

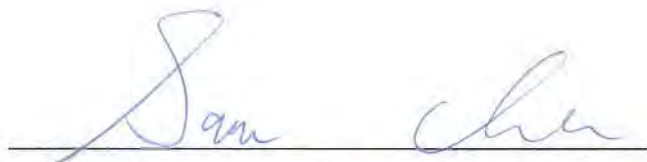
NCC RADIO TEST REPORT

Equipment : 雙頻無線接入點
Brand Name : UBIQUITI
Model Name : UAP-AC-SHD
Applicant : 香港商優比快科技有限公司台灣分公司
臺北市信義區松仁路 107 號 12 樓
Manufacturer : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York, New York
10017 USA
Standard : LP0002 Section 3.10.1 (2018-01-10)

The product was received on Jun. 17, 2016, and testing was started from Jun. 24, 2019 and completed on Aug. 06, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	8
2 Test Configuration of EUT	9
2.1 Test Channel Mode	9
2.2 The Worst Case Measurement Configuration.....	10
2.3 EUT Operation during Test	12
2.4 Accessories	12
2.5 Support Equipment.....	13
2.6 Test Setup Diagram	14
3 Transmitter Test Result	19
3.1 AC Power-line Conducted Emissions	19
3.2 DTS Bandwidth	21
3.3 Maximum Conducted Output Power	22
3.4 Power Spectral Density	25
3.5 Emissions in Non-restricted Frequency Bands	27
3.6 Emissions in Restricted Frequency Bands.....	28
4 Test Equipment and Calibration Data	34
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	3.10.1.4	Antenna Requirement	PASS	-
3.1	2.3	AC Power-line Conducted Emissions	PASS	-
3.2	3.10.1.6	DTS Bandwidth	PASS	-
3.3	3.10.1.2	Maximum Conducted Output Power	PASS	-
3.4	3.10.1.6	Power Spectral Density	PASS	-
3.5	3.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	3.10.1.5	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

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

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Viola Huang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40	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	VHT20	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	VHT40	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 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

For 2.4GHz WLAN function

Ant.	Port	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)
1	1	-	-	PIFA Antenna	N/A	6
2	2	-	-	PIFA Antenna	N/A	6
3	3	-	-	PIFA Antenna	N/A	6
4	4	-	-	PIFA Antenna	N/A	6

For 5GHz WLAN function

Ant.	Port	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)
5	1	-	-	PIFA Antenna	N/A	6
6	2	-	-	PIFA Antenna	N/A	6
7	3	-	-	PIFA Antenna	N/A	6
8	4	-	-	PIFA Antenna	N/A	6

For Bluetooth function

Ant.	Port	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)
9	1	-	-	PIFA Antenna	N/A	1

For RX function

Ant.	Port	Brand	Model Name	Antenna Type	Connector	RX Gain (dBi)	
						2.4GHz	5GHz
10	1	-	-	PIFA Antenna	N/A	1	2

Note: The above information was declared by manufacturer.

Note: The EUT has ten antennas.

For 2.4GHz WLAN function

IEEE 802.11b/g/n/ac mode (4TX/4RX): The module has four ports.

Port 1, port 2, port 3 and port 4 can be used as transmitting/receiving antenna.

Port 1, port 2, port 3 and port 4 could transmit/receive simultaneously.

For 5GHz WLAN function

IEEE 802.11a/n/ac mode (4TX/4RX): The module has four ports.

Port 1, port 2, port 3 and port 4 can be used as transmitting/receiving antenna.

Port 1, port 2, port 3 and port 4 could transmit/receive simultaneously.

For Bluetooth function: The module has one port only.

Port 1 can be used as transmitting/receiving antenna.

For RX function (scan radio): The module has one port only.

Only Port 1 can be used as receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.996	0.02	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.968	0.14	2.068m	1k
VHT20	0.987	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT40	0.974	0.11	2.444m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	Note: The product has beamforming function for 802.11n/ac in 5GHz.			
Function	☒	Point-to-multipoint	☒	Point-to-point
Test Software Version	QSPR(v5.0-00057) 、QRCT(v3.0.197.0)			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ NCC LP0002 (2018-01-10)
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	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	Eddie Weng	27-28.6°C / 61~65%	Jul. 03, 2019
Radiated (Below 1GHz: Intentional-CTX / Unintentional-CRX)	03CH03-HY	Justin Pan	19.9~25.6°C / 50.2~54.6%	Jul. 29, 2019~Jul. 30, 2019
Radiated (Above 1GHz: Unintentional 1GHz~5 th -CRX)	03CH05-CB	Cola Fan	26.3~27.2°C / 61~65%	Jul. 26, 2019~Aug. 05, 2019
Radiated (Above 1GHz: Intentional 1GHz~10 th -CTX)	03CH05-CB	Cola Fan	25.1~26.5°C / 61~66%	Jun. 24, 2019~Jul. 02, 2019
AC Conduction (Intentional-CTX / Unintentional-CRX)	CO01-CB	Max Lin	23.9~24.3°C / 58~59%	Jul. 16, 2019~Aug. 06, 2019

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086B with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	20.5
2437MHz	20.5
2462MHz	20
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	17
2437MHz	19.5
2462MHz	17.5
VHT20_Nss1,(MCS0)_4TX	-
2412MHz	17.5
2437MHz	20.5
2462MHz	17.5
VHT40_Nss1,(MCS0)_4TX	-
2422MHz	15.5
2437MHz	17.5
2452MHz	16.5

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- ♦ The EUT supports P to M and P to P operating mode. After evaluating, the P to M is the worst operating mode. And it was tested and recorded in the report

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	Intentional-CTX
1	EUT + 2.4GHz
2	EUT + 5GHz
3	EUT + Bluetooth
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode	Unintentional-CRX
1	EUT + 2.4GHz
2	EUT + 5GHz
3	EUT + Bluetooth
4	EUT + RX (scan radio_2.4GHz) function
5	EUT + RX (scan radio_5GHz) function
For operating mode 5 is the worst case and it was record in this test report.	

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

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.
For 2.4GHz / 5GHz / RX (scan radio_2.4GHz) function The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, thus the measurement will follow this same test configuration.	
For Bluetooth / RX (scan radio_5GHz) function The EUT was performed at Y axis and Z axis position. The worst case was found at Y axis, thus the measurement will follow this same test configuration.	
Operating Mode < 1GHz	Intentional-CTX
1	EUT in Z axis + 2.4GHz
2	EUT in Z axis + 5GHz
3	EUT in Y axis + Bluetooth
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode < 1GHz	Unintentional-CRX
1	EUT in Z axis + 2.4GHz
2	EUT in Z axis + 5GHz
3	EUT in Y axis + Bluetooth
4	EUT in Z axis + RX (scan radio_2.4GHz) function
5	EUT in Y axis + RX (scan radio_5GHz) function
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode Unintentional 1GHz~5th Harmonic	Unintentional-CRX
For 2.4GHz / 5GHz / RX (scan radio_2.4GHz) function The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, thus the measurement will follow this same test configuration.	
For Bluetooth / RX (scan radio_5GHz) function The EUT was performed at Y axis and Z axis position. The worst case was found at Y axis, thus the measurement will follow this same test configuration.	
1	EUT in Z axis + 2.4GHz
2	EUT in Z axis + 5GHz
3	EUT in Y axis + Bluetooth
4	EUT in Z axis + RX (scan radio_2.4GHz) function
5	EUT in Y axis + RX (scan radio_5GHz) function
For operating mode 2 is the worst case and it was record in this test report.	



Operating Mode Intentional 1GHz~10th Harmonic	Intentional-CTX
The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, thus the measurement will follow this same test configuration.	
1	EUT in Z axis

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting/receiving mode.

2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	P/N	Rating
PoE	UBIQUITI	GP-H480-050G	POE-48-24 W-G-WH	Input: 100-240V~50/60Hz, MAX 0.75A(0.75A) Output: 48V, 0.5A(0.5A)
Others				
Equipment Name	Brand Name	Model Name	Remark	
Power cable*1	UBIQUITI	CH-1902+CH-1106	Non-shielded, 0.6m	
Cradle*1 (plastic)				
Cradle*1 (iron)				



2.5 Support Equipment

For AC Conduction (Intentional-CTX / Unintentional-CRX)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN Notebook	DELL	E6430	N/A

For Radiated (Below 1GHz: Intentional-CTX / Unintentional-CRX)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E5520	N/A

For Radiated (Above 1GHz: Unintentional 1GHz~5th-CRX / Intentional 1GHz~10th-CTX)

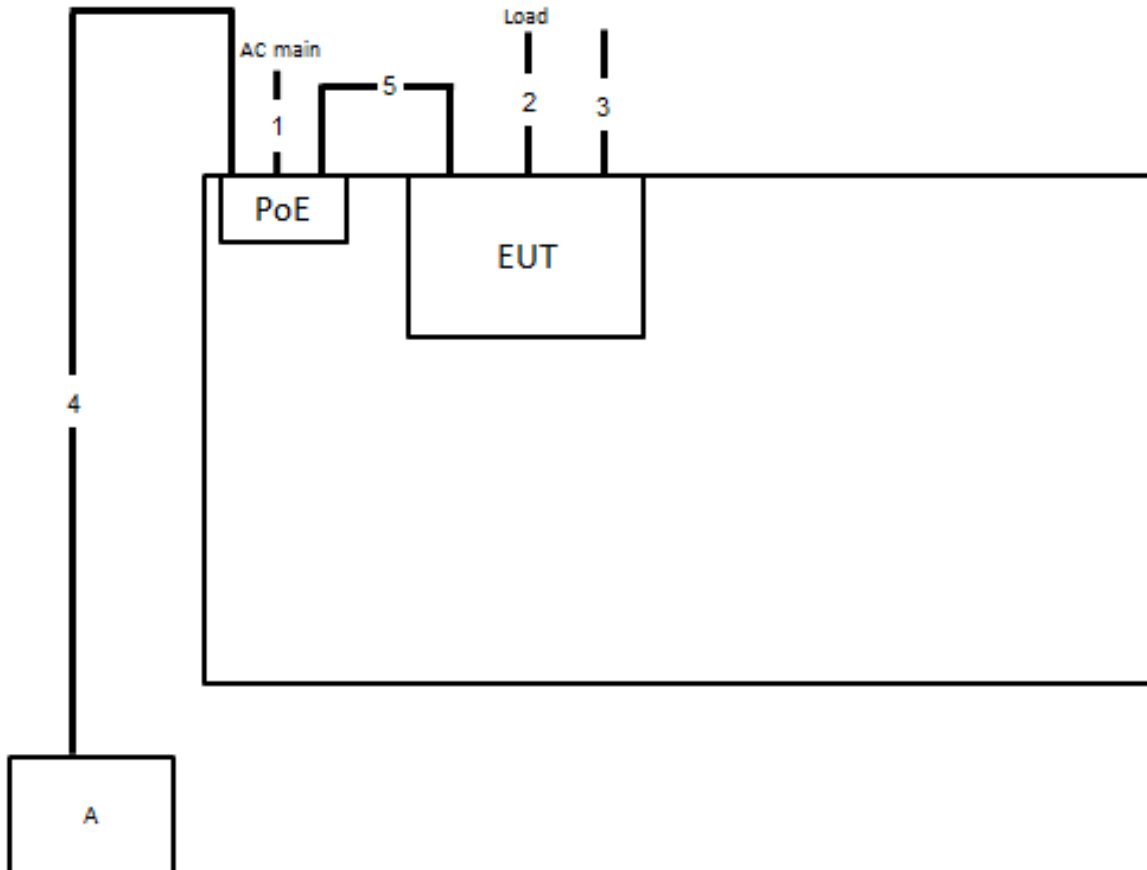
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

For RF Conducted:

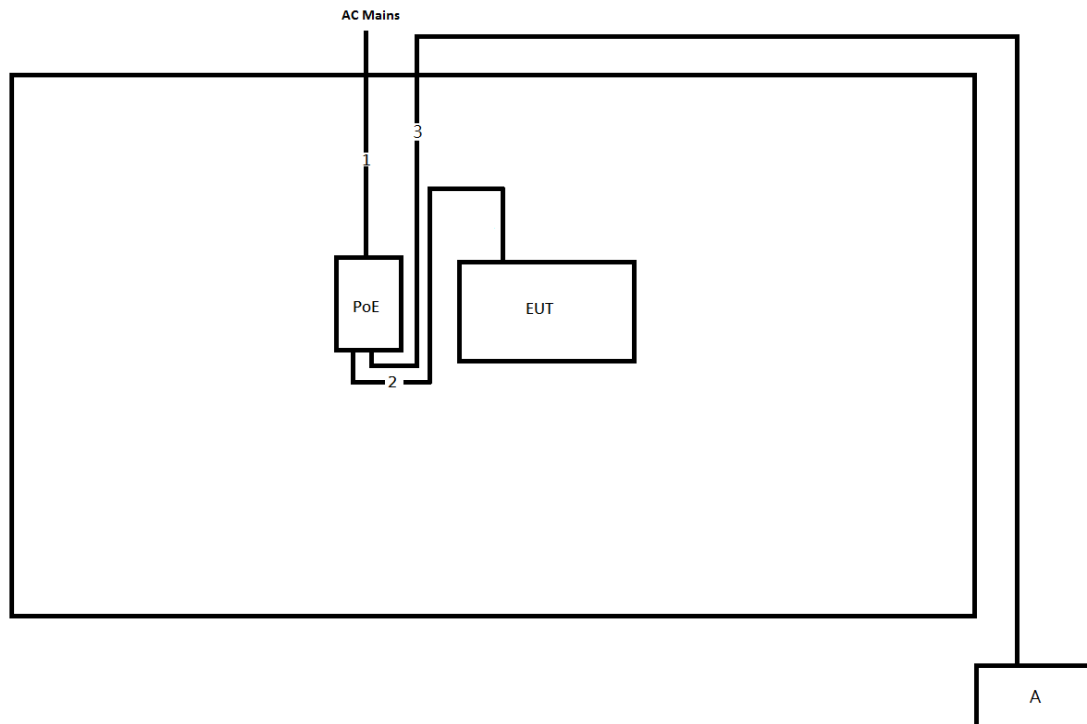
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram

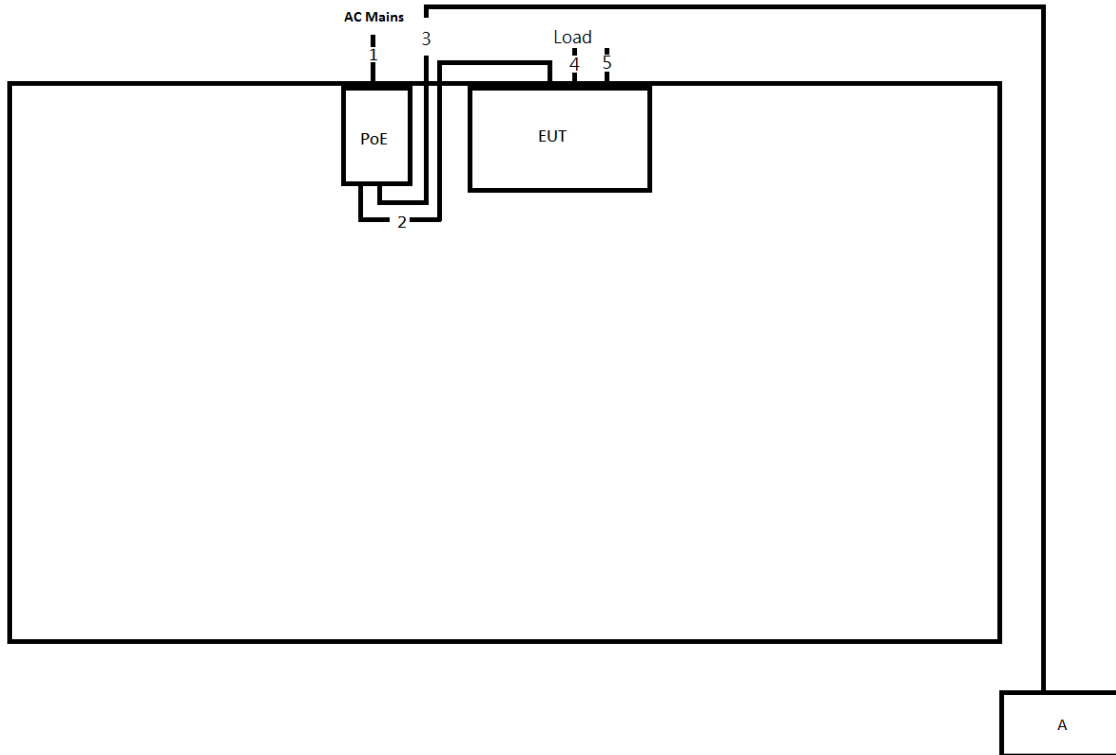
Test Setup Diagram – AC Line Conducted Emission Test (Intentional-CTX / Unintentional-CRX)



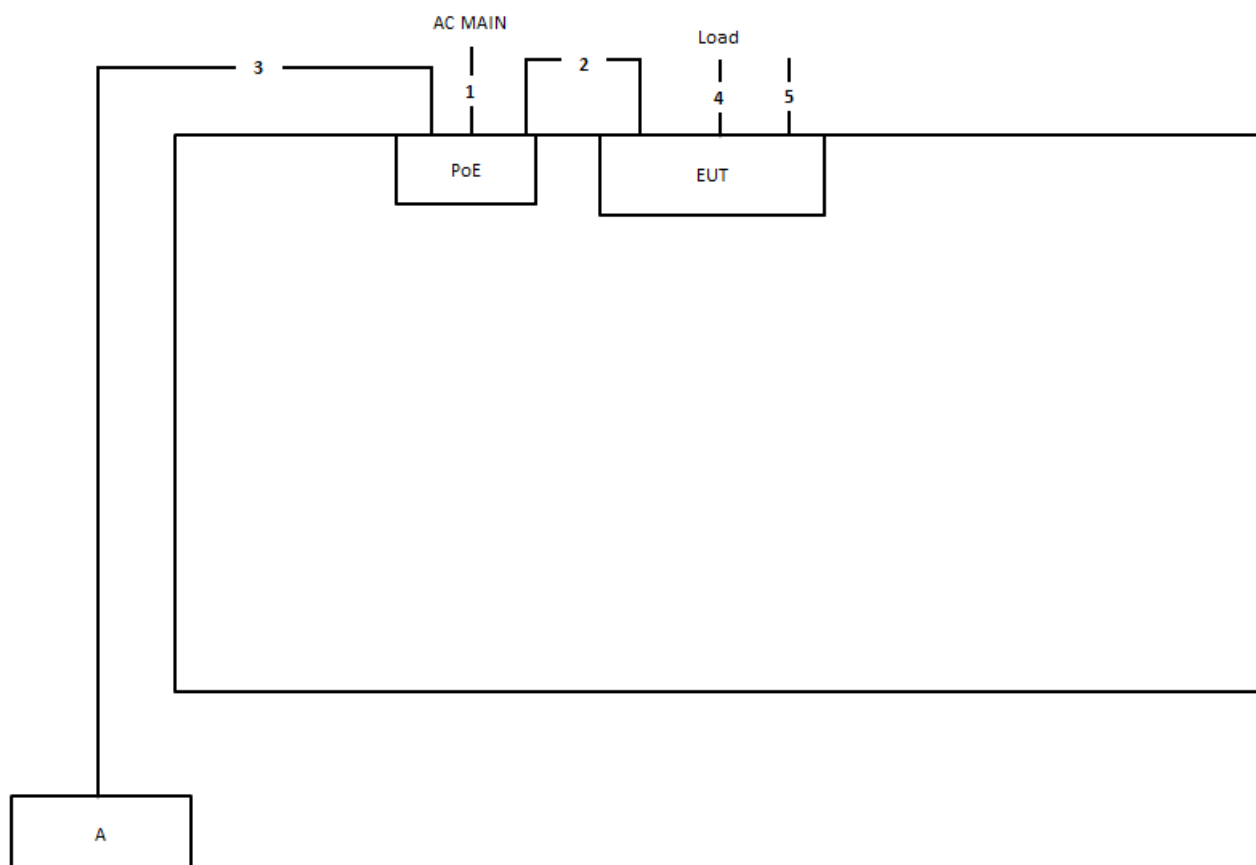
Item	Connection	Shielded	Length	Brand	Model No.
1	Power cable	No	0.6m	-	-
2	RJ-45 cable	No	1.5m	Powersync	CLN5GBR9020
3	USB cable	Yes	2m	BENEVO	BUSB0150AMMB
4	RJ-45 cable	No	10m	-	-
5	RJ-45 cable	No	1.5m	Powersync	CLN5GBR9020

Test Setup Diagram - Radiated Test (Below 1GHz: Intentional-CTX)


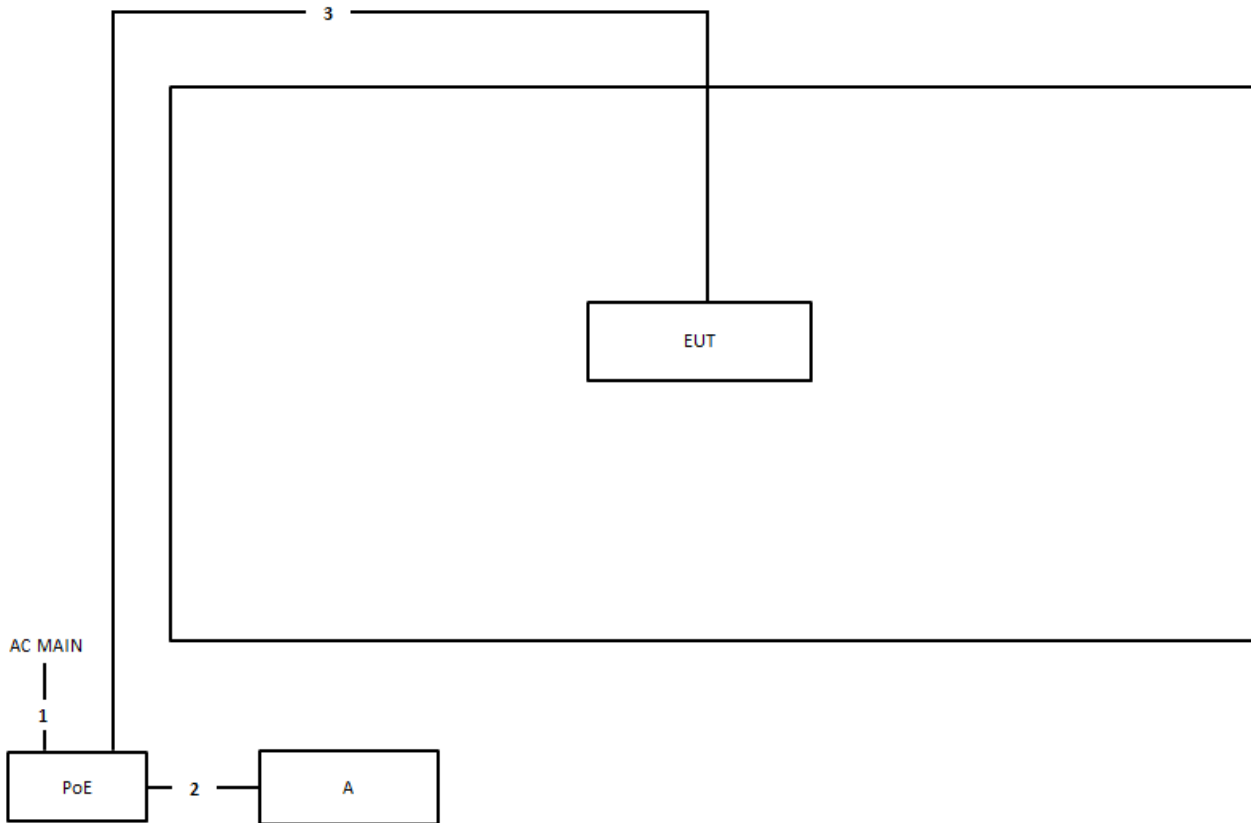
Item	Connection	Shielded	Length	Brand	Model No.
1	Power cable	No	0.6m	-	-
2	RJ-45 cable	No	1m	Power Sync	CAT6E-01
3	RJ-45 cable	No	10 m	-	-

Test Setup Diagram - Radiated Test (Below 1GHz: Unintentional-CRX)


Item	Connection	Shielded	Length	Brand	Model No.
1	Power cable	No	0.6m	-	-
2	RJ-45 cable	No	1m	Power Sync	CAT6E-01
3	RJ-45 cable	No	10m	-	-
4	RJ-45 cable	No	2m	Power Sync	CAT6E-02
5	USB cable	Yes	1.2m	Hawk	04-HTE120RD

Test Setup Diagram - Radiated Test (Above 1GHz: Unintentional 1GHz~5th-CRX)


Item	Connection	Shielded	Length	Brand	Model No.
1	Power cable	No	0.6m	-	-
2	RJ-45 cable	No	1.5m	PowerSync	C65B10FL
3	RJ-45 cable	No	10m	-	-
4	RJ-45 cable	No	1.5m	PowerSync	C65B10FL
5	USB cable	Yes	2m	MYCE II	R.Link II

Test Setup Diagram - Radiated Test (Above 1GHz: Intentional 1GHz~10th-CTX)


Item	Connection	Shielded	Length	Brand	Model No.
1	Power cable	No	0.6m	-	-
2	RJ-45 cable	No	1.5m	-	-
3	RJ-45 cable	No	10m	PowerSync	C65B10FL



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.

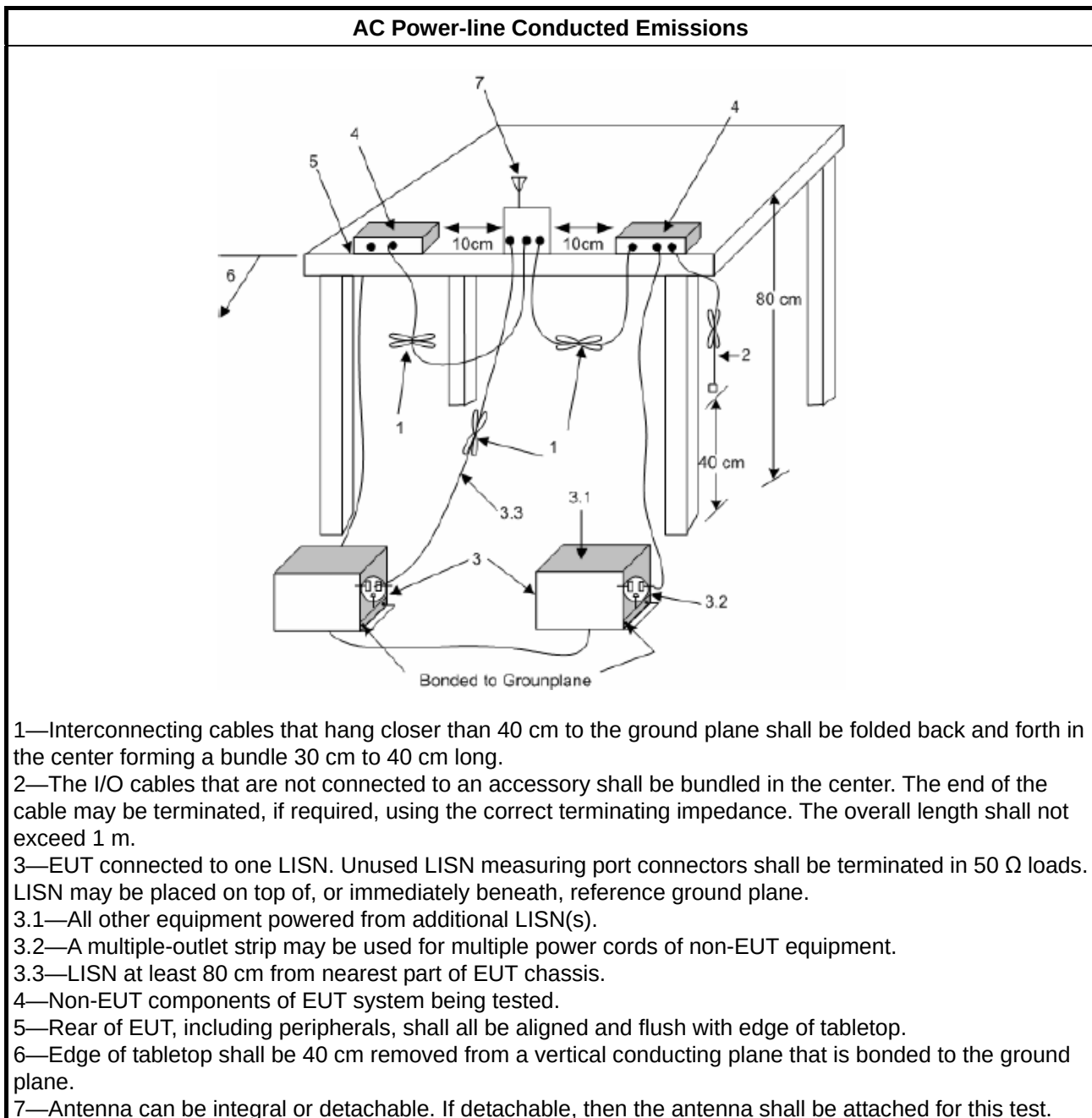
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ 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:
6 dB bandwidth $\geq$ 500 kHz.

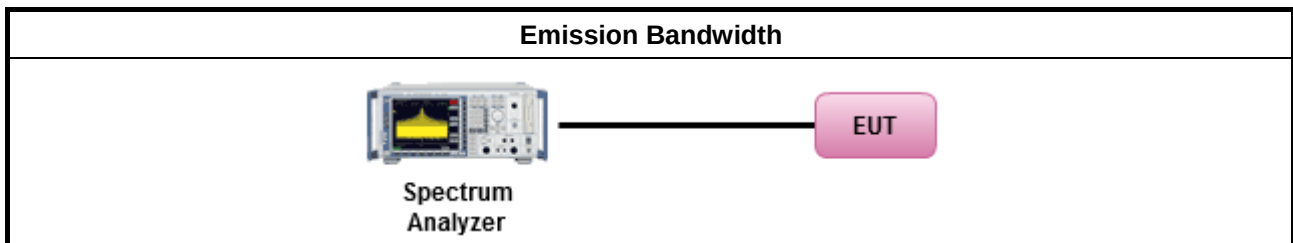
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ 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.	

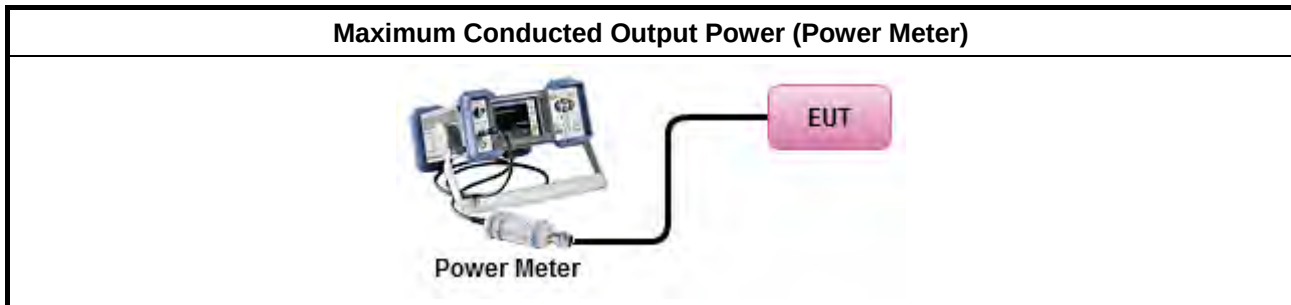
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit ports 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.	
If multiple transmit ports, 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
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

3.4.2 Measuring Instruments

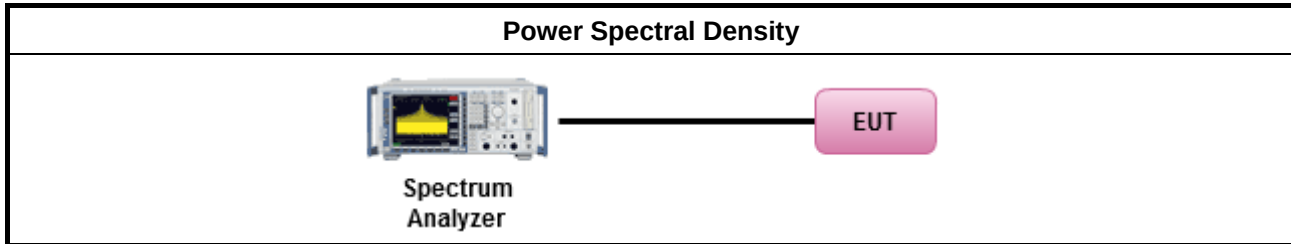
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪ 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).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD. [duty cycle $\geq 98\%$ or external video / power trigger]
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPS-1.
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPS-2.
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPS-3.
duty cycle $< 98\%$ and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPS-1A. (alternative).
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPS-2A. (alternative)
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.8 Method AVGPS-3A. (alternative)
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit ports using options given below:	
☒	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 ports and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,

- | | |
|--|--|
| | ☐ Option 3: Measure and add $10 \log(N)$ dB, where N is the number of transmit ports. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit ports and each transmit ports shall be compared with the limit have been reduced with $10 \log(N)$. Or each transmit ports shall be add $10 \log(N)$ to compared with the limit. |
|--|--|

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

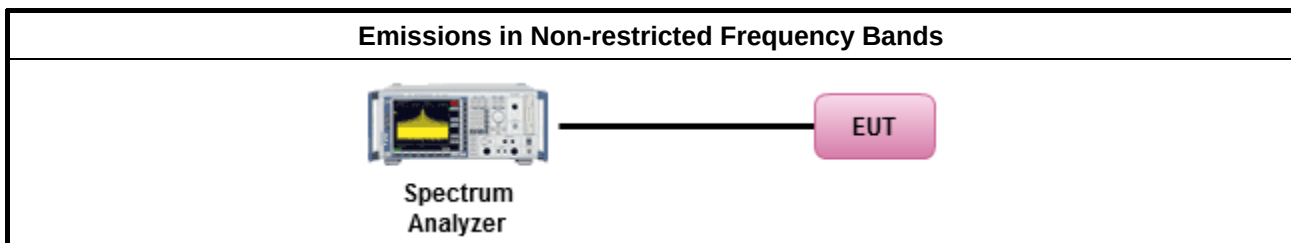
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 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

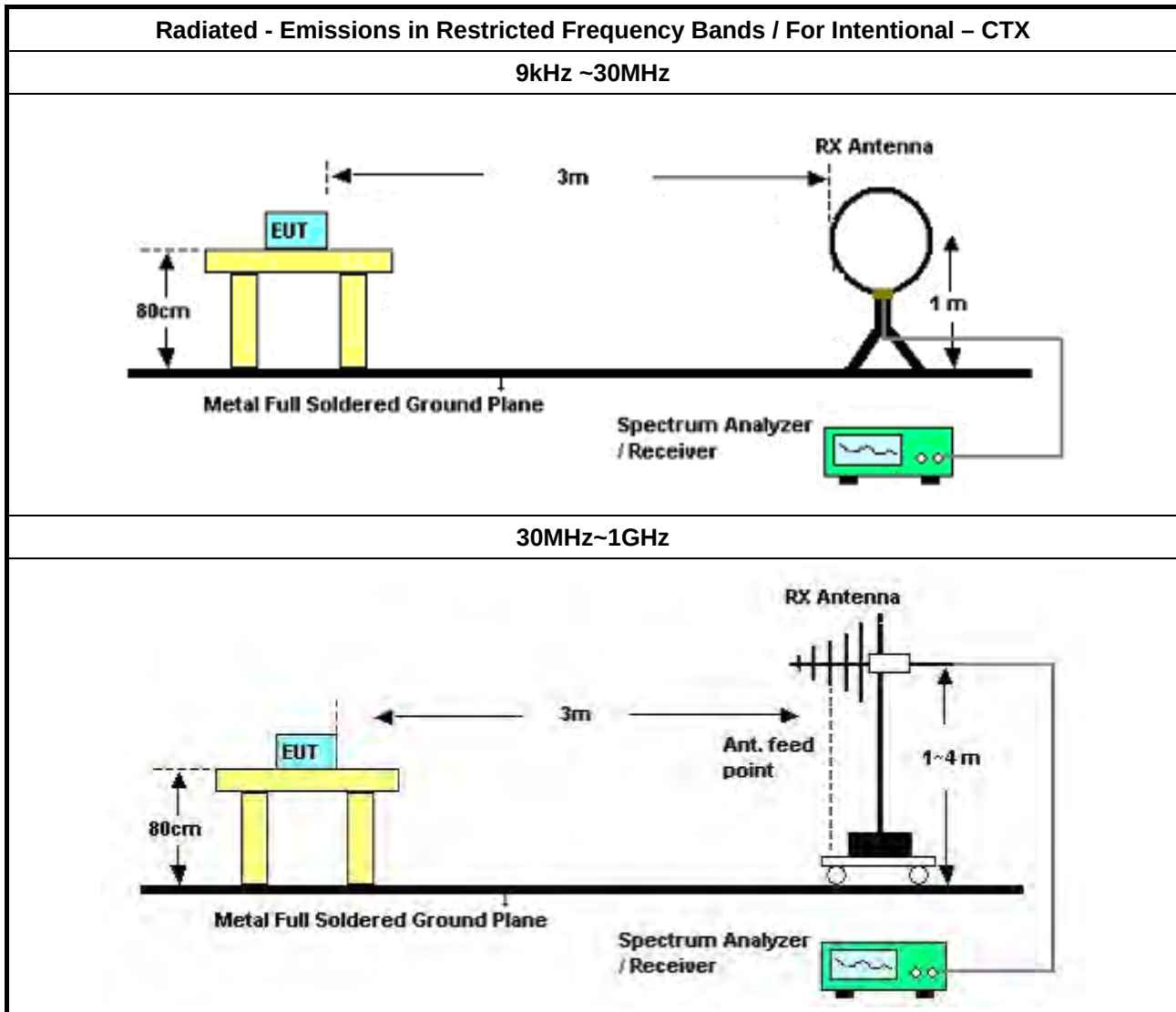
Refer a test equipment and calibration data table in this test report.

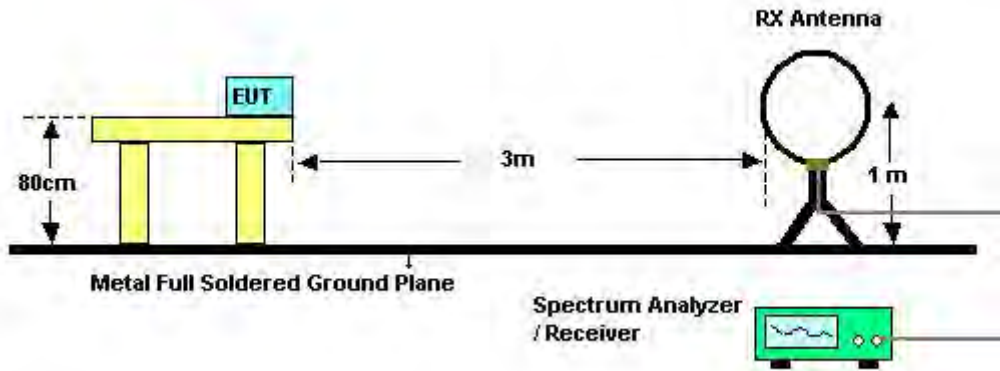
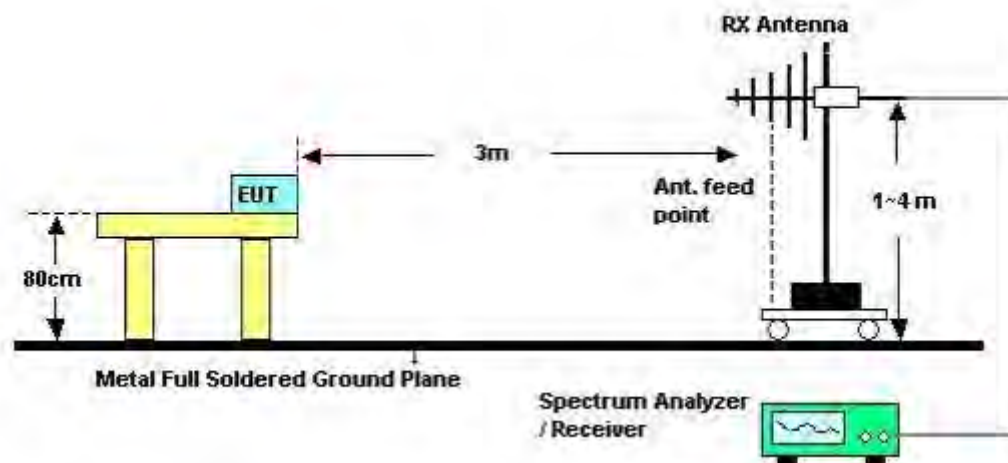


3.6.3 Test Procedures

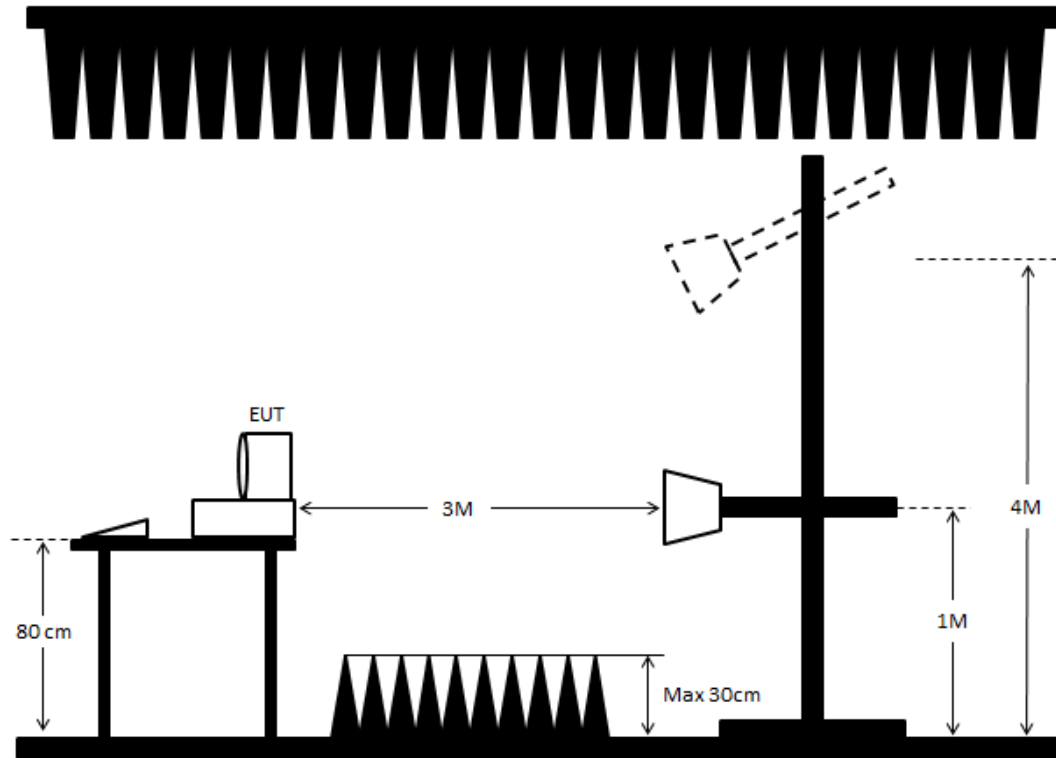
Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
☐	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit ports using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	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

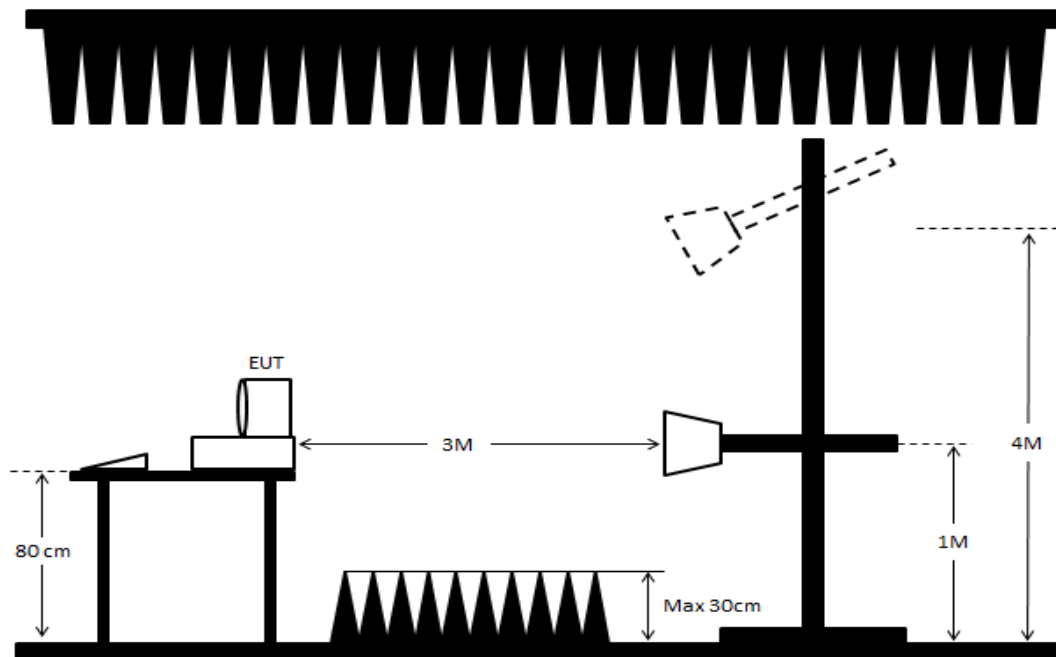


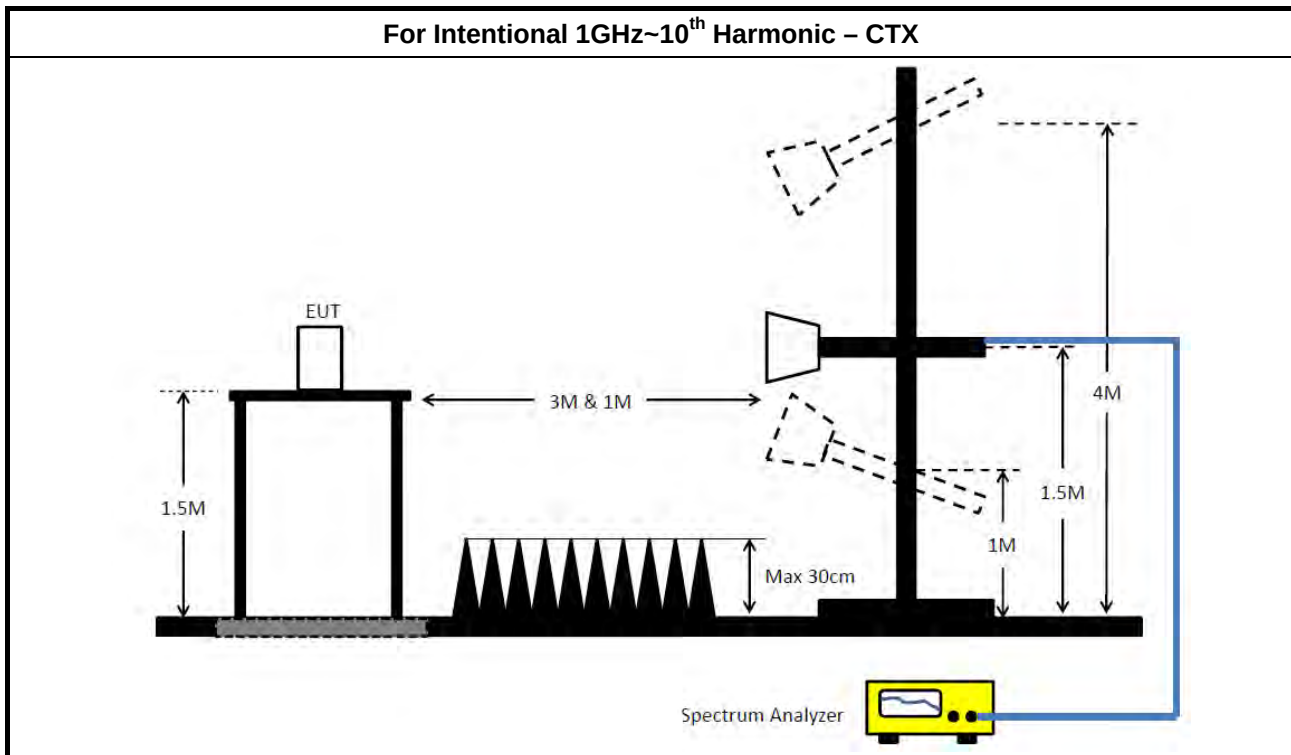
For Unintentional – CRX
9kHz ~30MHz

30MHz~1GHz


For Unintentional 1GHz~5th Harmonic – CRX (1,000~18,000 MHz)



For Unintentional 1GHz~5th Harmonic – CRX (18,000~30,000 MHz)





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

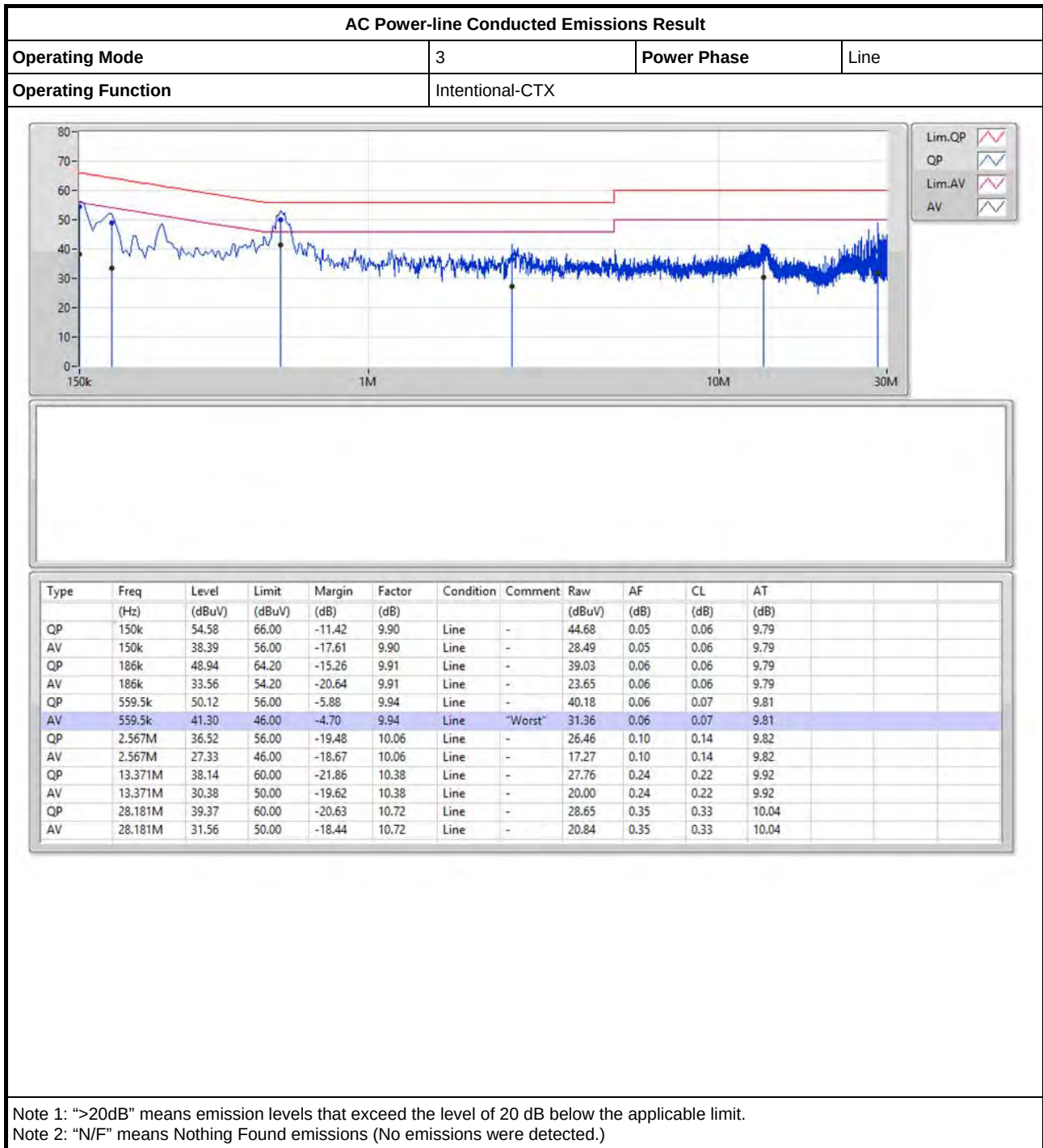
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 27, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz~100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Oct. 30, 2018	Oct. 29, 2019	Radiation (03CH03-HY)
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	Apr. 22, 2019	Apr. 21, 2020	Radiation (03CH03-HY)
Signal Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Dec. 27, 2018	Dec. 26, 2019	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Mar. 22, 2019	Mar. 21, 2020	Radiation (03CH03-HY)
Bilog Antenna with 5dB Pad	ETS	3142B & MTJ6102-05	00022055	26 MHz - 3 GHz	Nov. 19, 2018	Nov. 18, 2019	Radiation (03CH03-HY)
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	Apr. 09, 2019	Apr. 08, 2020	Radiation (03CH03-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	Mar. 15, 2019	Mar. 14, 2020	Radiation (03CH03HY)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 12, 2018	Oct. 11, 2019	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+23	30MHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)

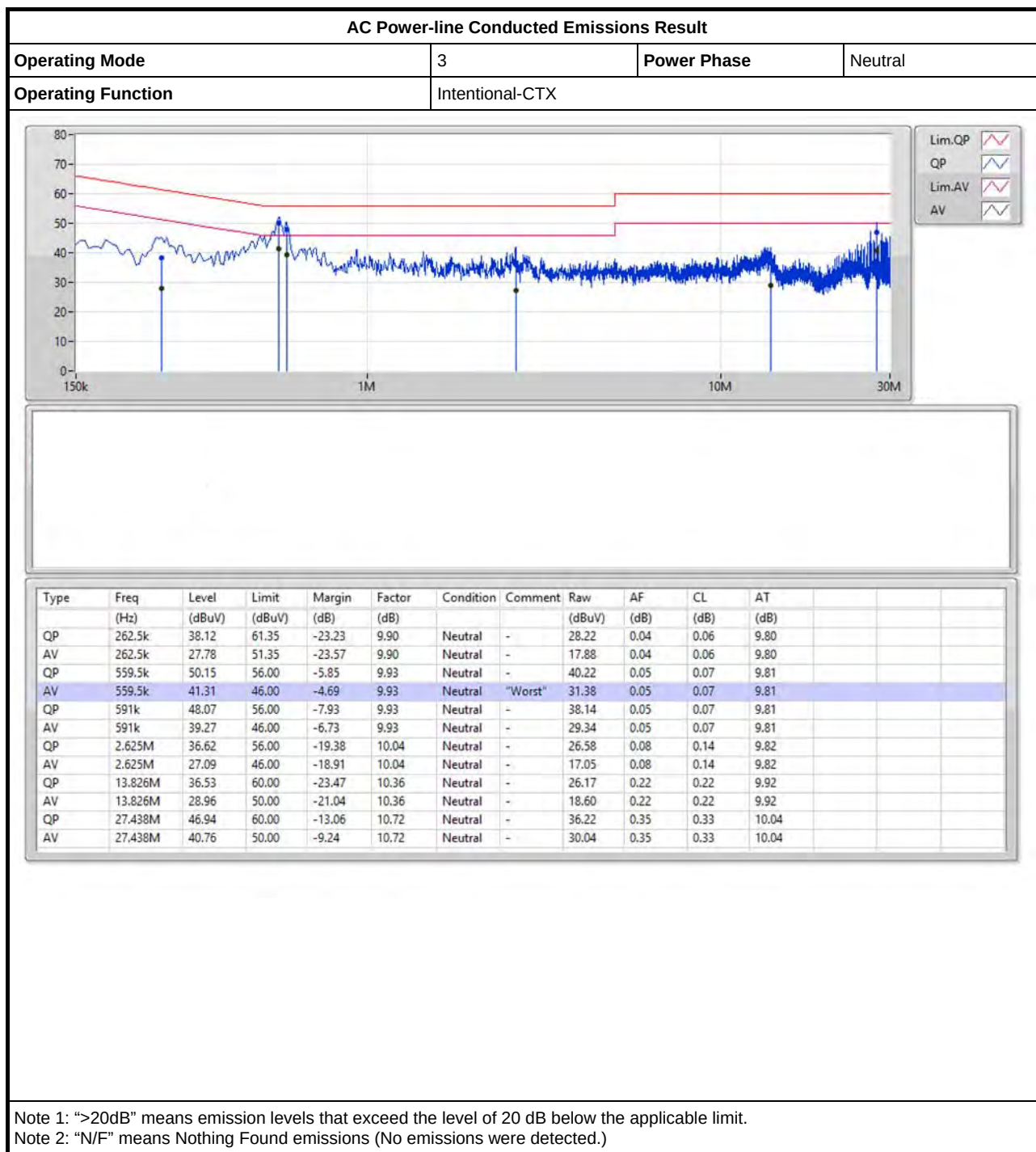


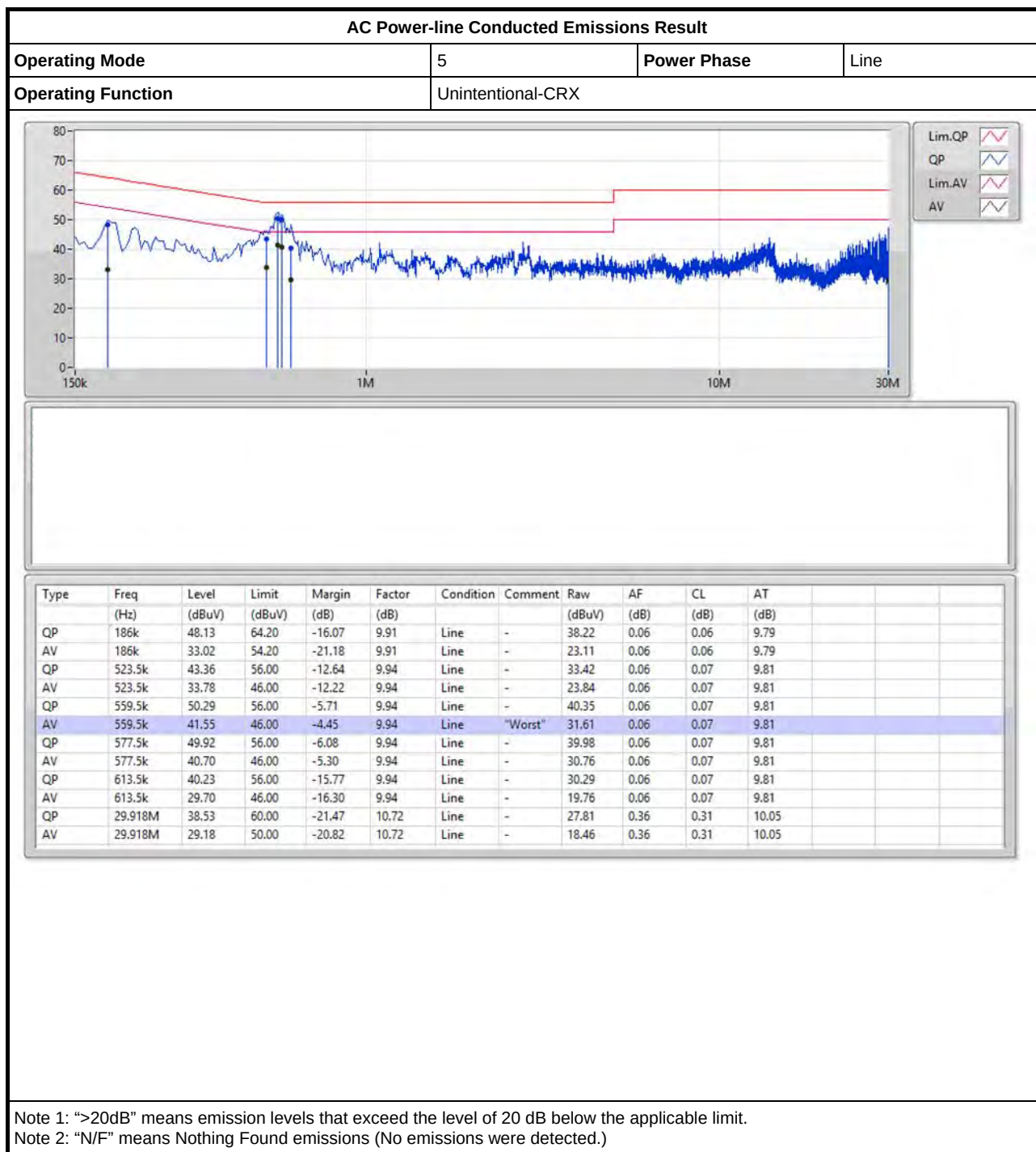
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz ~26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

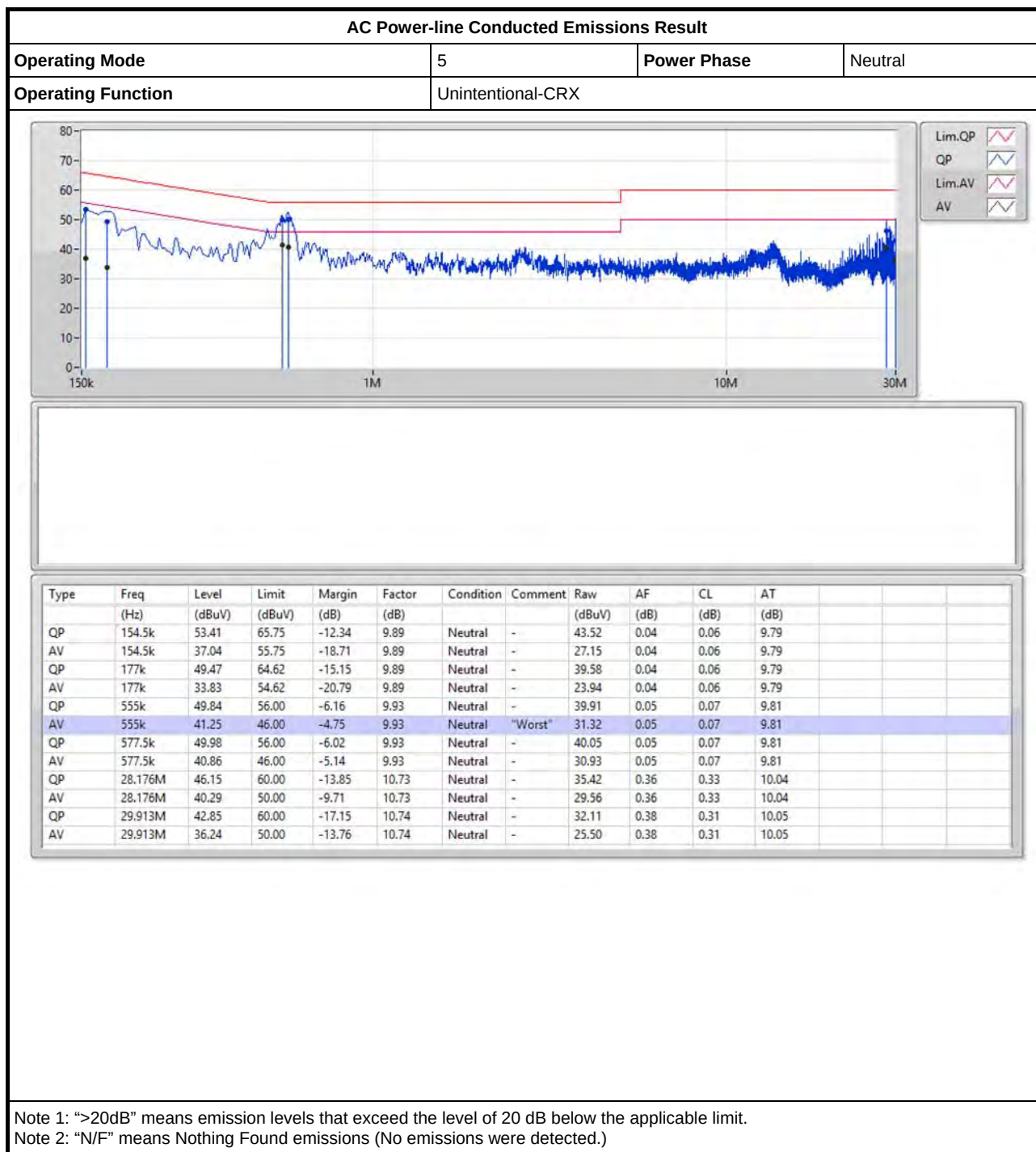
Note: Calibration Interval of instruments listed above is one year.

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









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	9.575M	14.243M	14M2G1D	7.55M	12.569M
802.11g_Nss1,(6Mbps)_4TX	16.3M	16.467M	16M5D1D	15.075M	16.367M
VHT20_Nss1,(MCS0)_4TX	17.6M	17.766M	17M8D1D	16.5M	17.541M
VHT40_Nss1,(MCS0)_4TX	35.6M	35.982M	36M0D1D	28.15M	35.832M

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;

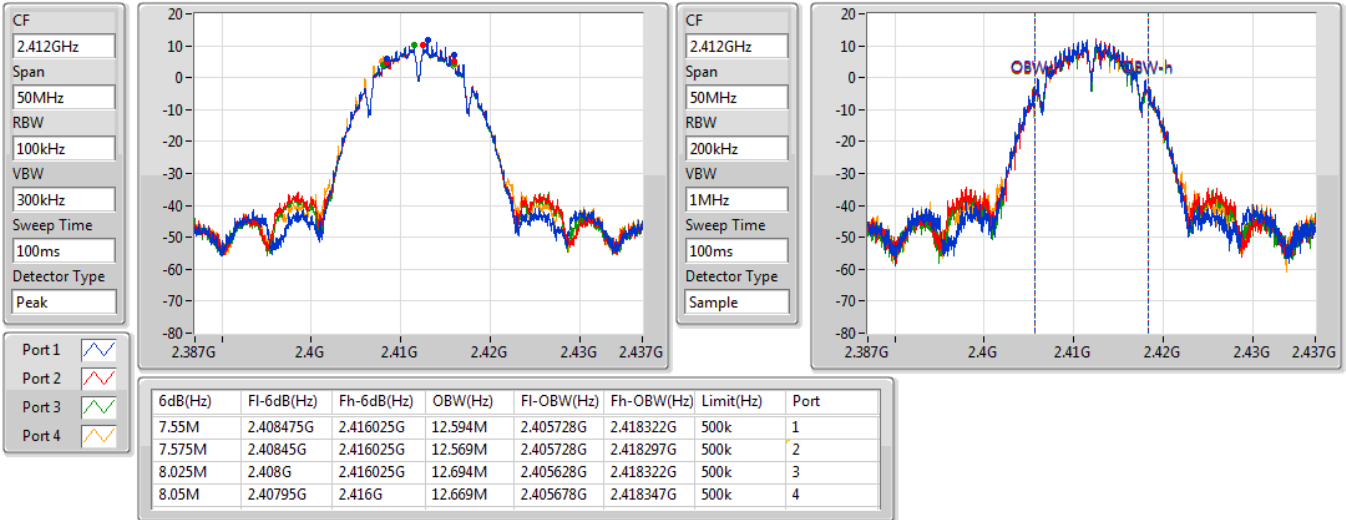
Result

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	7.55M	12.594M	7.575M	12.569M	8.025M	12.694M	8.05M	12.669M
2437MHz	Pass	500k	9.025M	13.118M	9.575M	13.968M	9.05M	13.618M	9.575M	14.243M
2462MHz	Pass	500k	7.55M	12.669M	7.55M	12.569M	7.575M	12.669M	7.55M	12.719M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.275M	16.392M	15.675M	16.417M	16.3M	16.392M	16.275M	16.392M
2437MHz	Pass	500k	16M	16.417M	16.25M	16.467M	16.275M	16.442M	15.075M	16.417M
2462MHz	Pass	500k	16.3M	16.467M	15.5M	16.367M	16.05M	16.417M	16.25M	16.367M
VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.65M	17.566M	17.525M	17.616M	17.525M	17.616M	17.6M	17.541M
2437MHz	Pass	500k	17.5M	17.666M	16.55M	17.766M	16.5M	17.716M	16.9M	17.716M
2462MHz	Pass	500k	17.125M	17.591M	16.55M	17.591M	16.525M	17.616M	16.5M	17.591M
VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	32.4M	35.832M	35.6M	35.932M	33.2M	35.882M	34.95M	35.982M
2437MHz	Pass	500k	34.2M	35.882M	35.05M	35.932M	34.35M	35.932M	32.55M	35.832M
2452MHz	Pass	500k	34.95M	35.832M	28.15M	35.932M	35M	35.932M	35.3M	35.932M

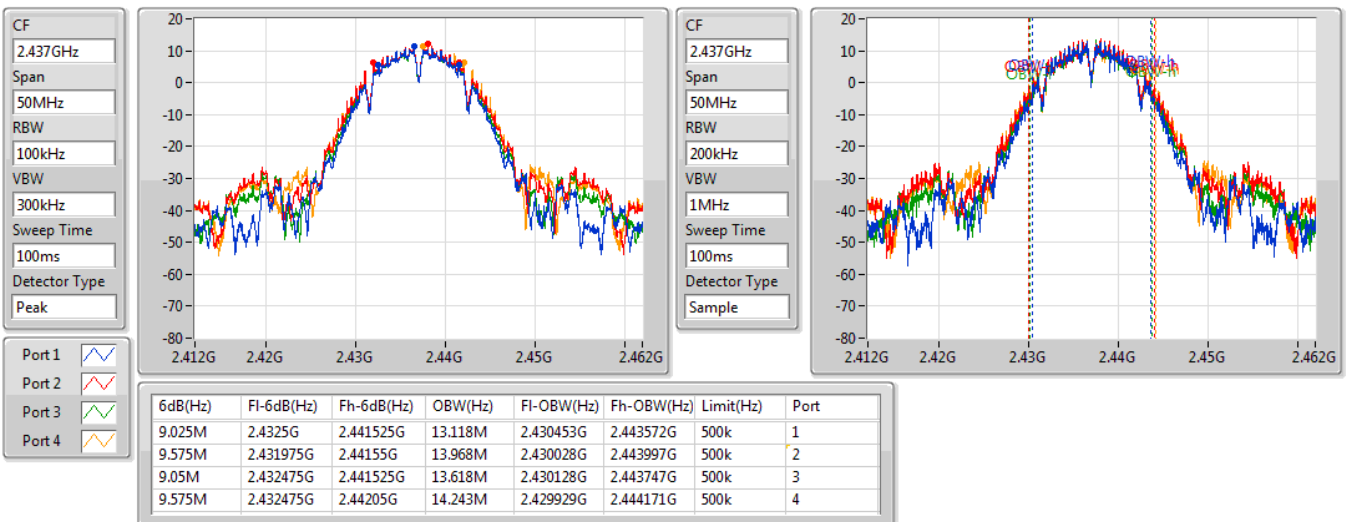
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_4TX
EBW
2412MHz

03/07/2019


802.11b_Nss1,(1Mbps)_4TX
EBW
2437MHz

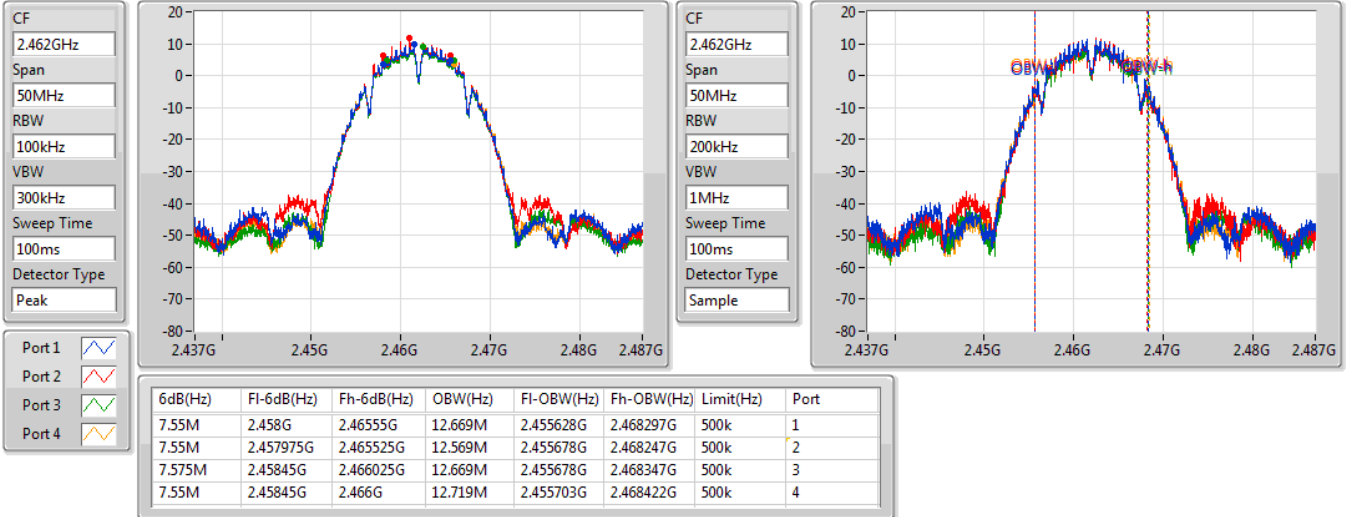
03/07/2019



802.11b_Nss1,(1Mbps)_4TX

EBW
2462MHz

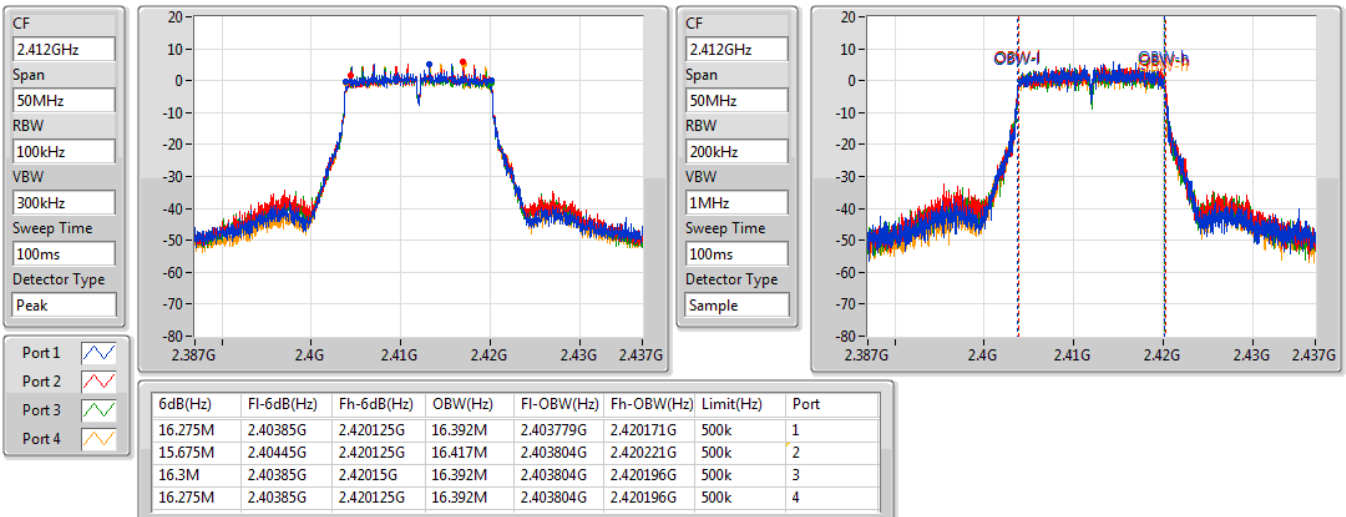
03/07/2019



802.11g_Nss1,(6Mbps)_4TX

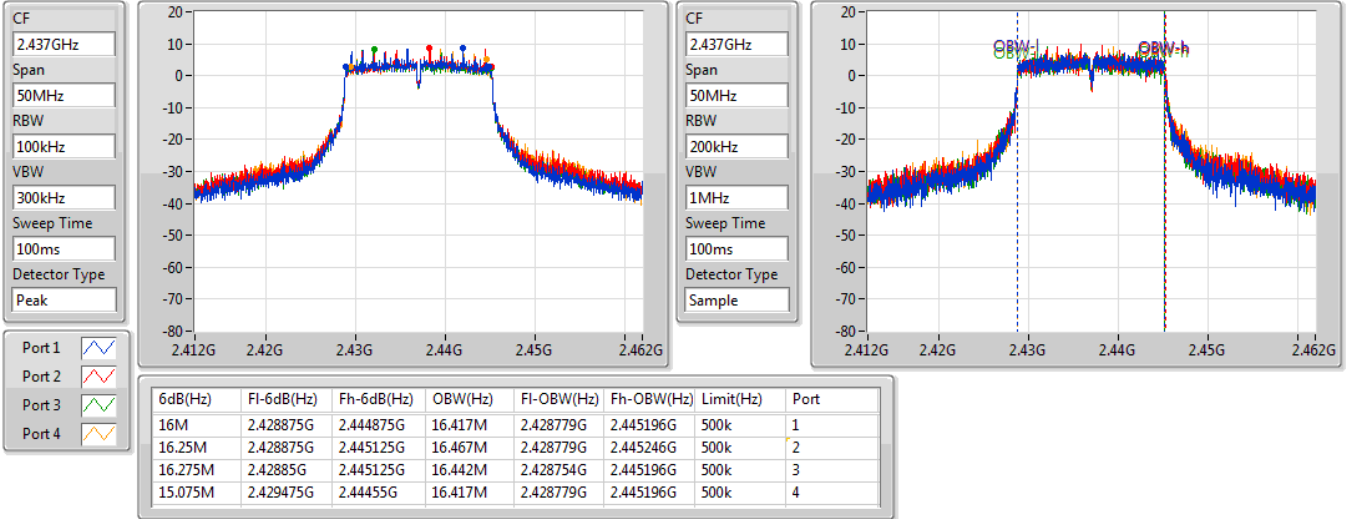
EBW
2412MHz

03/07/2019

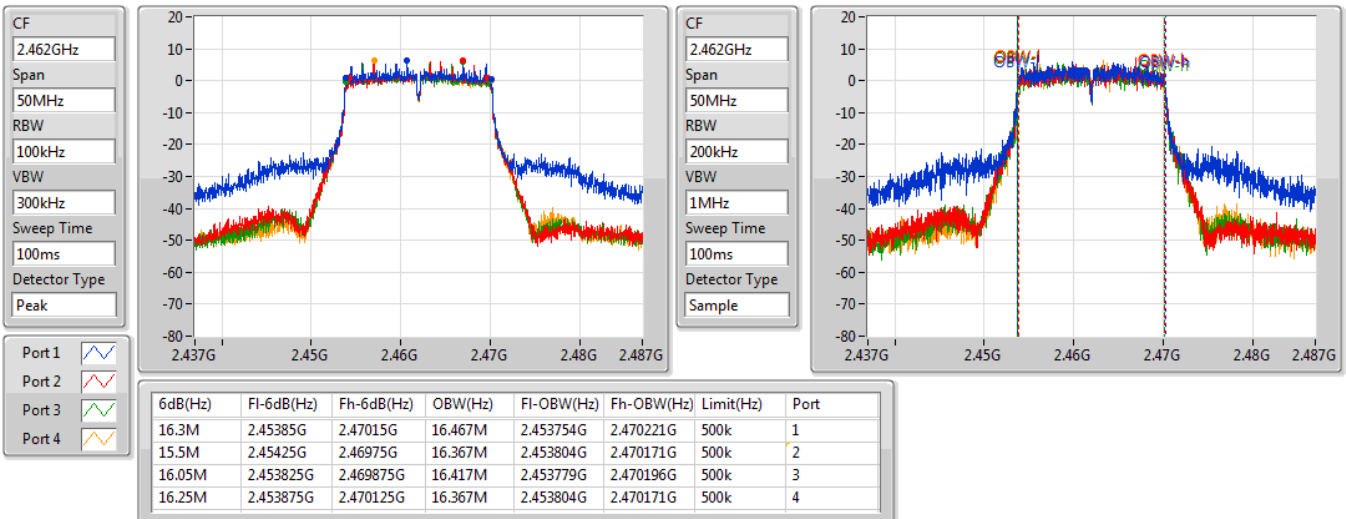


802.11g_Nss1,(6Mbps)_4TX
EBW
2437MHz

03/07/2019

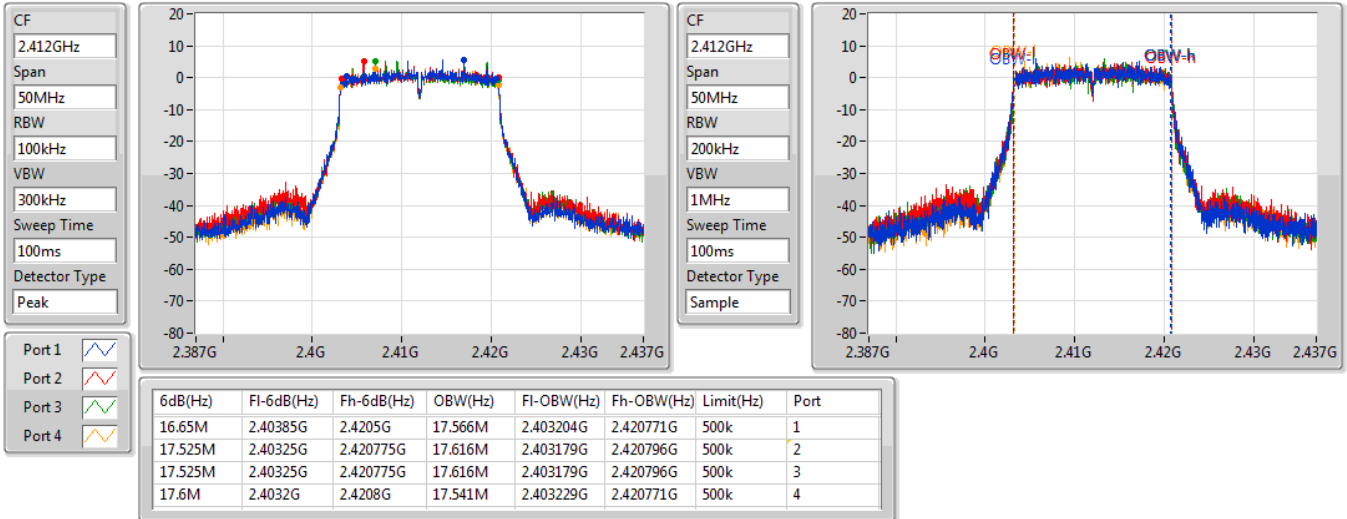

802.11g_Nss1,(6Mbps)_4TX
EBW
2462MHz

03/07/2019

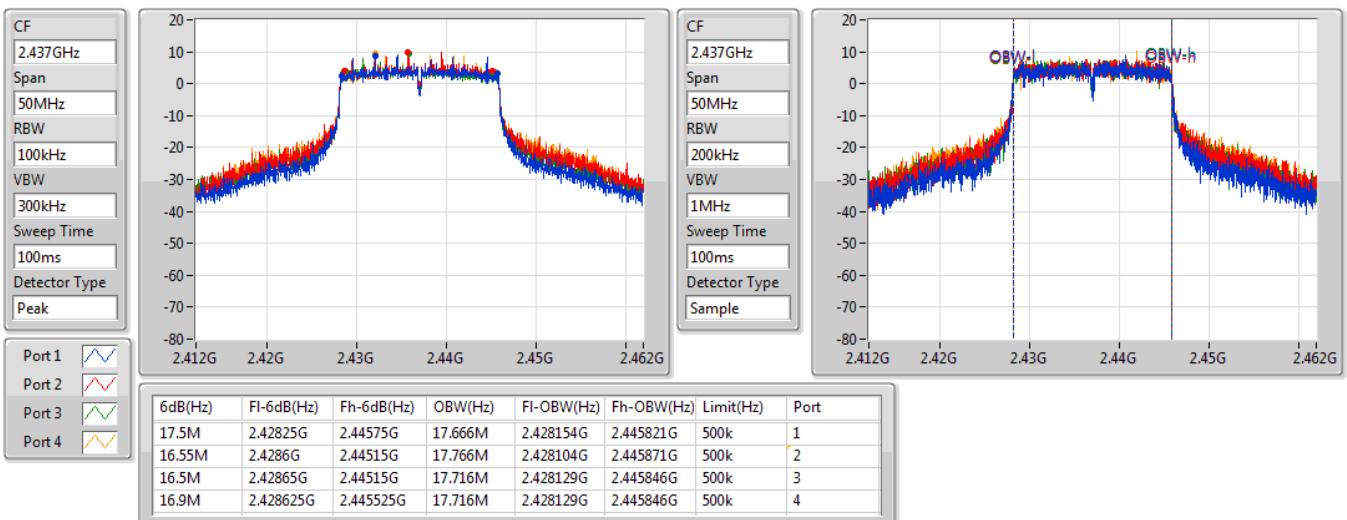


VHT20_Nss1,(MCS0)_4TX
EBW
2412MHz

03/07/2019

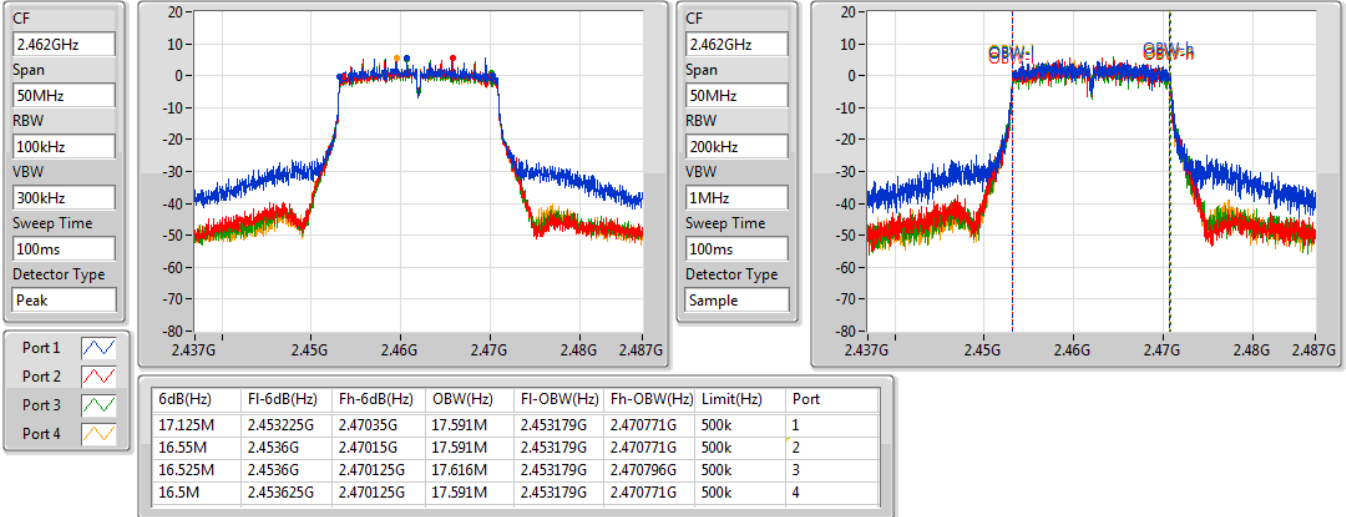

VHT20_Nss1,(MCS0)_4TX
EBW
2437MHz

03/07/2019

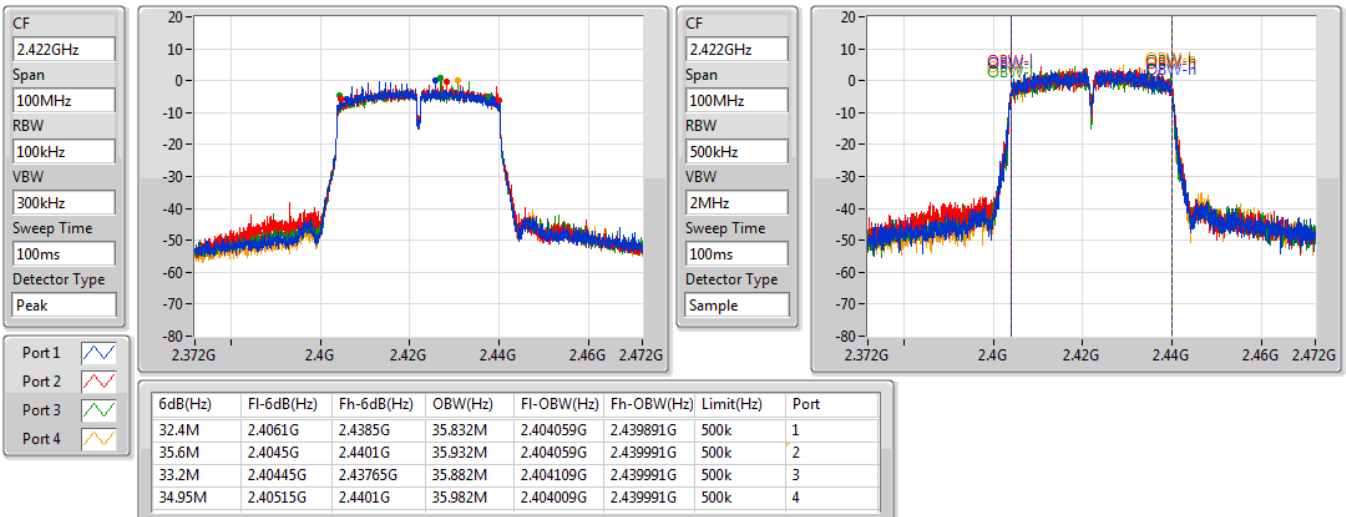


VHT20_Nss1,(MCS0)_4TX
EBW
2462MHz

03/07/2019

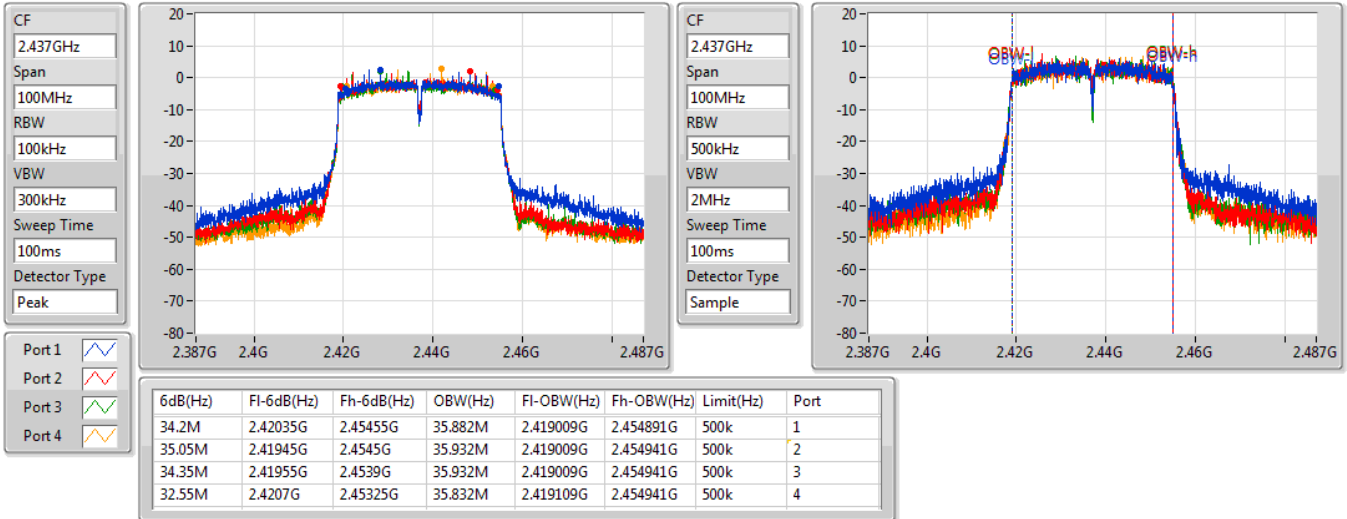

VHT40_Nss1,(MCS0)_4TX
EBW
2422MHz

03/07/2019

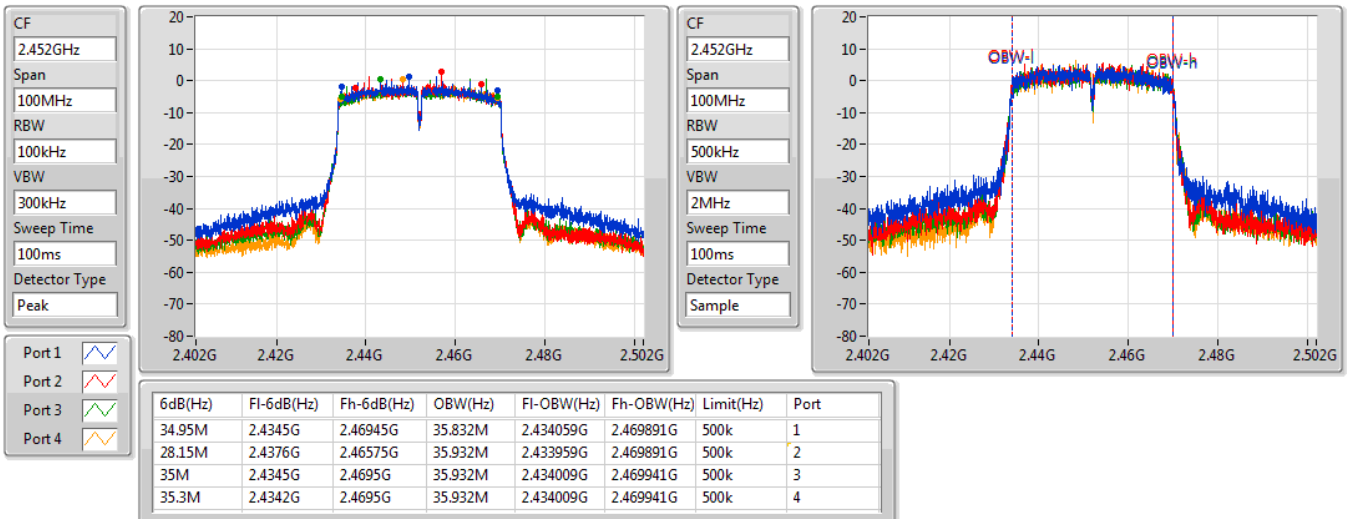


VHT40_Nss1,(MCS0)_4TX
EBW
2437MHz

03/07/2019


VHT40_Nss1,(MCS0)_4TX
EBW
2452MHz

03/07/2019





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	25.88	0.38726
802.11g_Nss1,(6Mbps)_4TX	24.53	0.28379
VHT20_Nss1,(MCS0)_4TX	25.41	0.34754
VHT40_Nss1,(MCS0)_4TX	22.05	0.16032

**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	6.00	19.71	19.65	19.71	19.93	25.77	30.00
2437MHz	Pass	6.00	19.81	19.77	19.96	19.91	25.88	30.00
2462MHz	Pass	6.00	19.38	19.51	19.10	19.42	25.38	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.00	16.26	16.19	16.24	16.18	22.24	30.00
2437MHz	Pass	6.00	18.57	18.63	18.32	18.50	24.53	30.00
2462MHz	Pass	6.00	17.01	16.72	16.68	16.96	22.87	30.00
VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.00	16.38	16.58	16.74	16.70	22.62	30.00
2437MHz	Pass	6.00	19.17	19.52	19.36	19.48	25.41	30.00
2462MHz	Pass	6.00	16.82	16.53	16.52	16.82	22.70	30.00
VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	6.00	14.53	14.44	14.56	14.76	20.59	30.00
2437MHz	Pass	6.00	16.19	16.08	15.91	15.92	22.05	30.00
2452MHz	Pass	6.00	15.58	15.58	15.41	15.64	21.57	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	-1.78
802.11g_Nss1,(6Mbps)_4TX	-3.48
VHT20_Nss1,(MCS0)_4TX	-2.88
VHT40_Nss1,(MCS0)_4TX	-7.71

RBW=3 kHz.

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	12.02	-8.27	-8.14	-8.33	-8.30	-2.36	1.98
2437MHz	Pass	12.02	-7.01	-6.65	-7.00	-6.81	-1.78	1.98
2462MHz	Pass	12.02	-8.70	-8.68	-9.21	-9.10	-3.12	1.98
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	12.02	-11.65	-11.60	-10.71	-11.12	-6.45	1.98
2437MHz	Pass	12.02	-9.11	-8.44	-9.23	-6.72	-3.48	1.98
2462MHz	Pass	12.02	-10.30	-10.89	-11.12	-11.07	-5.92	1.98
VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	12.02	-11.03	-10.69	-11.47	-11.58	-6.10	1.98
2437MHz	Pass	12.02	-7.86	-7.72	-7.91	-7.63	-2.88	1.98
2462MHz	Pass	12.02	-10.81	-9.74	-11.35	-10.04	-5.87	1.98
VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	12.02	-15.63	-14.40	-15.57	-14.91	-9.98	1.98
2437MHz	Pass	12.02	-12.84	-13.11	-13.53	-13.45	-7.71	1.98
2452MHz	Pass	12.02	-13.70	-11.82	-14.47	-13.77	-8.83	1.98

DG = Directional Gain; RBW=3 kHz;

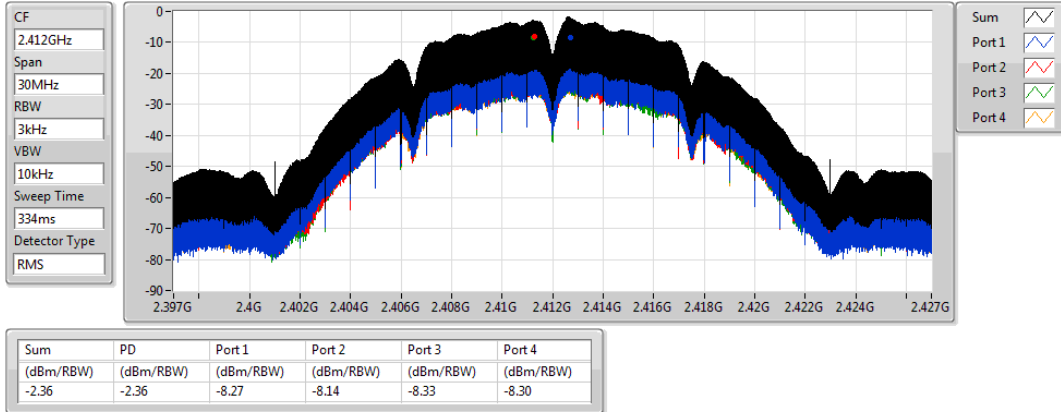
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

03/07/2019

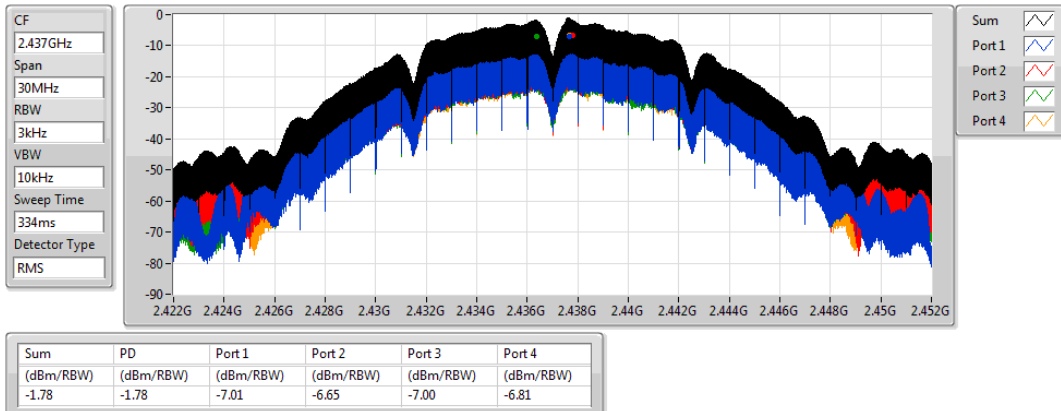


802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

03/07/2019

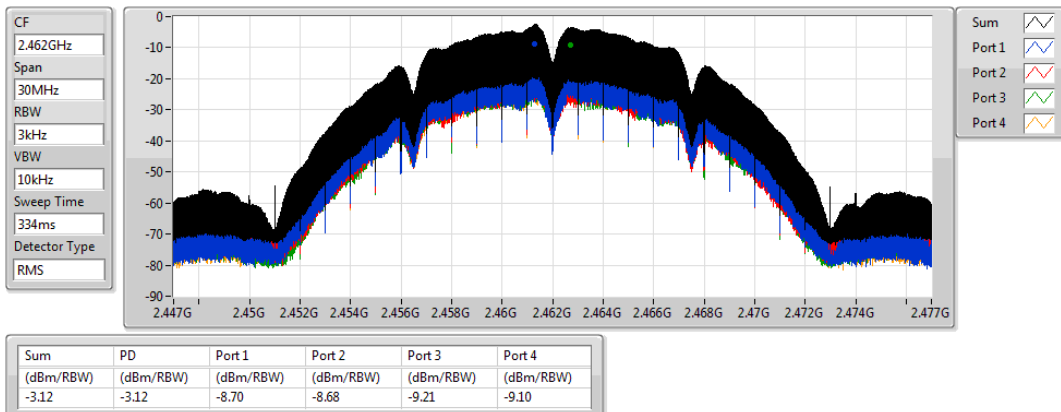


802.11b_Nss1,(1Mbps)_4TX

PSD

2462MHz

03/07/2019

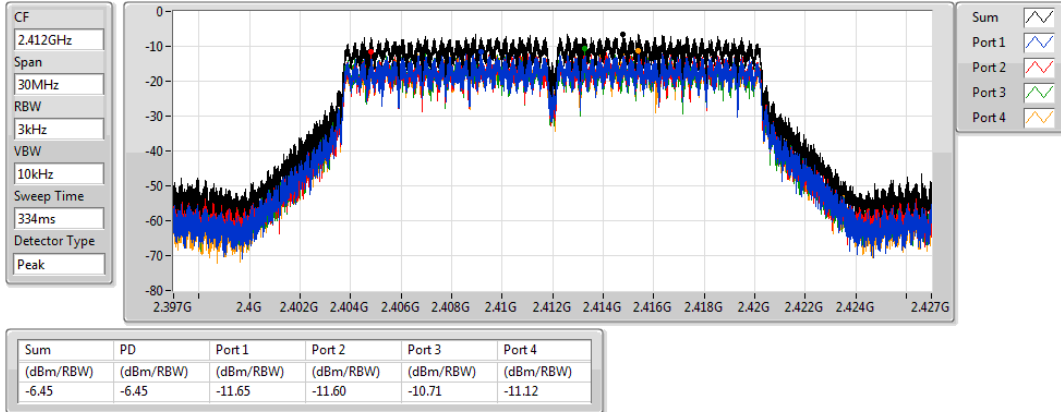


802.11g_Nss1,(6Mbps)_4TX

PSD

2412MHz

03/07/2019

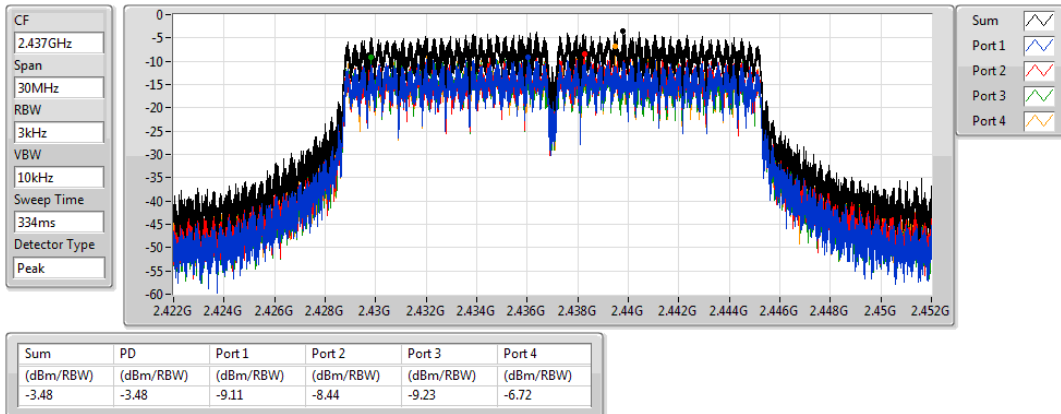


802.11g_Nss1,(6Mbps)_4TX

PSD

2437MHz

03/07/2019

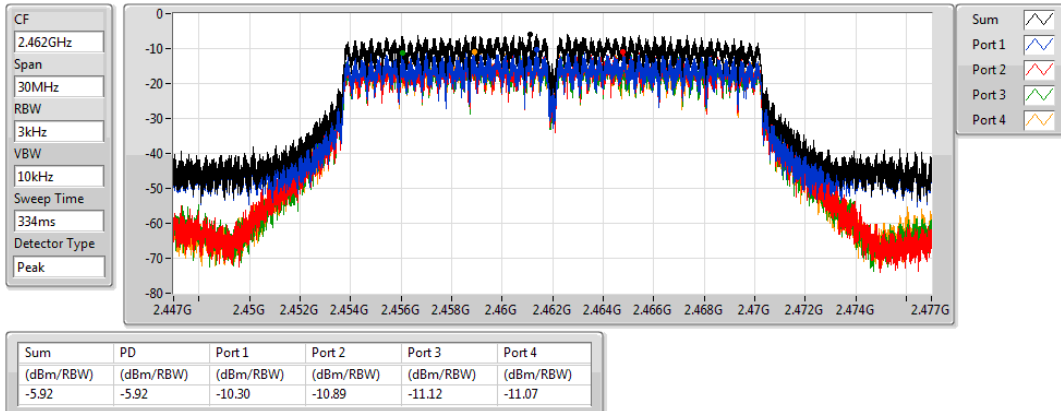


802.11g_Nss1,(6Mbps)_4TX

PSD

2462MHz

03/07/2019

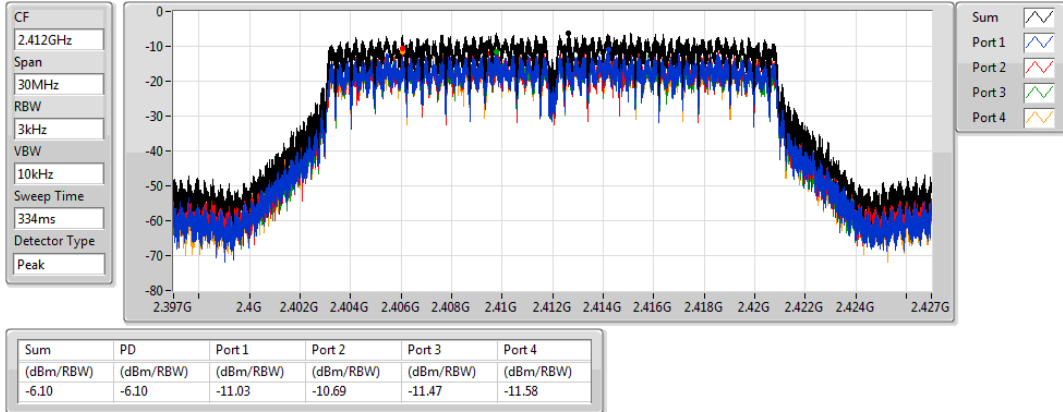


VHT20_Nss1,(MCS0)_4TX

PSD

2412MHz

03/07/2019

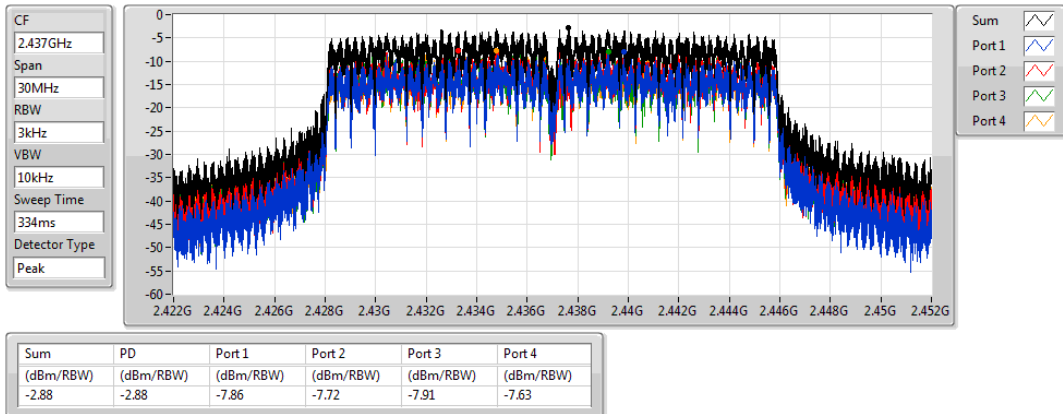


VHT20_Nss1,(MCS0)_4TX

PSD

2437MHz

03/07/2019

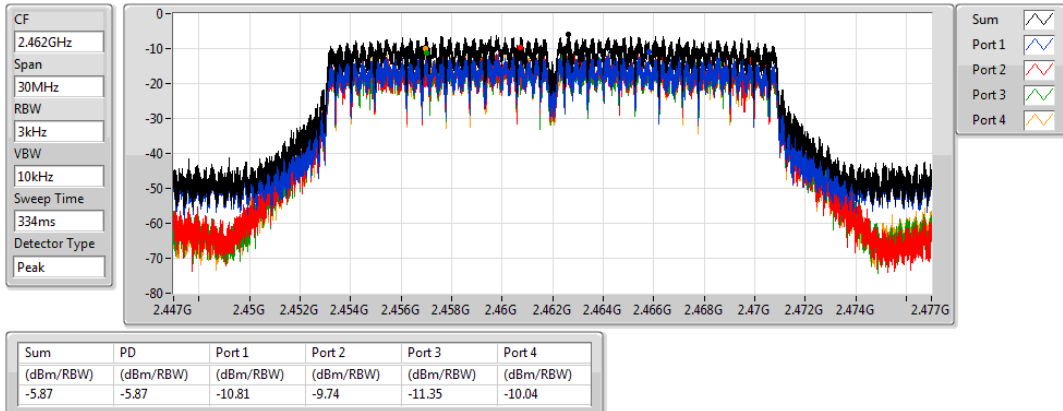


VHT20_Nss1,(MCS0)_4TX

PSD

2462MHz

03/07/2019

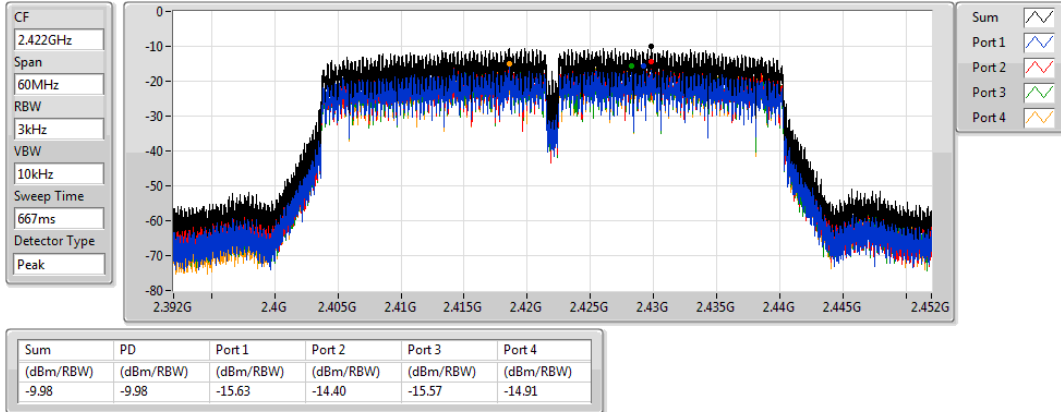


VHT40_Nss1,(MCS0)_4TX

PSD

2422MHz

03/07/2019

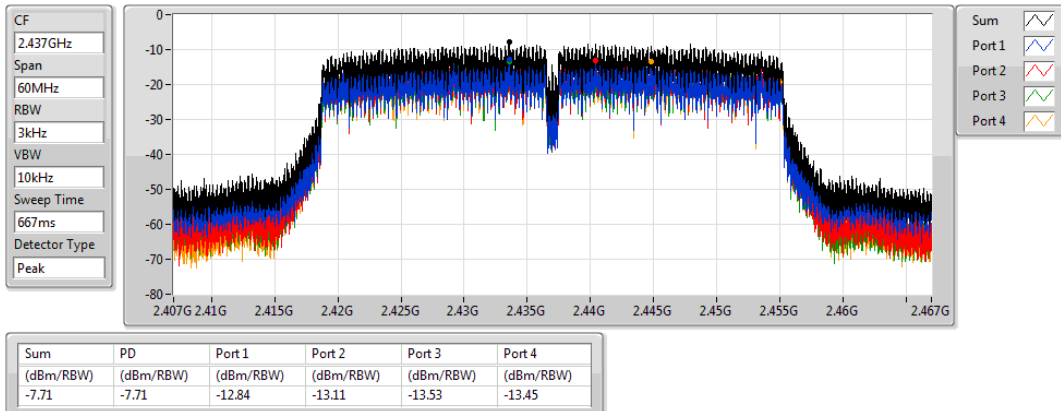


VHT40_Nss1,(MCS0)_4TX

PSD

2437MHz

03/07/2019

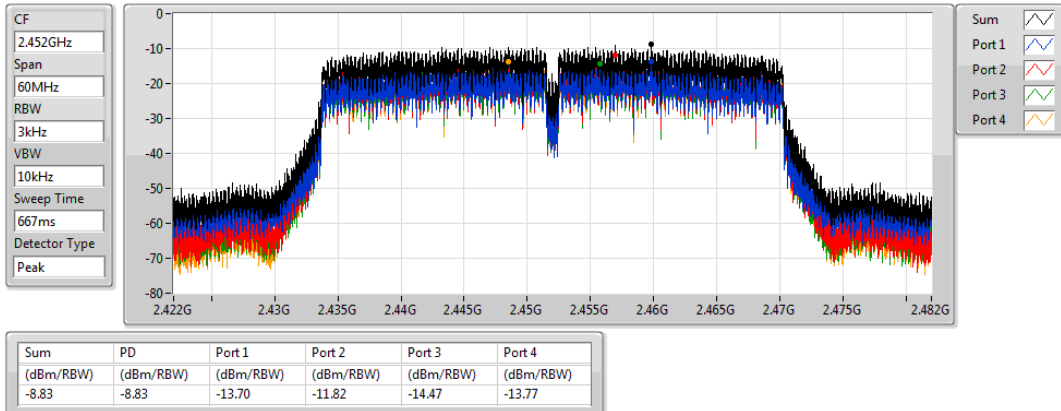


VHT40_Nss1,(MCS0)_4TX

PSD

2452MHz

03/07/2019



**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	2.43641G	13.20	-16.80	727.84M	-61.97	2.39856G	-34.82	2.48542G	-54.80	7.23514G	-48.74	2
802.11g_Nss1,(6Mbps)_4TX	Pass	2.43824G	9.61	-20.39	2.30408G	-55.49	2.39952G	-51.84	2.48414G	-30.97	2.5235G	-54.31	1
VHT20_Nss1,(MCS0)_4TX	Pass	2.43941G	10.50	-19.50	2.30408G	-54.50	2.39808G	-53.60	2.48446G	-32.56	16.63031G	-55.31	1
VHT40_Nss1,(MCS0)_4TX	Pass	2.42822G	3.45	-26.55	2.30512G	-55.03	2.39968G	-45.04	2.48462G	-36.27	24.2652G	-55.59	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43641G	13.20	-16.80	2.30408G	-54.12	2.39352G	-40.54	2.49598G	-52.95	7.23514G	-48.22	1
2412MHz	Pass	2.43641G	13.20	-16.80	727.84M	-61.97	2.39856G	-34.82	2.48542G	-54.80	7.23514G	-48.74	2
2412MHz	Pass	2.43641G	13.20	-16.80	2.30408G	-61.95	2.39856G	-34.96	2.4847G	-55.62	7.23514G	-48.29	3
2412MHz	Pass	2.43641G	13.20	-16.80	823.37M	-62.18	2.39856G	-37.32	2.49374G	-55.05	7.23514G	-48.83	4
2437MHz	Pass	2.43641G	13.20	-16.80	2.30408G	-53.68	2.39056G	-50.83	2.48646G	-50.35	24.76962G	-55.58	1
2437MHz	Pass	2.43641G	13.20	-16.80	1.62489G	-56.87	2.39952G	-38.59	2.4875G	-45.72	16.42522G	-55.64	2
2437MHz	Pass	2.43641G	13.20	-16.80	1.62489G	-55.43	2.39952G	-41.22	2.4855G	-47.82	16.50669G	-55.59	3
2437MHz	Pass	2.43641G	13.20	-16.80	1.62489G	-56.80	2.39952G	-38.22	2.4875G	-46.84	16.79046G	-55.35	4
2462MHz	Pass	2.43641G	13.20	-16.80	2.30408G	-53.68	2.39144G	-55.68	2.48646G	-45.00	15.08505G	-55.82	1
2462MHz	Pass	2.43641G	13.20	-16.80	95.24M	-59.74	2.39576G	-55.61	2.48598G	-46.68	16.43083G	-55.57	2
2462MHz	Pass	2.43641G	13.20	-16.80	1.6412G	-60.76	2.3972G	-55.29	2.48798G	-50.57	15.13001G	-55.48	3
2462MHz	Pass	2.43641G	13.20	-16.80	2.11535G	-60.34	2.39936G	-56.75	2.48646G	-45.99	15.19463G	-54.39	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	9.61	-20.39	2.30408G	-57.05	2.3968G	-36.80	2.49598G	-54.54	7.24076G	-55.57	1
2412MHz	Pass	2.43824G	9.61	-20.39	2.30408G	-59.29	2.39768G	-33.31	2.50438G	-55.32	15.25925G	-55.47	2
2412MHz	Pass	2.43824G	9.61	-20.39	2.30059G	-60.76	2.39704G	-34.28	2.4967G	-55.95	16.73427G	-55.62	3
2412MHz	Pass	2.43824G	9.61	-20.39	191.94M	-61.49	2.39704G	-39.25	2.48654G	-56.54	7.22952G	-54.91	4
2437MHz	Pass	2.43824G	9.61	-20.39	2.30408G	-54.21	2.39832G	-43.16	2.48358G	-47.68	16.45331G	-55.04	1
2437MHz	Pass	2.43824G	9.61	-20.39	2.30408G	-59.75	2.3992G	-42.44	2.4839G	-45.55	16.49264G	-55.58	2
2437MHz	Pass	2.43824G	9.61	-20.39	2.30408G	-59.99	2.39704G	-41.08	2.48502G	-45.69	16.35217G	-55.47	3
2437MHz	Pass	2.43824G	9.61	-20.39	95.24M	-61.06	2.39984G	-42.56	2.48382G	-46.60	15.20587G	-55.47	4
2462MHz	Pass	2.43824G	9.61	-20.39	2.30408G	-55.49	2.39952G	-51.84	2.48414G	-30.97	2.5235G	-54.31	1
2462MHz	Pass	2.43824G	9.61	-20.39	2.30408G	-58.48	2.3908G	-55.80	2.4851G	-43.36	15.20587G	-55.71	2
2462MHz	Pass	2.43824G	9.61	-20.39	2.30408G	-60.43	2.39184G	-55.38	2.48942G	-45.30	15.11877G	-55.93	3
2462MHz	Pass	2.43824G	9.61	-20.39	543.77M	-61.89	2.39968G	-56.56	2.48446G	-43.80	16.88317G	-54.55	4
VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43941G	10.50	-19.50	2.30408G	-55.32	2.3964G	-36.01	2.49598G	-54.28	17.11637G	-55.76	1
2412MHz	Pass	2.43941G	10.50	-19.50	2.30408G	-59.57	2.3964G	-33.73	2.48366G	-55.40	16.44488G	-55.25	2
2412MHz	Pass	2.43941G	10.50	-19.50	2.30408G	-60.43	2.39736G	-35.23	2.5155G	-55.81	16.45893G	-55.52	3
2412MHz	Pass	2.43941G	10.50	-19.50	95.24M	-59.39	2.3964G	-37.76	2.49598G	-55.33	6.8727G	-55.05	4
2437MHz	Pass	2.43941G	10.50	-19.50	2.30408G	-54.57	2.39984G	-40.25	2.48406G	-43.85	15.1272G	-55.22	1
2437MHz	Pass	2.43941G	10.50	-19.50	543.77M	-61.51	2.3996G	-37.81	2.48374G	-43.02	16.61908G	-55.61	2
2437MHz	Pass	2.43941G	10.50	-19.50	2.30175G	-61.79	2.39616G	-38.87	2.48486G	-42.63	16.81855G	-55.99	3
2437MHz	Pass	2.43941G	10.50	-19.50	2.11652G	-61.87	2.39928G	-37.48	2.48822G	-42.50	21.42905G	-55.74	4
2462MHz	Pass	2.43941G	10.50	-19.50	2.30408G	-54.50	2.39808G	-53.60	2.48446G	-32.56	16.63031G	-55.31	1
2462MHz	Pass	2.43941G	10.50	-19.50	2.30408G	-59.89	2.39552G	-56.18	2.48414G	-42.98	24.61228G	-55.68	2
2462MHz	Pass	2.43941G	10.50	-19.50	2.30059G	-61.70	2.39824G	-55.81	2.48422G	-45.04	15.18901G	-55.35	3
2462MHz	Pass	2.43941G	10.50	-19.50	2.30408G	-60.94	2.39976G	-57.23	2.48358G	-44.94	5.90902G	-55.63	4
VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42822G	3.45	-26.55	2.30512G	-57.14	2.39664G	-42.94	2.49598G	-54.51	16.40682G	-55.76	1
2422MHz	Pass	2.42822G	3.45	-26.55	2.30512G	-60.53	2.39888G	-38.76	2.4859G	-55.66	16.7013G	-55.60	2
2422MHz	Pass	2.42822G	3.45	-26.55	2.02459G	-61.30	2.39856G	-43.48	2.48462G	-55.37	6.84326G	-55.62	3
2422MHz	Pass	2.42822G	3.45	-26.55	95.27M	-60.94	2.39712G	-44.56	2.48718G	-53.56	16.44328G	-54.37	4
2437MHz	Pass	2.42822G	3.45	-26.55	2.30512G	-54.11	2.39872G	-37.65	2.48558G	-40.76	16.57509G	-55.74	1
2437MHz	Pass	2.42822G	3.45	-26.55	2.30397G	-61.14	2.39952G	-40.59	2.48942G	-45.62	16.83311G	-55.94	2
2437MHz	Pass	2.42822G	3.45	-26.55	2.30512G	-60.62	2.392G	-41.82	2.48478G	-44.65	16.72654G	-55.51	3
2437MHz	Pass	2.42822G	3.45	-26.55	2.30512G	-59.05	2.39856G	-43.90	2.48862G	-46.15	16.74617G	-55.33	4



CSE(Non-restricted Band)

Appendix E

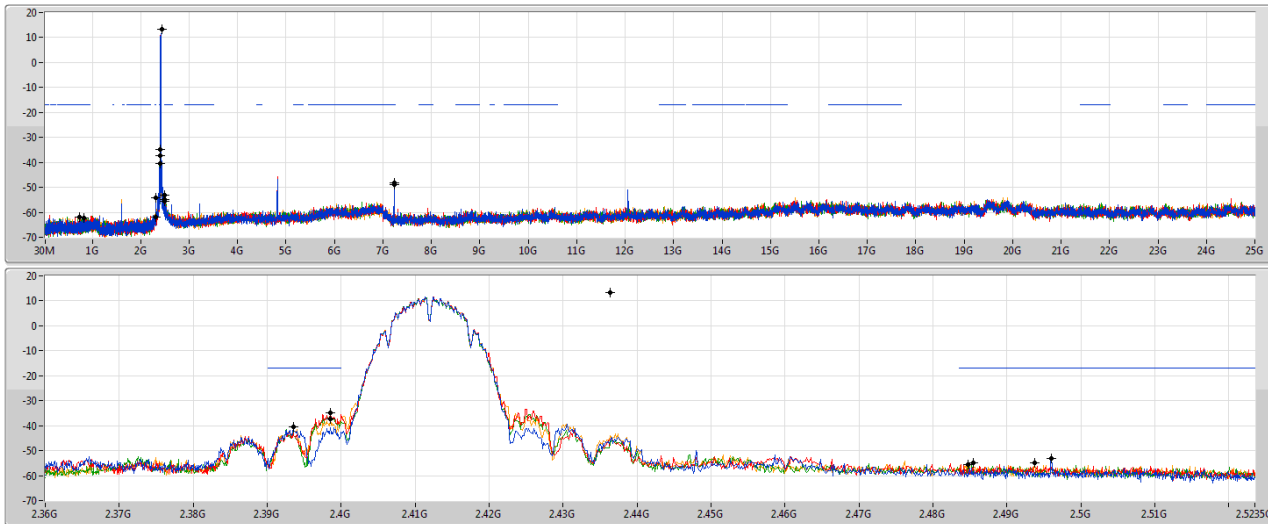
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2452MHz	Pass	2.42822G	3.45	-26.55	2.30512G	-55.03	2.39968G	-45.04	2.48462G	-36.27	24.2652G	-55.59	1
2452MHz	Pass	2.42822G	3.45	-26.55	544.11M	-60.67	2.39952G	-48.62	2.48942G	-44.70	16.87518G	-55.11	2
2452MHz	Pass	2.42822G	3.45	-26.55	2.30626G	-61.98	2.39328G	-52.69	2.48638G	-44.83	16.46572G	-55.47	3
2452MHz	Pass	2.42822G	3.45	-26.55	913.94M	-61.40	2.39952G	-52.86	2.48446G	-44.39	16.38719G	-54.79	4

802.11b_Nss1,(1Mbps)_4TX

2412MHz

CSE NdB

03/07/2019



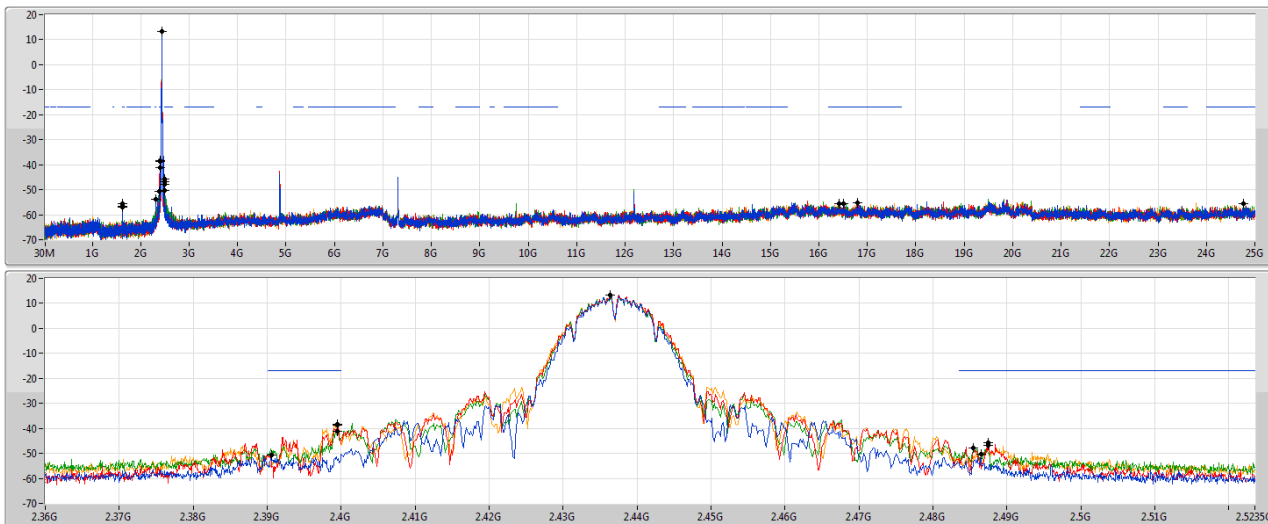
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2.43641G	13.20	-16.80	2.30408G	-54.12	2.39352G	-40.54	2.49598G	-52.95	7.23514G	-48.22	1
2.43641G	13.20	-16.80	727.84M	-61.97	2.39856G	-34.82	2.48542G	-54.80	7.23514G	-48.74	2
2.43641G	13.20	-16.80	2.30408G	-61.95	2.39856G	-34.96	2.4847G	-55.62	7.23514G	-48.29	3
2.43641G	13.20	-16.80	823.37M	-62.18	2.39856G	-37.32	2.49374G	-55.05	7.23514G	-48.83	4

802.11b_Nss1,(1Mbps)_4TX

2437MHz

CSE NdB

03/07/2019



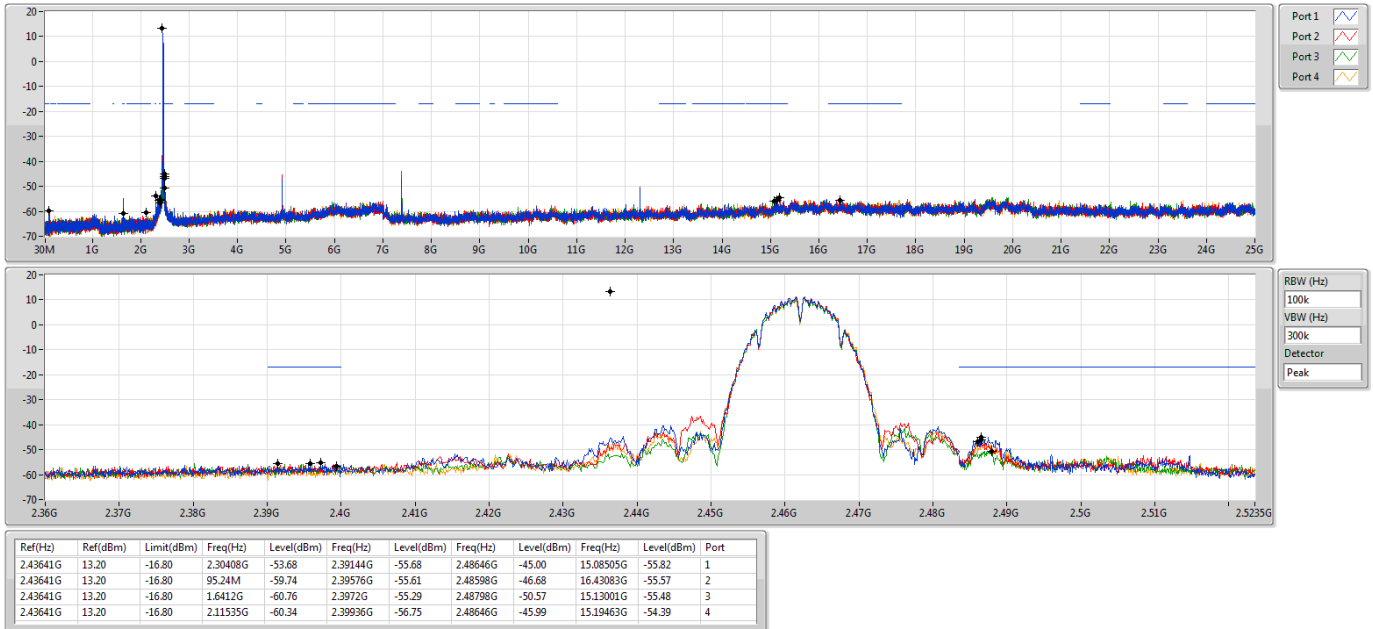
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2.43641G	13.20	-16.80	2.30408G	-53.68	2.39056G	-50.83	2.48646G	-50.35	24.76962G	-55.58	1
2.43641G	13.20	-16.80	1.62489G	-56.87	2.39952G	-38.59	2.4875G	-45.72	16.42522G	-55.64	2
2.43641G	13.20	-16.80	1.62489G	-55.43	2.39952G	-41.22	2.4855G	-47.82	16.50669G	-55.59	3
2.43641G	13.20	-16.80	1.62489G	-56.80	2.39952G	-38.22	2.4875G	-46.84	16.79046G	-55.35	4

802.11b_Nss1,(1Mbps)_4TX

2462MHz

CSE NdB

03/07/2019

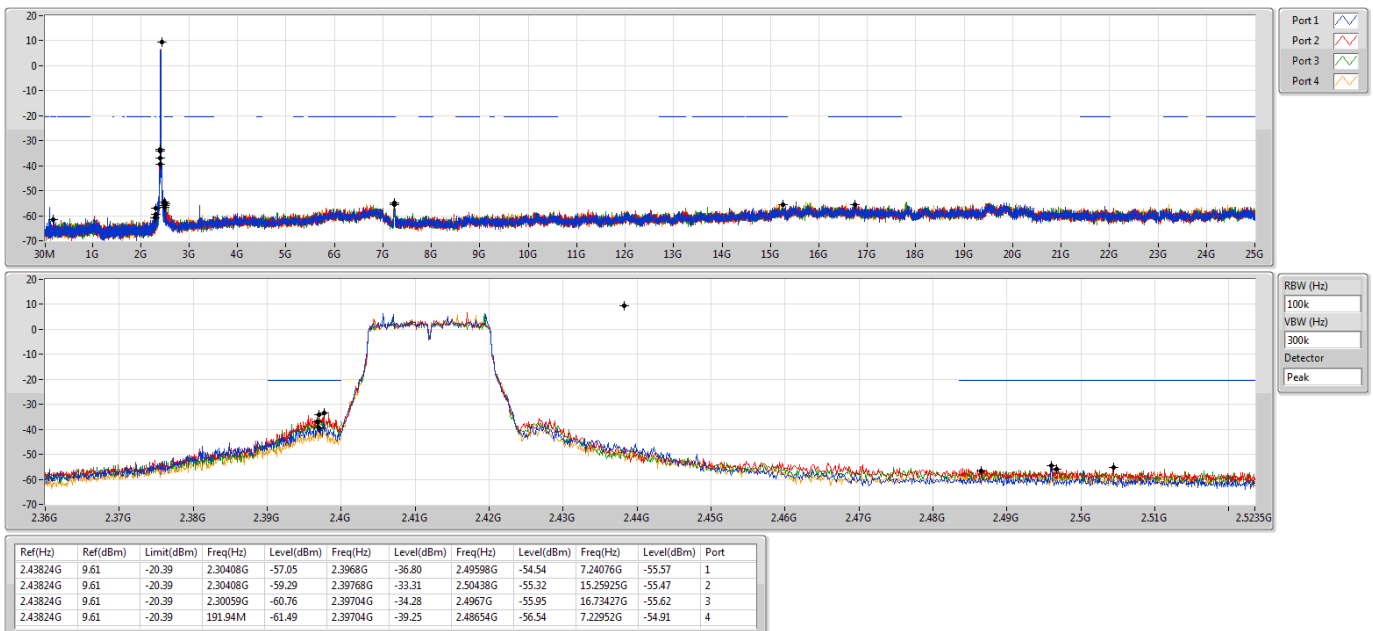


802.11g_Nss1,(6Mbps)_4TX

2412MHz

CSE NdB

03/07/2019

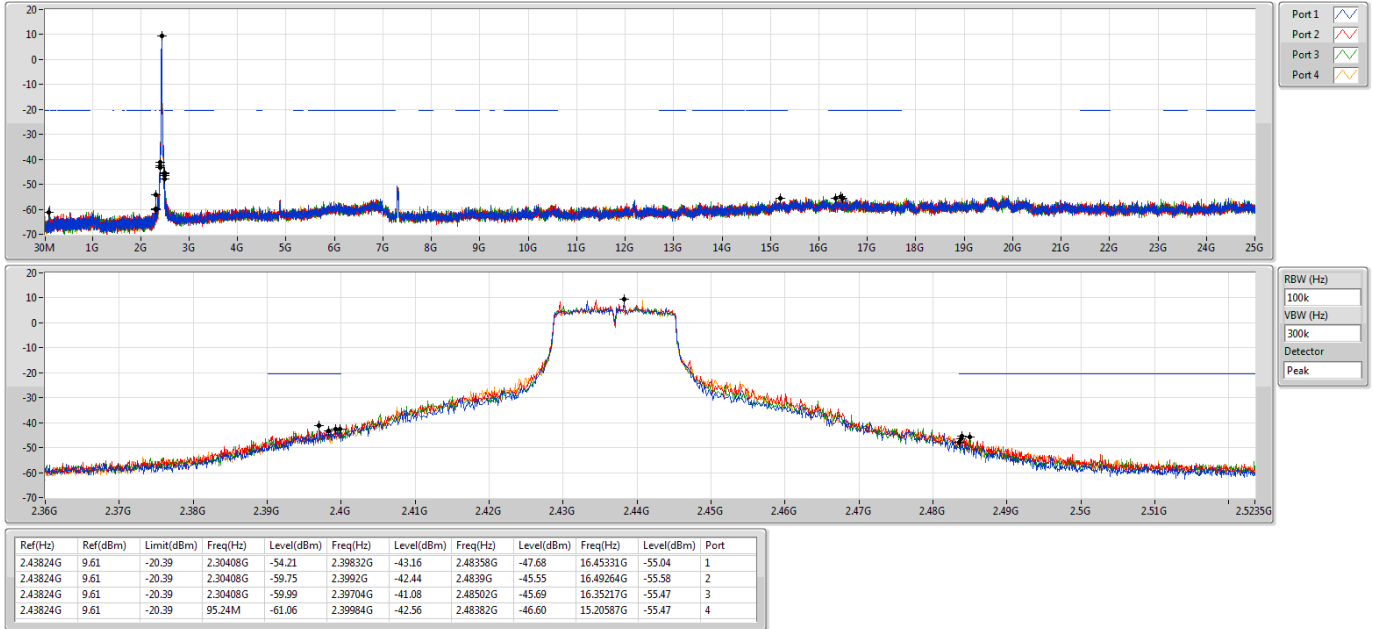


802.11g_Nss1,(6Mbps)_4TX

CSE NdB

2437MHz

03/07/2019

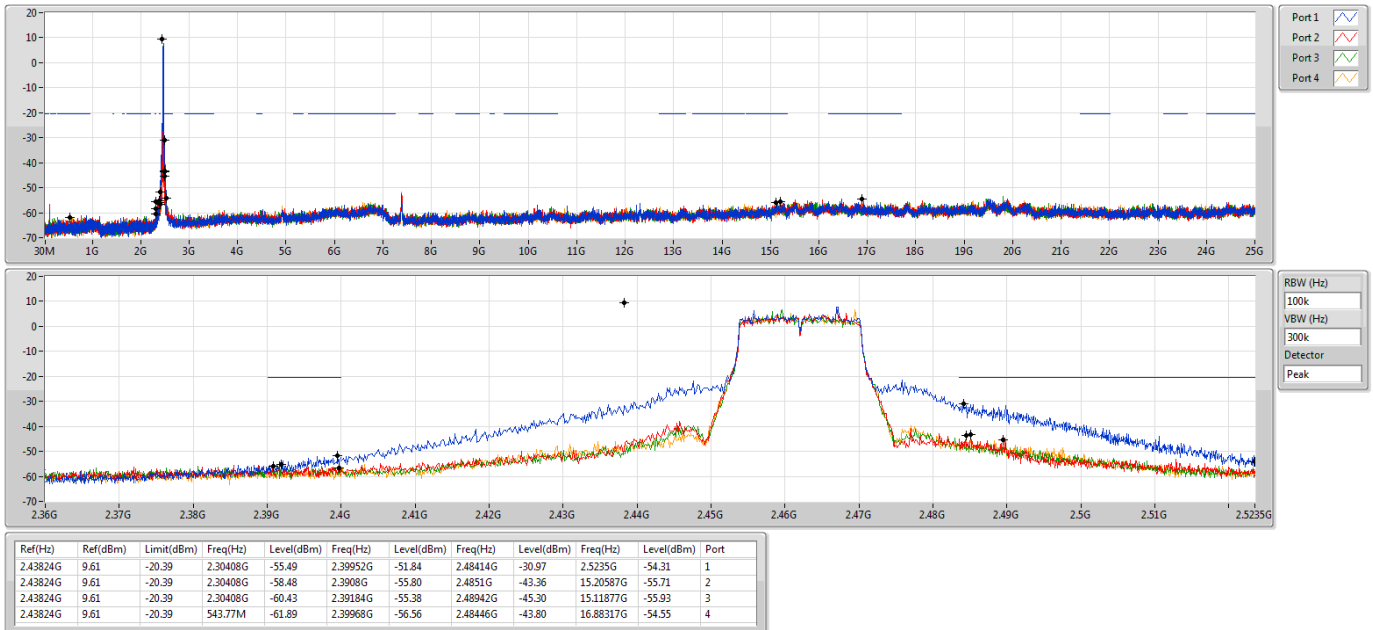


802.11g_Nss1,(6Mbps)_4TX

CSE NdB

2462MHz

03/07/2019

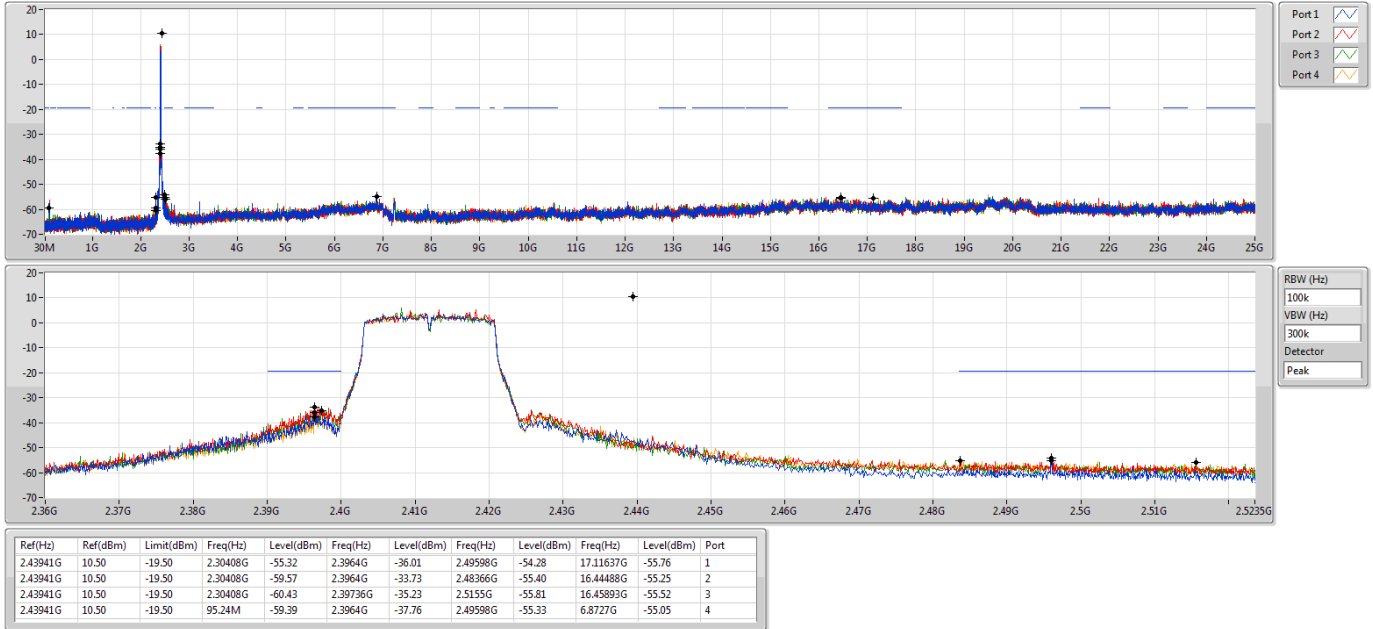


VHT20_Nss1,(MCS0)_4TX

2412MHz

CSE NdB

03/07/2019

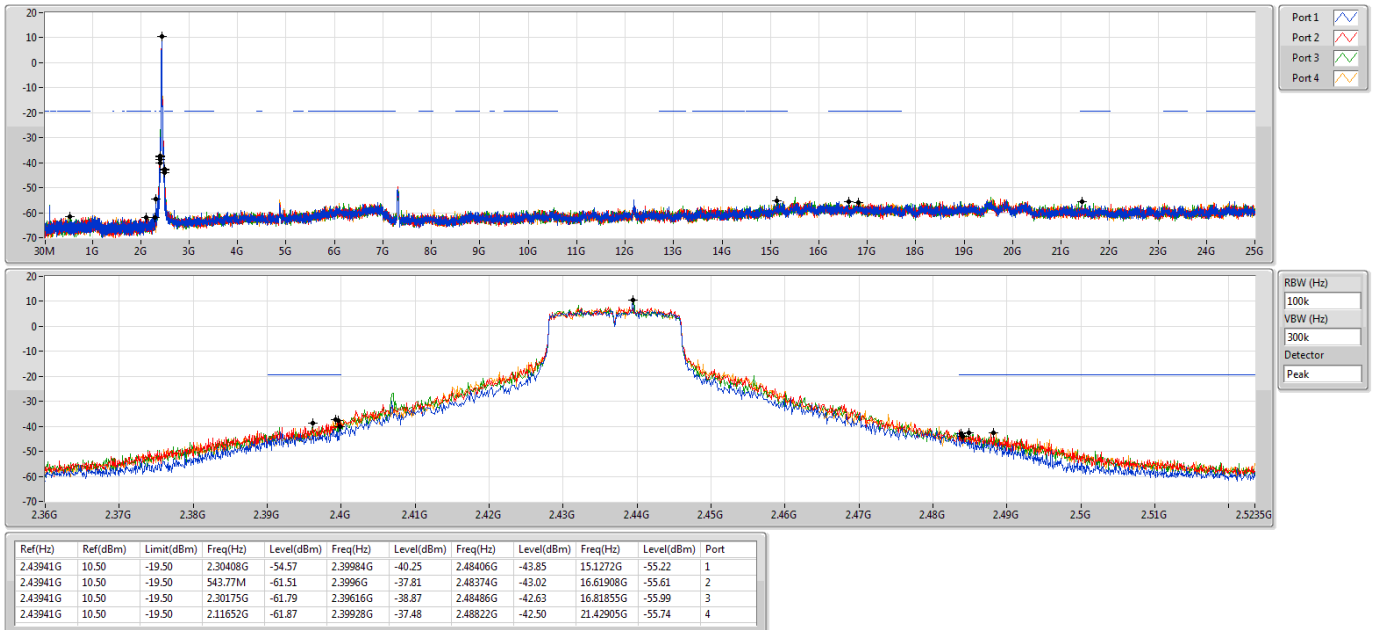


VHT20_Nss1,(MCS0)_4TX

2437MHz

CSE NdB

03/07/2019

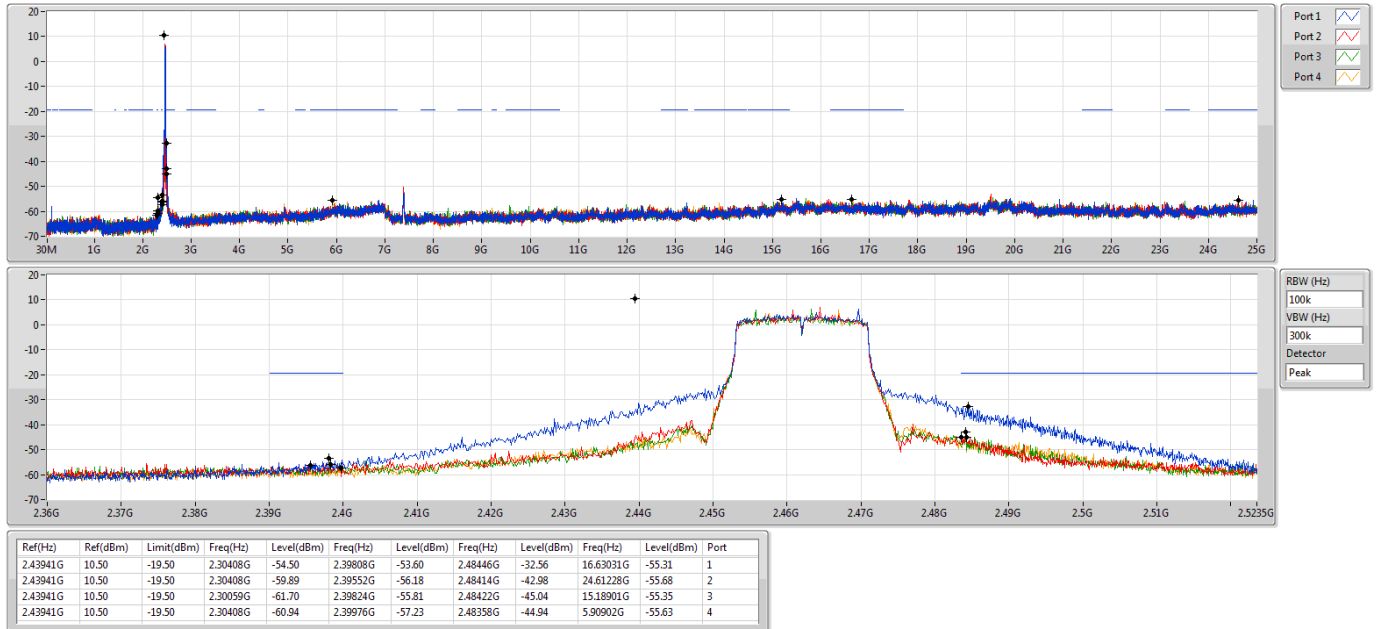


VHT20_Nss1,(MCS0)_4TX

2462MHz

CSE NdB

03/07/2019

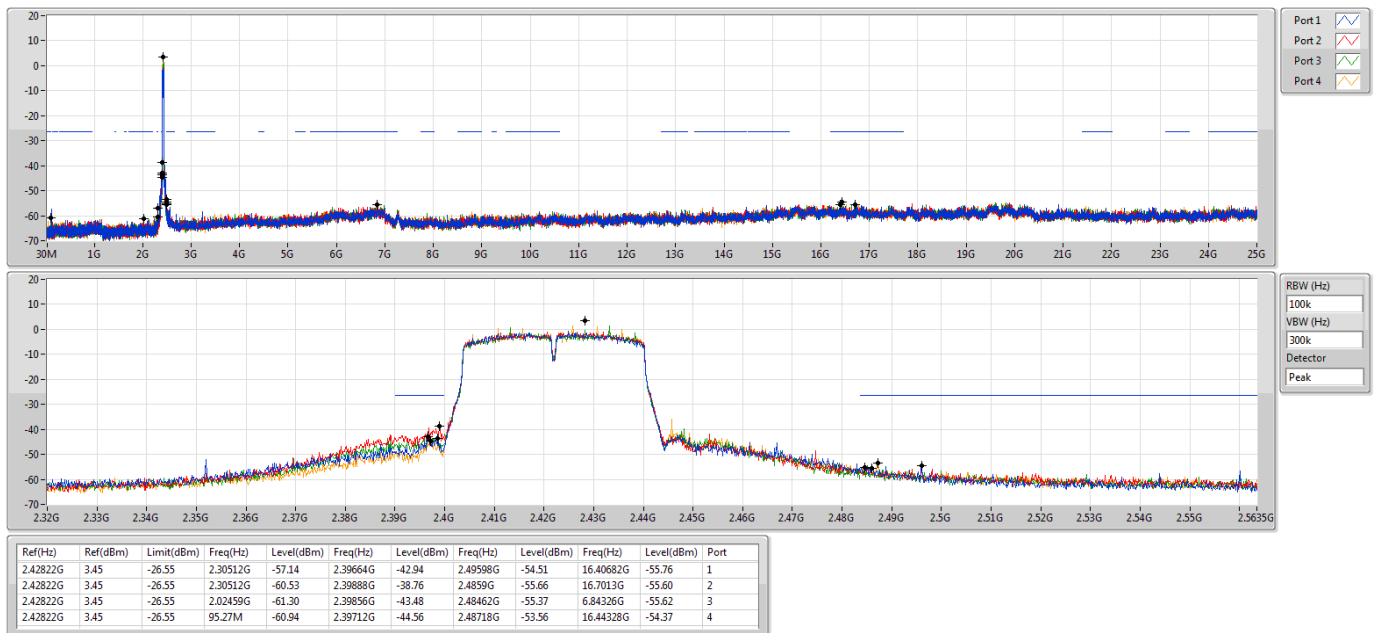


VHT40_Nss1,(MCS0)_4TX

2422MHz

CSE NdB

03/07/2019

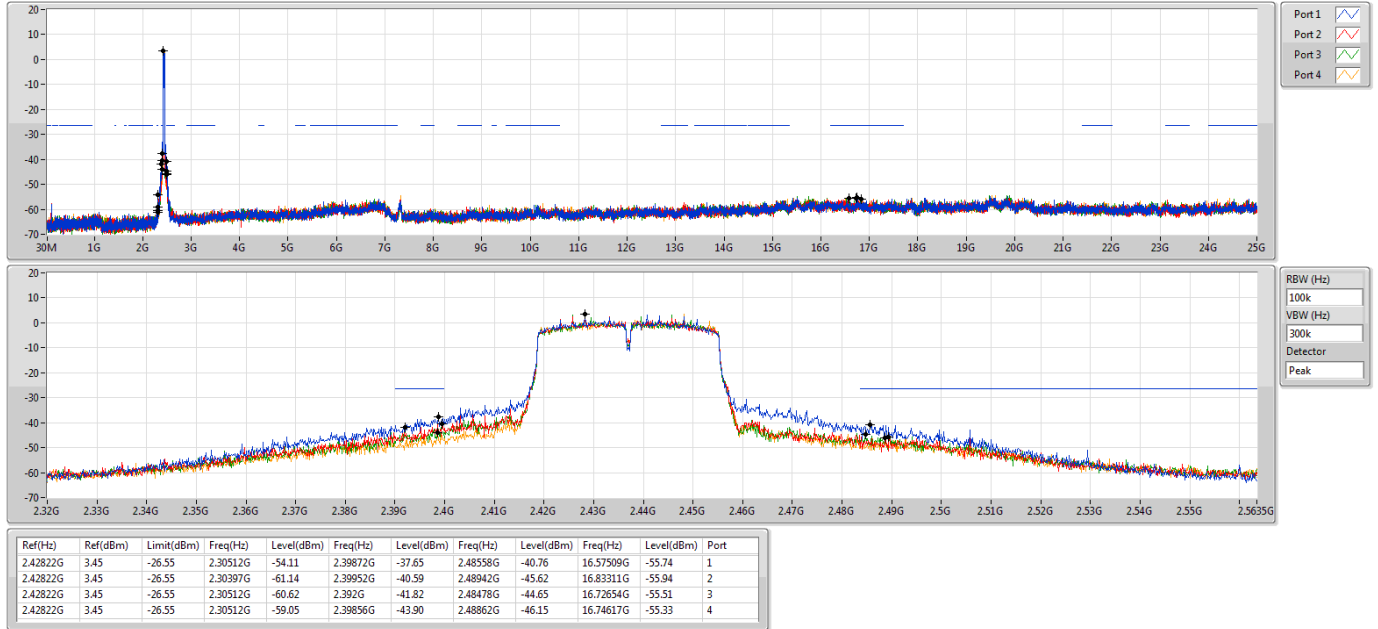


VHT40_Nss1,(MCS0)_4TX

2437MHz

CSE NdB

03/07/2019

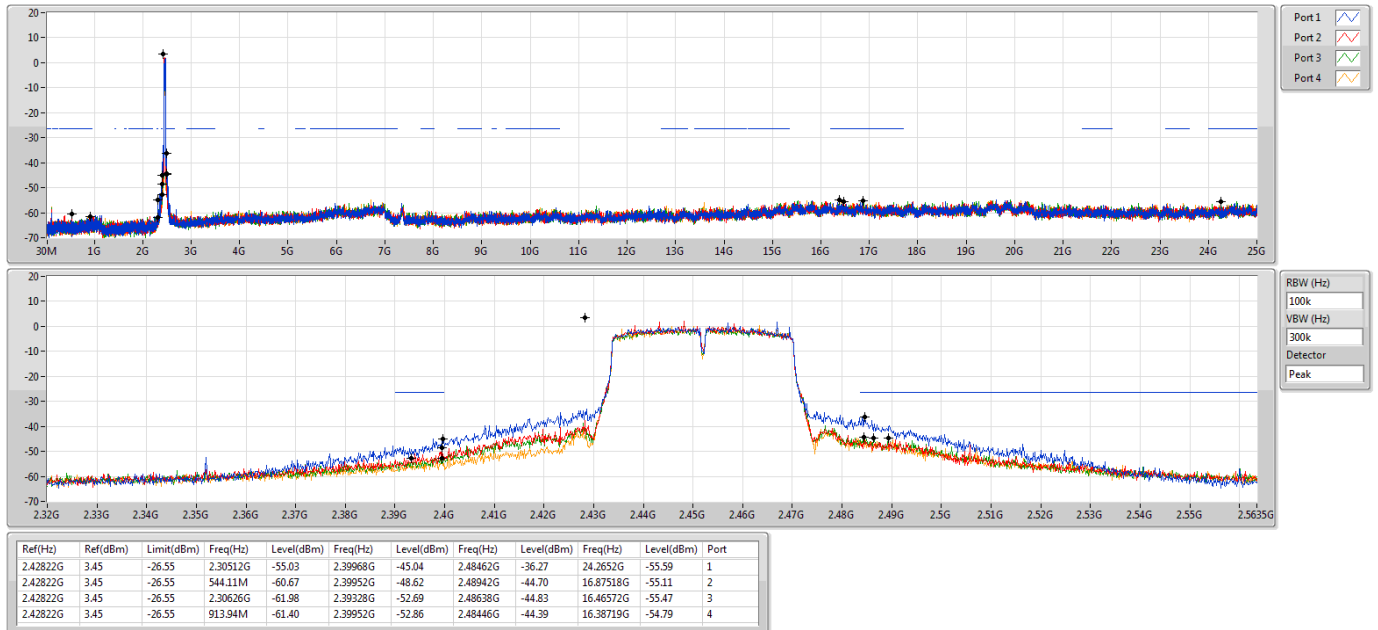


VHT40_Nss1,(MCS0)_4TX

2452MHz

CSE NdB

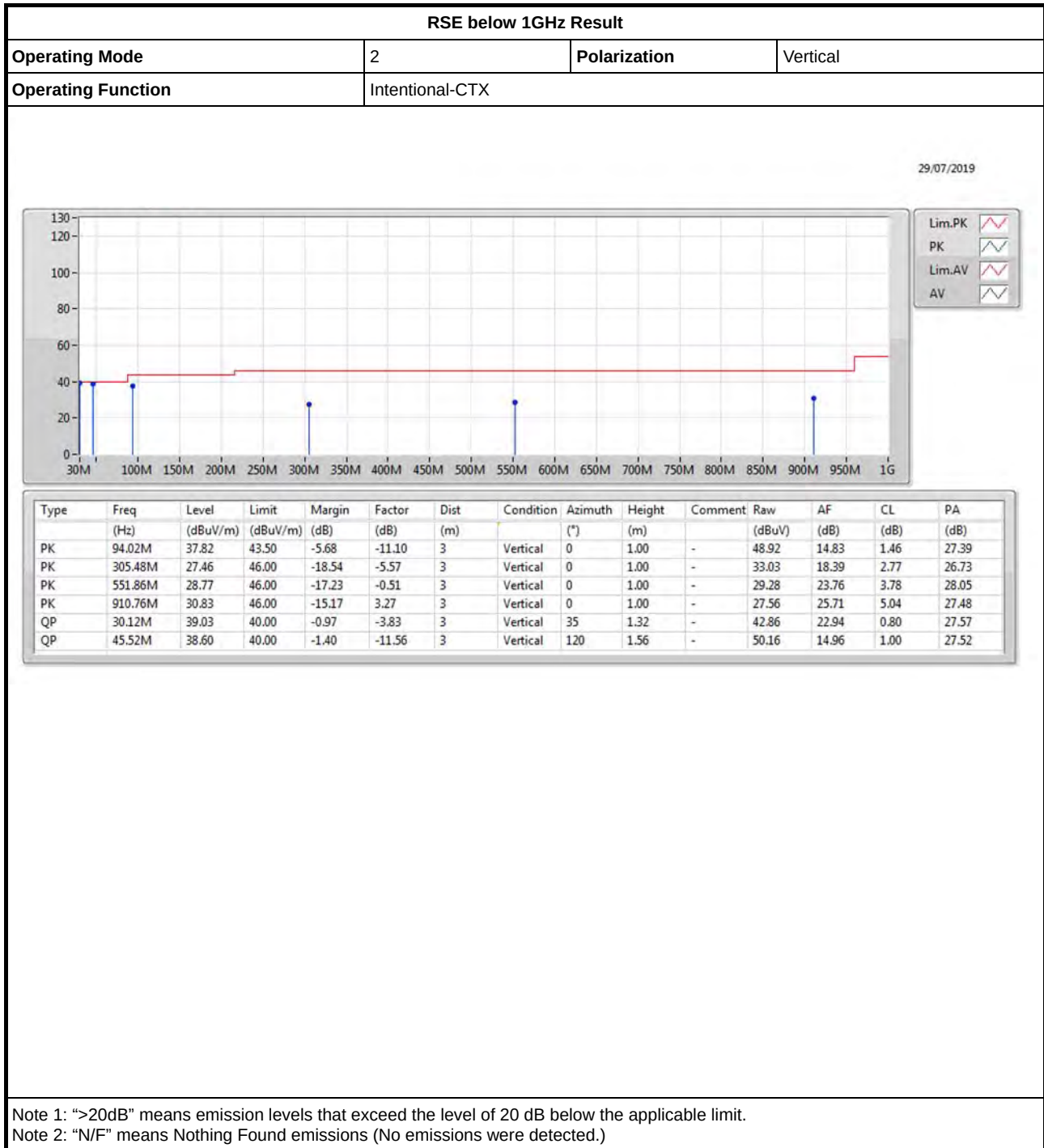
03/07/2019





Results of Radiated Emissions (30-1GHz and Unintentional 1GHz~5th Harmonic)

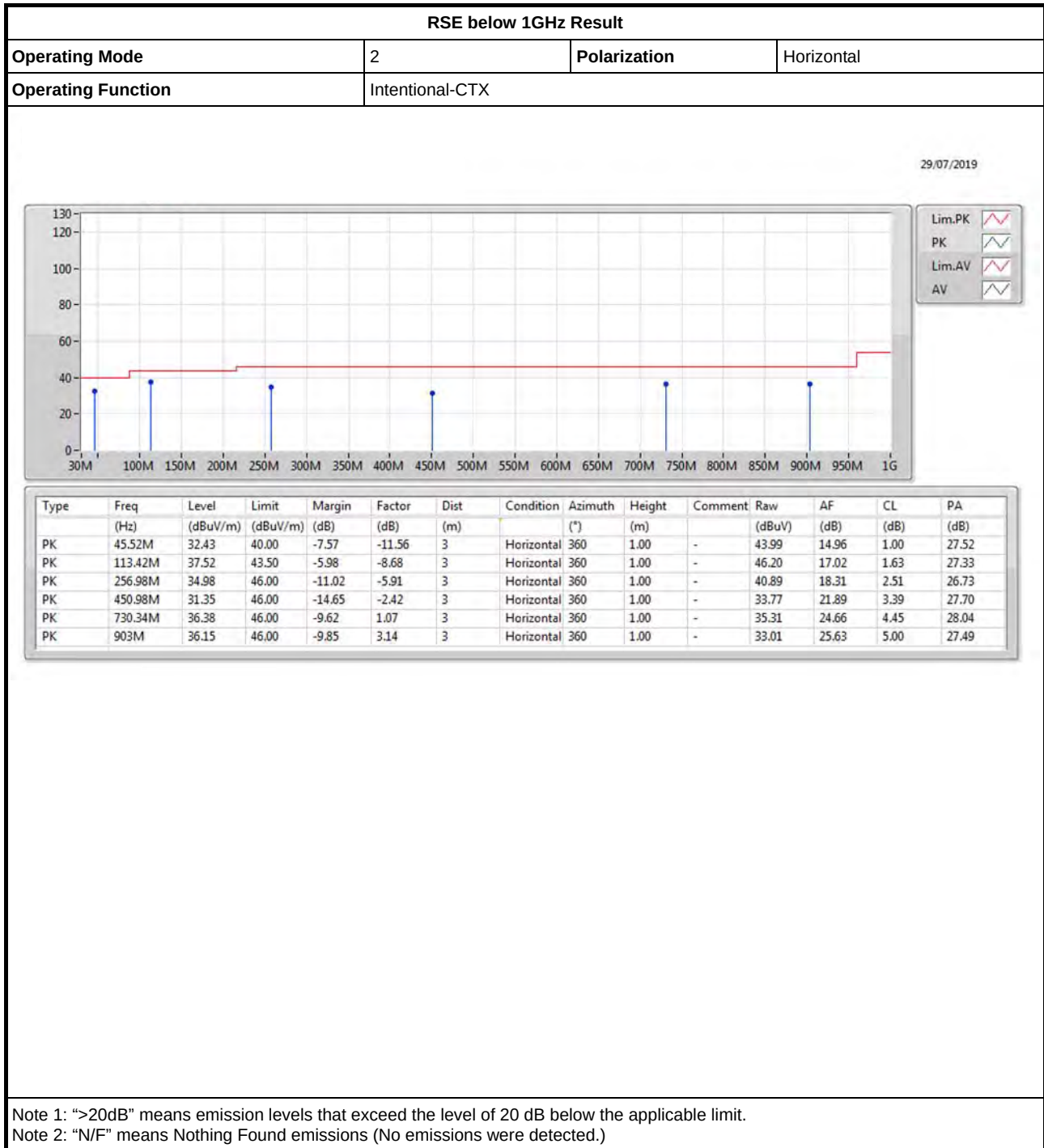
Appendix F.1





Results of Radiated Emissions (30-1GHz and Unintentional 1GHz~5th Harmonic)

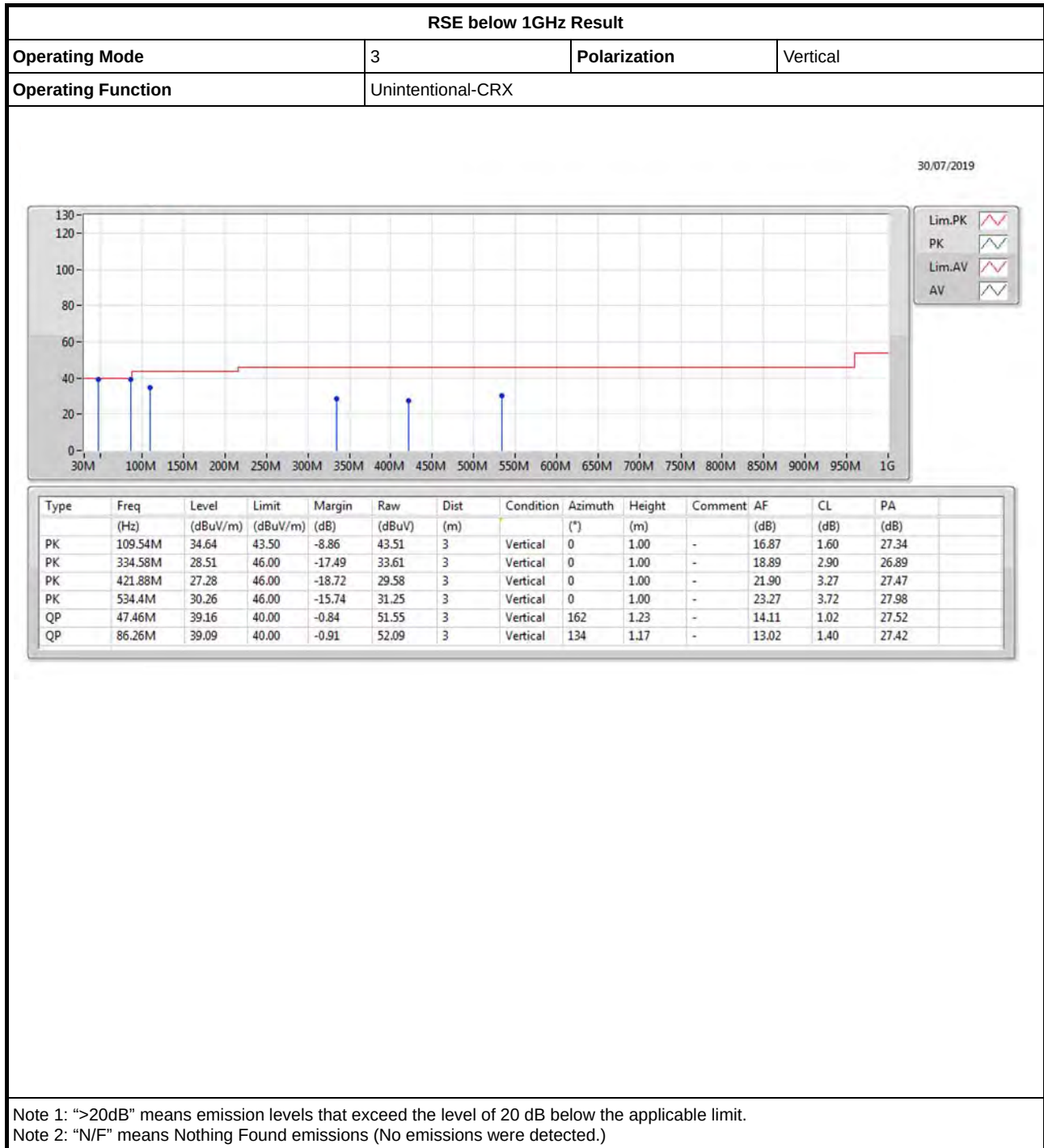
Appendix F.1





Results of Radiated Emissions (30-1GHz and Unintentional 1GHz~5th Harmonic)

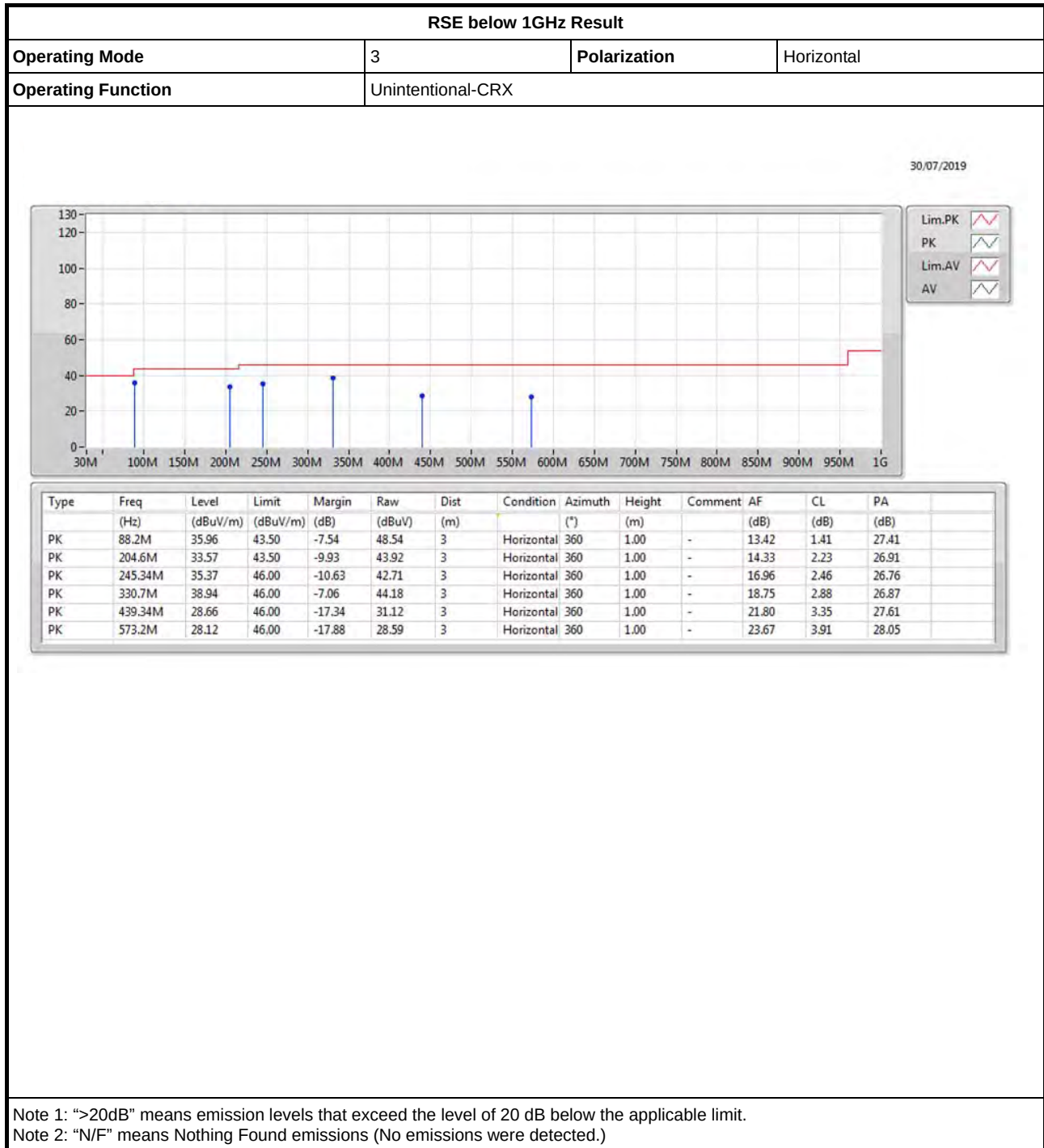
Appendix F.1





Results of Radiated Emissions (30-1GHz and Unintentional 1GHz~5th Harmonic)

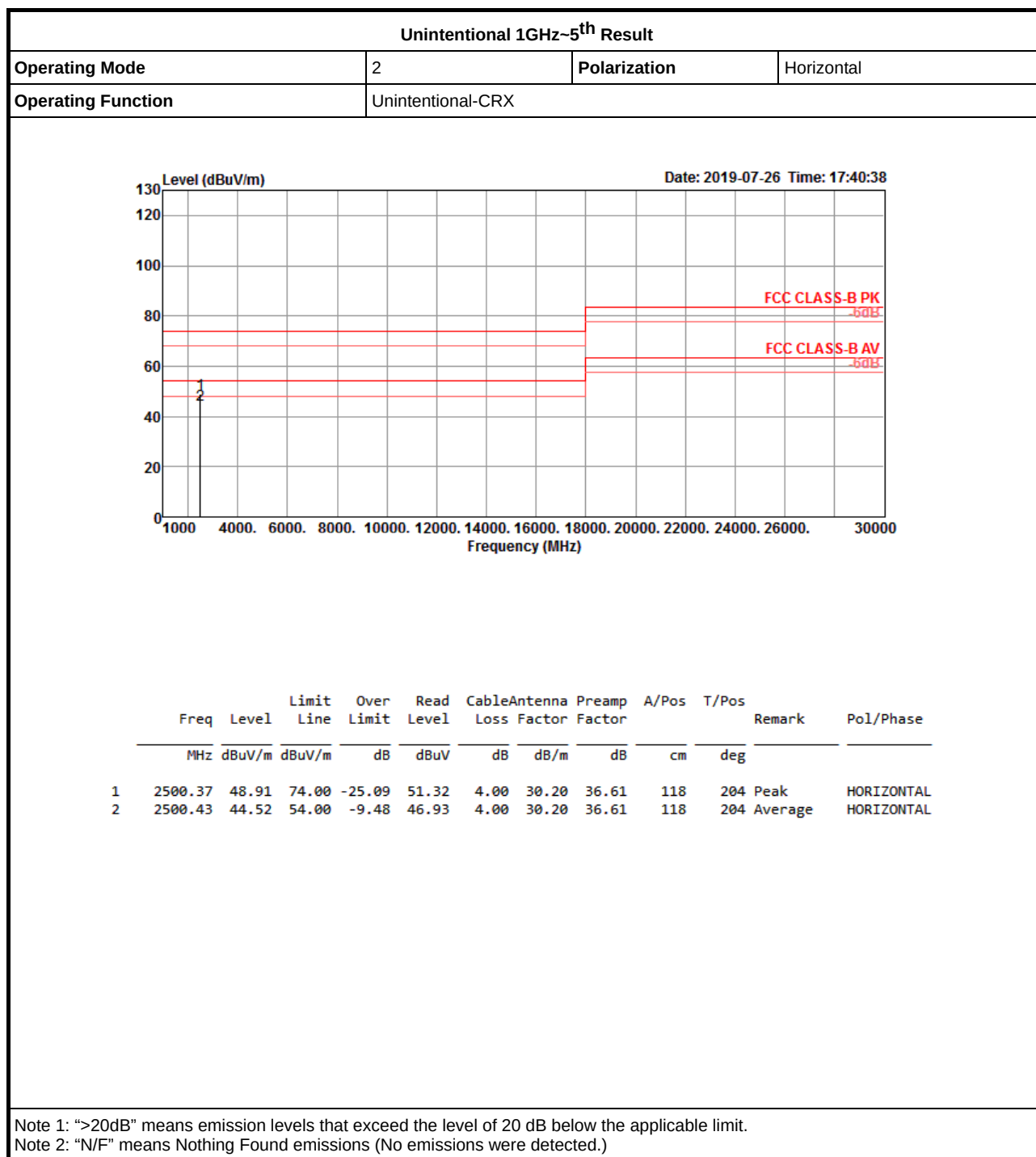
Appendix F.1





Results of Radiated Emissions (30-1GHz and Unintentional 1GHz~5th Harmonic)

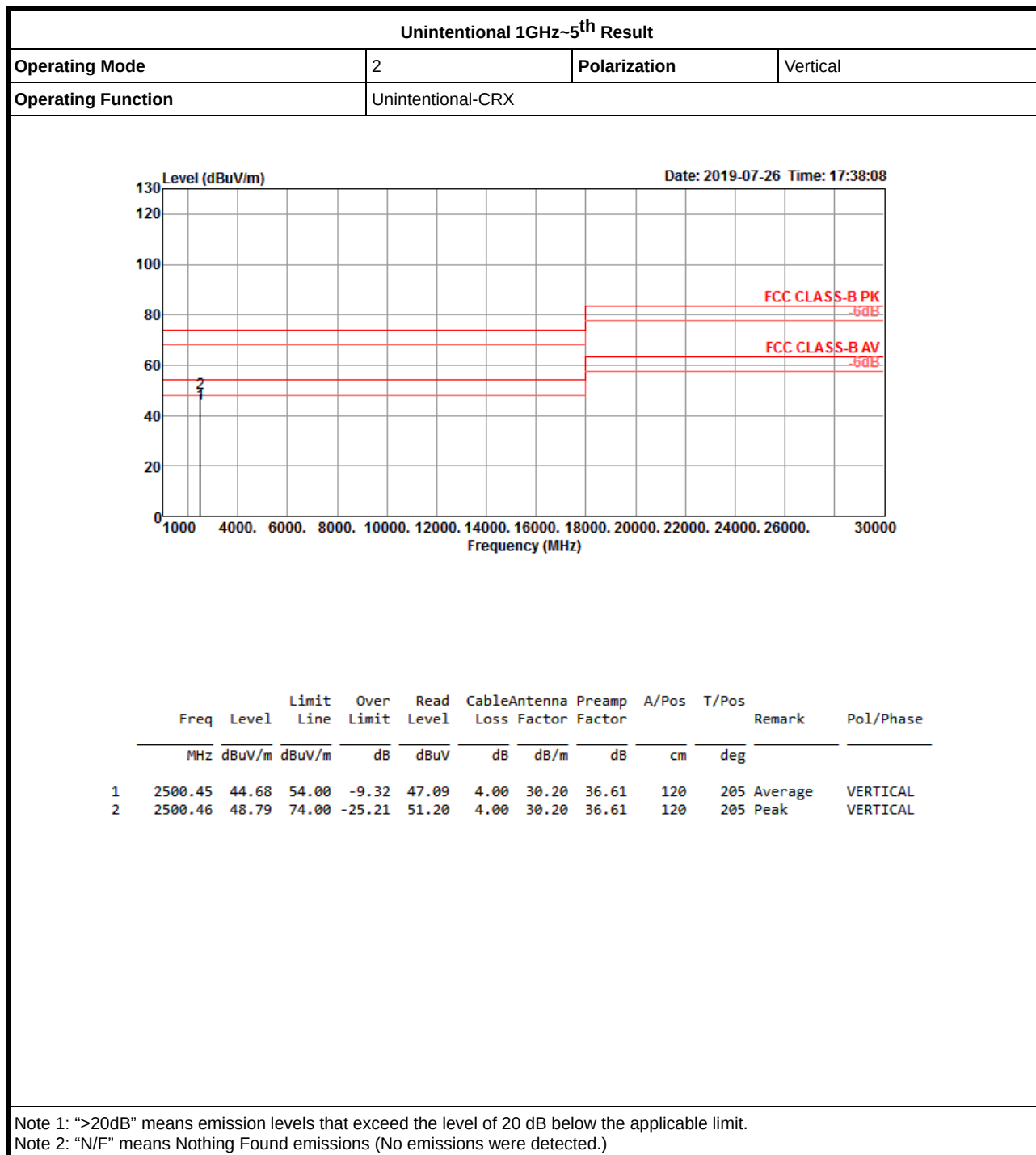
Appendix F.1





Results of Radiated Emissions (30-1GHz and Unintentional 1GHz~5th Harmonic)

Appendix F.1





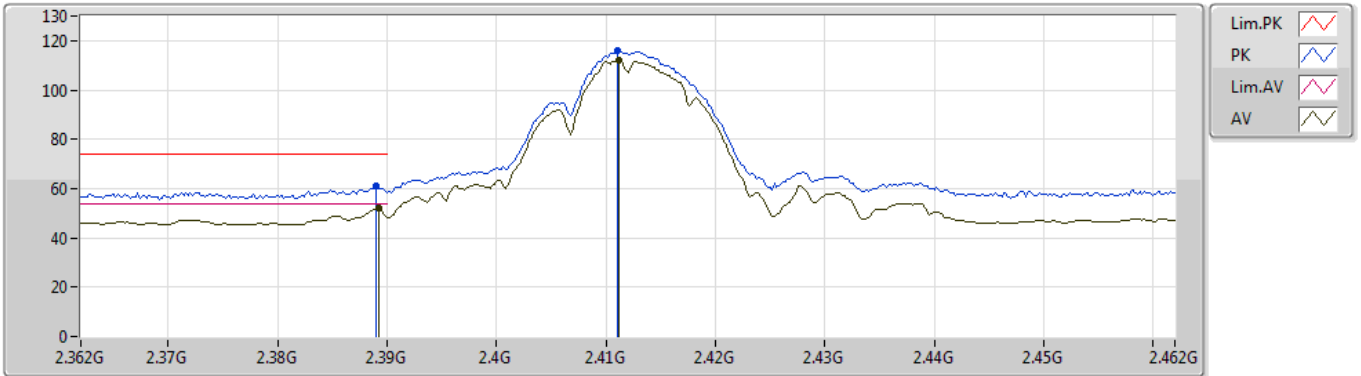
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
VHT40_Nss1,(MCS0)_4TX	Pass	AV	2.4866G	53.91	54.00	-0.09	32.42	3	Vertical	73	2.73

802.11b_Nss1,(1Mbps)_4TX

02/07/2019

2412MHz_TX



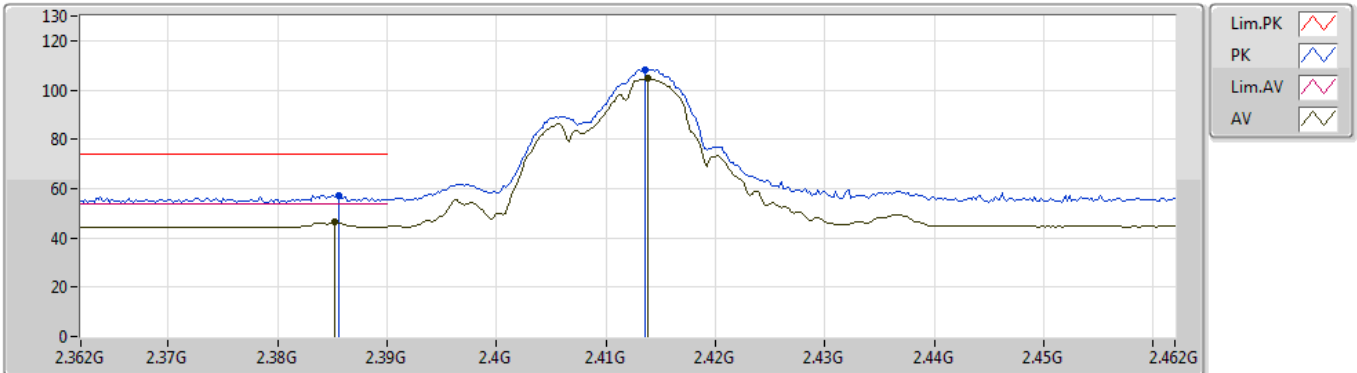
EUT_Z_4TX
Setting 20.5
03-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.389G	61.29	74.00	-12.71	31.93	3	Vertical	123	2.41	-				
AV	2.3892G	51.89	54.00	-2.11	31.93	3	Vertical	123	2.41	-				
PK	2.411G	115.87	Inf	-Inf	32.00	3	Vertical	123	2.41	-				
AV	2.4112G	112.16	Inf	-Inf	32.00	3	Vertical	123	2.41	-				

802.11b_Nss1,(1Mbps)_4TX

02/07/2019

2412MHz_TX



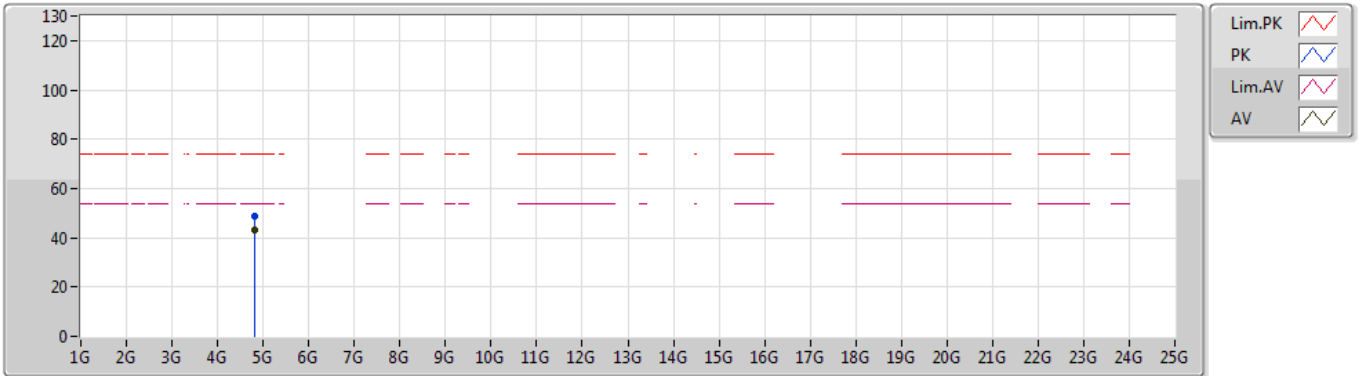
EUT_Z_4TX
Setting 20.5
03-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	2.3856G	57.32	74.00	-16.68	31.92	3	Horizontal	30	1.50	-			
AV	2.3852G	46.36	54.00	-7.64	31.92	3	Horizontal	30	1.50	-			
PK	2.4136G	108.18	Inf	-Inf	32.01	3	Horizontal	30	1.50	-			
AV	2.4138G	104.81	Inf	-Inf	32.01	3	Horizontal	30	1.50	-			

802.11b_Nss1,(1Mbps)_4TX

02/07/2019

2412MHz_TX



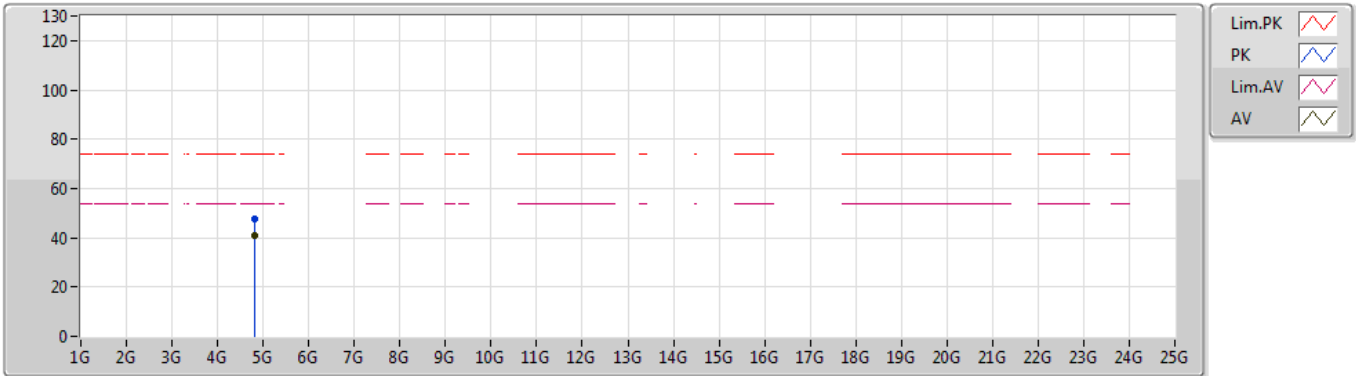
EUT_Z_4TX
Setting 20.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.8241G	48.94	74.00	-25.06	7.17	3	Vertical	43	1.50	-				
AV	4.82402G	42.92	54.00	-11.08	7.17	3	Vertical	43	1.50	-				

802.11b_Nss1,(1Mbps)_4TX

02/07/2019

2412MHz_TX



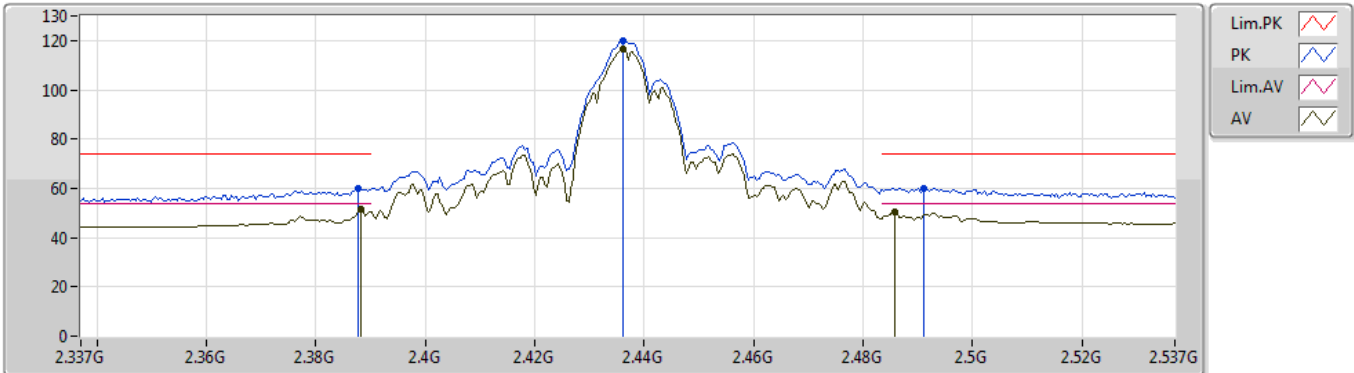
EUT_Z_4TX
Setting 20.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82402G	47.88	74.00	-26.12	7.17	3	Horizontal	161	1.02	-				
AV	4.82404G	40.69	54.00	-13.31	7.17	3	Horizontal	161	1.02	-				

802.11b_Nss1,(1Mbps)_4TX

24/06/2019

2437MHz_TX



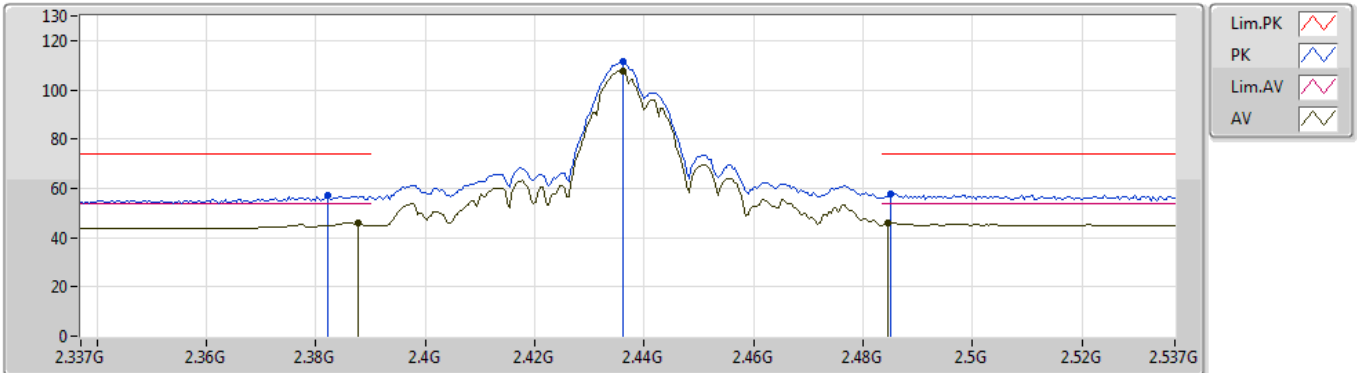
EUT_Z_4TX
Setting 22
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3878G	59.86	74.00	-14.14	32.11	3	Vertical	0	2.54	-
AV	2.3882G	51.29	54.00	-2.71	32.11	3	Vertical	0	2.54	-
PK	2.4362G	120.18	Inf	-Inf	32.27	3	Vertical	0	2.54	-
AV	2.4362G	116.50	Inf	-Inf	32.27	3	Vertical	0	2.54	-
PK	2.491G	59.85	74.00	-14.15	32.43	3	Vertical	0	2.54	-
AV	2.4858G	50.39	54.00	-3.61	32.42	3	Vertical	0	2.54	-

802.11b_Nss1,(1Mbps)_4TX

24/06/2019

2437MHz_TX



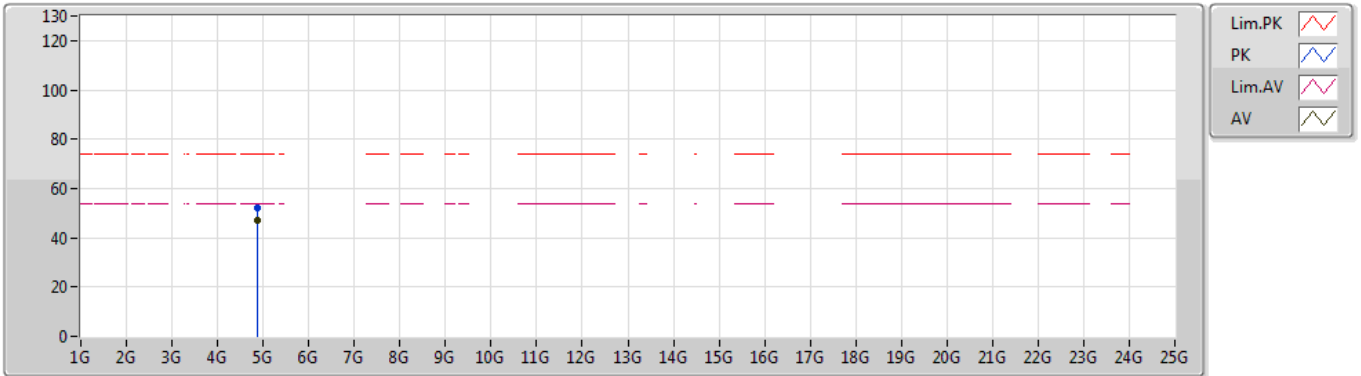
EUT_Z_4TX
Setting 22
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3822G	56.99	74.00	-17.01	32.10	3	Horizontal	338	2.95	-
AV	2.3878G	45.95	54.00	-8.05	32.11	3	Horizontal	338	2.95	-
PK	2.4362G	111.47	Inf	-Inf	32.27	3	Horizontal	338	2.95	-
AV	2.4362G	107.54	Inf	-Inf	32.27	3	Horizontal	338	2.95	-
PK	2.485G	57.46	74.00	-16.54	32.42	3	Horizontal	338	2.95	-
AV	2.4846G	45.98	54.00	-8.02	32.42	3	Horizontal	338	2.95	-

802.11b_Nss1,(1Mbps)_4TX

24/06/2019

2437MHz_TX



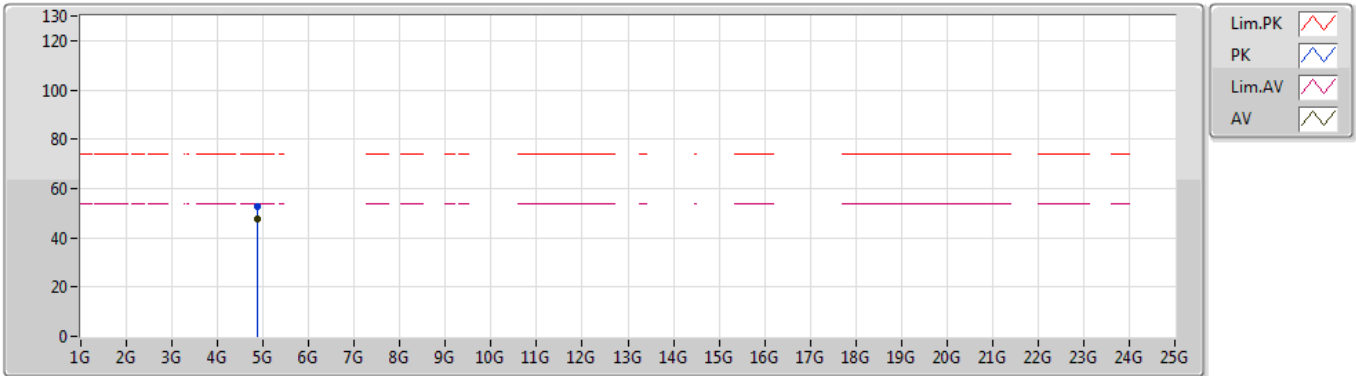
EUT_Z_4TX
Setting 22
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87404G	52.39	74.00	-21.61	6.82	3	Vertical	28	2.74	-				
AV	4.87396G	47.20	54.00	-6.80	6.82	3	Vertical	28	2.74	-				

802.11b_Nss1,(1Mbps)_4TX

24/06/2019

2437MHz_TX



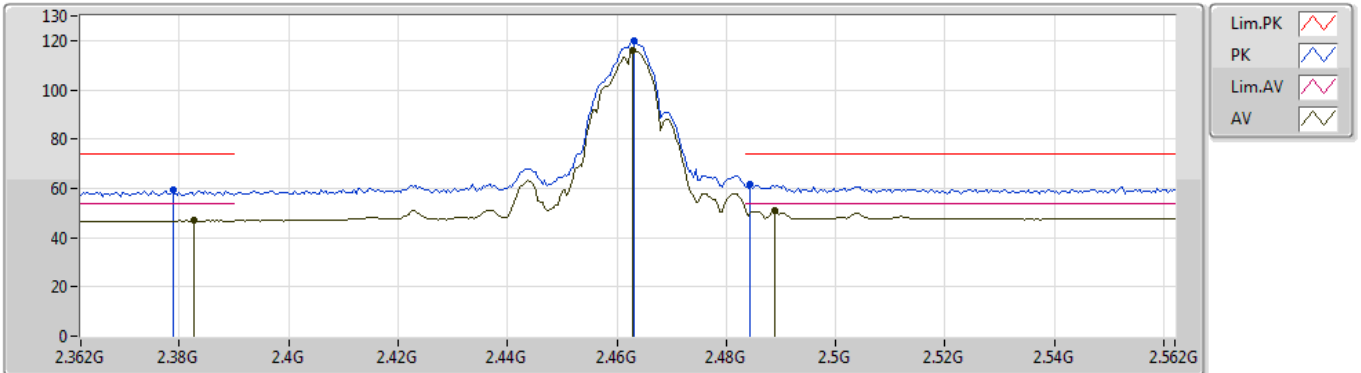
EUT_Z_4TX
Setting 22
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87412G	52.71	74.00	-21.29	6.82	3	Horizontal	171	2.68	-				
AV	4.874G	47.61	54.00	-6.39	6.82	3	Horizontal	171	2.68	-				

802.11b_Nss1,(1Mbps)_4TX

02/07/2019

2462MHz_TX



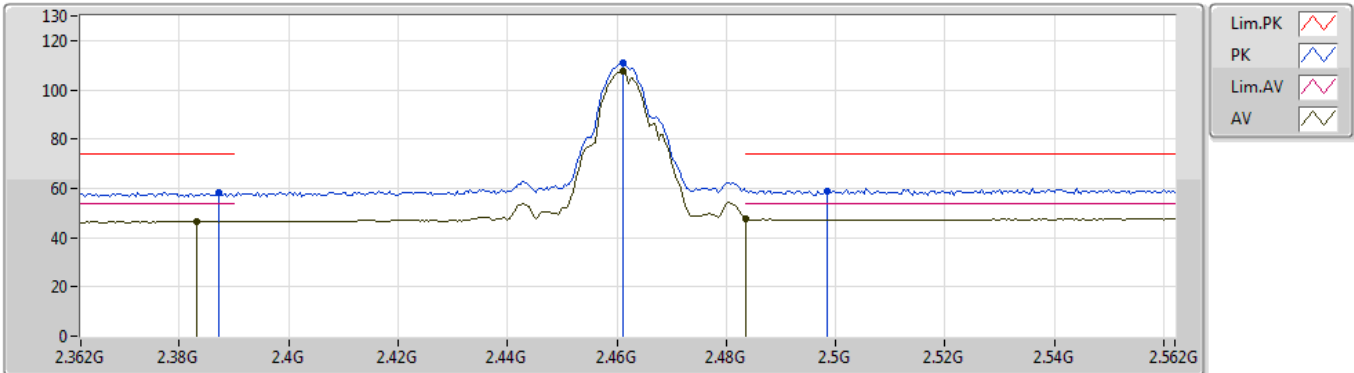
EUT_Z_4TX
Setting 20
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3788G	59.21	74.00	-14.79	31.18	3	Vertical	85	2.96	-				
AV	2.3828G	46.95	54.00	-7.05	31.19	3	Vertical	85	2.96	-				
PK	2.4632G	119.77	Inf	-Inf	31.36	3	Vertical	85	2.96	-				
AV	2.4628G	115.76	Inf	-Inf	31.36	3	Vertical	85	2.96	-				
PK	2.4844G	61.62	74.00	-12.38	31.40	3	Vertical	85	2.96	-				
AV	2.4888G	51.20	54.00	-2.80	31.41	3	Vertical	85	2.96	-				

802.11b_Nss1,(1Mbps)_4TX

02/07/2019

2462MHz_TX



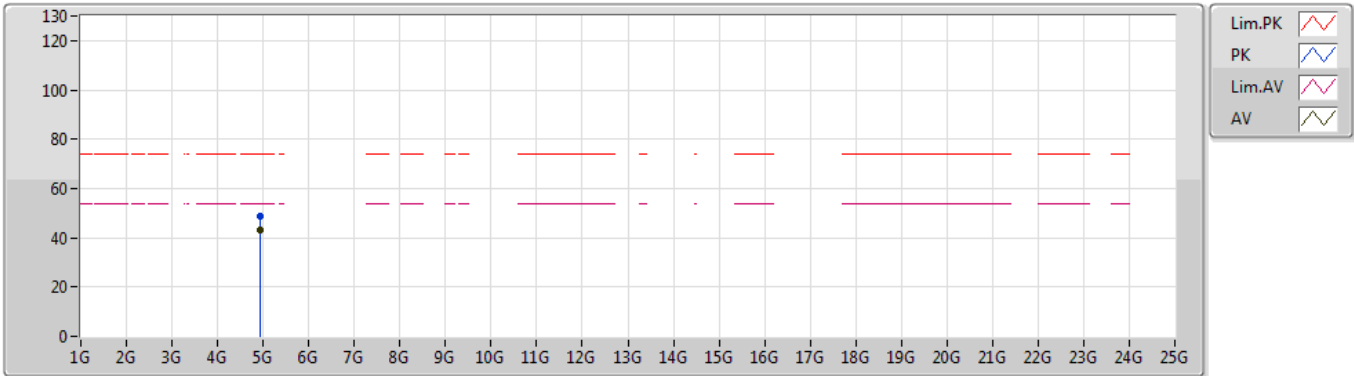
EUT_Z_4TX
Setting 20
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3872G	58.37	74.00	-15.63	31.20	3	Horizontal	11	2.52	-				
AV	2.3832G	46.57	54.00	-7.43	31.19	3	Horizontal	11	2.52	-				
PK	2.4612G	111.00	Inf	-Inf	31.35	3	Horizontal	11	2.52	-				
AV	2.4612G	107.36	Inf	-Inf	31.35	3	Horizontal	11	2.52	-				
PK	2.4984G	59.10	74.00	-14.90	31.43	3	Horizontal	11	2.52	-				
AV	2.4835G	47.48	54.00	-6.52	31.39	3	Horizontal	11	2.52	-				

802.11b_Nss1,(1Mbps)_4TX

02/07/2019

2462MHz_TX



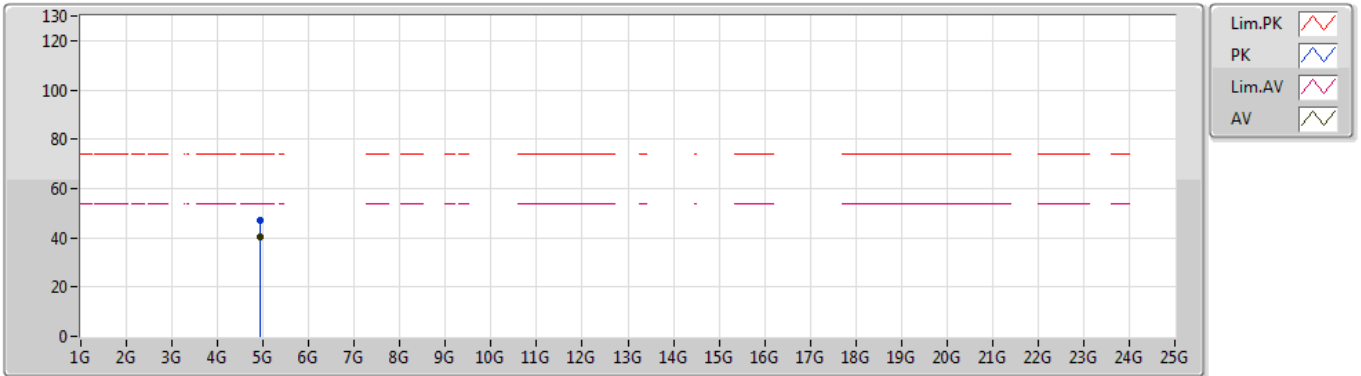
EUT_Z_4TX
Setting 20
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92392G	48.75	74.00	-25.25	7.40	3	Vertical	358	2.99	-				
AV	4.924G	43.12	54.00	-10.88	7.40	3	Vertical	358	2.99	-				

802.11b_Nss1,(1Mbps)_4TX

02/07/2019

2462MHz_TX



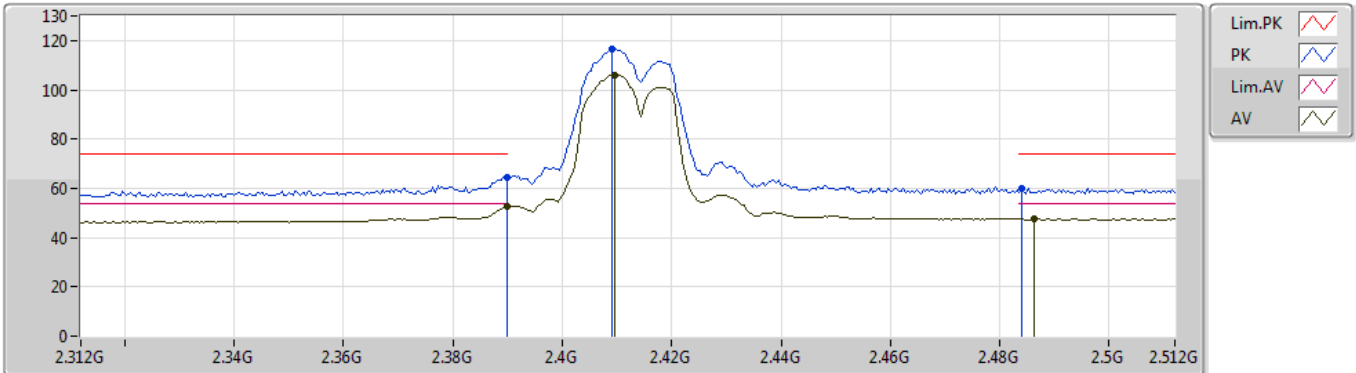
EUT_Z_4TX
Setting 20
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92408G	47.23	74.00	-26.77	7.40	3	Horizontal	129	2.90	-				
AV	4.92402G	40.62	54.00	-13.38	7.40	3	Horizontal	129	2.90	-				

802.11g_Nss1,(6Mbps)_4TX

02/07/2019

2412MHz_TX



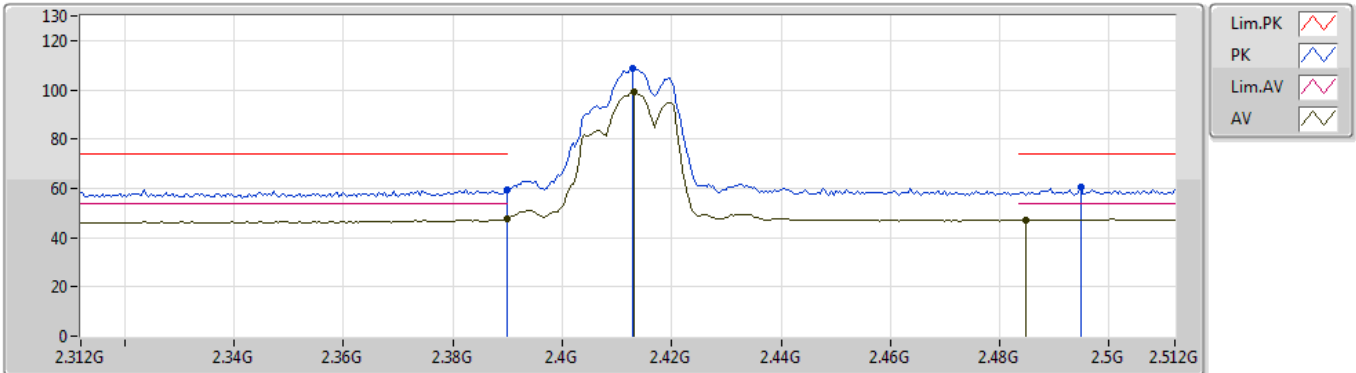
EUT_Z_4TX
Setting 17
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.39G	64.70	74.00	-9.30	31.20	3	Vertical	221	2.89	-				
AV	2.39G	52.44	54.00	-1.56	31.20	3	Vertical	221	2.89	-				
PK	2.4092G	116.79	Inf	-Inf	31.24	3	Vertical	221	2.89	-				
AV	2.4096G	106.12	Inf	-Inf	31.25	3	Vertical	221	2.89	-				
PK	2.484G	60.15	74.00	-13.85	31.39	3	Vertical	221	2.89	-				
AV	2.4864G	47.52	54.00	-6.48	31.40	3	Vertical	221	2.89	-				

802.11g_Nss1,(6Mbps)_4TX

02/07/2019

2412MHz_TX



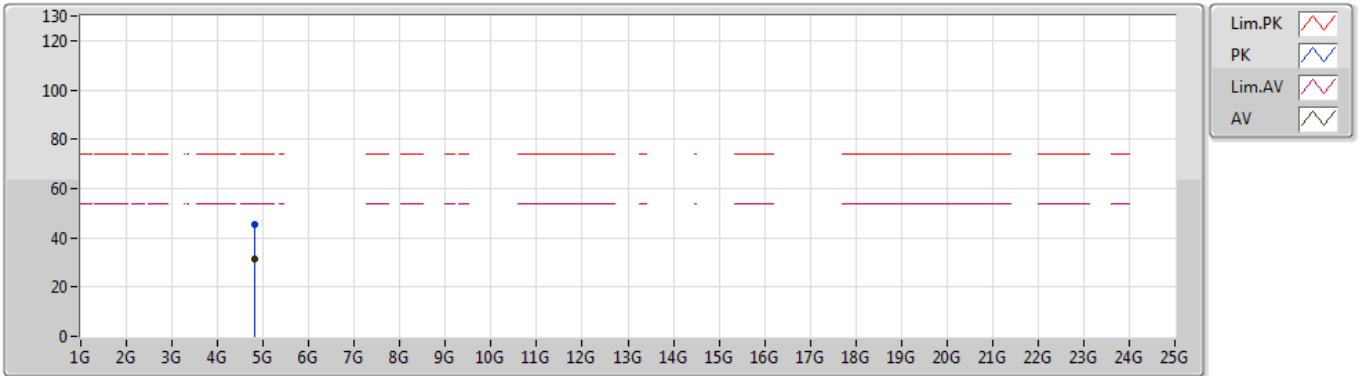
EUT_Z_4TX
Setting 17
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.39G	59.40	74.00	-14.60	31.20	3	Horizontal	195	2.75	-				
AV	2.39G	47.69	54.00	-6.31	31.20	3	Horizontal	195	2.75	-				
PK	2.4128G	108.77	Inf	-Inf	31.26	3	Horizontal	195	2.75	-				
AV	2.4132G	99.00	Inf	-Inf	31.26	3	Horizontal	195	2.75	-				
PK	2.4948G	60.25	74.00	-13.75	31.42	3	Horizontal	195	2.75	-				
AV	2.4848G	47.29	54.00	-6.71	31.40	3	Horizontal	195	2.75	-				

802.11g_Nss1,(6Mbps)_4TX

02/07/2019

2412MHz_TX



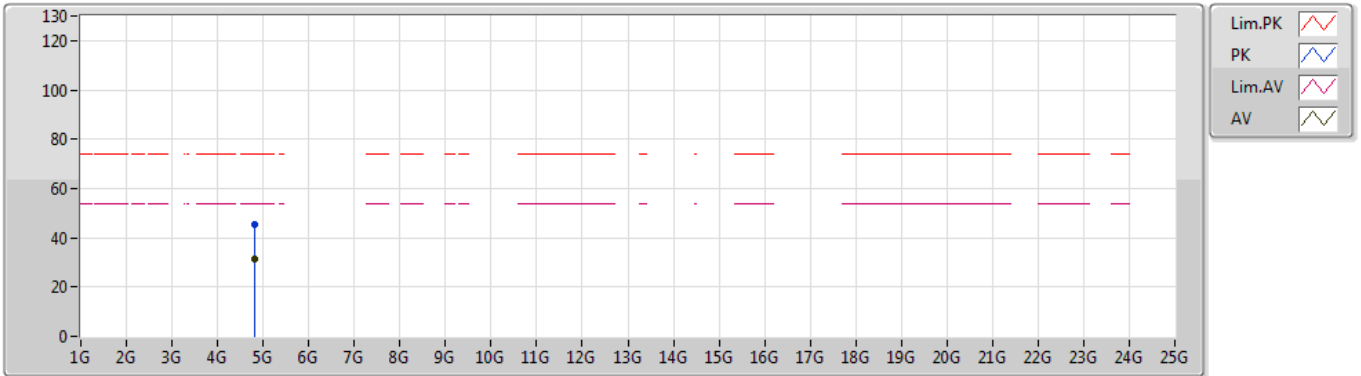
EUT_Z_4TX
Setting 17
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82396G	45.34	74.00	-28.66	7.17	3	Vertical	359	2.38	-				
AV	4.82426G	31.57	54.00	-22.43	7.17	3	Vertical	359	2.38	-				

802.11g_Nss1,(6Mbps)_4TX

02/07/2019

2412MHz_TX



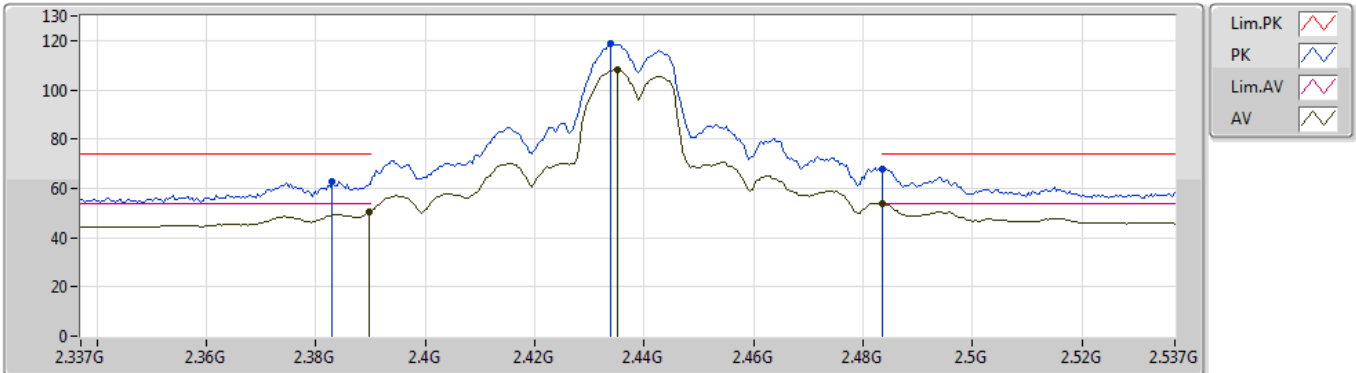
EUT_Z_4TX
Setting 17
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82336G	45.15	74.00	-28.85	7.16	3	Horizontal	153	2.99	-				
AV	4.82421G	31.26	54.00	-22.74	7.17	3	Horizontal	153	2.99	-				

802.11g_Nss1,(6Mbps)_4TX

24/06/2019

2437MHz_TX



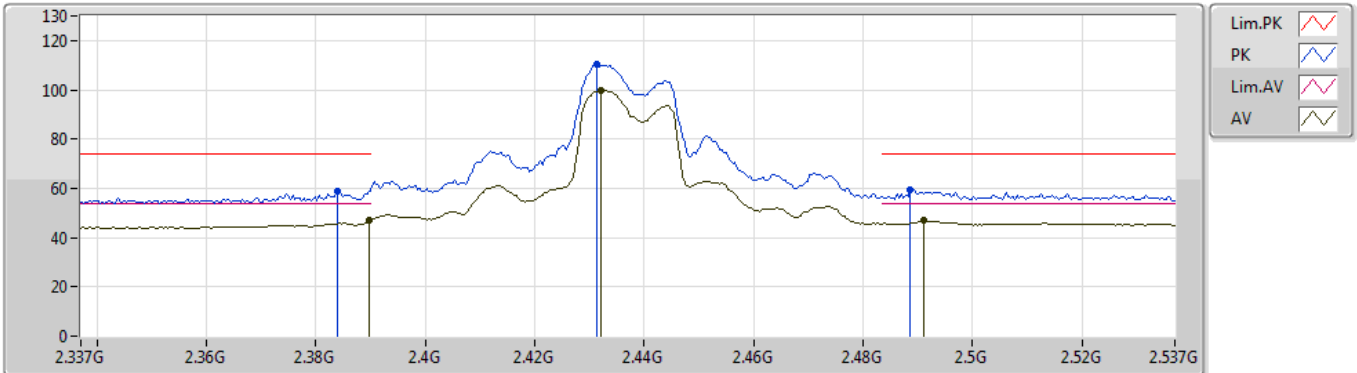
EUT_Z_4TX
Setting 19.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.383G	62.86	74.00	-11.14	32.10	3	Vertical	133	2.99	-
AV	2.3898G	50.61	54.00	-3.39	32.13	3	Vertical	133	2.99	-
PK	2.4338G	118.56	Inf	-Inf	32.26	3	Vertical	133	2.99	-
AV	2.435G	108.09	Inf	-Inf	32.27	3	Vertical	133	2.99	-
PK	2.4836G	67.73	74.00	-6.27	32.41	3	Vertical	133	2.99	-
AV	2.4836G	53.87	54.00	-0.13	32.41	3	Vertical	133	2.99	-

802.11g_Nss1,(6Mbps)_4TX

24/06/2019

2437MHz_TX



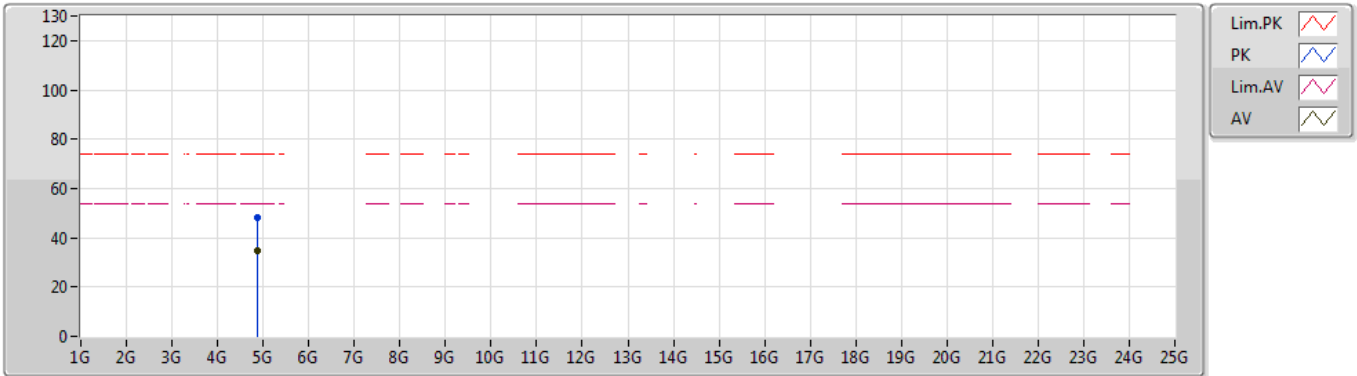
EUT_Z_4TX
Setting 19.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3838G	58.81	74.00	-15.19	32.10	3	Horizontal	340	2.54	-				
AV	2.3898G	46.80	54.00	-7.20	32.13	3	Horizontal	340	2.54	-				
PK	2.4314G	110.19	Inf	-Inf	32.26	3	Horizontal	340	2.54	-				
AV	2.4322G	99.93	Inf	-Inf	32.26	3	Horizontal	340	2.54	-				
PK	2.4886G	59.38	74.00	-14.62	32.42	3	Horizontal	340	2.54	-				
AV	2.491G	46.81	54.00	-7.19	32.43	3	Horizontal	340	2.54	-				

802.11g_Nss1,(6Mbps)_4TX

24/06/2019

2437MHz_TX



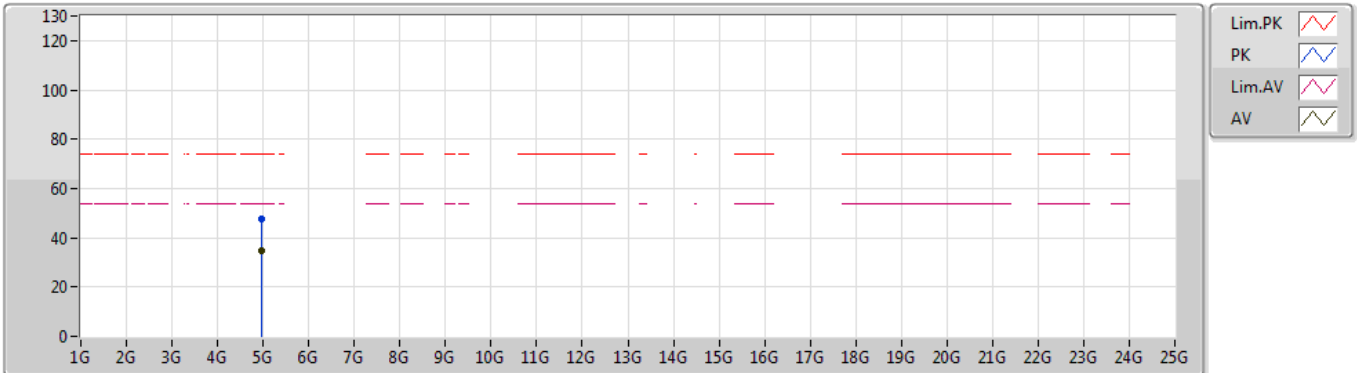
EUT_Z_4TX
Setting 19.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87512G	47.93	74.00	-26.07	6.83	3	Vertical	334	1.42	-				
AV	4.87424G	34.84	54.00	-19.16	6.82	3	Vertical	334	1.42	-				

802.11g_Nss1,(6Mbps)_4TX

24/06/2019

2437MHz_TX



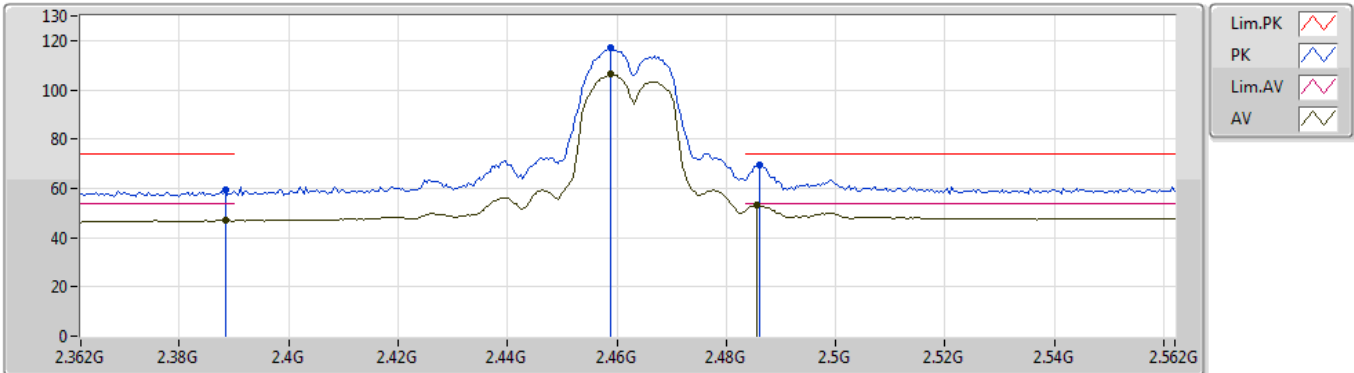
EUT_Z_4TX
Setting 19.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.9656G	47.74	74.00	-26.26	7.07	3	Horizontal	308	1.22	-				
AV	4.9564G	34.51	54.00	-19.49	7.03	3	Horizontal	308	1.22	-				

802.11g_Nss1,(6Mbps)_4TX

02/07/2019

2462MHz_TX



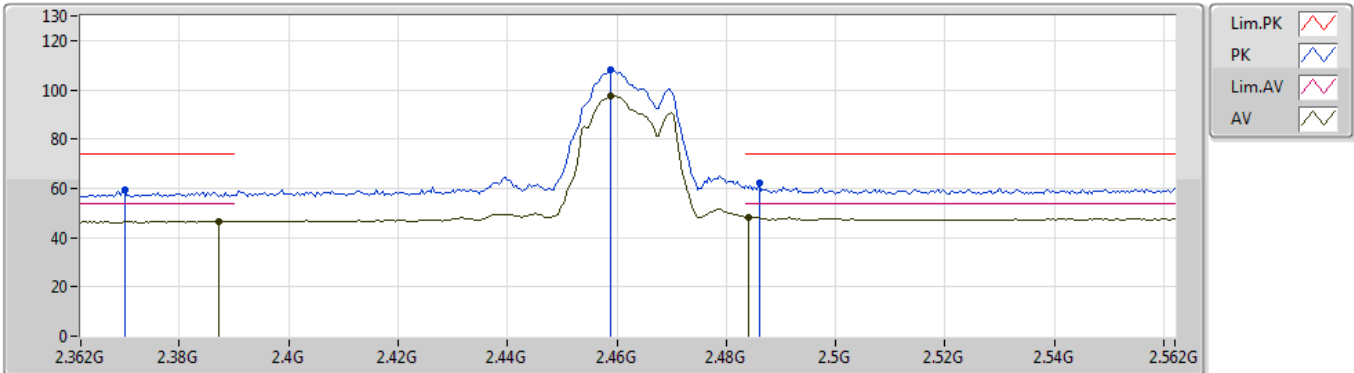
EUT Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3884G	59.22	74.00	-14.78	31.20	3	Vertical	65	3.00	-				
AV	2.3884G	46.95	54.00	-7.05	31.20	3	Vertical	65	3.00	-				
PK	2.4588G	117.13	Inf	-Inf	31.34	3	Vertical	65	3.00	-				
AV	2.4588G	106.33	Inf	-Inf	31.34	3	Vertical	65	3.00	-				
PK	2.486G	69.52	74.00	-4.48	31.40	3	Vertical	65	3.00	-				
AV	2.4856G	53.30	54.00	-0.70	31.40	3	Vertical	65	3.00	-				

802.11g_Nss1,(6Mbps)_4TX

02/07/2019

2462MHz_TX



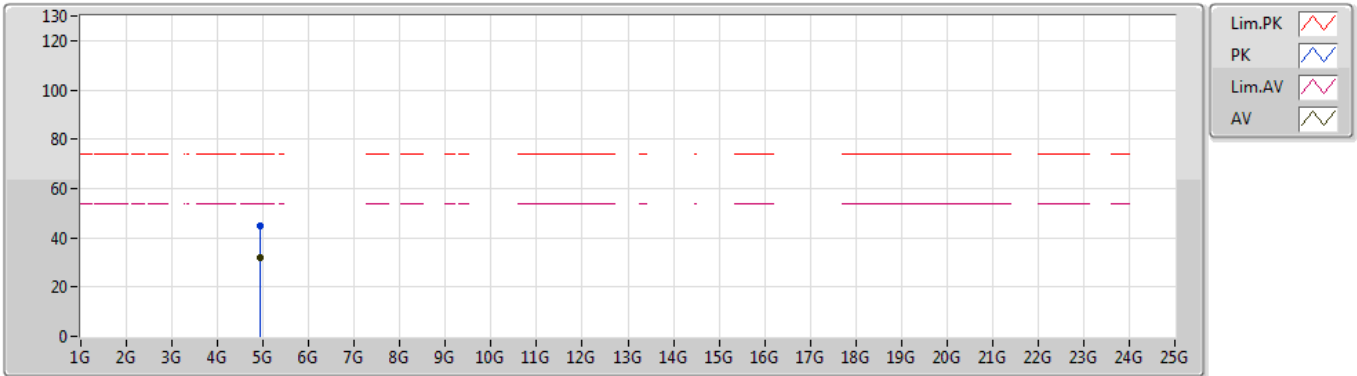
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.37G	59.32	74.00	-14.68	31.16	3	Horizontal	244	2.37	-				
AV	2.3872G	46.55	54.00	-7.45	31.20	3	Horizontal	244	2.37	-				
PK	2.4588G	108.22	Inf	-Inf	31.34	3	Horizontal	244	2.37	-				
AV	2.4588G	97.46	Inf	-Inf	31.34	3	Horizontal	244	2.37	-				
PK	2.486G	62.14	74.00	-11.86	31.40	3	Horizontal	244	2.37	-				
AV	2.484G	48.45	54.00	-5.55	31.39	3	Horizontal	244	2.37	-				

802.11g_Nss1,(6Mbps)_4TX

02/07/2019

2462MHz_TX



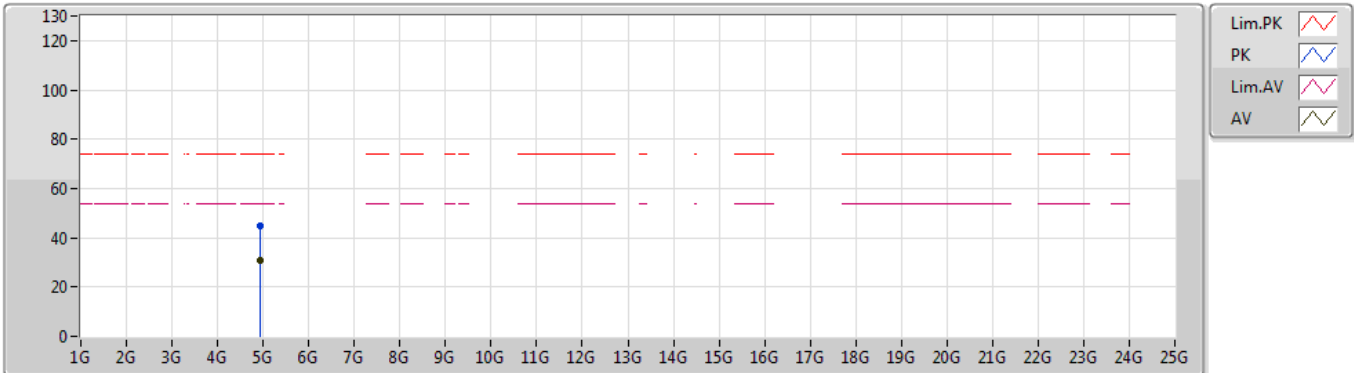
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92411G	45.08	74.00	-28.92	7.40	3	Vertical	43	1.85	-				
AV	4.92302G	31.87	54.00	-22.13	7.39	3	Vertical	43	1.85	-				

802.11g_Nss1,(6Mbps)_4TX

02/07/2019

2462MHz_TX



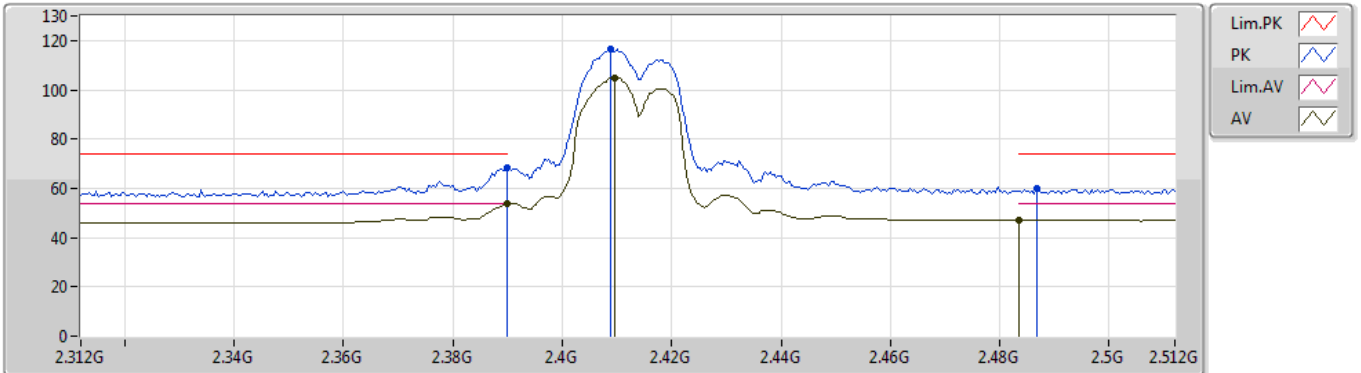
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92412G	45.04	74.00	-28.96	7.40	3	Horizontal	115	2.47	-				
AV	4.92311G	31.01	54.00	-22.99	7.39	3	Horizontal	115	2.47	-				

VHT20_Nss1,(MCS0)_4TX

02/07/2019

2412MHz_TX



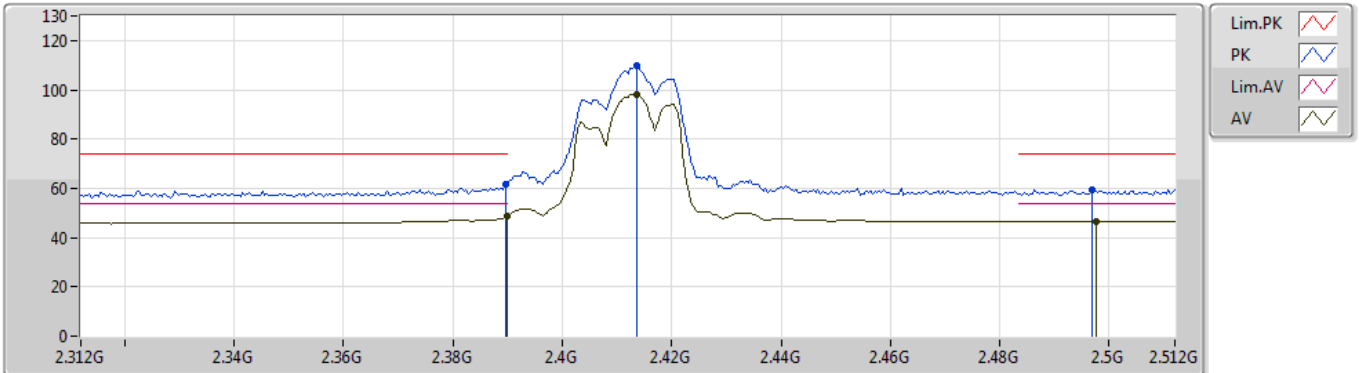
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.39G	68.49	74.00	-5.51	31.20	3	Vertical	131	2.71	-
AV	2.39G	53.88	54.00	-0.12	31.20	3	Vertical	131	2.71	-
PK	2.4088G	116.51	Inf	-Inf	31.24	3	Vertical	131	2.71	-
AV	2.4096G	104.80	Inf	-Inf	31.25	3	Vertical	131	2.71	-
PK	2.4868G	60.05	74.00	-13.95	31.40	3	Vertical	131	2.71	-
AV	2.4835G	46.88	54.00	-7.12	31.39	3	Vertical	131	2.71	-

VHT20_Nss1,(MCS0)_4TX

02/07/2019

2412MHz_TX



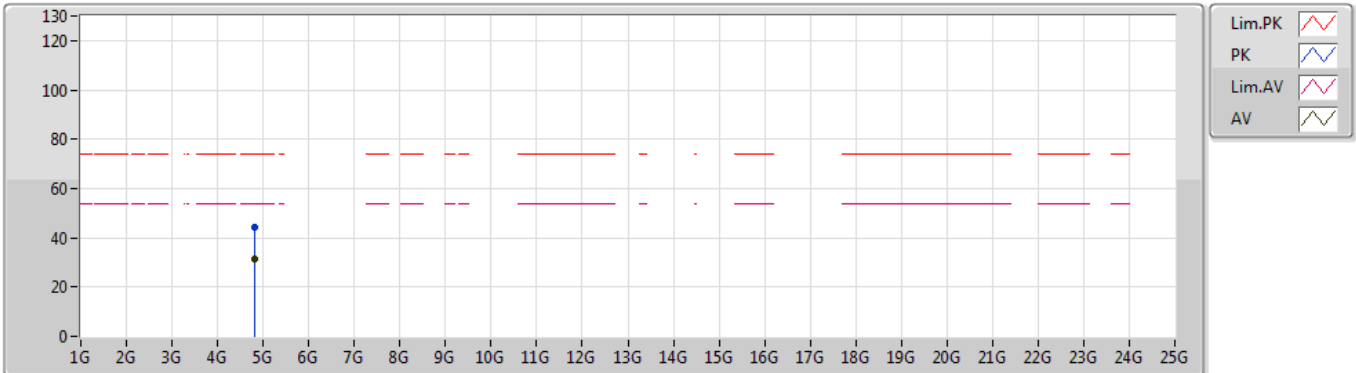
EUT Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3896G	61.58	74.00	-12.42	31.20	3	Horizontal	115	2.98	-				
AV	2.39G	49.01	54.00	-4.99	31.20	3	Horizontal	115	2.98	-				
PK	2.4136G	109.78	Inf	-Inf	31.26	3	Horizontal	115	2.98	-				
AV	2.4136G	98.20	Inf	-Inf	31.26	3	Horizontal	115	2.98	-				
PK	2.4968G	59.53	74.00	-14.47	31.42	3	Horizontal	115	2.98	-				
AV	2.4976G	46.71	54.00	-7.29	31.43	3	Horizontal	115	2.98	-				

VHT20_Nss1,(MCS0)_4TX

02/07/2019

2412MHz_TX



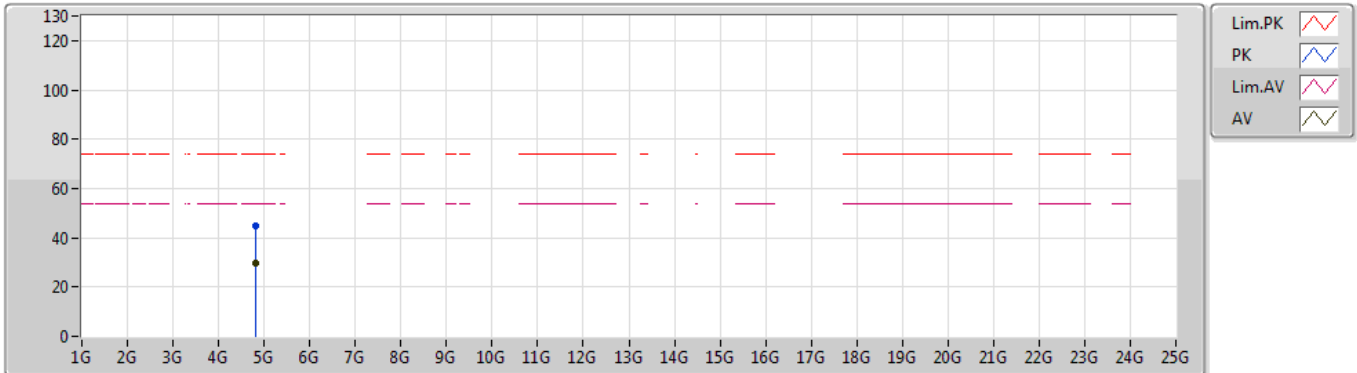
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82442G	44.36	74.00	-29.64	7.17	3	Vertical	165	1.08	-				
AV	4.82464G	31.17	54.00	-22.83	7.17	3	Vertical	165	1.08	-				

VHT20_Nss1,(MCS0)_4TX

02/07/2019

2412MHz_TX



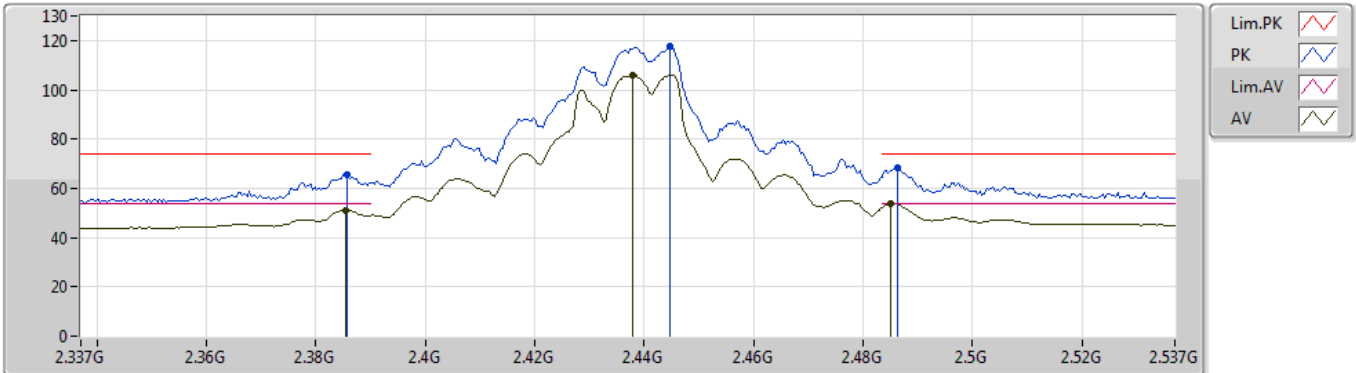
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.8244G	44.60	74.00	-29.40	7.17	3	Horizontal	231	1.53	-				
AV	4.824G	29.96	54.00	-24.04	7.17	3	Horizontal	231	1.53	-				

VHT20_Nss1,(MCS0)_4TX

24/06/2019

2437MHz_TX



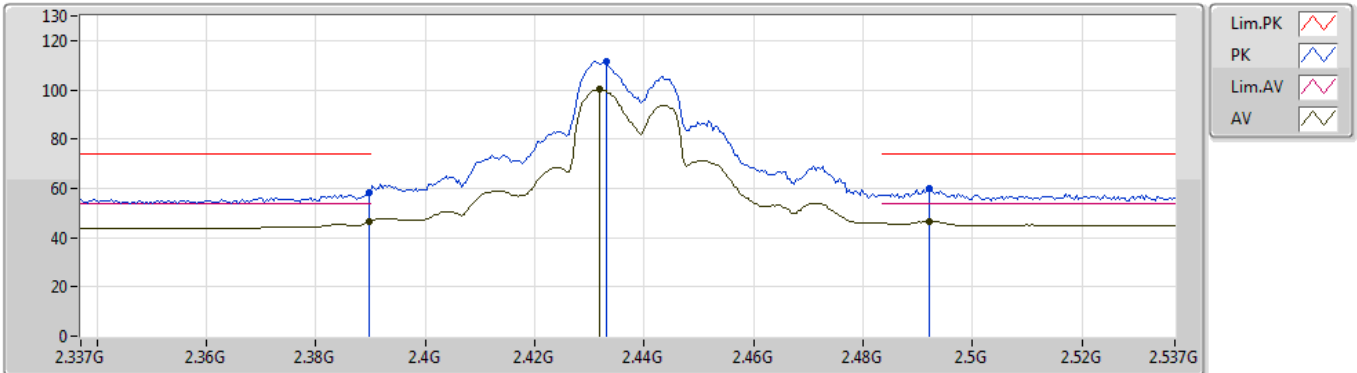
EUT_Z_4TX
Setting 20.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3858G	65.54	74.00	-8.46	32.11	3	Vertical	339	2.64	-
AV	2.3854G	51.01	54.00	-2.99	32.11	3	Vertical	339	2.64	-
PK	2.4446G	117.49	Inf	-Inf	32.30	3	Vertical	339	2.64	-
AV	2.4378G	106.06	Inf	-Inf	32.27	3	Vertical	339	2.64	-
PK	2.4862G	68.35	74.00	-5.65	32.42	3	Vertical	339	2.64	-
AV	2.485G	53.86	54.00	-0.14	32.42	3	Vertical	339	2.64	-

VHT20_Nss1,(MCS0)_4TX

24/06/2019

2437MHz_TX



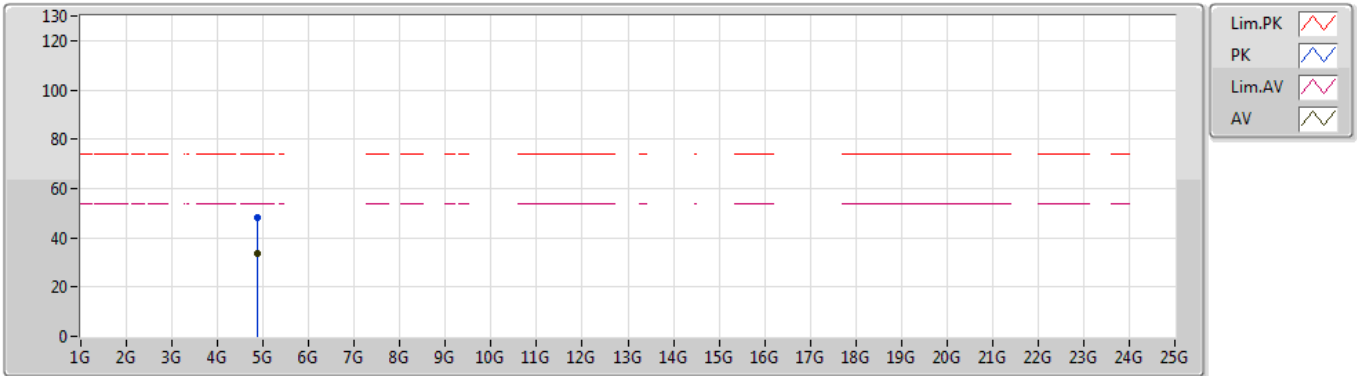
EUT_Z_4TX
Setting 20.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3898G	58.13	74.00	-15.87	32.13	3	Horizontal	337	2.50	-				
AV	2.3898G	46.31	54.00	-7.69	32.13	3	Horizontal	337	2.50	-				
PK	2.433G	111.28	Inf	-Inf	32.26	3	Horizontal	337	2.50	-				
AV	2.4318G	100.39	Inf	-Inf	32.26	3	Horizontal	337	2.50	-				
PK	2.4922G	59.77	74.00	-14.23	32.43	3	Horizontal	337	2.50	-				
AV	2.4922G	46.43	54.00	-7.57	32.43	3	Horizontal	337	2.50	-				

VHT20_Nss1,(MCS0)_4TX

24/06/2019

2437MHz_TX



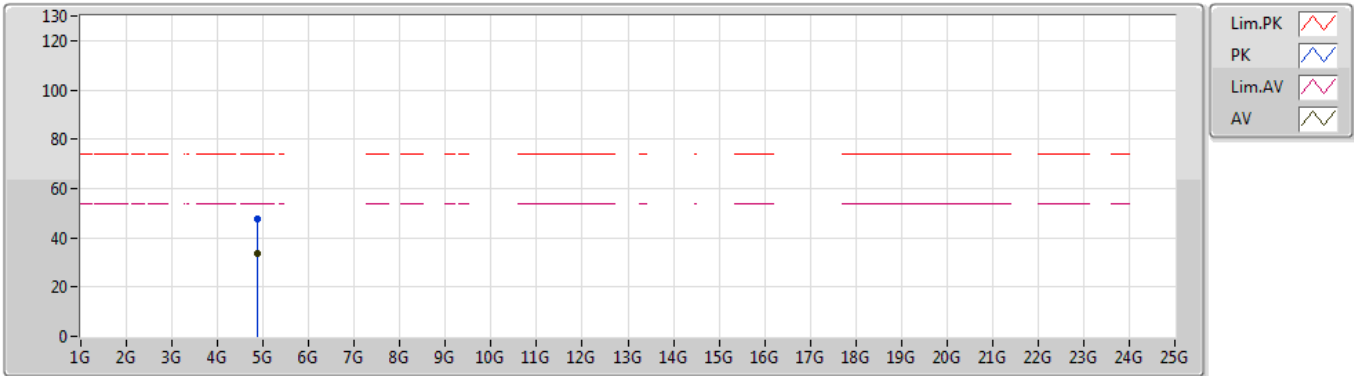
EUT_Z_4TX
Setting 20.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87324G	48.17	74.00	-25.83	6.82	3	Vertical	315	1.59	-				
AV	4.8712G	33.41	54.00	-20.59	6.82	3	Vertical	315	1.59	-				

VHT20_Nss1,(MCS0)_4TX

24/06/2019

2437MHz_TX



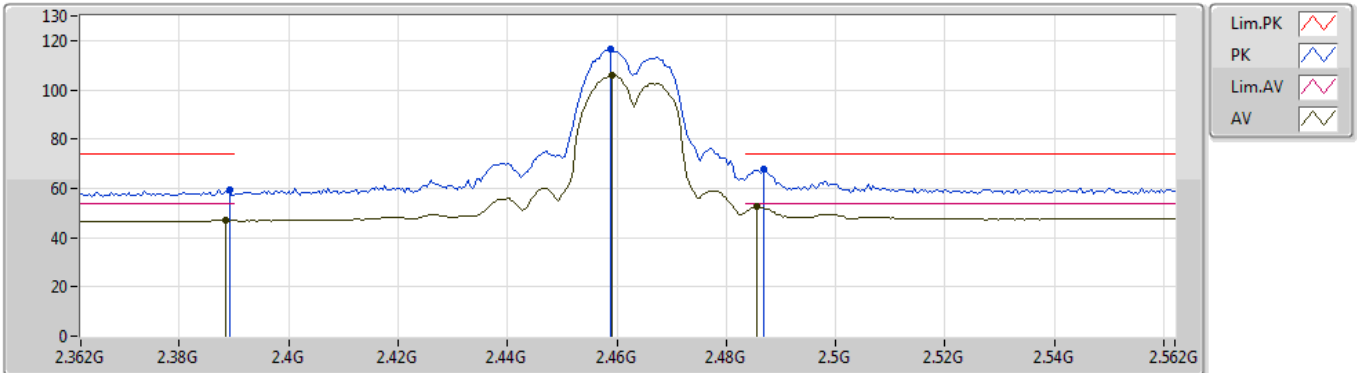
EUT_Z_4TX
Setting 20.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87276G	47.46	74.00	-26.54	6.82	3	Horizontal	355	2.06	-				
AV	4.87944G	33.58	54.00	-20.42	6.84	3	Horizontal	355	2.06	-				

VHT20_Nss1,(MCS0)_4TX

02/07/2019

2462MHz_TX



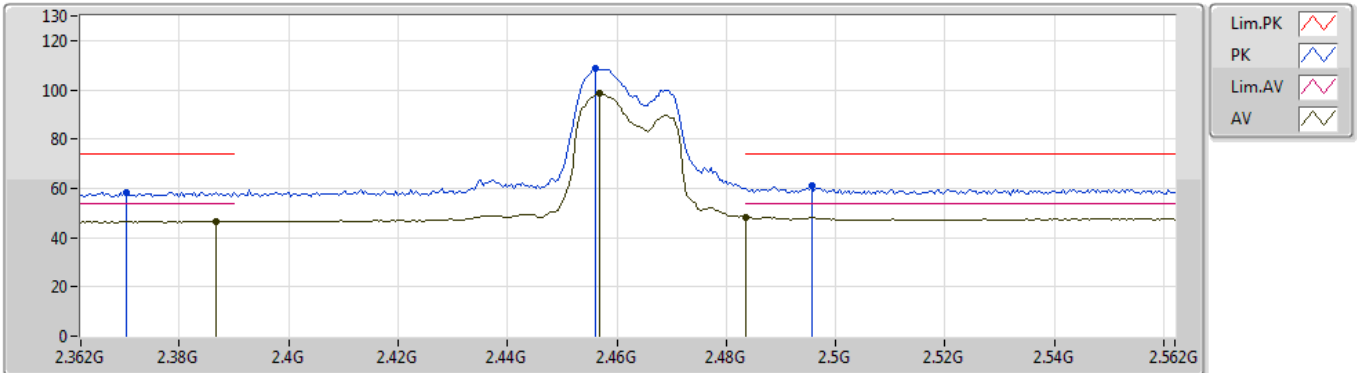
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3892G	59.50	74.00	-14.50	31.20	3	Vertical	125	3.00	-				
AV	2.3884G	47.00	54.00	-7.00	31.20	3	Vertical	125	3.00	-				
PK	2.4588G	116.44	Inf	-Inf	31.34	3	Vertical	125	3.00	-				
AV	2.4592G	106.07	Inf	-Inf	31.34	3	Vertical	125	3.00	-				
PK	2.4868G	68.03	74.00	-5.97	31.40	3	Vertical	125	3.00	-				
AV	2.4856G	52.43	54.00	-1.57	31.40	3	Vertical	125	3.00	-				

VHT20_Nss1,(MCS0)_4TX

02/07/2019

2462MHz_TX



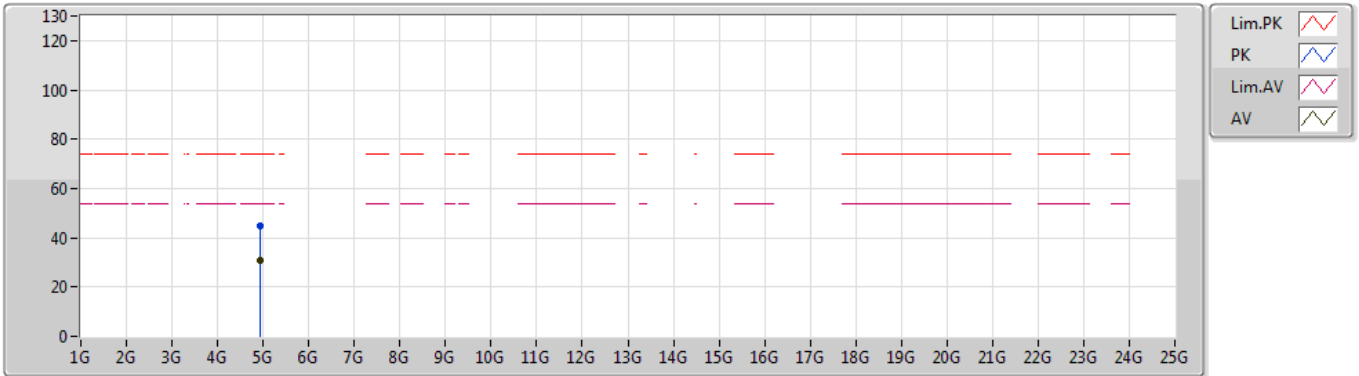
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3704G	58.55	74.00	-15.45	31.16	3	Horizontal	348	2.96	-				
AV	2.3868G	46.55	54.00	-7.45	31.20	3	Horizontal	348	2.96	-				
PK	2.456G	108.57	Inf	-Inf	31.34	3	Horizontal	348	2.96	-				
AV	2.4568G	98.35	Inf	-Inf	31.34	3	Horizontal	348	2.96	-				
PK	2.4956G	60.93	74.00	-13.07	31.42	3	Horizontal	348	2.96	-				
AV	2.4835G	48.27	54.00	-5.73	31.39	3	Horizontal	348	2.96	-				

VHT20_Nss1,(MCS0)_4TX

02/07/2019

2462MHz_TX



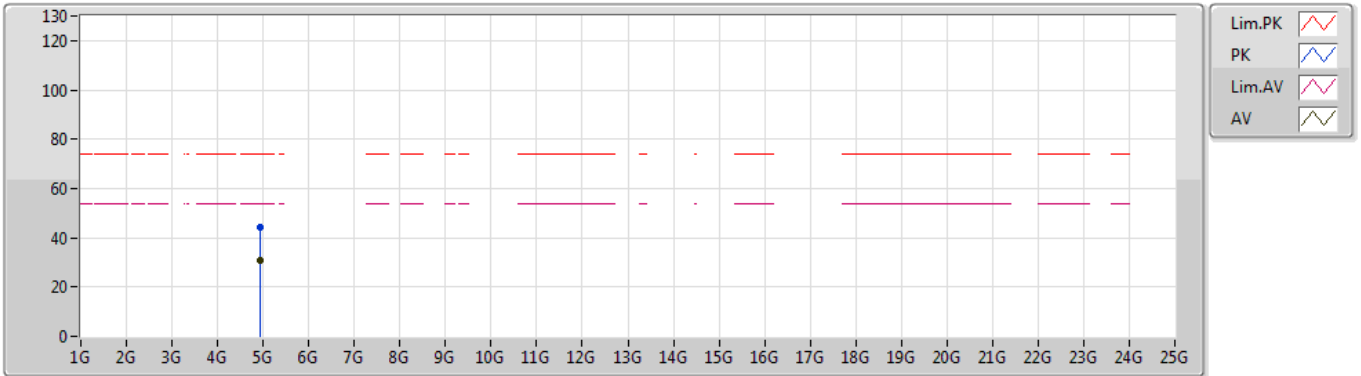
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92317G	44.67	74.00	-29.33	7.39	3	Vertical	179	2.03	-				
AV	4.92314G	30.95	54.00	-23.05	7.39	3	Vertical	179	2.03	-				

VHT20_Nss1,(MCS0)_4TX

02/07/2019

2462MHz_TX



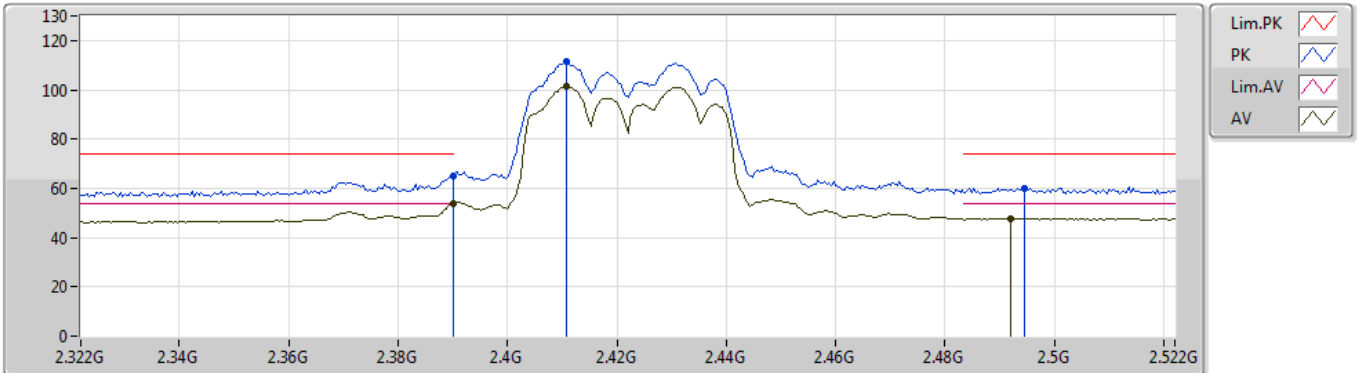
EUT_Z_4TX
Setting 17.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92478G	44.44	74.00	-29.56	7.40	3	Horizontal	319	1.39	-				
AV	4.92318G	31.06	54.00	-22.94	7.39	3	Horizontal	319	1.39	-				

VHT40_Nss1,(MCS0)_4TX

02/07/2019

2422MHz_TX



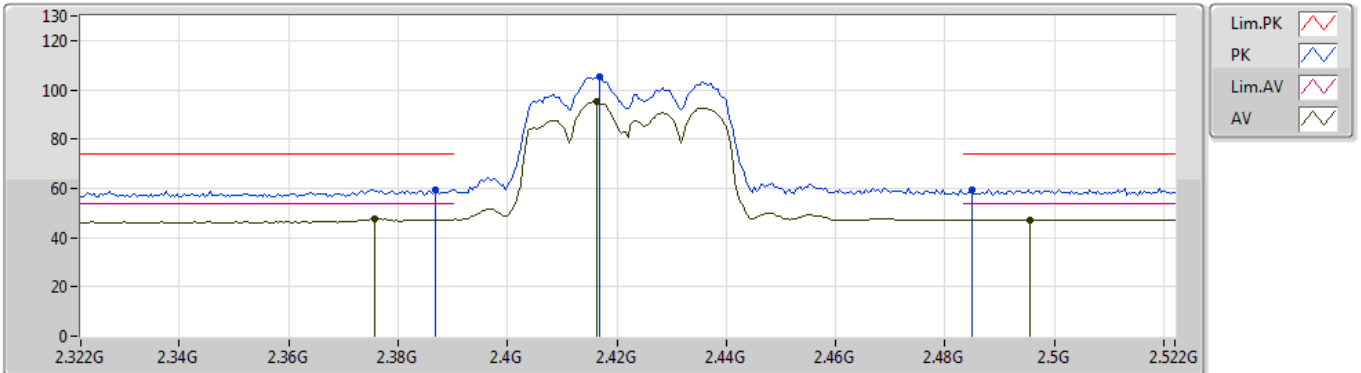
EUT_Z_4TX
Setting 15.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.39G	64.97	74.00	-9.03	31.20	3	Vertical	56	2.79	-				
AV	2.39G	53.62	54.00	-0.38	31.20	3	Vertical	56	2.79	-				
PK	2.4108G	111.77	Inf	-Inf	31.25	3	Vertical	56	2.79	-				
AV	2.4108G	101.27	Inf	-Inf	31.25	3	Vertical	56	2.79	-				
PK	2.4944G	59.98	74.00	-14.02	31.42	3	Vertical	56	2.79	-				
AV	2.492G	47.87	54.00	-6.13	31.42	3	Vertical	56	2.79	-				

VHT40_Nss1,(MCS0)_4TX

02/07/2019

2422MHz_TX



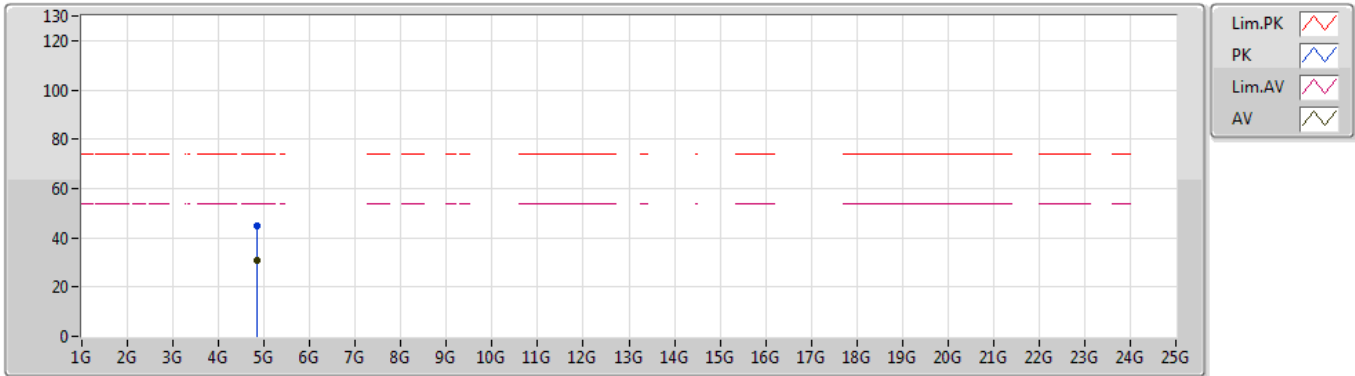
EUT Z_4TX
Setting 15.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3868G	59.30	74.00	-14.70	31.20	3	Horizontal	49	2.97	-				
AV	2.3756G	47.51	54.00	-6.49	31.17	3	Horizontal	49	2.97	-				
PK	2.4168G	105.48	Inf	-Inf	31.27	3	Horizontal	49	2.97	-				
AV	2.4164G	95.46	Inf	-Inf	31.27	3	Horizontal	49	2.97	-				
PK	2.4848G	59.54	74.00	-14.46	31.40	3	Horizontal	49	2.97	-				
AV	2.4956G	47.24	54.00	-6.76	31.42	3	Horizontal	49	2.97	-				

VHT40_Nss1,(MCS0)_4TX

02/07/2019

2422MHz_TX



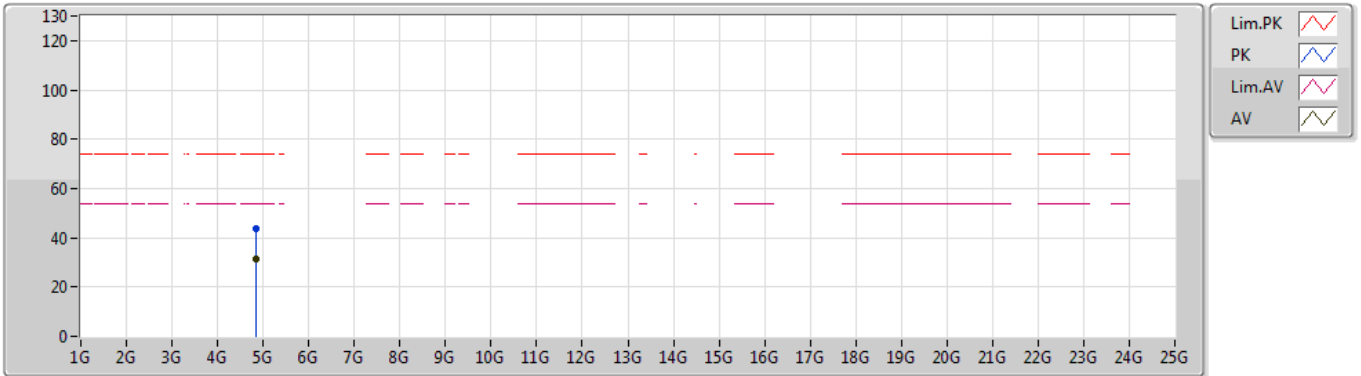
EUT_Z_4TX
Setting 15.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.8433G	44.92	74.00	-29.08	7.21	3	Vertical	166	1.84	-				
AV	4.8431G	30.68	54.00	-23.32	7.21	3	Vertical	166	1.84	-				

VHT40_Nss1,(MCS0)_4TX

02/07/2019

2422MHz_TX



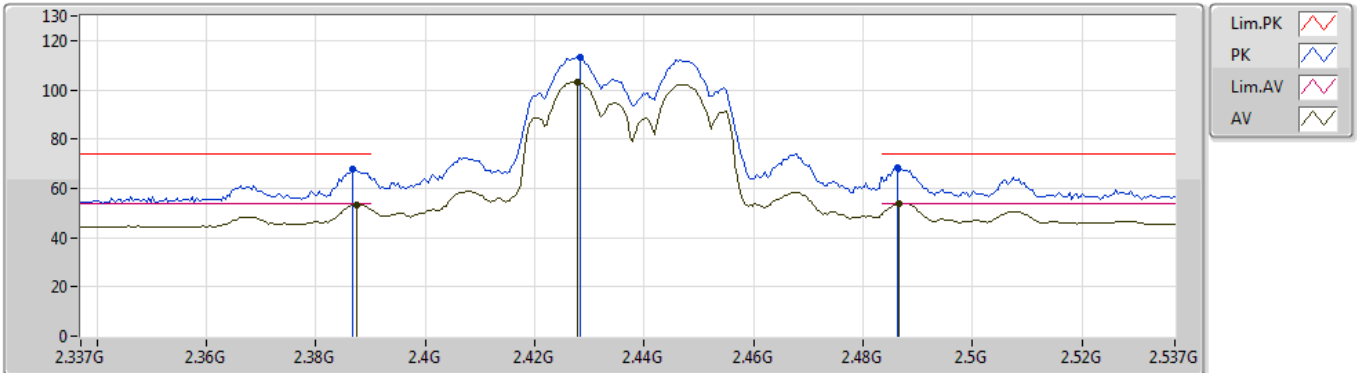
EUT_Z_4TX
Setting 15.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.84359G	43.87	74.00	-30.13	7.21	3	Horizontal	228	2.19	-				
AV	4.84336G	31.57	54.00	-22.43	7.21	3	Horizontal	228	2.19	-				

VHT40_Nss1,(MCS0)_4TX

24/06/2019

2437MHz_TX



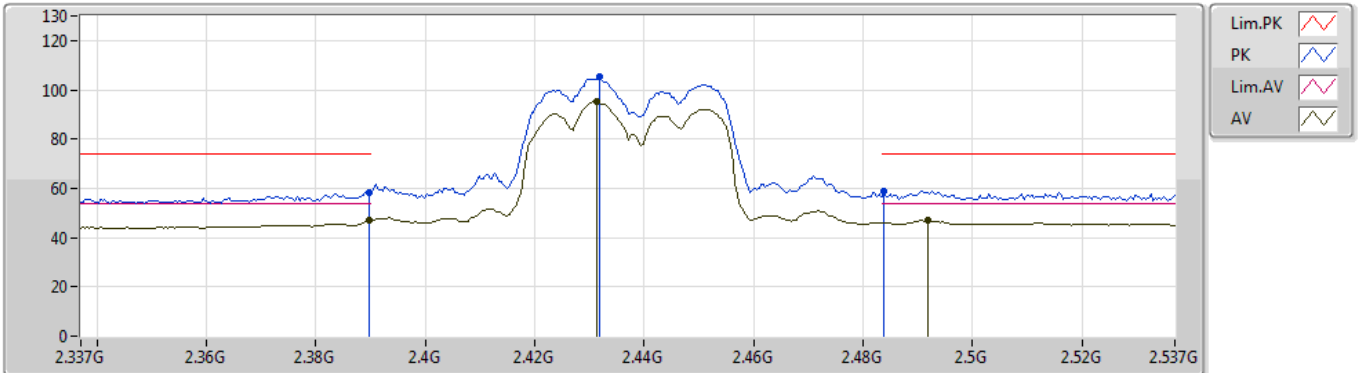
EUT_Z_4TX
Setting 17.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3866G	67.98	74.00	-6.02	32.11	3	Vertical	73	2.73	-
AV	2.3874G	53.15	54.00	-0.85	32.11	3	Vertical	73	2.73	-
PK	2.4282G	113.01	Inf	-Inf	32.24	3	Vertical	73	2.73	-
AV	2.4278G	103.22	Inf	-Inf	32.24	3	Vertical	73	2.73	-
PK	2.4862G	68.34	74.00	-5.66	32.42	3	Vertical	73	2.73	-
AV	2.4866G	53.91	54.00	-0.09	32.42	3	Vertical	73	2.73	-

VHT40_Nss1,(MCS0)_4TX

24/06/2019

2437MHz_TX



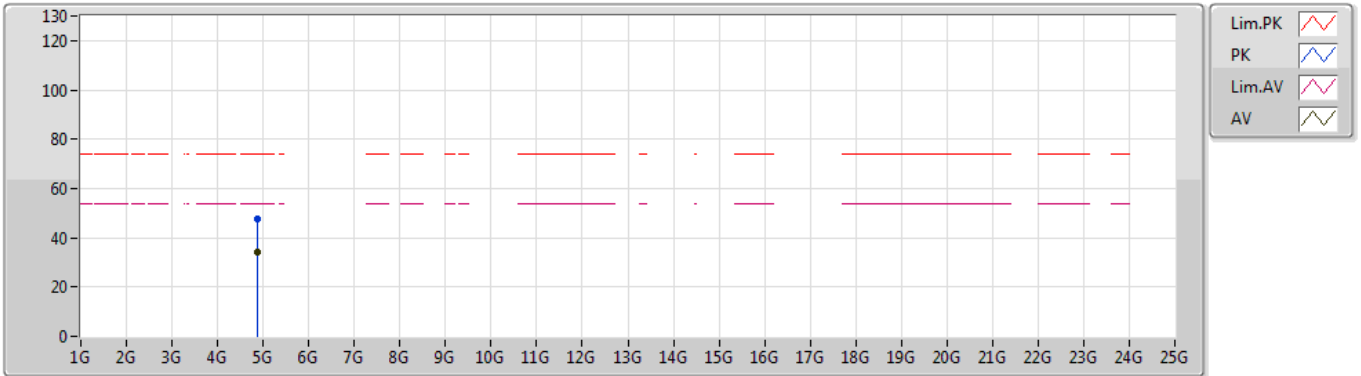
EUT_Z_4TX
Setting 17.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3898G	58.53	74.00	-15.47	32.13	3	Horizontal	333	2.50	-				
AV	2.3898G	46.82	54.00	-7.18	32.13	3	Horizontal	333	2.50	-				
PK	2.4318G	105.43	Inf	-Inf	32.26	3	Horizontal	333	2.50	-				
AV	2.4314G	95.22	Inf	-Inf	32.26	3	Horizontal	333	2.50	-				
PK	2.4838G	58.74	74.00	-15.26	32.41	3	Horizontal	333	2.50	-				
AV	2.4918G	46.94	54.00	-7.06	32.43	3	Horizontal	333	2.50	-				

VHT40_Nss1,(MCS0)_4TX

24/06/2019

2437MHz_TX



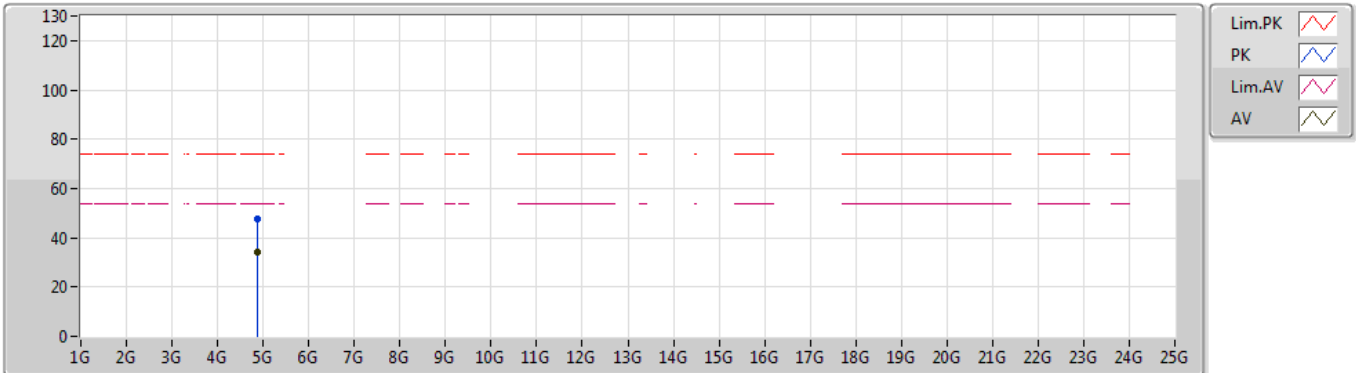
EUT_Z_4TX
Setting 17.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87676G	47.60	74.00	-26.40	6.84	3	Vertical	122	1.78	-				
AV	4.88288G	34.40	54.00	-19.60	6.84	3	Vertical	122	1.78	-				

VHT40_Nss1,(MCS0)_4TX

24/06/2019

2437MHz_TX



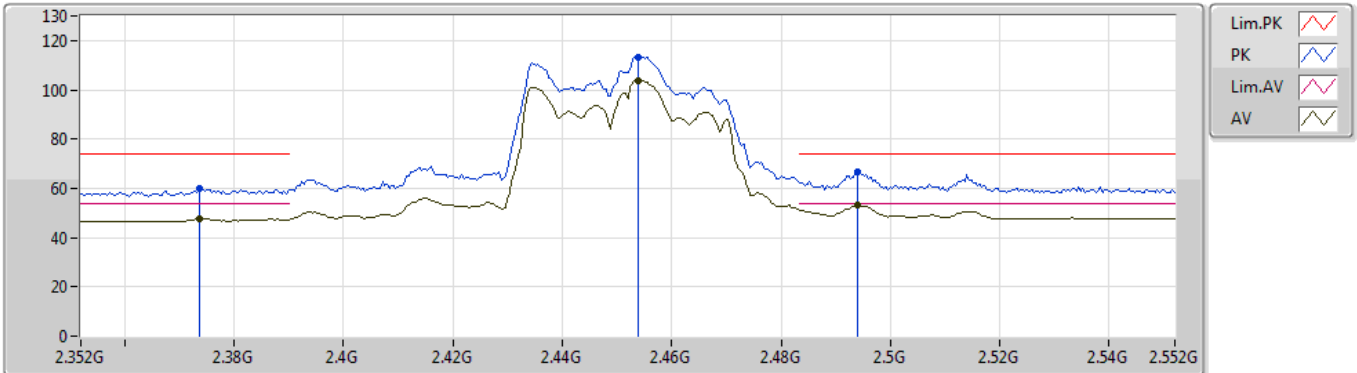
EUT_Z_4TX
Setting 17.5
06-C-4
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.88148G	47.36	74.00	-26.64	6.84	3	Horizontal	89	1.78	-				
AV	4.87392G	34.22	54.00	-19.78	6.82	3	Horizontal	89	1.78	-				

VHT40_Nss1,(MCS0)_4TX

02/07/2019

2452MHz_TX



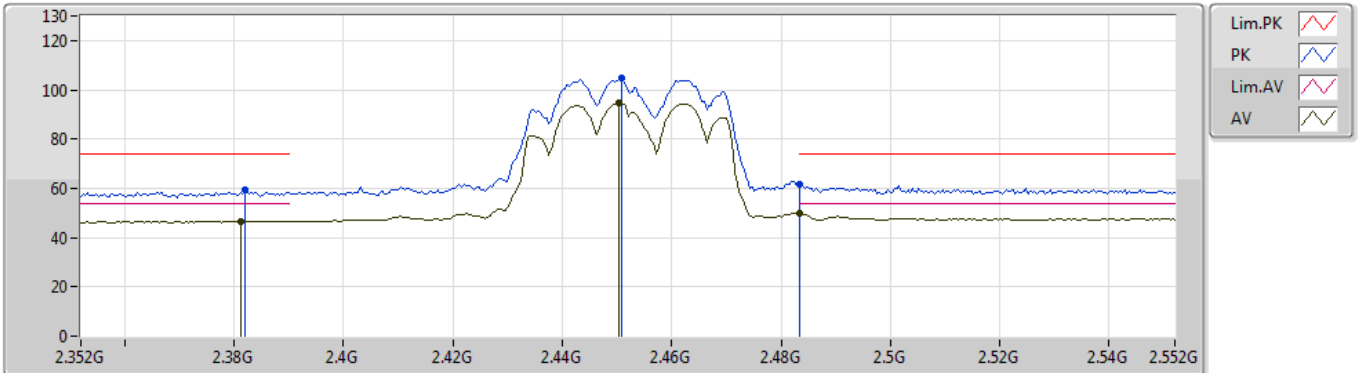
EUT_Z_4TX
Setting 16.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3736G	59.75	74.00	-14.25	31.16	3	Vertical	136	2.99	-
AV	2.3736G	47.69	54.00	-6.31	31.16	3	Vertical	136	2.99	-
PK	2.454G	113.40	Inf	-Inf	31.34	3	Vertical	136	2.99	-
AV	2.454G	103.92	Inf	-Inf	31.34	3	Vertical	136	2.99	-
PK	2.494G	66.94	74.00	-7.06	31.42	3	Vertical	136	2.99	-
AV	2.494G	53.05	54.00	-0.95	31.42	3	Vertical	136	2.99	-

VHT40_Nss1,(MCS0)_4TX

02/07/2019

2452MHz_TX



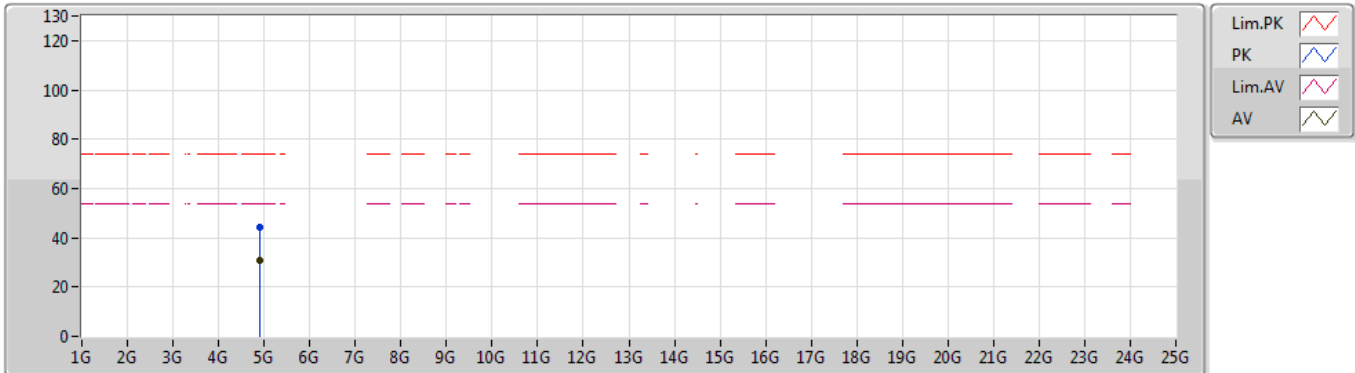
EUT_Z_4TX
Setting 16.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.382G	59.49	74.00	-14.51	31.19	3	Horizontal	51	2.89	-				
AV	2.3812G	46.72	54.00	-7.28	31.19	3	Horizontal	51	2.89	-				
PK	2.4508G	104.60	Inf	-Inf	31.33	3	Horizontal	51	2.89	-				
AV	2.4504G	94.74	Inf	-Inf	31.33	3	Horizontal	51	2.89	-				
PK	2.4835G	61.79	74.00	-12.21	31.39	3	Horizontal	51	2.89	-				
AV	2.4835G	49.63	54.00	-4.37	31.39	3	Horizontal	51	2.89	-				

VHT40_Nss1,(MCS0)_4TX

02/07/2019

2452MHz_TX



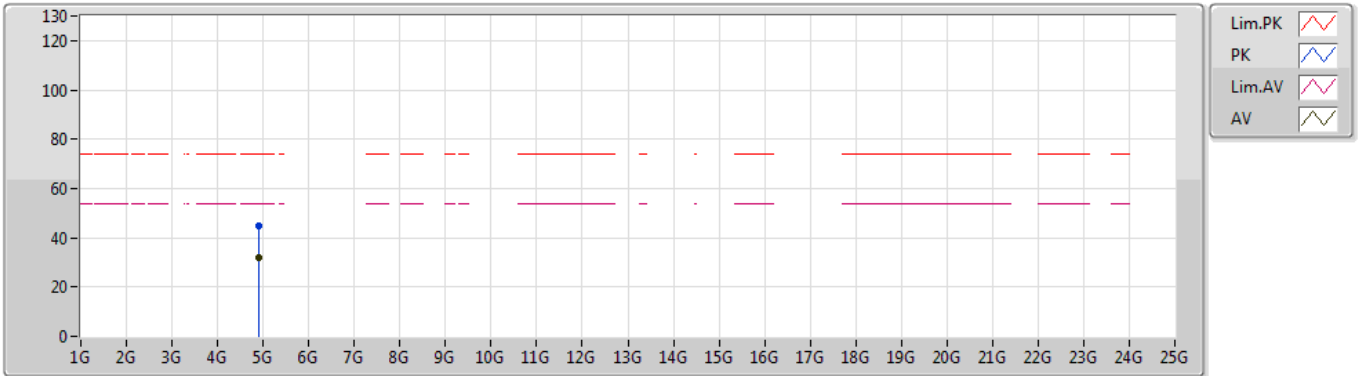
EUT_Z_4TX
Setting 16.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.90438G	44.30	74.00	-29.70	7.36	3	Vertical	254	1.09	-				
AV	4.90323G	30.88	54.00	-23.12	7.36	3	Vertical	254	1.09	-				

VHT40_Nss1,(MCS0)_4TX

02/07/2019

2452MHz_TX



EUT_Z_4TX
Setting 16.5
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.9042G	44.77	74.00	-29.23	7.36	3	Horizontal	46	1.24	-				
AV	4.90333G	32.01	54.00	-21.99	7.36	3	Horizontal	46	1.24	-				