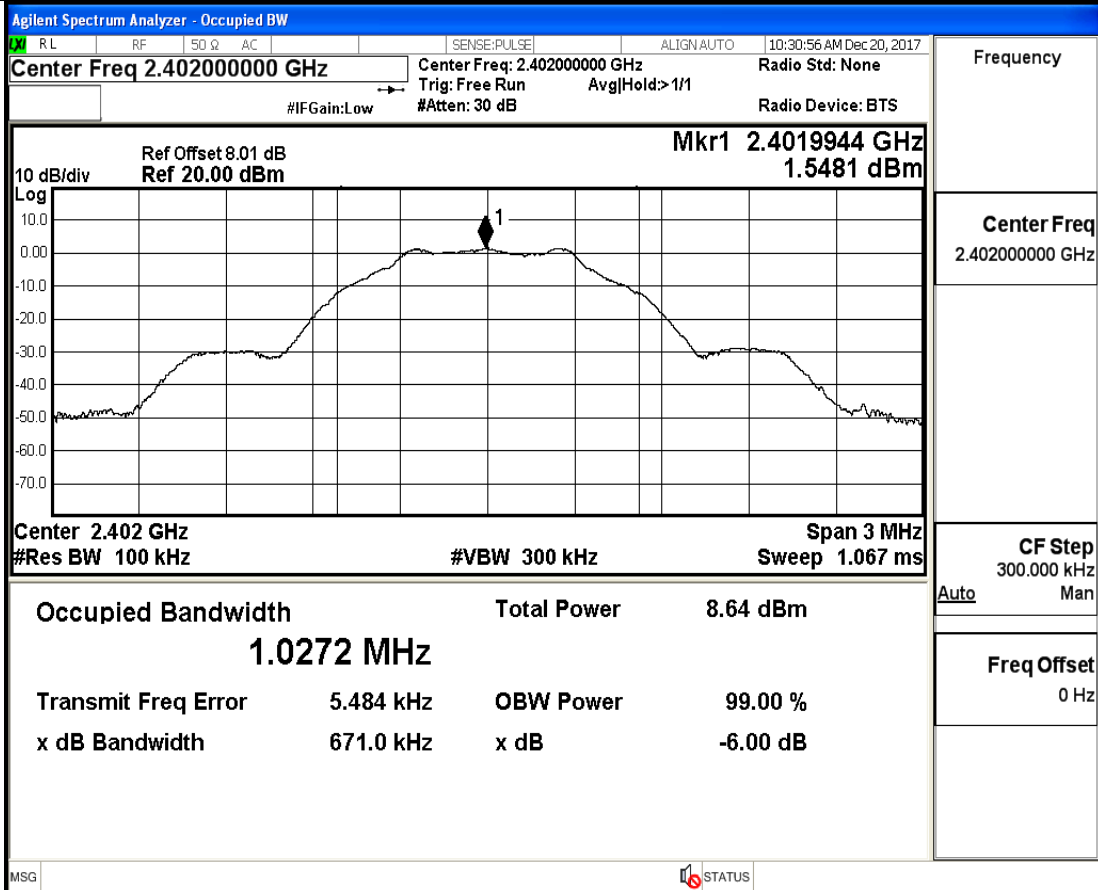


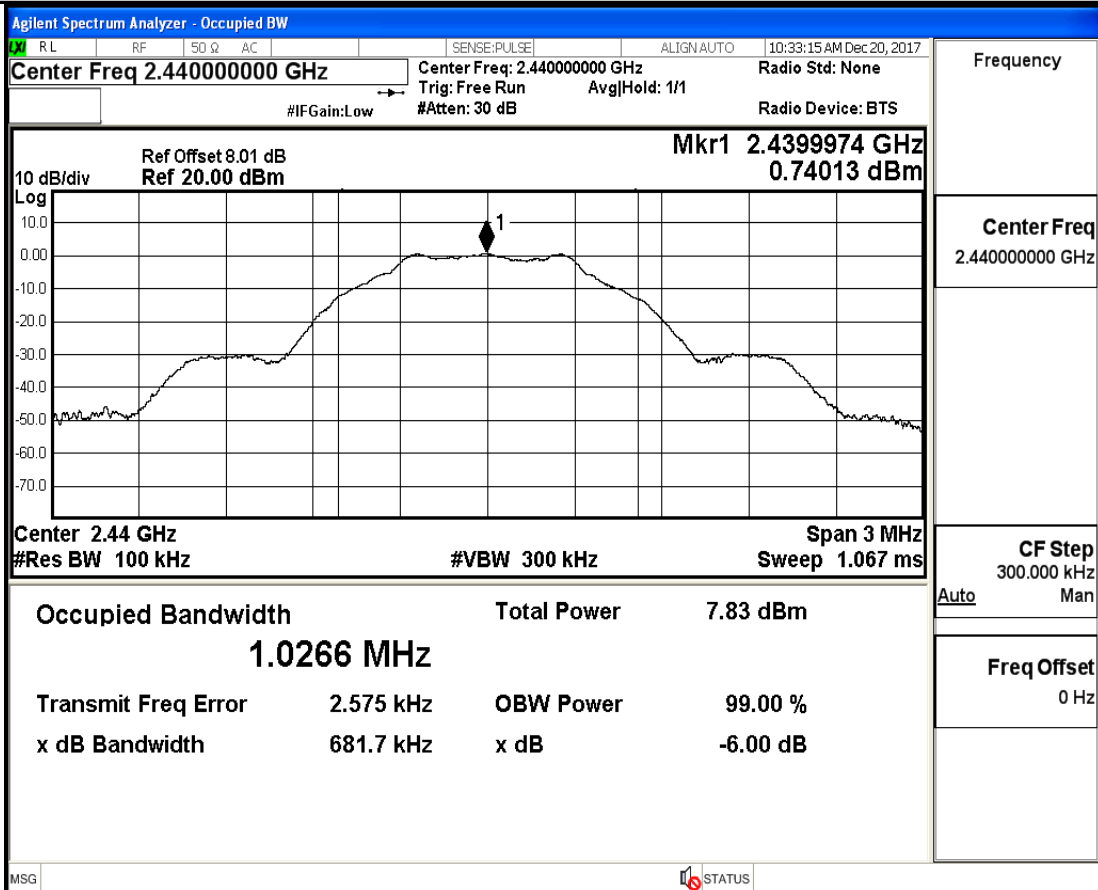
1.6dB Bandwidth

| Test Mode | Test Channel | Ant | EBW[MHz] | Limit | Verdict |
|-----------|--------------|------|----------|-------|---------|
| BLE | 2402 | Ant1 | 0.6710 | 0.5 | PASS |
| BLE | 2440 | Ant1 | 0.6817 | 0.5 | PASS |
| BLE | 2480 | Ant1 | 0.6917 | 0.5 | PASS |

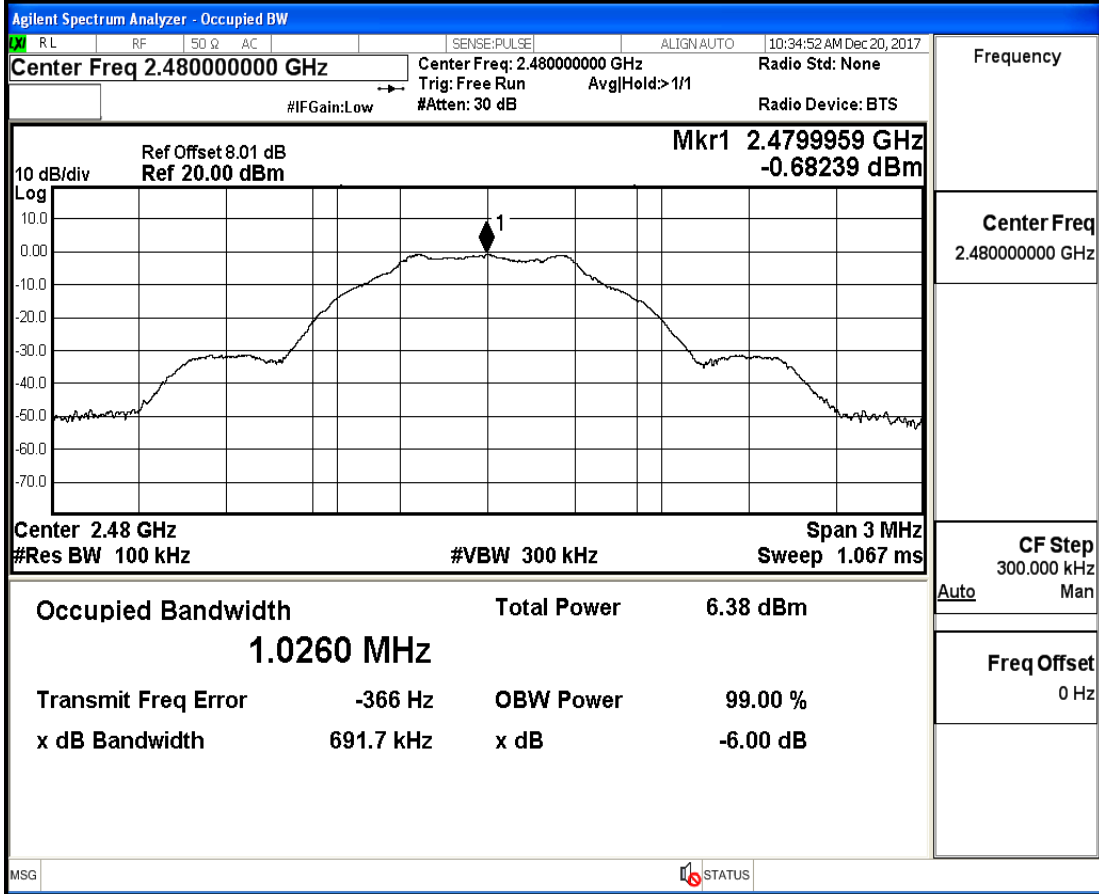
6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1



6dB Bandwidth_BLE_2480_Ant1



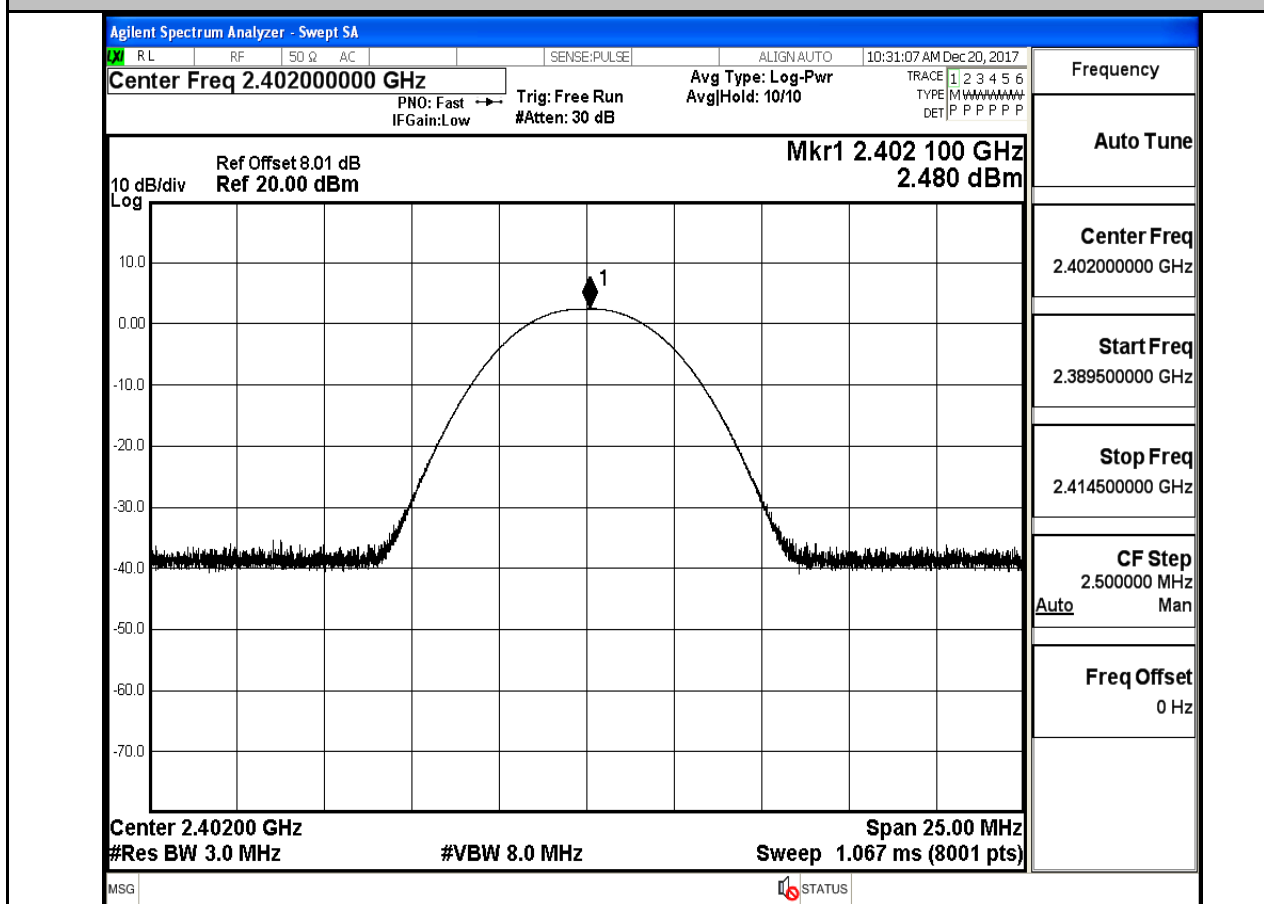
2.Occupied Bandwidth

| Test Mode | Test Channel | Ant | OBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|-----|----------|------------|---------|
|-----------|--------------|-----|----------|------------|---------|

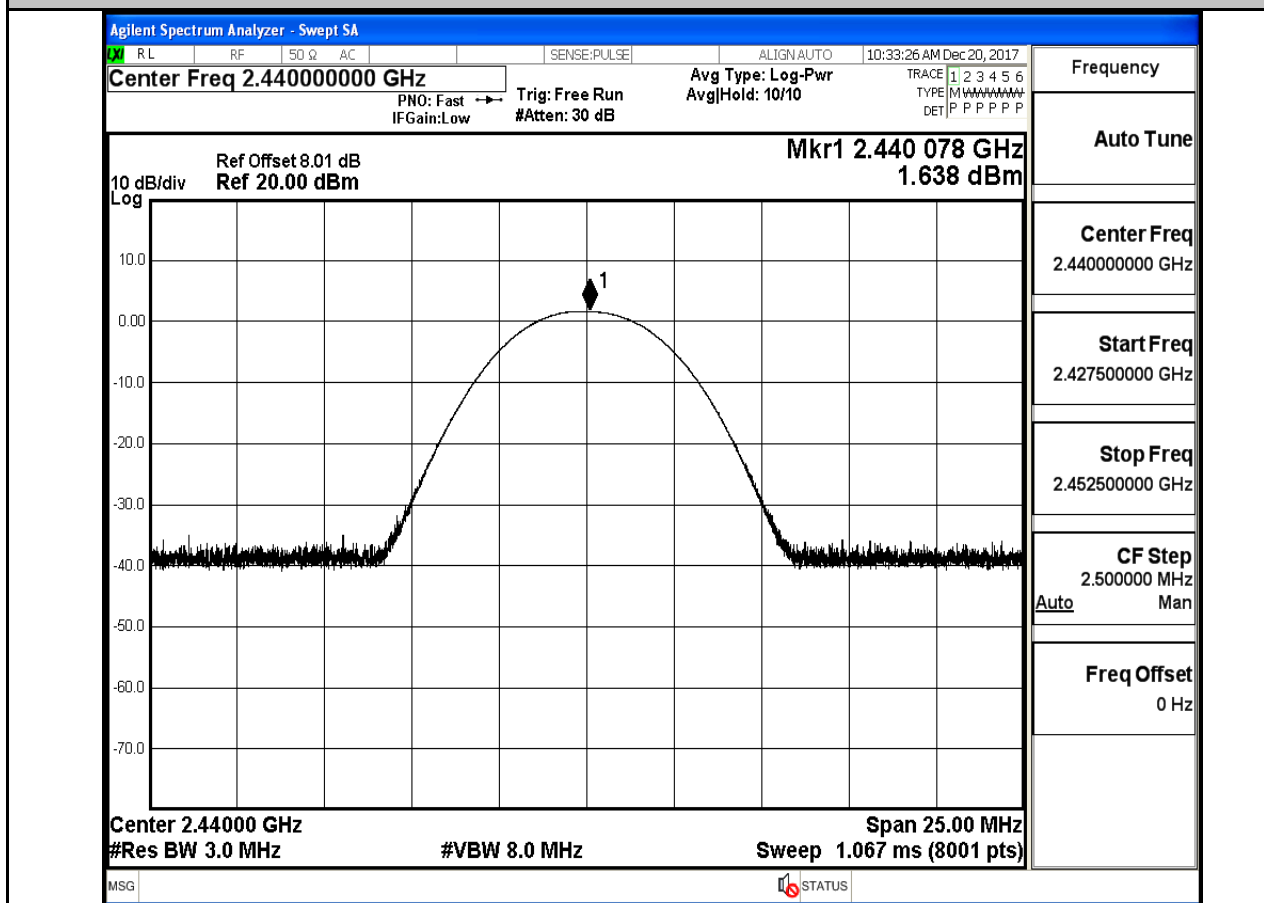
3.Maximum peak conducted output power

| Test Mode | Test Channel | Ant | Power[dBm] | Limit[dBm] | Verdict |
|-----------|--------------|------|------------|------------|---------|
| BLE | 2402 | Ant1 | 2.480 | 30 | PASS |
| BLE | 2440 | Ant1 | 1.638 | 30 | PASS |
| BLE | 2480 | Ant1 | 0.356 | 30 | PASS |

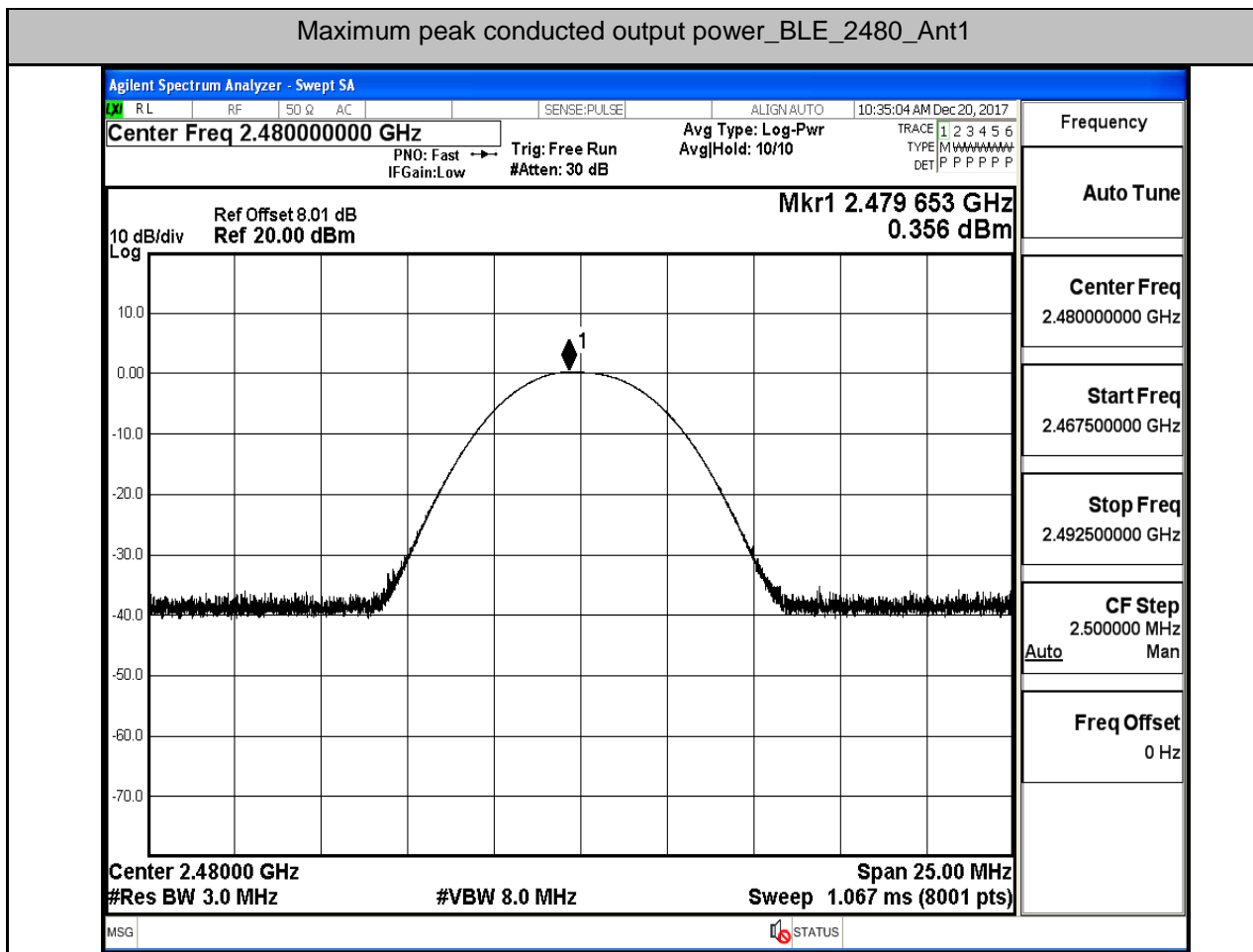
Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1



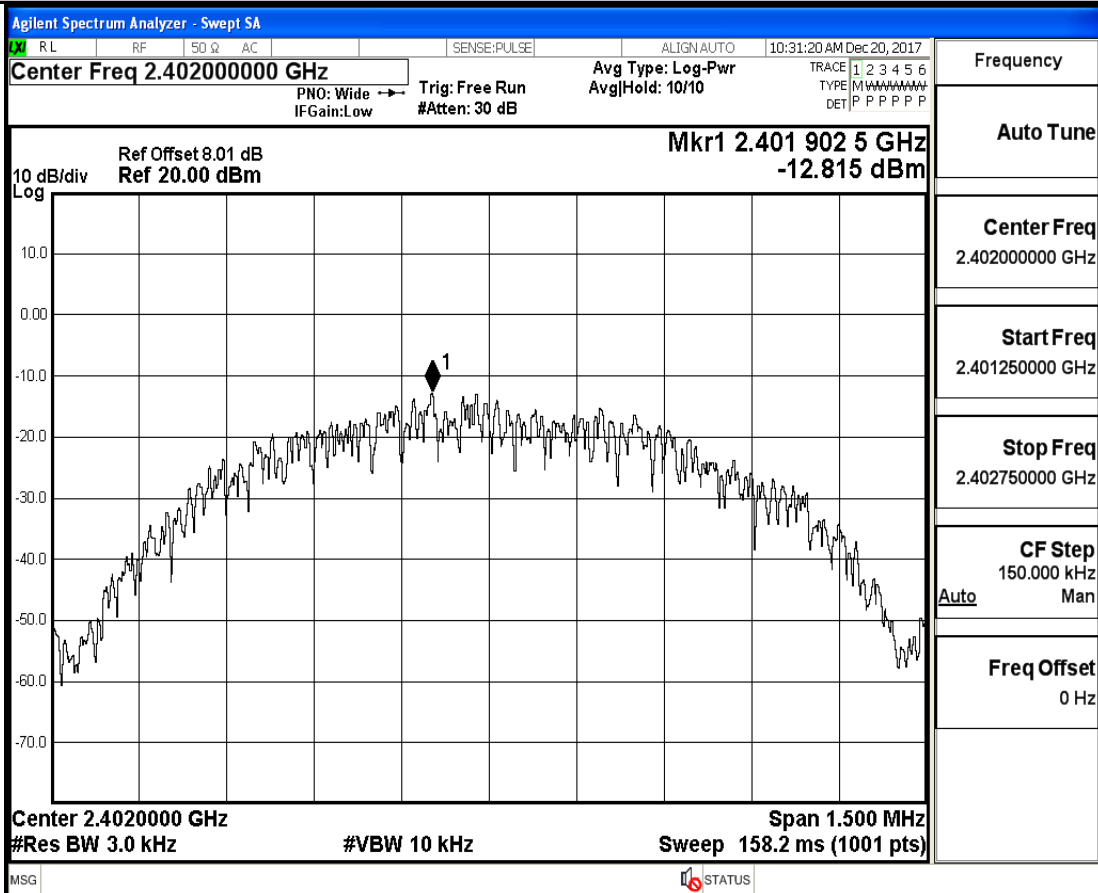
Maximum peak conducted output power_BLE_2480_Ant1



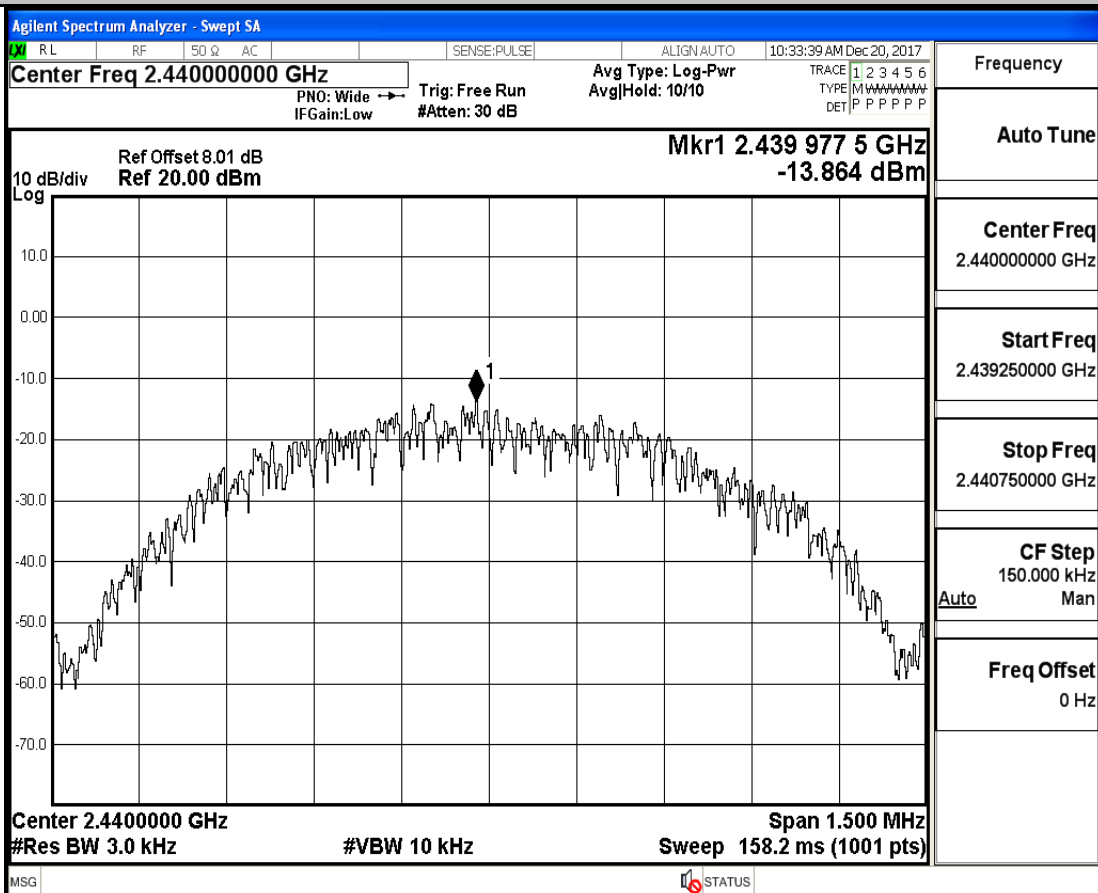
4.Maximum Peak power spectral density

| Test Mode | Test Channel | Ant | PSD[dBm/3KHz] | Limit[dBm/3KHz] | Verdict |
|-----------|--------------|------|---------------|-----------------|---------|
| BLE | 2402 | Ant1 | -12.815 | 8.00 | PASS |
| BLE | 2440 | Ant1 | -13.864 | 8.00 | PASS |
| BLE | 2480 | Ant1 | -14.977 | 8.00 | PASS |

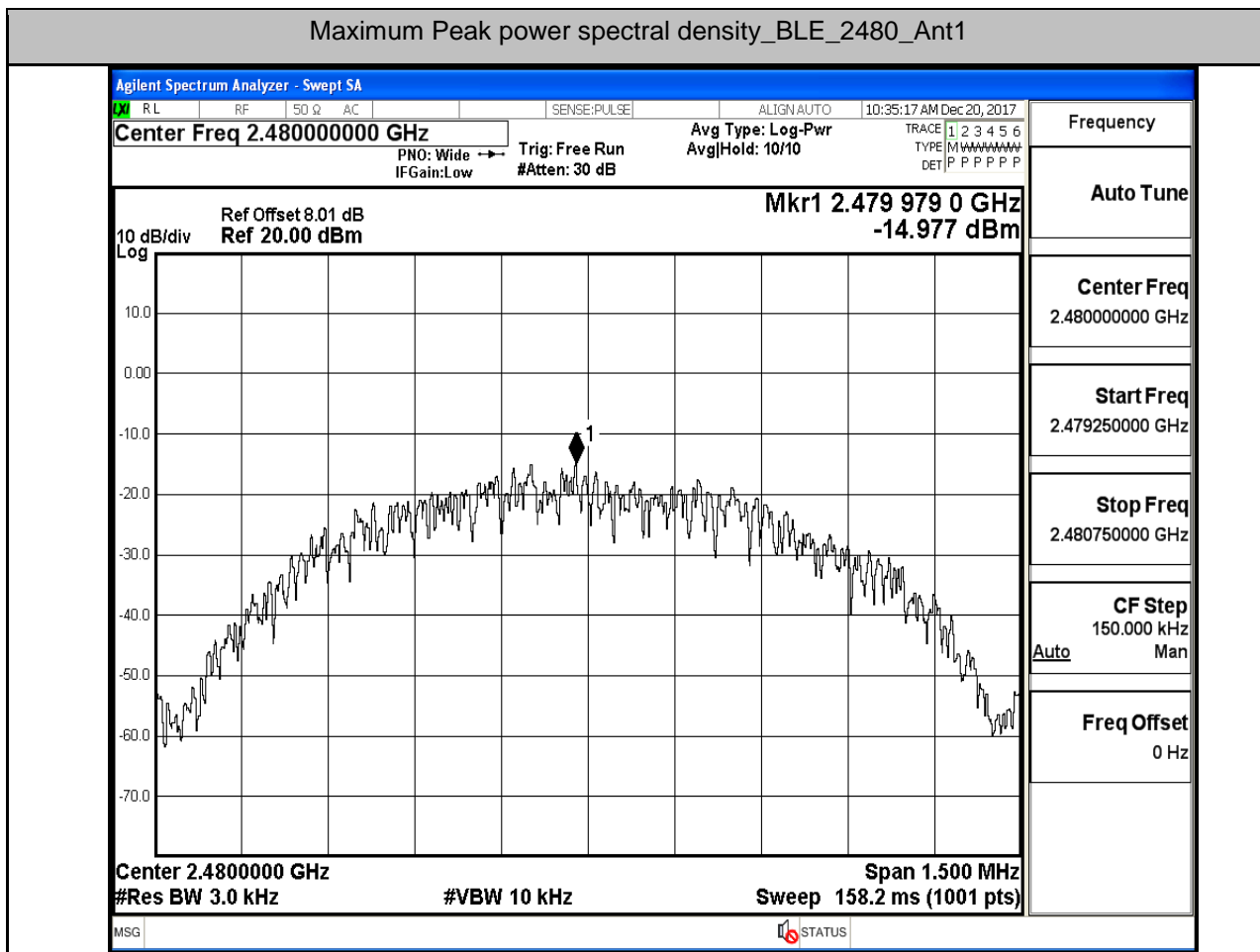
Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density_BLE_2440_Ant1



Maximum Peak power spectral density_BLE_2480_Ant1



5.Band-edge for RF Conducted Emissions

| Test Mode | Test Channel | Ant | Carrier Power[dBm] | Max. Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|--------------------|---------------------------|-------------|---------|
| BLE | 2402 | Ant1 | 1.696 | -49.930 | -18.3 | PASS |
| BLE | 2480 | Ant1 | -0.467 | -50.123 | -20.47 | PASS |

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 10:31:31 AM Dec 20, 2017

Center Freq 2.35700000 GHz

PNO: Fast → Trg: Free Run #Ave: 30 dB

#Avg Type: RMS Avg|Hold: 10/10

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET P P P P P P

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr4 2.373 450 GHz
-49.930 dBm

10 dB/div
Log

Start 2.31000 GHz
#Res BW 100 kHz

Stop 2.40400 GHz
#VBW 300 kHz
Sweep 9.067 ms (8001 pts)

| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-----|---------------|-------------|----------|----------------|----------------|
| 1 | N | f | | 2.401 991 GHz | 1.696 dBm | | | |
| 2 | N | f | | 2.400 000 GHz | -52.061 dBm | | | |
| 3 | N | f | | 2.390 000 GHz | -53.660 dBm | | | |
| 4 | N | f | | 2.373 450 GHz | -49.930 dBm | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |

Frequency

Auto Tune

Center Freq
2.35700000 GHz

Start Freq
2.31000000 GHz

Stop Freq
2.40400000 GHz

CF Step
9.400000 MHz

Auto

Freq Offset
0 Hz

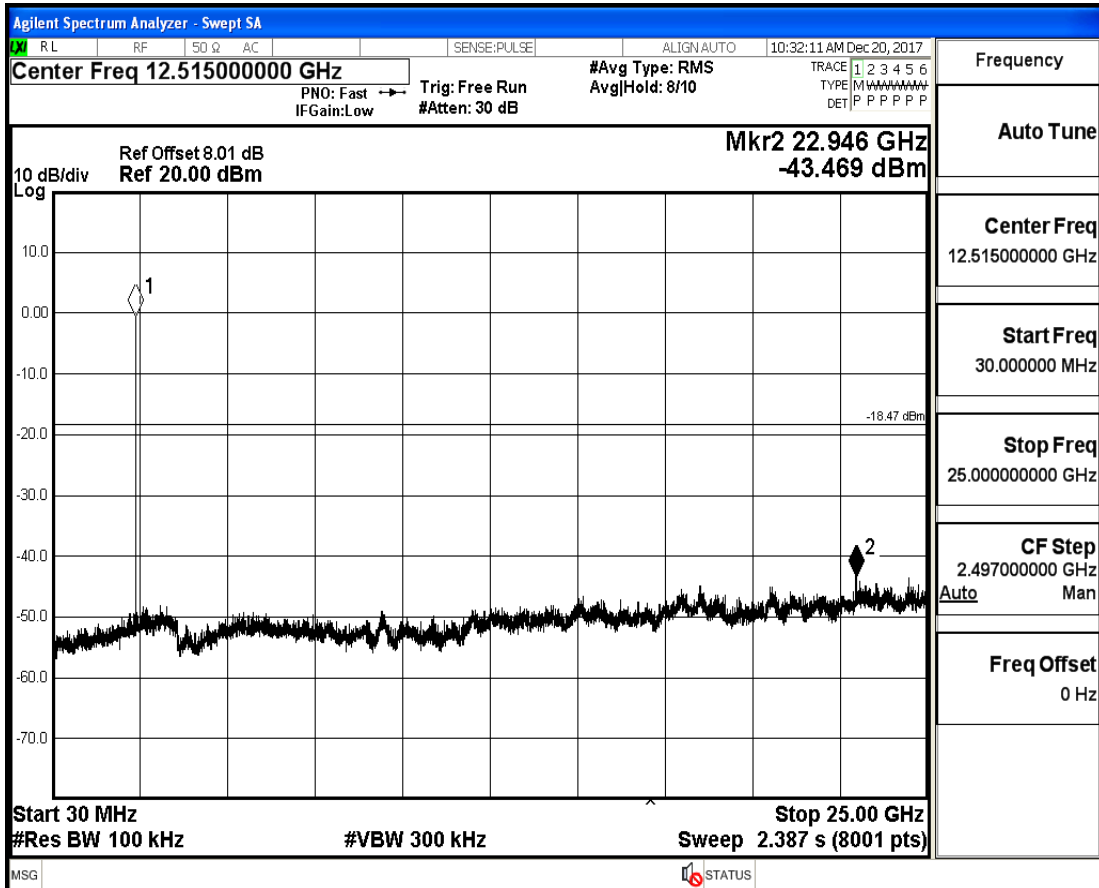
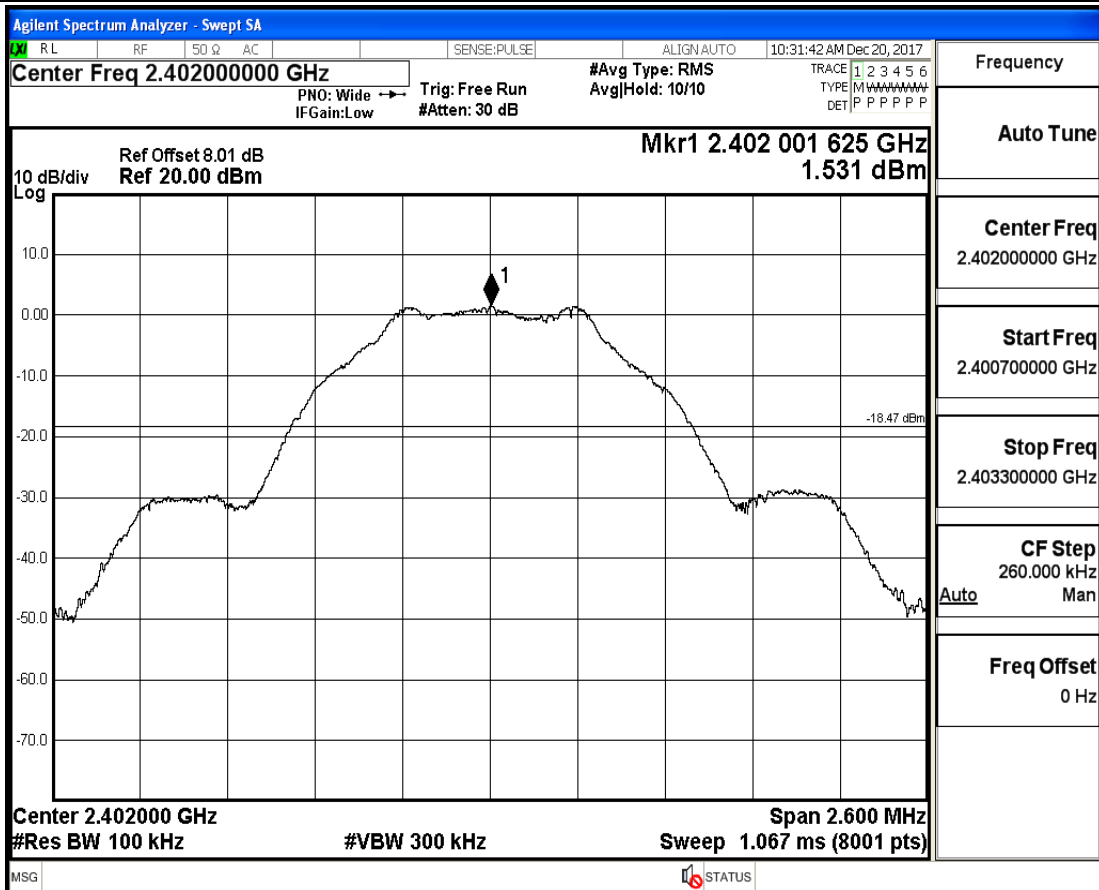
MSG STATUS

[illegible]

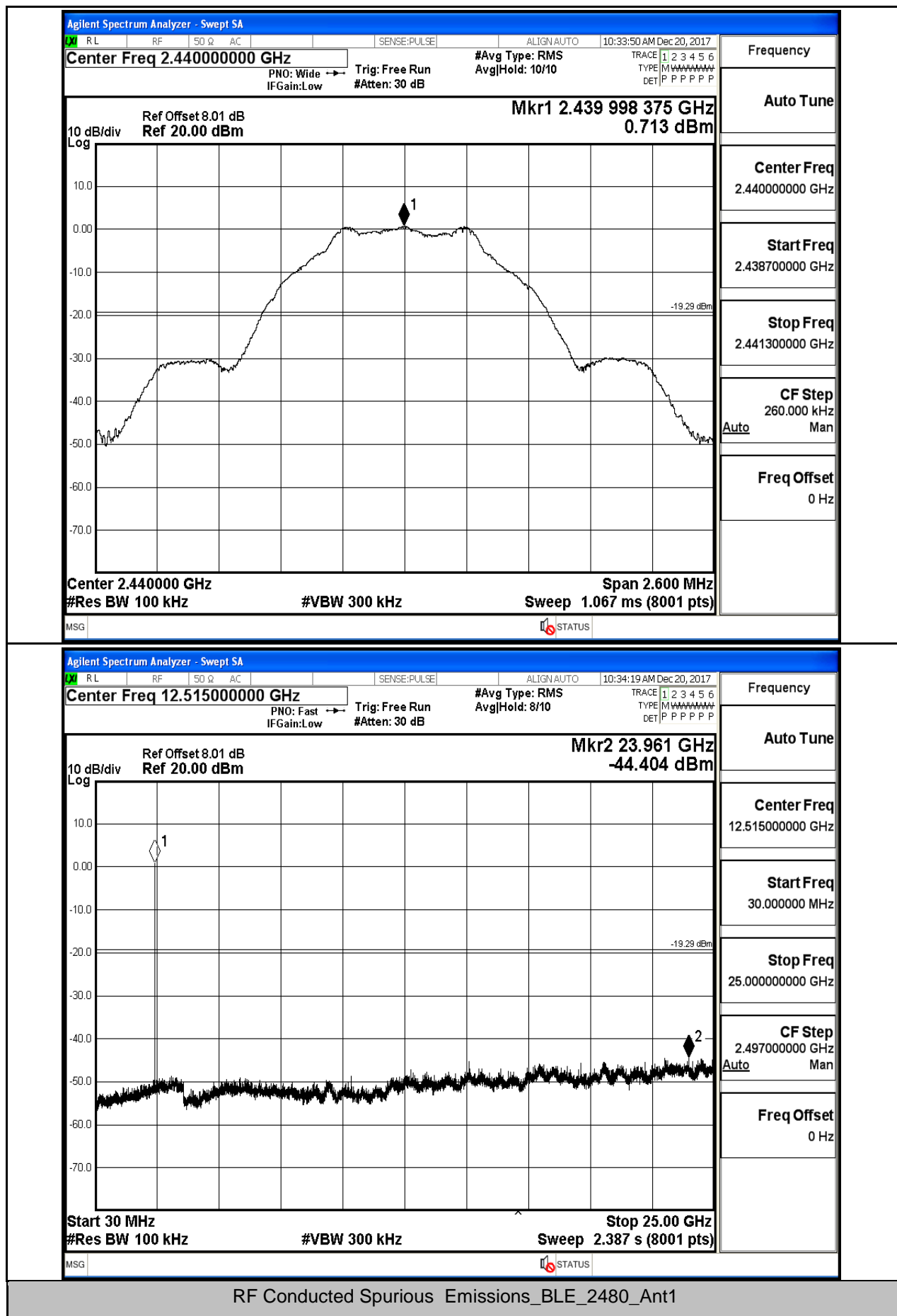
6.RF Conducted Spurious Emissions

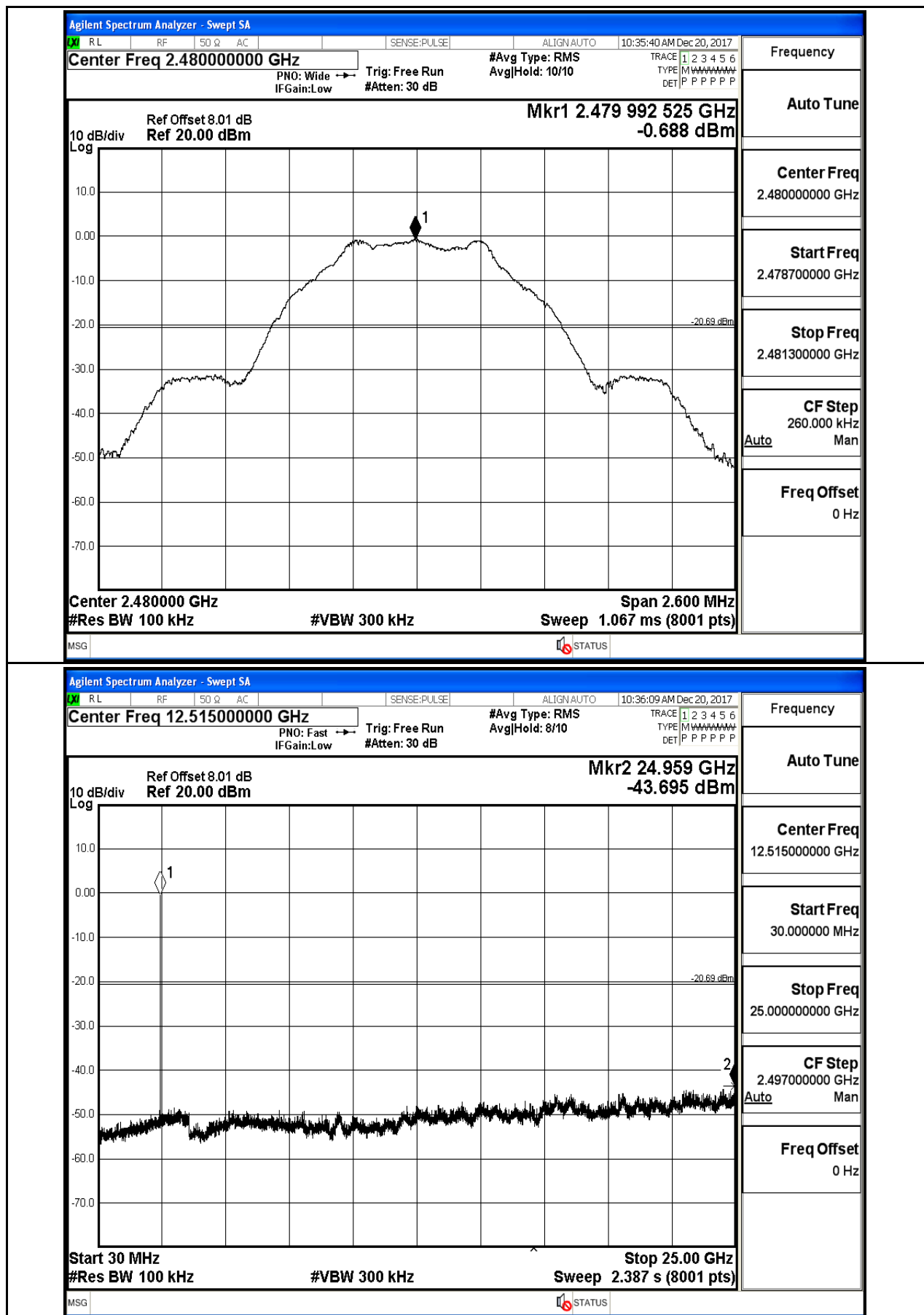
| Test Mode | Test Channel | Ant | StartFre [MHz] | StopFre [MHz] | RBW [kHz] | VBW [kHz] | Pref[dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|----------------|---------------|-----------|-----------|-----------|------------------|-------------|---------|
| BLE | 2402 | Ant1 | 30 | 25000 | 100 | 300 | 1.531 | -43.469 | <-18.469 | PASS |
| BLE | 2440 | Ant1 | 30 | 25000 | 100 | 300 | 0.713 | -44.404 | <-19.287 | PASS |
| BLE | 2480 | Ant1 | 30 | 25000 | 100 | 300 | -0.688 | -43.695 | <-20.688 | PASS |

RF Conducted Spurious Emissions_BLE_2402_Ant1



RF Conducted Spurious Emissions_BLE_2440_Ant1

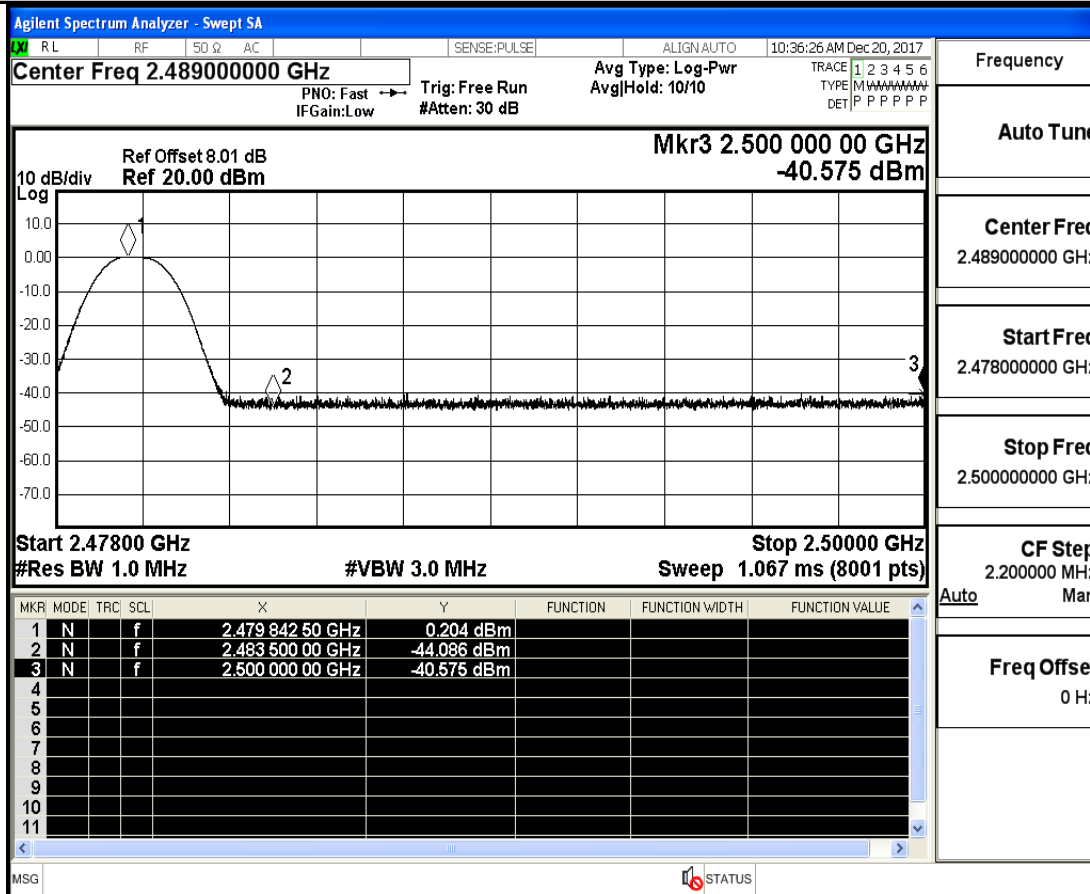




7.Restrict-band band-edge measurements

| Test Mode | Test Channel | Ant | Freq. | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|-----------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|---------|
| BLE | 2402 | Ant1 | 2310.0 | -42.72 | 2 | 0 | 54.53 | PEAK | 74 | PASS |
| BLE | 2402 | Ant1 | 2310.0 | -54.33 | 2 | 0 | 42.93 | AV | 54 | PASS |
| BLE | 2402 | Ant1 | 2390.0 | -42.42 | 2 | 0 | 54.83 | PEAK | 74 | PASS |
| BLE | 2402 | Ant1 | 2390.0 | -54.10 | 2 | 0 | 43.16 | AV | 54 | PASS |
| BLE | 2480 | Ant1 | 2483.5 | -44.09 | 2 | 0 | 53.17 | PEAK | 74 | PASS |
| BLE | 2480 | Ant1 | 2483.5 | -53.86 | 2 | 0 | 43.40 | AV | 54 | PASS |
| BLE | 2480 | Ant1 | 2500.0 | -40.58 | 2 | 0 | 56.68 | PEAK | 74 | PASS |
| BLE | 2480 | Ant1 | 2500.0 | -53.73 | 2 | 0 | 43.53 | AV | 54 | PASS |

Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK

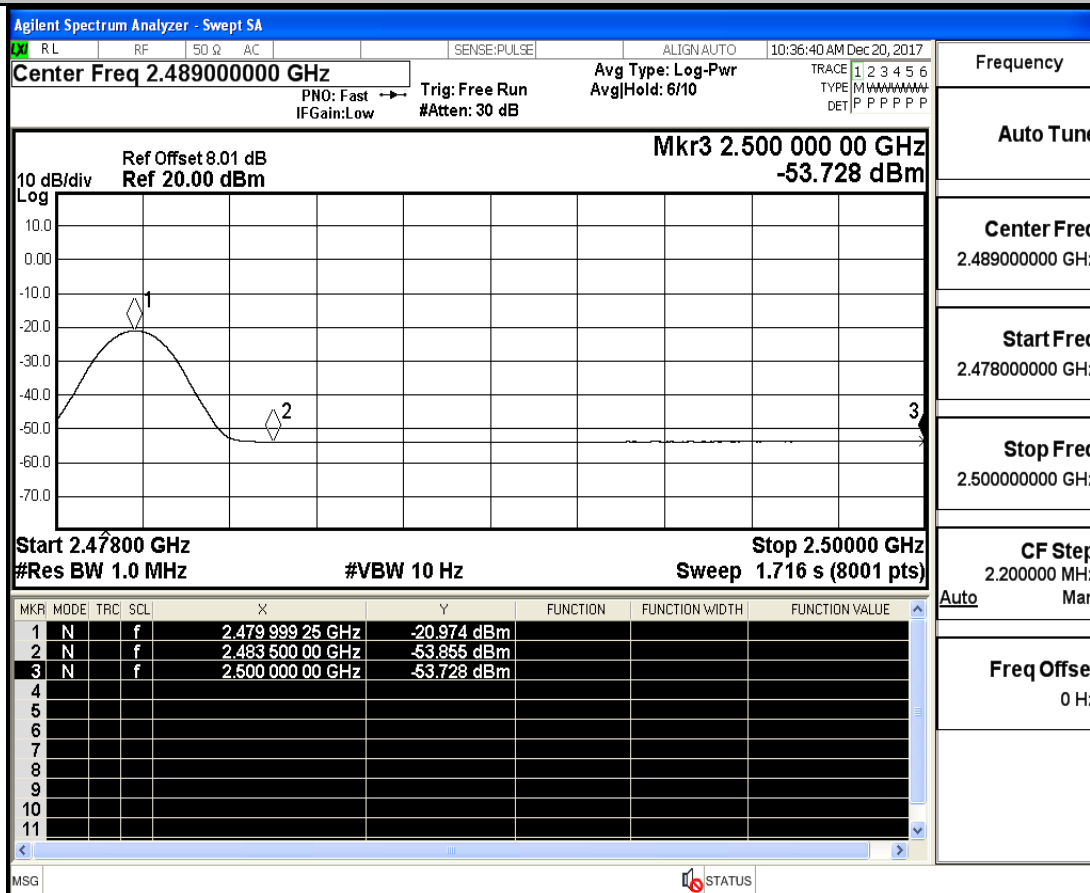


Frequency

Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

Restrict-band band-edge measurements_BLE_2480_Ant1_AV



Frequency

Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

8.Duty Cycle

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

