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|---|--|--|-----------------------------|----------------------|---------------------|
| Prüfbericht - Nr.: 17018981 001 | | | Seite 1 von 283 | | |
| <i>Test Report No.:</i> | | | <i>Page 1 of 283</i> | | |
| Auftraggeber: | | D-Link Corporation | | | |
| <i>Client:</i> | | No. 289, Shinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C. | | | |
| Gegenstand der Prüfung: | | Wi-Fi Invite Home Hub | | | |
| <i>Test item:</i> | | | | | |
| Bezeichnung: | RF-HTN102 | Serien-Nr.: | n.a. | | |
| <i>Identification:</i> | | <i>Serial No.:</i> | | | |
| Wareneingangs-Nr.: | 163071680 | Eingangsdatum: | 2010-12-09 | | |
| <i>Receipt No.:</i> | | <i>Date of receipt:</i> | | | |
| Prüfort: | Electronics Testing Center, Taiwan | | | | |
| <i>Testing location:</i> | No.8, Lane 29, Wenming RD., Leshan Tsuen, Guishan Shiang, Taoyuan County, Taiwan 33383 | | | | |
| | FCC Registration No.: 392735 | | | | |
| | Test site Industry Canada No.: 2949A | | | | |
| Prüfgrundlage: | FCC CFR47 Part 15: Subpart C Section 15.247 | | | | |
| <i>Test specification:</i> | FCC CFR47 Part 15: Subpart E Section 15.407 | | | | |
| | FCC CFR47 Part 15: Subpart C Section 15.207 | | | | |
| | FCC CFR47 Part 15: Subpart C Section 15.209 | | | | |
| Prüfergebnis: | Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). | | | | |
| <i>Test Result:</i> | <i>The test item passed the test specification(s).</i> | | | | |
| Prüflaboratorium: | TÜV Rheinland (Shenzhen) Co., Ltd. | | | | |
| <i>Testing Laboratory:</i> | | | | | |
| geprüft/ tested by: | | kontrolliert/ reviewed by: | | | |
|  2011-01-15 Tongle Lee/Project Engineer | |  2011-01-20 Shawn Peng/Manager | | | |
| Datum | Name/Stellung | Unterschrift | Datum | Name/Stellung | Unterschrift |
| <i>Date</i> | <i>Name/Position</i> | <i>Signature</i> | <i>Date</i> | <i>Name/Position</i> | <i>Signature</i> |
| Sonstiges/ Other Aspects: | | | | | |
| | | | | | |
| Abkürzungen: | <i>P(ass)</i> = entspricht Prüfgrundlage | Abbreviations: | <i>P(ass)</i> = passed | | |
| | <i>F(ail)</i> = entspricht nicht Prüfgrundlage | | <i>F(ail)</i> = failed | | |
| | <i>N/A</i> = nicht anwendbar | | <i>N/A</i> = not applicable | | |
| | <i>N/I/T</i> = nicht getestet | | <i>N/I/T</i> = not tested | | |
| Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. | | | | | |
| <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i> | | | | | |

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Passed***5.1.2 PEAK OUTPUT POWER***RESULT: Passed***5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Passed***5.1.4 CONDUCTED SPURIOUS EMISSIONS IN 100KHZ BANDWIDTH***RESULT: Passed***5.1.5 POWER SPECTRAL DENSITY***RESULT: Passed***5.1.6 SPURIOUS EMISSION***RESULT: Passed***5.1.7 CONDUCTED EMISSIONS***RESULT: Passed***5.2.1 ANTENNA REQUIREMENT***RESULT: Passed***5.2.2 26dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Passed***5.2.3 PEAK OUTPUT POWER***RESULT: Passed***5.2.4 POWER SPECTRAL DENSITY***RESULT: Passed***5.2.5 PEAK POWER EXCURSION***RESULT: Passed***5.2.6 RF CONDUCTED SPURIOUS EMISSIONS***RESULT: Passed***5.2.7 SPURIOUS EMISSION***RESULT: Passed*

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Electronics Testing Center, Taiwan
(FCC Registration No.: 392735 & Test Site Industry Canada No.: 2949A)

No.8, Lane 29, Wenming RD., Leshan Tsuen, Guishan Shiang, Taoyuan
County, Taiwan 33383

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Kind of Equipment | Manufacturer | Type | S/N | Calibrated until |
|--|-----------------|-----------|--------|------------------|
| Spurious Emissions and Radiated Emissions | | | | |
| EMI Test Receiver | Rohde &Schwarz | ESIB7 | | 2011-07-19 |
| Spectrum Analyzer | Rohde &Schwarz | FSU46 | | 2011-11-25 |
| Horn Antenna | EMCO | 3115 | | 2011-07-18 |
| Bilog Antenna Schaffner | Schaffner | CBL 6112B | | 2011-09-02 |
| Horn Antenna | EMCO | 3116 | | 2011-07-16 |
| Pre Amplifier | Hewlett-Packard | 8449B | | 2011-10-10 |
| Radio Frequency Test Suite | | | | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100178 | 2011-01-17 |
| Spectrum Analyzer | Agilent | E4446A | | 2011-09-26 |
| Power Meter | Agilent | N1922A | | 2011-11-01 |
| Peak Power Sensor | Agilent | N1912A | | 2011-11-01 |
| Conducted Emissions | | | | |
| Receiver | Rohde &Schwarz | ESCS30 | | 2011-09-06 |
| LISN | EMCO | 37100/2M | | 2011-03-04 |

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO/IEC 17025 are:

Table 2: Measurement Uncertainty

| Items | | Extended Uncertainty |
|--------------------|----------------------------|---|
| CE | Disturbance Voltage (dBuV) | ±2.5dB |
| RE (30-1000MHz) | Field strength (dBuV/m) | ±4.4dB |
| RE (1-18GHz) | Field strength (dBuV/m) | ±2.9dB |
| RE (18-40GHz) | Field strength (dBuV/m) | ±3.5dB |
| Bandwidth | Emission Bandwidth | 8.25 × 10 Error! Objects cannot be created from editing field codes. |
| Power Density | Power Spectral Density | ± 1.5dB |

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Electronics Testing Center, Taiwan test facility located at No. 8, Lane 29, Wenming RD., Leshan Tsuen, Guishan Shiang, Taoyuan County, Taiwan 33383, R.O.C, Taiwan is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is Wi-Fi invite home hub with 2.4G wireless technology. The RF-HTN102 is a high performance wireless router designed to easily fit into your network and provide you with an easy way to connect all your devices and enjoy multimedia and games throught your home. For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Rating of EUT

| | |
|---------------------|----------------------------|
| Kind of Equipment: | Wi-Fi Invite Home Hub |
| Type Designation: | RF-HTN102 |
| FCC ID | KA2RFHTN102A1 |
| IC ID | 4216A-RFHTN102A1 |
| Rated Input Power | DC 12V (via AC/DC adapter) |
| Rated input Current | 1.25A |

Table 4: Technical Specification

| Item | Description |
|--------------------------|---|
| Operating Frequency band | 2412 ~ 2462 MHz, 5150 ~ 5250MHz, 5725 ~ 5850MHz |
| Modulation | 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM (64QAM, QPSK, BPSK) 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Data Rate (Mbps) | 802.11b: 1, 2, 5.5, 11 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 802.11n (20MHz): 6.5, 7.22, 13, 14.44, 19.5, 21.67, 26, 28.89, 39, 43.33, 52, 57.78, 58.5, 65.0, 72.22, 78, 86.67, 104, 115.56, 117, 130, 144.44 802.11n (40MHz): 13.5, 15, 27, 30, 40.5, 45, 54, 60, 81, 90, 108, 120, 121.5, 135, 150, 162, 180, 216, 240, 243, 270, 300 |
| Output Power | 2.4GHz and 5.8GHz Band 802.11b: 16.67dBm; 802.11g: 19.96dBm 802.11n HT20: 17.79dBm; 802.11n HT40: 19.76dBm 802.11a: 23.74dBm; 802.11an HT20: 23.12dBm; 802.11an HT40: 28.07dBm 5.2GHz Band: 802.11a: 8.56dBm; 802.11an HT20: 11.33dBm; 802.11an HT40: 16.32 |
| Antenna | Integrated Antenna |

| | |
|--------------|---|
| Antenna Gain | 2.4GHz Band: 4.6dBi for Antenna 1 and Antenna 2 5.8GHz Band: 3.30dBi for Antenna 1 and 3.62dBi for Antenna 2 5.2GHz Band: 2.34dBi for Antenna 1 and 3.72dBi for Antenna 2 |
|--------------|---|

Table 5: Carrier Frequency

| Frequency Band | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|--|-------------|-----------------|-------------|-----------------|
| 2412 ~ 2462MHz (802.11b, 802.11g, 802.11n HT20) | 1 | 2412 | 7 | 2442 |
| | 2 | 2417 | 8 | 2447 |
| | 3 | 2422 | 9 | 2452 |
| | 4 | 2427 | 10 | 2457 |
| | 5 | 2432 | 11 | 2462 |
| | 6 | 2437 | -- | -- |

| Frequency Band | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|----------------------------------|-------------|-----------------|-------------|-----------------|
| 2412 ~ 2462MHz (802.11n HT40) | -- | -- | 7 | 2442 |
| | -- | -- | 8 | 2447 |
| | 3 | 2422 | 9 | 2452 |
| | 4 | 2427 | -- | -- |
| | 5 | 2432 | -- | -- |
| | 6 | 2437 | -- | -- |

| Frequency Band | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|--|-------------|-----------------|-------------|-----------------|
| 5725 ~ 5850MHz (802.11a, 802.11an HT20) | 149 | 5745 | -- | -- |
| | 153 | 5765 | -- | -- |
| | 157 | 5785 | -- | -- |
| | 161 | 5805 | -- | -- |
| | 165 | 5825 | -- | -- |

| Frequency Band | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-----------------------------------|-------------|-----------------|-------------|-----------------|
| 5725 ~ 5850MHz (802.11an HT40) | 151 | 5755 | 159 | 5795 |
| | 155 | 5775 | -- | -- |
| | -- | -- | -- | -- |

| Frequency Band | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|--|-------------|-----------------|-------------|-----------------|
| 5150 ~ 5250MHz (802.11a, 801.11an HT20) | 36 | 5180 | -- | -- |
| | 40 | 5200 | -- | -- |
| | 44 | 5220 | -- | -- |
| | 48 | 5240 | -- | -- |

| Frequency Band | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|------------------------------------|-------------|-----------------|-------------|-----------------|
| 5150 ~ 52500MHz (802.11an HT40) | 38 | 5190 | -- | -- |
| | 42 | 5210 | -- | -- |
| | -- | -- | -- | -- |

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Standby
- C. Receiving
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

During testing, test software 'Duck_1_1_8' was used for setting up different operation modes.

4.3 Special Accessories and Auxiliary Equipment

Table 6: Test Auxiliary Equipments

| Description | Manufacturer | Model | Specification |
|---------------|---|----------------|--|
| Notebook | HP | nx6320 | 3.1m*1, Unshielded Power Line / Adapter |
| Notebook | DELL | 1420 | 2.8m*1, Unshielded Power Line / Adapter |
| AC/DC adapter | GLOBAL YEOU DIANN Electric Industrial Co., Ltd. | AMS3-1201250FU | Input: 100-240V, 50/60Hz 0.5A/32VA Output: DC 12V, 1.25A |

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

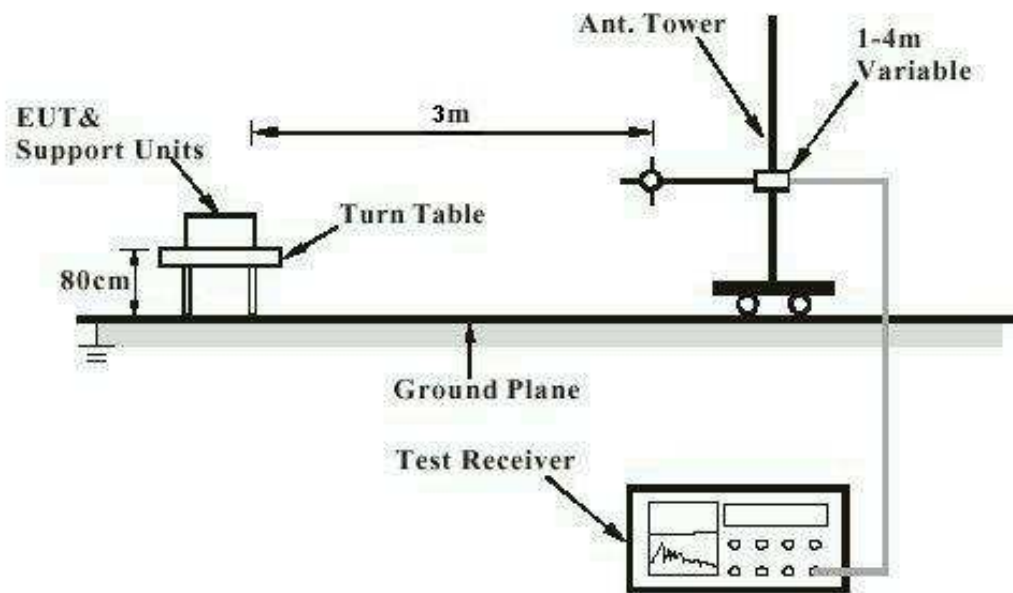


Diagram of Measurement Equipment Configuration for Conduction Measurement

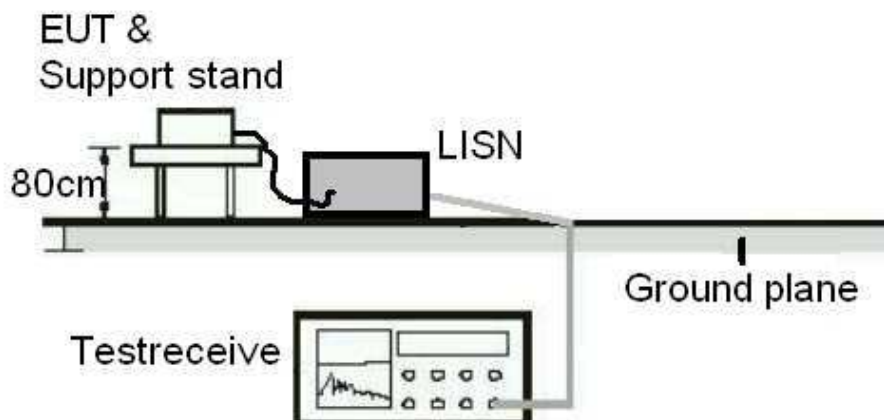
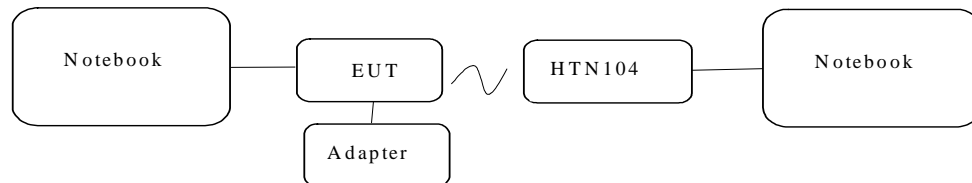


Diagram of Measurement Equipment Configuration for Transmitter Measurement


IEEE 802.11b, 802.11g, 802.11gn HT20 mode:

There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|------------|-----------------|
| Low = 1 | 2412 |
| Middle = 6 | 2437 |
| High = 11 | 2462 |

IEEE 802.11b mode: 1 Mbps data rate is the worse case for full testing.

IEEE 802.11g mode: 6 Mbps data rate is the worse case for full testing.

IEEE 802.11gn HT20 mode: MCS0 6.5 Mbps data rate is the worse case for full testing.

IEEE 802.11gn HT40 mode:

There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|------------|-----------------|
| Low = 3 | 2422 |
| Middle = 6 | 2437 |
| High = 9 | 2452 |

IEEE 802.11gn HT40 mode: MCS0 13.5 Mbps data rate is the worse case for full testing.

IEEE 802.11a, 802.11an HT20 mode:

There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|--------------|-----------------|
| Low = 149 | 5745 |
| Middle = 157 | 5785 |
| High = 165 | 5825 |

IEEE 802.11a mode: 6 Mbps data rate is the worse case for full testing.

IEEE 802.11an HT20 mode: MCS0 6.5 Mbps data rate is the worse case for full testing.

IEEE 802.11an HT40 mode:

There are two channels have been tested as following:

| Channel | Frequency (MHz) |
|------------|-----------------|
| Low = 151 | 5755 |
| High = 159 | 5795 |

IEEE 802.11an HT40 mode: MCS0 13.5 Mbps data rate is the worse case for full testing.

5. Test Results

5.1 Transmitter Requirement & Test Suites – FCC Part 15 Subpart C

5.1.1 Antenna Requirement

RESULT:
Passed

Test date : 2011-01-03 to 2011-01-10
 Test standard : FCC Part 15.247(b) and Part 15.203
 Limit : the use of antennas with directional gains that do not exceed 6 dBi, if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

The maximum gains of each type of antennas for all legacy / SISO modes test.

| Band | Ant 1 gain (dBi) | Ant 2 gain (dBi) |
|---------|------------------|------------------|
| 2.4 GHz | 2.99 | 2.75 |
| 5.8 GHz | 4.61 | 3.68 |

The antenna combinations for 2x2 (CCD) modes test:

| Frequency Band | Antennas combination | Ant 1 gain | Ant 2 gain | $10^{(Ant1/10)}$ | $10^{(Ant2/10)}$ | $10^{(Ant1/10)} + 10^{(Ant2/10)}$ | Combination Gains |
|---------------------|----------------------|------------|------------|------------------|------------------|-----------------------------------|-------------------|
| 2.4GHz HT20&HT40 | Ant1/Ant2 | 2.99 | 2.75 | 1.991 | 1.884 | 3.875 | 5.88 |
| 5.8GHz HT20&HT40 | Ant1/Ant2 | 4.61 | 3.68 | 2.891 | 2.333 | 5.224 | 7.18 |

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2010-12-29 to 2011-01-10
 Test standard : FCC Part 15.247(b)(3)
 Basic standard : ANSI C63.4: 2003
 Limit : 1 Watt
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 20°C
 Relative humidity : 56%
 Atmospheric pressure : 101.0 kPa

Table 7: Test result of Peak Output Power, 802.11b

| Channel | Channel Frequency (MHz) | Peak Output Power | | Limit (W) |
|----------------|-------------------------|-------------------|----------|-----------|
| | | (dBm) | (W) | |
| Low Channel | 2412 | 16.67 | 0.046398 | 1 |
| Middle Channel | 2437 | 16.20 | 0.041677 | 1 |
| High Channel | 2462 | 15.89 | 0.038788 | 1 |

Table 8: Test result of Peak Output Power, 802.11g

| Channel | Channel Frequency (MHz) | Peak Output Power | | | | | Limit (W) |
|----------------|-------------------------|-------------------|---------------|-------------|-------------|-------------|-----------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Chain 0 (W) | Chain 1 (W) | Total Power | |
| Low Channel | 2412 | 11.81 | 12.06 | 0.01518 | 0.01606 | 0.03124 | 1 |
| Middle Channel | 2437 | 16.78 | 17.11 | 0.04763 | 0.05144 | 0.09907 | 1 |
| High Channel | 2462 | 11.44 | 11.56 | 0.01393 | 0.01432 | 0.02825 | 1 |

Table 9: Test result of Peak Output Power, 802.11gn, HT20

| Channel | Channel Frequency (MHz) | Peak Output Power | | | | | Limit (W) |
|----------------|-------------------------|-------------------|---------------|-------------|-------------|-------------|-----------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Chain 0 (W) | Chain 1 (W) | Total Power | |
| Low Channel | 2412 | 11.34 | 10.51 | 0.01361 | 0.01124 | 0.02485 | 1 |
| Middle Channel | 2437 | 16.24 | 15.55 | 0.04304 | 0.03589 | 0.07893 | 1 |
| High Channel | 2462 | 10.88 | 11.34 | 0.01224 | 0.01361 | 0.02585 | 1 |

Table 10: Test result of Peak Output Power, 802.11gn, HT40

| Channel | Channel Frequency (MHz) | Peak Output Power | | | | | Limit (W) |
|----------------|-------------------------|-------------------|---------------|-------------|-------------|-------------|-----------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Chain 0 (W) | Chain 1 (W) | Total Power | |
| Low Channel | 2422 | 11.06 | 11.31 | 0.01276 | 0.01351 | 0.02627 | 1 |
| Middle Channel | 2437 | 16.48 | 17.01 | 0.04444 | 0.05024 | 0.09468 | 1 |
| High Channel | 2452 | 11.38 | 11.64 | 0.01374 | 0.01459 | 0.02833 | 1 |

Table 11: Test result of Peak Output Power, 802.11a

| Channel | Channel Frequency (MHz) | Peak Output Power | | | | | Limit (W) |
|----------------|-------------------------|-------------------|---------------|-------------|-------------|-------------|-----------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Chain 0 (W) | Chain 1 (W) | Total Power | |
| Low Channel | 5745 | 20.59 | 19.82 | 0.11444 | 0.09591 | 0.21035 | 1 |
| Middle Channel | 5785 | 20.67 | 20.53 | 0.11676 | 0.11301 | 0.22977 | 1 |
| High Channel | 5825 | 20.58 | 20.88 | 0.11426 | 0.12243 | 0.23669 | 1 |

Table 12: Test result of Peak Output Power, 802.11an, HT20

| Channel | Channel Frequency (MHz) | Peak Output Power | | | | | Limit (W) |
|----------------|-------------------------|-------------------|---------------|-------------|-------------|-------------|-----------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Chain 0 (W) | Chain 1 (W) | Total Power | |
| Low Channel | 5745 | 20.64 | 19.43 | 0.11588 | 0.08770 | 0.20358 | 1 |
| Middle Channel | 5785 | 20.56 | 19.61 | 0.11376 | 0.09141 | 0.20517 | 1 |
| High Channel | 5825 | 20.52 | 19.22 | 0.11272 | 0.08356 | 0.19628 | 1 |

Table 13: Test result of Peak Output Power, 802.11an, HT40

| Channel | Channel Frequency (MHz) | Peak Output Power | | | | | Limit (W) |
|--------------|-------------------------|-------------------|---------------|-------------|-------------|-------------|-----------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Chain 0 (W) | Chain 1 (W) | Total Power | |
| Low Channel | 5755 | 24.94 | 25.05 | 0.31153 | 0.31996 | 0.63149 | 1 |
| High Channel | 5795 | 24.24 | 25.76 | 0.26533 | 0.37644 | 0.64177 | 1 |

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5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:**Passed**

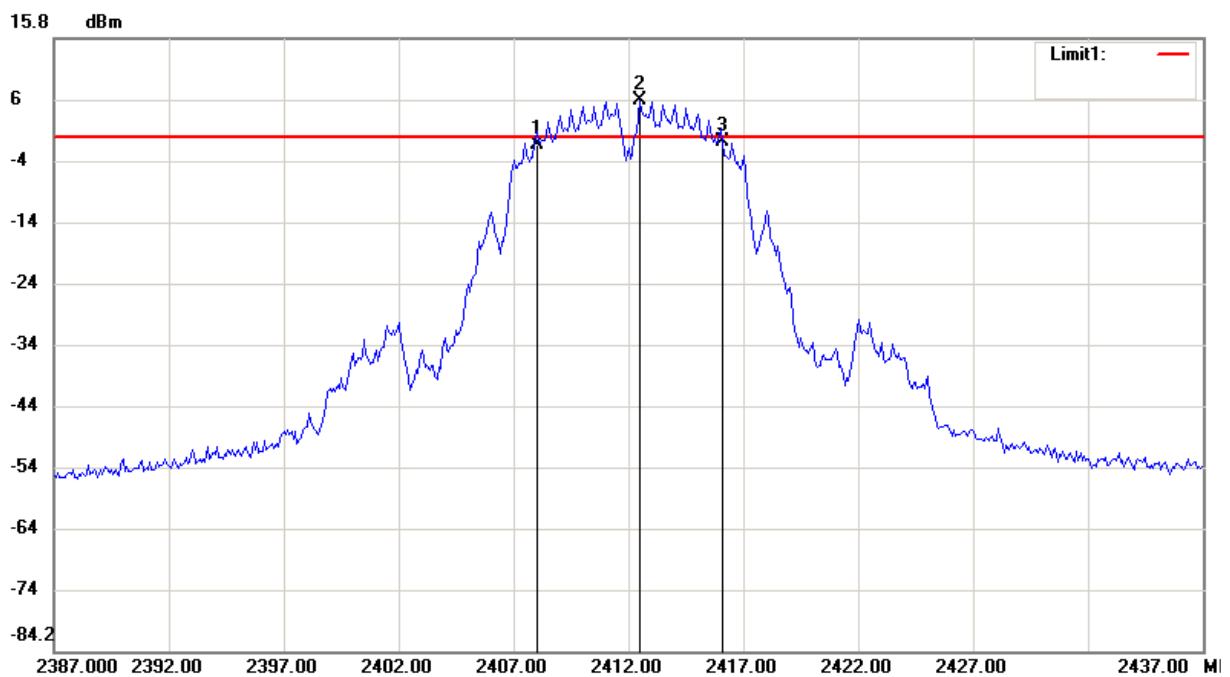
Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa

Table 14: Test result of 6dB Bandwidth & 99% Bandwidth, 802.11b

| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Bandwidth (MHz) | Limit |
|--------------|-------------------------|---------------------|---------------------|--------|
| Low Channel | 2412 | 8.167 | 9.885 | 500kHz |
| Mid Channel | 2437 | 8.167 | 10.019 | 500kHz |
| High Channel | 2462 | 8.250 | 9.824 | 500kHz |

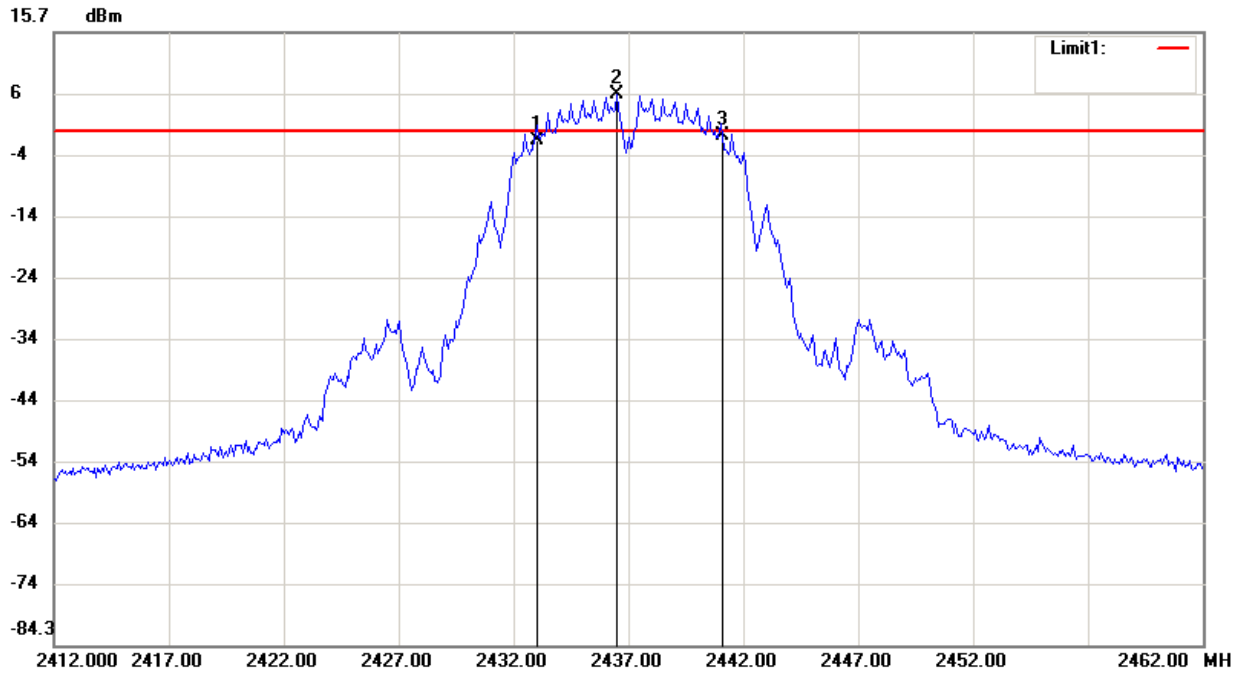


Condition: 802.11b
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11b Channel 01-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2407.91670 | -1.61 |
| 2 | 2412.50000 | 5.66 |
| 3 | 2416.08330 | -1.00 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 8.1666 | 0.61 |

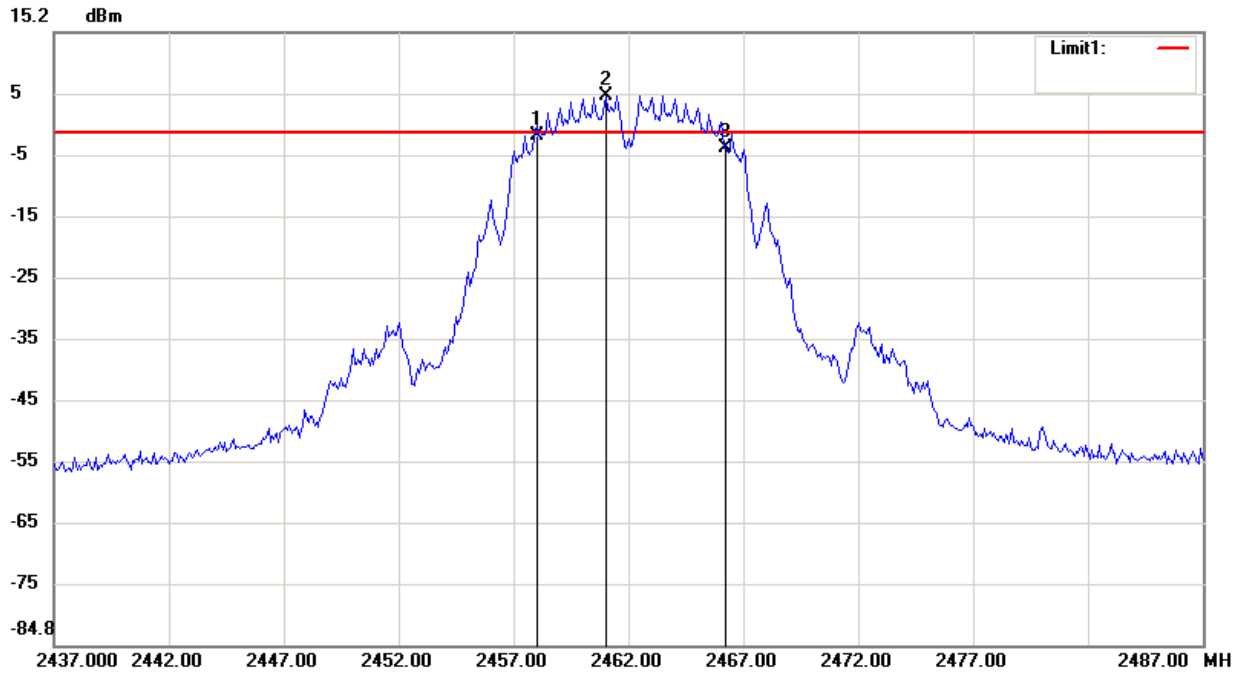


Condition: 802.11b
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11b Channel 06-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2432.91670 | -1.97 |
| 2 | 2436.50000 | 5.63 |
| 3 | 2441.08330 | -1.20 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 8.1666 | 0.77 |

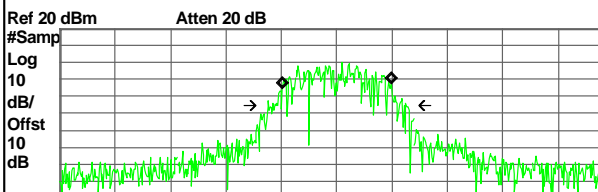


Condition: 802.11b
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11b Channel 11-6dB EBW

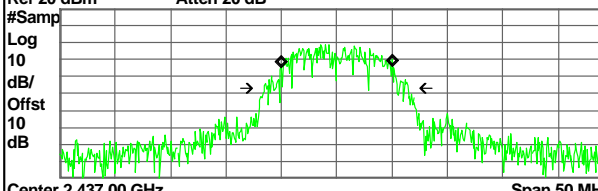
RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2457.91670 | -1.79 |
| 2 | 2461.00000 | 4.83 |
| 3 | 2466.16670 | -3.78 |

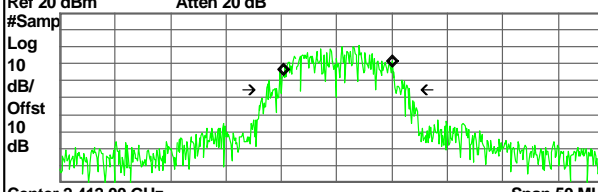
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 8.25 | -1.99 |

| | | | | |
|--------------------|---|-------------|----------------------|---------------------|
| * Agilent | | R | T | Measure |
| Ch Freq 2.462 GHz | | Trig Free | | Meas Off |
| Occupied Bandwidth | | | | Channel Power |
| Ref 20 dBm | | Atten 20 dB | | Occupied BW |
| #Samp |  | | | ACP |
| Log | Center 2.462 00 GHz | | | Multi Carrier Power |
| dB/ | Span 50 MHz | | | Power Stat |
| Offst | #Res BW 180 kHz #VBW 300 kHz Sweep 5.04 ms (601 pts) | | | CCDF |
| dB | Occupied Bandwidth | | Occ BW % Pwr 99.00 % | More |
| | 9.8240 MHz | | x dB -26.00 dB | 1 of 2 |
| | Transmit Freq Error -5.932 kHz | | | |
| | x dB Bandwidth 12.569 MHz* | | | |

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| | | | | |
|--------------------|---|-------------|----------------------|---------------------|
| * Agilent | | R | T | Measure |
| Ch Freq 2.437 GHz | | Trig Free | | Meas Off |
| Occupied Bandwidth | | | | Channel Power |
| Ref 20 dBm | | Atten 20 dB | | Occupied BW |
| #Samp |  | | | ACP |
| Log | Center 2.437 00 GHz | | | Multi Carrier Power |
| dB/ | Span 50 MHz | | | Power Stat |
| Offst | #Res BW 180 kHz #VBW 300 kHz Sweep 5.04 ms (601 pts) | | | CCDF |
| dB | Occupied Bandwidth | | Occ BW % Pwr 99.00 % | More |
| | 10.0191 MHz | | x dB -26.00 dB | 1 of 2 |
| | Transmit Freq Error 18.968 kHz | | | |
| | x dB Bandwidth 12.988 MHz* | | | |

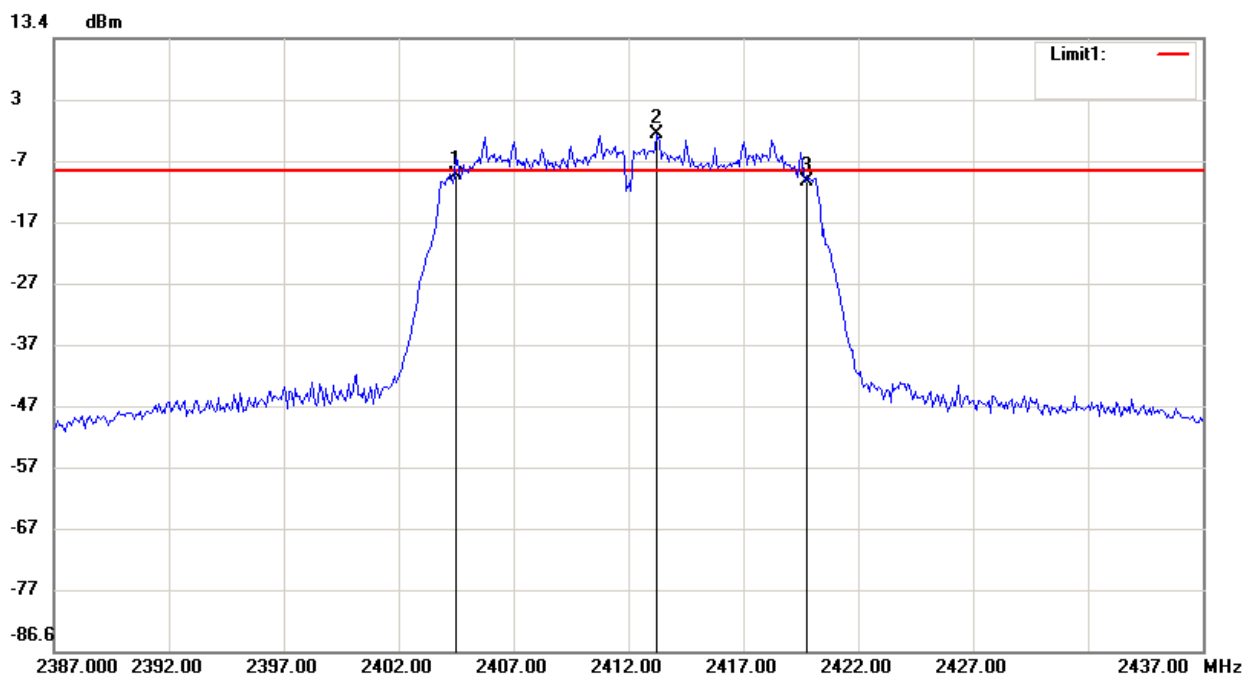
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| | | | | |
|--------------------|---|-------------|----------------------|---------------------|
| * Agilent | | R | T | Measure |
| Ch Freq 2.412 GHz | | Trig Free | | Meas Off |
| Occupied Bandwidth | | | | Channel Power |
| Ref 20 dBm | | Atten 20 dB | | Occupied BW |
| #Samp |  | | | ACP |
| Log | Center 2.412 00 GHz | | | Multi Carrier Power |
| dB/ | Span 50 MHz | | | Power Stat |
| Offst | #Res BW 180 kHz #VBW 300 kHz Sweep 5.04 ms (601 pts) | | | CCDF |
| dB | Occupied Bandwidth | | Occ BW % Pwr 99.00 % | More |
| | 9.8852 MHz | | x dB -26.00 dB | 1 of 2 |
| | Transmit Freq Error 88.663 kHz | | | |
| | x dB Bandwidth 12.945 MHz* | | | |

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Table 15: Test result of 6dB Bandwidth & 99% Bandwidth, 802.11g

| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|---------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 2412 | 15.250 | 15.250 | 16.409 | 16.405 | 500kHz |
| Mid Channel | 2437 | 15.333 | 15.333 | 16.353 | 16.105 | 500kHz |
| High Channel | 2462 | 15.333 | 15.333 | 16.398 | 16.273 | 500kHz |

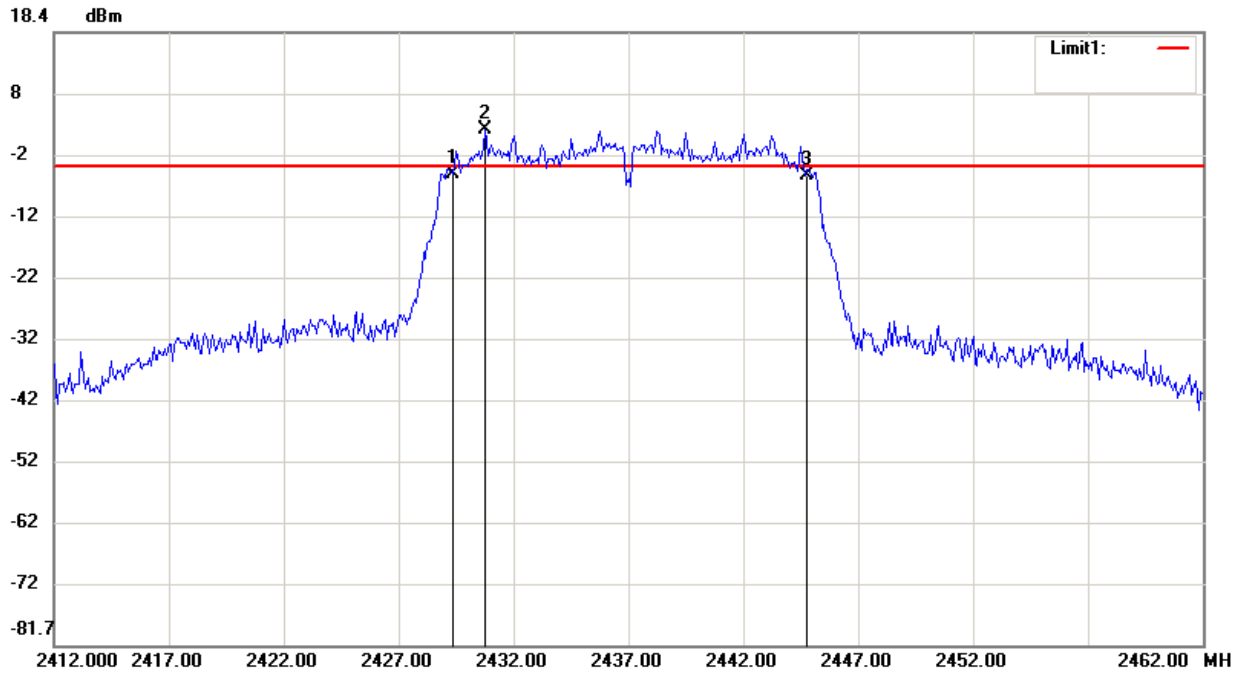


Condition: Chain 0
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11g Channel 01-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2404.41670 | -9.04 |
| 2 | 2413.25000 | -2.33 |
| 3 | 2419.66670 | -9.95 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.25 | -0.91 |

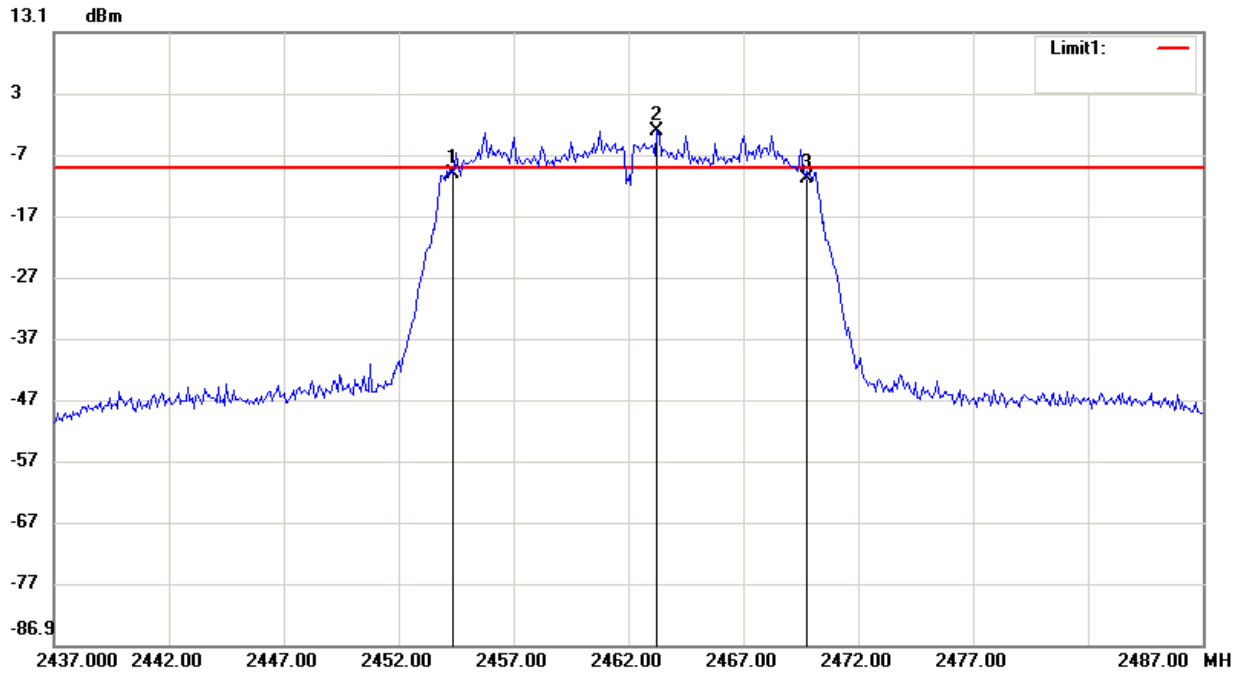


Condition: Chain 0
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11g Channel 06-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2429.33330 | -4.89 |
| 2 | 2430.75000 | 2.51 |
| 3 | 2444.66670 | -4.95 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.3334 | -0.06 |

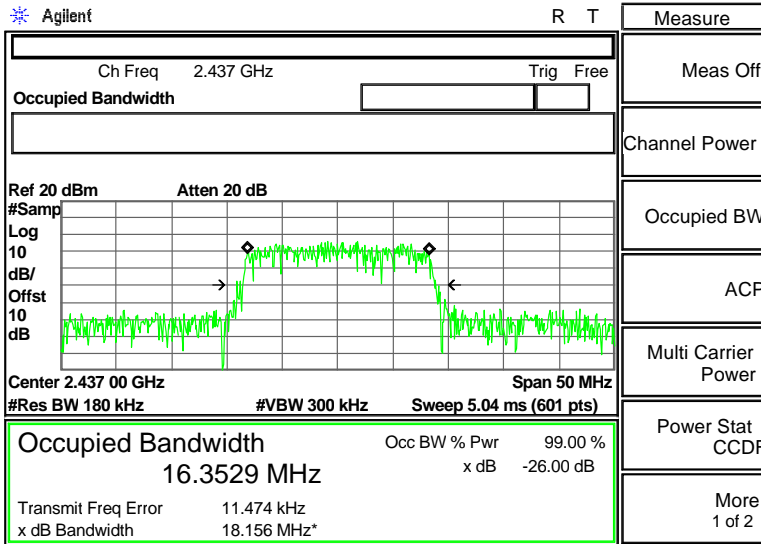


Condition: Chain 0
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11g Channel 11-6dB EBW

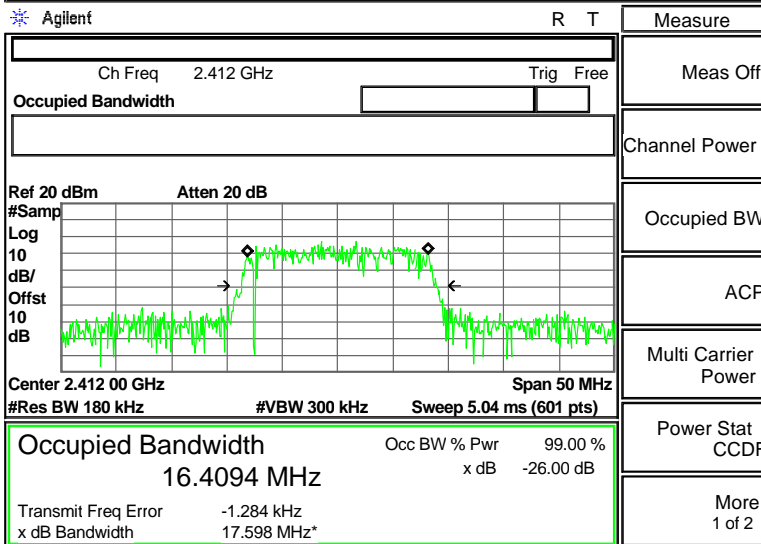
RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2454.33330 | -9.93 |
| 2 | 2463.25000 | -2.86 |
| 3 | 2469.66670 | -10.70 |

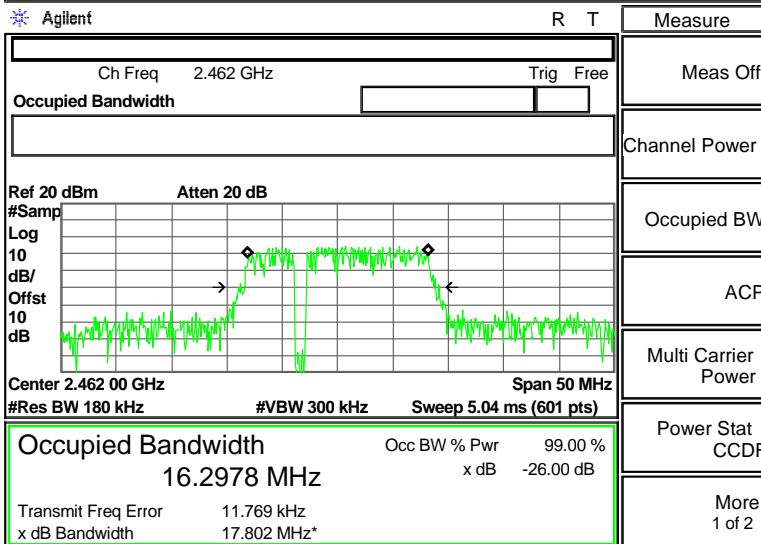
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.3334 | -0.77 |



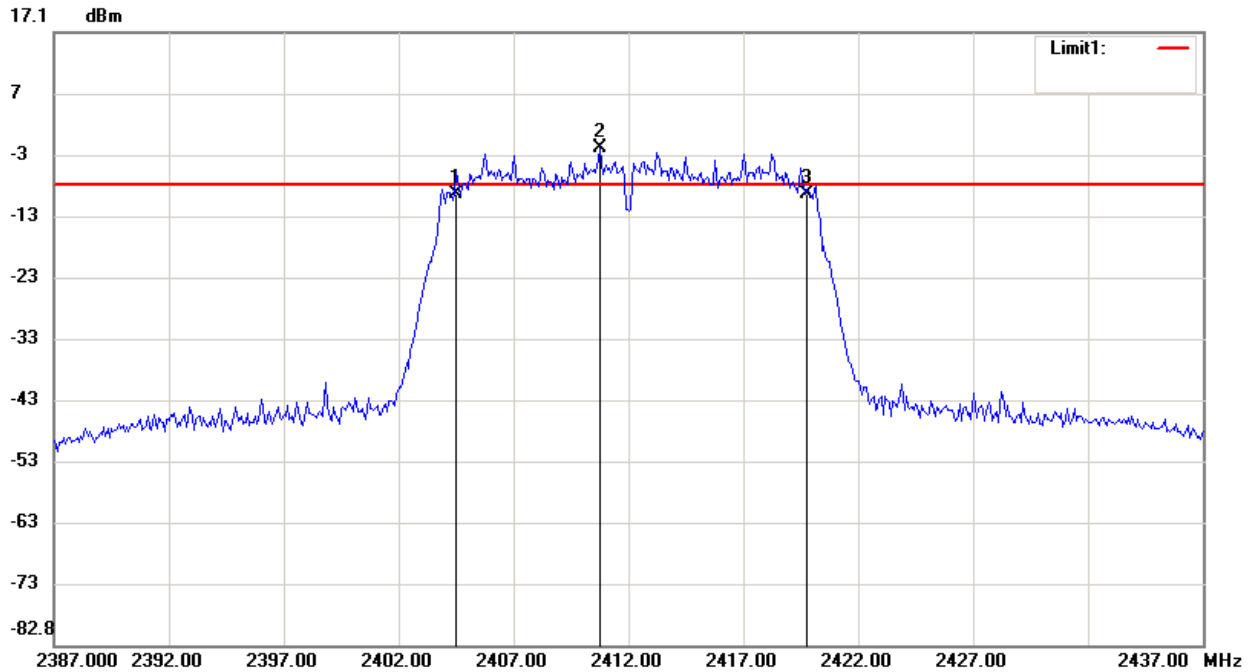
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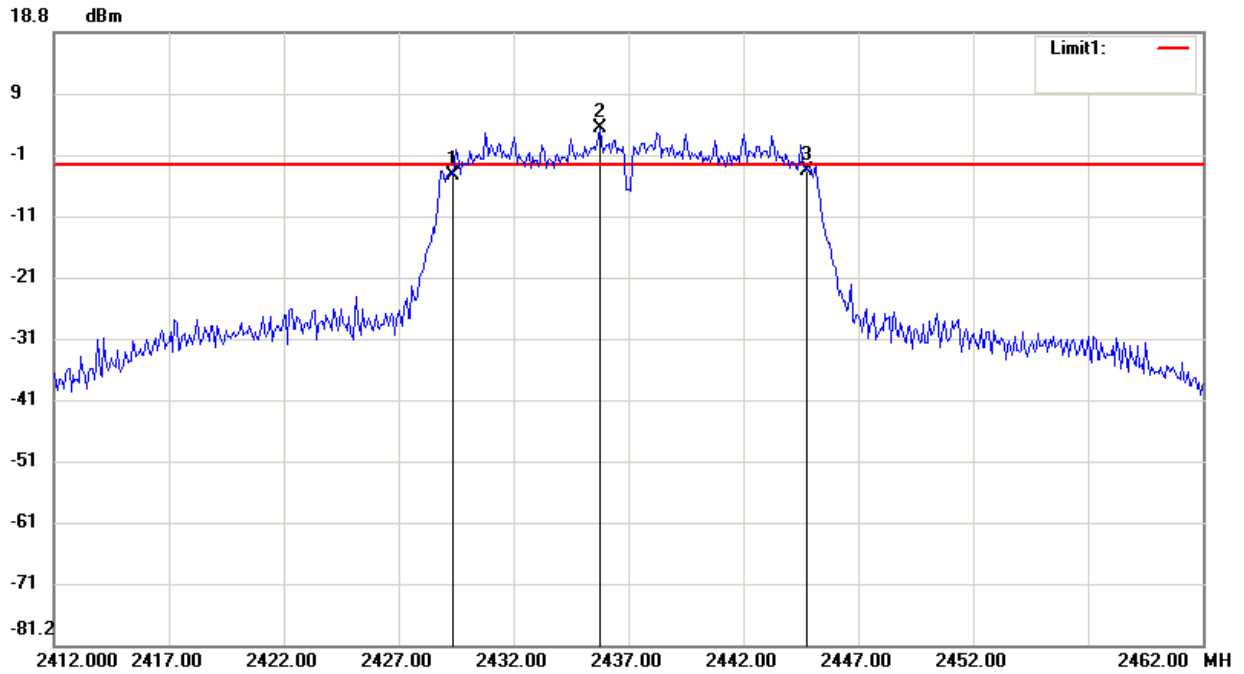


Condition: Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11g Channel 01-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2404.41670 | -9.20 |
| 2 | 2410.75000 | -1.76 |
| 3 | 2419.66670 | -9.16 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.25 | 0.04 |

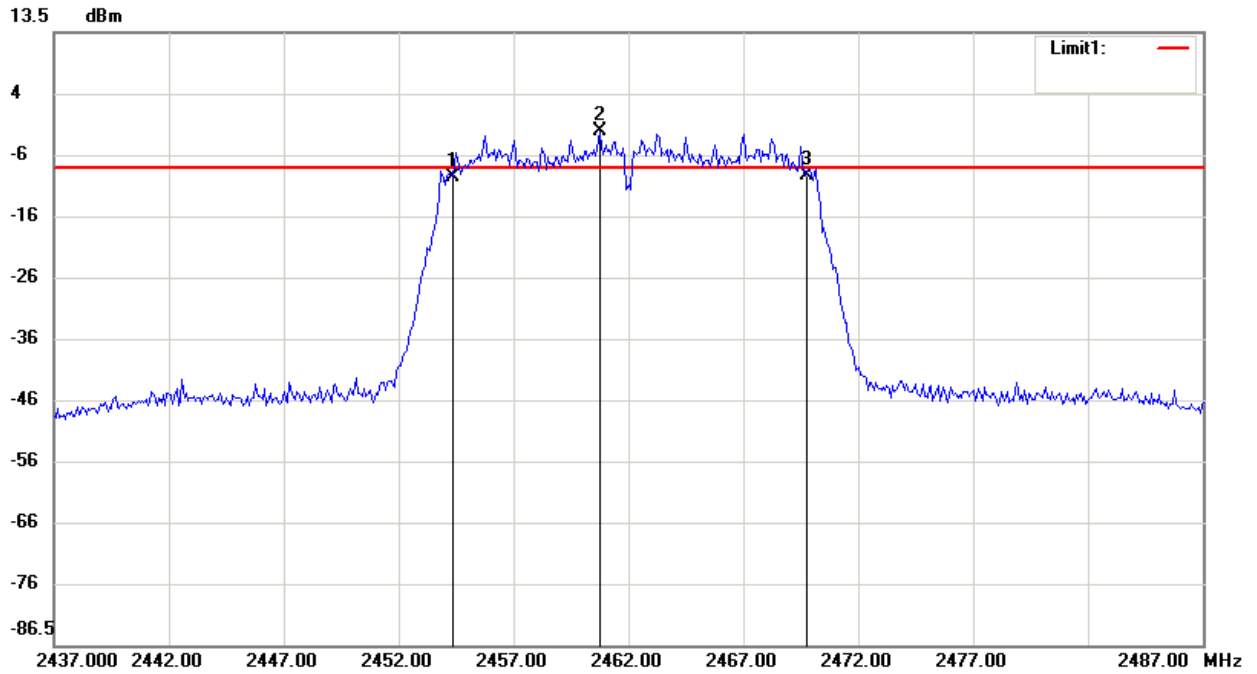


Condition: Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11g Channel 06-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2429.33330 | -4.62 |
| 2 | 2435.75000 | 3.02 |
| 3 | 2444.66670 | -3.96 |

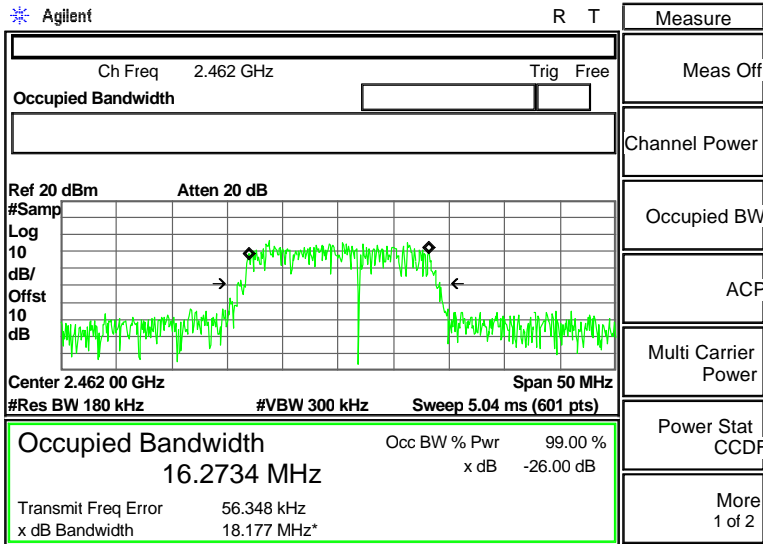
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.3334 | 0.66 |



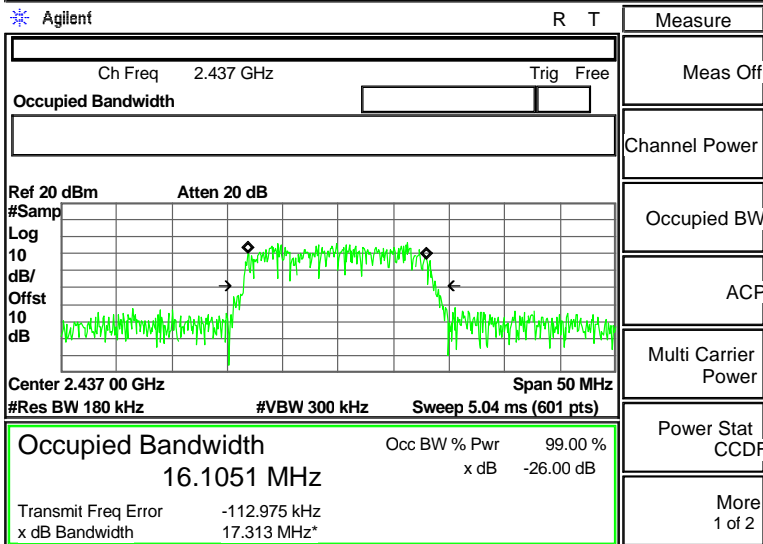
| | | |
|-------------------|--------------------------------|--|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 11-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2454.33330 | -10.18 |
| 2 | 2460.75000 | -2.71 |
| 3 | 2469.66670 | -9.95 |

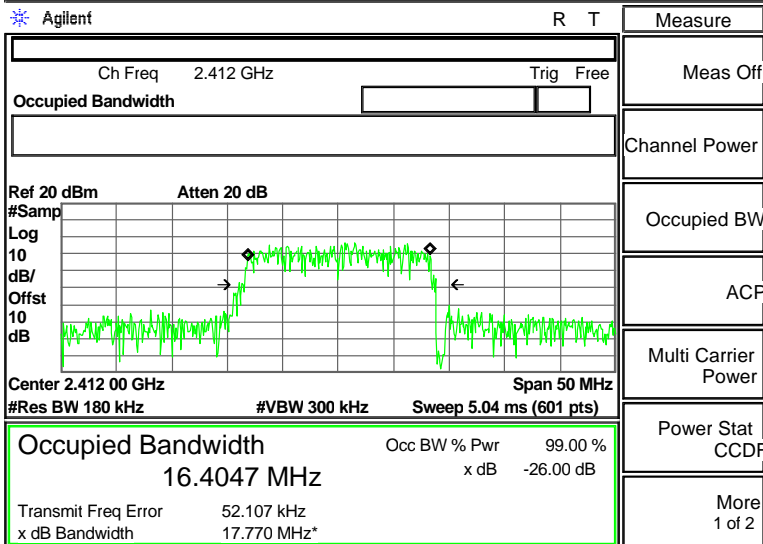
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.3334 | 0.23 |



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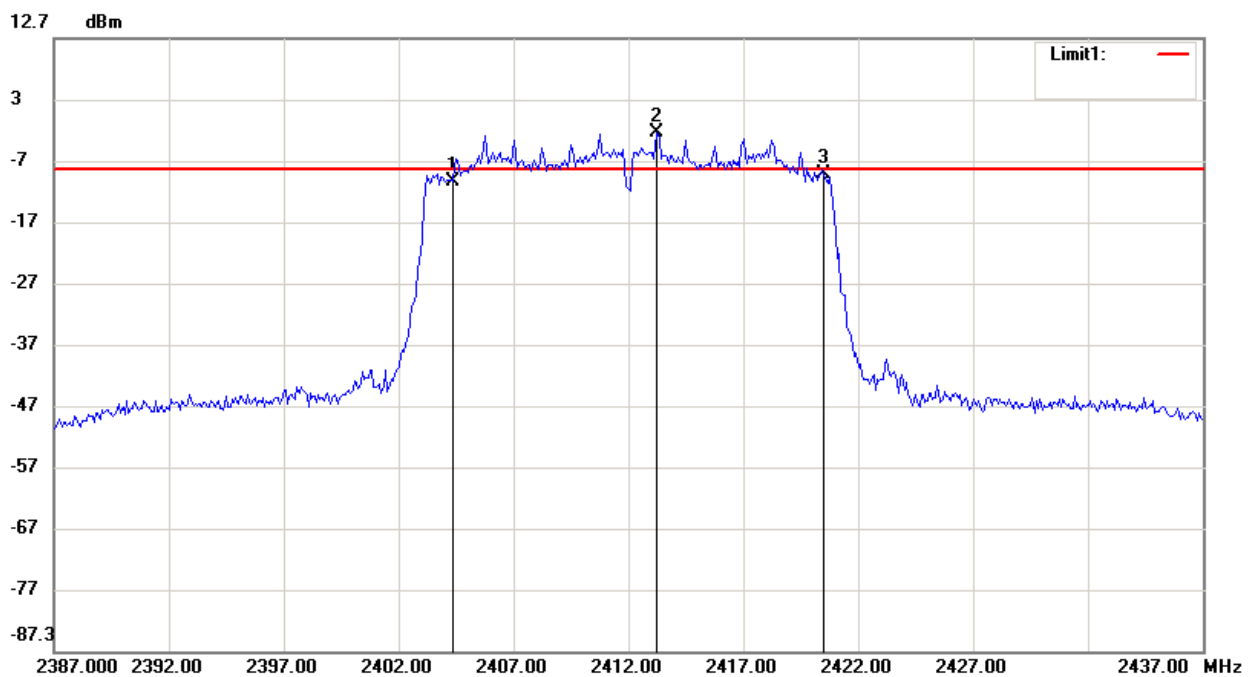
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Table 16: Test result of 6dB Bandwidth & 99% Bandwidth, 802.11gn, HT20

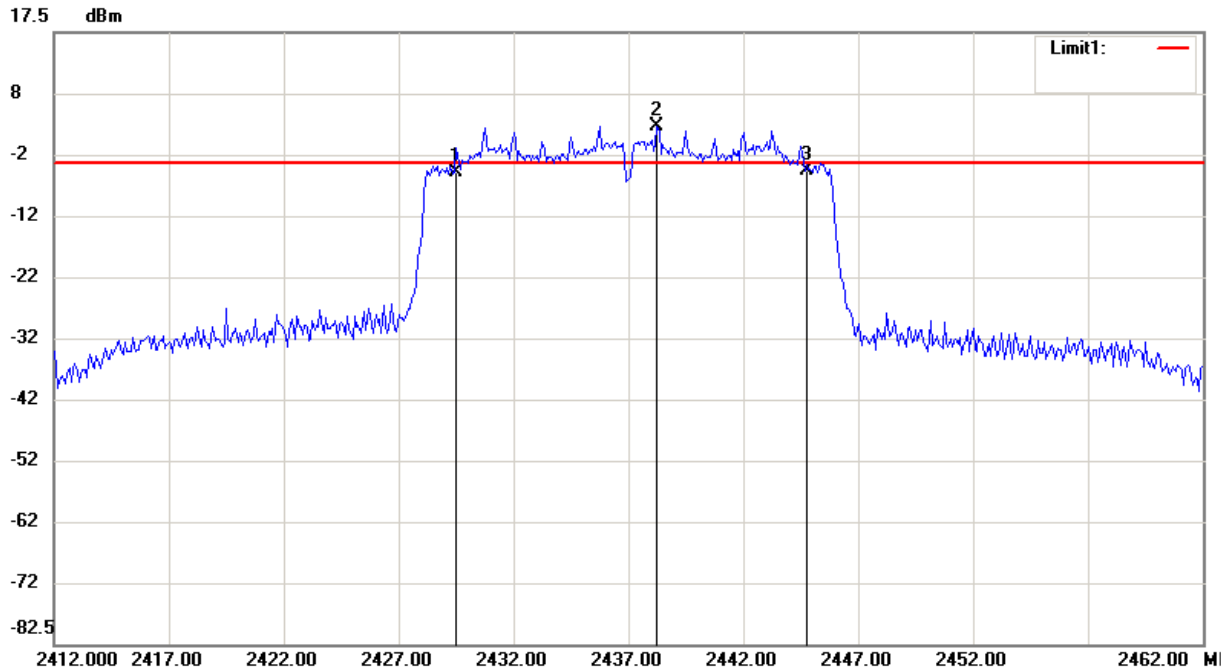
| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|---------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 2412 | 16.167 | 17.083 | 17.445 | 17.380 | 500kHz |
| Mid Channel | 2437 | 15.250 | 16.250 | 17.444 | 17.408 | 500kHz |
| High Channel | 2462 | 16.167 | 16.750 | 17.369 | 17.436 | 500kHz |



Condition: Chain 0 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 500ms Att.: 20dB**
Model: RF-HTN102 **RBW: 100 KHz VBW: 300 KHz**
Test Mode: Transmitting
Note: FCC-802.11gn_HT20 Channel 01-6dB EBW

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2404.33330 | -10.52 |
| 2 | 2413.25000 | -2.74 |
| 3 | 2420.50000 | -9.28 |

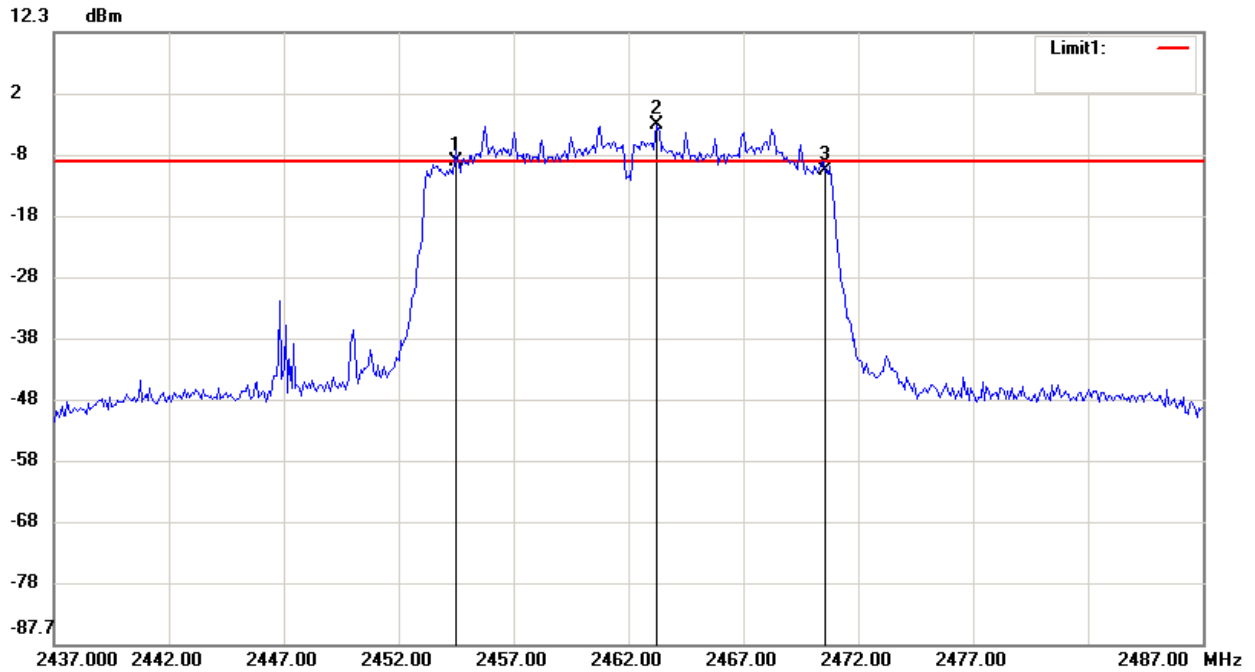
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 16.1667 | 1.24 |



| | | |
|-------------------|--------------------------------------|-------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 06-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2429.41670 | -5.39 |
| 2 | 2438.25000 | 2.13 |
| 3 | 2444.66670 | -5.14 |

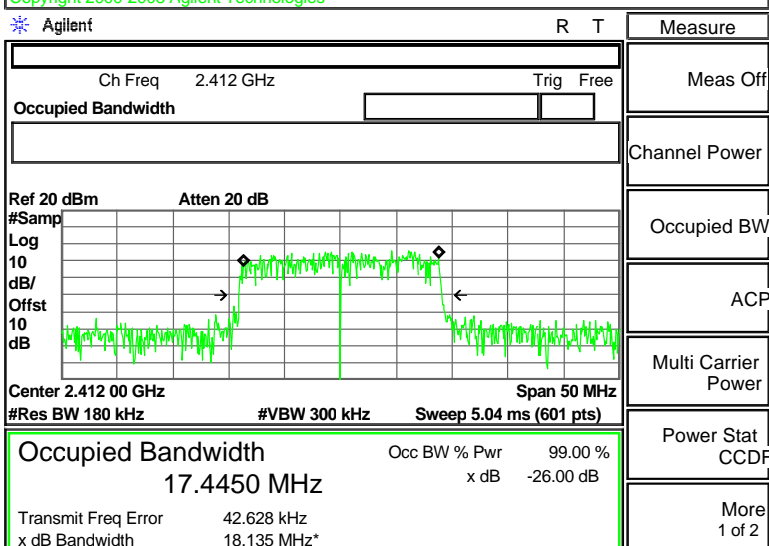
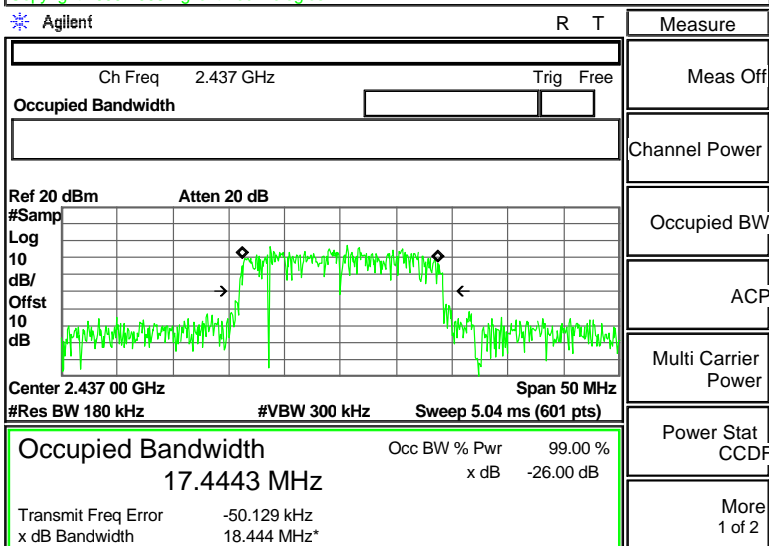
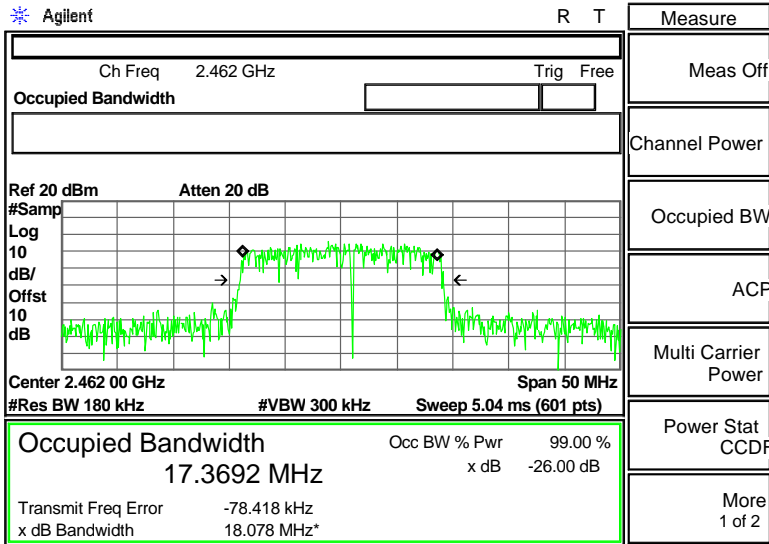
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.25 | 0.25 |

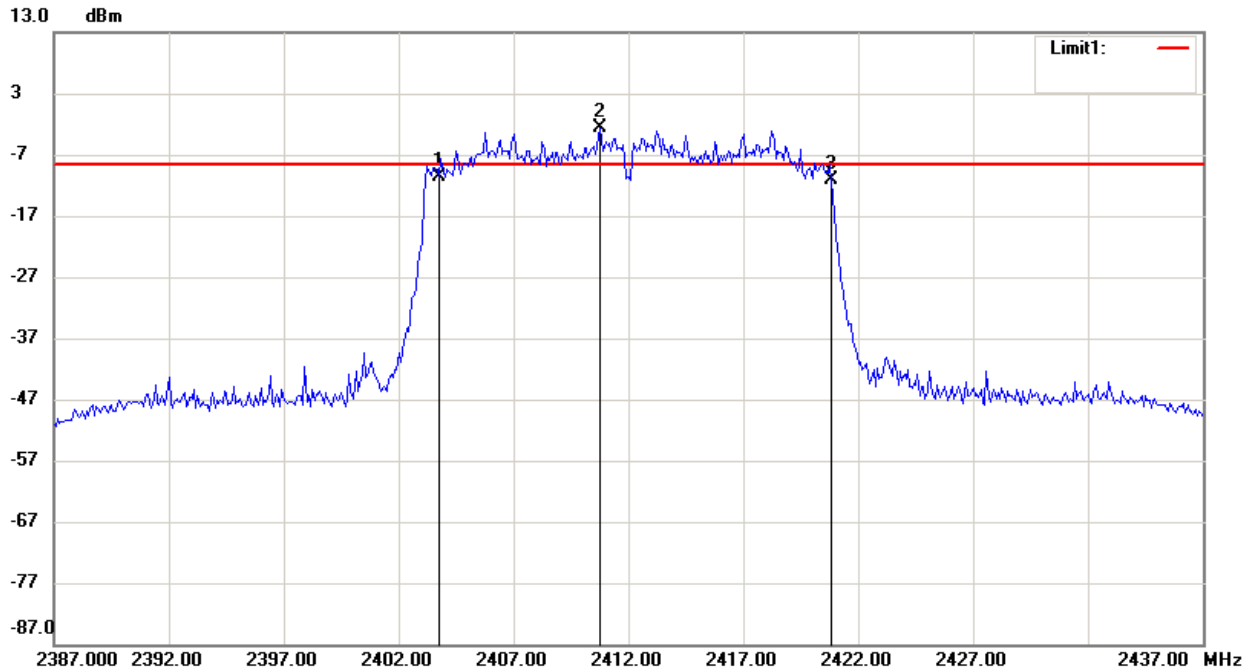


| | | |
|-------------------|--------------------------------------|-------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2454.41670 | -8.95 |
| 2 | 2463.25000 | -2.89 |
| 3 | 2470.58330 | -10.42 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 16.1666 | -1.47 |

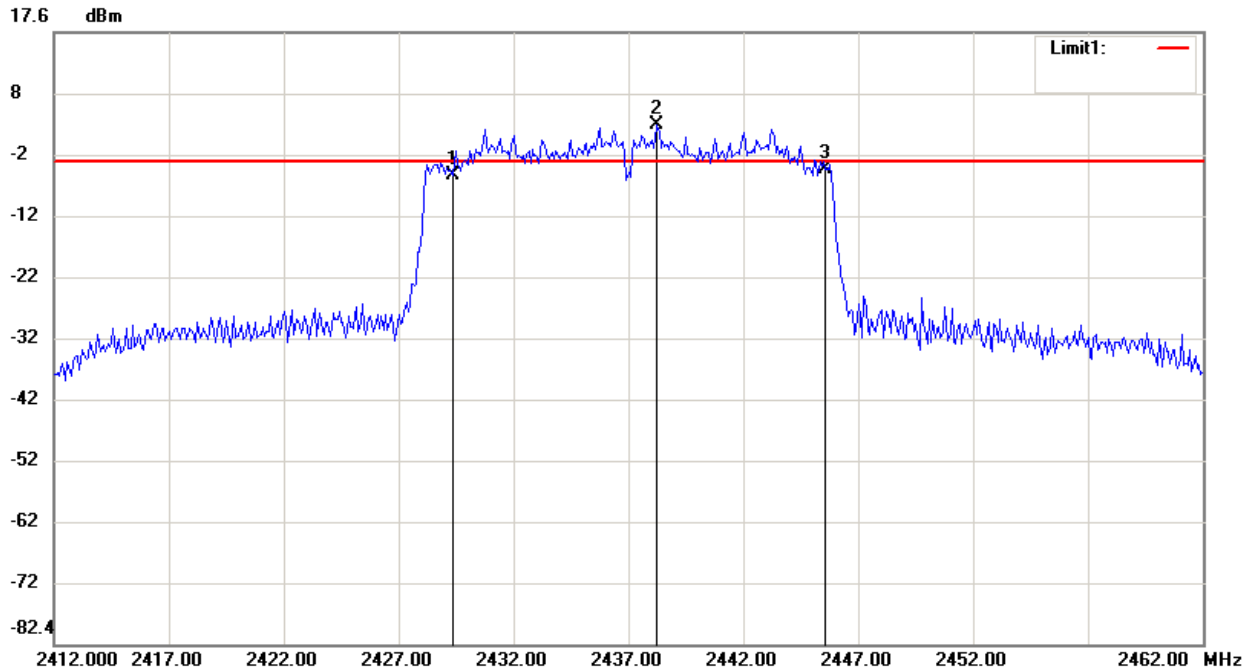




| | | |
|-------------------|--------------------------------------|-------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2403.75000 | -10.61 |
| 2 | 2410.75000 | -2.62 |
| 3 | 2420.83330 | -11.22 |

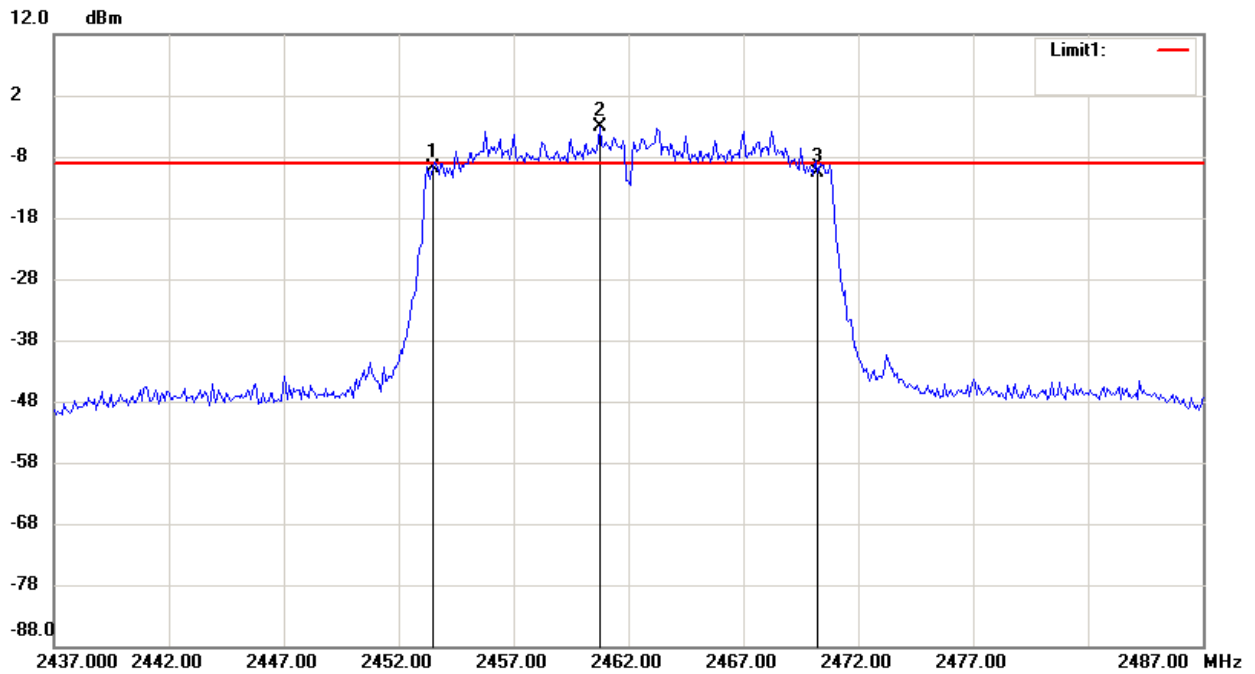
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 17.0833 | -0.61 |



| | | |
|-------------------|--------------------------------------|------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 06-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2429.33330 | -5.68 |
| 2 | 2438.25000 | 2.37 |
| 3 | 2445.58330 | -4.89 |

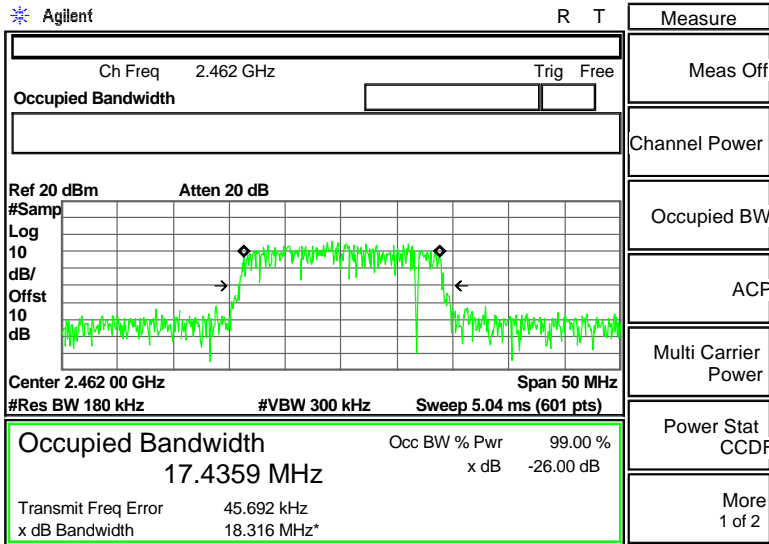
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 16.25 | 0.79 |



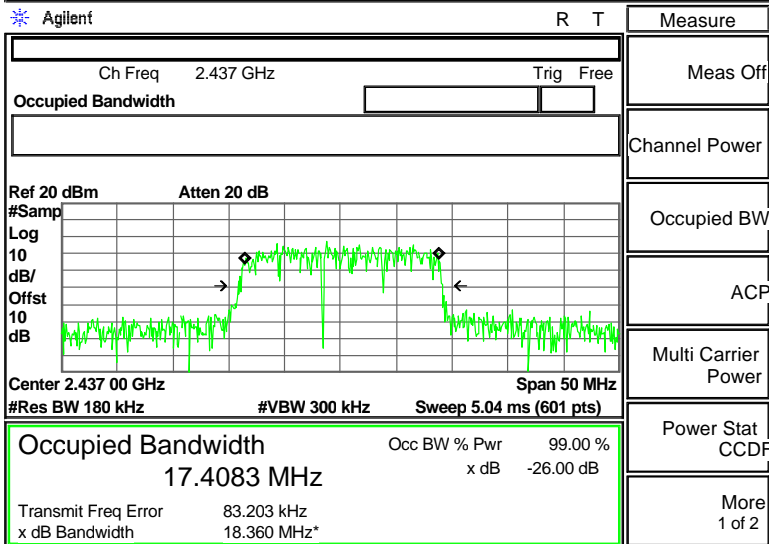
| | | |
|-------------------|--------------------------------------|------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2453.50000 | -9.84 |
| 2 | 2460.75000 | -3.10 |
| 3 | 2470.25000 | -10.53 |

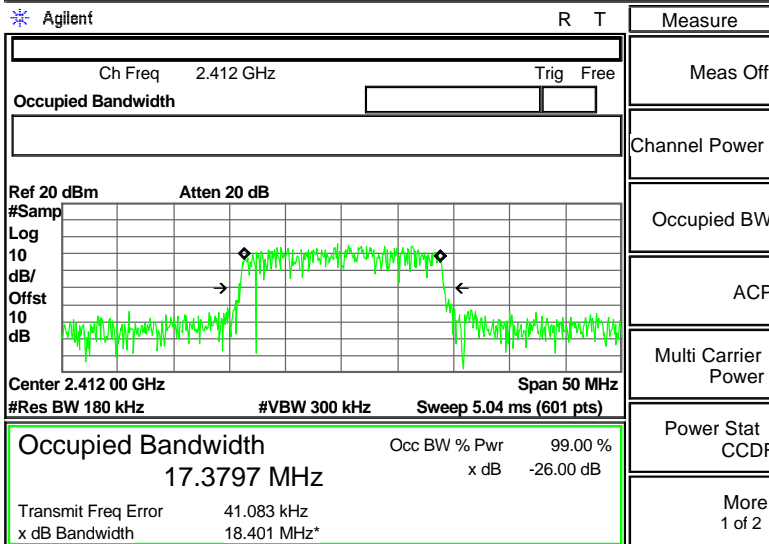
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 16.75 | -0.69 |



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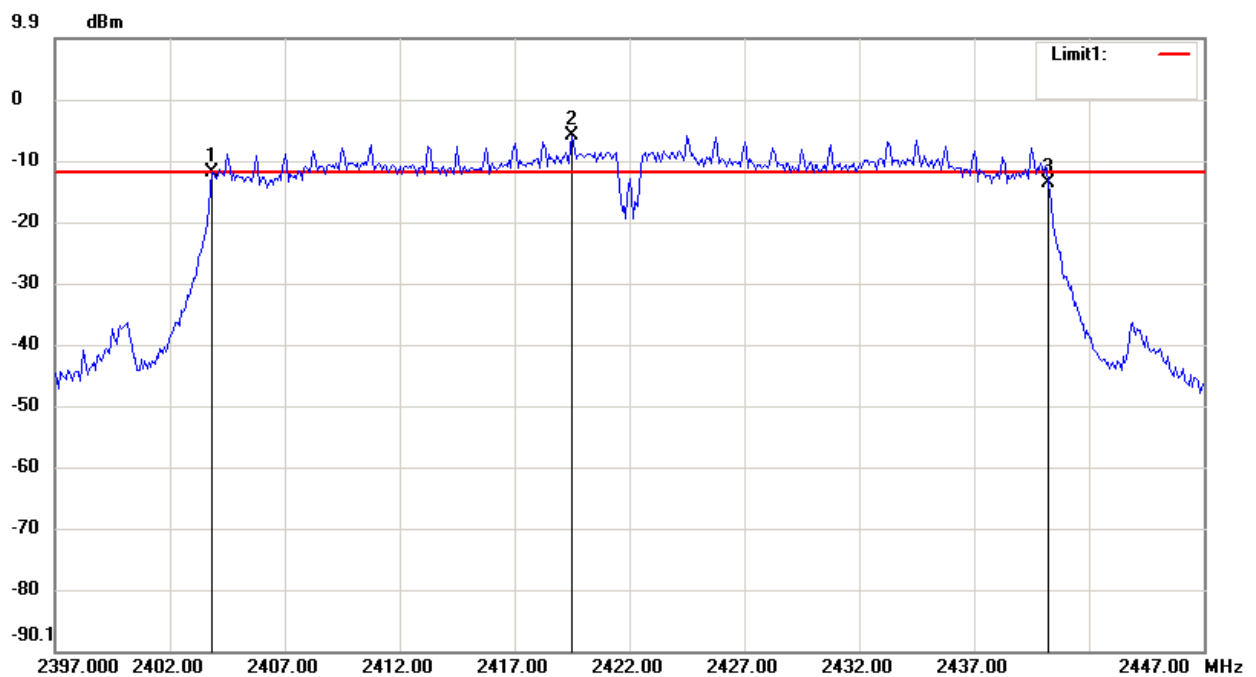
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Table 17: Test result of 6dB Bandwidth & 99% Bandwidth, 802.11gn, HT40

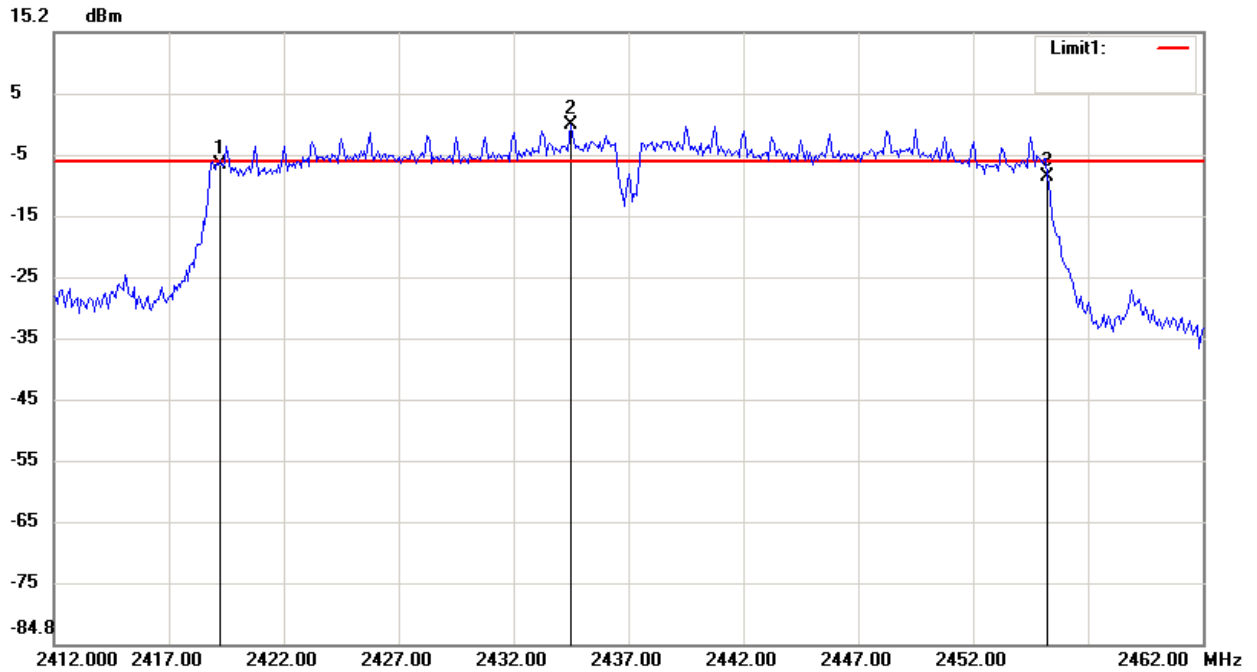
| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|---------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 2422 | 36.417 | 36.500 | 36.083 | 36.249 | 500kHz |
| Mid Channel | 2437 | 36.083 | 36.500 | 36.224 | 36.186 | 500kHz |
| High Channel | 2452 | 36.250 | 36.500 | 36.141 | 36.277 | 500kHz |



Condition: Chain 0 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 500ms Att.: 10dB**
Model: RF-HTN102 **RBW: 100 KHz VBW: 300 KHz**
Test Mode: Transmitting
Note: FCC-802.11gn_HT40 Channel 03-6dB EBW

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2403.83330 | -12.02 |
| 2 | 2419.50000 | -5.86 |
| 3 | 2440.25000 | -13.75 |

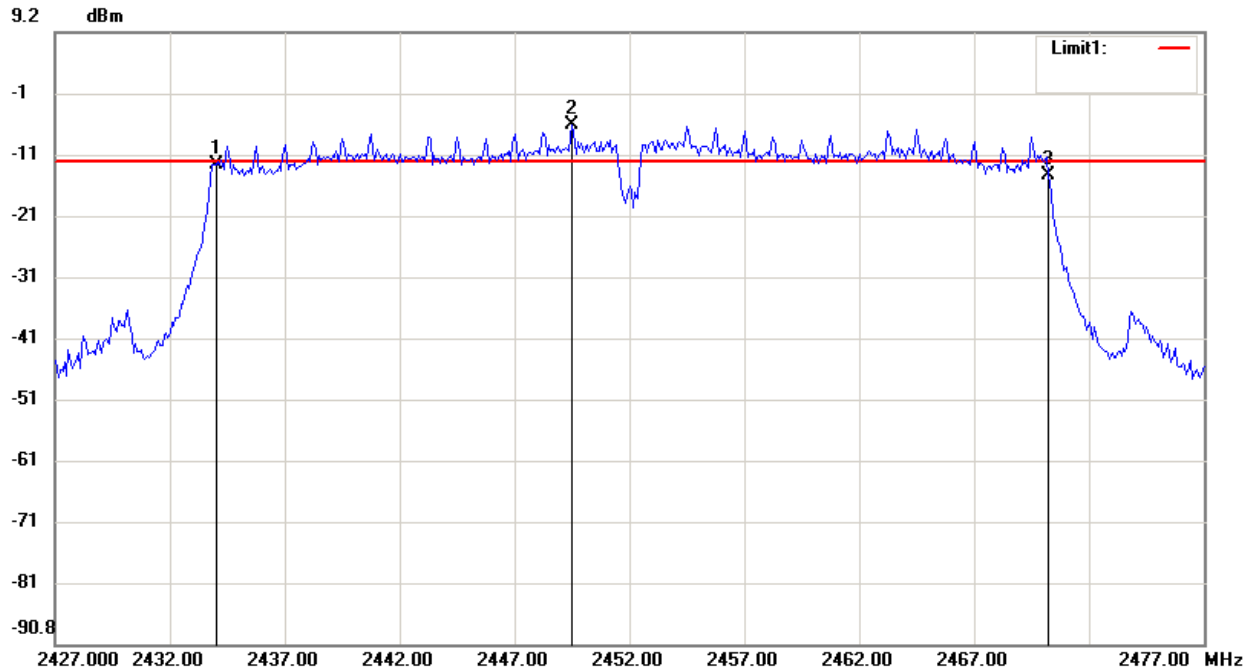
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.4167 | -1.73 |



| | | |
|-------------------|--------------------------------------|-------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 06-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2419.16670 | -6.42 |
| 2 | 2434.50000 | 0.02 |
| 3 | 2455.25000 | -8.43 |

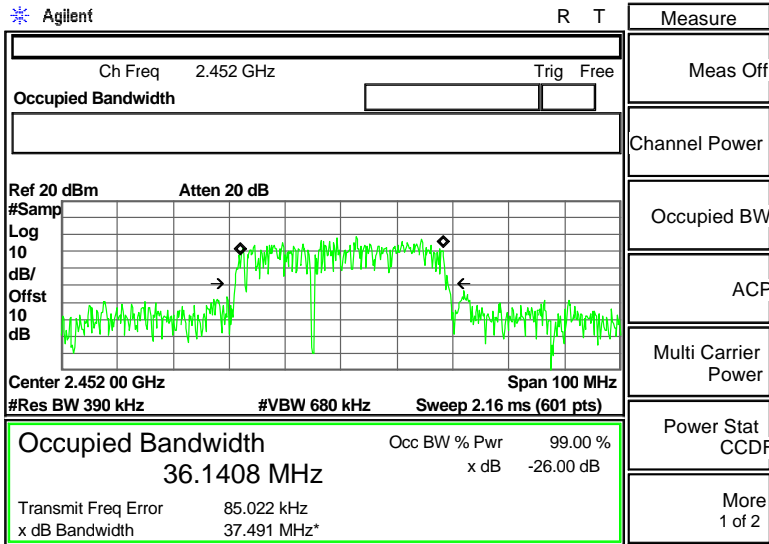
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.0833 | -2.01 |



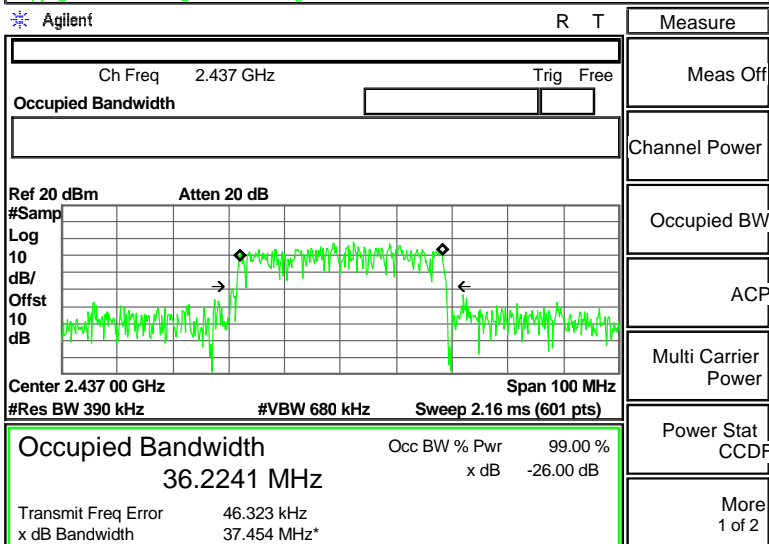
| | | |
|-------------------|--------------------------------------|-------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2434.00000 | -12.54 |
| 2 | 2449.50000 | -5.89 |
| 3 | 2470.25000 | -14.16 |

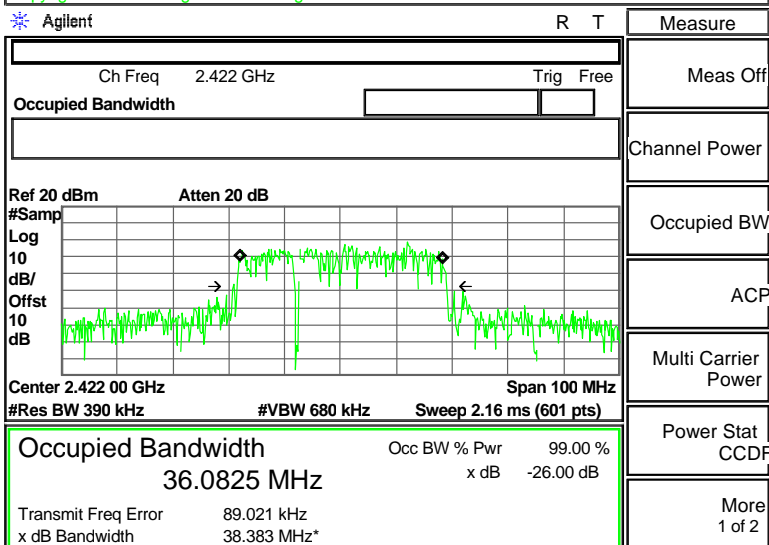
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.25 | -1.62 |



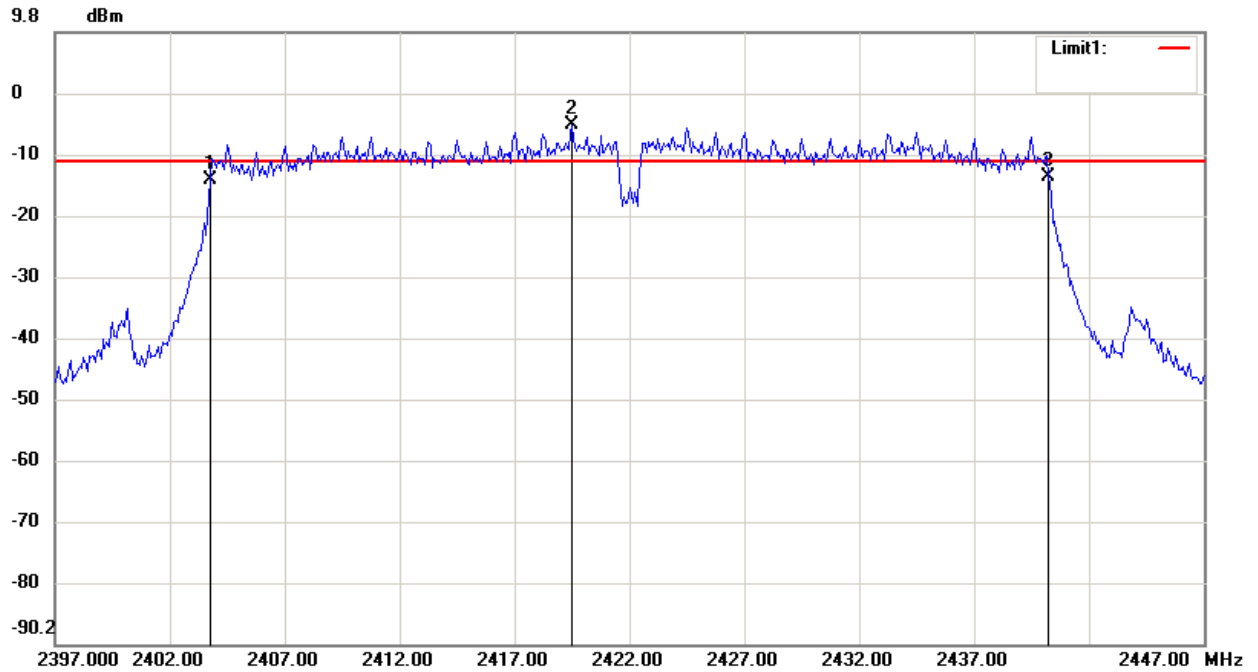
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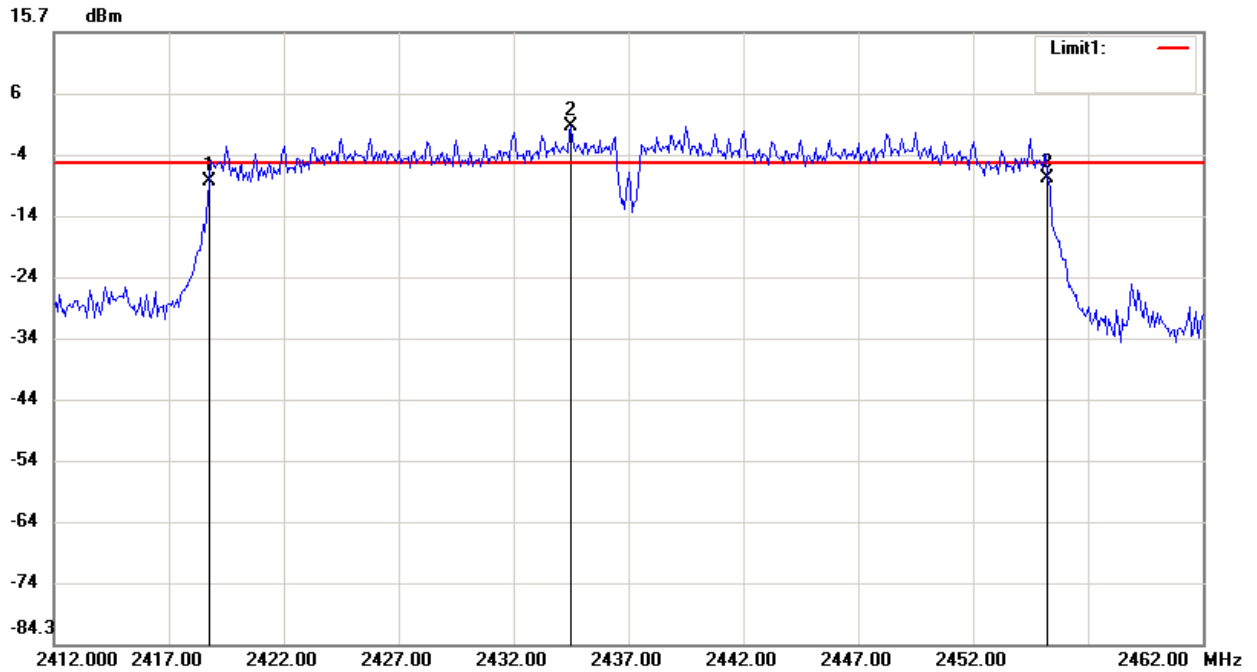
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| | | |
|-------------------|--------------------------------------|-------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2403.75000 | -14.33 |
| 2 | 2419.50000 | -5.43 |
| 3 | 2440.25000 | -13.86 |

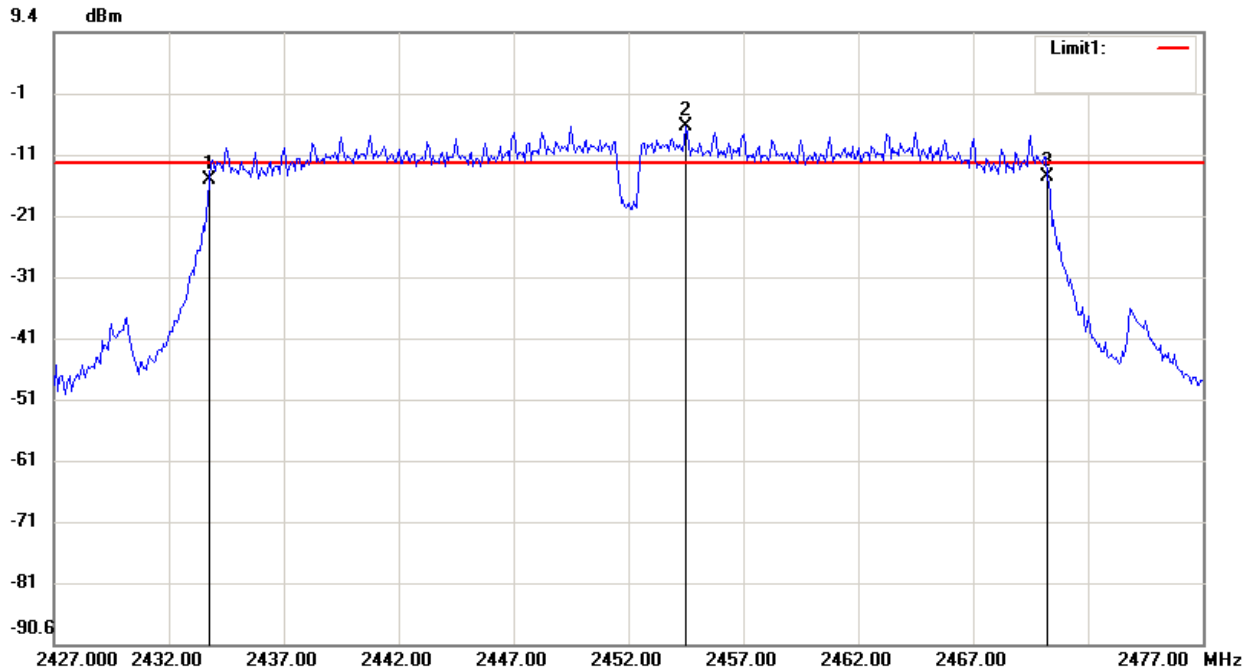
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.5 | 0.47 |



| | | |
|-------------------|--------------------------------------|-------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 06-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2418.75000 | -8.72 |
| 2 | 2434.50000 | 0.38 |
| 3 | 2455.25000 | -8.10 |

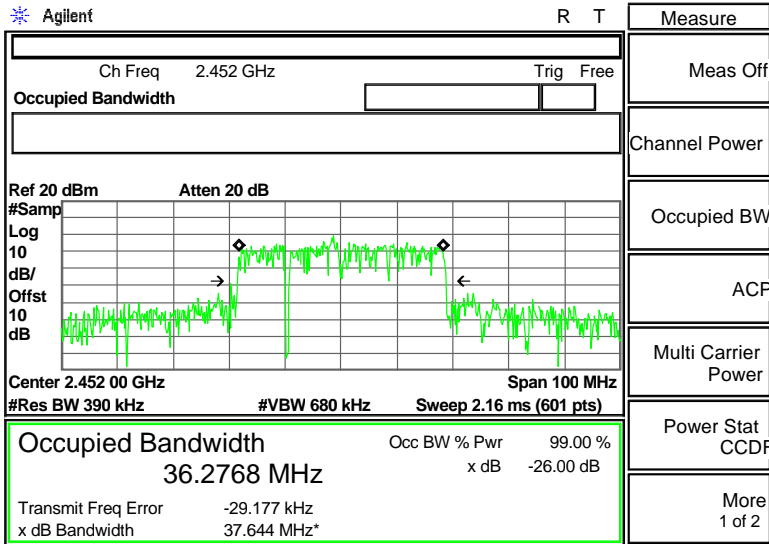
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.5 | 0.62 |



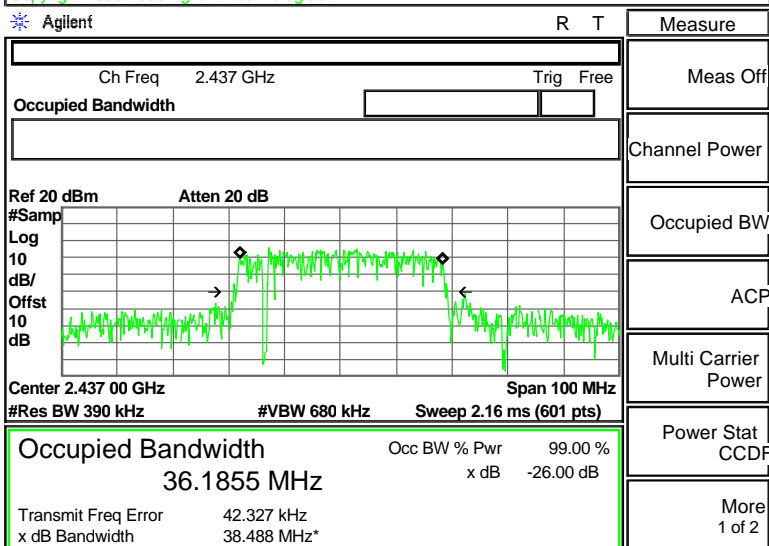
| | | |
|-------------------|--------------------------------------|-------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2433.75000 | -14.58 |
| 2 | 2454.50000 | -6.00 |
| 3 | 2470.25000 | -14.09 |

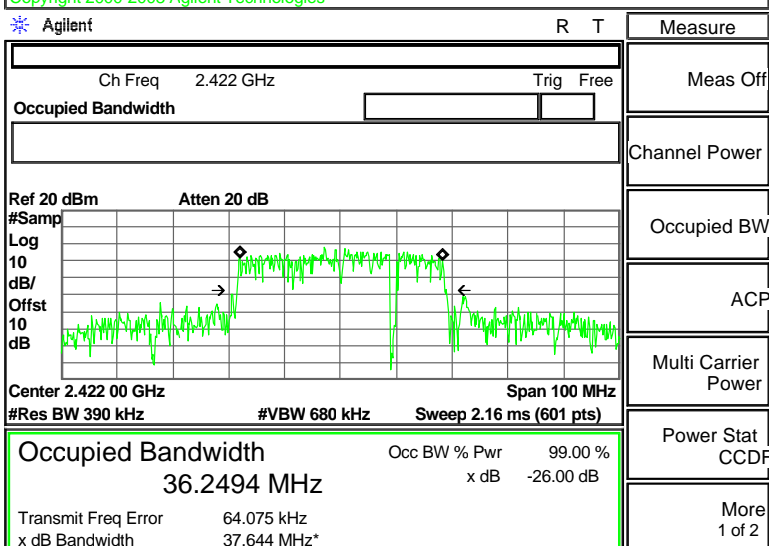
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.5 | 0.49 |



| |
|---------------------|
| Measure |
| Meas Off |
| Channel Power |
| Occupied BW |
| ACP |
| Multi Carrier Power |
| Power Stat CCDF |
| More 1 of 2 |



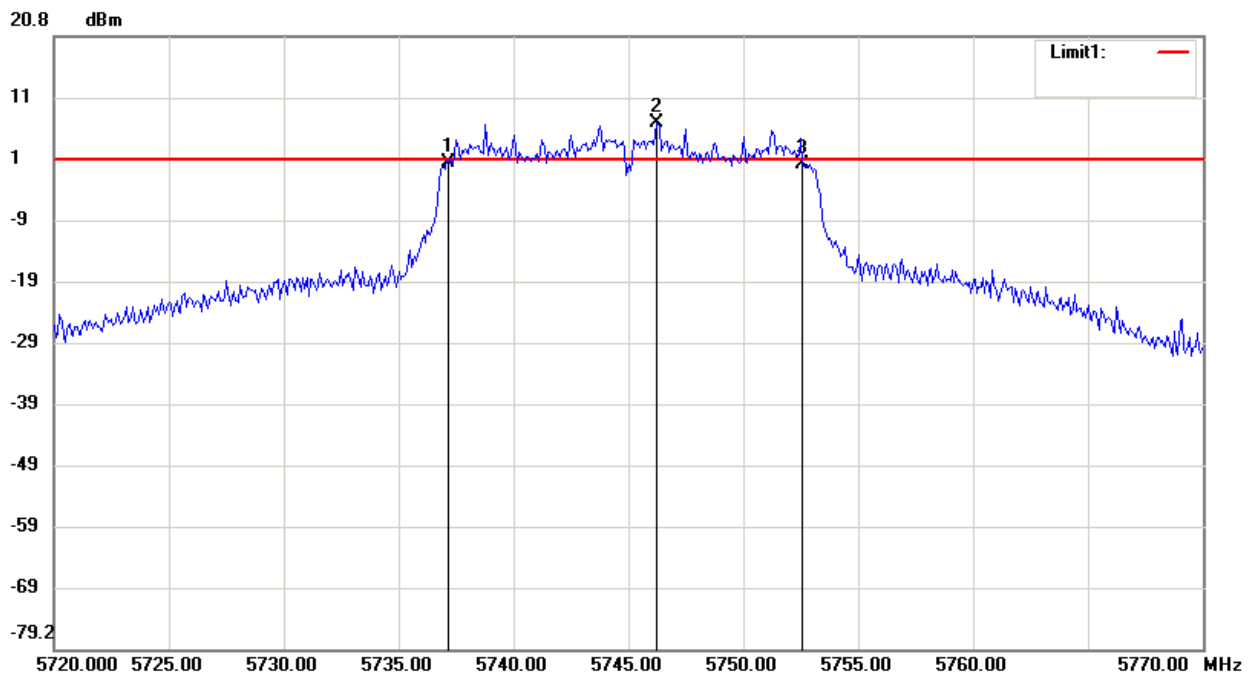
| |
|---------------------|
| Measure |
| Meas Off |
| Channel Power |
| Occupied BW |
| ACP |
| Multi Carrier Power |
| Power Stat CCDF |
| More 1 of 2 |



| |
|---------------------|
| Measure |
| Meas Off |
| Channel Power |
| Occupied BW |
| ACP |
| Multi Carrier Power |
| Power Stat CCDF |
| More 1 of 2 |

Table 18: Test result of 6dB Bandwidth & 99% Bandwidth, 802.11a

| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|---------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 5745 | 15.417 | 15.833 | 16.415 | 16.317 | 500kHz |
| Mid Channel | 5785 | 15.500 | 15.750 | 16.269 | 16.357 | 500kHz |
| High Channel | 5825 | 15.417 | 15.333 | 16.265 | 16.297 | 500kHz |

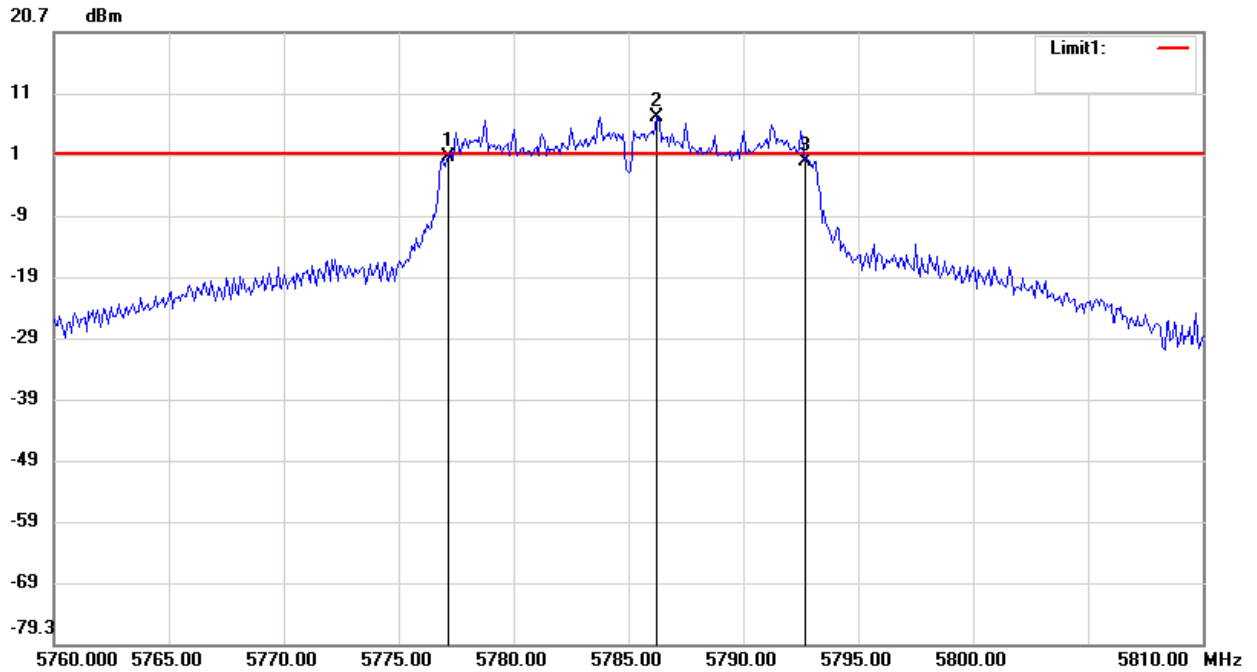


Condition: Chain 0
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 149-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 30dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5737.1667 | 0.26 |
| 2 | 5746.2500 | 6.72 |
| 3 | 5752.5833 | -0.16 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.4166 | -0.42 |

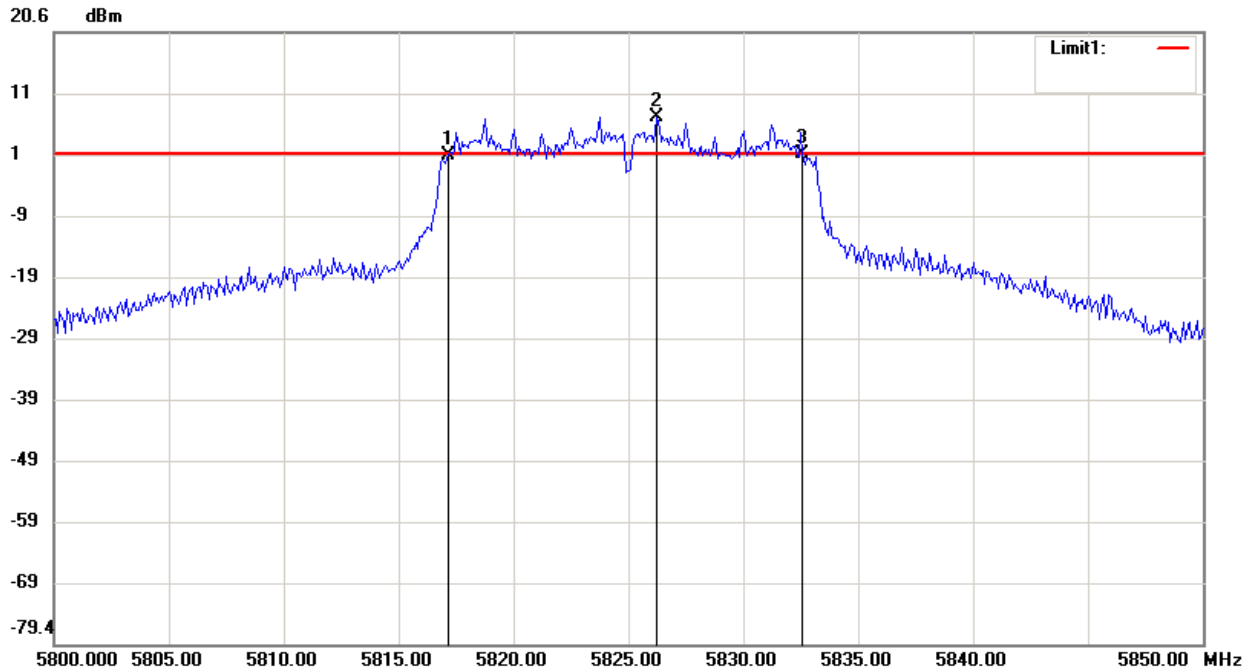


Condition: Chain 0
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 157-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 30dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5777.1667 | 0.36 |
| 2 | 5786.2500 | 6.93 |
| 3 | 5792.6667 | -0.44 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.5 | -0.8 |

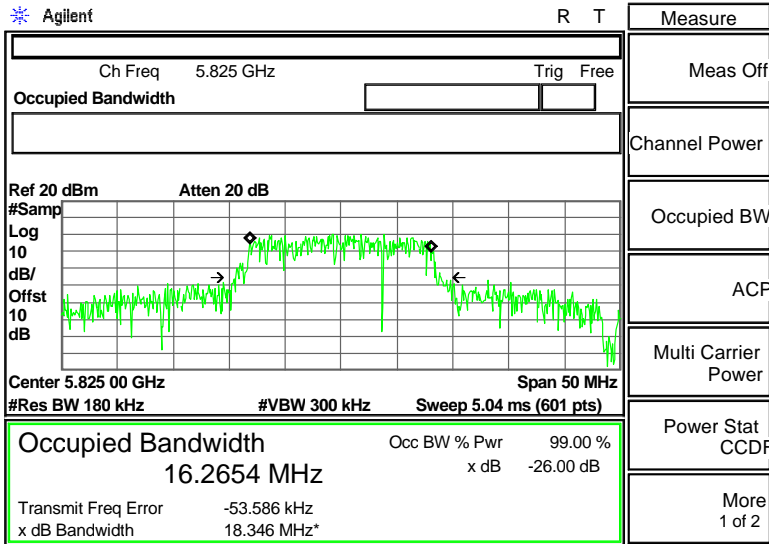


Condition: Chain 0
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 165-6dB EBW

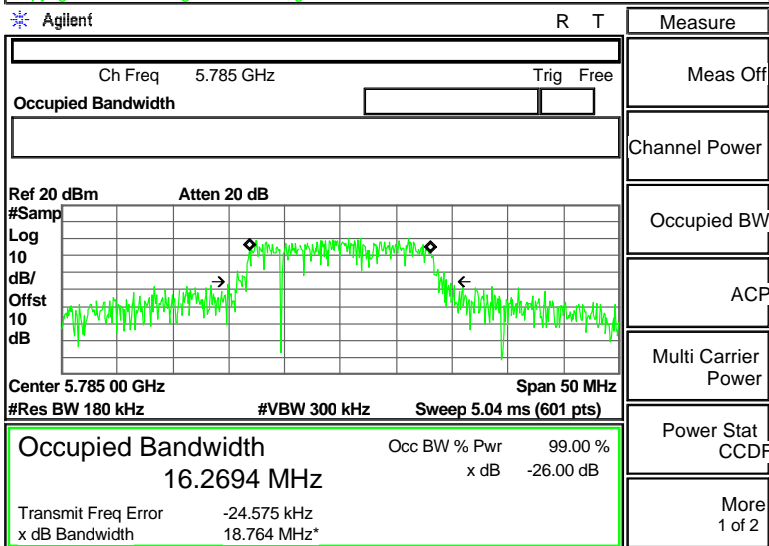
RF Conducted
Sweep Time: 500ms **Att.:** 30dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5817.1667 | 0.57 |
| 2 | 5826.2500 | 6.72 |
| 3 | 5832.5833 | 0.66 |

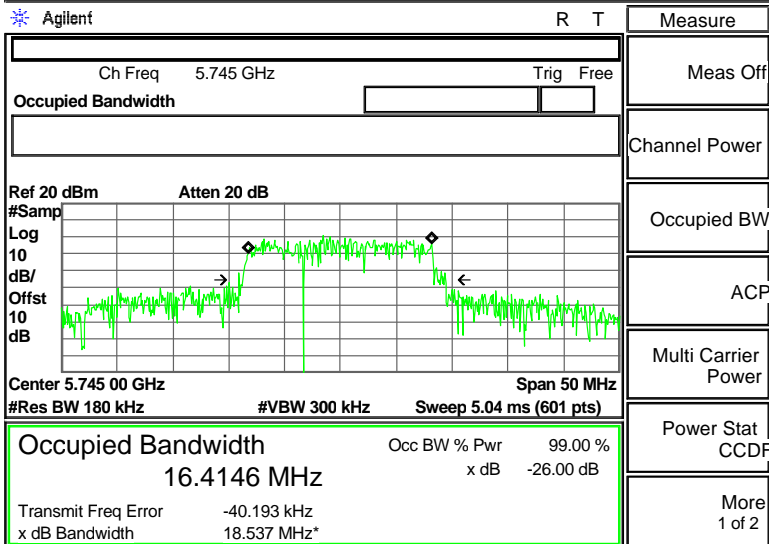
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.4166 | 0.09 |



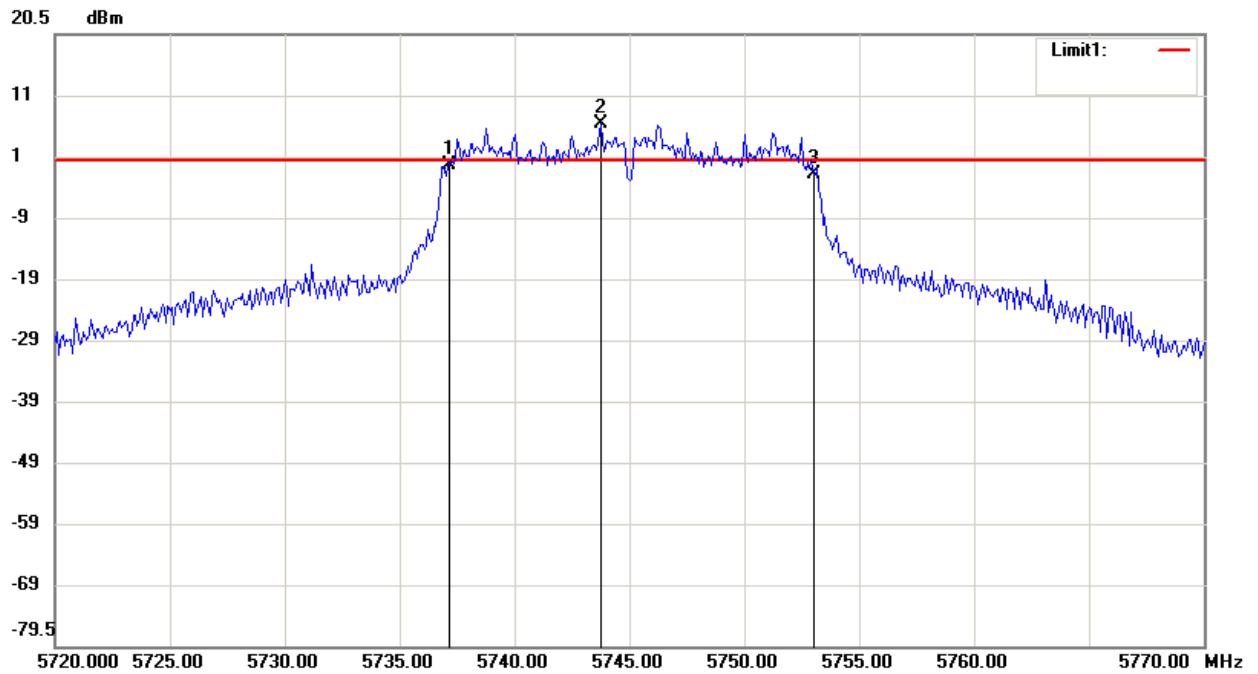
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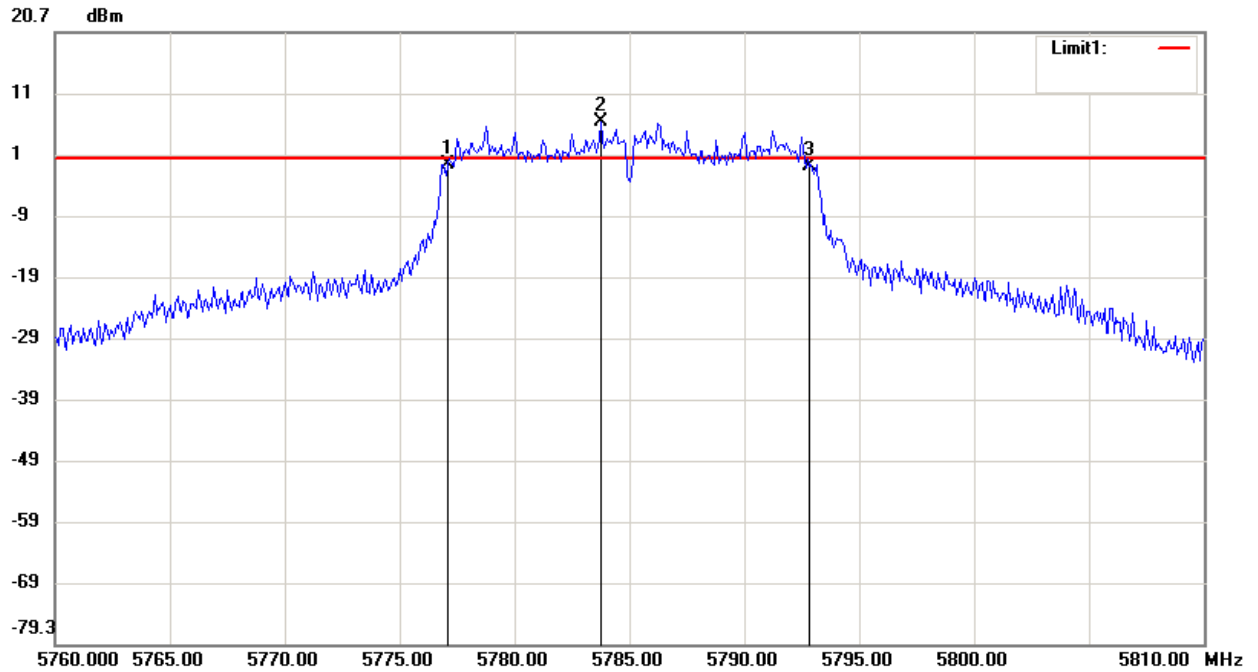


Condition: Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 149-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 30dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5737.1667 | -0.78 |
| 2 | 5743.7500 | 5.83 |
| 3 | 5753.0000 | -2.46 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.8333 | -1.68 |

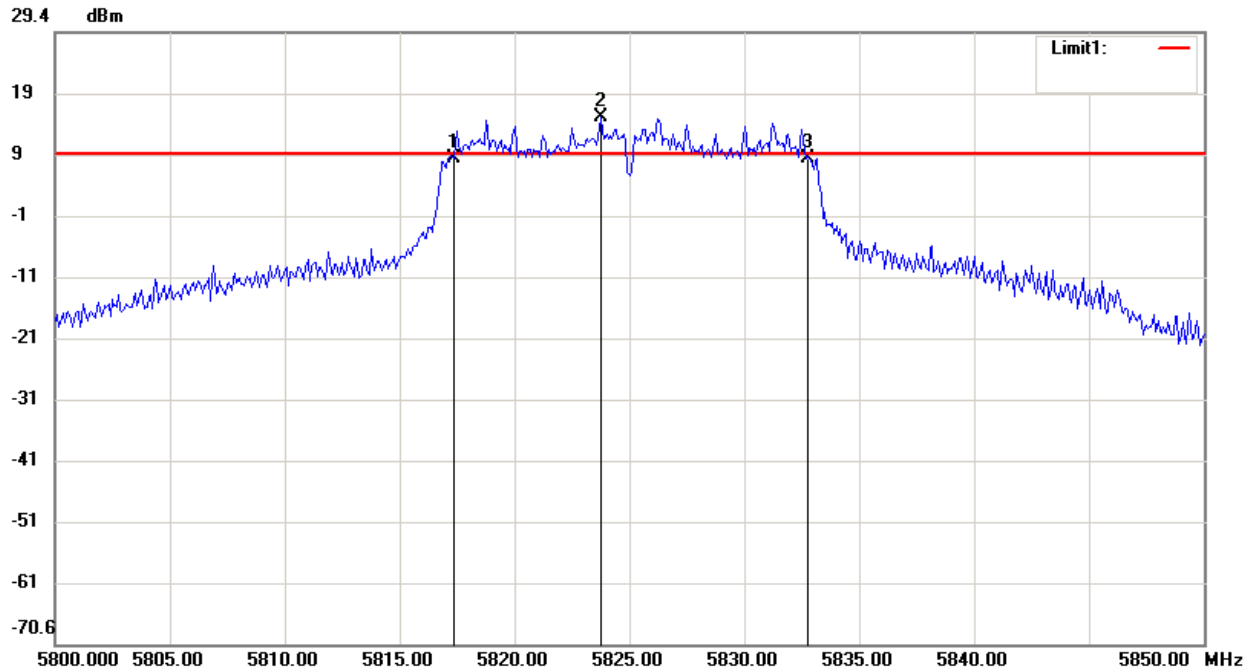


Condition: Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 157-6dB EBW

RF Conducted
Sweep Time: 500ms **Att.:** 30dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5777.0833 | -1.02 |
| 2 | 5783.7500 | 5.95 |
| 3 | 5792.8333 | -1.20 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.75 | -0.18 |

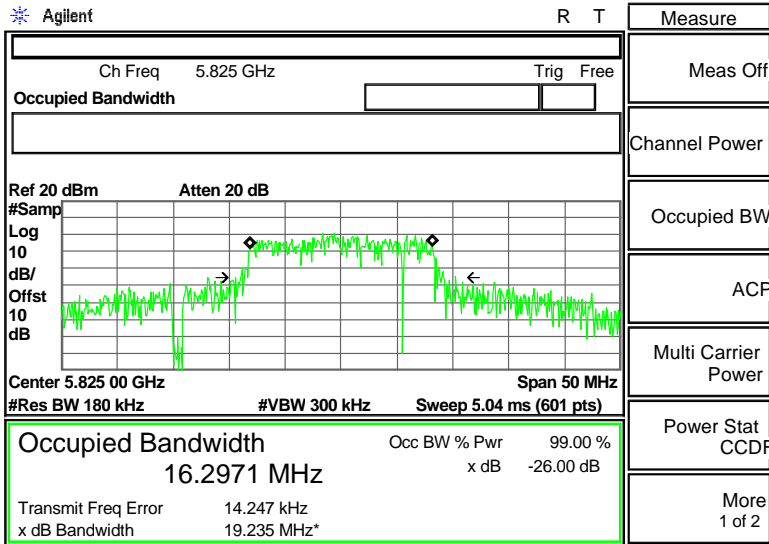


Condition: Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 165-6dB EBW

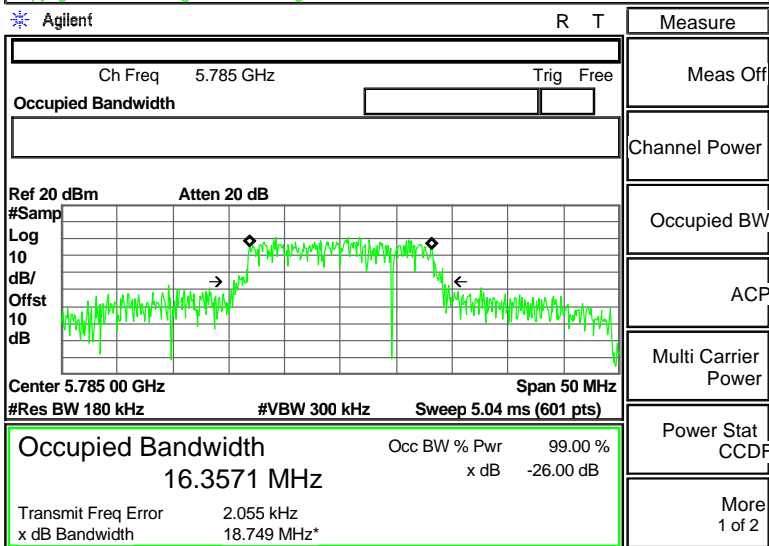
RF Conducted
Sweep Time: 500ms **Att.:** 30dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5817.33330 | 8.71 |
| 2 | 5823.75000 | 15.59 |
| 3 | 5832.66670 | 8.79 |

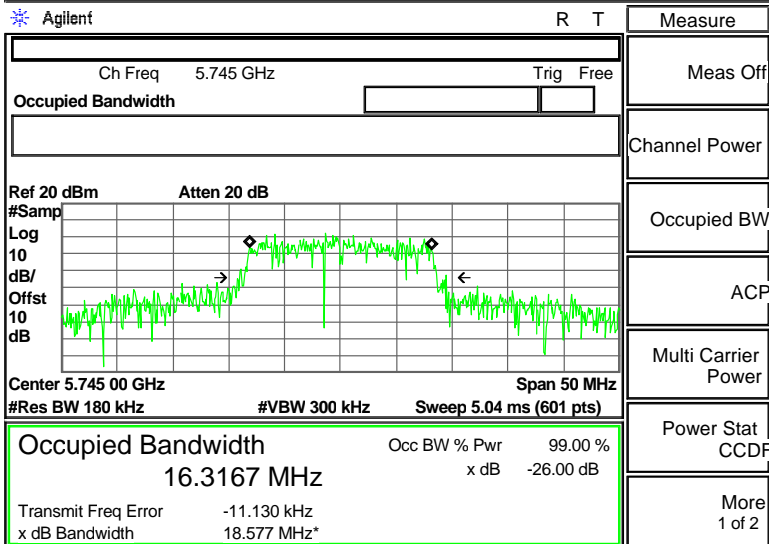
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.3334 | 0.08 |



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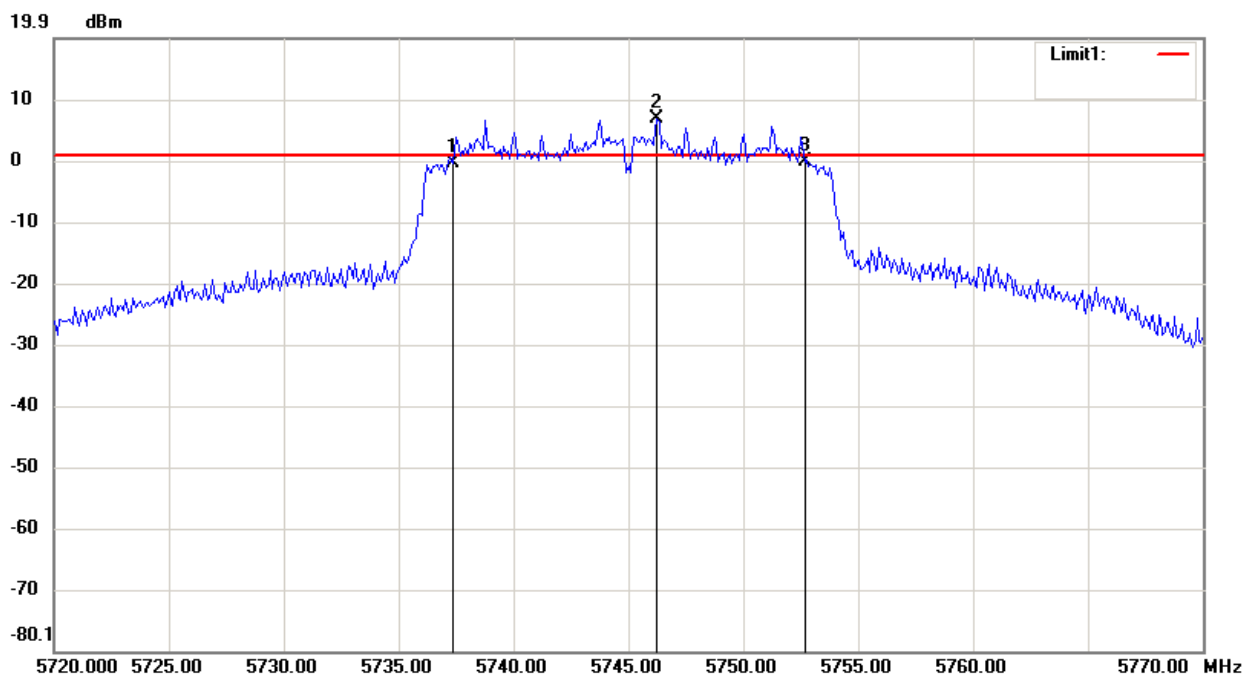
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Table 19: Test result of 6dB Bandwidth & 99% Bandwidth, 802.11an, HT20

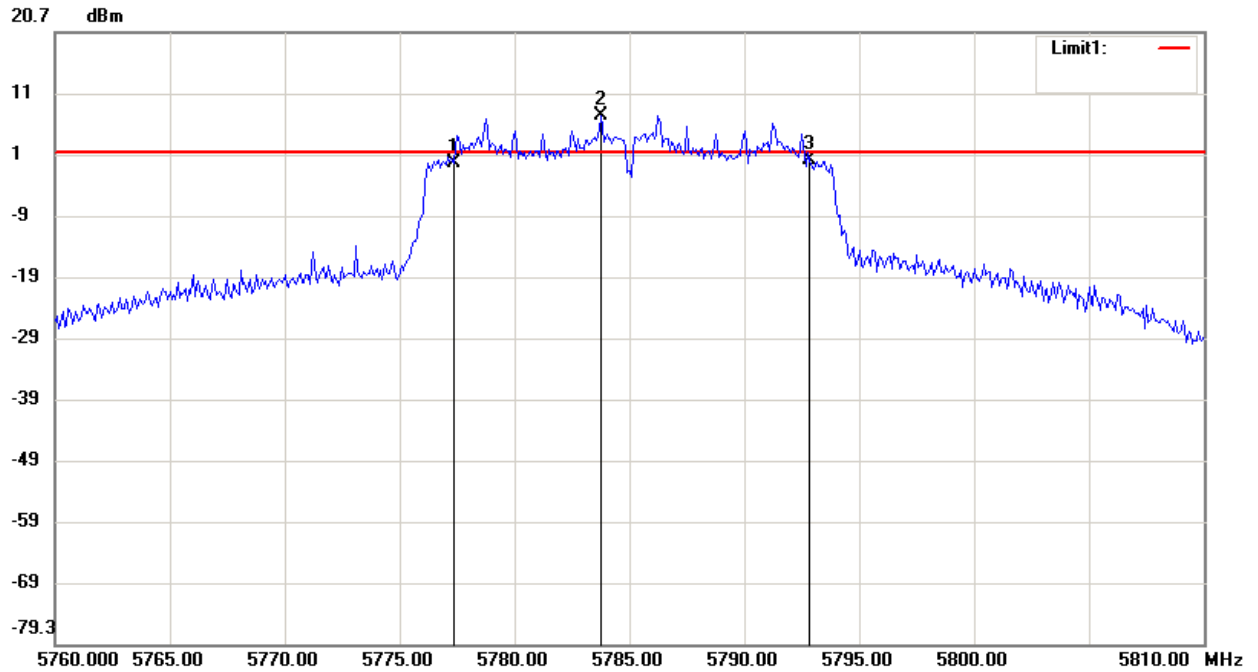
| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|---------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 5745 | 15.333 | 15.750 | 17.537 | 17.607 | 500kHz |
| Mid Channel | 5785 | 15.500 | 15.333 | 17.593 | 17.537 | 500kHz |
| High Channel | 5825 | 15.333 | 15.833 | 17.541 | 17.537 | 500kHz |



Condition: Chain 0 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 500ms Att.: 20dB**
Model: RF-HTN102 **RBW: 100 KHz VBW: 300 KHz**
Test Mode: Transmitting
Note: FCC-802.11an_HT20 Channel 149-6dB EBW

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5737.3333 | -0.34 |
| 2 | 5746.2500 | 6.77 |
| 3 | 5752.6667 | -0.10 |

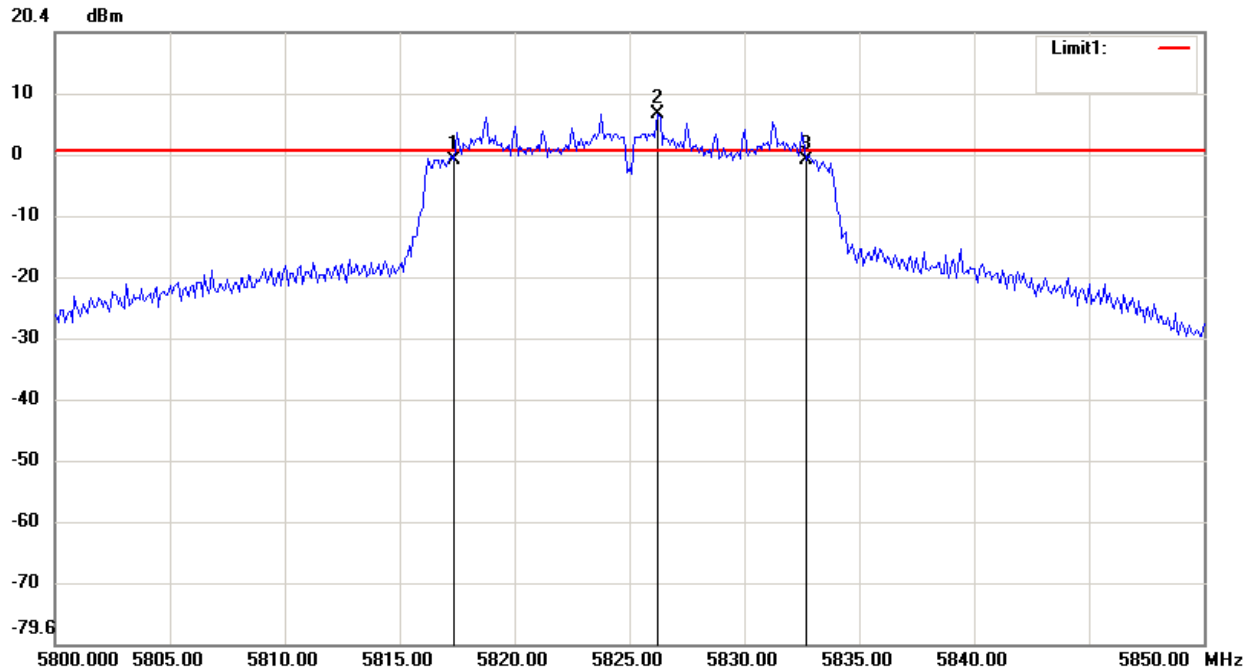
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.3334 | 0.24 |



| | | |
|-------------------|---------------------------------------|-------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 157-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5777.3333 | -0.65 |
| 2 | 5783.7500 | 7.07 |
| 3 | 5792.8333 | -0.09 |

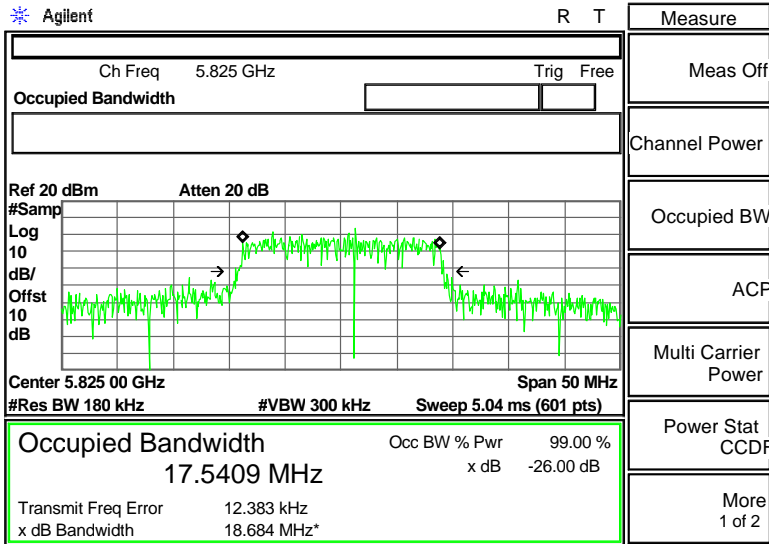
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.5 | 0.56 |



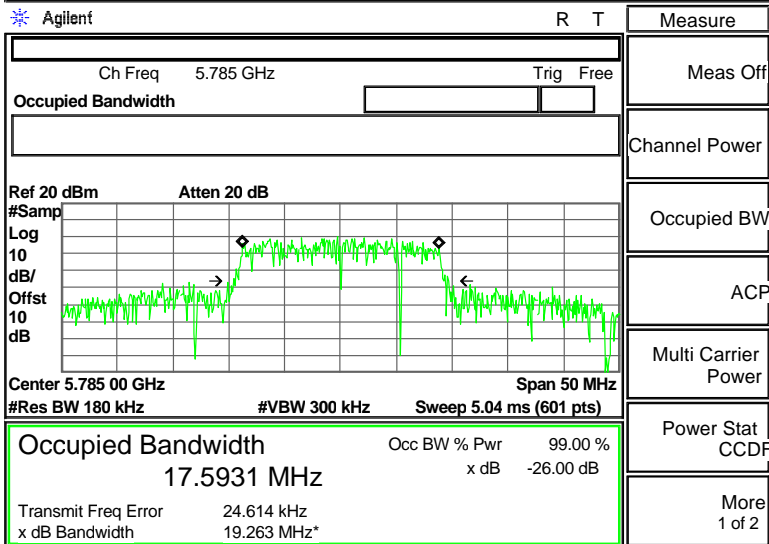
| | | |
|-------------------|---------------------------------------|------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5817.3333 | -0.56 |
| 2 | 5826.2500 | 6.94 |
| 3 | 5832.6667 | -0.58 |

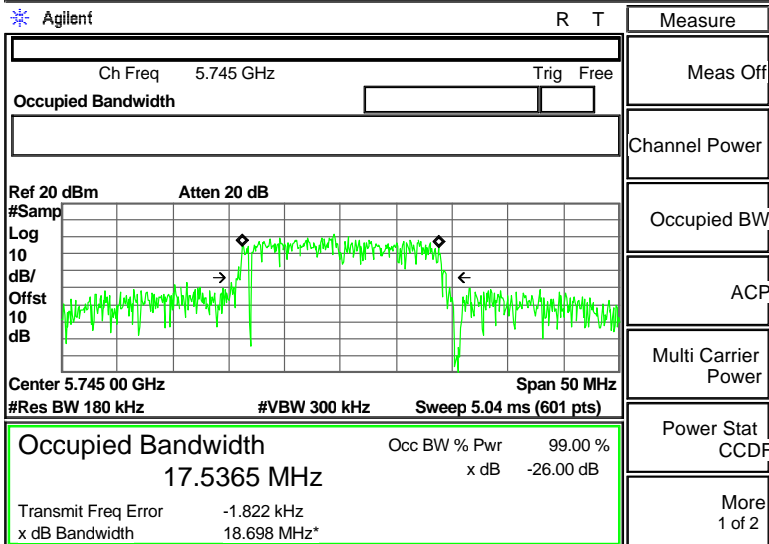
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.3334 | -0.02 |



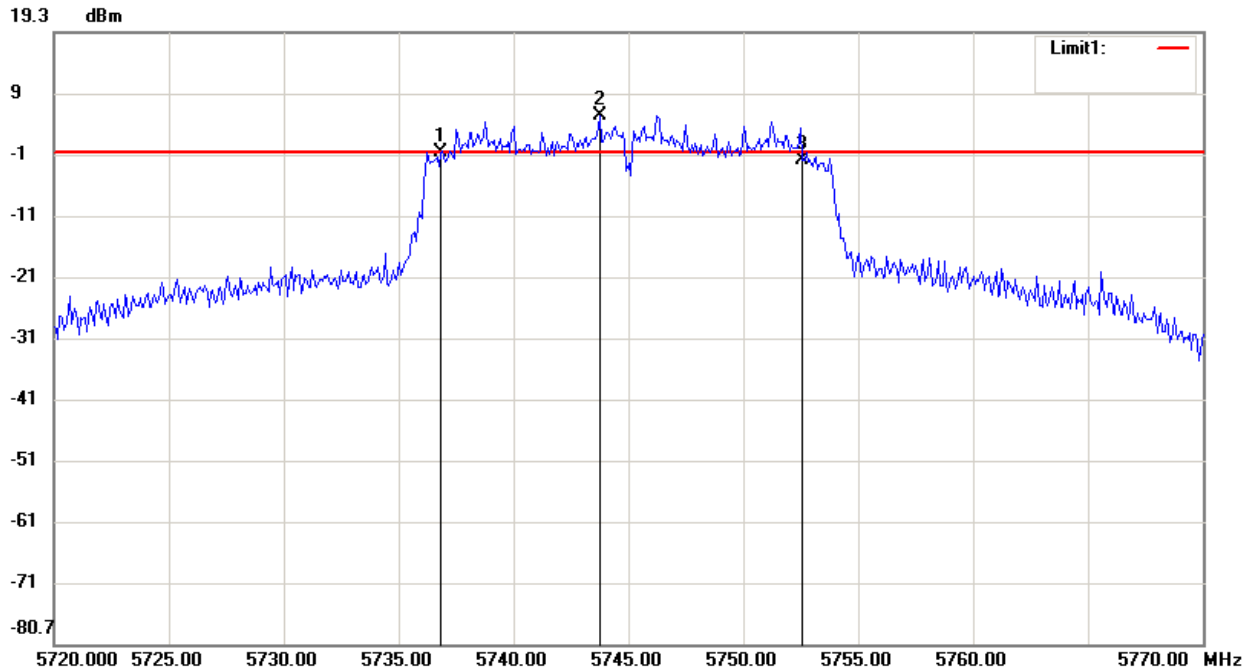
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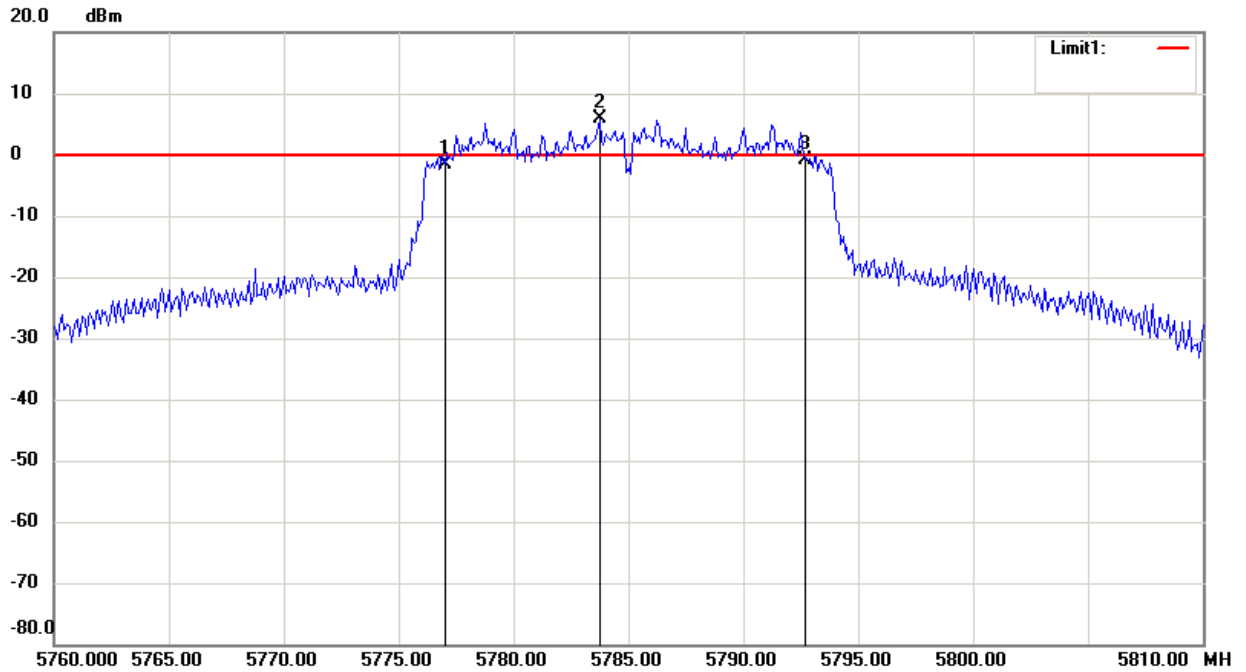
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| | | |
|-------------------|---------------------------------------|-------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5736.8333 | -0.39 |
| 2 | 5743.7500 | 5.82 |
| 3 | 5752.5833 | -1.42 |

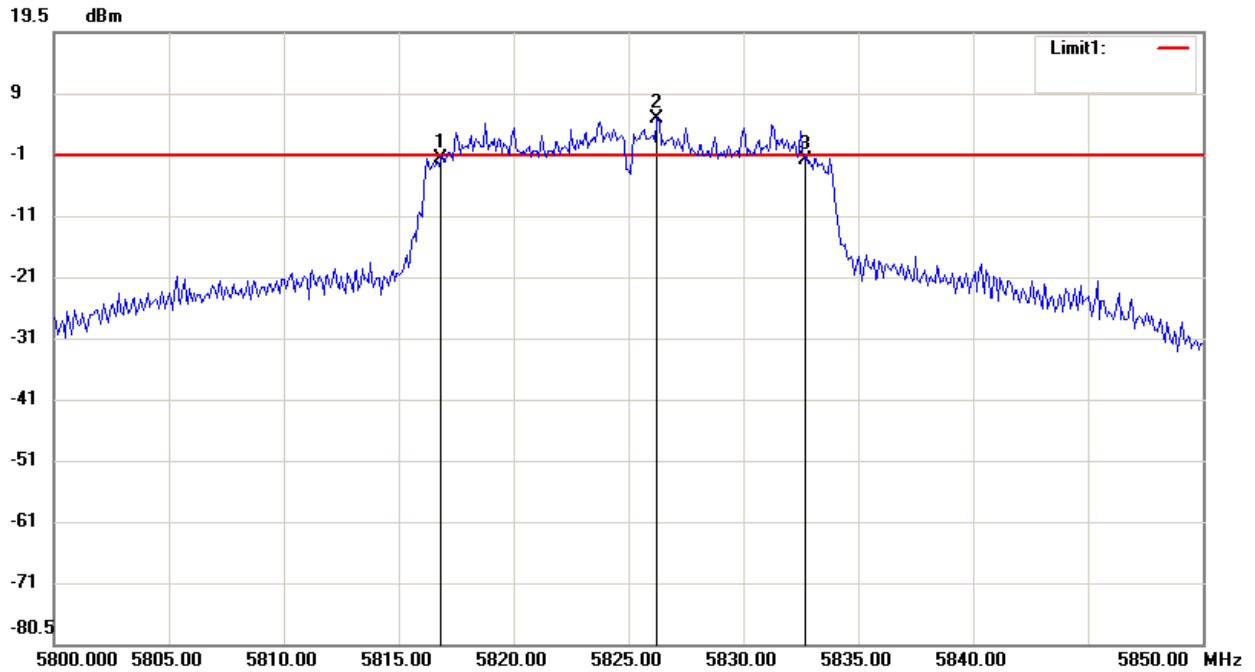
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.75 | -1.03 |



| | | |
|-------------------|---------------------------------------|-------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 157-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5777.0000 | -1.72 |
| 2 | 5783.7500 | 5.85 |
| 3 | 5792.6667 | -0.85 |

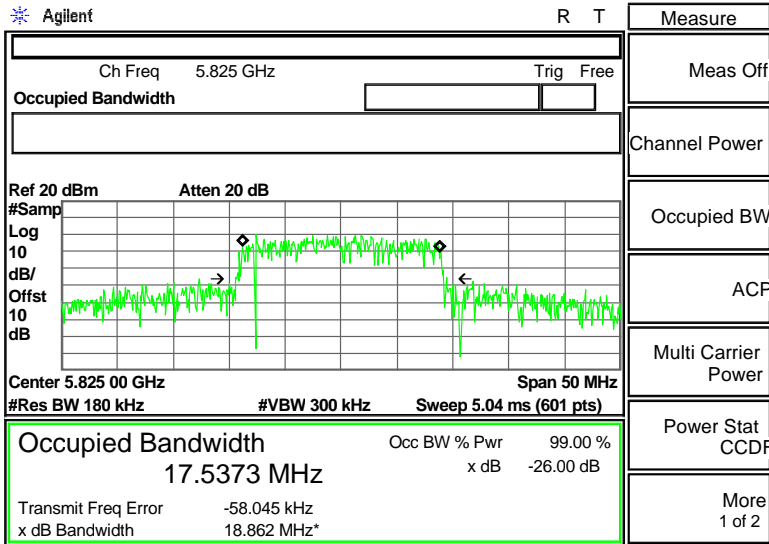
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.6667 | 0.87 |



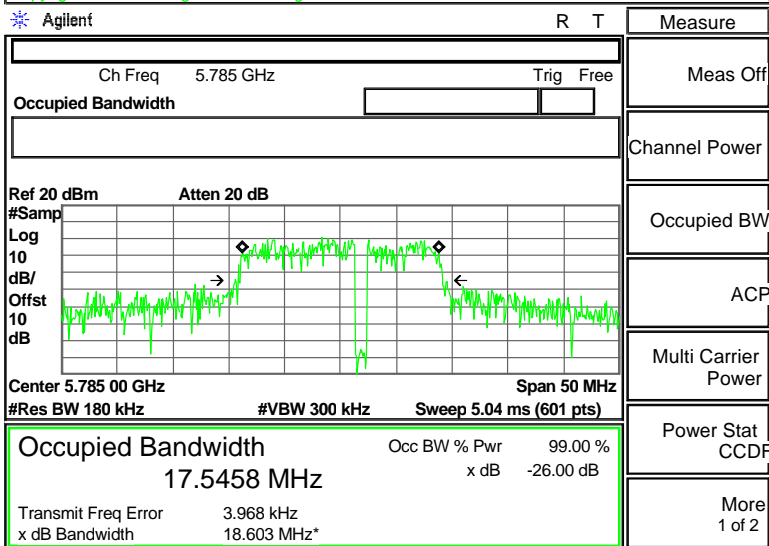
| | | |
|-------------------|---------------------------------------|-------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5816.8333 | -1.05 |
| 2 | 5826.2500 | 5.26 |
| 3 | 5832.6667 | -1.34 |

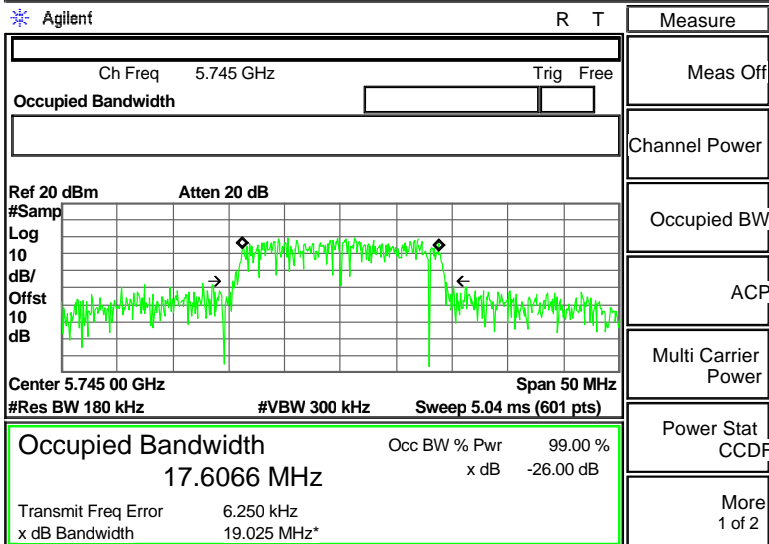
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 15.8334 | -0.29 |



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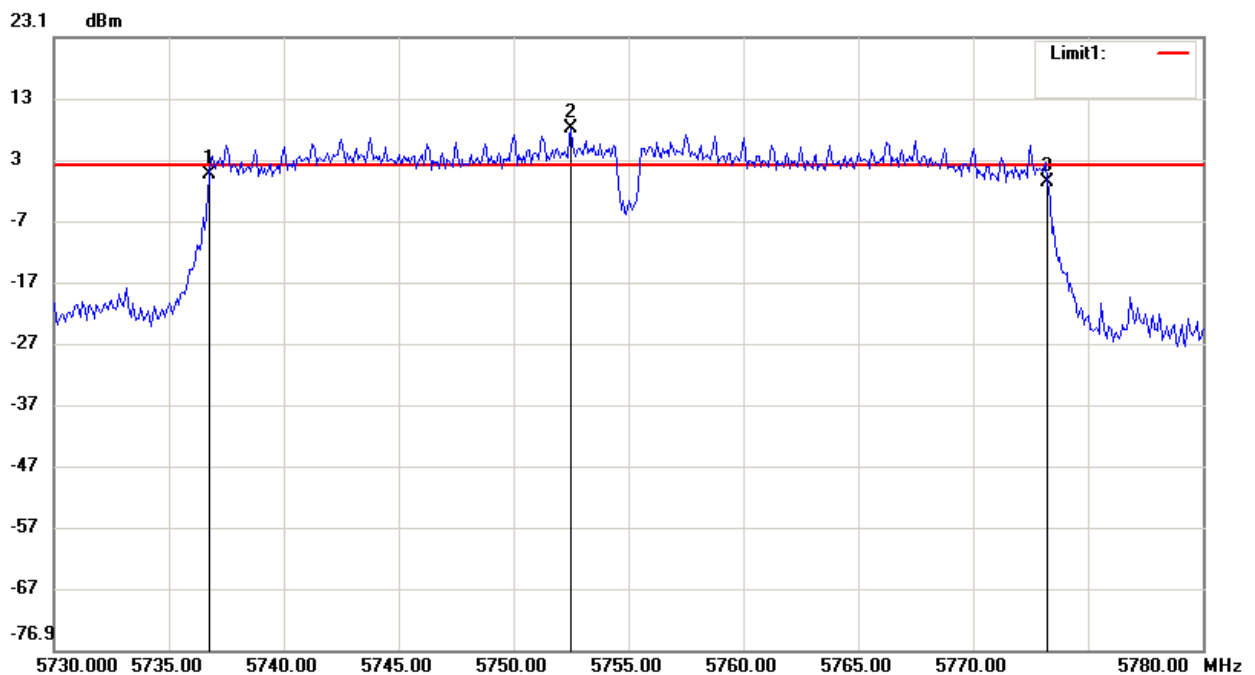
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Table 20: Test result of 6dB Bandwidth & 99% Bandwidth, 802.11an, HT40

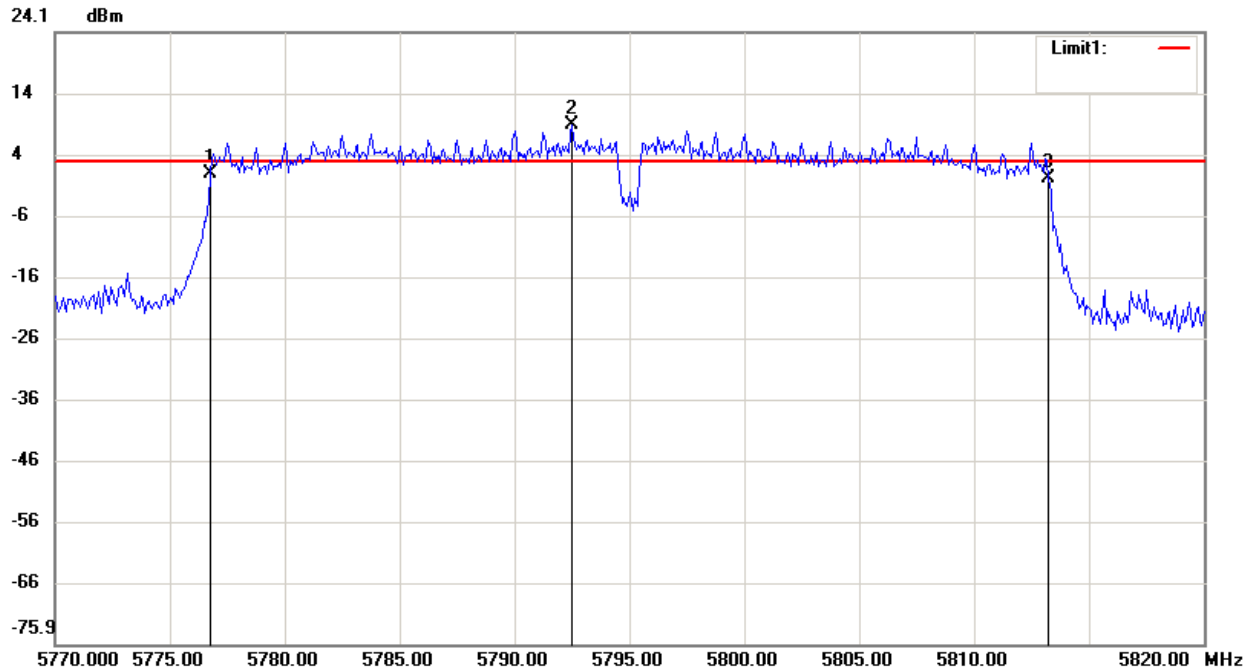
| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|---------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 5755 | 36.500 | 36.500 | 36.432 | 36.451 | 500kHz |
| High Channel | 5795 | 36.500 | 36.500 | 36.267 | 36.390 | 500kHz |



| | | |
|-------------------|---------------------------------------|-------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5736.75000 | 0.65 |
| 2 | 5752.50000 | 8.16 |
| 3 | 5773.25000 | -0.52 |

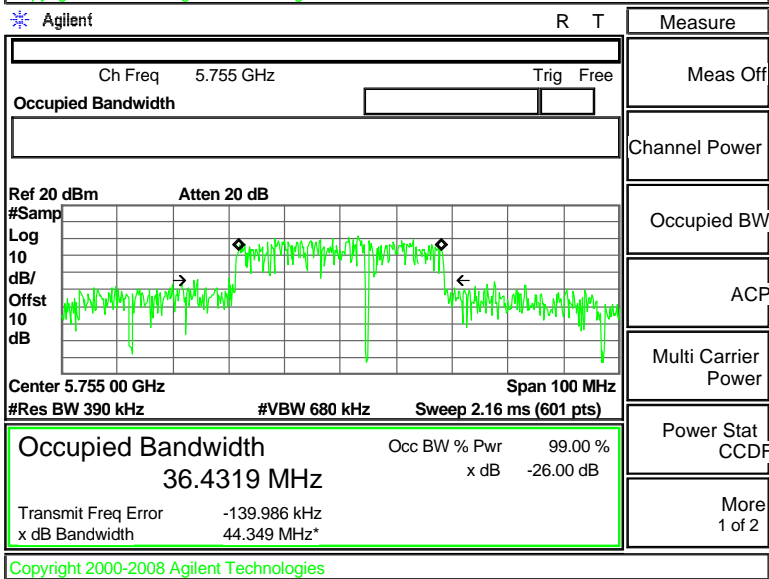
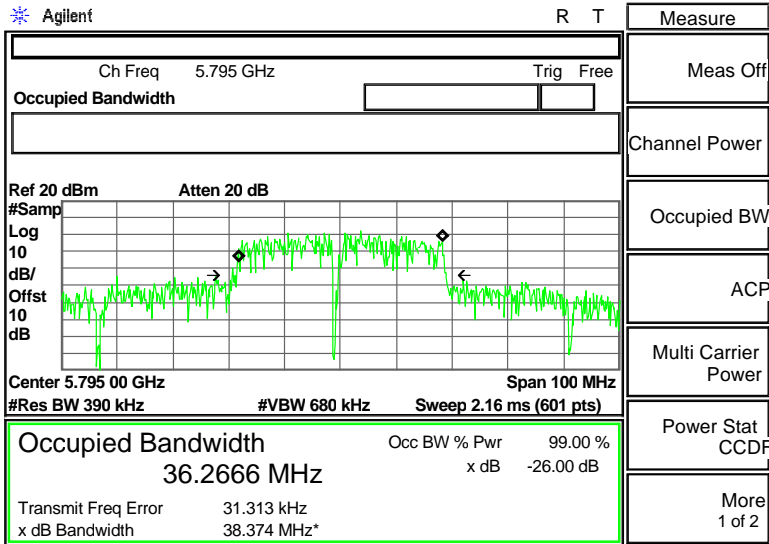
| No. | | ΔFrequency(MHz) | ΔLevel(dB) |
|-----|---------|-----------------|------------|
| 1 | mk3-mk1 | 36.5 | -1.17 |

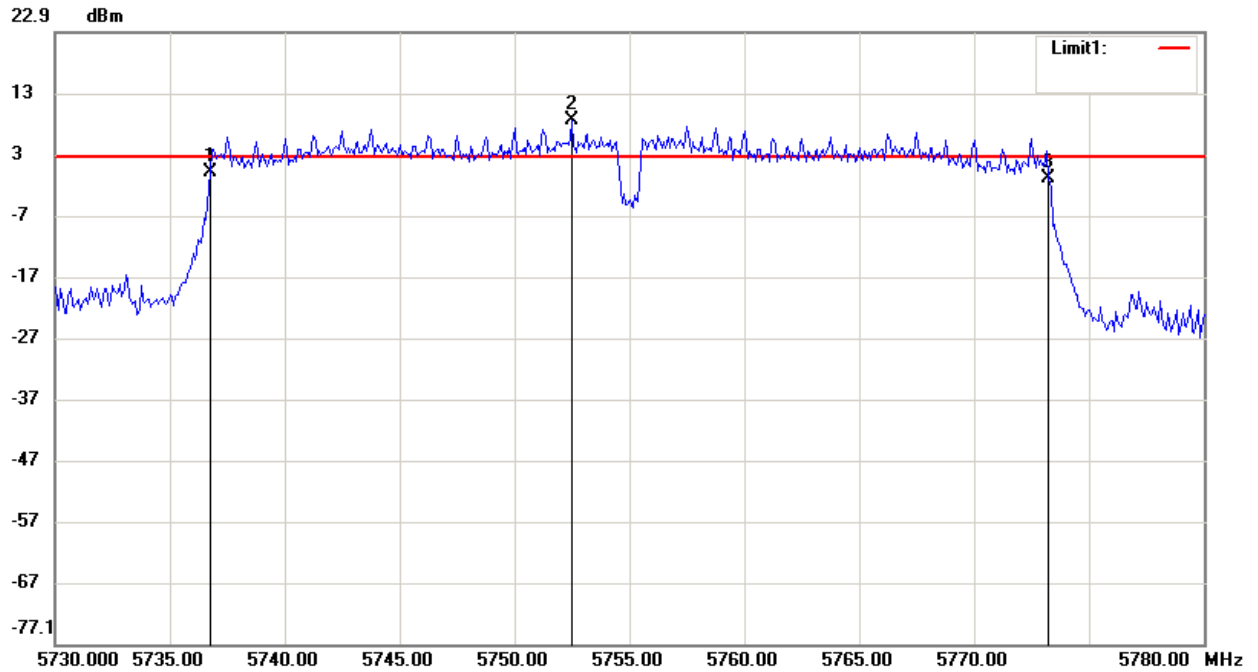


| | | |
|-------------------|---------------------------------------|-------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5776.75000 | 0.98 |
| 2 | 5792.50000 | 9.02 |
| 3 | 5813.25000 | 0.27 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.5 | -0.71 |

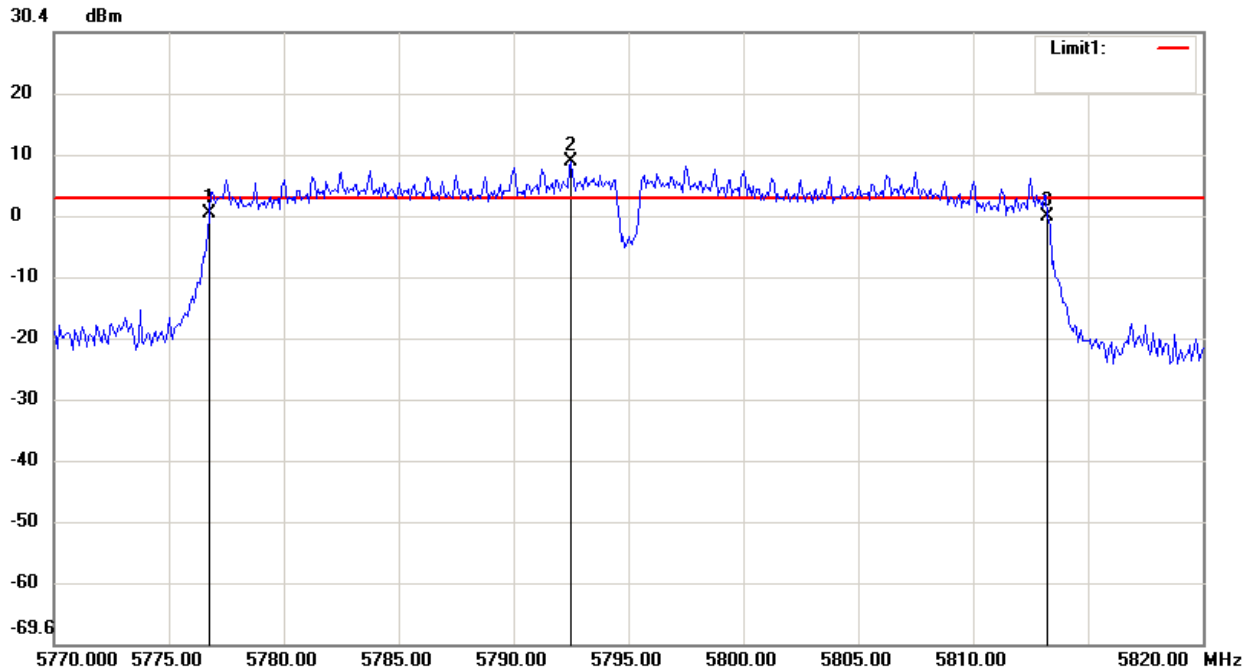




| | | |
|-------------------|---------------------------------------|------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5736.75000 | 0.07 |
| 2 | 5752.50000 | 8.40 |
| 3 | 5773.25000 | -1.01 |

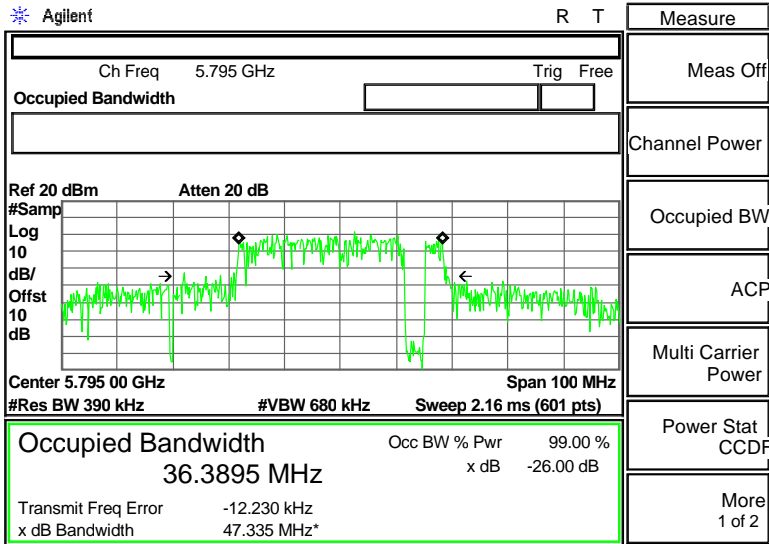
| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.5 | -1.08 |



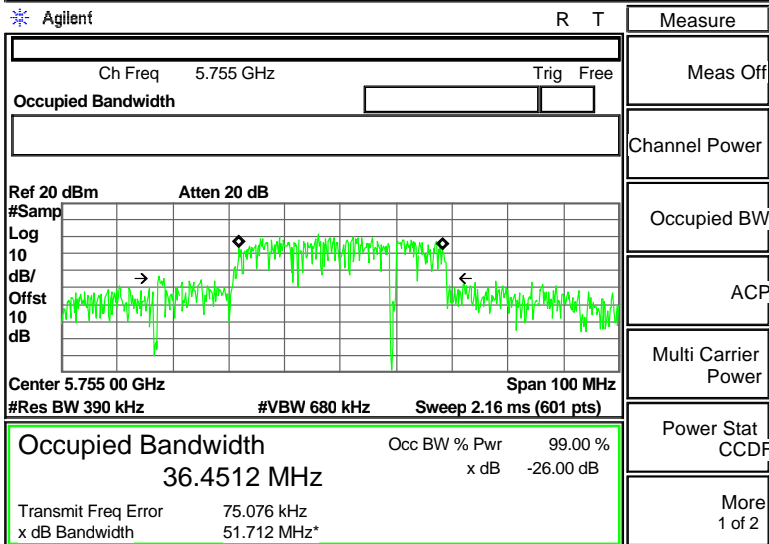
| | | |
|-------------------|---------------------------------------|------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 40dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-6dB EBW | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5776.75000 | 0.77 |
| 2 | 5792.50000 | 9.30 |
| 3 | 5813.25000 | 0.28 |

| No. | | Δ Frequency(MHz) | Δ Level(dB) |
|-----|---------|-------------------------|--------------------|
| 1 | mk3-mk1 | 36.5 | -0.49 |



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5.1.4 Conducted Spurious Emissions in 100kHz Bandwidth

RESULT:**Passed**

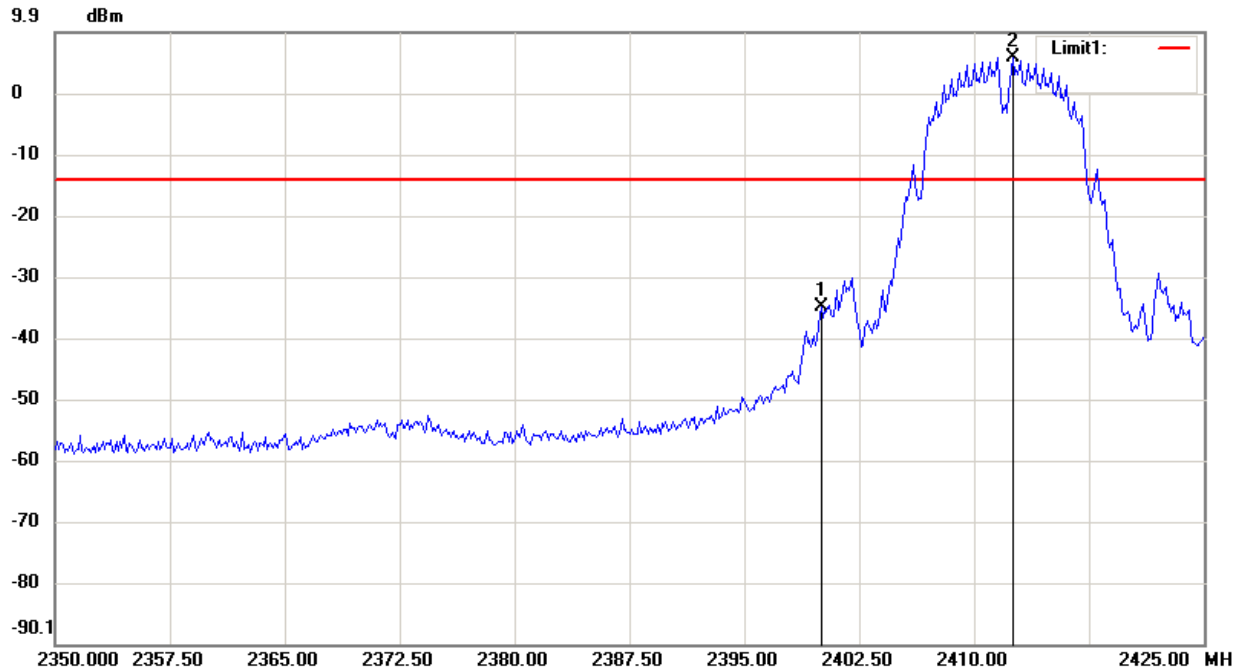
| | | |
|-------------------|---|--|
| Date of testing | : | 2010-12-29 to 2011-01-10 |
| Test standard | : | FCC part 15.247(d) RSS-210 A8.5 |
| Basic standard | : | ANSI C63.4: 2003 |
| Limit | : | 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a) |
| Kind of test site | : | Shield room |

Test setup

| | | |
|----------------------|---|-------------------|
| Test Channel | : | Low/ Middle/ High |
| Operation mode | : | A |
| Ambient temperature | : | 20°C |
| Relative humidity | : | 56% |
| Atmospheric pressure | : | 101.0 kPa |

All Frequency bands were investigated, and all out-of-band conducted emissions were more than 20dB below the carrier.

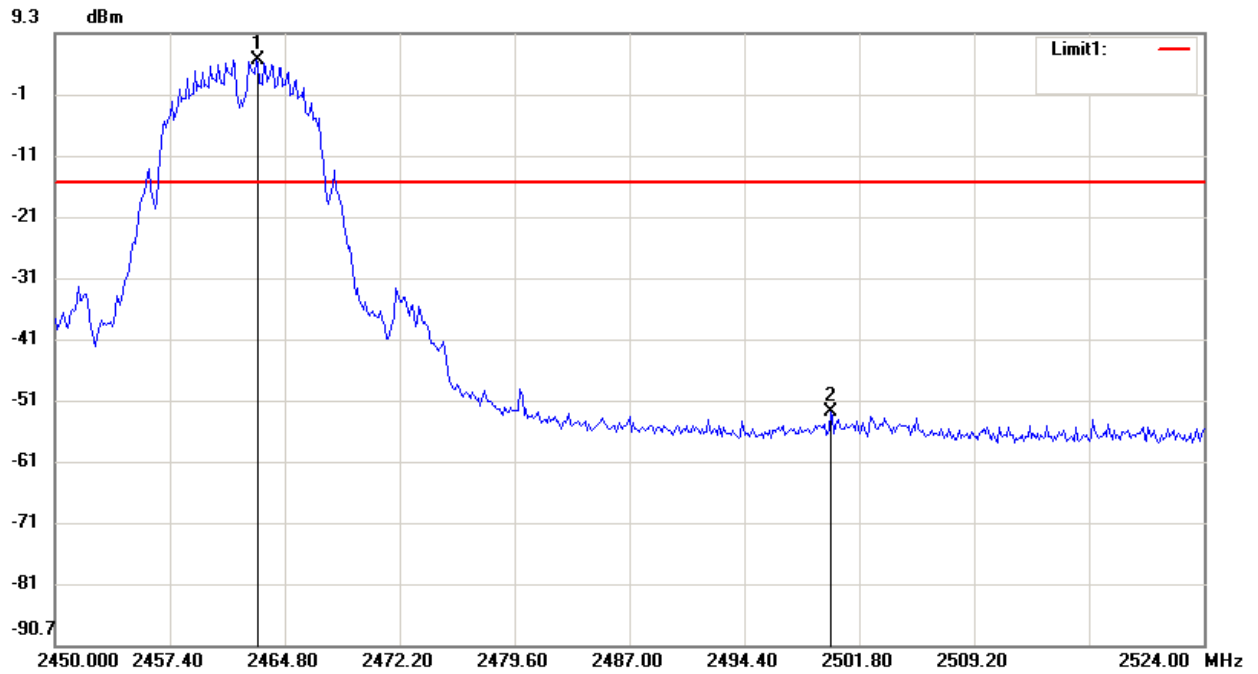
Refer to following pages for details.



Condition: 802.11b
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11b Channel 01-Bandedge

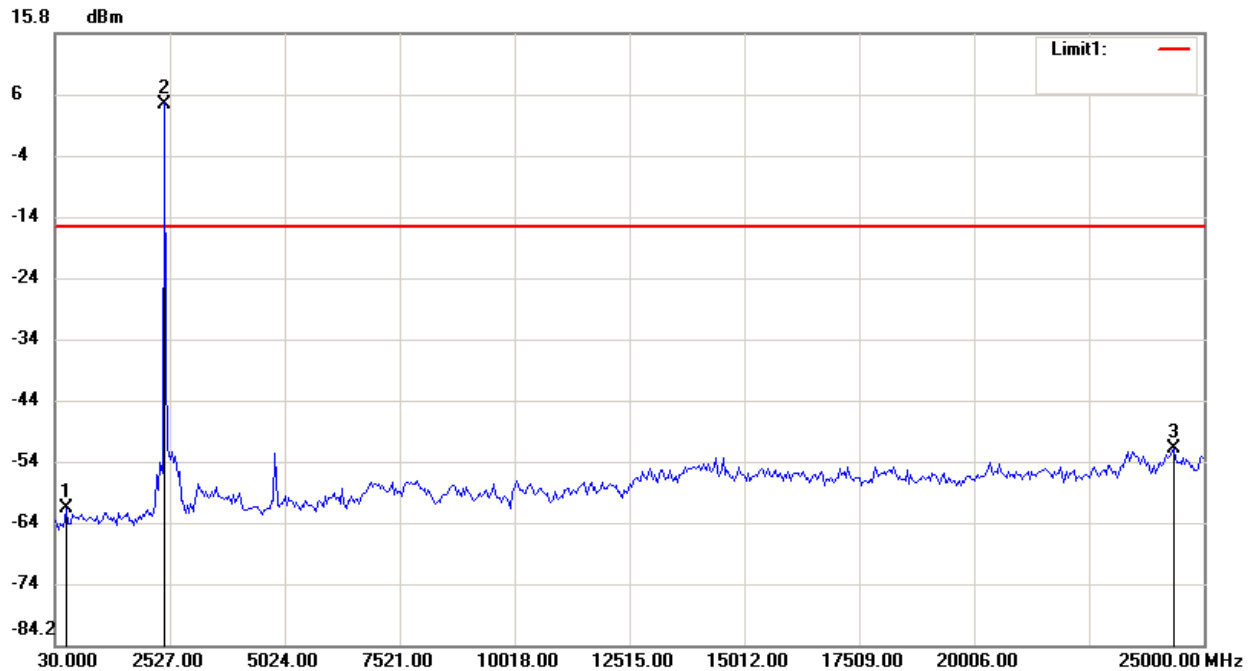
RF Conducted
Sweep Time: 500ms **Att.:** 10dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2400.00000 | -34.88 |
| 2 | 2412.50000 | 5.75 |



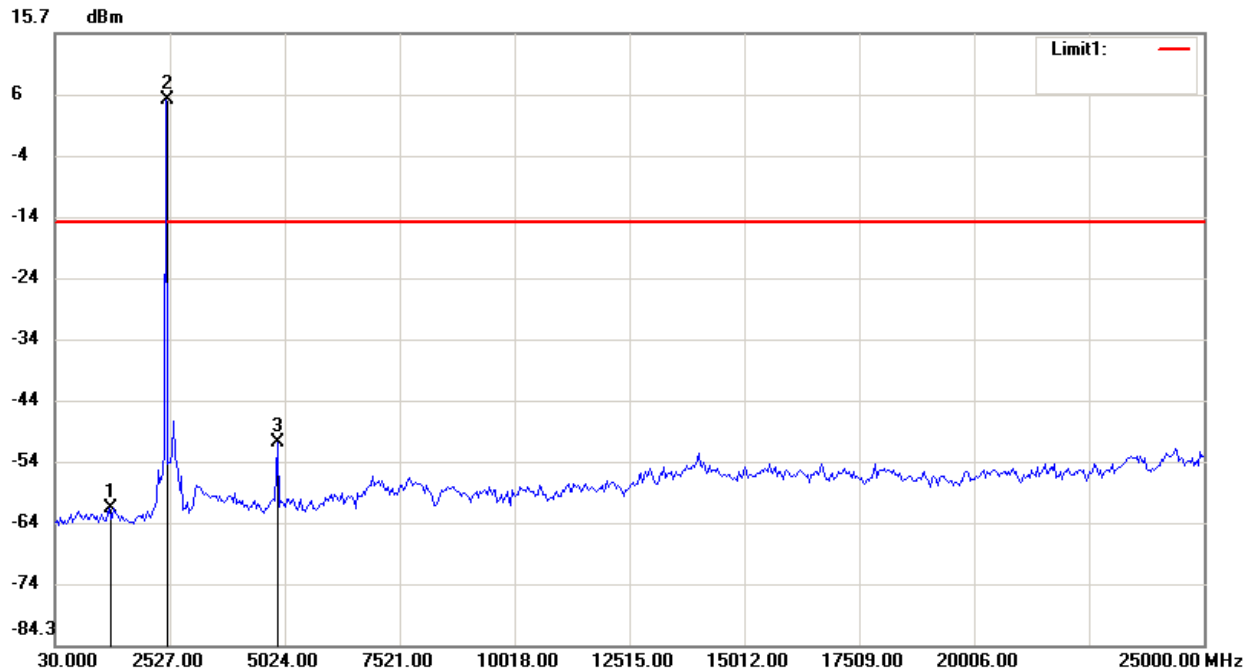
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11b | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11b Channel 11-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2462.95000 | 4.86 |
| 2 | 2499.95000 | -52.60 |



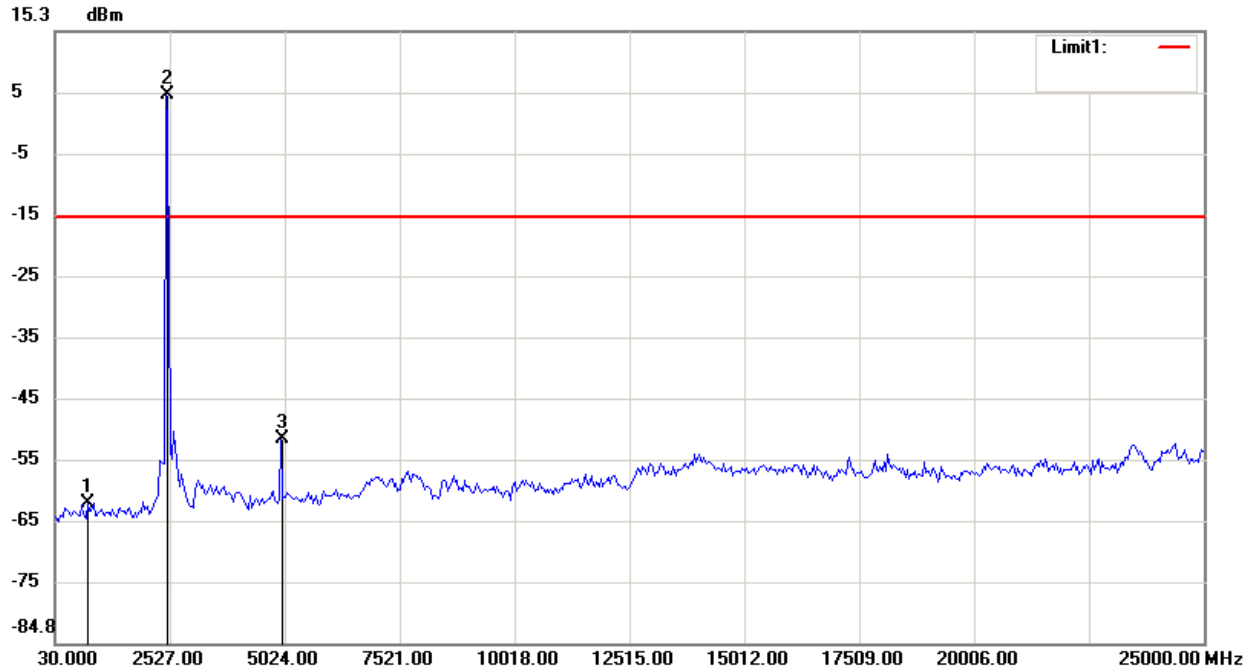
| | | |
|-------------------|--|--|
| Condition: | 802.11b | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11b Channel 01-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 279.7000 | -61.76 |
| 2 | 2402.15000 | 4.35 |
| 3 | 24334.13330 | -52.11 |



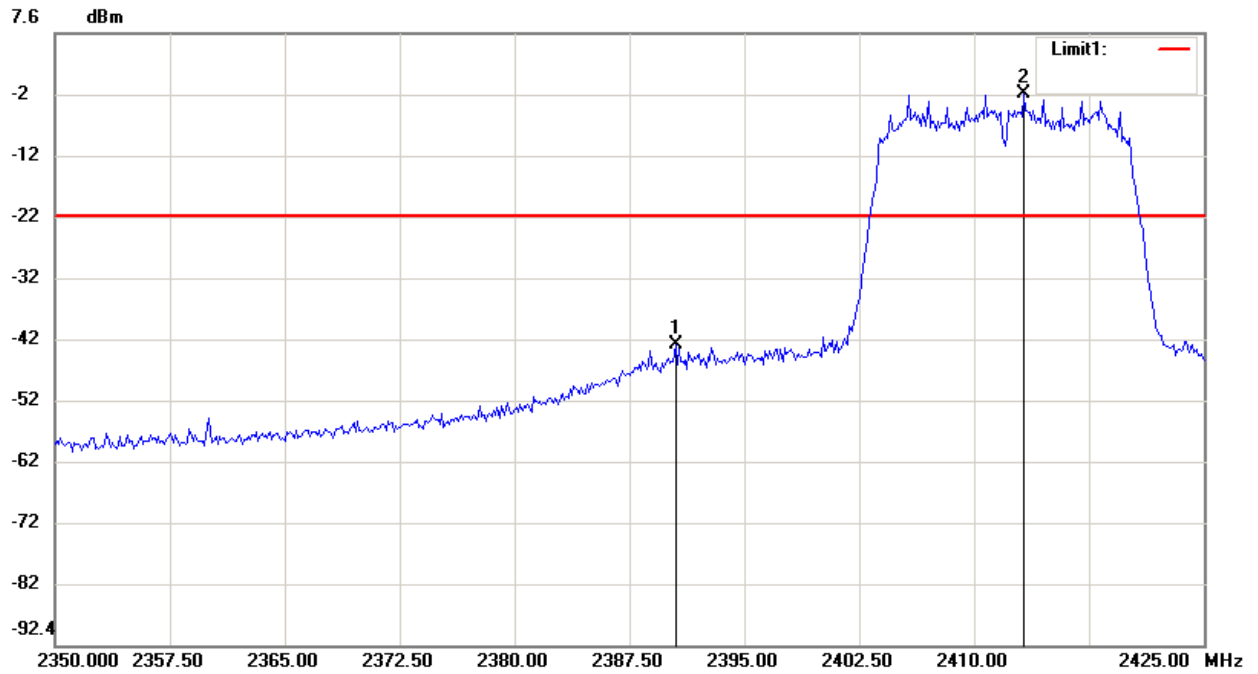
Condition: 802.11b **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 2386.4ms Att.: 20dB**
Model: RF-HTN102 **RBW: 100 KHz VBW: 300 KHz**
Test Mode: Transmitting
Note: FCC-802.11b Channel 06-Conducted Spurious

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1195.26670 | -61.99 |
| 2 | 2443.76670 | 4.82 |
| 3 | 4857.53330 | -51.10 |



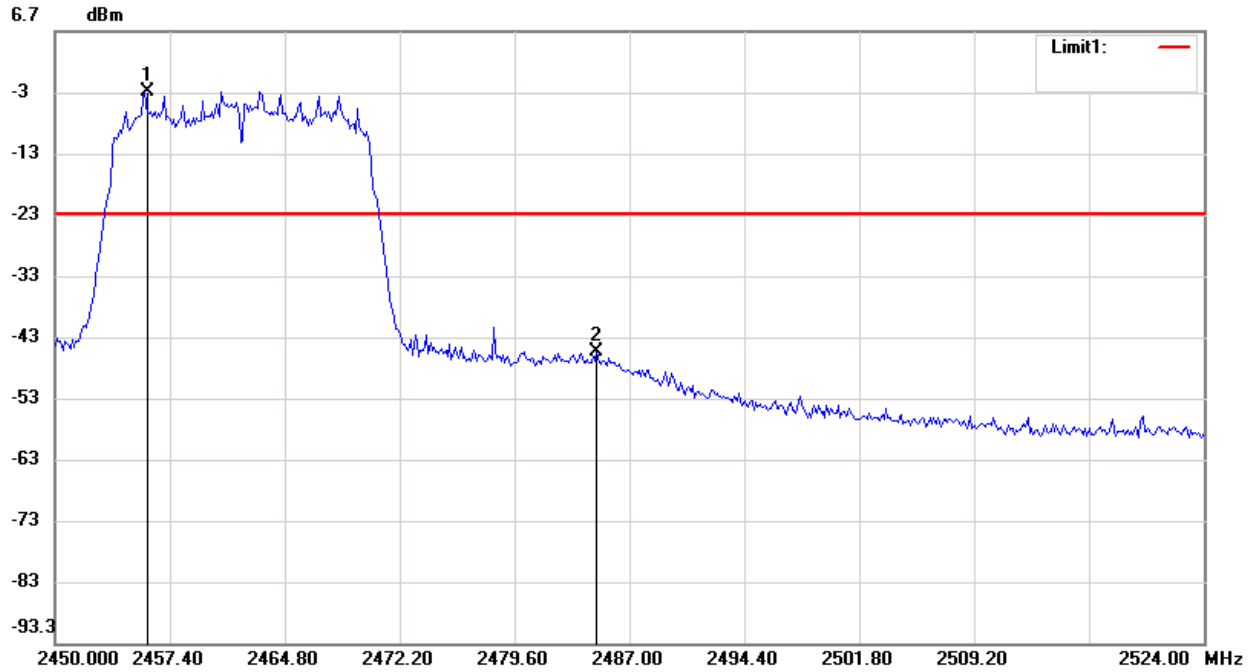
| | | |
|-------------------|--|--|
| Condition: | 802.11b | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11b Channel 11-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 737.4833 | -61.89 |
| 2 | 2443.76670 | 4.85 |
| 3 | 4940.76670 | -51.36 |



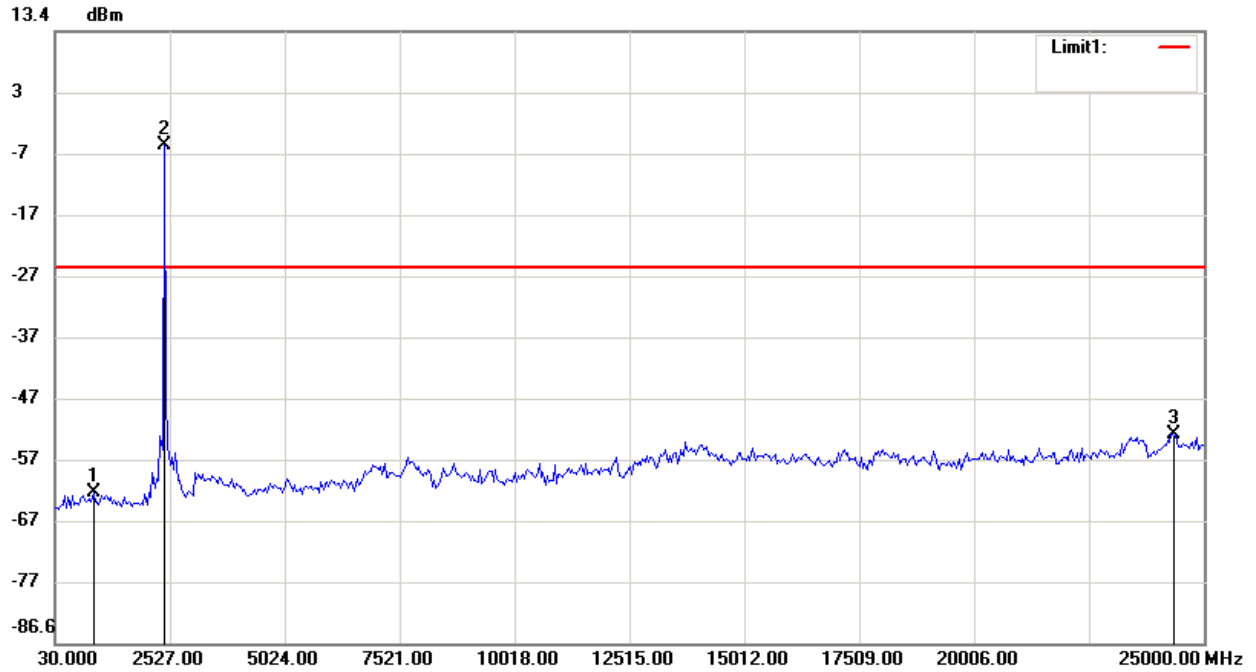
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11g Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 01-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2390.50000 | -43.38 |
| 2 | 2413.25000 | -2.25 |



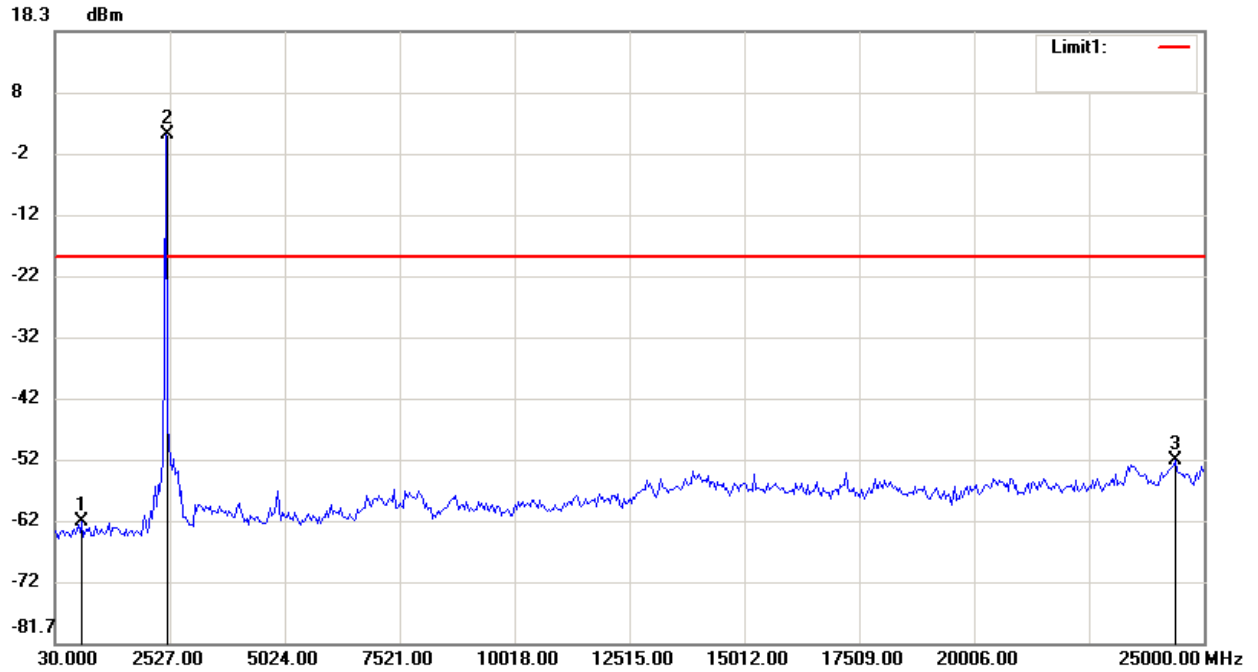
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11g Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 11-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2455.79670 | -3.03 |
| 2 | 2484.90330 | -45.74 |



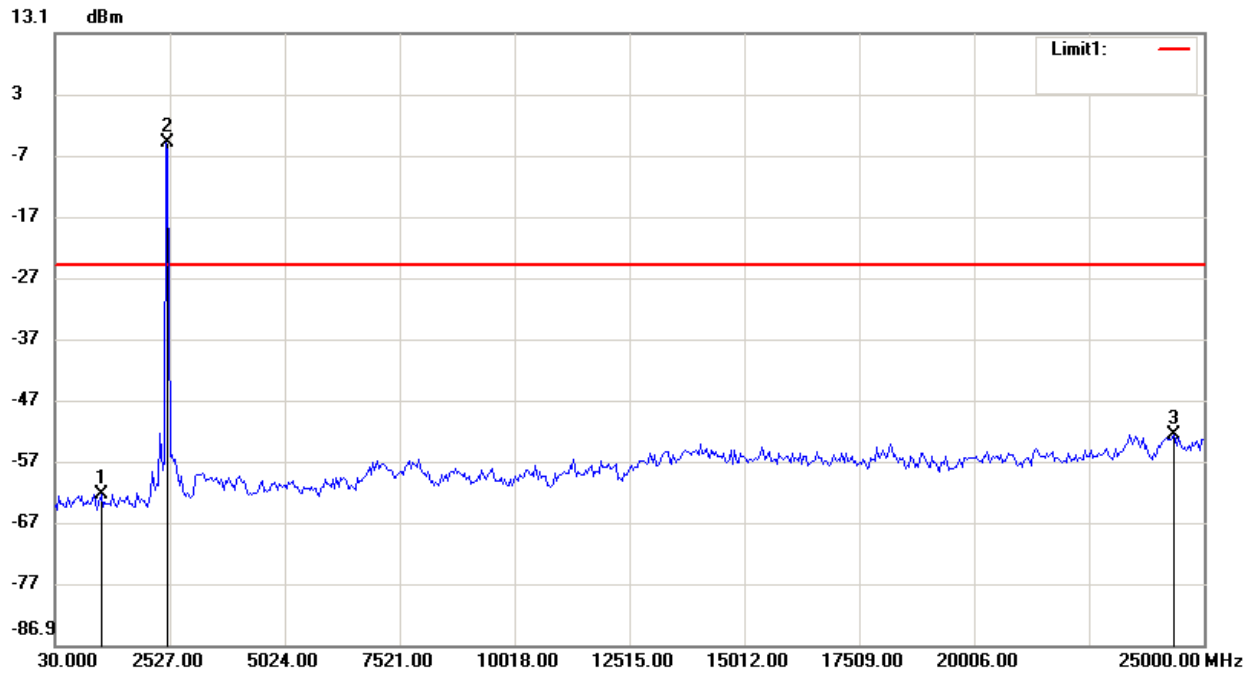
| | | |
|-------------------|--|--|
| Condition: | 802.11g Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 01-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 862.3333 | -62.00 |
| 2 | 2402.15000 | -5.30 |
| 3 | 24292.51670 | -52.46 |



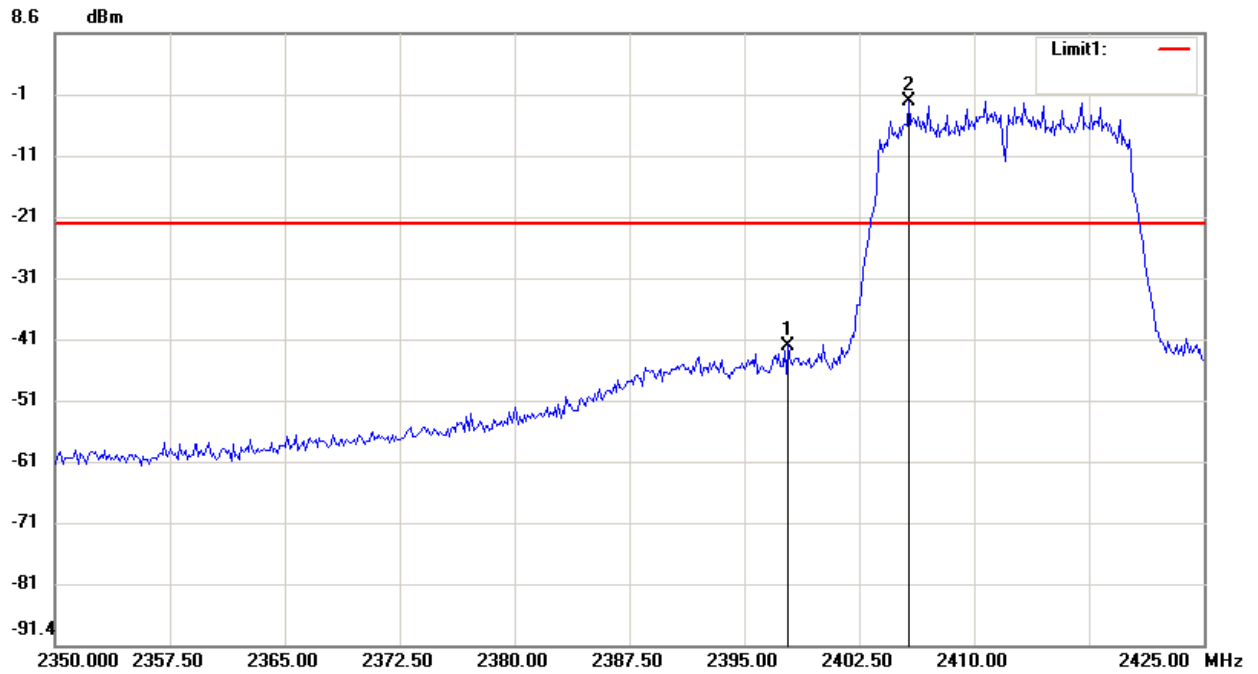
| | | |
|-------------------|--|--|
| Condition: | 802.11g Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 06-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 612.6333 | -61.70 |
| 2 | 2443.76670 | 1.53 |
| 3 | 24375.75000 | -51.74 |



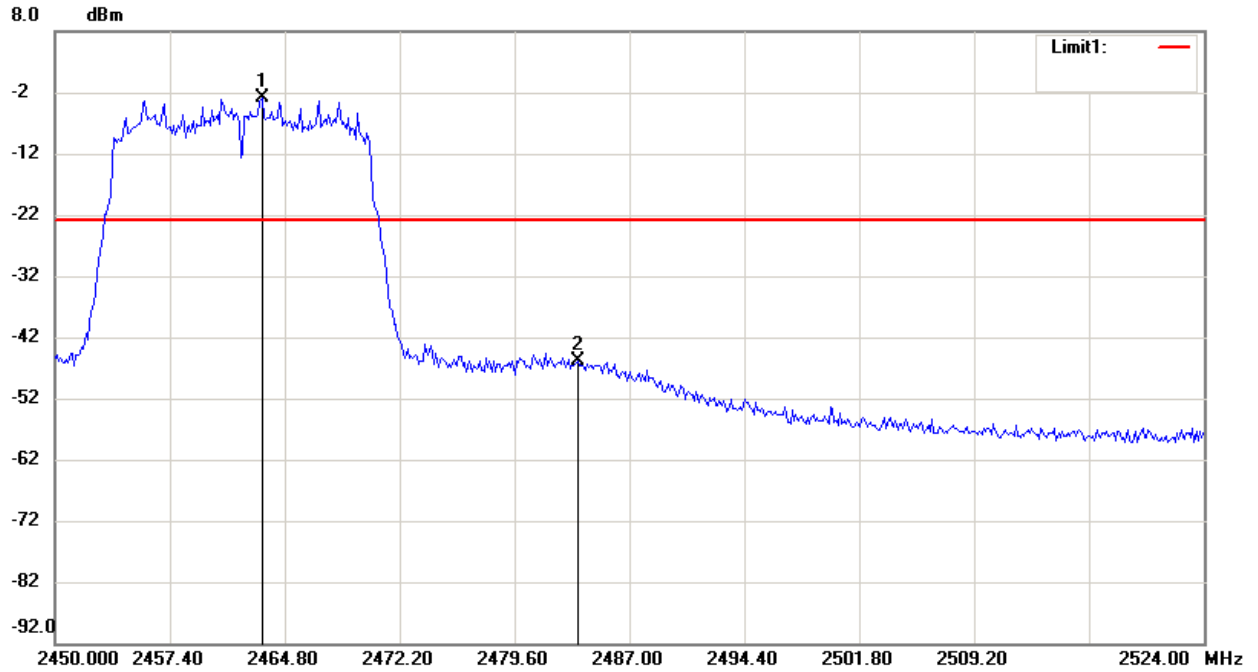
Condition: 802.11g Chain 0 RF Conducted
 EUT: Wi-Fi Invite Home Hub Sweep Time: 2386.4ms Att.: 20dB
 Model: RF-HTN102 RBW: 100 KHz VBW: 300 KHz
 Test Mode: Transmitting
 Note: FCC-802.11g Channel 11-Conducted Spurious

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1028.80000 | -62.15 |
| 2 | 2443.76670 | -4.83 |
| 3 | 24334.13330 | -52.38 |



| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11g Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 01-Bandedge | |

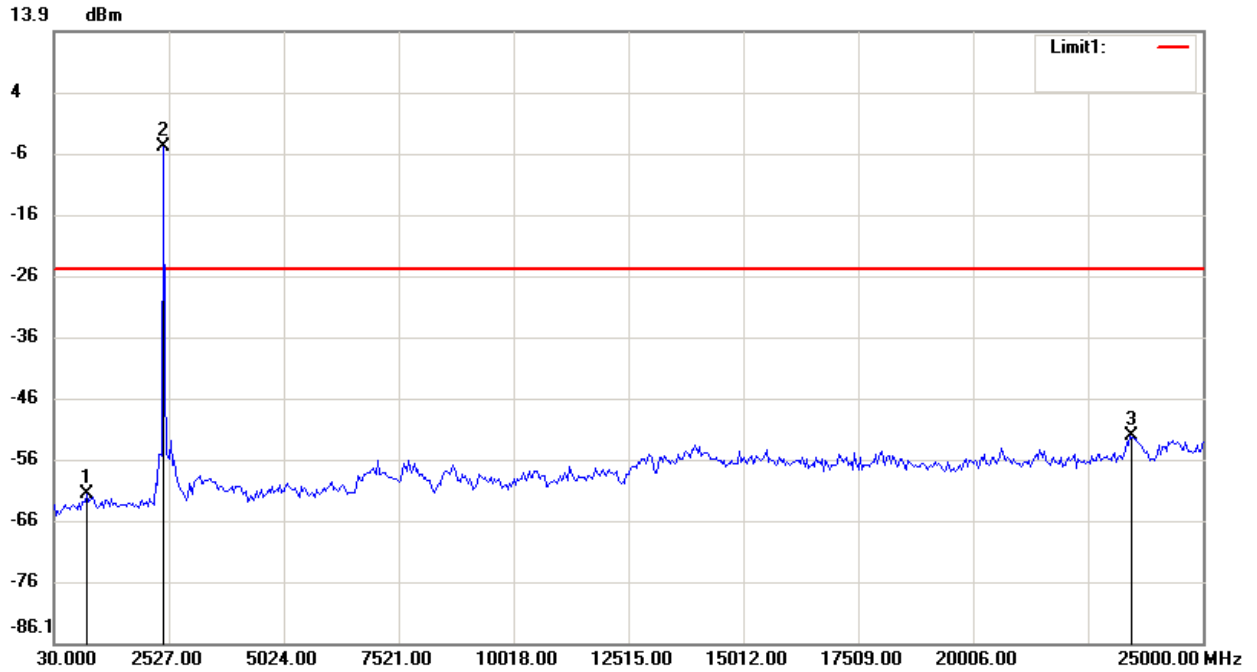
| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2397.87500 | -42.41 |
| 2 | 2405.75000 | -2.62 |



Condition: 802.11g Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11g Channel 11-Bandedge

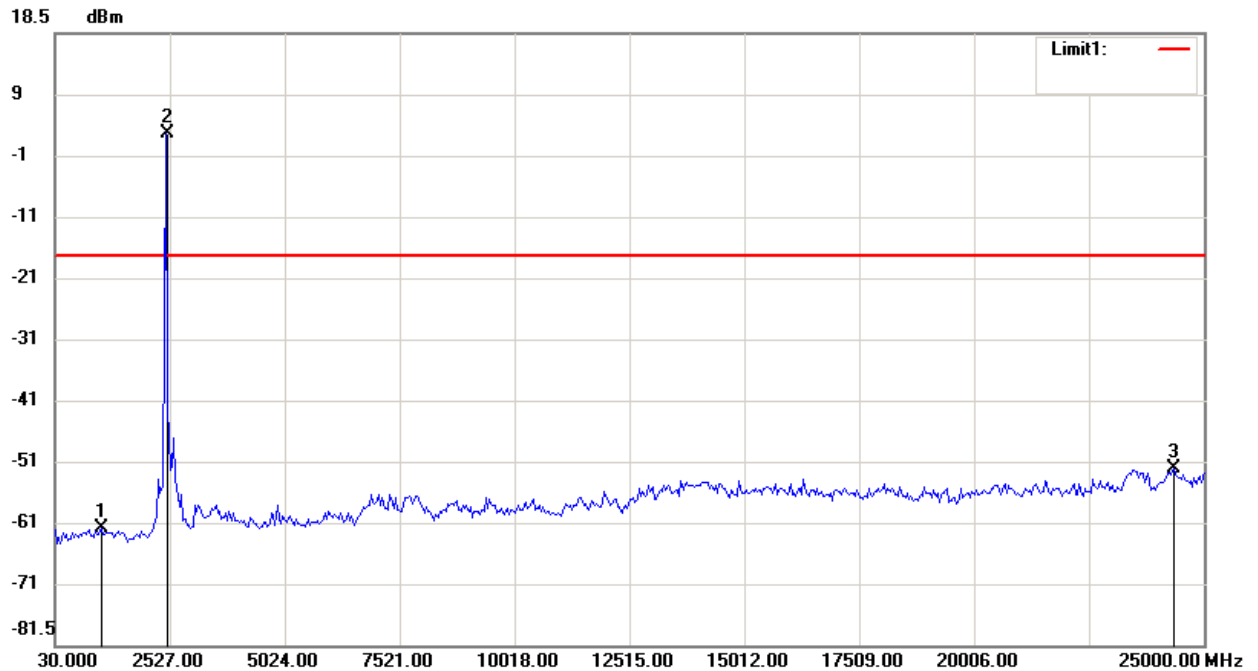
RF Conducted
Sweep Time: 500ms **Att.:** 10dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2463.32000 | -2.87 |
| 2 | 2483.67000 | -45.99 |



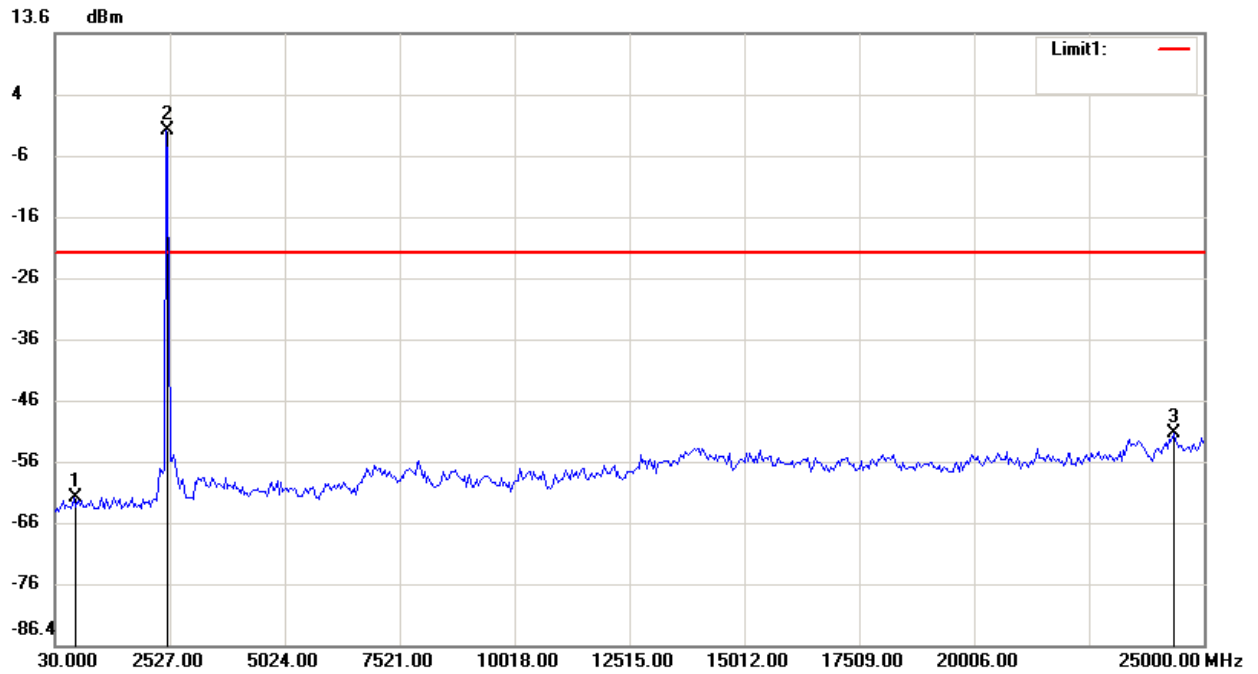
| | | |
|-------------------|--|--|
| Condition: | 802.11g Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 01-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 737.4833 | -61.78 |
| 2 | 2402.15000 | -5.02 |
| 3 | 23418.56670 | -52.12 |



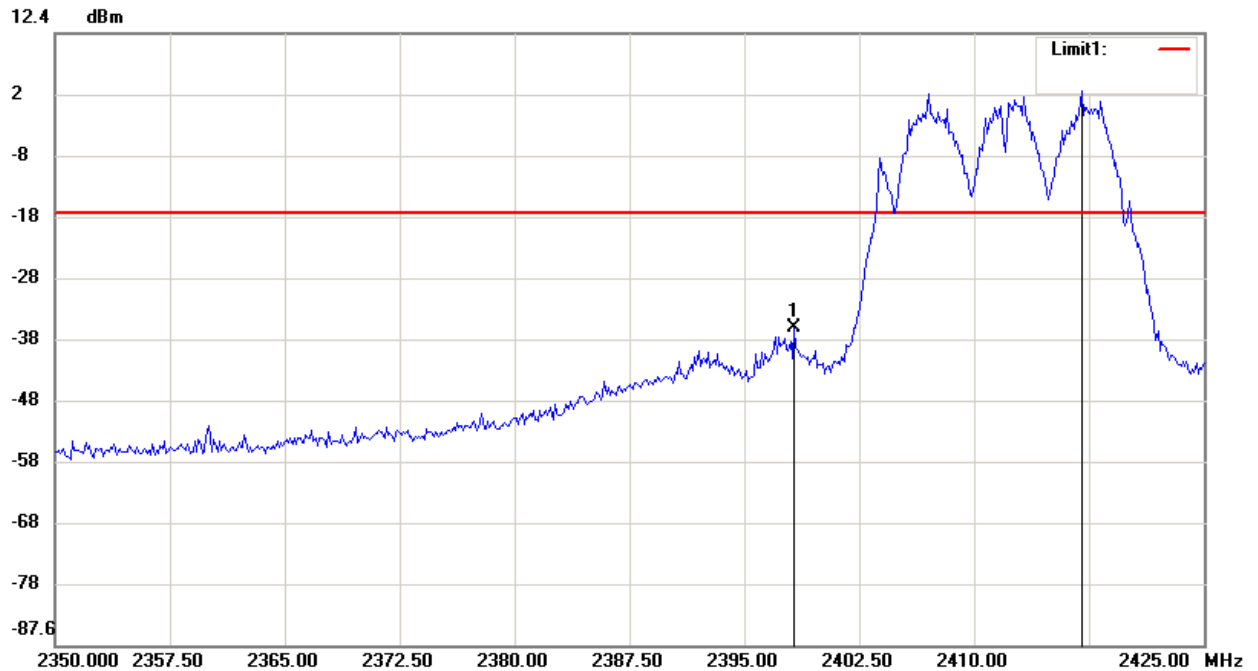
| | | |
|-------------------|--|--|
| Condition: | 802.11g Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 06-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1028.80000 | -62.40 |
| 2 | 2443.76670 | 2.12 |
| 3 | 24334.13330 | -52.62 |



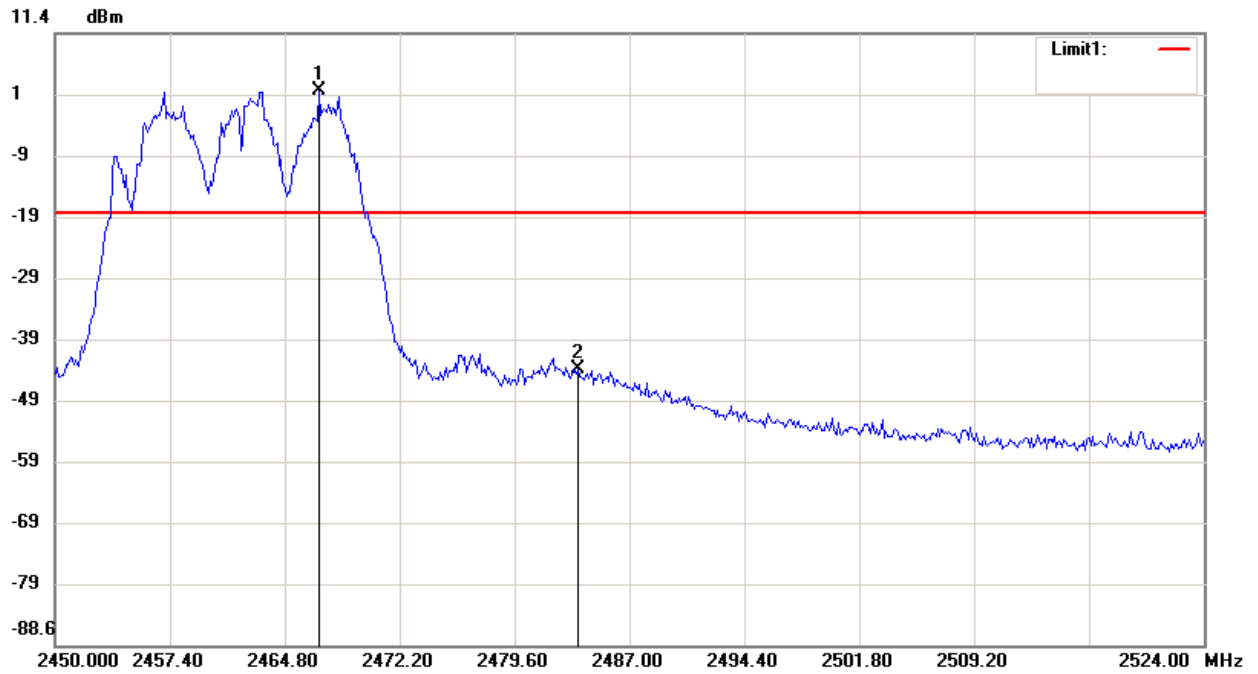
| | | |
|-------------------|--|--|
| Condition: | 802.11g Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 11-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 446.1667 | -62.24 |
| 2 | 2443.76670 | -2.26 |
| 3 | 24334.13330 | -51.90 |



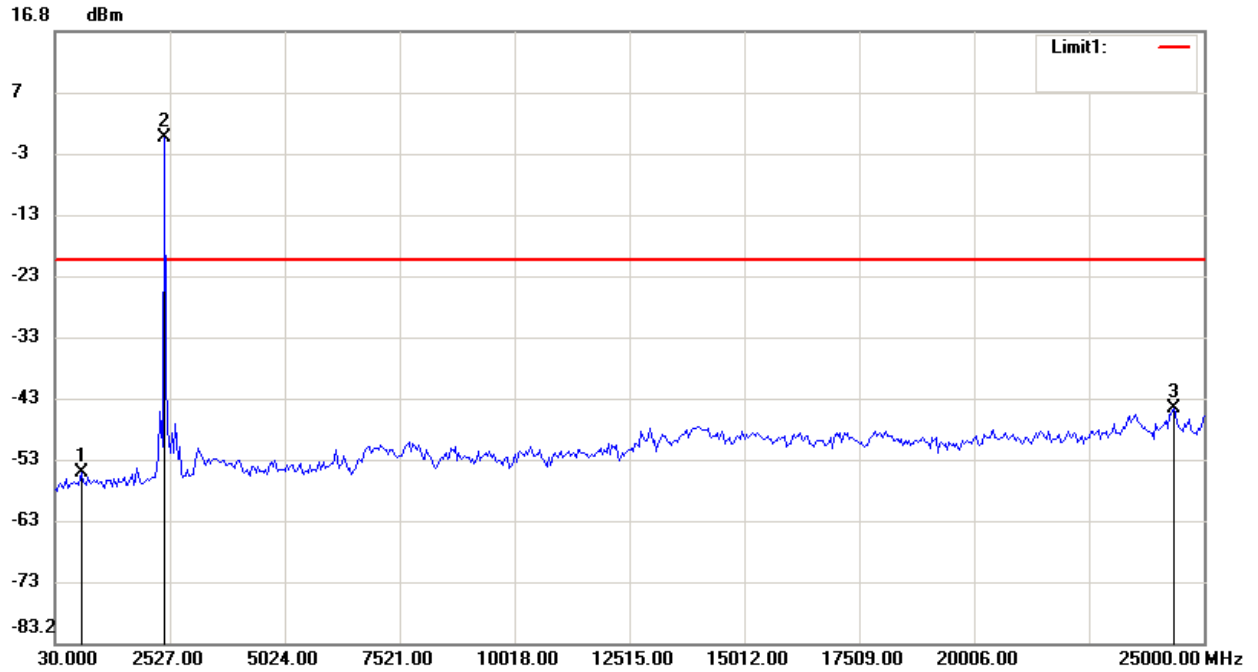
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11g Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2398.25000 | -35.65 |
| 2 | 2417.00000 | 3.08 |



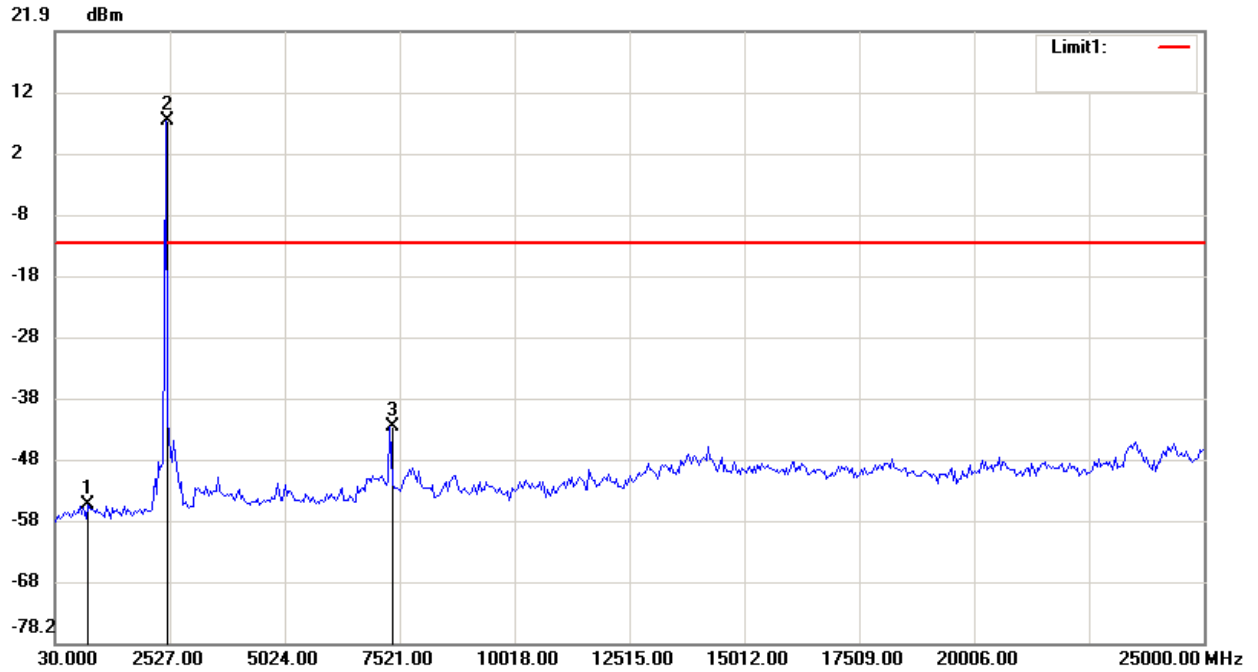
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11g Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2467.02000 | 2.17 |
| 2 | 2483.67000 | -43.44 |



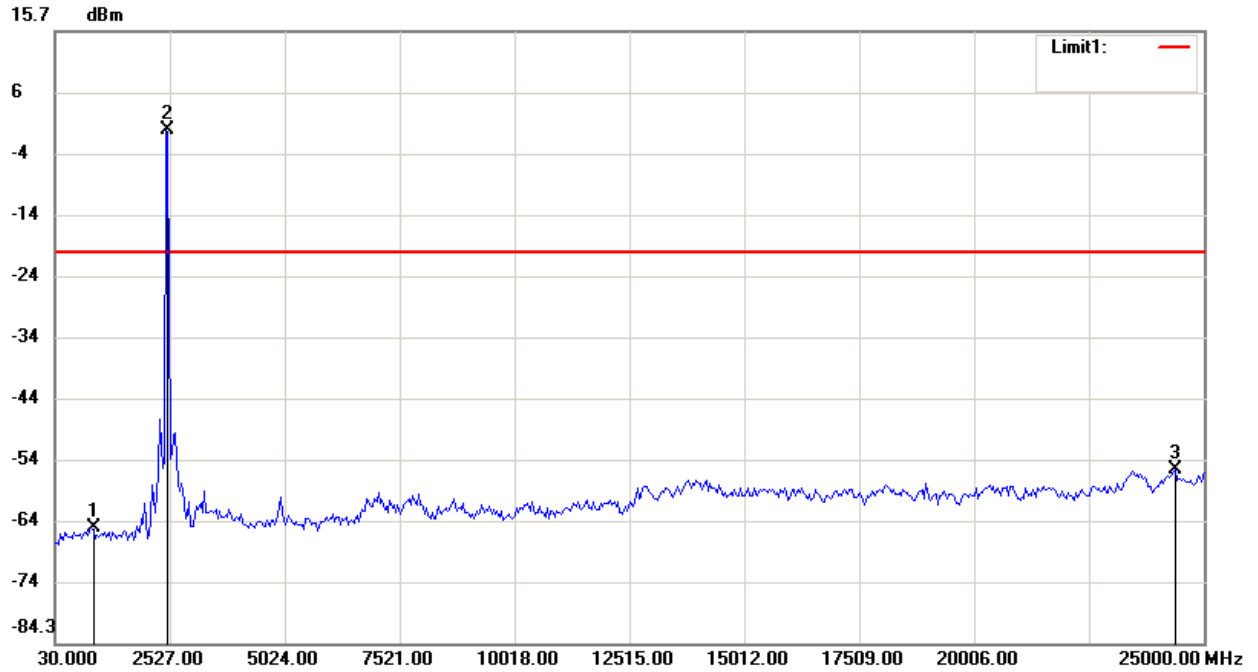
| | | |
|-------------------|--|--|
| Condition: | 802.11g Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 612.6333 | -55.24 |
| 2 | 2402.15000 | -0.56 |
| 3 | 24334.13330 | -44.96 |



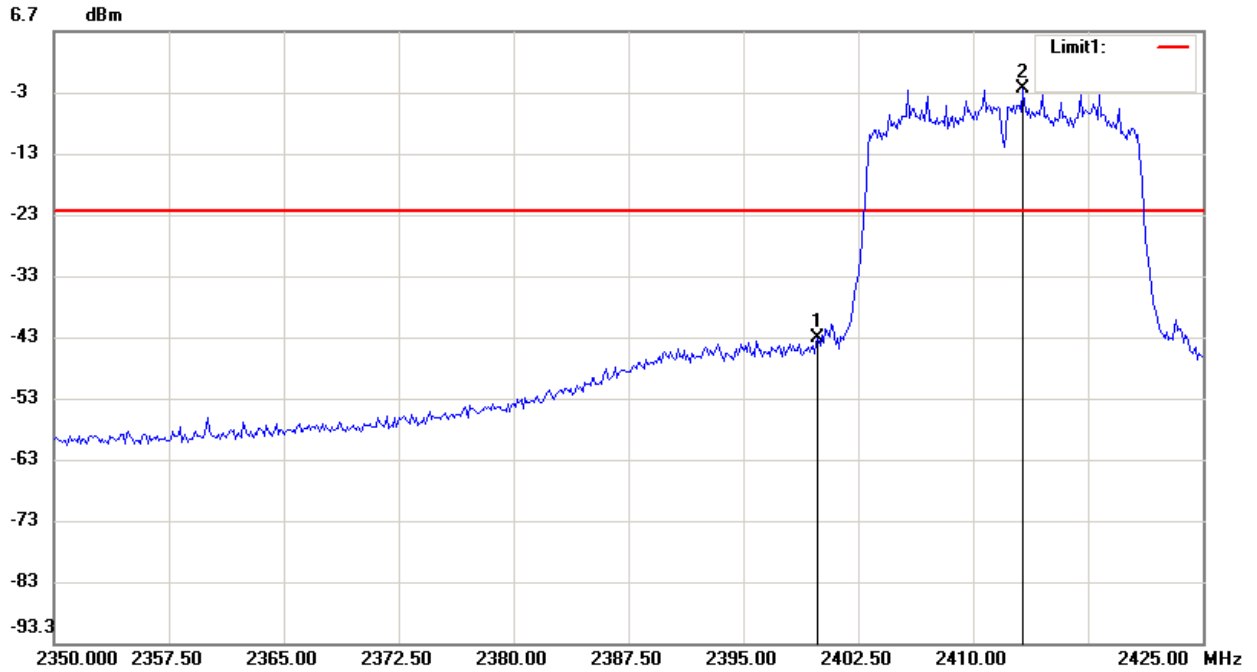
Condition: 802.11g Chain 0+Chain 1 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time:** 2386.4ms **Att.:** 20dB
Model: RF-HTN102 **RBW:** 100 KHz **VBW:** 300 KHz
Test Mode: Transmitting
Note: FCC-802.11gn_HT20 Channel 06-Conducted Spurious

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 737.4833 | -55.62 |
| 2 | 2443.76670 | 7.30 |
| 3 | 7312.91670 | -42.87 |



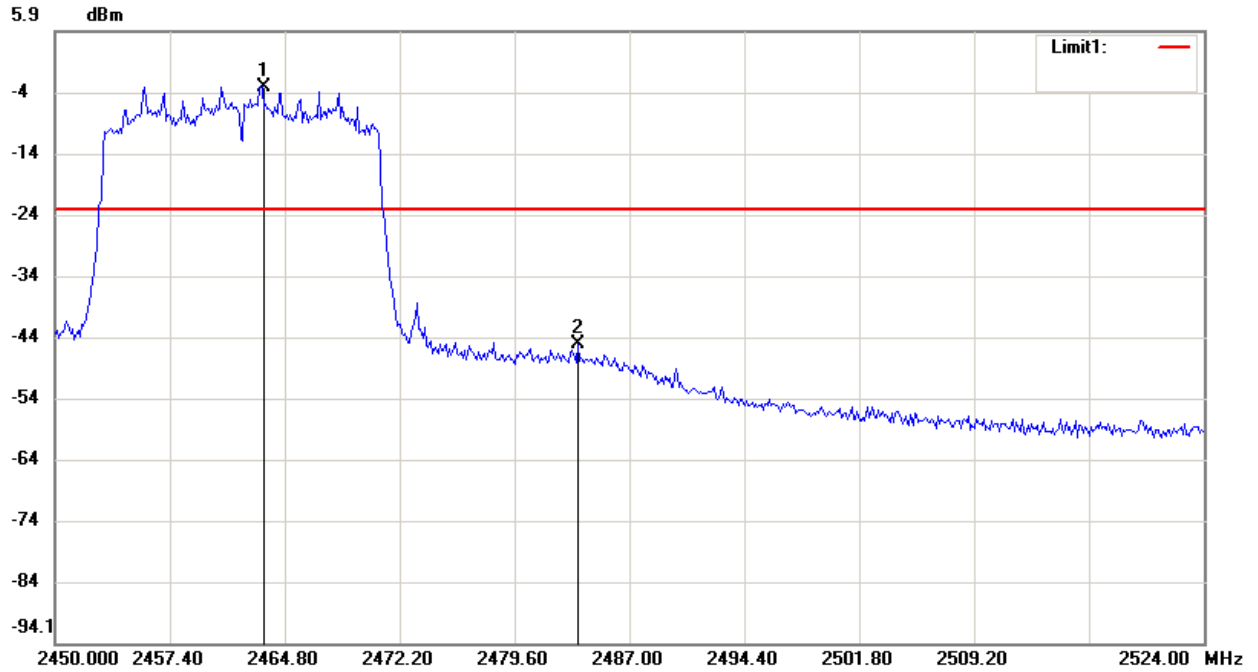
| | | |
|-------------------|--|--|
| Condition: | 802.11g Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 820.7167 | -65.45 |
| 2 | 2443.76670 | -0.34 |
| 3 | 24375.75000 | -56.08 |



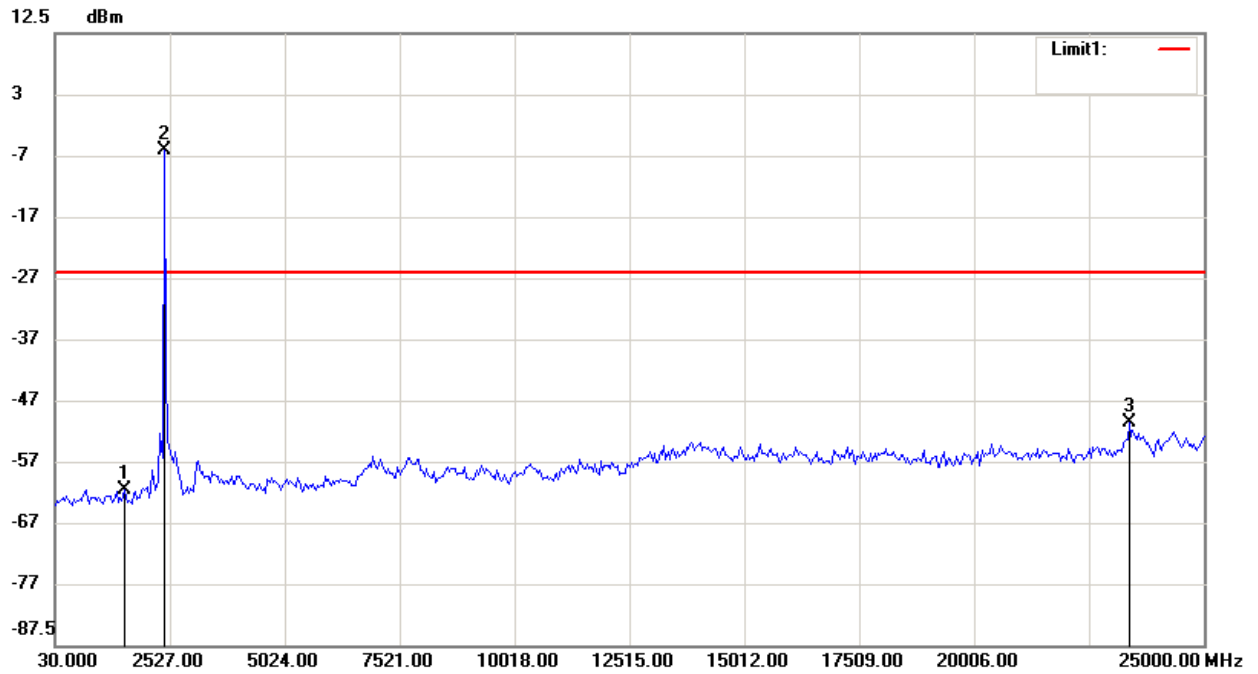
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2399.87500 | -43.39 |
| 2 | 2413.25000 | -2.77 |



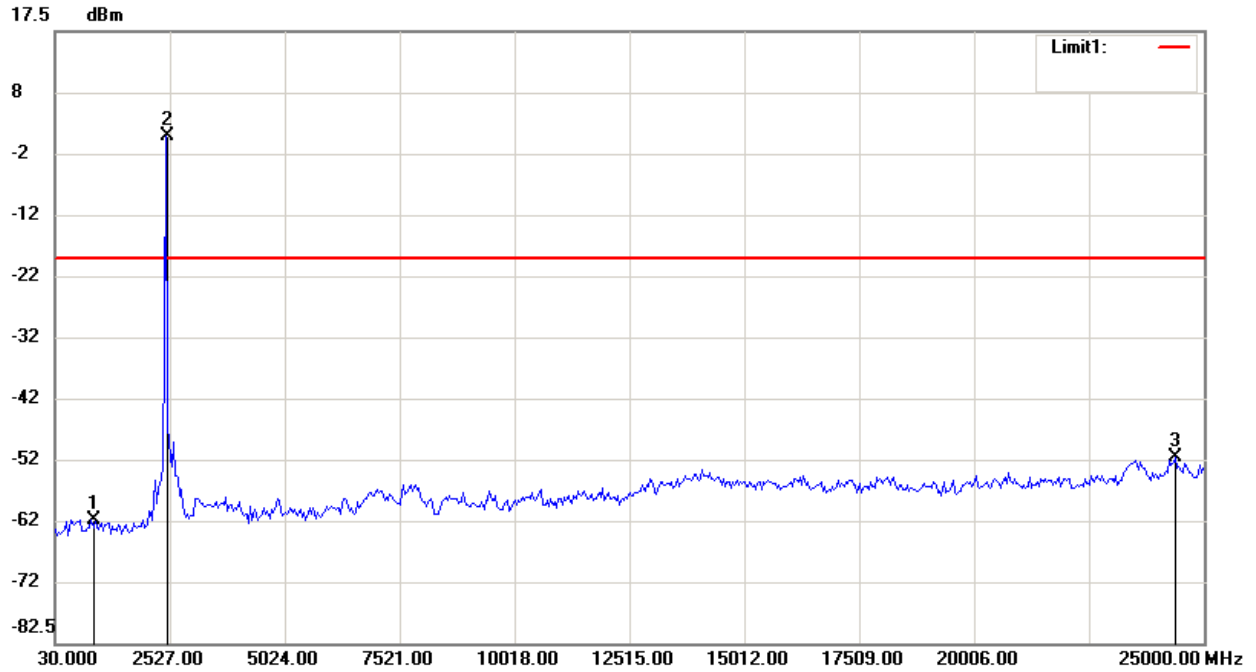
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2463.32000 | -3.09 |
| 2 | 2483.67000 | -45.20 |



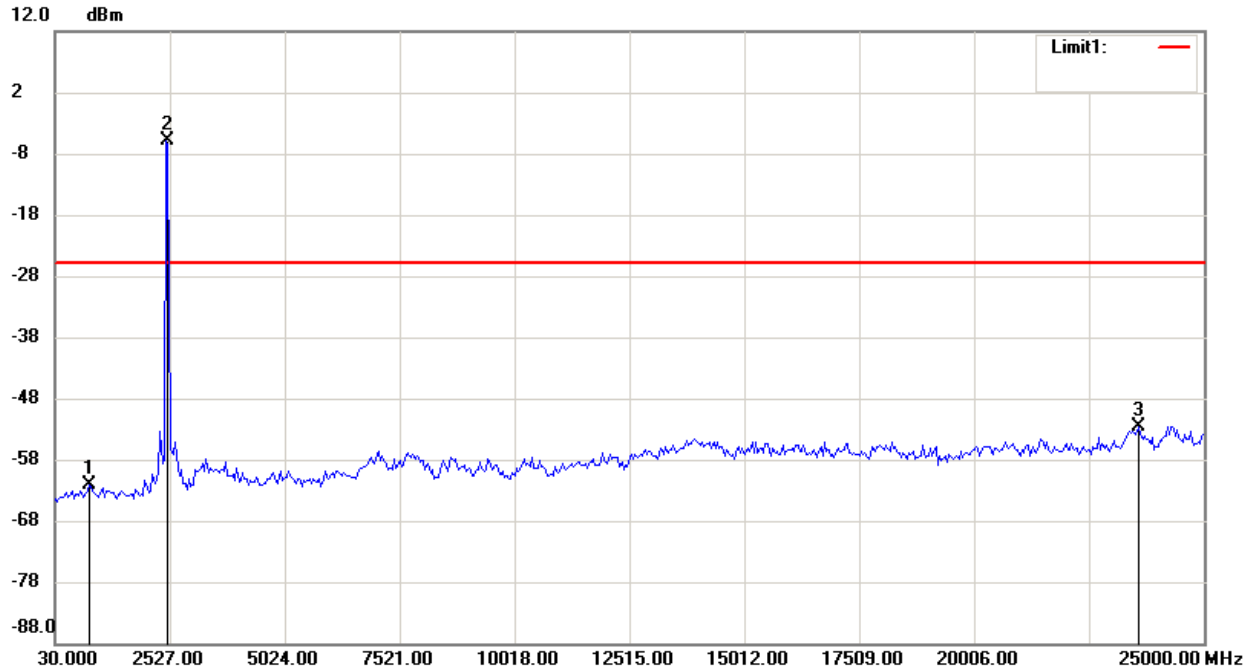
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1528.20000 | -61.99 |
| 2 | 2402.15000 | -6.54 |
| 3 | 23376.95000 | -51.02 |



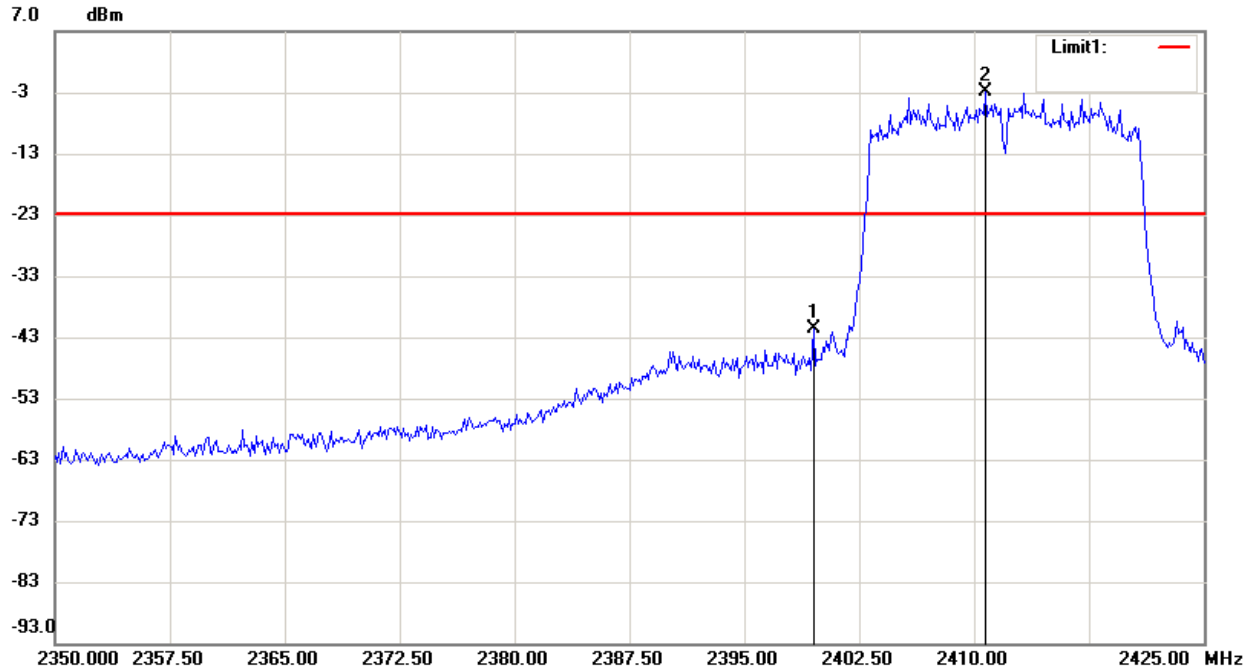
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 06-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 820.7167 | -62.26 |
| 2 | 2443.76670 | 0.31 |
| 3 | 24375.75000 | -52.00 |



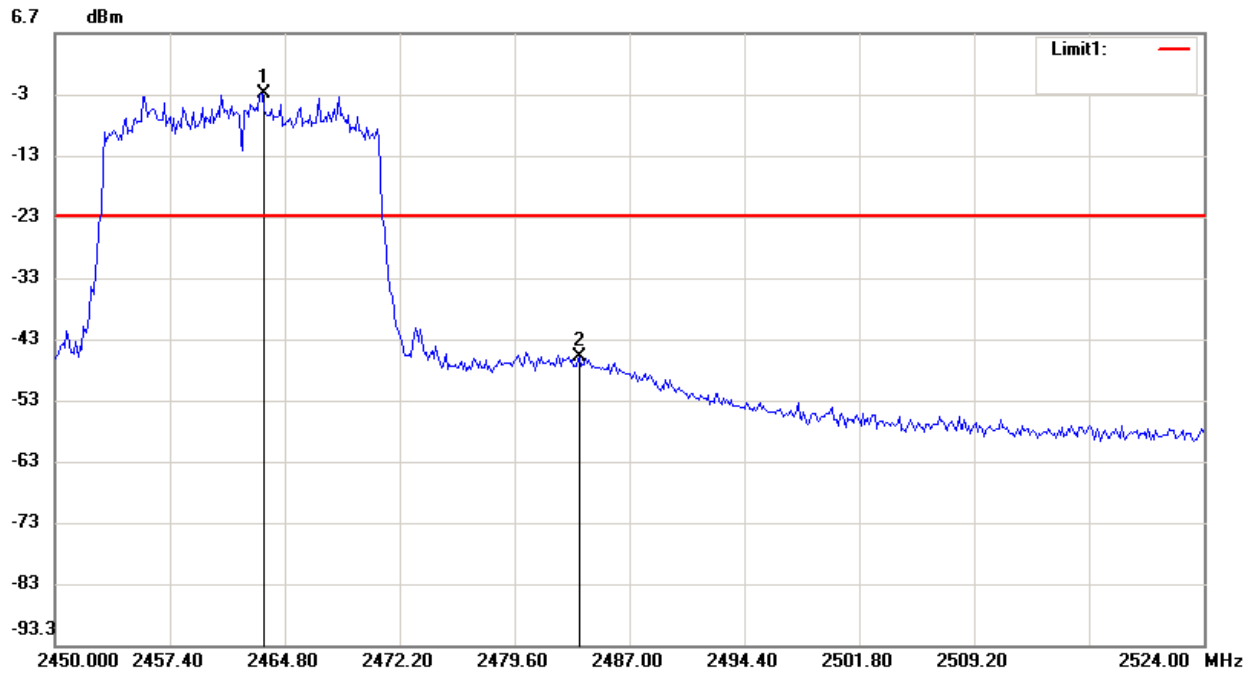
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 779.1000 | -62.19 |
| 2 | 2443.76670 | -5.83 |
| 3 | 23585.03330 | -52.59 |



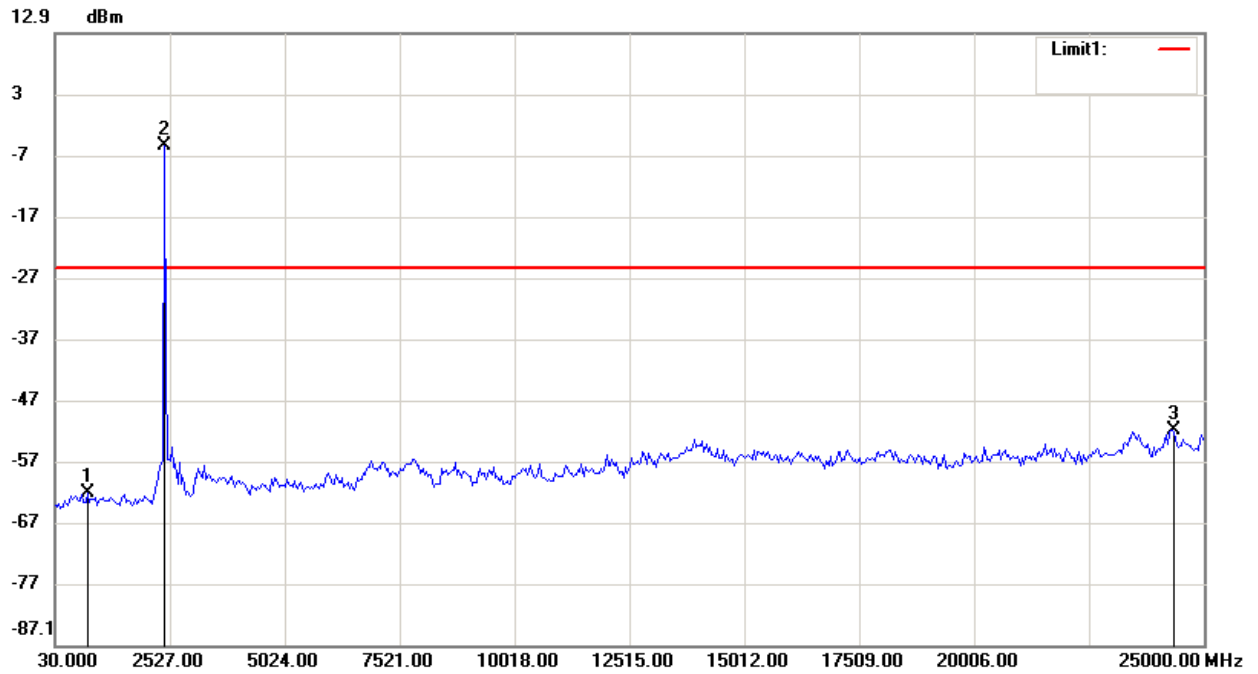
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2399.50000 | -41.69 |
| 2 | 2410.75000 | -2.78 |



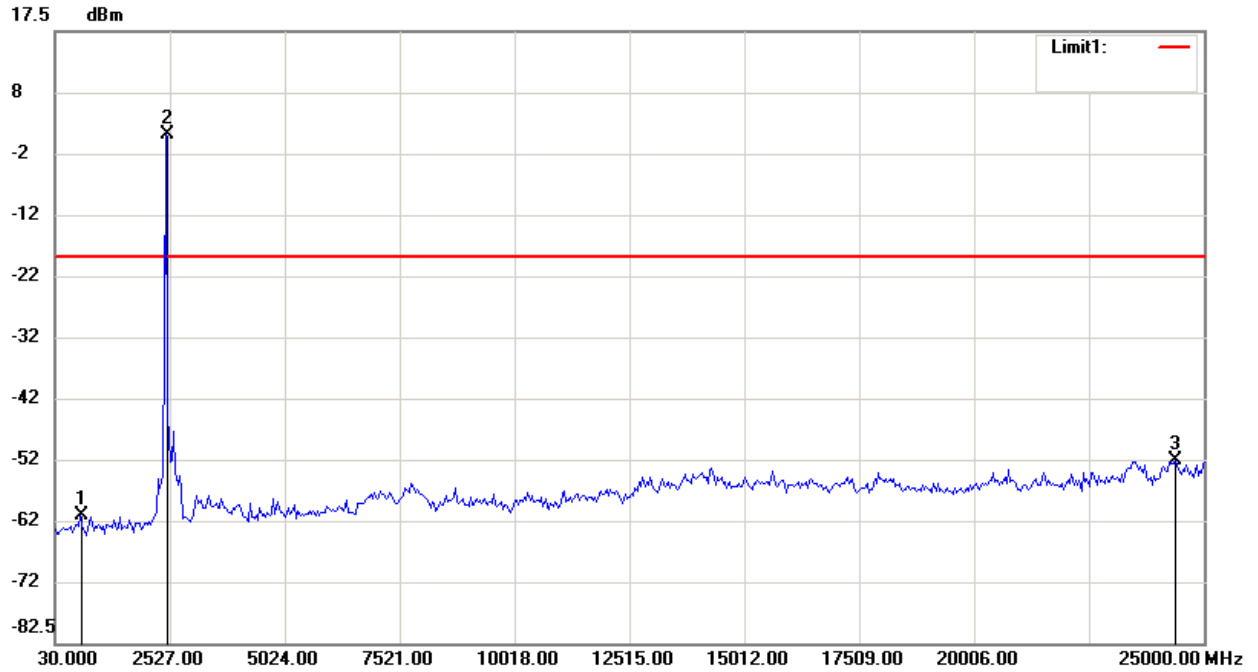
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2463.32000 | -3.30 |
| 2 | 2483.79330 | -46.18 |



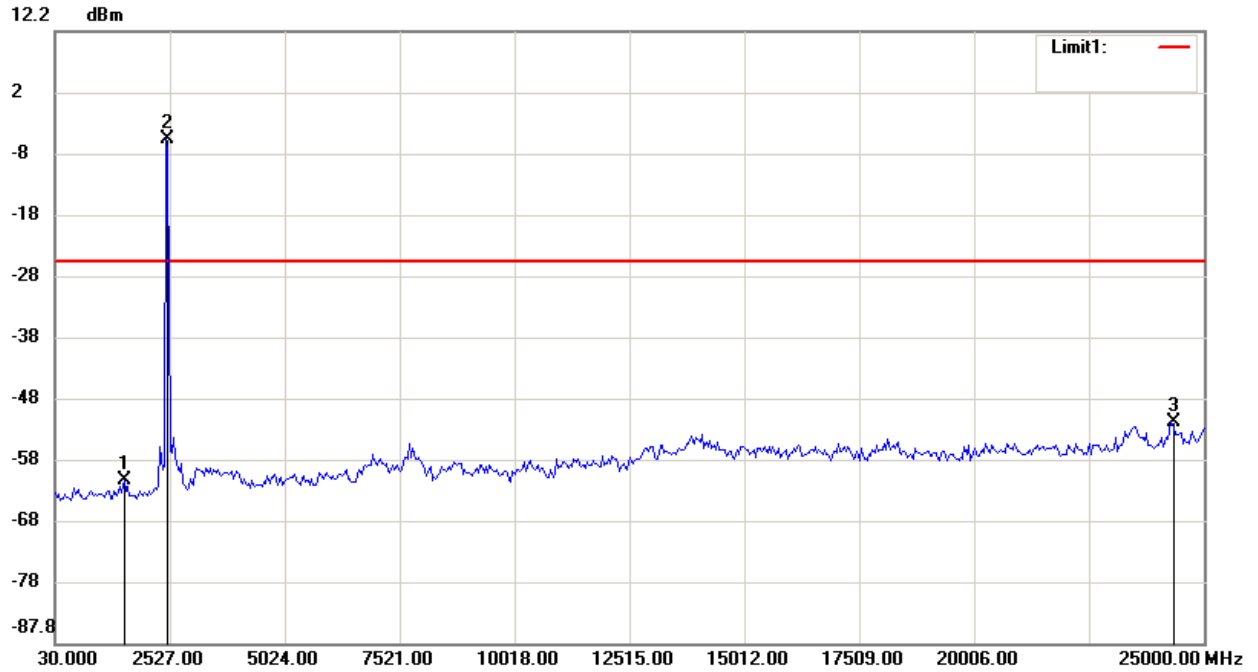
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 737.4833 | -62.19 |
| 2 | 2402.15000 | -5.58 |
| 3 | 24292.51670 | -51.96 |



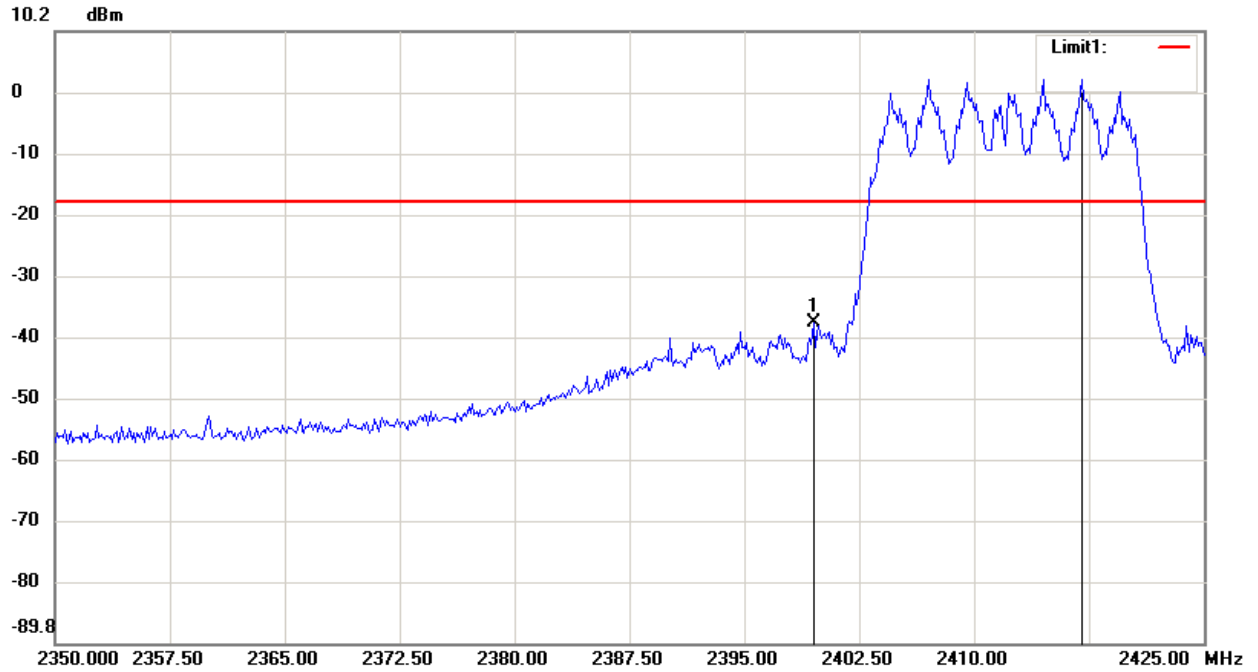
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|-------------------|--|--|
| Condition: | 802.11gn Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 06-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 571.0167 | -61.68 |
| 2 | 2443.76670 | 0.72 |
| 3 | 24375.75000 | -52.53 |



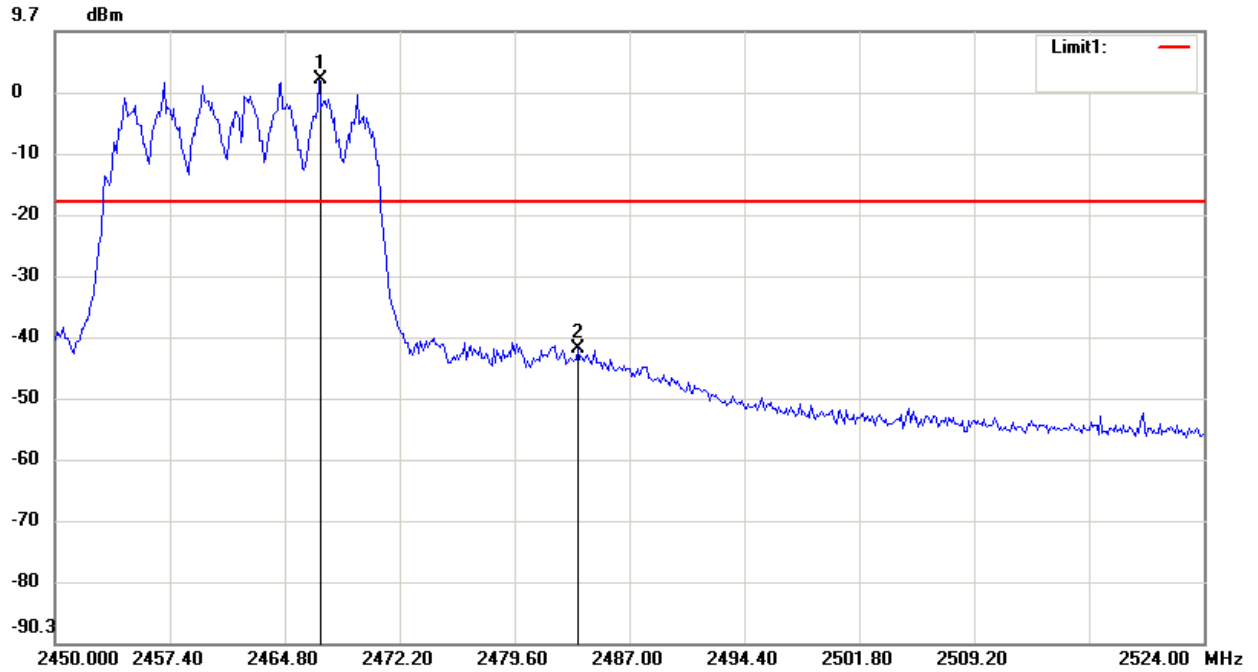
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1528.20000 | -61.19 |
| 2 | 2443.76670 | -5.54 |
| 3 | 24292.51670 | -51.72 |



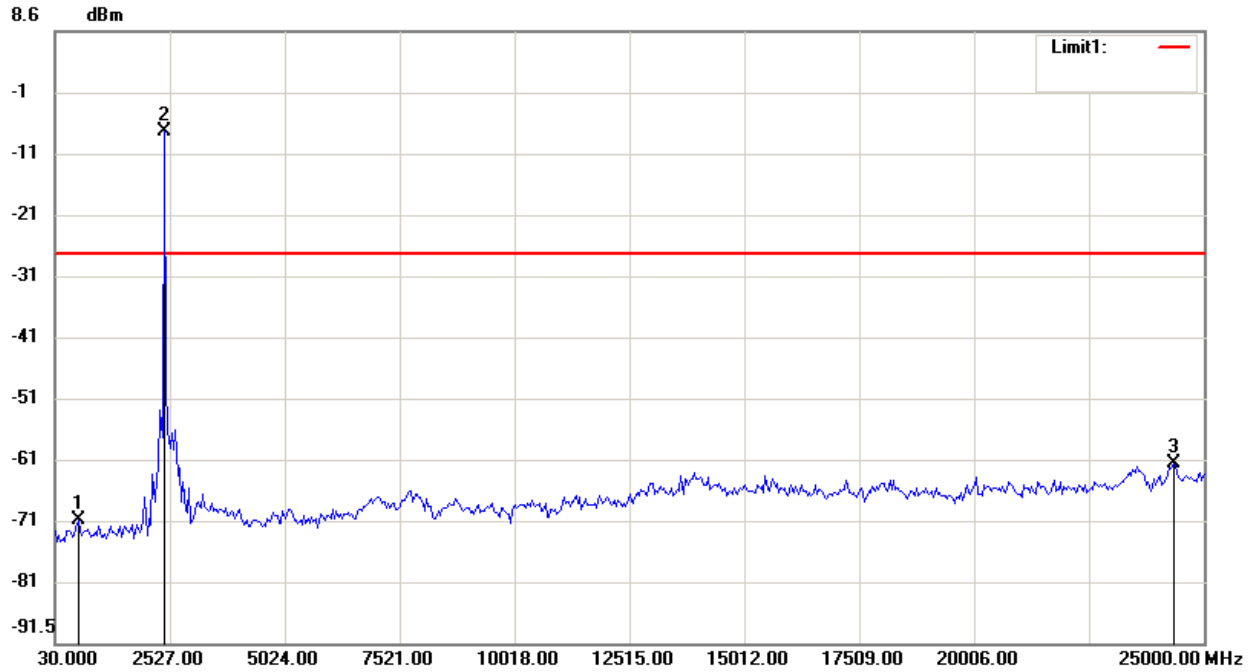
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2399.50000 | -37.53 |
| 2 | 2417.00000 | 2.39 |



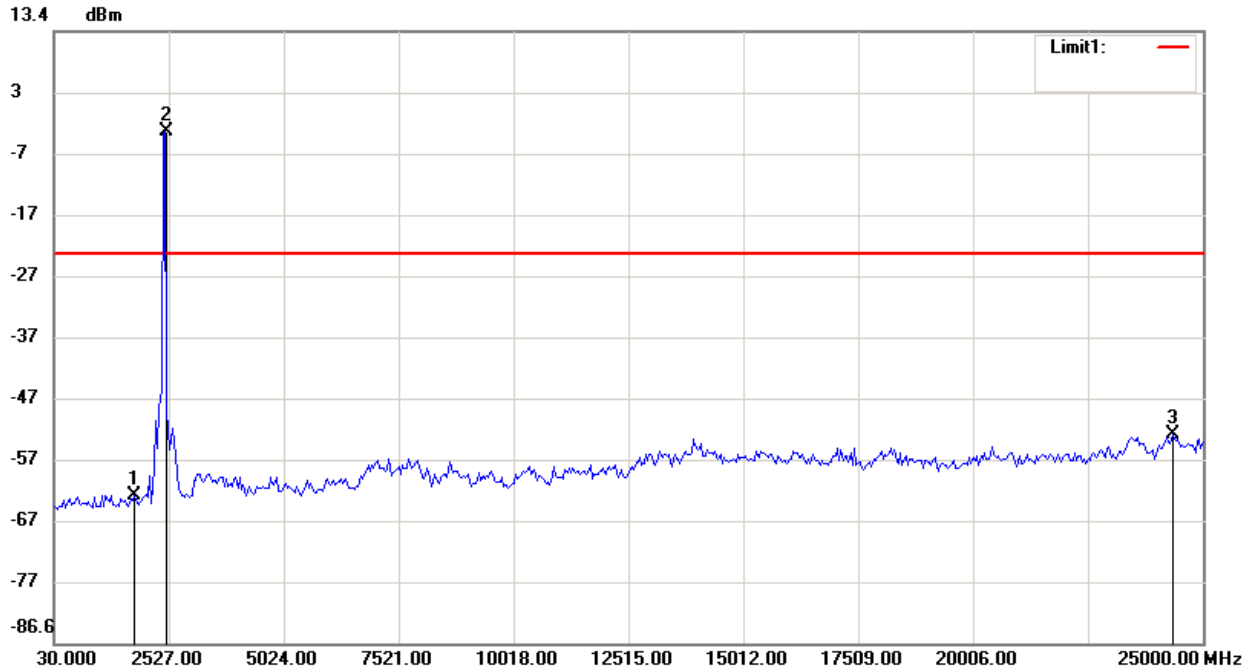
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2467.02000 | 1.95 |
| 2 | 2483.67000 | -42.16 |



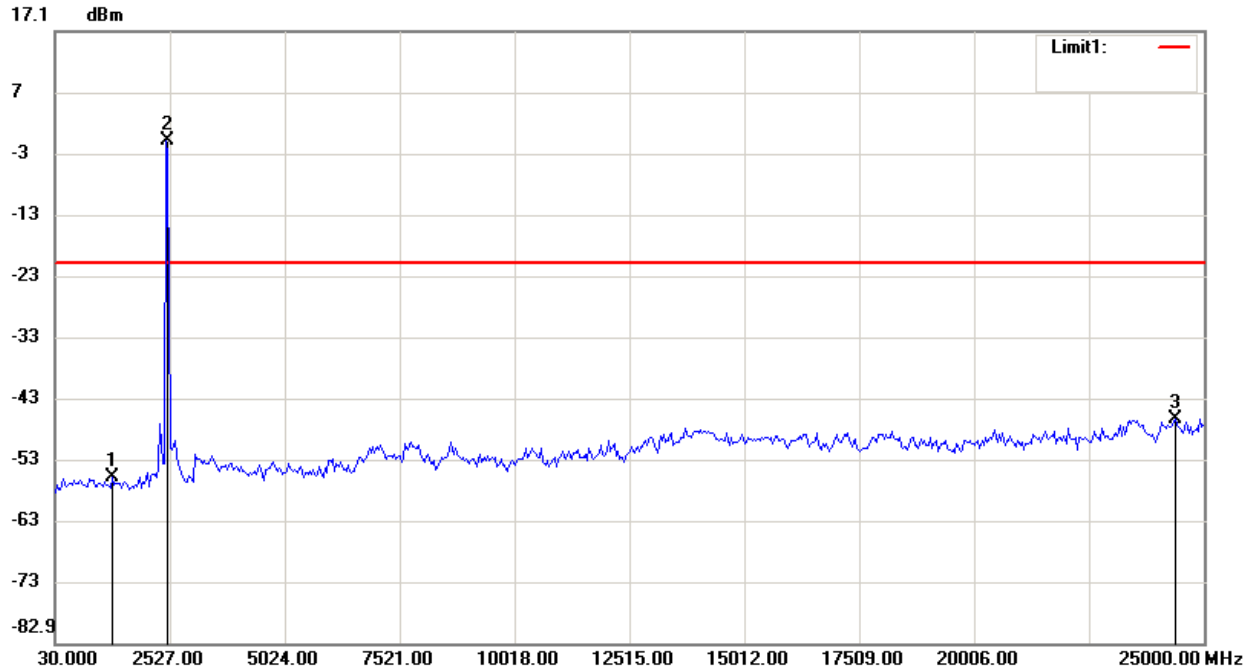
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 529.4000 | -71.39 |
| 2 | 2402.15000 | -7.83 |
| 3 | 24334.13330 | -62.19 |



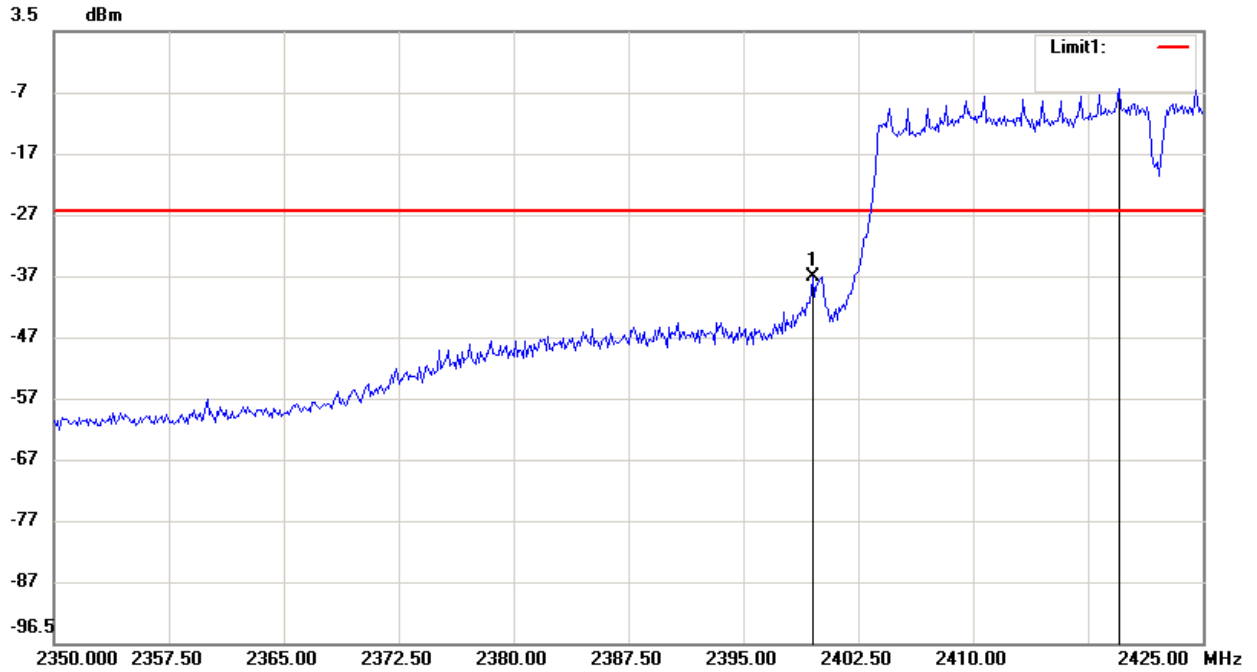
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 06-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1777.90000 | -62.34 |
| 2 | 2443.76670 | -3.00 |
| 3 | 24334.13330 | -52.44 |



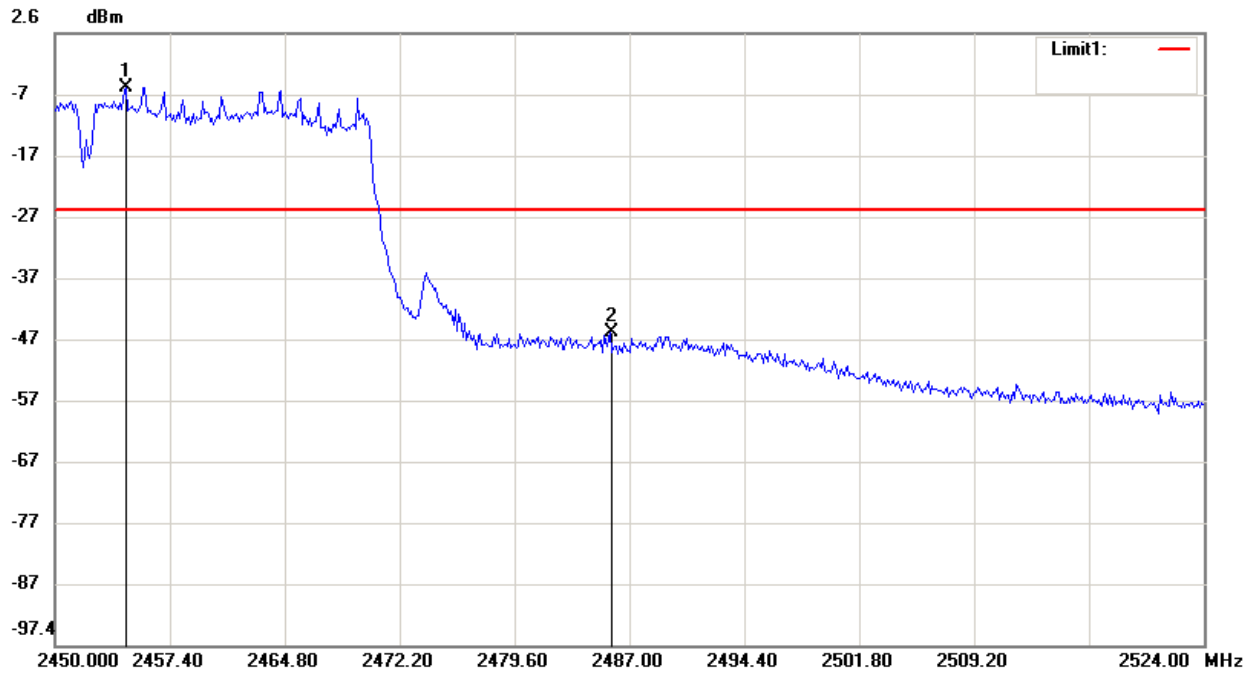
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1278.50000 | -55.84 |
| 2 | 2443.76670 | -0.80 |
| 3 | 24375.75000 | -46.31 |



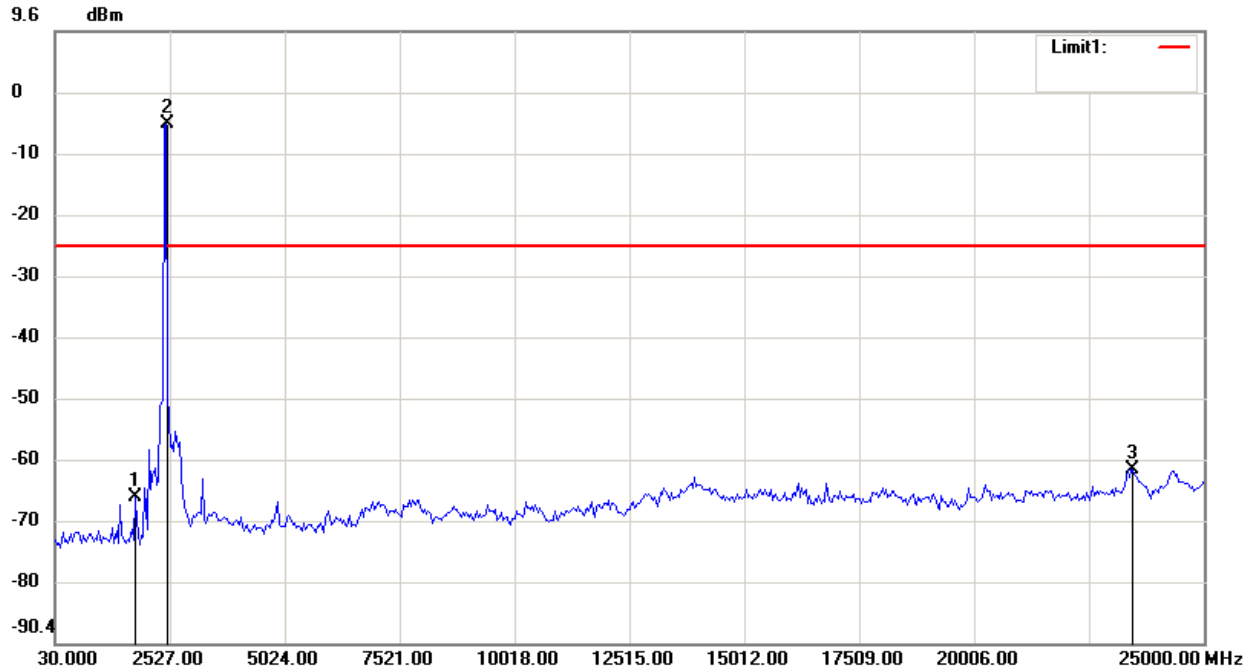
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2399.50000 | -36.67 |
| 2 | 2419.50000 | -5.85 |



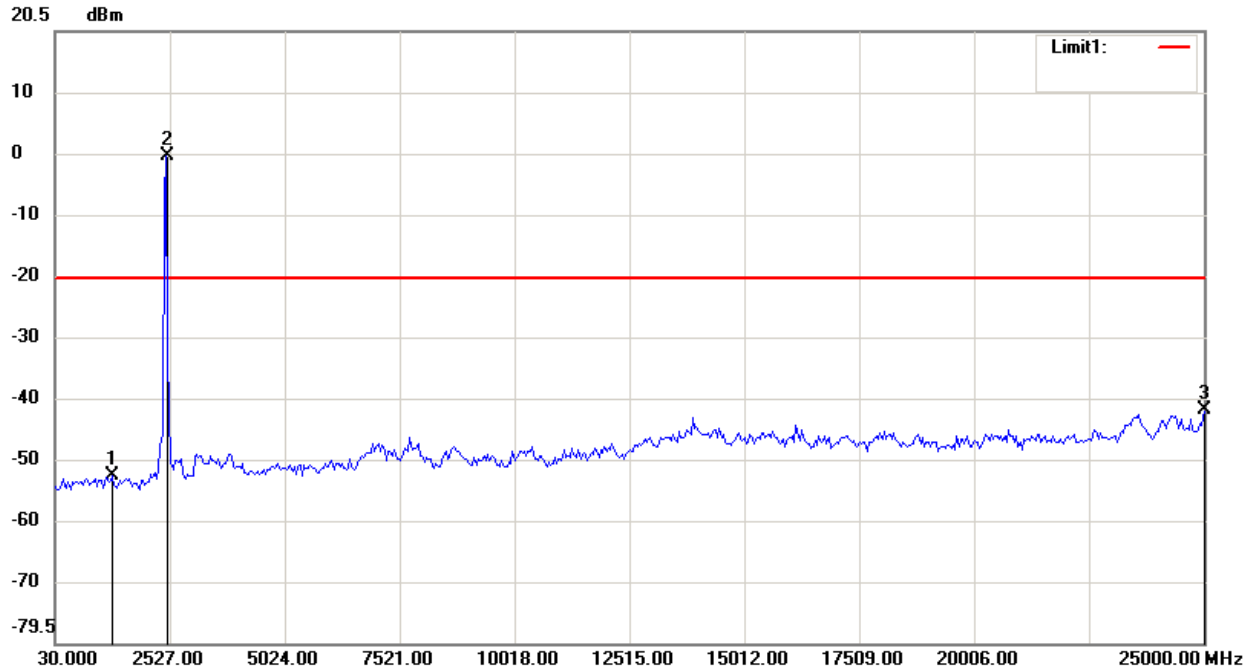
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2454.56330 | -6.23 |
| 2 | 2485.76670 | -46.23 |



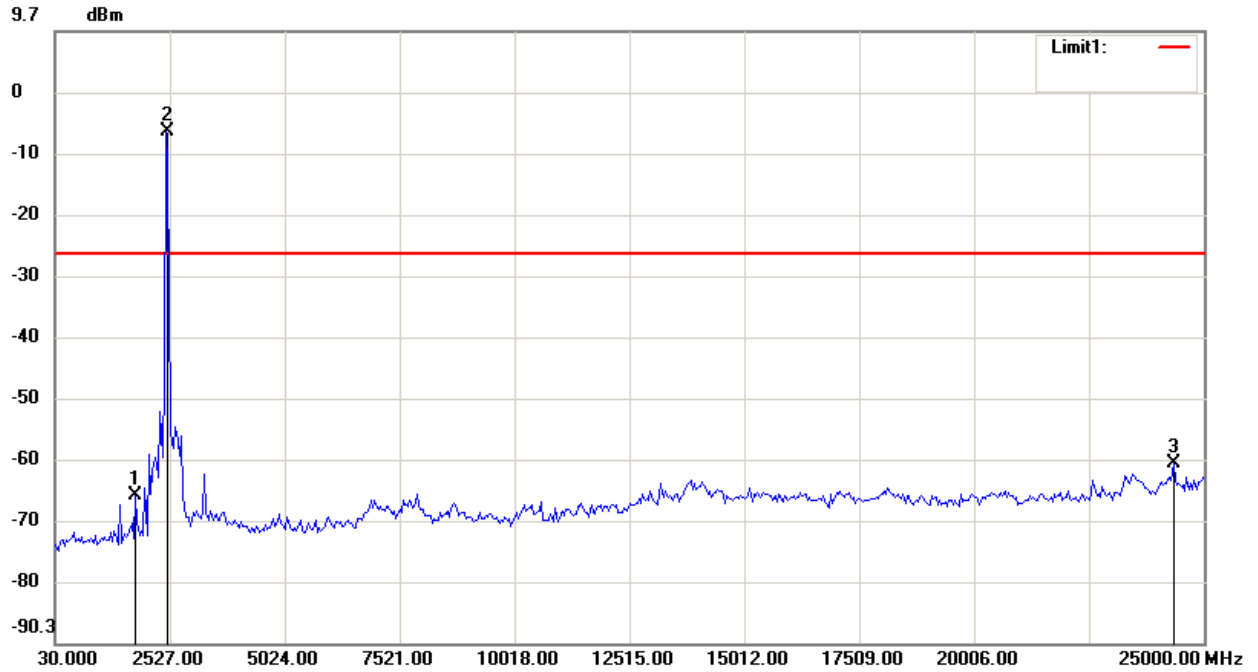
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1777.90000 | -66.60 |
| 2 | 2443.76670 | -5.44 |
| 3 | 23460.18330 | -61.98 |



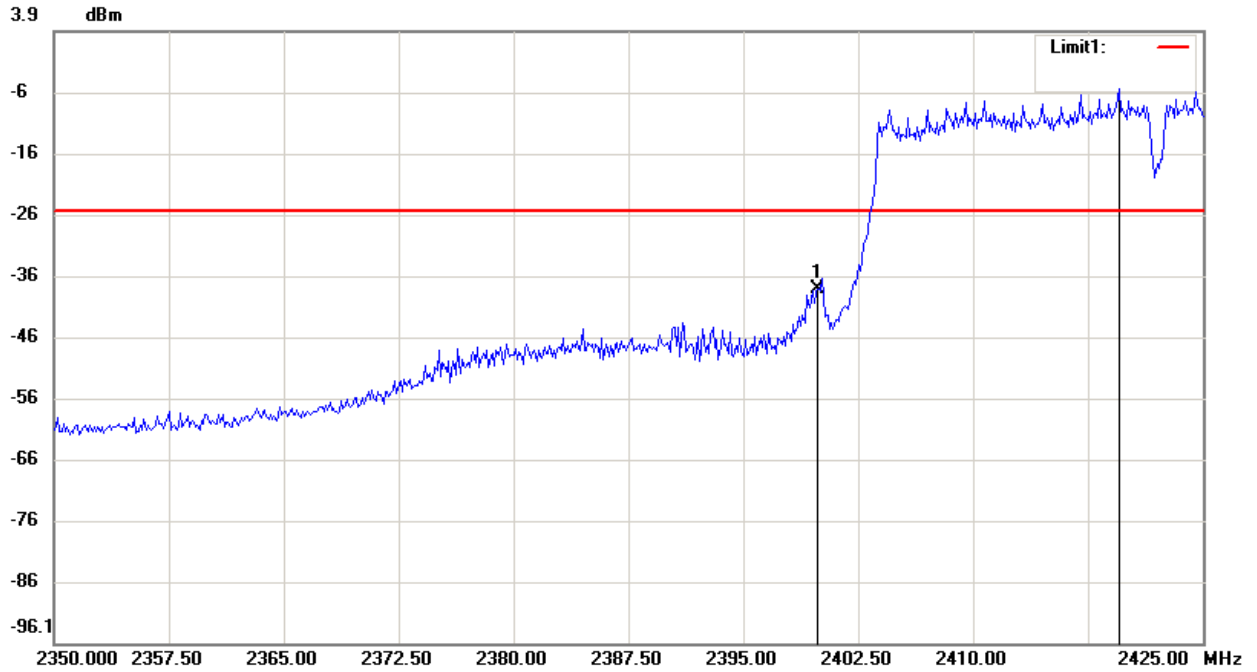
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|-------------------|--|--|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 06-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1278.50000 | -52.03 |
| 2 | 2443.76670 | 0.03 |
| 3 | 25000.00000 | -41.49 |



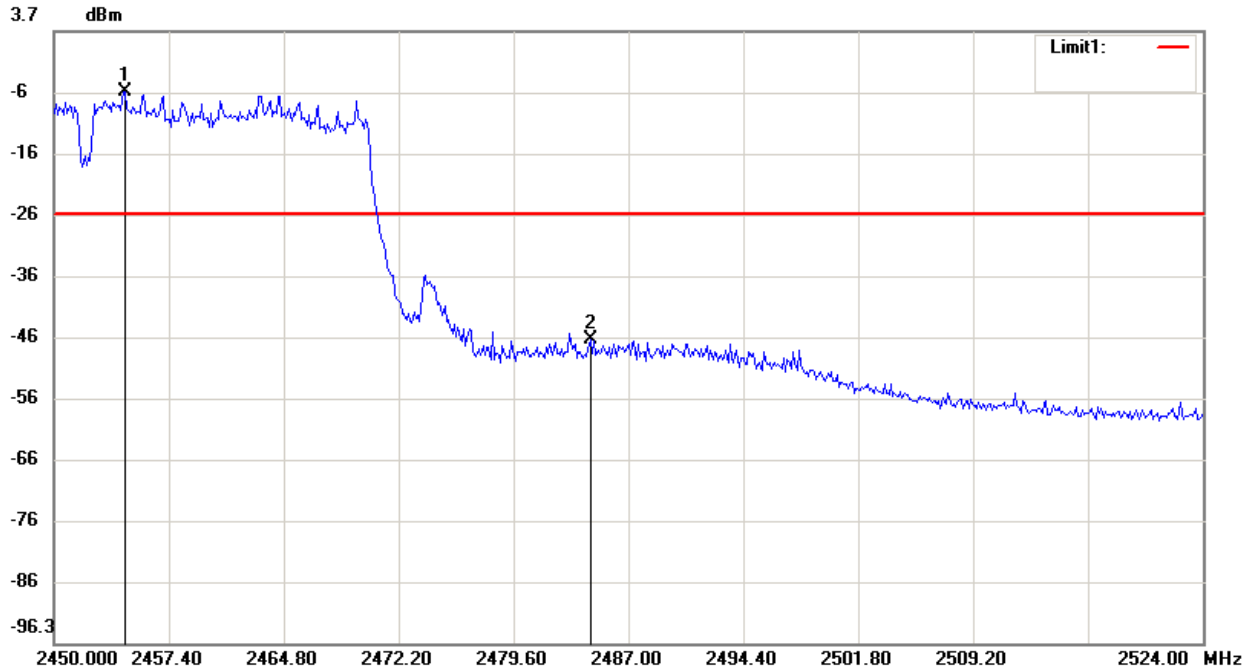
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1777.90000 | -66.28 |
| 2 | 2443.76670 | -6.70 |
| 3 | 24334.13330 | -61.06 |



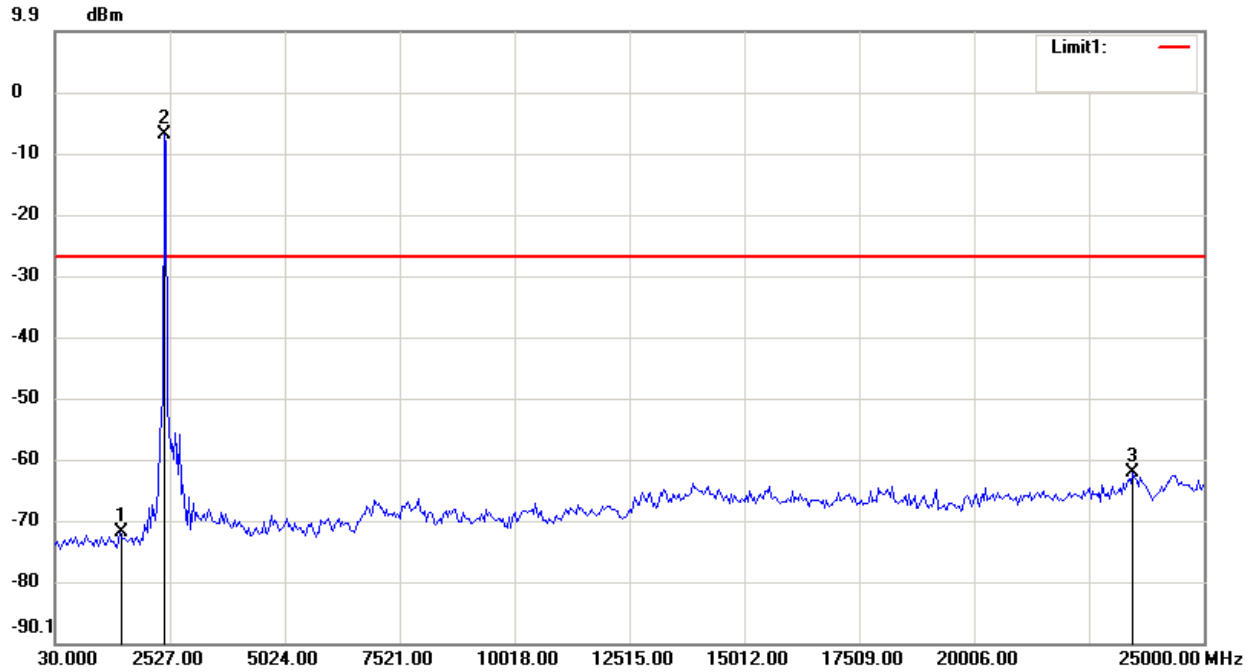
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2399.87500 | -38.29 |
| 2 | 2419.50000 | -5.53 |



| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2454.56330 | -6.08 |
| 2 | 2484.53330 | -46.59 |



| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1444.96670 | -71.97 |
| 2 | 2402.15000 | -7.02 |
| 3 | 23460.18330 | -62.09 |

Produkte
Products

Prüfbericht - Nr.: 17018981 001
Test Report No.

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File: ALPHA NETWORK

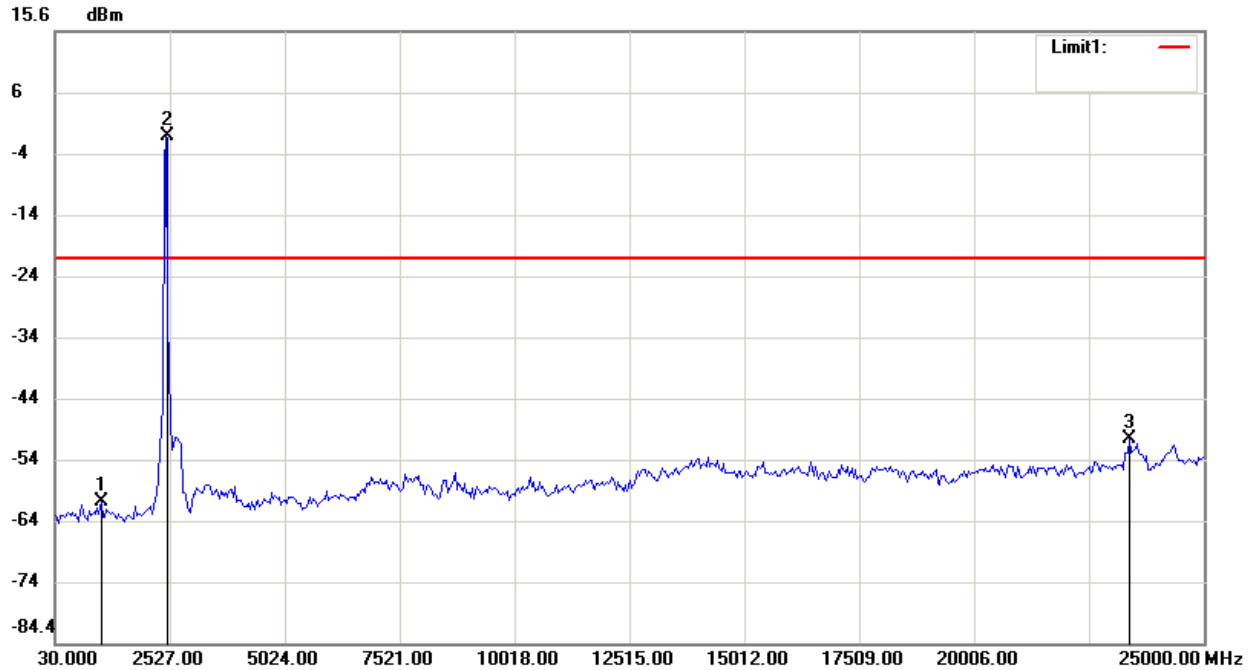
Data: #64

Date: 2011/1/3

Temperature: 20 °C

Time: PM 01:31:54

Humidity: 56 %



Condition: 802.11gn Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11gn_HT40 Channel 06-Conducted Spurious

RF Conducted
Sweep Time: 2386.4ms Att.: 20dB
RBW: 100 KHz VBW: 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1028.80000 | -61.28 |
| 2 | 2443.76670 | -1.47 |
| 3 | 23376.95000 | -50.95 |

Produkte
Products

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File: ALPHA
NETWORK

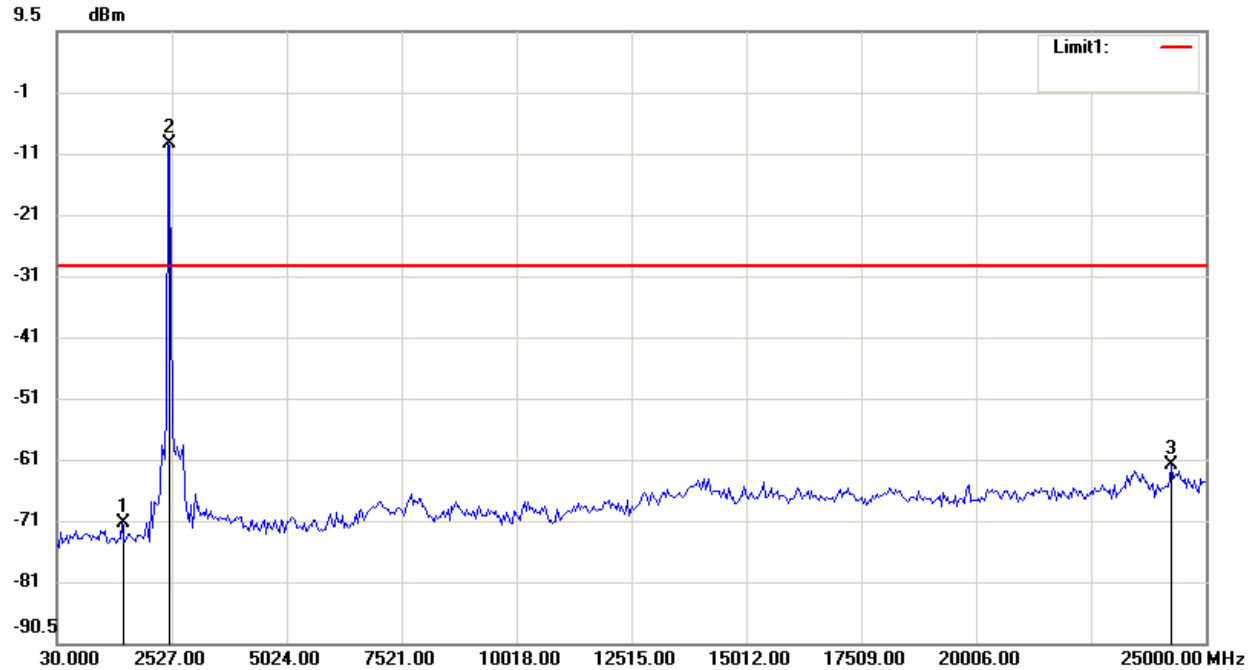
Data: #68

Date: 2011/1/3

Temperature: 20 °C

Time: PM 01:39:38

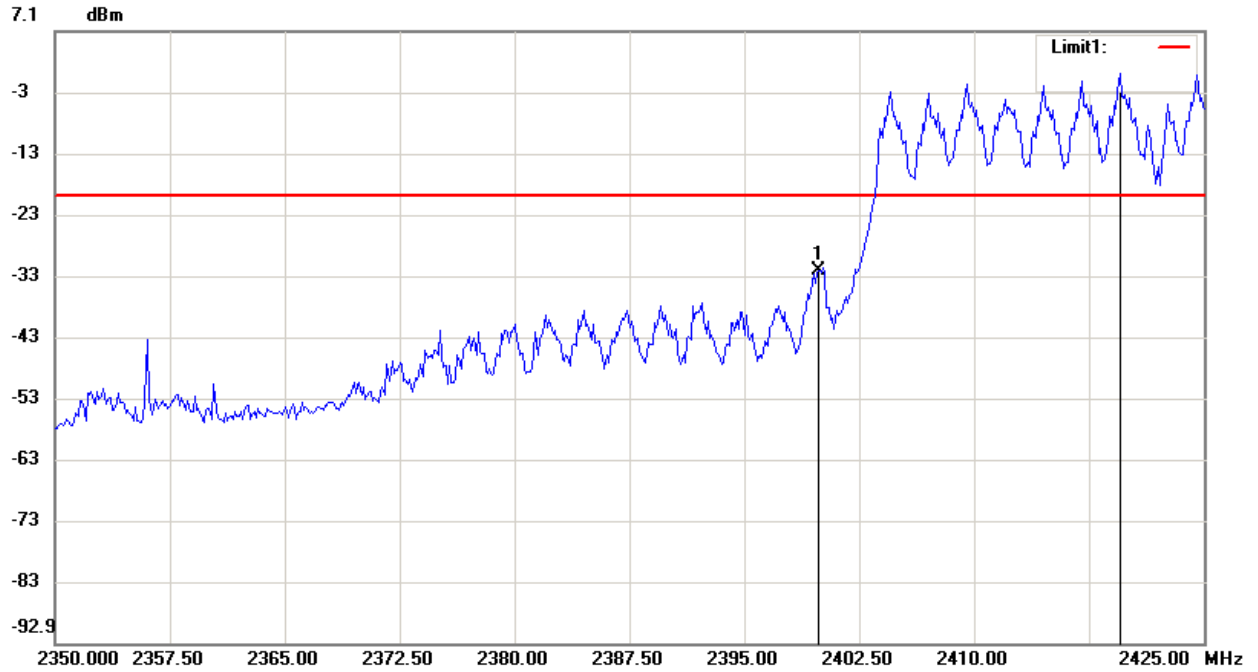
Humidity: 56 %



Condition: 802.11gn Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11gn_HT40 Channel 09-Conducted Spurious

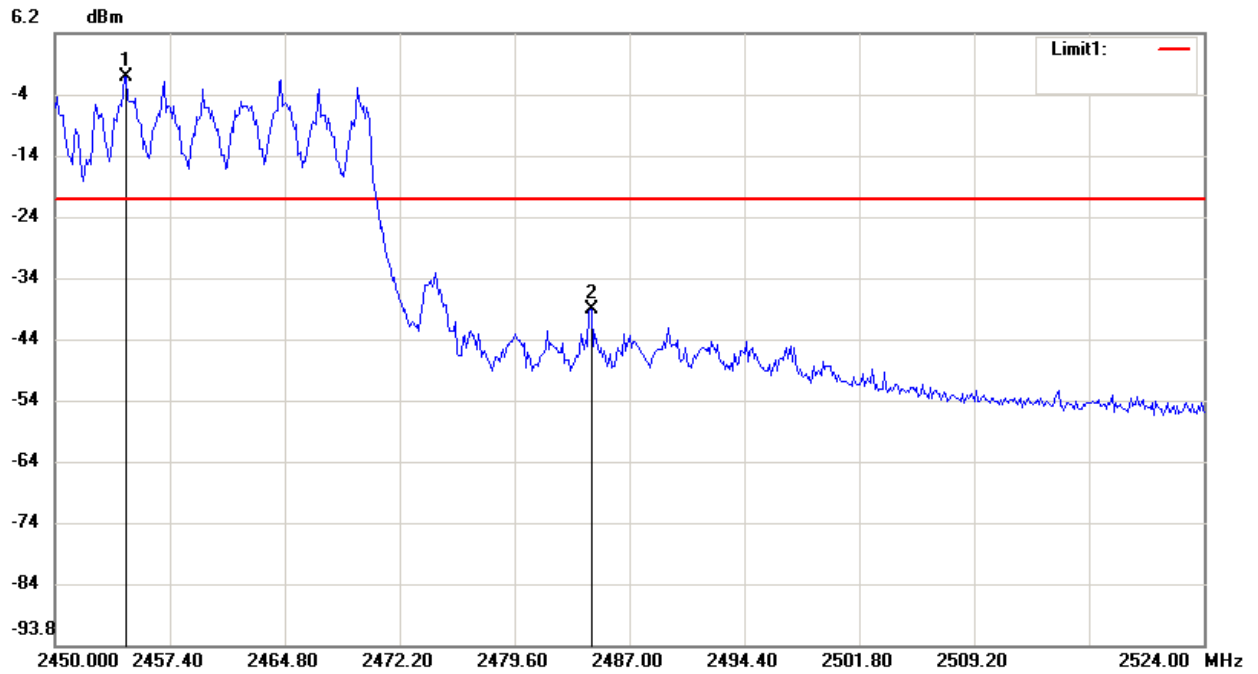
RF Conducted
Sweep Time: 2386.4ms Att.: 10dB
RBW: 100 KHz VBW: 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1444.96670 | -70.97 |
| 2 | 2443.76670 | -8.76 |
| 3 | 24250.90000 | -61.31 |



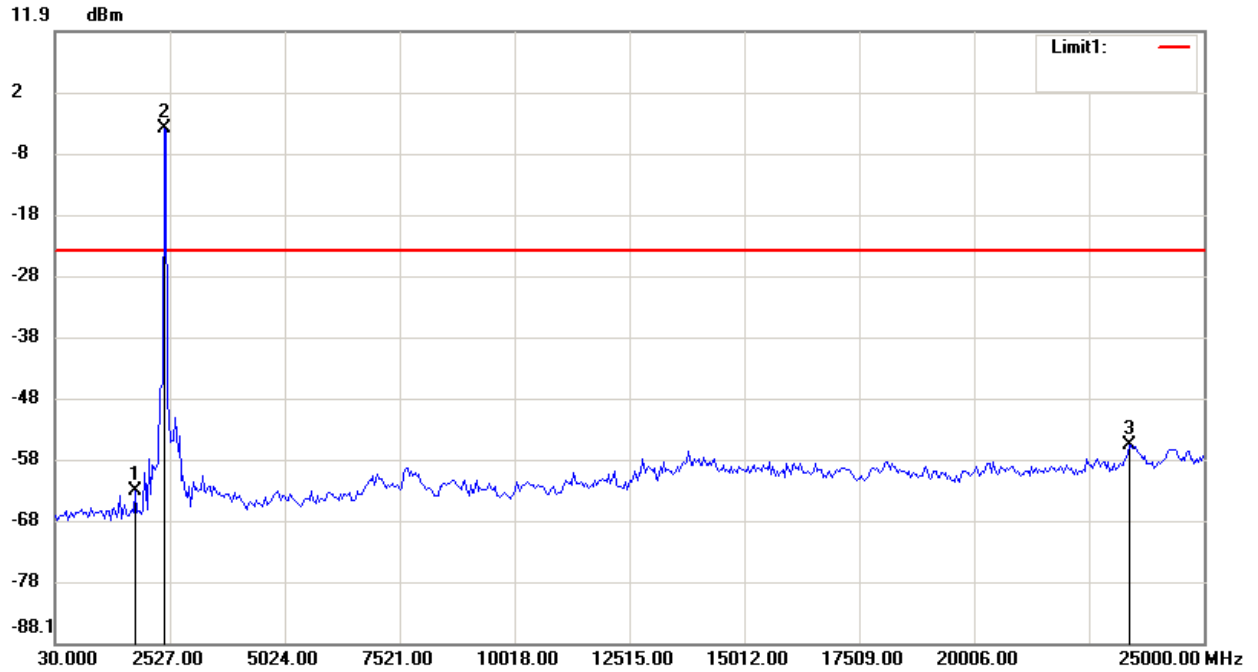
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2399.87500 | -31.89 |
| 2 | 2419.50000 | 0.33 |



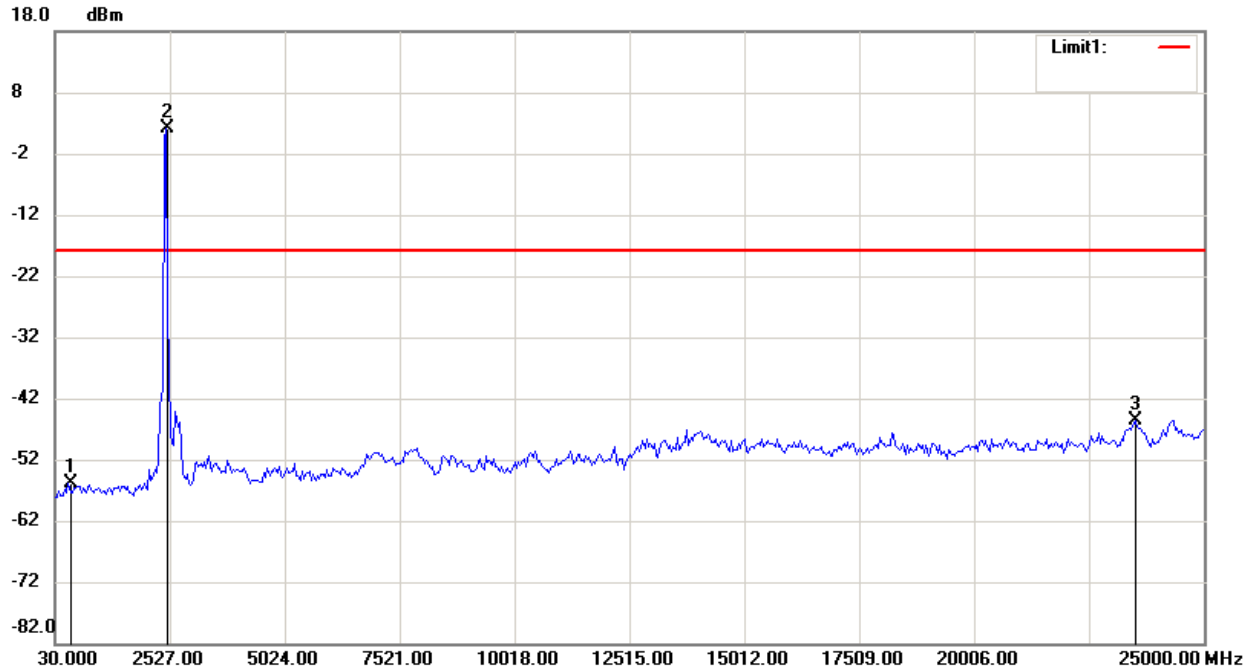
| | | |
|-------------------|--|-------------------------------------|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2454.56330 | -0.90 |
| 2 | 2484.53330 | -38.88 |



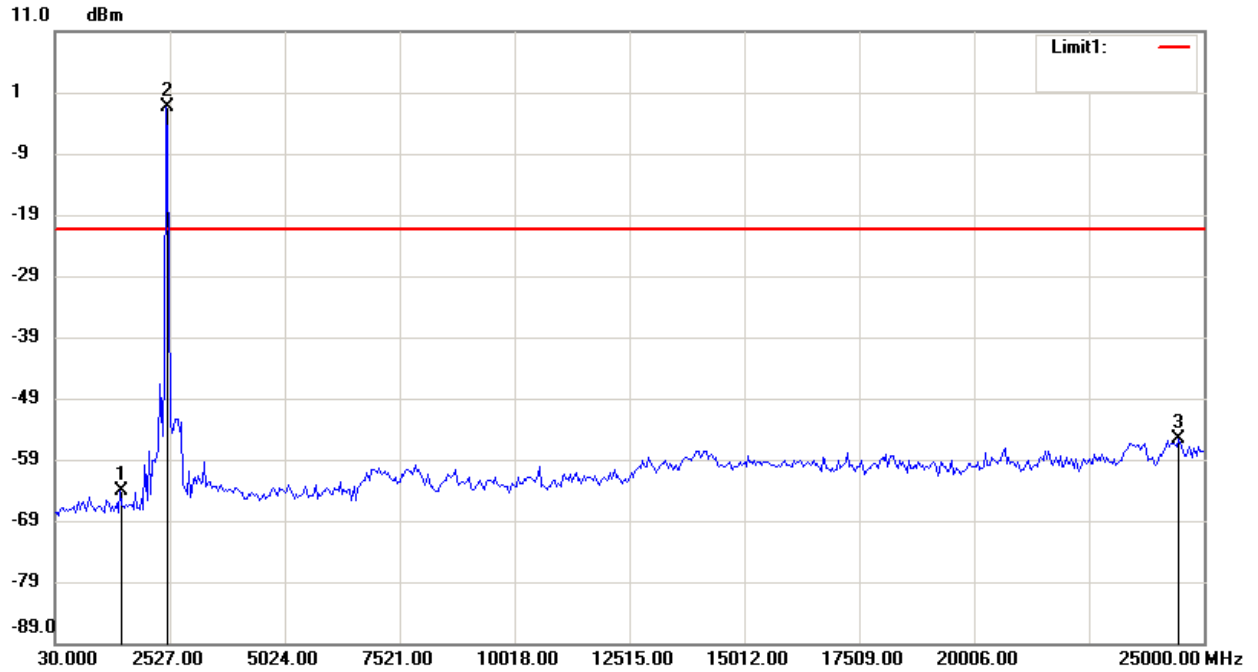
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1777.90000 | -63.08 |
| 2 | 2402.15000 | -3.98 |
| 3 | 23376.95000 | -55.61 |



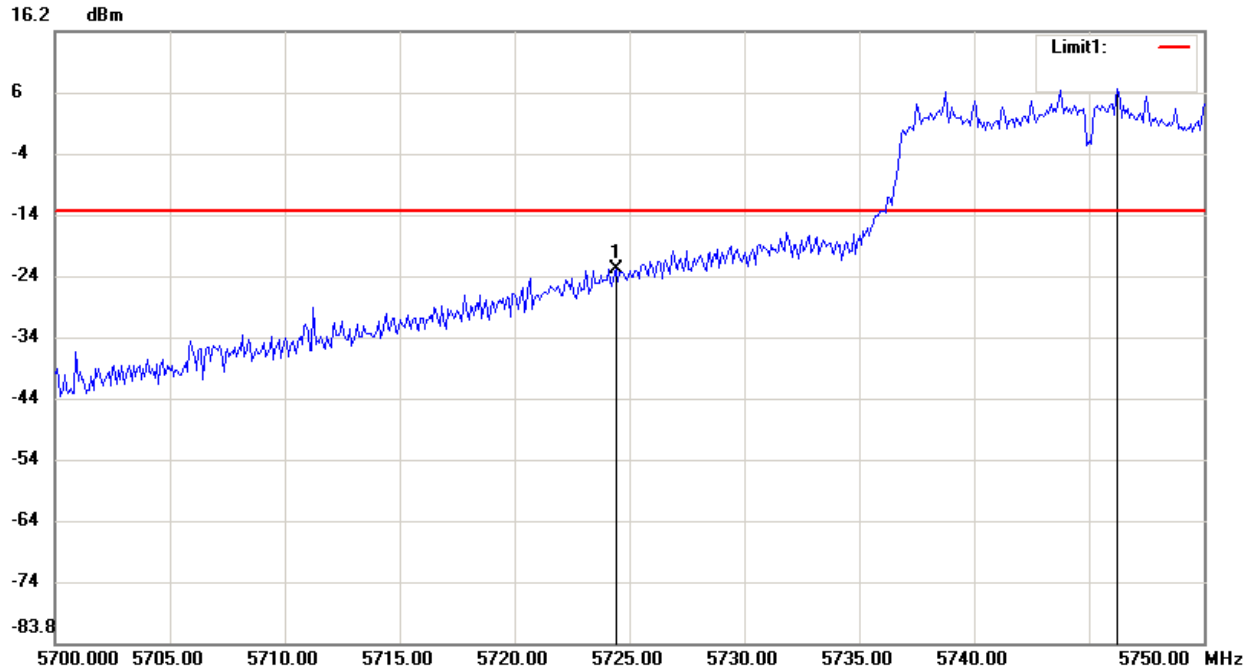
| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 06-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 321.3167 | -55.90 |
| 2 | 2443.76670 | 2.18 |
| 3 | 23501.80000 | -45.58 |



| | | |
|-------------------|--|--|
| Condition: | 802.11gn Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 2386.4ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-Conducted Spurious | |

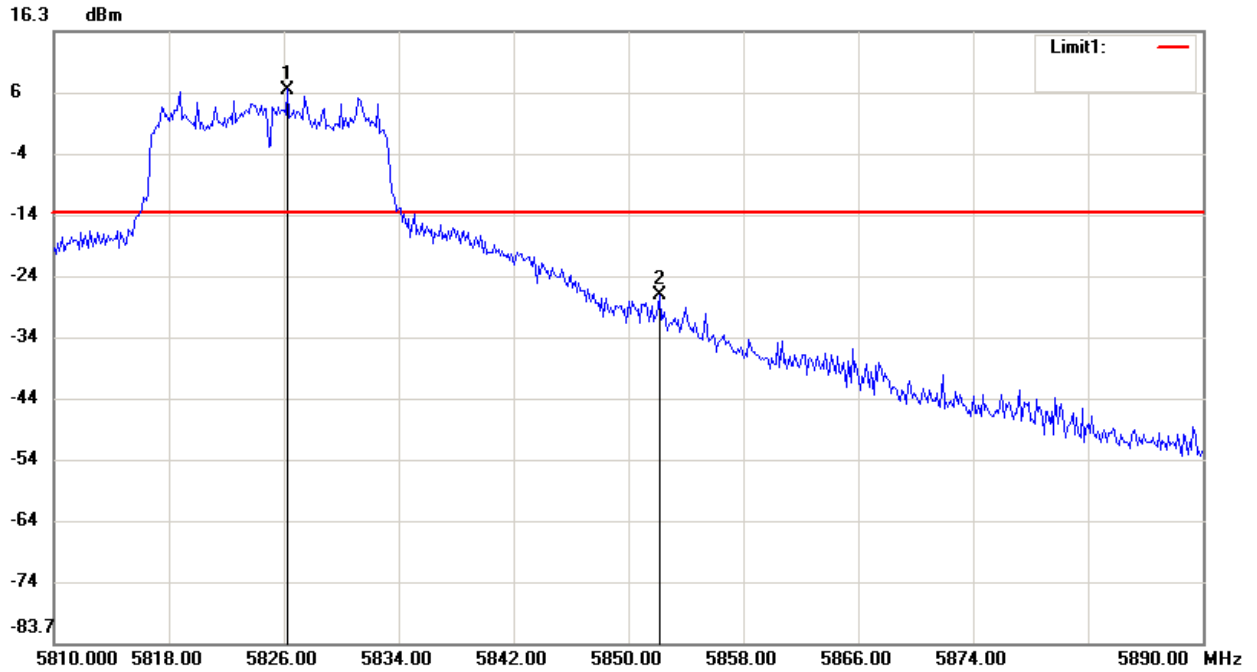
| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 1444.96670 | -64.20 |
| 2 | 2443.76670 | -1.53 |
| 3 | 24458.98330 | -55.67 |



Condition: 802.11a Chain 0
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 149-Bandedge

RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

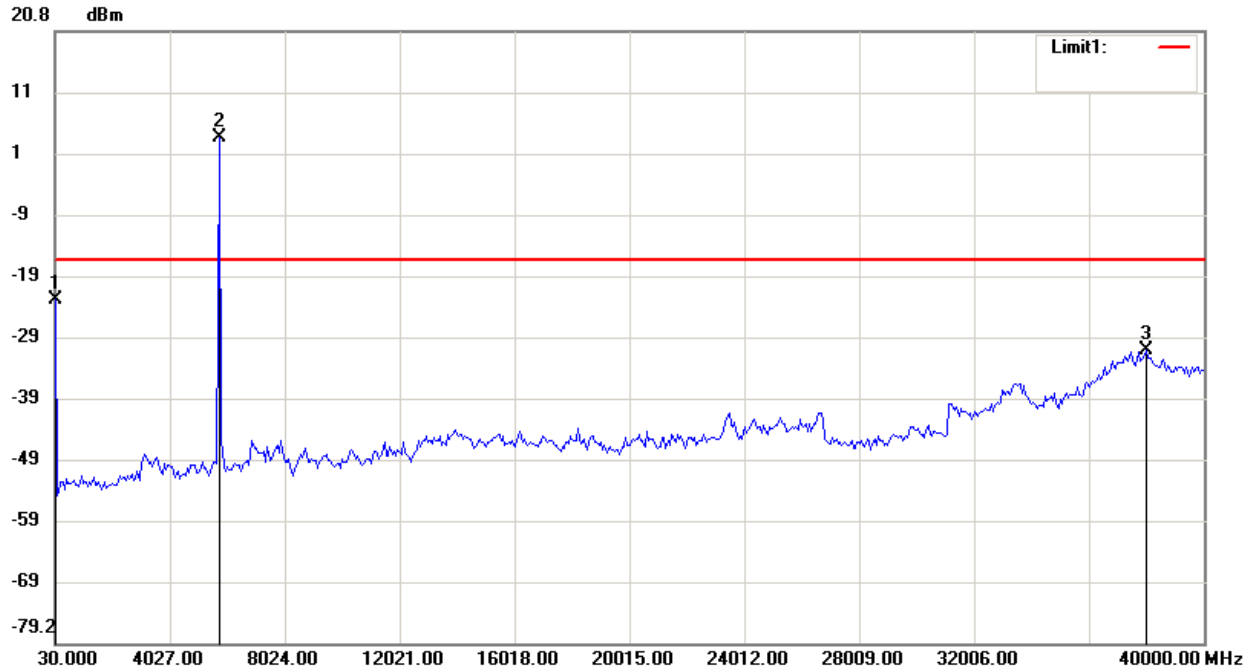
| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5724.4167 | -22.62 |
| 2 | 5746.2500 | 6.74 |



Condition: 802.11a Chain 0
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 165-Bandedge

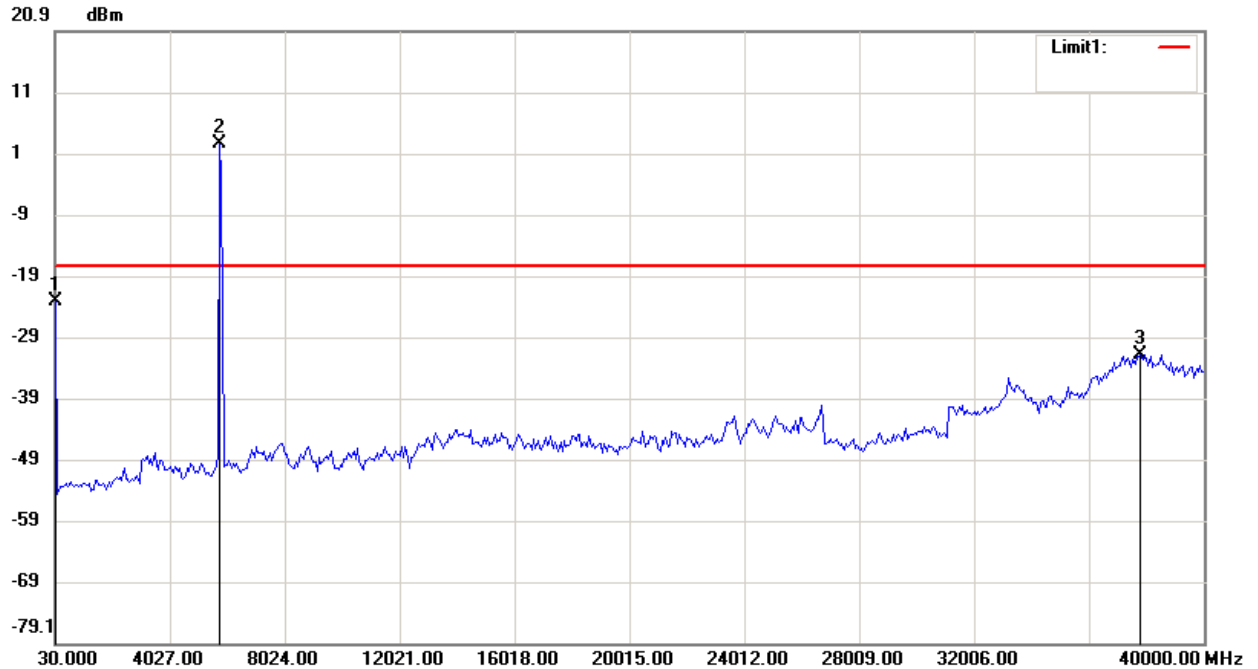
RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5826.2667 | 6.77 |
| 2 | 5852.1333 | -26.83 |



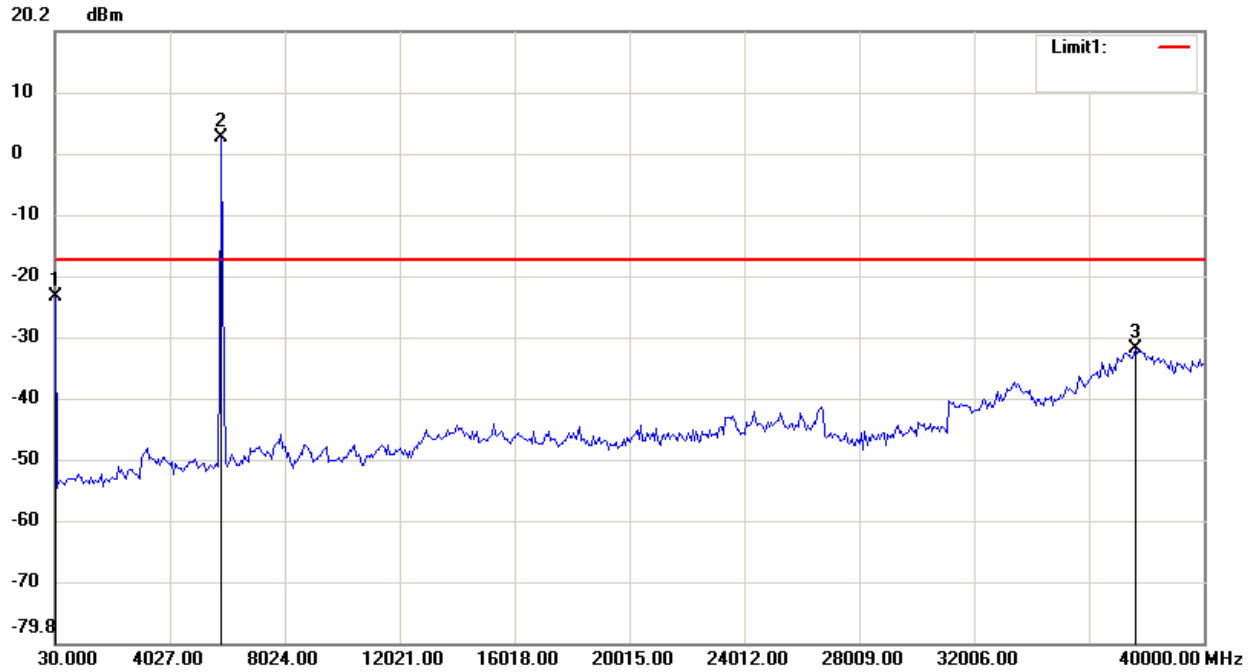
| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 149-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -23.23 |
| 2 | 5759.0333 | 3.28 |
| 3 | 38001.5000 | -31.36 |



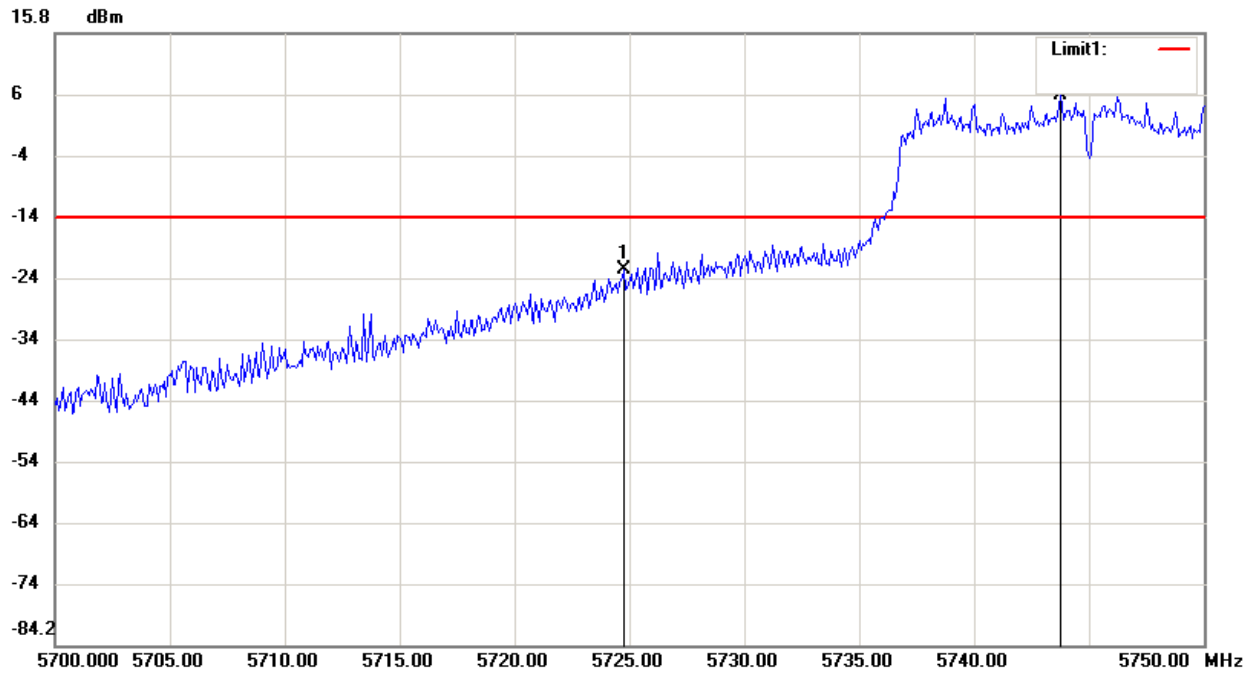
| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 157-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -23.23 |
| 2 | 5759.0333 | 2.40 |
| 3 | 37801.6500 | -31.90 |



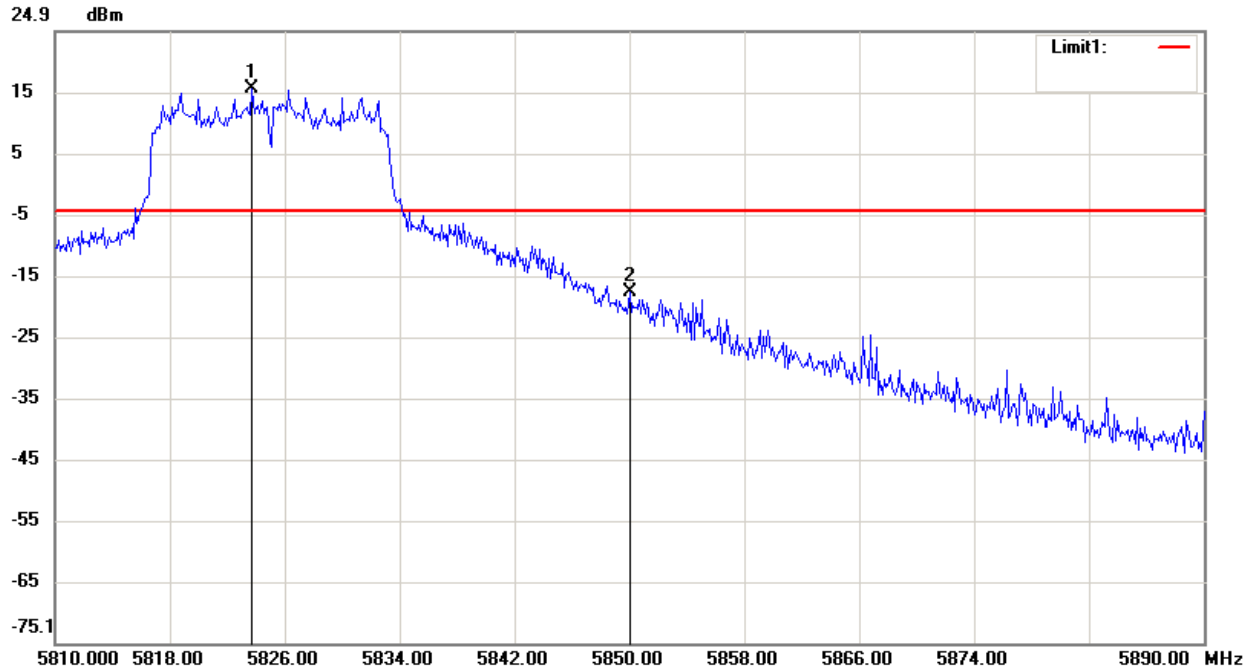
| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 165-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -23.26 |
| 2 | 5825.6500 | 2.81 |
| 3 | 37601.8000 | -31.57 |



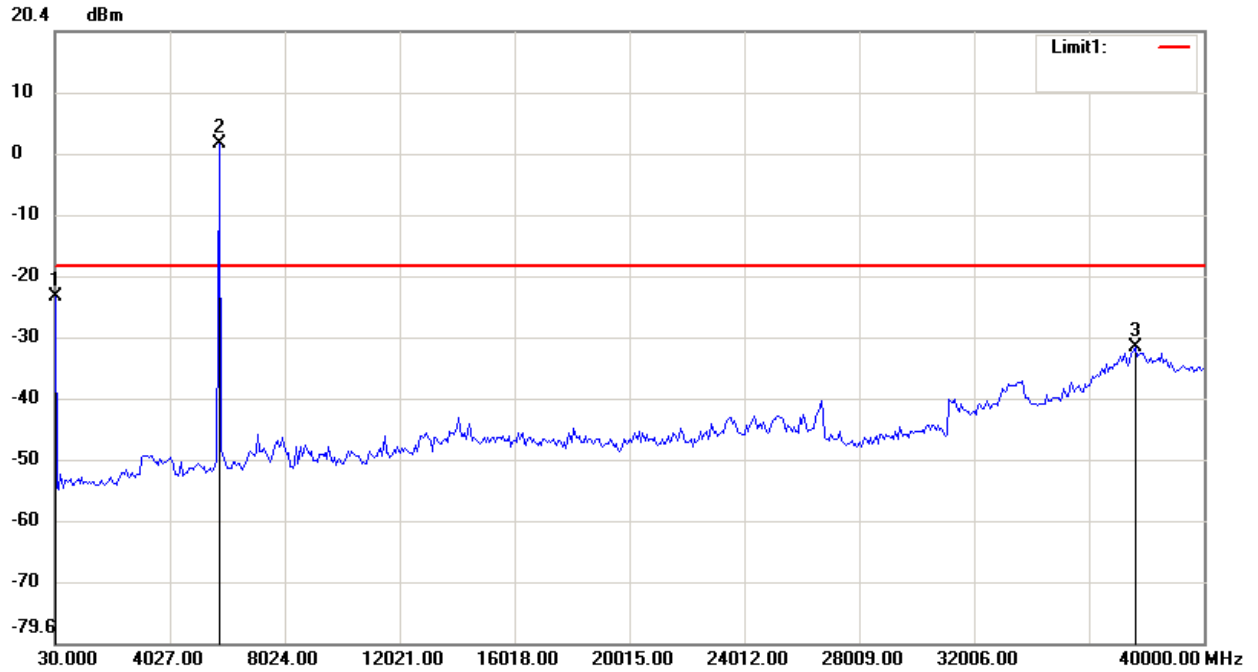
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11a Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 149-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5724.7500 | -22.92 |
| 2 | 5743.7500 | 5.67 |



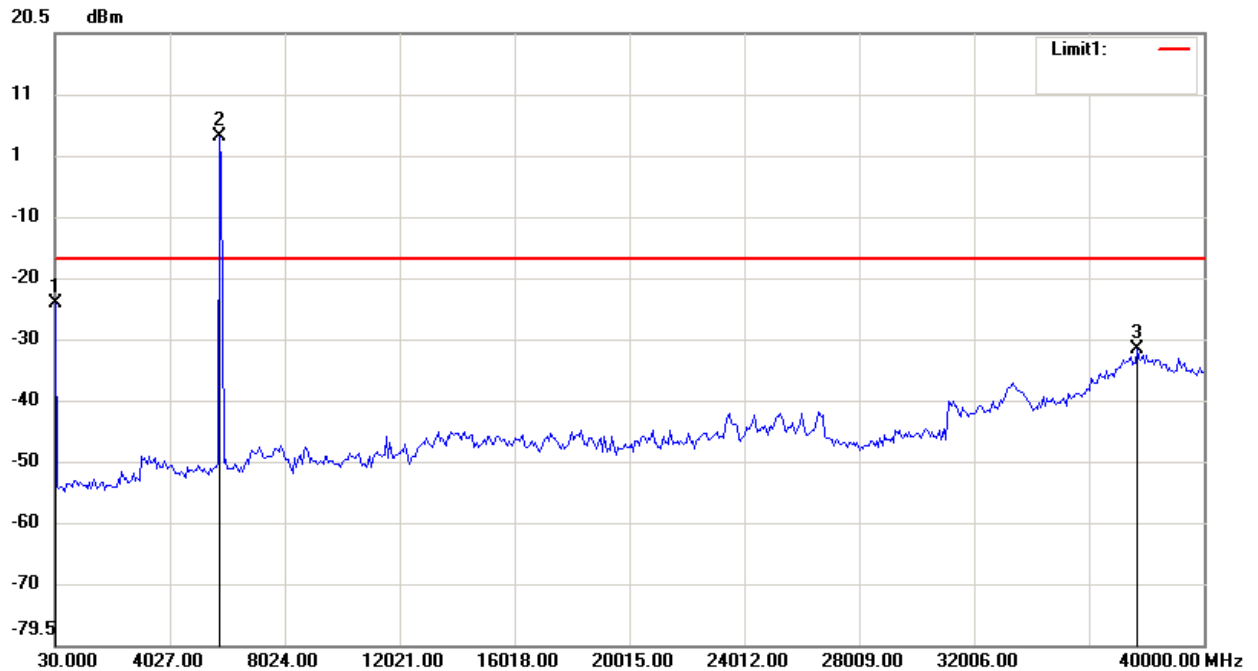
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11a Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 165-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5823.73330 | 15.44 |
| 2 | 5850.00000 | -17.75 |



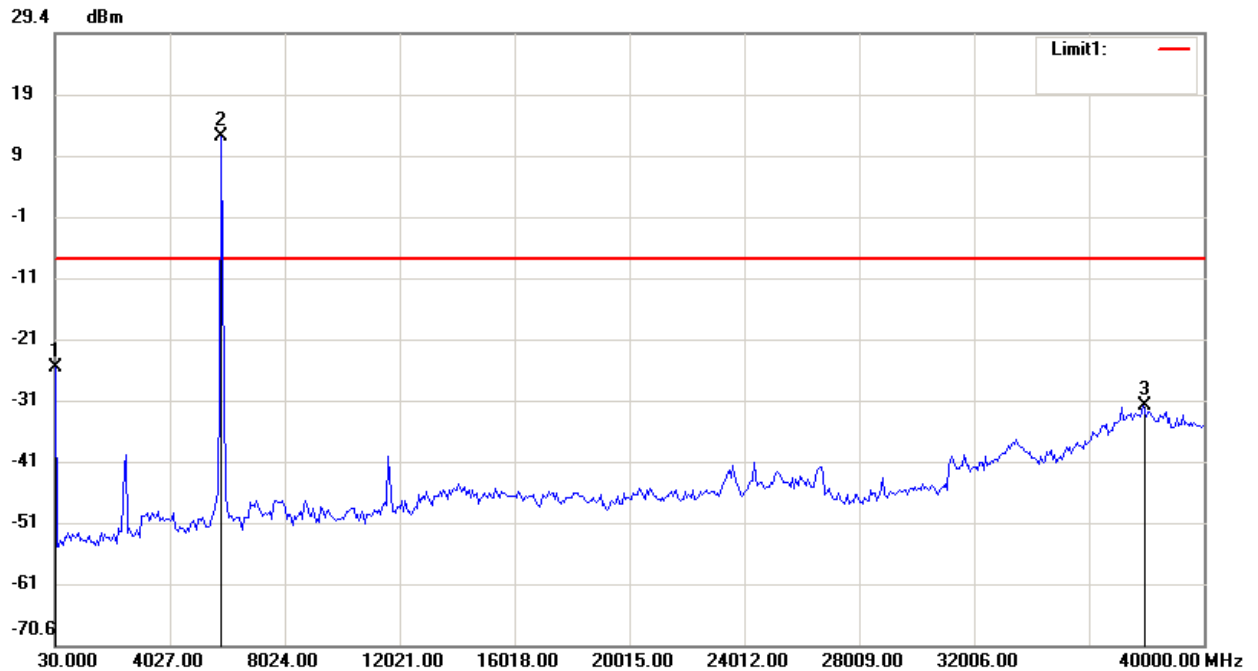
| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 149-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -22.98 |
| 2 | 5759.0333 | 1.99 |
| 3 | 37601.8000 | -31.30 |



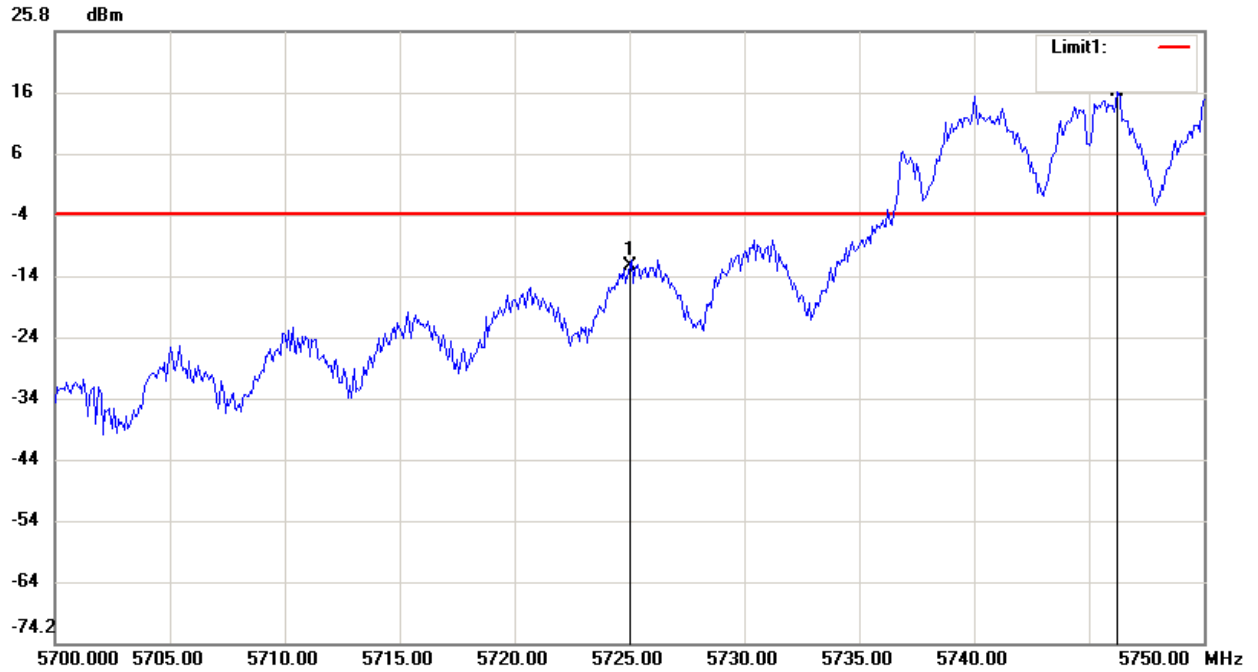
| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 157-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -23.71 |
| 2 | 5759.0333 | 3.74 |
| 3 | 37668.4167 | -31.16 |



| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 165-Conducted Spurious | |

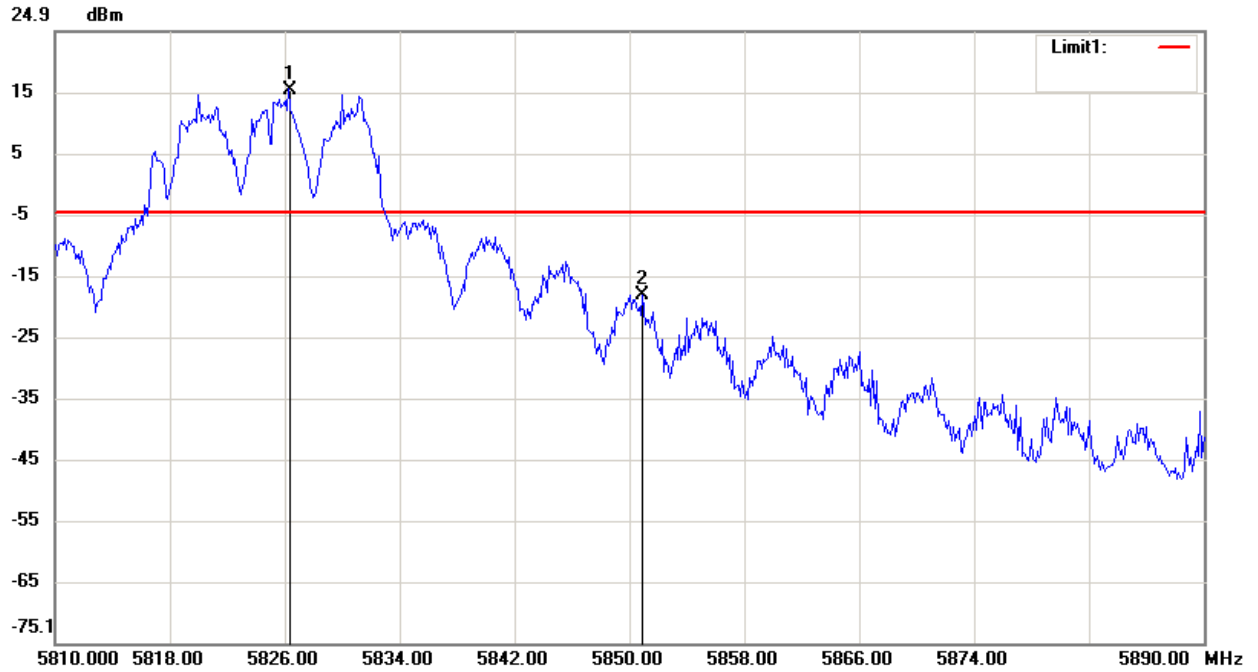
| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -25.23 |
| 2 | 5825.65000 | 12.65 |
| 3 | 37868.26670 | -31.42 |



Condition: 802.11a Chain 0+Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 149-Bandedge

RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

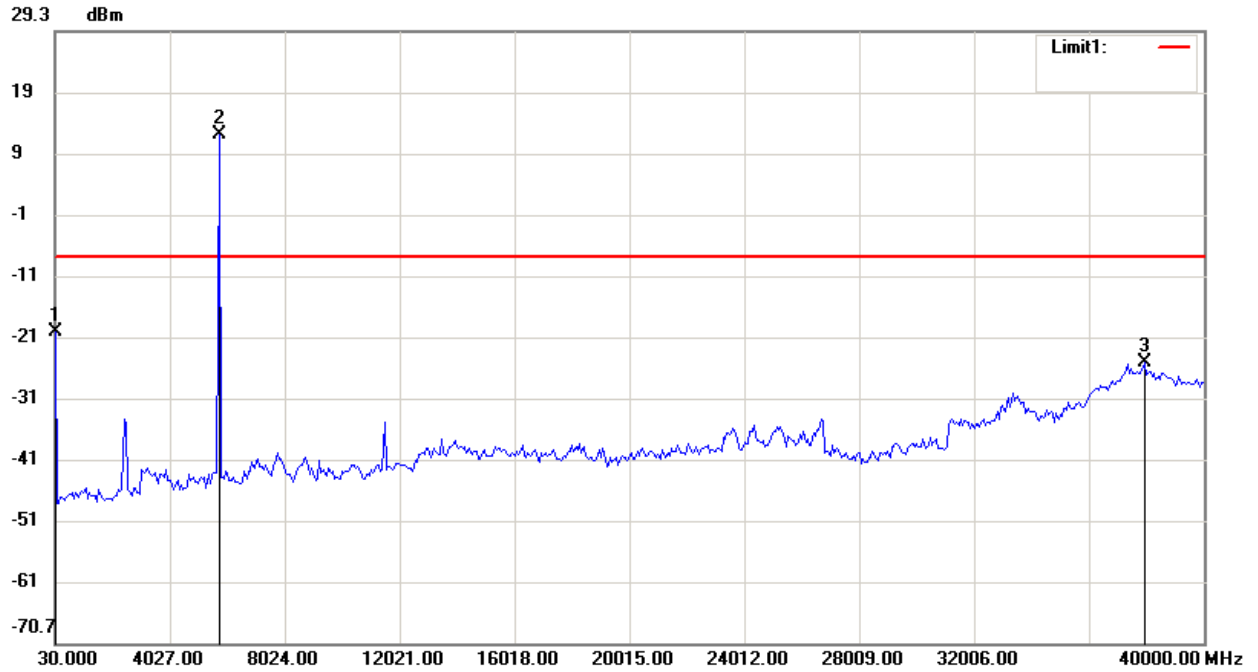
| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5725.00000 | -12.64 |
| 2 | 5746.25000 | 15.83 |



Condition: 802.11a Chain 0+Chain 1
EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11a Channel 165-Bandedge

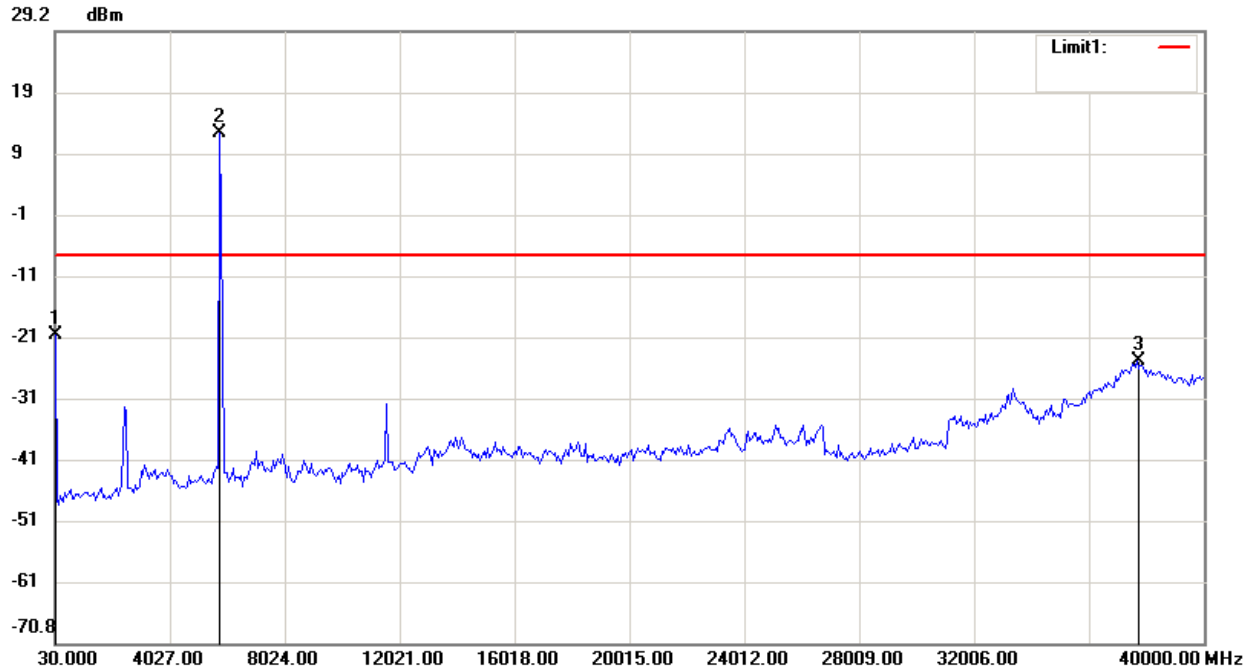
RF Conducted
Sweep Time: 500ms **Att.:** 20dB
RBW: 100 KHz **VBW:** 300 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5826.26670 | 15.39 |
| 2 | 5850.93330 | -18.25 |



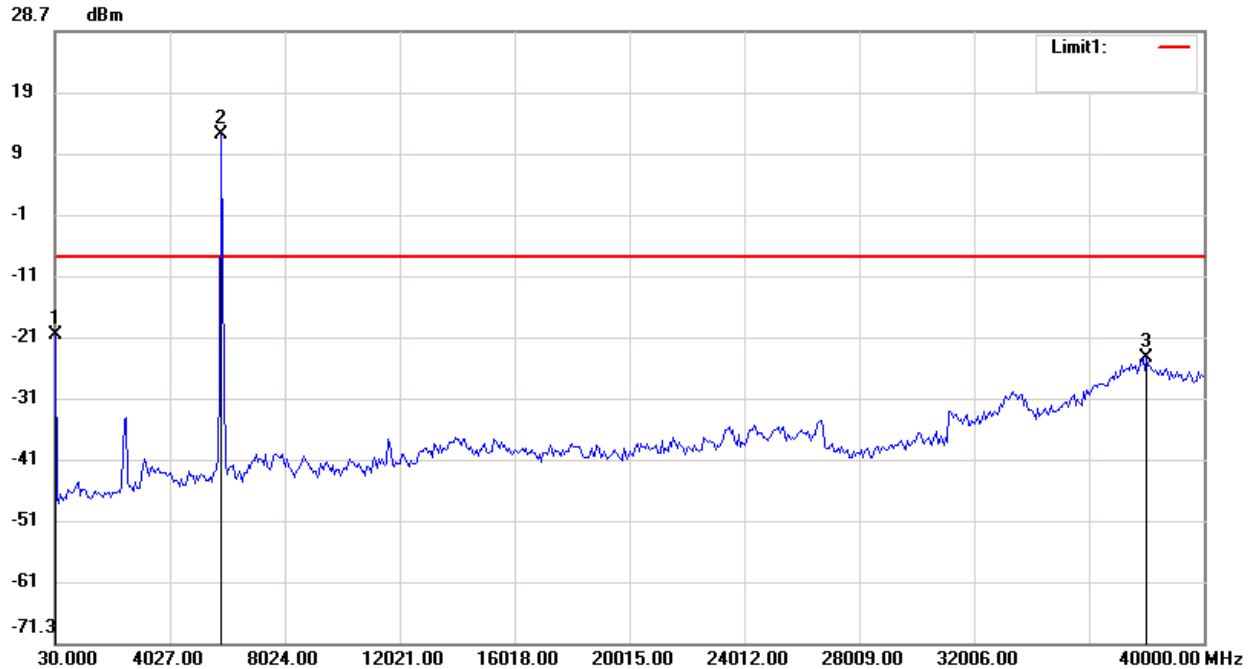
| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 149-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -19.95 |
| 2 | 5759.03330 | 12.31 |
| 3 | 37934.88330 | -24.86 |



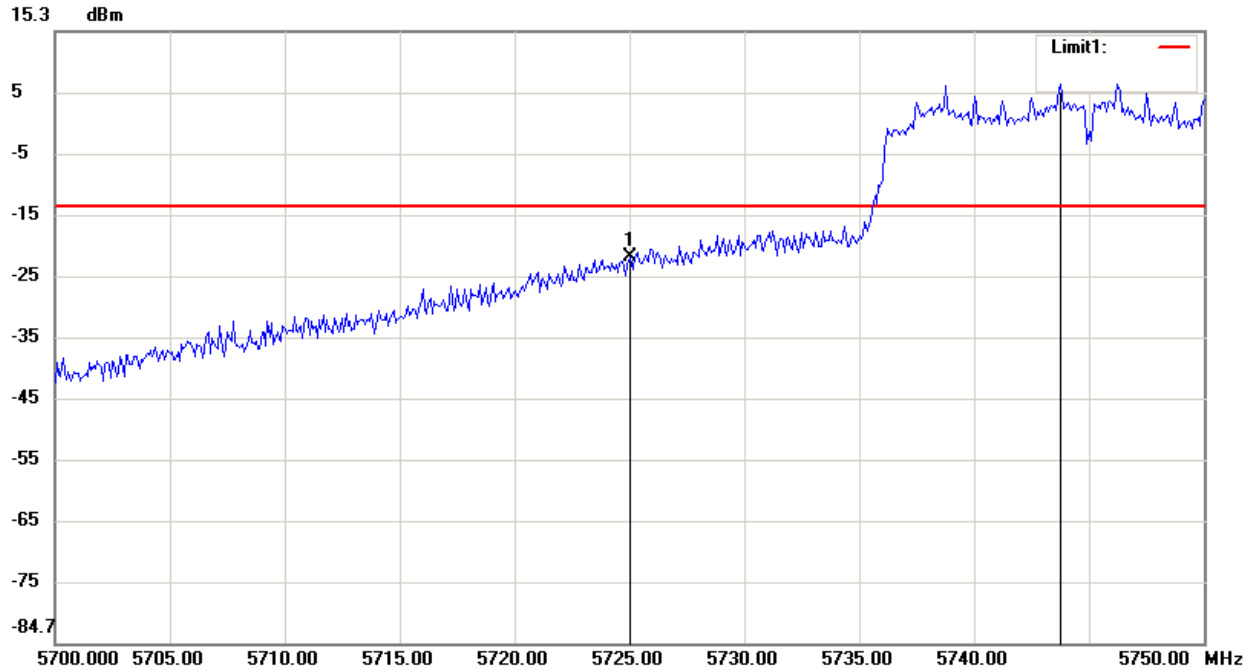
| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 157-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -20.36 |
| 2 | 5759.03330 | 12.58 |
| 3 | 37668.41670 | -24.78 |



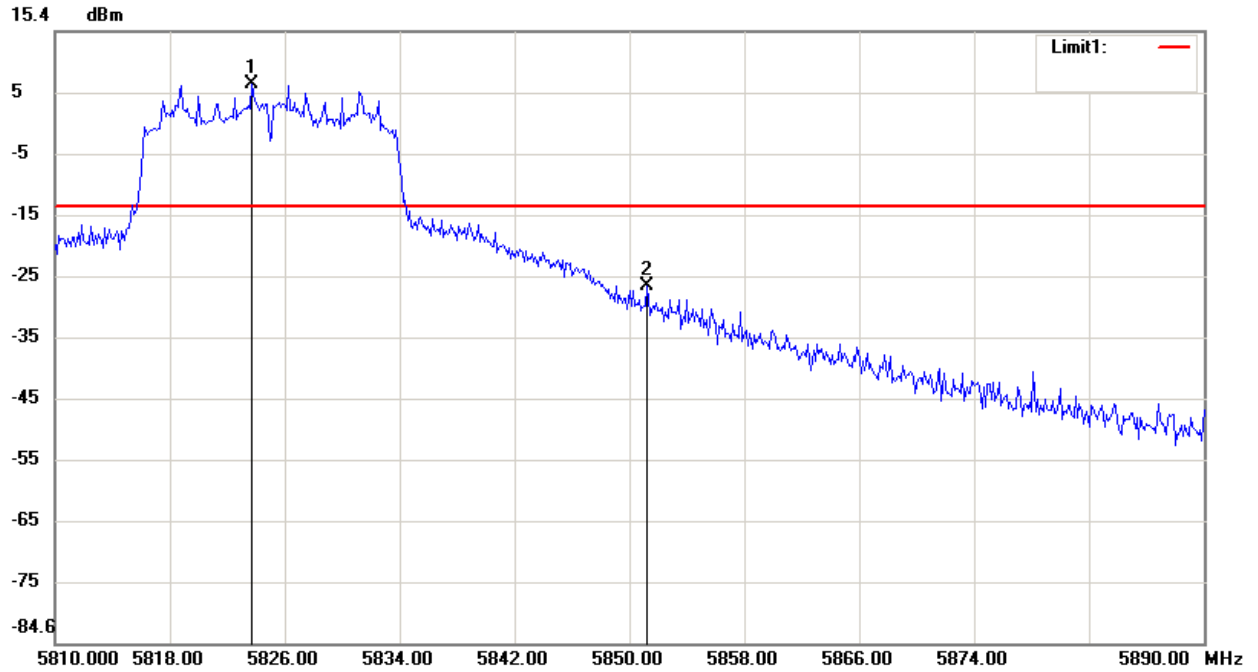
| | | |
|-------------------|---|---|
| Condition: | 802.11a Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 165-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -20.91 |
| 2 | 5825.65000 | 11.86 |
| 3 | 38001.50000 | -24.78 |



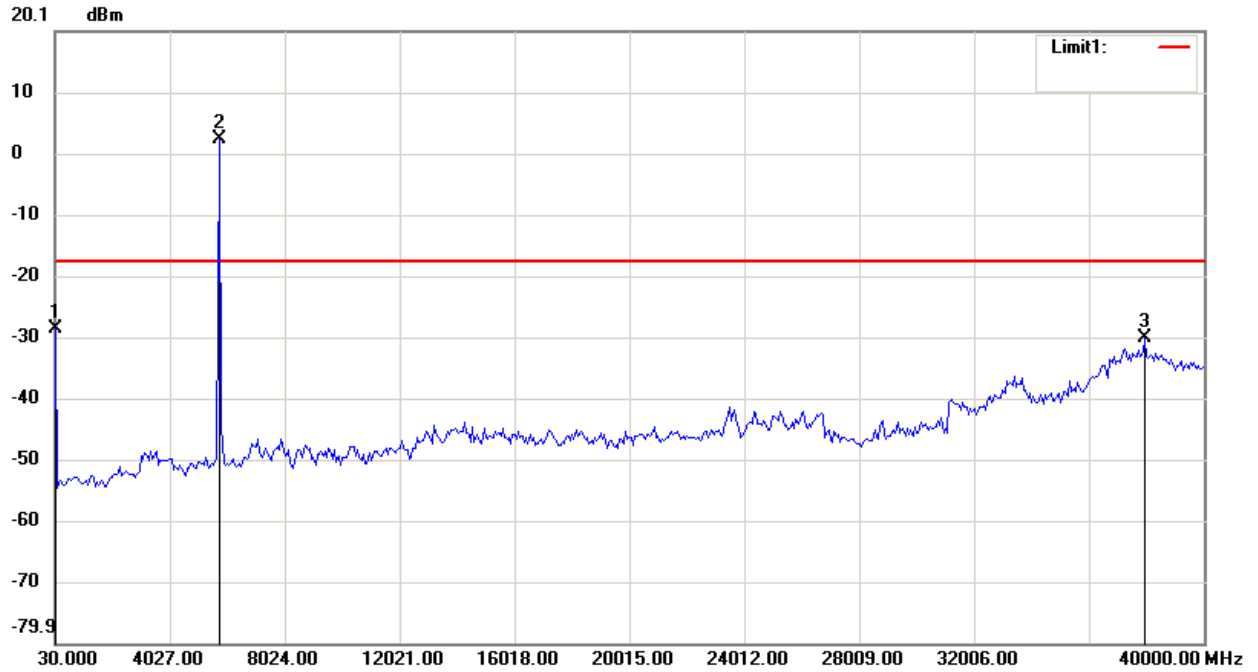
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5725.0000 | -21.47 |
| 2 | 5743.7500 | 6.73 |



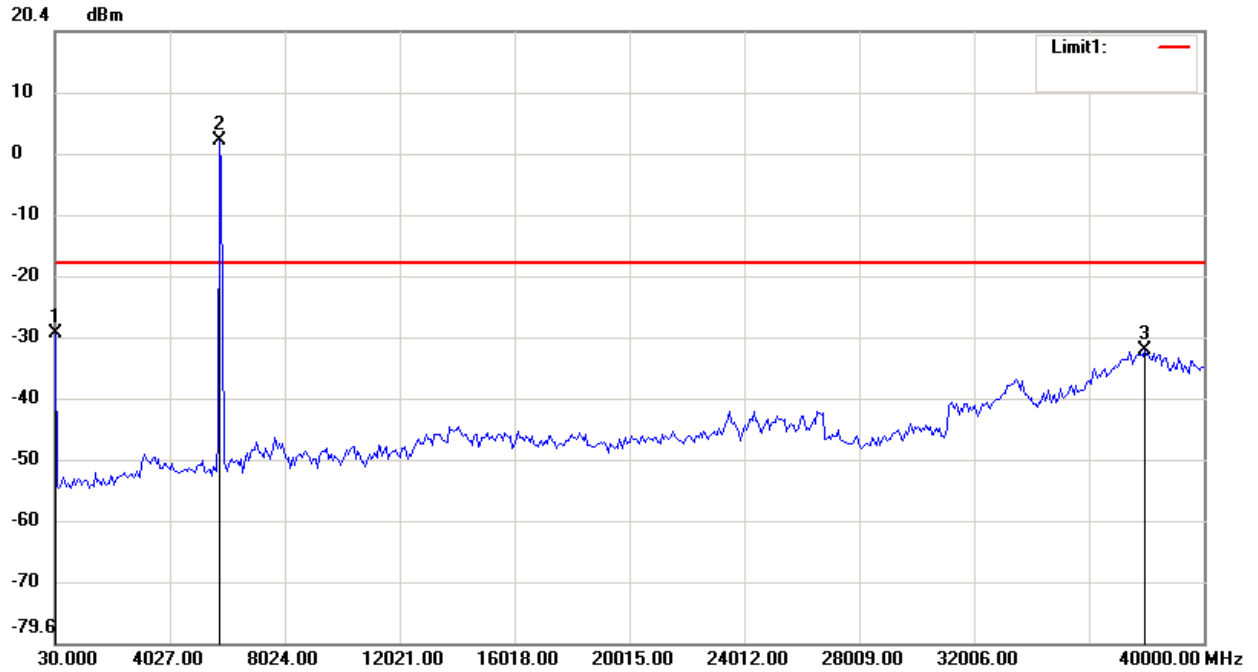
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5823.7333 | 6.83 |
| 2 | 5851.2000 | -26.13 |



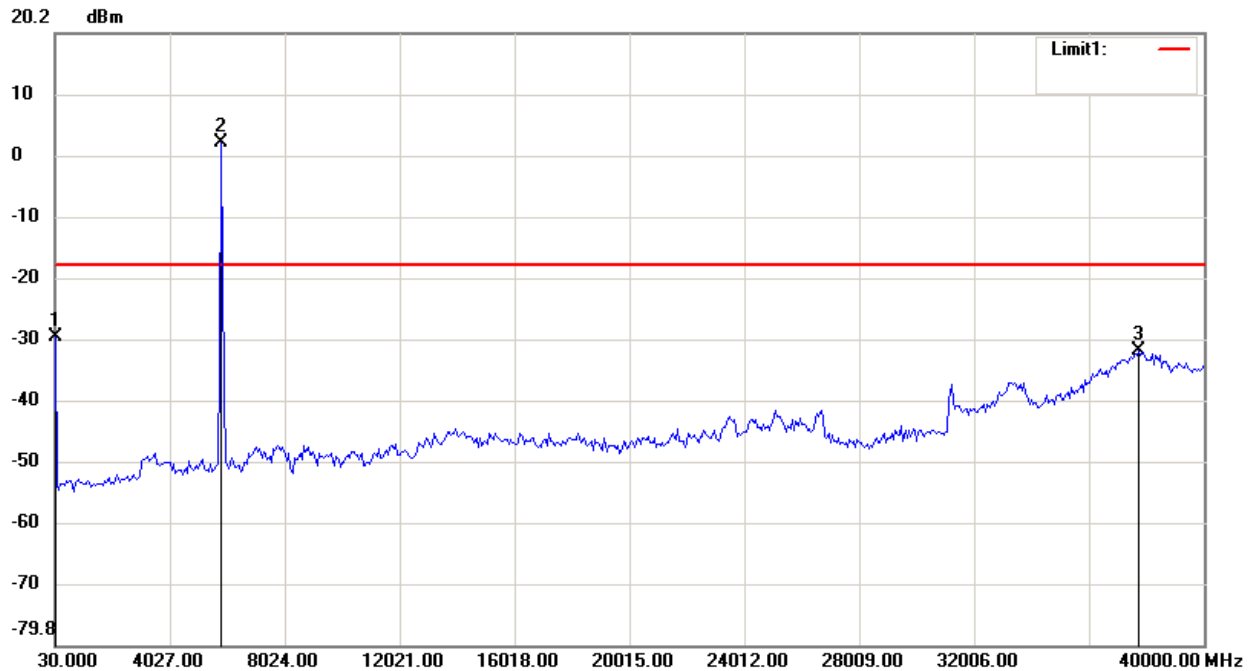
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -28.67 |
| 2 | 5759.0333 | 2.37 |
| 3 | 37934.8833 | -30.08 |



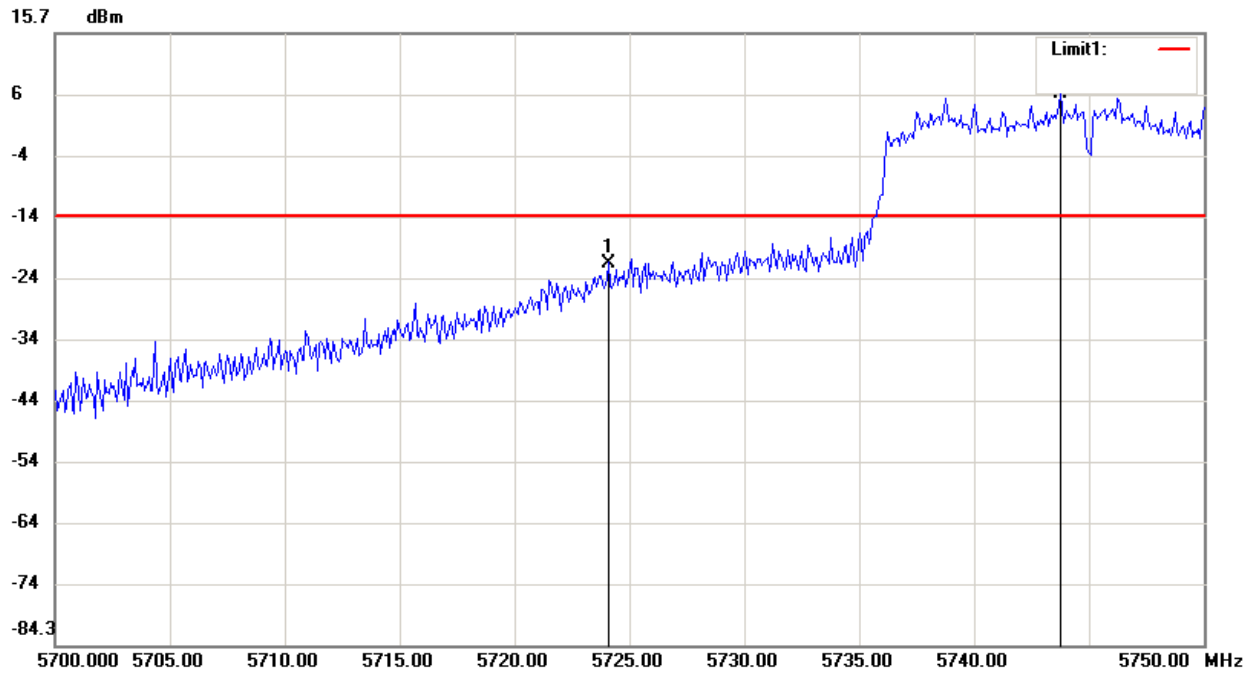
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 157-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -29.00 |
| 2 | 5759.0333 | 2.46 |
| 3 | 37934.8833 | -31.73 |



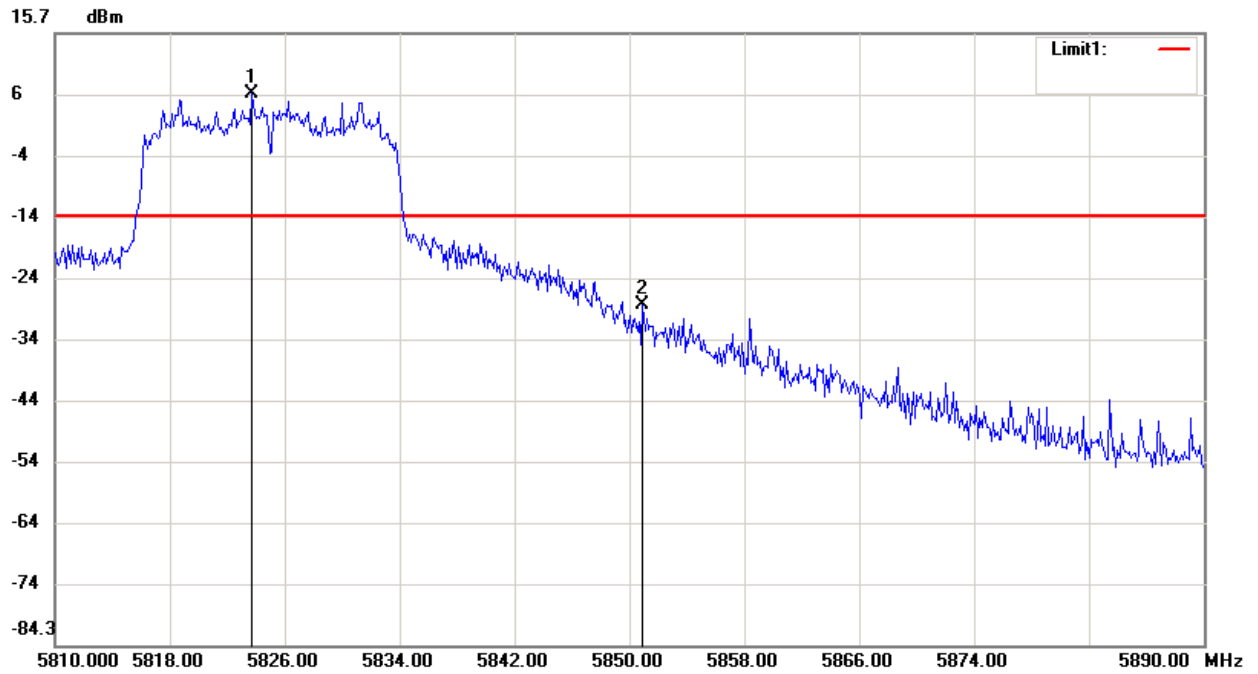
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -29.32 |
| 2 | 5825.6500 | 2.43 |
| 3 | 37735.0333 | -31.74 |



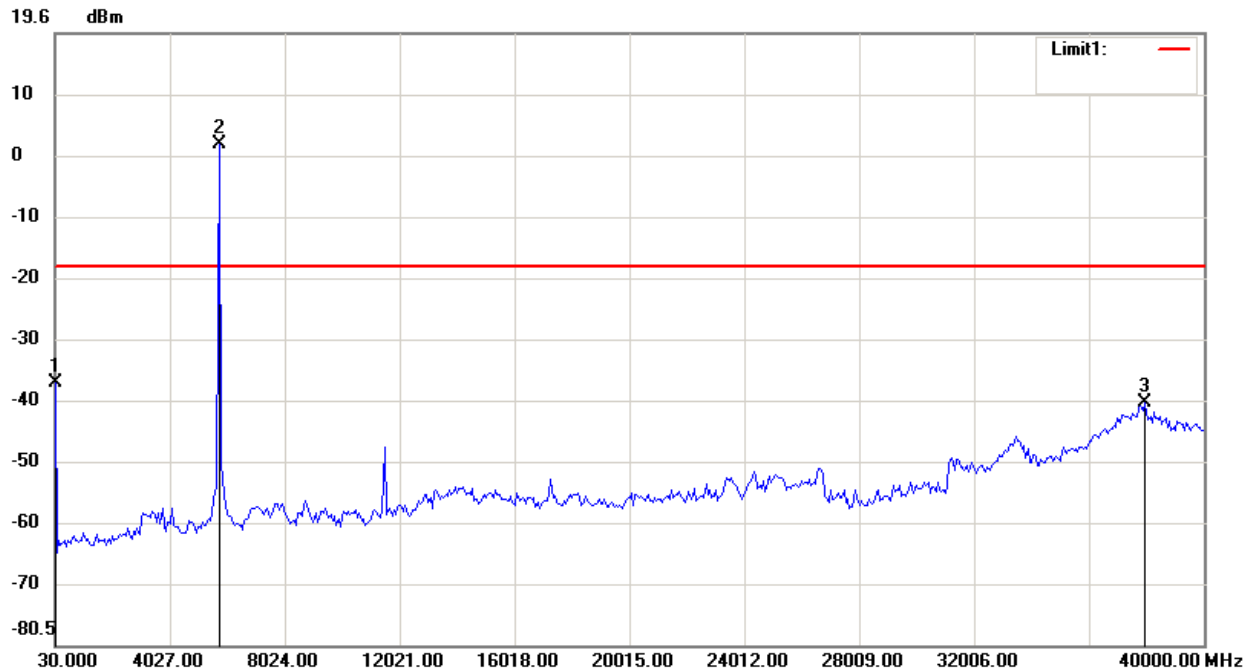
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5724.0833 | -21.79 |
| 2 | 5743.7500 | 5.80 |



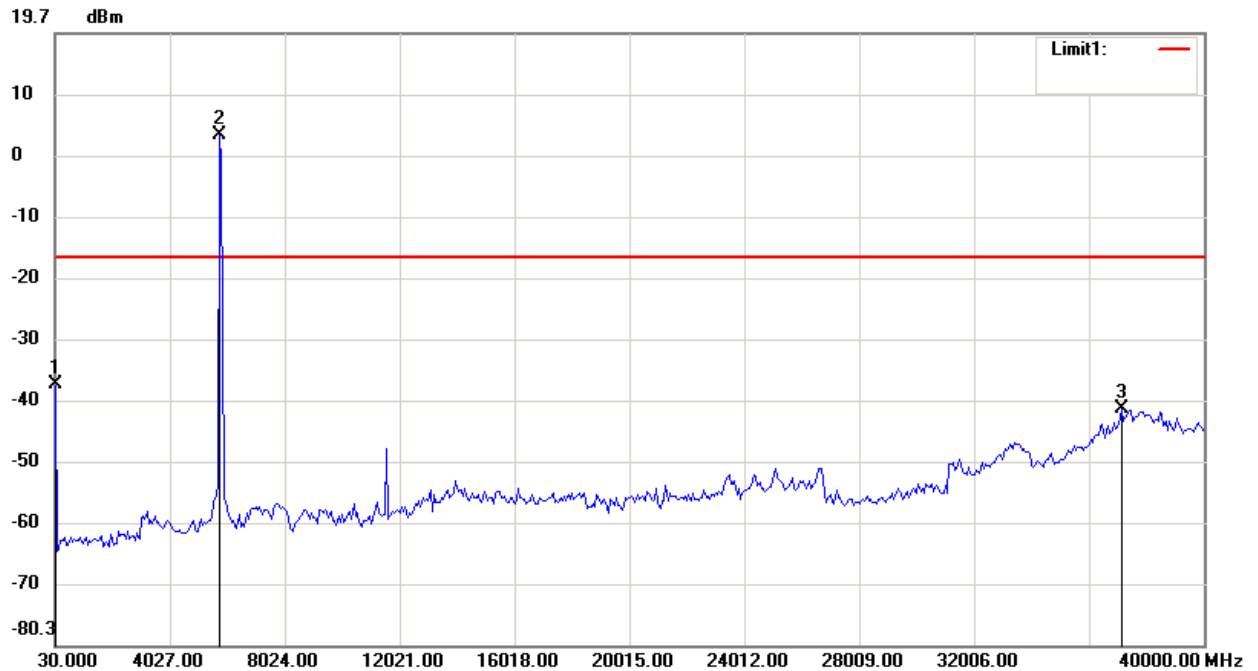
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5823.7333 | 5.85 |
| 2 | 5850.9333 | -28.74 |



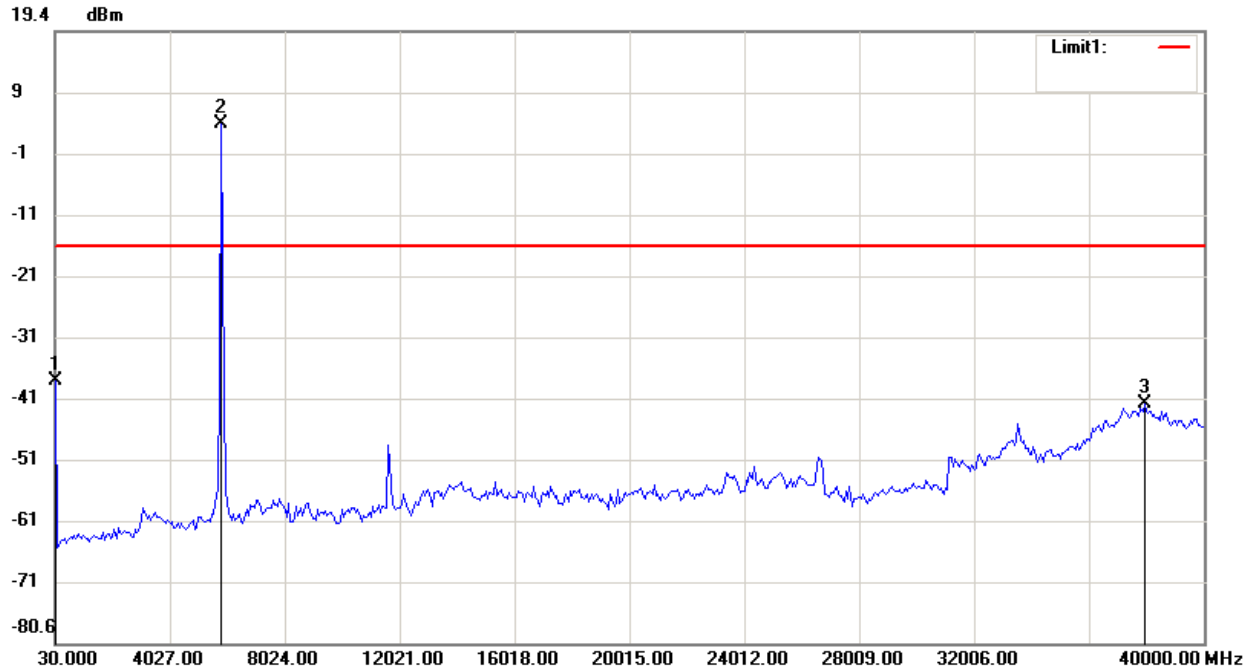
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -37.59 |
| 2 | 5759.0333 | 1.51 |
| 3 | 37934.8833 | -40.77 |



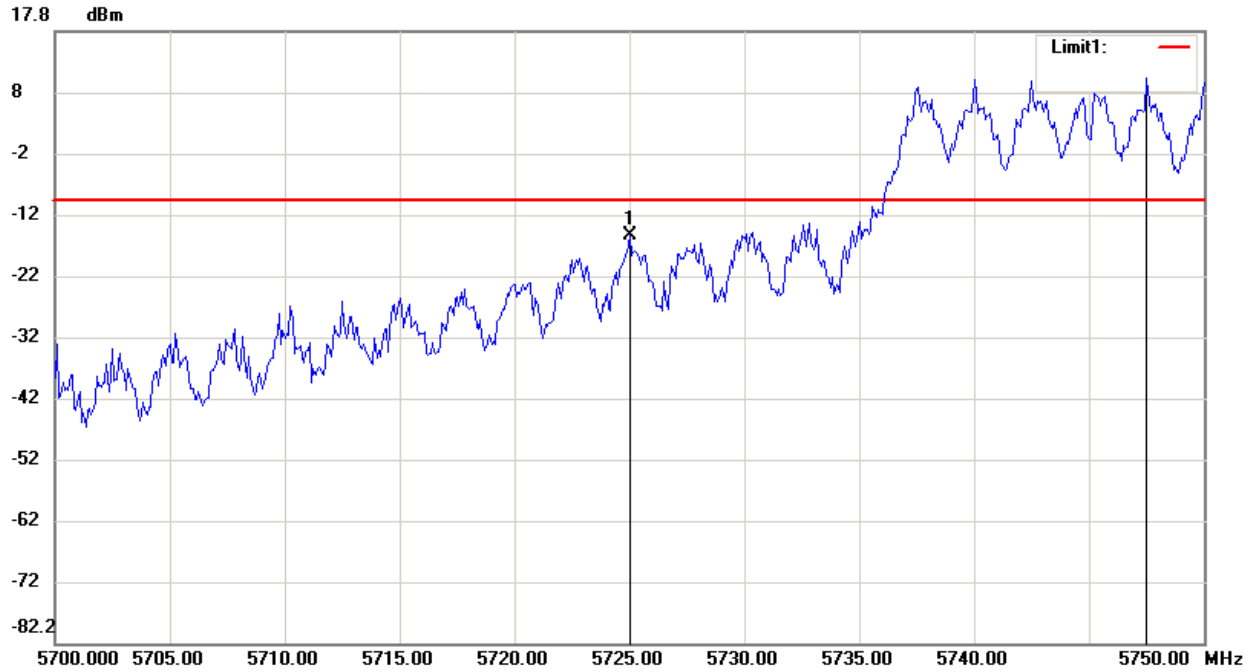
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 157-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -37.76 |
| 2 | 5759.0333 | 3.08 |
| 3 | 37135.4833 | -41.72 |



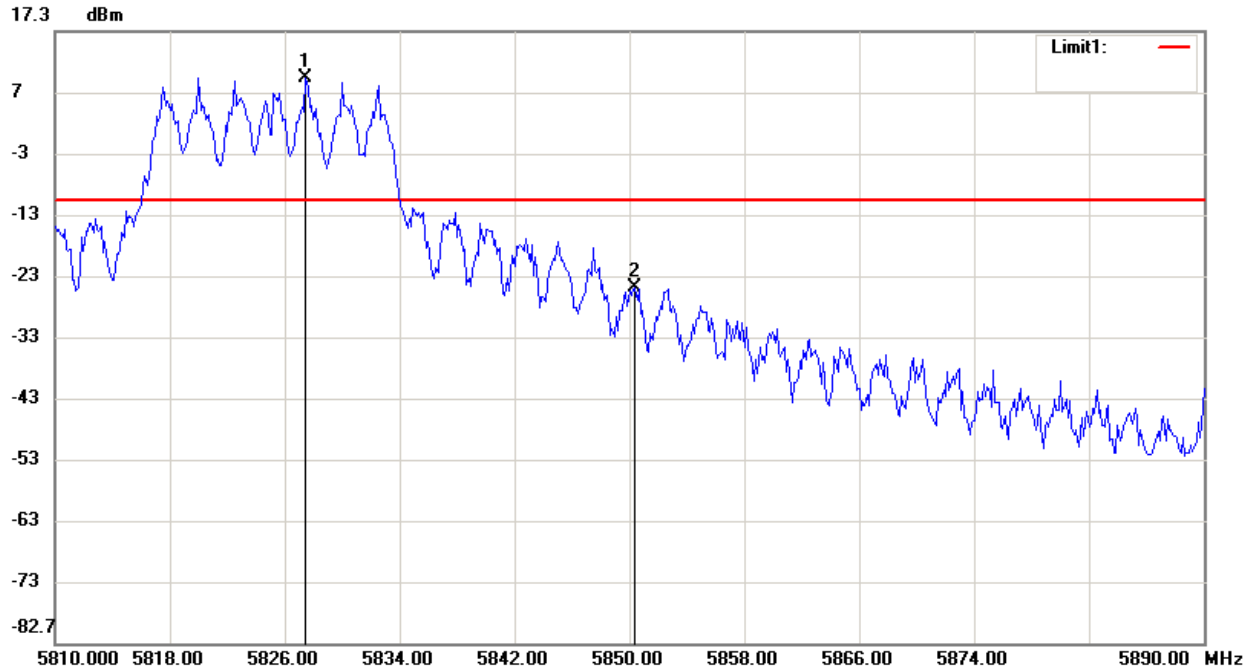
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -37.83 |
| 2 | 5825.6500 | 4.17 |
| 3 | 37934.8833 | -41.62 |



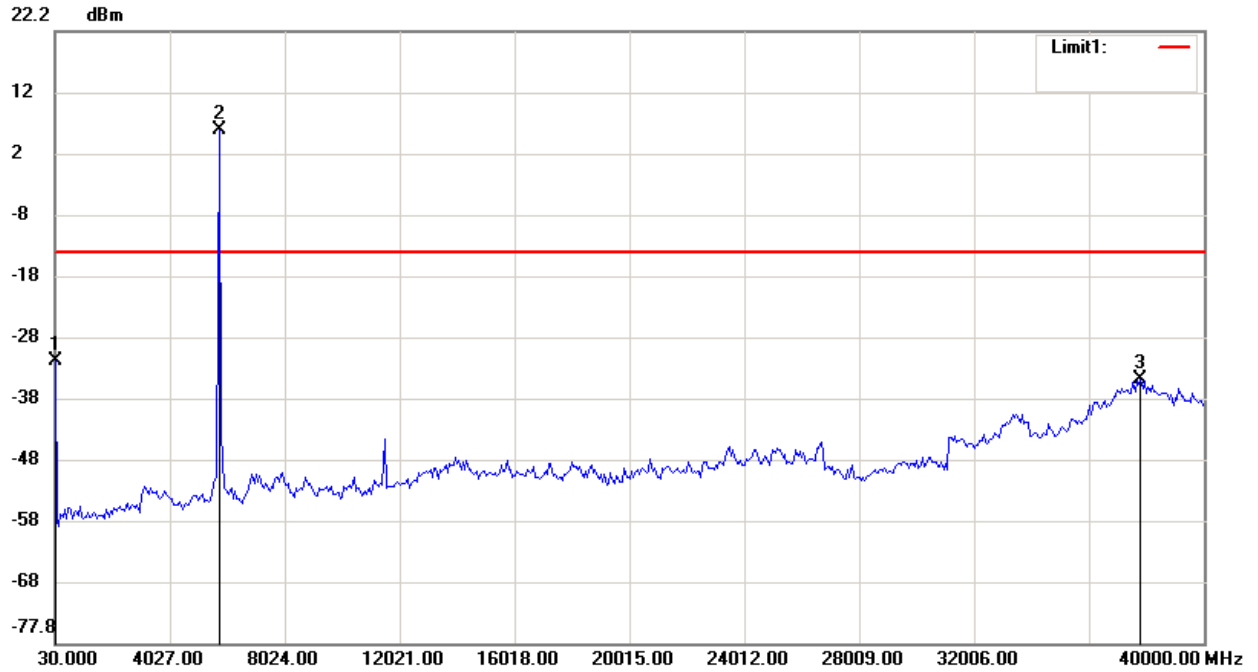
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5725.0000 | -15.44 |
| 2 | 5747.5000 | 10.09 |



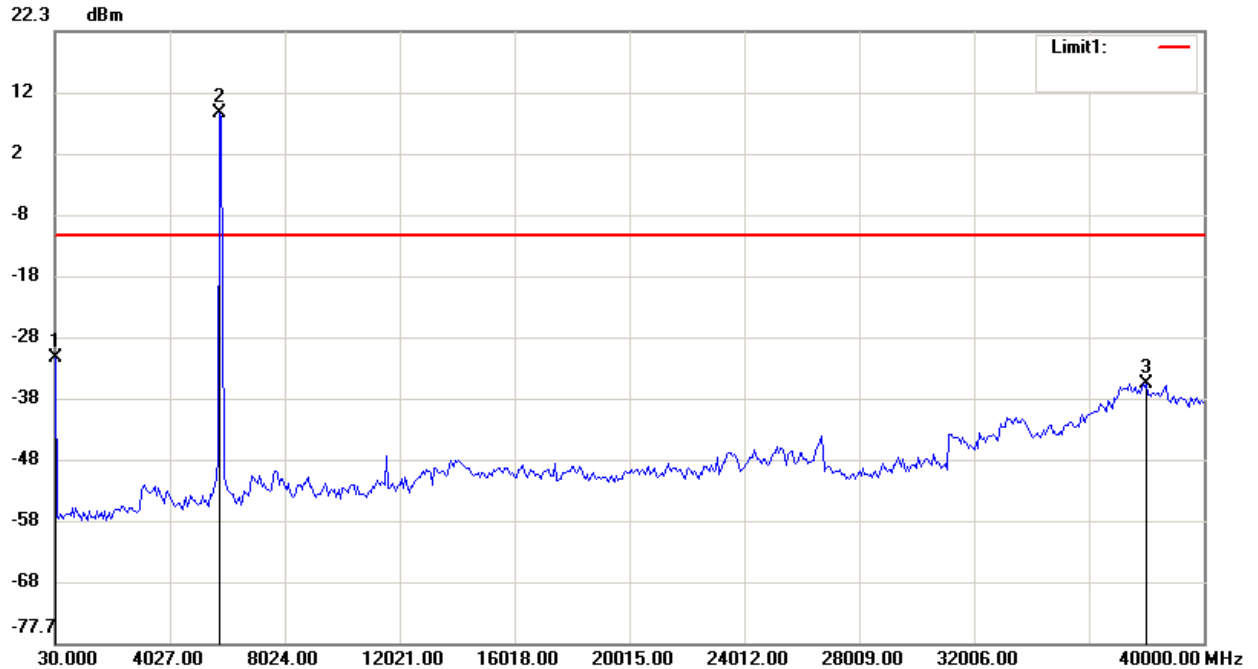
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5827.4667 | 9.68 |
| 2 | 5850.4000 | -24.68 |



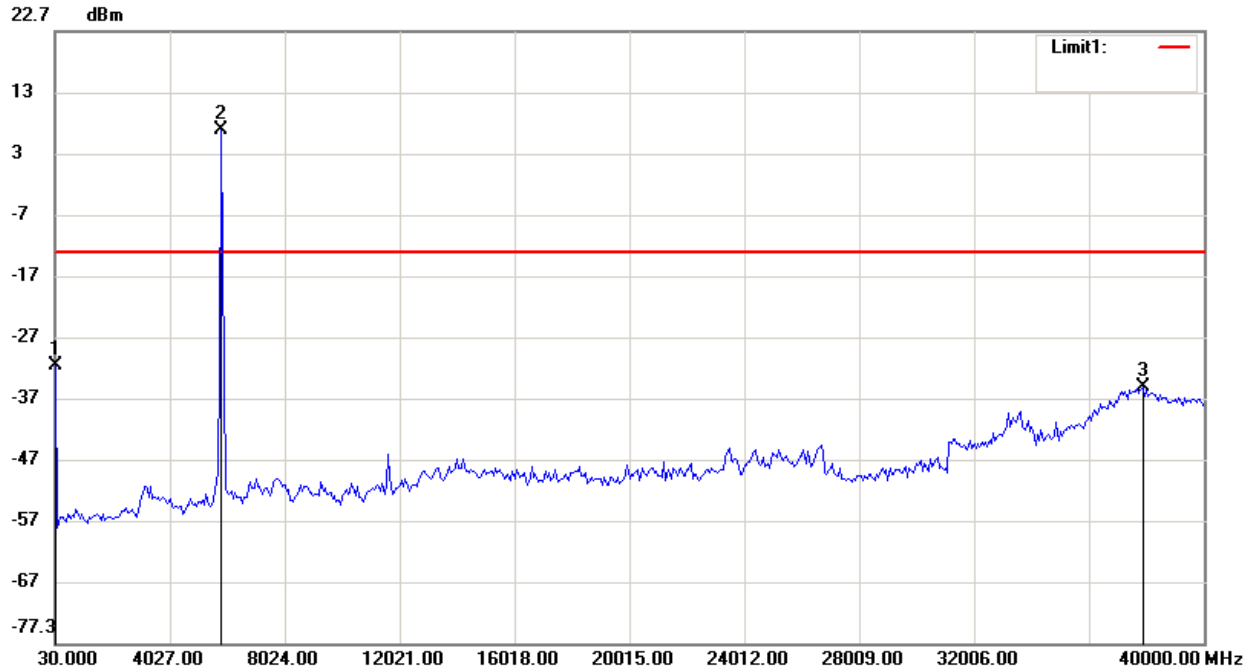
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -31.66 |
| 2 | 5759.0333 | 6.11 |
| 3 | 37801.6500 | -34.57 |



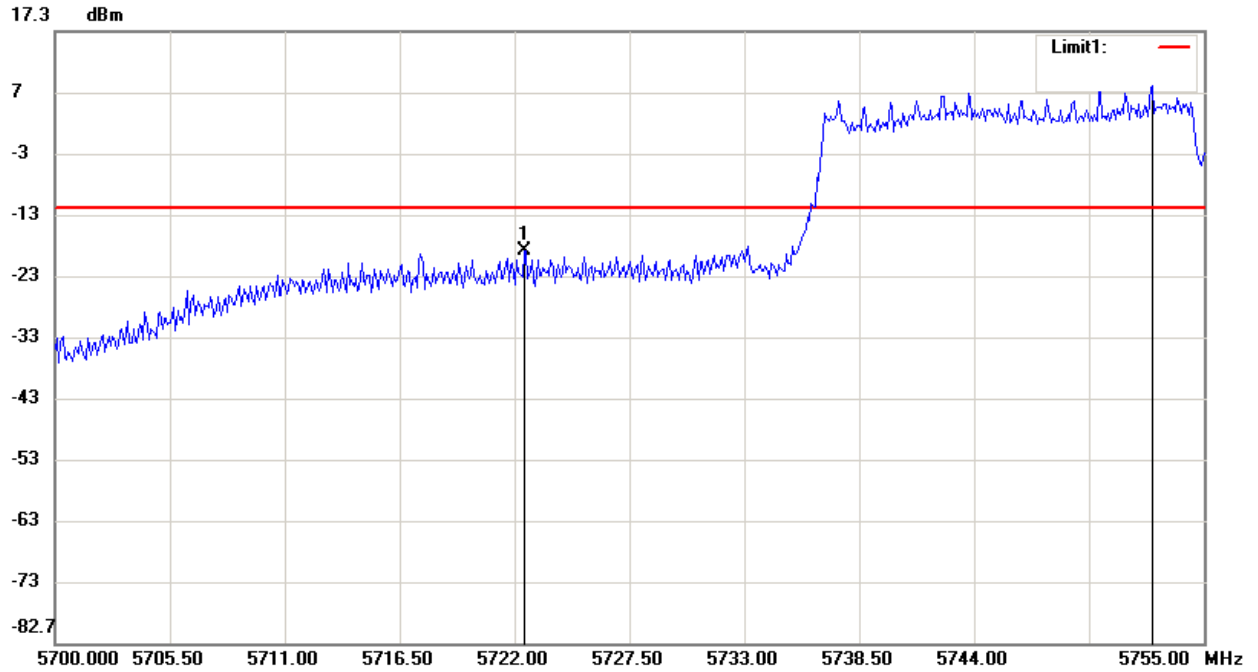
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 157-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -31.02 |
| 2 | 5759.0333 | 8.98 |
| 3 | 38001.5000 | -35.33 |



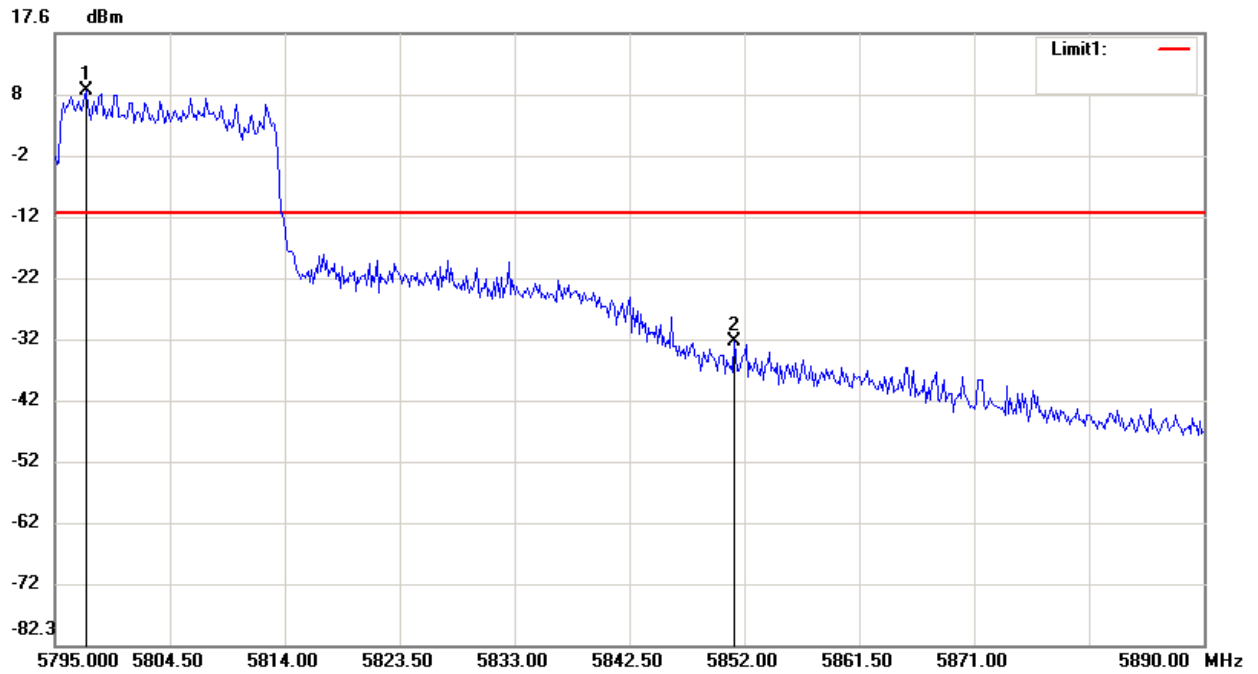
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -31.83 |
| 2 | 5825.6500 | 6.69 |
| 3 | 37868.2667 | -35.50 |



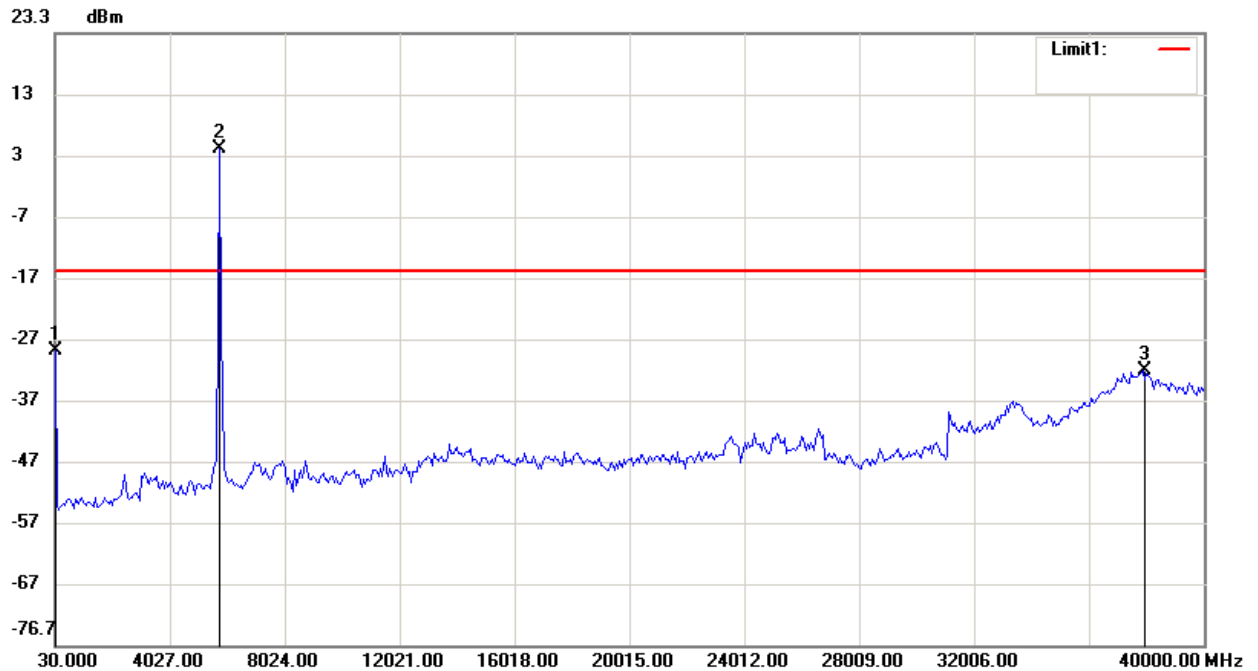
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5722.45830 | -18.57 |
| 2 | 5752.52500 | 8.48 |



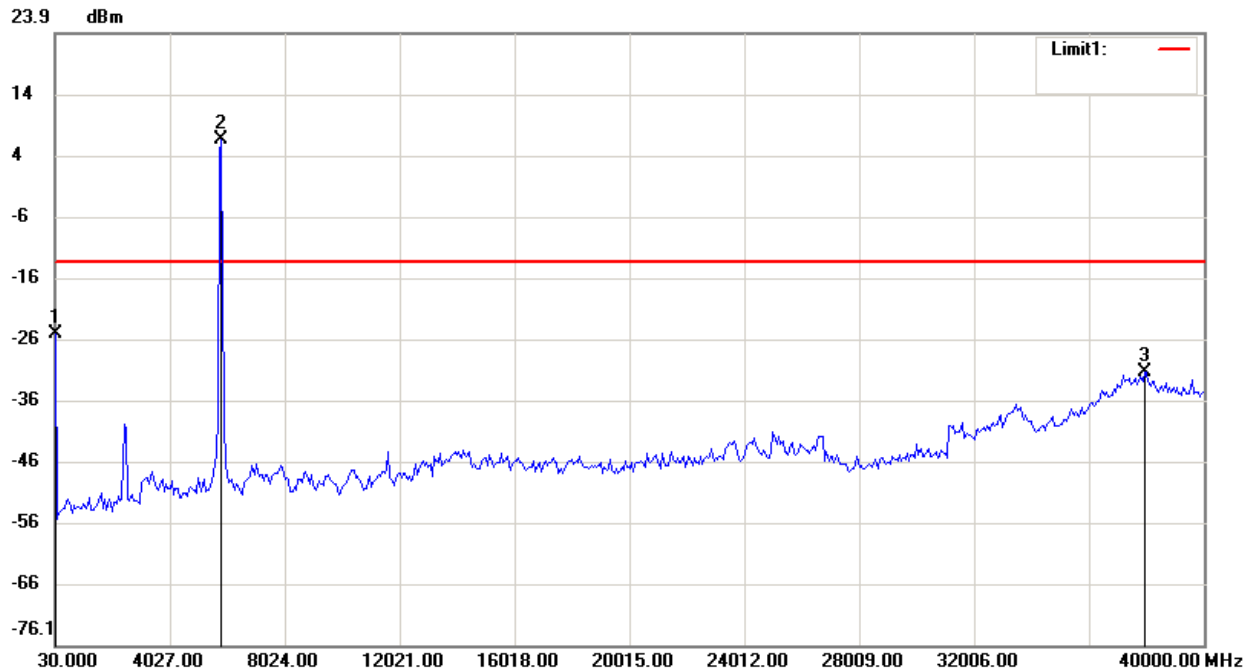
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5797.53330 | 8.23 |
| 2 | 5851.20830 | -32.63 |



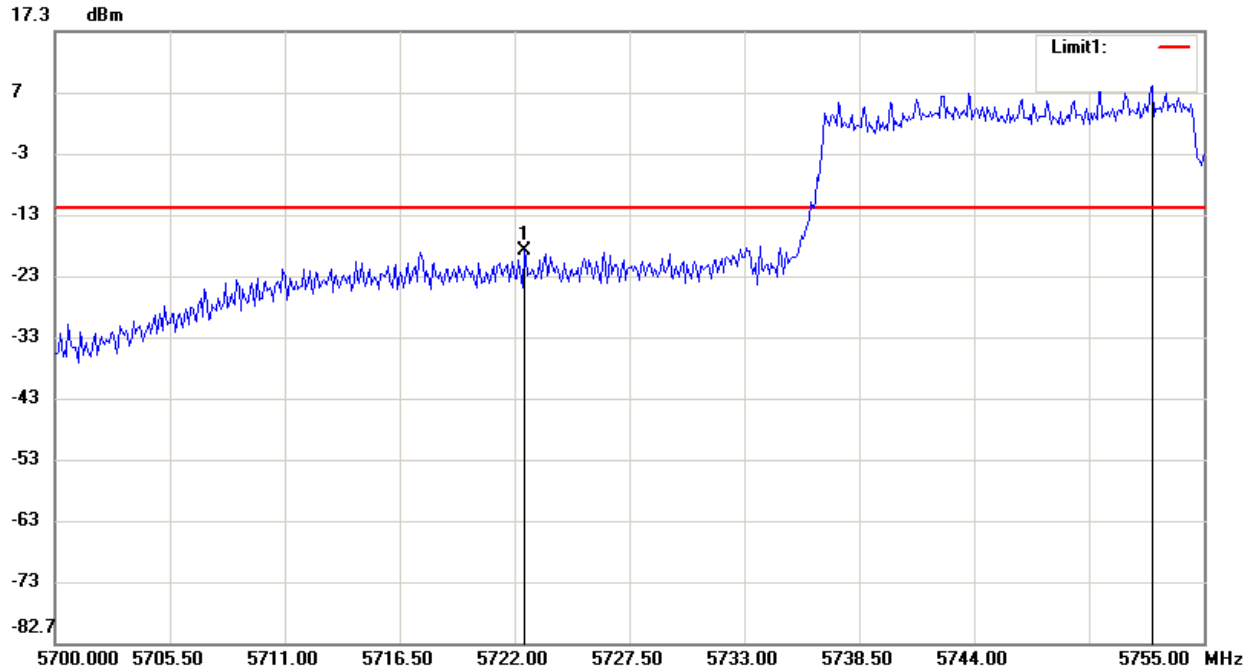
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -28.50 |
| 2 | 5759.03330 | 4.43 |
| 3 | 37868.26670 | -31.81 |



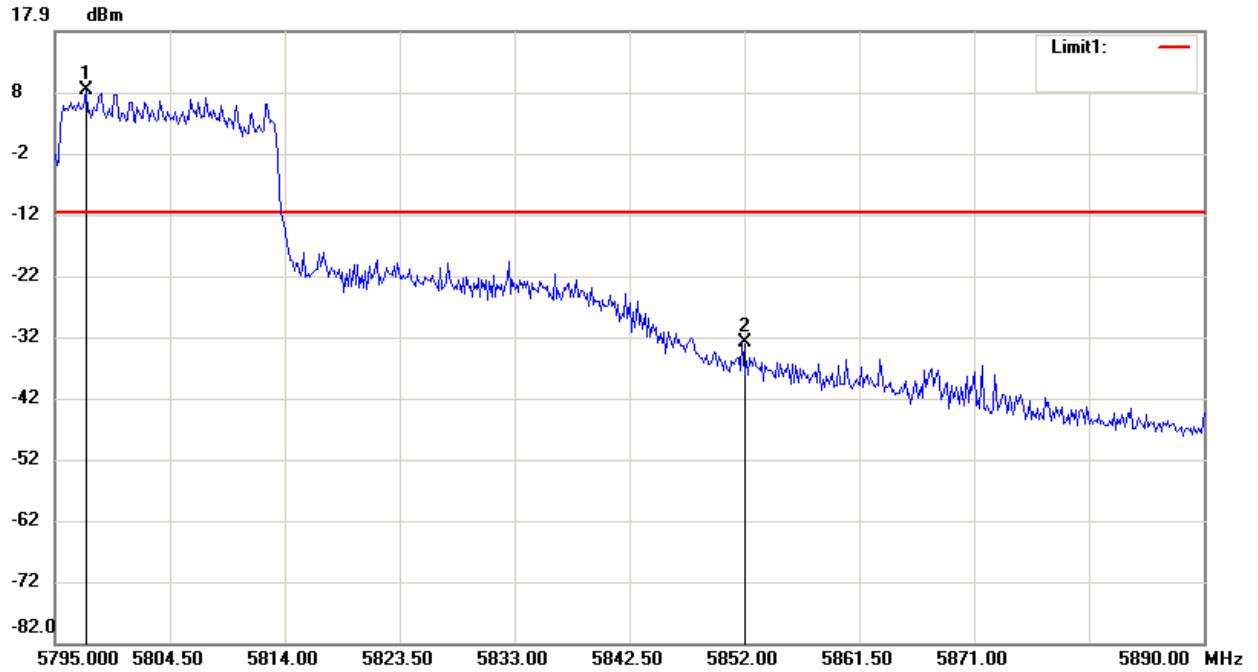
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -25.09 |
| 2 | 5825.65000 | 6.59 |
| 3 | 37934.88330 | -31.32 |



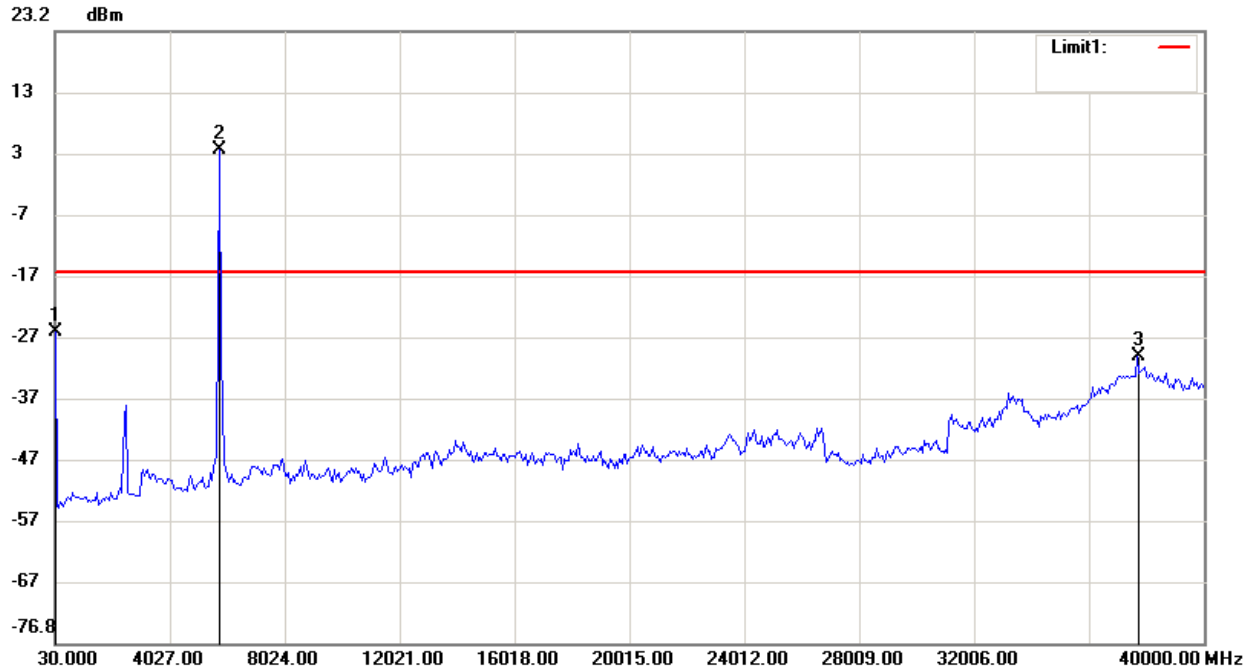
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5722.45830 | -18.60 |
| 2 | 5752.52500 | 8.53 |



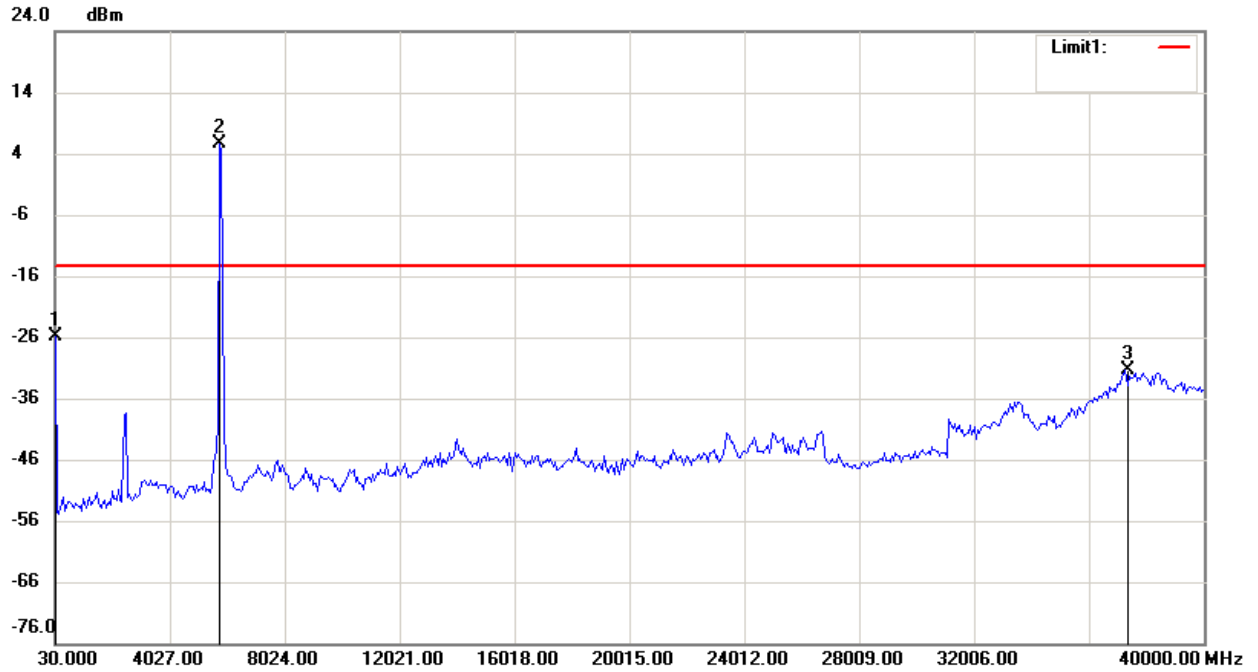
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5797.53330 | 8.28 |
| 2 | 5851.84170 | -32.92 |



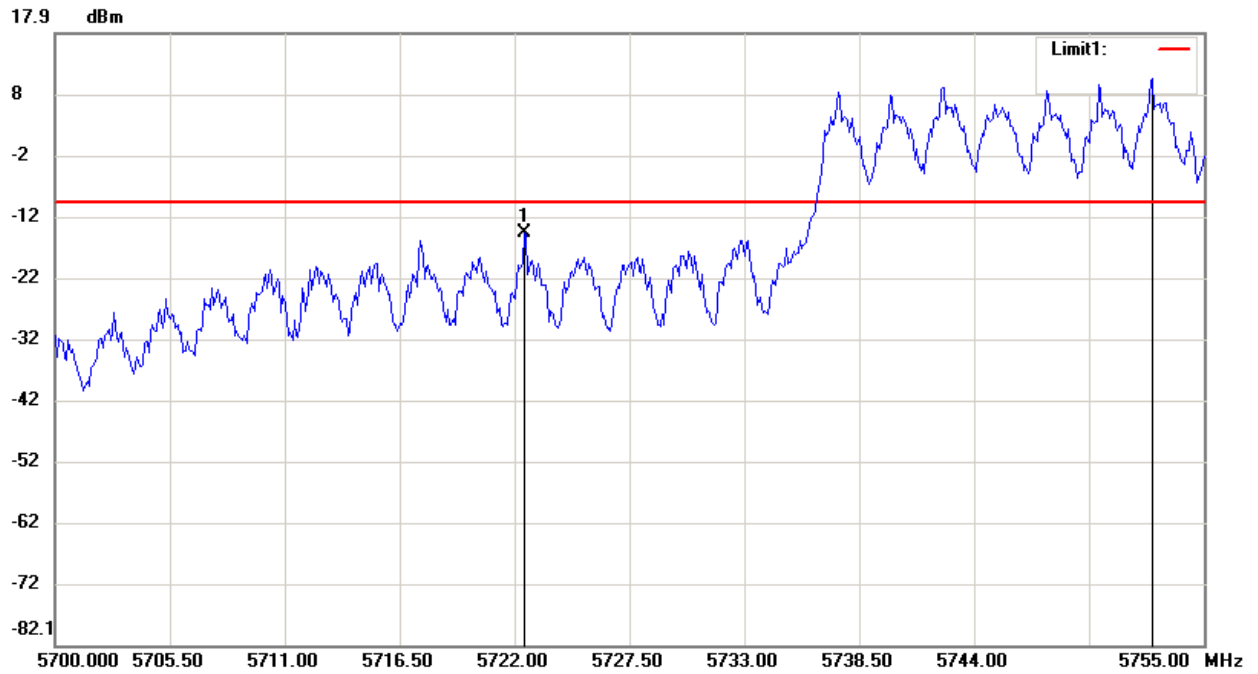
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -25.95 |
| 2 | 5759.03330 | 3.79 |
| 3 | 37668.41670 | -29.89 |



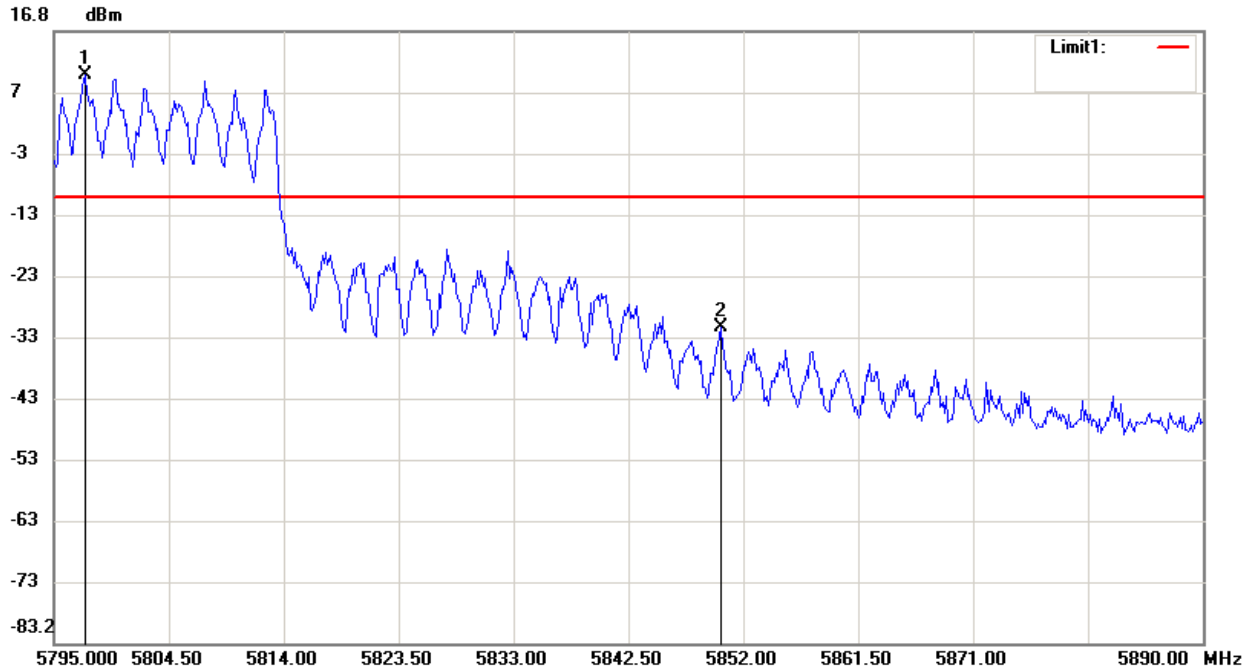
| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -25.84 |
| 2 | 5759.03330 | 5.73 |
| 3 | 37268.71670 | -31.36 |



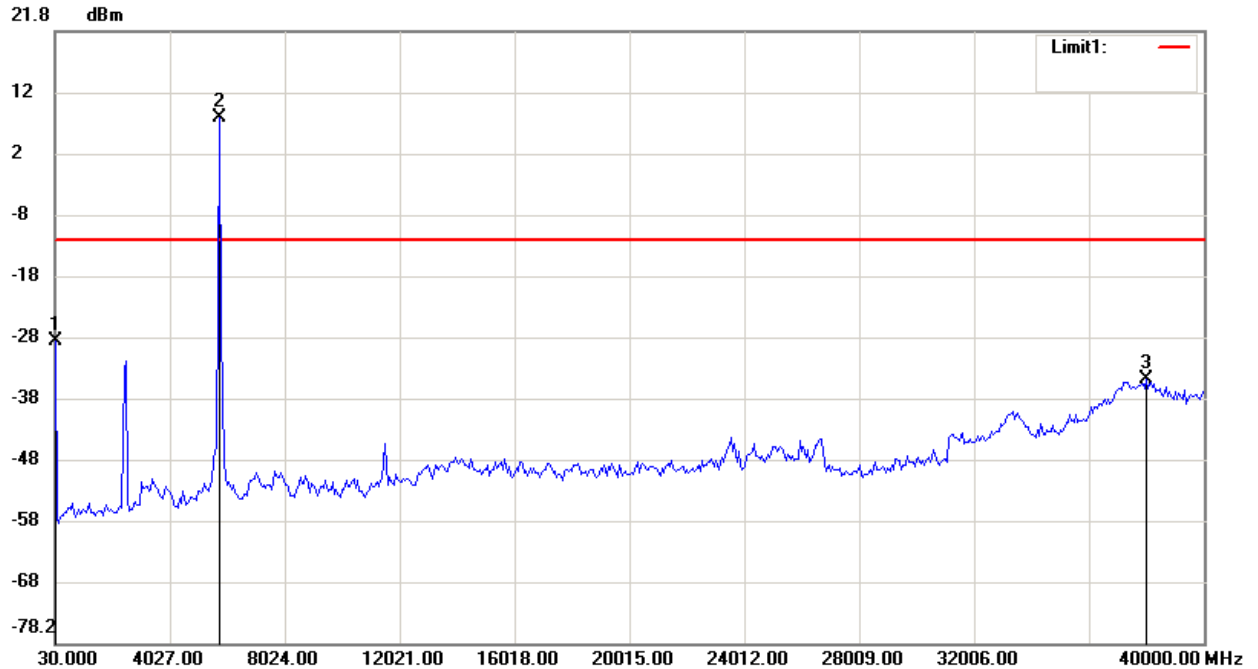
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5722.45830 | -14.61 |
| 2 | 5752.52500 | 10.44 |



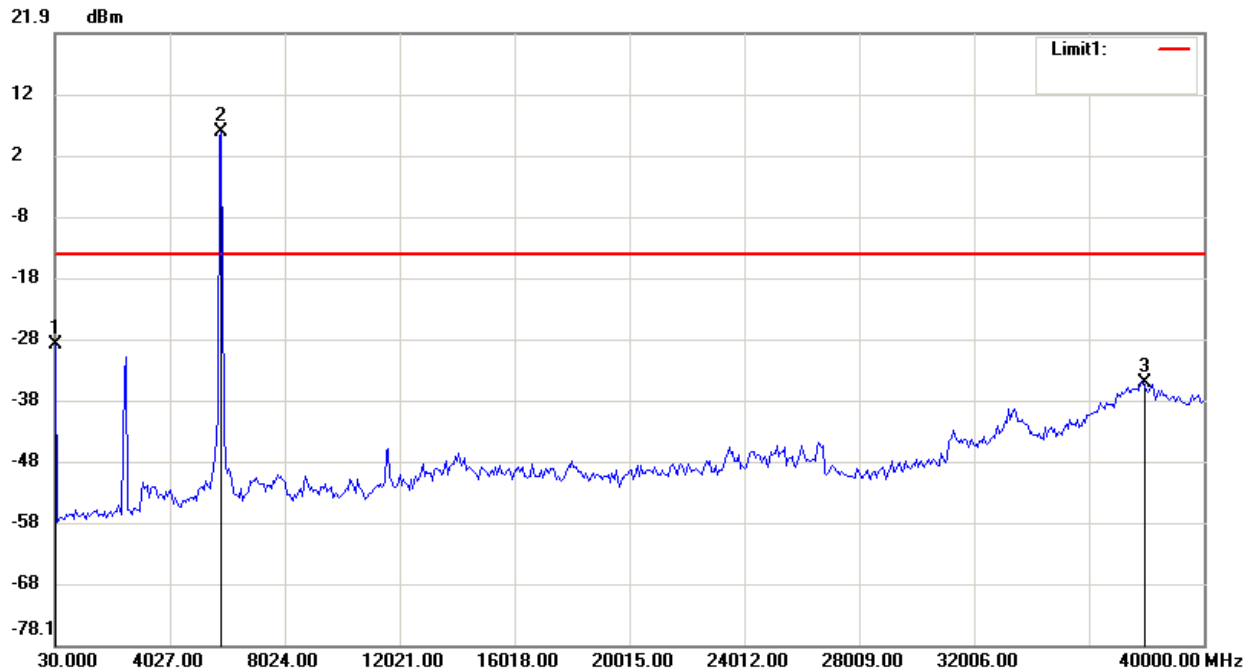
| | | |
|-------------------|---|-------------------------------------|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 500ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Bandedge | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5797.53330 | 9.78 |
| 2 | 5850.10000 | -31.47 |



| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -28.89 |
| 2 | 5759.03330 | 7.69 |
| 3 | 38001.50000 | -35.08 |



| | | |
|-------------------|---|---|
| Condition: | 802.11an Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 3819.92ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 100 KHz VBW: 300 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Conducted Spurious | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 30.0000 | -28.99 |
| 2 | 5825.65000 | 5.88 |
| 3 | 37868.26670 | -35.20 |

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5.1.5 Power Spectral Density

RESULT:**Passed**

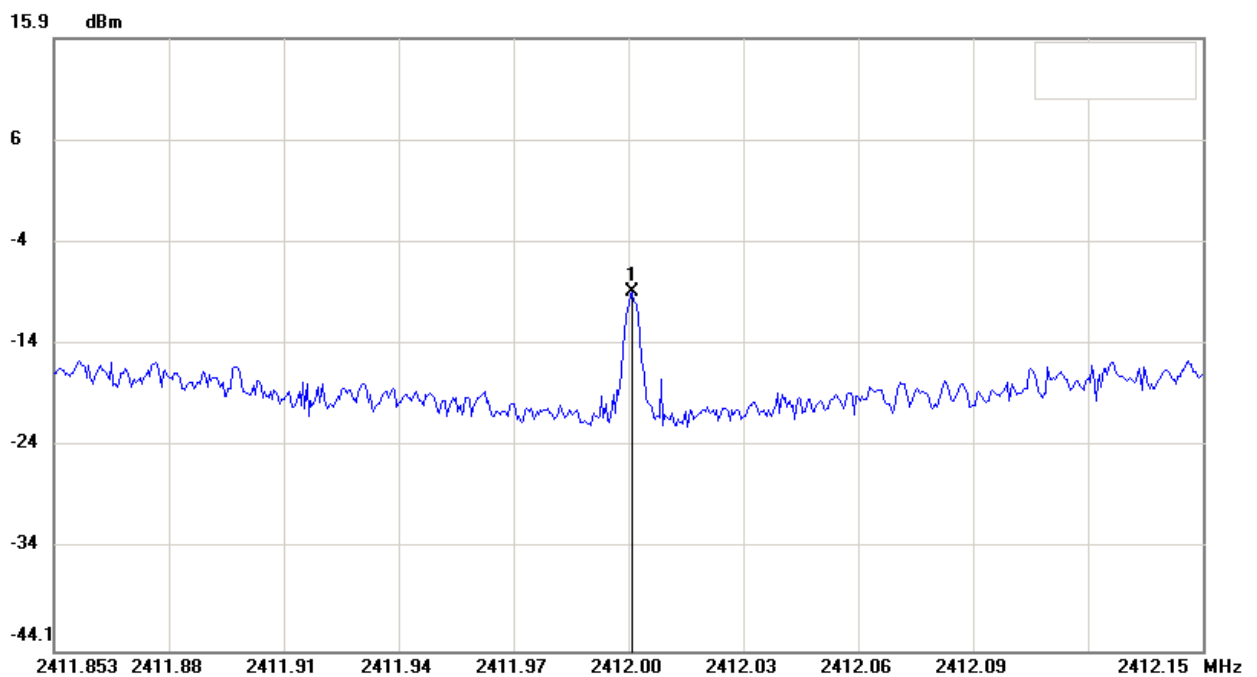
Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC part 15.247(e)
RSS-210 A8.2(b)
Basic standard : ANSI C63.4: 2003
Limits : 8.0 dBm (in any 3kHz band)
Kind of test site : Shield room

Test Setup

Test Channel : Low/ Middle/ High
Operation mode : A
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa

Table 21: Test result of Power Spectral Density, 802.11b

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | Limit (dBm) |
|--------------|-------------------------|------------------------------|-------------|
| Low Channel | 2412 | -8.93 | 8 |
| Mid Channel | 2437 | -9.72 | 8 |
| High Channel | 2462 | -8.20 | 8 |



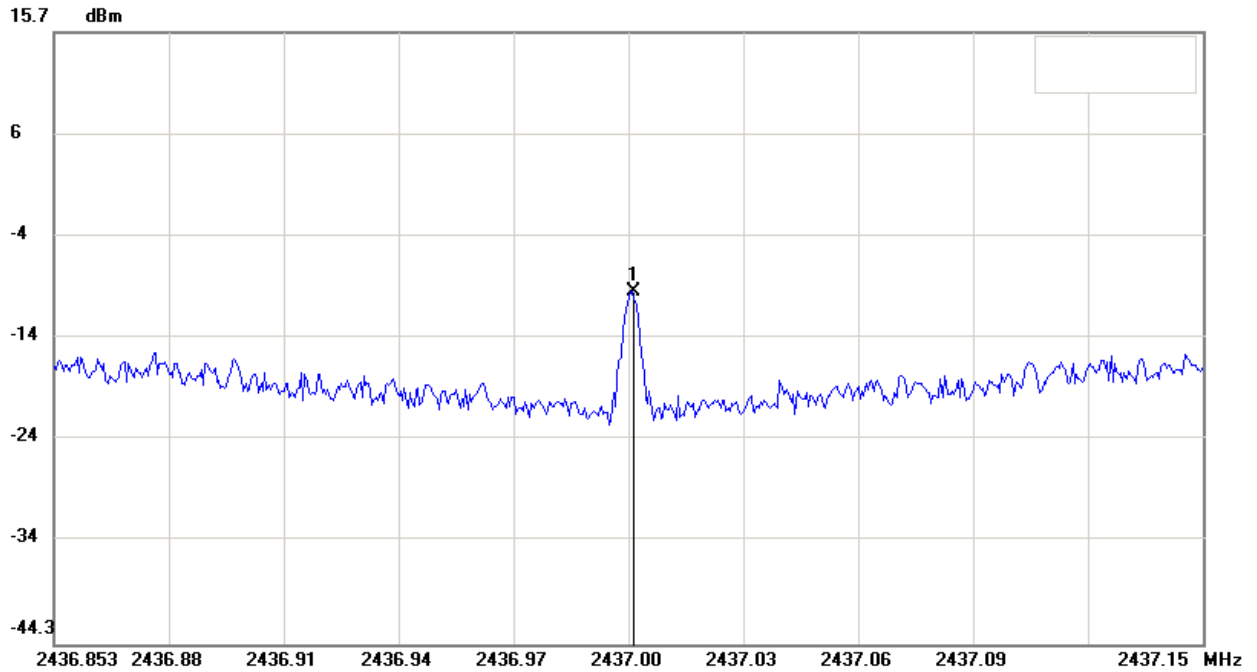
| | | |
|-------------------|---|---|
| Condition: | | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 100000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11b Channel 01-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2412.00350 | -8.93 |

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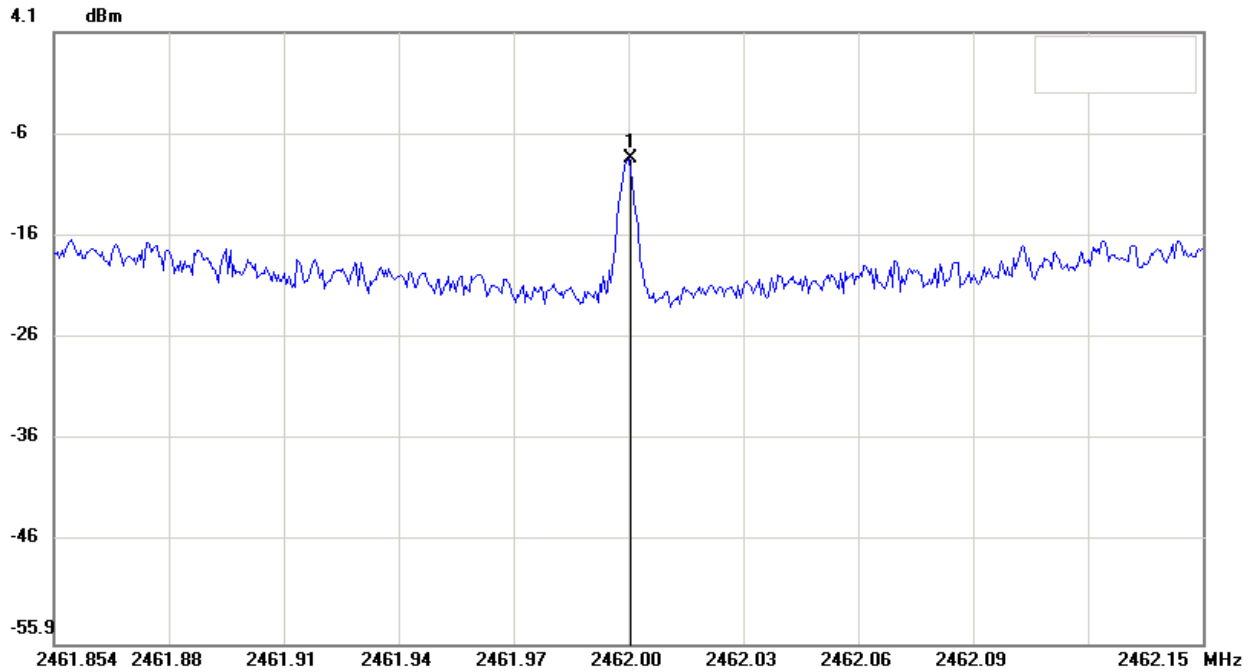
Condition:

EUT: Wi-Fi Invite Home Hub
Model: RF-HTN102
Test Mode: Transmitting
Note: FCC-802.11b Channel 06-Power Density (PK)

RF Conducted

Sweep Time: 100000ms **Att.:** 20dB
RBW: 3 KHz **VBW:** 10 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2437.00360 | -9.72 |


Condition:
EUT: Wi-Fi Invite Home Hub

Model: RF-HTN102

Test Mode: Transmitting

Note: FCC-802.11b Channel 11-Power Density (PK)

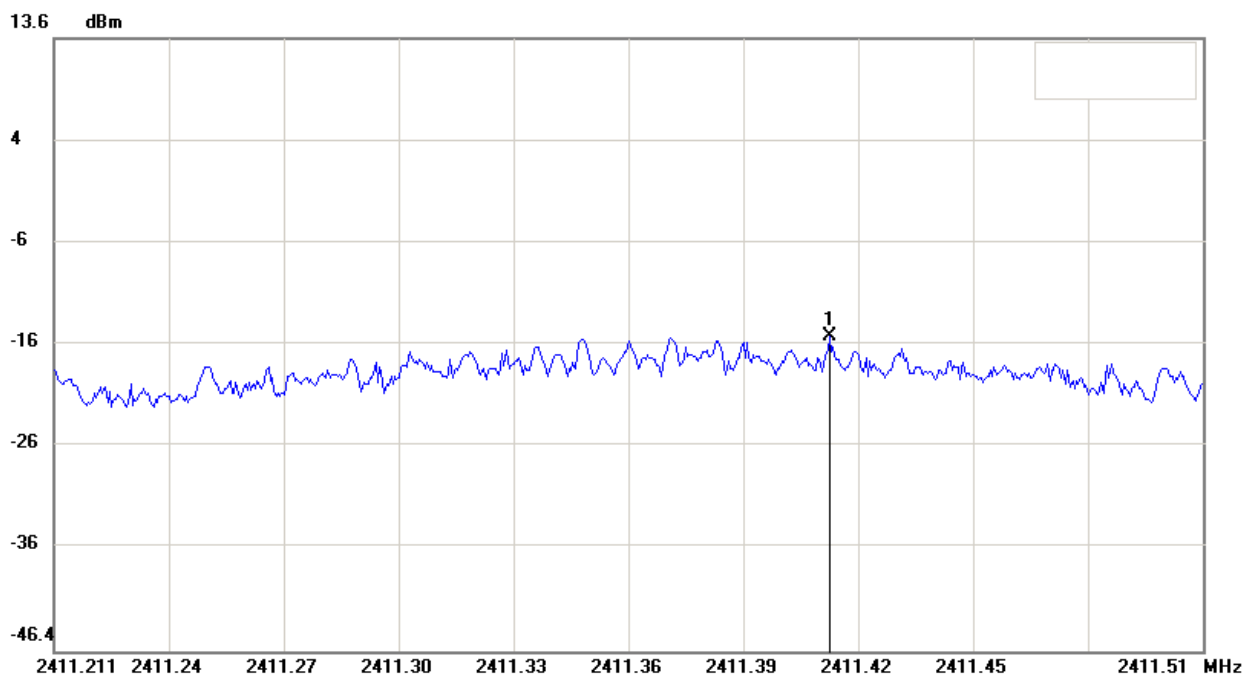
RF Conducted
Sweep Time: 100000ms **Att.:** 10dB

RBW: 3 KHz **VBW:** 10 KHz

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2462.00370 | -8.20 |

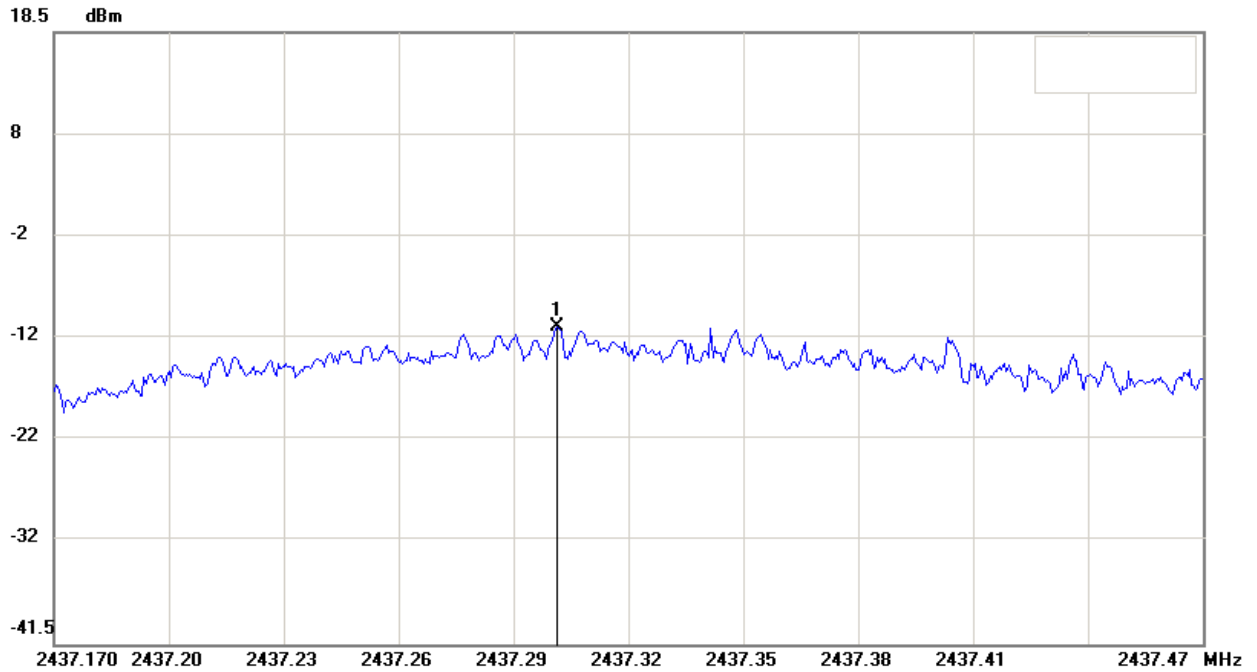
Table 22: Test result of Power Spectral Density, 802.11g

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) |
|--------------|-------------------------|------------------------------|---------|-------|-------------|
| | | Chain 0 | Chain 1 | Total | |
| Low Channel | 2412 | -15.54 | -15.40 | -8.99 | 8 |
| Mid Channel | 2437 | -10.40 | -9.92 | -3.27 | 8 |
| High Channel | 2462 | -15.20 | -15.12 | -9.64 | 8 |



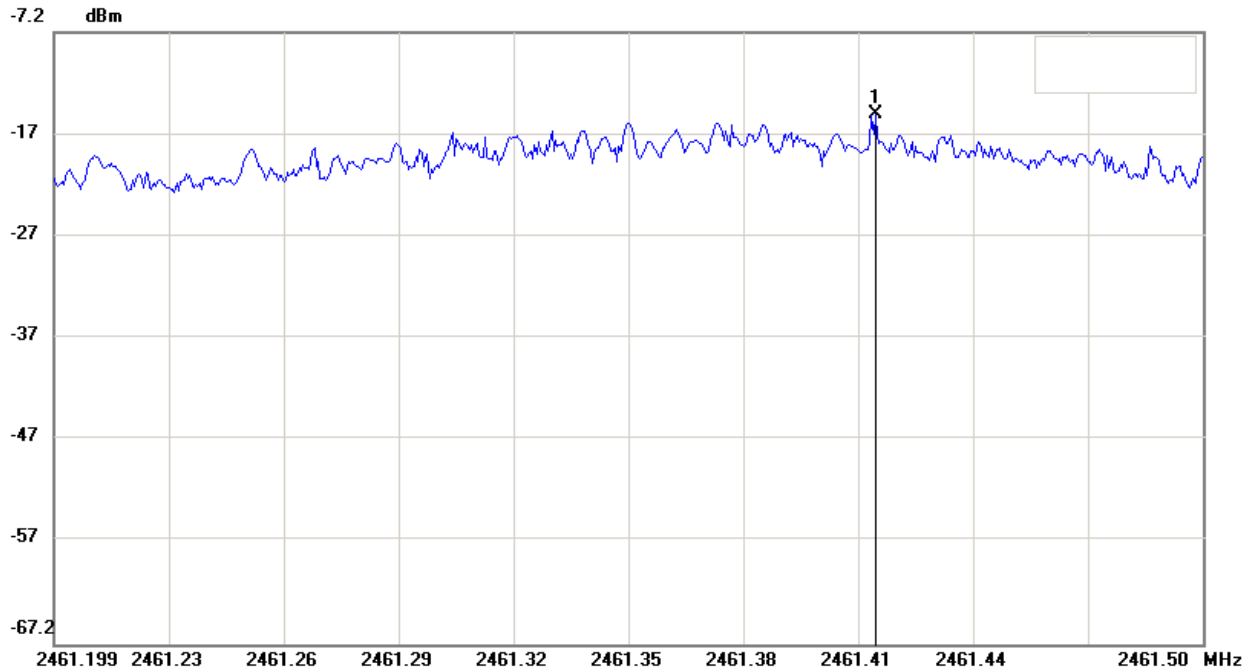
| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 01-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2411.41380 | -15.54 |



| | | |
|-------------------|---|--|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 06-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2437.30190 | -10.40 |



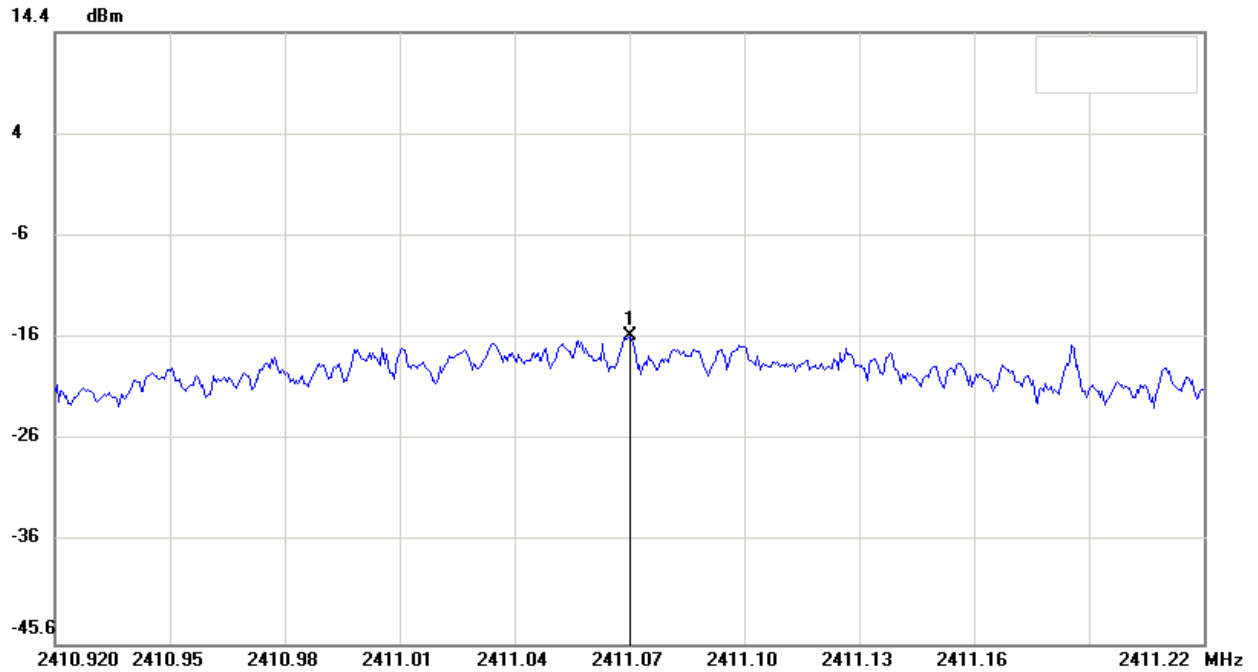
| | | |
|-------------------|---|--|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 11-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2461.41380 | -15.20 |

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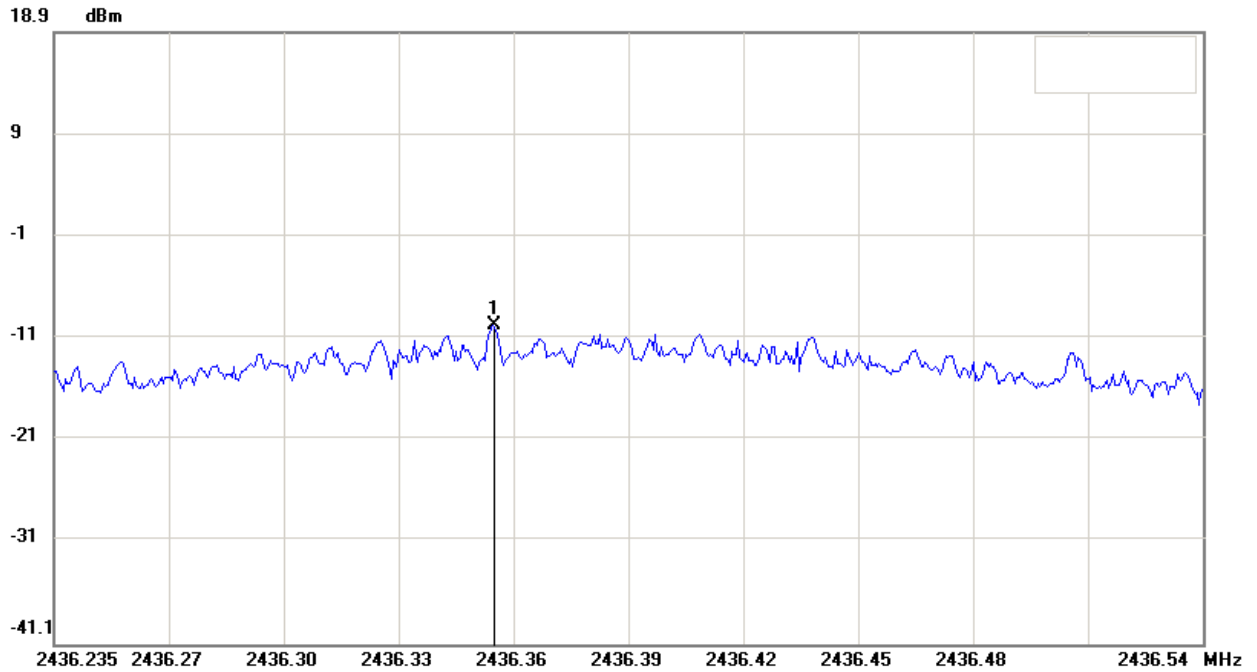
| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 01-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2411.06970 | -15.40 |

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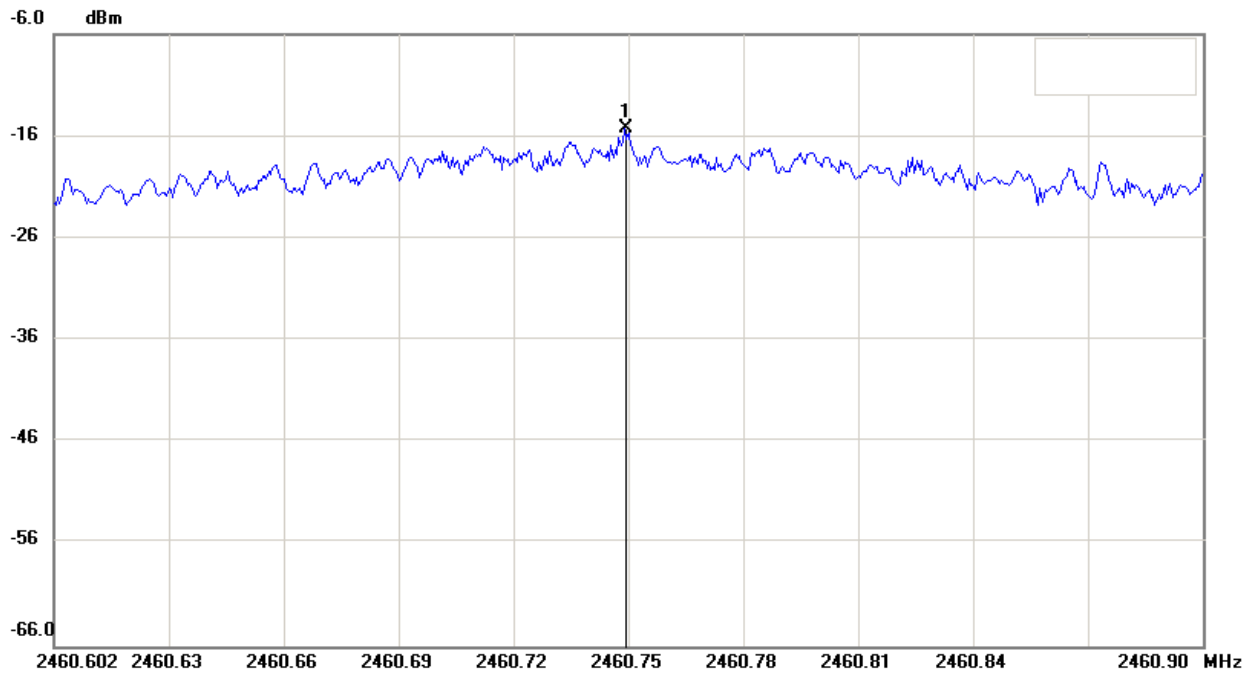
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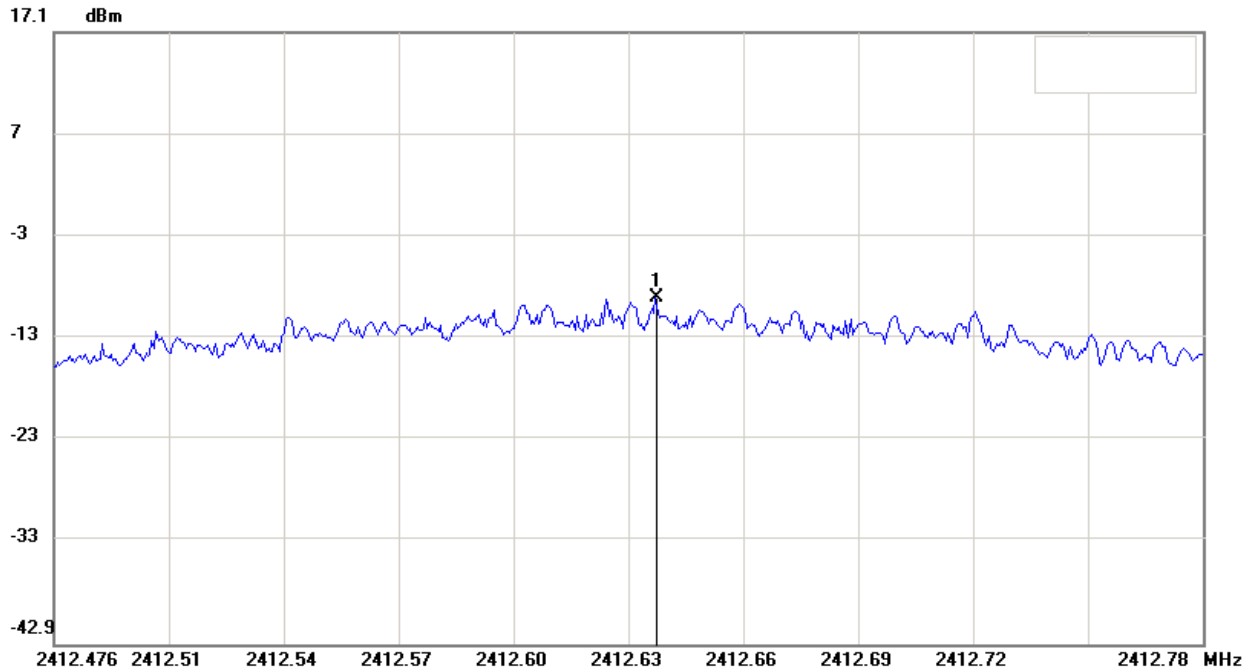
| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 06-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2436.34970 | -9.92 |



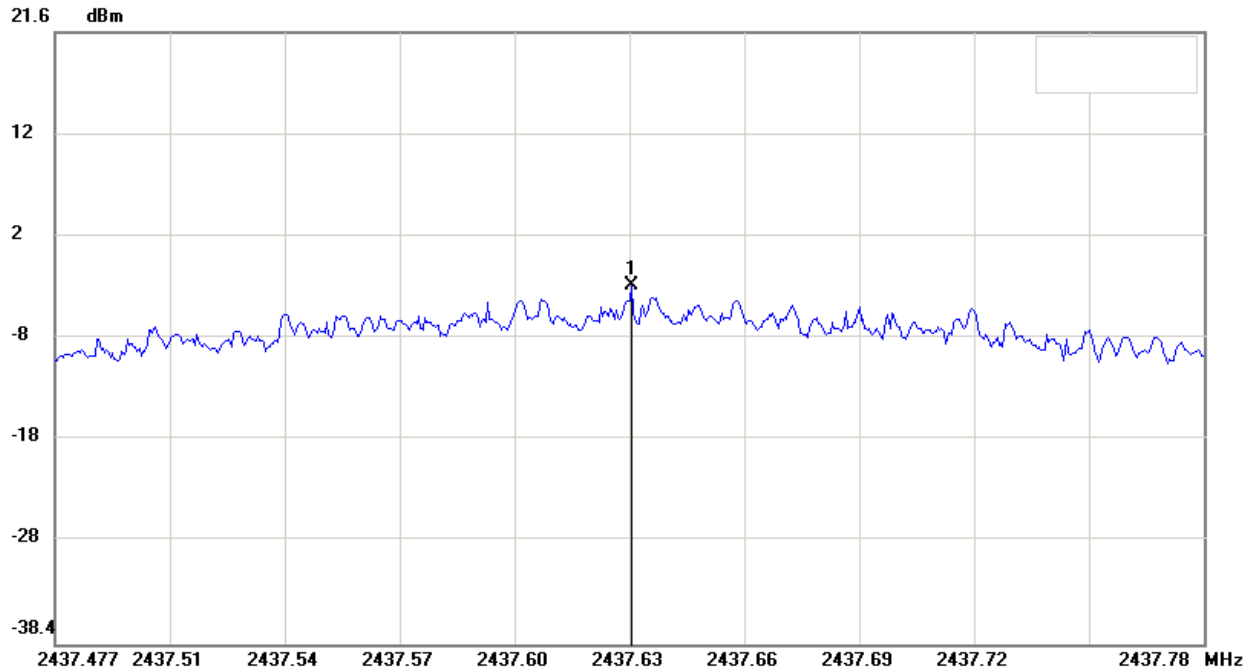
| | | |
|-------------------|---|--|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11g Channel 11-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2460.75100 | -15.12 |



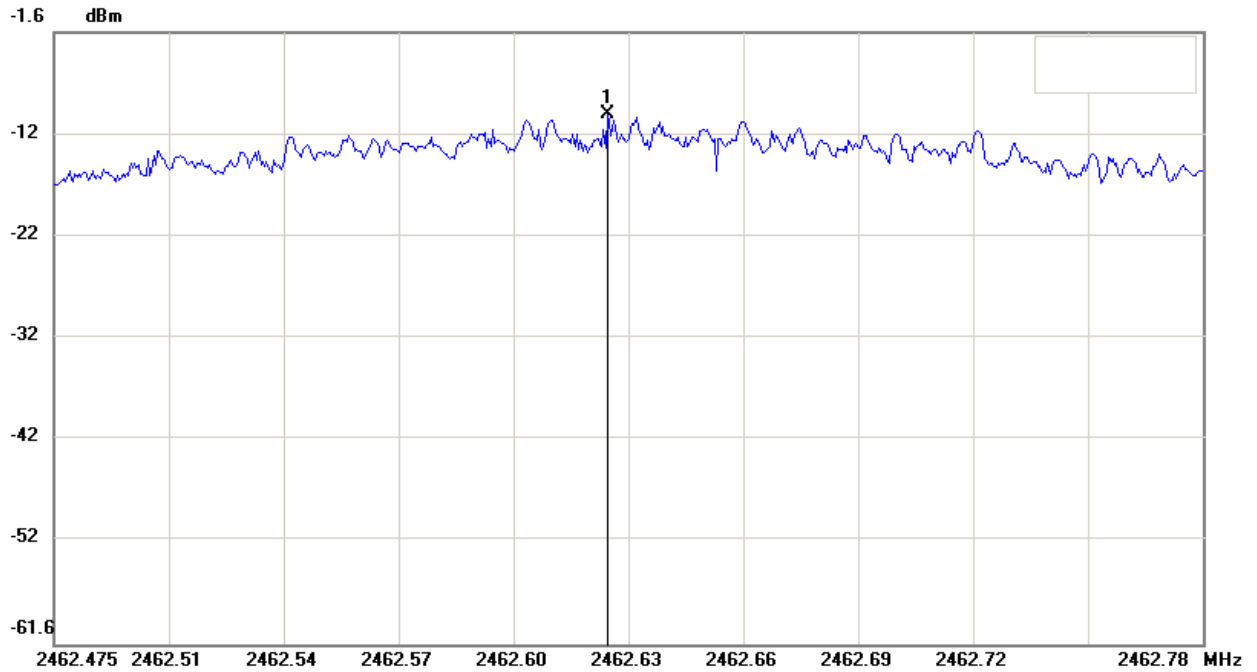
| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2412.63330 | -8.99 |



| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 06-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2437.62780 | -3.27 |

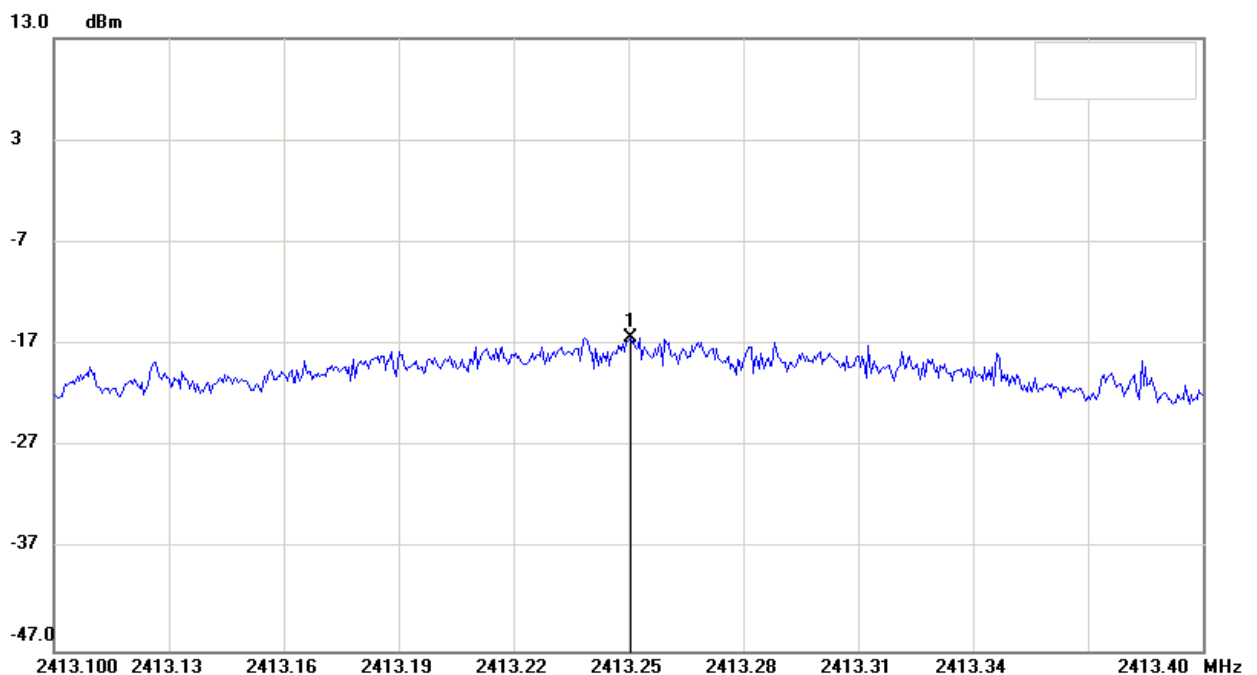


| | | |
|-------------------|---|--|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 100000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2462.61970 | -9.64 |

Table 23: Test result of Power Spectral Density, 802.11gn, HT20

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) |
|--------------|-------------------------|------------------------------|---------|--------|-------------|
| | | Chain 0 | Chain 1 | Total | |
| Low Channel | 2412 | -16.30 | -15.64 | -9.79 | 8 |
| Mid Channel | 2437 | -11.72 | -9.66 | -5.64 | 8 |
| High Channel | 2462 | -16.14 | -13.90 | -10.42 | 8 |



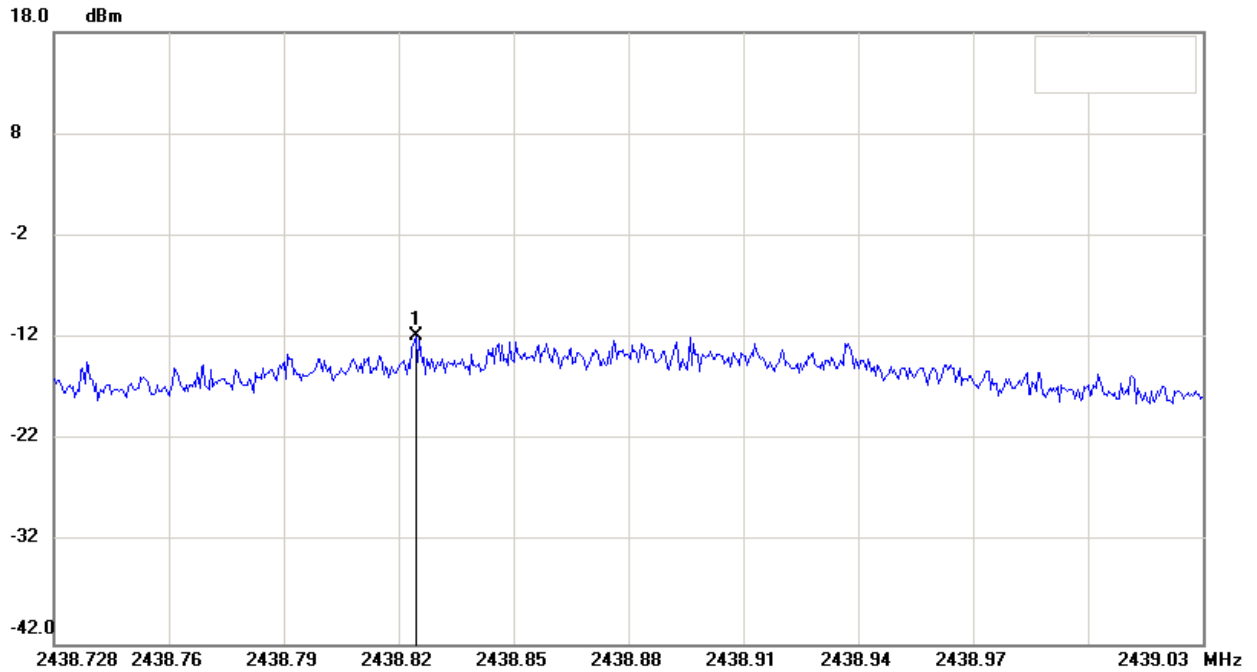
Condition: Chain 0 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 10000ms Att.: 20dB**
Model: RF-HTN102 **RBW: 3 KHz VBW: 10 KHz**
Test Mode: Transmitting
Note: FCC-802.11gn_HT20 Channel 01-Power Density (PK)

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2413.25080 | -16.30 |

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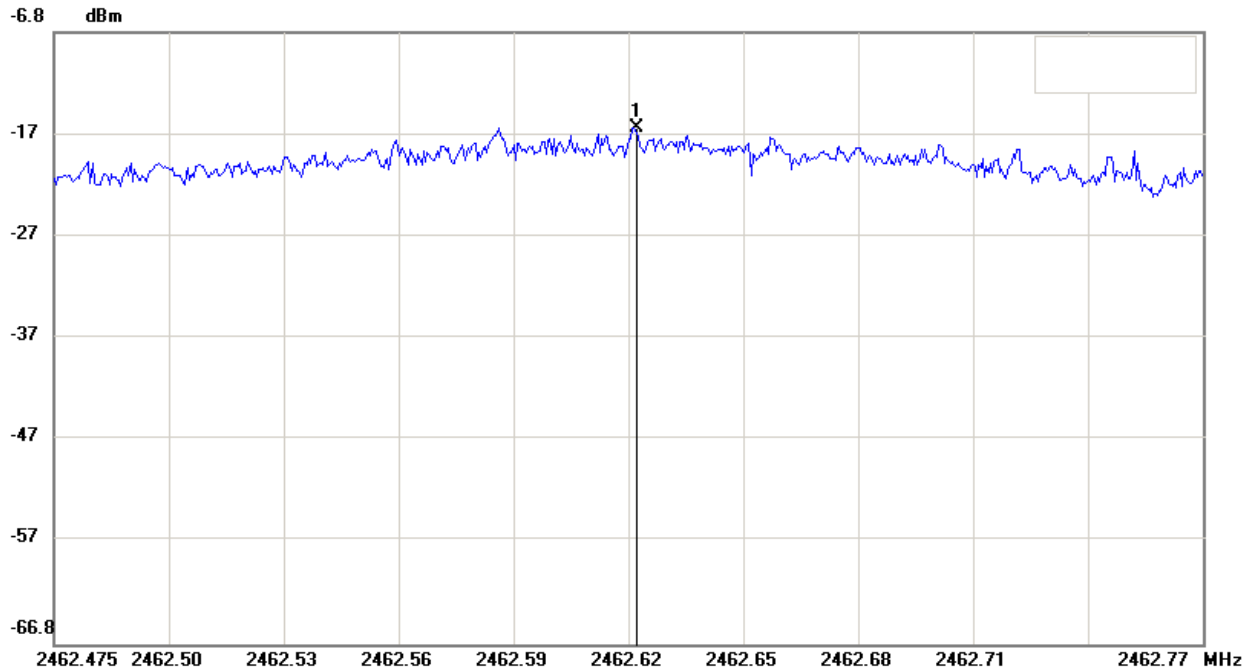
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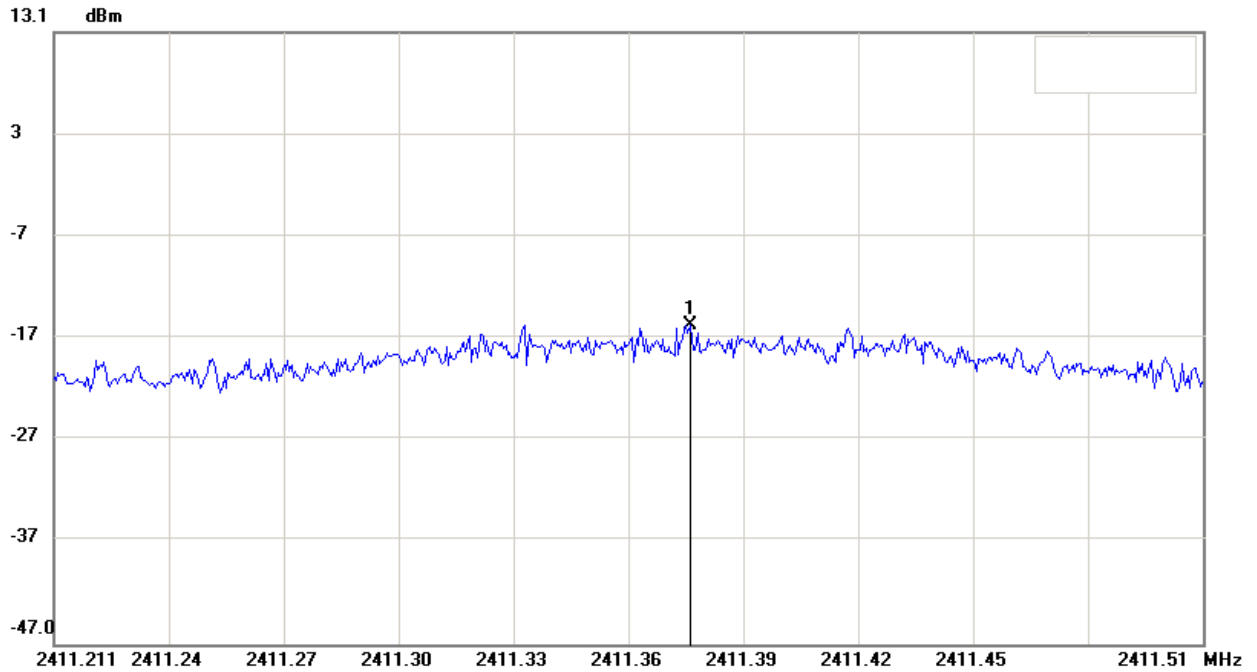
Condition: Chain 0 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 10000ms Att.: 20dB**
Model: RF-HTN102 **RBW: 3 KHz VBW: 10 KHz**
Test Mode: Transmitting
Note: FCC-802.11gn_HT20 Channel 06-Power Density (PK)

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2438.82220 | -11.72 |



| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2462.62630 | -16.14 |



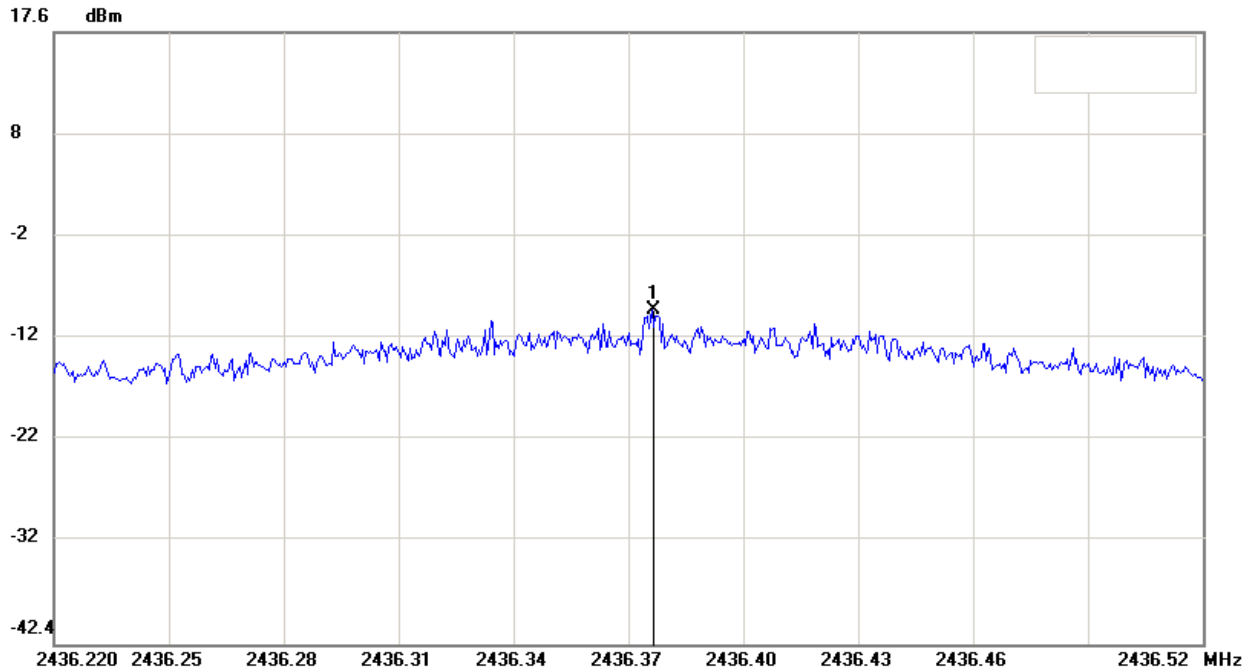
| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2411.37710 | -15.64 |

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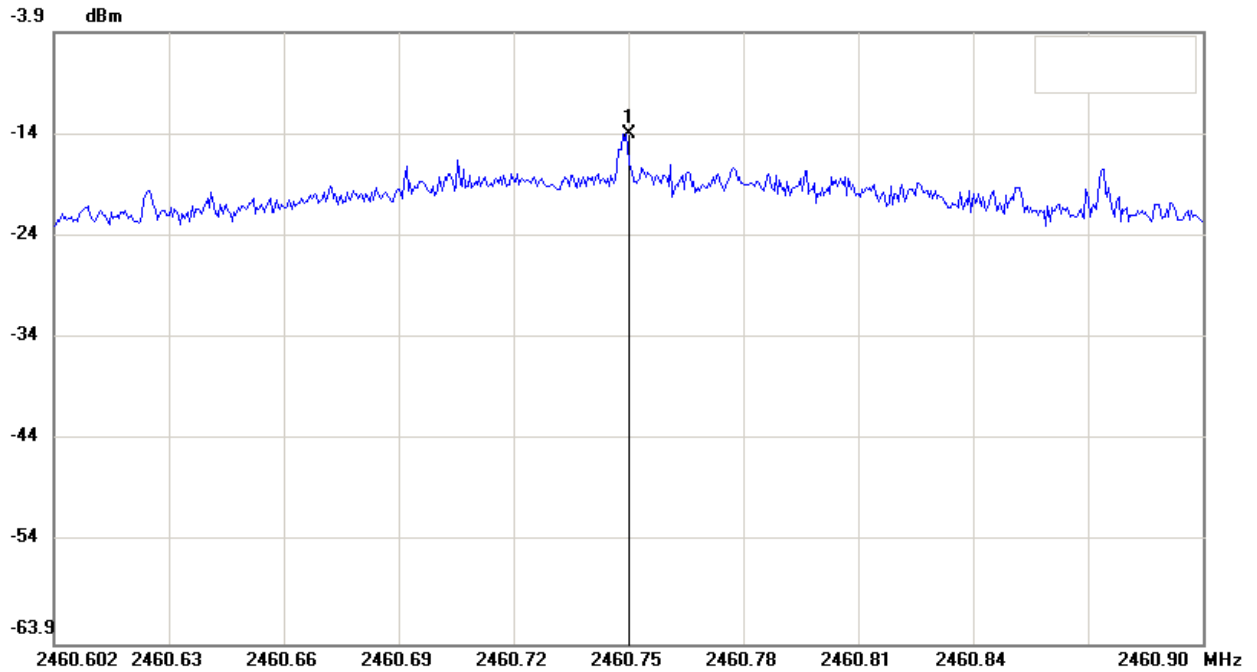
| | | |
|-------------------|---|--|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 06-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2436.37640 | -9.66 |

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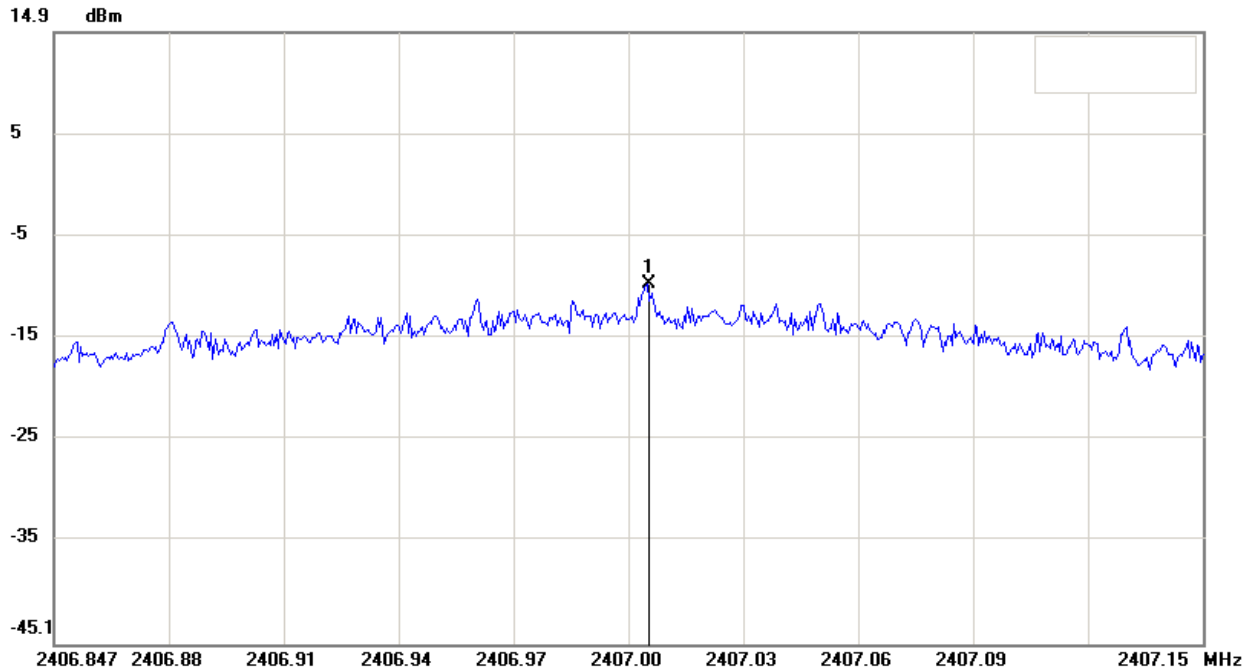
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Condition: Chain 1 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 100000ms Att.: 10dB**
Model: RF-HTN102 **RBW: 3 KHz VBW: 10 KHz**
Test Mode: Transmitting
Note: FCC-802.11gn_HT20 Channel 11-Power Density (PK)

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2460.75130 | -13.90 |



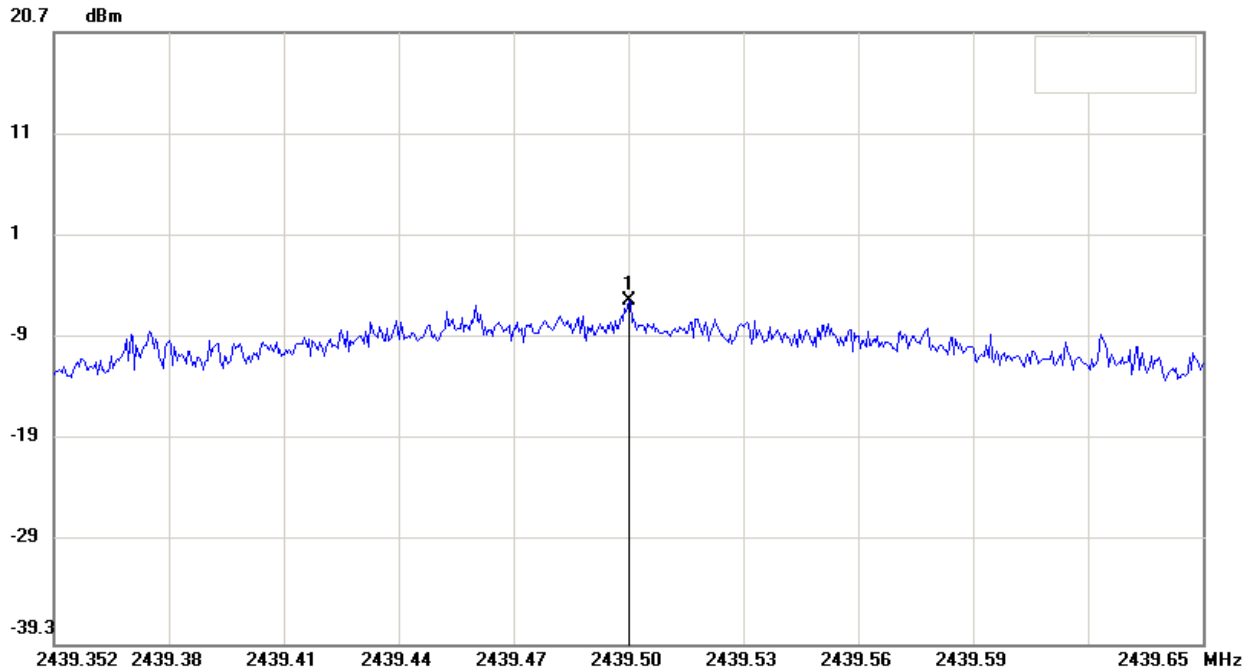
| | | |
|-------------------|---|--|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 01-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2407.00170 | -9.79 |

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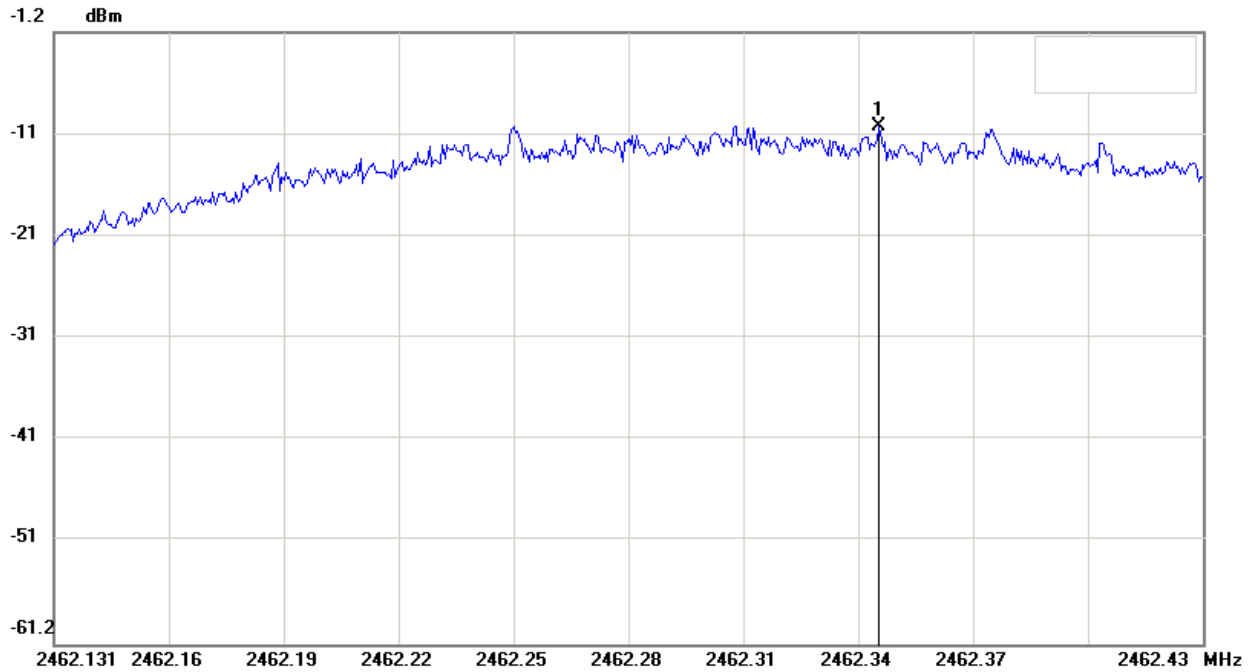
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Condition: Chain 0+Chain 1 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 10000ms Att.: 20dB**
Model: RF-HTN102 **RBW: 3 KHz VBW: 10 KHz**
Test Mode: Transmitting
Note: FCC-802.11gn_HT20 Channel 06-Power Density (PK)

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2439.50150 | -5.64 |

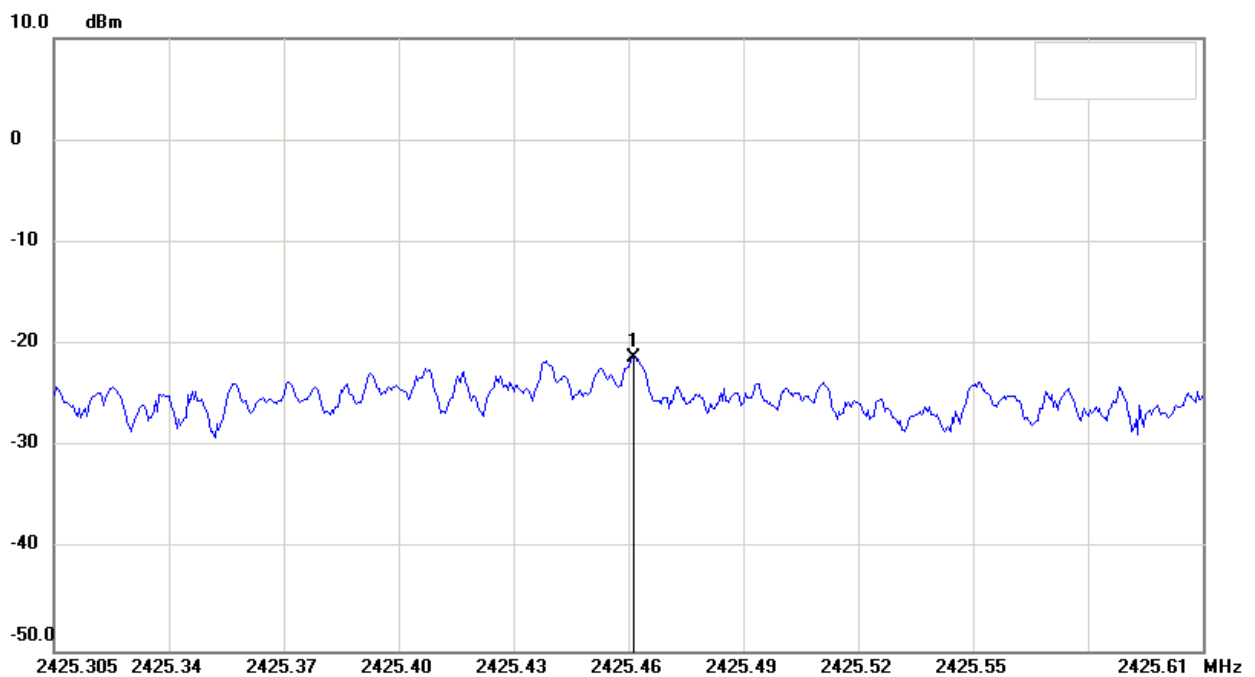


| | | |
|-------------------|---|--|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT20 Channel 11-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2462.34680 | -10.42 |

Table 24: Test result of Power Spectral Density, 802.11gn, HT40

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) |
|--------------|-------------------------|------------------------------|---------|--------|-------------|
| | | Chain 0 | Chain 1 | Total | |
| Low Channel | 2422 | -21.27 | -18.32 | -15.40 | 8 |
| Mid Channel | 2437 | -12.49 | -12.37 | -6.56 | 8 |
| High Channel | 2452 | -21.52 | -18.46 | -12.94 | 8 |



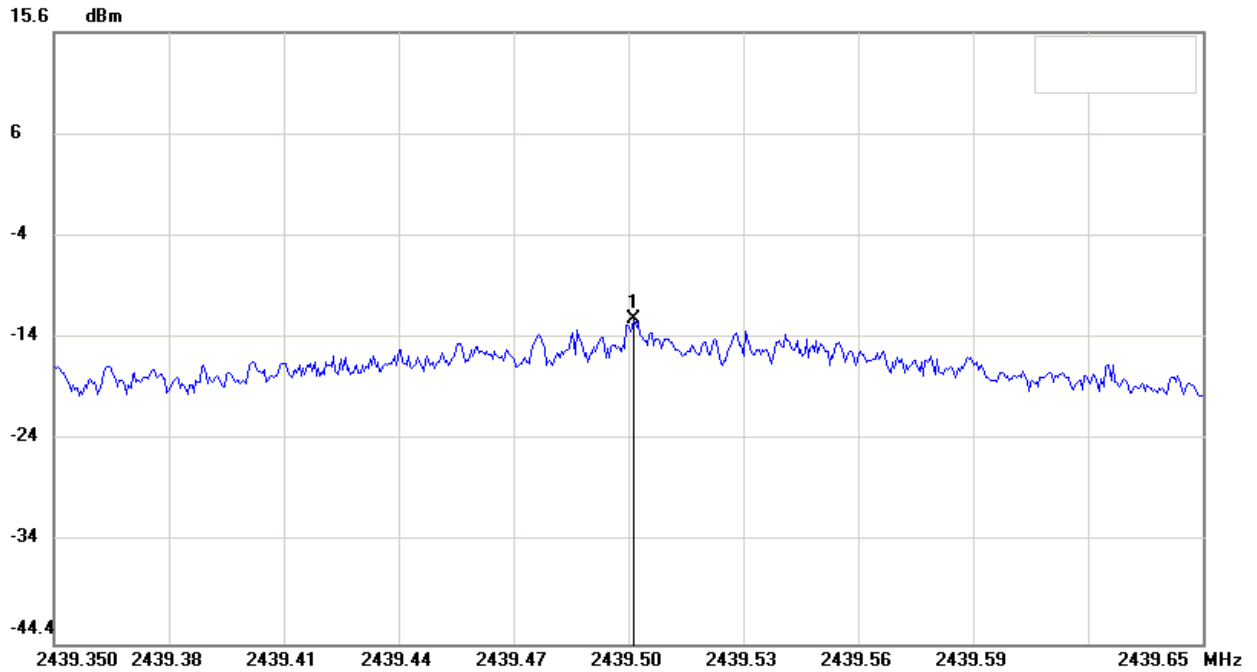
| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2425.45610 | -21.27 |

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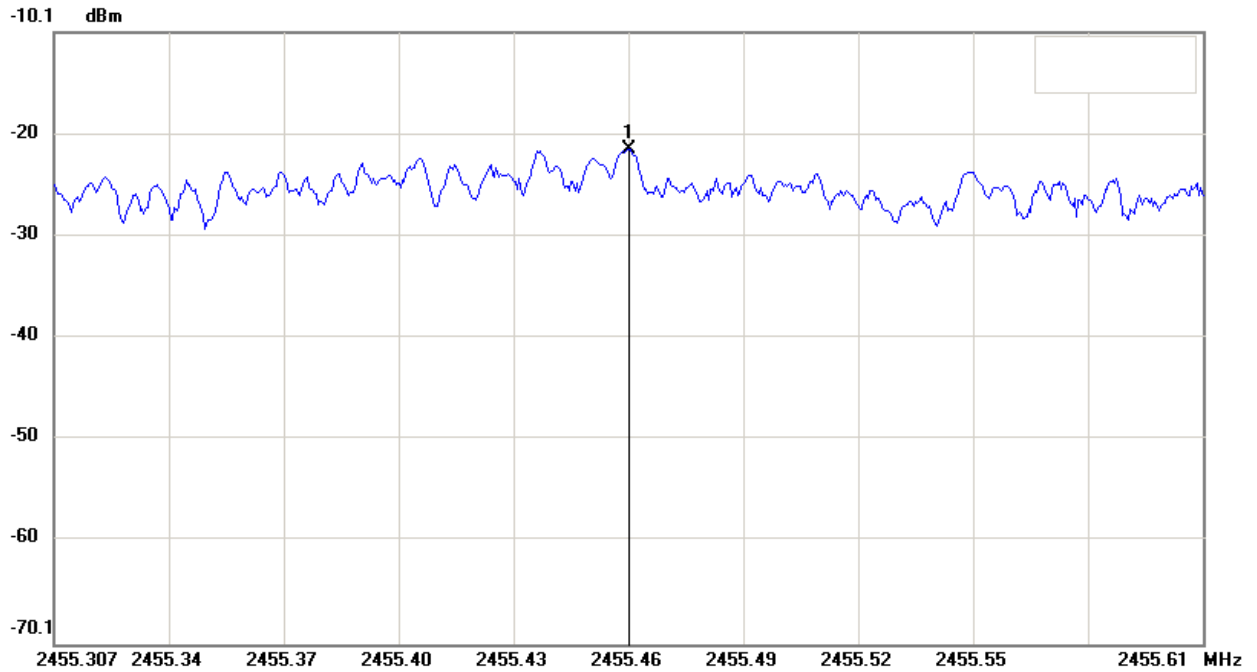
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| | | |
|-------------------|---|--|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 06-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2439.50150 | -12.49 |



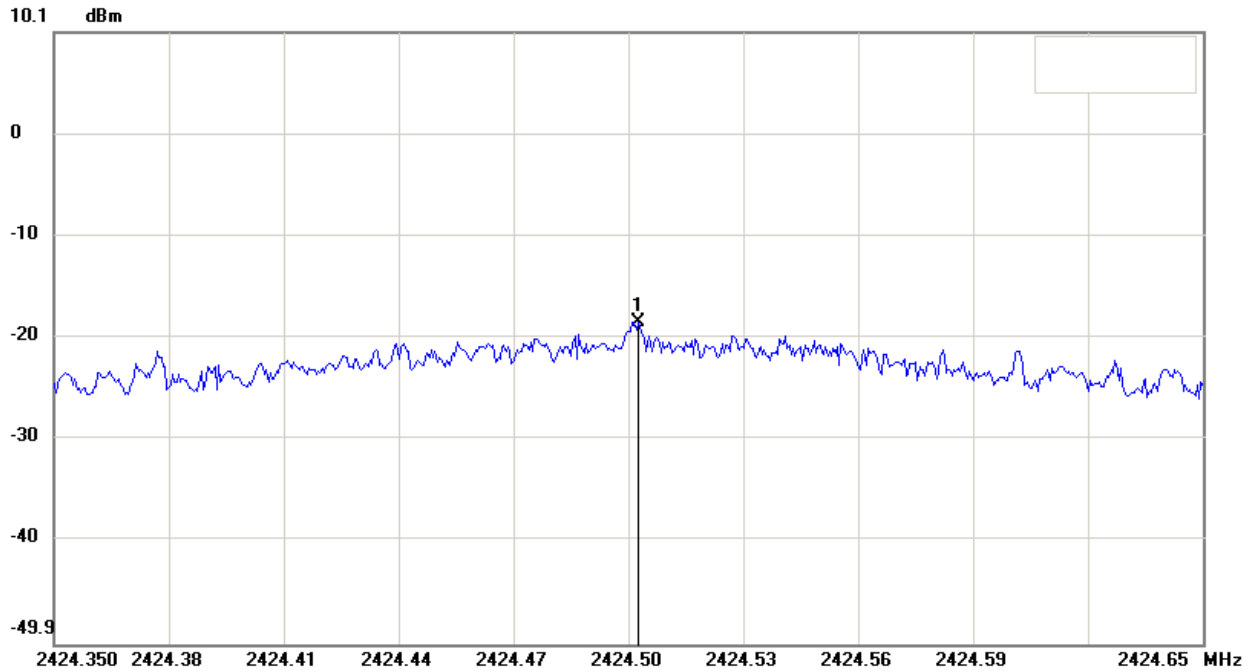
| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2455.45710 | -21.52 |

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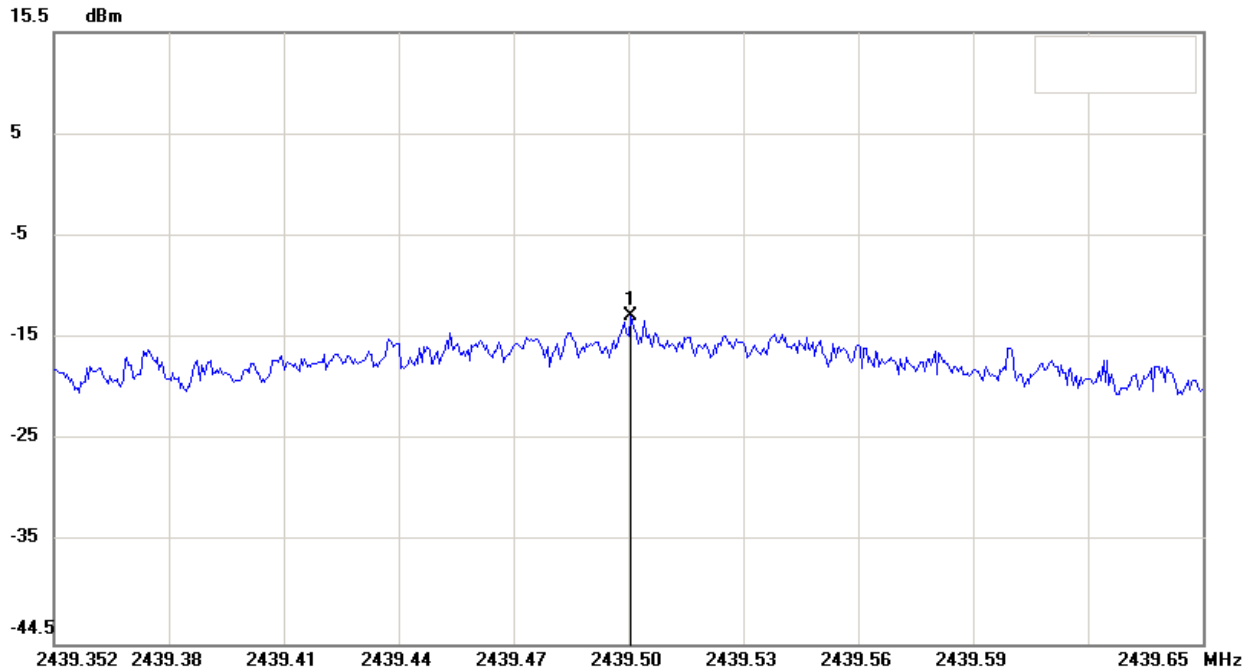
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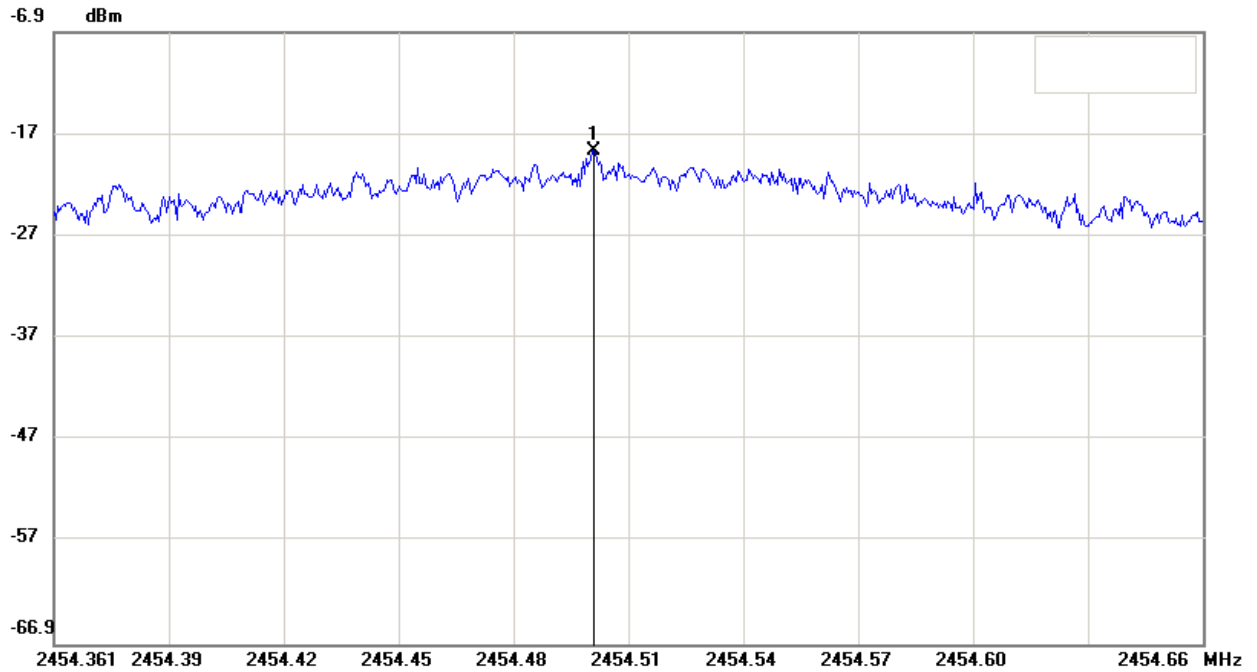
| | | |
|-------------------|---|--|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2424.50250 | -18.32 |



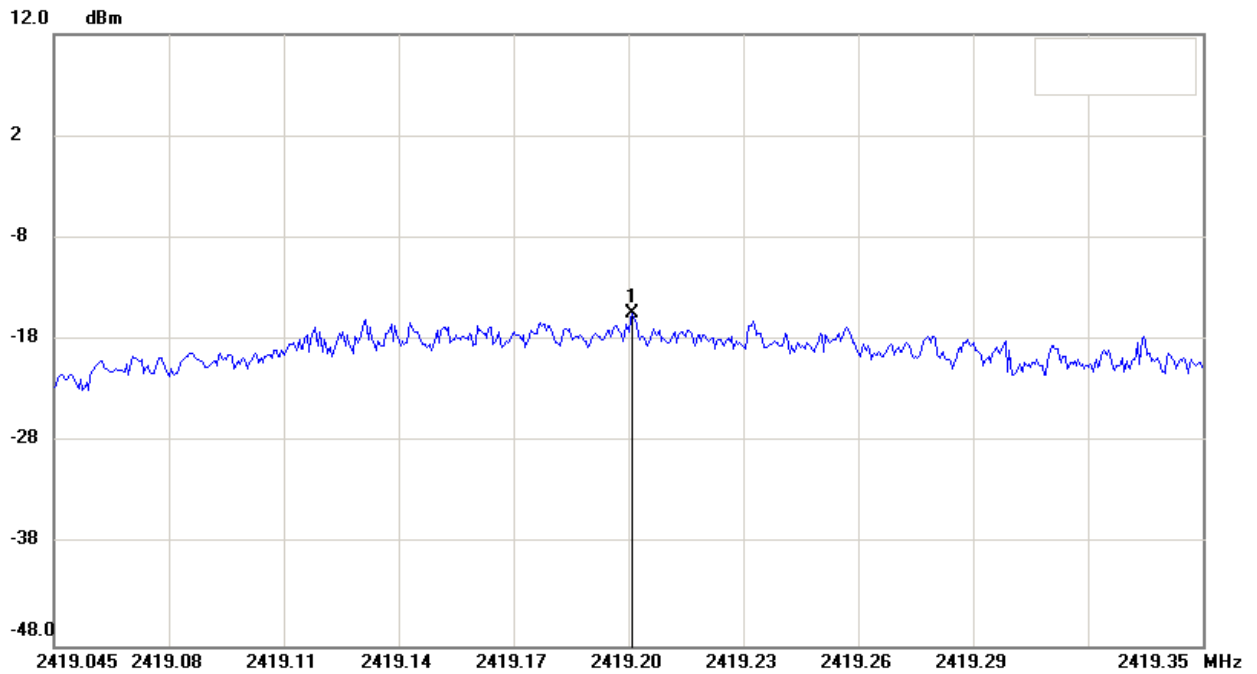
| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 06-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2439.50230 | -12.37 |



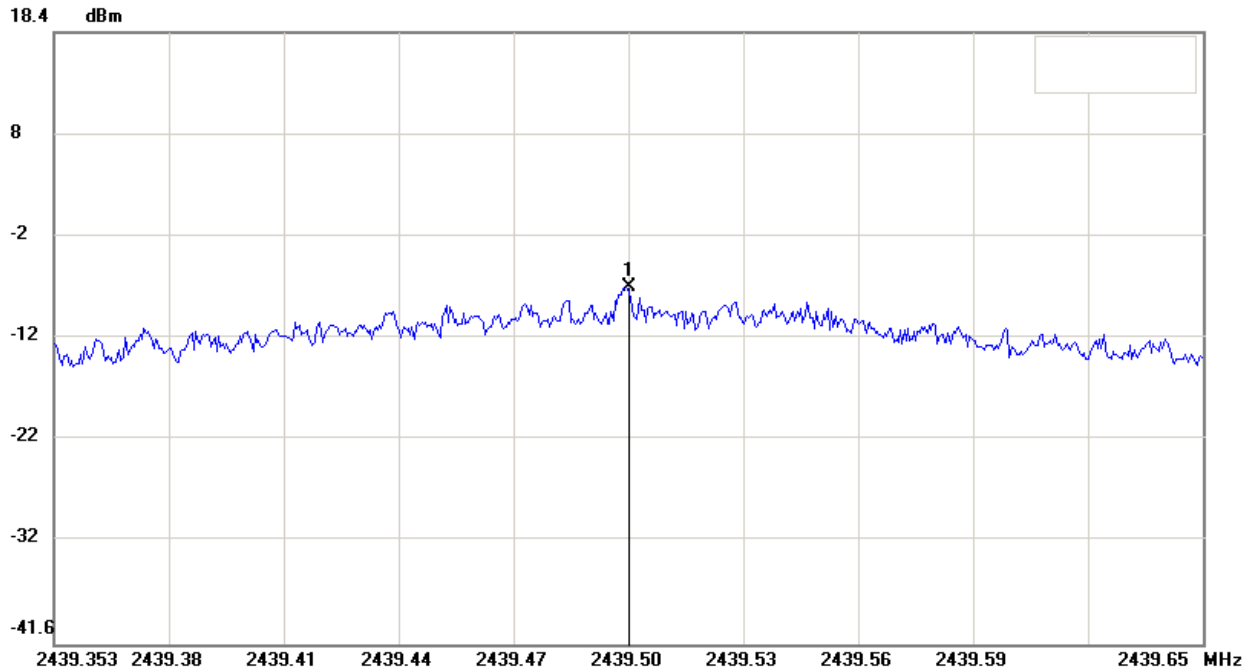
| | | |
|-------------------|---|--|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2454.50140 | -18.46 |



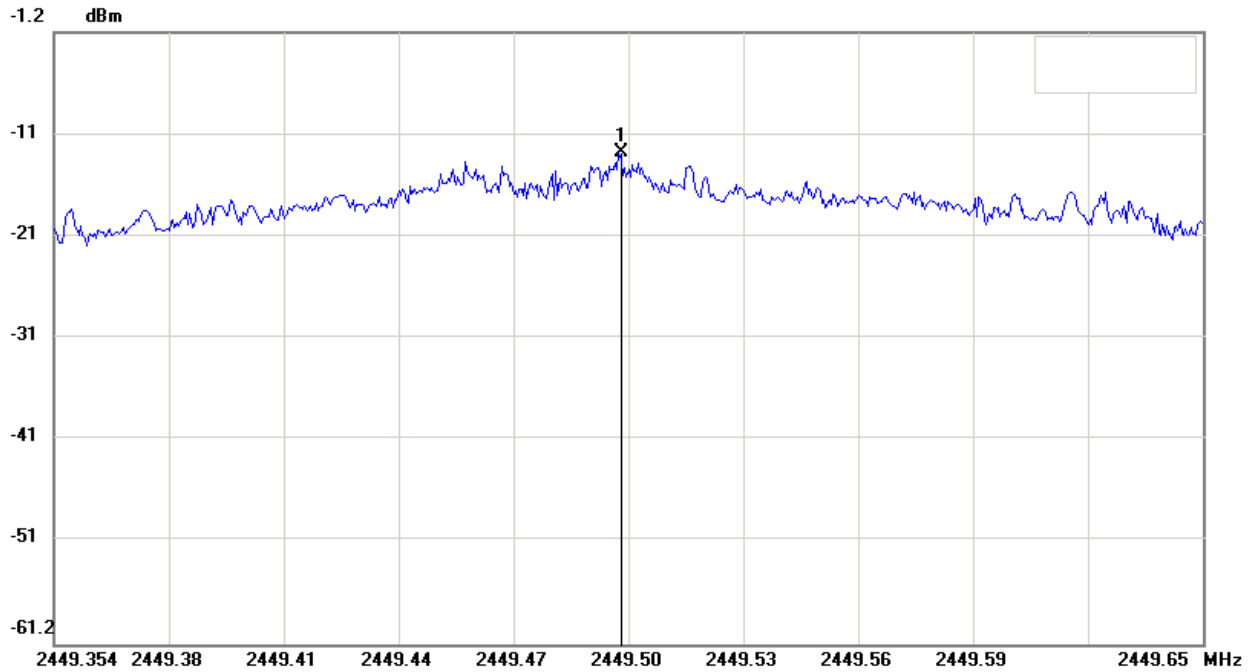
| | | |
|-------------------|---|--|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 03-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2419.19640 | -15.40 |



| | | |
|-------------------|---|--|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 06-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2439.50230 | -6.56 |

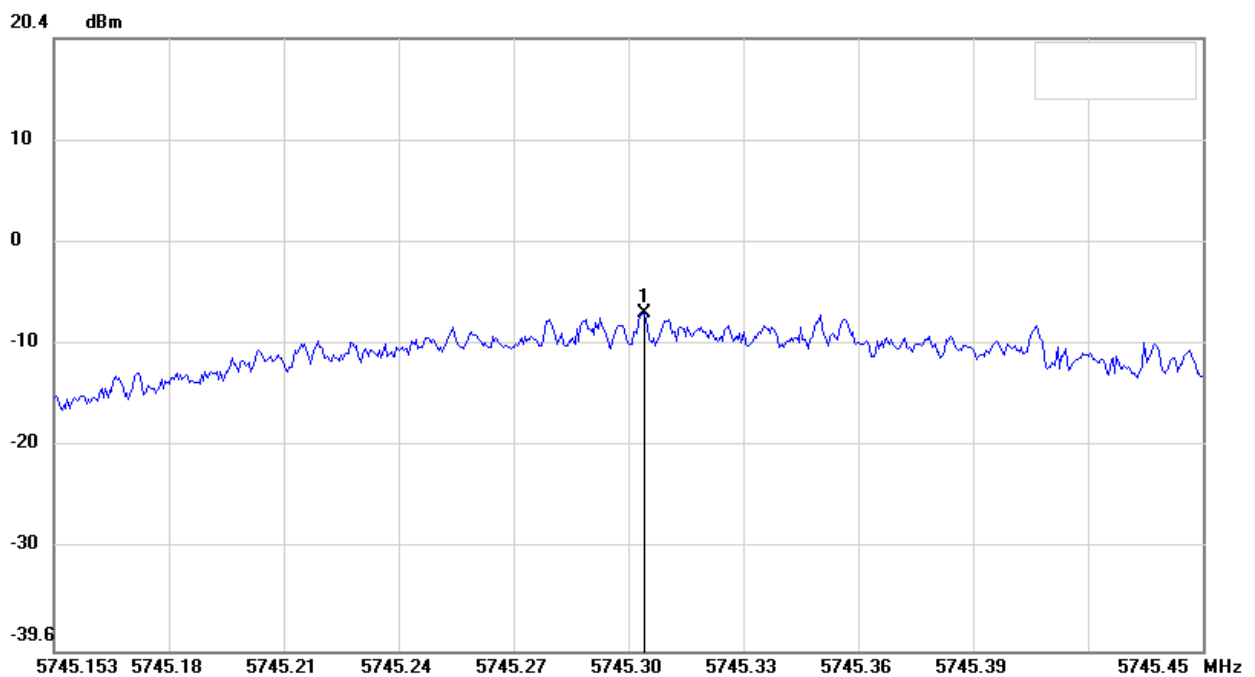


| | | |
|-------------------|---|--|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11gn_HT40 Channel 09-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 2449.50110 | -12.94 |

Table 25: Test result of Power Spectral Density, 802.11a

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) |
|--------------|-------------------------|------------------------------|---------|-------|-------------|
| | | Chain 0 | Chain 1 | Total | |
| Low Channel | 5745 | -6.60 | -7.63 | 4.40 | 8 |
| Mid Channel | 5785 | -5.84 | -7.45 | 3.85 | 8 |
| High Channel | 5825 | -4.84 | 2.32 | 4.14 | 8 |



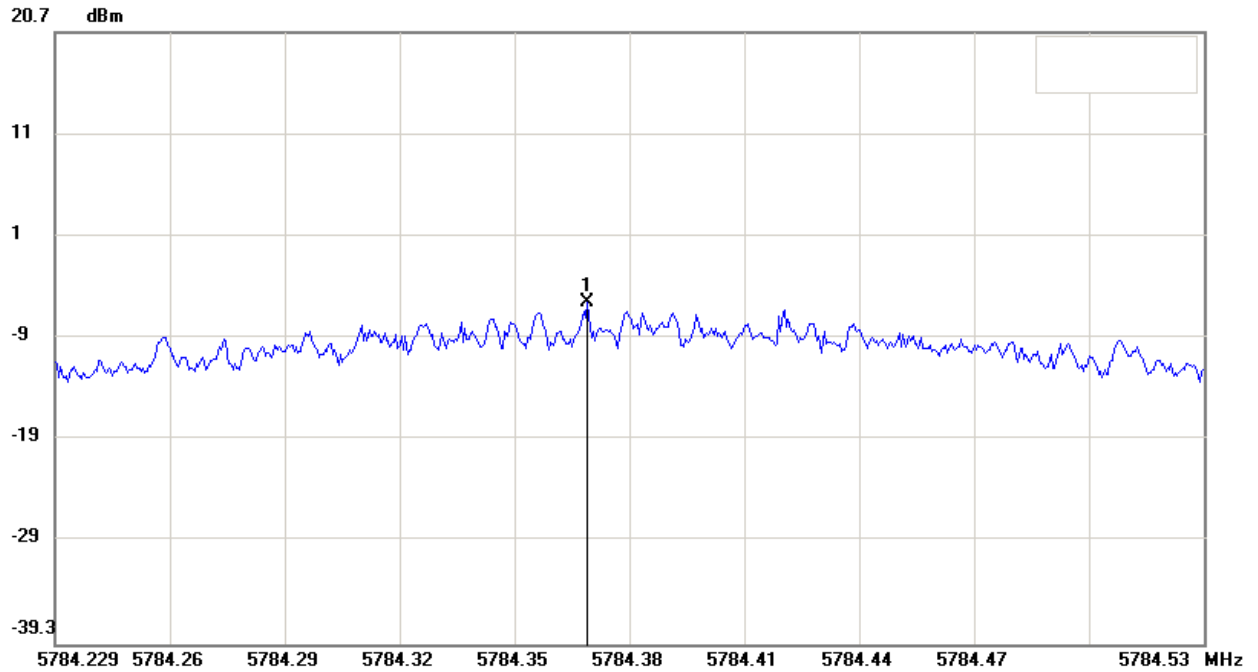
| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 149-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5745.3073 | -6.60 |

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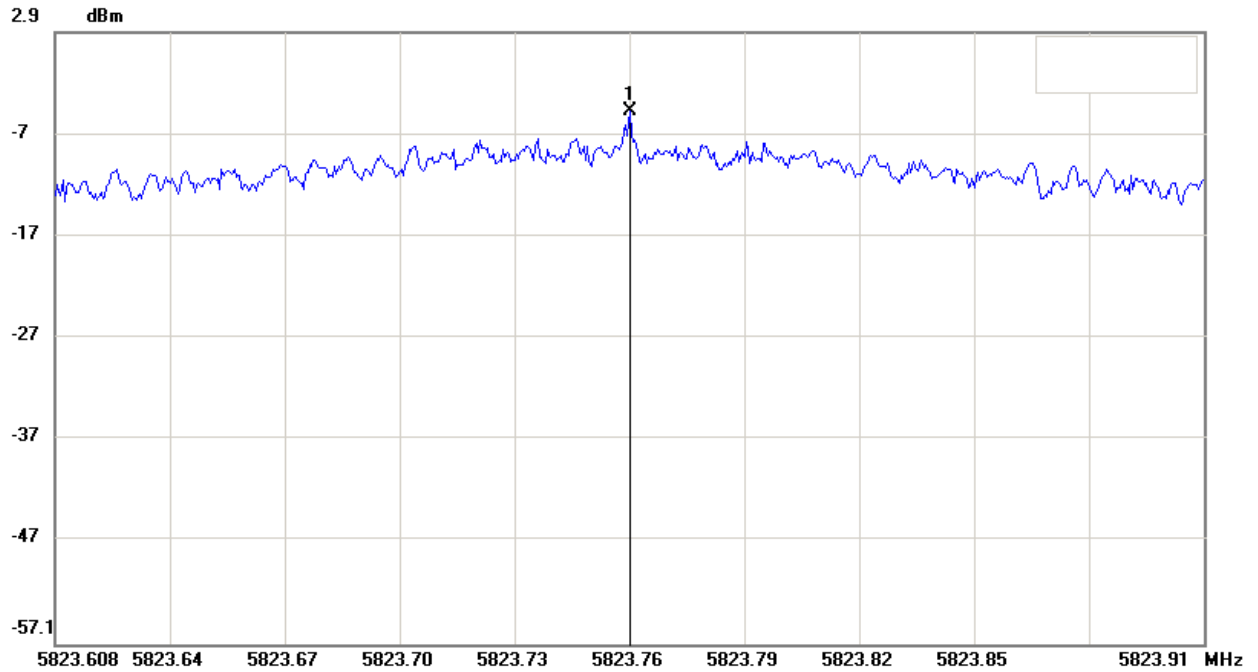
| | | |
|-------------------|--|--|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 157-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5784.3677 | -5.85 |

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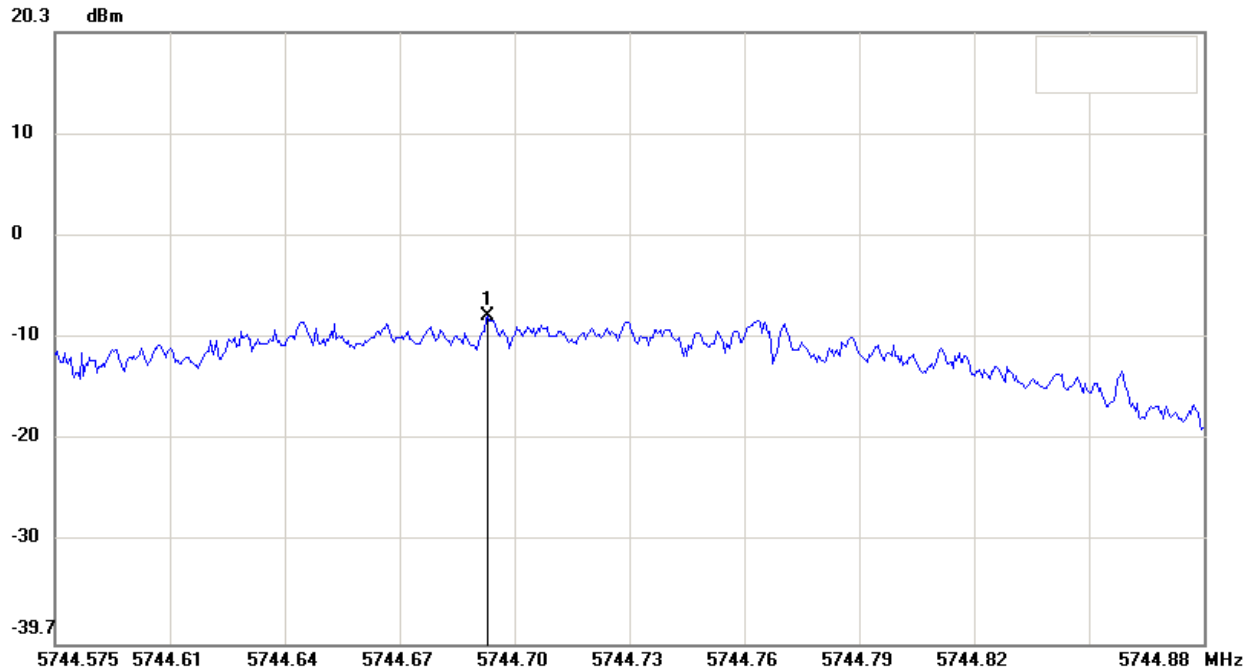
| | | |
|-------------------|--|--|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 165-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5823.7576 | -4.84 |

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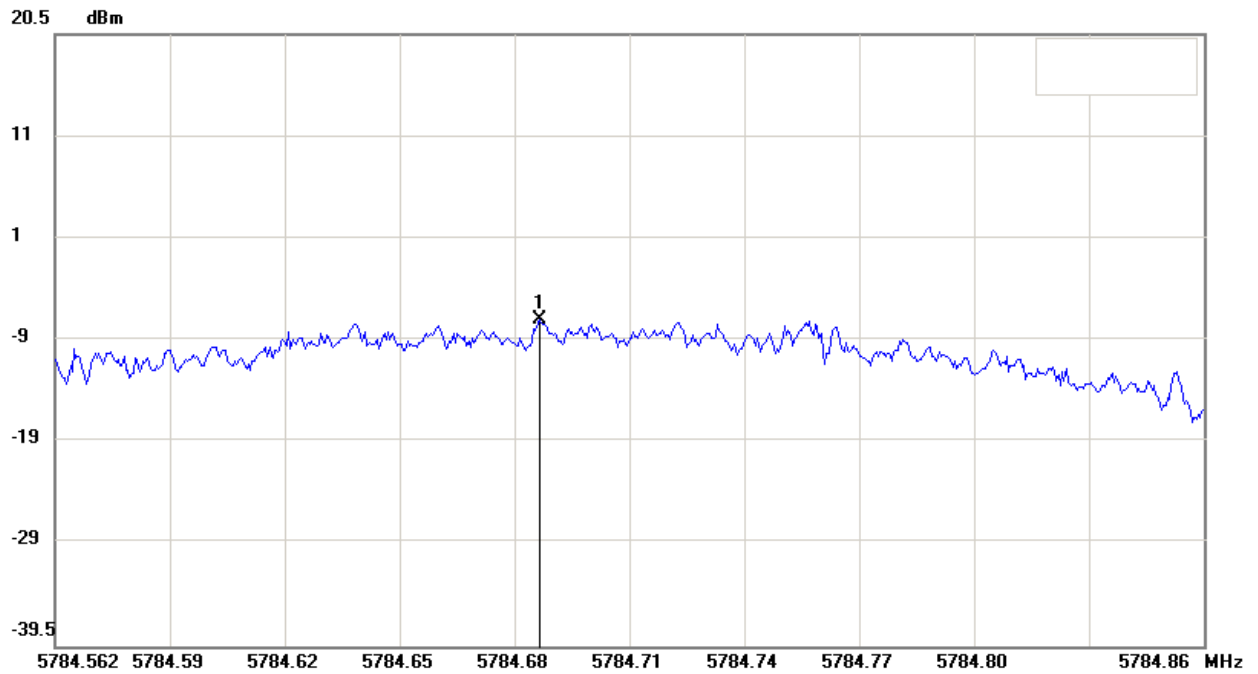
| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 149-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5744.6885 | -7.63 |

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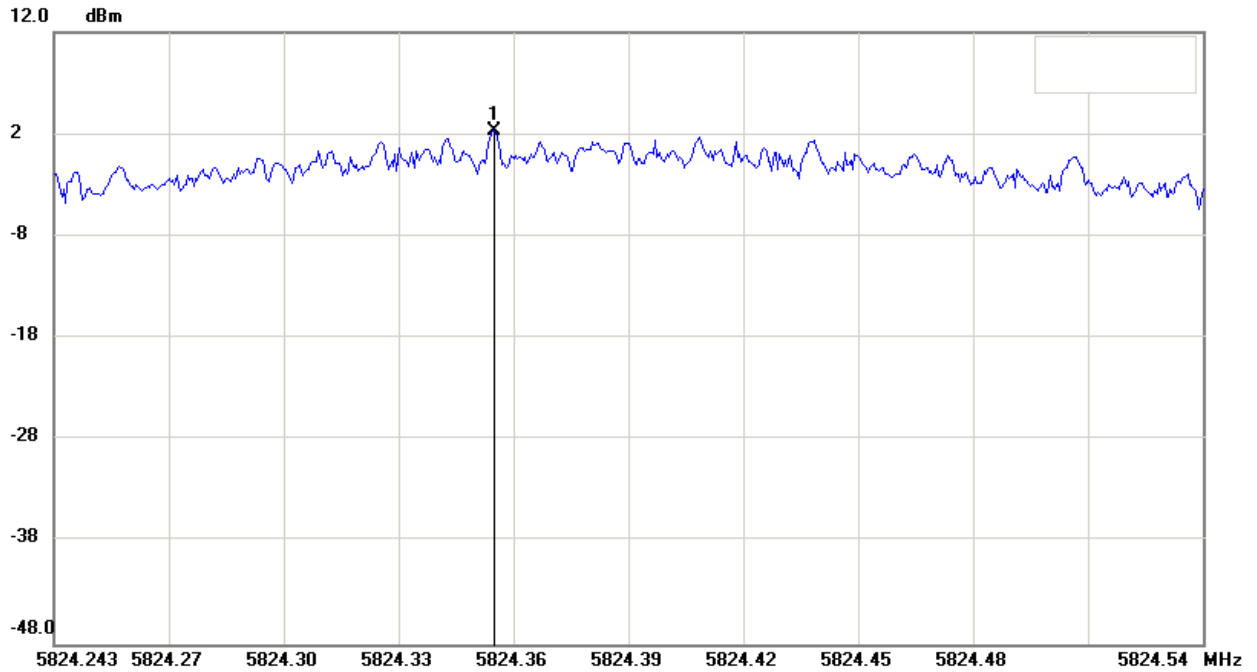
Condition: Chain 1 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 10000ms Att.: 30dB**
Model: RF-HTN102 **RBW: 3 KHz VBW: 10 KHz**
Test Mode: Transmitting
Note: FCC-802.11a Channel 157-Power Density (PK)

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5784.6888 | -7.45 |

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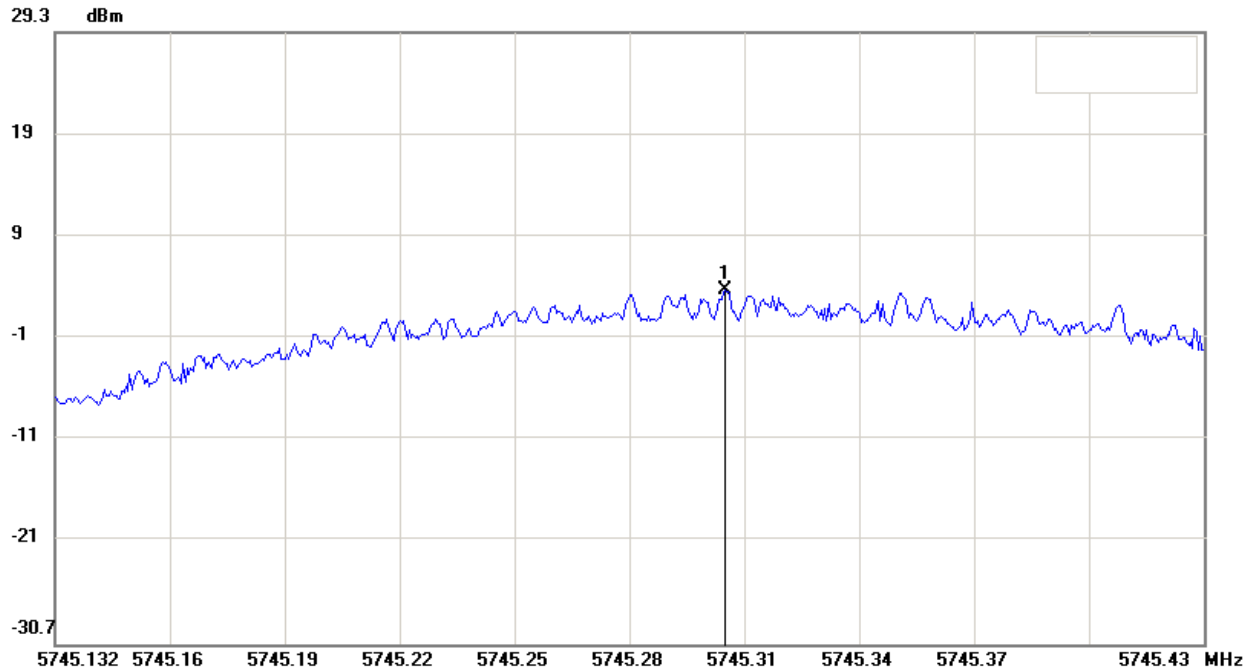
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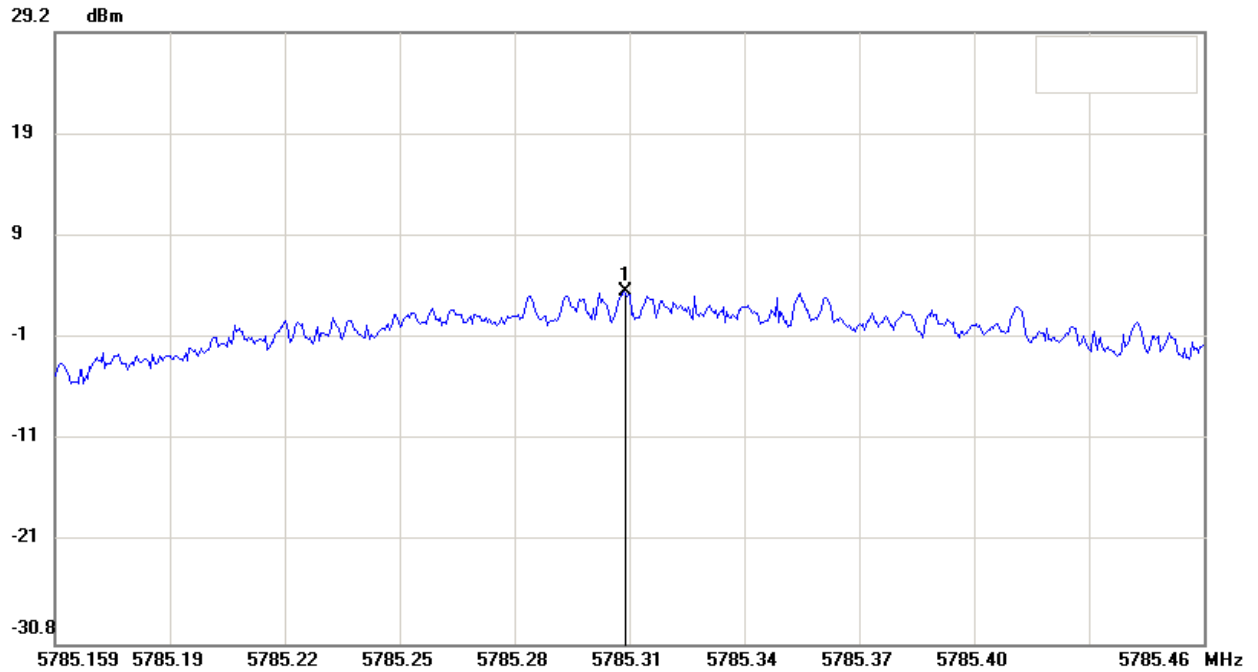
| | | |
|-------------------|--|--|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 165-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5824.35720 | 2.32 |



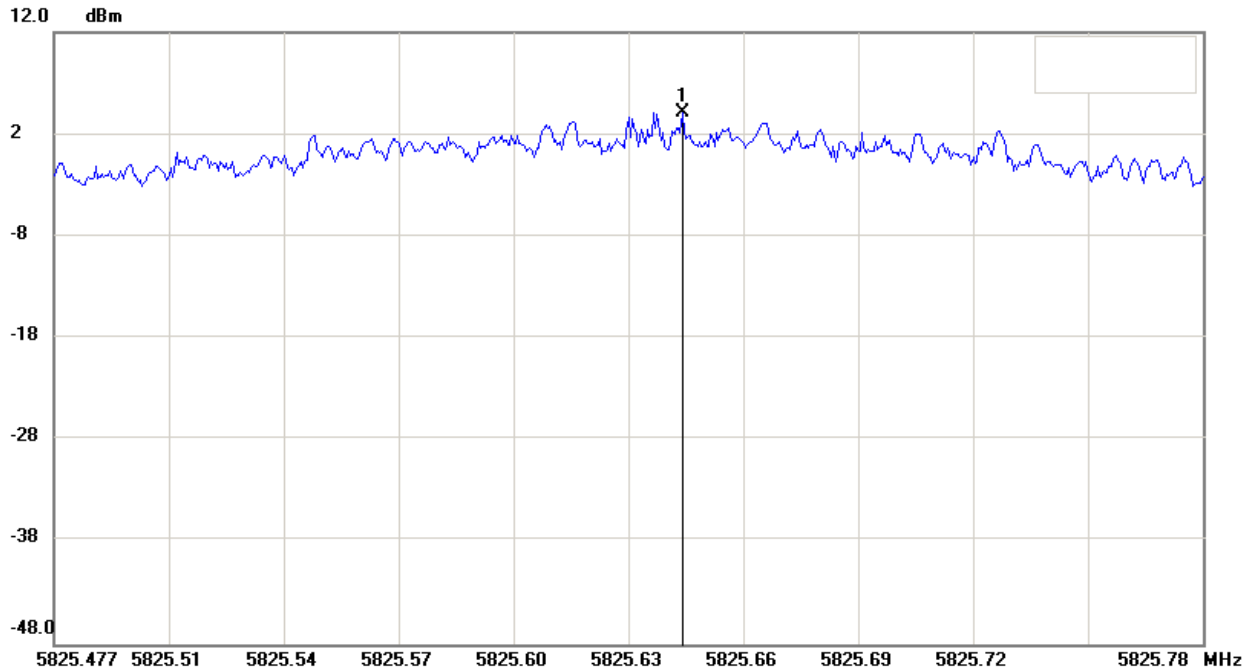
| | | |
|-------------------|--|--|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 149-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5745.30710 | 4.04 |



| | | |
|-------------------|--|--|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 157-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5785.30770 | 3.85 |

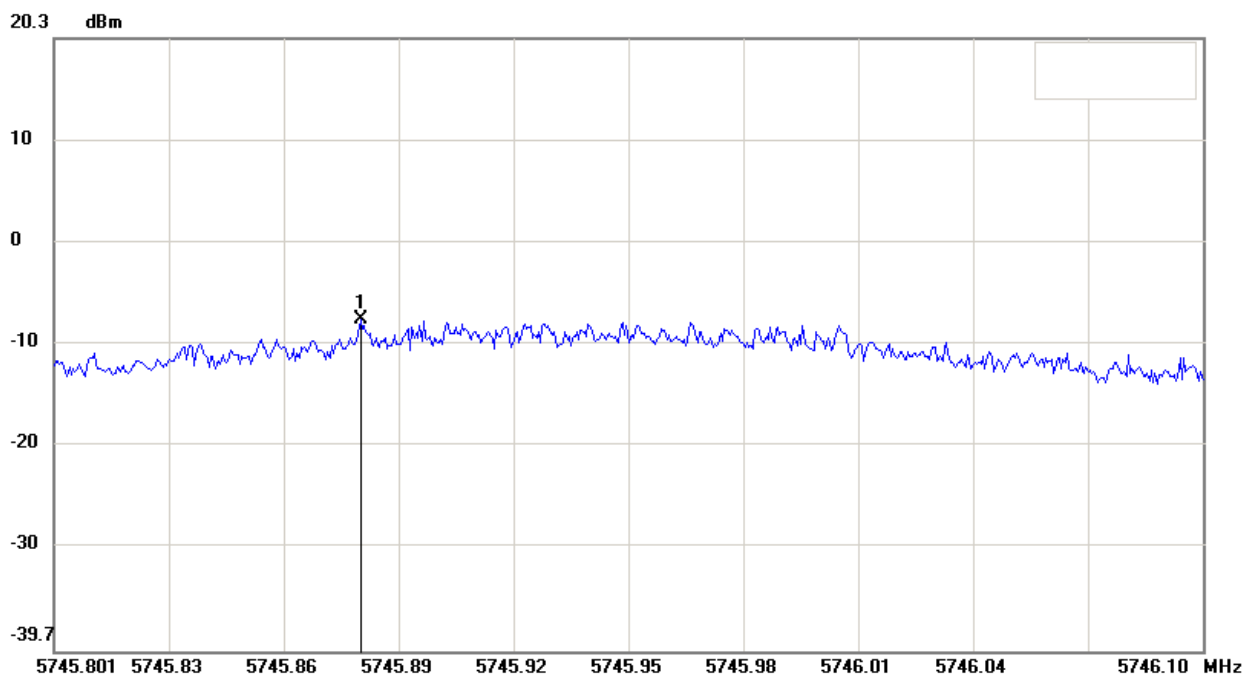


| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11a Channel 165-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5825.64100 | 4.14 |

Table 26: Test result of Power Spectral Density, 802.11an, HT20

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) |
|--------------|-------------------------|------------------------------|---------|-------|-------------|
| | | Chain 0 | Chain 1 | Total | |
| Low Channel | 5745 | -7.16 | -7.49 | -4.95 | 8 |
| Mid Channel | 5785 | -6.54 | -6.46 | -5.52 | 8 |
| High Channel | 5825 | -6.89 | -7.98 | -2.40 | 8 |



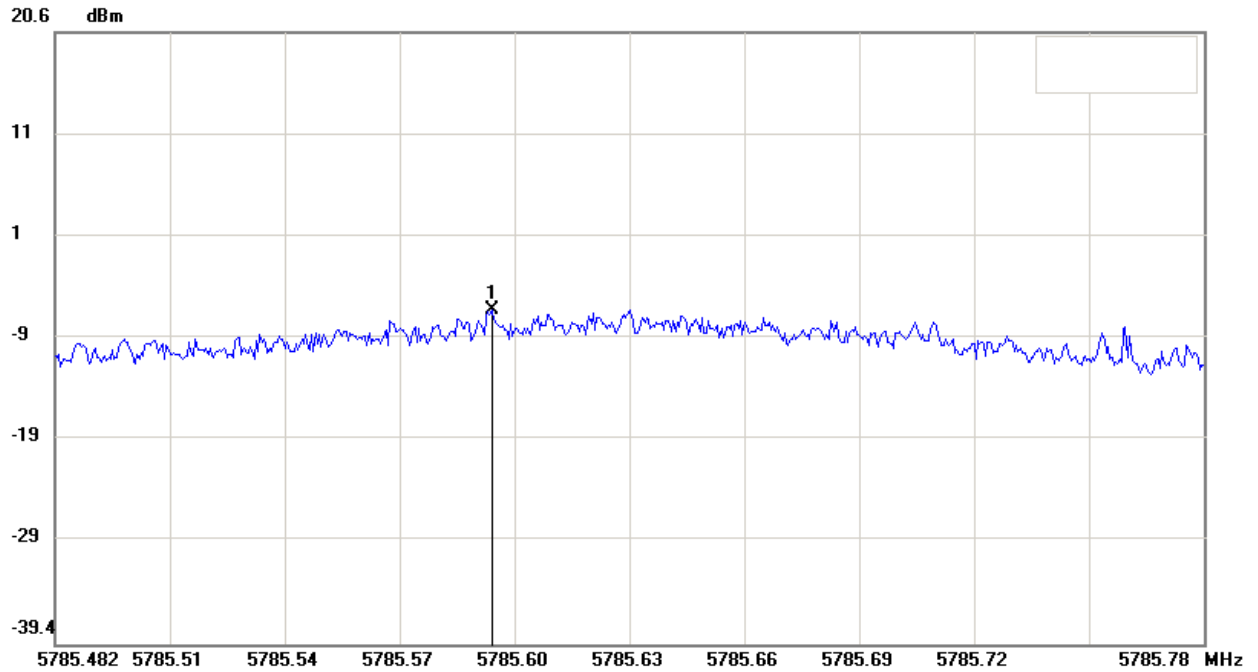
| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5745.8813 | -7.16 |

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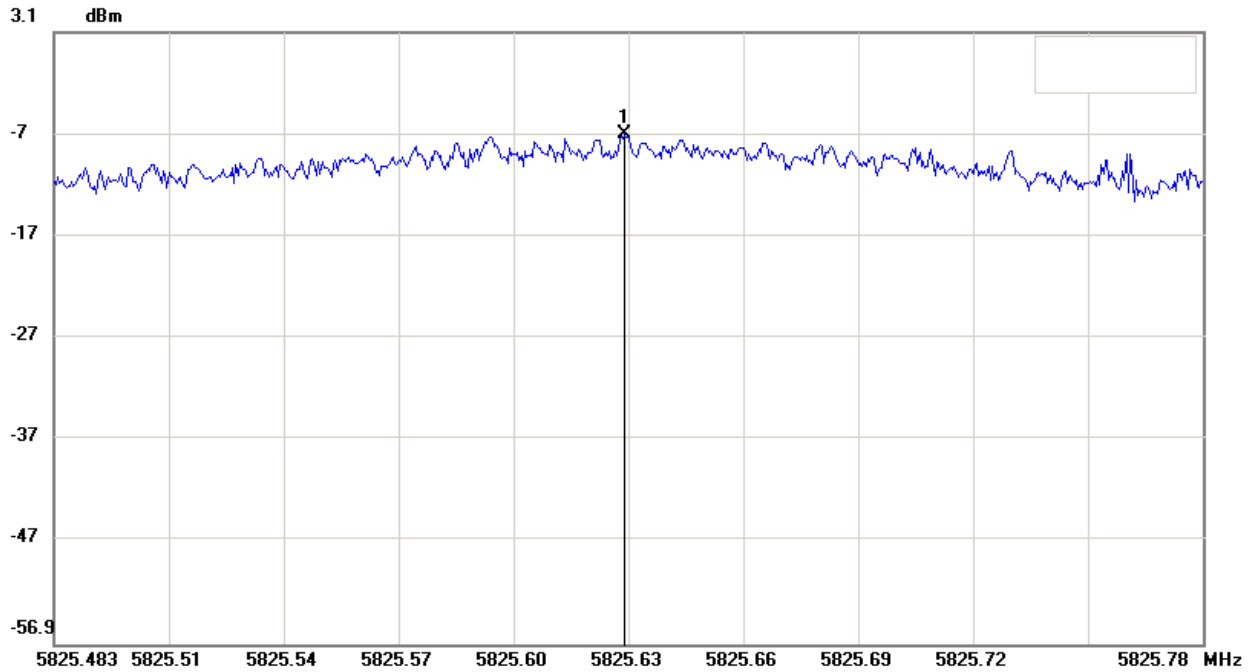
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| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 157-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5785.5964 | -6.54 |



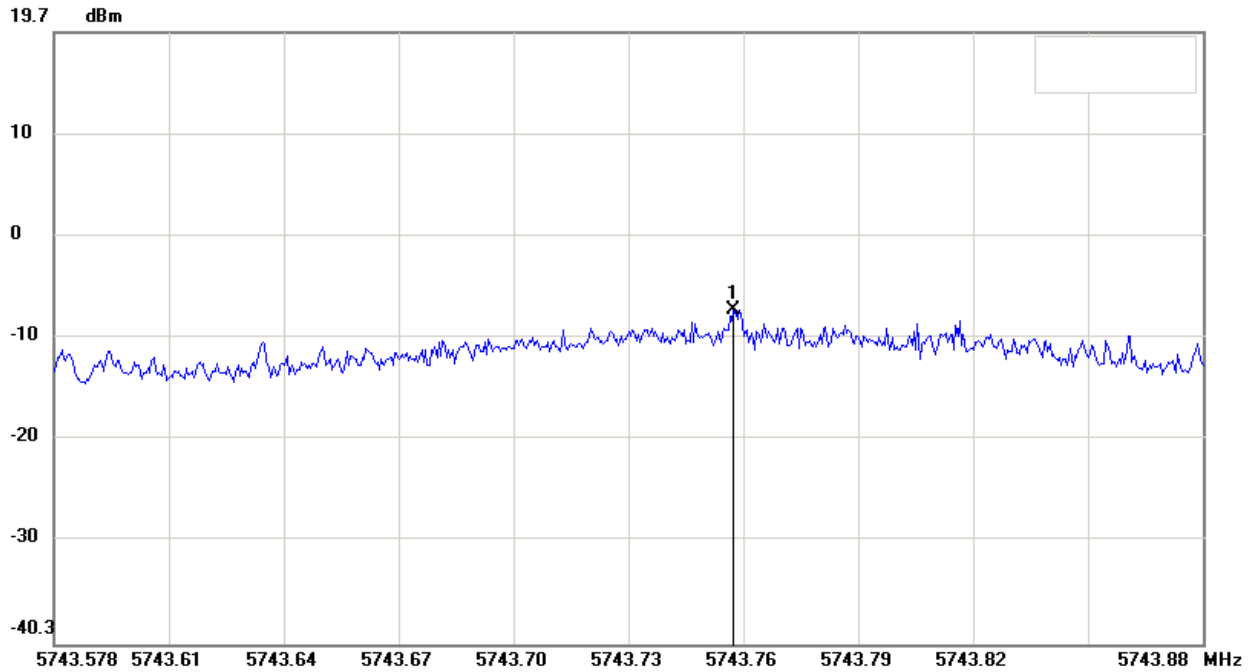
| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5825.6317 | -6.89 |

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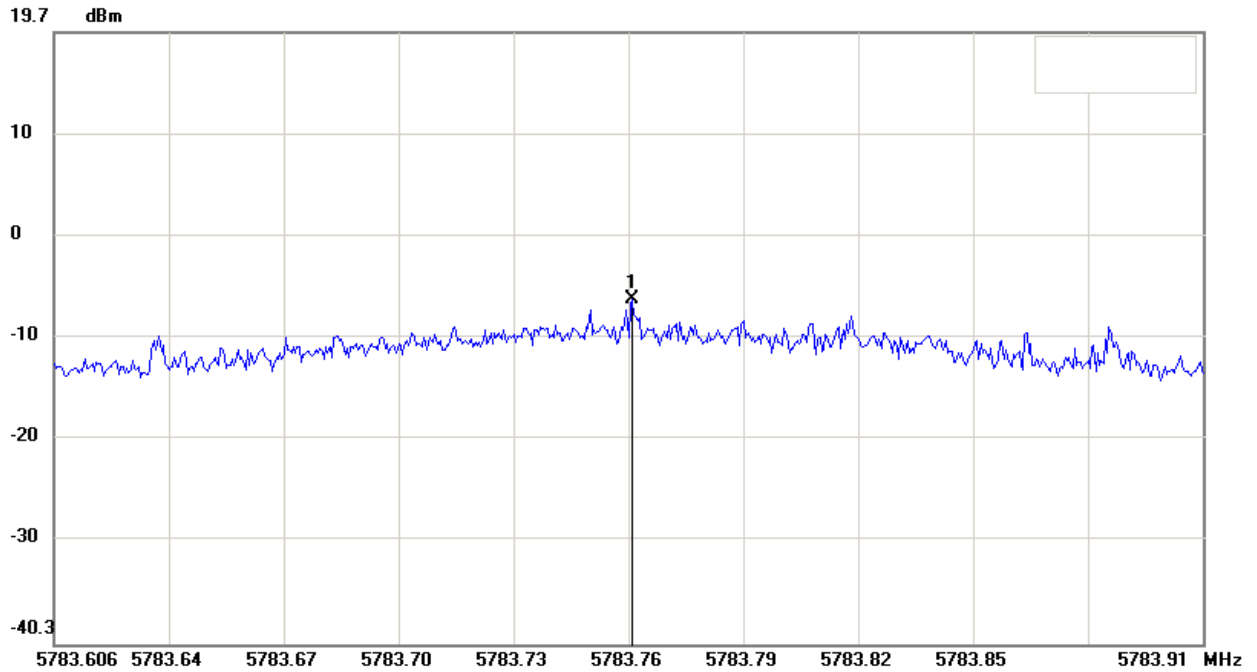
Condition: Chain 1 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 10000ms Att.: 20dB**
Model: RF-HTN102 **RBW: 3 KHz VBW: 10 KHz**
Test Mode: Transmitting
Note: FCC-802.11an_HT20 Channel 149-Power Density (PK)

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5743.7555 | -7.49 |

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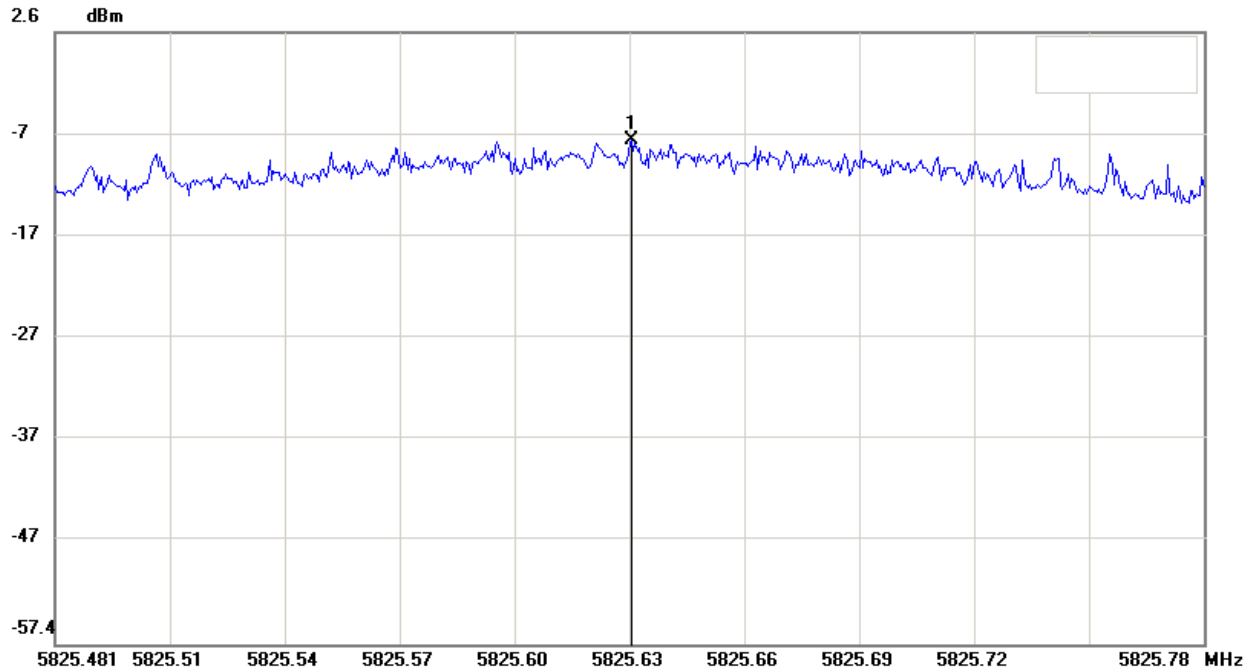
| | | |
|-------------------|--|--|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 157-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5783.7569 | -6.46 |

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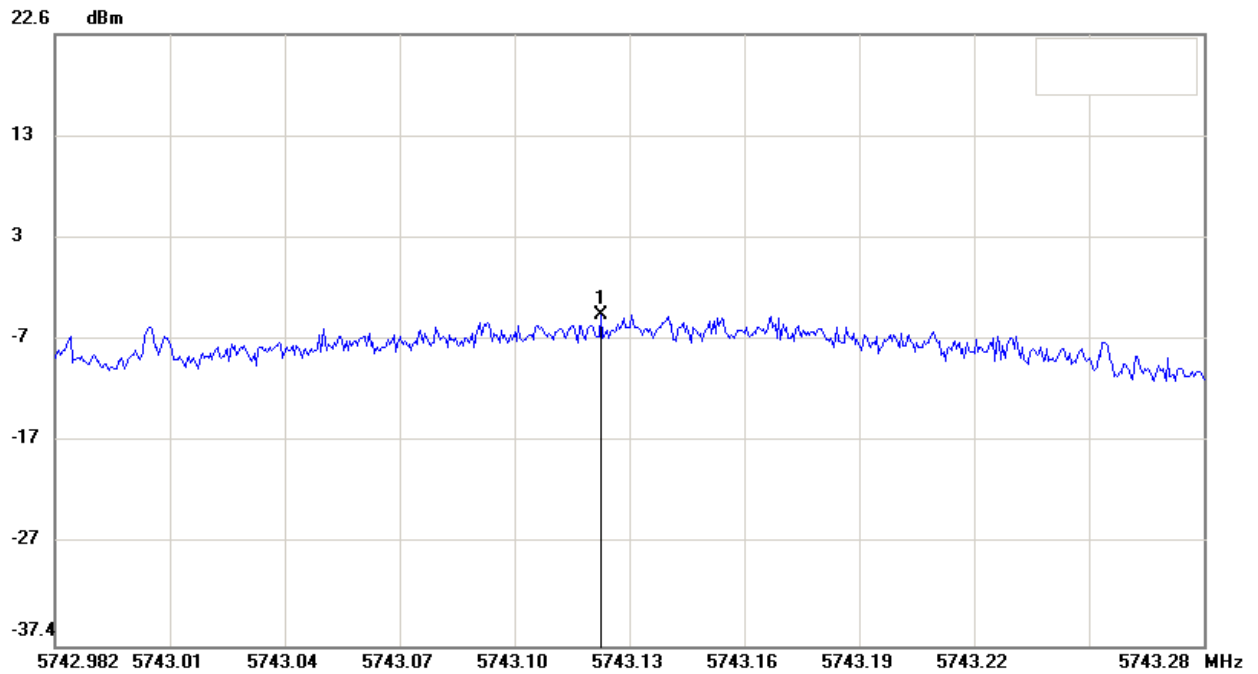
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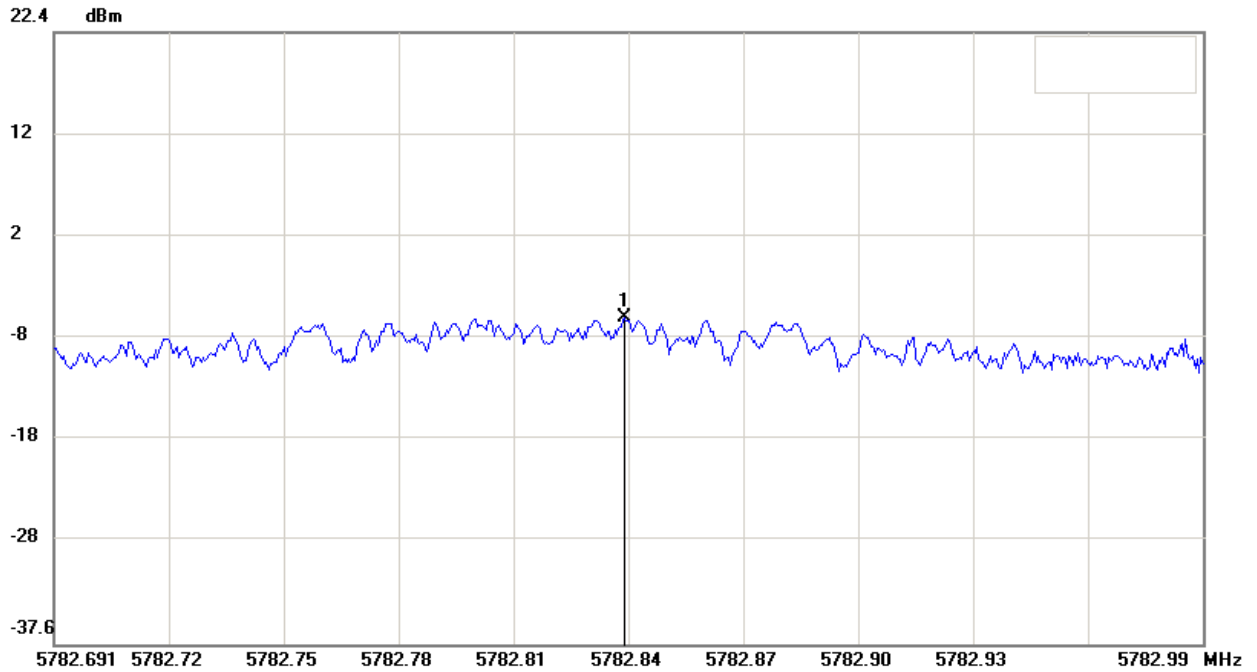
Condition: Chain 1 **RF Conducted**
EUT: Wi-Fi Invite Home Hub **Sweep Time: 10000ms Att.: 10dB**
Model: RF-HTN102 **RBW: 3 KHz VBW: 10 KHz**
Test Mode: Transmitting
Note: FCC-802.11an_HT20 Channel 165-Power Density (PK)

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5825.6318 | -7.98 |



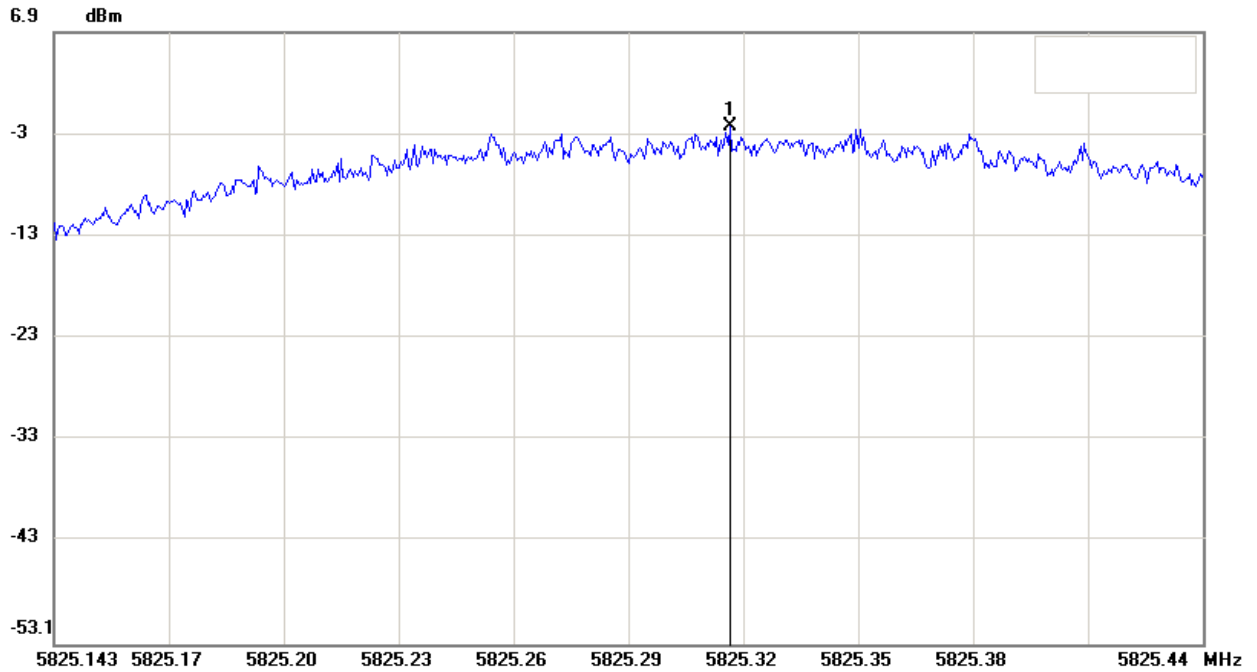
| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 149-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5743.1248 | -4.95 |



| | | |
|-------------------|--|---|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 100000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 157-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5782.8401 | -5.52 |

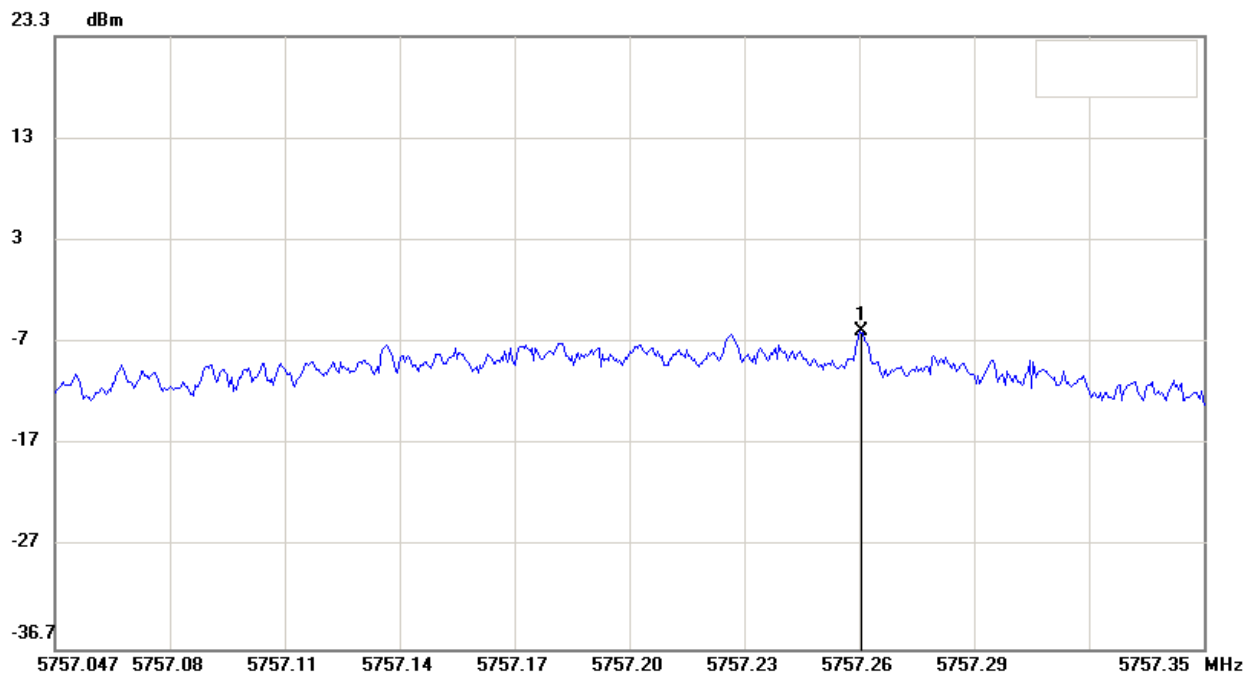


| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 10dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT20 Channel 165-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5825.3194 | -2.40 |

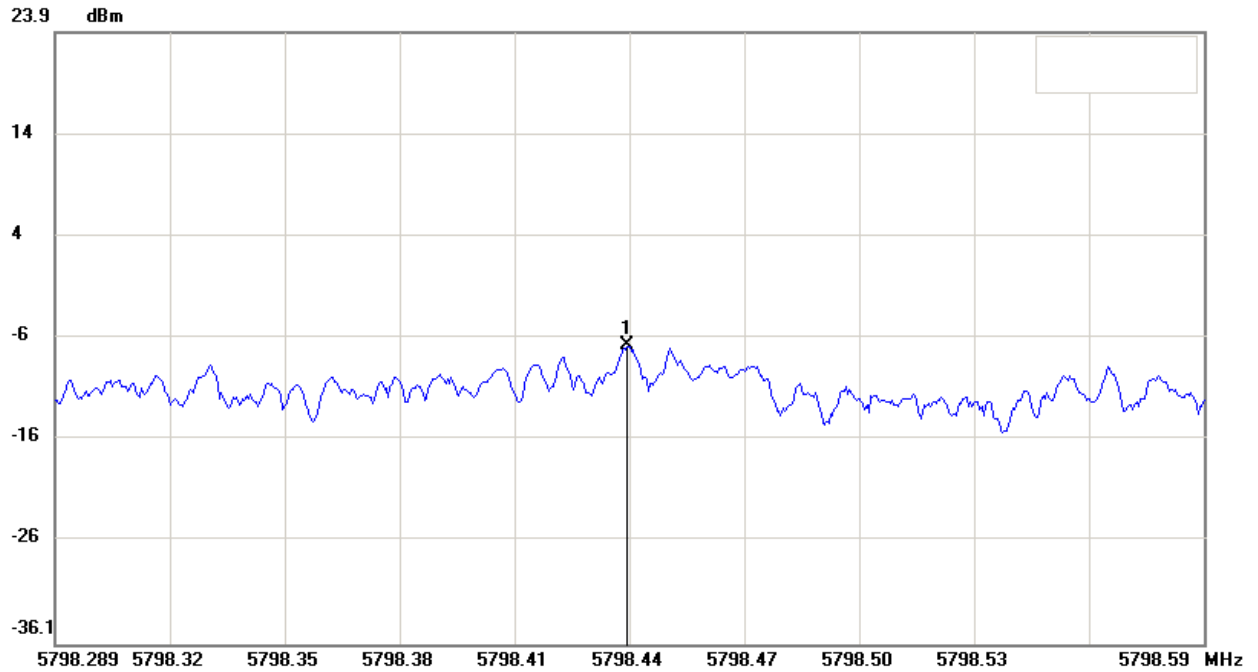
Table 27: Test result of Power Spectral Density, 802.11an, HT40

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) |
|--------------|-------------------------|------------------------------|---------|-------|-------------|
| | | Chain 0 | Chain 1 | Total | |
| Low Channel | 5755 | -5.59 | -4.28 | -3.27 | 8 |
| High Channel | 5795 | -6.85 | -6.50 | -2.22 | 8 |



| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5757.25720 | -5.59 |



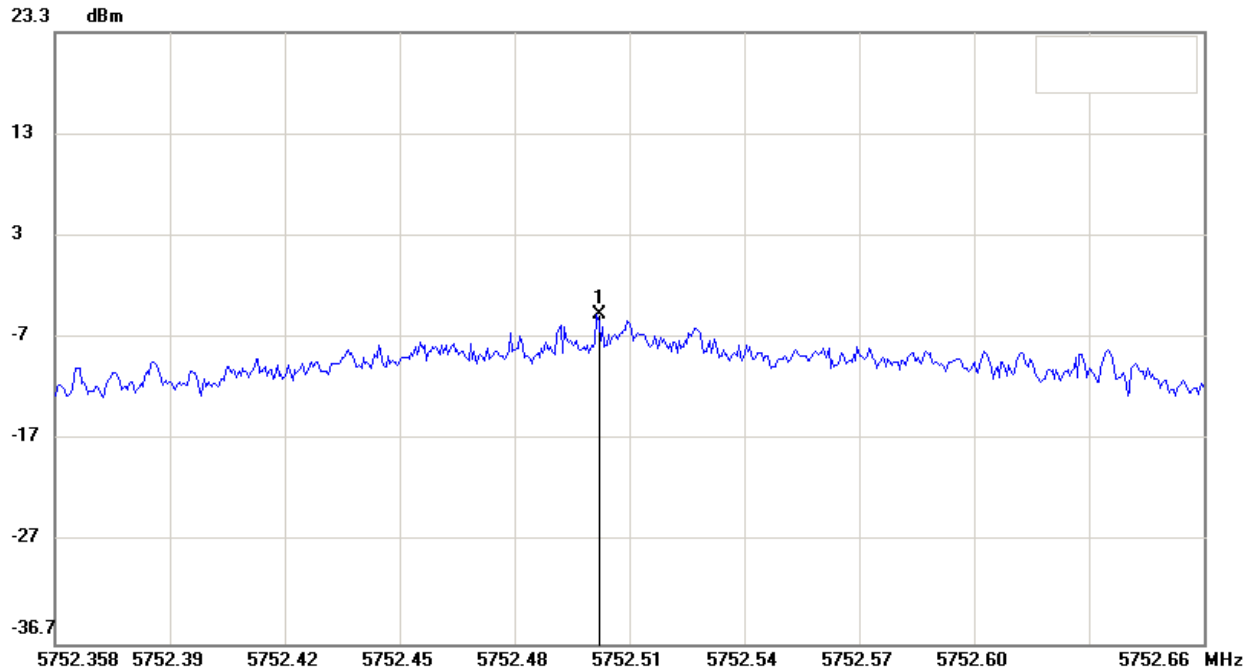
| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 0 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5798.43880 | -6.85 |

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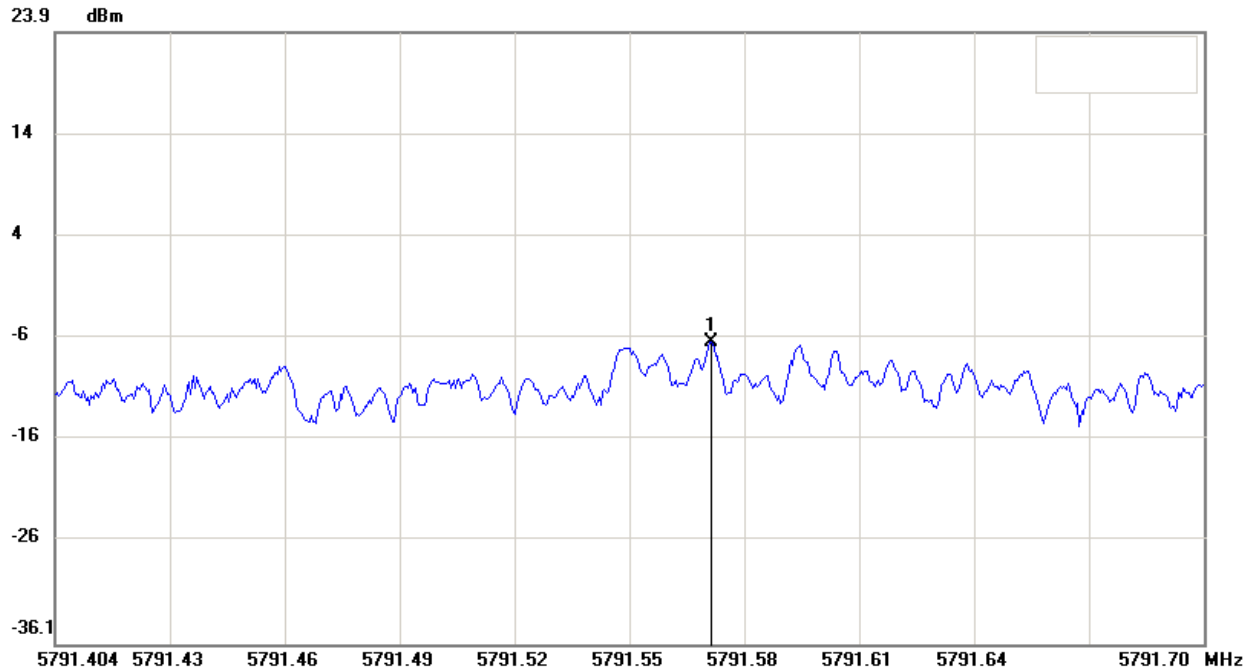
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| | | |
|-------------------|--|--|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 151-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5752.49960 | -4.28 |



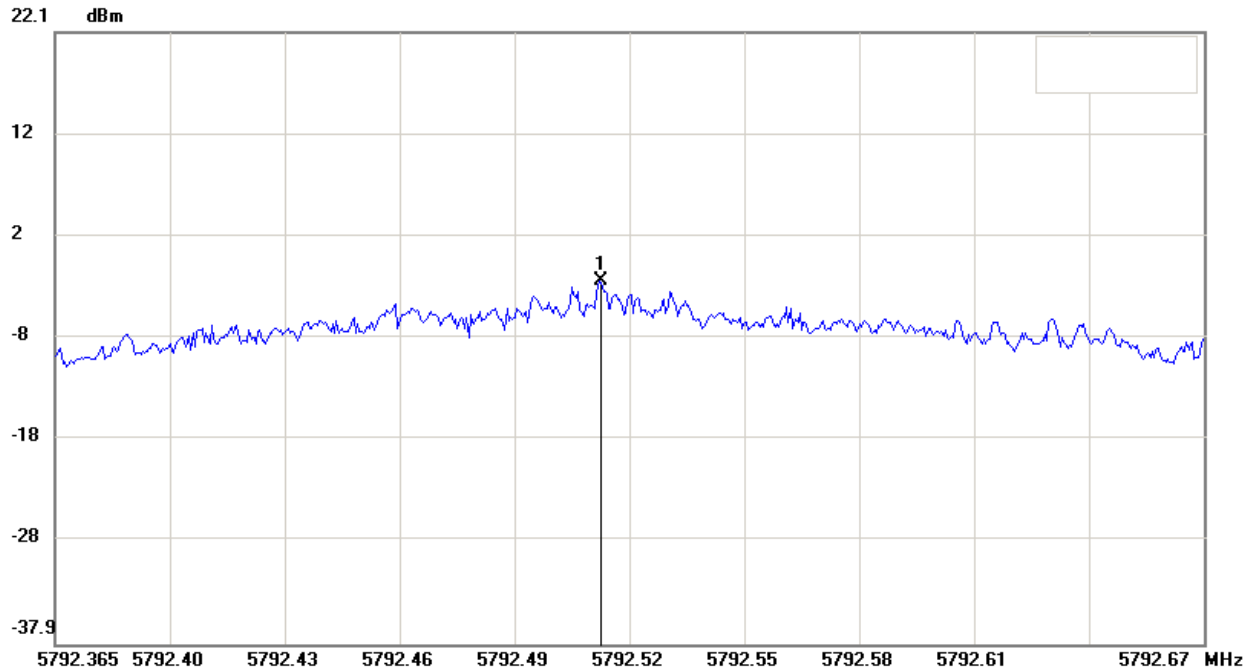
| | | |
|-------------------|---|---------------------------------------|
| Condition: | Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 30dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5791.57550 | -6.50 |

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| | | |
|-------------------|--|---------------------------------------|
| Condition: | Chain 0+Chain 1 | RF Conducted |
| EUT: | Wi-Fi Invite Home Hub | Sweep Time: 10000ms Att.: 20dB |
| Model: | RF-HTN102 | RBW: 3 KHz VBW: 10 KHz |
| Test Mode: | Transmitting | |
| Note: | FCC-802.11an_HT40 Channel 159-Power Density (PK) | |

| No. | Frequency(MHz) | Level(dBm) |
|-----|----------------|------------|
| 1 | 5792.50750 | -2.22 |

5.1.6 Spurious Emission

RESULT:**Passed**

Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.4: 2003
Limits : Refer to 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A, B
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa

Pre-test performed within frequency range 9kHz to 30Mhz, and the emissions level of below 30MHz are too far below the limit, hence test result below 30Mhz are omitted.

Refer to appendix 1 for details.

Table 28: Test result of Spurious Emissions, 802.11b
a) Channel 1

Fundamental Frequency: 2412 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4824.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7236.000 | --- | --- | --- | --- | -0.3 | --- | --- | 74.0 | 54.0 |
| 14472.000 | --- | --- | --- | --- | 8.8 | --- | --- | 74.0 | 54.0 |
| 19296.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |

b) Channel 6

Fundamental Frequency: 2437 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4874.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7311.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 12185.000 | --- | --- | --- | --- | 4.2 | --- | --- | 74.0 | 54.0 |
| 19496.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |

c) Channel 11

Fundamental Frequency: 2462 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4924.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7386.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 12310.000 | --- | --- | --- | --- | 4.4 | --- | --- | 74.0 | 54.0 |
| 19696.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |
| 22158.000 | --- | --- | --- | --- | -4.5 | --- | --- | 74.0 | 54.0 |

Note :

1. Item of margin shown in above table refers to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 29: Test result of Spurious Emissions, 802.11g
a) Channel 1

Fundamental Frequency: 2412 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4824.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7236.000 | --- | --- | --- | --- | -0.3 | --- | --- | 74.0 | 54.0 |
| 9648.000 | --- | --- | --- | --- | 2.0 | --- | --- | 74.0 | 54.0 |
| 19296.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |

b) Channel 6

Fundamental Frequency: 2437 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4874.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7311.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 9748.000 | --- | --- | --- | --- | 2.3 | --- | --- | 74.0 | 54.0 |
| 19496.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |

c) Channel 11

Fundamental Frequency: 2462 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4924.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7386.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 9848.000 | --- | --- | --- | --- | 2.3 | --- | --- | 74.0 | 54.0 |
| 19696.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |
| 22158.000 | --- | --- | --- | --- | -4.5 | --- | --- | 74.0 | 54.0 |

Note :

1. Item of margin shown in above table refers to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 30: Test result of Spurious Emissions, 802.11gn, HT20
a) Channel 1

Fundamental Frequency: 2412 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4824.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7236.000 | --- | --- | --- | --- | -0.3 | --- | --- | 74.0 | 54.0 |
| 9648.000 | --- | --- | --- | --- | 2.0 | --- | --- | 74.0 | 54.0 |
| 19296.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |

b) Channel 6

Fundamental Frequency: 2437 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4874.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7311.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 12185.000 | --- | --- | --- | --- | 4.2 | --- | --- | 74.0 | 54.0 |
| 19496.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |

c) Channel 11

Fundamental Frequency: 2462 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4924.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7386.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 12310.000 | --- | --- | --- | --- | 4.4 | --- | --- | 74.0 | 54.0 |
| 19696.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |
| 22158.000 | --- | --- | --- | --- | -4.5 | --- | --- | 74.0 | 54.0 |

Note :

1. Item of margin shown in above table refers to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 31: Test result of Spurious Emissions, 802.11gn, HT40
a) Channel 3

Fundamental Frequency: 2422 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4844.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7266.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 9688.000 | --- | --- | --- | --- | 2.0 | --- | --- | 74.0 | 54.0 |
| 19376.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |

b) Channel 6

Fundamental Frequency: 2437 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4874.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7311.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 9748.000 | --- | --- | --- | --- | 2.3 | --- | --- | 74.0 | 54.0 |
| 19496.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |

c) Channel 9

Fundamental Frequency: 2452 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 4904.000 | --- | --- | --- | --- | -2.3 | --- | --- | 74.0 | 54.0 |
| 7356.000 | --- | --- | --- | --- | 0.9 | --- | --- | 74.0 | 54.0 |
| 9808.000 | --- | --- | --- | --- | 2.3 | --- | --- | 74.0 | 54.0 |
| 19616.000 | --- | --- | --- | --- | -6.4 | --- | --- | 74.0 | 54.0 |
| 22068.000 | --- | --- | --- | --- | -4.5 | --- | --- | 74.0 | 54.0 |

Note :

1. Item of margin shown in above table refers to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 32: Test result of Spurious Emissions, 802.11a

a) Channel 149
 Fundamental Frequency: 5745 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 11450.000 | --- | --- | --- | --- | 4.3 | --- | --- | 74.0 | 54.0 |
| 17175.000 | --- | --- | --- | --- | 7.4 | --- | --- | 74.0 | 54.0 |

b) Channel 157
 Fundamental Frequency: 5785 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 11570.000 | --- | --- | --- | --- | 4.3 | --- | --- | 74.0 | 54.0 |
| 17355.000 | --- | --- | --- | --- | 10.1 | --- | --- | 74.0 | 54.0 |

c) Channel 165
 Fundamental Frequency: 5825 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 11650.000 | --- | --- | --- | --- | 4.3 | --- | --- | 74.0 | 54.0 |
| 17475.000 | --- | --- | --- | --- | 10.1 | --- | --- | 74.0 | 54.0 |

Note :

1. Item of margin shown in above table refers to average limit.
2. Remark "----" means that the emissions level is too low to be measured.

Table 33: Test result of Spurious Emissions, 802.11an, HT20

a) Channel 149
 Fundamental Frequency: 5725 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 11450.000 | --- | --- | --- | --- | 4.3 | --- | --- | 74.0 | 54.0 |
| 17175.000 | --- | --- | --- | --- | 7.4 | --- | --- | 74.0 | 54.0 |

b) Channel 157
 Fundamental Frequency: 5785 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 11570.000 | --- | --- | --- | --- | 4.3 | --- | --- | 74.0 | 54.0 |
| 17355.000 | --- | --- | --- | --- | 10.1 | --- | --- | 74.0 | 54.0 |

c) Channel 165
 Fundamental Frequency: 5825 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|-----|------|-----|-------------------------|------------------------|-----|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 11650.000 | --- | --- | --- | --- | 4.3 | --- | --- | 74.0 | 54.0 |
| 17475.000 | --- | --- | --- | --- | 10.1 | --- | --- | 74.0 | 54.0 |

Note :

1. Item of margin shown in above table refers to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 34: Test result of Spurious Emissions, 802.11an, HT40

a) Channel 151
 Fundamental Frequency: 5755 MHz

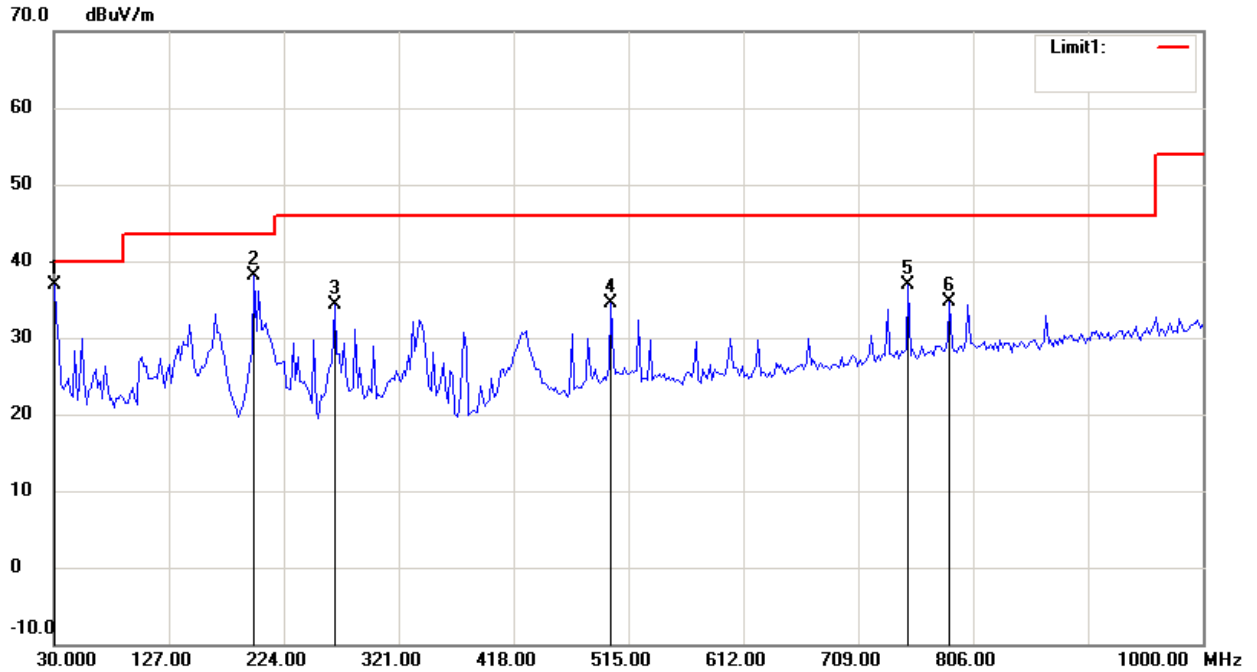
| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 11510.000 | 59.6 | 44.1 | 64.8 | 49.1 | 4.4 | 69.2 | 53.5 | 74.0 | 54.0 |
| 17265.000 | --- | --- | --- | --- | 8.93 | --- | --- | 74.0 | 54.0 |

b) Channel 159
 Fundamental Frequency: 5795 MHz

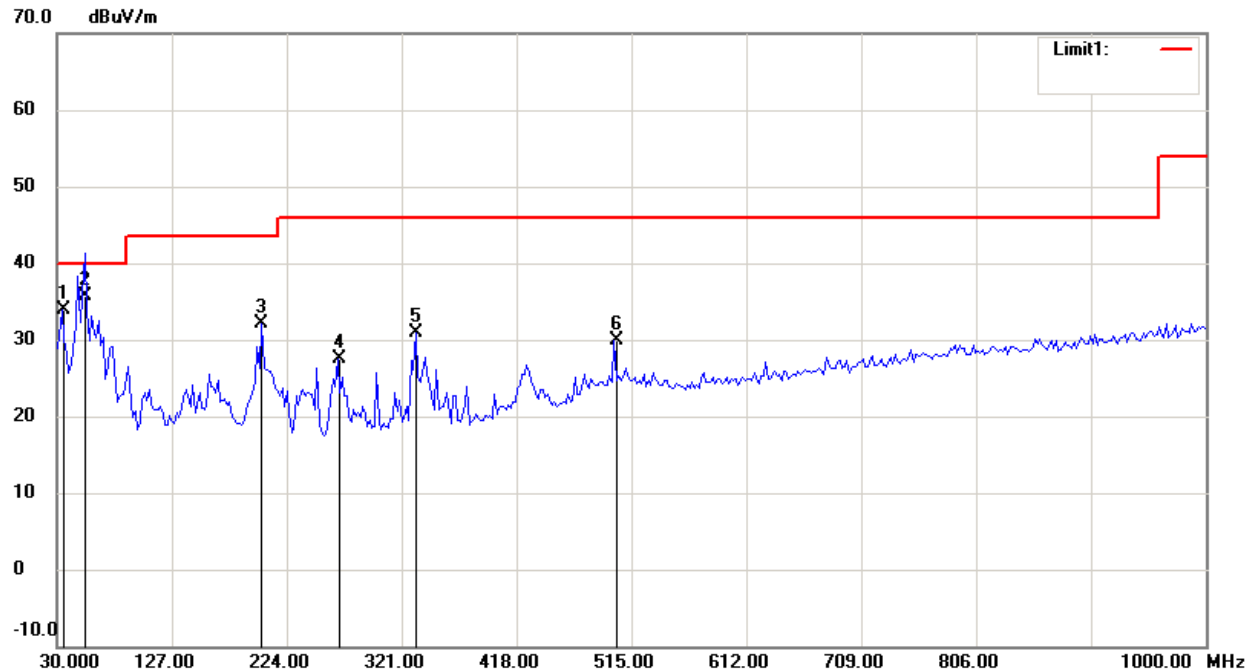
| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 11590.000 | 59.8 | 44.3 | 64.2 | 49.2 | 4.4 | 68.6 | 53.6 | 74.0 | 54.0 |
| 17385.000 | --- | --- | --- | --- | 9.58 | --- | --- | 74.0 | 54.0 |

Note :

1. Item of margin shown in above table refer to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 35: Test result of Radiated Emissions below 1GHz, Horizontal polarization


| No. | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----------|----------|----------|-----------|----------|----------|--------|
| | (MHz) | (dBuV/m) | | dB/m | (dBuV/m) | (dBuV/m) | (dB) |
| 1 | 30.0000 | 17.11 | peak | 19.84 | 36.95 | 40.00 | -3.05 |
| 2 | 199.1182 | 20.17 | peak | 17.90 | 38.07 | 43.50 | -5.43 |
| 3 | 267.1543 | 18.74 | peak | 15.58 | 34.32 | 46.00 | -11.68 |
| 4 | 500.4208 | 11.54 | peak | 23.03 | 34.57 | 46.00 | -11.43 |
| 5 | 751.1824 | 11.35 | peak | 25.57 | 36.92 | 46.00 | -9.08 |
| 6 | 786.1723 | 8.68 | peak | 26.04 | 34.72 | 46.00 | -11.28 |

Table 36: Test result of Radiated Emissions below 1GHz, Vertical polarization


| No. | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----------|----------|----------|-----------|----------|----------|--------|
| | (MHz) | (dBuV/m) | | dB/m | (dBuV/m) | (dBuV/m) | (dB) |
| 1 | 33.8878 | 15.51 | peak | 18.39 | 33.90 | 40.00 | -6.10 |
| 2 | 53.3267 | 26.51 | QP | 9.16 | 35.67 | 40.00 | -4.33 |
| 3 | 203.0060 | 17.71 | peak | 14.44 | 32.15 | 43.50 | -11.35 |
| 4 | 267.1543 | 11.86 | peak | 15.56 | 27.42 | 46.00 | -18.58 |
| 5 | 333.2465 | 13.88 | peak | 17.09 | 30.97 | 46.00 | -15.03 |
| 6 | 500.4208 | 9.17 | peak | 20.75 | 29.92 | 46.00 | -16.08 |

Table 37: Test result of Radiated Emissions above 1GHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result @3m (dBuV/m) | Limit @3m (dBuV/m) | Margin (dB) |
|--|-------------|----------------------|-----------------------|---------------------|--------------------|-------------|
| Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured. | | | | | | |

Table 38: Test result of Spurious Emissions in restrict band

a) 802.11b

| Operation Channel | Test Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|-------------------|----------------------|----------------|------|-------|-------|-------------------|---------------------|-------|--------------------|------|
| | | H | | V | | | Peak | Ave | Peak | Ave. |
| | | Peak | Ave | Peak | Ave | | | | | |
| 1 | 2390.000 | 18.51 | 7.96 | 29.68 | 11.84 | 29.8 | 59.48 | 41.64 | 74 | 54 |
| 11 | 2483.500 | 18.43 | 7.78 | 29.24 | 11.23 | 29.8 | 59.04 | 41.03 | 74 | 54 |

b) 802.11g

| Operation Channel | Test Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|-------------------|----------------------|----------------|-------|-------|-------|-------------------|---------------------|-------|--------------------|------|
| | | H | | V | | | Peak | Ave | Peak | Ave. |
| | | Peak | Ave | Peak | Ave | | | | | |
| 1 | 2390.000 | 24.76 | 11.16 | 41.62 | 23.74 | 29.8 | 71.42 | 53.54 | 74 | 54 |
| 11 | 2483.500 | 18.69 | 11.03 | 35.12 | 23.09 | 29.8 | 64.92 | 52.89 | 74 | 54 |

Note :

1. Remark "---" means that the emissions level is too low to be measured.
2. The result is the highest value of radiated emission from restrict band of 2310 ~ 2390 MHz and 2483.5 ~ 2500 MHz.

c) 802.11gn, HT20

| Operation Channel | Test Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|-------------------|----------------------|----------------|-------|-------|-------|-------------------|---------------------|-------|--------------------|------|
| | | H | | V | | | Peak | Ave | Peak | Ave. |
| | | Peak | Ave | Peak | Ave | | | | | |
| 1 | 2390.000 | 24.39 | 11.46 | 39.21 | 22.13 | 29.8 | 69.01 | 51.93 | 74 | 54 |
| 11 | 2483.500 | 17.36 | 11.22 | 34.28 | 22.05 | 29.8 | 64.08 | 51.85 | 74 | 54 |

d) 802.11gn, HT40

| Operation Channel | Test Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|-------------------|----------------------|----------------|-------|-------|-------|-------------------|---------------------|-------|--------------------|------|
| | | H | | V | | | Peak | Ave | Peak | Ave. |
| | | Peak | Ave | Peak | Ave | | | | | |
| 3 | 2390.000 | 29.21 | 10.49 | 40.23 | 22.02 | 29.8 | 70.03 | 51.82 | 74 | 54 |
| 9 | 2483.500 | 29.36 | 10.28 | 40.01 | 23.23 | 29.8 | 69.81 | 53.03 | 74 | 54 |

Note :

1. Remark "---" means that the emissions level is too low to be measured.
2. The result is the highest value of radiated emission from restrict band of 2310 ~ 2390 MHz and 2483.5 ~ 2500 MHz.

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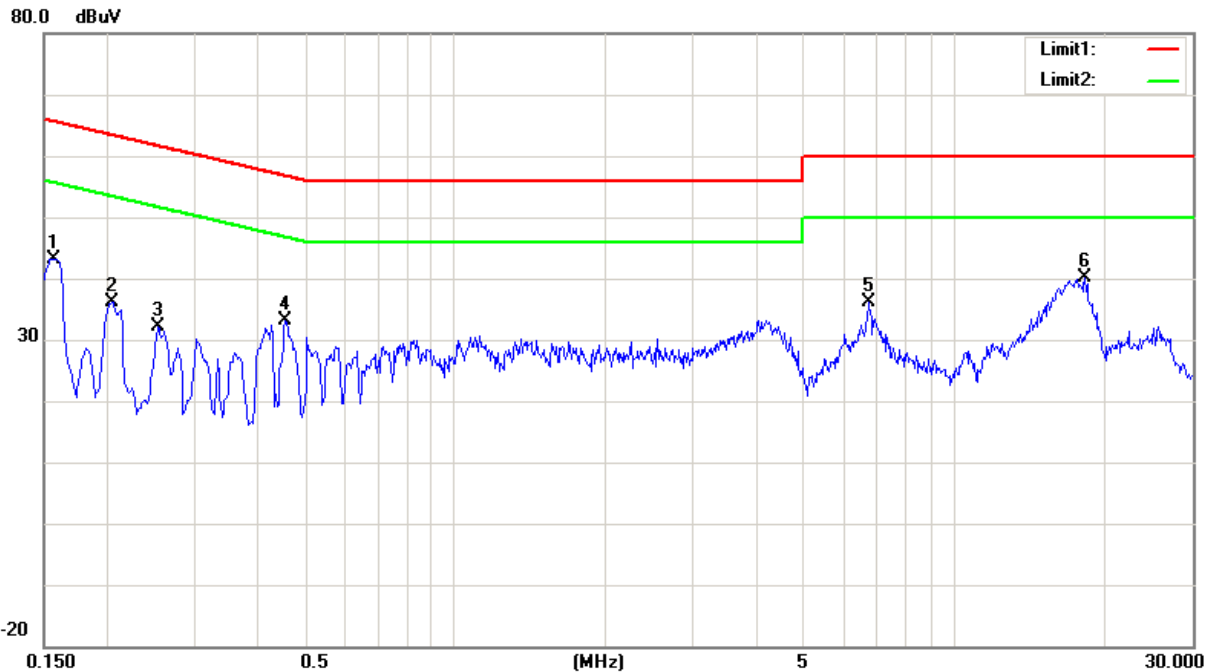
5.1.7 Conducted emissions

RESULT:**Passed**

Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC Part 15.207(a)
Basic standard : ANSI C63.4: 2003
Frequency range : 0.15 – 30MHz
Limits : FCC Part 15.207(a)
Kind of test site : Shield room

Test setup

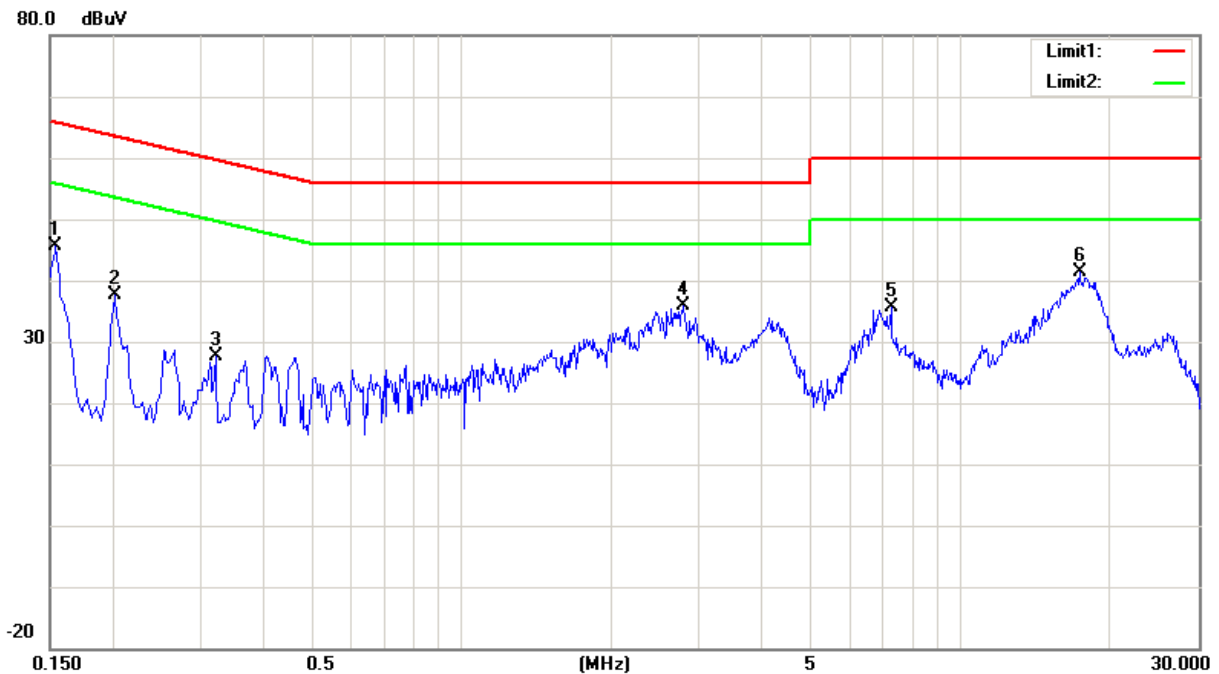
Input Voltage : DC 12V (via AC/DC Adaptor)
Operation Mode : A&B&C
Earthing : Not Connected
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa


Condition:
Phase:
L1

| No. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected dB | Result (dBuV) | Limit (dBuV) | Margin (dB) |
|-----|-----------------|----------------|----------|--------------|---------------|--------------|-------------|
| 1 | 0.1580 | 33.56 | peak | 9.66 | 43.22 | 65.57 | -22.35 |
| 2 | 0.2060 | 26.51 | peak | 9.65 | 36.16 | 63.37 | -27.21 |
| 3 | 0.2540 | 22.50 | peak | 9.65 | 32.15 | 61.63 | -29.48 |
| 4 | 0.4580 | 23.41 | peak | 9.66 | 33.07 | 56.73 | -23.66 |
| 5 | 6.7660 | 26.23 | peak | 9.79 | 36.02 | 60.00 | -23.98 |
| 6 | 18.2420 | 30.23 | peak | 10.01 | 40.24 | 60.00 | -19.76 |

Note:

1. "****" means the value was too low to be measured.
2. If the data table appeared symbol of "----" means the Q.P. value is under the limit of AVG. so, the AVG. value doesn't need to be measured.
3. "#" means the noise was too low, so record the peak value.
4. The estimated measurement uncertainty of the result measurement is $\pm 2.5\text{dB}$.


Condition:
Phase:
N

| No. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected dB | Result (dBuV) | Limit (dBuV) | Margin (dB) |
|-----|-----------------|----------------|----------|--------------|---------------|--------------|-------------|
| 1 | 0.1540 | 36.00 | peak | 9.66 | 45.66 | 65.78 | -20.12 |
| 2 | 0.2020 | 28.05 | peak | 9.65 | 37.70 | 63.53 | -25.83 |
| 3 | 0.3220 | 18.03 | peak | 9.65 | 27.68 | 59.66 | -31.98 |
| 4 | 2.7820 | 26.16 | peak | 9.71 | 35.87 | 56.00 | -20.13 |
| 5 | 7.2620 | 25.72 | peak | 9.79 | 35.51 | 60.00 | -24.49 |
| 6 | 17.3340 | 31.39 | peak | 10.00 | 41.39 | 60.00 | -18.61 |

Note:

1. "****" means the value was too low to be measured.
2. If the data table appeared symbol of "----" means the Q.P. value is under the limit of AVG. so, the AVG. value doesn't need to be measured.
3. "#" means the noise was too low, so record the peak value.
4. The estimated measurement uncertainty of the result measurement is ± 2.5 dB.

5.2 Transmitter Requirement & Test Suites – Part 15 Subpart E

5.2.1 Antenna Requirement

RESULT:
Passed

Test date : 2011-01-03 to 2011-01-10
 Test standard : FCC Part 15.407(a) and Part 15.203
 Limit : the use of antennas with directional gains that do not exceed 6 dBi, if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

The maximum gains of each type of antennas for all legacy / SISO modes test.

| Band | Ant 1 gain (dBi) | Ant 2 gain (dBi) |
|----------------|------------------|------------------|
| 5150 ~ 5250MHz | 4.15 | 4.39 |

The antenna combinations for 2x2 (CCD) modes test:

| Frequency Band | Antennas combination | Ant 1 gain | Ant 2 gain | $10^{(Ant1/10)}$ | $10^{(Ant2/10)}$ | $10^{(Ant1/10)} + 10^{(Ant2/10)}$ | Combination Gains |
|-----------------------------|----------------------|------------|------------|------------------|------------------|-----------------------------------|-------------------|
| 5150 ~ 5250MHz HT20&HT40 | Ant1/Ant2 | 4.15 | 4.39 | 2.600 | 2.748 | 5.348 | 7.28 |

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5.2.2 26dB Bandwidth and 99% Bandwidth

RESULT:**Passed**

Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC Part 15.407(a)(1)
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa

Table 39: Test result of 26dB Bandwidth & 99% Bandwidth, 802.11a

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|----------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 5180 | 18.417 | 19.201 | 16.1773 | 16.3171 | 500kHz |
| Mid Channel | 5200 | 18.712 | 18.807 | 16.2512 | 16.3203 | 500kHz |
| High Channel | 5240 | 18.032 | 18.551 | 16.3018 | 16.3595 | 500kHz |

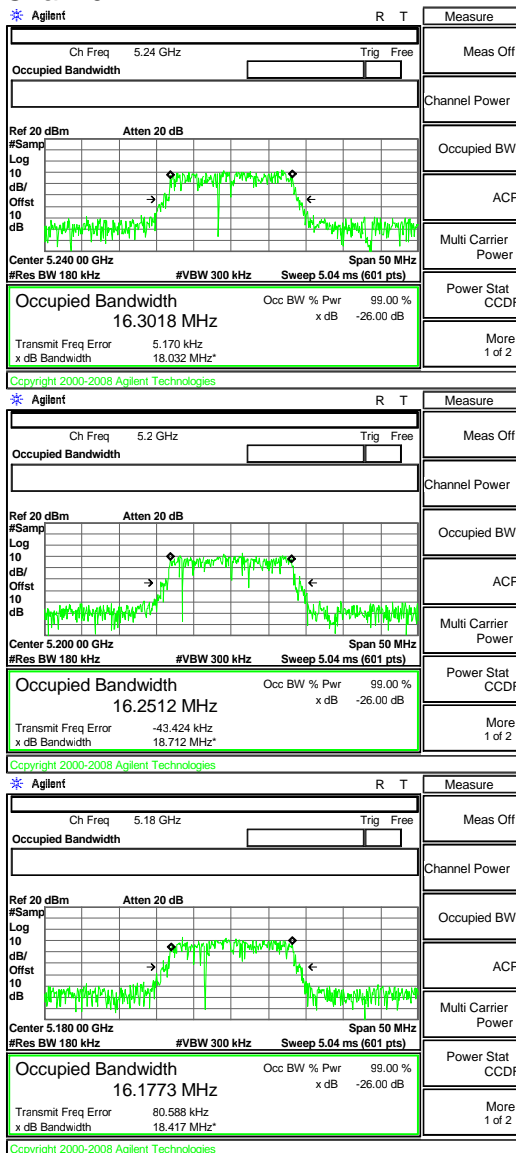
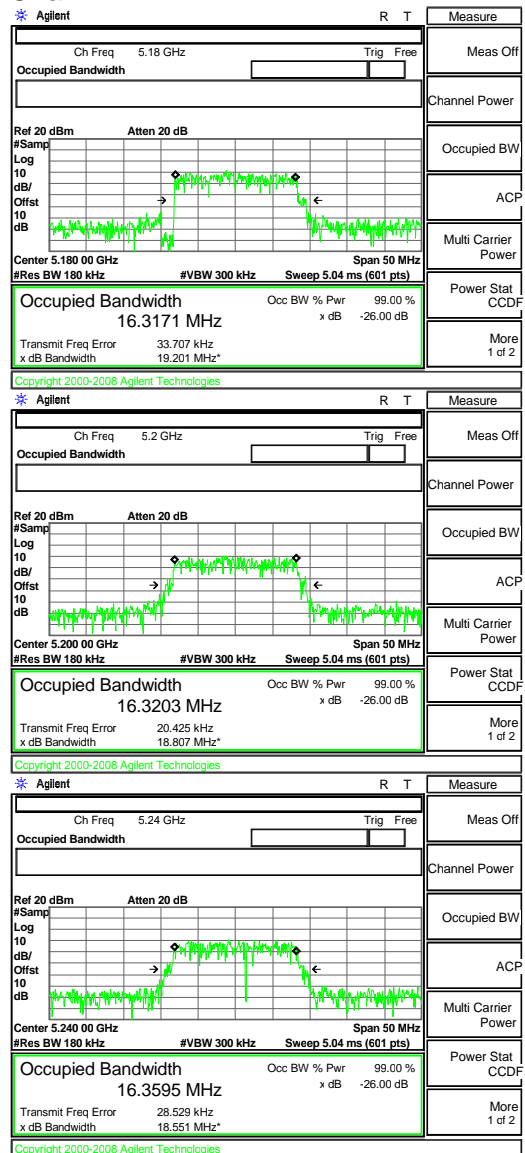
Chain 0

Chain 1


Table 40: Test result of 26dB Bandwidth & 99% Bandwidth, 802.11an, HT20

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|----------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 5180 | 18.620 | 18.727 | 17.5417 | 17.5536 | 500kHz |
| Mid Channel | 5200 | 18.941 | 18.929 | 17.5310 | 17.5570 | 500kHz |
| High Channel | 5240 | 18.758 | 18.840 | 17.5946 | 17.6339 | 500kHz |

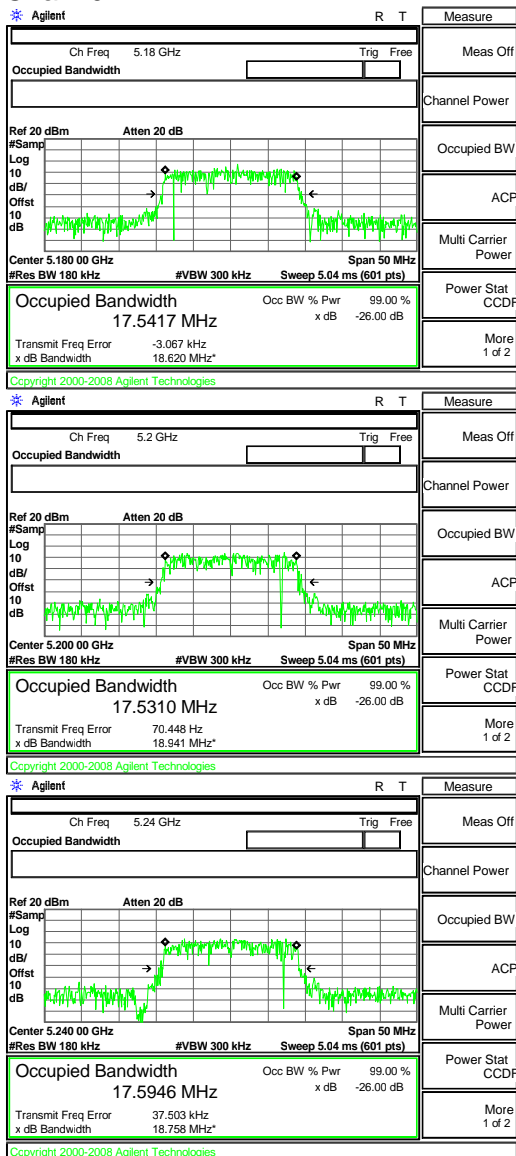
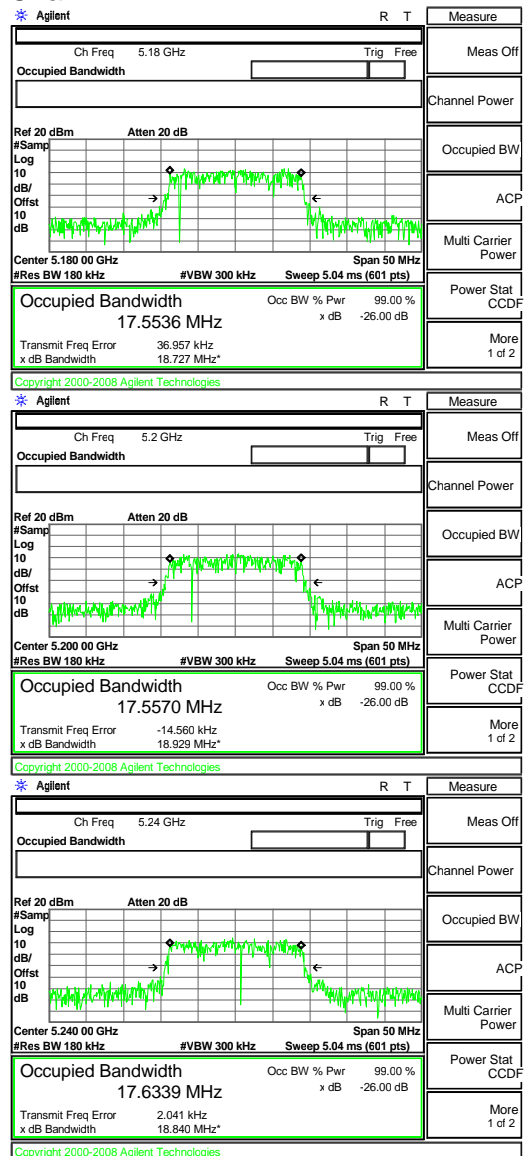
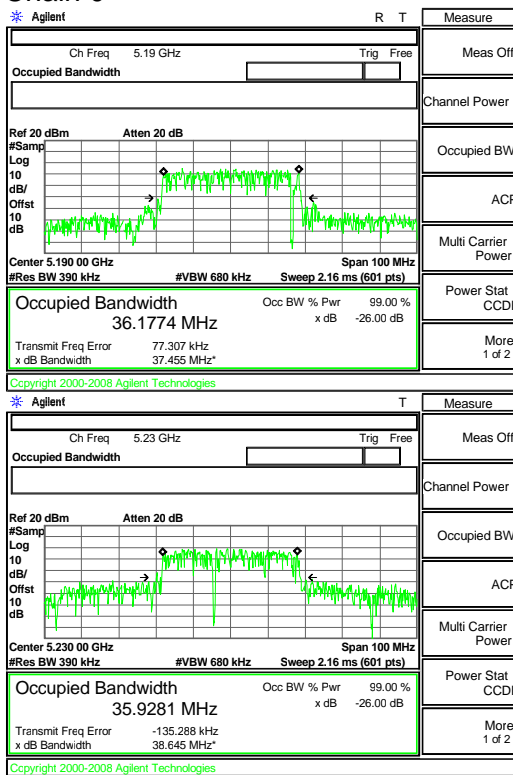
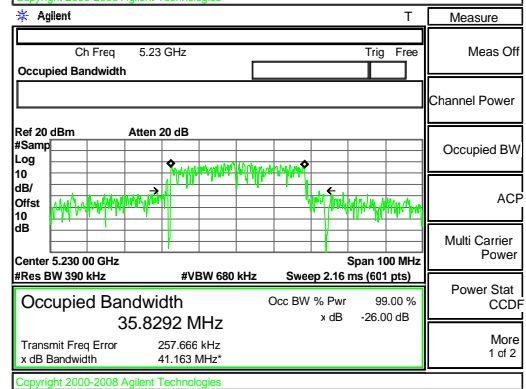
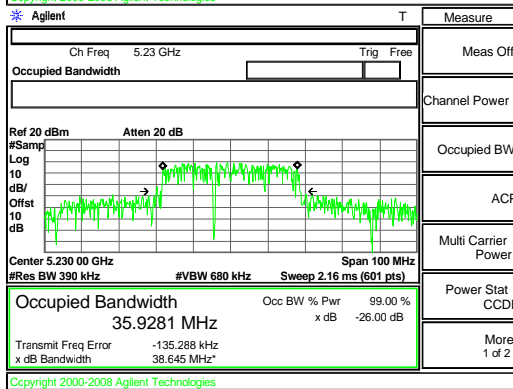
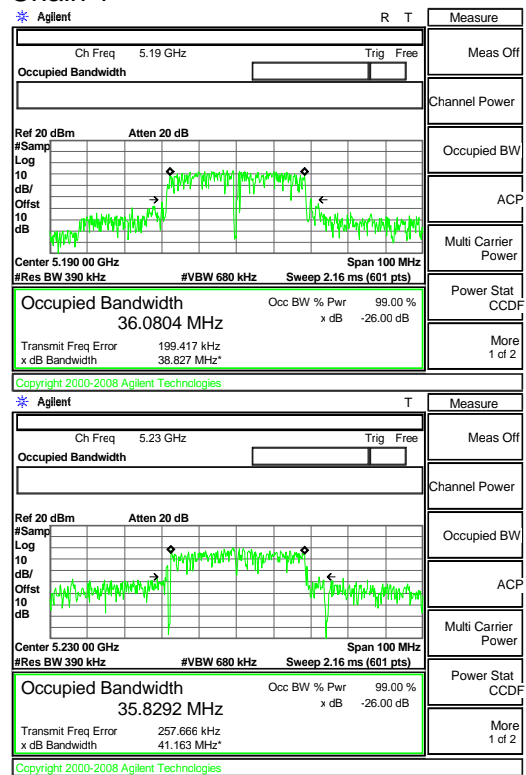
Chain 0

Chain 1


Table 41: Test result of 26dB Bandwidth & 99% Bandwidth, 802.11an, HT40

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (MHz) | | 99% Bandwidth (MHz) | | Limit |
|--------------|-------------------------|----------------------|---------|---------------------|---------|--------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low Channel | 5190 | 37.455 | 38.827 | 36.1774 | 36.0804 | 500kHz |
| High Channel | 5230 | 38.645 | 41.163 | 35.9281 | 35.8292 | 500kHz |

Chain 0

Chain 1


5.2.3 Peak Output Power

RESULT:**Passed**

| | | |
|-------------------|---|------------------------------------|
| Test date | : | 2010-12-29 to 2011-01-10 |
| Test standard | : | FCC Part 15.407(a)(1) |
| Basic standard | : | ANSI C63.4: 2003 |
| Limit | : | the lesser of 50mW or 4 dBm+10logB |
| Kind of test site | : | Shielded room |

Test setup

| | | |
|----------------------|---|-------------------|
| Test Channel | : | Low/ Middle/ High |
| Operation Mode | : | A |
| Ambient temperature | : | 20°C |
| Relative humidity | : | 56% |
| Atmospheric pressure | : | 101.0 kPa |

Remark:

1. Fixed Limit = 50mW=17dBm
2. Calculated Limit = 4dBm + 10 log (26dB BW)
3. If antenna gain \leq 6dBi, FCC Limit = (Minimum of Fixed Limit and Calculated Limit) dBm
4. If antenna gain > 6dBi, FCC Limit = (Minimum of Fixed Limit and Calculated Limit) dBm – (highest antenna gain – 6 dBi)

Table 42: Test result of Peak Output Power, 802.11a

| Channel | Channel Frequency (MHz) | Peak Output Power | | | Limit | | |
|----------------|-------------------------|-------------------|---------------|-------------------|---------------|---------------|-------------------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Total Power (dBm) | Chain 0 (dBm) | Chain 1 (dBm) | Total Power (dBm) |
| Low Channel | 5180 | 5.67 | 4.86 | 8.29 | 16.65 | 16.83 | 15.37 |
| Middle Channel | 5200 | 5.91 | 4.84 | 8.42 | 16.72 | 16.74 | 15.44 |
| High Channel | 5240 | 5.99 | 5.07 | 8.56 | 16.56 | 16.68 | 15.28 |

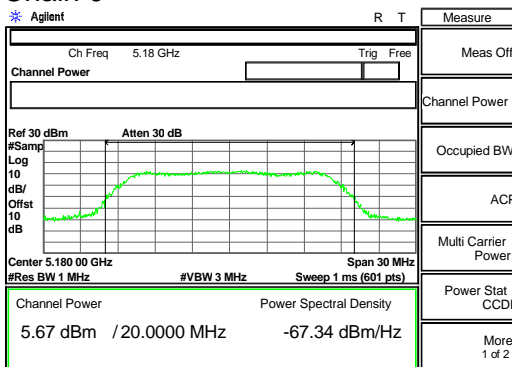
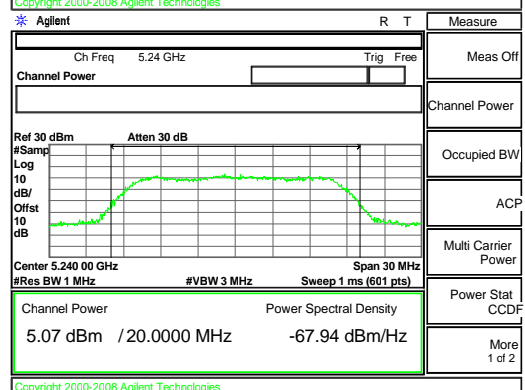
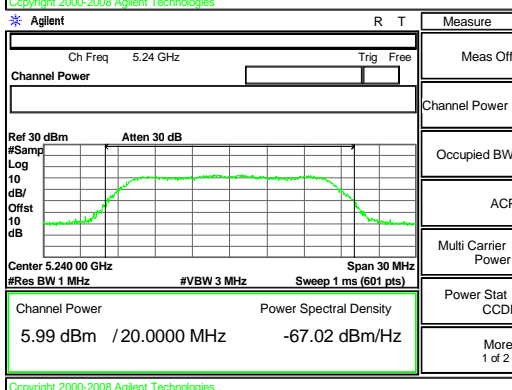
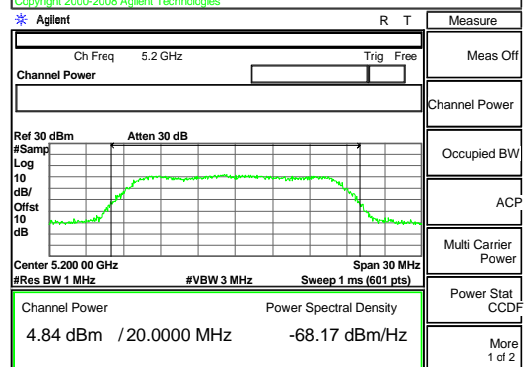
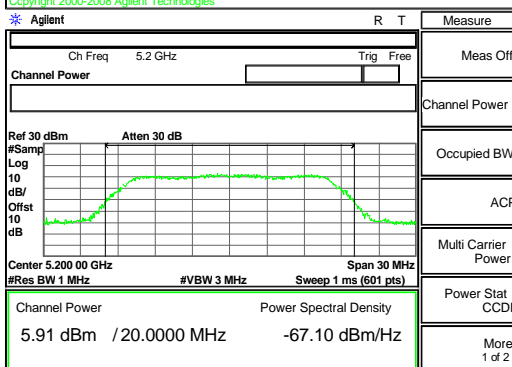
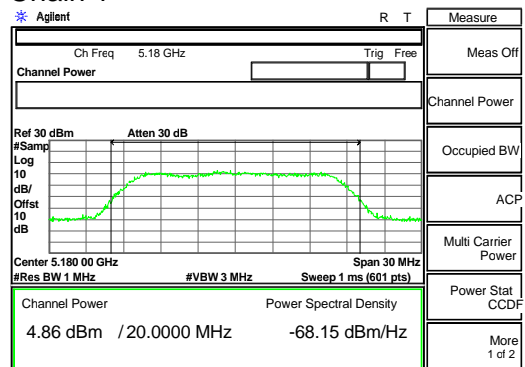
Chain 0

Chain 1


Table 43: Test result of Peak Output Power, 802.11an, HT20

| Channel | Channel Frequency (MHz) | Peak Output Power | | | Limit | | |
|----------------|-------------------------|-------------------|---------------|-------------------|---------------|---------------|-------------------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Total Power (dBm) | Chain 0 (dBm) | Chain 1 (dBm) | Total Power (dBm) |
| Low Channel | 5180 | 8.00 | 7.40 | 10.72 | 16.70 | 16.72 | 16.70 |
| Middle Channel | 5200 | 8.02 | 6.64 | 10.39 | 16.77 | 16.77 | 16.77 |
| High Channel | 5240 | 8.28 | 8.35 | 11.33 | 16.73 | 16.75 | 16.73 |

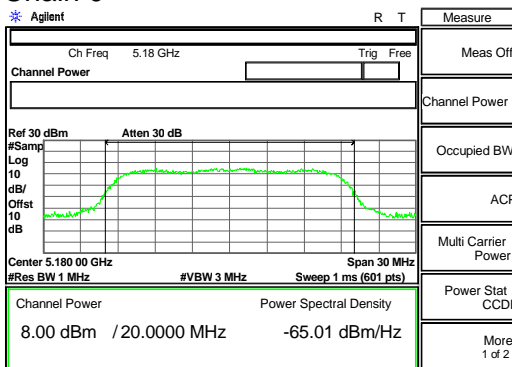
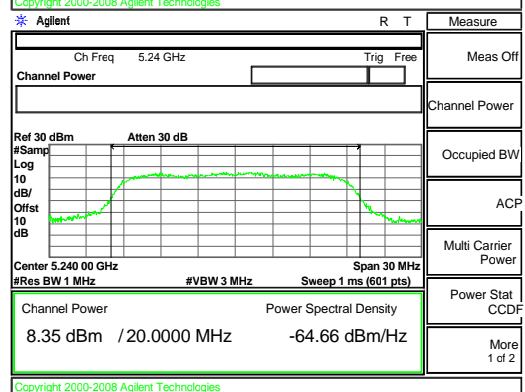
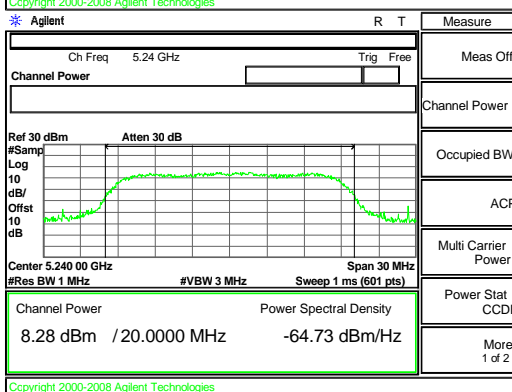
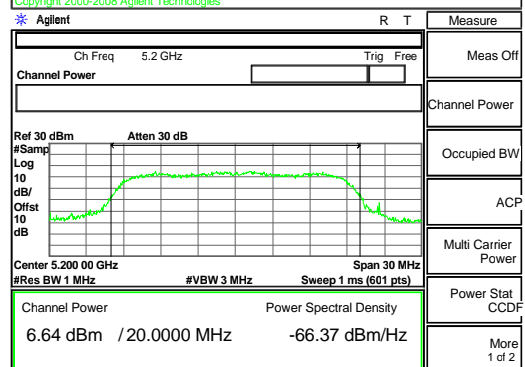
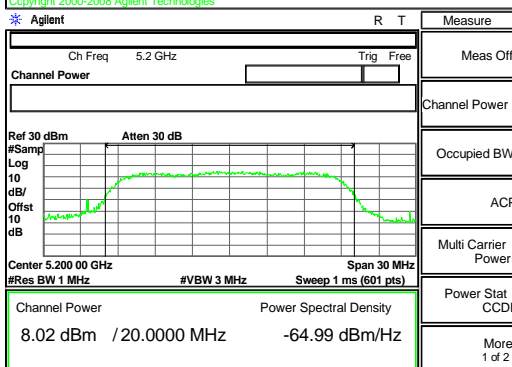
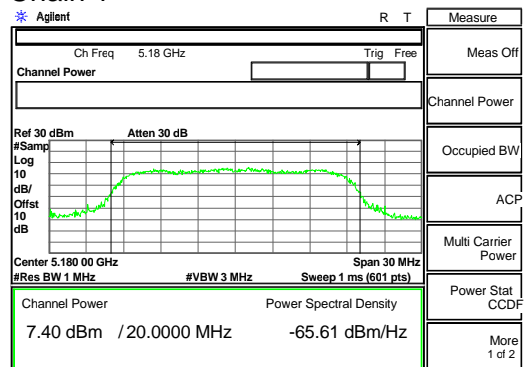
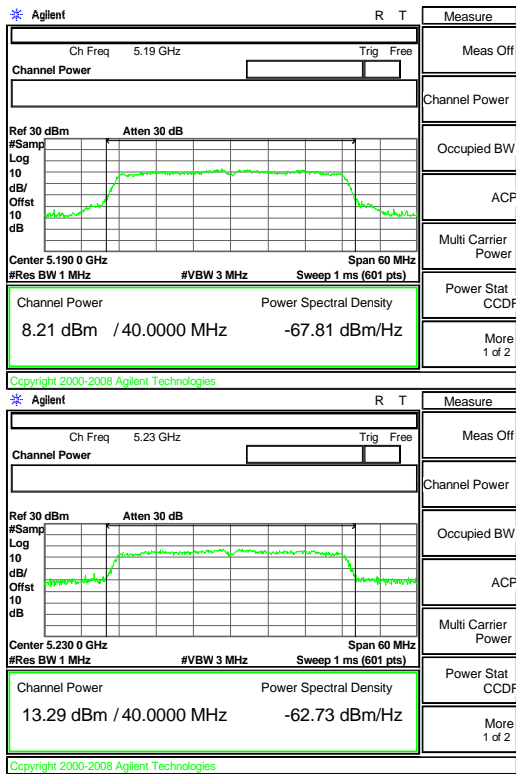
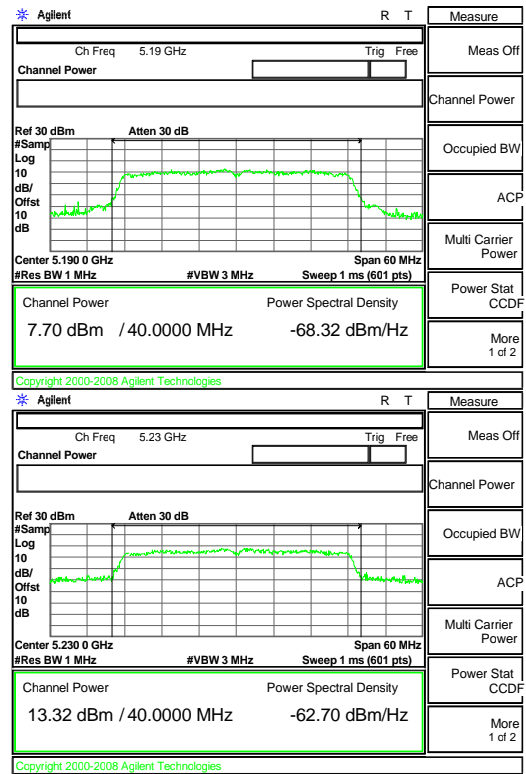
Chain 0

Chain 1


Table 44: Test result of Peak Output Power, 802.11an, HT40

| Channel | Channel Frequency (MHz) | Peak Output Power | | | Limit | | |
|--------------|-------------------------|-------------------|---------------|-------------------|---------------|---------------|-------------------|
| | | Chain 0 (dBm) | Chain 1 (dBm) | Total Power (dBm) | Chain 0 (dBm) | Chain 1 (dBm) | Total Power (dBm) |
| Low Channel | 5190 | 8.21 | 7.70 | 10.97 | 17 | 17 | 17 |
| High Channel | 5230 | 13.29 | 13.32 | 16.32 | 17 | 17 | 17 |

Chain 0

Chain 1


5.2.4 Power Spectral Density

RESULT:**Passed**

Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC part 15.407(a)(1)
Basic standard : ANSI C63.4: 2003
Limits : 4.0 dBm (in any 1MHz band)
Kind of test site : Shield room

Test Setup

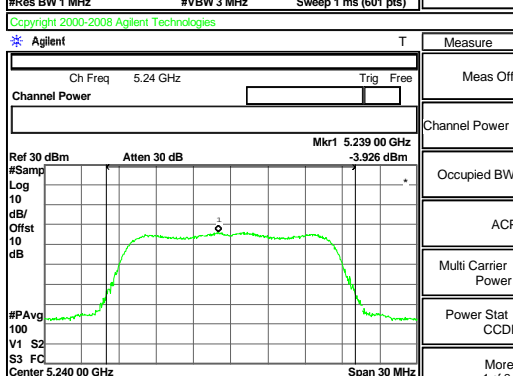
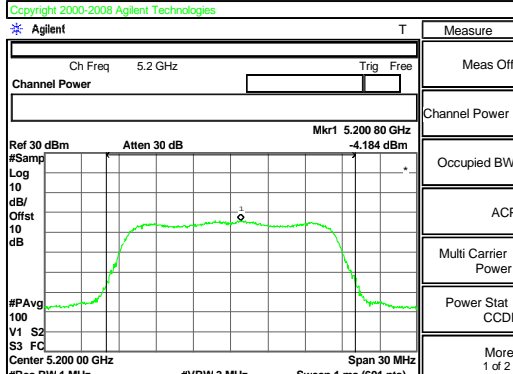
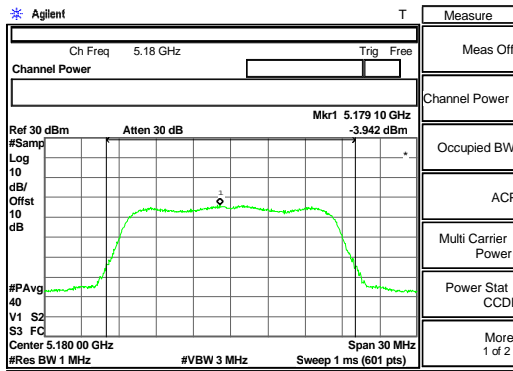
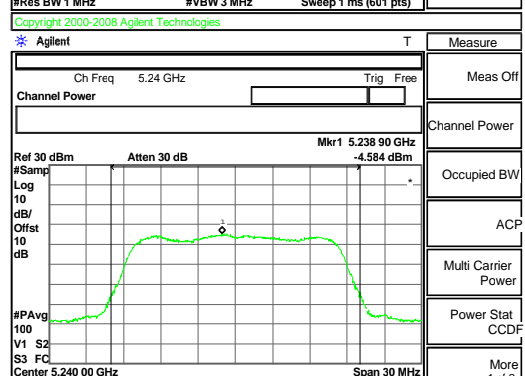
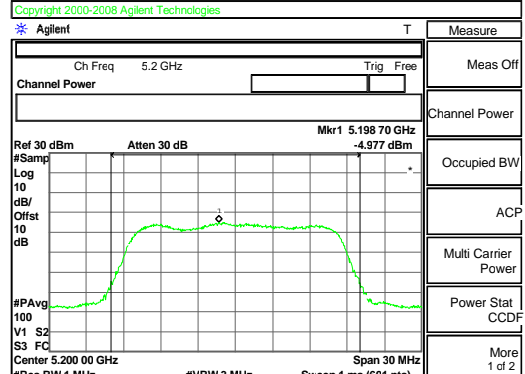
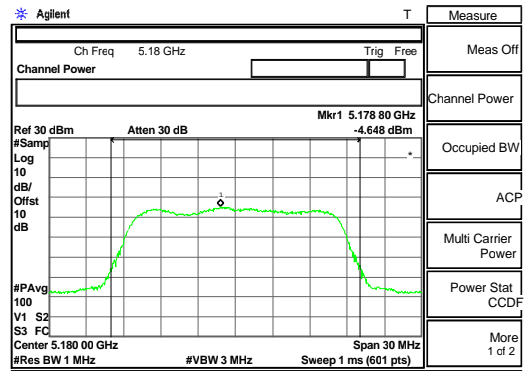
Test Channel : Low/ Middle/ High
Operation mode : A
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa

Remark:

1. If antenna gain \leq 6dBi, FCC Limit =4 dBm
2. If antenna gain > 6dBi, FCC Limit =4 dBm – (highest antenna gain – 6 dBi)

Table 45: Test result of Power Spectral Density, 802.11a

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) | | |
|--------------|-------------------------|------------------------------|---------|-------|-------------|---------|-------|
| | | Chain 0 | Chain 1 | Total | Chain 0 | Chain 1 | Total |
| Low Channel | 5180 | -3.94 | -4.65 | 1.16 | 4 | 4 | 2.72 |
| Mid Channel | 5200 | -4.18 | -4.98 | 0.83 | 4 | 4 | 2.72 |
| High Channel | 5240 | -3.93 | -4.58 | 0.27 | 4 | 4 | 2.72 |

Chain 0

Chain 1


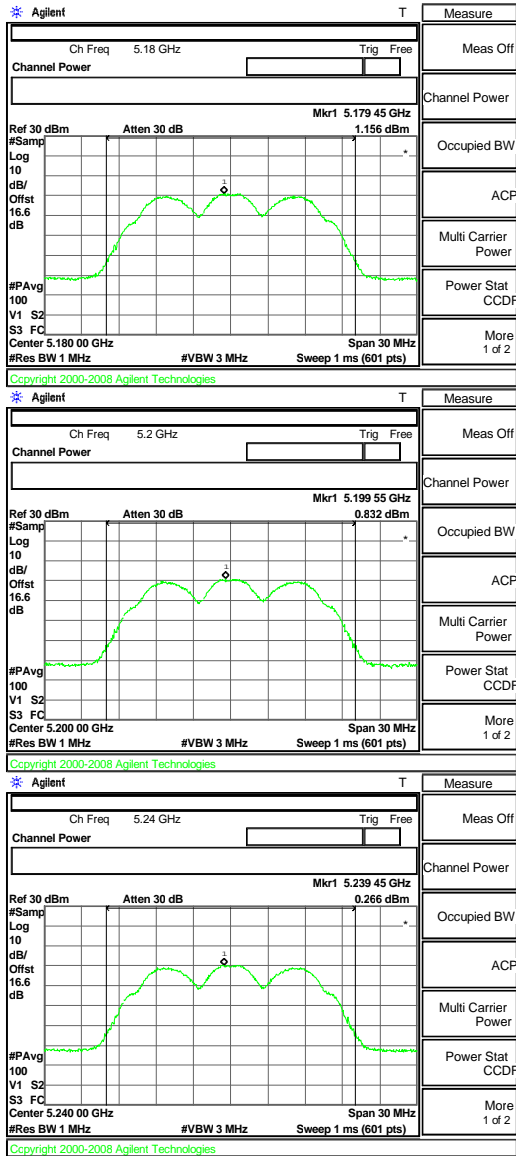
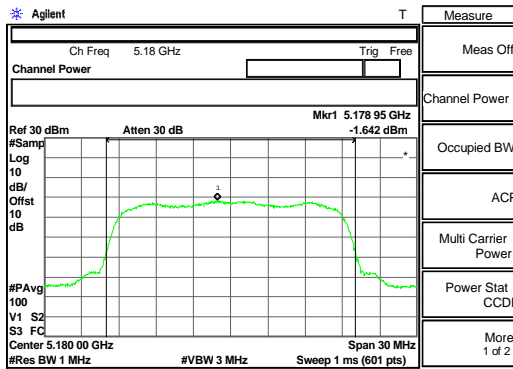
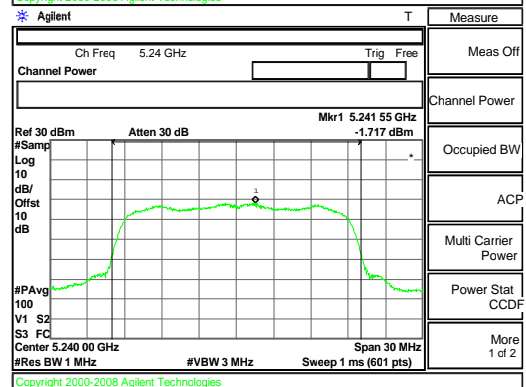
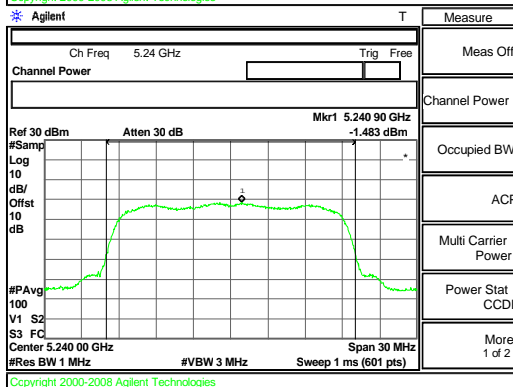
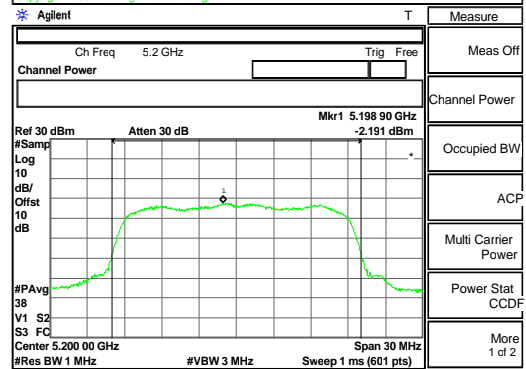
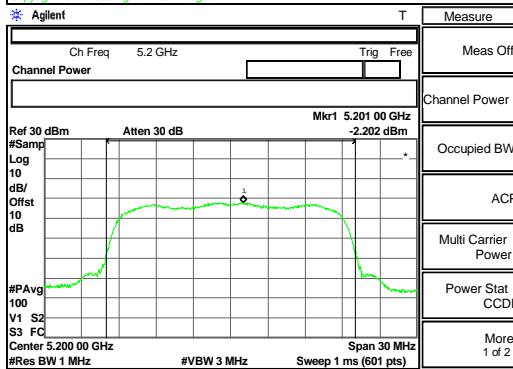
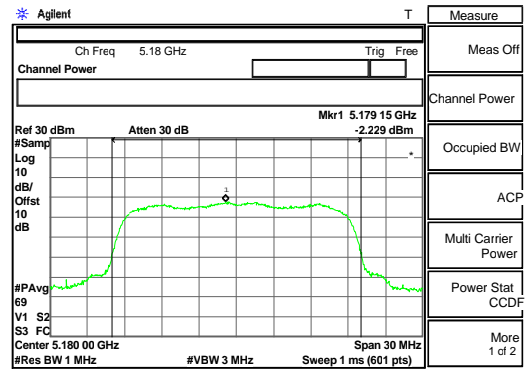
Chain 0+Chain 1


Table 46: Test result of Power Spectral Density, 802.11an, HT20

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) | | |
|--------------|-------------------------|------------------------------|---------|-------|-------------|---------|-------|
| | | Chain 0 | Chain 1 | Total | Chain 0 | Chain 1 | Total |
| Low Channel | 5180 | -1.64 | -2.23 | 1.97 | 4 | 4 | 4 |
| Mid Channel | 5200 | -2.20 | -2.19 | 1.71 | 4 | 4 | 4 |
| High Channel | 5240 | -1.48 | -1.72 | 1.40 | 4 | 4 | 4 |

Chain 0

Chain 1


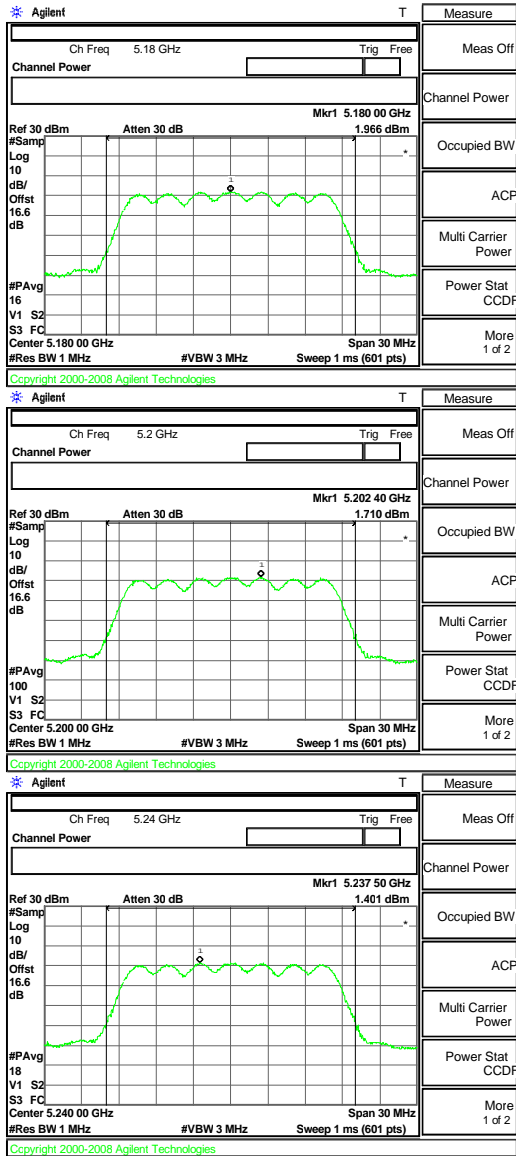
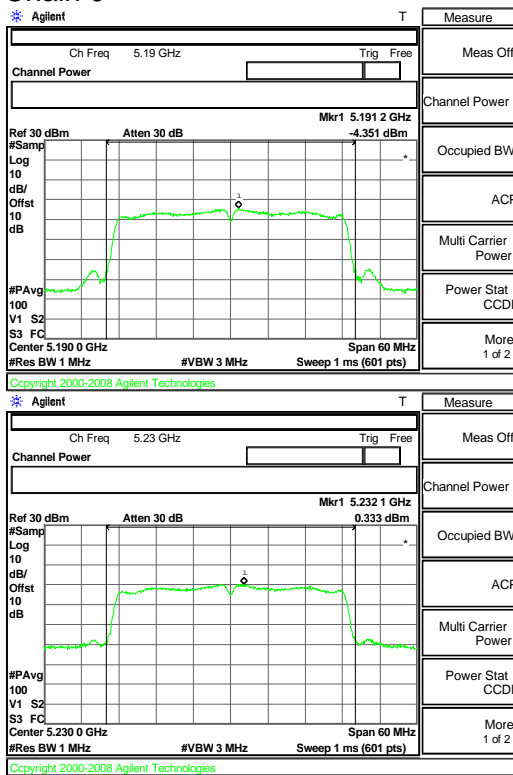
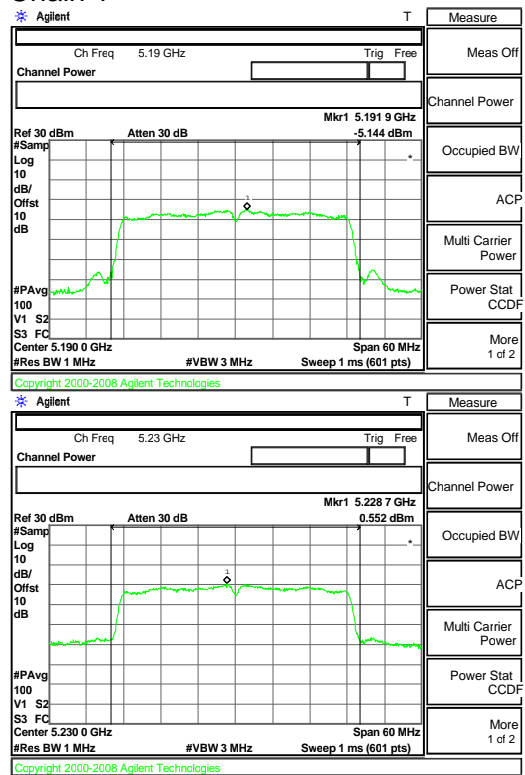
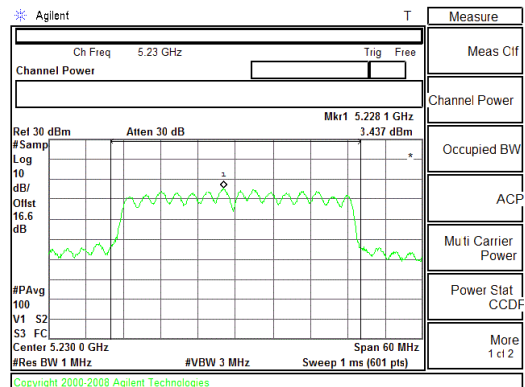
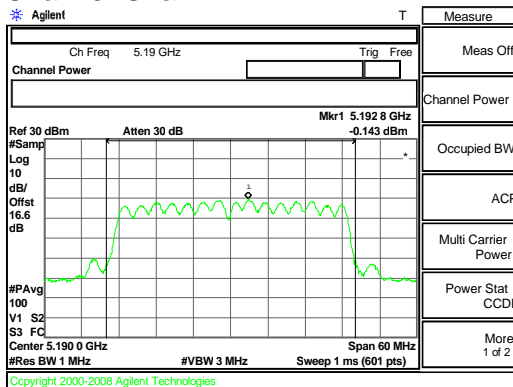
Chain 0+Chain 1


Table 47: Test result of Power Spectral Density, 802.11an, HT40

| Channel | Channel Frequency (MHz) | Power Spectral Density (dBm) | | | Limit (dBm) | | |
|--------------|-------------------------|------------------------------|---------|-------|-------------|---------|-------|
| | | Chain 0 | Chain 1 | Total | Chain 0 | Chain 1 | Total |
| Low Channel | 5190 | -4.35 | -5.14 | -0.14 | 4 | 4 | 4 |
| High Channel | 5230 | 0.33 | 0.55 | 3.44 | 4 | 4 | 4 |

Chain 0

Chain 1

Chain 0+Chain 1


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5.2.5 Peak Power Excursion

RESULT:**Passed**

Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC Part 15.407(a)(6)
Basic standard : ANSI C63.4: 2003
Limits : 13dB
Kind of test site : Shield room

Test Setup

Test Channel : Low/ Middle/ High
Operation mode : A
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa

Table 48: Test result of Power Spectral Density, 802.11a

| Channel | Channel Frequency (MHz) | Peak Power Excursion (dB) | | Limit (dB) | |
|--------------|-------------------------|---------------------------|---------|------------|---------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 |
| Low Channel | 5180 | 6.267 | 5.858 | 13 | 13 |
| Mid Channel | 5200 | 7.254 | 7.779 | 13 | 13 |
| High Channel | 5240 | 7.277 | 7.049 | 13 | 13 |

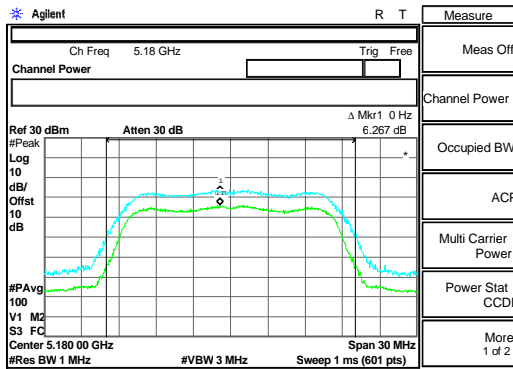
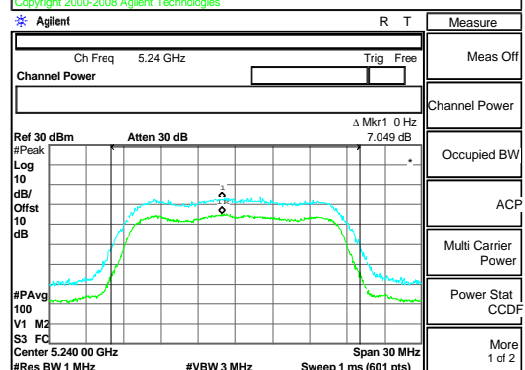
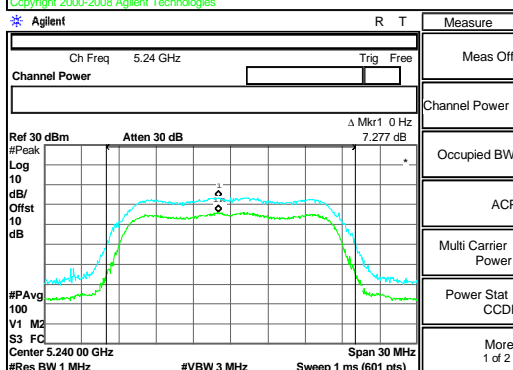
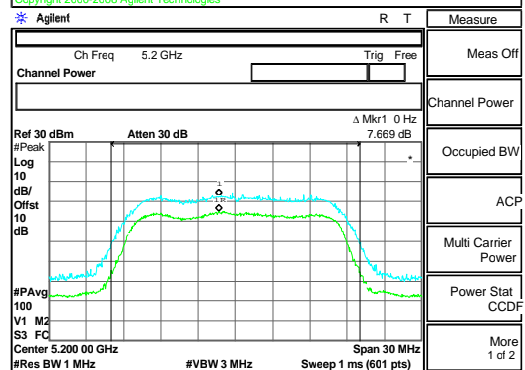
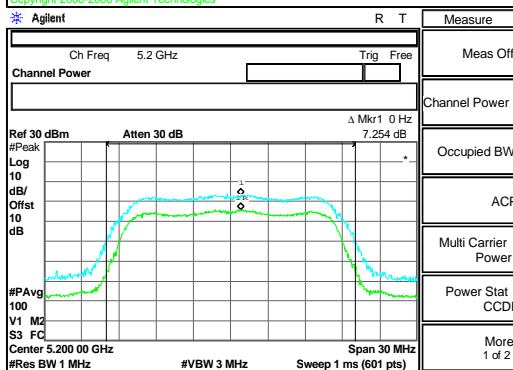
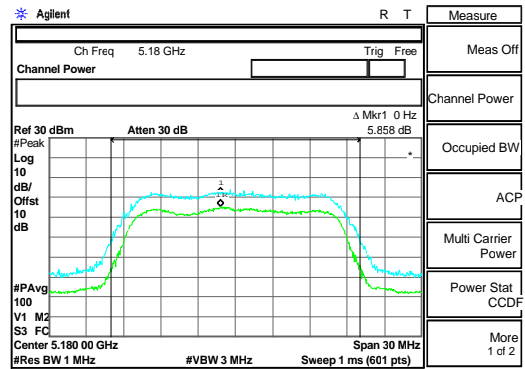
Chain 0

Chain 1


Table 49: Test result of Power Spectral Density, 802.11an, HT20

| Channel | Channel Frequency (MHz) | Peak Power Excursion (dB) | | Limit (dB) | |
|--------------|-------------------------|---------------------------|---------|------------|---------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 |
| Low Channel | 5180 | 7.204 | 6.956 | 13 | 13 |
| Mid Channel | 5200 | 7.489 | 7.347 | 13 | 13 |
| High Channel | 5240 | 7.104 | 6.708 | 13 | 13 |

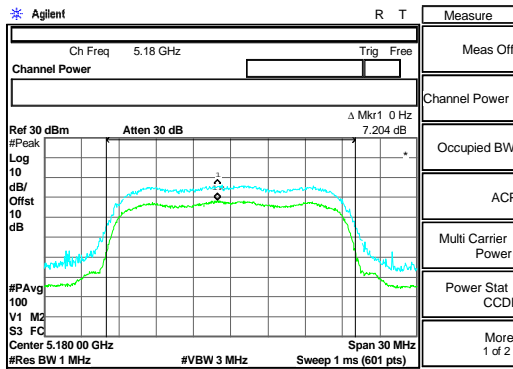
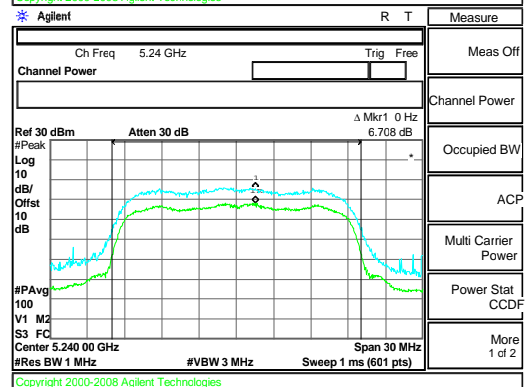
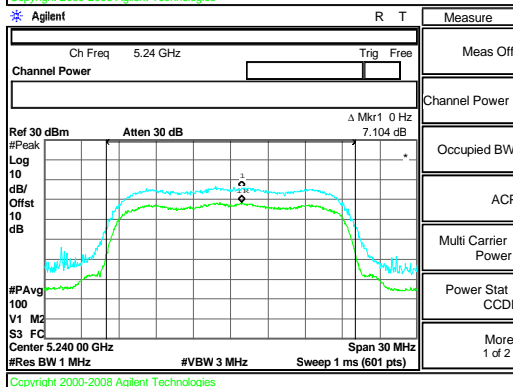
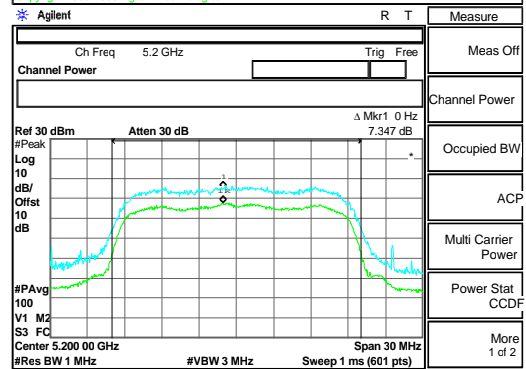
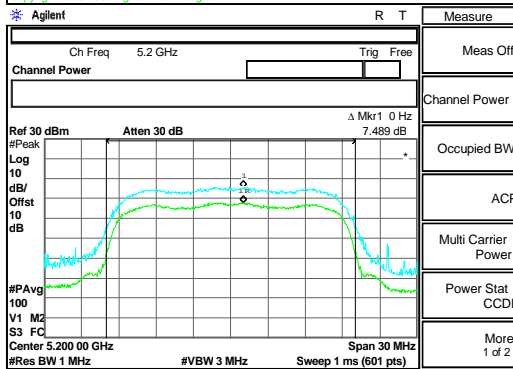
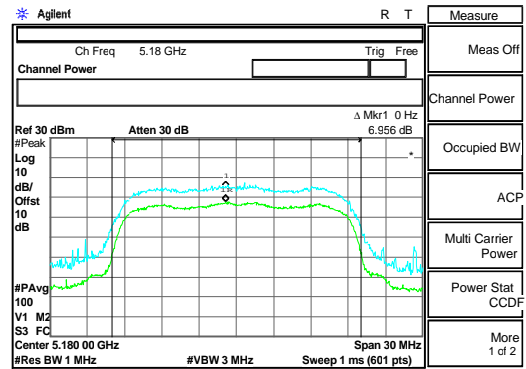
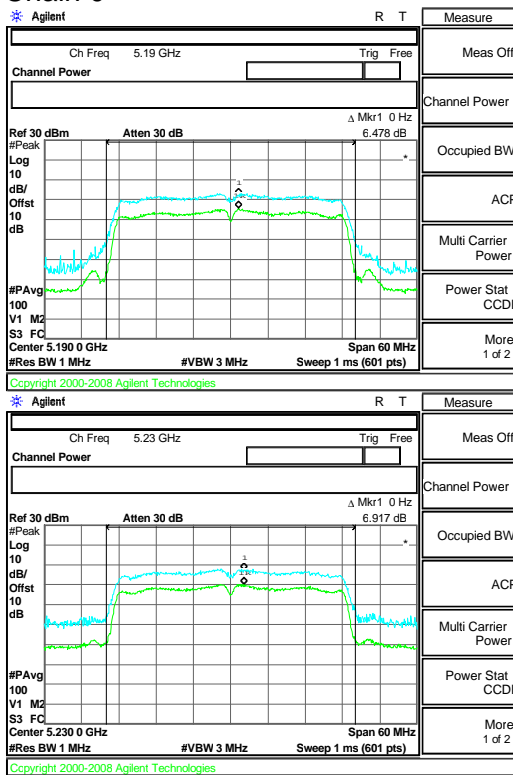
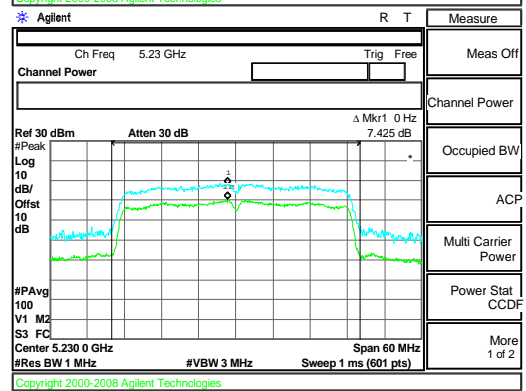
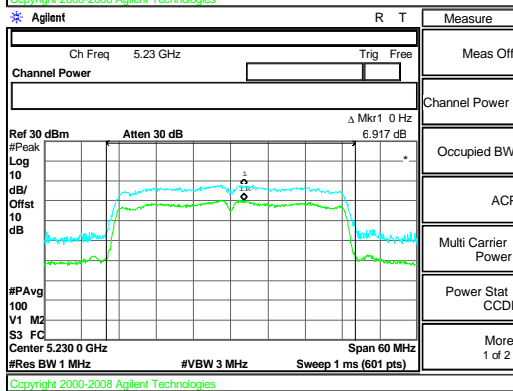
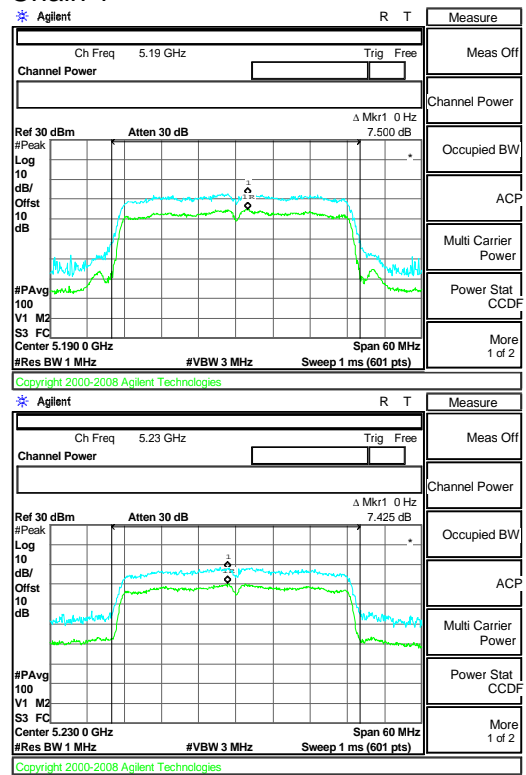
Chain 0

Chain 1


Table 50: Test result of Power Spectral Density, 802.11an, HT40

| Channel | Channel Frequency (MHz) | Peak Power Excursion (dB) | | Limit (dB) | |
|--------------|-------------------------|---------------------------|---------|------------|---------|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 |
| Low Channel | 5190 | 6.478 | 7.500 | 13 | 13 |
| High Channel | 5230 | 6.917 | 7.425 | 13 | 13 |

Chain 0

Chain 1


5.2.6 RF Conducted Spurious Emissions

RESULT:**Passed**

Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC part 15.407(b)(1)
Basic standard : ANSI C63.4: 2003
Limit : all emissions outside of the 5.15-5.35GHz band
shall not exceed an EIRP of -27dBm/MHz
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa

Remark:

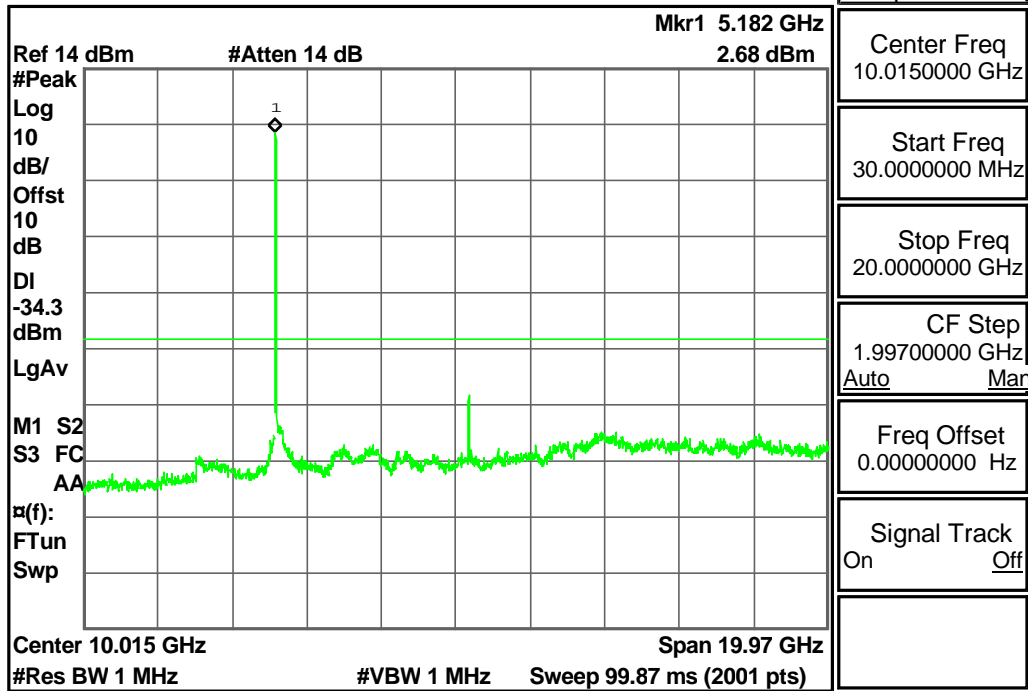
Set limit line according to calculation of the limit and antenna gain as below:
Value of limit line = E.I.R.P. Limit - Antenna Gain

Refer to following pages for details.

802.11a, Chain 0, low channel

 Agilent

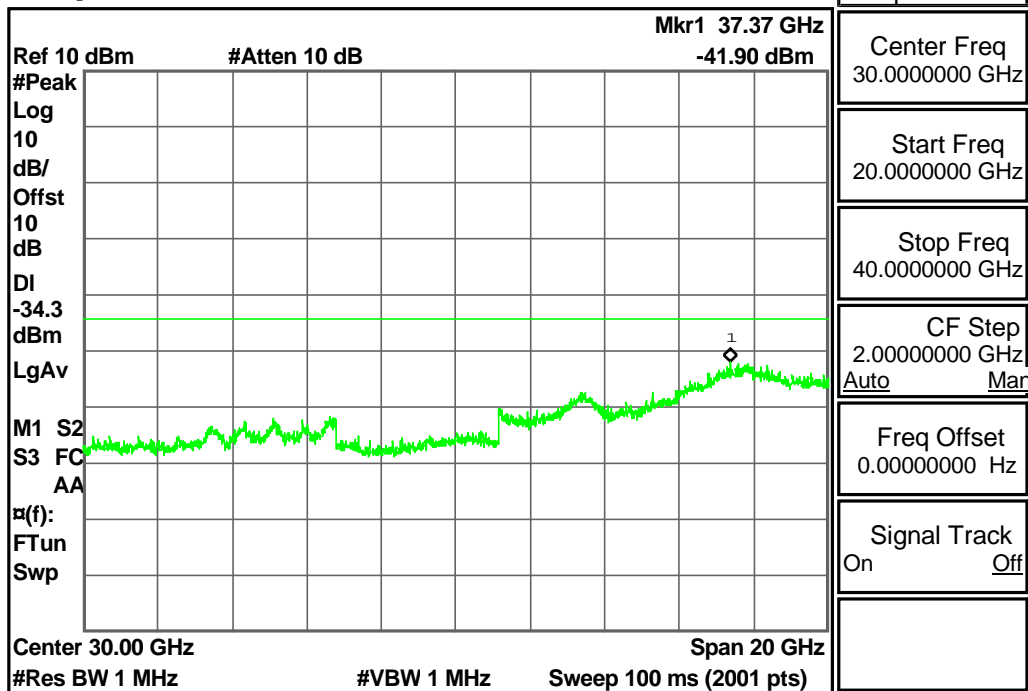
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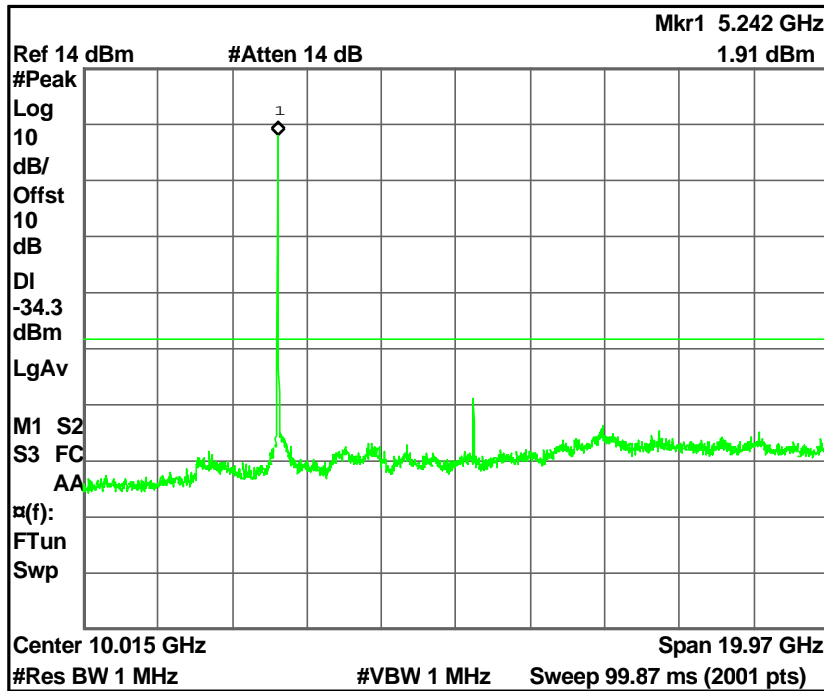


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802.11a, Chain 0, high channel

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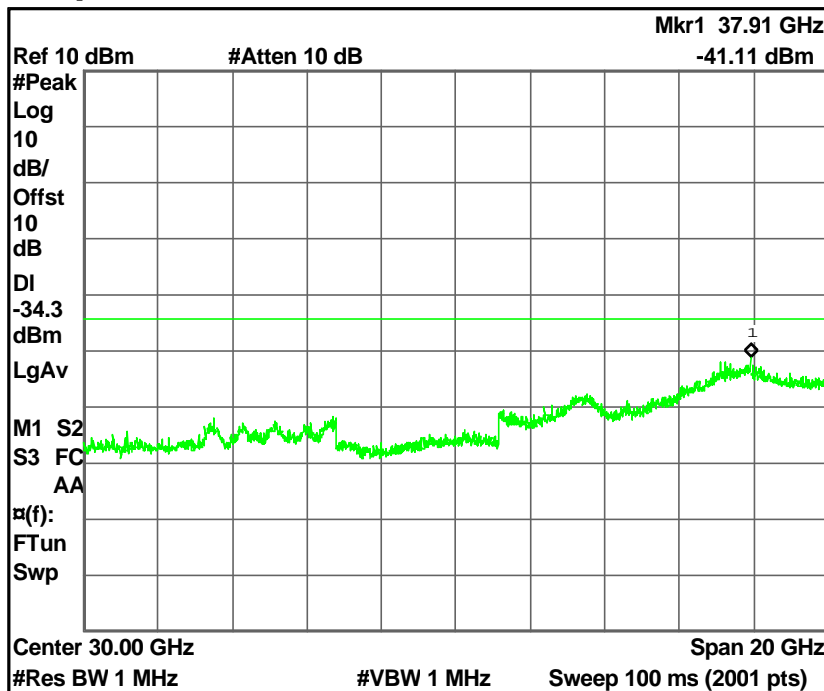


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| Start Freq 30.0000000 MHz |
| Stop Freq 20.0000000 GHz |
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| Freq Offset 0.00000000 Hz |
| Signal Track On Off |

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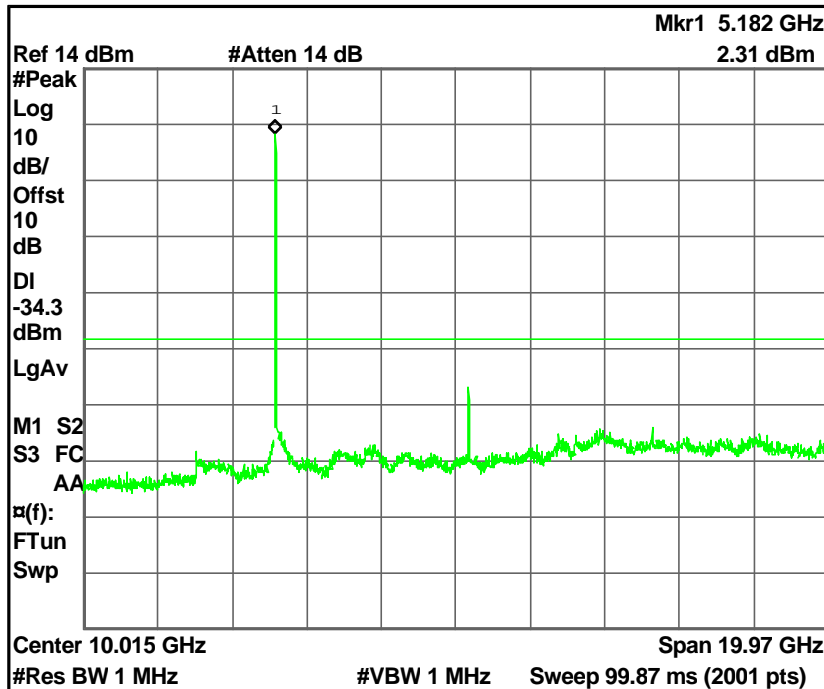
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| Signal Track On Off |

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802.11a, Chain 1, low channel

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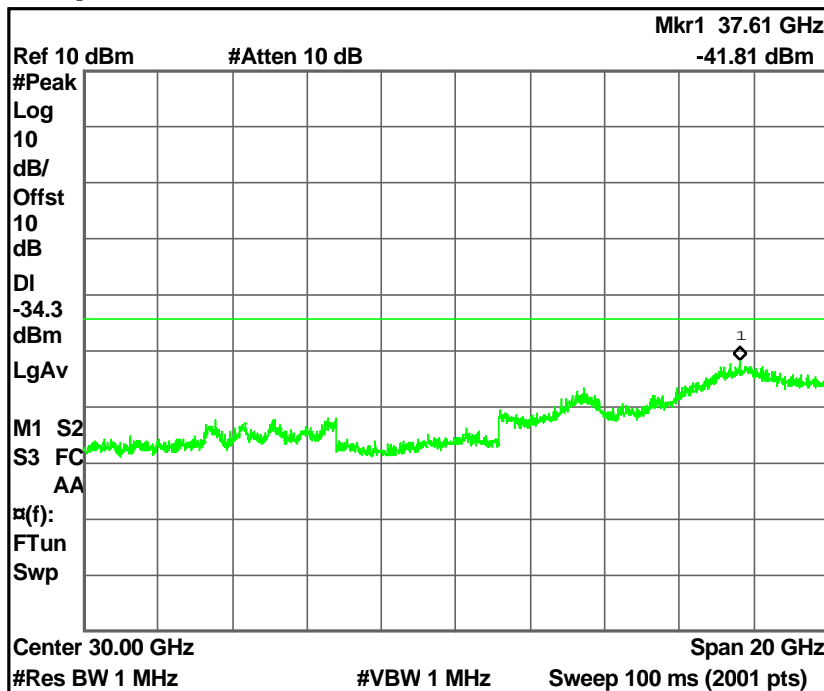


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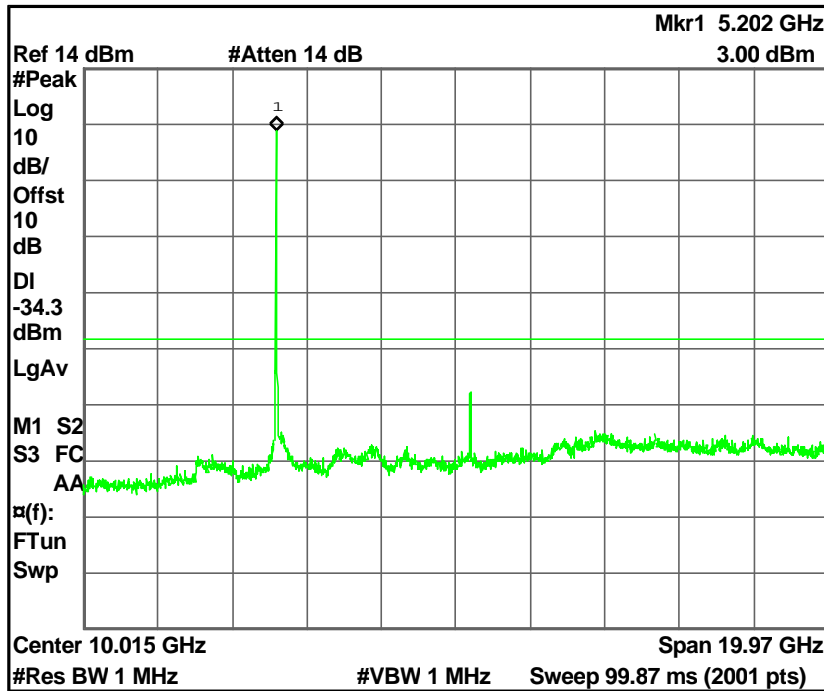
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| Signal Track On Off |

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802.11a, Chain 1, middle channel

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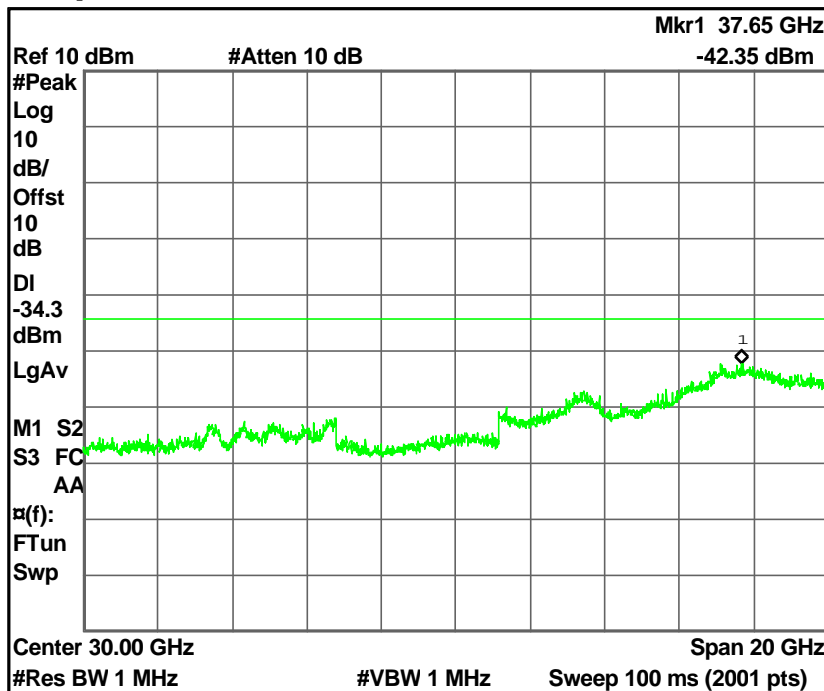


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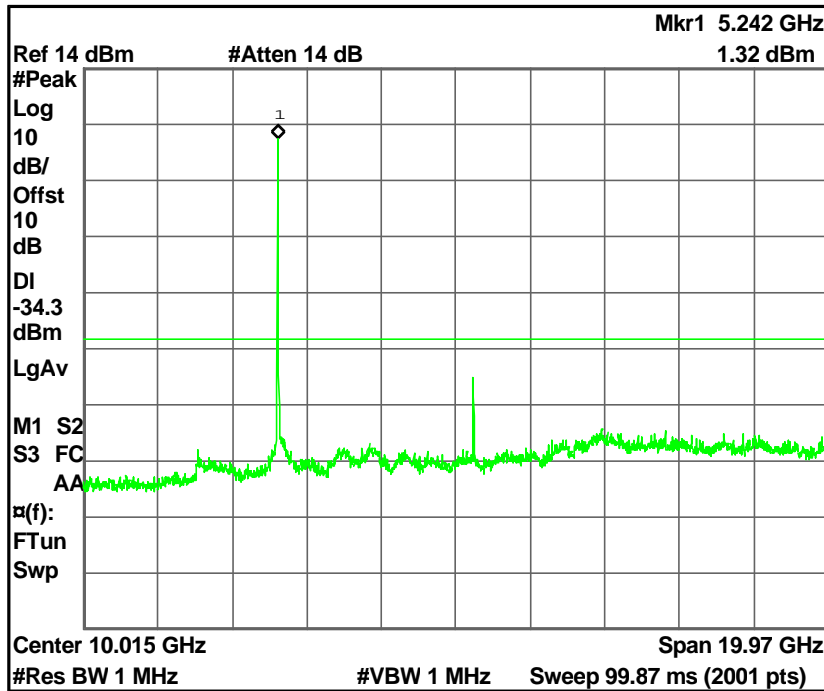
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802.11a, Chain 1, high channel

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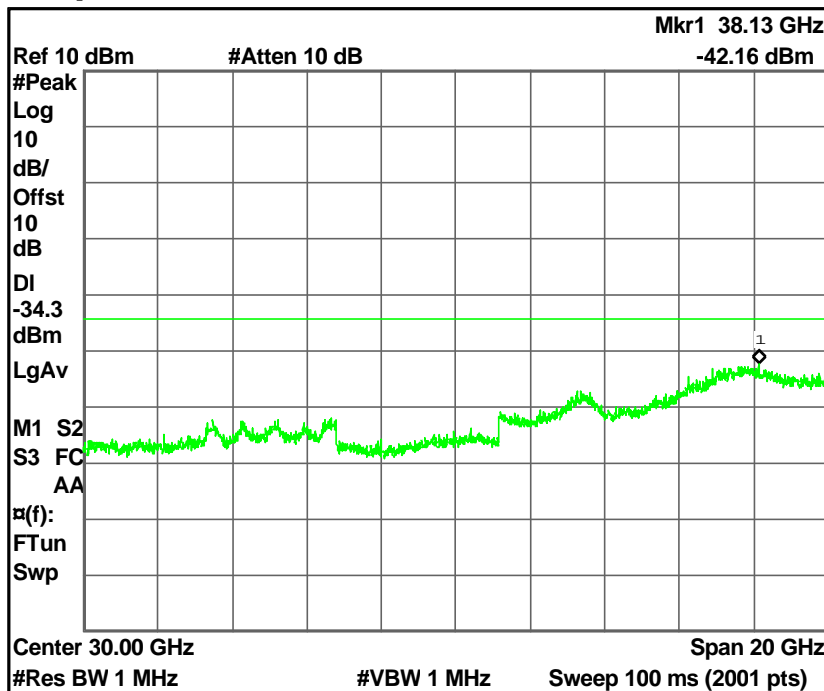


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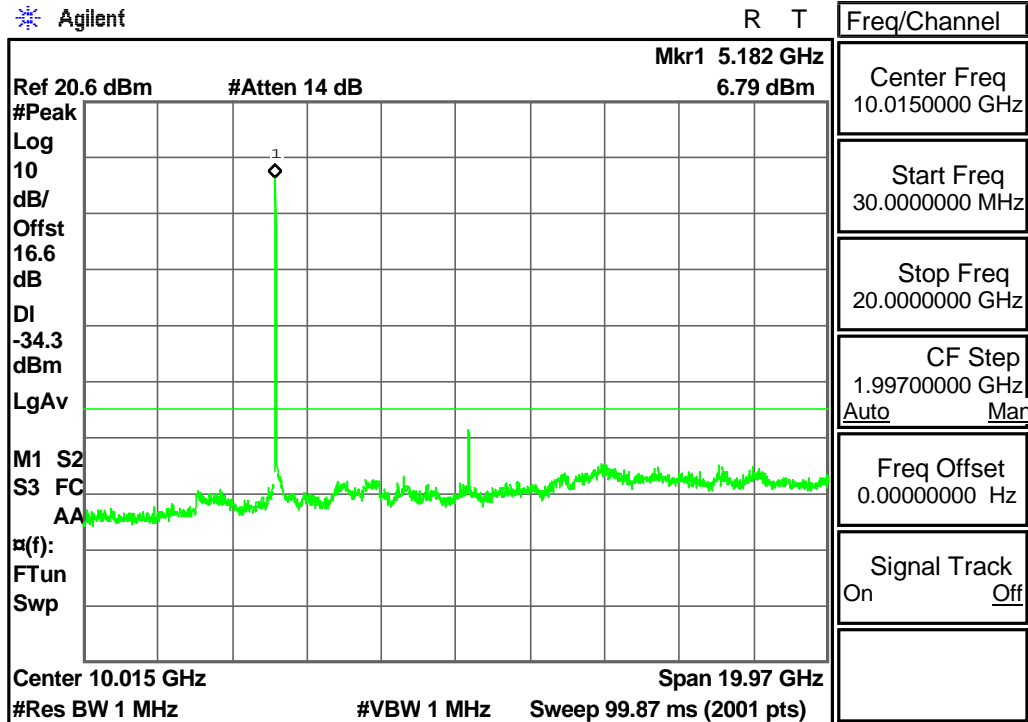
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| Signal Track On Off |

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802.11a, Chain 0+Chain 1, low channel

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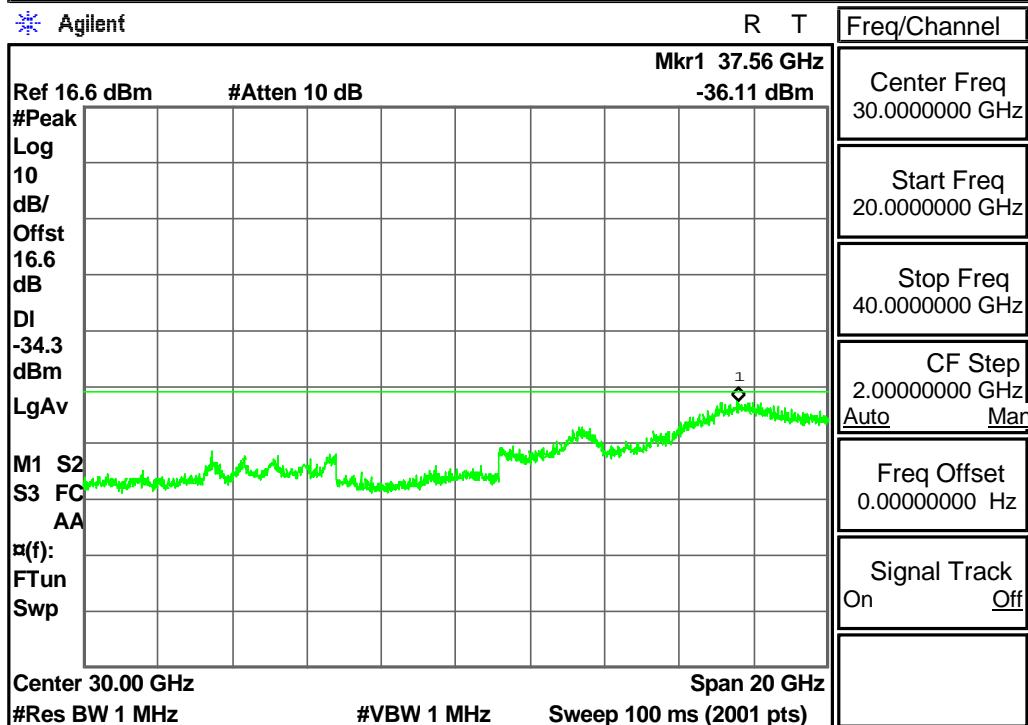
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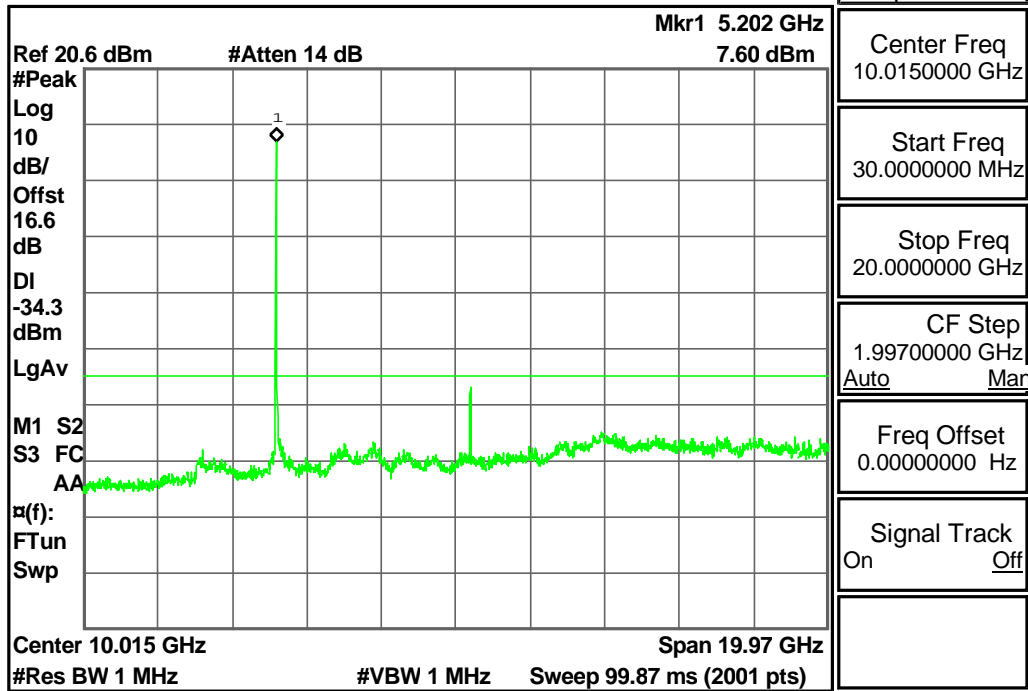


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802.11a, Chain 0+Chain 1, middle channel

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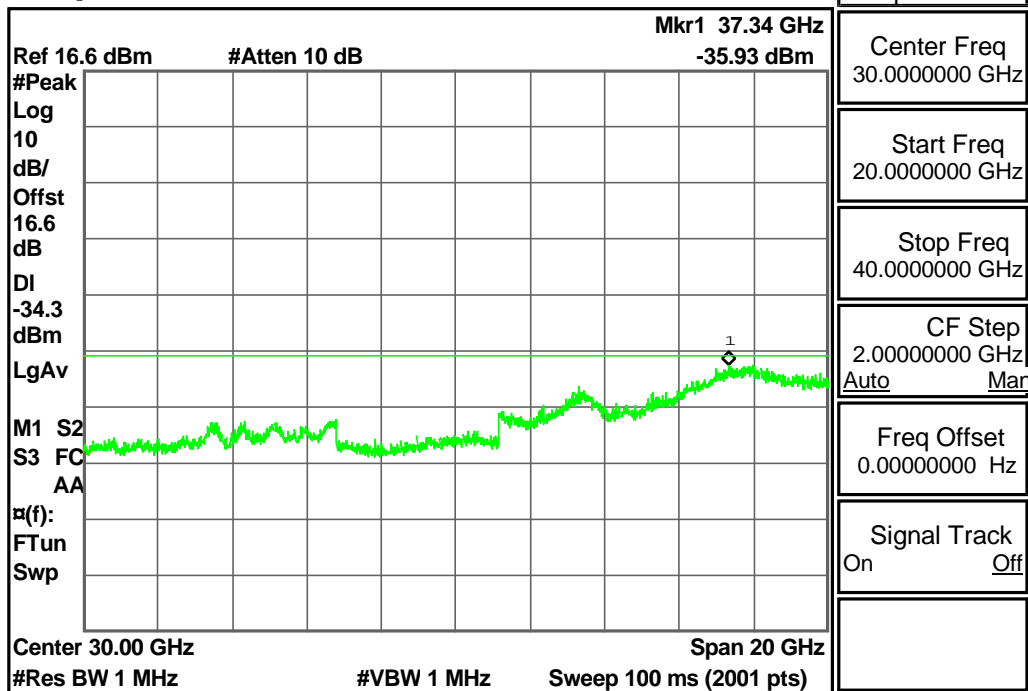
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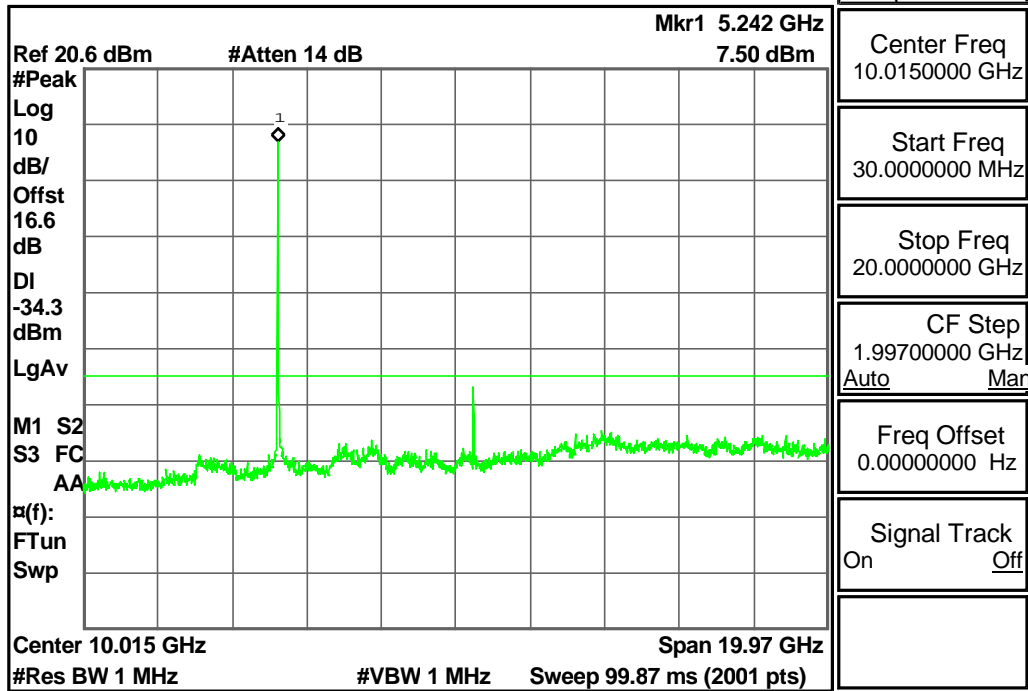


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802.11a, Chain 0+Chain 1, high channel

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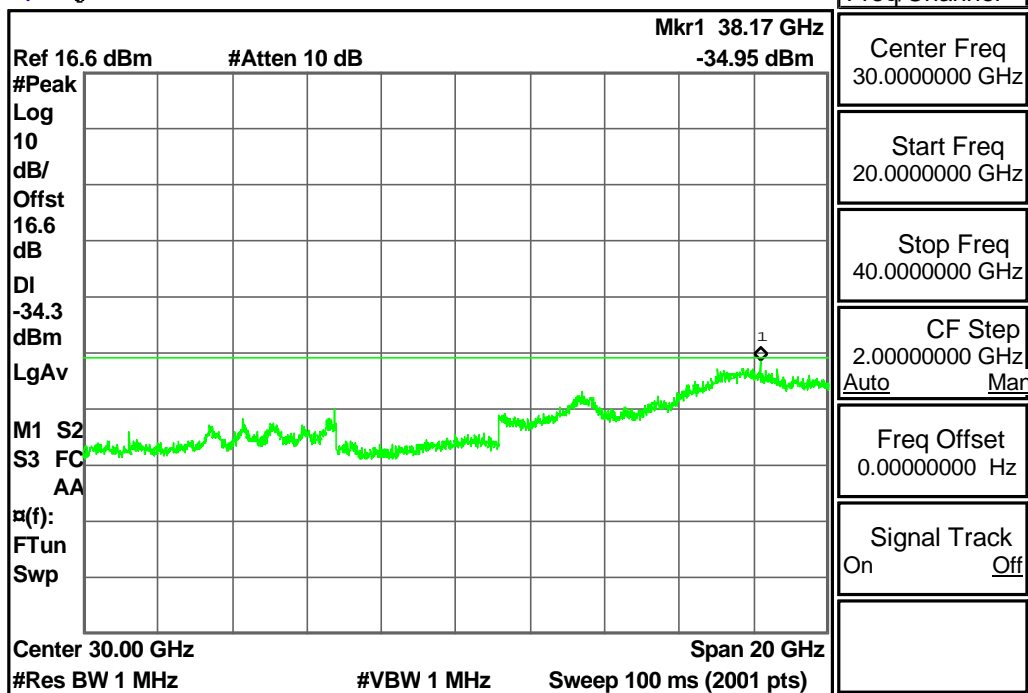
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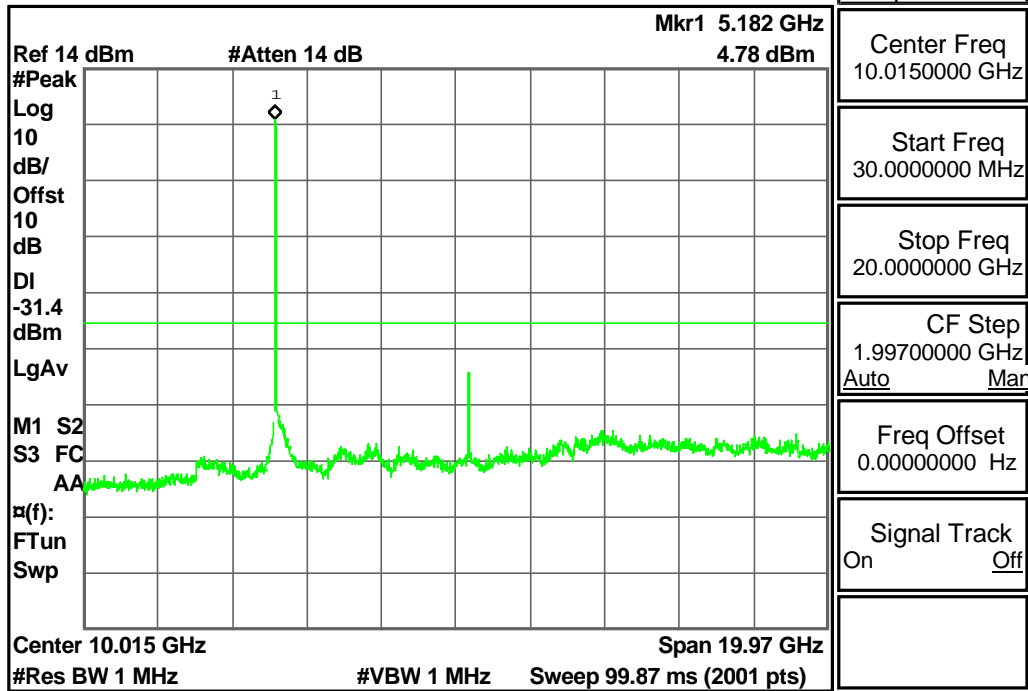


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802.11an, HT20, Chain 0, low channel

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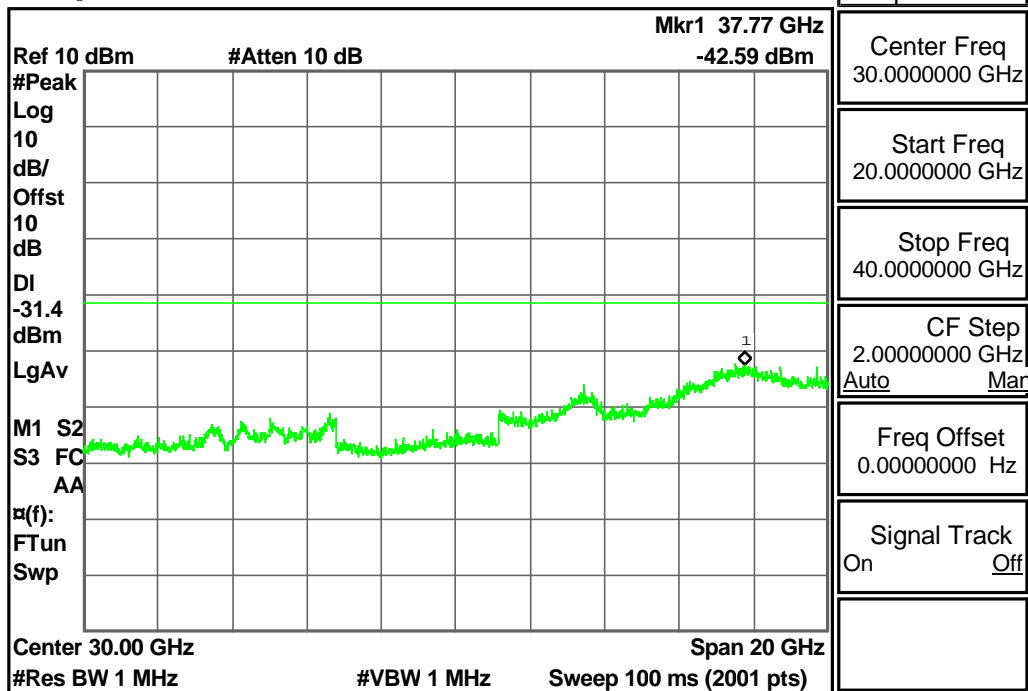
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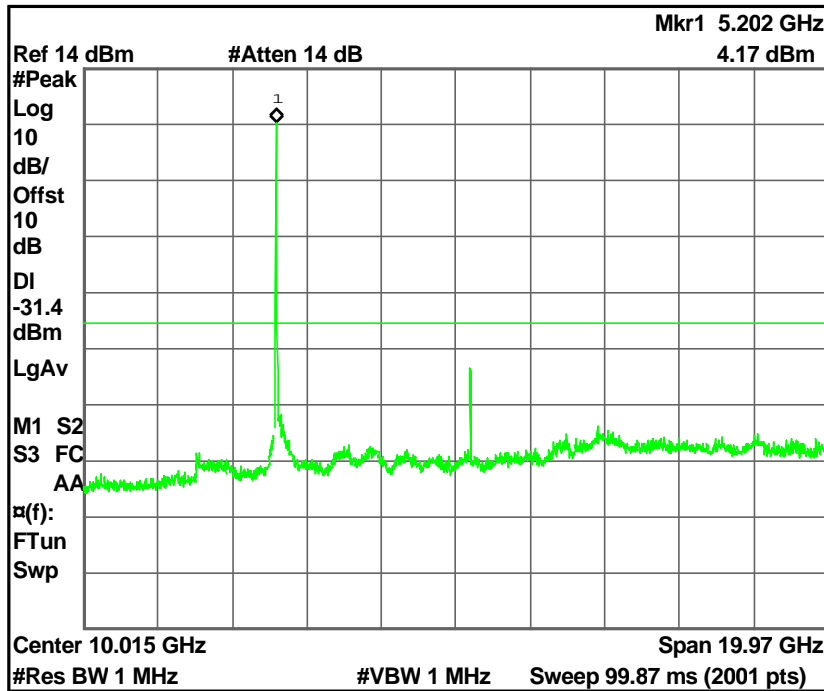


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802.11an, HT20, Chain 0, middle channel

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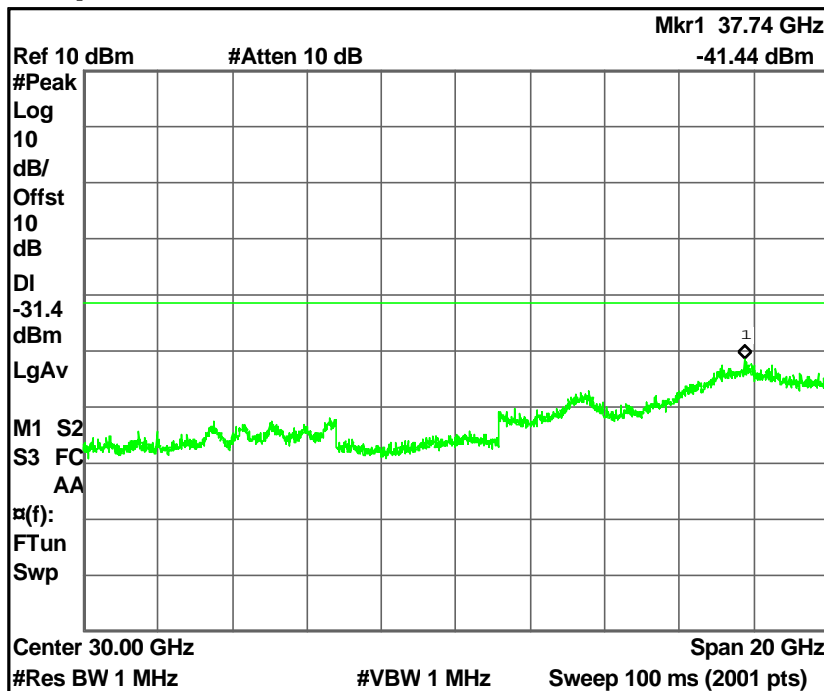


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|---------------------------------------|
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| CF Step 1.99700000 GHz Auto Man |
| Freq Offset 0.00000000 Hz |
| Signal Track On Off |

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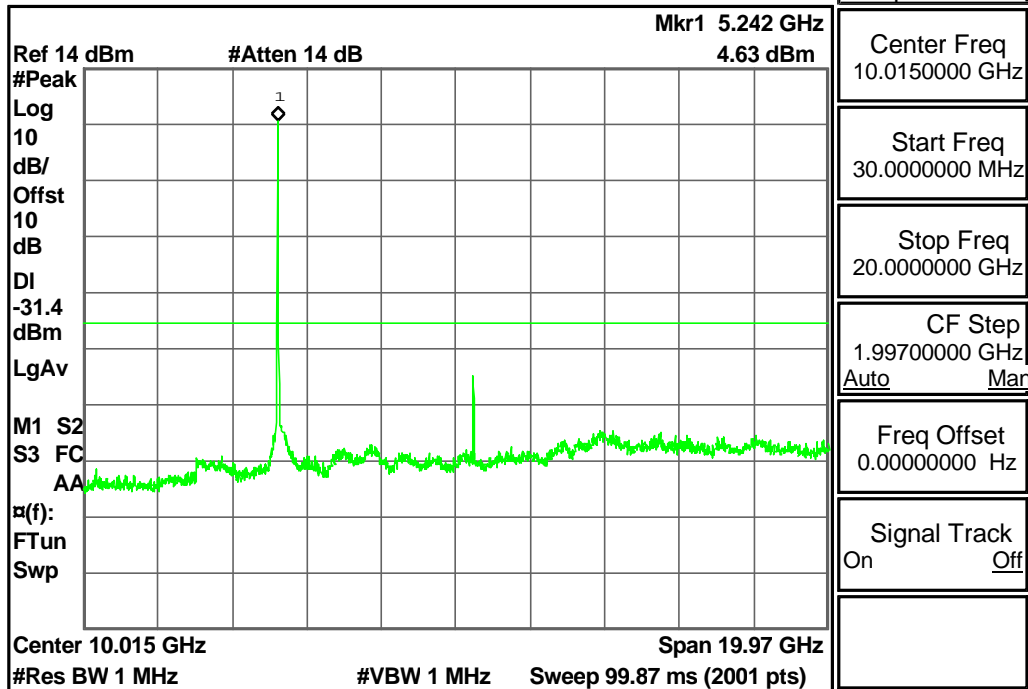
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802.11an, HT20, Chain 0, high channel

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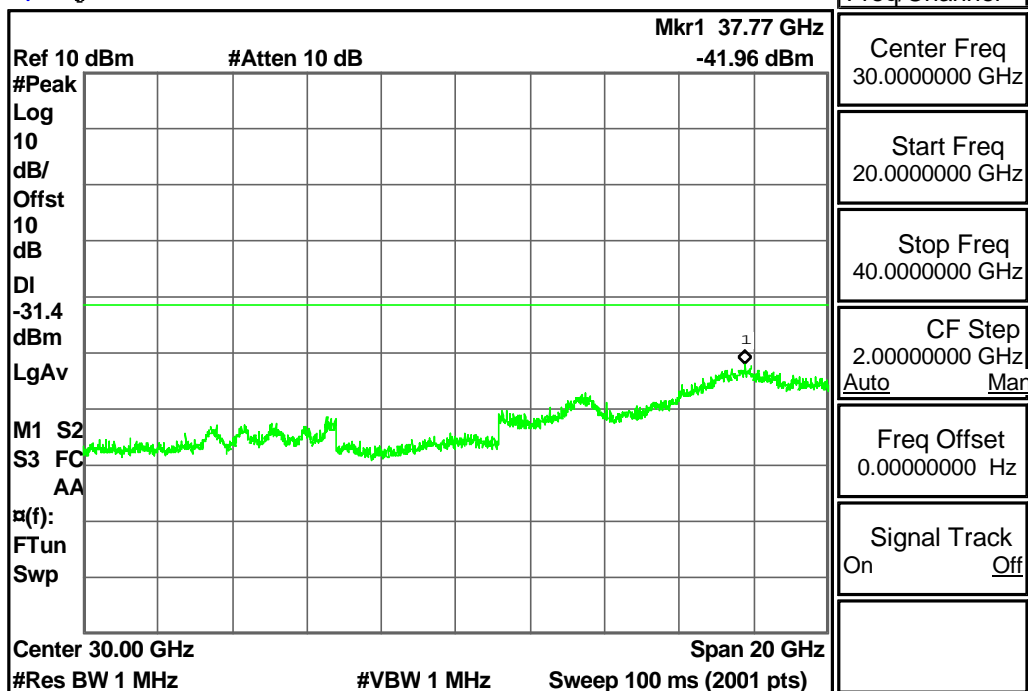
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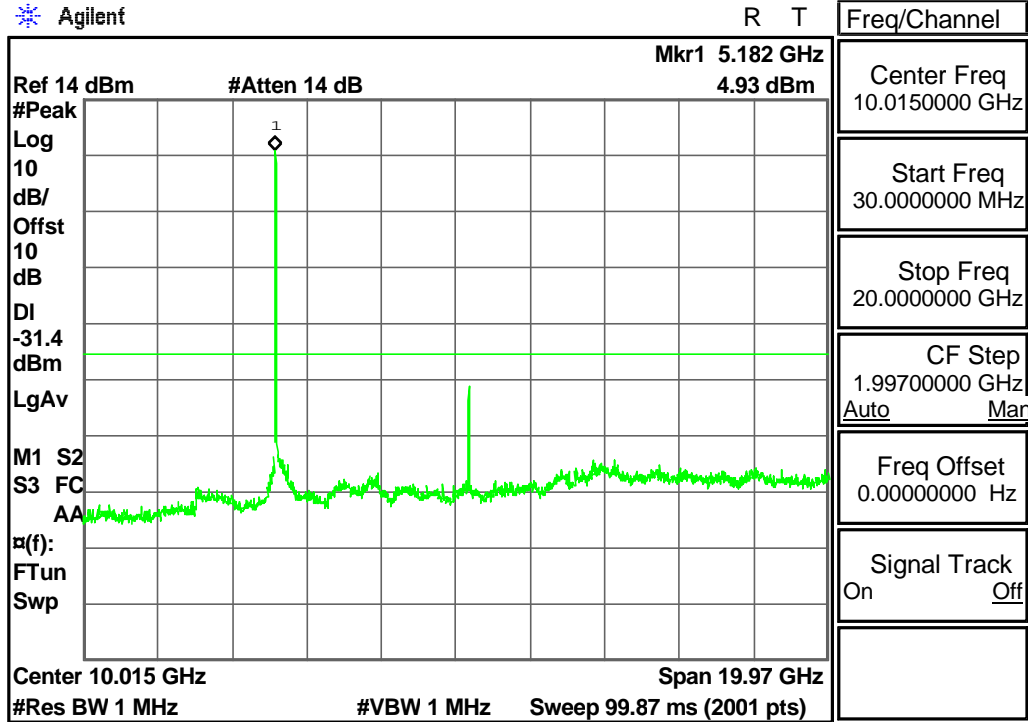


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802.11an, HT20, Chain 1, low channel

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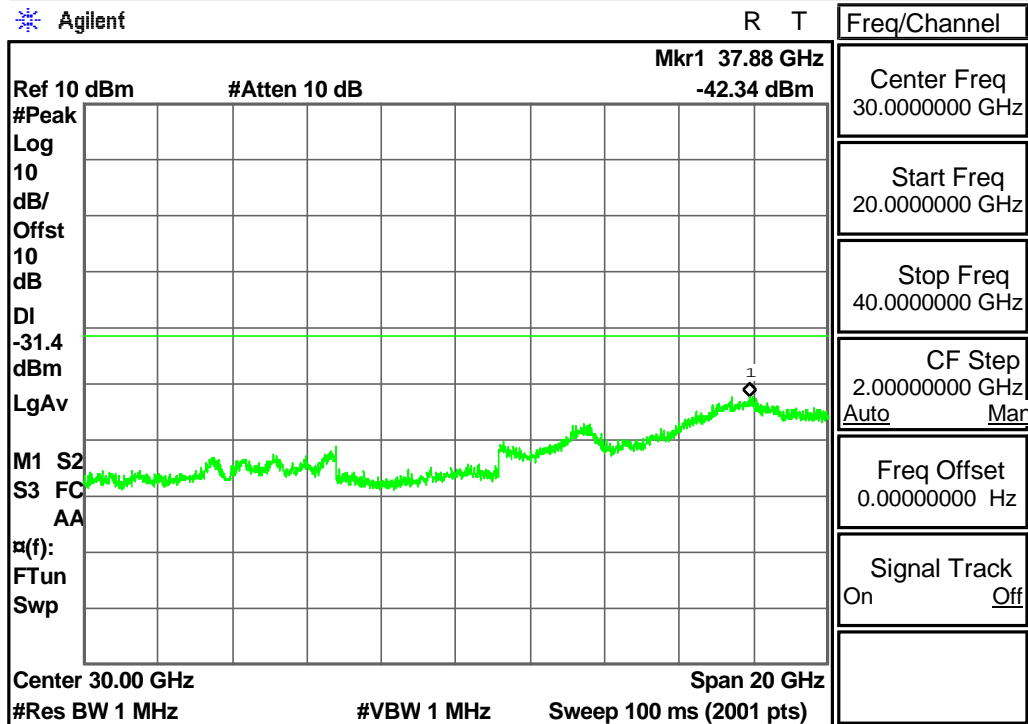
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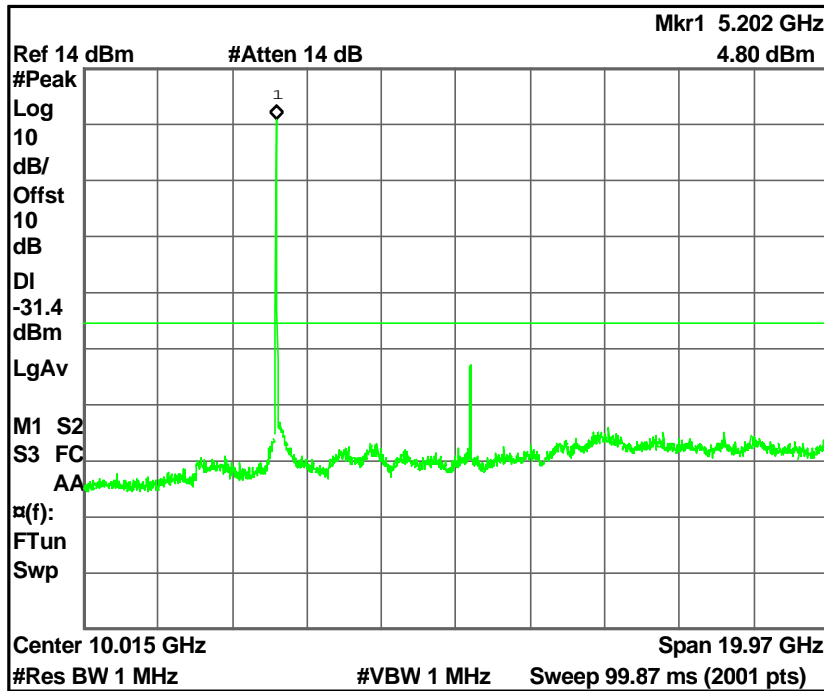


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802.11an, HT20, Chain 1, middle channel

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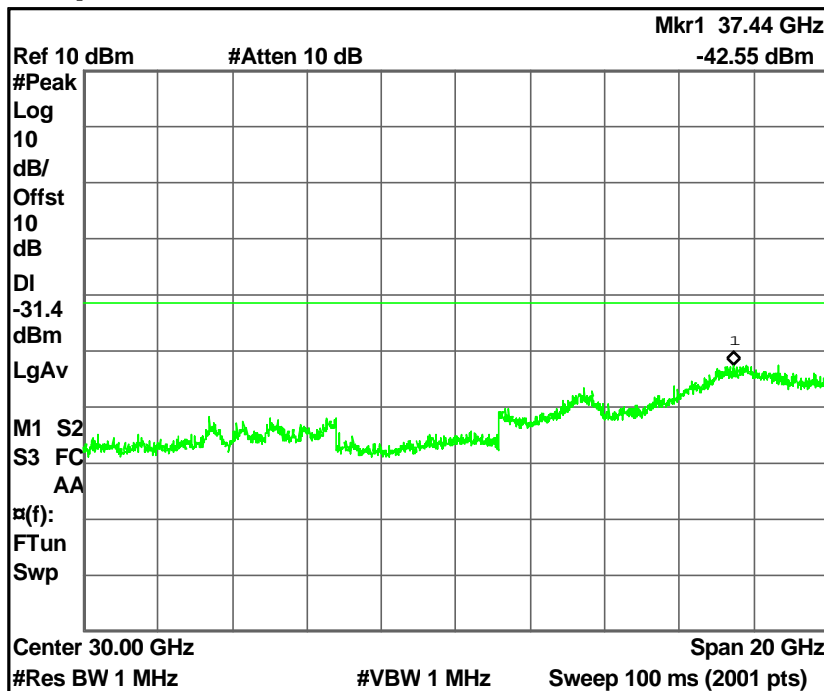


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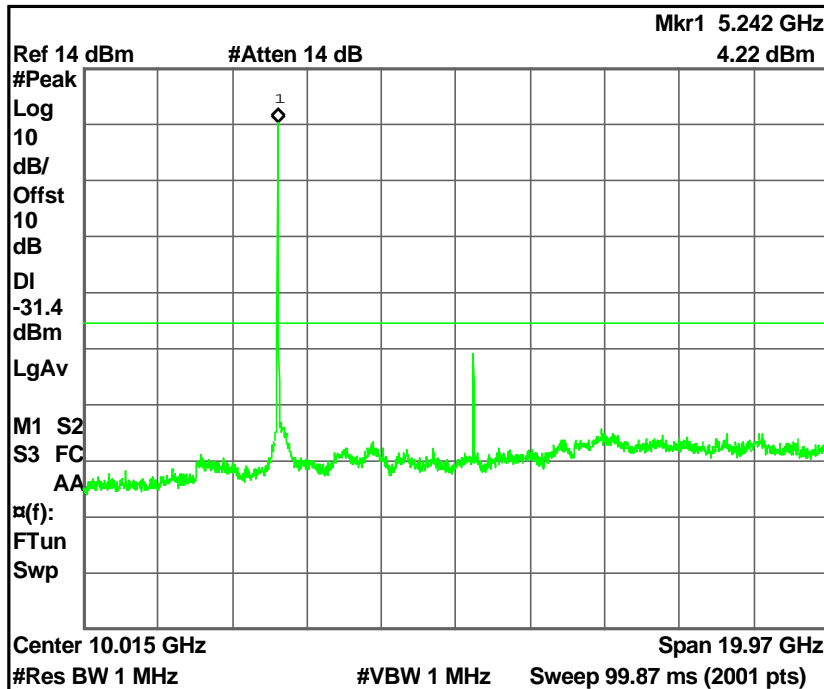
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802.11an, HT20, Chain 1, high channel

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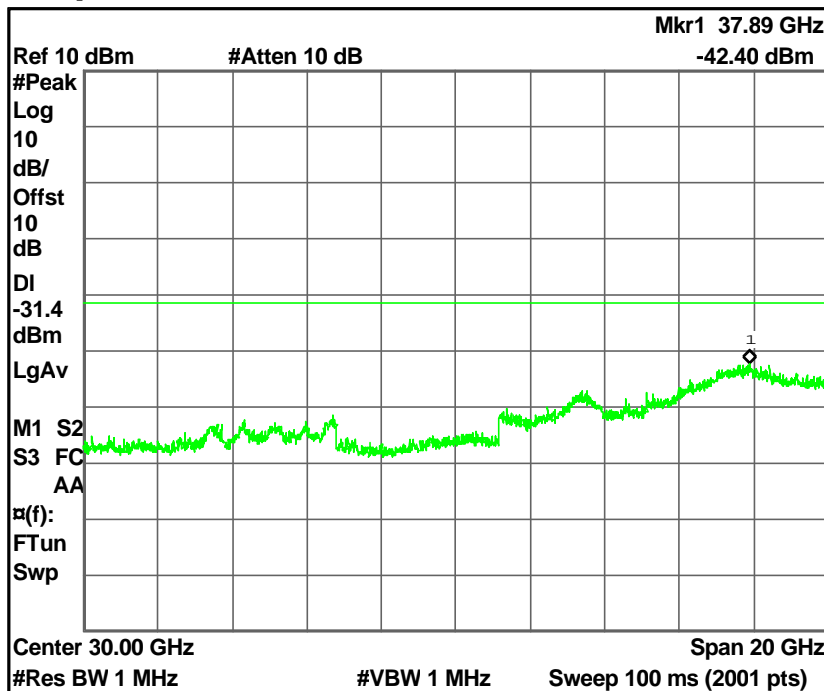


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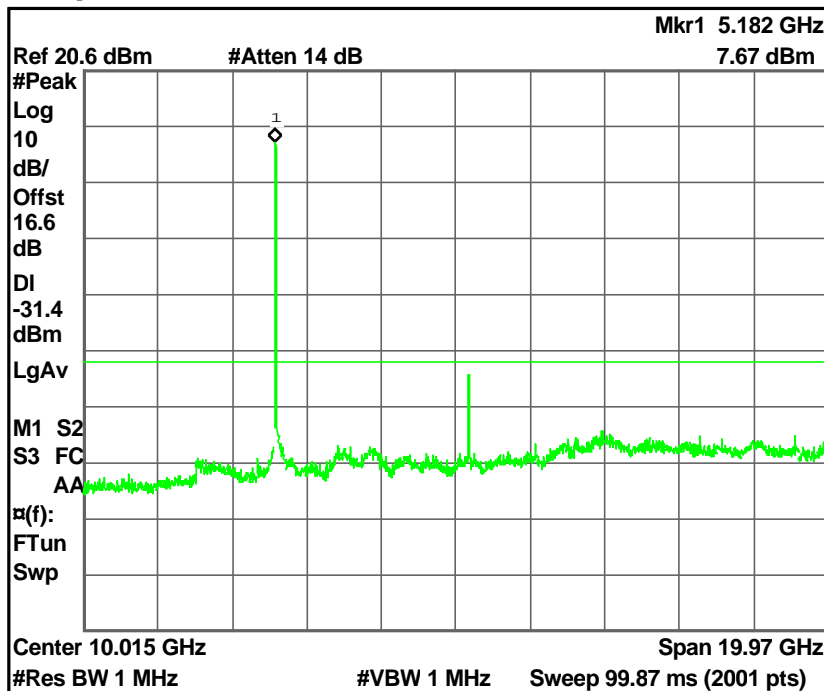
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802.11an, HT20, Chain 0+Chain 1, low channel

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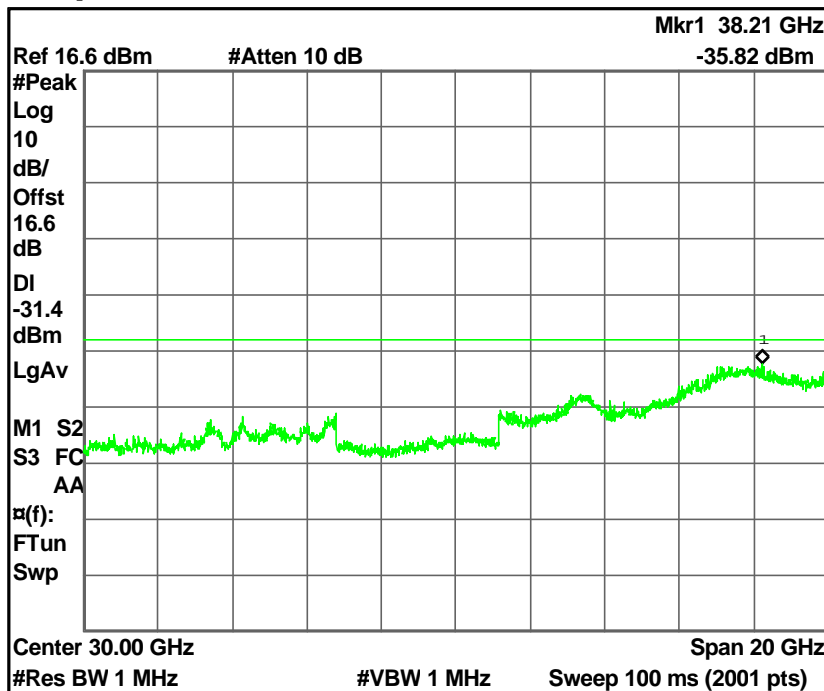


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| Freq Offset 0.00000000 Hz |
| Signal Track On Off |

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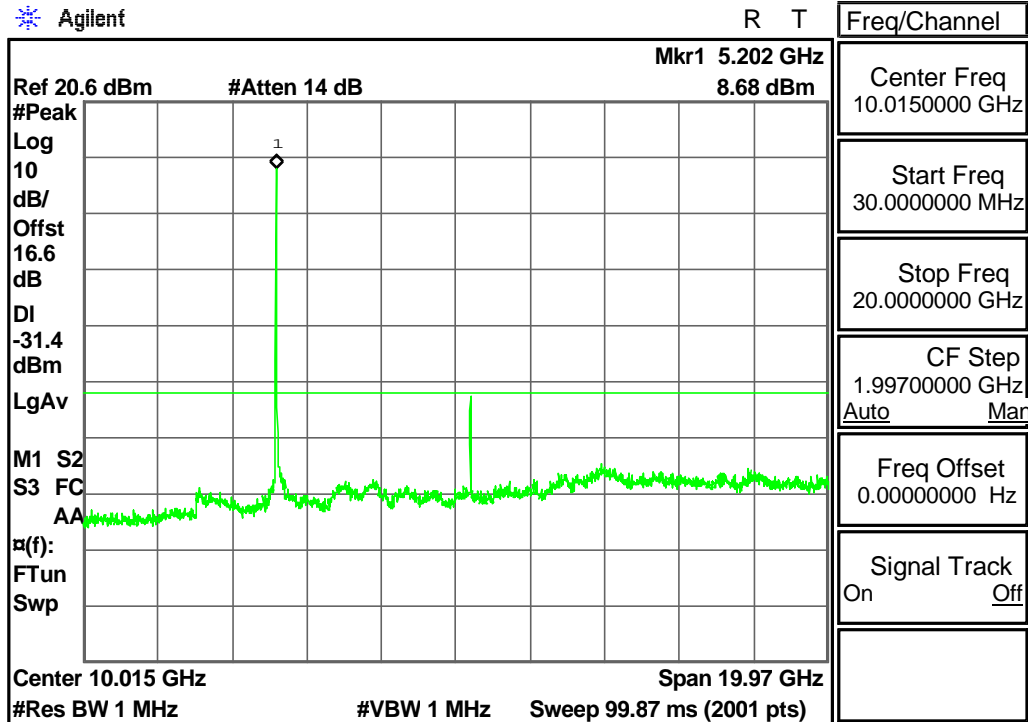
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| Signal Track On Off |

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802.11an, HT20, Chain 0+Chain 1, middle channel

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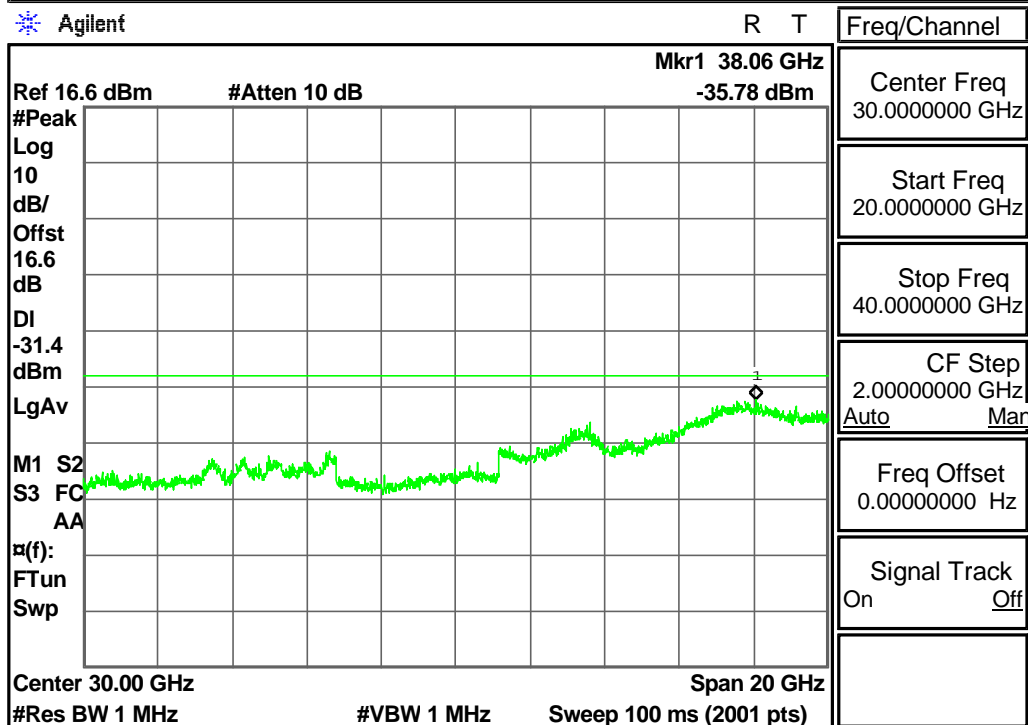
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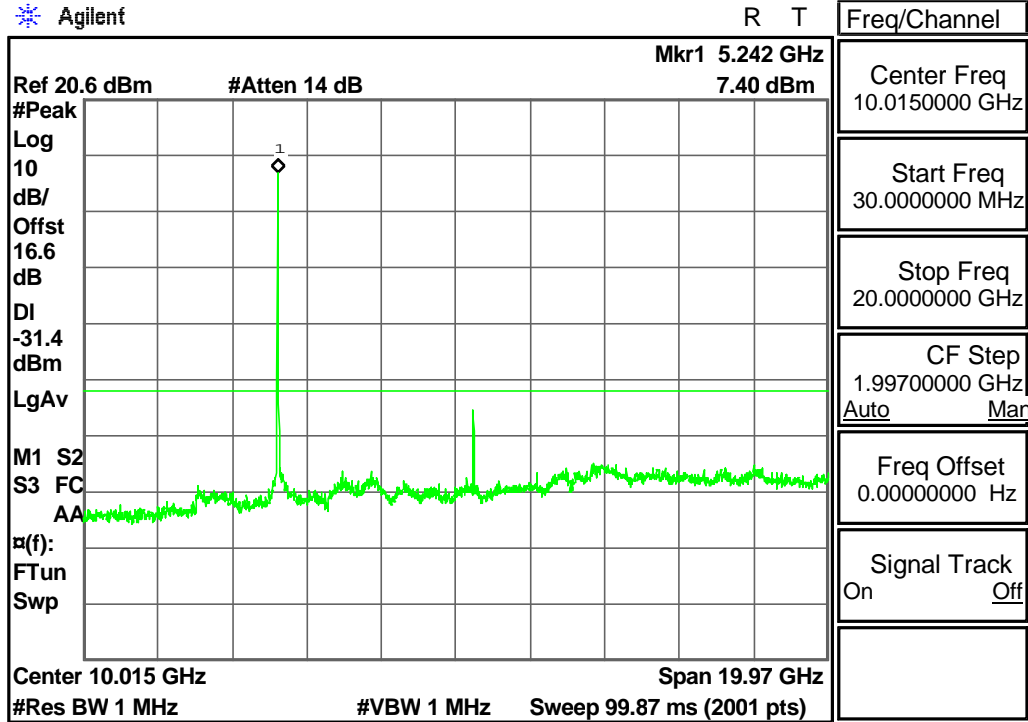


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802.11an, HT20, Chain 0+Chain 1, high channel

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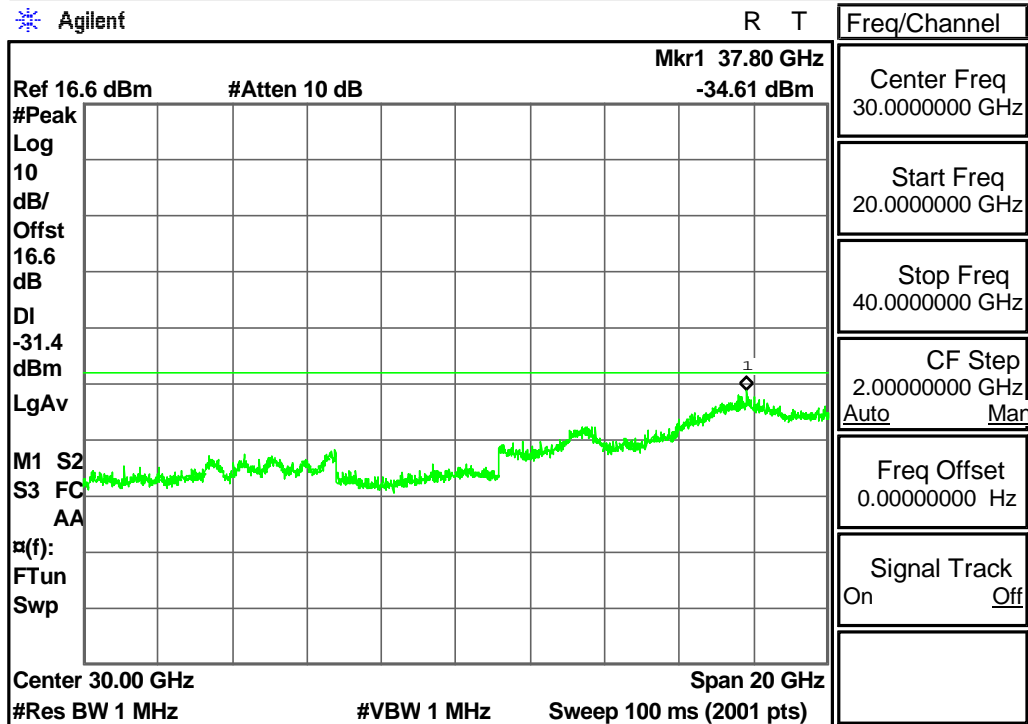
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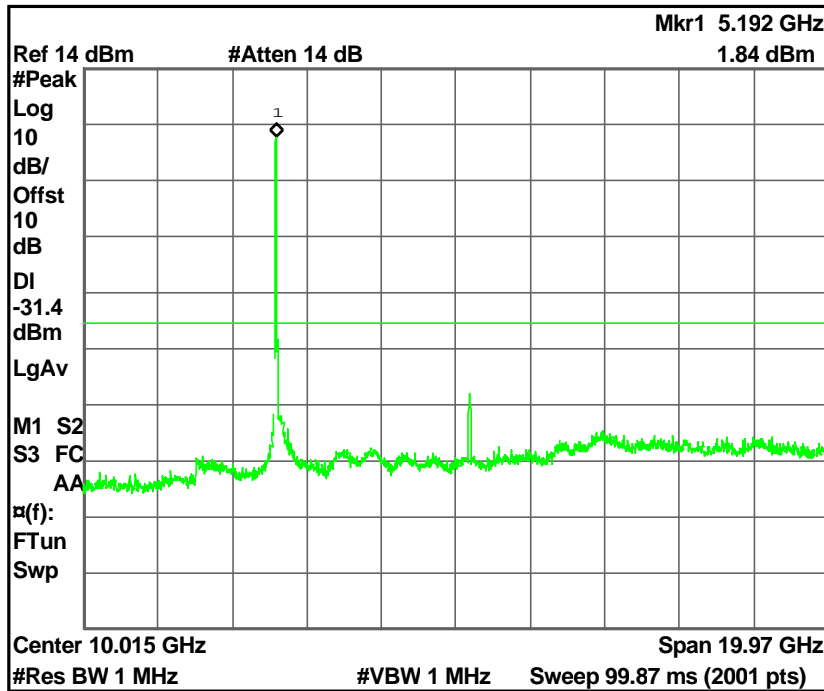


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802.11an, HT40, Chain 0, low channel

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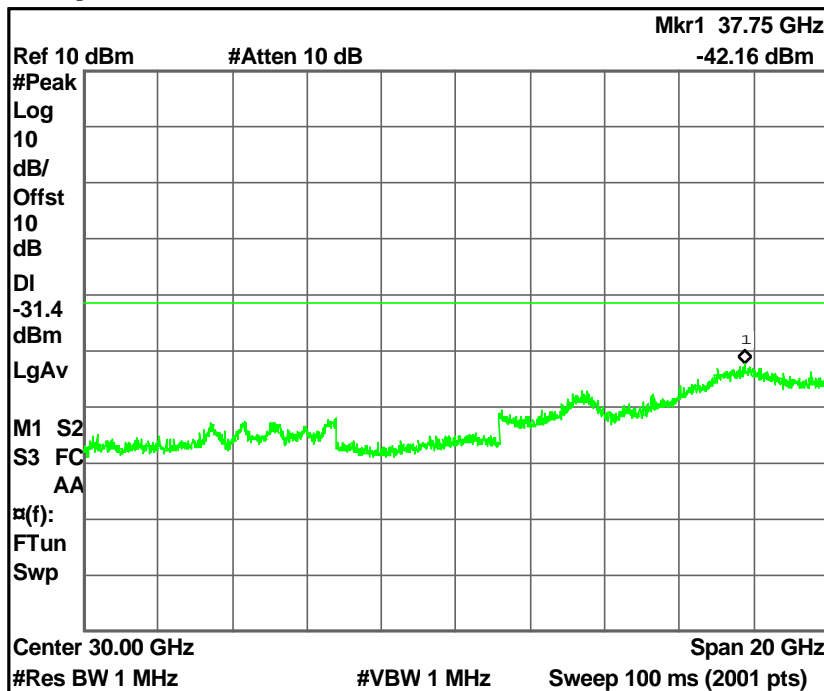


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| Signal Track On Off |

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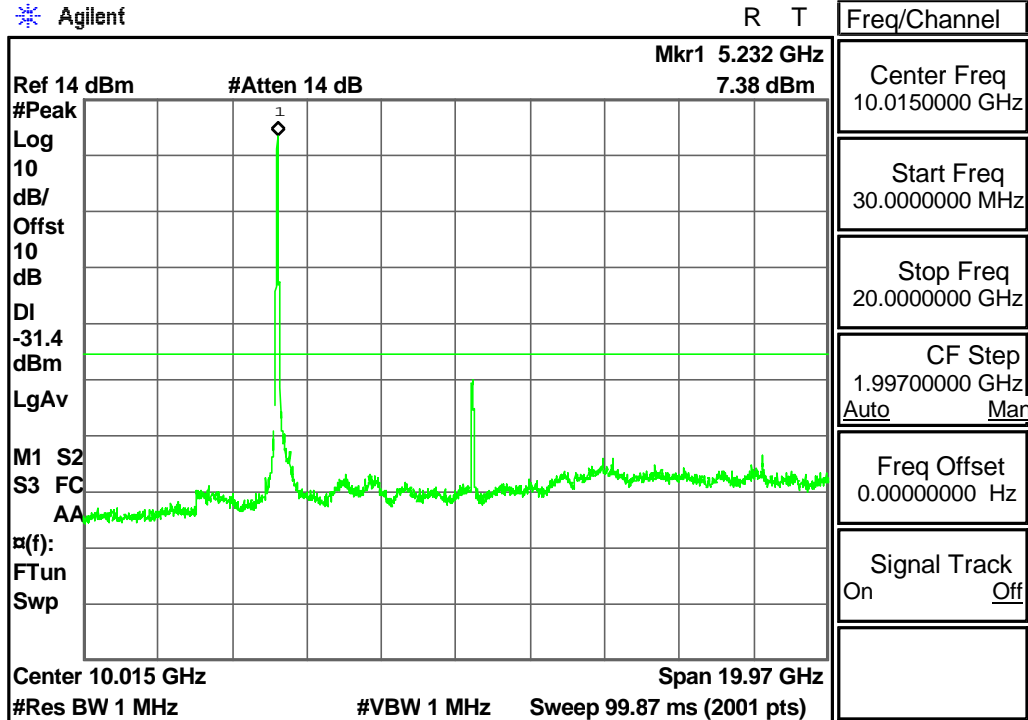
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802.11an, HT40, Chain 0, high channel

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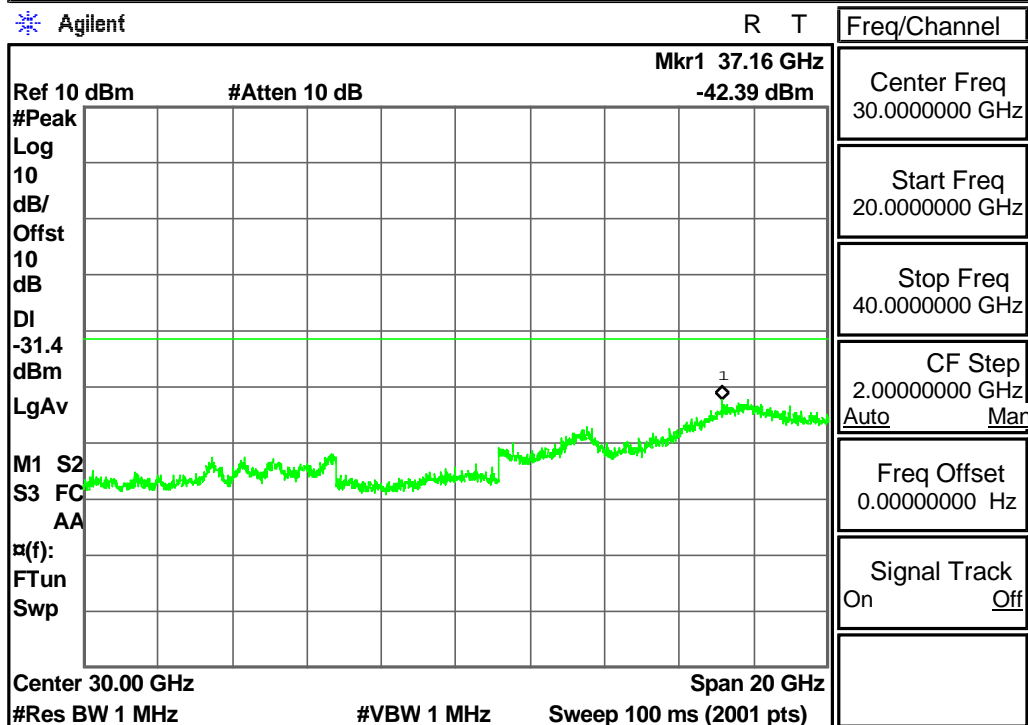
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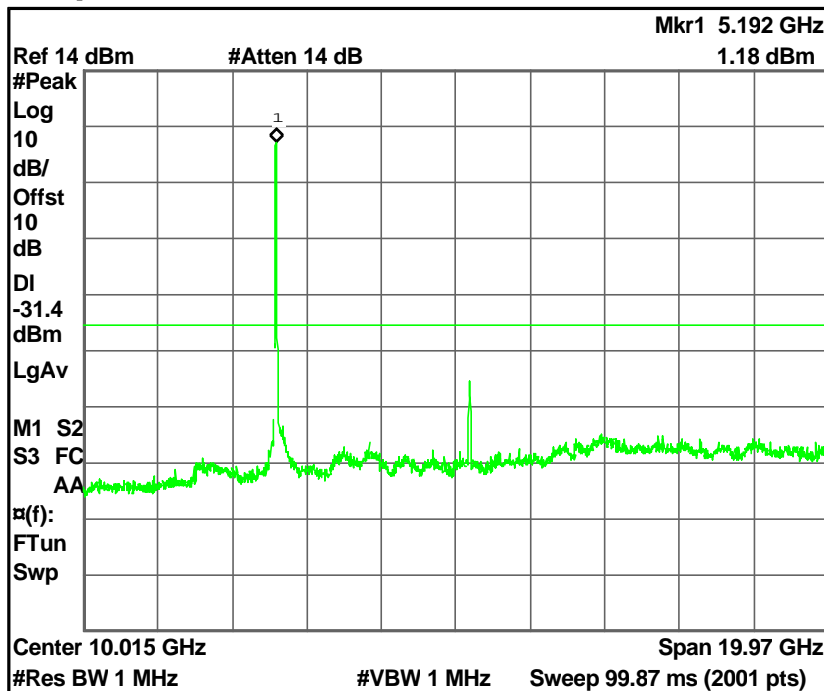


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802.11an, HT40, Chain 1, low channel

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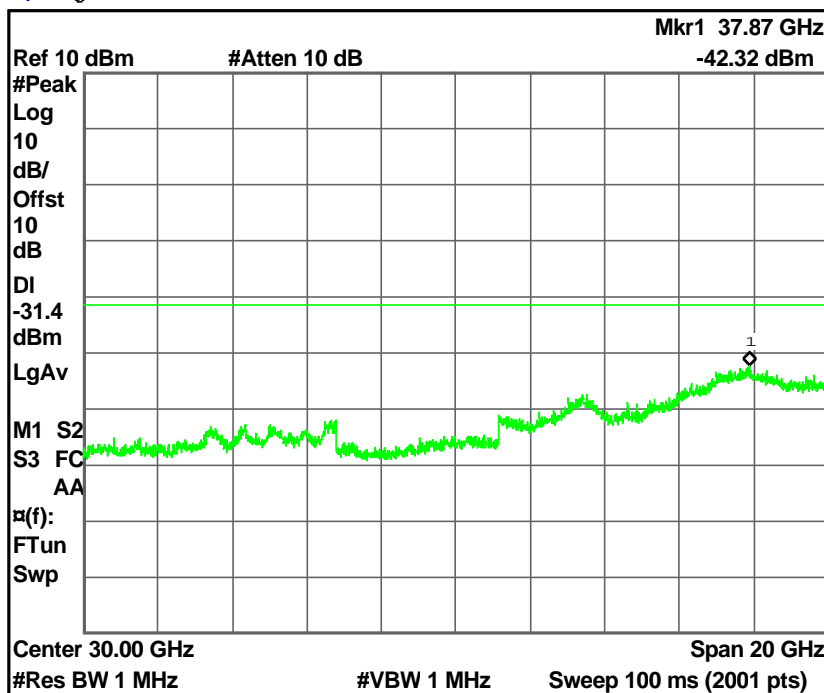


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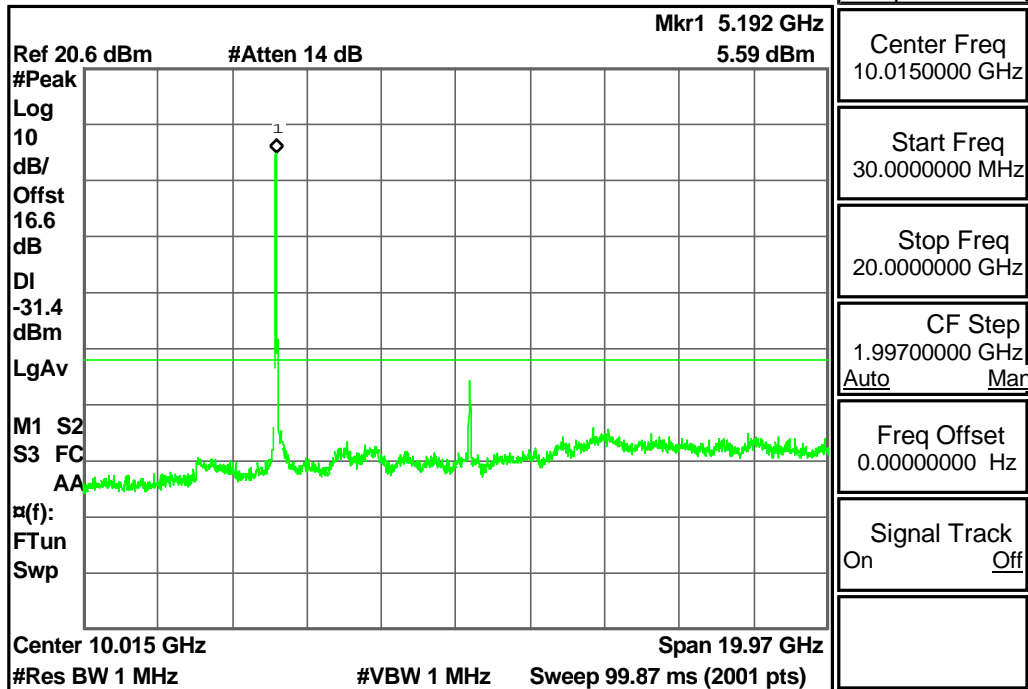
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| Signal Track On Off |

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802.11an, HT40, Chain 0+Chain 1, low channel

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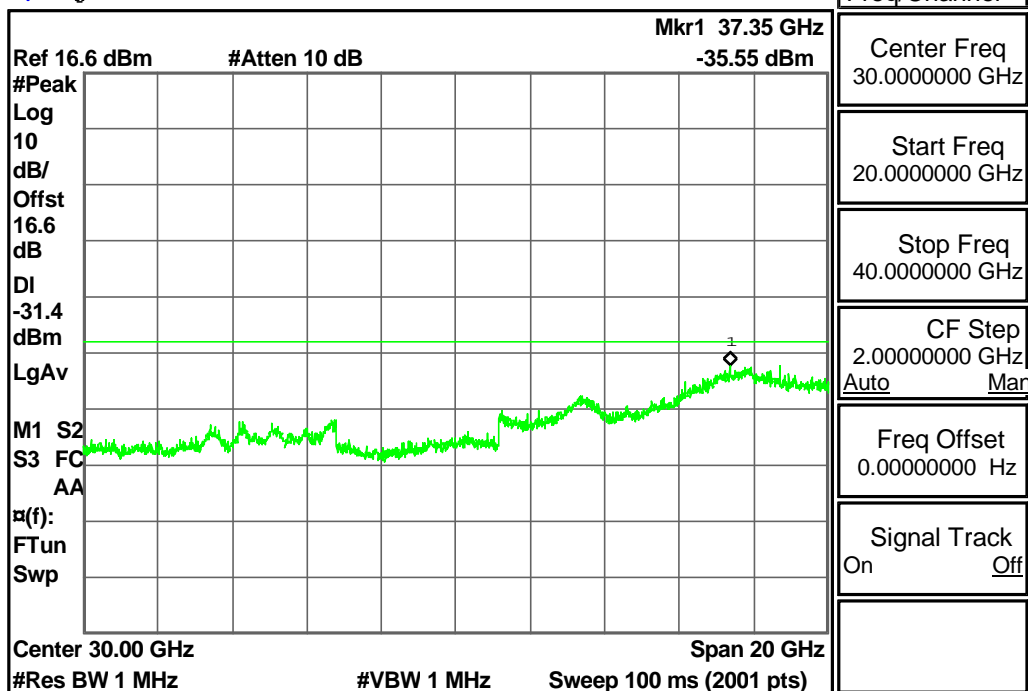
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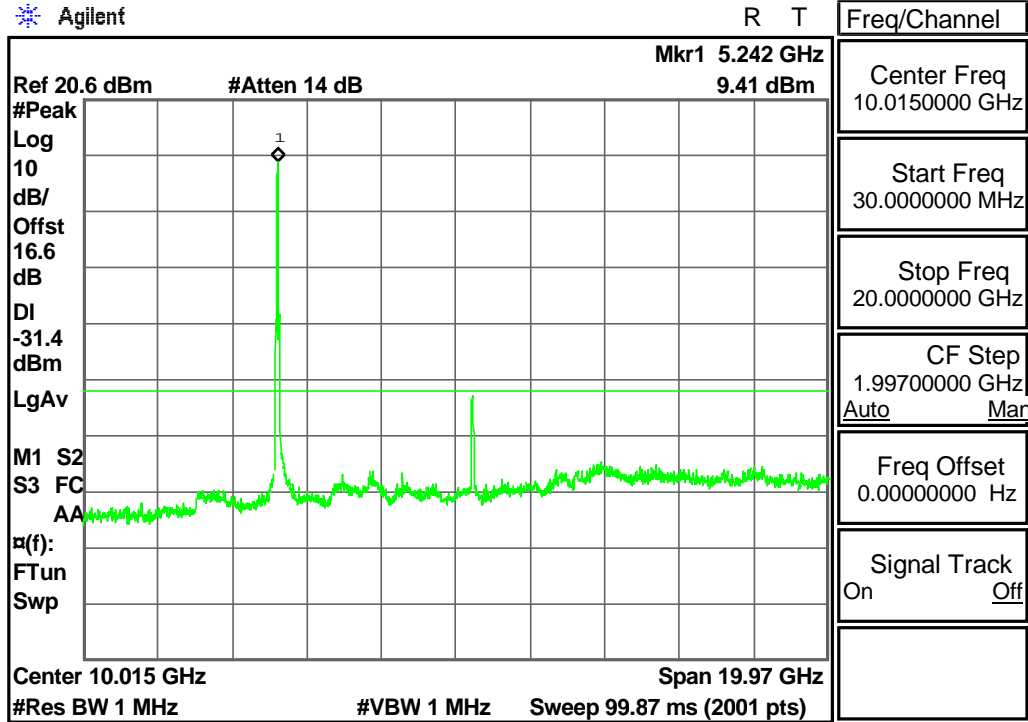


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802.11an, HT40, Chain 0+Chain 1, high channel

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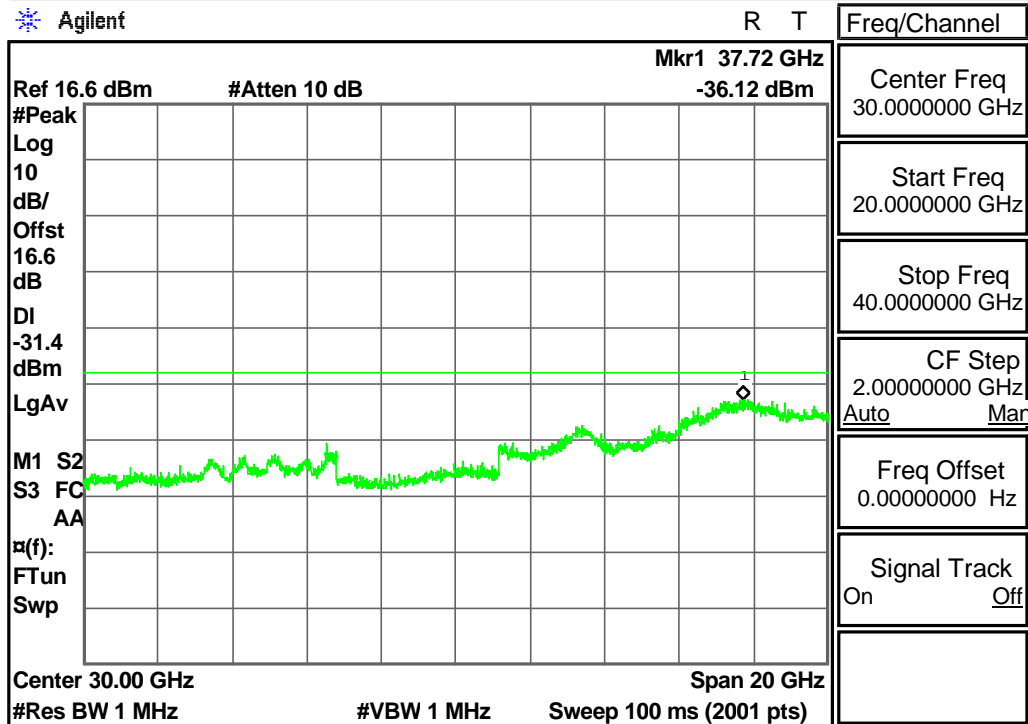
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5.2.7 Spurious Emission

RESULT:**Passed**

Date of testing : 2010-12-29 to 2011-01-10
Test standard : FCC part 15.407(b)(6)
Basic standard : ANSI C63.4: 2003
Limits : Refer to 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A, B
Ambient temperature : 20°C
Relative humidity : 56%
Atmospheric pressure : 101.0 kPa

Pre-test performed within frequency range 9kHz to 30Mhz, and the emissions level of below 30MHz are too far below the limit, hence test result below 30Mhz are omitted.

Table 51: Test result of Spurious Emissions, 802.11a

a) Channel Low
 Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 10360.000 | 62.9 | 46.4 | 64.0 | 48.7 | 3.07 | 67.1 | 51.8 | 74.0 | 54.0 |
| 15540.000 | --- | --- | --- | --- | 3.56 | --- | --- | 74.0 | 54.0 |
| 20720.000 | --- | --- | --- | --- | -5.38 | --- | --- | 74.0 | 54.0 |

b) Channel Mid
 Fundamental Frequency: 5200 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 10400.000 | 64.0 | 47.5 | 6.4 | 50.6 | 3.14 | 68.5 | 53.7 | 74.0 | 54.0 |
| 15600.000 | --- | --- | --- | --- | 3.50 | --- | --- | 74.0 | 54.0 |
| 20800.000 | --- | --- | --- | --- | -5.30 | --- | --- | 74.0 | 54.0 |
| 31200.000 | --- | --- | --- | --- | -1.14 | --- | --- | 74.0 | 54.0 |

c) Channel High
 Fundamental Frequency: 5240 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 10480.000 | 64.5 | 47.3 | 65.7 | 50.4 | 3.27 | 69.0 | 53.7 | 74.0 | 54.0 |
| 15720.000 | --- | --- | --- | --- | 3.38 | --- | --- | 74.0 | 54.0 |
| 20960.000 | --- | --- | --- | --- | -5.14 | --- | --- | 74.0 | 54.0 |
| 31440.000 | --- | --- | --- | --- | -0.95 | --- | --- | 74.0 | 54.0 |

Note:

1. Item of margin shown in above table refers to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 52: Test result of Spurious Emissions, 802.11a, HT20

a) Channel Low
 Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 10360.000 | 55.5 | 41.3 | 58.2 | 42.9 | 3.07 | 61.3 | 46.0 | 74.0 | 54.0 |
| 15540.000 | --- | --- | --- | --- | 3.56 | --- | --- | 74.0 | 54.0 |
| 20720.000 | --- | --- | --- | --- | -5.38 | --- | --- | 74.0 | 54.0 |

b) Channel Mid
 Fundamental Frequency: 5200 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 10400.000 | 55.8 | 41.3 | 58.7 | 42.7 | 3.14 | 61.8 | 45.8 | 74.0 | 54.0 |
| 15600.000 | --- | --- | --- | --- | 3.50 | --- | --- | 74.0 | 54.0 |
| 20800.000 | --- | --- | --- | --- | -5.30 | --- | --- | 74.0 | 54.0 |
| 31200.000 | --- | --- | --- | --- | -1.14 | --- | --- | 74.0 | 54.0 |

c) Channel High
 Fundamental Frequency: 5240 MHz

| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 10480.000 | 55.4 | 41.5 | 58.8 | 42.5 | 3.27 | 62.1 | 45.8 | 74.0 | 54.0 |
| 15720.000 | --- | --- | --- | --- | 3.38 | --- | --- | 74.0 | 54.0 |
| 20960.000 | --- | --- | --- | --- | -5.14 | --- | --- | 74.0 | 54.0 |
| 31440.000 | --- | --- | --- | --- | -0.95 | --- | --- | 74.0 | 54.0 |

Note:

1. Item of margin shown in above table refers to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 53: Test result of Spurious Emissions, 802.11a, HT40

a) Channel Low
 Fundamental Frequency: 5190 MHz

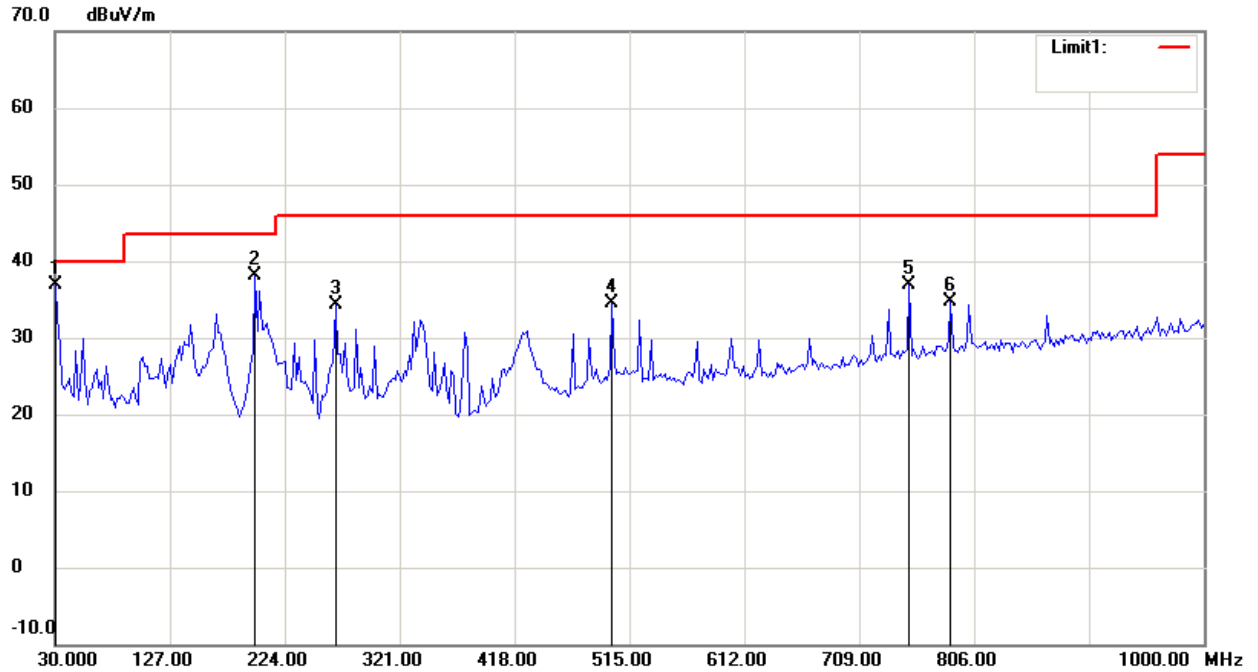
| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 10380.000 | 55.0 | 39.9 | 59.8 | 44.0 | 3.11 | 62.9 | 47.1 | 74.0 | 54.0 |
| 15570.000 | --- | --- | --- | --- | 3.53 | --- | --- | 74.0 | 54.0 |
| 20760.000 | --- | --- | --- | --- | -5.34 | --- | --- | 74.0 | 54.0 |

b) Channel High
 Fundamental Frequency: 5230 MHz

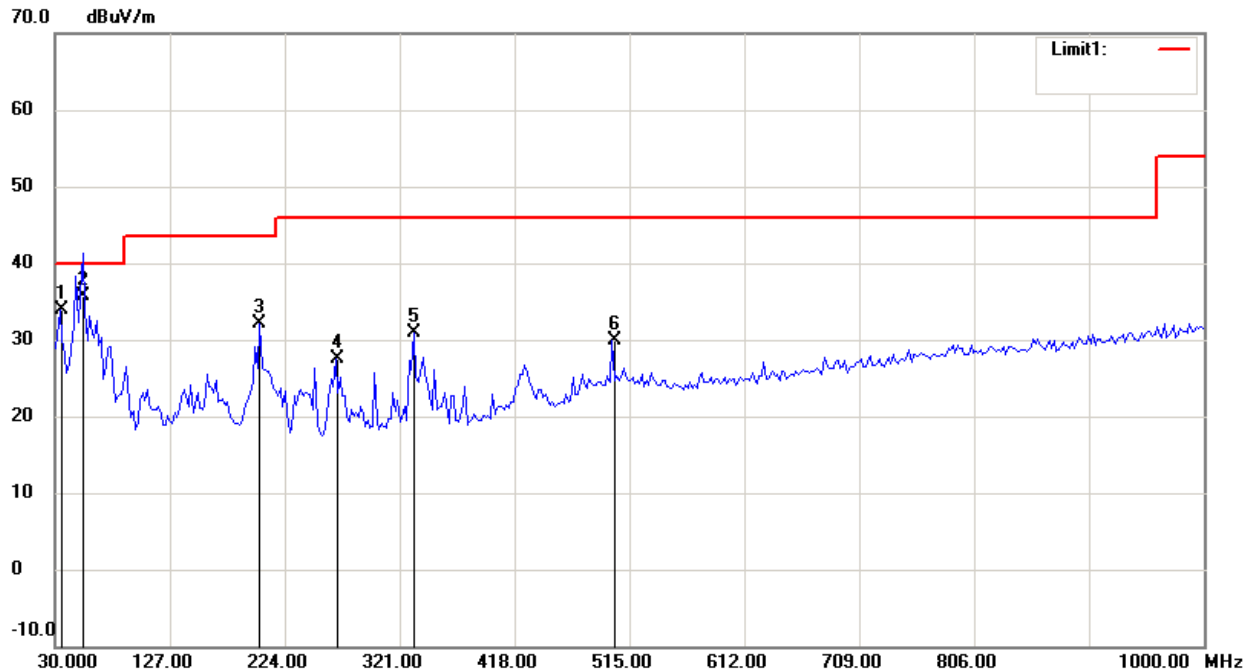
| Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|--------------------|----------------|------|------|------|-------------------------|------------------------|------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 10460.000 | 59.4 | 47.5 | 61.9 | 49.3 | 3.23 | 65.1 | 52.5 | 74.0 | 54.0 |
| 15690.000 | --- | --- | --- | --- | 3.41 | --- | --- | 74.0 | 54.0 |
| 20920.000 | --- | --- | --- | --- | -5.18 | --- | --- | 74.0 | 54.0 |
| 31380.000 | --- | --- | --- | --- | -0.99 | --- | --- | 74.0 | 54.0 |

Note:

1. Item of margin shown in above table refers to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

Table 54: Test result of Radiated Emissions below 1GHz, Horizontal polarization


| No. | Frequency (MHz) | Reading (dBuV/m) | Detector | Corrected dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|------------------|----------|----------------|-----------------|----------------|-------------|
| 1 | 30.0000 | 17.11 | peak | 19.84 | 36.95 | 40.00 | -3.05 |
| 2 | 199.1182 | 20.17 | peak | 17.90 | 38.07 | 43.50 | -5.43 |
| 3 | 267.1543 | 18.74 | peak | 15.58 | 34.32 | 46.00 | -11.68 |
| 4 | 500.4208 | 11.54 | peak | 23.03 | 34.57 | 46.00 | -11.43 |
| 5 | 751.1824 | 11.35 | peak | 25.57 | 36.92 | 46.00 | -9.08 |
| 6 | 786.1723 | 8.68 | peak | 26.04 | 34.72 | 46.00 | -11.28 |

Table 55: Test result of Radiated Emissions below 1GHz, Vertical polarization


| No. | Frequency (MHz) | Reading (dBuV/m) | Detector | Corrected dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|------------------|----------|----------------|-----------------|----------------|-------------|
| 1 | 33.8878 | 15.51 | peak | 18.39 | 33.90 | 40.00 | -6.10 |
| 2 | 53.3267 | 26.51 | QP | 9.16 | 35.67 | 40.00 | -4.33 |
| 3 | 203.0060 | 17.71 | peak | 14.44 | 32.15 | 43.50 | -11.35 |
| 4 | 267.1543 | 11.86 | peak | 15.56 | 27.42 | 46.00 | -18.58 |
| 5 | 333.2465 | 13.88 | peak | 17.09 | 30.97 | 46.00 | -15.03 |
| 6 | 500.4208 | 9.17 | peak | 20.75 | 29.92 | 46.00 | -16.08 |

Table 56: Test result of Radiated Emissions above 1GHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result @3m (dBuV/m) | Limit @3m (dBuV/m) | Margin (dB) |
|--|-------------|----------------------|-----------------------|---------------------|--------------------|-------------|
| Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured. | | | | | | |

Table 57: Test result of Spurious Emissions in restrict band
a) 802.11a

| Test Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|-------------------------|----------------|------|-------|-------|-------------------------|------------------------|-------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 5150.000 | 28.27 | 8.30 | 32.60 | 16.20 | 33.5 | 66.10 | 49.70 | 74 | 54 |
| 5350.000 | 15.48 | 6.33 | 17.13 | 6.63 | 33.5 | 50.63 | 40.13 | 74 | 54 |

b) 802.11a, HT20

| Test Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|-------------------------|----------------|-------|-------|-------|-------------------------|------------------------|-------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 5150.000 | 30.27 | 10.39 | 36.81 | 19.40 | 33.5 | 70.31 | 52.90 | 74 | 54 |
| 5350.000 | 15.29 | 6.34 | 17.91 | 6.69 | 33.5 | 51.41 | 40.19 | 74 | 54 |

c) 802.11a, HT40

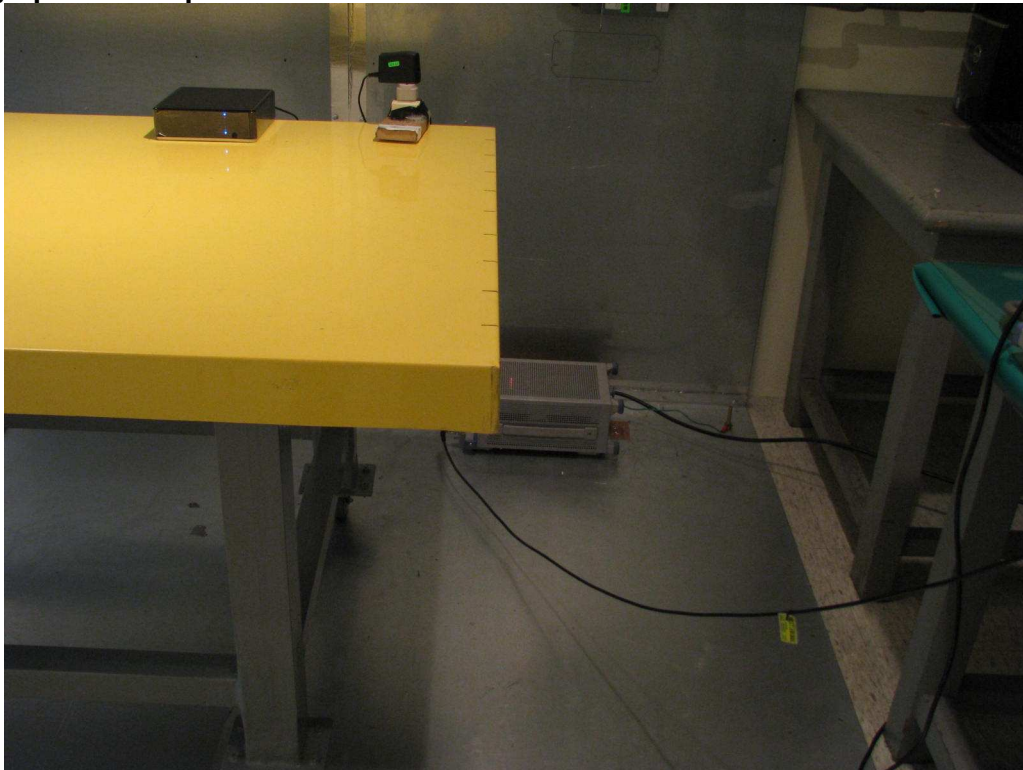
| Test Frequency (MHz) | Reading (dBuV) | | | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | |
|-------------------------|----------------|-------|-------|-------|-------------------------|------------------------|-------|-----------------------|------|
| | H | | V | | | Peak | Ave | Peak | Ave. |
| | Peak | Ave | Peak | Ave | | | | | |
| 5150.000 | 32.67 | 11.38 | 37.70 | 20.05 | 33.5 | 71.20 | 53.55 | 74 | 54 |
| 5350.000 | 16.58 | 6.37 | 17.24 | 6.66 | 33.5 | 50.74 | 40.16 | 74 | 54 |

Note:

1. Remark "---" means that the emissions level is too low to be measured.
2. The result is the highest value of radiated emission from restrict band of 4500 ~ 5150 MHz and 5350 ~ 5460 MHz.

6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



Photograph 2: Set-up for Radiated Emissions



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