

RF Test Data for BLE (Conducted Measurements)

General Description of EUT	
EUT Name:	Smartphone
Model:	HiBreak Plus
Sample ID:	HC-C-202512-0174-08-01-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25℃
Ambient Humidity:	45%RH
Test Power Supply:	DC 3.85V
Test Engineer:	Gold. Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202512-0174-131	

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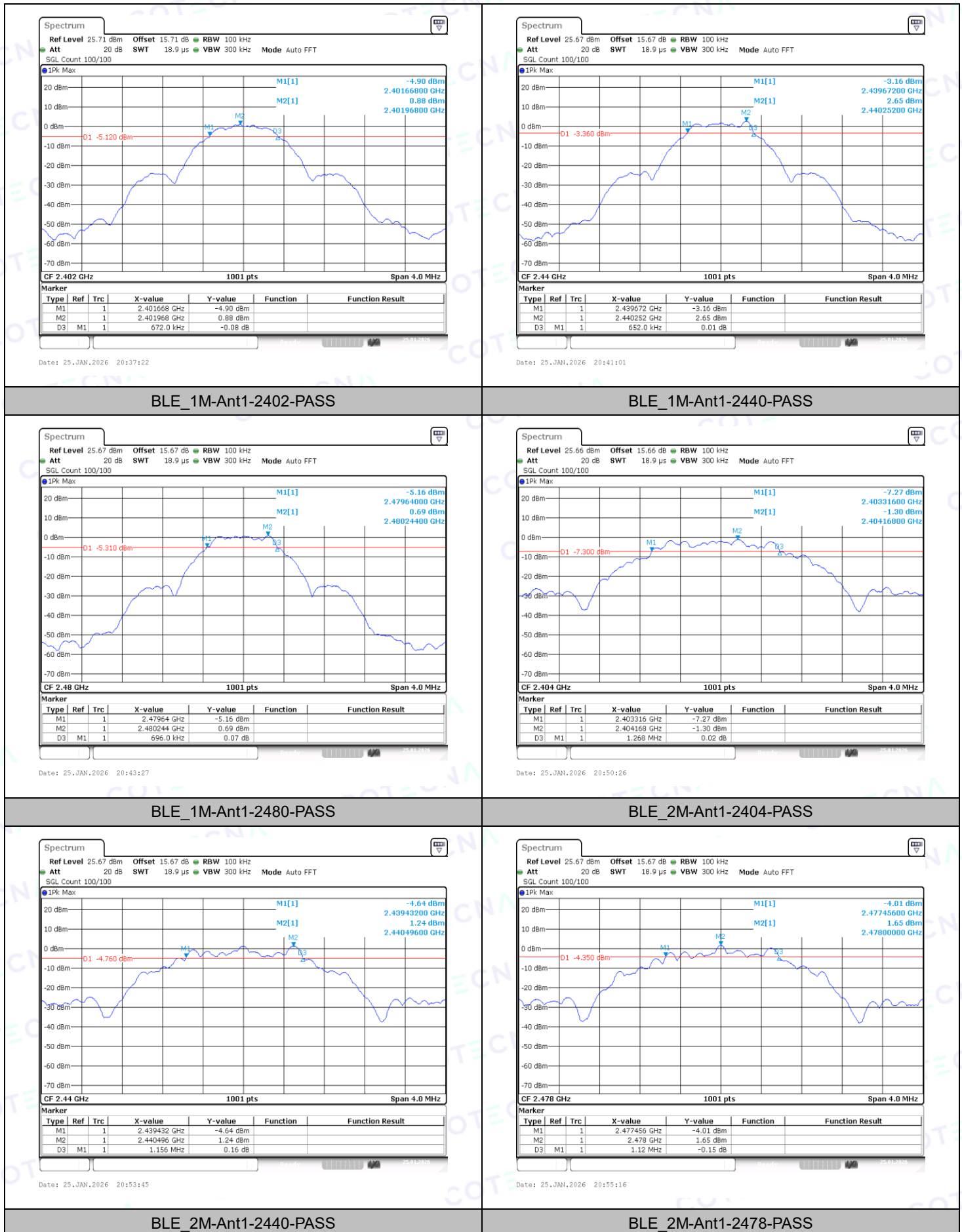
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1: DTS Bandwidth

1.1 Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.67	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.65	2439.67	2440.32	0.5	PASS
BLE_1M	Ant1	2480	0.70	2479.64	2480.34	0.5	PASS
BLE_2M	Ant1	2404	1.27	2403.32	2404.58	0.5	PASS
BLE_2M	Ant1	2440	1.16	2439.43	2440.59	0.5	PASS
BLE_2M	Ant1	2478	1.12	2477.46	2478.58	0.5	PASS

1.2 Test Graphs

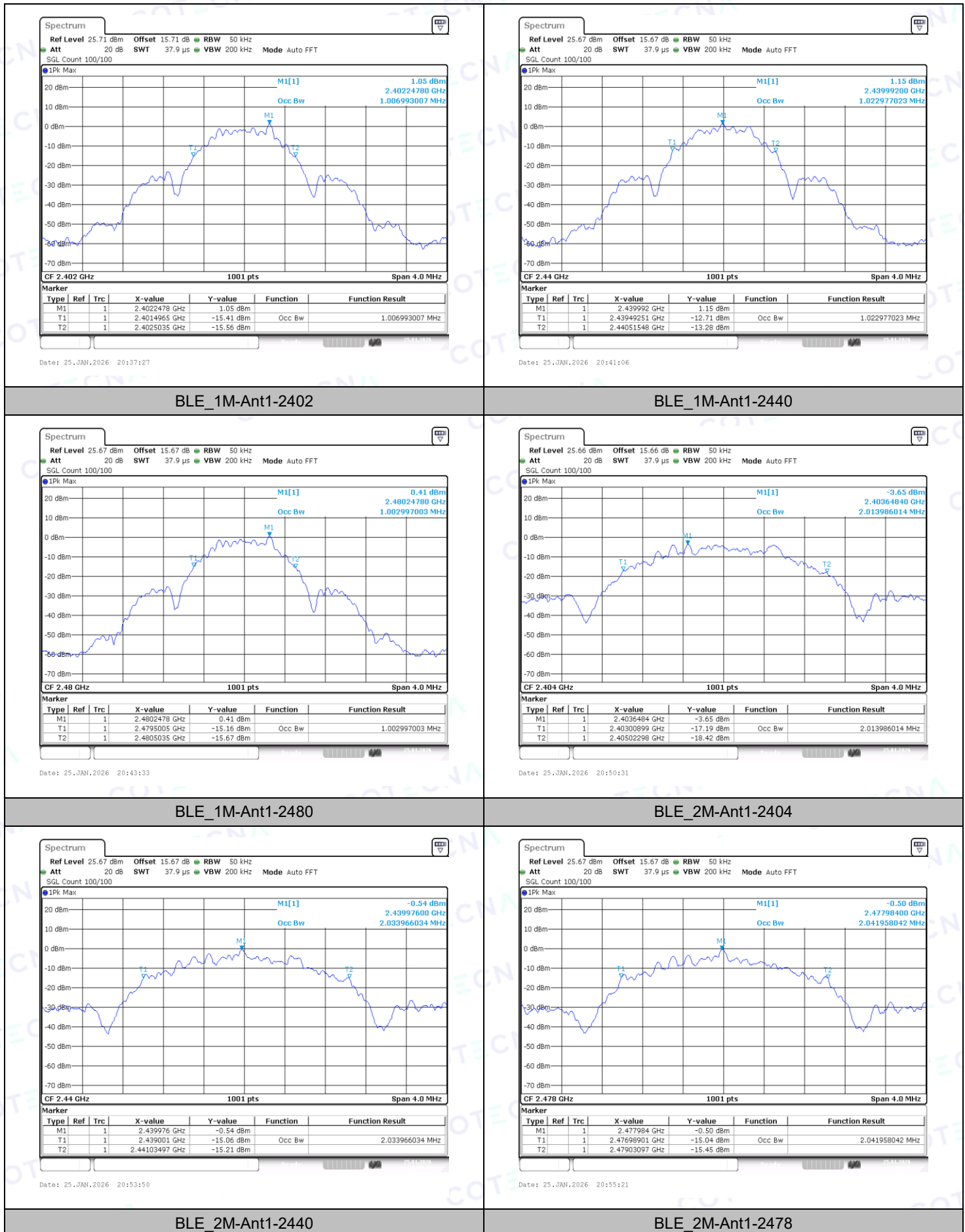


2: Occupied Channel Bandwidth

2.1 Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0070	2401.4965	2402.5035	---	---
BLE_1M	Ant1	2440	1.0230	2439.4925	2440.5155	---	---
BLE_1M	Ant1	2480	1.0030	2479.5005	2480.5035	---	---
BLE_2M	Ant1	2404	2.0140	2403.0090	2405.0230	---	---
BLE_2M	Ant1	2440	2.0340	2439.0010	2441.0350	---	---
BLE_2M	Ant1	2478	2.0420	2476.9890	2479.0310	---	---

2.2 Test Graphs

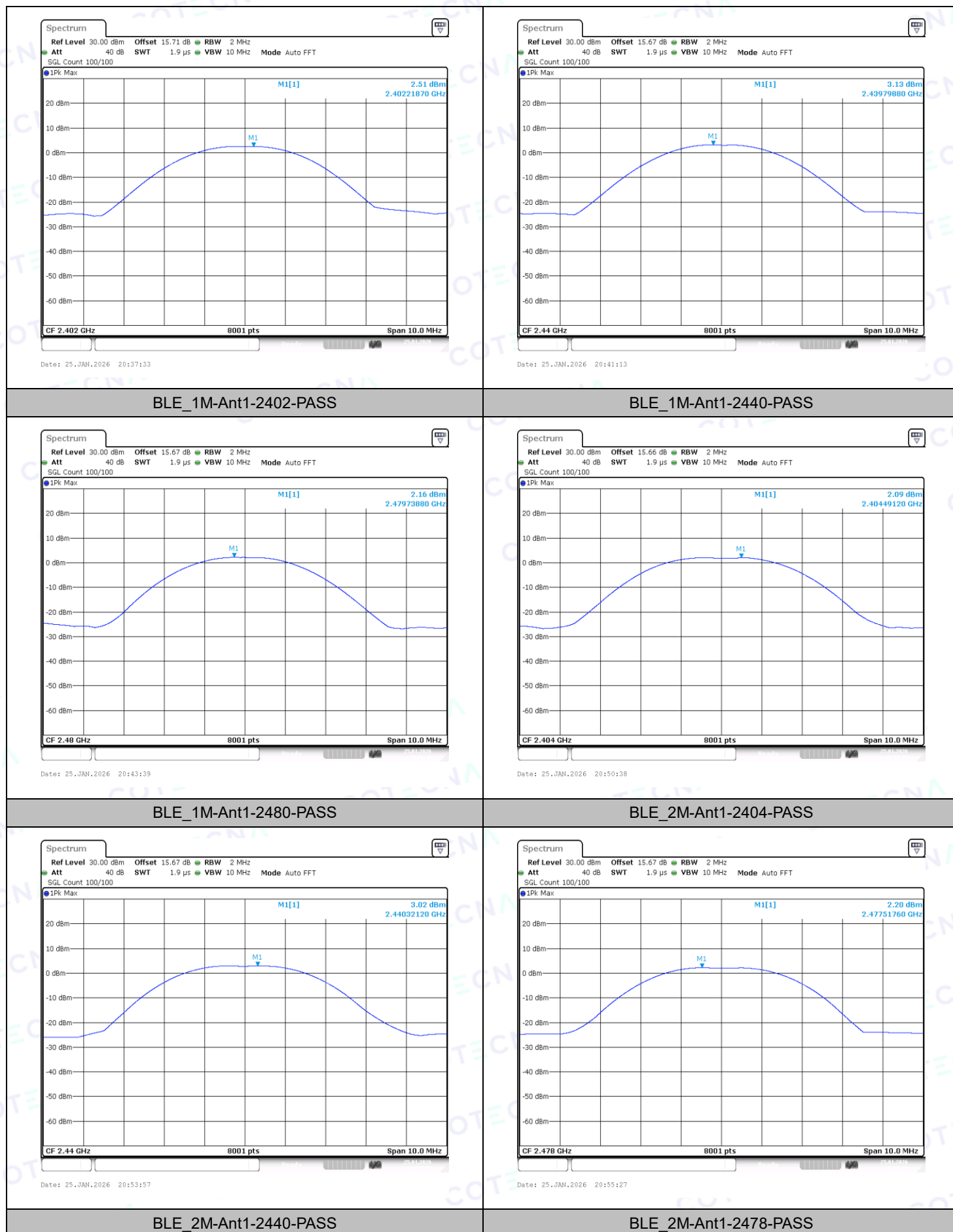


3: Maximum conducted output power

3.1 Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.51	≤30	PASS
BLE_1M	Ant1	2440	3.13	≤30	PASS
BLE_1M	Ant1	2480	2.16	≤30	PASS
BLE_2M	Ant1	2404	2.09	≤30	PASS
BLE_2M	Ant1	2440	3.02	≤30	PASS
BLE_2M	Ant1	2478	2.20	≤30	PASS

3.2 Test Graphs Peak

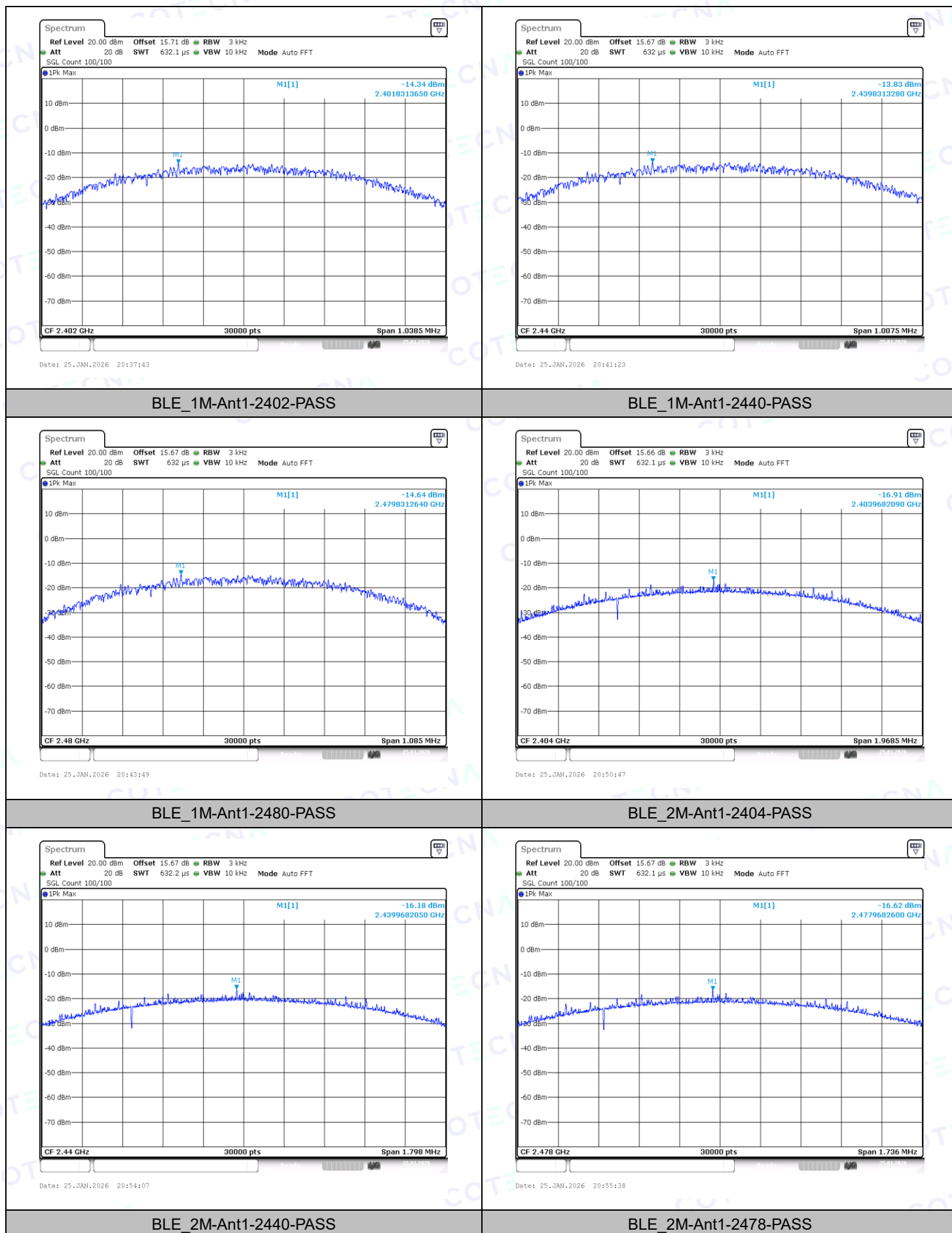


4: Maximum power spectral density

4.1 Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.34	≤8.00	PASS
BLE_1M	Ant1	2440	-13.83	≤8.00	PASS
BLE_1M	Ant1	2480	-14.64	≤8.00	PASS
BLE_2M	Ant1	2404	-16.91	≤8.00	PASS
BLE_2M	Ant1	2440	-16.18	≤8.00	PASS
BLE_2M	Ant1	2478	-16.62	≤8.00	PASS

4.2 Test Graphs

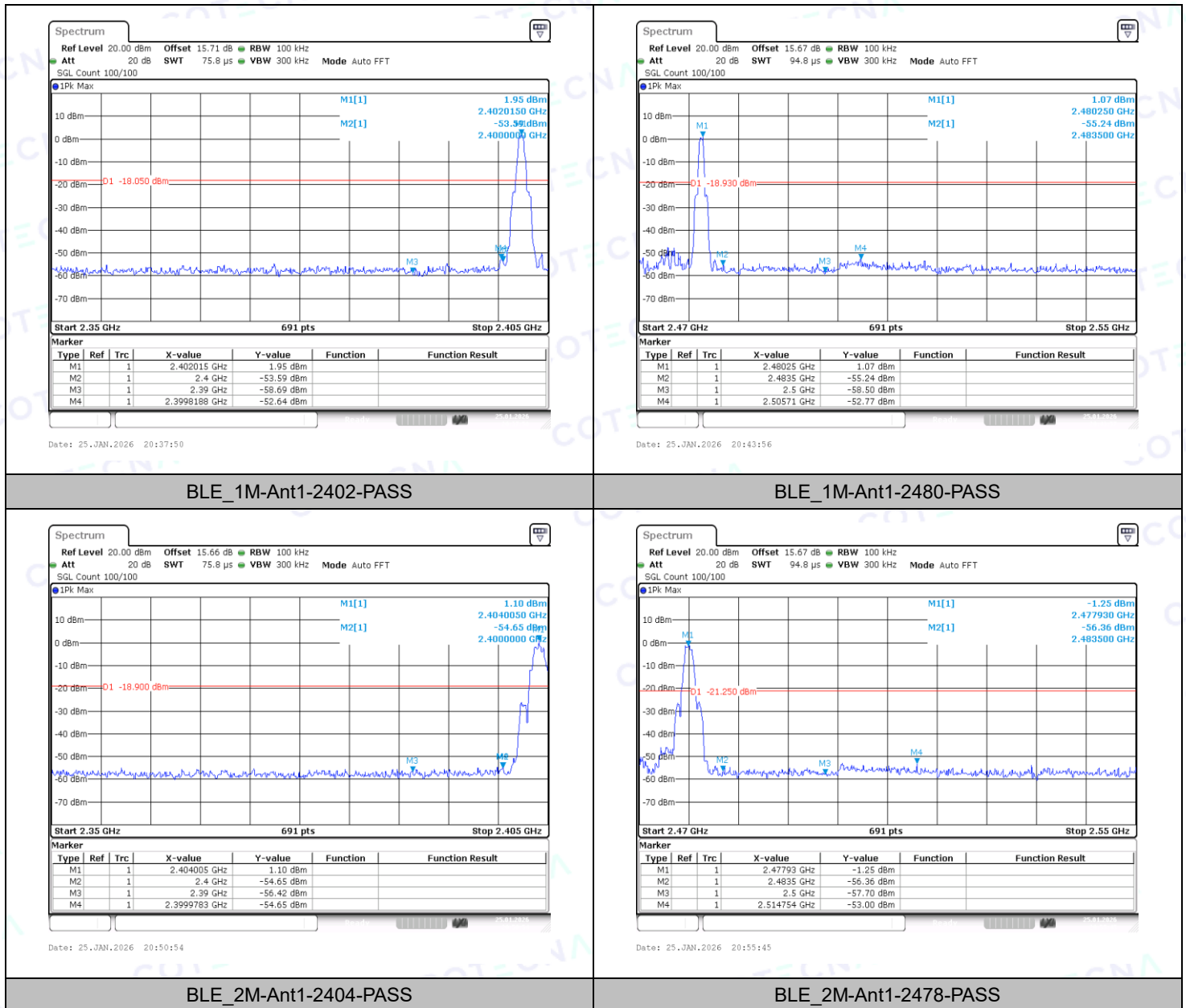


5: Band edge measurements

5.1 Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.95	-52.64	≤-18.05	PASS
BLE_1M	Ant1	High	2480	1.07	-52.77	≤-18.93	PASS
BLE_2M	Ant1	Low	2404	1.10	-54.65	≤-18.9	PASS
BLE_2M	Ant1	High	2478	-1.25	-53	≤-21.25	PASS

5.2 Test Graphs

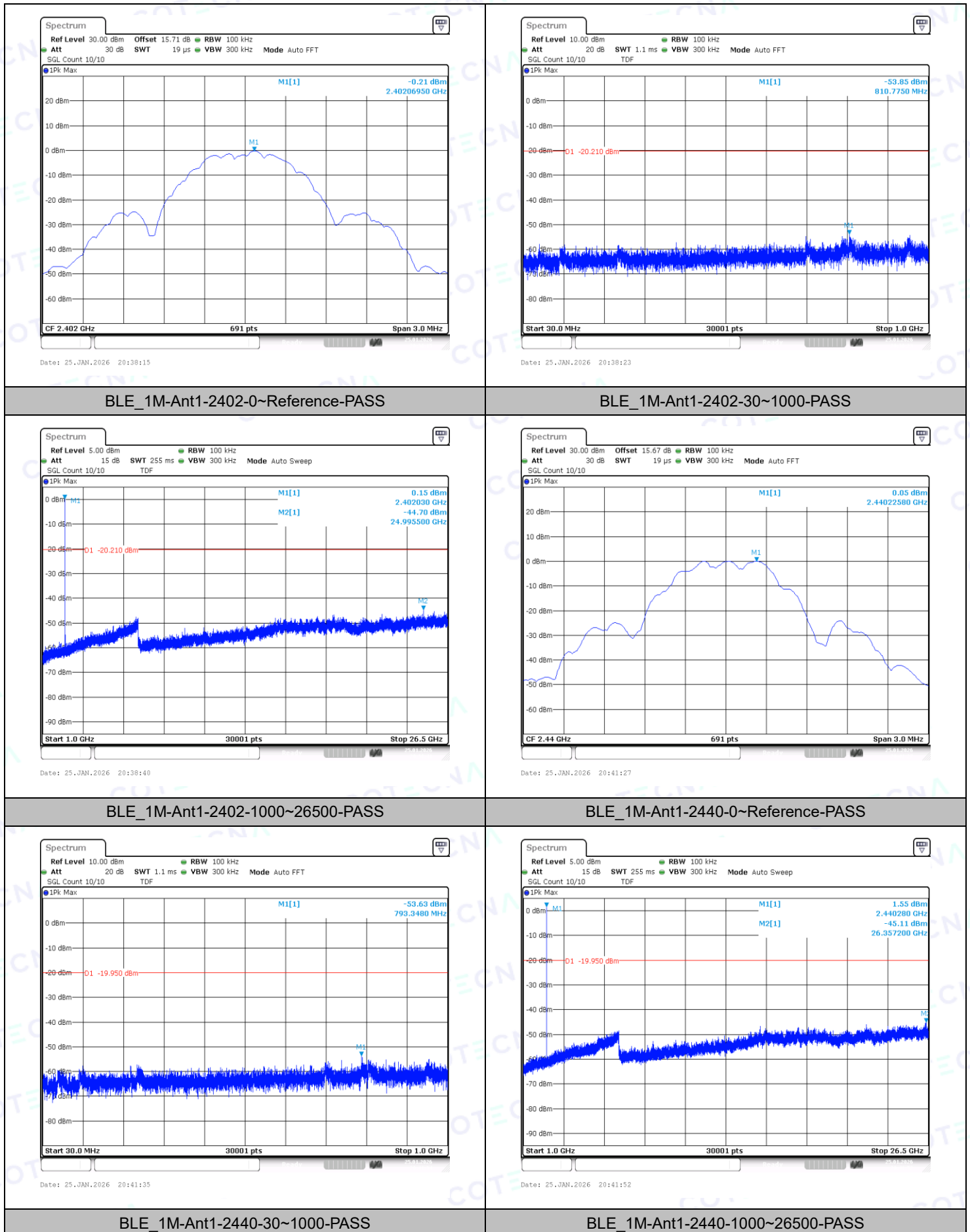


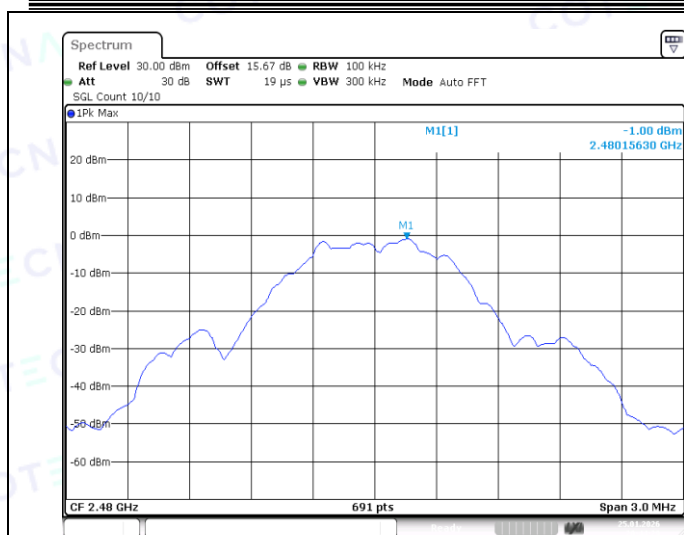
6: Conducted Spurious Emission

6.1 Test Result

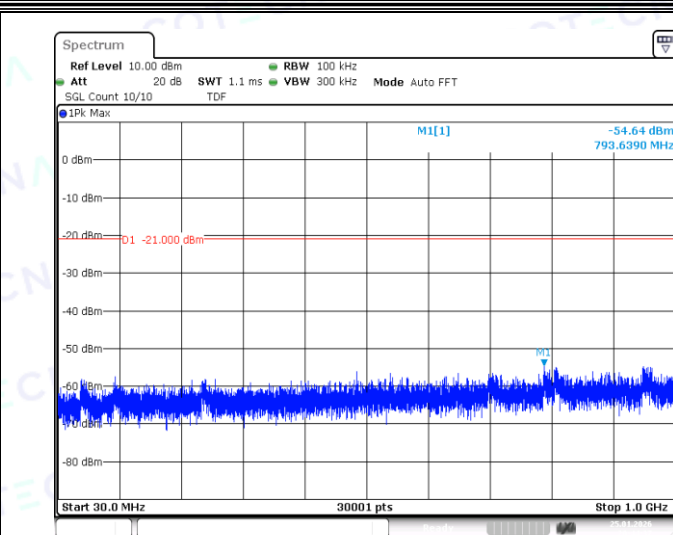
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.21	-0.21	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.21	-53.85	≤-20.21	PASS
BLE_1M	Ant1	2402	1000~26500	-0.21	-44.7	≤-20.21	PASS
BLE_1M	Ant1	2440	0~Reference	0.05	0.05	---	PASS
BLE_1M	Ant1	2440	30~1000	0.05	-53.63	≤-19.95	PASS
BLE_1M	Ant1	2440	1000~26500	0.05	-45.11	≤-19.95	PASS
BLE_1M	Ant1	2480	0~Reference	-1.00	-1.00	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.00	-54.64	≤-21	PASS
BLE_1M	Ant1	2480	1000~26500	-1.00	-44.56	≤-21	PASS
BLE_2M	Ant1	2404	0~Reference	-2.51	-2.51	---	PASS
BLE_2M	Ant1	2404	30~1000	-2.51	-53.7	≤-22.51	PASS
BLE_2M	Ant1	2404	1000~26500	-2.51	-45.94	≤-22.51	PASS
BLE_2M	Ant1	2440	0~Reference	-1.29	-1.29	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.29	-54.15	≤-21.29	PASS
BLE_2M	Ant1	2440	1000~26500	-1.29	-45.69	≤-21.29	PASS
BLE_2M	Ant1	2478	0~Reference	-1.84	-1.84	---	PASS
BLE_2M	Ant1	2478	30~1000	-1.84	-53.6	≤-21.84	PASS
BLE_2M	Ant1	2478	1000~26500	-1.84	-45.81	≤-21.84	PASS

6.2 Test Graphs





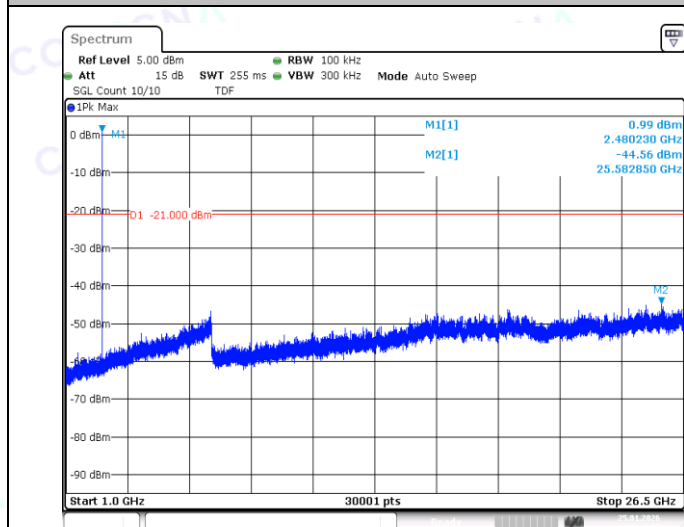
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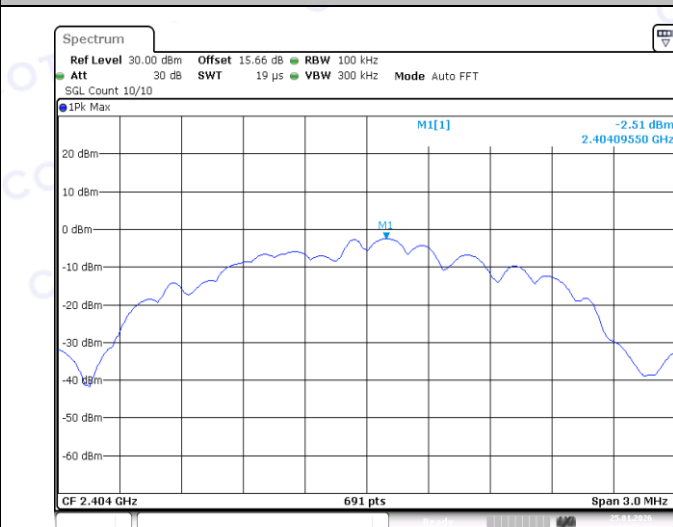
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BLE_1M-Ant1-2480-0~Reference-PASS

BLE_1M-Ant1-2480-30~1000-PASS



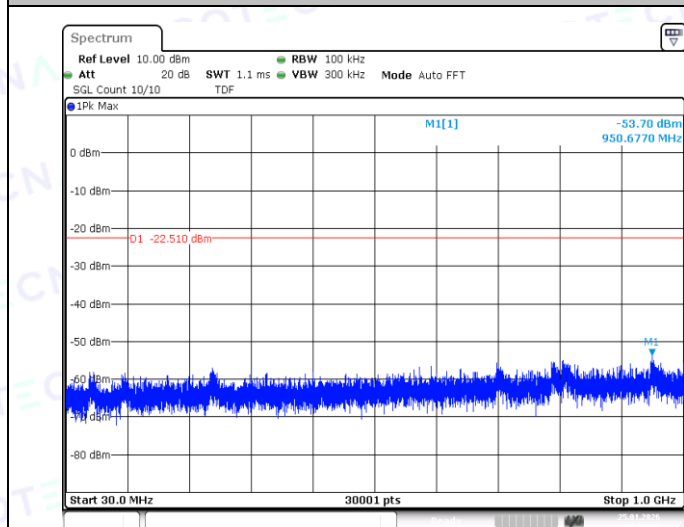
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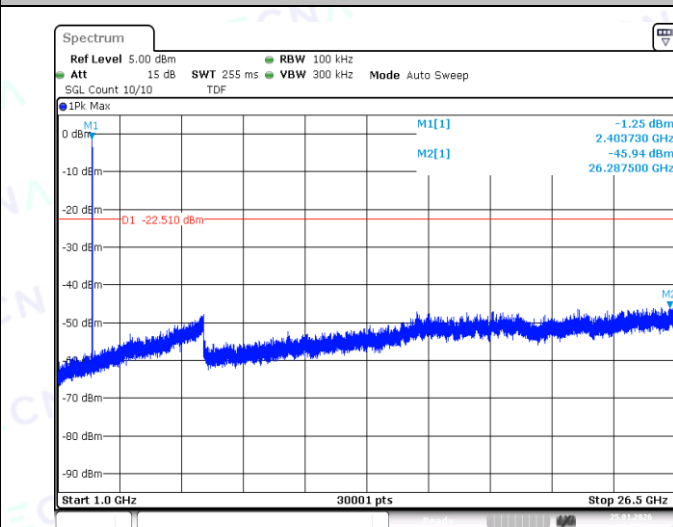
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BLE_1M-Ant1-2480-1000~26500-PASS

BLE_2M-Ant1-2404-0~Reference-PASS



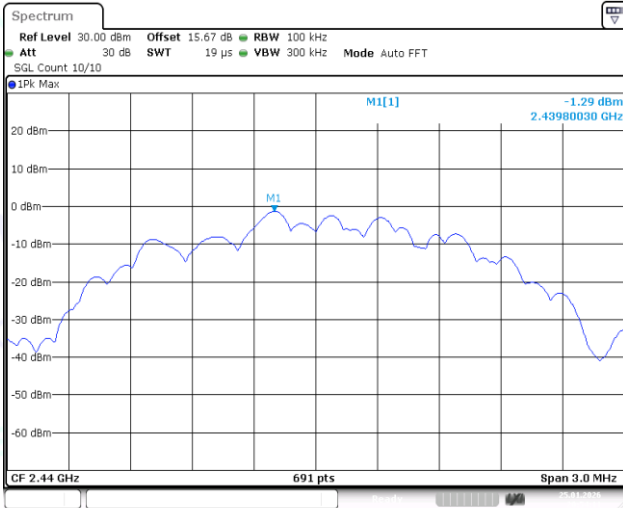
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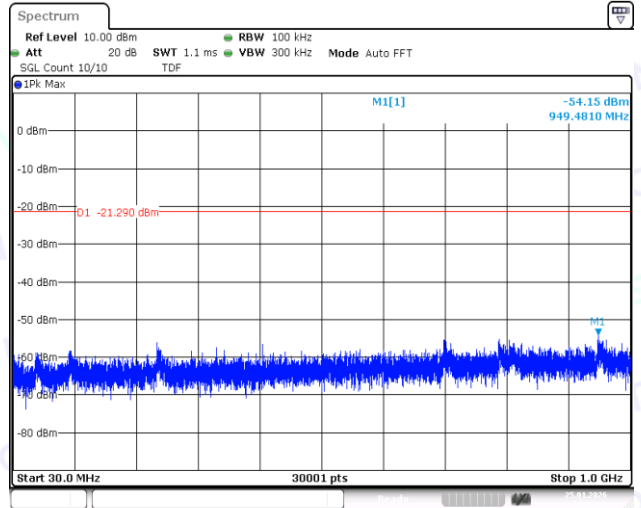
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BLE_2M-Ant1-2404-30~1000-PASS

BLE_2M-Ant1-2404-1000~26500-PASS



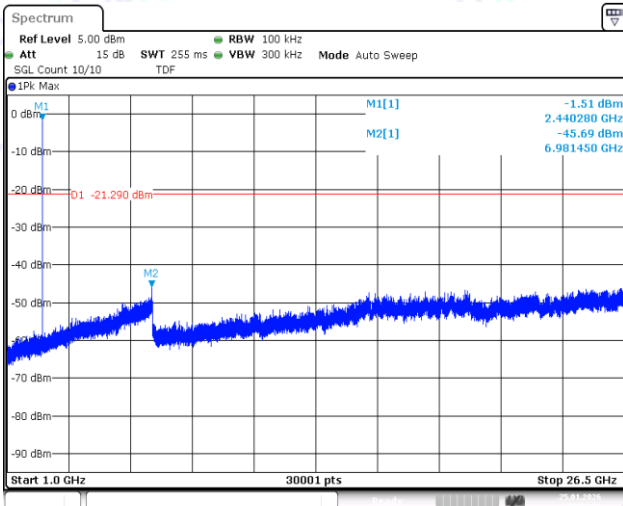
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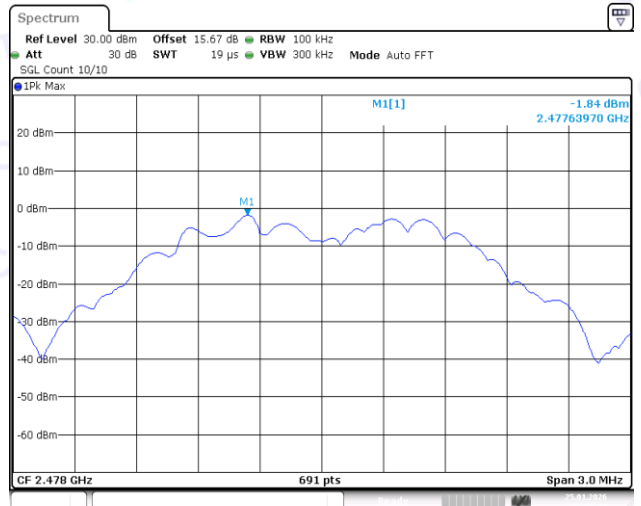
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BLE_2M-Ant1-2440-0~Reference-PASS

BLE_2M-Ant1-2440-30~1000-PASS



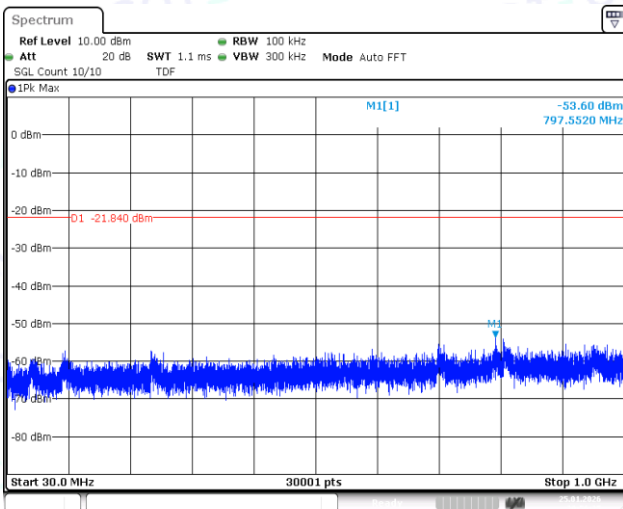
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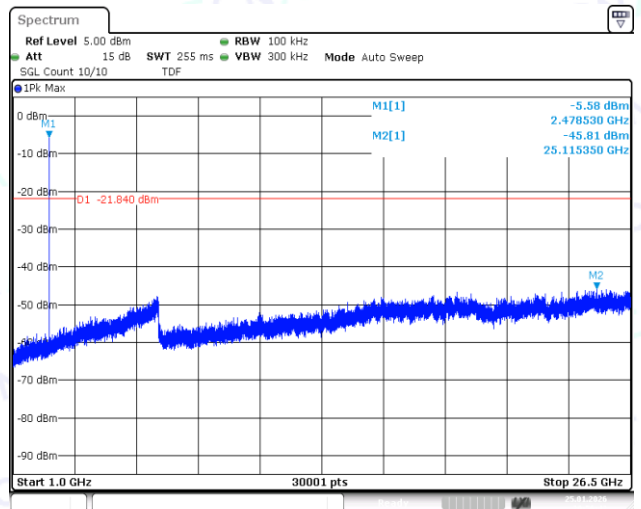
Date: 25.JAN.2026 20:56:17

BLE_2M-Ant1-2440-1000~26500-PASS

BLE_2M-Ant1-2478-0~Reference-PASS



Date: 25.JAN.2026 20:56:25



Date: 25.JAN.2026 20:56:42

BLE_2M-Ant1-2478-30~1000-PASS

BLE_2M-Ant1-2478-1000~26500-PASS

7: Duty Cycle

7.1 Test Result

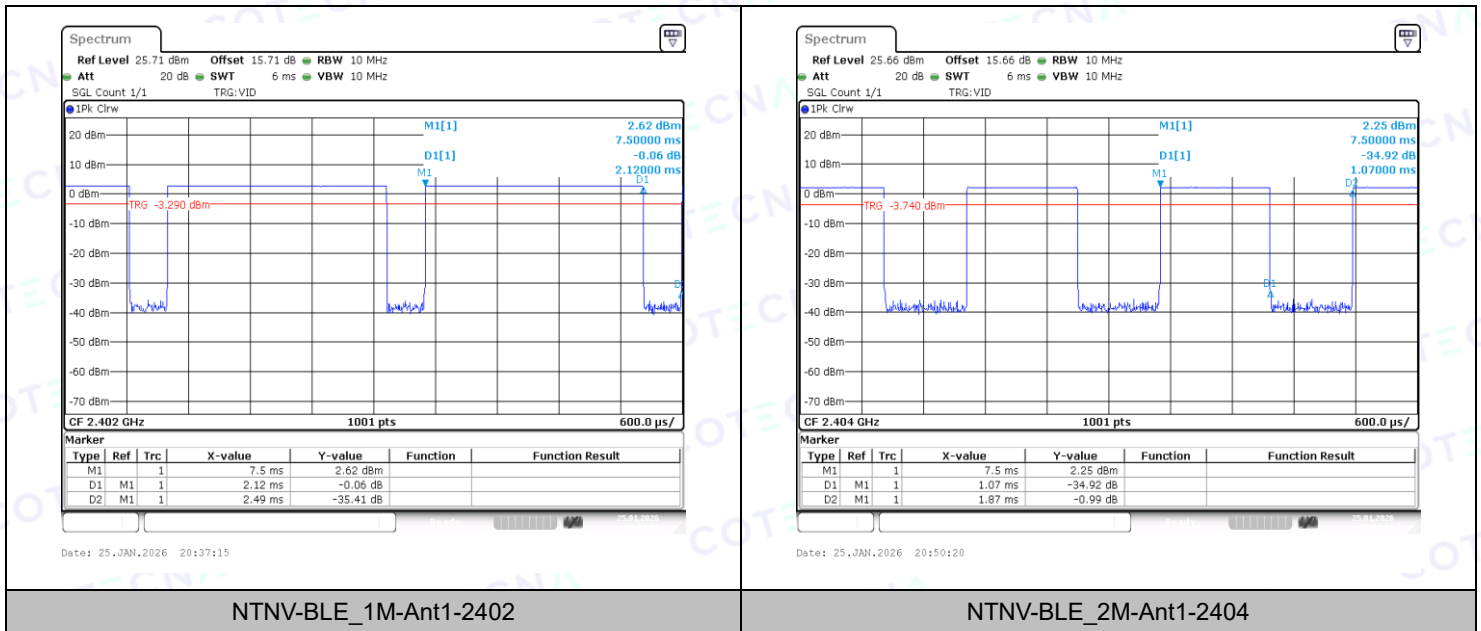
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	1/T [kHz]
BLE_1M	Ant1	2402	2.12	2.49	85.14	0.70	0.47
BLE_2M	Ant1	2404	1.07	1.87	57.22	2.42	0.93

Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factor= $10 \cdot \log_{10}(1/\text{Duty Cycle})$

3, $1/T = 1/\text{Transmission Duration}$

7.2 Test Graphs



8: Emissions in Restricted Bands

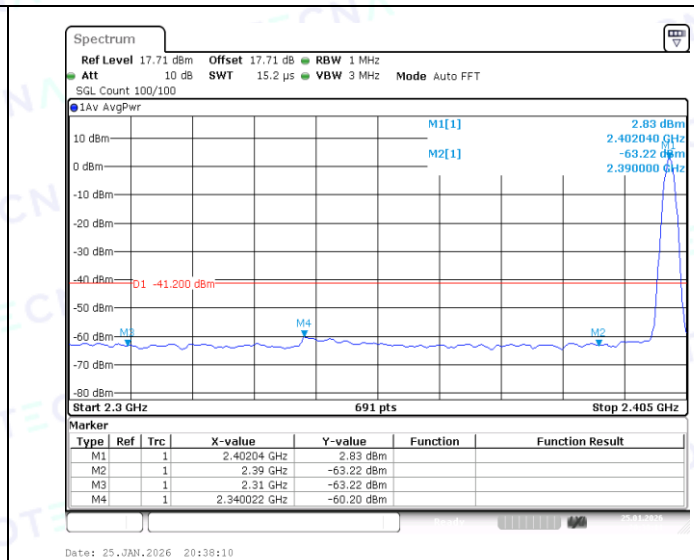
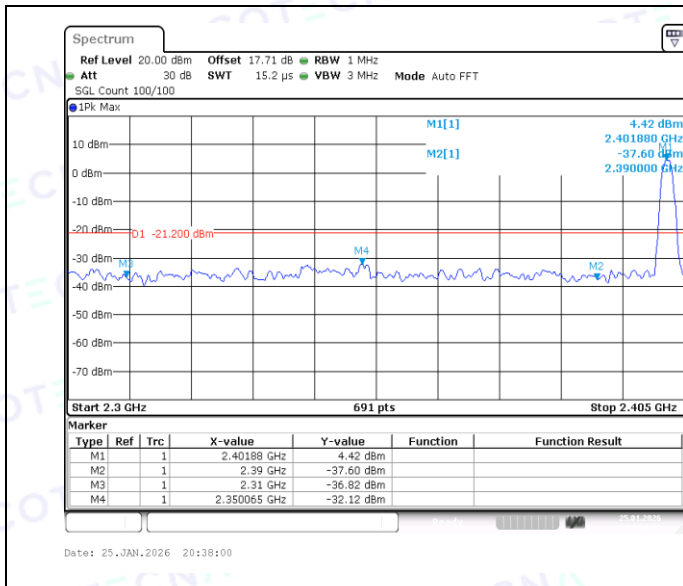
8.1 Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	Peak	2390.000	-37.6	≤-21.20	57.60	≤74	PASS
BLE_1M	Ant1	Low	2402	Peak	2310.000	-36.82	≤-21.20	58.38	≤74	PASS
BLE_1M	Ant1	Low	2402	Peak	2350.065	-32.12	≤-21.20	63.08	≤74	PASS
BLE_1M	Ant1	Low	2402	AV	2390.000	-63.22	≤-41.20	31.98	≤54	PASS
BLE_1M	Ant1	Low	2402	AV	2310.000	-63.22	≤-41.20	31.98	≤54	PASS
BLE_1M	Ant1	Low	2402	AV	2340.022	-60.2	≤-41.20	35.00	≤54	PASS
BLE_1M	Ant1	High	2480	Peak	2483.500	-37.78	≤-21.20	57.42	≤74	PASS
BLE_1M	Ant1	High	2480	Peak	2500.000	-38.3	≤-21.20	56.90	≤74	PASS
BLE_1M	Ant1	High	2480	Peak	2484.029	-33.53	≤-21.20	61.67	≤74	PASS
BLE_1M	Ant1	High	2480	AV	2483.500	-60.67	≤-41.20	34.53	≤54	PASS
BLE_1M	Ant1	High	2480	AV	2500.000	-63.13	≤-41.20	32.07	≤54	PASS
BLE_1M	Ant1	High	2480	AV	2483.797	-60.58	≤-41.20	34.62	≤54	PASS
BLE_2M	Ant1	Low	2404	Peak	2390.000	-35.39	≤-21.20	59.81	≤74	PASS
BLE_2M	Ant1	Low	2404	Peak	2310.000	-36.19	≤-21.20	59.01	≤74	PASS
BLE_2M	Ant1	Low	2404	Peak	2346.109	-32.07	≤-21.20	63.13	≤74	PASS
BLE_2M	Ant1	Low	2404	AV	2390.000	-62.99	≤-41.20	32.21	≤54	PASS
BLE_2M	Ant1	Low	2404	AV	2310.000	-63.37	≤-41.20	31.83	≤54	PASS
BLE_2M	Ant1	Low	2404	AV	2343.522	-61.09	≤-41.20	34.11	≤54	PASS
BLE_2M	Ant1	High	2478	Peak	2483.500	-36.2	≤-21.20	59.00	≤74	PASS
BLE_2M	Ant1	High	2478	Peak	2500.000	-36.82	≤-21.20	58.38	≤74	PASS
BLE_2M	Ant1	High	2478	Peak	2494.580	-34.6	≤-21.20	60.60	≤74	PASS
BLE_2M	Ant1	High	2478	AV	2483.500	-63.04	≤-41.20	32.16	≤54	PASS
BLE_2M	Ant1	High	2478	AV	2500.000	-62.63	≤-41.20	32.57	≤54	PASS
BLE_2M	Ant1	High	2478	AV	2491.333	-62.22	≤-41.20	32.98	≤54	PASS

Note:

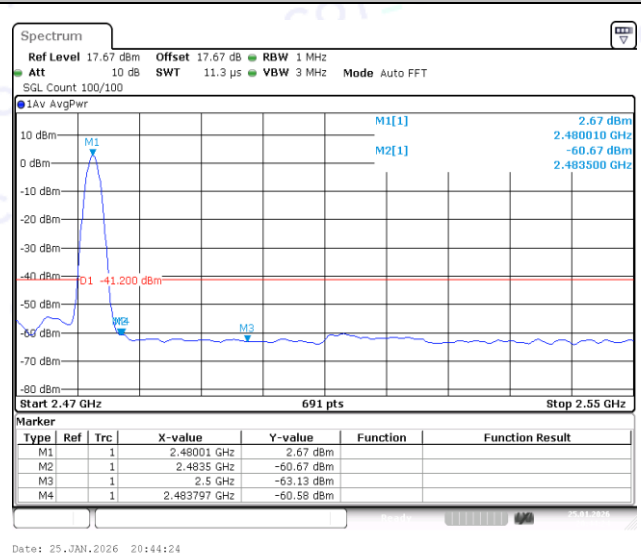
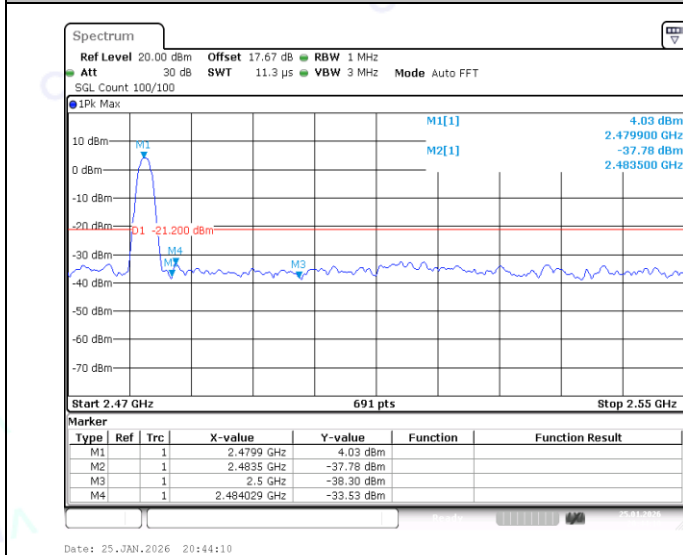
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

8.2 Test Graphs



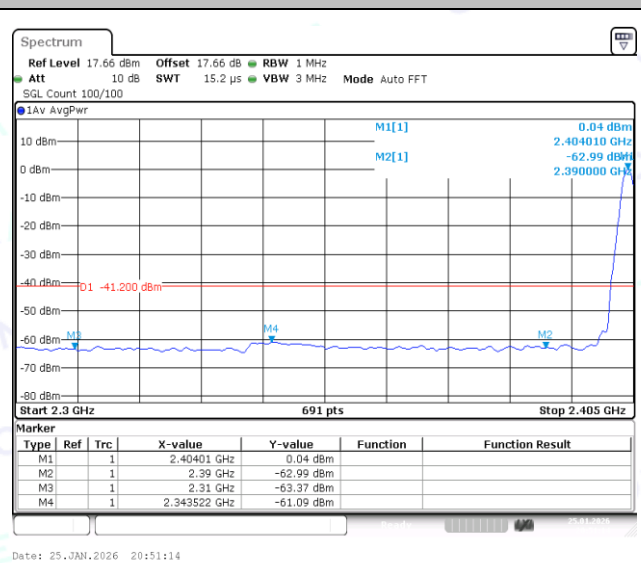
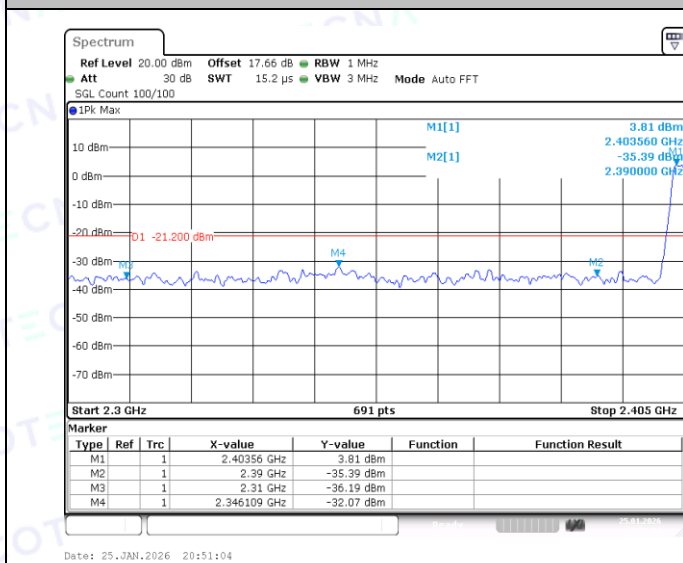
BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2402-PASS



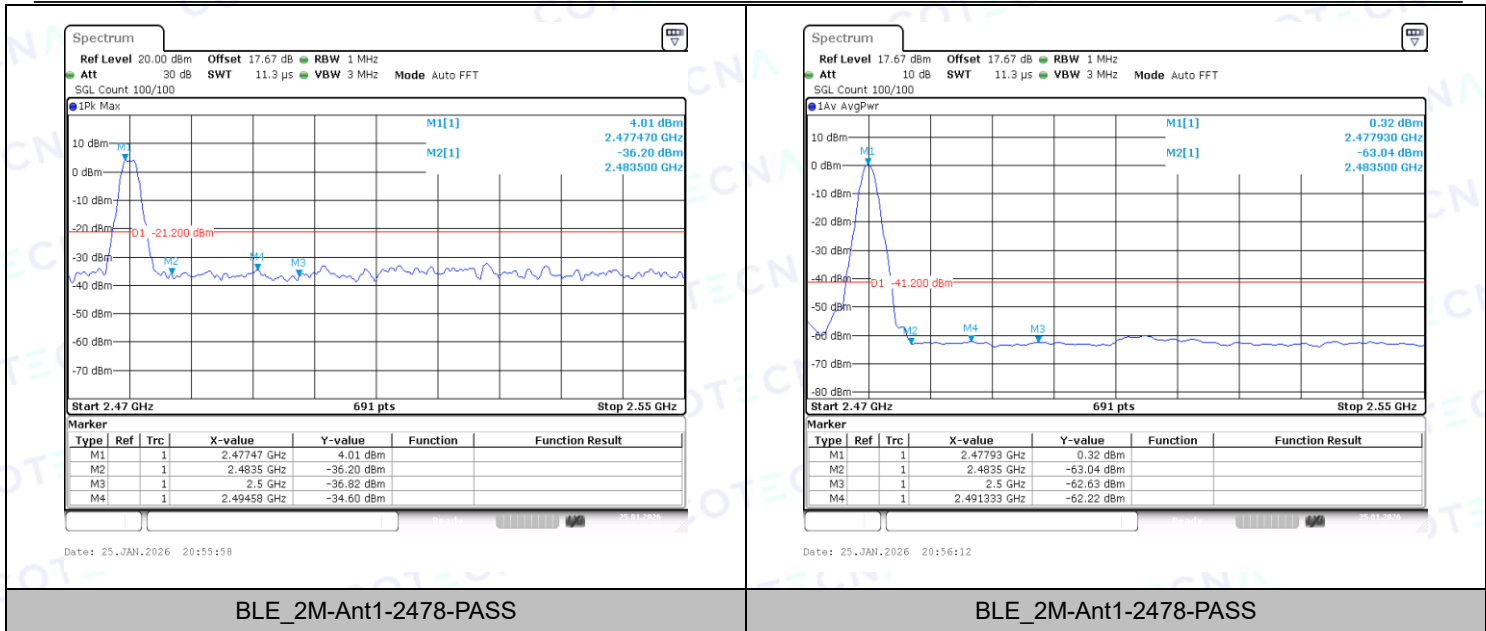
BLE_1M-Ant1-2480-PASS

BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2404-PASS

BLE_2M-Ant1-2404-PASS



-----END OF THE REPORT-----