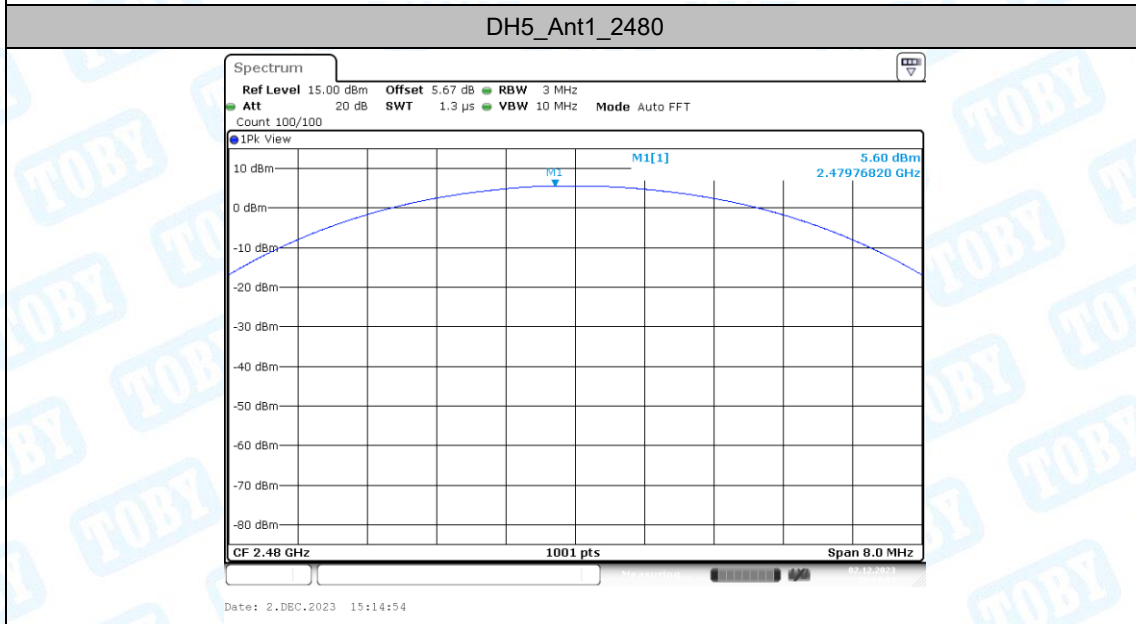
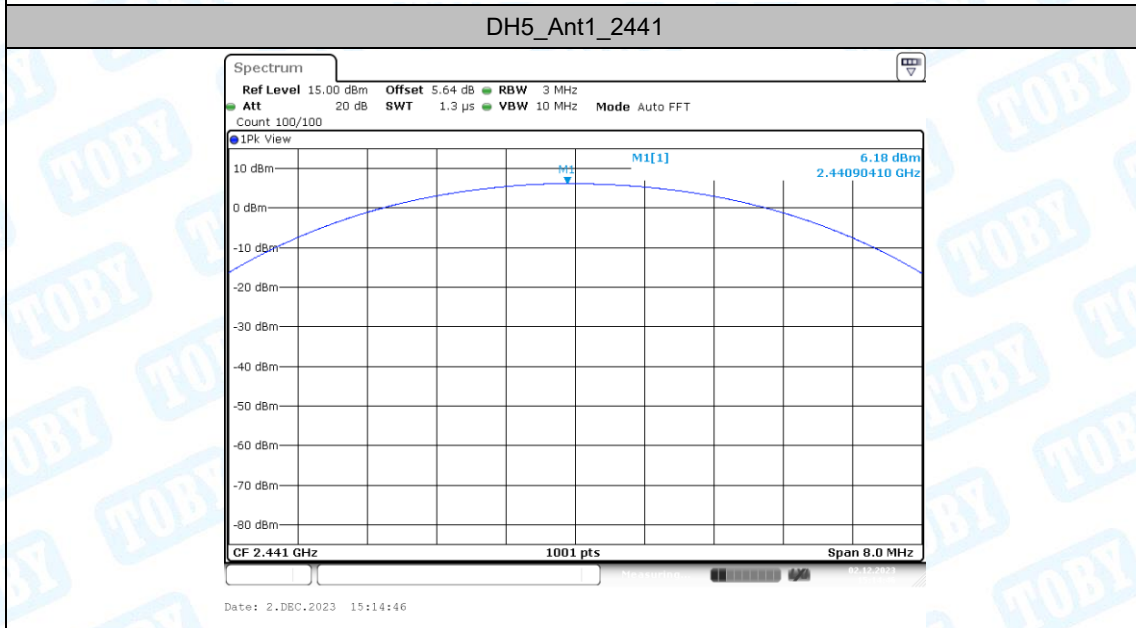
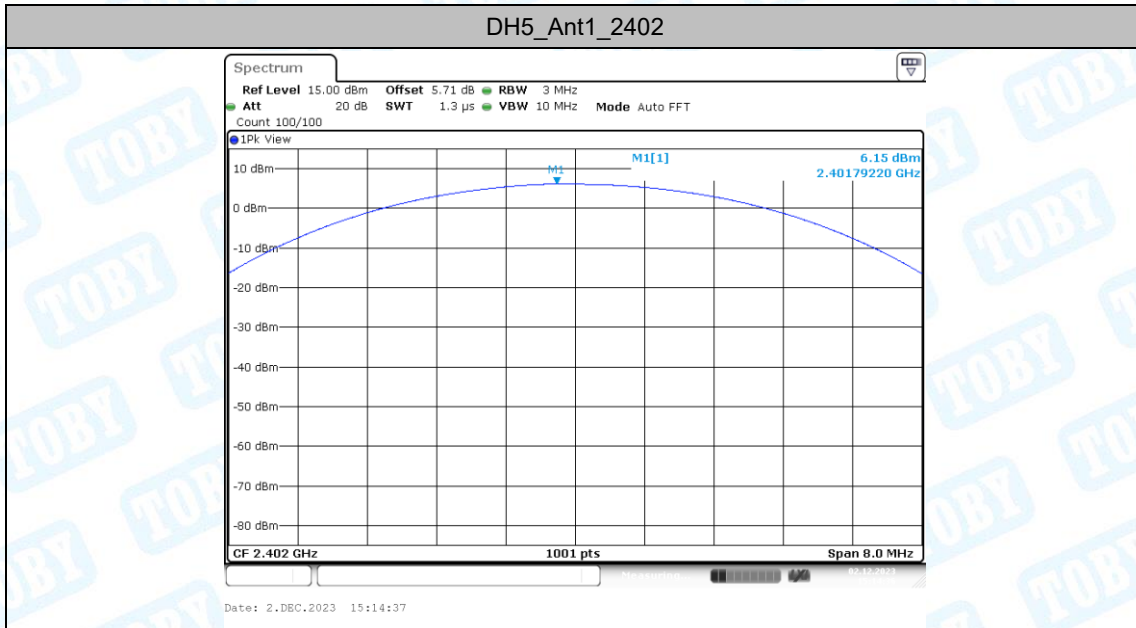


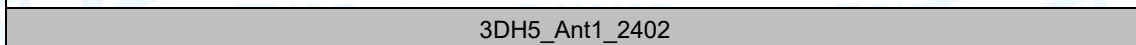
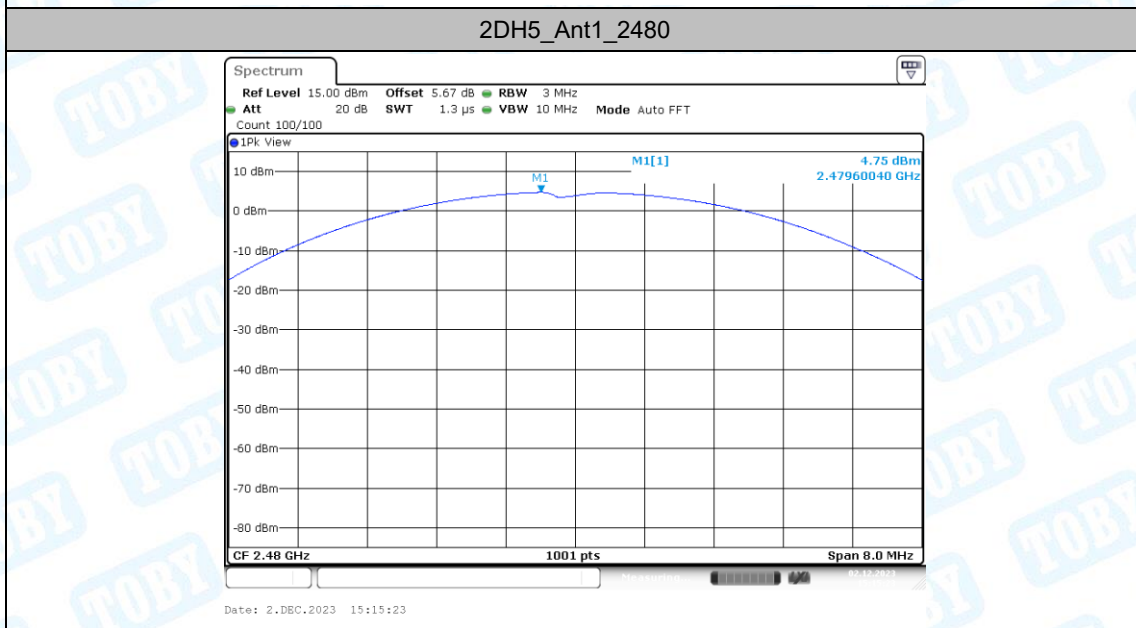
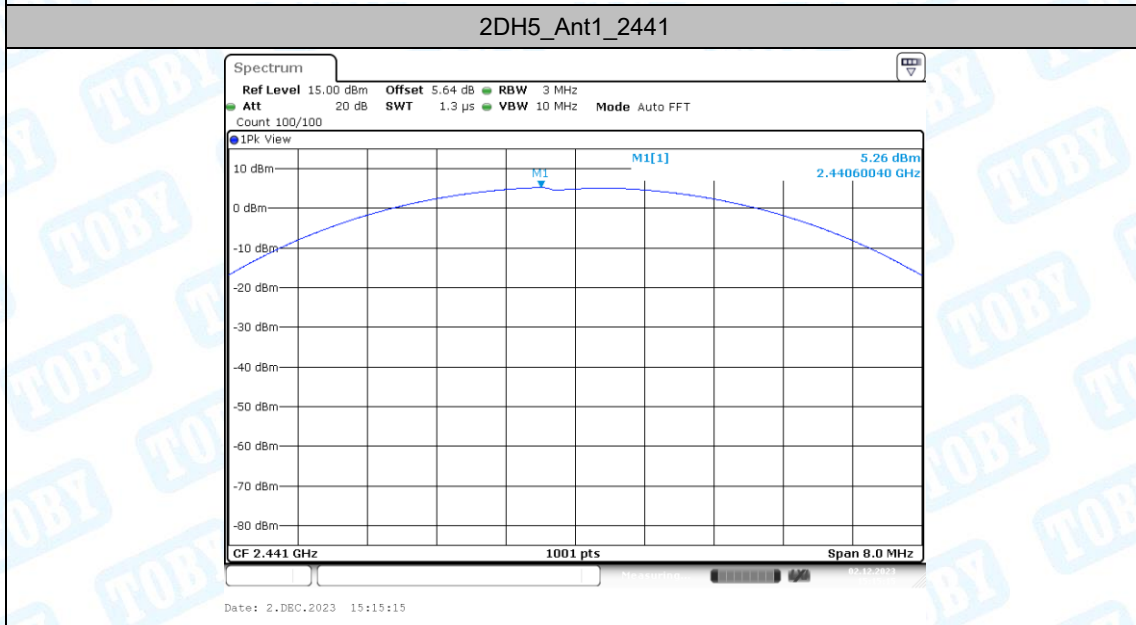
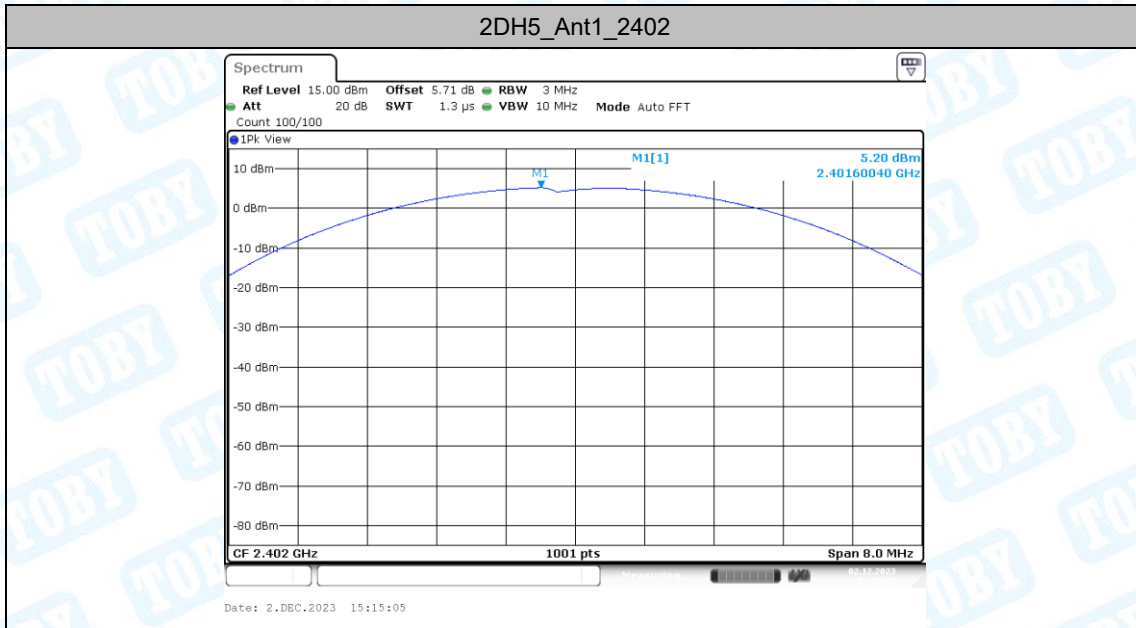
### 3. Maximum conducted output power

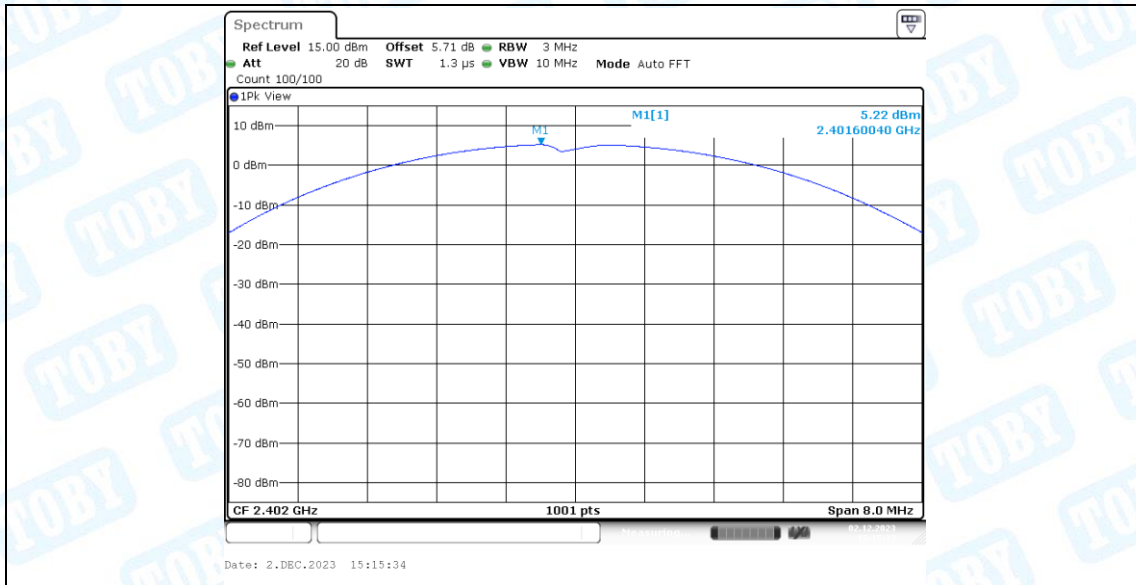
#### 3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	6.15	≤30	PASS
		2441	6.18	≤30	PASS
		2480	5.60	≤30	PASS
2DH5	Ant1	2402	5.20	≤20.97	PASS
		2441	5.26	≤20.97	PASS
		2480	4.75	≤20.97	PASS
3DH5	Ant1	2402	5.22	≤20.97	PASS
		2441	5.25	≤20.97	PASS
		2480	4.60	≤20.97	PASS

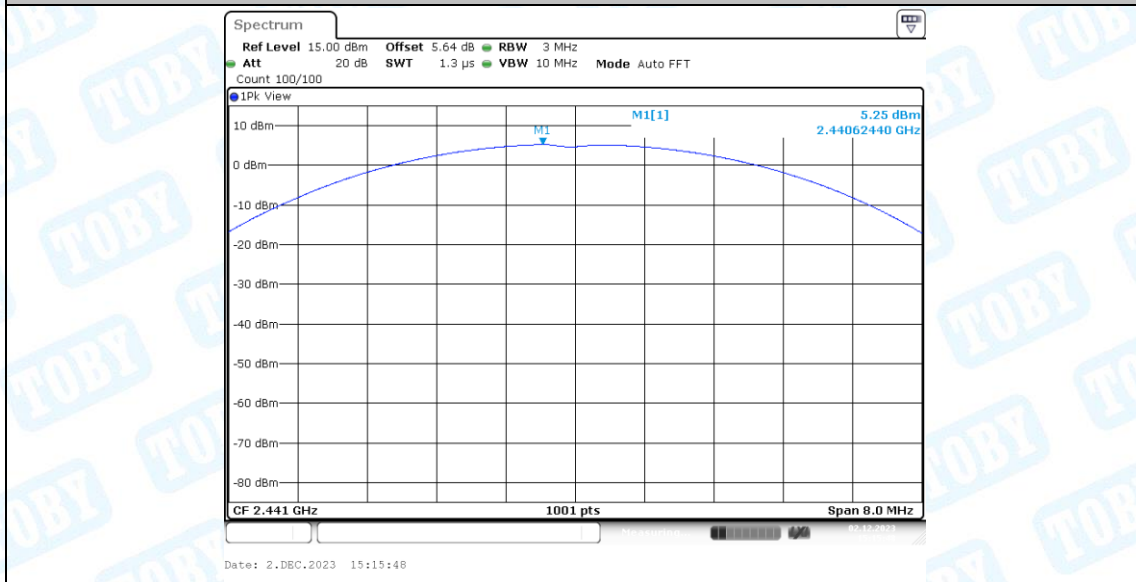
### 3.2. Test Graphs



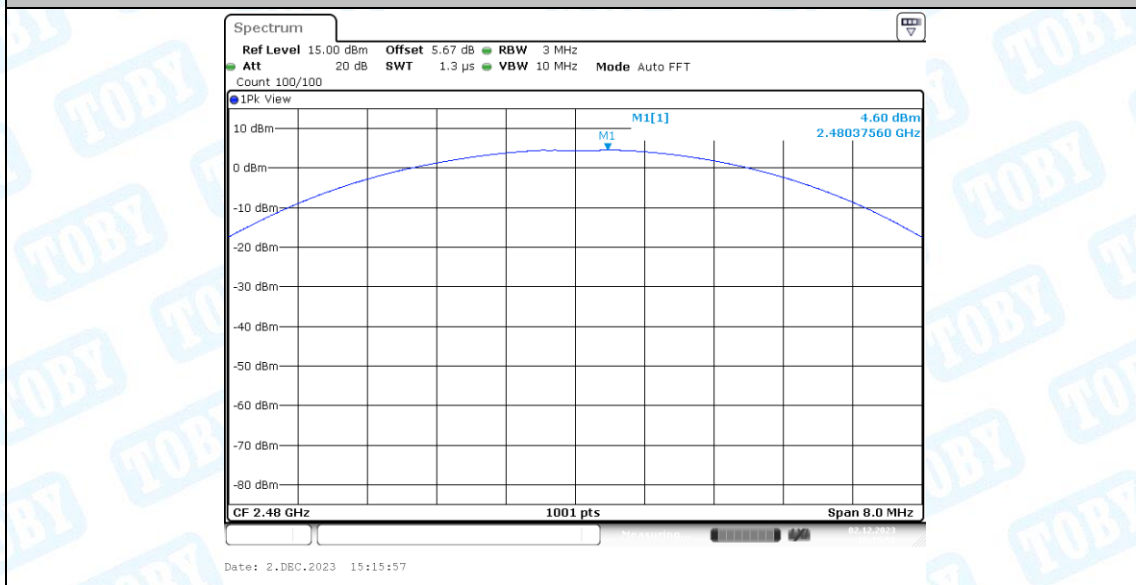




3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## 4. Carrier frequency separation

### 4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.003	≥0.860	PASS
2DH5	Ant1	Hop	0.997	≥0.840	PASS
3DH5	Ant1	Hop	0.893	≥0.847	PASS

### 4.2. Test Graphs



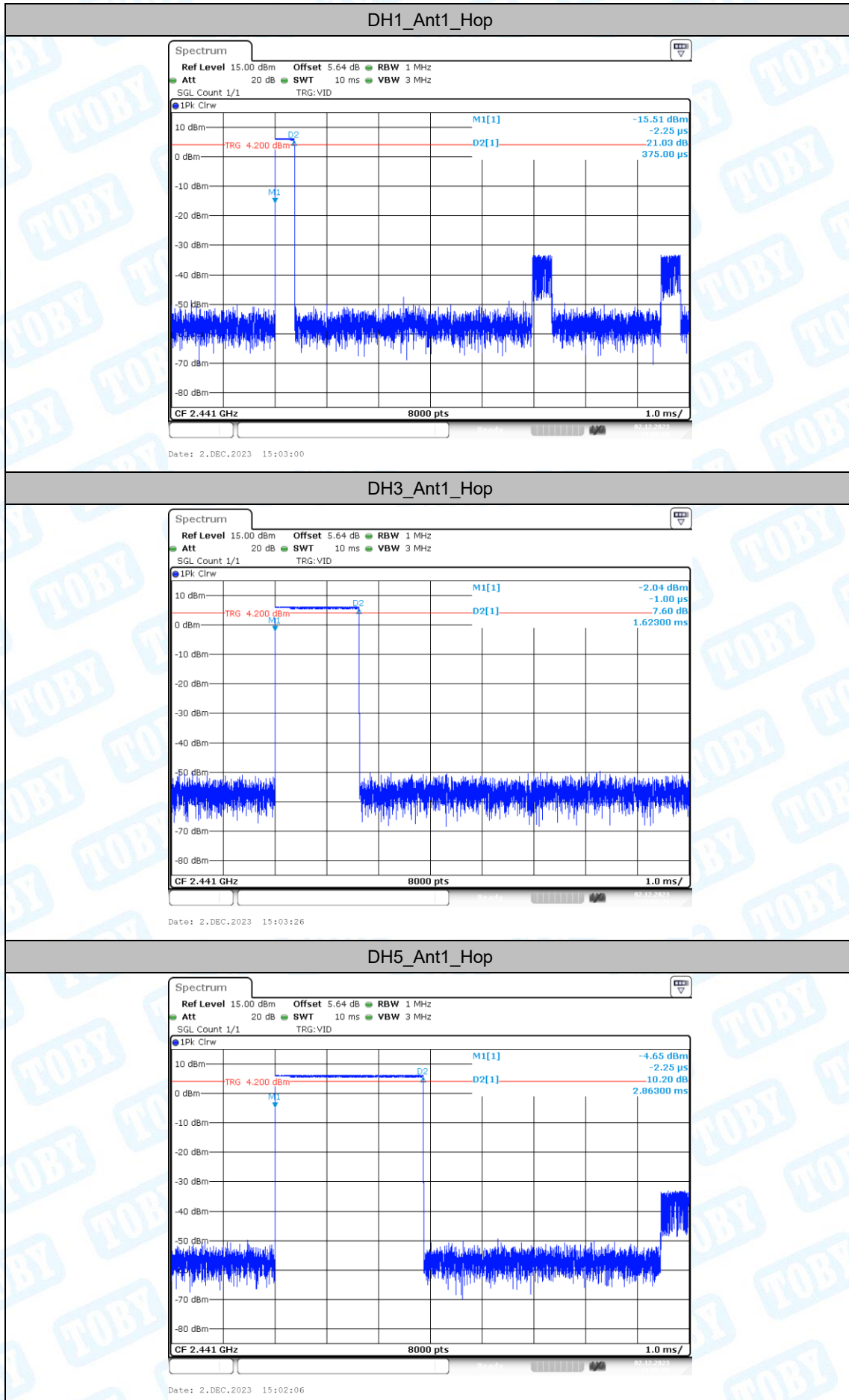


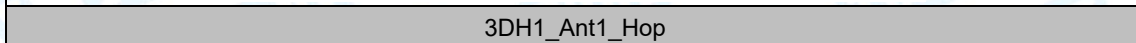
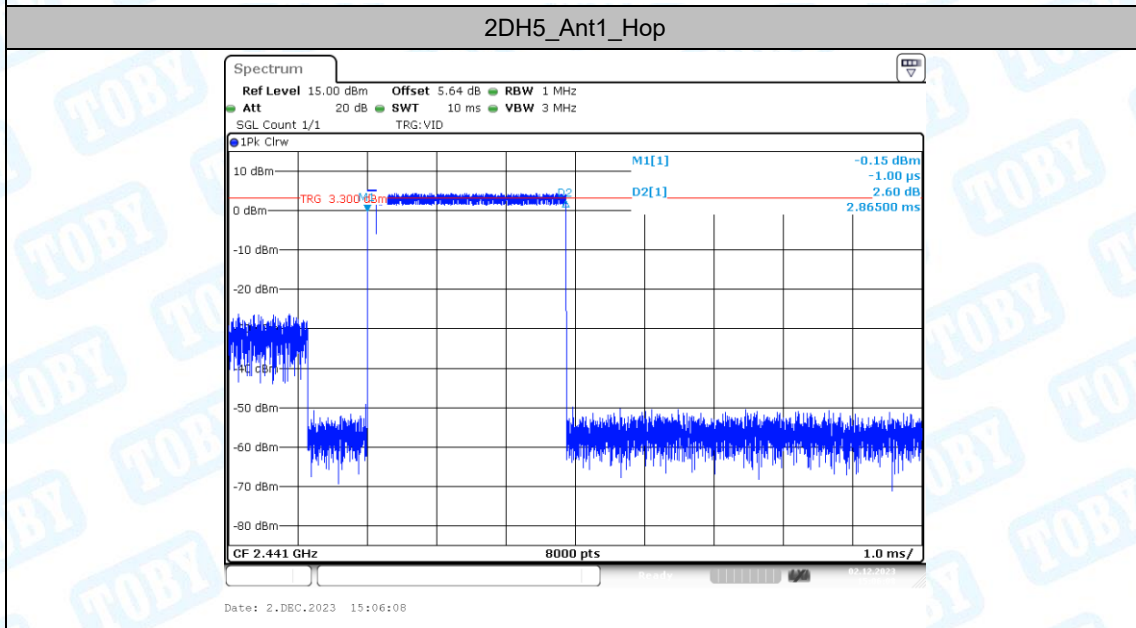
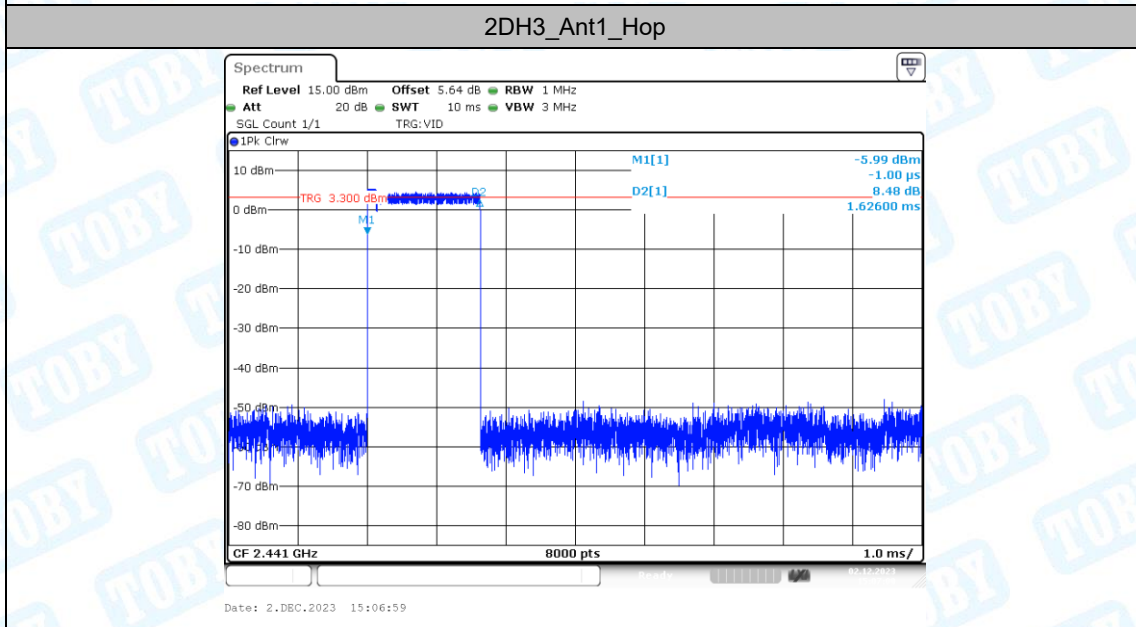
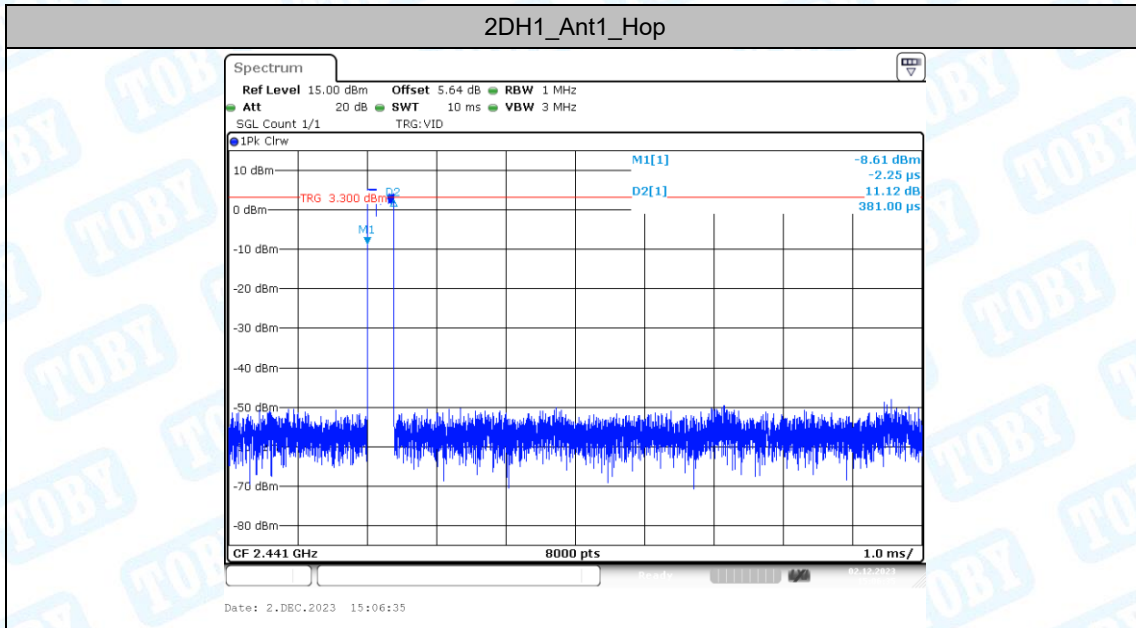
## 5. Time of occupancy

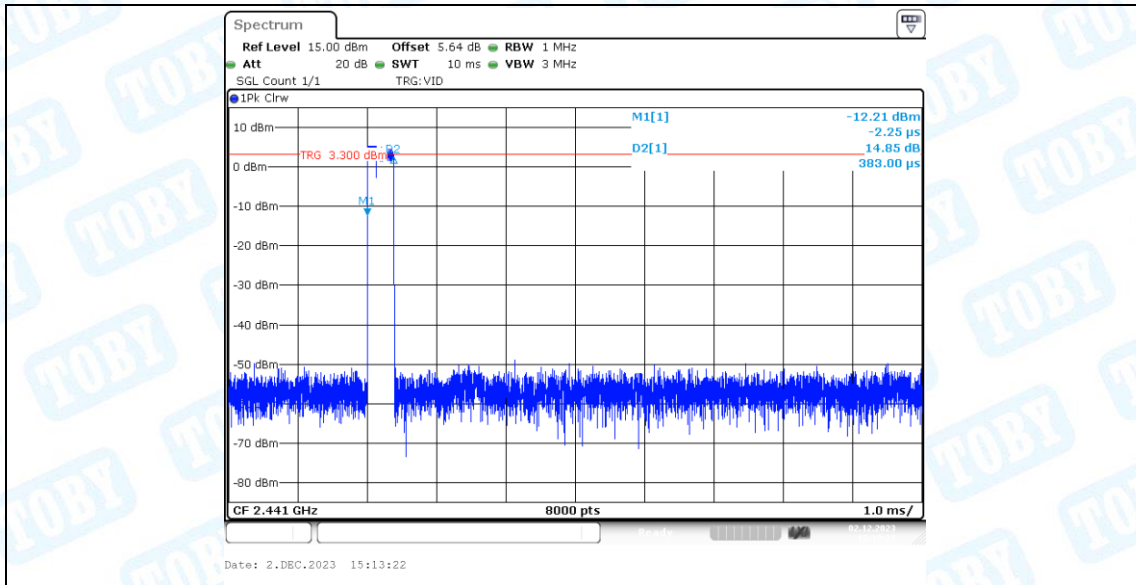
### 5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.623	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.863	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.865	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.383	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.624	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.868	106.67	0.306	≤0.4	PASS

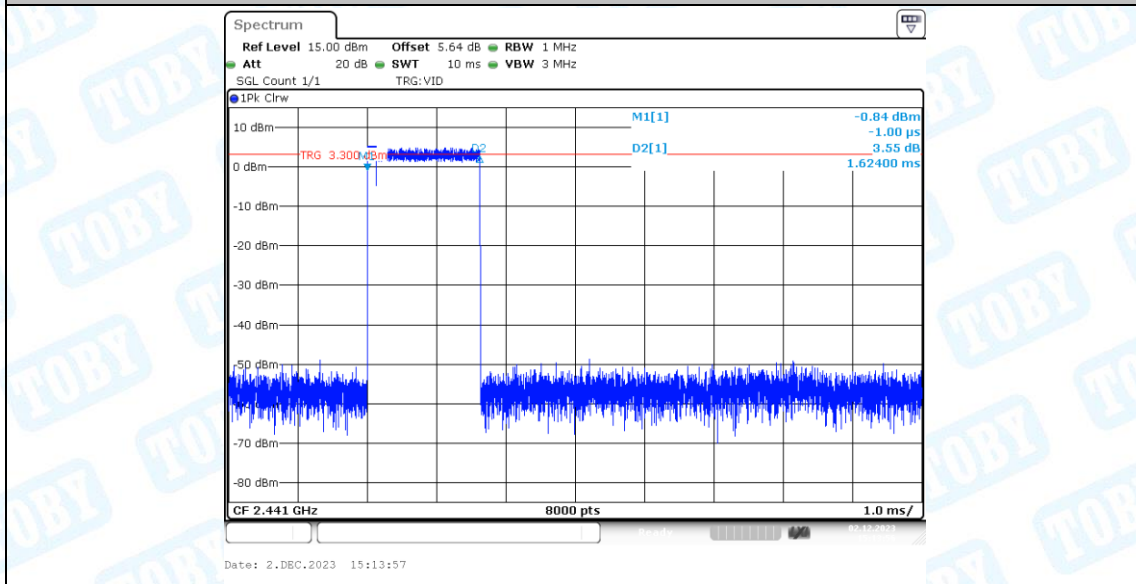
### 5.2.Test Graphs



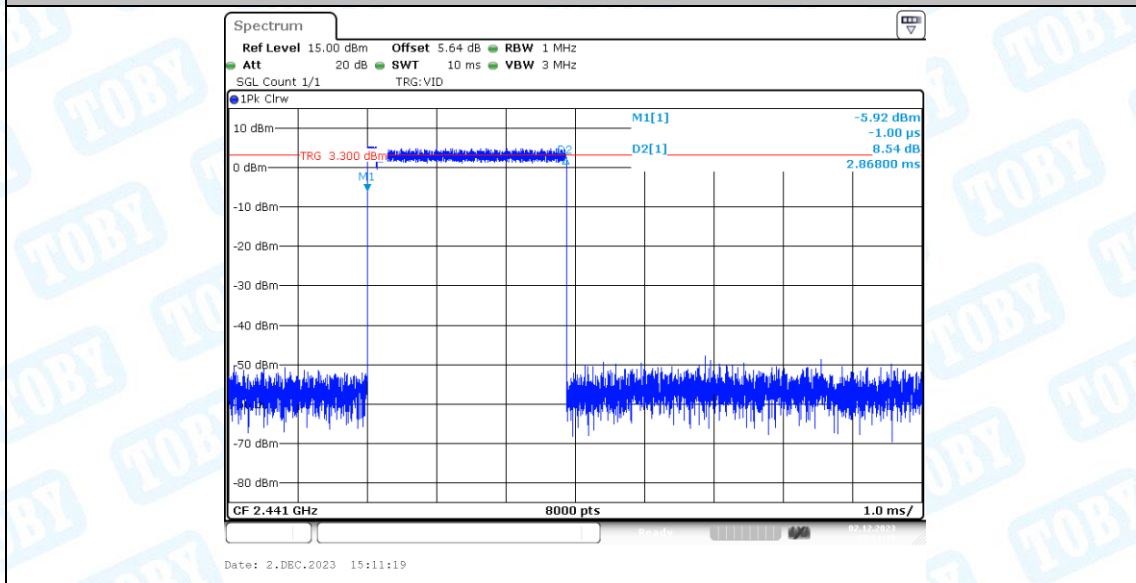




3DH3\_Ant1\_Hop



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

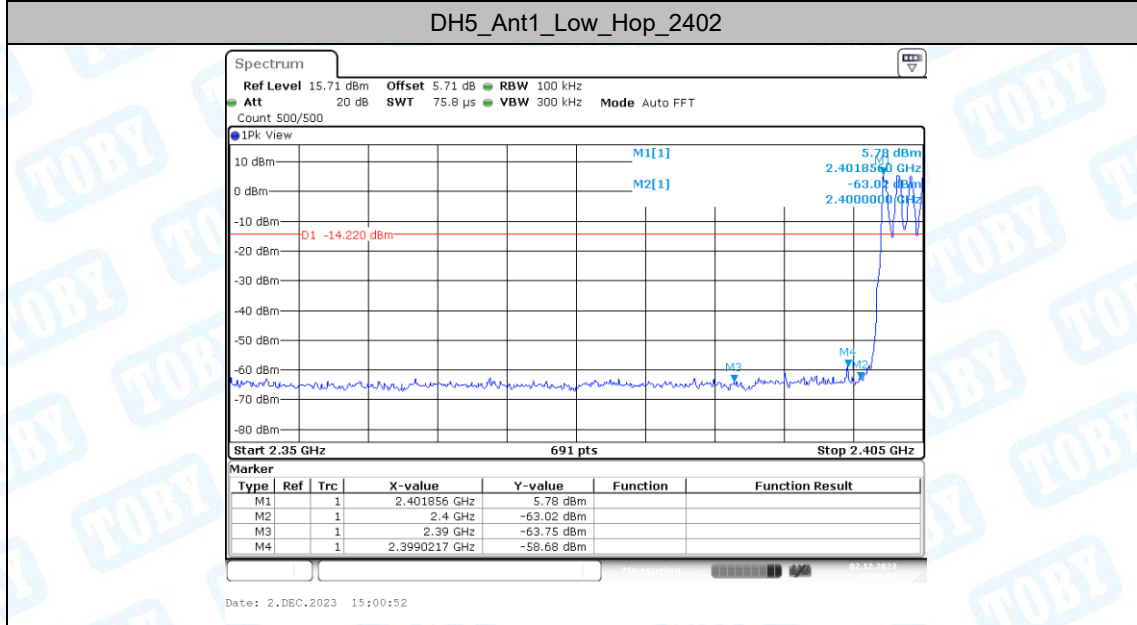
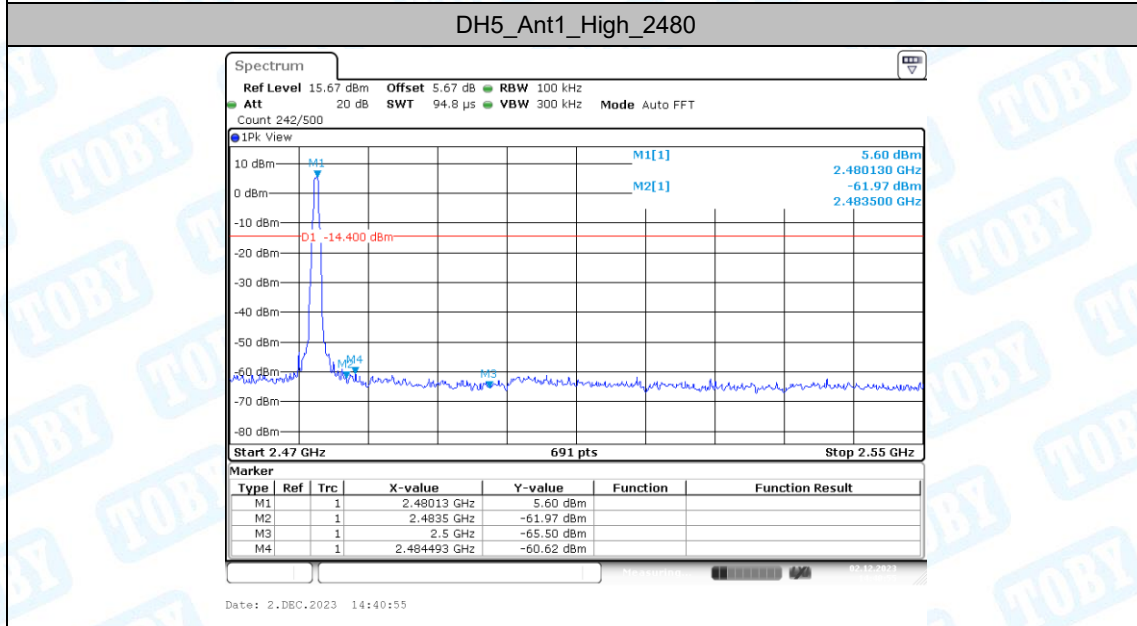
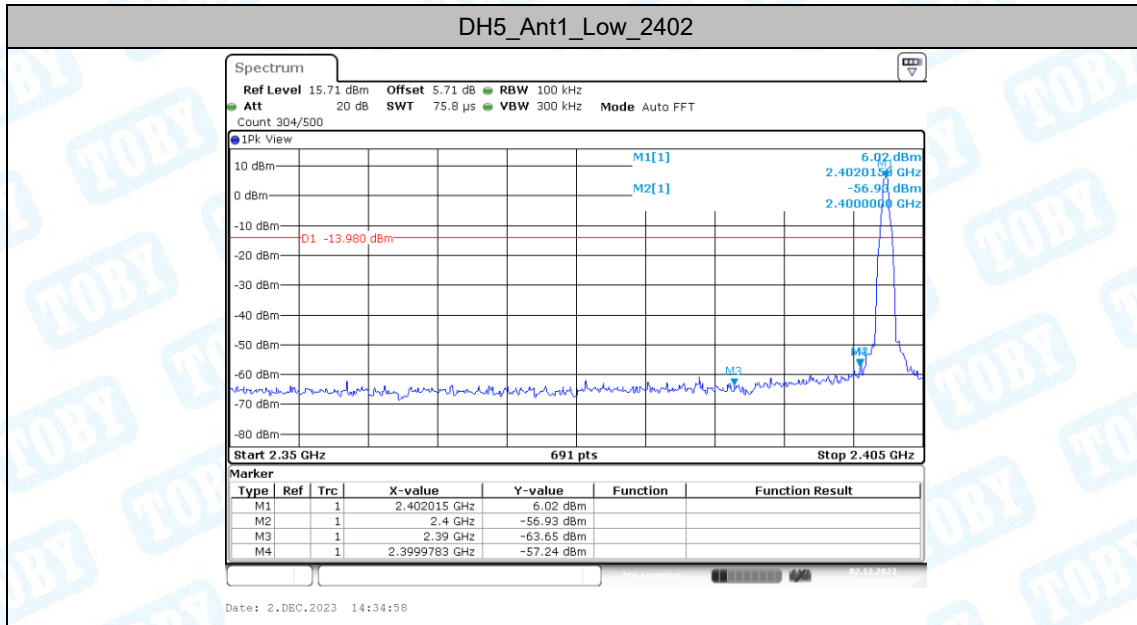


## 7. Band edge measurements

### 7.1. Test Result

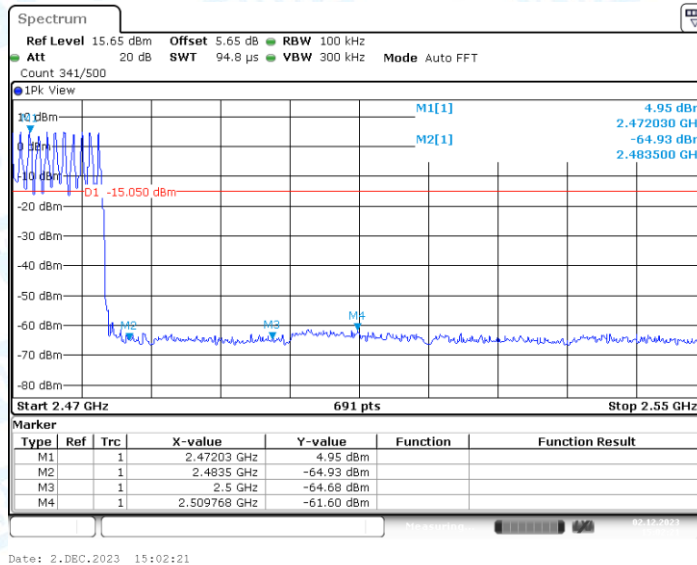
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.02	-57.24	≤-13.98	PASS
		High	2480	5.60	-60.62	≤-14.4	PASS
		Low	Hop_2402	5.78	-58.68	≤-14.22	PASS
		High	Hop_2480	4.95	-61.6	≤-15.05	PASS
2DH5	Ant1	Low	2402	4.74	-57.47	≤-15.26	PASS
		High	2480	4.75	-60.53	≤-15.25	PASS
		Low	Hop_2402	3.05	-61.95	≤-16.95	PASS
		High	Hop_2480	-0.77	-61.12	≤-20.77	PASS
3DH5	Ant1	Low	2402	4.34	-56.31	≤-15.66	PASS
		High	2480	2.27	-60.25	≤-17.73	PASS
		Low	Hop_2402	3.40	-57.72	≤-16.6	PASS
		High	Hop_2480	4.07	-61.01	≤-15.93	PASS

## 7.2. Test Graphs

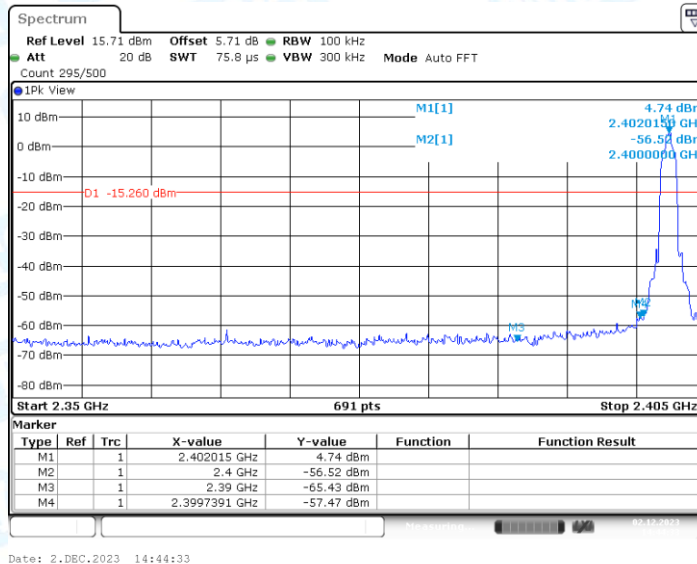




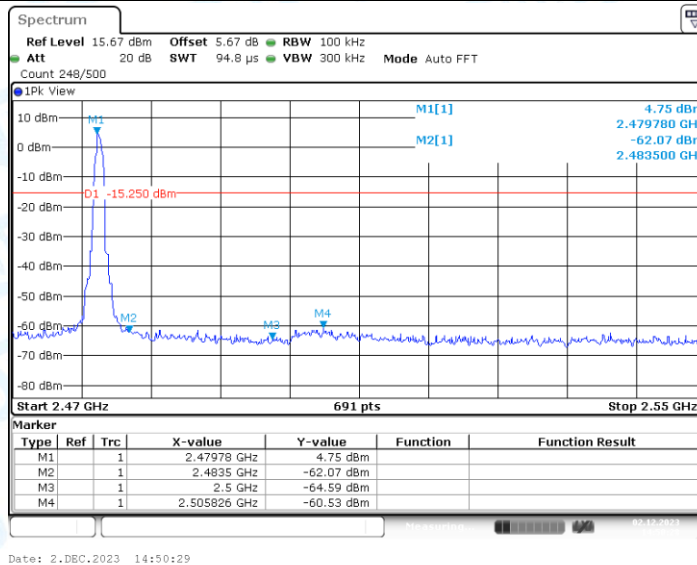
### DH5\_Ant1\_High\_Hop\_2480



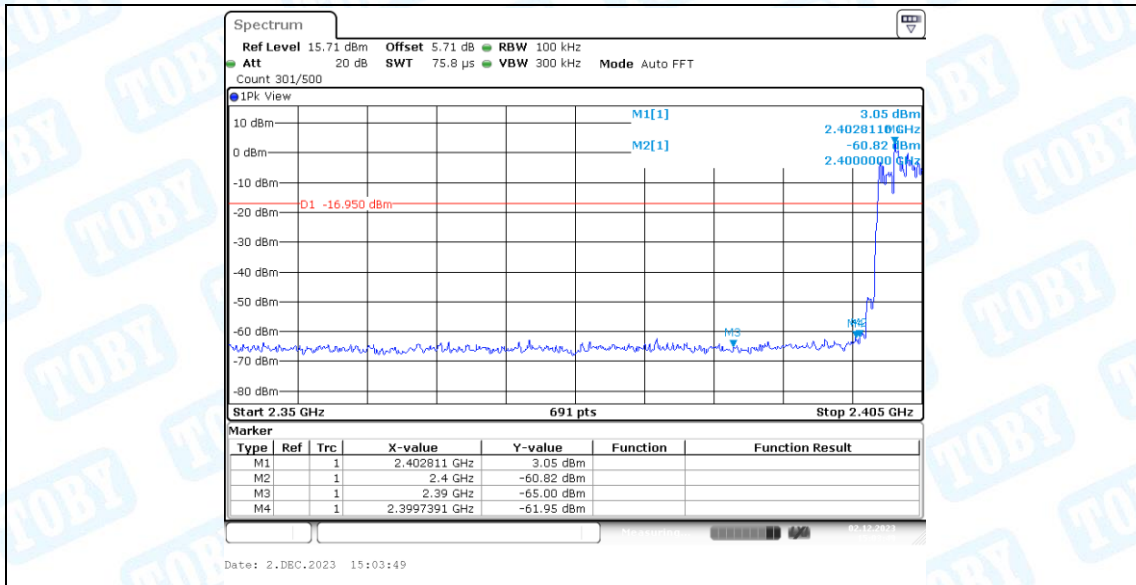
### 2DH5\_Ant1\_Low\_2402



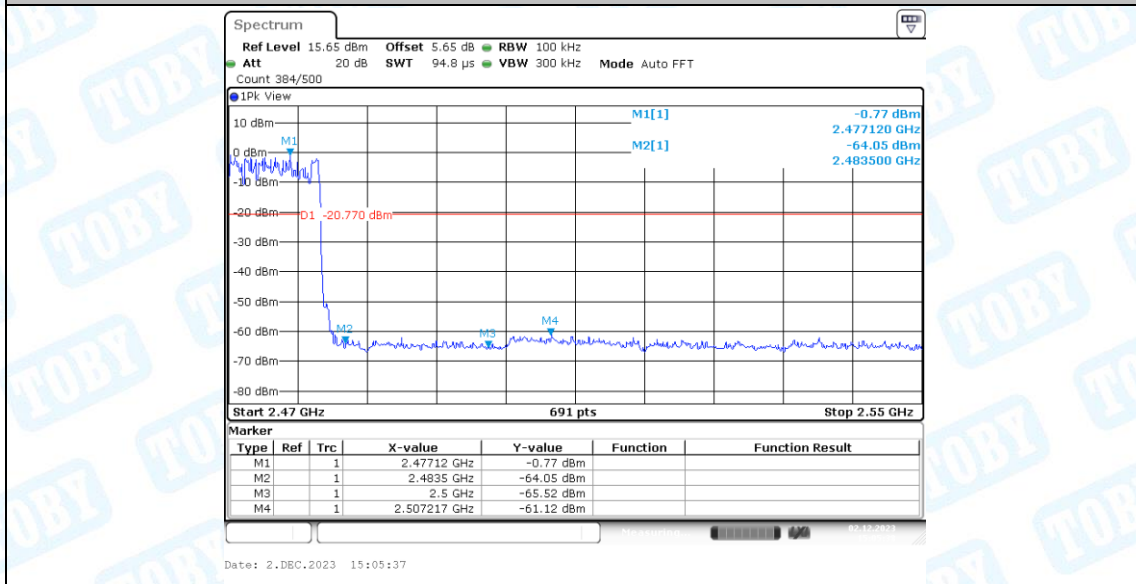
### 2DH5\_Ant1\_High\_2480



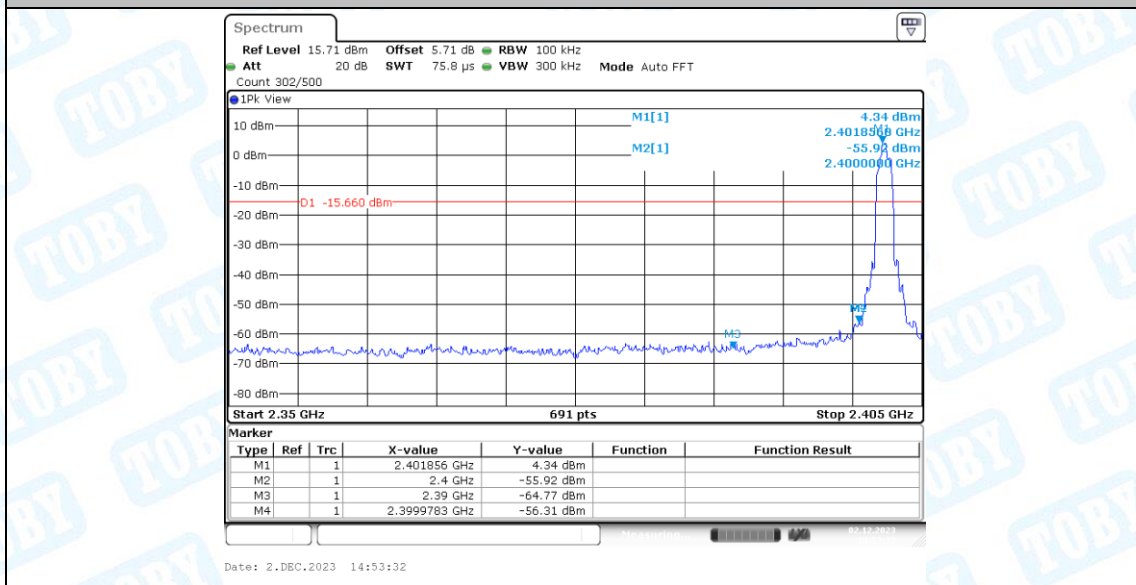
### 2DH5\_Ant1\_Low\_Hop\_2402



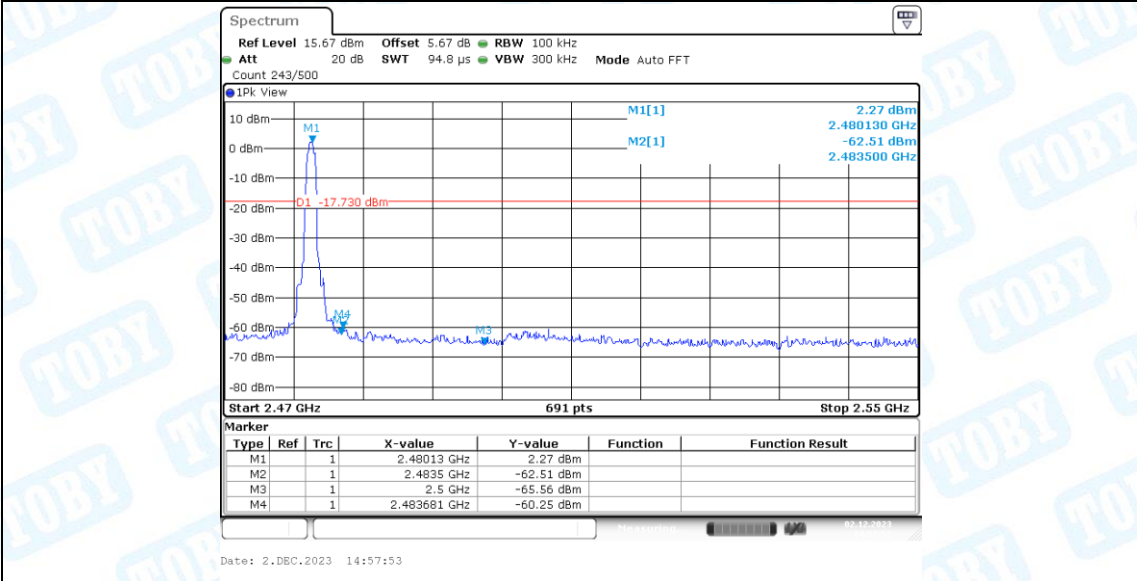
2DH5\_Ant1\_High\_Hop\_2480



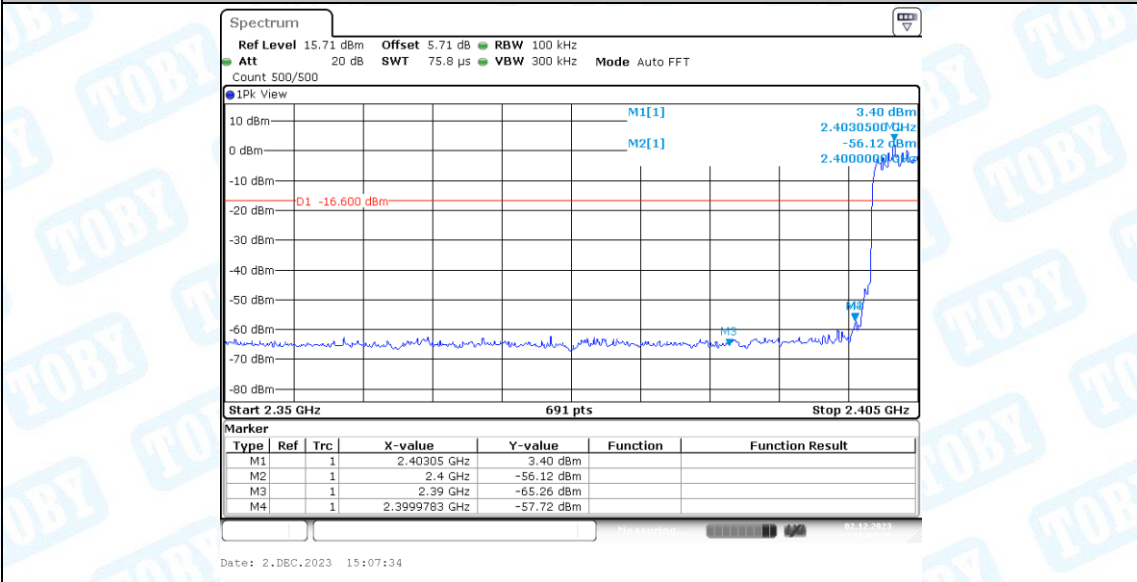
3DH5\_Ant1\_Low\_2402



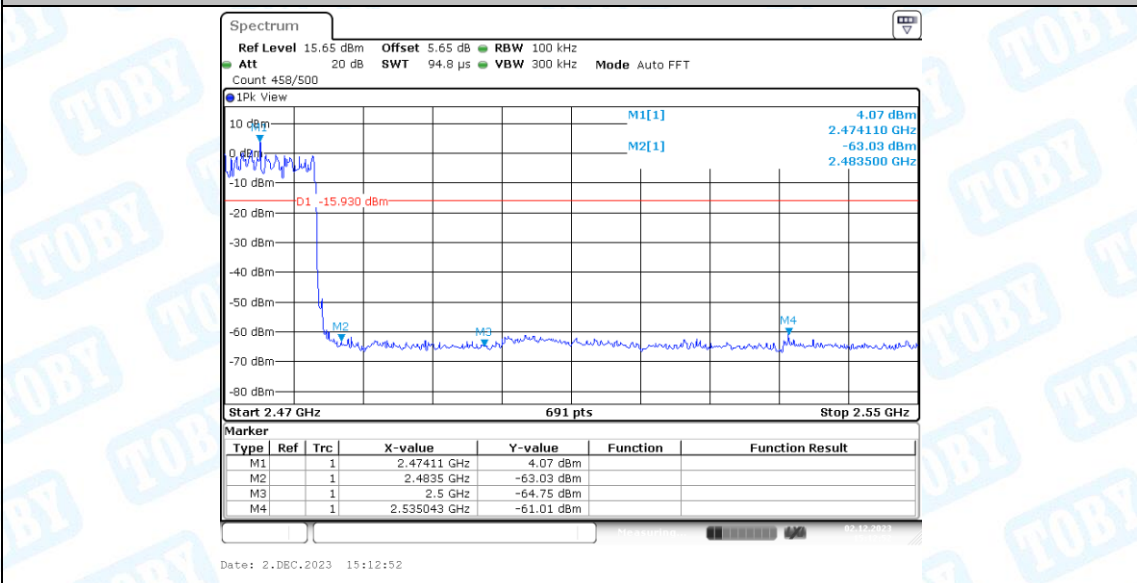
3DH5\_Ant1\_High\_2480



3DH5\_Ant1\_Low\_Hop\_2402



3DH5\_Ant1\_High\_Hop\_2480

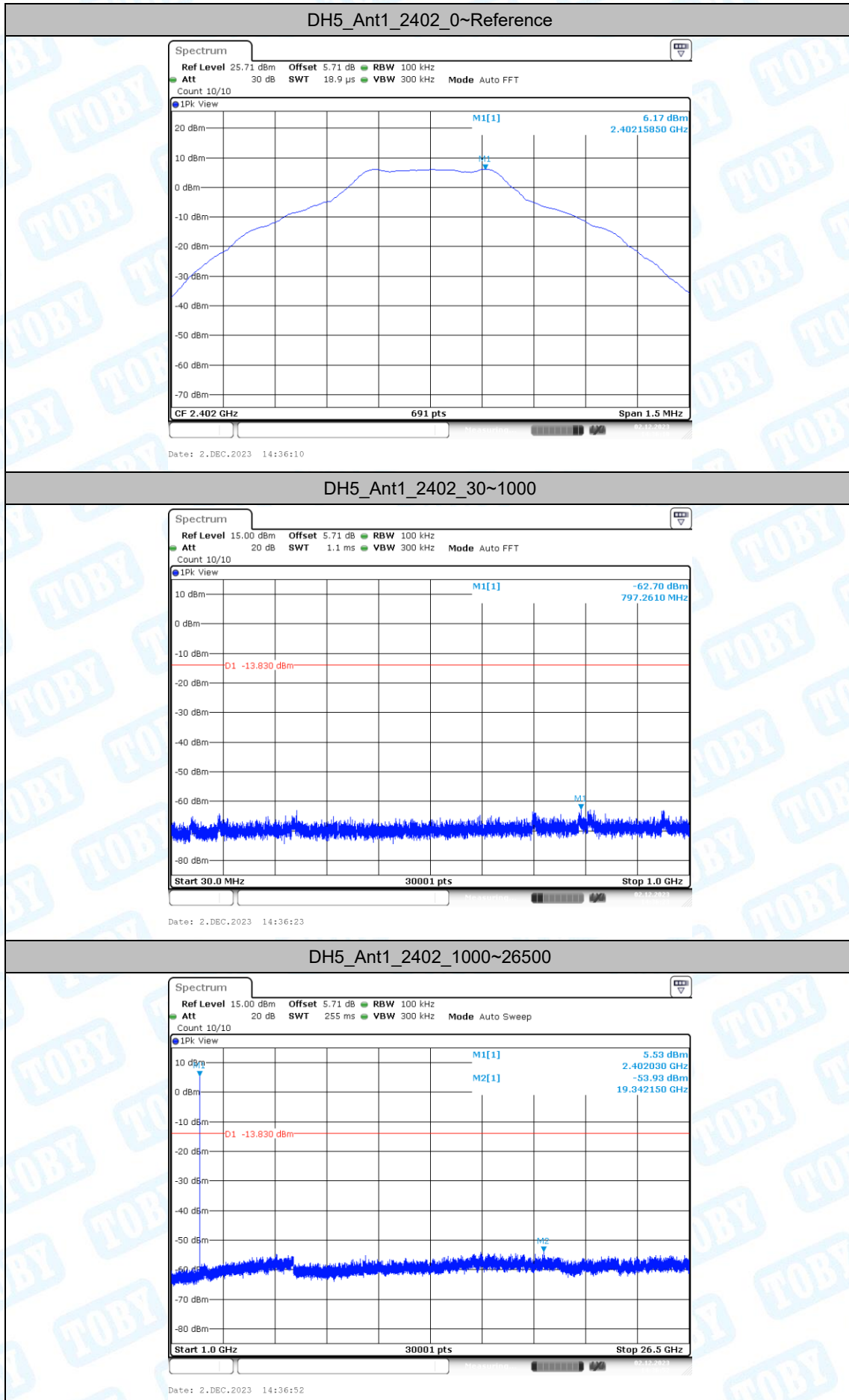


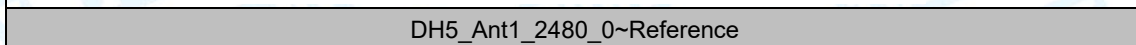
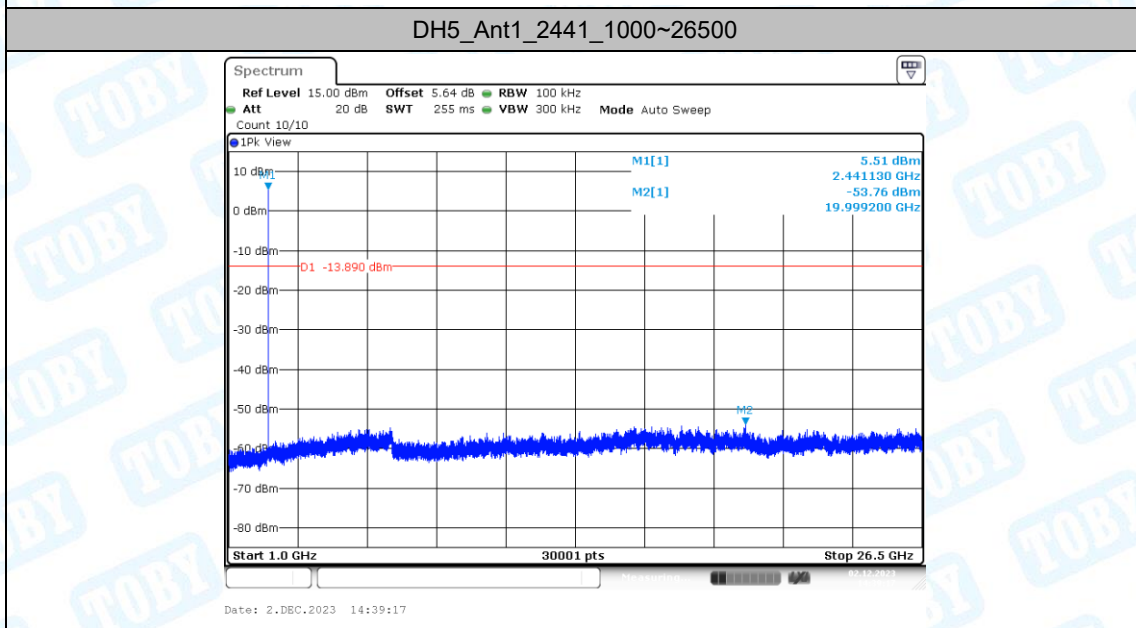
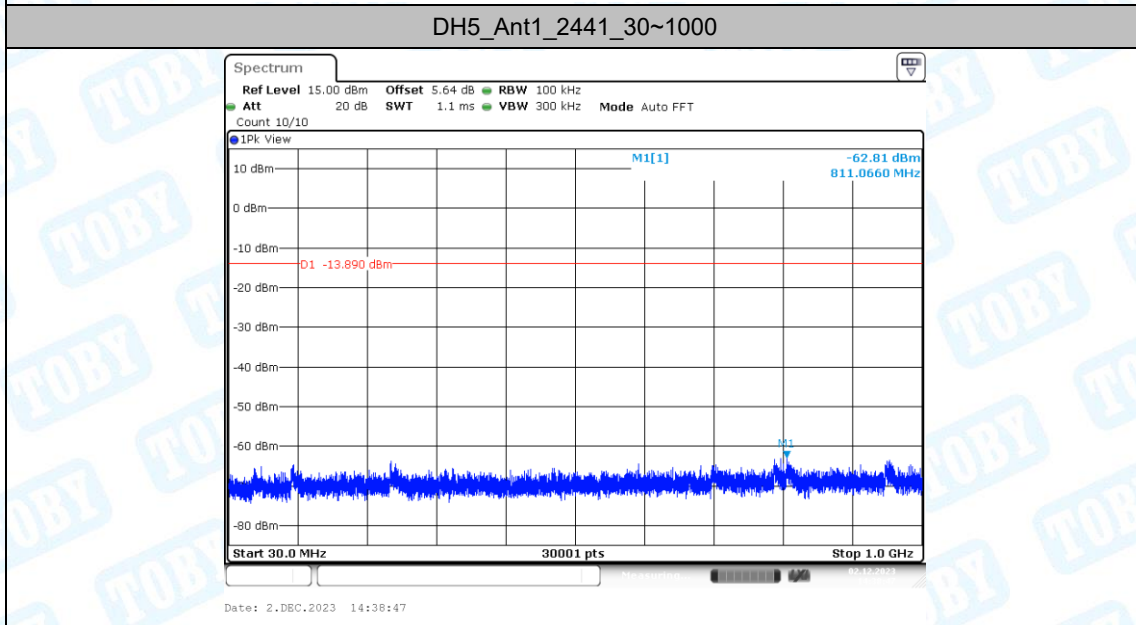
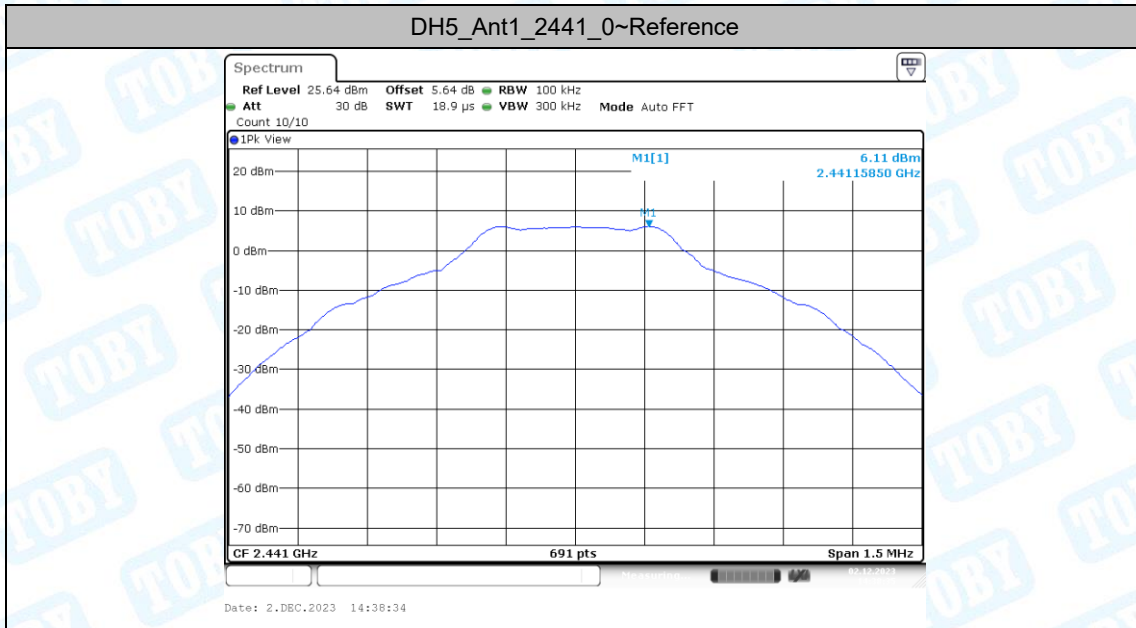
## 8. Conducted Spurious Emission

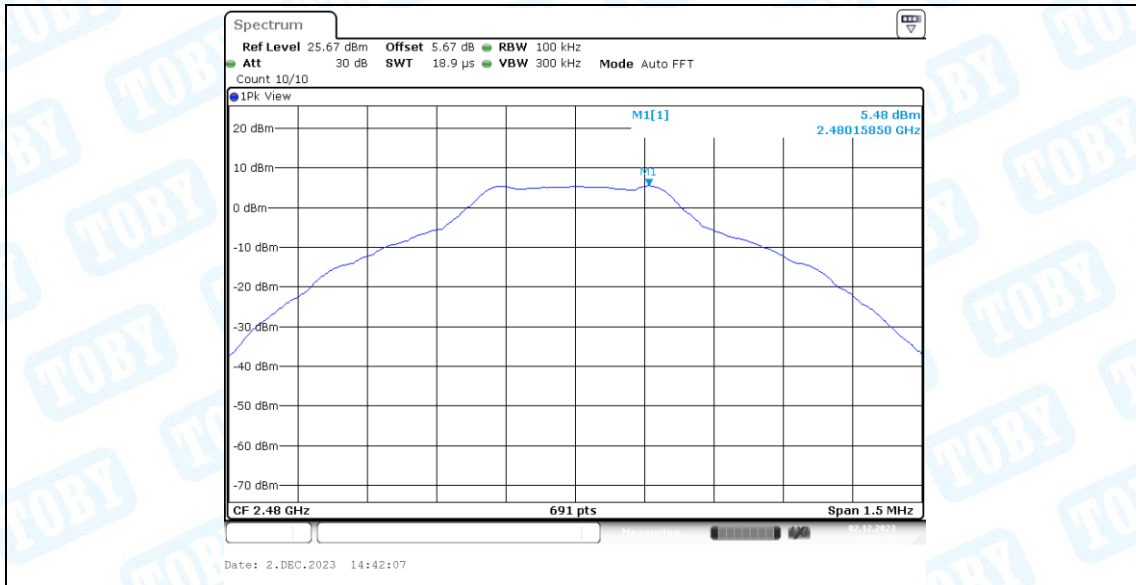
### 8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	6.17	6.17	---	PASS
			30~1000	6.17	-62.7	≤-13.83	PASS
			1000~26500	6.17	-53.93	≤-13.83	PASS
		2441	Reference	6.11	6.11	---	PASS
			30~1000	6.11	-62.81	≤-13.89	PASS
			1000~26500	6.11	-53.76	≤-13.89	PASS
		2480	Reference	5.48	5.48	---	PASS
			30~1000	5.48	-62.63	≤-14.52	PASS
			1000~26500	5.48	-53.56	≤-14.52	PASS
2DH5	Ant1	2402	Reference	5.33	5.33	---	PASS
			30~1000	5.33	-62.83	≤-14.67	PASS
			1000~26500	5.33	-53.72	≤-14.67	PASS
		2441	Reference	5.37	5.37	---	PASS
			30~1000	5.37	-63.16	≤-14.63	PASS
			1000~26500	5.37	-53.62	≤-14.63	PASS
		2480	Reference	4.75	4.75	---	PASS
			30~1000	4.75	-63.18	≤-15.25	PASS
			1000~26500	4.75	-54.26	≤-15.25	PASS
3DH5	Ant1	2402	Reference	5.25	5.25	---	PASS
			30~1000	5.25	-62.86	≤-14.75	PASS
			1000~26500	5.25	-54.03	≤-14.75	PASS
		2441	Reference	5.28	5.28	---	PASS
			30~1000	5.28	-61.69	≤-14.72	PASS
			1000~26500	5.28	-54.1	≤-14.72	PASS
		2480	Reference	4.70	4.70	---	PASS
			30~1000	4.70	-61.32	≤-15.3	PASS
			1000~26500	4.70	-53.74	≤-15.3	PASS

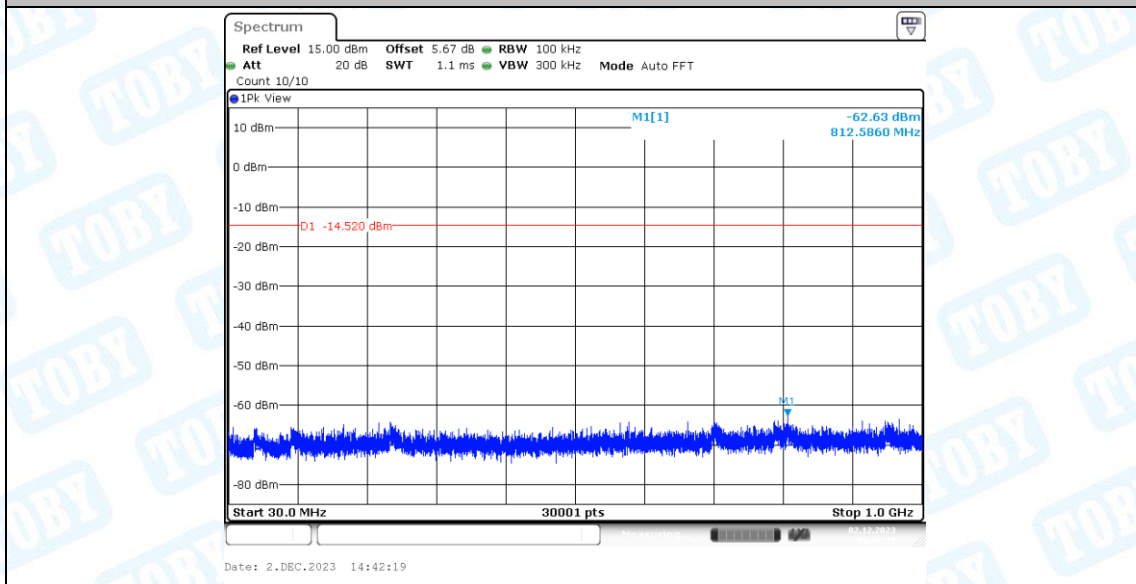
## 8.2. Test Graphs



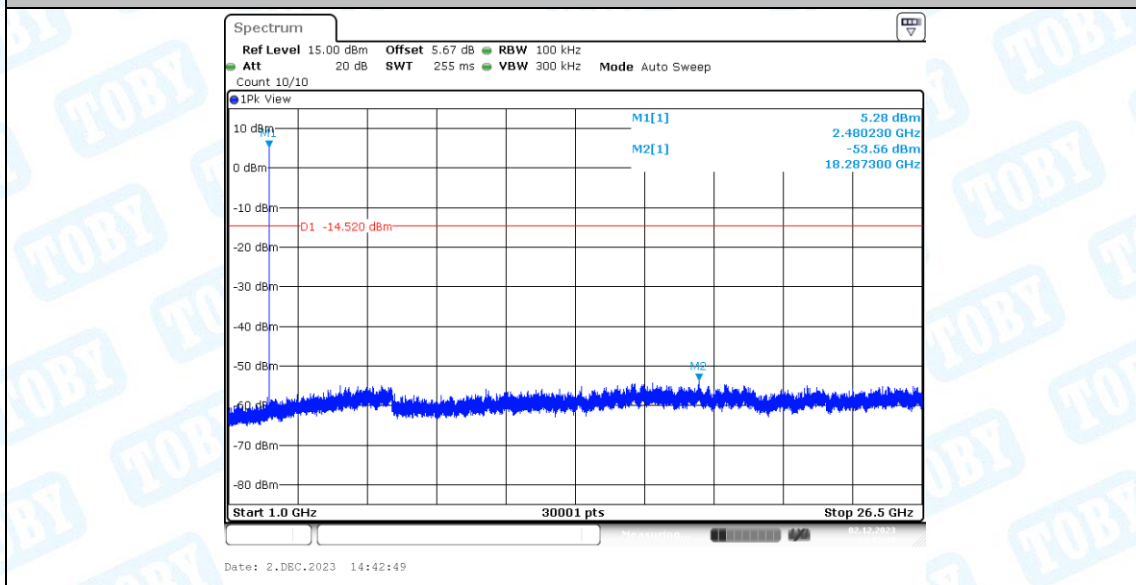




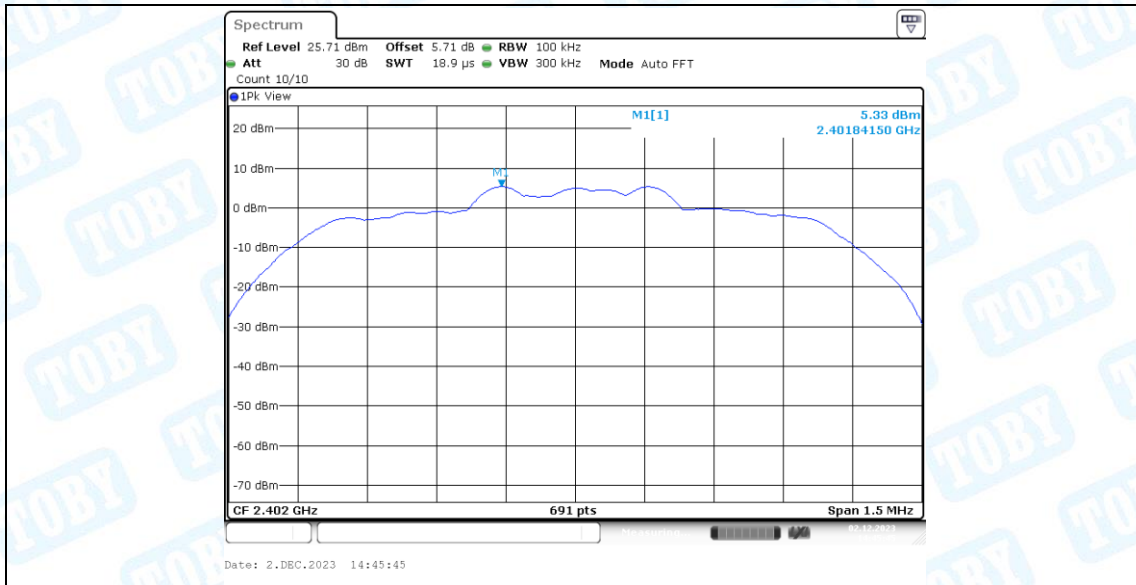
DH5\_Ant1\_2480\_30~1000



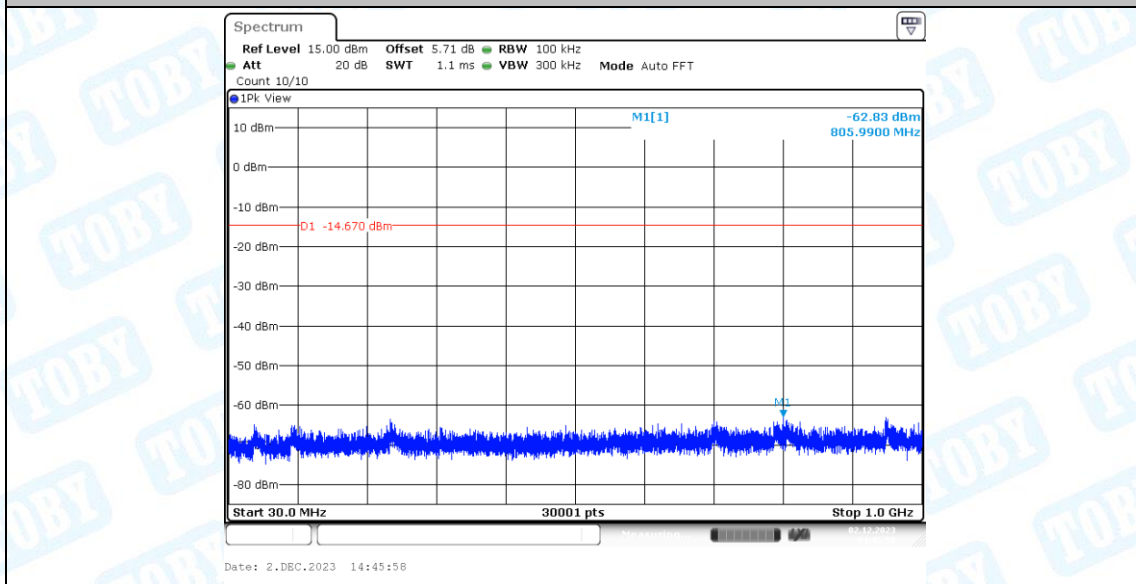
DH5\_Ant1\_2480\_1000~26500



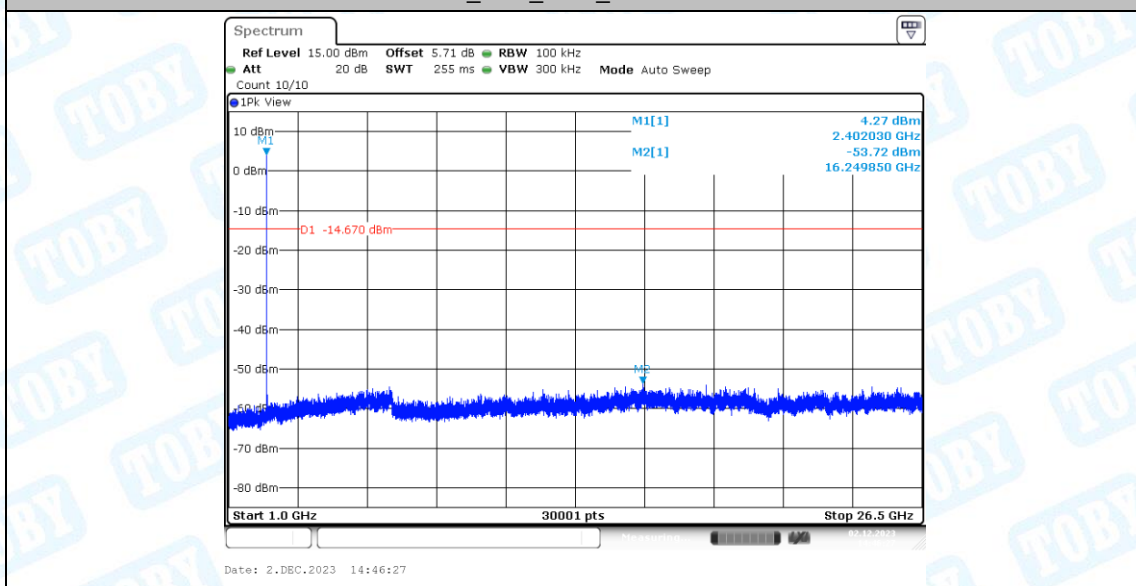
2DH5\_Ant1\_2402\_0~Reference



2DH5\_Ant1\_2402\_30~1000

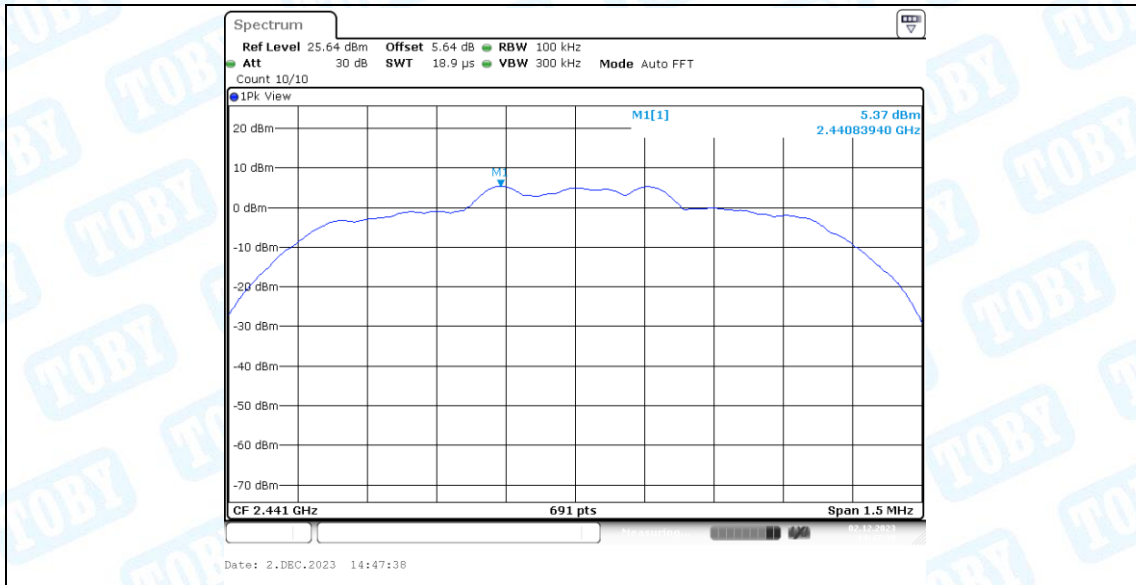


2DH5\_Ant1\_2402\_1000~26500

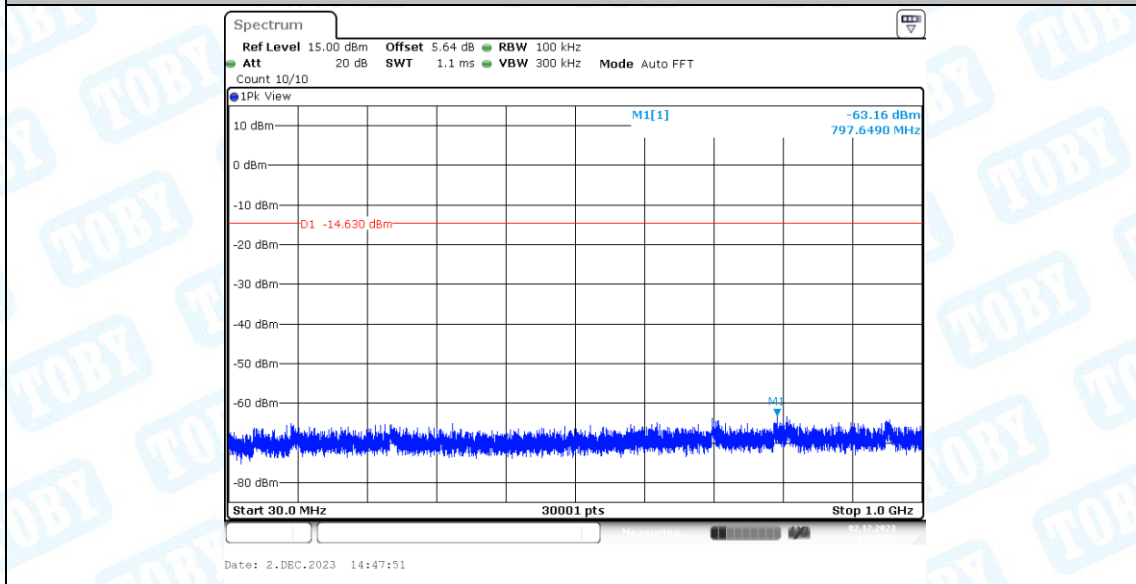


2DH5\_Ant1\_2441\_0~Reference

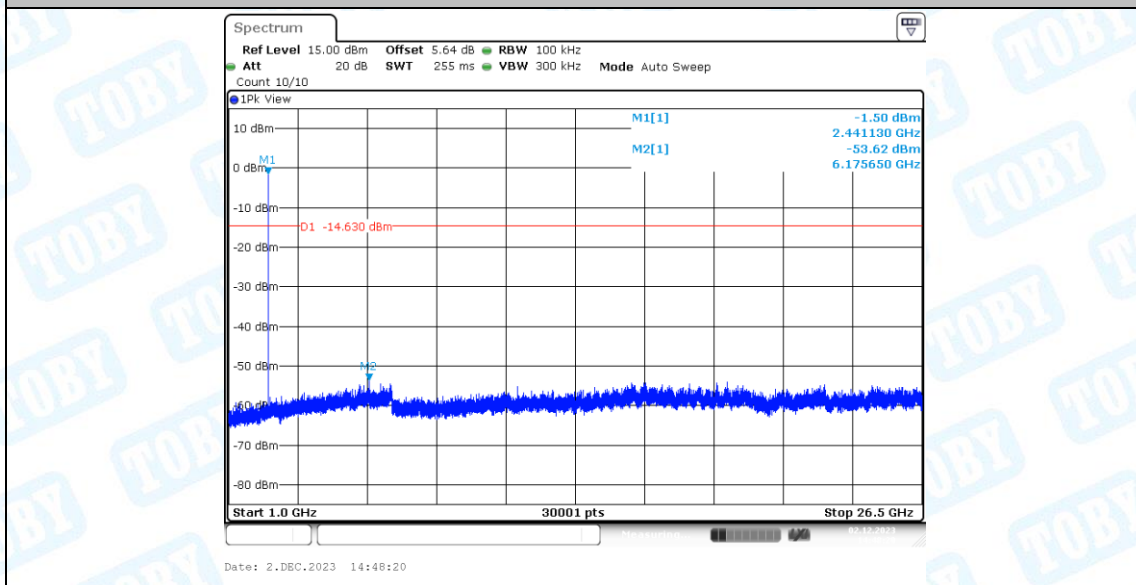




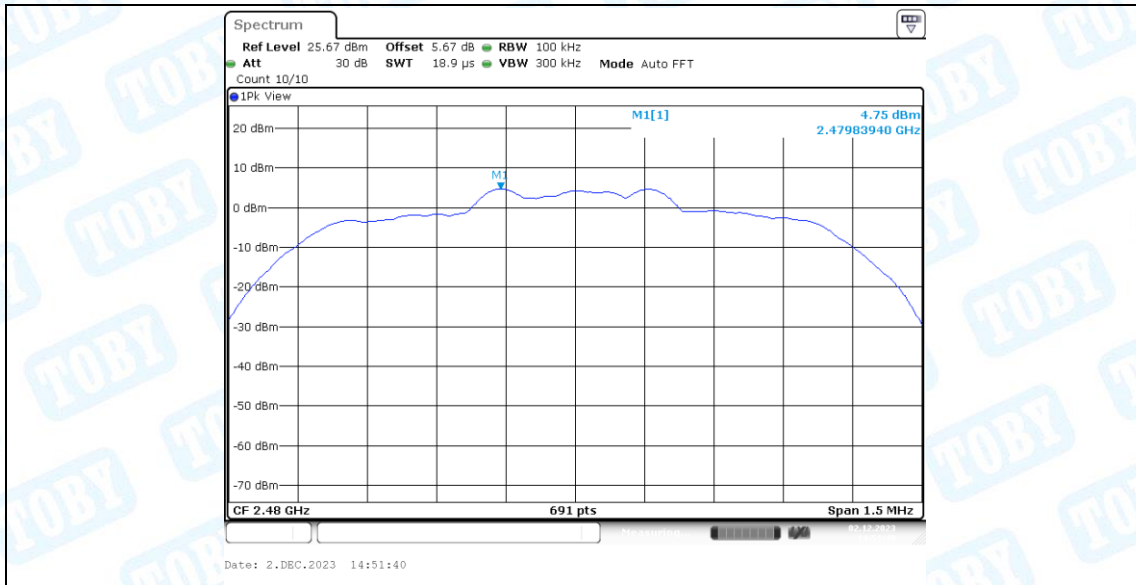
2DH5\_Ant1\_2441\_30~1000



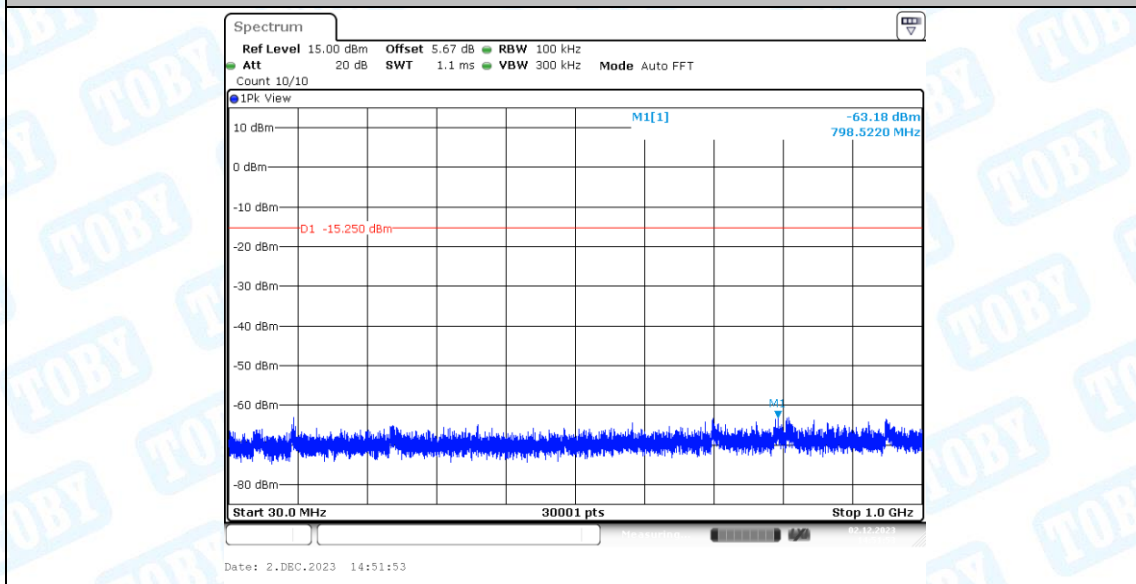
2DH5\_Ant1\_2441\_1000~26500



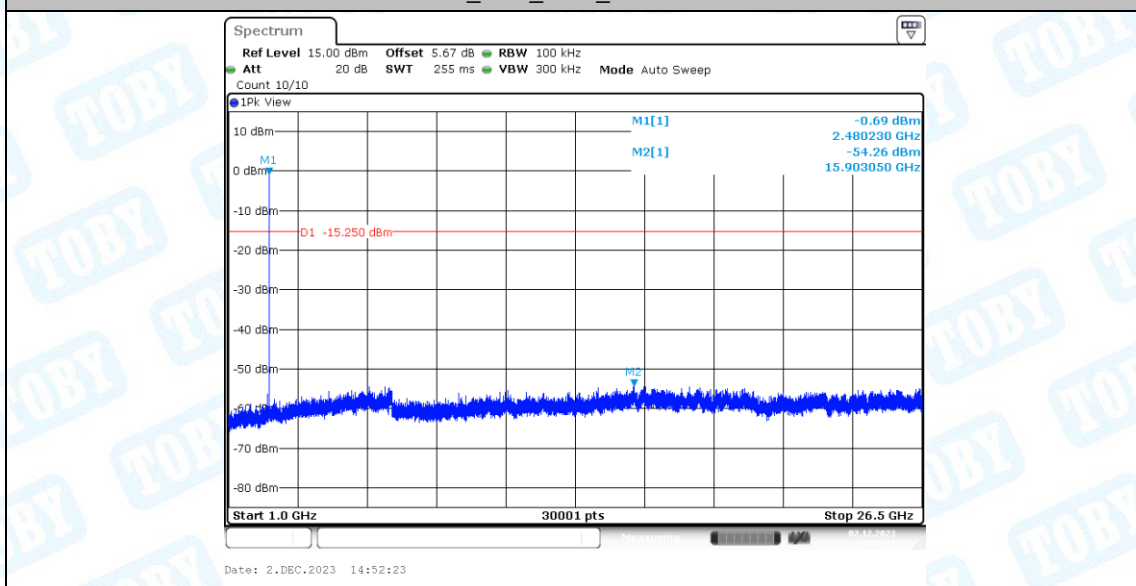
2DH5\_Ant1\_2480\_0~Reference



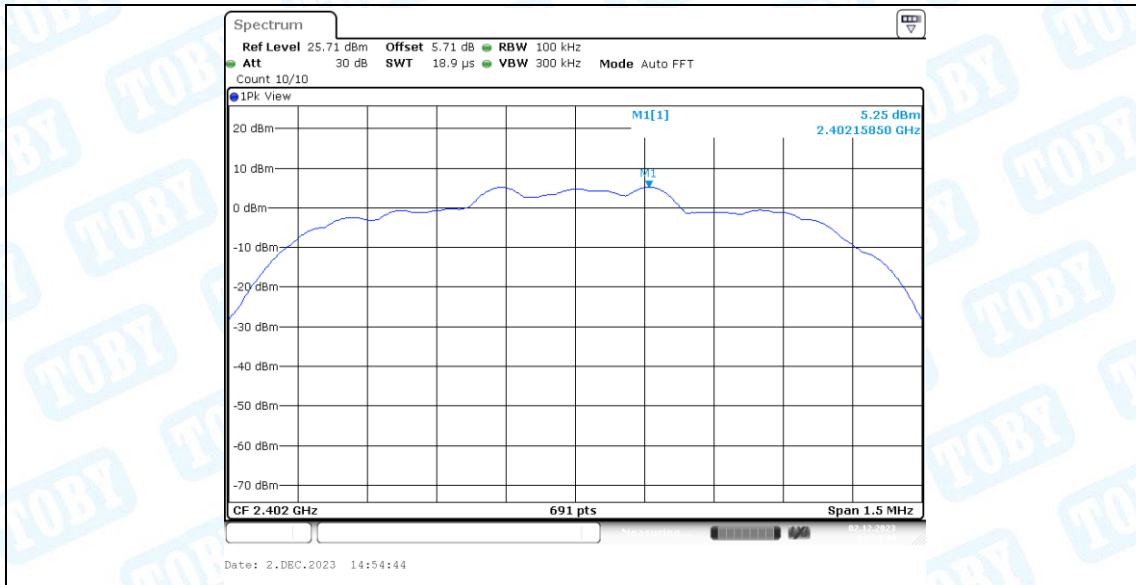
2DH5\_Ant1\_2480\_30~1000



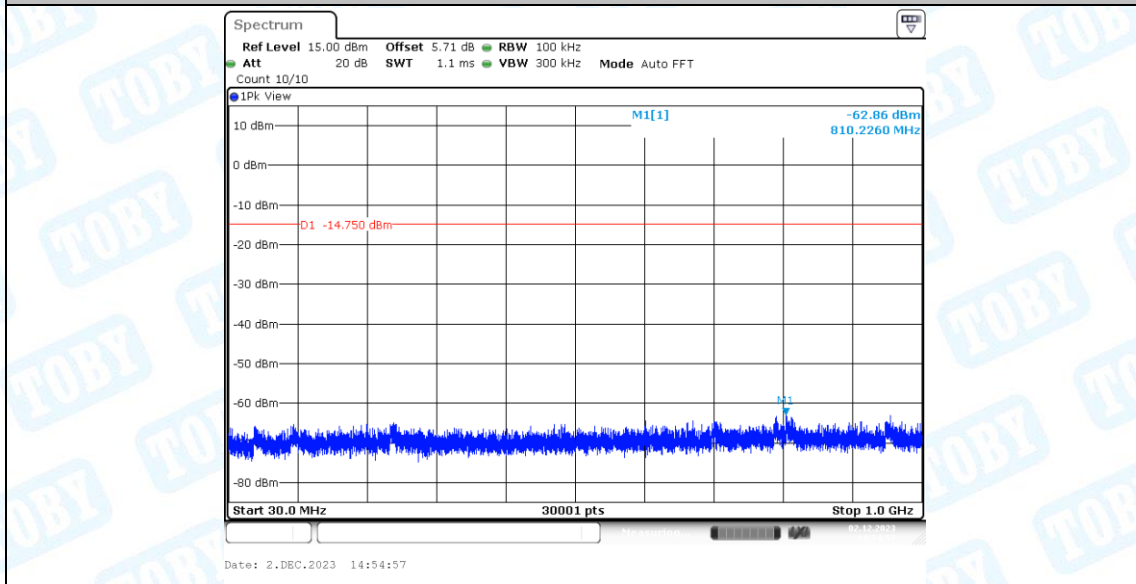
2DH5\_Ant1\_2480\_1000~26500



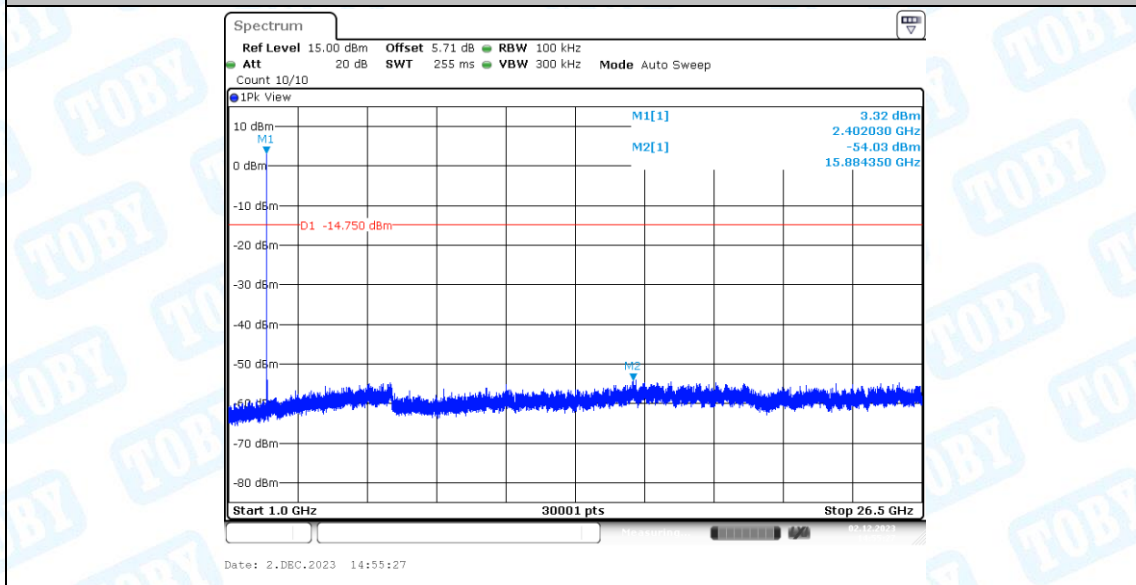
3DH5\_Ant1\_2402\_0~Reference



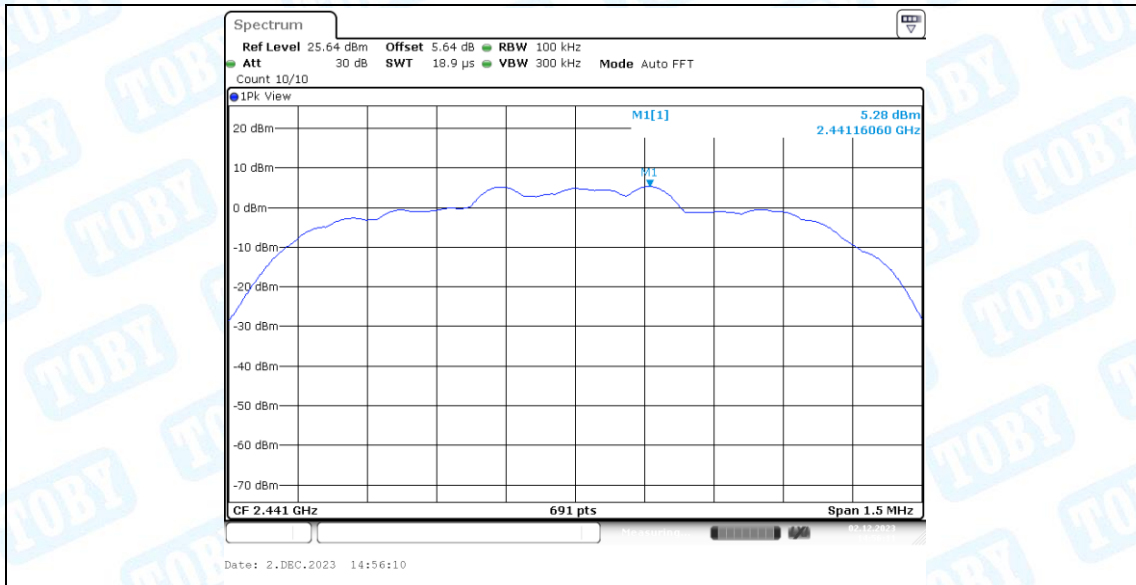
3DH5\_Ant1\_2402\_30~1000



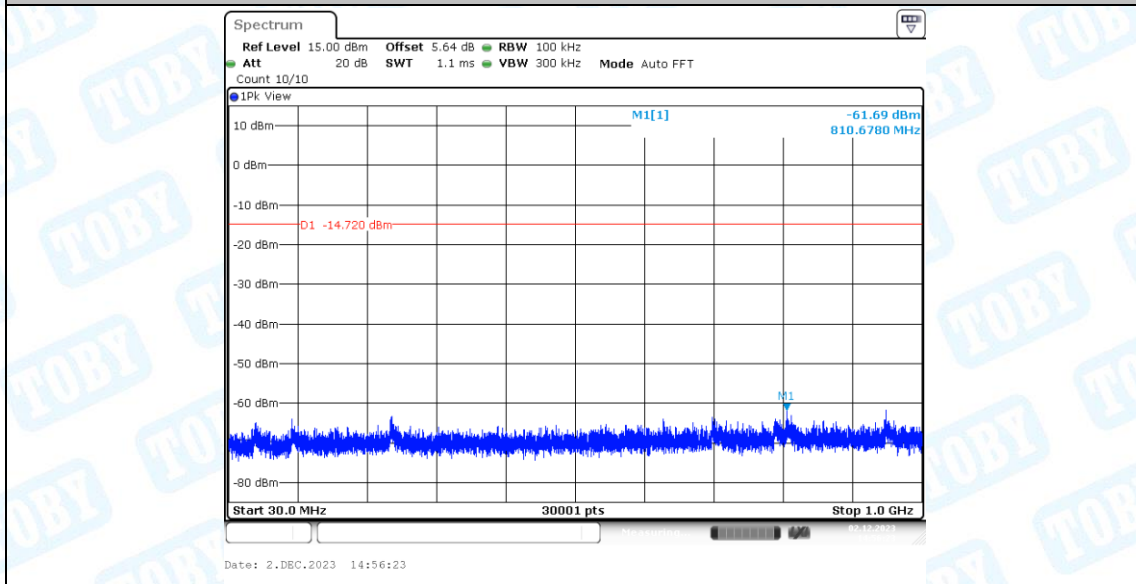
3DH5\_Ant1\_2402\_1000~26500



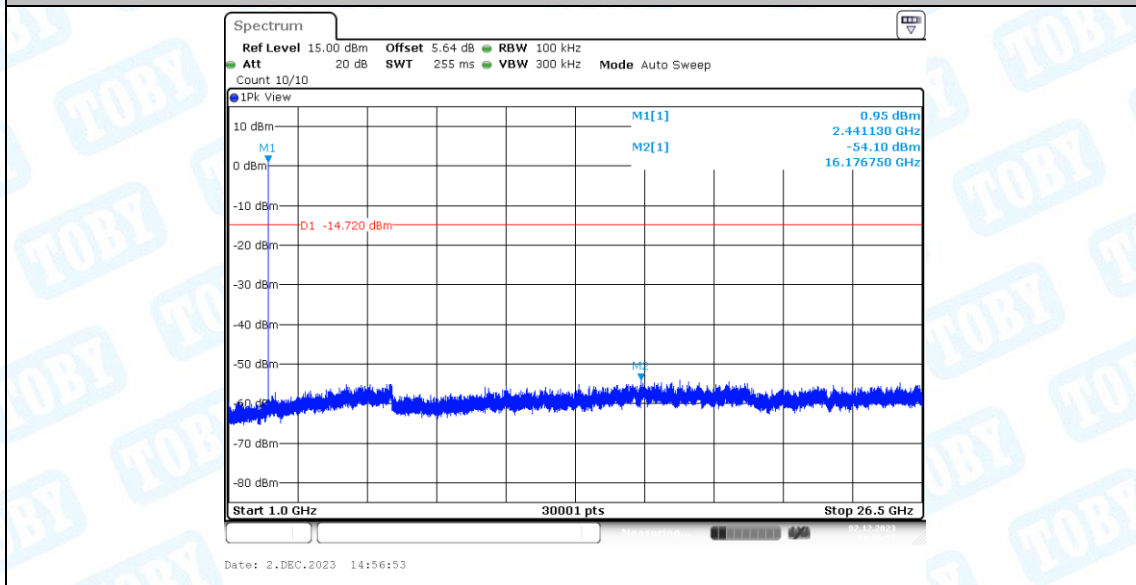
3DH5\_Ant1\_2441\_0~Reference



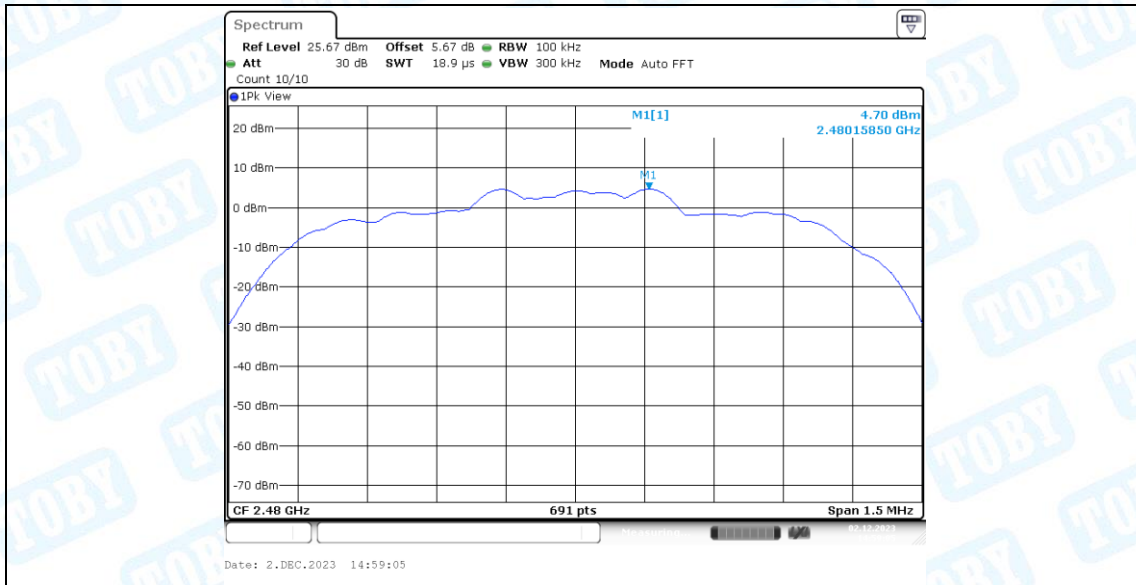
3DH5\_Ant1\_2441\_30~1000



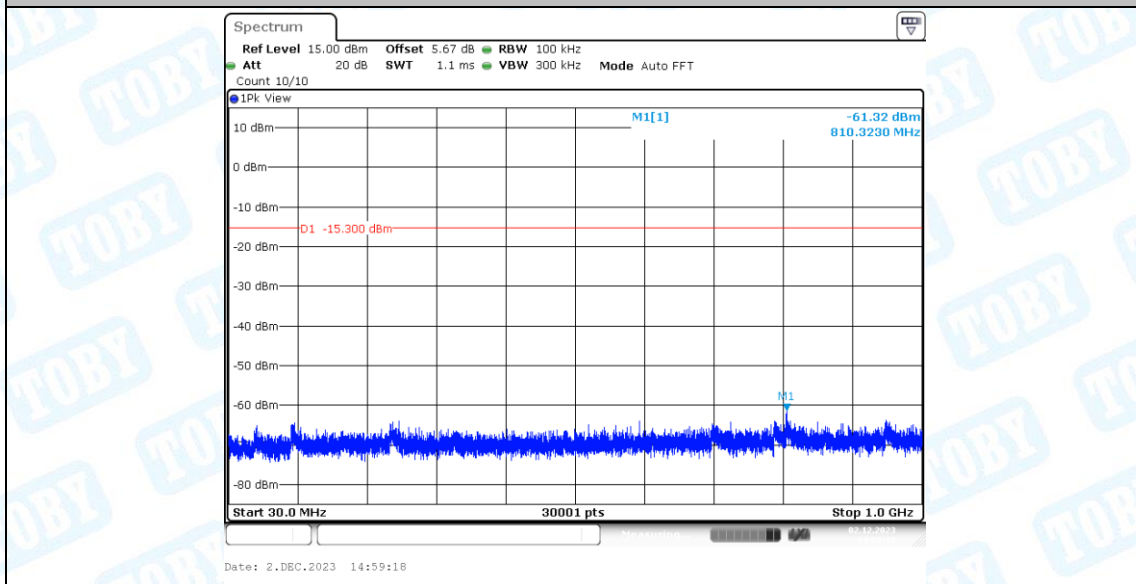
3DH5\_Ant1\_2441\_1000~26500



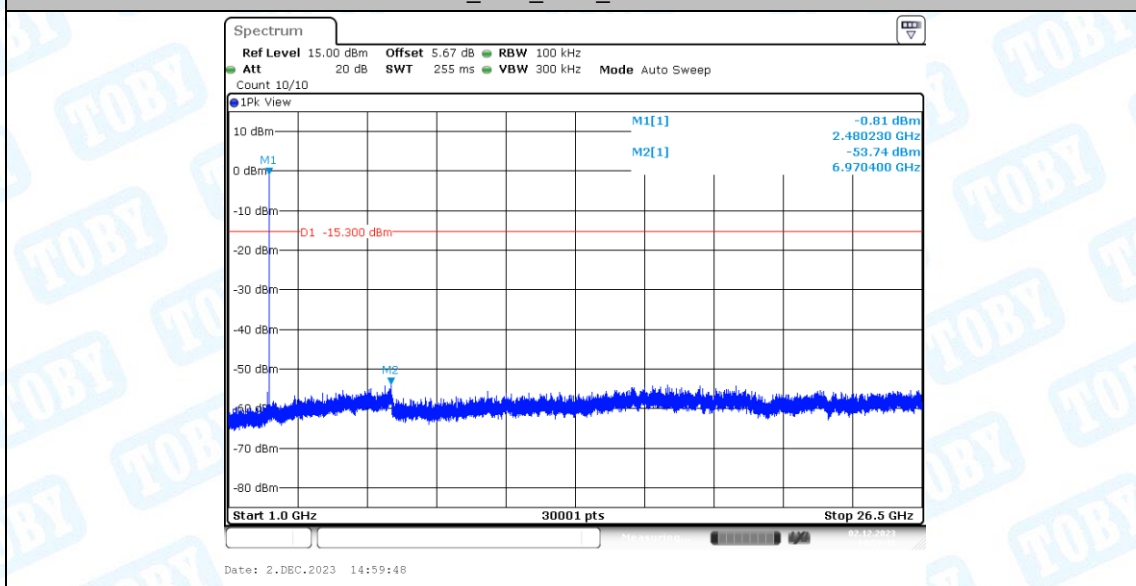
3DH5\_Ant1\_2480\_0~Reference



3DH5\_Ant1\_2480\_30~1000



3DH5\_Ant1\_2480\_1000~26500

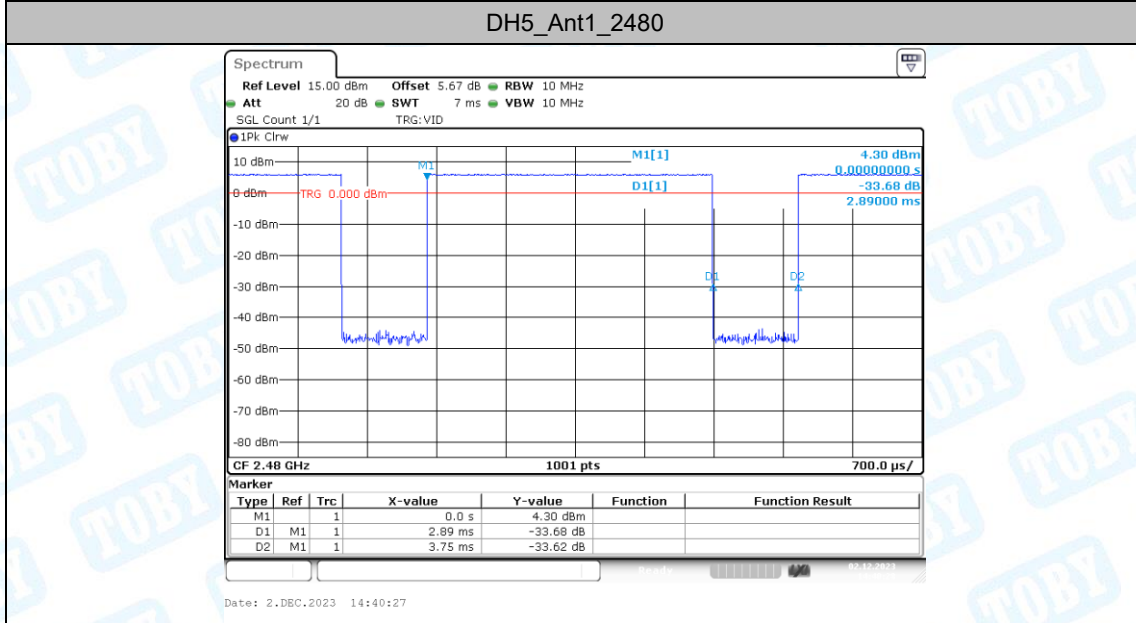
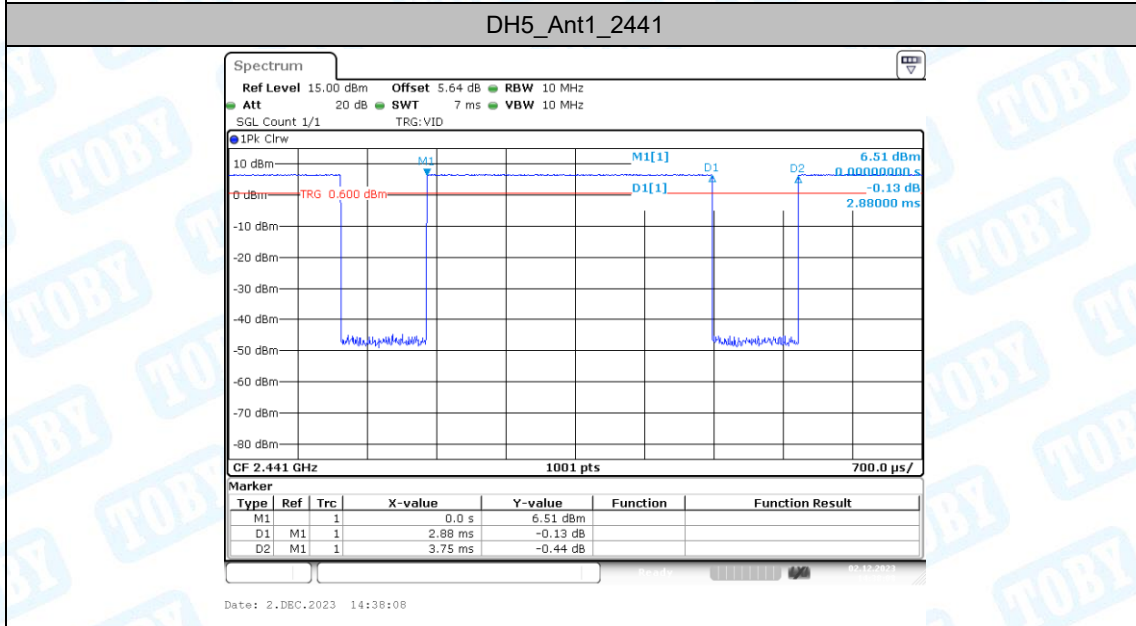
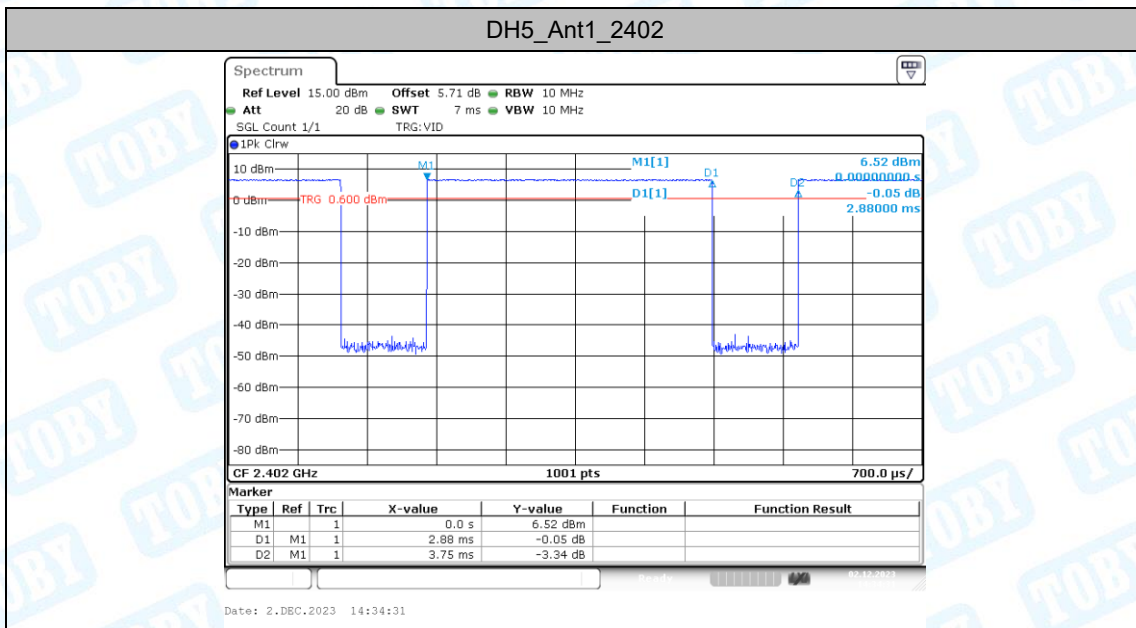


## 9. Duty Cycle

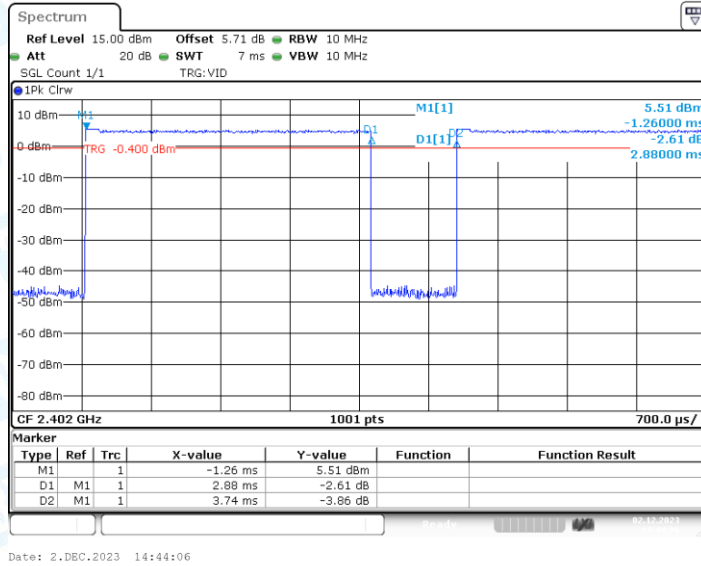
### 9.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	76.80	---	---
		2441	2.88	3.75	76.80	---	---
		2480	2.89	3.75	77.07	---	---
2DH5	Ant1	2402	2.88	3.74	77.01	---	---
		2441	2.88	3.74	77.01	---	---
		2480	2.89	3.75	77.07	---	---
3DH5	Ant1	2402	2.89	3.75	77.07	---	---
		2441	2.89	3.75	77.07	---	---
		2480	2.89	3.75	77.07	---	---

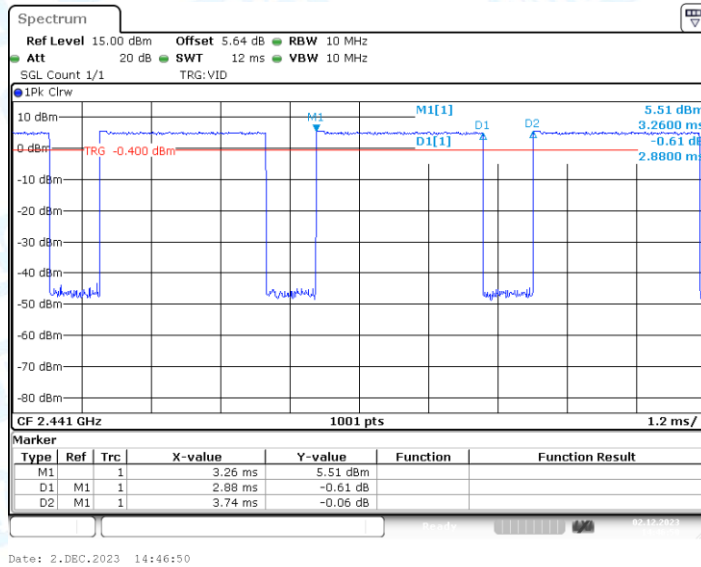
## 9.2. Test Graphs



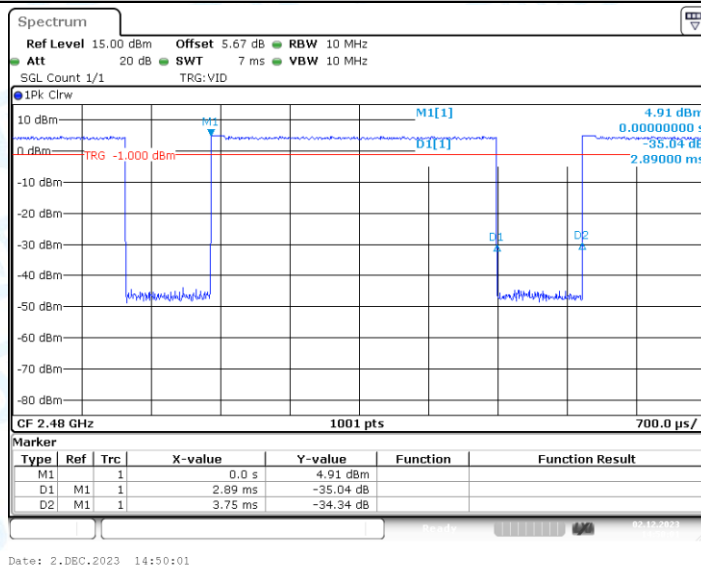
2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

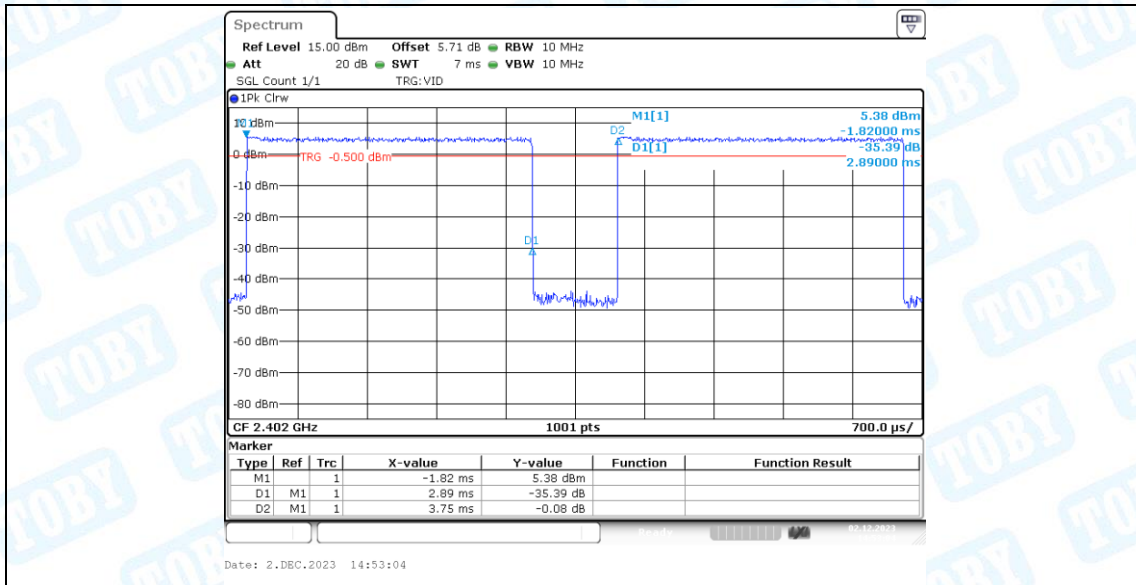


2DH5\_Ant1\_2480

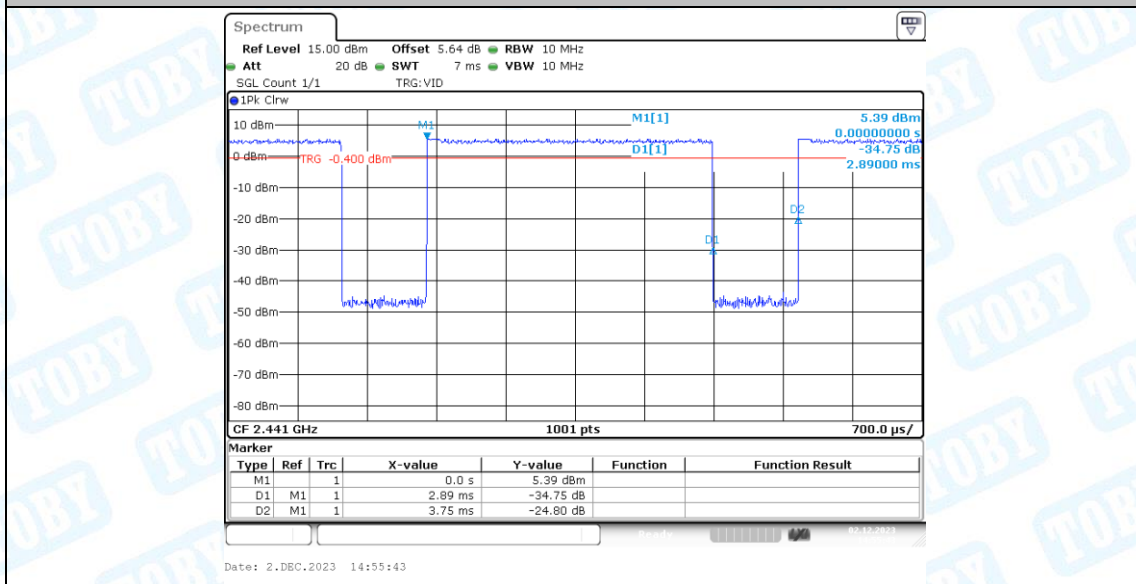


3DH5\_Ant1\_2402

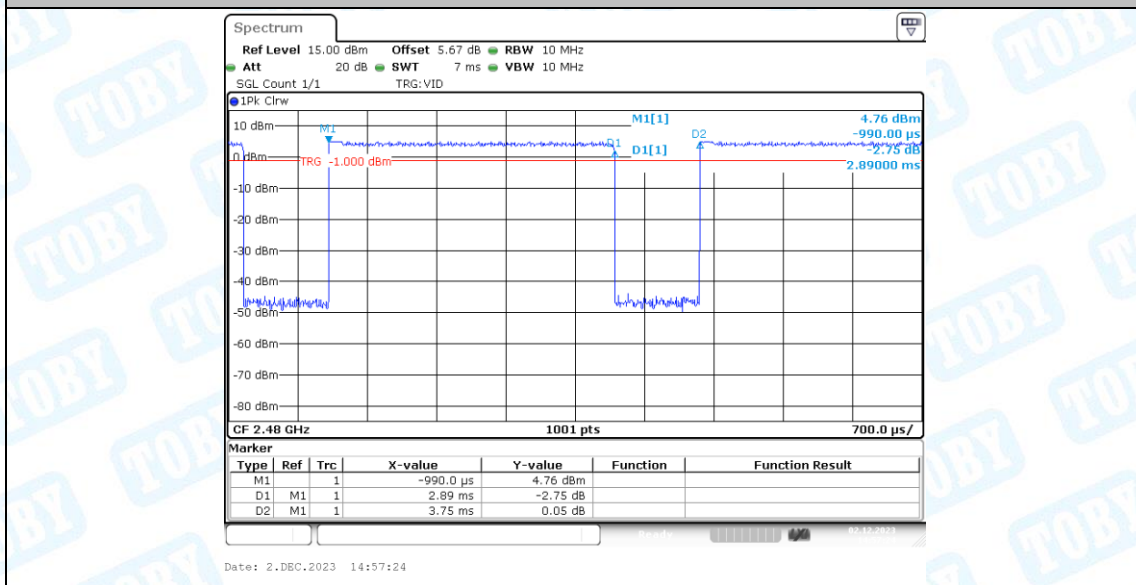




3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## 10. Emissions in Restricted Bands

### 10.1. Test Result

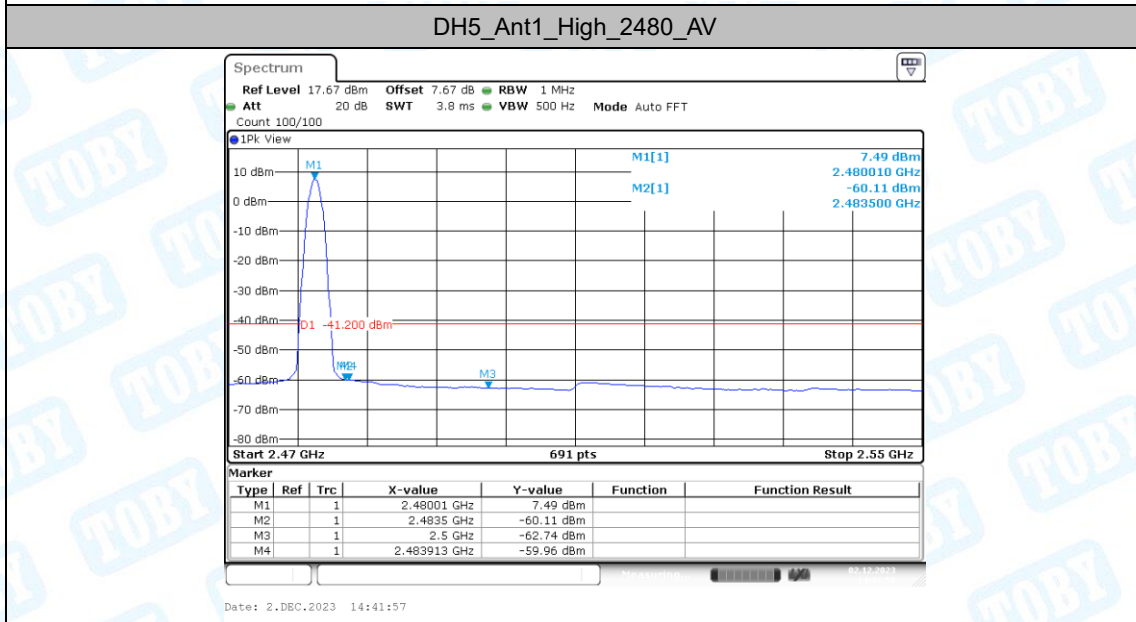
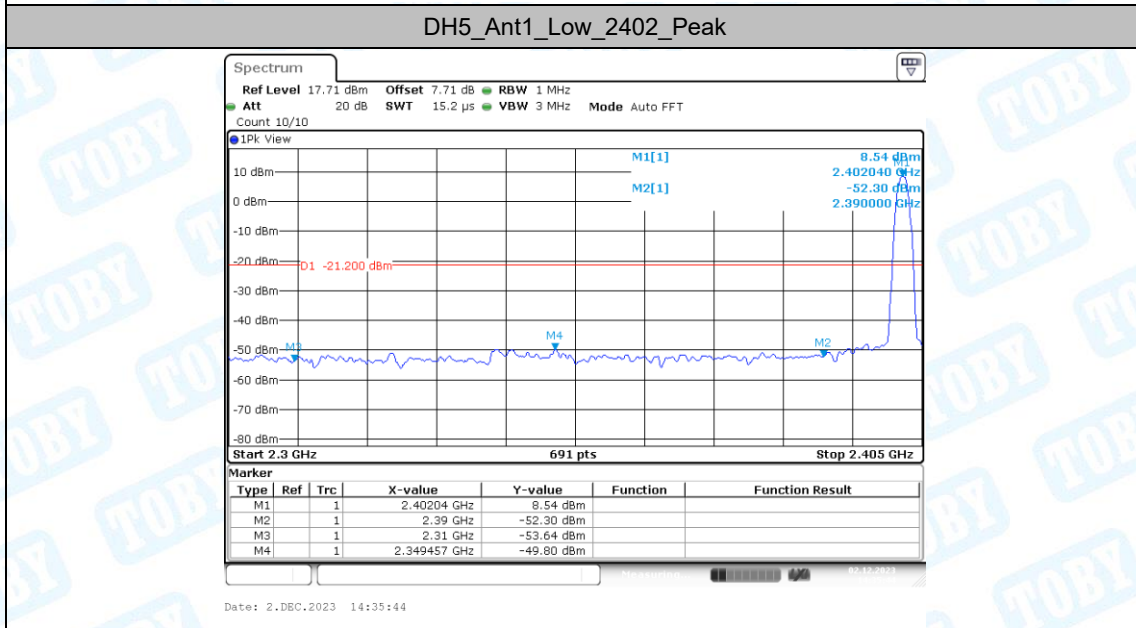
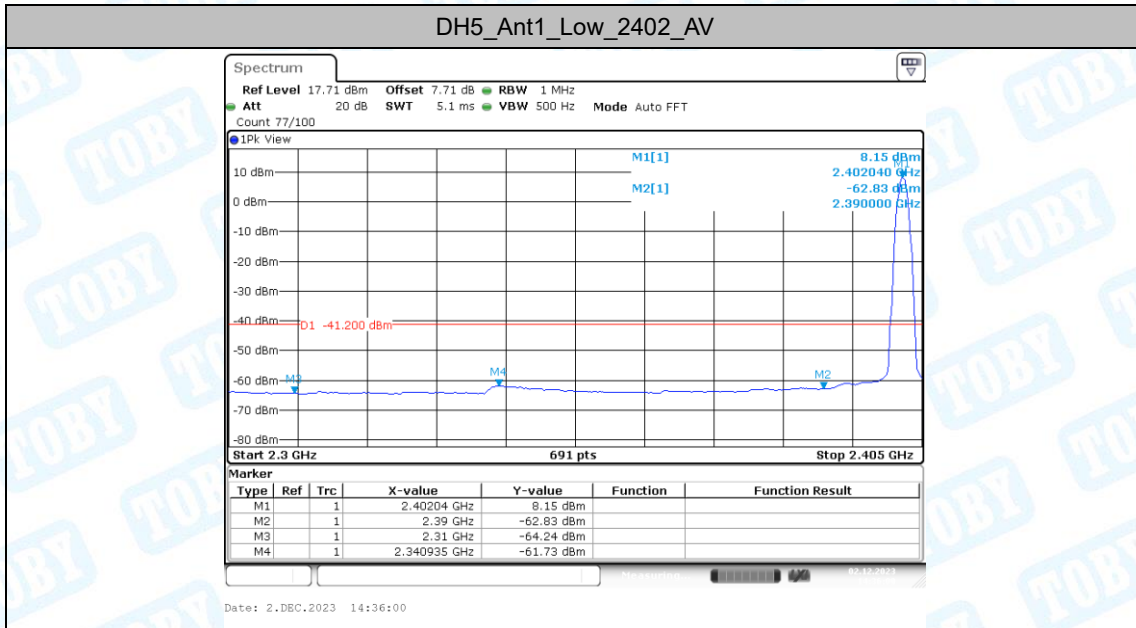
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-64.24	≤-41.20	PASS
				AV	2340.935	-61.73	≤-41.20	PASS
				AV	2390.000	-62.83	≤-41.20	PASS
				Peak	2310.000	-53.64	≤-21.20	PASS
				Peak	2349.457	-49.8	≤-21.20	PASS
				Peak	2390.000	-52.3	≤-21.20	PASS
		High	2480	AV	2483.500	-60.11	≤-41.20	PASS
				AV	2483.913	-59.96	≤-41.20	PASS
				AV	2500.000	-62.74	≤-41.20	PASS
				Peak	2483.500	-51.26	≤-21.20	PASS
				Peak	2499.565	-45.73	≤-21.20	PASS
				Peak	2500.000	-47.04	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-64.37	≤-41.20	PASS
				AV	2340.326	-61.79	≤-41.20	PASS
				AV	2390.000	-62.77	≤-41.20	PASS
				Peak	2310.000	-51.86	≤-21.20	PASS
				Peak	2340.935	-49.69	≤-21.20	PASS
				Peak	2390.000	-51.85	≤-21.20	PASS
		High	2480	AV	2483.500	-59.77	≤-41.20	PASS
				AV	2483.565	-59.79	≤-41.20	PASS
				AV	2500.000	-62.83	≤-41.20	PASS
				Peak	2483.500	-50.91	≤-21.20	PASS
				Peak	2485.884	-48.75	≤-21.20	PASS
				Peak	2500.000	-51.16	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-64.43	≤-41.20	PASS
				AV	2340.935	-61.86	≤-41.20	PASS
				AV	2390.000	-62.72	≤-41.20	PASS
				Peak	2310.000	-54.17	≤-21.20	PASS
				Peak	2342.609	-49.52	≤-21.20	PASS
				Peak	2390.000	-52.33	≤-21.20	PASS
		High	2480	AV	2483.500	-59.73	≤-41.20	PASS
				AV	2483.565	-59.7	≤-41.20	PASS
				AV	2500.000	-62.94	≤-41.20	PASS
				Peak	2483.500	-50.88	≤-21.20	PASS
				Peak	2484.261	-48.51	≤-21.20	PASS
				Peak	2500.000	-50.18	≤-21.20	PASS

Note:

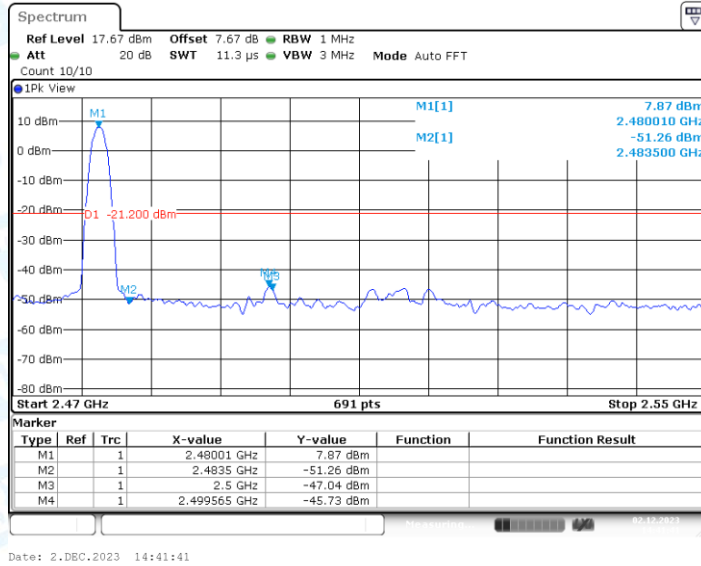
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The

limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

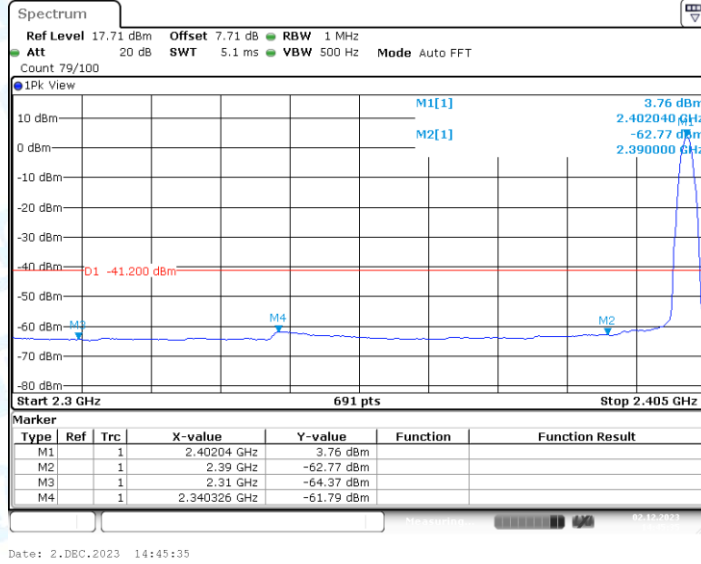
### 10.2. Test Graphs



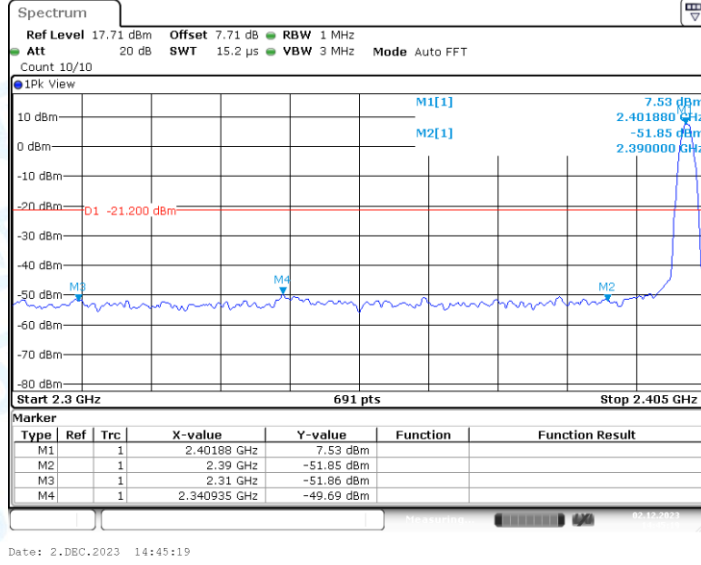
DH5\_Ant1\_High\_2480\_Peak



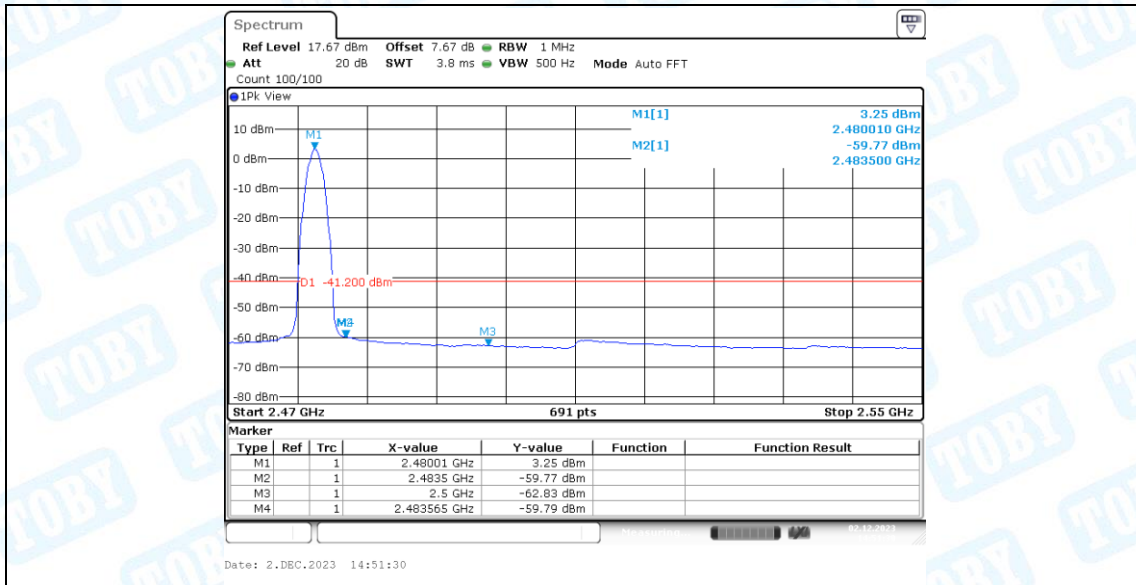
2DH5\_Ant1\_Low\_2402\_AV



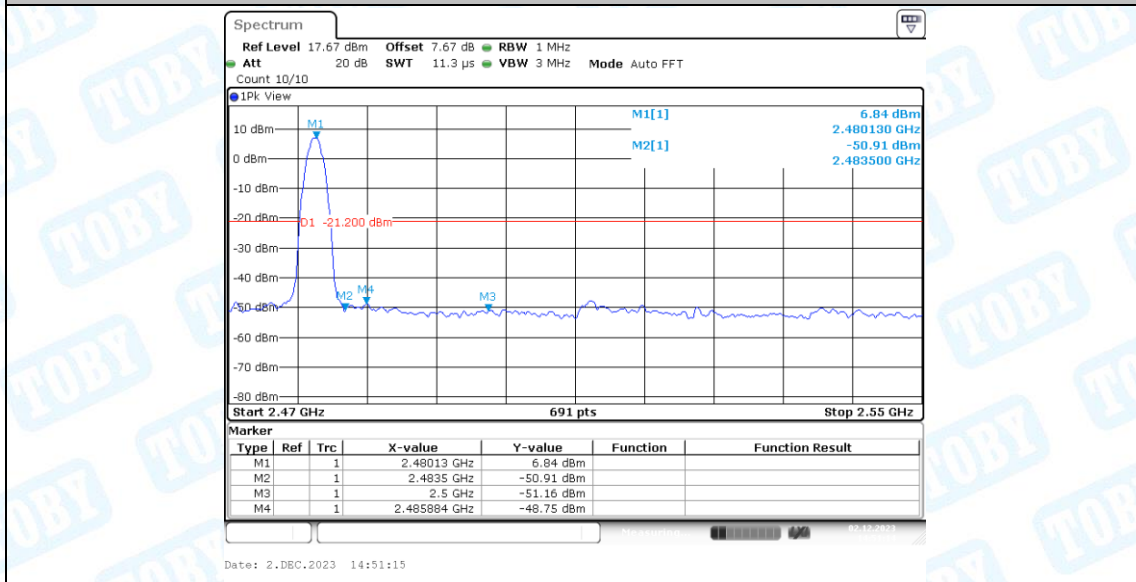
2DH5\_Ant1\_Low\_2402\_Peak



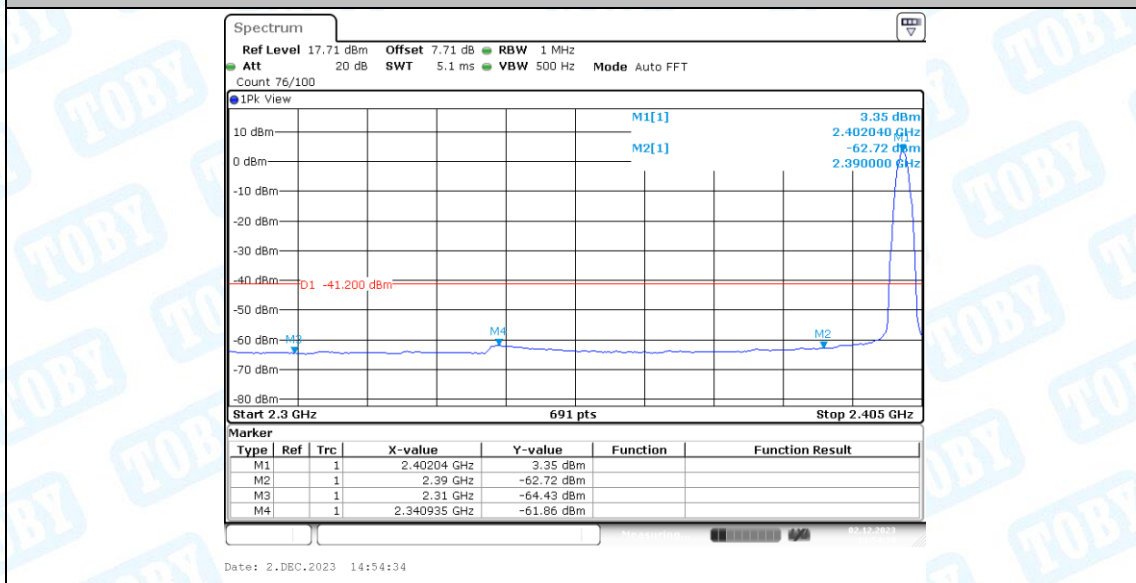
2DH5\_Ant1\_High\_2480\_AV



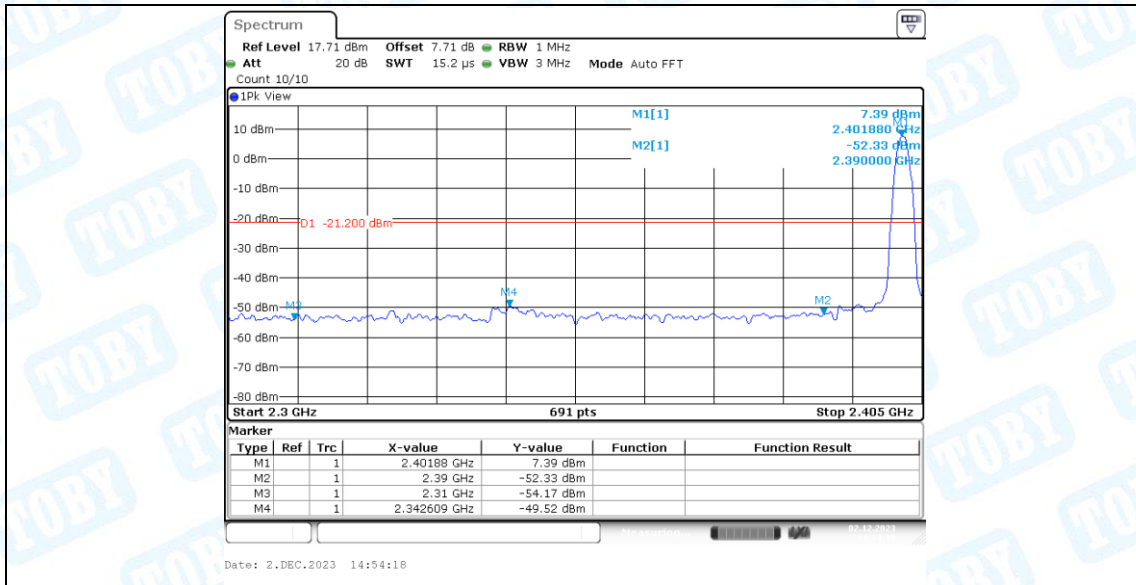
2DH5\_Ant1\_High\_2480\_Peak



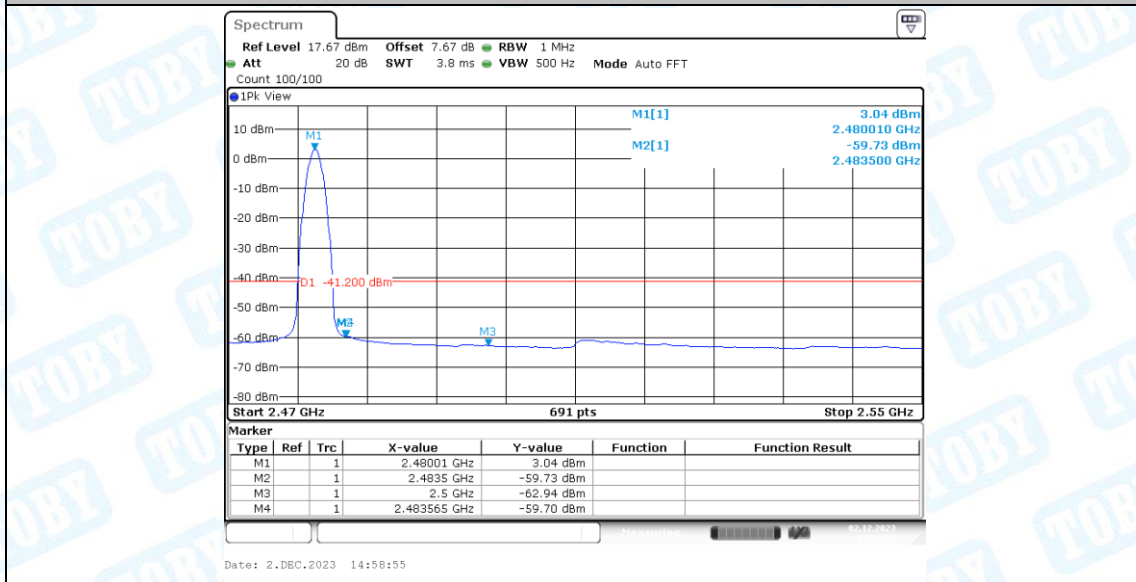
3DH5\_Ant1\_Low\_2402\_AV



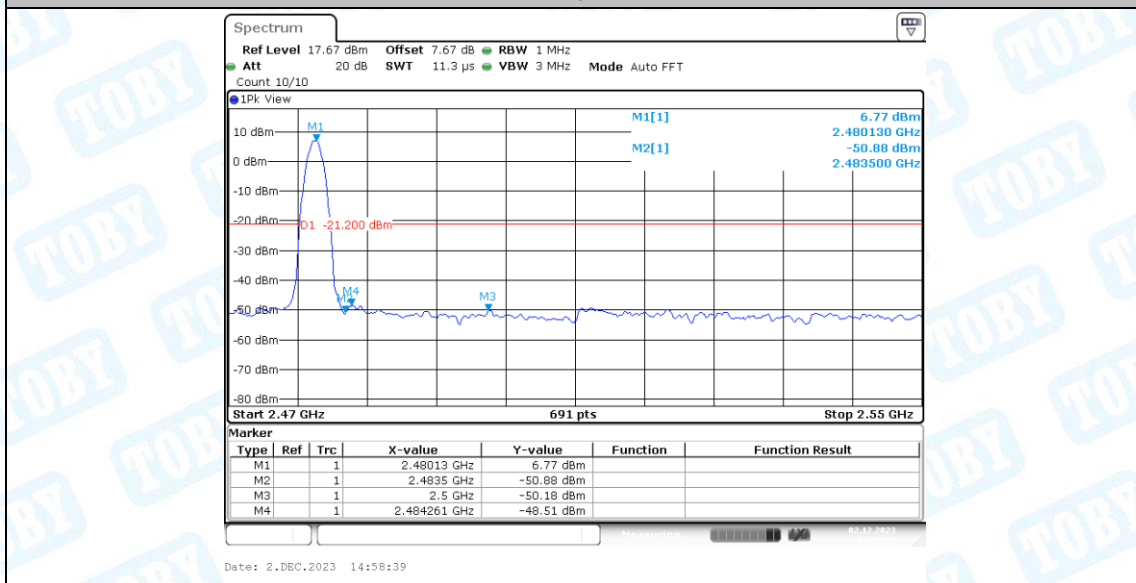
3DH5\_Ant1\_Low\_2402\_Peak



3DH5\_Ant1\_High\_2480\_AV



3DH5\_Ant1\_High\_2480\_Peak



-----End of the report-----