

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

General Description of EUT	
Product Name:	K3
Test Model:	DV8919
Sample ID:	HC-C-202311-0309-01-01
Environmental Conditions	
Temperature:	23.5°C
Relative Humidity:	47%
Test Voltage:	DC 5V
Test Engineer:	Zhen Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202311-0309-41.	

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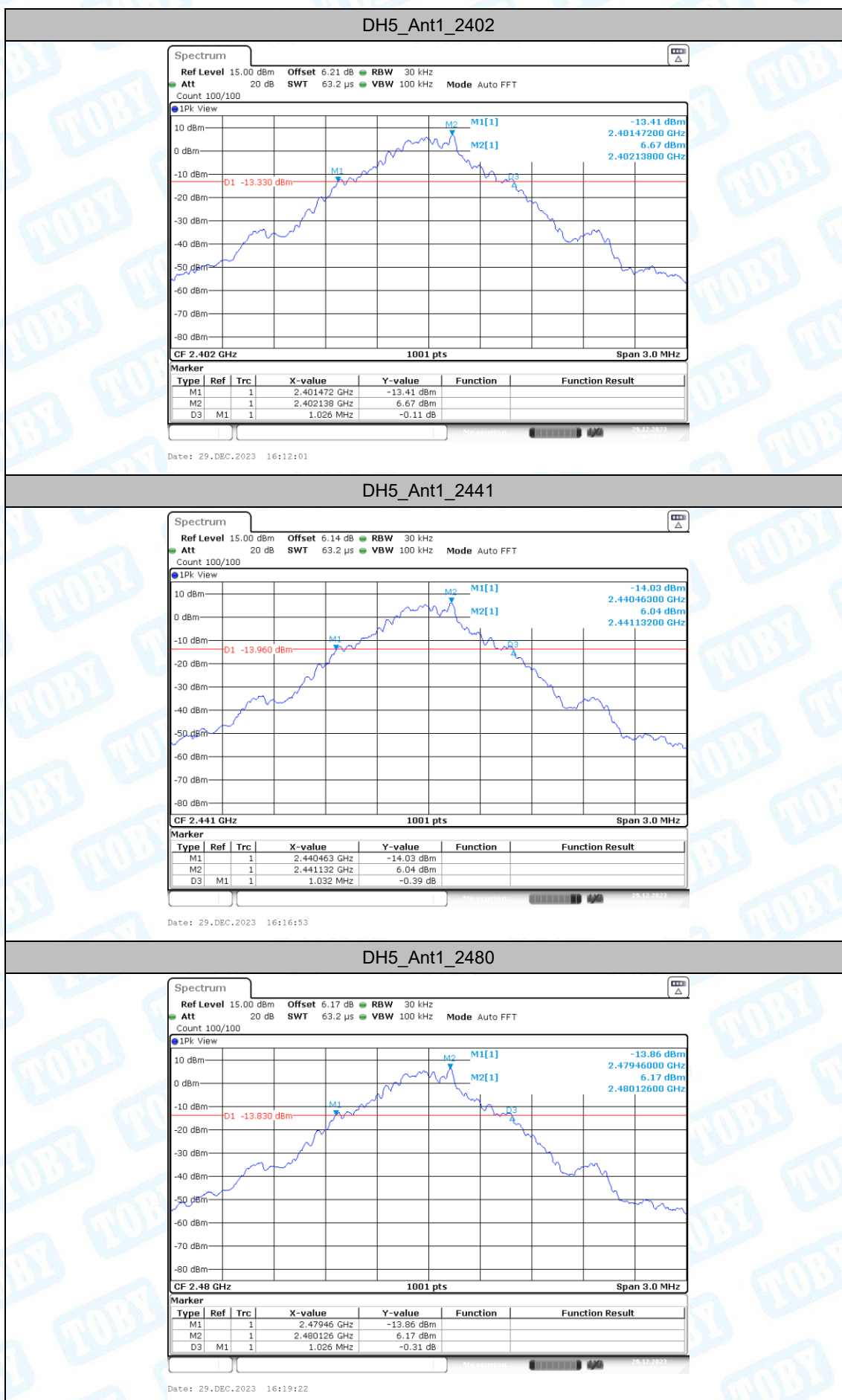
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1. 20dB Emission Bandwidth

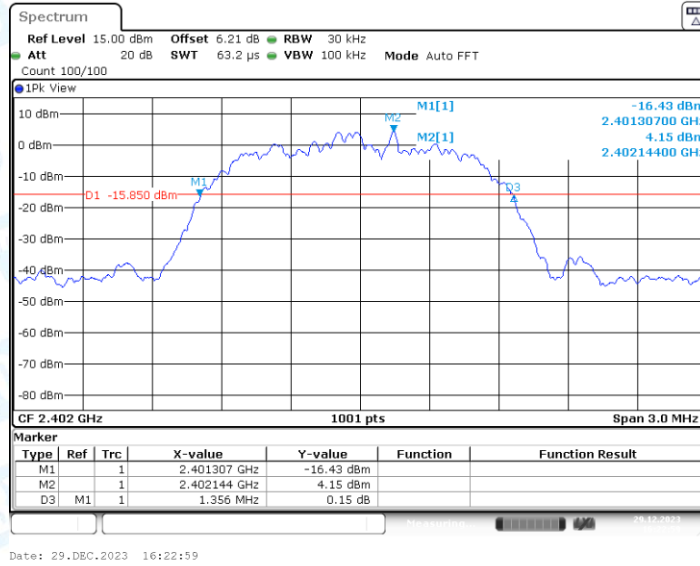
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.03	---	---
		2441	1.03	---	---
		2480	1.03	---	---
2DH5	Ant1	2402	1.36	---	---
		2441	1.35	---	---
		2480	1.35	---	---
3DH5	Ant1	2402	1.31	---	---
		2441	1.31	---	---
		2480	1.31	---	---

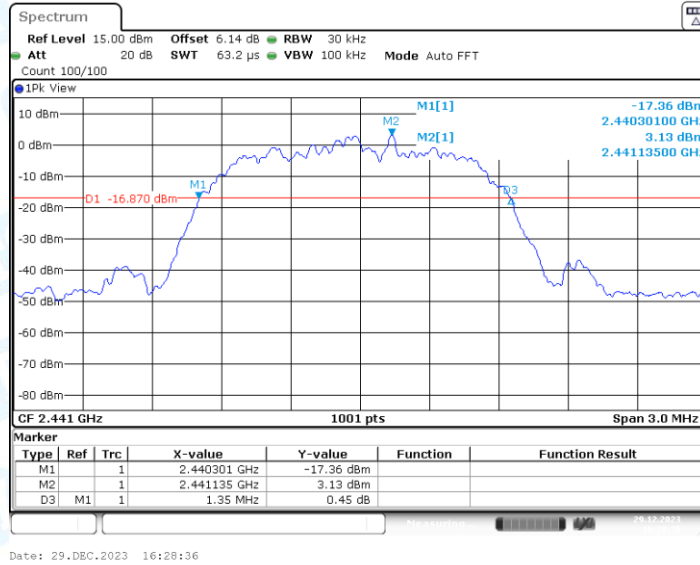
1.2. Test Graphs



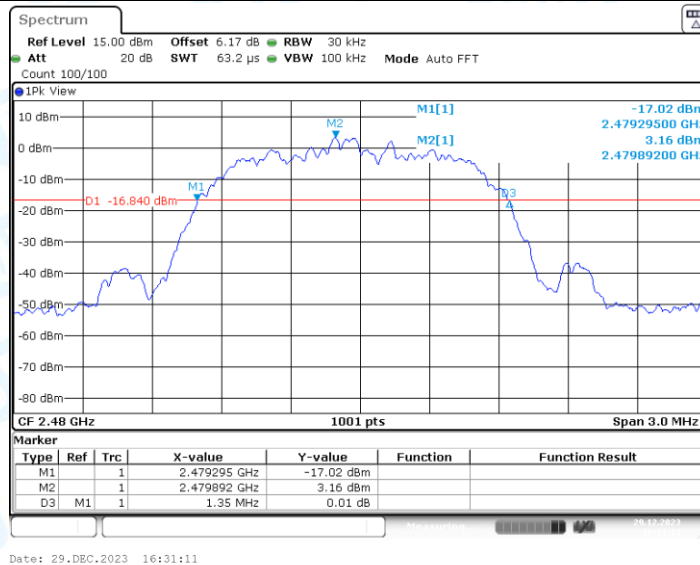
2DH5_Ant1_2402



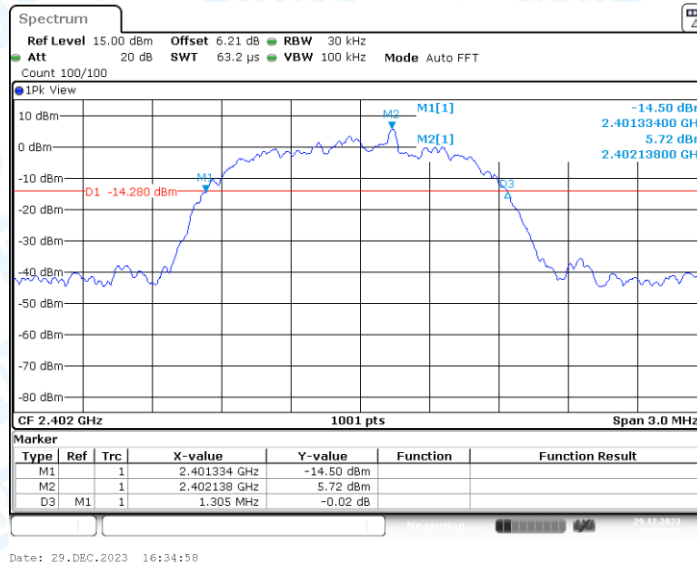
2DH5_Ant1_2441



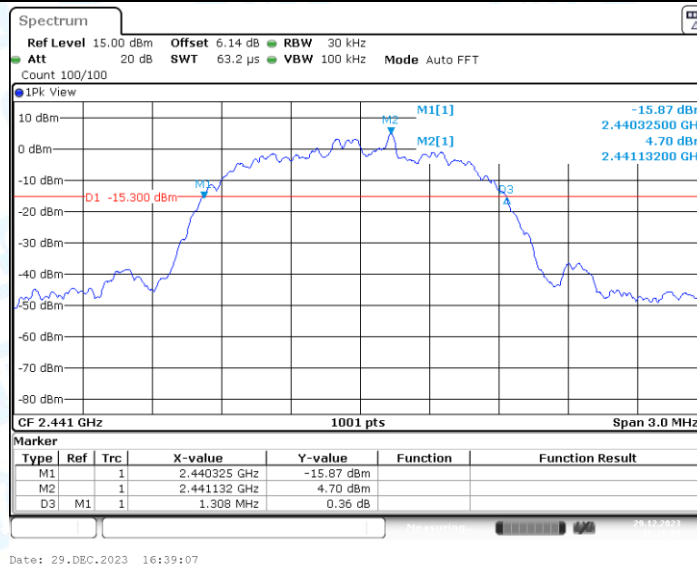
2DH5_Ant1_2480



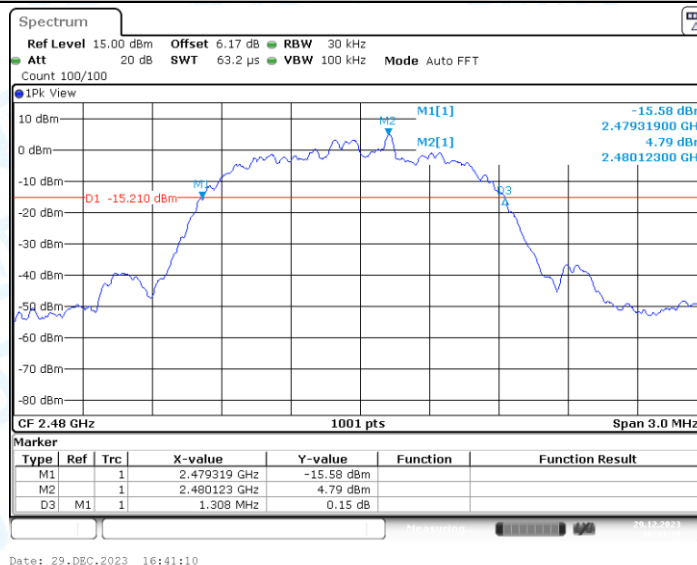
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

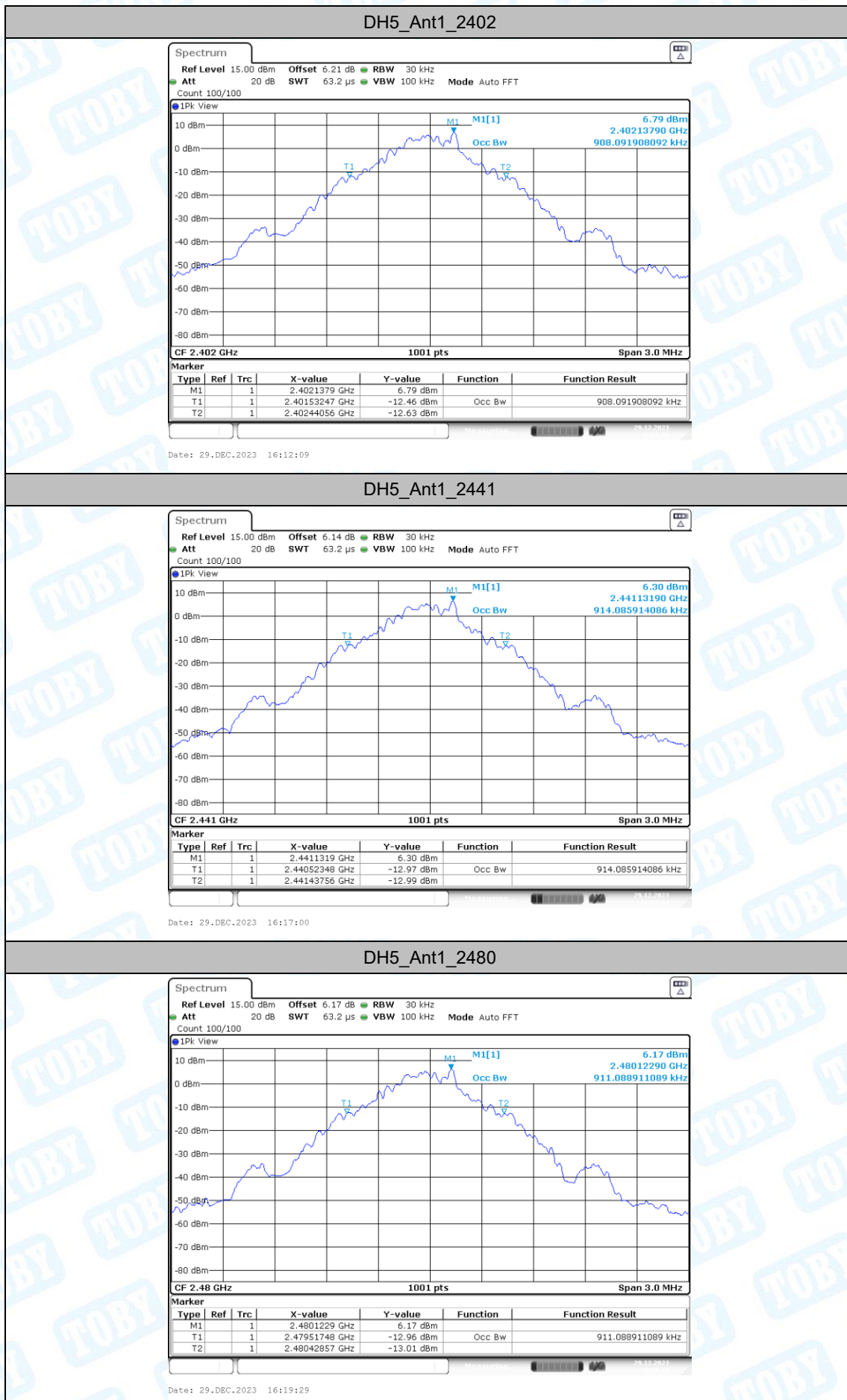


2. Occupied Channel Bandwidth

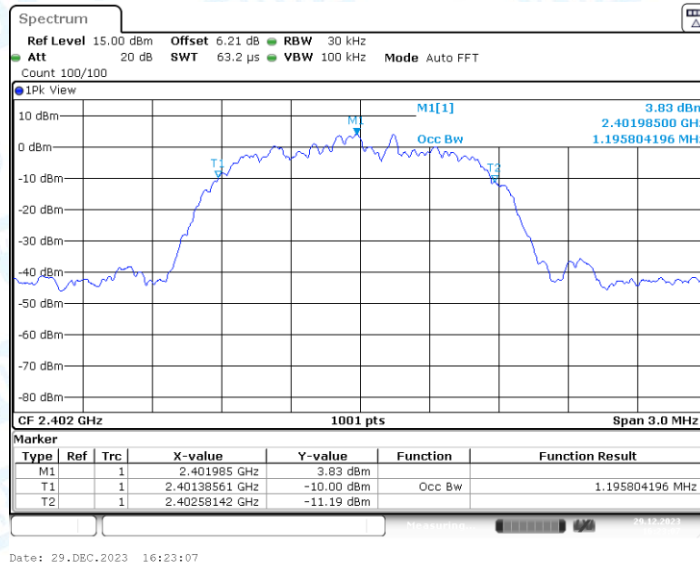
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.908	2401.5325	2402.4406	---	---
		2441	0.914	2440.5235	2441.4376	---	---
		2480	0.911	2479.5175	2480.4286	---	---
2DH5	Ant1	2402	1.196	2401.3856	2402.5814	---	---
		2441	1.196	2440.3796	2441.5754	---	---
		2480	1.193	2479.3736	2480.5664	---	---
3DH5	Ant1	2402	1.193	2401.3856	2402.5784	---	---
		2441	1.196	2440.3796	2441.5754	---	---
		2480	1.196	2479.3706	2480.5664	---	---

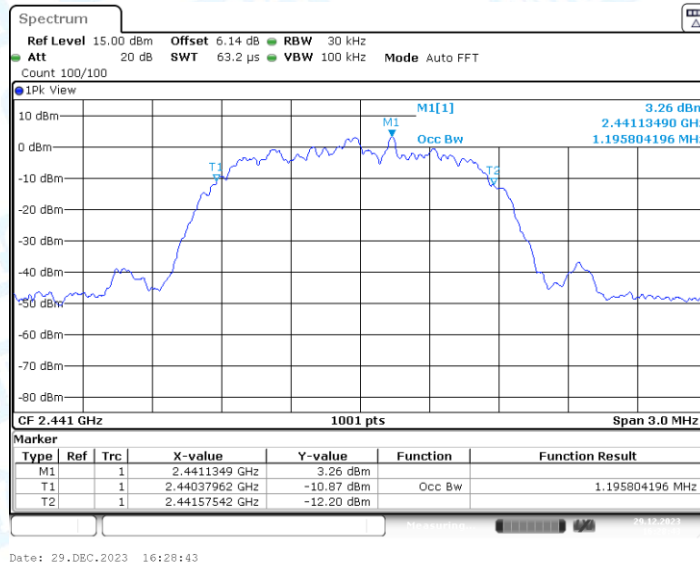
2.2. Test Graphs



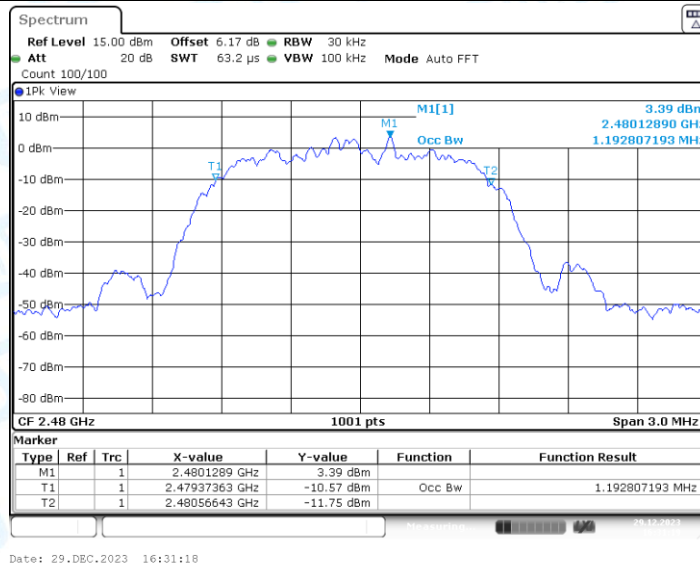
2DH5_Ant1_2402



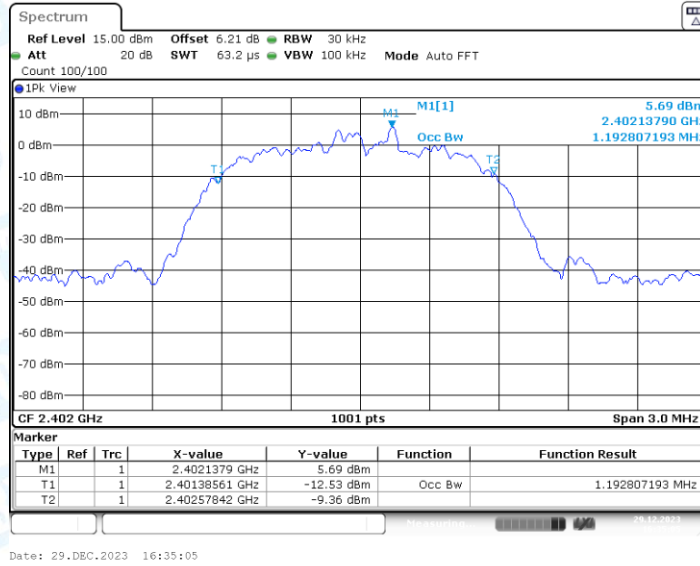
2DH5_Ant1_2441



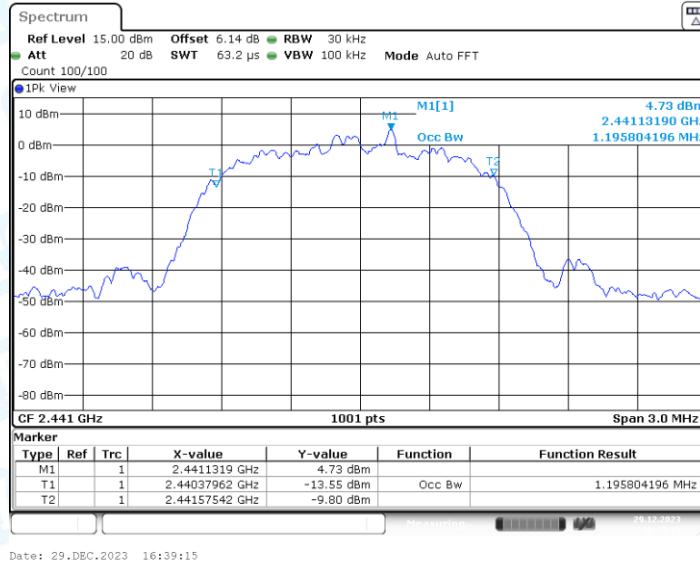
2DH5_Ant1_2480



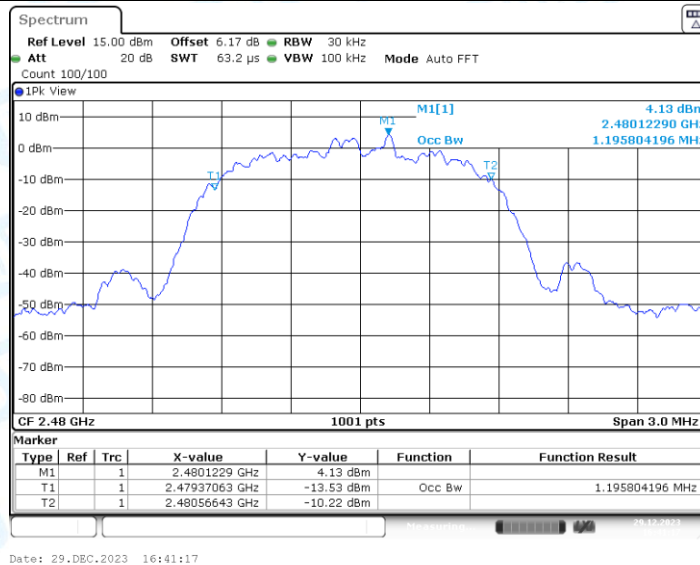
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

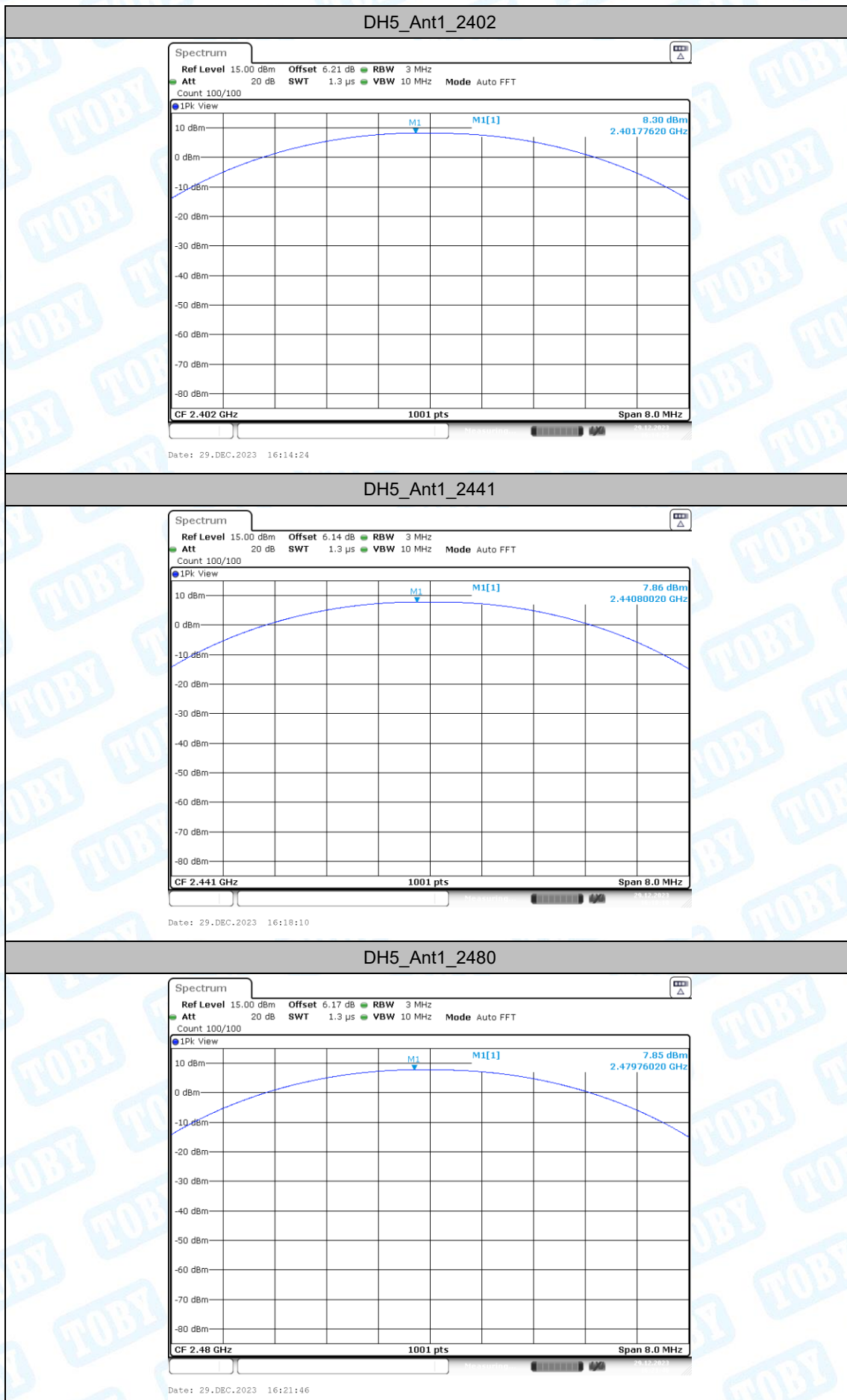


3. Maximum conducted output power

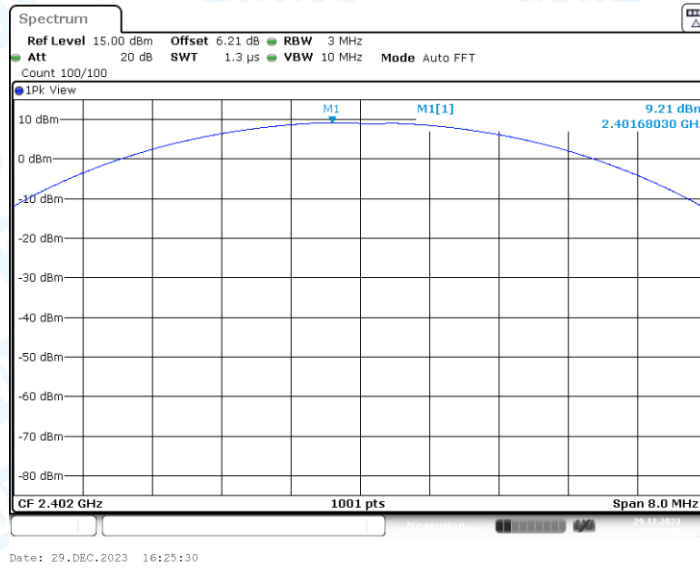
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	8.30	≤20.97	PASS
		2441	7.86	≤20.97	PASS
		2480	7.85	≤20.97	PASS
2DH5	Ant1	2402	9.21	≤20.97	PASS
		2441	8.37	≤20.97	PASS
		2480	8.54	≤20.97	PASS
3DH5	Ant1	2402	9.53	≤20.97	PASS
		2441	8.68	≤20.97	PASS
		2480	8.81	≤20.97	PASS

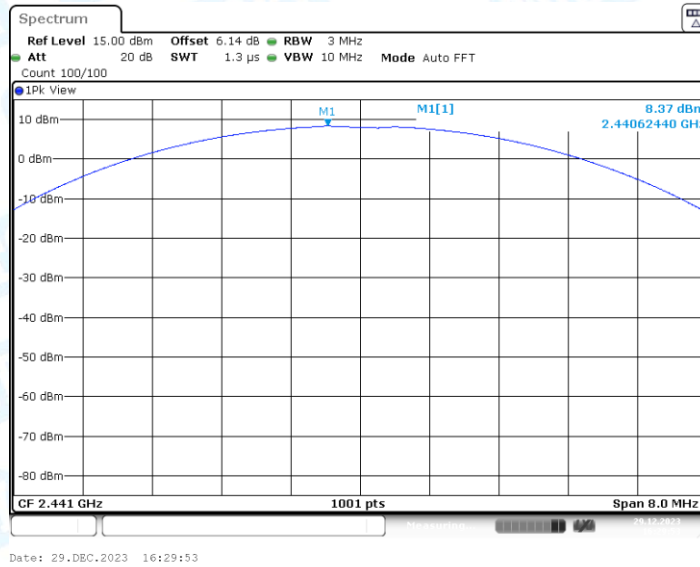
3.2.Test Graphs



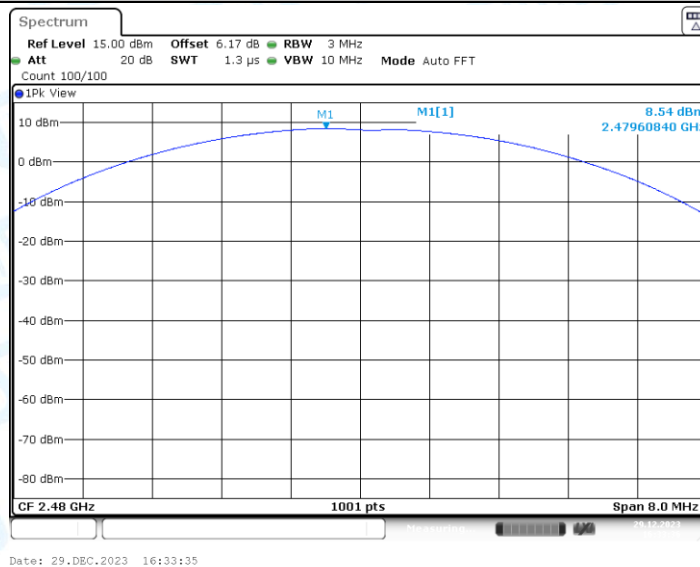
2DH5_Ant1_2402



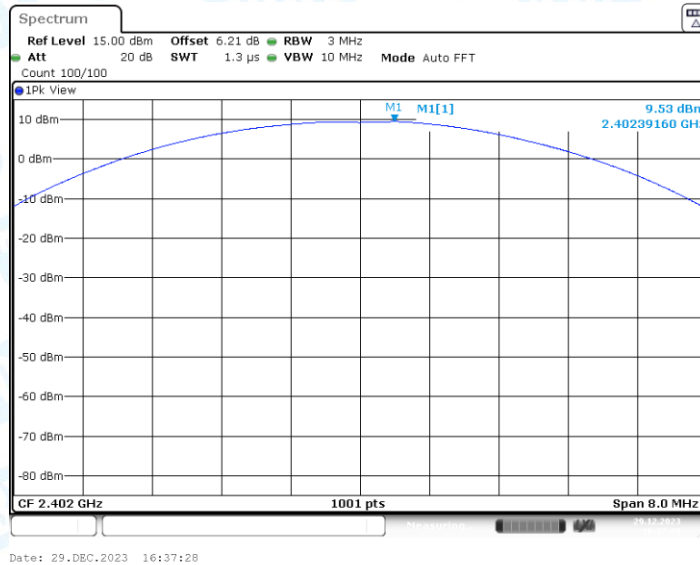
2DH5_Ant1_2441



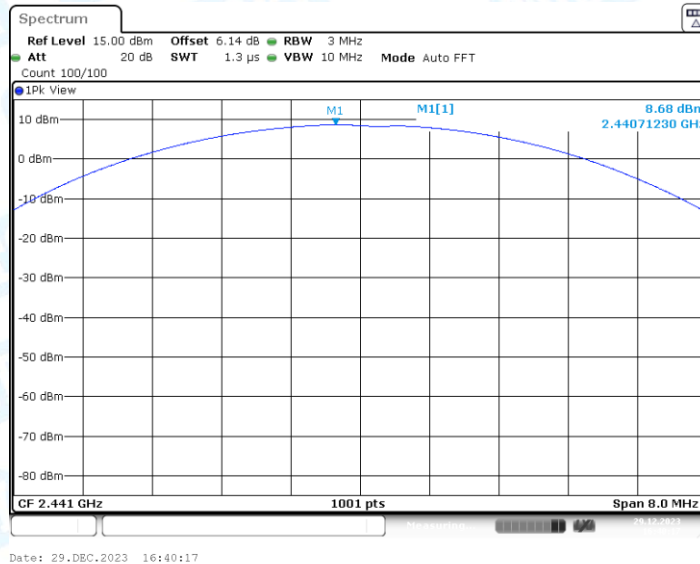
2DH5_Ant1_2480



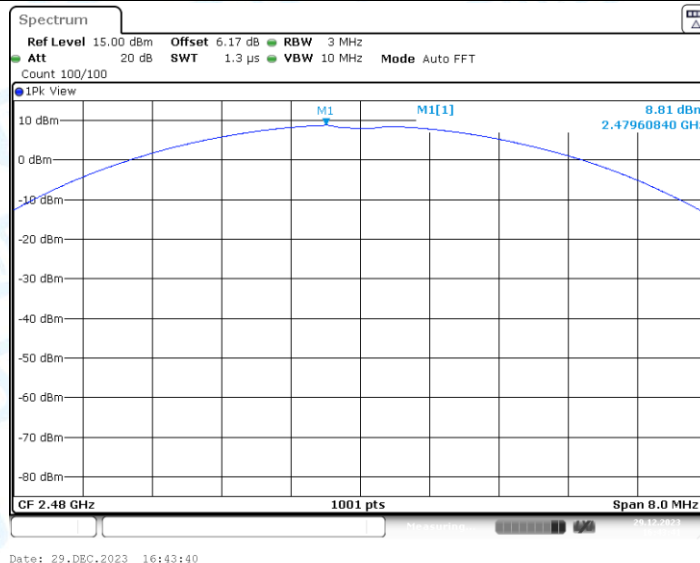
3DH5_Ant1_2402



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	1.003	≥ 0.687	PASS
2DH5	Ant1	Hop	1.003	≥ 0.907	PASS
3DH5	Ant1	Hop	1.012	≥ 0.873	PASS

4.2. Test Graphs

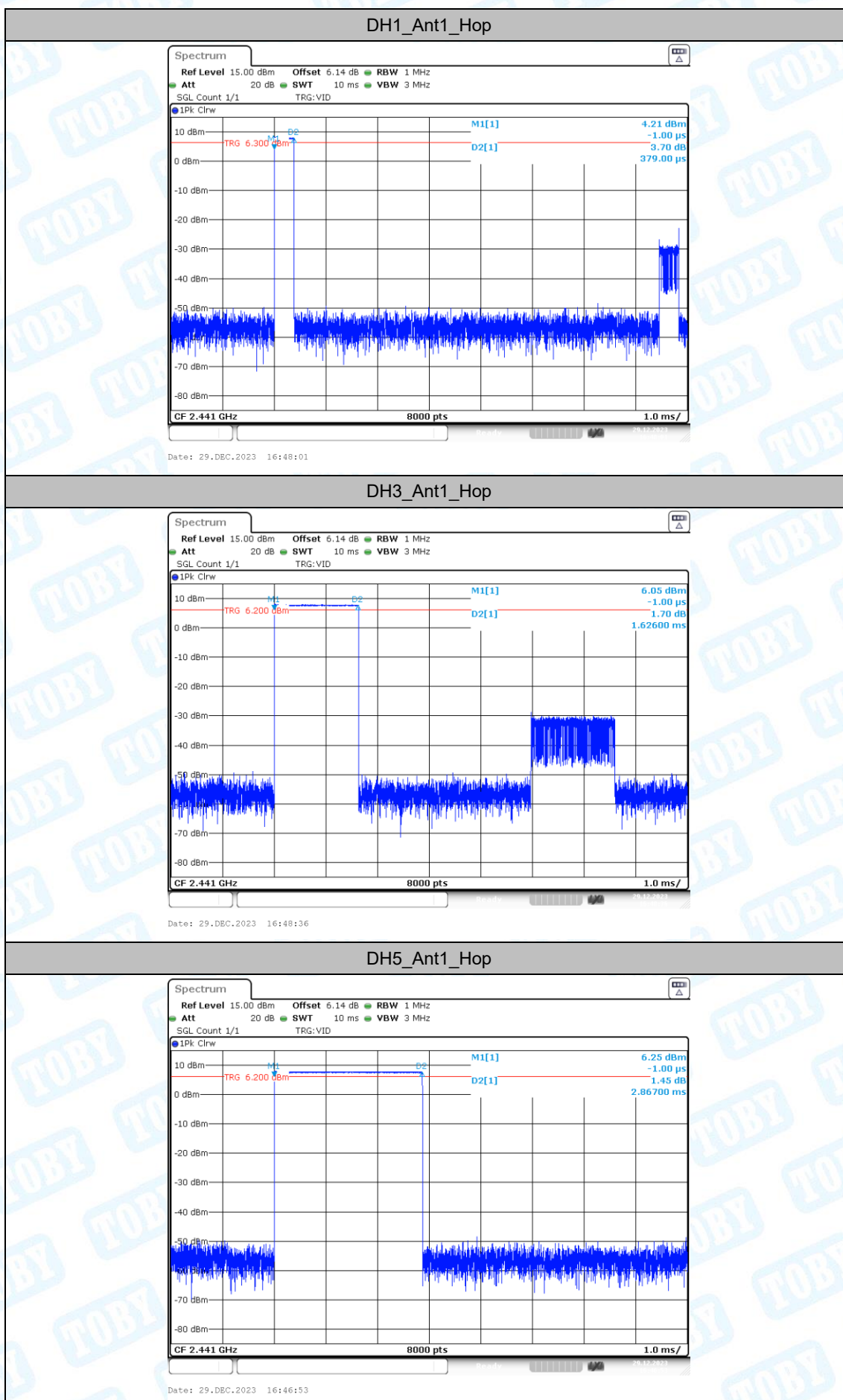


5. Time of occupancy

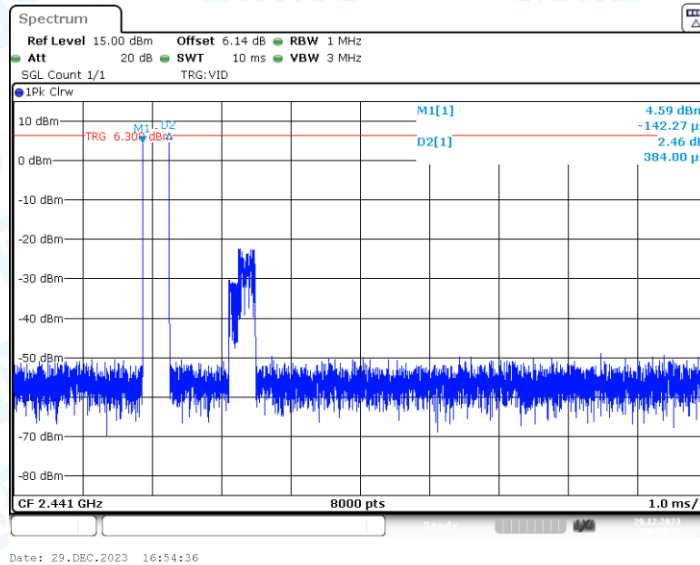
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.867	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.630	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.870	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.628	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.870	106.67	0.306	≤0.4	PASS

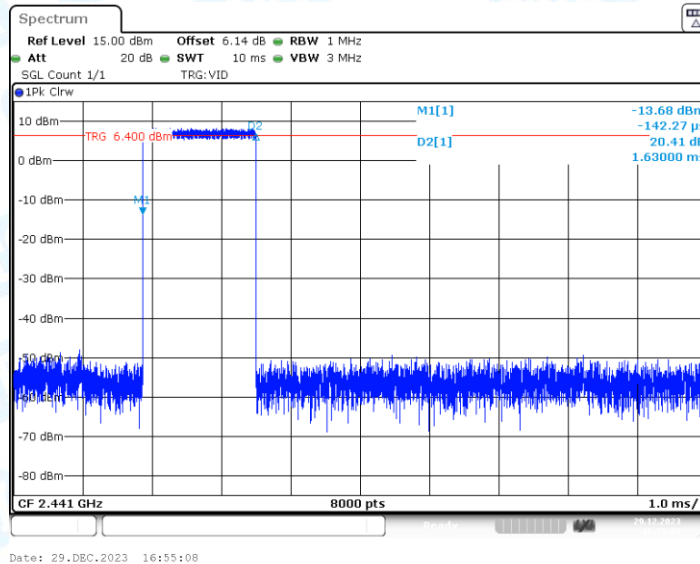
5.2.Test Graphs



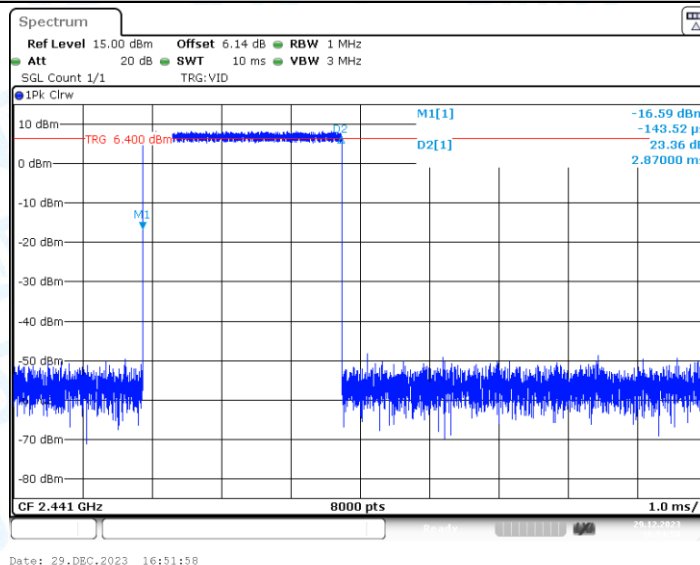
2DH1_Ant1_Hop

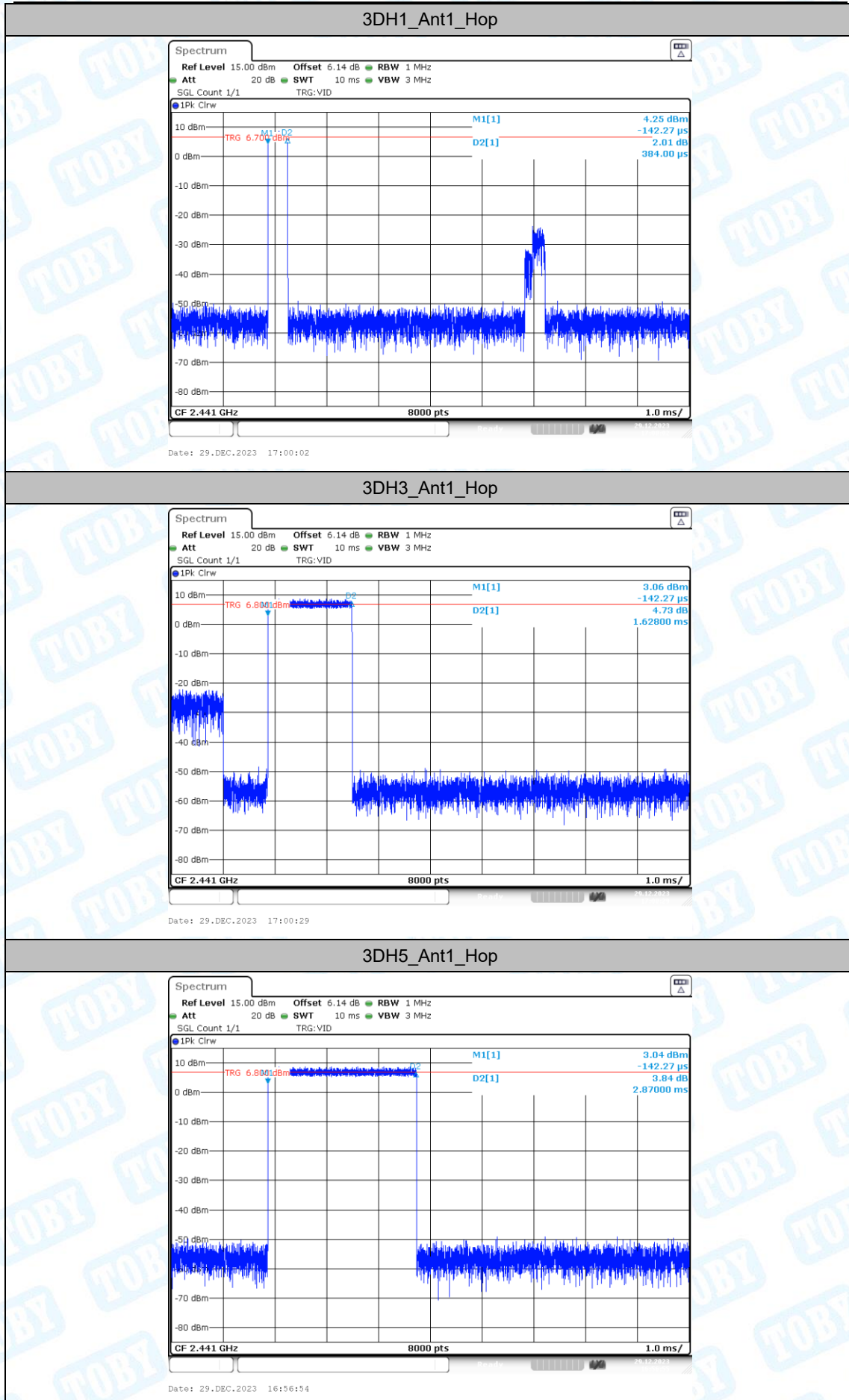


2DH3_Ant1_Hop



2DH5_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

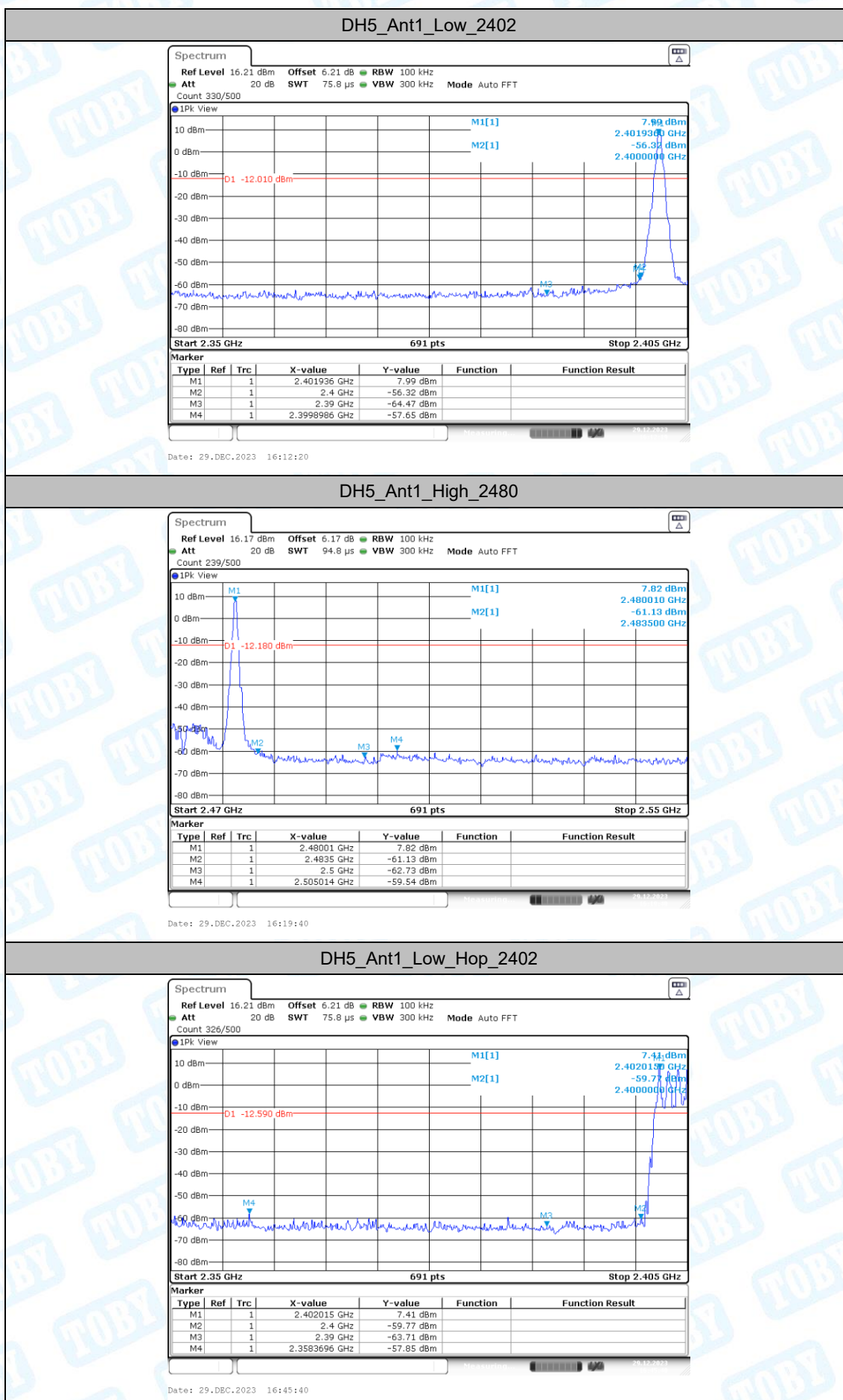


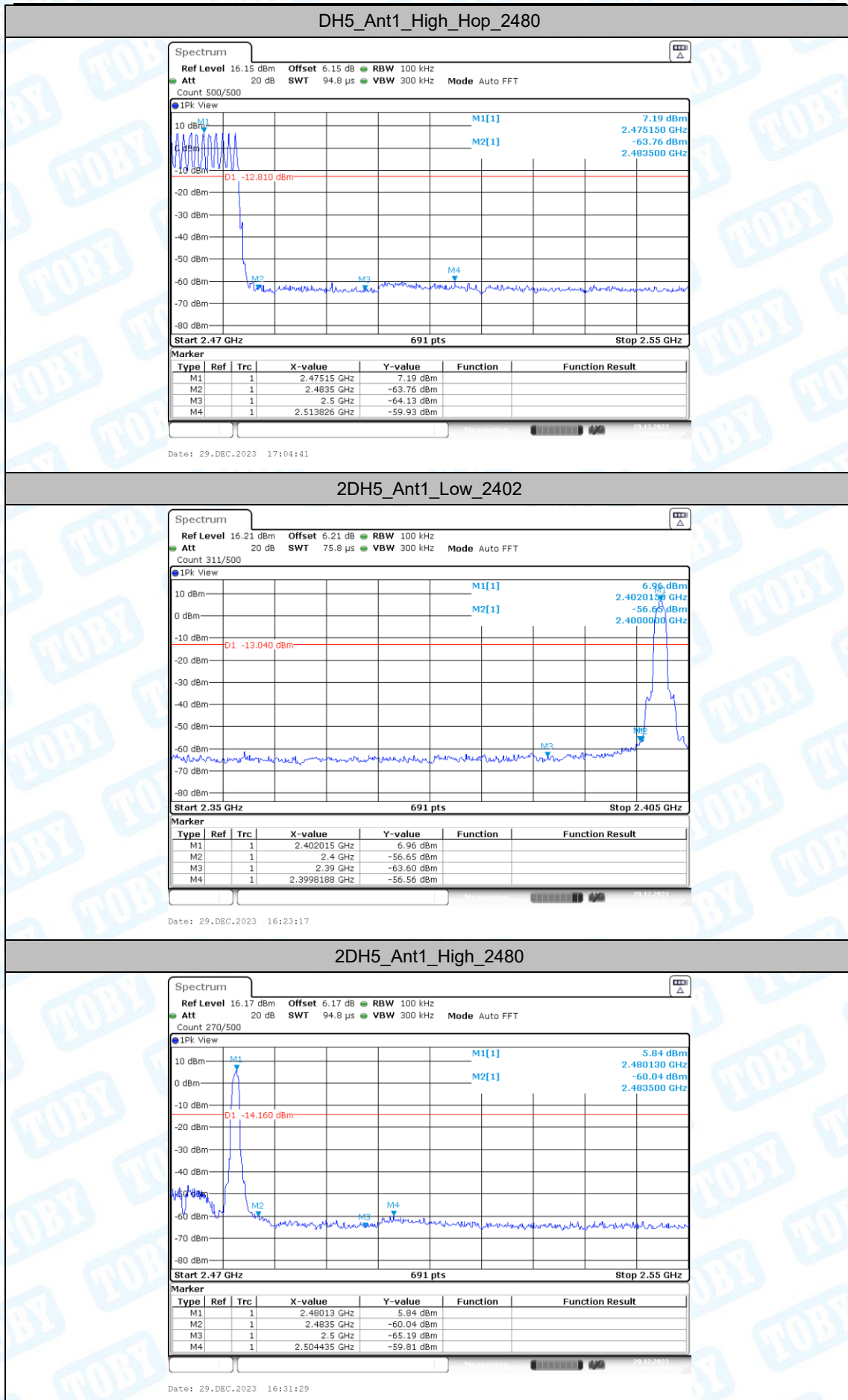
7. Band edge measurements

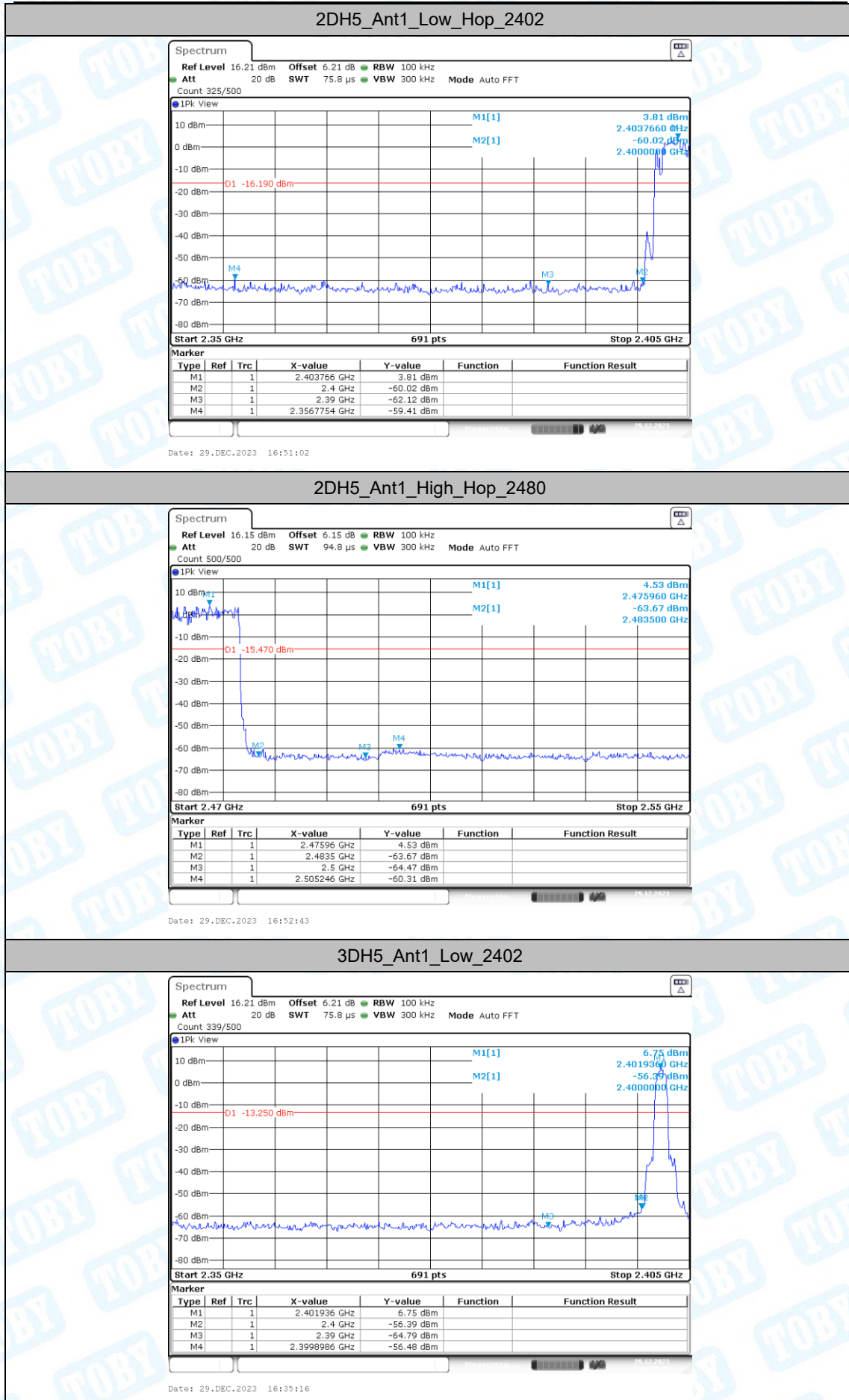
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.99	-57.65	≤-12.01	PASS
		High	2480	7.82	-59.54	≤-12.18	PASS
		Low	Hop_2402	7.41	-57.85	≤-12.59	PASS
		High	Hop_2480	7.19	-59.93	≤-12.81	PASS
2DH5	Ant1	Low	2402	6.96	-56.56	≤-13.04	PASS
		High	2480	5.84	-59.81	≤-14.16	PASS
		Low	Hop_2402	3.81	-59.41	≤-16.19	PASS
		High	Hop_2480	4.53	-60.31	≤-15.47	PASS
3DH5	Ant1	Low	2402	6.75	-56.48	≤-13.25	PASS
		High	2480	6.15	-60.48	≤-13.85	PASS
		Low	Hop_2402	3.88	-60	≤-16.12	PASS
		High	Hop_2480	4.26	-60.29	≤-15.74	PASS

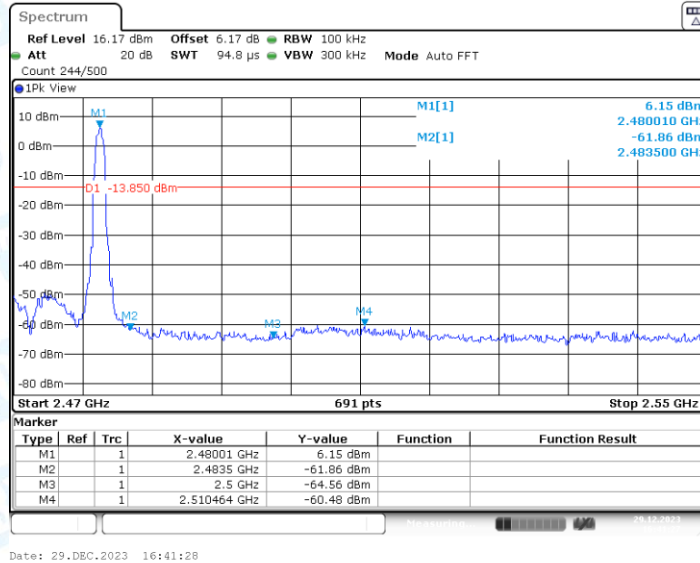
7.2. Test Graphs



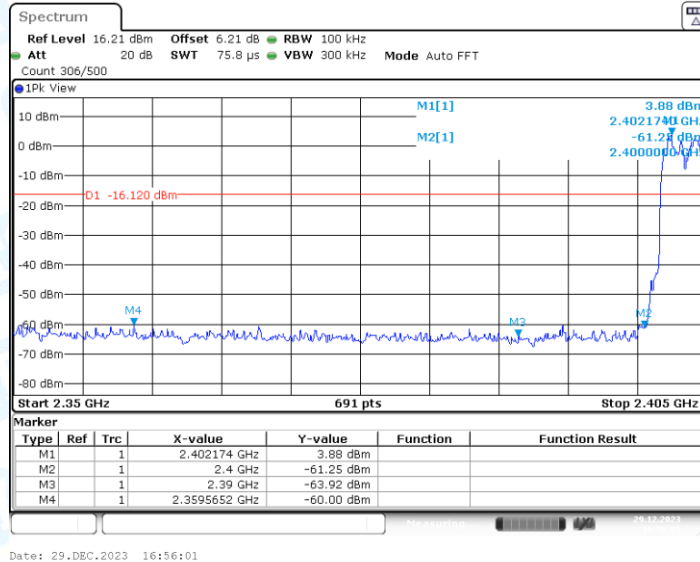




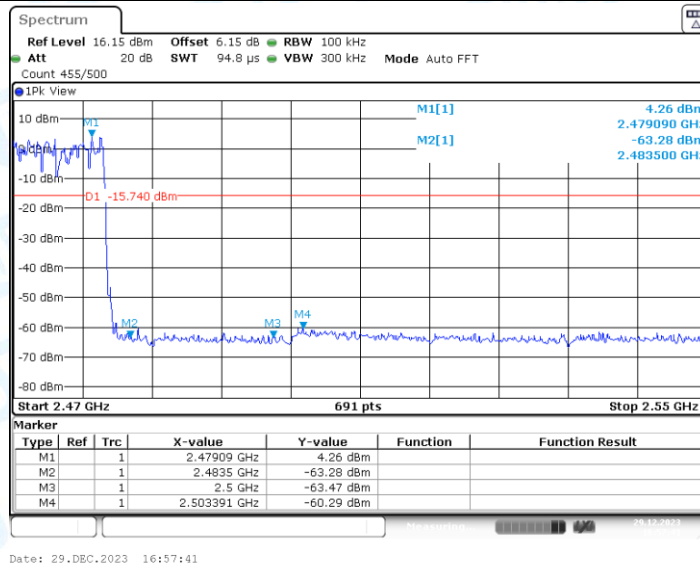
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

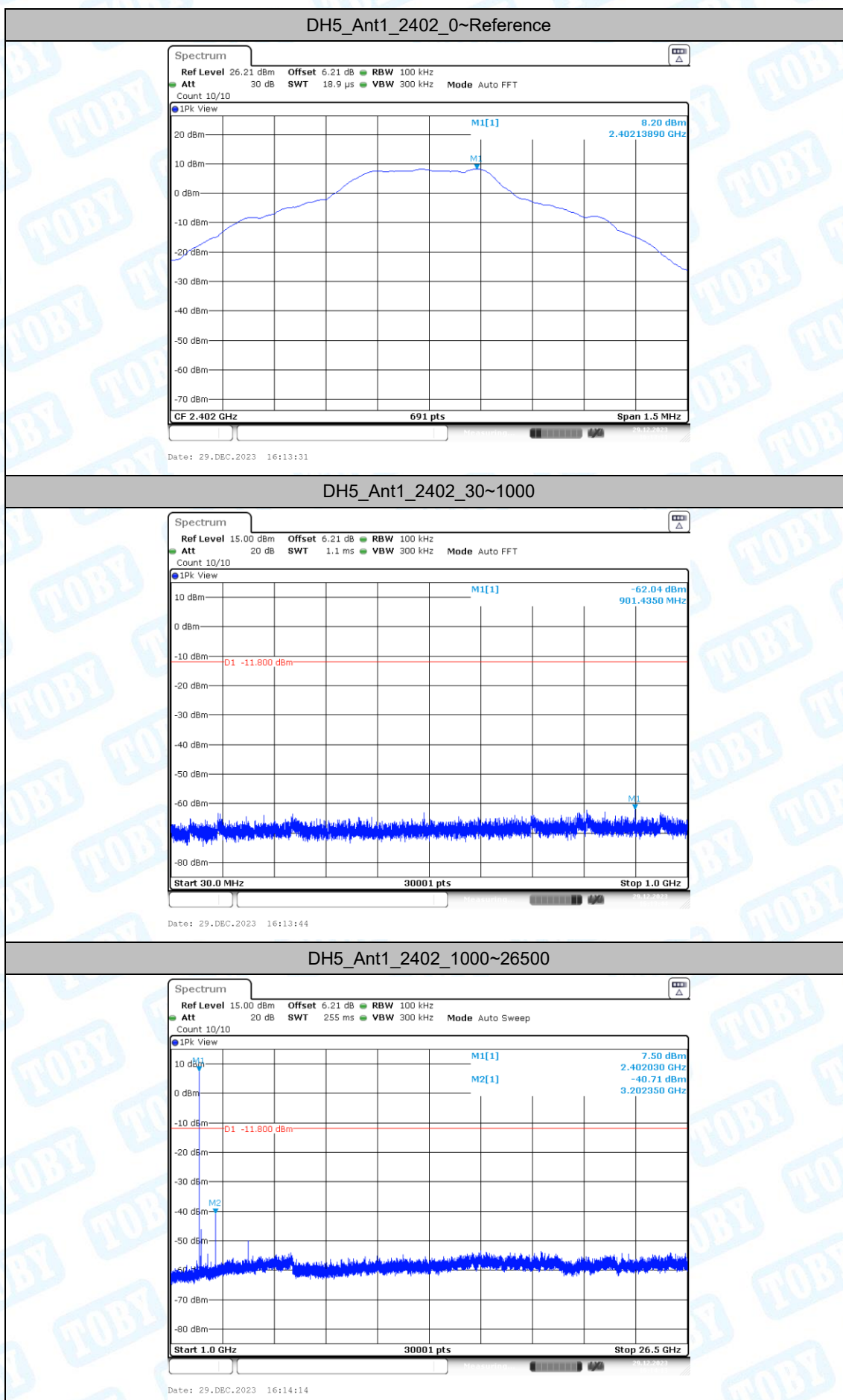


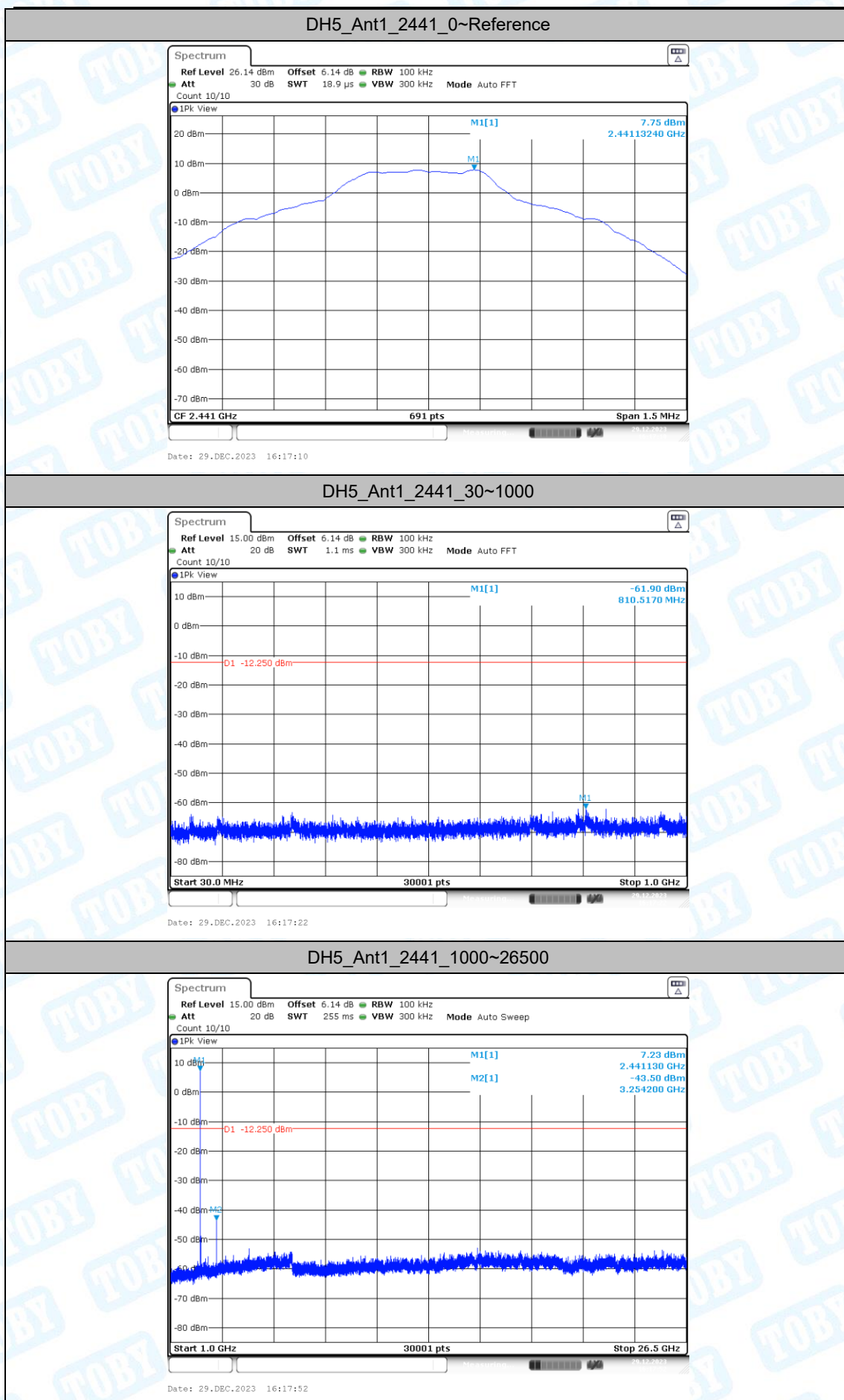
8. Conducted Spurious Emission

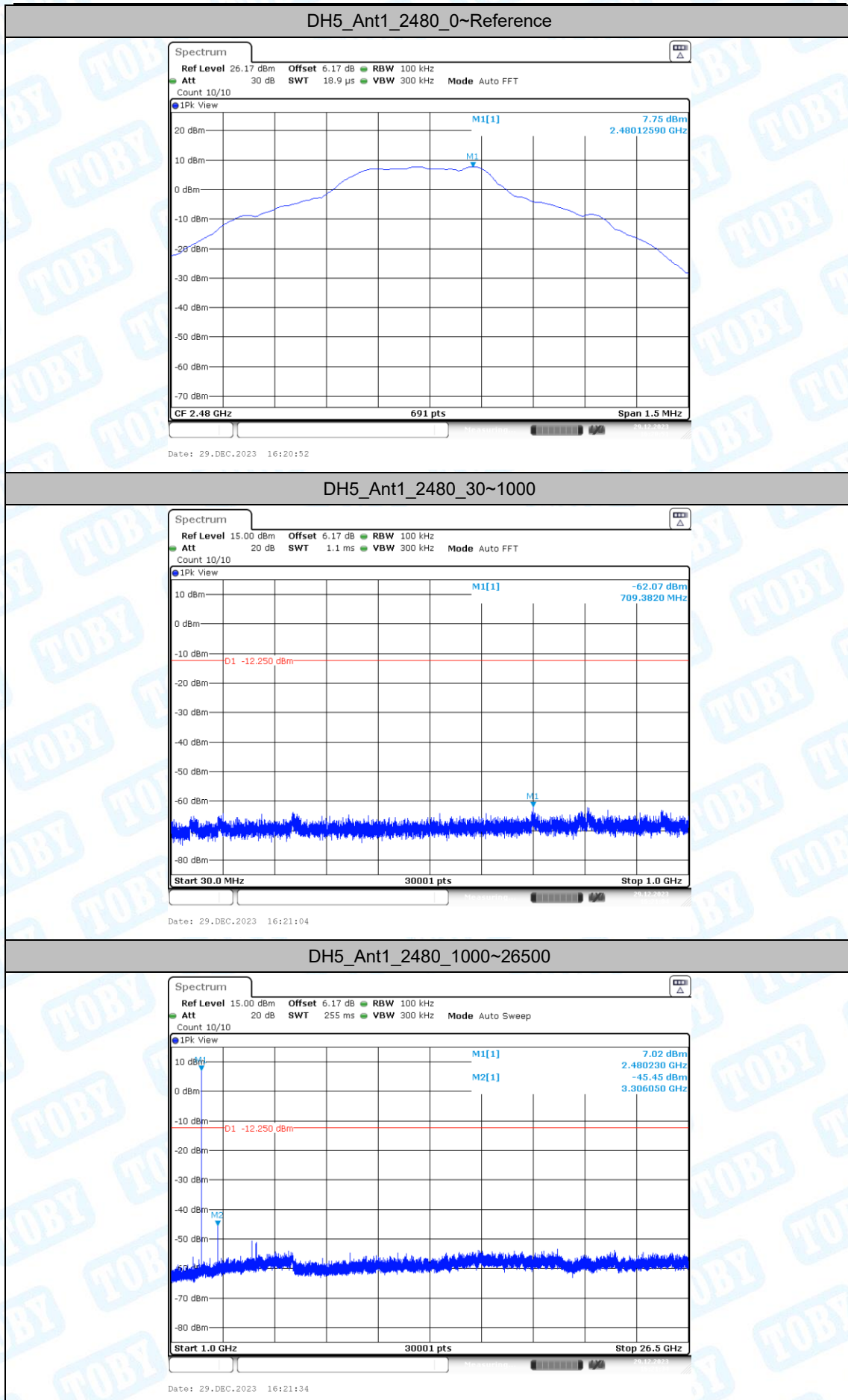
8.1. Test Result

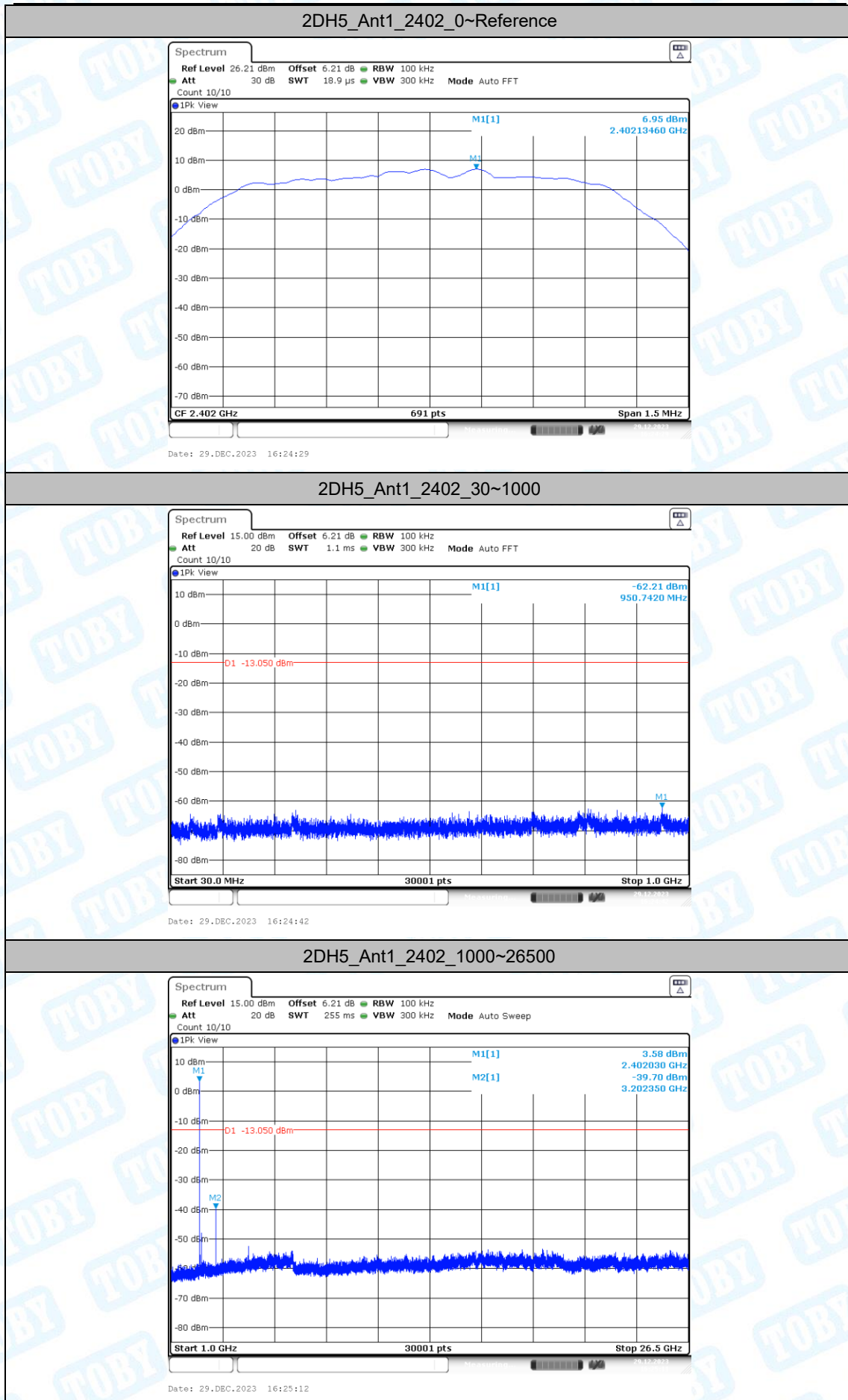
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	8.20	8.20	---	PASS
			30~1000	8.20	-62.04	≤-11.8	PASS
			1000~26500	8.20	-40.71	≤-11.8	PASS
		2441	Reference	7.75	7.75	---	PASS
			30~1000	7.75	-61.9	≤-12.25	PASS
			1000~26500	7.75	-43.5	≤-12.25	PASS
		2480	Reference	7.75	7.75	---	PASS
			30~1000	7.75	-62.07	≤-12.25	PASS
			1000~26500	7.75	-45.45	≤-12.25	PASS
2DH5	Ant1	2402	Reference	6.95	6.95	---	PASS
			30~1000	6.95	-62.21	≤-13.05	PASS
			1000~26500	6.95	-39.7	≤-13.05	PASS
		2441	Reference	5.96	5.96	---	PASS
			30~1000	5.96	-61.7	≤-14.04	PASS
			1000~26500	5.96	-41.94	≤-14.04	PASS
		2480	Reference	6.06	6.06	---	PASS
			30~1000	6.06	-61.43	≤-13.94	PASS
			1000~26500	6.06	-43.11	≤-13.94	PASS
3DH5	Ant1	2402	Reference	7.11	7.11	---	PASS
			30~1000	7.11	-61.77	≤-12.89	PASS
			1000~26500	7.11	-39.29	≤-12.89	PASS
		2441	Reference	6.22	6.22	---	PASS
			30~1000	6.22	-62.53	≤-13.78	PASS
			1000~26500	6.22	-42.21	≤-13.78	PASS
		2480	Reference	6.12	6.12	---	PASS
			30~1000	6.12	-61.52	≤-13.88	PASS
			1000~26500	6.12	-43.01	≤-13.88	PASS

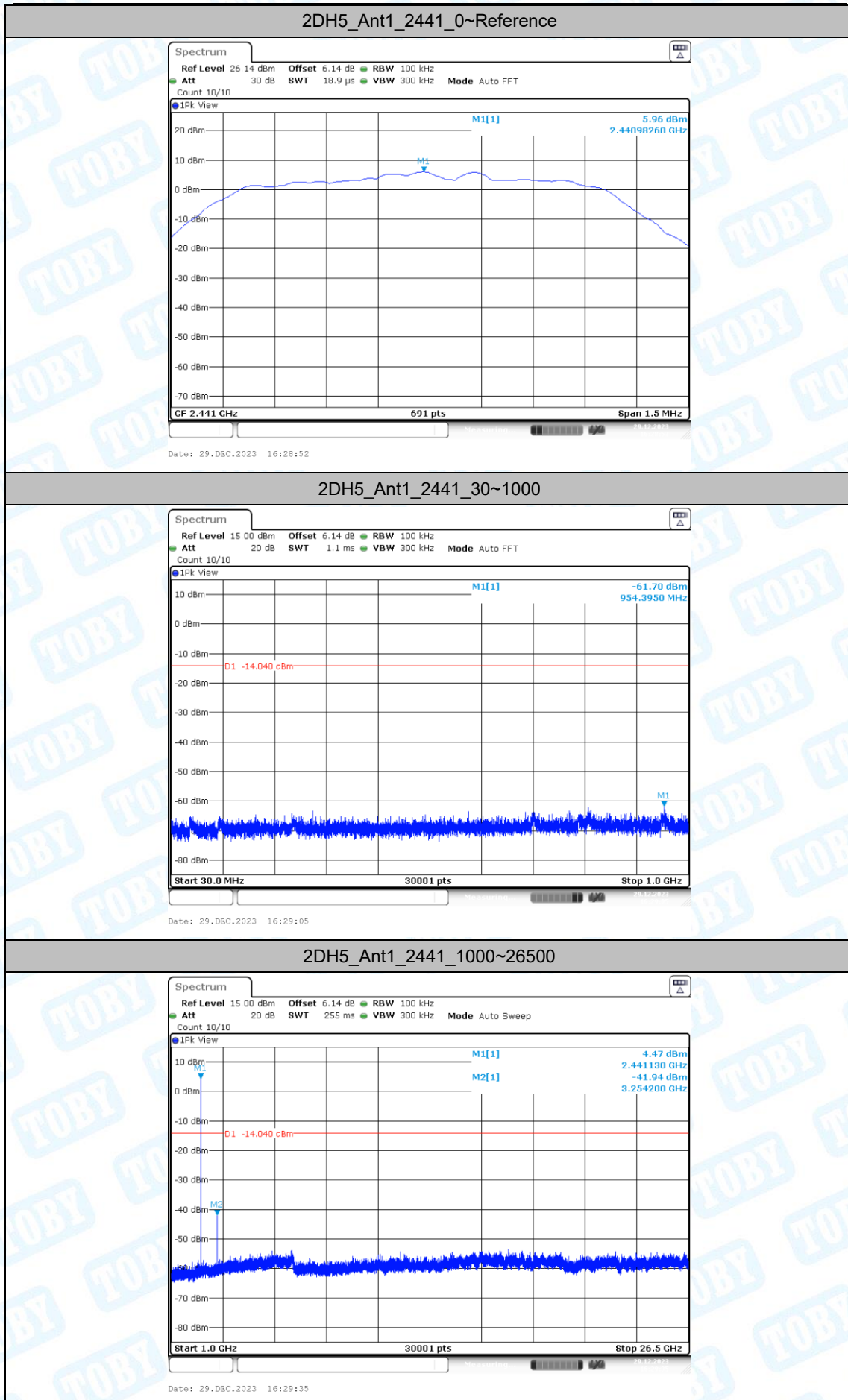
8.2. Test Graphs

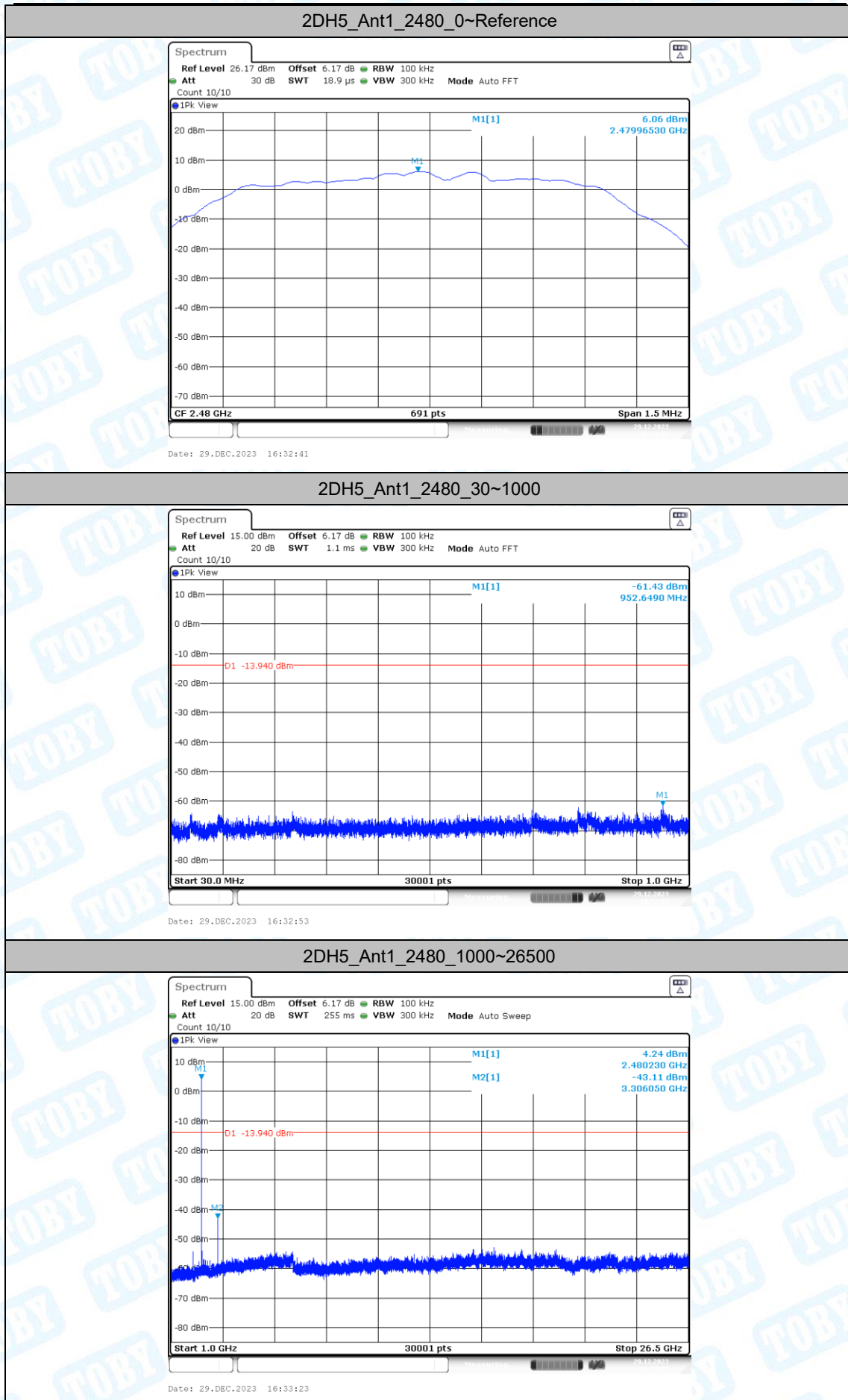


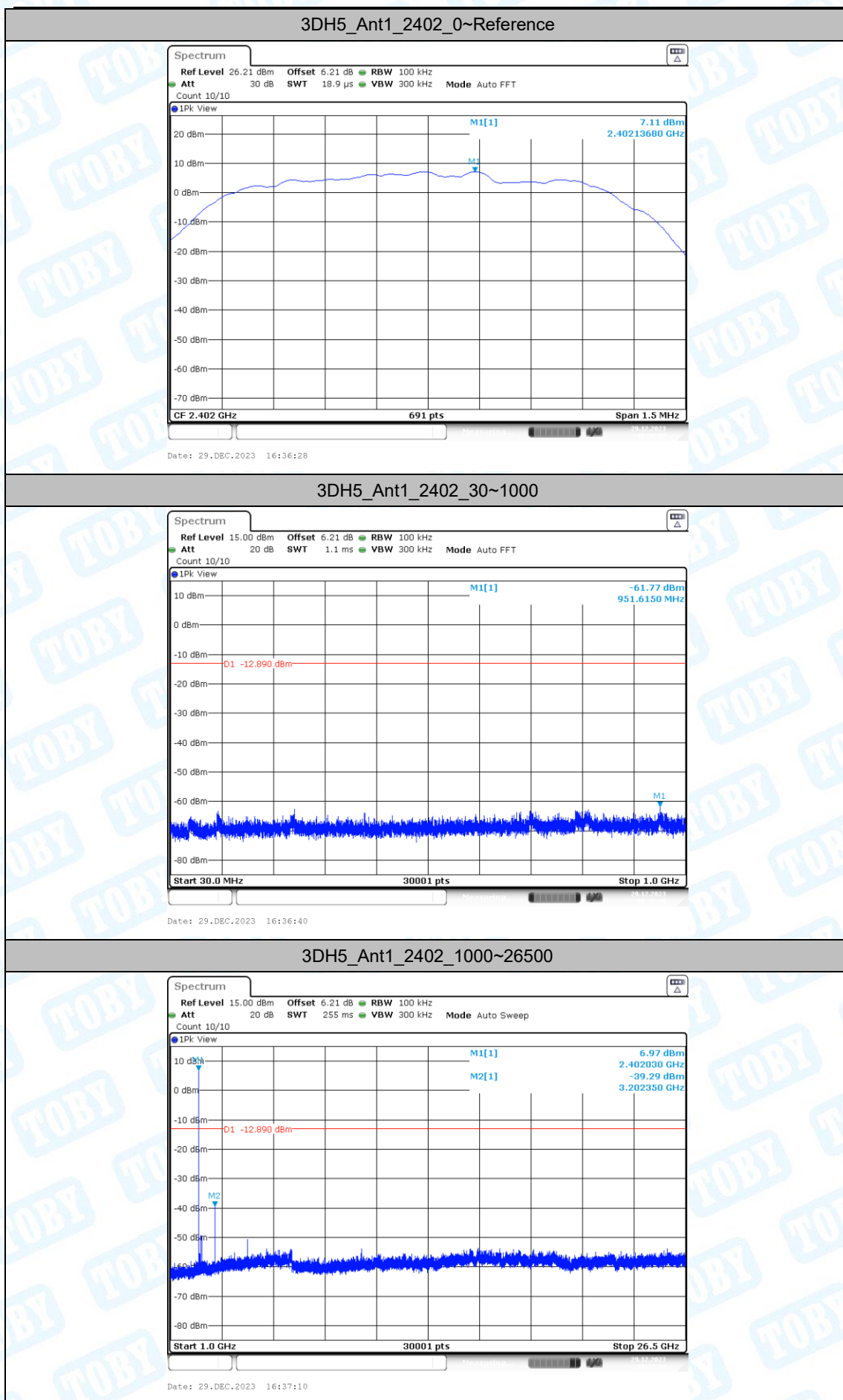


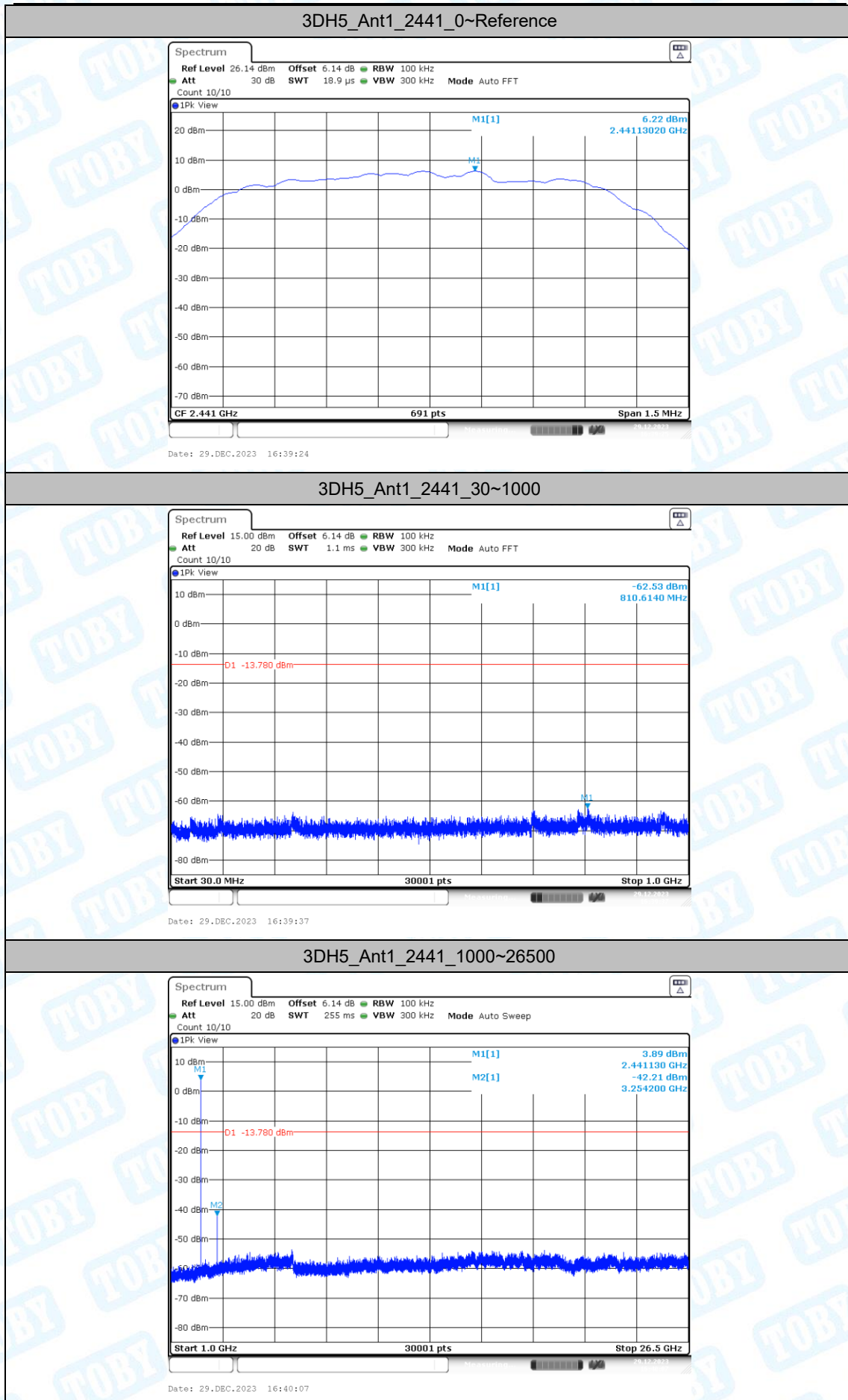


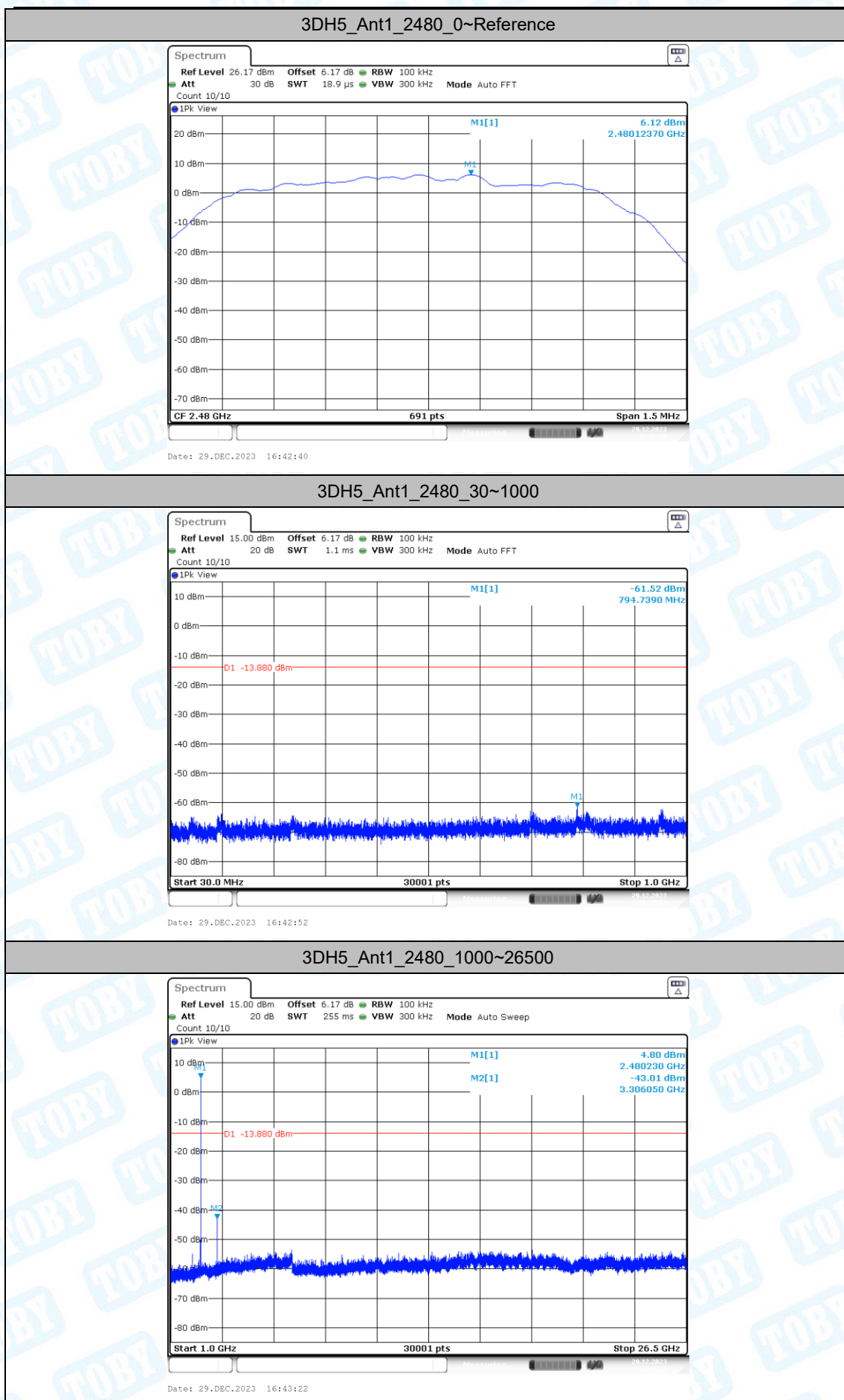










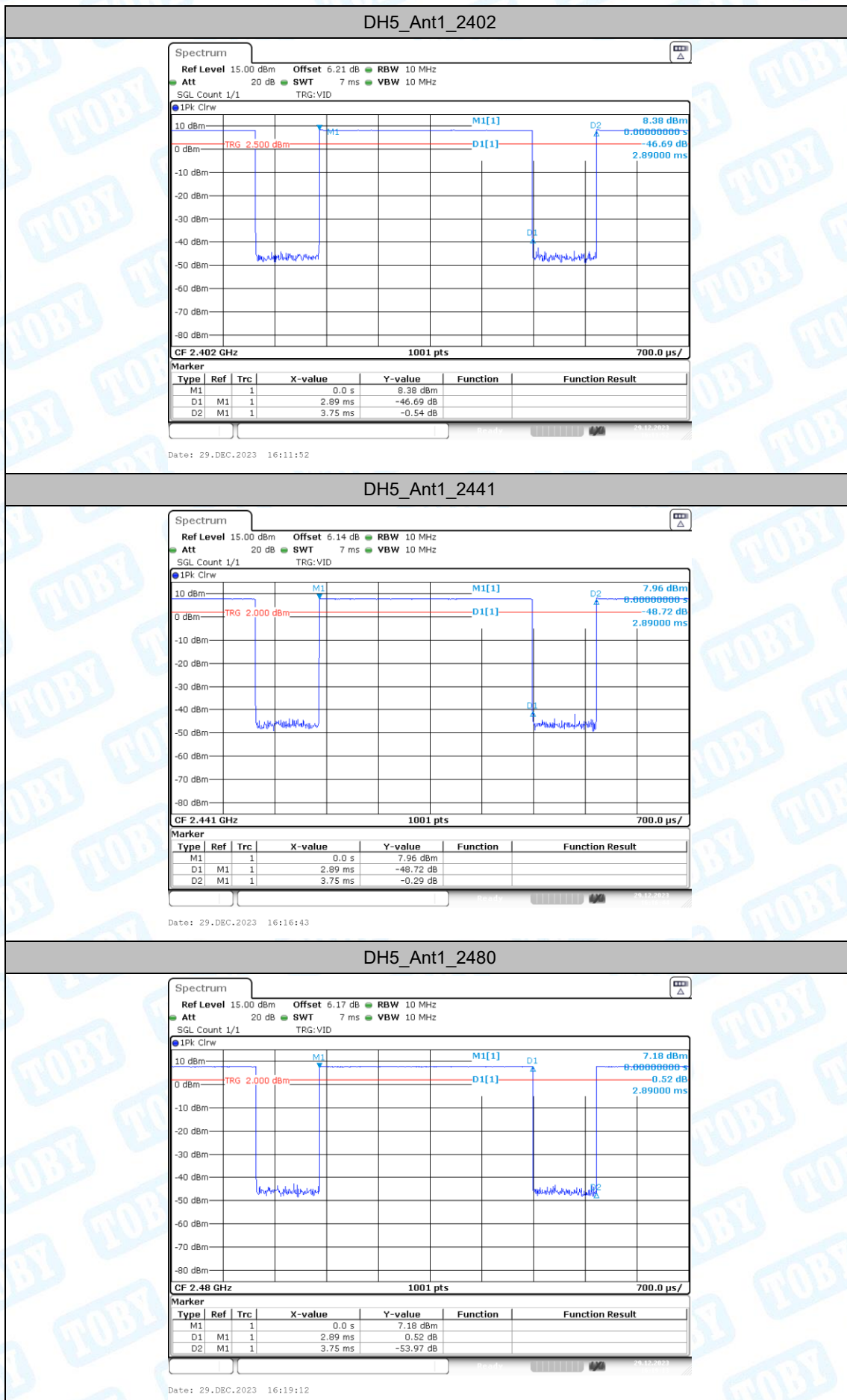


9. Duty Cycle

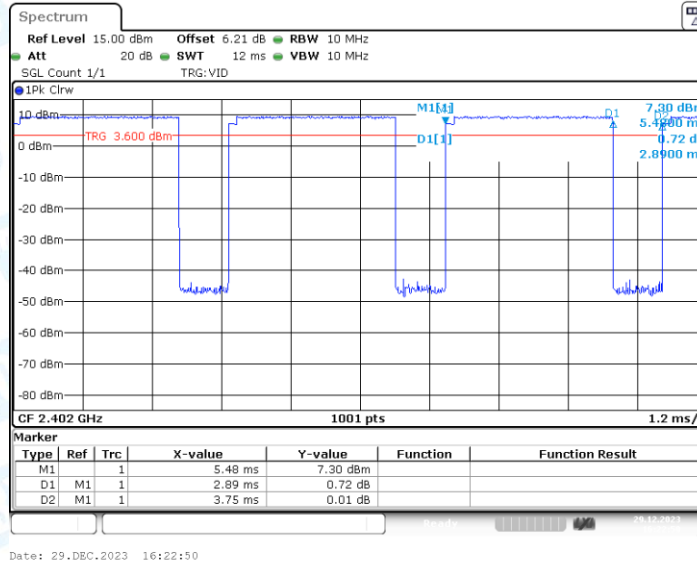
9.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [KHz]	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	0.35	---
		2441	2.89	3.75	77.07	0.35	---
		2480	2.89	3.75	77.07	0.35	---
2DH5	Ant1	2402	2.89	3.75	77.07	0.35	---
		2441	2.89	3.75	77.07	0.35	---
		2480	2.88	3.74	77.01	0.35	---
3DH5	Ant1	2402	2.89	3.75	77.07	0.35	---
		2441	2.89	3.75	77.07	0.35	---
		2480	2.89	3.75	77.07	0.35	---

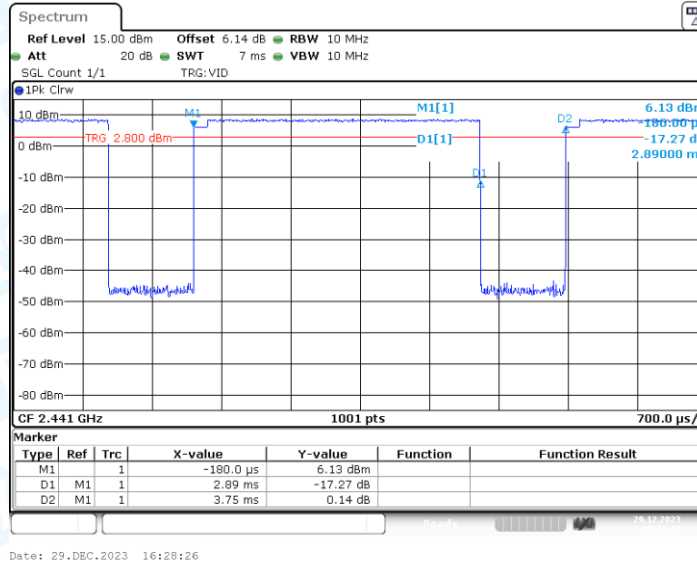
9.2.Test Graphs



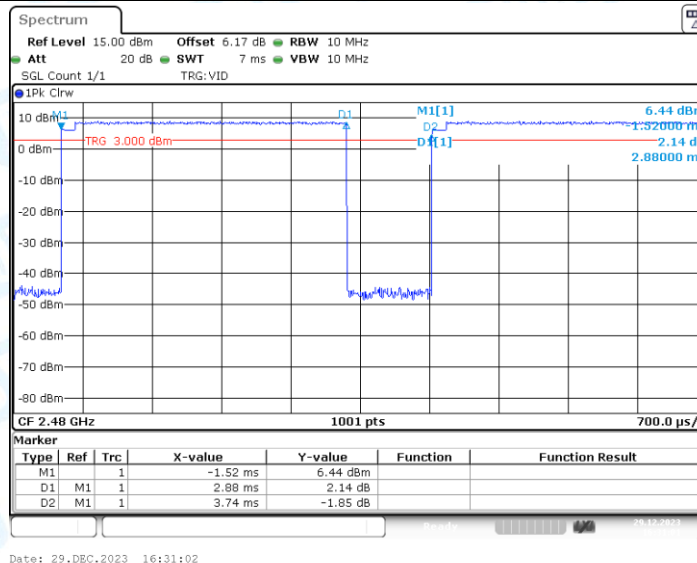
2DH5_Ant1_2402

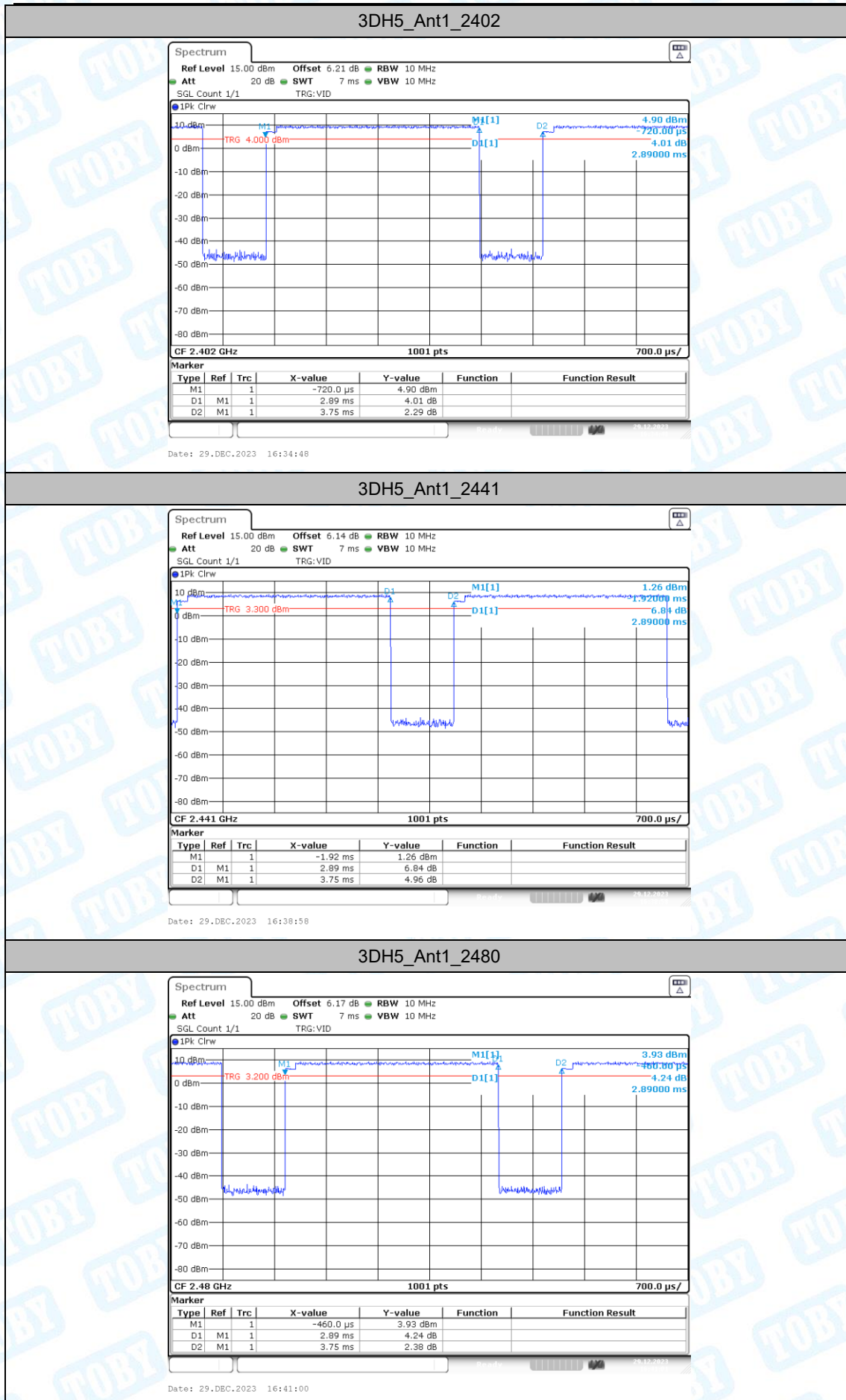


2DH5_Ant1_2441



2DH5_Ant1_2480





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