



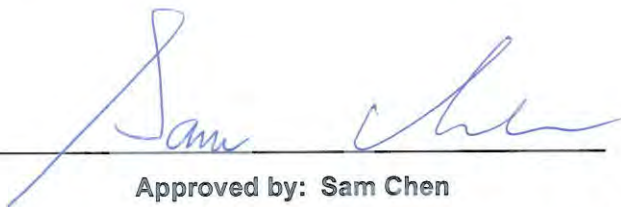
# FCC RADIO TEST REPORT

**FCC ID** : XIA-IFWA40  
**Equipment** : Wireless Home Internet  
**Brand Name** : Netcomm  
**Model Name** : IFWA-40  
**Applicant** : NetComm Wireless Limited  
18-20 Orion Road Lane Cove NSW 2066 Australia  
**Manufacturer** : NetComm Wireless Limited  
18-20 Orion Road Lane Cove NSW 2066 Australia  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Oct. 22, 2018, and testing was started from Dec. 24, 2018 and completed on Mar. 18, 2019. We, SPORTON INTERNATIONAL 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 report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

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



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**Appendix B. Test Results of DTS Bandwidth**

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**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**



**History of this test report**

Report No.	Version	Description	Issued Date
FR801751AA	01	Initial issue of report	Apr. 02, 2019



### 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	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

- 1.The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
- 2.The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Sam Chen**  
**Report Producer: Viola 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), ac (VHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ac (VHT40)	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	802.11ac VHT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11ac VHT40	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.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM 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

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
						2.4G	5G Band 1	5G Band 4
1	1	Netcomm	-	Printed PIFA Antenna	N/A	5.17	-	-
2	2	Netcomm	-	Printed PIFA Antenna	N/A	3.9	-	-
3	1	Netcomm	-	Printed PIFA Antenna	N/A	-	5	4.45
4	2	Netcomm	-	Printed PIFA Antenna	N/A	-	5.79	5.1

Note: The above information was declared by manufacturer.

Note: The EUT has four WLAN antennas.

**For WLAN 2.4GHz (2TX/2RX):**

Ant. 1 (Port 1) and Ant. 2 (Port 2) could transmit/receive simultaneously.

**For WLAN 5GHz (2TX/2RX):**

Ant. 3 (Port 1) and Ant. 4 (Port 2) could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.993	0.031	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.958	0.186	2.068m	1k
802.11ac VHT20	0.893	0.491	5.017m	300
802.11ac VHT40	0.783	1.062	2.441m	1k

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

<b>EUT Power Type</b>	From Power Adapter or Lithium-ion Battery Pack (For backup purposes only during a power outage)			
<b>Beamforming Function</b>	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
<b>Function</b>	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
<b>Test Software Version</b>	QRCT-4.0.00088			

Note: The above information was declared by manufacturer.



## 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 v05r01
- ◆ FCC KDB 662911 D01 v02r01

## 1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
<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	Welson Chen	21°C~23°C / 53%~55%	Feb. 14, 2019 ~ Feb. 26, 2019
Radiated (For below 1GHz)	03CH01-CB	Eason Chen	21°C~23°C / 53%~55%	Feb. 16, 2019 ~ Mar. 18, 2019
Radiated (For above 1GHz)	03CH01-CB	Eason Chen	21°C~23°C / 53%~55%	Jan. 26, 2019 ~ Feb. 26, 2019
AC Conduction	CO02-CB	Max Lin	23°C / 55%	Dec. 24, 2018

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086B 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)	2.0 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 <sup>-8</sup>	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	19.5
2437MHz	19
2457MHz	19
2462MHz	19
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	16
2417MHz	18.5
2437MHz	18
2457MHz	17.5
2462MHz	13.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
2412MHz	15.5
2417MHz	17
2437MHz	16.5
2457MHz	17.5
2462MHz	13
802.11ac VHT40_Nss1,(MCS0)_2TX	-
2422MHz	14
2437MHz	15
2447MHz	13
2452MHz	11.5

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.





## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral
<b>Operating Mode</b>	Normal Link
1	EUT + WCDMA Band 2 + WLAN + Adapter
2	EUT + LTE Band 5 + WLAN + Adapter
For operating mode 2 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	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.
<b>Operating Mode &lt; 1GHz</b>	Normal Link
1	EUT in Z axis + LTE Band 5 + WLAN + Adapter
2	EUT in Y axis + LTE Band 5 + WLAN + Adapter
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Z axis + WCDMA Band 2 + WLAN + Adapter
Mode 3 has been evaluated to be the worst case between Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Z axis + WCDMA Band 2 + WLAN + Battery
For operating mode 3 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
	The EUT was performed at Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT in Z axis

Note: The USB function was not evaluated by manufacturer request.



### 2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

### 2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Adapter	DVE/CUI	DSA-18PFR-12 FUS 090200	Input: 100-240V~50/60Hz, 0.6A Output: +9V, 2A
2	Lithium-ion Battery	NetComm	BAT-40	3.7VDC, 3000mAh, 11.1Wh

### 2.5 Support Equipment

For Test Site No: CO02-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E6430	N/A
B	NB	DELL	E6430	N/A
C	NB	DELL	E6430	N/A
D	LTE Base station	Anritsu	MT8820C	N/A
E	Phone	SAMPO	HT-B 907WL	N/A
F	Phone	SAMPO	HT-B 907WL	N/A
G	SIM card	N/A	N/A	N/A



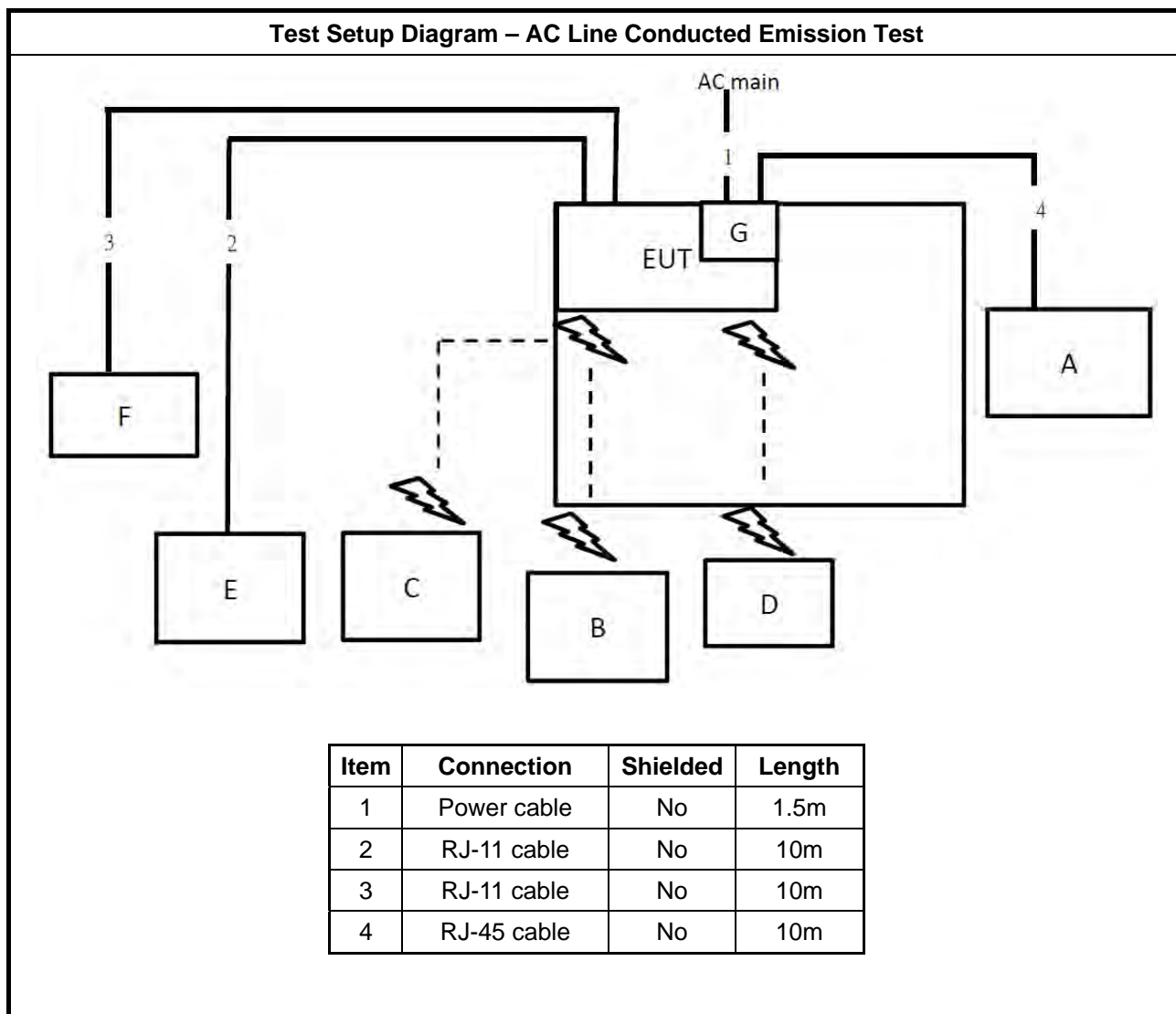
**For Test Site No: 03CH01-CB (below 1GHz)**

<b>Support Equipment</b>				
<b>No.</b>	<b>Equipment</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>FCC ID</b>
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	NB	DELL	E4300	N/A
D	LTE base station	Anritsu	MT8820C	N/A
E	Phone	H-T-T	F-689	N/A
F	Phone	H-T-T	F-689	N/A
G	SIM card	N/A	N/A	N/A

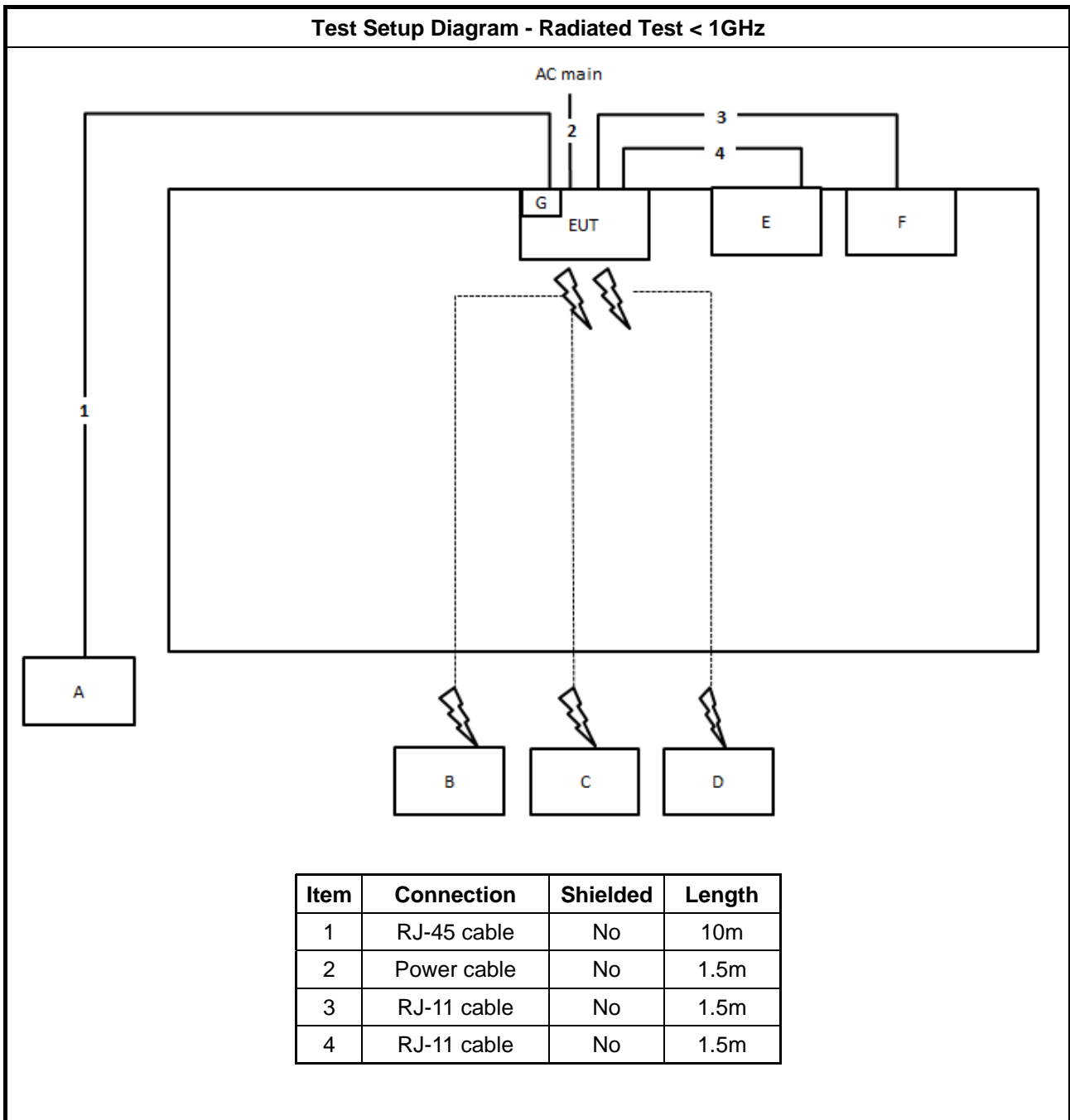
**For Test Site No: 03CH01-CB (above 1GHz) and TH01-CB**

<b>Support Equipment</b>				
<b>No.</b>	<b>Equipment</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>FCC ID</b>
A	NB	Lenovo	TP00048A	N/A

## 2.6 Test Setup Diagram

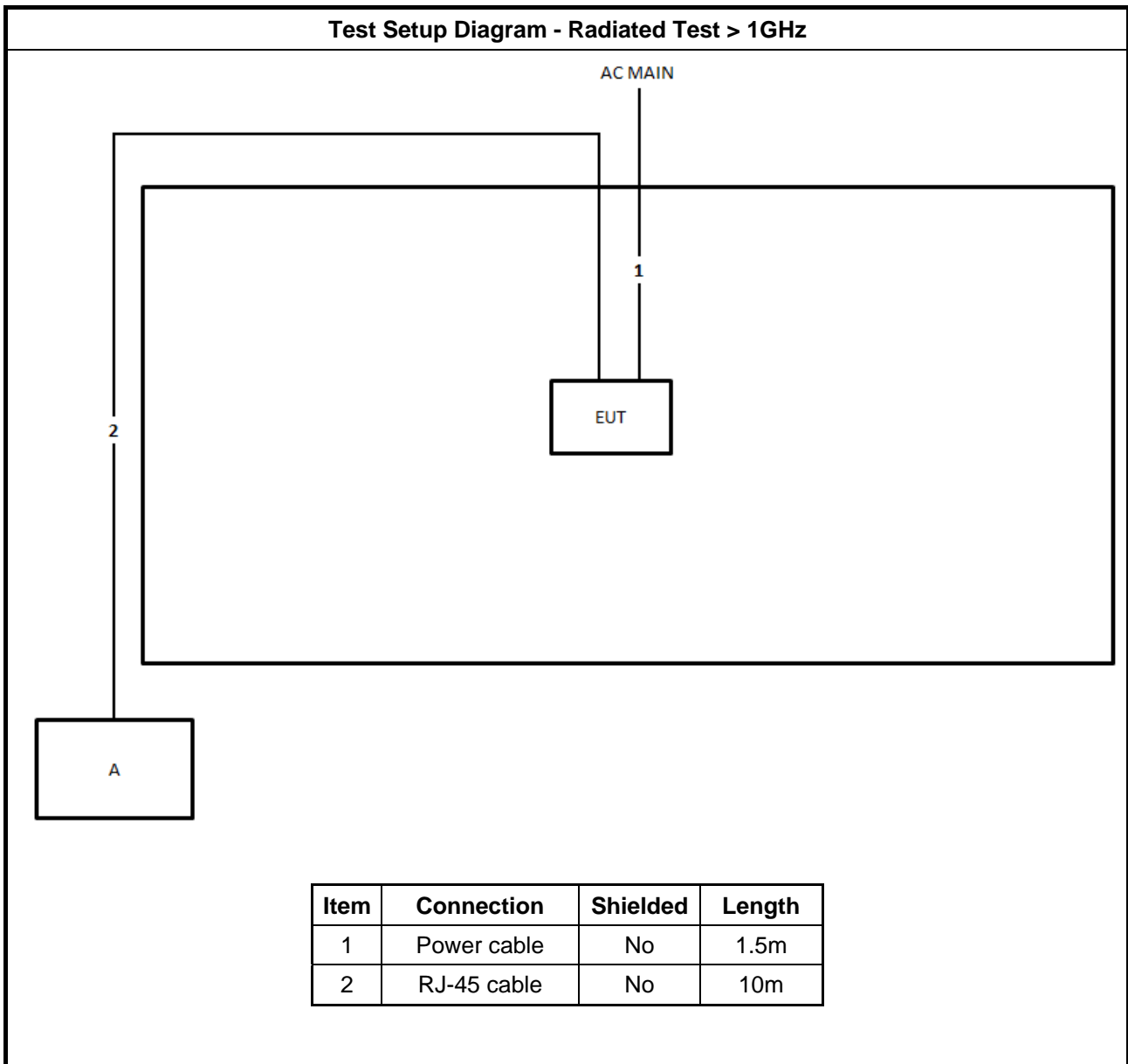


**Test Setup Diagram - Radiated Test < 1GHz**





Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m



### 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.

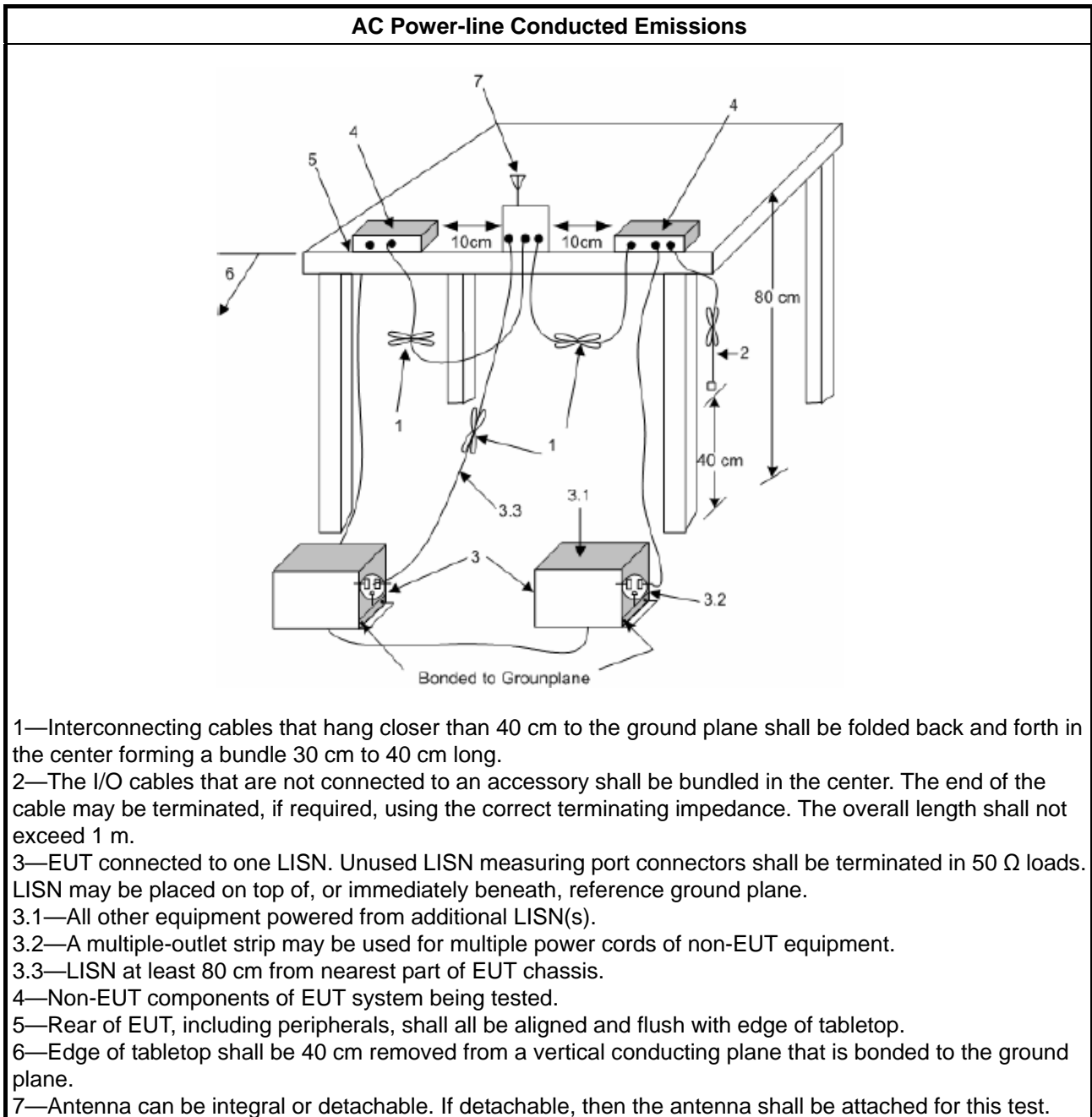
##### 3.1.2 Measuring Instruments

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
<b>Systems using digital modulation techniques:</b>
<ul style="list-style-type: none"> <li>▪ 6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul>

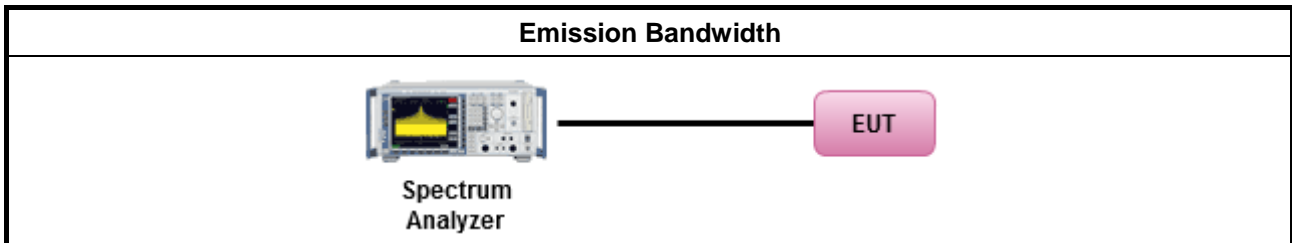
#### 3.2.2 Measuring Instruments

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"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 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"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

#### 3.3.2 Measuring Instruments

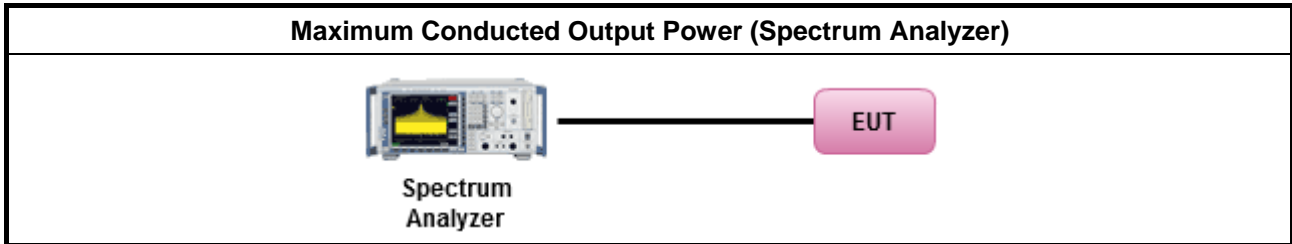
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> <li>▪ Maximum Conducted Output Power</li> </ul>	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math> (calculated in linear unit [mW] and transfer to log unit [dBm])  <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>	

### 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"> <li>▪ Power Spectral Density (PSD) <math>\leq</math> 8 dBm/3kHz</li> </ul>

#### 3.4.2 Measuring Instruments

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

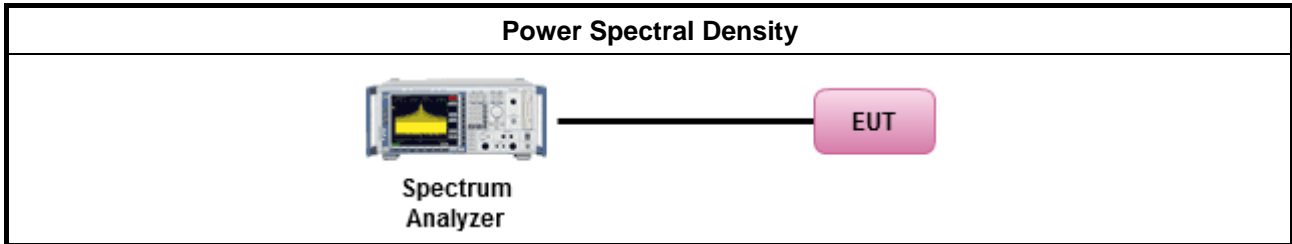
#### 3.4.3 Test Procedures

Test Method				
<ul style="list-style-type: none"> <li>▪ 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).</li> </ul>				
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD. [duty cycle $\geq$ 98% or external video / power trigger]				
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPSD-1.				
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPSD-2.				
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPSD-3. duty cycle < 98% and average over on/off periods with duty factor				
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPSD-1A. (alternative).				
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-2A. (alternative)				
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.8 Method AVGPSD-3A. (alternative)				
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>				
<ul style="list-style-type: none"> <li>▪ If The EUT supports multiple transmit chains using options given below:           <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> <td>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.</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>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,</td> </tr> </tbody> </table> </li> </ul>	<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 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,			



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 (dBc)
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.

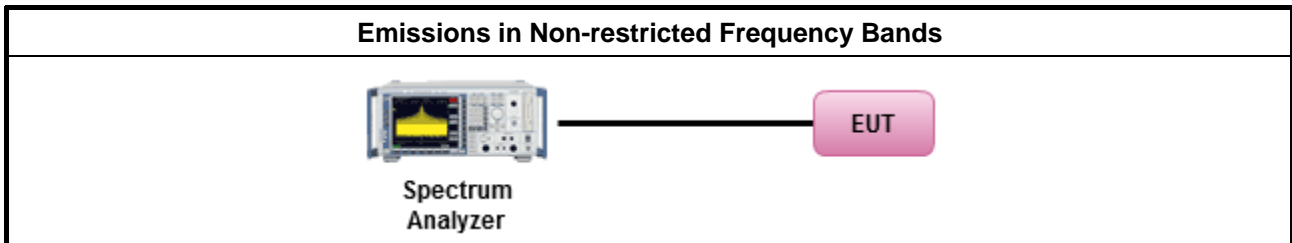
#### 3.5.2 Measuring Instruments

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"> <li>Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.</li> </ul>

#### 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.

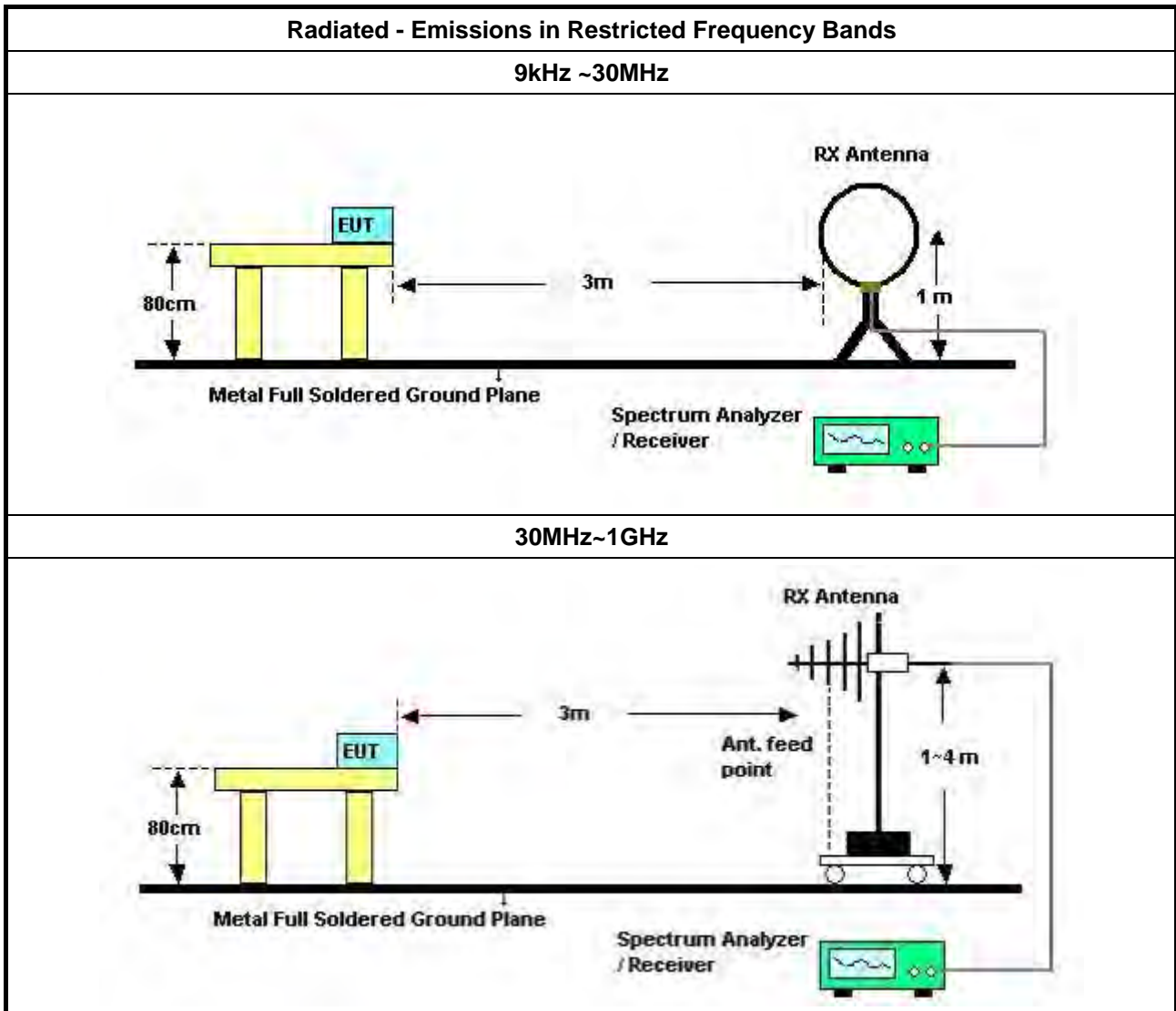


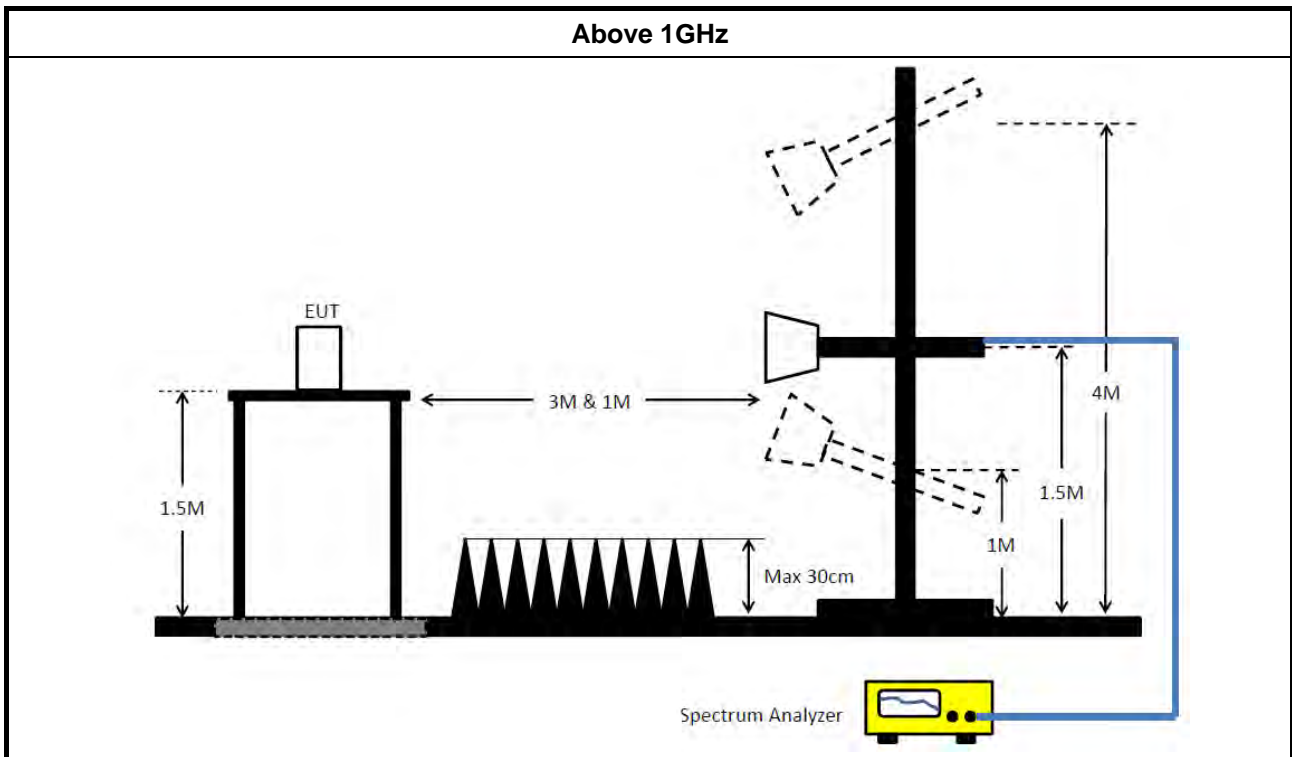


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq$ 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq$ 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074 clause 8.7 &amp; C63.10 clause 11.13.1, 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.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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             </li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>

**3.6.4 Test Setup**





### 3.6.5 Emissions in Restricted Frequency Bands (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

### 3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2018	Nov. 20, 2019	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 05, 2018	Nov. 04, 2019	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 17, 2018	Jan. 16, 2019	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Nov. 06, 2018	Nov. 05, 2019	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 18, 2019*	Mar. 17, 2021*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 03, 2018	Jul. 02, 2019	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jun. 22, 2018	Jun. 21, 2019	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 01, 2018	May 31, 2019	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

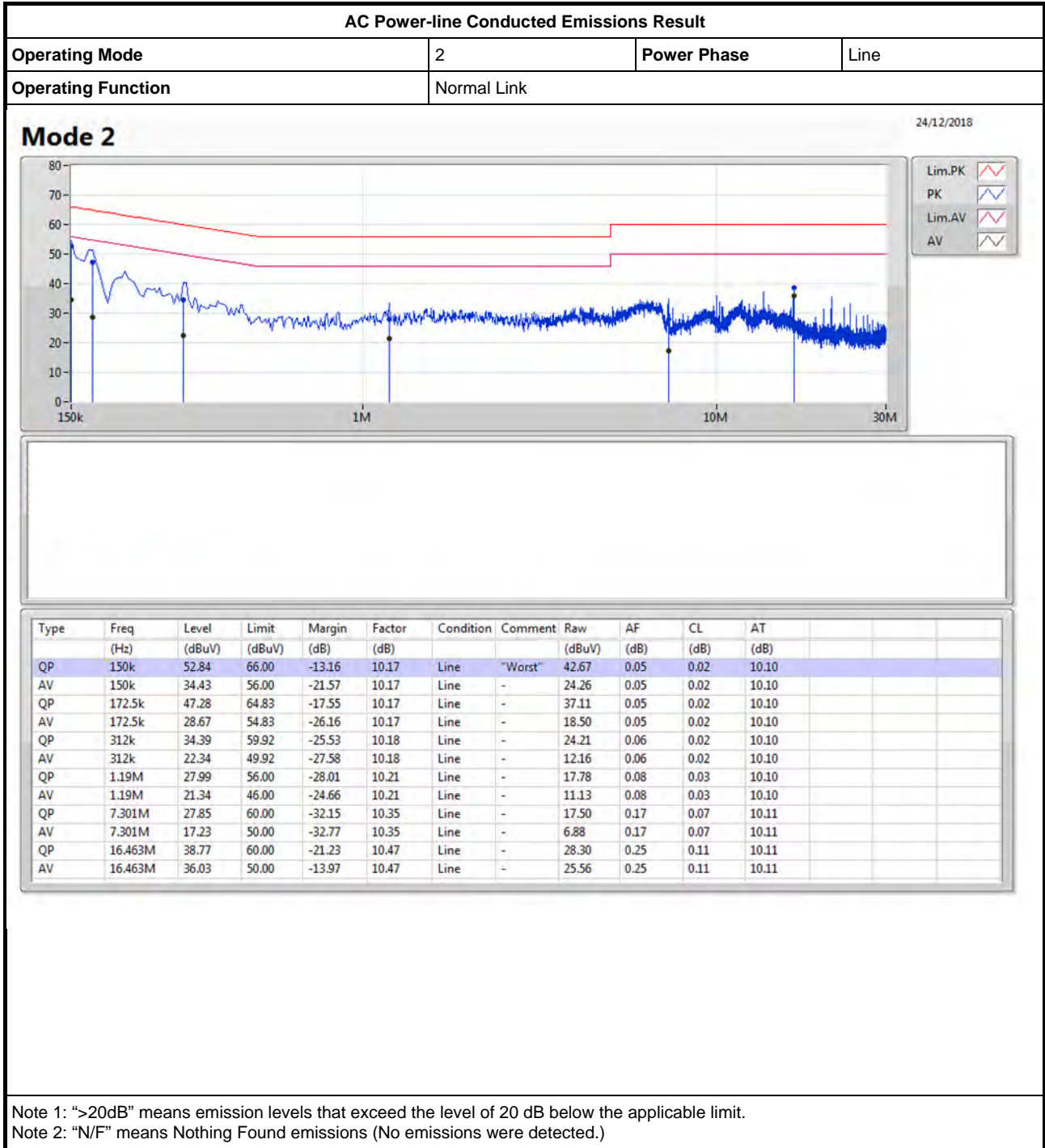
\*\*\* Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.



# AC Power-line Conducted Emissions Result

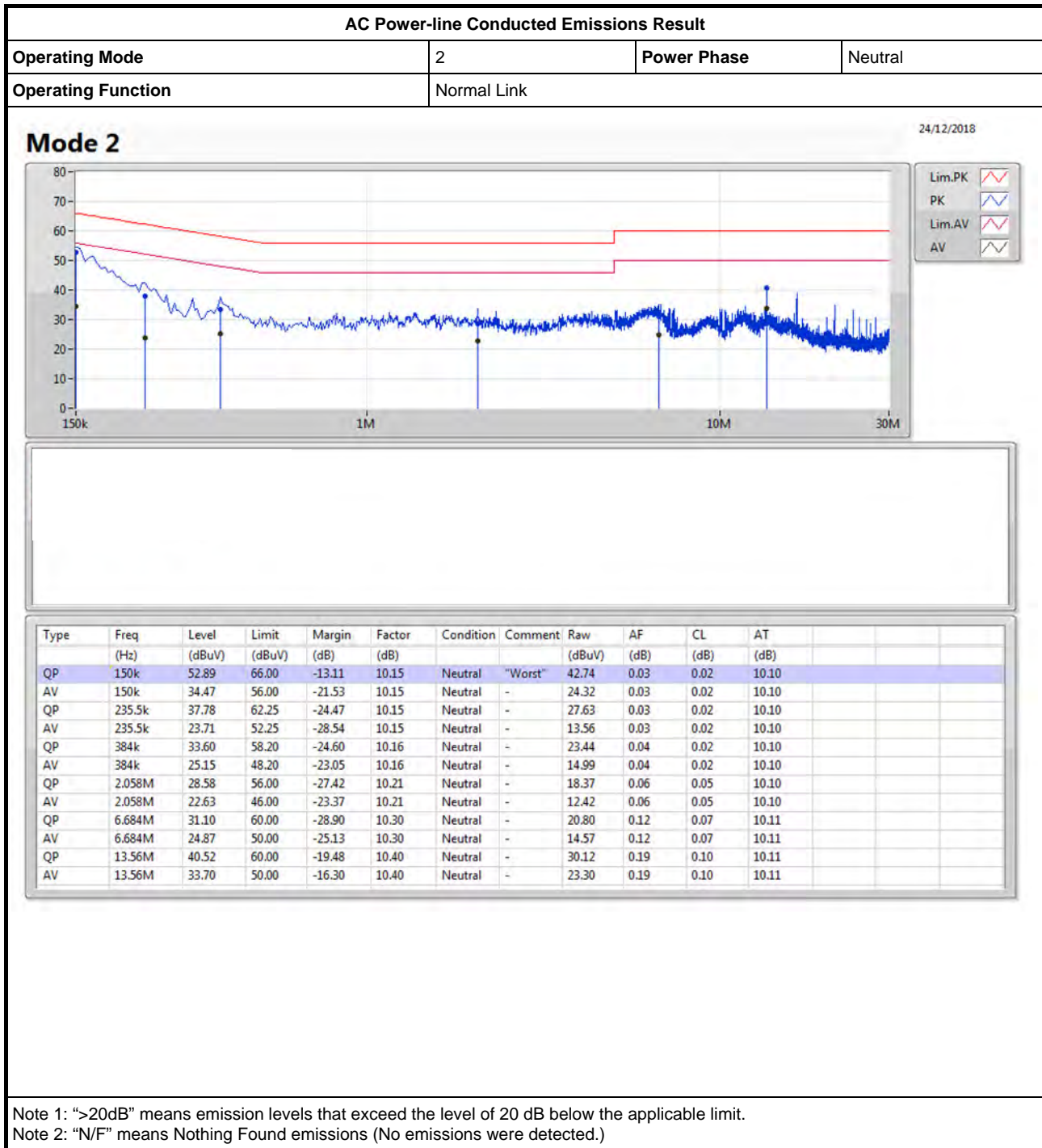
Appendix A





# AC Power-line Conducted Emissions Result

Appendix A





**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	9.05M	13.593M	13M6G1D	7.55M	12.894M
802.11g_Nss1,(6Mbps)_2TX	16.35M	16.692M	16M7D1D	16.275M	16.492M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.575M	17.766M	17M8D1D	17.55M	17.691M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.35M	36.332M	36M3D1D	35.65M	36.182M

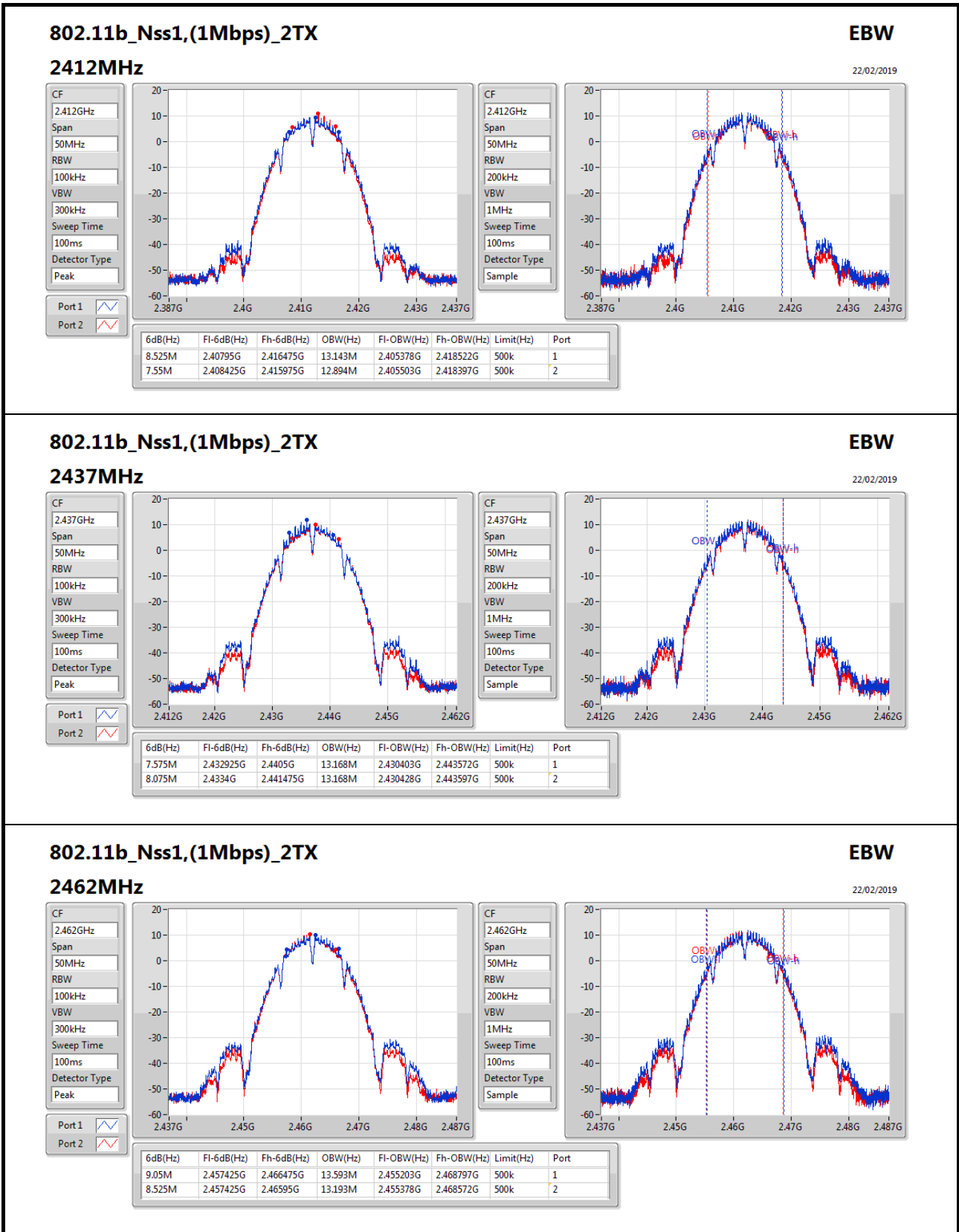
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

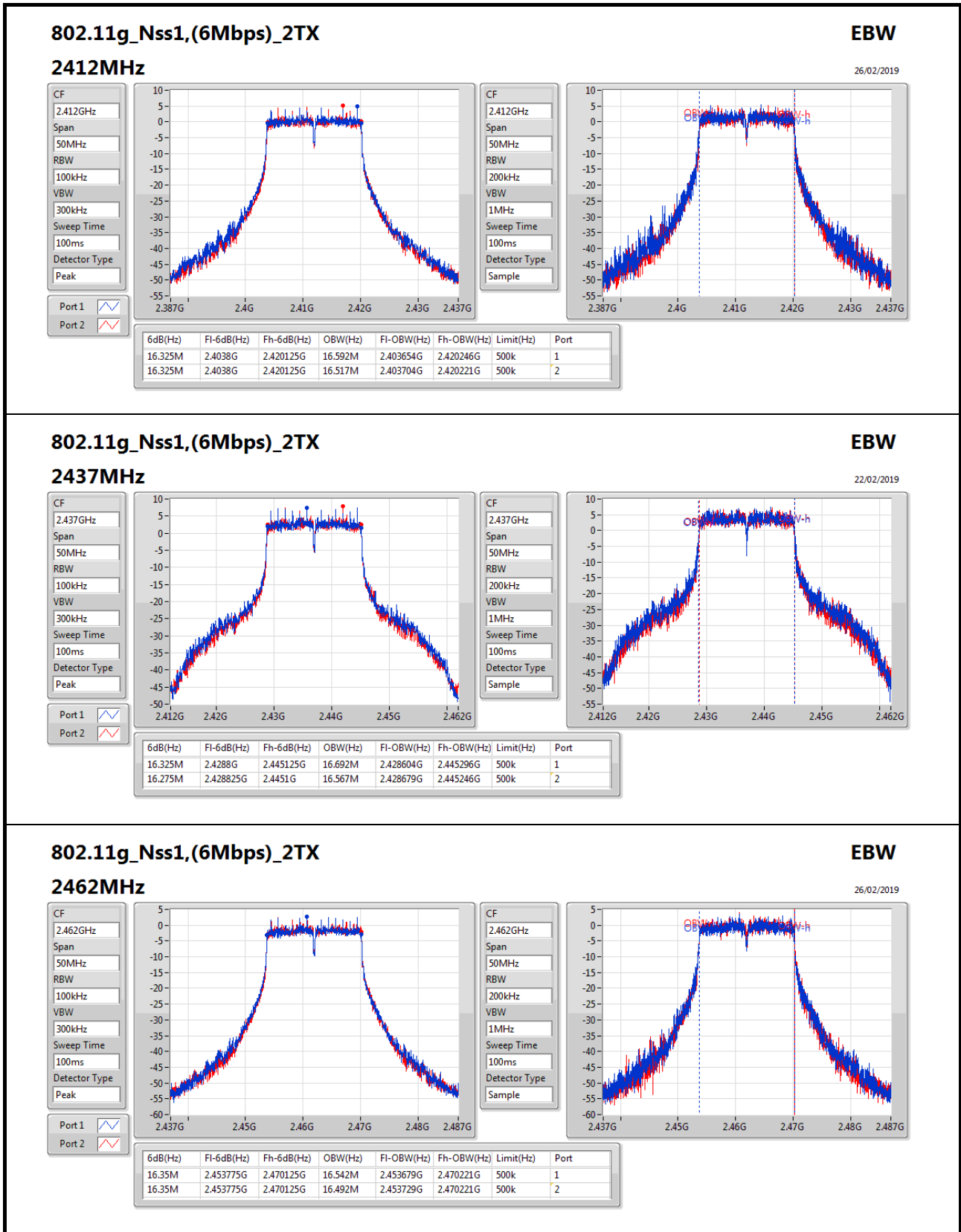
**Result**

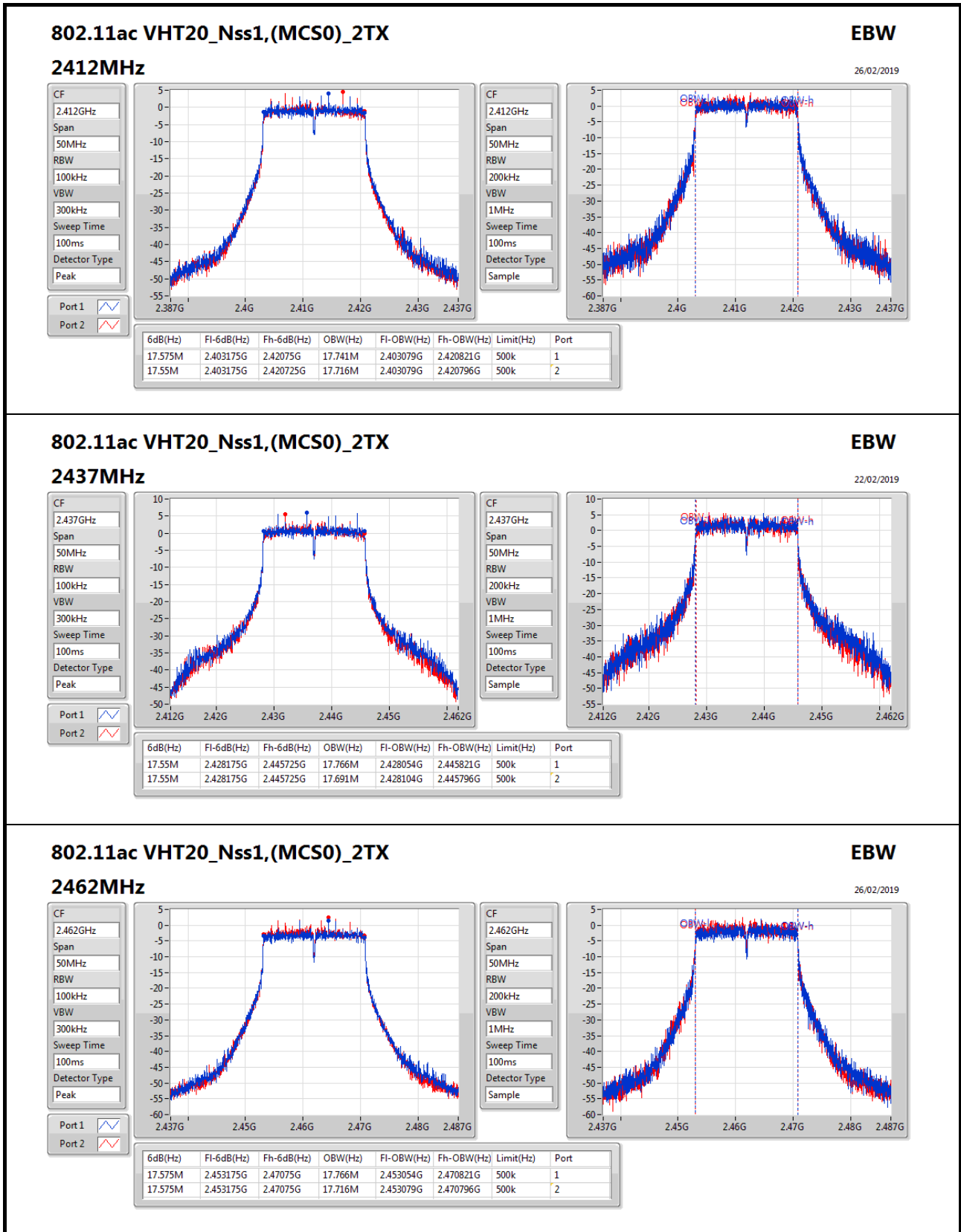
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	13.143M	7.55M	12.894M
2437MHz	Pass	500k	7.575M	13.168M	8.075M	13.168M
2462MHz	Pass	500k	9.05M	13.593M	8.525M	13.193M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.592M	16.325M	16.517M
2437MHz	Pass	500k	16.325M	16.692M	16.275M	16.567M
2462MHz	Pass	500k	16.35M	16.542M	16.35M	16.492M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.575M	17.741M	17.55M	17.716M
2437MHz	Pass	500k	17.55M	17.766M	17.55M	17.691M
2462MHz	Pass	500k	17.575M	17.766M	17.575M	17.716M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.05M	36.182M	36.3M	36.332M
2437MHz	Pass	500k	36.3M	36.282M	36.35M	36.282M
2452MHz	Pass	500k	35.9M	36.332M	35.65M	36.282M

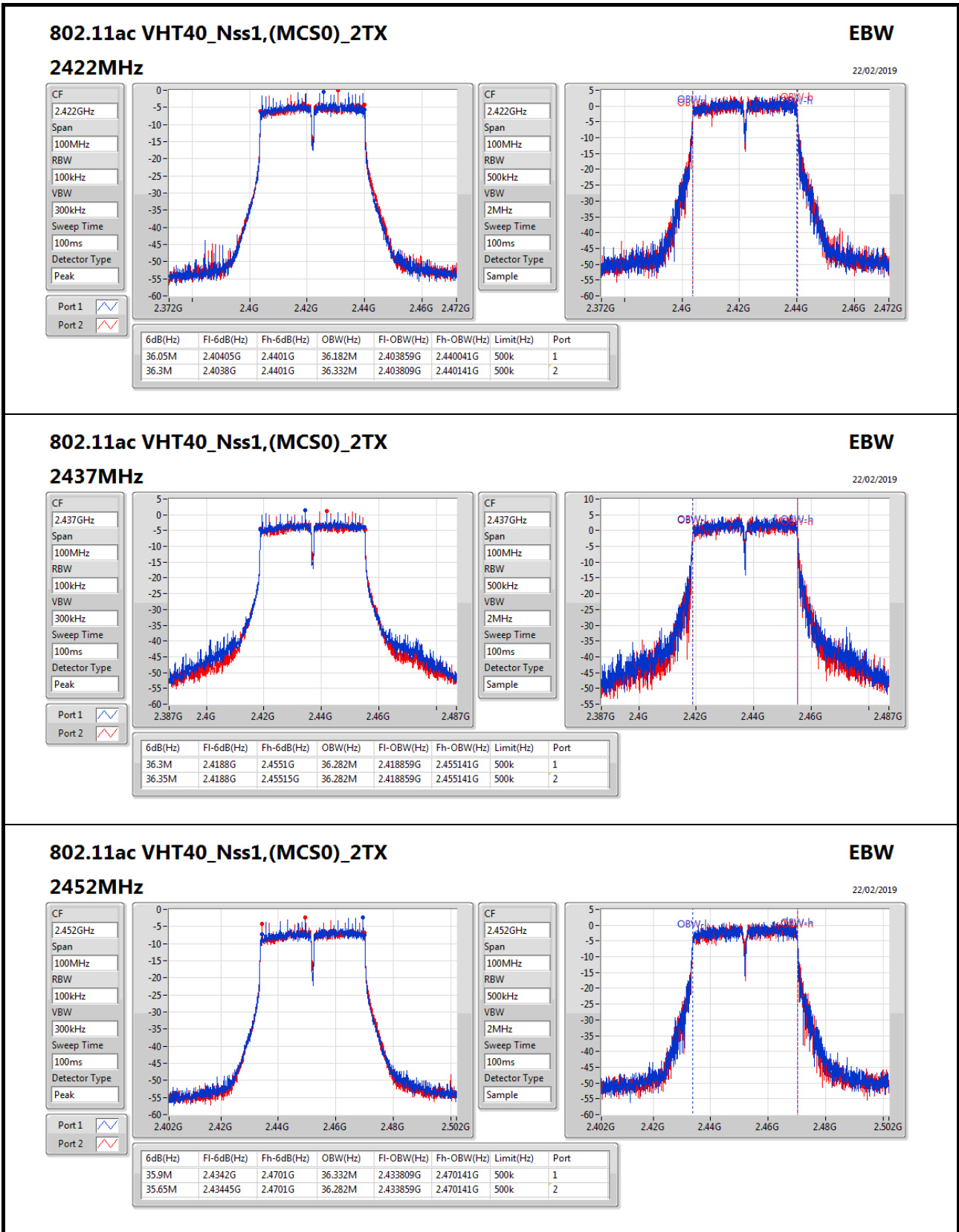
**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;













Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.28	0.21281
802.11g_Nss1,(6Mbps)_2TX	22.22	0.16672
802.11ac VHT20_Nss1,(MCS0)_2TX	20.65	0.11614
802.11ac VHT40_Nss1,(MCS0)_2TX	18.61	0.07261

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.17	20.30	20.06	23.19	30.00
2437MHz	Pass	5.17	20.37	20.16	23.28	30.00
2457MHz	Pass	5.17	20.20	20.18	23.20	30.00
2462MHz	Pass	5.17	20.21	20.24	23.24	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.17	16.86	16.66	19.77	30.00
2417MHz	Pass	5.17	19.11	18.99	22.06	30.00
2437MHz	Pass	5.17	19.24	19.17	22.22	30.00
2457MHz	Pass	5.17	18.92	18.80	21.87	30.00
2462MHz	Pass	5.17	14.63	14.73	17.69	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.17	16.00	16.11	19.07	30.00
2417MHz	Pass	5.17	17.62	17.54	20.59	30.00
2437MHz	Pass	5.17	17.68	17.60	20.65	30.00
2457MHz	Pass	5.17	17.55	17.69	20.63	30.00
2462MHz	Pass	5.17	13.81	14.39	17.12	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.17	14.39	14.23	17.32	30.00
2437MHz	Pass	5.17	15.80	15.40	18.61	30.00
2447MHz	Pass	5.17	13.76	13.77	16.78	30.00
2452MHz	Pass	5.17	12.28	12.61	15.46	30.00

DG = Directional Gain; Port X = Port X output power  
 Note : Conducted average output power is for reference only



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-5.37
802.11g_Nss1,(6Mbps)_2TX	-6.59
802.11ac VHT20_Nss1,(MCS0)_2TX	-7.93
802.11ac VHT40_Nss1,(MCS0)_2TX	-12.35

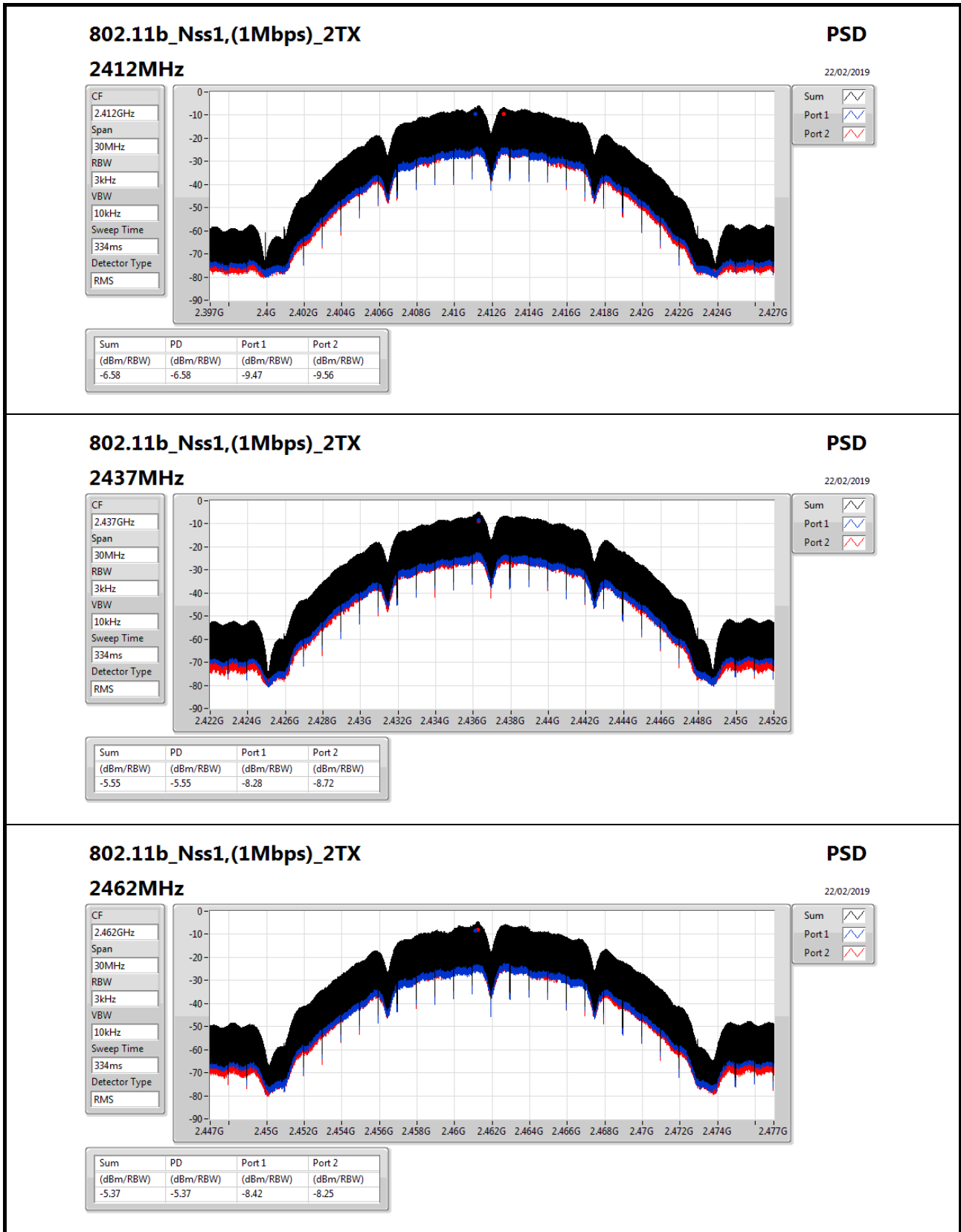
RBW=3kHz.

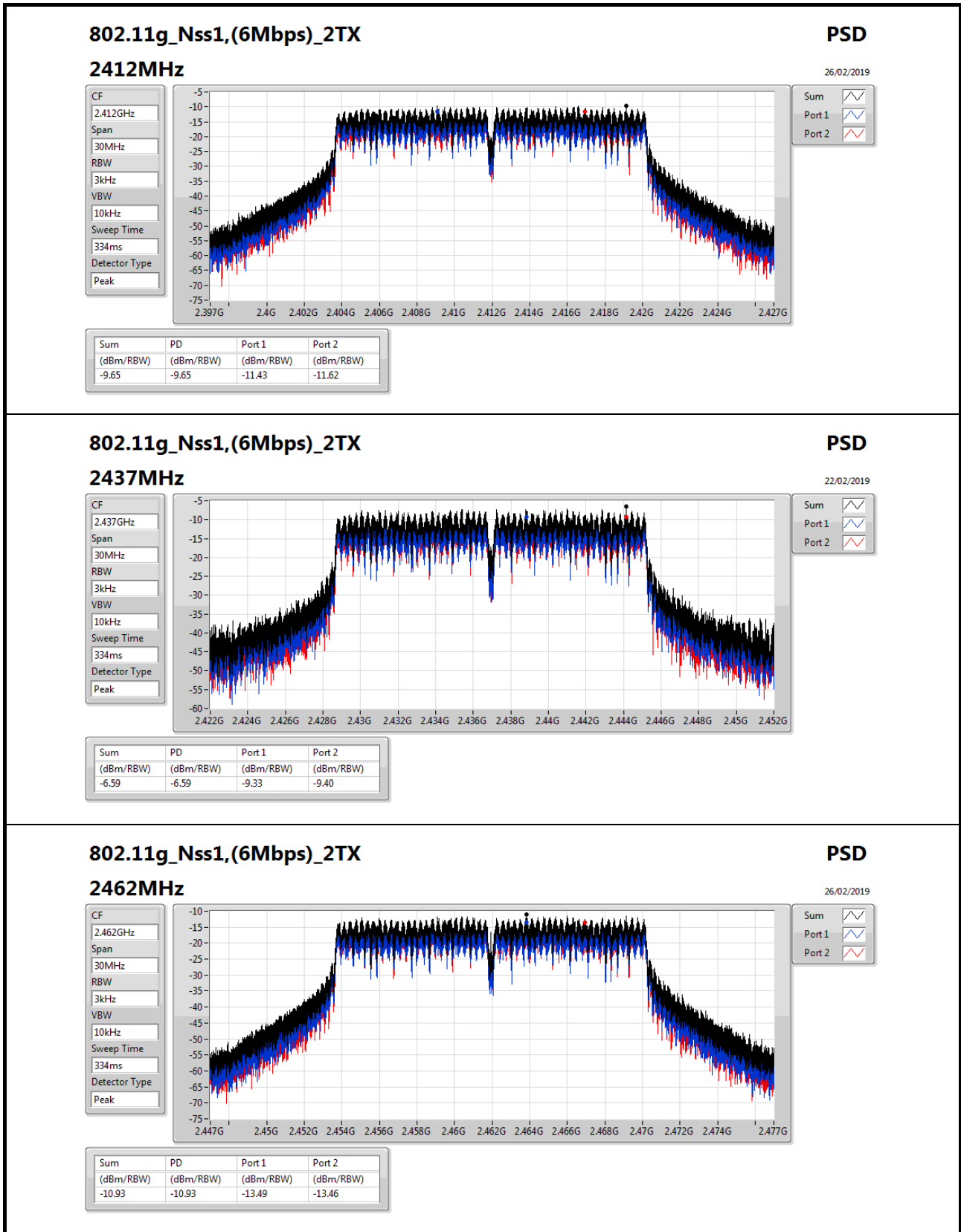
Result

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	7.57	-9.47	-9.56	-6.58	6.43
2437MHz	Pass	7.57	-8.28	-8.72	-5.55	6.43
2462MHz	Pass	7.57	-8.42	-8.25	-5.37	6.43
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.57	-11.43	-11.62	-9.65	6.43
2437MHz	Pass	7.57	-9.33	-9.40	-6.59	6.43
2462MHz	Pass	7.57	-13.49	-13.46	-10.93	6.43
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.57	-11.75	-11.89	-9.39	6.43
2437MHz	Pass	7.57	-10.64	-10.79	-7.93	6.43
2462MHz	Pass	7.57	-13.16	-14.14	-11.84	6.43
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.57	-15.72	-15.81	-12.94	6.43
2437MHz	Pass	7.57	-14.60	-14.71	-12.35	6.43
2452MHz	Pass	7.57	-17.55	-16.87	-14.53	6.43

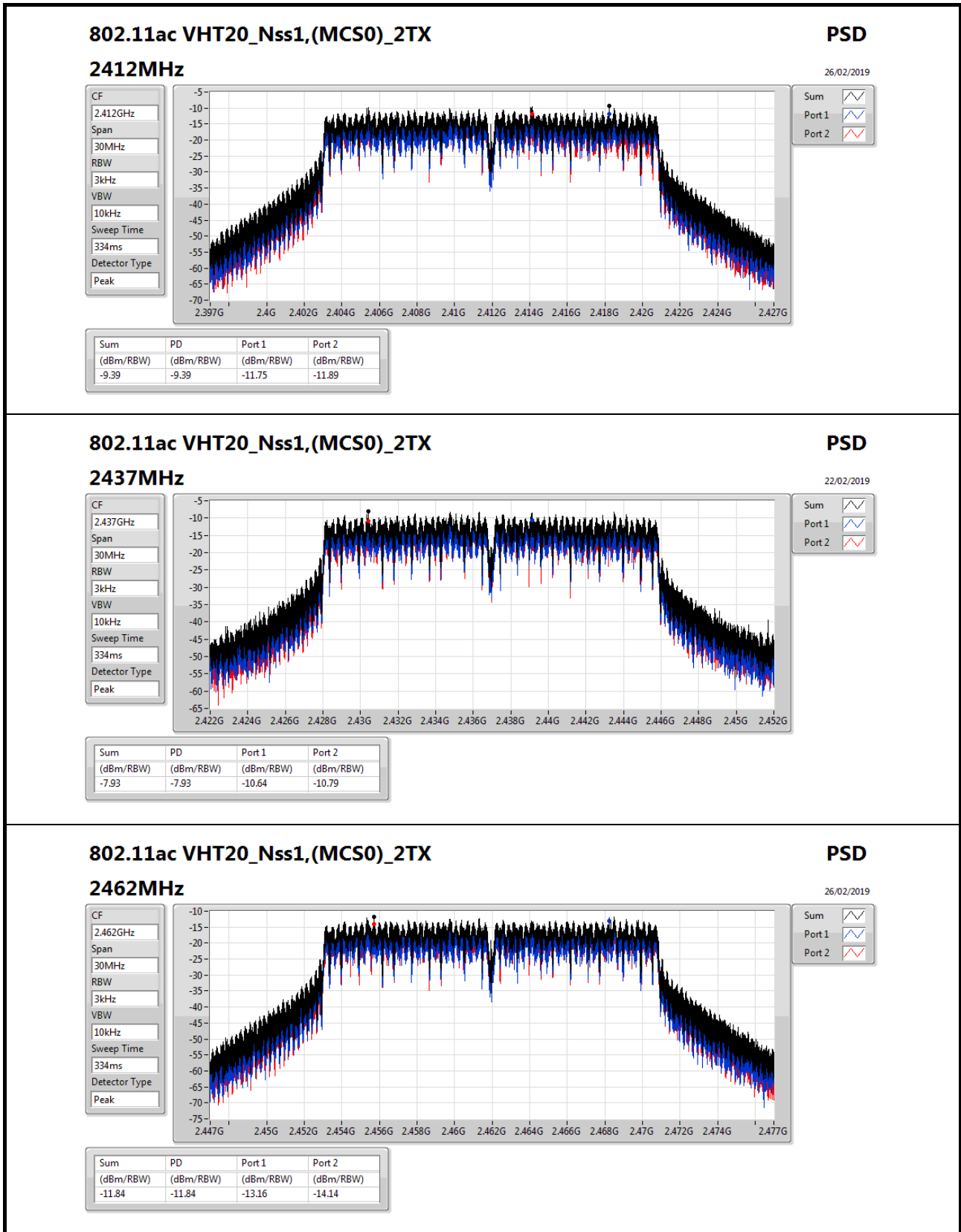
DG = Directional Gain; RBW=3kHz;

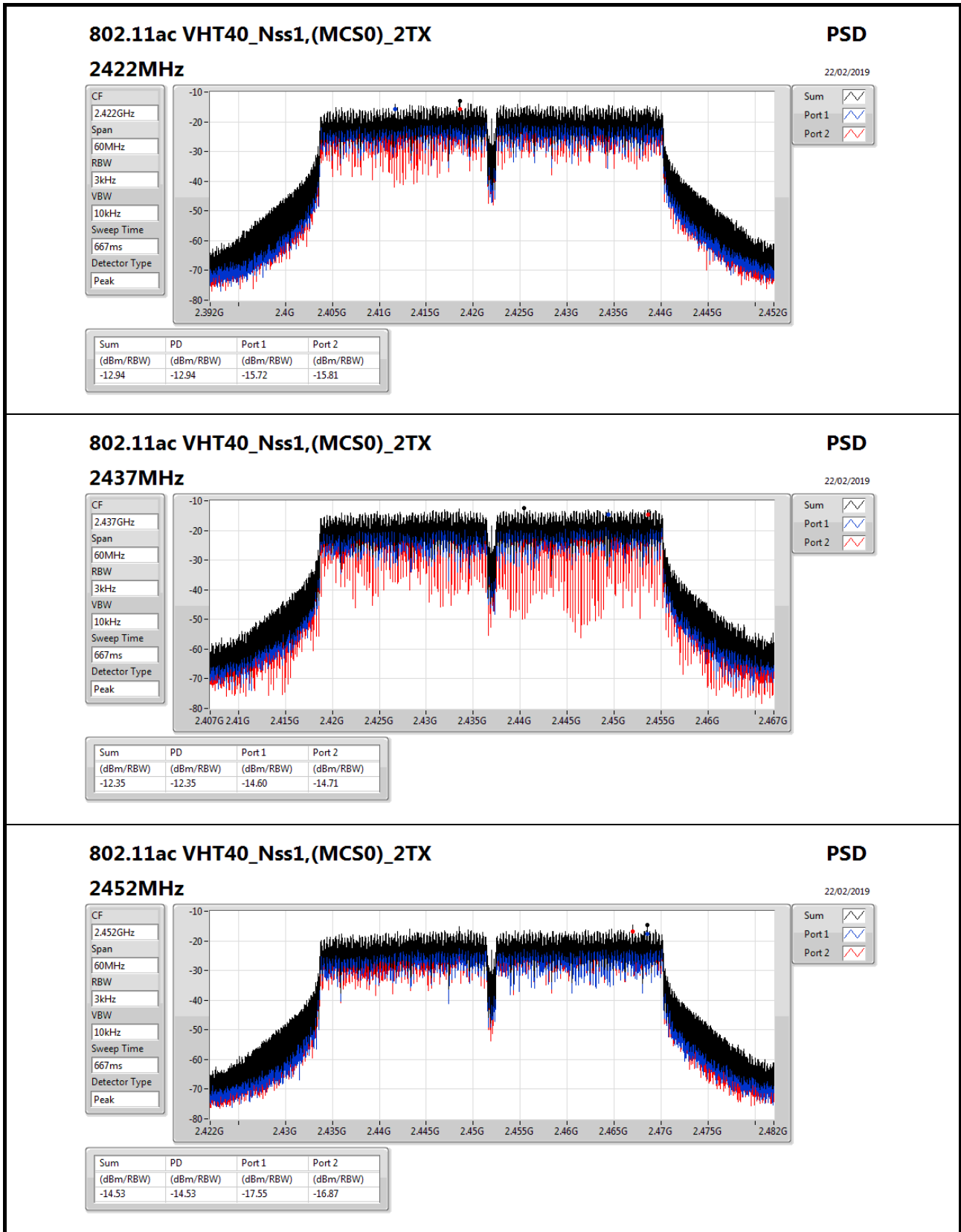
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port Xpower density;











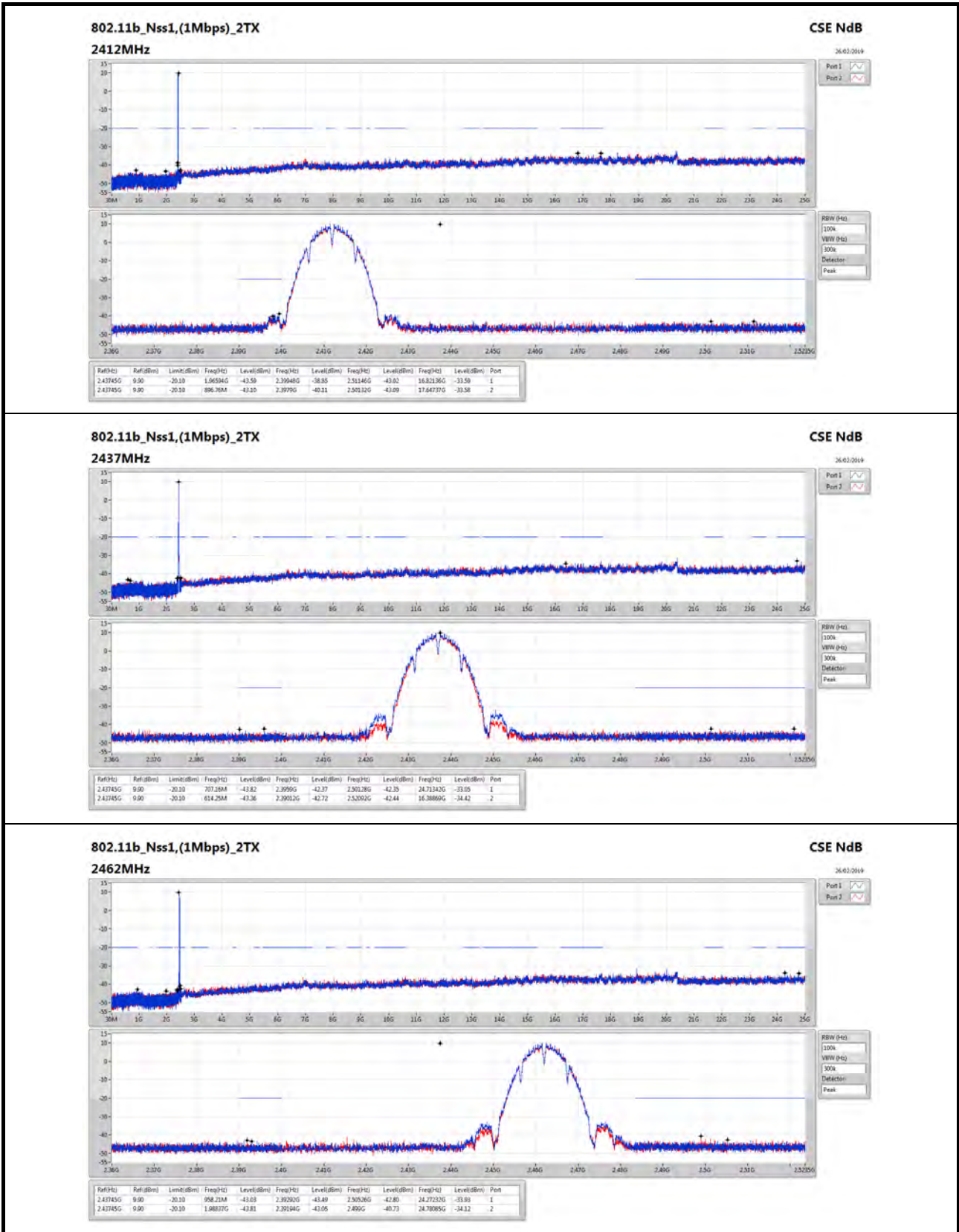


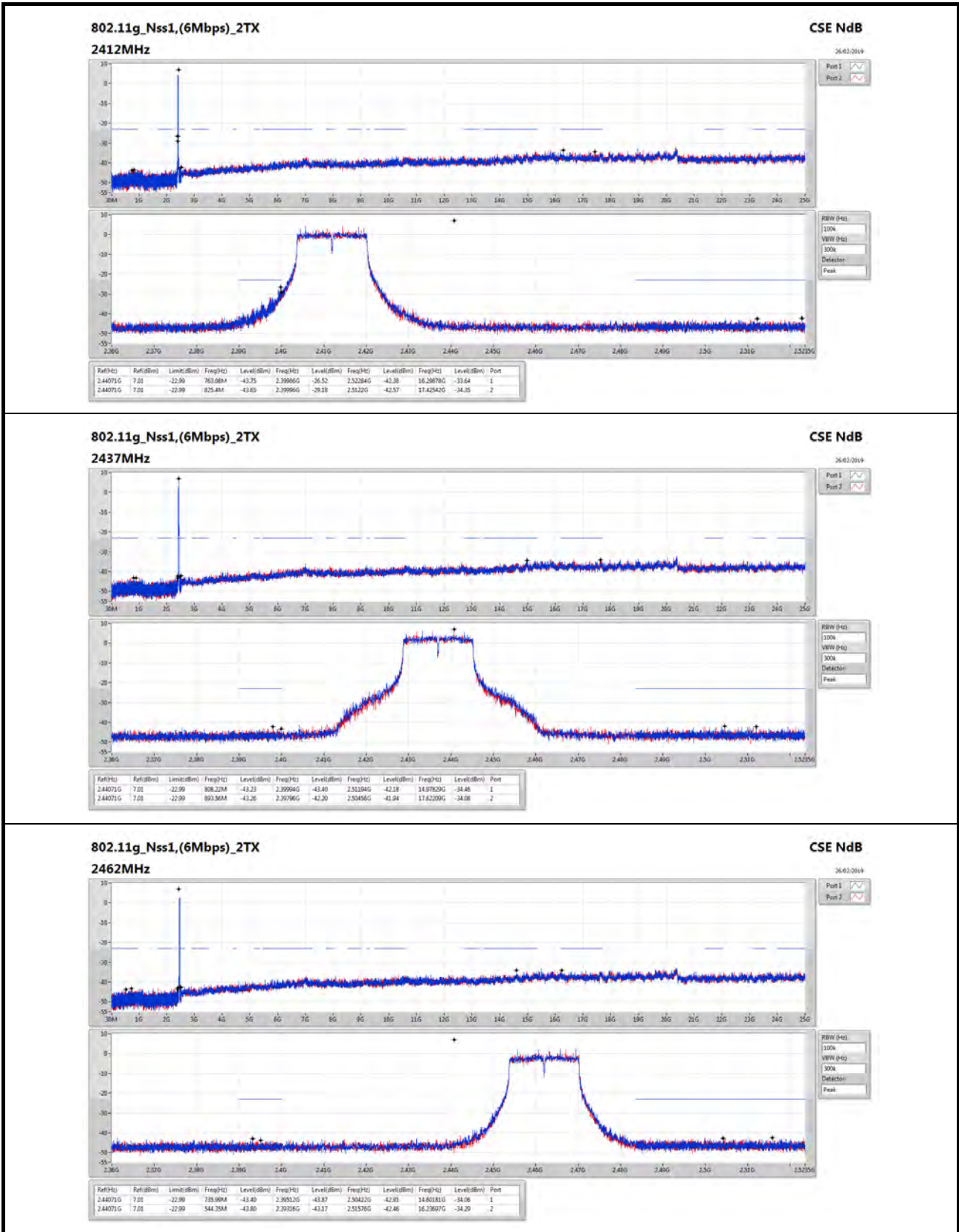
Summary

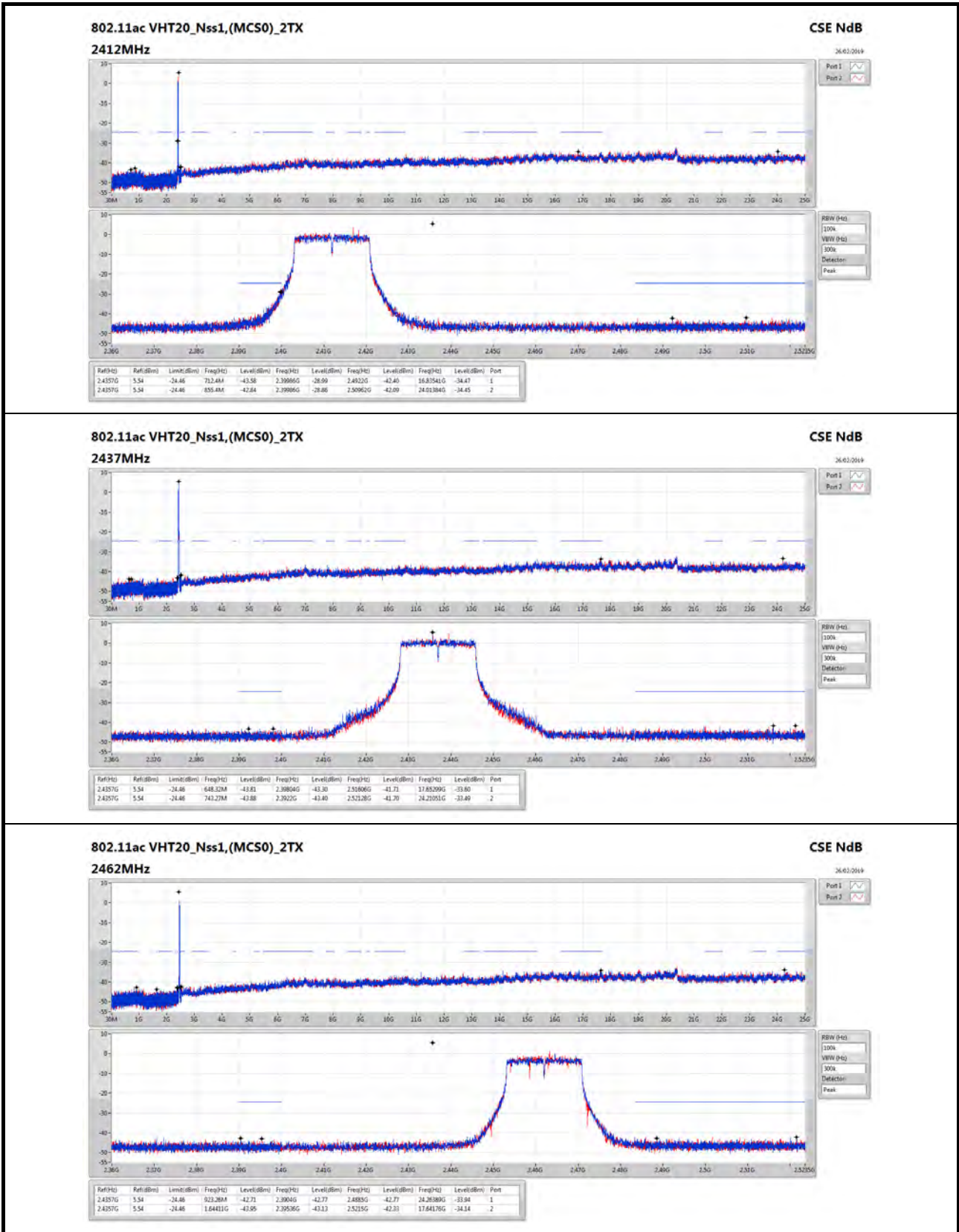
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43745G	9.90	-20.10	707.16M	-43.82	2.3959G	-42.37	2.50128G	-42.35	24.71342G	-33.05	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44071G	7.01	-22.99	763.08M	-43.75	2.39986G	-26.52	2.52284G	-42.38	16.29878G	-33.64	1
802.11ac_VHT20_Nss1,(MCS0)_2TX	Pass	2.4357G	5.54	-24.46	855.4M	-42.84	2.39986G	-28.86	2.50962G	-42.09	24.01384G	-34.45	2
802.11ac_VHT40_Nss1,(MCS0)_2TX	Pass	2.44572G	0.86	-29.14	720.15M	-42.69	2.39852G	-40.90	2.5079G	-42.95	23.33689G	-33.16	1

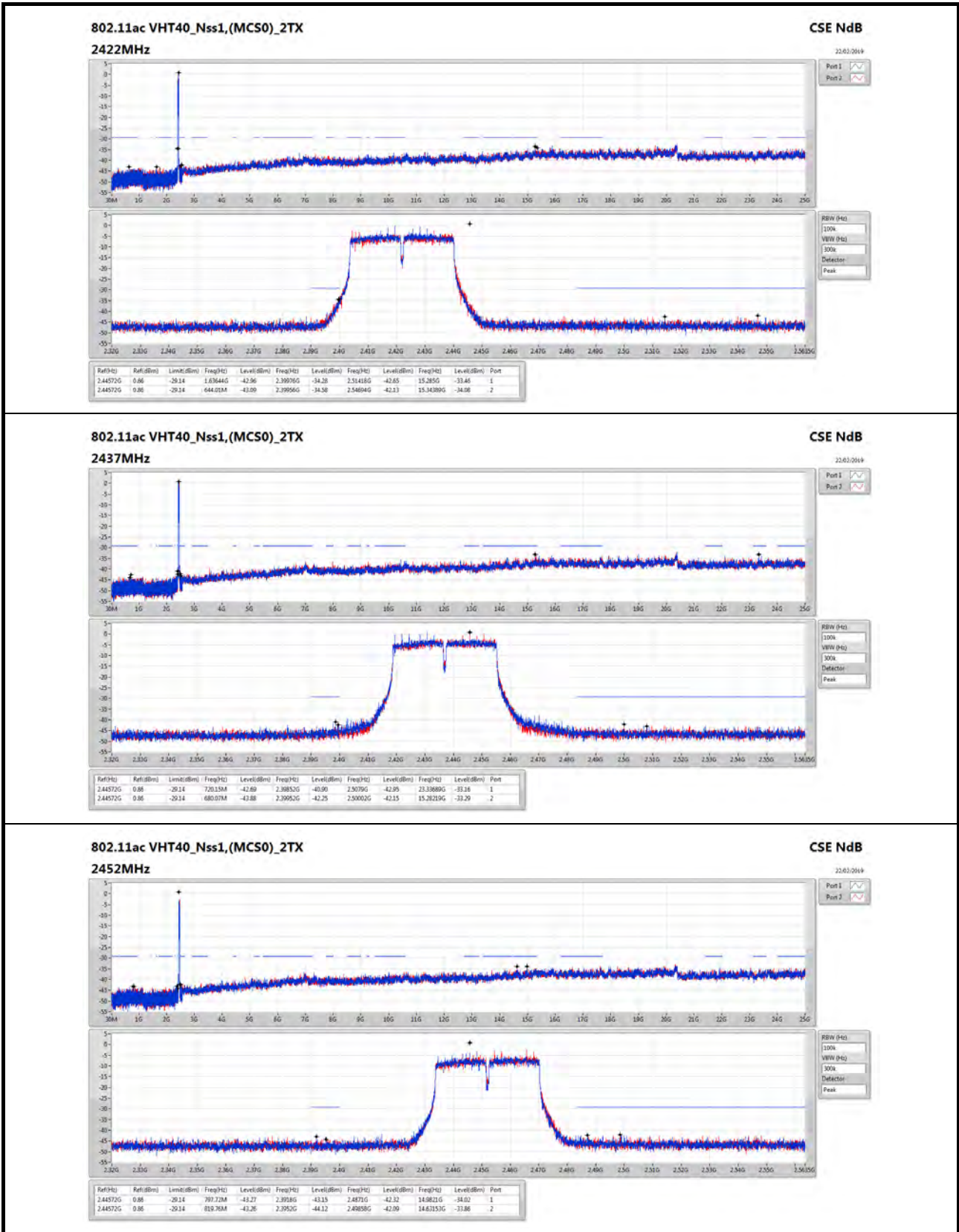
Result

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	2.43745G	9.90	-20.10	1.96594G	-43.59	2.39948G	-38.85	2.51146G	-43.02	16.82136G	-33.59	1
2412MHz	Pass	2.43745G	9.90	-20.10	896.76M	-43.10	2.3979G	-40.11	2.50132G	-43.09	17.64737G	-33.58	2
2437MHz	Pass	2.43745G	9.90	-20.10	707.16M	-43.82	2.3959G	-42.37	2.50128G	-42.35	24.71342G	-33.05	1
2437MHz	Pass	2.43745G	9.90	-20.10	614.25M	-43.36	2.39012G	-42.72	2.52092G	-42.44	16.38869G	-34.42	2
2462MHz	Pass	2.43745G	9.90	-20.10	958.21M	-43.03	2.39292G	-43.49	2.50526G	-42.80	24.27232G	-33.93	1
2462MHz	Pass	2.43745G	9.90	-20.10	1.98837G	-43.81	2.39194G	-43.05	2.499G	-40.73	24.78085G	-34.12	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44071G	7.01	-22.99	763.08M	-43.75	2.39986G	-26.52	2.52284G	-42.38	16.29878G	-33.64	1
2412MHz	Pass	2.44071G	7.01	-22.99	825.4M	-43.65	2.39996G	-29.18	2.5122G	-42.57	17.42542G	-34.35	2
2437MHz	Pass	2.44071G	7.01	-22.99	808.22M	-43.23	2.39994G	-43.40	2.51194G	-42.18	14.97829G	-34.46	1
2437MHz	Pass	2.44071G	7.01	-22.99	893.56M	-43.26	2.39796G	-42.20	2.50456G	-41.94	17.62209G	-34.08	2
2462MHz	Pass	2.44071G	7.01	-22.99	735.99M	-43.40	2.39512G	-43.87	2.50422G	-42.91	14.60181G	-34.06	1
2462MHz	Pass	2.44071G	7.01	-22.99	544.35M	-43.80	2.39316G	-43.17	2.51576G	-42.46	16.23697G	-34.29	2
802.11ac_VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4357G	5.54	-24.46	712.4M	-43.58	2.39986G	-28.99	2.4922G	-42.40	16.83541G	-34.47	1
2412MHz	Pass	2.4357G	5.54	-24.46	855.4M	-42.84	2.39986G	-28.86	2.50962G	-42.09	24.01384G	-34.45	2
2437MHz	Pass	2.4357G	5.54	-24.46	648.32M	-43.81	2.39804G	-43.30	2.51606G	-41.71	17.65299G	-33.60	1
2437MHz	Pass	2.4357G	5.54	-24.46	743.27M	-43.88	2.3922G	-43.40	2.52128G	-41.70	24.21051G	-33.49	2
2462MHz	Pass	2.4357G	5.54	-24.46	923.26M	-42.71	2.3904G	-42.77	2.4885G	-42.77	24.26389G	-33.94	1
2462MHz	Pass	2.4357G	5.54	-24.46	1.64411G	-43.95	2.39536G	-43.13	2.5215G	-42.33	17.64176G	-34.14	2
802.11ac_VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44572G	0.86	-29.14	1.63644G	-42.96	2.39976G	-34.28	2.51418G	-42.65	15.285G	-33.46	1
2422MHz	Pass	2.44572G	0.86	-29.14	644.01M	-43.09	2.39956G	-34.58	2.54694G	-42.13	15.34389G	-34.08	2
2437MHz	Pass	2.44572G	0.86	-29.14	720.15M	-42.69	2.39852G	-40.90	2.5079G	-42.95	23.33689G	-33.16	1
2437MHz	Pass	2.44572G	0.86	-29.14	680.07M	-43.88	2.39952G	-42.25	2.50002G	-42.15	15.28219G	-33.29	2
2452MHz	Pass	2.44572G	0.86	-29.14	797.72M	-43.27	2.3918G	-43.15	2.4871G	-42.32	14.9821G	-34.02	1
2452MHz	Pass	2.44572G	0.86	-29.14	819.76M	-43.26	2.3952G	-44.12	2.49858G	-42.09	14.63153G	-33.86	2



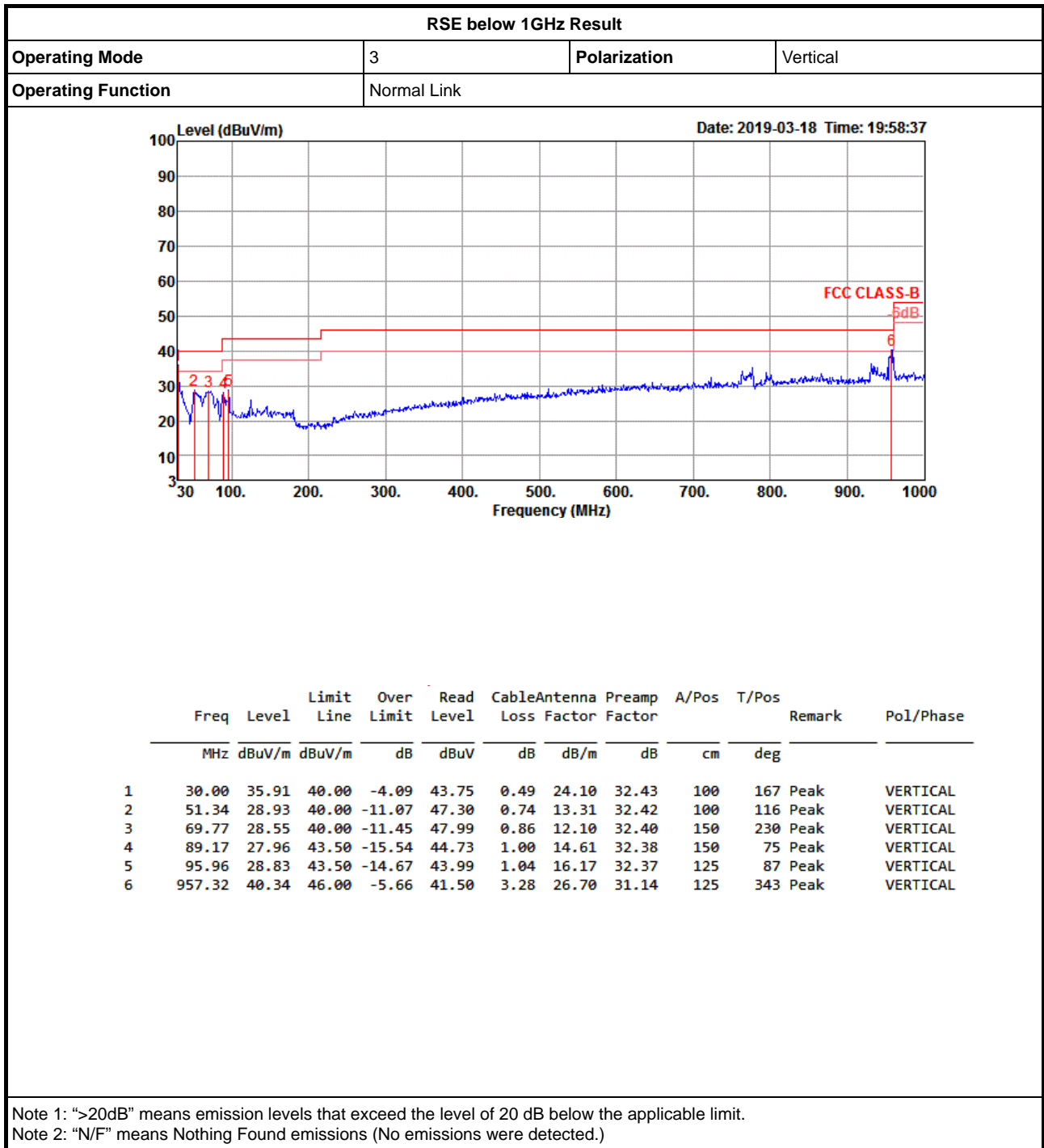








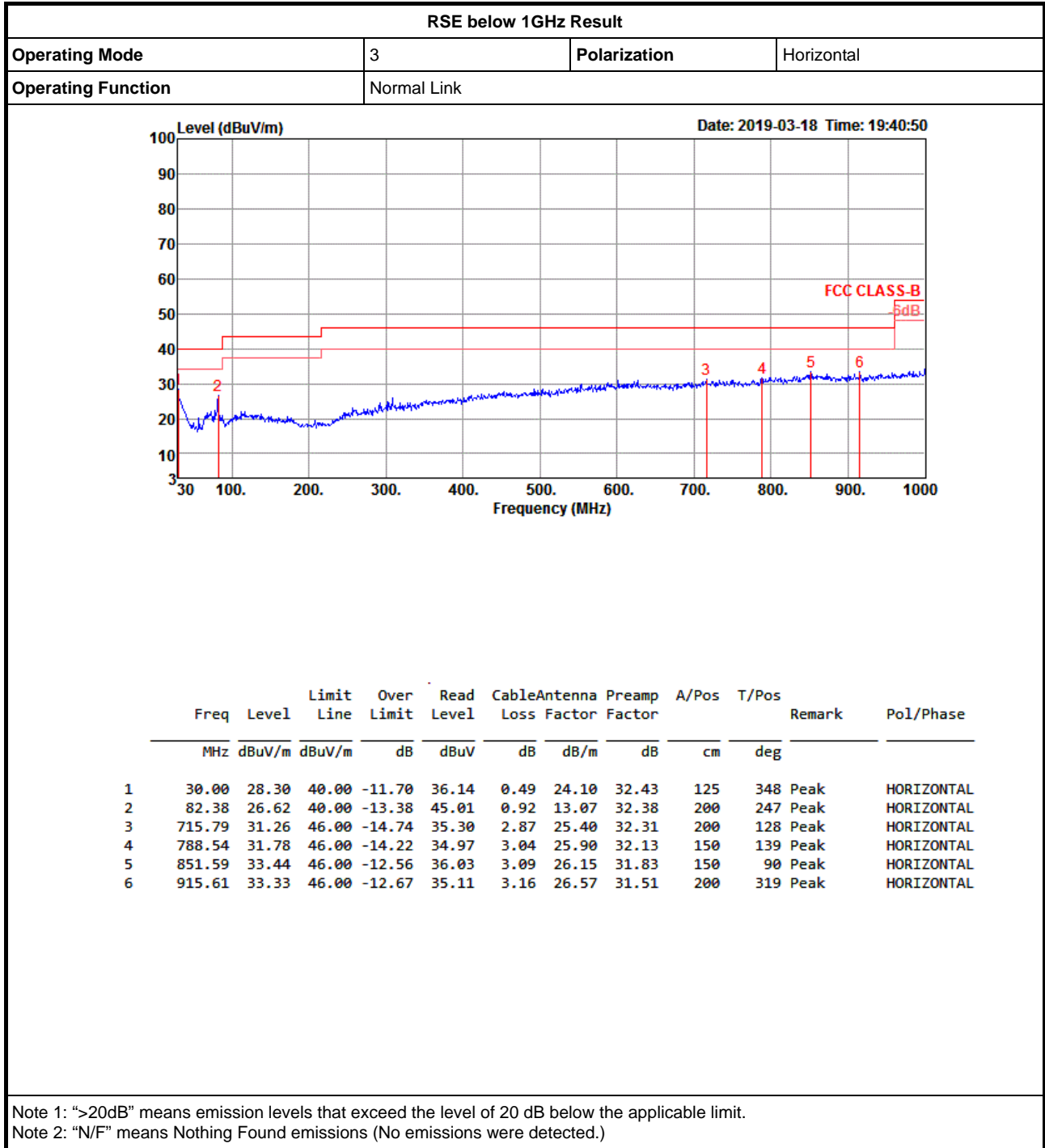
RSE below 1GHz Result







RSE below 1GHz Result





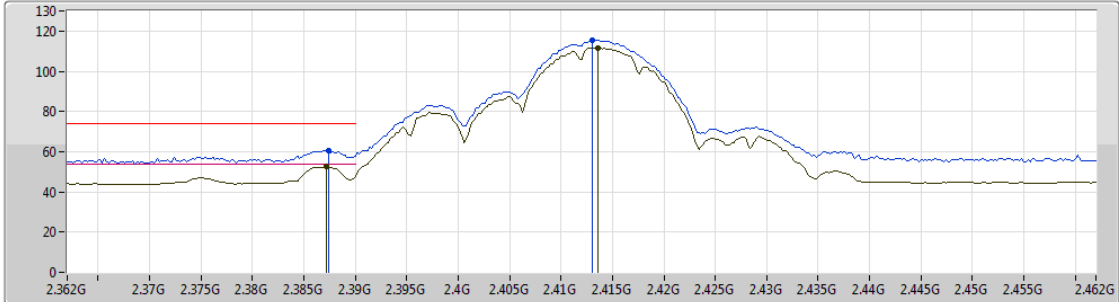
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
VHT40_Nss1,(MCS0)_2TX	Pass	AV	2.4844G	52.95	54.00	-1.05	33.36	3	Horizontal	55	1.32	-




802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2412MHz\_TX



Legend for the spectrum plot:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

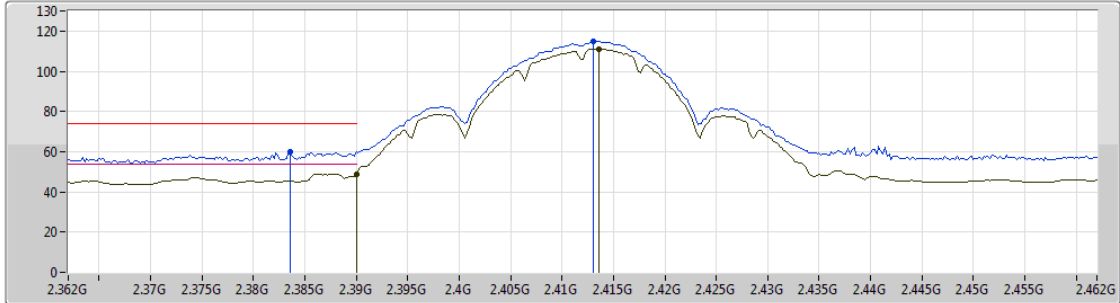
EUT\_Z\_2TX  
 Setting 21.5  
 03-L-2  
 FSP(100019)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3874G	60.77	74.00	-13.23	31.94	3	Vertical	227	2.97	-
AV	2.3872G	52.41	54.00	-1.59	31.94	3	Vertical	227	2.97	-
PK	2.413G	115.52	Inf	-Inf	32.02	3	Vertical	227	2.97	-
AV	2.4136G	111.74	Inf	-Inf	32.02	3	Vertical	227	2.97	-

802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2412MHz\_TX



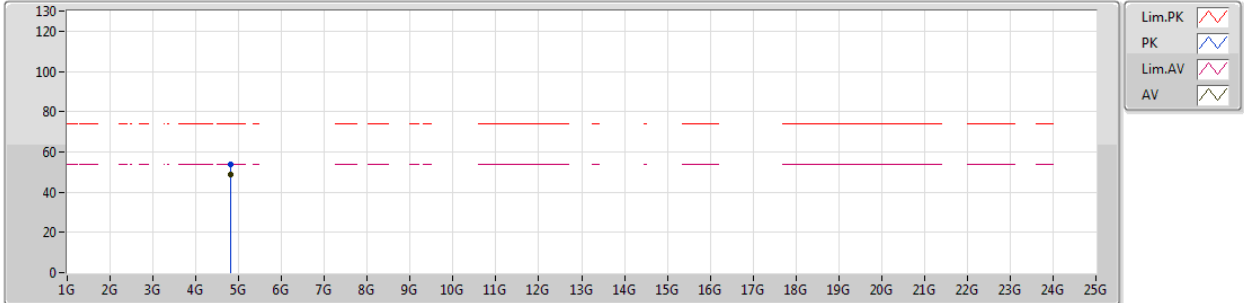
EUT\_Z\_2TX  
Setting 21.5  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3836G	59.90	74.00	-14.10	31.94	3	Horizontal	300	1.01	-
AV	2.39G	49.01	54.00	-4.99	31.95	3	Horizontal	300	1.01	-
PK	2.413G	115.08	Inf	-Inf	32.02	3	Horizontal	300	1.01	-
AV	2.4136G	111.19	Inf	-Inf	32.02	3	Horizontal	300	1.01	-

802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2412MHz\_TX



EUT\_Z\_2TX  
 Setting 21.5  
 03-L-2  
 FSP(100019)  
 #7

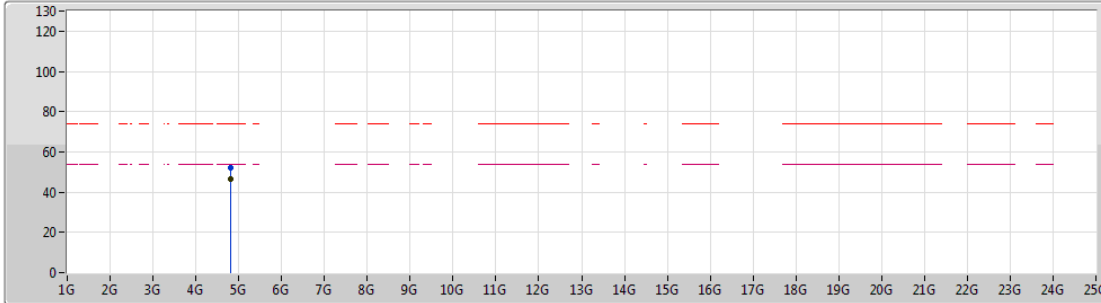
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.82402G	53.78	74.00	-20.22	4.95	3	Vertical	33	2.57	-
AV	4.82392G	48.88	54.00	-5.12	4.95	3	Vertical	33	2.57	-



802.11b\_Nss1,(1Mbps)\_2TX

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2412MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

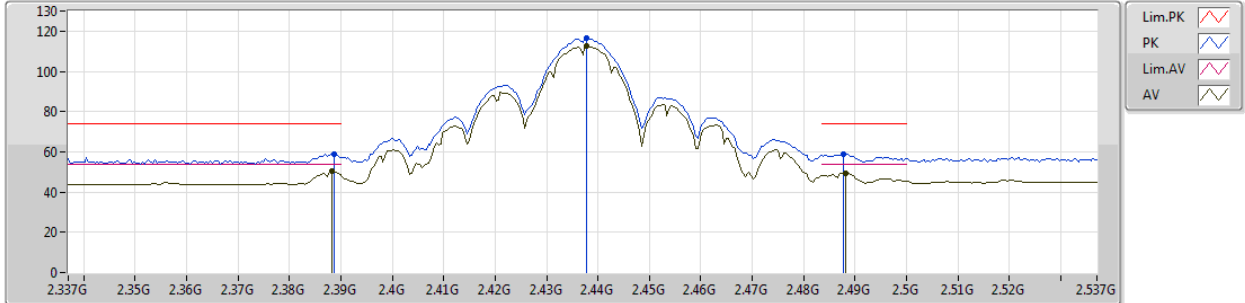
EUT\_Z\_2TX  
 Setting 21.5  
 03-L-2  
 FSP(100019)  
 #7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.82386G	52.12	74.00	-21.88	4.95	3	Horizontal	125	2.99	-
AV	4.82394G	46.57	54.00	-7.43	4.95	3	Horizontal	125	2.99	-

802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2437MHz\_TX



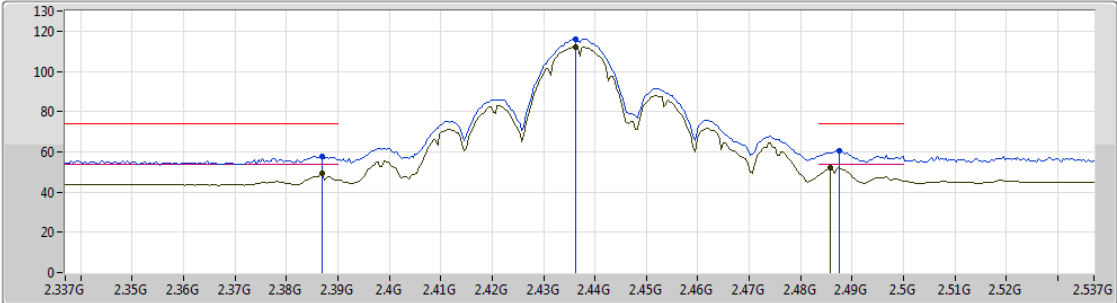
EUT\_Z\_2TX  
Setting 24  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3886G	59.08	74.00	-14.92	31.95	3	Vertical	245	2.92	-
AV	2.3882G	50.21	54.00	-3.79	31.95	3	Vertical	245	2.92	-
PK	2.4378G	116.47	Inf	-Inf	32.09	3	Vertical	245	2.92	-
AV	2.4378G	112.35	Inf	-Inf	32.09	3	Vertical	245	2.92	-
PK	2.4878G	58.81	74.00	-15.19	32.23	3	Vertical	245	2.92	-
AV	2.4882G	49.54	54.00	-4.46	32.24	3	Vertical	245	2.92	-

802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2437MHz\_TX



EUT\_Z\_2TX  
Setting 24  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.387G	57.64	74.00	-16.36	31.94	3	Horizontal	91	1.22	-
AV	2.387G	49.16	54.00	-4.84	31.94	3	Horizontal	91	1.22	-
PK	2.4362G	116.01	Inf	-Inf	32.09	3	Horizontal	91	1.22	-
AV	2.4362G	112.23	Inf	-Inf	32.09	3	Horizontal	91	1.22	-
PK	2.4874G	60.35	74.00	-13.65	32.23	3	Horizontal	91	1.22	-
AV	2.4858G	52.07	54.00	-1.93	32.23	3	Horizontal	91	1.22	-

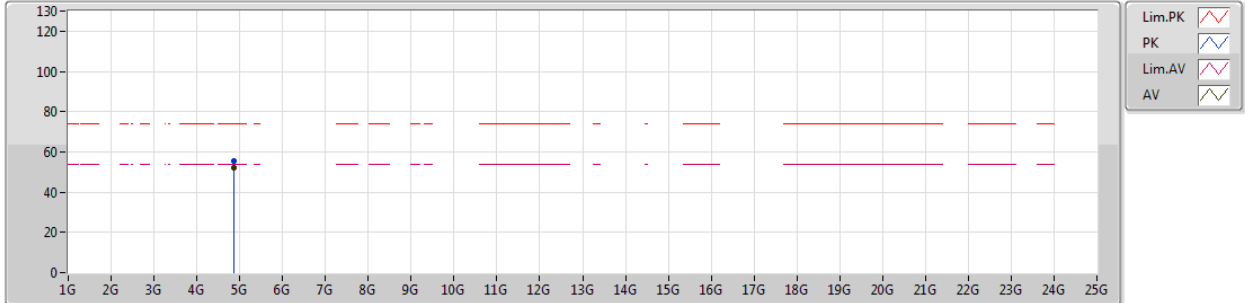




802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2437MHz\_TX



EUT\_Z\_2TX  
 Setting 24  
 03-L-2  
 FSP(100019)  
 #7

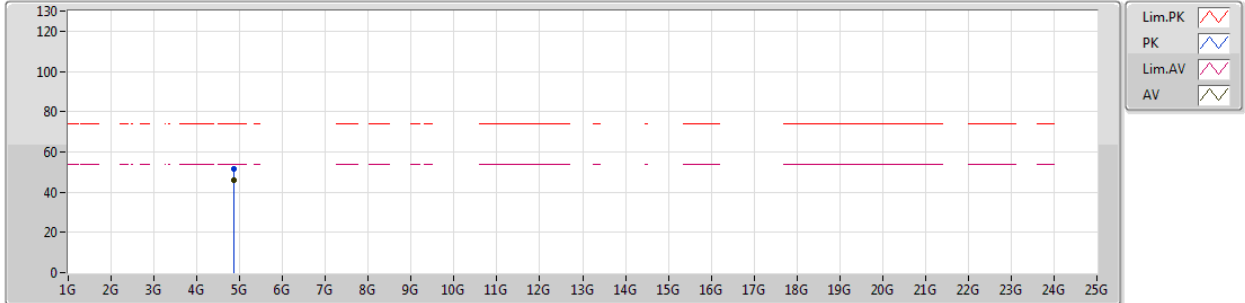
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.87392G	55.30	74.00	-18.70	5.09	3	Vertical	29	2.68	-
AV	4.87392G	51.87	54.00	-2.13	5.09	3	Vertical	29	2.68	-



802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2437MHz\_TX



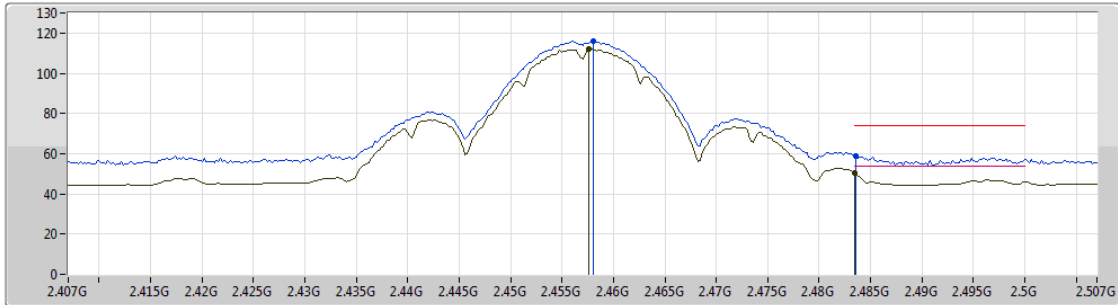
EUT\_Z\_2TX  
 Setting 24  
 03-L-2  
 FSP(100019)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.87404G	51.32	74.00	-22.68	5.09	3	Horizontal	13	1.03	-
AV	4.87394G	45.83	54.00	-8.17	5.09	3	Horizontal	13	1.03	-

802.11b\_Nss1,(1Mbps)\_2TX

29/01/2019

2457MHz\_TX



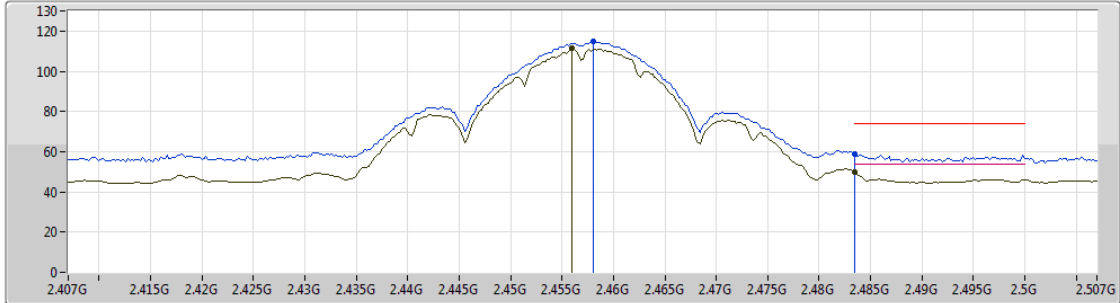
EUT\_Z\_2TX  
Setting 20  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.458G	116.02	Inf	-Inf	32.15	3	Vertical	248	2.82	-
AV	2.4576G	111.92	Inf	-Inf	32.15	3	Vertical	248	2.82	-
PK	2.4836G	58.97	74.00	-15.03	32.23	3	Vertical	248	2.82	-
AV	2.4835G	50.25	54.00	-3.75	32.23	3	Vertical	248	2.82	-

802.11b\_Nss1,(1Mbps)\_2TX

29/01/2019

2457MHz\_TX



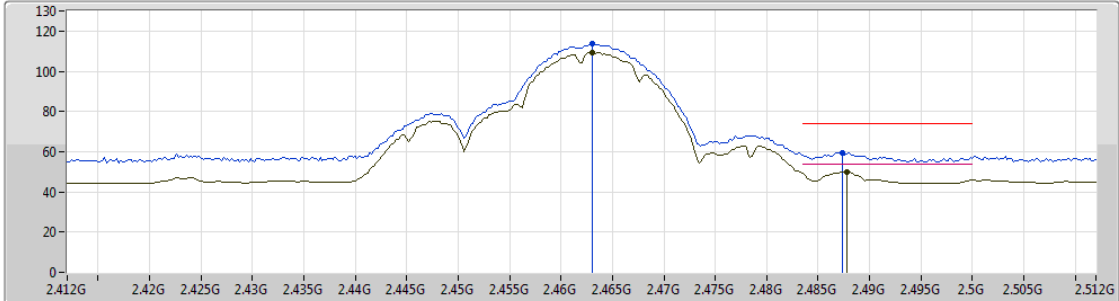
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Setting 20  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.458G	114.93	Inf	-Inf	32.15	3	Horizontal	291	1.03	-
AV	2.456G	111.67	Inf	-Inf	32.14	3	Horizontal	291	1.03	-
PK	2.4835G	58.79	74.00	-15.21	32.23	3	Horizontal	291	1.03	-
AV	2.4835G	49.74	54.00	-4.26	32.23	3	Horizontal	291	1.03	-

802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2462MHz\_TX



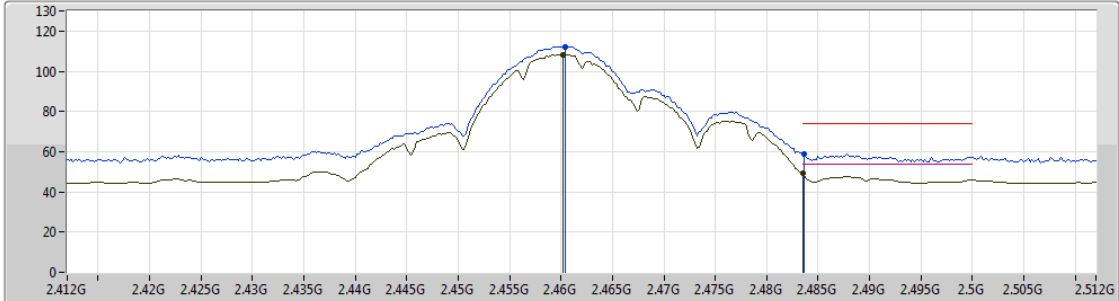
EUT\_Z\_2TX  
 Setting 19.5  
 03-L-2  
 FSP(100019)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.463G	113.68	Inf	-Inf	32.16	3	Vertical	222	2.82	-
AV	2.463G	109.45	Inf	-Inf	32.16	3	Vertical	222	2.82	-
PK	2.4874G	59.58	74.00	-14.42	32.23	3	Vertical	222	2.82	-
AV	2.4878G	49.96	54.00	-4.04	32.23	3	Vertical	222	2.82	-

802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2462MHz\_TX



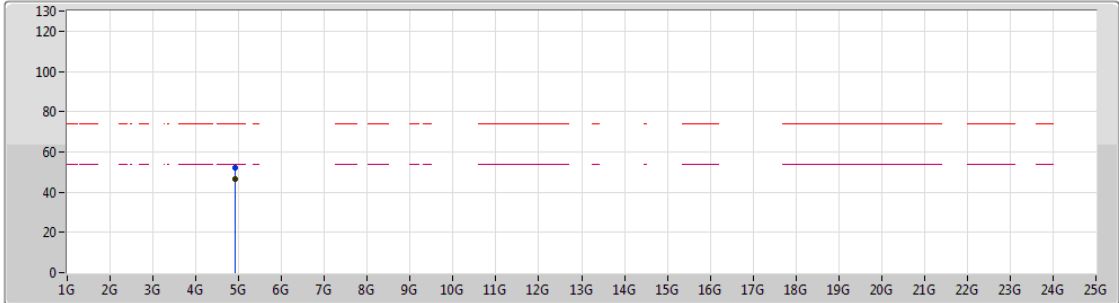
EUT\_Z\_2TX  
Setting 19.5  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4604G	112.27	Inf	-Inf	32.16	3	Horizontal	66	1.50	-
AV	2.4602G	108.40	Inf	-Inf	32.16	3	Horizontal	66	1.50	-
PK	2.4836G	59.10	74.00	-14.90	32.23	3	Horizontal	66	1.50	-
AV	2.4835G	49.14	54.00	-4.86	32.23	3	Horizontal	66	1.50	-

802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2462MHz\_TX



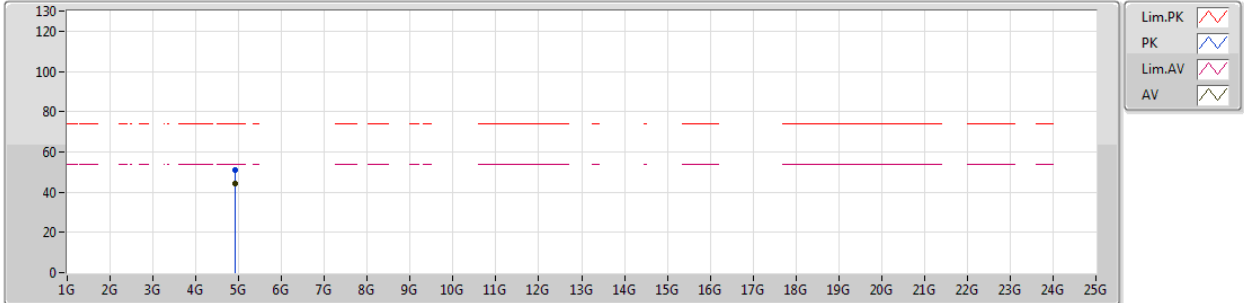
EUT\_Z\_2TX  
Setting 19.5  
03-L-2  
FSP(100019)  
#7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92394G	52.23	74.00	-21.77	5.22	3	Vertical	226	2.83	-
AV	4.92388G	46.58	54.00	-7.42	5.22	3	Vertical	226	2.83	-

802.11b\_Nss1,(1Mbps)\_2TX

28/01/2019

2462MHz\_TX



EUT\_Z\_2TX  
 Setting 19.5  
 03-L-2  
 FSP(100019)  
 #7

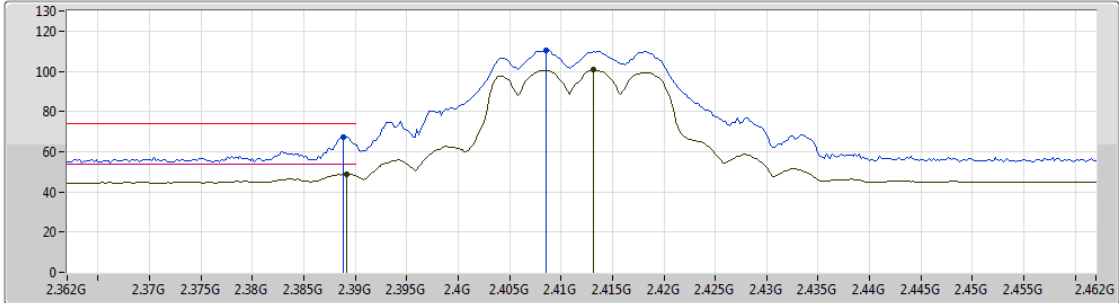
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.92394G	51.07	74.00	-22.93	5.22	3	Horizontal	8	1.09	-
AV	4.92394G	44.47	54.00	-9.53	5.22	3	Horizontal	8	1.09	-



802.11g\_Nss1,(6Mbps)\_2TX

25/02/2019

2412MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

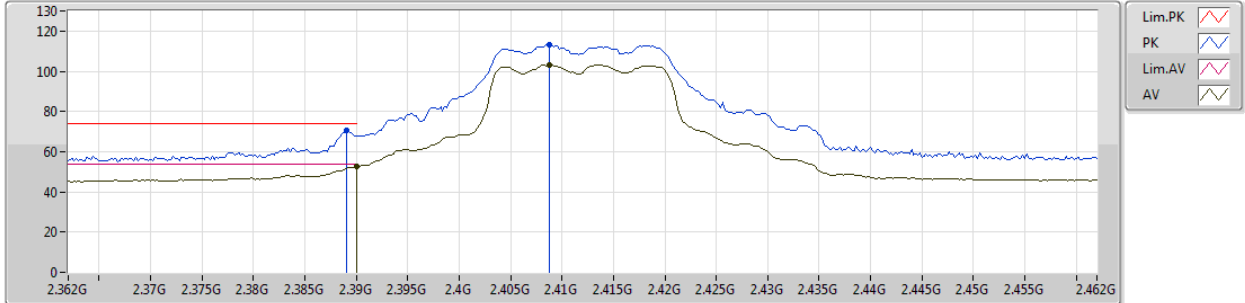
EUT\_Z\_2TX  
 Setting 16  
 06-K-3  
 FSP(100019)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3888G	67.46	74.00	-6.54	32.12	3	Vertical	213	2.46	-
AV	2.3892G	48.86	54.00	-5.14	32.13	3	Vertical	213	2.46	-
PK	2.4086G	110.48	Inf	-Inf	32.19	3	Vertical	213	2.46	-
AV	2.4132G	100.62	Inf	-Inf	32.20	3	Vertical	213	2.46	-

802.11g\_Nss1,(6Mbps)\_2TX

25/02/2019

2412MHz\_TX



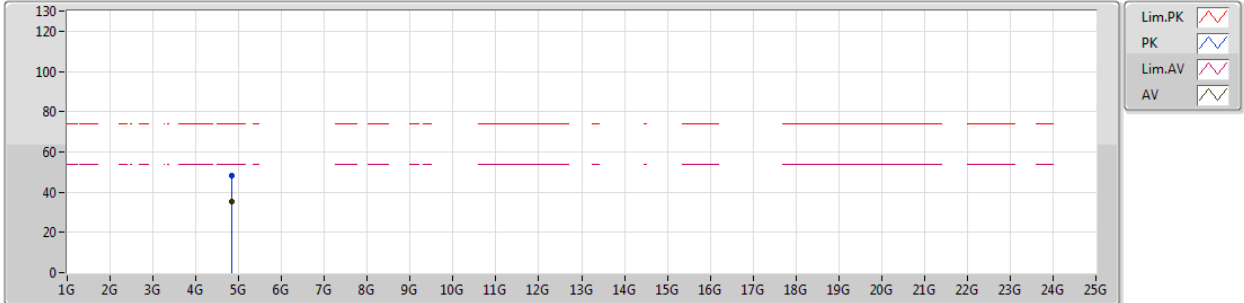
EUT\_Z\_2TX  
Setting 16  
06-K-3  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389G	70.39	74.00	-3.61	32.12	3	Horizontal	300	1.29	-
AV	2.39G	52.80	54.00	-1.20	32.13	3	Horizontal	300	1.29	-
PK	2.4088G	113.38	Inf	-Inf	32.19	3	Horizontal	300	1.29	-
AV	2.4088G	103.22	Inf	-Inf	32.19	3	Horizontal	300	1.29	-

802.11g\_Nss1,(6Mbps)\_2TX

25/02/2019

2412MHz\_TX



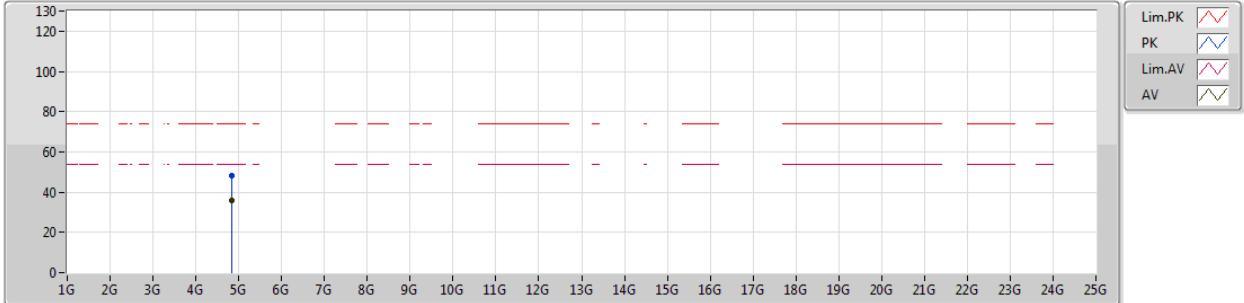
EUT\_Z\_2TX  
Setting 16  
06-K-3  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.82496G	48.31	74.00	-25.69	6.59	3	Vertical	204	1.53	-
AV	4.82952G	35.04	54.00	-18.96	6.59	3	Vertical	204	1.53	-

802.11g\_Nss1,(6Mbps)\_2TX

25/02/2019

2412MHz\_TX



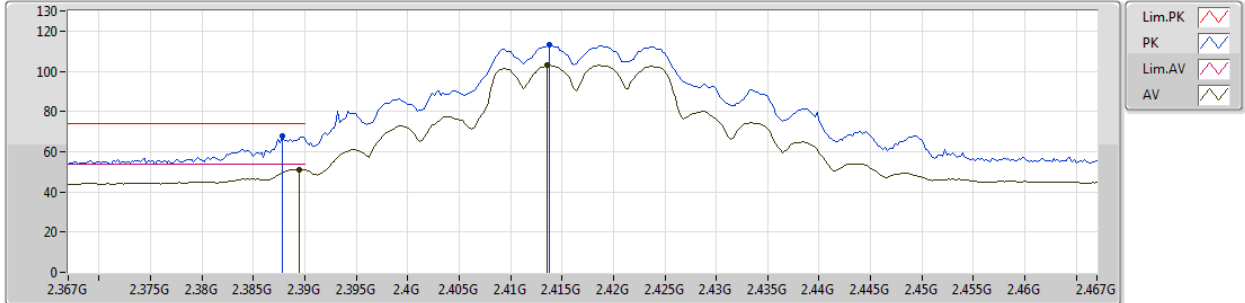
EUT\_Z\_2TX  
Setting 16  
06-K-3  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.83204G	48.45	74.00	-25.55	6.61	3	Horizontal	160	1.88	-
AV	4.83222G	35.96	54.00	-18.04	6.61	3	Horizontal	160	1.88	-

802.11g\_Nss1,(6Mbps)\_2TX

29/01/2019

2417MHz\_TX



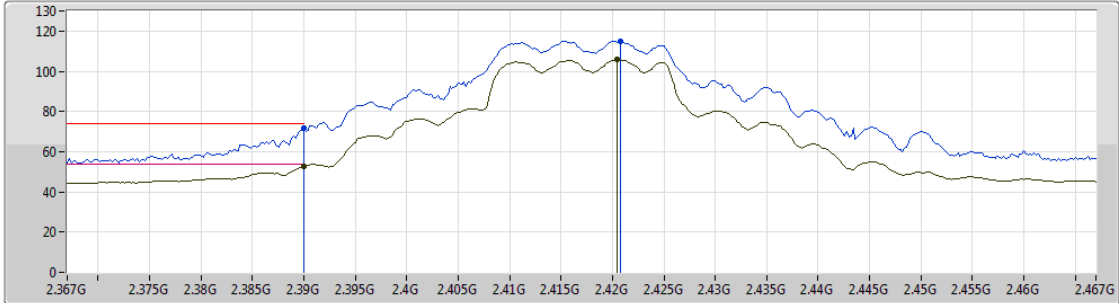
EUT\_Z\_2TX  
Setting 20  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3878G	67.79	74.00	-6.21	31.95	3	Vertical	199	2.59	-
AV	2.3894G	51.12	54.00	-2.88	31.95	3	Vertical	199	2.59	-
PK	2.4138G	113.02	Inf	-Inf	32.02	3	Vertical	199	2.59	-
AV	2.4136G	102.99	Inf	-Inf	32.02	3	Vertical	199	2.59	-

802.11g\_Nss1,(6Mbps)\_2TX

29/01/2019

2417MHz\_TX



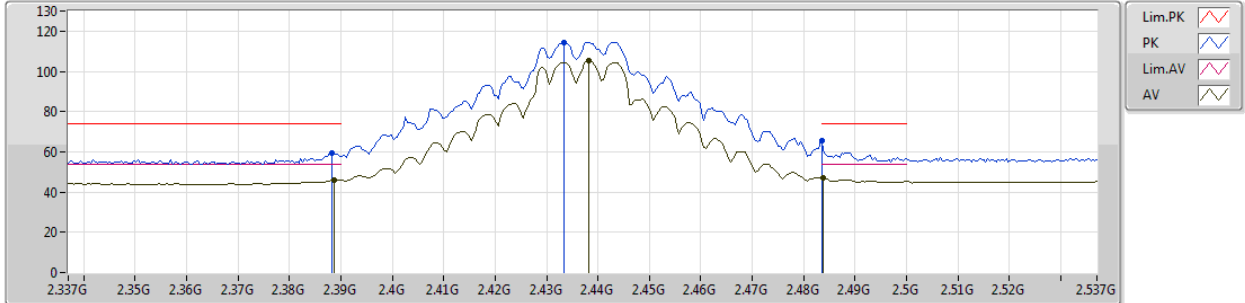
EUT\_Z\_2TX  
Setting 20  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	71.79	74.00	-2.21	31.95	3	Horizontal	58	1.34	-
AV	2.39G	52.75	54.00	-1.25	31.95	3	Horizontal	58	1.34	-
PK	2.4208G	115.02	Inf	-Inf	32.04	3	Horizontal	58	1.34	-
AV	2.4204G	105.63	Inf	-Inf	32.04	3	Horizontal	58	1.34	-

802.11g\_Nss1,(6Mbps)\_2TX

28/01/2019

2437MHz\_TX



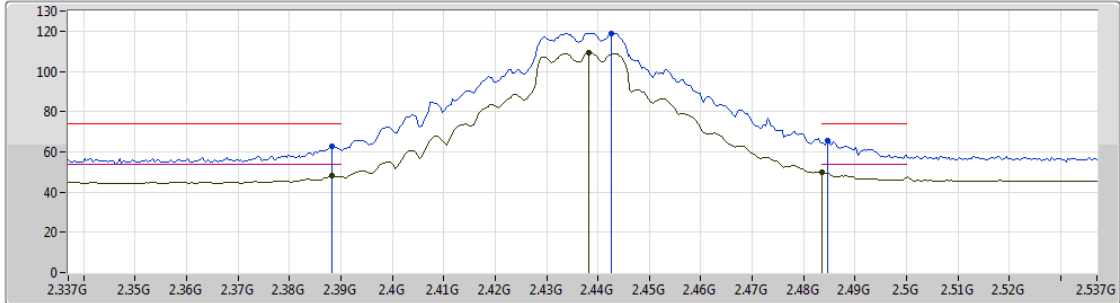
EUT\_Z\_2TX  
Setting 25  
03-L-2  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3882G	59.58	74.00	-14.42	31.95	3	Vertical	211	2.58	-
AV	2.3886G	46.22	54.00	-7.78	31.95	3	Vertical	211	2.58	-
PK	2.4334G	114.32	Inf	-Inf	32.08	3	Vertical	211	2.58	-
AV	2.4382G	105.16	Inf	-Inf	32.09	3	Vertical	211	2.58	-
PK	2.4835G	65.73	74.00	-8.27	32.23	3	Vertical	211	2.58	-
AV	2.4838G	46.92	54.00	-7.08	32.23	3	Vertical	211	2.58	-

802.11g\_Nss1,(6Mbps)\_2TX

28/01/2019

2437MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

EUT\_Z\_2TX  
 Setting 25  
 03-L-2  
 FSP(100019)  
 #7

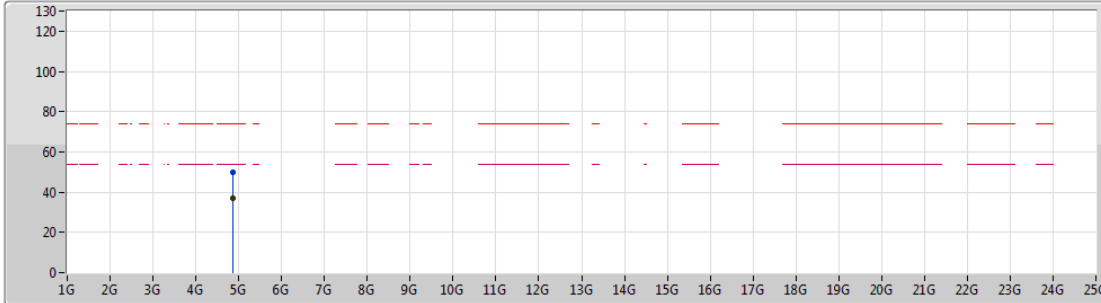
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3882G	62.89	74.00	-11.11	31.95	3	Horizontal	296	1.18	-
AV	2.3882G	47.93	54.00	-6.07	31.95	3	Horizontal	296	1.18	-
PK	2.4426G	119.01	Inf	-Inf	32.10	3	Horizontal	296	1.18	-
AV	2.4382G	109.39	Inf	-Inf	32.09	3	Horizontal	296	1.18	-
PK	2.4846G	65.60	74.00	-8.40	32.23	3	Horizontal	296	1.18	-
AV	2.4835G	49.91	54.00	-4.09	32.23	3	Horizontal	296	1.18	-







802.11g\_Nss1,(6Mbps)\_2TX

29/01/2019

2437MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV 

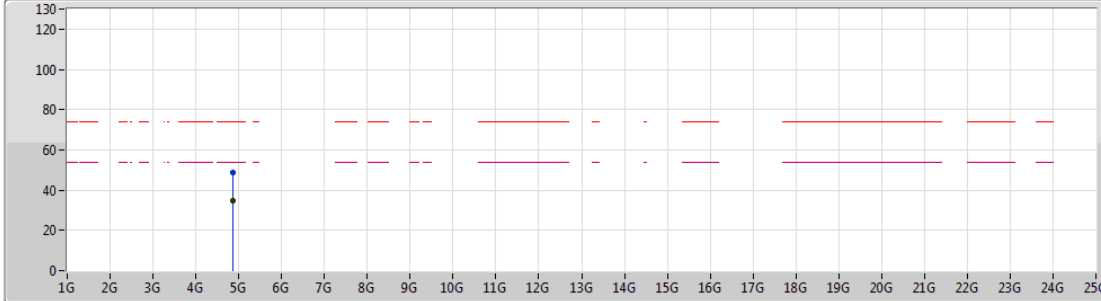
EUT\_Z\_2TX  
 Setting 25  
 03-L-2  
 FSP(100019)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.8766G	50.00	74.00	-24.00	5.09	3	Vertical	32	2.52	-
AV	4.87398G	36.88	54.00	-17.12	5.09	3	Vertical	32	2.52	-

802.11g\_Nss1,(6Mbps)\_2TX

29/01/2019

2437MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

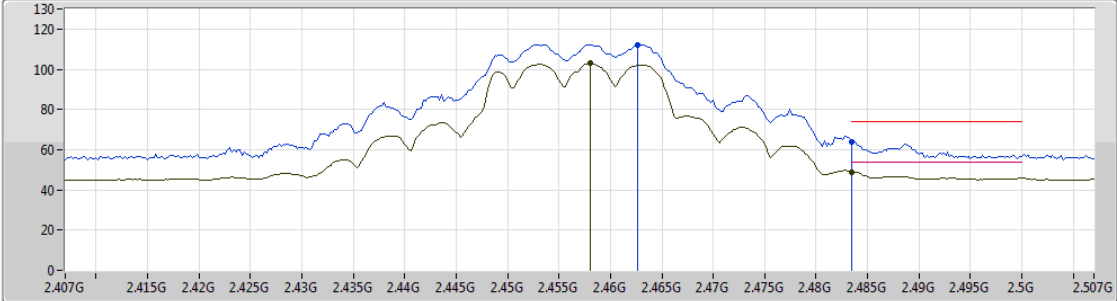
EUT\_Z\_2TX  
 Setting 25  
 03-L-2  
 FSP(100019)  
 #7





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87172G	34.65	54.00	-19.35	5.08	3	Horizontal	9	1.30	-
PK	4.87422G	48.49	74.00	-25.51	5.09	3	Horizontal	9	1.30	-

802.11g\_Nss1,(6Mbps)\_2TX

25/02/2019

2457MHz\_TX



Lim.PK    
 PK    
 Lim.AV    
 AV  

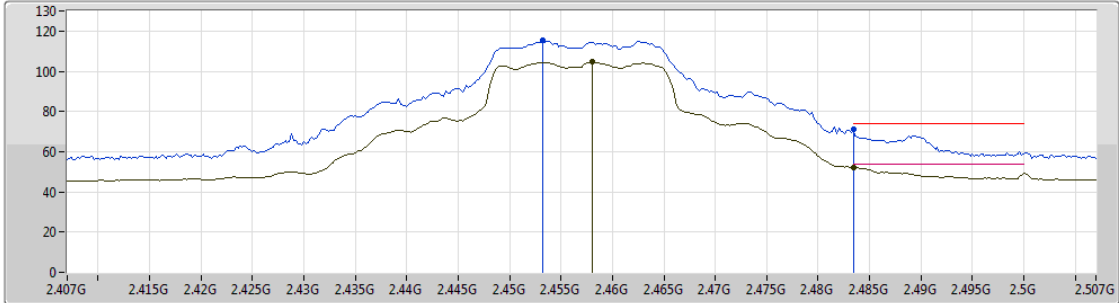
EUT\_Z\_2TX  
 Setting 17.5  
 06-K-3  
 FSP(100019)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4626G	112.33	Inf	-Inf	32.35	3	Vertical	211	2.67	-
AV	2.458G	102.87	Inf	-Inf	32.34	3	Vertical	211	2.67	-
PK	2.4835G	64.06	74.00	-9.94	32.41	3	Vertical	211	2.67	-
AV	2.4835G	48.96	54.00	-5.04	32.41	3	Vertical	211	2.67	-

802.11g\_Nss1,(6Mbps)\_2TX

25/02/2019

2457MHz\_TX



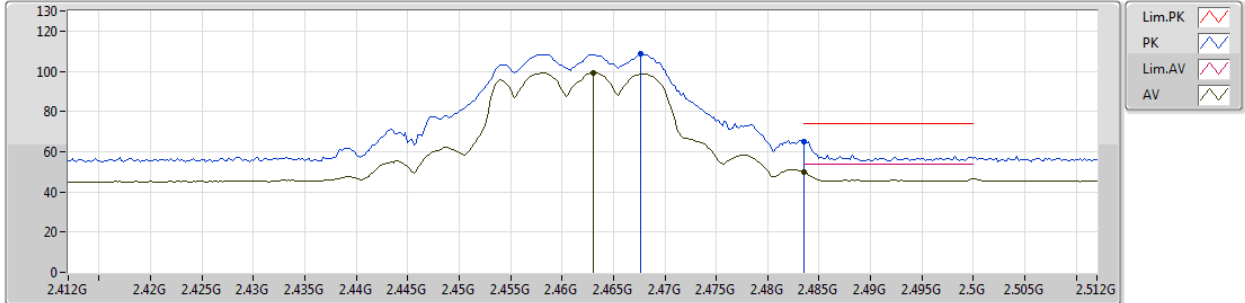
EUT\_Z\_2TX  
Setting 17.5  
06-K-3  
FSP(100019)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4532G	115.30	Inf	-Inf	32.32	3	Horizontal	298	1.01	-
AV	2.458G	104.67	Inf	-Inf	32.34	3	Horizontal	298	1.01	-
PK	2.4835G	71.03	74.00	-2.97	32.41	3	Horizontal	298	1.01	-
AV	2.4835G	52.21	54.00	-1.79	32.41	3	Horizontal	298	1.01	-

802.11g\_Nss1,(6Mbps)\_2TX

25/02/2019

2462MHz\_TX



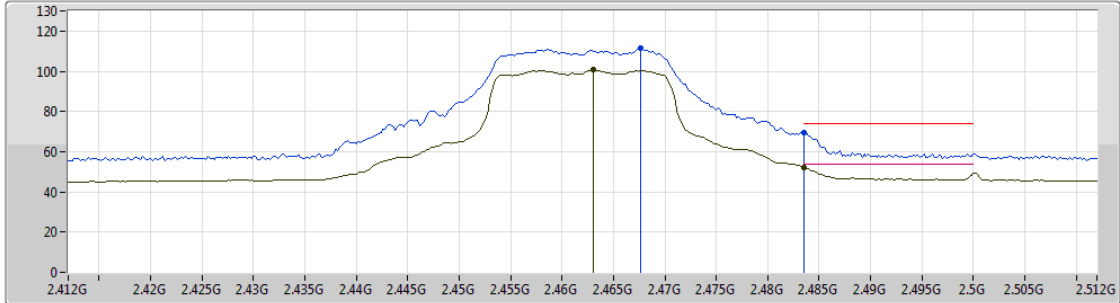
EUT\_Z\_2TX  
 Setting 13.5  
 06-K-3  
 FSP(100019)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4676G	108.49	Inf	-Inf	32.36	3	Vertical	211	2.67	-
AV	2.463G	99.41	Inf	-Inf	32.35	3	Vertical	211	2.67	-
PK	2.4835G	65.28	74.00	-8.72	32.41	3	Vertical	211	2.67	-
AV	2.4835G	49.68	54.00	-4.32	32.41	3	Vertical	211	2.67	-

802.11g\_Nss1,(6Mbps)\_2TX

25/02/2019

2462MHz\_TX



EUT\_Z\_2TX  
 Setting 13.5  
 06-K-3  
 FSP(100019)  
 #7

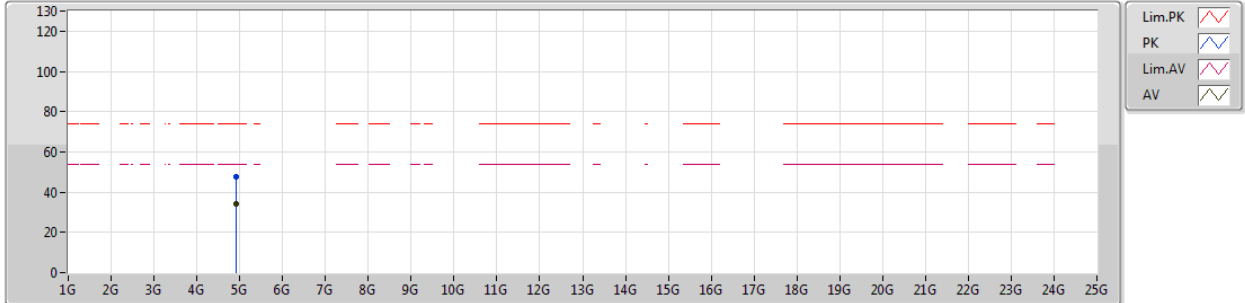
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4676G	111.24	Inf	-Inf	32.36	3	Horizontal	299	1.24	-
AV	2.463G	100.62	Inf	-Inf	32.35	3	Horizontal	299	1.24	-
PK	2.4835G	69.47	74.00	-4.53	32.41	3	Horizontal	299	1.24	-
AV	2.4835G	52.29	54.00	-1.71	32.41	3	Horizontal	299	1.24	-



802.11g\_Nss1,(6Mbps)\_2TX

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2462MHz\_TX



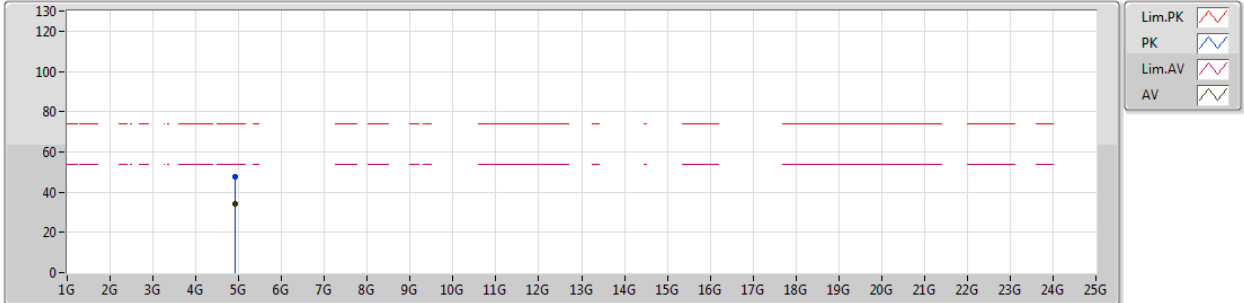
EUT\_Z\_2TX  
Setting 15  
03-L-2  
FSP(100019)  
#7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92576G	47.69	74.00	-26.31	5.22	3	Vertical	149	1.03	-
AV	4.92726G	34.17	54.00	-19.83	5.23	3	Vertical	149	1.03	-

802.11g\_Nss1,(6Mbps)\_2TX

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2462MHz\_TX



EUT\_Z\_2TX  
Setting 15  
03-L-2  
FSP(100019)  
#7

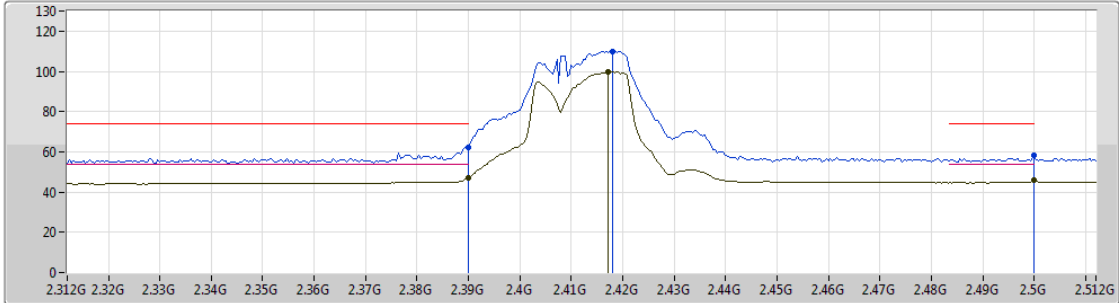
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.92662G	47.85	74.00	-26.15	5.23	3	Horizontal	76	2.06	-
AV	4.92378G	34.11	54.00	-19.89	5.22	3	Horizontal	76	2.06	-



VHT20\_Nss1,(MCS0)\_2TX

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2412MHz\_TX



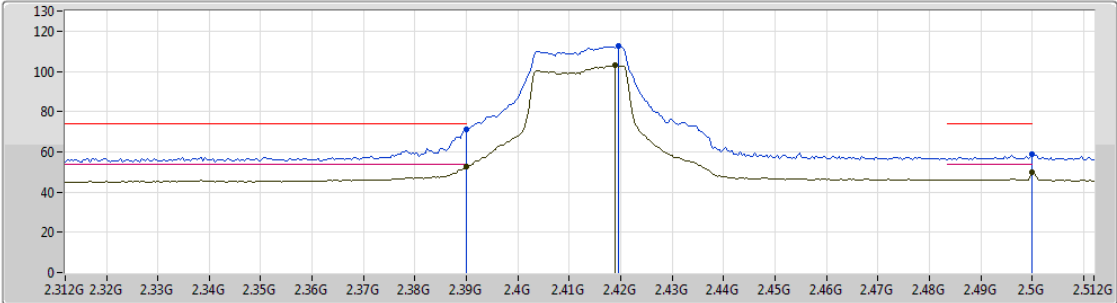
EUT\_Z\_2TX  
 Setting 15.5  
 06-K-3  
 FSP(100304)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	62.42	74.00	-11.58	32.13	3	Vertical	211	2.70	-
AV	2.39G	46.93	54.00	-7.07	32.13	3	Vertical	211	2.70	-
PK	2.418G	109.81	Inf	-Inf	32.21	3	Vertical	211	2.70	-
AV	2.4172G	99.64	Inf	-Inf	32.21	3	Vertical	211	2.70	-
PK	2.5G	58.06	74.00	-15.94	32.46	3	Vertical	211	2.70	-
AV	2.5G	45.84	54.00	-8.16	32.46	3	Vertical	211	2.70	-

VHT20\_Nss1,(MCS0)\_2TX

25/02/2019

2412MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

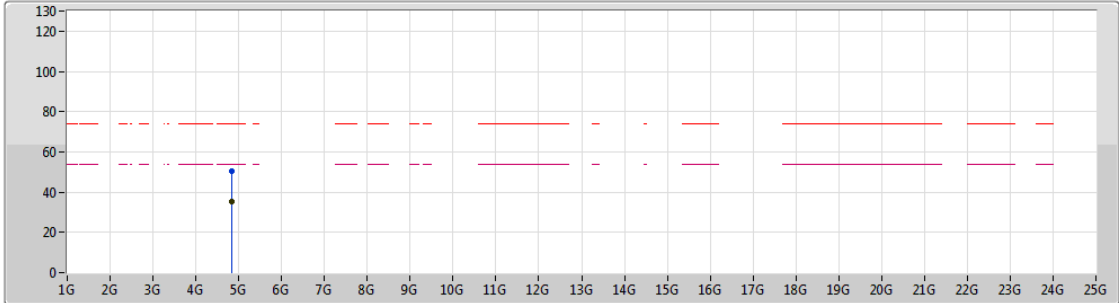
EUT\_Z\_2TX  
 Setting 15.5  
 06-K-3  
 FSP(100304)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	71.09	74.00	-2.91	32.13	3	Horizontal	299	1.26	-
AV	2.39G	52.45	54.00	-1.55	32.13	3	Horizontal	299	1.26	-
PK	2.4196G	112.35	Inf	-Inf	32.22	3	Horizontal	299	1.26	-
AV	2.4188G	102.85	Inf	-Inf	32.22	3	Horizontal	299	1.26	-
PK	2.5G	58.57	74.00	-15.43	32.46	3	Horizontal	299	1.26	-
AV	2.5G	49.69	54.00	-4.31	32.46	3	Horizontal	299	1.26	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2412MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

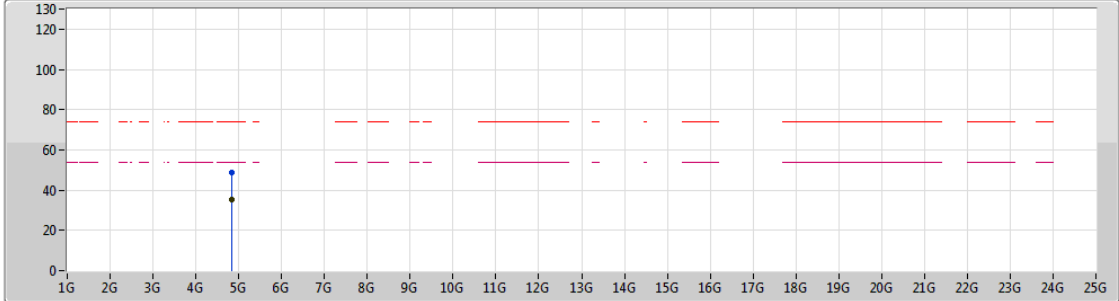
EUT\_Z\_2TX  
 Setting 16.5  
 04-P-2  
 FSP(100304)  
 #7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.827G	50.63	74.00	-23.37	7.17	3	Vertical	28	2.88	-
AV	4.82504G	35.53	54.00	-18.47	7.17	3	Vertical	28	2.88	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2412MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

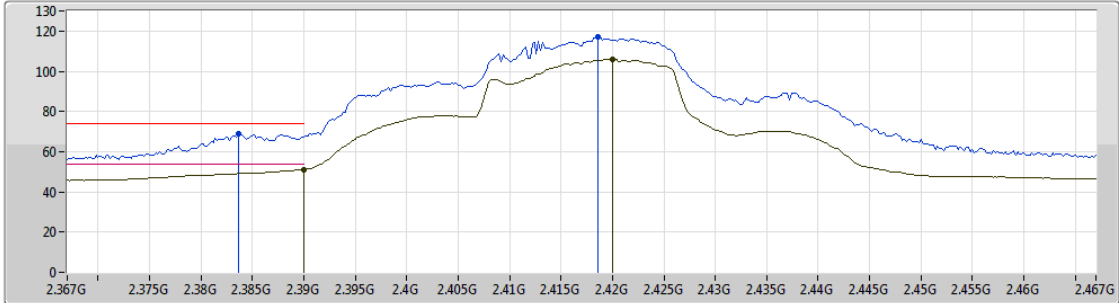
EUT\_Z\_2TX  
 Setting 16.5  
 04-P-2  
 FSP(100304)  
 #7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.82656G	48.92	74.00	-25.08	7.17	3	Horizontal	111	1.99	-
AV	4.82528G	35.09	54.00	-18.91	7.17	3	Horizontal	111	1.99	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2417MHz\_TX



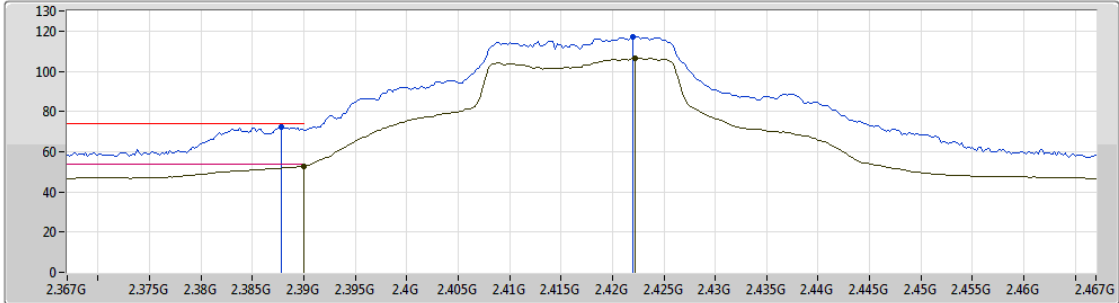
EUT\_Z\_2TX  
Setting 19.5  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3836G	68.67	74.00	-5.33	33.08	3	Vertical	239	2.99	-
AV	2.39G	51.05	54.00	-2.95	33.08	3	Vertical	239	2.99	-
PK	2.4186G	116.91	Inf	-Inf	33.15	3	Vertical	239	2.99	-
AV	2.42G	105.93	Inf	-Inf	33.15	3	Vertical	239	2.99	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2417MHz\_TX



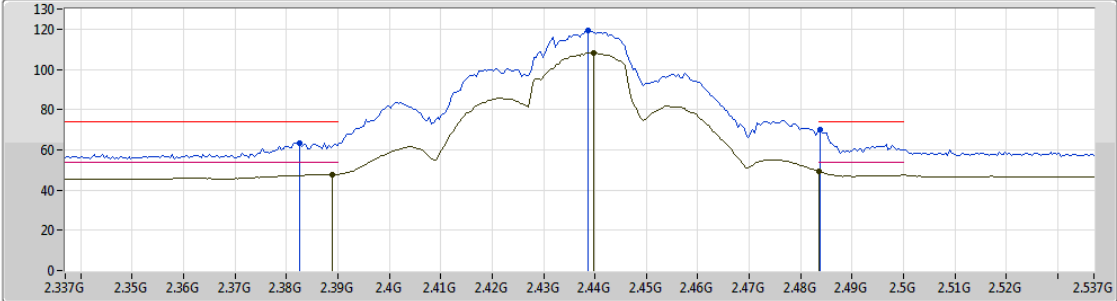
EUT\_Z\_2TX  
Setting 19.5  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3878G	72.51	74.00	-1.49	33.08	3	Horizontal	302	1.08	-
AV	2.39G	52.74	54.00	-1.26	33.08	3	Horizontal	302	1.08	-
PK	2.422G	116.89	Inf	-Inf	33.16	3	Horizontal	302	1.08	-
AV	2.4222G	106.41	Inf	-Inf	33.16	3	Horizontal	302	1.08	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2437MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

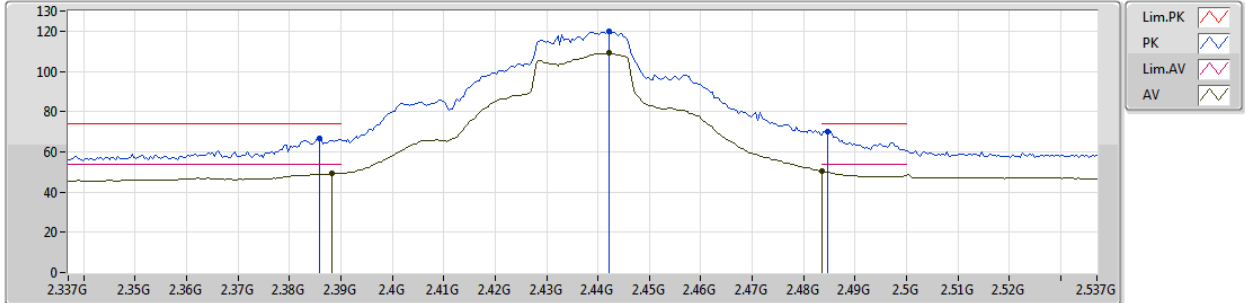
EUT\_Z\_2TX  
 Setting 25  
 04-P-2  
 FSP(100304)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3826G	63.51	74.00	-10.49	33.08	3	Vertical	236	2.97	-
AV	2.389G	47.68	54.00	-6.32	33.08	3	Vertical	236	2.97	-
PK	2.4386G	119.56	Inf	-Inf	33.22	3	Vertical	236	2.97	-
AV	2.4398G	108.34	Inf	-Inf	33.22	3	Vertical	236	2.97	-
PK	2.4838G	69.82	74.00	-4.18	33.36	3	Vertical	236	2.97	-
AV	2.4835G	49.06	54.00	-4.94	33.36	3	Vertical	236	2.97	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2437MHz\_TX



EUT\_Z\_2TX  
Setting 25  
04-P-2  
FSP(100304)  
#7

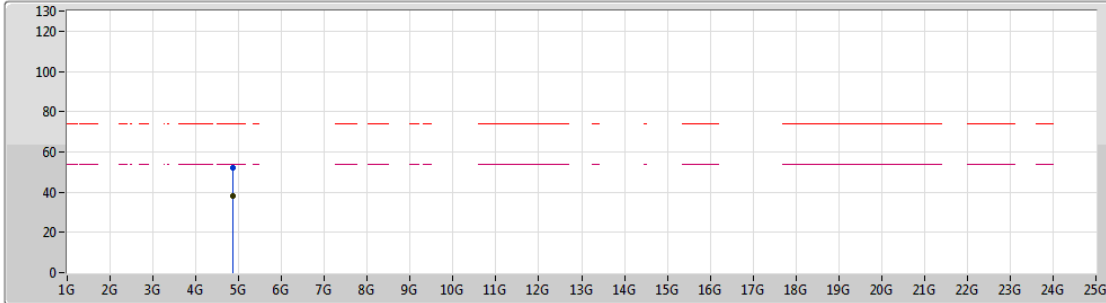
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3858G	66.80	74.00	-7.20	33.07	3	Horizontal	301	1.02	-
AV	2.3882G	49.12	54.00	-4.88	33.08	3	Horizontal	301	1.02	-
PK	2.4422G	119.66	Inf	-Inf	33.22	3	Horizontal	301	1.02	-
AV	2.4422G	109.04	Inf	-Inf	33.22	3	Horizontal	301	1.02	-
PK	2.4846G	70.23	74.00	-3.77	33.36	3	Horizontal	301	1.02	-
AV	2.4835G	50.46	54.00	-3.54	33.36	3	Horizontal	301	1.02	-



VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2437MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

EUT\_Z\_2TX  
 Setting 25  
 04-P-2  
 FSP(100304)  
 #7

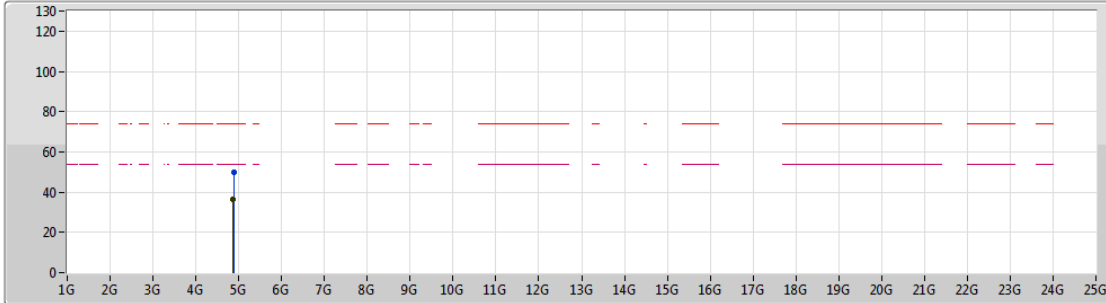
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8738G	52.03	74.00	-21.97	7.37	3	Vertical	30	2.63	-
AV	4.8738G	38.31	54.00	-15.69	7.37	3	Vertical	30	2.63	-



VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2437MHz\_TX



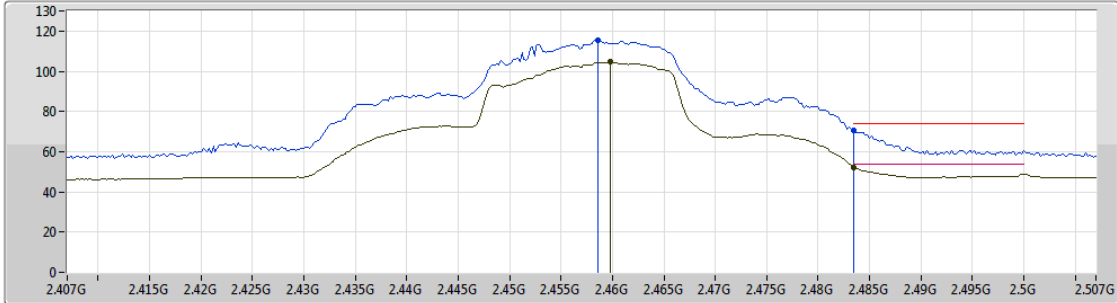
EUT\_Z\_2TX  
 Setting 25  
 04-P-2  
 FSP(100304)  
 #7





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.8803G	49.89	74.00	-24.11	7.40	3	Horizontal	10	1.02	-
AV	4.874G	36.31	54.00	-17.69	7.37	3	Horizontal	10	1.02	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2457MHz\_TX



Lim.PK    
 PK    
 Lim.AV    
 AV  

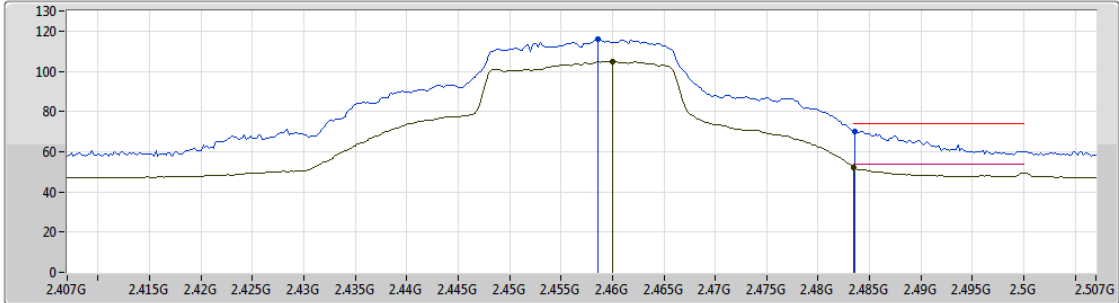
EUT\_Z\_2TX  
 Setting 17.5  
 04-E-2  
 FSP(100304)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4586G	115.49	Inf	-Inf	33.28	3	Vertical	234	2.87	-
AV	2.4598G	104.52	Inf	-Inf	33.28	3	Vertical	234	2.87	-
PK	2.4835G	70.73	74.00	-3.27	33.36	3	Vertical	234	2.87	-
AV	2.4835G	52.22	54.00	-1.78	33.36	3	Vertical	234	2.87	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2457MHz\_TX



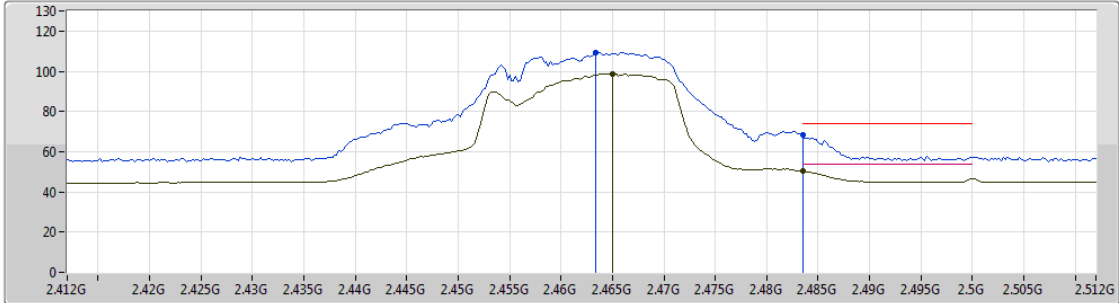
EUT\_Z\_2TX  
Setting 17.5  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4586G	116.12	Inf	-Inf	33.28	3	Horizontal	300	1.01	-
AV	2.46G	104.98	Inf	-Inf	33.28	3	Horizontal	300	1.01	-
PK	2.4836G	69.97	74.00	-4.03	33.36	3	Horizontal	300	1.01	-
AV	2.4835G	52.35	54.00	-1.65	33.36	3	Horizontal	300	1.01	-

VHT20\_Nss1,(MCS0)\_2TX

25/02/2019

2462MHz\_TX



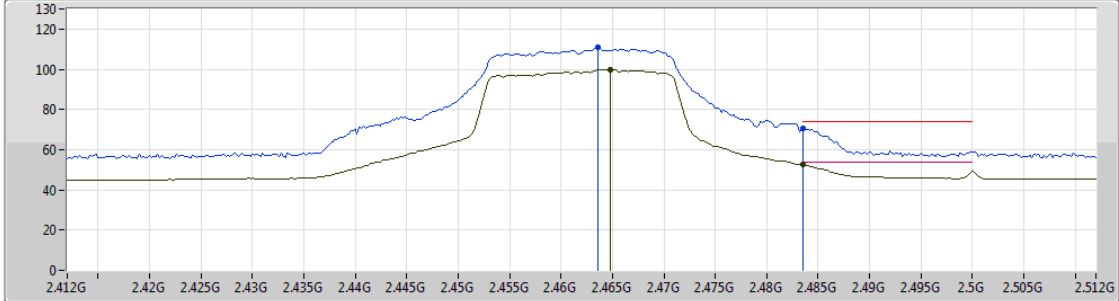
EUT\_Z\_2TX  
 Setting 13  
 06-K-3  
 FSP(100304)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4634G	109.23	Inf	-Inf	32.35	3	Vertical	217	2.94	-
AV	2.465G	98.76	Inf	-Inf	32.35	3	Vertical	217	2.94	-
PK	2.4835G	68.23	74.00	-5.77	32.41	3	Vertical	217	2.94	-
AV	2.4835G	50.28	54.00	-3.72	32.41	3	Vertical	217	2.94	-

VHT20\_Nss1,(MCS0)\_2TX

25/02/2019

2462MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

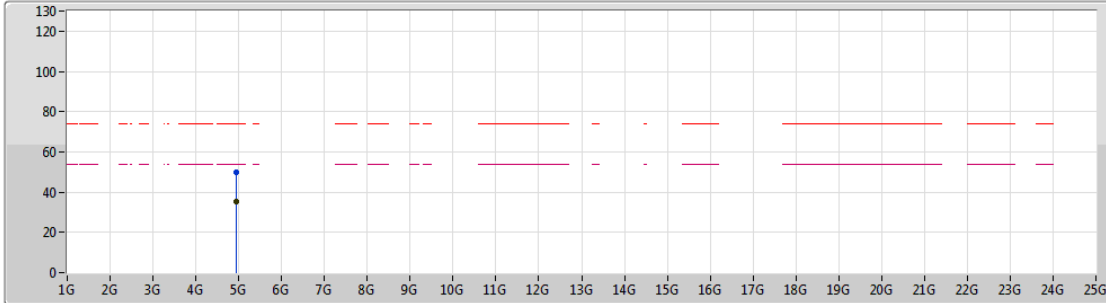
EUT\_Z\_2TX  
 Setting 13  
 06-K-3  
 FSP(100304)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4636G	110.67	Inf	-Inf	32.35	3	Horizontal	301	1.00	-
AV	2.4648G	99.65	Inf	-Inf	32.35	3	Horizontal	301	1.00	-
PK	2.4835G	70.67	74.00	-3.33	32.41	3	Horizontal	301	1.00	-
AV	2.4835G	52.45	54.00	-1.55	32.41	3	Horizontal	301	1.00	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2462MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

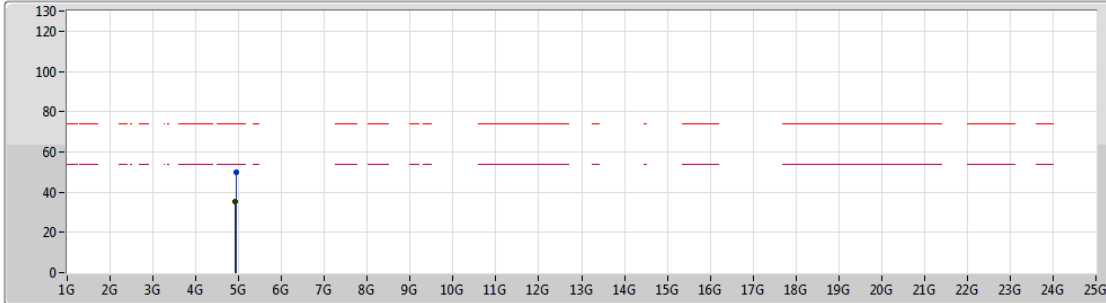
EUT\_Z\_2TX  
 Setting 14  
 04-E-2  
 FSP(100304)  
 #7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.93144G	49.78	74.00	-24.22	7.59	3	Vertical	35	2.54	-
AV	4.93558G	35.58	54.00	-18.42	7.61	3	Vertical	35	2.54	-

VHT20\_Nss1,(MCS0)\_2TX

21/02/2019

2462MHz\_TX



EUT\_Z\_2TX  
Setting 14  
04-E-2  
FSP(100304)  
#7

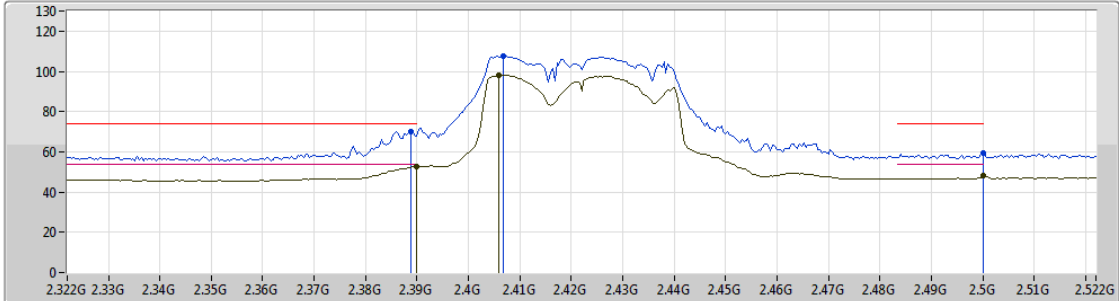
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.93018G	49.72	74.00	-24.28	7.59	3	Horizontal	356	2.47	-
AV	4.92472G	35.52	54.00	-18.48	7.58	3	Horizontal	356	2.47	-



VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2422MHz\_TX



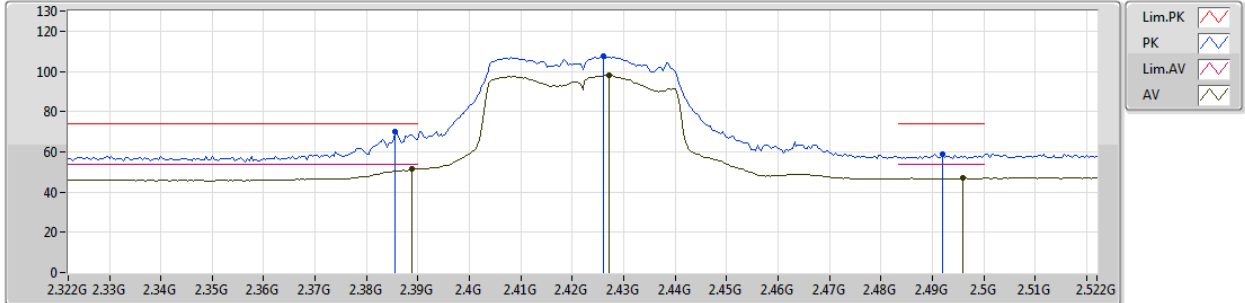
EUT\_Z\_2TX  
Setting 14  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3888G	70.04	74.00	-3.96	33.08	3	Vertical	225	2.99	-
AV	2.39G	52.80	54.00	-1.20	33.08	3	Vertical	225	2.99	-
PK	2.4068G	107.52	Inf	-Inf	33.11	3	Vertical	225	2.99	-
AV	2.406G	98.16	Inf	-Inf	33.11	3	Vertical	225	2.99	-
PK	2.5G	59.15	74.00	-14.85	33.41	3	Vertical	225	2.99	-
AV	2.5G	48.42	54.00	-5.58	33.41	3	Vertical	225	2.99	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2422MHz\_TX



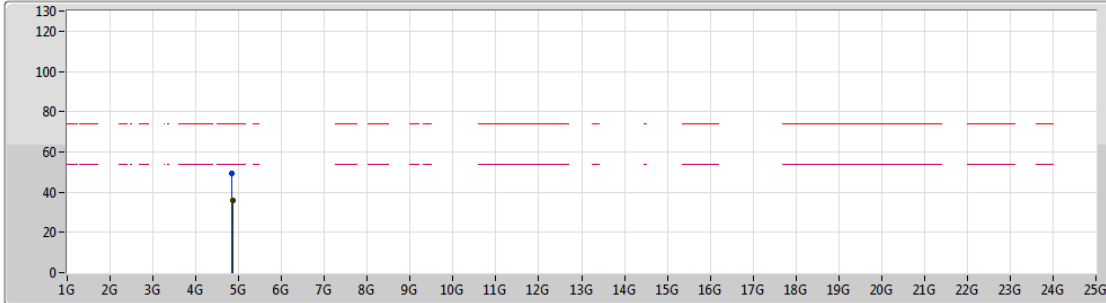
EUT\_Z\_2TX  
Setting 14  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3856G	69.77	74.00	-4.23	33.07	3	Horizontal	162	1.50	-
AV	2.3888G	51.47	54.00	-2.53	33.08	3	Horizontal	162	1.50	-
PK	2.426G	107.46	Inf	-Inf	33.17	3	Horizontal	162	1.50	-
AV	2.4272G	97.91	Inf	-Inf	33.17	3	Horizontal	162	1.50	-
PK	2.492G	59.07	74.00	-14.93	33.38	3	Horizontal	162	1.50	-
AV	2.496G	47.08	54.00	-6.92	33.40	3	Horizontal	162	1.50	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2422MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

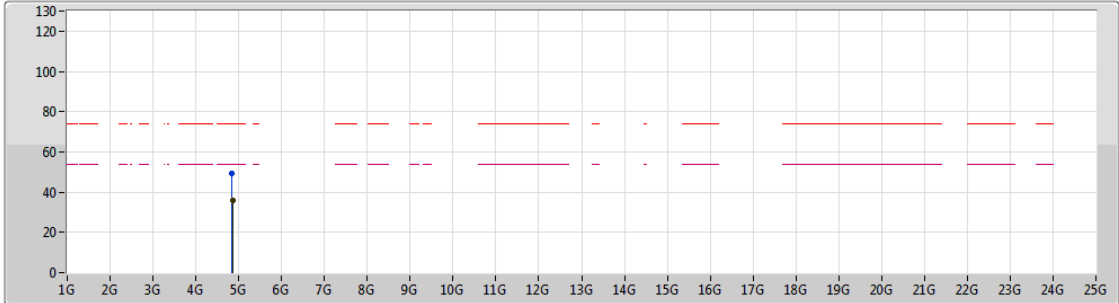
EUT\_Z\_2TX  
 Setting 14  
 04-E-2  
 FSP(100304)  
 #7


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.84664G	49.53	74.00	-24.47	7.25	3	Vertical	360	1.89	-
AV	4.85366G	35.86	54.00	-18.14	7.29	3	Vertical	360	1.89	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2422MHz\_TX



Lim.PK    
 PK    
 Lim.AV    
 AV  

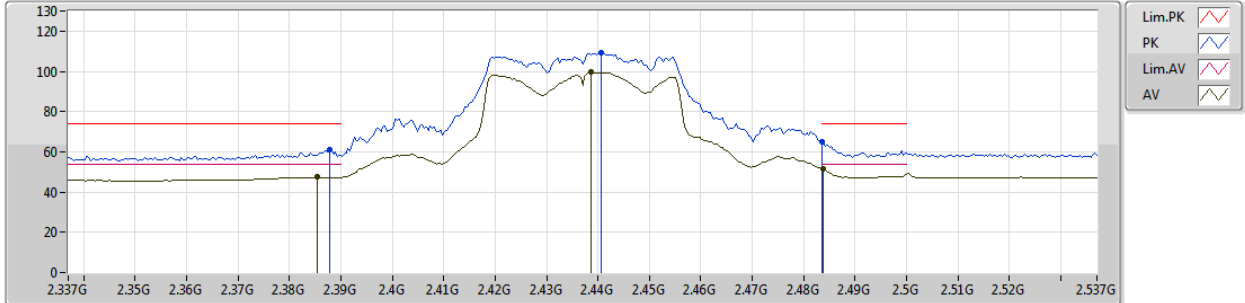
EUT\_Z\_2TX  
 Setting 14  
 04-E-2  
 FSP(100304)  
 #7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8446G	49.49	74.00	-24.51	7.24	3	Horizontal	103	2.23	-
AV	4.85282G	35.89	54.00	-18.11	7.29	3	Horizontal	103	2.23	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2437MHz\_TX



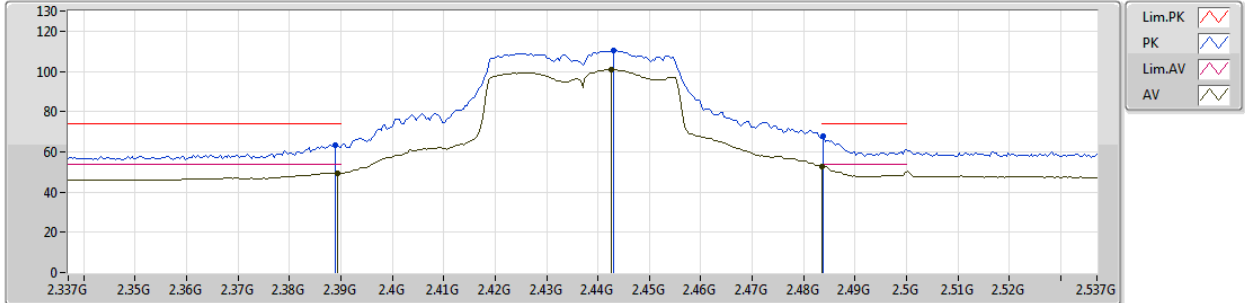
EUT\_Z\_2TX  
Setting 15  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3878G	60.92	74.00	-13.08	33.08	3	Vertical	237	2.94	-
AV	2.3854G	47.36	54.00	-6.64	33.07	3	Vertical	237	2.94	-
PK	2.4406G	109.17	Inf	-Inf	33.22	3	Vertical	237	2.94	-
AV	2.4386G	99.49	Inf	-Inf	33.22	3	Vertical	237	2.94	-
PK	2.4835G	64.76	74.00	-9.24	33.36	3	Vertical	237	2.94	-
AV	2.4838G	51.39	54.00	-2.61	33.36	3	Vertical	237	2.94	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2437MHz\_TX



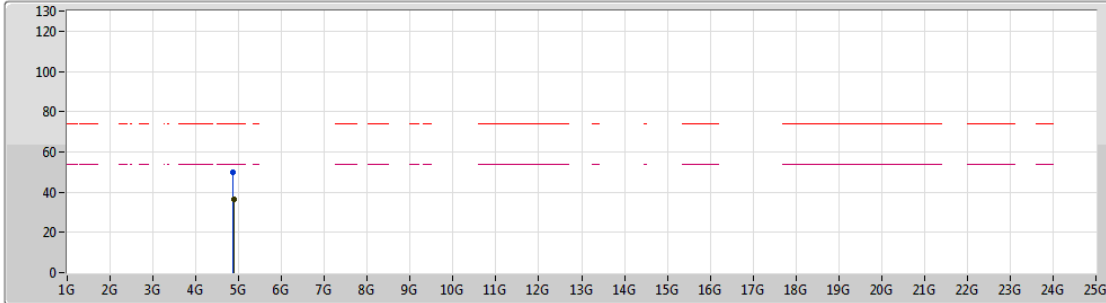
EUT\_Z\_2TX  
Setting 15  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389G	63.48	74.00	-10.52	33.08	3	Horizontal	299	1.01	-
AV	2.3894G	49.55	54.00	-4.45	33.08	3	Horizontal	299	1.01	-
PK	2.443G	110.49	Inf	-Inf	33.23	3	Horizontal	299	1.01	-
AV	2.4426G	101.02	Inf	-Inf	33.23	3	Horizontal	299	1.01	-
PK	2.4838G	67.67	74.00	-6.33	33.36	3	Horizontal	299	1.01	-
AV	2.4835G	52.77	54.00	-1.23	33.36	3	Horizontal	299	1.01	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2437MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

EUT\_Z\_2TX  
 Setting 15  
 04-E-2  
 FSP(100304)  
 #7

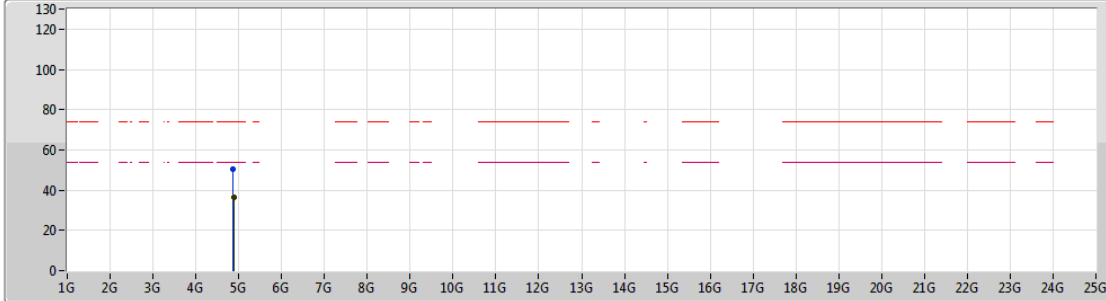
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.85972G	49.71	74.00	-24.29	7.32	3	Vertical	224	2.48	-
AV	4.88138G	36.26	54.00	-17.74	7.40	3	Vertical	224	2.48	-



VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2437MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

EUT\_Z\_2TX  
 Setting 15  
 04-E-2  
 FSP(100304)  
 #7

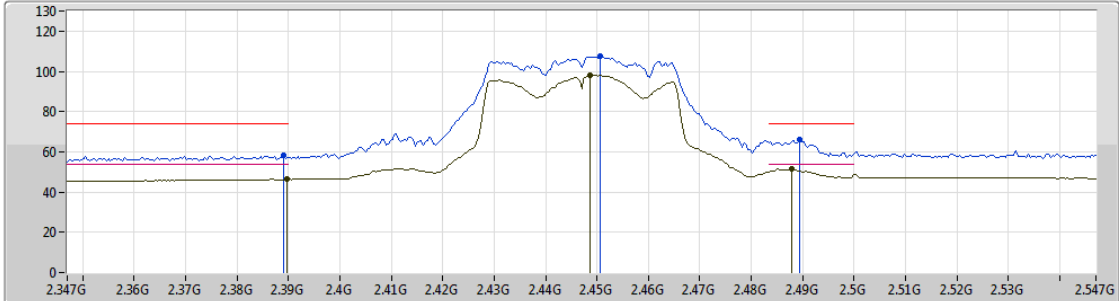
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.86308G	50.27	74.00	-23.73	7.33	3	Horizontal	301	2.98	-
AV	4.88384G	36.22	54.00	-17.78	7.42	3	Horizontal	301	2.98	-



VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2447MHz\_TX



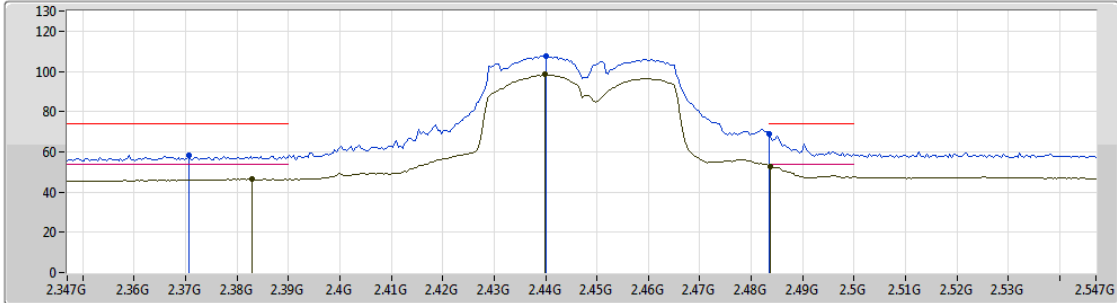
EUT\_Z\_2TX  
Setting 13  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389G	58.29	74.00	-15.71	33.08	3	Vertical	238	2.94	-
AV	2.3898G	46.51	54.00	-7.49	33.08	3	Vertical	238	2.94	-
PK	2.4506G	107.51	Inf	-Inf	33.25	3	Vertical	238	2.94	-
AV	2.4486G	98.18	Inf	-Inf	33.25	3	Vertical	238	2.94	-
PK	2.4894G	66.29	74.00	-7.71	33.38	3	Vertical	238	2.94	-
AV	2.4878G	51.49	54.00	-2.51	33.38	3	Vertical	238	2.94	-





VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2447MHz\_TX



Legend for the spectrum plot:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

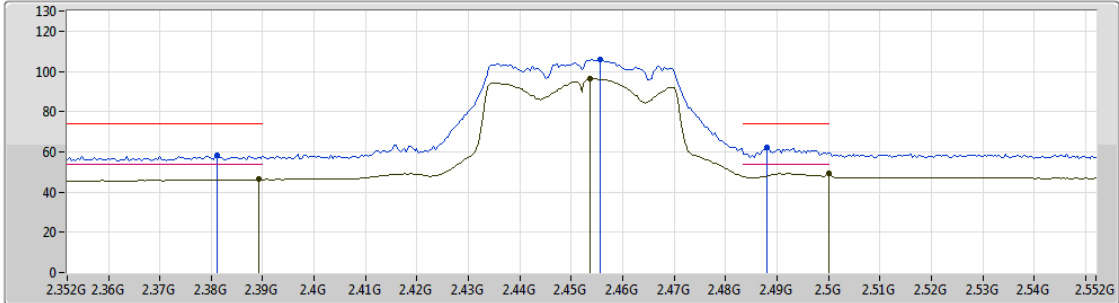
EUT\_Z\_2TX  
Setting 13  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3706G	58.13	74.00	-15.87	33.06	3	Horizontal	56	1.34	-
AV	2.383G	46.36	54.00	-7.64	33.08	3	Horizontal	56	1.34	-
PK	2.4402G	107.43	Inf	-Inf	33.22	3	Horizontal	56	1.34	-
AV	2.4398G	98.43	Inf	-Inf	33.22	3	Horizontal	56	1.34	-
PK	2.4835G	68.73	74.00	-5.27	33.36	3	Horizontal	56	1.34	-
AV	2.4838G	52.59	54.00	-1.41	33.36	3	Horizontal	56	1.34	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2452MHz\_TX



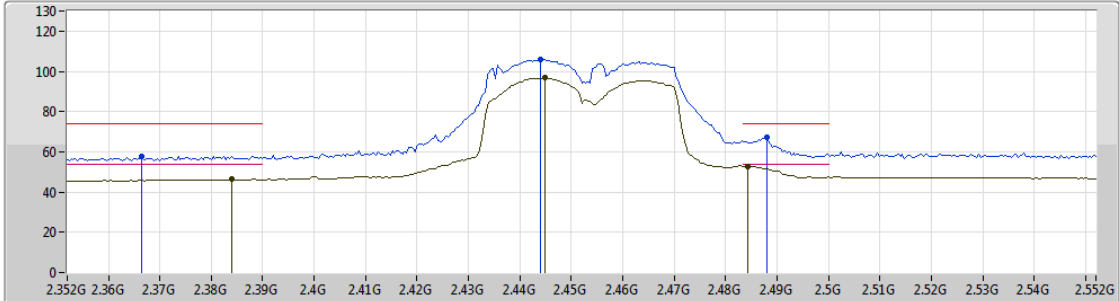
EUT\_Z\_2TX  
Setting 11.5  
04-E-2  
FSP(100304)  
#7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3812G	58.30	74.00	-15.70	33.07	3	Vertical	235	2.94	-
AV	2.3892G	46.23	54.00	-7.77	33.08	3	Vertical	235	2.94	-
PK	2.4556G	105.75	Inf	-Inf	33.27	3	Vertical	235	2.94	-
AV	2.4536G	96.61	Inf	-Inf	33.26	3	Vertical	235	2.94	-
PK	2.488G	62.21	74.00	-11.79	33.38	3	Vertical	235	2.94	-
AV	2.5G	49.36	54.00	-4.64	33.41	3	Vertical	235	2.94	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2452MHz\_TX



- Lim.PK
- PK
- Lim.AV
- AV

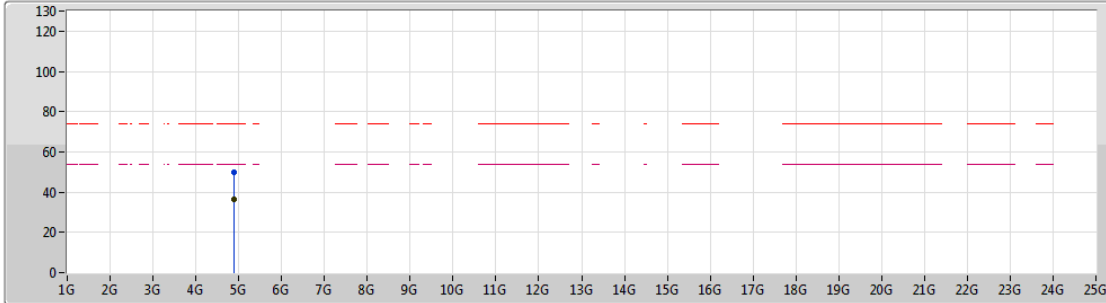
EUT\_Z\_2TX  
 Setting 11.5  
 04-E-2  
 FSP(100304)  
 #7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3664G	57.89	74.00	-16.11	33.05	3	Horizontal	55	1.32	-
AV	2.384G	46.31	54.00	-7.69	33.08	3	Horizontal	55	1.32	-
PK	2.444G	106.07	Inf	-Inf	33.23	3	Horizontal	55	1.32	-
AV	2.4448G	96.66	Inf	-Inf	33.23	3	Horizontal	55	1.32	-
PK	2.488G	67.32	74.00	-6.68	33.38	3	Horizontal	55	1.32	-
AV	2.4844G	52.95	54.00	-1.05	33.36	3	Horizontal	55	1.32	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2452MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

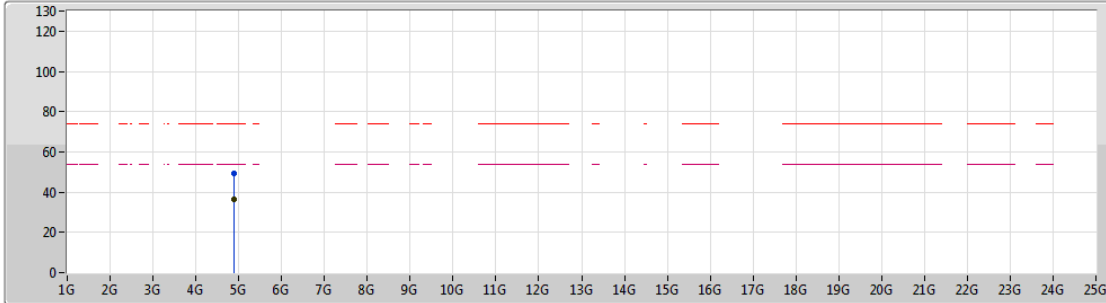
EUT\_Z\_2TX  
 Setting 11.5  
 04-E-2  
 FSP(100304)  
 #7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.89632G	49.79	74.00	-24.21	7.48	3	Vertical	93	1.50	-
AV	4.89728G	36.39	54.00	-17.61	7.48	3	Vertical	93	1.50	-

VHT40\_Nss1,(MCS0)\_2TX

21/02/2019

2452MHz\_TX



Lim.PK  
 PK  
 Lim.AV  
 AV

EUT\_Z\_2TX  
 Setting 11.5  
 04-E-2  
 FSP(100304)  
 #7

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.90358G	49.41	74.00	-24.59	7.50	3	Horizontal	15	2.07	-
AV	4.89992G	36.39	54.00	-17.61	7.49	3	Horizontal	15	2.07	-