



FCC Test Report

Equipment : Wireless-AX11000 Tri-band Gigabit Router
Brand Name : ASUS
Model No. : RT-AX95U, RT-AX11000
FCC ID : MSQ-RTHR00
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz– 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan
Manufacturer (1) : ASKEY TECHNOLOGY (JIANG SU) LTD
NO1388, Jiao Tong Road, Wujiang Economic
Technological Development Area Jiangsu Province
215200 China
Manufacturer (2) : Compal Networking (KunShan) Co., LTD.
No. 520, Nabbang Rd., Economic & Technical
Development Zone Kunshan, Jiangsu Province China

The product sample received on Jan. 18, 2018 and completely tested on Feb. 09, 2018. We, SPORTON, 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

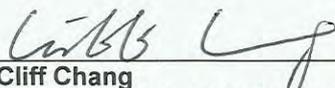

Cliff Chang
SPORTON INTERNATIONAL INC.





Table of Contents

- 1 GENERAL DESCRIPTION5**
- 1.1 Information.....5
- 1.2 Testing Applied Standards9
- 1.3 Testing Location Information9
- 1.4 Measurement Uncertainty9
- 2 TEST CONFIGURATION OF EUT10**
- 2.1 Test Channel Mode10
- 2.2 The Worst Case Measurement Configuration12
- 2.3 EUT Operation during Test13
- 2.4 Accessories14
- 2.5 Support Equipment.....15
- 2.6 Test Setup Diagram16
- 3 TRANSMITTER TEST RESULT19**
- 3.1 AC Power-line Conducted Emissions19
- 3.2 DTS Bandwidth21
- 3.3 Maximum Conducted Output Power22
- 3.4 Power Spectral Density24
- 3.5 Emissions in Non-restricted Frequency Bands26
- 3.6 Emissions in Restricted Frequency Bands.....27
- 4 TEST EQUIPMENT AND CALIBRATION DATA31**

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 RESULTS OF RADIATED EMISSION CO-LOCATION

APPENDIX H. TEST PHOTOS

PHOTOGRAPHS OF EUT V01



Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied
3.2	15.247(a)	DTS Bandwidth	≥500kHz	Complied
3.3	15.247(b)	Maximum Conducted Output Power	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 30 dBc	Complied
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied



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), ax (HE20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ac (VHT40), ax (HE40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11n HT20	20	4TX
2.4-2.4835GHz	802.11ac VHT20	20	4TX
2.4-2.4835GHz	802.11ax HE20	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11ac VHT40	40	4TX
2.4-2.4835GHz	802.11ax HE20	40	4TX

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, 1024QAM modulation.
- HE20, HE40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 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	P/N	Antenna Type	Connector	Gain (dBi)		
	2.4GHz	5GHz Band1	5GHz Band 4					2.4GHz	5GHz Band 1	5GHz Band 4
1	1	-	4	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	1.9
2	2	-	3	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	1.9
3	3	-	2	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	1.9
4	4	-	1	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	1.9
5	-	1	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-
6	-	2	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-
7	-	3	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-
8	-	4	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-

Note:

<For 2.4GHz Band>

For IEEE 802.11b/g/n/ac/ax mode <4TX/4RX>:

Ant.1 (Port 1), Ant.2 (Port 2), Ant.3 (Port 3) and Ant.4 (Port 4) will transmit/receive the same signal simultaneously.

Ant.1 (Port 1), Ant.2 (Port 2), Ant.3 (Port 3) and Ant.4 (Port 4) can be used as transmitting/receiving antennas.

<For 5GHz Band>

For Band 1

For IEEE 802.11a/n/ac/ax mode <4TX/4RX>:

Ant.5 (Port 1), Ant.6 (Port 2), Ant.7 (Port 3) and Ant.8 (Port 4) will transmit/receive the same signal simultaneously.

Ant.5 (Port 1), Ant.6 (Port 2), Ant.7 (Port 3) and Ant.8 (Port 4) can be used as transmitting/receiving antennas.

For Band 4

For IEEE 802.11a/n/ac/ax mode <4TX/4RX>:

Ant.1 (Port 4), Ant.2 (Port 3), Ant.3 (Port 2) and Ant.4 (Port 1) will transmit/receive the same signal simultaneously.

Ant.1 (Port 4), Ant.2 (Port 3), Ant.3 (Port 2) and Ant.4 (Port 1) can be used as transmitting/receiving antennas.



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.967	0.146	12.418m	100
802.11g	0.958	0.186	2.065m	1k
802.11ac VHT20	0.952	0.214	1.929m	1k
802.11ac VHT40	0.883	0.54	936.875u	3k
802.11ax HE20	0.941	0.264	1.473m	1k
802.11ax HE40	0.836	0.778	736.875u	3k



1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter		
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming 802.11n/ac/ax in 5GHz	<input type="checkbox"/> Without beamforming
Test Software Version	accessMTool_3_0_0_5		

1.1.5 Table for Multiple Listing

The EUT has two model names which are identical to each other in all aspects except for the following table:

Model Name	Description
RT-AX95U	All the models are identical, the different model names served as marketing strategy.
RT-AX11000	

From the above models, model: RT-AX95U was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for SKU information

EUT No.	SUK No.	Brand Name	P/N
1	SUK 1	SWAPnet	NS777203*2
		SWAPnet	NS771802*1
2	SUK 2	Mingtek	HN8011VG*2
		Mingtek	HN18101DG*1

Note: For Conducted Emission test and Radiated Emissions <Below 1GHz>, these items were assessed both SKU1 and SKU2. For the others test item, only the SUK1 was tested.



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	Paul Chan	20°C / 50%	Jan. 18, 2018~Feb. 07, 2018
Radiated below 1GHz	03CH01-CB	Lance Wu / Nyle Chang / Joy Tseng	20°C / 50%	Feb. 09, 2018
Radiated above 1GHz	03CH01-CB	Lance Wu / Nyle Chang	20°C / 50%	Jan. 19, 2018 ~ Feb. 06, 2018
AC Conduction	CO01-CB	Ryo Fan	18°C / 61%	Jan. 31, 2018~Feb. 01, 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)_4TX	-
2412MHz	86
2437MHz	87
2452MHz	88
2457MHz	88
2462MHz	88
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	84
2417MHz	93
2422MHz	95
2437MHz	97
2442MHz	96
2447MHz	92
2452MHz	91
2457MHz	92
2462MHz	92
802.11ac VHT20_Nss1,(MCS0)_4TX	-
2412MHz	83
2417MHz	85
2422MHz	89
2427MHz	95
2432MHz	96
2437MHz	95
2442MHz	96
2447MHz	94
2452MHz	88
2457MHz	88
2462MHz	82
802.11ac VHT40_Nss1,(MCS0)_4TX	-
2422MHz	73
2427MHz	72
2432MHz	72
2437MHz	78
2442MHz	73
2447MHz	73
2452MHz	72
HE20_Nss1,(MCS0)_4TX	-
2412MHz	78



Mode	Power Setting
2417MHz	84
2422MHz	88
2427MHz	94
2432MHz	95
2437MHz	95
2442MHz	94
2447MHz	89
2452MHz	89
2457MHz	82
2462MHz	77
HE40_Nss1,(MCS0)_4TX	-
2422MHz	71
2427MHz	72
2432MHz	70
2437MHz	75
2447MHz	74
2452MHz	70

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	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
	The EUT has two SKUs and equips with adapter 1 ~ adapter 3. After evaluated, EUT 1 (SKU1) + adapter 1 generated the worst test result, thus the measurement test will follow this same test
1	EUT 1 (SKU1) + Adapter 1

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
1	EUT 1 (SKU1) + Adapter 3

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	Normal Link
	The EUT has two SKUs and equips with adapter 1 ~ adapter 3. After evaluated, EUT 2 (SKU2) + adapter 3 generated the worst test result, thus the measurement test will follow this same test configuration.
1	EUT 2 (SKU2) + Adapter 3 in Z axis
Operating Mode > 1GHz	CTX
1	EUT 1 (SKU1) in Z axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	EUT 1 (SKU1) in Z axis - WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1 (SKU1) - WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA812227 for Co-location RF Exposure Evaluation.	

Note: The EUT supports master mode (AP mode) and only be used at Z axis.

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				
Equipment Name	Brand Name	Model Name	Type	Rating
Adapter 1	DELTA	ADP-65DW B	-	INPUT: 100-240V~50-60Hz, 1.5A OUTPUT: 19V, 3.42A
Adapter 2	DELTA	ADP-65DW Y	-	INPUT: 100-240V~50-60Hz, 1.5A OUTPUT: 19V, 3.42A
Adapter 3	PI	AD2087320	010-1LF	INPUT: 100-240V~50/60Hz, 1.5A OUTPUT: 19V, 3.42A
Other				
RJ-45 Cable: Shielded, 1.5m				

Note: For Conducted Emission test and Radiated Emissions <Below 1GHz>, these items were assessed both Adapter 1, Adapter 2 and Adapter 3. For the others test item, only the Adapter 3 was tested.



2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*6	DELL	E6430	DoC
2	HDD3.0*2	WD	WDBACY5000AWT	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*3	DELL	E4300	DoC
2	NB*3	Apple	Mac Book	DoC
3	WLAN Dongle*2	LINKSYS	AE6000	Q87-AE6000

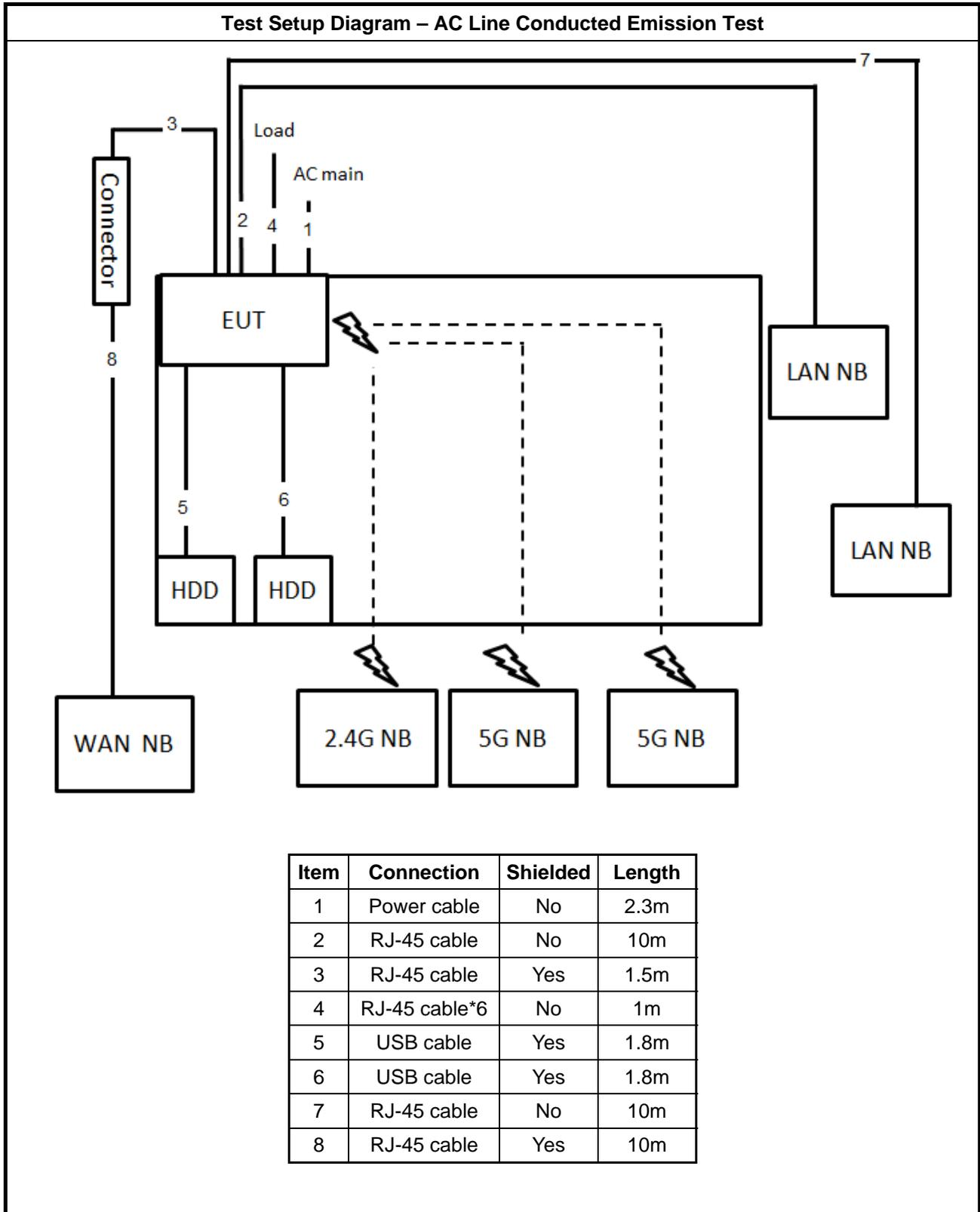
For Test Site No: 03CH01-CB (above 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

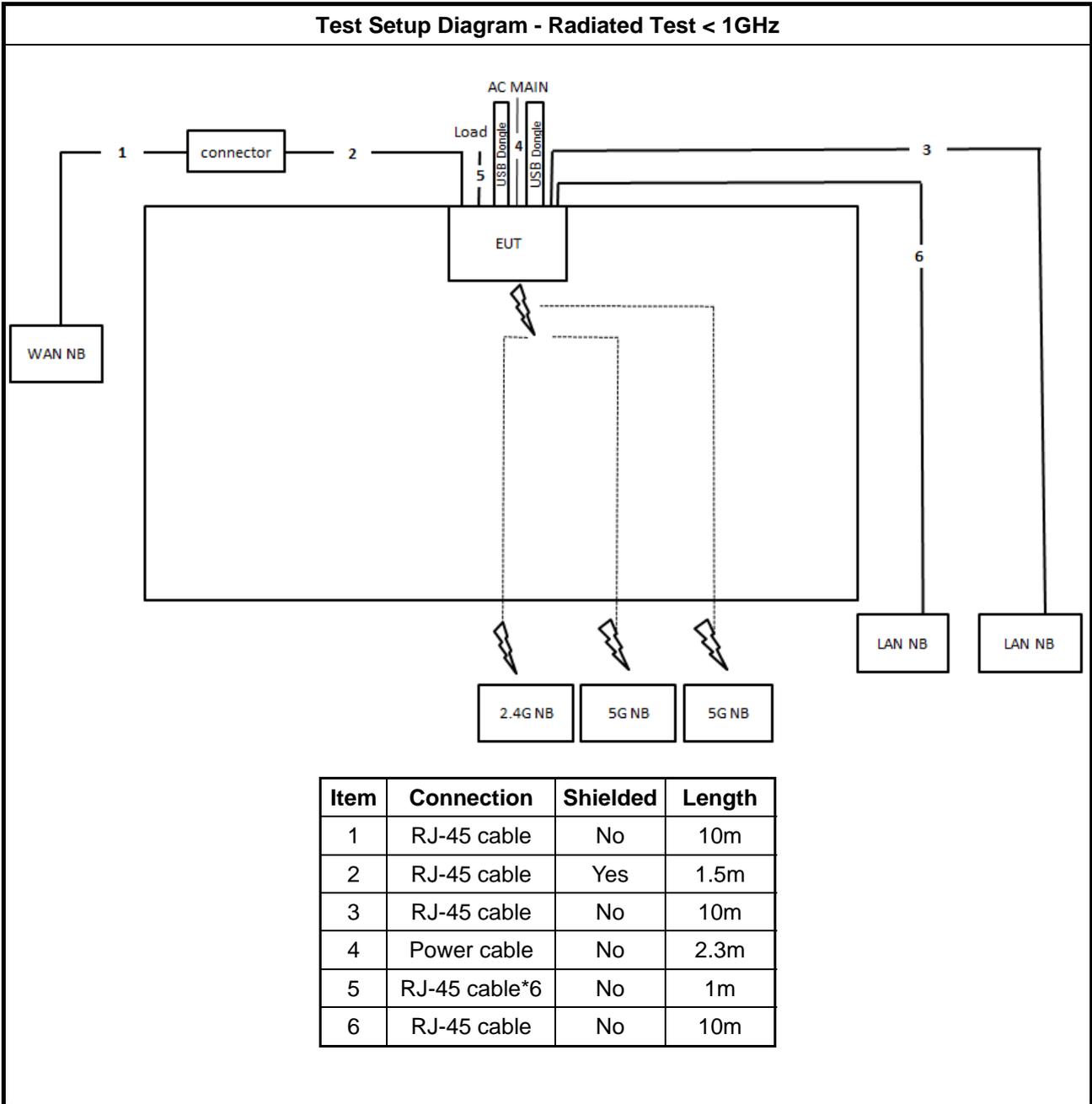
For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

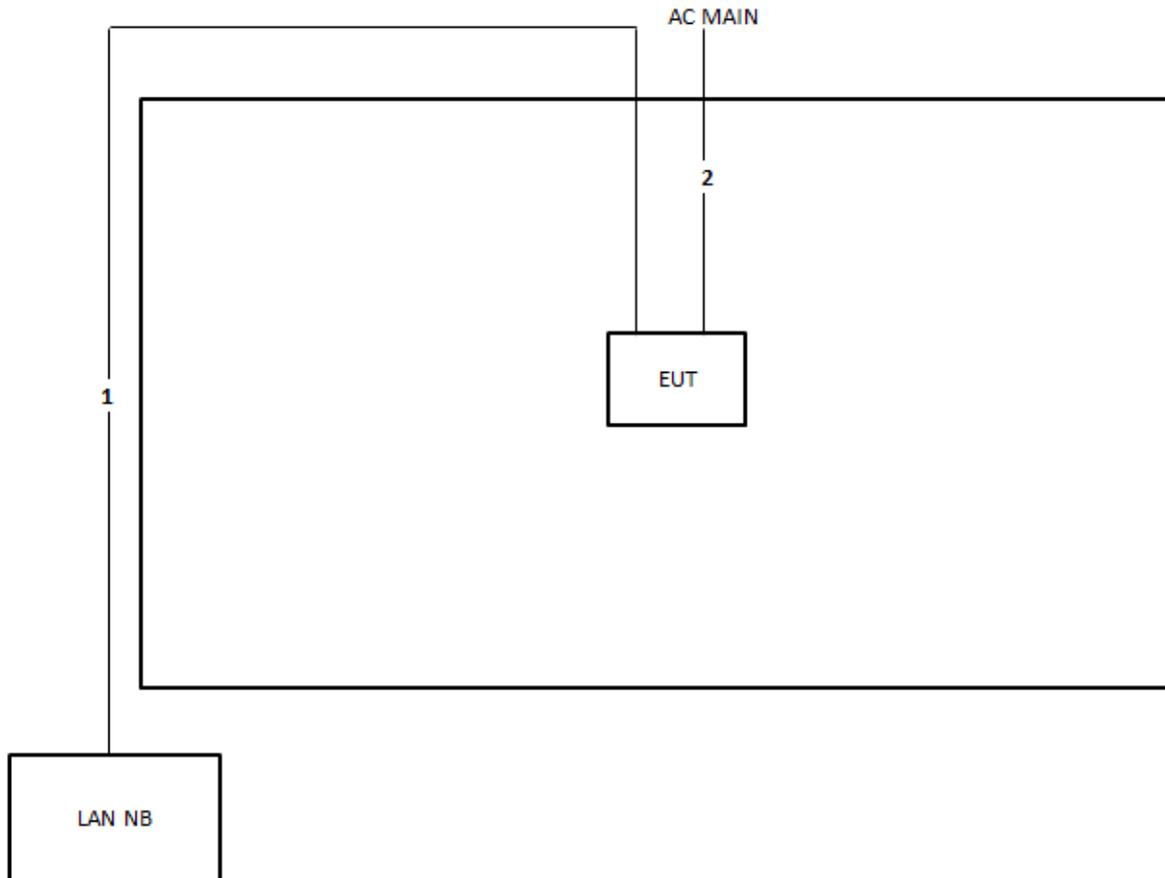
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz



Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	2.3m



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.

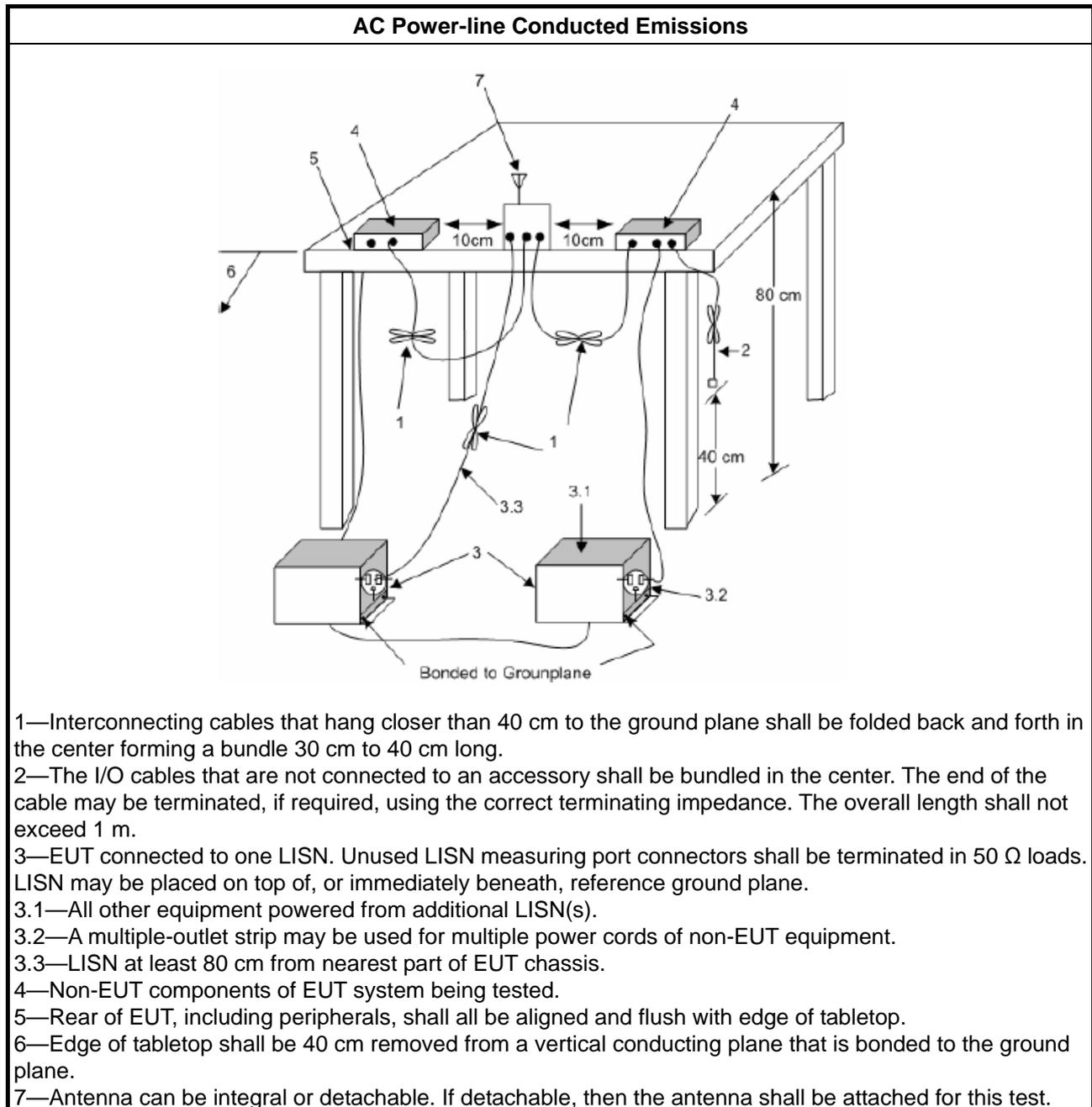
3.1.2 Measuring Instruments

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.

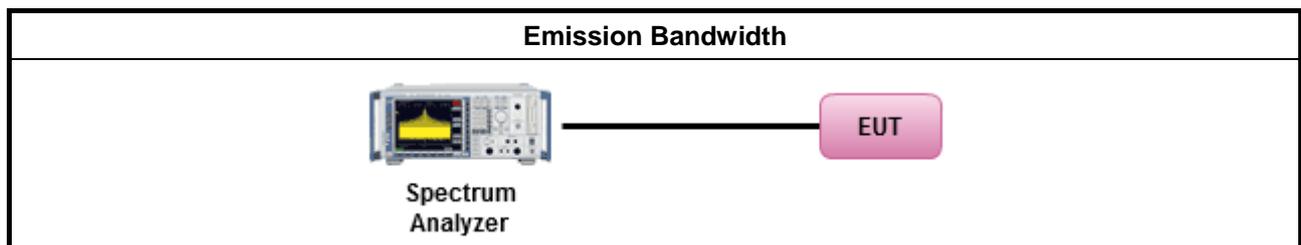
3.2.2 Measuring Instruments

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	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

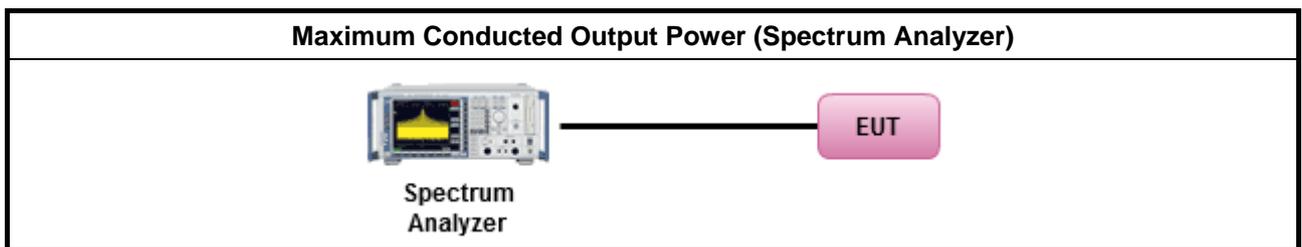
3.3.2 Measuring Instruments

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 9.1.2 Option 2 (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)
RF power meter and average over on/off periods with duty factor or gated trigger	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.
<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

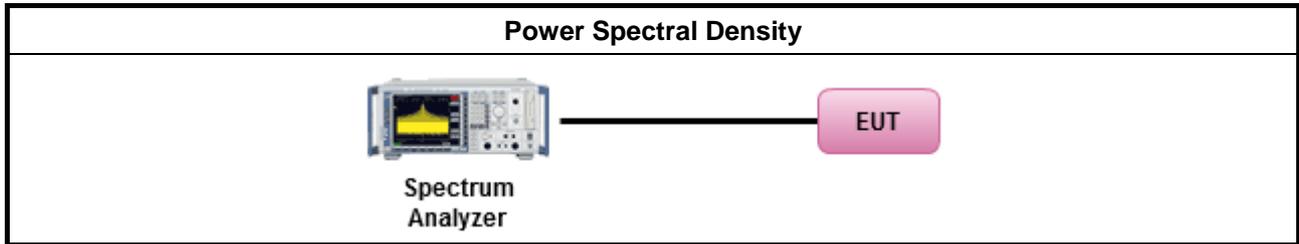
3.4.2 Measuring Instruments

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: <ul style="list-style-type: none"> <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.

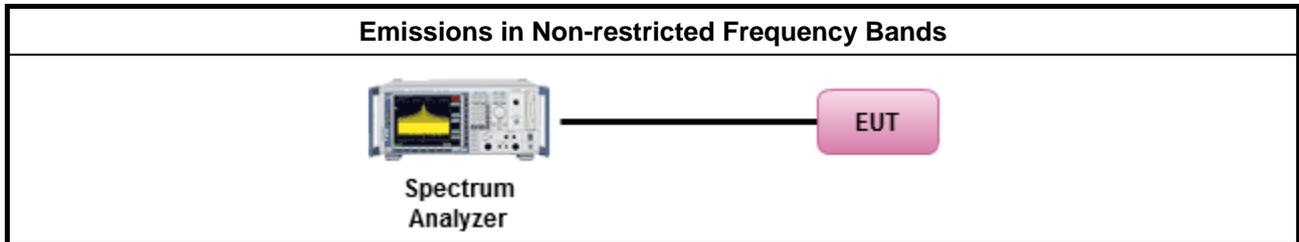
3.5.2 Measuring Instruments

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.

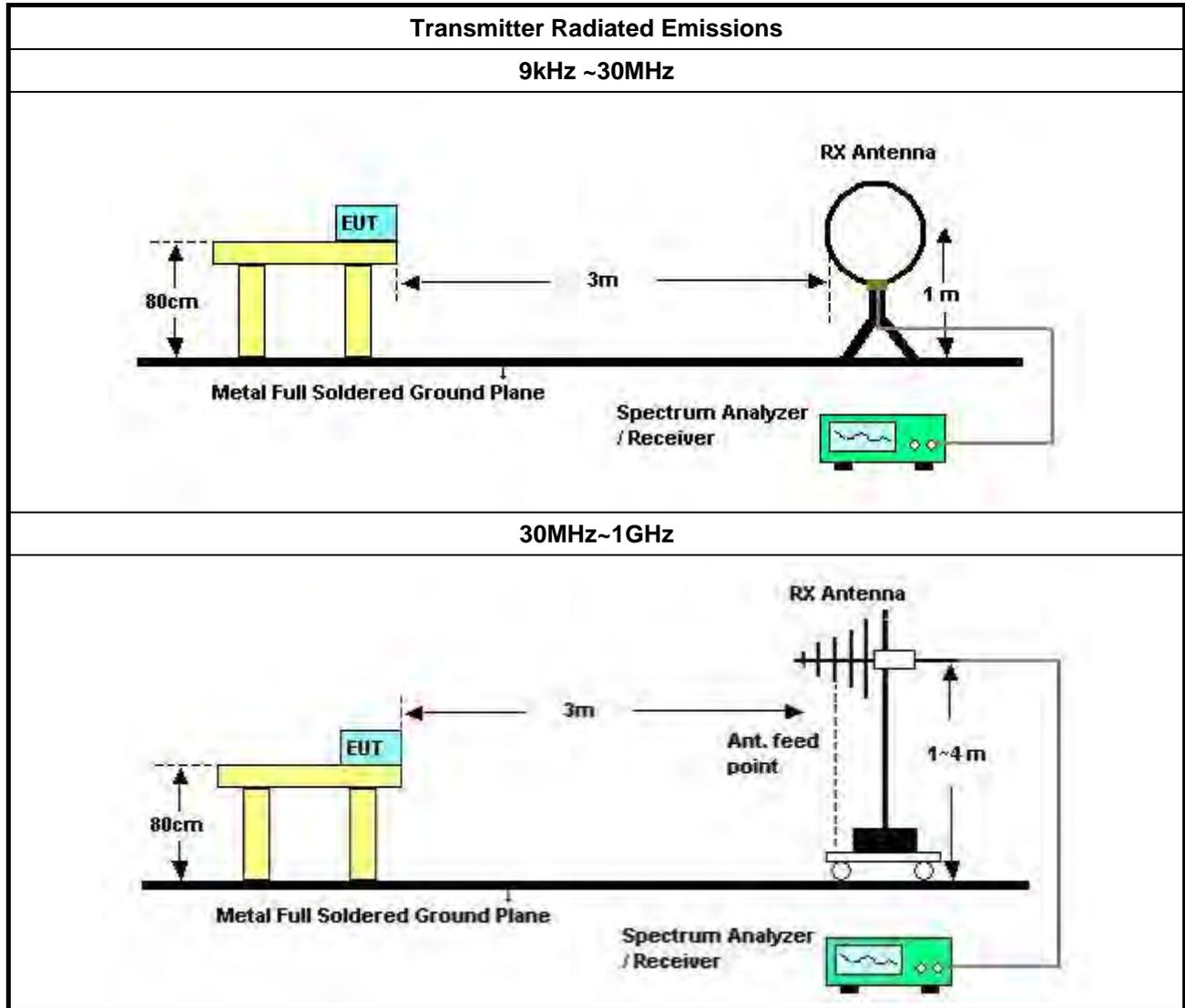
3.6.2 Measuring Instruments

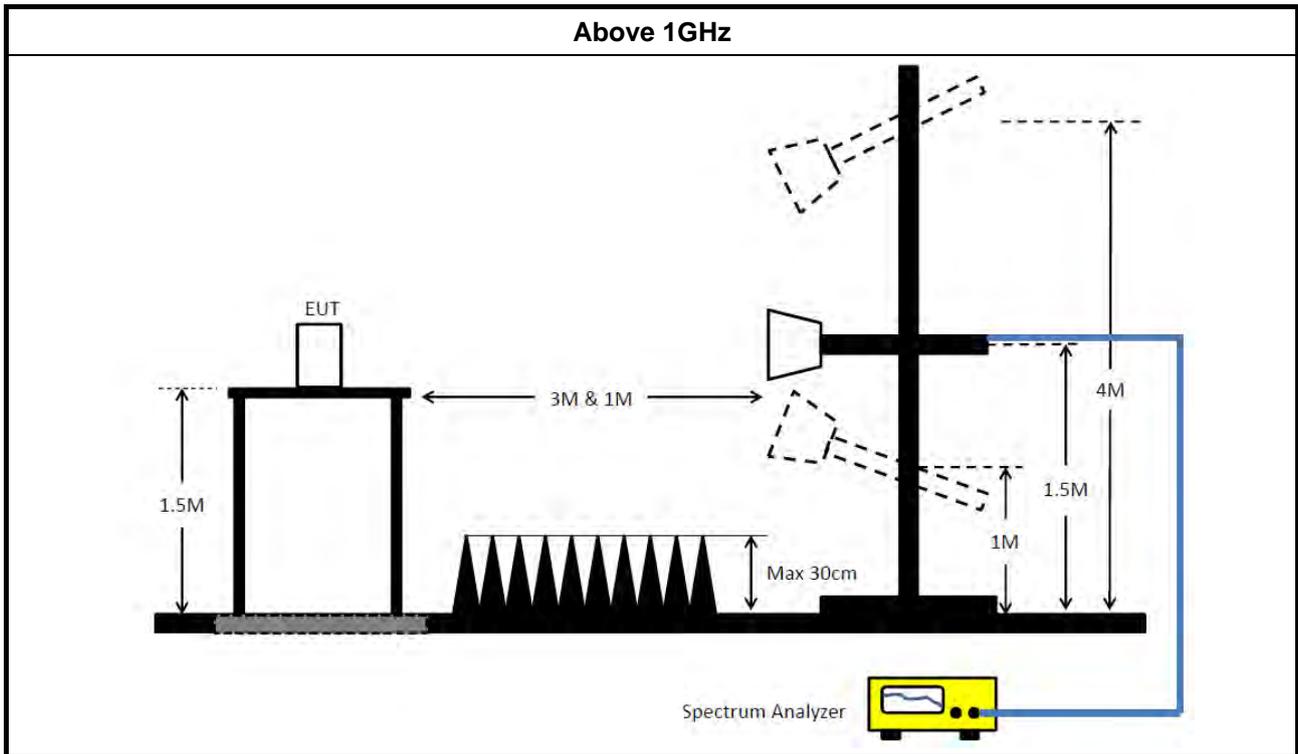
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 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





3.6.5 Transmitter Radiated Unwanted Emissions (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.

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 17, 2018	Jan. 16, 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)
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, 2016*	Mar. 15, 2018*	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. 16, 2017	Jan. 15, 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)
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)



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. 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.

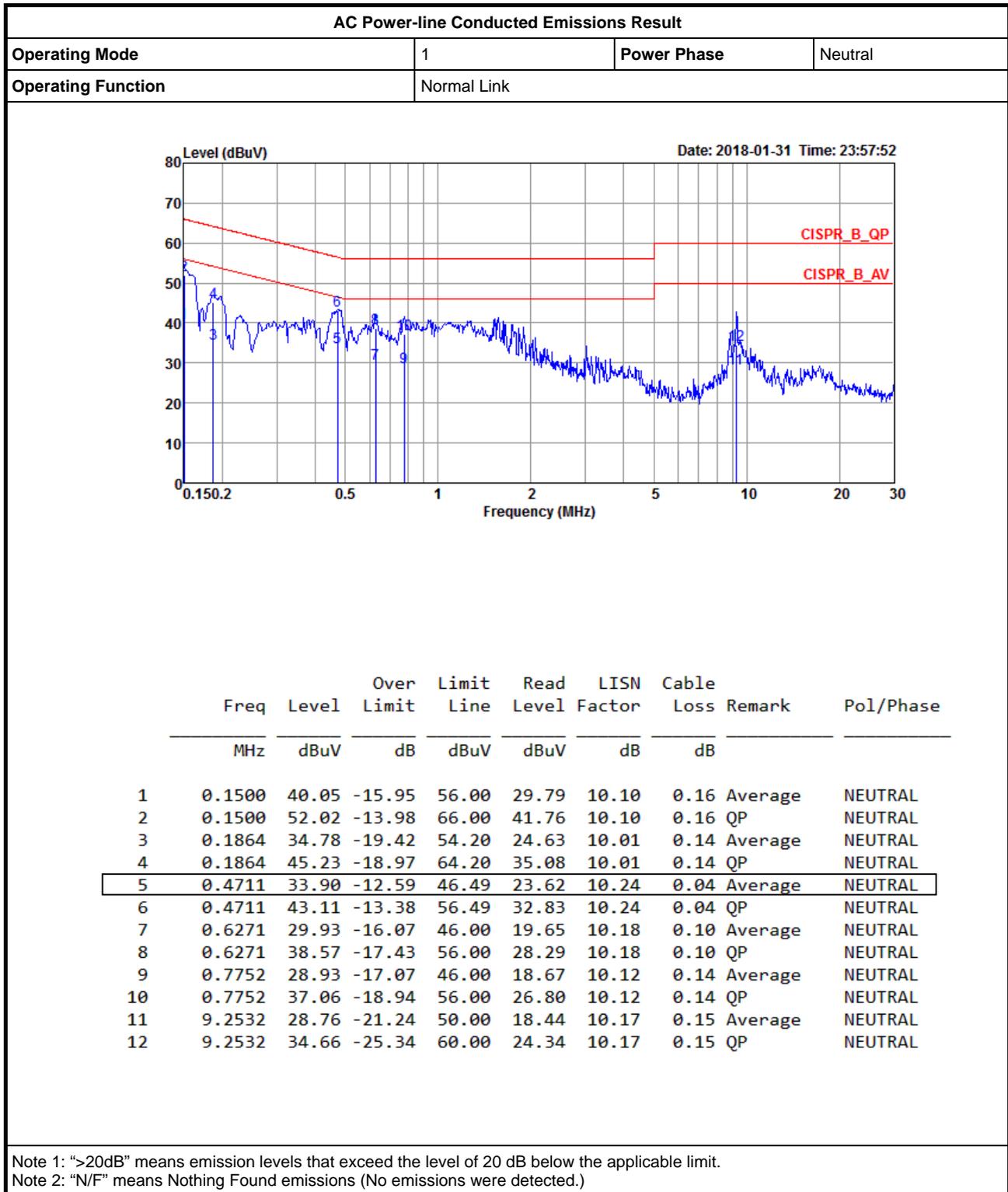
“**” Calibration Interval of instruments listed above is two years.

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



AC Power-line Conducted Emissions Result

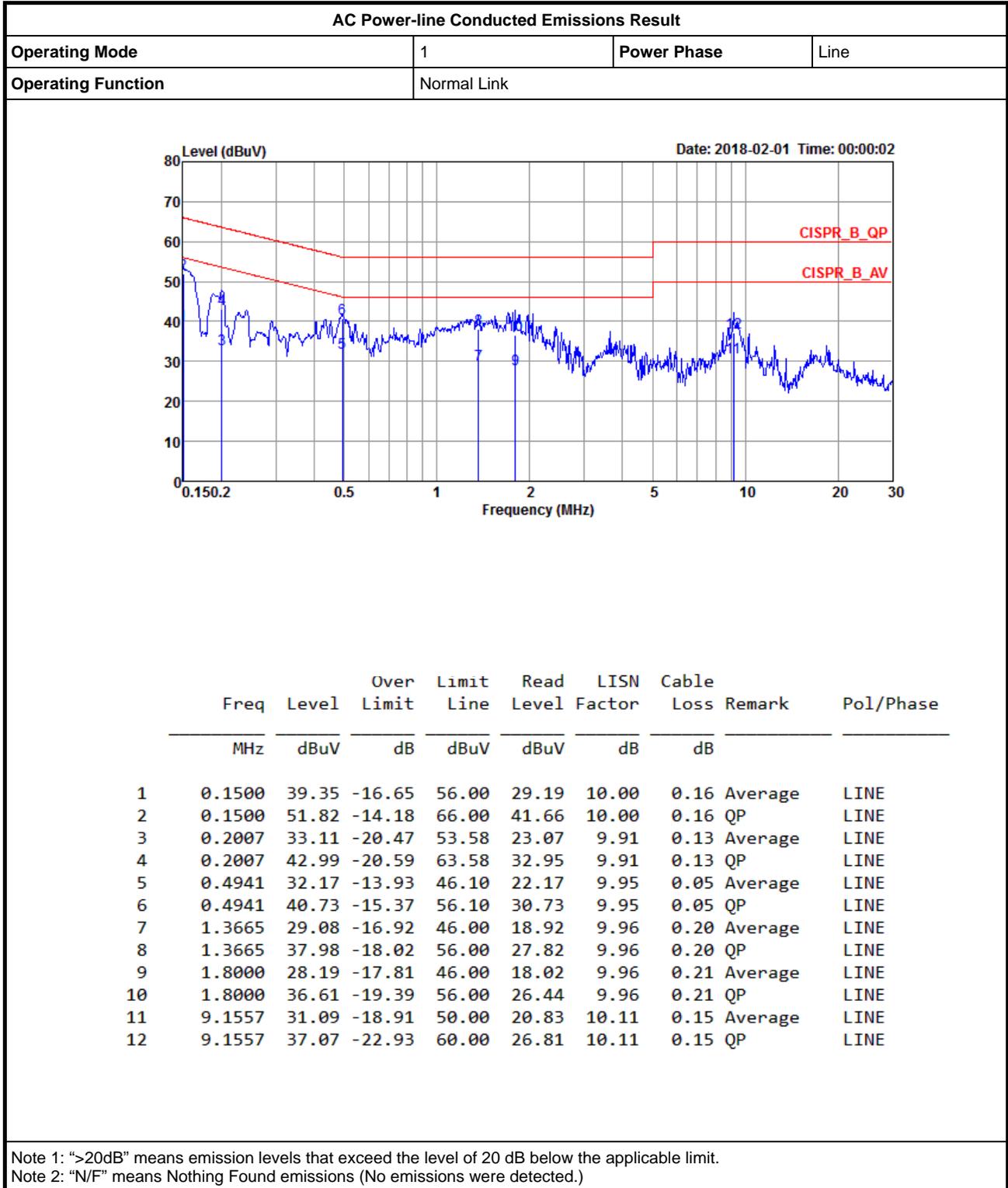
Appendix A





AC Power-line Conducted Emissions Result

Appendix A



Summary

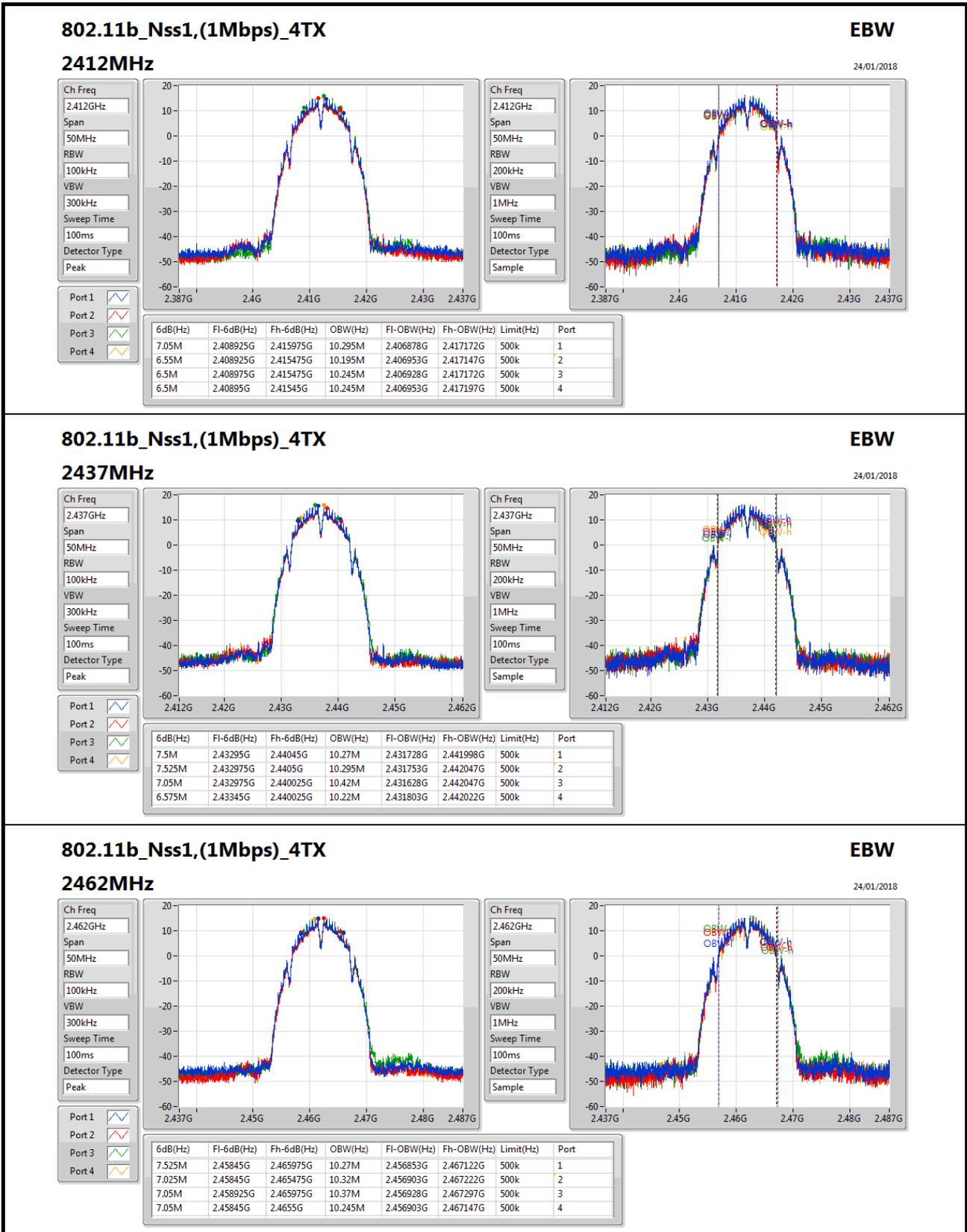
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	7.525M	10.42M	10M4G1D	6.5M	10.195M
802.11g_Nss1,(6Mbps)_4TX	16.4M	16.617M	16M6D1D	15.7M	16.467M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.6M	17.816M	17M8D1D	16.925M	17.716M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.35M	36.332M	36M3D1D	35M	35.982M
HE20_Nss1,(MCS0)_4TX	18.95M	18.991M	19M0D1D	18.225M	18.891M
HE40_Nss1,(MCS0)_4TX	37.5M	37.731M	37M7D1D	35.35M	37.331M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.05M	10.295M	6.55M	10.195M	6.5M	10.245M	6.5M	10.245M
2437MHz	Pass	500k	7.5M	10.27M	7.525M	10.295M	7.05M	10.42M	6.575M	10.22M
2462MHz	Pass	500k	7.525M	10.27M	7.025M	10.32M	7.05M	10.37M	7.05M	10.245M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.567M	16.275M	16.542M	16.3M	16.467M	15.7M	16.492M
2437MHz	Pass	500k	15.725M	16.542M	16.325M	16.542M	16.325M	16.592M	16.325M	16.592M
2462MHz	Pass	500k	16.325M	16.617M	16.4M	16.517M	16.075M	16.567M	16.35M	16.542M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.55M	17.791M	17.575M	17.716M	16.925M	17.766M	16.975M	17.741M
2437MHz	Pass	500k	17.175M	17.716M	17.575M	17.741M	17.575M	17.816M	17.55M	17.766M
2462MHz	Pass	500k	17.6M	17.791M	17.575M	17.741M	17.6M	17.766M	17.575M	17.741M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35.45M	36.132M	35.05M	35.982M	35M	36.032M	35.25M	36.132M
2437MHz	Pass	500k	35.7M	36.082M	36.35M	36.282M	35.7M	36.332M	36.35M	36.182M
2452MHz	Pass	500k	35.75M	36.232M	36.35M	36.332M	36.3M	36.332M	36.35M	36.332M
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.825M	18.991M	18.825M	18.916M	18.225M	18.891M	18.525M	18.966M
2437MHz	Pass	500k	18.675M	18.966M	18.825M	18.991M	18.825M	18.991M	18.95M	18.966M
2462MHz	Pass	500k	18.875M	18.991M	18.3M	18.991M	18.775M	18.991M	18.75M	18.916M
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.25M	37.381M	36.1M	37.481M	35.35M	37.431M	35.75M	37.331M
2437MHz	Pass	500k	36.3M	37.331M	37.25M	37.581M	36.4M	37.631M	37.3M	37.581M
2452MHz	Pass	500k	37.3M	37.531M	36.75M	37.731M	37.5M	37.631M	37.15M	37.681M

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


802.11b_Nss1,(1Mbps)_4TX
EBW

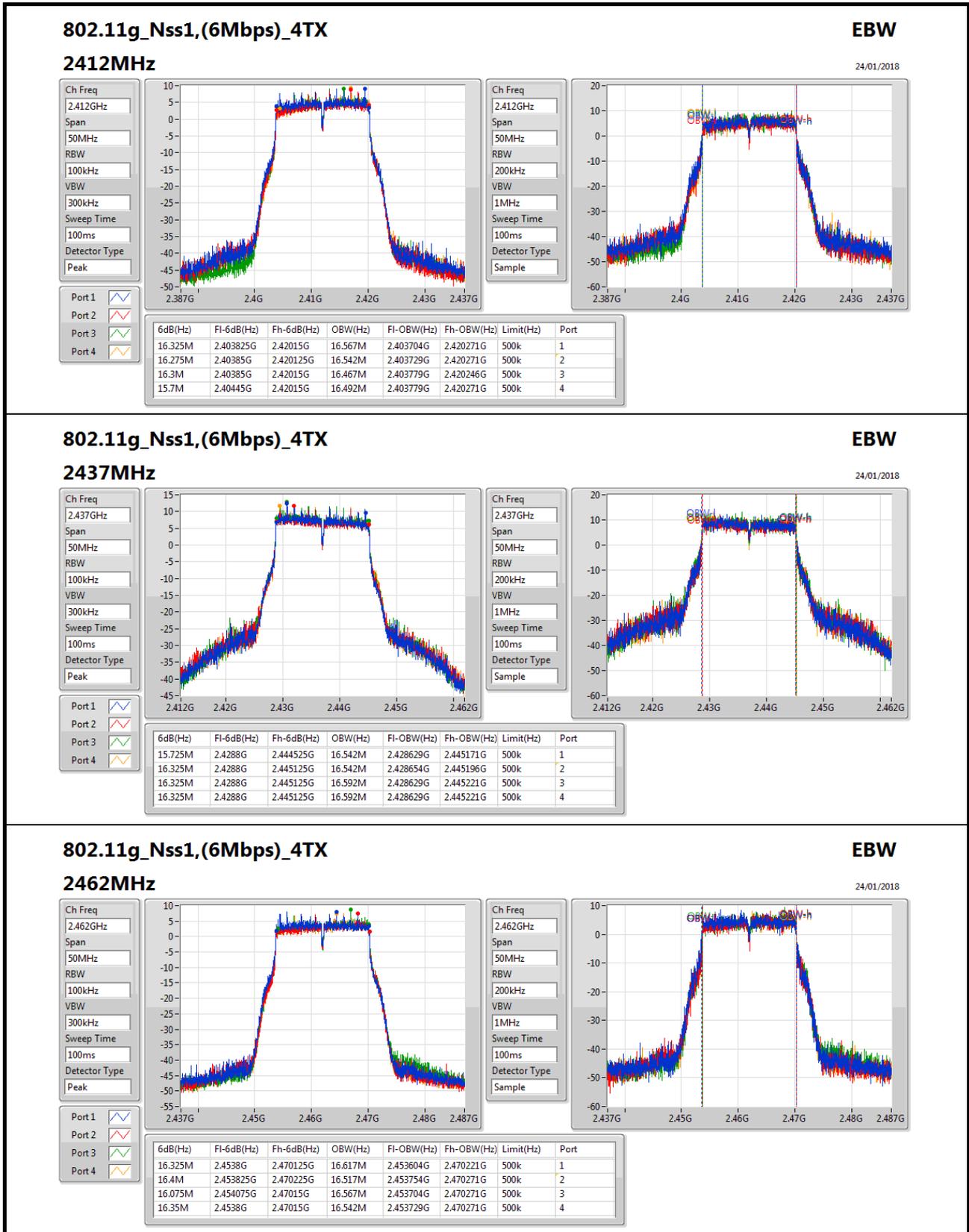
24/01/2018

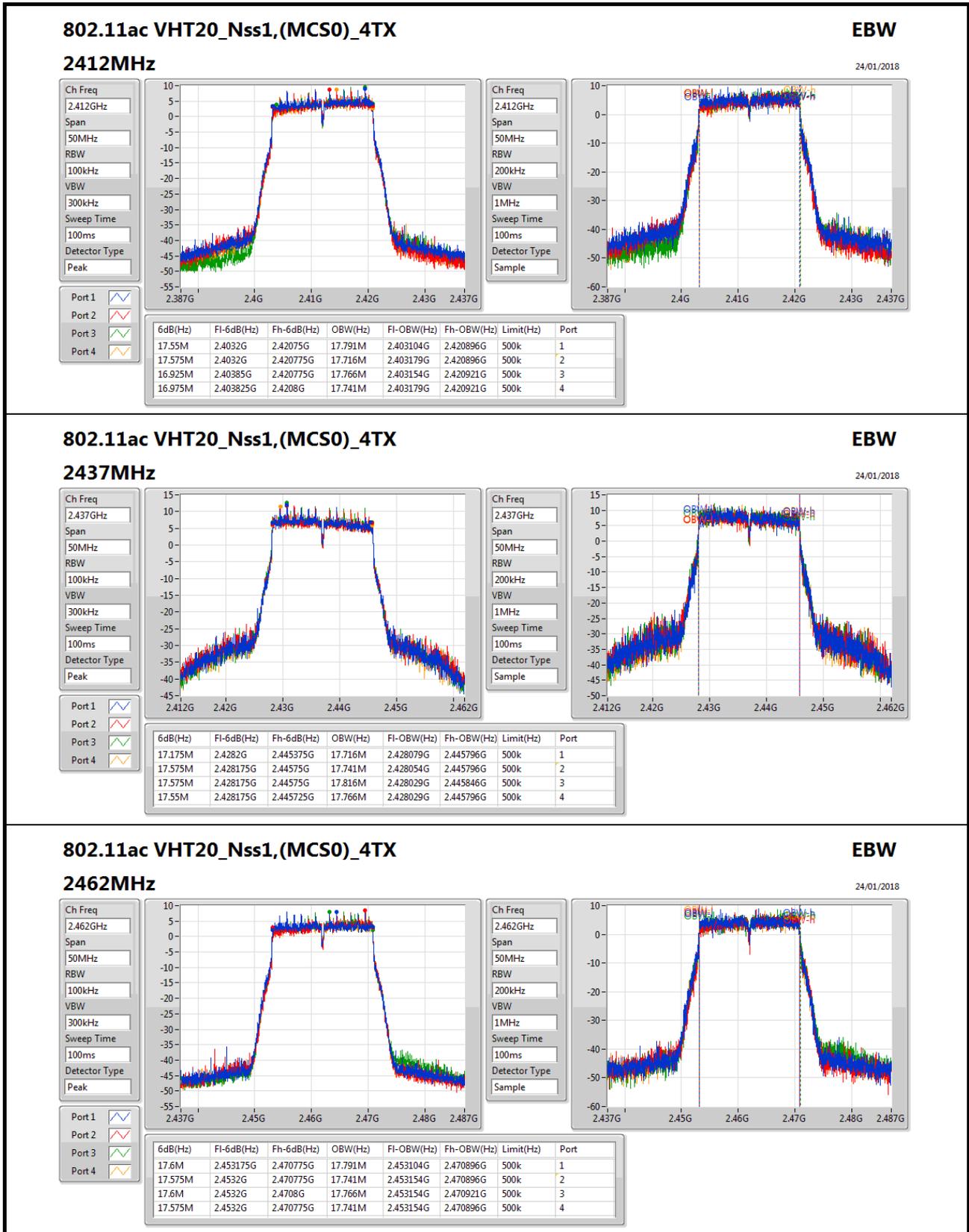
2462MHz

Ch Freq: 2.462GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Ch Freq: 2.462GHz
Span: 50MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.525M	2.45845G	2.465975G	10.27M	2.456853G	2.467122G	500k	1
7.025M	2.45845G	2.465475G	10.32M	2.456903G	2.467222G	500k	2
7.05M	2.458925G	2.465975G	10.37M	2.456928G	2.467297G	500k	3
7.05M	2.45845G	2.4655G	10.245M	2.456903G	2.467147G	500k	4




802.11ac VHT20_Nss1,(MCS0)_4TX
EBW

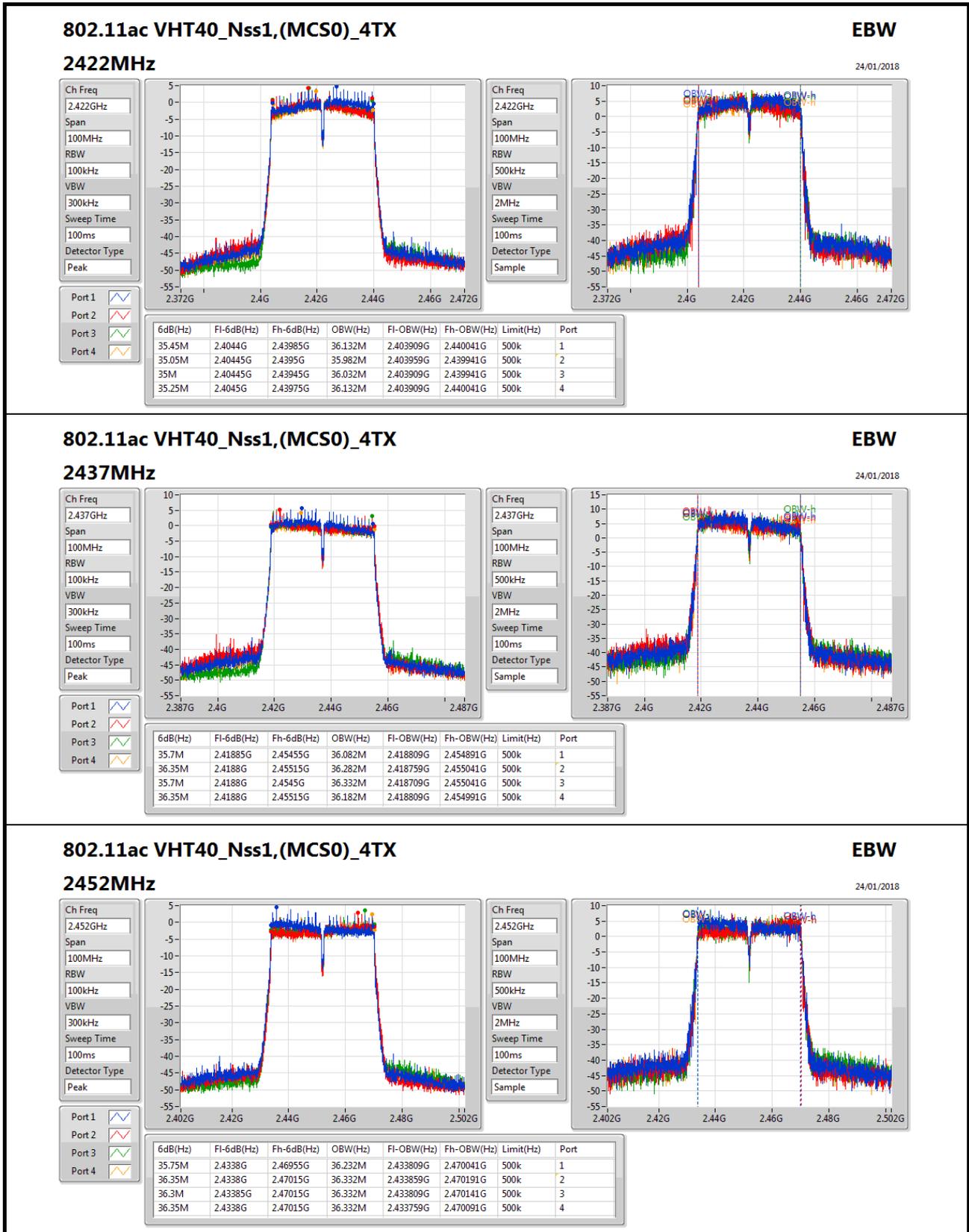
24/01/2018

2462MHz

Ch Freq: 2.462GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Ch Freq: 2.462GHz
Span: 50MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.6M	2.453175G	2.470775G	17.791M	2.453104G	2.470896G	500k	1
17.575M	2.4532G	2.470775G	17.741M	2.453154G	2.470896G	500k	2
17.6M	2.4532G	2.4708G	17.766M	2.453154G	2.470921G	500k	3
17.575M	2.4532G	2.470775G	17.741M	2.453154G	2.470896G	500k	4


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW

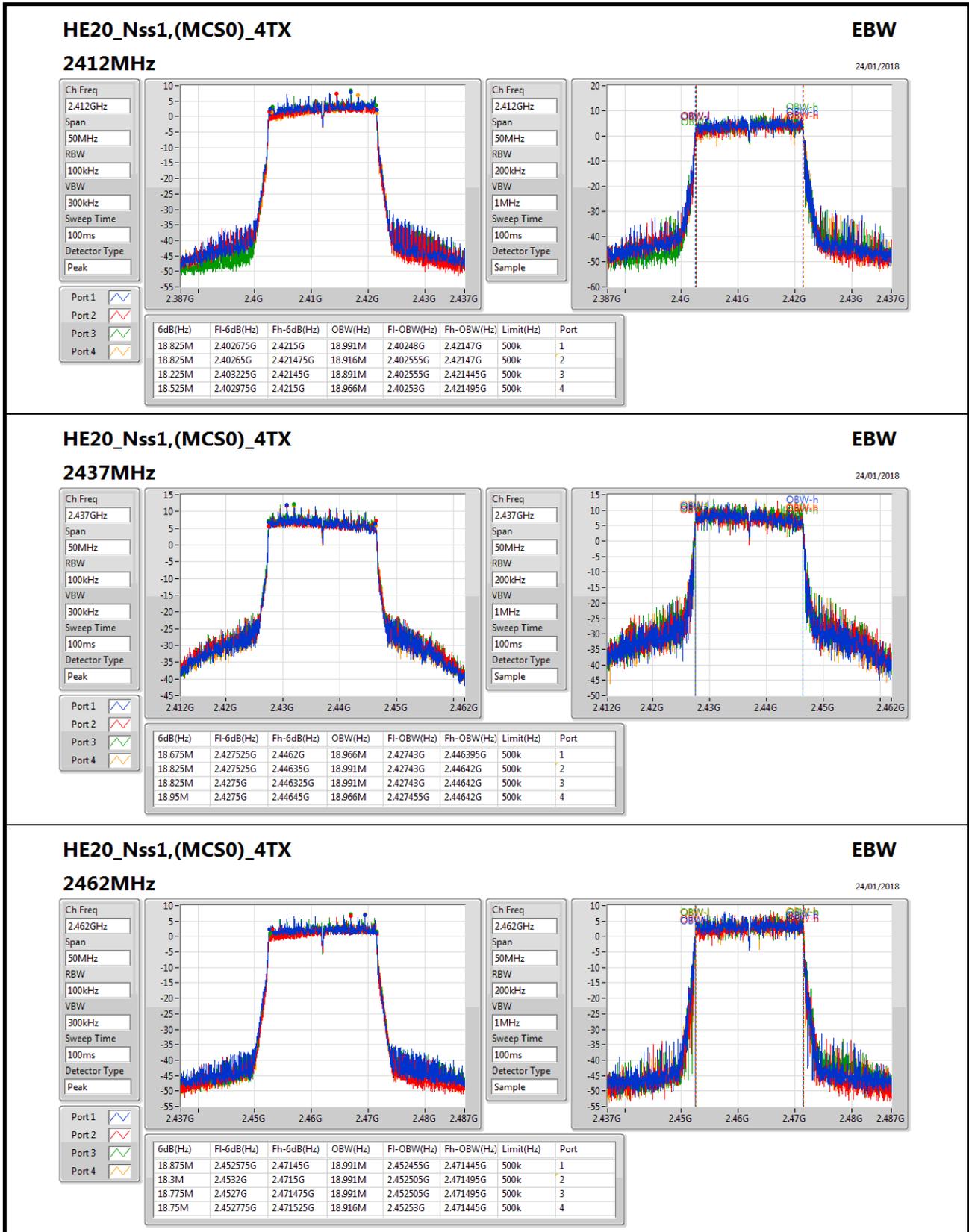
24/01/2018

2452MHz

Ch Freq: 2.452GHz
Span: 100MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Ch Freq: 2.452GHz
Span: 100MHz
RBW: 500kHz
VBW: 2MHz
Sweep Time: 100ms
Detector Type: Sample

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.75M	2.4338G	2.46955G	36.232M	2.433809G	2.470041G	500k	1
36.35M	2.4338G	2.47015G	36.332M	2.433859G	2.470191G	500k	2
36.3M	2.43385G	2.47015G	36.332M	2.433809G	2.470141G	500k	3
36.35M	2.4338G	2.47015G	36.332M	2.433759G	2.470091G	500k	4







Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	29.91	0.97949
802.11g_Nss1,(6Mbps)_4TX	29.94	0.98628
802.11ac_VHT20_Nss1,(MCS0)_4TX	29.94	0.98628
802.11ac_VHT40_Nss1,(MCS0)_4TX	25.63	0.36559
HE20_Nss1,(MCS0)_4TX	29.87	0.97051
HE40_Nss1,(MCS0)_4TX	25.08	0.32211

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.90	24.04	23.13	24.22	23.51	29.77	30.00
2437MHz	Pass	1.90	23.76	23.43	24.18	23.55	29.76	30.00
2462MHz	Pass	1.90	23.78	23.26	24.09	23.81	29.77	30.00
2452MHz	Pass	1.90	24.01	23.33	24.24	23.92	29.91	30.00
2457MHz	Pass	1.90	23.72	23.32	24.14	23.83	29.78	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.90	21.47	20.81	21.42	21.16	27.24	30.00
2437MHz	Pass	1.90	23.92	22.71	24.43	24.12	29.86	30.00
2462MHz	Pass	1.90	20.24	19.78	20.61	20.03	26.20	30.00
2417MHz	Pass	1.90	23.62	22.94	23.79	23.63	29.53	30.00
2422MHz	Pass	1.90	24.11	23.44	24.19	23.88	29.94	30.00
2442MHz	Pass	1.90	24.02	23.26	24.23	24.02	29.92	30.00
2447MHz	Pass	1.90	22.92	22.26	23.02	22.76	28.77	30.00
2452MHz	Pass	1.90	22.92	21.98	22.79	21.29	28.31	30.00
2457MHz	Pass	1.90	22.95	22.12	23.24	22.94	28.85	30.00
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.90	21.22	20.51	21.27	20.96	27.02	30.00
2437MHz	Pass	1.90	23.84	23.18	24.15	23.87	29.79	30.00
2462MHz	Pass	1.90	20.41	19.77	20.81	20.07	26.30	30.00
2417MHz	Pass	1.90	21.54	21.29	21.58	21.24	27.44	30.00
2422MHz	Pass	1.90	22.23	22.05	22.79	21.98	28.29	30.00
2427MHz	Pass	1.90	21.03	23.14	23.93	23.70	29.11	30.00
2432MHz	Pass	1.90	23.99	23.39	24.33	23.66	29.88	30.00
2442MHz	Pass	1.90	23.92	23.23	24.39	24.06	29.94	30.00
2447MHz	Pass	1.90	23.22	22.51	23.64	23.36	29.22	30.00
2452MHz	Pass	1.90	21.84	21.04	22.20	21.85	27.77	30.00
2457MHz	Pass	1.90	21.23	20.43	22.35	21.74	27.51	30.00
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	1.90	18.66	18.35	18.93	18.04	24.53	30.00
2437MHz	Pass	1.90	19.92	19.24	19.93	19.29	25.63	30.00
2452MHz	Pass	1.90	18.35	17.69	18.03	17.53	23.93	30.00
2427MHz	Pass	1.90	17.88	17.75	18.46	17.62	23.96	30.00
2432MHz	Pass	1.90	17.80	17.65	18.41	17.61	23.90	30.00



AV Power Result

Appendix C

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
2442MHz	Pass	1.90	18.73	17.95	18.62	17.96	24.35	30.00
2447MHz	Pass	1.90	18.69	18.10	18.38	18.03	24.33	30.00
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.90	20.37	19.70	20.33	19.60	26.03	30.00
2437MHz	Pass	1.90	24.06	23.09	24.15	23.86	29.83	30.00
2462MHz	Pass	1.90	19.52	18.87	19.56	19.23	25.32	30.00
2417MHz	Pass	1.90	21.50	20.89	21.61	21.26	27.34	30.00
2422MHz	Pass	1.90	22.31	21.80	22.38	22.40	28.25	30.00
2427MHz	Pass	1.90	23.90	23.24	23.90	23.90	29.76	30.00
2432MHz	Pass	1.90	23.84	23.16	24.30	24.00	29.87	30.00
2442MHz	Pass	1.90	23.74	22.83	24.03	23.73	29.63	30.00
2447MHz	Pass	1.90	22.53	21.73	22.83	22.30	28.39	30.00
2452MHz	Pass	1.90	22.09	21.43	22.45	22.15	28.07	30.00
2457MHz	Pass	1.90	20.71	20.02	20.85	20.59	26.57	30.00
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	1.90	18.67	17.93	18.34	17.38	24.13	30.00
2437MHz	Pass	1.90	19.45	18.66	19.36	18.70	25.08	30.00
2452MHz	Pass	1.90	18.12	17.47	17.52	17.36	23.65	30.00
2427MHz	Pass	1.90	18.69	18.03	18.73	17.77	24.35	30.00
2432MHz	Pass	1.90	17.60	17.61	17.61	17.33	23.56	30.00
2447MHz	Pass	1.90	19.14	18.50	18.97	18.39	24.78	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	5.39
802.11g_Nss1,(6Mbps)_4TX	4.20
802.11ac VHT20_Nss1,(MCS0)_4TX	2.98
802.11ac VHT40_Nss1,(MCS0)_4TX	-3.65
HE20_Nss1,(MCS0)_4TX	4.18
HE40_Nss1,(MCS0)_4TX	-4.52

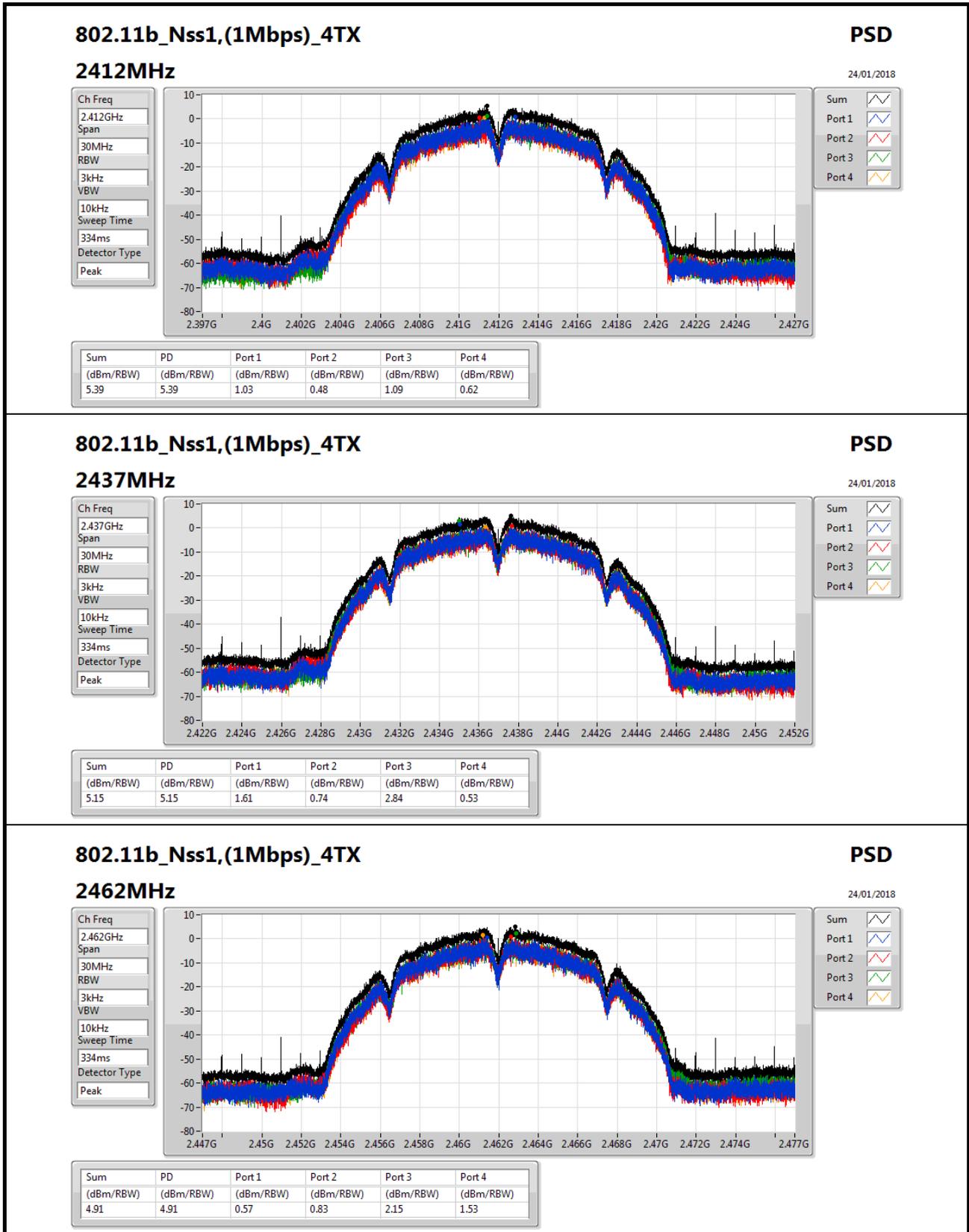
RBW=3kHz.

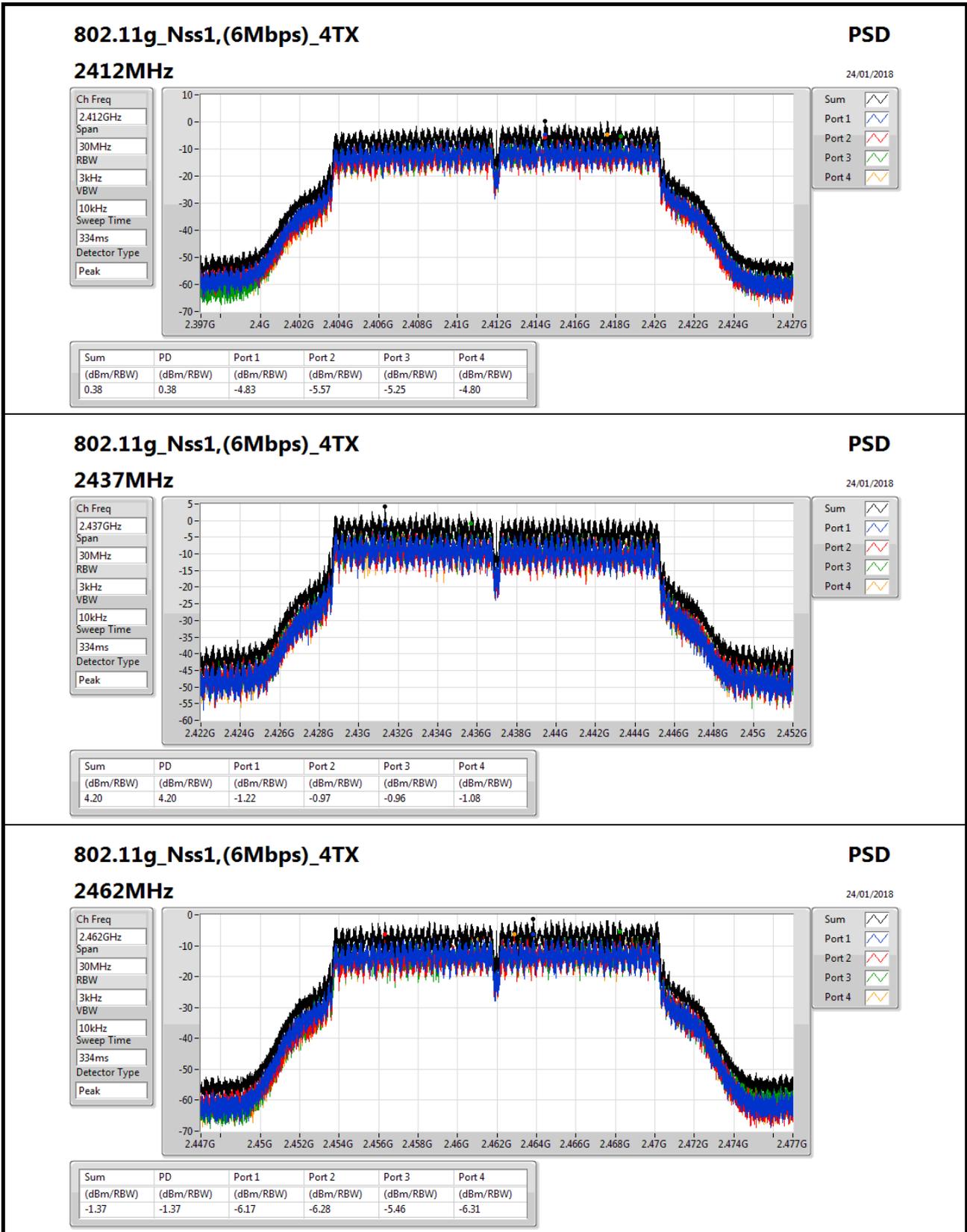
Result

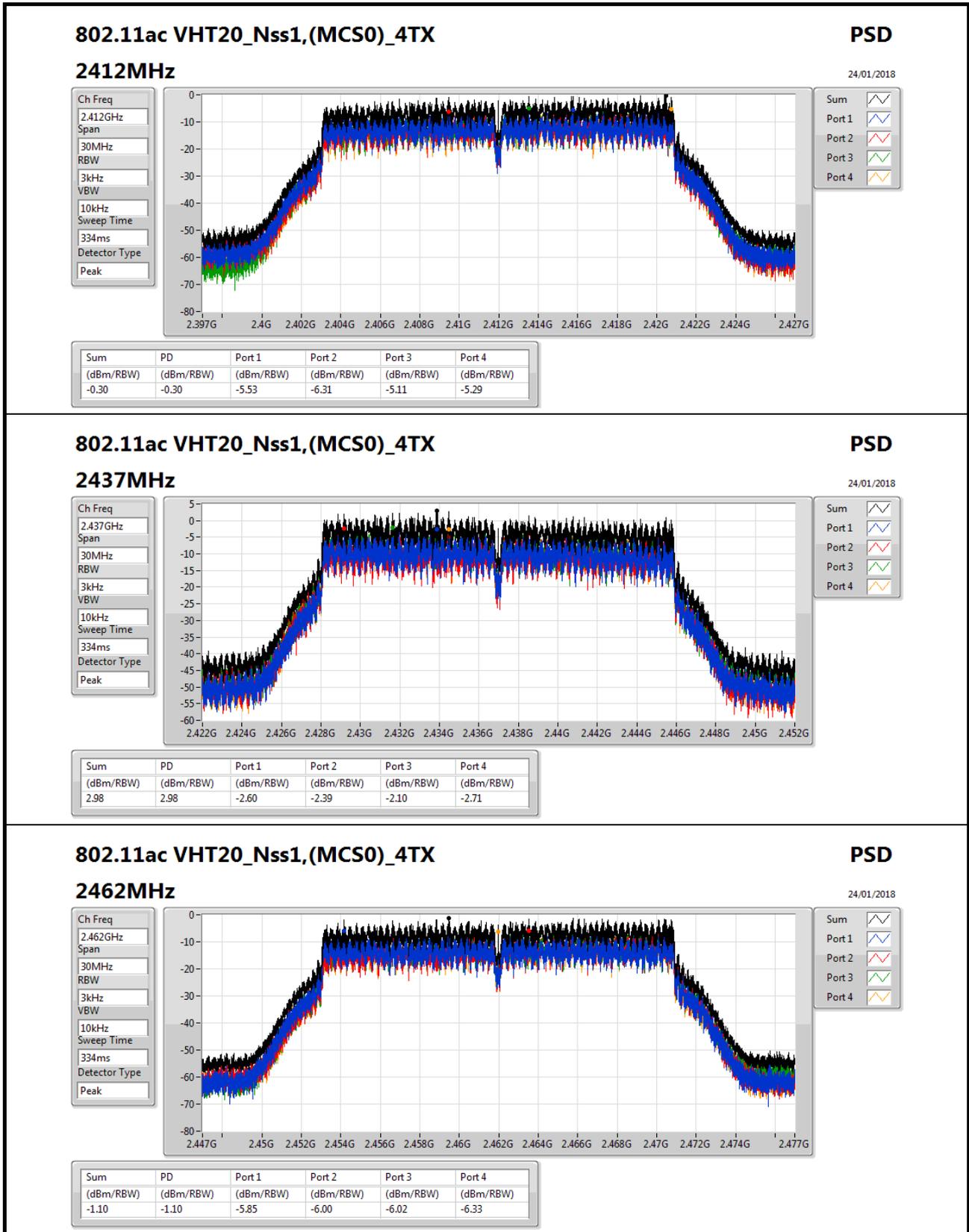
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.92	1.03	0.48	1.09	0.62	5.39	6.08
2437MHz	Pass	7.92	1.61	0.74	2.84	0.53	5.15	6.08
2462MHz	Pass	7.92	0.57	0.83	2.15	1.53	4.91	6.08
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.92	-4.83	-5.57	-5.25	-4.80	0.38	6.08
2437MHz	Pass	7.92	-1.22	-0.97	-0.96	-1.08	4.20	6.08
2462MHz	Pass	7.92	-6.17	-6.28	-5.46	-6.31	-1.37	6.08
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.92	-5.53	-6.31	-5.11	-5.29	-0.30	6.08
2437MHz	Pass	7.92	-2.60	-2.39	-2.10	-2.71	2.98	6.08
2462MHz	Pass	7.92	-5.85	-6.00	-6.02	-6.33	-1.10	6.08
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.92	-10.14	-8.97	-9.52	-9.71	-4.48	6.08
2437MHz	Pass	7.92	-8.70	-9.07	-7.88	-9.14	-3.65	6.08
2452MHz	Pass	7.92	-9.62	-10.84	-11.04	-10.83	-4.76	6.08
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.92	-5.86	-6.81	-6.42	-6.67	-0.70	6.08
2437MHz	Pass	7.92	-1.49	-1.39	-0.20	-3.51	4.18	6.08
2462MHz	Pass	7.92	-7.92	-7.53	-6.55	-7.13	-2.01	6.08
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.92	-10.82	-10.75	-11.74	-11.14	-5.95	6.08
2437MHz	Pass	7.92	-9.25	-11.20	-10.29	-10.10	-4.52	6.08
2452MHz	Pass	7.92	-10.71	-13.47	-13.25	-12.43	-7.16	6.08

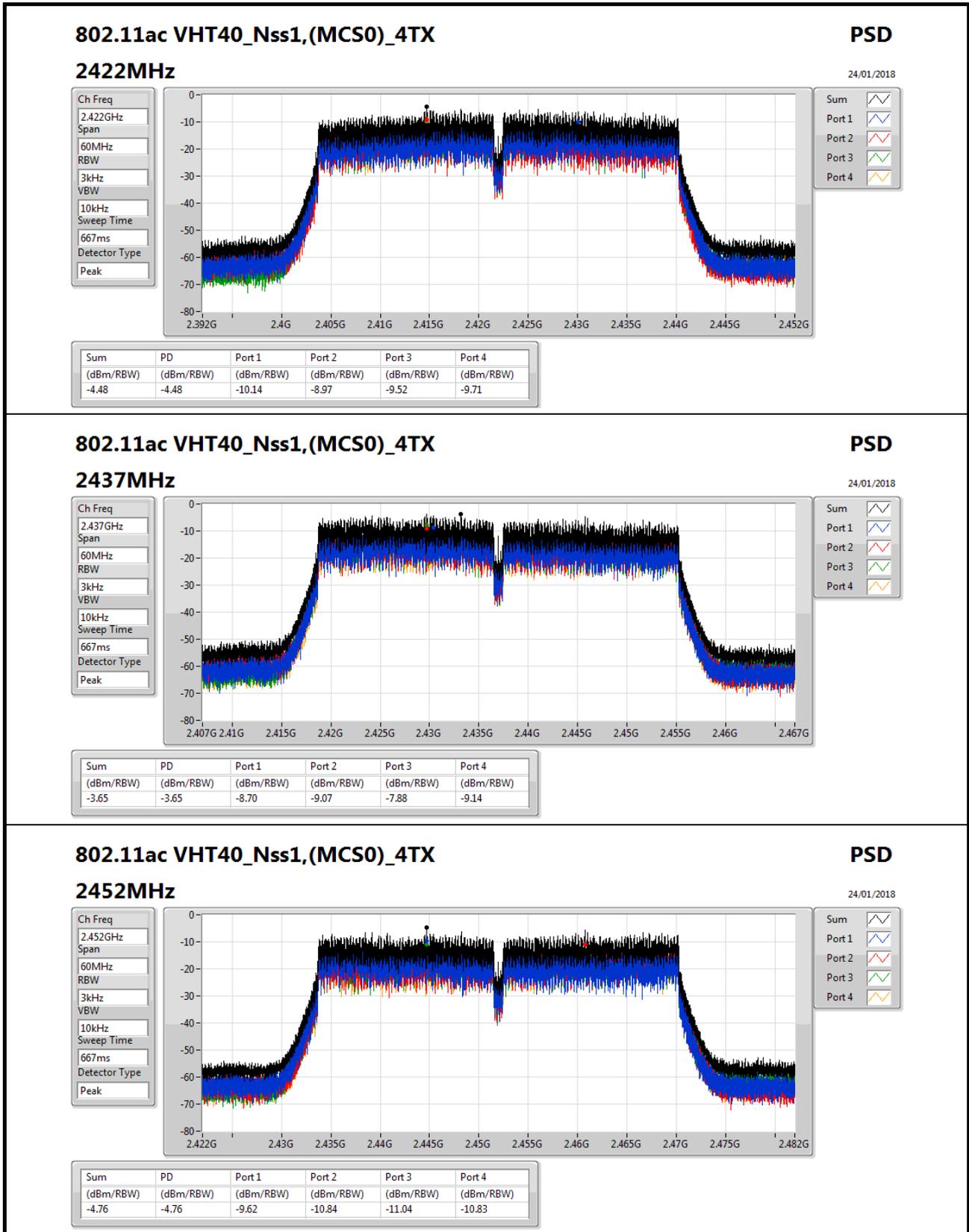
DG = Directional Gain; RBW=3kHz;

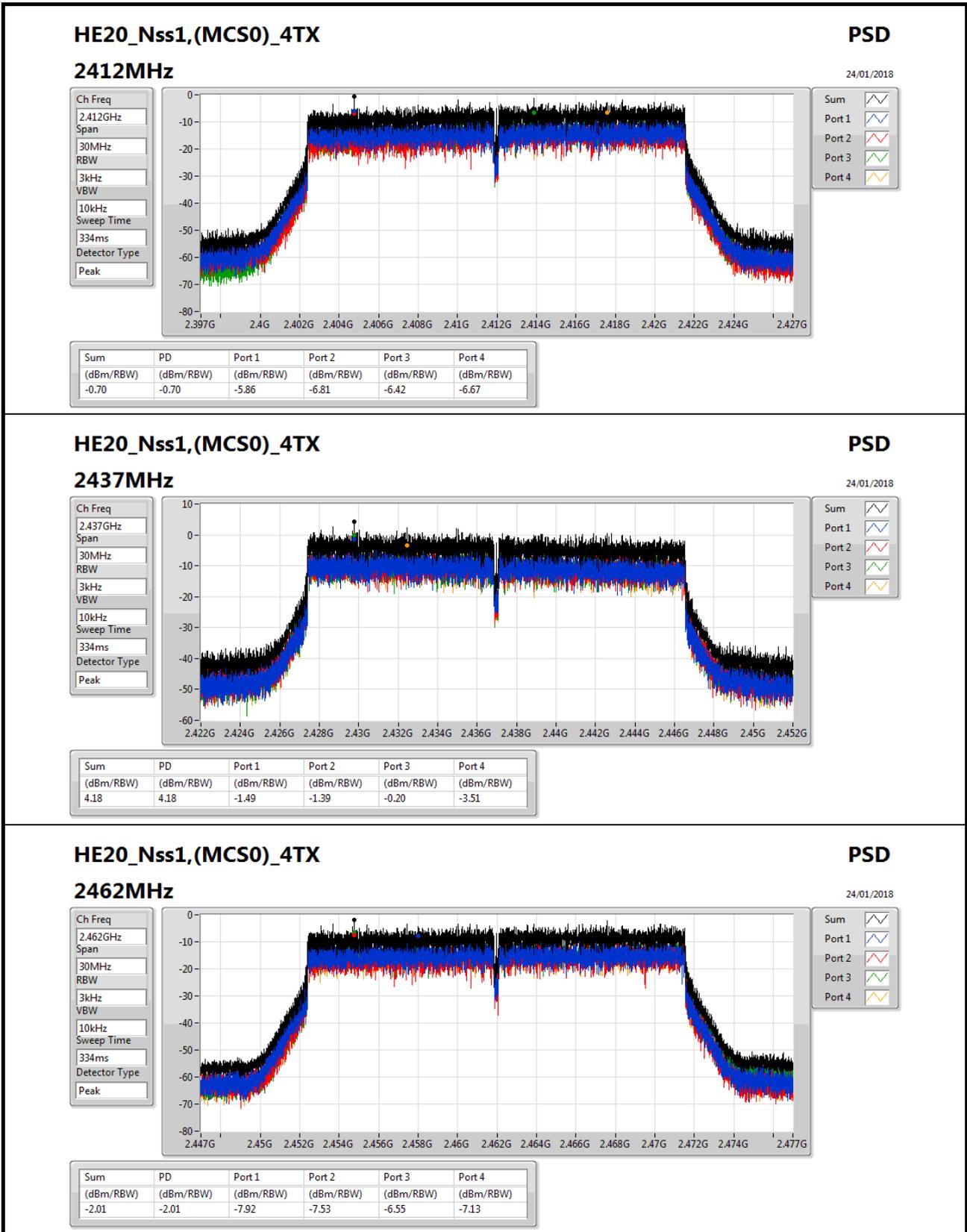
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

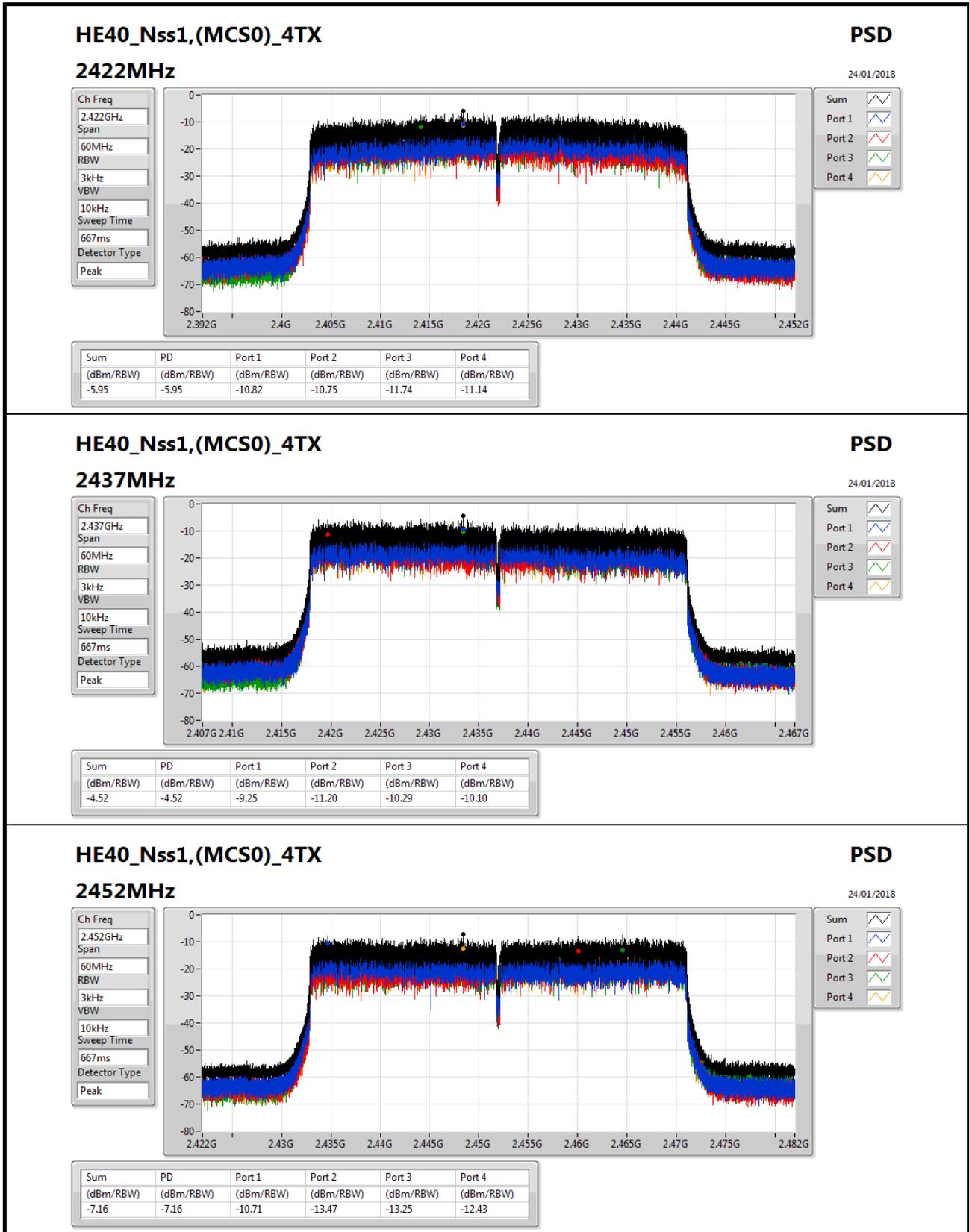














Summary

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)_4TX	Pass	2.435905G	15.11	-14.89	2.30408G	-57.39	2.398G	-42.03	2.48366G	-49.09	7.235136G	-48.75	2
802.11g_Nss1,(6Mbps)_4TX	Pass	2.430728G	12.84	-17.16	2.309905G	-57.56	2.39936G	-35.53	2.48518G	-49.87	6.948561G	-51.40	1
802.11ac_VHT20_Nss1,(MCS0)_4TX	Pass	2.431897G	11.35	-18.65	561.24M	-57.86	2.39992G	-35.77	2.4871G	-49.12	16.672457G	-49.89	1
802.11ac_VHT40_Nss1,(MCS0)_4TX	Pass	2.441917G	4.76	-25.24	484.565M	-58.05	2.39952G	-36.80	2.48366G	-47.64	16.339511G	-51.81	2
HE20_Nss1,(MCS0)_4TX	Pass	2.430728G	12.49	-17.51	528.62M	-57.20	2.39992G	-32.96	2.48518G	-51.99	16.391501G	-49.62	1
HE40_Nss1,(MCS0)_4TX	Pass	2.431897G	5.09	-24.91	515.48M	-58.14	2.39952G	-37.58	2.48622G	-48.98	16.748977G	-51.39	2

Result

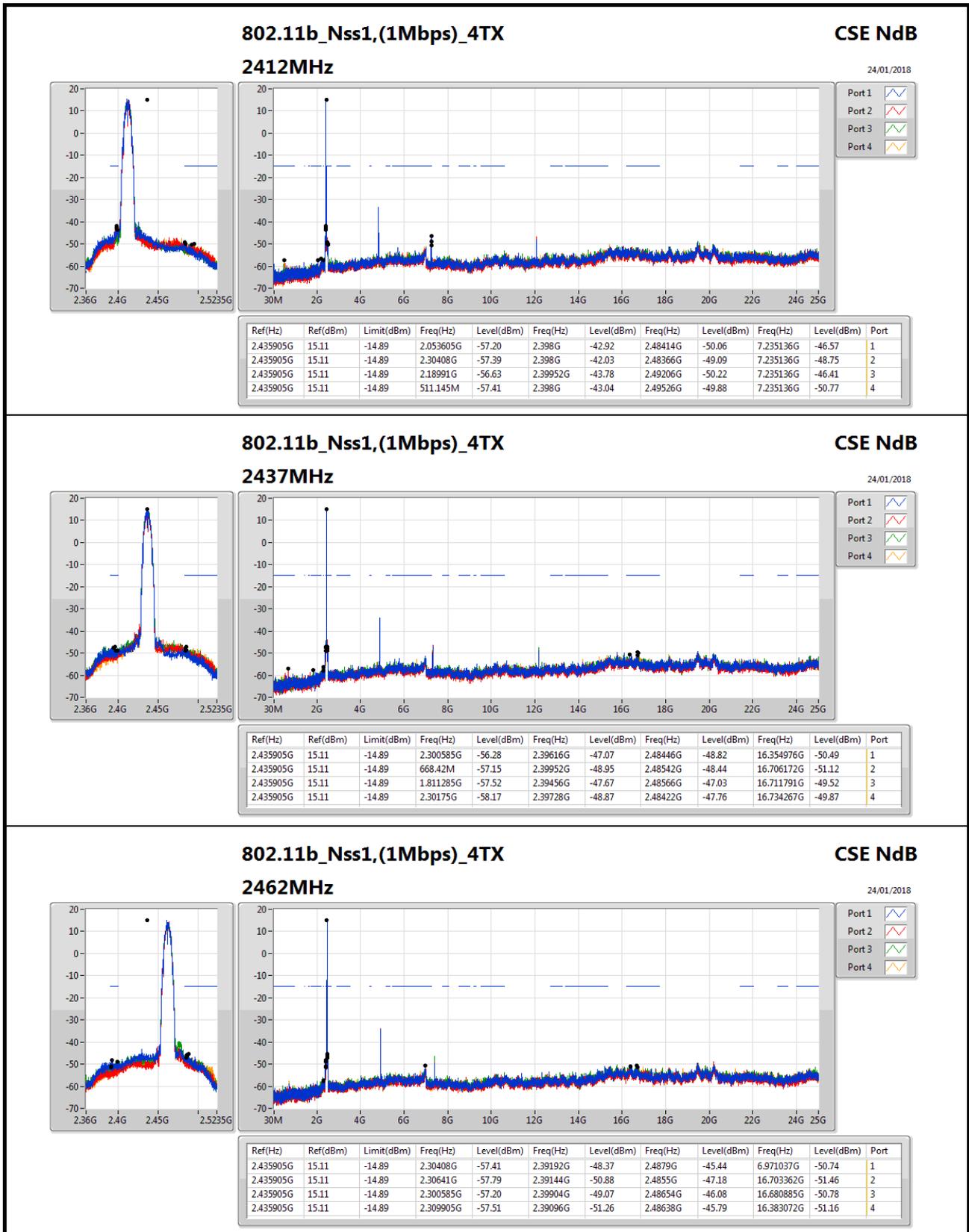
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435905G	15.11	-14.89	2.053605G	-57.20	2.398G	-42.92	2.48414G	-50.06	7.235136G	-46.57	1
2412MHz	Pass	2.435905G	15.11	-14.89	2.30408G	-57.39	2.398G	-42.03	2.48366G	-49.09	7.235136G	-48.75	2
2412MHz	Pass	2.435905G	15.11	-14.89	2.18991G	-56.63	2.39952G	-43.78	2.49206G	-50.22	7.235136G	-46.41	3
2412MHz	Pass	2.435905G	15.11	-14.89	511.145M	-57.41	2.398G	-43.04	2.49526G	-49.88	7.235136G	-50.77	4
2437MHz	Pass	2.435905G	15.11	-14.89	2.300585G	-56.28	2.39616G	-47.07	2.48446G	-48.82	16.354976G	-50.49	1
2437MHz	Pass	2.435905G	15.11	-14.89	668.42M	-57.15	2.39952G	-48.95	2.48542G	-48.44	16.706172G	-51.12	2
2437MHz	Pass	2.435905G	15.11	-14.89	1.811285G	-57.52	2.39456G	-47.67	2.48566G	-47.03	16.711791G	-49.52	3
2437MHz	Pass	2.435905G	15.11	-14.89	2.30175G	-58.17	2.39728G	-48.87	2.48422G	-47.76	16.734267G	-49.87	4
2462MHz	Pass	2.435905G	15.11	-14.89	2.30408G	-57.41	2.39192G	-48.37	2.4879G	-45.44	6.971037G	-50.74	1
2462MHz	Pass	2.435905G	15.11	-14.89	2.30641G	-57.79	2.39144G	-50.88	2.4855G	-47.18	16.703362G	-51.46	2
2462MHz	Pass	2.435905G	15.11	-14.89	2.300585G	-57.20	2.39904G	-49.07	2.48654G	-46.08	16.680885G	-50.78	3
2462MHz	Pass	2.435905G	15.11	-14.89	2.309905G	-57.51	2.39096G	-51.26	2.48638G	-45.79	16.383072G	-51.16	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.430728G	12.84	-17.16	2.309905G	-57.56	2.39936G	-35.53	2.48518G	-49.87	6.948561G	-51.40	1
2412MHz	Pass	2.430728G	12.84	-17.16	2.107195G	-58.52	2.3992G	-35.60	2.49038G	-50.23	16.71741G	-51.35	2
2412MHz	Pass	2.430728G	12.84	-17.16	521.63M	-56.39	2.39976G	-38.61	2.48382G	-50.20	16.703362G	-51.47	3
2412MHz	Pass	2.430728G	12.84	-17.16	2.17127G	-58.16	2.39952G	-36.62	2.48798G	-50.53	16.703362G	-49.43	4
2437MHz	Pass	2.430728G	12.84	-17.16	514.64M	-57.57	2.39824G	-46.64	2.48398G	-47.31	16.723029G	-49.41	1
2437MHz	Pass	2.430728G	12.84	-17.16	2.30874G	-58.47	2.3992G	-45.03	2.48614G	-46.73	16.700552G	-52.19	2
2437MHz	Pass	2.430728G	12.84	-17.16	2.18292G	-57.30	2.39768G	-46.13	2.48646G	-46.53	24.637566G	-50.64	3
2437MHz	Pass	2.430728G	12.84	-17.16	2.305245G	-57.36	2.39984G	-45.53	2.48646G	-47.38	16.706172G	-50.69	4
2462MHz	Pass	2.430728G	12.84	-17.16	2.181755G	-56.97	2.39168G	-50.11	2.48382G	-44.49	24.735901G	-51.27	1
2462MHz	Pass	2.430728G	12.84	-17.16	2.1969G	-58.77	2.39688G	-51.79	2.48422G	-44.49	16.399929G	-51.24	2
2462MHz	Pass	2.430728G	12.84	-17.16	515.805M	-58.01	2.39664G	-51.29	2.4847G	-44.42	16.391501G	-51.18	3
2462MHz	Pass	2.430728G	12.84	-17.16	2.039625G	-58.27	2.3988G	-52.51	2.48486G	-45.60	16.753934G	-51.03	4
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.431897G	11.35	-18.65	561.24M	-57.86	2.39992G	-35.77	2.4871G	-49.12	16.672457G	-49.89	1
2412MHz	Pass	2.431897G	11.35	-18.65	1.904485G	-58.63	2.39992G	-36.81	2.48358G	-51.84	16.388691G	-51.59	2
2412MHz	Pass	2.431897G	11.35	-18.65	1.8474G	-57.19	2.39992G	-39.64	2.48798G	-52.31	16.731458G	-50.35	3
2412MHz	Pass	2.431897G	11.35	-18.65	532.115M	-58.07	2.39984G	-37.85	2.48366G	-52.04	16.708981G	-48.92	4
2437MHz	Pass	2.431897G	11.35	-18.65	2.30175G	-58.04	2.39776G	-46.78	2.48686G	-47.35	16.678076G	-50.19	1
2437MHz	Pass	2.431897G	11.35	-18.65	520.465M	-57.94	2.39768G	-44.82	2.48638G	-46.48	16.71741G	-50.13	2
2437MHz	Pass	2.431897G	11.35	-18.65	526.29M	-56.16	2.39728G	-45.61	2.48798G	-46.51	16.751125G	-50.30	3
2437MHz	Pass	2.431897G	11.35	-18.65	2.191075G	-57.50	2.39608G	-48.44	2.48502G	-46.51	16.706172G	-50.87	4
2462MHz	Pass	2.431897G	11.35	-18.65	2.30874G	-58.55	2.39376G	-49.76	2.48486G	-45.11	16.413977G	-50.85	1
2462MHz	Pass	2.431897G	11.35	-18.65	539.105M	-57.96	2.39728G	-50.60	2.48446G	-45.05	16.7146G	-51.67	2

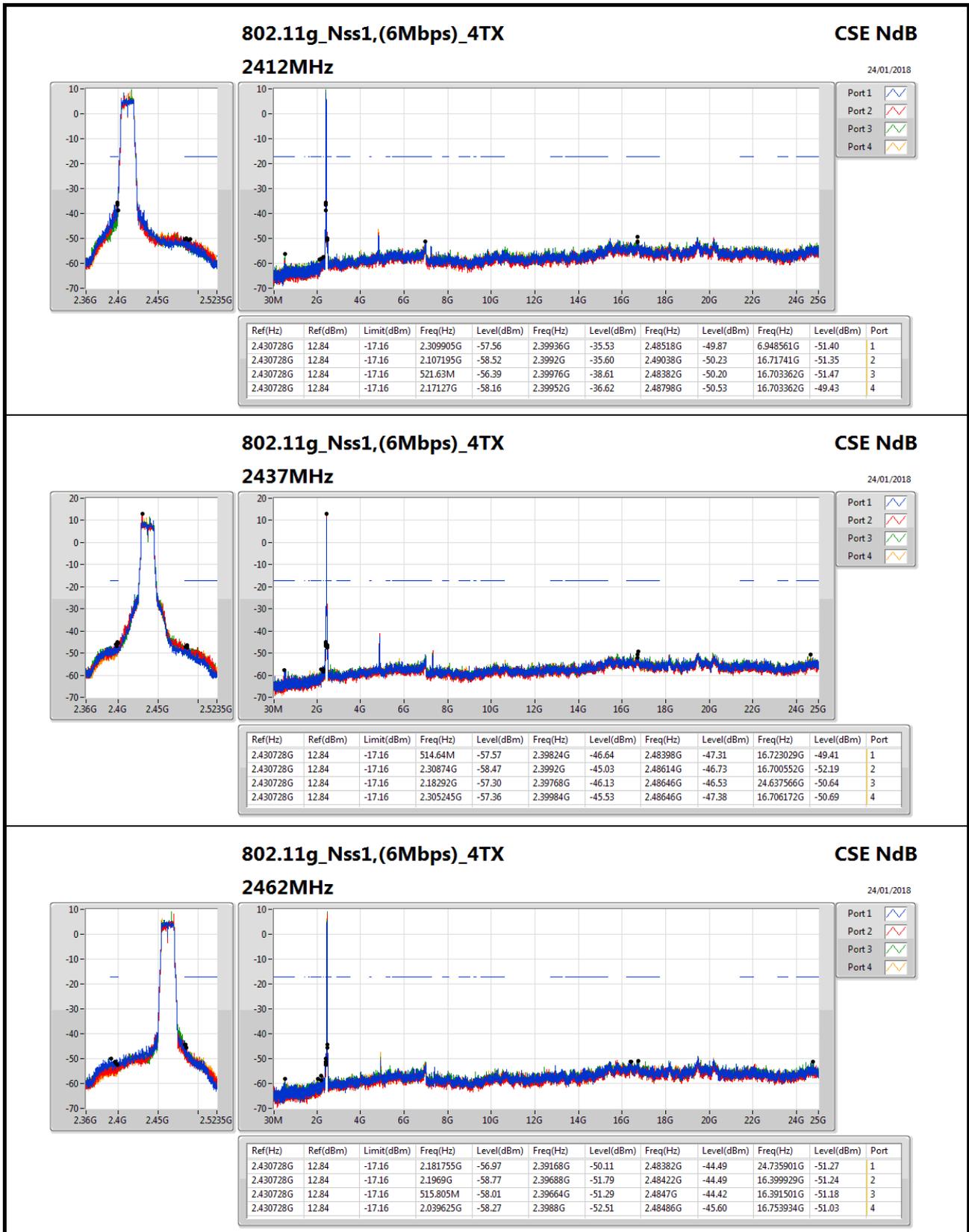


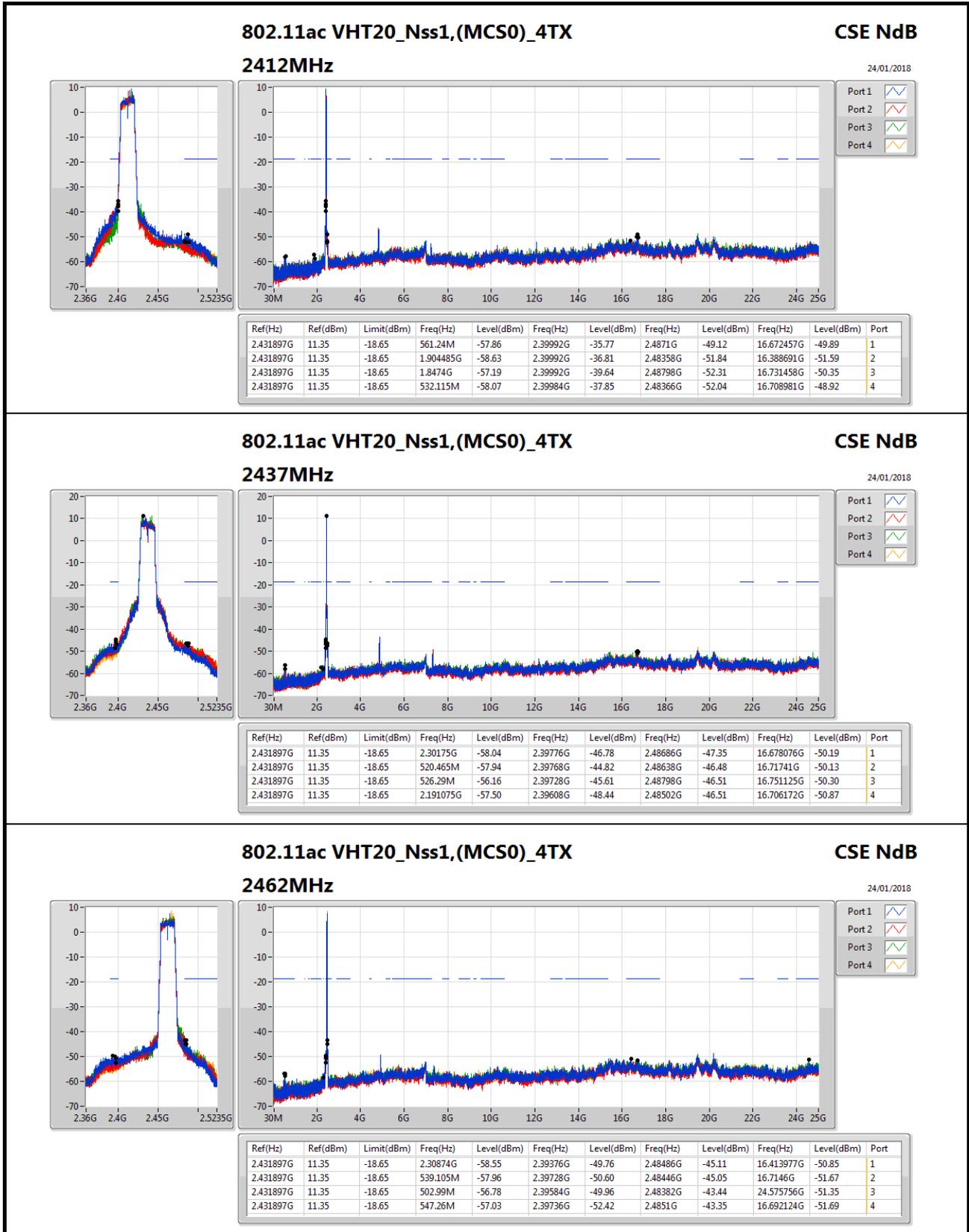
CSE Non-restricted Band Result

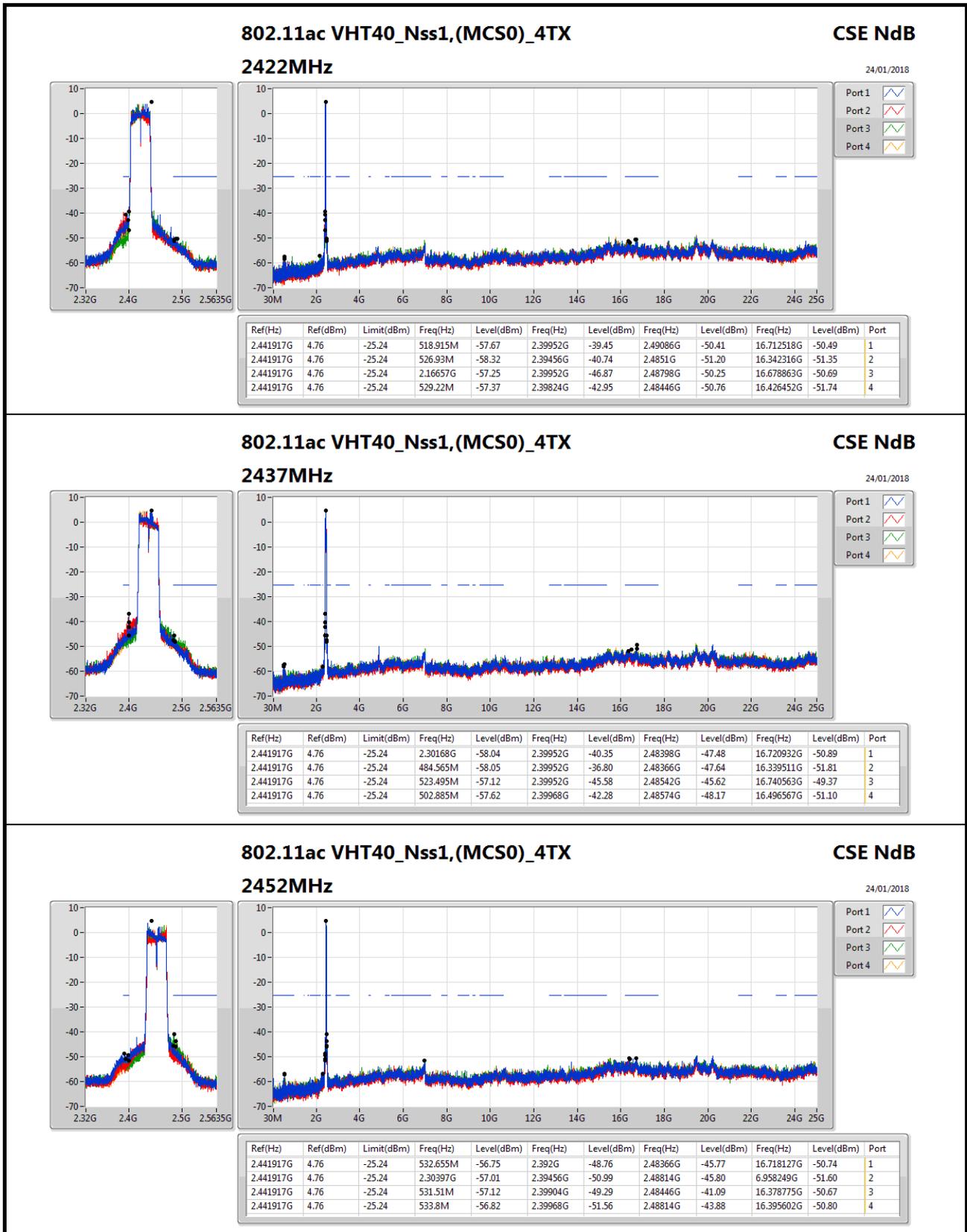
Appendix E

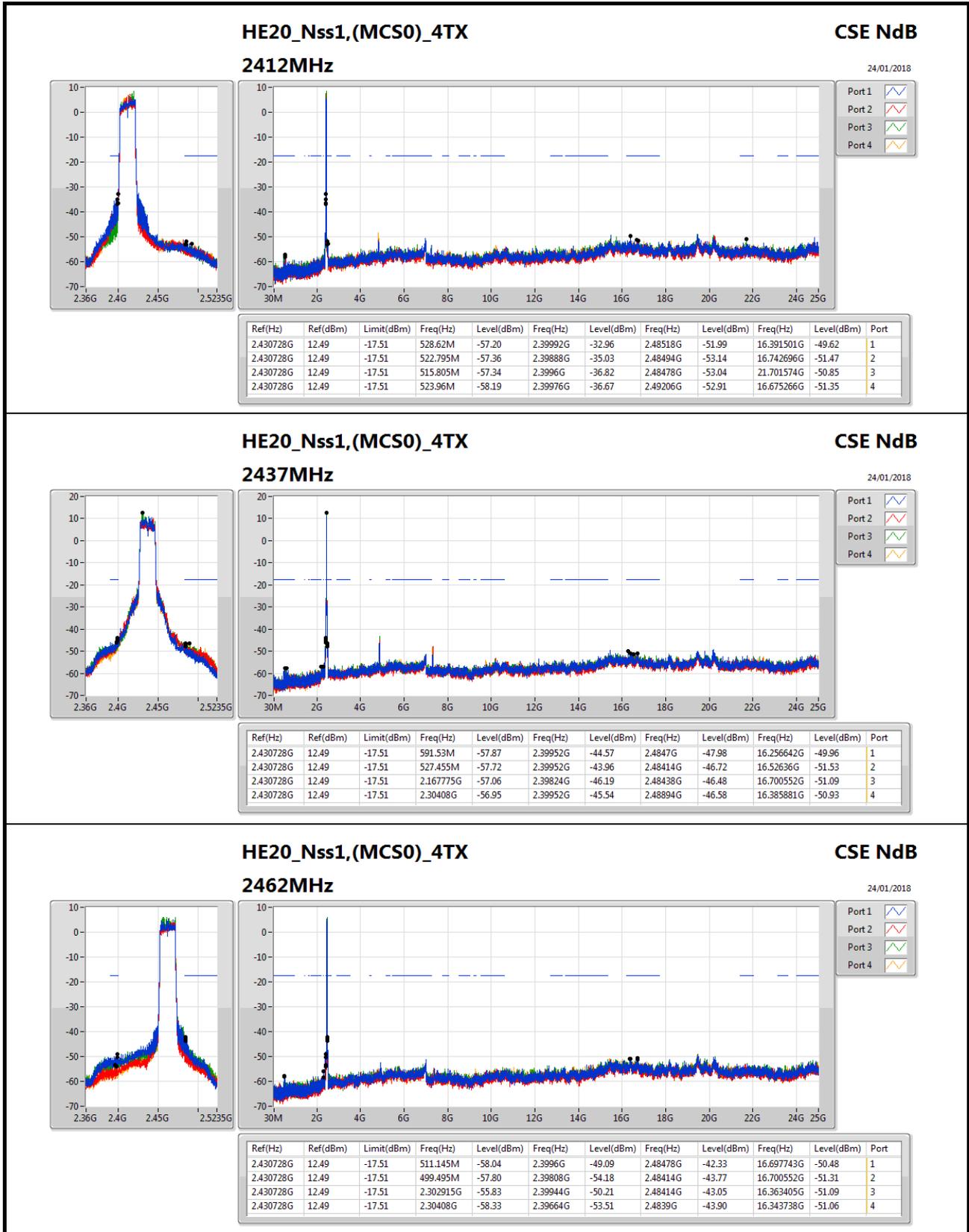
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2462MHz	Pass	2.431897G	11.35	-18.65	502.99M	-56.78	2.39584G	-49.96	2.48382G	-43.44	24.575756G	-51.35	3
2462MHz	Pass	2.431897G	11.35	-18.65	547.26M	-57.03	2.39736G	-52.42	2.4851G	-43.35	16.692124G	-51.69	4
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.441917G	4.76	-25.24	518.915M	-57.67	2.39952G	-39.45	2.49086G	-50.41	16.712518G	-50.49	1
2422MHz	Pass	2.441917G	4.76	-25.24	526.93M	-58.32	2.39456G	-40.74	2.4851G	-51.20	16.342316G	-51.35	2
2422MHz	Pass	2.441917G	4.76	-25.24	2.16657G	-57.25	2.39952G	-46.87	2.48798G	-50.25	16.678863G	-50.69	3
2422MHz	Pass	2.441917G	4.76	-25.24	529.22M	-57.37	2.39824G	-42.95	2.48446G	-50.76	16.426452G	-51.74	4
2437MHz	Pass	2.441917G	4.76	-25.24	2.30168G	-58.04	2.39952G	-40.35	2.48398G	-47.48	16.720932G	-50.89	1
2437MHz	Pass	2.441917G	4.76	-25.24	484.565M	-58.05	2.39952G	-36.80	2.48366G	-47.64	16.339511G	-51.81	2
2437MHz	Pass	2.441917G	4.76	-25.24	523.495M	-57.12	2.39952G	-45.58	2.48542G	-45.62	16.740563G	-49.37	3
2437MHz	Pass	2.441917G	4.76	-25.24	502.885M	-57.62	2.39968G	-42.28	2.48574G	-48.17	16.496567G	-51.10	4
2452MHz	Pass	2.441917G	4.76	-25.24	532.655M	-56.75	2.392G	-48.76	2.48366G	-45.77	16.718127G	-50.74	1
2452MHz	Pass	2.441917G	4.76	-25.24	2.30397G	-57.01	2.39456G	-50.99	2.48814G	-45.80	6.958249G	-51.60	2
2452MHz	Pass	2.441917G	4.76	-25.24	531.51M	-57.12	2.39904G	-49.29	2.48446G	-41.09	16.378775G	-50.67	3
2452MHz	Pass	2.441917G	4.76	-25.24	533.8M	-56.82	2.39968G	-51.56	2.48814G	-43.88	16.395602G	-50.80	4
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.430728G	12.49	-17.51	528.62M	-57.20	2.39992G	-32.96	2.48518G	-51.99	16.391501G	-49.62	1
2412MHz	Pass	2.430728G	12.49	-17.51	522.795M	-57.36	2.39888G	-35.03	2.48494G	-53.14	16.742696G	-51.47	2
2412MHz	Pass	2.430728G	12.49	-17.51	515.805M	-57.34	2.3996G	-36.82	2.48478G	-53.04	21.701574G	-50.85	3
2412MHz	Pass	2.430728G	12.49	-17.51	523.96M	-58.19	2.39976G	-36.67	2.49206G	-52.91	16.675266G	-51.35	4
2437MHz	Pass	2.430728G	12.49	-17.51	591.53M	-57.87	2.39952G	-44.57	2.4847G	-47.98	16.256642G	-49.96	1
2437MHz	Pass	2.430728G	12.49	-17.51	527.455M	-57.72	2.39952G	-43.96	2.48414G	-46.72	16.52636G	-51.53	2
2437MHz	Pass	2.430728G	12.49	-17.51	2.167775G	-57.06	2.39824G	-46.19	2.48438G	-46.48	16.700552G	-51.09	3
2437MHz	Pass	2.430728G	12.49	-17.51	2.30408G	-56.95	2.39952G	-45.54	2.48894G	-46.58	16.385881G	-50.93	4
2462MHz	Pass	2.430728G	12.49	-17.51	511.145M	-58.04	2.3996G	-49.09	2.48478G	-42.33	16.697743G	-50.48	1
2462MHz	Pass	2.430728G	12.49	-17.51	499.495M	-57.80	2.39808G	-54.18	2.48414G	-43.77	16.700552G	-51.31	2
2462MHz	Pass	2.430728G	12.49	-17.51	2.302915G	-55.83	2.39944G	-50.21	2.48414G	-43.05	16.363405G	-51.09	3
2462MHz	Pass	2.430728G	12.49	-17.51	2.30408G	-58.33	2.39664G	-53.51	2.4839G	-43.90	16.343738G	-51.06	4
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.431897G	5.09	-24.91	523.495M	-57.01	2.39712G	-41.43	2.4843G	-50.73	16.726541G	-50.68	1
2422MHz	Pass	2.431897G	5.09	-24.91	586.47M	-58.49	2.3976G	-41.23	2.48542G	-51.66	16.454498G	-51.32	2
2422MHz	Pass	2.431897G	5.09	-24.91	2.00856G	-56.41	2.39968G	-48.48	2.48574G	-51.44	16.709713G	-50.22	3
2422MHz	Pass	2.431897G	5.09	-24.91	540.67M	-57.41	2.39696G	-44.27	2.49118G	-51.36	16.392798G	-51.40	4
2437MHz	Pass	2.431897G	5.09	-24.91	508.61M	-57.05	2.39968G	-41.76	2.4875G	-47.58	16.303052G	-51.46	1
2437MHz	Pass	2.431897G	5.09	-24.91	515.48M	-58.14	2.39952G	-37.58	2.48622G	-48.98	16.748977G	-51.39	2
2437MHz	Pass	2.431897G	5.09	-24.91	500.595M	-56.78	2.3976G	-47.91	2.48494G	-47.20	16.73215G	-50.86	3
2437MHz	Pass	2.431897G	5.09	-24.91	2.176875G	-57.34	2.3984G	-45.25	2.48926G	-48.66	16.359143G	-51.32	4
2452MHz	Pass	2.431897G	5.09	-24.91	2.179165G	-57.81	2.39968G	-48.45	2.4843G	-46.23	15.3495G	-50.37	1
2452MHz	Pass	2.431897G	5.09	-24.91	1.86429G	-58.26	2.39968G	-51.56	2.48814G	-46.95	16.423648G	-50.85	2
2452MHz	Pass	2.431897G	5.09	-24.91	522.35M	-58.03	2.39728G	-51.23	2.48942G	-41.52	16.378775G	-51.16	3
2452MHz	Pass	2.431897G	5.09	-24.91	541.815M	-57.00	2.39984G	-51.92	2.4843G	-45.96	6.944227G	-51.32	4

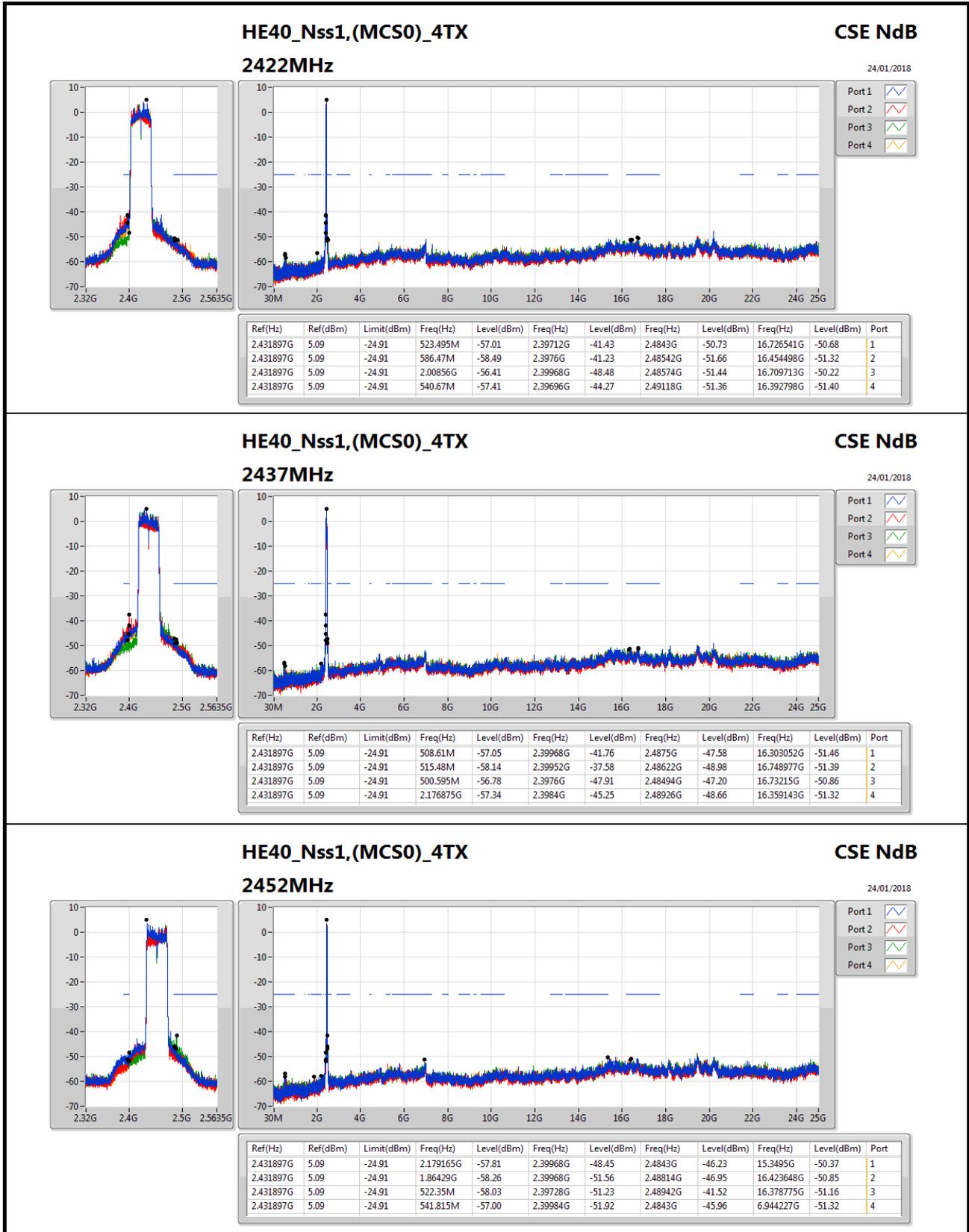








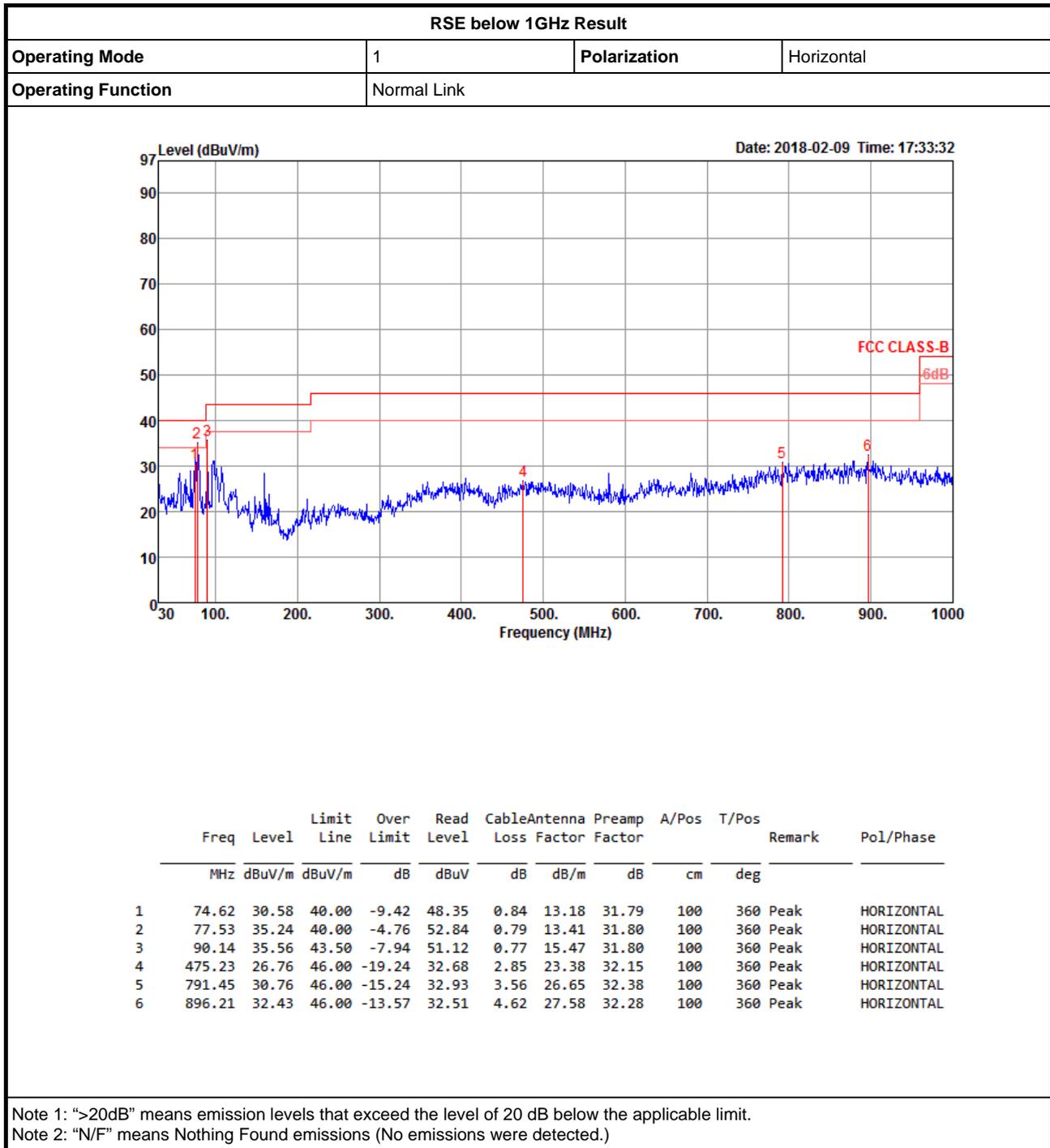






RSE below 1GHz Result

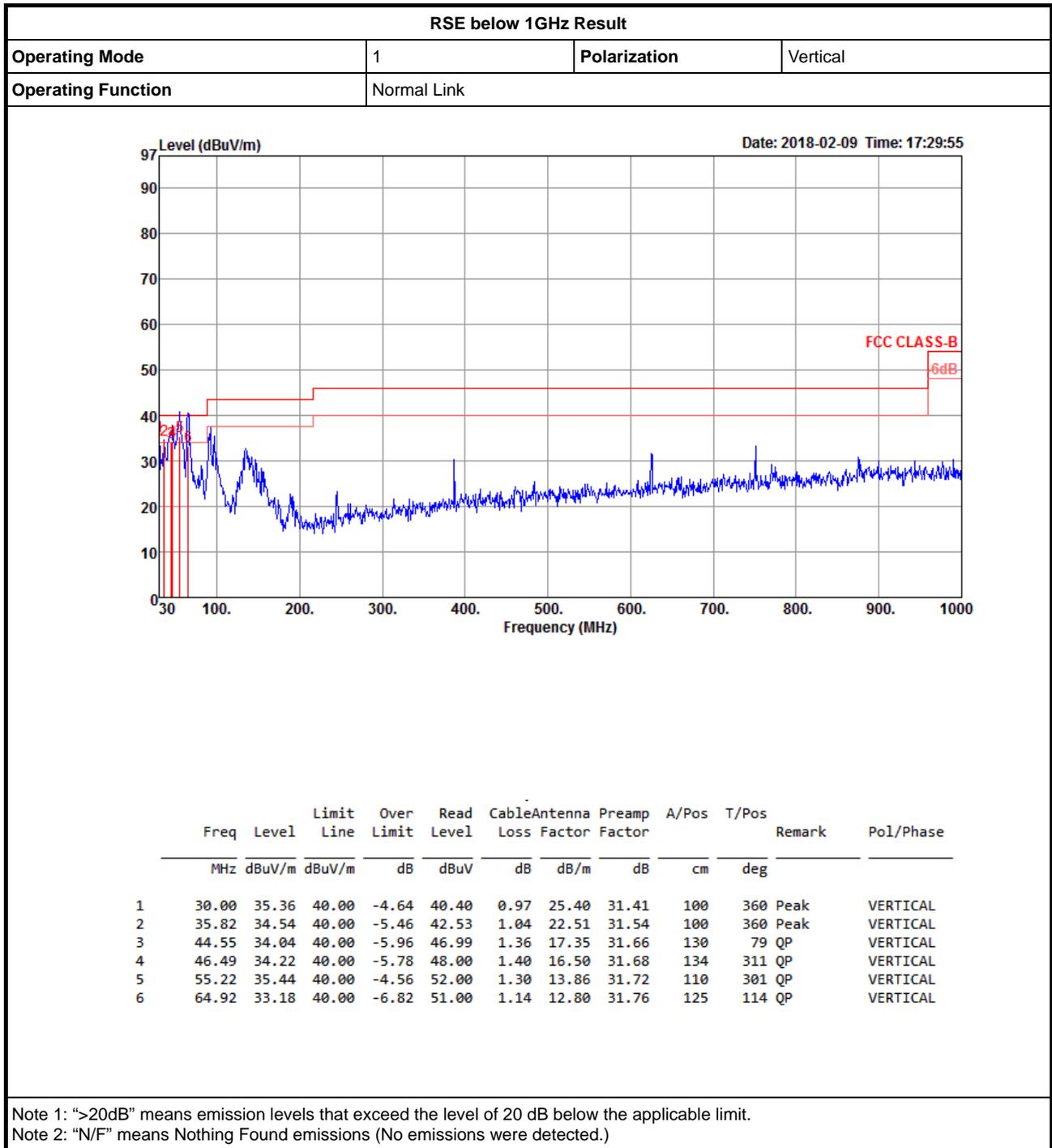
Appendix F.1





RSE below 1GHz Result

Appendix F.1





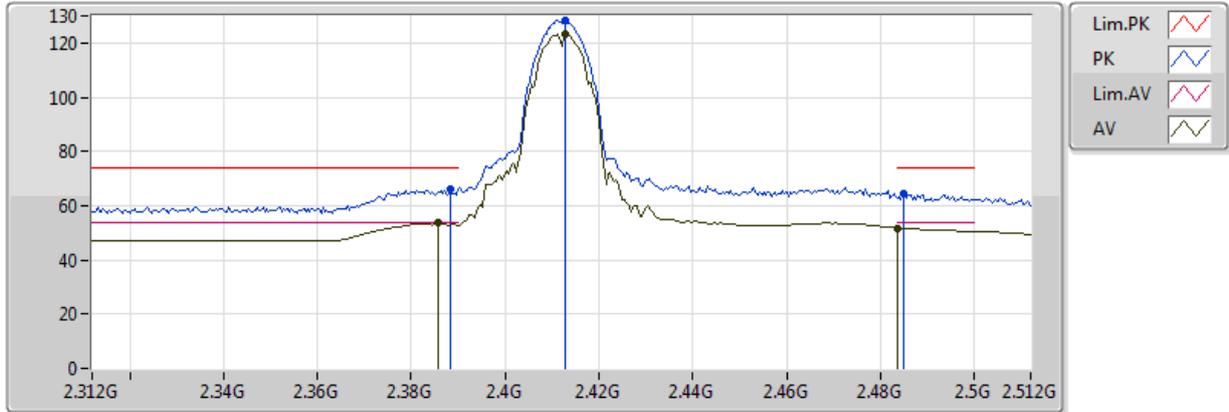
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	AV	2.389998G	53.99	54.00	-0.01	33.16	3	Vertical	340	1.72	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

22/01/2018



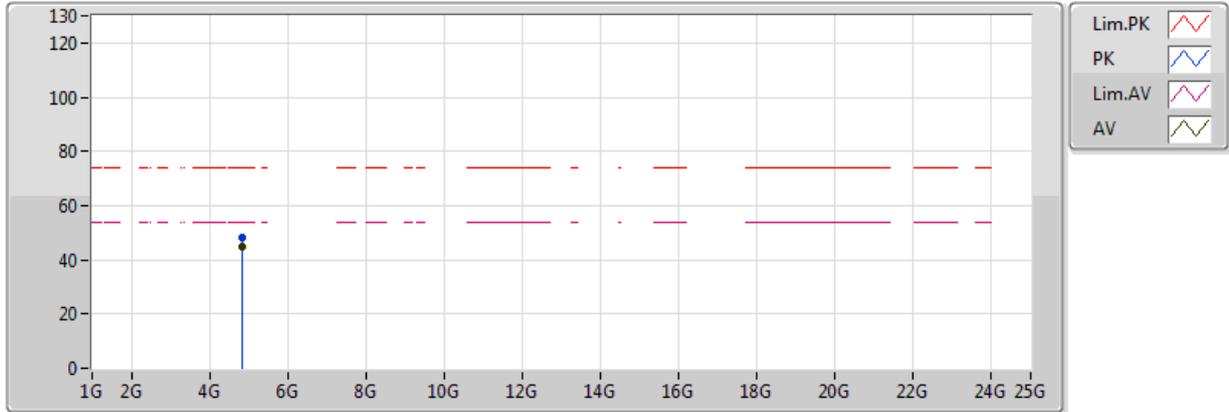
20180122
EUT_Z_4TX TX_Dipole
Setting 98
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3856G	53.75	54.00	-0.25	32.13	3	Vertical	332	1.63
AV	2.4128G	123.55	Inf	-Inf	32.21	3	Vertical	332	1.63
AV	2.4836G	51.70	54.00	-2.30	32.45	3	Vertical	332	1.63
PK	2.3884G	66.35	74.00	-7.65	32.14	3	Vertical	332	1.63
PK	2.4128G	128.29	Inf	-Inf	32.21	3	Vertical	332	1.63
PK	2.4848G	64.24	74.00	-9.76	32.45	3	Vertical	332	1.63

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

22/01/2018



20180122
EUT_Z_4TX TX_Dipole
Setting 98
02-R-5
FSU

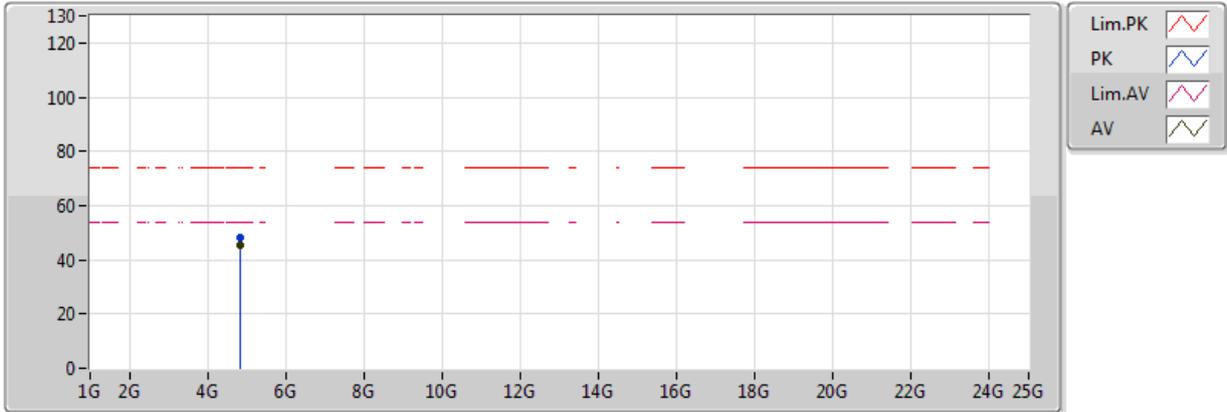
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.83388G	44.73	54.00	-9.27	9.21	3	Vertical	304	1.01
PK	4.824G	48.21	74.00	-25.79	9.19	3	Vertical	304	1.01



802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

22/01/2018



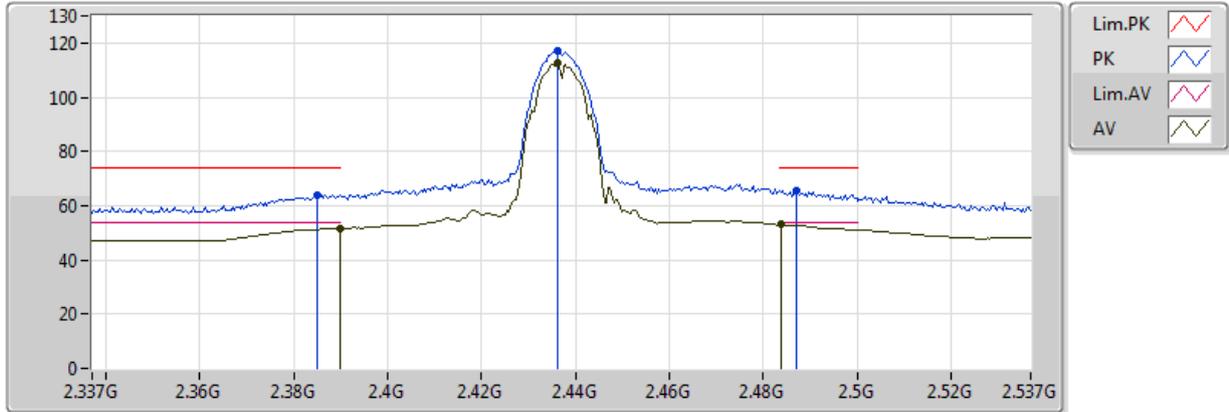
20180122
 EUT_Z_4TX TX_Dipole
 Setting 98
 02-R-5
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.834G	45.11	54.00	-8.89	9.21	3	Horizontal	224	1.33
PK	4.82356G	48.09	74.00	-25.91	9.19	3	Horizontal	224	1.33

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

22/01/2018



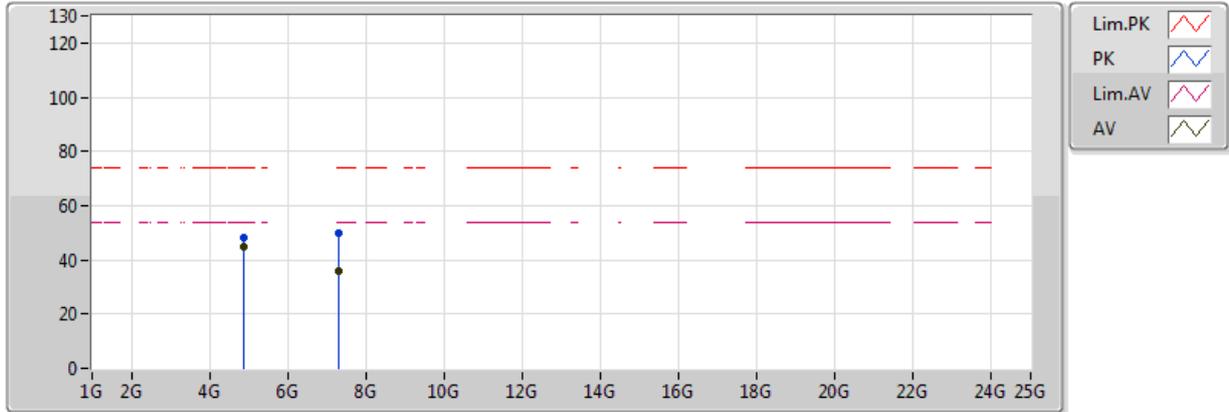
20180122
EUT_Z_4TX TX_Dipole
Setting 100
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	51.65	54.00	-2.35	32.14	3	Vertical	266	1.50
AV	2.4362G	112.54	Inf	-Inf	32.29	3	Vertical	266	1.50
AV	2.4838G	53.01	54.00	-0.99	32.45	3	Vertical	266	1.50
PK	2.385G	63.95	74.00	-10.05	32.12	3	Vertical	266	1.50
PK	2.4362G	117.11	Inf	-Inf	32.29	3	Vertical	266	1.50
PK	2.487G	65.65	74.00	-8.35	32.46	3	Vertical	266	1.50

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

22/01/2018



20180122
 EUT_Z_4TX TX_Dipole
 Setting 100
 02-R-5
 FSU

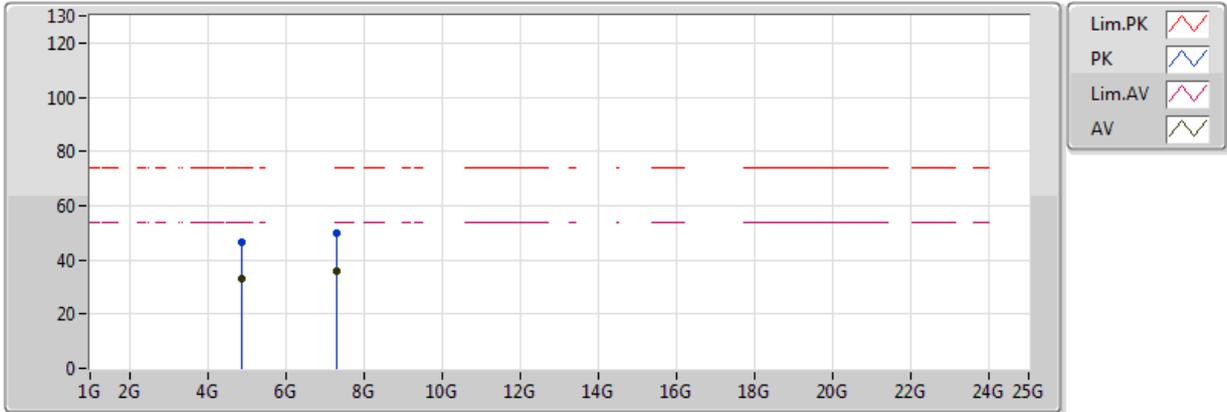
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.88708G	44.98	54.00	-9.02	9.31	3	Vertical	5	1.50
AV	7.31244G	36.05	54.00	-17.95	11.87	3	Vertical	240	2.45
PK	4.87394G	48.07	74.00	-25.93	9.29	3	Vertical	5	1.50
PK	7.31268G	49.98	74.00	-24.02	11.87	3	Vertical	240	2.45



802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

22/01/2018



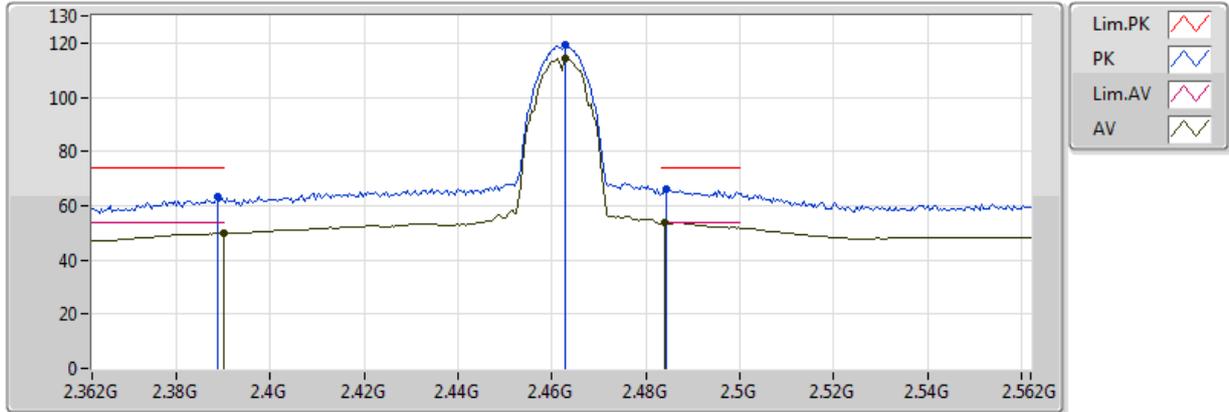
20180122
 EUT_Z_4TX TX_Dipole
 Setting 100
 02-R-5
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87408G	33.21	54.00	-20.79	9.29	3	Horizontal	316	1.20
AV	7.31964G	35.87	54.00	-18.13	11.88	3	Horizontal	61	1.96
PK	4.87652G	46.64	74.00	-27.36	9.29	3	Horizontal	316	1.20
PK	7.31404G	49.73	74.00	-24.27	11.87	3	Horizontal	61	1.96

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

22/01/2018



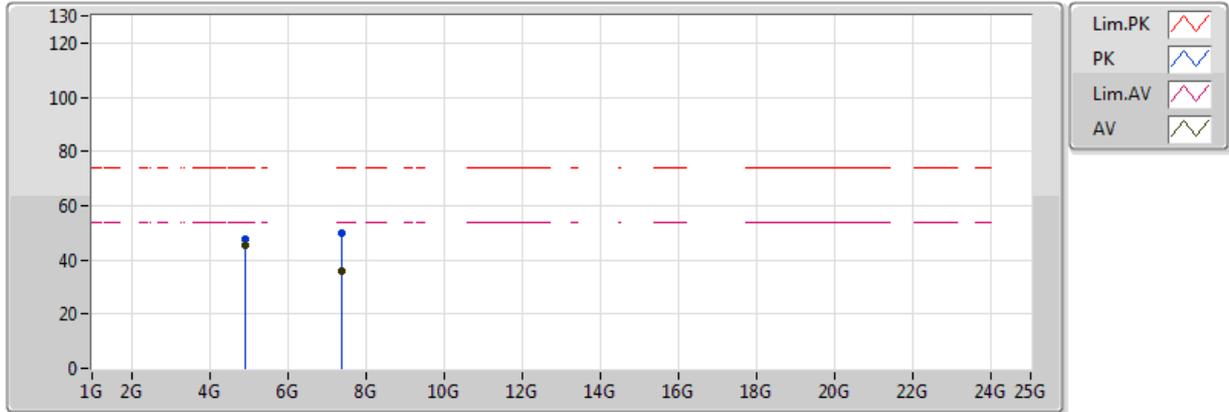
20180122
EUT_Z_4TX TX_Dipole
Setting 92
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	49.67	54.00	-4.33	32.14	3	Vertical	247	1.50
AV	2.4628G	114.53	Inf	-Inf	32.38	3	Vertical	247	1.50
AV	2.484G	53.91	54.00	-0.09	32.45	3	Vertical	247	1.50
PK	2.3888G	63.10	74.00	-10.90	32.14	3	Vertical	247	1.50
PK	2.4628G	119.25	Inf	-Inf	32.38	3	Vertical	247	1.50
PK	2.4844G	66.09	74.00	-7.91	32.45	3	Vertical	247	1.50

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

22/01/2018



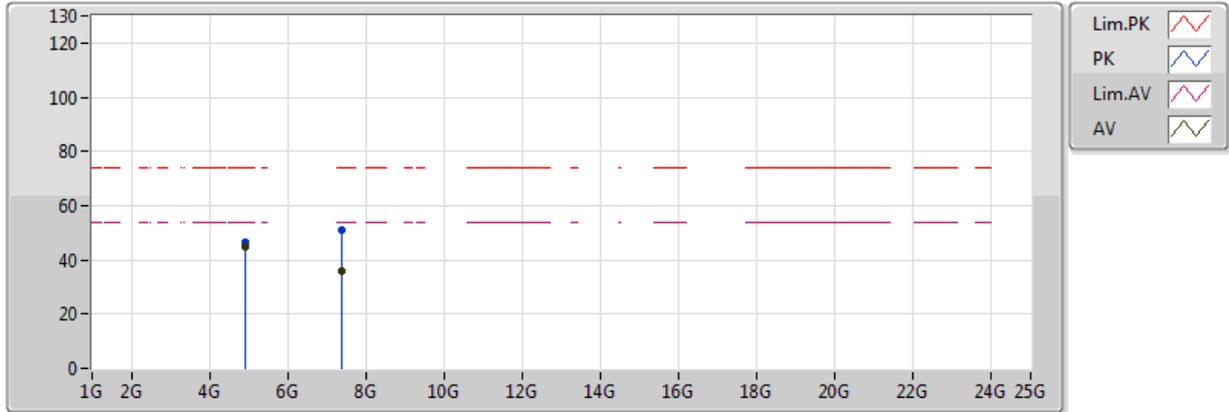
20180122
EUT_Z_4TX TX_Dipole
Setting 92
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.93388G	45.57	54.00	-8.43	9.40	3	Vertical	359	1.67
AV	7.39244G	35.96	54.00	-18.04	11.94	3	Vertical	119	2.00
PK	4.92396G	47.35	74.00	-26.65	9.38	3	Vertical	359	1.67
PK	7.38444G	49.99	74.00	-24.01	11.94	3	Vertical	119	2.00

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

22/01/2018



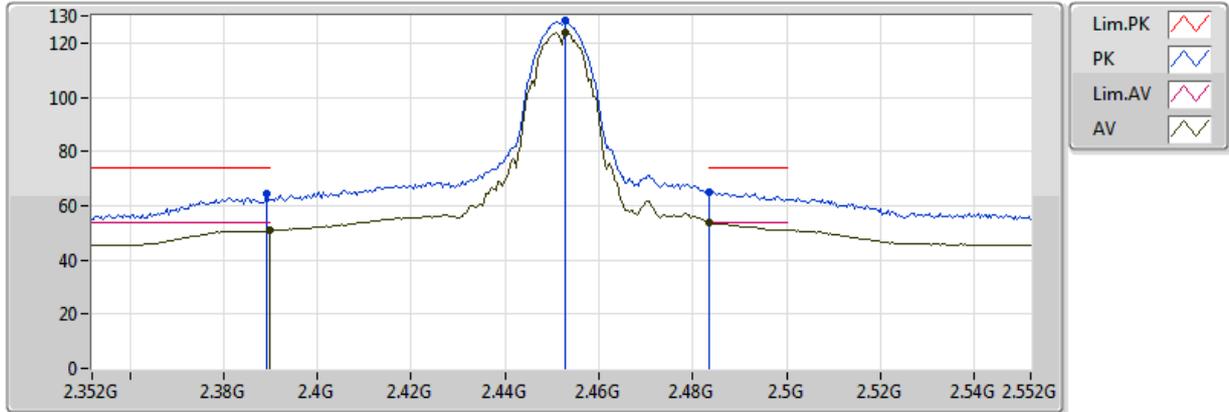
20180122
EUT_Z_4TX TX_Dipole
Setting 92
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.9328G	44.88	54.00	-9.12	9.40	3	Horizontal	166	1.50
AV	7.3864G	35.91	54.00	-18.09	11.94	3	Horizontal	131	2.36
PK	4.93064G	46.39	74.00	-27.61	9.40	3	Horizontal	166	1.50
PK	7.38772G	50.72	74.00	-23.28	11.94	3	Horizontal	131	2.36

802.11b_Nss1,(1Mbps)_4TX

2452MHz_TX

23/01/2018



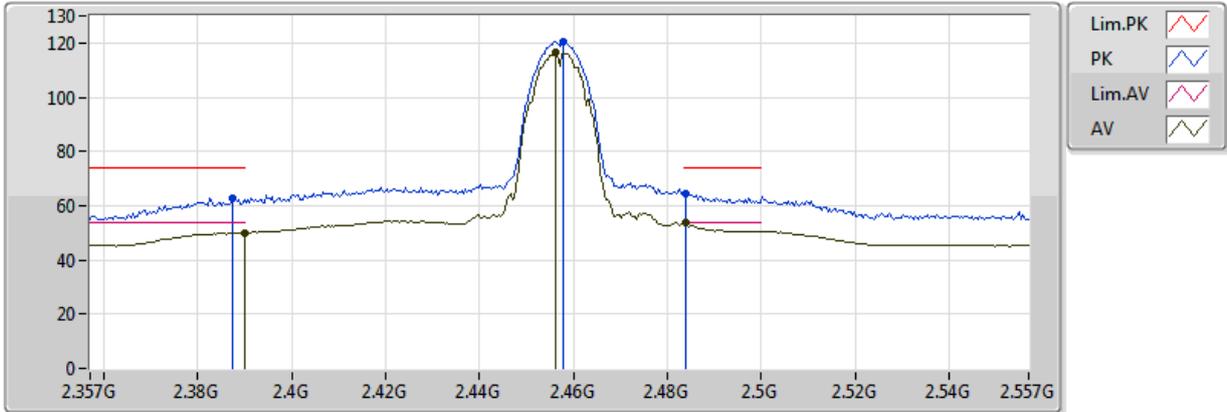
20180123
EUT_Z_4TX TX_Dipole
Setting 98
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	50.77	54.00	-3.23	33.16	3	Vertical	337	1.41
AV	2.4528G	123.95	Inf	-Inf	33.18	3	Vertical	337	1.41
AV	2.4836G	53.81	54.00	-0.19	33.19	3	Vertical	337	1.41
PK	2.3892G	64.22	74.00	-9.78	33.16	3	Vertical	337	1.41
PK	2.4528G	128.08	Inf	-Inf	33.18	3	Vertical	337	1.41
PK	2.4836G	65.12	74.00	-8.88	33.19	3	Vertical	337	1.41

802.11b_Nss1,(1Mbps)_4TX

2457MHz_TX

23/01/2018



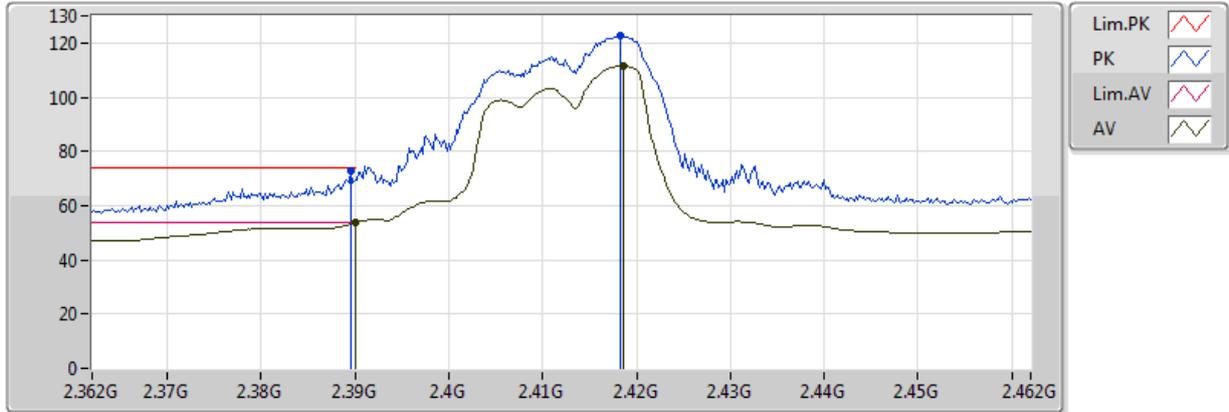
20180123
EUT_Z_4TX TX_Dipole
Setting 95
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	49.88	54.00	-4.12	33.16	3	Vertical	276	2.52
AV	2.4562G	116.59	Inf	-Inf	33.18	3	Vertical	276	2.52
AV	2.4838G	53.82	54.00	-0.18	33.19	3	Vertical	276	2.52
PK	2.3874G	62.66	74.00	-11.34	33.16	3	Vertical	276	2.52
PK	2.4578G	120.51	Inf	-Inf	33.18	3	Vertical	276	2.52
PK	2.4838G	64.63	74.00	-9.37	33.19	3	Vertical	276	2.52

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

22/01/2018



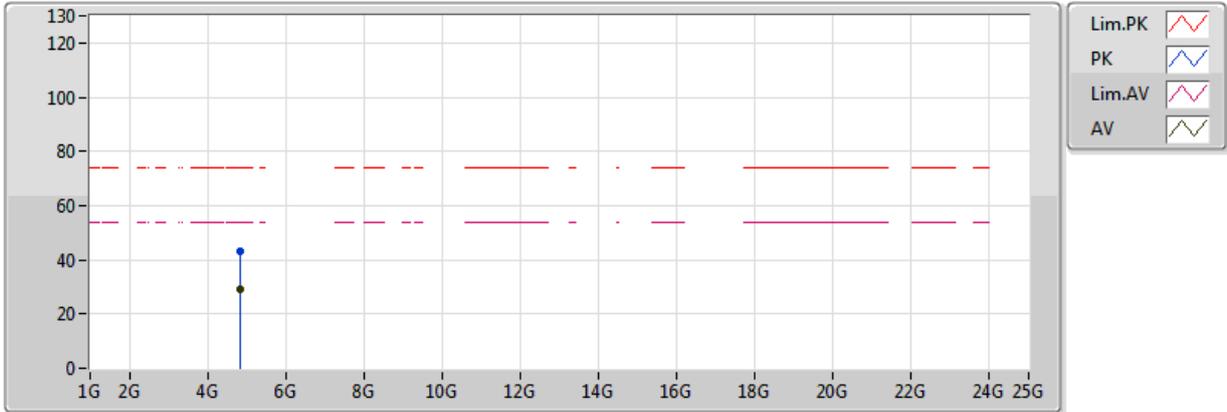
20180122
EUT_Z_4TX TX_Dipole
Setting 84
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	53.70	54.00	-0.30	32.14	3	Vertical	252	1.46
AV	2.4186G	111.50	Inf	-Inf	32.23	3	Vertical	252	1.46
PK	2.3896G	72.74	74.00	-1.26	32.14	3	Vertical	252	1.46
PK	2.4182G	122.58	Inf	-Inf	32.23	3	Vertical	252	1.46

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

23/01/2018



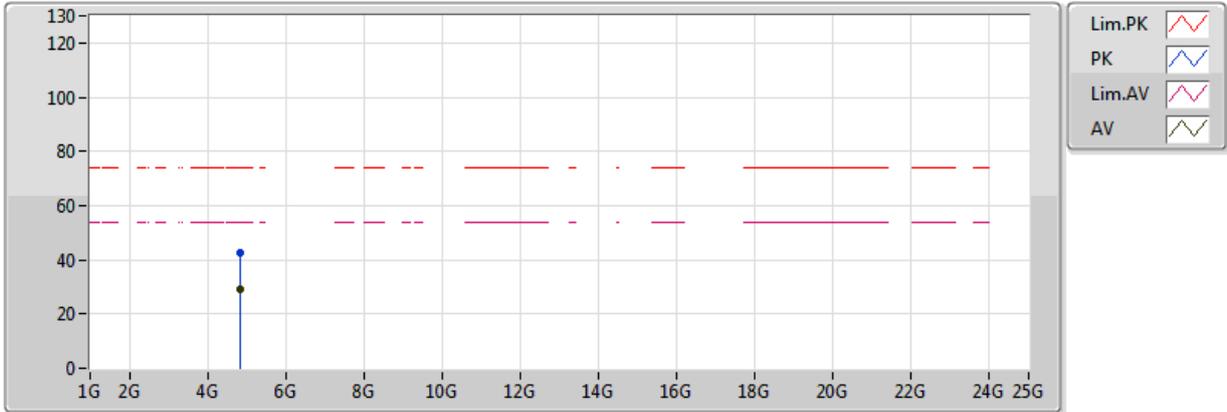
20180123
EUT_Z_4TX TX_Dipole
Setting 84
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82692G	29.04	54.00	-24.96	3.17	3	Vertical	257	2.99
PK	4.8261G	43.15	74.00	-30.85	3.17	3	Vertical	257	2.99

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

23/01/2018



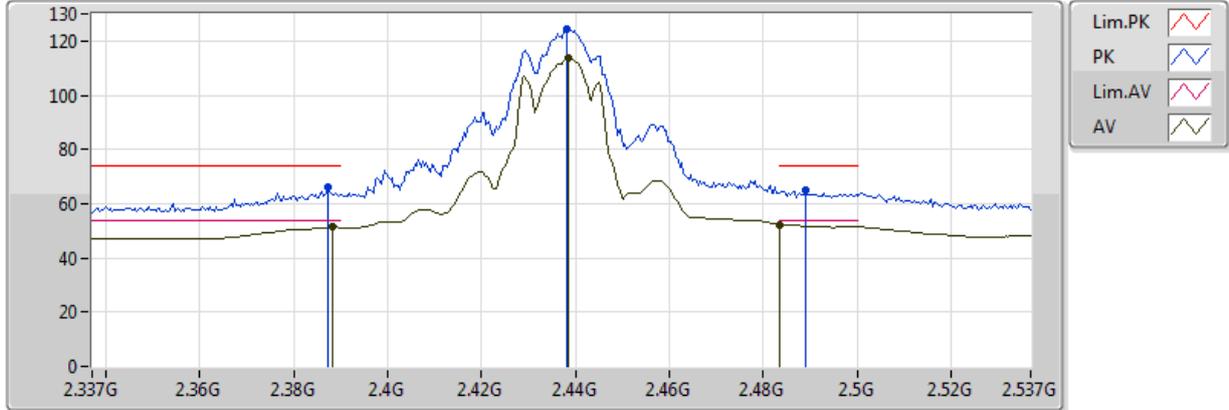
20180123
EUT_Z_4TX TX_Dipole
Setting 84
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82684G	28.95	54.00	-25.05	3.17	3	Horizontal	187	1.50
PK	4.8273G	42.78	74.00	-31.22	3.17	3	Horizontal	187	1.50

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

22/01/2018



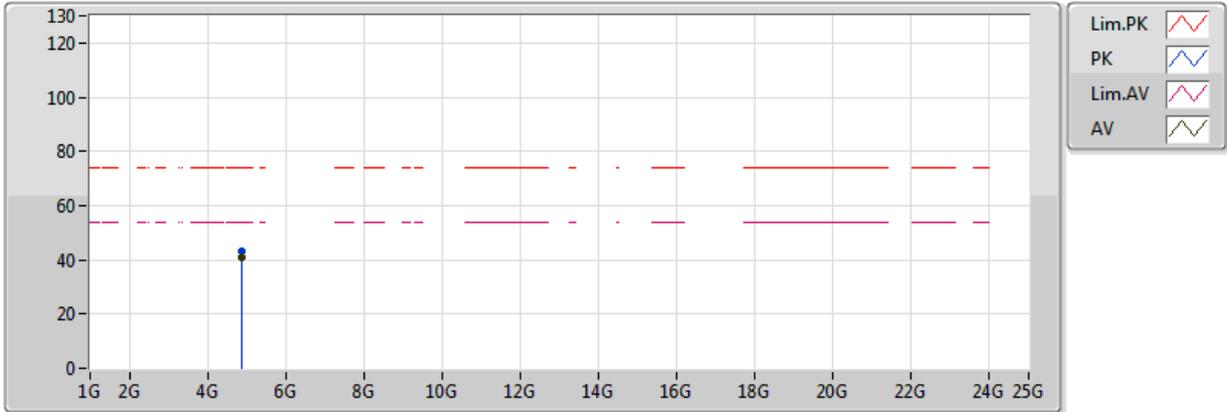
20180122
EUT_Z_4TX TX_Dipole
Setting 100
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3882G	51.28	54.00	-2.72	32.13	3	Vertical	211	1.33
AV	2.4386G	113.53	Inf	-Inf	32.30	3	Vertical	211	1.33
AV	2.483502G	52.23	54.00	-1.77	32.45	3	Vertical	211	1.33
PK	2.3874G	66.39	74.00	-7.61	32.13	3	Vertical	211	1.33
PK	2.4382G	124.41	Inf	-Inf	32.30	3	Vertical	211	1.33
PK	2.489G	64.85	74.00	-9.15	32.46	3	Vertical	211	1.33

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

23/01/2018



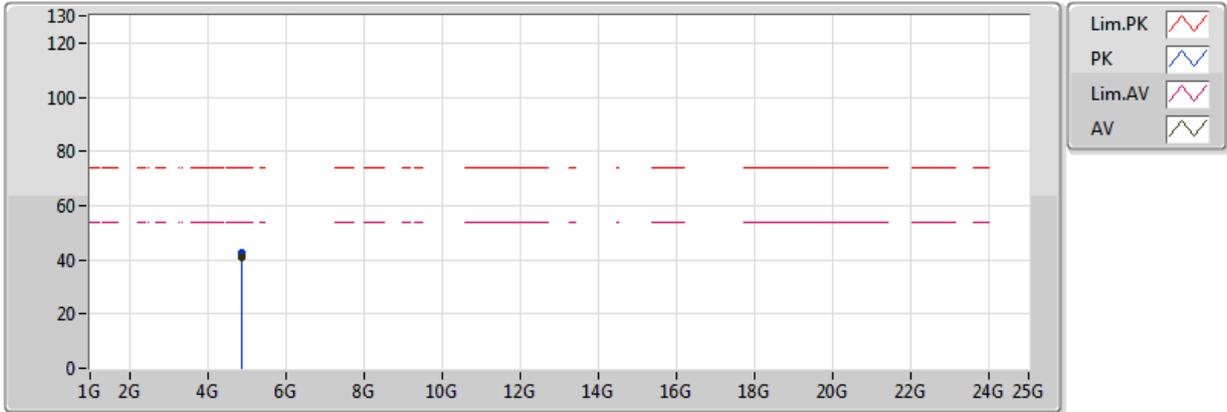
20180123
EUT_Z_4TX TX_Dipole
Setting 100
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87888G	40.70	54.00	-13.30	3.28	3	Vertical	335	1.49
PK	4.87774G	43.01	74.00	-30.99	3.28	3	Vertical	335	1.49

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

23/01/2018



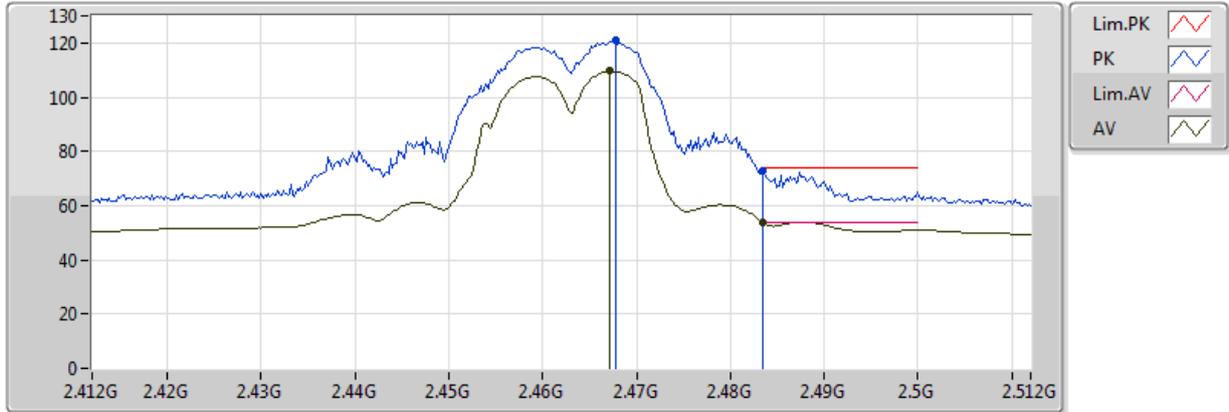
20180123
EUT_Z_4TX TX_Dipole
Setting 100
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87882G	40.98	54.00	-13.02	3.28	3	Horizontal	254	1.04
PK	4.8787G	42.53	74.00	-31.47	3.28	3	Horizontal	254	1.04

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

22/01/2018



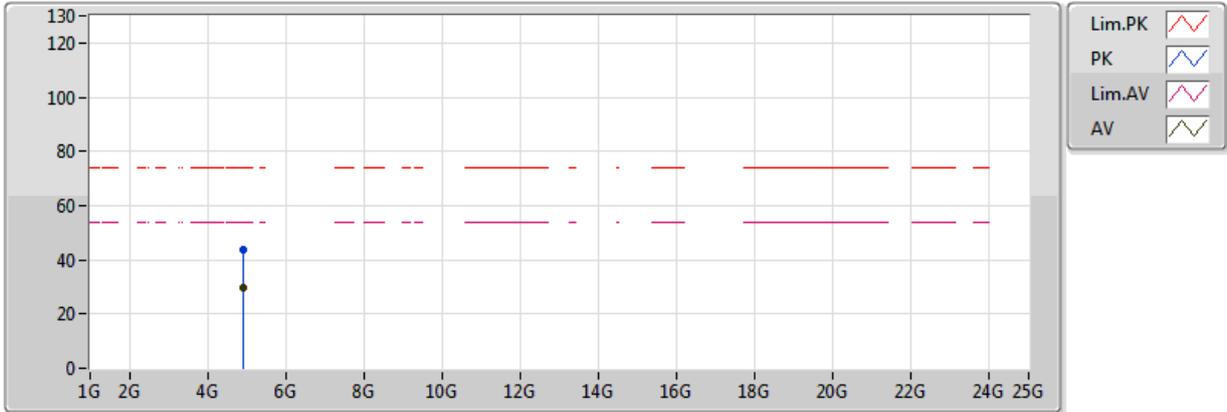
20180122
EUT_Z_4TX TX_Dipole
Setting 92
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4672G	109.58	Inf	-Inf	32.39	3	Vertical	181	1.30
AV	2.483502G	53.94	54.00	-0.06	32.45	3	Vertical	181	1.30
PK	2.4678G	120.97	Inf	-Inf	32.39	3	Vertical	181	1.30
PK	2.483502G	72.65	74.00	-1.35	32.45	3	Vertical	181	1.30

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

23/01/2018



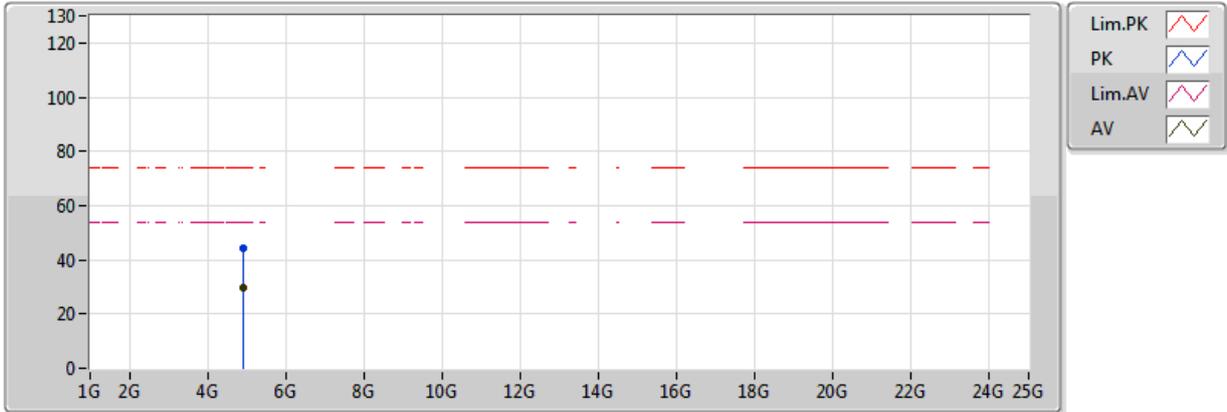
20180123
EUT_Z_4TX TX_Dipole
Setting 92
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.9208G	29.93	54.00	-24.07	3.38	3	Vertical	225	1.50
PK	4.92044G	43.93	74.00	-30.07	3.37	3	Vertical	225	1.50

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

23/01/2018



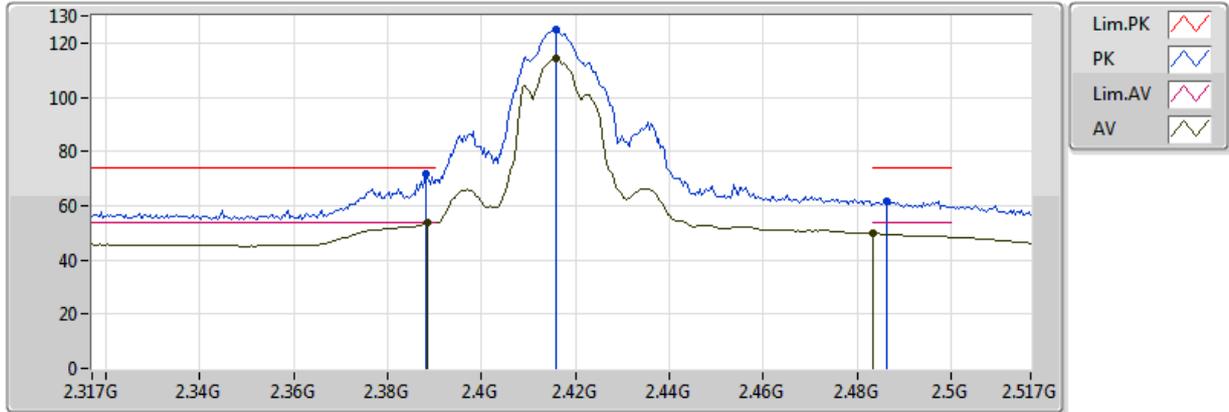
20180123
EUT_Z_4TX TX_Dipole
Setting 92
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92044G	29.80	54.00	-24.20	3.37	3	Horizontal	190	1.48
PK	4.92226G	44.04	74.00	-29.96	3.38	3	Horizontal	190	1.48

802.11g_Nss1,(6Mbps)_4TX

2417MHz_TX

23/01/2018



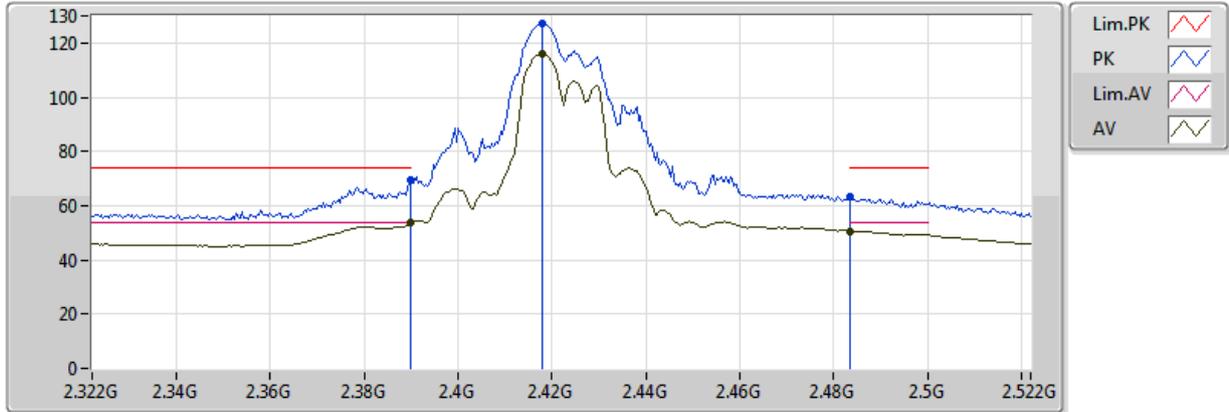
20180123
EUT_Z_4TX TX_Dipole
Setting 93
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3886G	53.93	54.00	-0.07	33.16	3	Vertical	343	1.50
AV	2.4158G	114.17	Inf	-Inf	33.17	3	Vertical	343	1.50
AV	2.483502G	49.69	54.00	-4.31	33.19	3	Vertical	343	1.50
PK	2.3882G	71.79	74.00	-2.21	33.16	3	Vertical	343	1.50
PK	2.4158G	125.09	Inf	-Inf	33.17	3	Vertical	343	1.50
PK	2.4862G	61.80	74.00	-12.20	33.19	3	Vertical	343	1.50

802.11g_Nss1,(6Mbps)_4TX

2422MHz_TX

23/01/2018



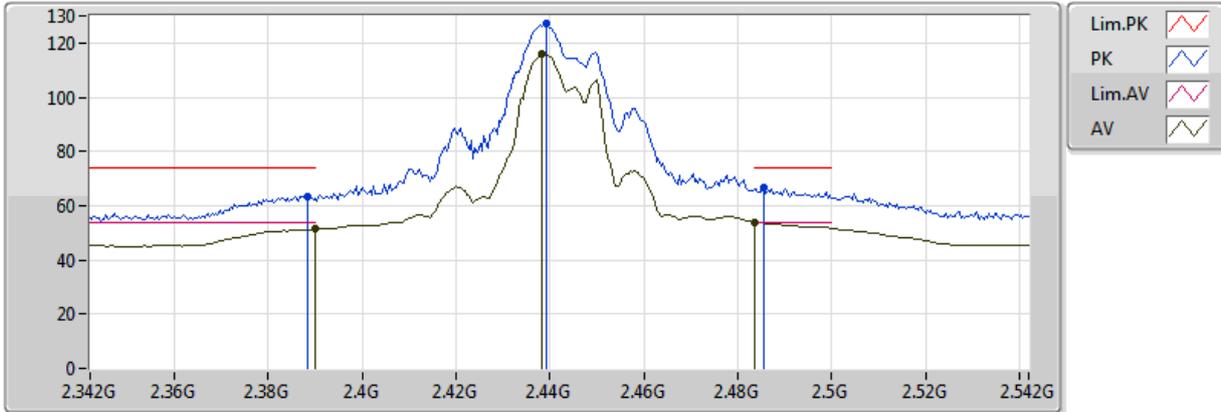
20180123
EUT_Z_4TX TX_Dipole
Setting 98
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	53.76	54.00	-0.24	33.16	3	Vertical	354	1.72
AV	2.418G	115.98	Inf	-Inf	33.17	3	Vertical	354	1.72
AV	2.4836G	50.69	54.00	-3.31	33.19	3	Vertical	354	1.72
PK	2.39G	69.39	74.00	-4.61	33.16	3	Vertical	354	1.72
PK	2.418G	127.30	Inf	-Inf	33.17	3	Vertical	354	1.72
PK	2.4836G	63.12	74.00	-10.88	33.19	3	Vertical	354	1.72

802.11g_Nss1,(6Mbps)_4TX

2442MHz_TX

23/01/2018



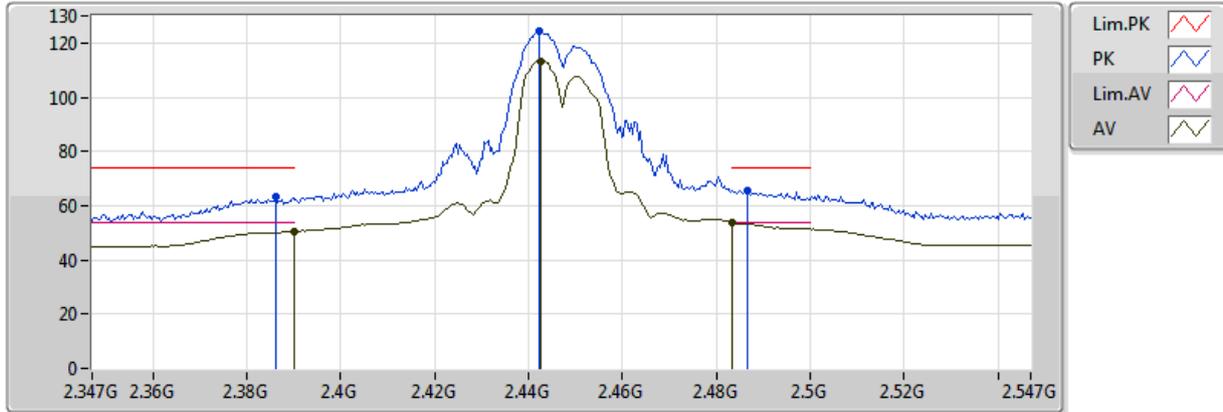
20180123
EUT_Z_4TX TX_Dipole
Setting 98
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	51.36	54.00	-2.64	33.16	3	Vertical	40	2.43
AV	2.4384G	115.92	Inf	-Inf	33.18	3	Vertical	40	2.43
AV	2.4836G	53.86	54.00	-0.14	33.19	3	Vertical	40	2.43
PK	2.3884G	63.17	74.00	-10.83	33.16	3	Vertical	40	2.43
PK	2.4392G	127.05	Inf	-Inf	33.18	3	Vertical	40	2.43
PK	2.4856G	66.86	74.00	-7.14	33.19	3	Vertical	40	2.43

802.11g_Nss1,(6Mbps)_4TX

2447MHz_TX

23/01/2018



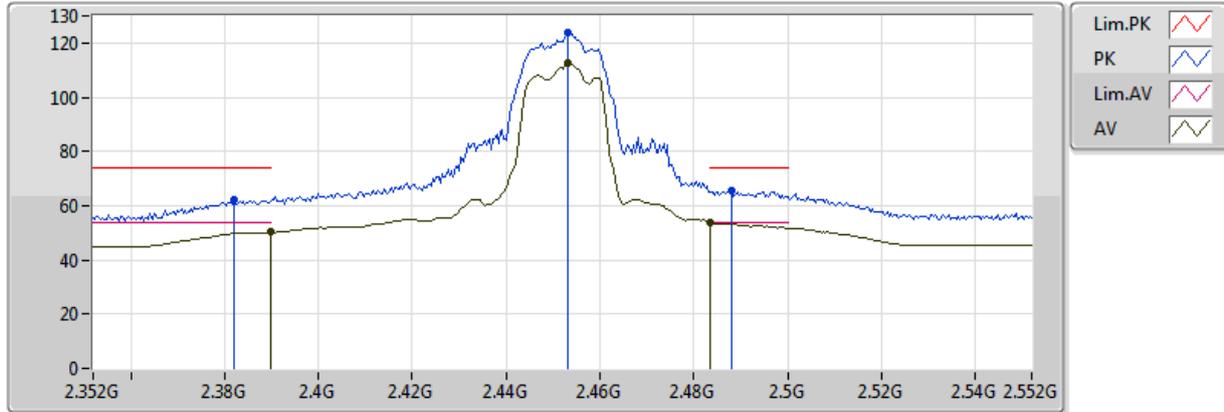
20180123
EUT_Z_4TX TX_Dipole
Setting 92
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	50.46	54.00	-3.54	33.16	3	Vertical	27	1.50
AV	2.4426G	113.40	Inf	-Inf	33.18	3	Vertical	27	1.50
AV	2.483502G	53.65	54.00	-0.35	33.19	3	Vertical	27	1.50
PK	2.3862G	63.14	74.00	-10.86	33.16	3	Vertical	27	1.50
PK	2.4422G	124.25	Inf	-Inf	33.18	3	Vertical	27	1.50
PK	2.4866G	65.76	74.00	-8.24	33.19	3	Vertical	27	1.50

802.11g_Nss1,(6Mbps)_4TX

2452MHz_TX

23/01/2018



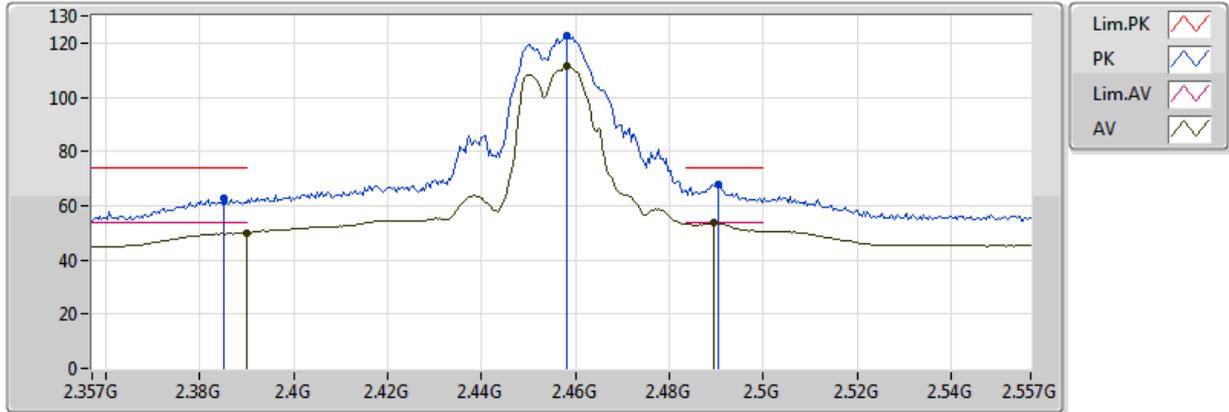
20180123
EUT_Z_4TX TX_Dipole
Setting 91
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	50.26	54.00	-3.74	33.16	3	Vertical	32	1.87
AV	2.4532G	112.51	Inf	-Inf	33.18	3	Vertical	32	1.87
AV	2.4836G	53.80	54.00	-0.20	33.19	3	Vertical	32	1.87
PK	2.382G	62.18	74.00	-11.82	33.16	3	Vertical	32	1.87
PK	2.4532G	123.77	Inf	-Inf	33.18	3	Vertical	32	1.87
PK	2.488G	65.71	74.00	-8.29	33.19	3	Vertical	32	1.87

802.11g_Nss1,(6Mbps)_4TX

2457MHz_TX

23/01/2018



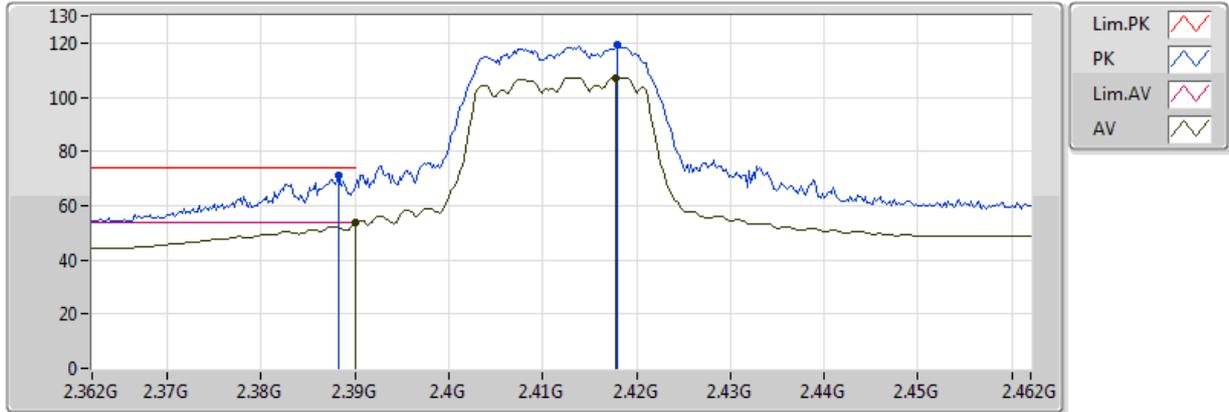
20180123
EUT_Z_4TX TX_Dipole
Setting 92
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	49.96	54.00	-4.04	33.16	3	Vertical	321	1.36
AV	2.4582G	111.61	Inf	-Inf	33.18	3	Vertical	321	1.36
AV	2.4894G	53.63	54.00	-0.37	33.19	3	Vertical	321	1.36
PK	2.385G	62.54	74.00	-11.46	33.16	3	Vertical	321	1.36
PK	2.4582G	122.47	Inf	-Inf	33.18	3	Vertical	321	1.36
PK	2.4906G	67.89	74.00	-6.11	33.19	3	Vertical	321	1.36

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

22/01/2018



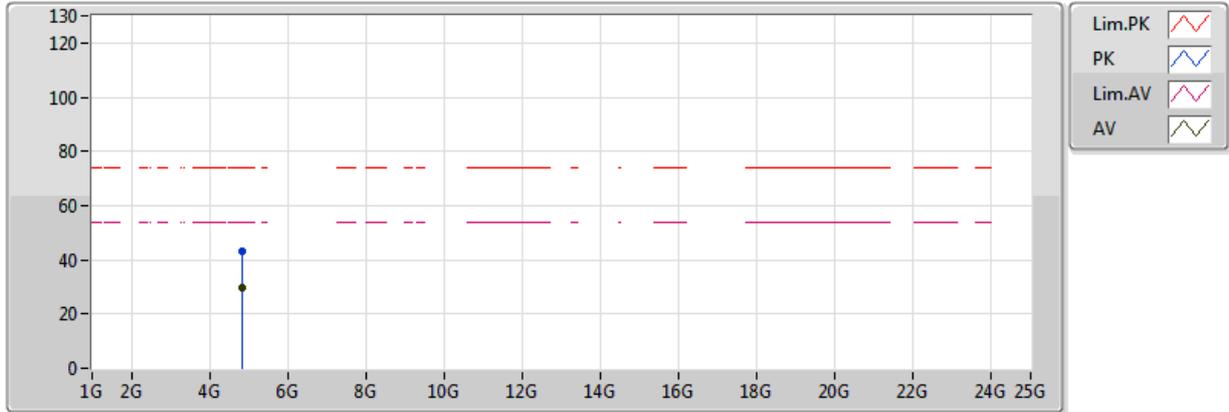
20180122
EUT_Z_4_TX_Dipole
Setting 83
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.57	54.00	-0.43	32.12	3	Vertical	22	2.06	-
AV	2.4178G	107.25	Inf	-Inf	32.21	3	Vertical	22	2.06	-
PK	2.3882G	70.95	74.00	-3.05	32.11	3	Vertical	22	2.06	-
PK	2.418G	119.35	Inf	-Inf	32.21	3	Vertical	22	2.06	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

23/01/2018



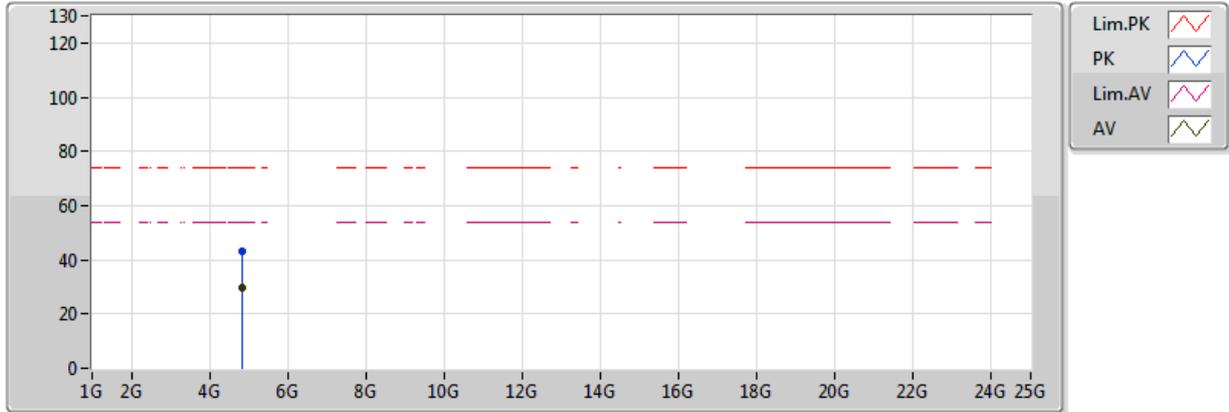
20180123
EUT_Z_4TX TX_Dipole
Setting 83
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82766G	29.68	54.00	-24.32	3.17	3	Vertical	12	1.96
PK	4.82664G	43.12	74.00	-30.88	3.17	3	Vertical	12	1.96

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

23/01/2018



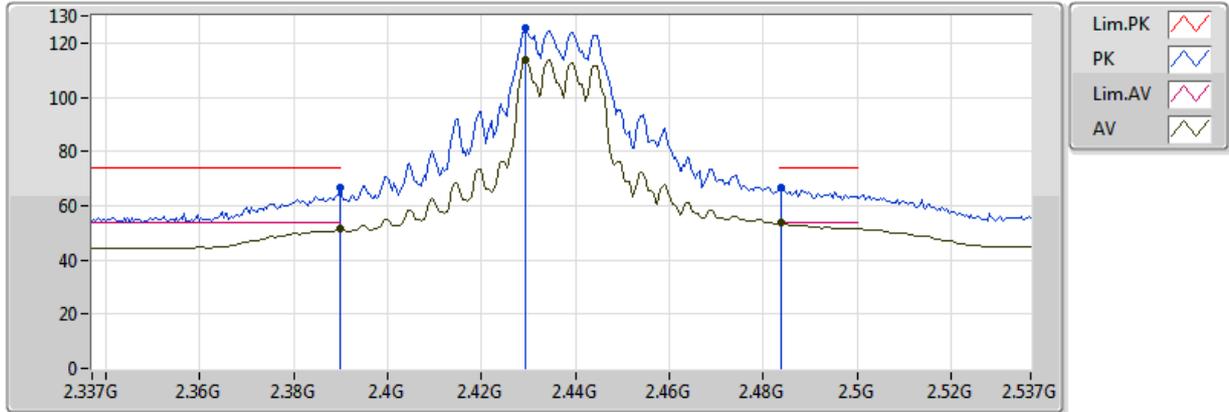
20180123
EUT_Z_4TX TX_Dipole
Setting 83
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82744G	29.57	54.00	-24.43	3.17	3	Horizontal	346	2.23
PK	4.82416G	43.10	74.00	-30.90	3.16	3	Horizontal	346	2.23

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



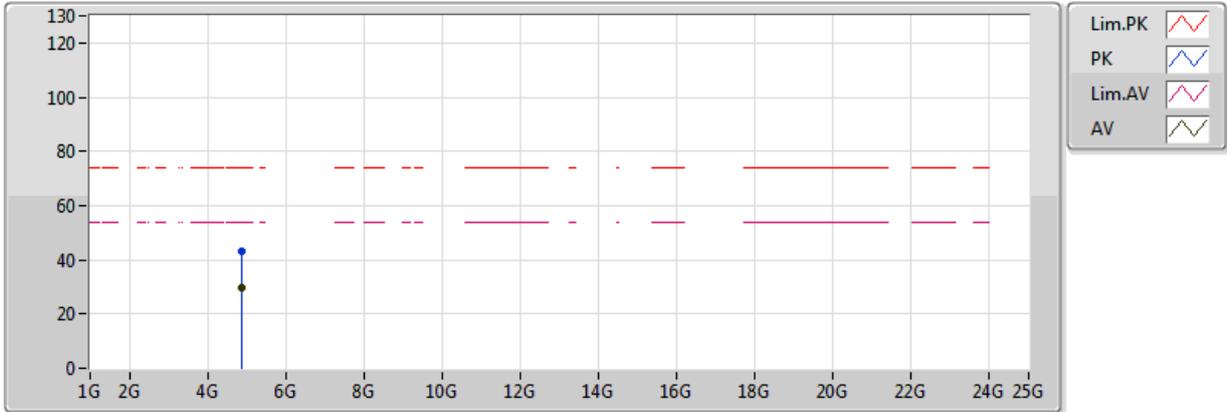
20180122
EUT_Z_4_TX_Dipole
Setting 99
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	51.40	54.00	-2.60	32.12	3	Vertical	30	1.52
AV	2.4294G	113.94	Inf	-Inf	32.25	3	Vertical	30	1.52
AV	2.4838G	53.75	54.00	-0.25	32.42	3	Vertical	30	1.52
PK	2.389998G	66.65	74.00	-7.35	32.12	3	Vertical	30	1.52
PK	2.4294G	125.26	Inf	-Inf	32.25	3	Vertical	30	1.52
PK	2.4838G	66.42	74.00	-7.58	32.42	3	Vertical	30	1.52

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



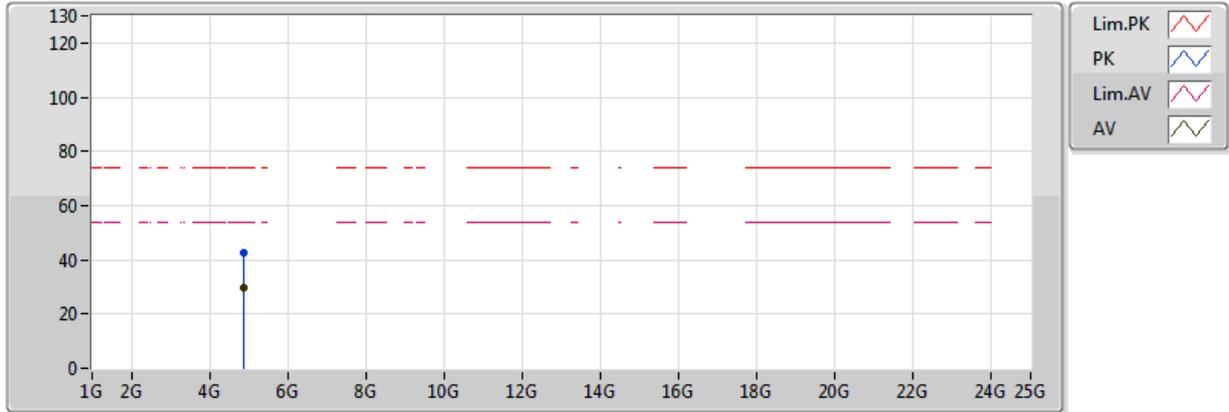
20180123
EUT_Z_4TX TX_Dipole
Setting 99
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87252G	29.64	54.00	-24.36	3.27	3	Vertical	0	1.94
PK	4.87706G	43.18	74.00	-30.82	3.28	3	Vertical	0	1.94

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



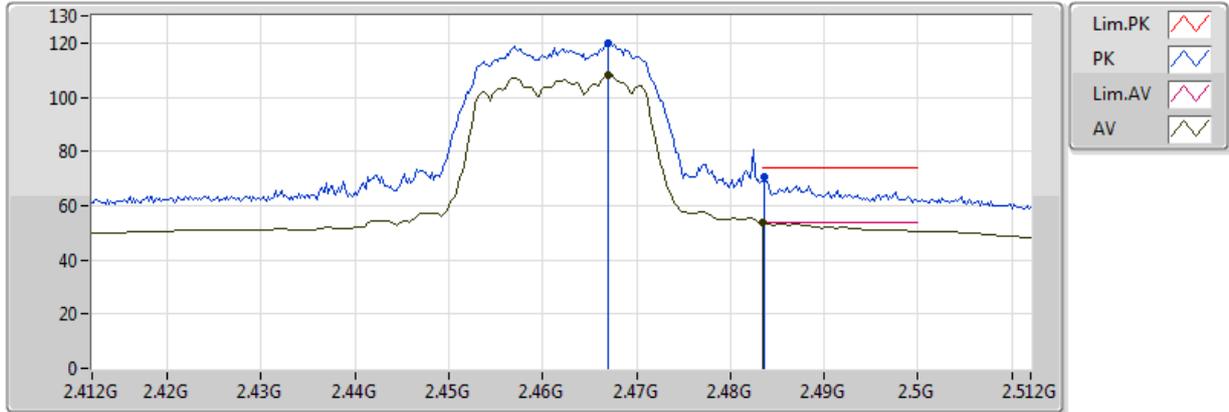
20180123
EUT_Z_4TX TX_Dipole
Setting 99
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.86982G	29.64	54.00	-24.36	3.26	3	Horizontal	202	1.50
PK	4.87036G	42.80	74.00	-31.20	3.26	3	Horizontal	202	1.50

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

22/01/2018



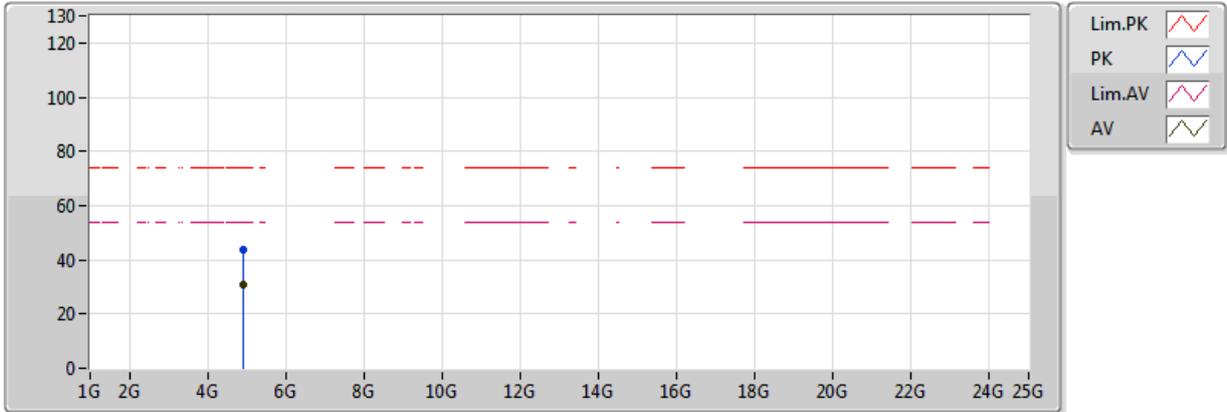
20180122
EUT_Z_4_TX_Dipole
Setting 82
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.467G	108.20	Inf	-Inf	32.37	3	Vertical	42	2.26	-
AV	2.483502G	53.57	54.00	-0.43	32.42	3	Vertical	42	2.26	-
PK	2.467G	119.68	Inf	-Inf	32.37	3	Vertical	42	2.26	-
PK	2.4836G	70.44	74.00	-3.56	32.42	3	Vertical	42	2.26	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

23/01/2018



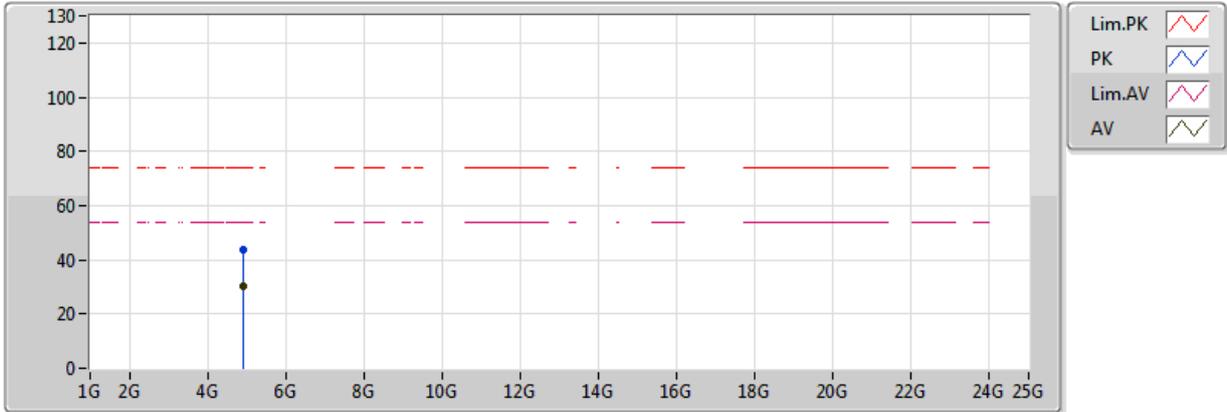
20180123
EUT_Z_4TX TX_Dipole
Setting 82
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.9259G	30.69	54.00	-23.31	3.39	3	Vertical	235	1.50
PK	4.92208G	43.93	74.00	-30.07	3.38	3	Vertical	235	1.50

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

23/01/2018



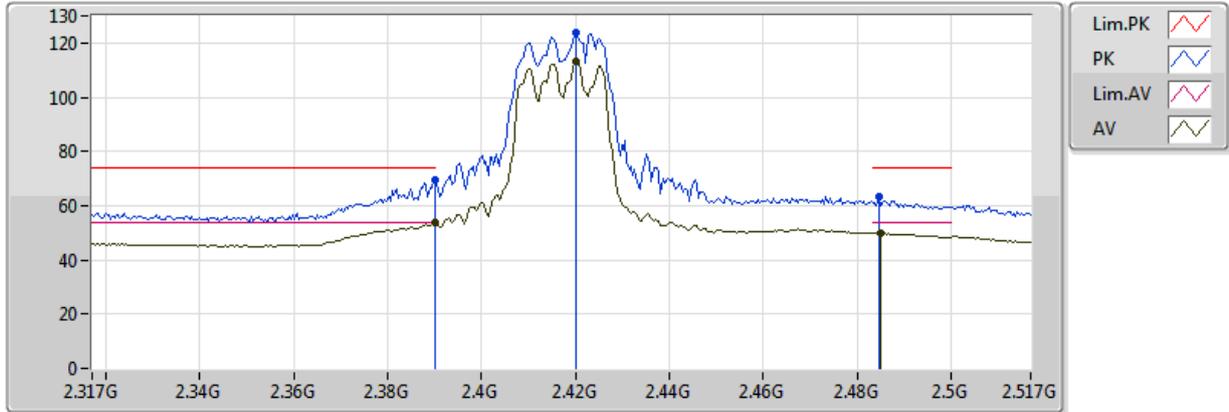
20180123
 EUT_Z_4TX TX_Dipole
 Setting 82
 04-C-4
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92256G	30.46	54.00	-23.54	3.38	3	Horizontal	205	1.50
PK	4.9233G	43.67	74.00	-30.33	3.38	3	Horizontal	205	1.50

802.11ac VHT20_Nss1,(MCS0)_4TX

2417MHz_TX

23/01/2018



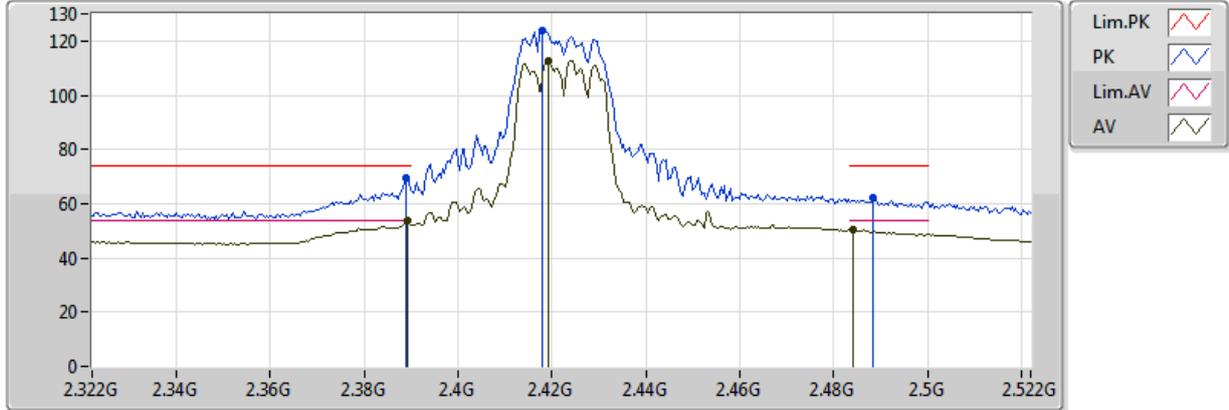
20180123
EUT_Z_4TX TX_Dipole
Setting 85
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	53.72	54.00	-0.28	33.16	3	Vertical	354	1.75
AV	2.4202G	113.10	Inf	-Inf	33.17	3	Vertical	354	1.75
AV	2.485G	50.07	54.00	-3.93	33.19	3	Vertical	354	1.75
PK	2.389998G	69.72	74.00	-4.28	33.16	3	Vertical	354	1.75
PK	2.4202G	123.61	Inf	-Inf	33.17	3	Vertical	354	1.75
PK	2.4846G	63.16	74.00	-10.84	33.19	3	Vertical	354	1.75

802.11ac VHT20_Nss1,(MCS0)_4TX

2422MHz_TX

23/01/2018



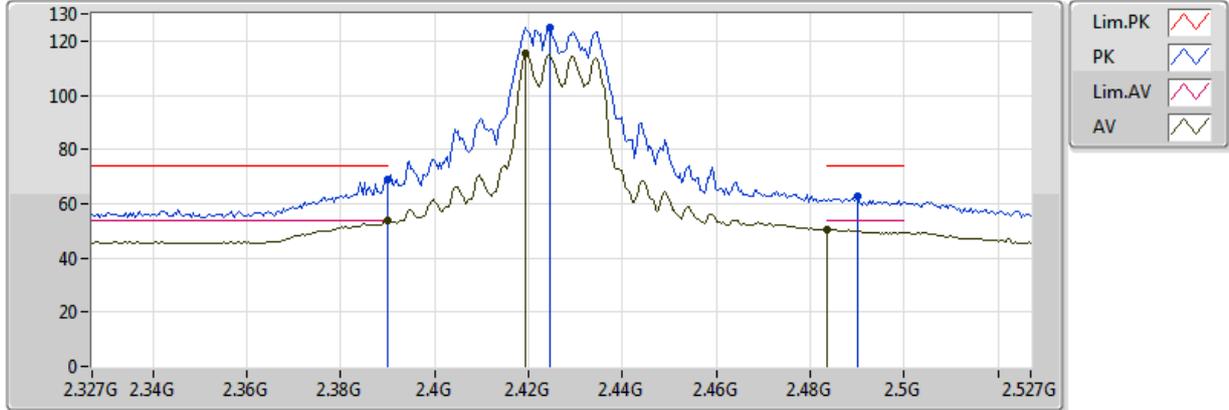
20180123
EUT_Z_4TX TX_Dipole
Setting 89
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3892G	53.76	54.00	-0.24	33.16	3	Vertical	354	1.72
AV	2.4192G	112.78	Inf	-Inf	33.17	3	Vertical	354	1.72
AV	2.484G	50.33	54.00	-3.67	33.19	3	Vertical	354	1.72
PK	2.3888G	69.46	74.00	-4.54	33.16	3	Vertical	354	1.72
PK	2.418G	124.05	Inf	-Inf	33.17	3	Vertical	354	1.72
PK	2.4884G	62.35	74.00	-11.65	33.19	3	Vertical	354	1.72

802.11ac VHT20_Nss1,(MCS0)_4TX

2427MHz_TX

23/01/2018



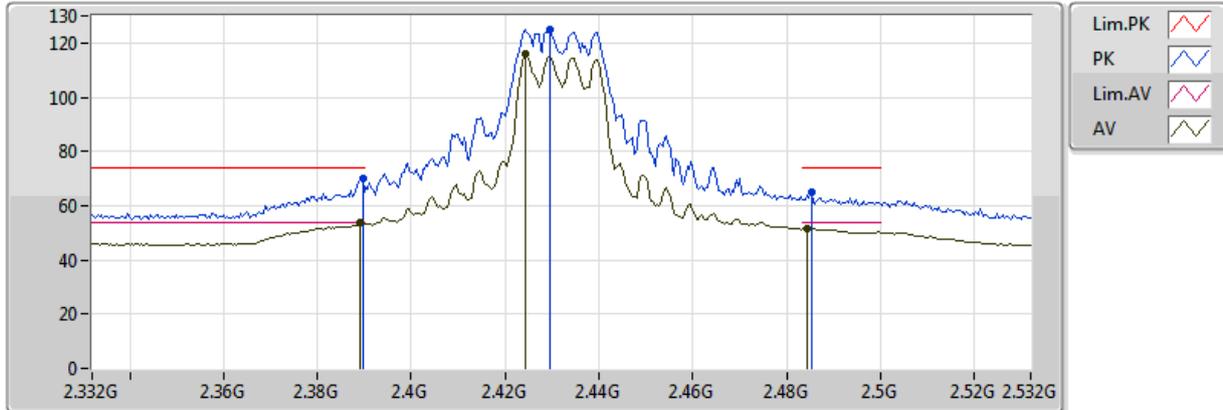
20180123
EUT_Z_4TX TX_Dipole
Setting 95
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	53.99	54.00	-0.01	33.16	3	Vertical	340	1.72
AV	2.4194G	115.18	Inf	-Inf	33.17	3	Vertical	340	1.72
AV	2.483502G	50.57	54.00	-3.43	33.19	3	Vertical	340	1.72
PK	2.389998G	68.78	74.00	-5.22	33.16	3	Vertical	340	1.72
PK	2.4246G	125.00	Inf	-Inf	33.17	3	Vertical	340	1.72
PK	2.4902G	62.56	74.00	-11.44	33.19	3	Vertical	340	1.72

802.11ac VHT20_Nss1,(MCS0)_4TX

2432MHz_TX

23/01/2018



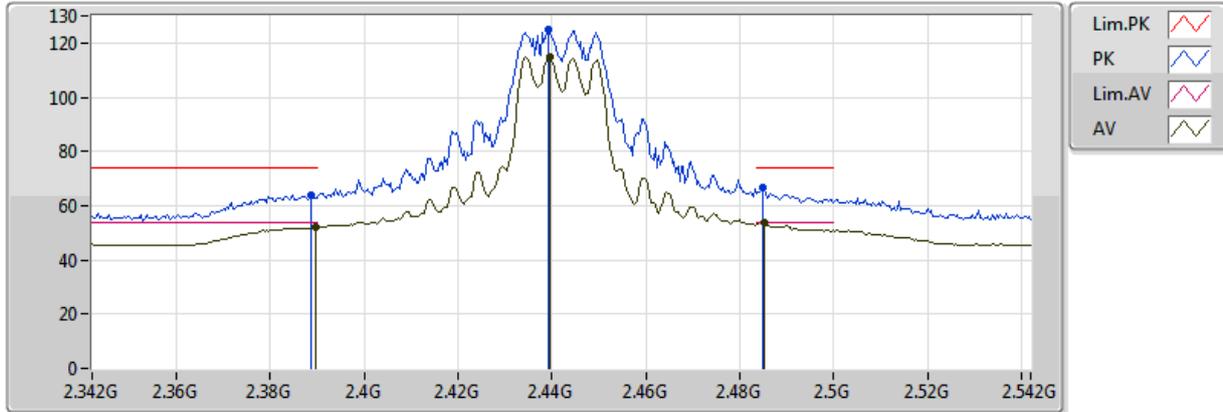
20180123
EUT_Z_4TX TX_Dipole
Setting 97
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3892G	53.72	54.00	-0.28	33.16	3	Vertical	340	1.72
AV	2.4244G	115.73	Inf	-Inf	33.17	3	Vertical	340	1.72
AV	2.4844G	51.66	54.00	-2.34	33.19	3	Vertical	340	1.72
PK	2.3896G	69.84	74.00	-4.16	33.16	3	Vertical	340	1.72
PK	2.4296G	125.18	Inf	-Inf	33.18	3	Vertical	340	1.72
PK	2.4852G	65.17	74.00	-8.83	33.19	3	Vertical	340	1.72

802.11ac VHT20_Nss1,(MCS0)_4TX

2442MHz_TX

23/01/2018



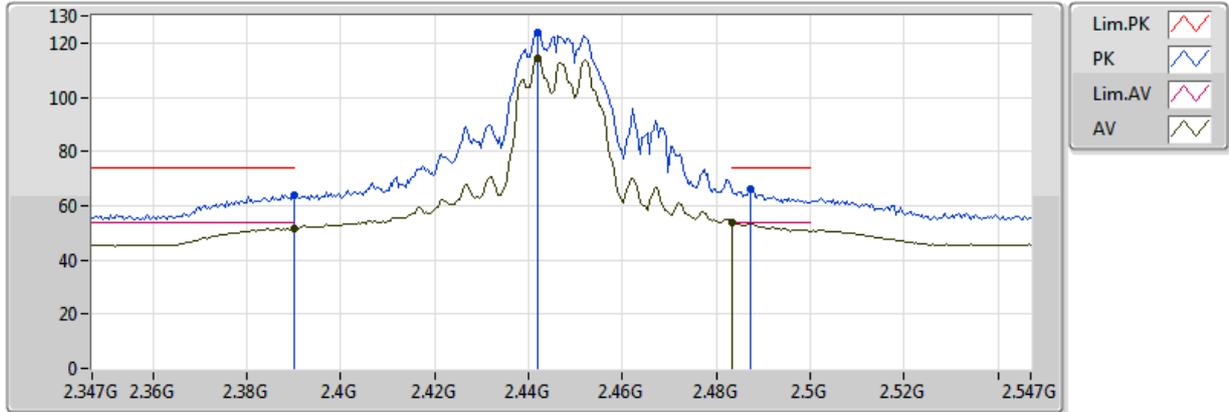
20180123
EUT_Z_4TX TX_Dipole
Setting 96
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3896G	51.96	54.00	-2.04	33.16	3	Vertical	339	1.50
AV	2.4396G	115.13	Inf	-Inf	33.18	3	Vertical	339	1.50
AV	2.4852G	53.77	54.00	-0.23	33.19	3	Vertical	339	1.50
PK	2.3888G	63.93	74.00	-10.07	33.16	3	Vertical	339	1.50
PK	2.4392G	124.68	Inf	-Inf	33.18	3	Vertical	339	1.50
PK	2.4848G	66.91	74.00	-7.09	33.19	3	Vertical	339	1.50

802.11ac VHT20_Nss1,(MCS0)_4TX

2447MHz_TX

23/01/2018



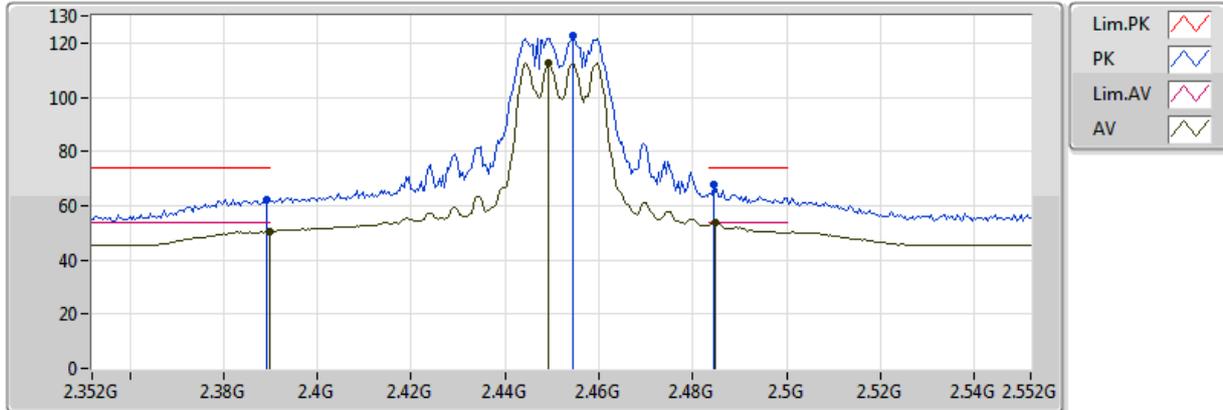
20180123
EUT_Z_4TX TX_Dipole
Setting 94
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	51.65	54.00	-2.35	33.16	3	Vertical	337	1.50
AV	2.4418G	114.34	Inf	-Inf	33.18	3	Vertical	337	1.50
AV	2.483502G	53.93	54.00	-0.07	33.19	3	Vertical	337	1.50
PK	2.389998G	63.80	74.00	-10.20	33.16	3	Vertical	337	1.50
PK	2.4418G	123.72	Inf	-Inf	33.18	3	Vertical	337	1.50
PK	2.4874G	66.05	74.00	-7.95	33.19	3	Vertical	337	1.50

802.11ac VHT20_Nss1,(MCS0)_4TX

2452MHz_TX

23/01/2018



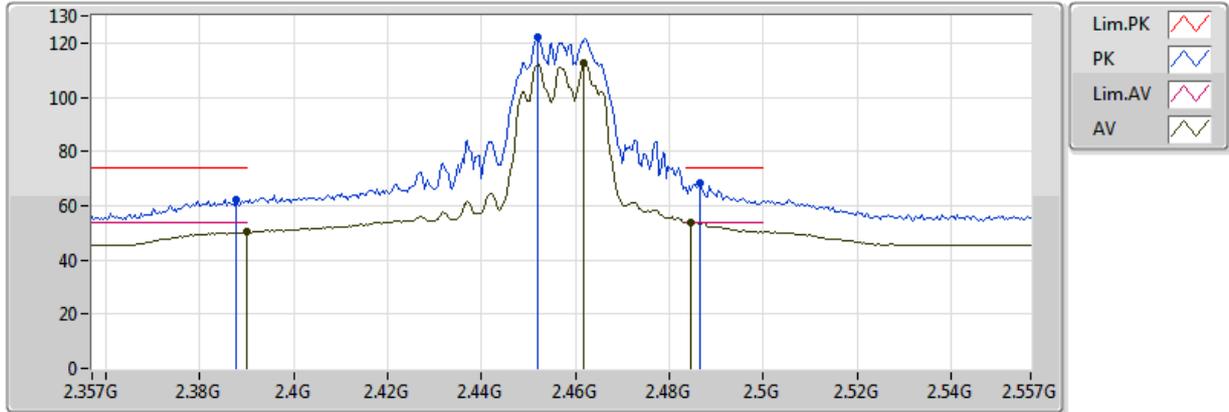
20180123
EUT_Z_4TX TX_Dipole
Setting 88
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	50.46	54.00	-3.54	33.16	3	Vertical	340	1.49
AV	2.4492G	112.45	Inf	-Inf	33.18	3	Vertical	340	1.49
AV	2.4848G	53.70	54.00	-0.30	33.19	3	Vertical	340	1.49
PK	2.3892G	62.22	74.00	-11.78	33.16	3	Vertical	340	1.49
PK	2.4544G	122.66	Inf	-Inf	33.18	3	Vertical	340	1.49
PK	2.4844G	67.74	74.00	-6.26	33.19	3	Vertical	340	1.49

802.11ac VHT20_Nss1,(MCS0)_4TX

2457MHz_TX

23/01/2018



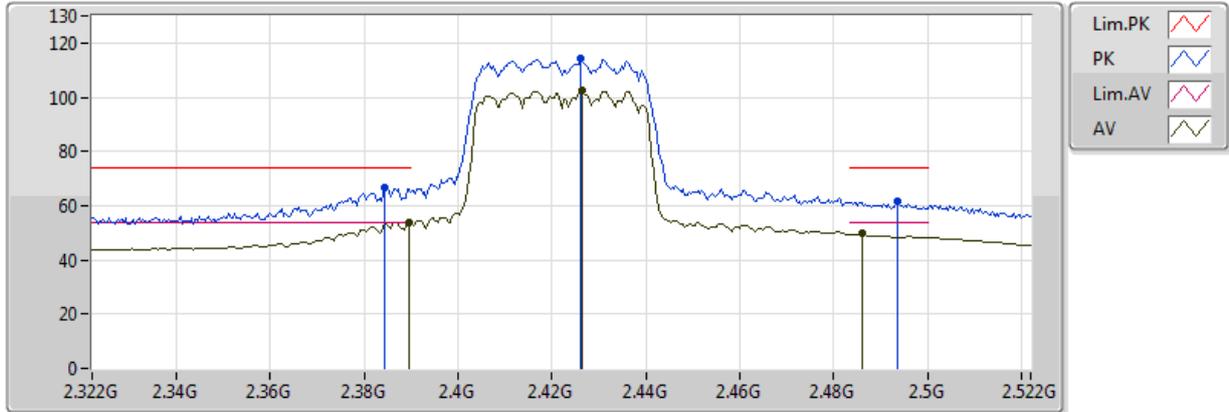
20180123
EUT_Z_4TX TX_Dipole
Setting 88
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	50.42	54.00	-3.58	33.16	3	Vertical	337	1.50
AV	2.4618G	112.55	Inf	-Inf	33.18	3	Vertical	337	1.50
AV	2.4846G	53.97	54.00	-0.03	33.19	3	Vertical	337	1.50
PK	2.3878G	62.31	74.00	-11.69	33.16	3	Vertical	337	1.50
PK	2.4518G	122.12	Inf	-Inf	33.18	3	Vertical	337	1.50
PK	2.4866G	68.30	74.00	-5.70	33.19	3	Vertical	337	1.50

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

22/01/2018



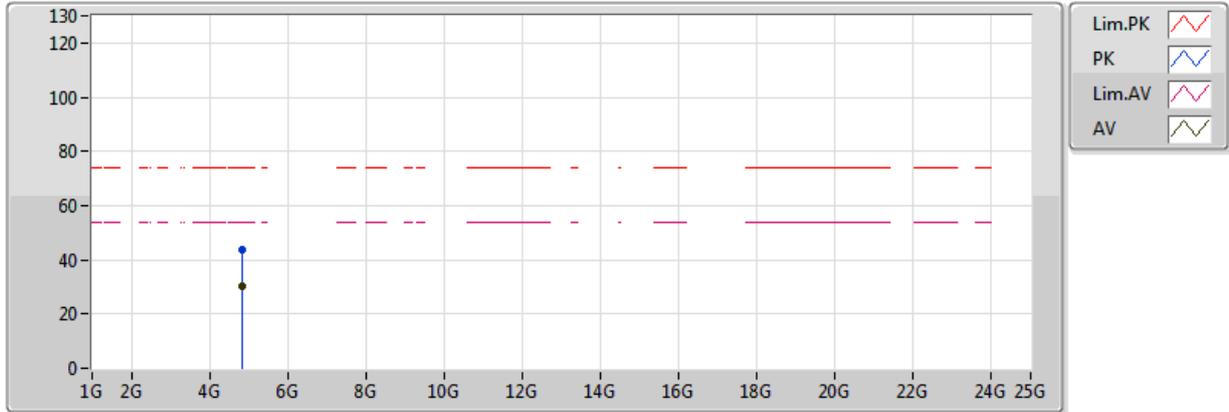
20180122
EUT_Z_4_TX_Dipole
Setting 73
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	53.93	54.00	-0.07	32.12	3	Vertical	28	1.90	-
AV	2.4264G	102.29	Inf	-Inf	32.24	3	Vertical	28	1.90	-
AV	2.486G	49.64	54.00	-4.36	32.43	3	Vertical	28	1.90	-
PK	2.3844G	66.44	74.00	-7.56	32.10	3	Vertical	28	1.90	-
PK	2.426G	114.11	Inf	-Inf	32.23	3	Vertical	28	1.90	-
PK	2.4936G	61.72	74.00	-12.28	32.45	3	Vertical	28	1.90	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

23/01/2018



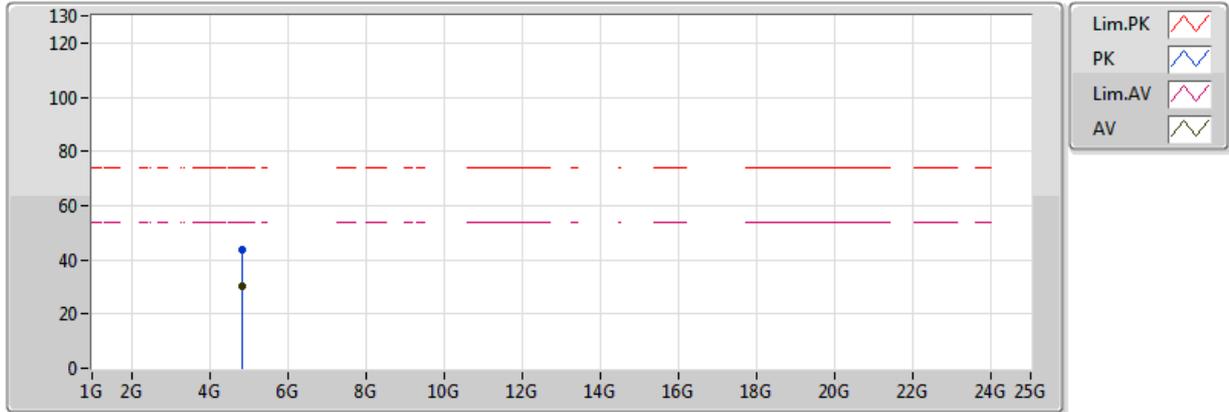
20180123
EUT_Z_4TX TX_Dipole
Setting 73
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.84076G	30.22	54.00	-23.78	3.20	3	Vertical	37	1.29
PK	4.84772G	43.43	74.00	-30.57	3.21	3	Vertical	37	1.29

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

23/01/2018



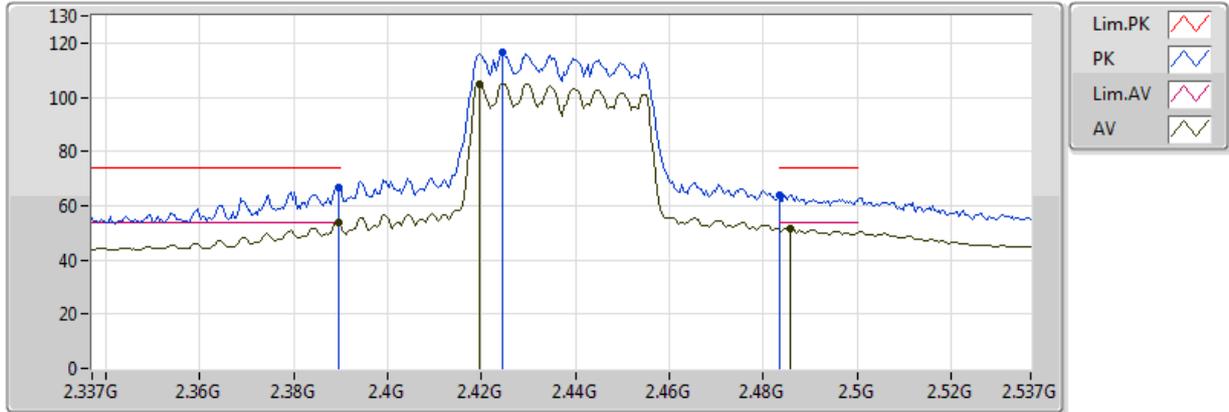
20180123
EUT_Z_4TX TX_Dipole
Setting 73
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.84512G	30.15	54.00	-23.85	3.21	3	Horizontal	117	1.62
PK	4.84156G	43.45	74.00	-30.55	3.20	3	Horizontal	117	1.62

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

22/01/2018



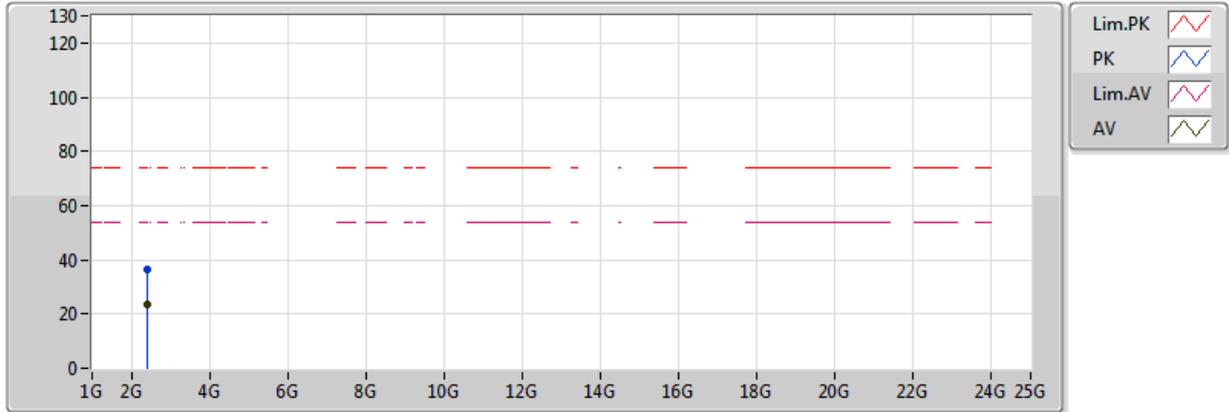
20180122
EUT_Z_4_TX_Dipole
Setting 78
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	53.61	54.00	-0.39	32.12	3	Vertical	312	2.19	-
AV	2.4194G	104.98	Inf	-Inf	32.21	3	Vertical	312	2.19	-
AV	2.4858G	51.80	54.00	-2.20	32.43	3	Vertical	312	2.19	-
PK	2.3894G	66.83	74.00	-7.17	32.12	3	Vertical	312	2.19	-
PK	2.4246G	116.43	Inf	-Inf	32.23	3	Vertical	312	2.19	-
PK	2.483502G	64.15	74.00	-9.85	32.42	3	Vertical	312	2.19	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



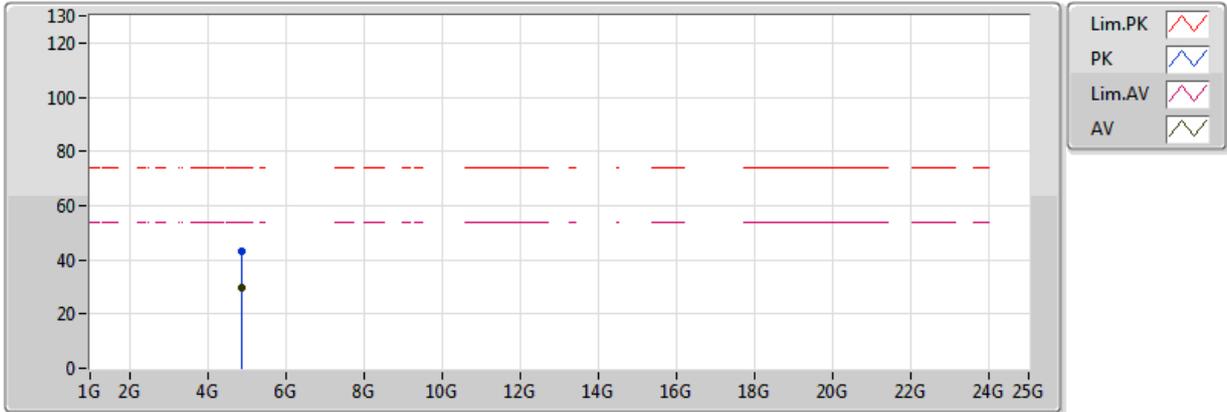
20180123
EUT_Z_4TX TX_Dipole
Setting 78
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.42492G	23.53	Inf	-Inf	-4.16	3	Vertical	0	1.59
PK	2.42516G	36.56	Inf	-Inf	-4.16	3	Vertical	0	1.59

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



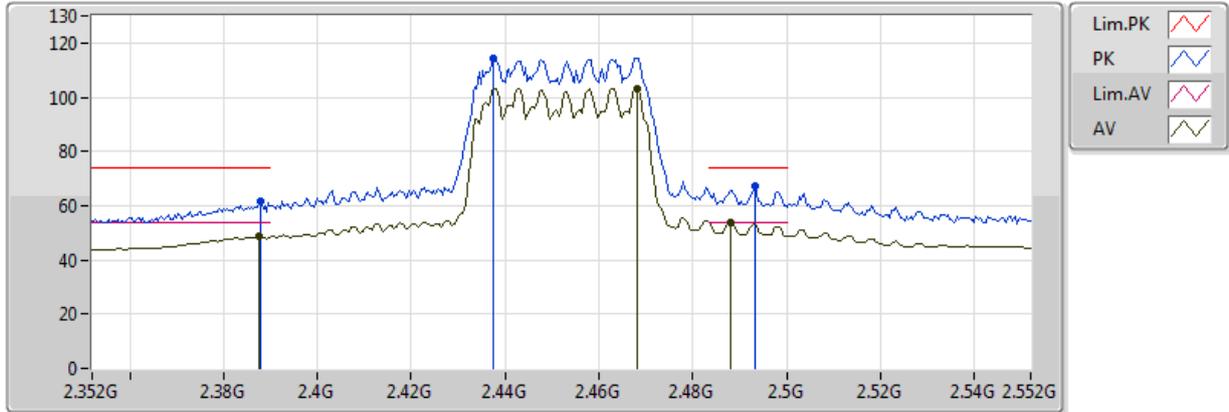
20180123
EUT_Z_4TX TX_Dipole
Setting 78
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87292G	29.65	54.00	-24.35	3.27	3	Horizontal	3	2.98
PK	4.87528G	42.93	74.00	-31.07	3.28	3	Horizontal	3	2.98

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

22/01/2018



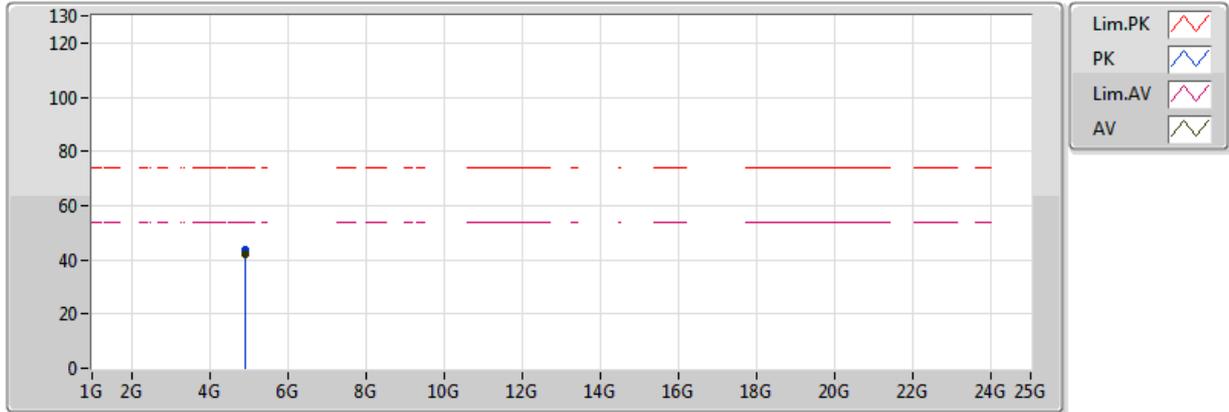
20180122
EUT_Z_4_TX_Dipole
Setting 72
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3876G	48.57	54.00	-5.43	32.11	3	Vertical	325	1.55	-
AV	2.468G	103.15	Inf	-Inf	32.37	3	Vertical	325	1.55	-
AV	2.488G	53.90	54.00	-0.10	32.44	3	Vertical	325	1.55	-
PK	2.388G	61.50	74.00	-12.50	32.11	3	Vertical	325	1.55	-
PK	2.4376G	114.54	Inf	-Inf	32.27	3	Vertical	325	1.55	-
PK	2.4932G	67.50	74.00	-6.50	32.45	3	Vertical	325	1.55	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

23/01/2018



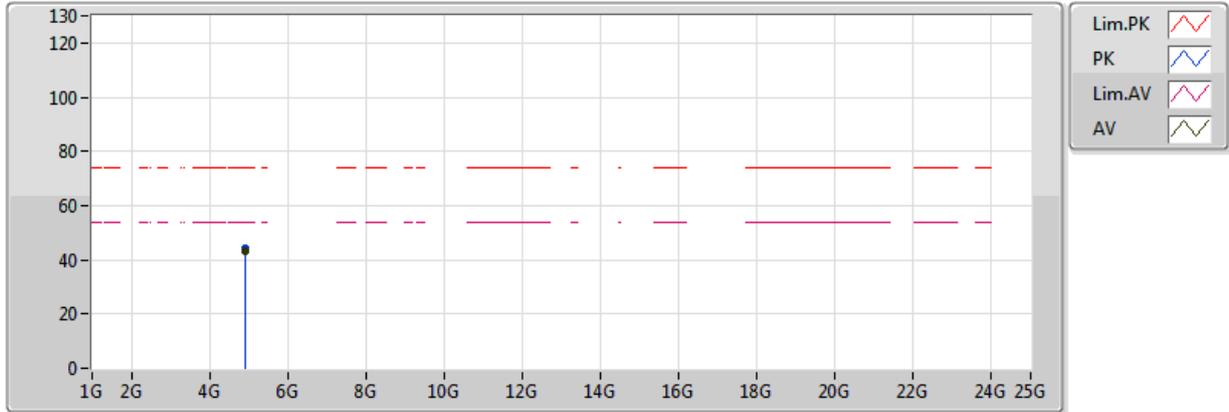
20180123
EUT_Z_4TX TX_Dipole
Setting 72
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.90896G	41.82	54.00	-12.18	3.35	3	Vertical	0	2.41
PK	4.90176G	43.87	74.00	-30.13	3.33	3	Vertical	0	2.41

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

23/01/2018



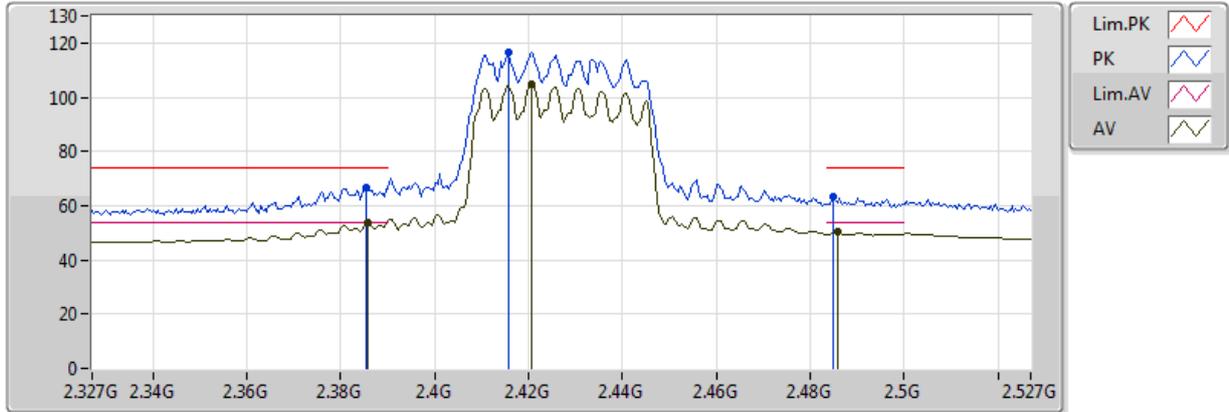
20180123
EUT_Z_4TX TX_Dipole
Setting 72
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.90892G	43.08	54.00	-10.92	3.35	3	Horizontal	207	1.50
PK	4.9017G	44.24	74.00	-29.76	3.33	3	Horizontal	207	1.50

802.11ac VHT40_Nss1,(MCS0)_4TX

2427MHz_TX

22/01/2018



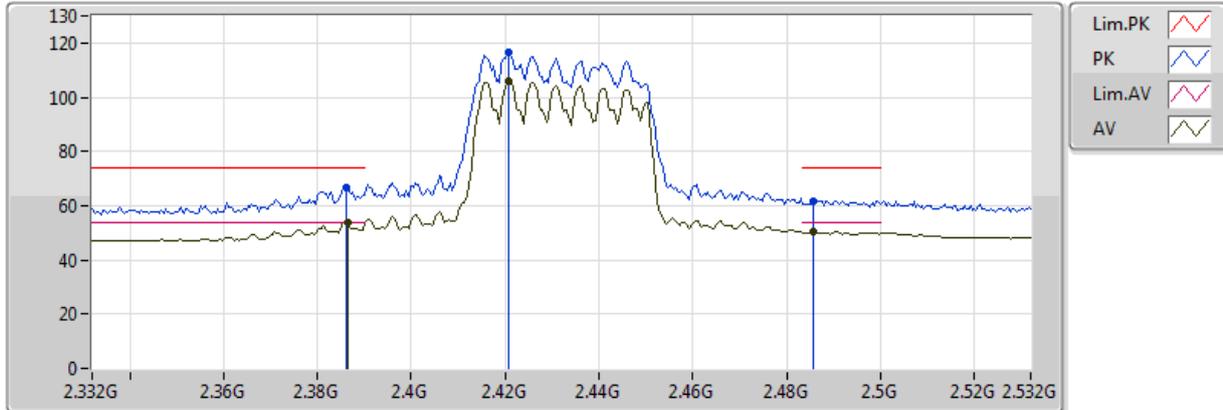
20180122
EUT_Z_4TX TX_Dipole
Setting 72
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3858G	53.66	54.00	-0.34	32.13	3	Vertical	250	1.46
AV	2.4206G	104.82	Inf	-Inf	32.24	3	Vertical	250	1.46
AV	2.4858G	50.19	54.00	-3.81	32.45	3	Vertical	250	1.46
PK	2.3854G	66.41	74.00	-7.59	32.13	3	Vertical	250	1.46
PK	2.4158G	116.70	Inf	-Inf	32.22	3	Vertical	250	1.46
PK	2.485G	63.49	74.00	-10.51	32.45	3	Vertical	250	1.46

802.11ac VHT40_Nss1,(MCS0)_4TX

2432MHz_TX

22/01/2018



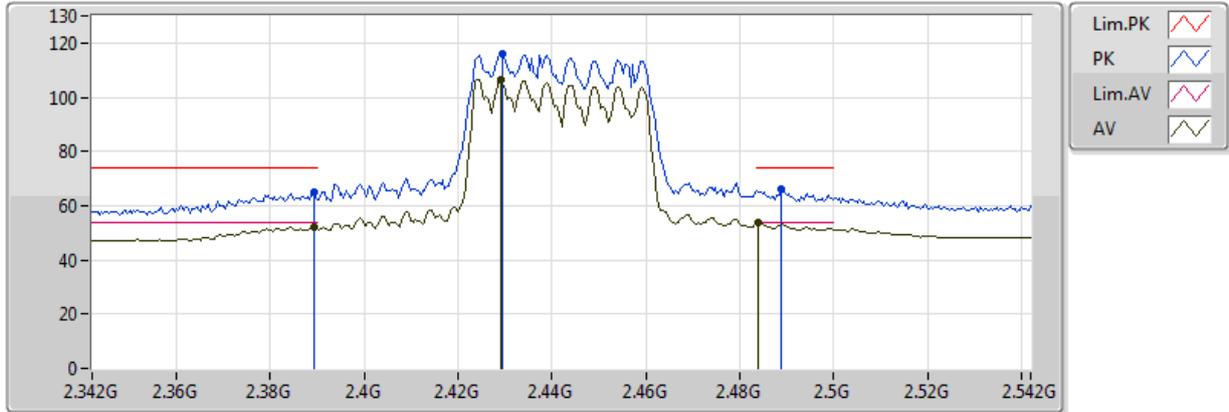
20180122
EUT_Z_4TX TX_Dipole
Setting 72
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3864G	53.74	54.00	-0.26	32.13	3	Vertical	240	1.46
AV	2.4208G	105.99	Inf	-Inf	32.24	3	Vertical	240	1.46
AV	2.4856G	50.64	54.00	-3.36	32.45	3	Vertical	240	1.46
PK	2.386G	66.96	74.00	-7.04	32.13	3	Vertical	240	1.46
PK	2.4208G	116.66	Inf	-Inf	32.24	3	Vertical	240	1.46
PK	2.4856G	61.84	74.00	-12.16	32.45	3	Vertical	240	1.46

802.11ac VHT40_Nss1,(MCS0)_4TX

2442MHz_TX

22/01/2018



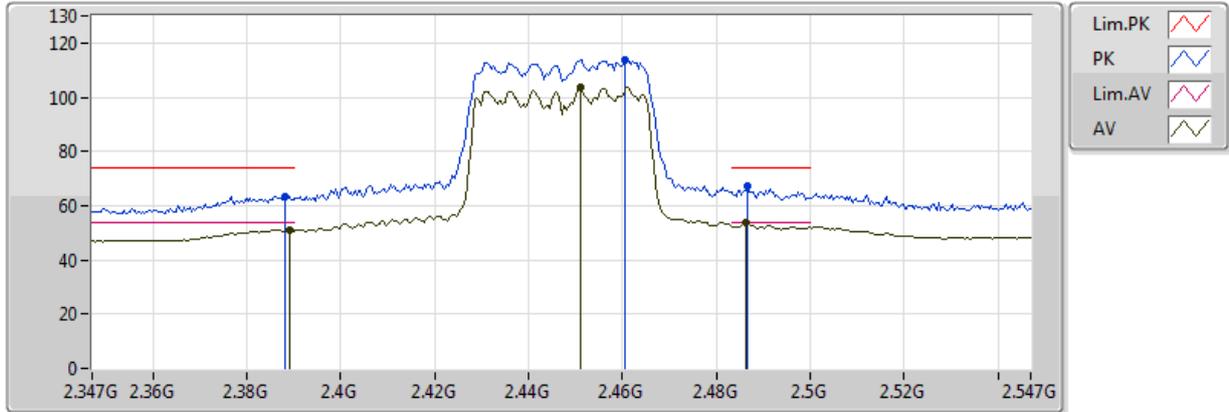
20180122
EUT_Z_4TX TX_Dipole
Setting 73
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3892G	52.13	54.00	-1.87	32.14	3	Vertical	180	1.50
AV	2.4292G	106.72	Inf	-Inf	32.27	3	Vertical	180	1.50
AV	2.484G	53.98	54.00	-0.02	32.45	3	Vertical	180	1.50
PK	2.3892G	64.97	74.00	-9.03	32.14	3	Vertical	180	1.50
PK	2.4296G	116.14	Inf	-Inf	32.27	3	Vertical	180	1.50
PK	2.4888G	66.24	74.00	-7.76	32.46	3	Vertical	180	1.50

802.11ac VHT40_Nss1,(MCS0)_4TX

2447MHz_TX

22/01/2018



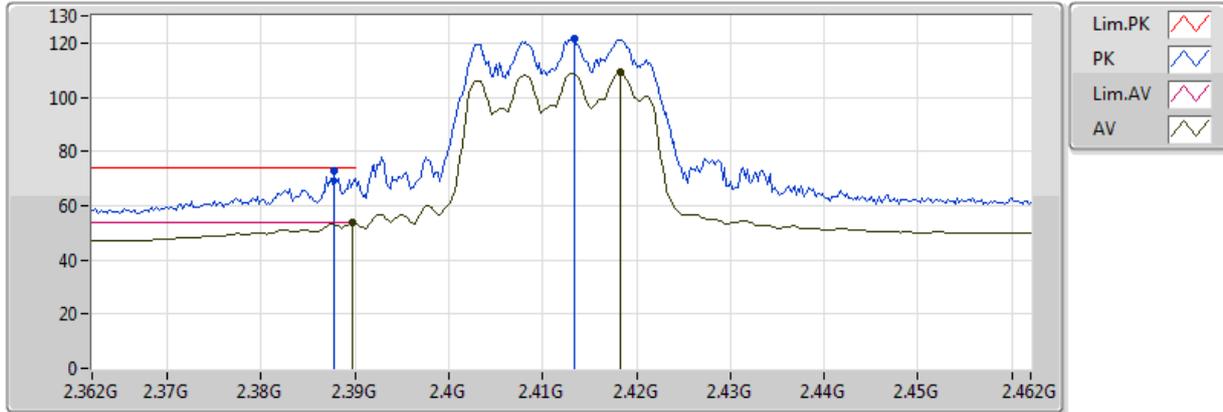
20180122
EUT_Z_4TX TX_Dipole
Setting 73
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389G	51.16	54.00	-2.84	32.14	3	Vertical	246	1.50
AV	2.451G	103.54	Inf	-Inf	32.34	3	Vertical	246	1.50
AV	2.4862G	53.59	54.00	-0.41	32.45	3	Vertical	246	1.50
PK	2.3882G	63.53	74.00	-10.47	32.13	3	Vertical	246	1.50
PK	2.4606G	114.00	Inf	-Inf	32.37	3	Vertical	246	1.50
PK	2.4866G	67.02	74.00	-6.98	32.46	3	Vertical	246	1.50

HE20_Nss1,(MCS0)_4TX

2412MHz_TX

22/01/2018



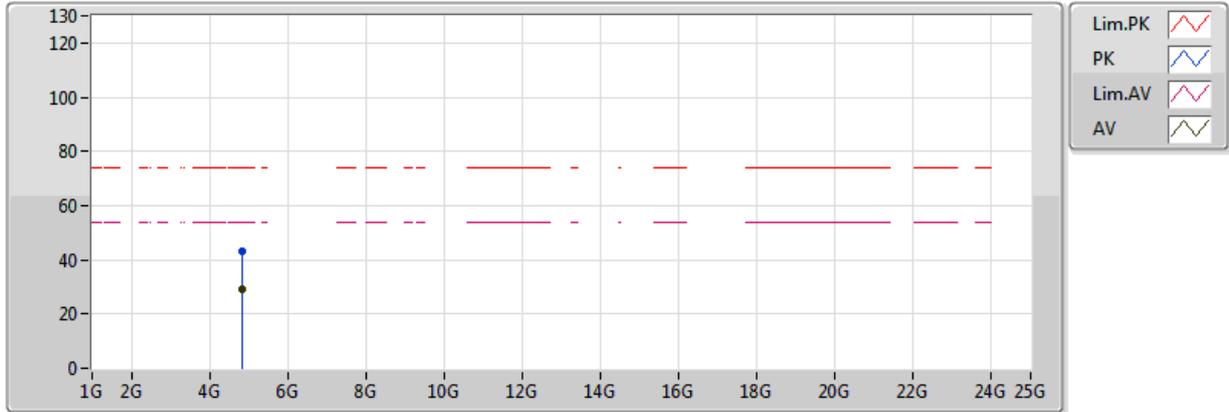
20180122
 EUT_Z_4TX TX_Dipole
 Setting 78
 02-R-5
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3898G	53.58	54.00	-0.42	32.14	3	Vertical	203	2.03
AV	2.4182G	108.99	Inf	-Inf	32.23	3	Vertical	203	2.03
PK	2.3878G	72.58	74.00	-1.42	32.13	3	Vertical	203	2.03
PK	2.4134G	121.87	Inf	-Inf	32.21	3	Vertical	203	2.03

HE20_Nss1,(MCS0)_4TX

2412MHz_TX

23/01/2018



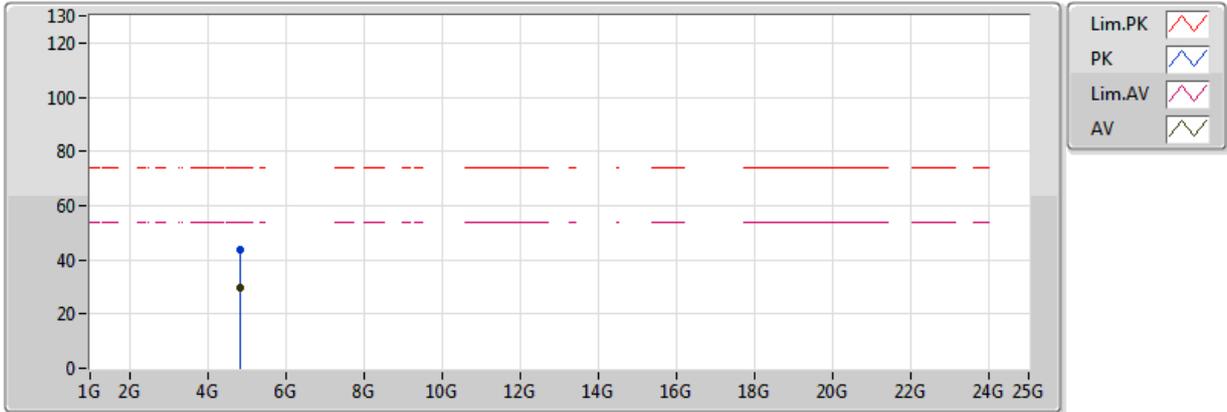
20180123
EUT_Z_4TX TX_Dipole
Setting 78
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82686G	29.17	54.00	-24.83	3.17	3	Vertical	217	1.50
PK	4.82704G	43.31	74.00	-30.69	3.17	3	Vertical	217	1.50

HE20_Nss1,(MCS0)_4TX

2412MHz_TX

23/01/2018



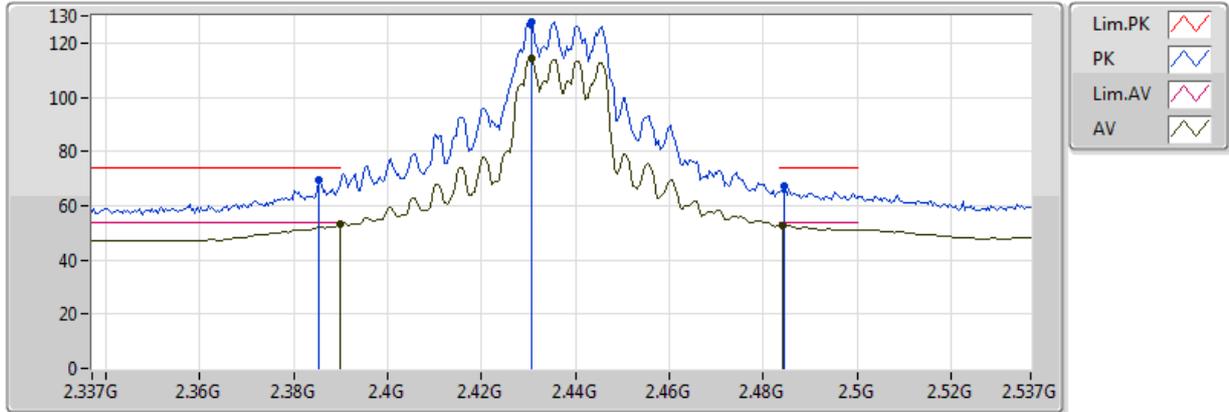
20180123
 EUT_Z_4TX TX_Dipole
 Setting 78
 04-C-4
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82672G	29.95	54.00	-24.05	4.01	3	Horizontal	123	1.50
PK	4.82856G	43.83	74.00	-30.17	4.01	3	Horizontal	123	1.50

HE20_Nss1,(MCS0)_4TX

2437MHz_TX

22/01/2018



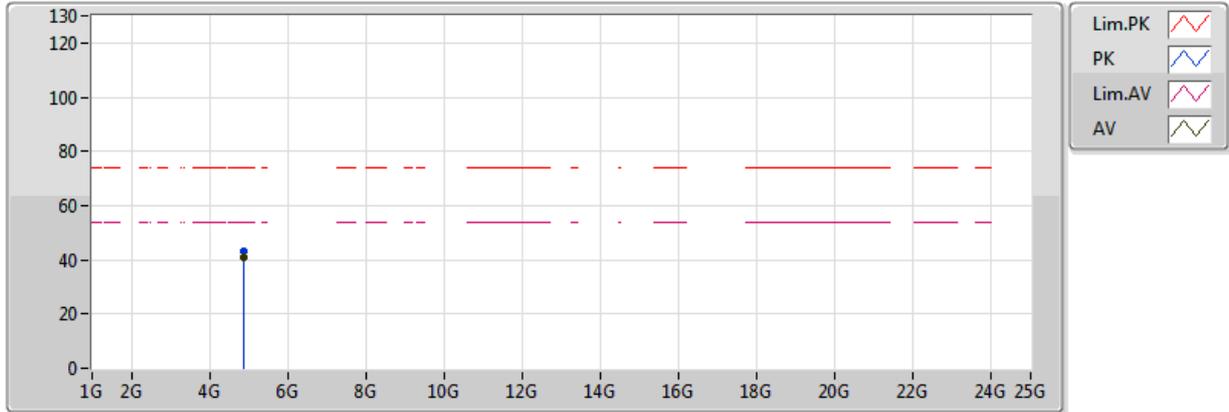
20180122
EUT_Z_4TX TX_Dipole
Setting 100
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	53.40	54.00	-0.60	32.14	3	Vertical	211	1.45
AV	2.4306G	114.44	Inf	-Inf	32.27	3	Vertical	211	1.45
AV	2.4842G	52.76	54.00	-1.24	32.45	3	Vertical	211	1.45
PK	2.3854G	69.35	74.00	-4.65	32.13	3	Vertical	211	1.45
PK	2.4306G	127.90	Inf	-Inf	32.27	3	Vertical	211	1.45
PK	2.4846G	67.35	74.00	-6.65	32.45	3	Vertical	211	1.45

HE20_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



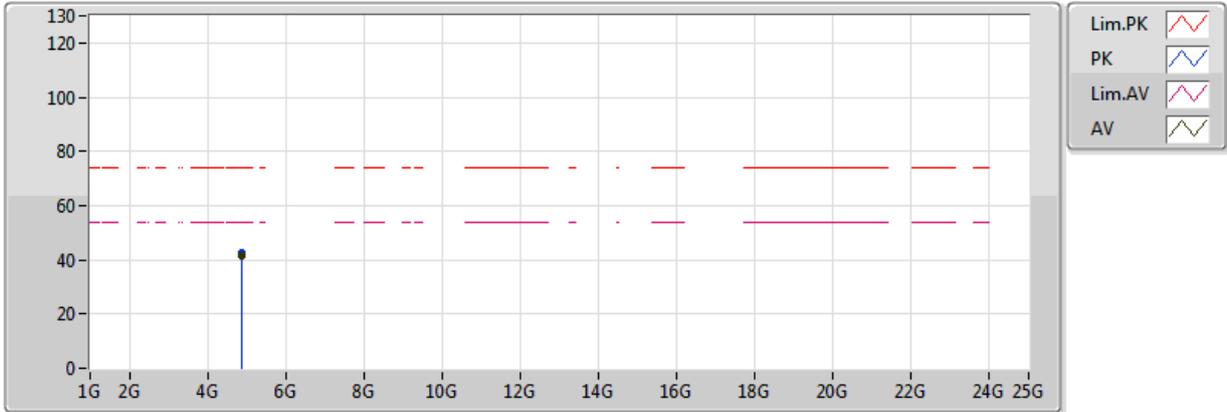
20180123
EUT_Z_4TX TX_Dipole
Setting 100
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.879G	40.88	54.00	-13.12	3.28	3	Vertical	56	2.24
PK	4.87874G	43.21	74.00	-30.79	3.28	3	Vertical	56	2.24

HE20_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



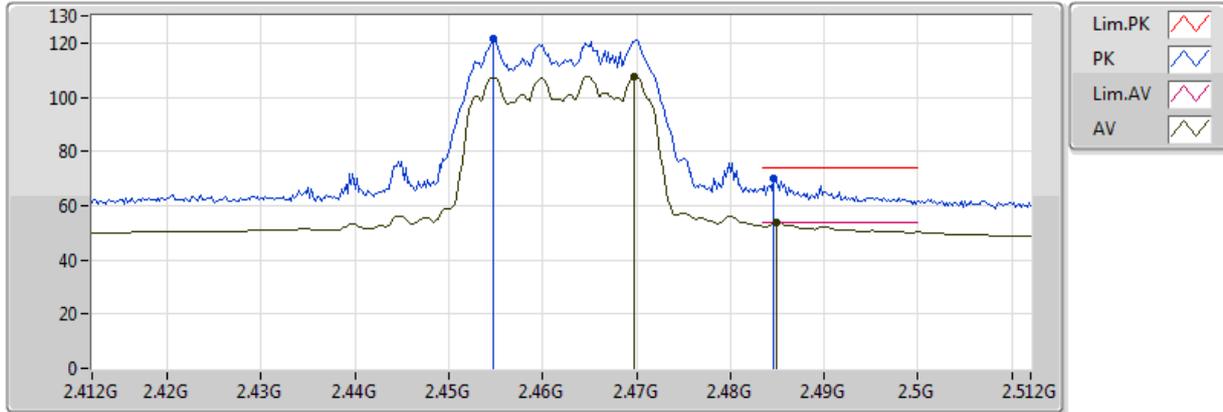
20180123
EUT_Z_4TX TX_Dipole
Setting 100
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87892G	41.53	54.00	-12.47	3.28	3	Horizontal	209	2.74
PK	4.87754G	42.66	74.00	-31.34	3.28	3	Horizontal	209	2.74

HE20_Nss1,(MCS0)_4TX

2462MHz_TX

22/01/2018



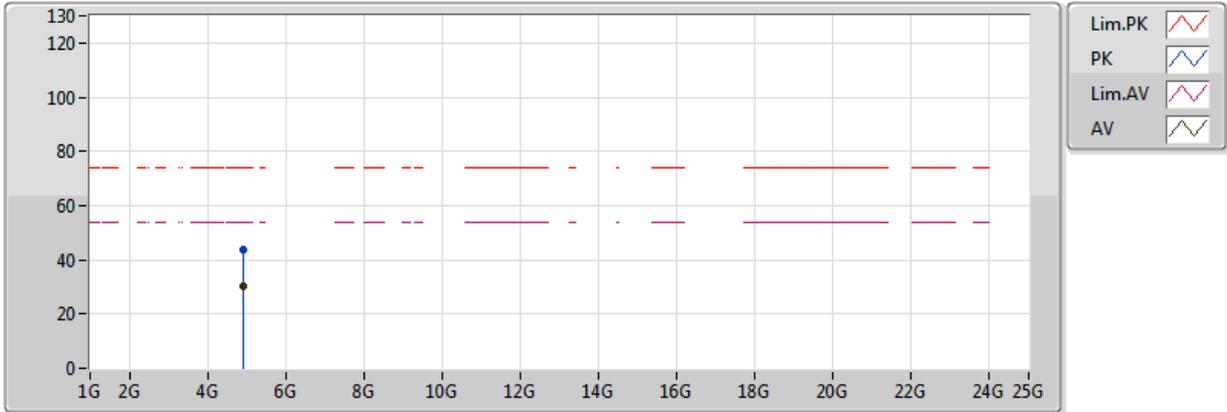
20180122
EUT_Z_4TX TX_Dipole
Setting 77
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4698G	107.78	Inf	-Inf	32.40	3	Vertical	290	1.73
AV	2.485G	53.77	54.00	-0.23	32.45	3	Vertical	290	1.73
PK	2.4548G	121.51	Inf	-Inf	32.35	3	Vertical	290	1.73
PK	2.4846G	70.26	74.00	-3.74	32.45	3	Vertical	290	1.73

HE20_Nss1,(MCS0)_4TX

2462MHz_TX

23/01/2018



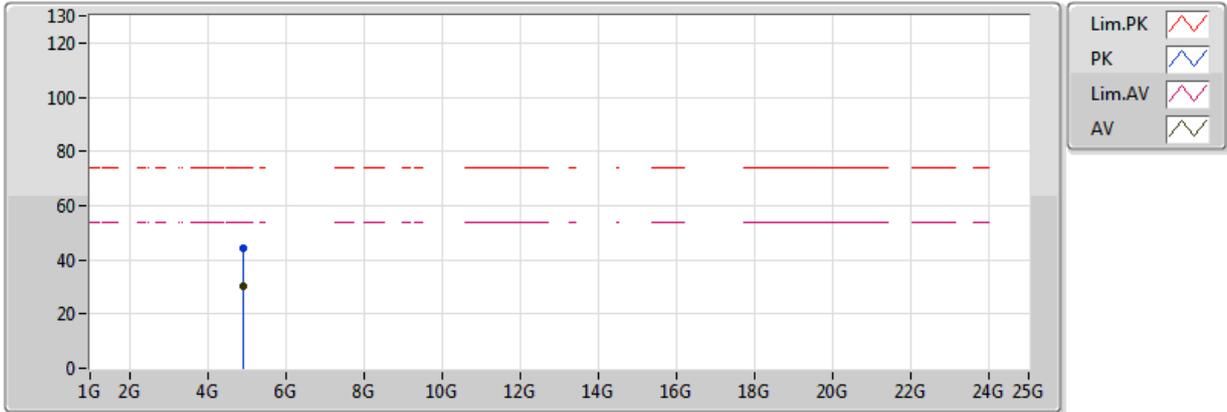
20180123
EUT_Z_4TX TX_Dipole
Setting 77
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92068G	29.98	54.00	-24.02	3.38	3	Vertical	0	1.50
PK	4.92338G	43.79	74.00	-30.21	3.38	3	Vertical	0	1.50

HE20_Nss1,(MCS0)_4TX

2462MHz_TX

23/01/2018



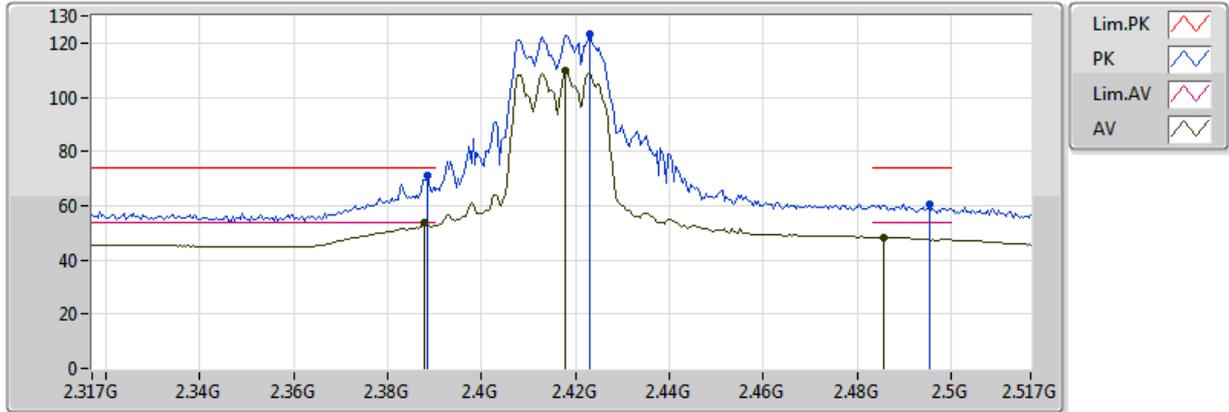
20180123
 EUT_Z_4TX TX_Dipole
 Setting 77
 04-C-4
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92078G	30.00	54.00	-24.00	3.38	3	Horizontal	315	1.50
PK	4.92824G	44.25	74.00	-29.75	3.39	3	Horizontal	315	1.50

HE20_Nss1,(MCS0)_4TX

2417MHz_TX

23/01/2018



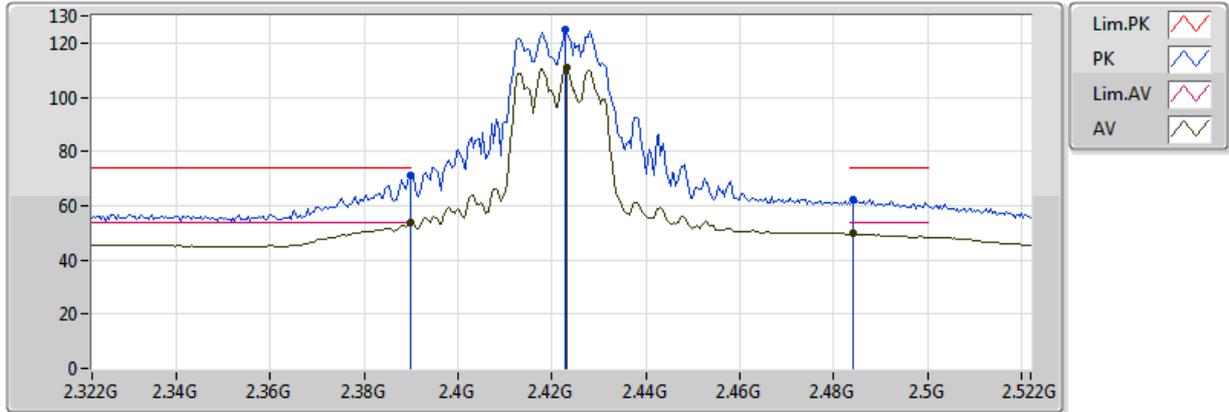
20180123
EUT_Z_4TX TX_Dipole
Setting 84
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3878G	53.62	54.00	-0.38	33.16	3	Vertical	347	1.50
AV	2.4178G	109.67	Inf	-Inf	33.17	3	Vertical	347	1.50
AV	2.4858G	48.45	54.00	-5.55	33.19	3	Vertical	347	1.50
PK	2.3886G	71.35	74.00	-2.65	33.16	3	Vertical	347	1.50
PK	2.423G	123.17	Inf	-Inf	33.17	3	Vertical	347	1.50
PK	2.4954G	60.63	74.00	-13.37	33.19	3	Vertical	347	1.50

HE20_Nss1,(MCS0)_4TX

2422MHz_TX

23/01/2018



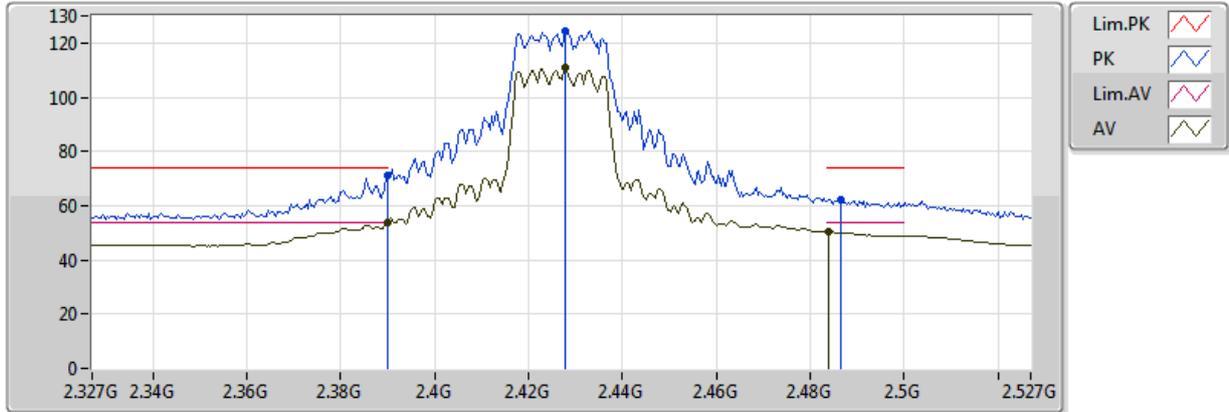
20180123
EUT_Z_4TX TX_Dipole
Setting 88
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	53.68	54.00	-0.32	33.16	3	Vertical	348	1.50
AV	2.4232G	110.97	Inf	-Inf	33.17	3	Vertical	348	1.50
AV	2.484G	49.64	54.00	-4.36	33.19	3	Vertical	348	1.50
PK	2.39G	71.12	74.00	-2.88	33.16	3	Vertical	348	1.50
PK	2.4228G	124.75	Inf	-Inf	33.17	3	Vertical	348	1.50
PK	2.484G	62.46	74.00	-11.54	33.19	3	Vertical	348	1.50

HE20_Nss1,(MCS0)_4TX

2427MHz_TX

23/01/2018



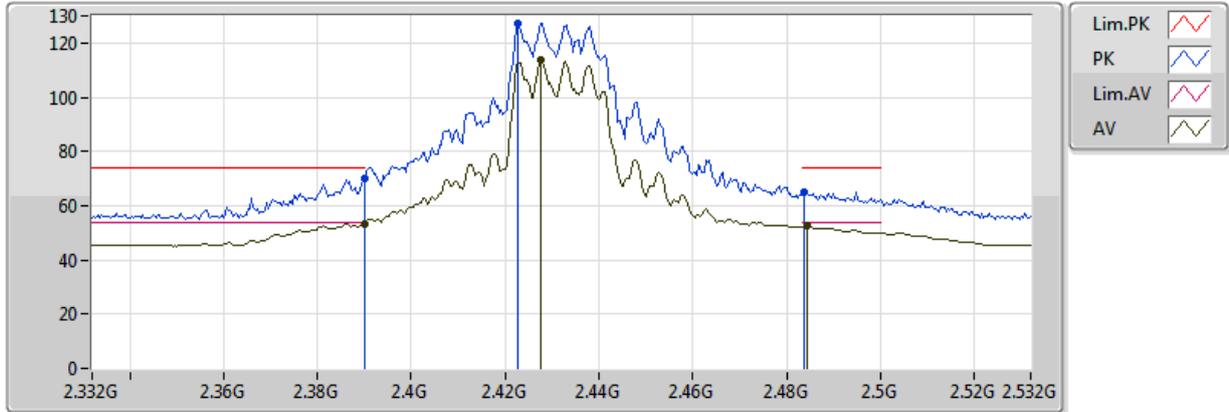
20180123
EUT_Z_4TX TX_Dipole
Setting 95
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	53.89	54.00	-0.11	33.16	3	Vertical	339	1.50
AV	2.4278G	110.77	Inf	-Inf	33.18	3	Vertical	339	1.50
AV	2.4838G	50.57	54.00	-3.43	33.19	3	Vertical	339	1.50
PK	2.389998G	71.05	74.00	-2.95	33.16	3	Vertical	339	1.50
PK	2.4278G	124.61	Inf	-Inf	33.18	3	Vertical	339	1.50
PK	2.4866G	62.40	74.00	-11.60	33.19	3	Vertical	339	1.50

HE20_Nss1,(MCS0)_4TX

2432MHz_TX

23/01/2018



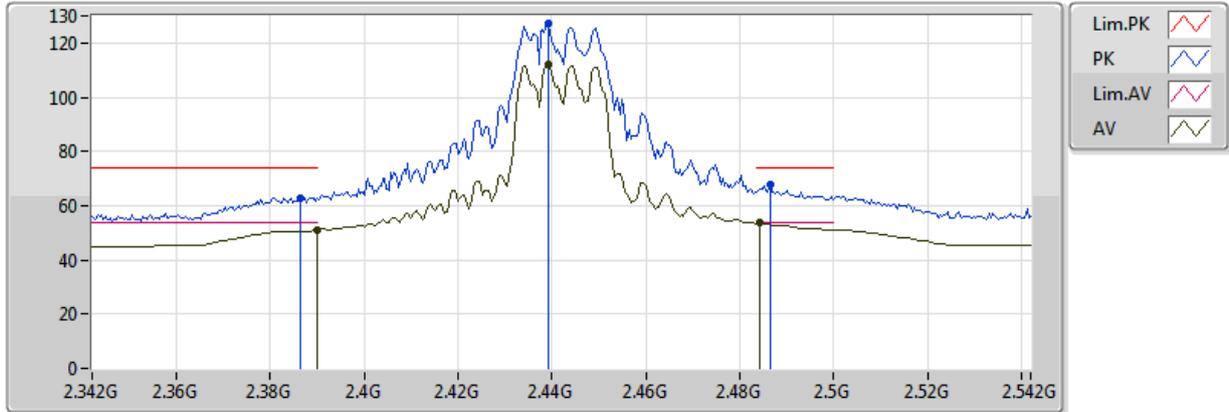
20180123
EUT_Z_4TX TX_Dipole
Setting 100
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	53.33	54.00	-0.67	33.16	3	Vertical	351	1.50
AV	2.4276G	113.48	Inf	-Inf	33.18	3	Vertical	351	1.50
AV	2.4844G	52.49	54.00	-1.51	33.19	3	Vertical	351	1.50
PK	2.39G	69.95	74.00	-4.05	33.16	3	Vertical	351	1.50
PK	2.4228G	127.23	Inf	-Inf	33.17	3	Vertical	351	1.50
PK	2.4836G	64.84	74.00	-9.16	33.19	3	Vertical	351	1.50

HE20_Nss1,(MCS0)_4TX

2442MHz_TX

23/01/2018



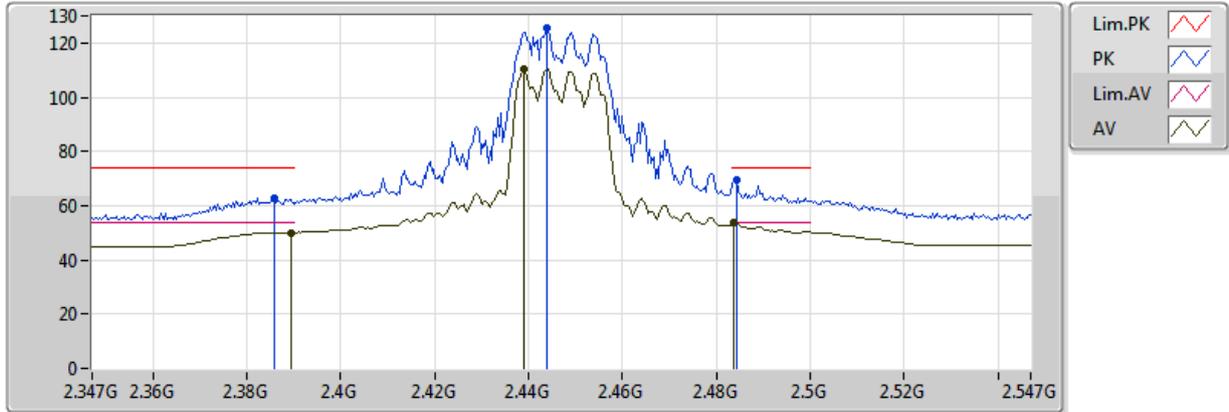
20180123
 EUT_Z_4TX TX_Dipole
 Setting 94
 04-C-4
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	50.90	54.00	-3.10	33.16	3	Vertical	28	1.50
AV	2.4392G	112.03	Inf	-Inf	33.18	3	Vertical	28	1.50
AV	2.4844G	53.91	54.00	-0.09	33.19	3	Vertical	28	1.50
PK	2.3864G	62.91	74.00	-11.09	33.16	3	Vertical	28	1.50
PK	2.4392G	127.37	Inf	-Inf	33.18	3	Vertical	28	1.50
PK	2.4864G	67.62	74.00	-6.38	33.19	3	Vertical	28	1.50

HE20_Nss1,(MCS0)_4TX

2447MHz_TX

23/01/2018



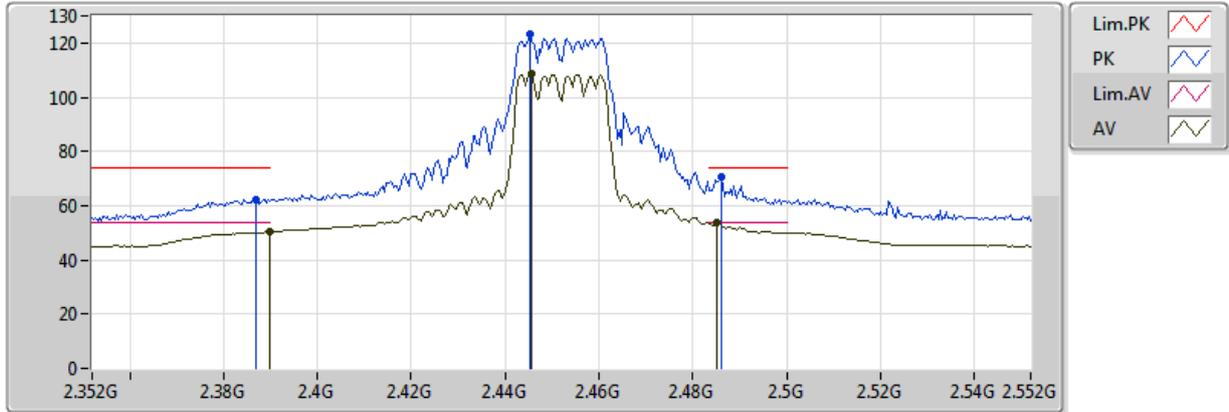
20180123
EUT_Z_4TX TX_Dipole
Setting 89
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3894G	50.05	54.00	-3.95	33.16	3	Vertical	328	1.50
AV	2.439G	110.35	Inf	-Inf	33.18	3	Vertical	328	1.50
AV	2.4838G	53.58	54.00	-0.42	33.19	3	Vertical	328	1.50
PK	2.3858G	62.89	74.00	-11.11	33.16	3	Vertical	328	1.50
PK	2.4438G	125.28	Inf	-Inf	33.18	3	Vertical	328	1.50
PK	2.4842G	69.55	74.00	-4.45	33.19	3	Vertical	328	1.50

HE20_Nss1,(MCS0)_4TX

2452MHz_TX

23/01/2018



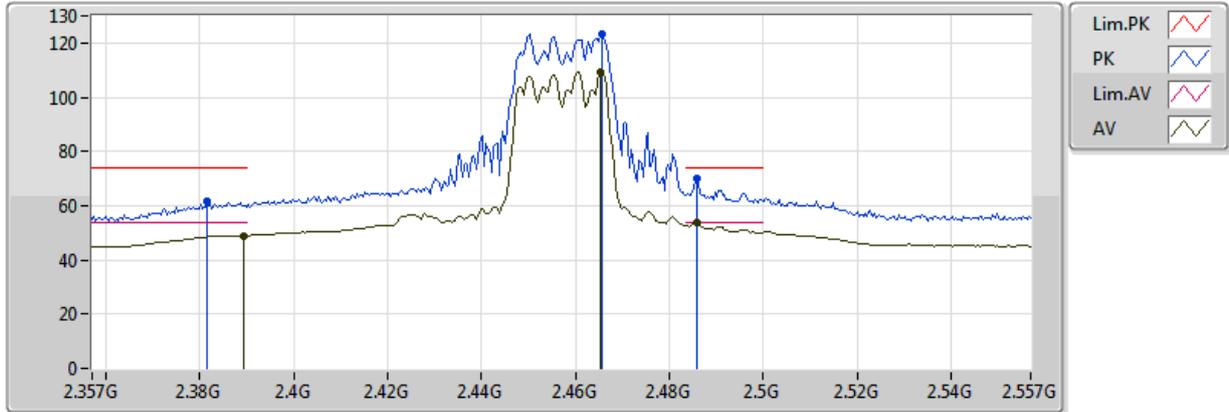
20180123
EUT_Z_4TX TX_Dipole
Setting 89
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	50.30	54.00	-3.70	33.16	3	Vertical	338	1.50
AV	2.445G	108.45	Inf	-Inf	33.18	3	Vertical	338	1.50
AV	2.485G	53.59	54.00	-0.41	33.19	3	Vertical	338	1.50
PK	2.3868G	62.35	74.00	-11.65	33.16	3	Vertical	338	1.50
PK	2.4452G	123.02	Inf	-Inf	33.18	3	Vertical	338	1.50
PK	2.486G	70.53	74.00	-3.47	33.19	3	Vertical	338	1.50

HE20_Nss1,(MCS0)_4TX

2457MHz_TX

23/01/2018



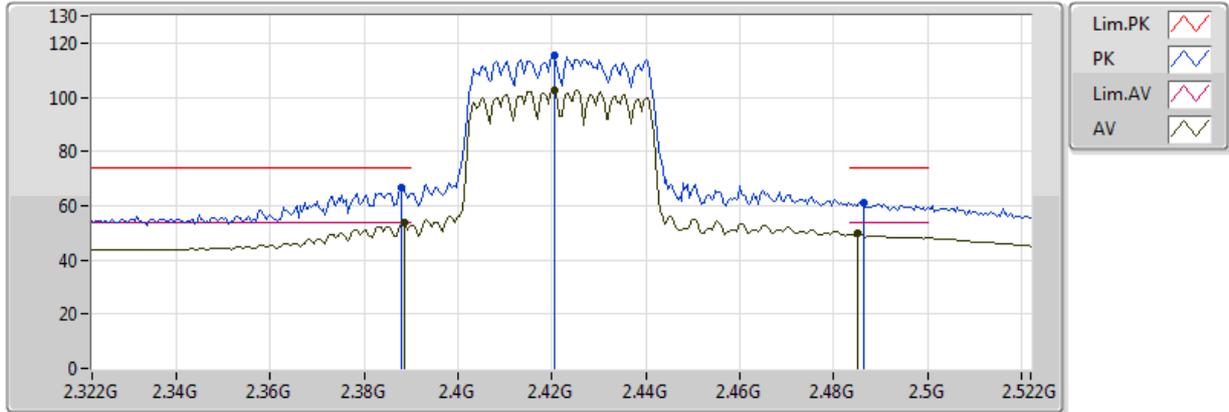
20180123
EUT_Z_4TX TX_Dipole
Setting 82
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3894G	48.87	54.00	-5.13	33.16	3	Vertical	26	1.90
AV	2.4654G	109.51	Inf	-Inf	33.18	3	Vertical	26	1.90
AV	2.4858G	53.85	54.00	-0.15	33.19	3	Vertical	26	1.90
PK	2.3814G	61.71	74.00	-12.29	33.16	3	Vertical	26	1.90
PK	2.4658G	123.22	Inf	-Inf	33.18	3	Vertical	26	1.90
PK	2.4858G	69.85	74.00	-4.15	33.19	3	Vertical	26	1.90

HE40_Nss1,(MCS0)_4TX

2422MHz_TX

22/01/2018



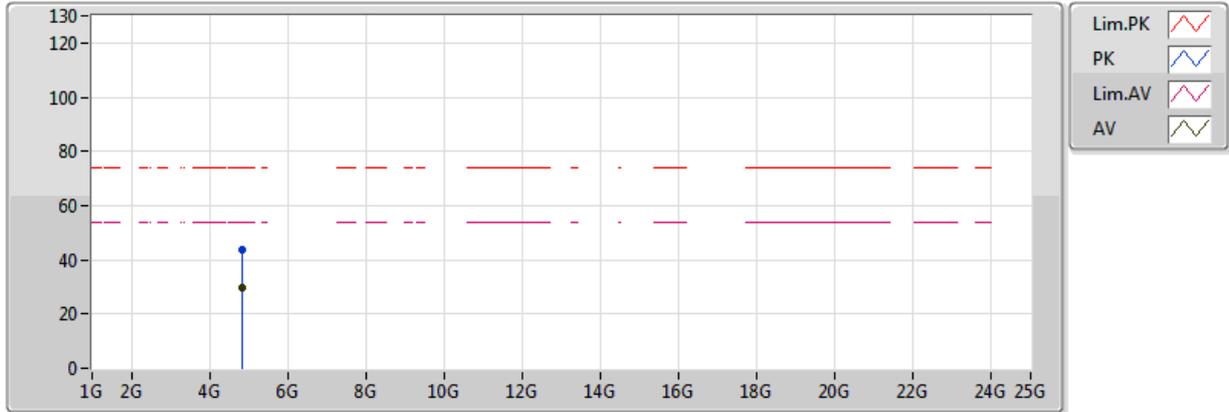
20180122
EUT_Z_4_TX_Dipole
Setting 71
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3884G	53.52	54.00	-0.48	32.11	3	Vertical	31	1.44	-
AV	2.4204G	102.44	Inf	-Inf	32.22	3	Vertical	31	1.44	-
AV	2.4852G	49.62	54.00	-4.38	32.43	3	Vertical	31	1.44	-
PK	2.388G	66.74	74.00	-7.26	32.11	3	Vertical	31	1.44	-
PK	2.4204G	115.61	Inf	-Inf	32.22	3	Vertical	31	1.44	-
PK	2.4864G	61.10	74.00	-12.90	32.43	3	Vertical	31	1.44	-

HE40_Nss1,(MCS0)_4TX

2422MHz_TX

23/01/2018



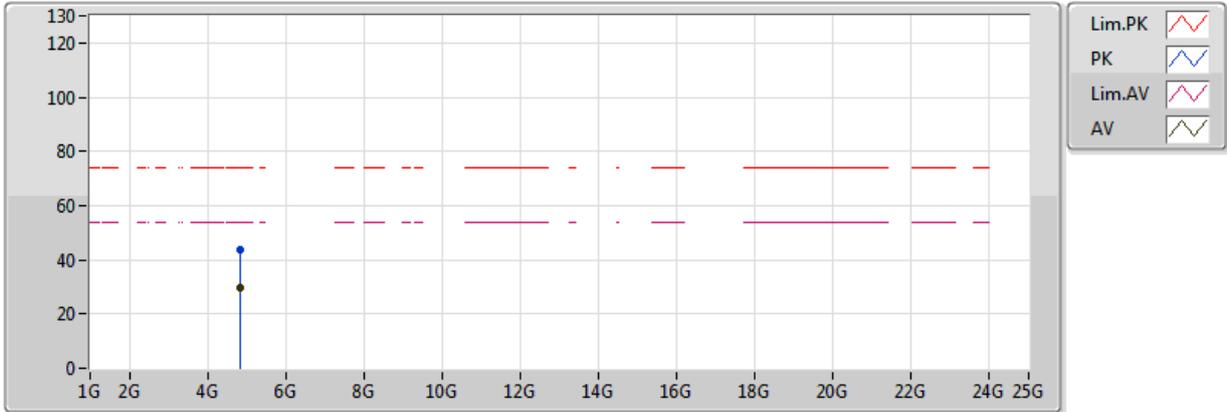
20180123
EUT_Z_4TX TX_Dipole
Setting 71
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.84186G	29.50	54.00	-24.50	3.20	3	Vertical	283	1.50
PK	4.83958G	43.53	74.00	-30.47	3.20	3	Vertical	283	1.50

HE40_Nss1,(MCS0)_4TX

2422MHz_TX

23/01/2018



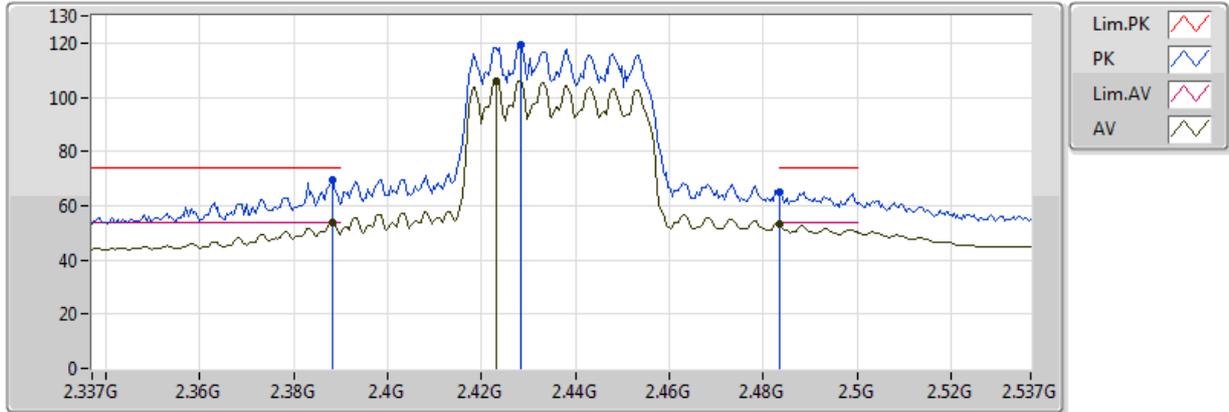
20180123
EUT_Z_4TX TX_Dipole
Setting 71
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.84202G	29.44	54.00	-24.56	3.20	3	Horizontal	62	1.50
PK	4.84272G	43.81	74.00	-30.19	3.20	3	Horizontal	62	1.50

HE40_Nss1,(MCS0)_4TX

2437MHz_TX

22/01/2018



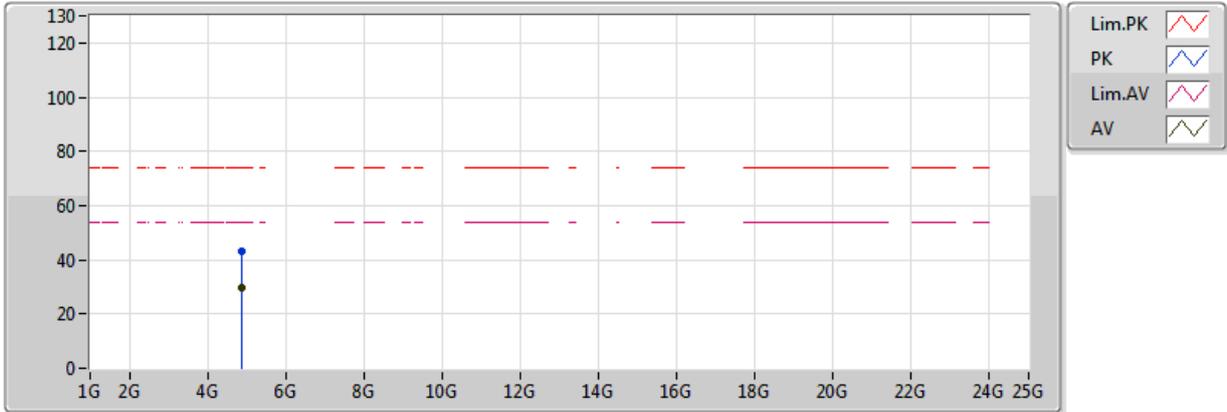
20180122
EUT_Z_4_TX_Dipole
Setting 75
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3882G	53.92	54.00	-0.08	32.11	3	Vertical	24	1.54	-
AV	2.423G	105.77	Inf	-Inf	32.22	3	Vertical	24	1.54	-
AV	2.483502G	53.47	54.00	-0.53	32.42	3	Vertical	24	1.54	-
PK	2.3882G	69.45	74.00	-4.55	32.11	3	Vertical	24	1.54	-
PK	2.4282G	119.32	Inf	-Inf	32.24	3	Vertical	24	1.54	-
PK	2.483502G	65.17	74.00	-8.83	32.42	3	Vertical	24	1.54	-

HE40_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



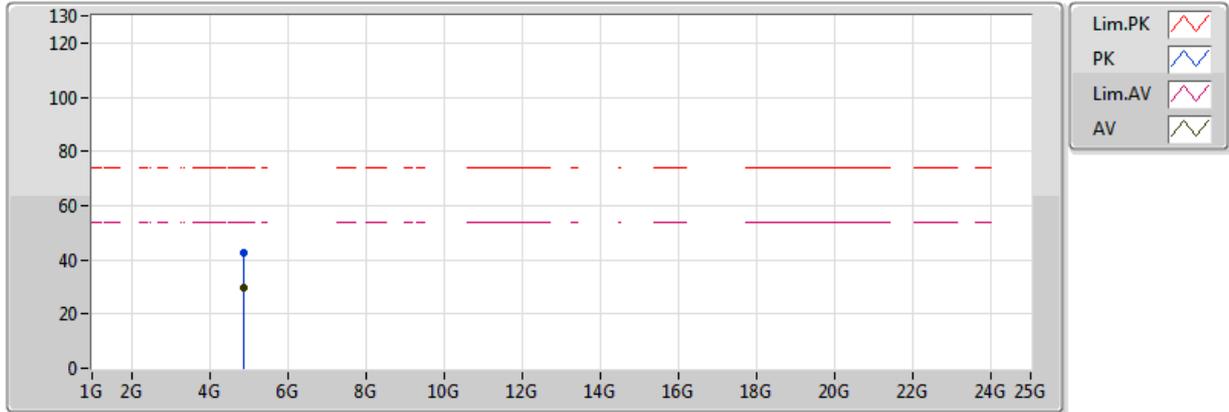
20180123
 EUT_Z_4TX TX_Dipole
 Setting 75
 04-C-4
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.8779G	29.56	54.00	-24.44	3.28	3	Vertical	164	1.42
PK	4.87046G	43.26	74.00	-30.74	3.27	3	Vertical	164	1.42

HE40_Nss1,(MCS0)_4TX

2437MHz_TX

23/01/2018



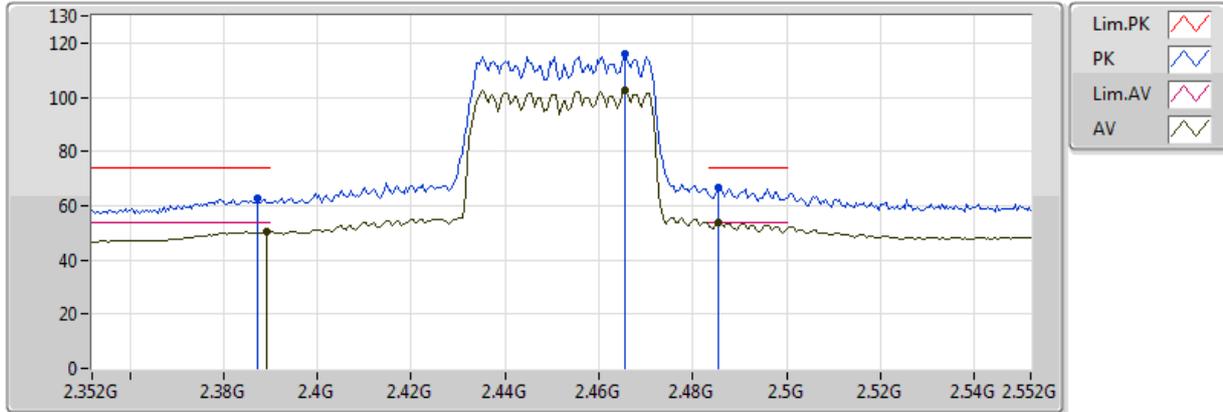
20180123
EUT_Z_4TX TX_Dipole
Setting 75
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87296G	29.44	54.00	-24.56	3.27	3	Horizontal	200	1.50
PK	4.8695G	42.59	74.00	-31.41	3.26	3	Horizontal	200	1.50

HE40_Nss1,(MCS0)_4TX

2452MHz_TX

22/01/2018



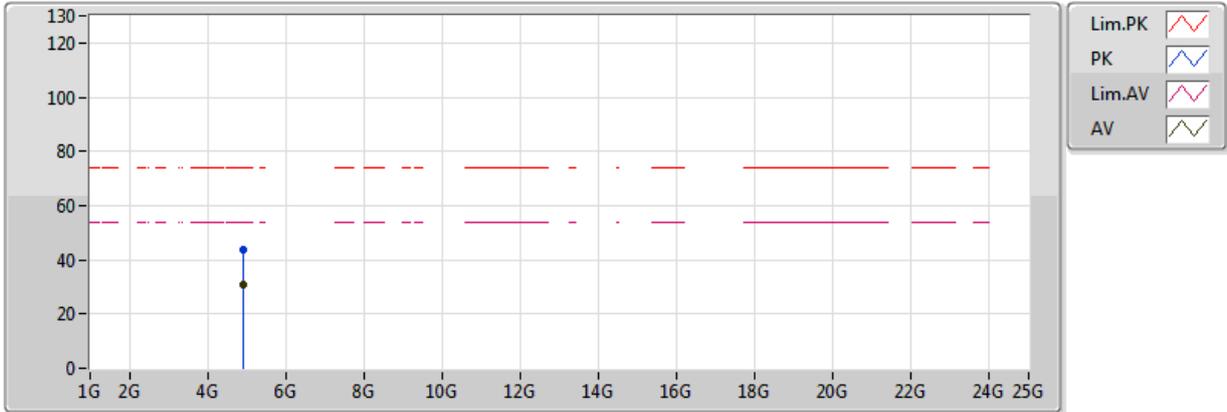
20180122
EUT_Z_4TX TX_Dipole
Setting 70
02-R-5
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3892G	50.45	54.00	-3.55	32.14	3	Vertical	307	1.84
AV	2.4656G	102.40	Inf	-Inf	32.39	3	Vertical	307	1.84
AV	2.4856G	53.93	54.00	-0.07	32.45	3	Vertical	307	1.84
PK	2.3872G	62.55	74.00	-11.45	32.13	3	Vertical	307	1.84
PK	2.4656G	116.25	Inf	-Inf	32.39	3	Vertical	307	1.84
PK	2.4856G	66.66	74.00	-7.34	32.45	3	Vertical	307	1.84

HE40_Nss1,(MCS0)_4TX

2452MHz_TX

23/01/2018



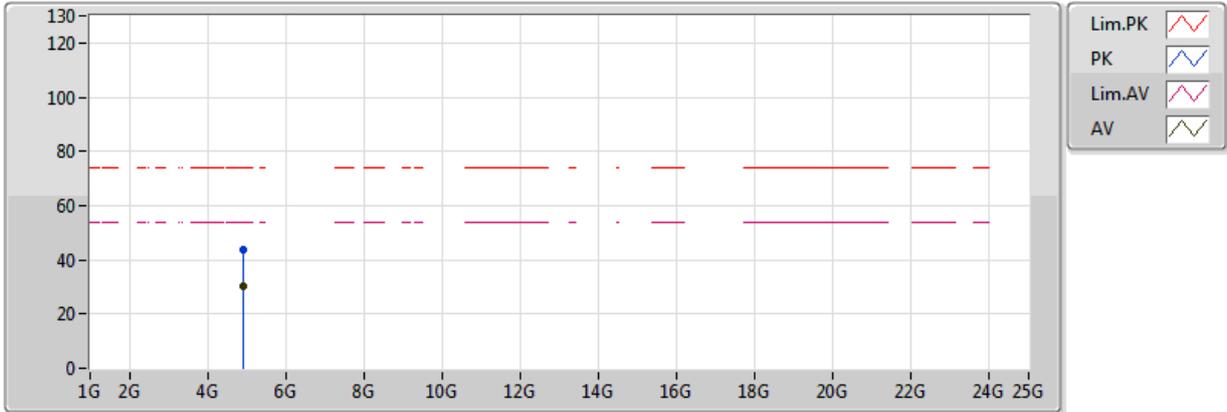
20180123
EUT_Z_4TX TX_Dipole
Setting 70
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.90546G	30.65	54.00	-23.35	3.34	3	Vertical	57	1.50
PK	4.90616G	43.63	74.00	-30.37	3.34	3	Vertical	57	1.50

HE40_Nss1,(MCS0)_4TX

2452MHz_TX

23/01/2018



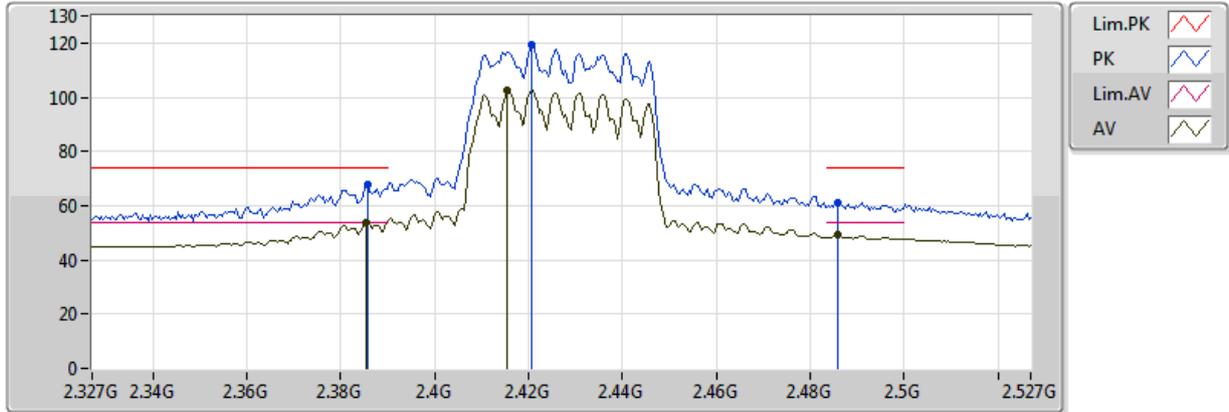
20180123
EUT_Z_4TX TX_Dipole
Setting 70
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.90814G	30.41	54.00	-23.59	3.35	3	Horizontal	148	1.82
PK	4.90786G	43.77	74.00	-30.23	3.35	3	Horizontal	148	1.82

HE40_Nss1,(MCS0)_4TX

2427MHz_TX

24/01/2018



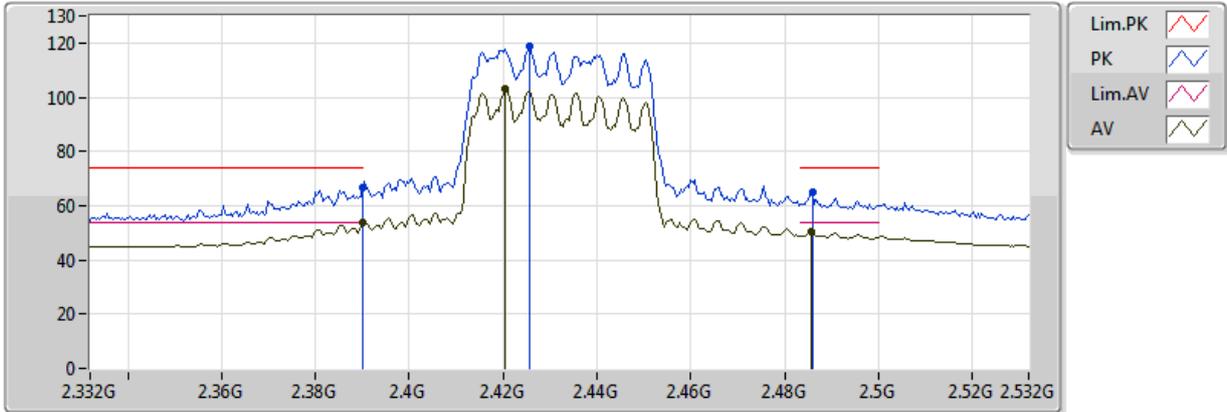
20180123
EUT_Z_4TX TX_Dipole
Setting 72
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3854G	53.99	54.00	-0.01	33.16	3	Vertical	17	1.78
AV	2.4154G	102.70	Inf	-Inf	33.17	3	Vertical	17	1.78
AV	2.4858G	49.28	54.00	-4.72	33.19	3	Vertical	17	1.78
PK	2.3858G	67.58	74.00	-6.42	33.16	3	Vertical	17	1.78
PK	2.4206G	119.16	Inf	-Inf	33.17	3	Vertical	17	1.78
PK	2.4858G	61.23	74.00	-12.77	33.19	3	Vertical	17	1.78

HE40_Nss1,(MCS0)_4TX

2432MHz_TX

24/01/2018



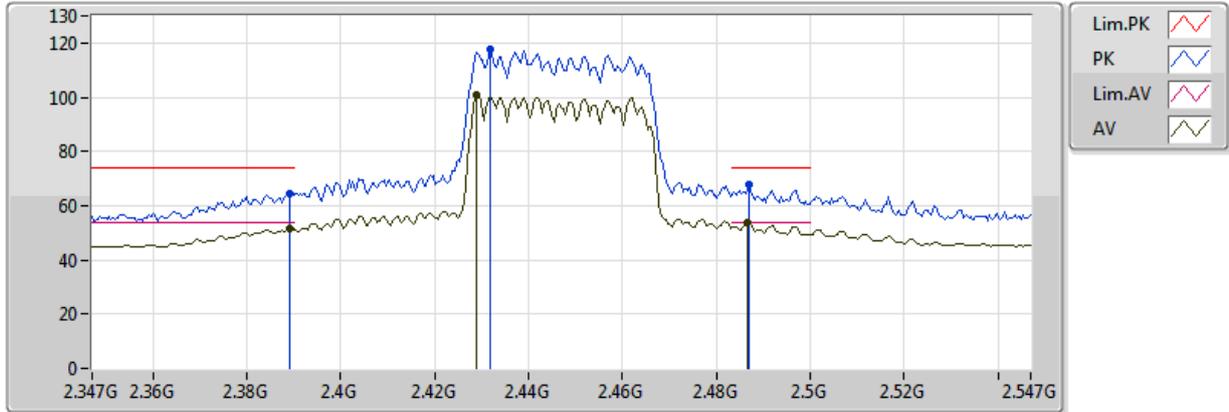
20180123
EUT_Z_4TX TX_Dipole
Setting 70
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	53.86	54.00	-0.14	33.16	3	Vertical	22	1.75
AV	2.4204G	103.04	Inf	-Inf	33.17	3	Vertical	22	1.75
AV	2.4856G	50.36	54.00	-3.64	33.19	3	Vertical	22	1.75
PK	2.39G	66.67	74.00	-7.33	33.16	3	Vertical	22	1.75
PK	2.4256G	118.65	Inf	-Inf	33.18	3	Vertical	22	1.75
PK	2.486G	64.94	74.00	-9.06	33.19	3	Vertical	22	1.75

HE40_Nss1,(MCS0)_4TX

2447MHz_TX

24/01/2018



20180123
EUT_Z_4TX TX_Dipole
Setting 74
04-C-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389G	51.76	54.00	-2.24	33.16	3	Vertical	320	1.81
AV	2.429G	101.12	Inf	-Inf	33.18	3	Vertical	320	1.81
AV	2.4866G	53.66	54.00	-0.34	33.19	3	Vertical	320	1.81
PK	2.389G	64.45	74.00	-9.55	33.16	3	Vertical	320	1.81
PK	2.4318G	117.68	Inf	-Inf	33.18	3	Vertical	320	1.81
PK	2.487G	67.57	74.00	-6.43	33.19	3	Vertical	320	1.81

