

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

General Description of EUT	
Product Name:	WIRELESS SPEAKER
Test Model:	miniBOOM 2
Sample ID:	RW-C-202209-0110-3-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202209-0110-3	

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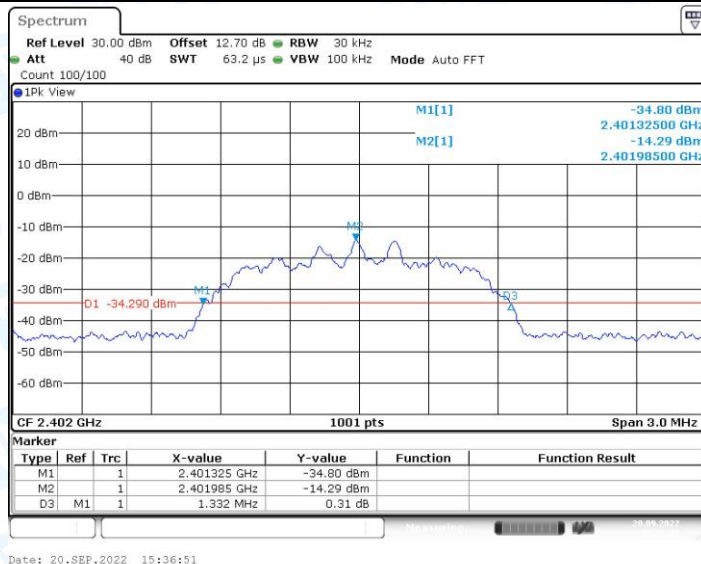
1. 20dB Emission Bandwidth

1.1. Test Result

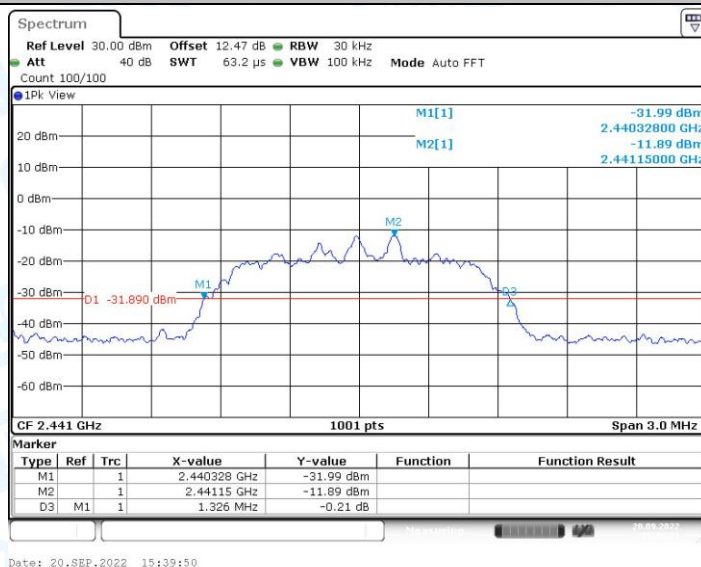
TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.96	---	---
		2441	0.97	---	---
		2480	0.95	---	---
2DH5	Ant1	2402	1.33	---	---
		2441	1.33	---	---
		2480	1.30	---	---
3DH5	Ant1	2402	1.32	---	---
		2441	1.30	---	---
		2480	1.30	---	---

1.2. Test Graphs

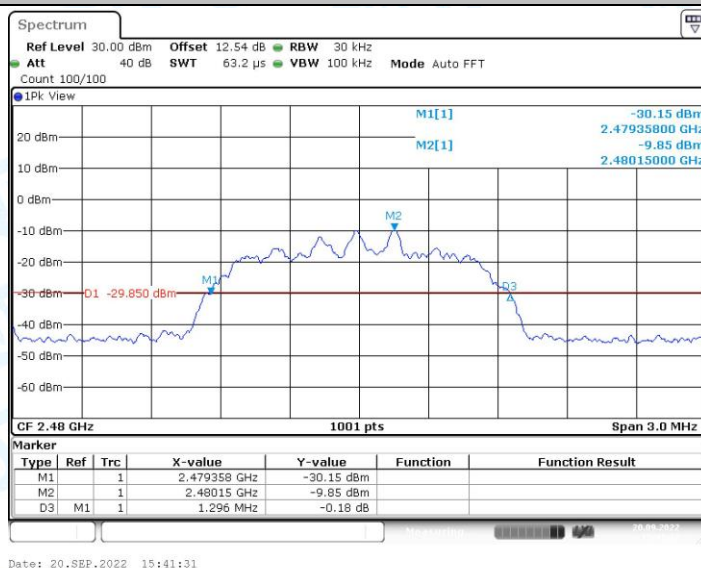




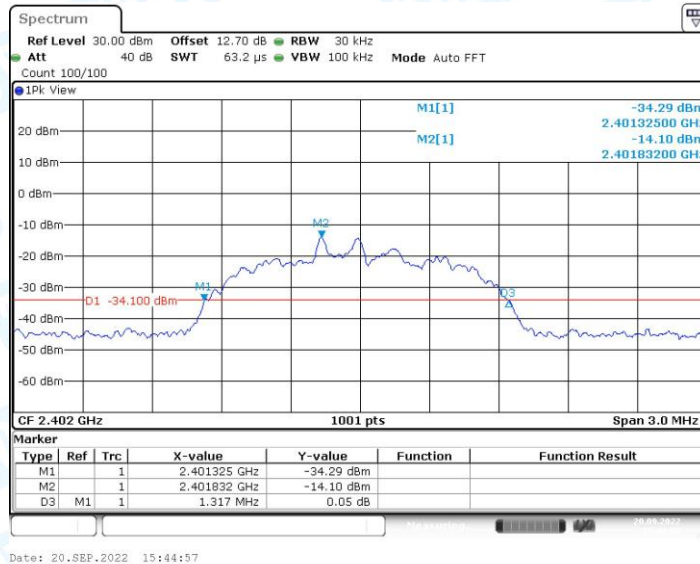
2DH5_Ant1_2441



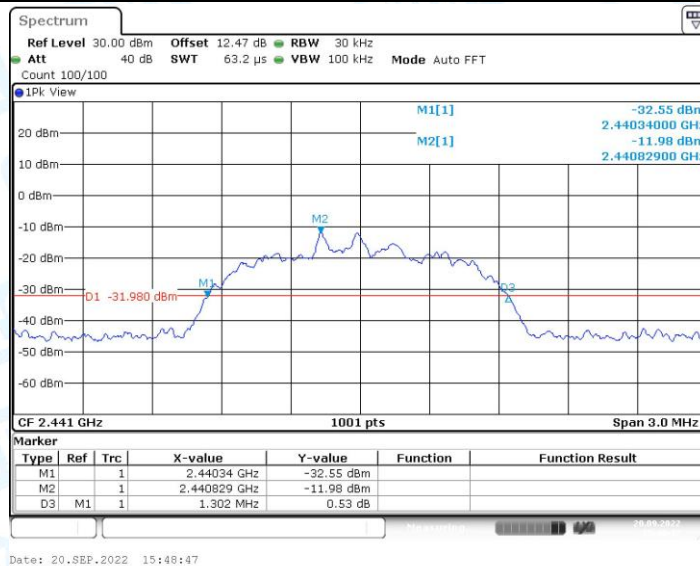
2DH5_Ant1_2480



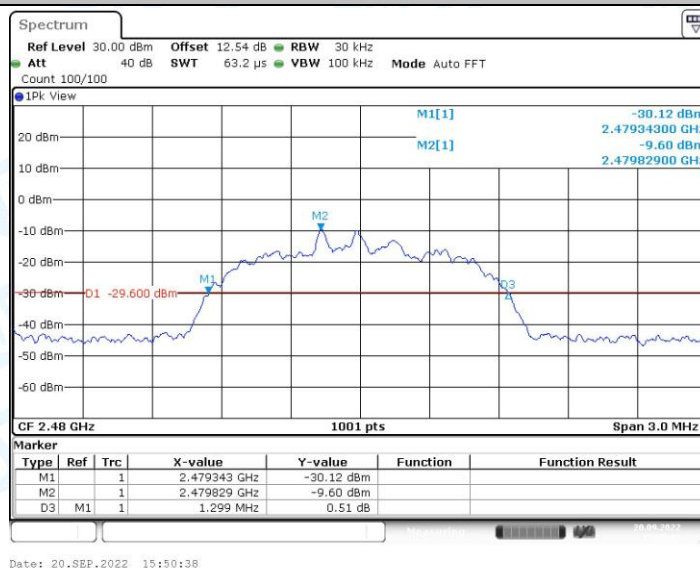
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

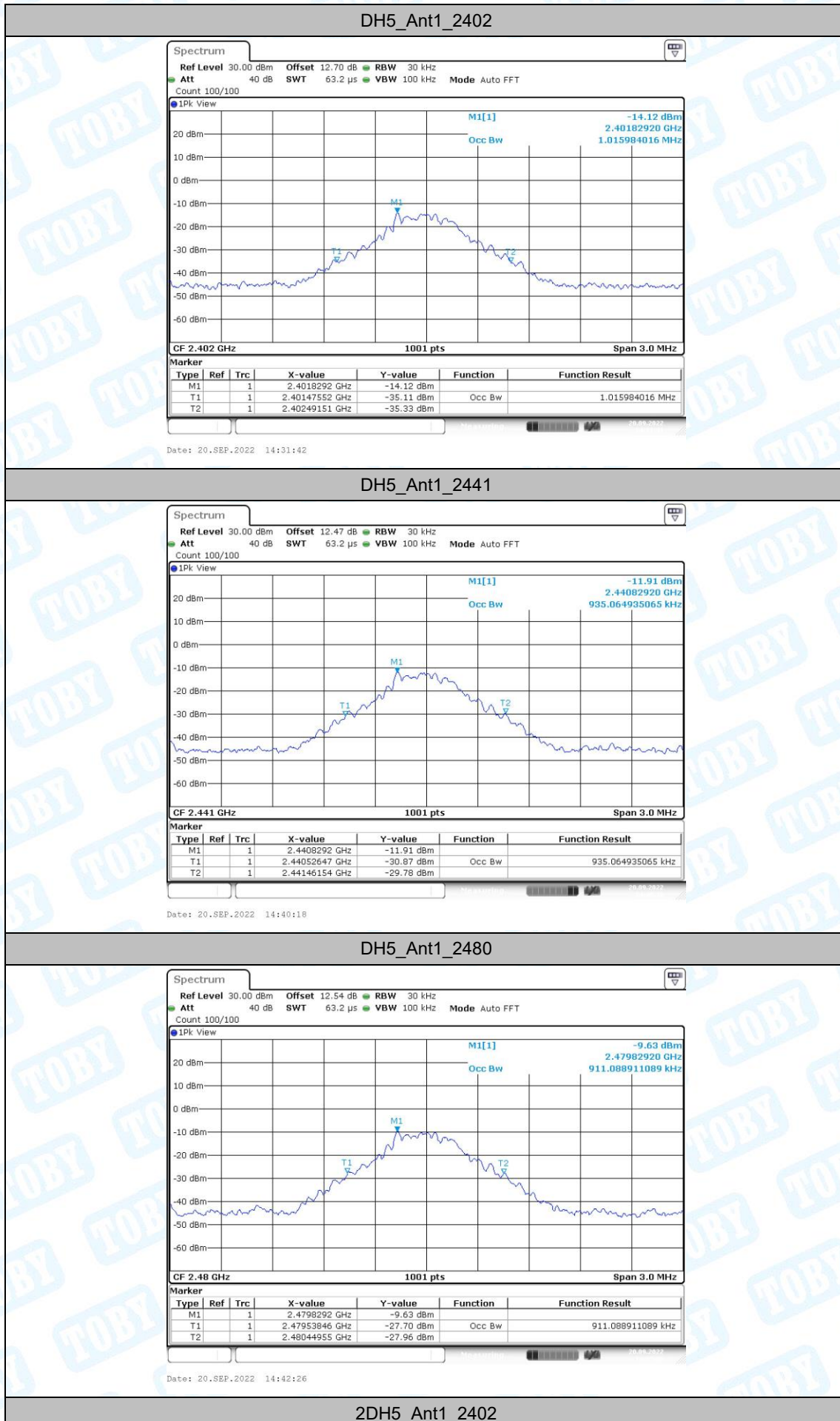


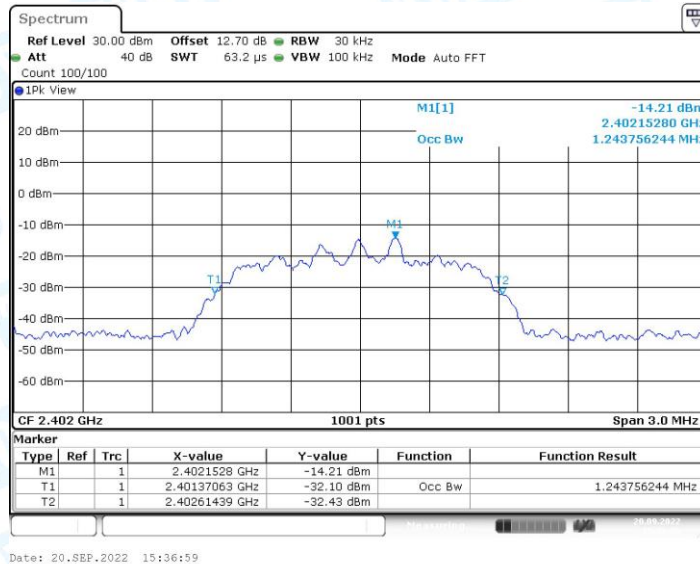
2. Occupied Channel Bandwidth

2.1. Test Result

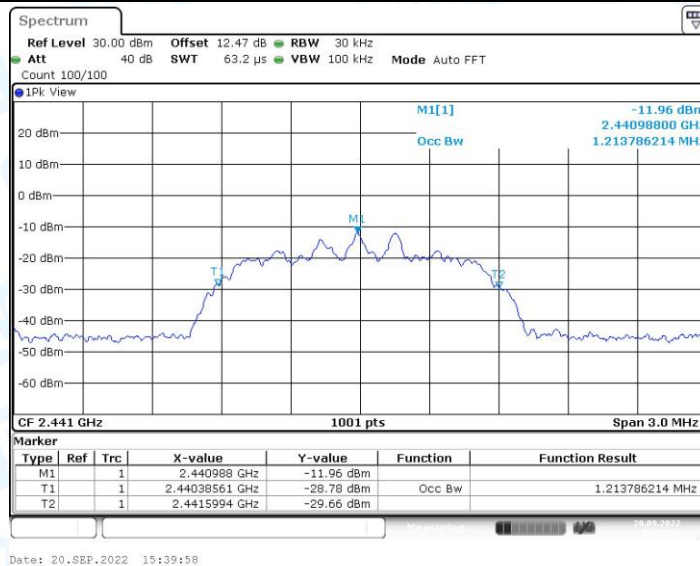
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.016	2401.4755	2402.4915	---	---
		2441	0.935	2440.5265	2441.4615	---	---
		2480	0.911	2479.5385	2480.4496	---	---
2DH5	Ant1	2402	1.244	2401.3706	2402.6144	---	---
		2441	1.214	2440.3856	2441.5994	---	---
		2480	1.199	2479.3946	2480.5934	---	---
3DH5	Ant1	2402	1.25	2401.3646	2402.6144	---	---
		2441	1.223	2440.3766	2441.5994	---	---
		2480	1.208	2479.3856	2480.5934	---	---

2.2. Test Graphs

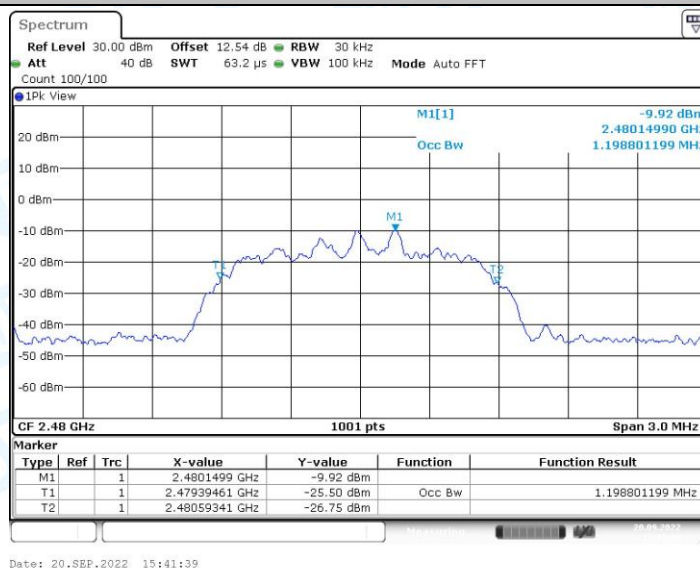




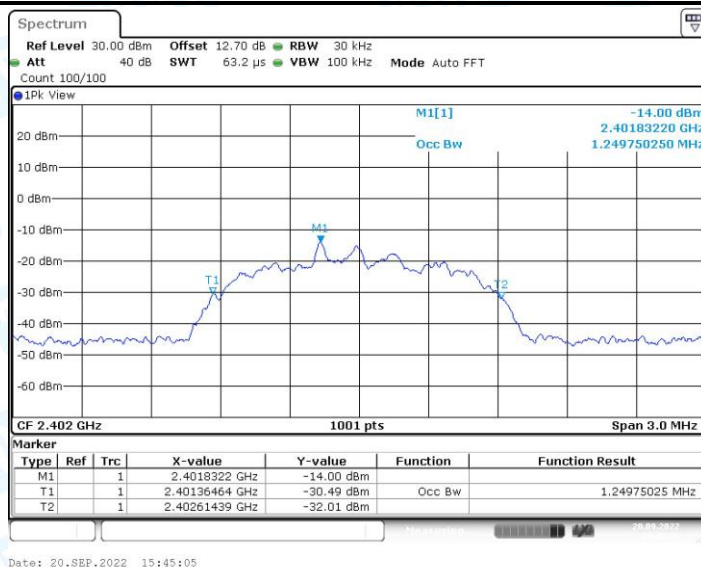
2DH5_Ant1_2441



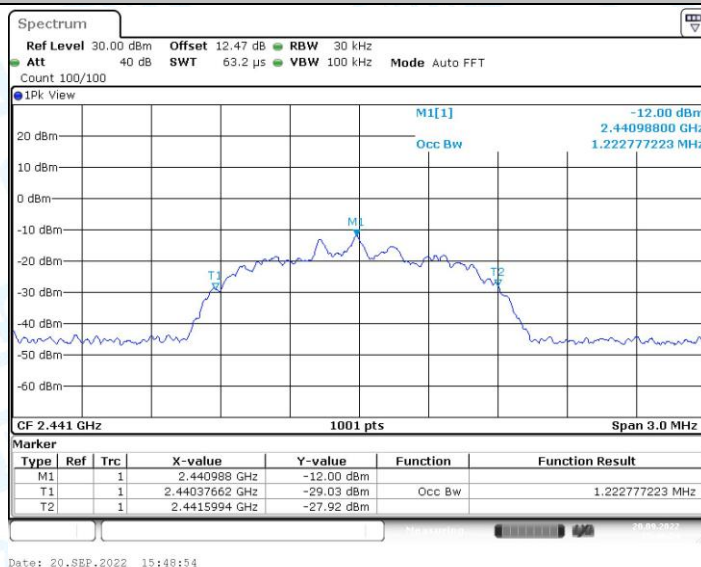
2DH5_Ant1_2480



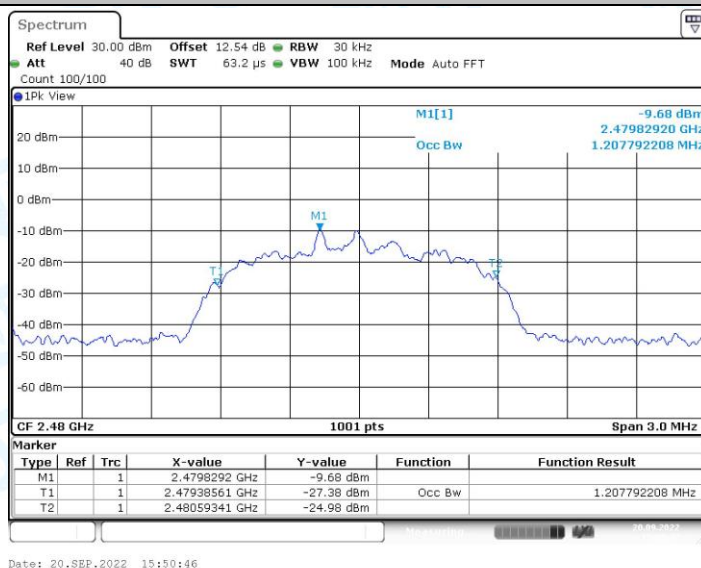
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



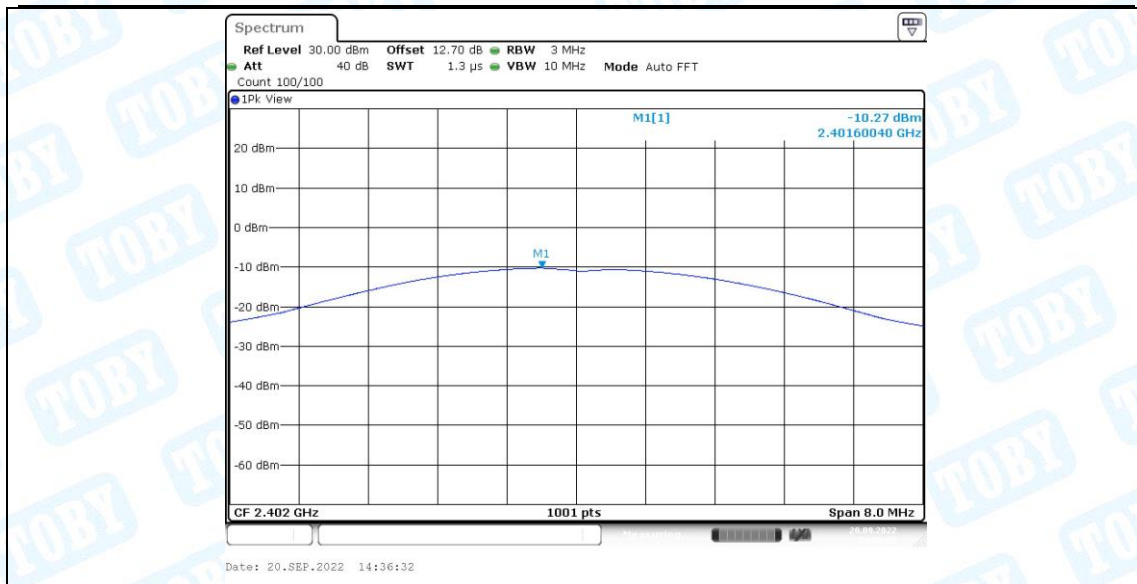
3. Maximum conducted output power

3.1. Test Result

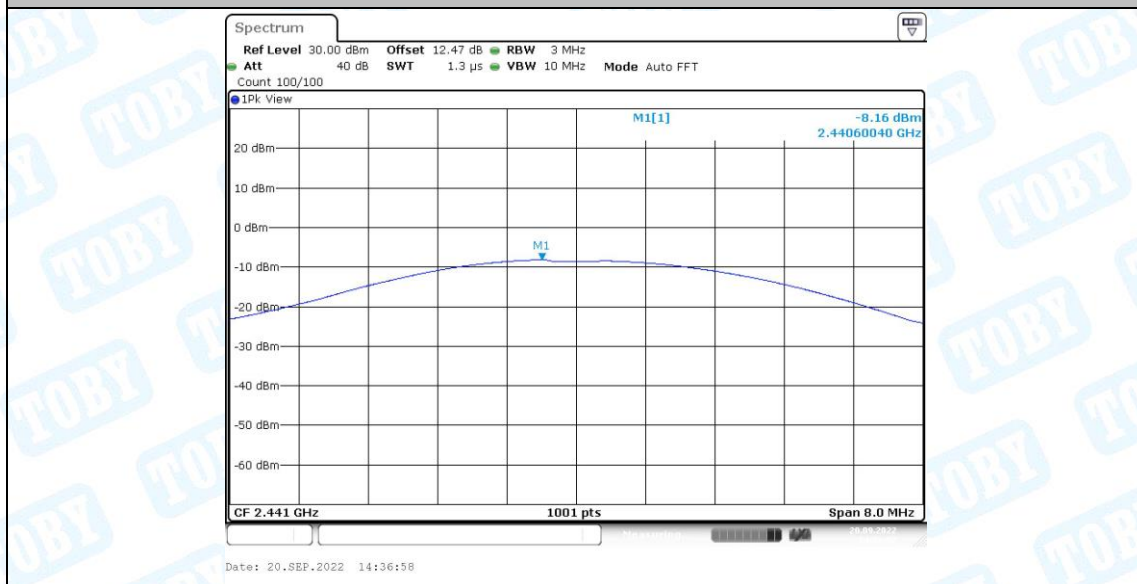
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-10.53	≤20.97	PASS
		2441	-8.27	≤20.97	PASS
		2480	-6.49	≤20.97	PASS
2DH5	Ant1	2402	-10.27	≤20.97	PASS
		2441	-8.16	≤20.97	PASS
		2480	-5.80	≤20.97	PASS
3DH5	Ant1	2402	-10.02	≤20.97	PASS
		2441	-8.08	≤20.97	PASS
		2480	-5.88	≤20.97	PASS

3.2.Test Graphs

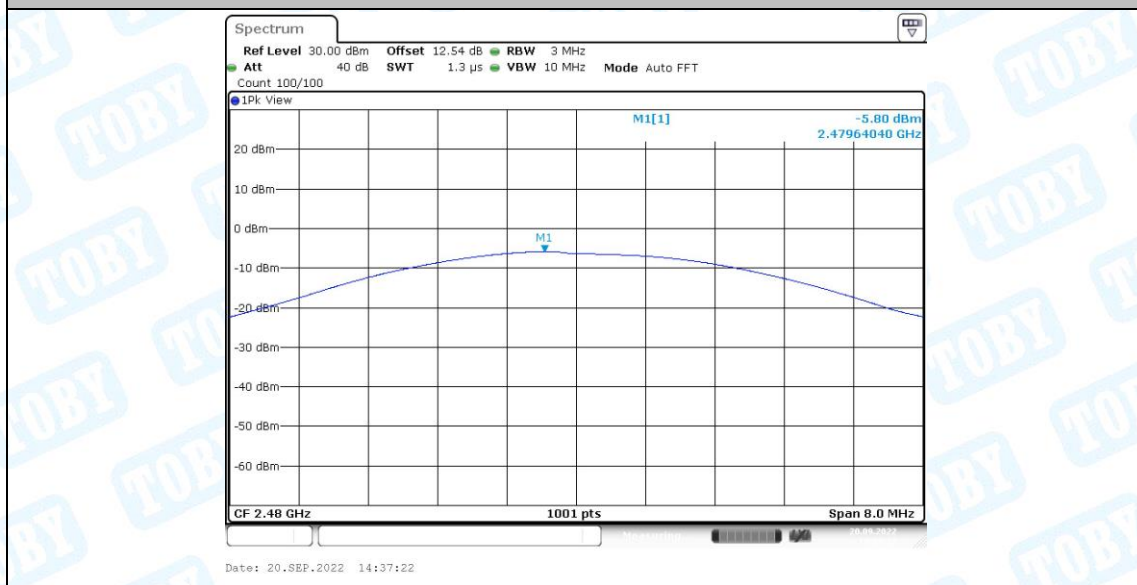




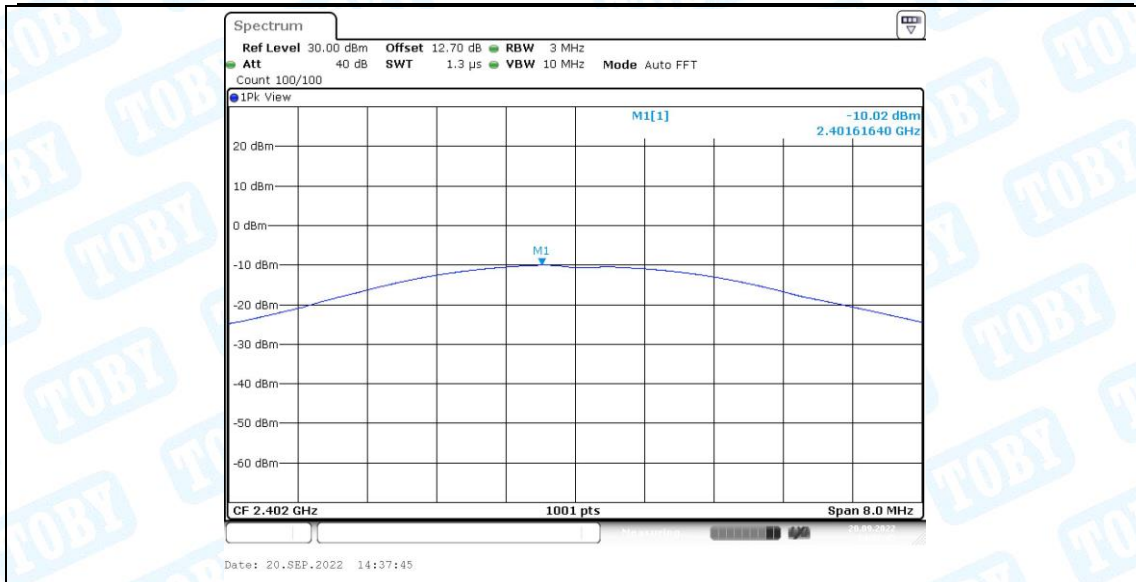
2DH5_Ant1_2441



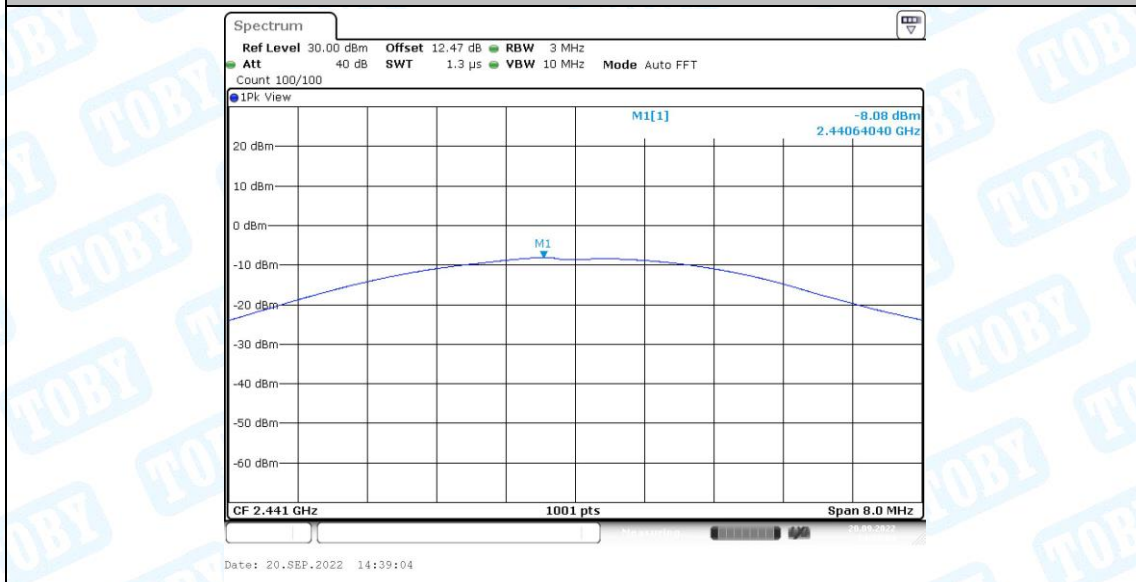
2DH5_Ant1_2480



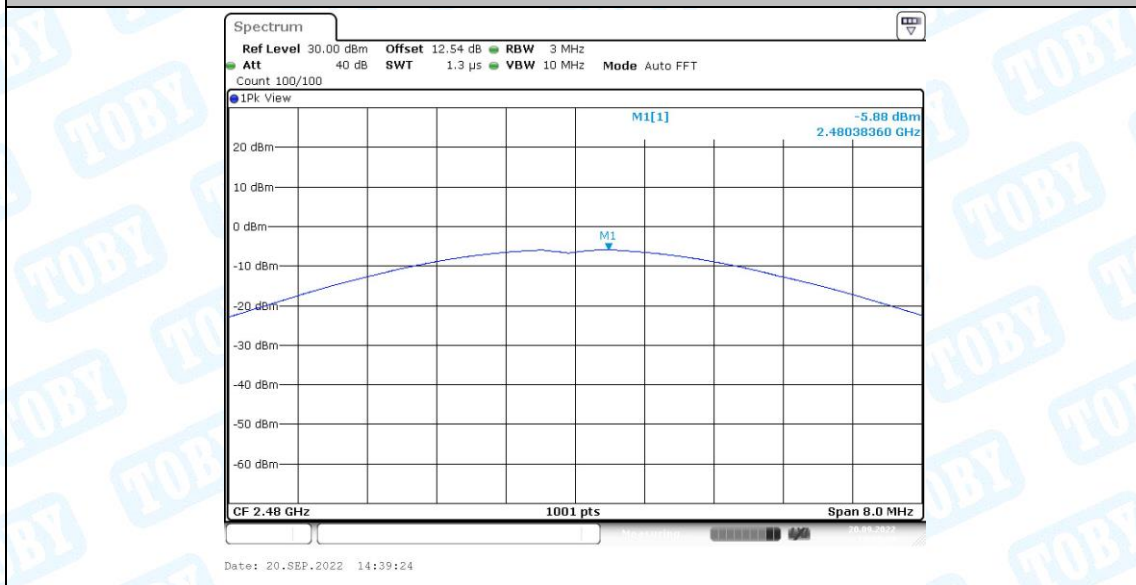
3DH5_Ant1_2402



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	≥ 0.970	PASS
2DH5	Ant1	Hop	1.203	≥ 0.887	PASS
3DH5	Ant1	Hop	0.997	≥ 0.880	PASS

4.2.Test Graphs



5. Number of hopping channels

5.1. 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

5.2.Test Graphs

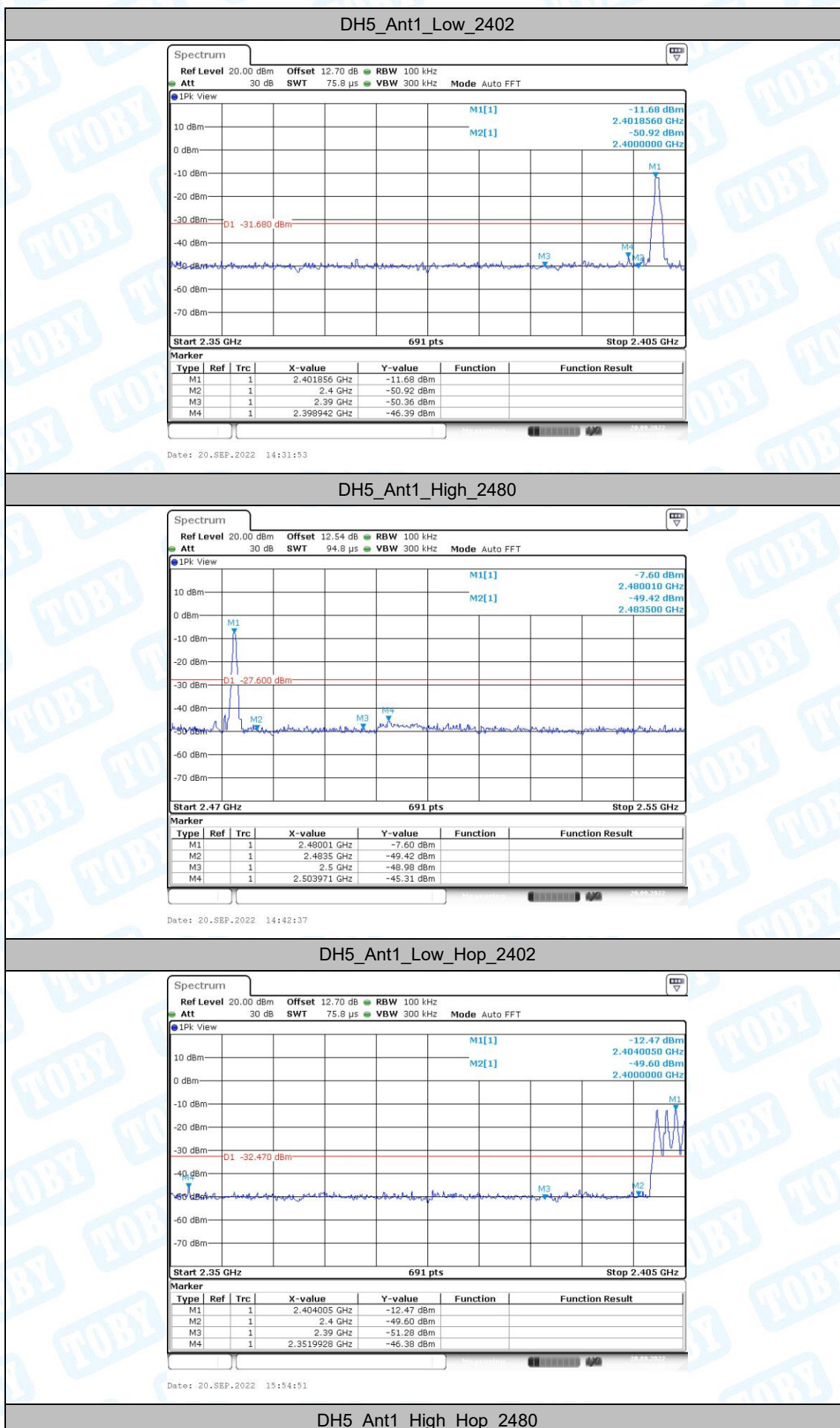


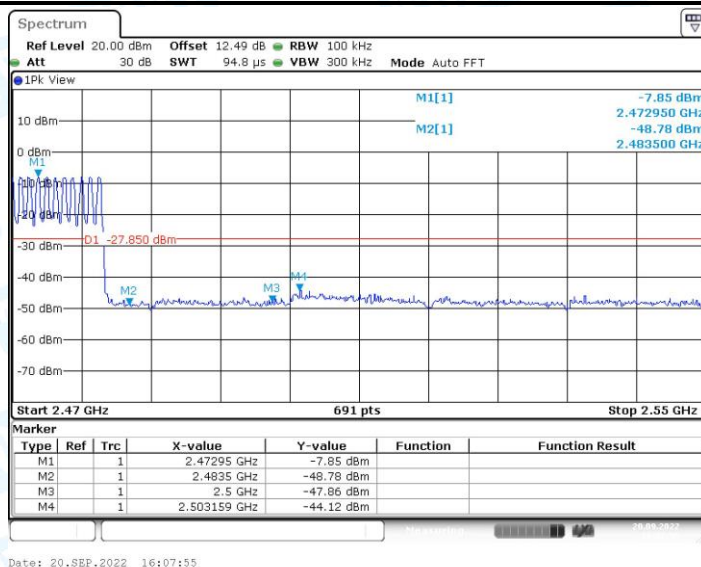
6. Band edge measurements

6.1. Test Result

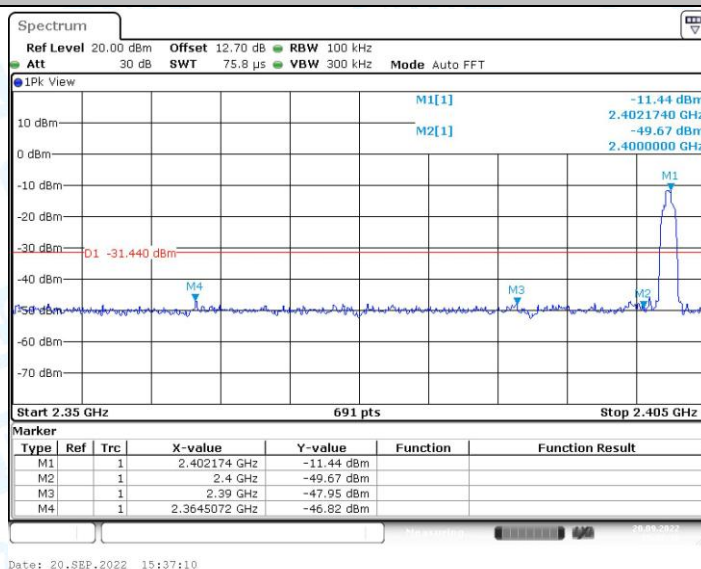
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-11.68	-46.39	≤ -31.68	PASS
		High	2480	-7.60	-45.31	≤ -27.6	PASS
		Low	Hop_2402	-12.47	-46.38	≤ -32.47	PASS
		High	Hop_2480	-7.85	-44.12	≤ -27.85	PASS
2DH5	Ant1	Low	2402	-11.44	-46.82	≤ -31.44	PASS
		High	2480	-7.18	-45.52	≤ -27.18	PASS
		Low	Hop_2402	-13.56	-47.9	≤ -33.56	PASS
		High	Hop_2480	-8.14	-45.37	≤ -28.14	PASS
3DH5	Ant1	Low	2402	-11.38	-46.73	≤ -31.38	PASS
		High	2480	-7.13	-45.24	≤ -27.13	PASS
		Low	Hop_2402	-12.62	-47.59	≤ -32.62	PASS
		High	Hop_2480	-9.48	-45.49	≤ -29.48	PASS

6.2. Test Graphs

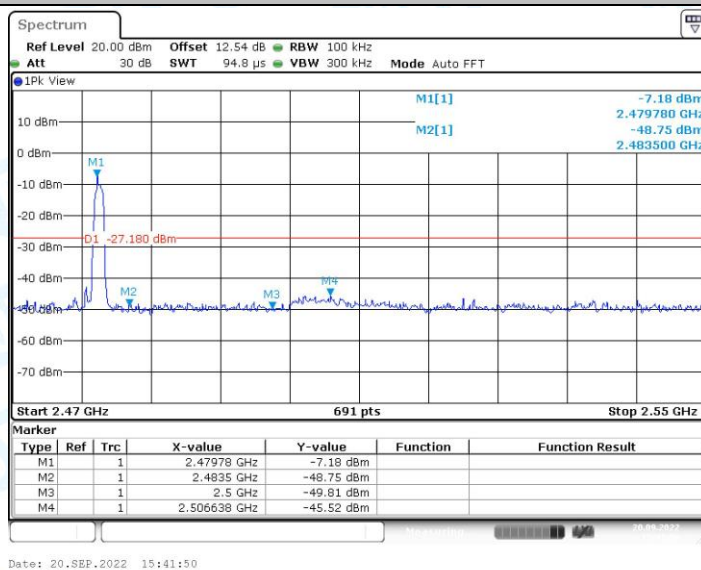




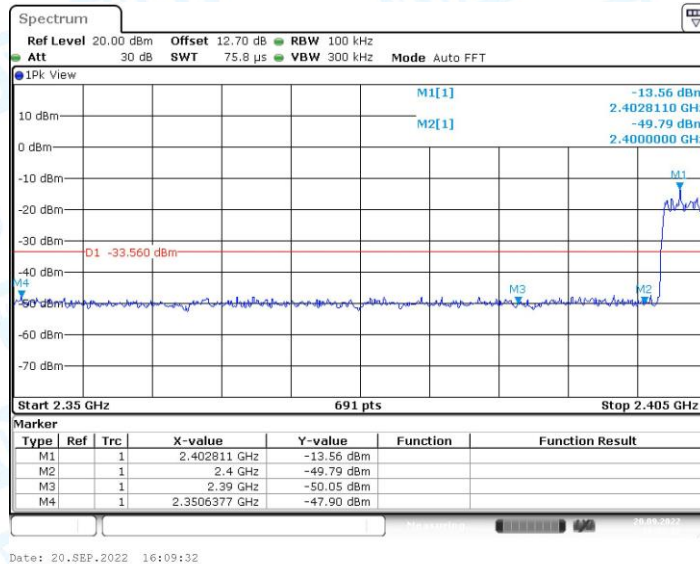
2DH5_Ant1_Low_2402



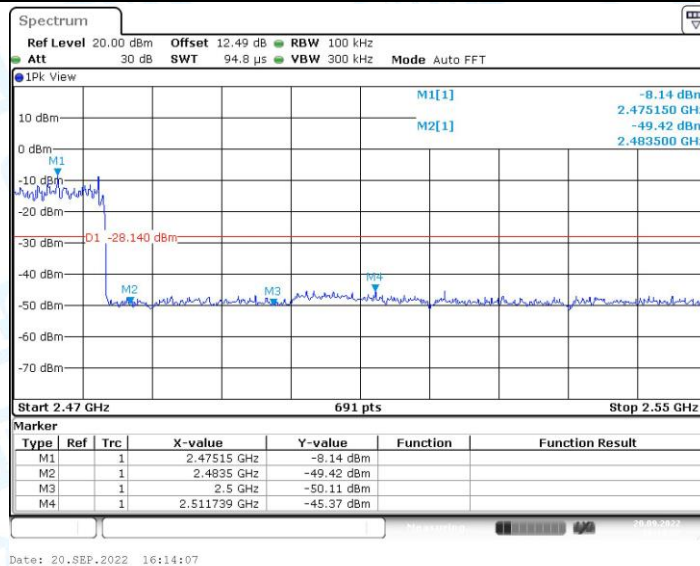
2DH5_Ant1_High_2480



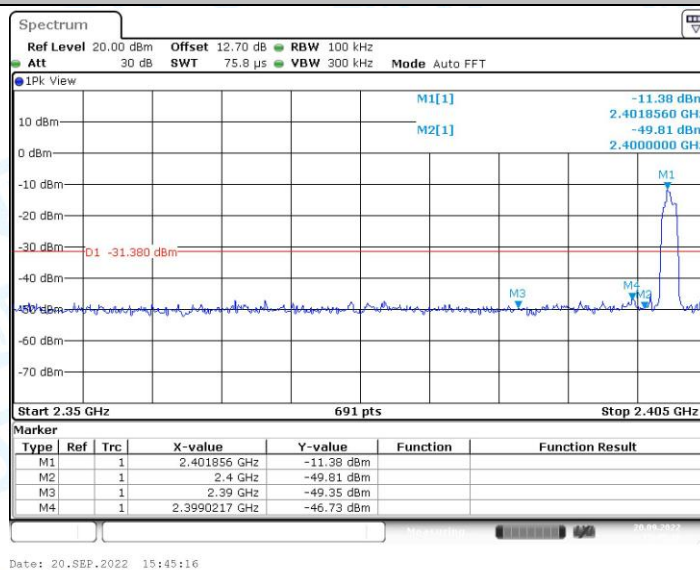
2DH5_Ant1_Low_Hop_2402



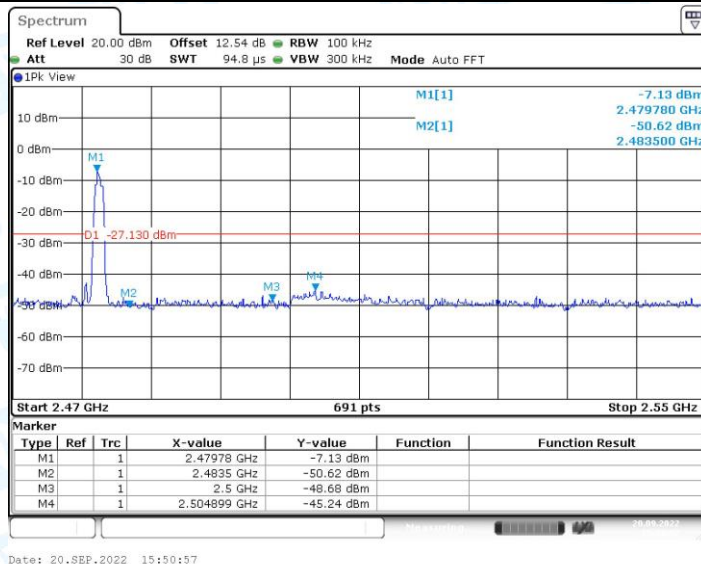
2DH5_Ant1_High_Hop_2480



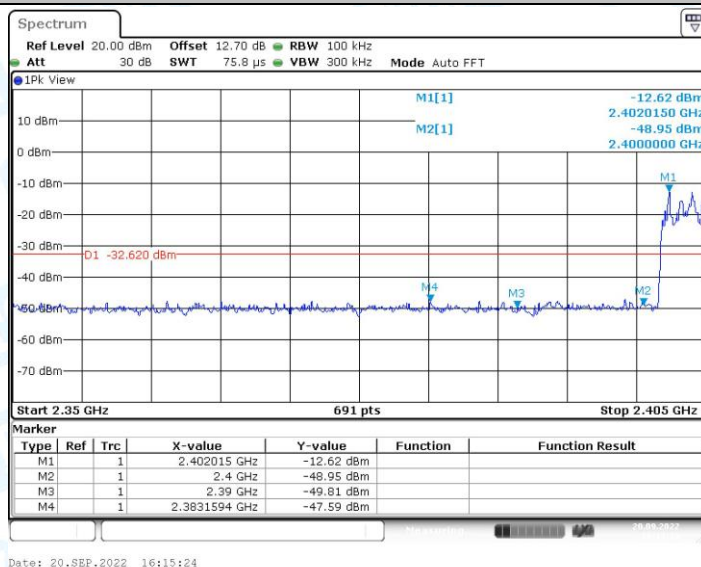
3DH5_Ant1_Low_2402



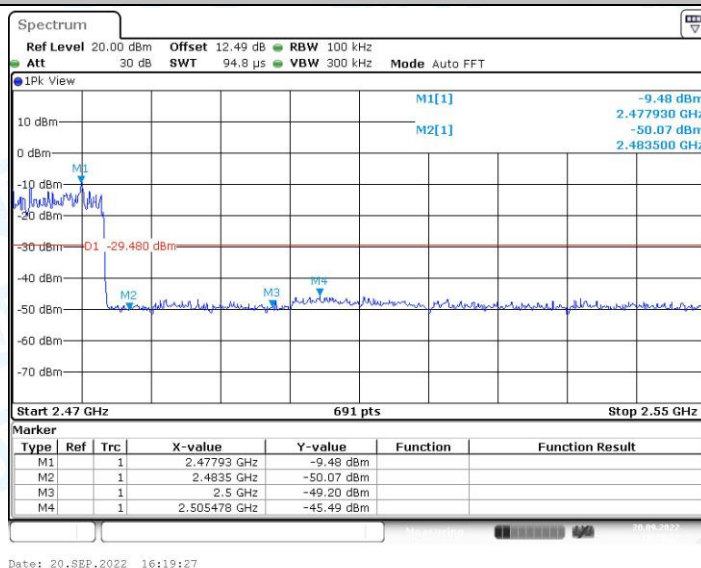
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



7. Conducted Spurious Emission

7.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-11.51	-11.51	---	PASS
			30~1000	-11.51	-56.09	≤-31.51	PASS
			1000~26500	-11.51	-47.98	≤-31.51	PASS
		2441	Reference	-9.34	-9.34	---	PASS
			30~1000	-9.34	-57.6	≤-29.34	PASS
			1000~26500	-9.34	-48.13	≤-29.34	PASS
		2480	Reference	-7.22	-7.22	---	PASS
			30~1000	-7.22	-55.56	≤-27.22	PASS
			1000~26500	-7.22	-48.61	≤-27.22	PASS
2DH5	Ant1	2402	Reference	-11.53	-11.53	---	PASS
			30~1000	-11.53	-55.57	≤-31.53	PASS
			1000~26500	-11.53	-47.63	≤-31.53	PASS
		2441	Reference	-9.29	-9.29	---	PASS
			30~1000	-9.29	-56.79	≤-29.29	PASS
			1000~26500	-9.29	-48.63	≤-29.29	PASS
		2480	Reference	-7.17	-7.17	---	PASS
			30~1000	-7.17	-56.68	≤-27.17	PASS
			1000~26500	-7.17	-48.09	≤-27.17	PASS
3DH5	Ant1	2402	Reference	-11.53	-11.53	---	PASS
			30~1000	-11.53	-56.75	≤-31.53	PASS
			1000~26500	-11.53	-48.19	≤-31.53	PASS
		2441	Reference	-9.28	-9.28	---	PASS
			30~1000	-9.28	-56.23	≤-29.28	PASS
			1000~26500	-9.28	-48.31	≤-29.28	PASS
		2480	Reference	-7.19	-7.19	---	PASS
			30~1000	-7.19	-57.51	≤-27.19	PASS
			1000~26500	-7.19	-48.24	≤-27.19	PASS