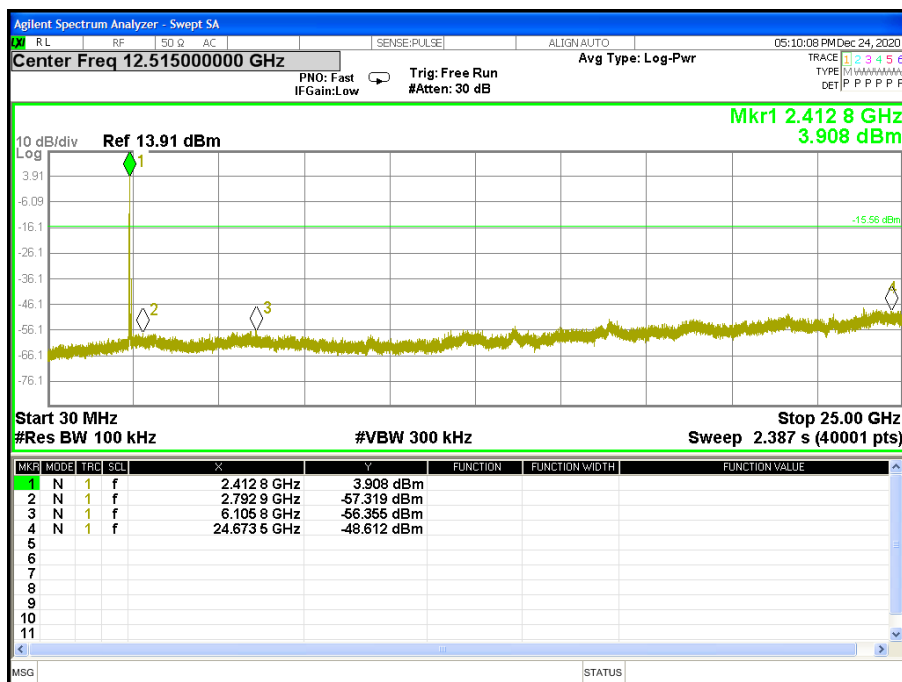




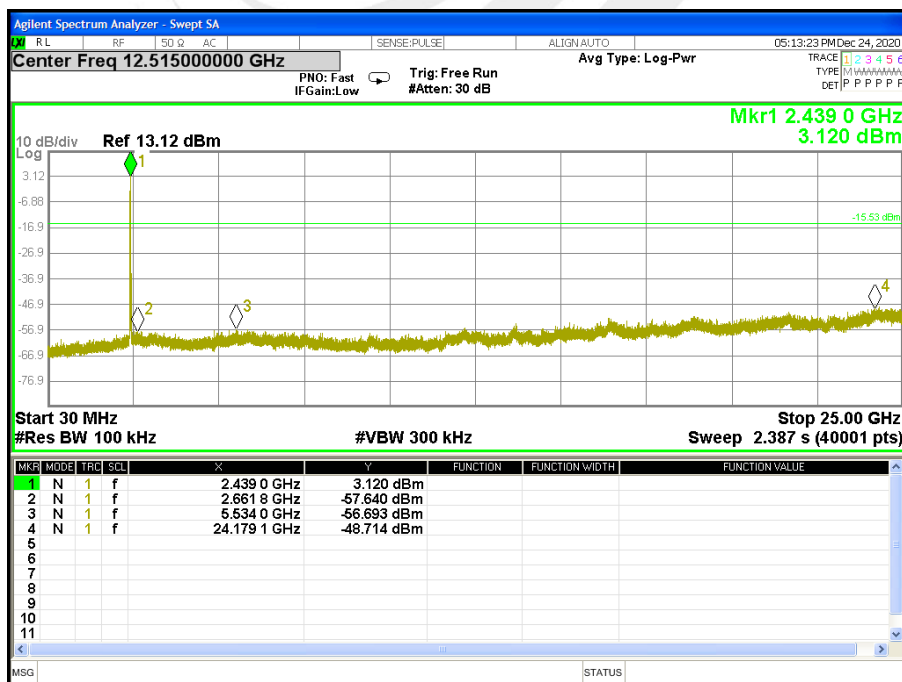
4.6 TEST RESULTS

| | | | |
|---------------|---------|--------------------|-----------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX b Mode /CH01, CH06, CH11 |

CH 01

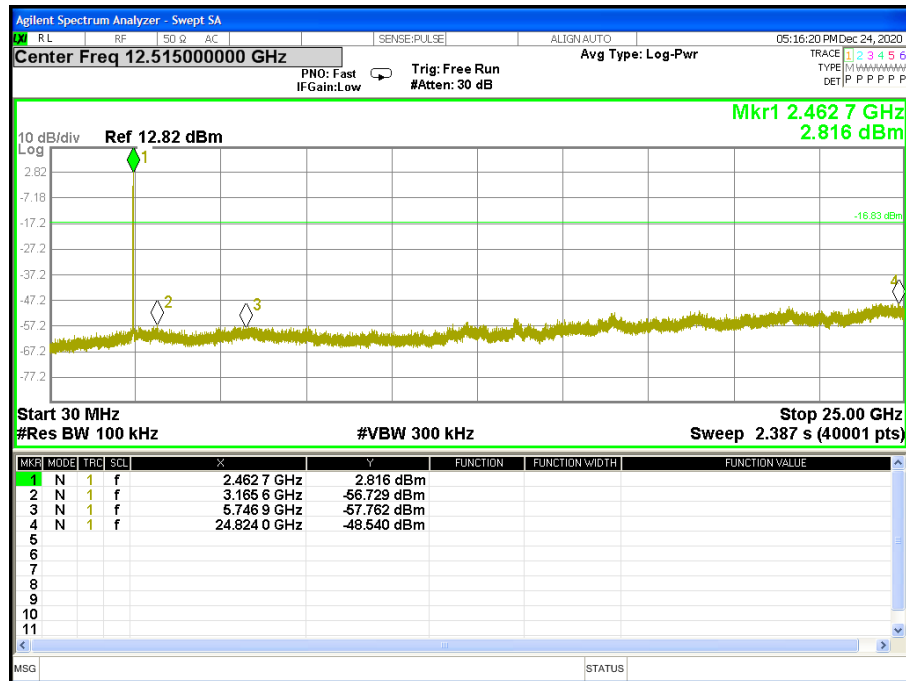


CH 06





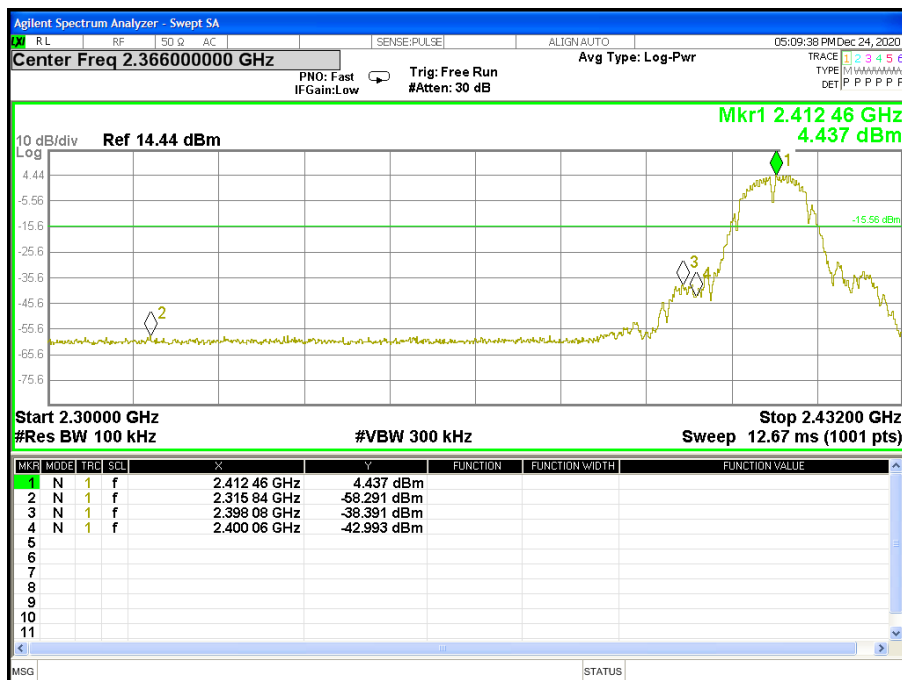
CH 11





Band edge(it's also the reference level for conducted spurious emission)

CH 01

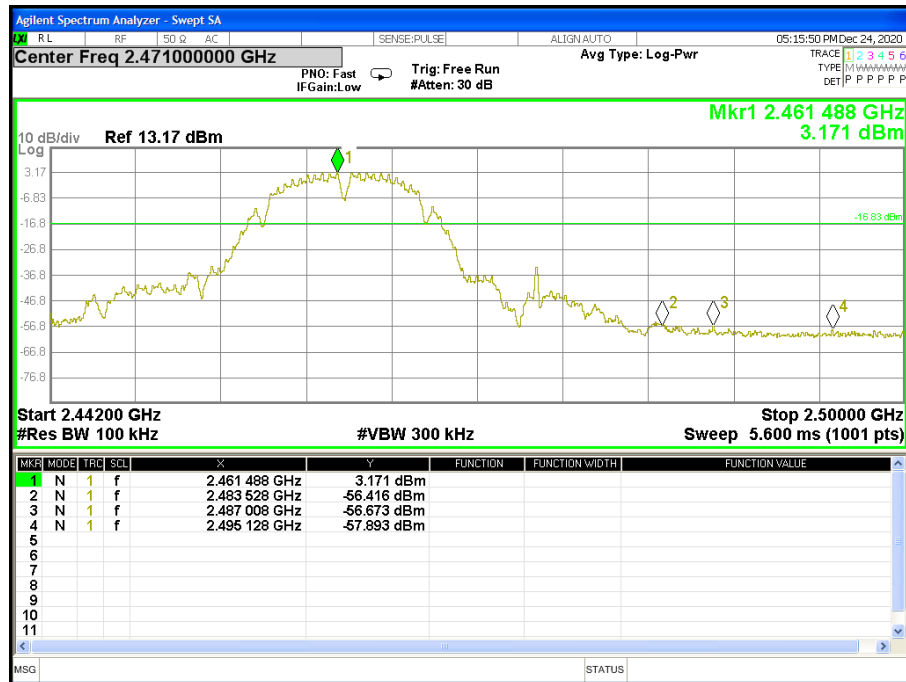


CH 06





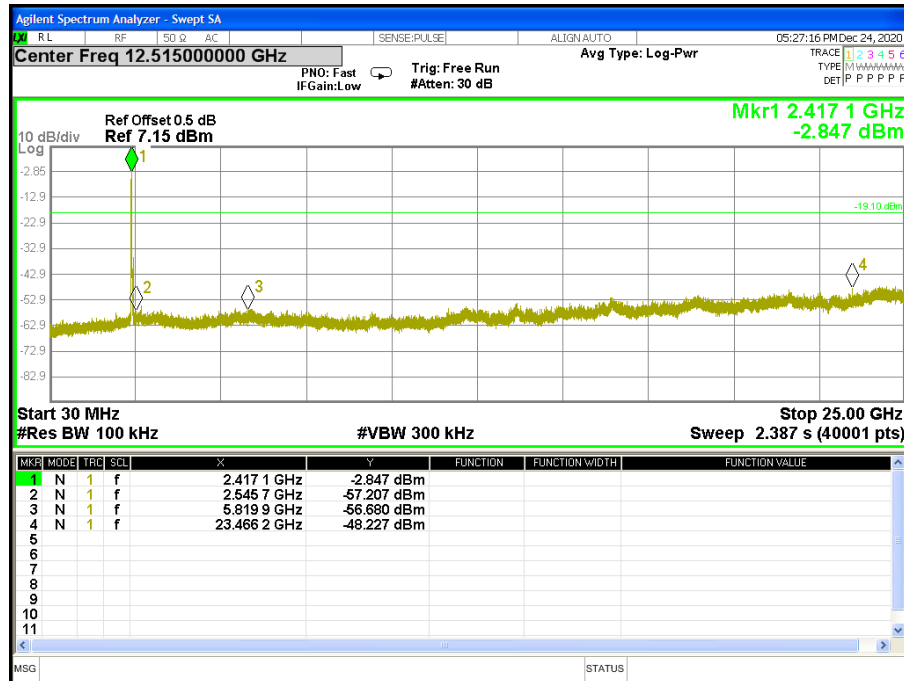
CH 11



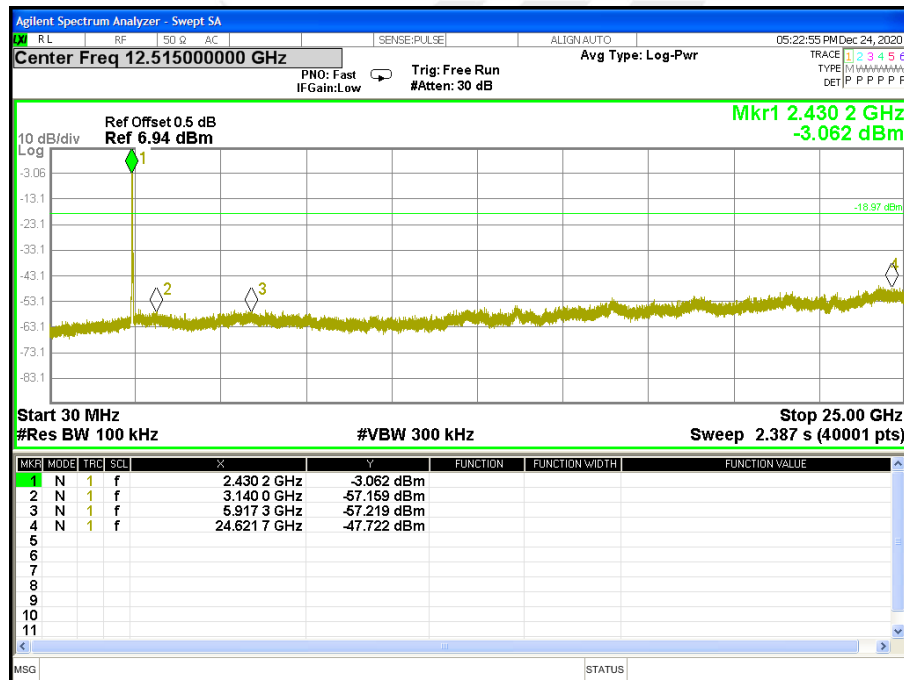


| | | | |
|---------------|---------|--------------------|-----------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX g Mode /CH01, CH06, CH11 |

CH 01

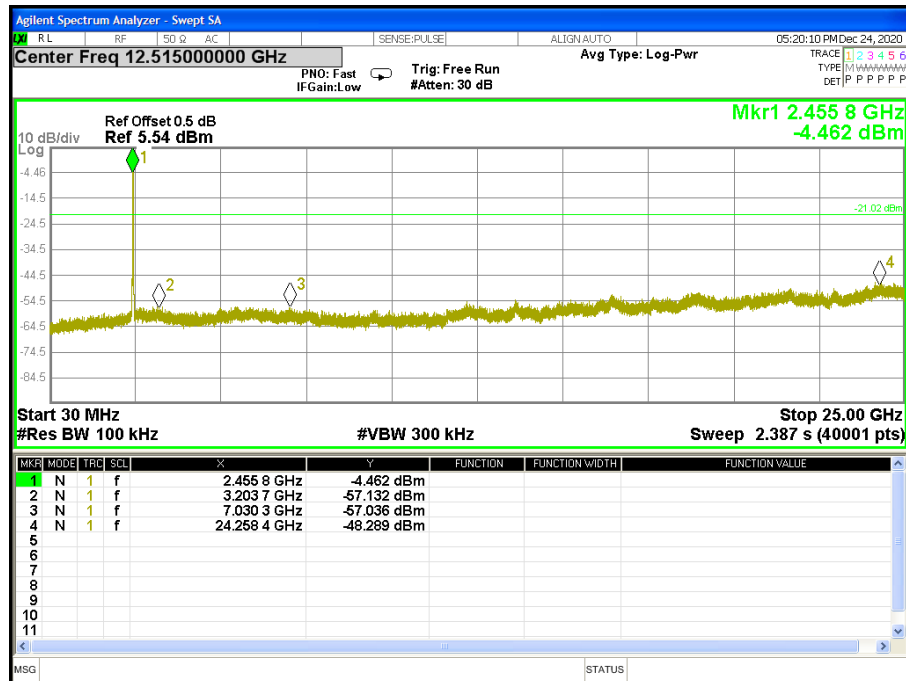


CH06





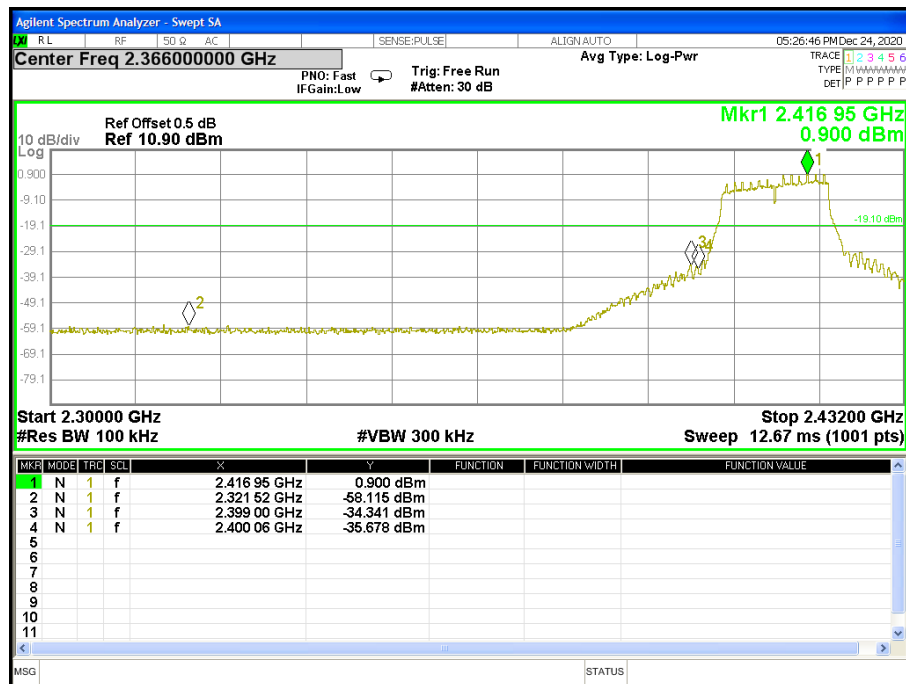
CH 11



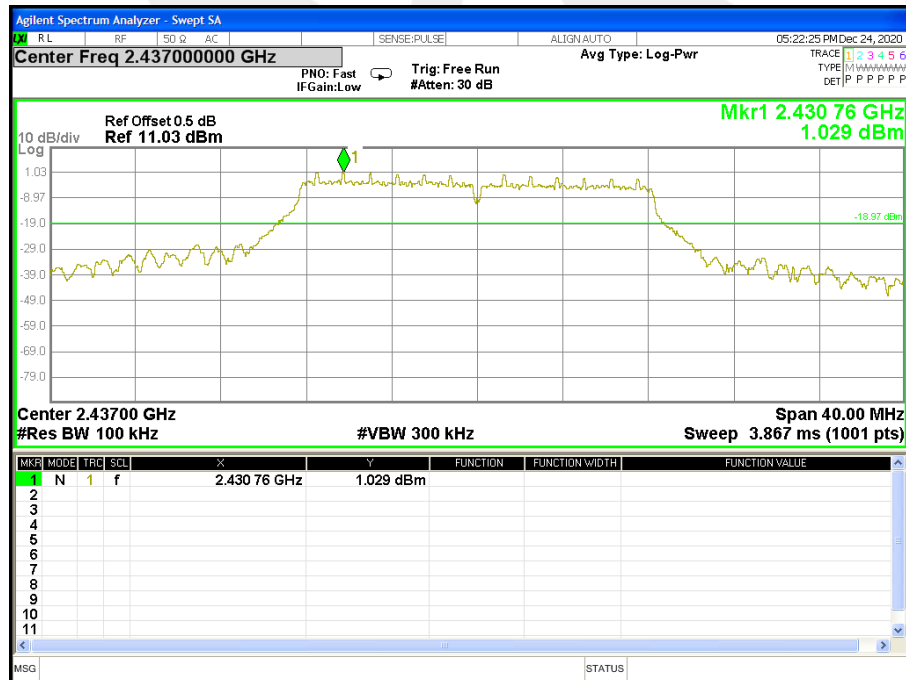


Band edge(it's also the reference level for conducted spurious emission)

CH 01

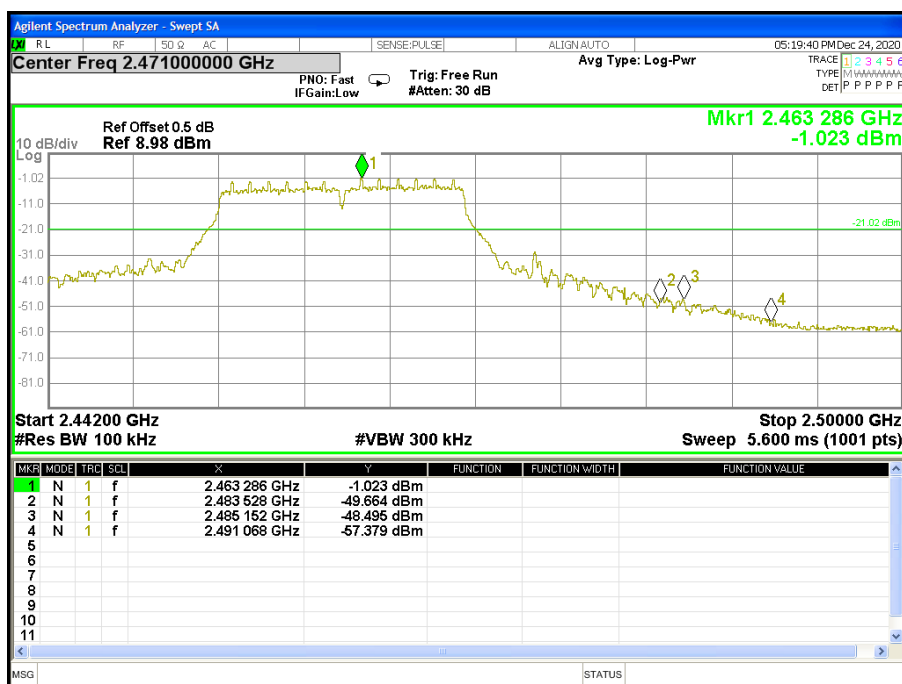


CH06





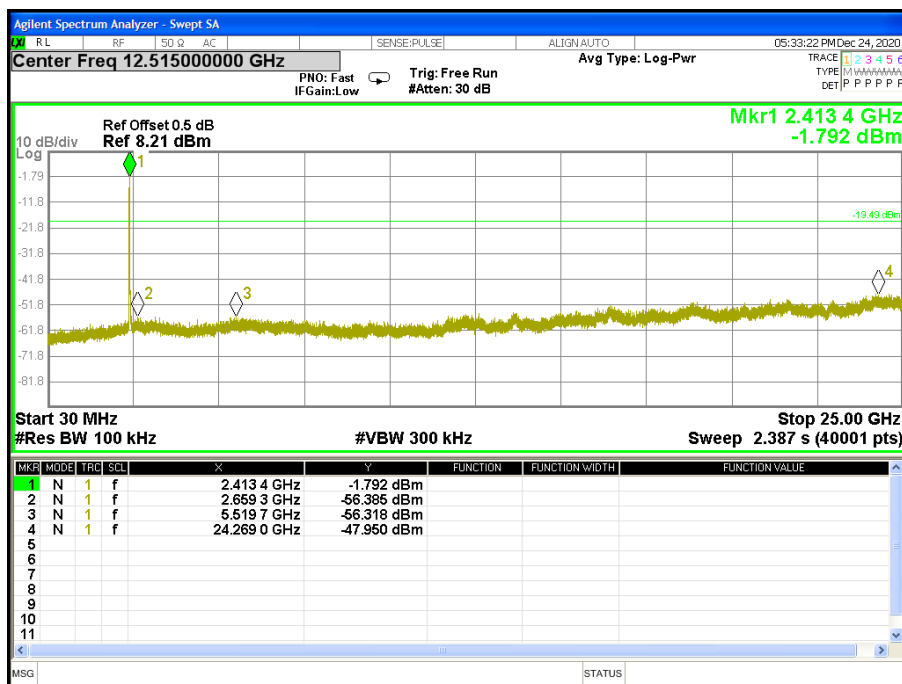
CH11



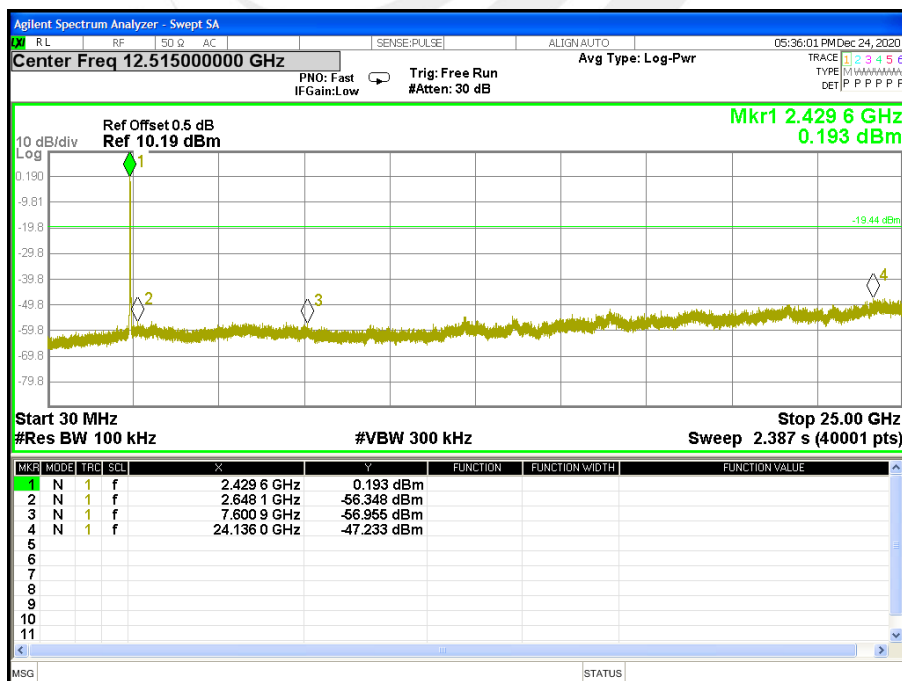


| | | | |
|---------------|---------|--------------------|----------------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX n Mode(20M) /CH01, CH06, CH11 |

CH 01

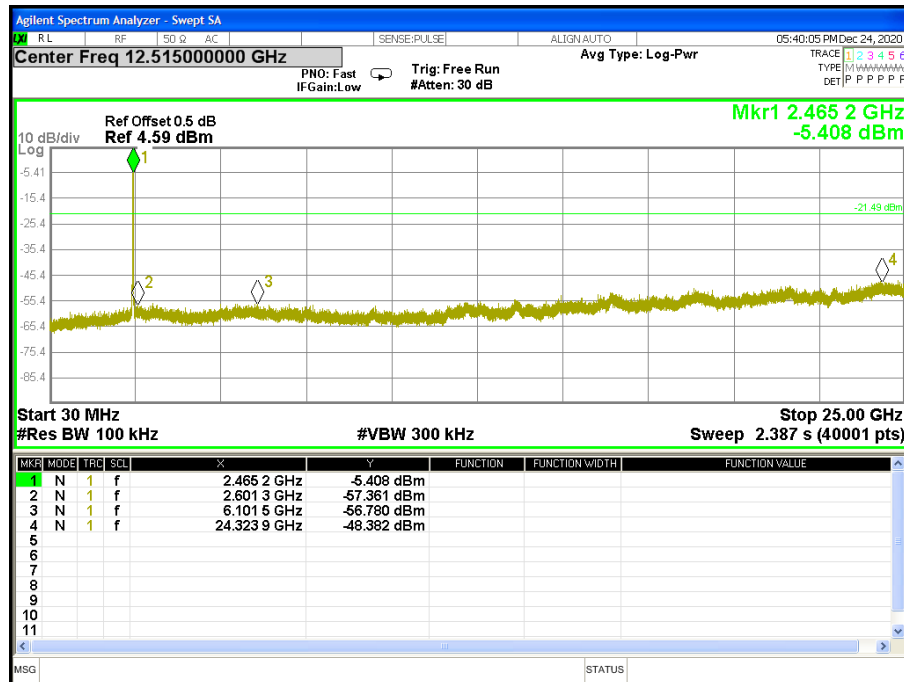


CH 06





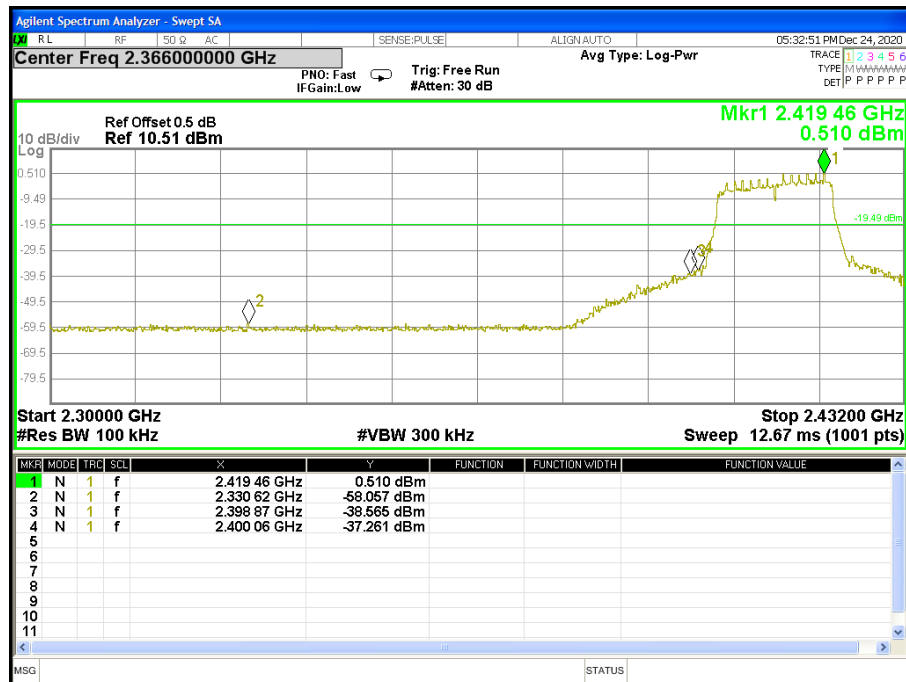
CH 11



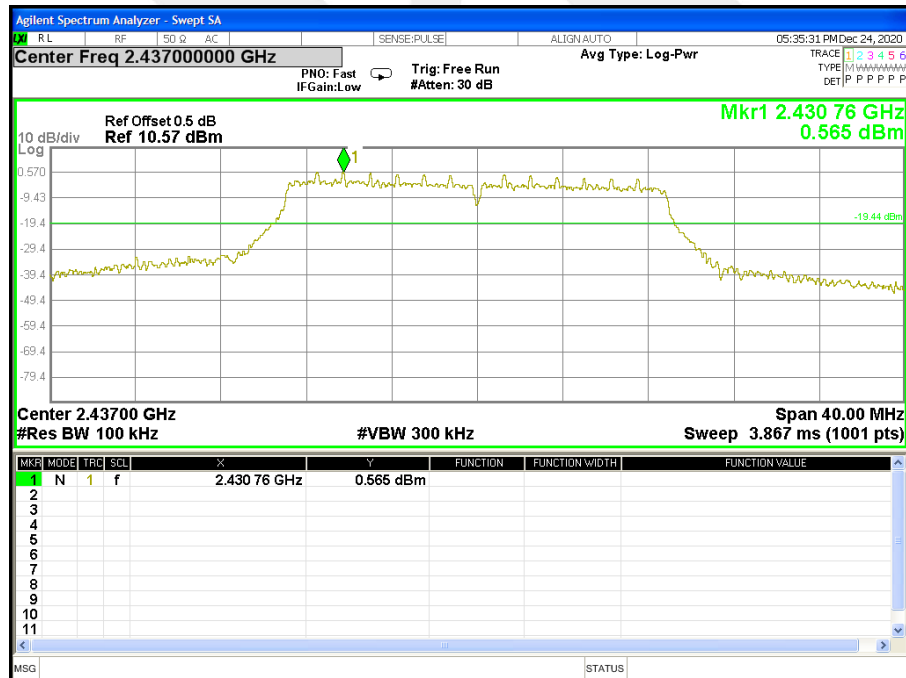


Band edge(it's also the reference level for conducted spurious emission)

CH 01

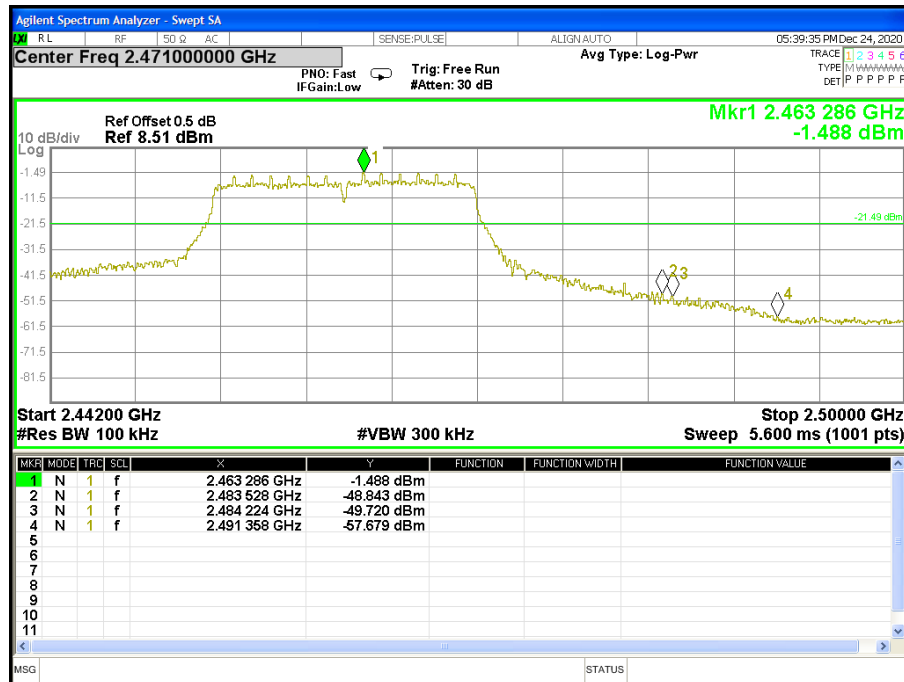


CH 06





CH 11





5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

| FCC Part15.247 , Subpart C | | | | |
|----------------------------|------------------------|------------------------------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(e) | Power Spectral Density | ≤ 8 dBm (RBW ≥ 3 KHz) | 2400-2483.5 | PASS |

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the $\text{VBW} \geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

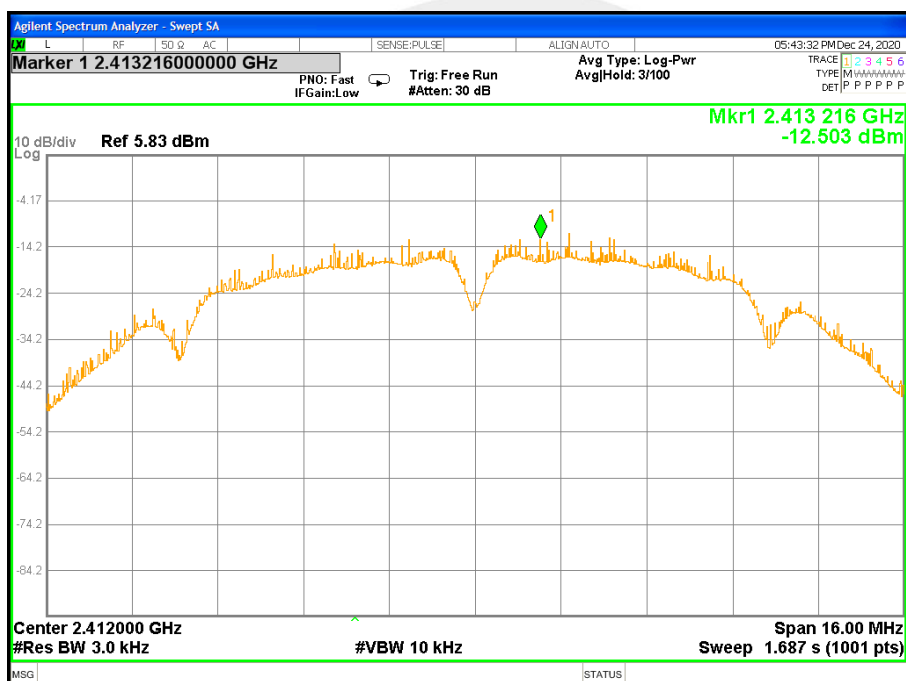


5.6 TEST RESULTS

| | | | |
|---------------|---------|--------------------|-----------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX b Mode /CH01, CH06, CH11 |

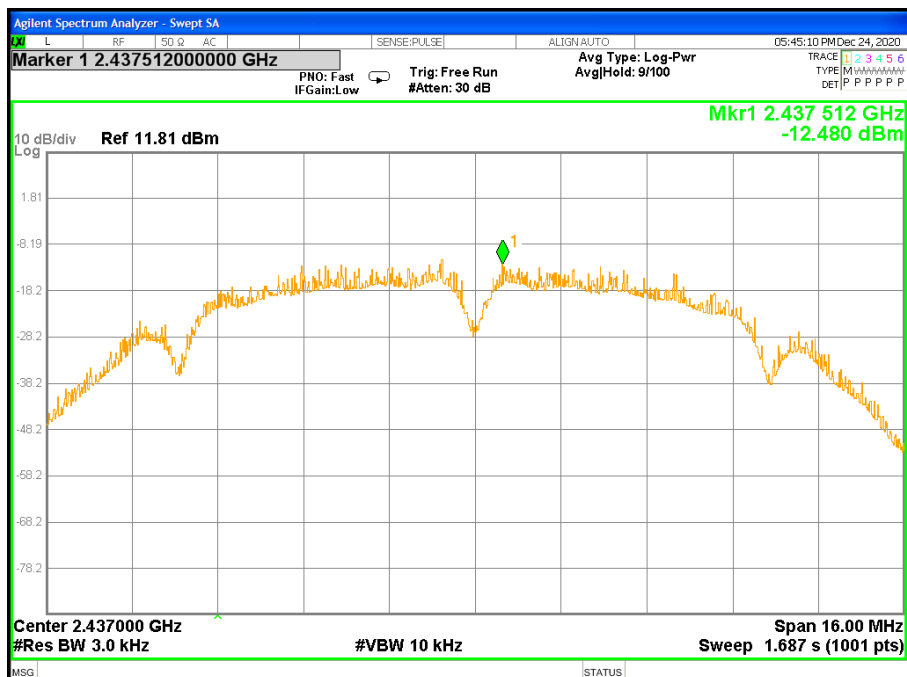
| Frequency | Power Density | Limit (dBm/3KHz) | Result |
|-----------|---------------|------------------|--------|
| | (dBm/3kHz) | | |
| 2412 MHz | -12.503 | ≤8 | PASS |
| 2437 MHz | -12.480 | ≤8 | PASS |
| 2462 MHz | -12.351 | ≤8 | PASS |

TX CH01

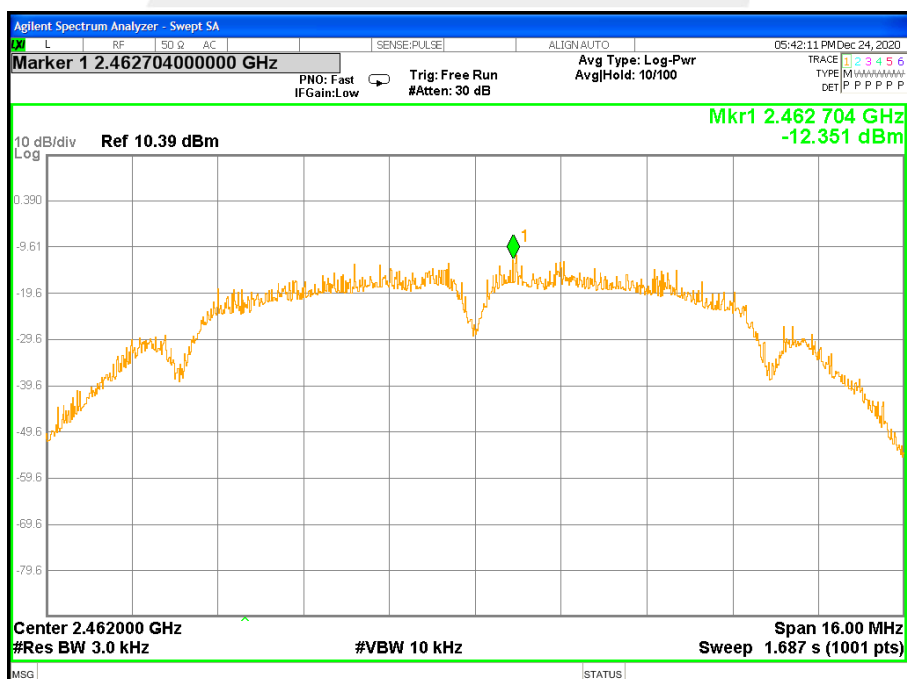




TX CH06



TX CH11

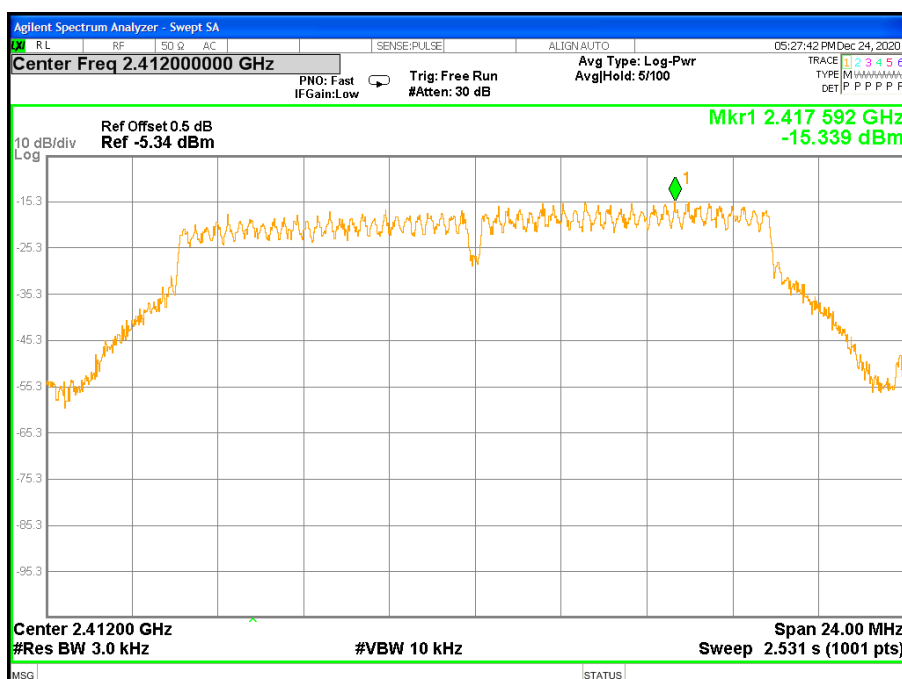




| | | | |
|---------------|---------|--------------------|-----------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX g Mode /CH01, CH06, CH11 |

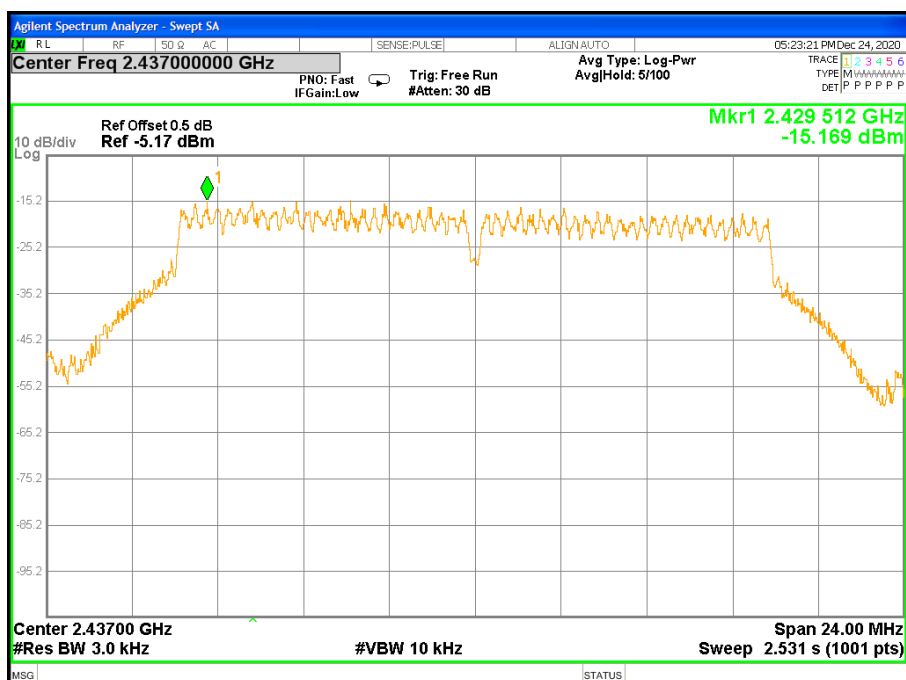
| Frequency | Power Density | Limit (dBm/3KHz) | Result |
|-----------|---------------|------------------|--------|
| | (dBm/3kHz) | | |
| 2412 MHz | -15.3390 | ≤8 | PASS |
| 2437 MHz | -15.1690 | ≤8 | PASS |
| 2462 MHz | -17.4240 | ≤8 | PASS |

TX CH01

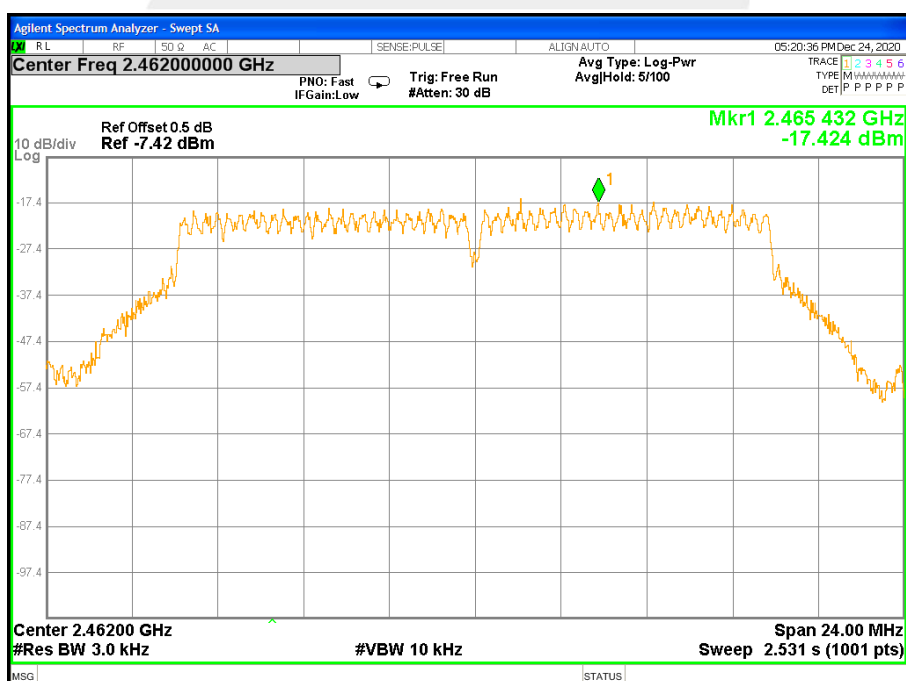




TX CH06



TX CH11

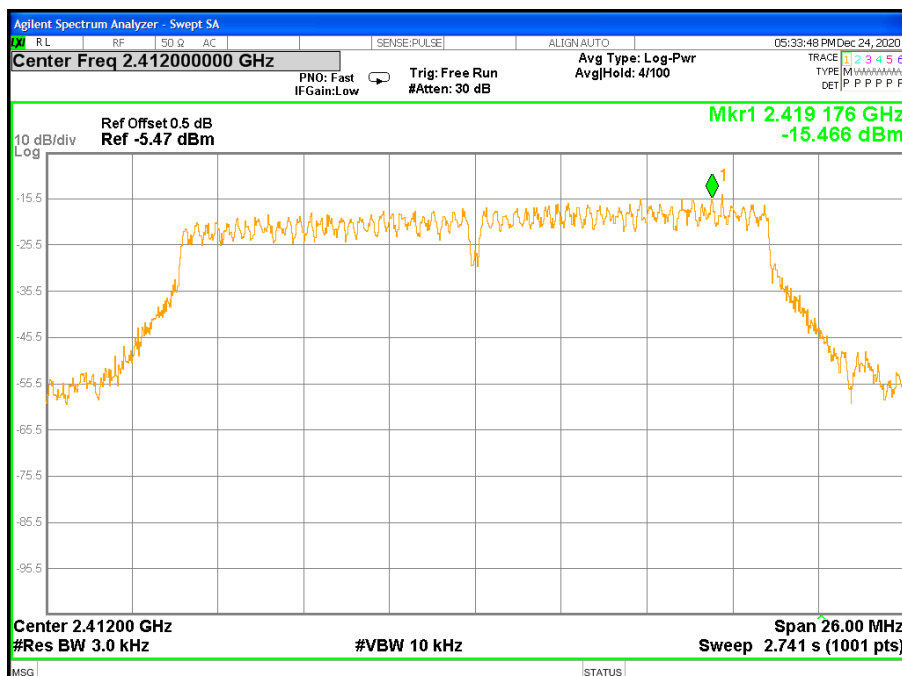




| | | | |
|---------------|---------|--------------------|----------------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX n Mode(20M) /CH01, CH06, CH11 |

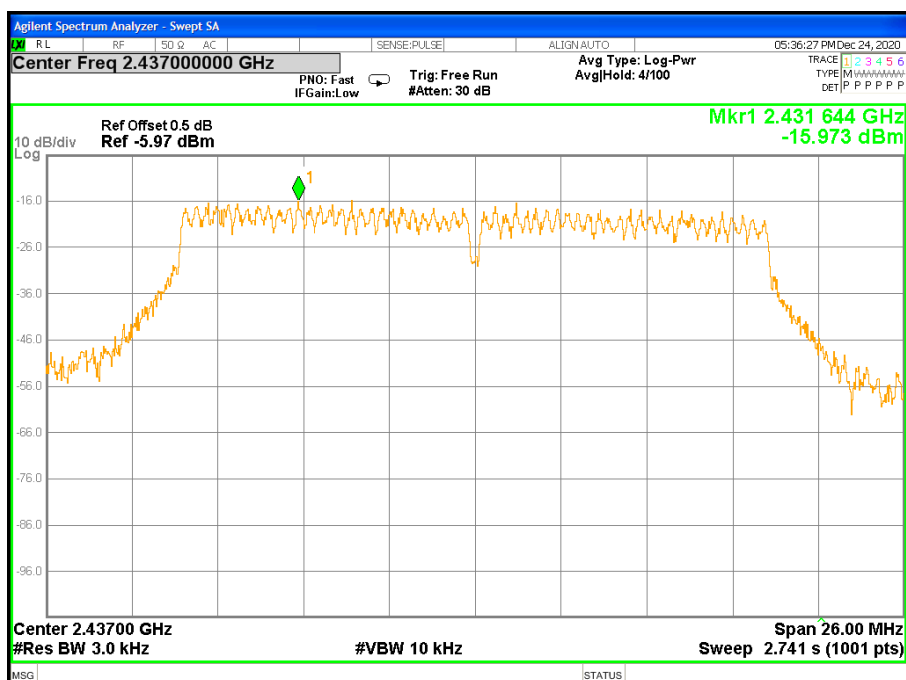
| Frequency | Power Density | Limit (dBm/3KHz) | Result |
|-----------|---------------|------------------|--------|
| | (dBm/3kHz) | | |
| 2412 MHz | -15.4660 | ≤8 | PASS |
| 2437 MHz | -15.9730 | ≤8 | PASS |
| 2462 MHz | -17.2730 | ≤8 | PASS |

TX CH01

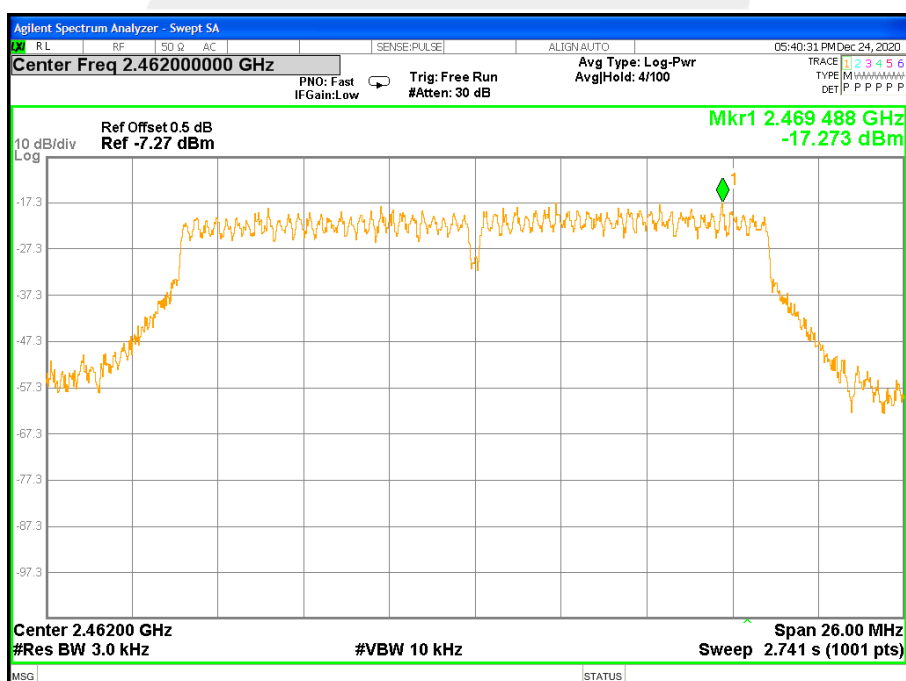




TX CH06



TX CH11





6. BANDWIDTH TEST

6.1 LIMIT

| FCC Part15.247,Subpart C | | | | |
|--------------------------|-----------|---|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(2) | Bandwidth | $\geq 500\text{KHz}$ (6dB bandwidth) | 2400-2483.5 | PASS |

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.



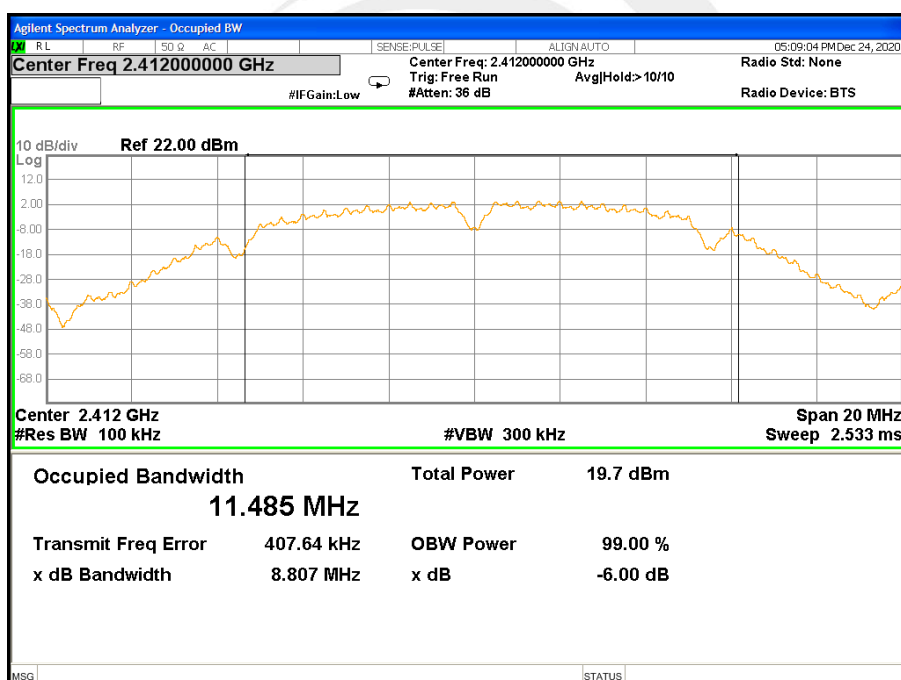
6.6 TEST RESULTS

| | | | |
|---------------|---------|--------------------|-----------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX b Mode /CH01, CH06, CH11 |

Remark: PEAK DETECTOR IS USED

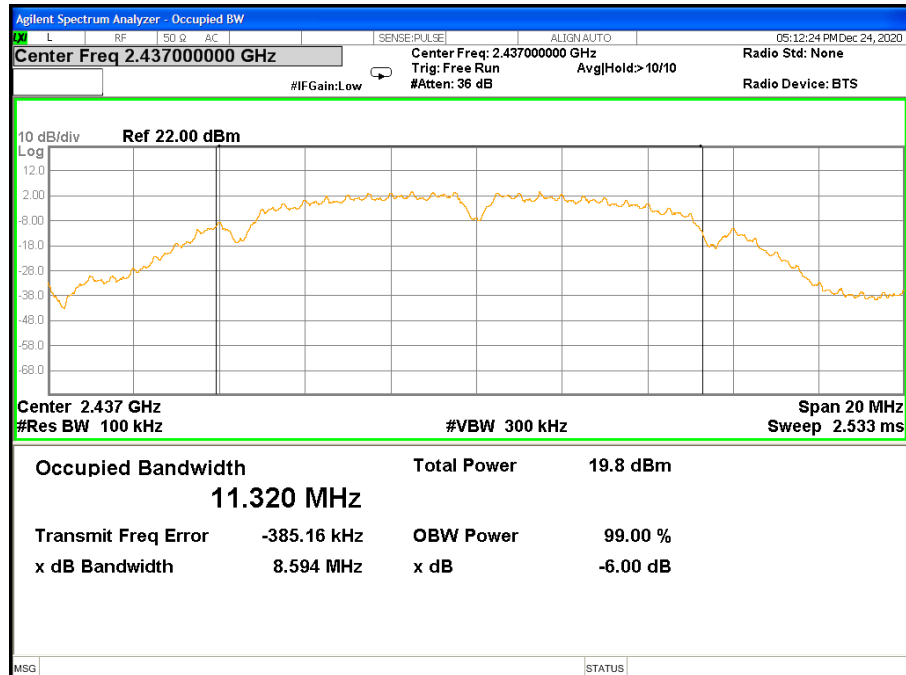
| Frequency | 6dB Bandwidth | Limit | Result |
|-----------|---------------|---------|--------|
| | (MHz) | (KHz) | |
| 2412 MHz | 8.807 | ≥500KHz | PASS |
| 2437 MHz | 8.594 | ≥500KHz | PASS |
| 2462 MHz | 8.605 | ≥500KHz | PASS |

TX CH 01

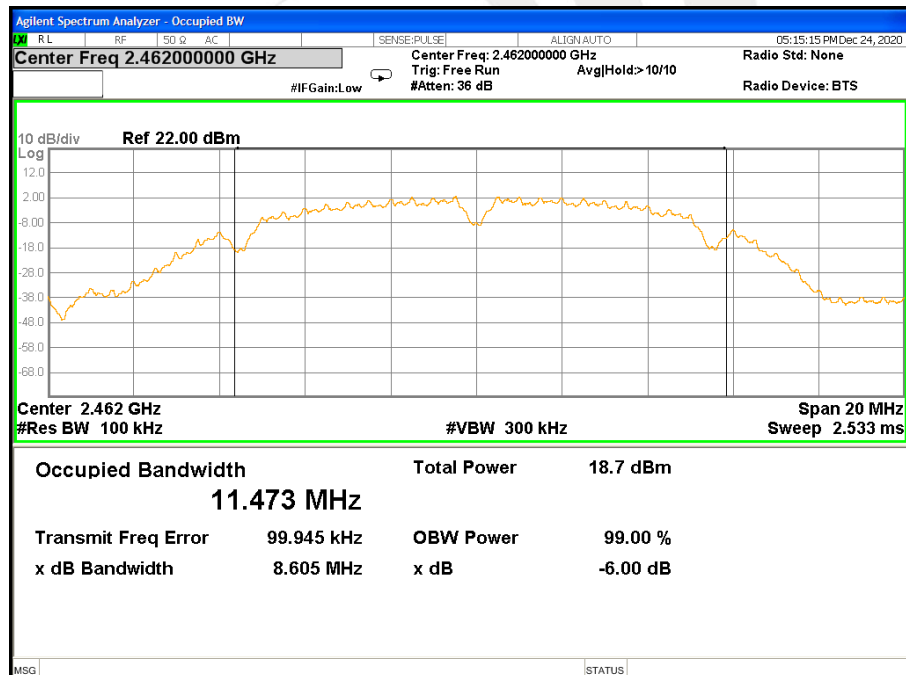




TX CH 06



TX CH 11

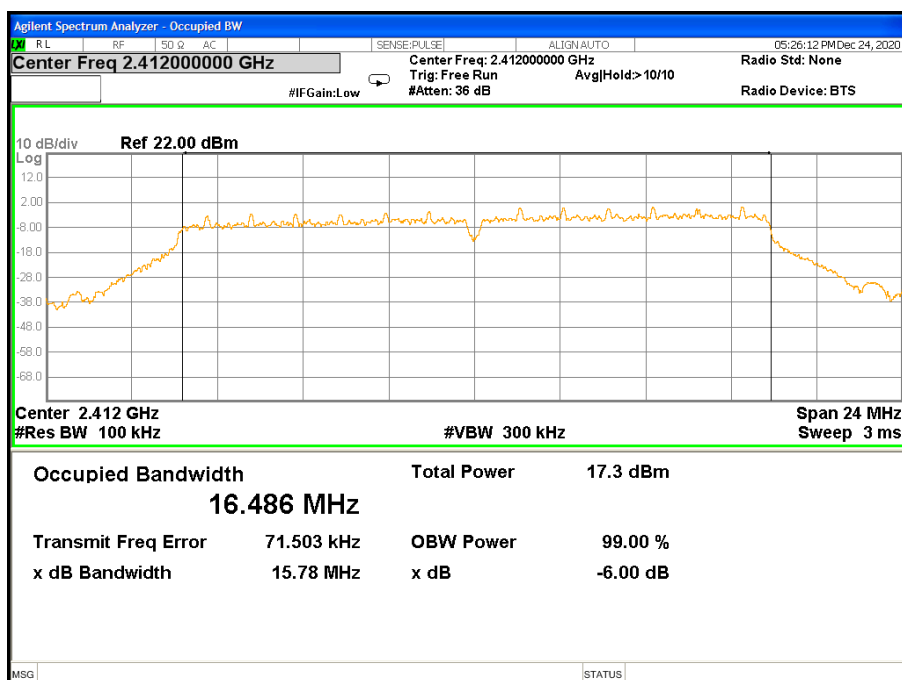




| | | | |
|---------------|---------|--------------------|-----------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX g Mode /CH01, CH06, CH11 |

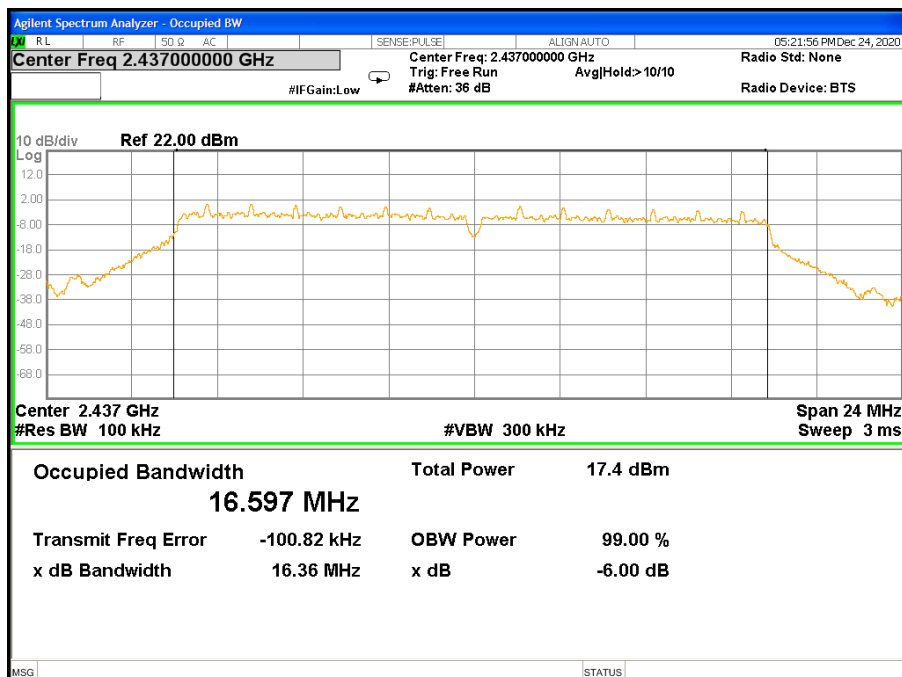
| Frequency | 6dB Bandwidth | Limit | Result |
|-----------|---------------|---------|--------|
| | (MHz) | (KHz) | |
| 2412 MHz | 15.78 | ≥500KHz | PASS |
| 2437 MHz | 16.36 | ≥500KHz | PASS |
| 2462 MHz | 16.36 | ≥500KHz | PASS |

TX CH 01

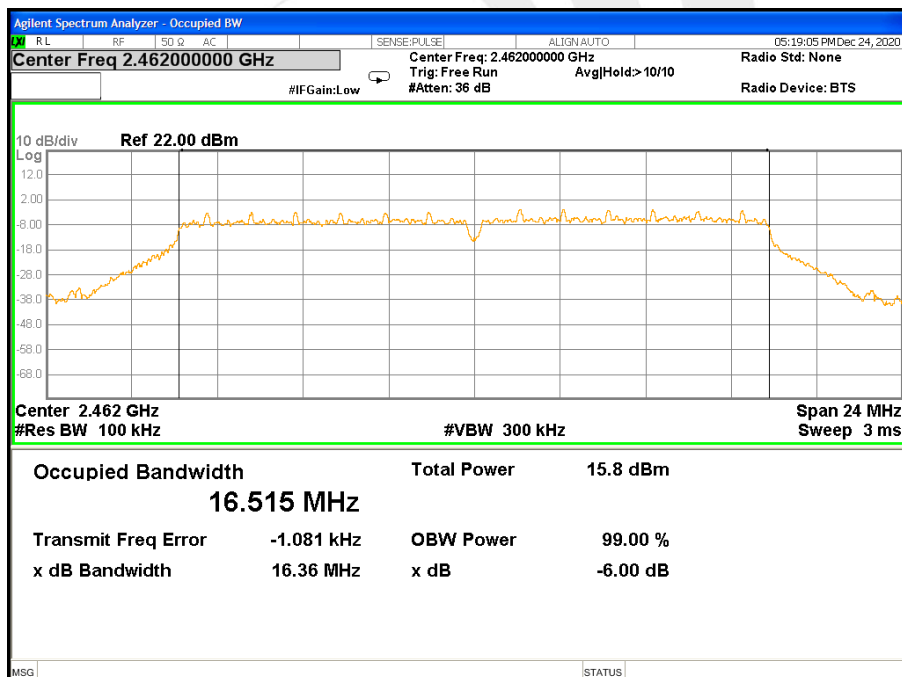




TX CH 06



TX CH 11

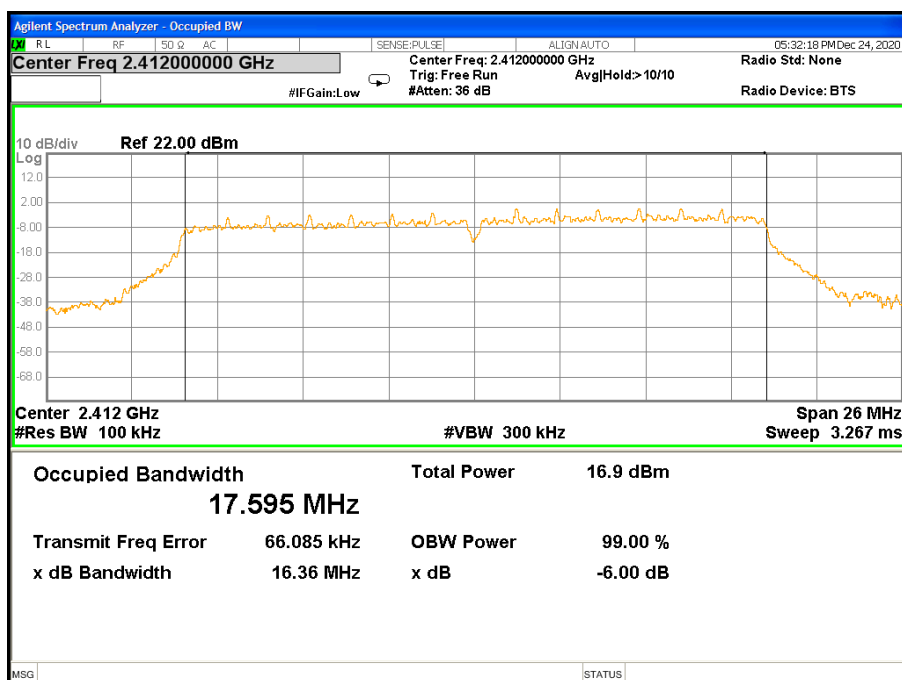




| | | | |
|---------------|---------|--------------------|----------------------------------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | Test Mode: | TX n Mode(20M) /CH01, CH06, CH11 |

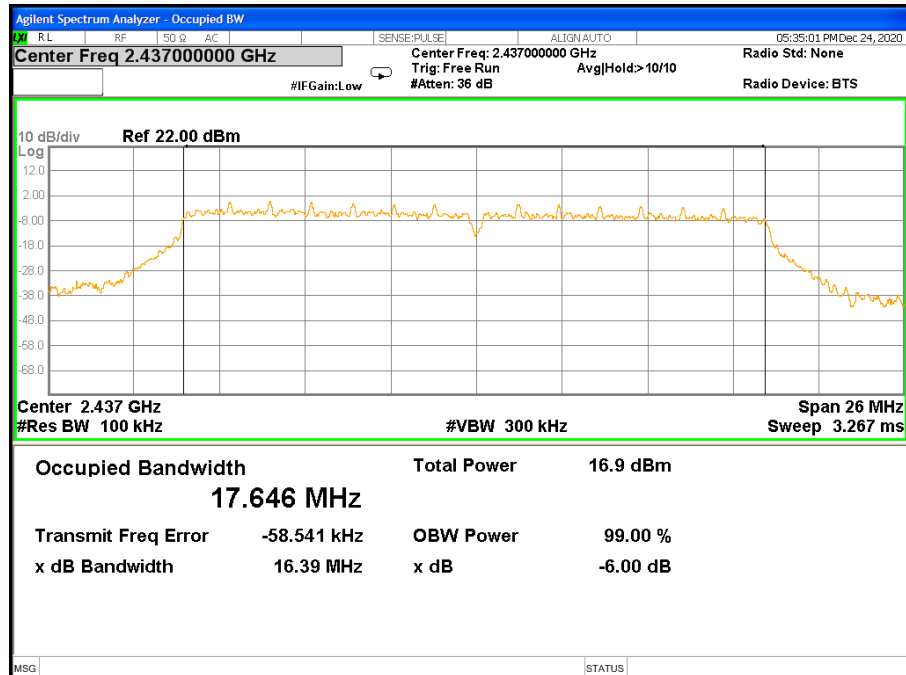
| Frequency | 6dB Bandwidth | Limit | Result |
|-----------|---------------|---------|--------|
| | (MHz) | (KHz) | |
| 2412 MHz | 16.36 | ≥500KHz | PASS |
| 2437 MHz | 16.39 | ≥500KHz | PASS |
| 2462 MHz | 17.55 | ≥500KHz | PASS |

TX CH 01

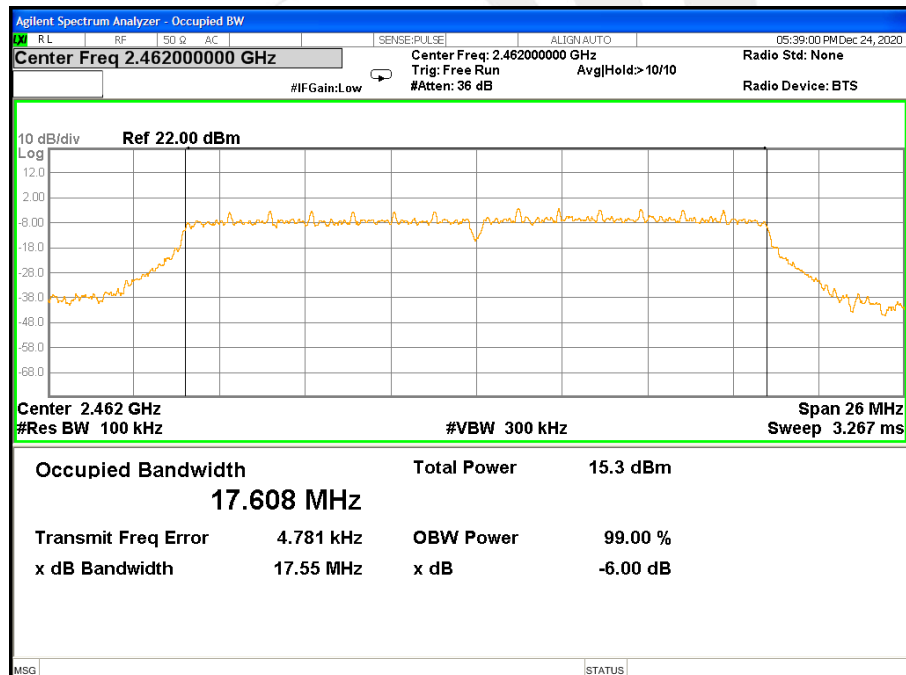




TX CH 06



TX CH 11





7. PEAK OUTPUT POWER TEST

7.1 LIMIT

| FCC Part15.247,Subpart C | | | | |
|--------------------------|--------------|-----------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(3) | Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

7.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW \geq DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW \geq DTS bandwidth.
- Set VBW \geq [3 \times RBW].
- Set span \geq [3 \times RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

- Set the RBW = 1 MHz.
- Set the VBW \geq [3 \times RBW].
- Set the span \geq [1.5 \times DTS bandwidth].
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

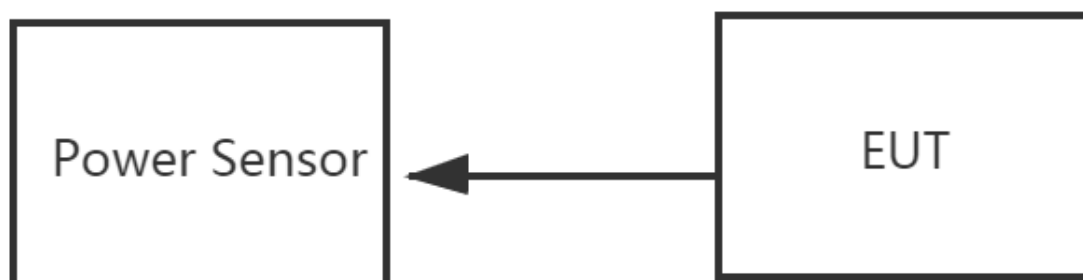
PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.





7.6 TEST RESULTS

| | | | |
|---------------|---------|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |

| Mode | Test Channel | Frequency | Peak Conducted Output Power | Average Conducted Output Power | LIMIT |
|--------------|--------------|-----------|-----------------------------|--------------------------------|-------|
| | | (MHz) | (dBm) | (dBm) | dBm |
| TX 802.11b | CH01 | 2412 | 19.89 | 10.46 | 30 |
| | CH06 | 2437 | 20.62 | 11.33 | 30 |
| | CH11 | 2462 | 18.62 | 8.98 | 30 |
| TX 802.11g | CH01 | 2412 | 19.80 | 10.45 | 30 |
| | CH06 | 2437 | 20.58 | 11.29 | 30 |
| | CH11 | 2462 | 18.57 | 8.96 | 30 |
| TX 802.11n20 | CH01 | 2412 | 19.77 | 10.42 | 30 |
| | CH06 | 2437 | 20.34 | 11.26 | 30 |
| | CH11 | 2462 | 18.36 | 8.99 | 30 |



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.





APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

