




FCC RADIO TEST REPORT

FCC ID : NKR-DHURAZ68
Equipment : DHUR-AZ68 11a/b/g/n/ac 2x2 module
Brand Name : WNC
Model Name : DHUR-AZ68
Applicant : Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu
308, Taiwan
Manufacturer : Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu
308, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 20, 2017, and testing was started from Apr. 02, 2018 and completed on Apr. 23, 2018. We, SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

History of this test report.....3

Summary of Test Result.....4

1 General Description5

1.1 Information.....5

1.2 Testing Applied Standards8

1.3 Testing Location Information.....8

1.4 Measurement Uncertainty8

2 Test Configuration of EUT9

2.1 Test Channel Mode9

2.2 The Worst Case Measurement Configuration.....10

2.3 EUT Operation during Test12

2.4 Accessories12

2.5 Support Equipment.....12

2.6 Test Setup Diagram13

3 Transmitter Test Result15

3.1 AC Power-line Conducted Emissions15

3.2 DTS Bandwidth17

3.3 Maximum Conducted Output Power18

3.4 Power Spectral Density20

3.5 Emissions in Non-restricted Frequency Bands22

3.6 Emissions in Restricted Frequency Bands.....23

4 Test Equipment and Calibration Data27

Appendix A. Test Results of AC Power-line Conducted Emissions

Appendix B. Test Results of DTS Bandwidth

Appendix C. Test Results of Maximum Conducted Output Power

Appendix D. Test Results of Power Spectral Density

Appendix E. Test Results of Emissions in Non-restricted Frequency Bands

Appendix F. Test Results of Emissions in Restricted Frequency Bands

Appendix G. Test Photos

Photographs of EUT v01



Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|-----------------|---|--------------------|--------|
| 1.1.2 | 15.203 | Antenna Requirement | PASS | - |
| 3.1 | 15.207 | AC Power-line Conducted Emissions | PASS | - |
| 3.2 | 15.247(a) | DTS Bandwidth | PASS | - |
| 3.3 | 15.247(b) | Maximum Conducted Output Power | PASS | - |
| 3.4 | 15.247(e) | Power Spectral Density | PASS | - |
| 3.5 | 15.247(d) | Emissions in Non-restricted Frequency Bands | PASS | - |
| 3.6 | 15.247(d) | Emissions in Restricted Frequency Bands | PASS | - |

Reviewed by: Sam Chen
Report Producer: Vicky Huang



1 General Description

1.1 Information

1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|------------------|---------------------|----------------|
| 2400-2483.5 | b, g, n (HT20) | 2412-2462 | 1-11 [11] |
| 2400-2483.5 | n (HT40) | 2422-2452 | 3-9 [7] |

| Band | Mode | BWch (MHz) | Nant |
|---------------|--------------|------------|------|
| 2.4-2.4835GHz | 802.11b | 20 | 2TX |
| 2.4-2.4835GHz | 802.11g | 20 | 2TX |
| 2.4-2.4835GHz | 802.11n HT20 | 20 | 2TX |
| 2.4-2.4835GHz | 802.11n HT40 | 40 | 2TX |

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.



1.1.2 Antenna Information

| Set | Ant. | Port | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | | |
|-----|------|------|-------|--------------|-----------------|-----------|-------------|-----------|-----------|
| | | | | | | | WLAN 2.4GHz | WLAN 5GHz | Bluetooth |
| 1 | 1 | 1 | WNC | - | Printed Antenna | N/A | 5.31 | 5.92 | - |
| | 2 | 2 | WNC | - | Printed Antenna | N/A | 5.26 | 5.91 | - |
| 2 | 3 | 1 | WNC | 81.EK615.G69 | PIFA Antenna | I-PEX | 3.71 | 5.21 | - |
| | 4 | 2 | WNC | 81.EK615.G68 | PIFA Antenna | I-PEX | 2.44 | 6.64 | - |
| 3 | 5 | 1 | WNC | 81.EK615.G66 | PIFA Antenna | I-PEX | 2.02 | 5.20 | - |
| | 6 | 2 | WNC | 81.EK615.G65 | PIFA Antenna | I-PEX | 0.64 | 5.06 | - |
| 4 | 7 | 1 | WNC | 81.EK615.G72 | PIFA Antenna | I-PEX | 1.08 | 3.67 | - |
| | 8 | 2 | WNC | 81.EK615.G71 | PIFA Antenna | I-PEX | 0.68 | 2.47 | - |
| 5 | 9 | 1 | WNC | 81.EK615.G56 | PIFA Antenna | I-PEX | 1.97 | 3.83 | - |
| | 10 | 2 | WNC | 81.EK615.G57 | PIFA Antenna | I-PEX | 1.73 | 3.88 | - |
| 6 | 11 | 1 | WNC | 81.EK615.G58 | PIFA Antenna | I-PEX | - | - | 5.85 |
| 7 | 12 | 1 | WNC | 81.EK615.G59 | PIFA Antenna | I-PEX | - | - | 4.03 |
| 8 | 13 | 1 | WNC | 81.EK615.G51 | PIFA Antenna | I-PEX | - | - | 1.29 |
| 9 | 14 | 1 | WNC | 81.EK615.G64 | PIFA Antenna | I-PEX | - | - | -0.5 |
| 10 | 15 | 1 | WNC | 81.EK615.G67 | PIFA Antenna | I-PEX | - | - | 1.84 |
| 11 | 16 | 1 | WNC | 81.EK615.G70 | PIFA Antenna | I-PEX | - | - | 0.73 |

Note: The EUT has eleven set antennas, and they have total of sixteen antennas.

For 2.4GHz / 5GHz WLAN function (2TX/2RX):

Antenna set 1~5 support 2.4GHz / 5GHz WLAN function.

Antenna set 2~5 are the same type antennas, only the higher gain antenna "Set 2" was tested and recorded in the report.

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Antenna set 6~11 support Bluetooth function.

Antenna set 6~11 are the same type antennas, only the higher gain antenna "Set 6" was tested and recorded in the report.

Only Port 1 can be used as transmitting/receiving.



1.1.3 Mode Test Duty Cycle

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|--------------|----|---------|----------------|----------------|
| 802.11b | 1 | 0 | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11g | 1 | 0 | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11n HT20 | 1 | 0 | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11n HT40 | 1 | 0 | n/a (DC>=0.98) | n/a (DC>=0.98) |

1.1.4 EUT Operational Condition

| | | | | |
|-----------------------|---|---|--|--|
| EUT Power Type | From host system | | | |
| Beamforming Function | <input type="checkbox"/> With beamforming | <input checked="" type="checkbox"/> Without beamforming | | |
| Function | <input checked="" type="checkbox"/> Point-to-multipoint | <input type="checkbox"/> Point-to-point | | |
| Test Software Version | QATool_Dbg | | | |

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR7D1249AA

Below is the table for the change of the product with respect to the original one.

| Modifications | Performance Checking |
|---|---------------------------------|
| Adding 10 set antennas for PIFA antenna. (Set 2-Model Name: Port 1:81.EK615.G69/Port 2:81.EK615.G68, Set 3-Model Name: Port 1:81.EK615.G66/Port 2:81.EK615.G65, Set 4-Model Name: Port 1:81.EK615.G72/Port 2:81.EK615.G71, Set 5-Model Name: Port 1:81.EK615.G56/Port 2:81.EK615.G57, Set 6-Model Name: 81.EK615.G58, Set 7-Model Name: 81.EK615.G59, Set 8-Model Name: 81.EK615.G51, Set 9-Model Name: 81.EK615.G64, Set 10-Model Name: 81.EK615.G67, Set 11-Model Name: 81.EK615.G70) | It was performed for all tests. |



1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v04
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

| Testing Location | | |
|-------------------------------------|--------|---|
| <input type="checkbox"/> | HWA YA | ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055 |
| <input checked="" type="checkbox"/> | JHUBEI | ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085 |

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date |
|----------------|---------------|-------------------------|------------------|-----------------------------|
| RF Conducted | TH01-CB | Serway Li | 25°C / 55% | Apr. 19, 2018~Apr. 23, 2018 |
| Radiated | 03CH01-CB | Eddie Weng & Justin Lin | 22°C / 54% | Apr. 02, 2018~Apr. 23, 2018 |
| AC Conduction | CO01-CB | Howard Liu | 22°C / 58% | Apr. 11, 2018 |

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Test Items | Uncertainty | Remark |
|--------------------------------------|------------------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz) | 3.2 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.6 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 3.7 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 3.5 dB | Confidence levels of 95% |
| Conducted Emission | 1.7 dB | Confidence levels of 95% |
| Output Power Measurement | 1.33 dB | Confidence levels of 95% |
| Power Density Measurement | 1.27 dB | Confidence levels of 95% |
| Bandwidth Measurement | 9.74 x10 ⁻⁸ | Confidence levels of 95% |



2 Test Configuration of EUT

2.1 Test Channel Mode

| Mode | Power Setting |
|------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_2TX | - |
| 2412MHz | 21 |
| 2437MHz | 21 |
| 2457MHz | |
| 2462MHz | 24 |
| 802.11g_Nss1,(6Mbps)_2TX | - |
| 2412MHz | 20 |
| 2437MHz | 29 |
| 2457MHz | 29 |
| 2462MHz | 22 |
| 802.11n HT20_Nss1,(MCS0)_2TX | - |
| 2412MHz | 21 |
| 2437MHz | 29 |
| 2457MHz | 29 |
| 2462MHz | 21 |
| 802.11n HT40_Nss1,(MCS0)_2TX | - |
| 2422MHz | 20 |
| 2427MHz | 22 |
| 2432MHz | 24 |
| 2437MHz | 24 |
| 2442MHz | 21 |
| 2447MHz | 1F |
| 2452MHz | 1F |



2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|--|
| Tests Item | AC power-line conducted emissions |
| Condition | AC power-line conducted measurement for line and neutral |
| Operating Mode | CTX |
| 1 | EUT with Set 2 antennas (2.4GHz WLAN function) |
| 2 | EUT with Set 2 antennas (5GHz WLAN function) |
| 3 | EUT with Set 6 antennas (Bluetooth function) |
| For operating mode 1 is the worst case and it was record in this test report. | |

| The Worst Case Mode for Following Conformance Tests | |
|---|--|
| Tests Item | DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands |
| Test Condition | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Emissions in Restricted Frequency Bands |
| Test Condition | Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| Operating Mode < 1GHz | CTX |
| The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test. The worst case was found at Y axis, so the measurement will follow this same test configuration. | |
| 1 | EUT Y axis with Set 2 antennas (2.4GHz WLAN function) |
| 2 | EUT Y axis with Set 2 antennas (5GHz WLAN function) |
| 3 | EUT Y axis with Set 6 antennas (Bluetooth function) |
| For operating mode 1 is the worst case and it was record in this test report. | |
| Operating Mode > 1GHz | CTX |
| The EUT was performed at X axis, Y axis and Z axis position. The worst case was found at Y axis, so the measurement will follow this same test configuration. | |
| 1 | EUT Y axis with Set 2 antennas (2.4GHz WLAN function) |



| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| Operating Mode | |
| 1 | EUT with Set 1 and Set 6 antennas (2.4GHz WLAN + Bluetooth function) |
| 2 | EUT with Set 1 and Set 6 antennas (5GHz WLAN + Bluetooth function) |
| 3 | EUT with Set 2 and Set 6 antennas (2.4GHz WLAN + Bluetooth function) |
| 4 | EUT with Set 2 and Set 6 antennas (5GHz WLAN + Bluetooth function) |
| Refer to Sporton Test Report No.: FA7D1249-01 for Co-location RF Exposure Evaluation. | |



2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A

2.5 Support Equipment

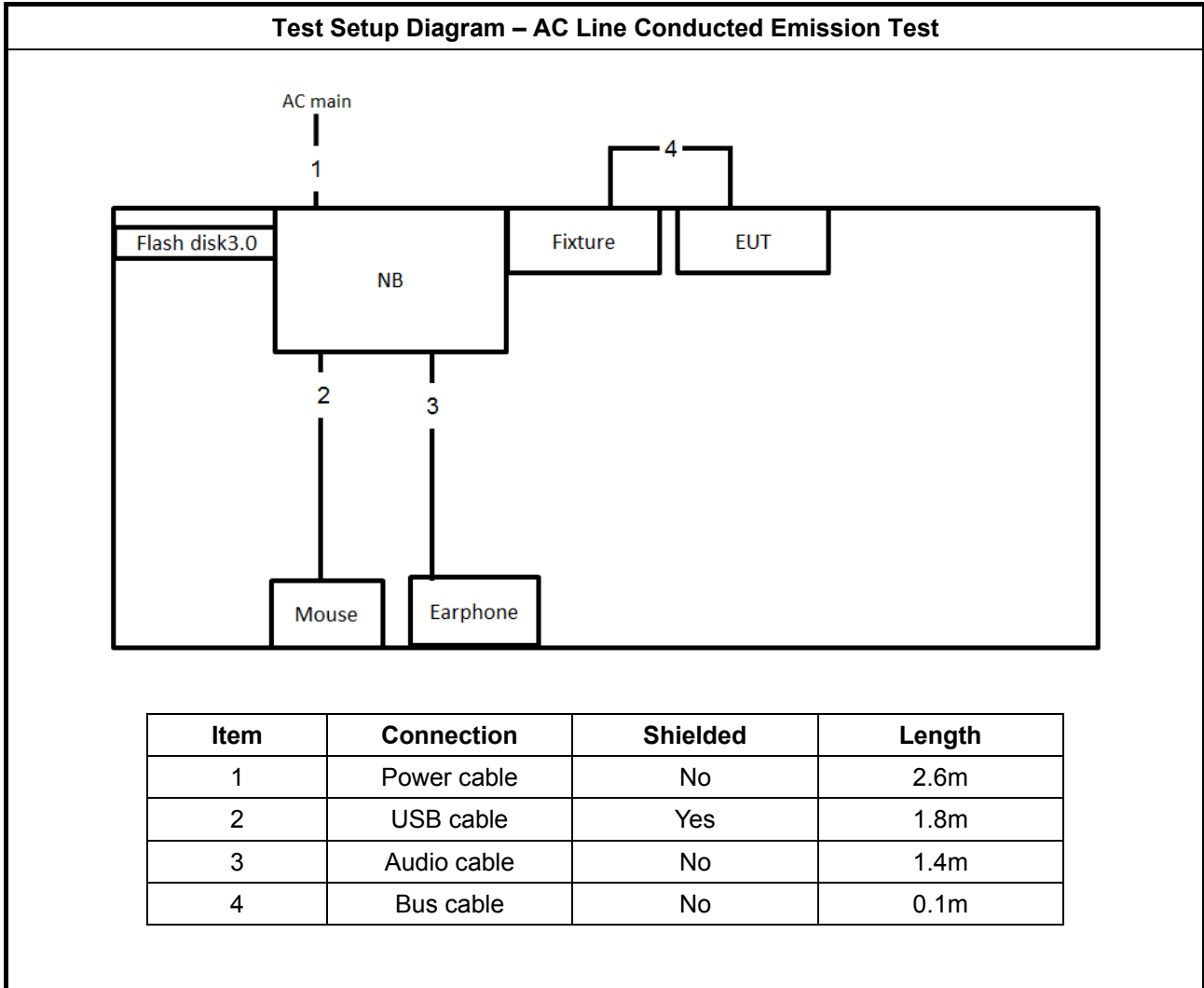
For Test Site No: CO01-CB

| Support Equipment | | | | |
|-------------------|---------------|------------|--------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB | DELL | E6430 | DoC |
| 2 | Earphone | e-Power | S90W | DoC |
| 3 | Mouse | Logitech | M-U0026 | DoC |
| 4 | Fixture | WNC | 48DHUR09.SGB | DoC |
| 5 | Flash disk3.0 | Transcend | JetFlash-760 | DoC |

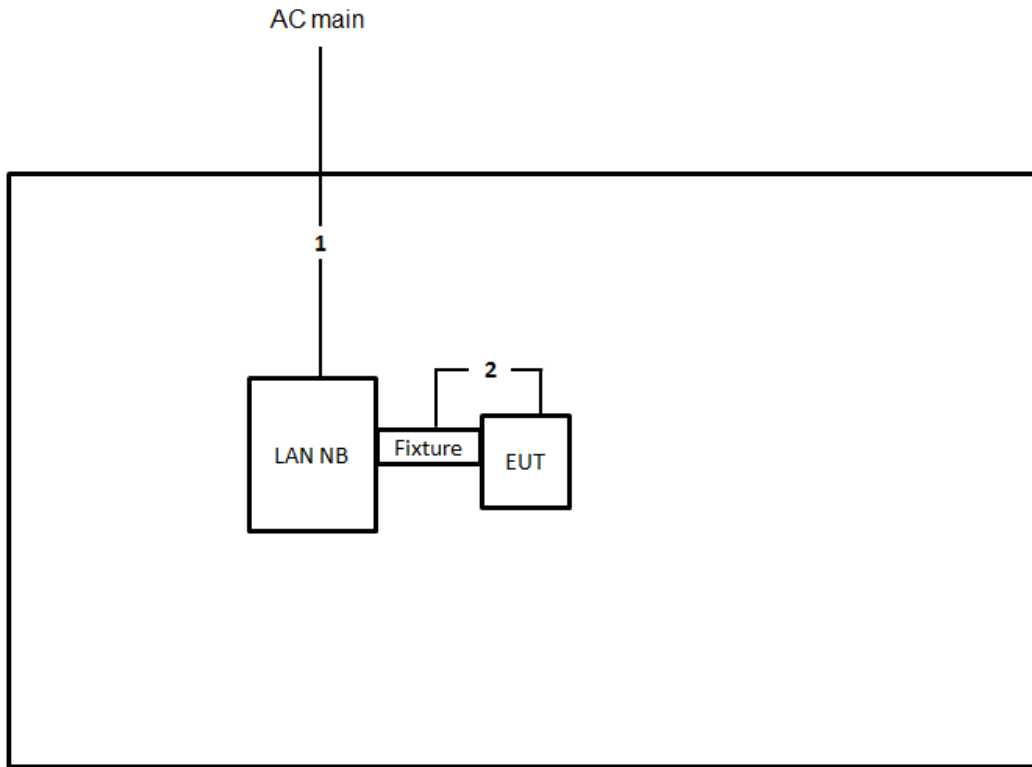
For Test Site No: 03CH01-CB and TH01-CB

| Support Equipment | | | | |
|-------------------|-----------|------------|--------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB | DELL | E4300 | DoC |
| 2 | Fixture | WNC | 48DHUR09.SGB | DoC |

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test



| Item | Connection | Shielded | Length |
|------|-------------|----------|--------|
| 1 | Power cable | No | 1.5m |
| 2 | Bus cable | No | 0.1m |



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit | | |
|---|------------|-----------|
| Frequency Emission (MHz) | Quasi-Peak | Average |
| 0.15-0.5 | 66 - 56 * | 56 - 46 * |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

Note 1: * Decreases with the logarithm of the frequency.

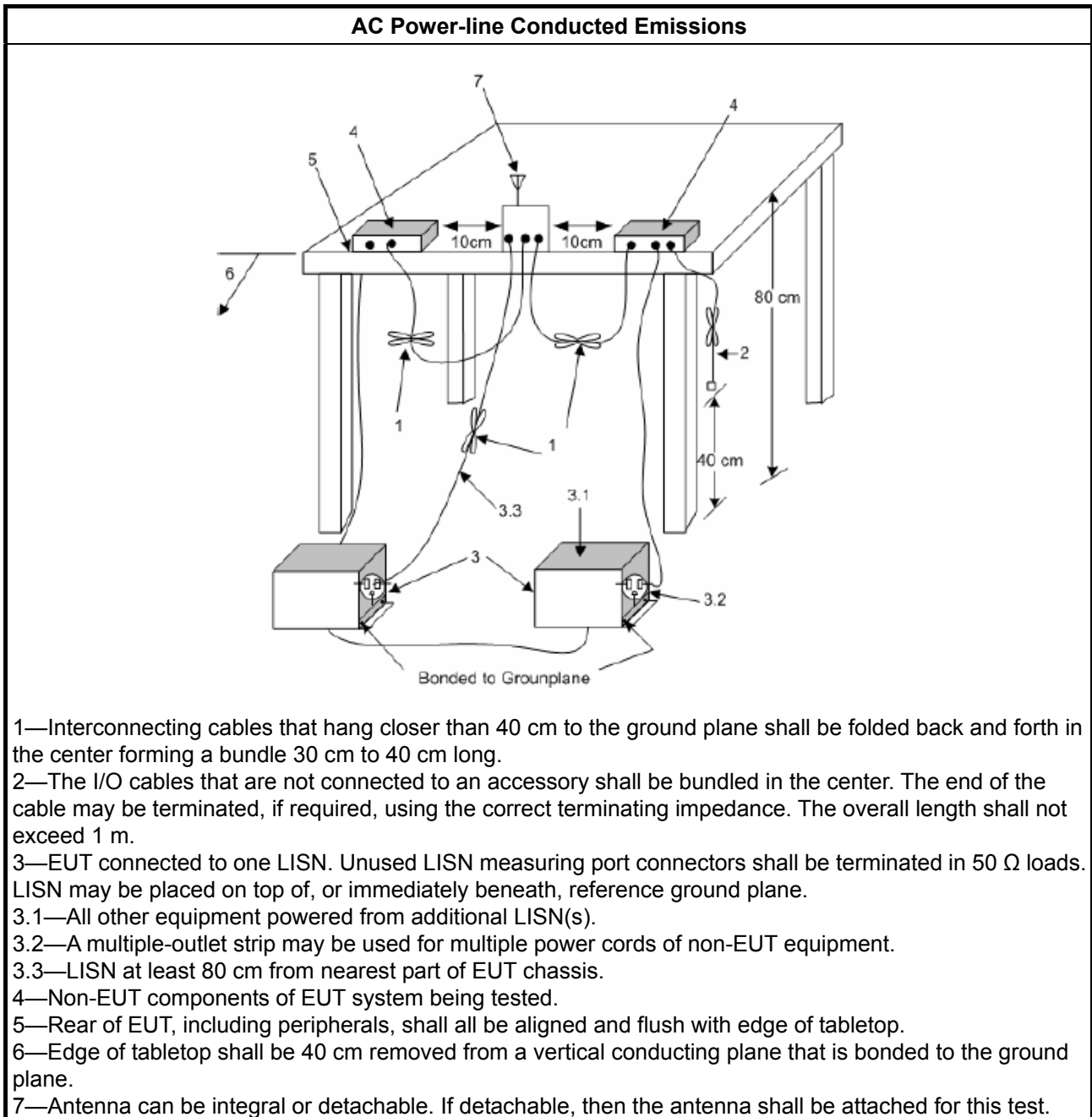
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

| Test Method |
|--|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit |
|---|
| Systems using digital modulation techniques: |
| <ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz. |

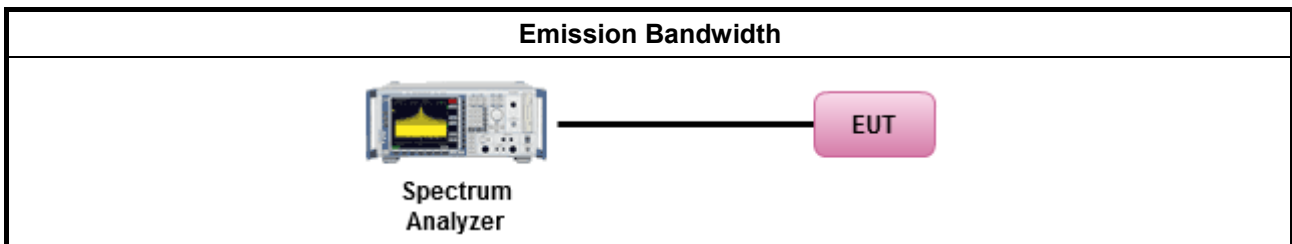
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

| Test Method |
|--|
| <ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: |
| <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement. |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement. |
| <input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | |
|--|---|
| | <ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W) |
| | <ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm |
| | <ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm |
| | <ul style="list-style-type: none"> ▪ Smart antenna system (SAS): |
| | <ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm |
| | <ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm |
| | <ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm |
| <p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p> | |

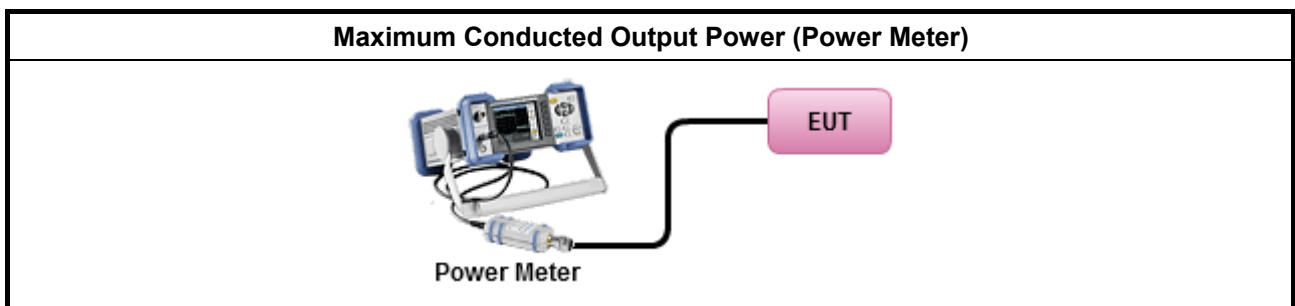
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

| Test Method | |
|---|--|
| <ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power | |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method). |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.3 (peak power meter for VBW ≥ DTS BW) |
| <ul style="list-style-type: none"> ▪ Maximum Conducted Output Power | |
| [duty cycle ≥ 98% or external video / power trigger] | |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging). |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed) |
| duty cycle < 98% and average over on/off periods with duty factor | |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging). |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed) |
| Measurement using a power meter (PM) | |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter). |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.3.2 Method AVGPM-G (using an gate RF average power meter). |
| <ul style="list-style-type: none"> ▪ For conducted measurement. | |
| | <ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| | <ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ |

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit |
|---|
| <ul style="list-style-type: none"> ▪ Power Spectral Density (PSD) \leq 8 dBm/3kHz |

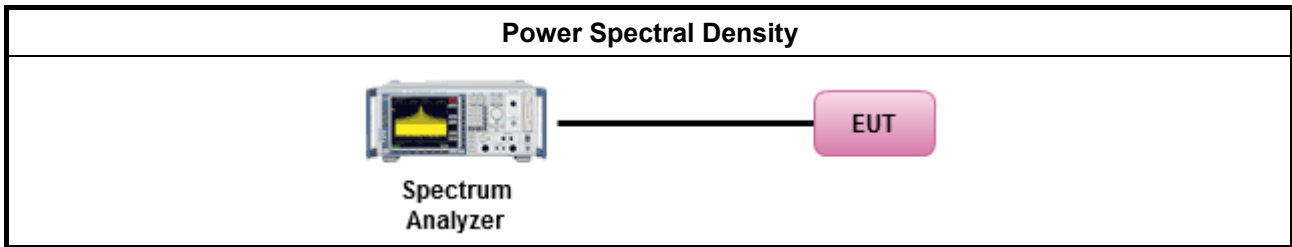
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

| Test Method |
|--|
| <ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option). |
| <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle \geq 98% or external video / power trigger] |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging). |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.4 Method AVGPSD-2 (slow sweep speed) duty cycle $<$ 98% and average over on/off periods with duty factor |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.5 Method AVGPSD-1 Alt (spectral trace averaging). |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed) |
| <ul style="list-style-type: none"> ▪ For conducted measurement. |
| <ul style="list-style-type: none"> ▪ If The EUT supports multiple transmit chains using options given below: |
| <input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, |
| <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit | |
|------------------------------------|------------|
| RF output power procedure | Limit (dB) |
| Peak output power procedure | 20 |
| Average output power procedure | 30 |

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

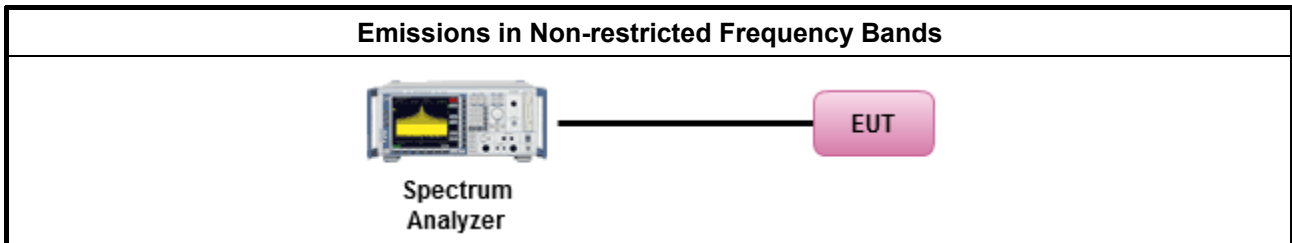
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

| Test Method |
|--|
| <ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands. |

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

| Restricted Band Emissions Limit | | | |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz) | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 |
| 0.490~1.705 | 24000/F(kHz) | 33.8 - 23 | 30 |
| 1.705~30.0 | 30 | 29 | 30 |
| 30~88 | 100 | 40 | 3 |
| 88~216 | 150 | 43.5 | 3 |
| 216~960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

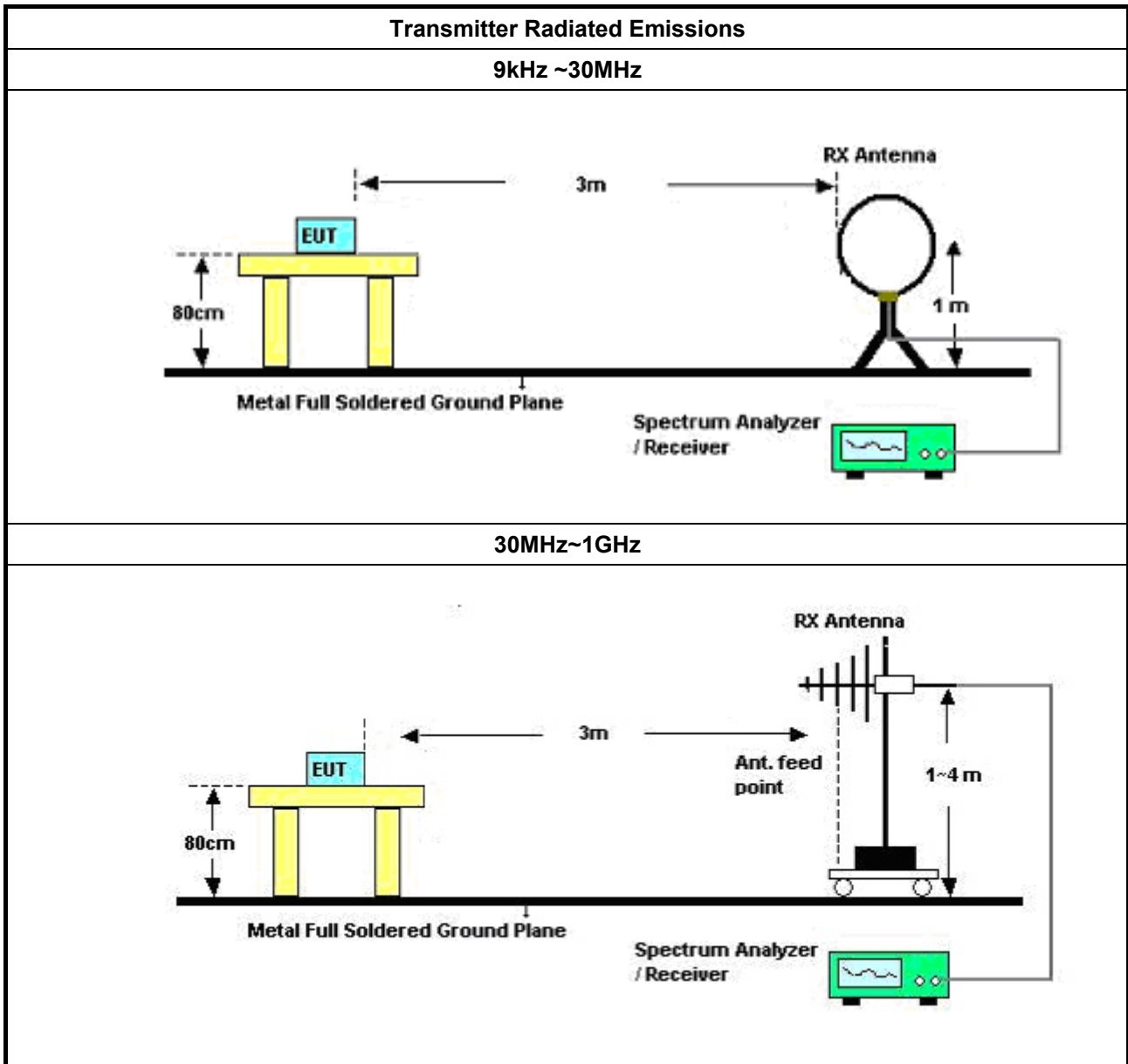
Refer a test equipment and calibration data table in this test report.



3.6.3 Test Procedures

| Test Method | |
|--|--|
| <ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. | |
| <ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. | |
| <ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: | |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands. |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle \geq 98%) |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor). |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW \geq 1/T). |
| | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time. |
| | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit. |
| <ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: | |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements. |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz). |
| <ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2. | |
| | <ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB |
| | <ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. |

3.6.4 Test Setup





4 Test Equipment and Calibration Data

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|-----------------------------------|---------------|-------------------|------------------|-----------------|------------------|----------------------|-----------------------|
| EMI Receiver | Agilent | N9038A | My52260123 | 9kHz ~ 8.45GHz | Jan. 31, 2018 | Jan. 30, 2019 | Conduction (CO01-CB) |
| LISN | F.C.C. | FCC-LISN-50-16-2 | 04083 | 150kHz ~ 100MHz | Dec. 20, 2017 | Dec. 19, 2018 | Conduction (CO01-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127647 | 9kHz ~ 30MHz | Dec. 29, 2017 | Dec. 28, 2018 | Conduction (CO01-CB) |
| Impulsbegrenzer Pulse Limiter | Rohde&Schwarz | ESH3-Z2 | 100430 | 9kHz ~ 30MHz | Feb. 06, 2018 | Feb. 05, 2019 | Conduction (CO01-CB) |
| COND Cable | Woken | Cable | 01 | 150kHz ~ 30MHz | May 23, 2017 | May 22, 2018 | Conduction (CO01-CB) |
| Software | Audix | E3 | 6.120210n | - | N.C.R. | N.C.R. | Conduction (CO01-CB) |
| BILOG ANTENNA with 6dB Attenuator | TESEQ & EMCI | CBL6112D & N-6-06 | 37880 & AT-N0609 | 20MHz ~ 2GHz | Aug. 30, 2017 | Aug. 29, 2018 | Radiation (03CH01-CB) |
| Loop Antenna | Teseq | HLA 6120 | 24155 | 9kHz - 30 MHz | Mar. 16, 2018 | Mar. 15, 2019 | Radiation (03CH01-CB) |
| Horn Antenna | EMCO | 3115 | 00075790 | 750MHz ~ 18GHz | Nov. 20, 2017 | Nov. 19, 2018 | Radiation (03CH01-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 05, 2017 | Jul. 04, 2018 | Radiation (03CH01-CB) |
| Pre-Amplifier | EMCI | EMC330N | 980332 | 20MHz ~ 3GHz | May 02, 2017 | May 01, 2018 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02310 | 1GHz ~ 26.5GHz | Jan. 09, 2018 | Jan. 08, 2019 | Radiation (03CH01-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 10, 2017 | Jul. 09, 2018 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Nov. 23, 2017 | Nov. 22, 2018 | Radiation (03CH01-CB) |
| EMI Test | R&S | ESCS | 100355 | 9kHz ~ 2.75GHz | May 06, 2017 | May 05, 2018 | Radiation (03CH01-CB) |
| RF Cable-low | Woken | Low Cable-16+17 | N/A | 30 MHz ~ 1 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16 | N/A | 1 GHz ~ 18 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16+17 | N/A | 1 GHz ~ 18 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|-------------------|--------------|------------------|---------------|------------------|------------------|----------------------|-----------------------|
| RF Cable-high | Woken | High Cable-40G#1 | N/A | 18GHz ~ 40 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G#2 | N/A | 18GHz ~ 40 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | Dec. 21, 2017 | Dec. 20, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-06 | 1 GHz – 26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-07 | 1 GHz –26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-08 | 1 GHz –26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-09 | 1 GHz –26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz –26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| Power Sensor | Agilent | U2021XA | MY53410001 | 50MHz~18GHz | Nov. 20, 2017 | Nov. 19, 2018 | Conducted (TH01-CB) |

Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.



AC Power-line Conducted Emissions Result

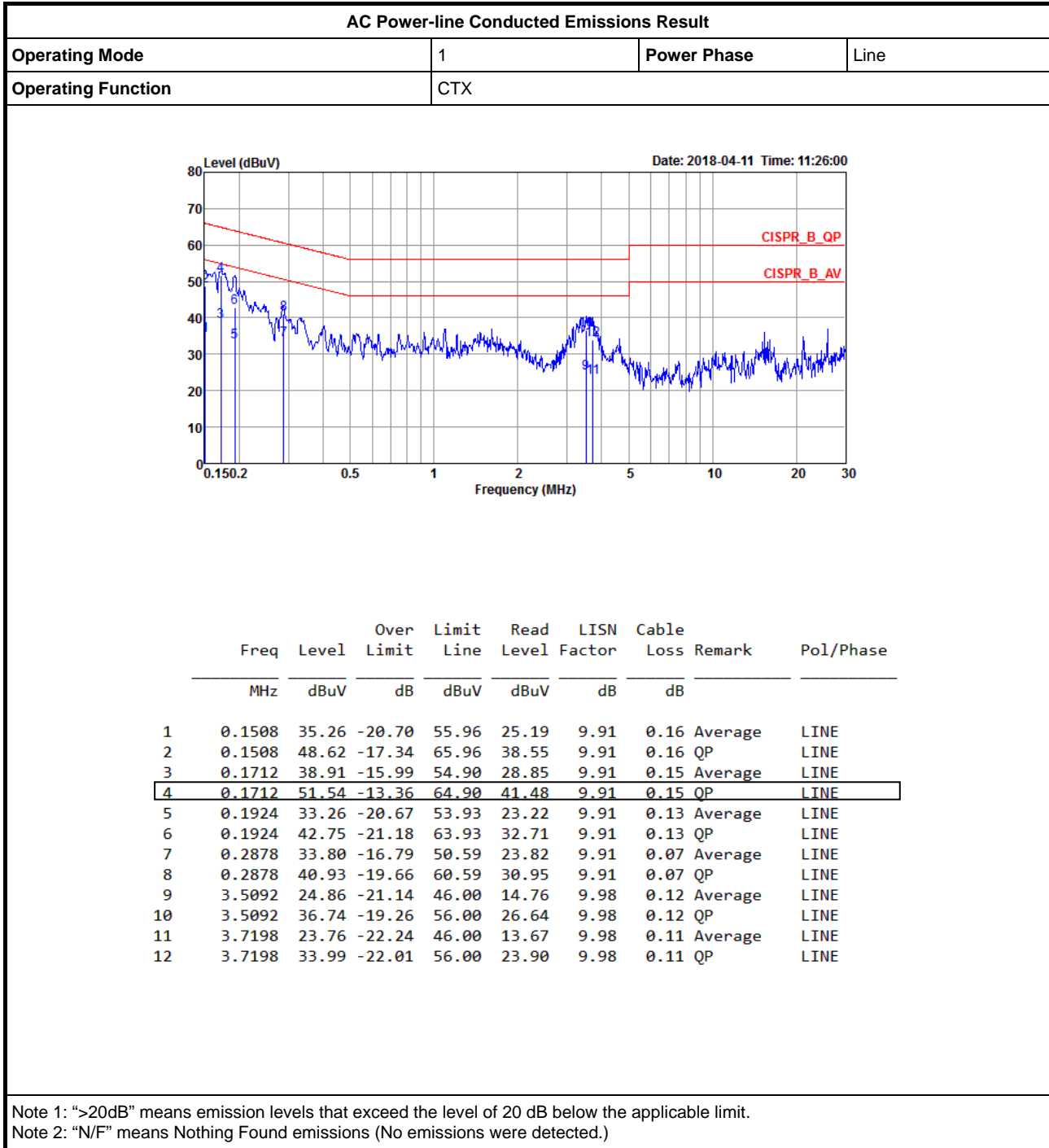
Appendix A

| AC Power-line Conducted Emissions Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------|-------------|------------|------------|------------|-------------|------------|------------|------------|-------------|------------|--------|-----------|--|-----|------|----|------|------|----|----|--|--|---|--------|-------|--------|-------|-------|------|------|---------|---------|---|--------|-------|--------|-------|-------|------|------|----|---------|---|--------|-------|--------|-------|-------|------|------|---------|---------|---|--------|-------|--------|-------|-------|------|------|----|---------|---|--------|-------|--------|-------|-------|------|------|---------|---------|---|--------|-------|--------|-------|-------|------|------|----|---------|---|--------|-------|--------|-------|-------|------|------|---------|---------|---|--------|-------|--------|-------|-------|------|------|----|---------|---|--------|-------|--------|-------|-------|------|------|---------|---------|----|--------|-------|--------|-------|-------|------|------|----|---------|----|--------|-------|--------|-------|-------|------|------|---------|---------|----|--------|-------|--------|-------|-------|------|------|----|---------|
| Operating Mode | 1 | Power Phase | Neutral | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Function | CTX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> Level (dBuV) Date: 2018-04-11 Time: 11:28:04 </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>Read Level</th> <th>LISN Factor</th> <th>Cable Loss</th> <th>Remark</th> <th>Pol/Phase</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.1516</td><td>36.59</td><td>-19.32</td><td>55.91</td><td>26.51</td><td>9.92</td><td>0.16</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>2</td><td>0.1516</td><td>49.08</td><td>-16.83</td><td>65.91</td><td>39.00</td><td>9.92</td><td>0.16</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>3</td><td>0.1712</td><td>37.27</td><td>-17.63</td><td>54.90</td><td>27.20</td><td>9.92</td><td>0.15</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>4</td><td>0.1712</td><td>46.24</td><td>-18.66</td><td>64.90</td><td>36.17</td><td>9.92</td><td>0.15</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>5</td><td>0.2924</td><td>34.33</td><td>-16.13</td><td>50.46</td><td>24.35</td><td>9.92</td><td>0.06</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>6</td><td>0.2924</td><td>40.89</td><td>-19.57</td><td>60.46</td><td>30.91</td><td>9.92</td><td>0.06</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>7</td><td>0.4019</td><td>29.98</td><td>-17.83</td><td>47.81</td><td>20.05</td><td>9.92</td><td>0.01</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>8</td><td>0.4019</td><td>36.73</td><td>-21.08</td><td>57.81</td><td>26.80</td><td>9.92</td><td>0.01</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>9</td><td>3.2813</td><td>23.35</td><td>-22.65</td><td>46.00</td><td>13.25</td><td>9.97</td><td>0.13</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>10</td><td>3.2813</td><td>32.07</td><td>-23.93</td><td>56.00</td><td>21.97</td><td>9.97</td><td>0.13</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>11</td><td>3.7183</td><td>22.98</td><td>-23.02</td><td>46.00</td><td>12.89</td><td>9.98</td><td>0.11</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>12</td><td>3.7183</td><td>32.42</td><td>-23.58</td><td>56.00</td><td>22.33</td><td>9.98</td><td>0.11</td><td>QP</td><td>NEUTRAL</td></tr> </tbody> </table> | | | | | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark | Pol/Phase | | MHz | dBuV | dB | dBuV | dBuV | dB | dB | | | 1 | 0.1516 | 36.59 | -19.32 | 55.91 | 26.51 | 9.92 | 0.16 | Average | NEUTRAL | 2 | 0.1516 | 49.08 | -16.83 | 65.91 | 39.00 | 9.92 | 0.16 | QP | NEUTRAL | 3 | 0.1712 | 37.27 | -17.63 | 54.90 | 27.20 | 9.92 | 0.15 | Average | NEUTRAL | 4 | 0.1712 | 46.24 | -18.66 | 64.90 | 36.17 | 9.92 | 0.15 | QP | NEUTRAL | 5 | 0.2924 | 34.33 | -16.13 | 50.46 | 24.35 | 9.92 | 0.06 | Average | NEUTRAL | 6 | 0.2924 | 40.89 | -19.57 | 60.46 | 30.91 | 9.92 | 0.06 | QP | NEUTRAL | 7 | 0.4019 | 29.98 | -17.83 | 47.81 | 20.05 | 9.92 | 0.01 | Average | NEUTRAL | 8 | 0.4019 | 36.73 | -21.08 | 57.81 | 26.80 | 9.92 | 0.01 | QP | NEUTRAL | 9 | 3.2813 | 23.35 | -22.65 | 46.00 | 13.25 | 9.97 | 0.13 | Average | NEUTRAL | 10 | 3.2813 | 32.07 | -23.93 | 56.00 | 21.97 | 9.97 | 0.13 | QP | NEUTRAL | 11 | 3.7183 | 22.98 | -23.02 | 46.00 | 12.89 | 9.98 | 0.11 | Average | NEUTRAL | 12 | 3.7183 | 32.42 | -23.58 | 56.00 | 22.33 | 9.98 | 0.11 | QP | NEUTRAL |
| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark | Pol/Phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0.1516 | 36.59 | -19.32 | 55.91 | 26.51 | 9.92 | 0.16 | Average | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0.1516 | 49.08 | -16.83 | 65.91 | 39.00 | 9.92 | 0.16 | QP | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0.1712 | 37.27 | -17.63 | 54.90 | 27.20 | 9.92 | 0.15 | Average | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 0.1712 | 46.24 | -18.66 | 64.90 | 36.17 | 9.92 | 0.15 | QP | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0.2924 | 34.33 | -16.13 | 50.46 | 24.35 | 9.92 | 0.06 | Average | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 0.2924 | 40.89 | -19.57 | 60.46 | 30.91 | 9.92 | 0.06 | QP | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0.4019 | 29.98 | -17.83 | 47.81 | 20.05 | 9.92 | 0.01 | Average | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 0.4019 | 36.73 | -21.08 | 57.81 | 26.80 | 9.92 | 0.01 | QP | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 3.2813 | 23.35 | -22.65 | 46.00 | 13.25 | 9.97 | 0.13 | Average | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 3.2813 | 32.07 | -23.93 | 56.00 | 21.97 | 9.97 | 0.13 | QP | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 3.7183 | 22.98 | -23.02 | 46.00 | 12.89 | 9.98 | 0.11 | Average | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 3.7183 | 32.42 | -23.58 | 56.00 | 22.33 | 9.98 | 0.11 | QP | NEUTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



AC Power-line Conducted Emissions Result

Appendix A





EBW Result

Appendix B

Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz | - | - | - | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | 9.025M | 14.843M | 14M8G1D | 8.55M | 13.668M |
| 802.11g_Nss1,(6Mbps)_2TX | 16.325M | 16.667M | 16M7D1D | 16.3M | 16.392M |
| 802.11n HT20_Nss1,(MCS0)_2TX | 17.575M | 17.716M | 17M7D1D | 16.9M | 17.566M |
| 802.11n HT40_Nss1,(MCS0)_2TX | 36.3M | 36.182M | 36M2D1D | 35M | 35.932M |

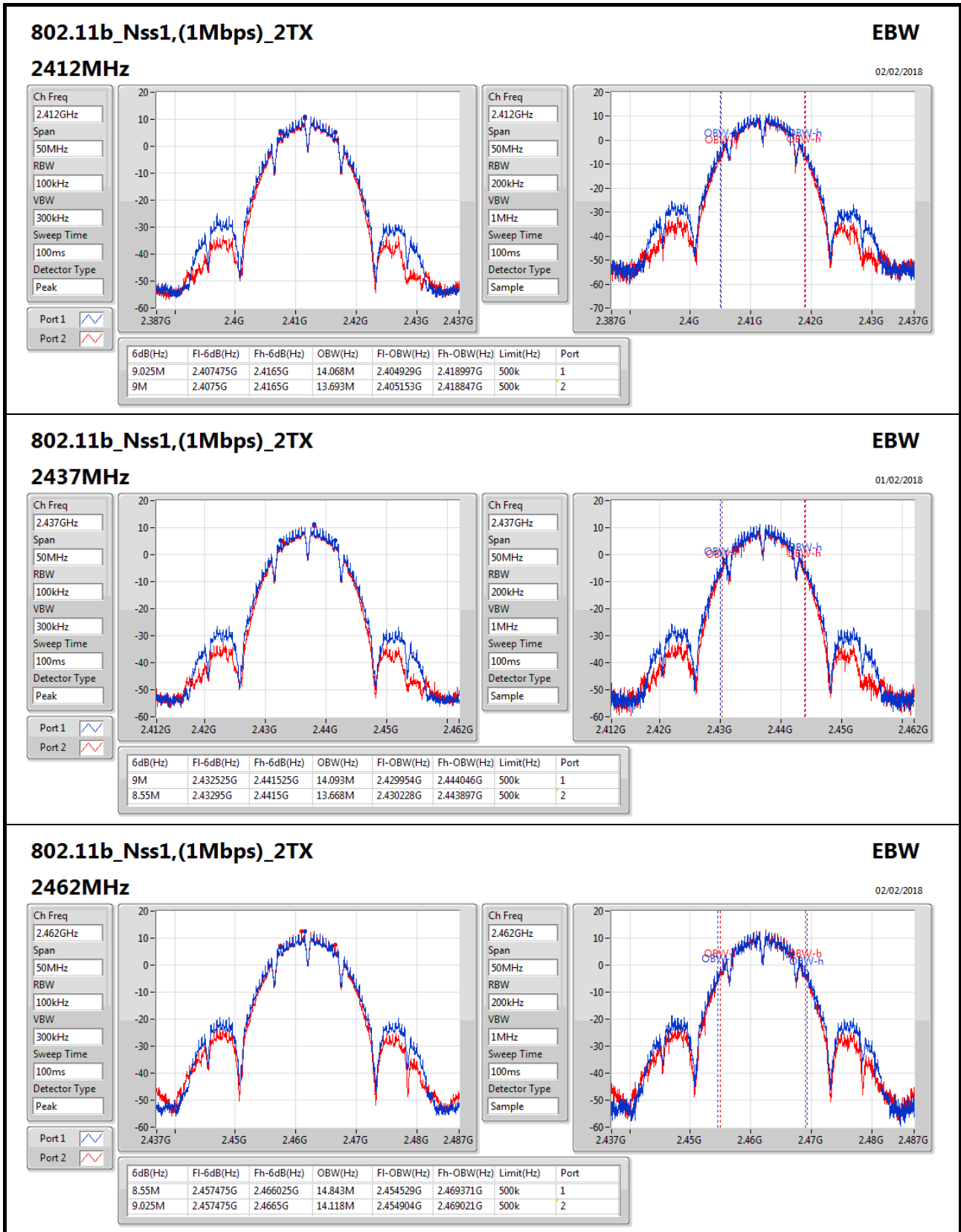
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

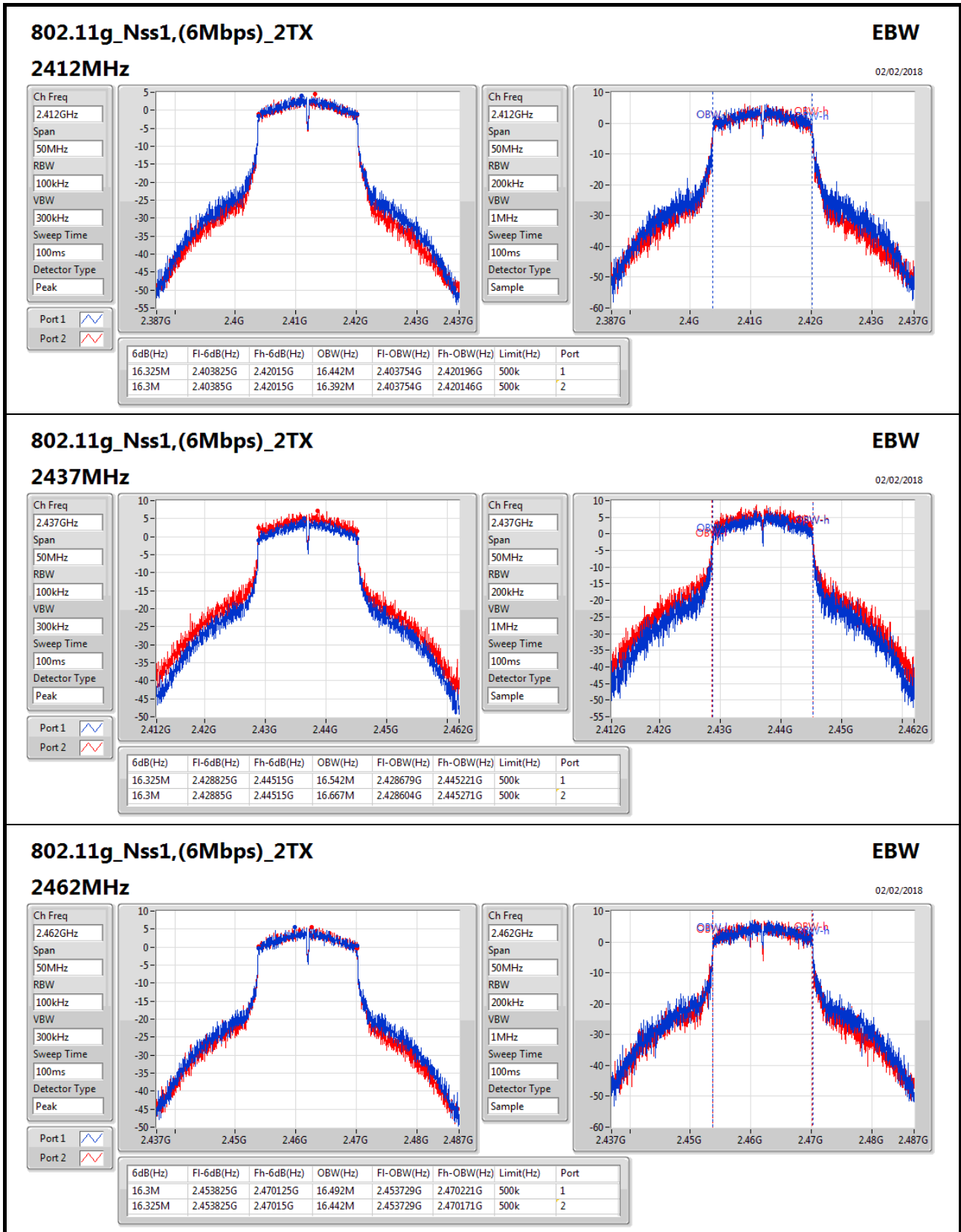
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) | Port 2-N dB (Hz) | Port 2-OBW (Hz) |
|------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 9.025M | 14.068M | 9M | 13.693M |
| 2437MHz | Pass | 500k | 9M | 14.093M | 8.55M | 13.668M |
| 2462MHz | Pass | 500k | 8.55M | 14.843M | 9.025M | 14.118M |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 16.325M | 16.442M | 16.3M | 16.392M |
| 2437MHz | Pass | 500k | 16.325M | 16.542M | 16.3M | 16.667M |
| 2462MHz | Pass | 500k | 16.3M | 16.492M | 16.325M | 16.442M |
| 802.11n HT20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 17.525M | 17.591M | 17.55M | 17.566M |
| 2437MHz | Pass | 500k | 17.575M | 17.666M | 17.525M | 17.716M |
| 2462MHz | Pass | 500k | 17.575M | 17.591M | 16.9M | 17.566M |
| 802.11n HT40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 500k | 35M | 36.132M | 35.05M | 36.082M |
| 2437MHz | Pass | 500k | 35.1M | 36.182M | 35.1M | 36.082M |
| 2452MHz | Pass | 500k | 36.3M | 36.082M | 36.05M | 35.932M |

Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;




802.11g_Nss1,(6Mbps)_2TX
EBW

02/02/2018

2462MHz

Ch Freq: 2.462GHz

Span: 50MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

Ch Freq: 2.462GHz

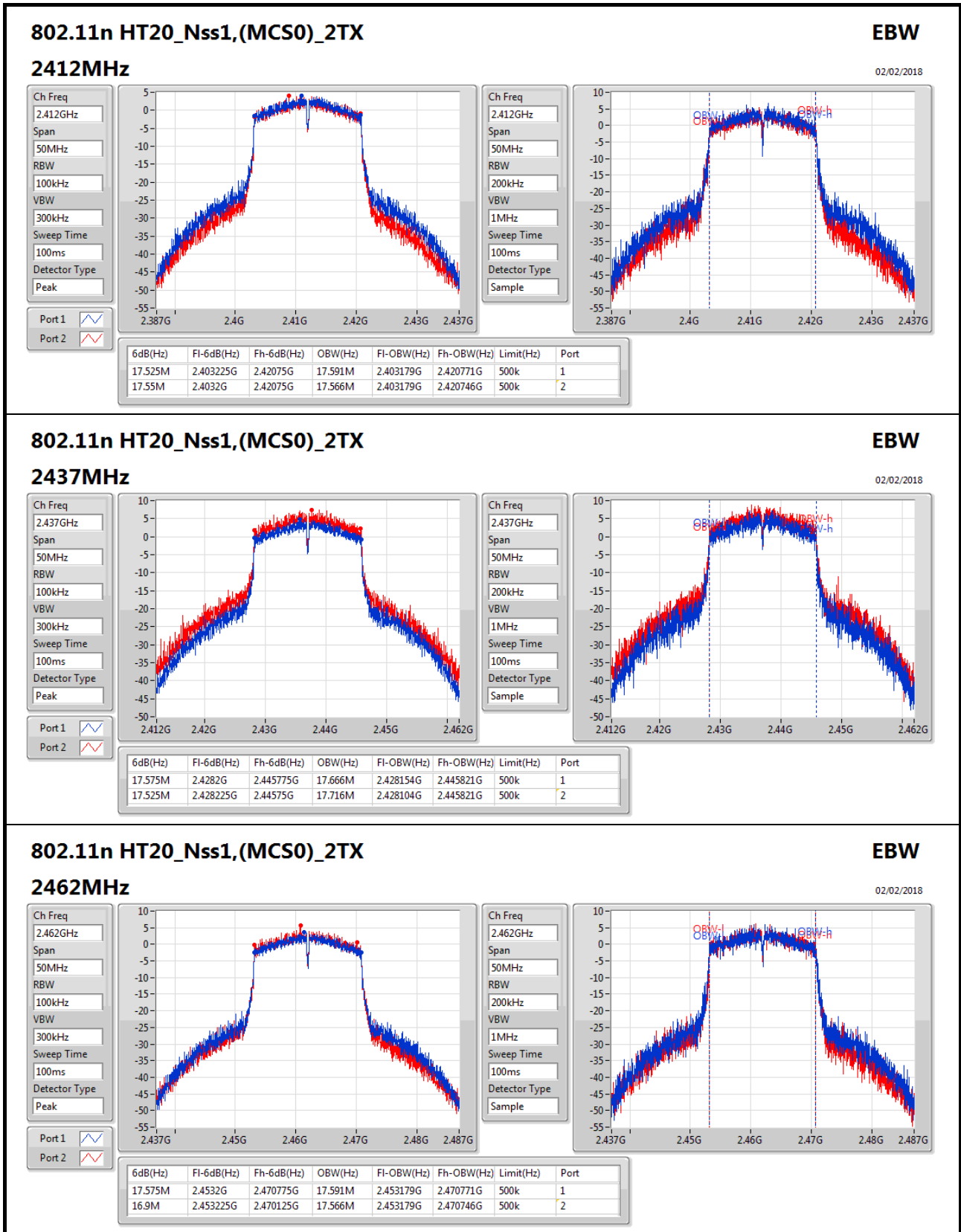
Span: 50MHz

RBW: 200kHz

VBW: 1MHz

Sweep Time: 100ms

Detector Type: Sample


802.11n HT20_Nss1,(MCS0)_2TX
EBW

02/02/2018

2462MHz

Ch Freq: 2.462GHz

Span: 50MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

Ch Freq: 2.462GHz

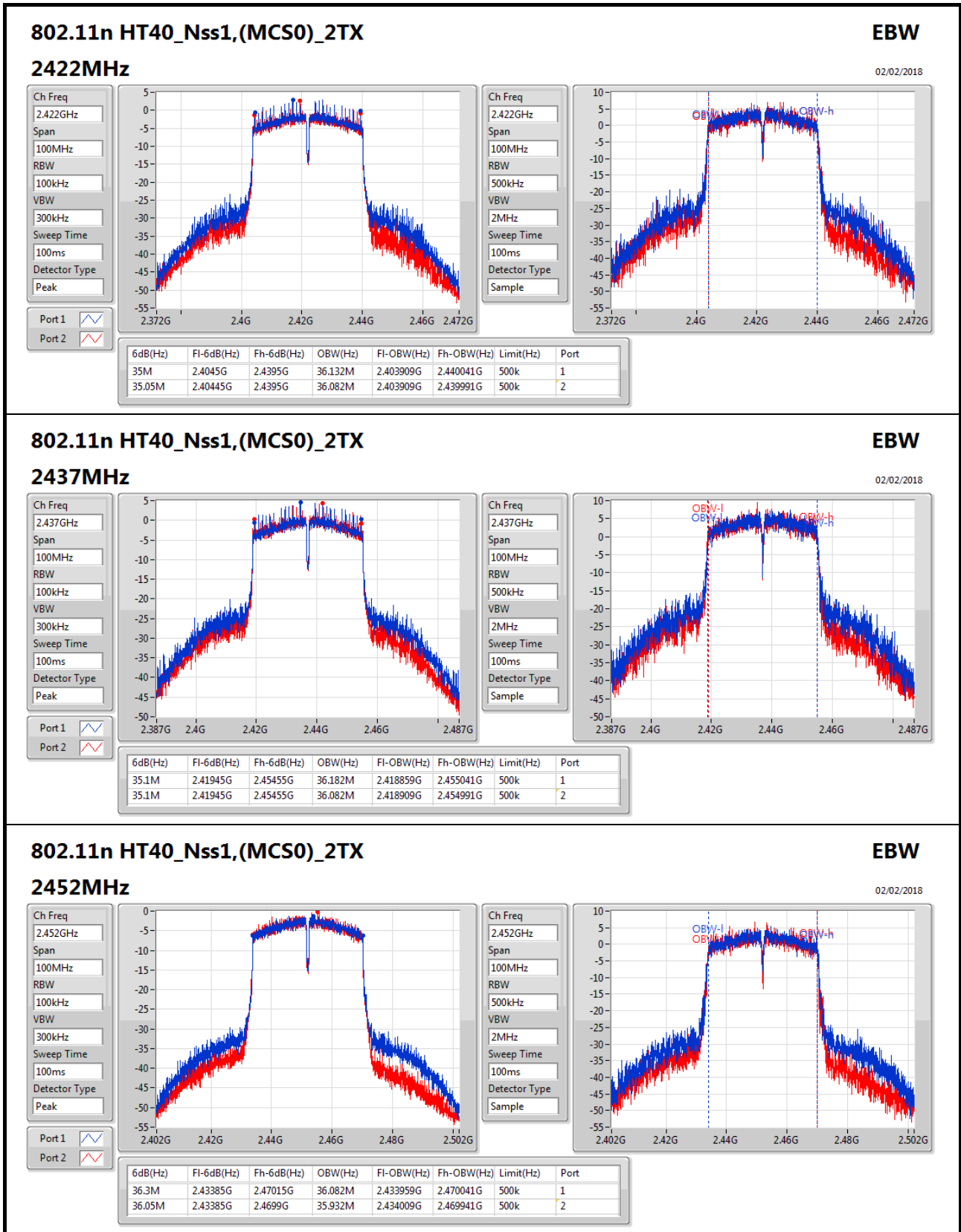
Span: 50MHz

RBW: 200kHz

VBW: 1MHz

Sweep Time: 100ms

Detector Type: Sample


802.11n HT40_Nss1,(MCS0)_2TX
EBW

02/02/2018

2452MHz

Ch Freq: 2.452GHz

Span: 100MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

Ch Freq: 2.452GHz

Span: 100MHz

RBW: 500kHz

VBW: 2MHz

Sweep Time: 100ms

Detector Type: Sample



AV Power Result

Appendix C

Summary

| Mode | Total Power (dBm) | Total Power (W) |
|------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | 25.32 | 0.34041 |
| 802.11g_Nss1,(6Mbps)_2TX | 23.42 | 0.21979 |
| 802.11n HT20_Nss1,(MCS0)_2TX | 23.43 | 0.22029 |
| 802.11n HT40_Nss1,(MCS0)_2TX | 22.28 | 0.16904 |

Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 3.71 | 21.65 | 21.21 | 24.45 | 30.00 |
| 2437MHz | Pass | 3.71 | 21.59 | 21.93 | 24.77 | 30.00 |
| 2462MHz | Pass | 3.71 | 22.15 | 22.46 | 25.32 | 30.00 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 3.71 | 19.33 | 19.43 | 22.39 | 30.00 |
| 2437MHz | Pass | 3.71 | 19.51 | 21.15 | 23.42 | 30.00 |
| 2457MHz | Pass | 3.71 | 19.53 | 21.05 | 23.37 | 30.00 |
| 2462MHz | Pass | 3.71 | 19.89 | 20.41 | 23.17 | 30.00 |
| 802.11n HT20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 3.71 | 18.76 | 18.85 | 21.82 | 30.00 |
| 2437MHz | Pass | 3.71 | 19.50 | 21.18 | 23.43 | 30.00 |
| 2457MHz | Pass | 3.71 | 19.44 | 20.94 | 23.26 | 30.00 |
| 2462MHz | Pass | 3.71 | 17.64 | 18.41 | 21.05 | 30.00 |
| 802.11n HT40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 3.71 | 17.36 | 17.78 | 20.59 | 30.00 |
| 2427MHz | Pass | 3.71 | 18.47 | 18.65 | 21.57 | 30.00 |
| 2432MHz | Pass | 3.71 | 19.14 | 19.40 | 22.28 | 30.00 |
| 2437MHz | Pass | 3.71 | 18.31 | 19.46 | 21.93 | 30.00 |
| 2442MHz | Pass | 3.71 | 16.65 | 16.91 | 19.79 | 30.00 |
| 2447MHz | Pass | 3.71 | 16.58 | 16.93 | 19.77 | 30.00 |
| 2452MHz | Pass | 3.71 | 16.64 | 17.04 | 19.85 | 30.00 |

DG = Directional Gain; Port X = Port X output power



PSD Result

Appendix D

Summary

| Mode | PD (dBm/RBW) |
|------------------------------|-----------------|
| 2.4-2.4835GHz | - |
| 802.11b_Nss1,(1Mbps)_2TX | 1.09 |
| 802.11g_Nss1,(6Mbps)_2TX | -1.97 |
| 802.11n HT20_Nss1,(MCS0)_2TX | -1.38 |
| 802.11n HT40_Nss1,(MCS0)_2TX | -8.01 |

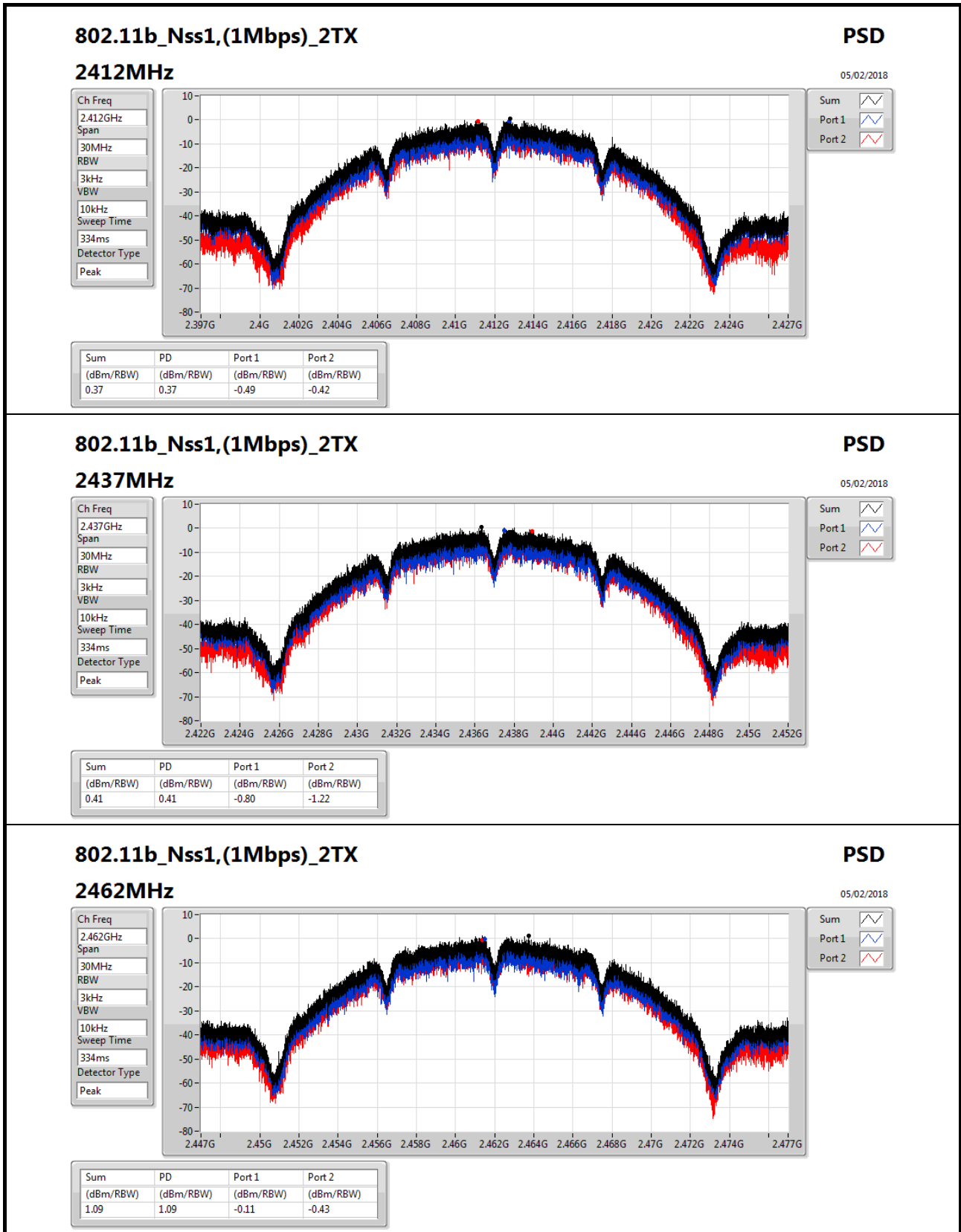
RBW=3kHz.

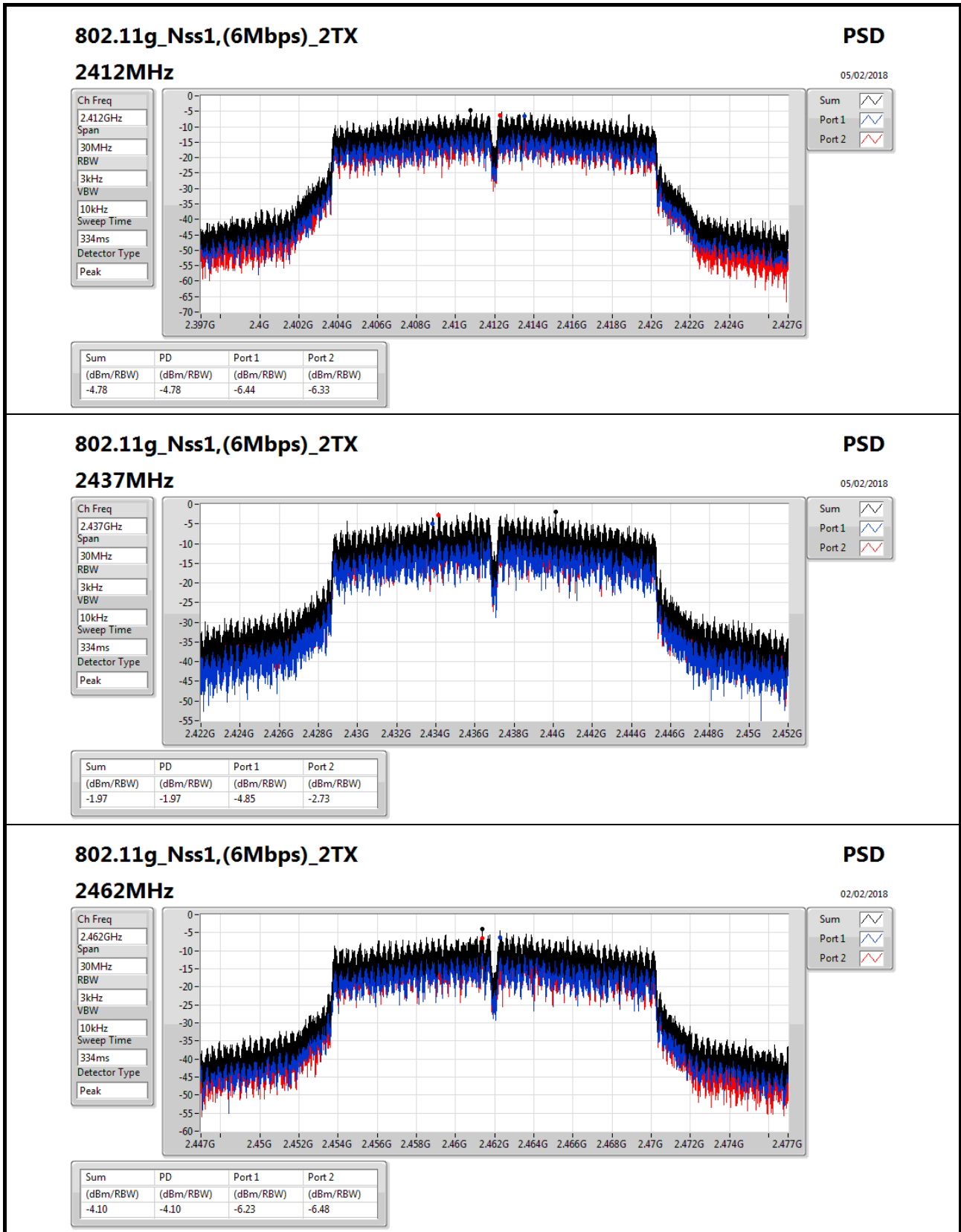
Result

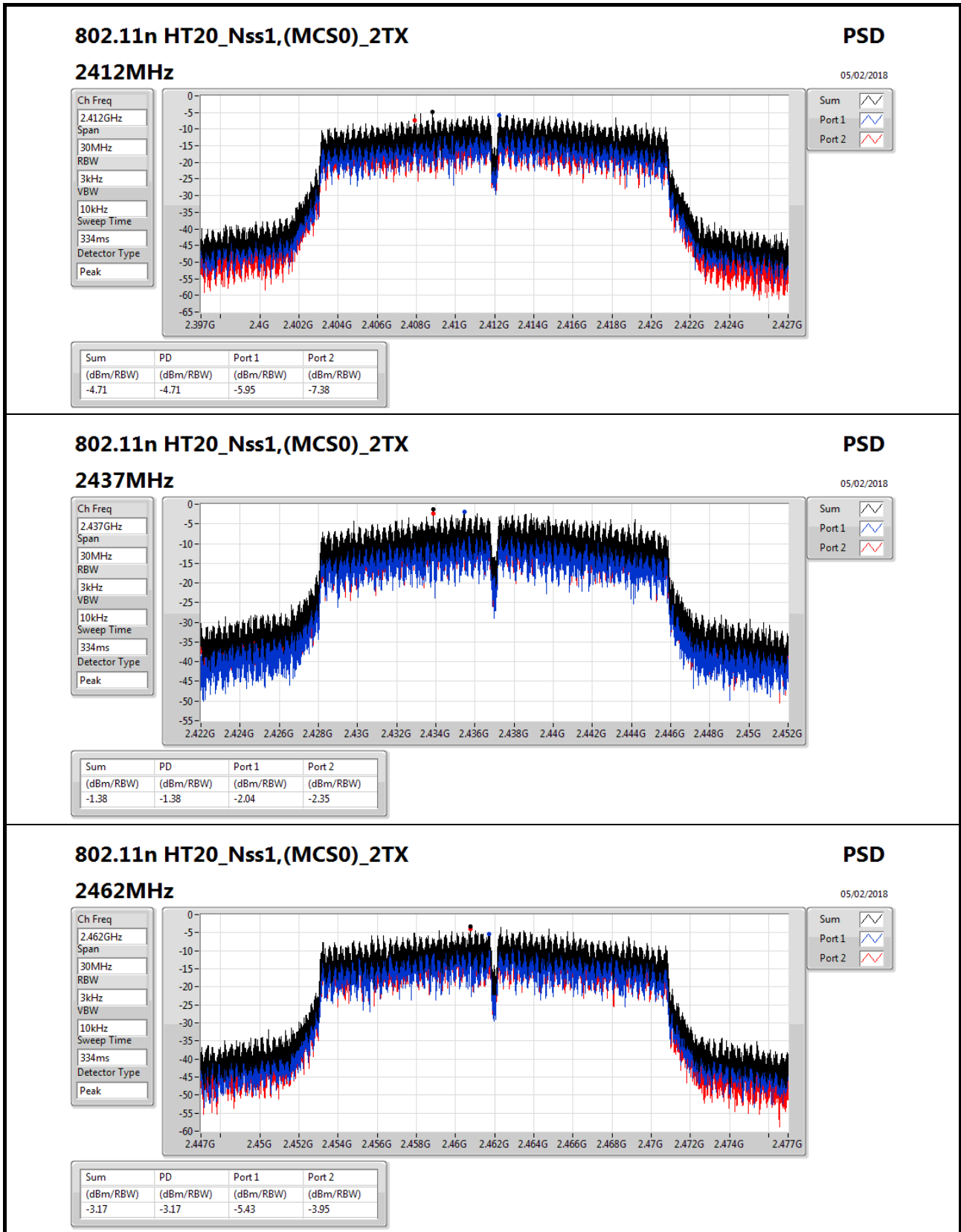
| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 6.11 | -0.49 | -0.42 | 0.37 | 7.89 |
| 2437MHz | Pass | 6.11 | -0.80 | -1.22 | 0.41 | 7.89 |
| 2462MHz | Pass | 6.11 | -0.11 | -0.43 | 1.09 | 7.89 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 6.11 | -6.44 | -6.33 | -4.78 | 7.89 |
| 2437MHz | Pass | 6.11 | -4.85 | -2.73 | -1.97 | 7.89 |
| 2462MHz | Pass | 6.11 | -6.23 | -6.48 | -4.10 | 7.89 |
| 802.11n HT20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 6.11 | -5.95 | -7.38 | -4.71 | 7.89 |
| 2437MHz | Pass | 6.11 | -2.04 | -2.35 | -1.38 | 7.89 |
| 2462MHz | Pass | 6.11 | -5.43 | -3.95 | -3.17 | 7.89 |
| 802.11n HT40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 6.11 | -10.91 | -10.46 | -9.47 | 7.89 |
| 2437MHz | Pass | 6.11 | -9.06 | -9.02 | -8.01 | 7.89 |
| 2452MHz | Pass | 6.11 | -12.24 | -12.39 | -10.75 | 7.89 |

DG = Directional Gain; RBW=3kHz;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;







802.11n HT20_Nss1,(MCS0)_2TX

2462MHz

PSD
05/02/2018

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
334ms

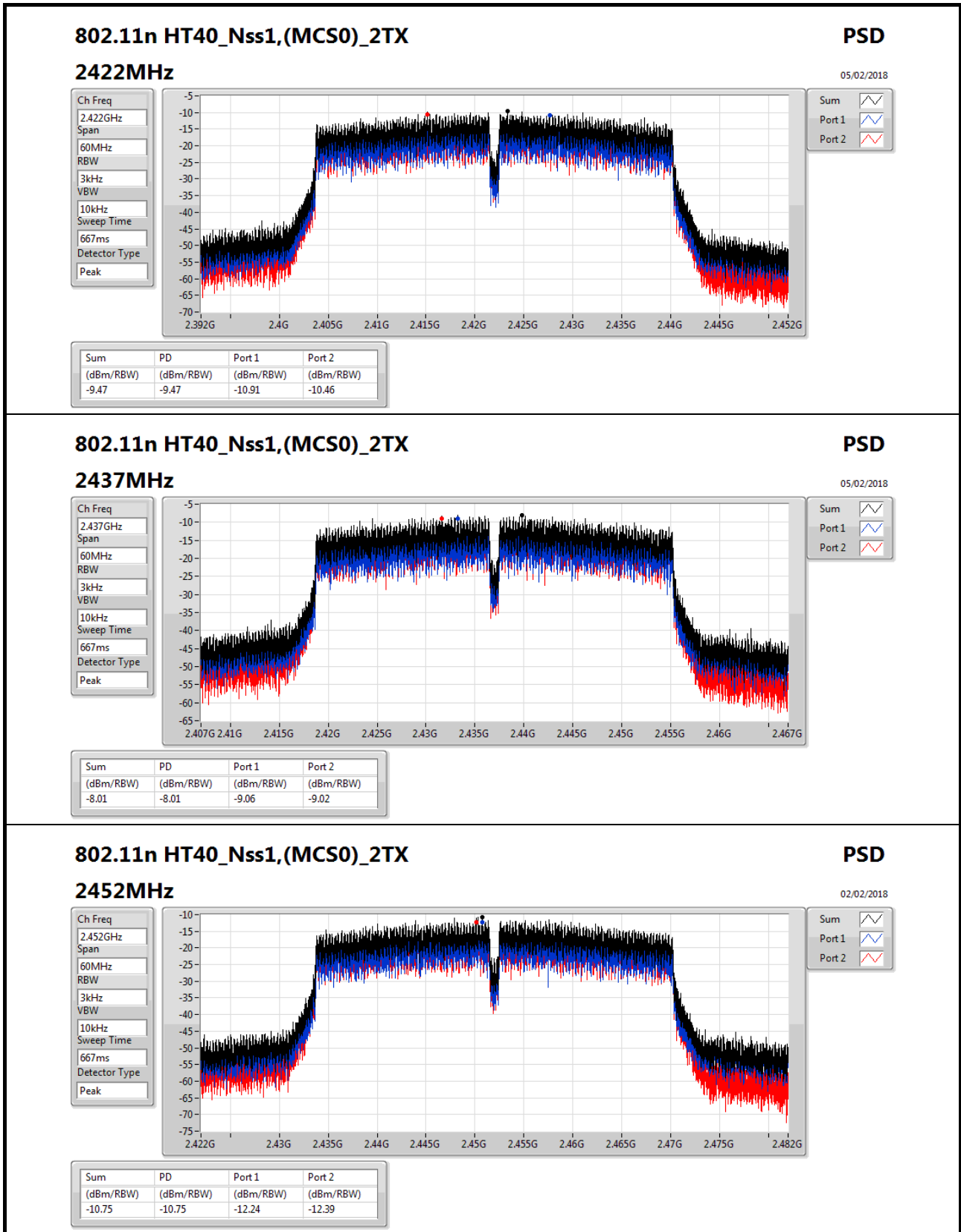
Detector Type
Peak

Sum

Port 1

Port 2

| Sum | PD | Port 1 | Port 2 |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.17 | -3.17 | -5.43 | -3.95 |





CSE Non-restricted Band Result

Appendix E

Summary

| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | Pass | 2.460454G | 11.10 | -18.90 | 2.30874G | -61.46 | 2.39904G | -26.96 | 2.49958G | -58.47 | 7.235136G | -37.66 | 1 |
| 802.11g_Nss1,(6Mbps)_2TX | Pass | 2.438243G | 7.13 | -22.87 | 2.30408G | -60.99 | 2.39984G | -23.11 | 2.48758G | -58.11 | 7.232327G | -41.86 | 1 |
| 802.11n HT20_Nss1,(MCS0)_2TX | Pass | 2.434569G | 7.09 | -22.91 | 2.30408G | -61.05 | 2.39832G | -23.39 | 2.48678G | -58.74 | 7.237946G | -44.72 | 1 |
| 802.11n HT40_Nss1,(MCS0)_2TX | Pass | 2.440748G | 4.23 | -25.77 | 2.307405G | -60.88 | 2.39952G | -25.95 | 2.4859G | -39.00 | 17.410854G | -52.52 | 1 |

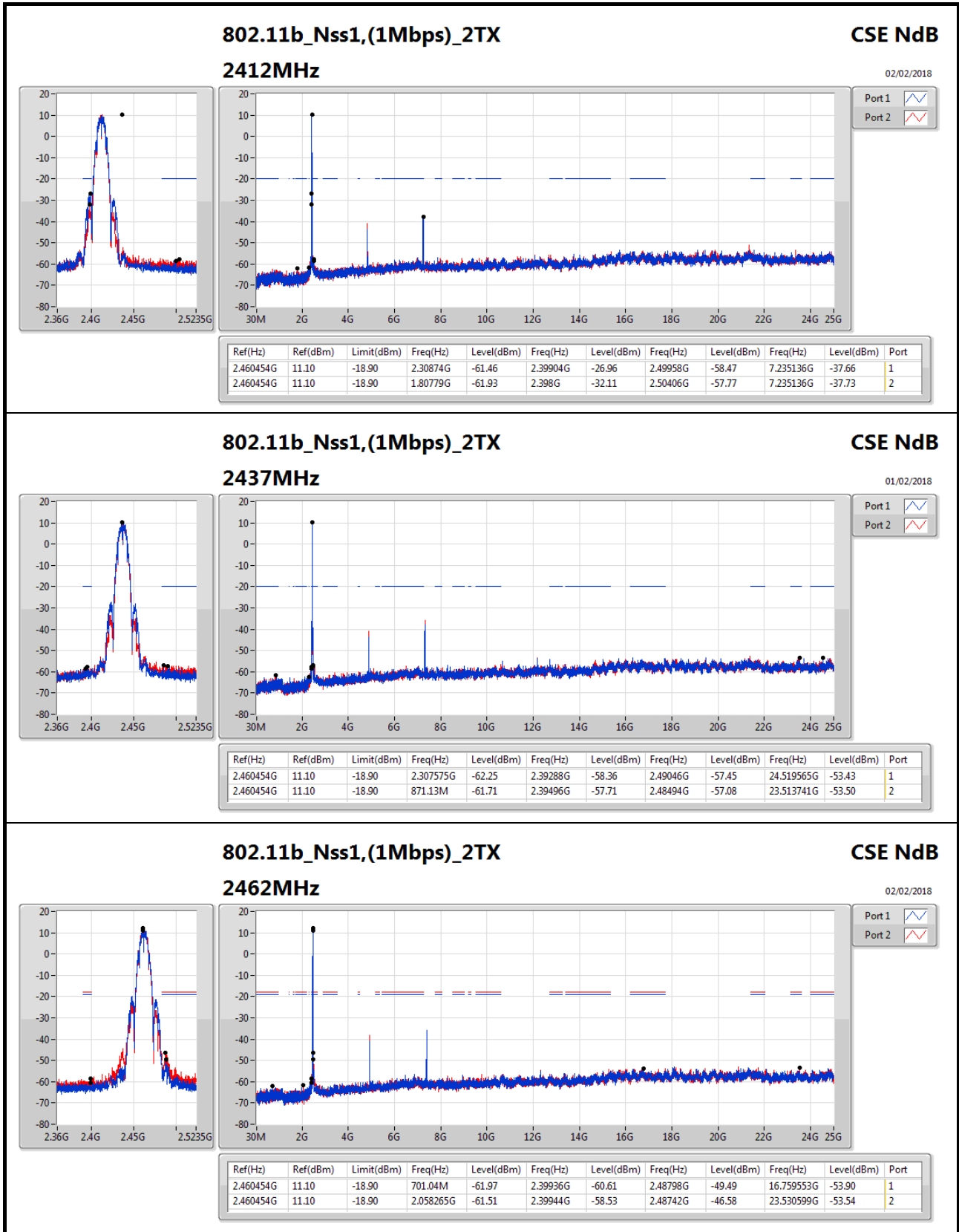
Result

| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.460454G | 11.10 | -18.90 | 2.30874G | -61.46 | 2.39904G | -26.96 | 2.49958G | -58.47 | 7.235136G | -37.66 | 1 |
| 2412MHz | Pass | 2.460454G | 11.10 | -18.90 | 1.80779G | -61.93 | 2.398G | -32.11 | 2.50406G | -57.77 | 7.235136G | -37.73 | 2 |
| 2437MHz | Pass | 2.460454G | 11.10 | -18.90 | 2.307575G | -62.25 | 2.39288G | -58.36 | 2.49046G | -57.45 | 24.519565G | -53.43 | 1 |
| 2437MHz | Pass | 2.460454G | 11.10 | -18.90 | 871.13M | -61.71 | 2.39496G | -57.71 | 2.48494G | -57.08 | 23.513741G | -53.50 | 2 |
| 2462MHz | Pass | 2.460454G | 11.10 | -18.90 | 701.04M | -61.97 | 2.39936G | -60.61 | 2.48798G | -49.49 | 16.759553G | -53.90 | 1 |
| 2462MHz | Pass | 2.460454G | 11.10 | -18.90 | 2.058265G | -61.51 | 2.39944G | -58.53 | 2.48742G | -46.58 | 23.530599G | -53.54 | 2 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.438243G | 7.13 | -22.87 | 2.30408G | -60.99 | 2.39984G | -23.11 | 2.48758G | -58.11 | 7.232327G | -41.86 | 1 |
| 2412MHz | Pass | 2.438243G | 7.13 | -22.87 | 2.302915G | -61.97 | 2.39864G | -24.54 | 2.4875G | -58.97 | 7.235136G | -43.53 | 2 |
| 2437MHz | Pass | 2.438243G | 7.13 | -22.87 | 2.307575G | -61.79 | 2.39896G | -53.79 | 2.50838G | -58.42 | 21.757765G | -53.49 | 1 |
| 2437MHz | Pass | 2.438243G | 7.13 | -22.87 | 2.309905G | -62.06 | 2.3936G | -46.75 | 2.48382G | -50.97 | 15.335105G | -53.63 | 2 |
| 2462MHz | Pass | 2.438243G | 7.13 | -22.87 | 787.25M | -62.78 | 2.39144G | -59.76 | 2.48382G | -36.01 | 16.669647G | -53.57 | 1 |
| 2462MHz | Pass | 2.438243G | 7.13 | -22.87 | 525.125M | -62.58 | 2.39008G | -58.01 | 2.48382G | -36.31 | 17.062986G | -53.34 | 2 |
| 802.11n HT20_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.434569G | 7.09 | -22.91 | 2.30408G | -61.05 | 2.39832G | -23.39 | 2.48678G | -58.74 | 7.237946G | -44.72 | 1 |
| 2412MHz | Pass | 2.434569G | 7.09 | -22.91 | 2.30408G | -61.34 | 2.39992G | -25.60 | 2.48902G | -58.59 | 7.232327G | -44.20 | 2 |
| 2437MHz | Pass | 2.434569G | 7.09 | -22.91 | 2.309905G | -62.01 | 2.39792G | -54.48 | 2.48678G | -58.11 | 16.369024G | -53.32 | 1 |
| 2437MHz | Pass | 2.434569G | 7.09 | -22.91 | 2.309905G | -61.50 | 2.39952G | -45.83 | 2.4863G | -49.42 | 21.592001G | -53.45 | 2 |
| 2462MHz | Pass | 2.434569G | 7.09 | -22.91 | 831.52M | -62.00 | 2.3936G | -58.99 | 2.48358G | -38.41 | 21.566715G | -53.74 | 1 |
| 2462MHz | Pass | 2.434569G | 7.09 | -22.91 | 734.825M | -61.80 | 2.39736G | -58.09 | 2.48414G | -38.90 | 21.409379G | -53.64 | 2 |
| 802.11n HT40_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2422MHz | Pass | 2.440748G | 4.23 | -25.77 | 2.302825G | -61.18 | 2.39968G | -25.99 | 2.48462G | -53.07 | 7.249924G | -50.69 | 1 |
| 2422MHz | Pass | 2.440748G | 4.23 | -25.77 | 2.30397G | -59.51 | 2.39296G | -26.74 | 2.48926G | -52.34 | 7.249924G | -48.66 | 2 |
| 2437MHz | Pass | 2.440748G | 4.23 | -25.77 | 2.307405G | -60.88 | 2.39952G | -25.95 | 2.4859G | -39.00 | 17.410854G | -52.52 | 1 |
| 2437MHz | Pass | 2.440748G | 4.23 | -25.77 | 2.302825G | -61.33 | 2.39936G | -29.43 | 2.49326G | -42.90 | 16.339511G | -52.19 | 2 |
| 2452MHz | Pass | 2.440748G | 4.23 | -25.77 | 1.77727G | -61.72 | 2.39792G | -50.28 | 2.48574G | -34.19 | 16.754586G | -53.01 | 1 |
| 2452MHz | Pass | 2.440748G | 4.23 | -25.77 | 2.30626G | -62.37 | 2.39744G | -52.90 | 2.48398G | -41.18 | 16.740563G | -53.43 | 2 |



CSE Non-restricted Band Result

Appendix E



802.11b_Nss1,(1Mbps)_2TX

2462MHz

CSE NdB

02/02/2018

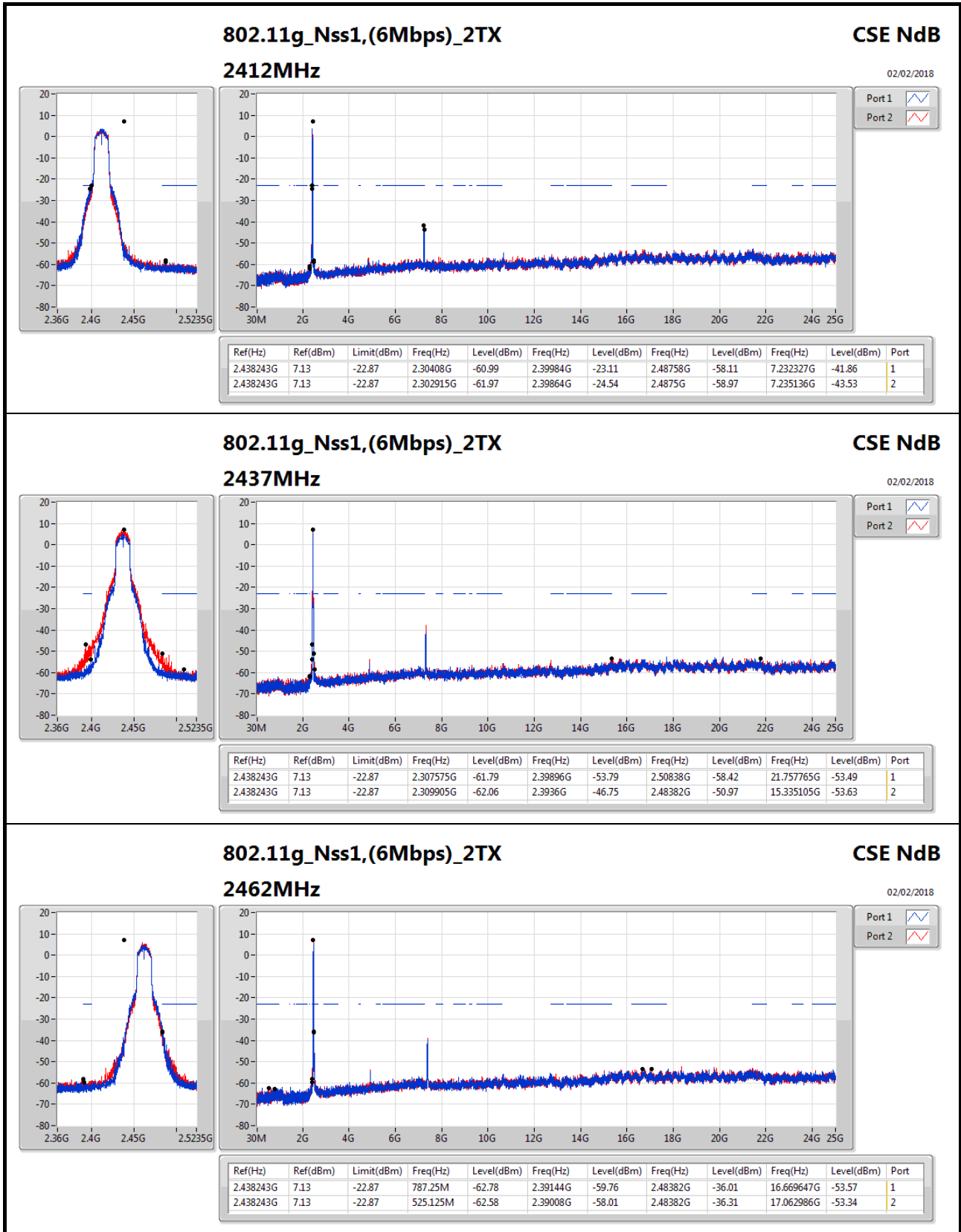
Port 1

Port 2



CSE Non-restricted Band Result

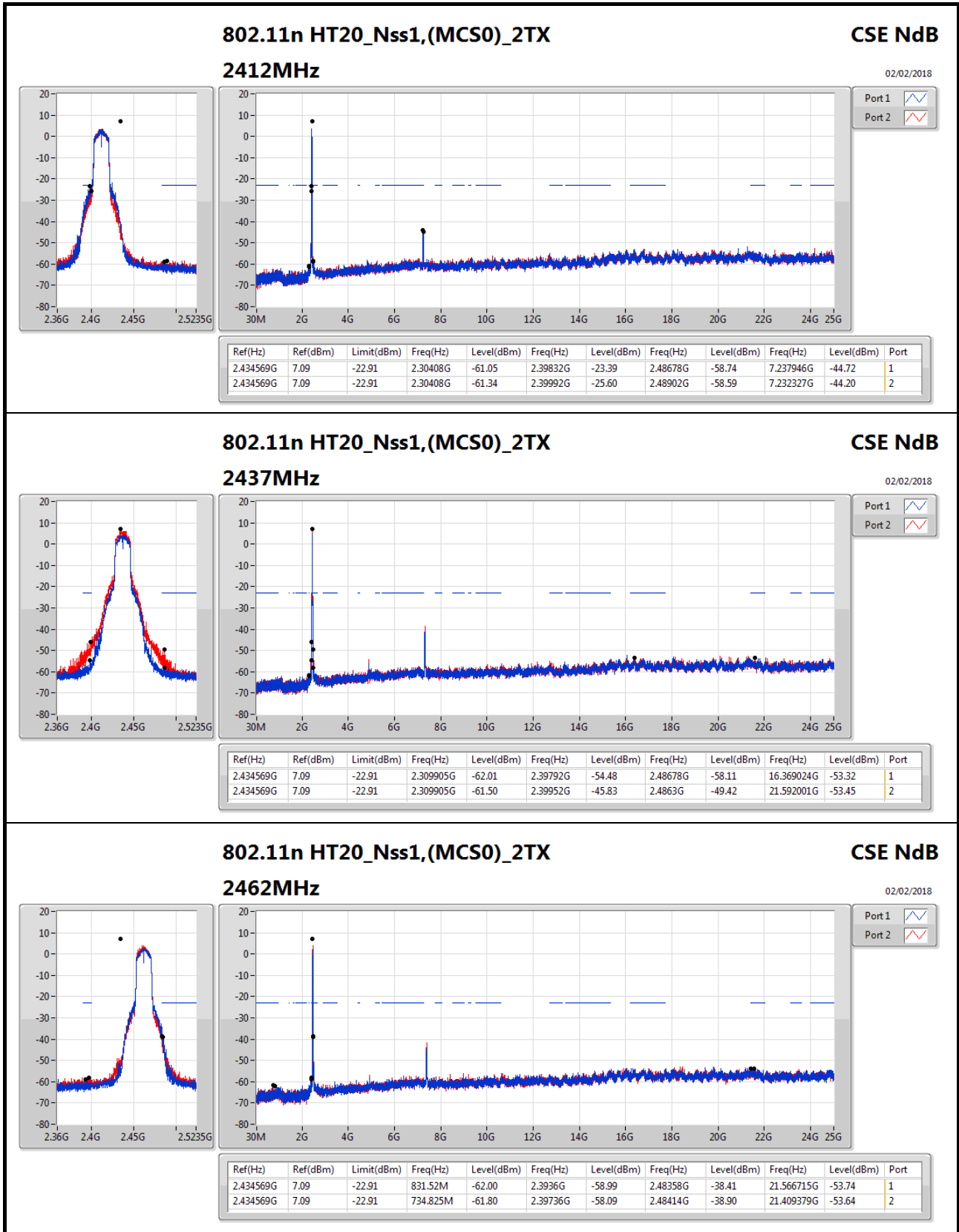
Appendix E





CSE Non-restricted Band Result

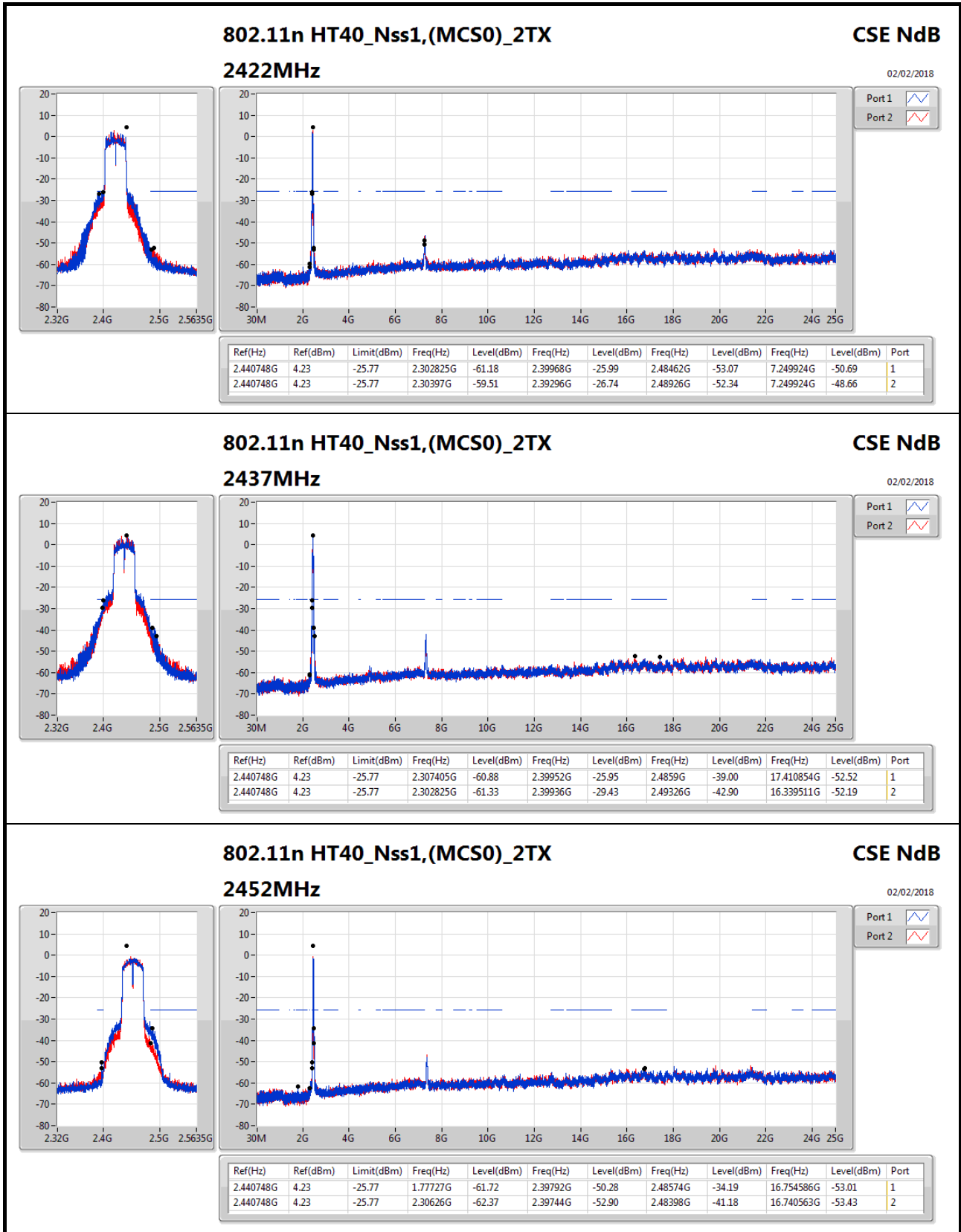
Appendix E

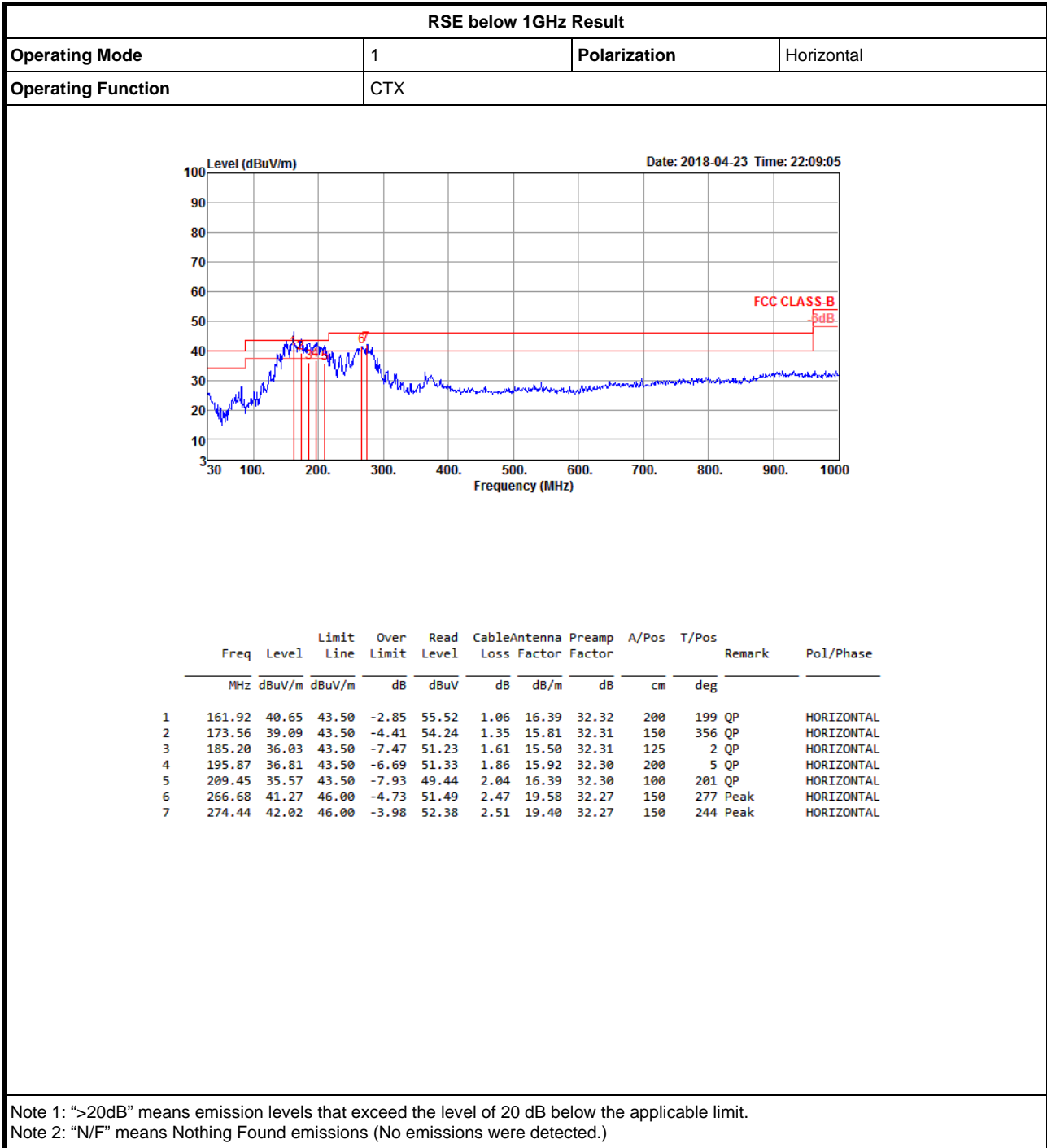




CSE Non-restricted Band Result

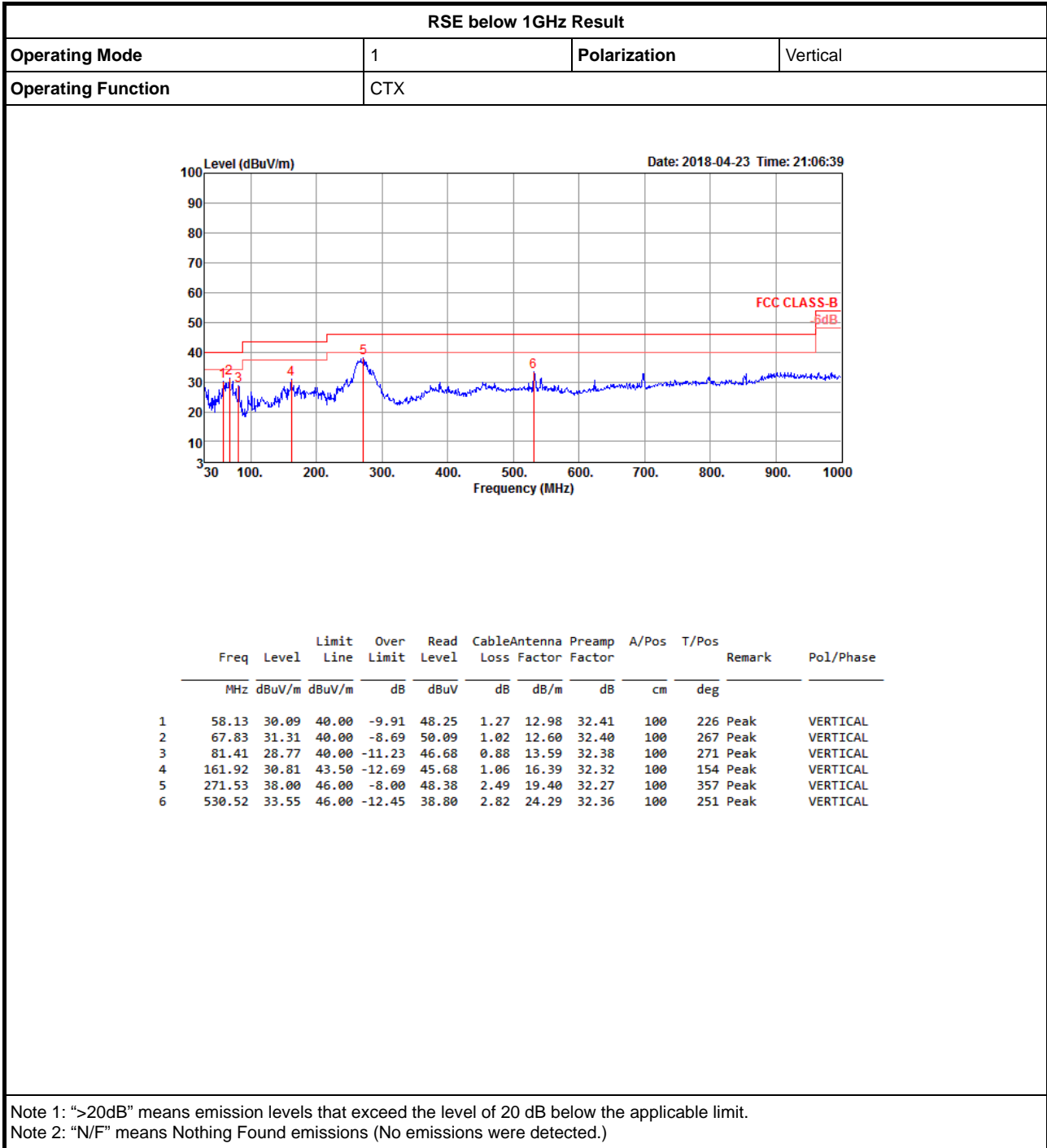
Appendix E







RSE below 1GHz Result





RSE TX above 1GHz Result

Appendix F.2

Summary

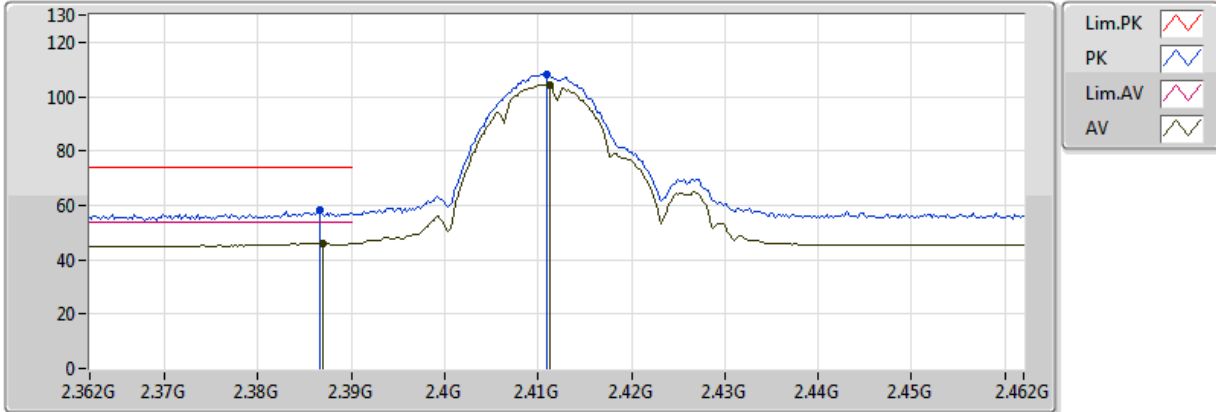
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | Pass | AV | 2.4878G | 53.98 | 54.00 | -0.02 | 33.19 | 3 | Horizontal | 202 | 2.53 | - |



802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

02/04/2018



20180402
EUT_Y_2TX
Setting 21
04-L-2
FSP(100142)

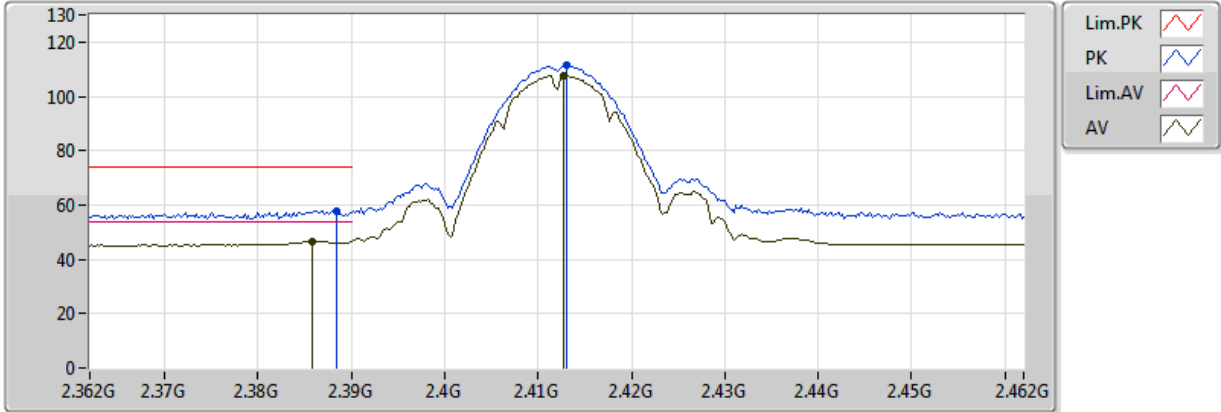
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.3866G | 58.37 | 74.00 | -15.63 | 33.16 | 3 | Vertical | 126 | 2.25 | - |
| AV | 2.387G | 46.18 | 54.00 | -7.82 | 33.16 | 3 | Vertical | 126 | 2.25 | - |
| PK | 2.411G | 108.21 | Inf | -Inf | 33.17 | 3 | Vertical | 126 | 2.25 | - |
| AV | 2.4112G | 104.41 | Inf | -Inf | 33.17 | 3 | Vertical | 126 | 2.25 | - |



802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

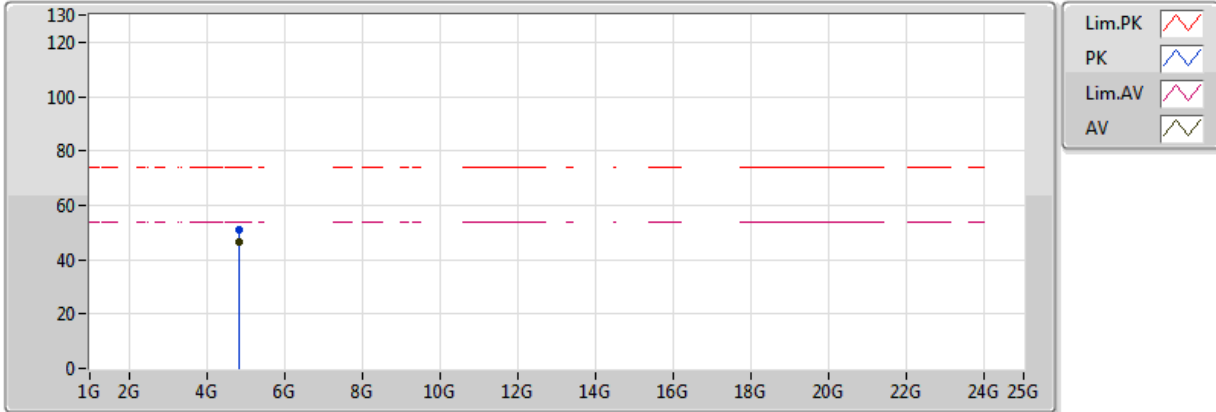
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.3884G | 57.96 | 74.00 | -16.04 | 33.17 | 3 | Horizontal | 209 | 2.38 | - |
| AV | 2.3858G | 46.69 | 54.00 | -7.31 | 33.16 | 3 | Horizontal | 209 | 2.38 | - |
| PK | 2.413G | 111.57 | Inf | -Inf | 33.17 | 3 | Horizontal | 209 | 2.38 | - |
| AV | 2.4128G | 107.57 | Inf | -Inf | 33.17 | 3 | Horizontal | 209 | 2.38 | - |



802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

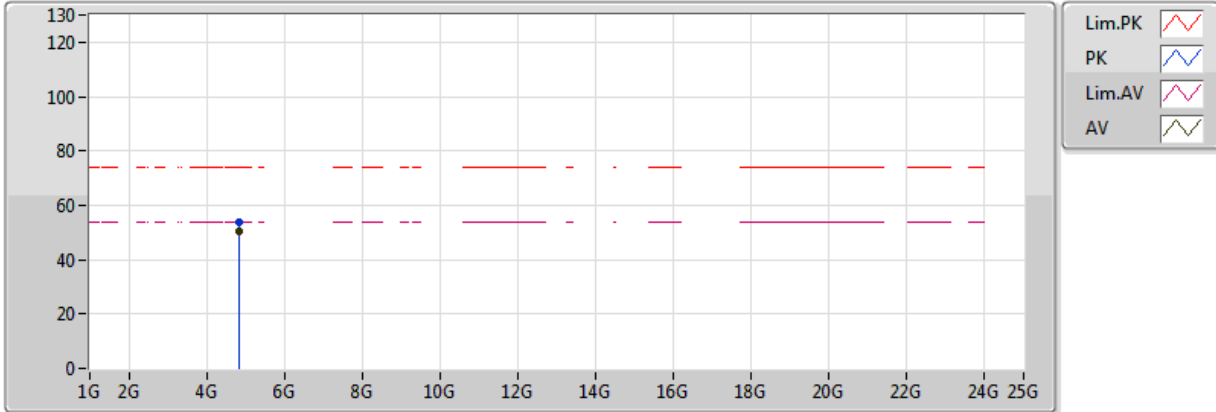
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 4.824G | 51.15 | 74.00 | -22.85 | 5.97 | 3 | Vertical | 101 | 2.04 | - |
| AV | 4.82396G | 46.37 | 54.00 | -7.63 | 5.97 | 3 | Vertical | 101 | 2.04 | - |



802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

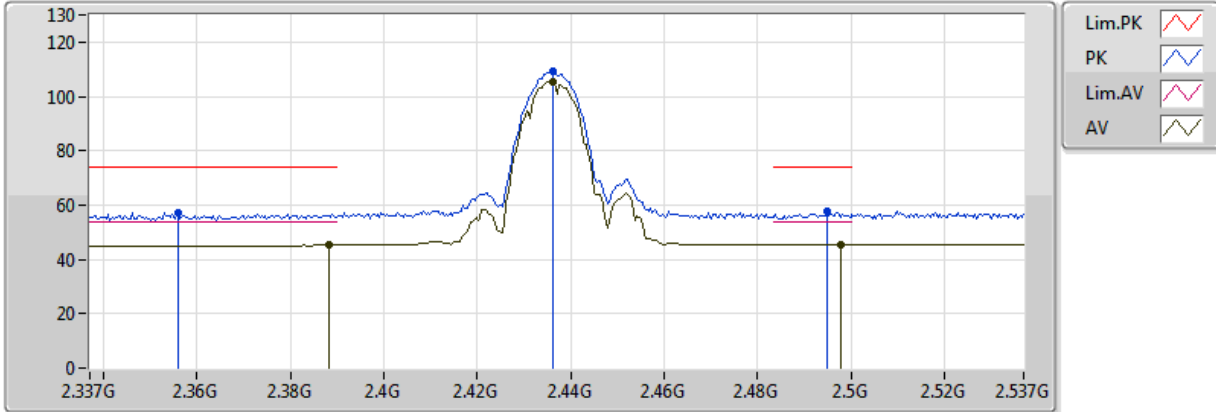
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 4.82392G | 53.78 | 74.00 | -20.22 | 5.97 | 3 | Horizontal | 352 | 1.10 | - |
| AV | 4.824G | 50.22 | 54.00 | -3.78 | 5.97 | 3 | Horizontal | 352 | 1.10 | - |



802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

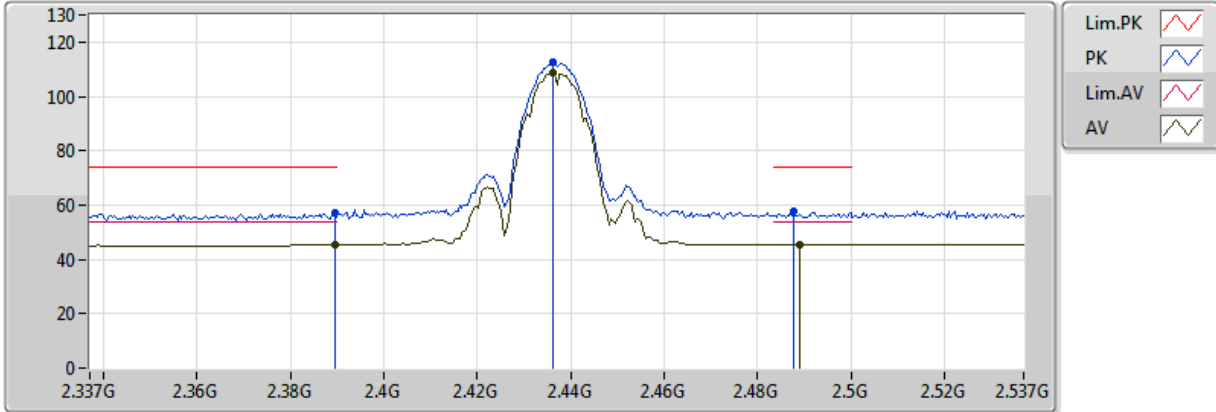
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.3558G | 57.30 | 74.00 | -16.70 | 33.15 | 3 | Vertical | 125 | 2.78 | - |
| AV | 2.3882G | 45.21 | 54.00 | -8.79 | 33.17 | 3 | Vertical | 125 | 2.78 | - |
| PK | 2.4362G | 109.36 | Inf | -Inf | 33.18 | 3 | Vertical | 125 | 2.78 | - |
| AV | 2.4362G | 105.50 | Inf | -Inf | 33.18 | 3 | Vertical | 125 | 2.78 | - |
| PK | 2.495G | 57.45 | 74.00 | -16.55 | 33.19 | 3 | Vertical | 125 | 2.78 | - |
| AV | 2.4978G | 45.40 | 54.00 | -8.60 | 33.19 | 3 | Vertical | 125 | 2.78 | - |



802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

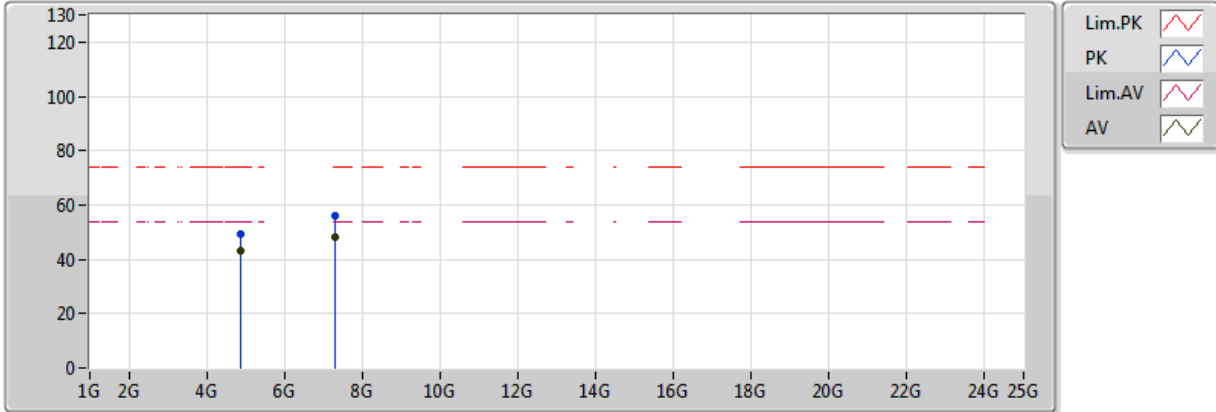
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 2.3894G | 57.06 | 74.00 | -16.94 | 33.17 | 3 | Horizontal | 41 | 2.30 | - |
| AV | 2.3894G | 45.35 | 54.00 | -8.65 | 33.17 | 3 | Horizontal | 41 | 2.30 | - |
| PK | 2.4362G | 112.37 | Inf | -Inf | 33.18 | 3 | Horizontal | 41 | 2.30 | - |
| AV | 2.4362G | 108.68 | Inf | -Inf | 33.18 | 3 | Horizontal | 41 | 2.30 | - |
| PK | 2.4878G | 57.81 | 74.00 | -16.19 | 33.19 | 3 | Horizontal | 41 | 2.30 | - |
| AV | 2.489G | 45.52 | 54.00 | -8.48 | 33.19 | 3 | Horizontal | 41 | 2.30 | - |



802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

02/04/2018



20180402
 EUT Y_2TX
 Setting 21
 04-L-2
 FSP(100142)

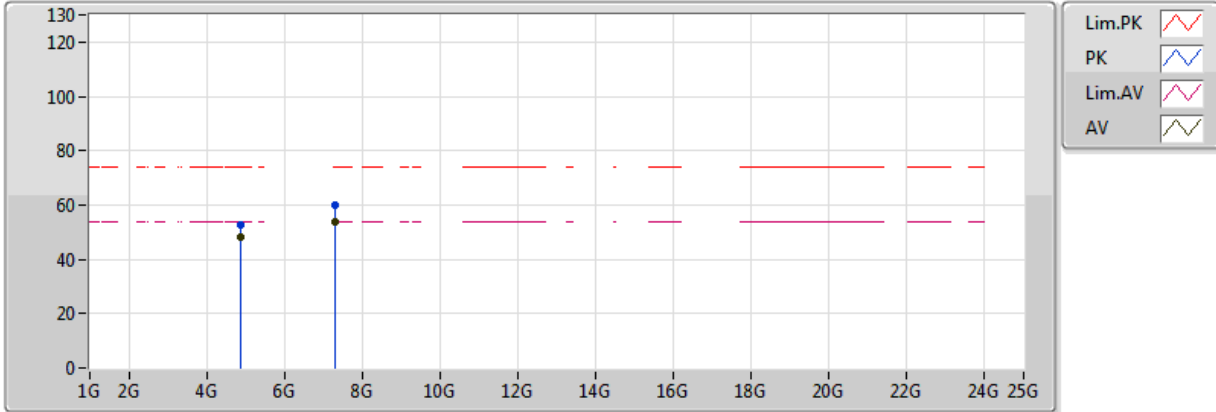
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 4.87396G | 49.26 | 74.00 | -24.74 | 6.08 | 3 | Vertical | 110 | 2.34 | - |
| AV | 4.874G | 43.01 | 54.00 | -10.99 | 6.08 | 3 | Vertical | 110 | 2.34 | - |
| PK | 7.31284G | 55.97 | 74.00 | -18.03 | 10.97 | 3 | Vertical | 320 | 1.50 | - |
| AV | 7.31172G | 47.92 | 54.00 | -6.08 | 10.97 | 3 | Vertical | 320 | 1.50 | - |



802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

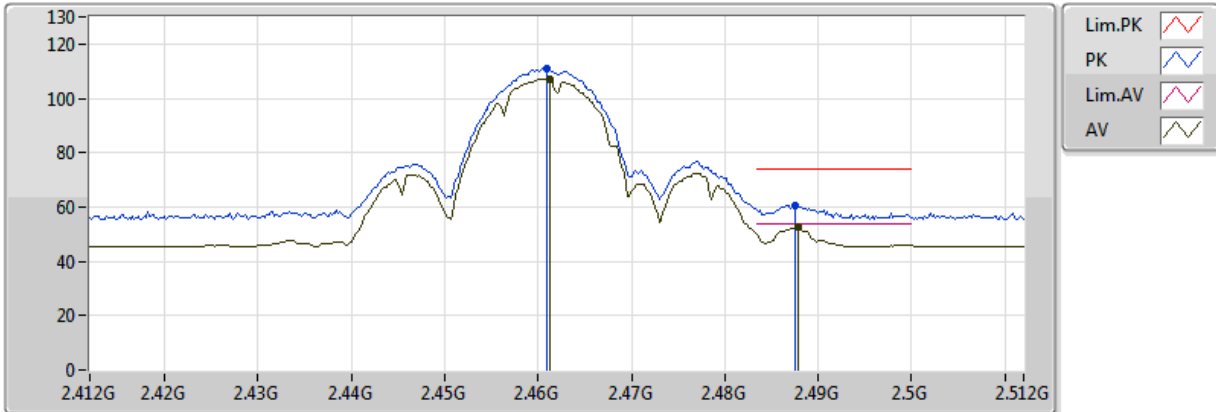
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 4.874G | 52.41 | 74.00 | -21.59 | 6.08 | 3 | Horizontal | 357 | 1.50 | - |
| AV | 4.87396G | 48.05 | 54.00 | -5.95 | 6.08 | 3 | Horizontal | 357 | 1.50 | - |
| PK | 7.31192G | 59.95 | 74.00 | -14.05 | 10.97 | 3 | Horizontal | 293 | 2.39 | - |
| AV | 7.3102G | 53.56 | 54.00 | -0.44 | 10.97 | 3 | Horizontal | 293 | 2.39 | - |



802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

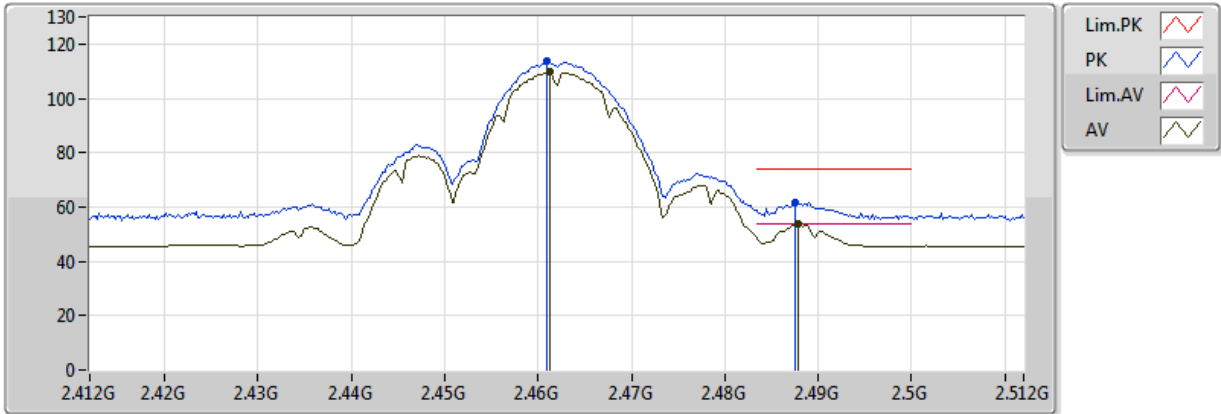
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 2.461G | 111.00 | Inf | -Inf | 33.18 | 3 | Vertical | 126 | 2.71 | - |
| AV | 2.4612G | 107.21 | Inf | -Inf | 33.18 | 3 | Vertical | 126 | 2.71 | - |
| PK | 2.4876G | 60.78 | 74.00 | -13.22 | 33.19 | 3 | Vertical | 126 | 2.71 | - |
| AV | 2.4878G | 52.69 | 54.00 | -1.31 | 33.19 | 3 | Vertical | 126 | 2.71 | - |



802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

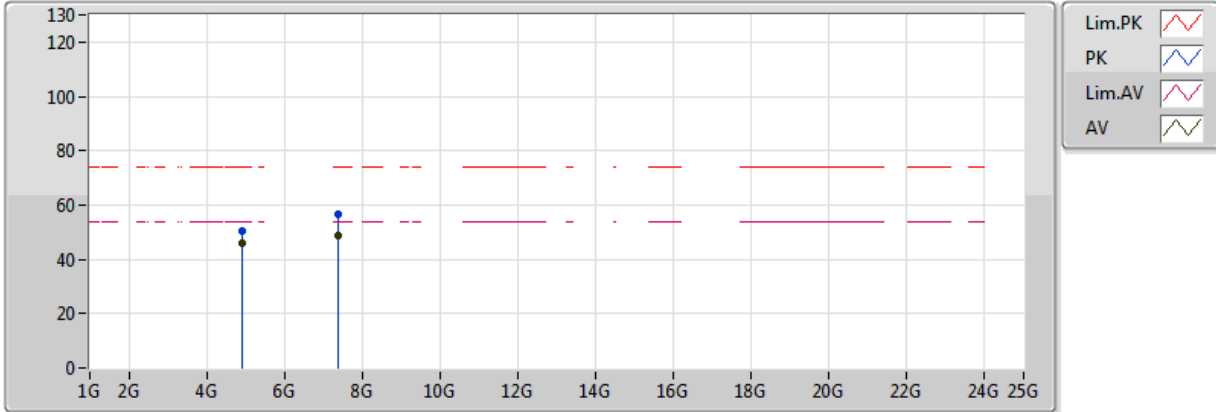
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.461G | 113.48 | Inf | -Inf | 33.18 | 3 | Horizontal | 202 | 2.53 | - |
| AV | 2.4612G | 109.71 | Inf | -Inf | 33.18 | 3 | Horizontal | 202 | 2.53 | - |
| PK | 2.4876G | 61.83 | 74.00 | -12.17 | 33.19 | 3 | Horizontal | 202 | 2.53 | - |
| AV | 2.4878G | 53.98 | 54.00 | -0.02 | 33.19 | 3 | Horizontal | 202 | 2.53 | - |



802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

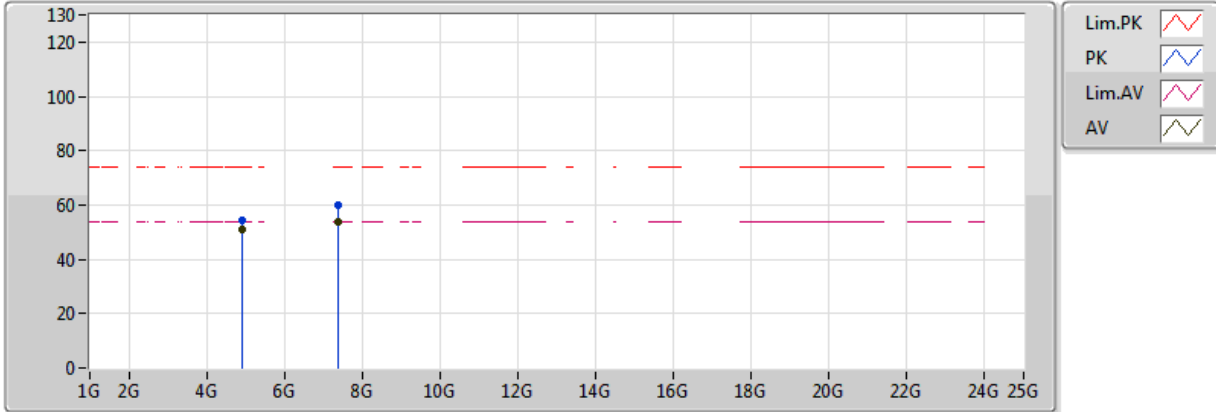
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 4.92396G | 50.69 | 74.00 | -23.31 | 6.19 | 3 | Vertical | 197 | 1.12 | - |
| AV | 4.92396G | 46.10 | 54.00 | -7.90 | 6.19 | 3 | Vertical | 197 | 1.12 | - |
| PK | 7.38676G | 56.54 | 74.00 | -17.46 | 10.99 | 3 | Vertical | 207 | 2.97 | - |
| AV | 7.38668G | 48.71 | 54.00 | -5.29 | 10.99 | 3 | Vertical | 207 | 2.97 | - |



802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

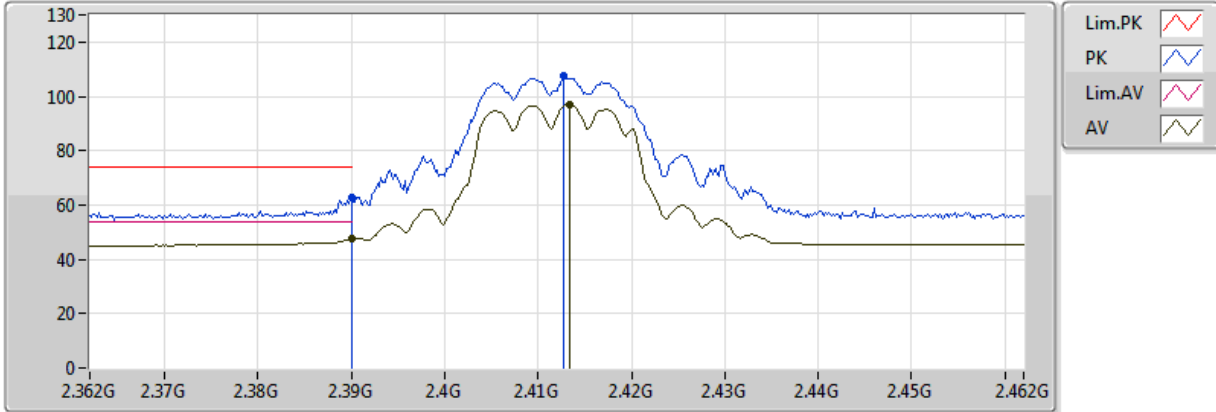
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 4.924G | 54.32 | 74.00 | -19.68 | 6.19 | 3 | Horizontal | 359 | 2.79 | - |
| AV | 4.92396G | 50.77 | 54.00 | -3.23 | 6.19 | 3 | Horizontal | 359 | 2.79 | - |
| PK | 7.38508G | 59.91 | 74.00 | -14.09 | 10.99 | 3 | Horizontal | 287 | 2.44 | - |
| AV | 7.38524G | 53.97 | 54.00 | -0.03 | 10.99 | 3 | Horizontal | 287 | 2.44 | - |



802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 20
04-L-2
FSP(100142)

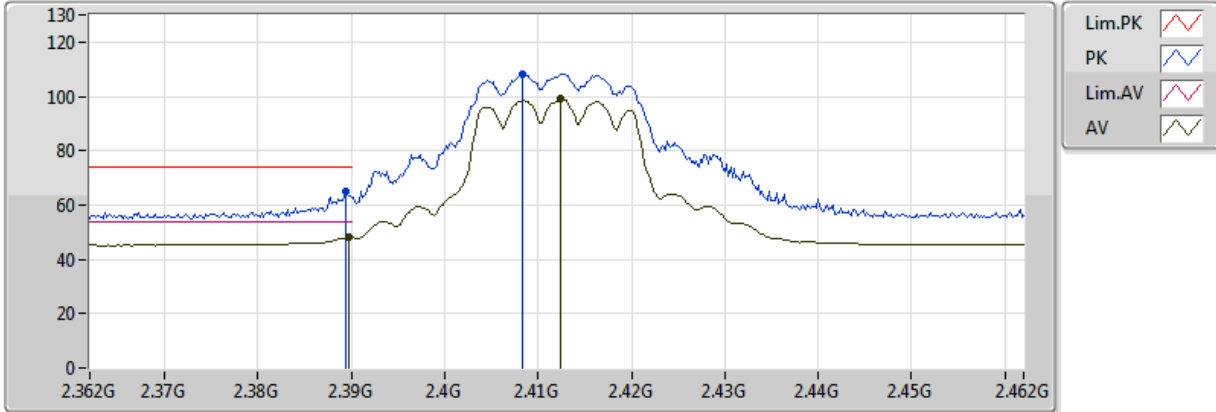
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 2.389998G | 62.52 | 74.00 | -11.48 | 33.17 | 3 | Vertical | 126 | 2.58 | - |
| AV | 2.389998G | 47.61 | 54.00 | -6.39 | 33.17 | 3 | Vertical | 126 | 2.58 | - |
| PK | 2.4128G | 107.69 | Inf | -Inf | 33.17 | 3 | Vertical | 126 | 2.58 | - |
| AV | 2.4134G | 96.97 | Inf | -Inf | 33.17 | 3 | Vertical | 126 | 2.58 | - |



802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 20
04-L-2
FSP(100142)

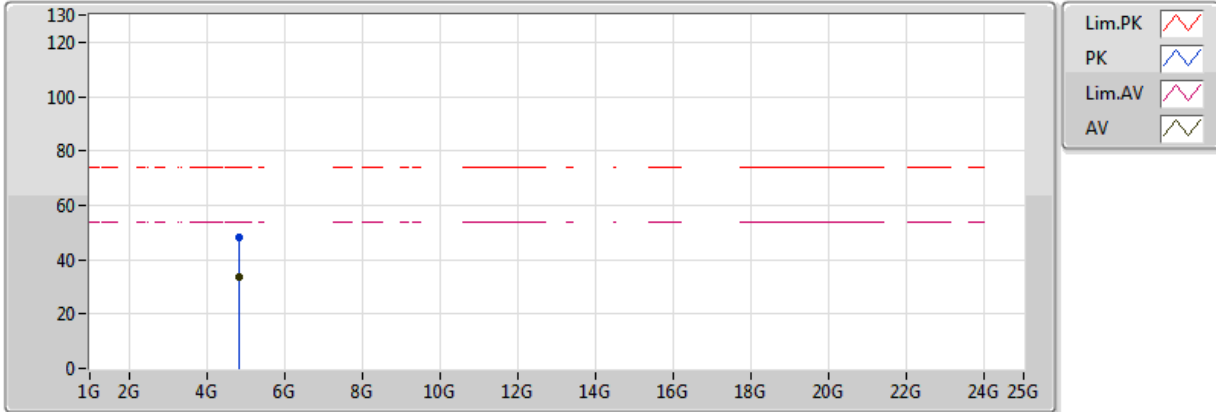
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.3894G | 64.90 | 74.00 | -9.10 | 33.17 | 3 | Horizontal | 209 | 2.41 | - |
| AV | 2.3898G | 48.06 | 54.00 | -5.94 | 33.17 | 3 | Horizontal | 209 | 2.41 | - |
| PK | 2.4084G | 108.29 | Inf | -Inf | 33.17 | 3 | Horizontal | 209 | 2.41 | - |
| AV | 2.4124G | 99.03 | Inf | -Inf | 33.17 | 3 | Horizontal | 209 | 2.41 | - |



802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 20
04-L-2
FSP(100142)

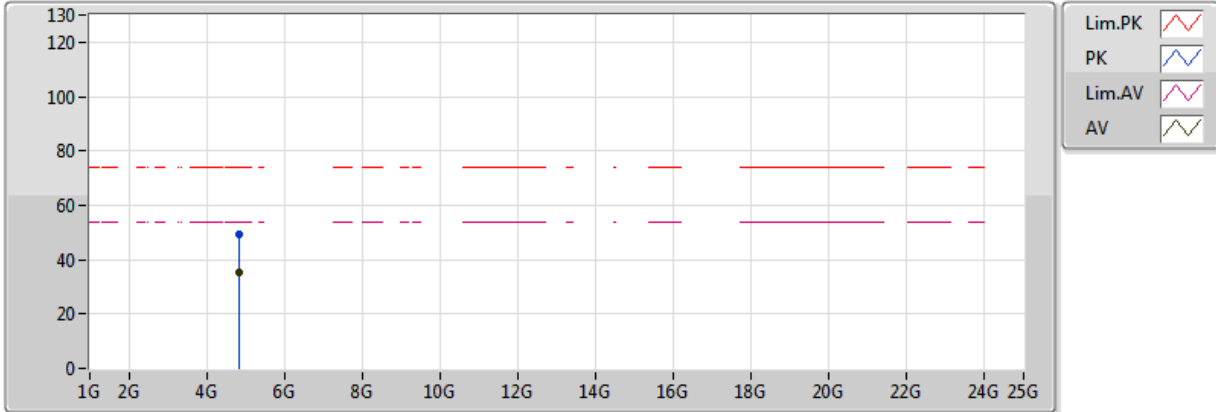
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 4.82412G | 48.33 | 74.00 | -25.67 | 5.97 | 3 | Vertical | 113 | 2.97 | - |
| AV | 4.82372G | 33.67 | 54.00 | -20.33 | 5.97 | 3 | Vertical | 113 | 2.97 | - |



802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 20
04-L-2
FSP(100142)

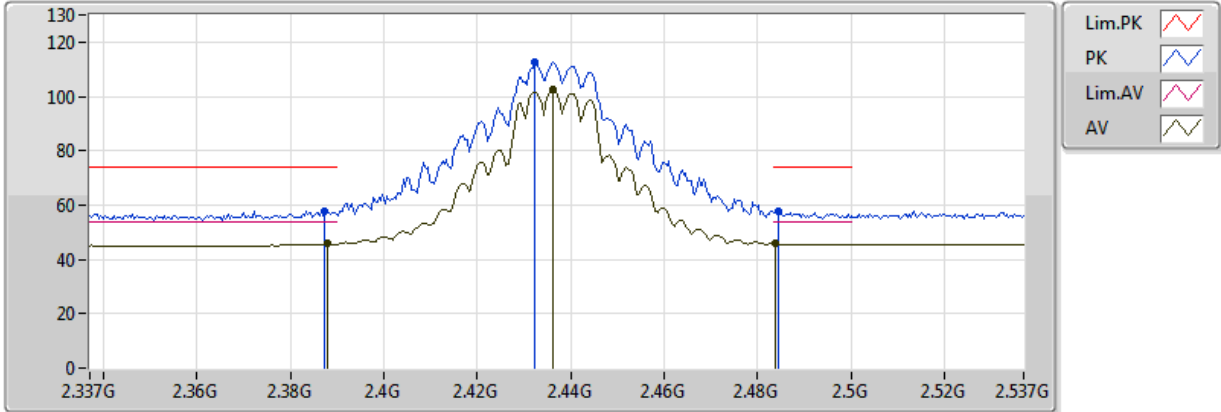
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 4.82676G | 49.33 | 74.00 | -24.67 | 5.98 | 3 | Horizontal | 357 | 1.48 | - |
| AV | 4.82324G | 35.13 | 54.00 | -18.87 | 5.97 | 3 | Horizontal | 357 | 1.48 | - |



802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

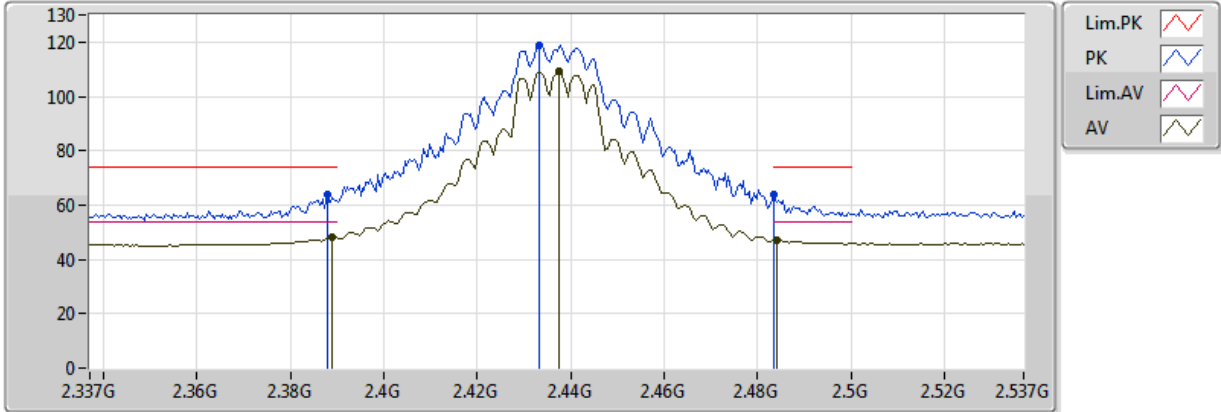
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 2.3874G | 57.94 | 74.00 | -16.06 | 33.16 | 3 | Vertical | 123 | 2.27 | - |
| AV | 2.3878G | 45.82 | 54.00 | -8.18 | 33.16 | 3 | Vertical | 123 | 2.27 | - |
| PK | 2.4322G | 112.73 | Inf | -Inf | 33.18 | 3 | Vertical | 123 | 2.27 | - |
| AV | 2.4362G | 102.69 | Inf | -Inf | 33.18 | 3 | Vertical | 123 | 2.27 | - |
| PK | 2.4846G | 57.99 | 74.00 | -16.01 | 33.18 | 3 | Vertical | 123 | 2.27 | - |
| AV | 2.4838G | 45.71 | 54.00 | -8.29 | 33.18 | 3 | Vertical | 123 | 2.27 | - |



802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

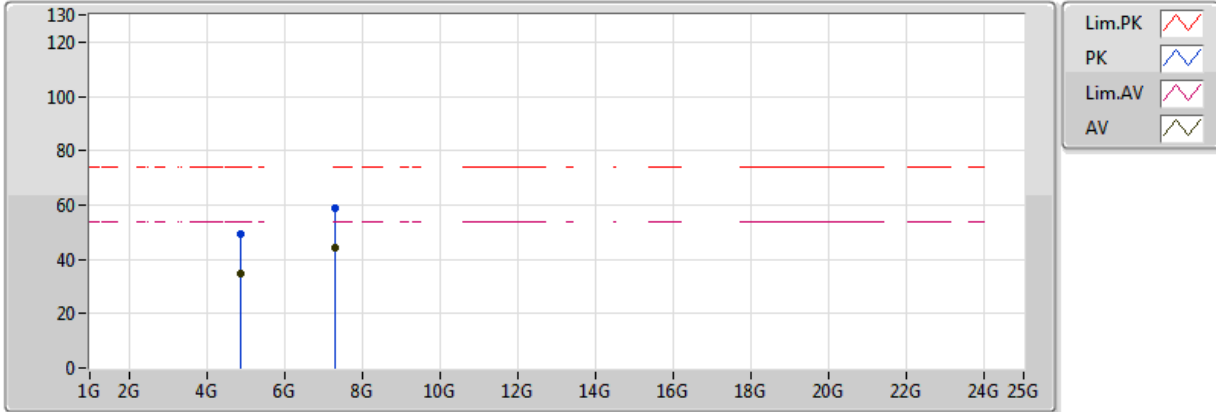
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.3878G | 63.89 | 74.00 | -10.11 | 33.16 | 3 | Horizontal | 288 | 2.37 | - |
| AV | 2.389G | 48.24 | 54.00 | -5.76 | 33.17 | 3 | Horizontal | 288 | 2.37 | - |
| PK | 2.4334G | 118.71 | Inf | -Inf | 33.18 | 3 | Horizontal | 288 | 2.37 | - |
| AV | 2.4374G | 109.13 | Inf | -Inf | 33.18 | 3 | Horizontal | 288 | 2.37 | - |
| PK | 2.483502G | 64.00 | 74.00 | -10.00 | 33.18 | 3 | Horizontal | 288 | 2.37 | - |
| AV | 2.4842G | 47.16 | 54.00 | -6.84 | 33.18 | 3 | Horizontal | 288 | 2.37 | - |



802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

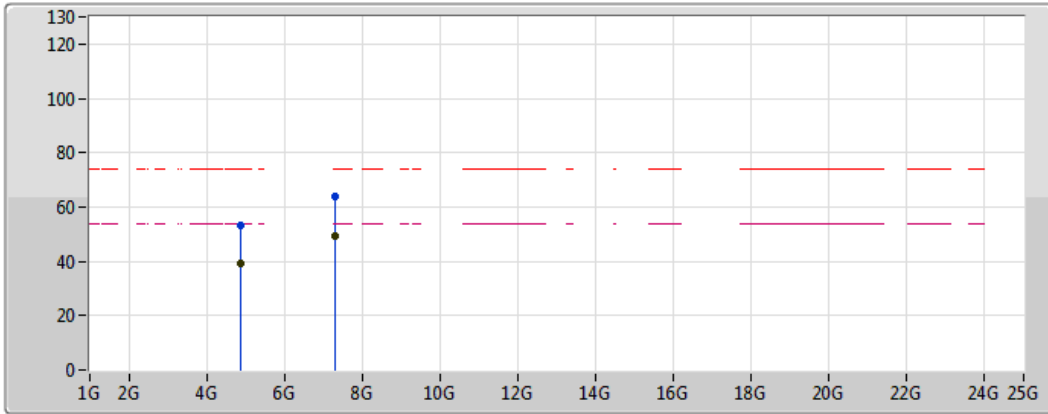
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 4.87364G | 49.25 | 74.00 | -24.75 | 6.08 | 3 | Vertical | 42 | 2.69 | - |
| AV | 4.8736G | 34.94 | 54.00 | -19.06 | 6.08 | 3 | Vertical | 42 | 2.69 | - |
| PK | 7.31012G | 58.92 | 74.00 | -15.08 | 10.97 | 3 | Vertical | 320 | 1.50 | - |
| AV | 7.31004G | 44.37 | 54.00 | -9.63 | 10.97 | 3 | Vertical | 320 | 1.50 | - |



802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

03/04/2018



Legend for the graph:

- Lim.PK: Red dashed line
- PK: Blue solid line with dot
- Lim.AV: Pink dashed line
- AV: Black solid line with dot

20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

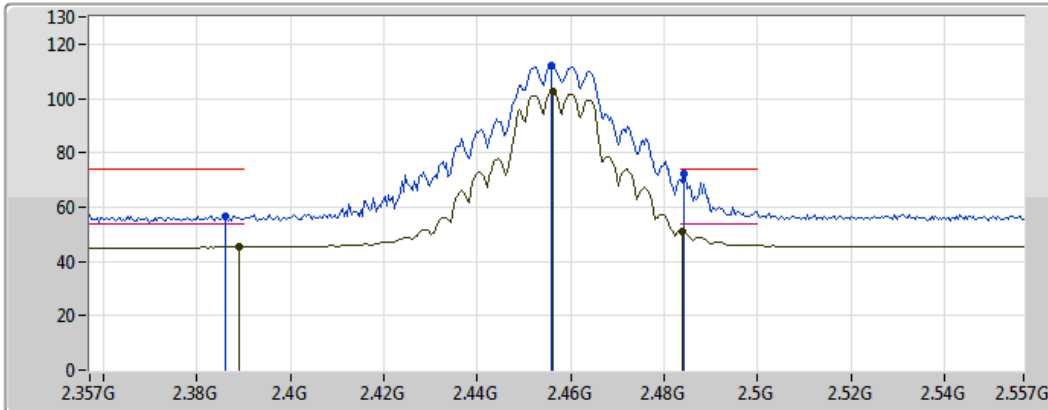
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 4.87616G | 53.49 | 74.00 | -20.51 | 6.09 | 3 | Horizontal | 357 | 2.99 | - |
| AV | 4.87196G | 38.96 | 54.00 | -15.04 | 6.08 | 3 | Horizontal | 357 | 2.99 | - |
| PK | 7.3104G | 63.69 | 74.00 | -10.31 | 10.97 | 3 | Horizontal | 293 | 1.64 | - |
| AV | 7.31G | 49.05 | 54.00 | -4.95 | 10.97 | 3 | Horizontal | 293 | 1.64 | - |



802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

03/04/2018



Legend:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Pink line)
- AV (Green line)

20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

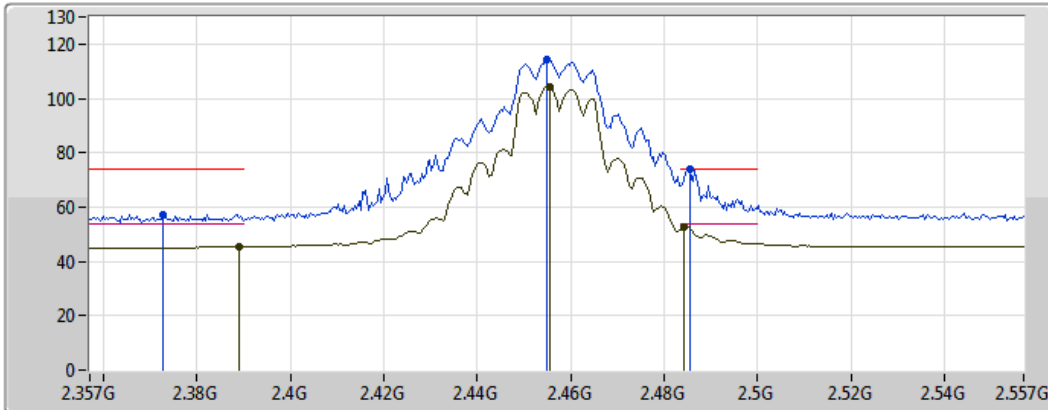
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.3862G | 56.87 | 74.00 | -17.13 | 33.16 | 3 | Vertical | 125 | 2.71 | - |
| AV | 2.389G | 45.25 | 54.00 | -8.75 | 33.17 | 3 | Vertical | 125 | 2.71 | - |
| PK | 2.4558G | 112.21 | Inf | -Inf | 33.18 | 3 | Vertical | 125 | 2.71 | - |
| AV | 2.4562G | 102.59 | Inf | -Inf | 33.18 | 3 | Vertical | 125 | 2.71 | - |
| PK | 2.4842G | 72.55 | 74.00 | -1.45 | 33.18 | 3 | Vertical | 125 | 2.71 | - |
| AV | 2.4838G | 51.21 | 54.00 | -2.79 | 33.18 | 3 | Vertical | 125 | 2.71 | - |



802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

03/04/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Pink line with a peak icon
- AV: Green line with a peak icon

20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

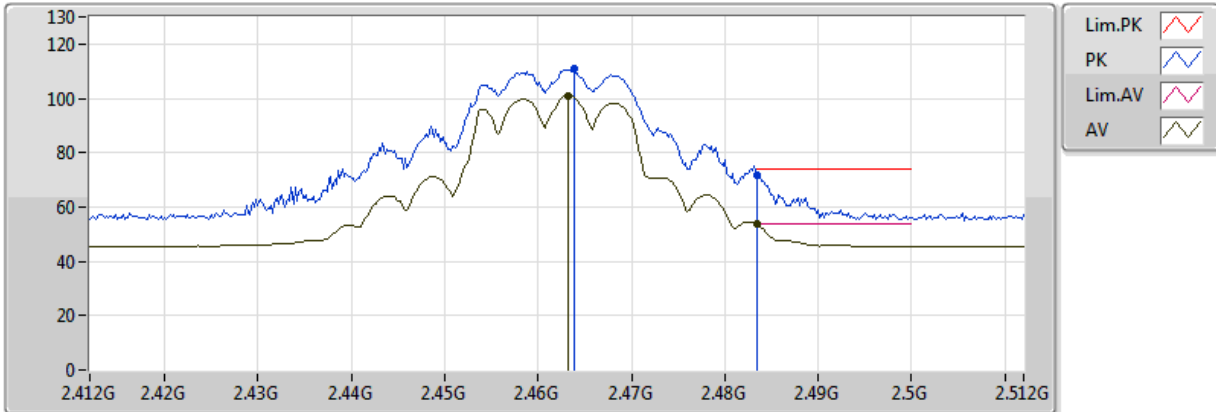
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 2.3726G | 57.08 | 74.00 | -16.92 | 33.15 | 3 | Horizontal | 40 | 2.22 | - |
| AV | 2.389G | 45.34 | 54.00 | -8.66 | 33.16 | 3 | Horizontal | 40 | 2.22 | - |
| PK | 2.455G | 114.32 | Inf | -Inf | 33.18 | 3 | Horizontal | 40 | 2.22 | - |
| AV | 2.4554G | 104.18 | Inf | -Inf | 33.18 | 3 | Horizontal | 40 | 2.22 | - |
| PK | 2.4854G | 73.92 | 74.00 | -0.08 | 33.19 | 3 | Horizontal | 40 | 2.22 | - |
| AV | 2.4842G | 52.71 | 54.00 | -1.29 | 33.19 | 3 | Horizontal | 40 | 2.22 | - |



802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 22
04-L-2
FSP(100142)

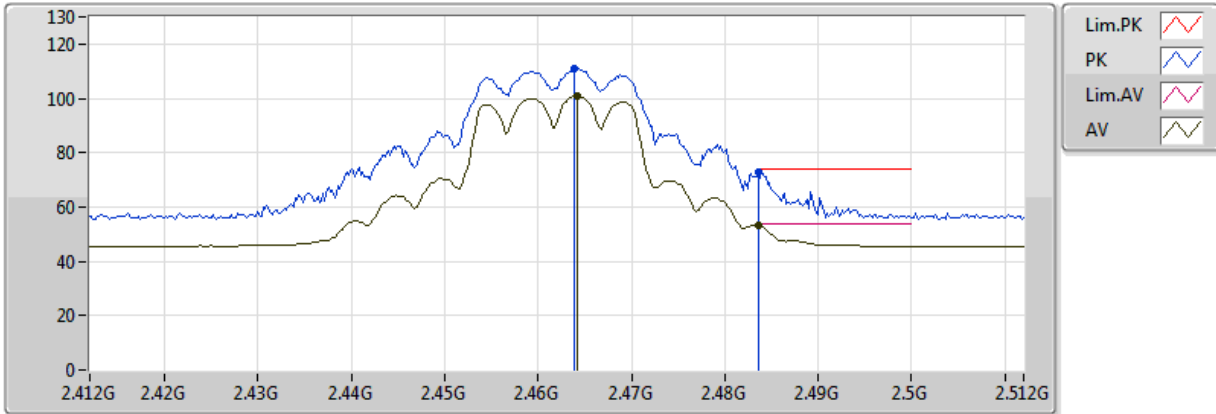
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 2.4638G | 110.70 | Inf | -Inf | 33.18 | 3 | Vertical | 124 | 2.73 | - |
| AV | 2.4632G | 100.77 | Inf | -Inf | 33.18 | 3 | Vertical | 124 | 2.73 | - |
| PK | 2.483502G | 71.65 | 74.00 | -2.35 | 33.18 | 3 | Vertical | 124 | 2.73 | - |
| AV | 2.483502G | 53.65 | 54.00 | -0.35 | 33.18 | 3 | Vertical | 124 | 2.73 | - |



802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 22
04-L-2
FSP(100142)

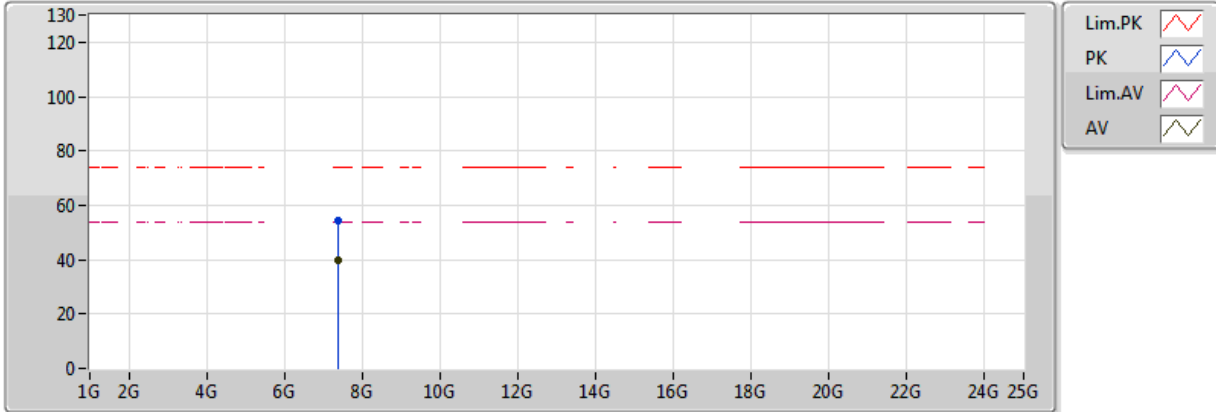
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.4638G | 110.90 | Inf | -Inf | 33.18 | 3 | Horizontal | 117 | 2.25 | - |
| AV | 2.4642G | 100.78 | Inf | -Inf | 33.18 | 3 | Horizontal | 117 | 2.25 | - |
| PK | 2.4836G | 72.77 | 74.00 | -1.23 | 33.18 | 3 | Horizontal | 117 | 2.25 | - |
| AV | 2.4836G | 53.41 | 54.00 | -0.59 | 33.18 | 3 | Horizontal | 117 | 2.25 | - |



802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 22
04-L-2
FSP(100142)

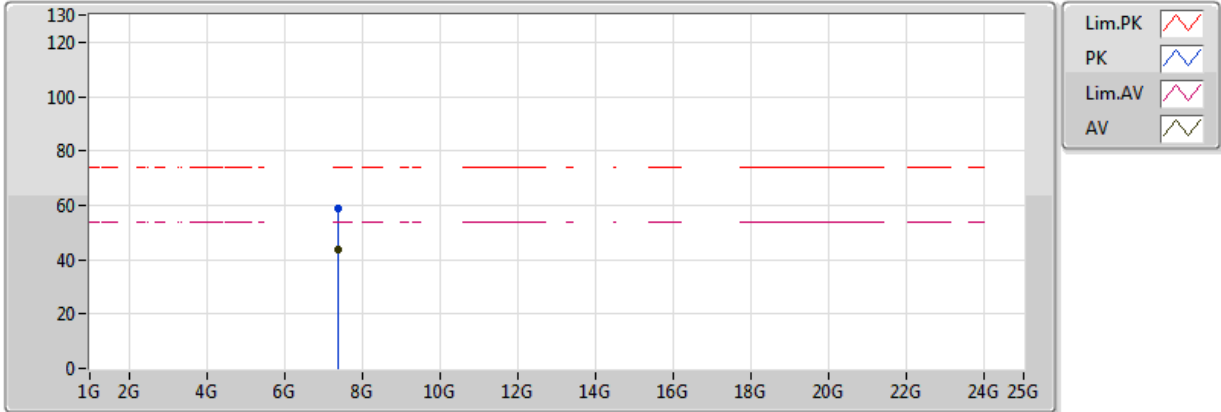
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 7.38192G | 54.34 | 74.00 | -19.66 | 10.99 | 3 | Vertical | 317 | 1.31 | - |
| AV | 7.3824G | 39.90 | 54.00 | -14.10 | 10.99 | 3 | Vertical | 317 | 1.31 | - |



802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 22
04-L-2
FSP(100142)

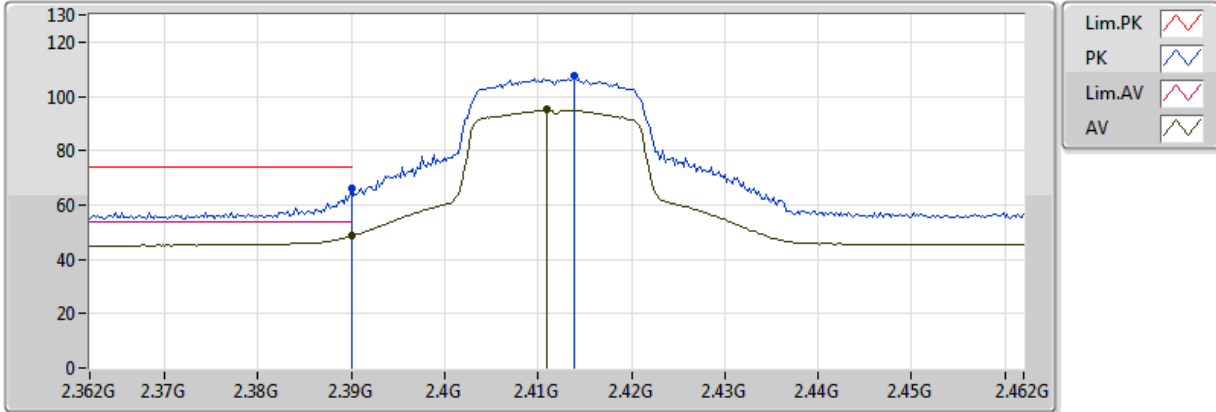
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 7.38312G | 59.00 | 74.00 | -15.00 | 10.99 | 3 | Horizontal | 296 | 1.71 | - |
| AV | 7.383G | 43.54 | 54.00 | -10.46 | 10.99 | 3 | Horizontal | 296 | 1.71 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

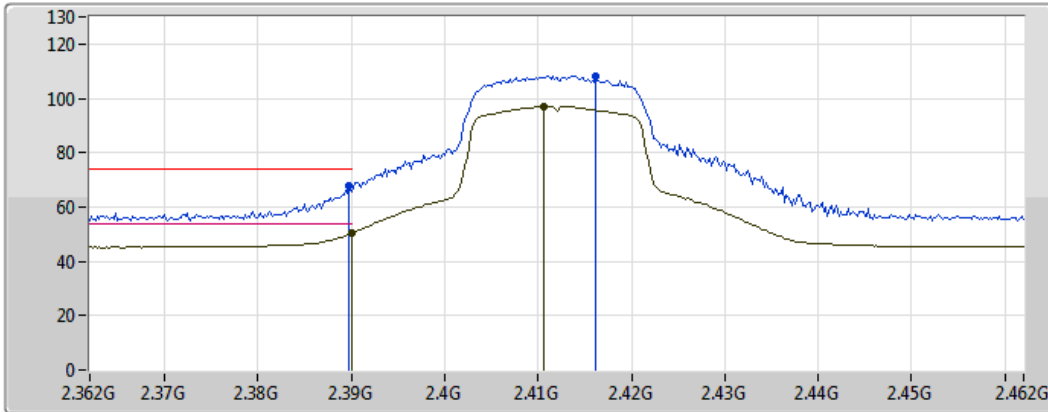
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 2.389998G | 65.97 | 74.00 | -8.03 | 33.17 | 3 | Vertical | 127 | 2.58 | - |
| AV | 2.389998G | 48.53 | 54.00 | -5.47 | 33.17 | 3 | Vertical | 127 | 2.58 | - |
| PK | 2.4138G | 107.51 | Inf | -Inf | 33.17 | 3 | Vertical | 127 | 2.58 | - |
| AV | 2.411G | 95.02 | Inf | -Inf | 33.17 | 3 | Vertical | 127 | 2.58 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

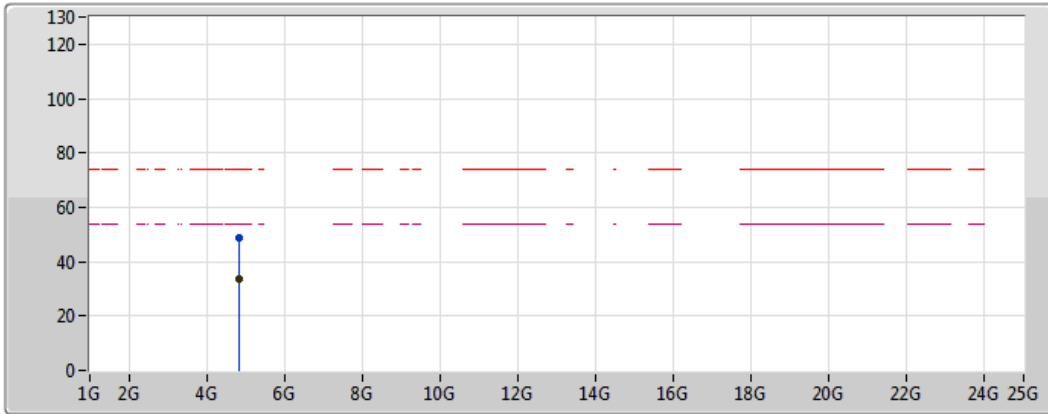
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.3898G | 67.73 | 74.00 | -6.27 | 33.17 | 3 | Horizontal | 208 | 2.41 | - |
| AV | 2.389998G | 50.19 | 54.00 | -3.81 | 33.17 | 3 | Horizontal | 208 | 2.41 | - |
| PK | 2.4162G | 108.41 | Inf | -Inf | 33.17 | 3 | Horizontal | 208 | 2.41 | - |
| AV | 2.4106G | 97.13 | Inf | -Inf | 33.17 | 3 | Horizontal | 208 | 2.41 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

03/04/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Green line)

20180402
 EUT Y_2TX
 Setting 21
 04-L-2
 FSP(100142)

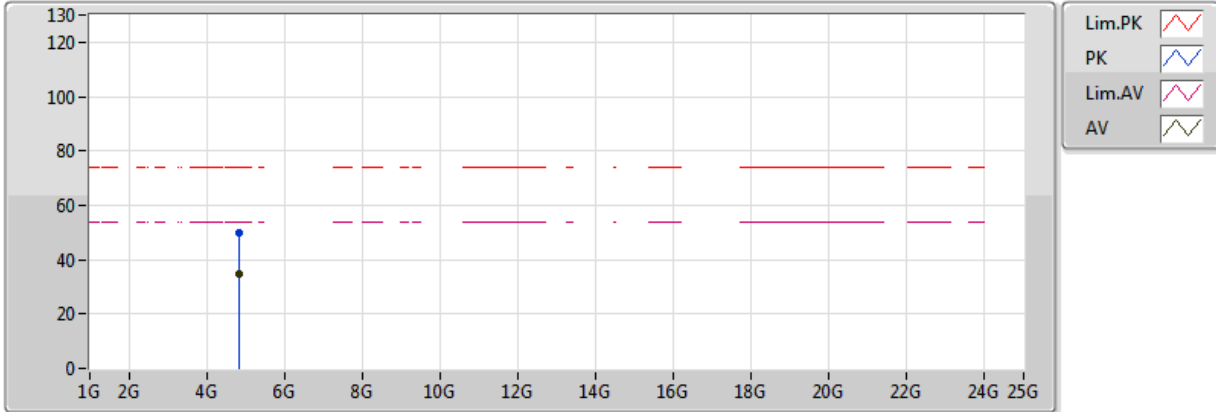
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 4.82464G | 48.72 | 74.00 | -25.28 | 5.97 | 3 | Vertical | 106 | 2.05 | - |
| AV | 4.82388G | 33.63 | 54.00 | -20.37 | 5.97 | 3 | Vertical | 106 | 2.05 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

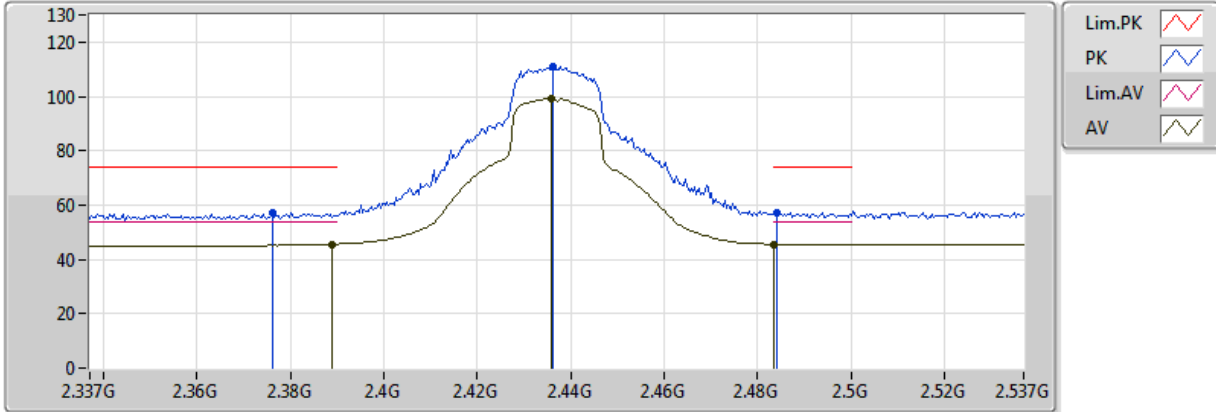
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 4.82236G | 49.65 | 74.00 | -24.35 | 5.97 | 3 | Horizontal | 355 | 1.50 | - |
| AV | 4.82412G | 34.81 | 54.00 | -19.19 | 5.97 | 3 | Horizontal | 355 | 1.50 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

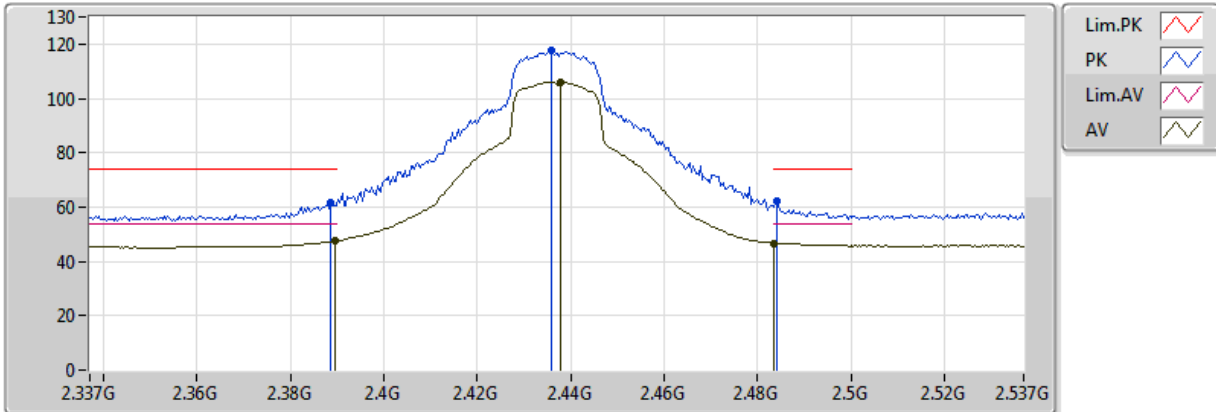
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.3762G | 57.14 | 74.00 | -16.86 | 33.16 | 3 | Vertical | 126 | 2.27 | - |
| AV | 2.389G | 45.61 | 54.00 | -8.39 | 33.17 | 3 | Vertical | 126 | 2.27 | - |
| PK | 2.4362G | 110.92 | Inf | -Inf | 33.18 | 3 | Vertical | 126 | 2.27 | - |
| AV | 2.4358G | 99.44 | Inf | -Inf | 33.18 | 3 | Vertical | 126 | 2.27 | - |
| PK | 2.4842G | 57.36 | 74.00 | -16.64 | 33.18 | 3 | Vertical | 126 | 2.27 | - |
| AV | 2.483502G | 45.54 | 54.00 | -8.46 | 33.18 | 3 | Vertical | 126 | 2.27 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

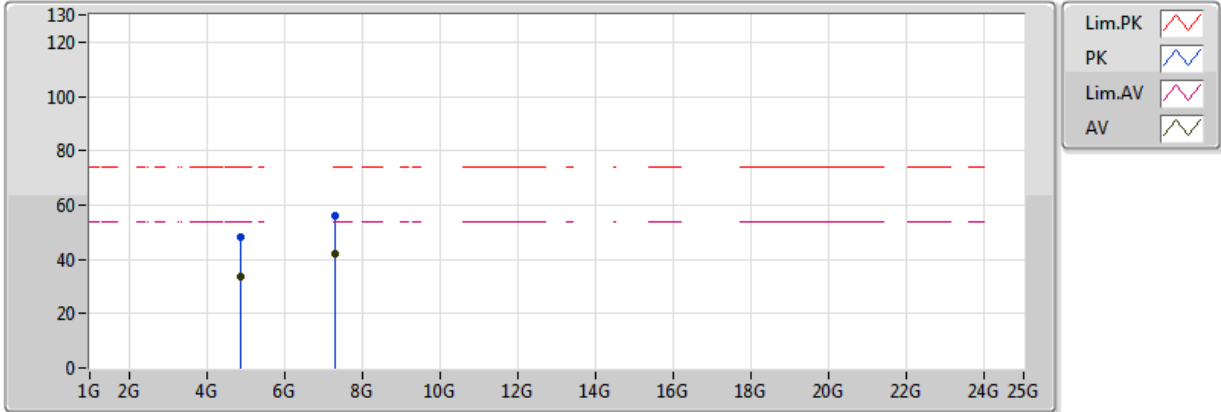
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 2.3886G | 61.36 | 74.00 | -12.64 | 33.17 | 3 | Horizontal | 287 | 2.35 | - |
| AV | 2.3894G | 47.49 | 54.00 | -6.51 | 33.17 | 3 | Horizontal | 287 | 2.35 | - |
| PK | 2.4358G | 117.74 | Inf | -Inf | 33.18 | 3 | Horizontal | 287 | 2.35 | - |
| AV | 2.4378G | 106.13 | Inf | -Inf | 33.18 | 3 | Horizontal | 287 | 2.35 | - |
| PK | 2.4842G | 61.92 | 74.00 | -12.08 | 33.18 | 3 | Horizontal | 287 | 2.35 | - |
| AV | 2.483502G | 46.76 | 54.00 | -7.24 | 33.18 | 3 | Horizontal | 287 | 2.35 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

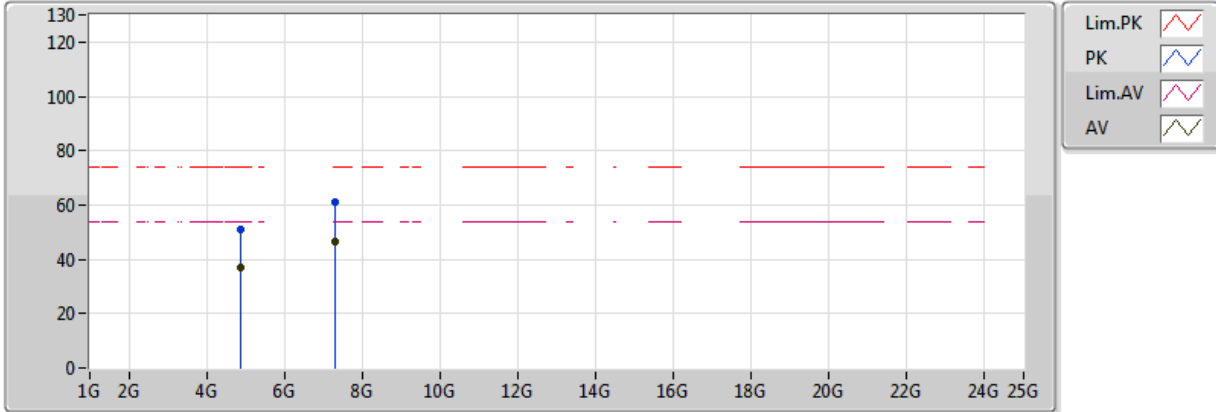
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 4.87324G | 47.98 | 74.00 | -26.02 | 6.08 | 3 | Vertical | 33 | 1.01 | - |
| AV | 4.87376G | 33.71 | 54.00 | -20.29 | 6.08 | 3 | Vertical | 33 | 1.01 | - |
| PK | 7.31176G | 55.85 | 74.00 | -18.15 | 10.97 | 3 | Vertical | 320 | 1.50 | - |
| AV | 7.31064G | 41.91 | 54.00 | -12.09 | 10.97 | 3 | Vertical | 320 | 1.50 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

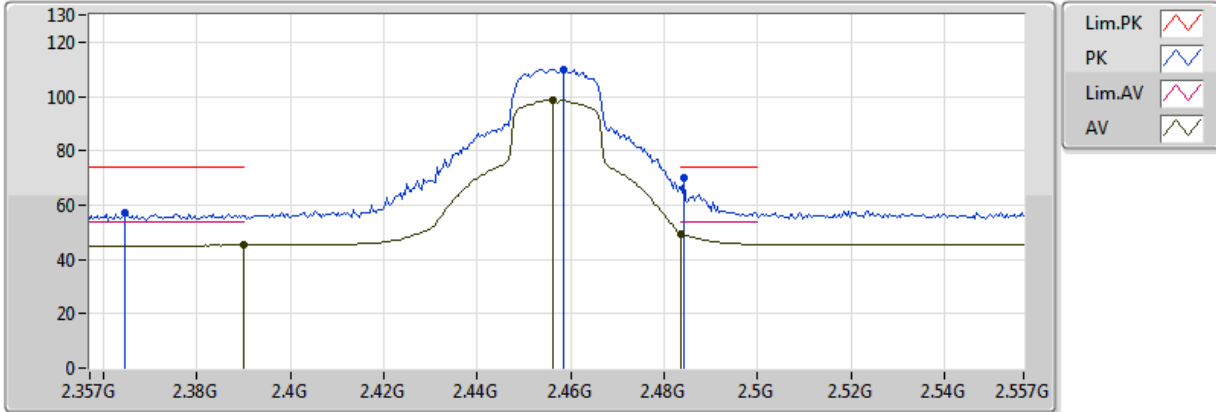
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 4.8762G | 50.91 | 74.00 | -23.09 | 6.09 | 3 | Horizontal | 356 | 1.47 | - |
| AV | 4.87408G | 37.07 | 54.00 | -16.93 | 6.08 | 3 | Horizontal | 356 | 1.47 | - |
| PK | 7.31232G | 60.95 | 74.00 | -13.05 | 10.97 | 3 | Horizontal | 294 | 1.64 | - |
| AV | 7.3102G | 46.62 | 54.00 | -7.38 | 10.97 | 3 | Horizontal | 294 | 1.64 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

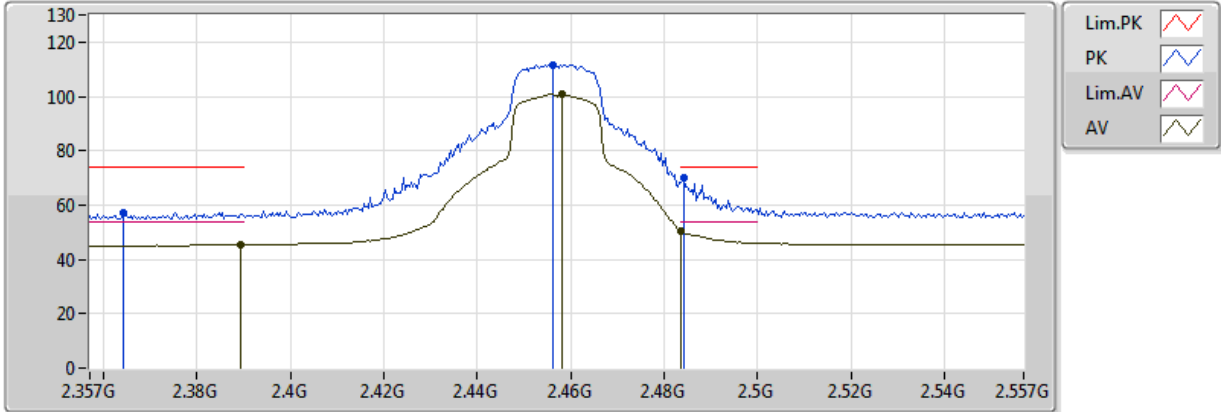
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.3646G | 56.89 | 74.00 | -17.11 | 33.15 | 3 | Vertical | 127 | 2.76 | - |
| AV | 2.3898G | 45.23 | 54.00 | -8.77 | 33.17 | 3 | Vertical | 127 | 2.76 | - |
| PK | 2.4586G | 109.99 | Inf | -Inf | 33.18 | 3 | Vertical | 127 | 2.76 | - |
| AV | 2.4562G | 98.88 | Inf | -Inf | 33.18 | 3 | Vertical | 127 | 2.76 | - |
| PK | 2.4842G | 69.88 | 74.00 | -4.12 | 33.18 | 3 | Vertical | 127 | 2.76 | - |
| AV | 2.483502G | 49.54 | 54.00 | -4.46 | 33.18 | 3 | Vertical | 127 | 2.76 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 29
04-L-2
FSP(100142)

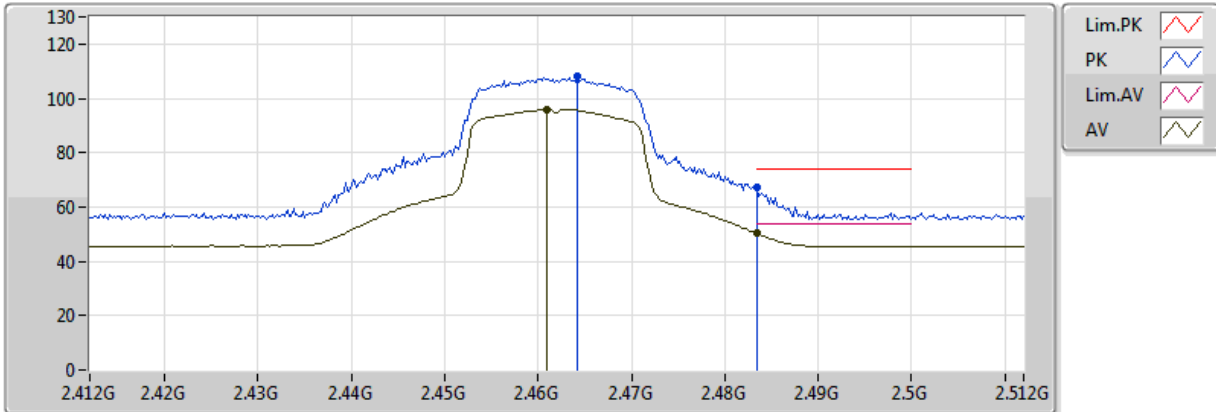
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.3642G | 57.05 | 74.00 | -16.95 | 33.14 | 3 | Horizontal | 34 | 2.11 | - |
| AV | 2.3894G | 45.38 | 54.00 | -8.62 | 33.17 | 3 | Horizontal | 34 | 2.11 | - |
| PK | 2.4562G | 111.76 | Inf | -Inf | 33.18 | 3 | Horizontal | 34 | 2.11 | - |
| AV | 2.4582G | 100.76 | Inf | -Inf | 33.18 | 3 | Horizontal | 34 | 2.11 | - |
| PK | 2.4842G | 70.20 | 74.00 | -3.80 | 33.18 | 3 | Horizontal | 34 | 2.11 | - |
| AV | 2.483502G | 50.34 | 54.00 | -3.66 | 33.18 | 3 | Horizontal | 34 | 2.11 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

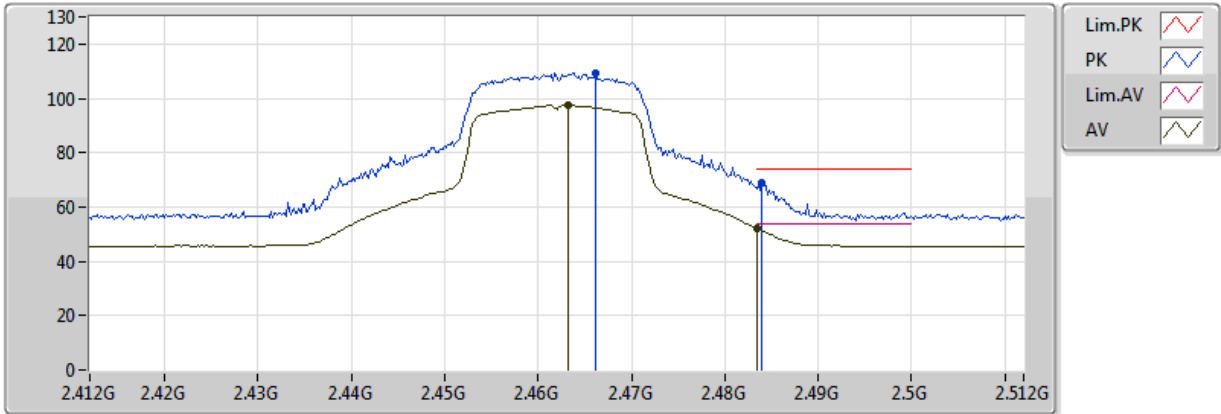
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.4642G | 108.10 | Inf | -Inf | 33.18 | 3 | Vertical | 127 | 2.60 | - |
| AV | 2.461G | 96.07 | Inf | -Inf | 33.18 | 3 | Vertical | 127 | 2.60 | - |
| PK | 2.483502G | 66.97 | 74.00 | -7.03 | 33.18 | 3 | Vertical | 127 | 2.60 | - |
| AV | 2.483502G | 50.23 | 54.00 | -3.77 | 33.18 | 3 | Vertical | 127 | 2.60 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

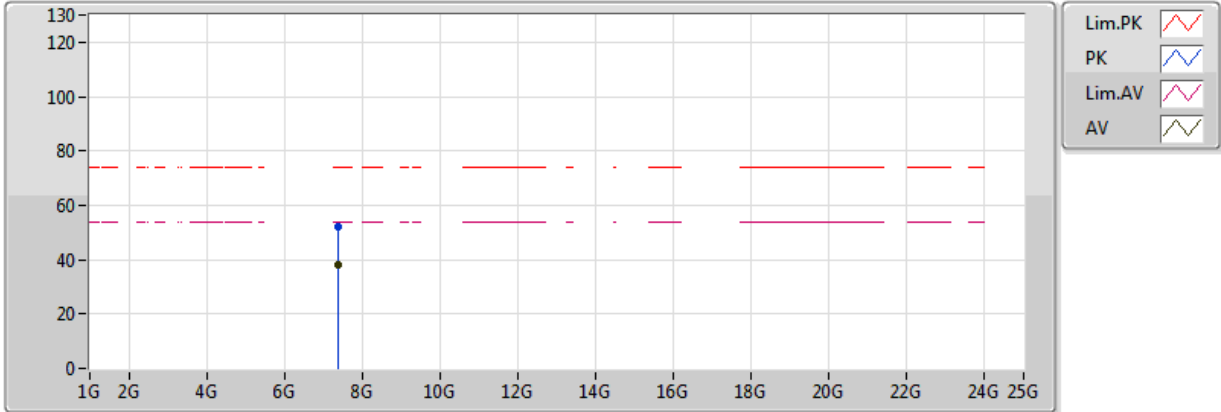
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.4662G | 109.30 | Inf | -Inf | 33.18 | 3 | Horizontal | 117 | 2.28 | - |
| AV | 2.4632G | 97.55 | Inf | -Inf | 33.18 | 3 | Horizontal | 117 | 2.28 | - |
| PK | 2.484G | 68.92 | 74.00 | -5.08 | 33.18 | 3 | Horizontal | 117 | 2.28 | - |
| AV | 2.483502G | 52.12 | 54.00 | -1.88 | 33.18 | 3 | Horizontal | 117 | 2.28 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

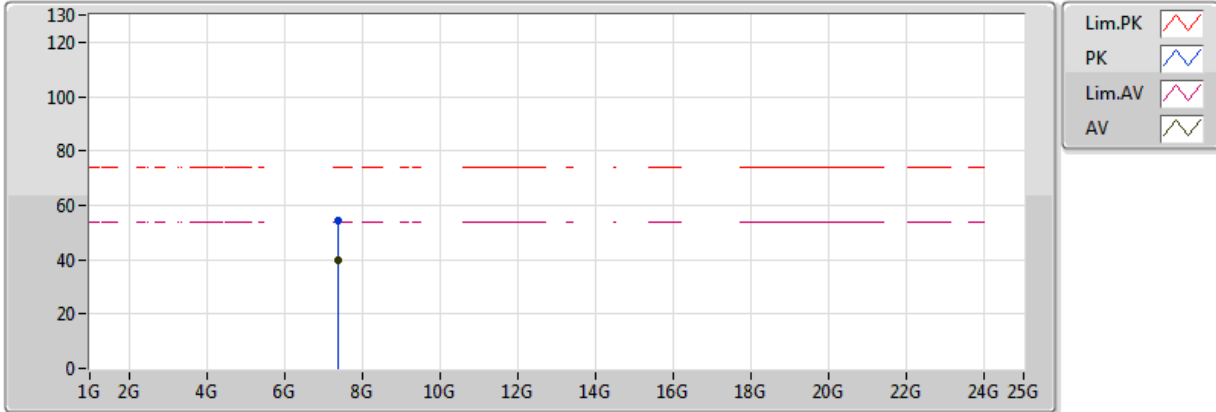
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 7.38308G | 52.10 | 74.00 | -21.90 | 10.99 | 3 | Vertical | 359 | 1.49 | - |
| AV | 7.3838G | 38.27 | 54.00 | -15.73 | 10.99 | 3 | Vertical | 359 | 1.49 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

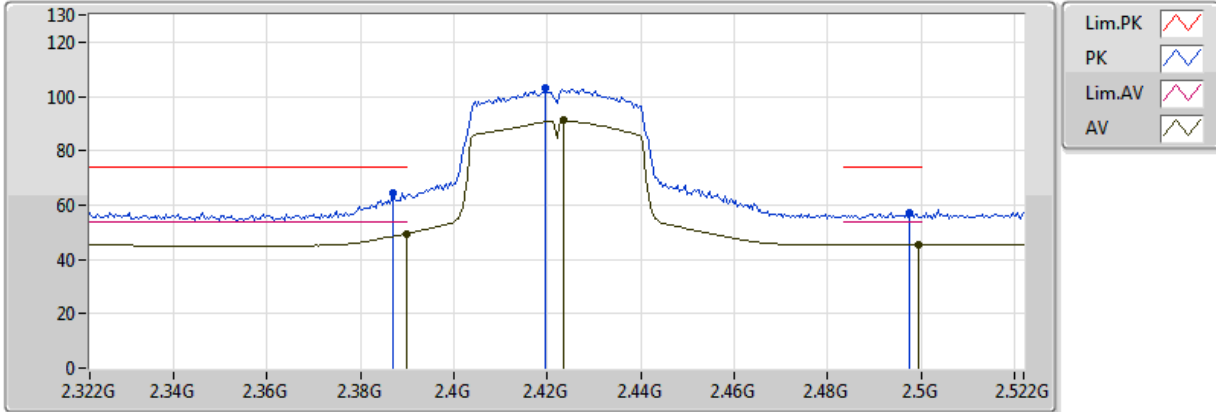
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 7.37856G | 54.43 | 74.00 | -19.57 | 10.99 | 3 | Horizontal | 285 | 2.43 | - |
| AV | 7.382G | 40.03 | 54.00 | -13.97 | 10.99 | 3 | Horizontal | 285 | 2.43 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 20
04-L-2
FSP(100142)

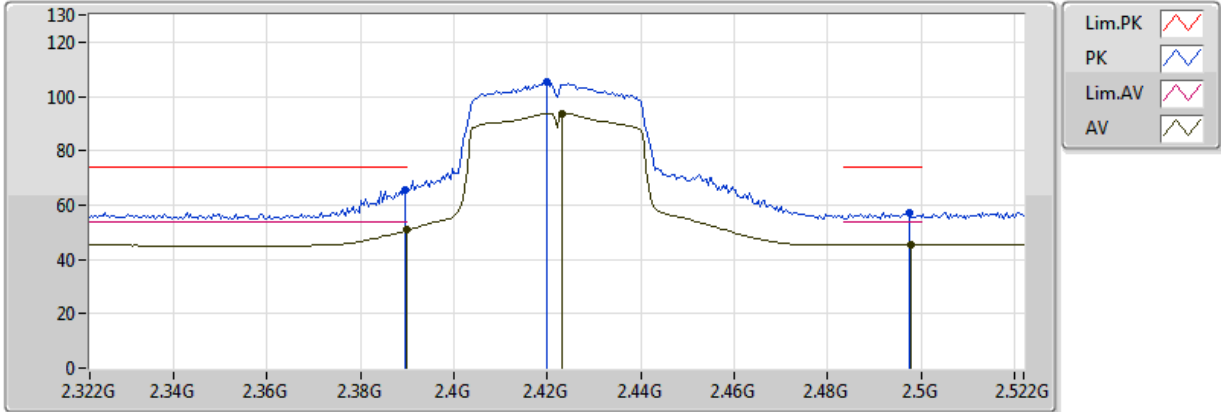
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.3868G | 64.67 | 74.00 | -9.33 | 33.16 | 3 | Vertical | 119 | 2.30 | - |
| AV | 2.389998G | 49.35 | 54.00 | -4.65 | 33.17 | 3 | Vertical | 119 | 2.30 | - |
| PK | 2.4196G | 103.25 | Inf | -Inf | 33.17 | 3 | Vertical | 119 | 2.30 | - |
| AV | 2.4236G | 91.12 | Inf | -Inf | 33.17 | 3 | Vertical | 119 | 2.30 | - |
| PK | 2.4976G | 57.38 | 74.00 | -16.62 | 33.19 | 3 | Vertical | 119 | 2.30 | - |
| AV | 2.4996G | 45.34 | 54.00 | -8.66 | 33.19 | 3 | Vertical | 119 | 2.30 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 20
04-L-2
FSP(100142)

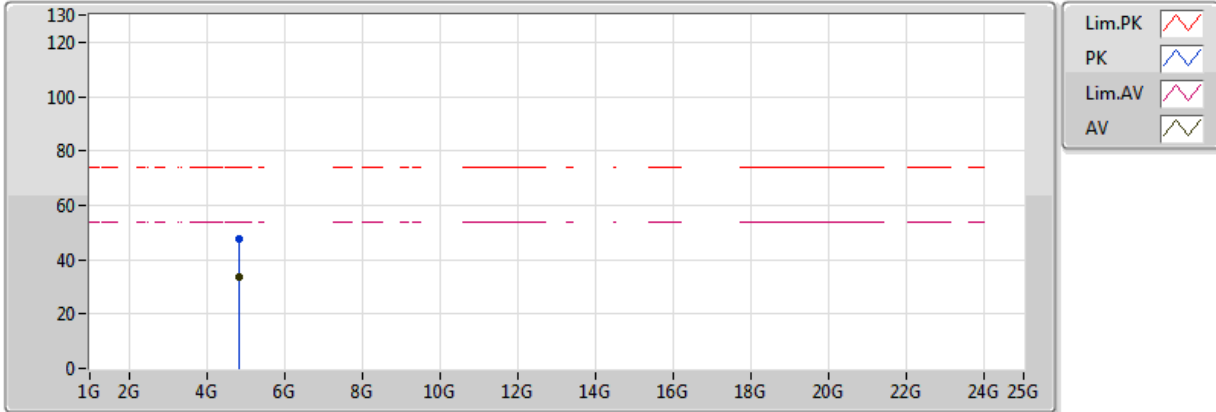
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 2.3896G | 65.82 | 74.00 | -8.18 | 33.17 | 3 | Horizontal | 211 | 2.34 | - |
| AV | 2.389998G | 50.74 | 54.00 | -3.26 | 33.17 | 3 | Horizontal | 211 | 2.34 | - |
| PK | 2.42G | 105.22 | Inf | -Inf | 33.17 | 3 | Horizontal | 211 | 2.34 | - |
| AV | 2.4232G | 93.82 | Inf | -Inf | 33.17 | 3 | Horizontal | 211 | 2.34 | - |
| PK | 2.4976G | 57.08 | 74.00 | -16.92 | 33.19 | 3 | Horizontal | 211 | 2.34 | - |
| AV | 2.498G | 45.33 | 54.00 | -8.67 | 33.19 | 3 | Horizontal | 211 | 2.34 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 20
04-L-2
FSP(100142)

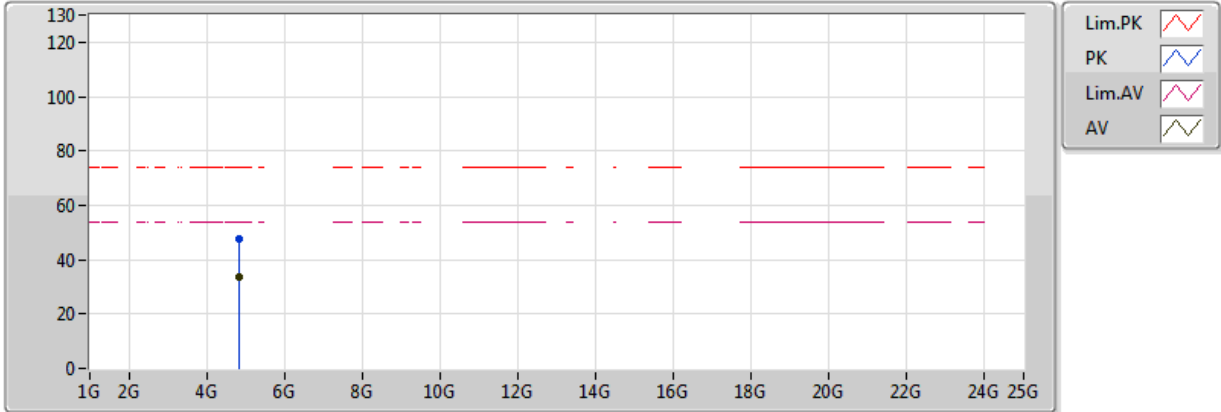
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 4.85244G | 47.76 | 74.00 | -26.24 | 6.04 | 3 | Vertical | 242 | 1.46 | - |
| AV | 4.83492G | 33.70 | 54.00 | -20.30 | 6.00 | 3 | Vertical | 242 | 1.46 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 20
04-L-2
FSP(100142)

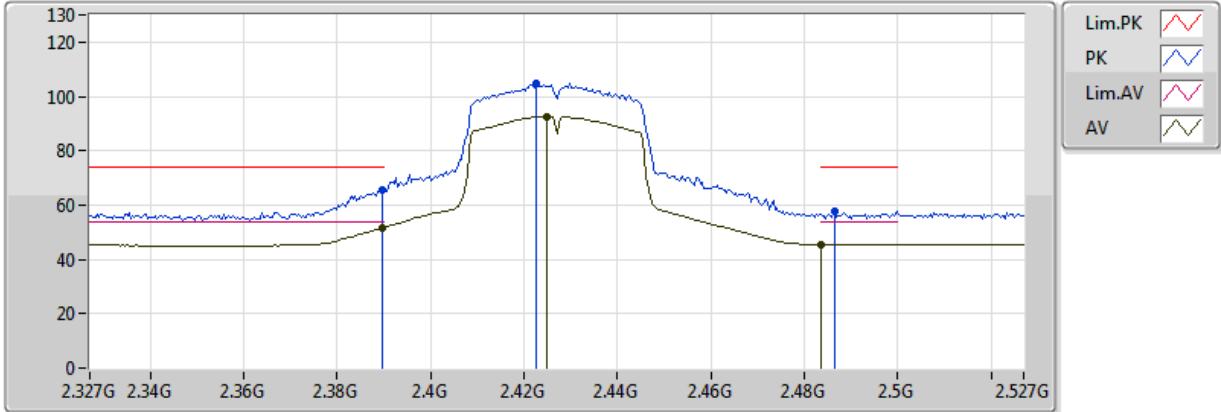
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 4.8352G | 47.86 | 74.00 | -26.14 | 6.00 | 3 | Horizontal | 235 | 2.15 | - |
| AV | 4.83496G | 33.67 | 54.00 | -20.33 | 6.00 | 3 | Horizontal | 235 | 2.15 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 22
04-L-2
FSP(100142)

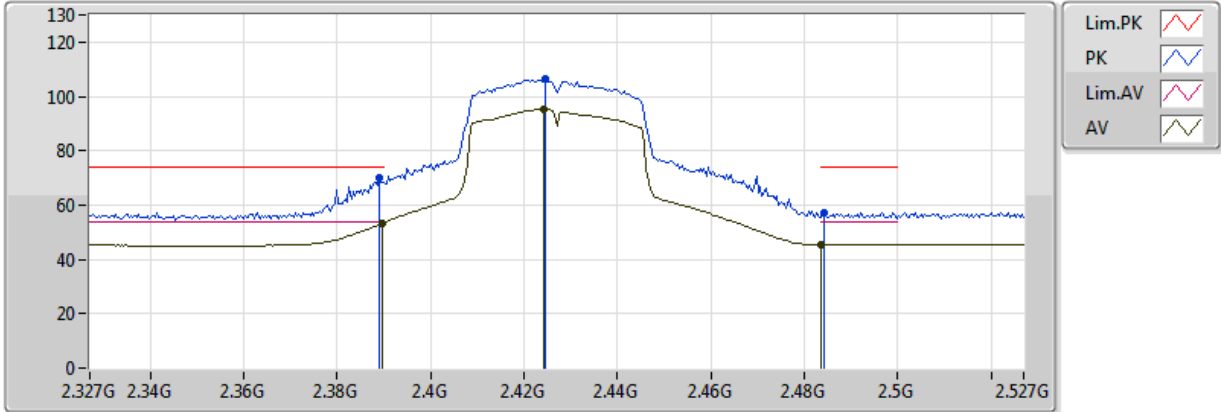
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.3898G | 65.58 | 74.00 | -8.42 | 33.17 | 3 | Vertical | 123 | 2.15 | - |
| AV | 2.3898G | 51.68 | 54.00 | -2.32 | 33.17 | 3 | Vertical | 123 | 2.15 | - |
| PK | 2.4226G | 104.70 | Inf | -Inf | 33.17 | 3 | Vertical | 123 | 2.15 | - |
| AV | 2.425G | 92.67 | Inf | -Inf | 33.17 | 3 | Vertical | 123 | 2.15 | - |
| PK | 2.4866G | 57.76 | 74.00 | -16.24 | 33.19 | 3 | Vertical | 123 | 2.15 | - |
| AV | 2.483502G | 45.47 | 54.00 | -8.53 | 33.18 | 3 | Vertical | 123 | 2.15 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 22
04-L-2
FSP(100142)

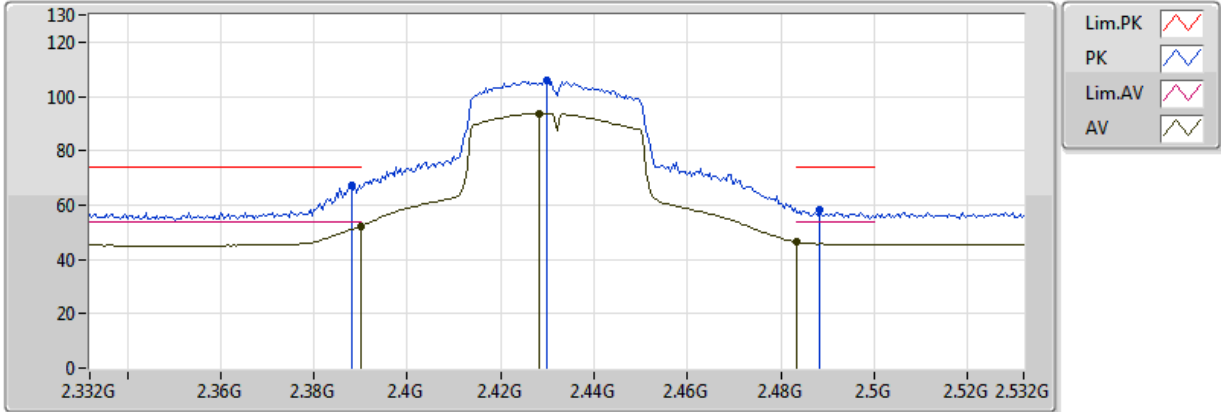
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 2.389G | 69.82 | 74.00 | -4.18 | 33.17 | 3 | Horizontal | 211 | 2.34 | - |
| AV | 2.3898G | 53.40 | 54.00 | -0.60 | 33.17 | 3 | Horizontal | 211 | 2.34 | - |
| PK | 2.4246G | 106.43 | Inf | -Inf | 33.17 | 3 | Horizontal | 211 | 2.34 | - |
| AV | 2.4242G | 95.12 | Inf | -Inf | 33.17 | 3 | Horizontal | 211 | 2.34 | - |
| PK | 2.4842G | 57.40 | 74.00 | -16.60 | 33.18 | 3 | Horizontal | 211 | 2.34 | - |
| AV | 2.483502G | 45.46 | 54.00 | -8.54 | 33.18 | 3 | Horizontal | 211 | 2.34 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

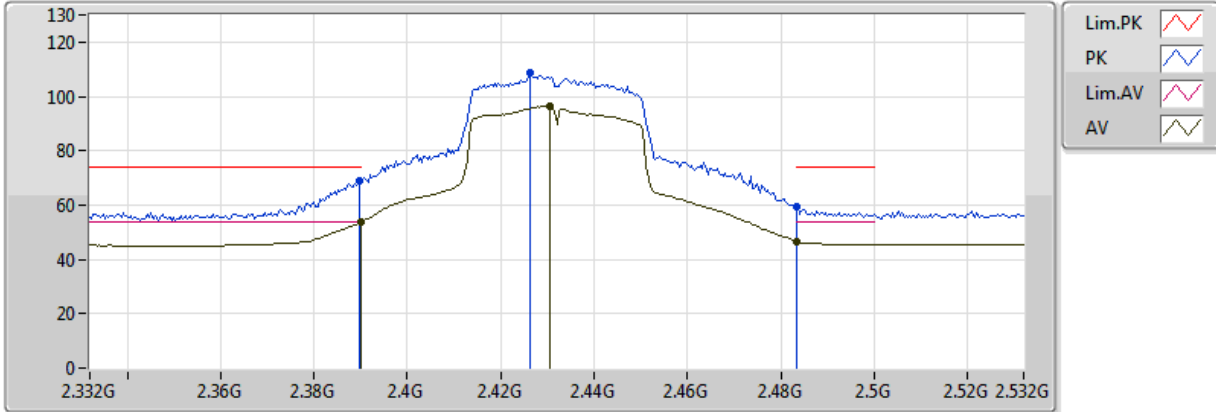
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.388G | 67.45 | 74.00 | -6.55 | 33.16 | 3 | Vertical | 127 | 2.29 | - |
| AV | 2.389998G | 52.21 | 54.00 | -1.79 | 33.17 | 3 | Vertical | 127 | 2.29 | - |
| PK | 2.43G | 105.66 | Inf | -Inf | 33.18 | 3 | Vertical | 127 | 2.29 | - |
| AV | 2.4284G | 93.81 | Inf | -Inf | 33.18 | 3 | Vertical | 127 | 2.29 | - |
| PK | 2.4884G | 58.09 | 74.00 | -15.91 | 33.19 | 3 | Vertical | 127 | 2.29 | - |
| AV | 2.483502G | 46.33 | 54.00 | -7.67 | 33.18 | 3 | Vertical | 127 | 2.29 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

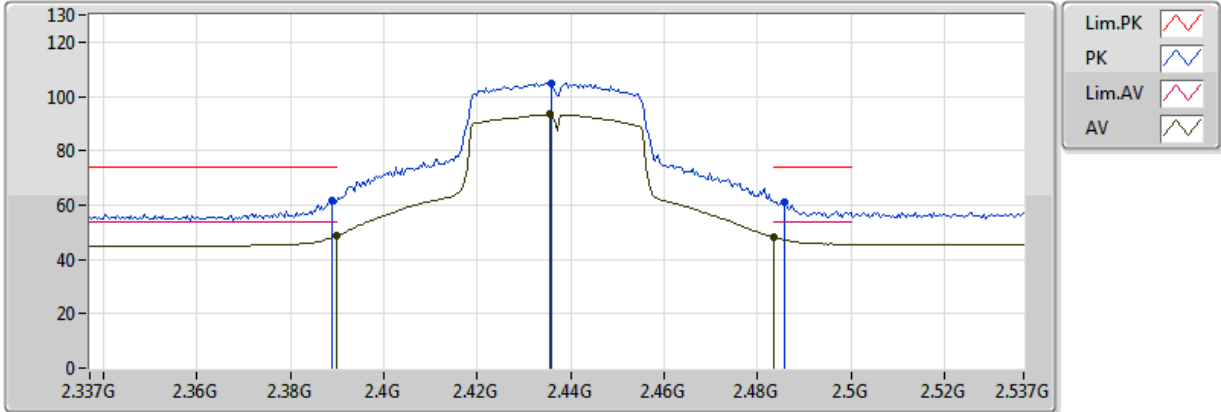
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.3896G | 68.94 | 74.00 | -5.06 | 33.17 | 3 | Horizontal | 202 | 2.60 | - |
| AV | 2.389998G | 53.55 | 54.00 | -0.45 | 33.17 | 3 | Horizontal | 202 | 2.60 | - |
| PK | 2.4264G | 108.54 | Inf | -Inf | 33.18 | 3 | Horizontal | 202 | 2.60 | - |
| AV | 2.4304G | 96.15 | Inf | -Inf | 33.18 | 3 | Horizontal | 202 | 2.60 | - |
| PK | 2.483502G | 59.33 | 74.00 | -14.67 | 33.18 | 3 | Horizontal | 202 | 2.60 | - |
| AV | 2.483502G | 46.59 | 54.00 | -7.41 | 33.18 | 3 | Horizontal | 202 | 2.60 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

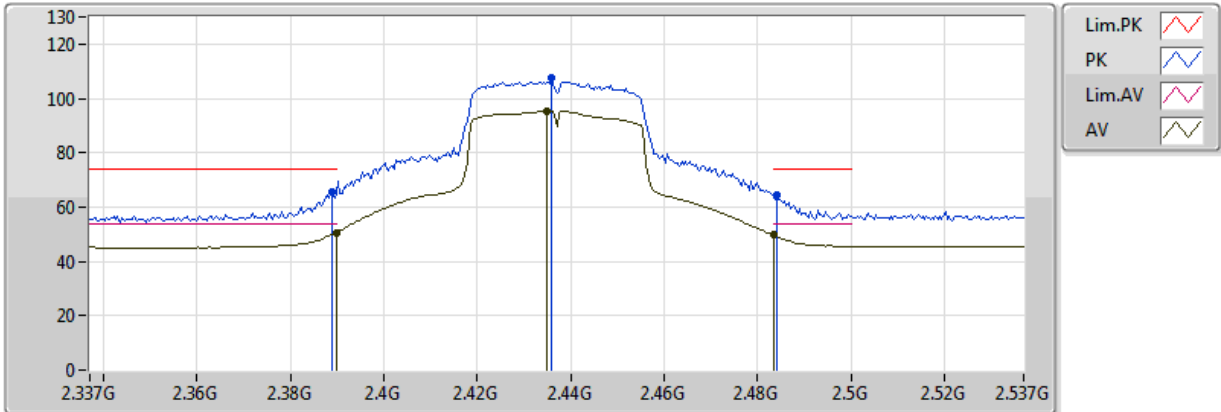
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.389G | 61.54 | 74.00 | -12.46 | 33.17 | 3 | Vertical | 263 | 2.87 | - |
| AV | 2.3898G | 48.58 | 54.00 | -5.42 | 33.17 | 3 | Vertical | 263 | 2.87 | - |
| PK | 2.4358G | 104.92 | Inf | -Inf | 33.18 | 3 | Vertical | 263 | 2.87 | - |
| AV | 2.4354G | 93.31 | Inf | -Inf | 33.18 | 3 | Vertical | 263 | 2.87 | - |
| PK | 2.4858G | 61.17 | 74.00 | -12.83 | 33.19 | 3 | Vertical | 263 | 2.87 | - |
| AV | 2.483502G | 48.21 | 54.00 | -5.79 | 33.18 | 3 | Vertical | 263 | 2.87 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

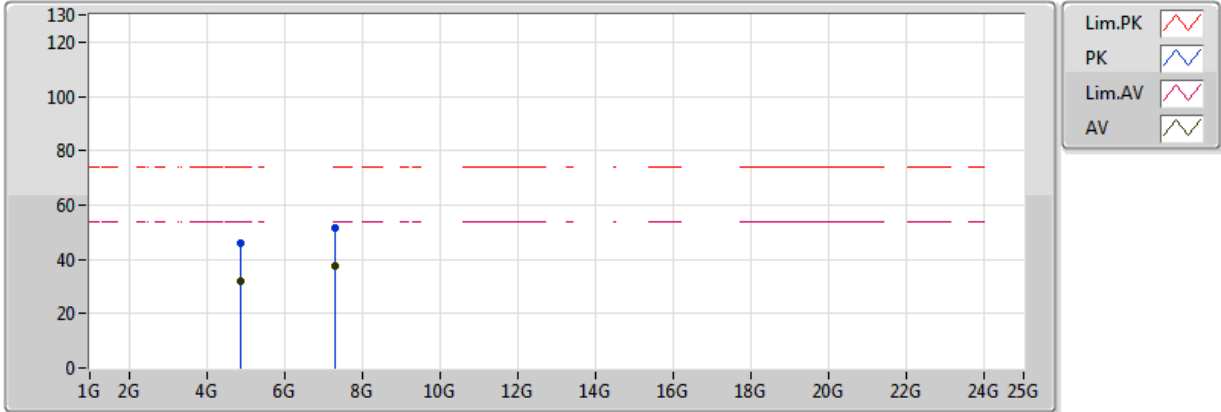
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 2.389G | 65.34 | 74.00 | -8.66 | 33.17 | 3 | Horizontal | 206 | 2.29 | - |
| AV | 2.3898G | 50.64 | 54.00 | -3.36 | 33.17 | 3 | Horizontal | 206 | 2.29 | - |
| PK | 2.4358G | 107.71 | Inf | -Inf | 33.18 | 3 | Horizontal | 206 | 2.29 | - |
| AV | 2.435G | 95.51 | Inf | -Inf | 33.18 | 3 | Horizontal | 206 | 2.29 | - |
| PK | 2.4842G | 64.25 | 74.00 | -9.75 | 33.18 | 3 | Horizontal | 206 | 2.29 | - |
| AV | 2.483502G | 49.62 | 54.00 | -4.38 | 33.18 | 3 | Horizontal | 206 | 2.29 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 24
04-L-2
FSP(100142)

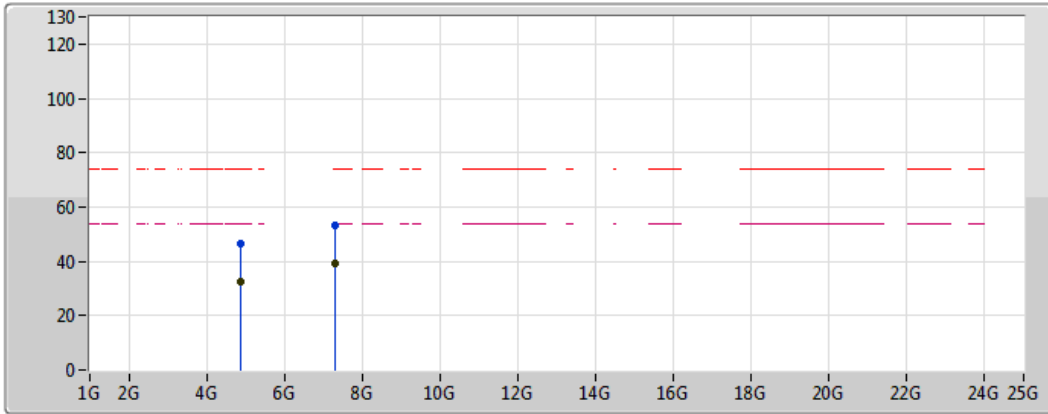
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 4.88312G | 46.14 | 74.00 | -27.86 | 6.10 | 3 | Vertical | 198 | 1.28 | - |
| AV | 4.86412G | 32.20 | 54.00 | -21.80 | 6.06 | 3 | Vertical | 198 | 1.28 | - |
| PK | 7.3022G | 51.77 | 74.00 | -22.23 | 10.97 | 3 | Vertical | 130 | 2.49 | - |
| AV | 7.30756G | 37.69 | 54.00 | -16.31 | 10.97 | 3 | Vertical | 130 | 2.49 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

03/04/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line with dot)
- Lim.AV (Pink dashed line)
- AV (Green line with dot)

20180402
 EUT Y_2TX
 Setting 24
 04-L-2
 FSP(100142)

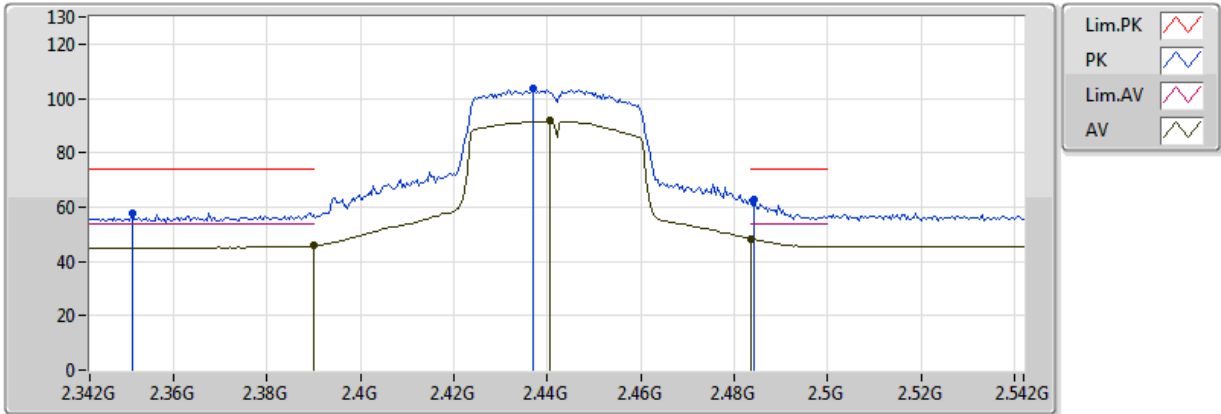
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 4.87588G | 46.71 | 74.00 | -27.29 | 6.09 | 3 | Horizontal | 122 | 2.01 | - |
| AV | 4.86428G | 32.36 | 54.00 | -21.64 | 6.06 | 3 | Horizontal | 122 | 2.01 | - |
| PK | 7.30768G | 53.43 | 74.00 | -20.57 | 10.97 | 3 | Horizontal | 287 | 2.46 | - |
| AV | 7.3052G | 39.48 | 54.00 | -14.52 | 10.97 | 3 | Horizontal | 287 | 2.46 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

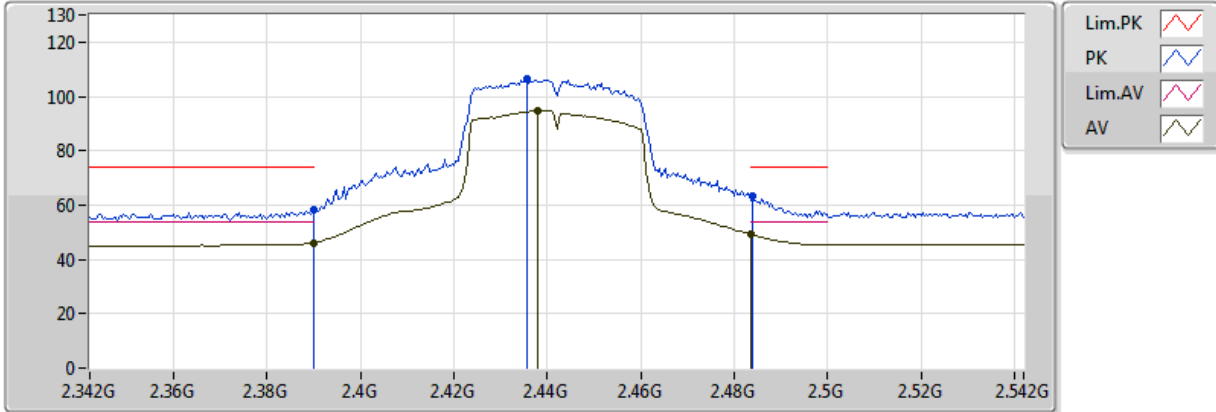
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 2.3512G | 57.78 | 74.00 | -16.22 | 33.14 | 3 | Vertical | 292 | 1.95 | - |
| AV | 2.389998G | 45.81 | 54.00 | -8.19 | 33.17 | 3 | Vertical | 292 | 1.95 | - |
| PK | 2.4368G | 103.49 | Inf | -Inf | 33.18 | 3 | Vertical | 292 | 1.95 | - |
| AV | 2.4404G | 91.62 | Inf | -Inf | 33.18 | 3 | Vertical | 292 | 1.95 | - |
| PK | 2.4844G | 63.00 | 74.00 | -11.00 | 33.18 | 3 | Vertical | 292 | 1.95 | - |
| AV | 2.483502G | 48.28 | 54.00 | -5.72 | 33.18 | 3 | Vertical | 292 | 1.95 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 21
04-L-2
FSP(100142)

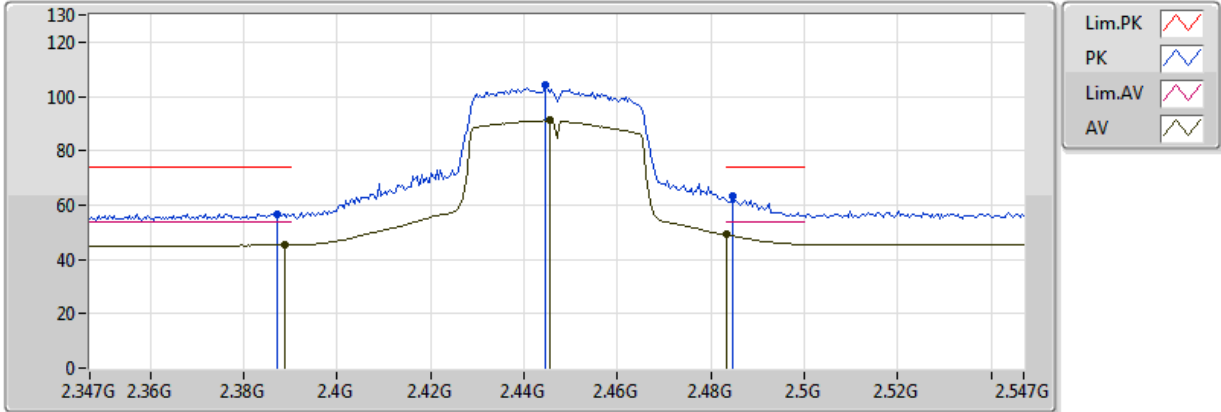
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 2.389998G | 58.21 | 74.00 | -15.79 | 33.17 | 3 | Horizontal | 40 | 2.30 | - |
| AV | 2.389998G | 46.15 | 54.00 | -7.85 | 33.17 | 3 | Horizontal | 40 | 2.30 | - |
| PK | 2.4356G | 106.60 | Inf | -Inf | 33.18 | 3 | Horizontal | 40 | 2.30 | - |
| AV | 2.438G | 94.66 | Inf | -Inf | 33.18 | 3 | Horizontal | 40 | 2.30 | - |
| PK | 2.484G | 63.09 | 74.00 | -10.91 | 33.18 | 3 | Horizontal | 40 | 2.30 | - |
| AV | 2.483502G | 49.06 | 54.00 | -4.94 | 33.18 | 3 | Horizontal | 40 | 2.30 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 1F
04-L-2
FSP(100142)

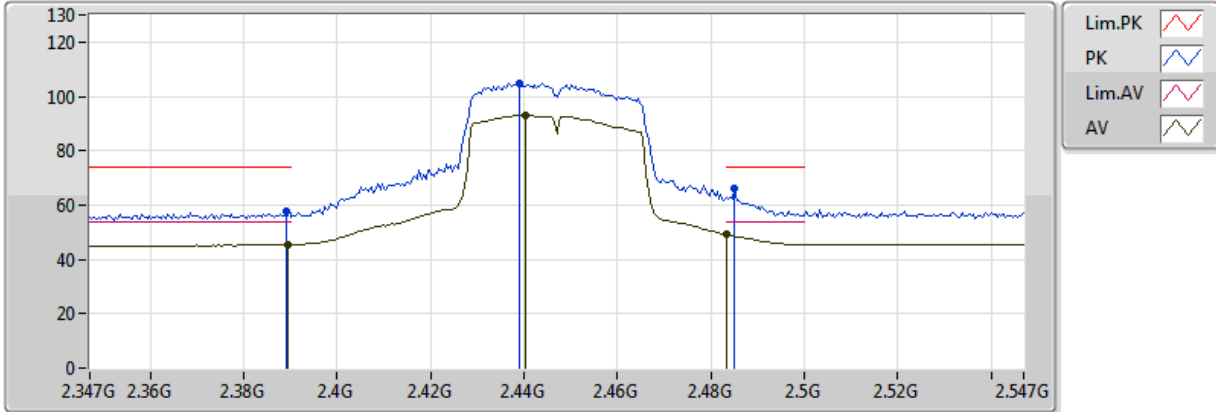
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.387G | 56.82 | 74.00 | -17.18 | 33.16 | 3 | Vertical | 268 | 2.99 | - |
| AV | 2.3886G | 45.41 | 54.00 | -8.59 | 33.17 | 3 | Vertical | 268 | 2.99 | - |
| PK | 2.446G | 104.01 | Inf | -Inf | 33.18 | 3 | Vertical | 268 | 2.99 | - |
| AV | 2.4454G | 91.13 | Inf | -Inf | 33.18 | 3 | Vertical | 268 | 2.99 | - |
| PK | 2.4846G | 63.09 | 74.00 | -10.91 | 33.18 | 3 | Vertical | 268 | 2.99 | - |
| AV | 2.483502G | 49.06 | 54.00 | -4.94 | 33.18 | 3 | Vertical | 268 | 2.99 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 1F
04-L-2
FSP(100142)

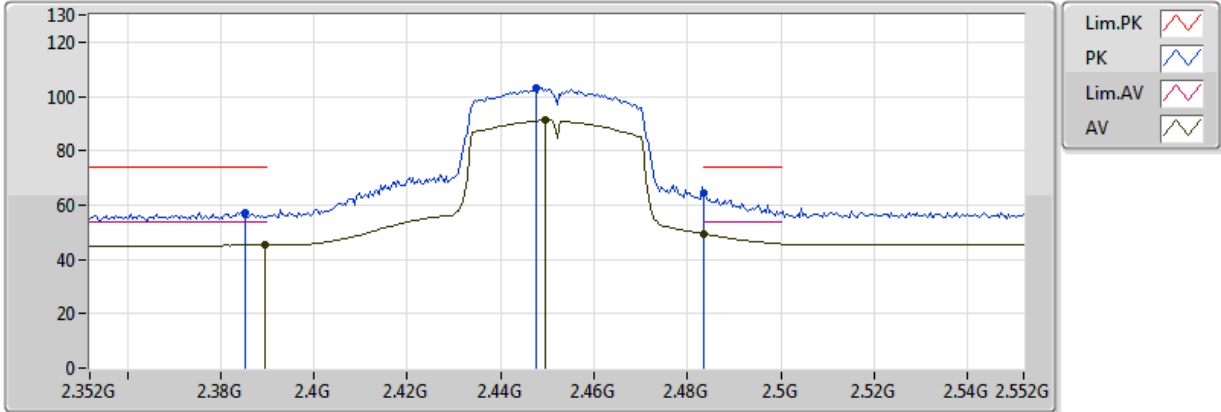
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| PK | 2.389G | 57.45 | 74.00 | -16.55 | 33.17 | 3 | Horizontal | 42 | 2.31 | - |
| AV | 2.3894G | 45.52 | 54.00 | -8.48 | 33.17 | 3 | Horizontal | 42 | 2.31 | - |
| PK | 2.439G | 105.01 | Inf | -Inf | 33.18 | 3 | Horizontal | 42 | 2.31 | - |
| AV | 2.4402G | 92.94 | Inf | -Inf | 33.18 | 3 | Horizontal | 42 | 2.31 | - |
| PK | 2.485G | 65.97 | 74.00 | -8.03 | 33.18 | 3 | Horizontal | 42 | 2.31 | - |
| AV | 2.483502G | 49.07 | 54.00 | -4.93 | 33.18 | 3 | Horizontal | 42 | 2.31 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 1F
04-L-2
FSP(100142)

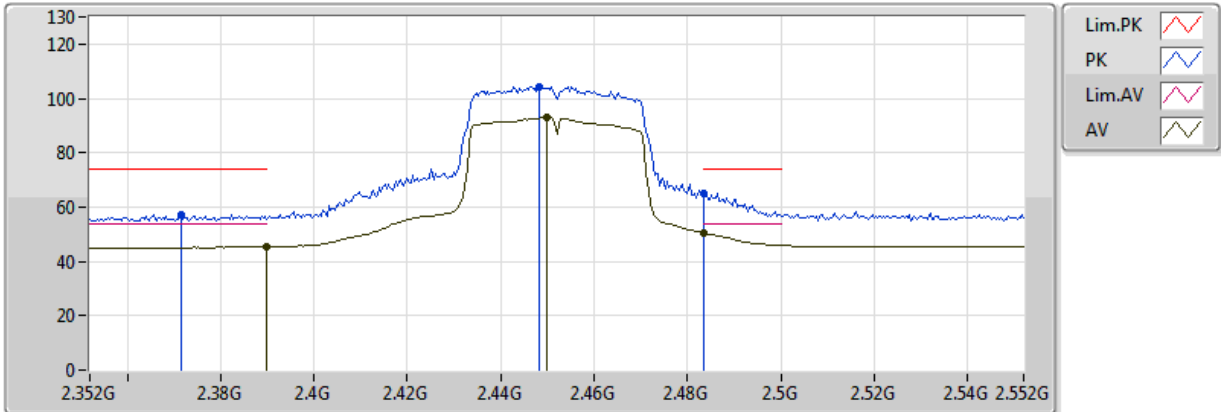
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| PK | 2.3852G | 57.19 | 74.00 | -16.81 | 33.16 | 3 | Vertical | 121 | 2.56 | - |
| AV | 2.3896G | 45.35 | 54.00 | -8.65 | 33.17 | 3 | Vertical | 121 | 2.56 | - |
| PK | 2.4476G | 103.32 | Inf | -Inf | 33.18 | 3 | Vertical | 121 | 2.56 | - |
| AV | 2.4496G | 91.18 | Inf | -Inf | 33.18 | 3 | Vertical | 121 | 2.56 | - |
| PK | 2.483502G | 64.42 | 74.00 | -9.58 | 33.18 | 3 | Vertical | 121 | 2.56 | - |
| AV | 2.483502G | 49.42 | 54.00 | -4.58 | 33.18 | 3 | Vertical | 121 | 2.56 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

02/04/2018



20180402
EUT Y_2TX
Setting 1F
04-L-2
FSP(100142)

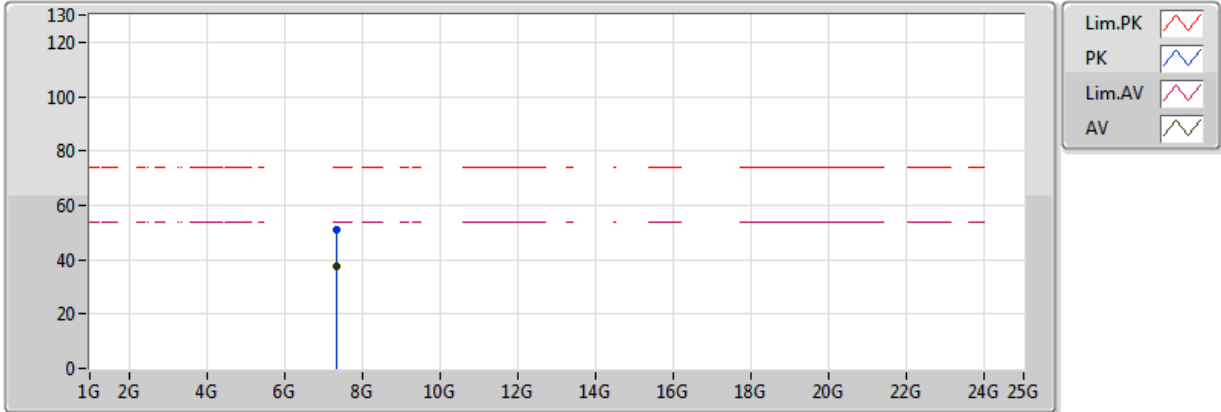
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 2.3716G | 57.41 | 74.00 | -16.59 | 33.15 | 3 | Horizontal | 33 | 1.98 | - |
| AV | 2.389998G | 45.44 | 54.00 | -8.56 | 33.17 | 3 | Horizontal | 33 | 1.98 | - |
| PK | 2.4484G | 104.46 | Inf | -Inf | 33.18 | 3 | Horizontal | 33 | 1.98 | - |
| AV | 2.45G | 92.97 | Inf | -Inf | 33.18 | 3 | Horizontal | 33 | 1.98 | - |
| PK | 2.483502G | 65.23 | 74.00 | -8.77 | 33.18 | 3 | Horizontal | 33 | 1.98 | - |
| AV | 2.483502G | 50.27 | 54.00 | -3.73 | 33.18 | 3 | Horizontal | 33 | 1.98 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 1F
04-L-2
FSP(100142)

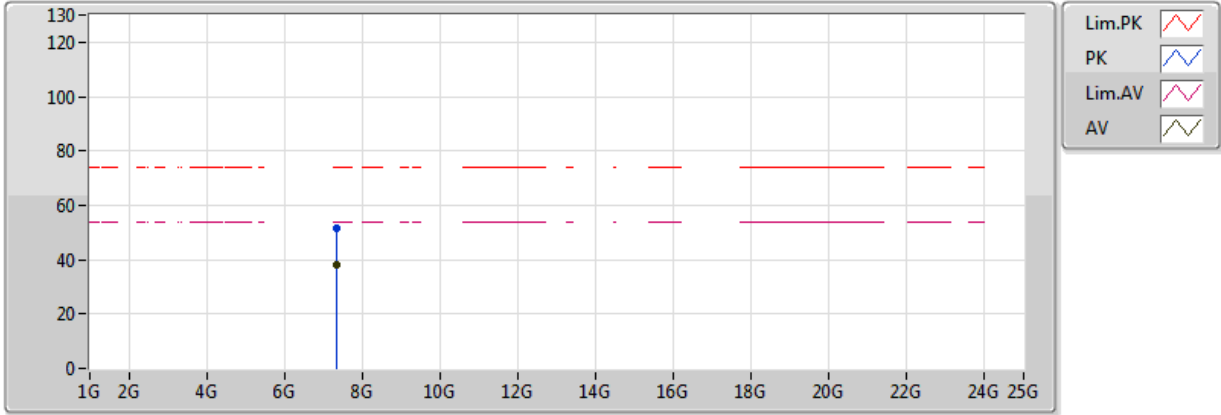
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| PK | 7.361G | 51.06 | 74.00 | -22.94 | 10.98 | 3 | Vertical | 216 | 1.34 | - |
| AV | 7.35412G | 37.49 | 54.00 | -16.51 | 10.98 | 3 | Vertical | 216 | 1.34 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

03/04/2018



20180402
EUT Y_2TX
Setting 1F
04-L-2
FSP(100142)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| PK | 7.35004G | 51.76 | 74.00 | -22.24 | 10.98 | 3 | Horizontal | 161 | 1.45 | - |
| AV | 7.35356G | 37.96 | 54.00 | -16.04 | 10.98 | 3 | Horizontal | 161 | 1.45 | - |