

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

General Description of EUT	
Product Name:	Audio cajon
Test Model:	GA-audio1
Sample ID:	202307-0030-6-2#
Environmental Conditions	
Temperature:	24°C
Relative Humidity:	50%
Test Voltage:	DC 12.6V
Test Engineer:	Liyijingjing
Note: For a more detailed features description, please refer to the report TBR-C-202307-0030-51	

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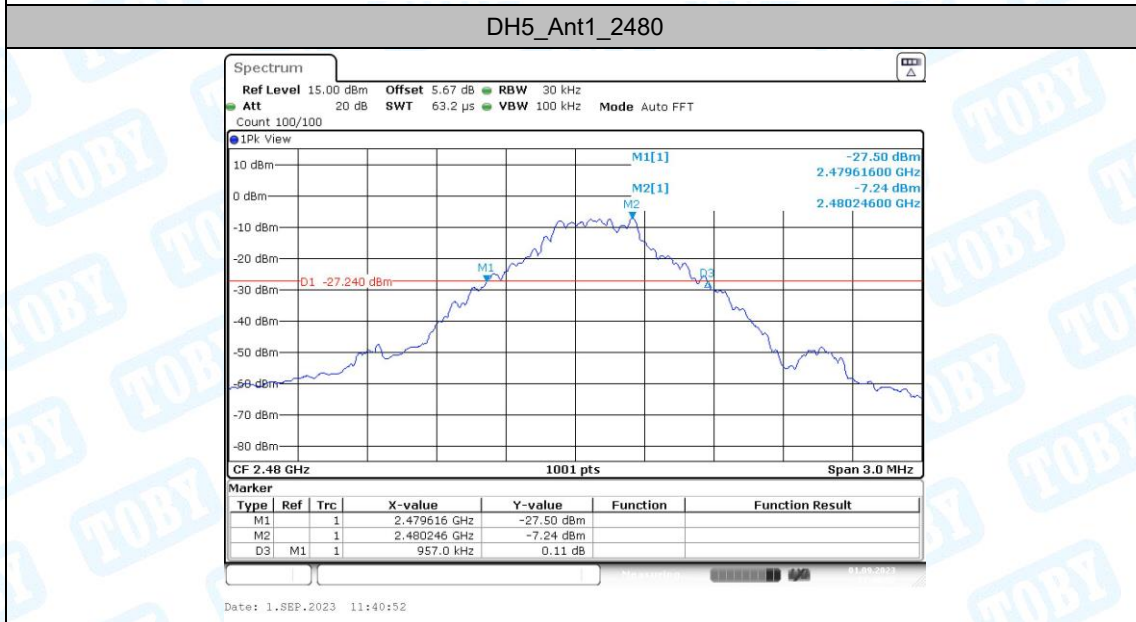
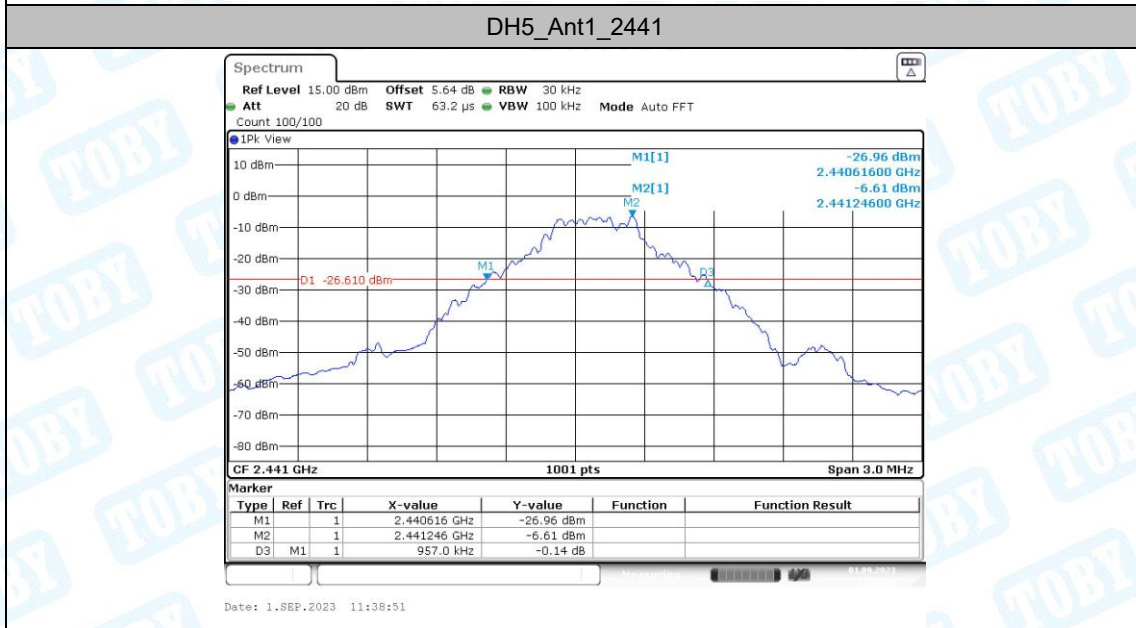
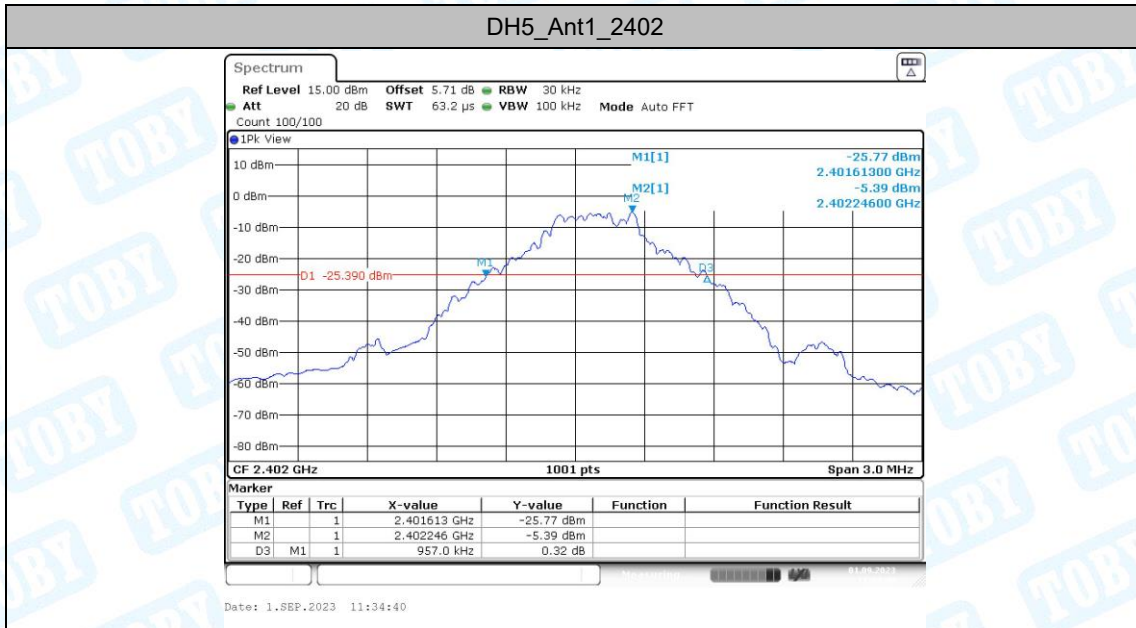
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1. 20dB Emission Bandwidth

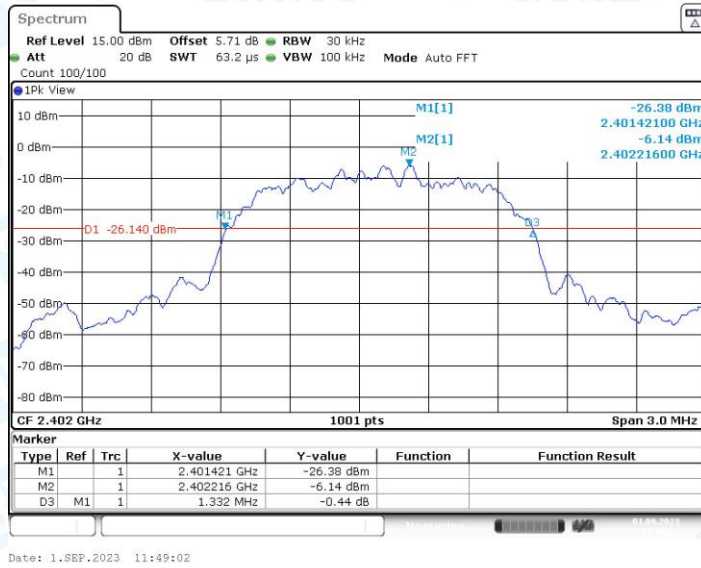
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.96	---	---
		2441	0.96	---	---
		2480	0.96	---	---
2DH5	Ant1	2402	1.33	---	---
		2441	1.33	---	---
		2480	1.31	---	---
3DH5	Ant1	2402	1.30	---	---
		2441	1.29	---	---
		2480	1.29	---	---

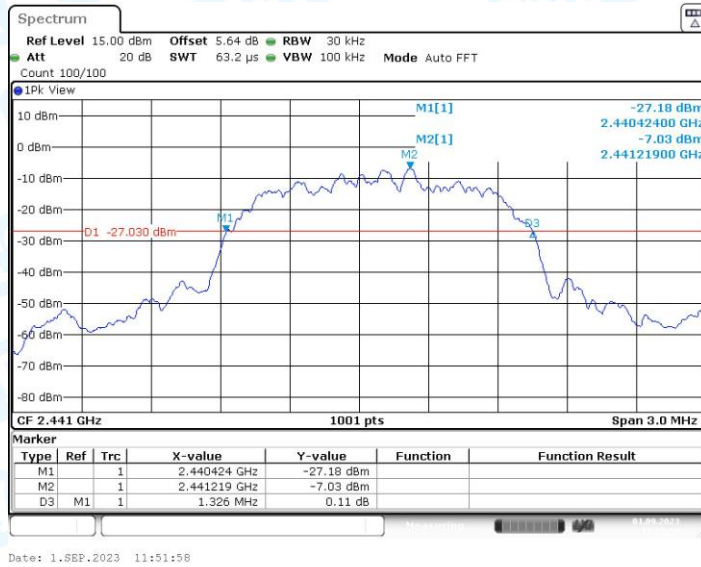
1.2. Test Graphs



2DH5_Ant1_2402



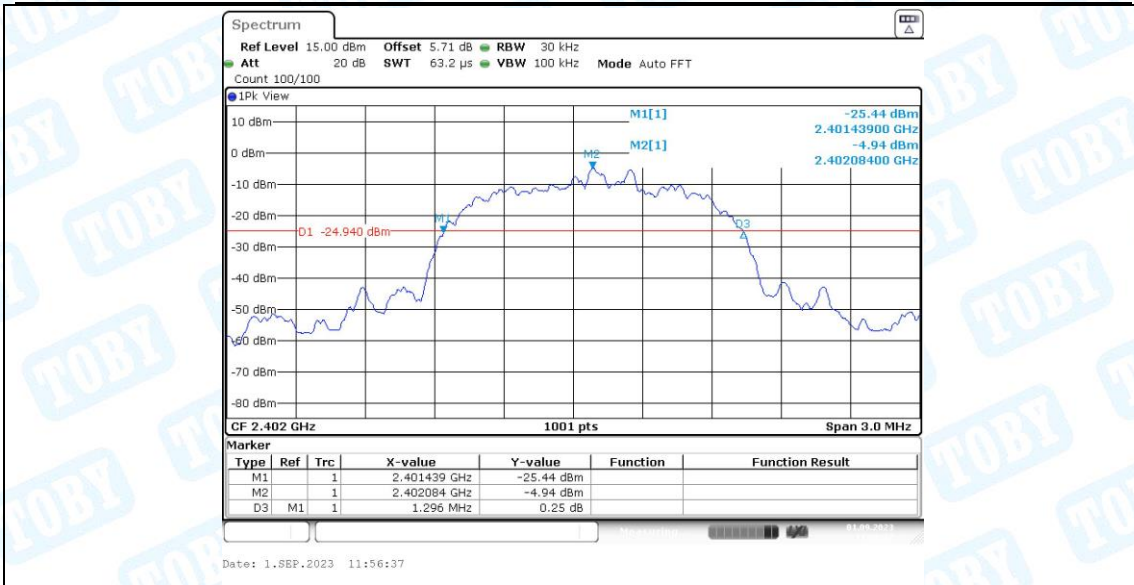
2DH5_Ant1_2441



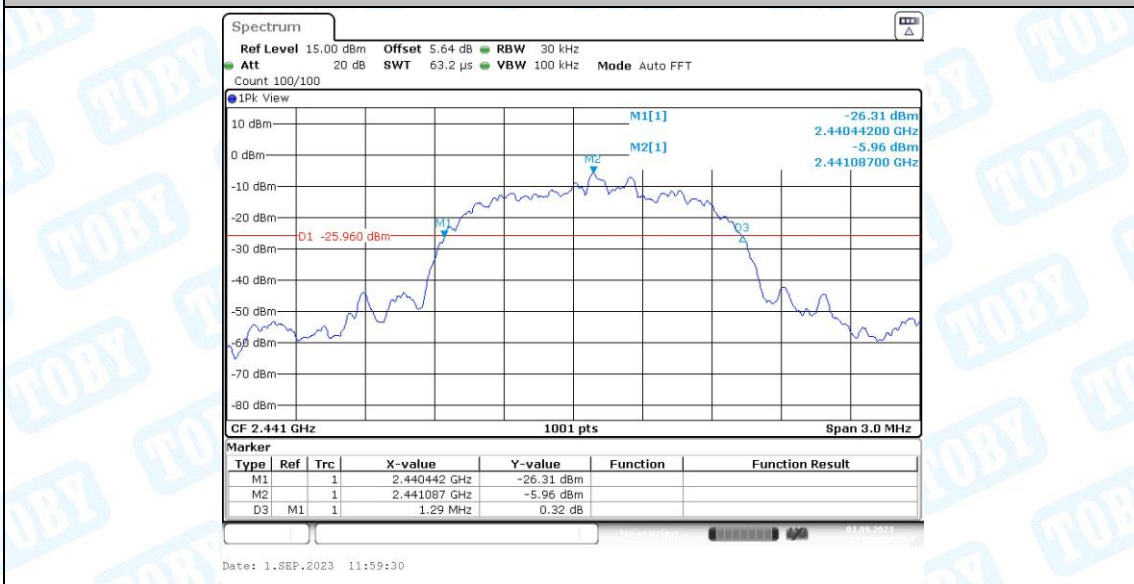
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

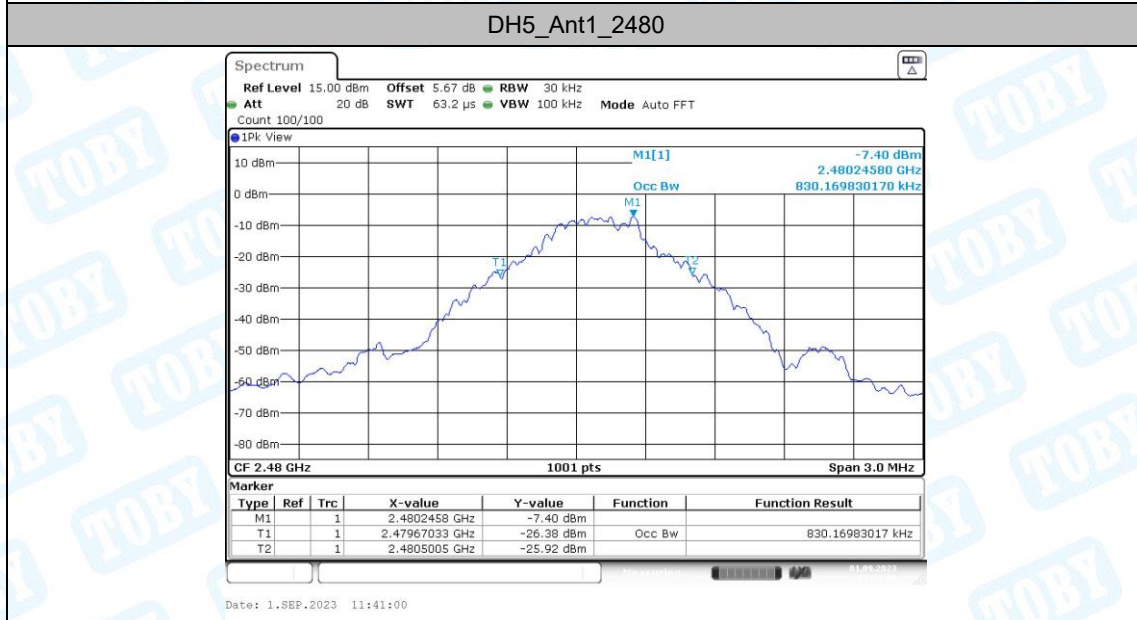
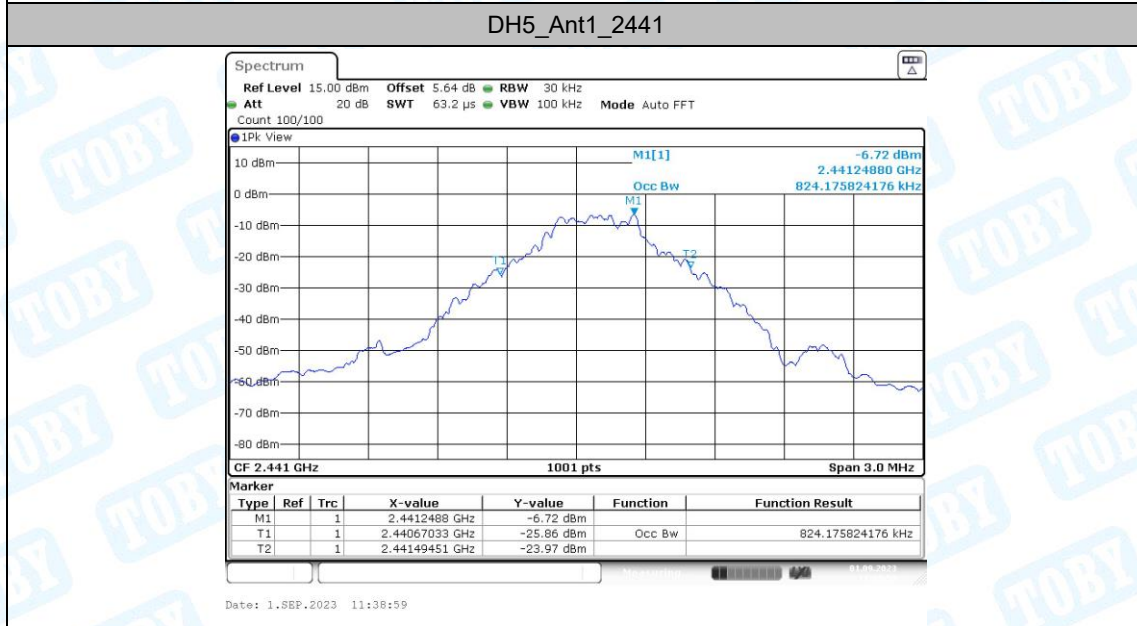
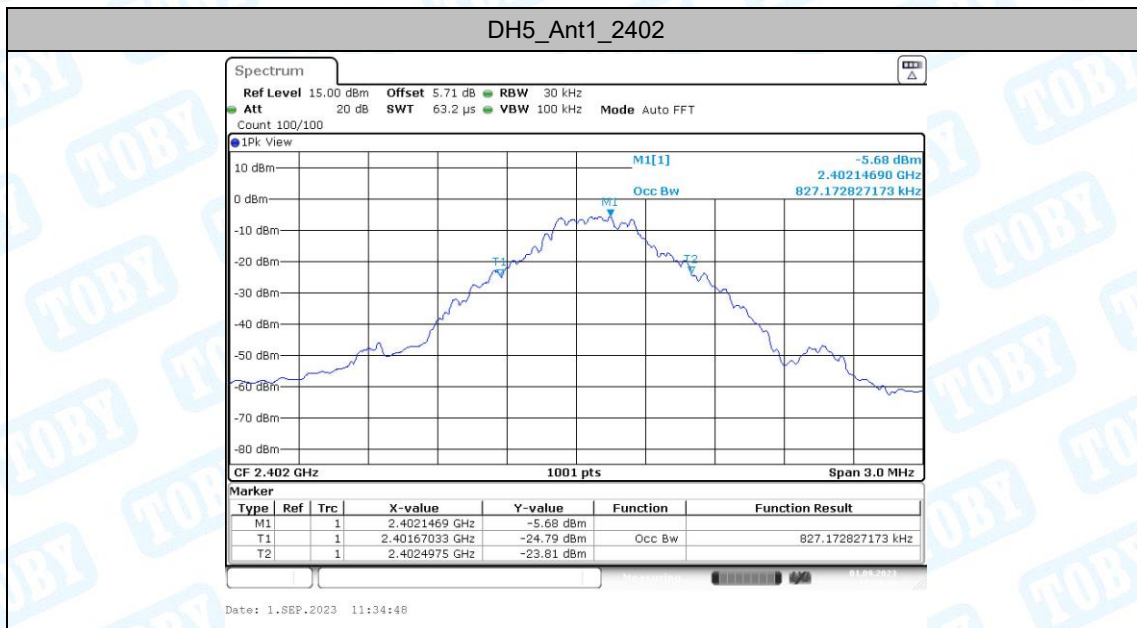


2. Occupied Channel Bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.827	2401.6703	2402.4975	---	---
		2441	0.824	2440.6703	2441.4945	---	---
		2480	0.83	2479.6703	2480.5005	---	---
2DH5	Ant1	2402	1.169	2401.4995	2402.6683	---	---
		2441	1.169	2440.4995	2441.6683	---	---
		2480	1.169	2479.5025	2480.6713	---	---
3DH5	Ant1	2402	1.166	2401.5055	2402.6713	---	---
		2441	1.166	2440.5055	2441.6713	---	---
		2480	1.169	2479.5055	2480.6743	---	---

2.2. Test Graphs



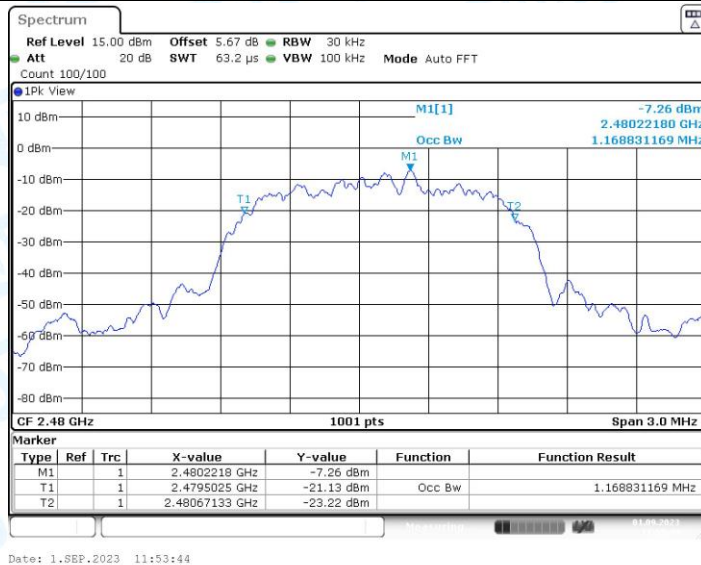
2DH5_Ant1_2402



2DH5_Ant1_2441



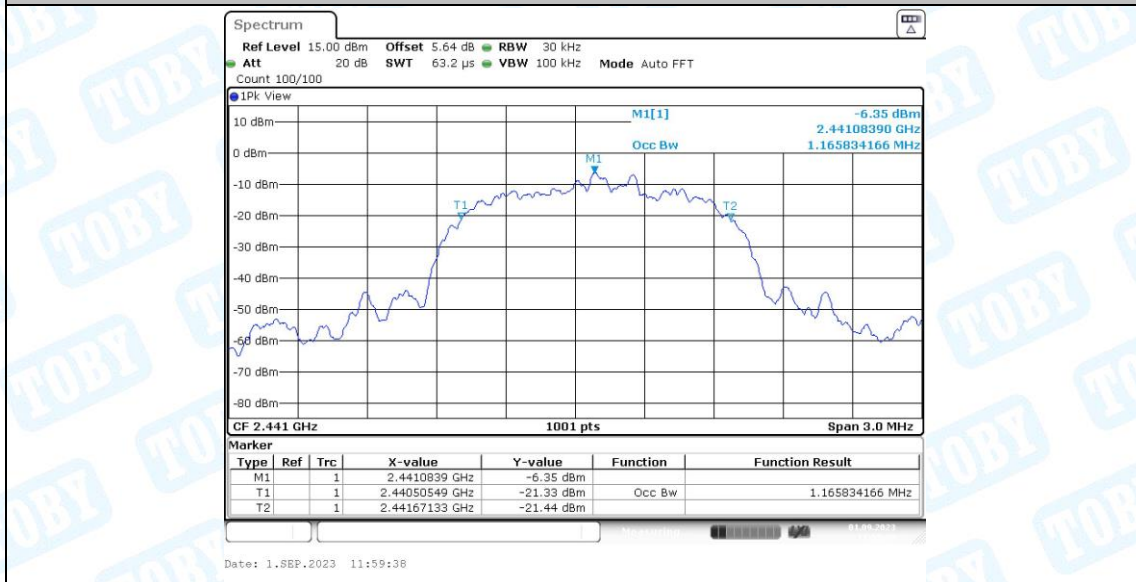
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



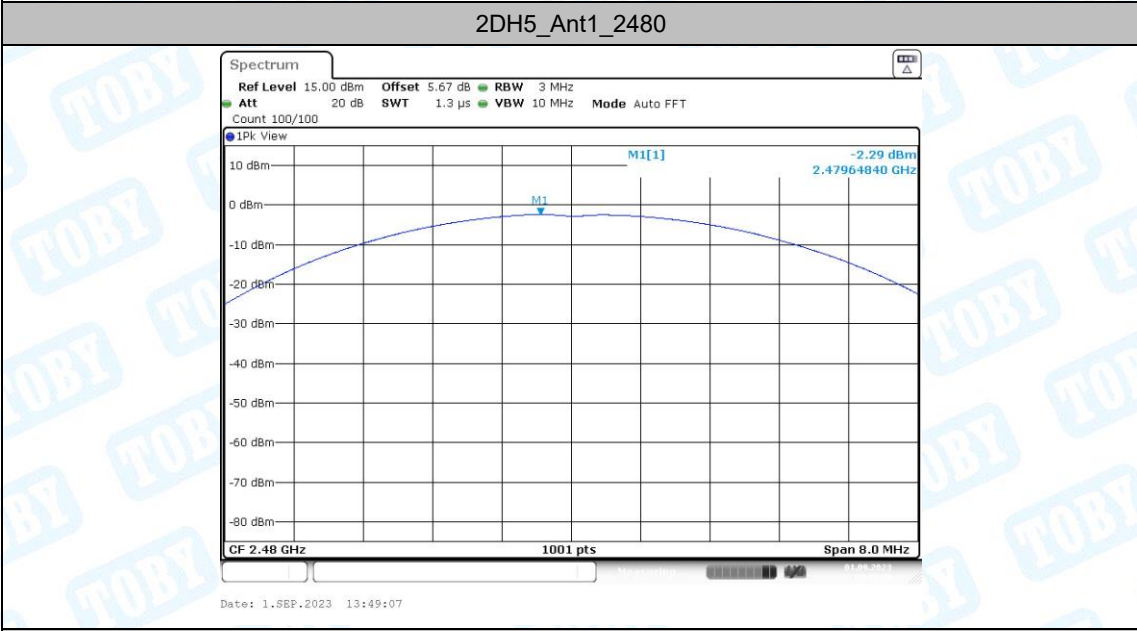
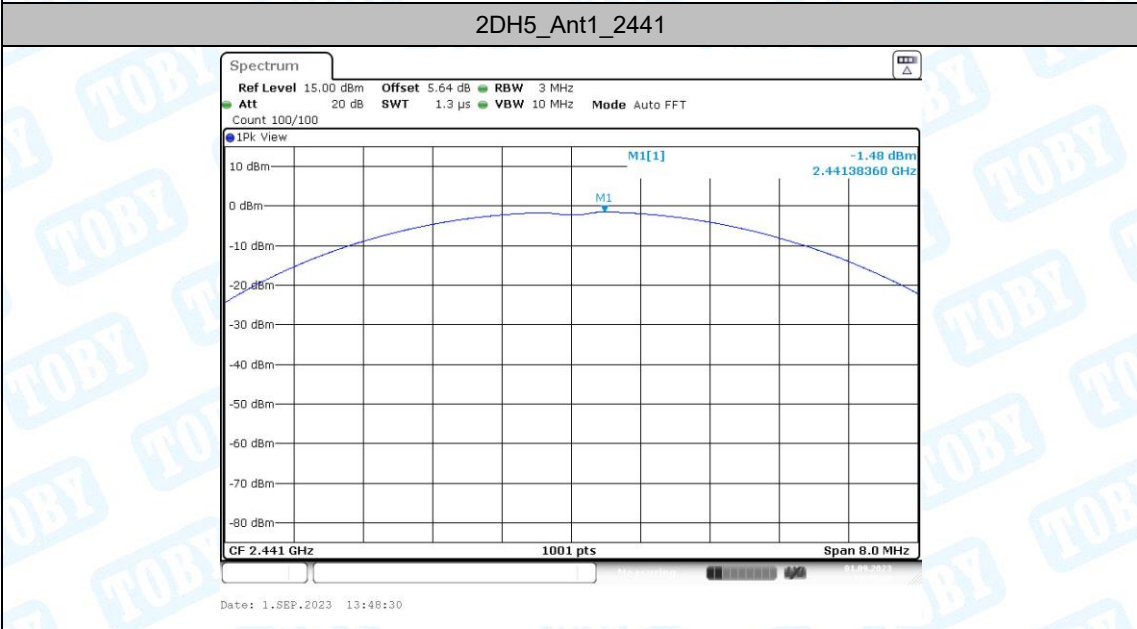
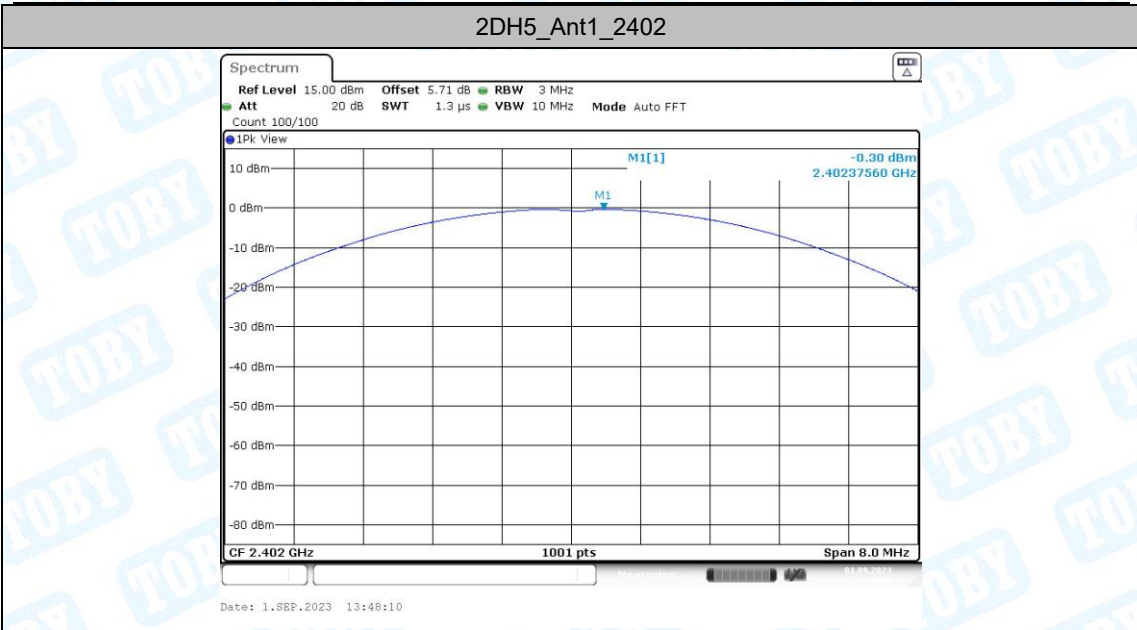
3. Maximum conducted output power

3.1. Test Result

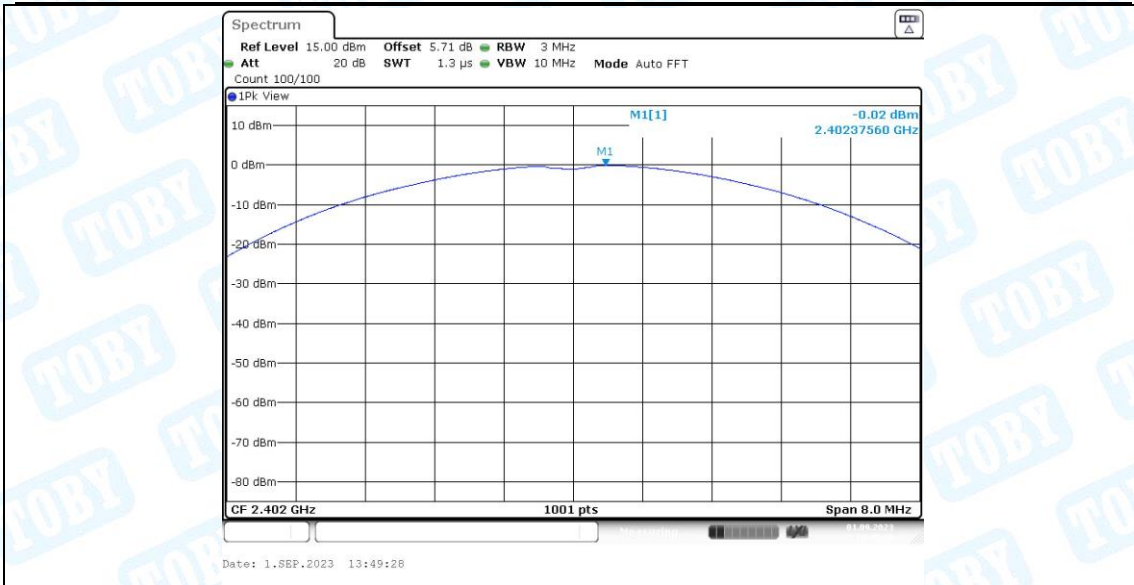
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.53	≤30	PASS
		2441	-3.73	≤30	PASS
		2480	-4.4	≤30	PASS
2DH5	Ant1	2402	-0.3	≤20.97	PASS
		2441	-1.48	≤20.97	PASS
		2480	-2.29	≤20.97	PASS
3DH5	Ant1	2402	-0.02	≤20.97	PASS
		2441	-1.54	≤20.97	PASS
		2480	-1.82	≤20.97	PASS

3.2.Test Graphs

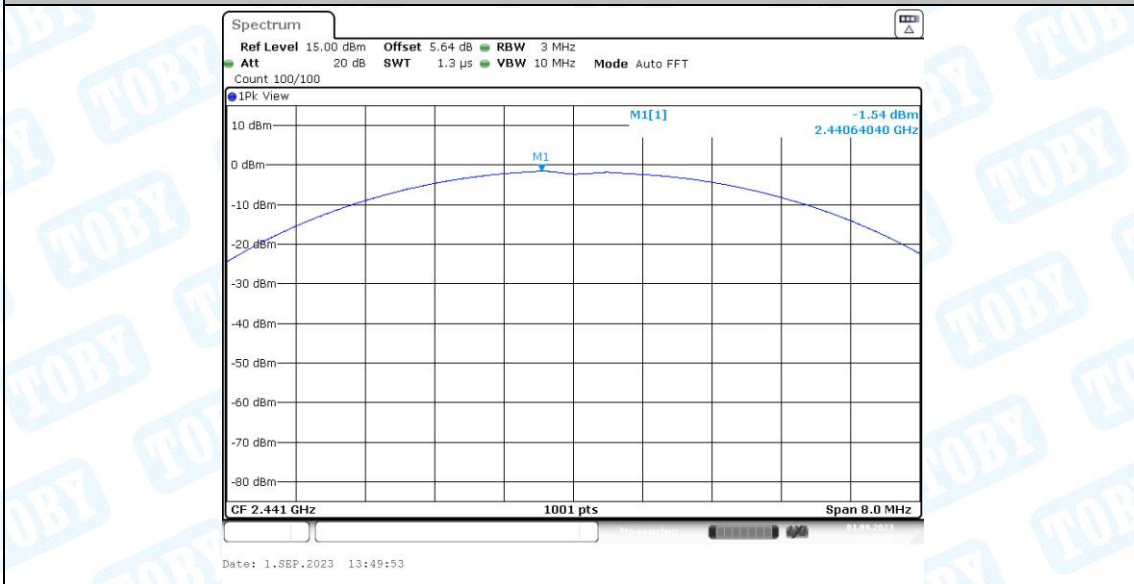




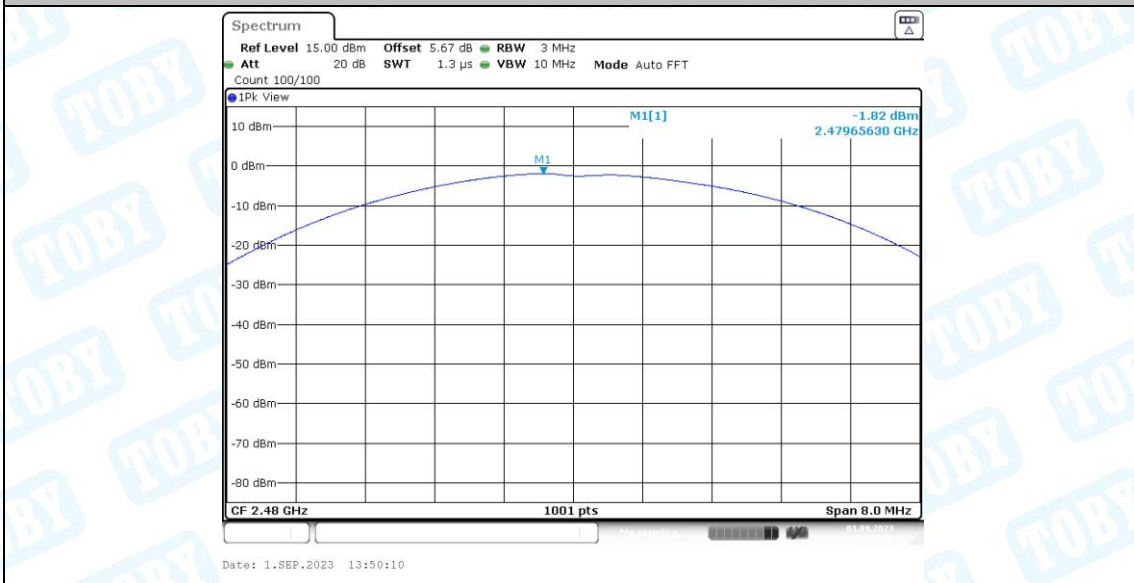
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

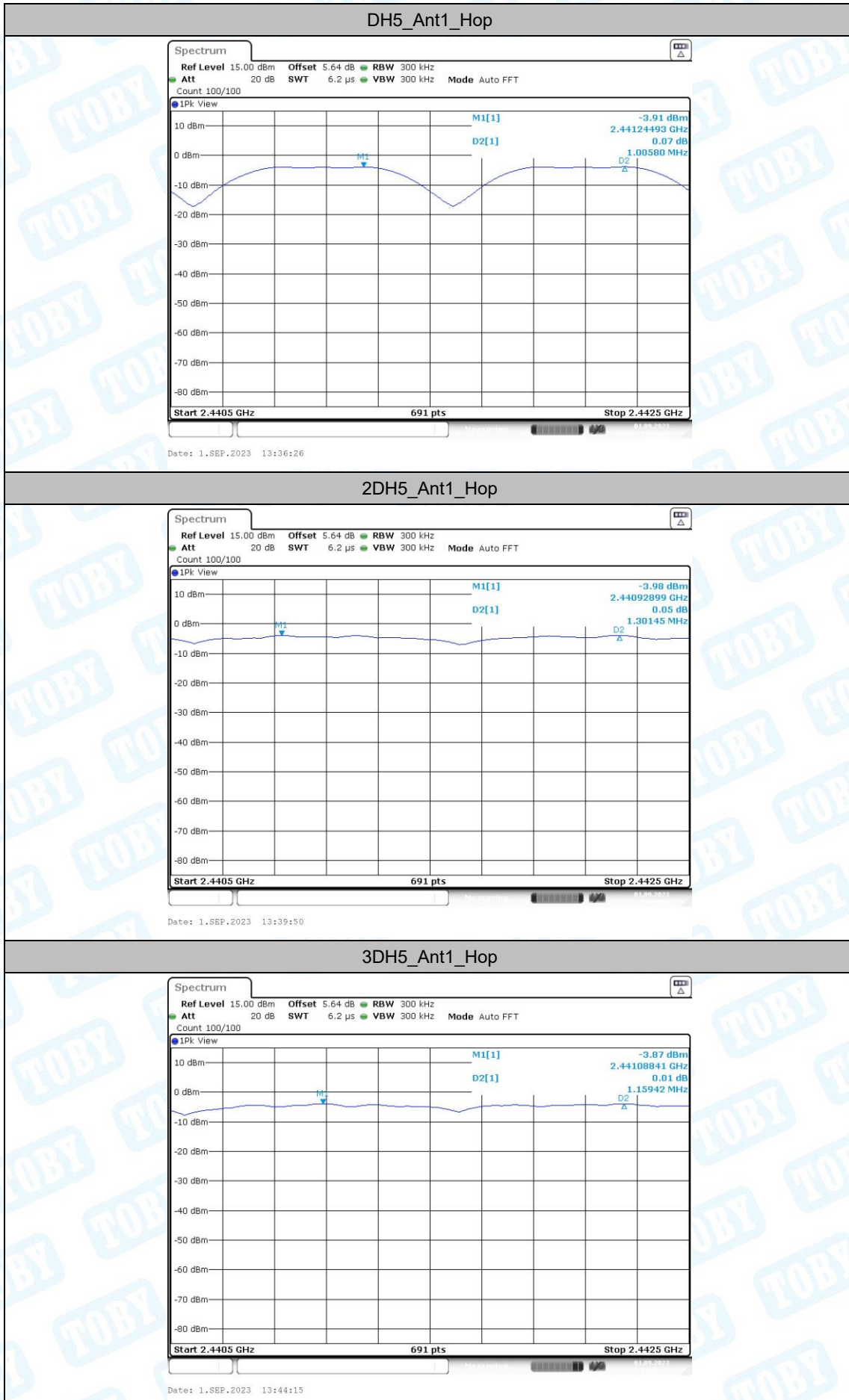


4. Carrier frequency separation

4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥0.960	PASS
2DH5	Ant1	Hop	1.301	≥0.887	PASS
3DH5	Ant1	Hop	1.159	≥0.867	PASS

4.2. Test Graphs

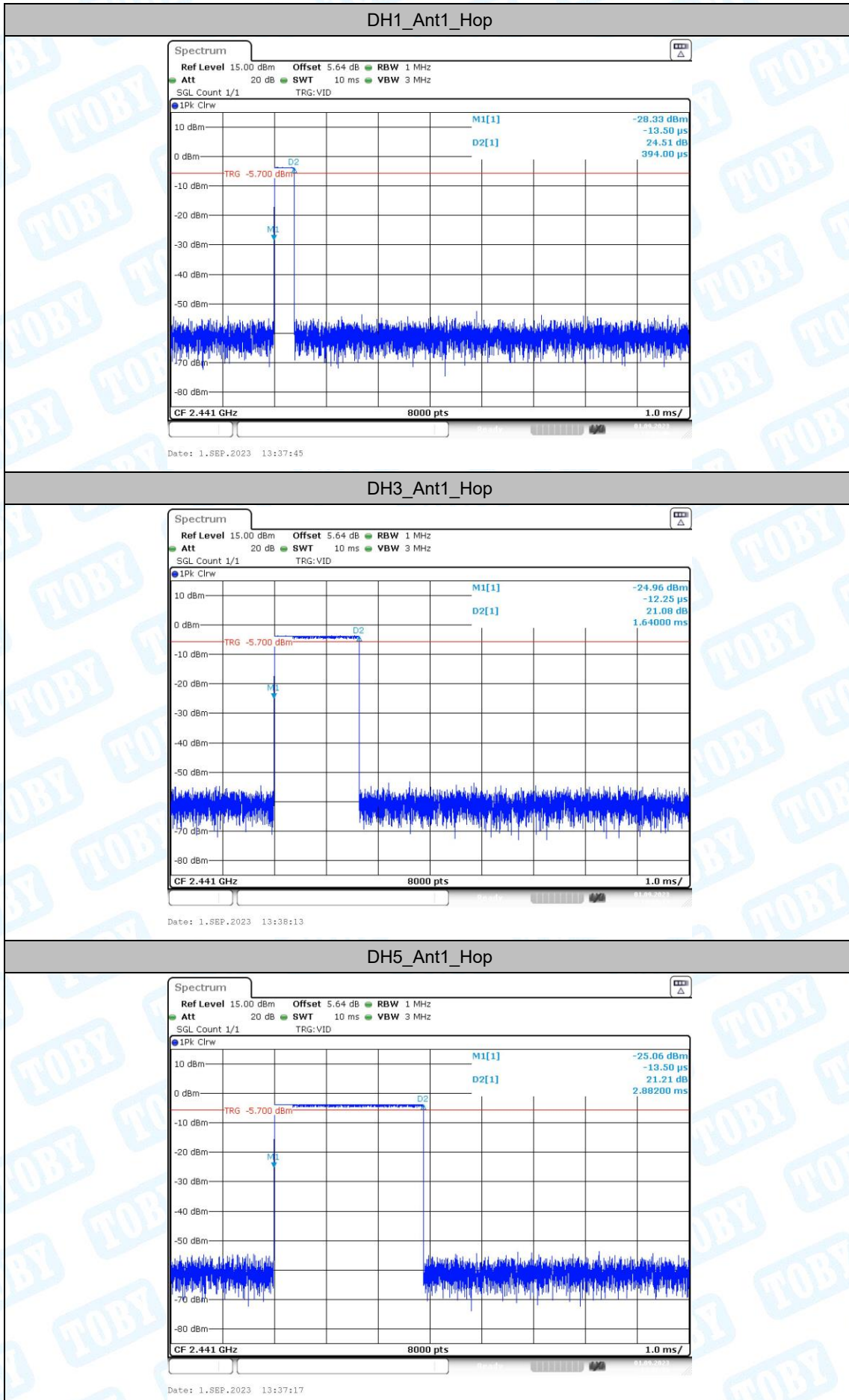


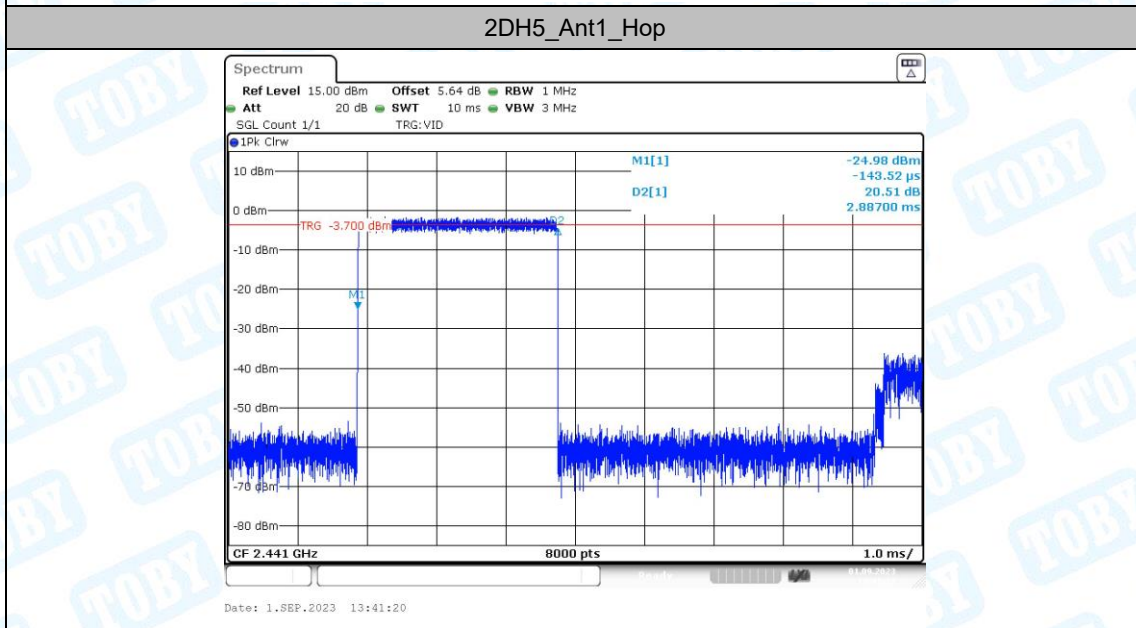
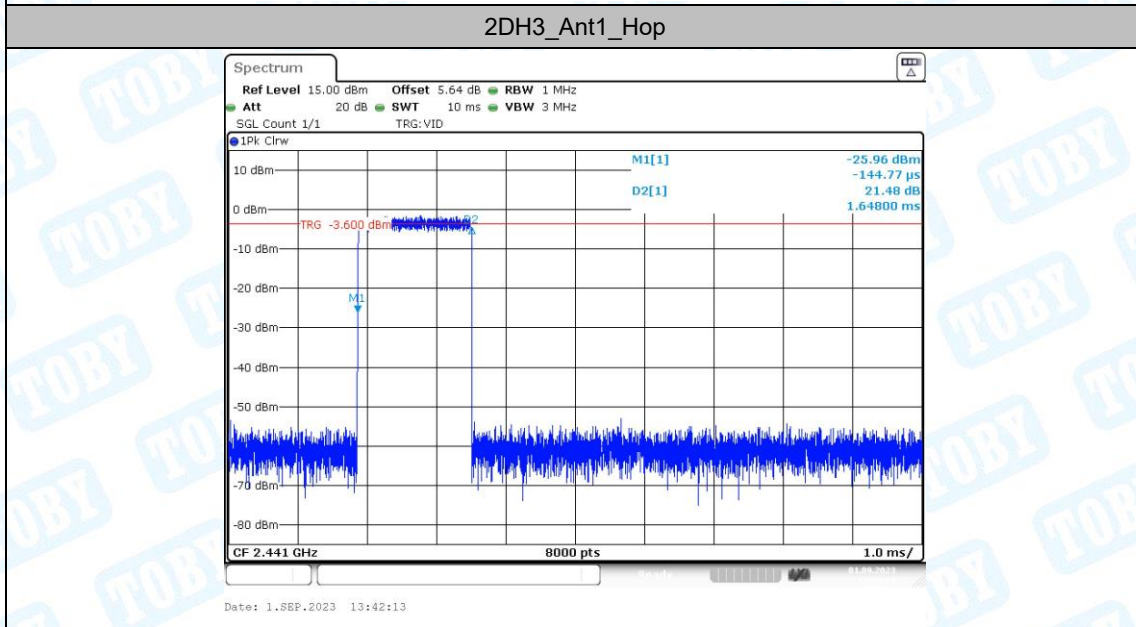
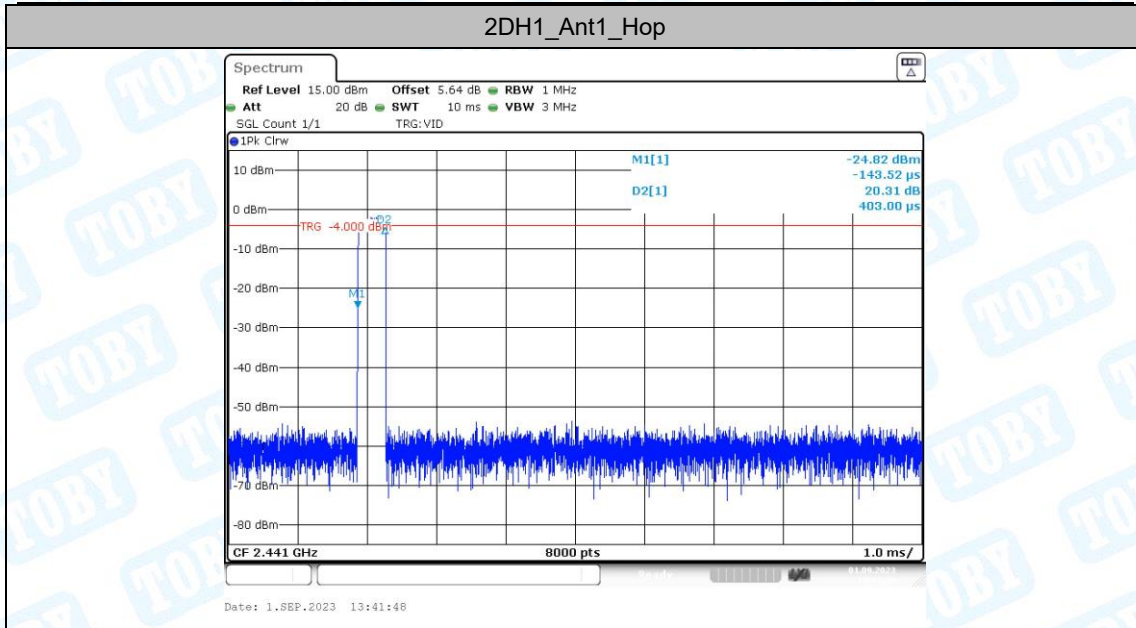
5. Time of occupancy

5.1. Test Result

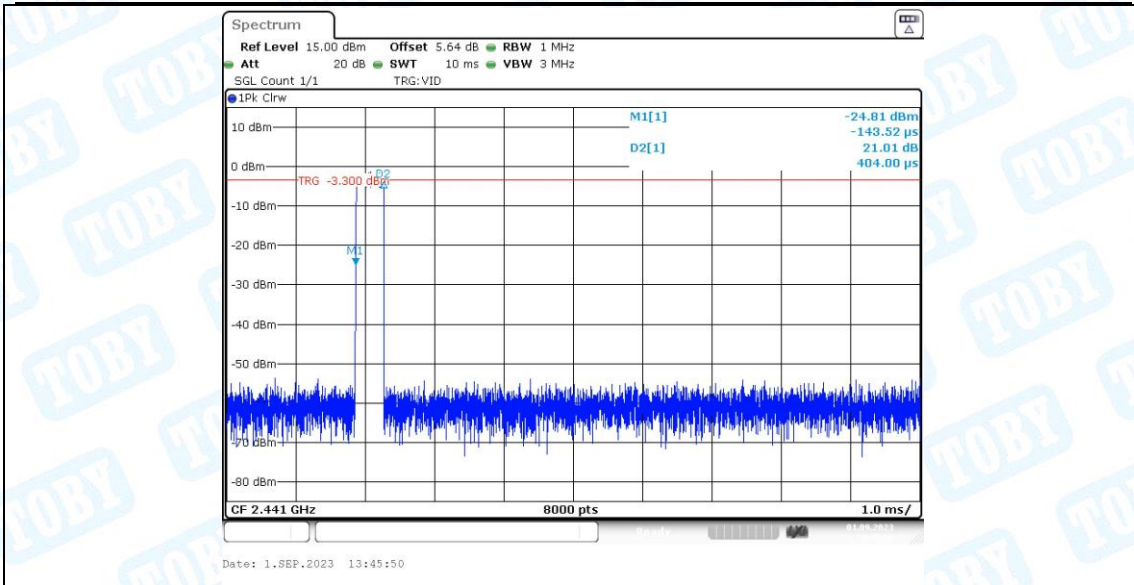
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.394	320	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.640	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.882	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.403	320	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.648	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.404	320	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.646	160	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.890	106.67	0.308	≤0.4	PASS

5.2. Test Graphs

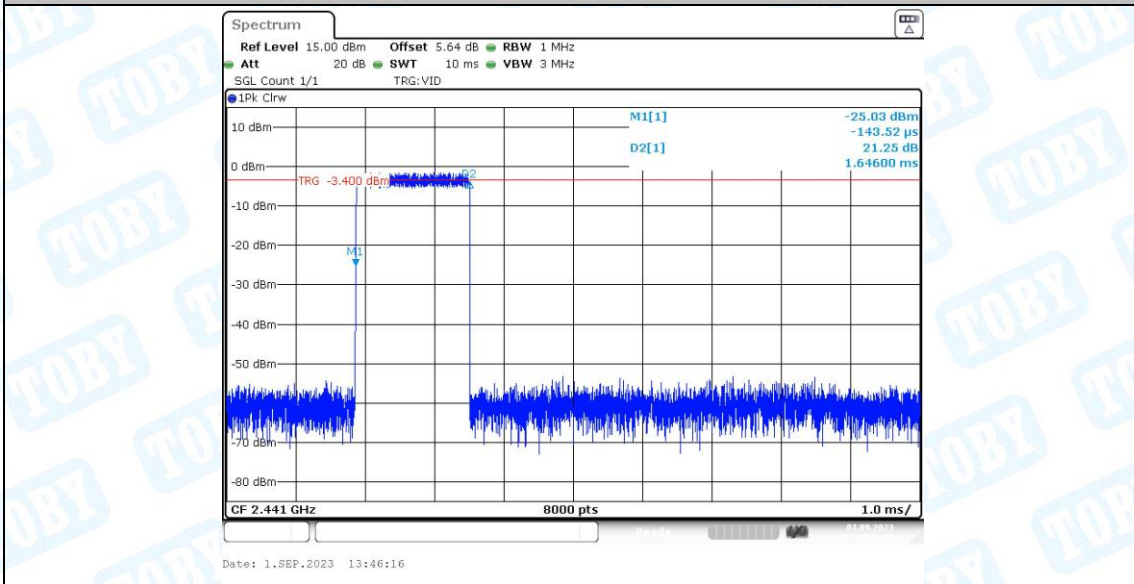




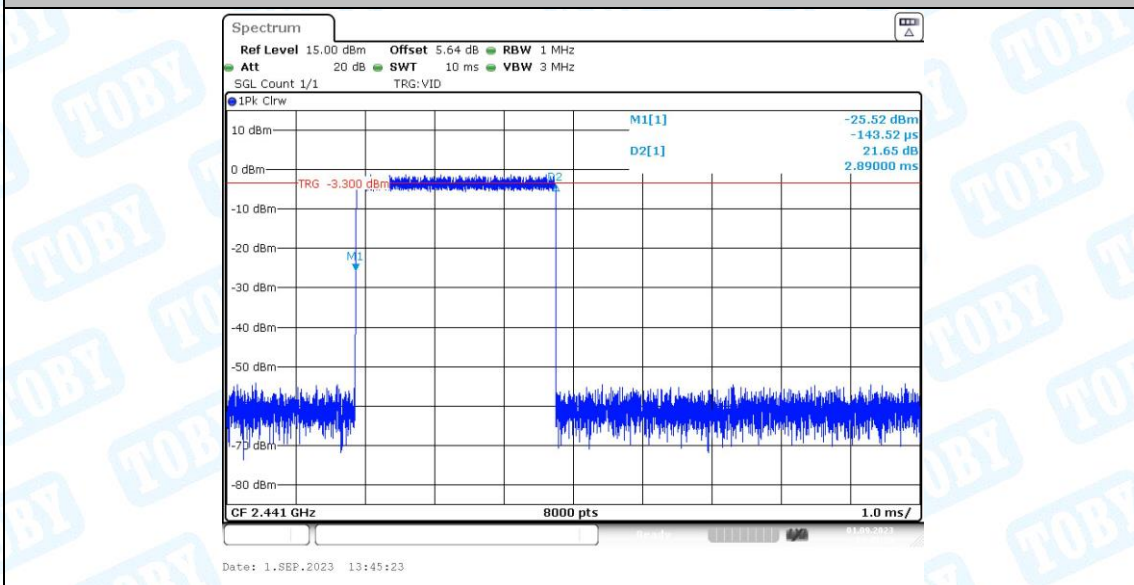
3DH1_Ant1_Hop



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

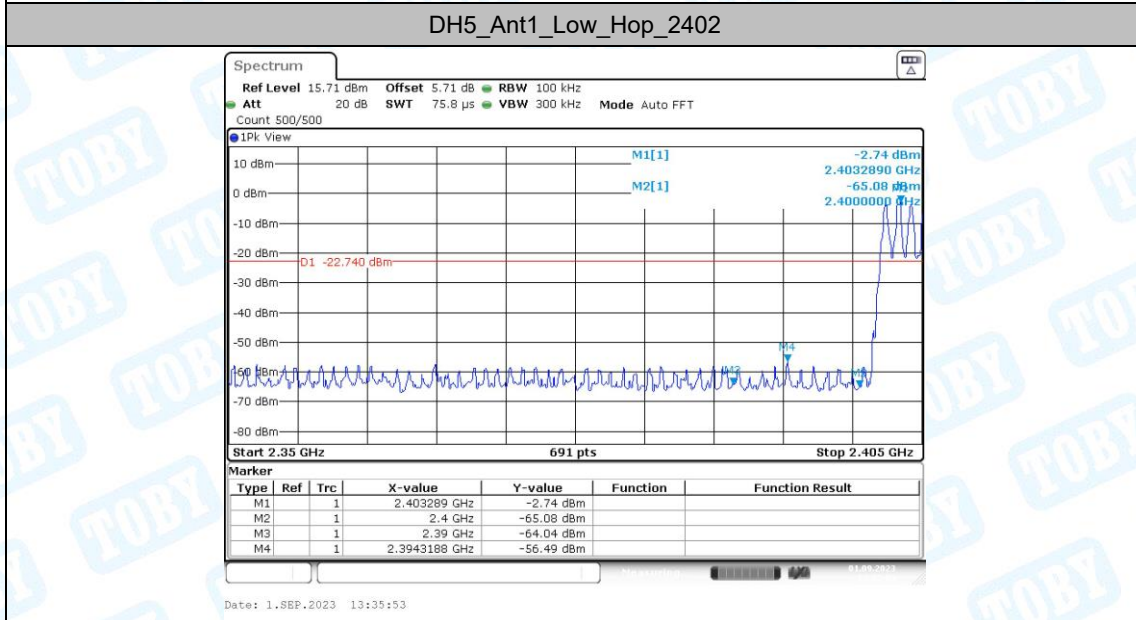
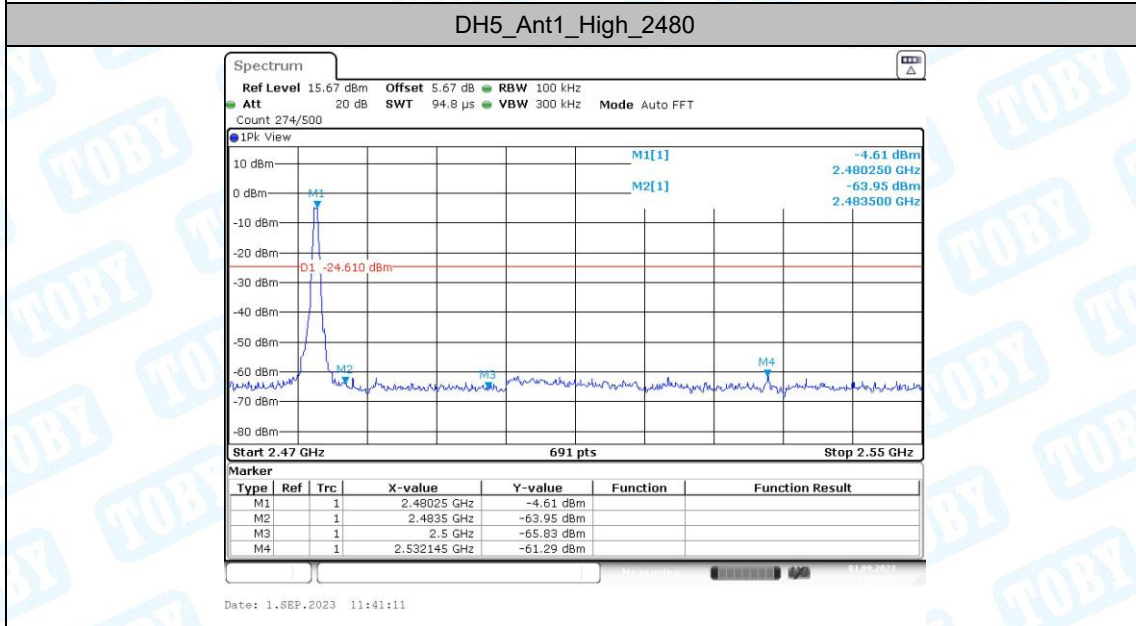
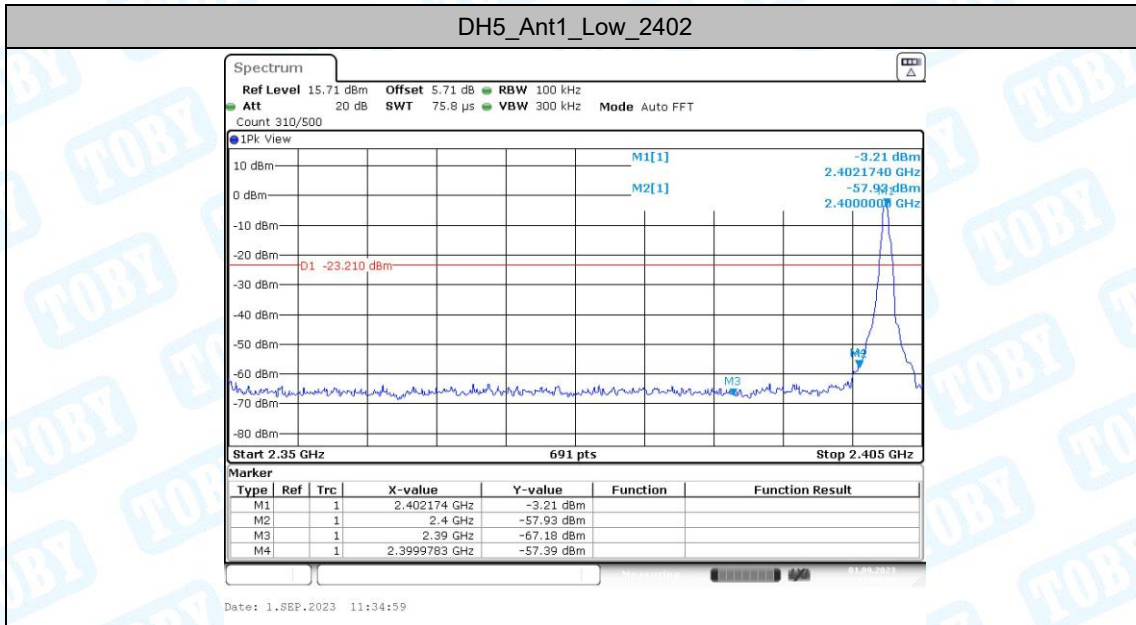


7. Band edge measurements

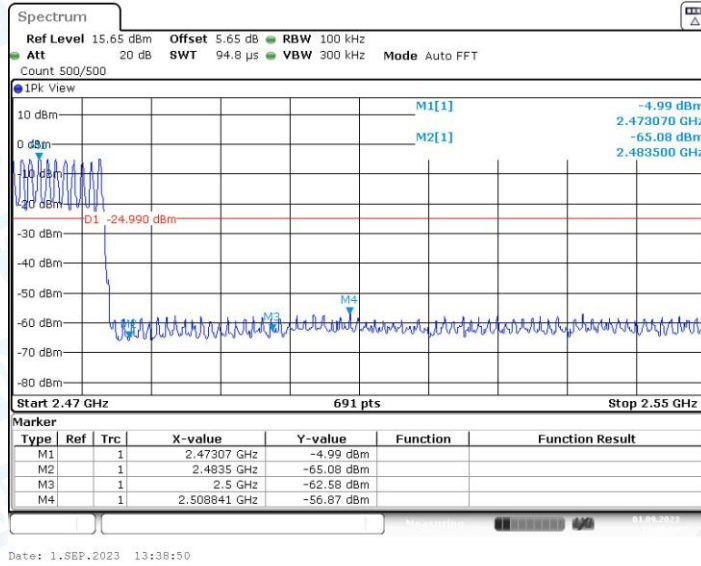
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.21	-57.39	≤-23.21	PASS
		High	2480	-4.61	-61.29	≤-24.61	PASS
		Low	Hop_2402	-2.74	-56.49	≤-22.74	PASS
		High	Hop_2480	-4.99	-56.87	≤-24.99	PASS
2DH5	Ant1	Low	2402	-2.96	-57	≤-22.96	PASS
		High	2480	-5.50	-61.57	≤-25.5	PASS
		Low	Hop_2402	-3.31	-58.62	≤-23.31	PASS
		High	Hop_2480	-5.44	-57.01	≤-25.44	PASS
3DH5	Ant1	Low	2402	-2.77	-57.52	≤-22.77	PASS
		High	2480	-4.39	-60.98	≤-24.39	PASS
		Low	Hop_2402	-6.71	-57.7	≤-26.71	PASS
		High	Hop_2480	-5.24	-55.31	≤-25.24	PASS

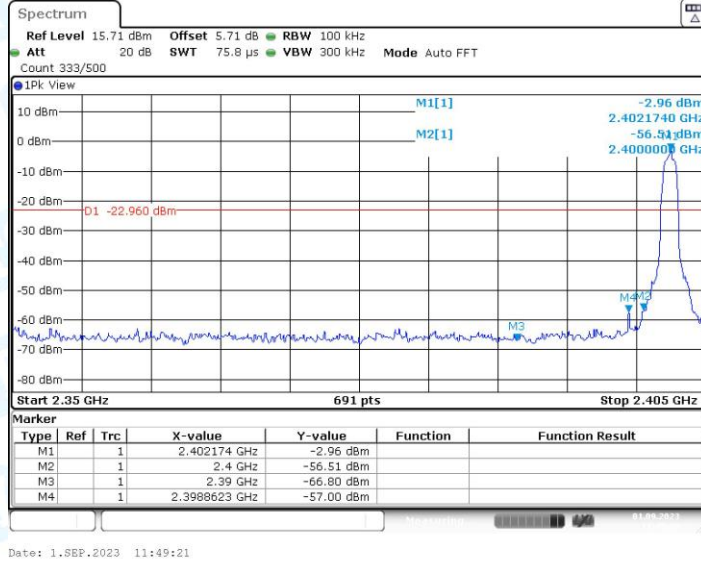
7.2. Test Graphs



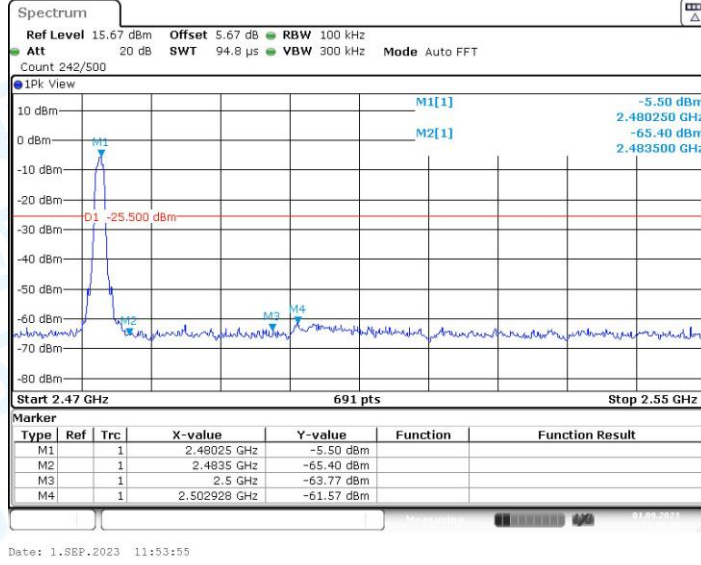
DH5_Ant1_High_Hop_2480



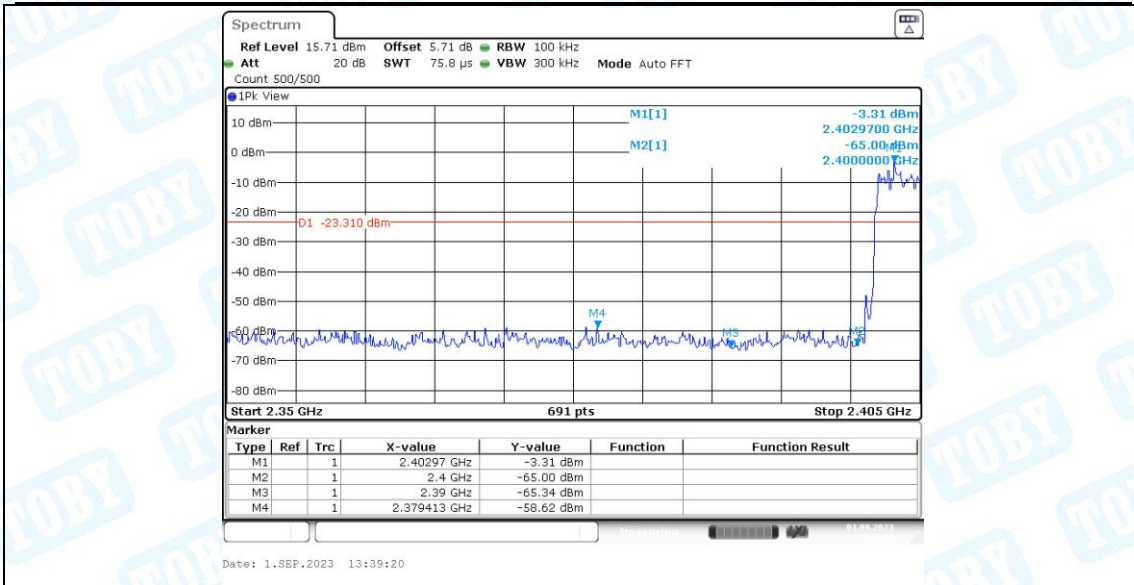
2DH5_Ant1_Low_2402



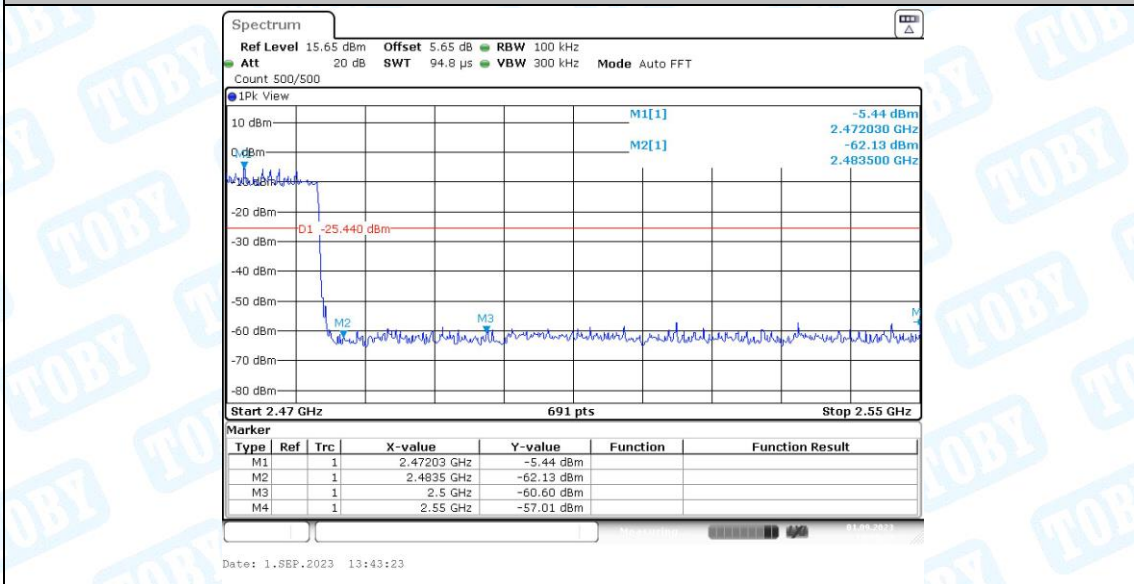
2DH5_Ant1_High_2480



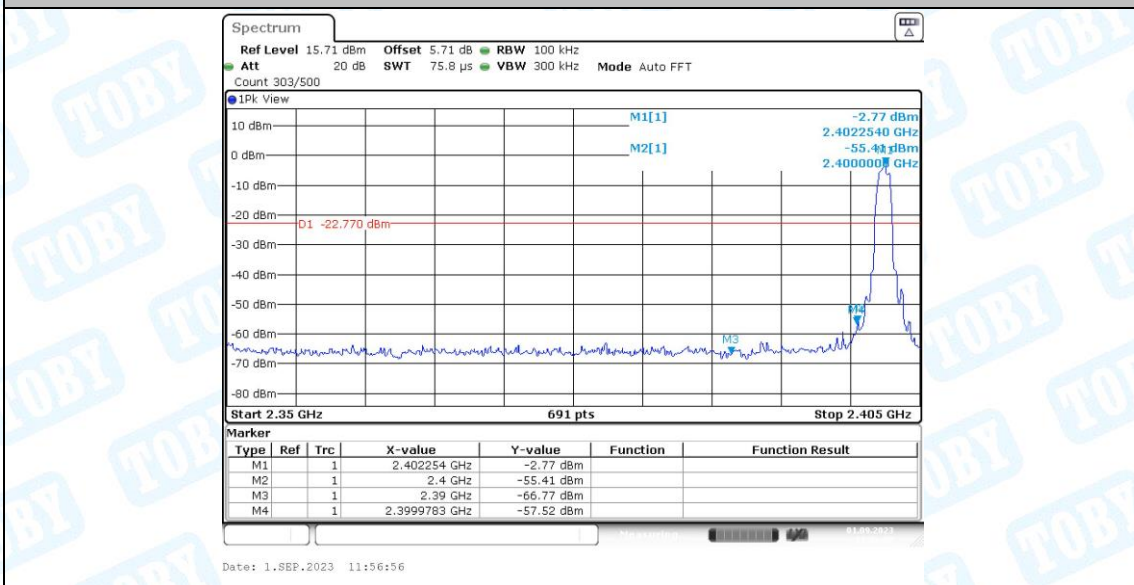
2DH5_Ant1_Low_Hop_2402



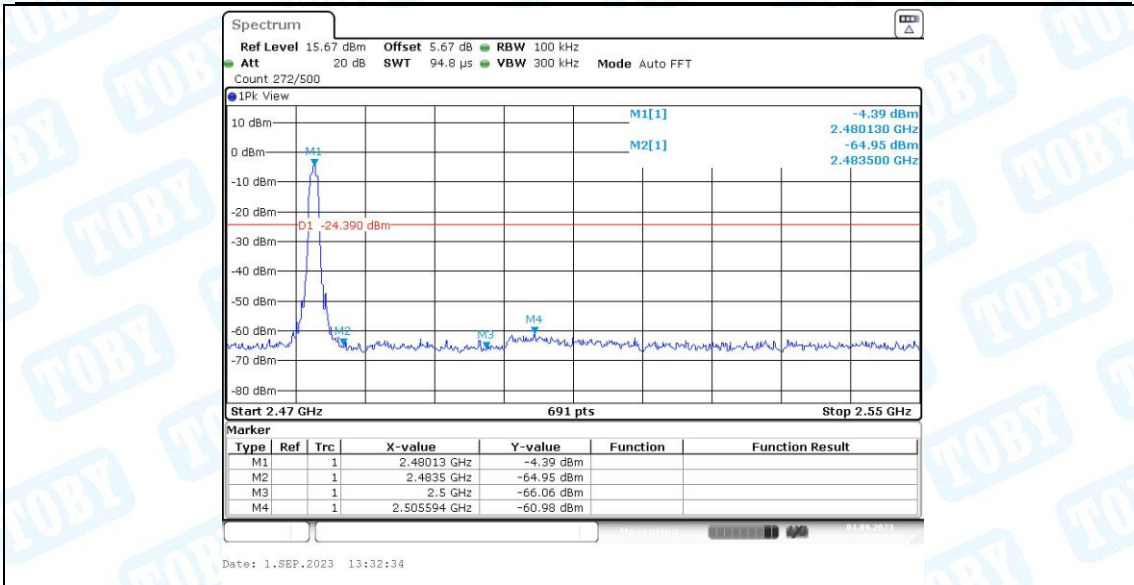
2DH5_Ant1_High_Hop_2480



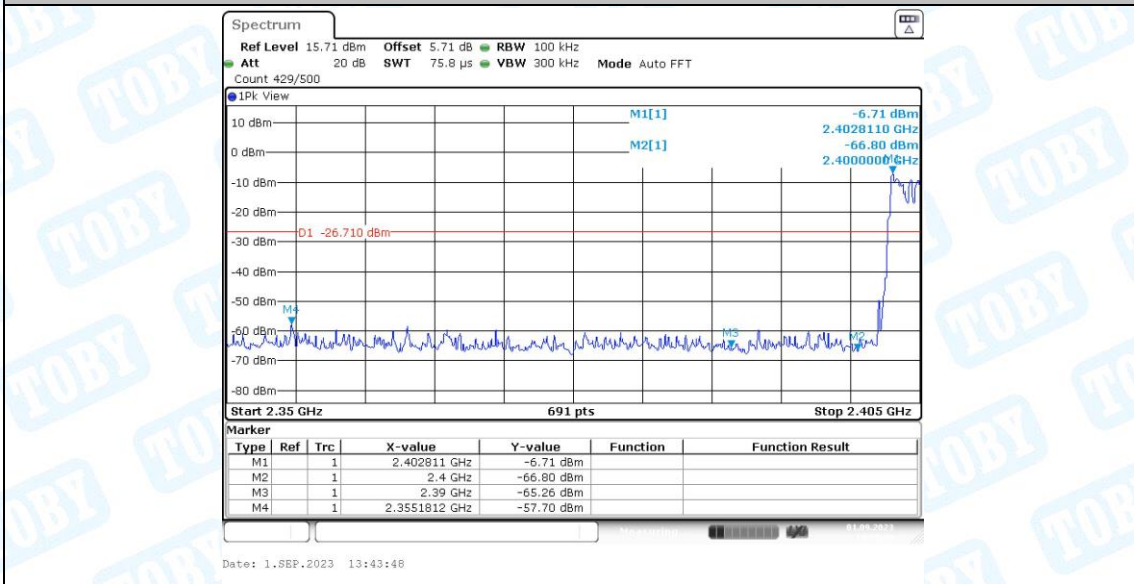
3DH5_Ant1_Low_2402



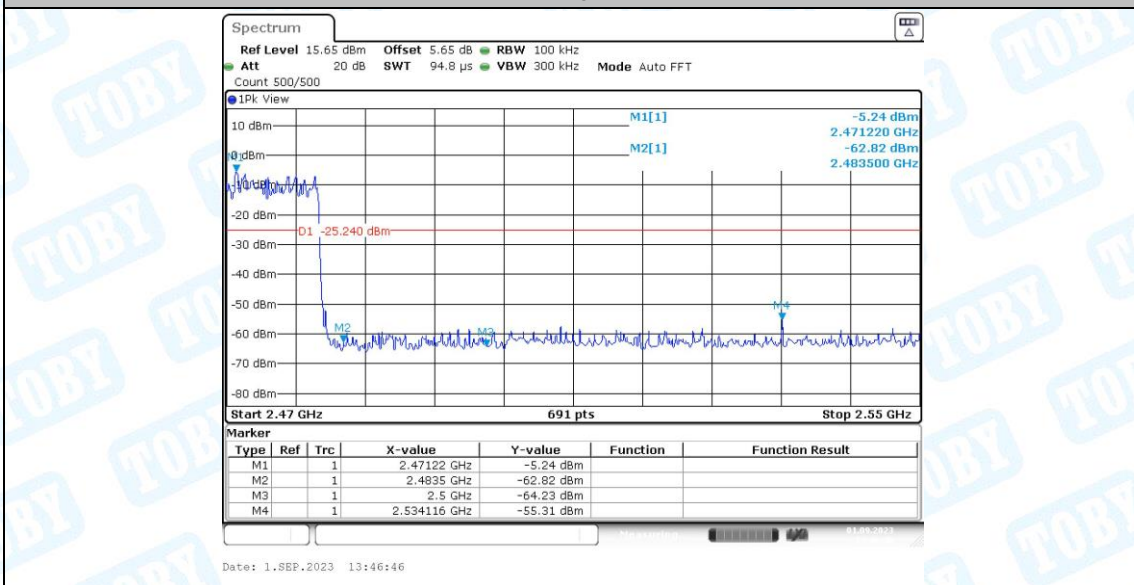
3DH5_Ant1_High_2480



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	-2.77	-2.77	---	PASS
			30~1000	-2.77	-52.76	≤-22.77	PASS
			1000~26500	-2.77	-50.04	≤-22.77	PASS
		2441	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-53.05	≤-24.04	PASS
			1000~26500	-4.04	-52.34	≤-24.04	PASS
		2480	Reference	-4.69	-4.69	---	PASS
			30~1000	-4.69	-52.71	≤-24.69	PASS
			1000~26500	-4.69	-51.51	≤-24.69	PASS
2DH5	Ant1	2402	Reference	-2.98	-2.98	---	PASS
			30~1000	-2.98	-52.87	≤-22.98	PASS
			1000~26500	-2.98	-49.21	≤-22.98	PASS
		2441	Reference	-4.21	-4.21	---	PASS
			30~1000	-4.21	-52.83	≤-24.21	PASS
			1000~26500	-4.21	-51.77	≤-24.21	PASS
		2480	Reference	-4.86	-4.86	---	PASS
			30~1000	-4.86	-53.08	≤-24.86	PASS
			1000~26500	-4.86	-51.27	≤-24.86	PASS
3DH5	Ant1	2402	Reference	-2.72	-2.72	---	PASS
			30~1000	-2.72	-52.6	≤-22.72	PASS
			1000~26500	-2.72	-50.21	≤-22.72	PASS
		2441	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-52.93	≤-23.81	PASS
			1000~26500	-3.81	-52.89	≤-23.81	PASS
		2480	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-52.9	≤-24.48	PASS
			1000~26500	-4.48	-51.04	≤-24.48	PASS

8.2. Test Graphs

