

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

General Description of EUT	
Product Name:	7" Tablet
Test Model:	100071481
Sample ID:	20211116-07-1#
Environmental Conditions	
Temperature:	24.6°C
Relative Humidity:	49%
Test Voltage:	DC 3.85V
Test Engineer:	JianPing Huang
Note: For a more detailed features description, please refer to the report TB-FCC185299.	

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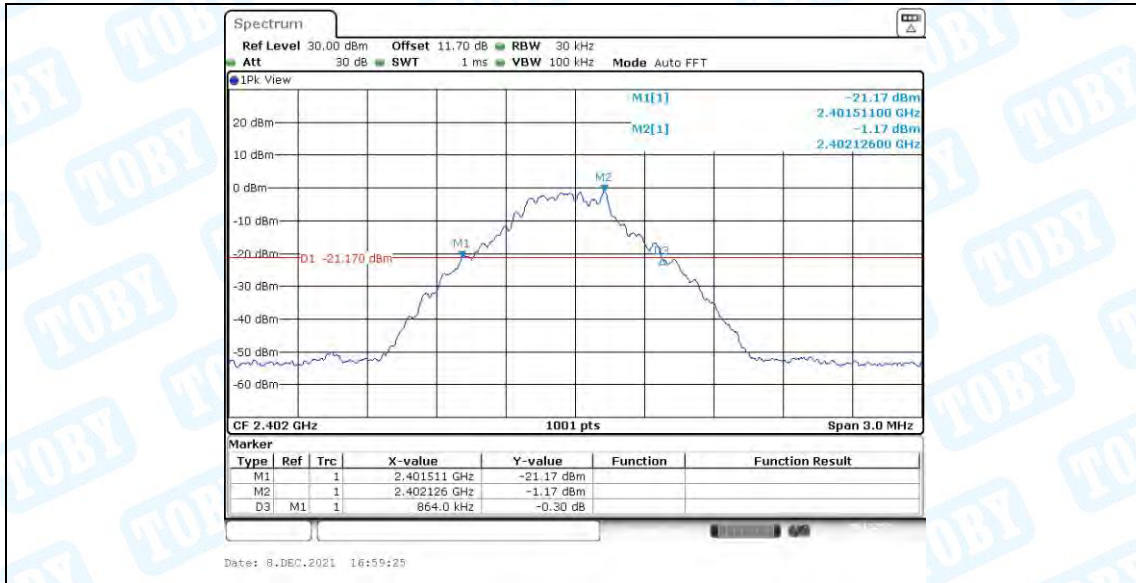
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1. 20dB Emission Bandwidth

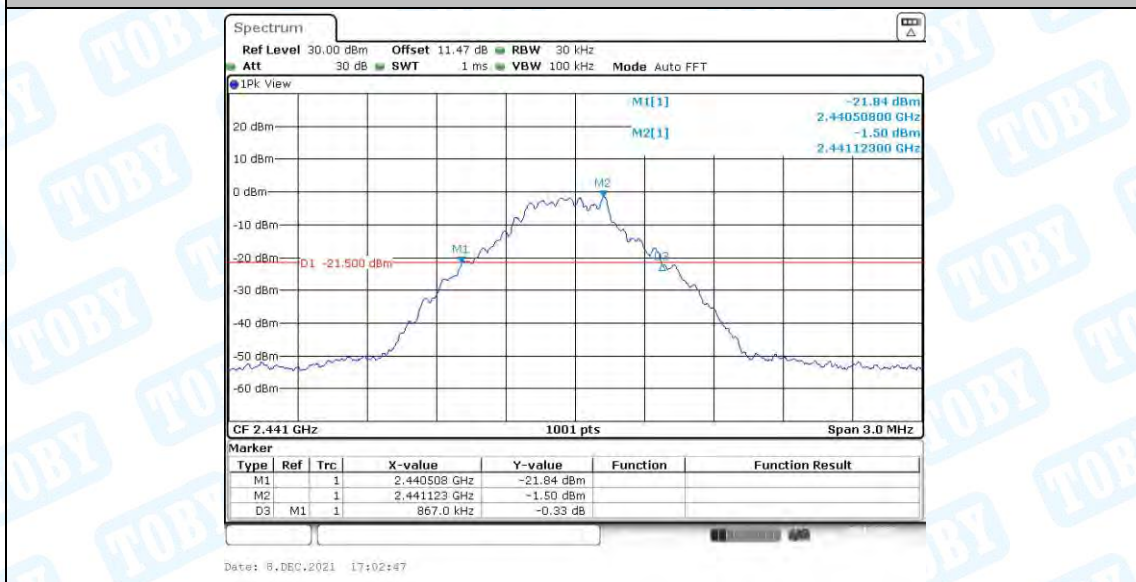
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	---	PASS
		2441	0.87	---	PASS
		2480	0.86	---	PASS
2DH5	Ant1	2402	1.26	---	PASS
		2441	1.27	---	PASS
		2480	1.27	---	PASS
3DH5	Ant1	2402	1.25	---	PASS
		2441	1.26	---	PASS
		2480	1.26	---	PASS

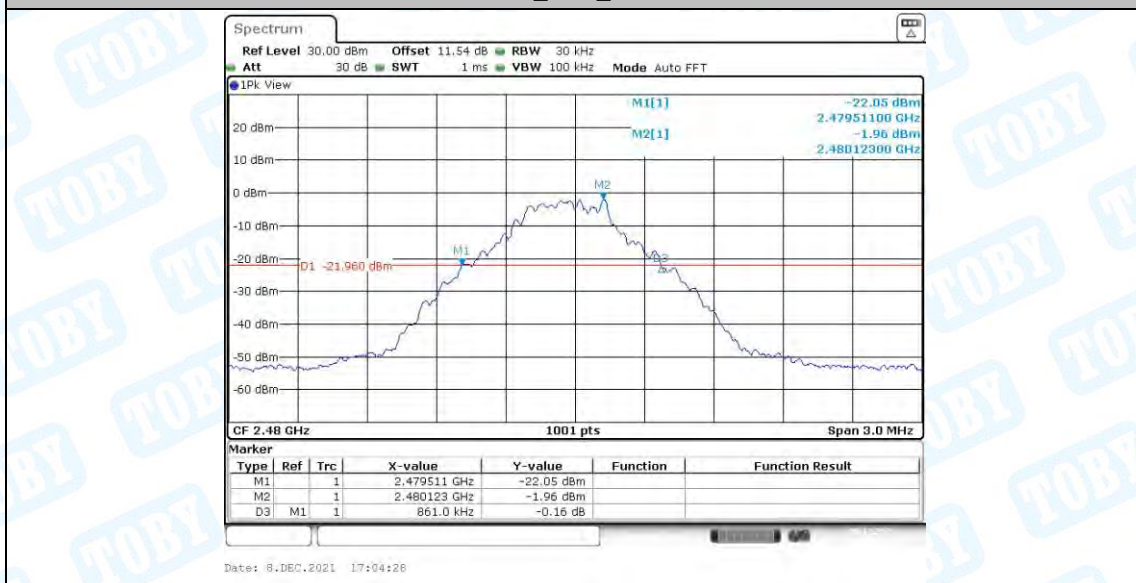
1.2. Test Graphs



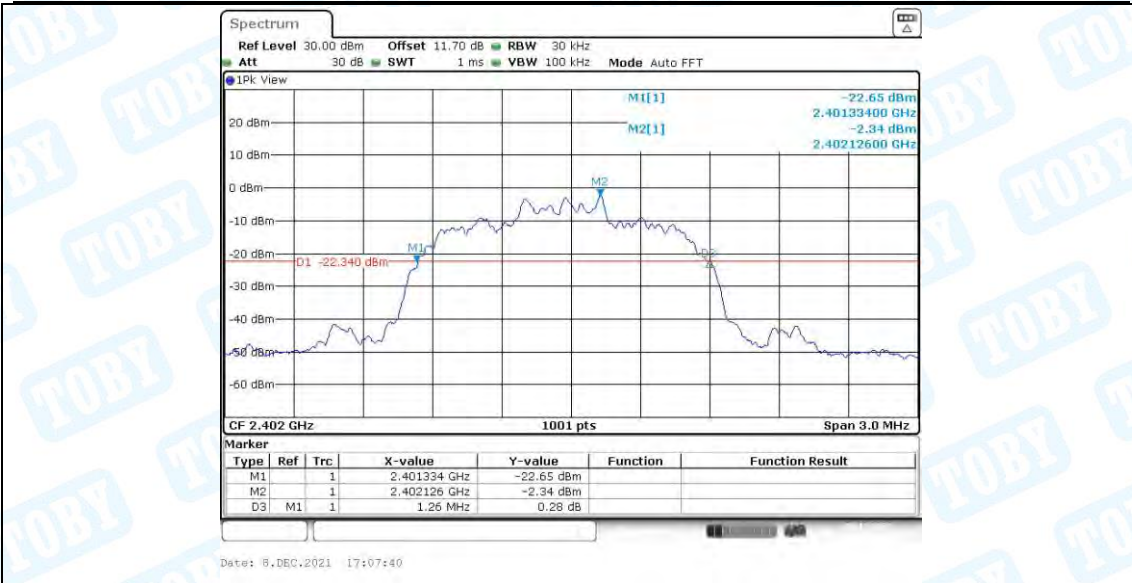
DH5_Ant1_2402



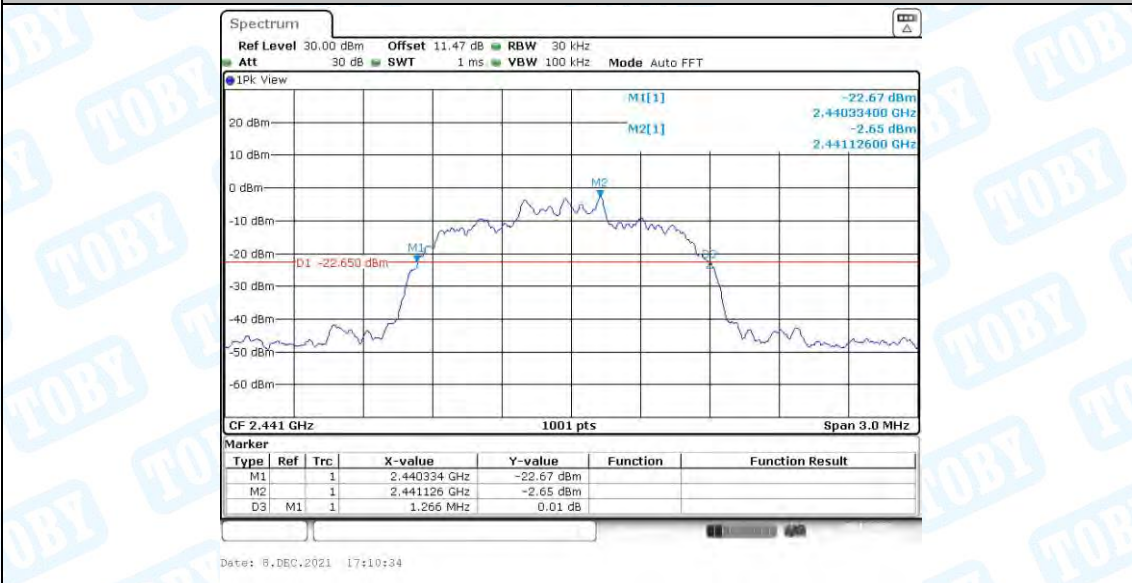
DH5_Ant1_2441



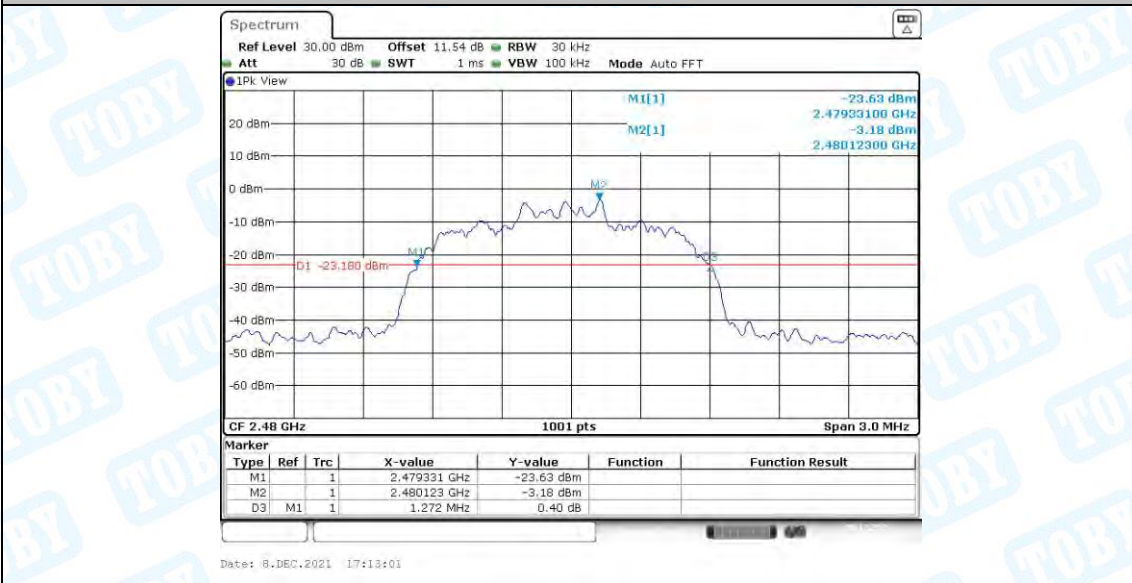
DH5_Ant1_2480



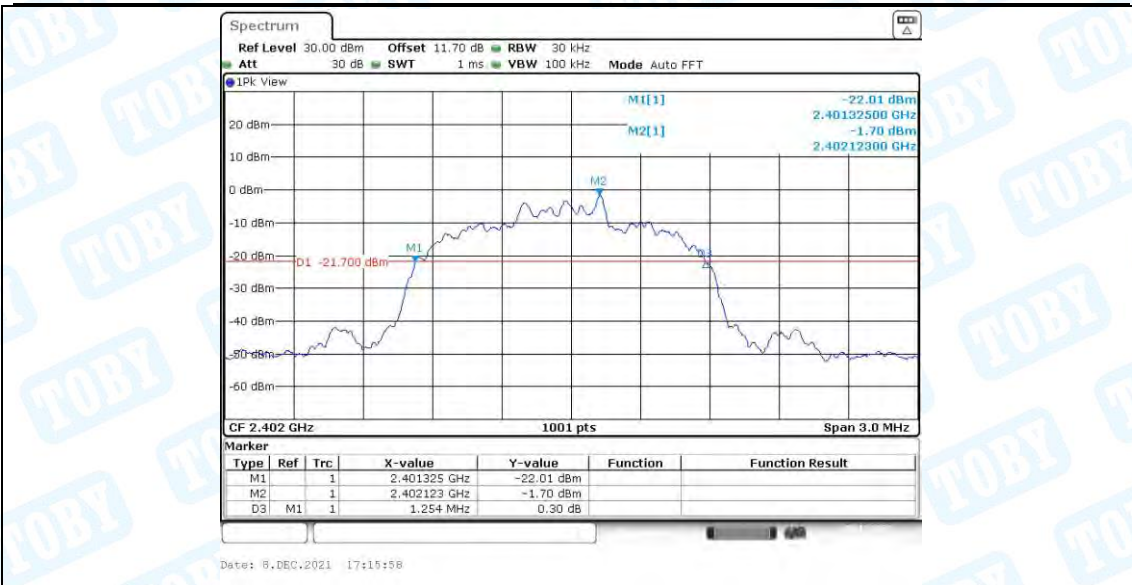
2DH5_Ant1_2402



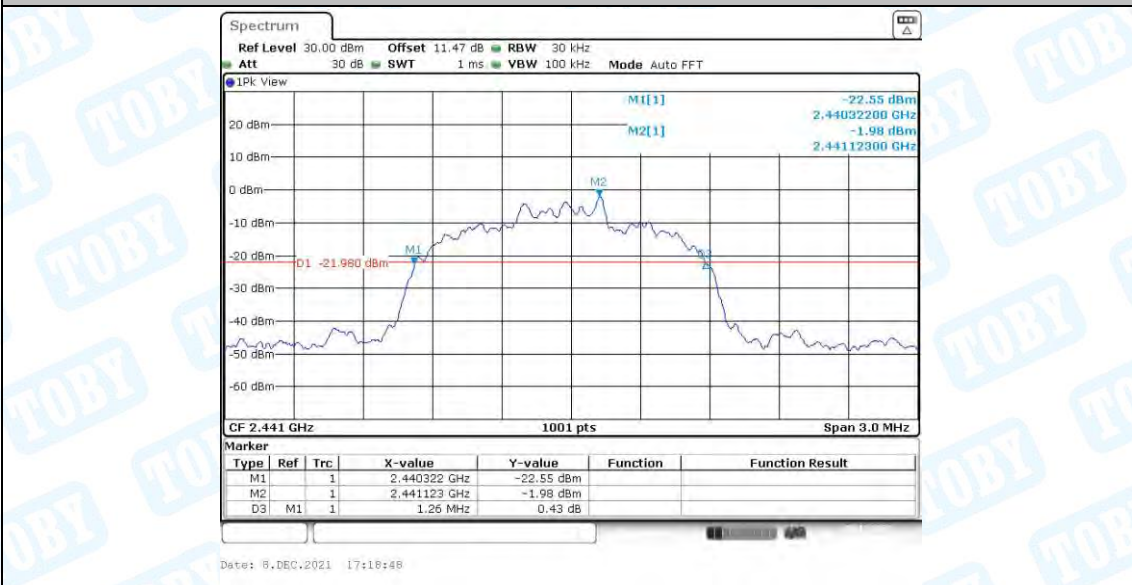
2DH5_Ant1_2441



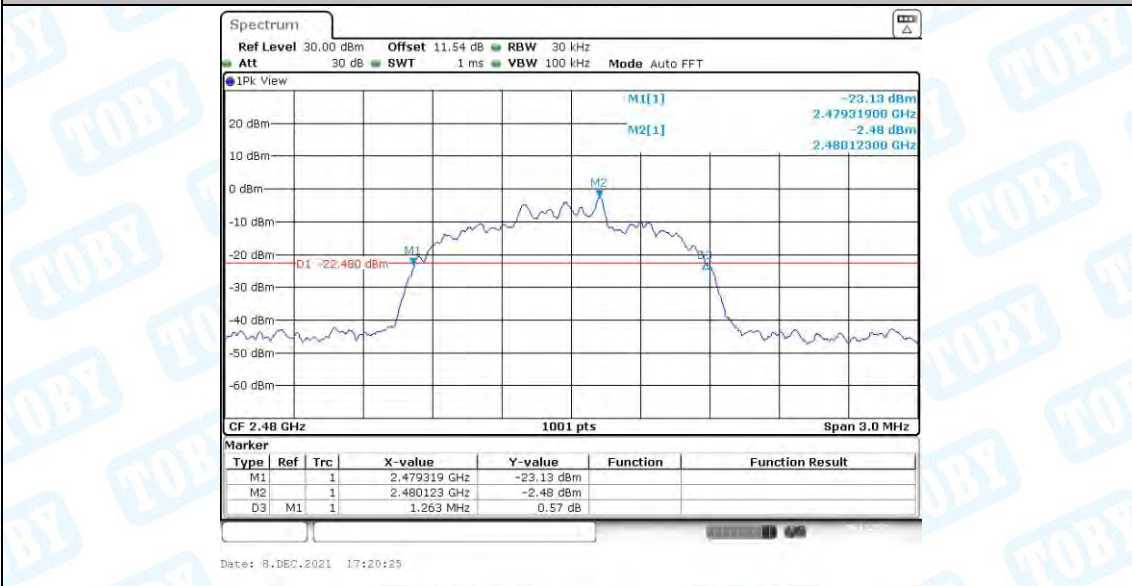
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



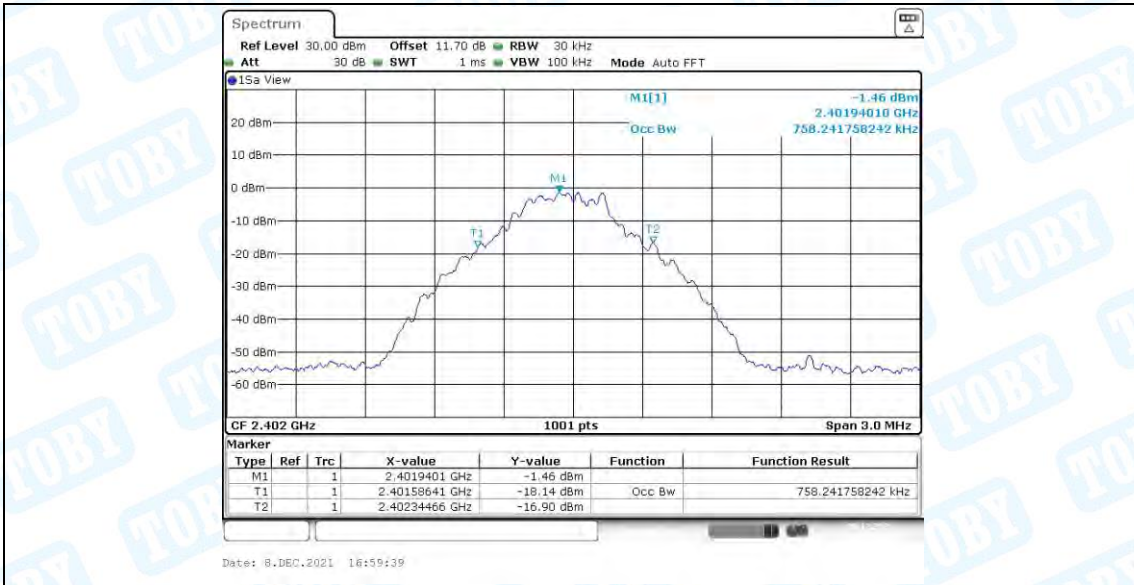
3DH5_Ant1_2480

2. Occupied Channel Bandwidth

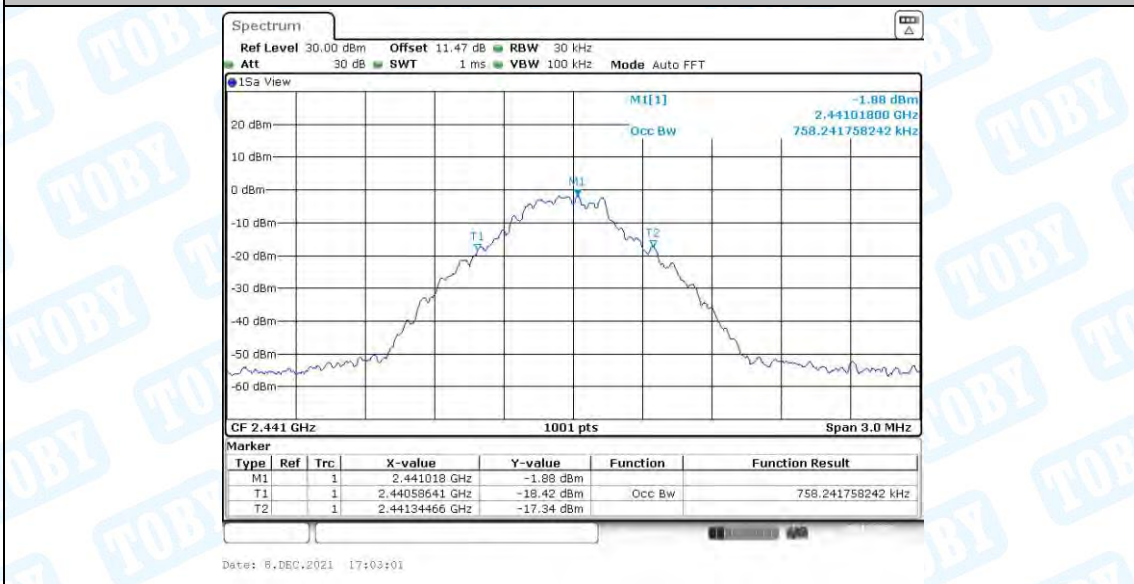
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.758	2401.586	2402.345	---	PASS
		2441	0.758	2440.586	2441.345	---	PASS
		2480	0.755	2479.586	2480.342	---	PASS
2DH5	Ant1	2402	1.145	2401.386	2402.530	---	PASS
		2441	1.151	2440.383	2441.533	---	PASS
		2480	1.151	2479.383	2480.533	---	PASS
3DH5	Ant1	2402	1.151	2401.389	2402.539	---	PASS
		2441	1.148	2440.389	2441.536	---	PASS
		2480	1.154	2479.386	2480.539	---	PASS

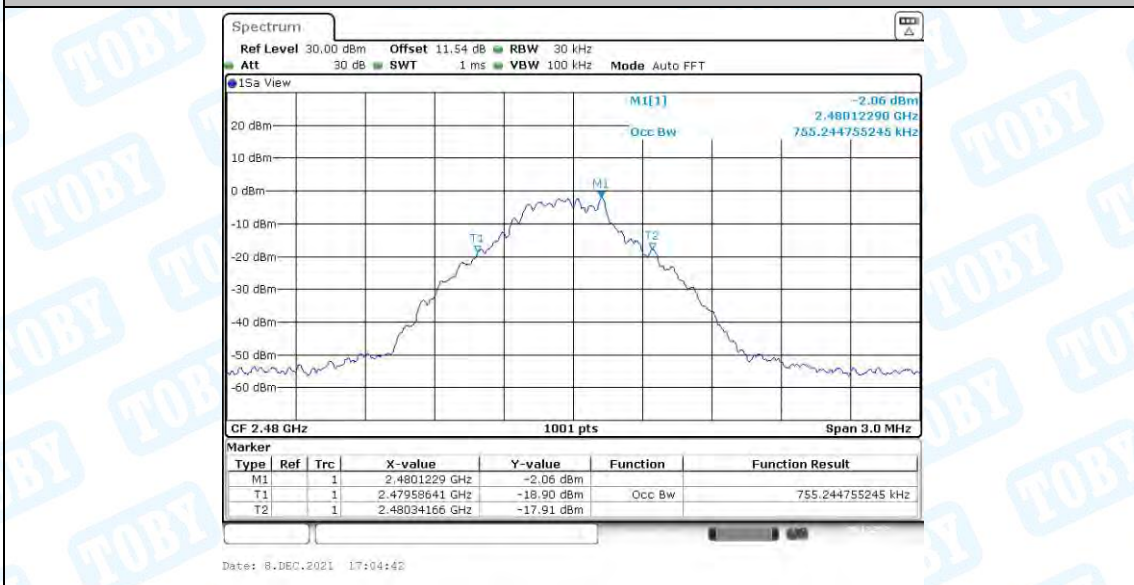
2.2. Test Graphs



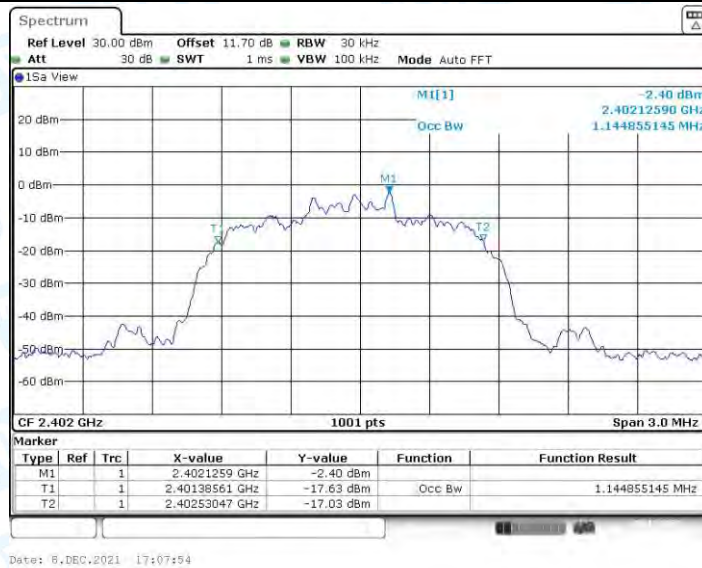
DH5_Ant1_2402



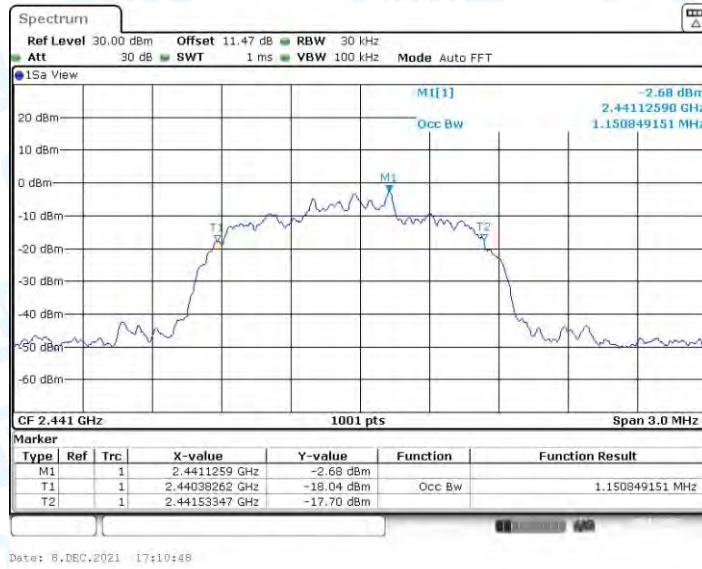
DH5_Ant1_2441



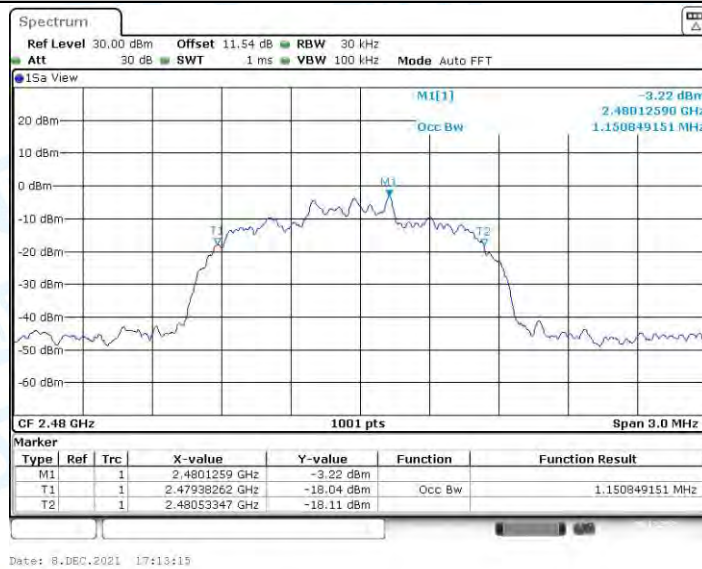
DH5_Ant1_2480



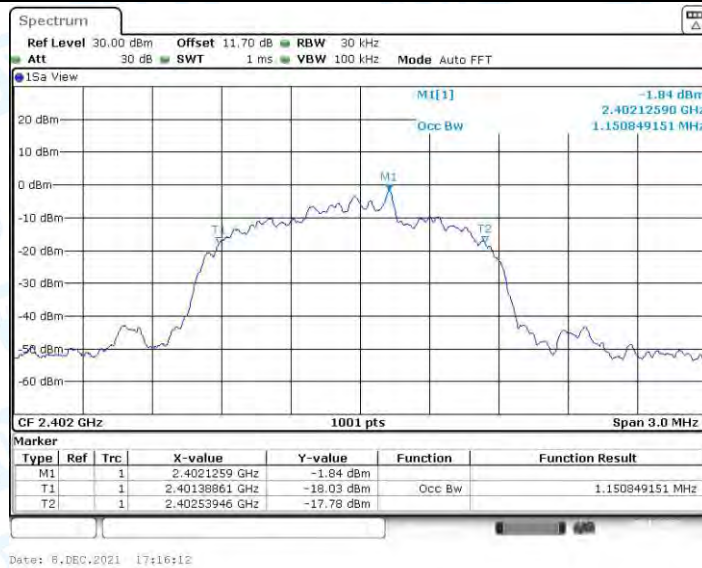
2DH5_Ant1_2402



2DH5_Ant1_2441



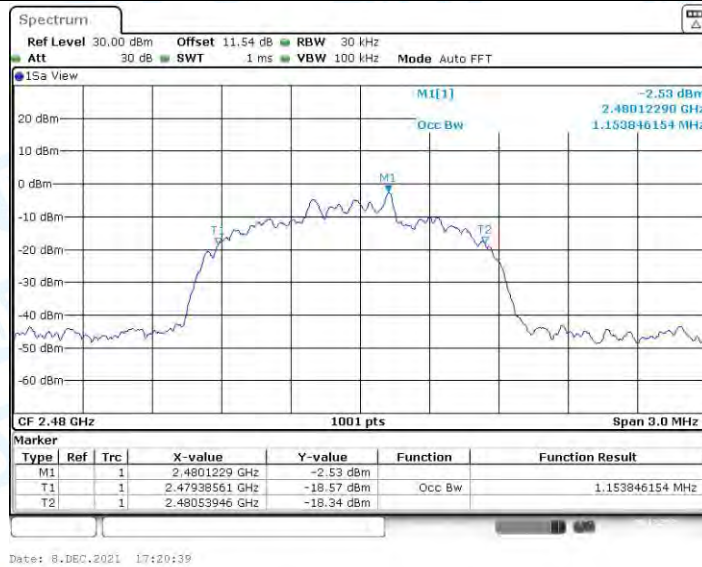
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



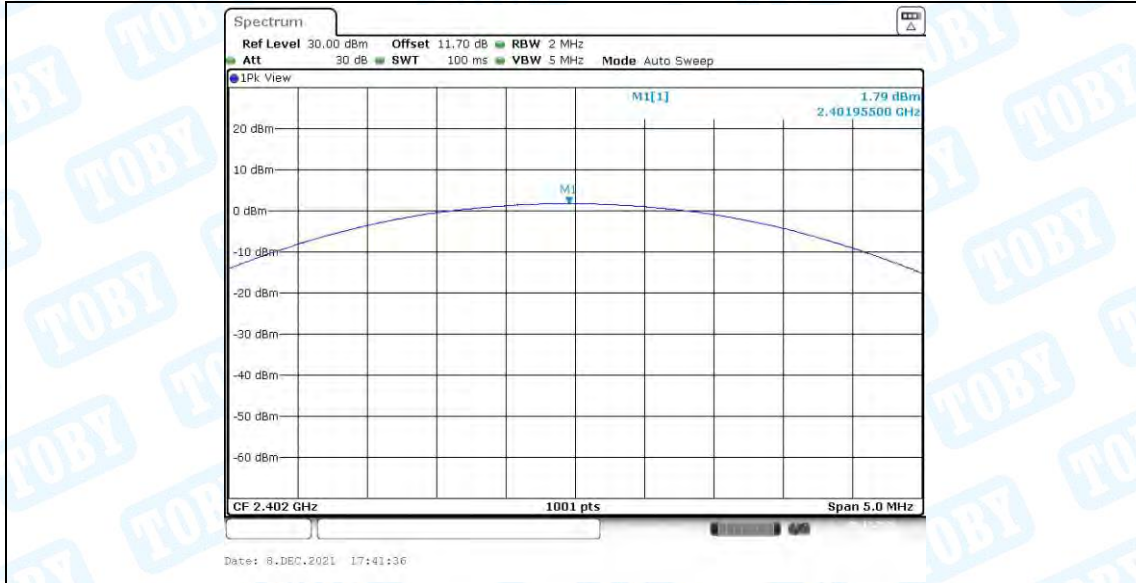
3DH5_Ant1_2480

3. Maximum conducted output power

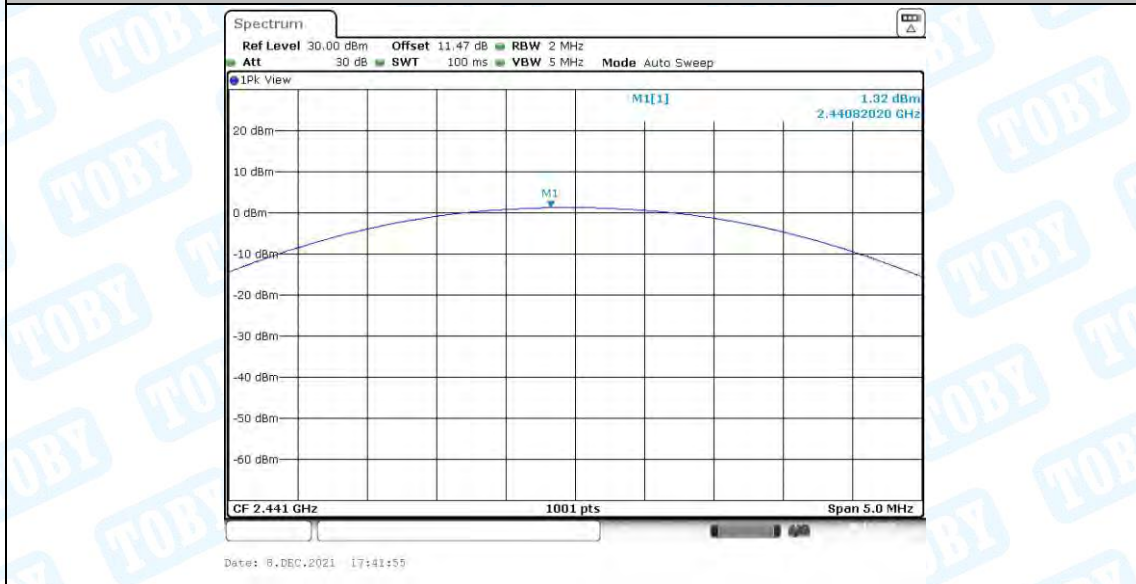
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.79	≤20.97	PASS
		2441	1.32	≤20.97	PASS
		2480	0.71	≤20.97	PASS
2DH5	Ant1	2402	0.92	≤20.97	PASS
		2441	0.61	≤20.97	PASS
		2480	0.13	≤20.97	PASS
3DH5	Ant1	2402	0.9	≤20.97	PASS
		2441	0.58	≤20.97	PASS
		2480	0.10	≤20.97	PASS

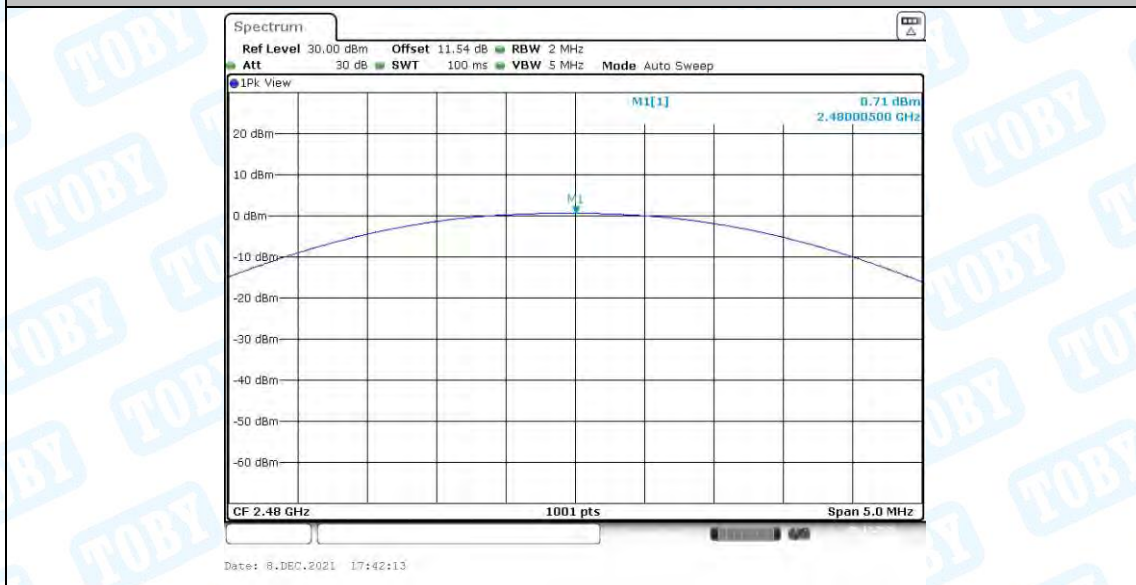
3.2. Test Graphs



DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



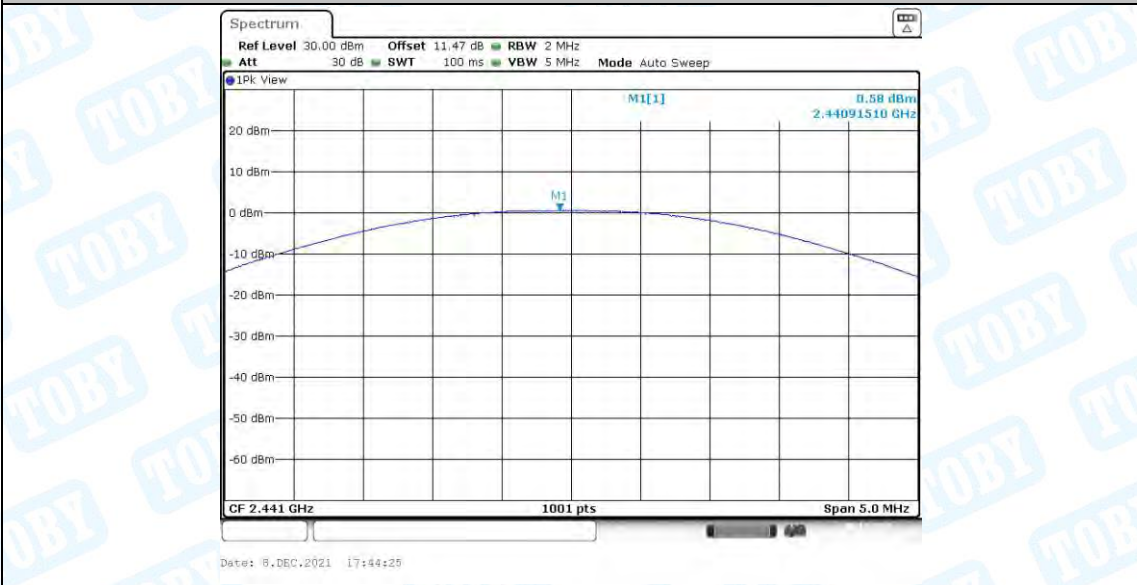
2DH5_Ant1_2441



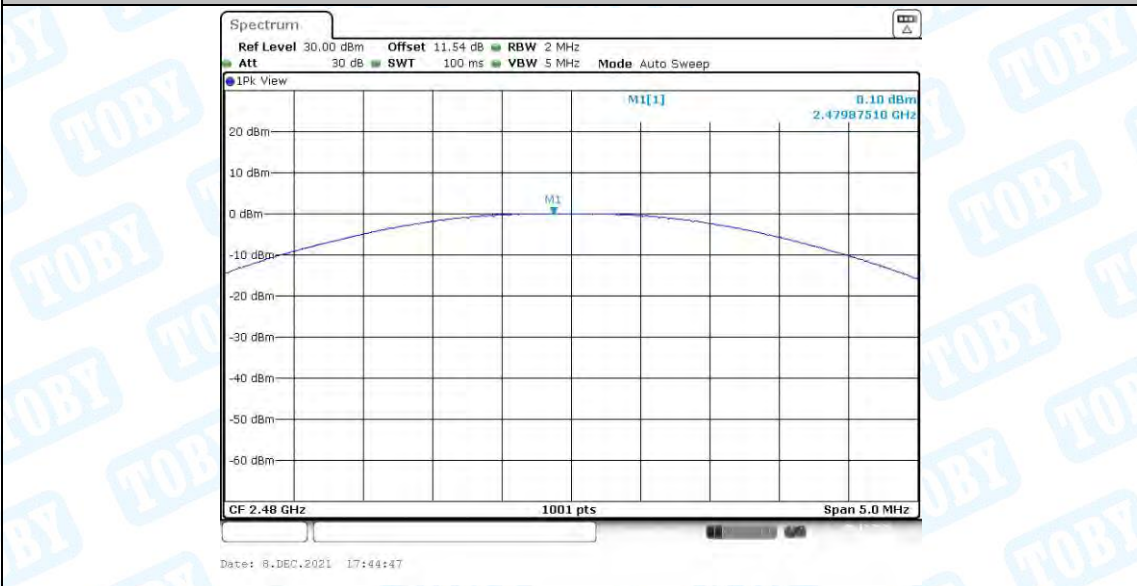
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



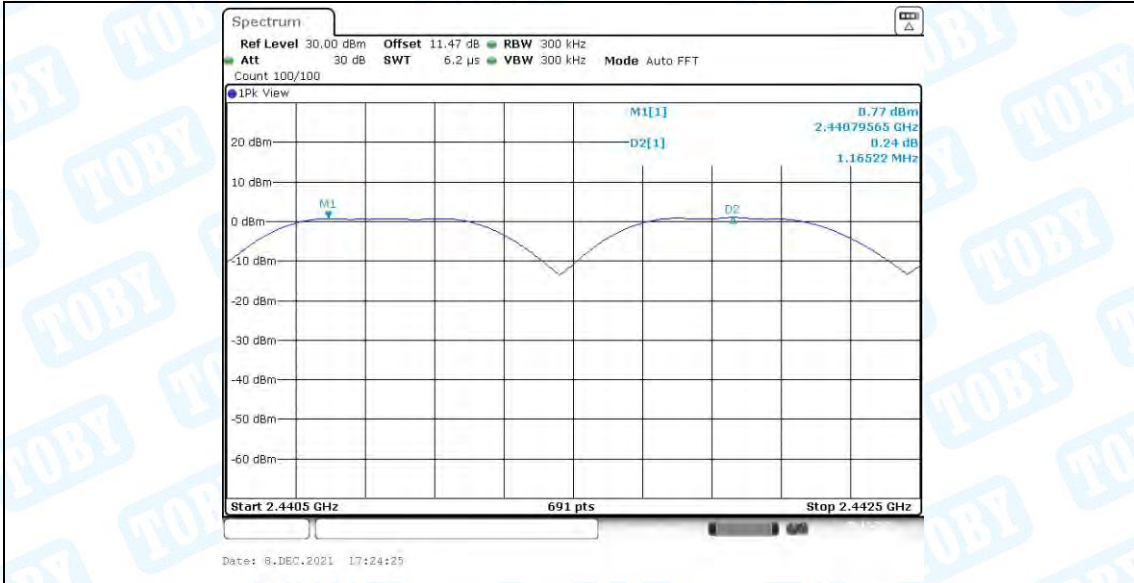
3DH5_Ant1_2480

4. Carrier frequency separation

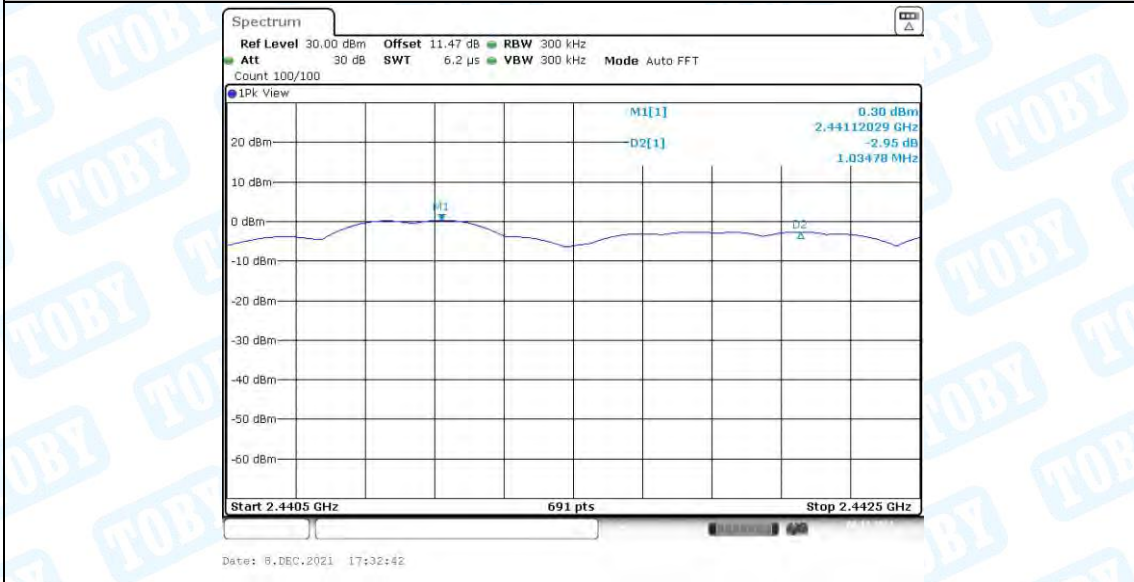
4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.165	≥0.870	PASS
2DH5	Ant1	Hop	1.035	≥0.847	PASS
3DH5	Ant1	Hop	0.968	≥0.840	PASS

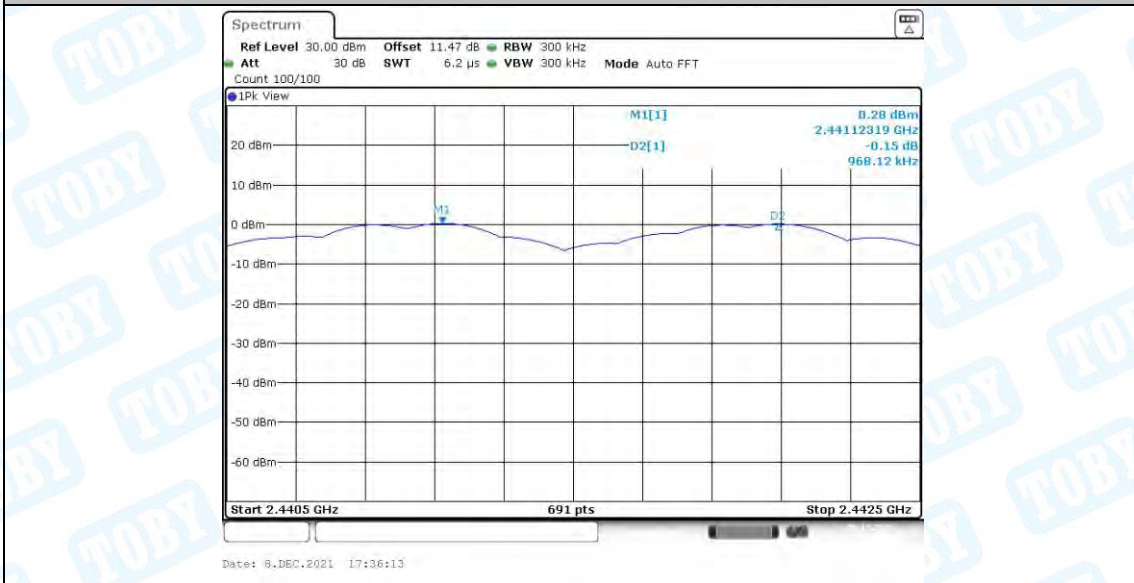
4.2. Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



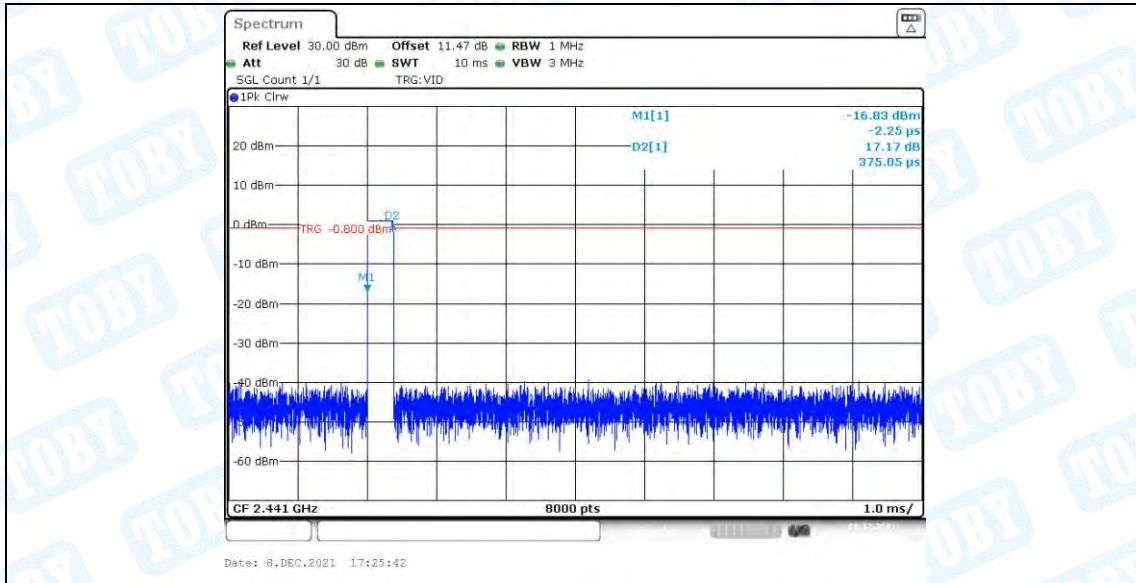
3DH5_Ant1_Hop

5. Time of occupancy

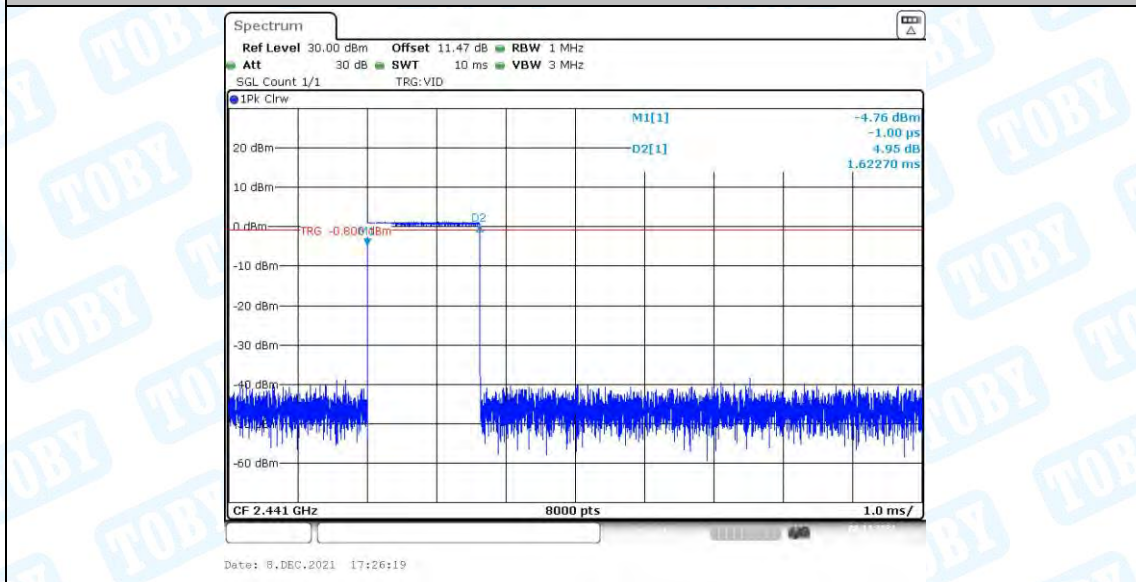
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.62	160	0.26	≤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	1.63	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS

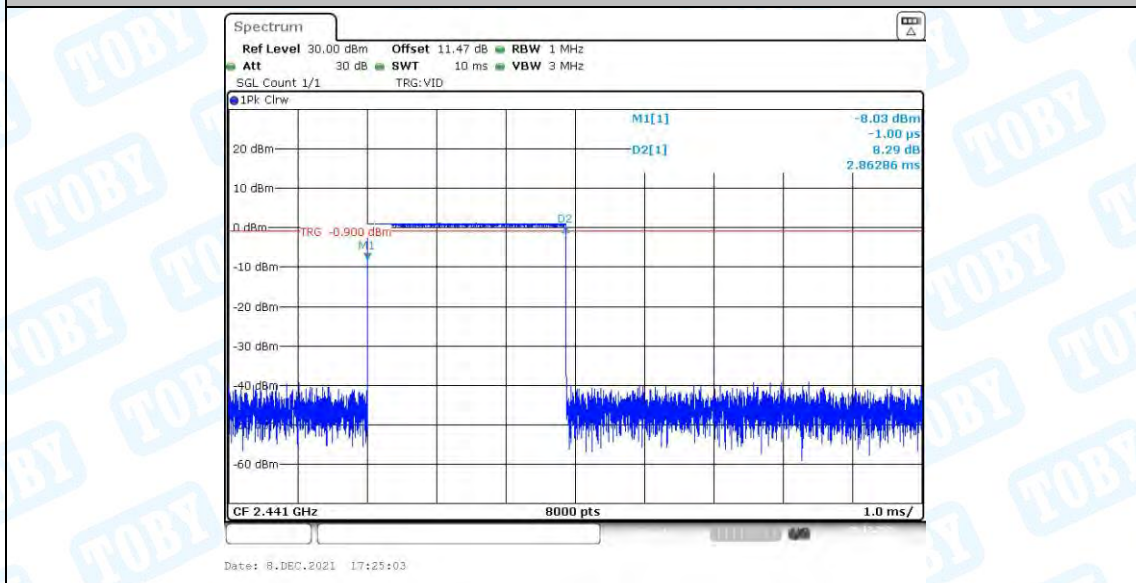
5.2. Test Graphs



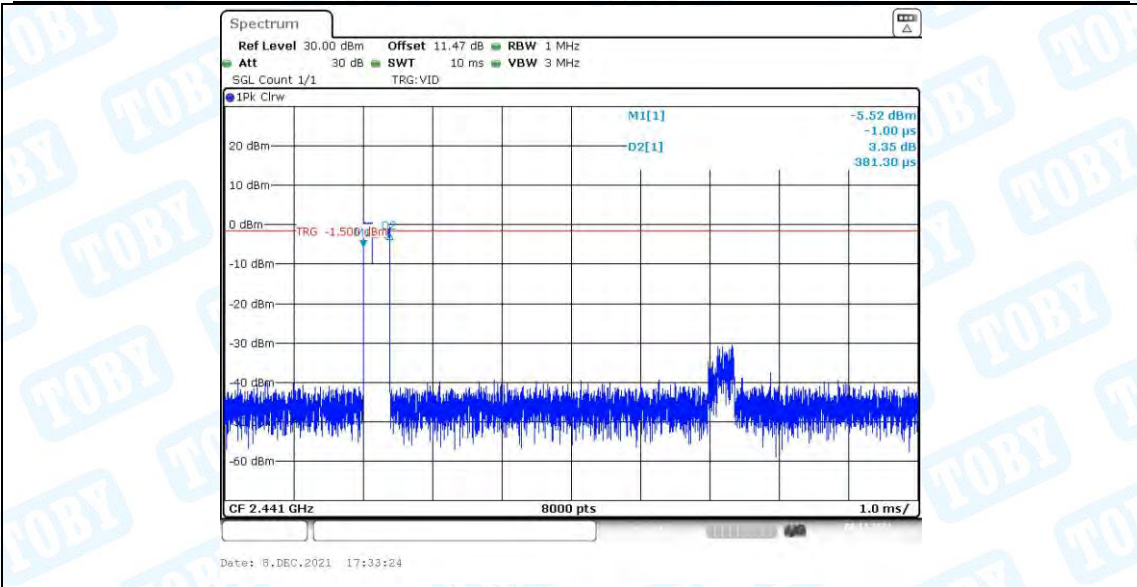
DH1_Ant1_Hop



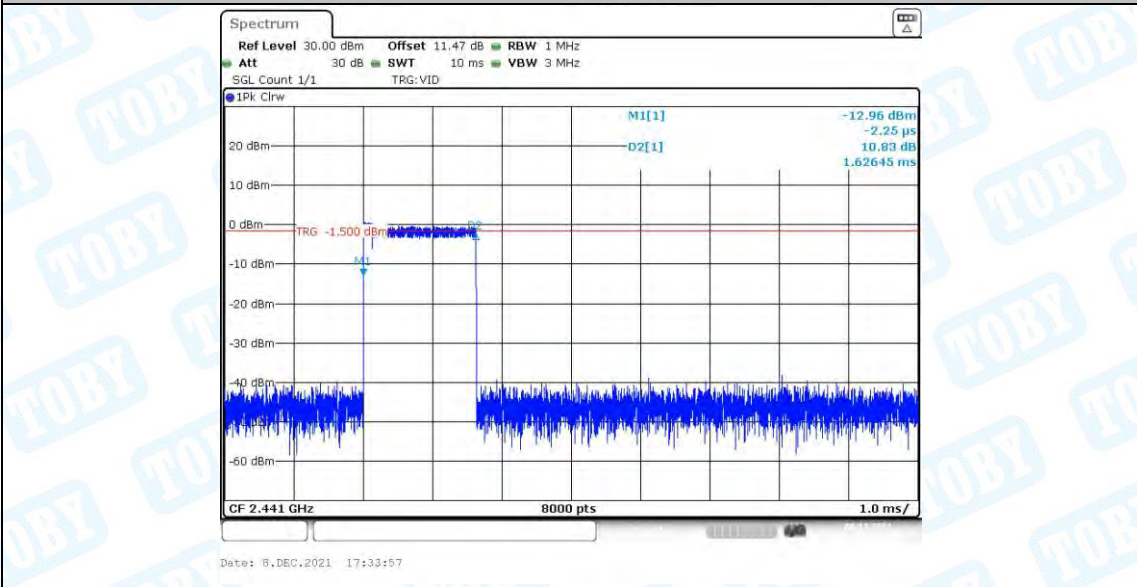
DH3_Ant1_Hop



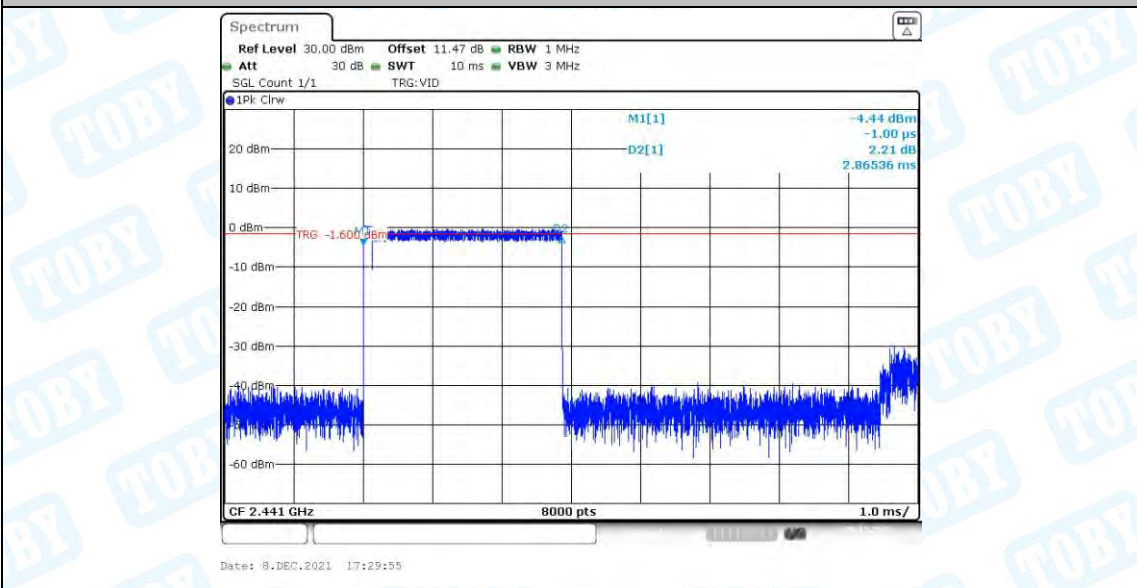
DH5_Ant1_Hop



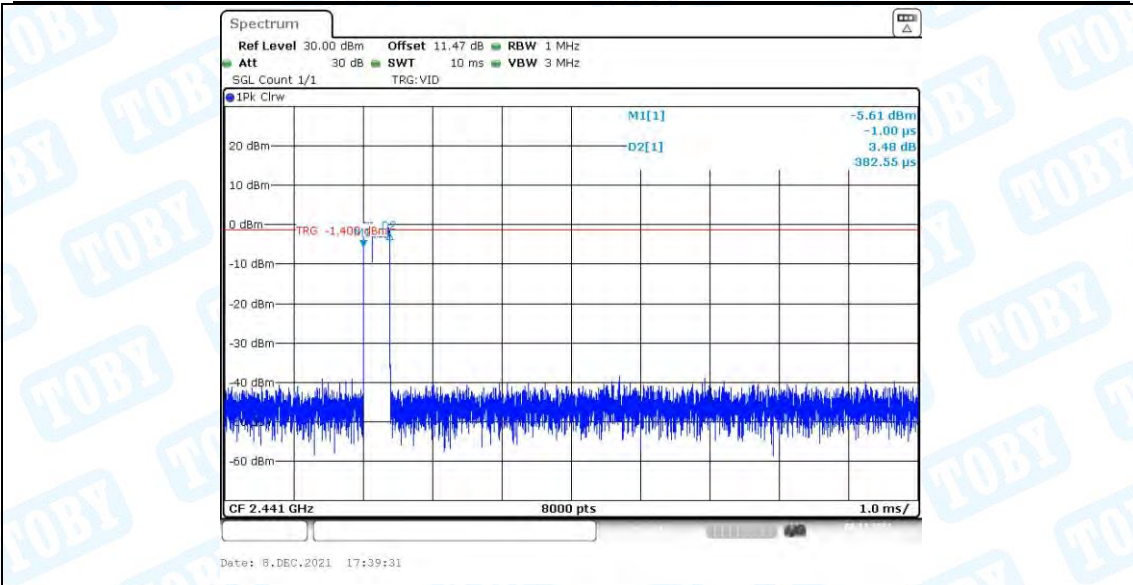
2DH1_Ant1_Hop



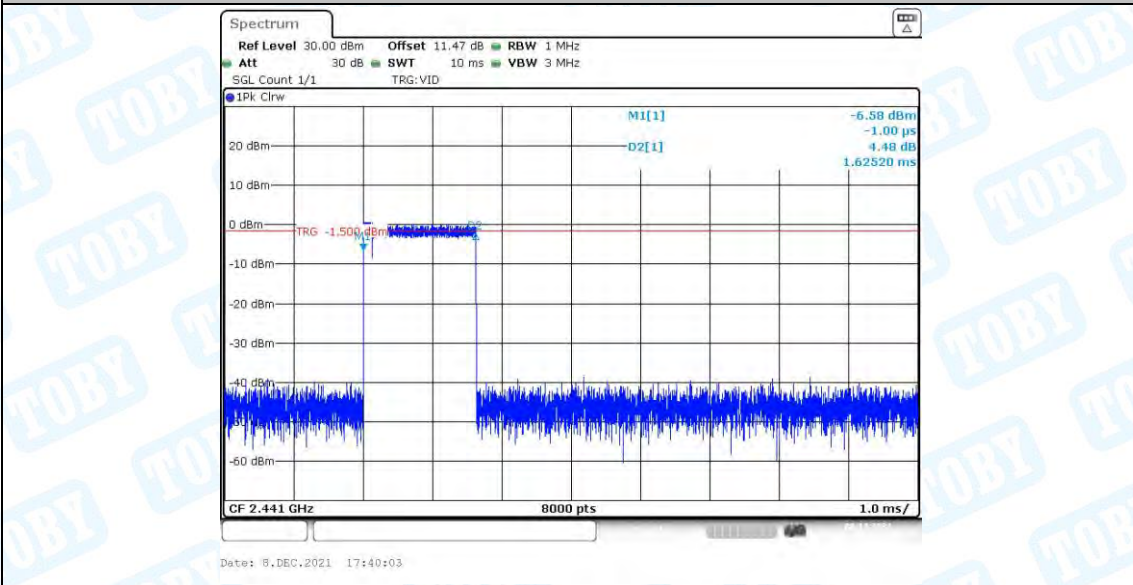
2DH3_Ant1_Hop



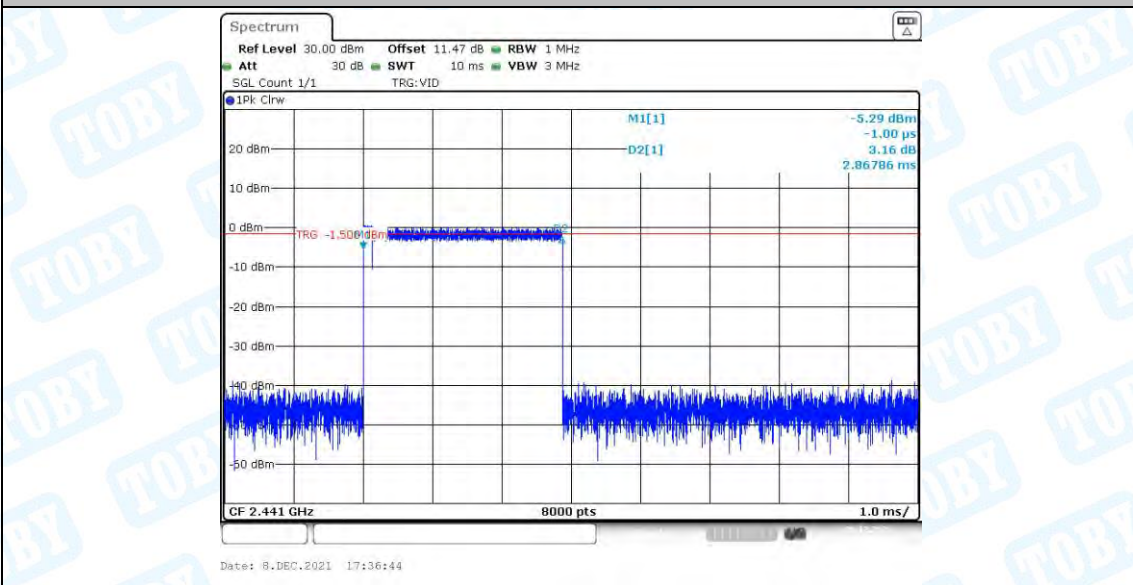
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



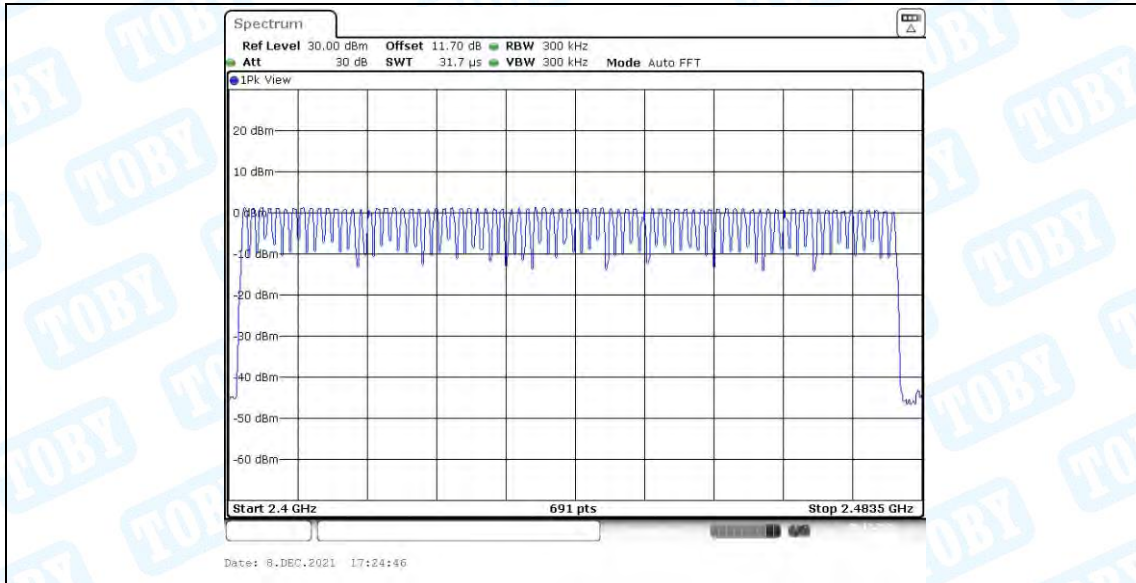
3DH5_Ant1_Hop

6. Number of hopping channels

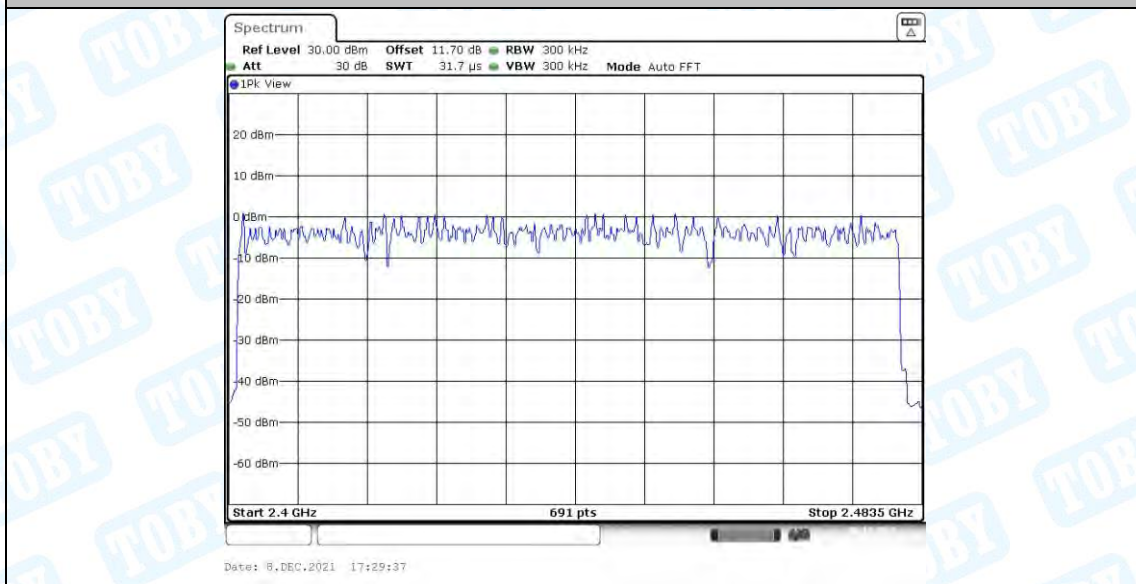
6.1. Test Result

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

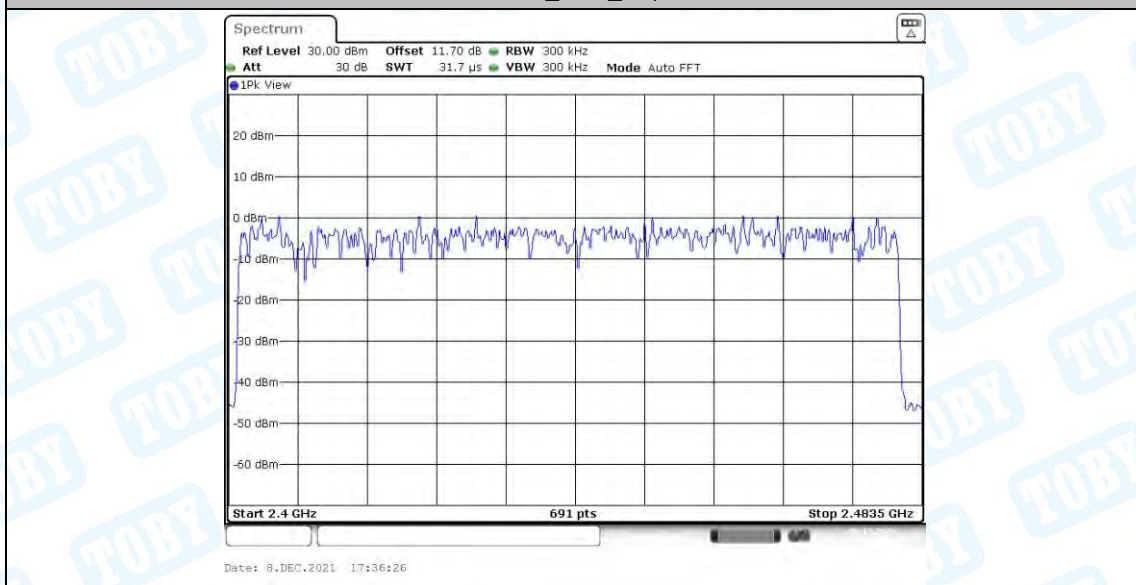
6.2. Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



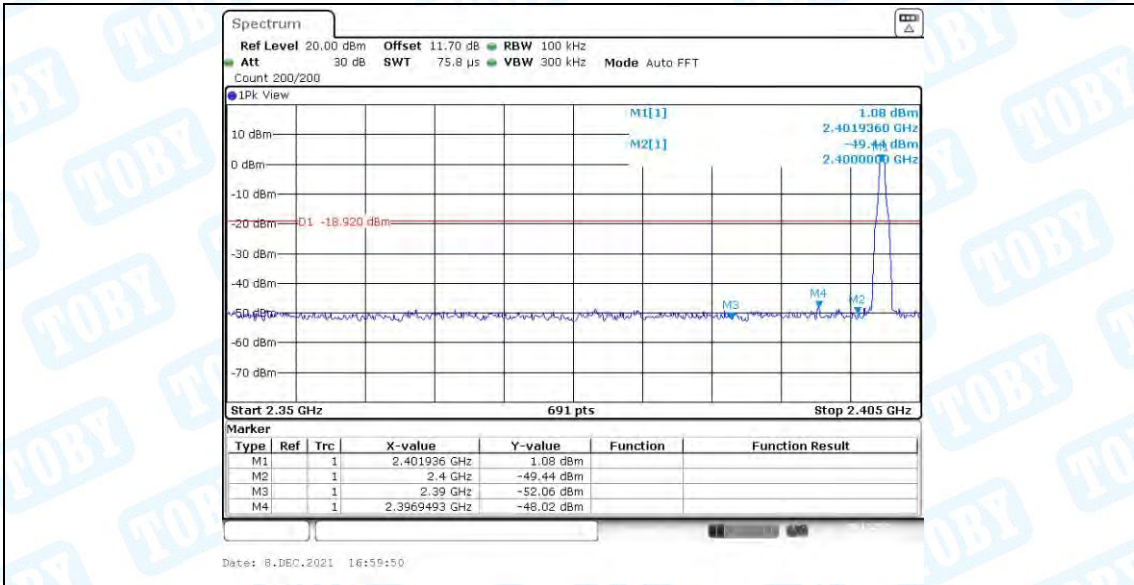
3DH5_Ant1_Hop

7. Band edge measurements

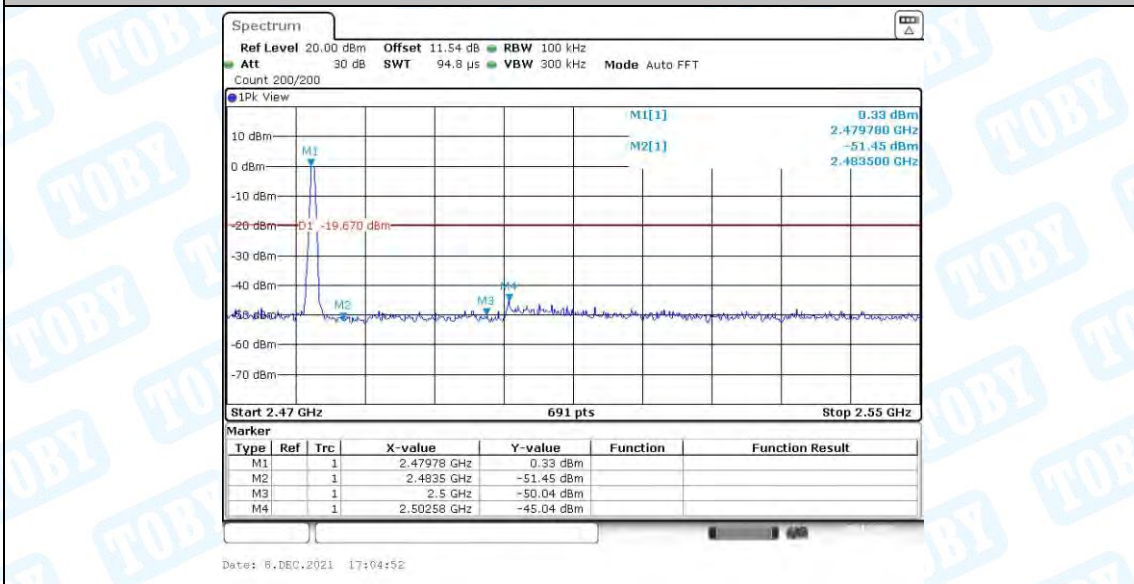
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.08	-48.02	≤-18.92	PASS
		High	2480	0.33	-45.04	≤-19.67	PASS
		Low	Hop_2402	0.83	-47.68	≤-19.17	PASS
		High	Hop_2480	0.03	-47	≤-19.97	PASS
2DH5	Ant1	Low	2402	0.09	-48.72	≤-19.91	PASS
		High	2480	-0.24	-46.62	≤-20.24	PASS
		Low	Hop_2402	-4.30	-47.65	≤-24.3	PASS
		High	Hop_2480	-0.35	-45.13	≤-20.35	PASS
3DH5	Ant1	Low	2402	-0.17	-47.97	≤-20.17	PASS
		High	2480	-0.99	-46.5	≤-20.99	PASS
		Low	Hop_2402	-3.64	-48.45	≤-23.64	PASS
		High	Hop_2480	-2.11	-46.1	≤-22.11	PASS

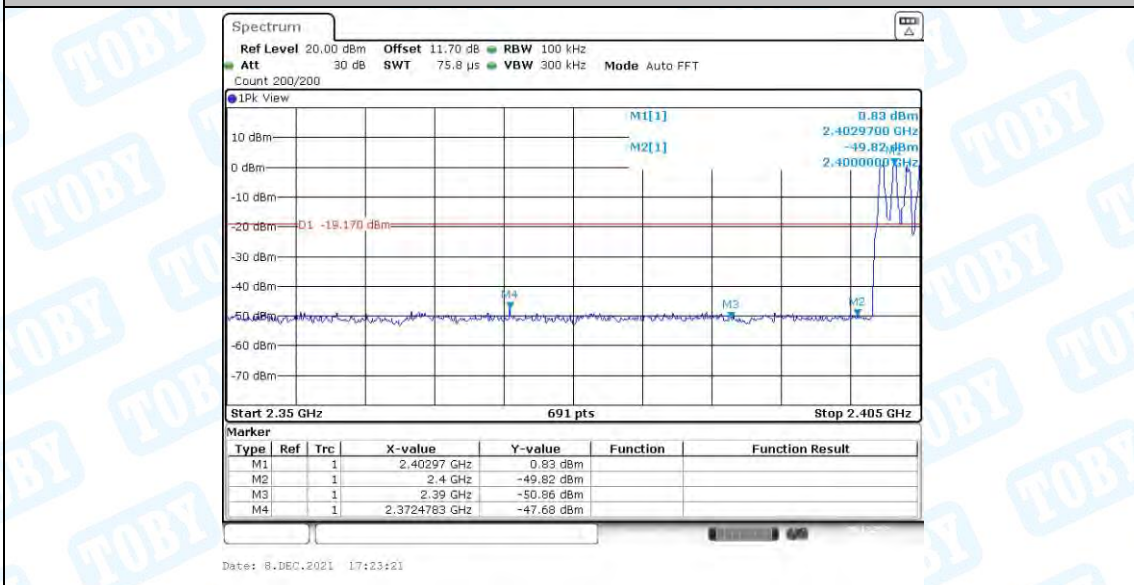
7.2. Test Graphs



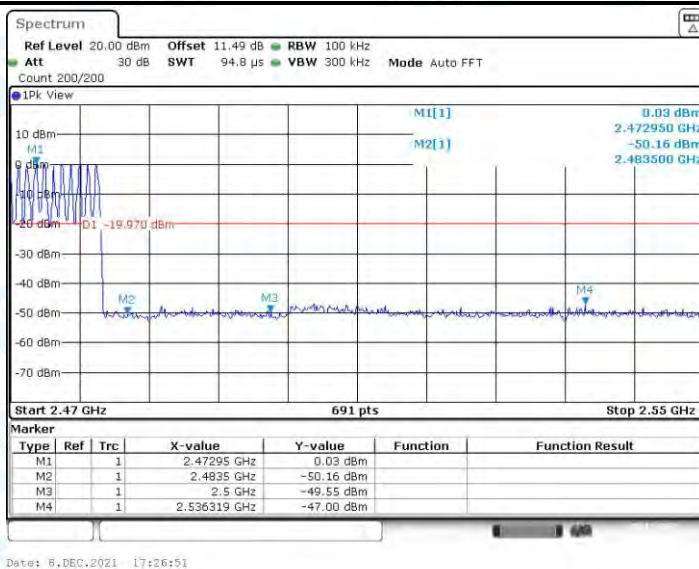
DH5_Ant1_Low_2402



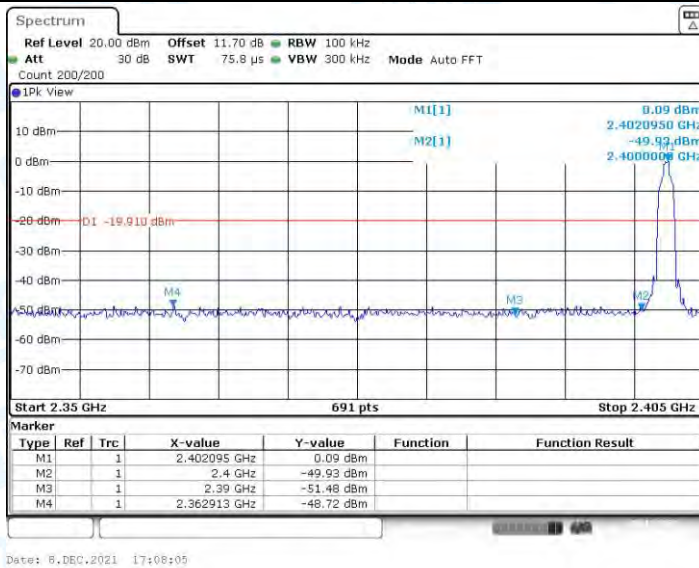
DH5_Ant1_High_2480



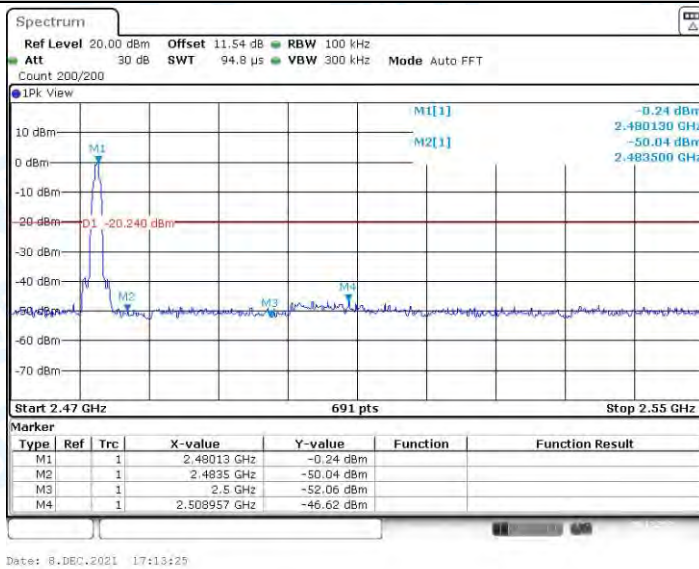
DH5_Ant1_Low_Hop_2402



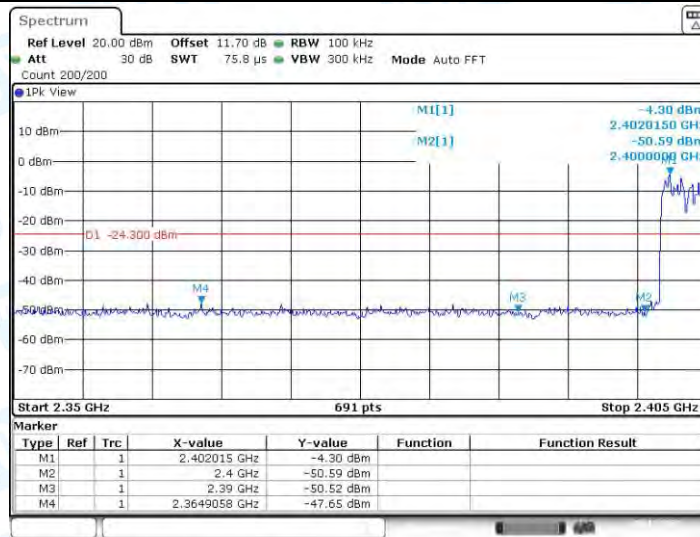
DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

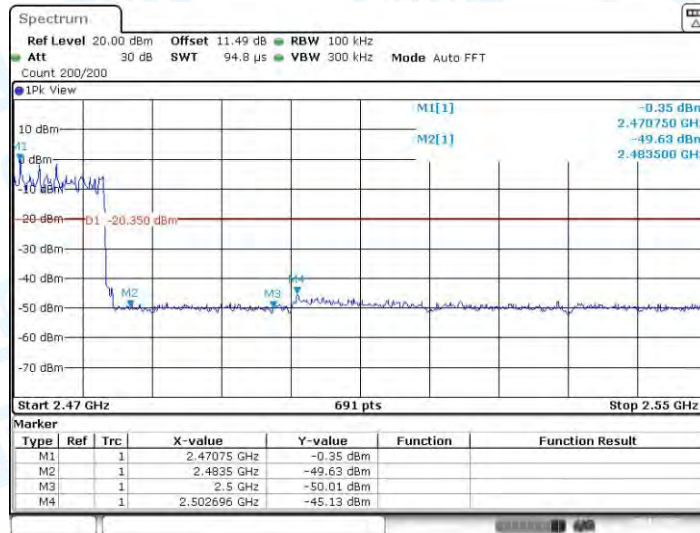


2DH5_Ant1_High_2480



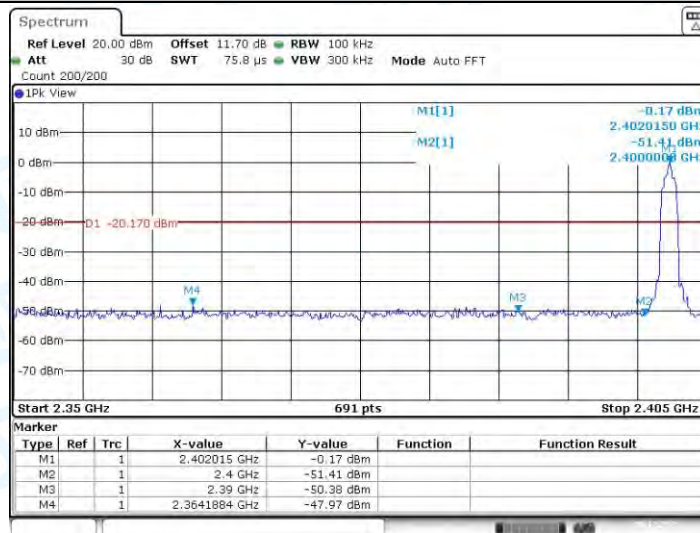
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2DH5_Ant1_Low_Hop_2402



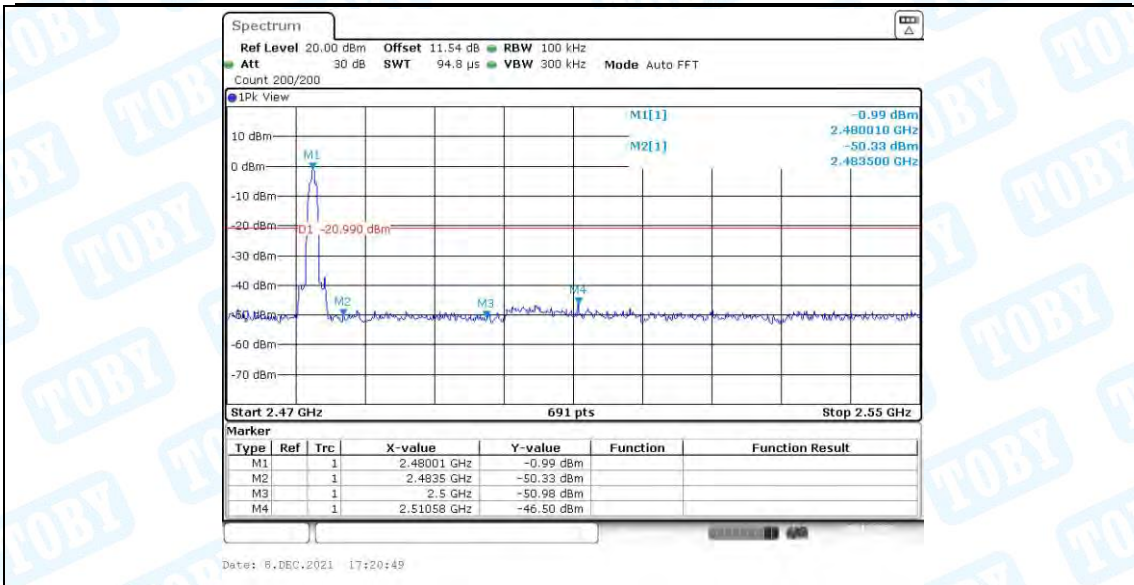
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2DH5_Ant1_High_Hop_2480

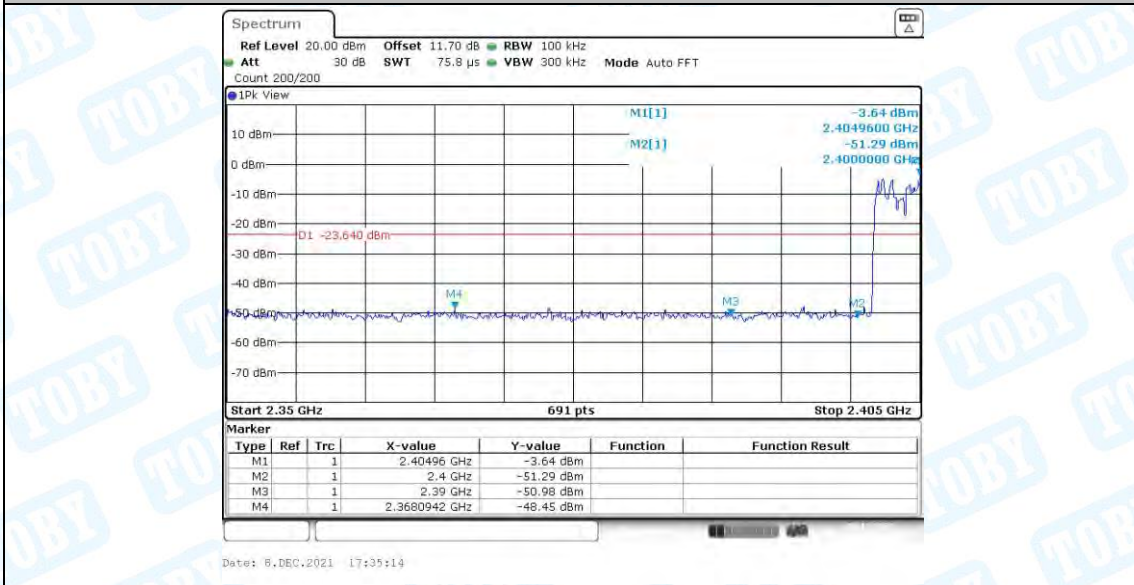


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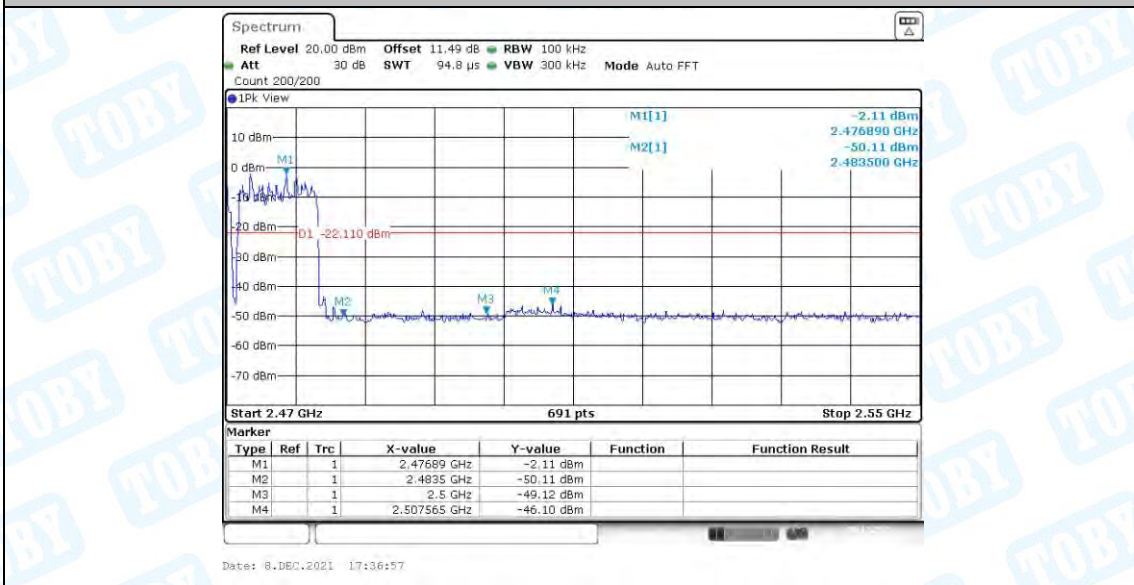
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



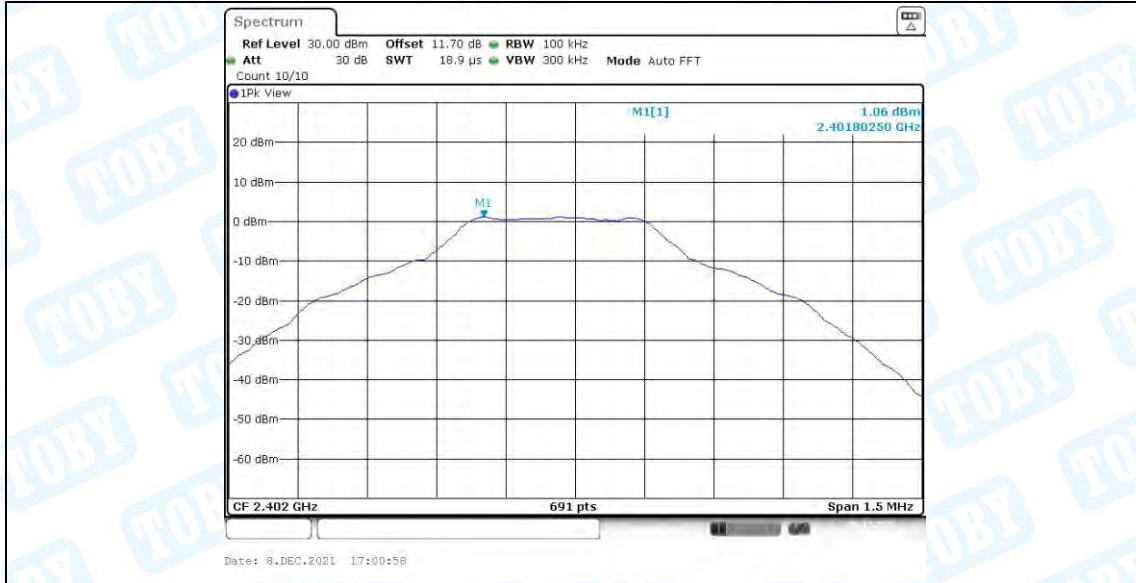
3DH5_Ant1_High_Hop_2480

8. Conducted Spurious Emission

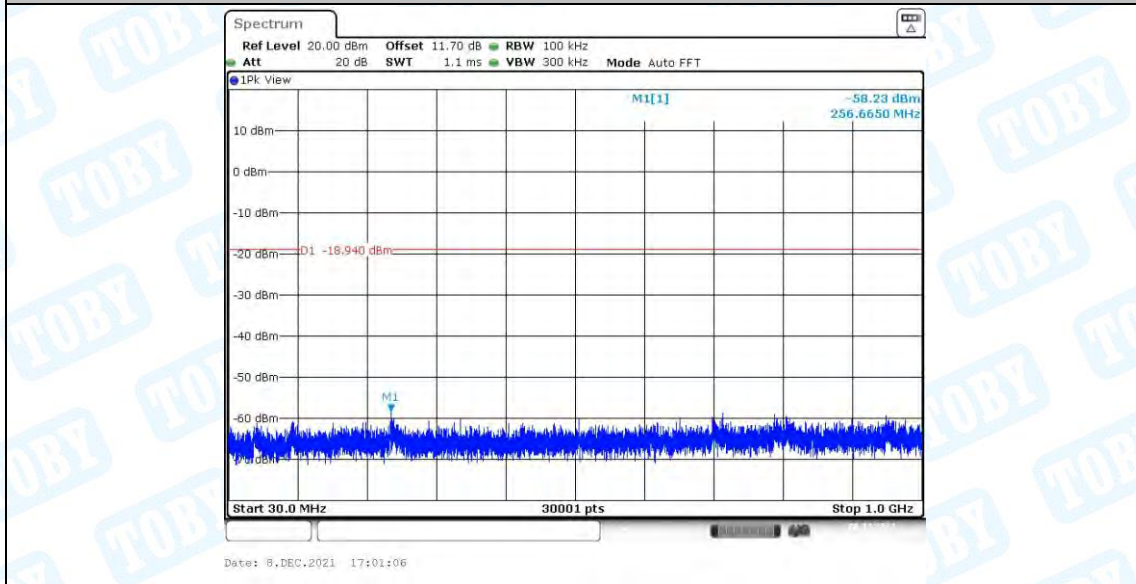
8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-58.23	≤-18.94	PASS
			1000~26500	1.06	-49.25	≤-18.94	PASS
		2441	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-58.57	≤-19.26	PASS
			1000~26500	0.74	-49.78	≤-19.26	PASS
		2480	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-58.58	≤-19.72	PASS
			1000~26500	0.28	-49.67	≤-19.72	PASS
2DH5	Ant1	2402	Reference	0.50	0.50	---	PASS
			30~1000	0.50	-58.42	≤-19.5	PASS
			1000~26500	0.50	-49.36	≤-19.5	PASS
		2441	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-58.09	≤-19.72	PASS
			1000~26500	0.28	-49.01	≤-19.72	PASS
		2480	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-58.19	≤-20.23	PASS
			1000~26500	-0.23	-49.56	≤-20.23	PASS
3DH5	Ant1	2402	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-57.23	≤-19.44	PASS
			1000~26500	0.56	-48.48	≤-19.44	PASS
		2441	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-58.78	≤-19.87	PASS
			1000~26500	0.13	-48.33	≤-19.87	PASS
		2480	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-57.51	≤-20.19	PASS
			1000~26500	-0.19	-49.35	≤-20.19	PASS

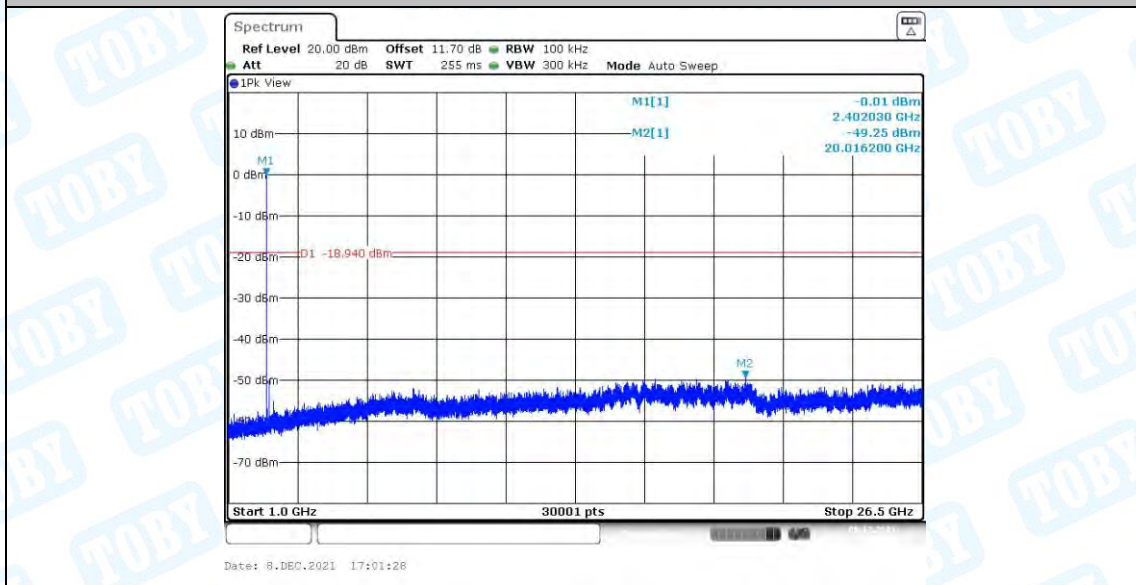
8.2. Test Graphs



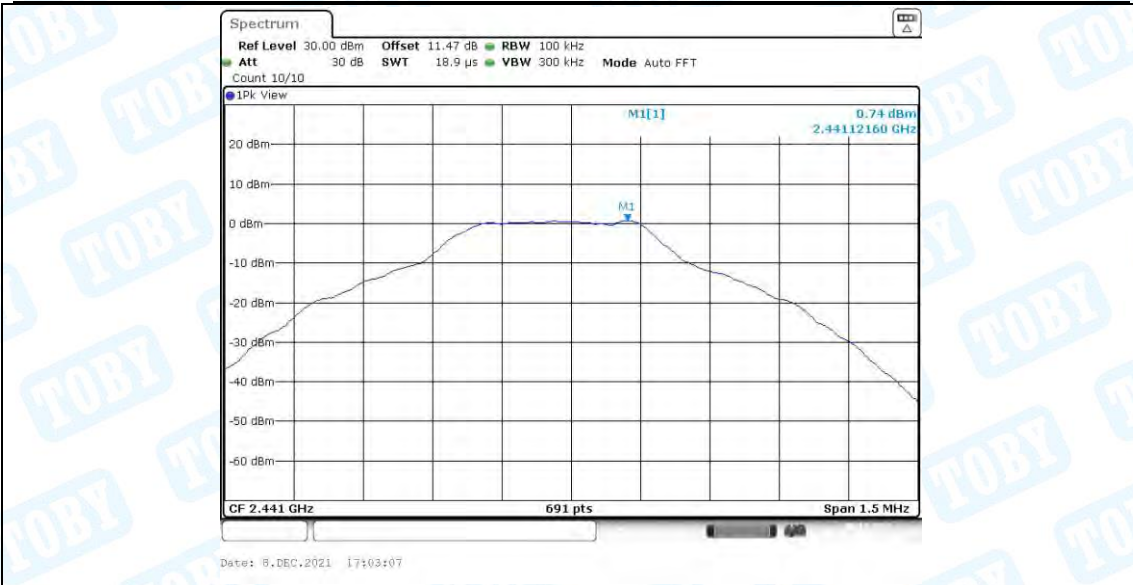
DH5_Ant1_2402_0~Reference



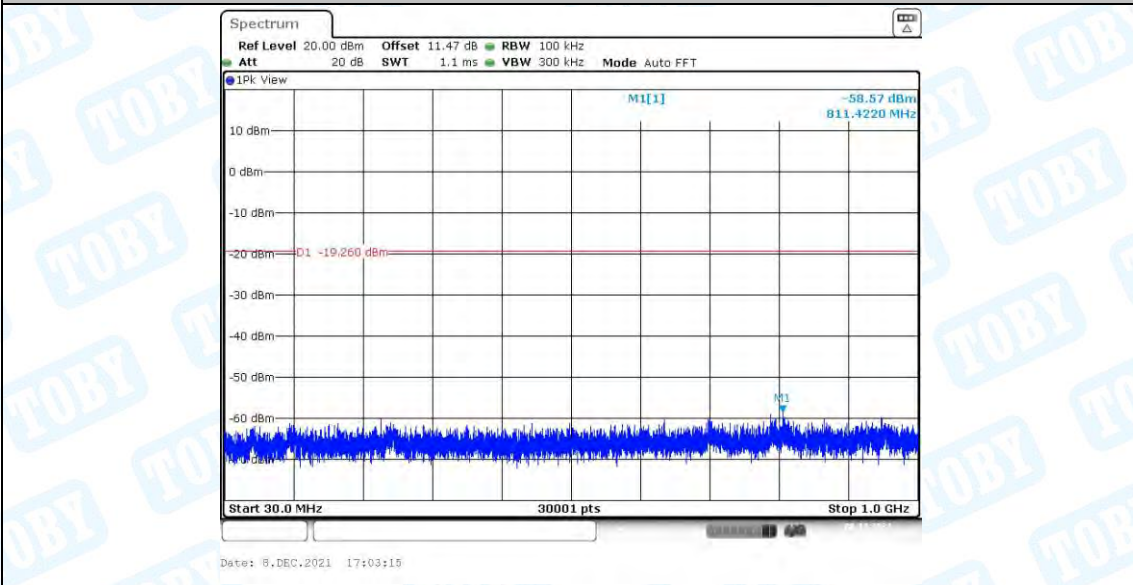
DH5_Ant1_2402_30~1000



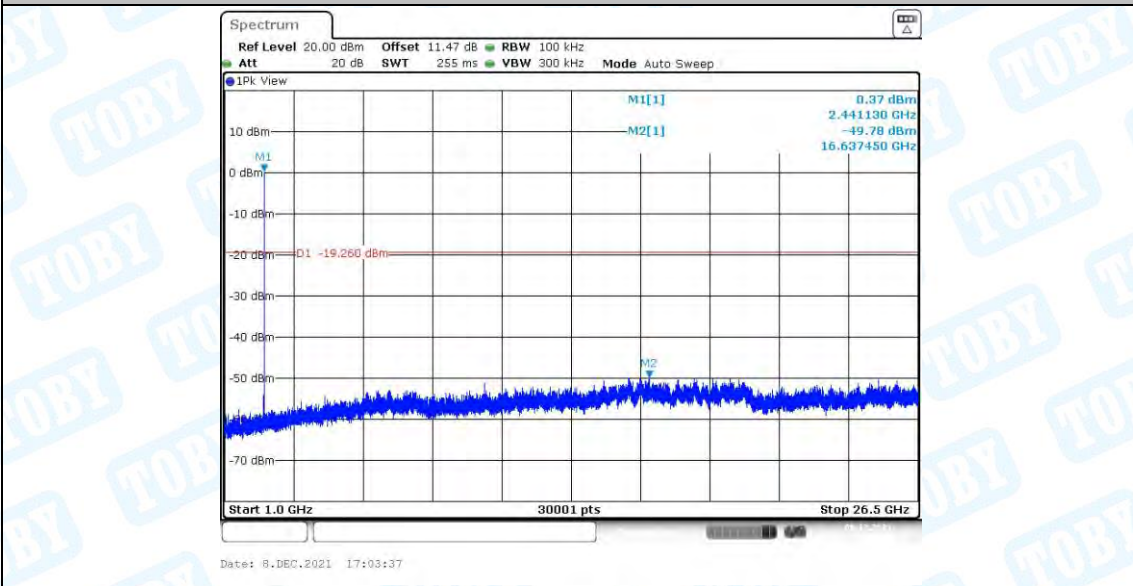
DH5_Ant1_2402_1000~26500



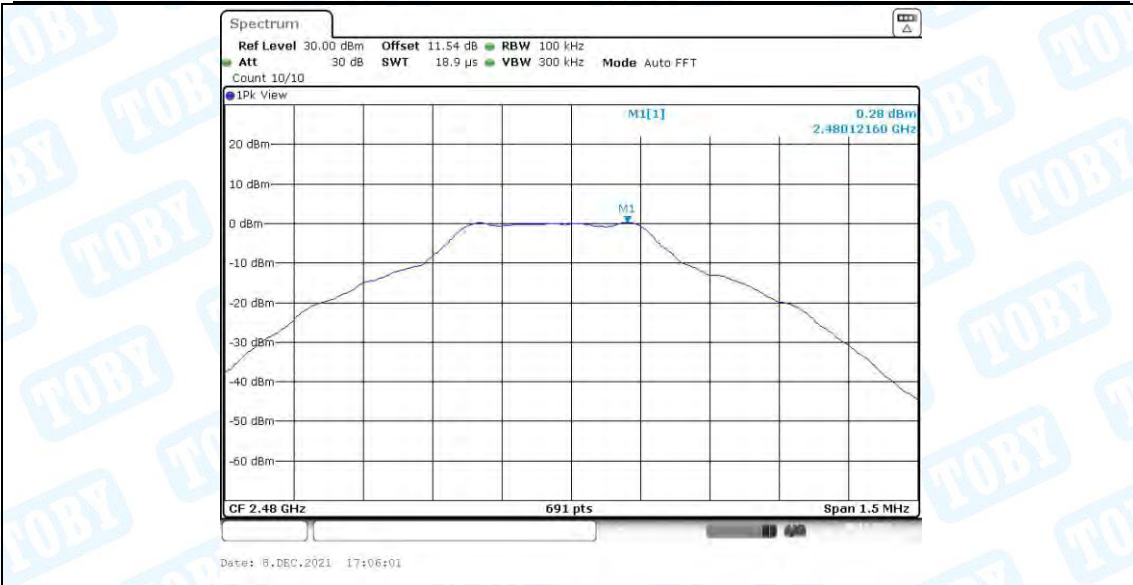
DH5_Ant1_2441_0~Reference



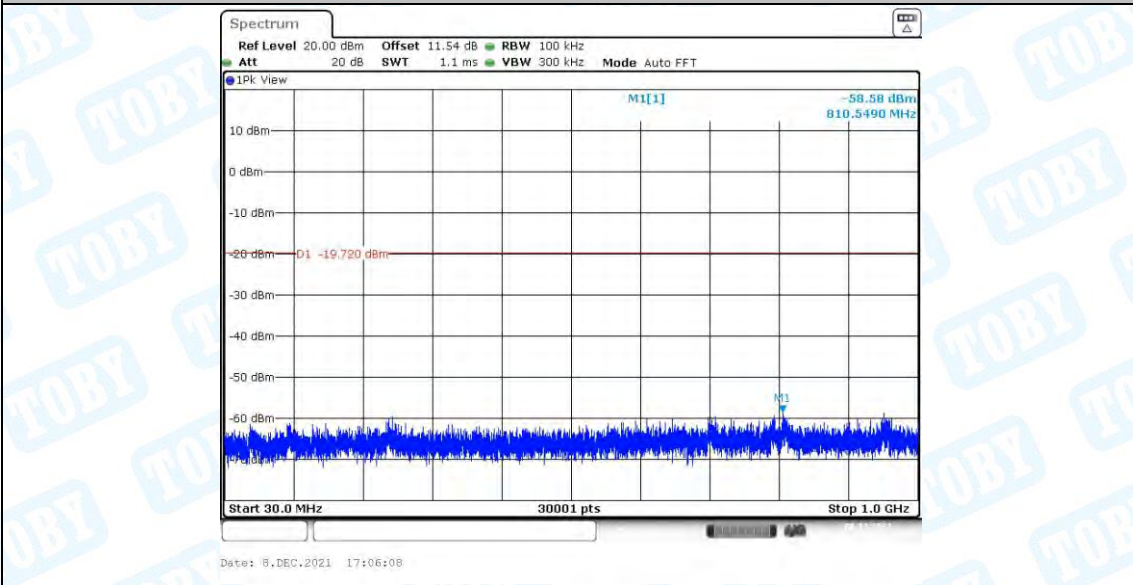
DH5_Ant1_2441_30~1000



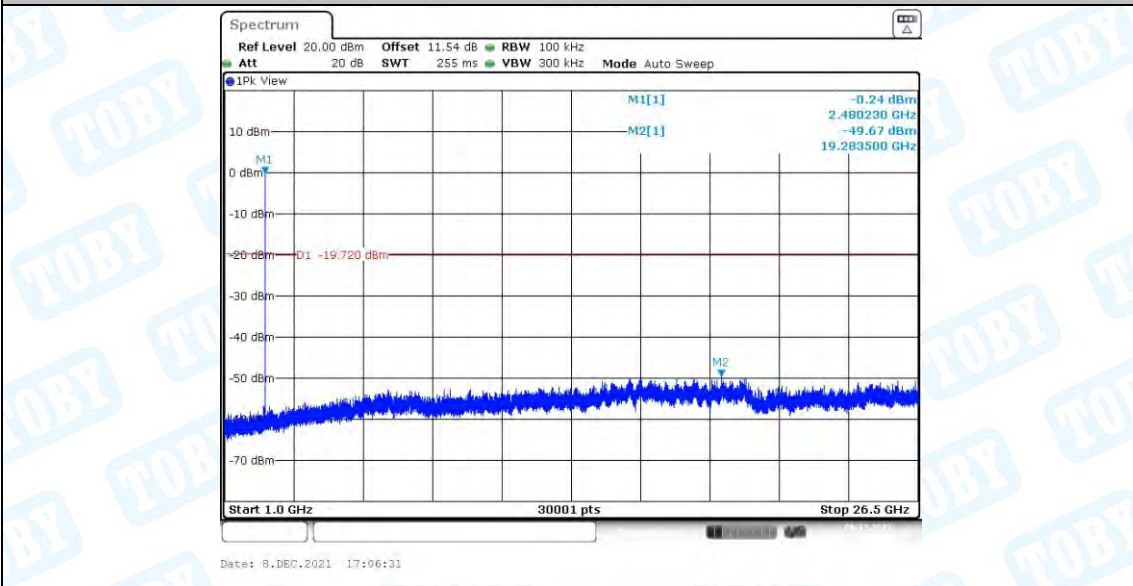
DH5_Ant1_2441_1000~26500



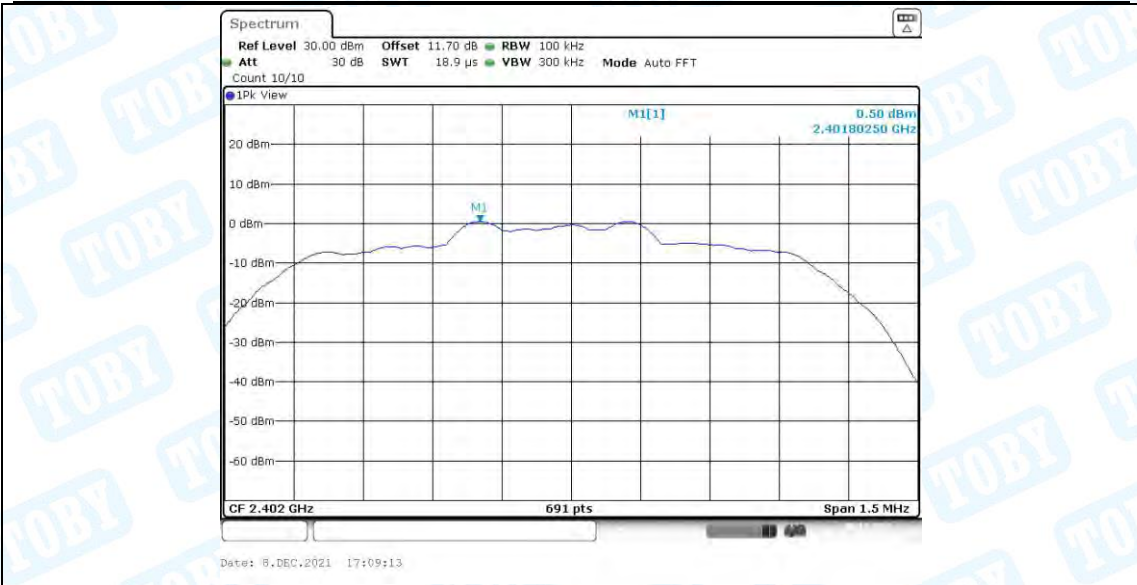
DH5_Ant1_2480_0~Reference



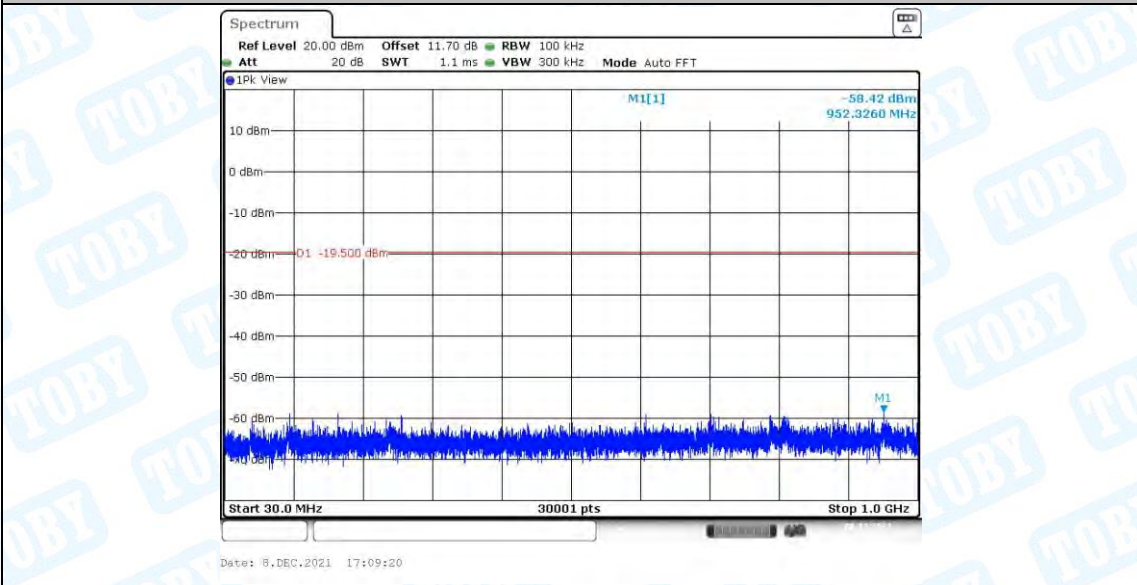
DH5_Ant1_2480_30~1000



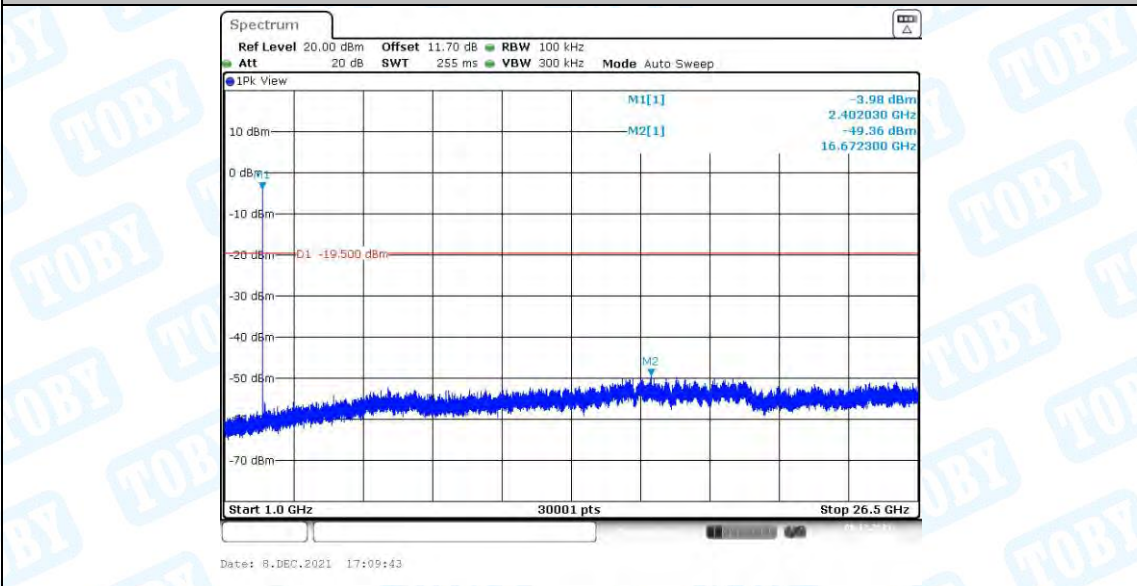
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



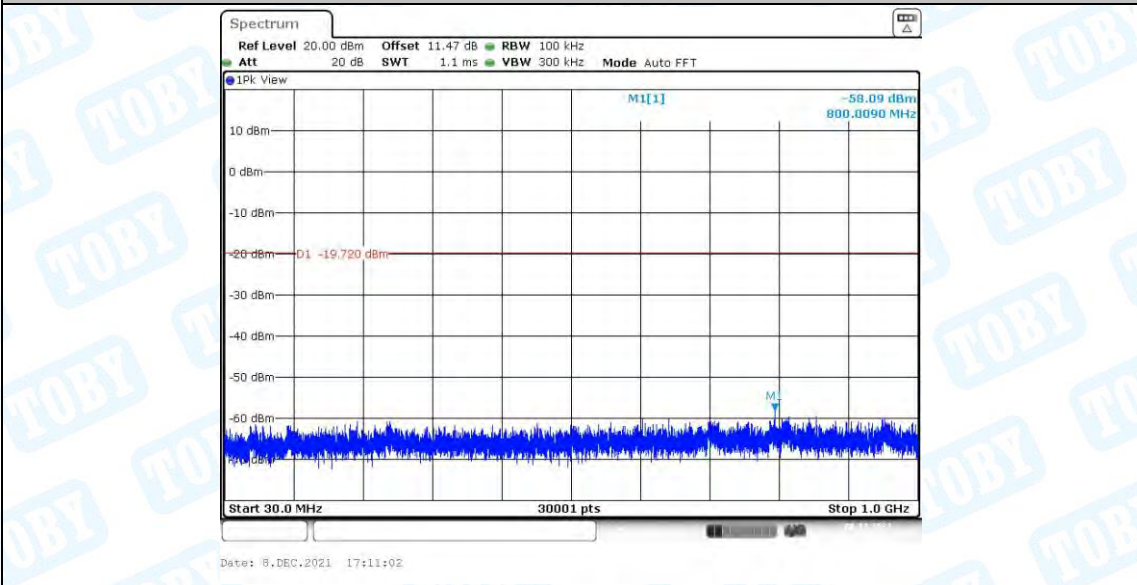
2DH5_Ant1_2402_30~1000



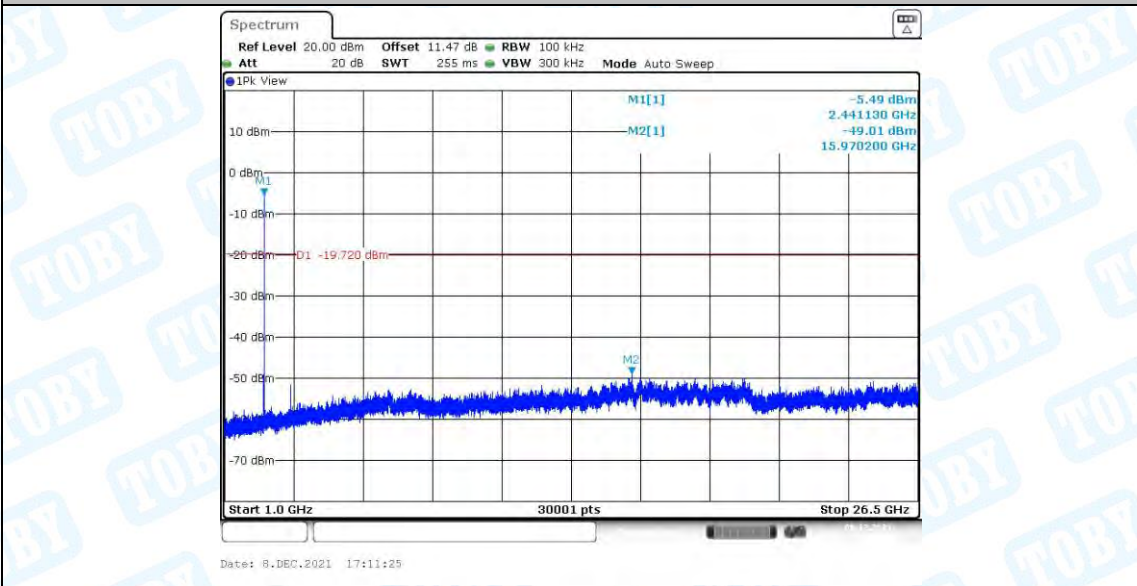
2DH5_Ant1_2402_1000~26500



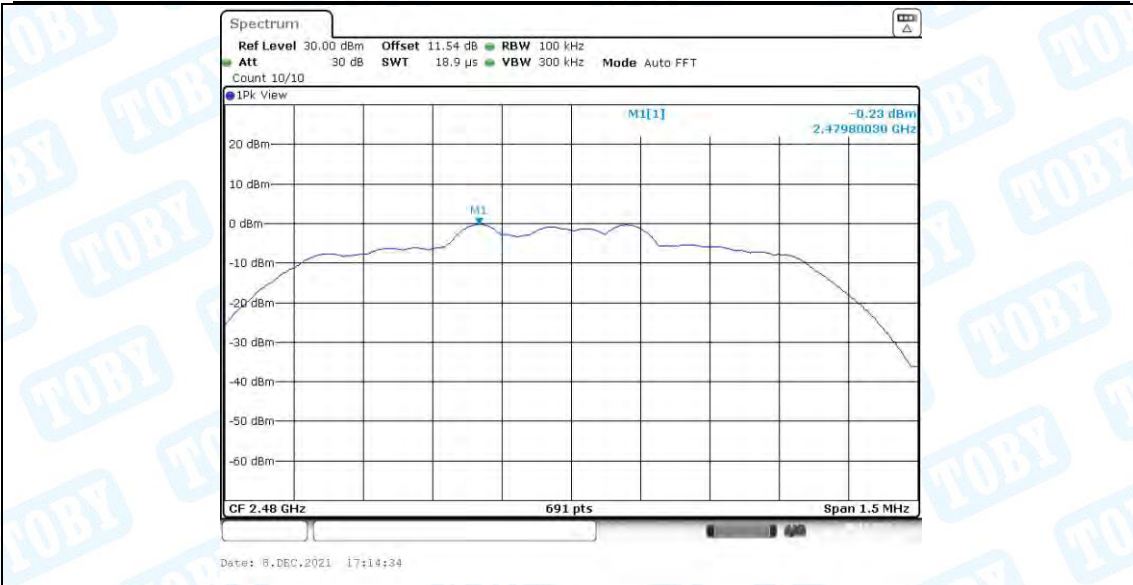
2DH5_Ant1_2441_0~Reference



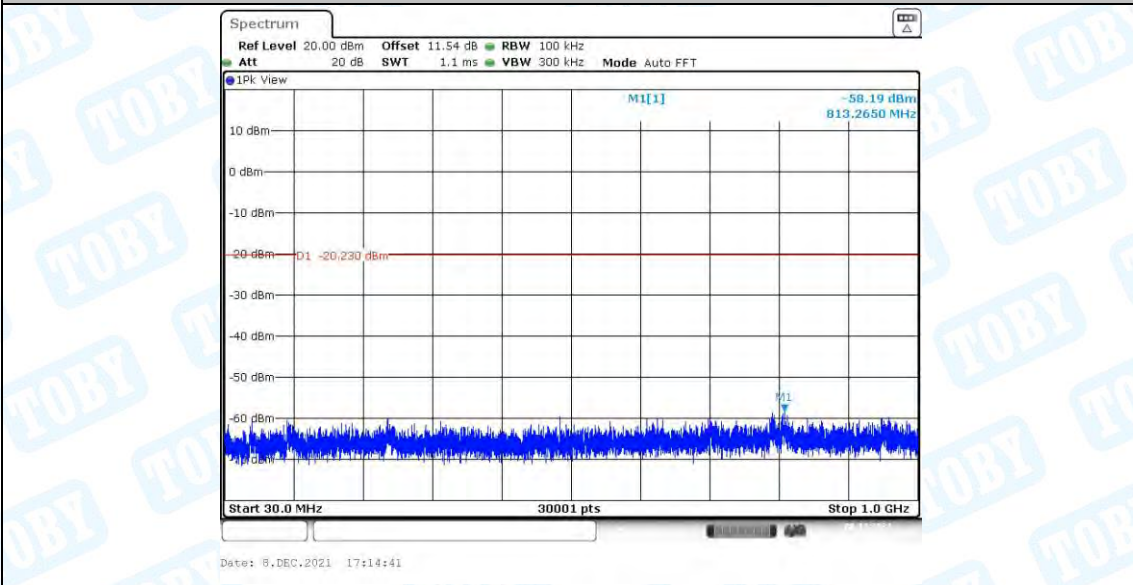
2DH5_Ant1_2441_30~1000



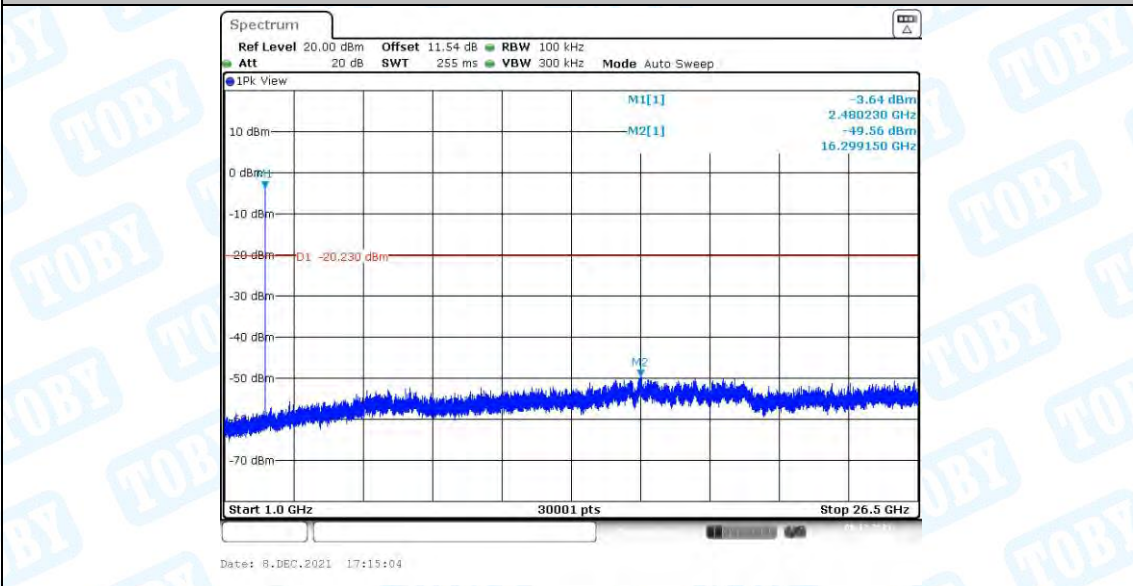
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



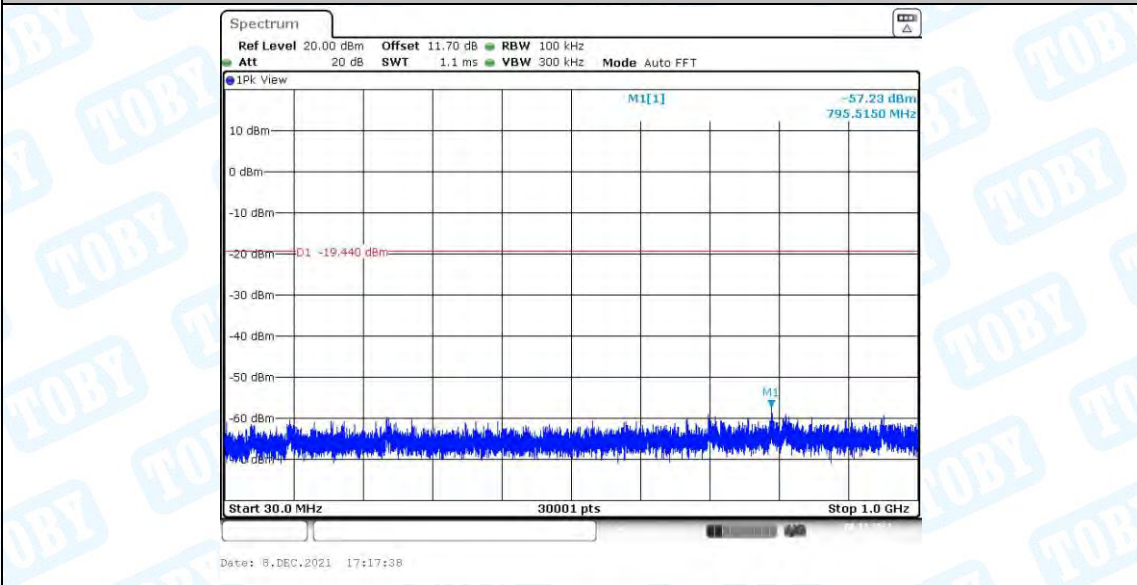
2DH5_Ant1_2480_30~1000



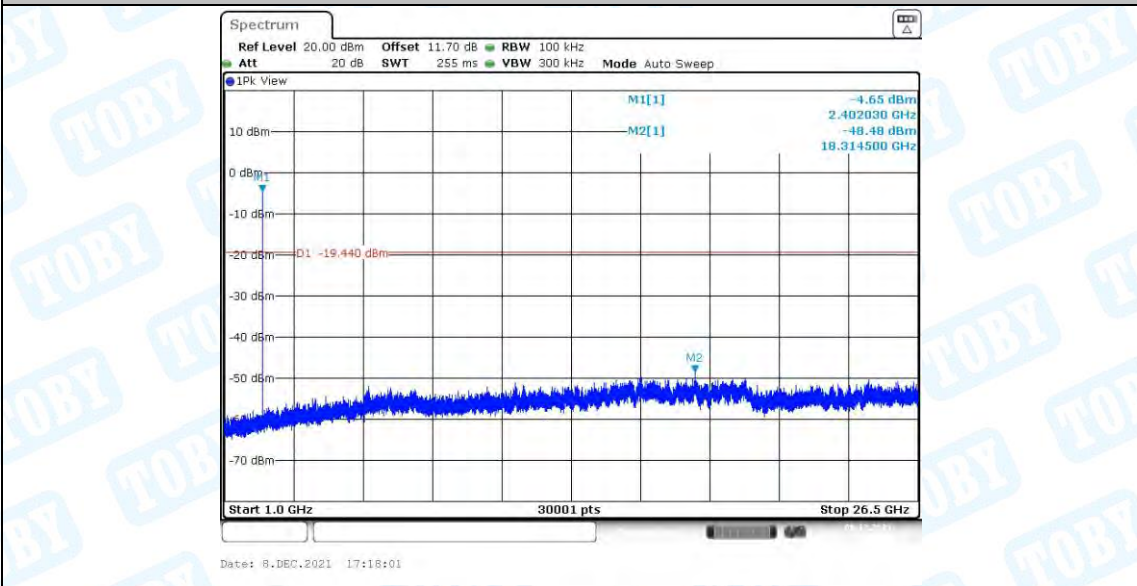
2DH5_Ant1_2480_1000~26500



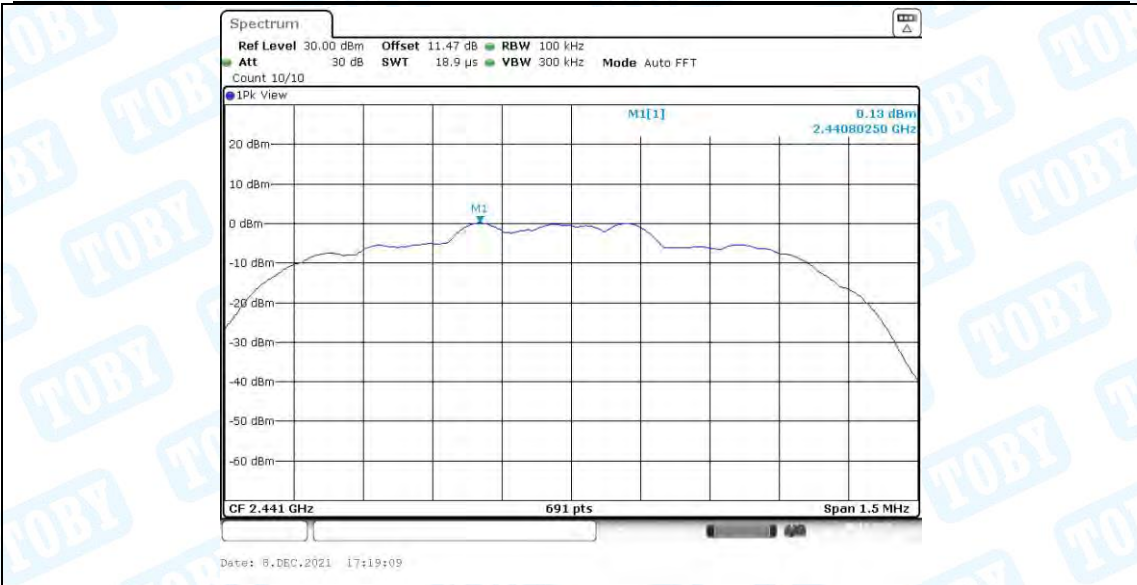
3DH5_Ant1_2402_0~Reference



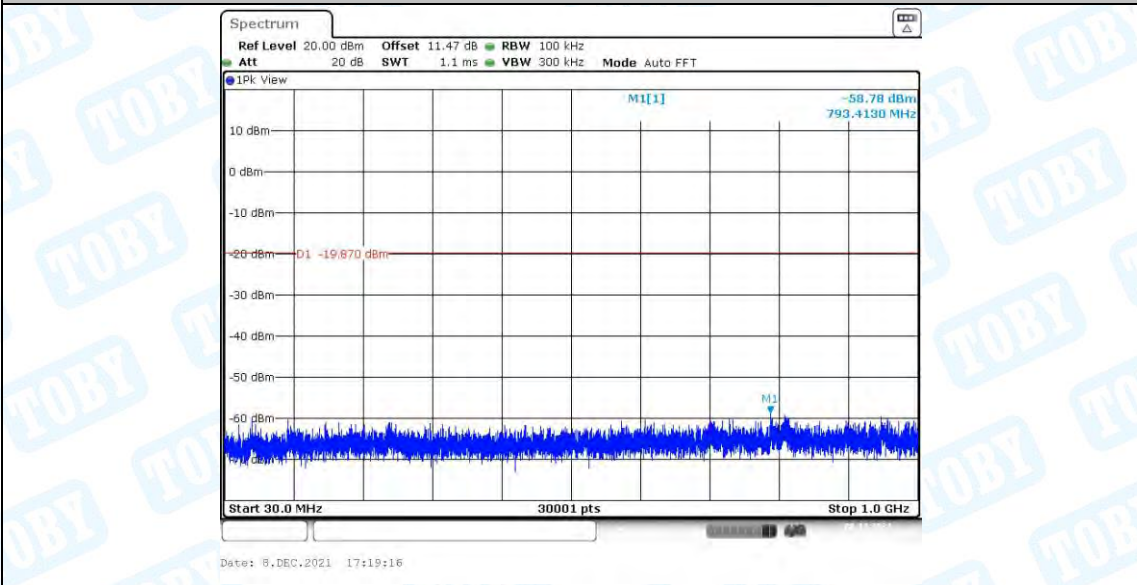
3DH5_Ant1_2402_30~1000



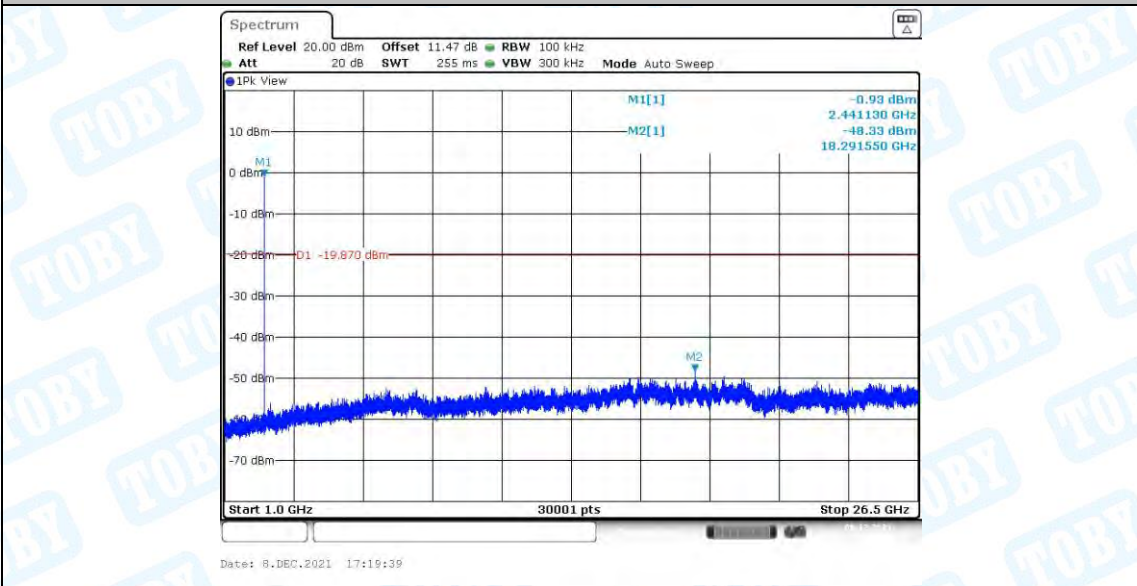
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



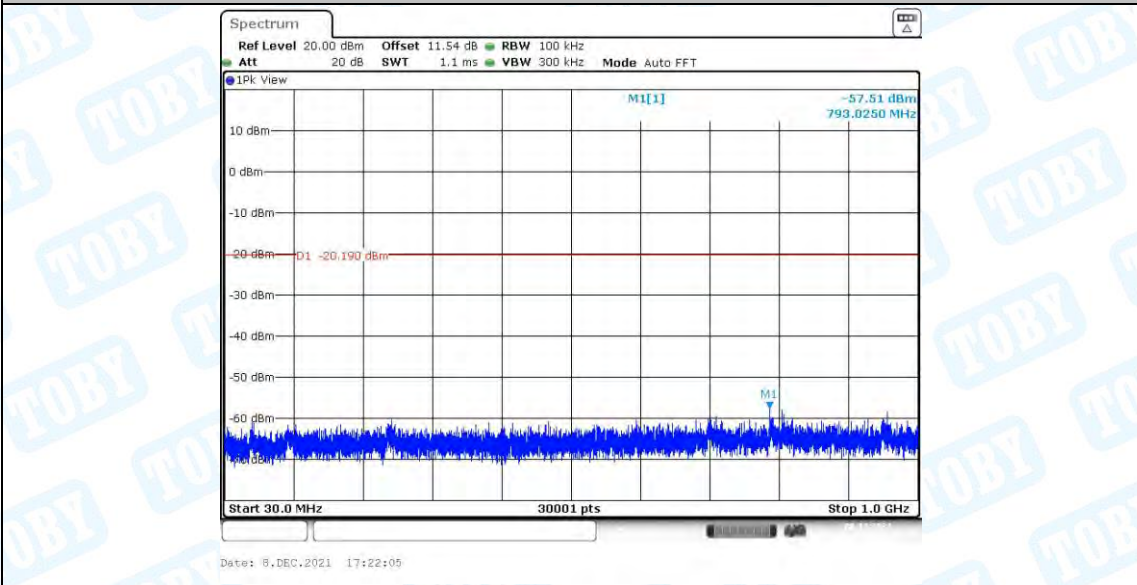
3DH5_Ant1_2441_30~1000



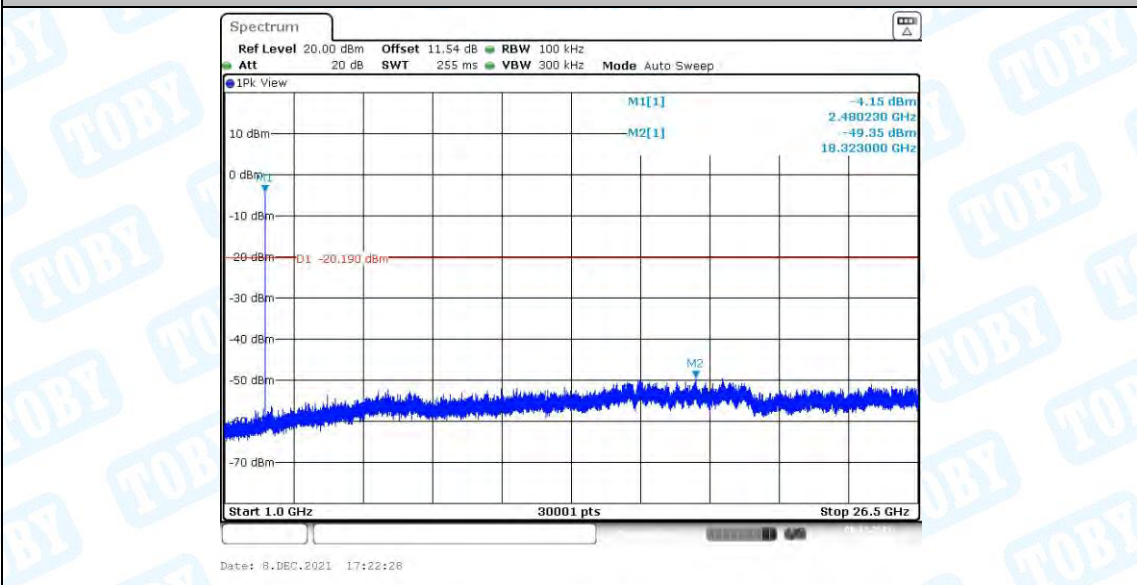
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

9. Emissions in Restricted Bands

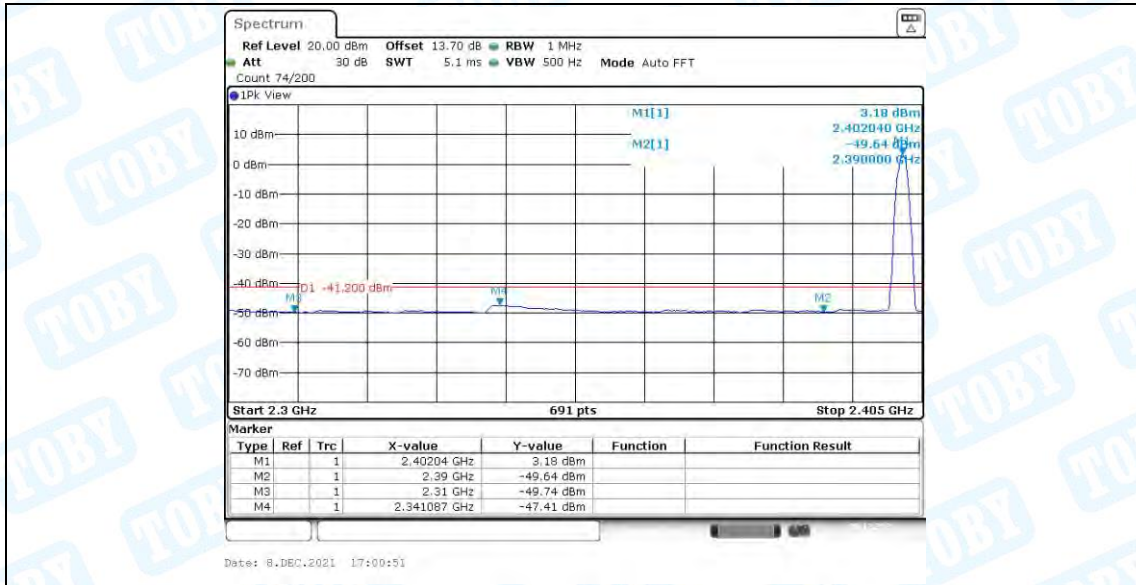
9.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.74	≤-41.20	PASS
				AV	2341.087	-47.41	≤-41.20	PASS
				AV	2390.000	-49.64	≤-41.20	PASS
				Peak	2310.000	-38.12	≤-21.20	PASS
				Peak	2347.783	-35.34	≤-21.20	PASS
				Peak	2390.000	-38.07	≤-21.20	PASS
		High	2480	AV	2483.500	-48.93	≤-41.20	PASS
				AV	2498.174	-48.4	≤-41.20	PASS
				AV	2500.000	-48.95	≤-41.20	PASS
				Peak	2483.500	-40.33	≤-21.20	PASS
				Peak	2484.609	-38.38	≤-21.20	PASS
				Peak	2500.000	-35.76	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.58	≤-41.20	PASS
				AV	2340.478	-47.45	≤-41.20	PASS
				AV	2390.000	-49.53	≤-41.20	PASS
				Peak	2310.000	-38.46	≤-21.20	PASS
				Peak	2346.565	-35.8	≤-21.20	PASS
				Peak	2390.000	-39.15	≤-21.20	PASS
		High	2480	AV	2483.500	-48.93	≤-41.20	PASS
				AV	2484.493	-48.48	≤-41.20	PASS
				AV	2500.000	-48.87	≤-41.20	PASS
				Peak	2483.500	-39.00	≤-21.20	PASS
				Peak	2491.913	-38.44	≤-21.20	PASS
				Peak	2500.000	-36.29	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.78	≤-41.20	PASS
				AV	2340.935	-47.41	≤-41.20	PASS
				AV	2390.000	-49.47	≤-41.20	PASS
				Peak	2310.000	-39.03	≤-21.20	PASS
				Peak	2341.543	-35.01	≤-21.20	PASS
				Peak	2390.000	-39.46	≤-21.20	PASS
		High	2480	AV	2483.500	-48.88	≤-41.20	PASS
				AV	2497.478	-48.4	≤-41.20	PASS
				AV	2500.000	-48.83	≤-41.20	PASS
				Peak	2483.500	-39.60	≤-21.20	PASS
				Peak	2493.420	-37.44	≤-21.20	PASS
				Peak	2500.000	-35.43	≤-21.20	PASS

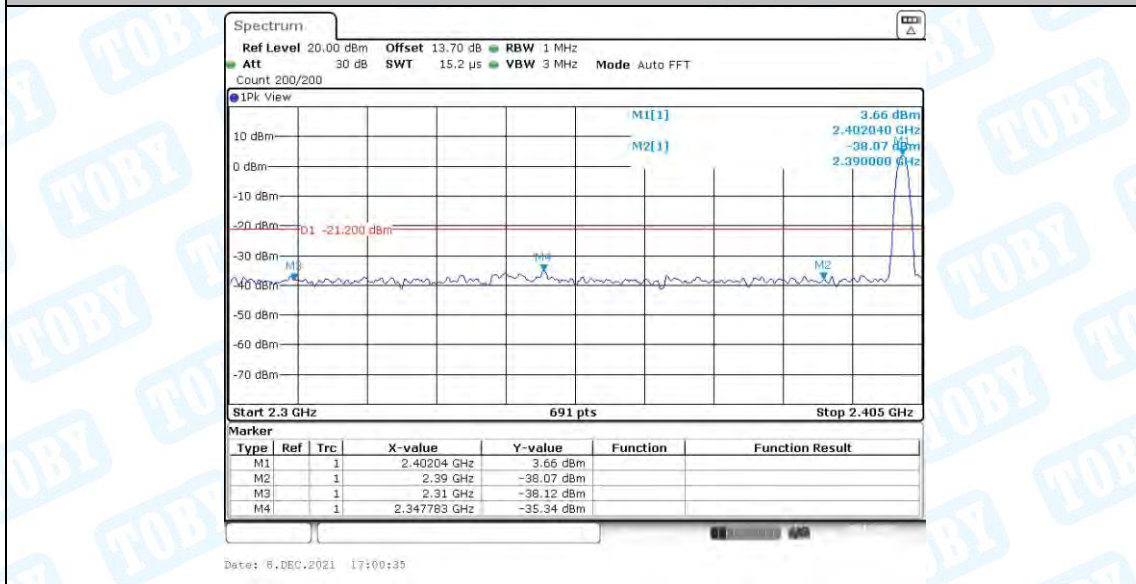
Note:

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.

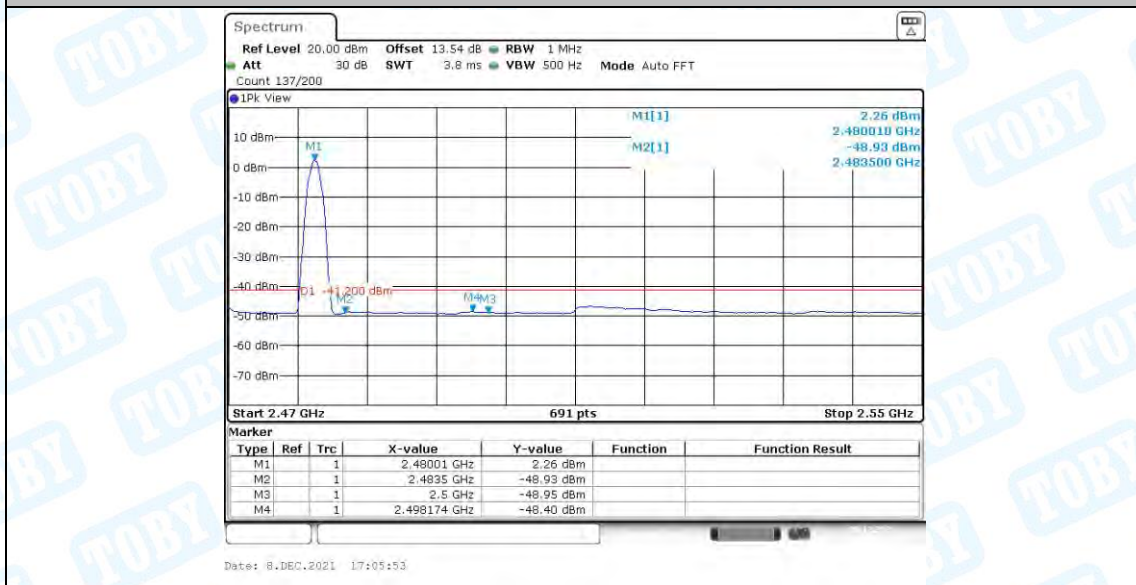
10.2. Test Graphs



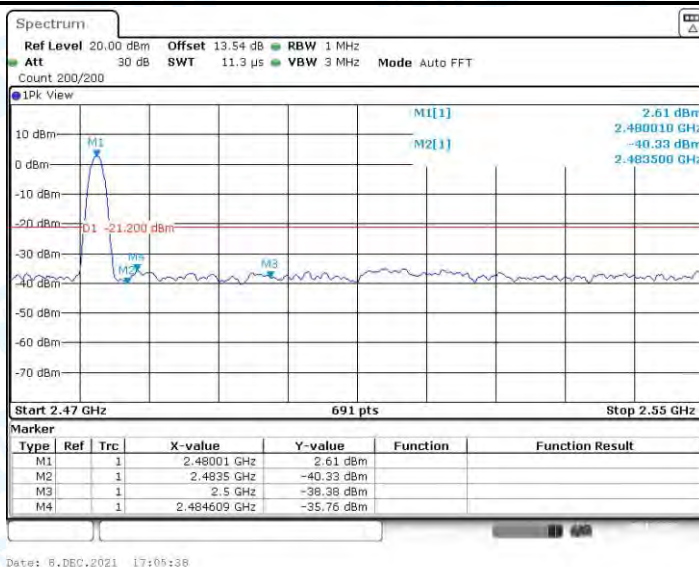
DH5_Ant1_Low_2402_AV



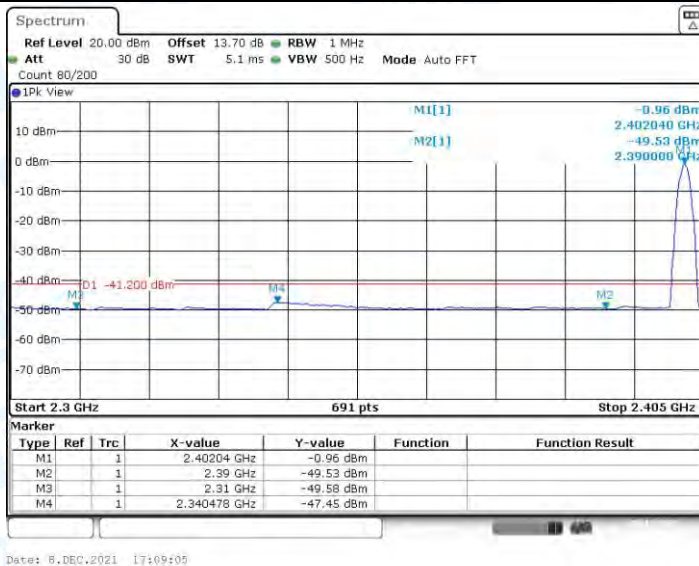
DH5_Ant1_Low_2402_Peak



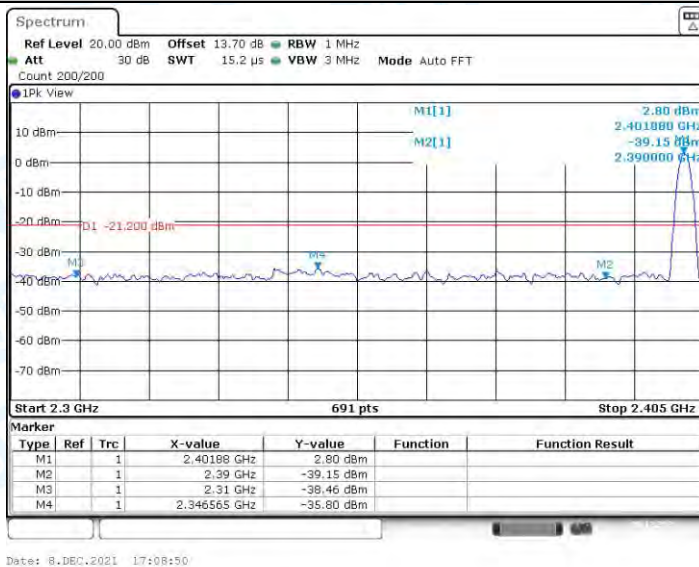
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_2402_AV

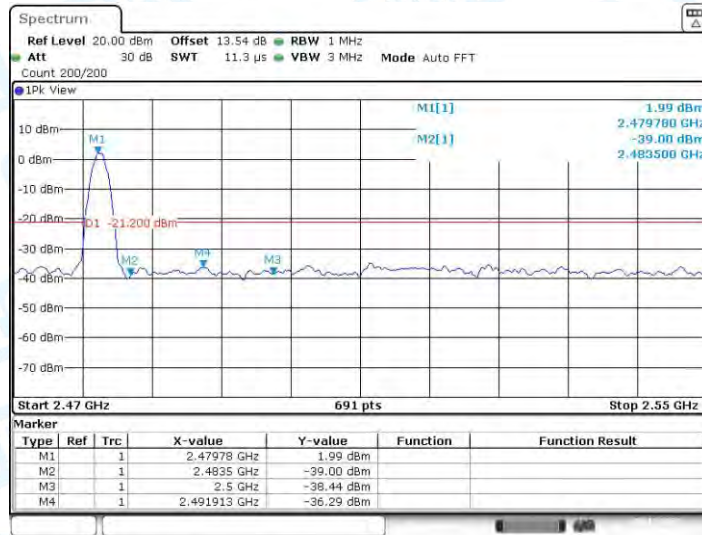


2DH5_Ant1_Low_2402_Peak



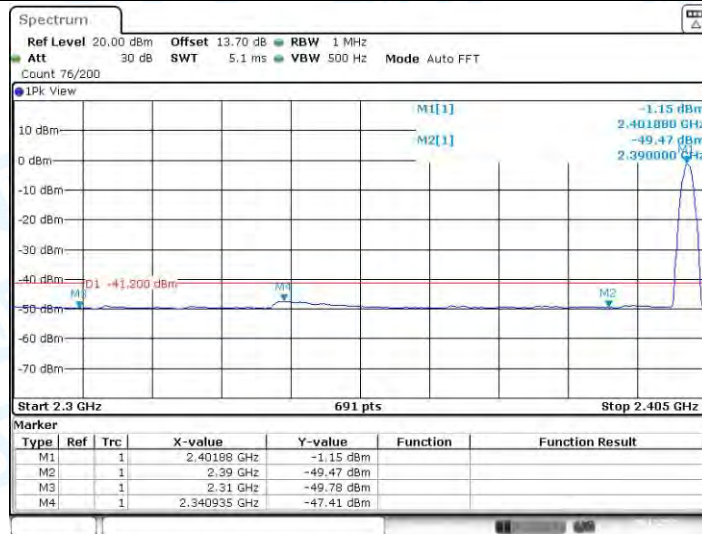
Date: 8.DEC.2021 17:14:26

2DH5_Ant1_High_2480_AV



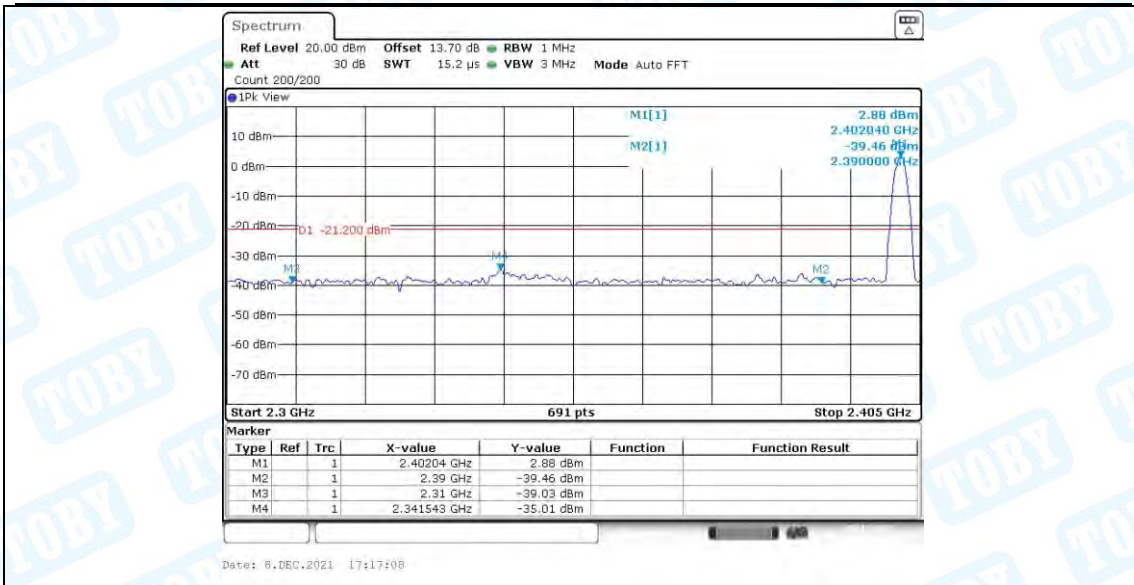
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2DH5_Ant1_High_2480_Peak

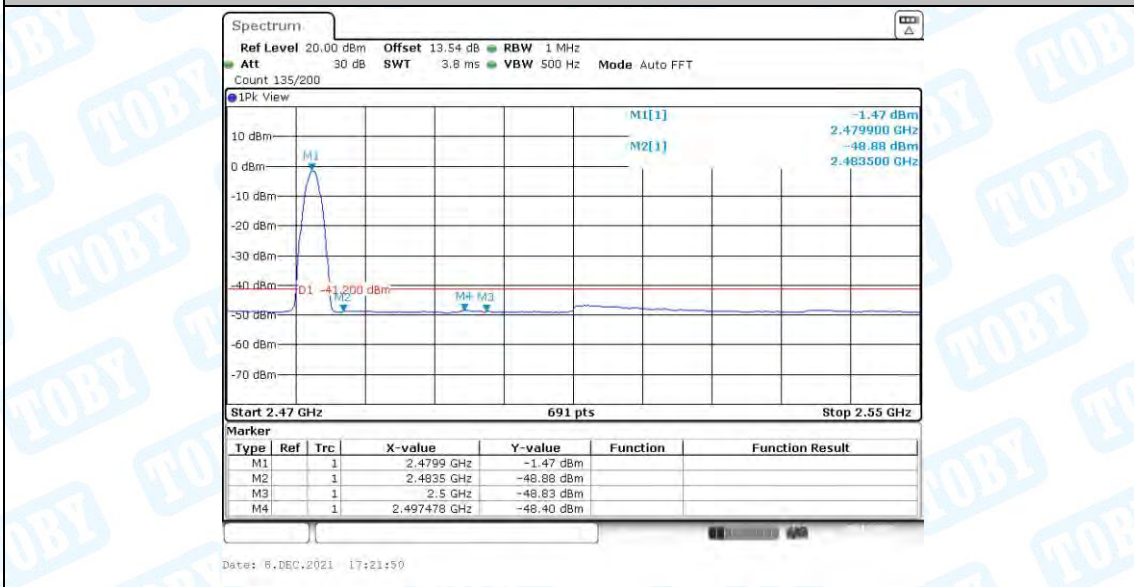


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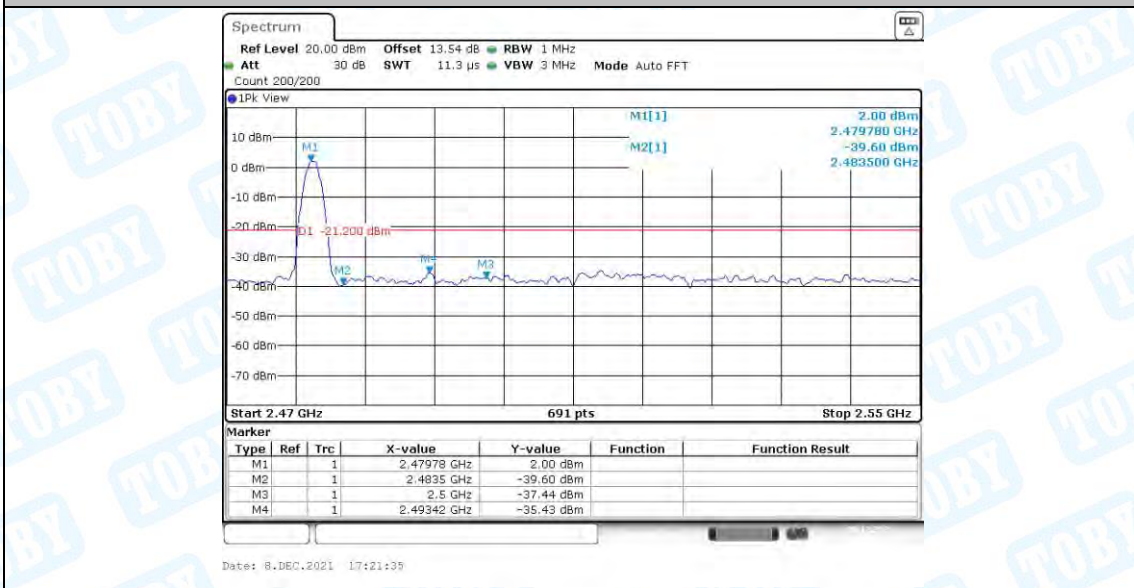
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

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