

Appendix B

RF Test Data for BT V4.0 (Conducted Measurement)

Product Name: Tablet pc

Trade Mark: N/A

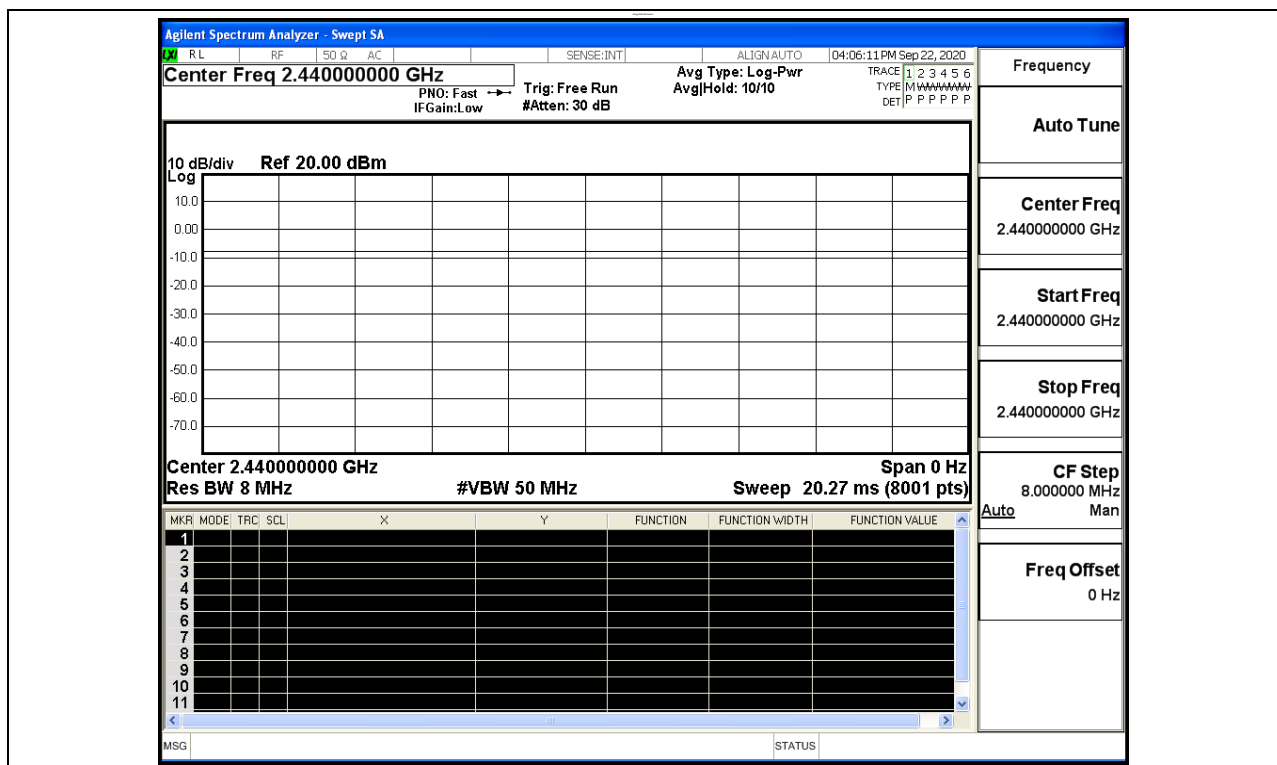
Test Model: 10LA1

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 24.2° C |
| Relative Humidity: | 53.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Li Huan |
| Supervised by: | Li Huan |

B.1 Duty Cycle

| Test Mode | Test Channel | Ant | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| BT LE | 2440 | Ant1 | 100 | PASS |

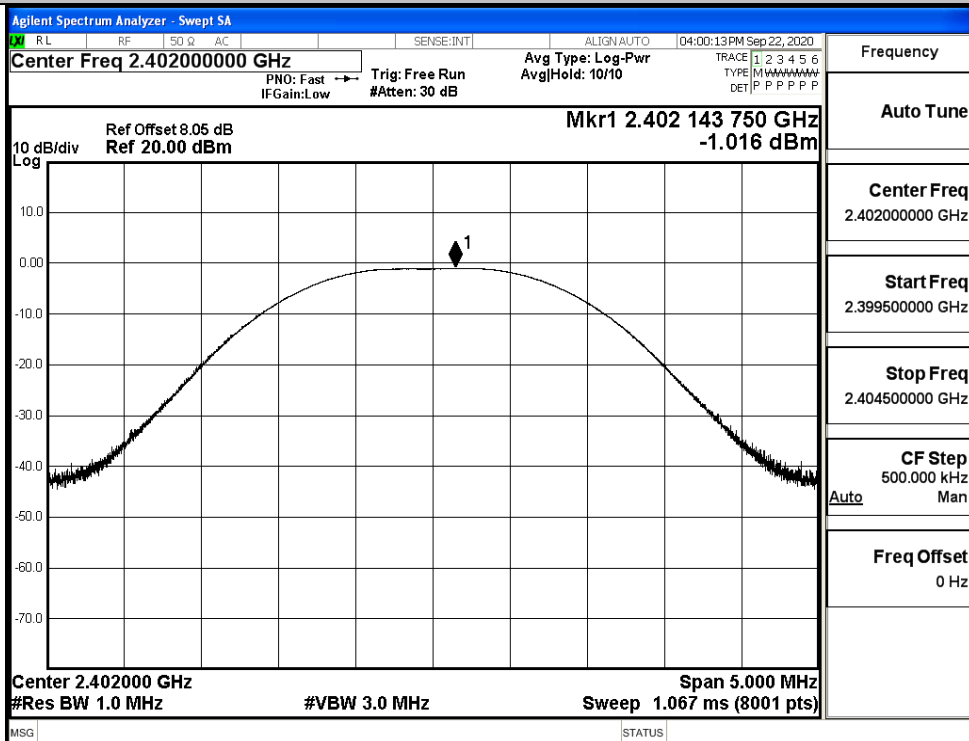


B.2 Maximum Conducted Peak Output Power

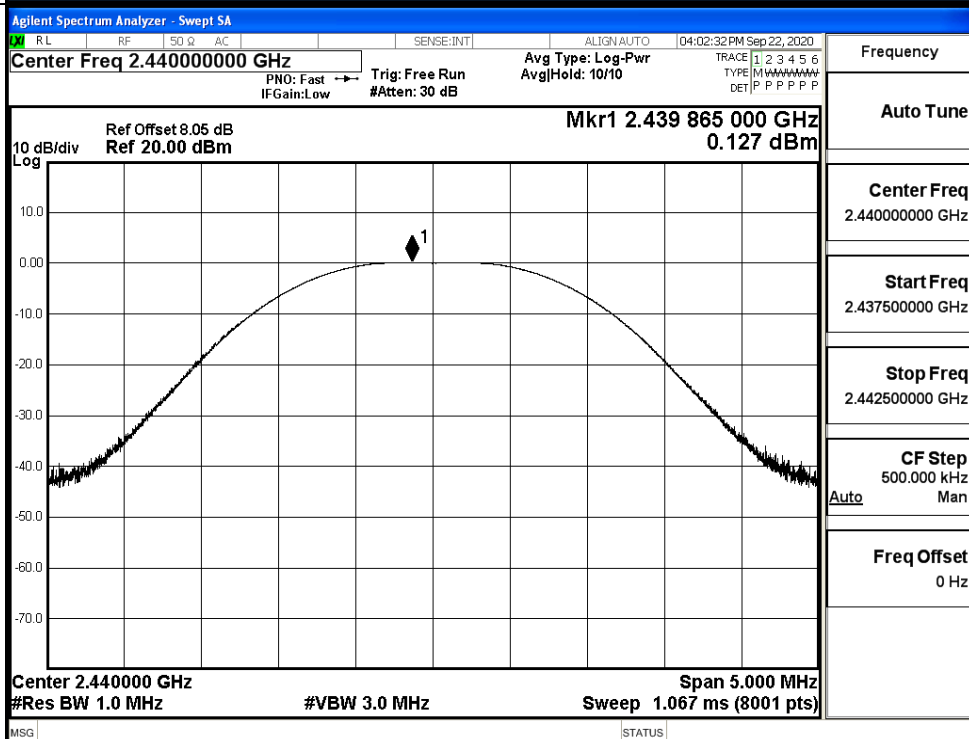
| Mode | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH | -1.016 | 30 | PASS |
| BT LE | MCH | 0.127 | 30 | PASS |
| BT LE | HCH | -1.084 | 30 | PASS |

Test Graphs

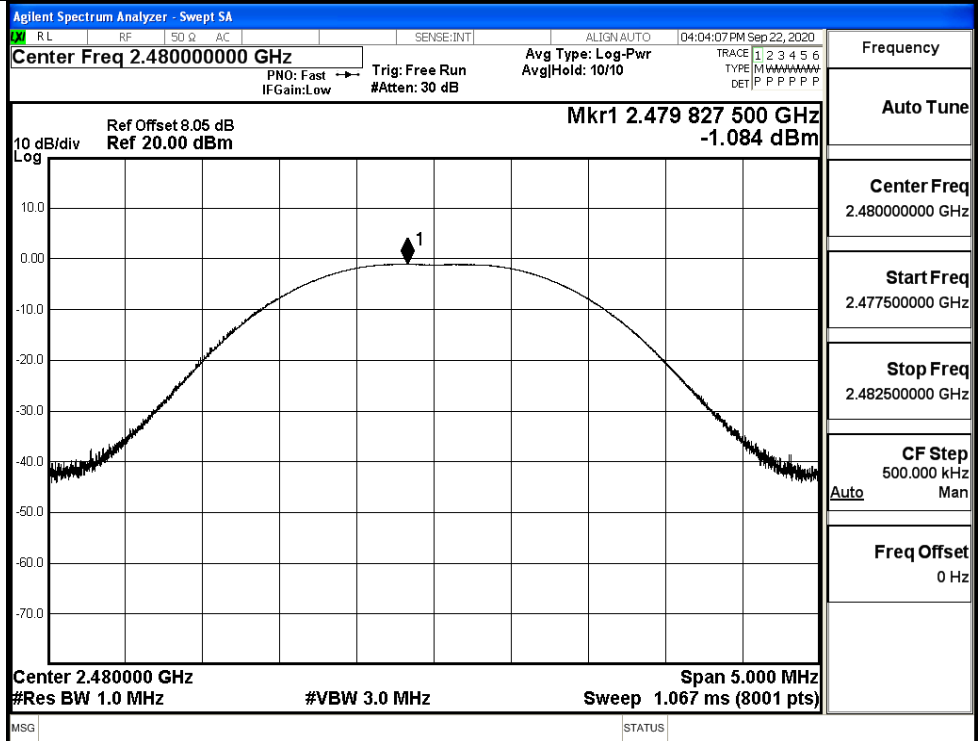
LCH



MCH



HCH

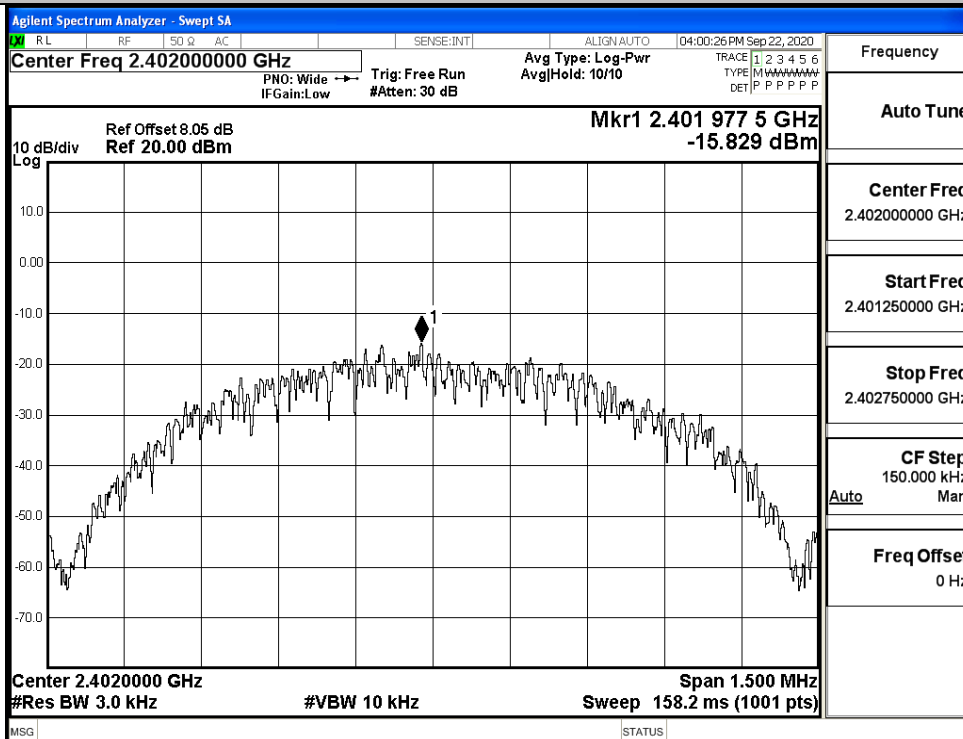


B.3 Maximum Power Spectral Density

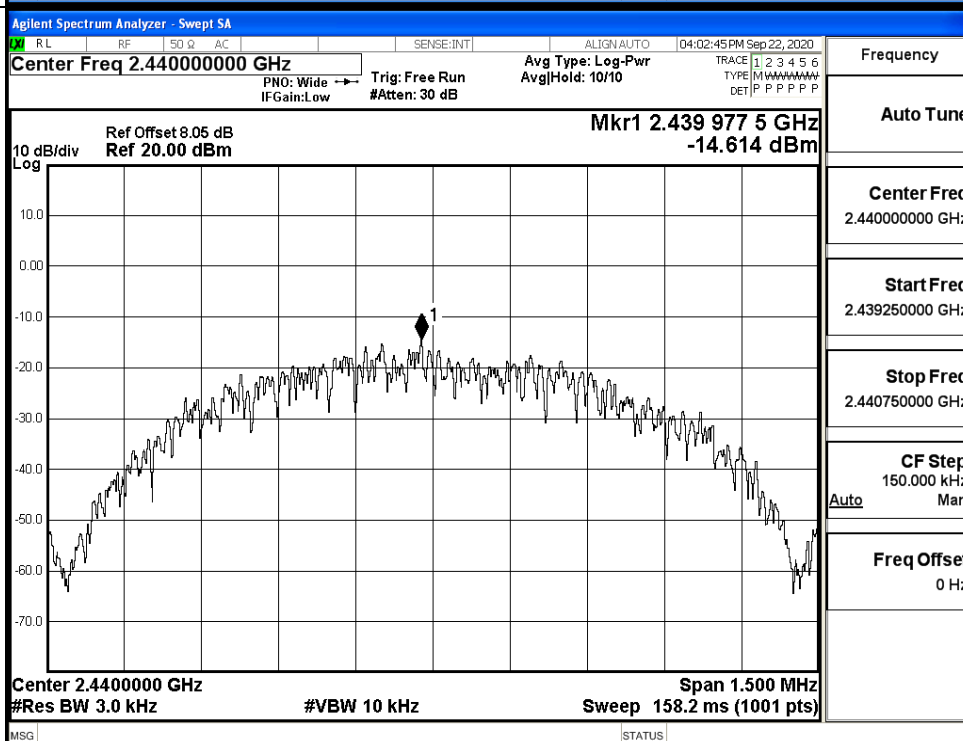
| Mode | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH | -15.829 | 8 | PASS |
| BT LE | MCH | -14.614 | 8 | PASS |
| BT LE | HCH | -15.845 | 8 | PASS |

Test Graphs

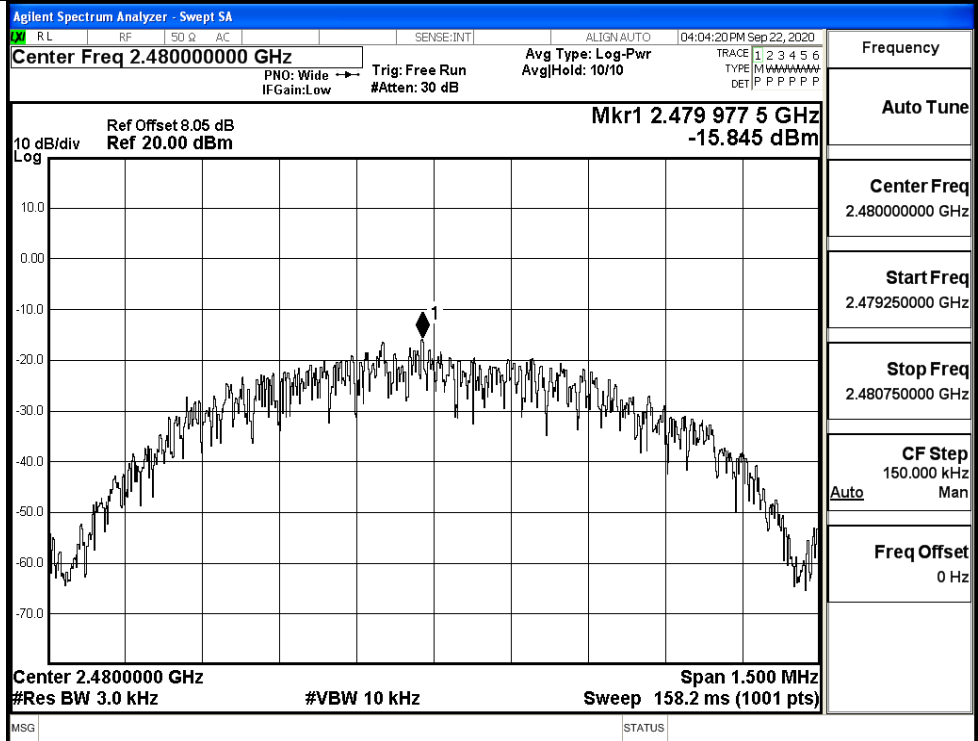
LCH



MCH



HCH

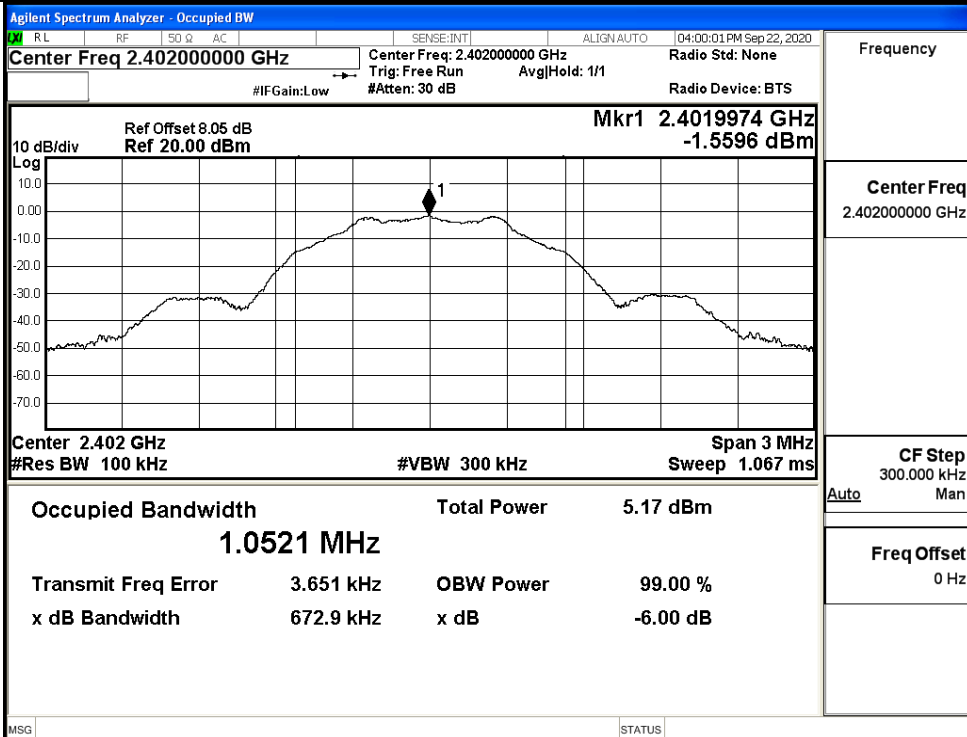


B.4 6dB Bandwidth

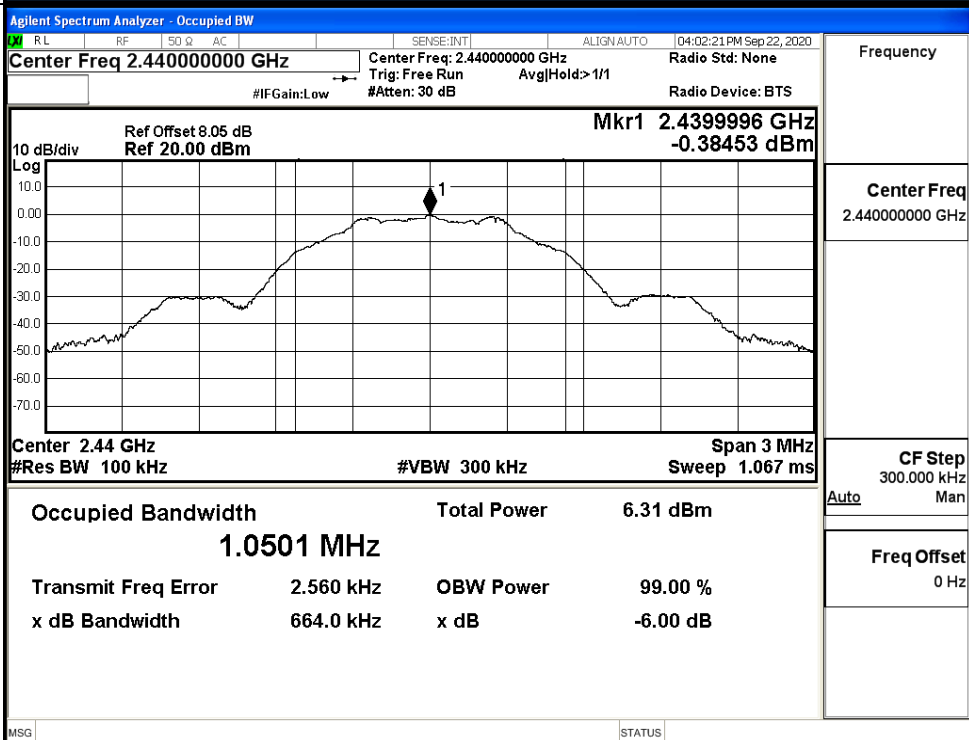
| Mode | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH | 0.6729 | ≥ 0.5 | PASS |
| BT LE | MCH | 0.6640 | ≥ 0.5 | PASS |
| BT LE | HCH | 0.6634 | ≥ 0.5 | PASS |

Test Graphs

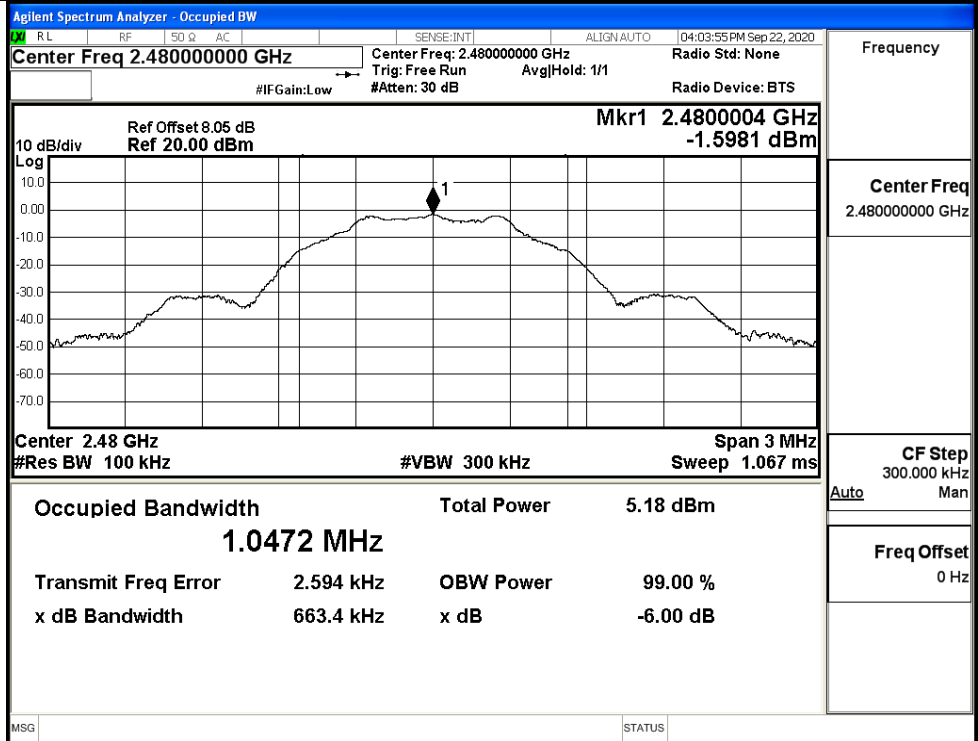
LCH



MCH



HCH

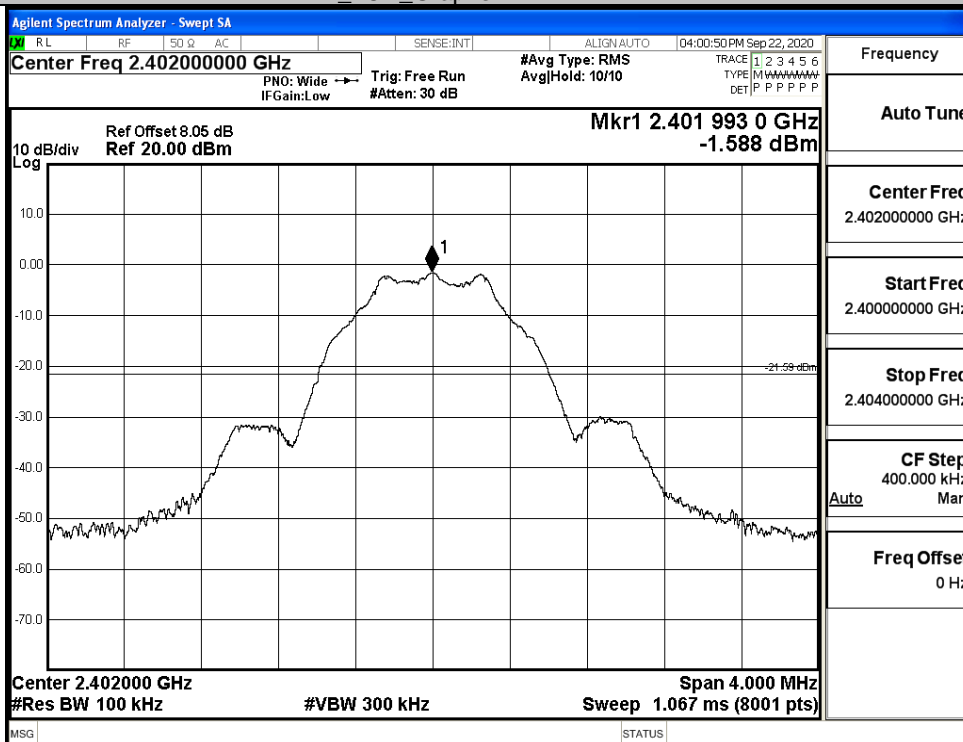


B.5 RF Conducted Spurious Emissions

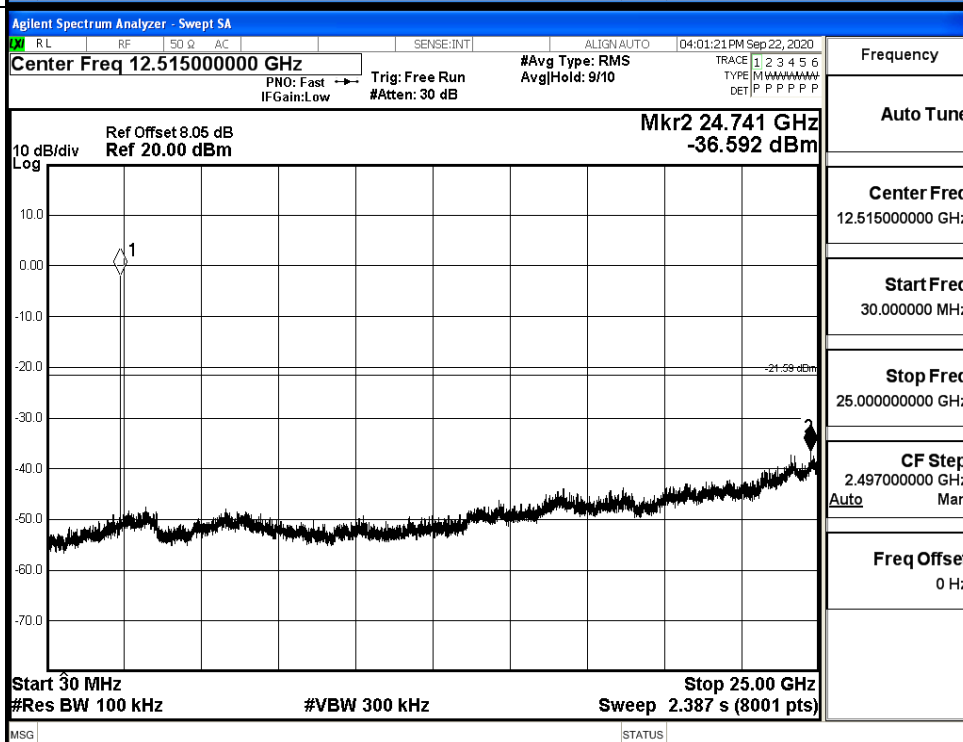
| Mode | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH | -1.588 | -36.592 | -21.588 | PASS |
| BT LE | MCH | -0.396 | -36.825 | -20.396 | PASS |
| BT LE | HCH | -1.588 | -37.742 | -21.588 | PASS |

BT LE_LCH_Graphs

Pref/BT LE/LCH

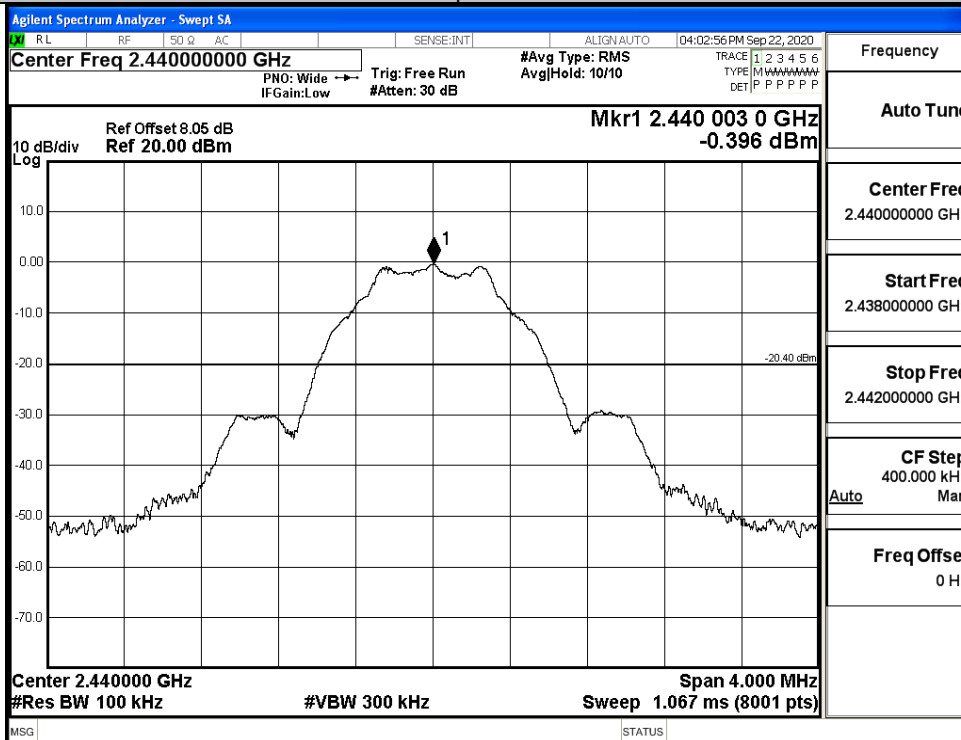


Puw/BT LE/LCH

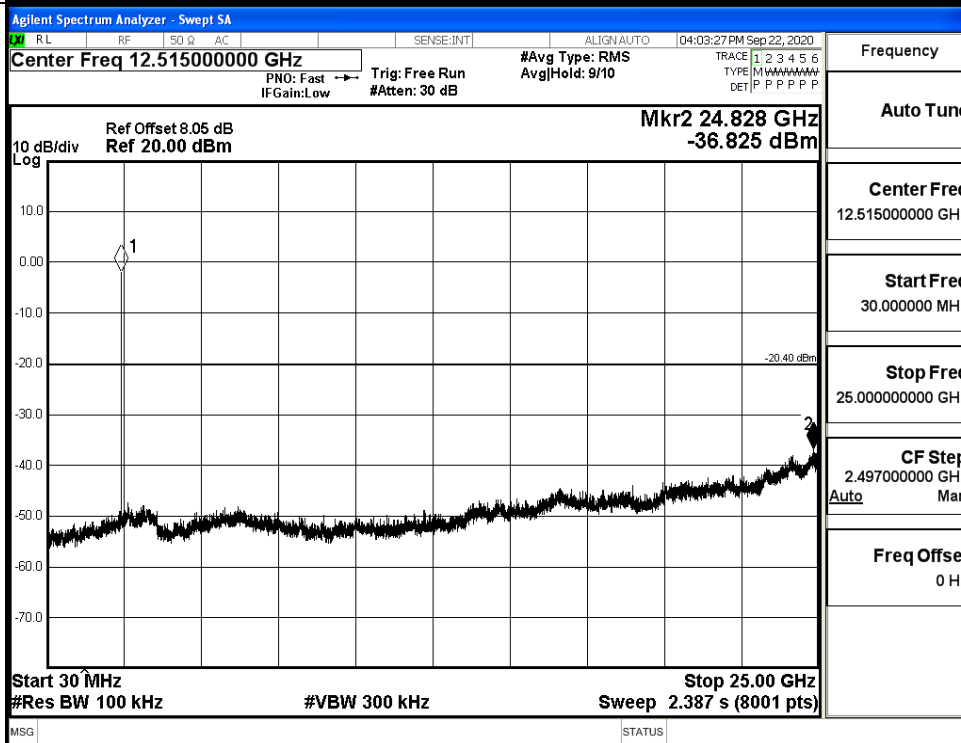


BT LE_MCH_Graphs

Pref/BT LE/MCH

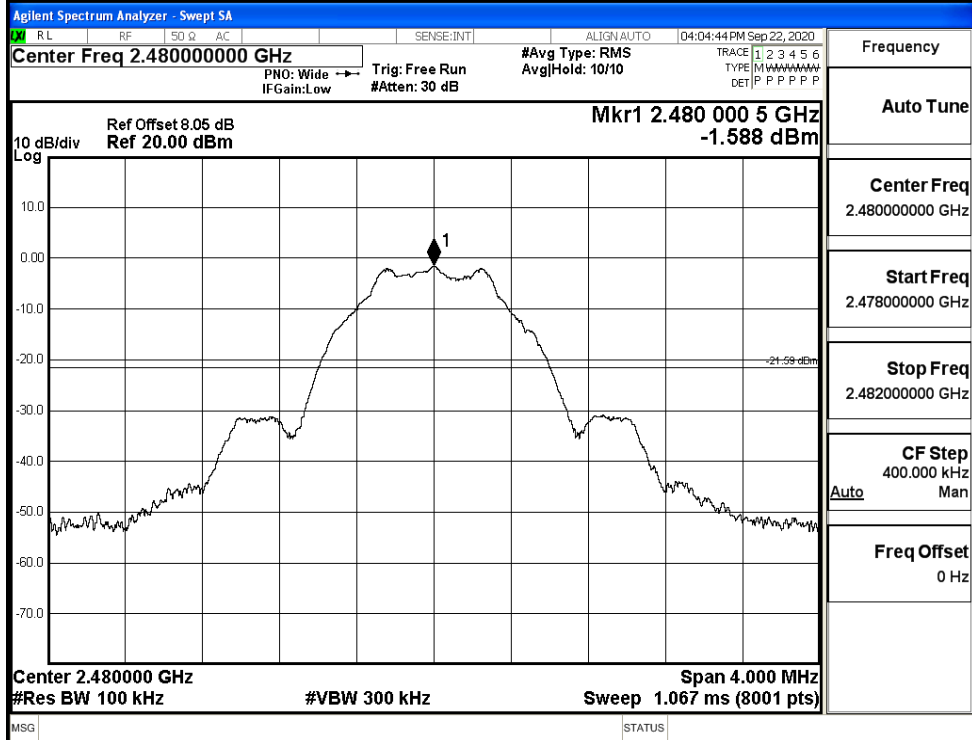


Puw/BT LE/MCH

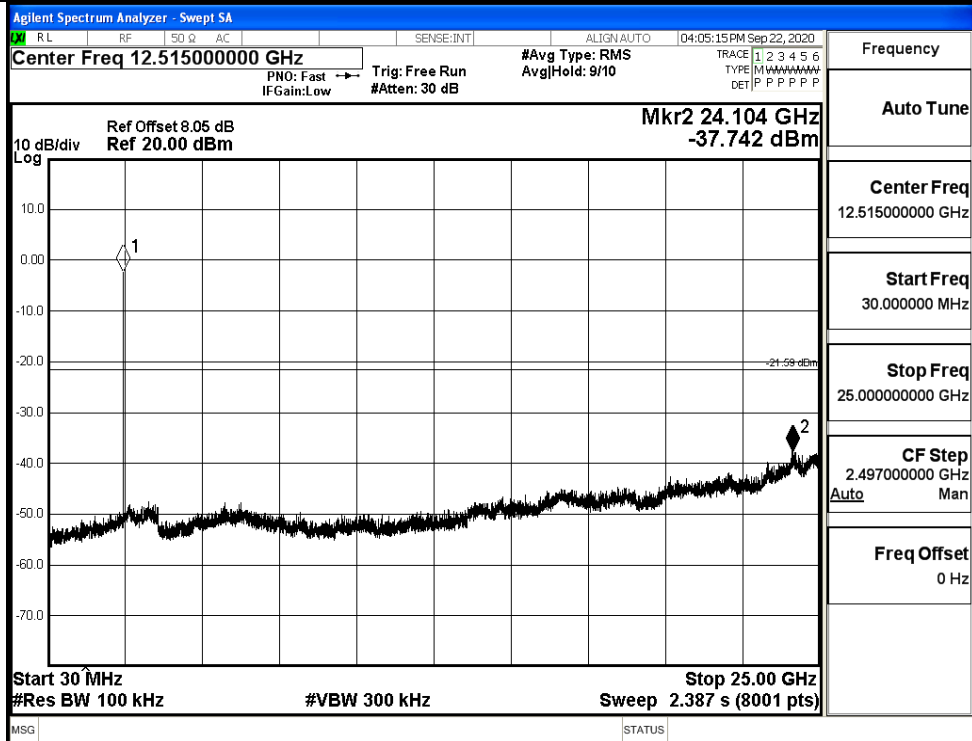


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

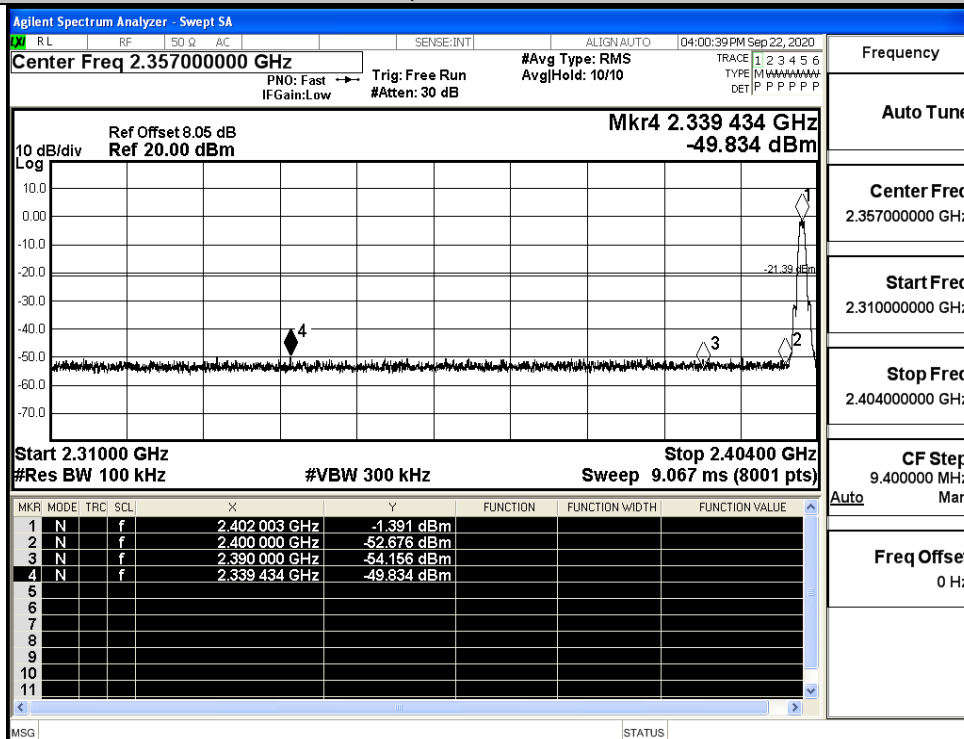


B.6 Band-edge for RF Conducted Emissions

| Mode | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH | -1.391 | -49.834 | -21.39 | PASS |
| BT LE | HCH | -1.464 | -49.181 | -21.46 | PASS |

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

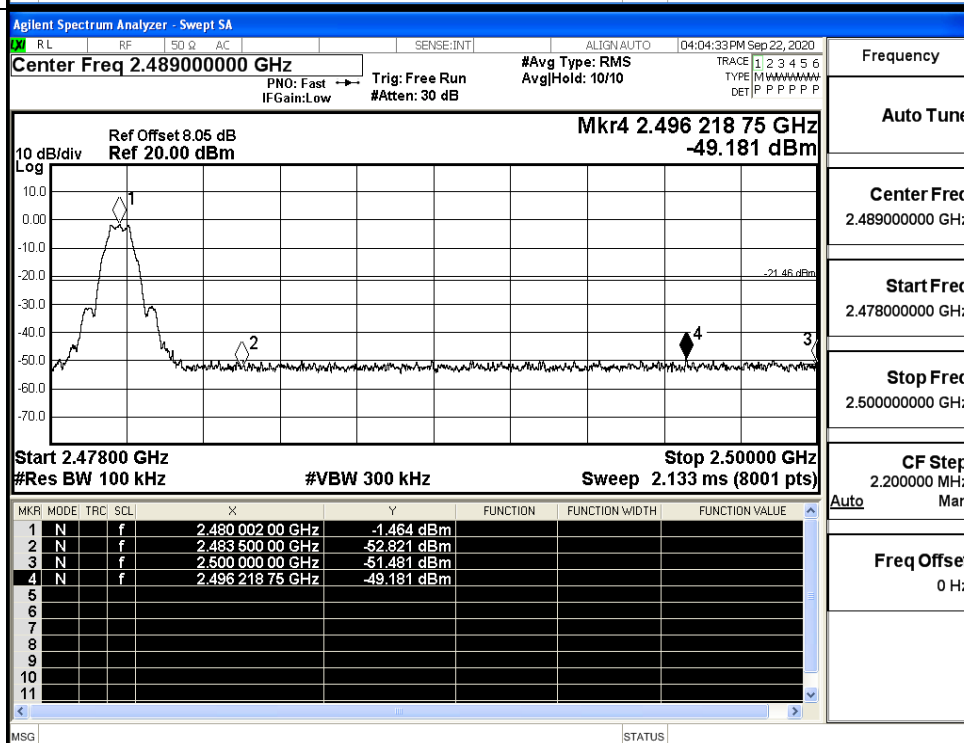
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

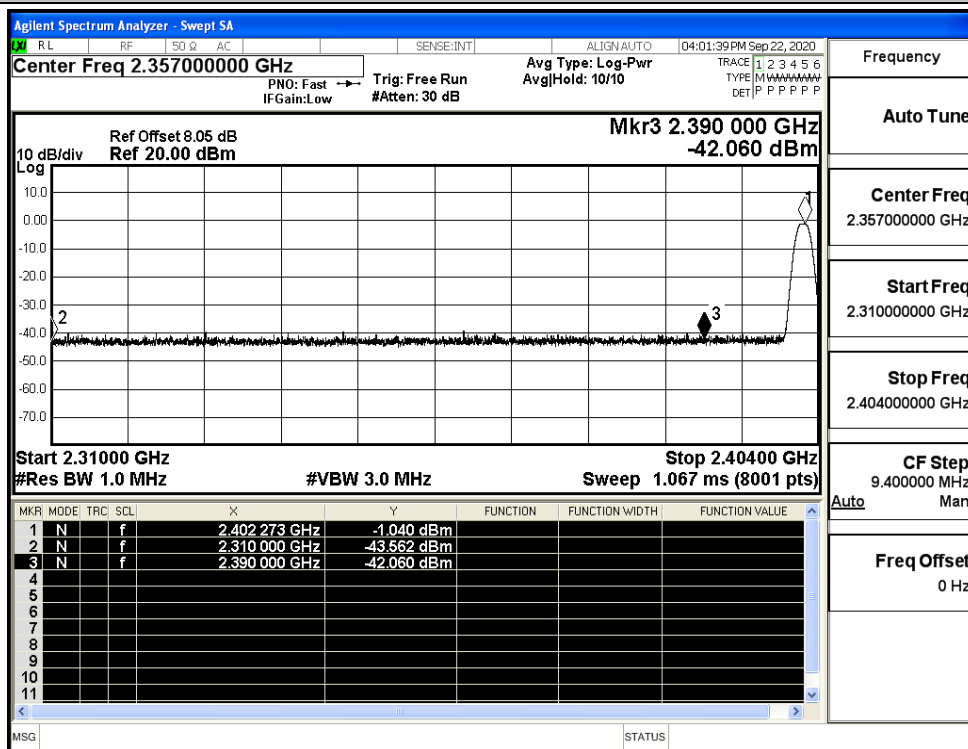
Freq Offset

0 Hz

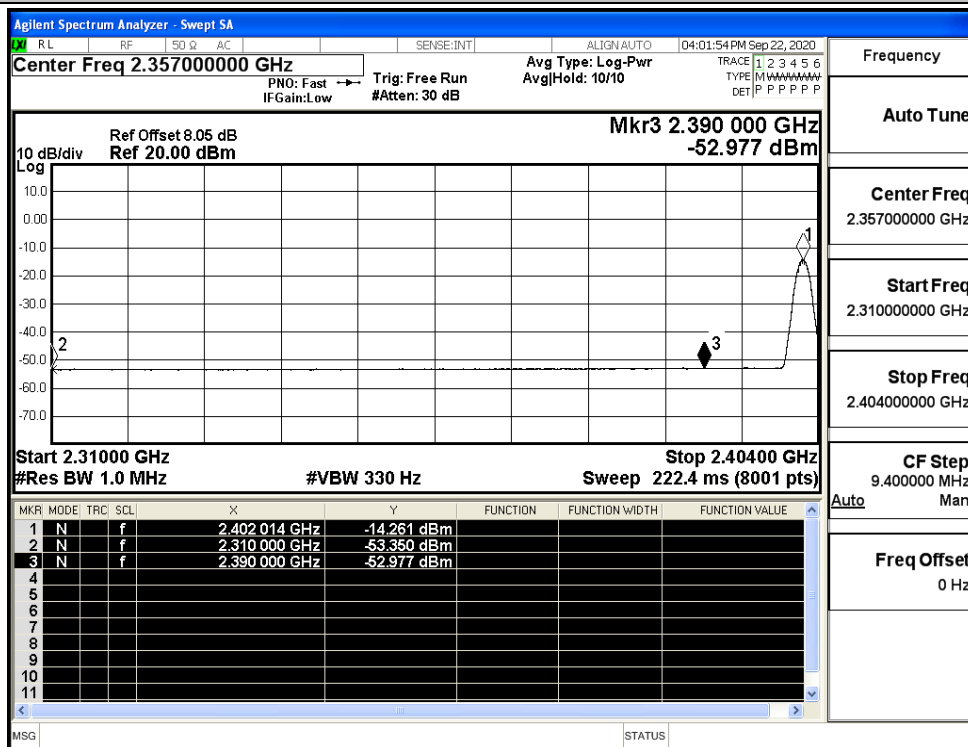
B.7 Restrict-band band-edge measurements

| Test Mode | Test Channel | Ant | Freq. | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdi |
|-----------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|-------|
| BT LE | 2402 | Ant1 | 2310.0 | -43.56 | 2.0 | 0 | 51.70 | PEAK | 74 | PASS |
| | | Ant1 | 2310.0 | -53.35 | 2.0 | 0 | 41.91 | AV | 54 | PASS |
| | | Ant1 | 2390.0 | -42.06 | 2.0 | 0 | 53.20 | PEAK | 74 | PASS |
| | | Ant1 | 2390.0 | -52.98 | 2.0 | 0 | 42.28 | AV | 54 | PASS |
| | 2480 | Ant1 | 2483.5 | -41.70 | 2.0 | 0 | 53.55 | PEAK | 74 | PASS |
| | | Ant1 | 2483.5 | -52.43 | 2.0 | 0 | 42.83 | AV | 54 | PASS |
| | | Ant1 | 2500.0 | -42.87 | 2.0 | 0 | 52.39 | PEAK | 74 | PASS |
| | | Ant1 | 2500.0 | -52.27 | 2.0 | 0 | 42.99 | AV | 54 | PASS |

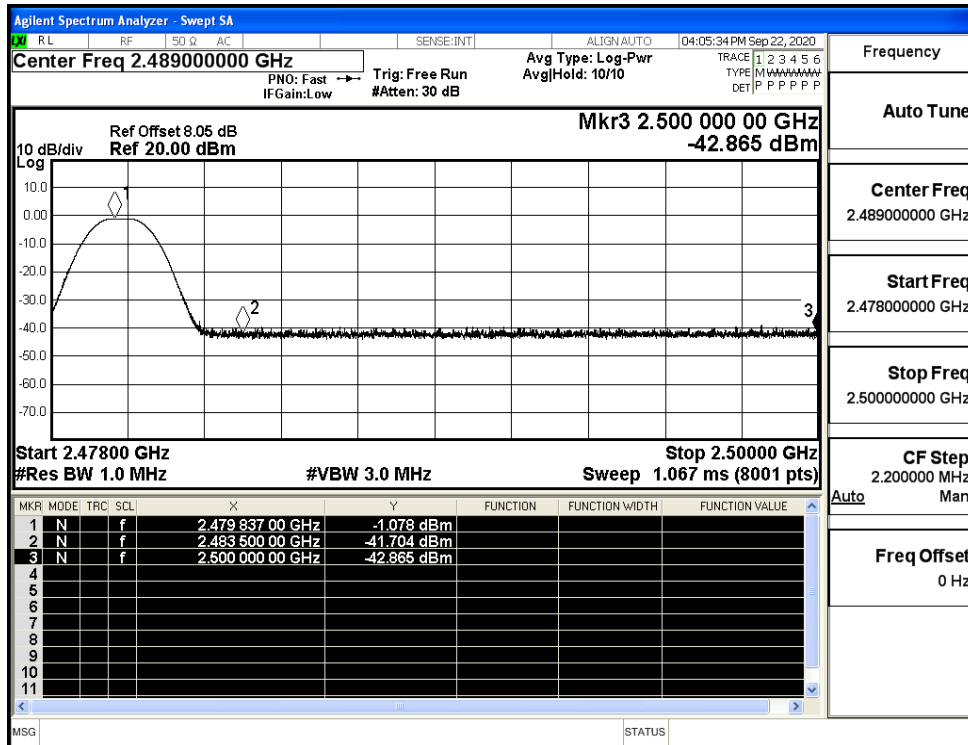
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

