

RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	Remote Control
Test Model:	B064-02-W7
Sample ID:	HC-C-202401-0338-01-01
Environmental Conditions	
Temperature:	23.5°C
Relative Humidity:	51%
Test Voltage:	DC 3V
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202401-0338-14.	

Contents

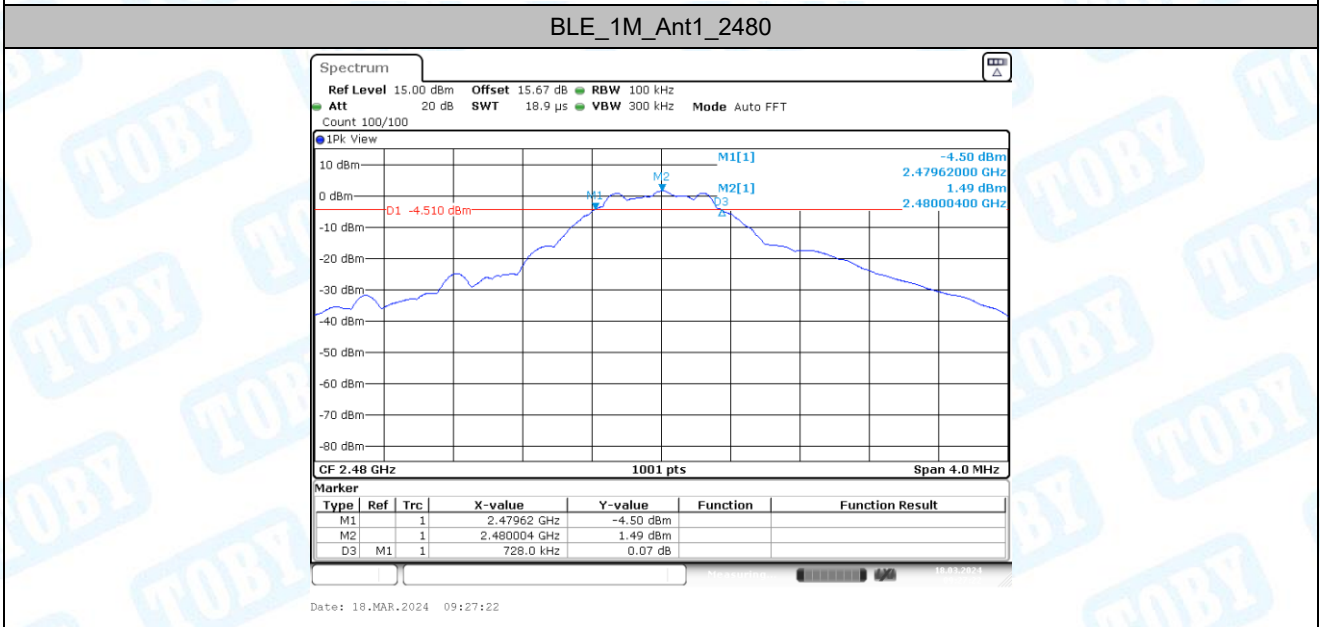
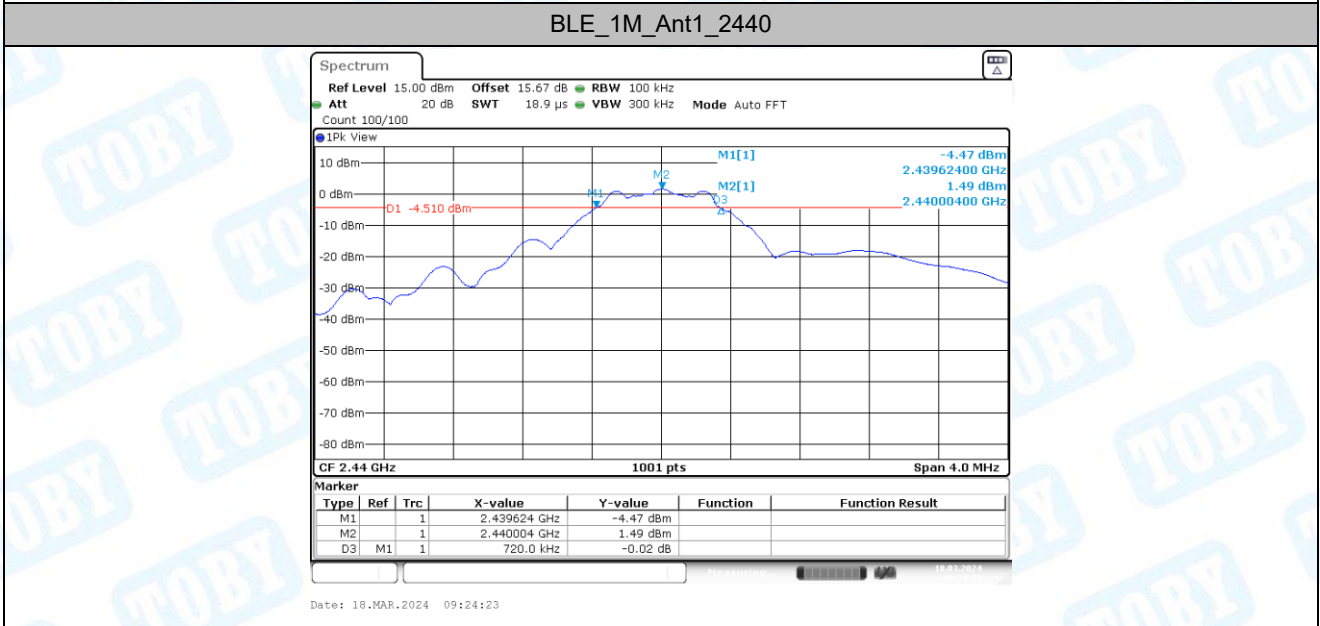
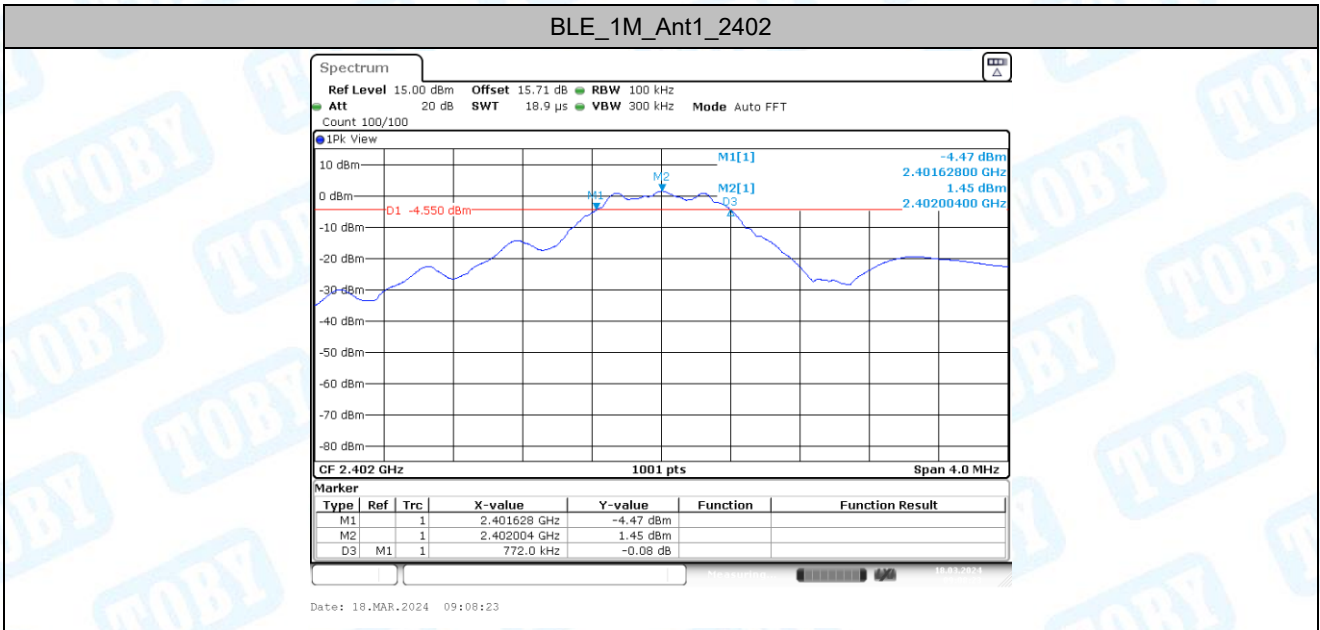
1. DTS Bandwidth.....	3
1.1. Test Result.....	3
1.2. Test Graphs.....	4
2. Occupied Channel Bandwidth.....	5
2.1. Test Result.....	5
2.2. Test Graphs.....	6
3. Maximum conducted output power.....	7
3.1. Test Result.....	7
3.2. Test Graphs.....	8
4. Maximum power spectral density.....	9
4.1. Test Result.....	9
4.2. Test Graphs.....	10
5. Band edge measurements.....	11
5.1. Test Result.....	11
5.2. Test Graphs.....	12
6. Conducted Spurious Emission.....	13
6.1. Test Result.....	13
6.2. Test Graphs.....	14
7. Duty Cycle.....	17
7.1. Test Result.....	17
7.2. Test Graphs.....	18

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	0.77	2401.63	2402.40	0.5	PASS
		2440	0.72	2439.62	2440.34	0.5	PASS
		2480	0.73	2479.62	2480.35	0.5	PASS

1.2. Test Graphs

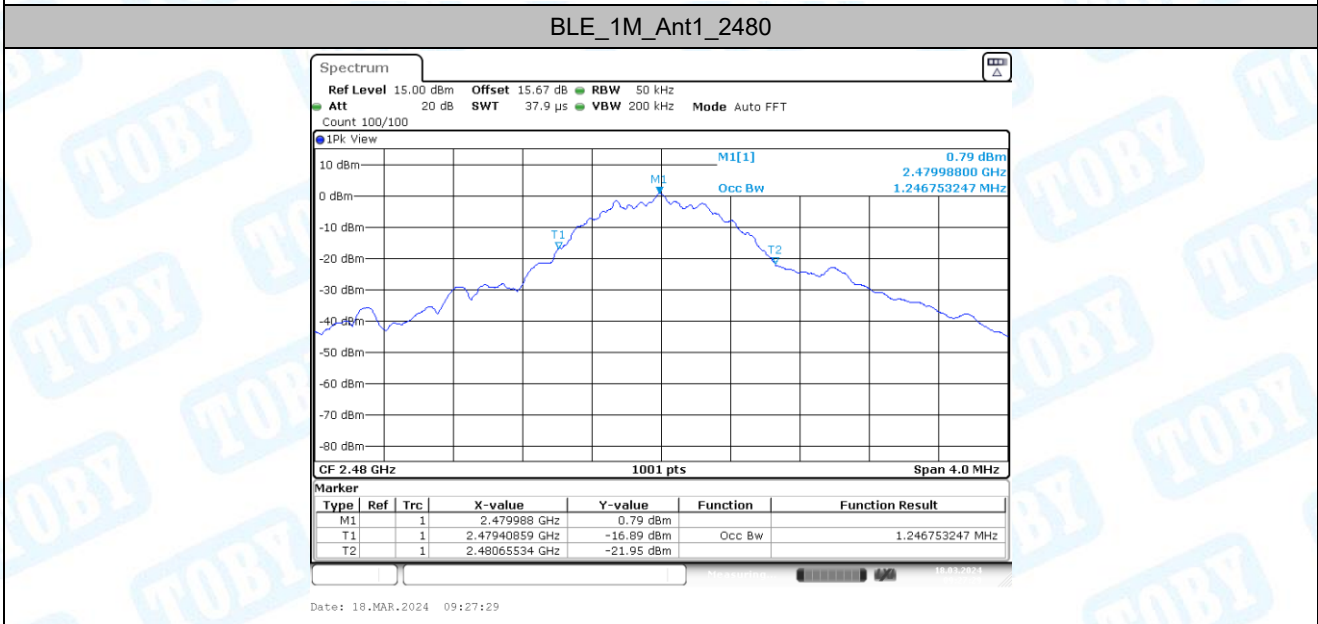
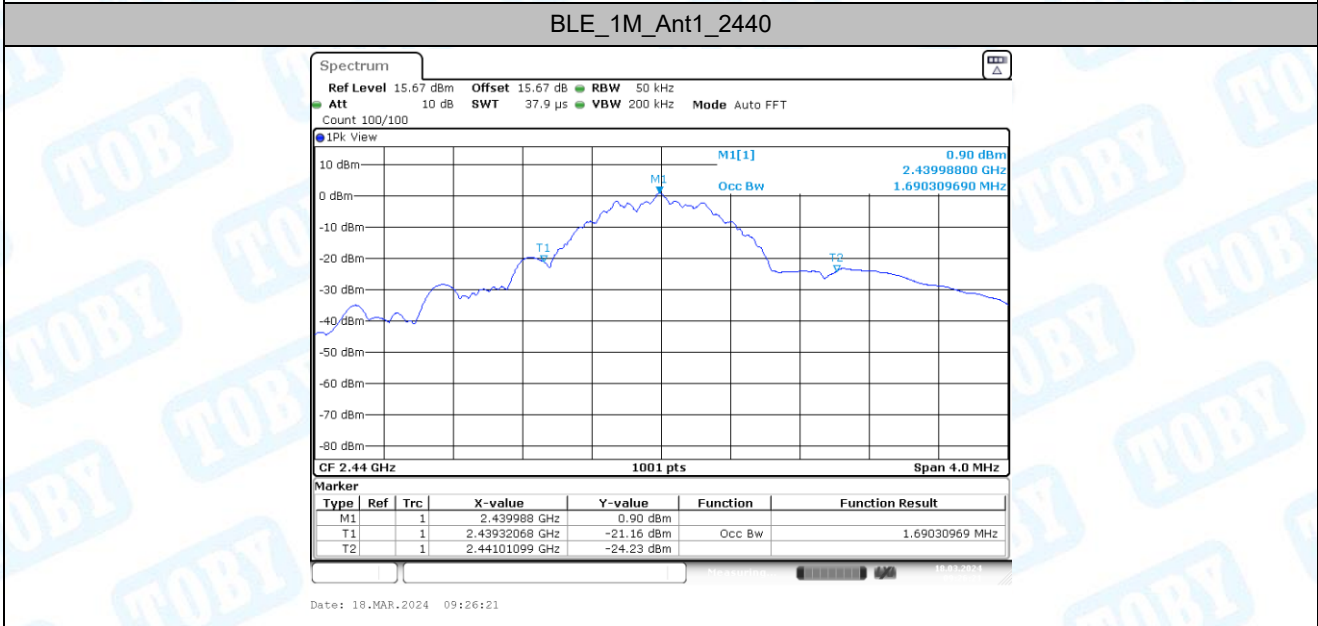
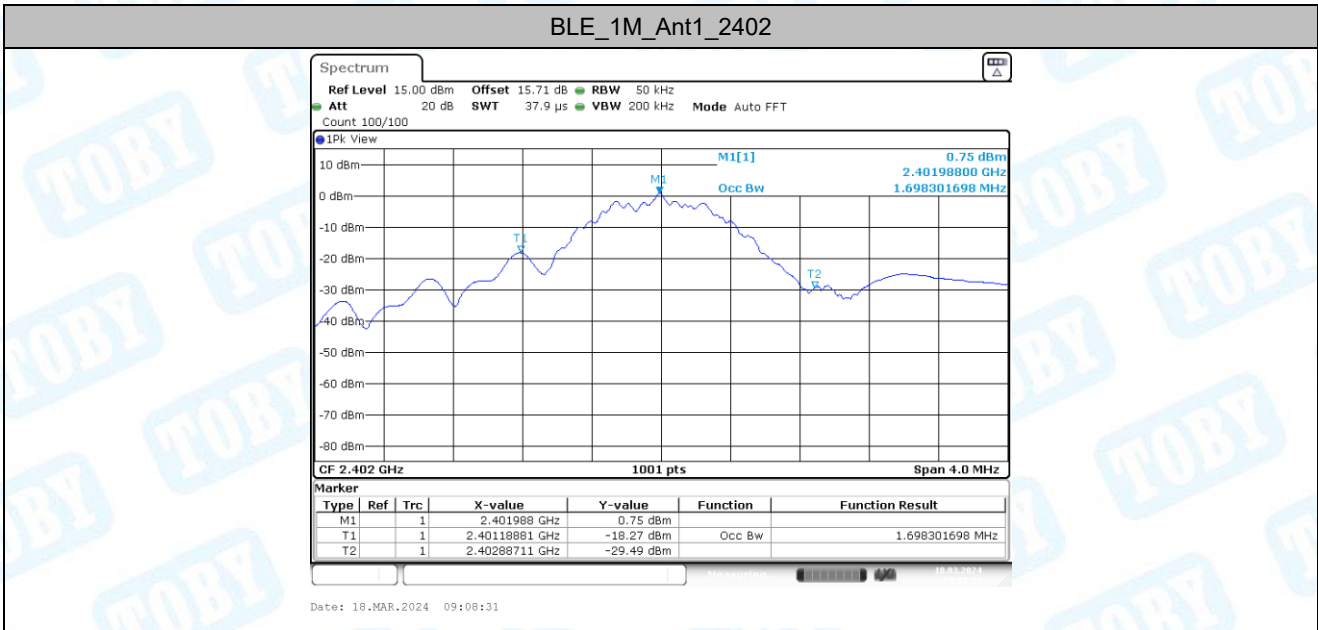


2. Occupied Channel Bandwidth

2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.698	2401.1888	2402.8871	---	---
		2440	1.690	2439.3207	2441.0110	---	---
		2480	1.247	2479.4086	2480.6553	---	---

2.2. Test Graphs

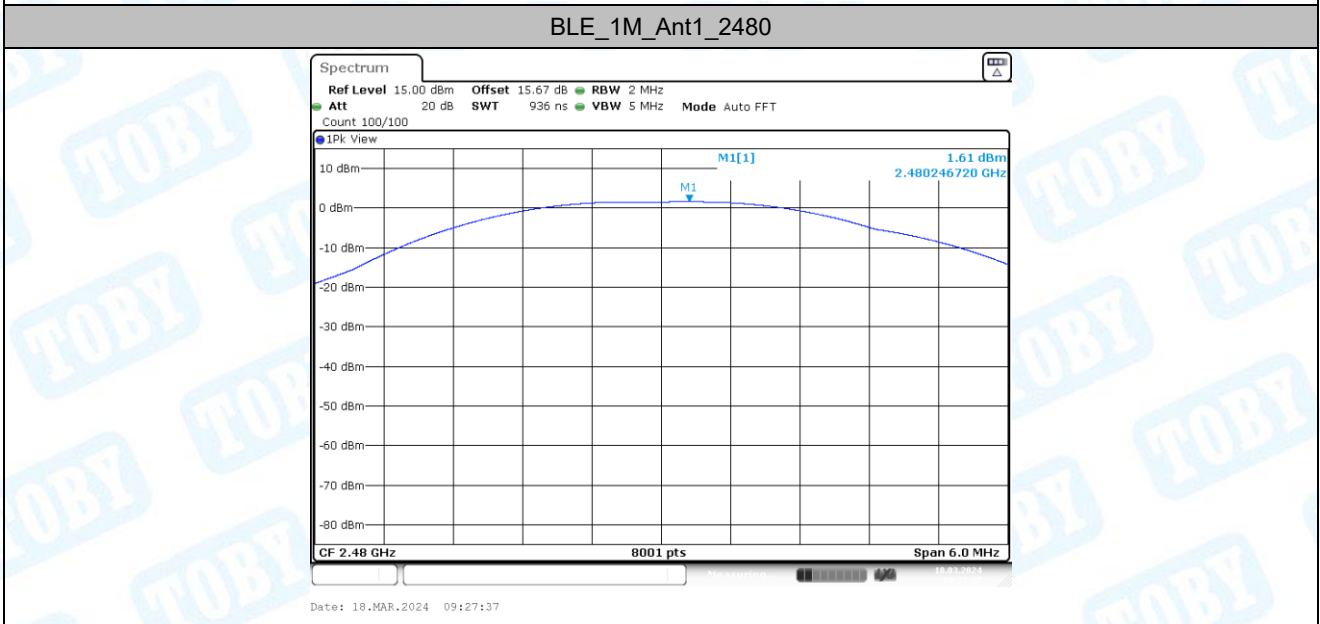
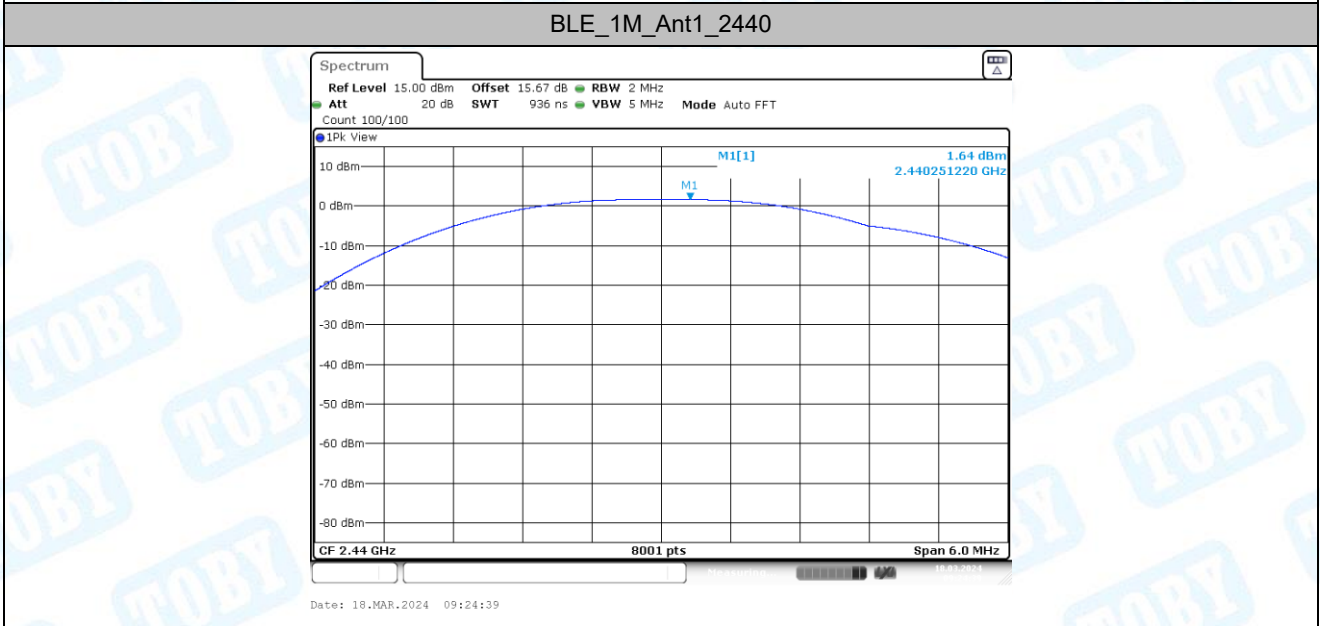
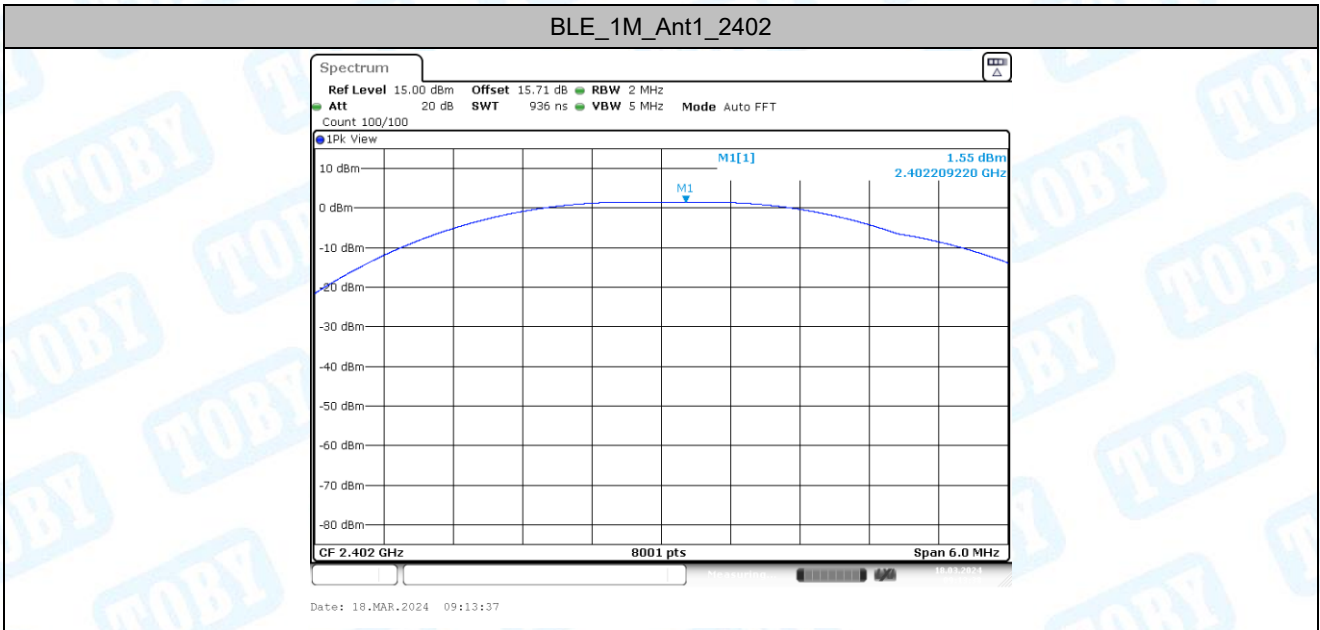


3. Maximum conducted output power

3.1. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.55	≤30	PASS
		2440	1.64	≤30	PASS
		2480	1.61	≤30	PASS

3.2. Test Graphs

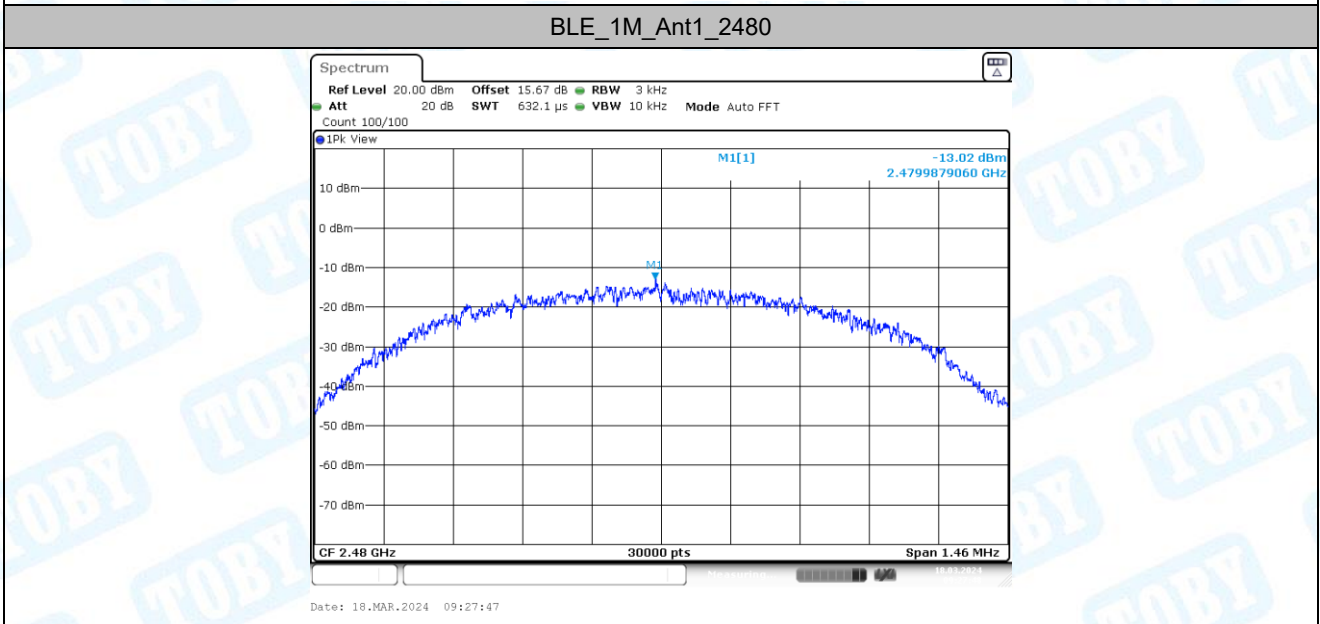
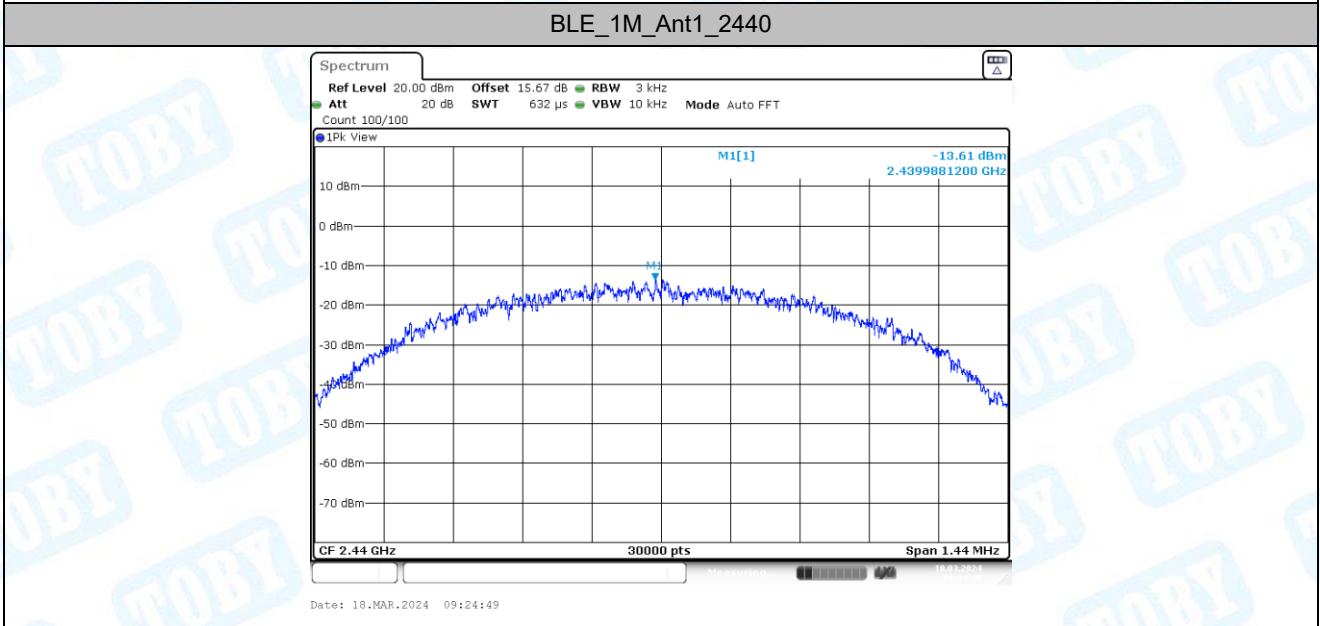
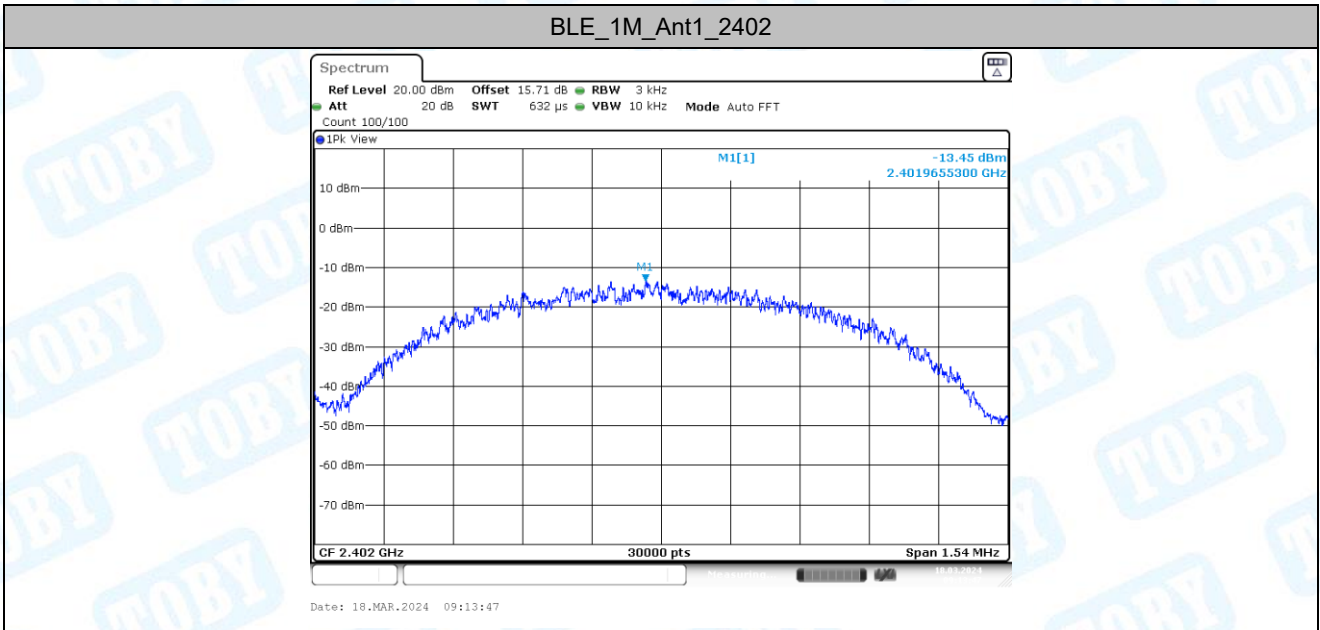


4. Maximum power spectral density

4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.45	≤8.00	PASS
		2440	-13.61	≤8.00	PASS
		2480	-13.02	≤8.00	PASS

4.2. Test Graphs

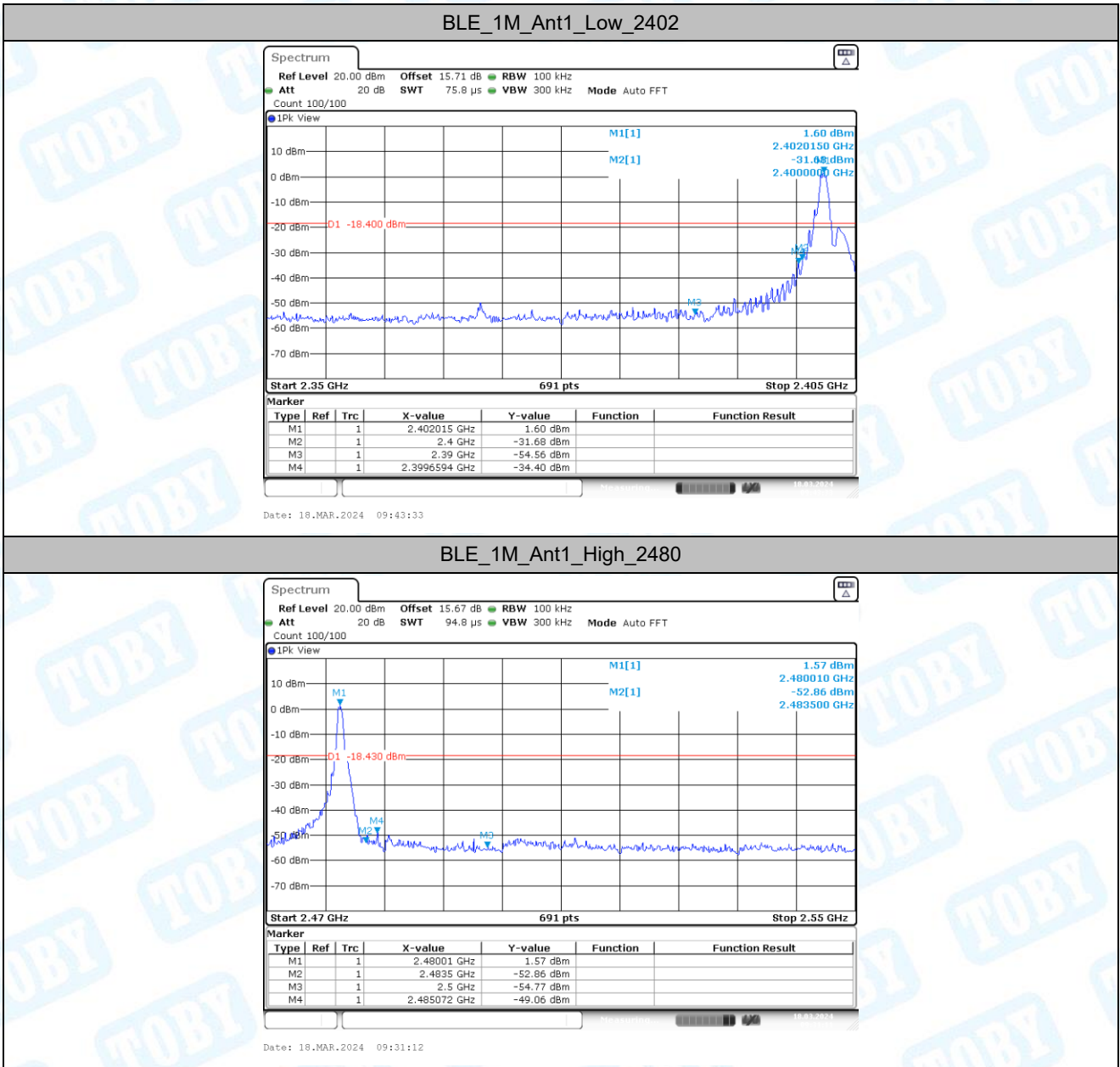


5. Band edge measurements

5.1. Test Result

Test Mode	Antenna	ChName	Channel	Ref.Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.60	-34.4	≤-18.4	PASS
		High	2480	1.57	-49.06	≤-18.43	PASS

5.2. Test Graphs

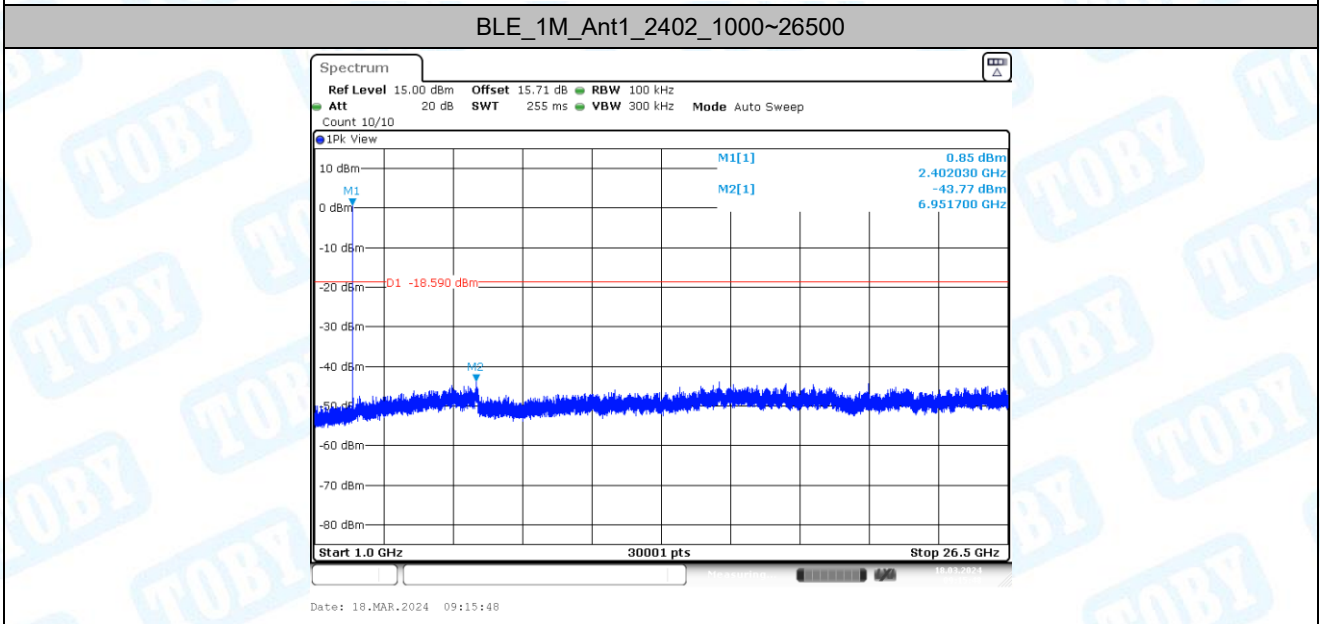
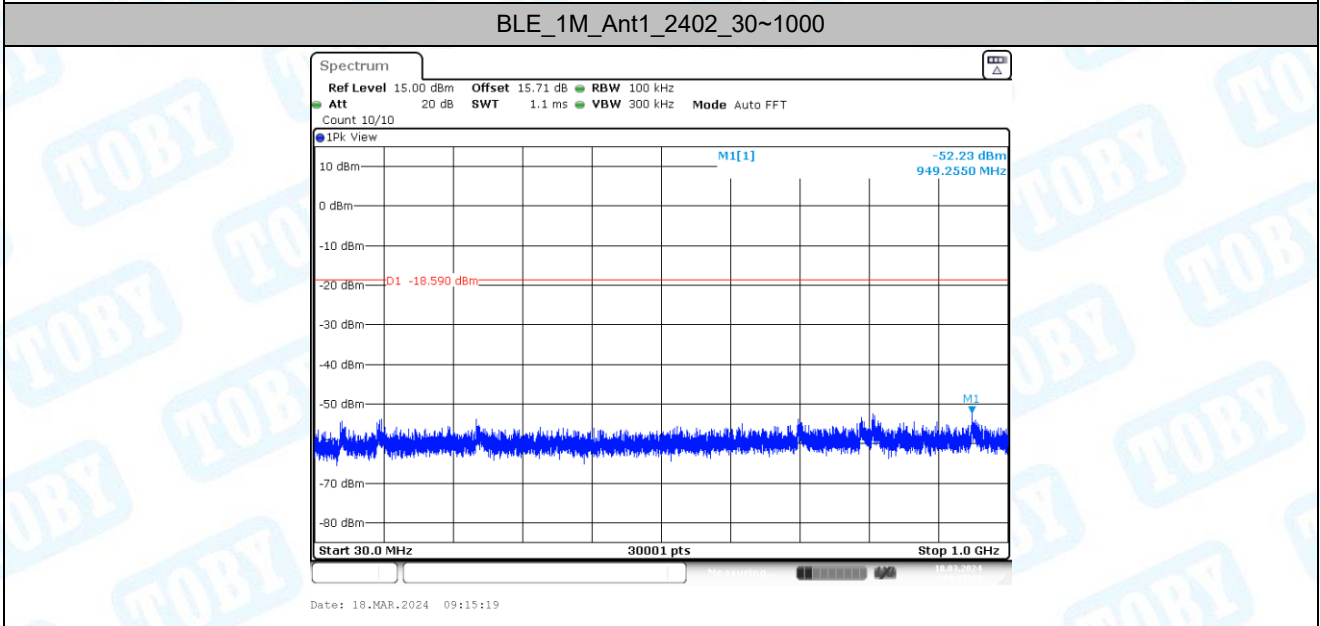
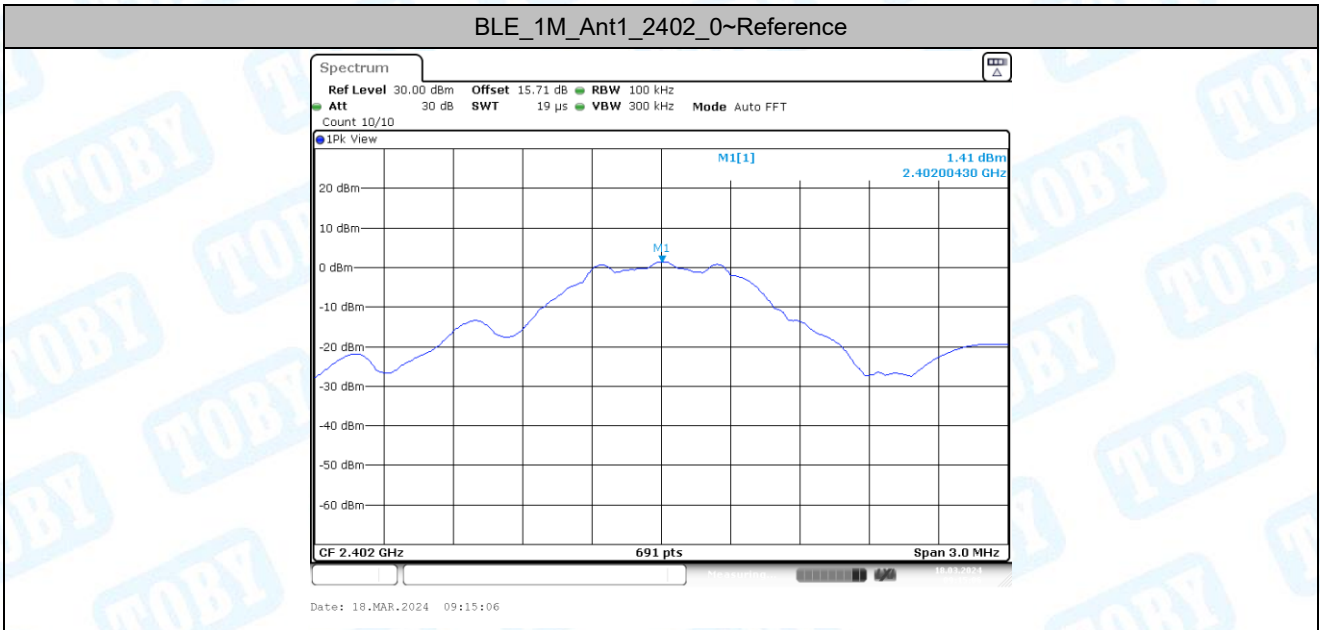


6. Conducted Spurious Emission

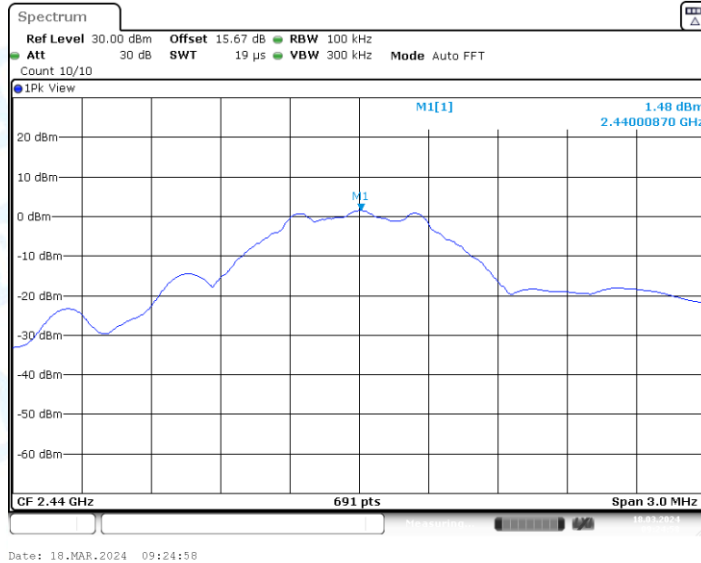
6.1. Test Result

Test Mode	Antenna	Channel	Freq. Range [MHz]	Ref. Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-52.23	≤-18.59	PASS
			1000~26500	1.41	-43.77	≤-18.59	PASS
		2440	Reference	1.48	1.48	---	PASS
			30~1000	1.48	-53.55	≤-18.52	PASS
			1000~26500	1.48	-43.33	≤-18.52	PASS
		2480	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-52.67	≤-18.49	PASS
			1000~26500	1.51	-44.13	≤-18.49	PASS

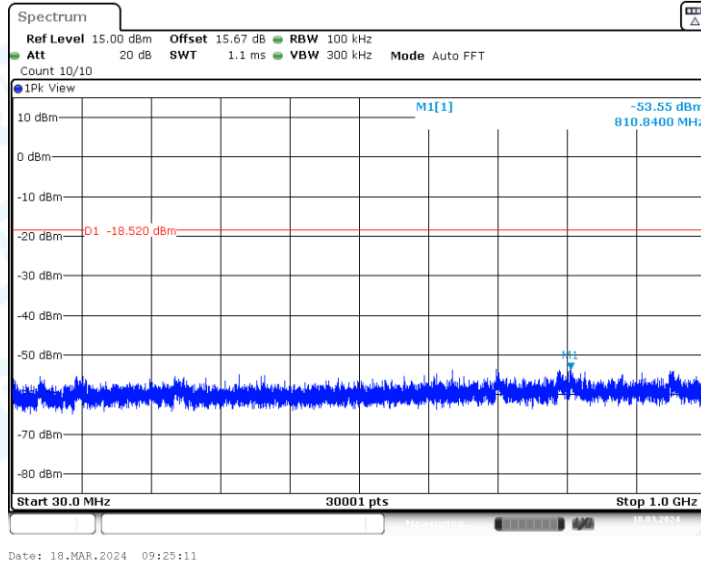
6.2. Test Graphs



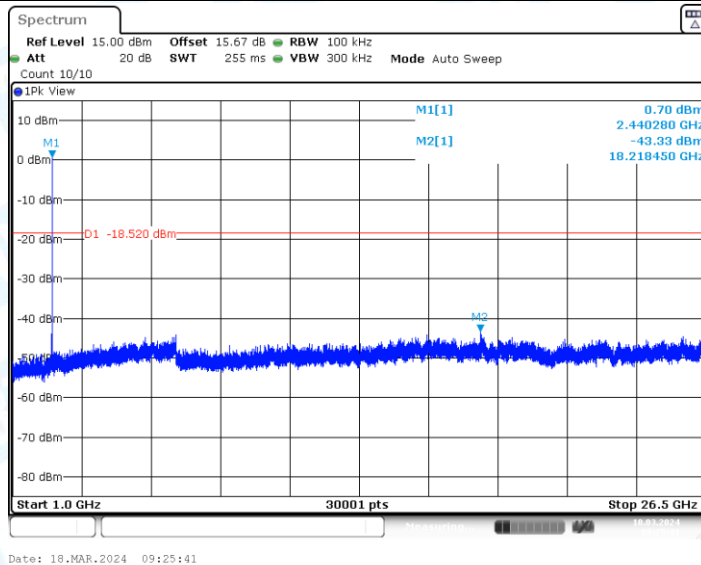
BLE_1M_Ant1_2440_0~Reference



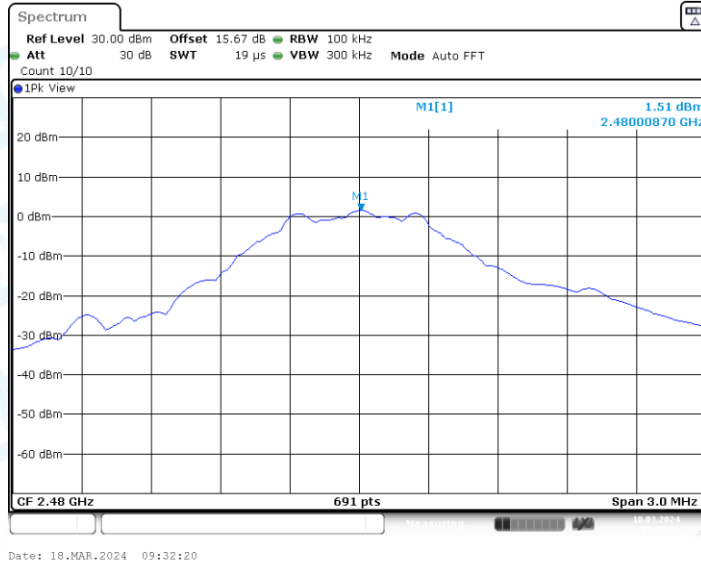
BLE_1M_Ant1_2440_30~1000



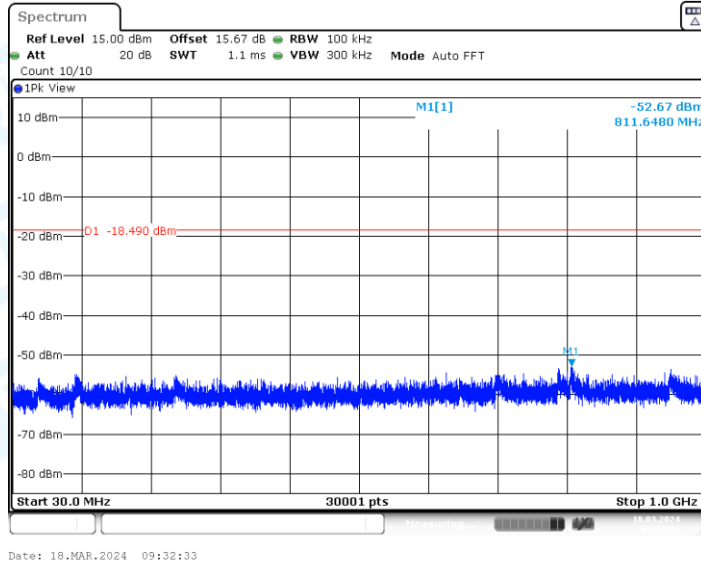
BLE_1M_Ant1_2440_1000~26500



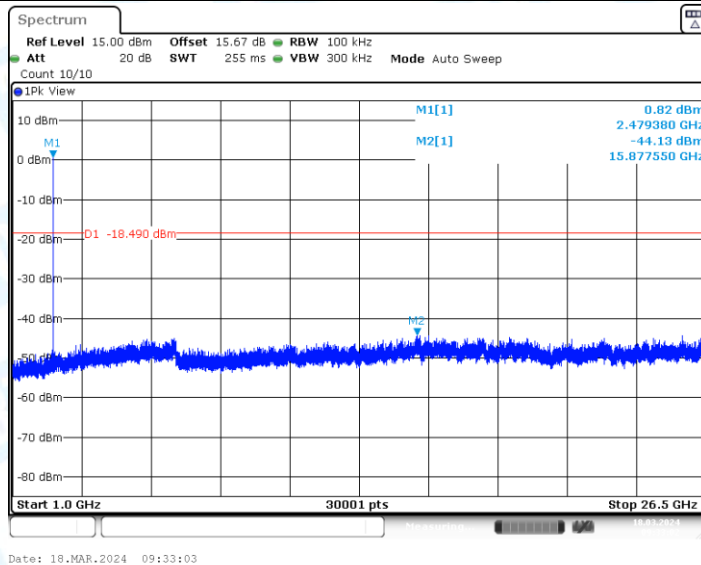
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

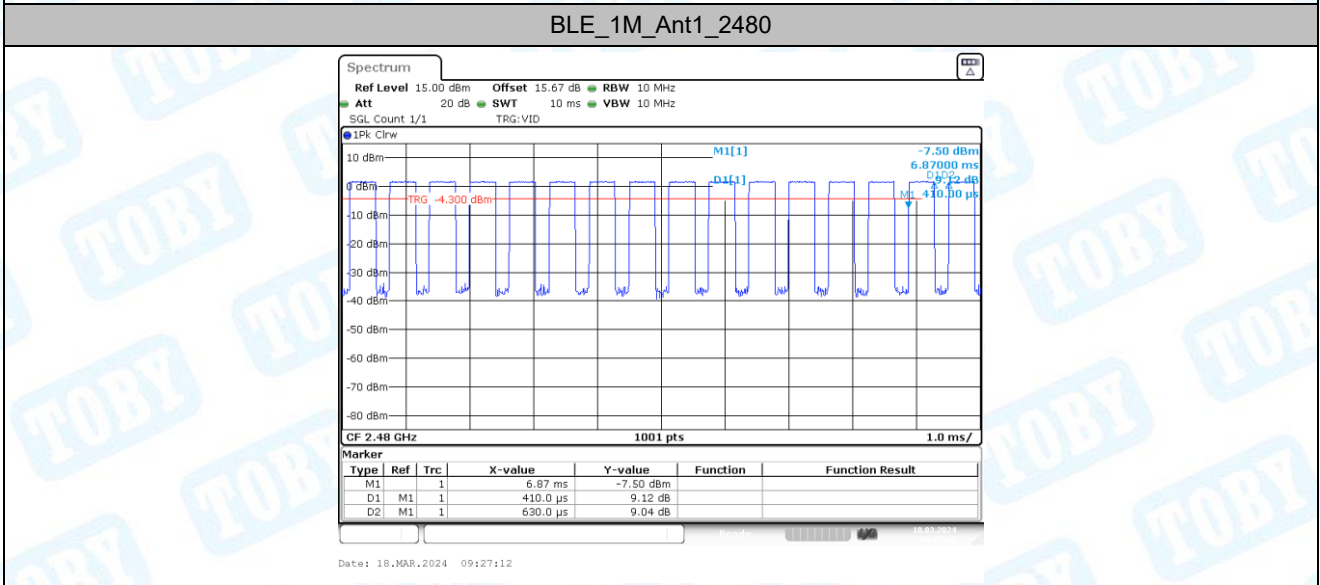
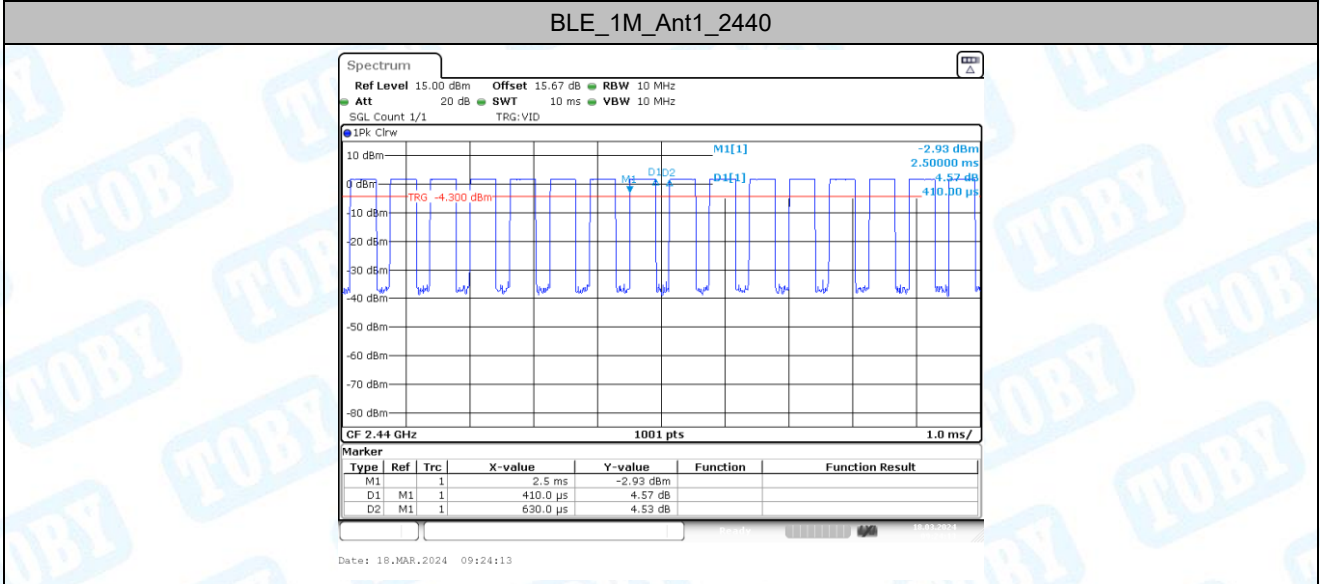
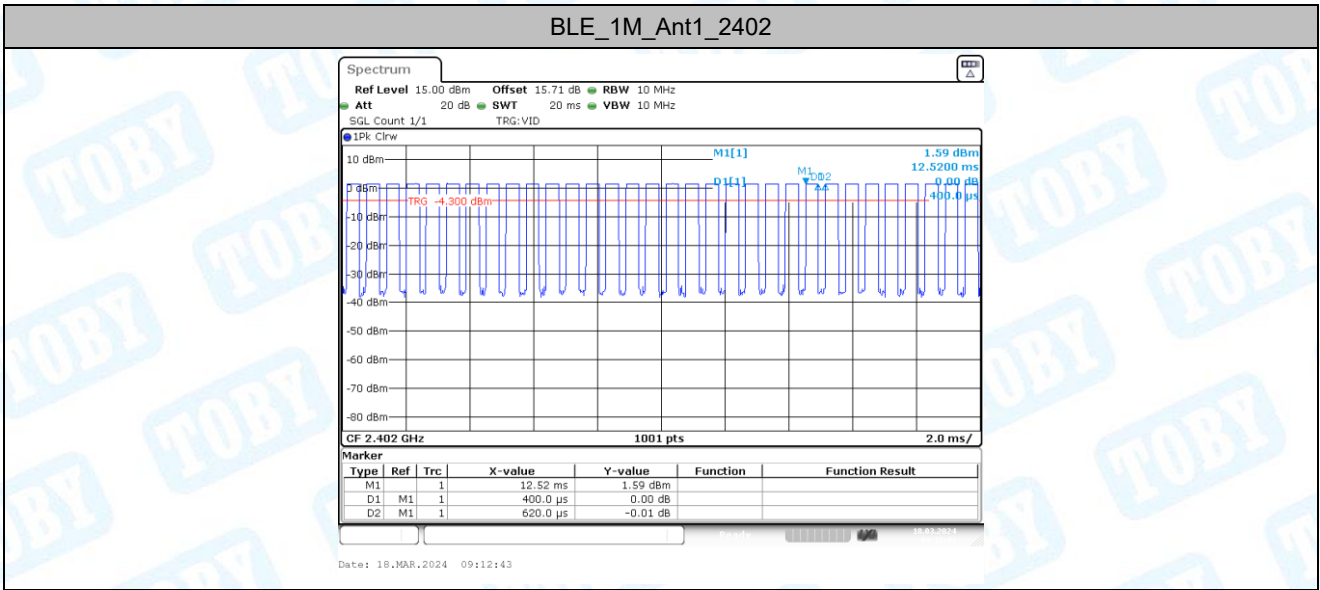


7. Duty Cycle

7.1. Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]	Verdict
BLE_1M	Ant1	2402	0.40	0.62	64.52	2.50	---
		2440	0.41	0.63	65.08	2.43	---
		2480	0.41	0.63	65.08	2.43	---

7.2. Test Graphs



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