

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

General Description of EUT	
Product Name:	tablet computer
Test Model:	AYANEO AIR
Sample ID:	RW-C-202205-0297-6-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 11.55V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202205-0297-17	

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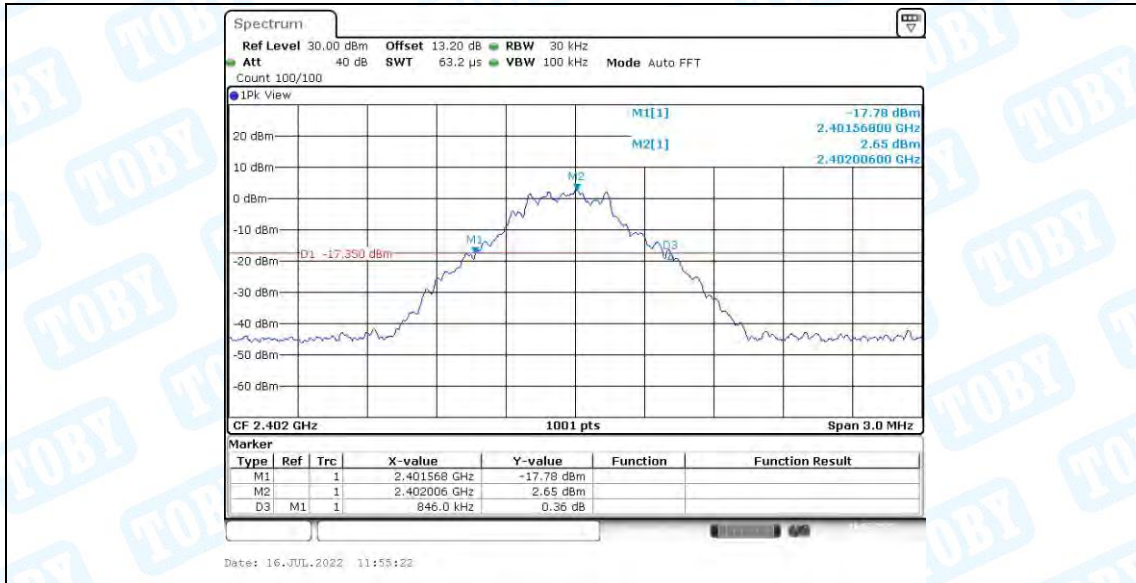
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1. 20dB Emission Bandwidth

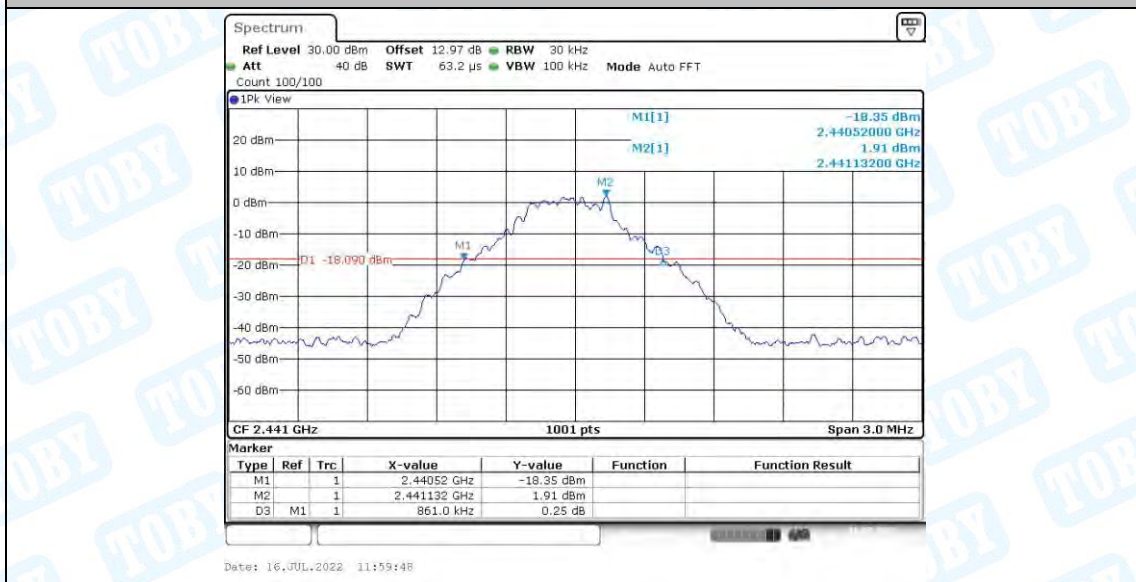
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85	---	---
		2441	0.86	---	---
		2480	0.86	---	---
2DH5	Ant1	2402	1.26	---	---
		2441	1.21	---	---
		2480	1.26	---	---
3DH5	Ant1	2402	1.24	---	---
		2441	1.26	---	---
		2480	1.20	---	---

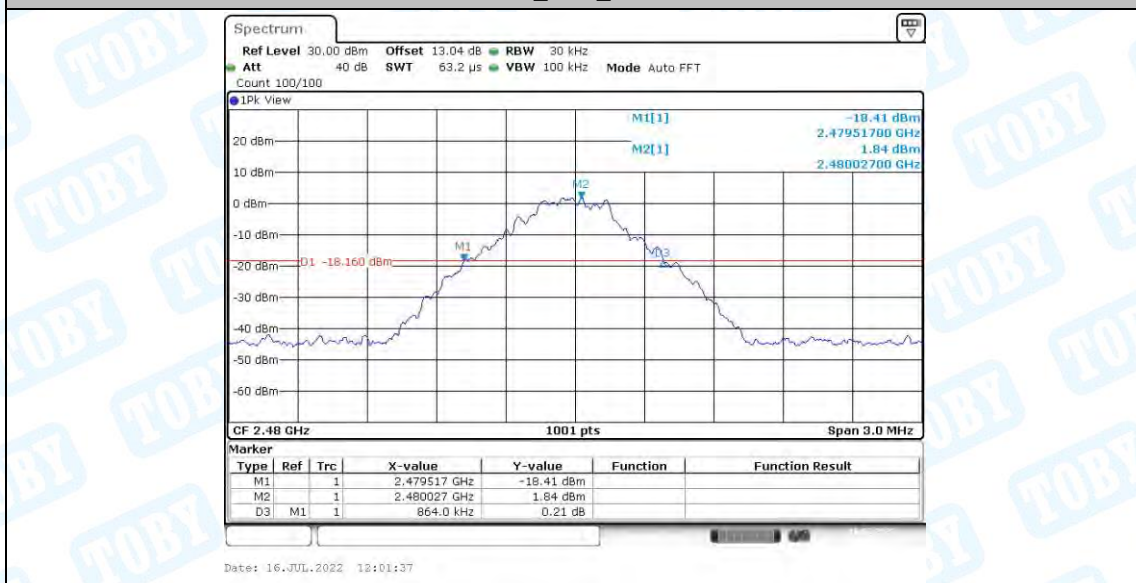
1.2. Test Graphs



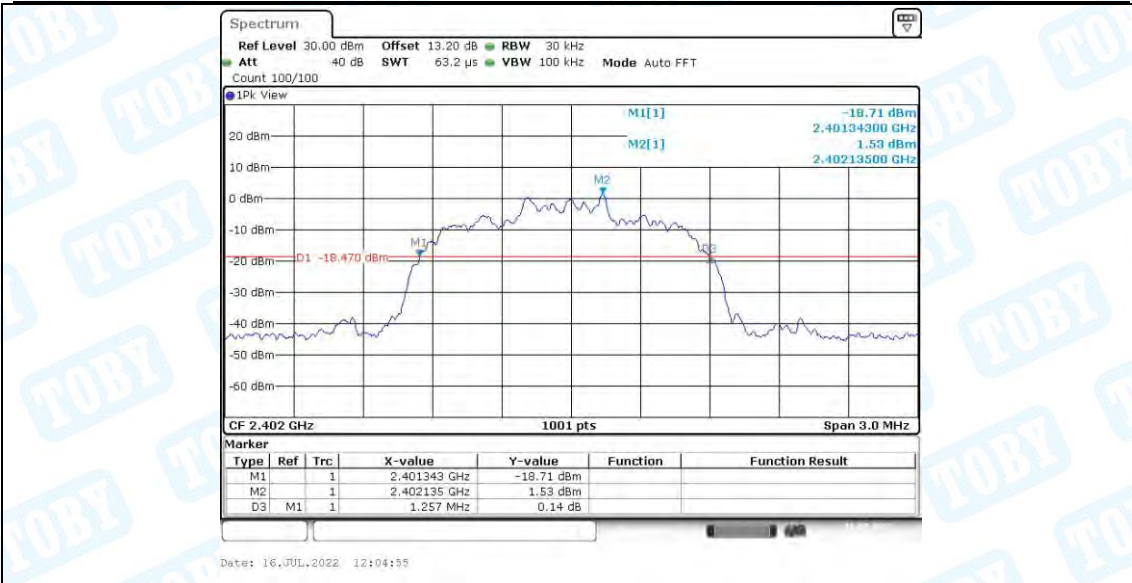
DH5_Ant1_2402



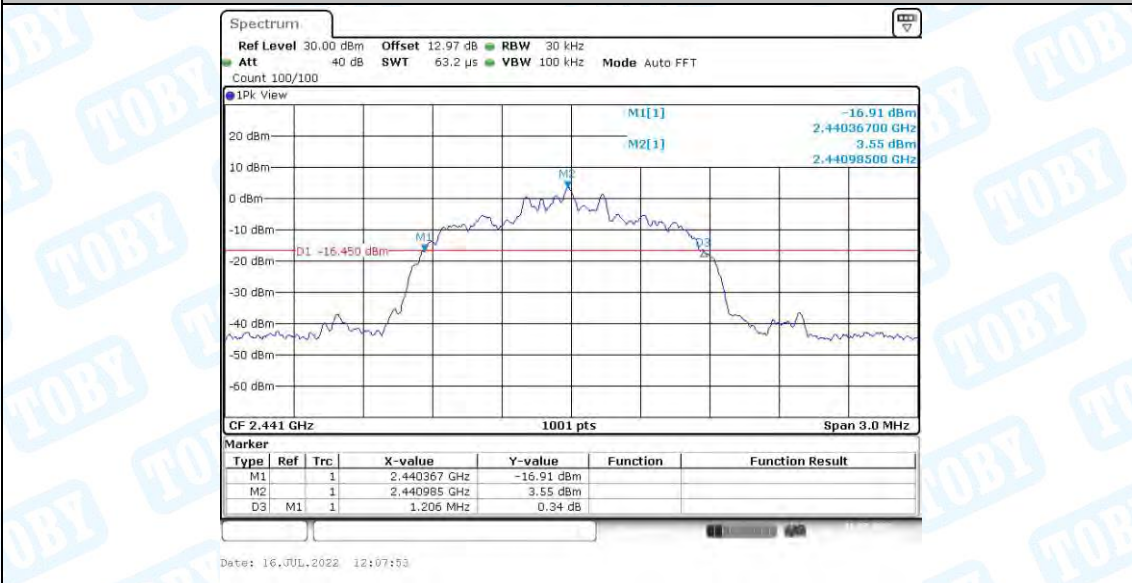
DH5_Ant1_2441



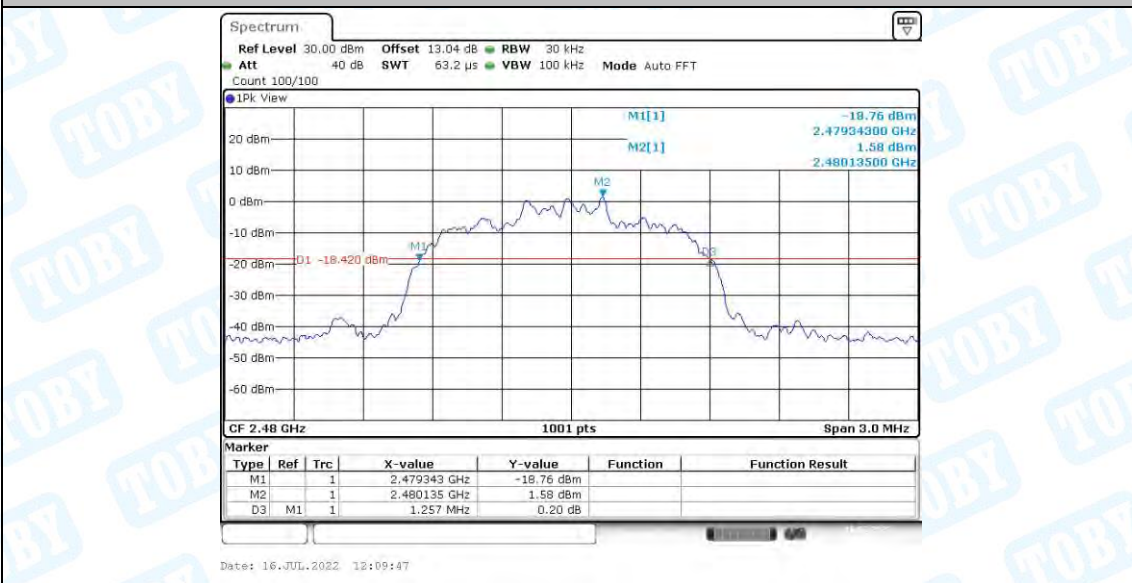
DH5_Ant1_2480



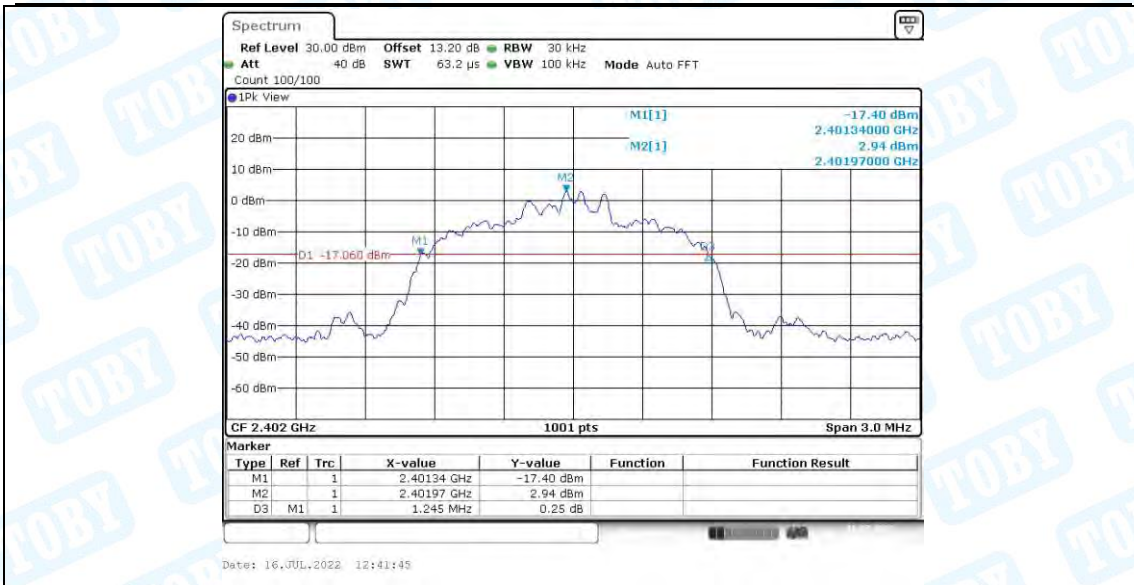
2DH5_Ant1_2402



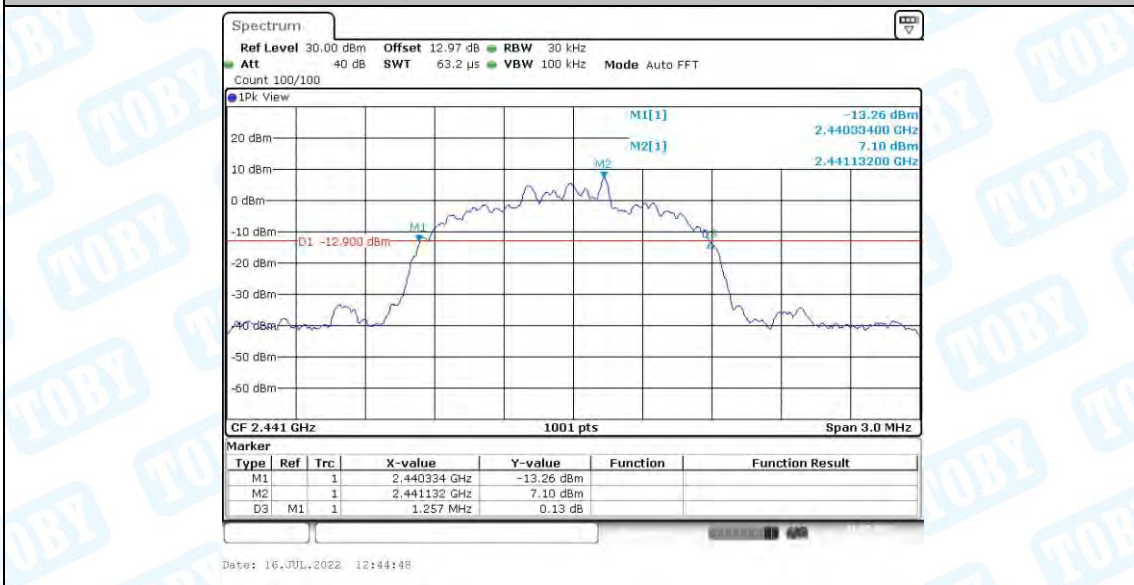
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



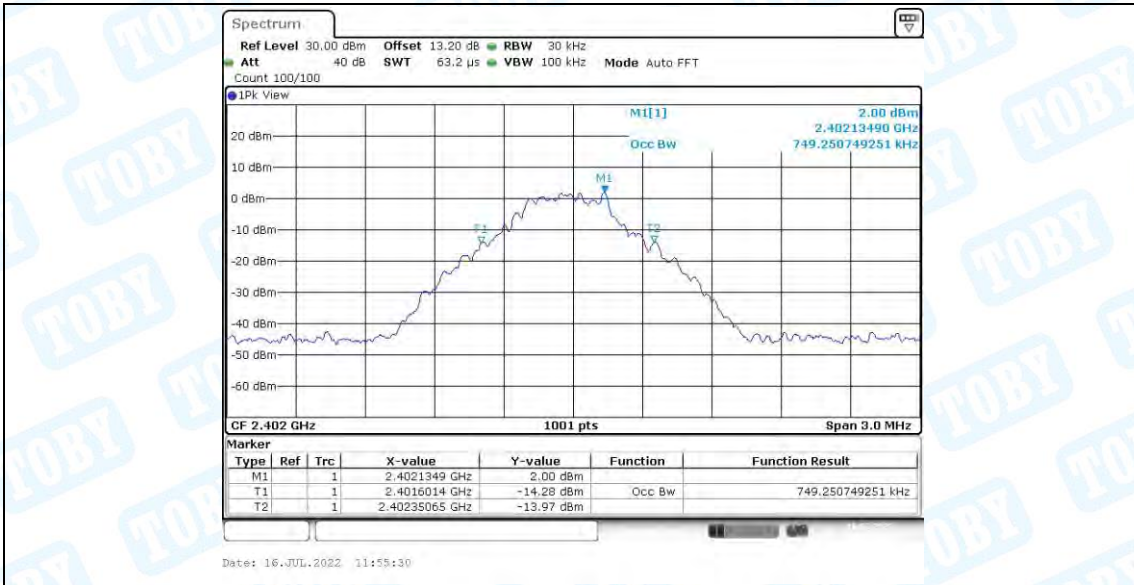
3DH5_Ant1_2480

2. Occupied Channel Bandwidth

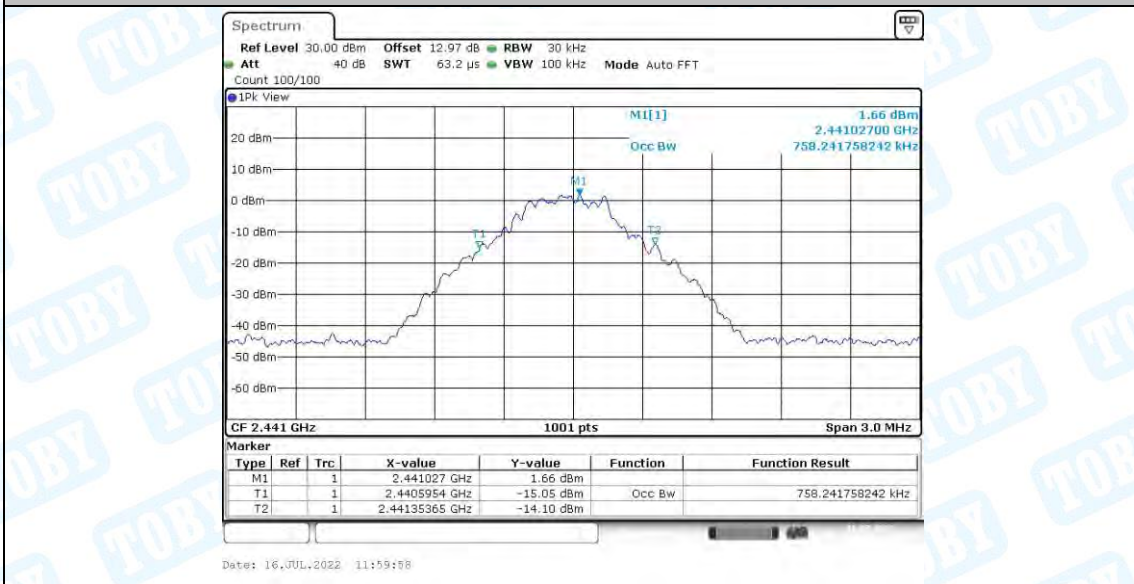
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.749	2401.601	2402.351	---	---
		2441	0.758	2440.595	2441.354	---	---
		2480	0.752	2479.598	2480.351	---	---
2DH5	Ant1	2402	1.154	2401.392	2402.545	---	---
		2441	1.151	2440.392	2441.542	---	---
		2480	1.148	2479.395	2480.542	---	---
3DH5	Ant1	2402	1.127	2401.410	2402.536	---	---
		2441	1.151	2440.398	2441.548	---	---
		2480	1.151	2479.398	2480.548	---	---

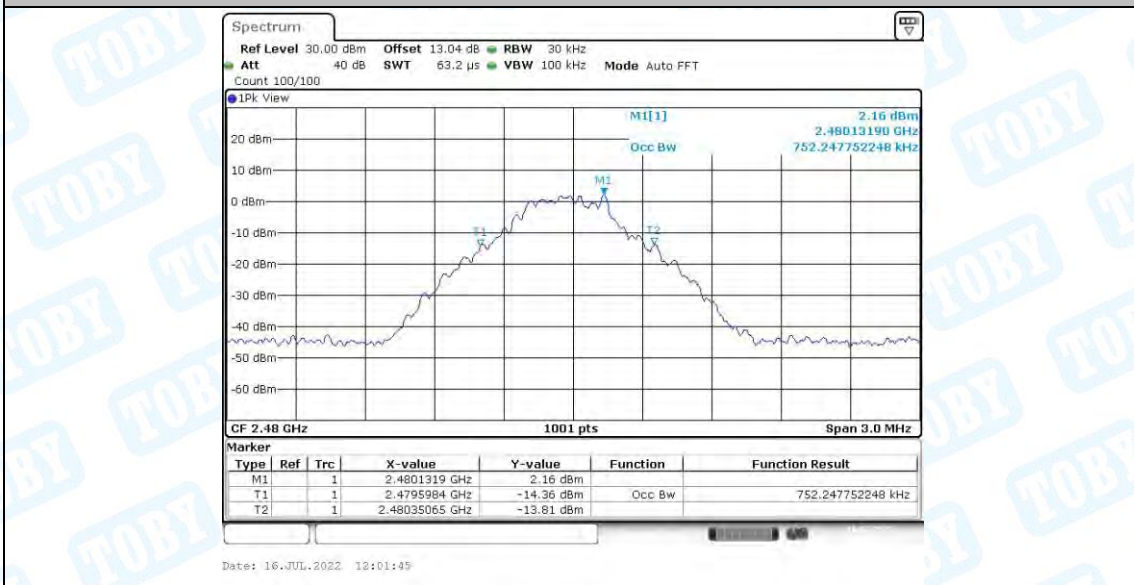
2.2. Test Graphs



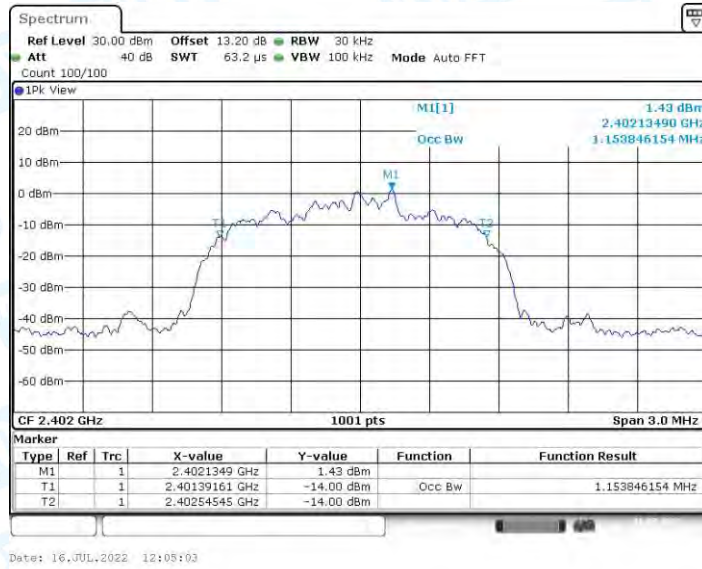
DH5_Ant1_2402



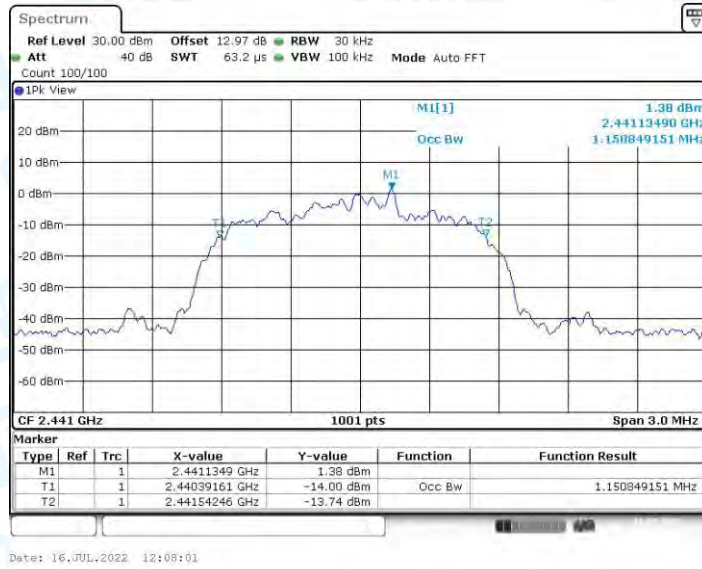
DH5_Ant1_2441



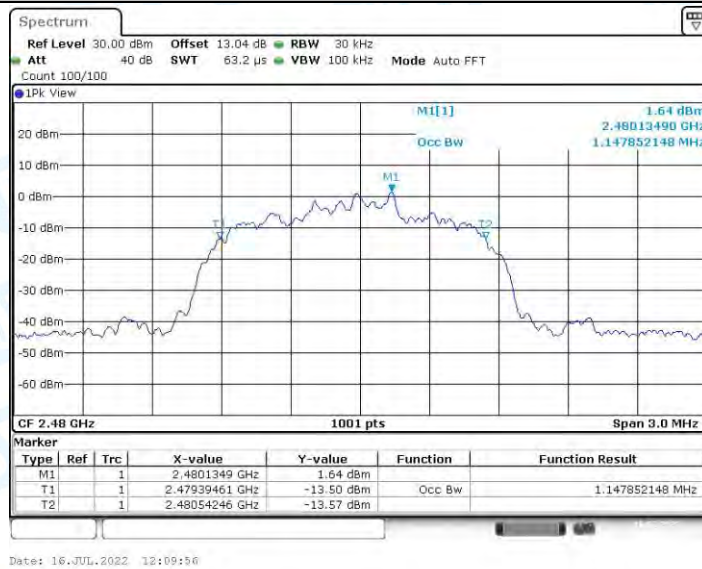
DH5_Ant1_2480



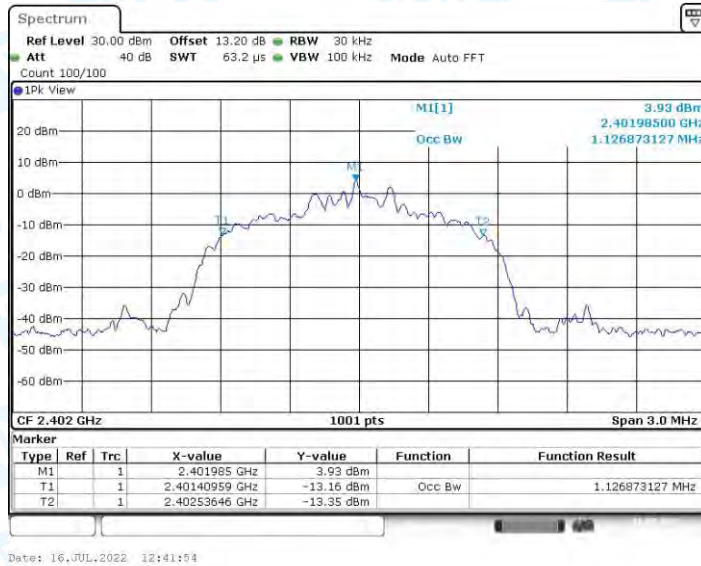
2DH5_Ant1_2402



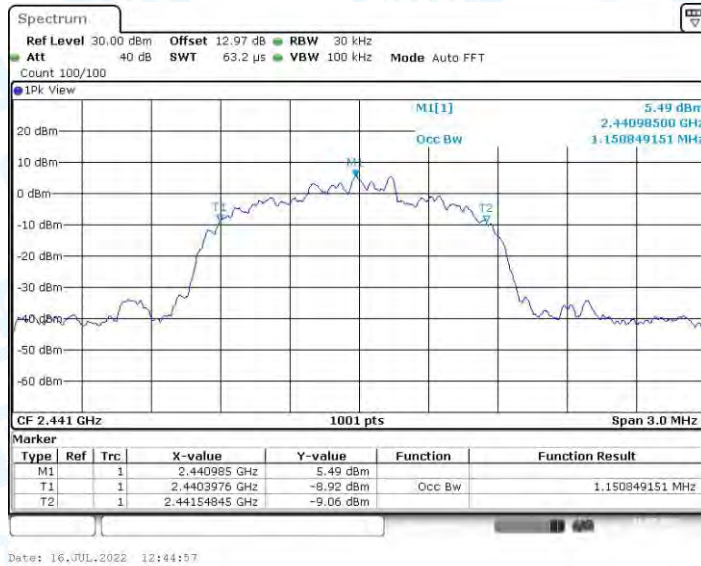
2DH5_Ant1_2441



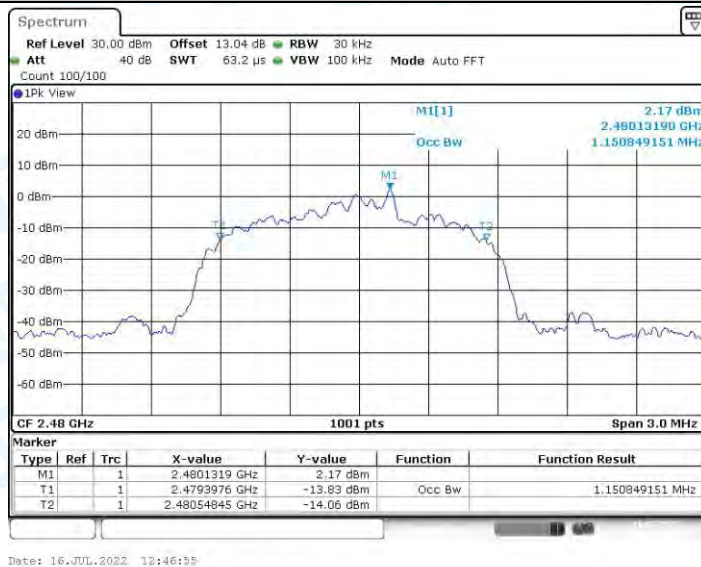
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



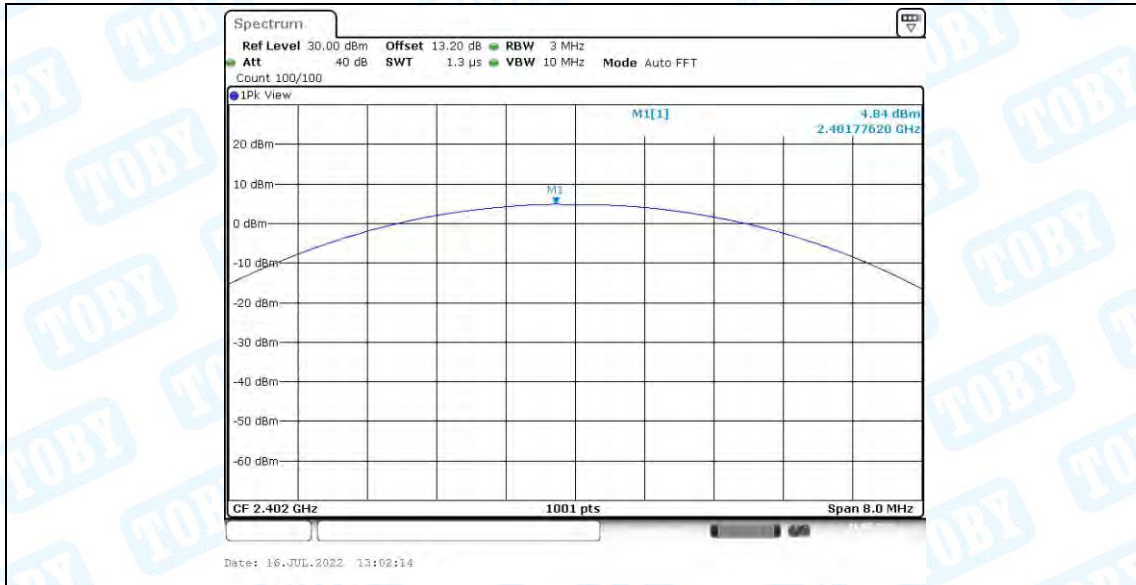
3DH5_Ant1_2480

3. Maximum conducted output power

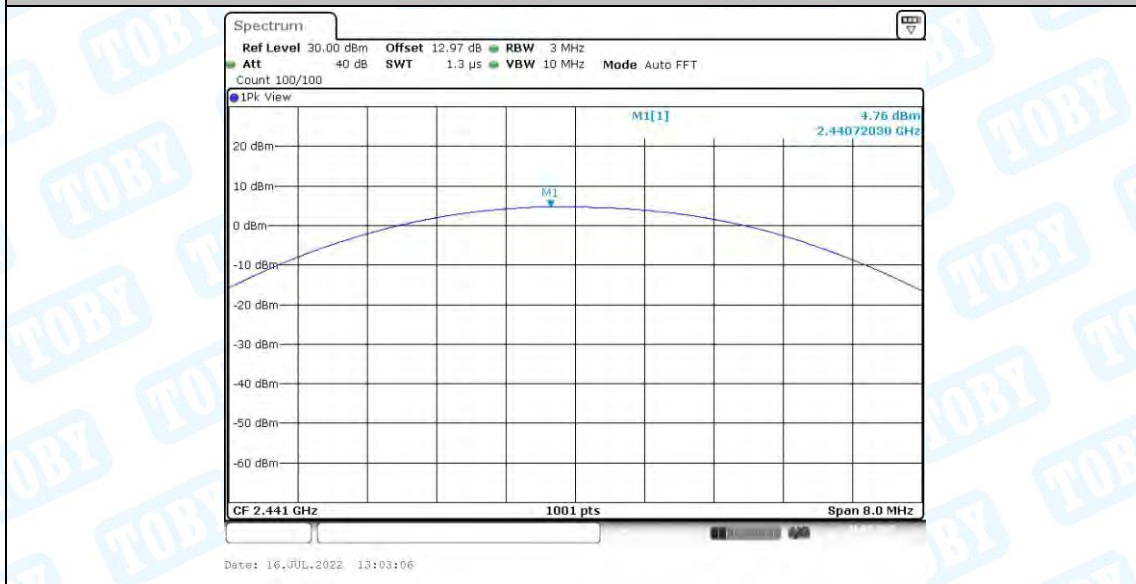
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.84	≤21	PASS
		2441	4.76	≤21	PASS
		2480	5.05	≤21	PASS
2DH5	Ant1	2402	4.73	≤21	PASS
		2441	4.68	≤21	PASS
		2480	4.74	≤21	PASS
3DH5	Ant1	2402	4.68	≤21	PASS
		2441	4.64	≤21	PASS
		2480	4.83	≤21	PASS

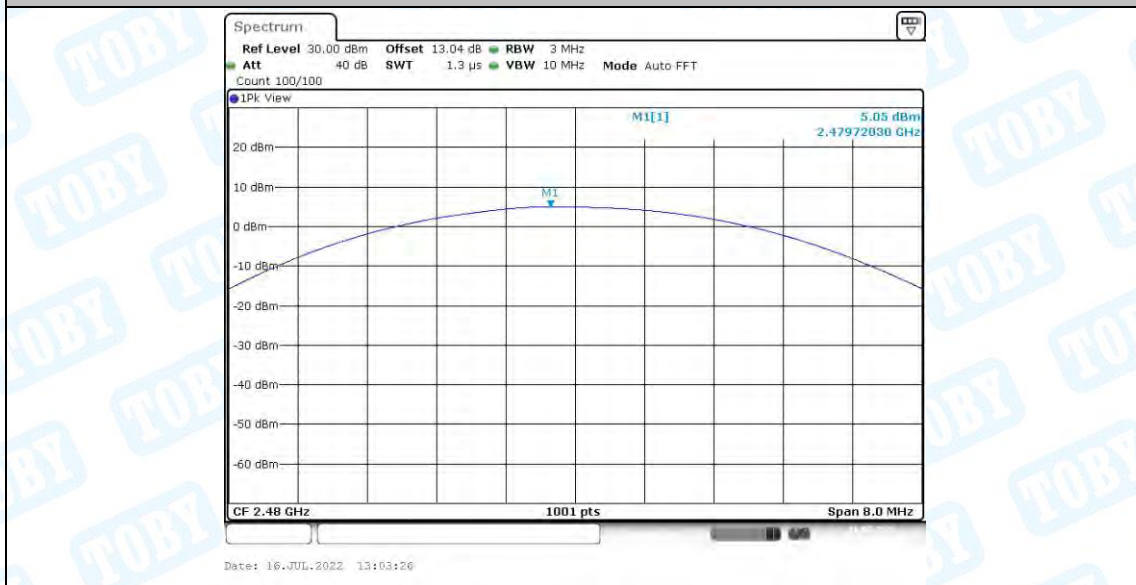
3.2. Test Graphs



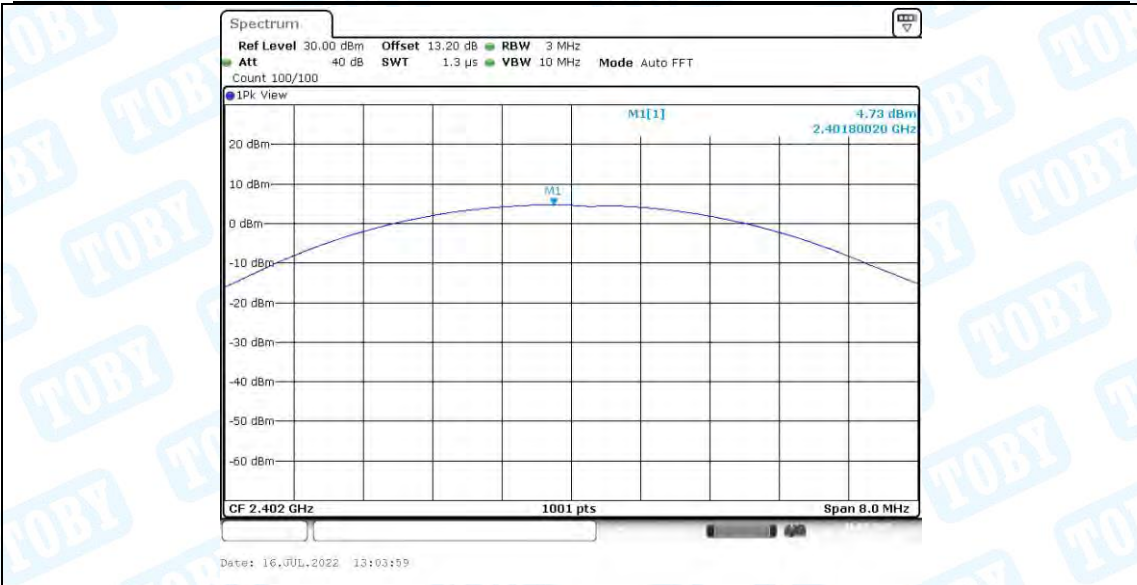
DH5_Ant1_2402



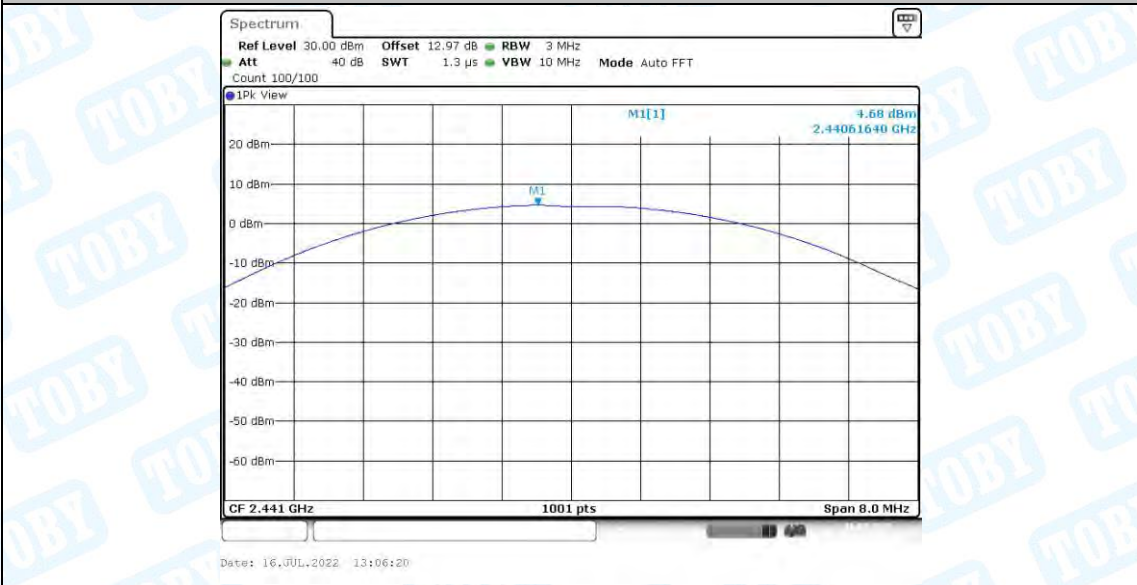
DH5_Ant1_2441



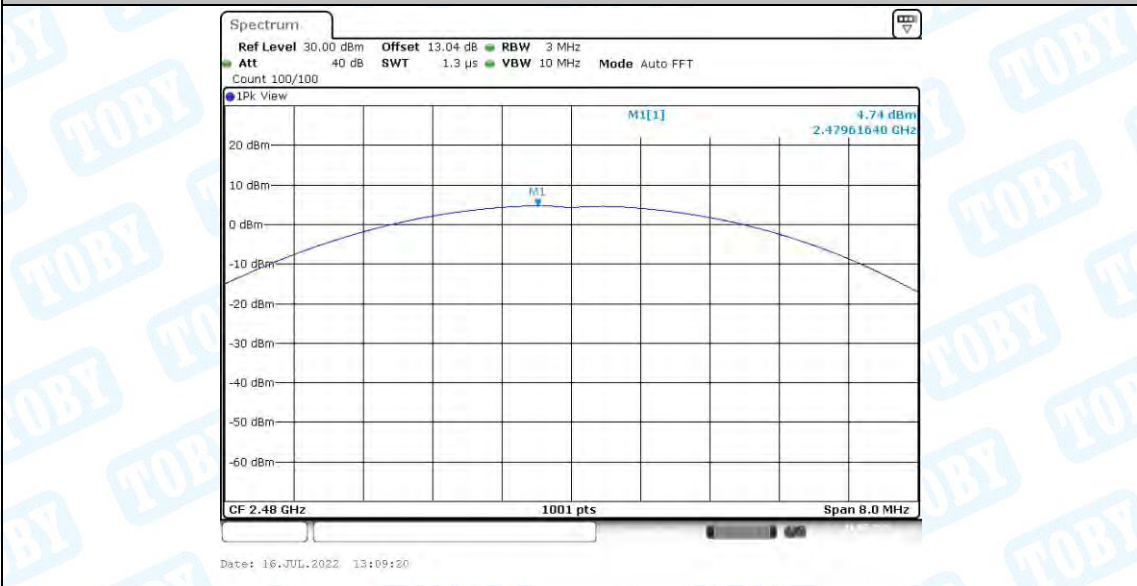
DH5_Ant1_2480



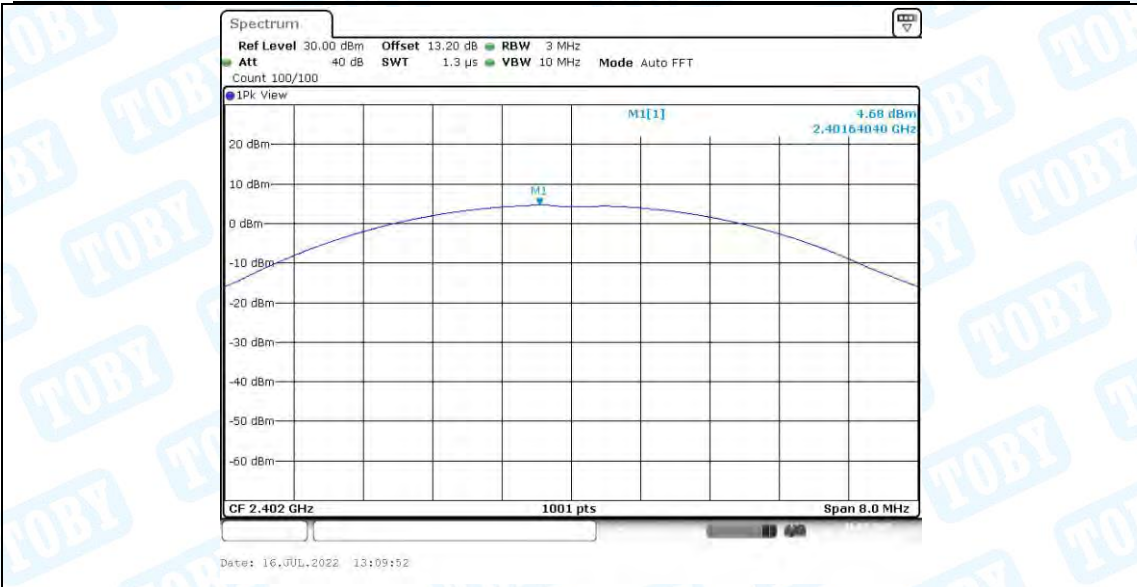
2DH5_Ant1_2402



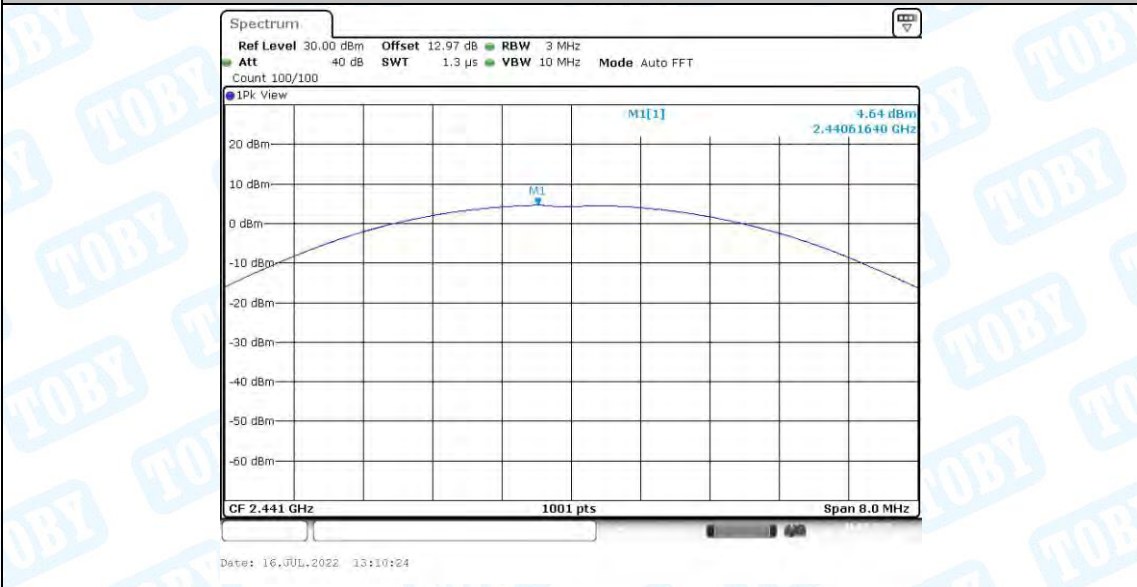
2DH5_Ant1_2441



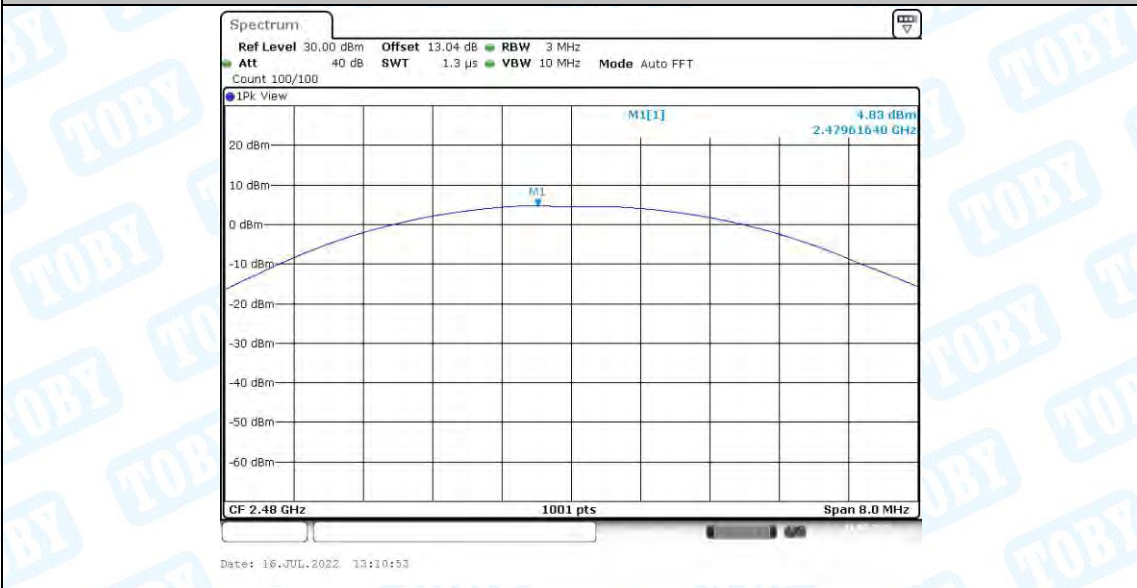
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



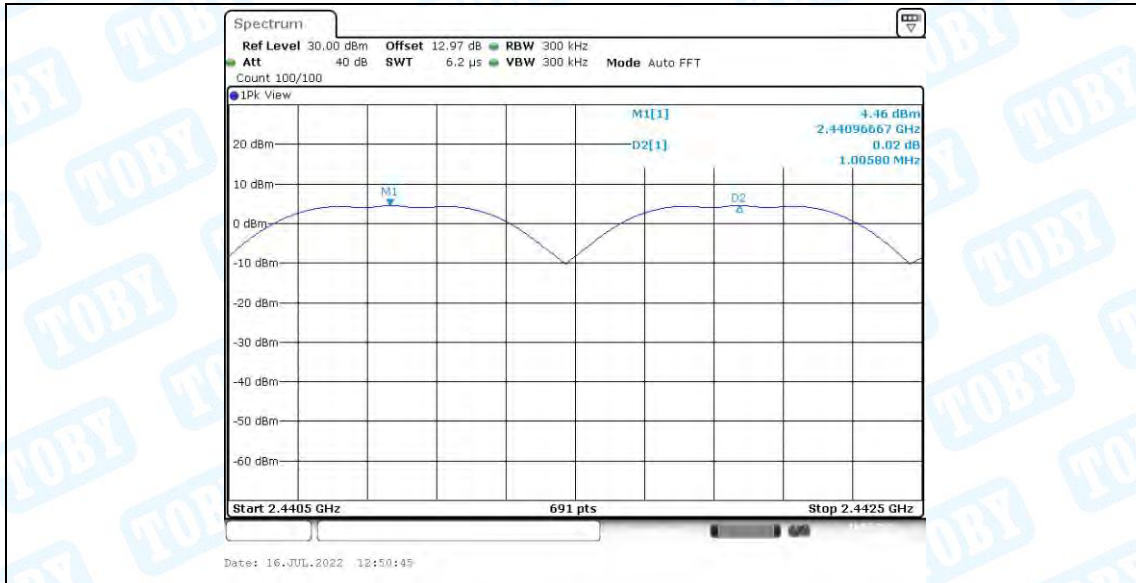
3DH5_Ant1_2480

4. Carrier frequency separation

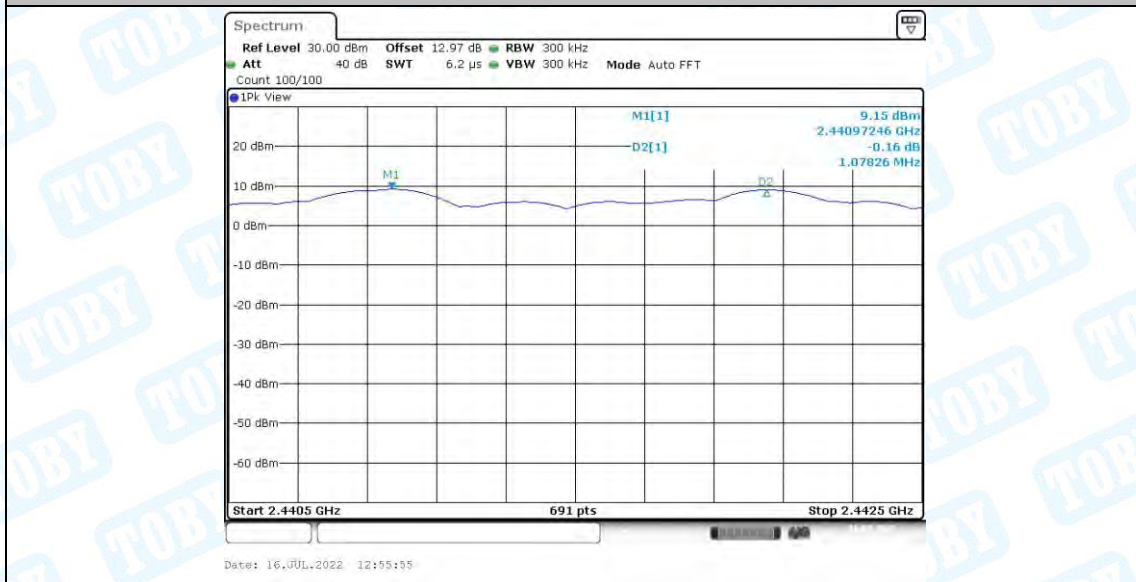
4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥0.860	PASS
2DH5	Ant1	Hop	1.078	≥0.840	PASS
3DH5	Ant1	Hop	1.003	≥0.840	PASS

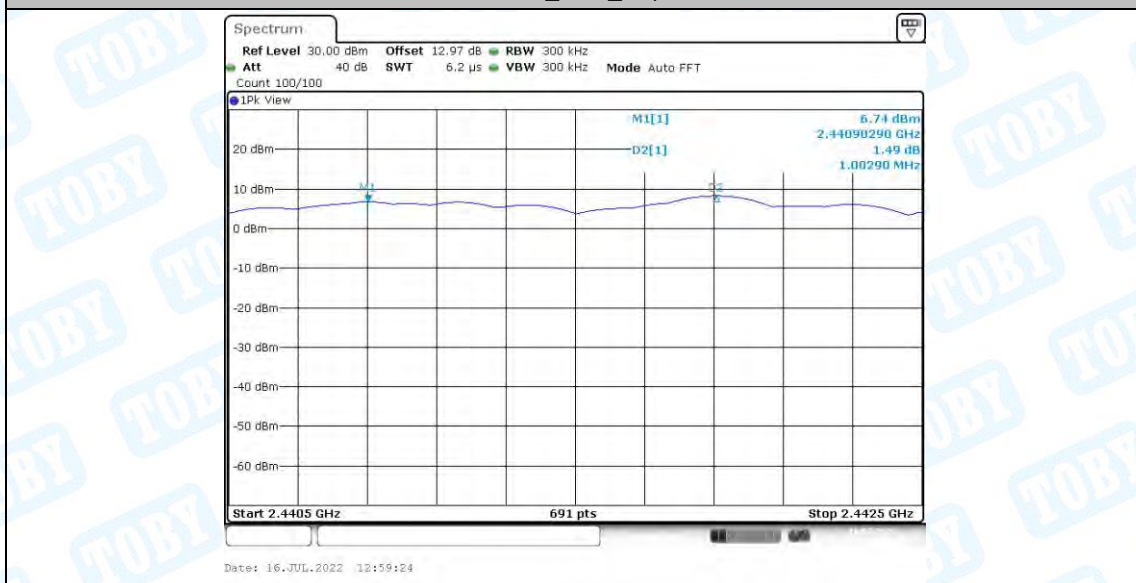
4.2. Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



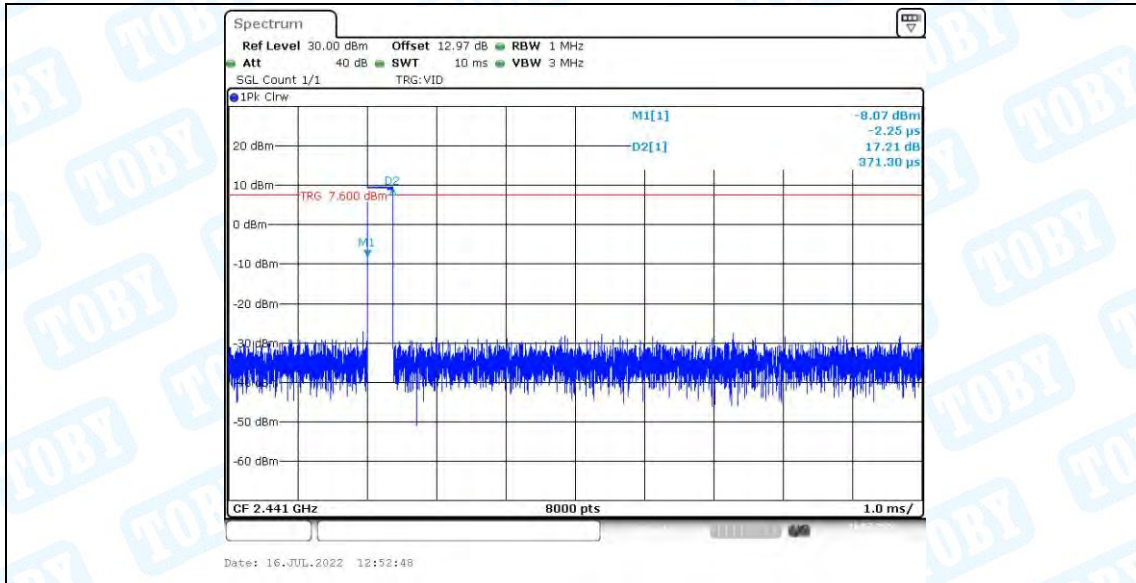
3DH5_Ant1_Hop

5. Time of occupancy

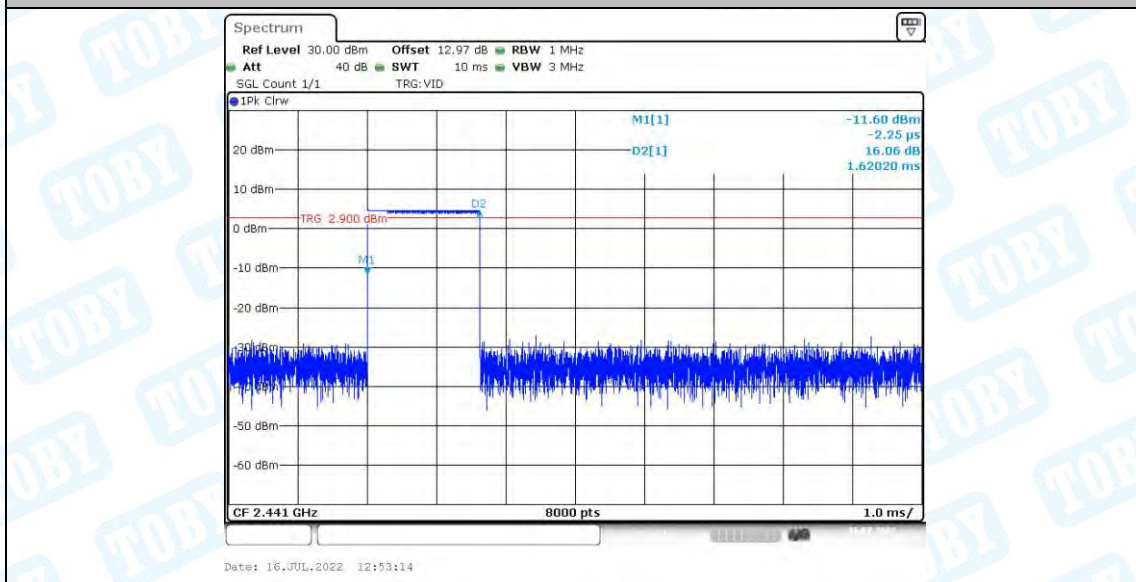
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.62	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.86	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.62	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.86	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.62	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS

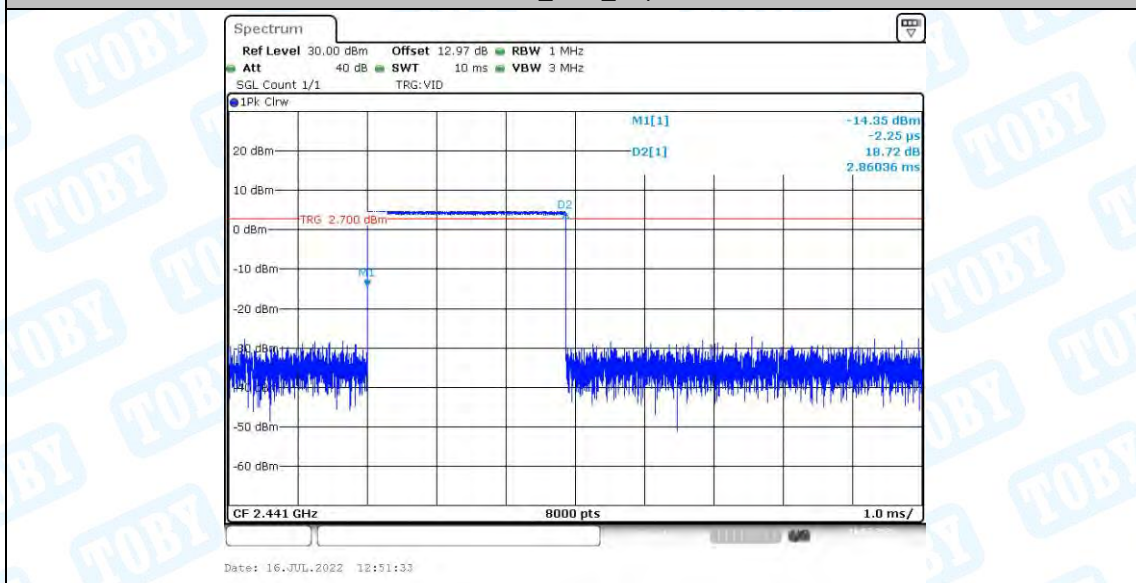
5.2. Test Graphs



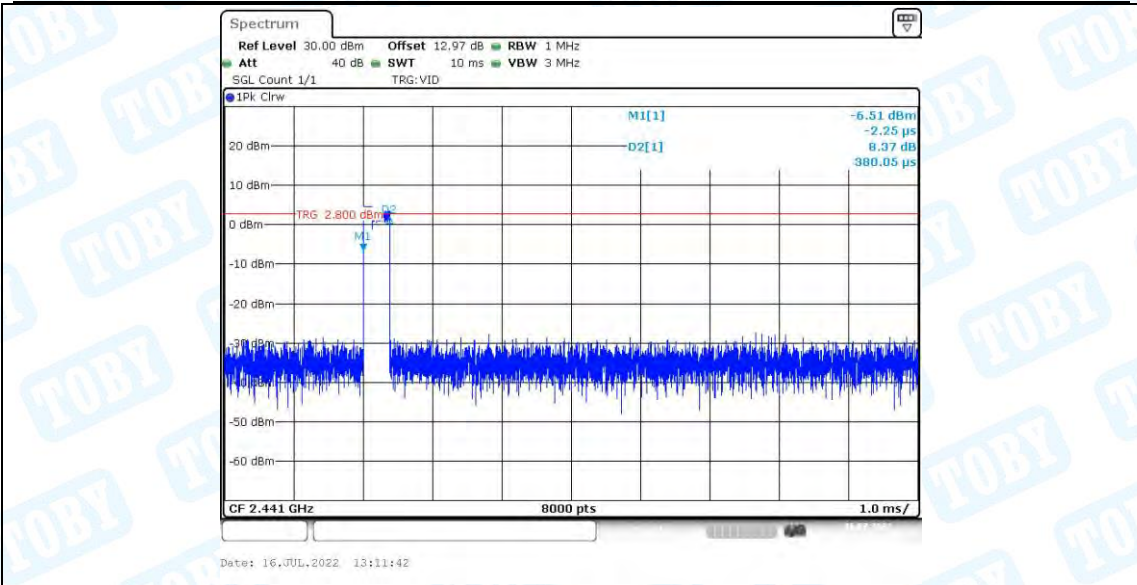
DH1_Ant1_Hop



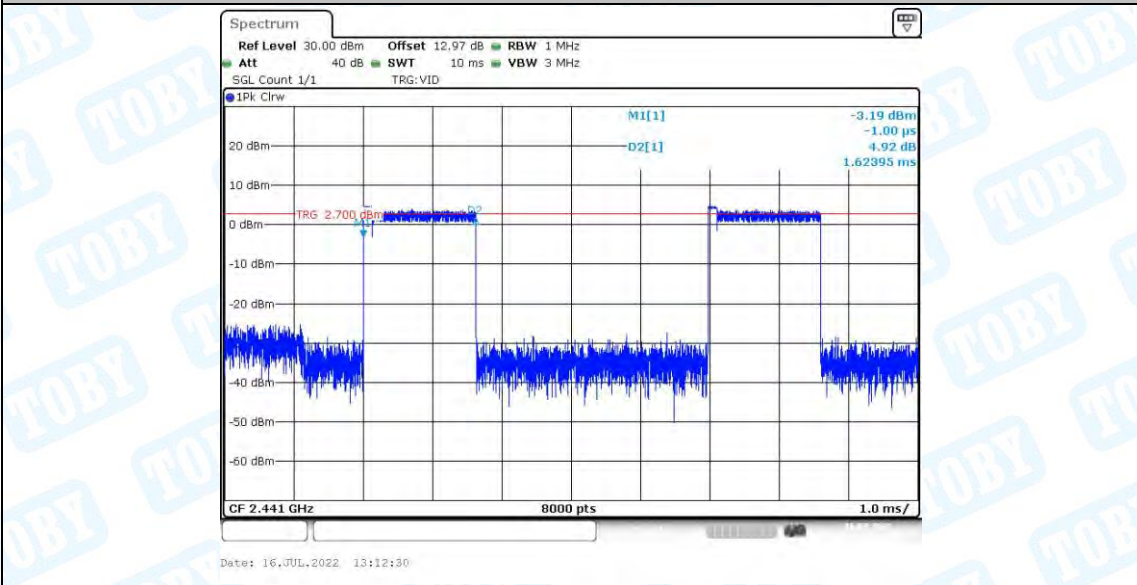
DH3_Ant1_Hop



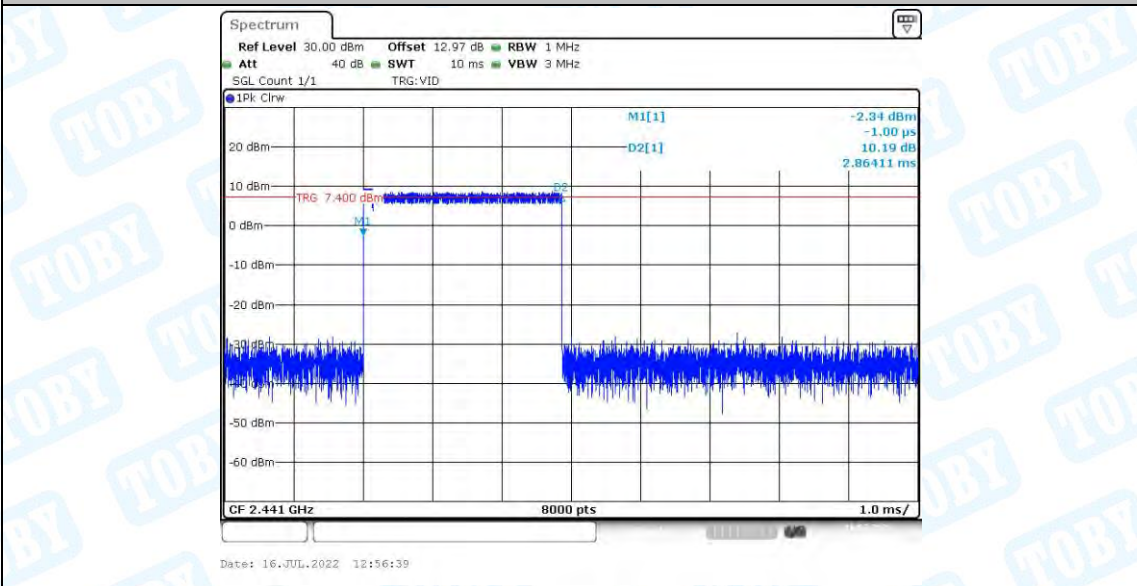
DH5_Ant1_Hop



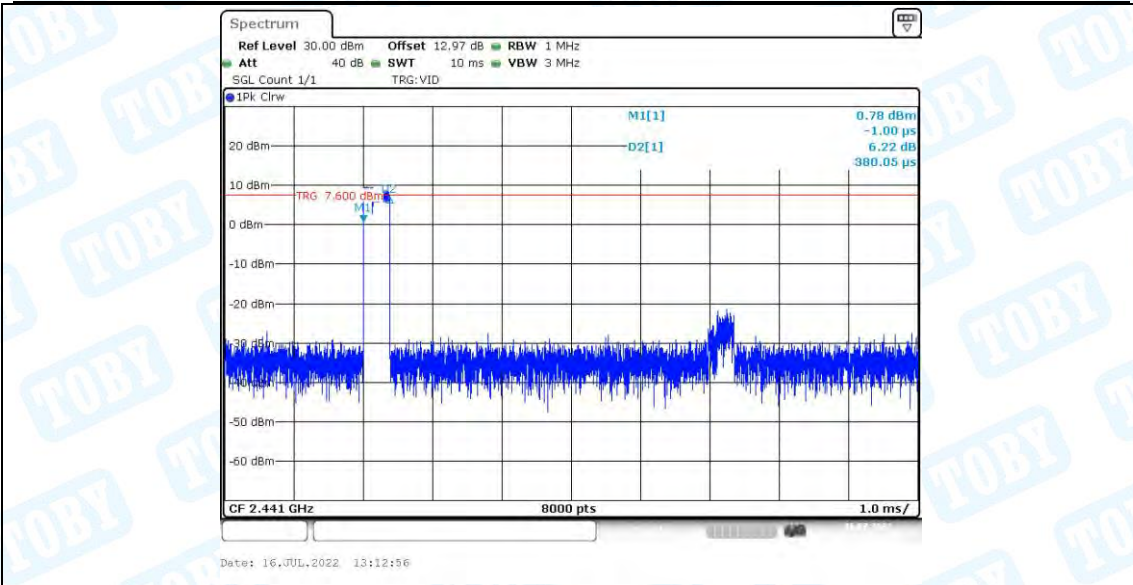
2DH1_Ant1_Hop



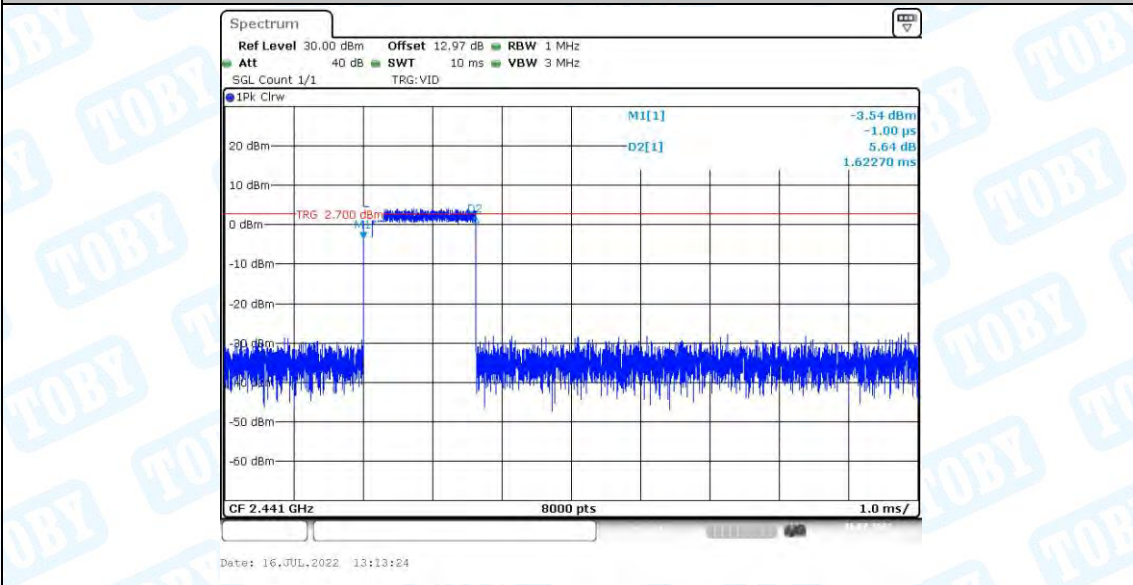
2DH3_Ant1_Hop



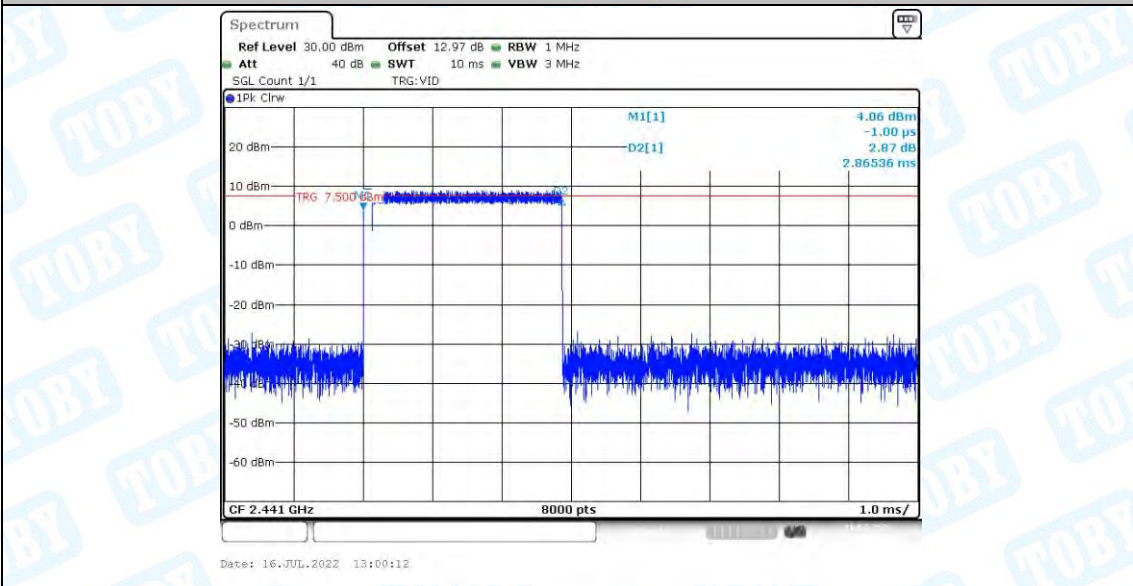
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



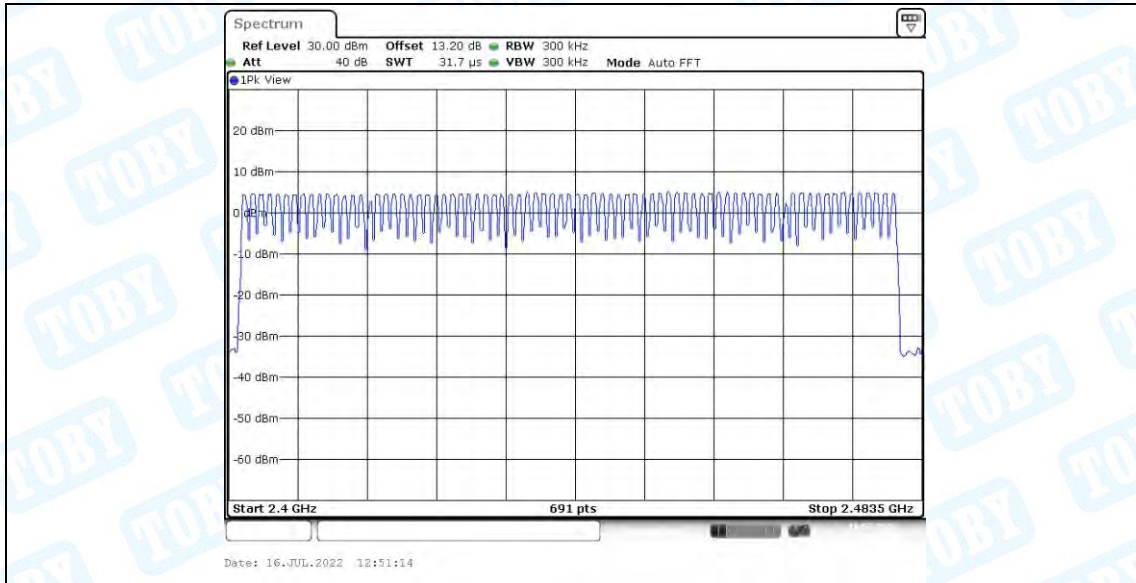
3DH5_Ant1_Hop

6. Number of hopping channels

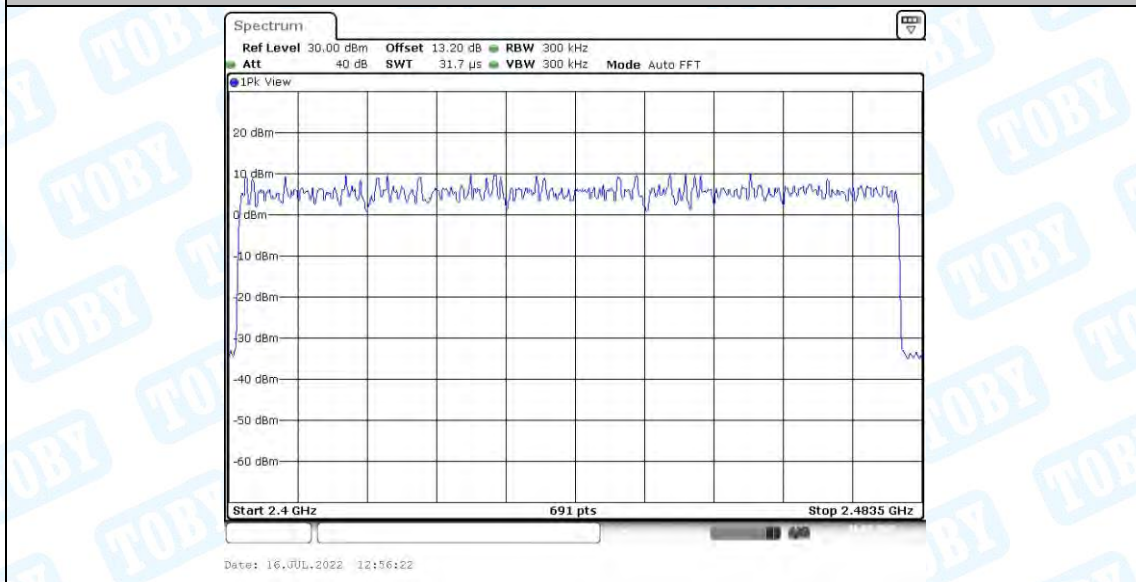
6.1. Test Result

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

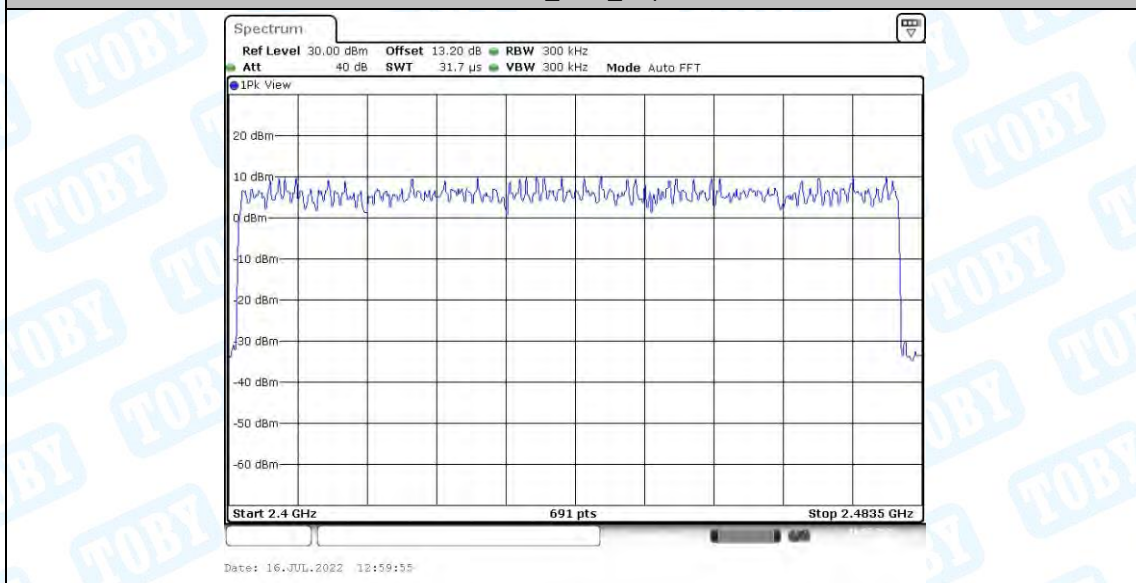
6.2. Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



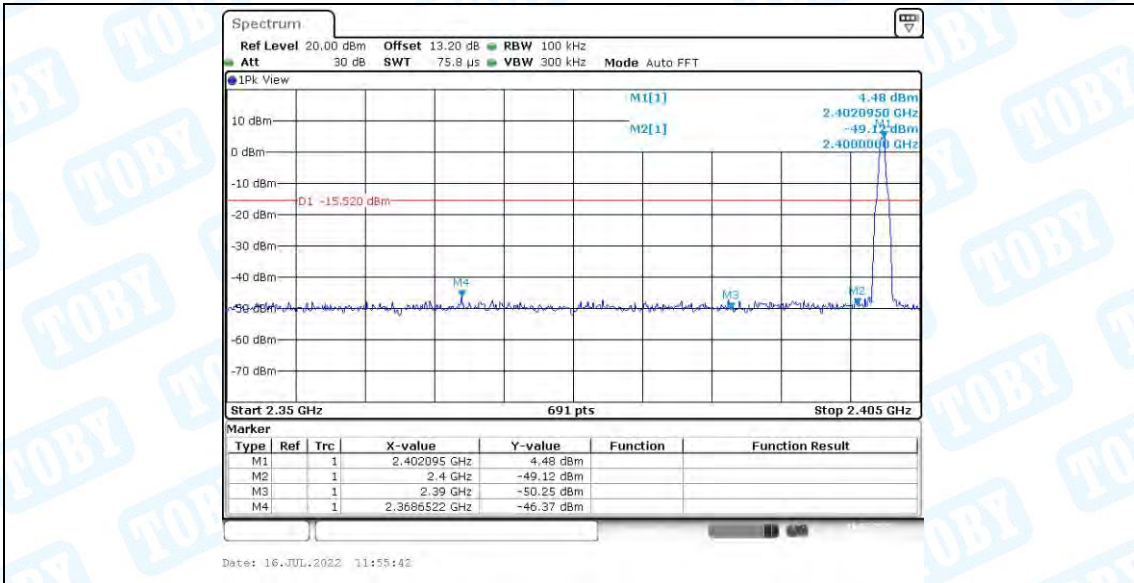
3DH5_Ant1_Hop

7. Band edge measurements

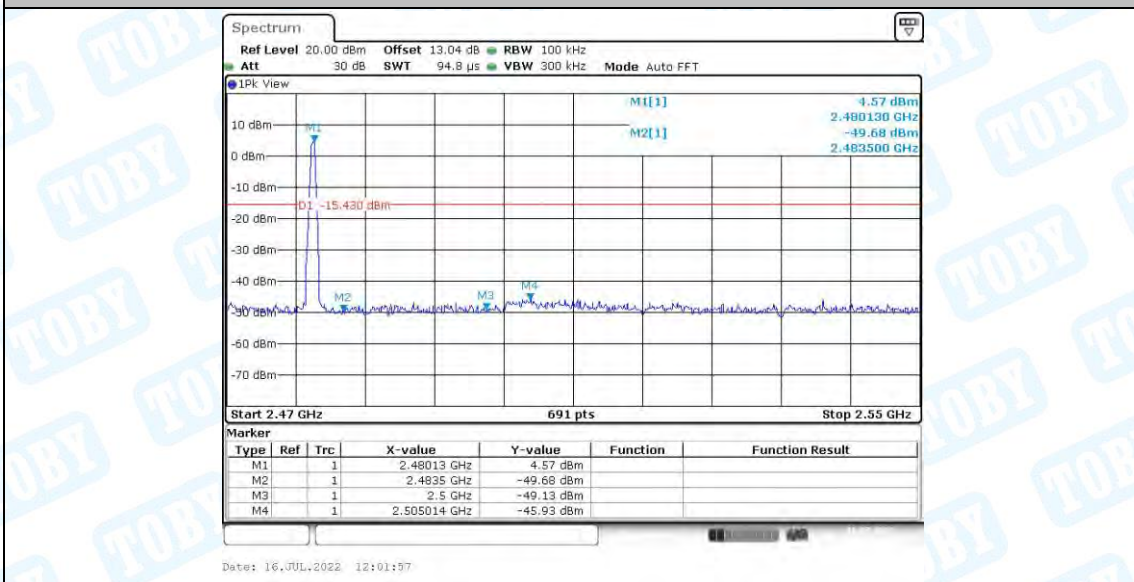
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.48	-46.37	≤-15.52	PASS
		High	2480	4.57	-45.93	≤-15.43	PASS
		Low	Hop_2402	3.71	-47.17	≤-16.29	PASS
		High	Hop_2480	9.13	-45.23	≤-10.87	PASS
2DH5	Ant1	Low	2402	4.61	-46.8	≤-15.39	PASS
		High	2480	3.94	-44.74	≤-16.06	PASS
		Low	Hop_2402	3.62	-46.28	≤-16.38	PASS
		High	Hop_2480	4.81	-45.24	≤-15.19	PASS
3DH5	Ant1	Low	2402	4.31	-46.93	≤-15.69	PASS
		High	2480	8.70	-45.51	≤-11.3	PASS
		Low	Hop_2402	4.66	-46.96	≤-15.34	PASS
		High	Hop_2480	6.64	-45.21	≤-13.36	PASS

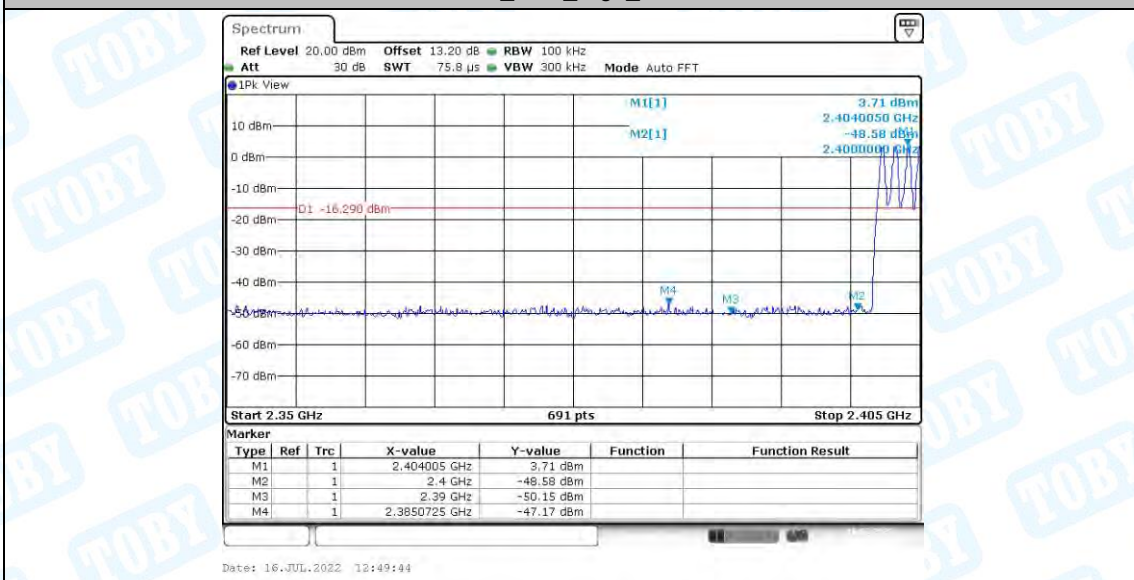
7.2. Test Graphs



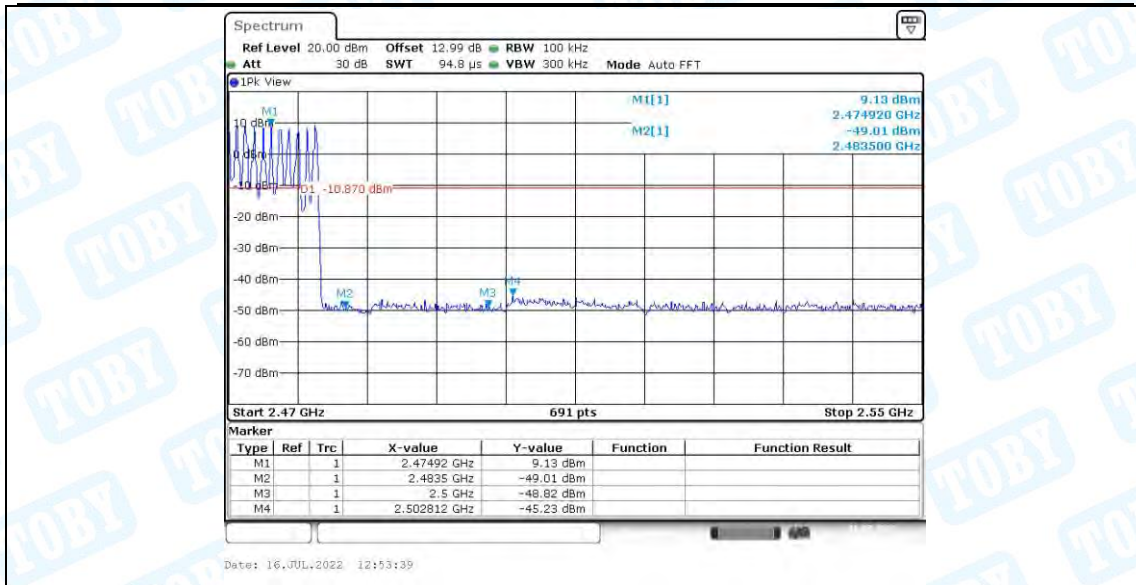
DH5_Ant1_Low_2402



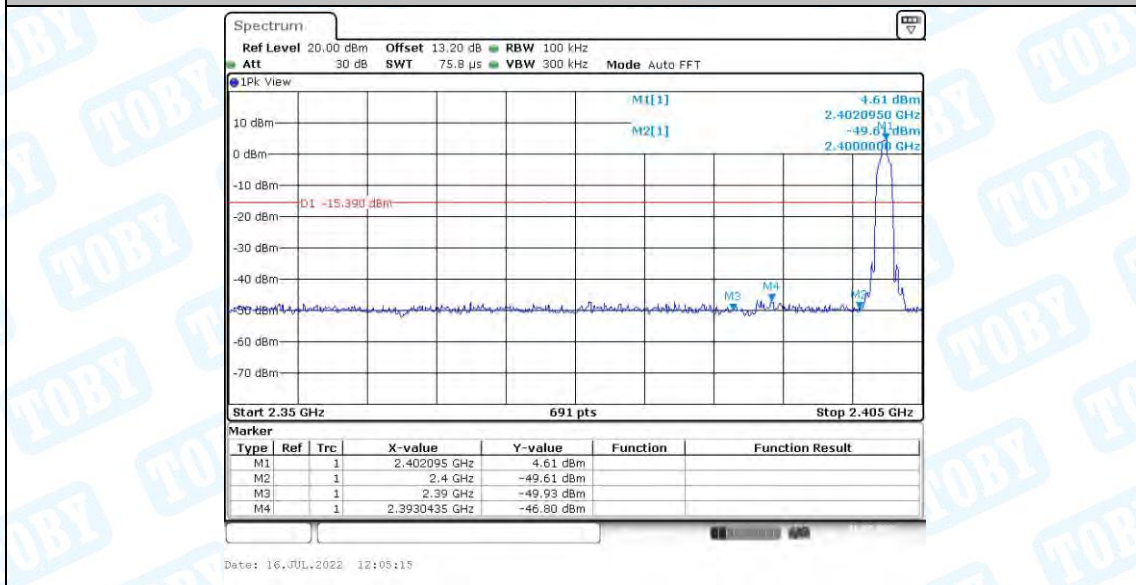
DH5_Ant1_High_2480



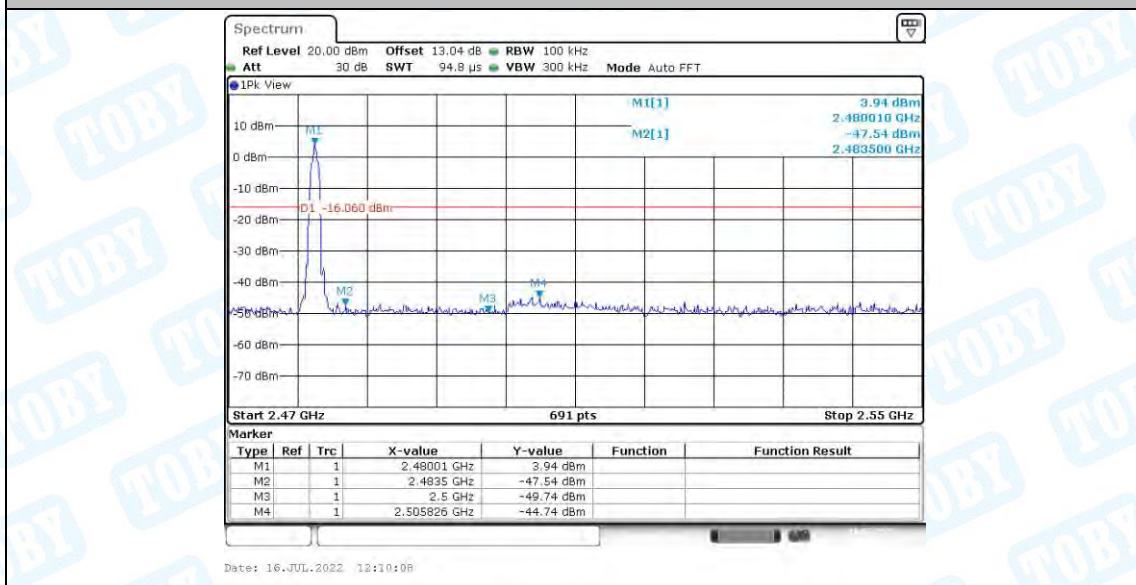
DH5_Ant1_Low_Hop_2402



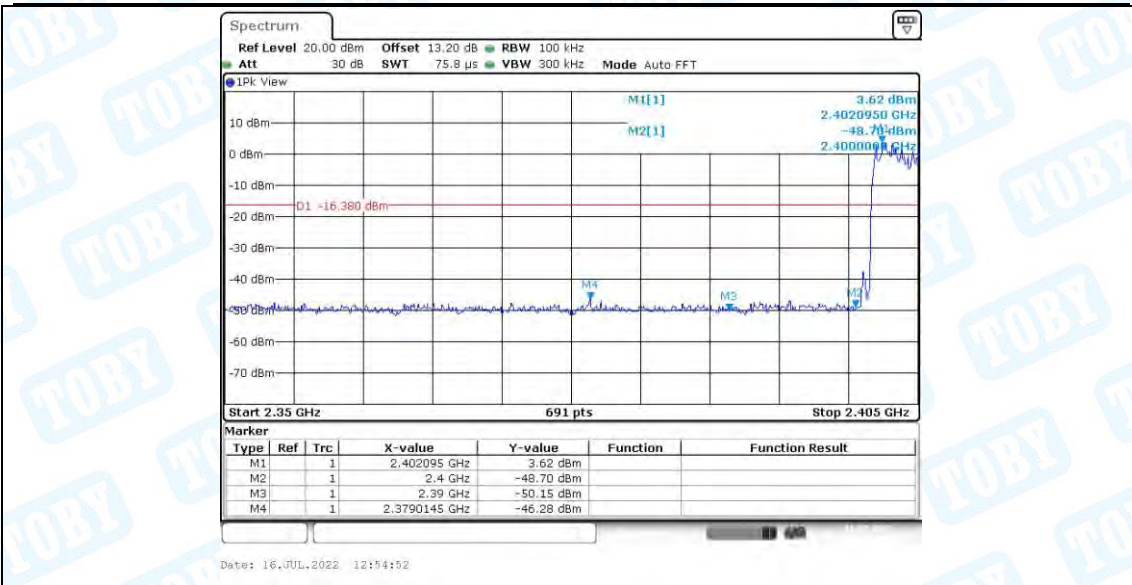
DH5_Ant1_High_Hop_2480



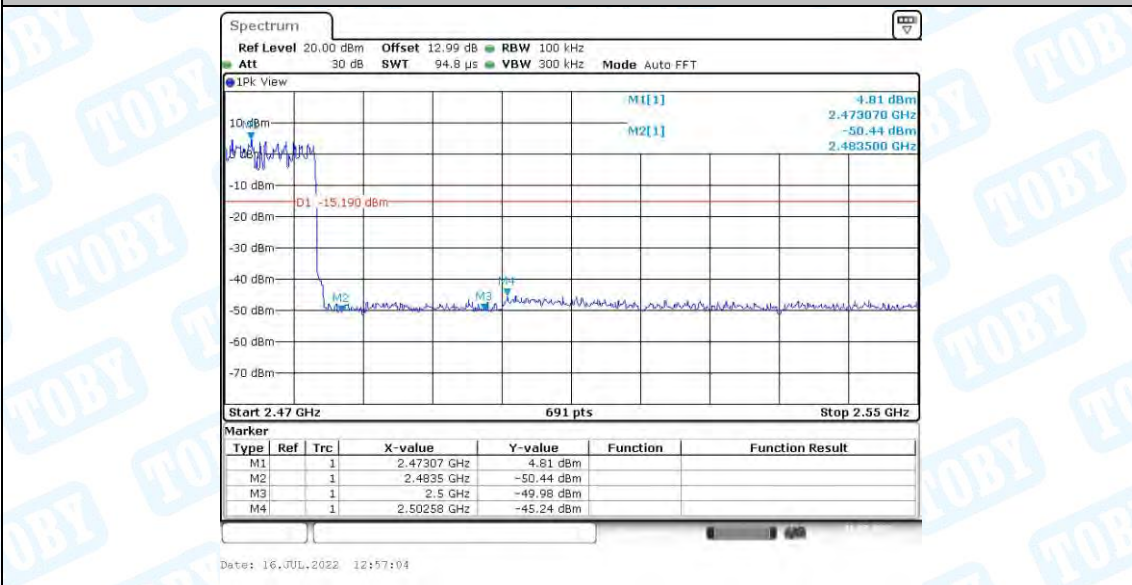
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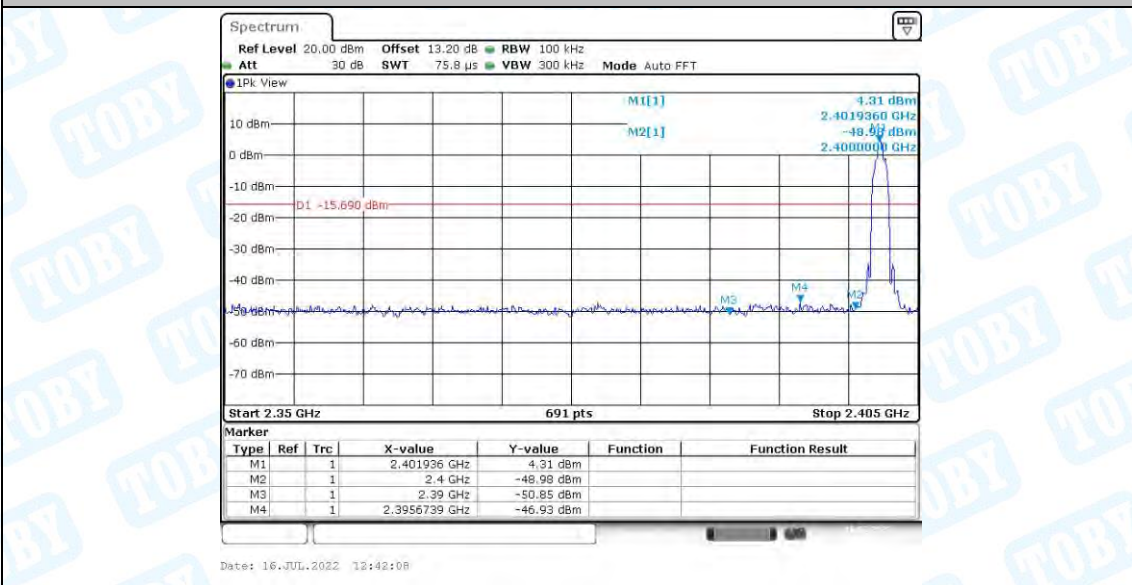
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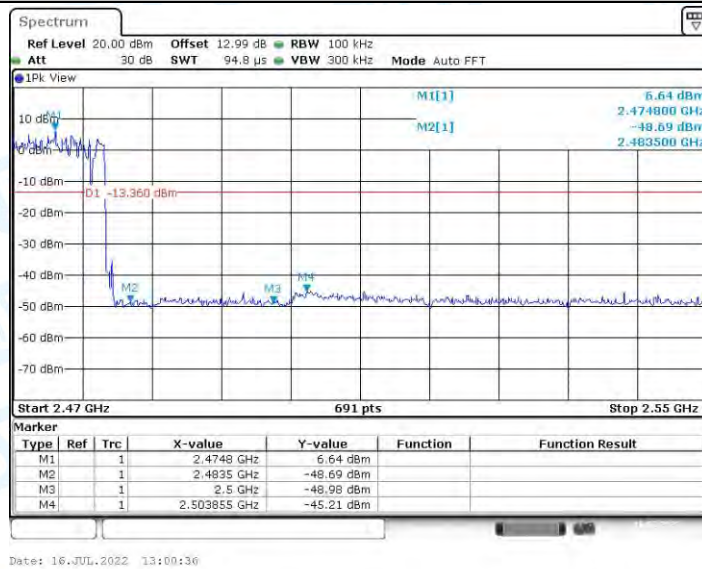
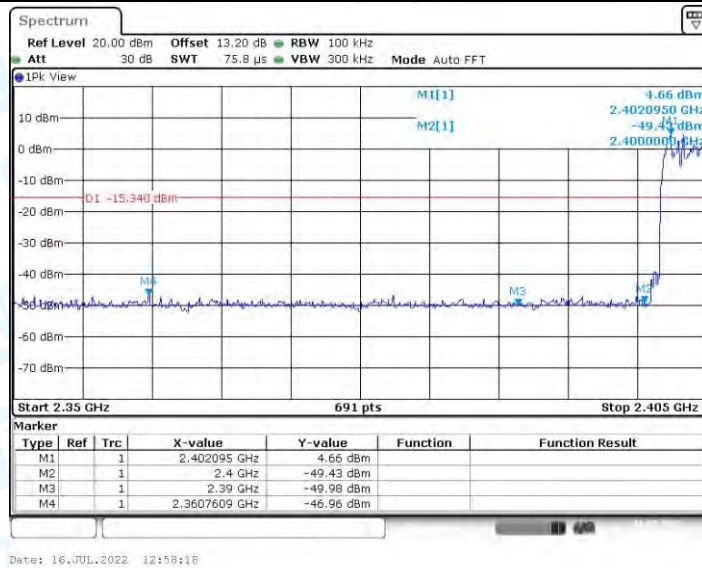
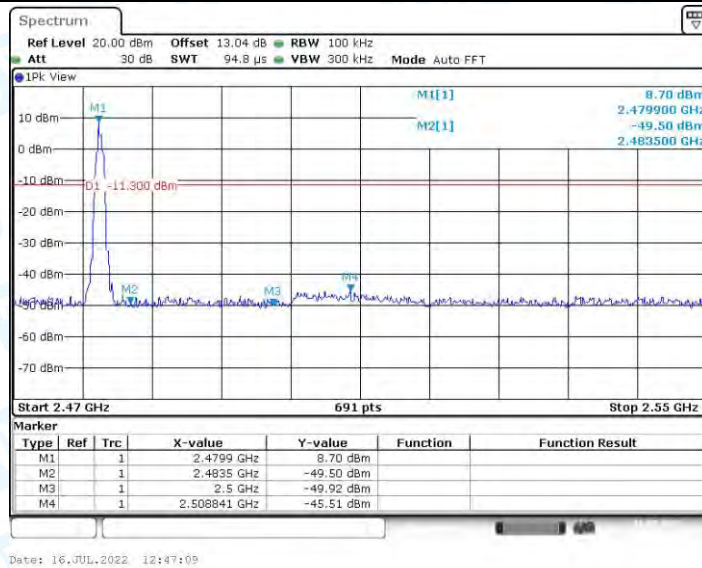
2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



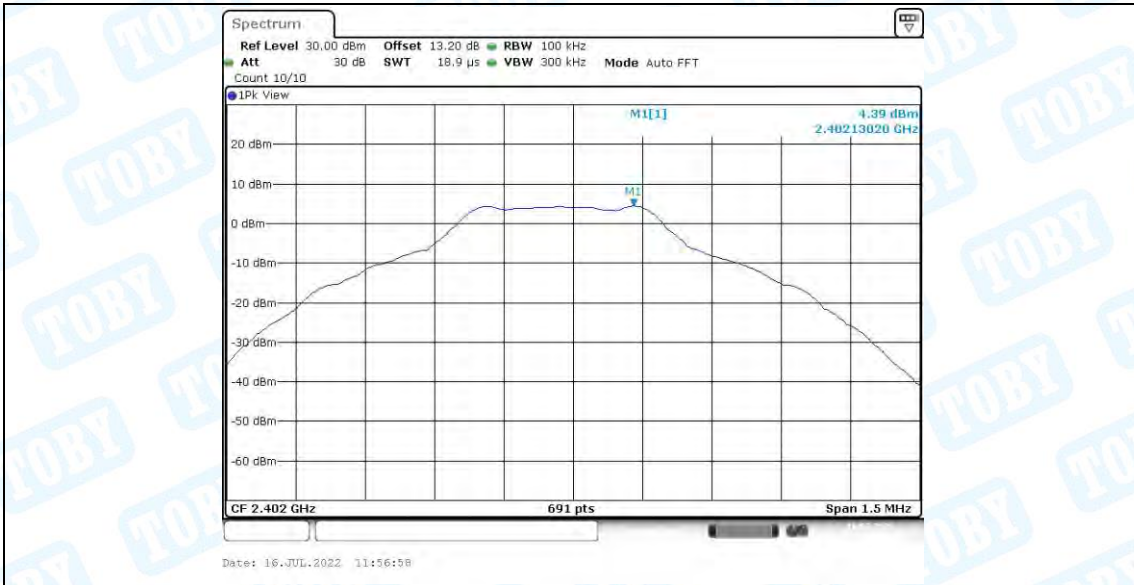
3DH5_Ant1_High_Hop_2480

8. Conducted Spurious Emission

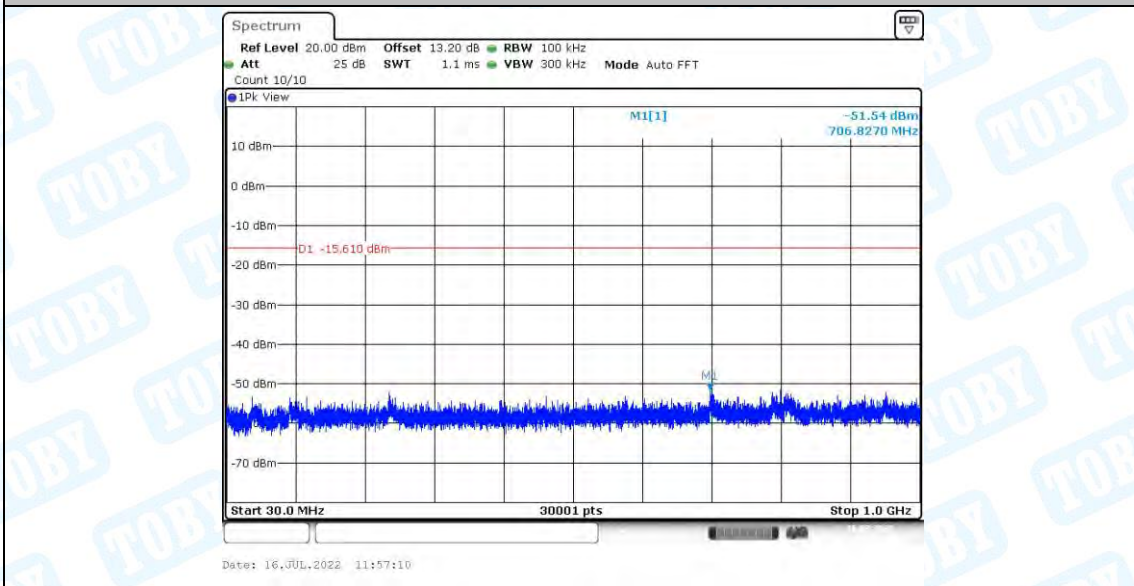
8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.39	4.39	---	PASS
			30~1000	4.39	-51.54	≤-15.61	PASS
			1000~26500	4.39	-44.77	≤-15.61	PASS
		2441	Reference	4.36	4.36	---	PASS
			30~1000	4.36	-50.79	≤-15.64	PASS
			1000~26500	4.36	-45.41	≤-15.64	PASS
		2480	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-51.79	≤-15.51	PASS
			1000~26500	4.49	-45.77	≤-15.51	PASS
2DH5	Ant1	2402	Reference	4.41	4.41	---	PASS
			30~1000	4.41	-50.72	≤-15.59	PASS
			1000~26500	4.41	-46.08	≤-15.59	PASS
		2441	Reference	4.42	4.42	---	PASS
			30~1000	4.42	-50.6	≤-15.58	PASS
			1000~26500	4.42	-45.7	≤-15.58	PASS
		2480	Reference	4.52	4.52	---	PASS
			30~1000	4.52	-50.71	≤-15.48	PASS
			1000~26500	4.52	-44.99	≤-15.48	PASS
3DH5	Ant1	2402	Reference	8.20	8.20	---	PASS
			30~1000	8.20	-51.32	≤-11.8	PASS
			1000~26500	8.20	-45.45	≤-11.8	PASS
		2441	Reference	9.38	9.38	---	PASS
			30~1000	9.38	-51.99	≤-10.62	PASS
			1000~26500	9.38	-46.15	≤-10.62	PASS
		2480	Reference	4.57	4.57	---	PASS
			30~1000	4.57	-51.24	≤-15.43	PASS
			1000~26500	4.57	-45.83	≤-15.43	PASS

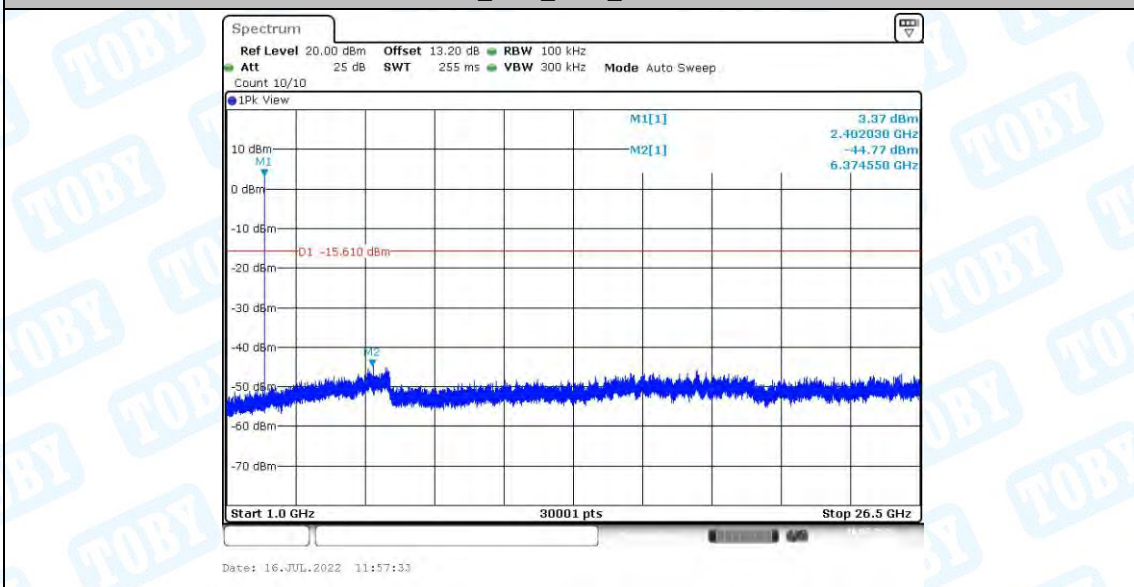
8.2. Test Graphs



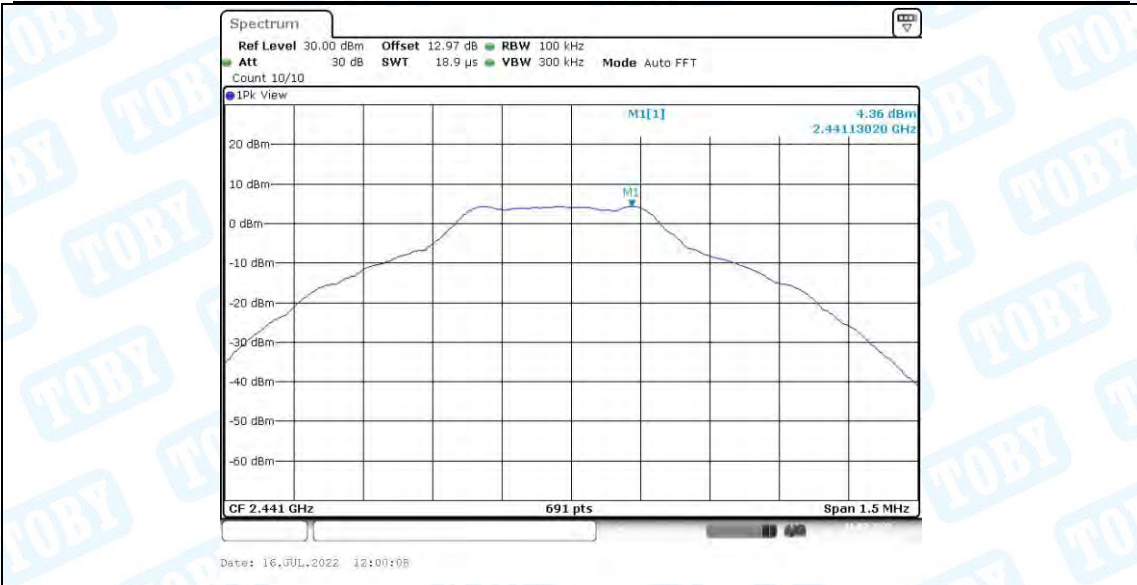
DH5_Ant1_2402_0~Reference



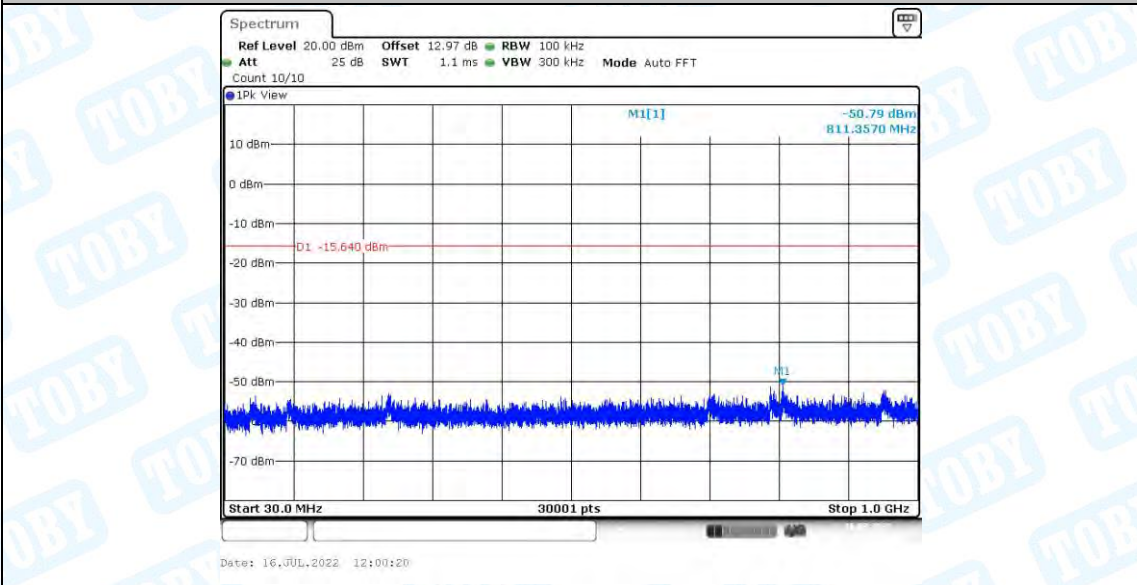
DH5_Ant1_2402_30~1000



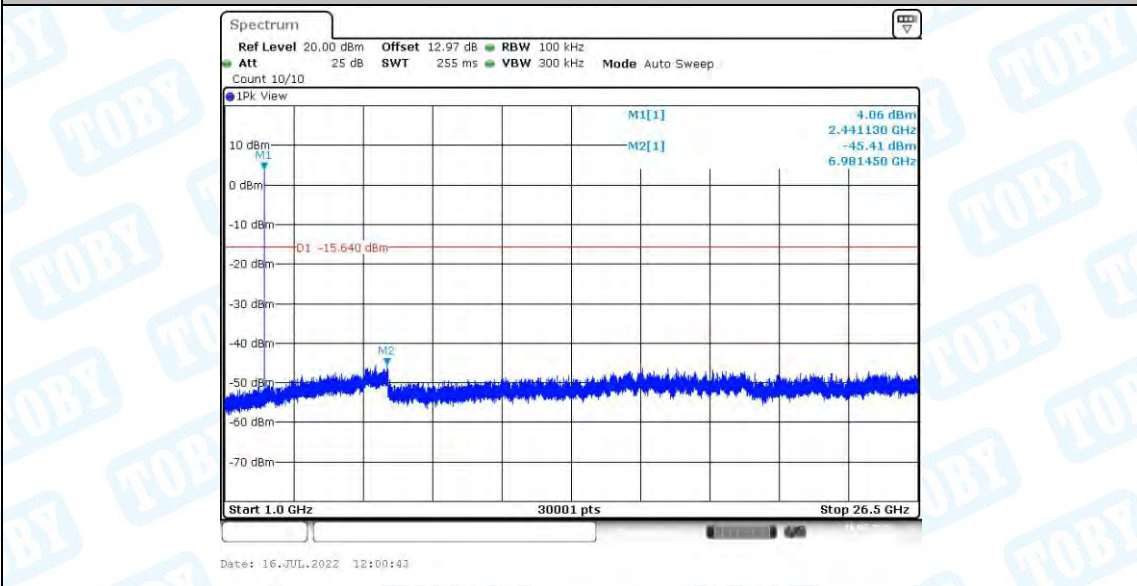
DH5_Ant1_2402_1000~26500



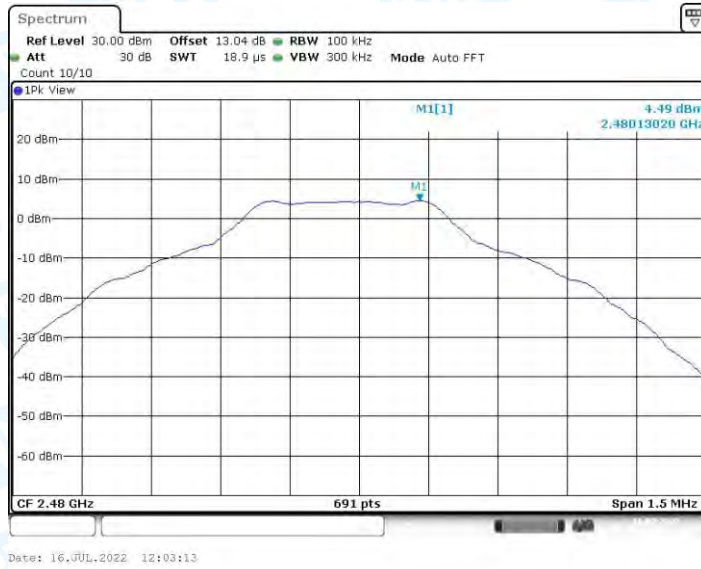
DH5_Ant1_2441_0~Reference



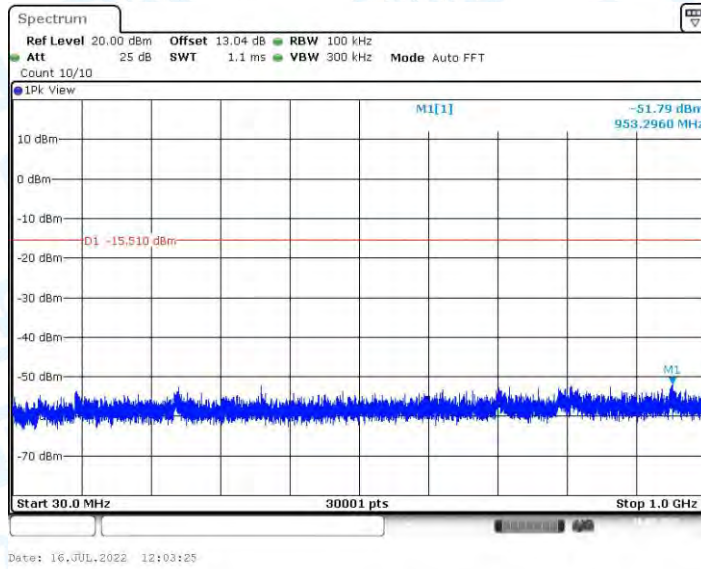
DH5_Ant1_2441_30~1000



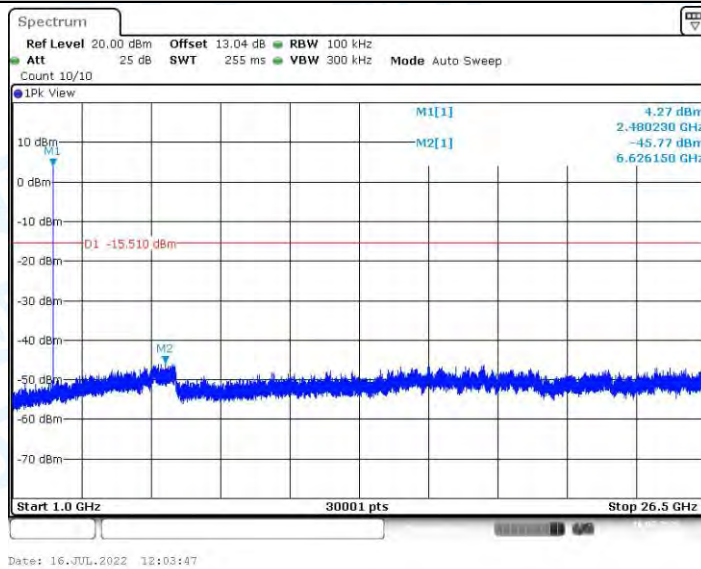
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



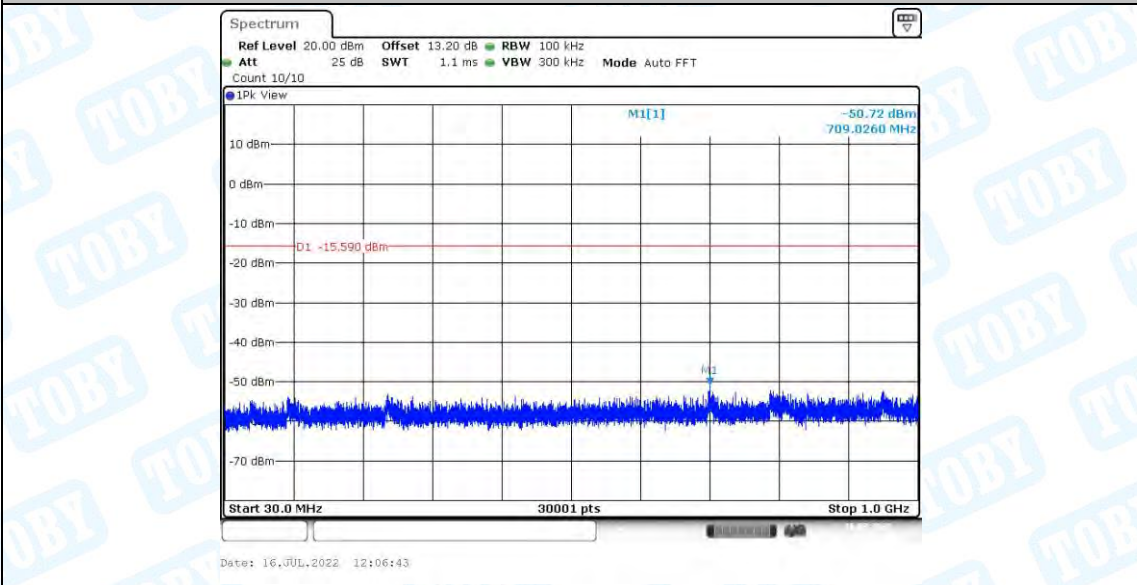
DH5_Ant1_2480_30~1000



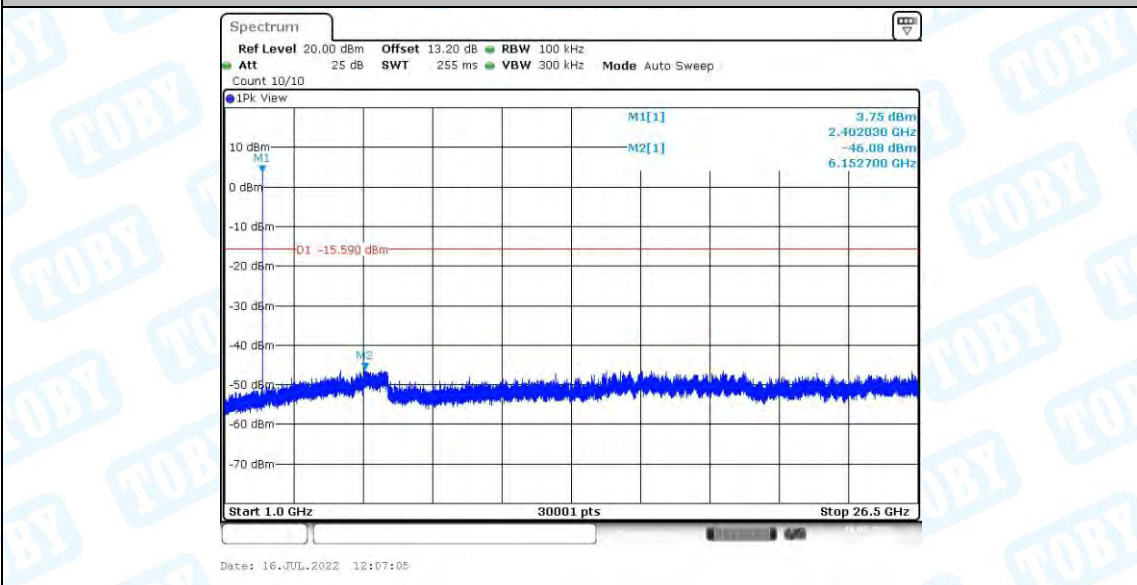
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2DH5_Ant1_2402_0~Reference



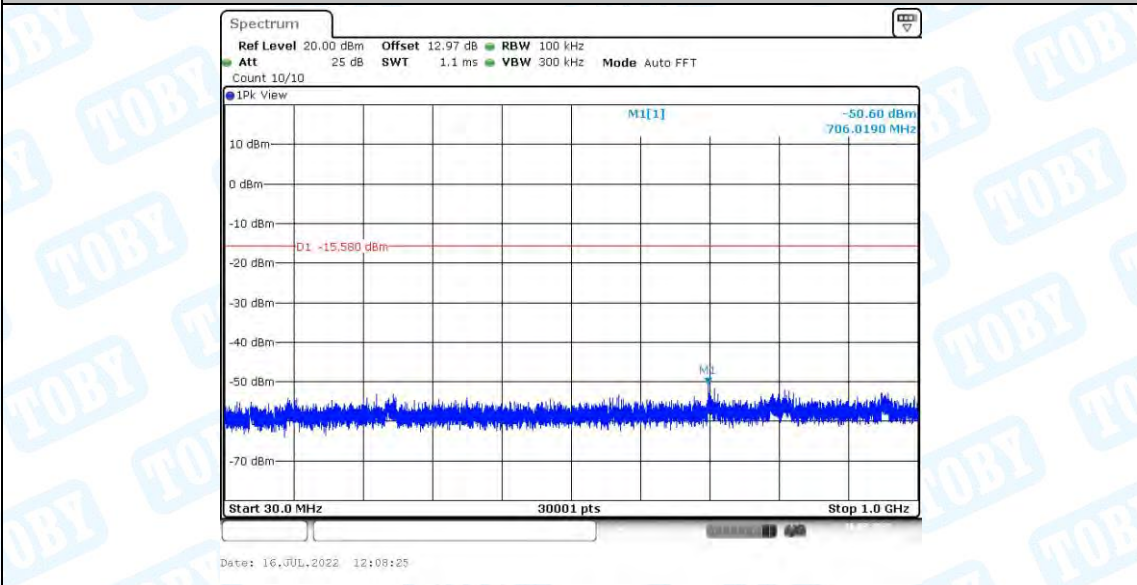
2DH5_Ant1_2402_30~1000



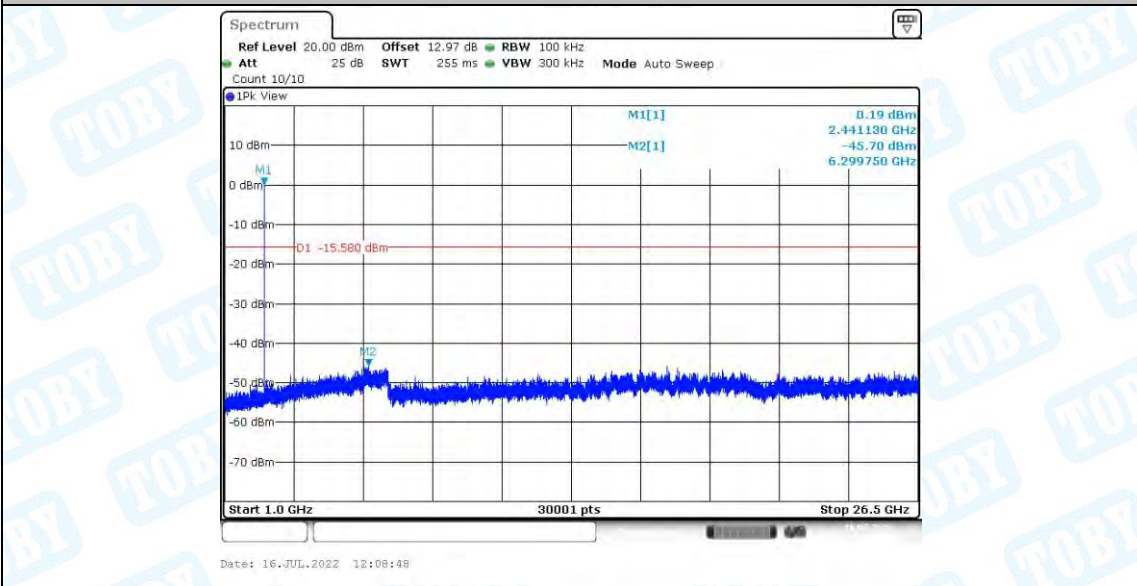
2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



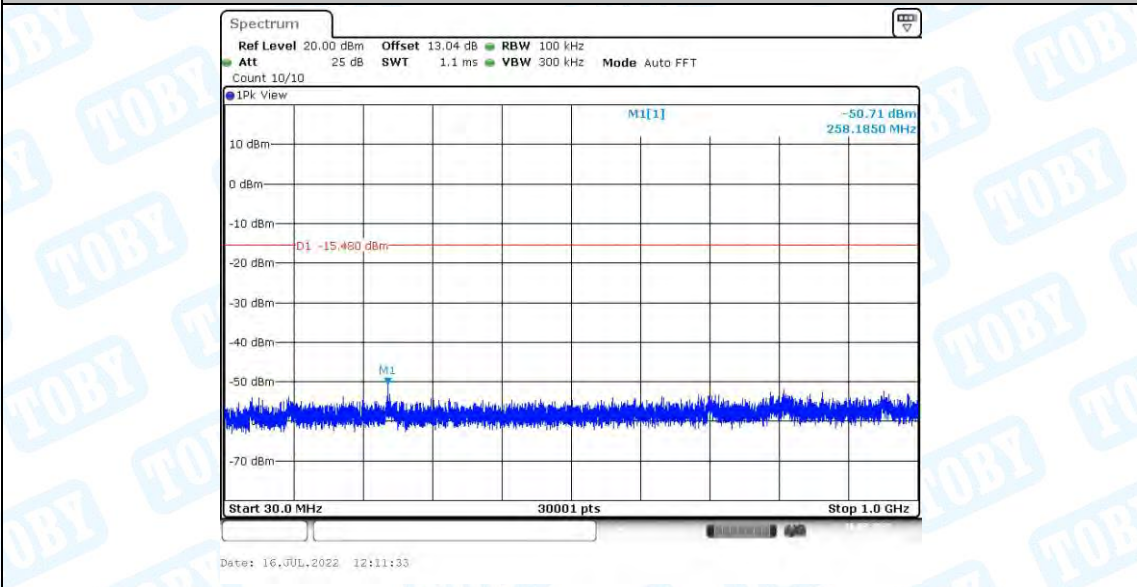
2DH5_Ant1_2441_30~1000



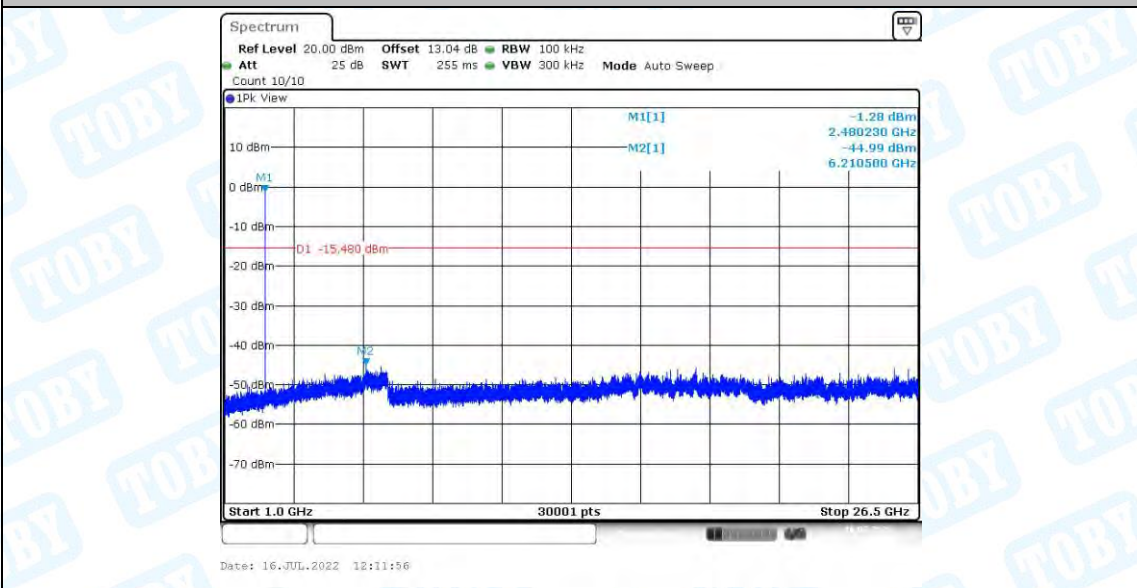
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



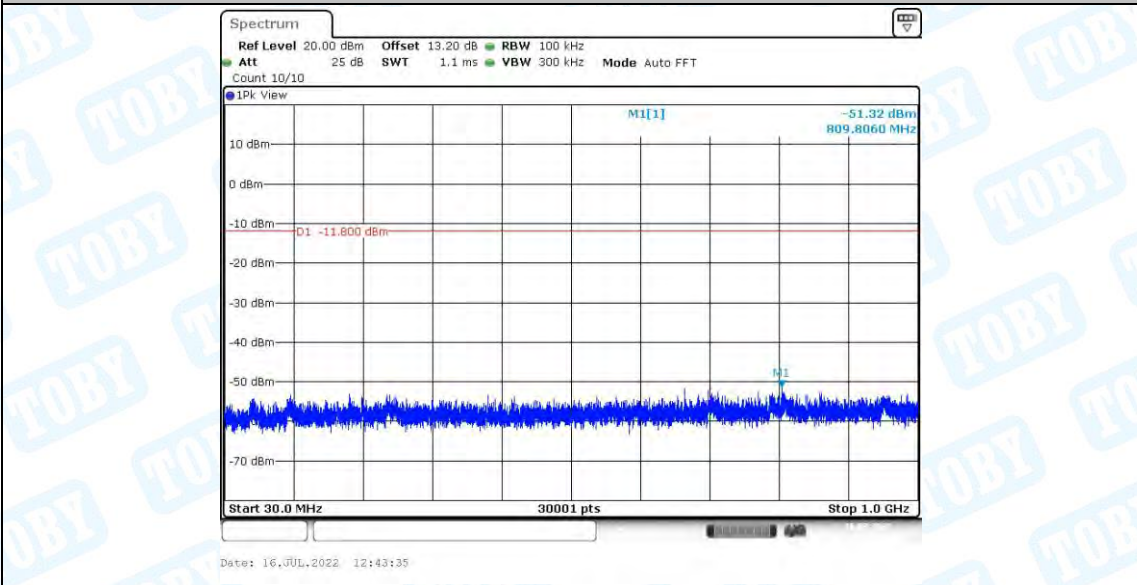
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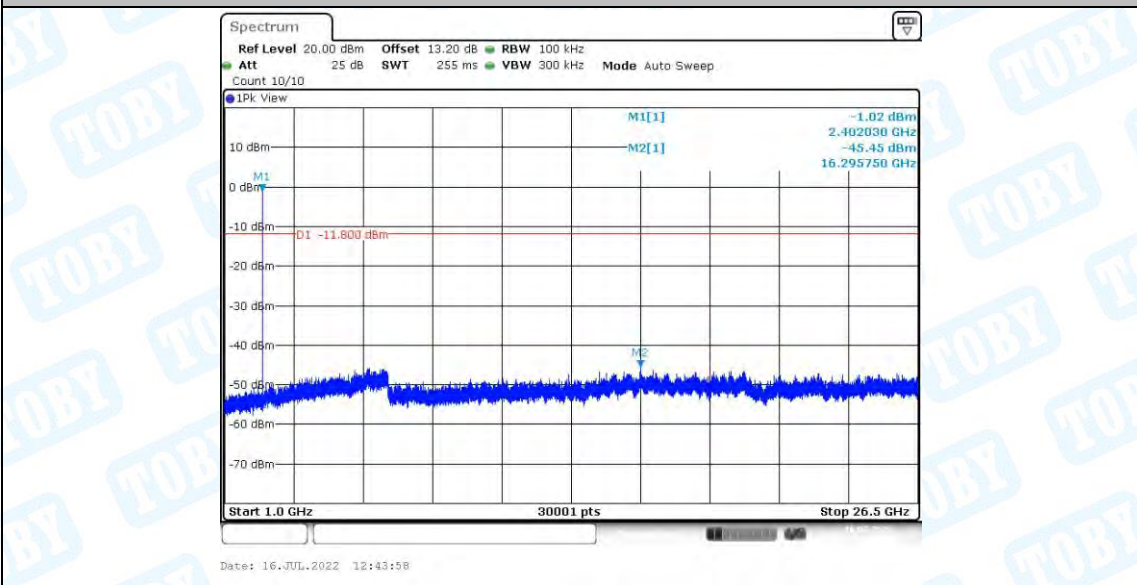
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



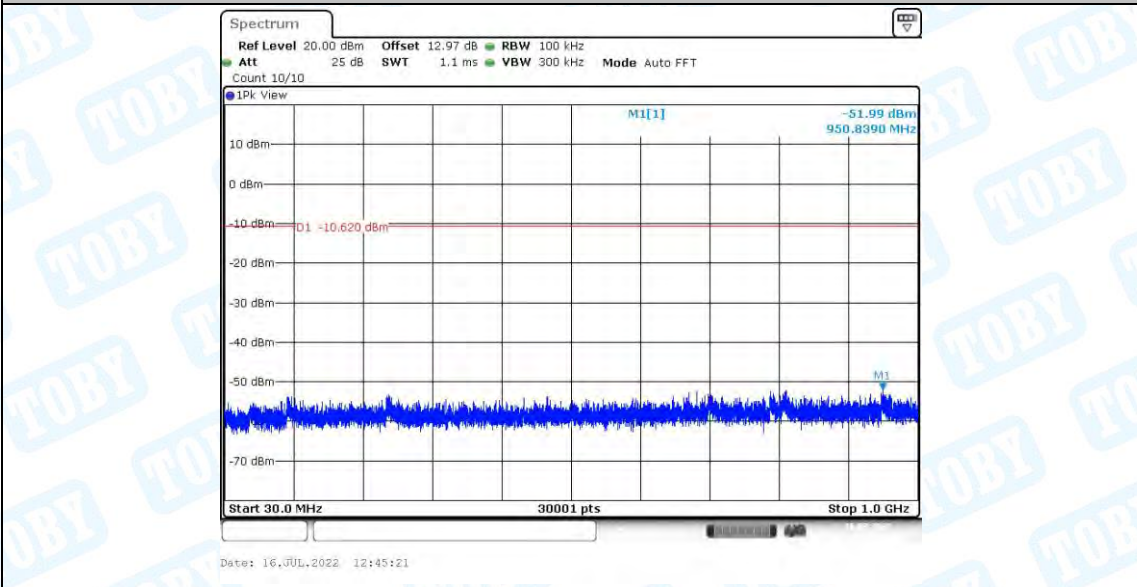
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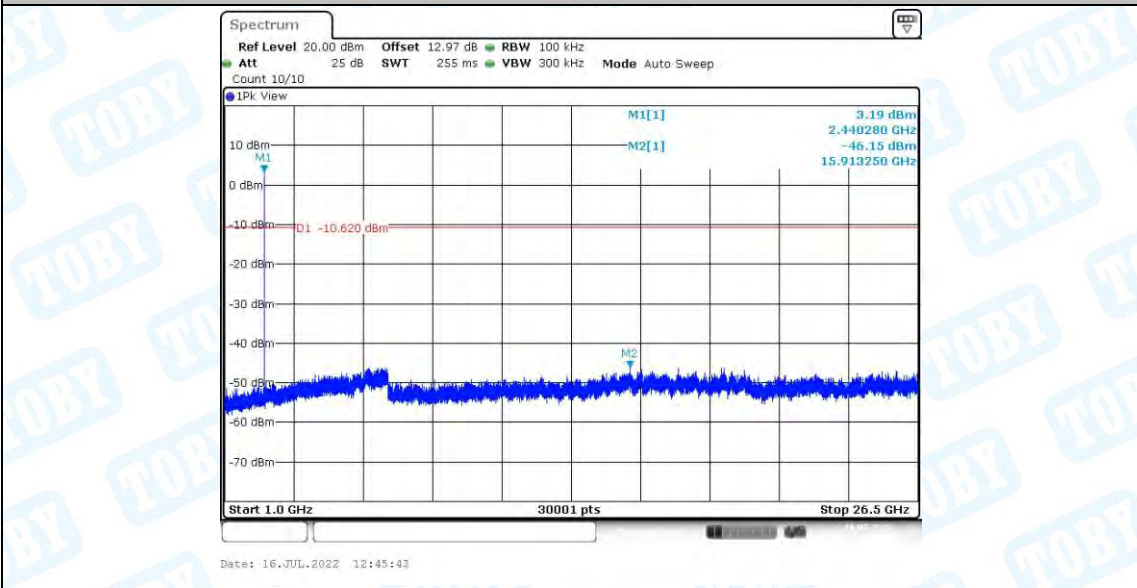
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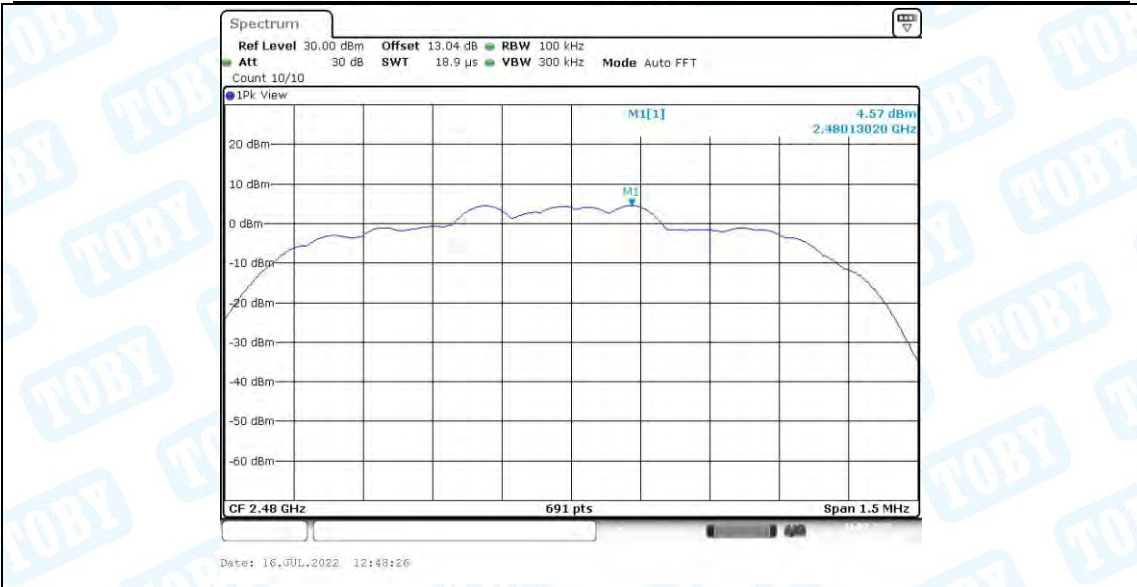
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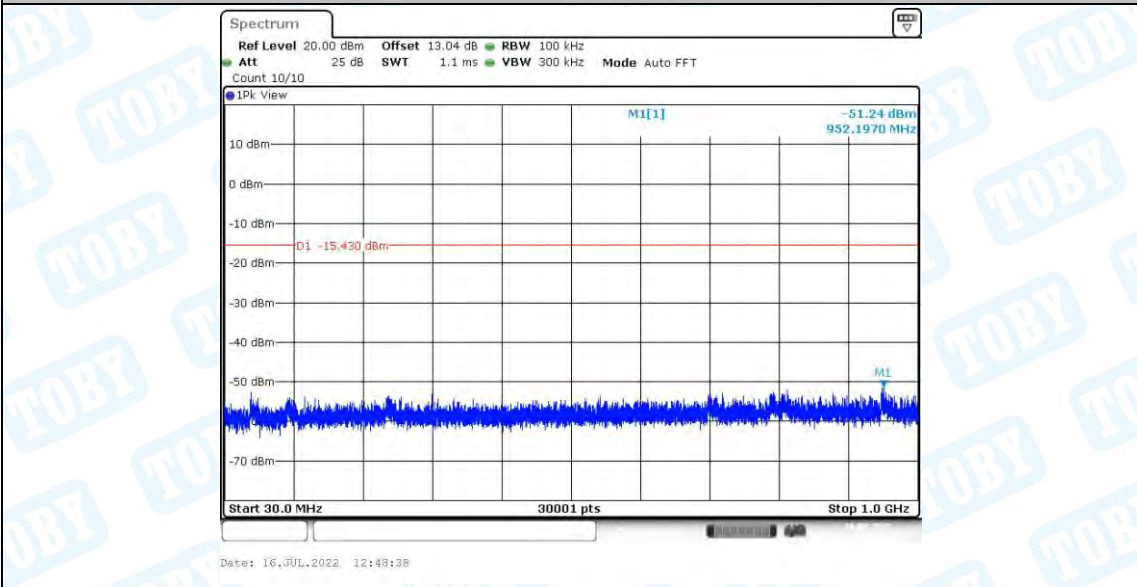
3DH5_Ant1_2441_30~1000



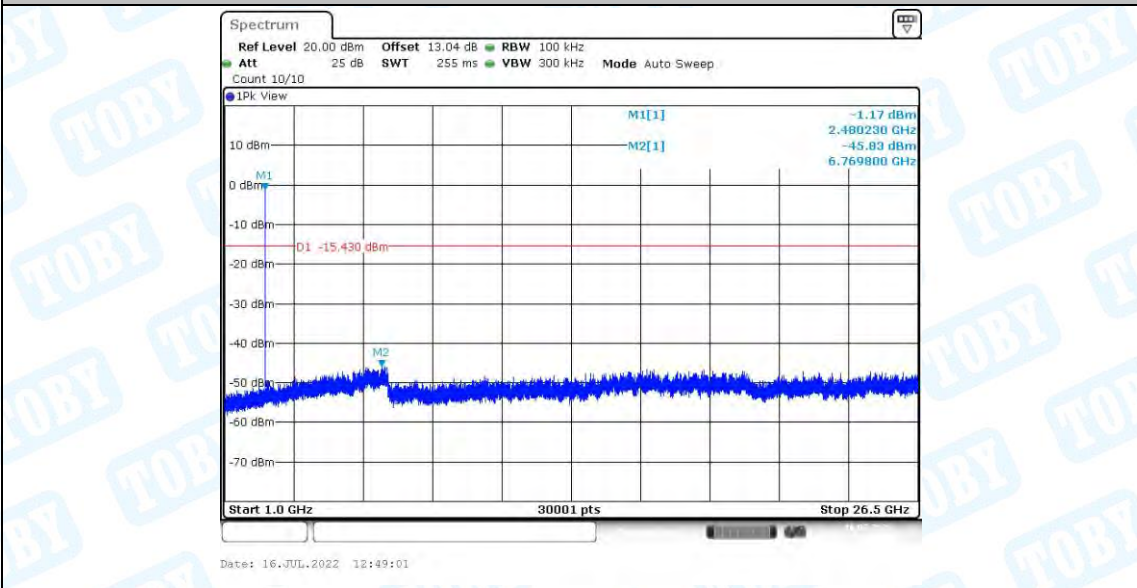
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



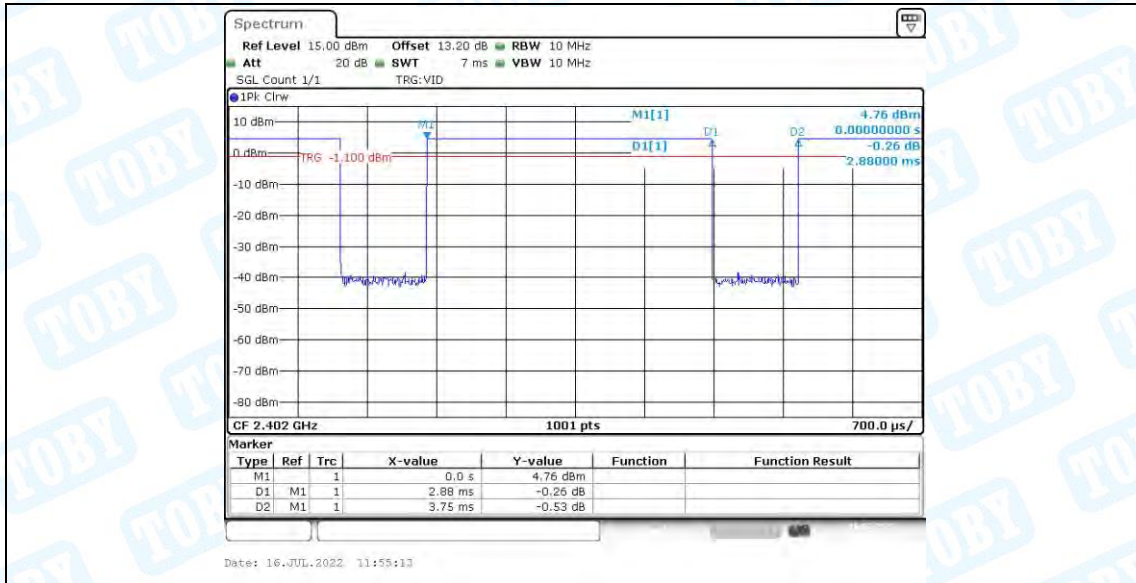
3DH5_Ant1_2480_1000~26500

9. Duty Cycle

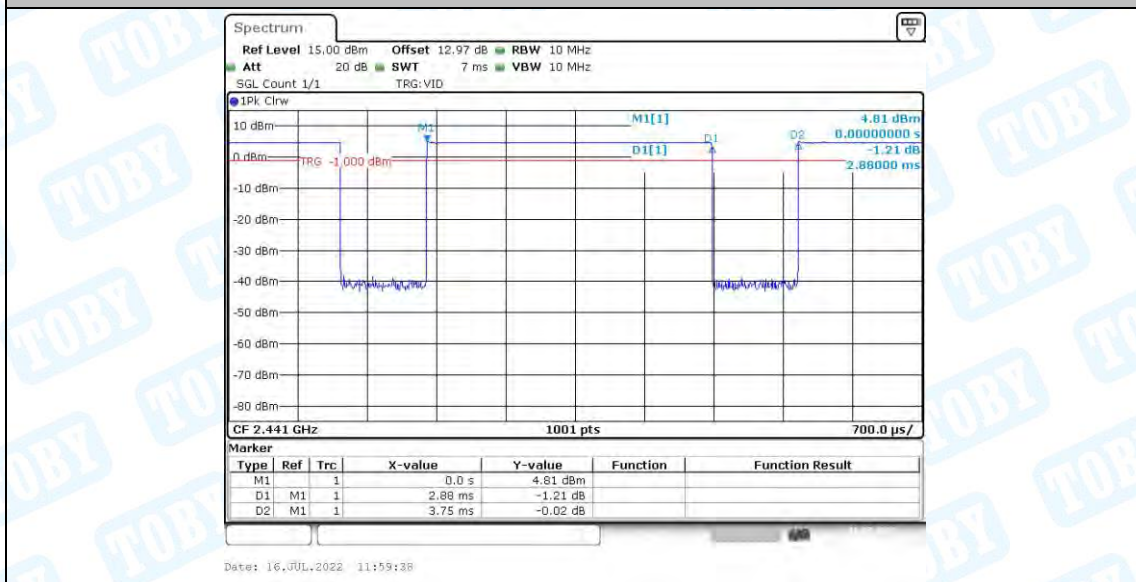
9.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	76.80	0.347	---	---
		2441	2.88	3.75	76.80	0.347	---	---
		2480	2.88	3.75	76.80	0.347	---	---
2DH5	Ant1	2402	2.88	3.75	76.80	0.347	---	---
		2441	2.89	3.75	77.07	0.346	---	---
		2480	2.88	3.75	76.80	0.347	---	---
3DH5	Ant1	2402	2.89	3.75	77.07	0.346	---	---
		2441	2.89	3.75	77.07	0.346	---	---
		2480	2.89	5.00	57.80	0.346	---	---

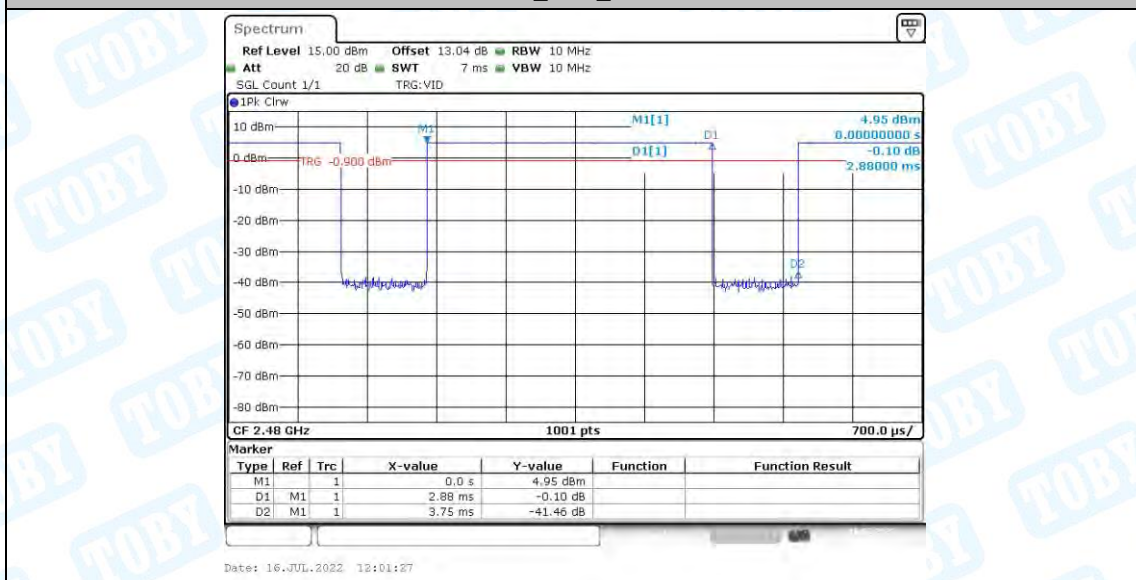
9.2. Test Graphs



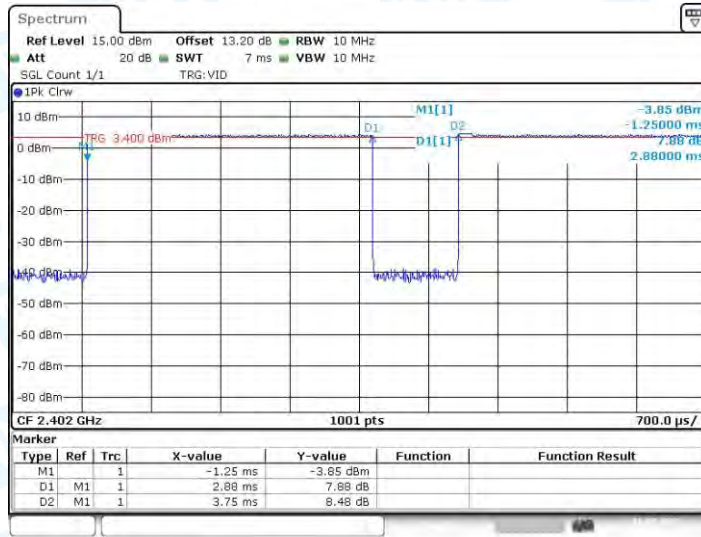
DH5_Ant1_2402



DH5_Ant1_2441

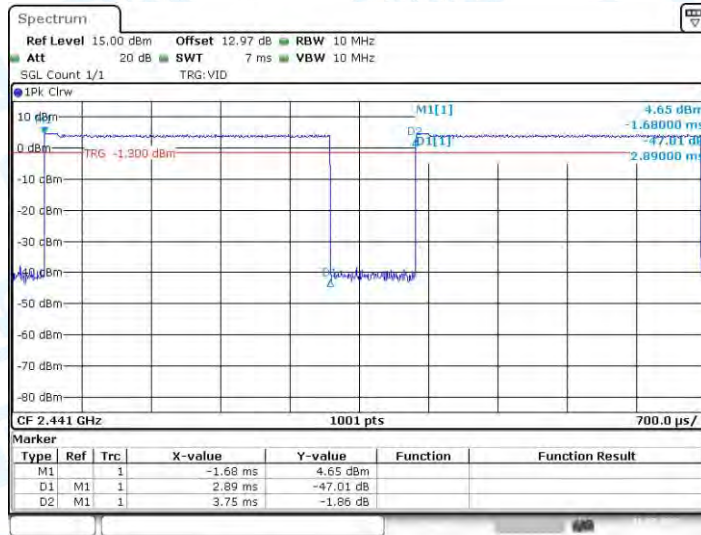


DH5_Ant1_2480



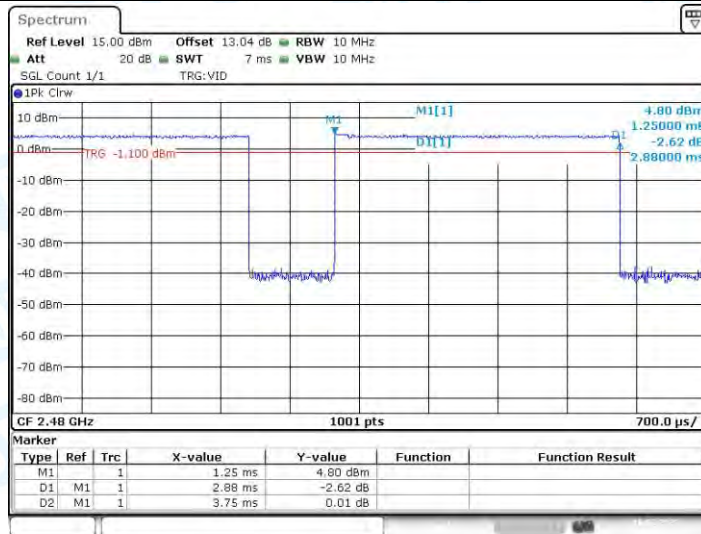
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2DH5_Ant1_2402



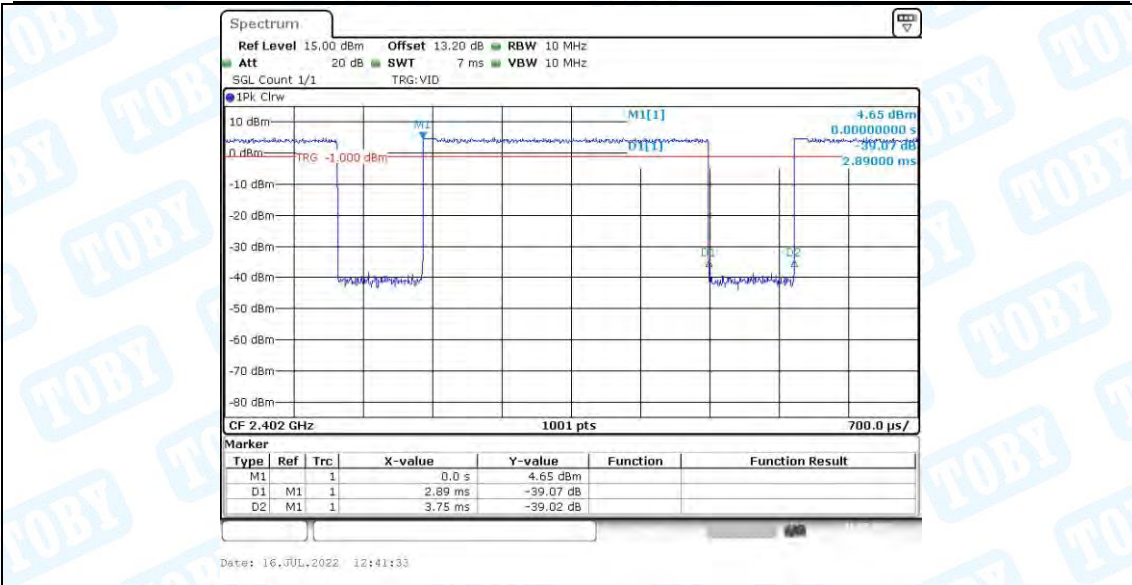
Date: 16.JUL.2022 12:07:42

2DH5_Ant1_2441

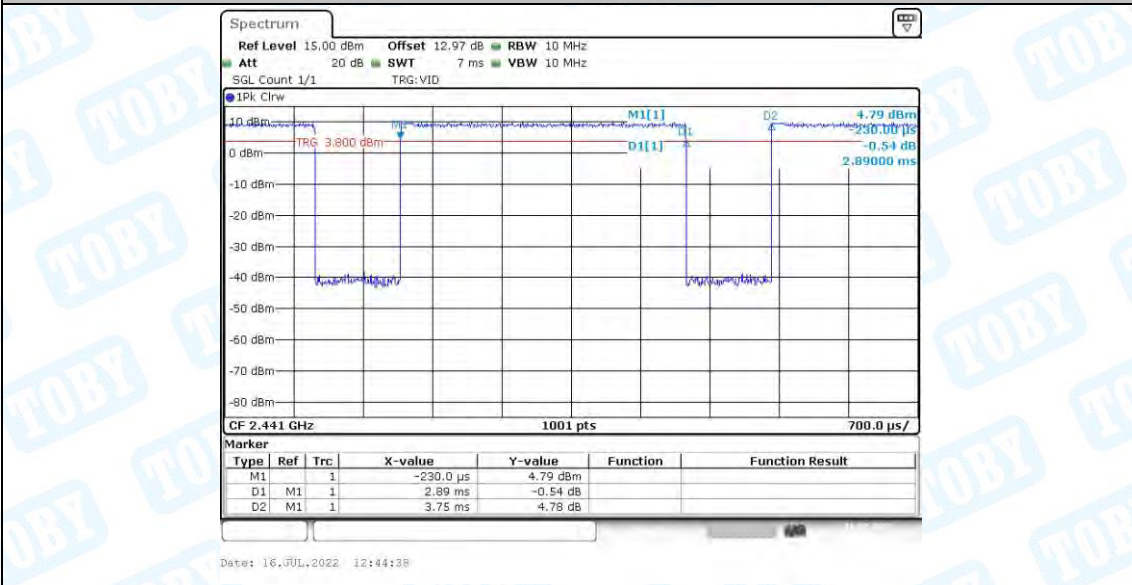


Date: 16.JUL.2022 12:09:36

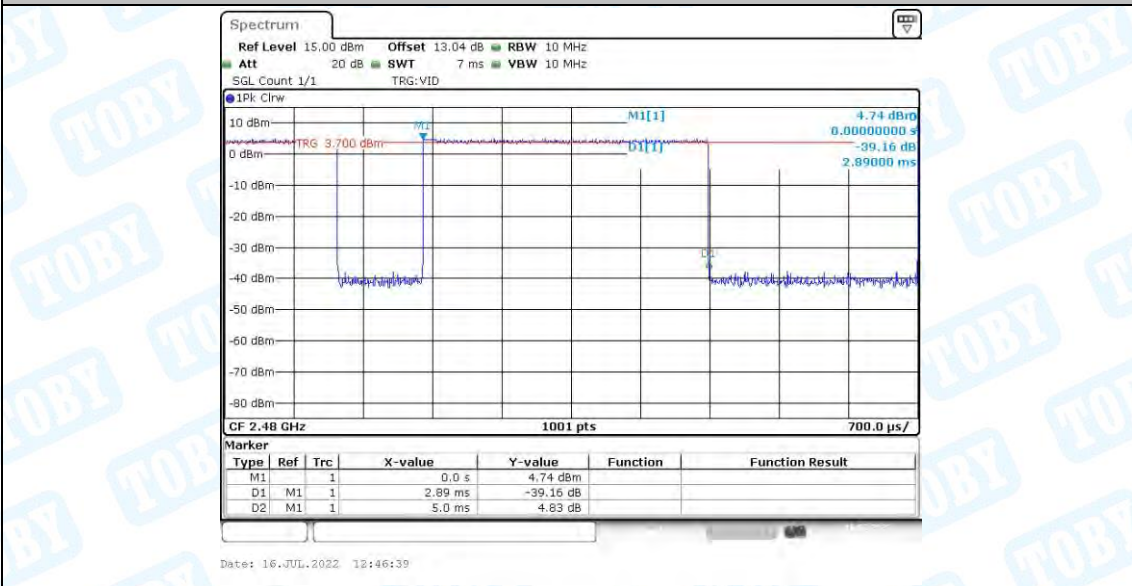
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

10. Emissions in Restricted Bands

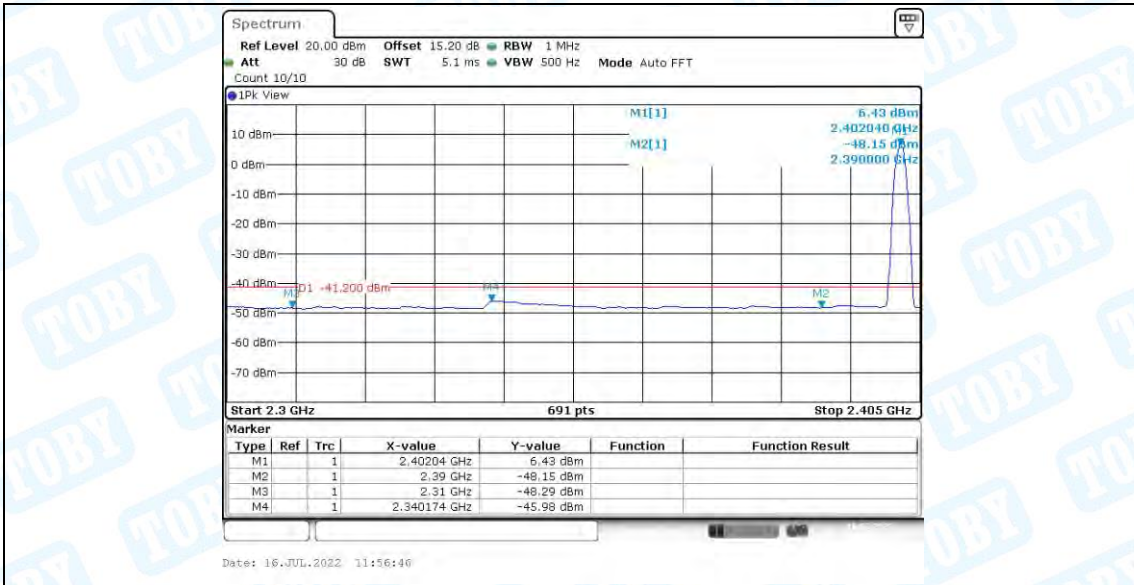
10.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.29	≤-41.20	PASS
				AV	2340.174	-45.98	≤-41.20	PASS
				AV	2390.000	-48.15	≤-41.20	PASS
				Peak	2310.000	-38.12	≤-21.20	PASS
				Peak	2347.022	-33.91	≤-21.20	PASS
				Peak	2390.000	-38.11	≤-21.20	PASS
		High	2480	AV	2483.500	-47.46	≤-41.20	PASS
				AV	2497.246	-47.14	≤-41.20	PASS
				AV	2500.000	-47.49	≤-41.20	PASS
				Peak	2483.500	-38.49	≤-21.20	PASS
				Peak	2499.333	-34.51	≤-21.20	PASS
				Peak	2500.000	-37.31	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.42	≤-41.20	PASS
				AV	2340.630	-45.88	≤-41.20	PASS
				AV	2390.000	-48.17	≤-41.20	PASS
				Peak	2310.000	-37.44	≤-21.20	PASS
				Peak	2340.783	-34.46	≤-21.20	PASS
				Peak	2390.000	-36.92	≤-21.20	PASS
		High	2480	AV	2483.500	-47.64	≤-41.20	PASS
				AV	2484.145	-47.21	≤-41.20	PASS
				AV	2500.000	-47.47	≤-41.20	PASS
				Peak	2483.500	-37.67	≤-21.20	PASS
				Peak	2499.913	-34.44	≤-21.20	PASS
				Peak	2500.000	-34.59	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.32	≤-41.20	PASS
				AV	2341.391	-46.01	≤-41.20	PASS
				AV	2390.000	-48.29	≤-41.20	PASS
				Peak	2310.000	-37.62	≤-21.20	PASS
				Peak	2340.935	-34.25	≤-21.20	PASS
				Peak	2390.000	-38.17	≤-21.20	PASS
		High	2480	AV	2483.500	-47.5	≤-41.20	PASS
				AV	2497.362	-46.99	≤-41.20	PASS
				AV	2500.000	-47.45	≤-41.20	PASS
				Peak	2483.500	-38.67	≤-21.20	PASS
				Peak	2499.565	-35.29	≤-21.20	PASS
				Peak	2500.000	-36.35	≤-21.20	PASS

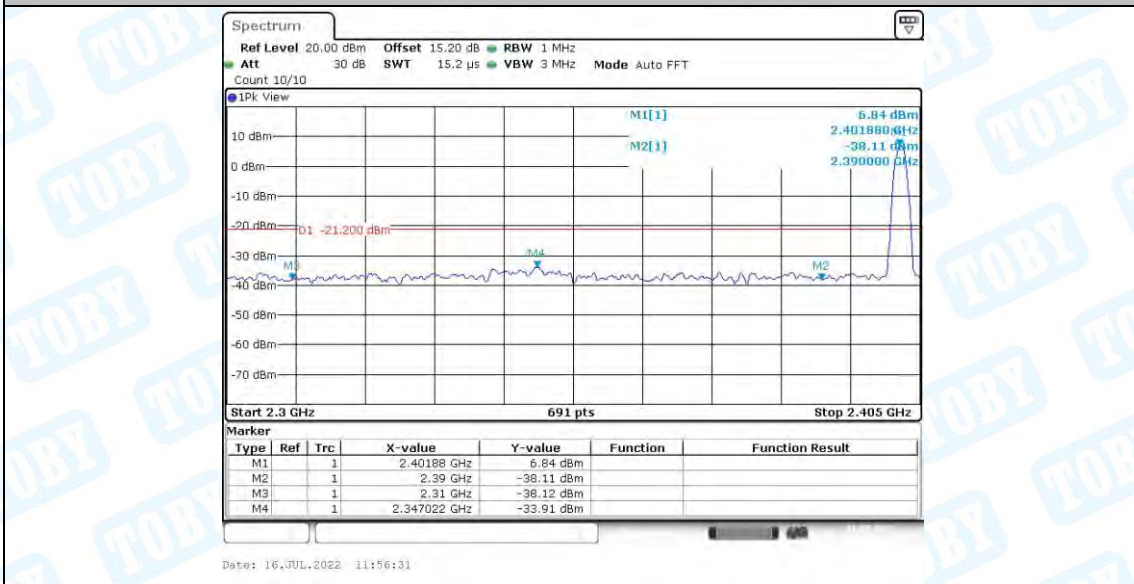
Note:

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.

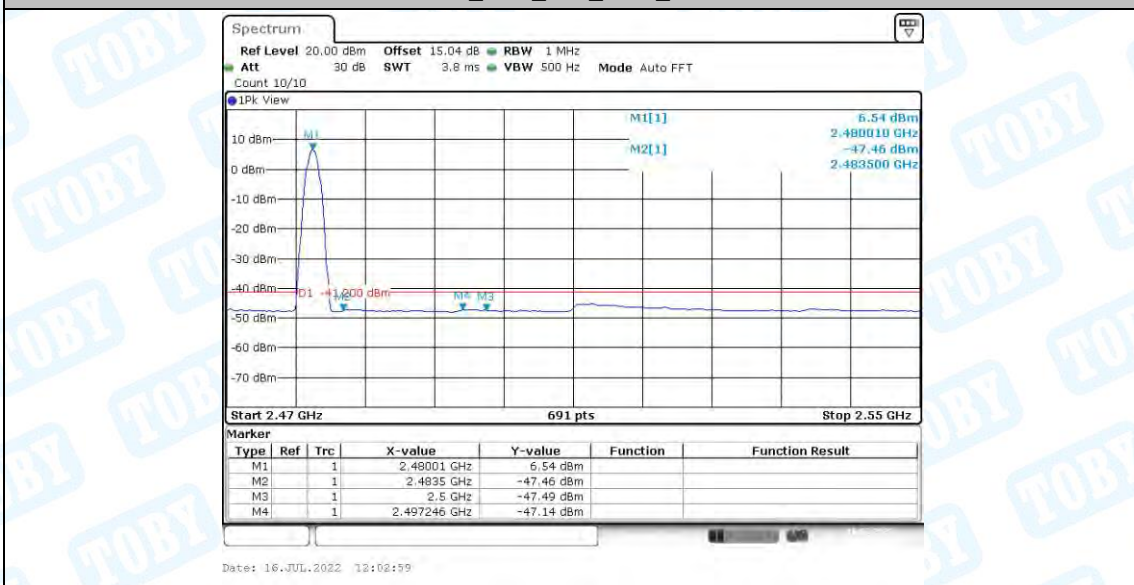
10.2. Test Graphs



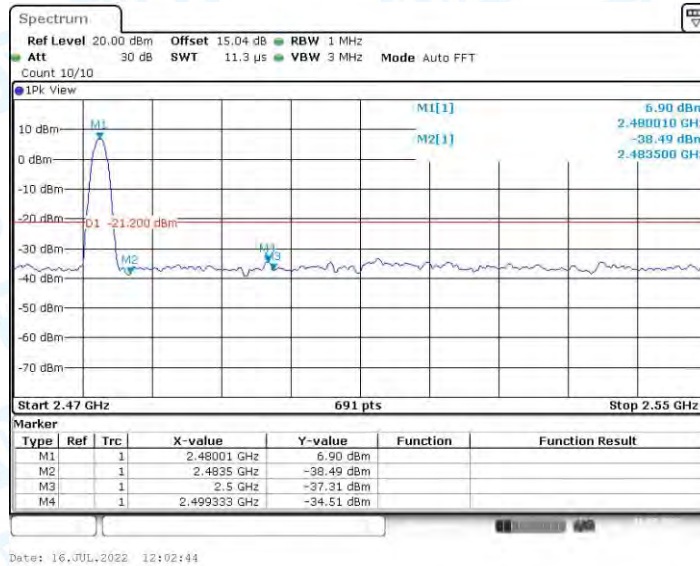
DH5_Ant1_Low_2402_AV



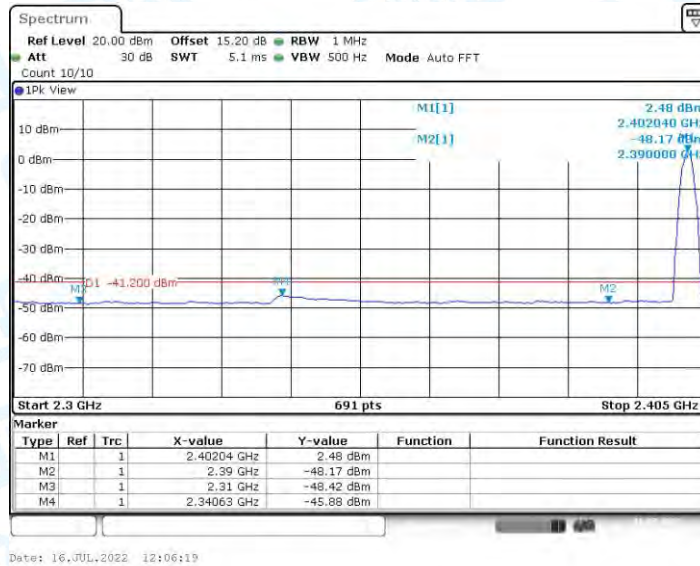
DH5_Ant1_Low_2402_Peak



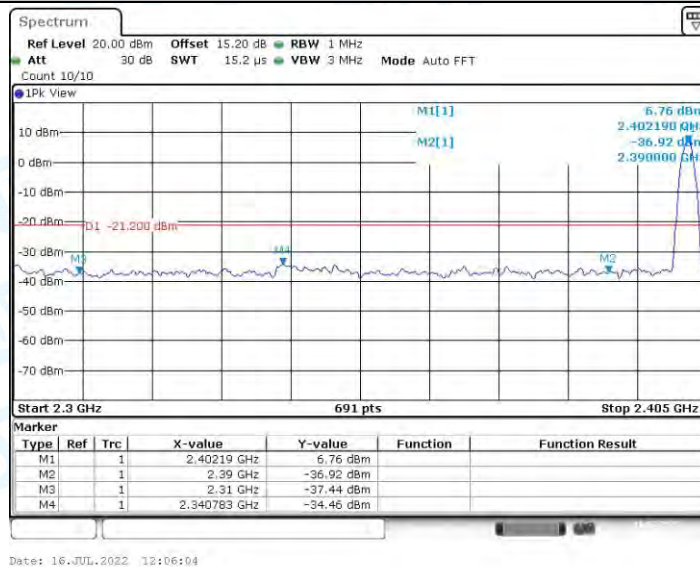
DH5_Ant1_High_2480_AV



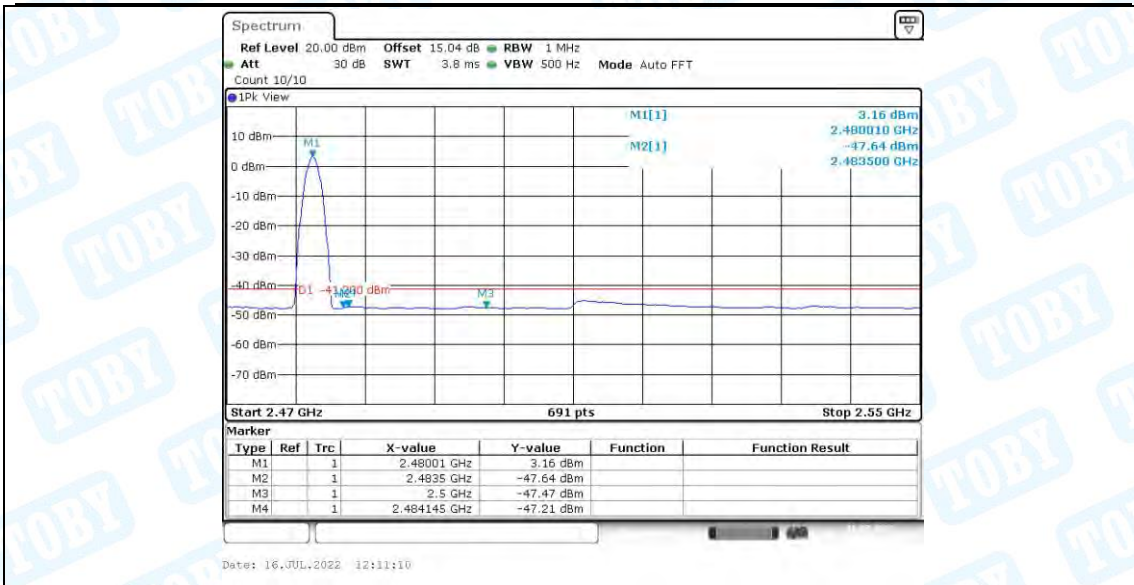
DH5_Ant1_High_2480_Peak



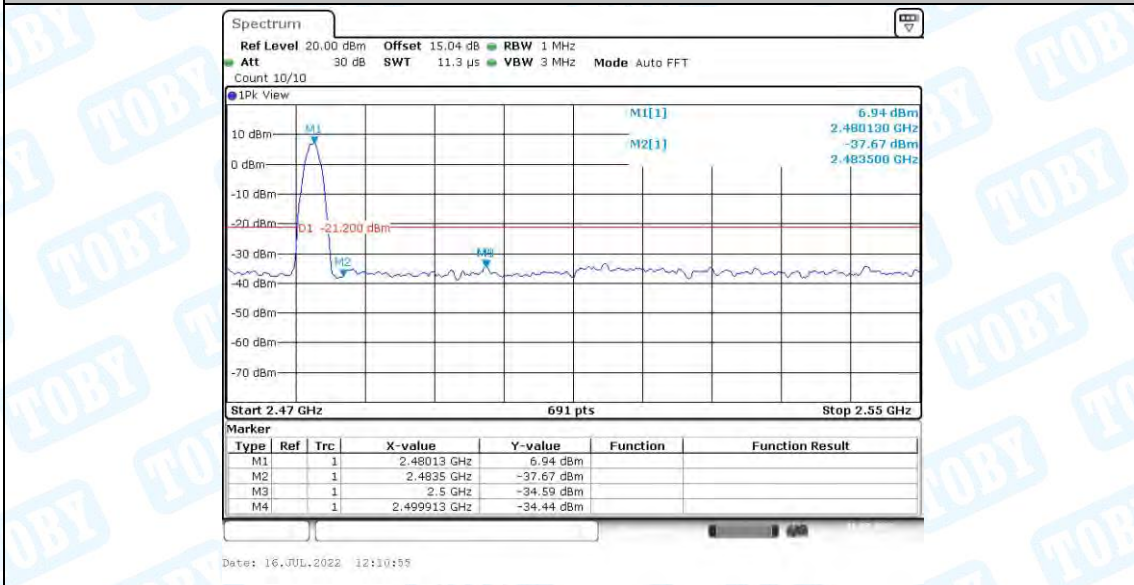
2DH5_Ant1_Low_2402_AV



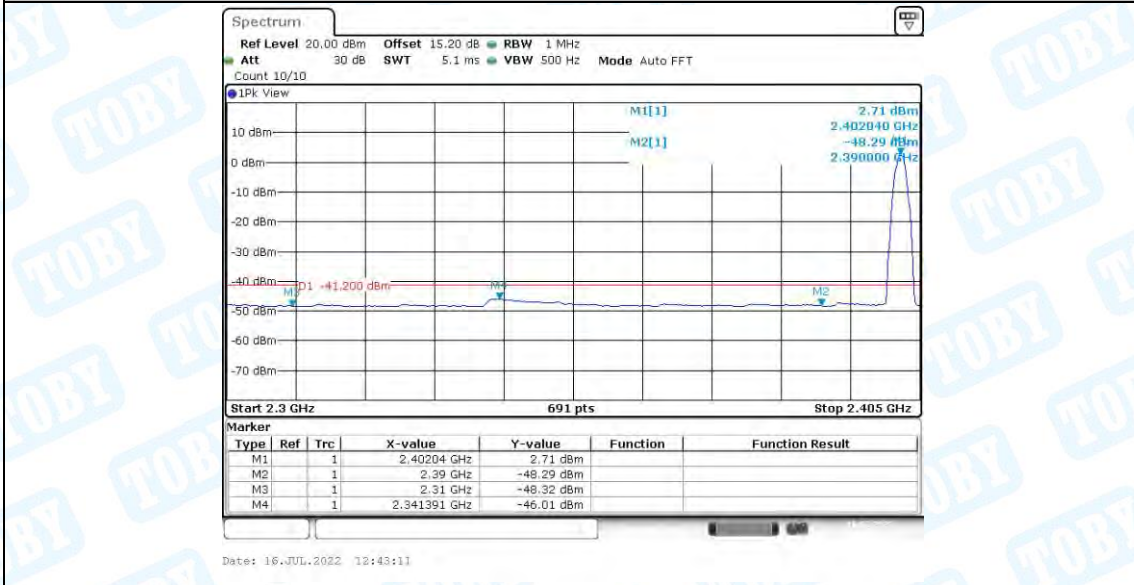
2DH5_Ant1_Low_2402_Peak



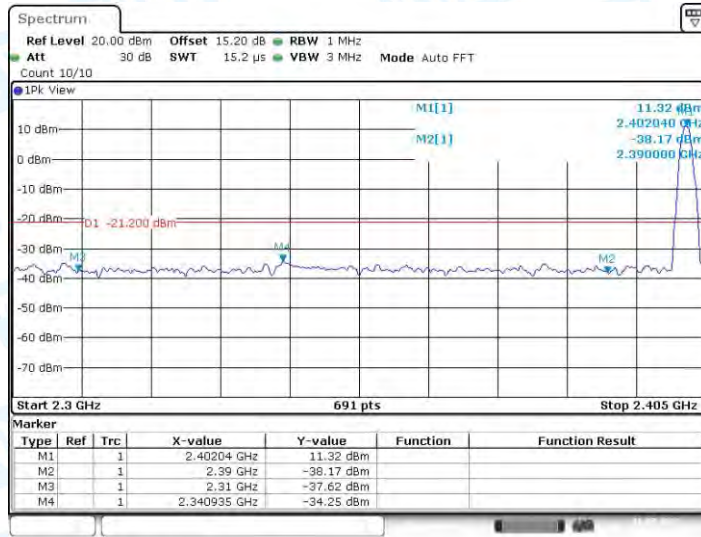
2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak

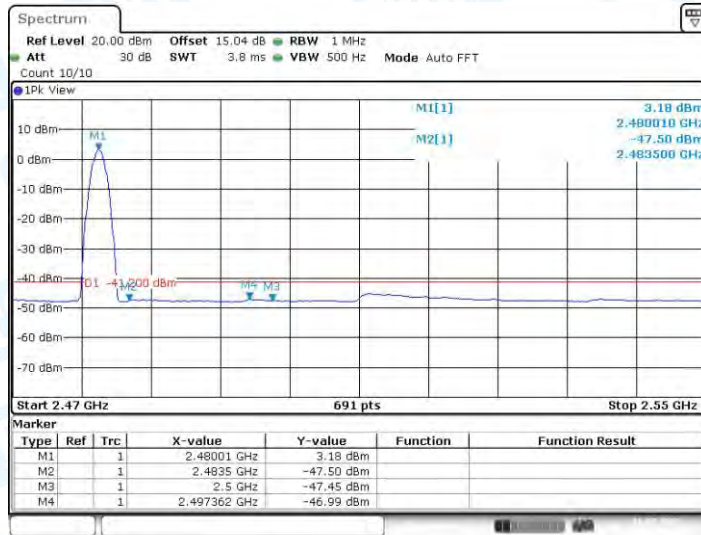


3DH5_Ant1_Low_2402_AV



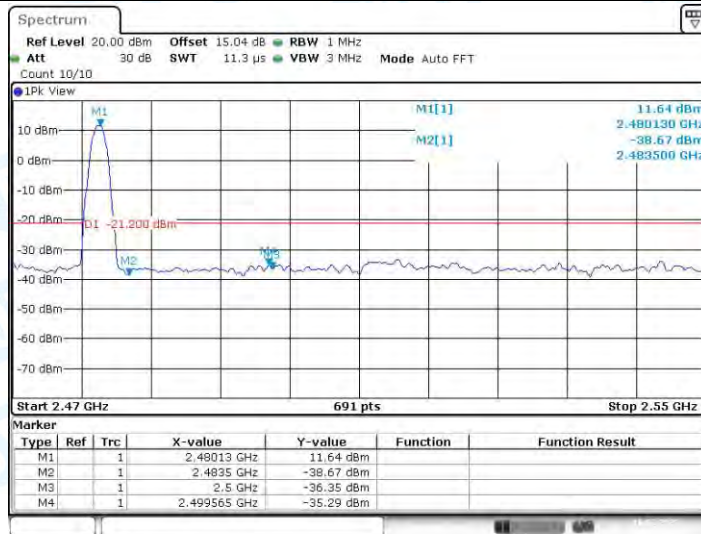
Date: 16.JUL.2022 12:42:55

3DH5_Ant1_Low_2402_Peak



Date: 16.JUL.2022 12:48:14

3DH5_Ant1_High_2480_AV



Date: 16.JUL.2022 12:47:58

3DH5_Ant1_High_2480_Peak

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