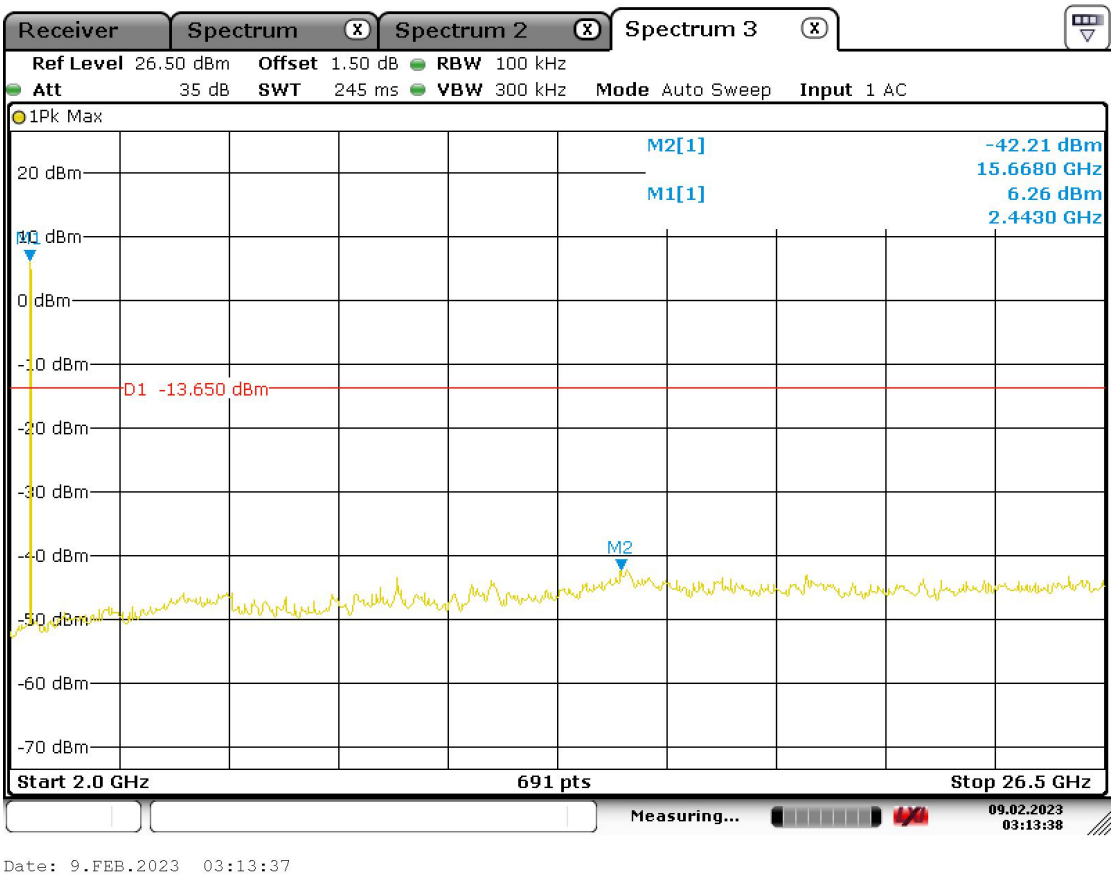
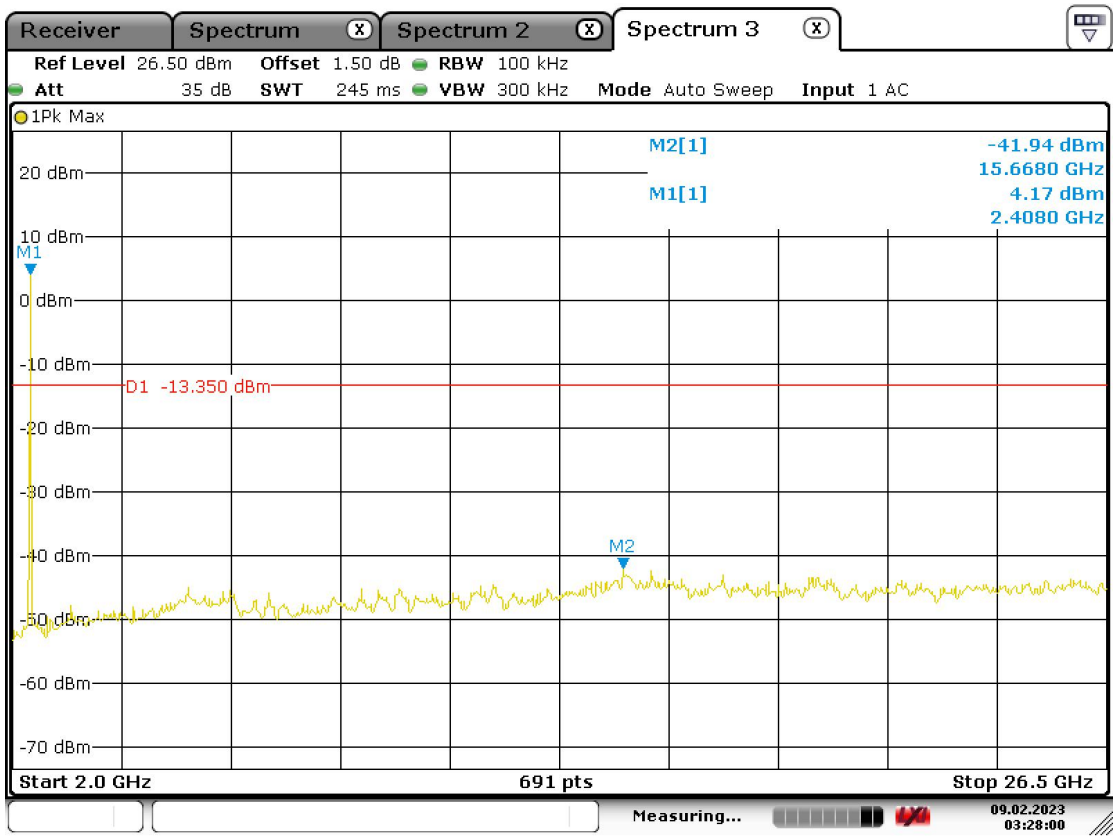
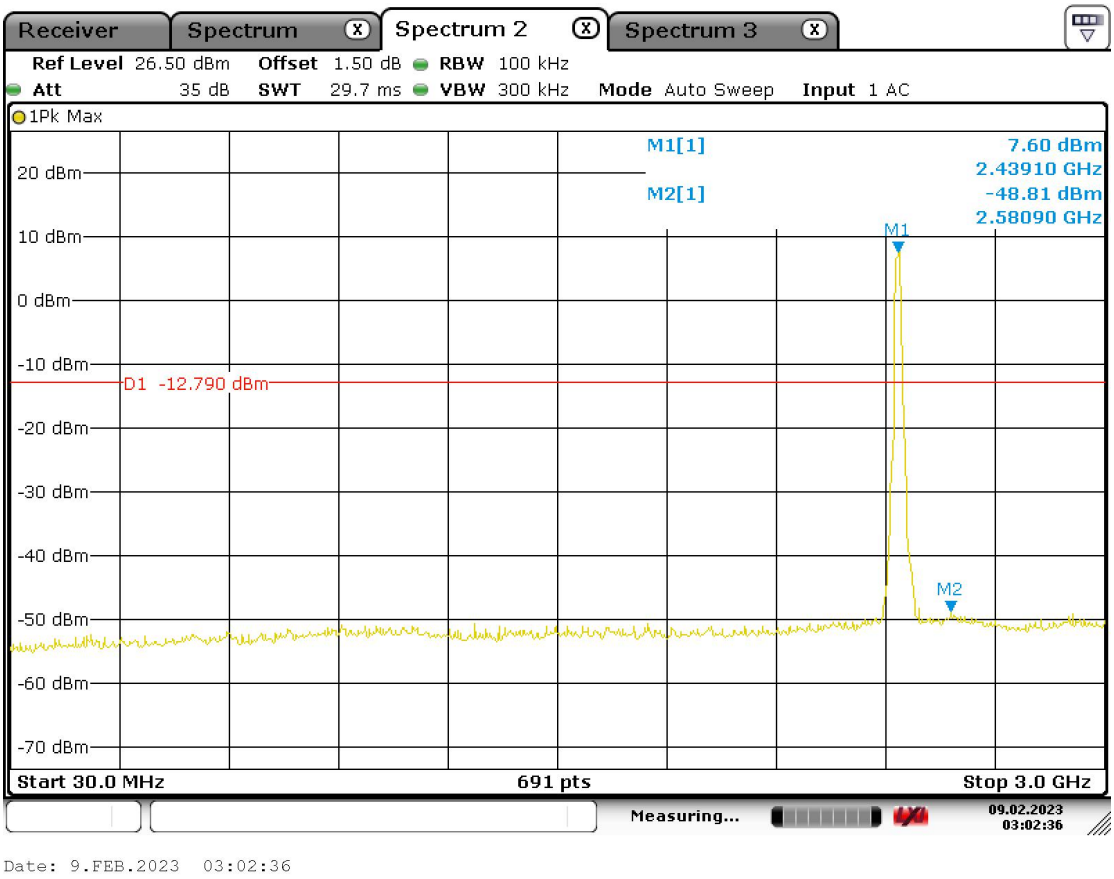


11N20_Ant0_2412_30~3000

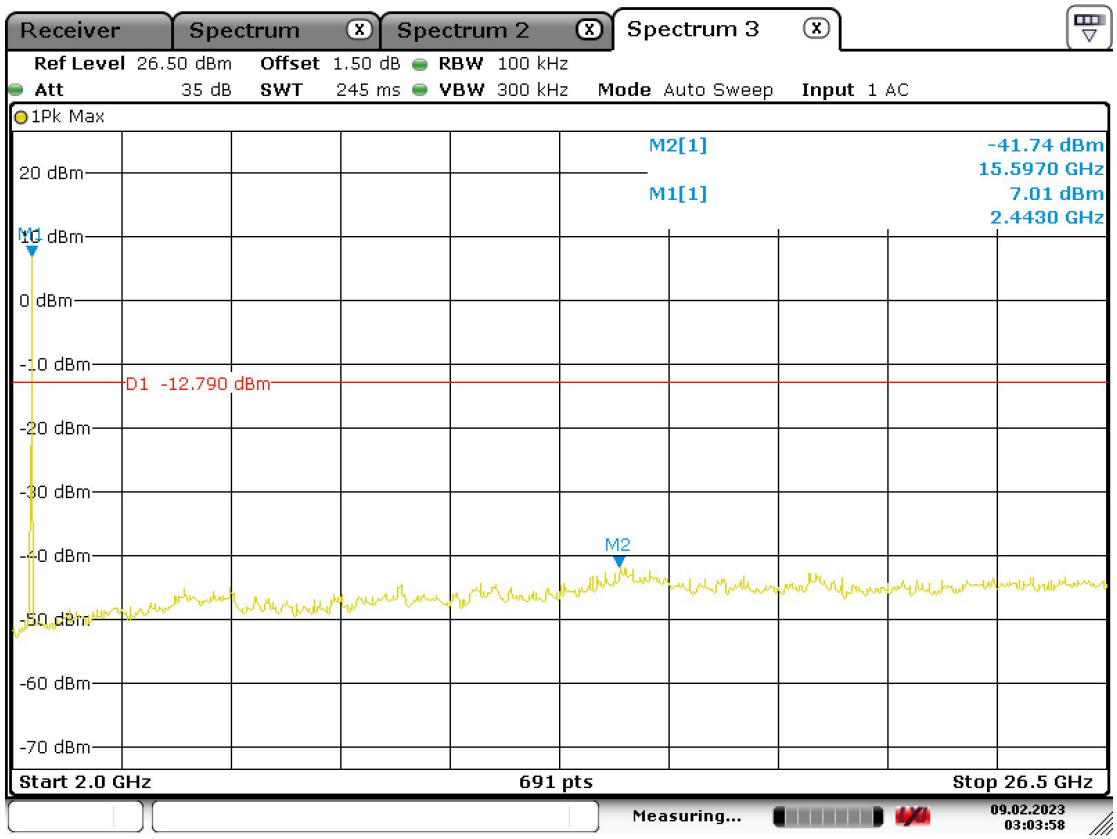
11N20_Ant0_2412_2000~26500



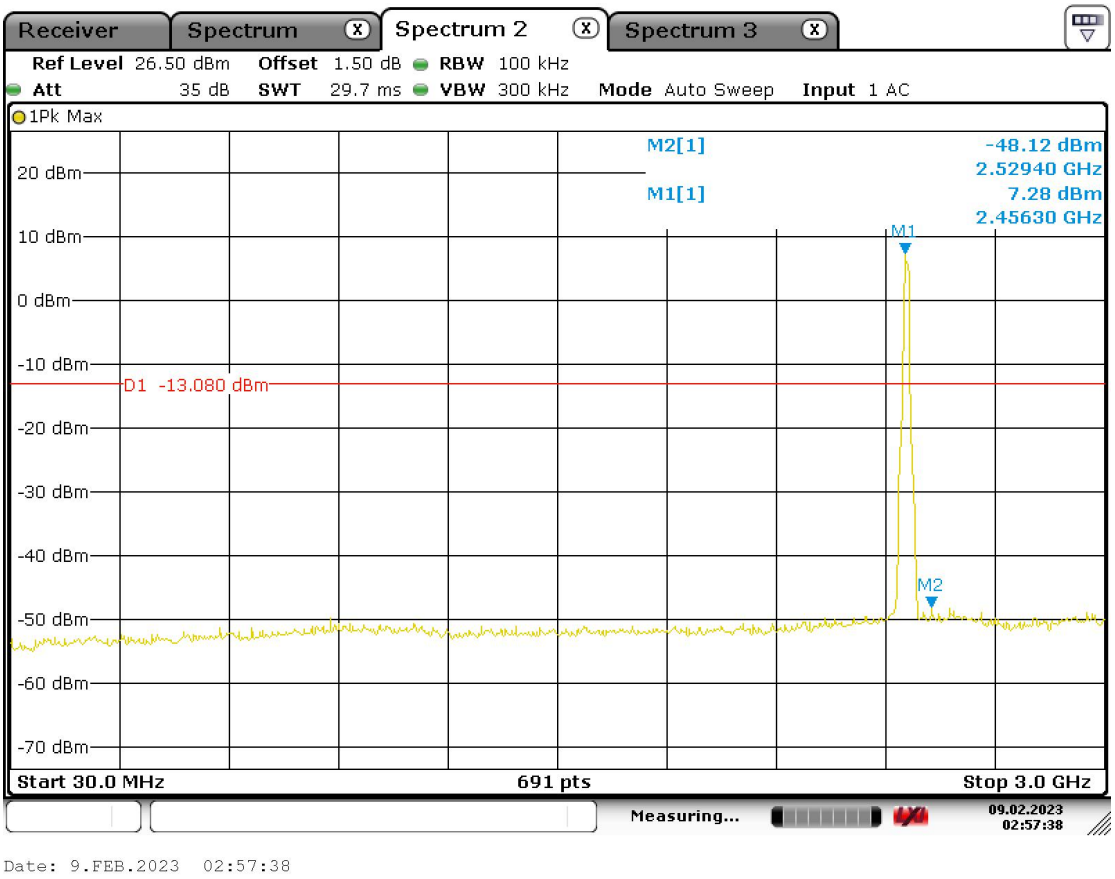
11N20_Ant0_2437_30~3000



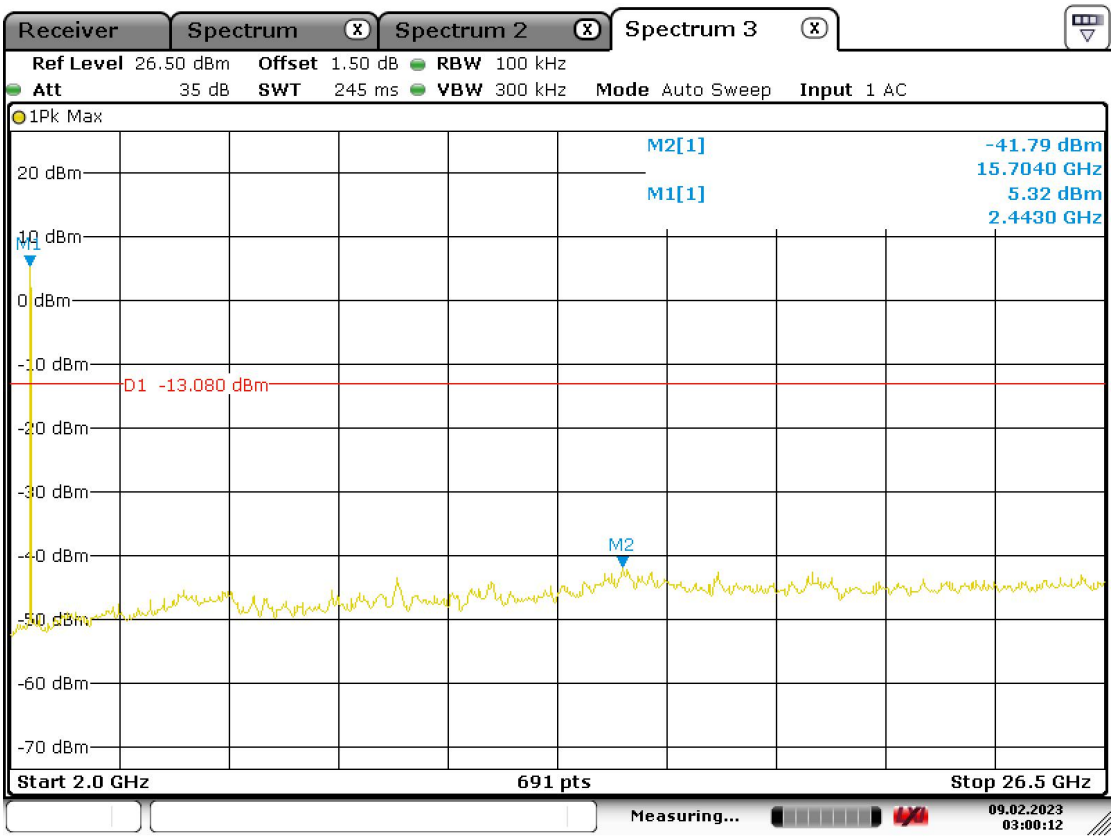
11N20_Ant0_2437_2000~26500



11N20_Ant0_2462_30~3000



11N20_Ant0_2462_2000~26500



Date: 9.FEB.2023 03:00:11

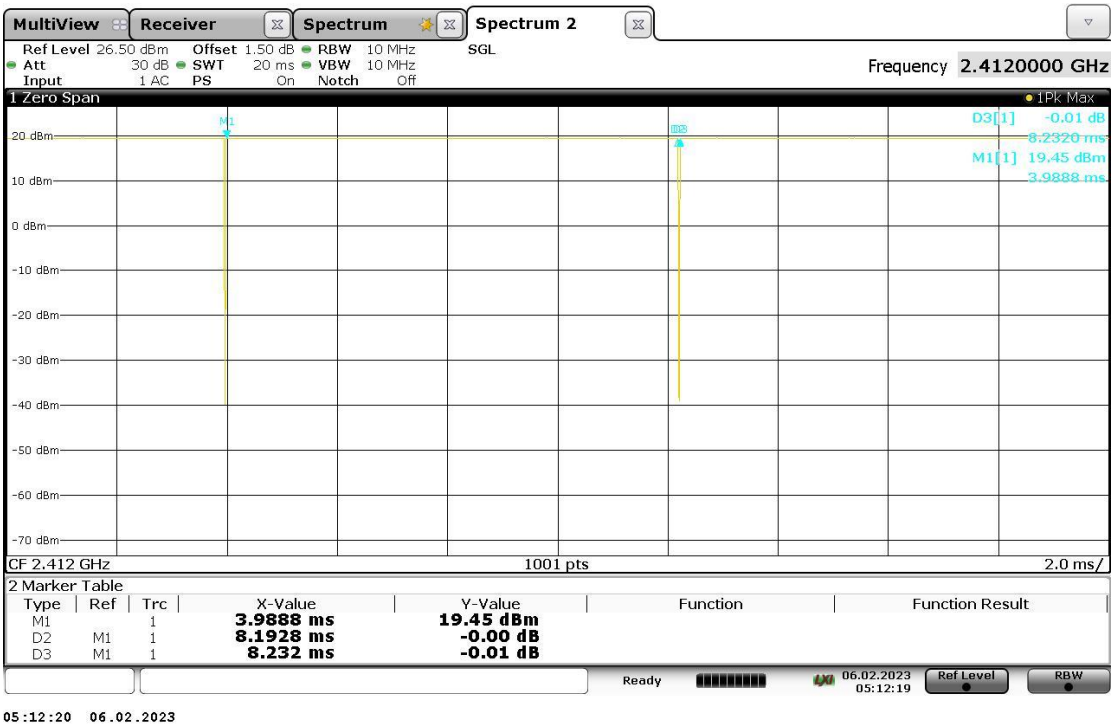
DUTY CYCLE

TEST RESULT

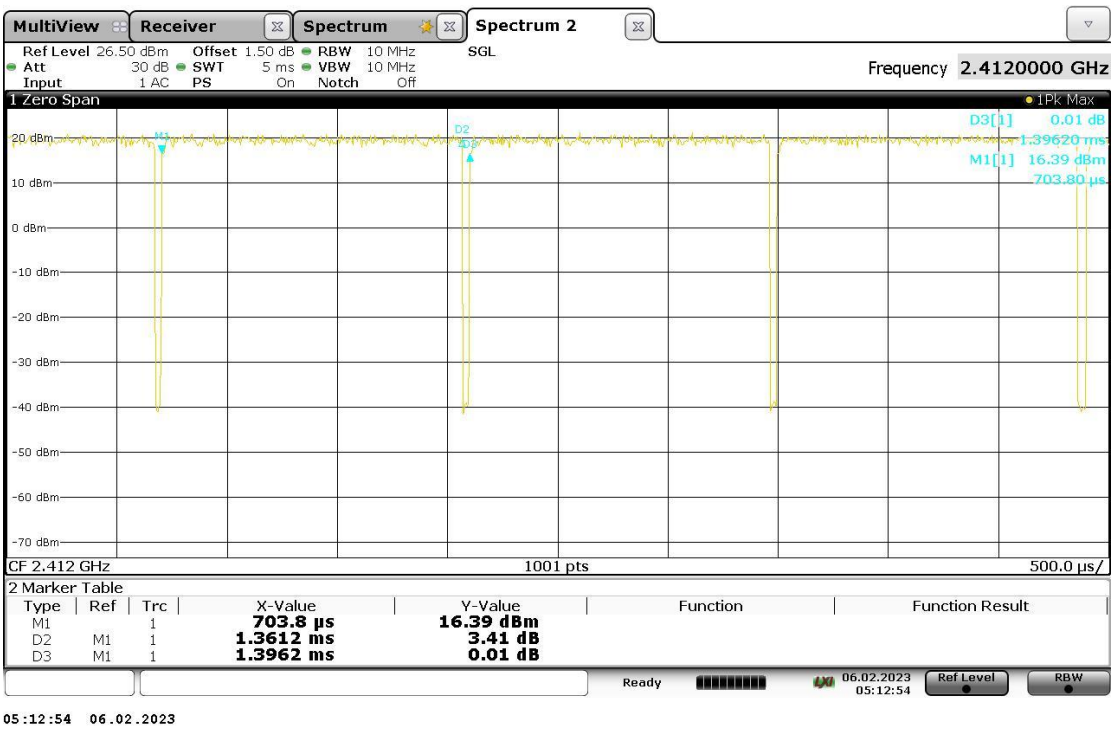
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant0	2412	8.193	8.232	99.52
11G	Ant0	2412	1.361	1.396	97.49
11N20	Ant0	2412	1.276	1.321	96.59

TEST GRAPHS

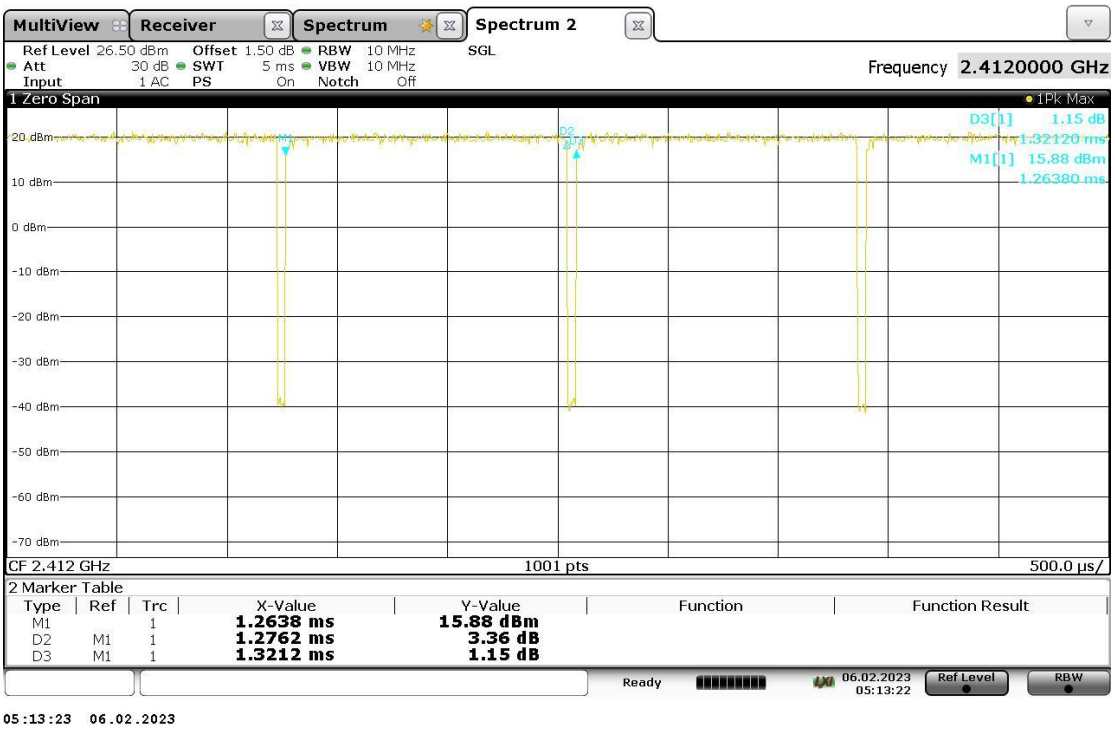
11B_Ant0_2412



11G_Ant0_2412



11N20_Ant0_2412


MultiView
Receiver
Spectrum
Spectrum 2
Ref Level 26.50 dBm Offset 1.50 dB RBW 10 MHz
Att 30 dB SWT 5 ms VBW 10 MHz
Input 1 AC PS On Notch Off
SGL
Frequency 2.4120000 GHz
1 Zero Span
1Pk Max
D3[1] 1.15 dB
1.32120 ms
M1[1] 15.88 dBm
1.26380 ms
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.412 GHz
1001 pts
500.0 µs/
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 1.2638 ms 15.88 dBm
D2 M1 1 1.2762 ms 3.36 dB
D3 M1 1 1.3212 ms 1.15 dB
Ready
06.02.2023
05:13:22
Ref Level
RBW
05:13:23 06.02.2023

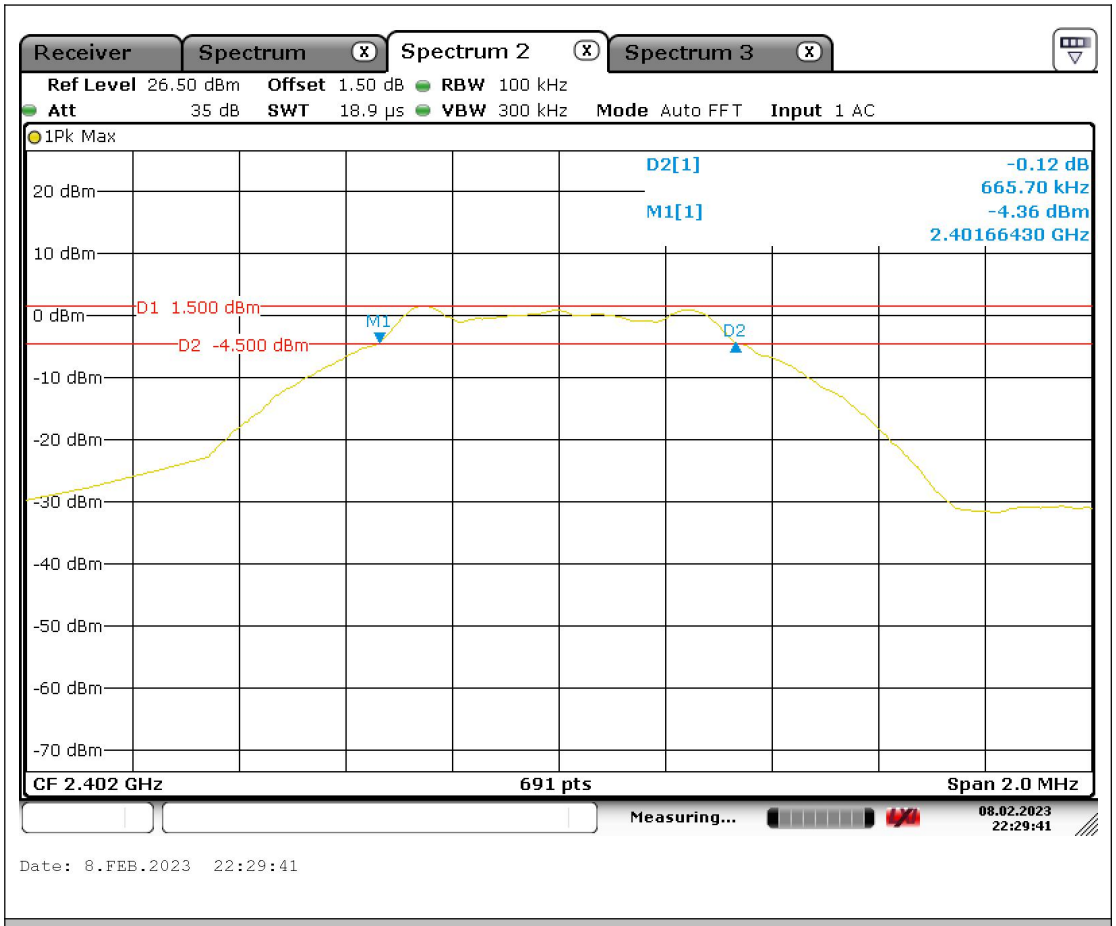
7 Appendix 2 BLE

DTS BANDWIDTH

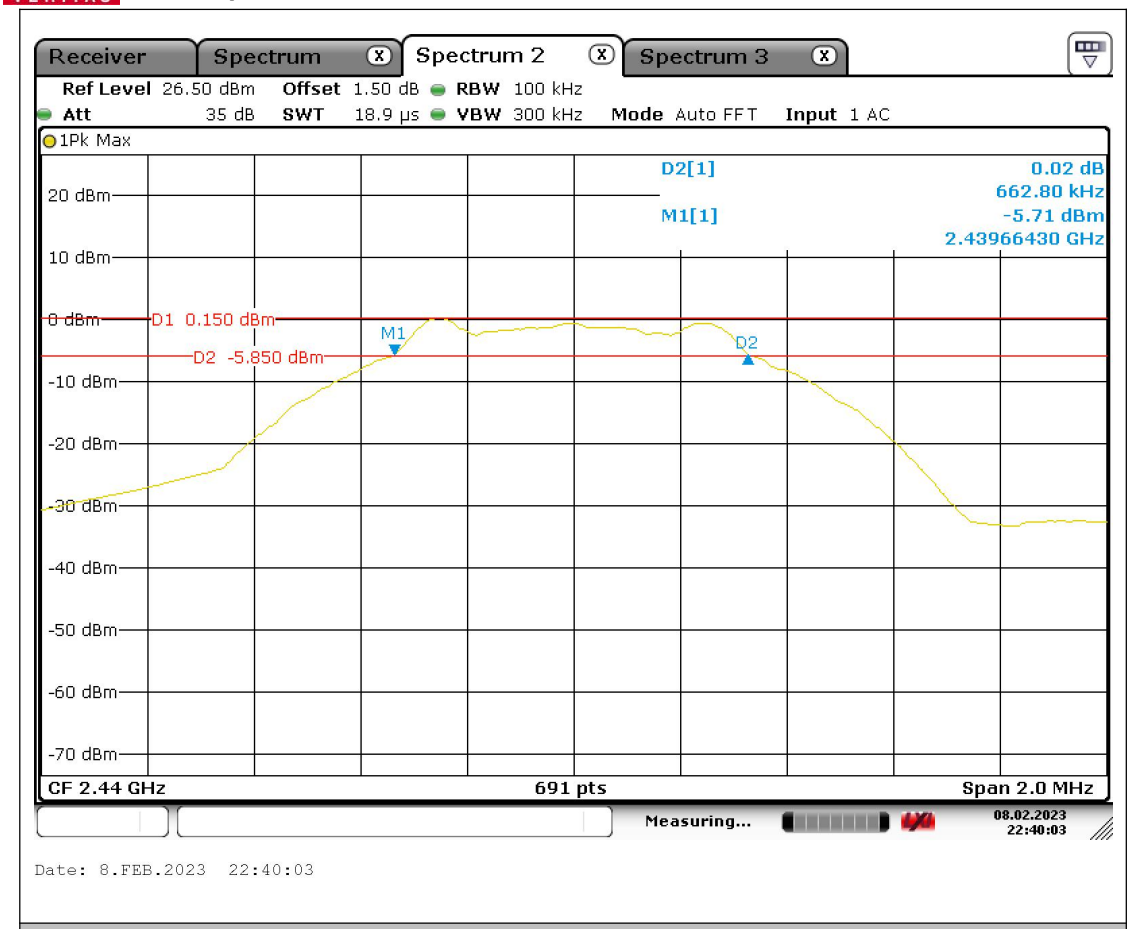
TEST RESULT

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.666	2401.664	2402.330	0.5	PASS
		2440	0.663	2439.664	2440.327	0.5	PASS
		2480	0.666	2479.661	2480.327	0.5	PASS

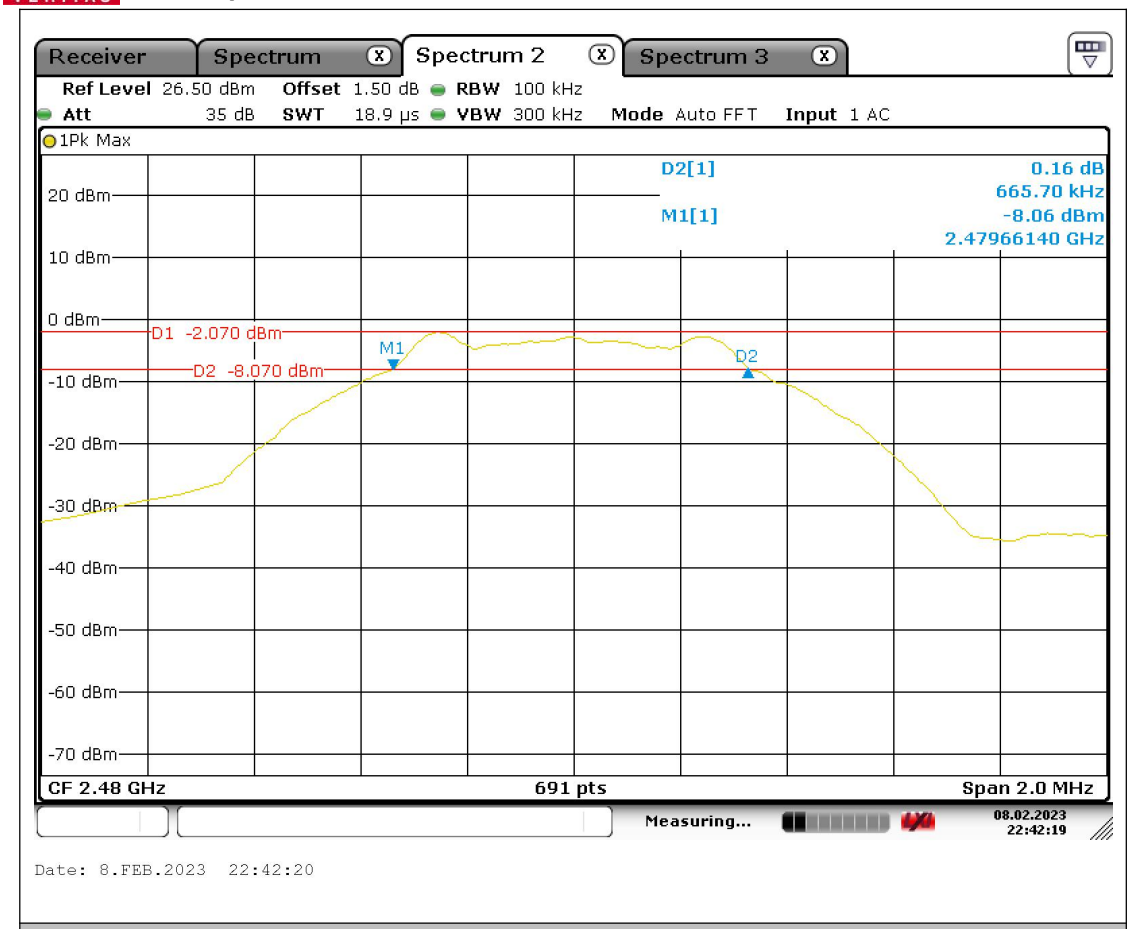
TEST GRAPHS



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



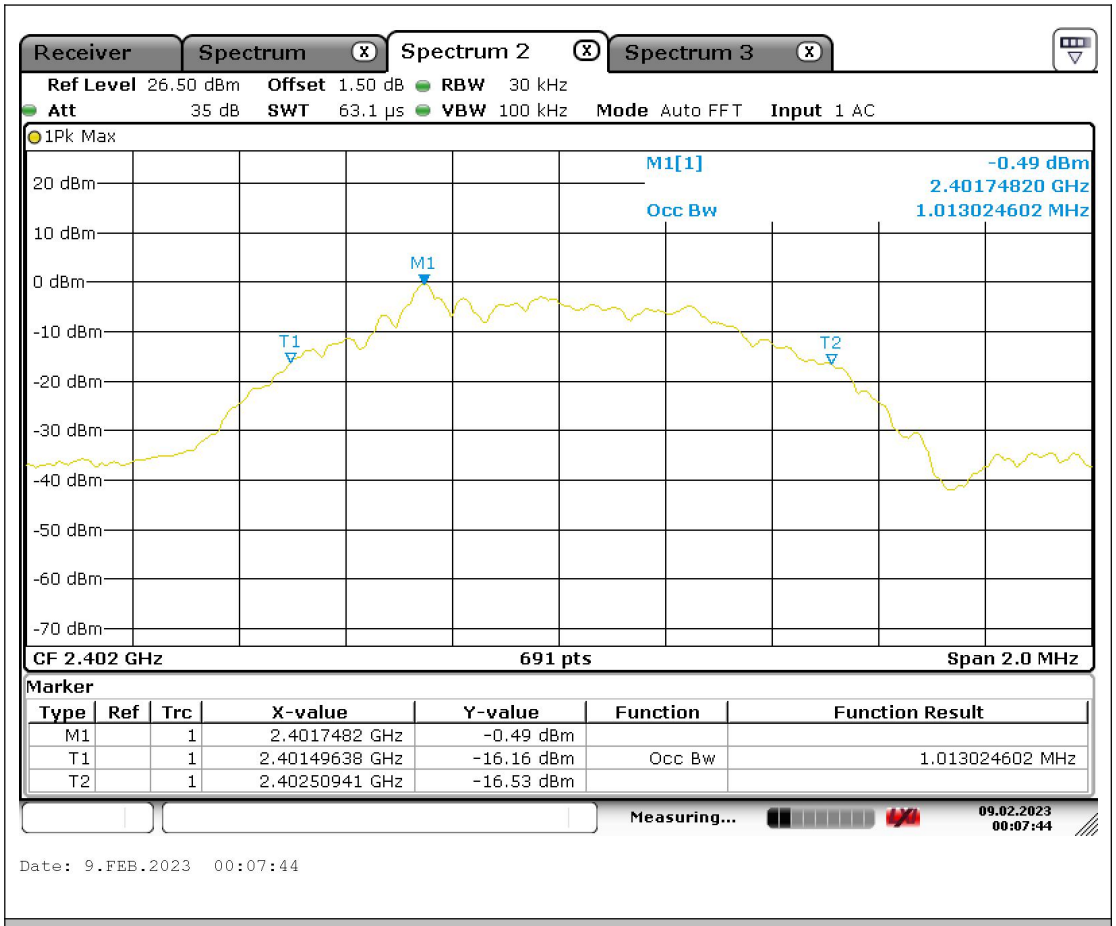
BLE_1M_Ant1_2480

OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

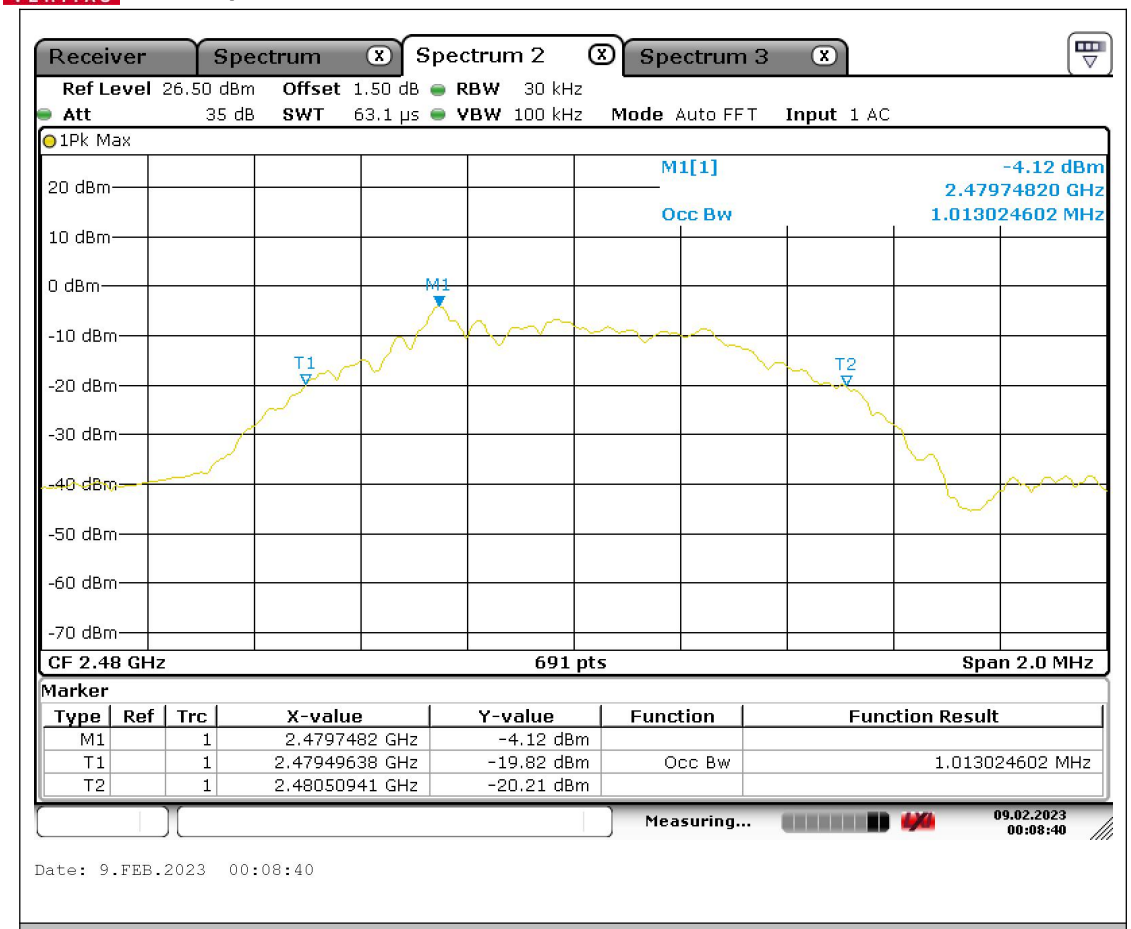
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0130	2401.496	2402.509	---	PASS
		2440	1.0130	2439.496	2440.509	---	PASS
		2480	1.0130	2479.496	2480.509	---	PASS

TEST GRAPHS



BLE_1M_Ant1_2402

BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK

TestMode	Antenna	Channel	Peak Powert[dBm]	Peak Powert[mw]	Conducted Limit[dBm]	Verdict	Power setting
1M	Ant1	2402	0.86	1.22	≤30	PASS	Defult
		2440	0.37	1.09	≤30	PASS	Defult
		2480	-0.94	0.81	≤30	PASS	Defult

TEST RESULT AVERAGE

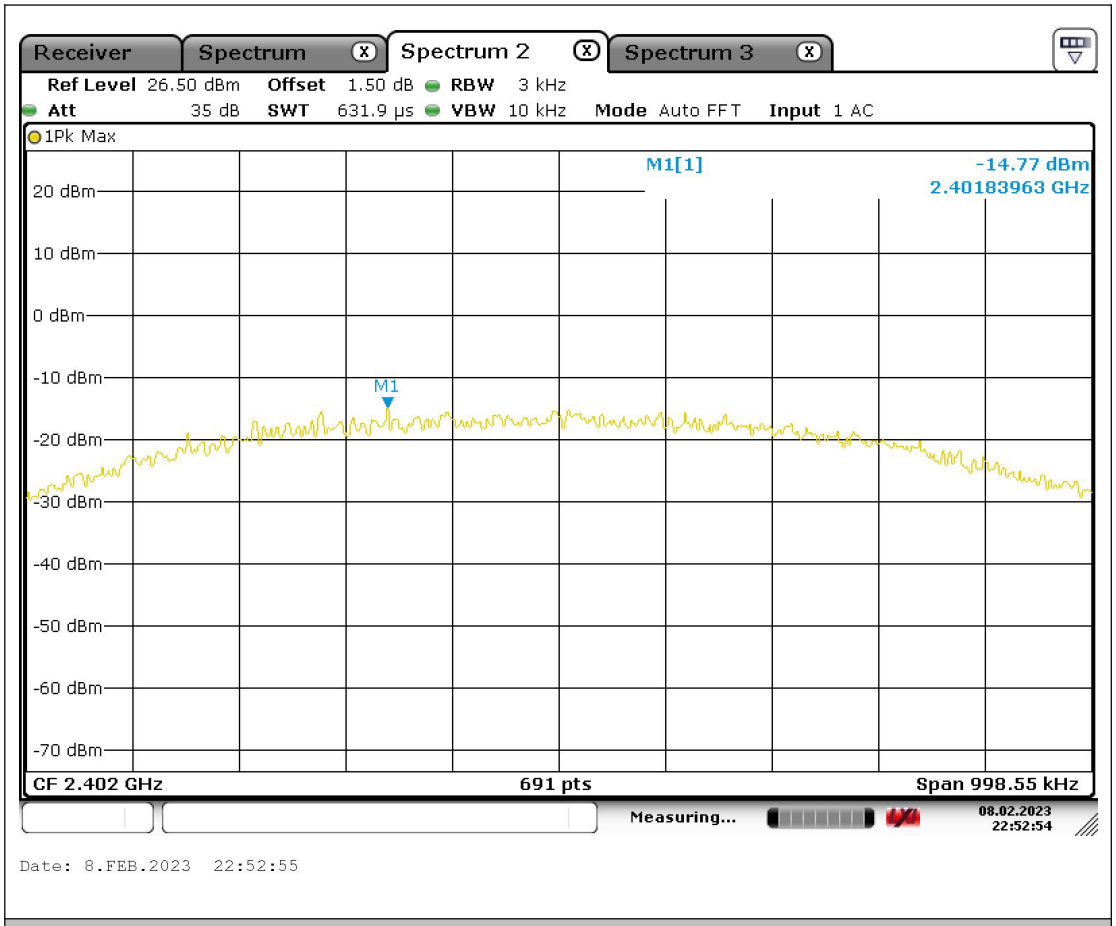
TestMode	Antenna	Channel	Average Power	Conducted Limit[dBm]	Verdict	Power setting
1M	Ant1	2402	0.57	/	PASS	Defult
		2440	-0.14	/	PASS	Defult
		2480	-1.21	/	PASS	Defult

MAXIMUM POWER SPECTRAL DENSITY

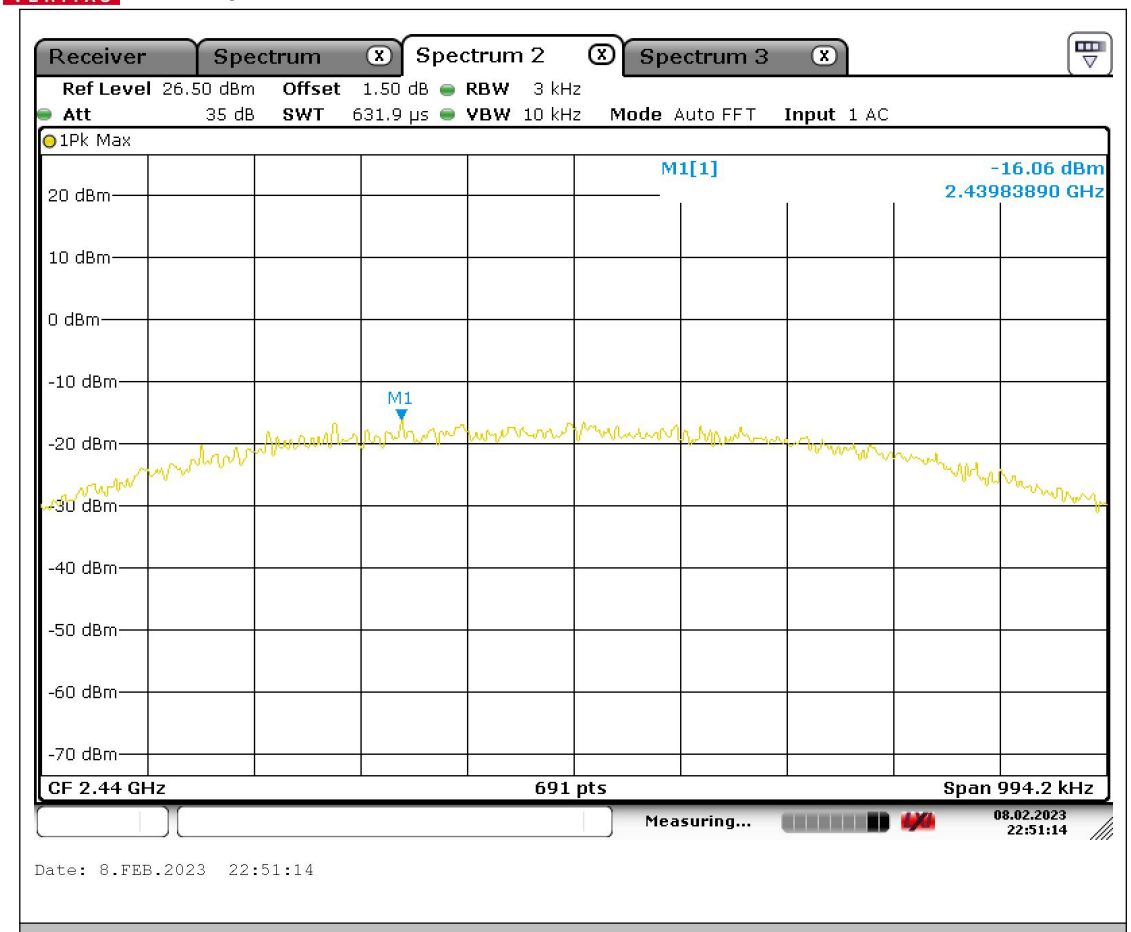
TEST RESULT

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.77	≤8	PASS
		2440	-16.06	≤8	PASS
		2480	-18.42	≤8	PASS

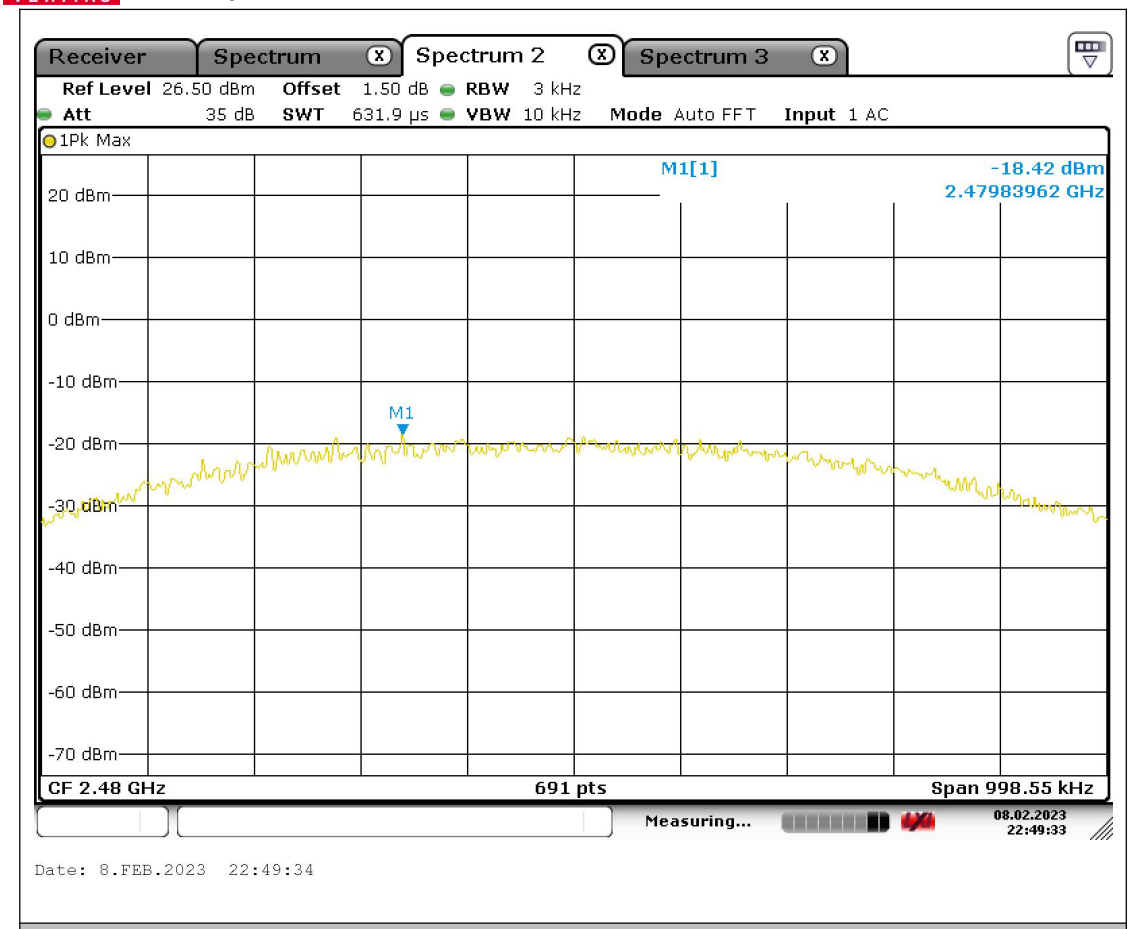
TEST GRAPHS



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



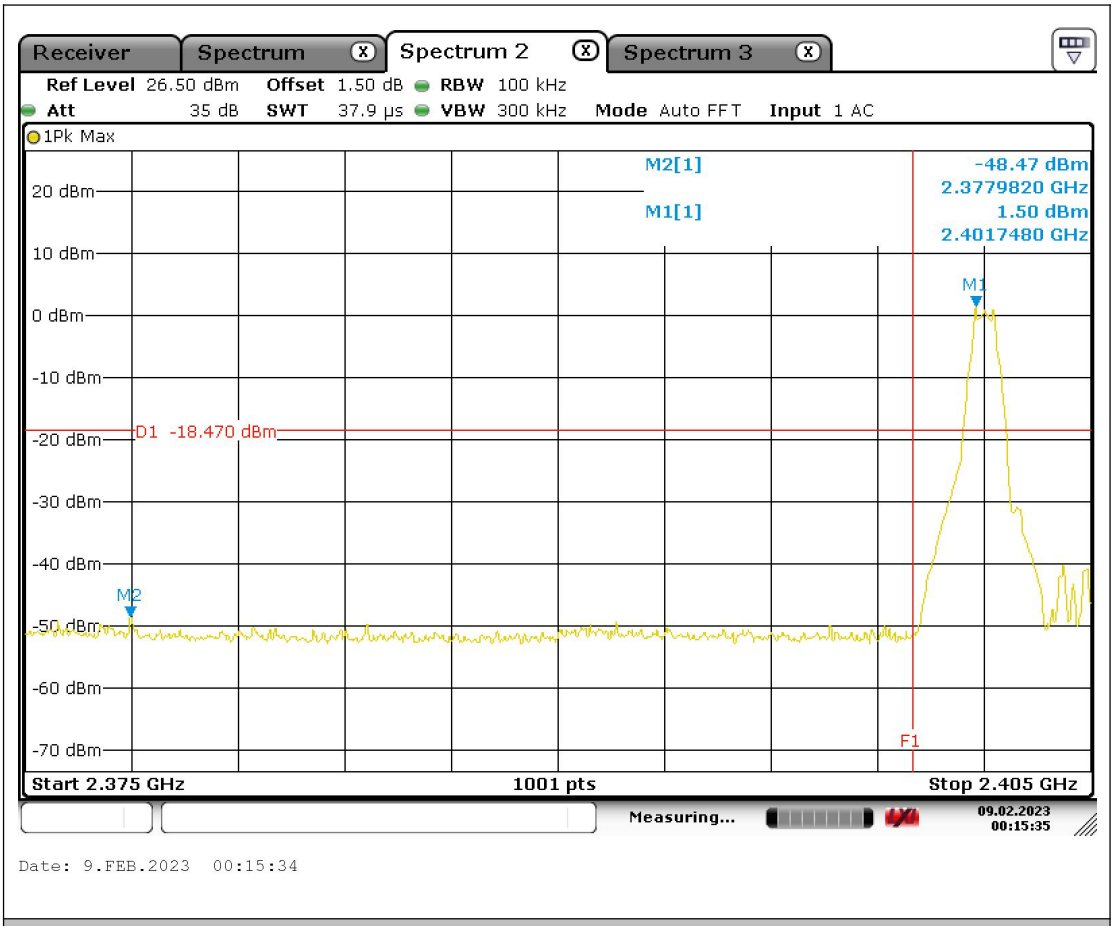
BLE_1M_Ant1_2480

BAND EDGE MEASUREMENTS

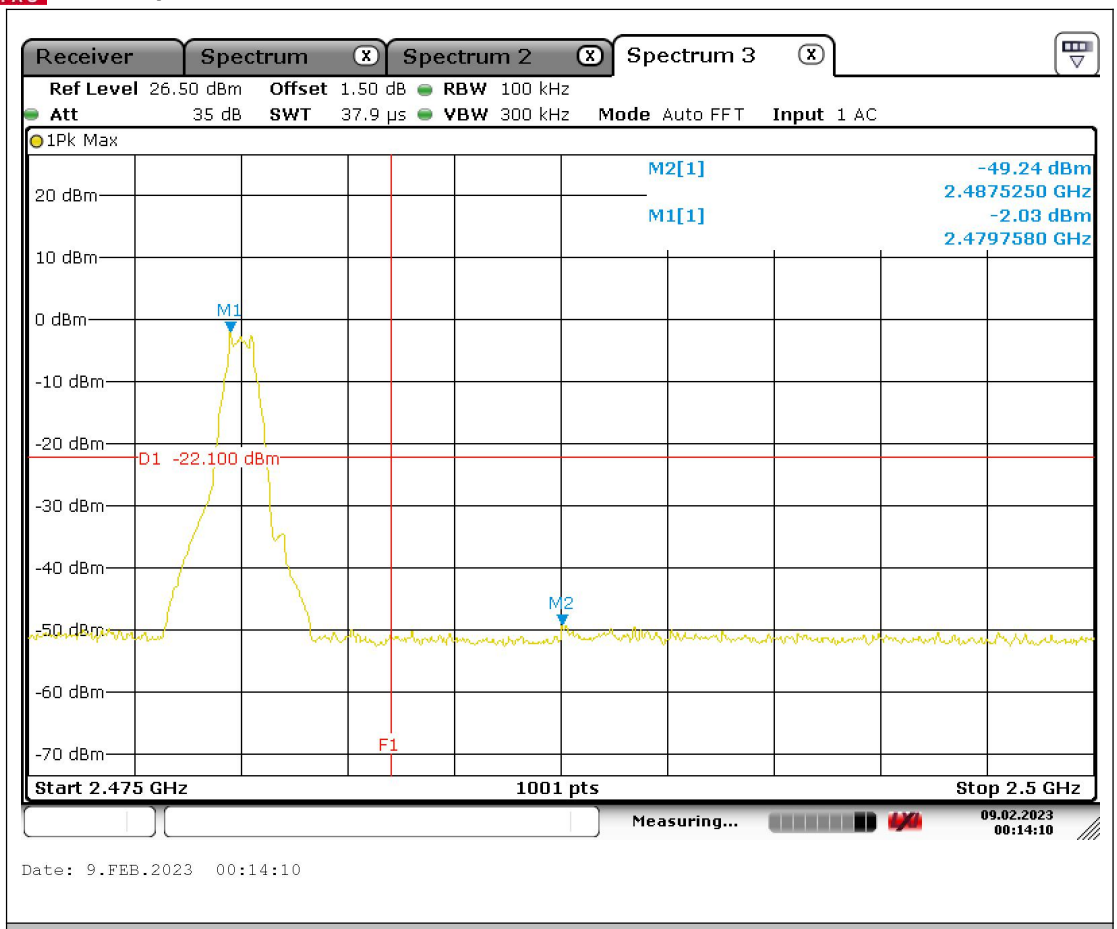
TEST RESULT

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.53	-48.47	≤-18.47	PASS
		High	2480	-2.10	-49.24	≤-22.10	PASS

TEST GRAPHS



BLE_1M_Ant1_Low_2402



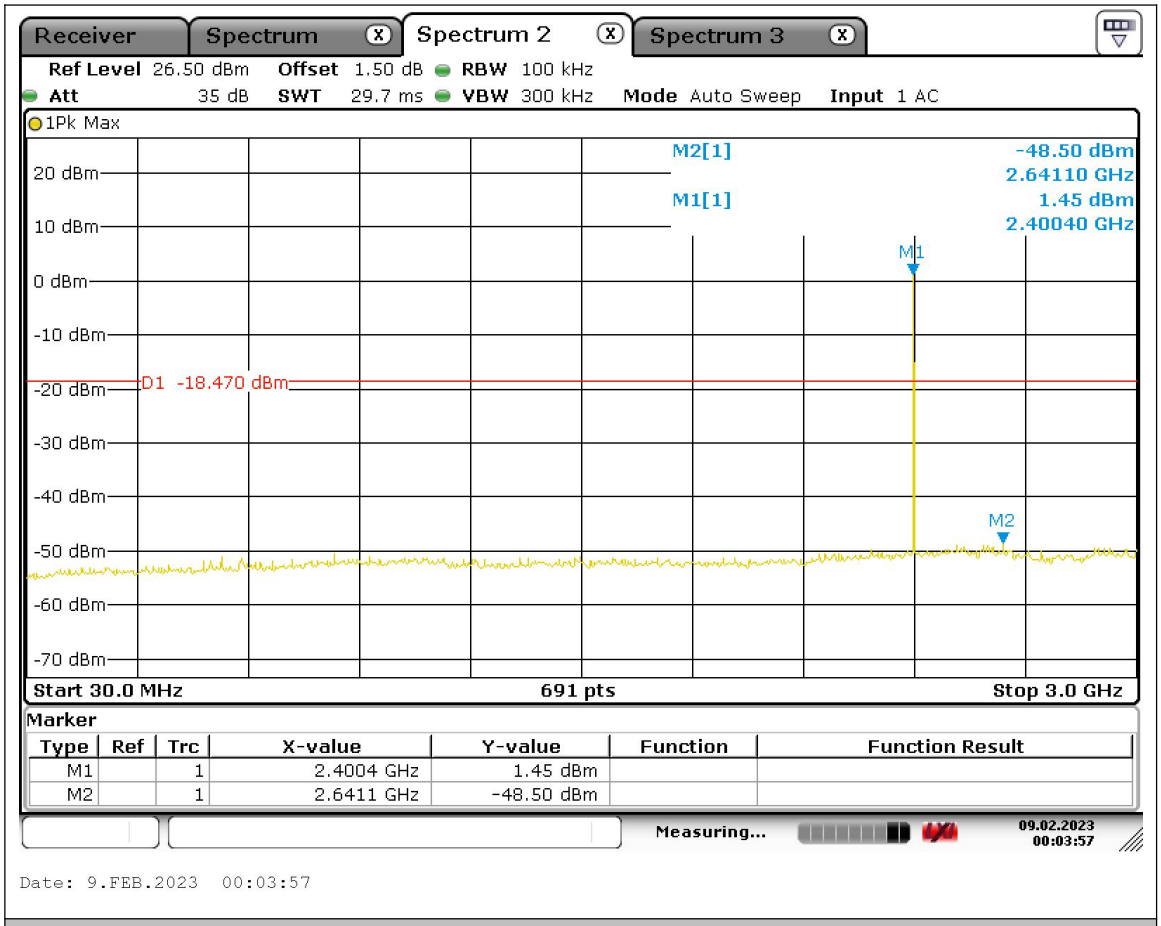
BLE_1M_Ant1_High_2480

CONDUCTED SPURIOUS EMISSION

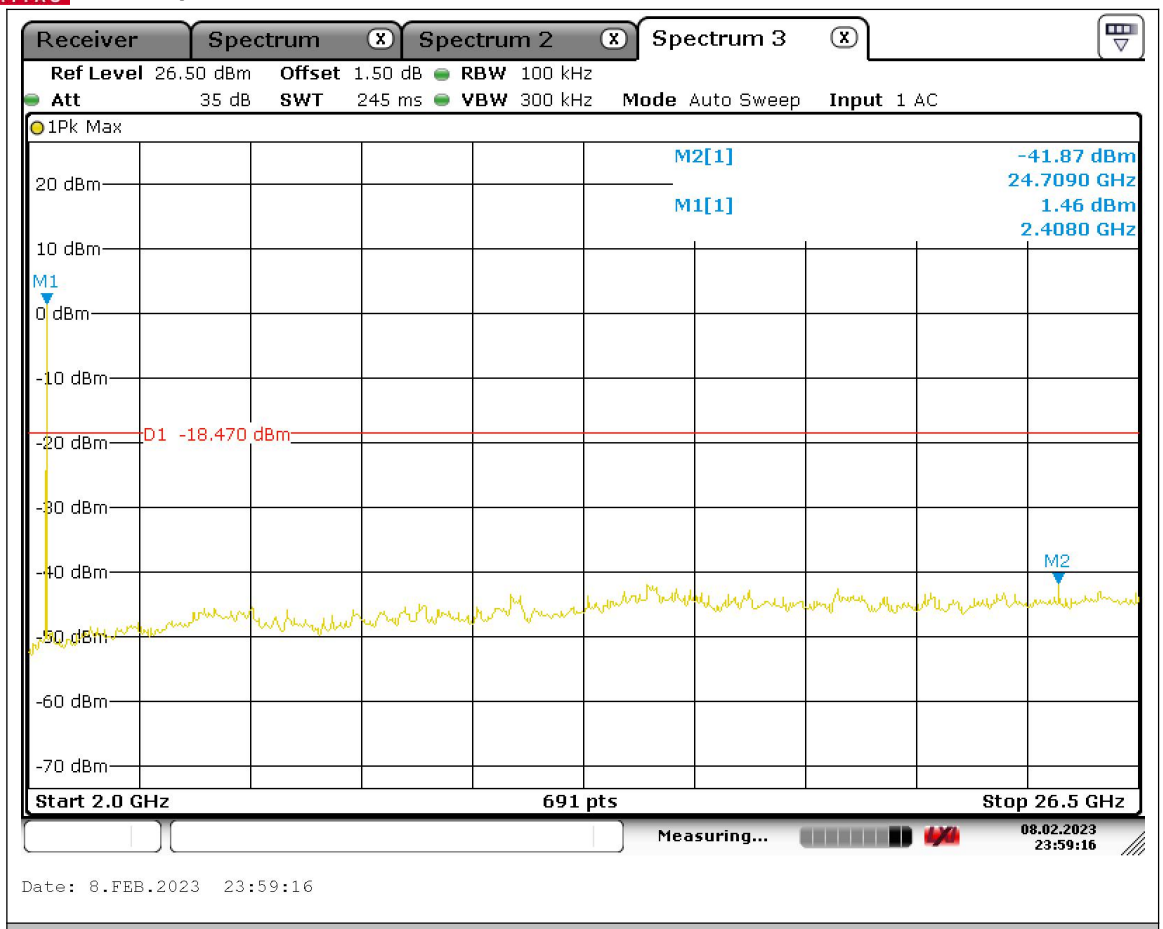
TEST RESULT

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~3000	1.53	-48.50	≤-18.47	PASS
			2000~26500	1.53	-41.87	≤-18.47	PASS
		2440	30~3000	0.14	-49.59	≤-19.86	PASS
			2000~26500	0.14	-42.20	≤-19.86	PASS
		2480	30~3000	-2.10	-49.15	≤-22.10	PASS
			2000~26500	-2.10	-42.01	≤-22.10	PASS

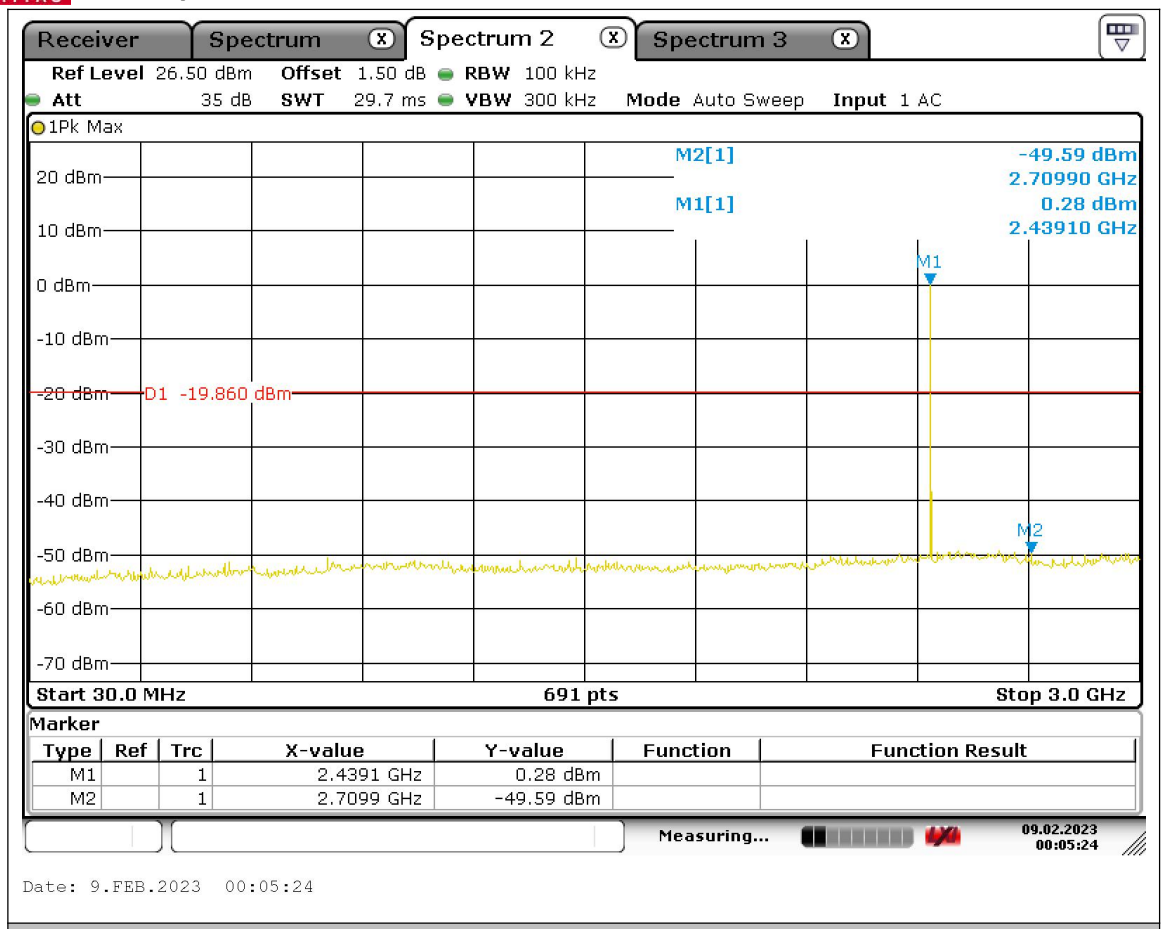
TEST GRAPHS



BLE_1M_Ant1_2402_30~3000

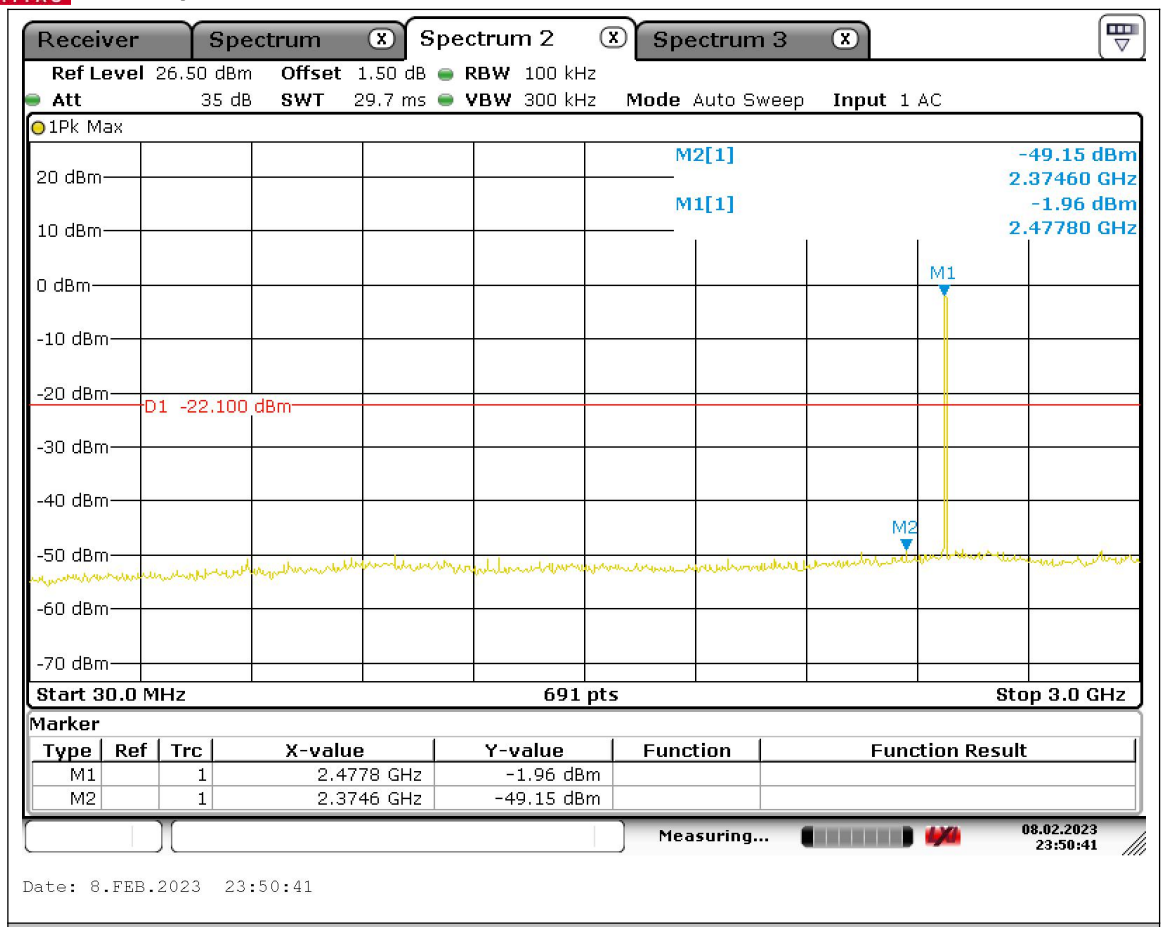


BLE_1M_Ant1_2402_2000~26500

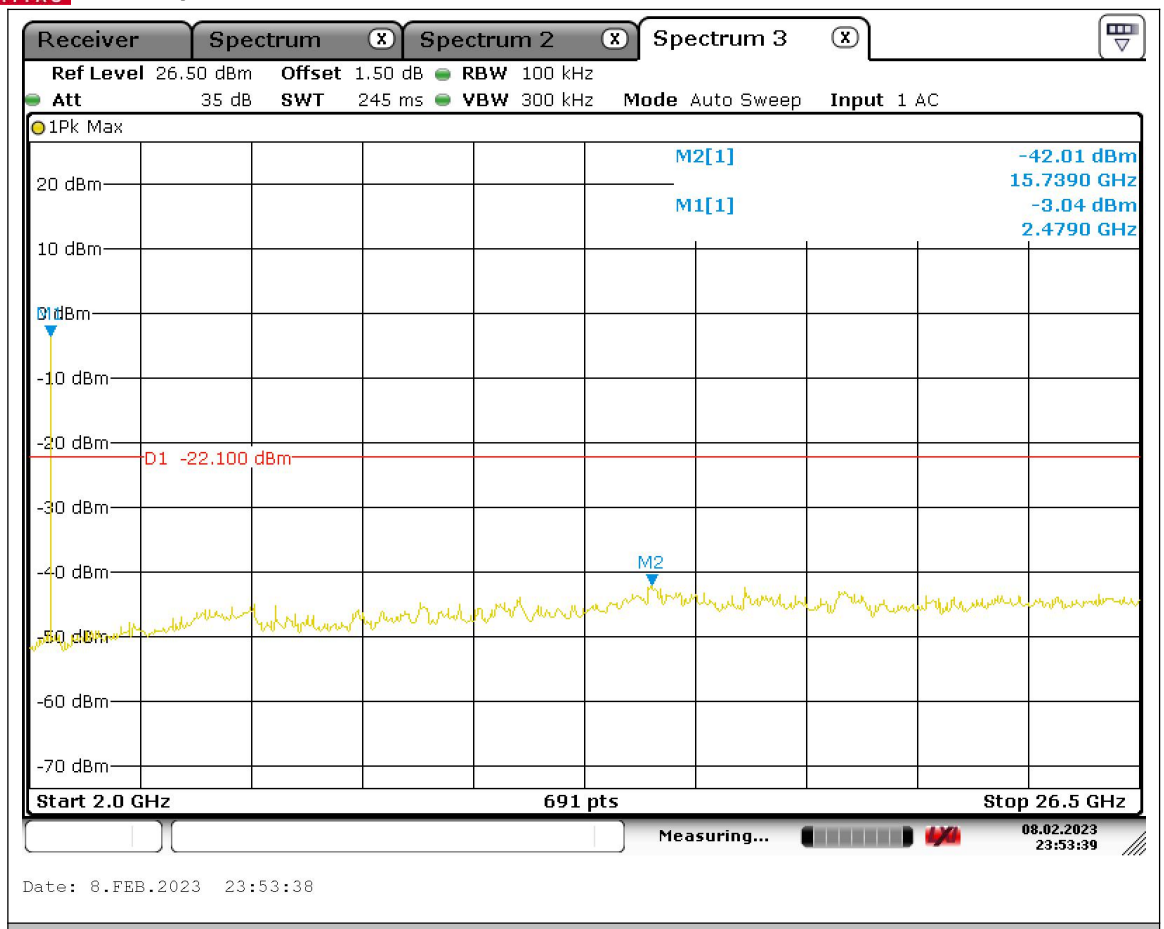


BLE_1M_Ant1_2440_30~3000

BLE_1M_Ant1_2440_2000~26500



BLE_1M_Ant1_2480_30~3000



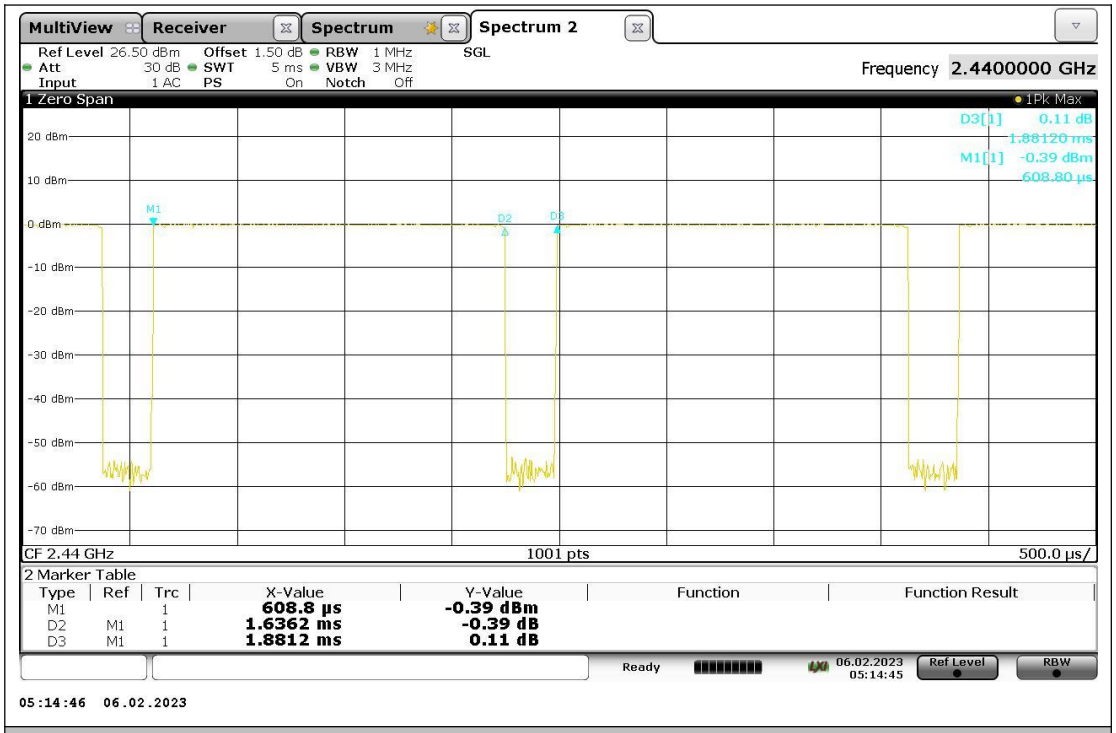
BLE_1M_Ant1_2480_2000~26500

DUTY CYCLE

TEST RESULT

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2440	1.636	1.88	0.8698	86.98	0.61	---	PASS

TEST GRAPHS



BLE_1M_Ant1_2440

---END---