

Appendix A

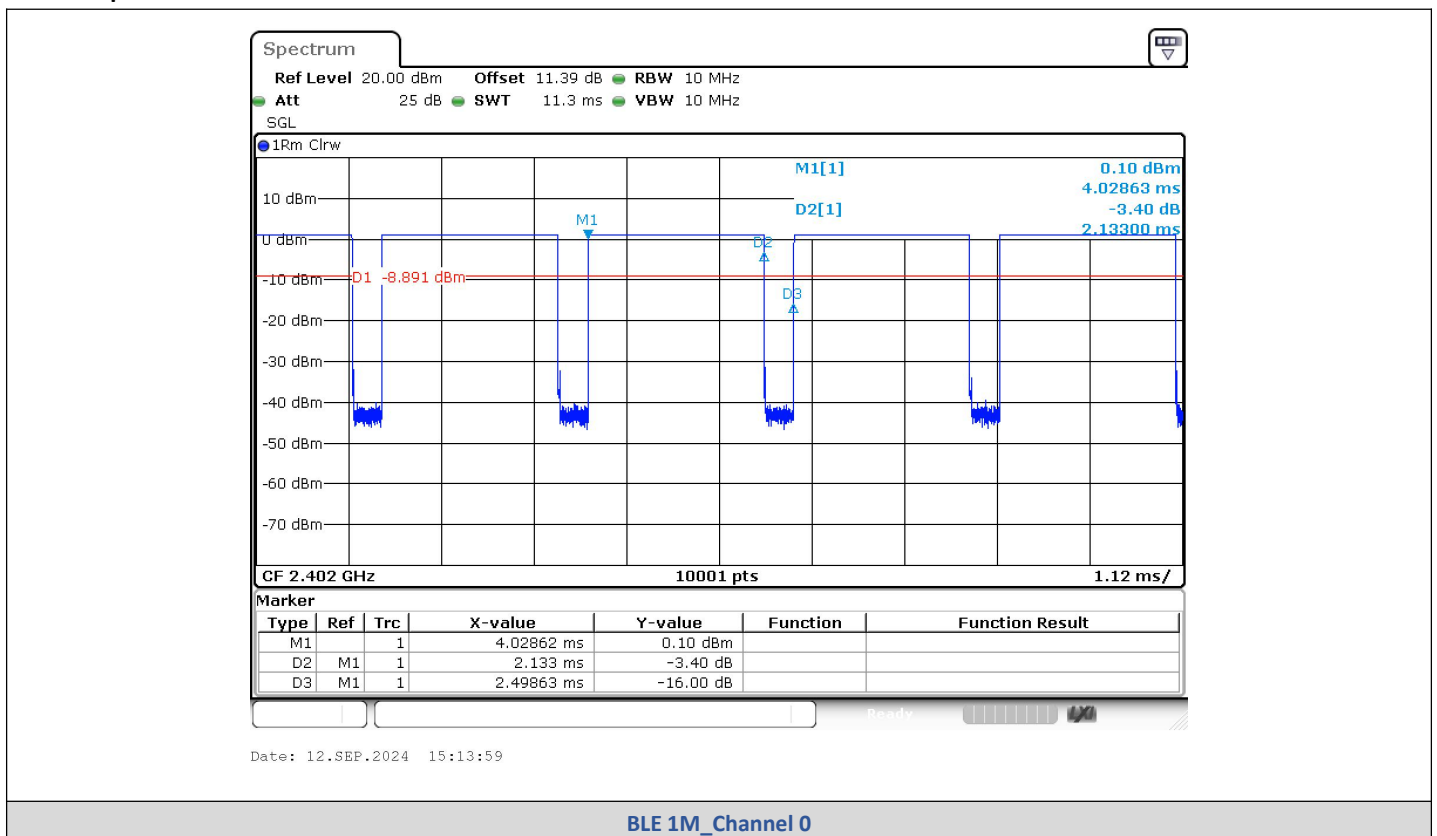
| | |
|----------------|--------------------|
| Report No.: | CISRR240911099 |
| FCC ID: | 2BDZJ-BQ70 |
| Product Name: | wireless headphone |
| Model No.: | BQ70 |
| Test Engineer: | Lucas Huang |
| Supervised by: | Rory Huang |

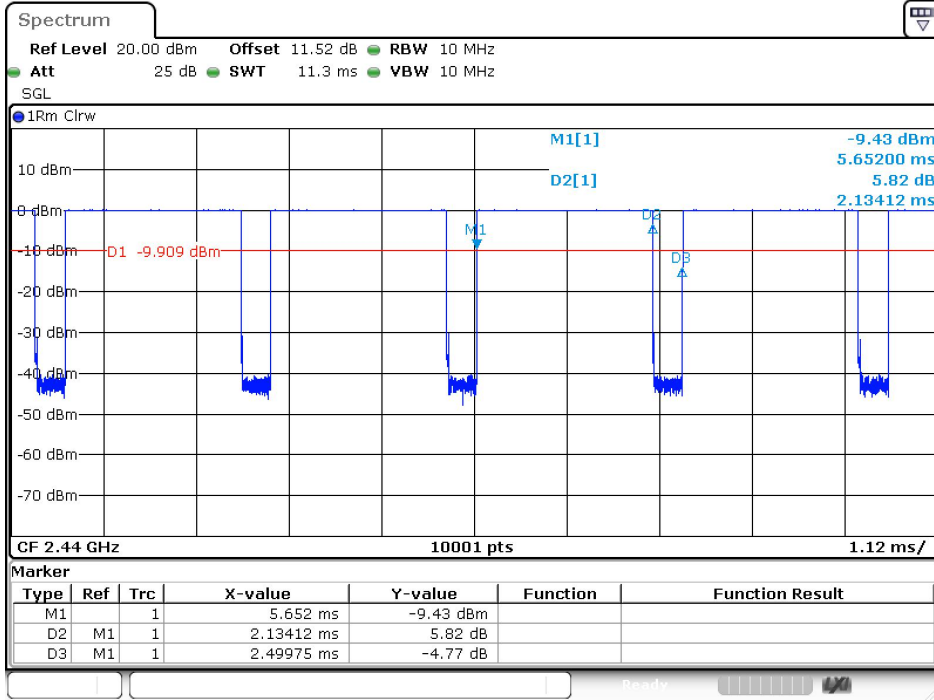
1) Duty Cycle

Test Result

| Mode | Channel | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T |
|--------|---------|--------------|-------------|----------------|---------------------|------------------------|------|
| BLE 1M | 0 | 2.133 | 2.499 | 85.37 | 0.8537 | 0.6869 | 0.47 |
| | 19 | 2.134 | 2.500 | 85.37 | 0.8537 | 0.6869 | 0.47 |
| | 39 | 2.133 | 2.499 | 85.37 | 0.8537 | 0.6869 | 0.47 |

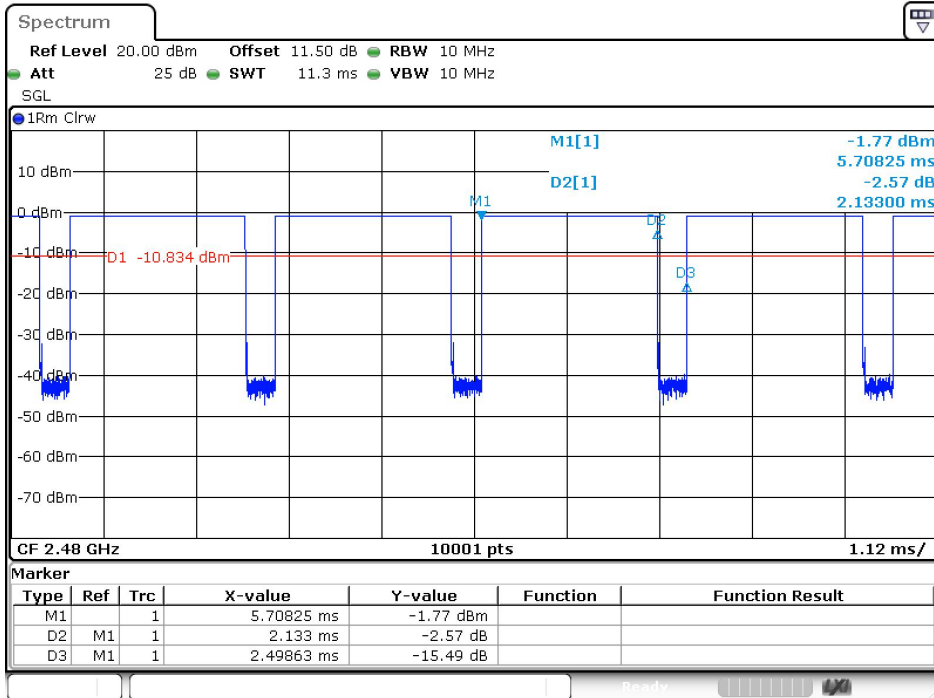
Test Graphs





Date: 12.SEP.2024 15:16:47

BLE 1M_Channel 19



Date: 12.SEP.2024 15:19:31

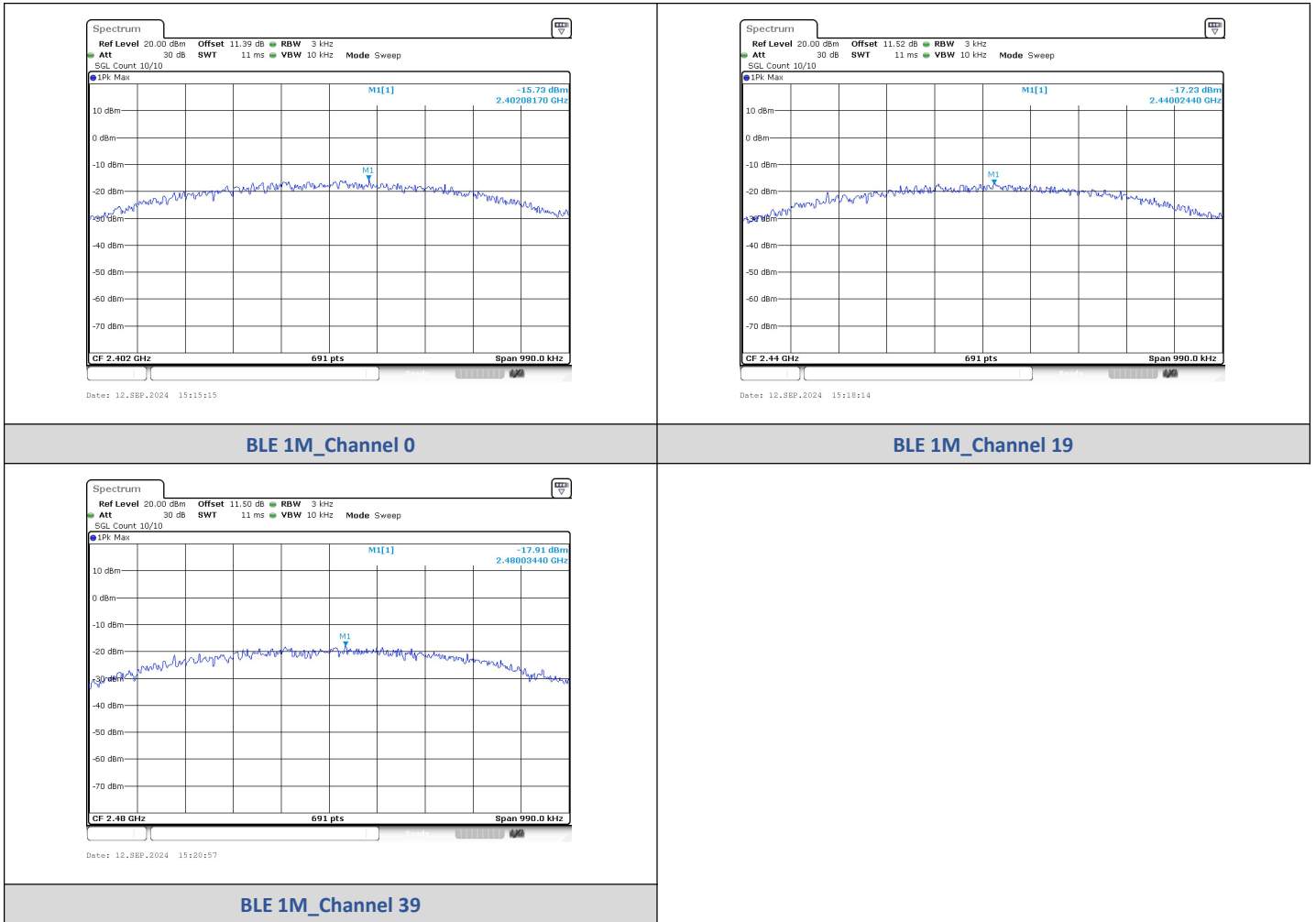
BLE 1M_Channel 39

2) Power Spectral Density

Test Result

| Mode | Channel | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|--------|---------|----------------|------------------|--------|
| BLE 1M | 0 | -15.73 | ≤8 | PASS |
| BLE 1M | 19 | -17.23 | ≤8 | PASS |
| BLE 1M | 39 | -17.91 | ≤8 | PASS |

Test Graphs

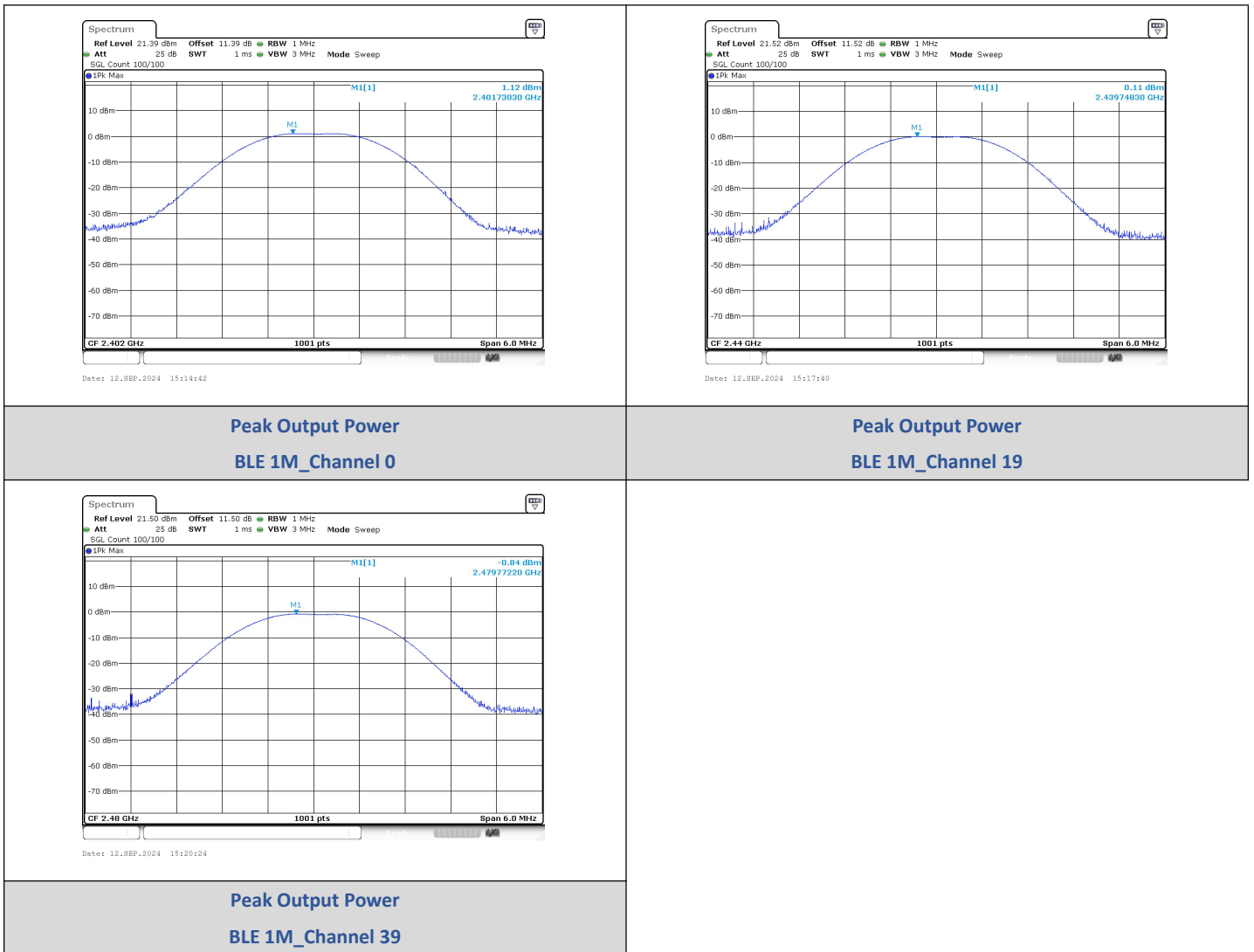


3) Conducted Peak Output Power

Test Result

| Mode | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Limit (dBm) | Result |
|--------|---------|-------------------------|------------------------|-------------|--------|
| BLE 1M | 0 | 1.12 | 1.29 | ≤30 | PASS |
| | 19 | 0.11 | 1.03 | ≤30 | PASS |
| | 39 | -0.84 | 0.82 | ≤30 | PASS |

Test Graphs

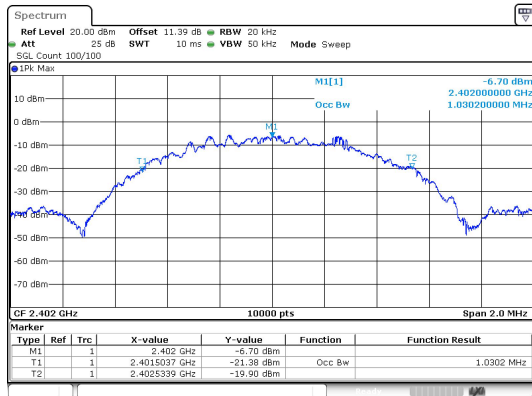


4) 99% Bandwidth

Test Result

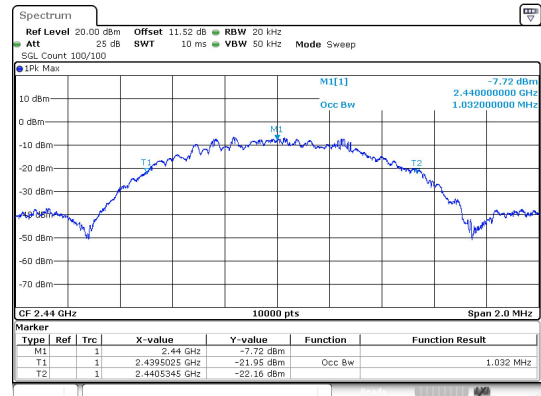
| Mode | Channel | Center Frequency (MHz) | 99% BW (MHz) |
|--------|---------|------------------------|--------------|
| BLE 1M | 0 | 2402 | 1.0302 |
| BLE 1M | 19 | 2440 | 1.0320 |
| BLE 1M | 39 | 2480 | 1.0320 |

Test Graphs



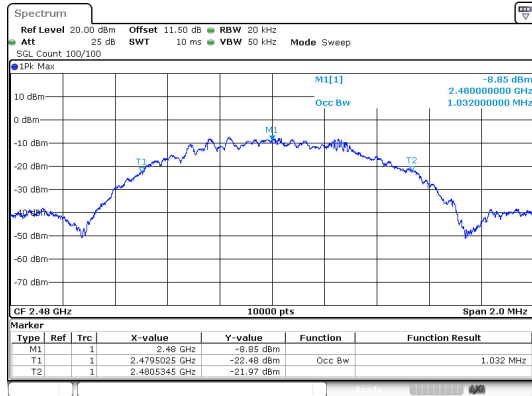
Date: 12_SEP_2024 15:14:14

BLE 1M_Channel 0



Date: 12_SEP_2024 15:17:01

BLE 1M_Channel 19



Date: 12_SEP_2024 15:19:45

BLE 1M_Channel 39

5) 6dB Bandwidth

Test Result

| Mode | Channel | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
|--------|---------|------------------------|----------------------|-------------|--------|
| BLE 1M | 0 | 2402 | 0.6600 | ≥0.5 | PASS |
| | 19 | 2440 | 0.6600 | | PASS |
| | 39 | 2480 | 0.6600 | | PASS |

Test Graphs

BLE 1M_Channel 0

BLE 1M_Channel 19

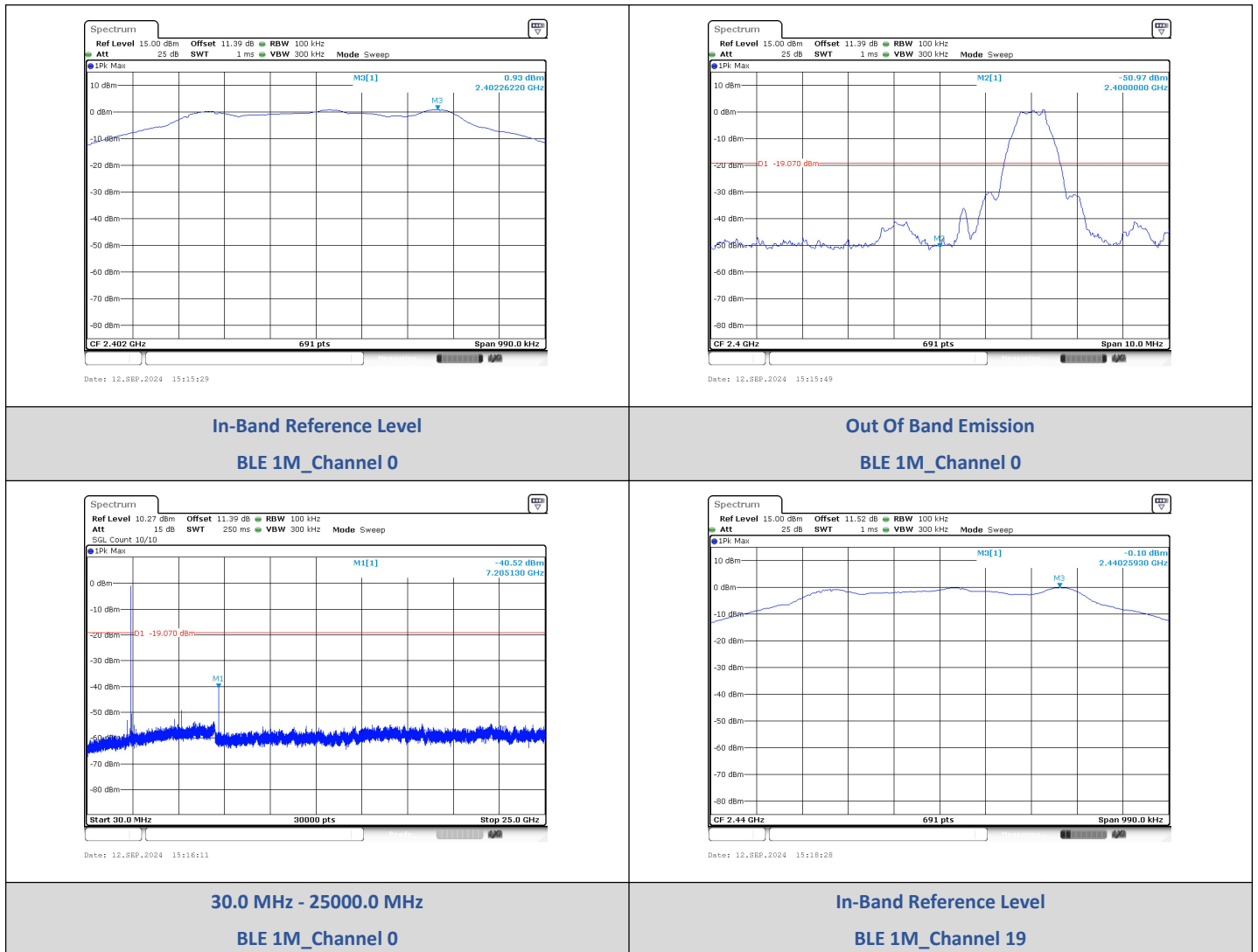
BLE 1M_Channel 39

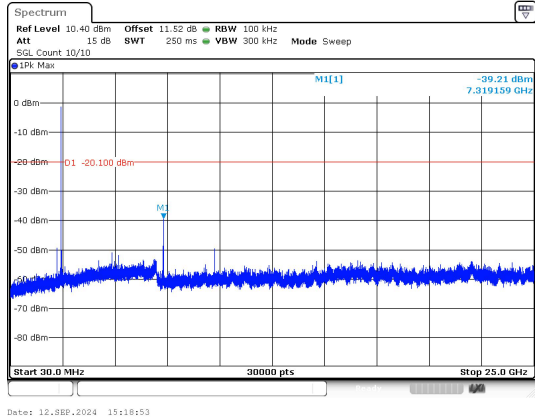
6) Conducted Out Of Band Emission

Test Result

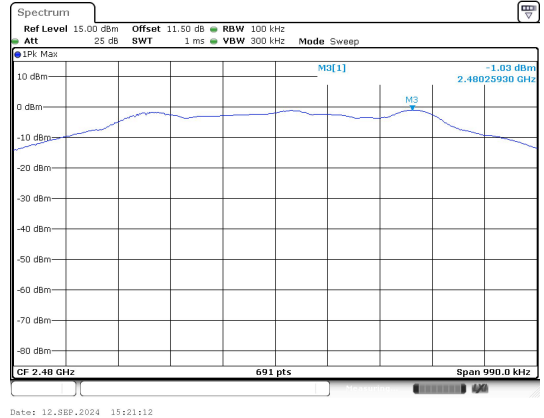
| Mode | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| BLE 1M | 0 | 2399.00 | -41.709 | -19.07 | -22.639 | PASS |
| | | 2400.00 | -50.973 | -19.07 | -31.903 | PASS |
| | | 7205.10 | -40.520 | -19.07 | -21.450 | PASS |
| | 19 | 7319.16 | -39.213 | -20.1 | -19.113 | PASS |
| | | 2483.50 | -48.083 | -21.03 | -27.053 | PASS |
| | | 7440.68 | -43.497 | -21.03 | -22.467 | PASS |

Test Graphs

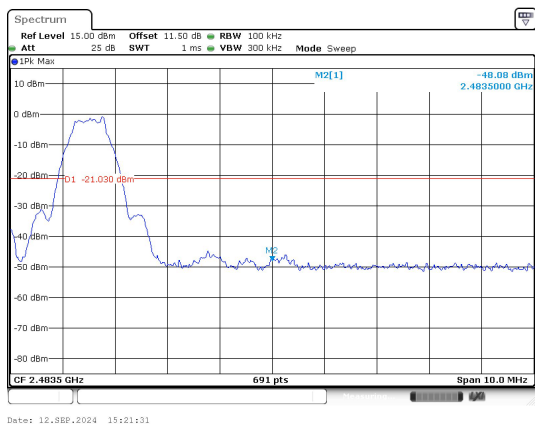




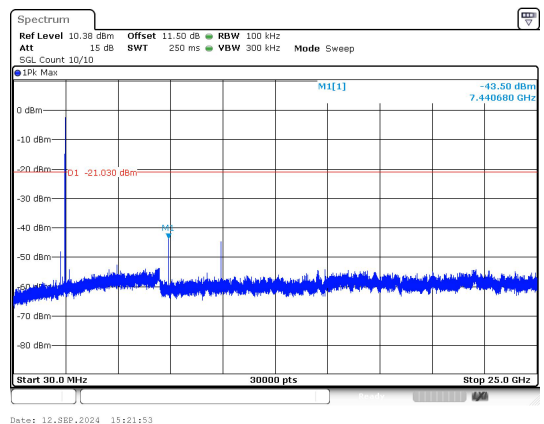
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



In-Band Reference Level
BLE 1M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39