

RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	Network Media Players
Test Model:	DV6068Y
Sample ID:	202305-0132-12-#2
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202305-0132-131 The report only show the worst case data.	

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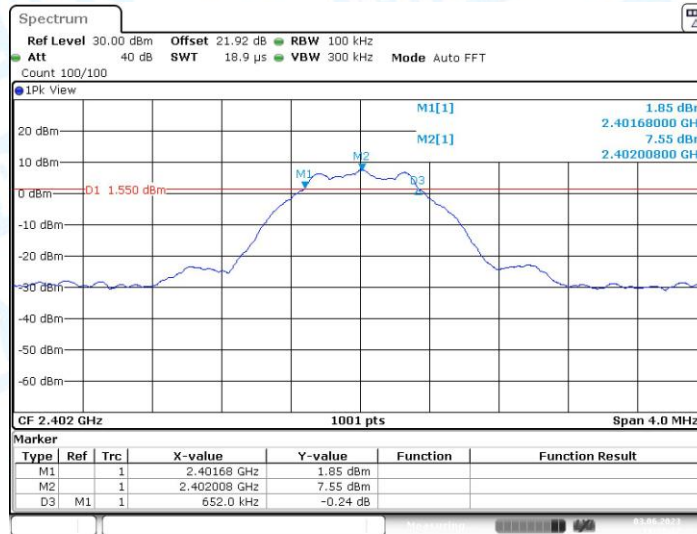
1. DTS Bandwidth

1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.65	2401.68	2402.33	0.5	PASS
		2440	0.65	2439.68	2440.33	0.5	PASS
		2480	0.65	2479.68	2480.33	0.5	PASS
BLE_2M	Ant1	2402	0.95	2401.46	2402.41	0.5	PASS
		2440	1.10	2439.46	2440.57	0.5	PASS
		2480	0.96	2479.45	2480.41	0.5	PASS

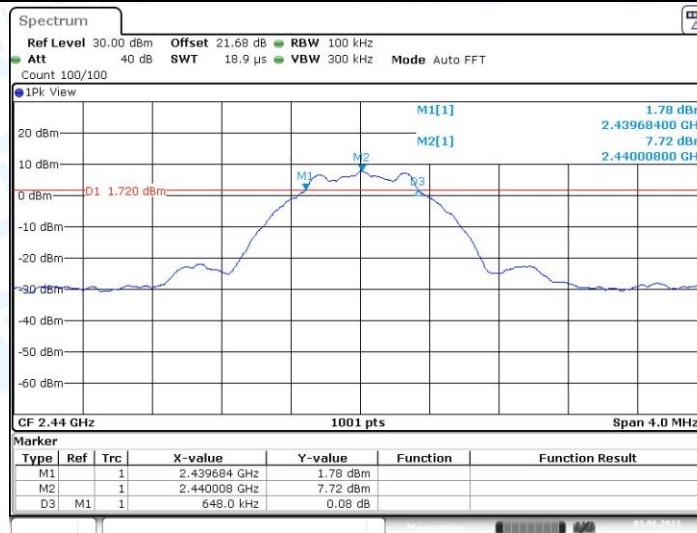
1.2. Test Graphs

BLE_1M_Ant1_2402



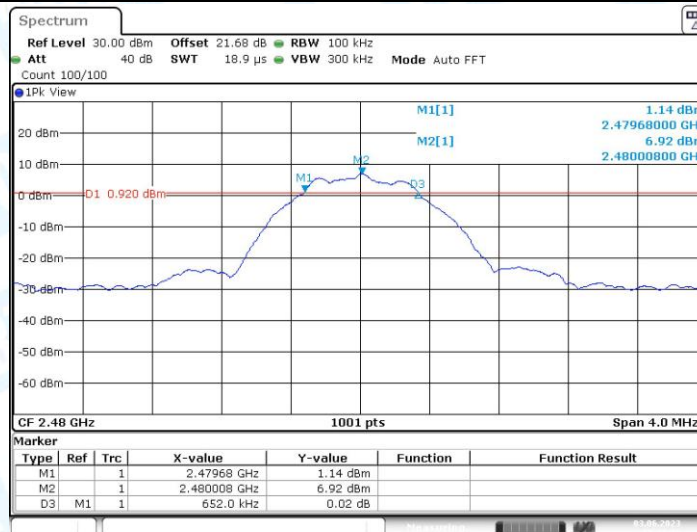
Date: 3.JUN.2023 17:21:36

BLE_1M_Ant1_2440



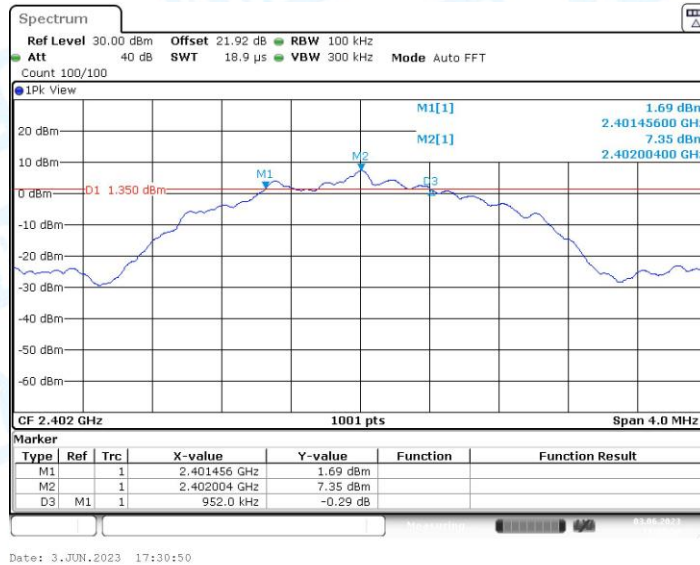
Date: 3.JUN.2023 17:25:08

BLE_1M_Ant1_2480

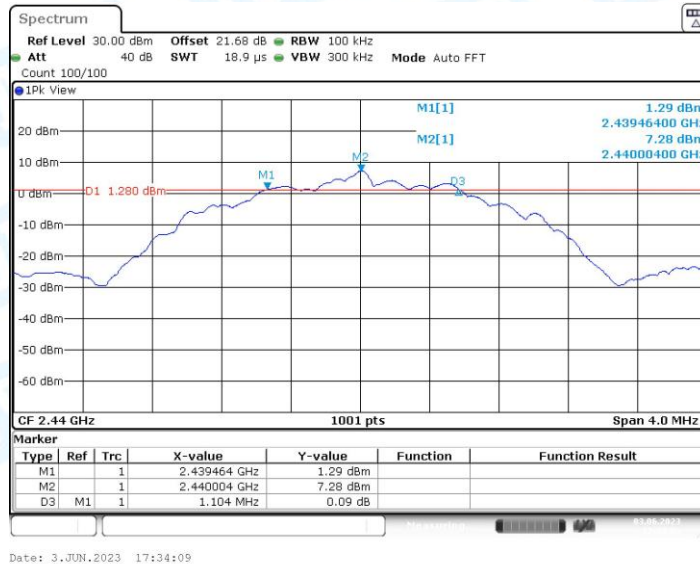


Date: 3.JUN.2023 17:27:31

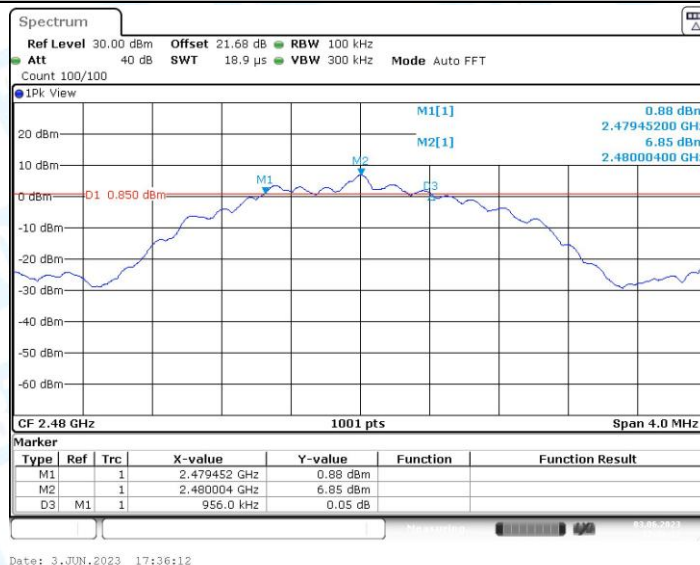
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

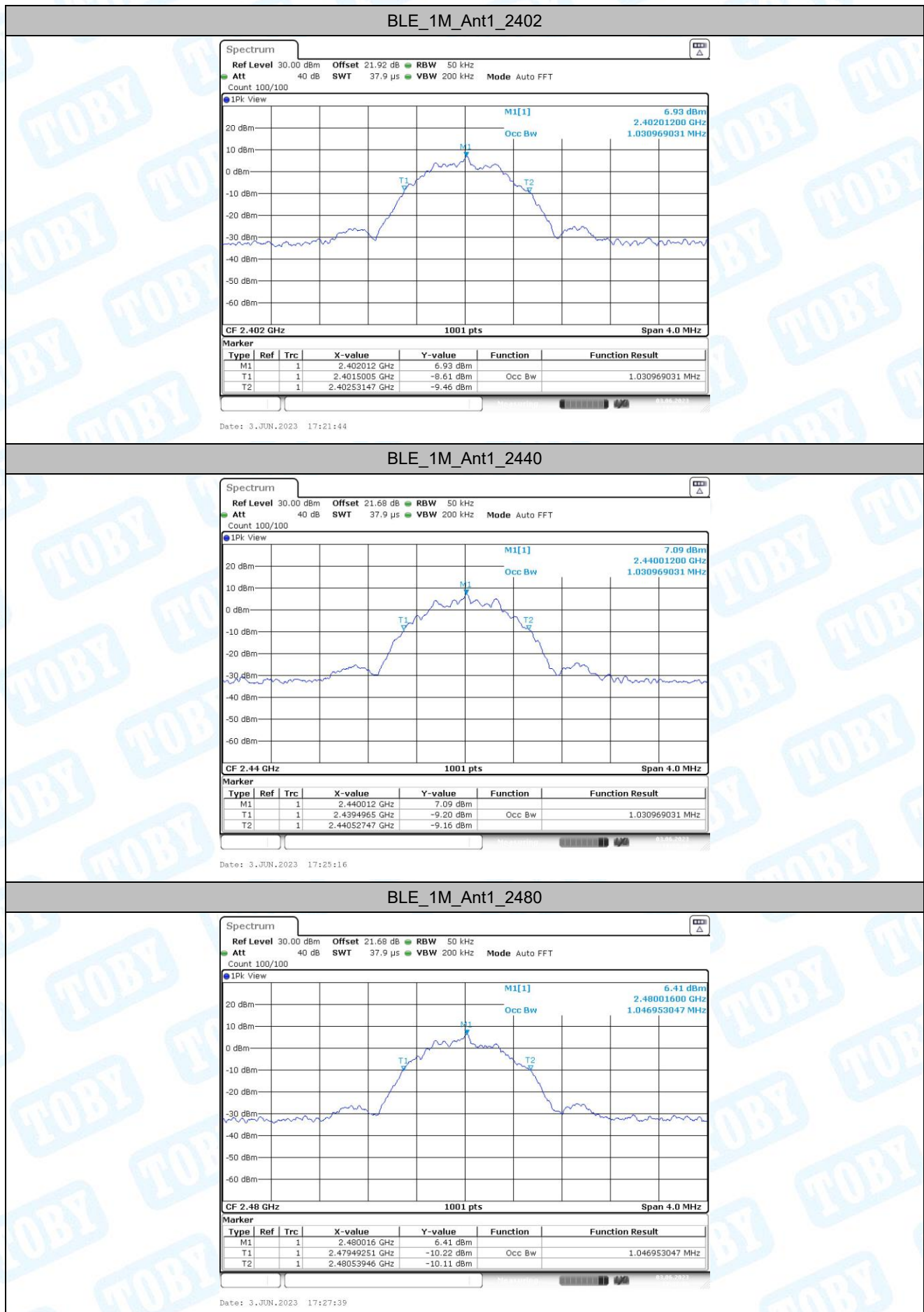


2. Occupied Channel Bandwidth

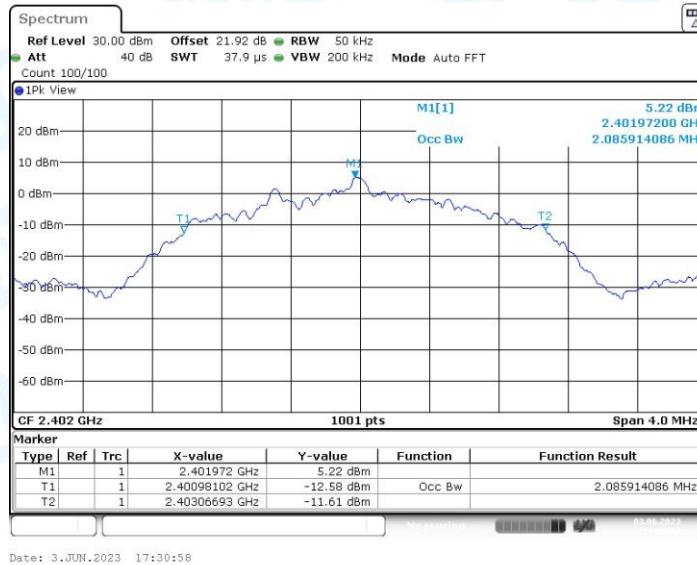
2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.031	2401.5005	2402.5315	---	---
		2440	1.031	2439.4965	2440.5275	---	---
		2480	1.047	2479.4925	2480.5395	---	---
BLE_2M	Ant1	2402	2.086	2400.9810	2403.0669	---	---
		2440	2.074	2438.9850	2441.0589	---	---
		2480	2.066	2478.9890	2481.0549	---	---

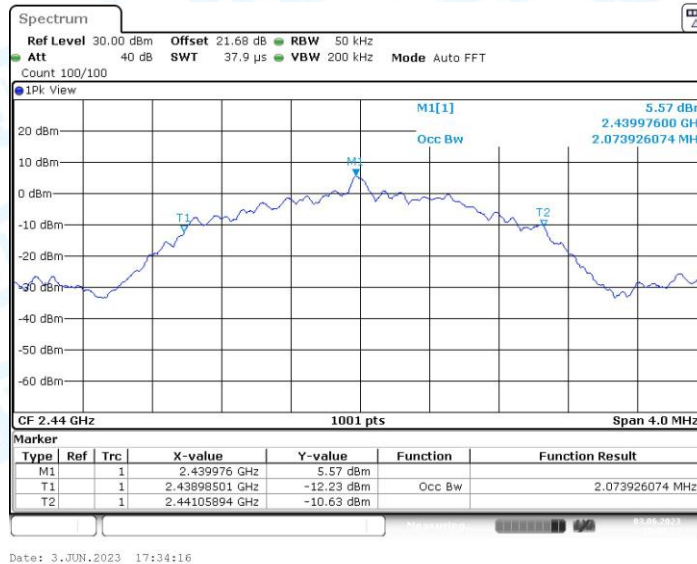
2.2. Test Graphs



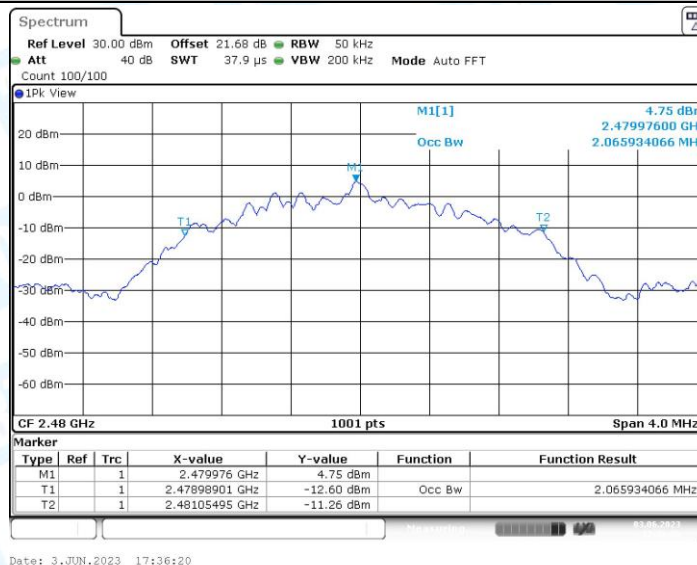
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

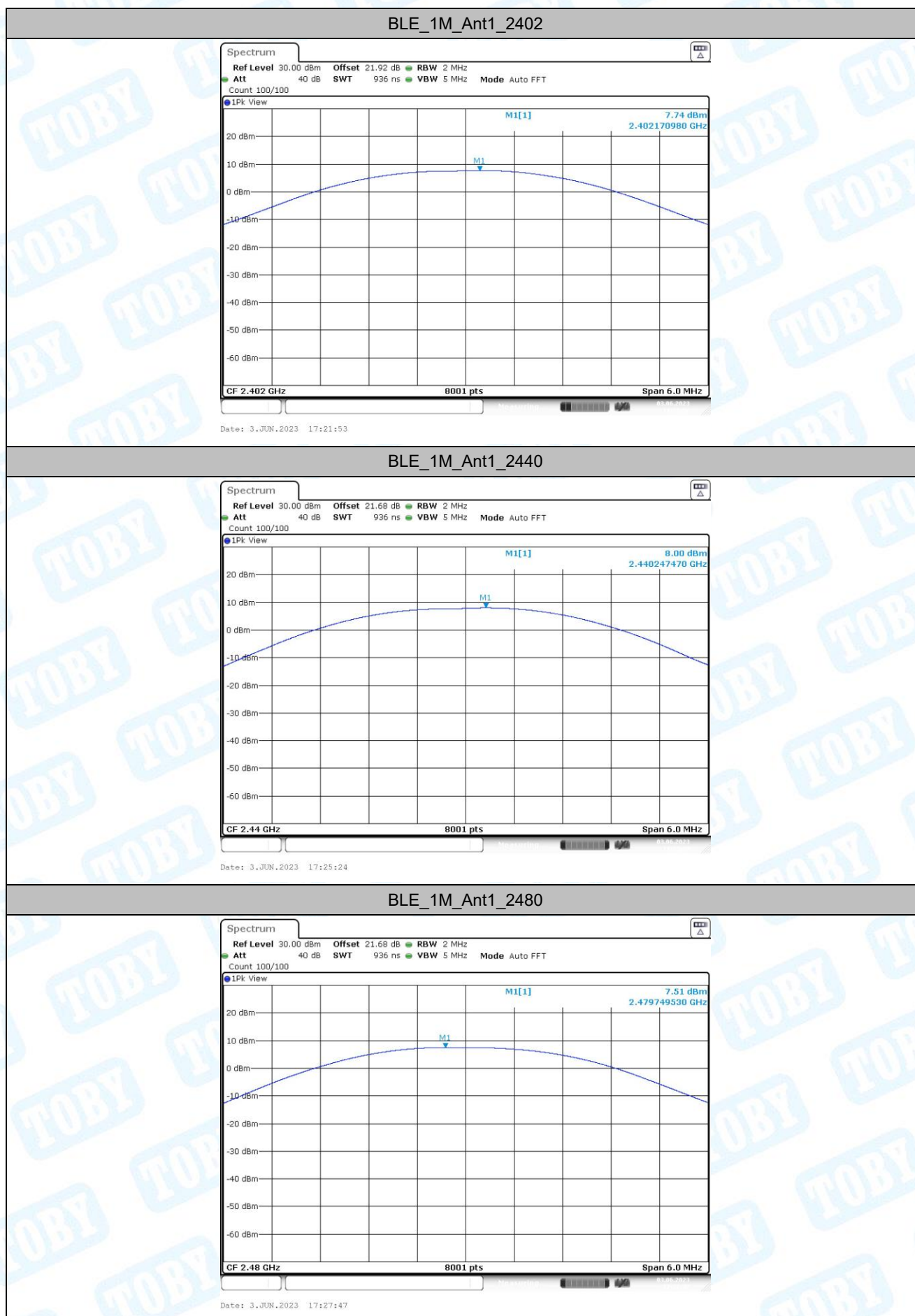


3. Maximum conducted output power

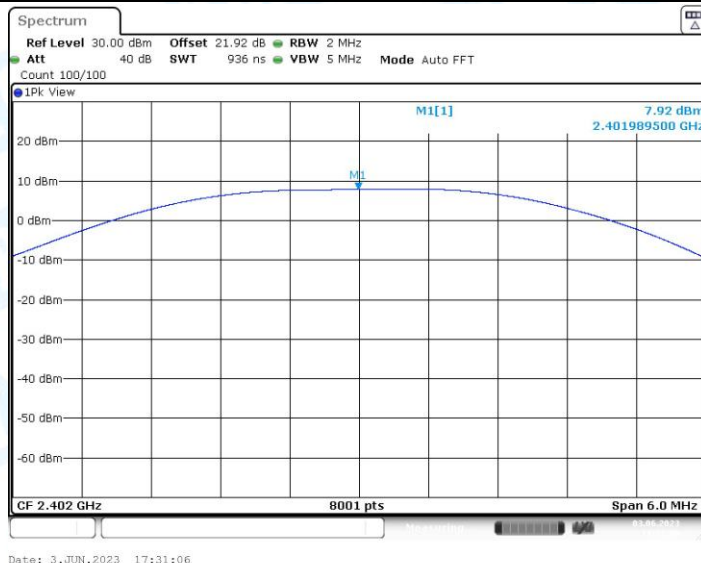
3.1. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.74	≤30	PASS
		2440	8.00	≤30	PASS
		2480	7.51	≤30	PASS
BLE_2M	Ant1	2402	7.92	≤30	PASS
		2440	8.05	≤30	PASS
		2480	7.10	≤30	PASS

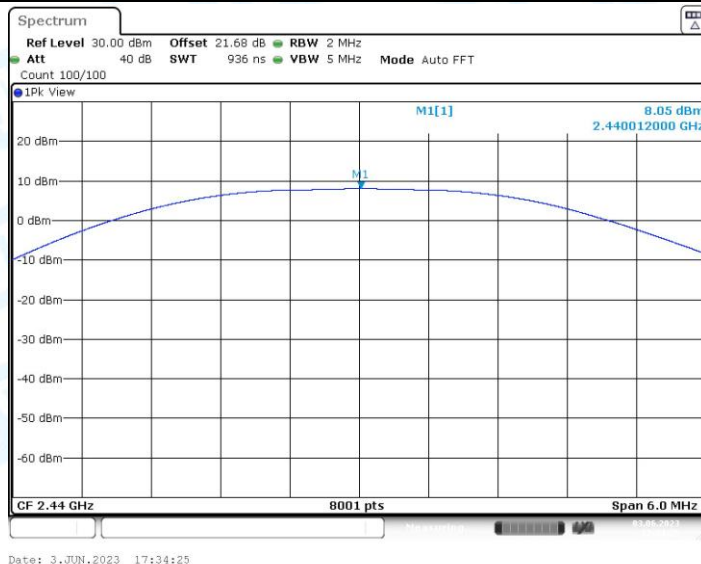
3.2. Test Graphs



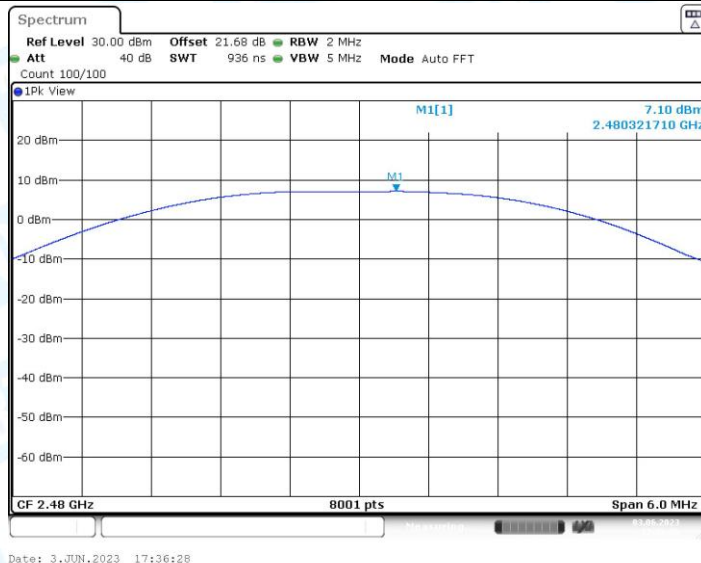
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

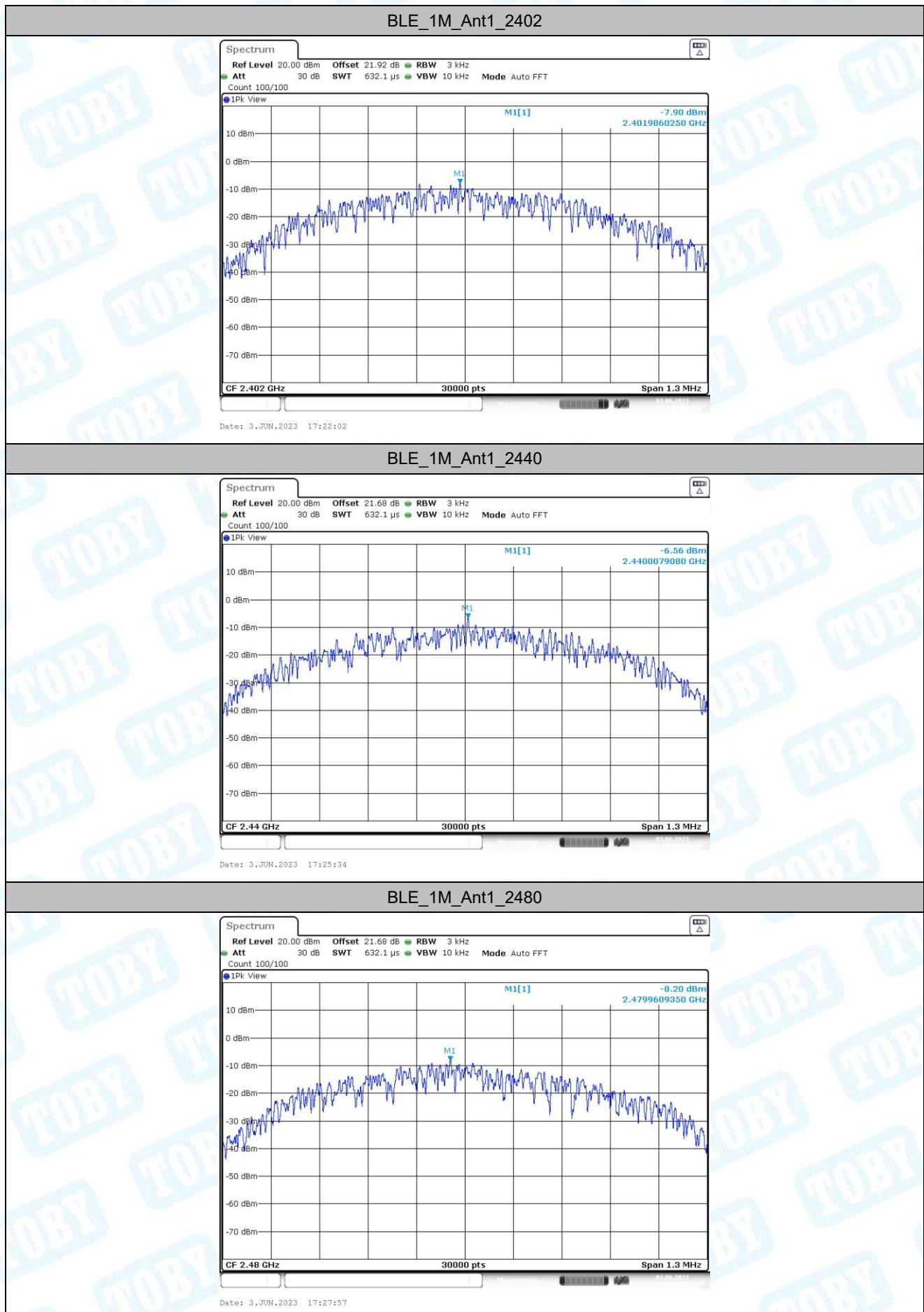


4. Maximum power spectral density

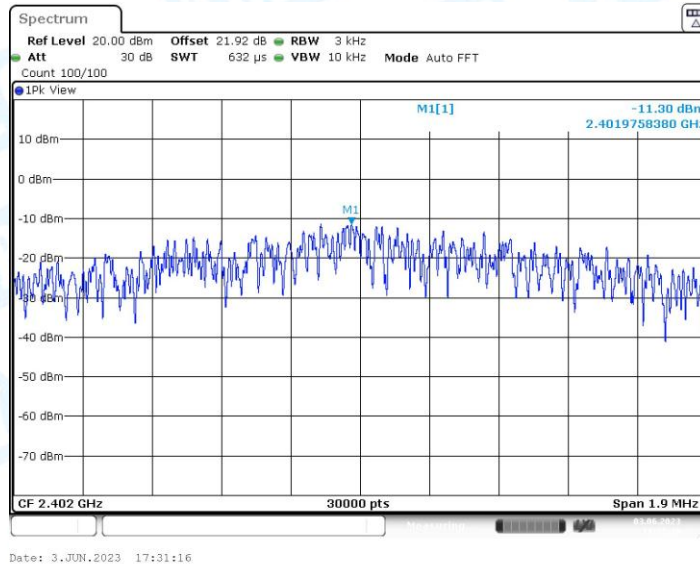
4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.90	≤8.00	PASS
		2440	-6.56	≤8.00	PASS
		2480	-8.20	≤8.00	PASS
BLE_2M	Ant1	2402	-11.30	≤8.00	PASS
		2440	-10.25	≤8.00	PASS
		2480	-10.29	≤8.00	PASS

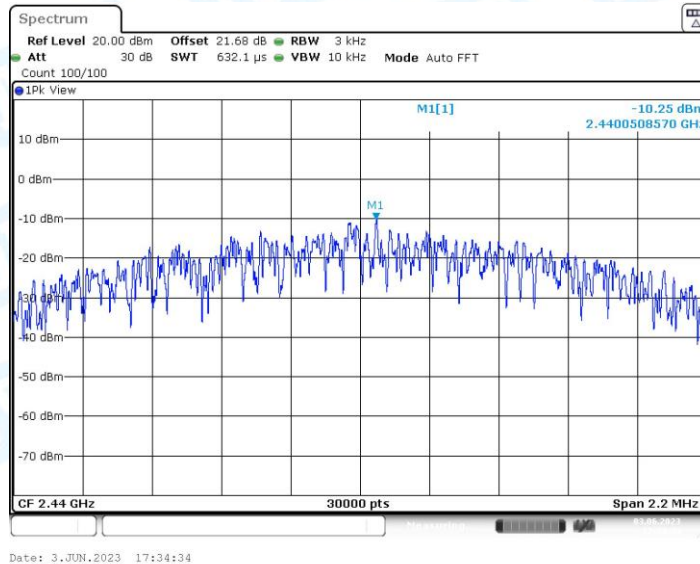
4.2. Test Graphs



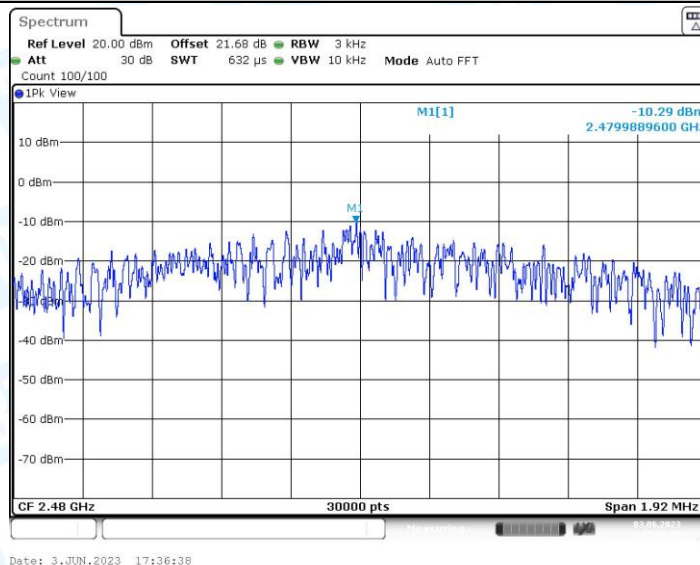
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



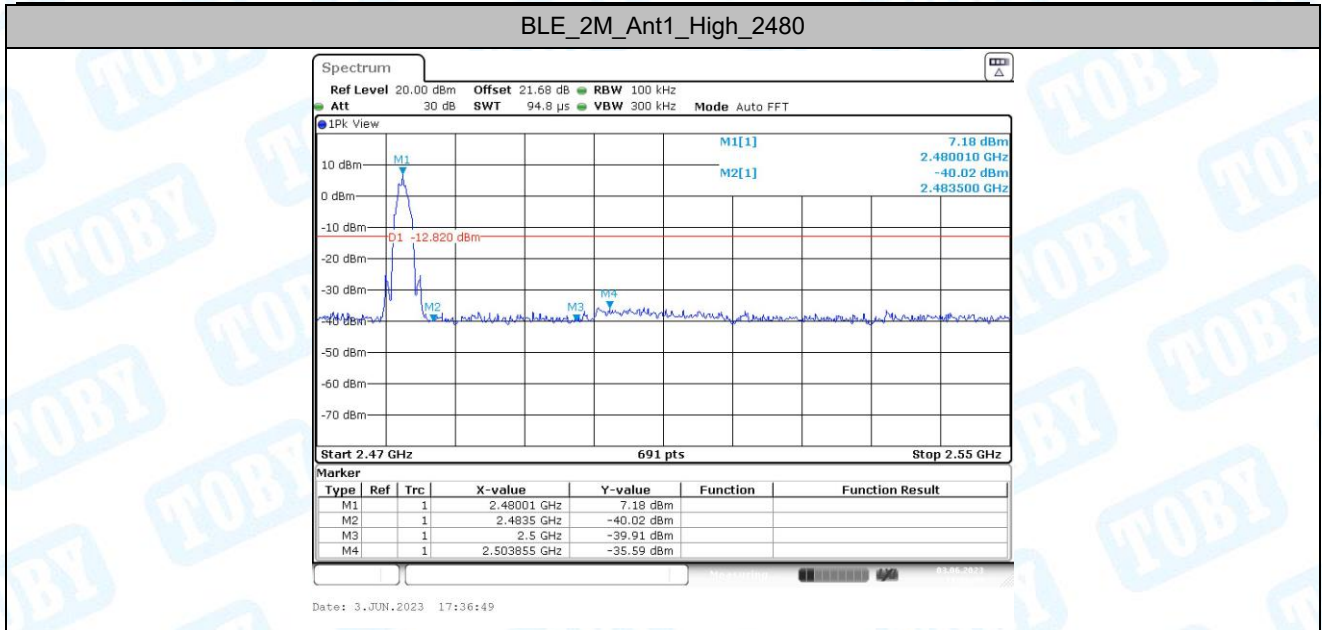
5. Band edge measurements

5.1. Test Result

Test Mode	Antenna	ChName	Channel	Ref.Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.68	-36.86	≤-12.32	PASS
		High	2480	7.24	-35.44	≤-12.76	PASS
BLE_2M	Ant1	Low	2402	7.50	-25.91	≤-12.50	PASS
		High	2480	7.18	-35.59	≤-12.82	PASS

5.2. Test Graphs





6. Conducted Spurious Emission

6.1. Test Result

Test Mode	Antenna	Channel	Freq. Range [MHz]	Ref. Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.60	7.60	---	PASS
			30~1000	7.60	-46.86	≤-12.4	PASS
			1000~26500	7.60	-37.67	≤-12.4	PASS
		2440	Reference	7.74	7.74	---	PASS
			30~1000	7.74	-46.91	≤-12.26	PASS
			1000~26500	7.74	-38.39	≤-12.26	PASS
		2480	Reference	7.16	7.16	---	PASS
			30~1000	7.16	-47.58	≤-12.84	PASS
			1000~26500	7.16	-37.77	≤-12.84	PASS
BLE_2M	Ant1	2402	Reference	7.66	7.66	---	PASS
			30~1000	7.66	-46.31	≤-12.34	PASS
			1000~26500	7.66	-38.17	≤-12.34	PASS
		2440	Reference	7.68	7.68	---	PASS
			30~1000	7.68	-47.32	≤-12.32	PASS
			1000~26500	7.68	-37.26	≤-12.32	PASS
		2480	Reference	7.14	7.14	---	PASS
			30~1000	7.14	-47.24	≤-12.86	PASS
			1000~26500	7.14	-37.17	≤-12.86	PASS

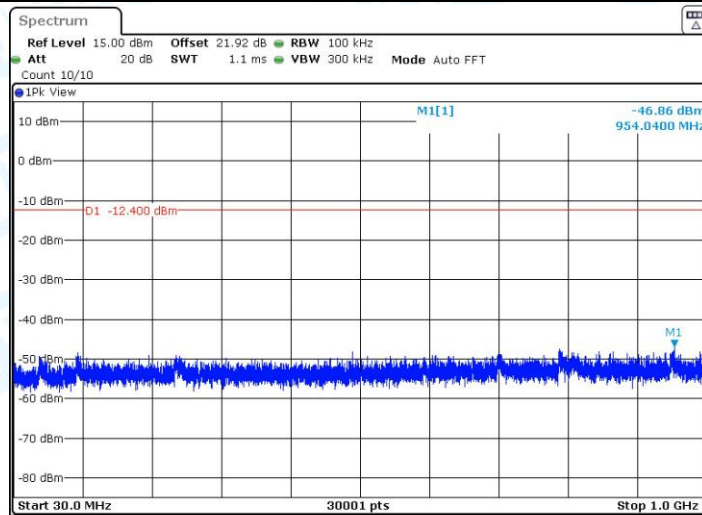
6.2. Test Graphs

BLE_1M_Ant1_2402_0~Reference



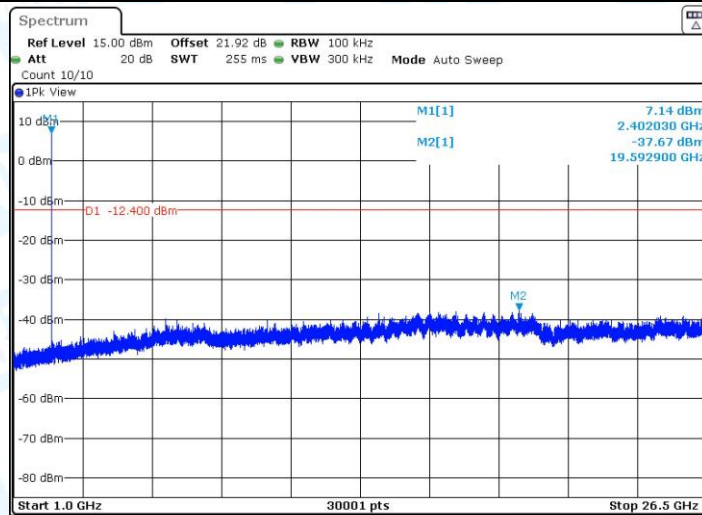
Date: 3.JUN.2023 17:23:21

BLE_1M_Ant1_2402_30~1000



Date: 3.JUN.2023 17:23:34

BLE_1M_Ant1_2402_1000~26500

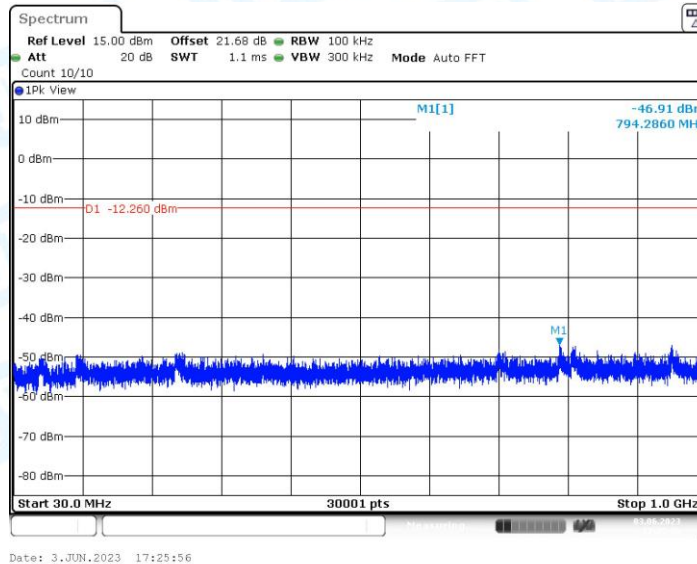


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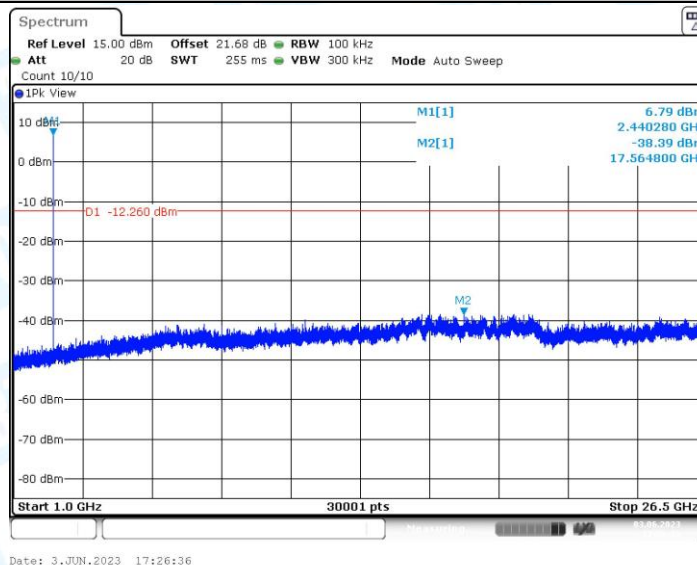
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



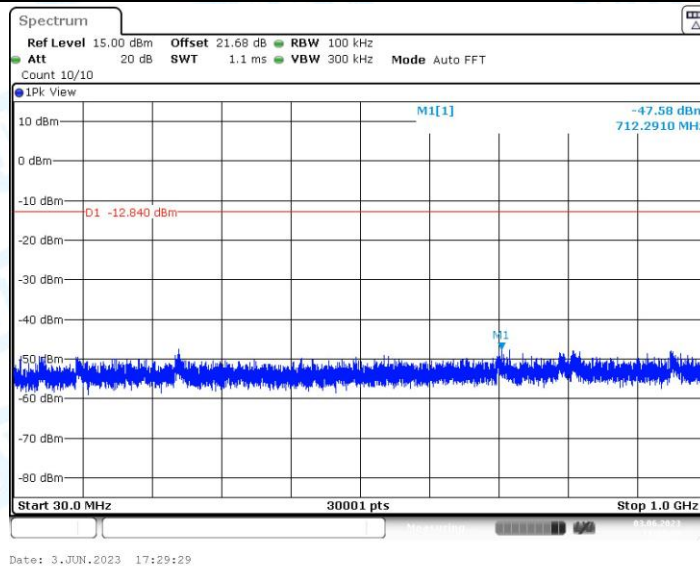
BLE_1M_Ant1_2440_1000~26500



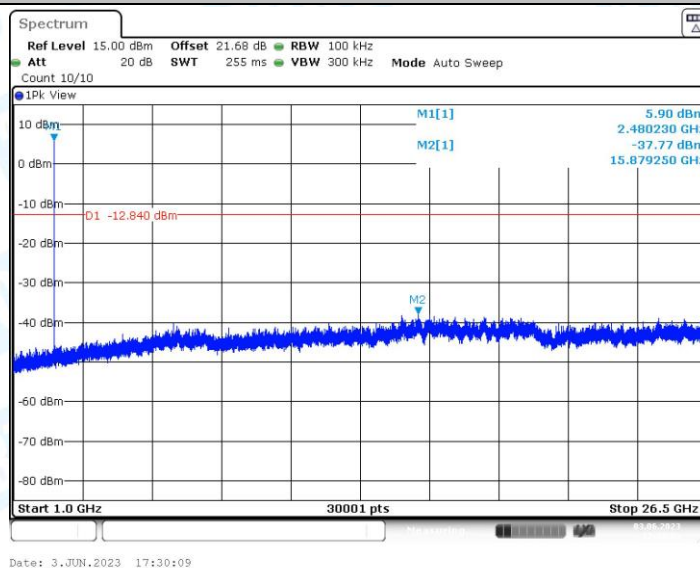
BLE_1M_Ant1_2480_0~Reference



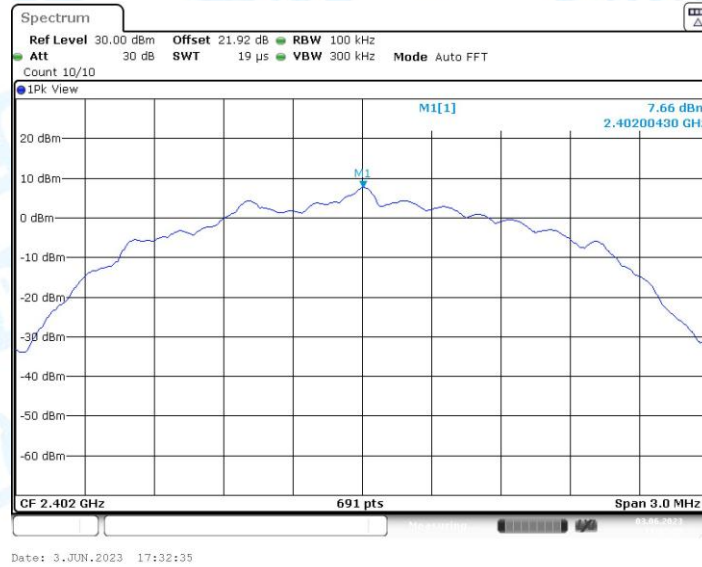
BLE_1M_Ant1_2480_30~1000



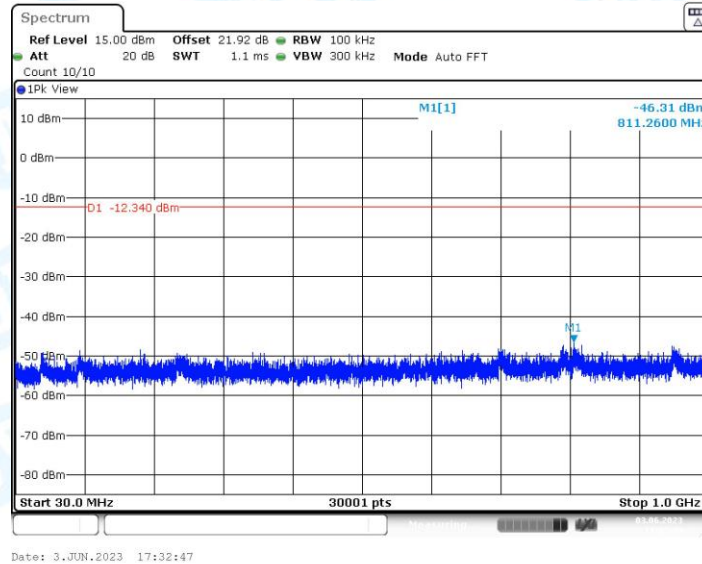
BLE_1M_Ant1_2480_1000~26500



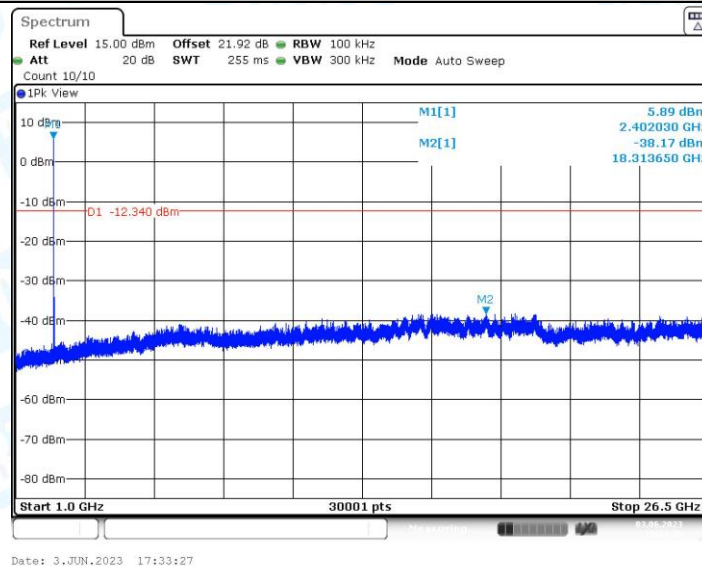
BLE_2M_Ant1_2402_0~Reference



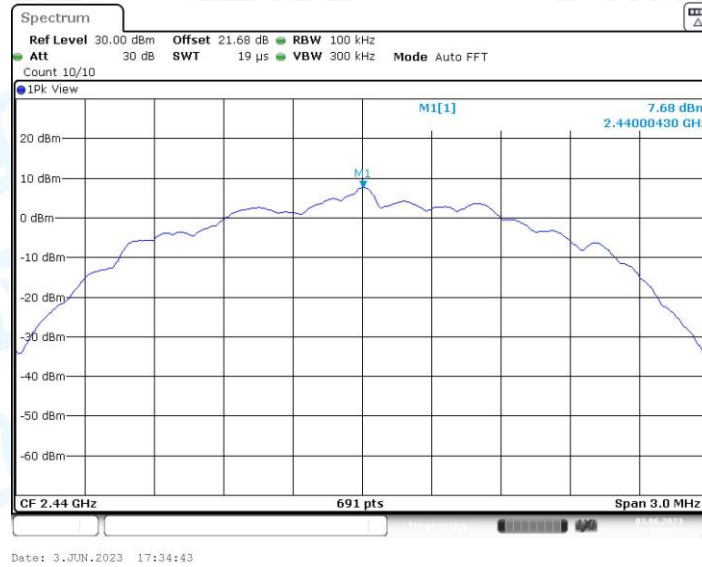
BLE_2M_Ant1_2402_30~1000



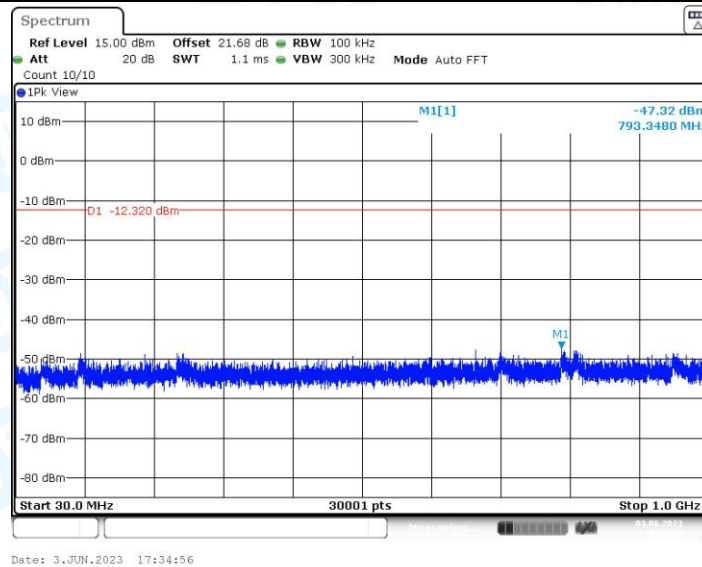
BLE_2M_Ant1_2402_1000~26500



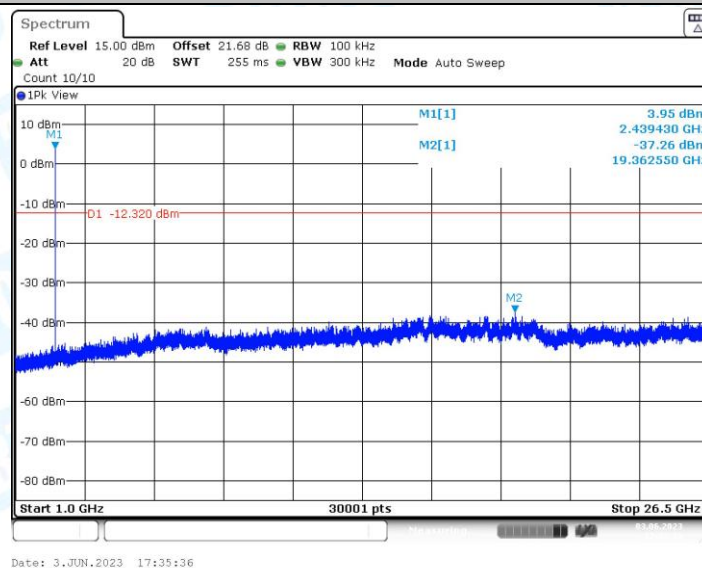
BLE_2M_Ant1_2440_0~Reference



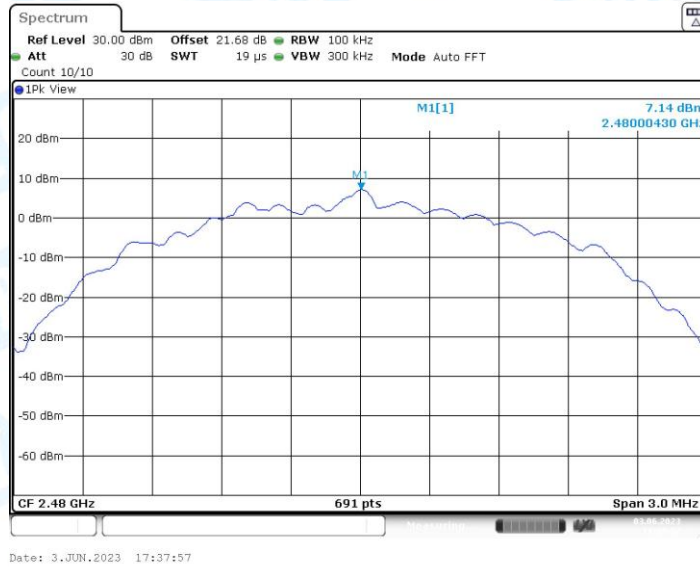
BLE_2M_Ant1_2440_30~1000



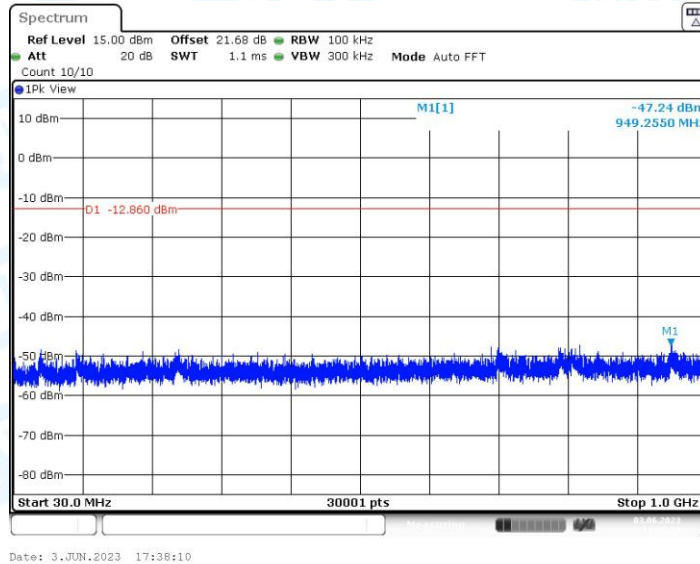
BLE_2M_Ant1_2440_1000~26500



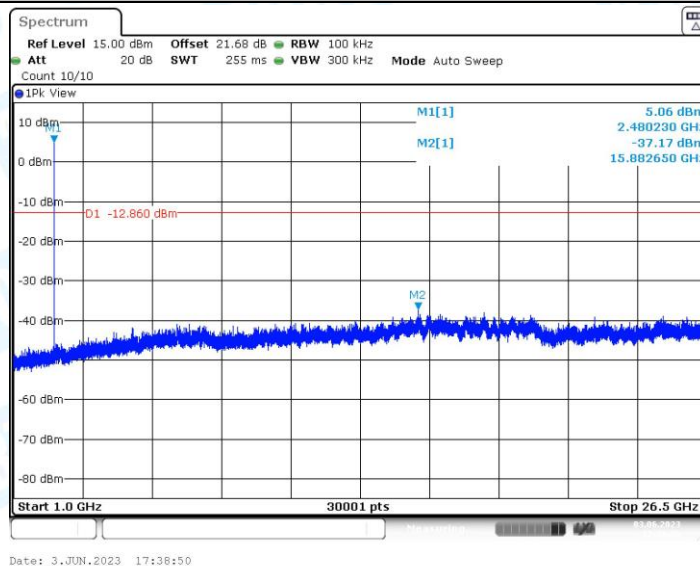
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



7. Duty Cycle

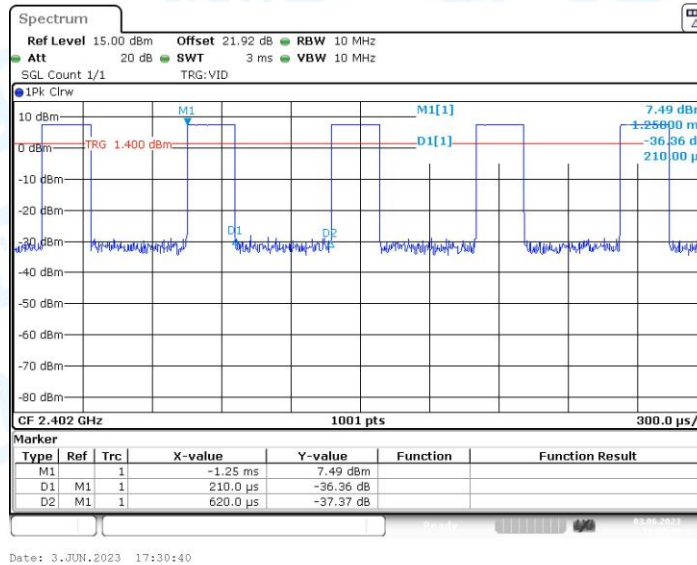
7.1. Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [KHz]	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.56	---	---
		2440	0.39	0.62	62.90	2.56	---	---
		2480	0.39	0.62	62.90	2.56	---	---
BLE_2M	Ant1	2402	0.21	0.62	33.87	4.76	---	---
		2440	0.21	0.62	33.87	4.76	---	---
		2480	0.21	0.62	33.87	4.76	---	---

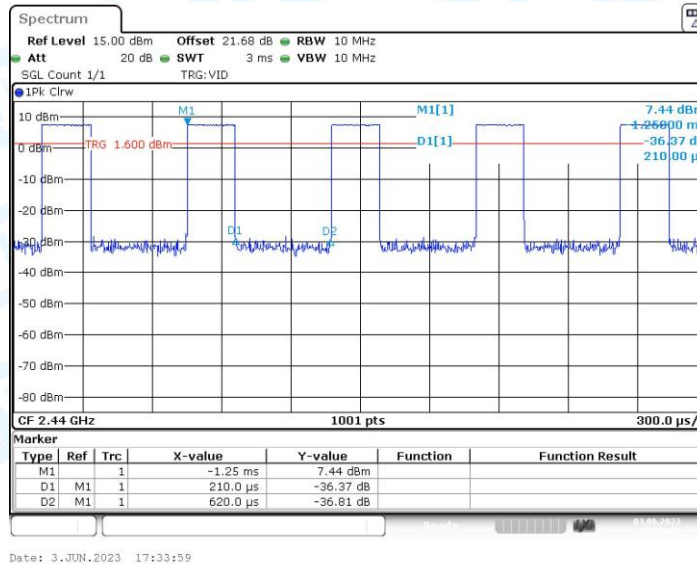
7.2. Test Graphs



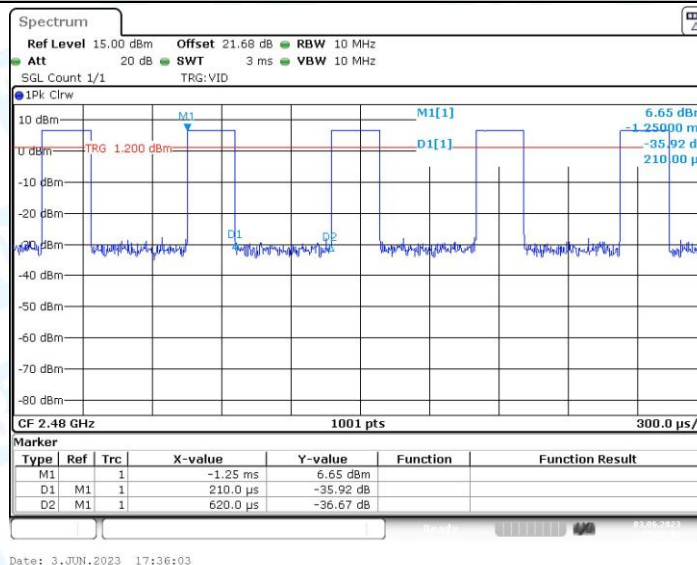
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



8. Emissions in Restricted Bands

8.1. Test Result

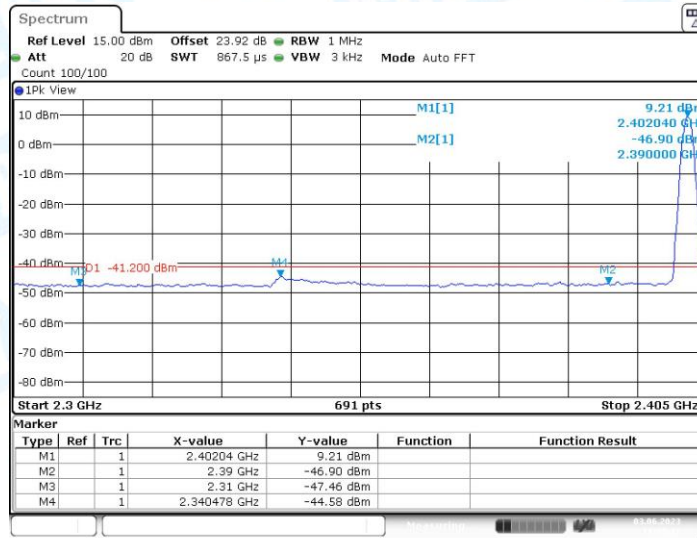
Test Mode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.46	≤-41.20	PASS
				AV	2340.478	-44.58	≤-41.20	PASS
				AV	2390.000	-46.9	≤-41.20	PASS
				Peak	2310.000	-38.69	≤-21.20	PASS
				Peak	2341.239	-33.72	≤-21.20	PASS
				Peak	2390.000	-38.26	≤-21.20	PASS
		High	2480	AV	2483.500	-46.79	≤-41.20	PASS
				AV	2485.420	-46.33	≤-41.20	PASS
				AV	2500.000	-46.77	≤-41.20	PASS
				Peak	2483.500	-38.51	≤-21.20	PASS
				Peak	2490.406	-35.29	≤-21.20	PASS
				Peak	2500.000	-36.23	≤-21.20	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-46.51	≤-41.20	PASS
				AV	2340.630	-44.69	≤-41.20	PASS
				AV	2390.000	-46.69	≤-41.20	PASS
				Peak	2310.000	-36.51	≤-21.20	PASS
				Peak	2340.935	-33.1	≤-21.20	PASS
				Peak	2390.000	-36.27	≤-21.20	PASS
		High	2480	AV	2483.500	-45.99	≤-41.20	PASS
				AV	2484.377	-45.56	≤-41.20	PASS
				AV	2500.000	-46.01	≤-41.20	PASS
				Peak	2483.500	-37.83	≤-21.20	PASS
				Peak	2491.681	-34.98	≤-21.20	PASS
				Peak	2500.000	-36.68	≤-21.20	PASS

Note:

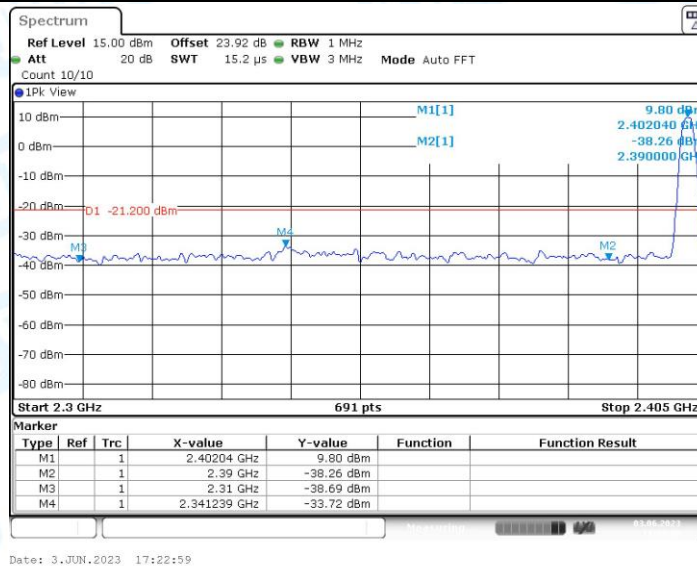
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

8.2. Test Graphs

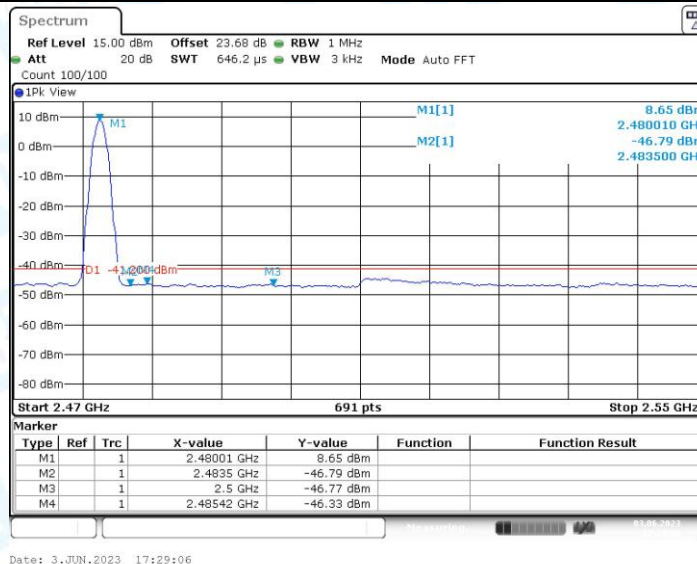
BLE_1M_Ant1_Low_2402_AV



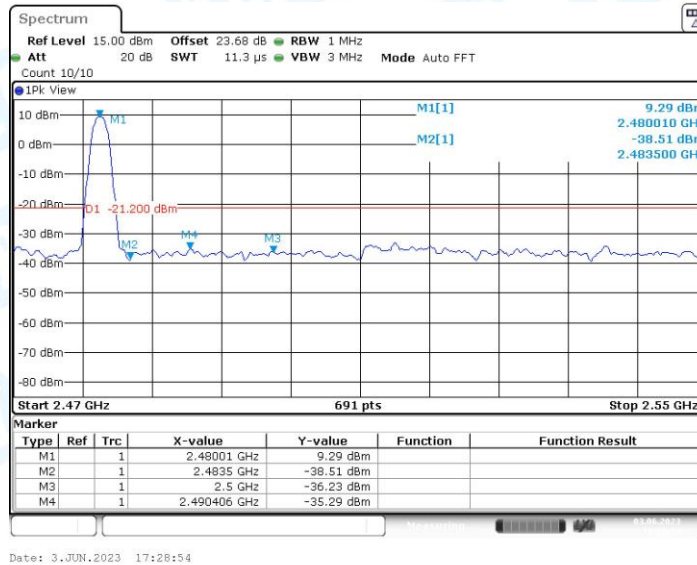
BLE_1M_Ant1_Low_2402_Peak



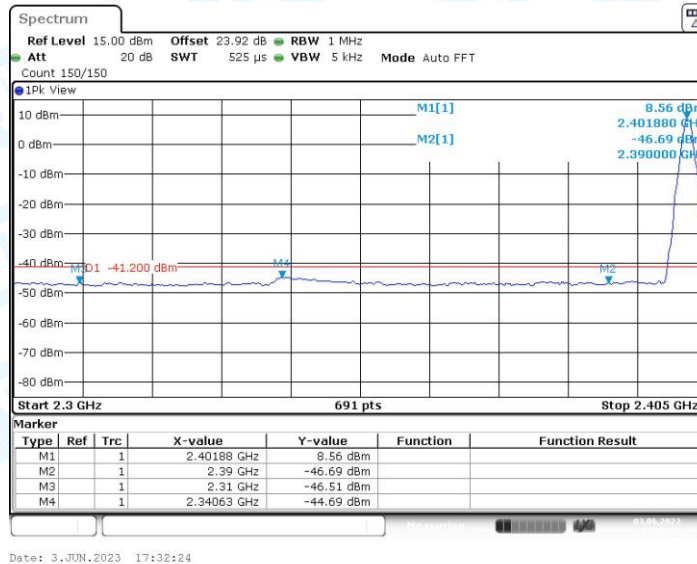
BLE_1M_Ant1_High_2480_AV



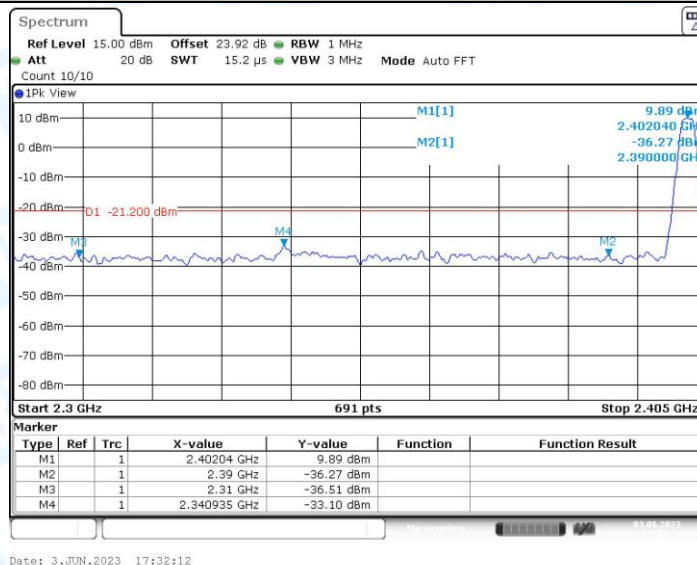
BLE_1M_Ant1_High_2480_Peak



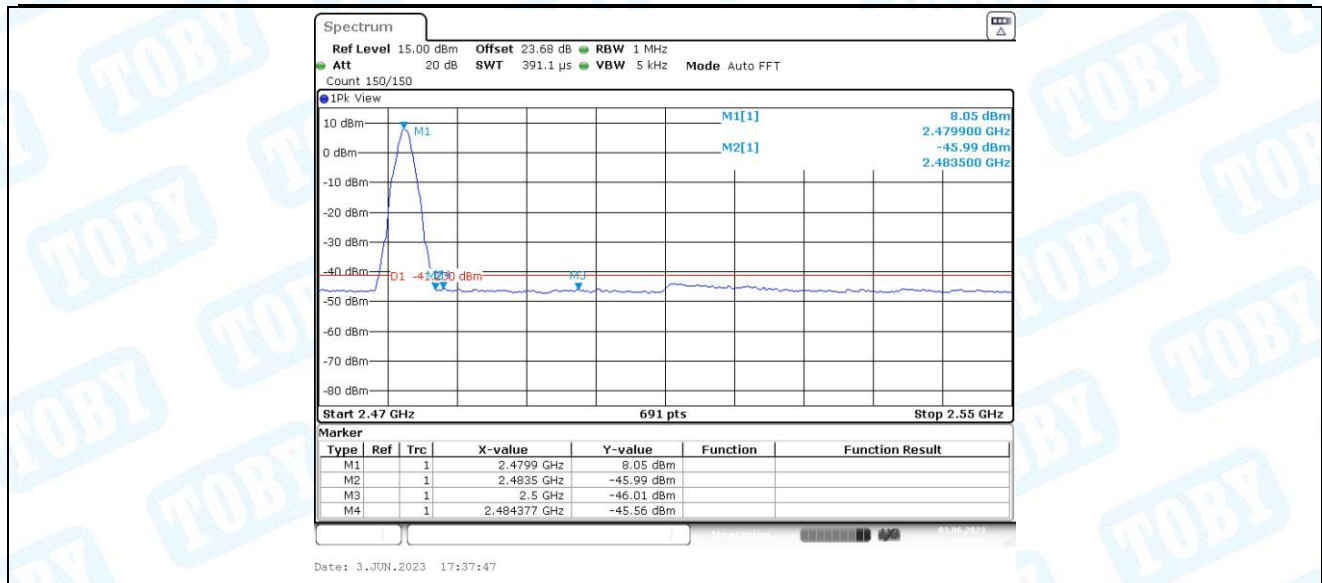
BLE_2M_Ant1_Low_2402_AV



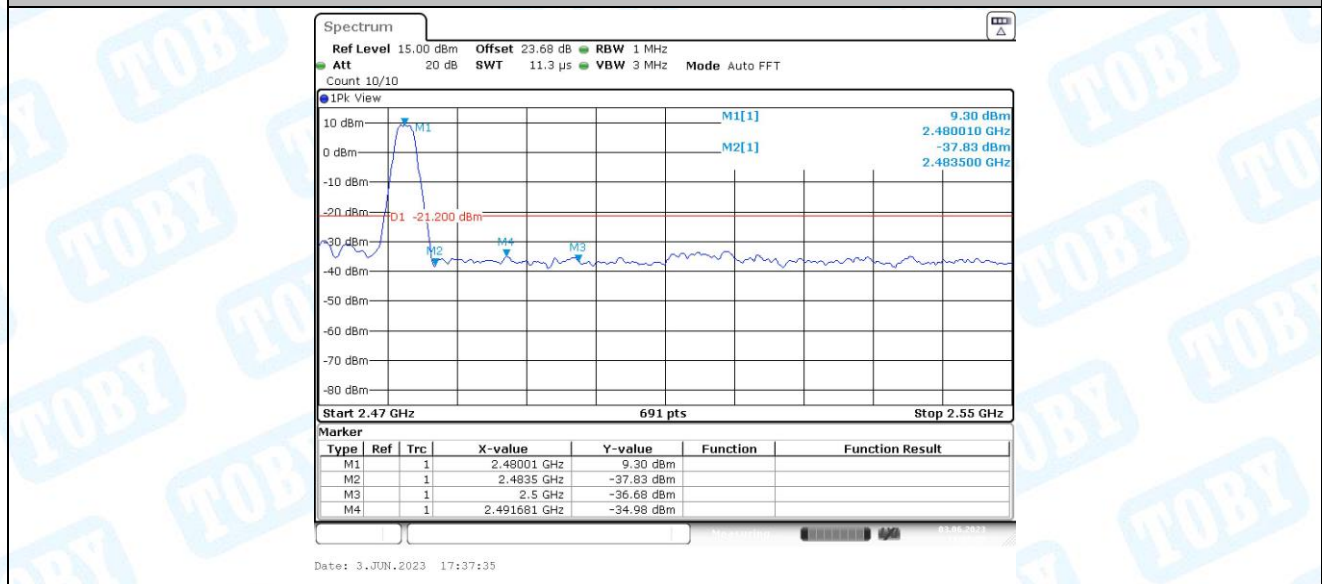
BLE_2M_Ant1_Low_2402_Peak



BLE_2M_Ant1_High_2480_AV



BLE_2M_Ant1_High_2480_Peak



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