



RADIO TEST REPORT

FCC ID : MSQ-RTAXE4P00
Equipment : AXE11000 Tri Band WiFi Router
Brand Name : ASUS
Model Name : ET12, ZenWiFi ET12, ASUS ZenWiFi ET12
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan
Manufacturer (1) : Compal Networking (KunShan) Co., LTD.
No. 520, Nanbang Rd., Economic & Technical
Development Zone Kunshan, Jiangsu Province
China
Manufacturer (2) : ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD.
Ba Thien Industrial Park, Ba Hien commune, Binh
Xuyen district, Vinh Phuc Province
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 19, 2021, and testing was started from Jul. 21, 2021 and completed on Oct. 19, 2021. We, Sporton International Inc. Hsinchu 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 test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Cliff Chang

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, 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	9
1.3 Testing Location Information	9
1.4 Measurement Uncertainty	10
2 Test Configuration of EUT.....	11
2.1 Test Channel Mode	11
2.2 The Worst Case Measurement Configuration.....	12
2.3 EUT Operation during Test	14
2.4 Accessories	15
2.5 Support Equipment.....	15
2.6 Test Setup Diagram	17
3 Transmitter Test Result	21
3.1 AC Power-line Conducted Emissions	21
3.2 DTS Bandwidth	23
3.3 Maximum Conducted Output Power	24
3.4 Power Spectral Density	27
3.5 Emissions in Non-restricted Frequency Bands	29
3.6 Emissions in Restricted Frequency Bands.....	30
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 Results of Radiated Emission Co-location	
Appendix H. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Wendy Pan



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, ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	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	802.11n HT20-BF	20	4TX
2.4-2.4835GHz	VHT20	20	4TX
2.4-2.4835GHz	VHT20-BF	20	4TX
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11n HT40-BF	40	4TX
2.4-2.4835GHz	VHT40	40	4TX
2.4-2.4835GHz	VHT40-BF	40	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX
2.4-2.4835GHz	802.11ax HEW40-BF	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.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.


1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth					
1	-	-	3	-	WHA YU	C660-510565-A	PIFA	I-PEX	Note1
2	-	-	2	-	WHA YU	C660-510565-A	PIFA	I-PEX	
3	-	-	1	-	WHA YU	C660-510565-A	PIFA	I-PEX	
4	-	-	4	-	WHA YU	C660-510565-A	PIFA	I-PEX	
5	3	2	-	-	WHA YU	C660-510565-A	PIFA	I-PEX	
6	4	1	-	-	WHA YU	C660-510565-A	PIFA	I-PEX	
7	1	4	-	-	WHA YU	C660-510565-A	PIFA	I-PEX	
8	2	3	-	-	WHA YU	C660-510565-A	PIFA	I-PEX	
9	-	-	-	1	YAGEO	ANT3216A063R2400A	Chip	N/A	

Note1:

Ant.	Port				Antenna Gain (dBi)							
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz				Bluetooth
						UNII 1	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	-	-	3	-	-	-	-	0.97	0.81	1.07	1.14	-
2	-	-	2	-	-	-	-					-
3	-	-	1	-	-	-	-					-
4	-	-	4	-	-	-	-					-
5	3	2	-	-	3.03	3.63	4.44	-	-	-	-	-
6	4	1	-	-	2.13	4.04	3.14	-	-	-	-	-
7	1	4	-	-	2.34	2.76	3.46	-	-	-	-	-
8	2	3	-	-	3.67	4.17	4.94	-	-	-	-	-
9	-	-	-	1	-	-	-	-	-	-	-	1.69

Directional Gain (dBi)					
WLAN 2.4GHz		WLAN 5GHz UNII 1		WLAN 5GHz UNII 3	
4T1S	4T2S	4T1S	4T2S	4T1S	4T2S
6.66	3.67	4.32	4.17	5.09	4.94

Note2: The above information was declared by manufacturer.

WLAN 6GHz: The directional gain is calculated which follows the procedure of KDB 662911 D01.

WLAN 2.4GHz/5GHz: The directional gain is measured which follows the procedure of KDB 662911 D03.

The antenna report is provided in the operational description for this application.

For 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax (4TX/4RX):

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 function:

For IEEE 802.11a/n/ac/ax (4TX/4RX):

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 6GHz function:

For IEEE 802.11ax (4TX/4RX):

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:

For Bluetooth mode (1TX/1RX)

Only Port 1 can be use as transmit and receive antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.94	0.27	12.48m	100
802.11g	0.968	0.14	4.28m	300
802.11ax HEW20-BF (4T1S)	0.945	0.25	2.926m	1k
802.11ax HEW20-BF (4T2S)	0.976	0.11	4.368m	300
802.11ax HEW40-BF (4T1S)	0.952	0.21	4.357m	300

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
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz and ax in 6GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	accessMTool(ver 3.2.1.3), DOS [6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Brand Name	Model Name	Description
ASUS	ET12	All the models are identical, the different model names served as a marketing strategy.
	ZenWiFi ET12	
	ASUS ZenWiFi ET12	

Note: From the above model: ET12 was selected as representative model for the test and its data was recorded in this report.

The above information was declared by manufacturer.

1.1.6 Table for components source information

Items	Main Source	Second Source
Transceiver (2.5G LAN)	Brand: MAXLINEAR Model: GPY211	Brand: Broadcom Model: BCM50991

Note: The above information was declared by manufacturer.

1.1.7 Table for EUT Supports Function

Function	Support Type	Remark
AP Router	Master	Support 2.4GHz/5GHz/6GHz
Bridge	Slave without radar detection	Support 2.4GHz/5GHz
Repeater	Master	Support 2.4GHz/5GHz
Mesh	Master	Support 2.4GHz/5GHz/6GHz

Note: From the above, AP Router (Master) has been selected to test AC power-line conducted emissions and Emissions in Restricted Frequency Bands below 1GHz.

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:

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Lucas Huang	22.4-22.8 / 55~60	Sep. 28, 2021~ Oct. 06, 2021
Radiated<1GHz	03CH05-CB	Stim Sung	23.5-24.6 / 55-59	Oct. 14, 2021 ~ Oct. 19, 2021
Radiated>1GHz	03CH02-CB	Stim Sung	24.2-26.1 / 55-58	Jul. 21, 2021 ~ Sep. 30, 2021
	03CH06-CB	Stim Sung	24.4-25.5 / 55-58	Jul. 21, 2021 ~ Sep. 30, 2021
Radiated Co-location	03CH05-CB	Stim Sung	23.5-24.6 / 55-59	Oct. 04, 2021
AC Conduction	CO01-CB	Peter Wu	22~24 / 58~60	Sep. 09, 2021



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 (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

For 4T1S:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	92
2437MHz	92
2462MHz	92
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	95
2437MHz	95
2462MHz	96
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	83
2417MHz	94
2437MHz	90
2457MHz	95
2462MHz	87
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	84
2437MHz	84
2452MHz	84

For 4T2S:

Mode	Power Setting
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-
2437MHz	94

- Note1: There are two modes of EUT for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode, after evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record in this test report.
- Note2: Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.

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 Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + 2.5G-PHY(Main source) + Adapter 1
2	EUT + 2.5G-PHY(Main source) + Adapter 2
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT + 2.5G-PHY (Second source) + Adapter 1
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
1	EUT + 2.5G-PHY(Main source)

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 was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis + 2.5G-PHY(Main source) + Adapter 1
2	EUT in Y axis + 2.5G-PHY(Main source) + Adapter 2
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Y axis + 2.5G-PHY (Second source) + Adapter 1
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
	CTX - EUT in Y axis + 2.5G-PHY(Main source)

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
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis + 2.5G-PHY(Main source) / 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 + 2.5G-PHY(Main source) / WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + Bluetooth
Refer to Sporton Test Report No.: FA0D2518 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS(ver 6.1.7601).
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	Remark
Adapter 1	DELTA	ADP-45FE	INPUT: 100-240V~1.2A, 50-60Hz OUTPUT: 19.0V, 2.37A, 45.0W	With the DC Power cable: Non-shielded, 1.5m
Adapter 2	AcBel	ADH011	INPUT: 100-240V~1.4A, 50-60Hz OUTPUT: 19.5V, 2.31A, 45.0W	With the DC Power cable: Non-shielded, 1.5m
Others				
Power cable*1: Non-shielded, 0.9m RJ-45 cable*1: Non-shielded, 1.5m				

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.5G WAN PC	DELL	T3400	N/A
B	2.5G LAN PC	DELL	T3400	N/A
C	LAN1 NB	DELL	E6430	N/A
D	LAN2 NB	DELL	E6430	N/A
E	2G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A
G	6G Device	ASUS	ET12	MSQ-RTAXE4P00
H	Device NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.5G WAN PC	DELL	E4300	N/A
B	2.5G LAN PC	DELL	E4300	N/A
C	6G NB	DELL	E4300	N/A
D	2G NB	DELL	E4300	N/A
E	5G NB	DELL	E4300	N/A
F	6G Device	ASUS	ET12	MSQ-RTAXE4P00
G	LAN1 NB	DELL	E4300	N/A
H	LAN2 NB	DELL	E4300	N/A

**For Radiated (above 1GHz):****For Non-beamforming mode:**

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

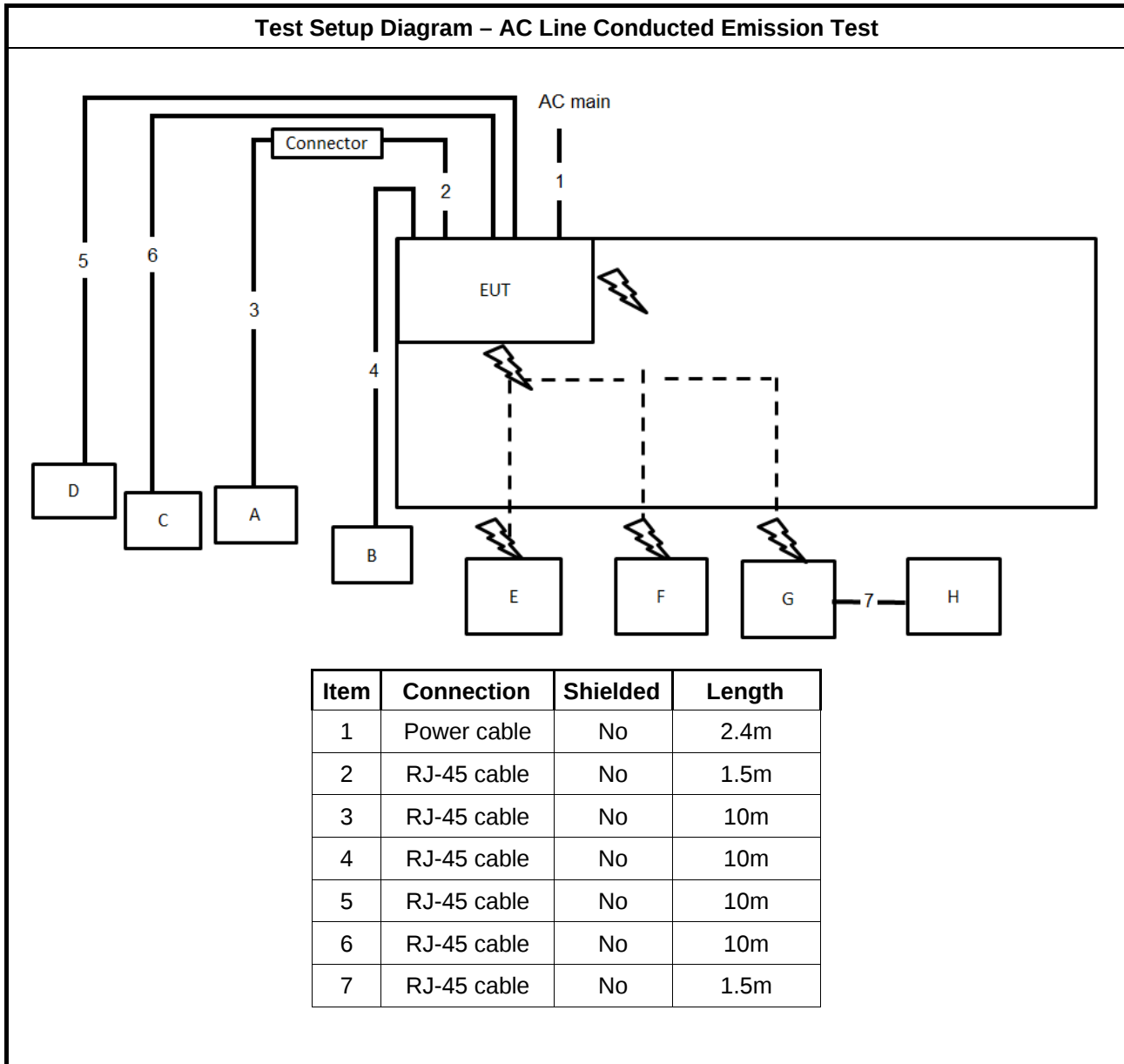
For Beamforming mode:

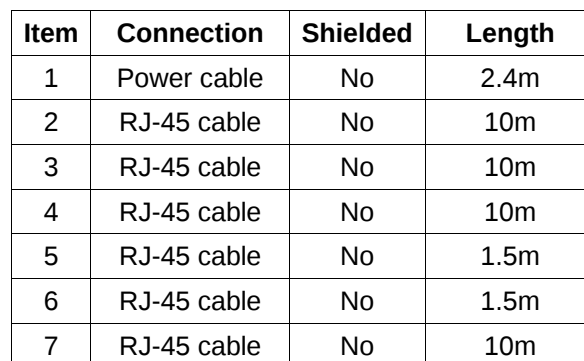
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	RX Device	ASUS	ET12	MSQ-RTAXE4P00
C	Notebook	DELL	E4300	N/A

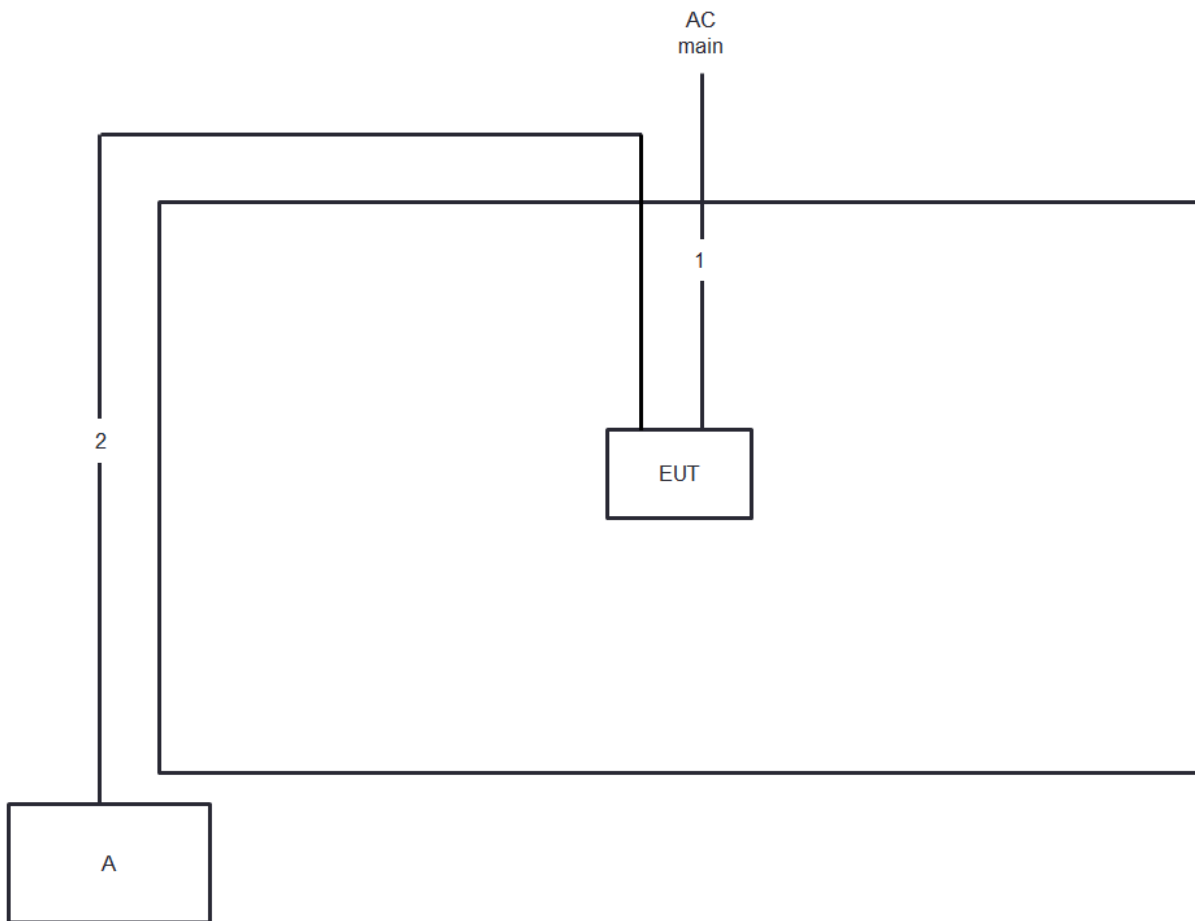
For RF Conducted:

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

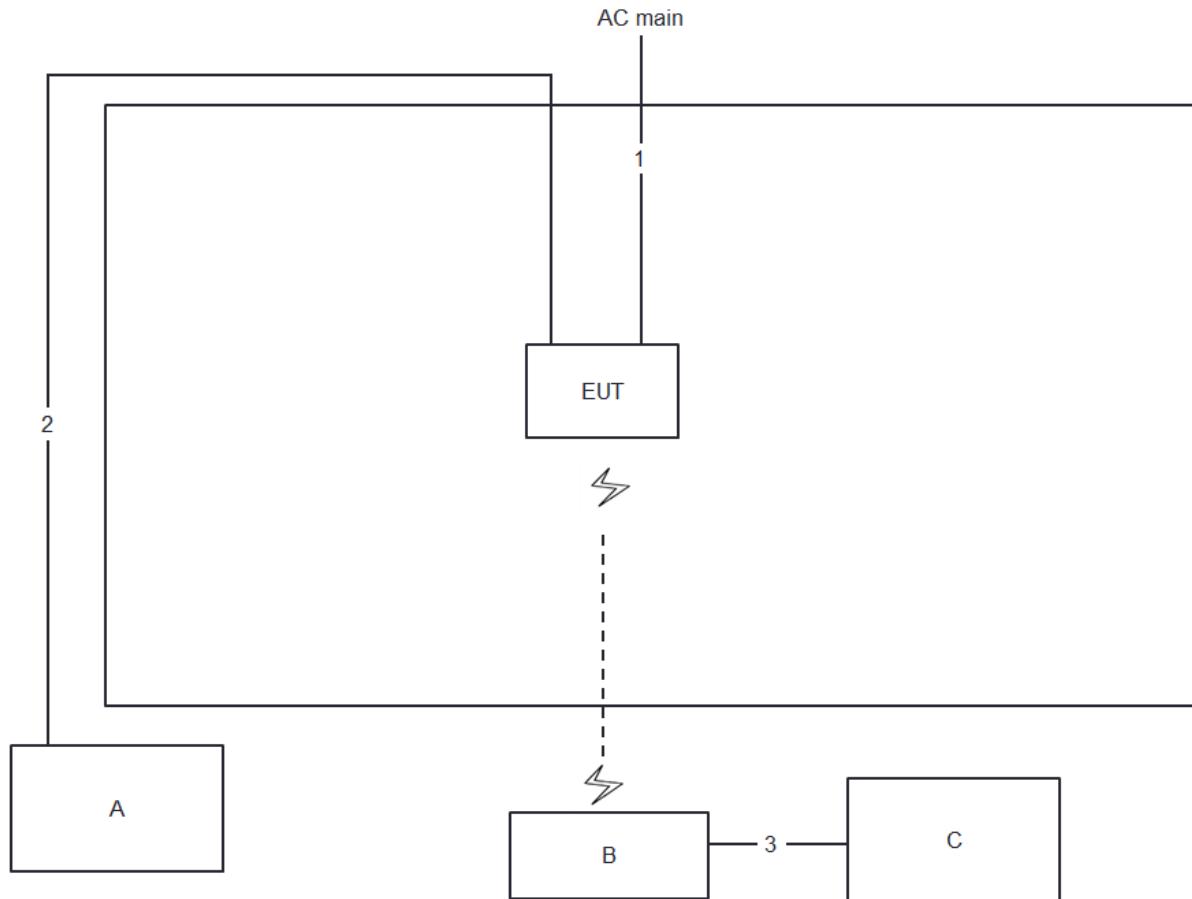
2.6 Test Setup Diagram





Test Setup Diagram - Radiated Test > 1GHz / Non-beamforming mode


Item	Connection	Shielded	Length
1	Power cable	No	2.4m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz / beamforming mode


Item	Connection	Shielded	Length
1	Power cable	No	2.4m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m



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.		

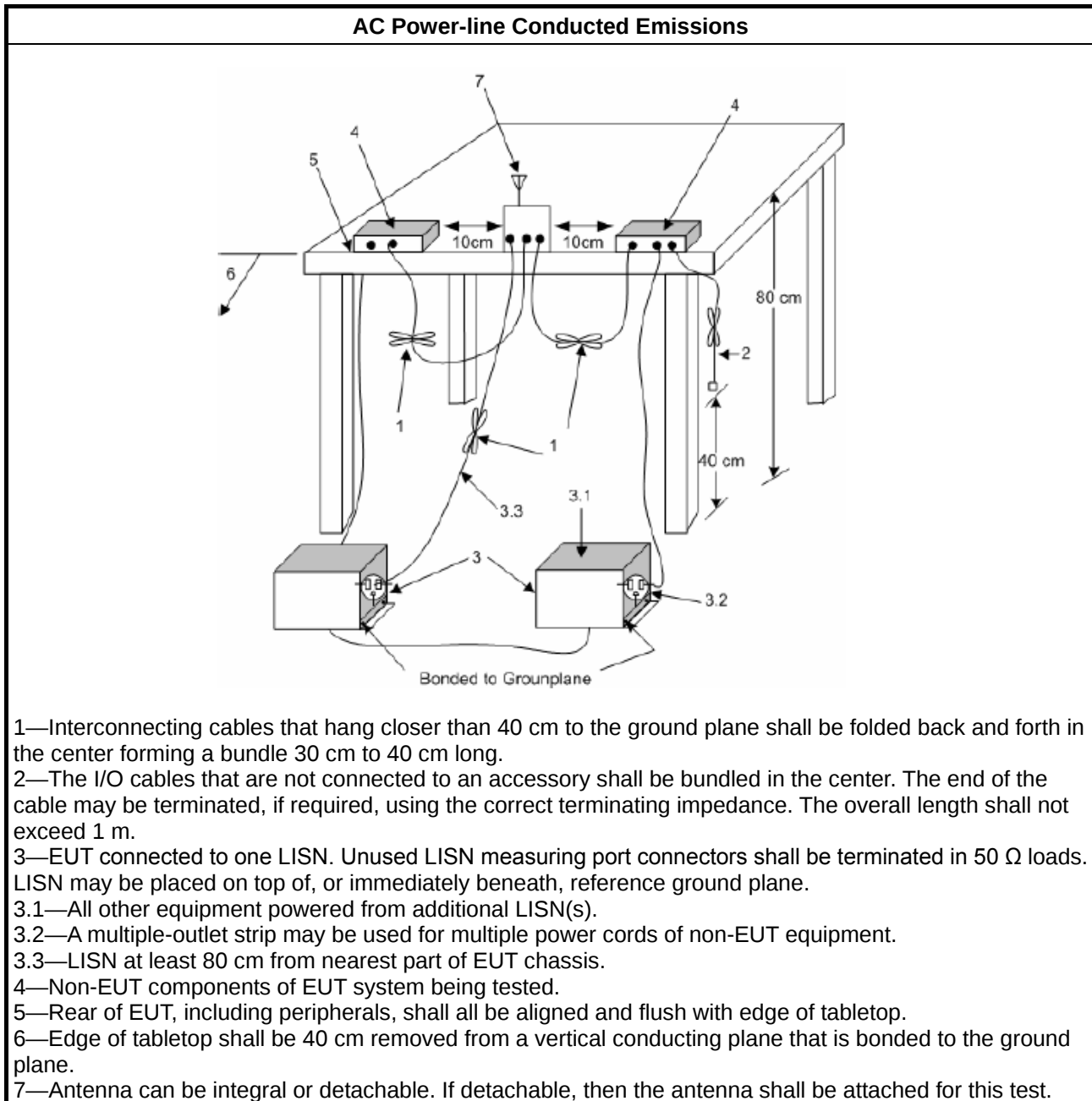
3.1.2 Measuring Instruments

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 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

3.1.6 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.

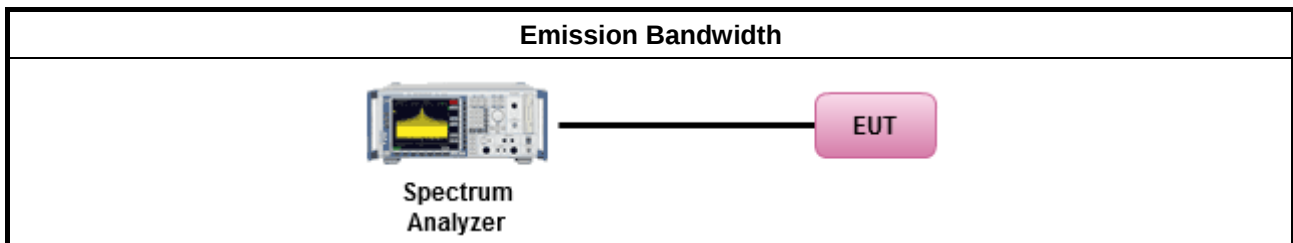
3.2.2 Measuring Instruments

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

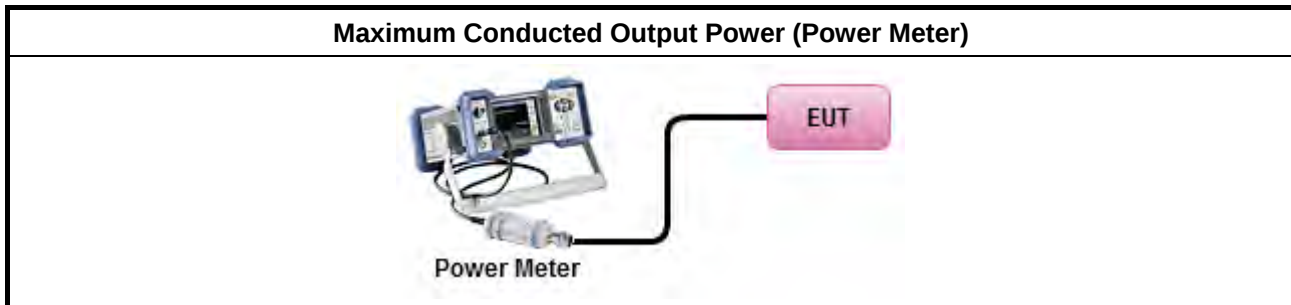
Refer a test equipment and calibration data table in this test report.



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 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.	
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
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

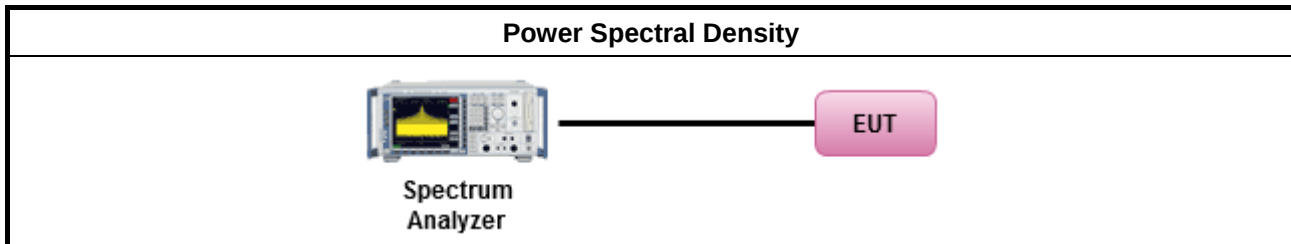
3.4.2 Measuring Instruments

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 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains 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 chains 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 chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

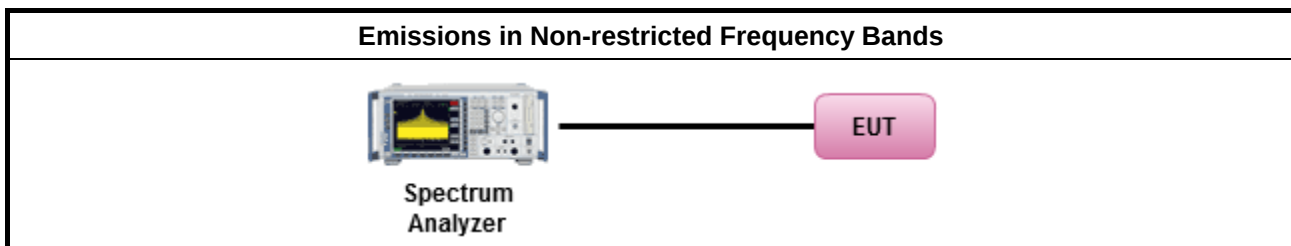
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
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

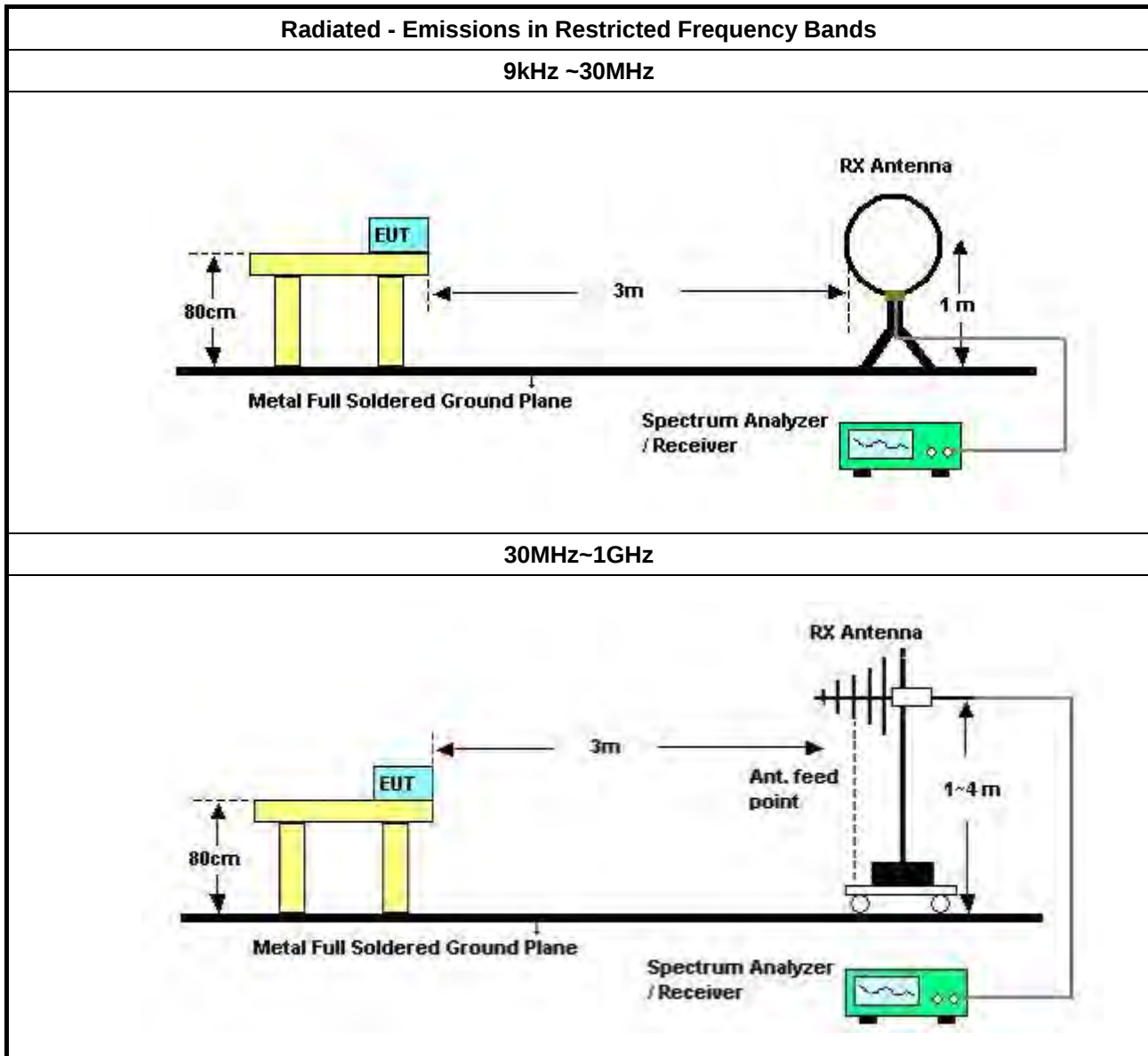
Refer a test equipment and calibration data table in this test report.

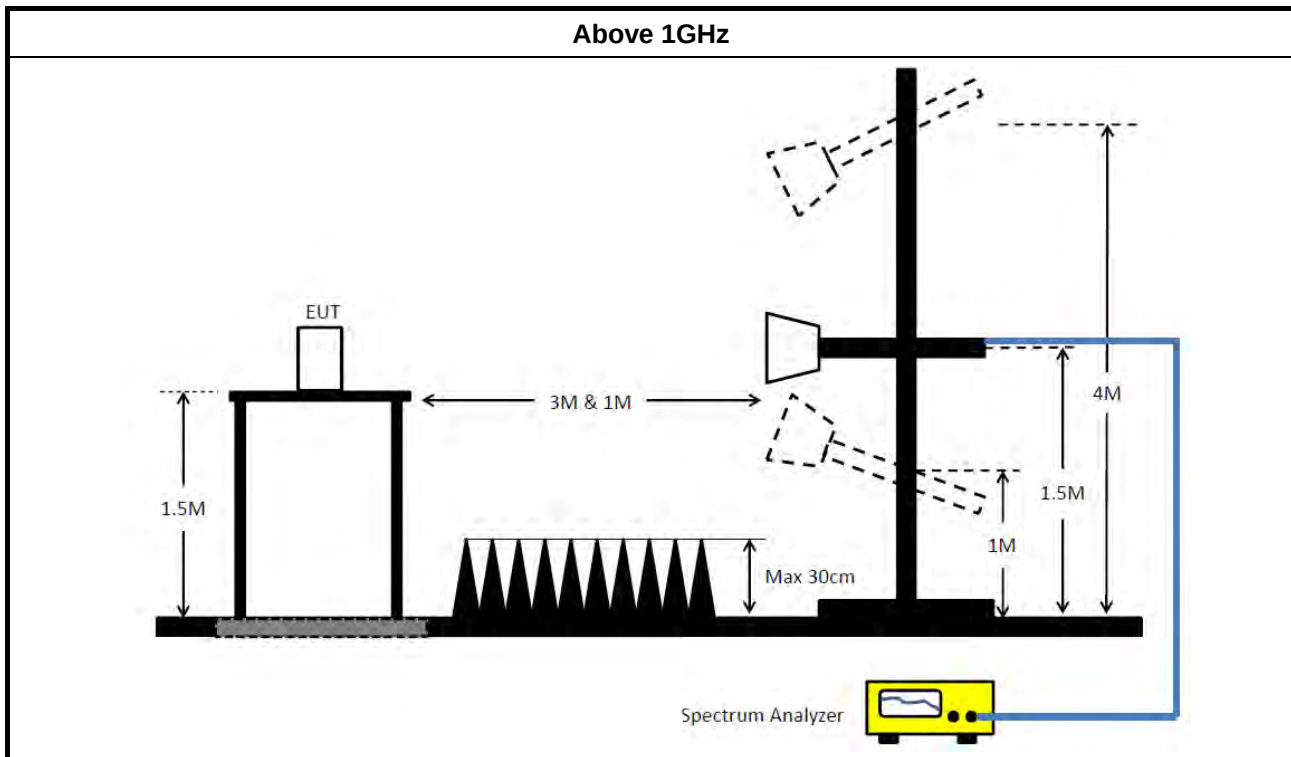


3.6.3 Test Procedures

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 chains 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





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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 10th 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	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 08, 2020	Nov. 07, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Sep. 14, 2021	Sep. 13, 2022	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2020	Oct. 01, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Sep. 21, 2020	Sep. 20, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 04, 2021	Aug. 03, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 06, 2021	May 05, 2022	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 15, 2020	Dec. 14, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

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



Conducted Emissions at Powerline

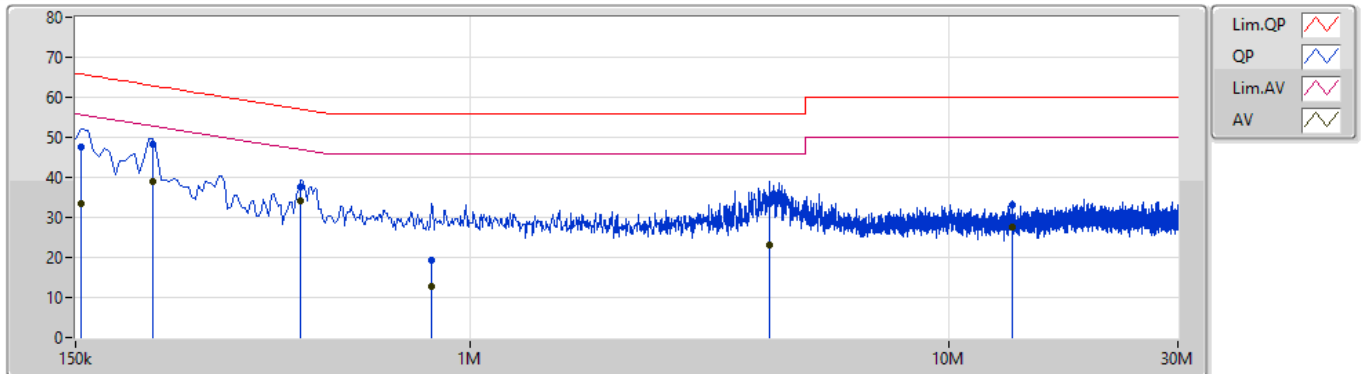
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	442.5k	37.48	47.01	-9.53	Neutral

Mode 3

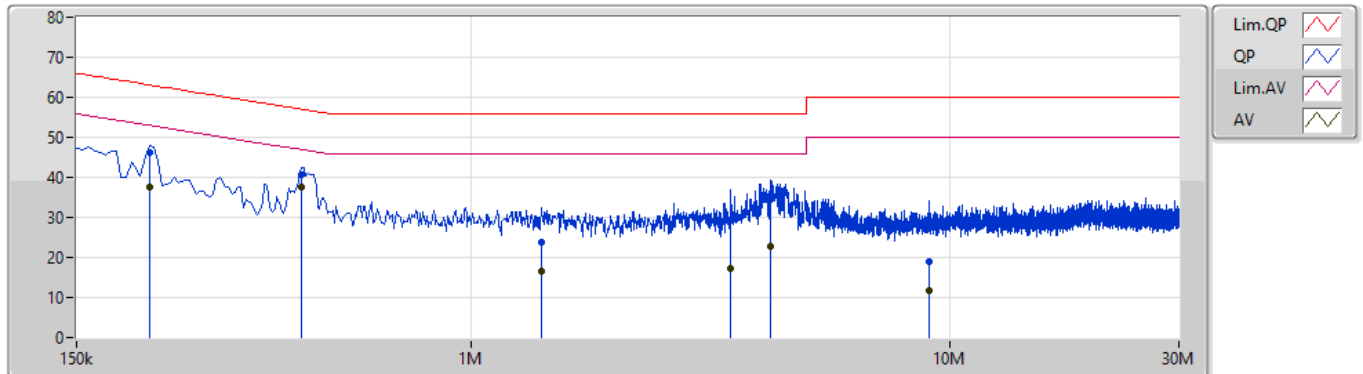
09/09/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	47.74	65.75	-18.01	9.89	Line	-	37.85	0.04	0.04	9.81			
AV	154.5k	33.52	55.75	-22.23	9.89	Line	-	23.63	0.04	0.04	9.81			
QP	217.5k	48.24	62.92	-14.68	9.89	Line	-	38.35	0.04	0.04	9.81			
AV	217.5k	39.13	52.92	-13.79	9.89	Line	-	29.24	0.04	0.04	9.81			
QP	442.5k	37.71	57.01	-19.30	9.90	Line	-	27.81	0.04	0.04	9.82			
AV	442.5k	34.12	47.01	-12.89	9.90	Line	"Worst"	24.22	0.04	0.04	9.82			
QP	829.5k	19.48	56.00	-36.52	9.93	Line	-	9.55	0.06	0.04	9.83			
AV	829.5k	12.63	46.00	-33.37	9.93	Line	-	2.70	0.06	0.04	9.83			
QP	4.209M	33.50	56.00	-22.50	10.12	Line	-	23.38	0.13	0.12	9.87			
AV	4.209M	23.21	46.00	-22.79	10.12	Line	-	13.09	0.13	0.12	9.87			
QP	13.56M	33.17	60.00	-26.83	10.34	Line	-	22.83	0.26	0.17	9.91			
AV	13.56M	27.59	50.00	-22.41	10.34	Line	-	17.25	0.26	0.17	9.91			

Mode 3

09/09/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	213k	46.13	63.09	-16.96	9.88	Neutral	-	36.25	0.03	0.04	9.81			
AV	213k	37.59	53.09	-15.50	9.88	Neutral	-	27.71	0.03	0.04	9.81			
QP	442.5k	40.77	57.01	-16.24	9.89	Neutral	-	30.88	0.03	0.04	9.82			
AV	442.5k	37.48	47.01	-9.53	9.89	Neutral	"Worst"	27.59	0.03	0.04	9.82			
QP	1.406M	23.72	56.00	-32.28	9.94	Neutral	-	13.78	0.06	0.05	9.83			
AV	1.406M	16.57	46.00	-29.43	9.94	Neutral	-	6.63	0.06	0.05	9.83			
QP	3.476M	29.14	56.00	-26.86	10.06	Neutral	-	19.08	0.09	0.11	9.86			
AV	3.476M	17.30	46.00	-28.70	10.06	Neutral	-	7.24	0.09	0.11	9.86			
QP	4.227M	34.46	56.00	-21.54	10.10	Neutral	-	24.36	0.11	0.12	9.87			
AV	4.227M	22.73	46.00	-23.27	10.10	Neutral	-	12.63	0.11	0.12	9.87			
QP	9.006M	18.89	60.00	-41.11	10.25	Neutral	-	8.64	0.19	0.16	9.90			
AV	9.006M	11.89	50.00	-38.11	10.25	Neutral	-	1.64	0.19	0.16	9.90			



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	7.05M	10.42M	10M4G1D	6.525M	10.32M
802.11g_Nss1_(6Mbps)_4TX	16.35M	17.041M	17M0D1D	16.275M	16.717M

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

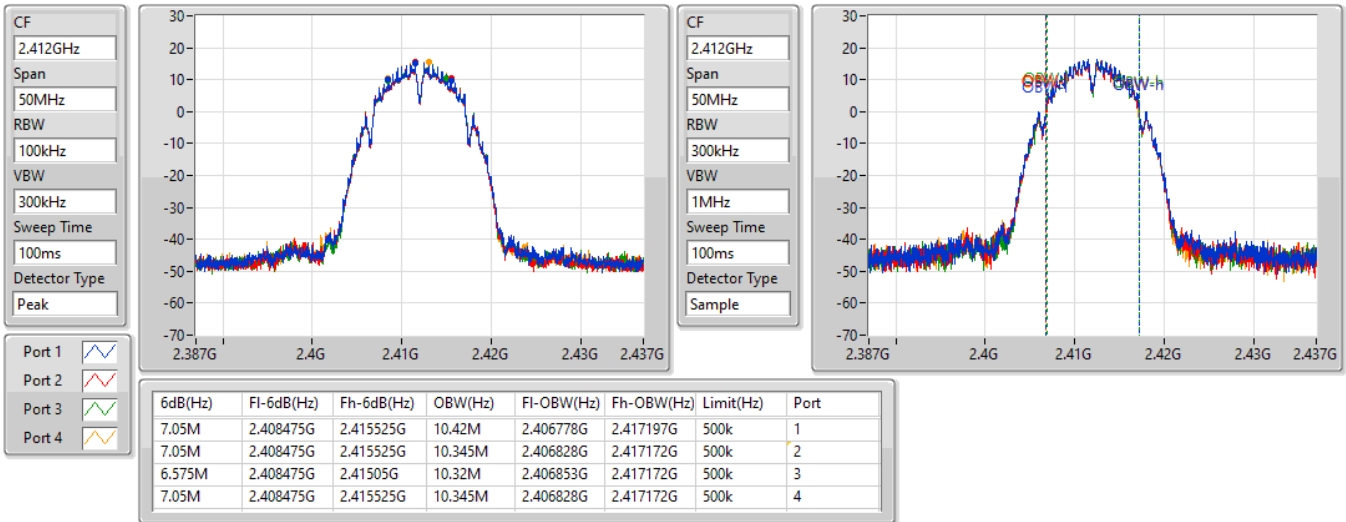
Result

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	10.42M	7.05M	10.345M	6.575M	10.32M	7.05M	10.345M
2437MHz	Pass	500k	7.025M	10.37M	6.55M	10.345M	7.025M	10.37M	7.025M	10.345M
2462MHz	Pass	500k	7.05M	10.42M	6.575M	10.37M	7.05M	10.345M	6.525M	10.345M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.275M	16.867M	16.35M	16.842M	16.325M	16.842M	16.325M	16.967M
2437MHz	Pass	500k	16.325M	16.717M	16.35M	16.767M	16.325M	16.717M	16.325M	16.792M
2462MHz	Pass	500k	16.35M	16.792M	16.325M	17.041M	16.35M	16.917M	16.35M	16.867M

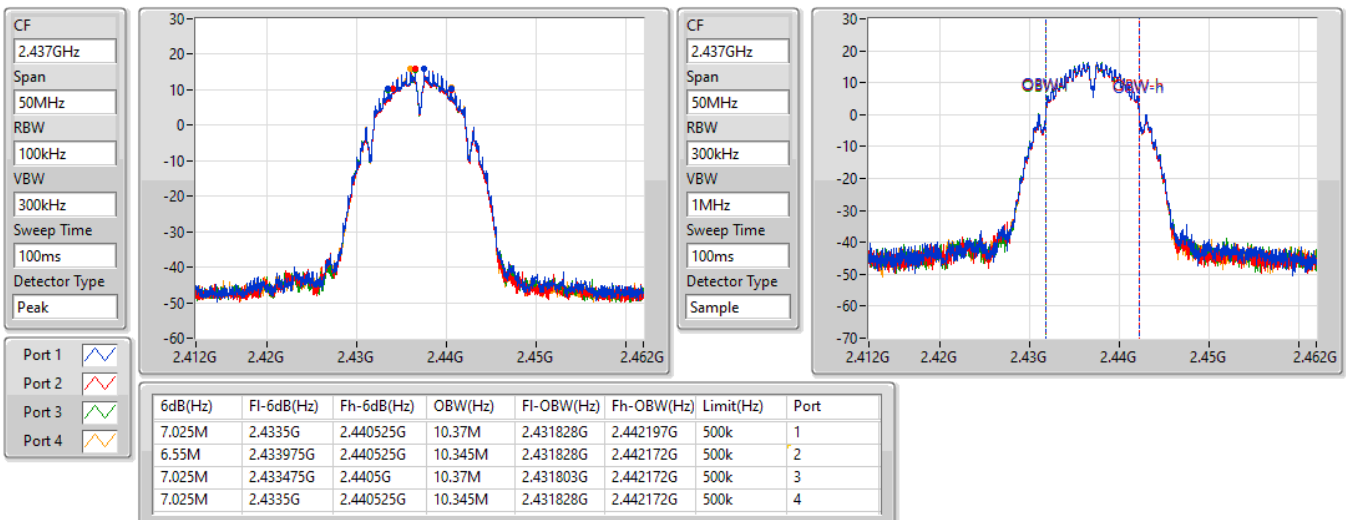
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_4TX
EBW
2412MHz

28/09/2021

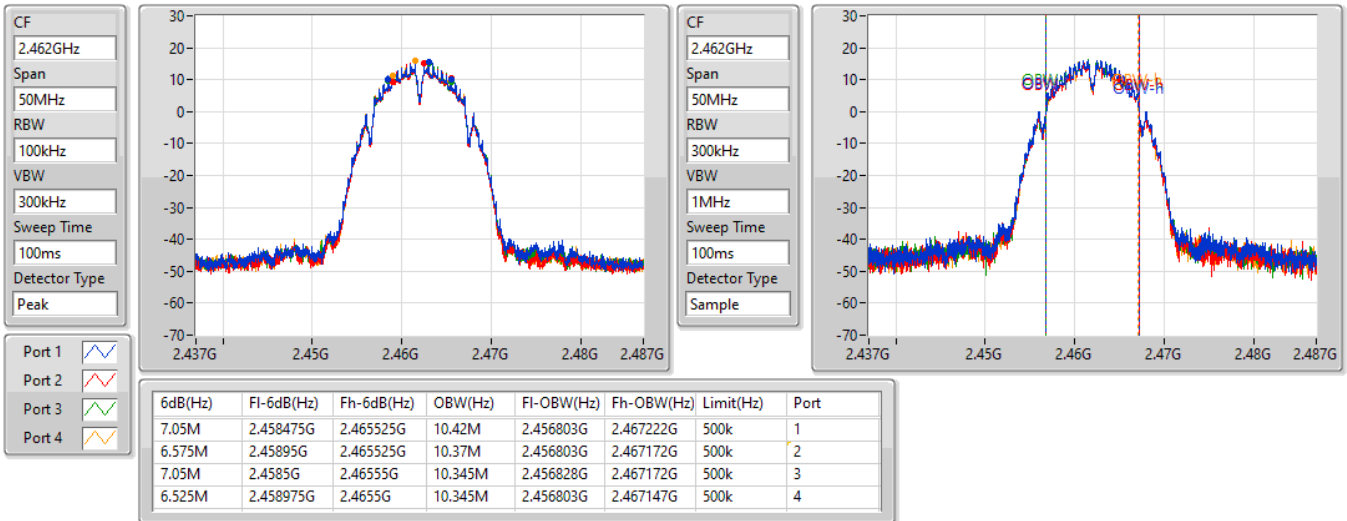

802.11b_Nss1,(1Mbps)_4TX
EBW
2437MHz

28/09/2021

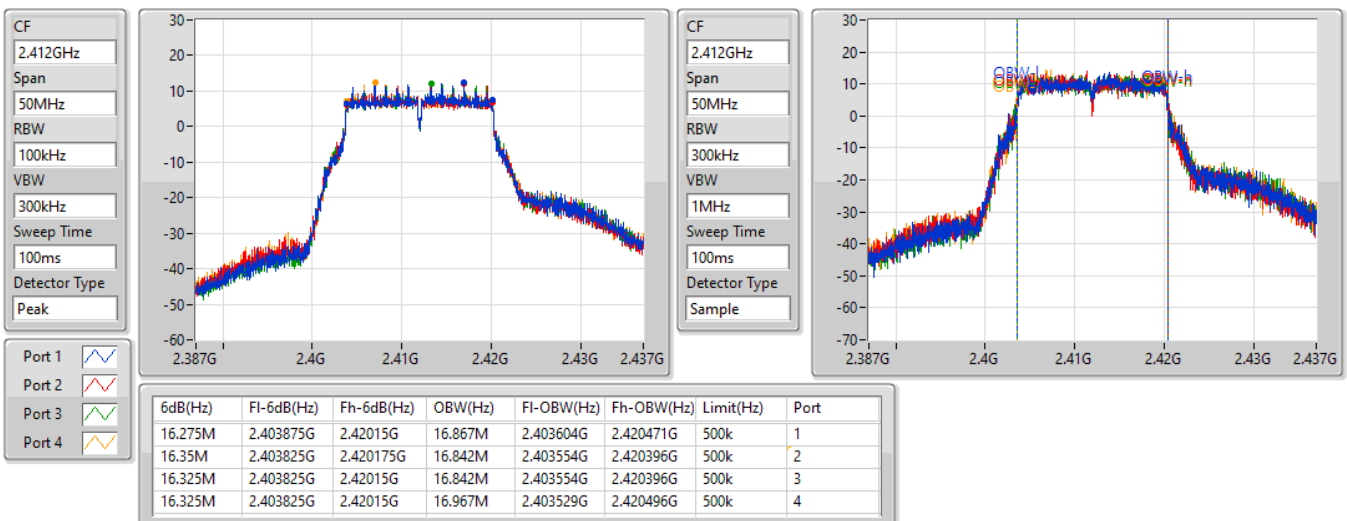


802.11b_Nss1,(1Mbps)_4TX
EBW
2462MHz

28/09/2021

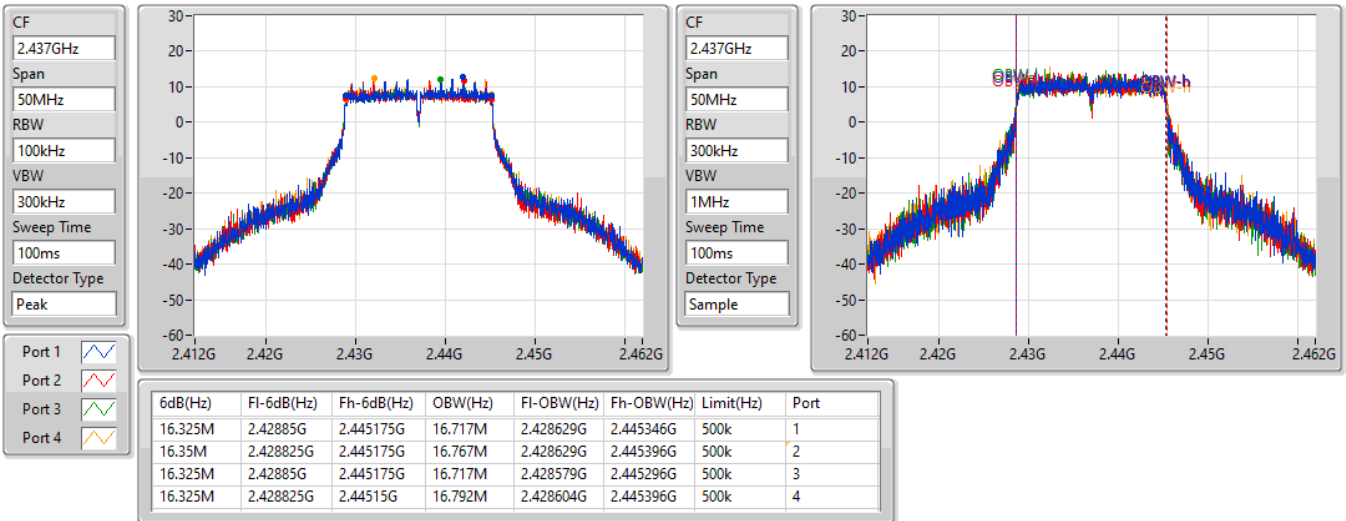

802.11g_Nss1,(6Mbps)_4TX
EBW
2412MHz

28/09/2021

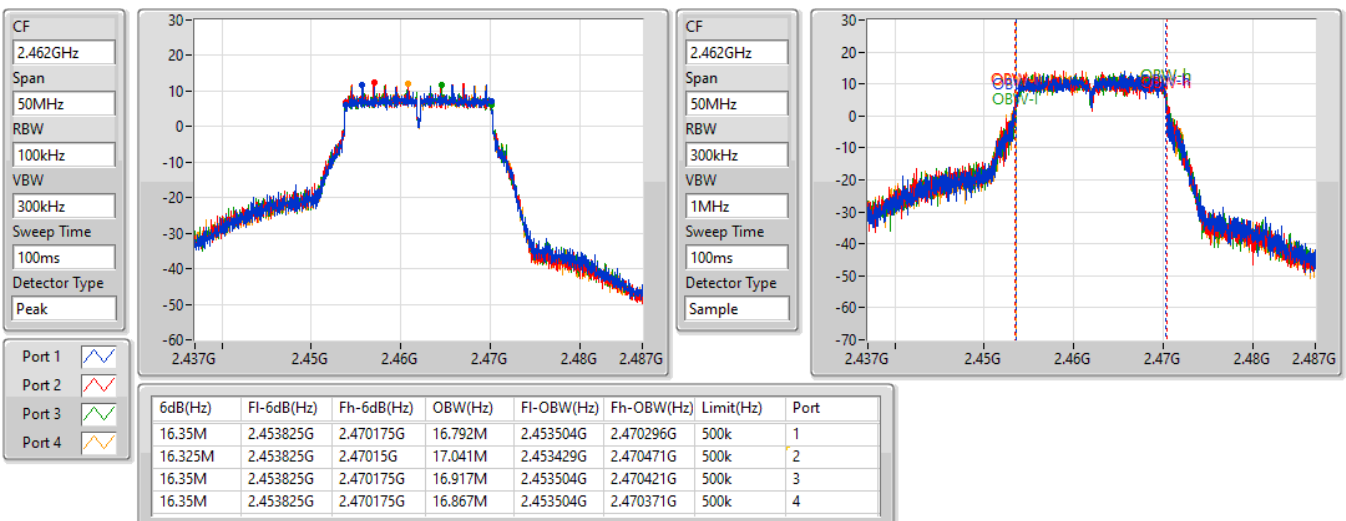


802.11g_Nss1,(6Mbps)_4TX
EBW
2437MHz

28/09/2021


802.11g_Nss1,(6Mbps)_4TX
EBW
2462MHz

28/09/2021





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.975M	19.09M	19M1D1D	18.8M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.9M	38.081M	38M1D1D	37.55M	37.781M

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

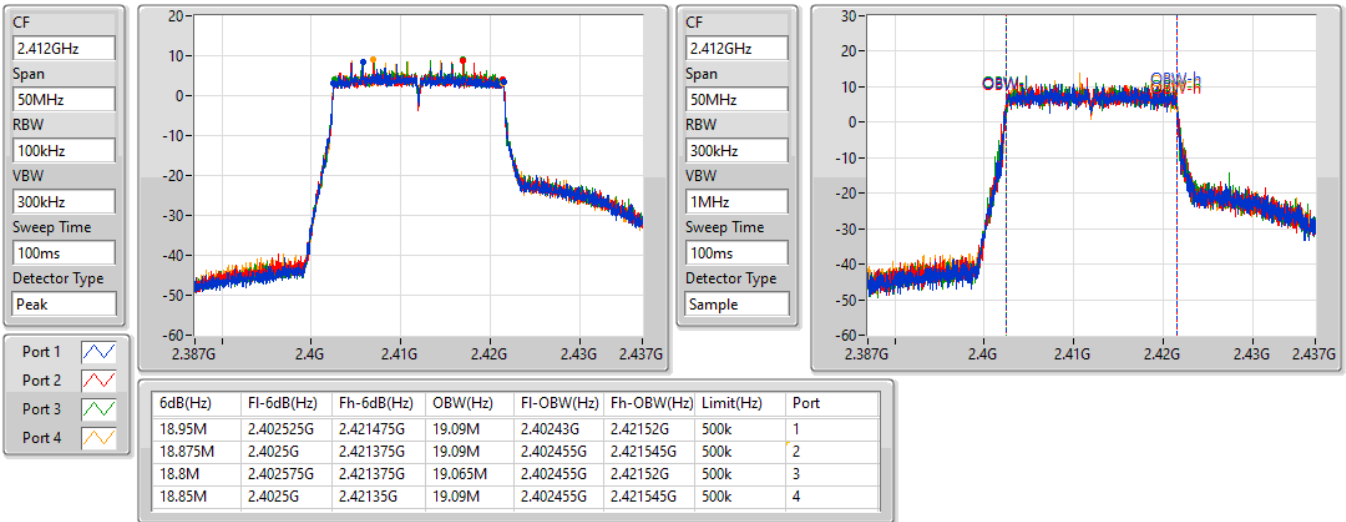
Result

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.95M	19.09M	18.875M	19.09M	18.8M	19.065M	18.85M	19.09M
2437MHz	Pass	500k	18.95M	18.991M	18.925M	18.991M	18.975M	19.04M	18.925M	19.015M
2462MHz	Pass	500k	18.9M	19.04M	18.9M	19.04M	18.825M	19.04M	18.925M	19.065M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.65M	38.031M	37.6M	38.081M	37.7M	38.031M	37.75M	38.081M
2437MHz	Pass	500k	37.7M	37.781M	37.9M	37.831M	37.6M	37.831M	37.7M	38.081M
2452MHz	Pass	500k	37.7M	38.031M	37.55M	37.981M	37.75M	37.981M	37.65M	38.031M

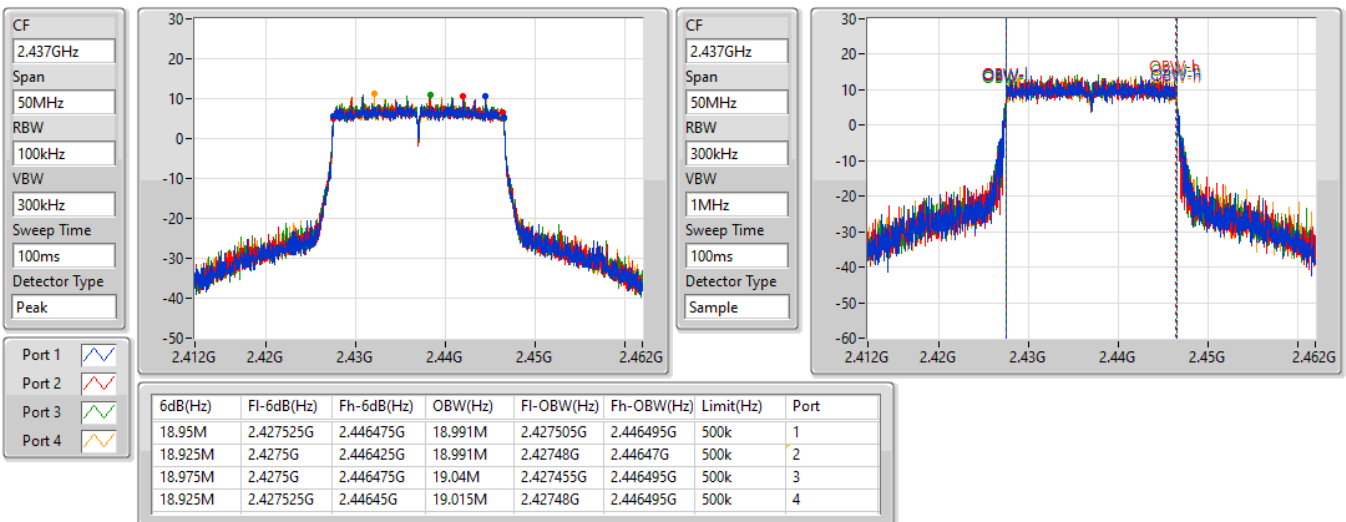
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
2412MHz

28/09/2021

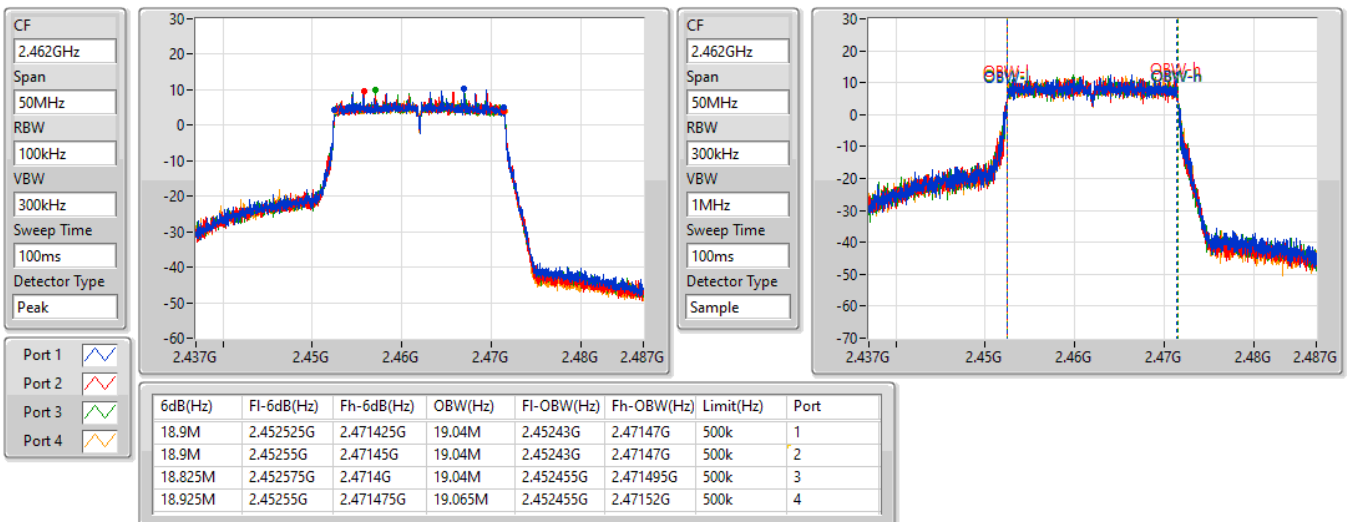

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

28/09/2021

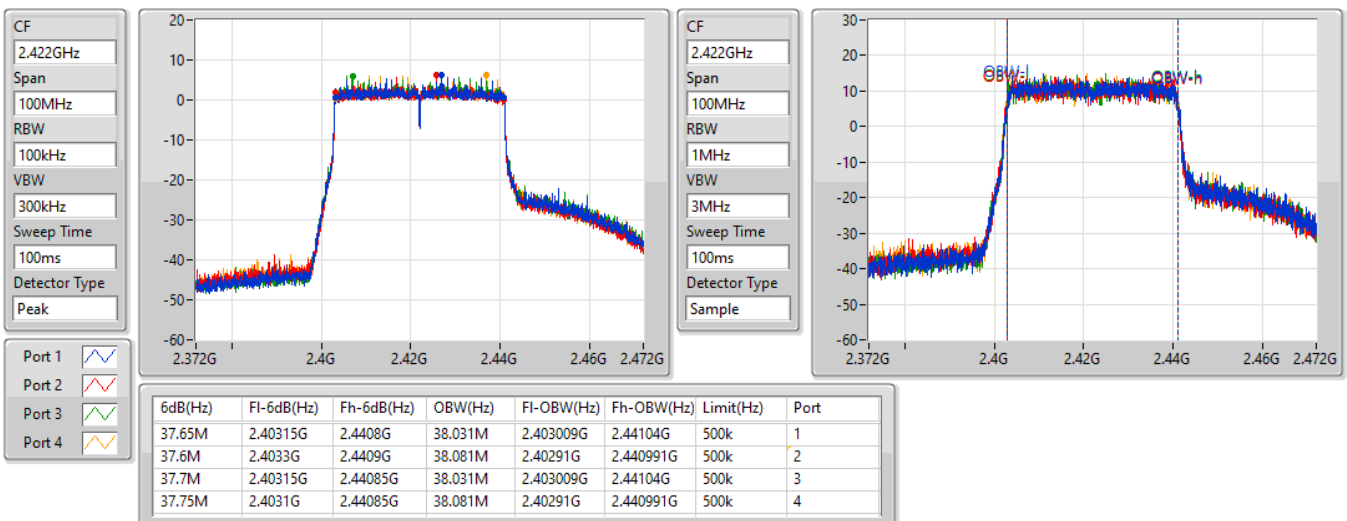


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
2462MHz

28/09/2021

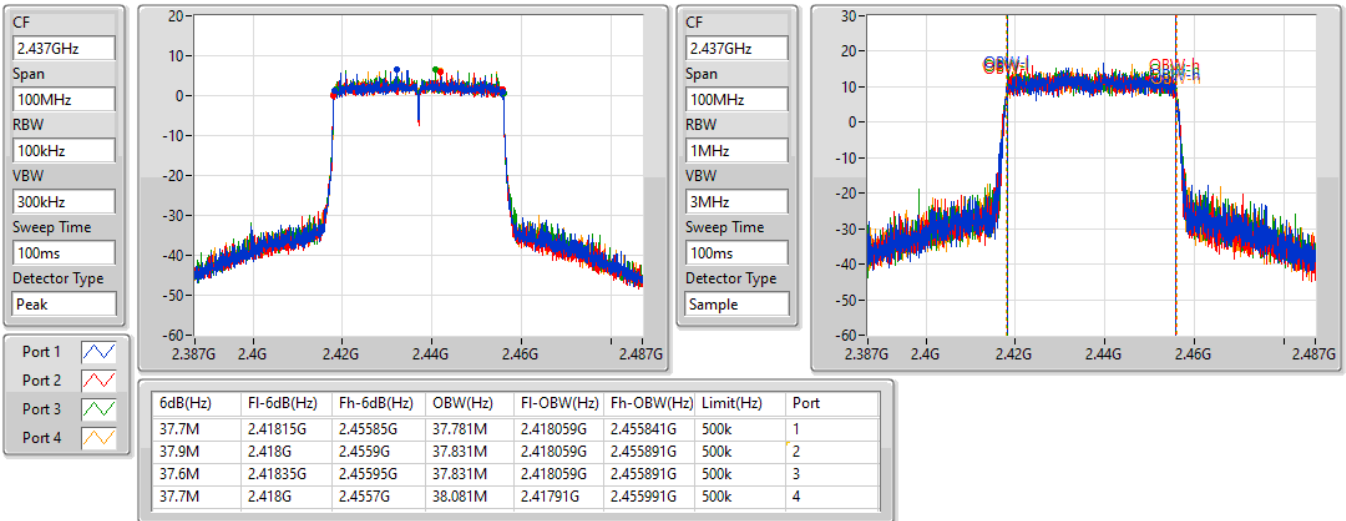

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
2422MHz

28/09/2021

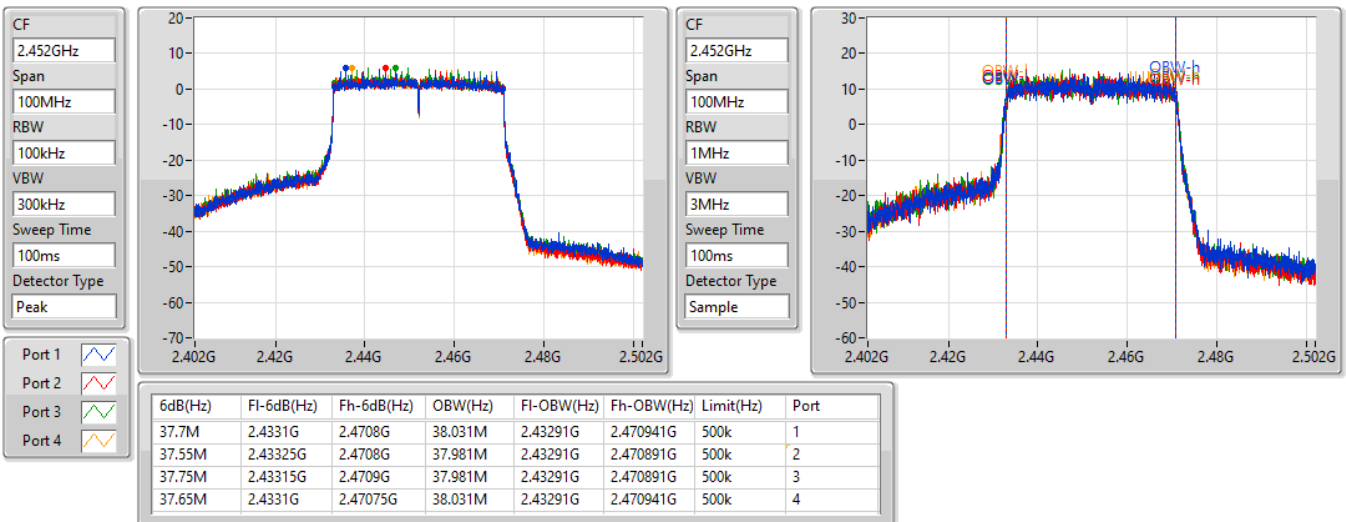


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

28/09/2021


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
2452MHz

28/09/2021





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	19.025M	19.065M	19M1D1D	18.95M	19.04M

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)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	500k	18.95M	19.04M	18.95M	19.065M	19.025M	19.04M	18.95M	19.065M

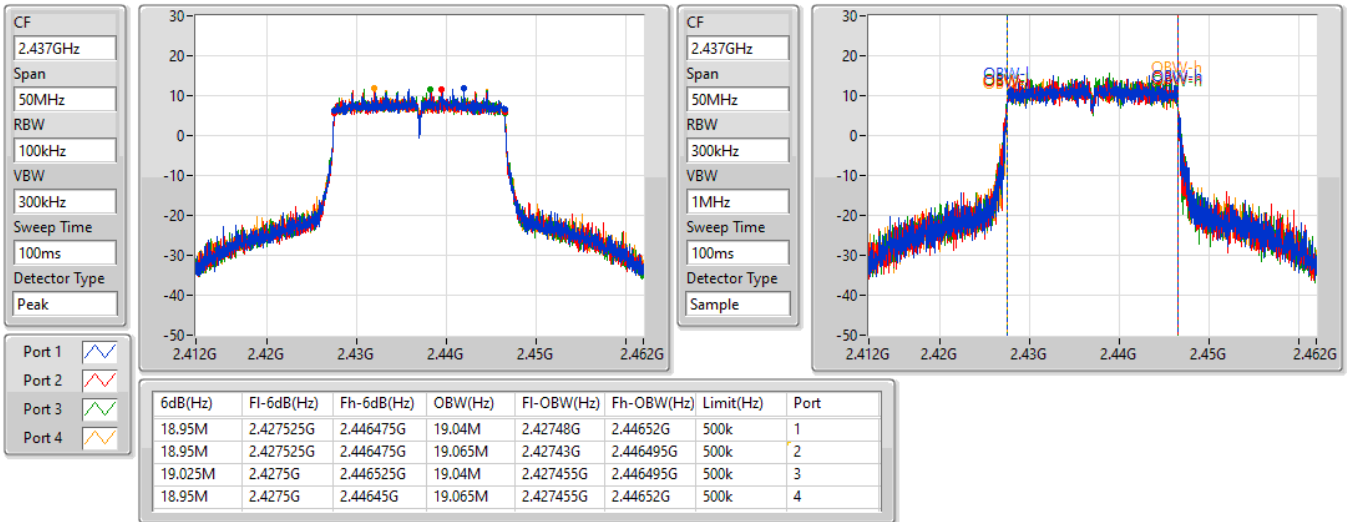
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

2437MHz

28/09/2021





Average Power_4T1S

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	29.90	0.97724
802.11g_Nss1,(6Mbps)_4TX	29.96	0.99083



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	3.67	23.83	23.49	24.02	23.91	29.84	30.00
2437MHz	Pass	3.67	23.86	23.80	23.72	24.14	29.90	30.00
2462MHz	Pass	3.67	23.82	23.56	23.67	23.89	29.76	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.67	23.35	23.29	23.31	23.52	29.39	30.00
2437MHz	Pass	3.67	23.95	24.01	23.81	24.00	29.96	30.00
2462MHz	Pass	3.67	23.43	23.28	23.30	23.42	29.38	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.27	0.84528
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	27.55	0.56885

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.66	20.16	20.19	20.38	20.55	26.34	29.34
2417MHz	Pass	6.66	23.03	23.07	23.28	23.52	29.25	29.34
2437MHz	Pass	6.66	22.99	23.35	23.35	23.29	29.27	29.34
2457MHz	Pass	6.66	23.34	23.16	23.16	23.15	29.22	29.34
2462MHz	Pass	6.66	21.07	21.17	21.14	21.09	27.14	29.34
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	6.66	20.96	20.99	21.10	21.11	27.06	29.34
2437MHz	Pass	6.66	21.44	21.32	21.71	21.65	27.55	29.34
2452MHz	Pass	6.66	20.78	20.70	21.02	21.06	26.91	29.34

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	29.92	0.98175



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
2437MHz	Pass	3.67	23.79	23.83	23.92	24.06	29.92	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	1.89

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	6.66	1.37	-0.33	0.90	2.38	5.15	7.34
2437MHz	Pass	6.66	0.52	1.47	0.91	1.60	5.39	7.34
2462MHz	Pass	6.66	0.89	0.19	0.08	1.49	4.87	7.34
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.66	-2.93	-2.23	-1.92	-3.17	1.61	7.34
2437MHz	Pass	6.66	-1.81	-2.04	-2.41	-1.49	1.87	7.34
2462MHz	Pass	6.66	-2.51	-1.54	-1.90	-2.69	1.89	7.34

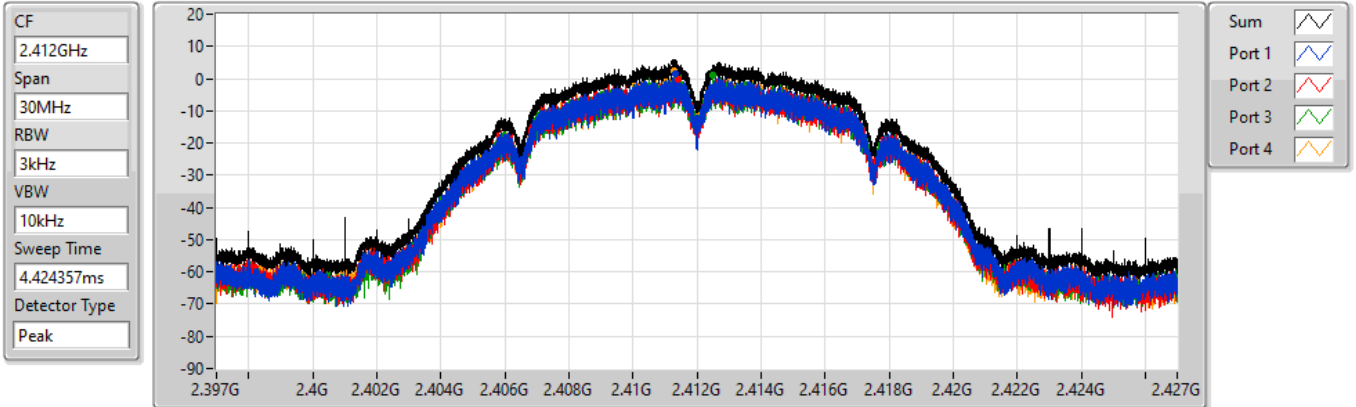
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

28/09/2021



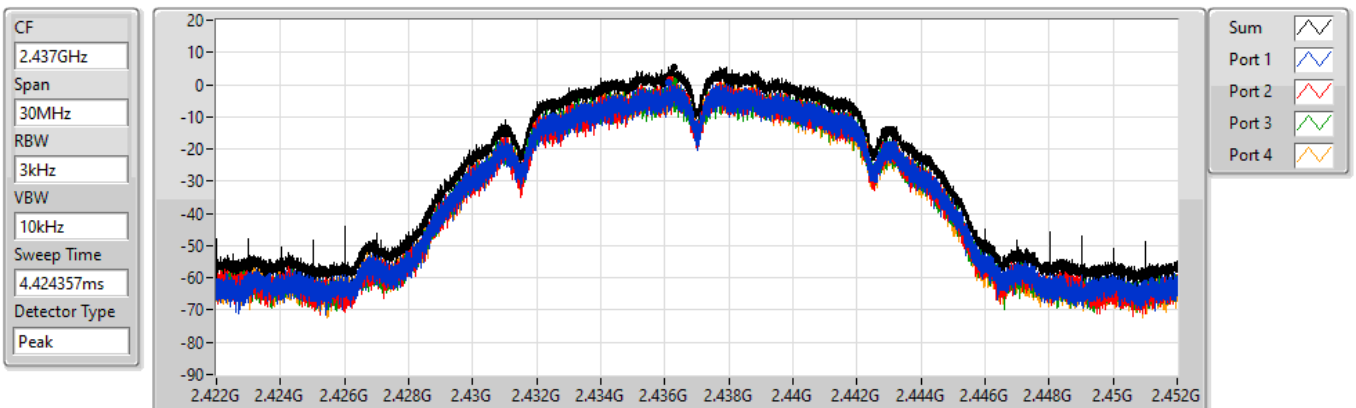
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.15	5.15	1.37	-0.33	0.90	2.38

802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

28/09/2021



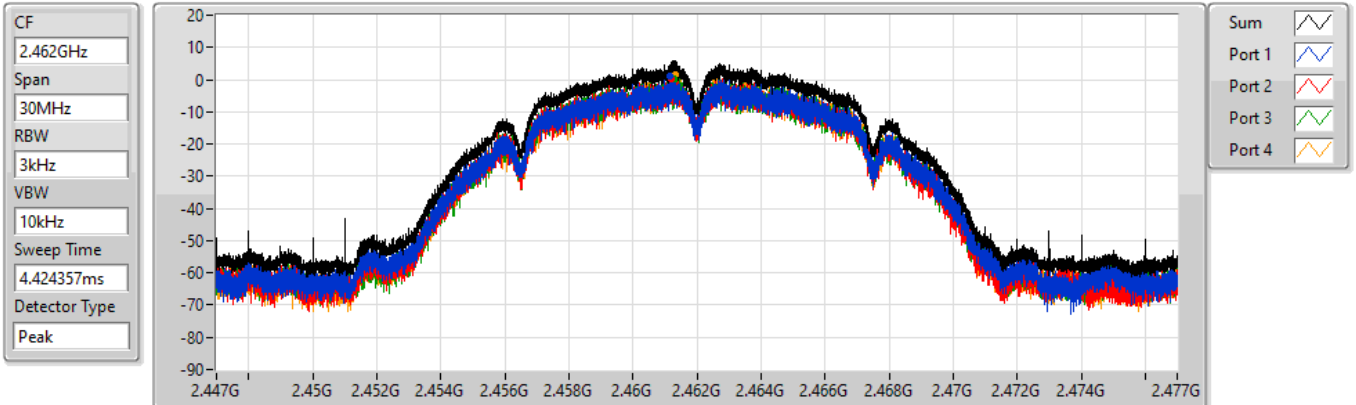
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.39	5.39	0.52	1.47	0.91	1.60

802.11b_Nss1,(1Mbps)_4TX

PSD

2462MHz

28/09/2021



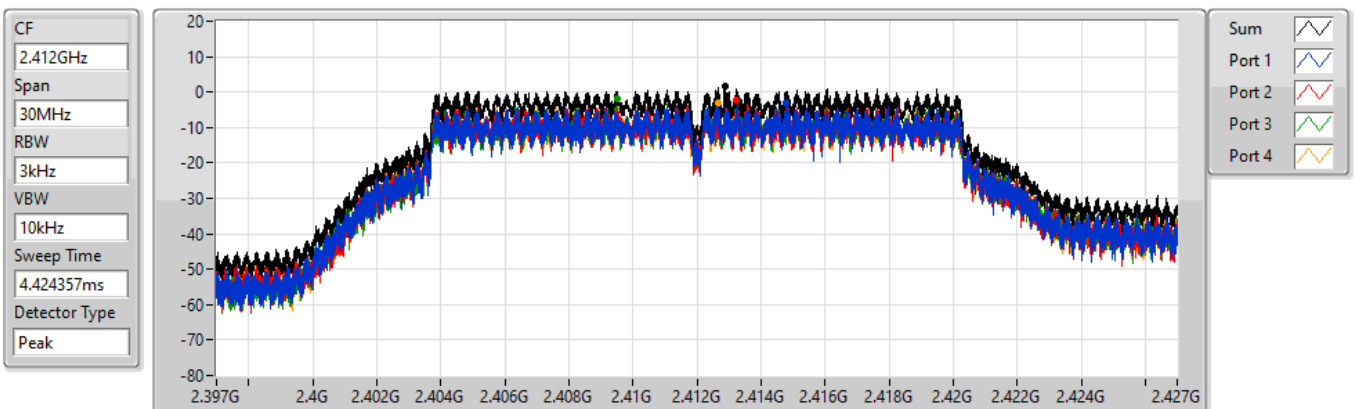
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.87	4.87	0.89	0.19	0.08	1.49

802.11g_Nss1,(6Mbps)_4TX

PSD

2412MHz

28/09/2021



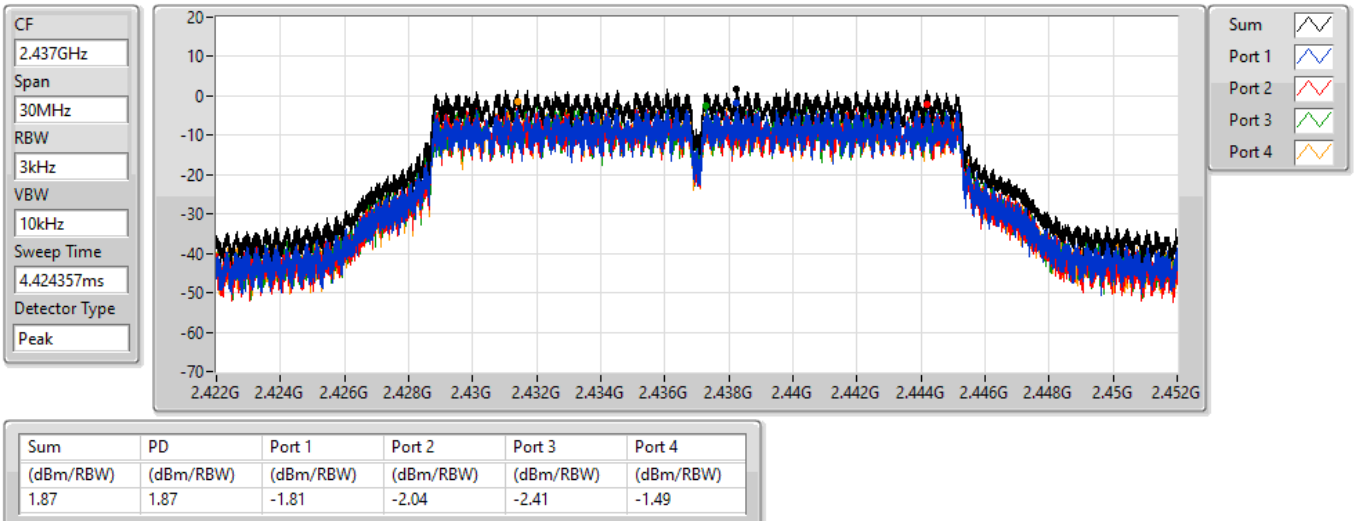
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.61	1.61	-2.93	-2.23	-1.92	-3.17

802.11g_Nss1,(6Mbps)_4TX

PSD

2437MHz

28/09/2021

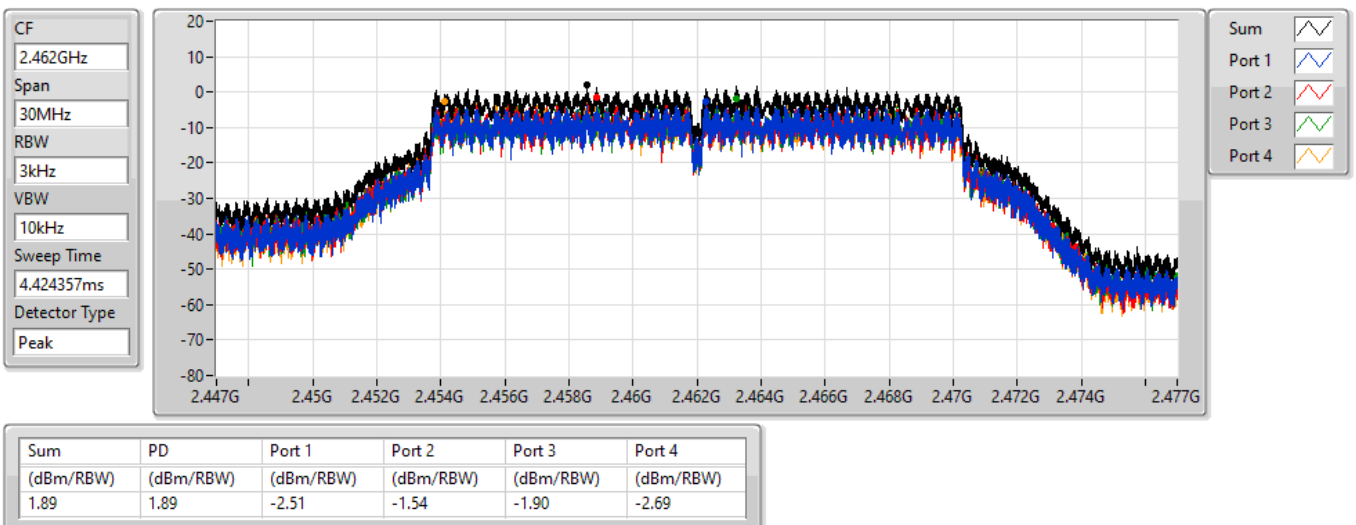


802.11g_Nss1,(6Mbps)_4TX

PSD

2462MHz

28/09/2021





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.20
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-4.13

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.66	-7.10	-6.42	-6.74	-6.12	-3.07	7.34
2437MHz	Pass	6.66	-4.02	-2.97	-3.70	-4.00	0.20	7.34
2462MHz	Pass	6.66	-5.79	-5.35	-6.38	-6.17	-2.11	7.34
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	6.66	-8.38	-9.13	-7.77	-8.05	-4.84	7.34
2437MHz	Pass	6.66	-7.73	-8.46	-8.07	-8.48	-4.93	7.34
2452MHz	Pass	6.66	-7.97	-8.78	-7.31	-8.43	-4.13	7.34

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2412MHz

28/09/2021

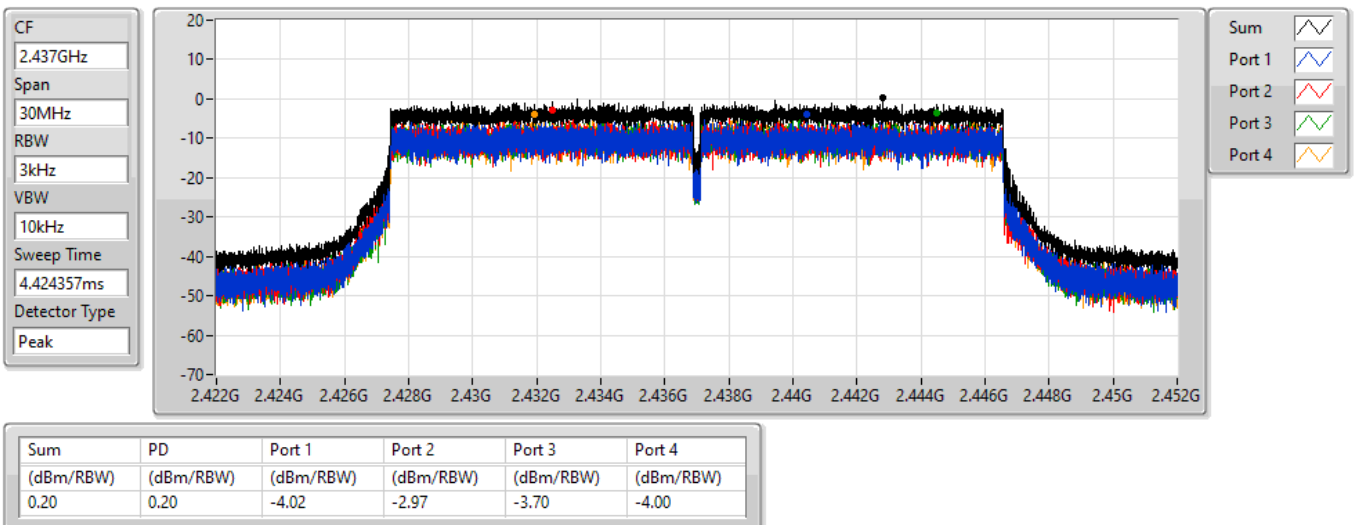


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

28/09/2021

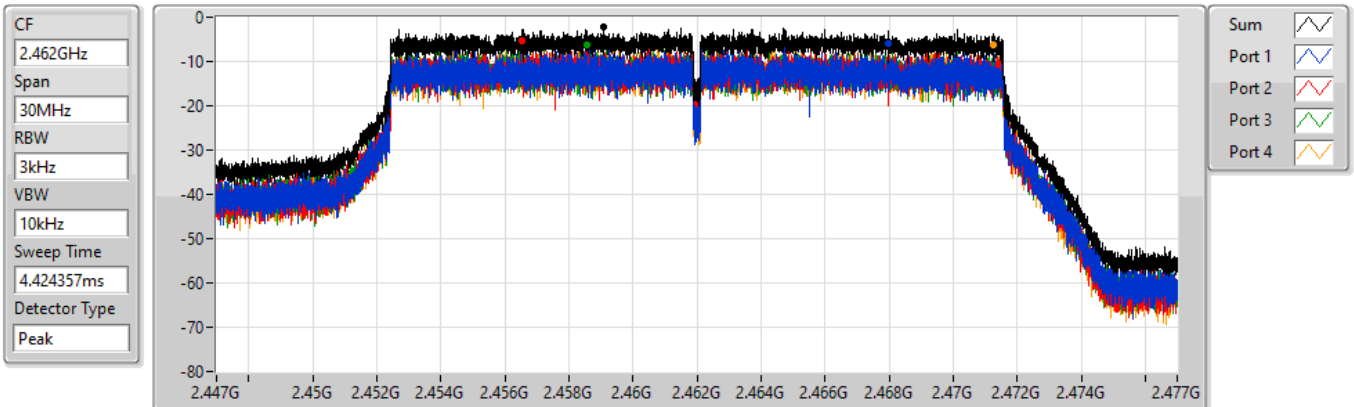


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2462MHz

28/09/2021



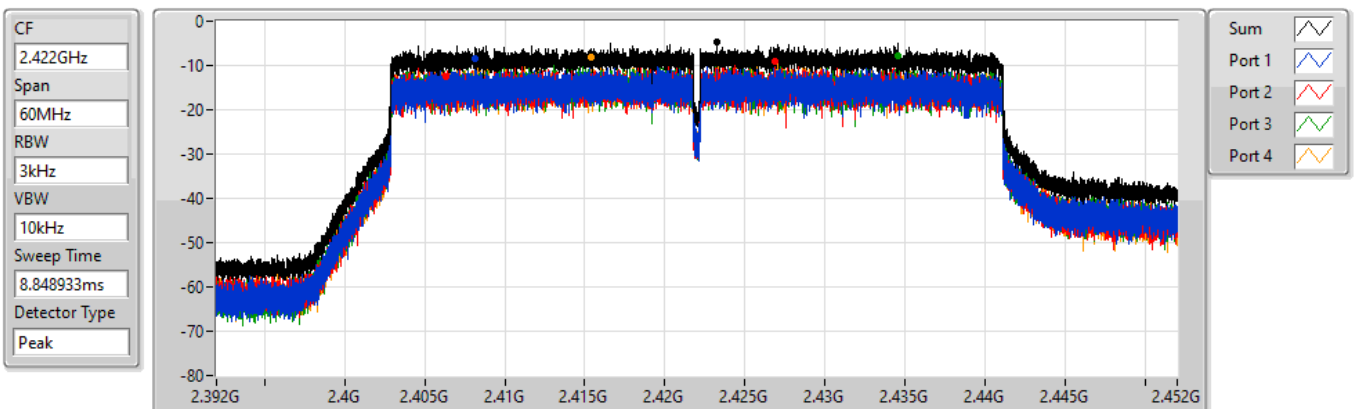
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.11	-2.11	-5.79	-5.35	-6.38	-6.17

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2422MHz

28/09/2021



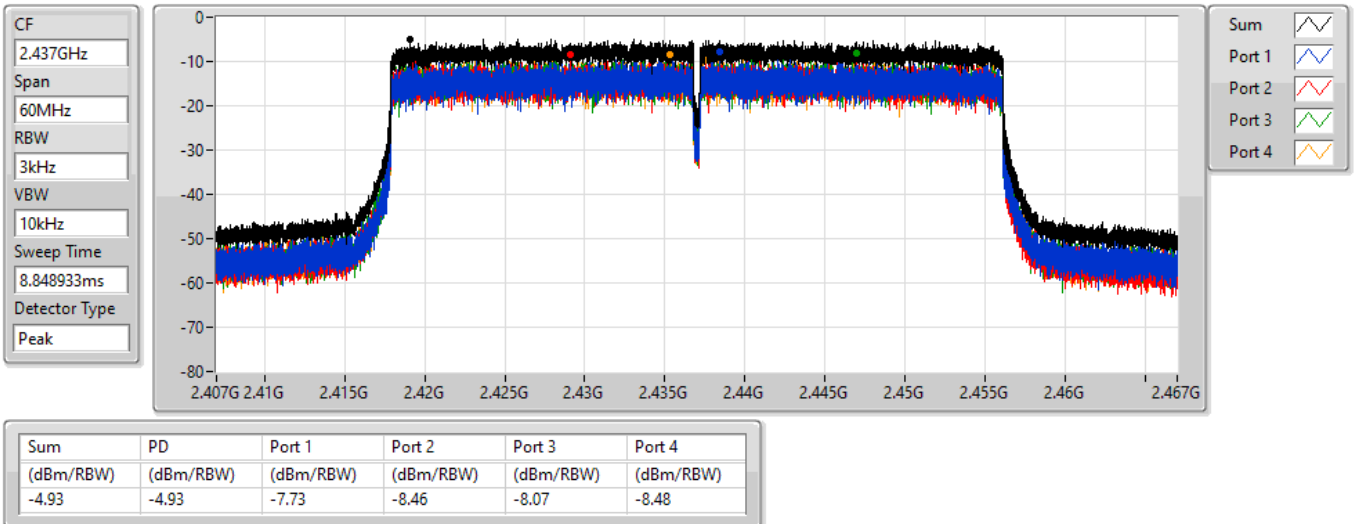
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.84	-4.84	-8.38	-9.13	-7.77	-8.05

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

28/09/2021

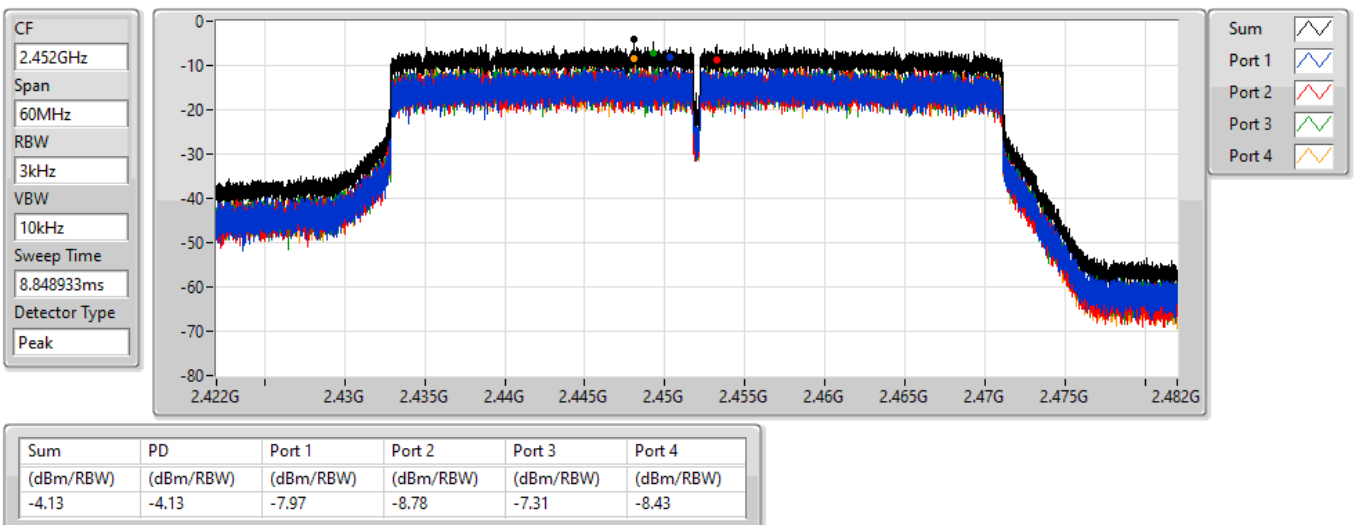


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2452MHz

28/09/2021





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	1.97

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)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
2437MHz	Pass	3.67	-3.18	-3.37	-3.18	-3.41	1.97	8.00

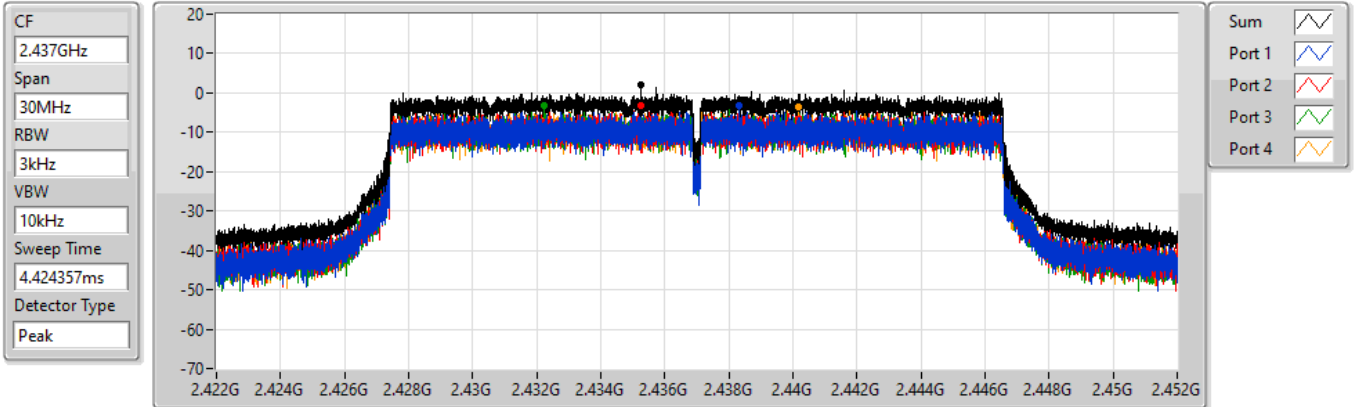
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

2437MHz

28/09/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.97	1.97	-3.18	-3.37	-3.18	-3.41

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)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	Pass	2.43653G	16.27	-13.73	2.30029G	-50.09	2.39798G	-39.23	2.4G	-42.69	2.48468G	-47.53	2.492695G	-44.74	4
802.11g_Nss1,(6Mbps)_4TX	Pass	2.442G	12.71	-17.29	2.30903G	-47.71	2.3998G	-28.39	2.4G	-29.63	2.51238G	-46.73	17.67547G	-44.53	1

Result

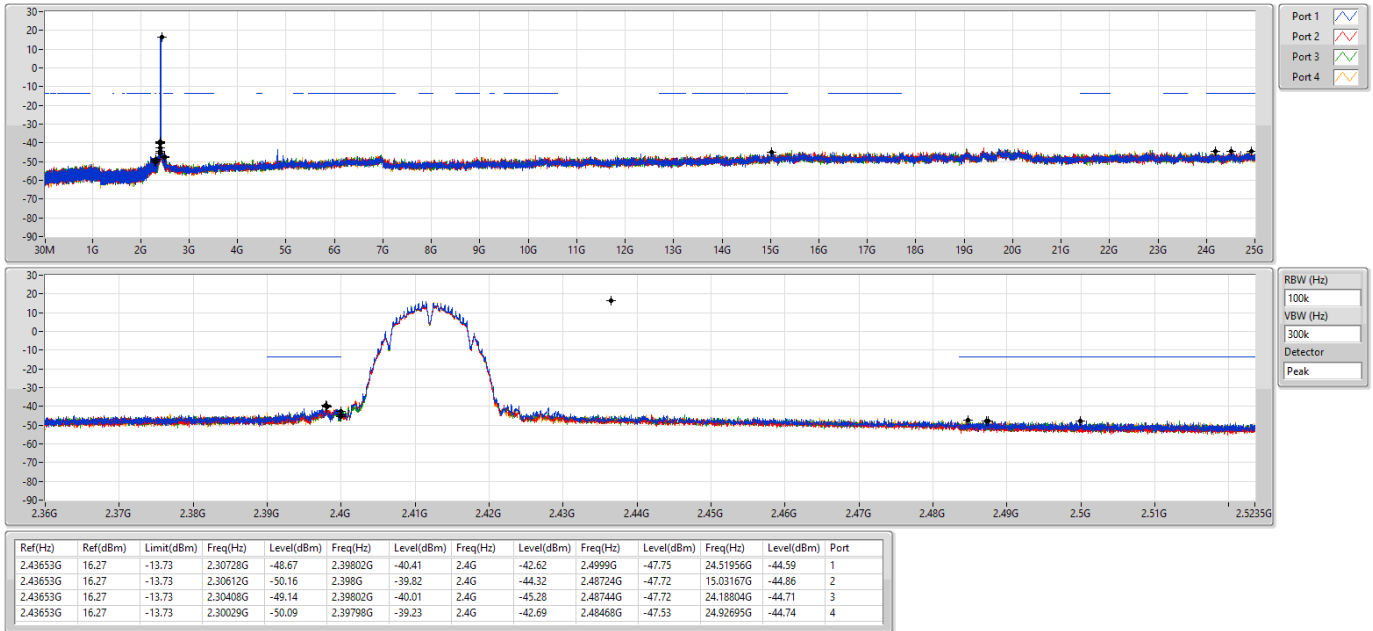
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43653G	16.27	-13.73	2.30728G	-48.67	2.39802G	-40.41	2.4G	-42.62	2.4999G	-47.75	24.51956G	-44.59	1
2412MHz	Pass	2.43653G	16.27	-13.73	2.30612G	-50.16	2.398G	-39.82	2.4G	-44.32	2.48724G	-47.72	15.03167G	-44.86	2
2412MHz	Pass	2.43653G	16.27	-13.73	2.30408G	-49.14	2.39802G	-40.01	2.4G	-45.28	2.48744G	-47.72	24.18804G	-44.71	3
2412MHz	Pass	2.43653G	16.27	-13.73	2.30029G	-50.09	2.39798G	-39.23	2.4G	-42.69	2.48468G	-47.53	24.92695G	-44.74	4
2437MHz	Pass	2.43653G	16.27	-13.73	2.30554G	-49.04	2.39744G	-45.43	2.4G	-47.42	2.48856G	-46.71	15.26768G	-43.87	1
2437MHz	Pass	2.43653G	16.27	-13.73	2.30583G	-49.84	2.39782G	-45.76	2.4G	-47.49	2.48514G	-46.34	16.26788G	-44.63	2
2437MHz	Pass	2.43653G	16.27	-13.73	2.30379G	-49.57	2.39064G	-45.09	2.4G	-46.16	2.48456G	-47.10	15.29577G	-44.37	3
2437MHz	Pass	2.43653G	16.27	-13.73	2.30029G	-49.84	2.39132G	-45.50	2.4G	-46.72	2.48852G	-45.98	23.54746G	-43.82	4
2462MHz	Pass	2.43653G	16.27	-13.73	2.30525G	-49.62	2.39162G	-46.44	2.4835G	-46.47	2.49184G	-44.15	23.12883G	-44.83	1
2462MHz	Pass	2.43653G	16.27	-13.73	2.30728G	-50.06	2.39826G	-47.26	2.4835G	-47.33	2.48588G	-45.90	24.84266G	-44.13	2
2462MHz	Pass	2.43653G	16.27	-13.73	2.19836G	-50.96	2.3901G	-46.52	2.4835G	-48.41	2.48796G	-45.07	24.8539G	-43.63	3
2462MHz	Pass	2.43653G	16.27	-13.73	2.30932G	-49.29	2.3935G	-46.77	2.4835G	-47.14	2.48584G	-45.11	24.74433G	-44.27	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	12.71	-17.29	2.30903G	-47.71	2.3998G	-28.39	2.4G	-29.63	2.51238G	-46.73	17.67547G	-44.53	1
2412MHz	Pass	2.442G	12.71	-17.29	2.18875G	-49.93	2.39762G	-30.25	2.4G	-30.08	2.4915G	-47.16	17.1248G	-44.60	2
2412MHz	Pass	2.442G	12.71	-17.29	2.30816G	-48.01	2.39982G	-29.68	2.4G	-30.45	2.48754G	-46.64	24.882G	-44.53	3
2412MHz	Pass	2.442G	12.71	-17.29	2.3067G	-49.23	2.39994G	-29.57	2.4G	-31.98	2.49838G	-48.13	15.26487G	-44.86	4
2437MHz	Pass	2.442G	12.71	-17.29	2.30175G	-49.24	2.39294G	-43.58	2.4G	-46.89	2.4895G	-46.01	17.12761G	-44.36	1
2437MHz	Pass	2.442G	12.71	-17.29	2.16399G	-49.44	2.39828G	-43.33	2.4G	-46.80	2.48396G	-46.08	17.68109G	-44.42	2
2437MHz	Pass	2.442G	12.71	-17.29	2.19807G	-49.24	2.39888G	-44.05	2.4G	-47.22	2.48648G	-46.63	24.83424G	-43.66	3
2437MHz	Pass	2.442G	12.71	-17.29	2.30787G	-48.72	2.39798G	-43.02	2.4G	-46.43	2.48418G	-45.72	24.83424G	-44.39	4
2462MHz	Pass	2.442G	12.71	-17.29	2.30146G	-48.80	2.39474G	-45.98	2.4835G	-43.00	2.48352G	-39.61	24.69095G	-43.46	1
2462MHz	Pass	2.442G	12.71	-17.29	2.30612G	-50.28	2.39384G	-46.07	2.4835G	-42.91	2.4841G	-41.51	24.50552G	-44.27	2
2462MHz	Pass	2.442G	12.71	-17.29	2.30146G	-49.33	2.39298G	-46.94	2.4835G	-41.59	2.48358G	-40.84	24.7949G	-43.87	3
2462MHz	Pass	2.442G	12.71	-17.29	2.30029G	-49.86	2.39042G	-46.56	2.4835G	-43.35	2.48362G	-41.20	15.28172G	-44.16	4

802.11b_Nss1,(1Mbps)_4TX

2412MHz

CSENdB

28/09/2021

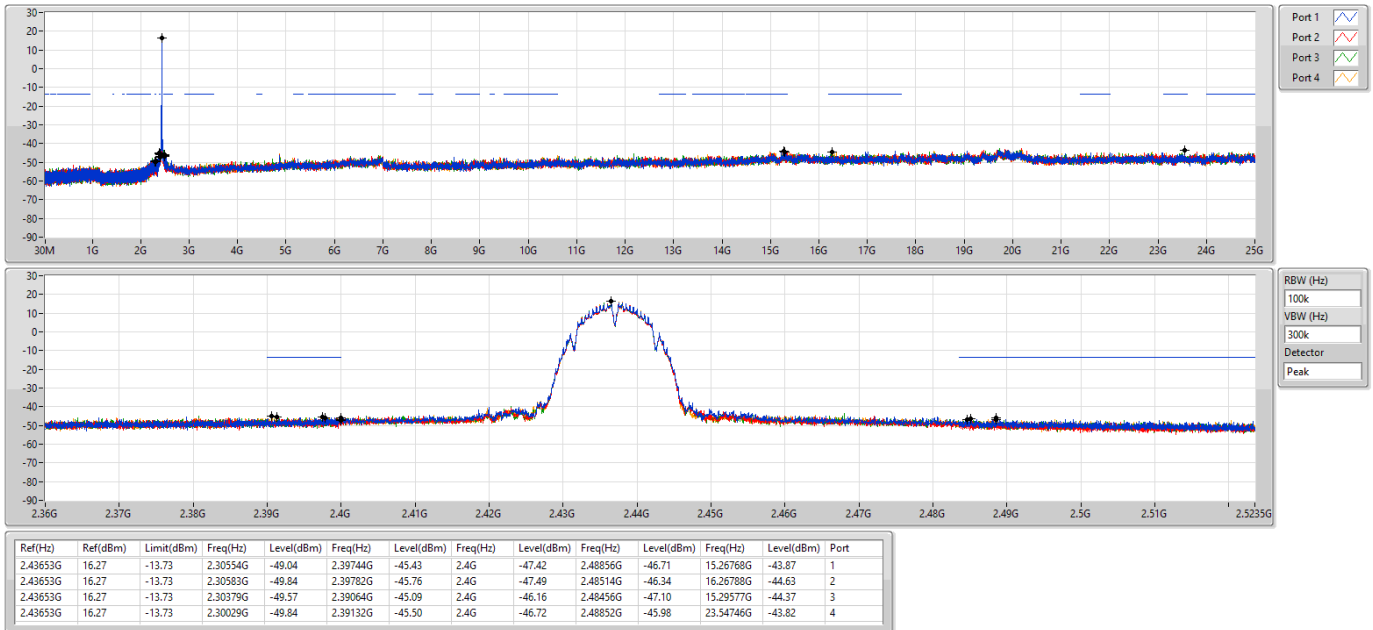


802.11b_Nss1,(1Mbps)_4TX

2437MHz

CSENdB

28/09/2021

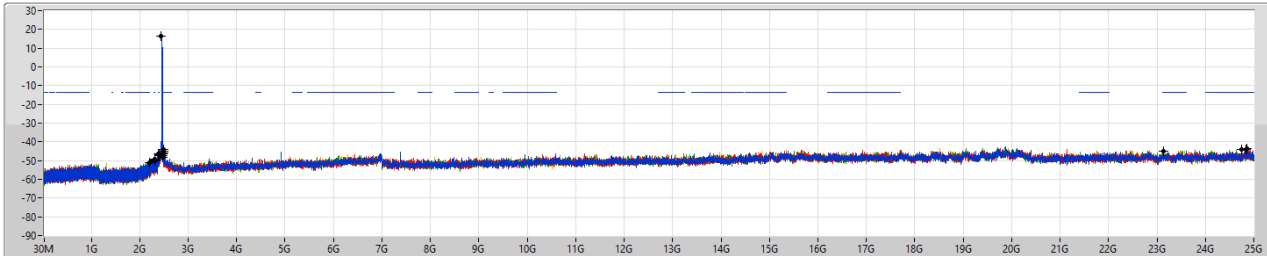


802.11b_Nss1,(1Mbps)_4TX

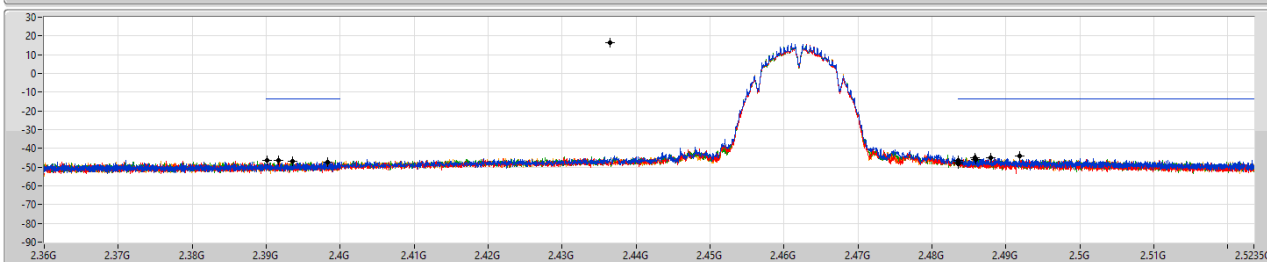
2462MHz

CSENdB

28/09/2021



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

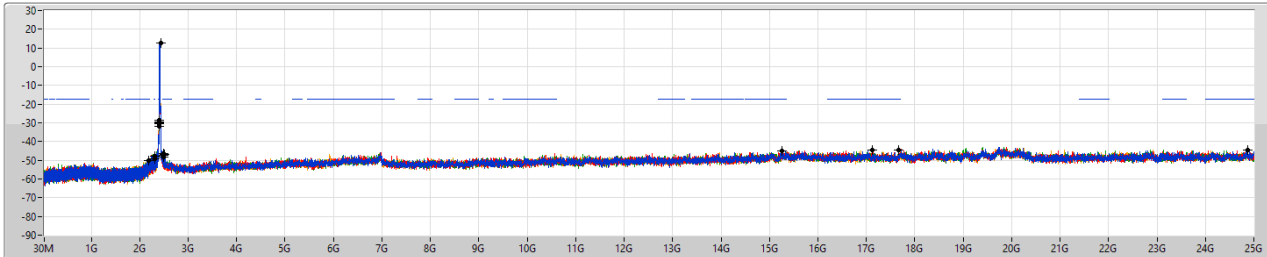
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43653G	16.27	-13.73	2.30525G	-49.62	2.39162G	-46.44	2.4835G	-46.47	2.49184G	-44.15	23.12883G	-44.83	1
2.43653G	16.27	-13.73	2.30728G	-50.06	2.39826G	-47.26	2.4835G	-47.33	2.48588G	-45.90	24.84266G	-44.13	2
2.43653G	16.27	-13.73	2.19836G	-50.96	2.3901G	-46.52	2.4835G	-48.41	2.48796G	-45.07	24.8539G	-43.63	3
2.43653G	16.27	-13.73	2.30932G	-49.29	2.3935G	-46.77	2.4835G	-47.14	2.48584G	-45.11	24.74433G	-44.27	4

802.11g_Nss1,(6Mbps)_4TX

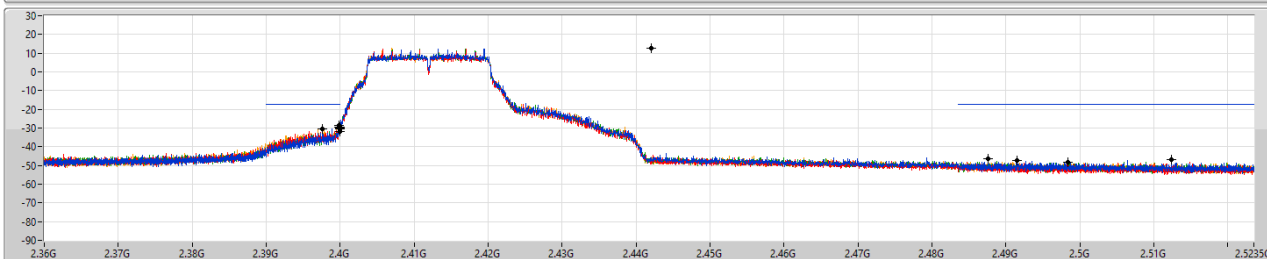
2412MHz

CSENdB

28/09/2021



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

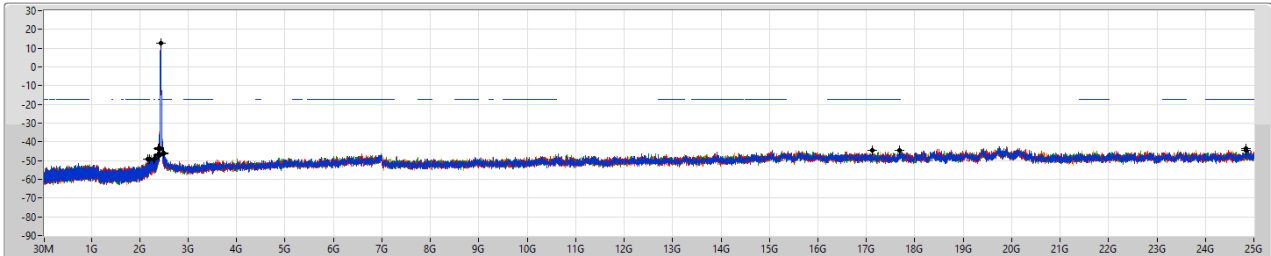
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.71	-17.29	2.30903G	-47.71	2.3998G	-28.39	2.4G	-29.63	2.51238G	-46.73	17.67547G	-44.53	1
2.442G	12.71	-17.29	2.18875G	-49.93	2.39762G	-30.25	2.4G	-30.08	2.4915G	-47.16	17.1248G	-44.60	2
2.442G	12.71	-17.29	2.30816G	-48.01	2.39982G	-29.68	2.4G	-30.45	2.48754G	-46.64	24.882G	-44.53	3
2.442G	12.71	-17.29	2.3067G	-49.23	2.39994G	-29.57	2.4G	-31.98	2.48638G	-48.13	15.26487G	-44.86	4

802.11g_Nss1,(6Mbps)_4TX

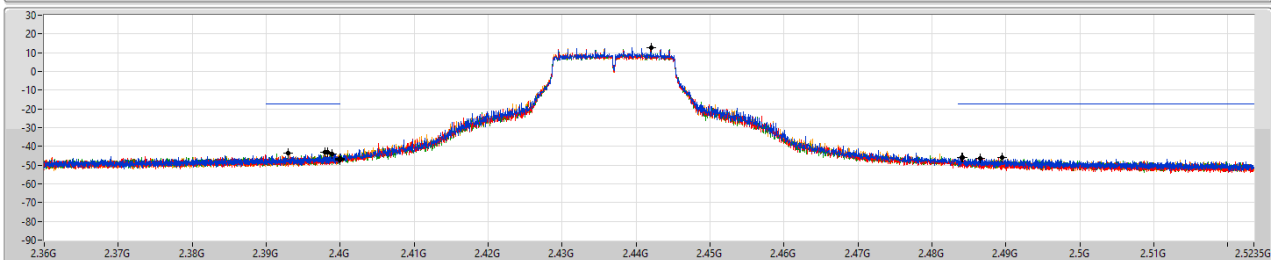
2437MHz

CSENdB

28/09/2021



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

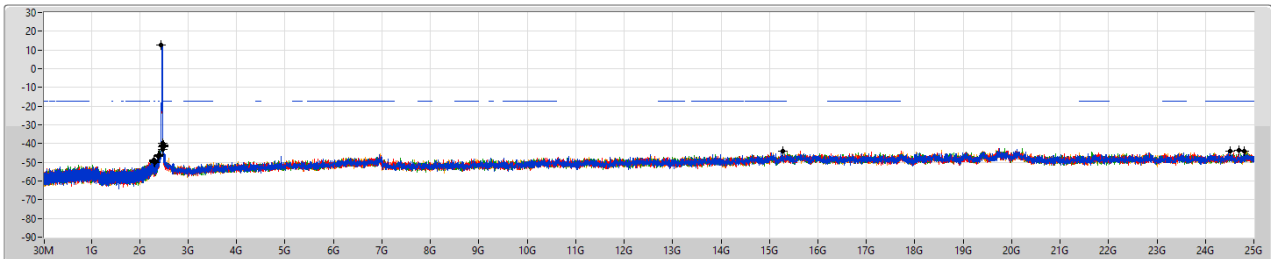
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.71	-17.29	2.30175G	-49.24	2.39294G	-43.58	2.4G	-46.89	2.4895G	-46.01	1
2.442G	12.71	-17.29	2.16399G	-49.44	2.39828G	-43.33	2.4G	-46.80	2.48396G	-46.08	2
2.442G	12.71	-17.29	2.19807G	-49.24	2.39888G	-44.05	2.4G	-47.22	2.48648G	-46.63	3
2.442G	12.71	-17.29	2.30787G	-48.72	2.39798G	-43.02	2.4G	-46.43	2.48418G	-45.72	4

802.11g_Nss1,(6Mbps)_4TX

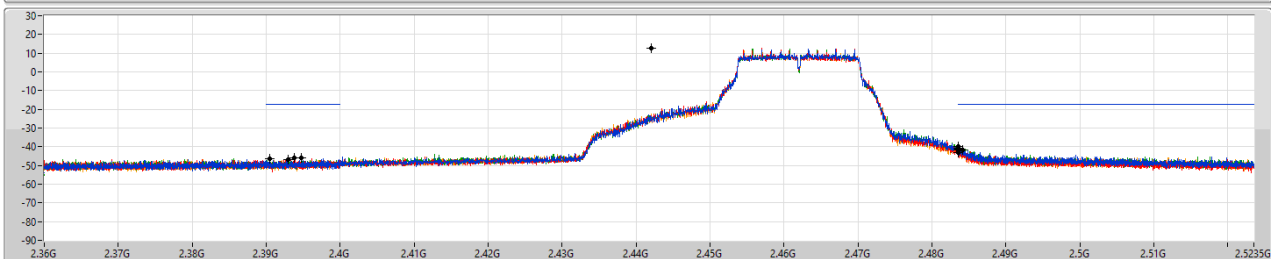
2462MHz

CSENdB

28/09/2021



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.71	-17.29	2.30146G	-48.80	2.39474G	-45.98	2.4835G	-43.00	2.48352G	-39.61	1
2.442G	12.71	-17.29	2.30612G	-50.28	2.39384G	-46.07	2.4835G	-42.91	2.4841G	-41.51	2
2.442G	12.71	-17.29	2.30146G	-49.33	2.39286G	-46.94	2.4835G	-41.59	2.48358G	-40.84	3
2.442G	12.71	-17.29	2.30029G	-49.86	2.39042G	-46.56	2.4835G	-43.35	2.48362G	-41.20	4



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)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	Pass	2.442G	11.28	-18.72	2.30379G	-50.96	2.4G	-31.18	2.4G	-32.38	2.48504G	-48.33	17.16132G	-44.65	1
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	2.422G	6.52	-23.48	2.30626G	-48.53	2.4G	-27.36	2.4G	-29.01	2.48514G	-46.79	24.88782G	-44.40	1

Result

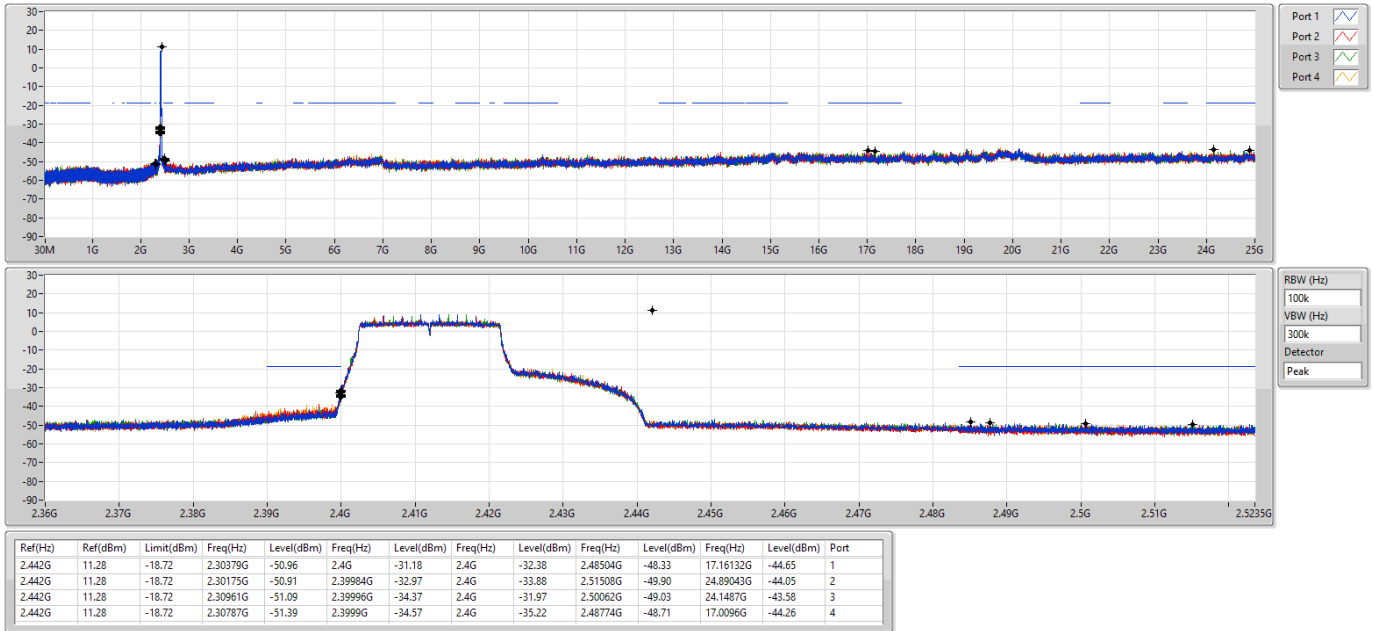
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	11.28	-18.72	2.30379G	-50.96	2.4G	-31.18	2.4G	-32.38	2.48504G	-48.33	17.16132G	-44.65	1
2412MHz	Pass	2.442G	11.28	-18.72	2.30175G	-50.91	2.39984G	-32.97	2.4G	-33.88	2.51508G	-49.90	24.89043G	-44.05	2
2412MHz	Pass	2.442G	11.28	-18.72	2.30961G	-51.09	2.39996G	-34.37	2.4G	-31.97	2.50062G	-49.03	24.1487G	-43.58	3
2412MHz	Pass	2.442G	11.28	-18.72	2.30787G	-51.39	2.3999G	-34.57	2.4G	-35.22	2.48774G	-48.71	17.0096G	-44.26	4
2437MHz	Pass	2.442G	11.28	-18.72	2.30932G	-48.75	2.39882G	-45.13	2.4G	-46.64	2.48474G	-46.05	24.86514G	-44.44	1
2437MHz	Pass	2.442G	11.28	-18.72	2.30262G	-49.83	2.39584G	-43.78	2.4G	-44.91	2.48732G	-47.09	24.80333G	-43.56	2
2437MHz	Pass	2.442G	11.28	-18.72	2.30321G	-49.89	2.3985G	-45.27	2.4G	-48.06	2.48376G	-46.63	24.52237G	-44.80	3
2437MHz	Pass	2.442G	11.28	-18.72	2.30292G	-50.49	2.39994G	-43.70	2.4G	-46.85	2.4837G	-46.17	15.24801G	-44.53	4
2462MHz	Pass	2.442G	11.28	-18.72	2.30321G	-51.47	2.39466G	-48.00	2.4835G	-45.04	2.48418G	-43.41	23.40979G	-44.44	1
2462MHz	Pass	2.442G	11.28	-18.72	2.30758G	-50.92	2.39674G	-47.46	2.4835G	-46.36	2.48382G	-43.76	24.80614G	-45.03	2
2462MHz	Pass	2.442G	11.28	-18.72	2.30379G	-51.22	2.3911G	-48.32	2.4835G	-45.21	2.48394G	-43.33	15.05134G	-44.87	3
2462MHz	Pass	2.442G	11.28	-18.72	2.17739G	-51.66	2.39992G	-48.12	2.4835G	-46.66	2.48424G	-45.62	24.48585G	-45.43	4
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.422G	6.52	-23.48	2.30626G	-48.53	2.4G	-27.36	2.4G	-29.01	2.48514G	-46.79	24.88782G	-44.40	1
2422MHz	Pass	2.422G	6.52	-23.48	2.30741G	-48.61	2.39996G	-28.73	2.4G	-29.75	2.48918G	-47.55	24.2624G	-44.28	2
2422MHz	Pass	2.422G	6.52	-23.48	2.30168G	-49.24	2.39972G	-29.69	2.4G	-29.71	2.4917G	-46.07	15.05502G	-44.39	3
2422MHz	Pass	2.422G	6.52	-23.48	2.30626G	-49.96	2.39992G	-30.14	2.4G	-29.82	2.48598G	-47.17	16.26659G	-44.20	4
2437MHz	Pass	2.422G	6.52	-23.48	2.19291G	-49.71	2.39952G	-31.85	2.4G	-37.73	2.48534G	-40.86	17.67729G	-44.79	1
2437MHz	Pass	2.422G	6.52	-23.48	2.30054G	-50.41	2.39956G	-32.88	2.4G	-38.03	2.48406G	-42.98	24.92708G	-44.28	2
2437MHz	Pass	2.422G	6.52	-23.48	2.30111G	-49.84	2.39952G	-33.27	2.4G	-40.79	2.48406G	-42.12	16.8275G	-44.43	3
2437MHz	Pass	2.422G	6.52	-23.48	2.30569G	-50.13	2.39948G	-32.44	2.4G	-39.55	2.48402G	-41.60	24.46994G	-44.65	4
2452MHz	Pass	2.422G	6.52	-23.48	2.3054G	-50.34	2.397G	-34.07	2.4G	-35.99	2.4839G	-41.95	24.83173G	-43.96	1
2452MHz	Pass	2.422G	6.52	-23.48	2.30741G	-50.27	2.39984G	-36.09	2.4G	-36.90	2.4855G	-43.80	17.67448G	-44.66	2
2452MHz	Pass	2.422G	6.52	-23.48	2.30712G	-49.18	2.39948G	-33.20	2.4G	-37.59	2.48822G	-41.89	17.69411G	-44.30	3
2452MHz	Pass	2.422G	6.52	-23.48	2.30826G	-50.47	2.39704G	-35.88	2.4G	-37.70	2.4873G	-43.59	15.03258G	-43.17	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz

CSENdB

28/09/2021

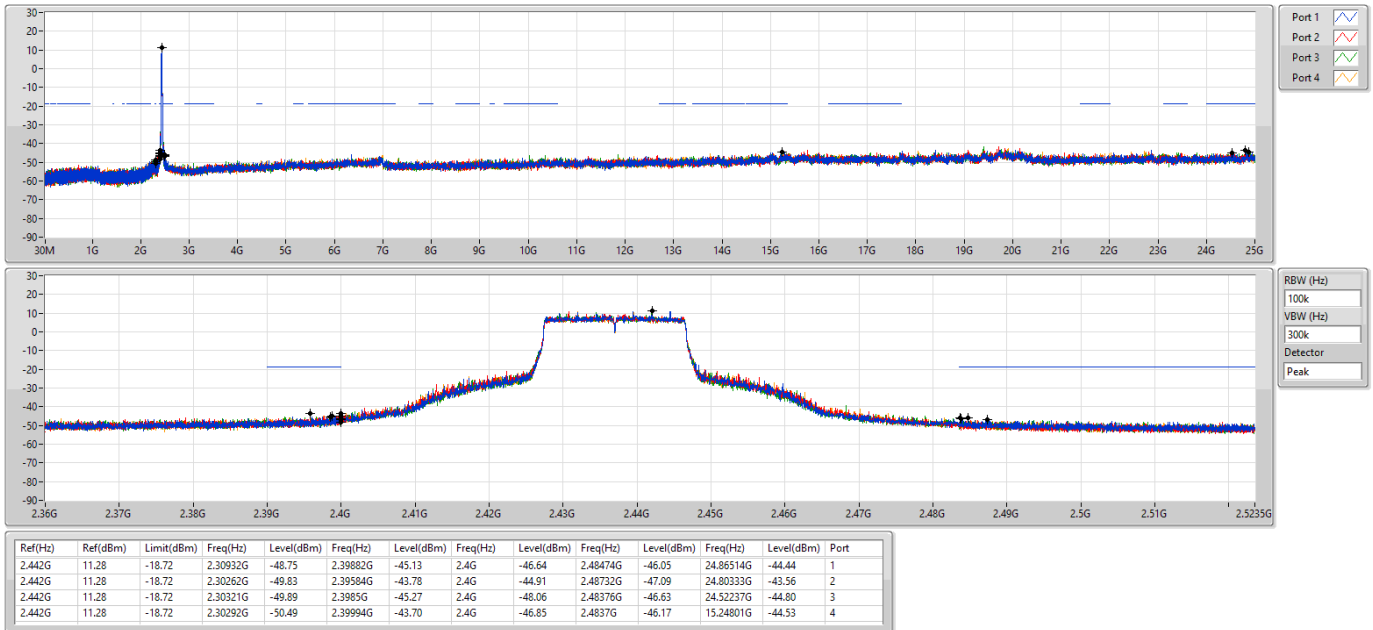


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz

CSENdB

28/09/2021

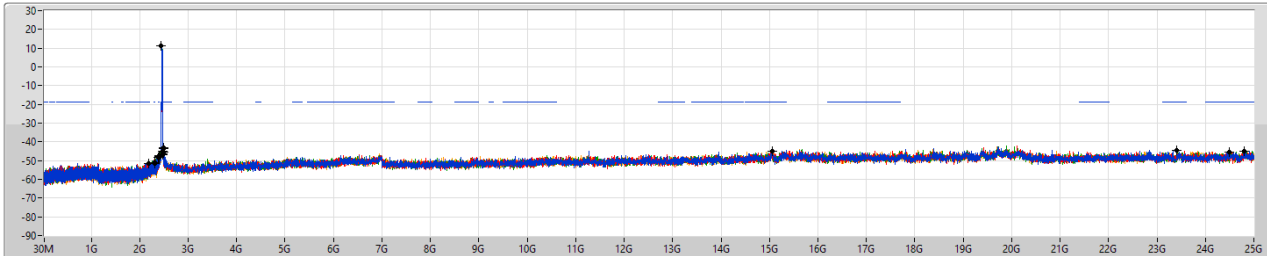


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

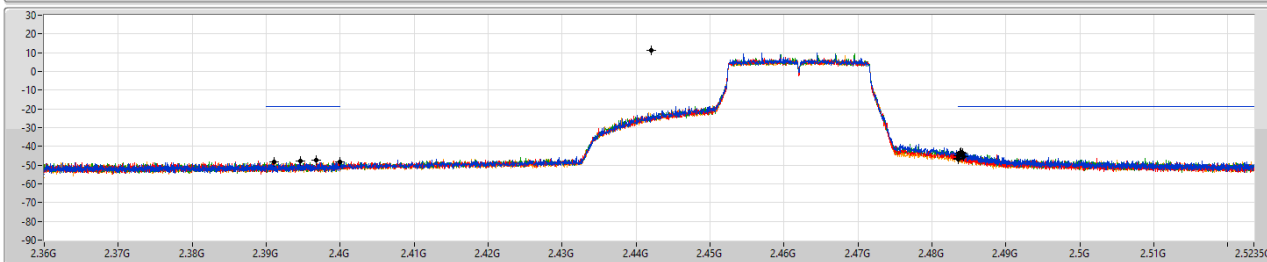
CSENdB

2462MHz

28/09/2021



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

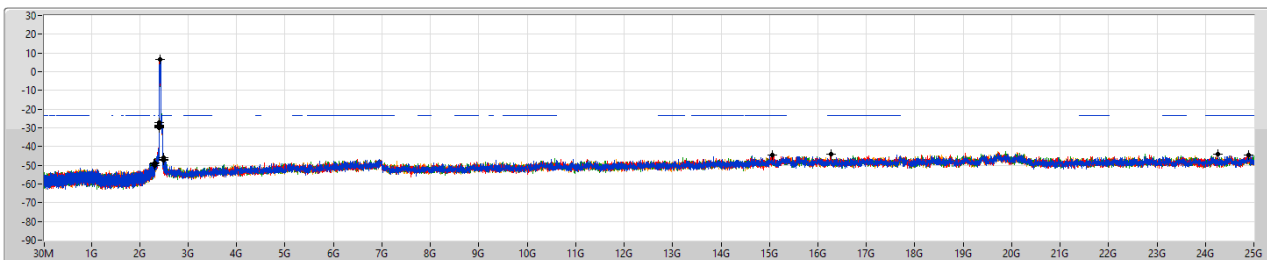
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	11.28	-18.72	2.30321G	-51.47	2.39466G	-48.00	2.4835G	-45.04	2.48418G	-43.41	23.40979G	-44.44	1
2.442G	11.28	-18.72	2.30758G	-50.92	2.39674G	-47.46	2.4835G	-46.36	2.48382G	-43.76	24.80614G	-45.03	2
2.442G	11.28	-18.72	2.30379G	-51.22	2.39111G	-48.32	2.4835G	-45.21	2.48394G	-43.33	15.05134G	-44.87	3
2.442G	11.28	-18.72	2.17739G	-51.66	2.39992G	-48.12	2.4835G	-46.66	2.48424G	-45.62	24.8585G	-45.43	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

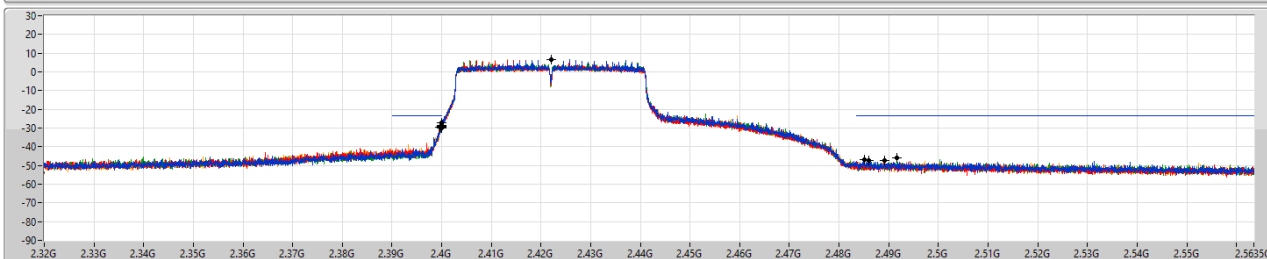
CSENdB

2422MHz

28/09/2021



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

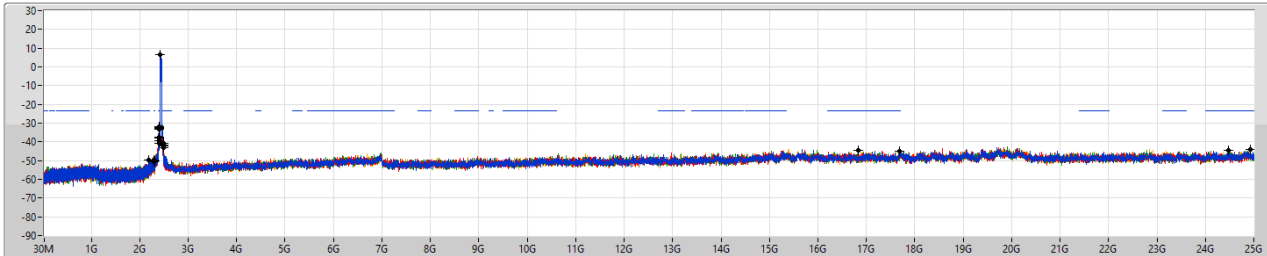
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.422G	6.52	-23.48	2.30626G	-48.53	2.4G	-27.36	2.4G	-29.01	2.48514G	-46.79	24.89782G	-44.40	1
2.422G	6.52	-23.48	2.30741G	-48.61	2.39996G	-28.73	2.4G	-28.75	2.48918G	-47.55	24.2624G	-44.28	2
2.422G	6.52	-23.48	2.30168G	-49.24	2.39972G	-29.69	2.4G	-29.71	2.4917G	-46.07	15.05902G	-44.39	3
2.422G	6.52	-23.48	2.30626G	-49.96	2.39992G	-30.14	2.4G	-29.82	2.48598G	-47.17	16.26659G	-44.20	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

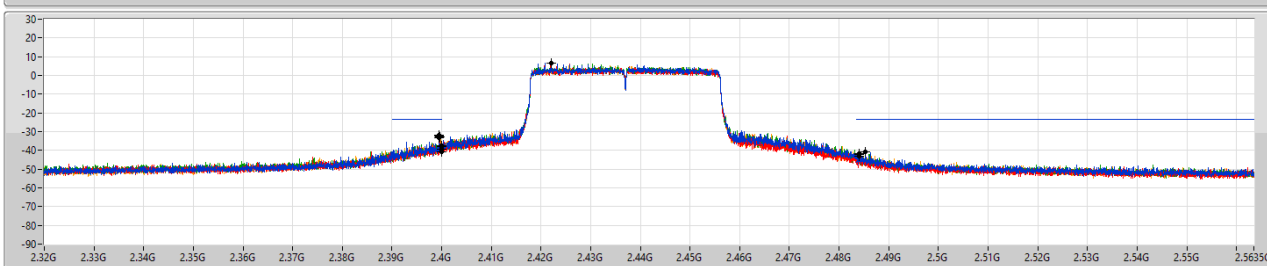
CSENdB

2437MHz

28/09/2021



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

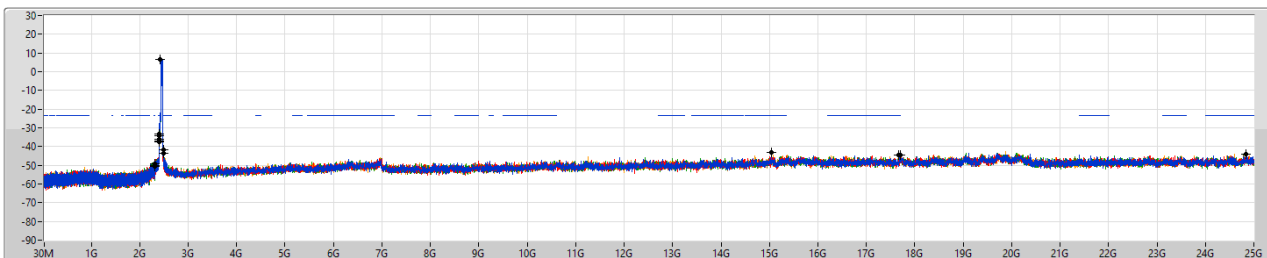
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.422G	6.52	-23.48	2.19291G	-49.71	2.39952G	-31.85	2.4G	-37.73	2.48534G	-40.86	17.67729G	-44.79	1
2.422G	6.52	-23.48	2.30054G	-50.41	2.39956G	-32.88	2.4G	-38.03	2.48406G	-42.98	24.92708G	-44.28	2
2.422G	6.52	-23.48	2.30111G	-49.84	2.39952G	-33.27	2.4G	-40.79	2.48406G	-42.12	16.8275G	-44.43	3
2.422G	6.52	-23.48	2.30569G	-50.13	2.39948G	-32.44	2.4G	-39.55	2.48402G	-41.60	24.46994G	-44.65	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

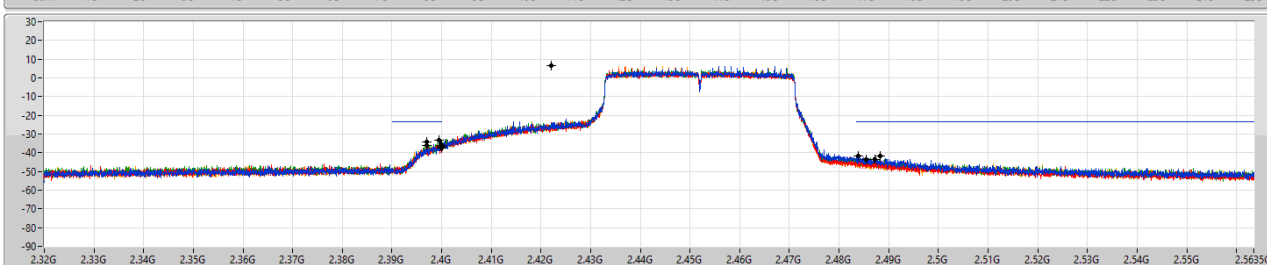
CSENdB

2452MHz

28/09/2021



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.422G	6.52	-23.48	2.3054G	-50.34	2.397G	-34.07	2.4G	-35.99	2.4839G	-41.95	24.83177G	-43.96	1
2.422G	6.52	-23.48	2.30741G	-50.27	2.39884G	-36.09	2.4G	-36.90	2.4855G	-43.80	17.67488G	-44.66	2
2.422G	6.52	-23.48	2.30712G	-49.18	2.39848G	-33.20	2.4G	-37.59	2.48822G	-41.89	17.69411G	-44.30	3
2.422G	6.52	-23.48	2.30826G	-50.47	2.39704G	-35.88	2.4G	-37.70	2.4873G	-43.59	15.03258G	-43.17	4



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)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	Pass	2.442G	12.22	-17.78	2.30437G	-49.26	2.3972G	-42.36	2.4G	-46.49	2.48358G	-46.34	24.80052G	-44.71	4

Result

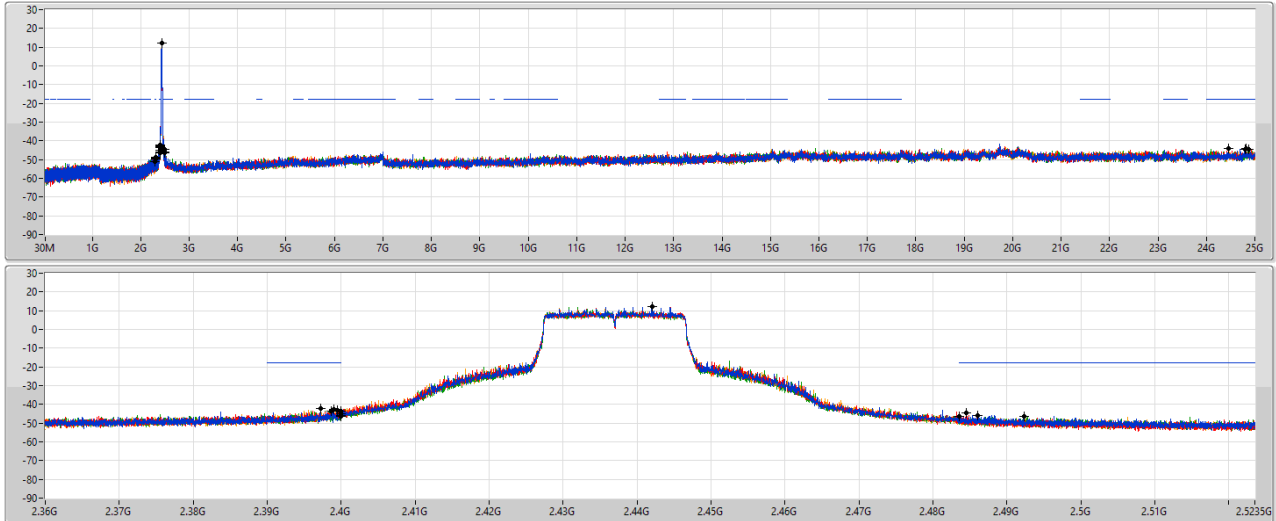
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	2.442G	12.22	-17.78	2.30612G	-48.87	2.3987G	-43.70	2.4G	-46.08	2.4845G	-44.37	24.87357G	-44.37	1
2437MHz	Pass	2.442G	12.22	-17.78	2.30175G	-50.93	2.39944G	-43.25	2.4G	-43.82	2.48602G	-46.10	24.44933G	-43.90	2
2437MHz	Pass	2.442G	12.22	-17.78	2.30699G	-49.78	2.39904G	-42.82	2.4G	-44.81	2.49236G	-46.62	24.81457G	-43.84	3
2437MHz	Pass	2.442G	12.22	-17.78	2.30437G	-49.26	2.3972G	-42.36	2.4G	-46.49	2.48358G	-46.34	24.80052G	-44.71	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

CSENdB

2437MHz

28/09/2021



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.22	-17.78	2.30612G	-48.87	2.3987G	-43.70	2.4G	-46.08	2.4845G	-44.37	24.87357G	-44.37	1
2.442G	12.22	-17.78	2.30175G	-50.93	2.39944G	-43.25	2.4G	-43.82	2.48602G	-46.10	24.44933G	-43.90	2
2.442G	12.22	-17.78	2.30699G	-49.78	2.39904G	-42.82	2.4G	-44.81	2.49236G	-46.62	24.81457G	-43.84	3
2.442G	12.22	-17.78	2.30437G	-49.26	2.3972G	-42.36	2.4G	-46.49	2.48358G	-46.34	24.80052G	-44.71	4



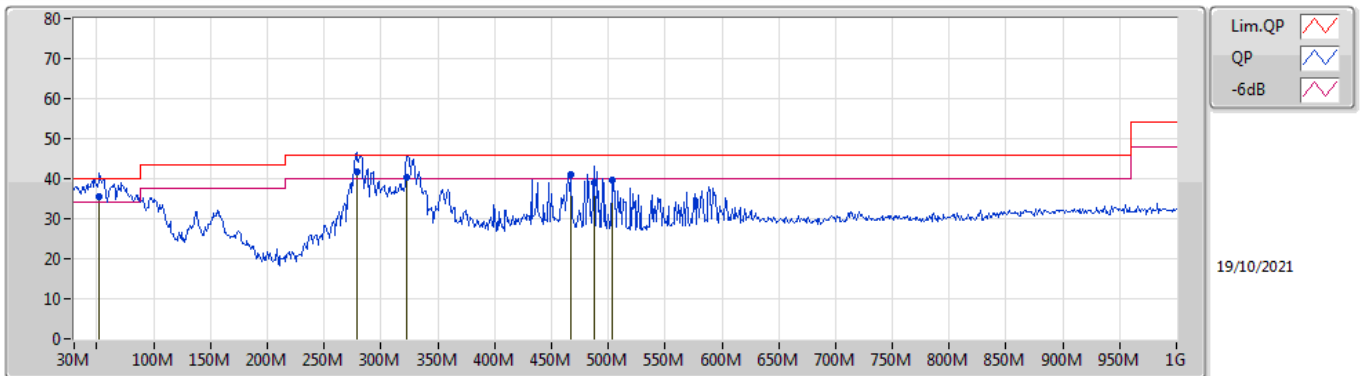
Radiated Emissions below 1GHz

Appendix F.1

Summary

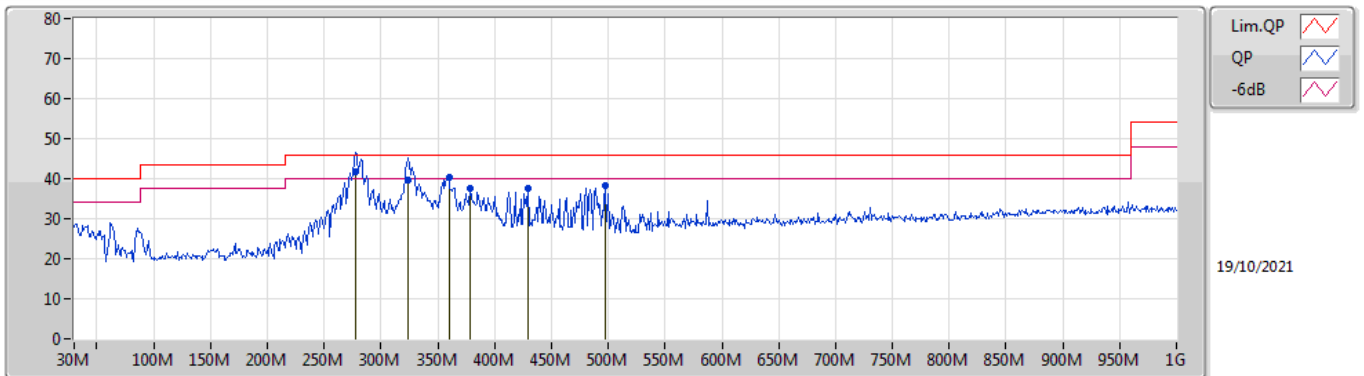
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	278.32M	41.84	46.00	-4.16	Vertical

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	52.31M	35.62	40.00	-4.38	-17.48	3	Vertical	358	1.50	"Worst"	53.10	13.25	1.05	31.78
PK	467.47M	41.13	46.00	-4.87	-5.95	3	Vertical	166	1.25	-	47.08	22.98	3.37	32.30
QP	487.84M	39.10	46.00	-6.90	-5.71	3	Vertical	151	1.00	-	44.81	23.16	3.45	32.32
QP	278.32M	41.84	46.00	-4.16	-10.86	3	Vertical	198	1.50	-	52.70	18.62	2.57	32.05
PK	503.36M	39.76	46.00	-6.24	-5.66	3	Vertical	249	1.00	-	45.42	23.17	3.51	32.34
QP	322.94M	40.50	46.00	-5.50	-9.80	3	Vertical	215	1.50	-	50.30	19.50	2.79	32.09

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	277.35M	41.61	46.00	-4.39	-10.89	3	Horizontal	119	1.00	"Worst"	52.50	18.60	2.56	32.05
QP	323.91M	39.53	46.00	-6.47	-9.77	3	Horizontal	357	1.25	-	49.30	19.52	2.80	32.09
PK	359.8M	40.25	46.00	-5.75	-8.54	3	Horizontal	171	1.00	-	48.79	20.65	2.94	32.13
PK	378.23M	37.50	46.00	-8.50	-8.32	3	Horizontal	232	1.00	-	45.82	20.83	3.01	32.16
PK	429.64M	37.65	46.00	-8.35	-6.56	3	Horizontal	128	2.00	-	44.21	22.46	3.22	32.24
PK	497.54M	38.13	46.00	-7.87	-5.66	3	Horizontal	276	2.00	-	43.79	23.18	3.49	32.33

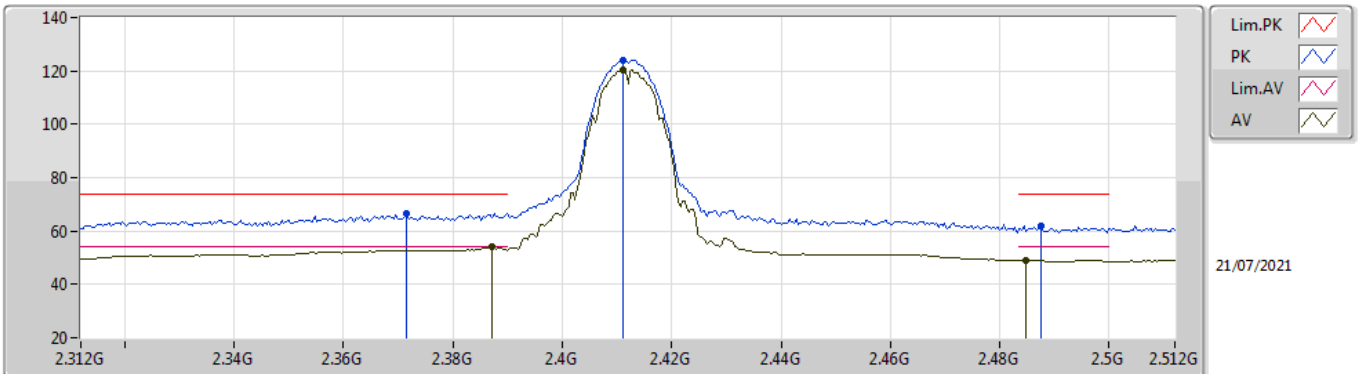


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1.(1Mbps)_4TX	Pass	AV	2.3872G	53.98	54.00	-0.02	3	Vertical	2	1.84	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

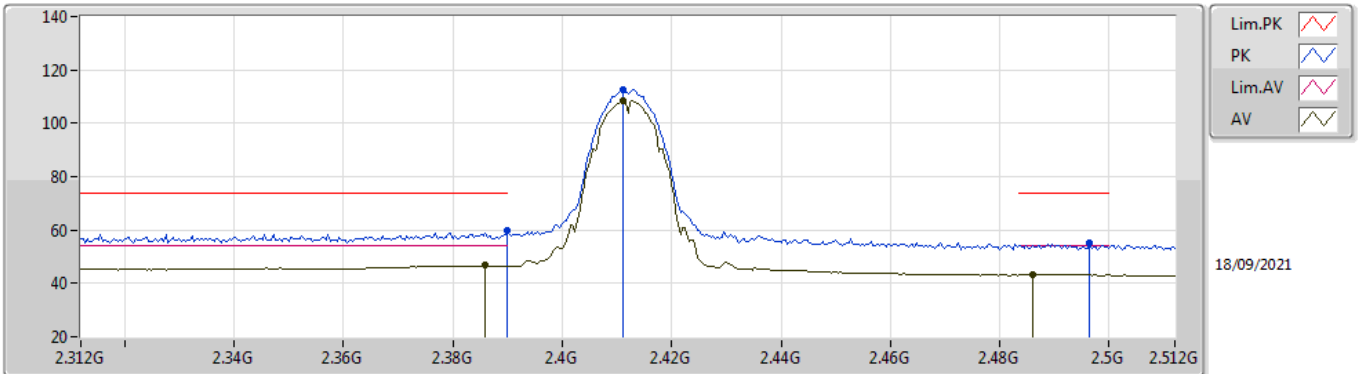


EUT_Y_4TX
Setting 100
02-B-N-2
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3716G	66.60	74.00	-7.40	35.85	3	Vertical	2	1.84	-	28.34	2.41	-
AV	2.3872G	53.98	54.00	-0.02	23.20	3	Vertical	2	1.84	-	28.37	2.41	-
PK	2.4112G	124.21	Inf	-Inf	93.40	3	Vertical	2	1.84	-	28.40	2.41	-
AV	2.4112G	120.52	Inf	-Inf	89.71	3	Vertical	2	1.84	-	28.40	2.41	-
PK	2.4876G	61.70	74.00	-12.30	30.71	3	Vertical	2	1.84	-	28.55	2.44	-
AV	2.4848G	48.98	54.00	-5.02	18.00	3	Vertical	2	1.84	-	28.54	2.44	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

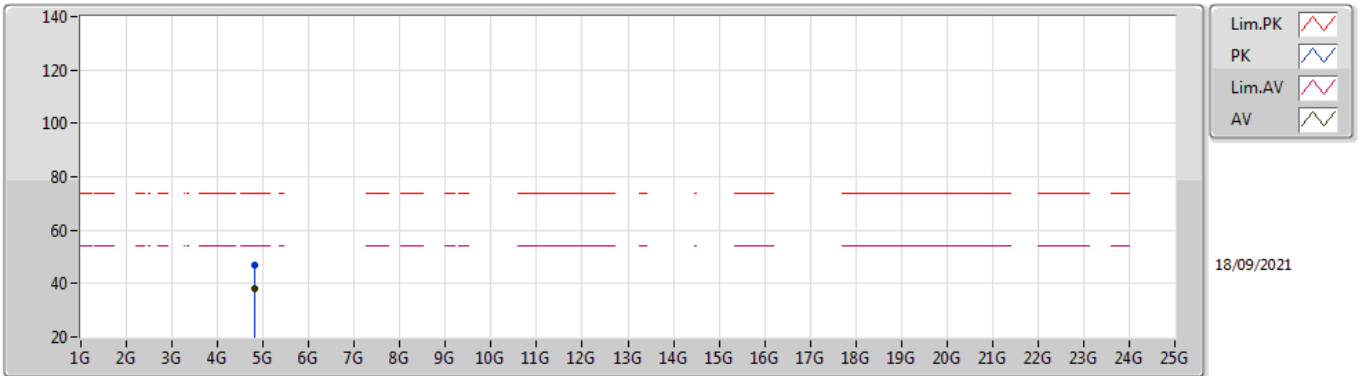


EUT_Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	59.72	74.00	-14.28	29.16	3	Horizontal	184	1.80	-	27.48	3.08	-
AV	2.386G	46.78	54.00	-7.22	16.20	3	Horizontal	184	1.80	-	27.51	3.07	-
PK	2.4112G	112.37	Inf	-Inf	81.90	3	Horizontal	184	1.80	-	27.36	3.11	-
AV	2.4112G	108.52	Inf	-Inf	78.05	3	Horizontal	184	1.80	-	27.36	3.11	-
PK	2.4964G	55.11	74.00	-18.89	24.62	3	Horizontal	184	1.80	-	27.29	3.20	-
AV	2.486G	43.20	54.00	-10.80	12.74	3	Horizontal	184	1.80	-	27.27	3.19	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

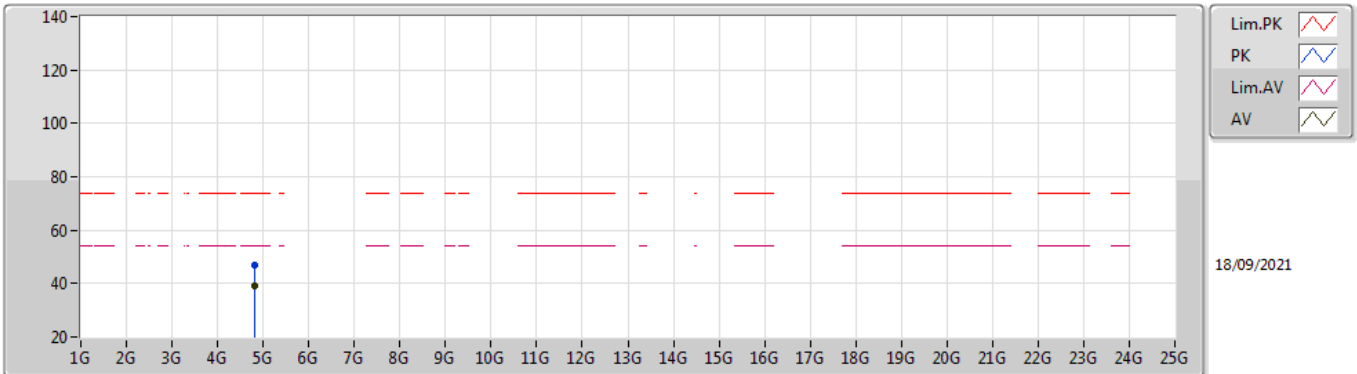


EUT_Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.82388G	46.95	74.00	-27.05	42.96	3	Vertical	237	1.96	-	31.05	5.00	32.06	
AV	4.824G	38.32	54.00	-15.68	34.33	3	Vertical	237	1.96	-	31.05	5.00	32.06	

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

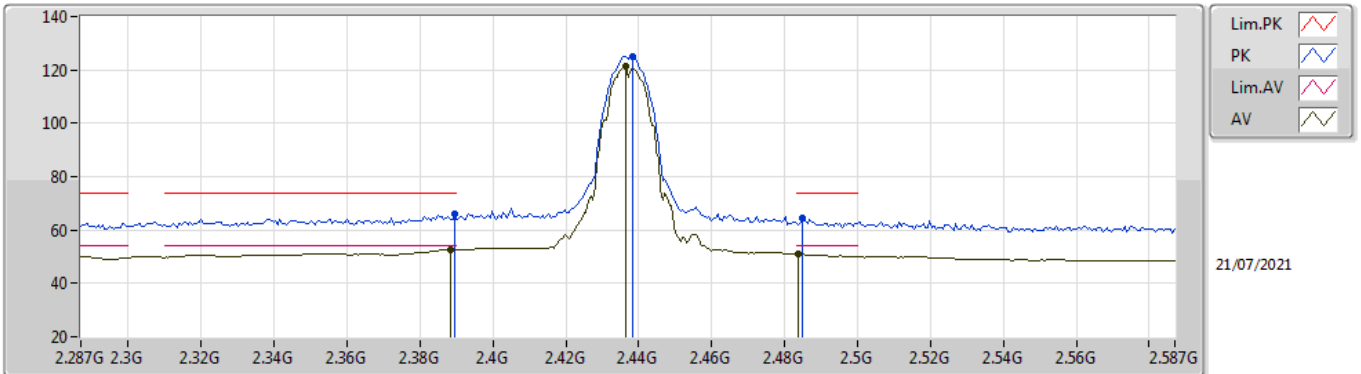


EUT Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82408G	46.70	74.00	-27.30	42.71	3	Horizontal	181	1.89	-	31.05	5.00	32.06
AV	4.824G	39.16	54.00	-14.84	35.17	3	Horizontal	181	1.89	-	31.05	5.00	32.06

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

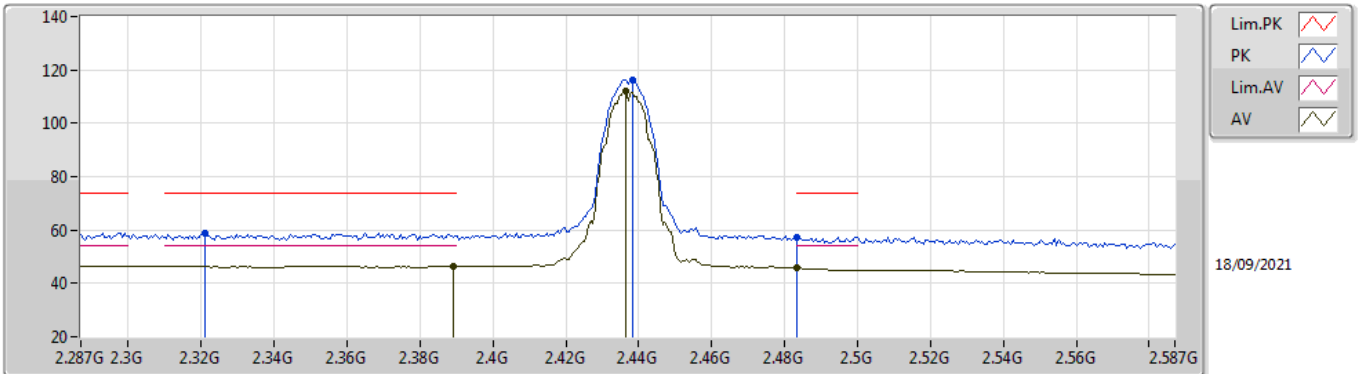


EUT_Y_4TX
Setting 100
02-B-N-2
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	65.84	74.00	-8.16	35.05	3	Vertical	185	1.80	-	28.38	2.41	-
AV	2.3884G	52.59	54.00	-1.41	21.80	3	Vertical	185	1.80	-	28.38	2.41	-
PK	2.4382G	124.99	Inf	-Inf	94.17	3	Vertical	185	1.80	-	28.40	2.42	-
AV	2.4364G	121.26	Inf	-Inf	90.44	3	Vertical	185	1.80	-	28.40	2.42	-
PK	2.485G	64.73	74.00	-9.27	33.75	3	Vertical	185	1.80	-	28.54	2.44	-
AV	2.4838G	50.79	54.00	-3.21	19.81	3	Vertical	185	1.80	-	28.54	2.44	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

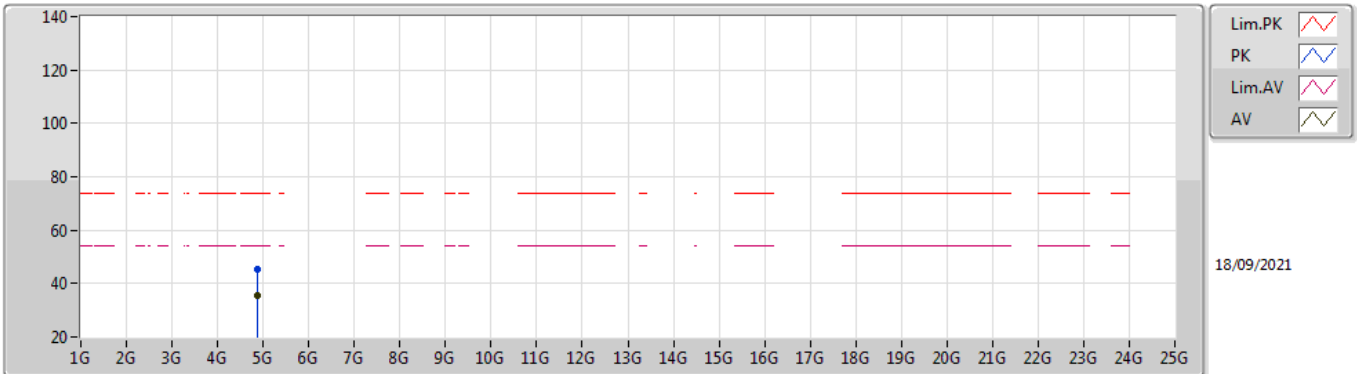


EUT_Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3212G	58.78	74.00	-15.22	27.92	3	Horizontal	136	2.22	-	27.92	2.94	-
AV	2.389G	46.40	54.00	-7.60	15.83	3	Horizontal	136	2.22	-	27.49	3.08	-
PK	2.4382G	116.20	Inf	-Inf	85.81	3	Horizontal	136	2.22	-	27.25	3.14	-
AV	2.4364G	112.18	Inf	-Inf	81.79	3	Horizontal	136	2.22	-	27.25	3.14	-
PK	2.4835G	57.49	74.00	-16.51	27.04	3	Horizontal	136	2.22	-	27.27	3.18	-
AV	2.4835G	45.63	54.00	-8.37	15.18	3	Horizontal	136	2.22	-	27.27	3.18	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

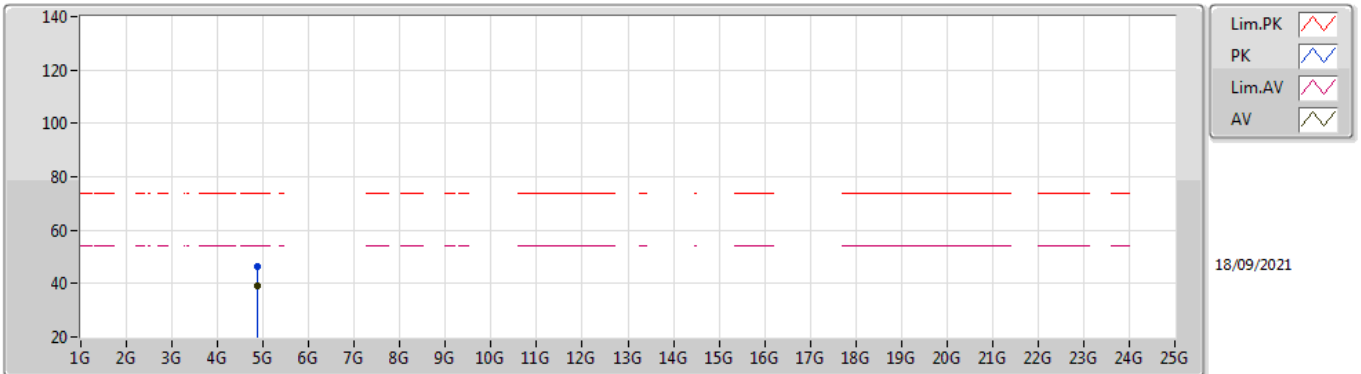


EUT Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87404G	45.19	74.00	-28.81	41.16	3	Vertical	237	2.14	-	31.05	5.00	32.02
AV	4.87396G	35.59	54.00	-18.41	31.56	3	Vertical	237	2.14	-	31.05	5.00	32.02

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

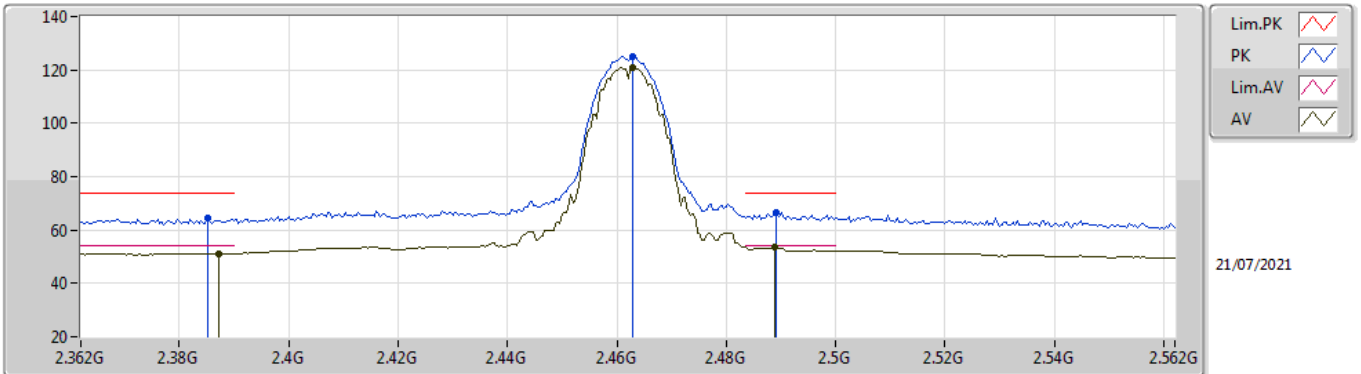


EUT Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.87384G	46.53	74.00	-27.47	42.50	3	Horizontal	182	1.91	-	31.05	5.00	32.02	
AV	4.874G	39.27	54.00	-14.73	35.24	3	Horizontal	182	1.91	-	31.05	5.00	32.02	

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

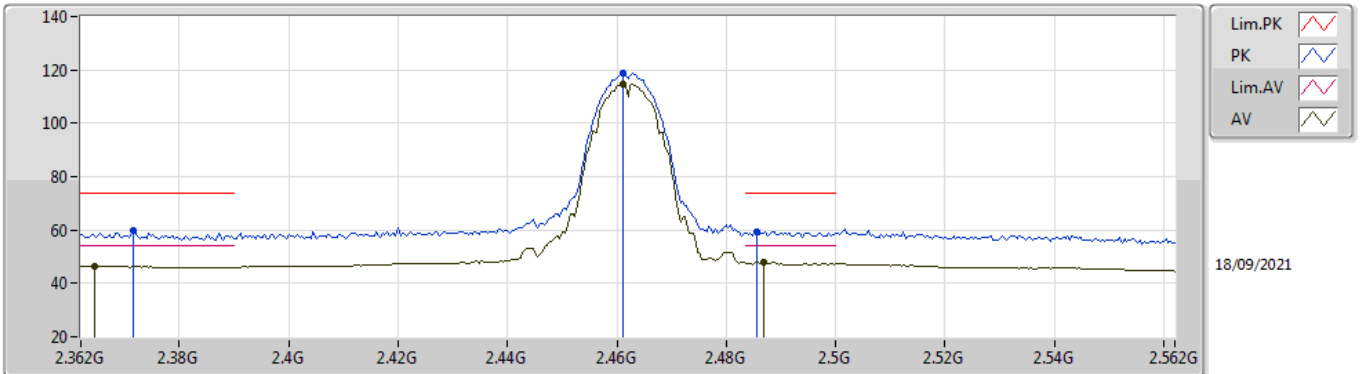


EUT_Y_4TX
Setting 100
02-B-N-2
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3852G	64.23	74.00	-9.77	33.45	3	Vertical	159	1.77	-	28.37	2.41	-
AV	2.3872G	51.26	54.00	-2.74	20.48	3	Vertical	159	1.77	-	28.37	2.41	-
PK	2.4628G	124.95	Inf	-Inf	94.07	3	Vertical	159	1.77	-	28.45	2.43	-
AV	2.4628G	121.02	Inf	-Inf	90.14	3	Vertical	159	1.77	-	28.45	2.43	-
PK	2.4892G	66.38	74.00	-7.62	35.38	3	Vertical	159	1.77	-	28.56	2.44	-
AV	2.4888G	53.51	54.00	-0.49	22.51	3	Vertical	159	1.77	-	28.56	2.44	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

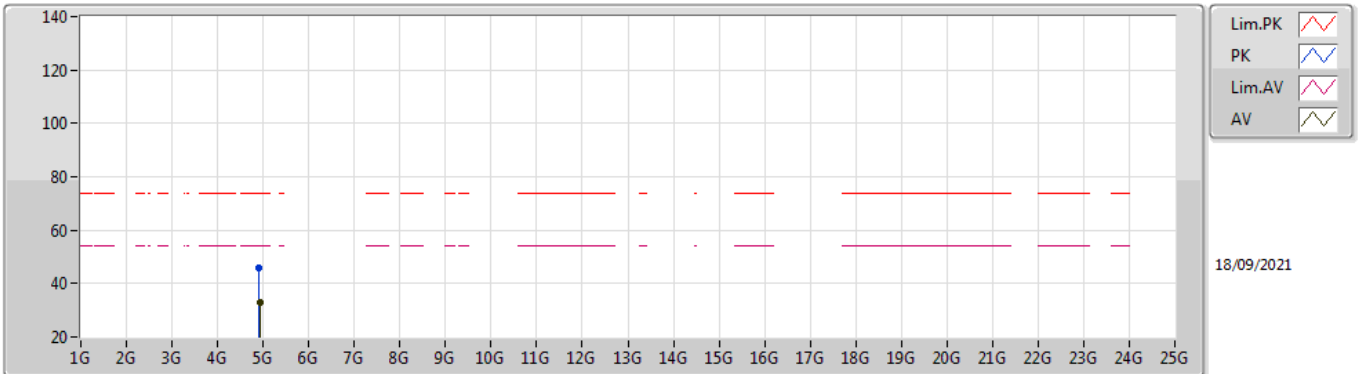


EUT_Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3716G	59.76	74.00	-14.24	29.09	3	Horizontal	133	2.15	-	27.63	3.04	-	
AV	2.3644G	46.44	54.00	-7.56	15.73	3	Horizontal	133	2.15	-	27.68	3.03	-	
PK	2.4612G	118.58	Inf	-Inf	88.20	3	Horizontal	133	2.15	-	27.22	3.16	-	
AV	2.4612G	114.77	Inf	-Inf	84.39	3	Horizontal	133	2.15	-	27.22	3.16	-	
PK	2.4856G	59.27	74.00	-14.73	28.81	3	Horizontal	133	2.15	-	27.27	3.19	-	
AV	2.4868G	47.94	54.00	-6.06	17.48	3	Horizontal	133	2.15	-	27.27	3.19	-	

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

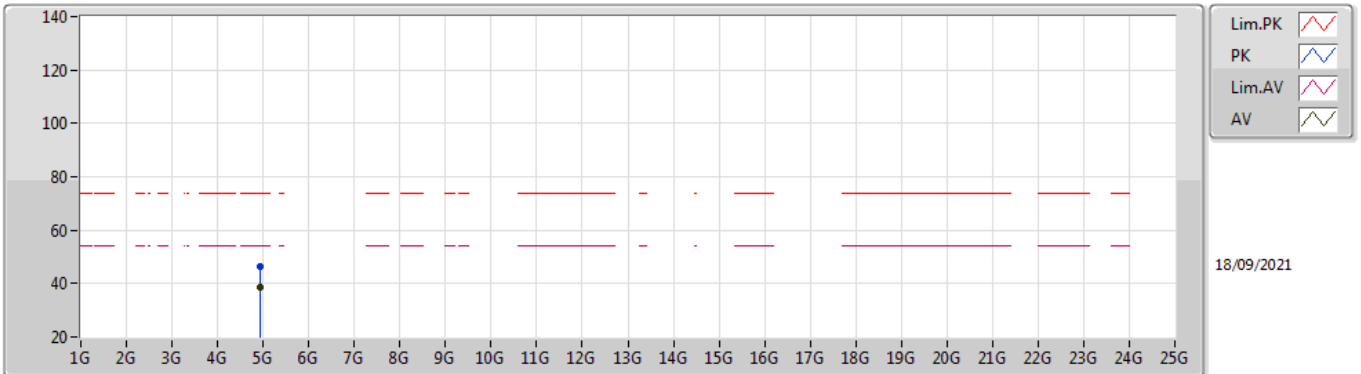


EUT Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91424G	45.97	74.00	-28.03	41.79	3	Vertical	329	2.37	-	31.16	5.00	31.98
AV	4.93328G	33.08	54.00	-20.92	28.82	3	Vertical	329	2.37	-	31.23	5.00	31.97

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

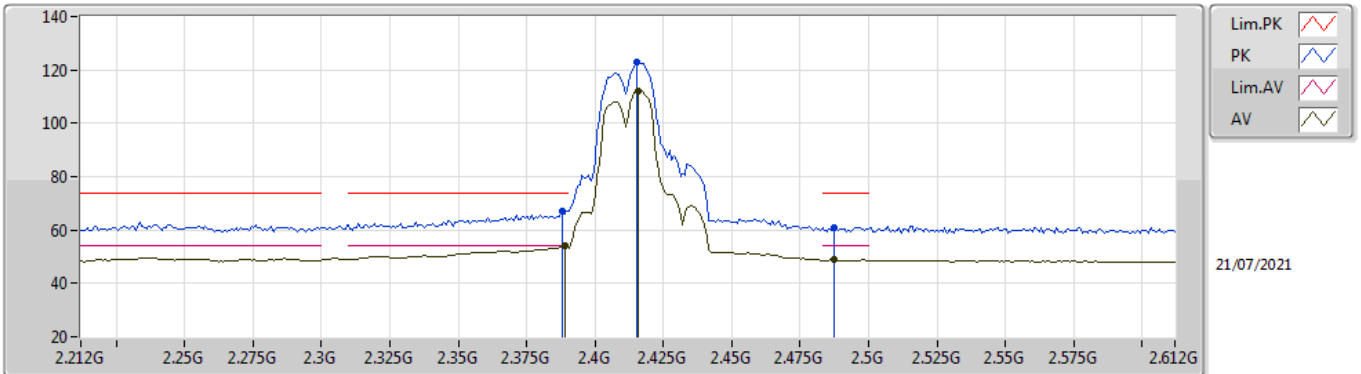


EUT Y_4TX
Setting 100
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92412G	46.27	74.00	-27.73	42.04	3	Horizontal	209	1.80	-	31.20	5.00	31.97
AV	4.92404G	38.51	54.00	-15.49	34.28	3	Horizontal	209	1.80	-	31.20	5.00	31.97

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

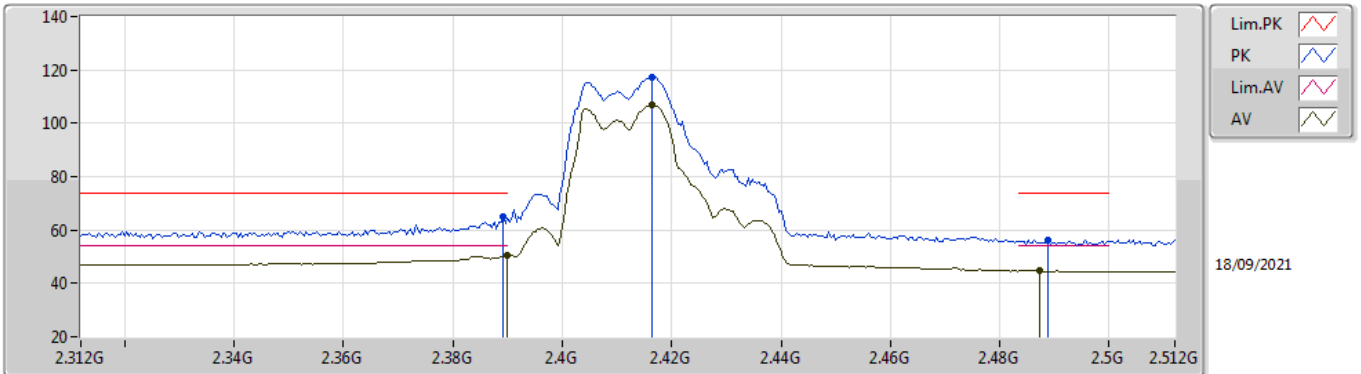


EUT_Y_4TX
Setting 95
02-B-N-2
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	67.07	74.00	-6.93	36.28	3	Vertical	146	1.80	-	28.38	2.41	-
AV	2.3888G	53.91	54.00	-0.09	23.12	3	Vertical	146	1.80	-	28.38	2.41	-
PK	2.4152G	122.92	Inf	-Inf	92.11	3	Vertical	146	1.80	-	28.40	2.41	-
AV	2.416G	112.28	Inf	-Inf	81.47	3	Vertical	146	1.80	-	28.40	2.41	-
PK	2.4872G	61.11	74.00	-12.89	30.12	3	Vertical	146	1.80	-	28.55	2.44	-
AV	2.4872G	48.78	54.00	-5.22	17.79	3	Vertical	146	1.80	-	28.55	2.44	-

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

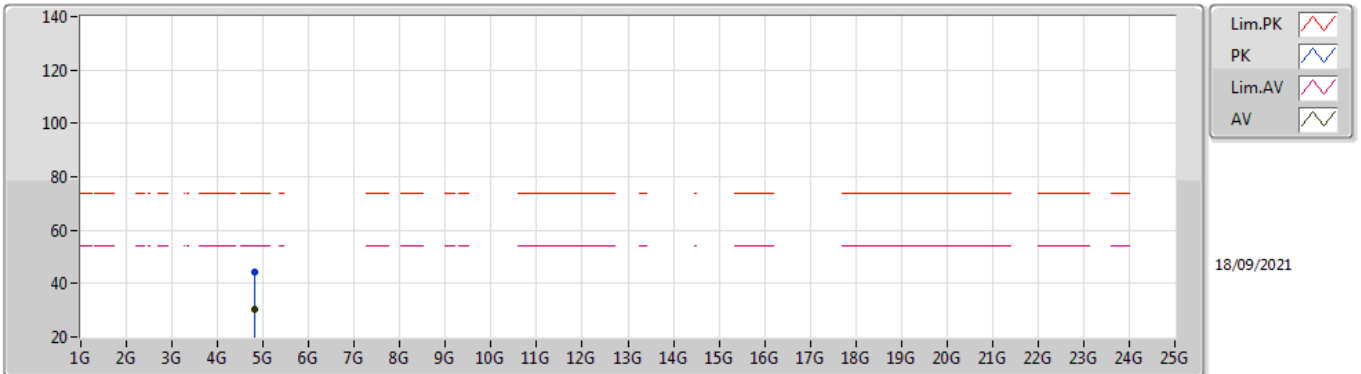


EUT_Y_4TX
Setting 95
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3892G	65.21	74.00	-8.79	34.64	3	Horizontal	116	1.47	-	27.49	3.08	-	
AV	2.39G	50.57	54.00	-3.43	20.01	3	Horizontal	116	1.47	-	27.48	3.08	-	
PK	2.4164G	117.19	Inf	-Inf	86.74	3	Horizontal	116	1.47	-	27.33	3.12	-	
AV	2.4164G	106.83	Inf	-Inf	76.38	3	Horizontal	116	1.47	-	27.33	3.12	-	
PK	2.4888G	56.36	74.00	-17.64	25.89	3	Horizontal	116	1.47	-	27.28	3.19	-	
AV	2.4872G	44.75	54.00	-9.25	14.29	3	Horizontal	116	1.47	-	27.27	3.19	-	

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

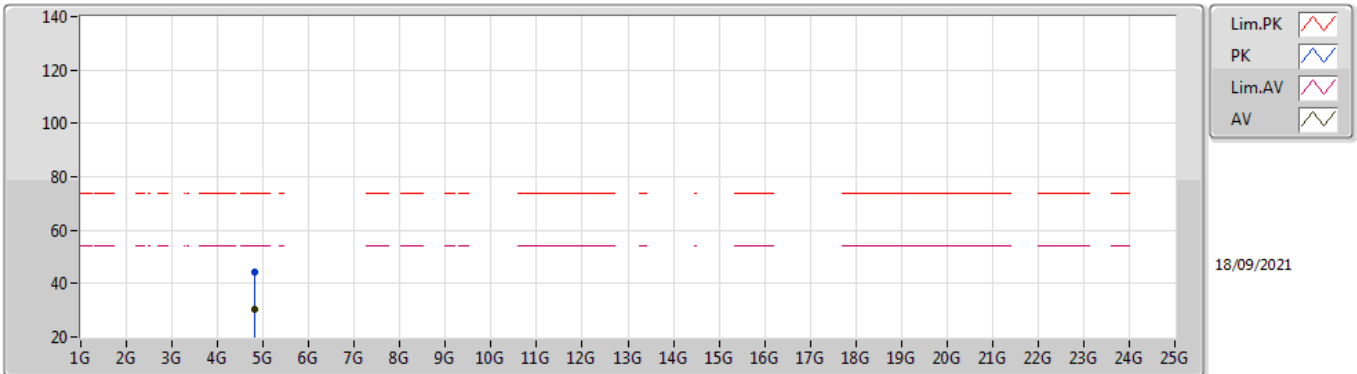


EUT Y_4TX
Setting 95
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8198G	44.32	74.00	-29.68	40.32	3	Vertical	90	2.27	-	31.06	5.00	32.06	
AV	4.82308G	30.33	54.00	-23.67	26.34	3	Vertical	90	2.27	-	31.05	5.00	32.06	

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

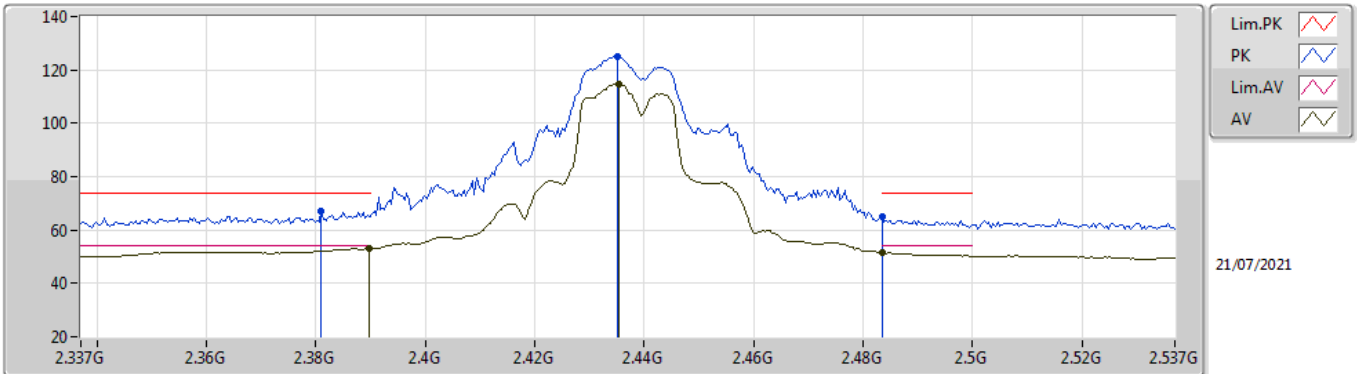


EUT Y_4TX
Setting 95
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8208G	44.25	74.00	-29.75	40.25	3	Horizontal	104	2.17	-	31.06	5.00	32.06
AV	4.82352G	30.22	54.00	-23.78	26.23	3	Horizontal	104	2.17	-	31.05	5.00	32.06

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

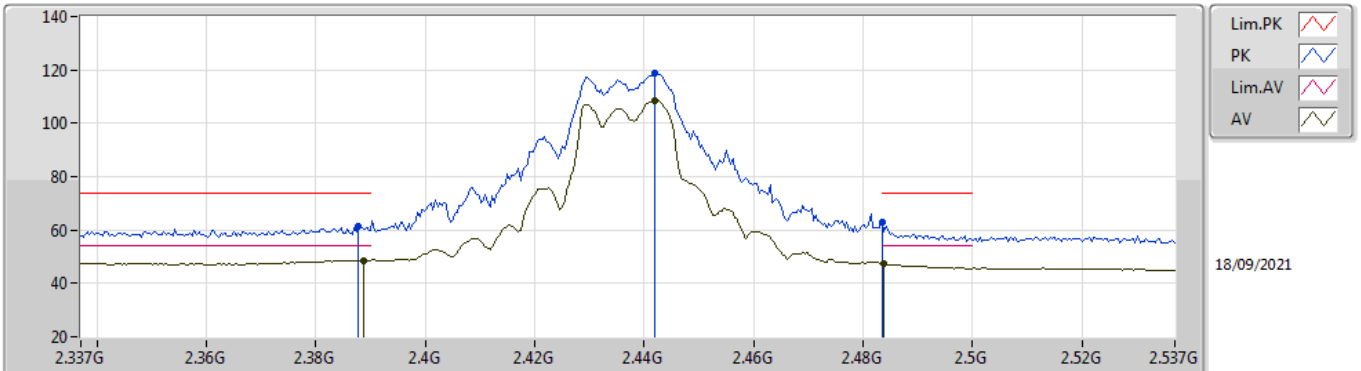


EUT_Y_4TX
Setting 100
02-B-N-2
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.381G	67.22	74.00	-6.78	36.45	3	Vertical	168	1.80	-	28.36	2.41	-
AV	2.3898G	53.15	54.00	-0.85	22.36	3	Vertical	168	1.80	-	28.38	2.41	-
PK	2.435G	125.06	Inf	-Inf	94.24	3	Vertical	168	1.80	-	28.40	2.42	-
AV	2.4354G	114.86	Inf	-Inf	84.04	3	Vertical	168	1.80	-	28.40	2.42	-
PK	2.4835G	65.02	74.00	-8.98	34.05	3	Vertical	168	1.80	-	28.53	2.44	-
AV	2.4835G	51.66	54.00	-2.34	20.69	3	Vertical	168	1.80	-	28.53	2.44	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

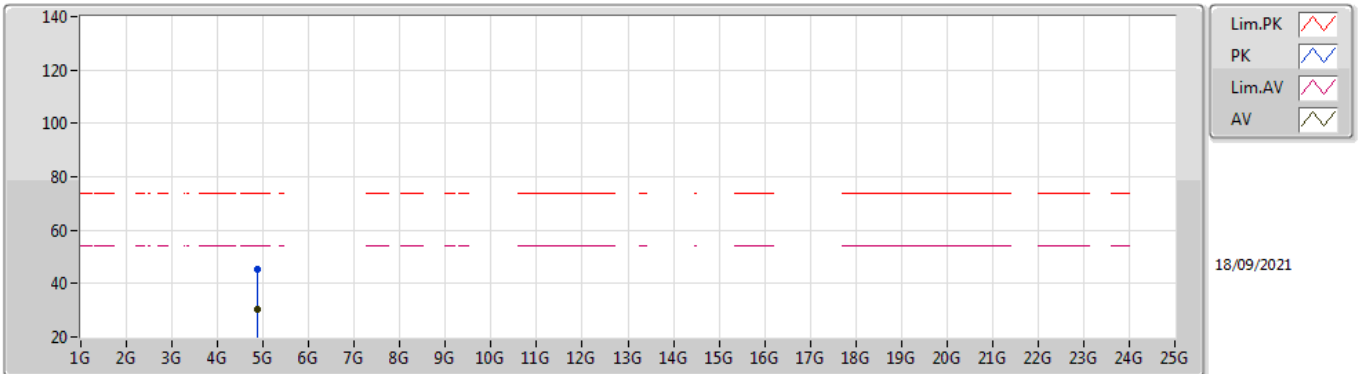


EUT_Y_4TX
Setting 100
02-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	61.13	74.00	-12.87	30.55	3	Horizontal	122	1.68	-	27.50	3.08	-
AV	2.3886G	48.70	54.00	-5.30	18.13	3	Horizontal	122	1.68	-	27.49	3.08	-
PK	2.4418G	118.87	Inf	-Inf	88.50	3	Horizontal	122	1.68	-	27.23	3.14	-
AV	2.4418G	108.68	Inf	-Inf	78.31	3	Horizontal	122	1.68	-	27.23	3.14	-
PK	2.4835G	62.99	74.00	-11.01	32.54	3	Horizontal	122	1.68	-	27.27	3.18	-
AV	2.4838G	47.39	54.00	-6.61	16.94	3	Horizontal	122	1.68	-	27.27	3.18	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

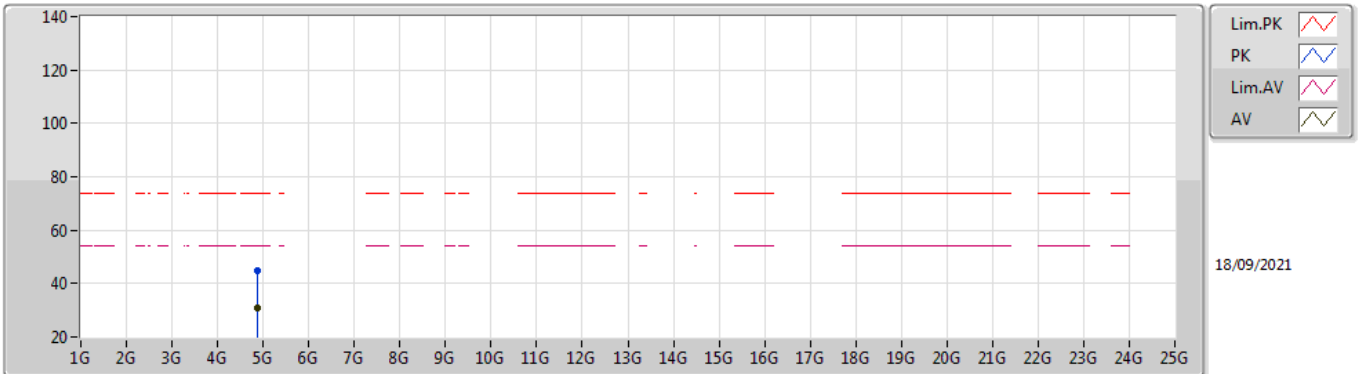


EUT Y_4TX
Setting 100
02-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87G	45.22	74.00	-28.78	41.20	3	Vertical	49	1.05	-	31.04	5.00	32.02
AV	4.88032G	30.59	54.00	-23.41	26.54	3	Vertical	49	1.05	-	31.06	5.00	32.01

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

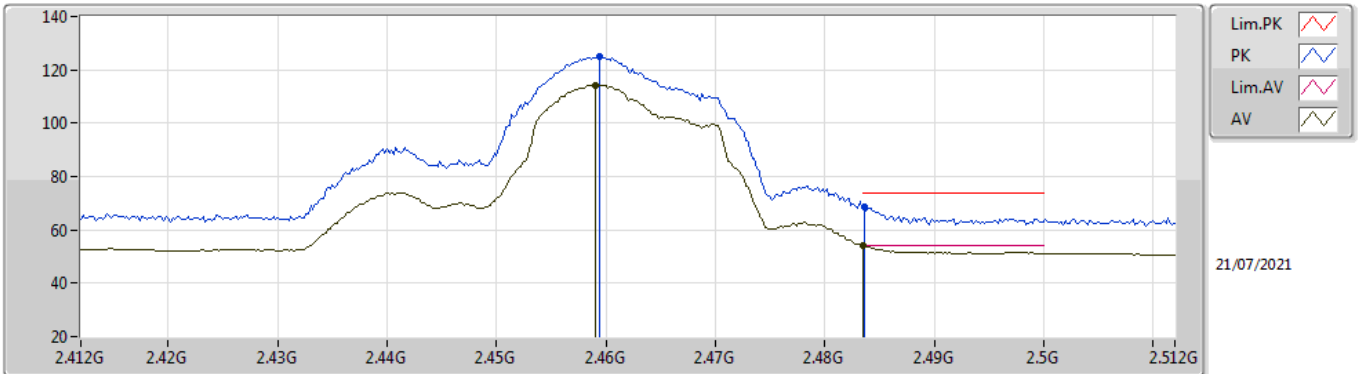


EUT Y_4TX
Setting 100
02-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87196G	44.91	74.00	-29.09	40.89	3	Horizontal	128	2.46	-	31.04	5.00	32.02
AV	4.87532G	31.00	54.00	-23.00	26.96	3	Horizontal	128	2.46	-	31.05	5.00	32.01

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

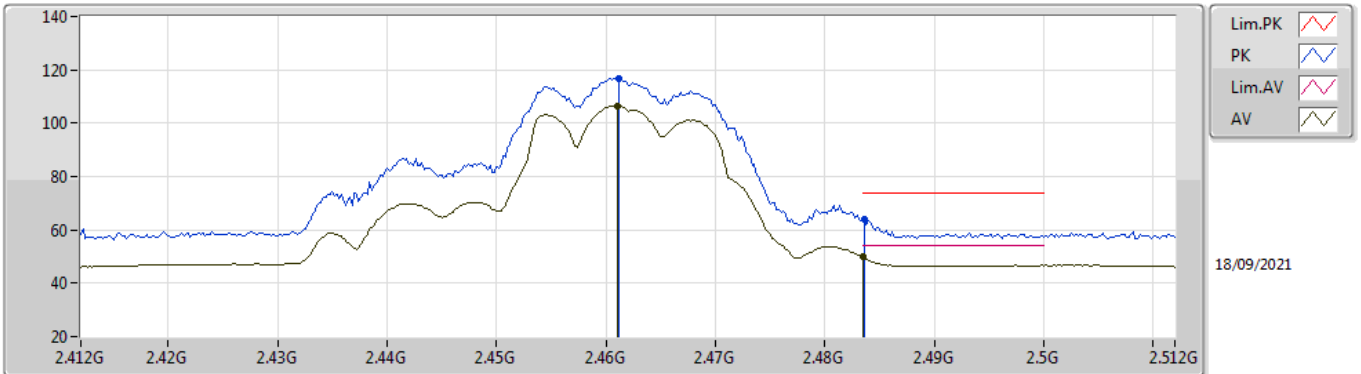


EUT_Y_4TX
Setting 96
02-B-N-2
PCB35
ANT WU0514

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA	
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)	
PK	2.4594G	124.94	Inf	-Inf	94.07	3	Vertical	148	1.79	-	28.44	2.43	-	
AV	2.459G	114.19	Inf	-Inf	83.32	3	Vertical	148	1.79	-	28.44	2.43	-	
PK	2.4836G	68.82	74.00	-5.18	37.85	3	Vertical	148	1.79	-	28.53	2.44	-	
AV	2.4835G	53.98	54.00	-0.02	23.01	3	Vertical	148	1.79	-	28.53	2.44	-	

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

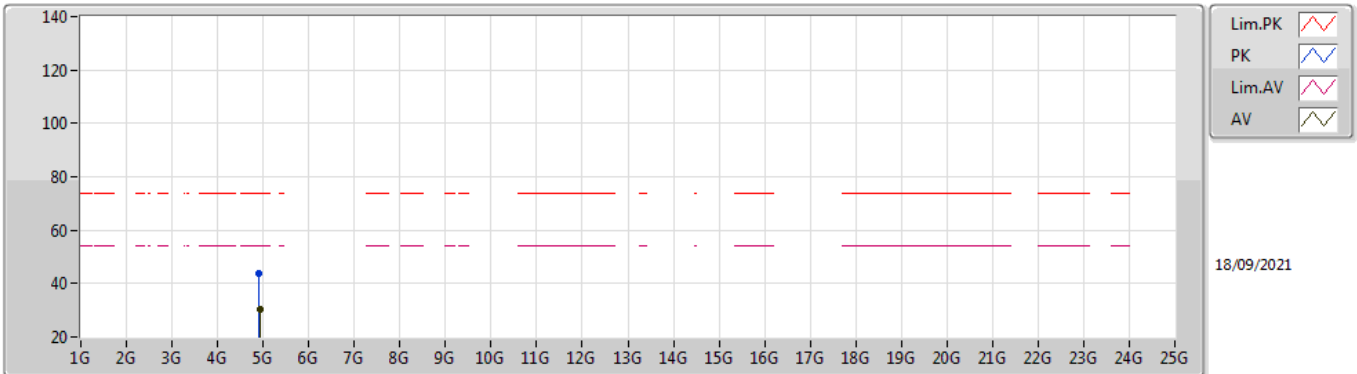


EUT_Y_4TX
Setting 96
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4612G	116.92	Inf	-Inf	86.54	3	Horizontal	132	2.16	-	27.22	3.16	-	
AV	2.461G	106.54	Inf	-Inf	76.16	3	Horizontal	132	2.16	-	27.22	3.16	-	
PK	2.4836G	63.96	74.00	-10.04	33.51	3	Horizontal	132	2.16	-	27.27	3.18	-	
AV	2.4835G	49.85	54.00	-4.15	19.40	3	Horizontal	132	2.16	-	27.27	3.18	-	

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

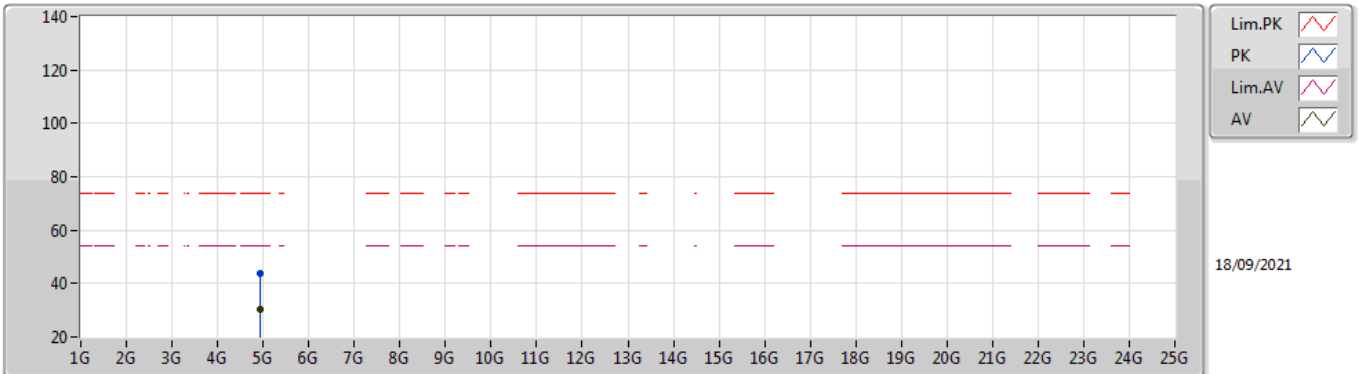


EUT Y_4TX
Setting 96
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91444G	44.05	74.00	-29.95	39.87	3	Vertical	43	1.55	-	31.16	5.00	31.98
AV	4.93384G	30.25	54.00	-23.75	25.98	3	Vertical	43	1.55	-	31.24	5.00	31.97

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX



EUT_Y_4TX
Setting 96
06-F-S-5
PCB35
ANT WU0514

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.93064G	43.98	74.00	-30.02	39.73	3	Horizontal	208	1.40	-	31.22	5.00	31.97
AV	4.92892G	30.29	54.00	-23.71	26.04	3	Horizontal	208	1.40	-	31.22	5.00	31.97

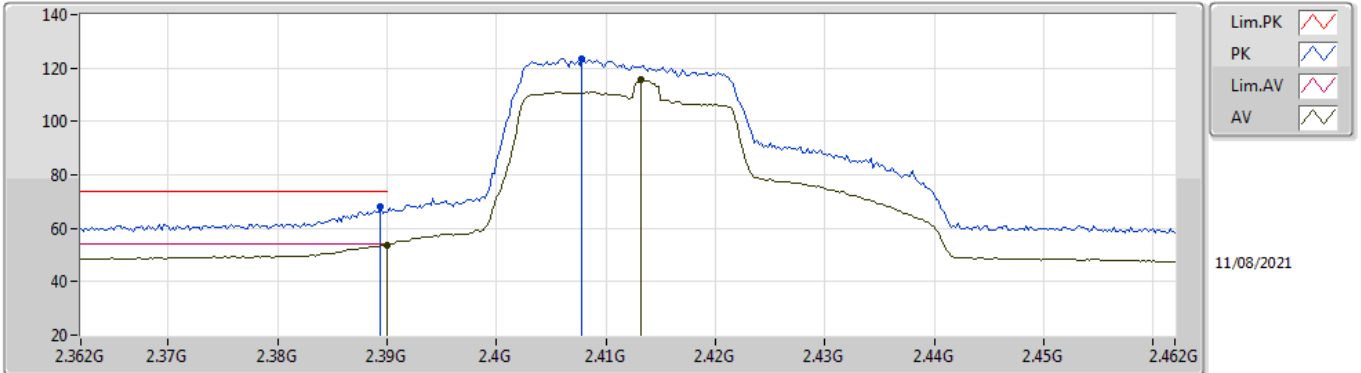


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	Pass	AV	2.4835G	53.98	54.00	-0.02	3	Vertical	97	1.75	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

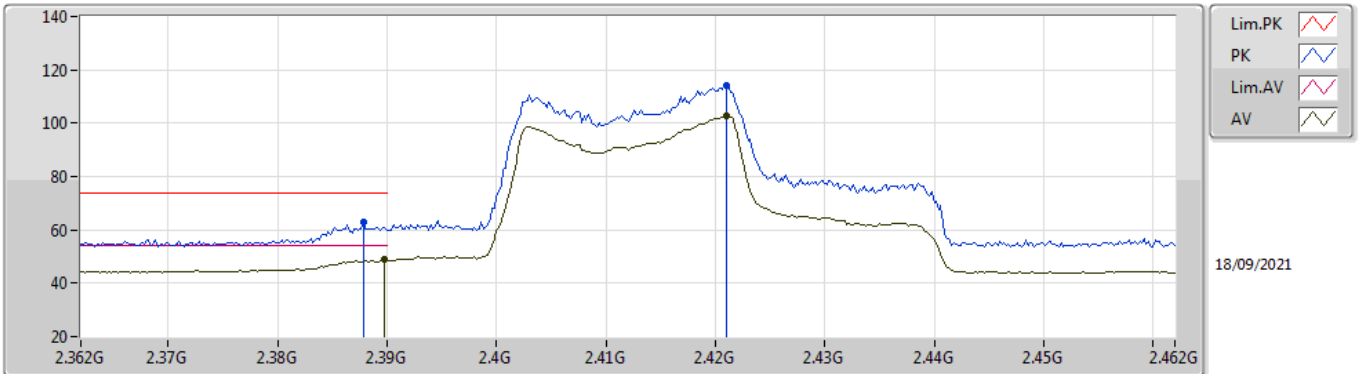


EUT V_4TX
Setting 83
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	67.89	74.00	-6.11	37.17	3	Vertical	192.5	1.49	-	27.64	3.08	-
AV	2.39G	53.87	54.00	-0.13	23.15	3	Vertical	192.5	1.49	-	27.64	3.08	-
PK	2.4078G	123.54	Inf	-Inf	92.85	3	Vertical	192.5	1.49	-	27.58	3.11	-
AV	2.4132G	115.51	Inf	-Inf	84.83	3	Vertical	192.5	1.49	-	27.57	3.11	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

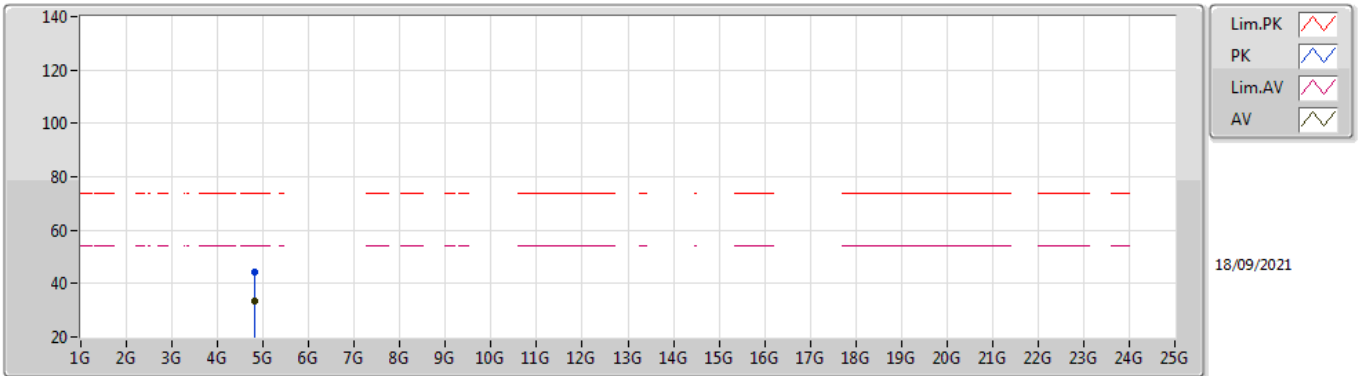


EUT_Y_4TX
Setting 83
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	63.04	74.00	-10.96	32.46	3	Horizontal	321.6	1.80	-	27.50	3.08	-
AV	2.3898G	48.71	54.00	-5.29	18.15	3	Horizontal	321.6	1.80	-	27.48	3.08	-
PK	2.421G	114.11	Inf	-Inf	83.67	3	Horizontal	321.6	1.80	-	27.32	3.12	-
AV	2.421G	102.92	Inf	-Inf	72.48	3	Horizontal	321.6	1.80	-	27.32	3.12	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

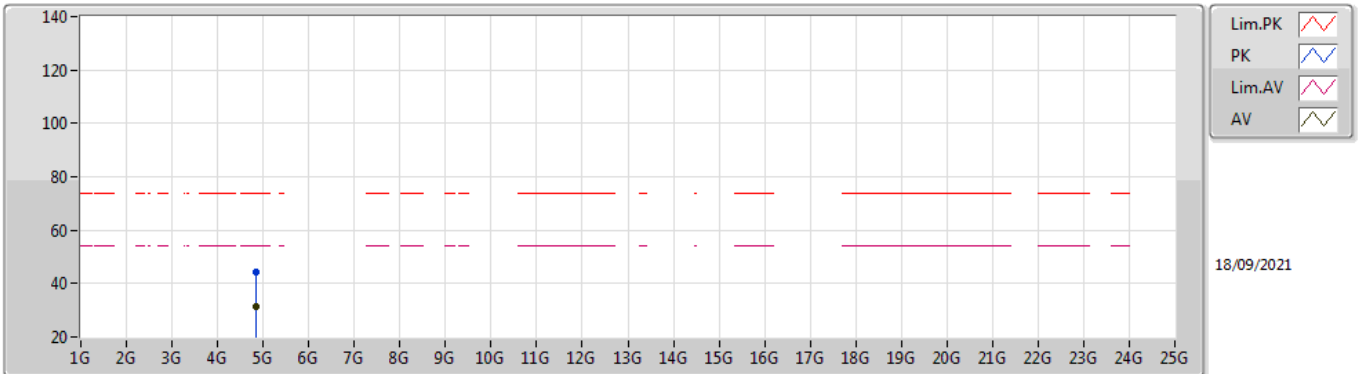


EUT Y_4TX
Setting 83
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.81616G	44.51	74.00	-29.49	40.50	3	Vertical	240	1.79	-	31.07	5.00	32.06
AV	4.824G	33.42	54.00	-20.58	29.43	3	Vertical	240	1.79	-	31.05	5.00	32.06

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

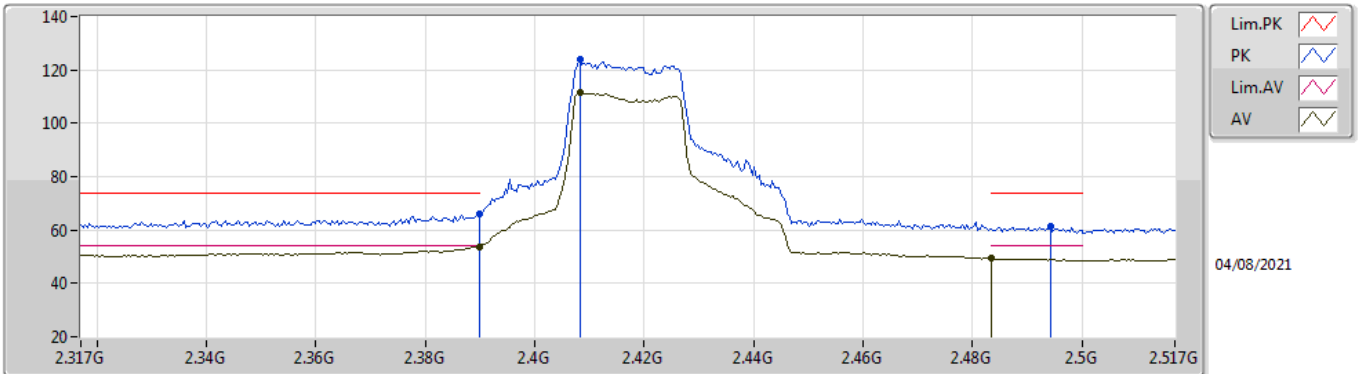


EUT Y_4TX
Setting 83
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83348G	44.27	74.00	-29.73	40.29	3	Horizontal	302	1.02	-	31.03	5.00	32.05
AV	4.83128G	31.41	54.00	-22.59	27.42	3	Horizontal	302	1.02	-	31.04	5.00	32.05

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2417MHz_TX

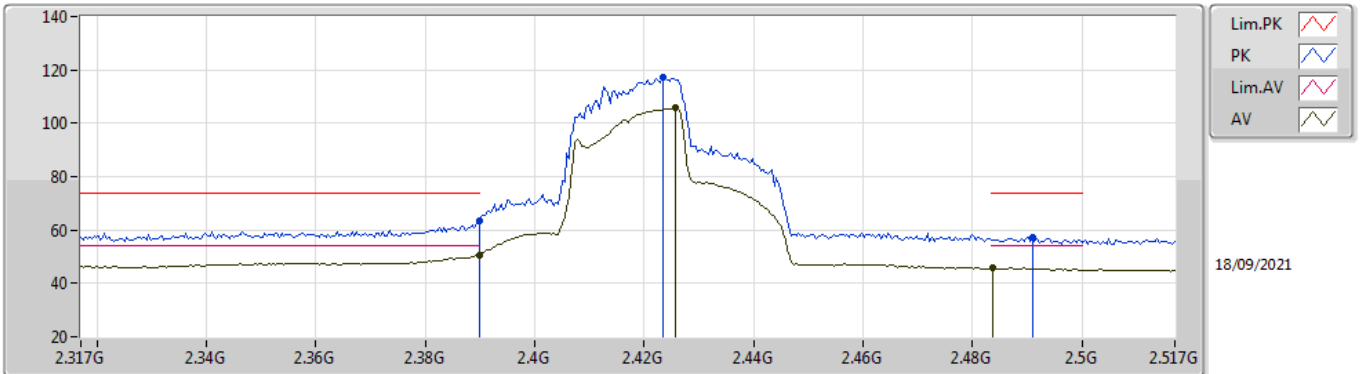


EUT_Y_4TX
Setting 97
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	65.80	74.00	-8.20	35.01	3	Vertical	198	2.30	-	28.38	2.41	-
AV	2.3898G	53.81	54.00	-0.19	23.02	3	Vertical	198	2.30	-	28.38	2.41	-
PK	2.4082G	123.86	Inf	-Inf	93.06	3	Vertical	198	2.30	-	28.40	2.40	-
AV	2.4082G	111.55	Inf	-Inf	80.75	3	Vertical	198	2.30	-	28.40	2.40	-
PK	2.4942G	61.36	74.00	-12.64	30.33	3	Vertical	198	2.30	-	28.58	2.45	-
AV	2.4835G	49.26	54.00	-4.74	18.29	3	Vertical	198	2.30	-	28.53	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2417MHz_TX

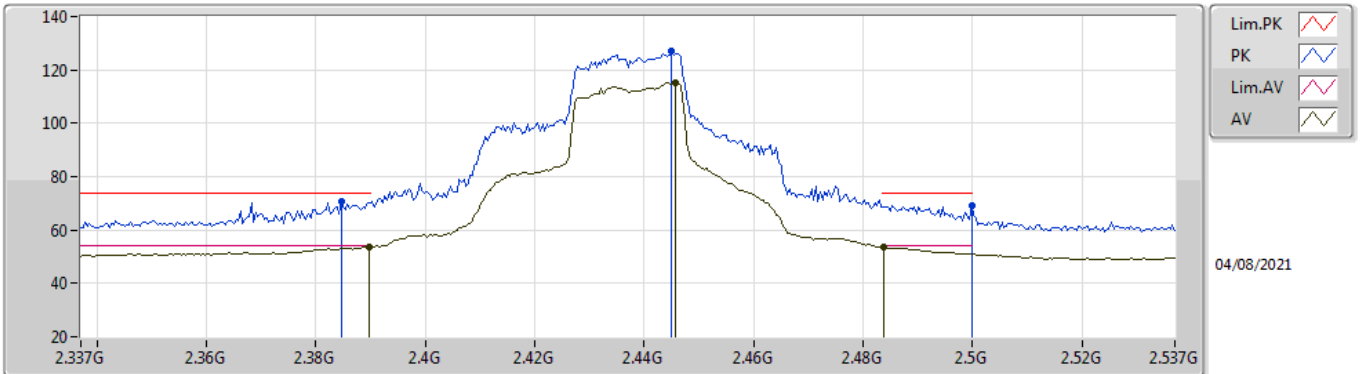


EUT_Y_4TX
Setting 97
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	63.23	74.00	-10.77	32.67	3	Horizontal	296.2	1.80	-	27.48	3.08	-
AV	2.3898G	50.52	54.00	-3.48	19.96	3	Horizontal	296.2	1.80	-	27.48	3.08	-
PK	2.4234G	117.35	Inf	-Inf	86.92	3	Horizontal	296.2	1.80	-	27.31	3.12	-
AV	2.4258G	105.70	Inf	-Inf	75.27	3	Horizontal	296.2	1.80	-	27.30	3.13	-
PK	2.491G	57.15	74.00	-16.85	26.68	3	Horizontal	296.2	1.80	-	27.28	3.19	-
AV	2.4838G	45.67	54.00	-8.33	15.22	3	Horizontal	296.2	1.80	-	27.27	3.18	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

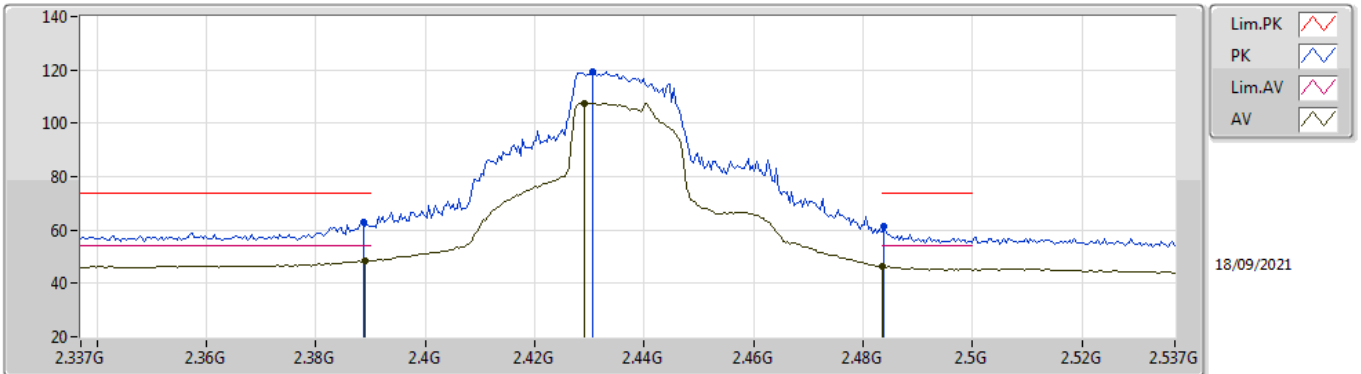


EUT Y_4TX
Setting 100
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3846G	70.46	74.00	-3.54	39.68	3	Vertical	190	2.59	-	28.37	2.41	-
AV	2.3898G	53.62	54.00	-0.38	22.83	3	Vertical	190	2.59	-	28.38	2.41	-
PK	2.445G	127.08	Inf	-Inf	96.26	3	Vertical	190	2.59	-	28.40	2.42	-
AV	2.4458G	115.39	Inf	-Inf	84.57	3	Vertical	190	2.59	-	28.40	2.42	-
PK	2.4998G	69.27	74.00	-4.73	38.22	3	Vertical	190	2.59	-	28.60	2.45	-
AV	2.4838G	53.58	54.00	-0.42	22.60	3	Vertical	190	2.59	-	28.54	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

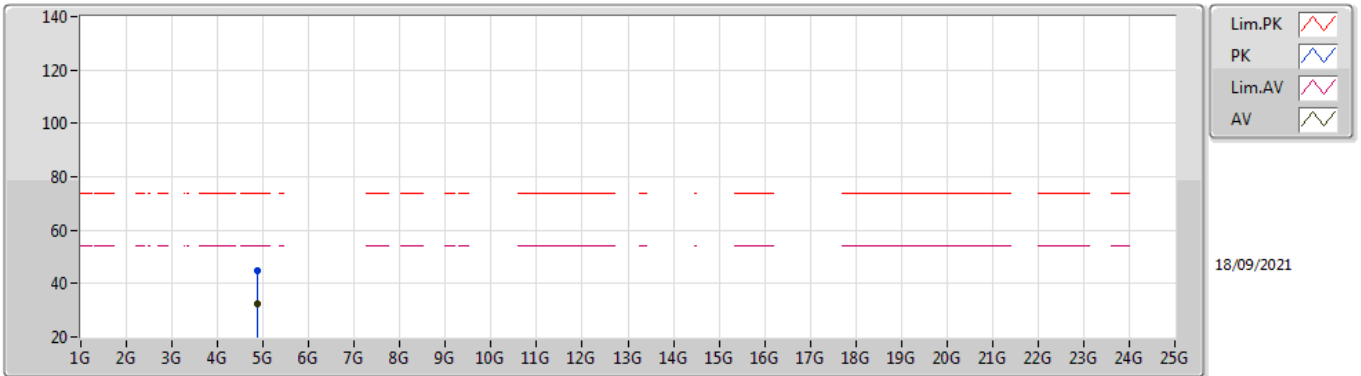


EUT_Y_4TX
Setting 100
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	62.95	74.00	-11.05	32.38	3	Horizontal	320	2.56	-	27.49	3.08	-
AV	2.389G	48.60	54.00	-5.40	18.03	3	Horizontal	320	2.56	-	27.49	3.08	-
PK	2.4306G	119.24	Inf	-Inf	88.83	3	Horizontal	320	2.56	-	27.28	3.13	-
AV	2.429G	107.61	Inf	-Inf	77.20	3	Horizontal	320	2.56	-	27.28	3.13	-
PK	2.4838G	61.16	74.00	-12.84	30.71	3	Horizontal	320	2.56	-	27.27	3.18	-
AV	2.4835G	46.19	54.00	-7.81	15.74	3	Horizontal	320	2.56	-	27.27	3.18	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

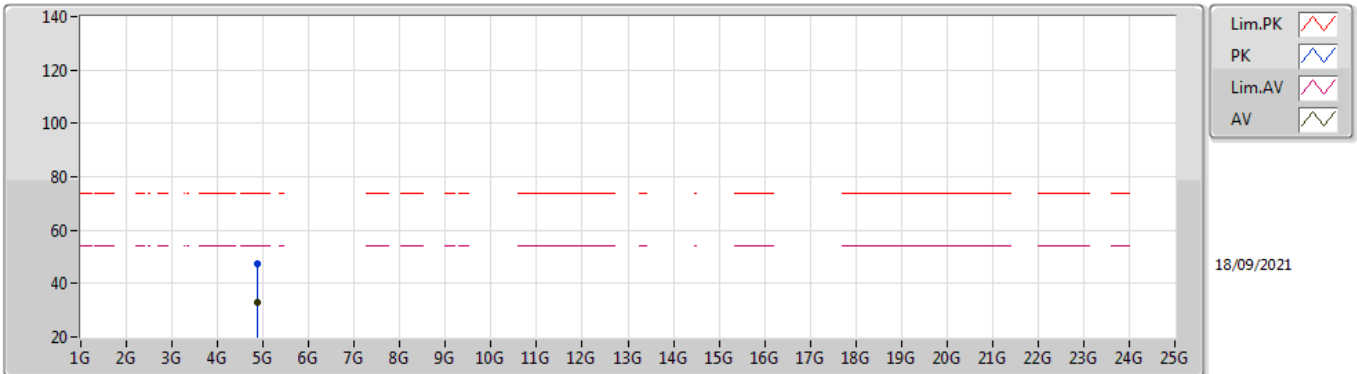


EUT Y_4TX
Setting 100
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88168G	44.59	74.00	-29.41	40.54	3	Vertical	229	1.80	-	31.06	5.00	32.01
AV	4.87348G	32.28	54.00	-21.72	28.25	3	Vertical	229	1.80	-	31.05	5.00	32.02

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

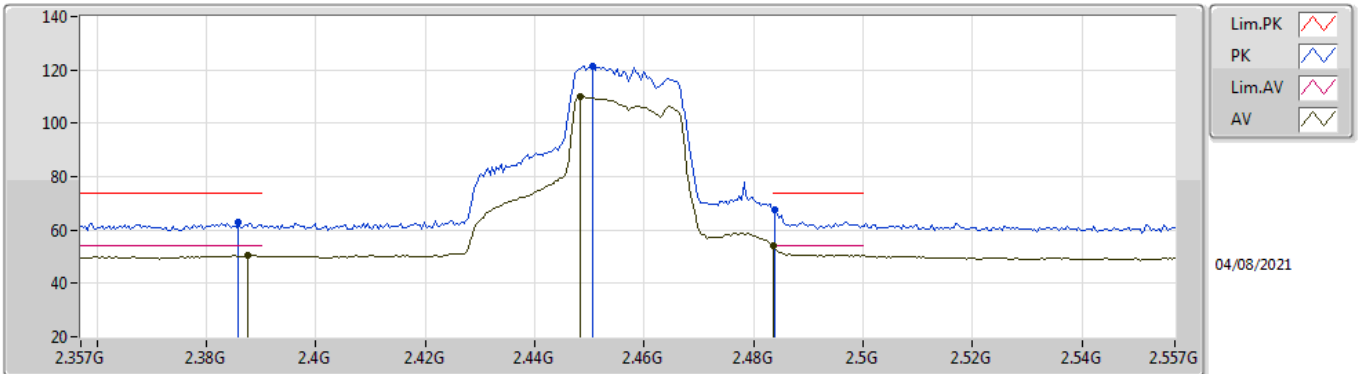


EUT Y_4TX
Setting 100
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87388G	47.45	74.00	-26.55	43.42	3	Horizontal	179	1.80	-	31.05	5.00	32.02
AV	4.87108G	33.09	54.00	-20.91	29.07	3	Horizontal	179	1.80	-	31.04	5.00	32.02

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2457MHz_TX

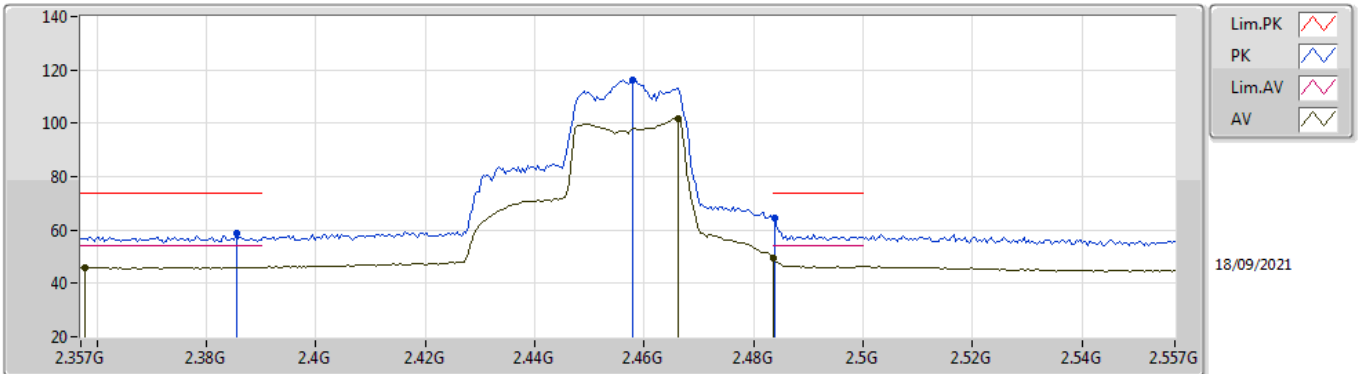


EUT_Y_4TX
Setting 95
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	62.91	74.00	-11.09	32.13	3	Vertical	97	1.75	-	28.37	2.41	-
AV	2.3874G	50.47	54.00	-3.53	19.69	3	Vertical	97	1.75	-	28.37	2.41	-
PK	2.4506G	121.62	Inf	-Inf	90.79	3	Vertical	97	1.75	-	28.40	2.43	-
AV	2.4482G	110.13	Inf	-Inf	79.31	3	Vertical	97	1.75	-	28.40	2.42	-
PK	2.4838G	67.53	74.00	-6.47	36.55	3	Vertical	97	1.75	-	28.54	2.44	-
AV	2.4835G	53.98	54.00	-0.02	23.01	3	Vertical	97	1.75	-	28.53	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2457MHz_TX

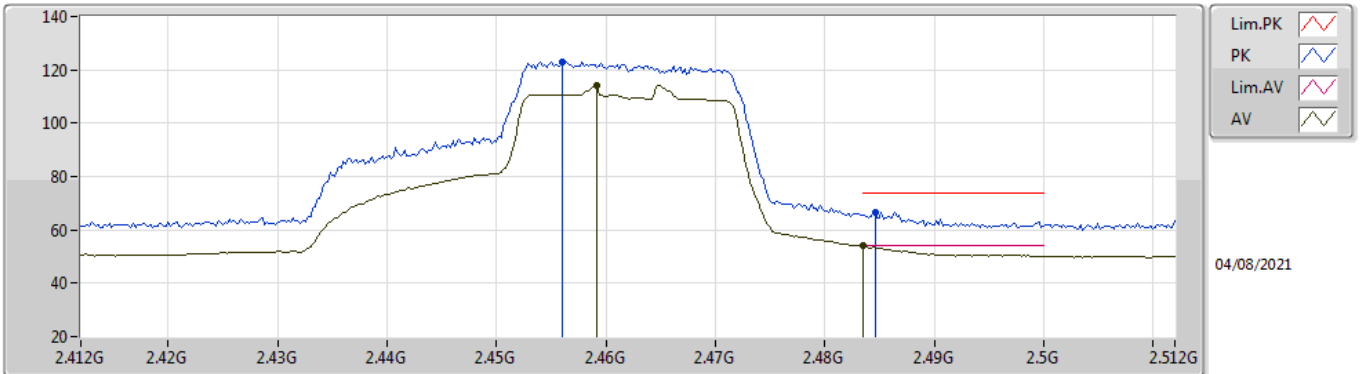


EUT_Y_4TX
Setting 95
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	59.05	74.00	-14.95	28.46	3	Horizontal	132	2.06	-	27.52	3.07	-
AV	2.3578G	46.04	54.00	-7.96	15.28	3	Horizontal	132	2.06	-	27.74	3.02	-
PK	2.4578G	116.29	Inf	-Inf	85.91	3	Horizontal	132	2.06	-	27.22	3.16	-
AV	2.4662G	101.77	Inf	-Inf	71.37	3	Horizontal	132	2.06	-	27.23	3.17	-
PK	2.4838G	64.40	74.00	-9.60	33.95	3	Horizontal	132	2.06	-	27.27	3.18	-
AV	2.4835G	49.59	54.00	-4.41	19.14	3	Horizontal	132	2.06	-	27.27	3.18	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

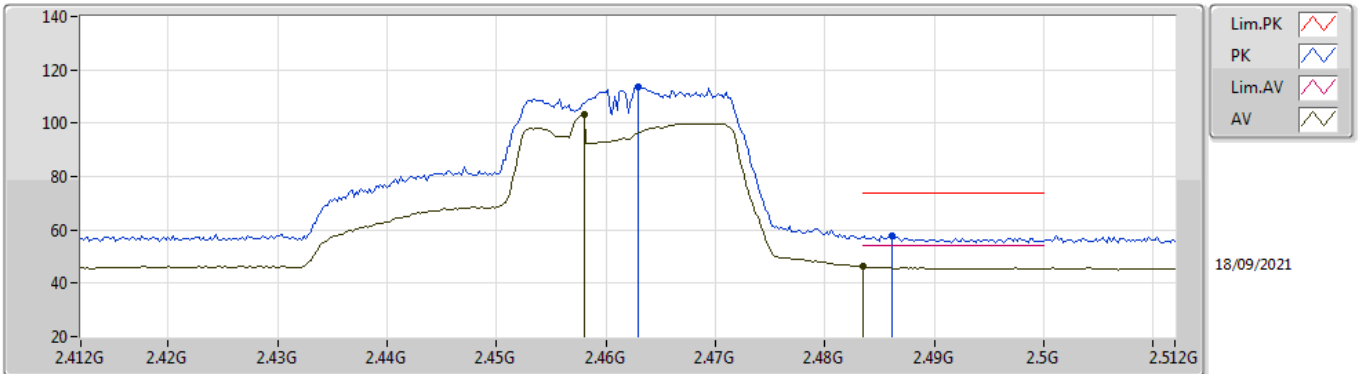


EUT Y_4TX
Setting 87
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.456G	123.10	Inf	-Inf	92.25	3	Vertical	171	2.42	-	28.42	2.43	-	
AV	2.4592G	114.35	Inf	-Inf	83.48	3	Vertical	171	2.42	-	28.44	2.43	-	
PK	2.4846G	66.61	74.00	-7.39	35.63	3	Vertical	171	2.42	-	28.54	2.44	-	
AV	2.4835G	53.90	54.00	-0.10	22.93	3	Vertical	171	2.42	-	28.53	2.44	-	

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

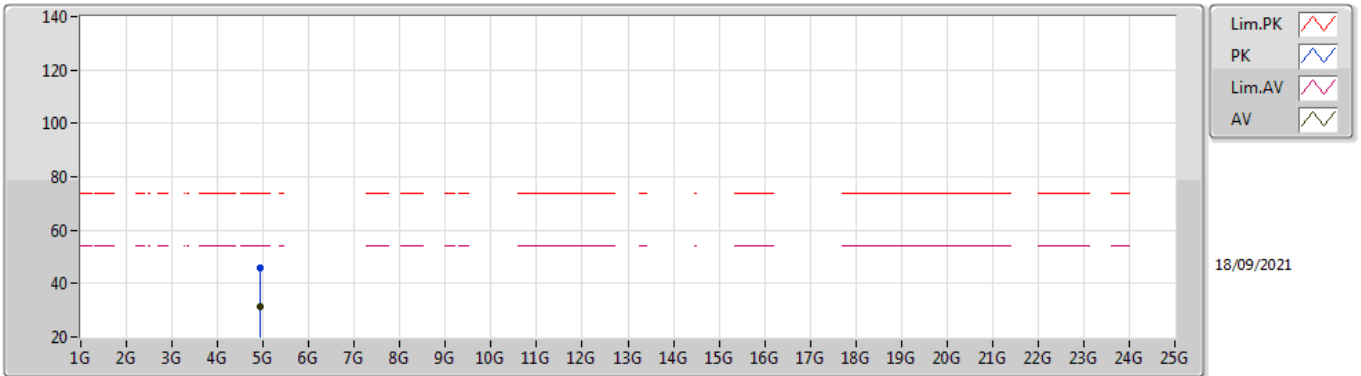


EUT_Y_4TX
Setting 87
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	113.67	Inf	-Inf	83.28	3	Horizontal	126	2.14	-	27.23	3.16	-
AV	2.458G	103.14	Inf	-Inf	72.76	3	Horizontal	126	2.14	-	27.22	3.16	-
PK	2.4862G	57.74	74.00	-16.26	27.28	3	Horizontal	126	2.14	-	27.27	3.19	-
AV	2.4835G	46.30	54.00	-7.70	15.85	3	Horizontal	126	2.14	-	27.27	3.18	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

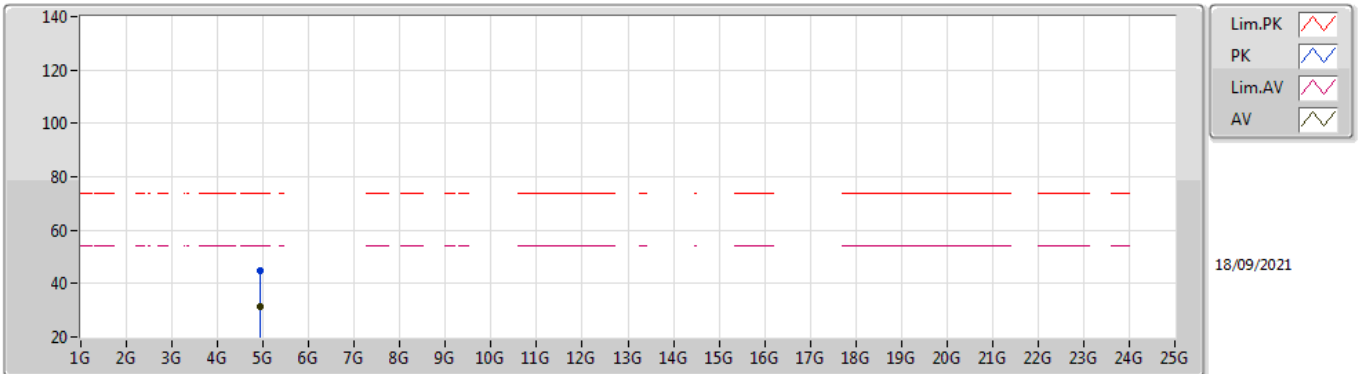


EUT Y_4TX
Setting 87
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.92248G	45.93	74.00	-28.07	41.72	3	Vertical	299	2.90	-	31.19	5.00	31.98	
AV	4.92714G	31.24	54.00	-22.76	27.00	3	Vertical	299	2.90	-	31.21	5.00	31.97	

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

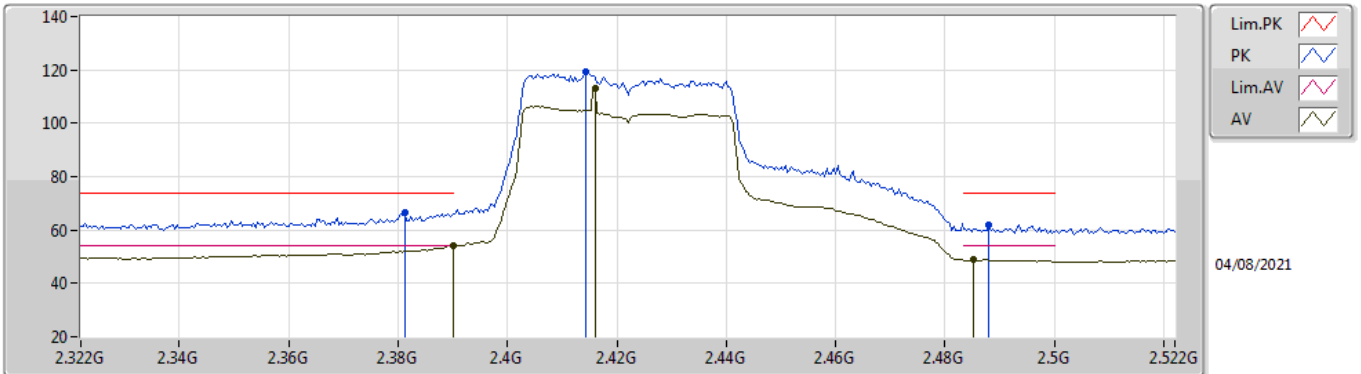


EUT Y_4TX
Setting 87
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.91988G	44.73	74.00	-29.27	40.53	3	Horizontal	287	1.81	-	31.18	5.00	31.98	
AV	4.92542G	31.18	54.00	-22.82	26.95	3	Horizontal	287	1.81	-	31.20	5.00	31.97	

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

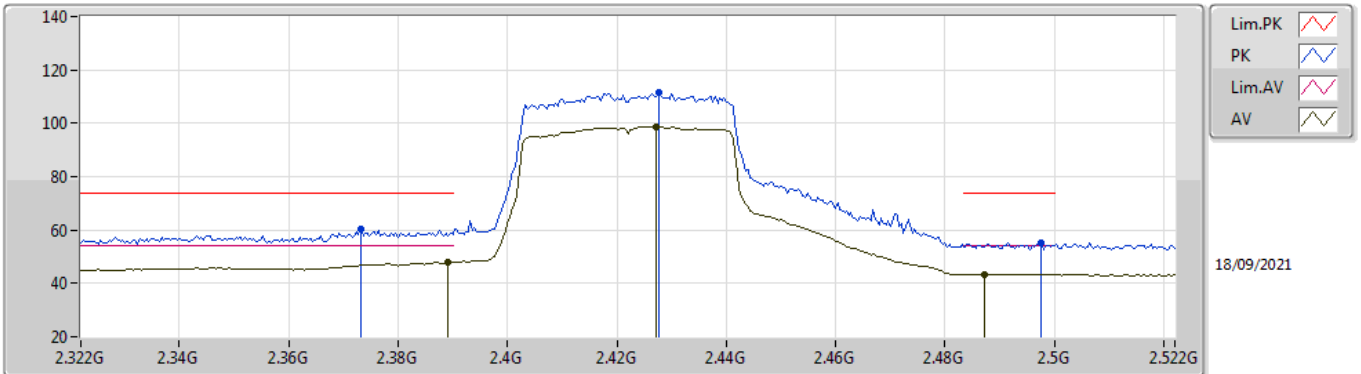


EUT_Y_4TX
Setting 84
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3812G	66.63	74.00	-7.37	35.86	3	Vertical	200	2.34	-	28.36	2.41	-
AV	2.39G	53.94	54.00	-0.06	23.15	3	Vertical	200	2.34	-	28.38	2.41	-
PK	2.4144G	119.17	Inf	-Inf	88.36	3	Vertical	200	2.34	-	28.40	2.41	-
AV	2.416G	113.11	Inf	-Inf	82.30	3	Vertical	200	2.34	-	28.40	2.41	-
PK	2.488G	62.00	74.00	-12.00	31.01	3	Vertical	200	2.34	-	28.55	2.44	-
AV	2.4852G	48.79	54.00	-5.21	17.81	3	Vertical	200	2.34	-	28.54	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

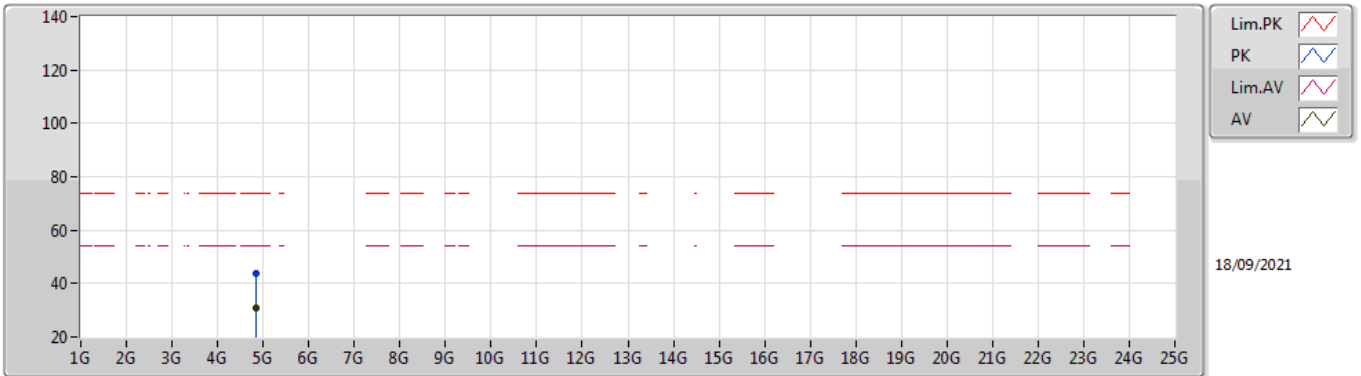


EUT_Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3732G	60.35	74.00	-13.65	29.69	3	Horizontal	180	1.80	-	27.61	3.05	-
AV	2.3892G	47.81	54.00	-6.19	17.24	3	Horizontal	180	1.80	-	27.49	3.08	-
PK	2.4276G	111.38	Inf	-Inf	80.96	3	Horizontal	180	1.80	-	27.29	3.13	-
AV	2.4272G	98.75	Inf	-Inf	68.33	3	Horizontal	180	1.80	-	27.29	3.13	-
PK	2.4976G	55.36	74.00	-18.64	24.86	3	Horizontal	180	1.80	-	27.30	3.20	-
AV	2.4872G	43.42	54.00	-10.58	12.96	3	Horizontal	180	1.80	-	27.27	3.19	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

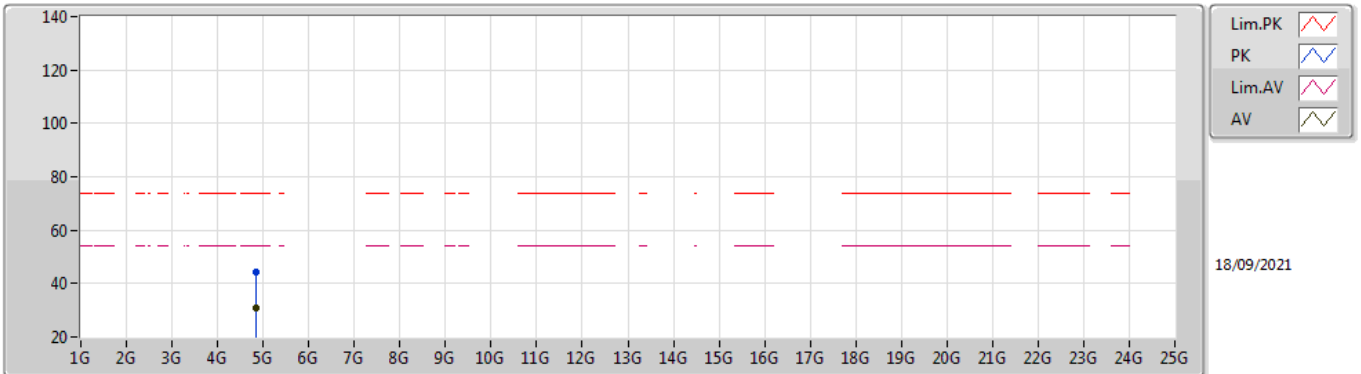


EUT Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84716G	44.04	74.00	-29.96	40.07	3	Vertical	308	2.75	-	31.01	5.00	32.04
AV	4.84308G	30.71	54.00	-23.29	26.74	3	Vertical	308	2.75	-	31.01	5.00	32.04

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

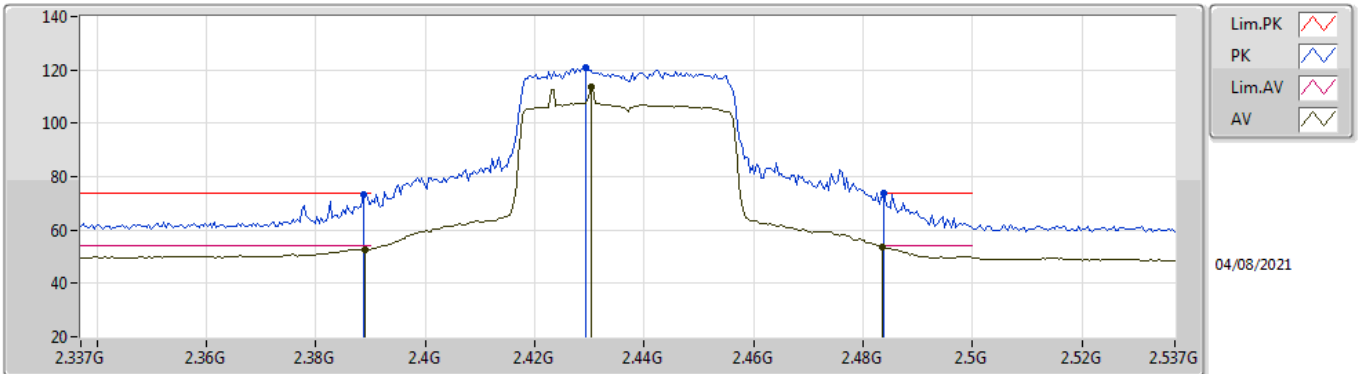


EUT Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84136G	44.14	74.00	-29.86	40.16	3	Horizontal	154	2.71	-	31.02	5.00	32.04
AV	4.84068G	30.70	54.00	-23.30	26.72	3	Horizontal	154	2.71	-	31.02	5.00	32.04

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

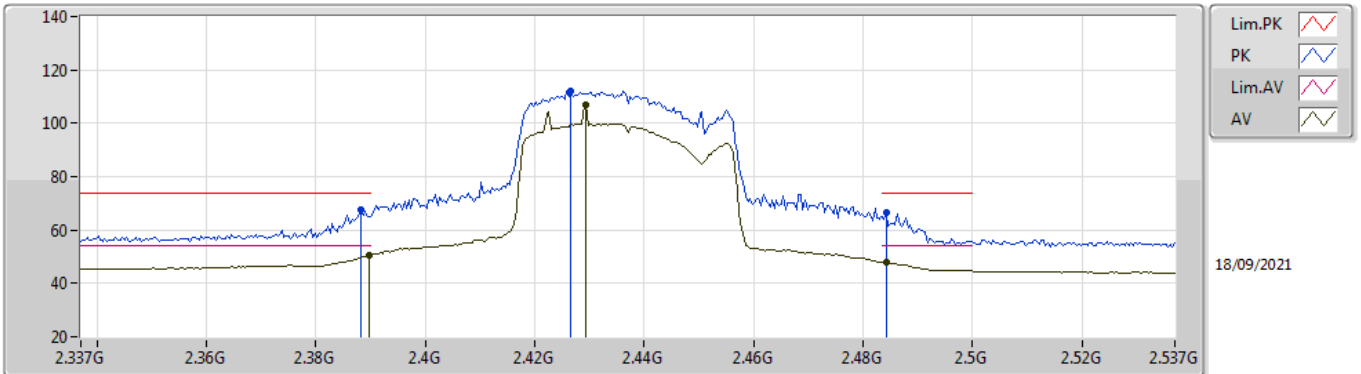


EUT_Y_4TX
Setting 84
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	73.16	74.00	-0.84	42.37	3	Vertical	18	1.81	-	28.38	2.41	-
AV	2.389G	52.83	54.00	-1.17	22.04	3	Vertical	18	1.81	-	28.38	2.41	-
PK	2.4294G	120.94	Inf	-Inf	90.13	3	Vertical	18	1.81	-	28.40	2.41	-
AV	2.4302G	113.70	Inf	-Inf	82.88	3	Vertical	18	1.81	-	28.40	2.42	-
PK	2.4838G	73.79	74.00	-0.21	42.81	3	Vertical	18	1.81	-	28.54	2.44	-
AV	2.4835G	53.79	54.00	-0.21	22.82	3	Vertical	18	1.81	-	28.53	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

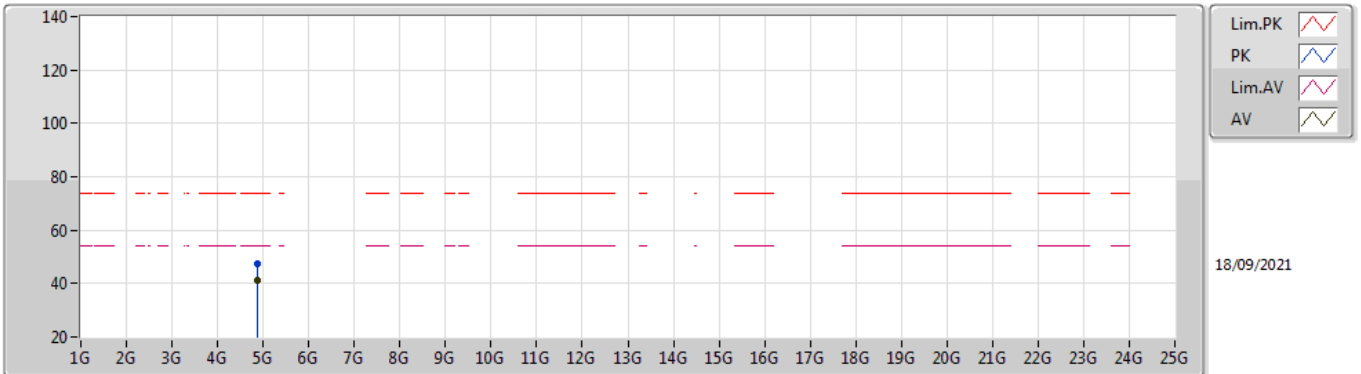


EUT_Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	67.69	74.00	-6.31	37.12	3	Horizontal	323	2.80	-	27.49	3.08	-
AV	2.3898G	50.37	54.00	-3.63	19.81	3	Horizontal	323	2.80	-	27.48	3.08	-
PK	2.4266G	112.30	Inf	-Inf	81.88	3	Horizontal	323	2.80	-	27.29	3.13	-
AV	2.4294G	106.93	Inf	-Inf	76.52	3	Horizontal	323	2.80	-	27.28	3.13	-
PK	2.4842G	66.41	74.00	-7.59	35.96	3	Horizontal	323	2.80	-	27.27	3.18	-
AV	2.4842G	48.04	54.00	-5.96	17.59	3	Horizontal	323	2.80	-	27.27	3.18	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

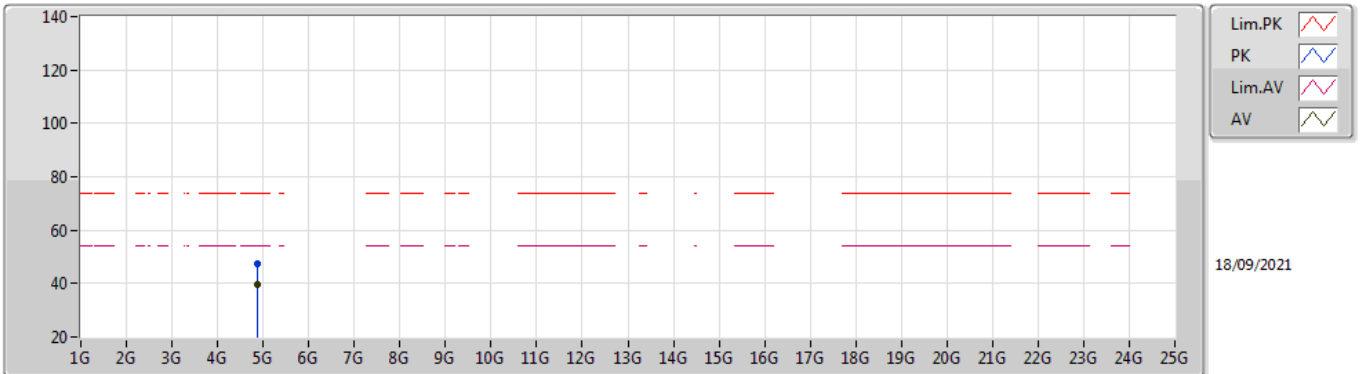


EUT Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.87406G	47.30	74.00	-26.70	43.27	3	Vertical	6	2.90	-	31.05	5.00	32.02	
AV	4.87406G	41.14	54.00	-12.86	37.11	3	Vertical	6	2.90	-	31.05	5.00	32.02	

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

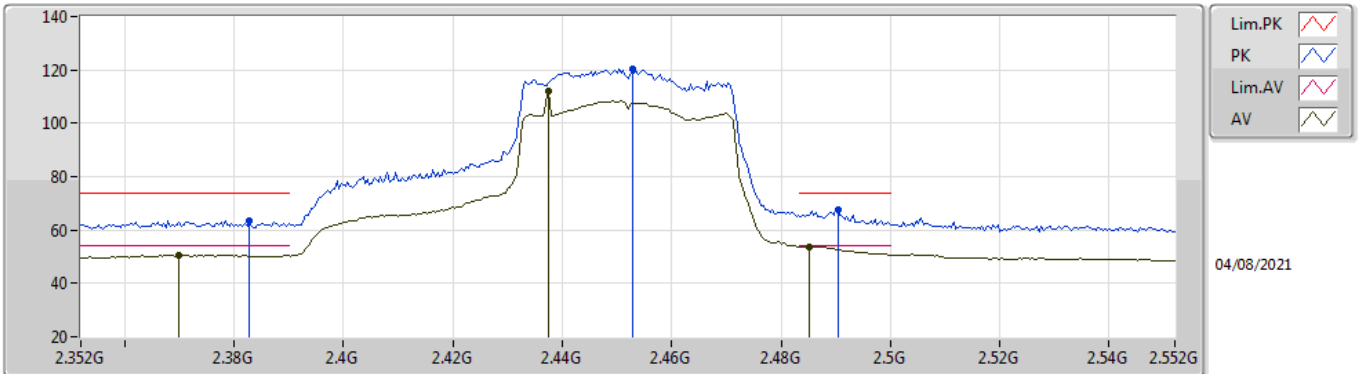


EUT Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87406G	47.26	74.00	-26.74	43.23	3	Horizontal	178	2.86	-	31.05	5.00	32.02
AV	4.87378G	39.73	54.00	-14.27	35.70	3	Horizontal	178	2.86	-	31.05	5.00	32.02

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

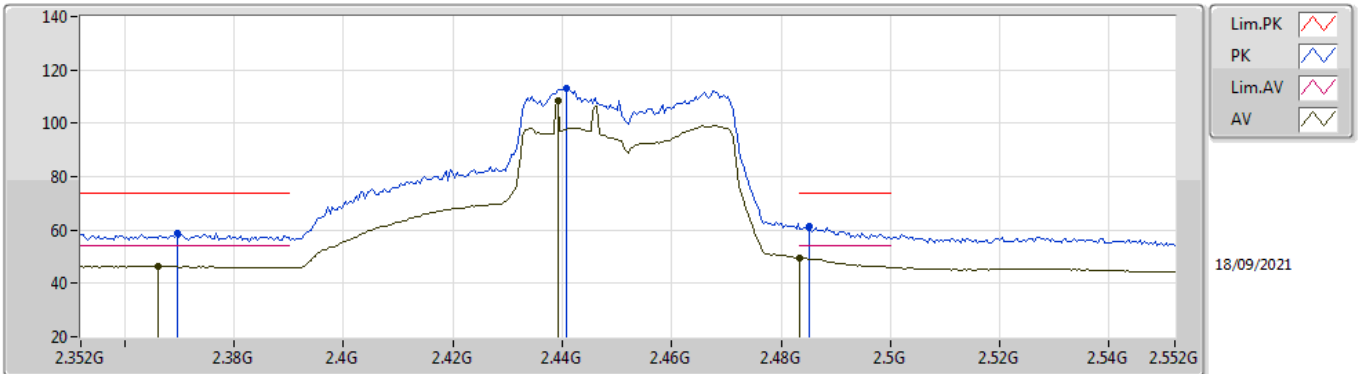


EUT_Y_4TX
Setting 84
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3828G	63.53	74.00	-10.47	32.75	3	Vertical	168	1.74	-	28.37	2.41	-
AV	2.37G	50.53	54.00	-3.47	19.77	3	Vertical	168	1.74	-	28.34	2.42	-
PK	2.4528G	120.24	Inf	-Inf	89.40	3	Vertical	168	1.74	-	28.41	2.43	-
AV	2.4376G	112.03	Inf	-Inf	81.21	3	Vertical	168	1.74	-	28.40	2.42	-
PK	2.4904G	67.76	74.00	-6.24	36.75	3	Vertical	168	1.74	-	28.56	2.45	-
AV	2.4852G	53.83	54.00	-0.17	22.85	3	Vertical	168	1.74	-	28.54	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

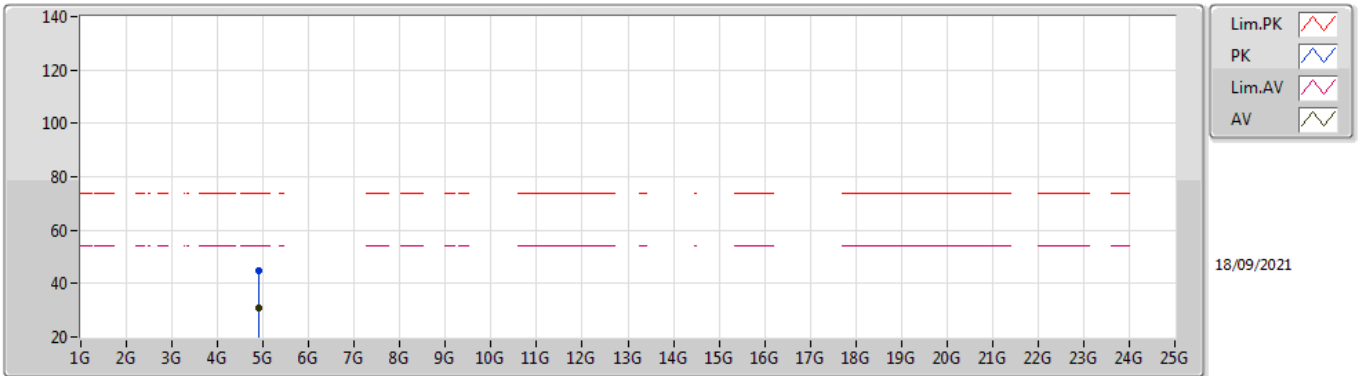


EUT_Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3696G	58.61	74.00	-15.39	27.93	3	Horizontal	127	1.85	-	27.64	3.04	-
AV	2.366G	46.48	54.00	-7.52	15.78	3	Horizontal	127	1.85	-	27.67	3.03	-
PK	2.4408G	113.14	Inf	-Inf	82.76	3	Horizontal	127	1.85	-	27.24	3.14	-
AV	2.4392G	108.24	Inf	-Inf	77.86	3	Horizontal	127	1.85	-	27.24	3.14	-
PK	2.4852G	61.34	74.00	-12.66	30.88	3	Horizontal	127	1.85	-	27.27	3.19	-
AV	2.4835G	49.40	54.00	-4.60	18.95	3	Horizontal	127	1.85	-	27.27	3.18	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

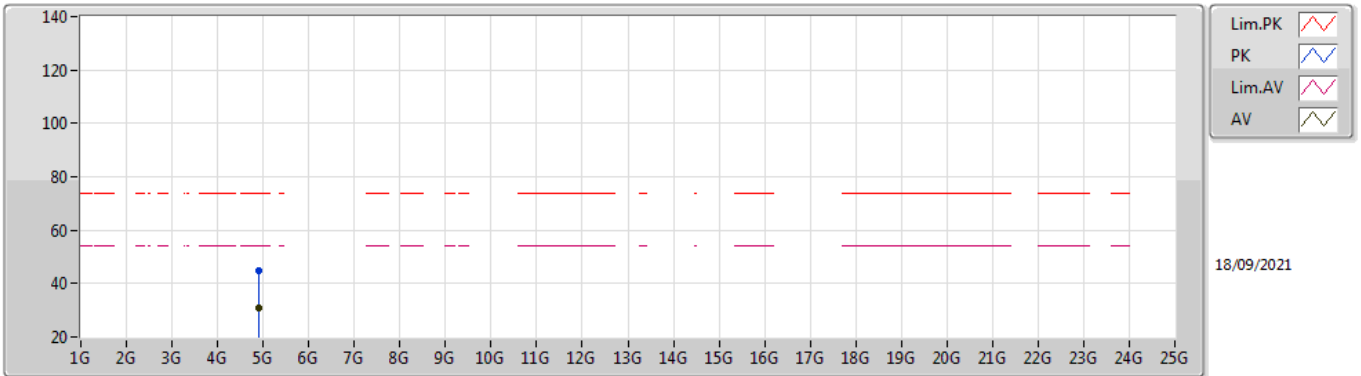


EUT Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.90508G	44.91	74.00	-29.09	40.78	3	Vertical	142	1.16	-	31.12	5.00	31.99	
AV	4.90224G	31.11	54.00	-22.89	26.99	3	Vertical	142	1.16	-	31.11	5.00	31.99	

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX



EUT Y_4TX
Setting 84
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90264G	44.63	74.00	-29.37	40.51	3	Horizontal	196	2.84	-	31.11	5.00	31.99
AV	4.899G	31.07	54.00	-22.93	26.96	3	Horizontal	196	2.84	-	31.10	5.00	31.99

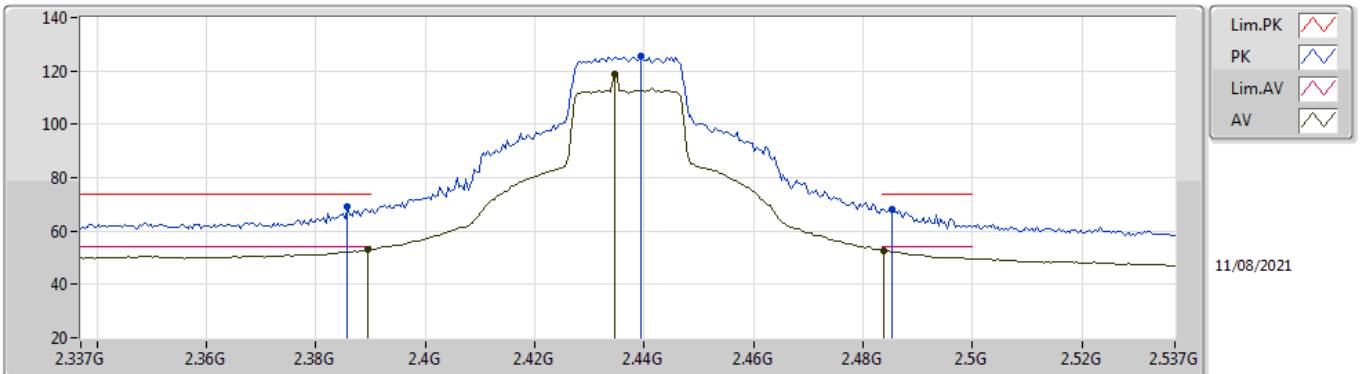


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	Pass	AV	2.3894G	53.00	54.00	-1.00	3	Vertical	194	1.74	-

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

2437MHz_TX

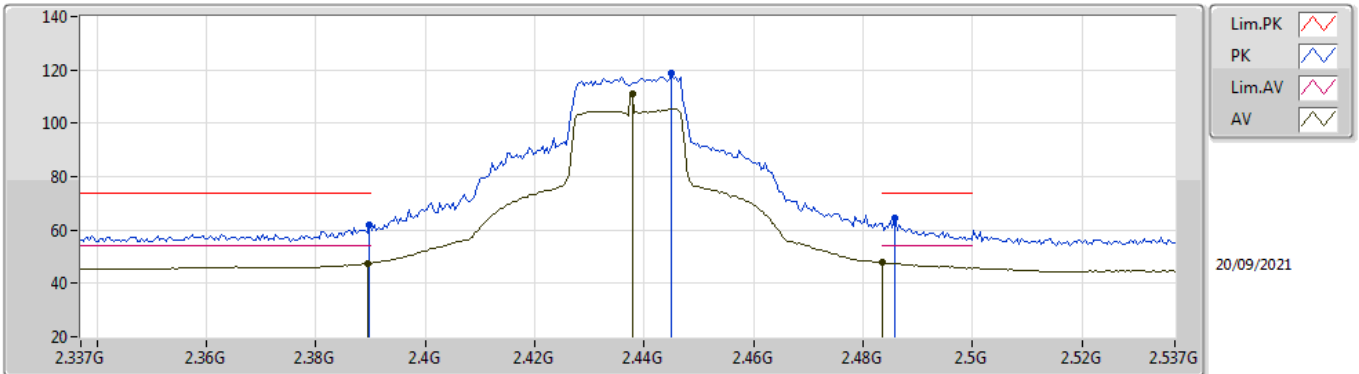


EUT Y_4TX
Setting 100
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	69.07	74.00	-4.93	38.34	3	Vertical	194	1.74	-	27.66	3.07	-
AV	2.3894G	53.00	54.00	-1.00	22.28	3	Vertical	194	1.74	-	27.64	3.08	-
PK	2.4394G	125.62	Inf	-Inf	94.96	3	Vertical	194	1.74	-	27.52	3.14	-
AV	2.4346G	118.88	Inf	-Inf	88.22	3	Vertical	194	1.74	-	27.53	3.13	-
PK	2.4854G	68.18	74.00	-5.82	37.56	3	Vertical	194	1.74	-	27.43	3.19	-
AV	2.4838G	52.58	54.00	-1.42	21.97	3	Vertical	194	1.74	-	27.43	3.18	-

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

2437MHz_TX

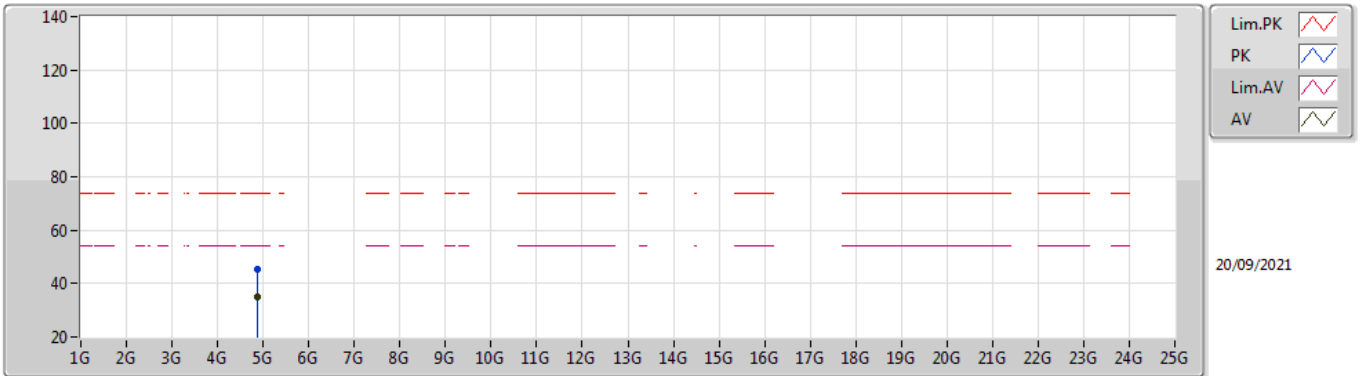


EUT_Y_4TX
Setting 100
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	62.11	74.00	-11.89	31.55	3	Horizontal	319.3	2.02	-	27.48	3.08	-
AV	2.3894G	47.61	54.00	-6.39	17.05	3	Horizontal	319.3	2.02	-	27.48	3.08	-
PK	2.445G	119.05	Inf	-Inf	88.68	3	Horizontal	319.3	2.02	-	27.22	3.15	-
AV	2.4378G	111.04	Inf	-Inf	80.65	3	Horizontal	319.3	2.02	-	27.25	3.14	-
PK	2.4858G	64.34	74.00	-9.66	33.88	3	Horizontal	319.3	2.02	-	27.27	3.19	-
AV	2.4835G	47.70	54.00	-6.30	17.25	3	Horizontal	319.3	2.02	-	27.27	3.18	-

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

2437MHz_TX

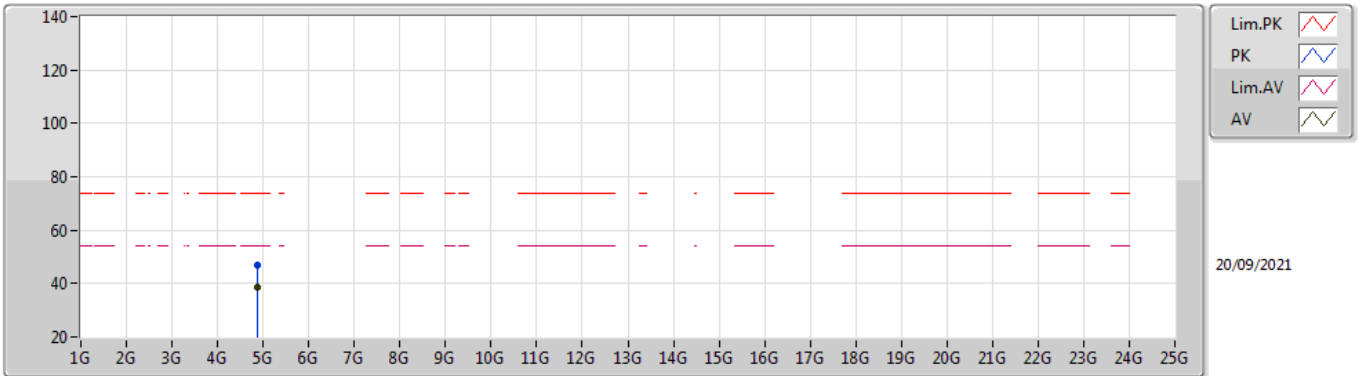


EUT Y_4TX
Setting 100
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.87412G	45.34	74.00	-28.66	41.31	3	Vertical	238	1.69	-	31.05	5.00	32.02	
AV	4.87416G	34.85	54.00	-19.15	30.82	3	Vertical	238	1.69	-	31.05	5.00	32.02	

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

2437MHz_TX



EUT Y_4TX
Setting 100
06-F-S-5

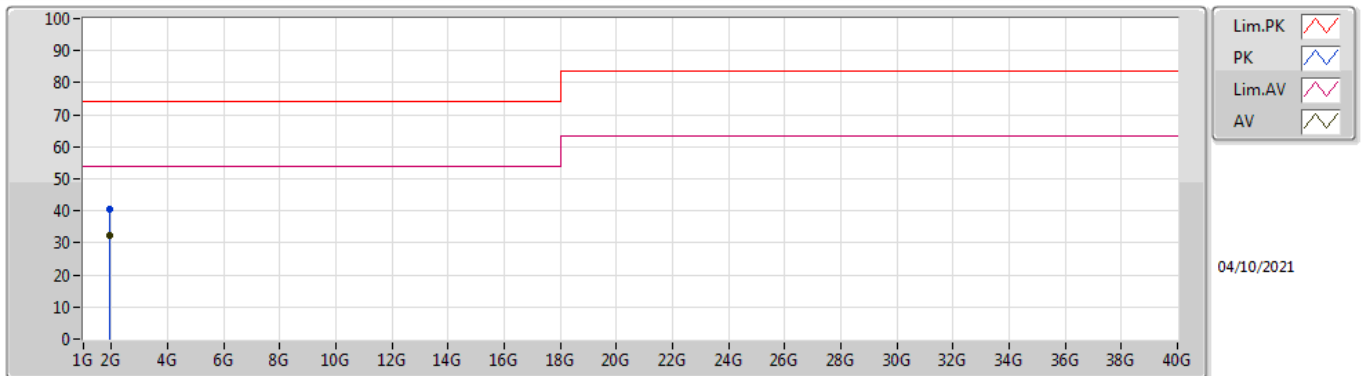
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.87396G	46.92	74.00	-27.08	42.89	3	Horizontal	188	1.80	-	31.05	5.00	32.02	
AV	4.87404G	38.51	54.00	-15.49	34.48	3	Horizontal	188	1.80	-	31.05	5.00	32.02	



Summary

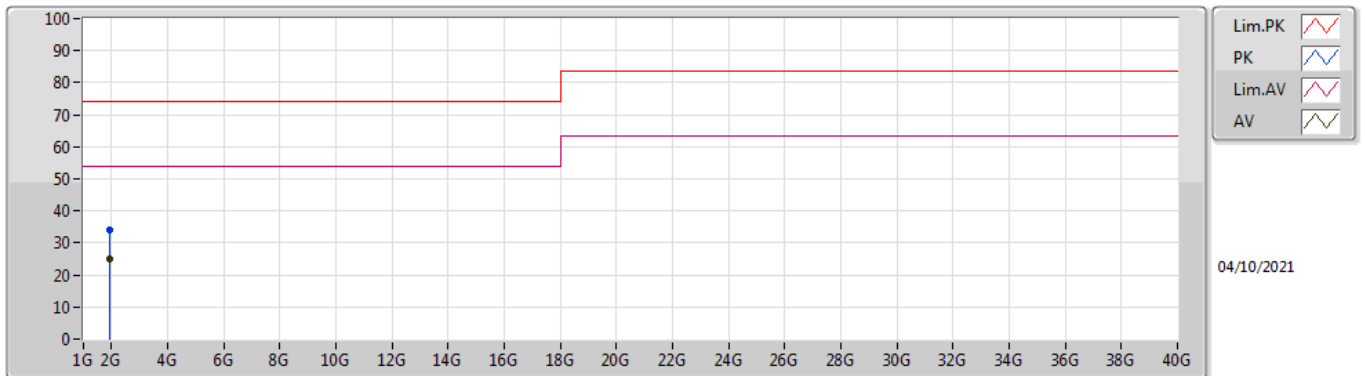
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.91153G	32.42	54.00	-21.58	Vertical

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.9182G	40.36	74.00	-33.64	-7.51	3	Vertical	199	1.78	-	47.87	25.97	3.72	37.20
AV	1.91153G	32.42	54.00	-21.58	-7.55	3	Vertical	199	1.78	"Worst"	39.97	25.95	3.71	37.21

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.92005G	34.15	74.00	-39.85	-7.50	3	Horizontal	208	1.00	-	41.65	25.98	3.72	37.20
AV	1.91523G	25.20	54.00	-28.80	-7.53	3	Horizontal	208	1.00	"Worst"	32.73	25.96	3.72	37.21