

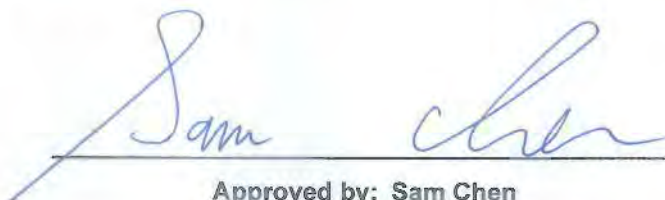


RADIO TEST REPORT

FCC ID : G954981X
Equipment : DOCSIS Cable Gateway
Brand Name : Technicolor
Model Name : CGM4981COM, CGM4981COX
Applicant : Technicolor Connected Home USA LLC
4855 Peachtree Industrial Blvd. Norcross, GA
30092
Manufacturer : Technicolor Connected Home USA LLC
4855 Peachtree Industrial Blvd. Norcross, GA
30092
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 14, 2021, and testing was started from Aug. 30, 2021 and completed on Sep. 17, 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: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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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 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 Name	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4 GHz	WLAN 5 GHz	WLAN 6E	Zigbee	Bluetooth					
1	1	4	-	-	-	Airgain	N03TCAFB-PK1-B165U	PCB	I-PEX	Note 1
2	2	3	-	-	-	Airgain	N03TCAFE-PK1-G140U	PCB	I-PEX	
3	3	2	-	-	-	Airgain	N03TCAFN-PK1-R150U	PCB	I-PEX	
4	4	1	-	-	-	Airgain	N03TCAFG-PK1-A230U	PCB	I-PEX	
5	-	-	1	-	-	Airgain	N06TCAFC-PK1-B105U	PCB	I-PEX	
6	-	-	2	-	-	Airgain	N06TCAFH-PK1-G200U	PCB	I-PEX	
7	-	-	3	-	-	Airgain	N06TCAFJ-PK1-R150U	PCB	I-PEX	
8	-	-	4	1	-	Airgain	N04TCAFD-PK1-A150U	PCB	I-PEX	
9	-	-	-	2	-	Airgain	N01TCAFM-PK1-W230U	PCB	I-PEX	
10	-	-	-	-	1	Airgain	N01TCAFM-PK1-W190U	PCB	I-PEX	

Note1:

Ant.	Port					Antenna Gain (dBi)							
	WLAN 2.4 GHz	WLAN 5GHz	WLAN 6E	Zigbee	Bluetooth	WLAN 2.4 GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3	WLAN 6E	Zigbee	Bluetooth
1	1	4	-	-	-	2.7	2.59	2.85	2.34	3.5	-	-	-
2	2	3	-	-	-	3.12	2.05	2.62	2.3	3.12	-	-	-
3	3	2	-	-	-	2.57	2.71	1.98	1.87	3.08	-	-	-
4	4	1	-	-	-	2.2	2.18	2.7	2.08	2.02	-	-	-
5	-	-	1	-	-	-	-	-	-	-	3.7	-	-
6	-	-	2	-	-	-	-	-	-	-	4.1	-	-
7	-	-	3	-	-	-	-	-	-	-	3.7	-	-
8	-	-	4	1	-	-	-	-	-	-	5.5	4.8	-
9	-	-	-	2	-	-	-	-	-	-	-	2.5	-
10	-	-	-	-	1	-	-	-	-	-	-	-	4.1



Directional Gain (dBi)					
Band (MHz)	2400-2483.5	5150-5250	5250-5350	5470-5725	5725-5850
Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	2.7	2.59	2.85	2.34	3.5
Ant. 2 Max Gain (dBi)	3.12	2.05	2.62	2.3	3.12
Ant. 3 Max Gain (dBi)	2.57	2.71	1.98	1.87	3.08
Ant. 4 Max Gain (dBi)	2.2	2.18	2.7	2.08	2.02
Max Gain (dBi)	3.12	2.71	2.85	2.34	3.5
DG [1SS] (dBi)	5.45	4.96	3.99	4.1	4.82
DG [2SS] (dBi)	3.12	2.71	2.85	2.34	3.5
DG [4SS] (dBi)	0.1	-0.52	-0.64	-1.23	-0.43

Note2: The above information was declared by manufacturer.

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

The EUT enables WLAN 2.4GHz, 5GHz UNII 1, UNII 3, Zigbee and Bluetooth function only.

For WLAN 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax mode (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 WLAN 5GHz function:

For IEEE 802.11a/n/ac/ax mode (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 WLAN 6E function:

For IEEE 802.11ax mode (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 Zigbee function (1TX/1RX):

The EUT supports the Ant.8 and Ant.9 with TX and RX diversity functions.

Both Ant.8 (Port 1) and Ant.9 (Port 2) support transmit and receive functions, but only one of them will be used at one time.

All test results will be recorded in the report.

For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.952	0.21	12.425m	100
802.11g	0.948	0.23	2.065m	1k
802.11ax HEW20	0.984	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20-BF	0.975	0.11	4.368m	300
802.11ax HEW40	0.962	0.17	780.625u	3k
802.11ax HEW40-BF	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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 and n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Mtool (ver.3.2.1.4) \ DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model Name	Description
CGM4981COM	All the models are identical, the difference model served as marketing strategy.
CGM4981COX	

Note 1: From the above models, model: CGM4981COM was selected as representative model for the test and its data was recorded in this report.

Note 2: 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 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	TH03-CB	Serway Li	22.1~22.7 / 73~76	Sep. 06, 2021~ Sep. 17, 2021
Radiated<1GHz	10CH01-CB	Peter Wu	23~24 / 58~59	Sep. 16, 2021
Radiated>1GHz	03CH02-CB	Brian Sun	24.4~25.5 / 55-58	Aug. 30, 2021~ Sep. 17, 2021
Radiated Co-Location	10CH01-CB	Brian Sun	23~24 / 58~59	Sep. 16, 2021
AC Conduction	CO01-CB	Peter Wu	21~23 / 55~57	Sep. 16, 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	Test Site No.	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	CO01-CB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	10CH01-CB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	10CH01-CB	Confidence levels of 95%
Radiated Emissions 1GHz ~ 40GHz	5.0 dB	10CH01-CB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	03CH02-CB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	03CH02-CB	Confidence levels of 95%
Conducted Emission	2.5 dB	TH03-CB	Confidence levels of 95%
Output Power Measurement	1.3 dB	TH03-CB	Confidence levels of 95%
Power Density Measurement	2.5 dB	TH03-CB	Confidence levels of 95%
Bandwidth Measurement	0.9%	TH03-CB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

<Non-beamforming Mode>

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	97
2437MHz	96
2462MHz	98
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	100
2437MHz	98
2462MHz	102
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	101
2437MHz	99
2462MHz	102
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	97
2437MHz	96
2452MHz	98

<Beamforming Mode>

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	101
2437MHz	99
2462MHz	99
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	97
2437MHz	96
2452MHz	98

Note: 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	Normal Link (WLAN) + CTX (Zigbee)+CTX (Bluetooth) - EUT + Adapter 1
2	Normal Link (WLAN) + CTX (Zigbee)+CTX (Bluetooth) - EUT + Adapter 2
3	Normal Link (WLAN) + CTX (Zigbee)+CTX (Bluetooth) - EUT + Adapter 3
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	Normal Link (WLAN) + CTX (Zigbee)+CTX (Bluetooth) - EUT + Adapter 1
2	Normal Link (WLAN) + CTX (Zigbee)+CTX (Bluetooth) - EUT + Adapter 2
3	Normal Link (WLAN) + CTX (Zigbee)+CTX (Bluetooth) - EUT + Adapter 3
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	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	WLAN 2.4GHz+WLAN 5GHz+ Zigbee (Ant.9) +Bluetooth
2	WLAN 2.4GHz+WLAN 5GHz+ Zigbee (Ant.8) +Bluetooth
Refer to Sporton Test Report No.: FA171403 for Co-location RF Exposure Evaluation.	

Note1: The manufacturer declares that the Type-C port can not be used by end-user. It is generally used for updating FW.

Note2: The EUT can only be used in Y axis position.



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 WLAN module and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	AcBel	ADK002	INPUT: 100-120V~50/60Hz, 1.5A OUTPUT: 12.0V, 4.6A
Adapter 2	Delta	ADH-55AW BK	INPUT: 100-120V~50/60Hz, 1.2A OUTPUT: 12.0V, 4.6A
Adapter 3	Netbit	NBC56A120460VU	INPUT: 100-120V~50/60Hz, 1.5A OUTPUT: 12.0V, 4.6A



2.5 Support Equipment

For AC Conduction and Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A
D	Phone1	SAMPO	HT-B 907WL	N/A
E	Phone2	SAMPO	HT-B 907WL	N/A
F	Terminal system	HUAWEI	SmartAX ma5633	N/A
G	Server	HUAWEI	N/A	N/A
H	Terminal system NB	DELL	INSPIRON 3576	N/A
I	2.5G PC	DELL	T3400	N/A
J	6G NB	DELL	AX210	N/A
K	MOCA	N/A	N/A	N/A
L	MOCA NB	DELL	E6430	N/A
N	Type-C Dongle	Transcend	16GB	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

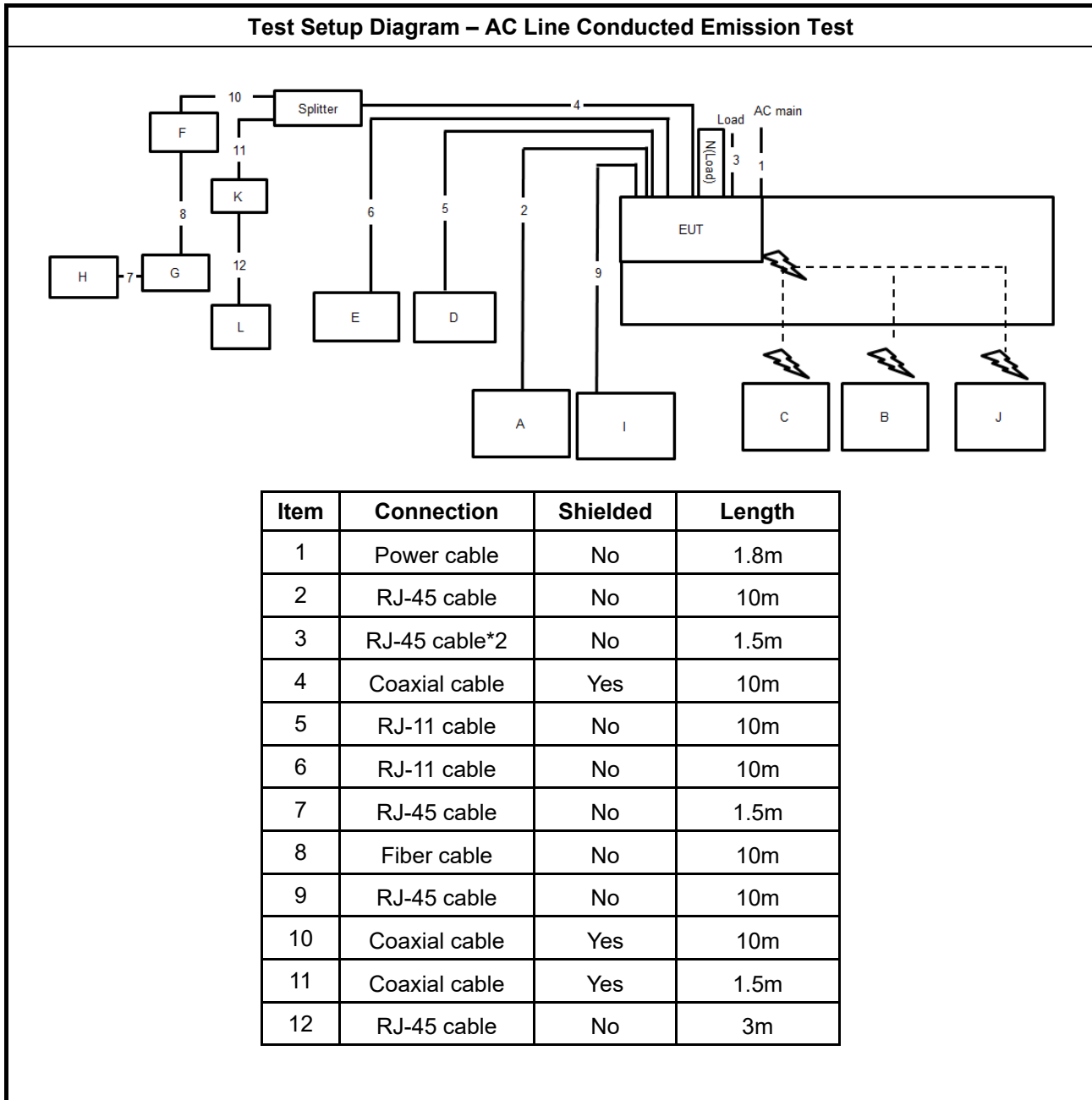
For Beamforming mode:

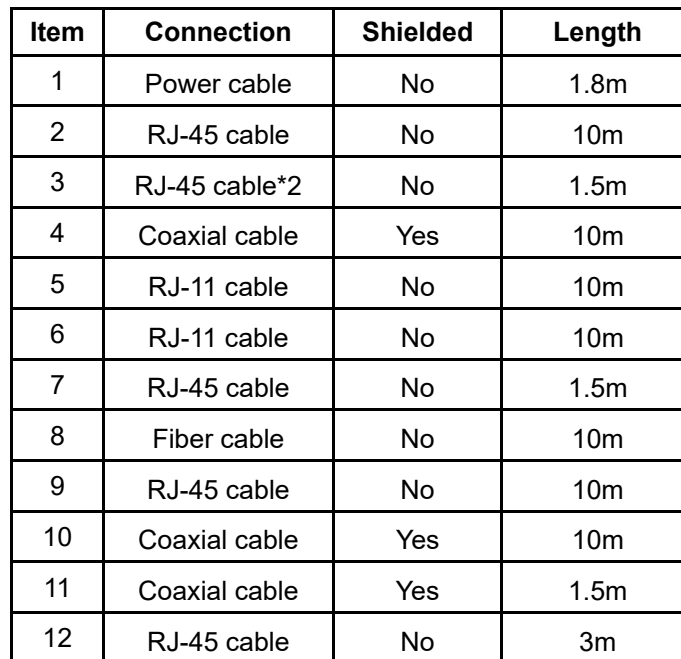
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	WLAN module	Intel	AX210NGW	PD9AX210NG
C	Notebook	DELL	E4300	N/A

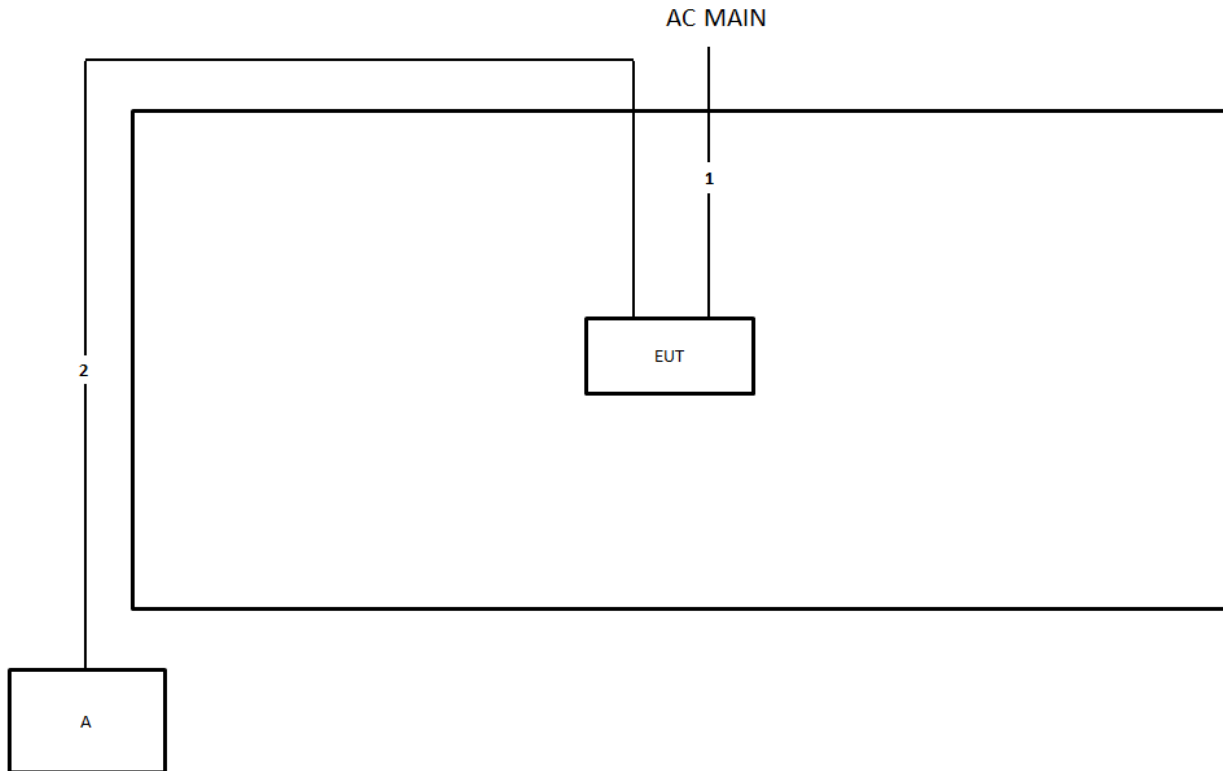
For RF Conducted:

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

2.6 Test Setup Diagram

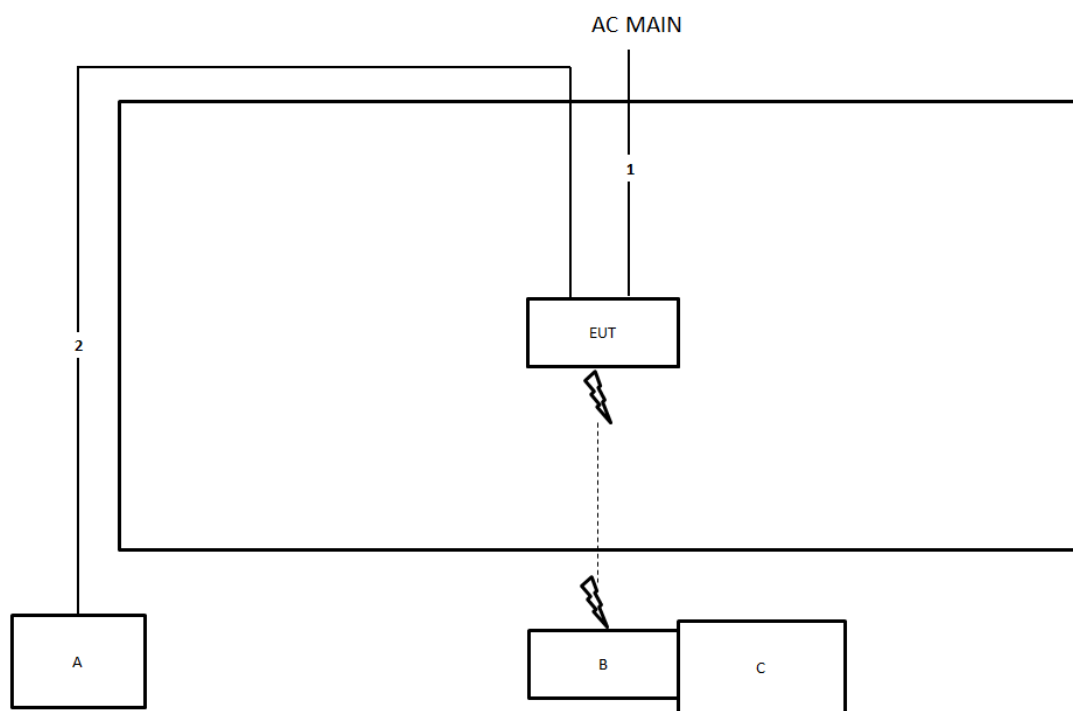




Test Setup Diagram - Radiated Test > 1GHz / Non-beamforming mode


Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m

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



Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

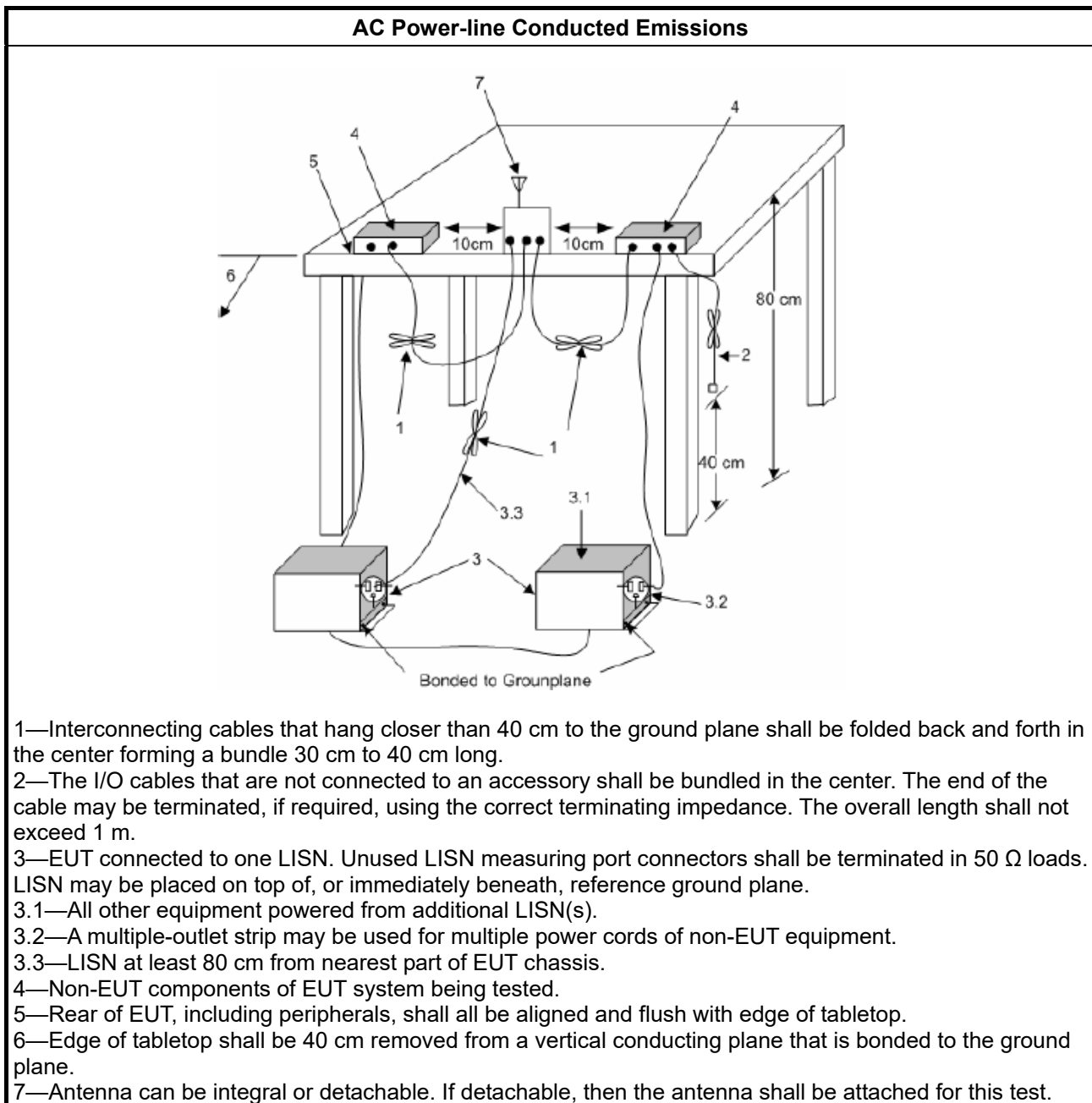
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ 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.

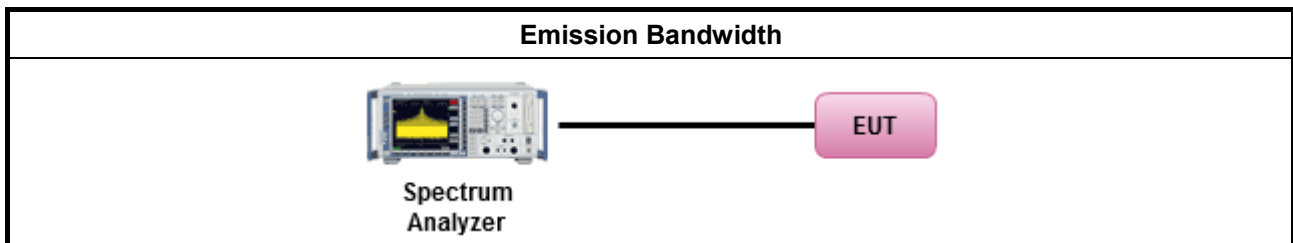
3.2.2 Measuring Instruments

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.	

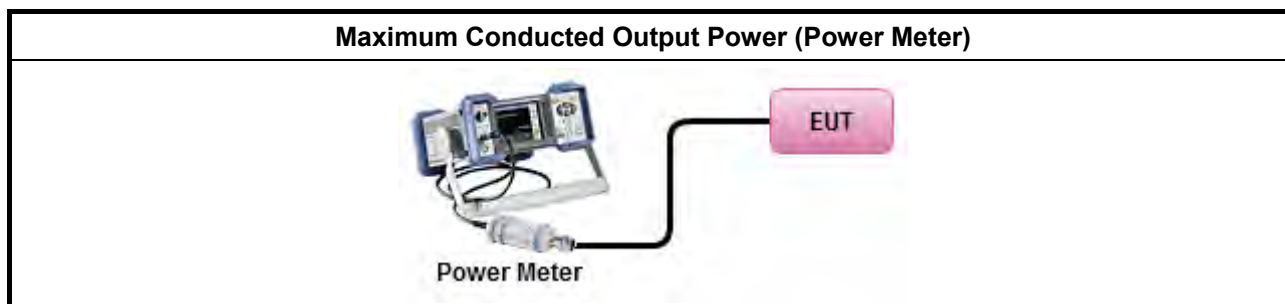
3.3.2 Measuring Instruments

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

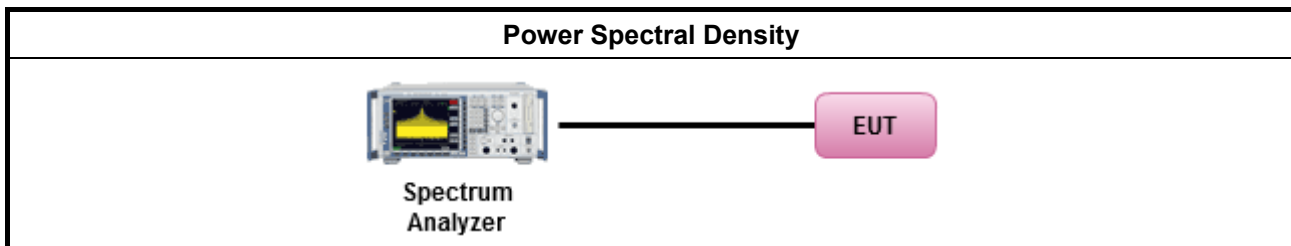
3.4.2 Measuring Instruments

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.	

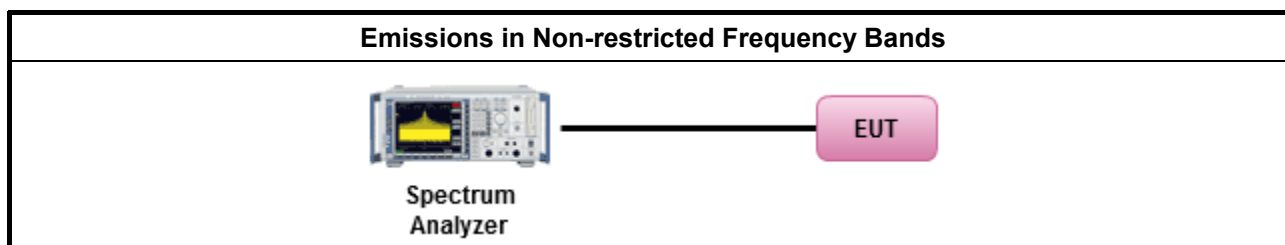
3.5.2 Measuring Instruments

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

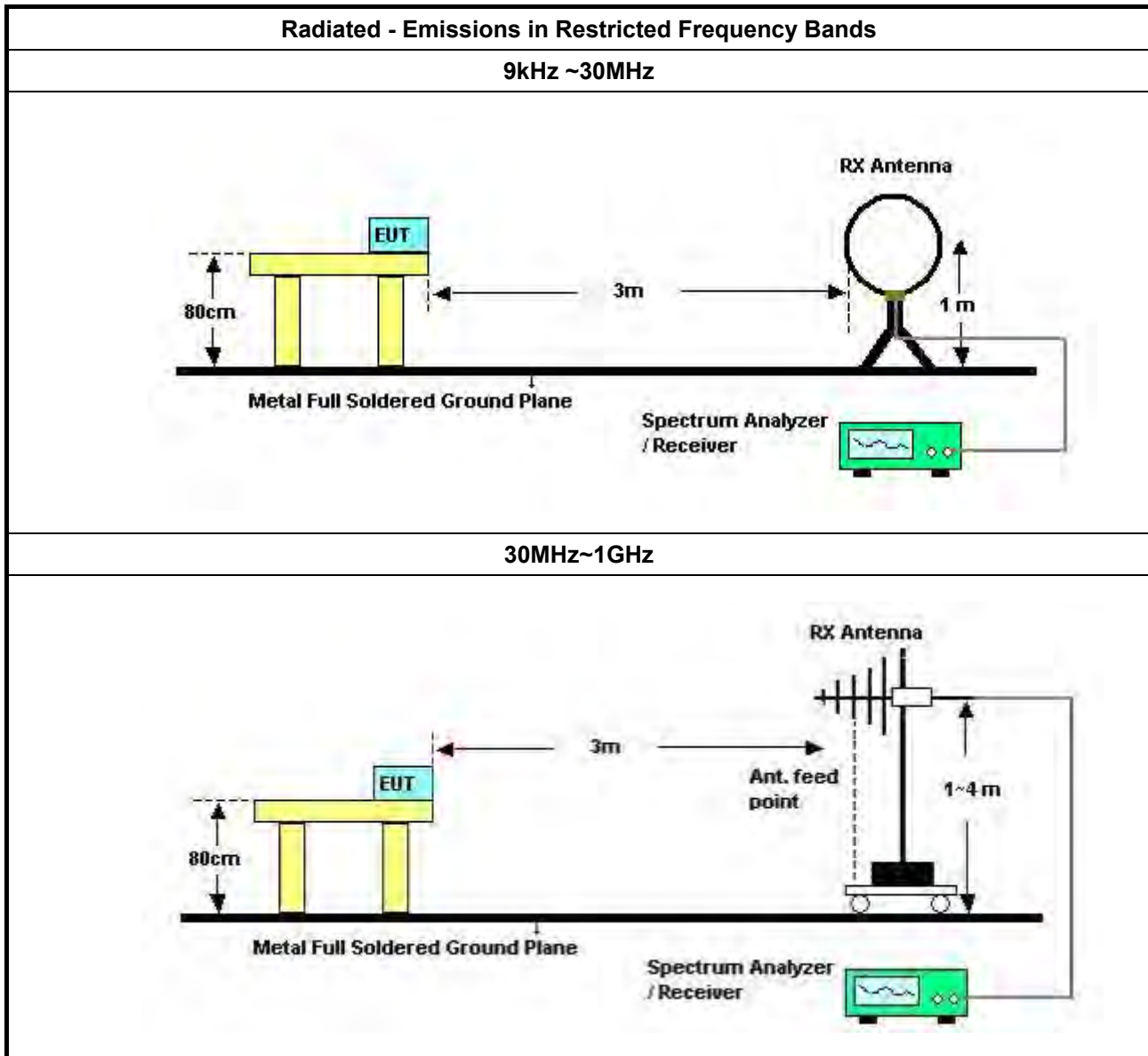
Refer a test equipment and calibration data table in this test report.

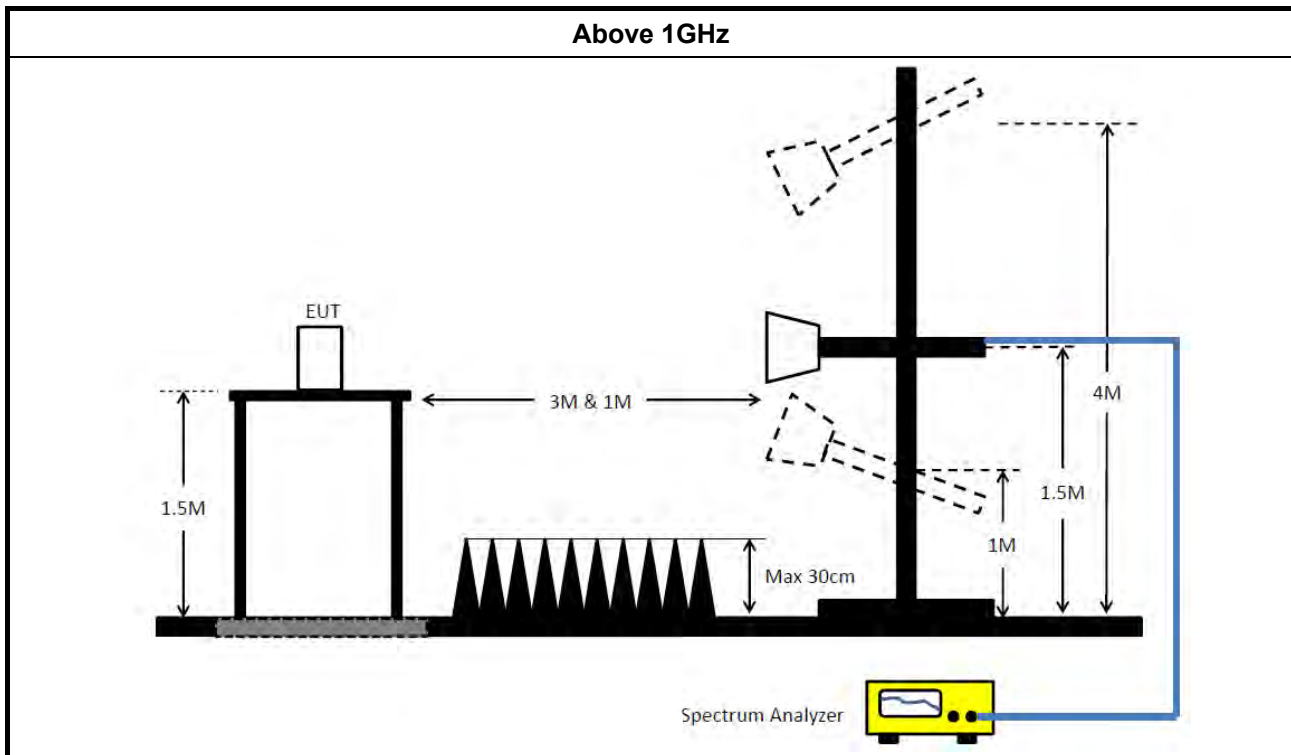


3.6.3 Test Procedures

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)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 28, 2021	Jan. 27, 2022	Radiation (10CH01-CB)
10m Semi Anechoic Chamber VSWR	TDK	SAC-10M	10CH01-CB	1GHz ~18GHz 3m	Mar. 12, 2021	Mar. 11, 2022	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 11, 2021	Mar. 10, 2022	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 11, 2021	Mar. 10, 2022	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 20, 2020	Oct. 19, 2021	Radiation (10CH01-CB)
High Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 20, 2020	Oct. 19, 2021	Radiation (10CH01-CB)
Bilog Antenna with 6dB Attenuator	Chase & EMCI	CBL6111A &N-6-06	1543 &AT-N0609	30MHz ~ 1GHz	Jul. 01, 2021	Jun. 30, 2022	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (10CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (10CH01-CB)
Horn Antenna	ESCO	3117	00081283	1GHz ~ 18GHz	Nov. 23, 2020	Nov. 22, 2021	Radiation (10CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (10CH01-CB)
Amplifier	Agilent	8449B	3008A02660	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (10CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (10CH01-CB)
CABLE (1~40G)	TITAN	T318E	high cable-02	1GHz ~ 40GHz	Mar. 17, 2021	Mar. 16, 2022	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (10CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (10CH01-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)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 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)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 31, 2020	Dec. 30, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

NCR means Non-Calibration required.



Conducted Emissions at Powerline

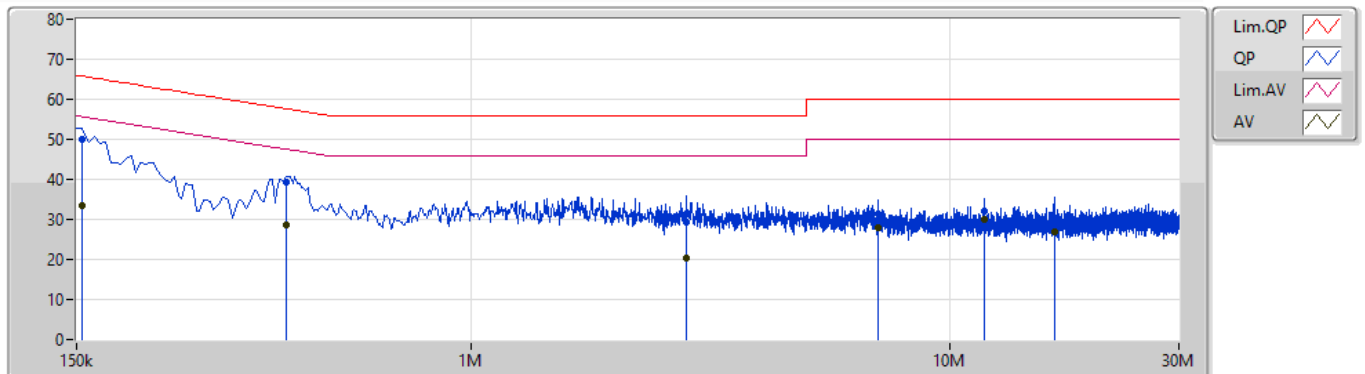
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	52.16	66.00	-13.84	Neutral

Mode 1

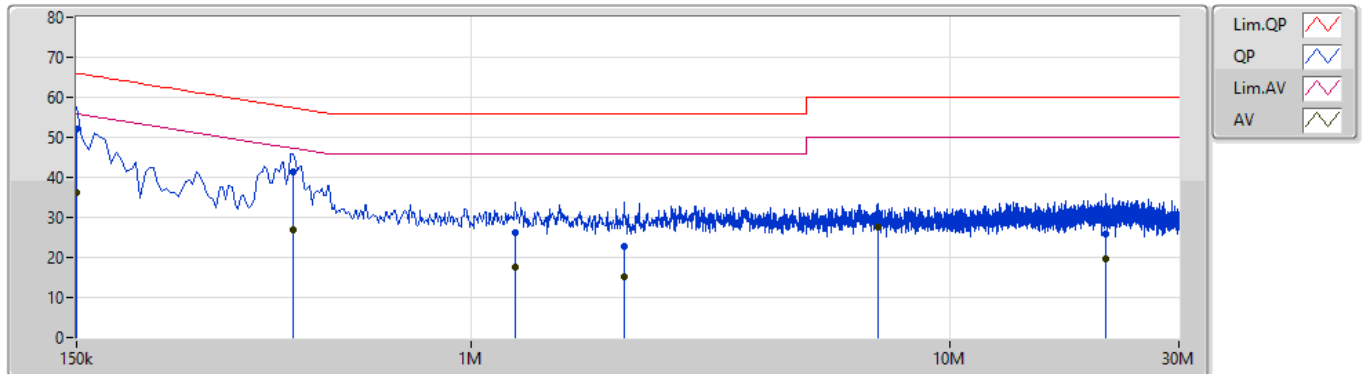
16/09/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	49.95	65.75	-15.80	9.89	Line	"Worst"	40.06	0.04	0.04	9.81			
AV	154.5k	33.31	55.75	-22.44	9.89	Line	-	23.42	0.04	0.04	9.81			
QP	411k	39.44	57.63	-18.19	9.90	Line	-	29.54	0.04	0.04	9.82			
AV	411k	28.63	47.63	-19.00	9.90	Line	-	18.73	0.04	0.04	9.82			
QP	2.805M	29.43	56.00	-26.57	10.04	Line	-	19.39	0.11	0.09	9.84			
AV	2.805M	20.31	46.00	-25.69	10.04	Line	-	10.27	0.11	0.09	9.84			
QP	7.058M	31.41	60.00	-28.59	10.22	Line	-	21.19	0.19	0.14	9.89			
AV	7.058M	27.95	50.00	-22.05	10.22	Line	-	17.73	0.19	0.14	9.89			
QP	11.76M	31.99	60.00	-28.01	10.30	Line	-	21.69	0.24	0.16	9.90			
AV	11.76M	29.84	50.00	-20.16	10.30	Line	-	19.54	0.24	0.16	9.90			
QP	16.467M	29.25	60.00	-30.75	10.42	Line	-	18.83	0.29	0.19	9.94			
AV	16.467M	26.77	50.00	-23.23	10.42	Line	-	16.35	0.29	0.19	9.94			

Mode 1

16/09/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	52.16	66.00	-13.84	9.88	Neutral	"Worst"	42.28	0.03	0.04	9.81			
AV	150k	36.07	56.00	-19.93	9.88	Neutral	-	26.19	0.03	0.04	9.81			
QP	424.5k	41.47	57.36	-15.89	9.89	Neutral	-	31.58	0.03	0.04	9.82			
AV	424.5k	26.80	47.36	-20.56	9.89	Neutral	-	16.91	0.03	0.04	9.82			
QP	1.235M	26.37	56.00	-29.63	9.94	Neutral	-	16.43	0.06	0.05	9.83			
AV	1.235M	17.54	46.00	-28.46	9.94	Neutral	-	7.60	0.06	0.05	9.83			
QP	2.085M	22.61	56.00	-33.39	9.96	Neutral	-	12.65	0.07	0.07	9.82			
AV	2.085M	15.01	46.00	-30.99	9.96	Neutral	-	5.05	0.07	0.07	9.82			
QP	7.058M	30.89	60.00	-29.11	10.19	Neutral	-	20.70	0.16	0.14	9.89			
AV	7.058M	27.45	50.00	-22.55	10.19	Neutral	-	17.26	0.16	0.14	9.89			
QP	21.174M	26.02	60.00	-33.98	10.55	Neutral	-	15.47	0.31	0.24	10.00			
AV	21.174M	19.52	50.00	-30.48	10.55	Neutral	-	8.97	0.31	0.24	10.00			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	7.525M	10.295M	10M3G1D	7M	10.17M
802.11g_Nss1,(6Mbps)_4TX	16.35M	16.942M	16M9D1D	16.3M	16.792M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.95M	19.065M	19M1D1D	18.425M	18.991M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.75M	38.081M	38M1D1D	36.75M	37.831M

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

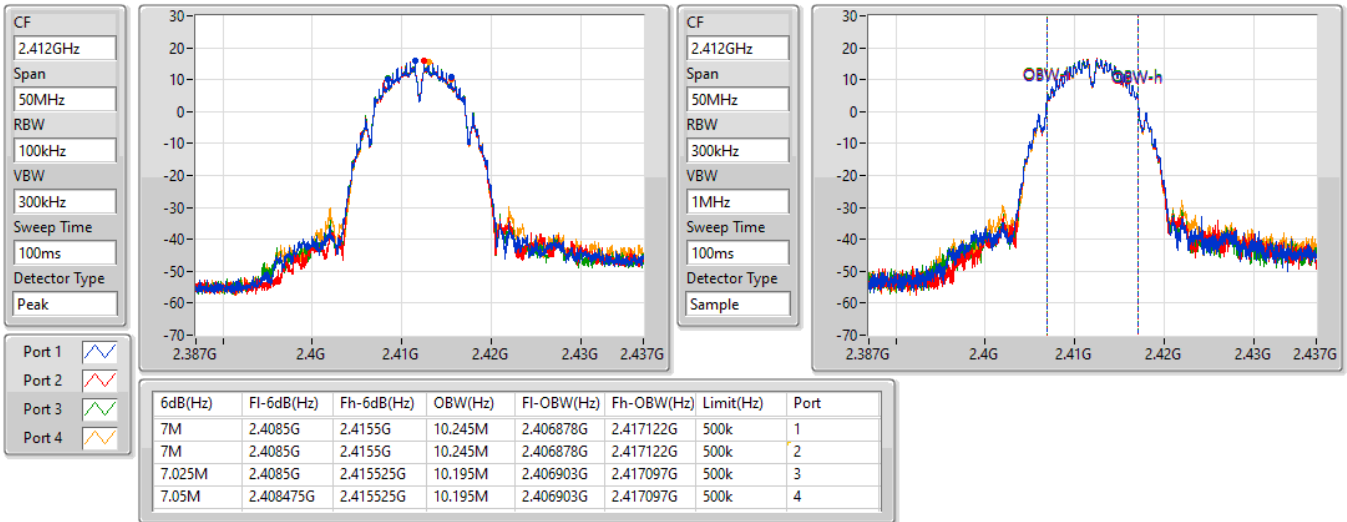
Result

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	7M	10.245M	7M	10.245M	7.025M	10.195M	7.05M	10.195M
2437MHz	Pass	500k	7.025M	10.295M	7.05M	10.245M	7M	10.27M	7.05M	10.245M
2462MHz	Pass	500k	7.025M	10.22M	7.525M	10.245M	7.5M	10.17M	7.525M	10.22M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.3M	16.917M	16.35M	16.867M	16.325M	16.892M	16.35M	16.867M
2437MHz	Pass	500k	16.325M	16.867M	16.325M	16.817M	16.325M	16.792M	16.35M	16.917M
2462MHz	Pass	500k	16.3M	16.892M	16.325M	16.942M	16.325M	16.817M	16.3M	16.842M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.95M	19.04M	18.7M	19.015M	18.9M	19.04M	18.8M	19.015M
2437MHz	Pass	500k	18.9M	19.04M	18.75M	19.065M	18.85M	19.015M	18.875M	19.065M
2462MHz	Pass	500k	18.575M	18.991M	18.7M	19.04M	18.425M	19.015M	18.75M	19.015M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.7M	38.031M	36.75M	37.931M	37.2M	37.931M	37.7M	37.881M
2437MHz	Pass	500k	37.75M	38.031M	37.4M	38.081M	37.6M	38.031M	37.65M	38.081M
2452MHz	Pass	500k	37.6M	37.831M	37M	37.881M	36.9M	37.881M	37.3M	37.831M

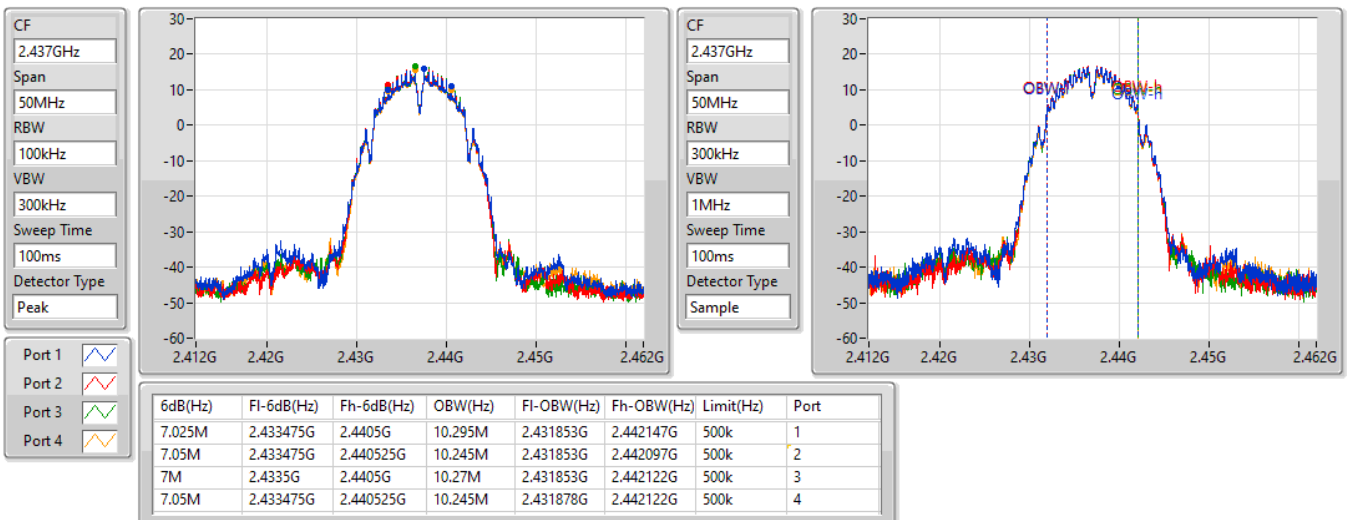
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_4TX
EBW
2412MHz

06/09/2021

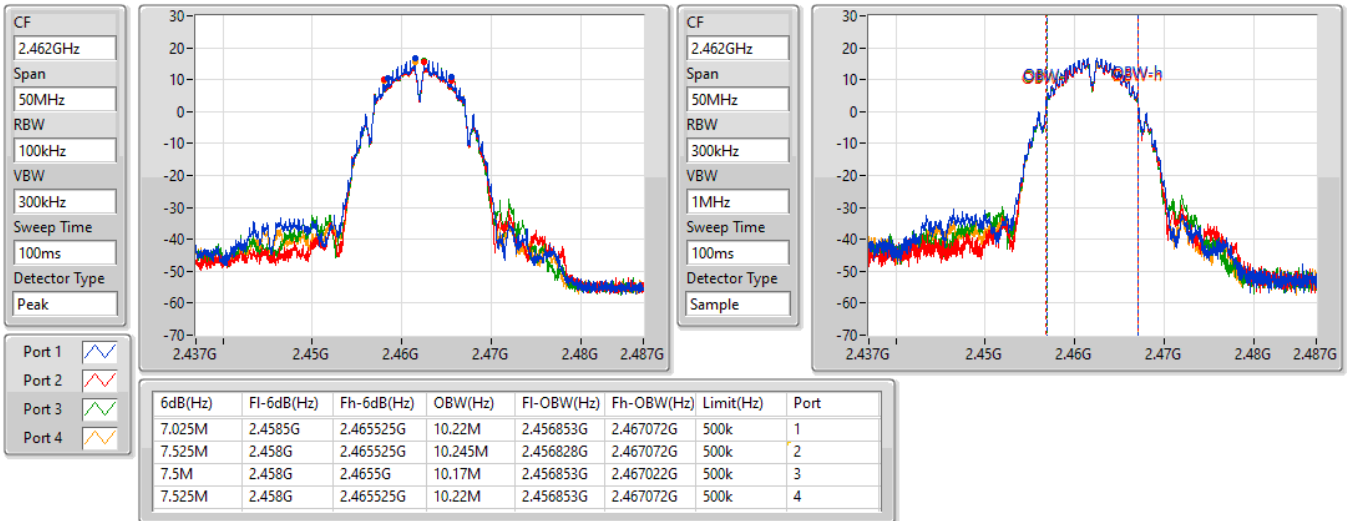

802.11b_Nss1,(1Mbps)_4TX
EBW
2437MHz

06/09/2021

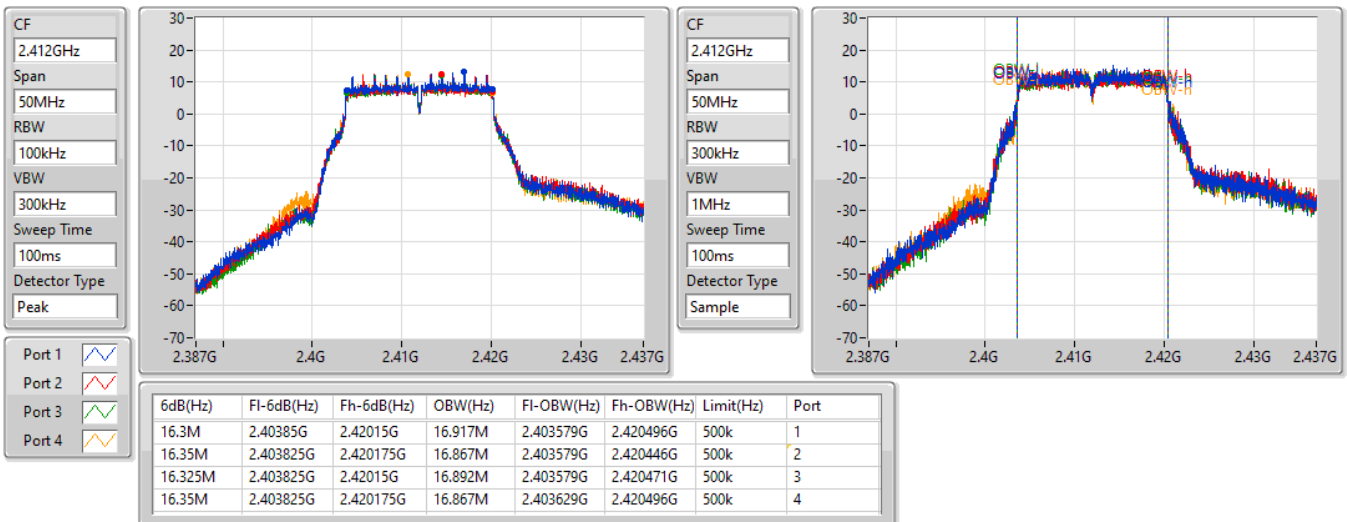


802.11b_Nss1,(1Mbps)_4TX
EBW
2462MHz

06/09/2021

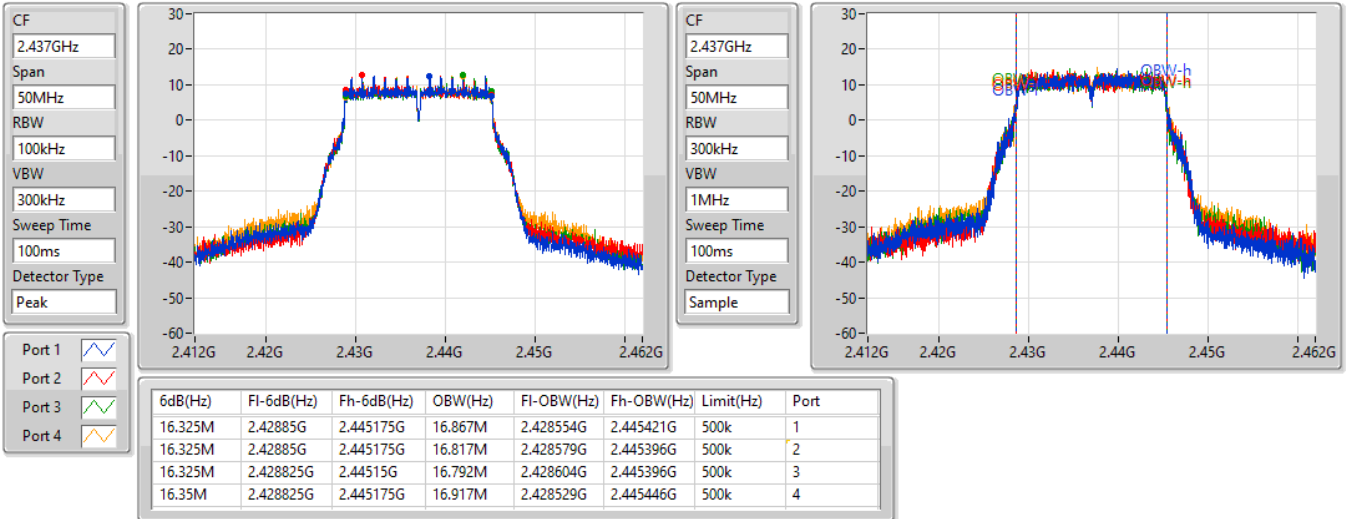

802.11g_Nss1,(6Mbps)_4TX
EBW
2412MHz

06/09/2021

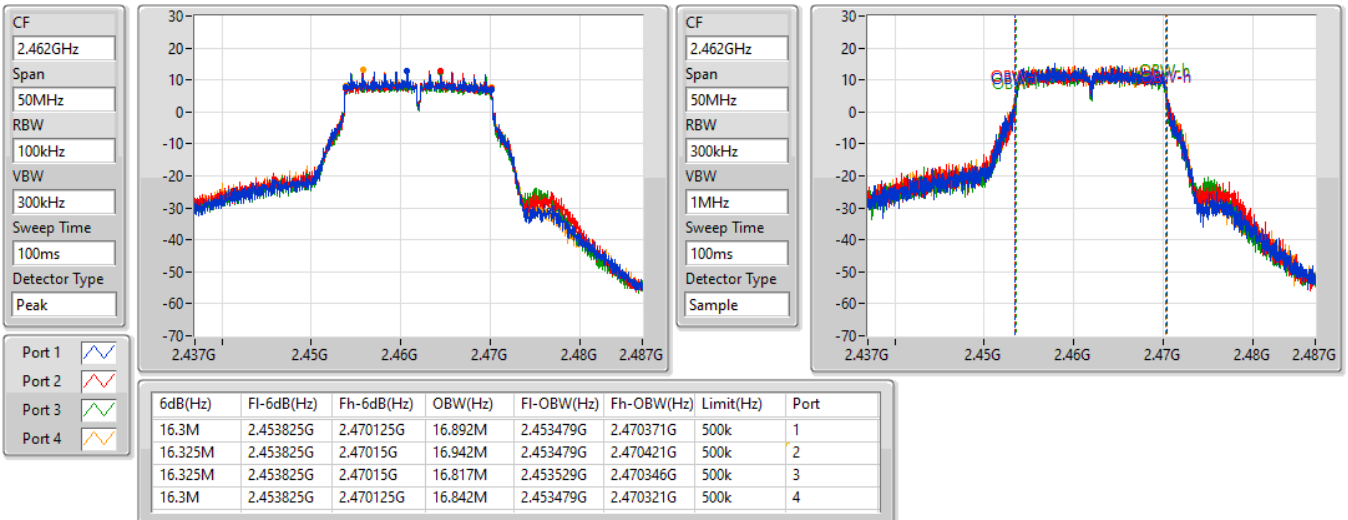


802.11g_Nss1,(6Mbps)_4TX
2437MHz

06/09/2021

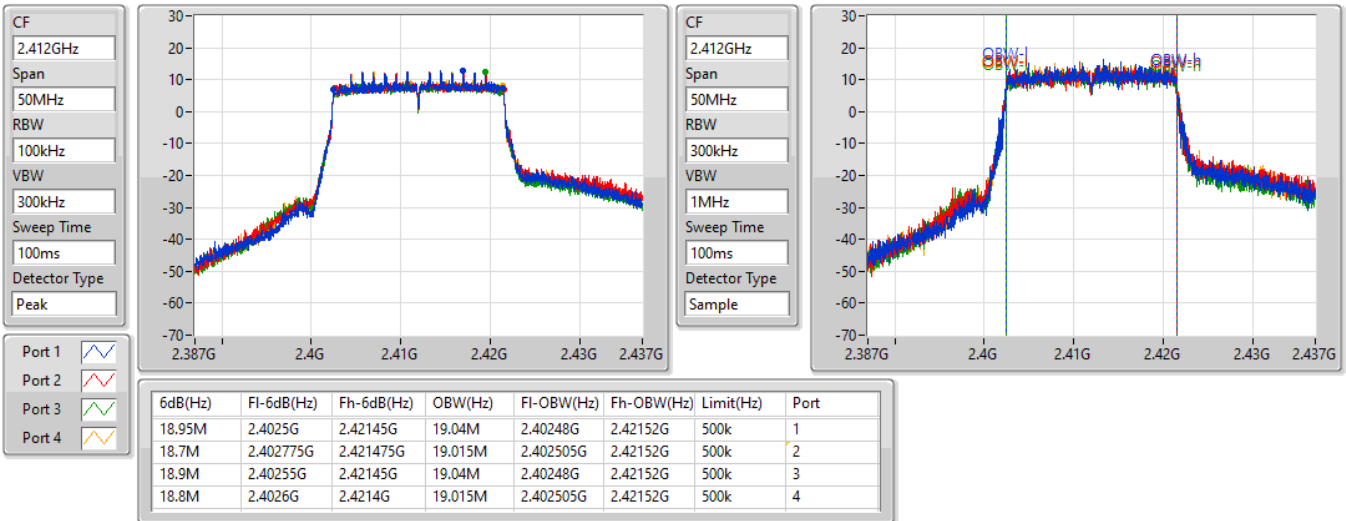

802.11g_Nss1,(6Mbps)_4TX
2462MHz

06/09/2021

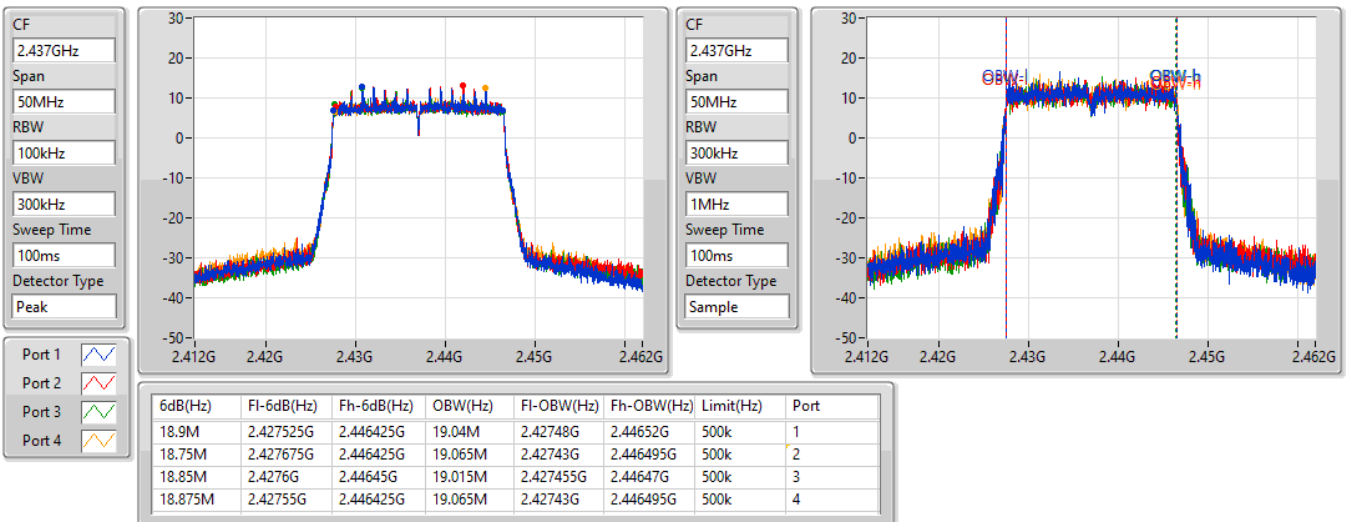


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2412MHz

06/09/2021

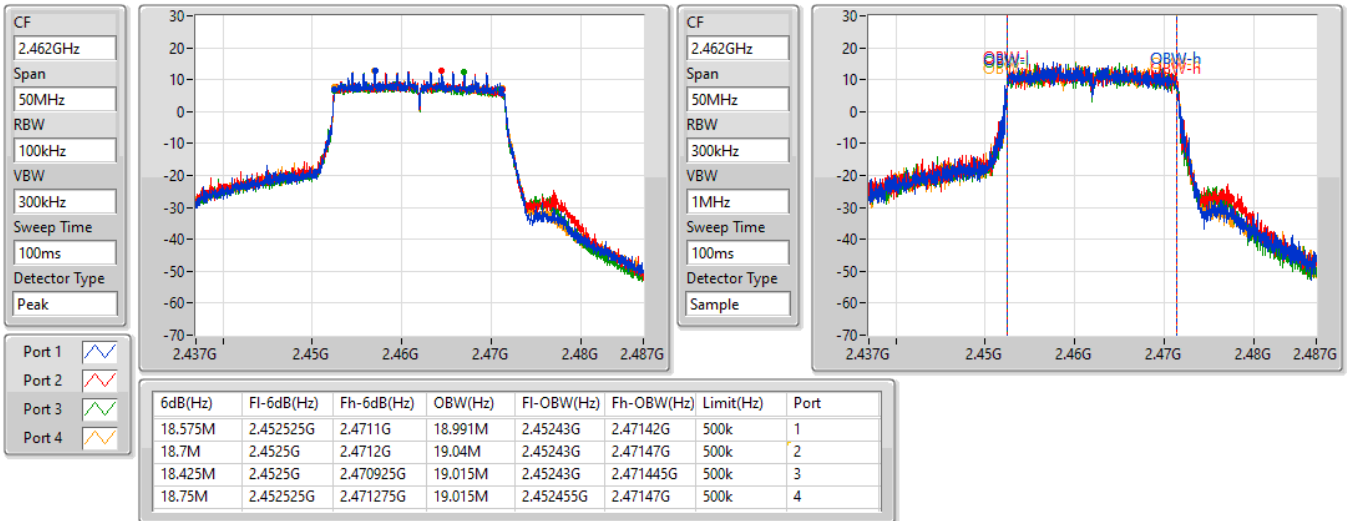

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2437MHz

06/09/2021

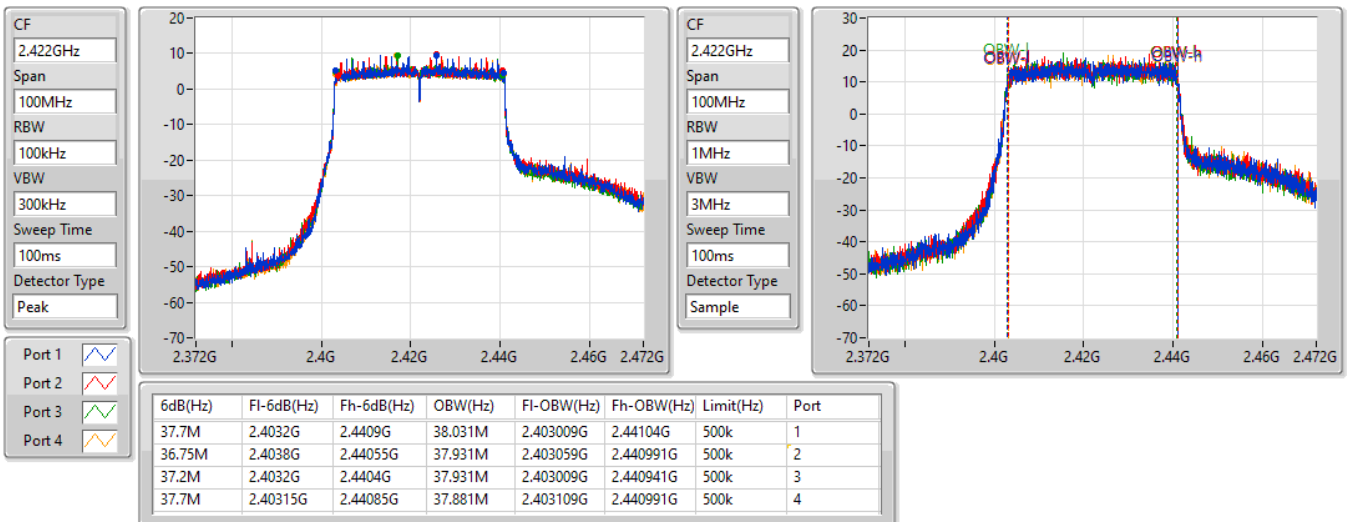


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2462MHz

06/09/2021

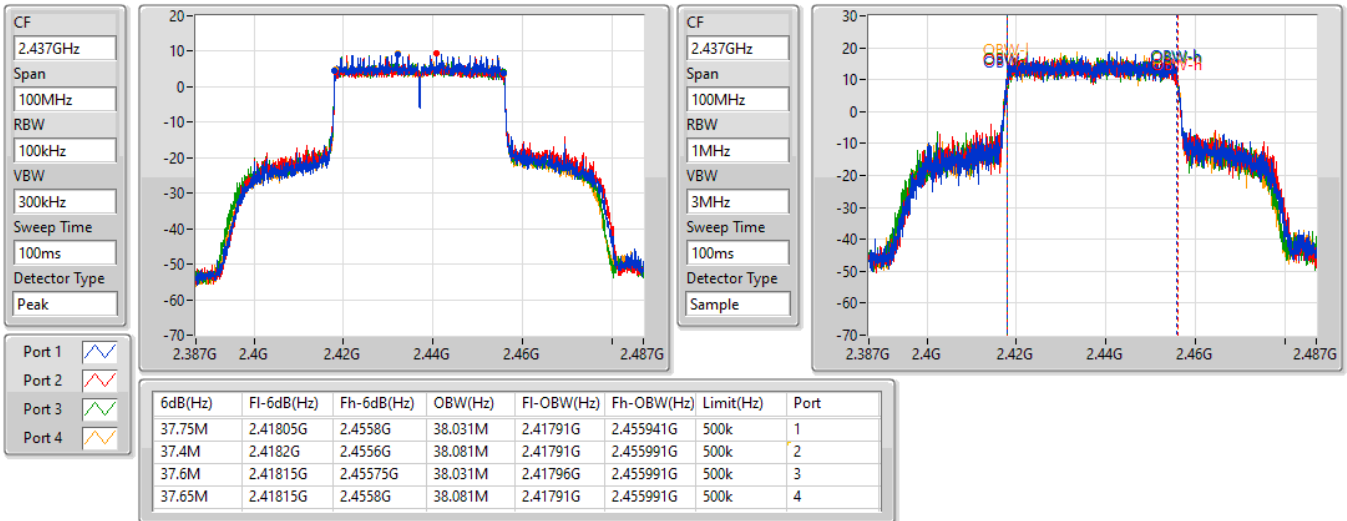

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2422MHz

06/09/2021

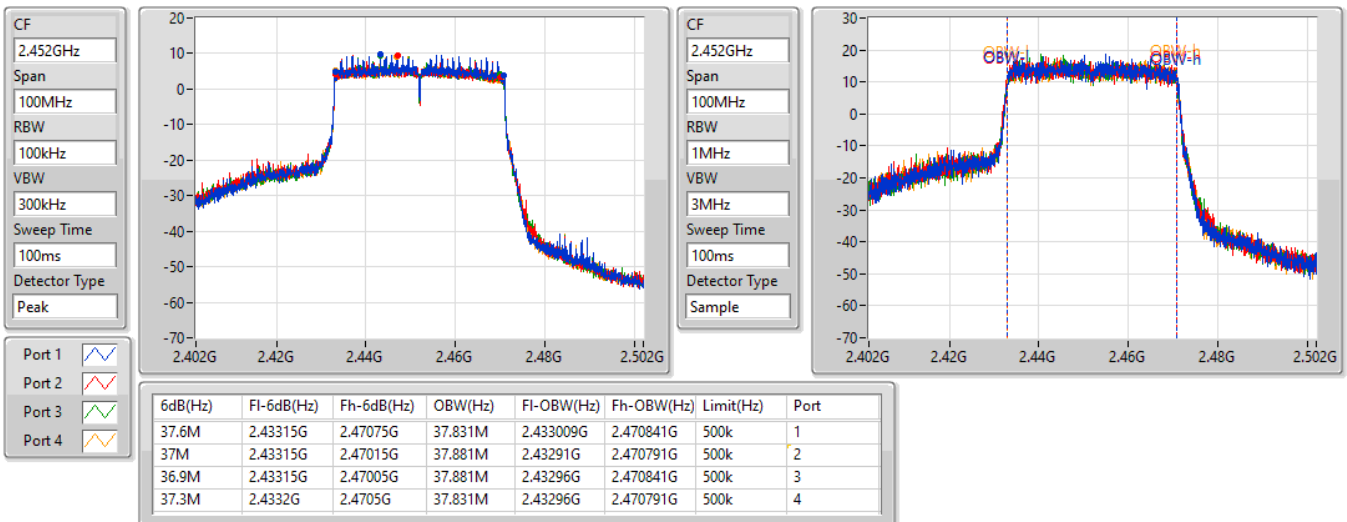


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2437MHz

06/09/2021


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2452MHz

06/09/2021



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	18.925M	19.115M	19M1D1D	18.275M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.95M	38.081M	38M1D1D	36.85M	37.831M

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

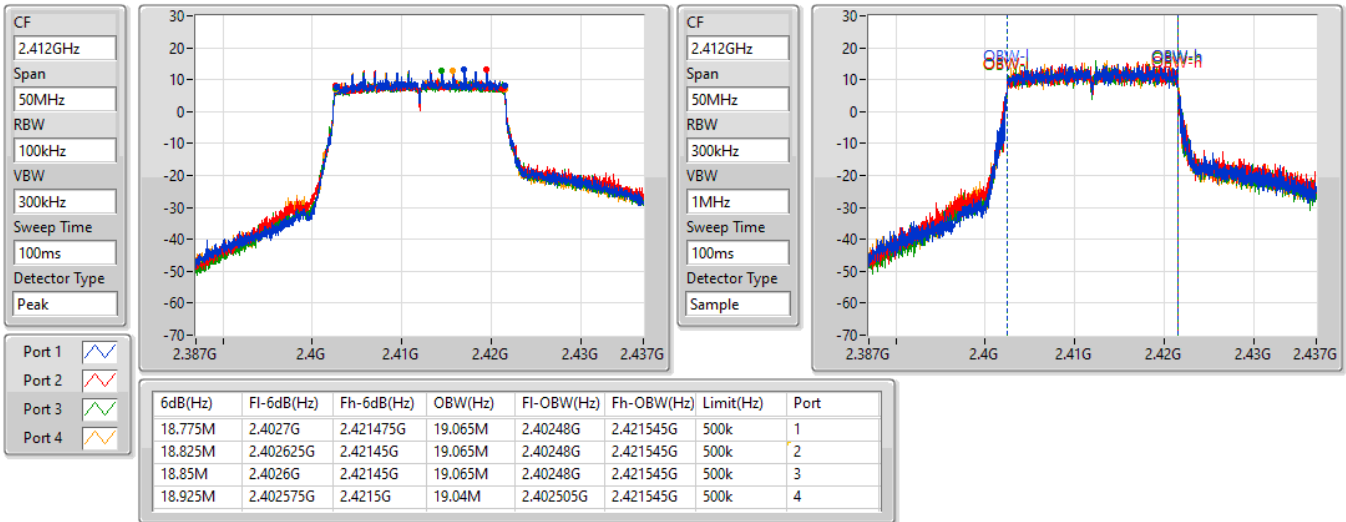
Result

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	18.775M	19.065M	18.825M	19.065M	18.85M	19.065M	18.925M	19.04M
2437MHz	Pass	500k	18.925M	19.04M	18.85M	19.04M	18.85M	18.991M	18.8M	19.04M
2462MHz	Pass	500k	18.7M	19.015M	18.85M	19.115M	18.3M	19.04M	18.275M	19.015M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.55M	37.881M	37.4M	38.031M	37.6M	37.981M	37.55M	37.981M
2437MHz	Pass	500k	37.95M	37.931M	37.35M	38.081M	37.65M	37.981M	37.75M	37.981M
2452MHz	Pass	500k	37.7M	37.931M	36.85M	37.831M	37.55M	37.831M	36.95M	37.831M

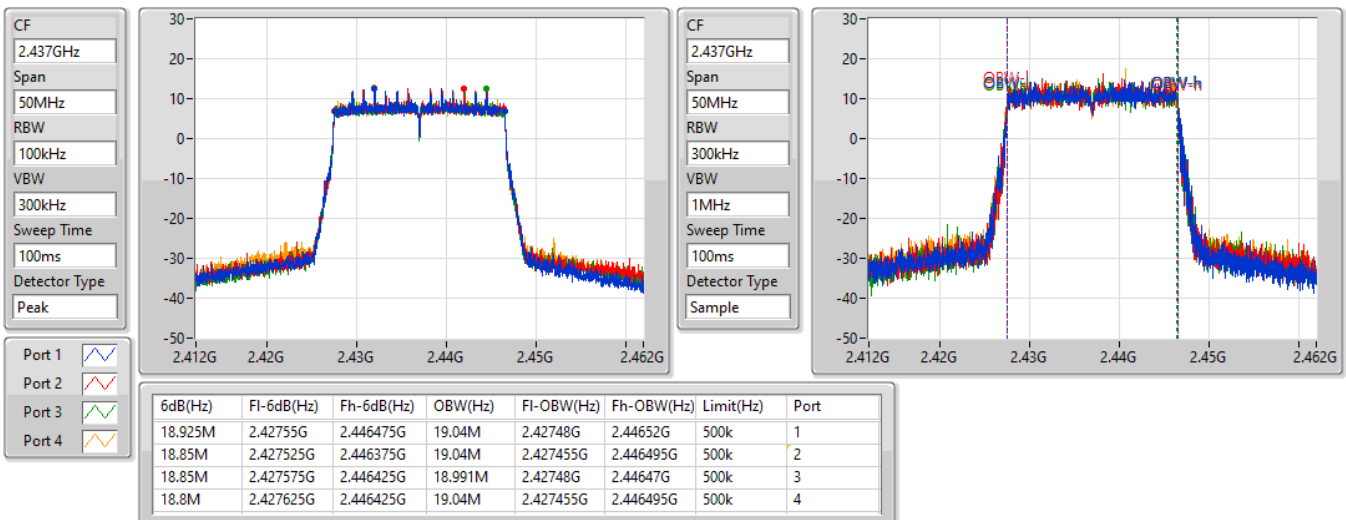
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

06/09/2021

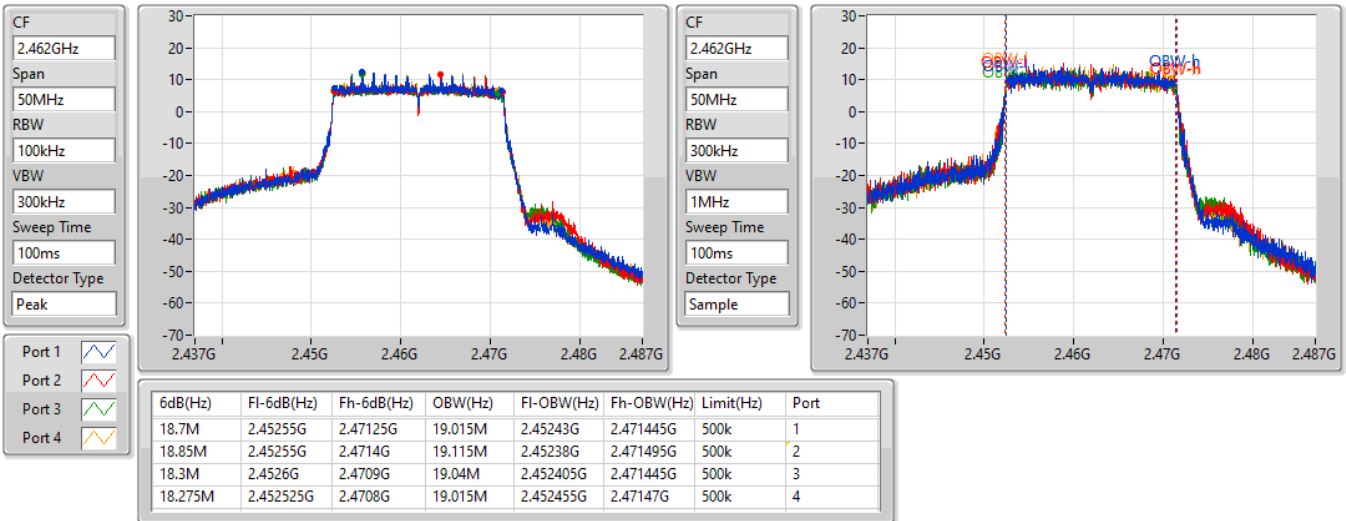

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

06/09/2021

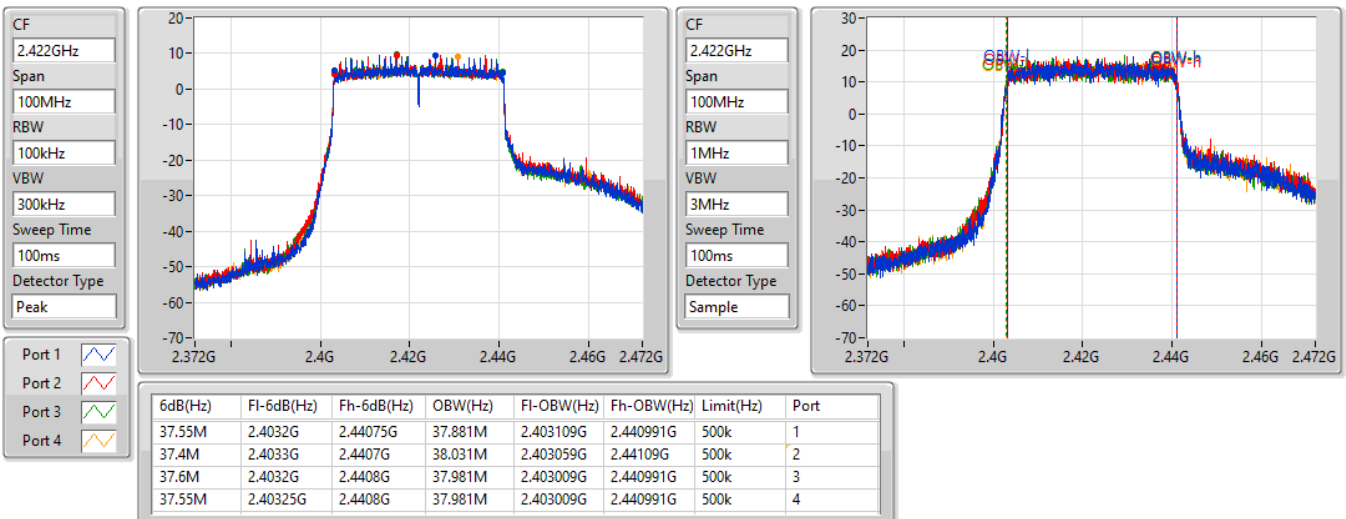


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
2462MHz

06/09/2021

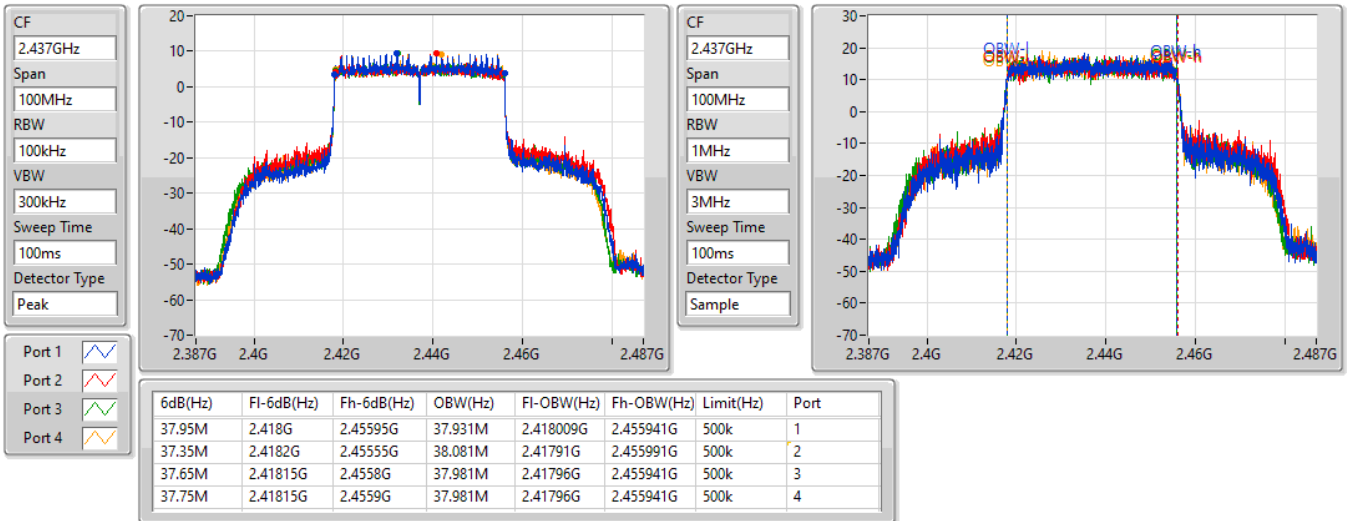

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
2422MHz

06/09/2021

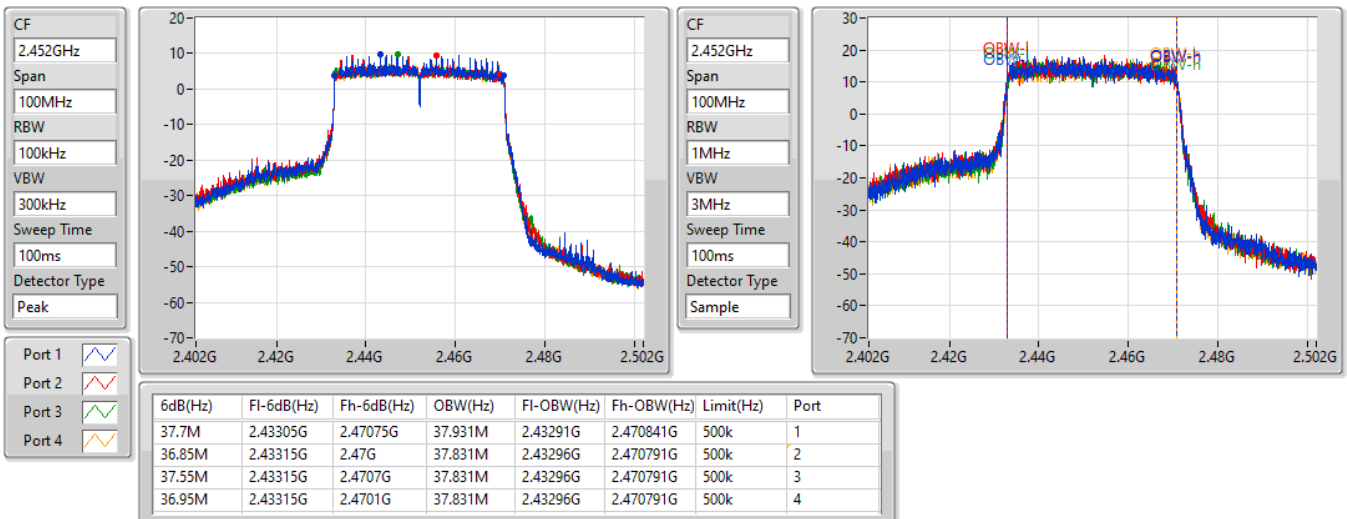


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

06/09/2021


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

06/09/2021





Average Power

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	29.98	0.99541
802.11g_Nss1,(6Mbps)_4TX	29.91	0.97949
802.11ax HEW20_Nss1,(MCS0)_4TX	29.94	0.98628
802.11ax HEW40_Nss1,(MCS0)_4TX	29.98	0.99541

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	3.12	23.87	23.81	23.85	23.83	29.86	30.00
2437MHz	Pass	3.12	23.84	24.19	24.17	23.62	29.98	30.00
2462MHz	Pass	3.12	24.05	23.88	23.83	23.98	29.96	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.12	23.91	23.77	23.71	24.03	29.88	30.00
2437MHz	Pass	3.12	23.81	23.93	23.89	23.93	29.91	30.00
2462MHz	Pass	3.12	23.98	23.83	23.58	23.96	29.86	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.12	23.96	23.92	23.80	24.01	29.94	30.00
2437MHz	Pass	3.12	23.84	23.79	23.87	23.92	29.88	30.00
2462MHz	Pass	3.12	23.87	23.93	23.51	23.78	29.80	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	3.12	23.92	23.71	23.99	23.66	29.84	30.00
2437MHz	Pass	3.12	23.98	24.01	23.96	23.87	29.98	30.00
2452MHz	Pass	3.12	23.88	24.04	23.84	23.73	29.89	30.00

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



Average Power

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.97	0.99312
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.97	0.99312

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	5.45	23.98	23.89	23.86	24.05	29.97	30.00
2437MHz	Pass	5.45	23.87	23.83	23.89	23.95	29.91	30.00
2462MHz	Pass	5.45	23.12	22.89	22.73	23.05	28.97	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.45	23.94	23.76	24.02	23.68	29.87	30.00
2437MHz	Pass	5.45	23.96	24.02	23.92	23.89	29.97	30.00
2452MHz	Pass	5.45	23.92	24.05	23.87	23.75	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	5.58
802.11g_Nss1,(6Mbps)_4TX	2.24
802.11ax HEW20_Nss1,(MCS0)_4TX	1.67
802.11ax HEW40_Nss1,(MCS0)_4TX	-0.98

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	5.45	1.71	1.89	1.15	1.96	5.43	8.00
2437MHz	Pass	5.45	1.41	1.54	1.13	1.60	5.38	8.00
2462MHz	Pass	5.45	2.00	0.52	1.07	2.22	5.58	8.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.45	-1.38	-2.36	-1.69	-2.53	2.13	8.00
2437MHz	Pass	5.45	-2.26	-2.34	-2.06	-2.97	2.24	8.00
2462MHz	Pass	5.45	-2.27	-2.39	-2.74	-2.08	2.10	8.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.45	-2.09	-3.06	-2.52	-3.37	1.67	8.00
2437MHz	Pass	5.45	-3.79	-3.67	-3.07	-3.50	1.55	8.00
2462MHz	Pass	5.45	-3.08	-3.17	-2.72	-3.96	1.54	8.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.45	-4.98	-5.86	-6.20	-6.17	-1.29	8.00
2437MHz	Pass	5.45	-5.00	-5.55	-5.74	-5.53	-0.98	8.00
2452MHz	Pass	5.45	-5.49	-6.50	-6.00	-5.48	-1.25	8.00

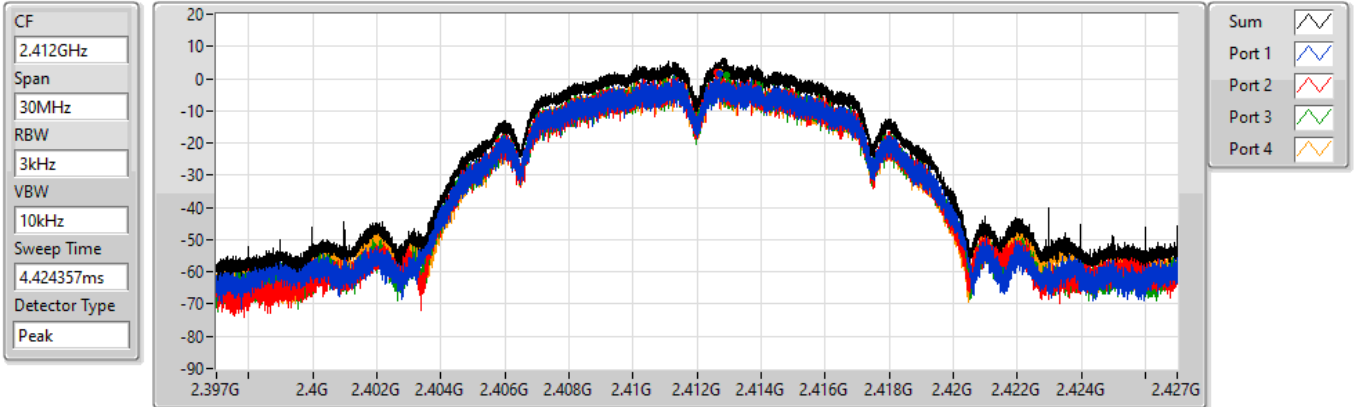
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

06/09/2021



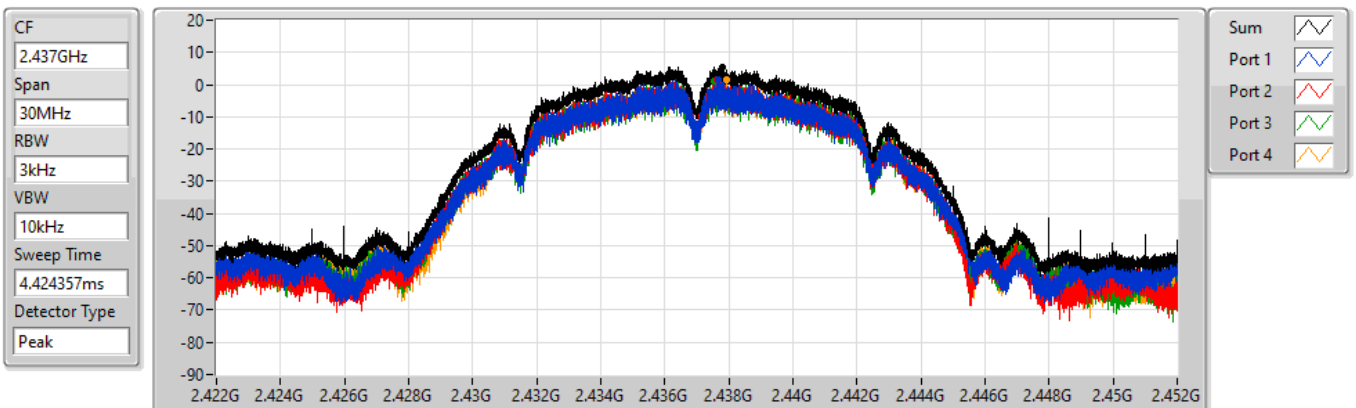
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.43	5.43	1.71	1.89	1.15	1.96

802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

06/09/2021



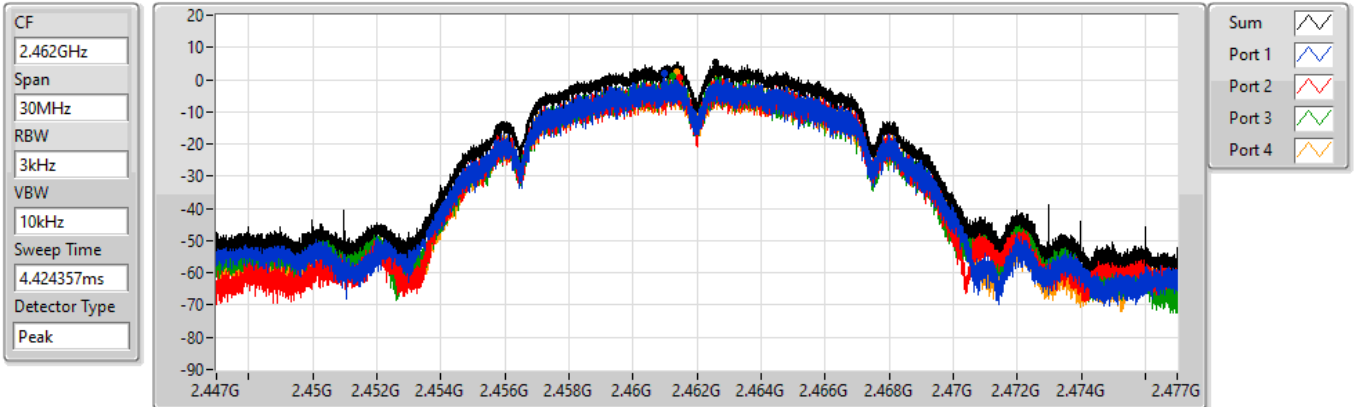
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.38	5.38	1.41	1.54	1.13	1.60

802.11b_Nss1,(1Mbps)_4TX

PSD

2462MHz

06/09/2021



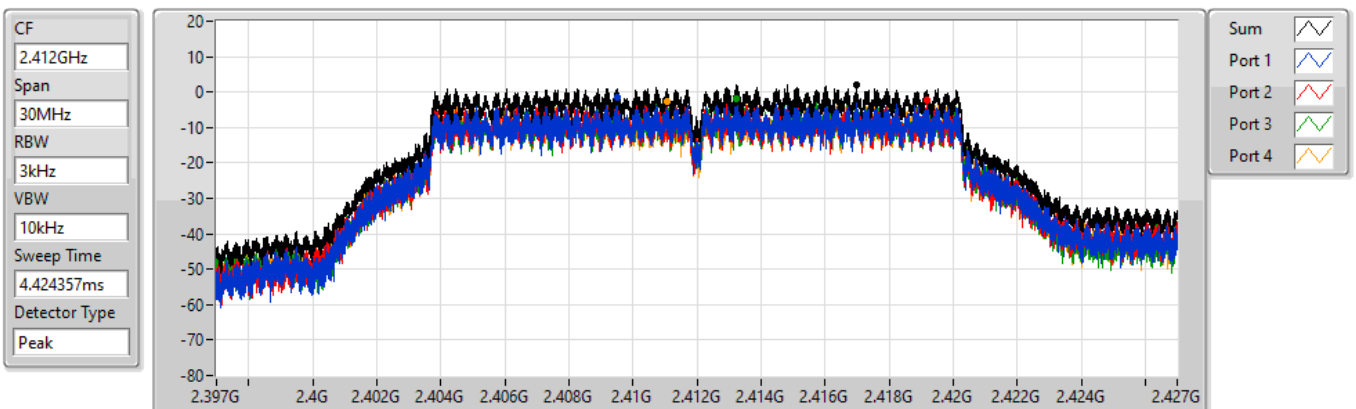
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.58	5.58	2.00	0.52	1.07	2.22

802.11g_Nss1,(6Mbps)_4TX

PSD

2412MHz

06/09/2021



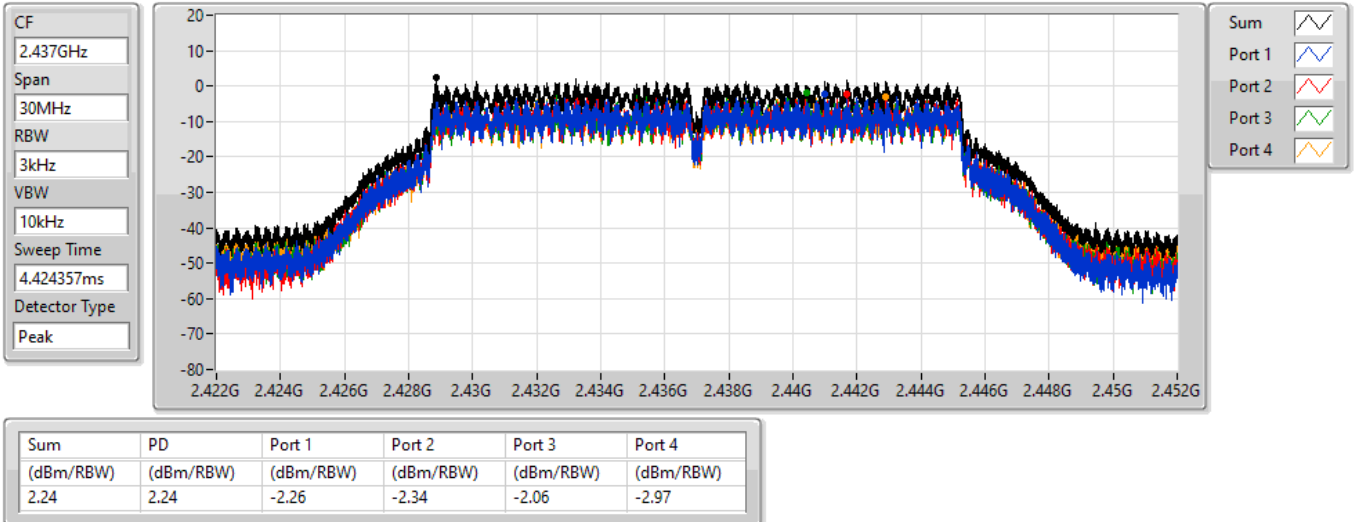
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.13	2.13	-1.38	-2.36	-1.69	-2.53

802.11g_Nss1,(6Mbps)_4TX

PSD

2437MHz

06/09/2021

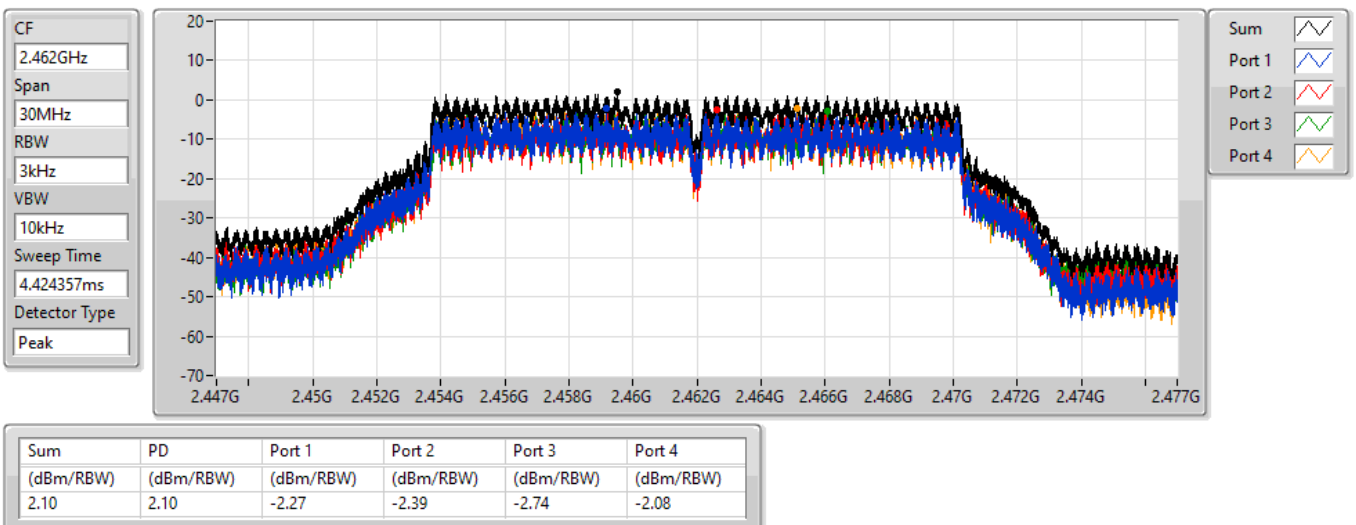


802.11g_Nss1,(6Mbps)_4TX

PSD

2462MHz

06/09/2021

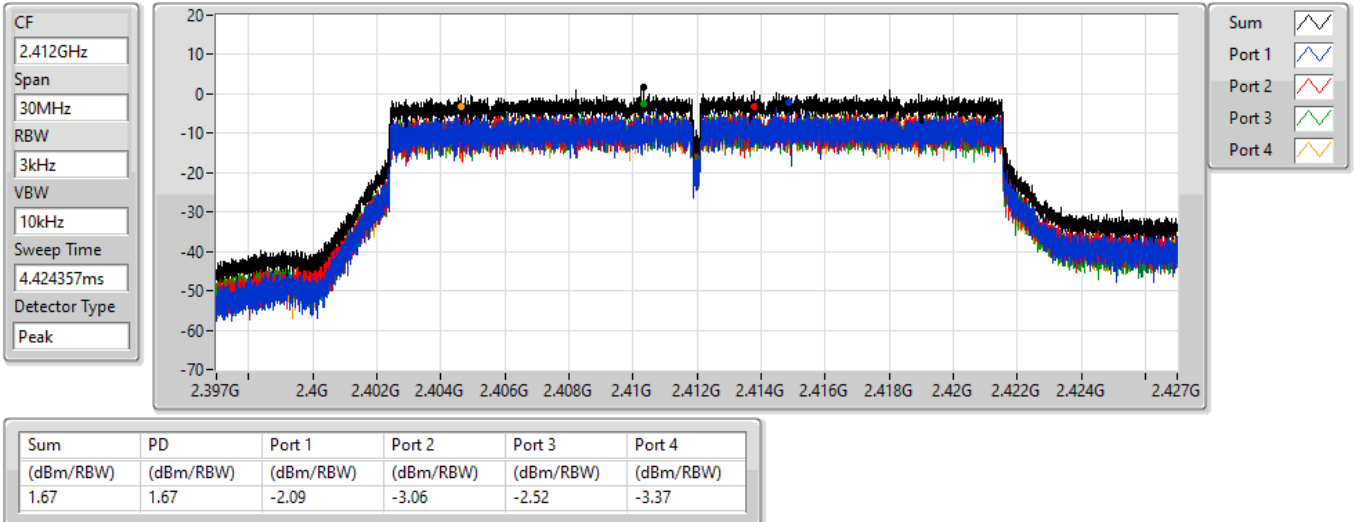


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2412MHz

06/09/2021



802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2437MHz

06/09/2021

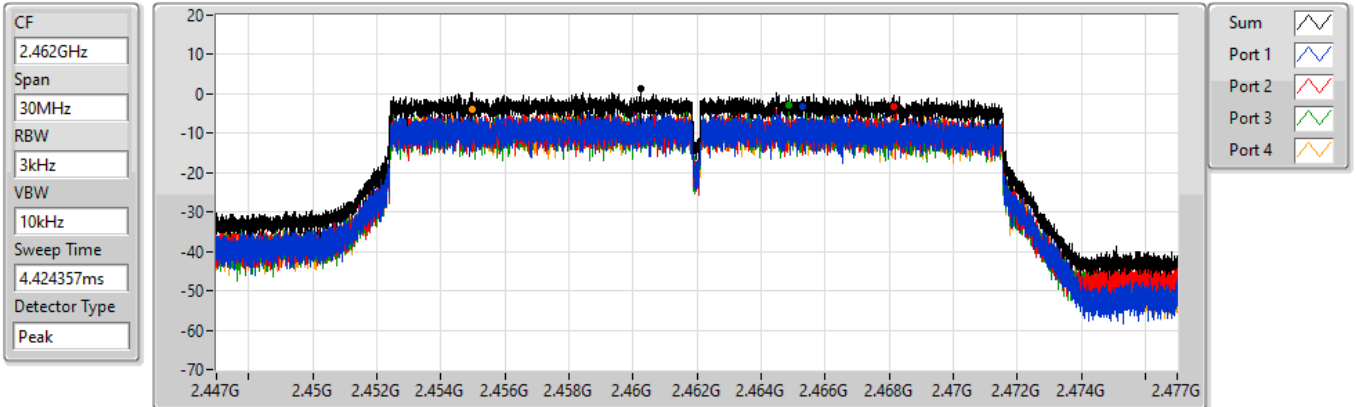


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2462MHz

06/09/2021



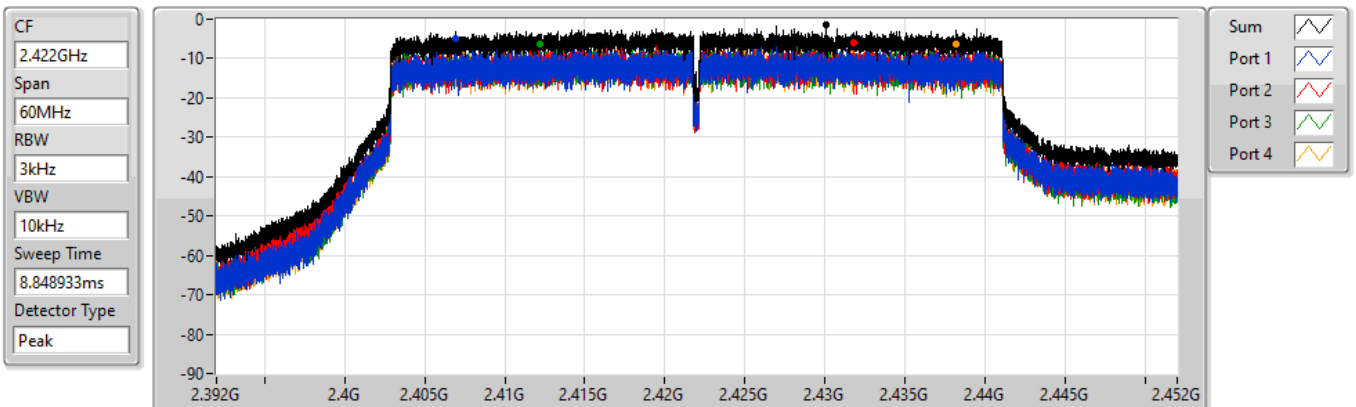
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.54	1.54	-3.08	-3.17	-2.72	-3.96

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2422MHz

06/09/2021



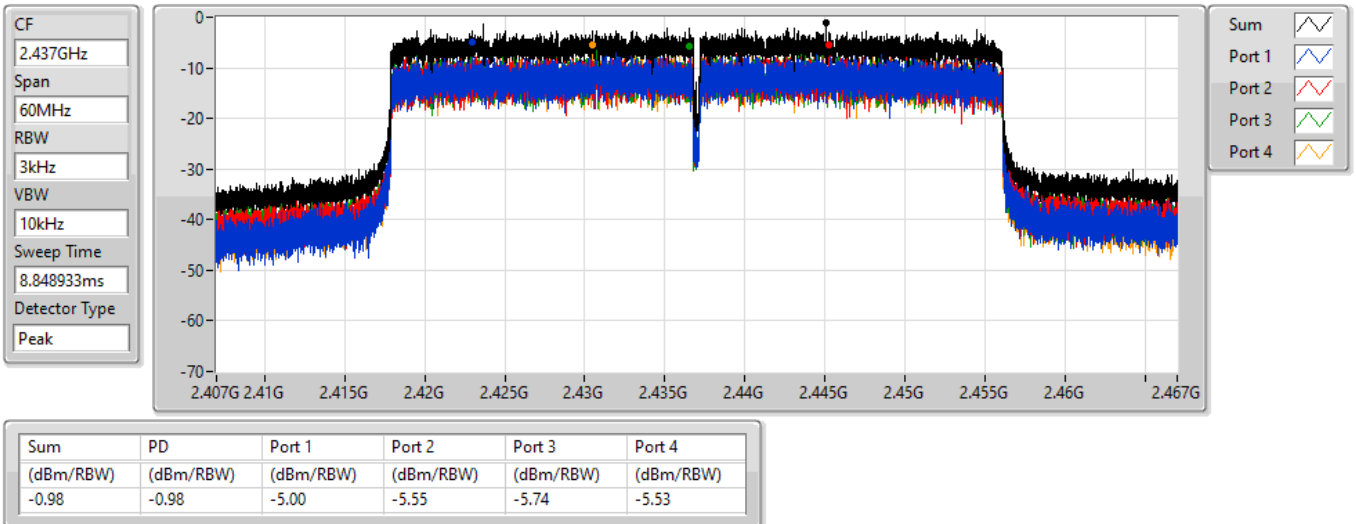
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.29	-1.29	-4.98	-5.86	-6.20	-6.17

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2437MHz

06/09/2021

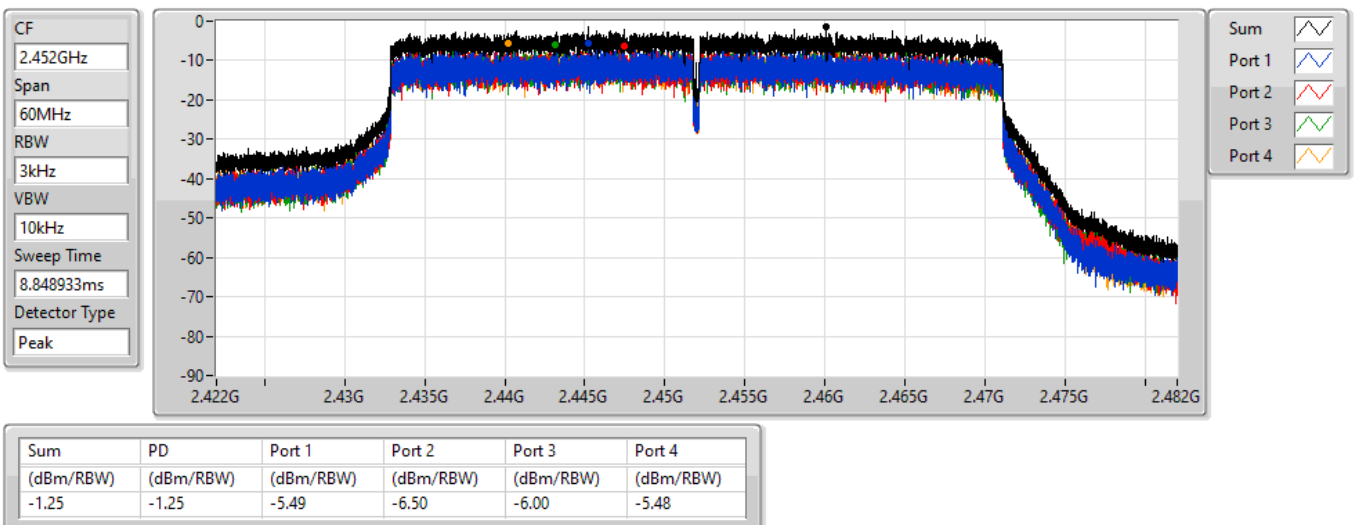


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2452MHz

06/09/2021



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	1.73
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-0.98

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	5.45	-3.02	-2.80	-2.66	-3.07	1.73	8.00
2437MHz	Pass	5.45	-3.00	-2.13	-2.98	-2.95	1.63	8.00
2462MHz	Pass	5.45	-4.11	-3.78	-3.92	-3.55	0.30	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.45	-5.13	-5.39	-5.60	-5.48	-1.30	8.00
2437MHz	Pass	5.45	-5.66	-5.61	-5.97	-6.33	-0.98	8.00
2452MHz	Pass	5.45	-6.34	-3.63	-5.65	-6.14	-1.22	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_Nss1,(MCS0)_4TX

PSD

2412MHz

06/09/2021

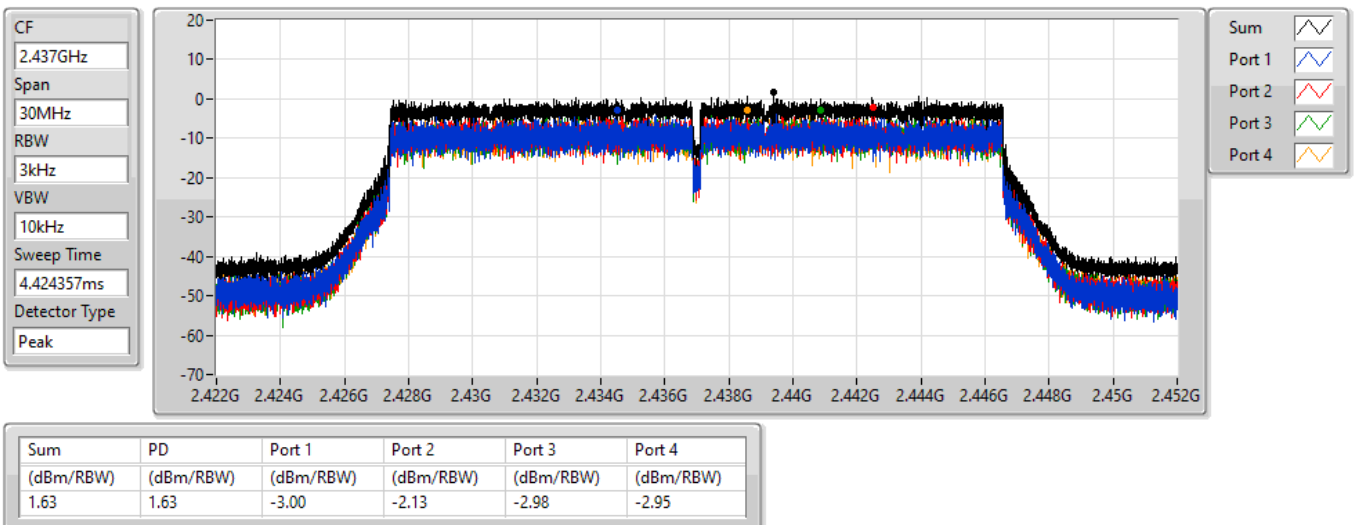


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

06/09/2021

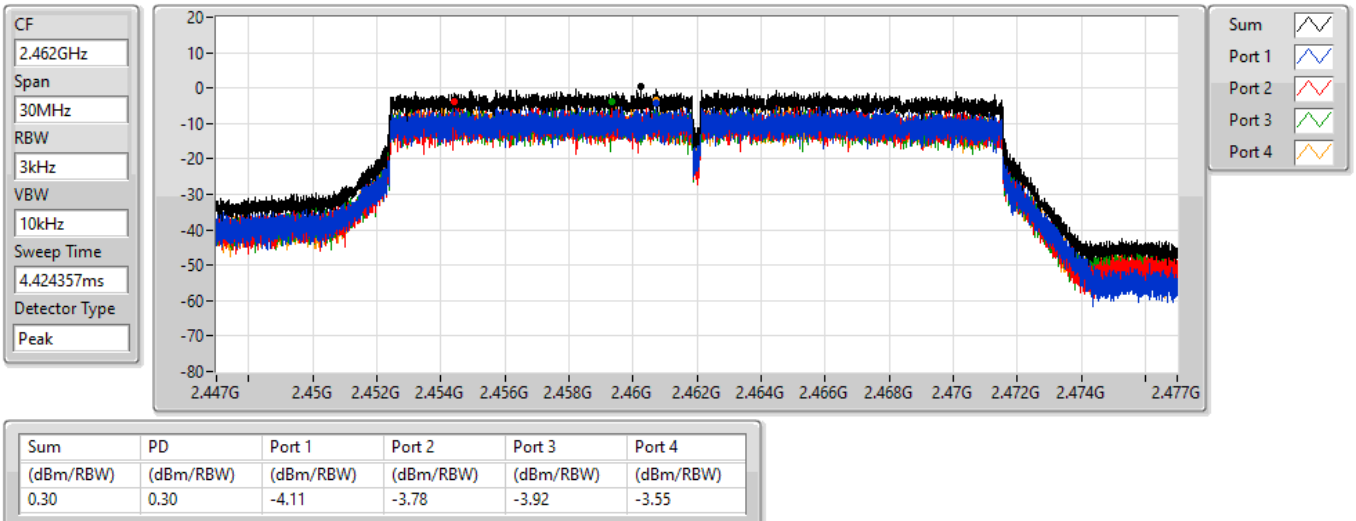


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2462MHz

06/09/2021



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2422MHz

06/09/2021

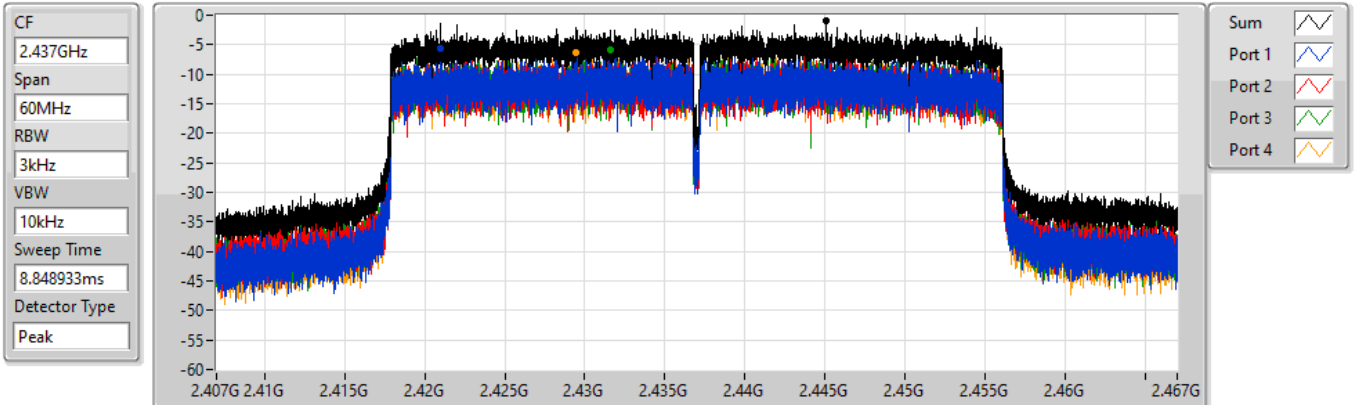


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

06/09/2021



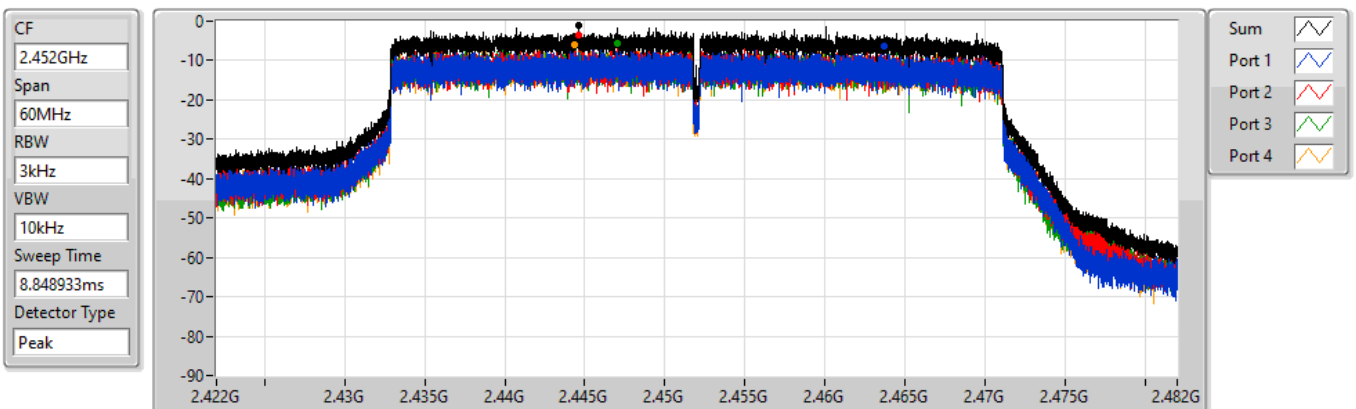
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.98	-0.98	-5.66	-5.61	-5.97	-6.33

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2452MHz

06/09/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.22	-1.22	-6.34	-3.63	-5.65	-6.14



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	2.43649G	15.75	-14.25	1.73236G	-53.73	2.4G	-38.01	2.4G	-39.61	2.48946G	-51.98	24.71342G	-48.07	4
802.11g_Nss1(6Mbps)_4TX	Pass	2.442G	12.90	-17.10	765.99M	-52.82	2.39948G	-24.19	2.4G	-27.64	2.52032G	-51.46	5.82193G	-48.08	4
802.11ax HEW20_Nss1.(MCS0)_4TX	Pass	2.41699G	13.07	-16.93	1.76876G	-53.66	2.39896G	-26.03	2.4G	-30.06	2.49036G	-51.89	6.90361G	-47.93	4
802.11ax HEW40_Nss1.(MCS0)_4TX	Pass	2.44075G	9.39	-20.61	917.38M	-52.31	2.39952G	-22.04	2.4G	-22.73	2.48514G	-48.16	16.38438G	-48.18	2

Result

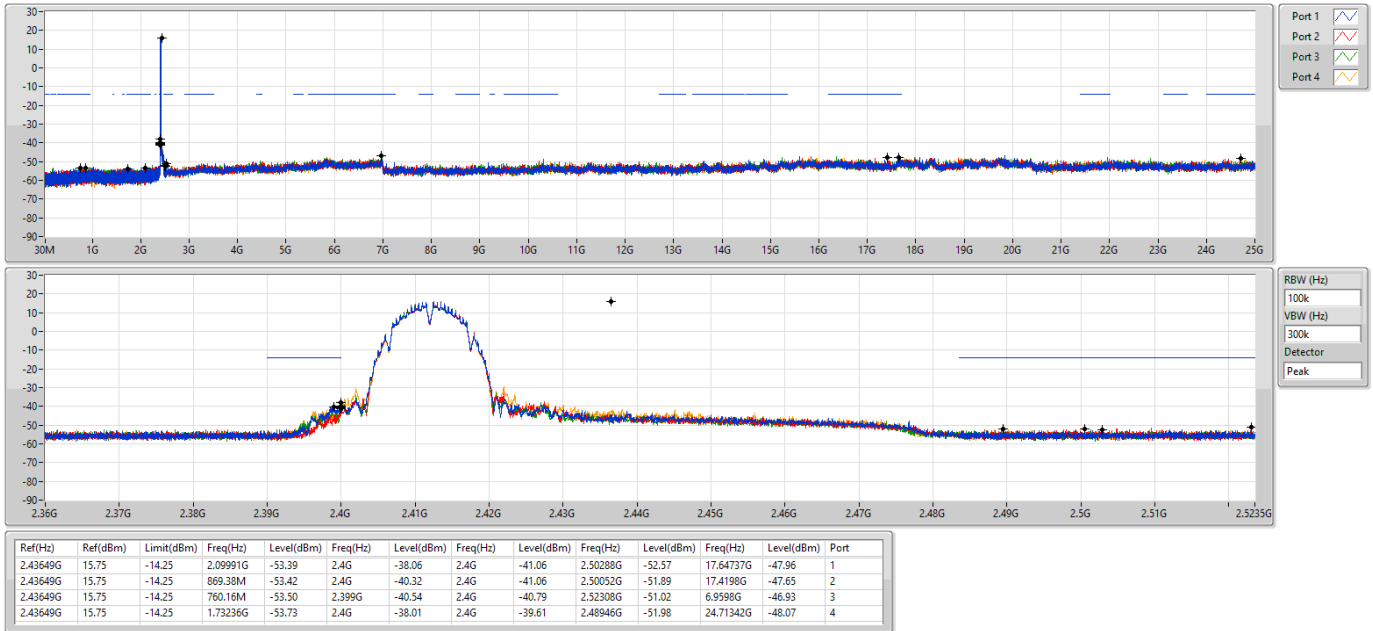
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	15.75	-14.25	2.09991G	-53.39	2.4G	-38.06	2.4G	-41.06	2.50288G	-52.57	17.64737G	-47.96	1
2412MHz	Pass	2.43649G	15.75	-14.25	869.38M	-53.42	2.4G	-40.32	2.4G	-41.06	2.50052G	-51.89	17.4198G	-47.65	2
2412MHz	Pass	2.43649G	15.75	-14.25	760.16M	-53.50	2.399G	-40.54	2.4G	-40.79	2.52308G	-51.02	6.9598G	-46.93	3
2412MHz	Pass	2.43649G	15.75	-14.25	1.73236G	-53.73	2.4G	-38.01	2.4G	-39.61	2.48946G	-51.98	24.71342G	-48.07	4
2437MHz	Pass	2.43649G	15.75	-14.25	958.51M	-52.50	2.39774G	-47.09	2.4G	-47.79	2.51512G	-52.27	6.8418G	-48.29	1
2437MHz	Pass	2.43649G	15.75	-14.25	908.41M	-52.73	2.39918G	-48.20	2.4G	-49.26	2.48492G	-52.00	17.68952G	-47.81	2
2437MHz	Pass	2.43649G	15.75	-14.25	618.91M	-53.35	2.39868G	-46.76	2.4G	-48.79	2.49546G	-52.15	21.96567G	-48.06	3
2437MHz	Pass	2.43649G	15.75	-14.25	2.11244G	-53.14	2.3994G	-46.78	2.4G	-49.37	2.52058G	-52.31	5.85845G	-48.21	4
2462MHz	Pass	2.43649G	15.75	-14.25	822.49M	-53.58	2.39986G	-49.19	2.4G	-49.78	2.48478G	-52.01	5.85283G	-47.31	1
2462MHz	Pass	2.43649G	15.75	-14.25	1.82701G	-53.10	2.39836G	-49.62	2.4G	-50.72	2.4979G	-52.46	6.83056G	-47.72	2
2462MHz	Pass	2.43649G	15.75	-14.25	790.16M	-52.85	2.3991G	-48.31	2.4G	-49.03	2.50884G	-51.30	5.86969G	-48.29	3
2462MHz	Pass	2.43649G	15.75	-14.25	625.02M	-53.59	2.39996G	-48.51	2.4G	-50.36	2.5123G	-52.22	23.37326G	-48.61	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	12.90	-17.10	2.05943G	-53.41	2.39888G	-28.96	2.4G	-31.90	2.51756G	-52.28	6.96261G	-47.95	1
2412MHz	Pass	2.442G	12.90	-17.10	1.81769G	-53.34	2.39988G	-29.30	2.4G	-30.38	2.48958G	-51.55	5.89778G	-48.20	2
2412MHz	Pass	2.442G	12.90	-17.10	914.82M	-53.47	2.3992G	-29.55	2.4G	-34.12	2.48668G	-51.86	6.56084G	-48.43	3
2412MHz	Pass	2.442G	12.90	-17.10	765.99M	-52.82	2.39948G	-24.19	2.4G	-27.64	2.52032G	-51.46	5.82193G	-48.08	4
2437MHz	Pass	2.442G	12.90	-17.10	656.19M	-53.46	2.39942G	-45.13	2.4G	-46.45	2.51726G	-52.00	17.45632G	-48.34	1
2437MHz	Pass	2.442G	12.90	-17.10	497.75M	-53.72	2.39954G	-45.32	2.4G	-47.36	2.51834G	-51.62	16.33812G	-47.40	2
2437MHz	Pass	2.442G	12.90	-17.10	835.89M	-53.39	2.39876G	-44.37	2.4G	-44.70	2.4987G	-52.30	15.30701G	-47.47	3
2437MHz	Pass	2.442G	12.90	-17.10	2.30525G	-52.31	2.39848G	-44.49	2.4G	-45.27	2.48464G	-51.83	21.83643G	-48.02	4
2462MHz	Pass	2.442G	12.90	-17.10	858.02M	-53.50	2.3998G	-48.62	2.4835G	-47.12	2.48386G	-46.45	17.67266G	-48.29	1
2462MHz	Pass	2.442G	12.90	-17.10	2.08098G	-52.77	2.39986G	-47.67	2.4835G	-48.70	2.48386G	-47.36	16.34655G	-47.92	2
2462MHz	Pass	2.442G	12.90	-17.10	800.65M	-52.87	2.39928G	-48.20	2.4835G	-46.81	2.48354G	-48.90	17.67547G	-47.98	3
2462MHz	Pass	2.442G	12.90	-17.10	794.82M	-52.55	2.3993G	-47.89	2.4G	-47.91	2.4839G	-45.98	6.64232G	-47.96	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41699G	13.07	-16.93	2.01545G	-52.09	2.39988G	-30.56	2.4G	-33.11	2.4916G	-52.40	16.32969G	-48.07	1
2412MHz	Pass	2.41699G	13.07	-16.93	2.19865G	-53.59	2.39908G	-27.84	2.4G	-29.04	2.50622G	-51.83	6.96823G	-48.34	2
2412MHz	Pass	2.41699G	13.07	-16.93	957.63M	-52.33	2.39862G	-29.66	2.4G	-30.70	2.51684G	-52.25	5.81631G	-47.70	3
2412MHz	Pass	2.41699G	13.07	-16.93	1.76876G	-53.66	2.39896G	-26.03	2.4G	-30.06	2.49036G	-51.89	6.90361G	-47.93	4
2437MHz	Pass	2.41699G	13.07	-16.93	1.65081G	-53.28	2.39972G	-43.01	2.4G	-44.82	2.4863G	-52.45	5.86969G	-46.96	1
2437MHz	Pass	2.41699G	13.07	-16.93	2.1369G	-52.53	2.39962G	-42.95	2.4G	-42.89	2.5114G	-52.16	6.81089G	-47.61	2
2437MHz	Pass	2.41699G	13.07	-16.93	824.24M	-52.74	2.39998G	-41.99	2.4G	-45.14	2.52256G	-51.83	6.91204G	-47.12	3
2437MHz	Pass	2.41699G	13.07	-16.93	626.19M	-53.01	2.3996G	-41.83	2.4G	-44.32	2.52252G	-51.85	16.43364G	-47.58	4
2462MHz	Pass	2.41699G	13.07	-16.93	2.05623G	-53.65	2.39994G	-46.95	2.4835G	-44.82	2.48378G	-42.12	6.93732G	-47.68	1
2462MHz	Pass	2.41699G	13.07	-16.93	1.83575G	-52.39	2.39996G	-49.41	2.4835G	-46.23	2.48404G	-44.73	17.66142G	-47.91	2
2462MHz	Pass	2.41699G	13.07	-16.93	441.83M	-53.54	2.39964G	-46.68	2.4835G	-45.71	2.48418G	-45.12	5.86688G	-47.26	3
2462MHz	Pass	2.41699G	13.07	-16.93	2.17447G	-53.22	2.39842G	-48.12	2.4835G	-44.94	2.48386G	-44.25	6.54679G	-48.04	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	9.39	-20.61	2.30512G	-51.59	2.39952G	-28.72	2.4G	-28.91	2.53802G	-51.22	6.24589G	-48.20	1
2422MHz	Pass	2.44075G	9.39	-20.61	795.43M	-53.55	2.39988G	-26.20	2.4G	-26.73	2.54554G	-52.23	5.87849G	-47.93	2
2422MHz	Pass	2.44075G	9.39	-20.61	949.72M	-53.08	2.39992G	-27.09	2.4G	-27.24	2.5611G	-50.81	17.65766G	-48.35	3
2422MHz	Pass	2.44075G	9.39	-20.61	2.13222G	-53.16	2.39984G	-28.07	2.4G	-28.50	2.53662G	-52.11	5.87008G	-47.61	4
2437MHz	Pass	2.44075G	9.39	-20.61	868.14M	-53.26	2.39996G	-23.73	2.4G	-25.21	2.48514G	-46.01	16.23574G	-47.73	1
2437MHz	Pass	2.44075G	9.39	-20.61	917.38M	-52.31	2.39952G	-22.04	2.4G	-22.73	2.48514G	-48.16	16.38438G	-48.18	2
2437MHz	Pass	2.44075G	9.39	-20.61	846.67M	-52.62	2.3998G	-22.91	2.4G	-22.15	2.4835G	-48.52	6.94703G	-47.27	3
2437MHz	Pass	2.44075G	9.39	-20.61	860.13M	-51.99	2.3996G	-26.18	2.4G	-25.00	2.4851G	-47.17	16.81909G	-48.69	4
2452MHz	Pass	2.44075G	9.39	-20.61	2.01314G	-53.38	2.39948G	-30.75	2.4G	-34.03	2.48446G	-40.27	22.00192G	-47.99	1
2452MHz	Pass	2.44075G	9.39	-20.61	2.14367G	-53.28	2.39948G	-28.46	2.4G	-33.95	2.48446G	-41.42	6.70303G	-48.26	2
2452MHz	Pass	2.44075G	9.39	-20.61	877.87M	-52.14	2.39952G	-27.30	2.4G	-32.50	2.48442G	-42.84	15.21769G	-48.73	3
2452MHz	Pass	2.44075G	9.39	-20.61	2.16142G	-53.64	2.39952G	-28.67	2.4G	-32.87	2.48946G	-41.71	5.86447G	-47.11	4

802.11b_Nss1,(1Mbps)_4TX

2412MHz

CSENdB

06/09/2021

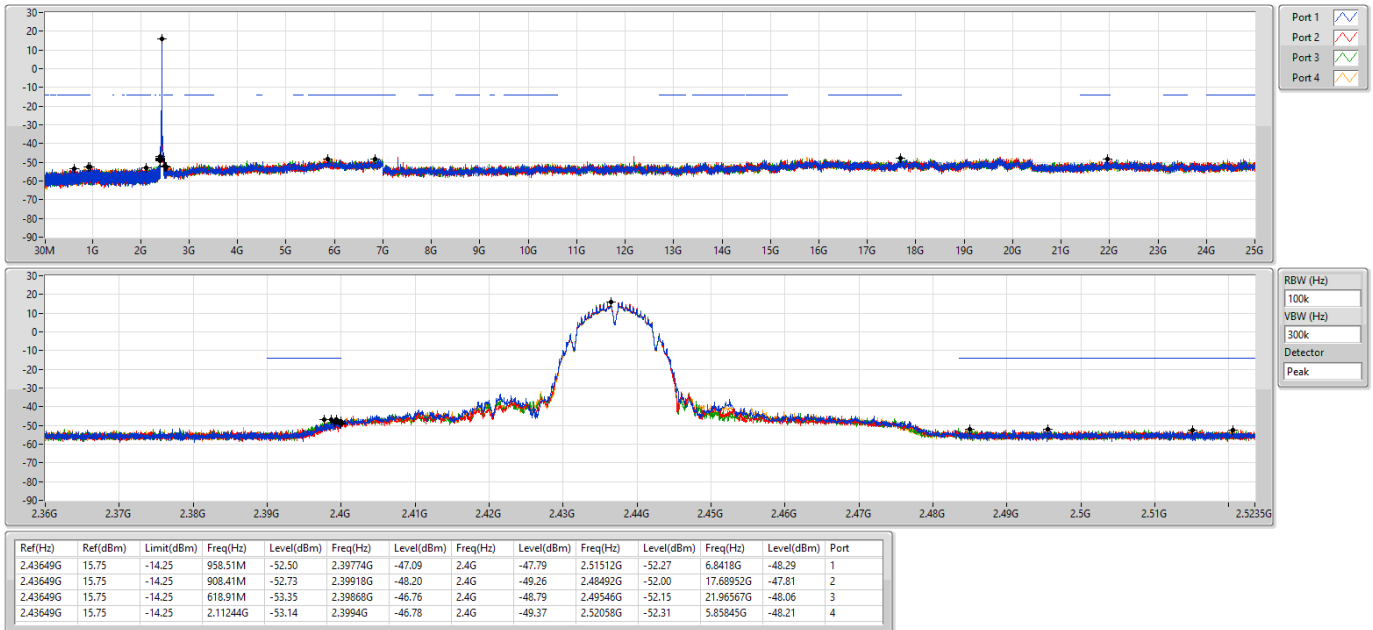


802.11b_Nss1,(1Mbps)_4TX

2437MHz

CSENdB

06/09/2021

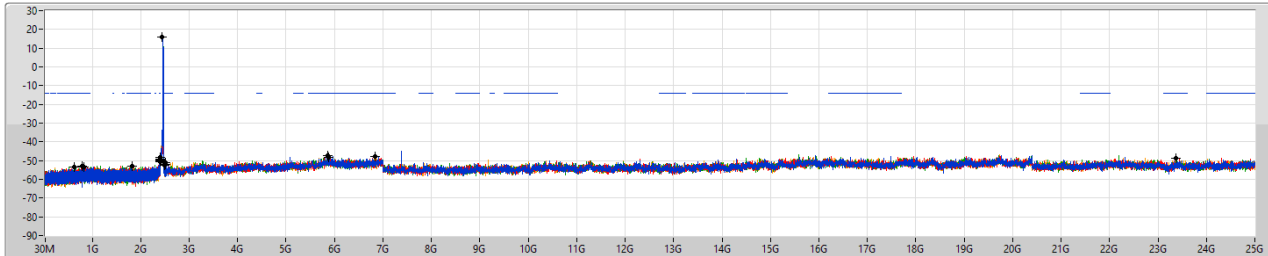


802.11b_Nss1,(1Mbps)_4TX

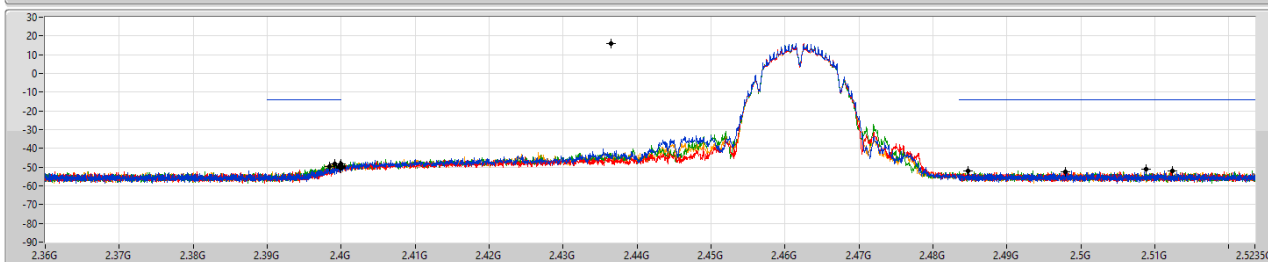
2462MHz

CSENdB

06/09/2021



Port 1
Port 2
Port 3
Port 4



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

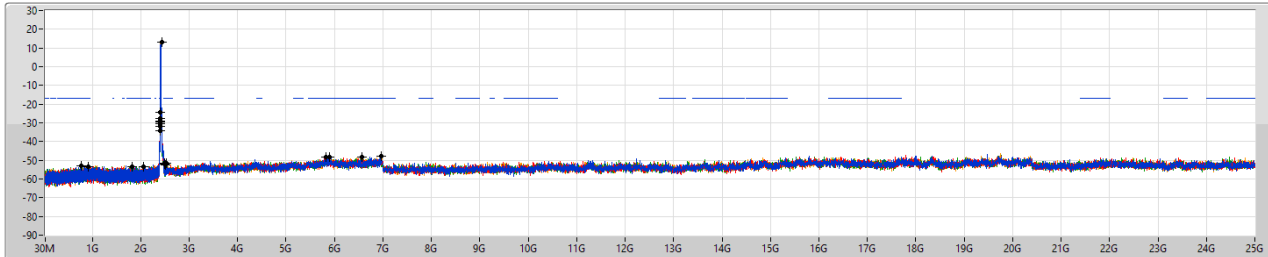
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	15.75	-14.25	822.49M	-53.58	2.39986G	-49.19	2.4G	-49.78	2.48478G	-52.01	5.85283G	-47.31	1
2.43649G	15.75	-14.25	1.82701G	-53.10	2.39836G	-49.62	2.4G	-50.72	2.4979G	-52.46	6.83056G	-47.72	2
2.43649G	15.75	-14.25	790.16M	-52.85	2.3991G	-48.31	2.4G	-49.03	2.50884G	-51.30	5.86969G	-48.29	3
2.43649G	15.75	-14.25	625.02M	-53.59	2.39996G	-48.51	2.4G	-50.36	2.5123G	-52.22	23.37326G	-48.61	4

802.11g_Nss1,(6Mbps)_4TX

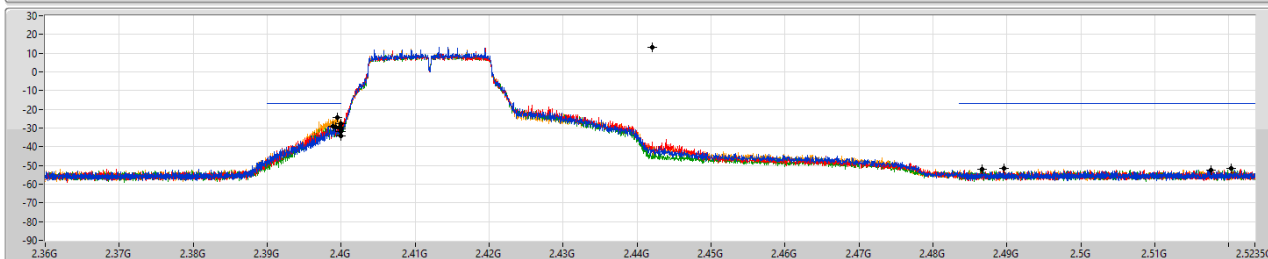
2412MHz

CSENdB

06/09/2021



Port 1
Port 2
Port 3
Port 4



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

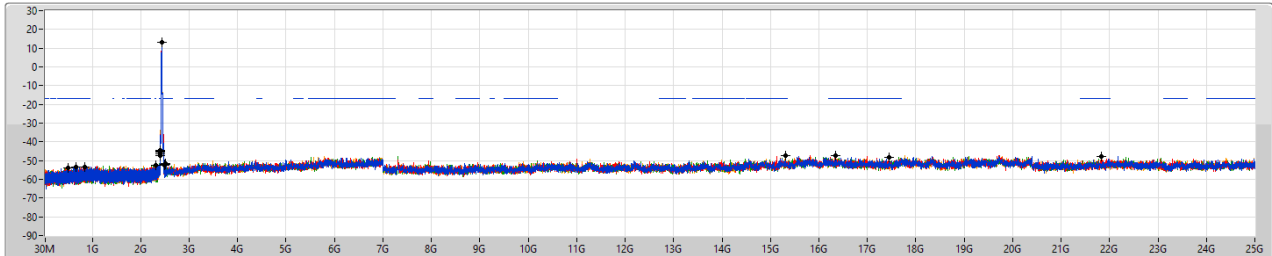
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.90	-17.10	2.05943G	-53.41	2.39888G	-28.96	2.4G	-31.90	2.51756G	-52.28	6.96261G	-47.95	1
2.442G	12.90	-17.10	1.81769G	-53.34	2.39888G	-29.30	2.4G	-30.38	2.48958G	-51.55	5.89778G	-48.20	2
2.442G	12.90	-17.10	914.82M	-53.47	2.3982G	-29.55	2.4G	-34.12	2.48668G	-51.86	6.56084G	-48.43	3
2.442G	12.90	-17.10	765.99M	-52.82	2.39948G	-24.19	2.4G	-27.64	2.52032G	-51.46	5.82193G	-48.08	4

802.11g_Nss1,(6Mbps)_4TX

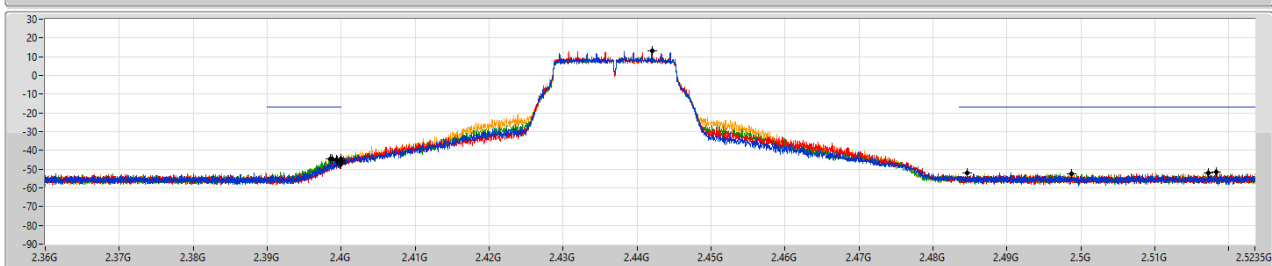
2437MHz

CSENdB

06/09/2021



Port 1
Port 2
Port 3
Port 4



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

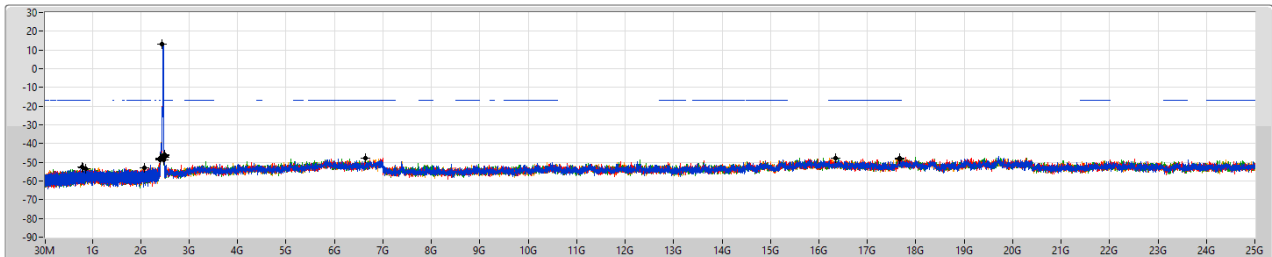
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.90	-17.10	656.19M	-53.46	2.39942G	-45.13	2.4G	-46.45	2.51726G	-52.00	1
2.442G	12.90	-17.10	497.75M	-53.72	2.39954G	-45.32	2.4G	-47.36	2.51834G	-51.62	2
2.442G	12.90	-17.10	835.89M	-53.39	2.39876G	-44.37	2.4G	-44.70	2.4987G	-52.30	3
2.442G	12.90	-17.10	2.30525G	-52.31	2.39848G	-44.49	2.4G	-45.27	2.48464G	-51.83	4

802.11g_Nss1,(6Mbps)_4TX

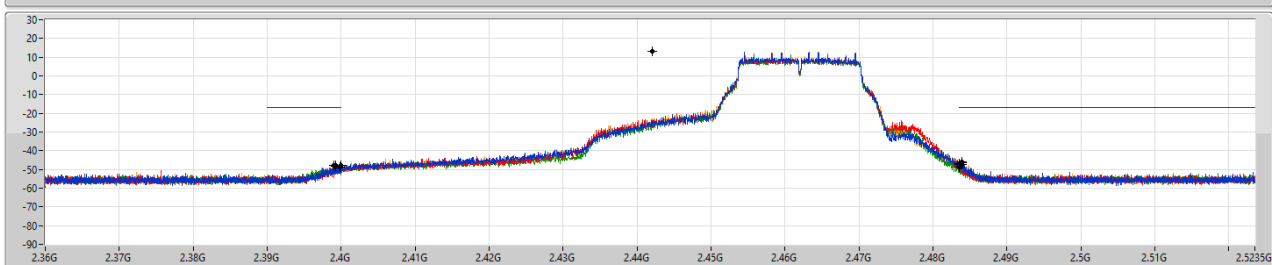
2462MHz

CSENdB

06/09/2021



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	12.90	-17.10	658.02M	-53.50	2.3998G	-48.62	2.4835G	-47.12	2.48386G	-46.45	1
2.442G	12.90	-17.10	2.00099G	-52.77	2.39896G	-47.67	2.4835G	-48.70	2.48386G	-47.36	2
2.442G	12.90	-17.10	800.65M	-52.87	2.39828G	-48.20	2.4835G	-48.81	2.48354G	-48.90	3
2.442G	12.90	-17.10	794.82M	-52.55	2.3993G	-47.89	2.4G	-47.91	2.4839G	-45.98	4

802.11ax HEW20_Nss1,(MCS0)_4TX

CSENdB

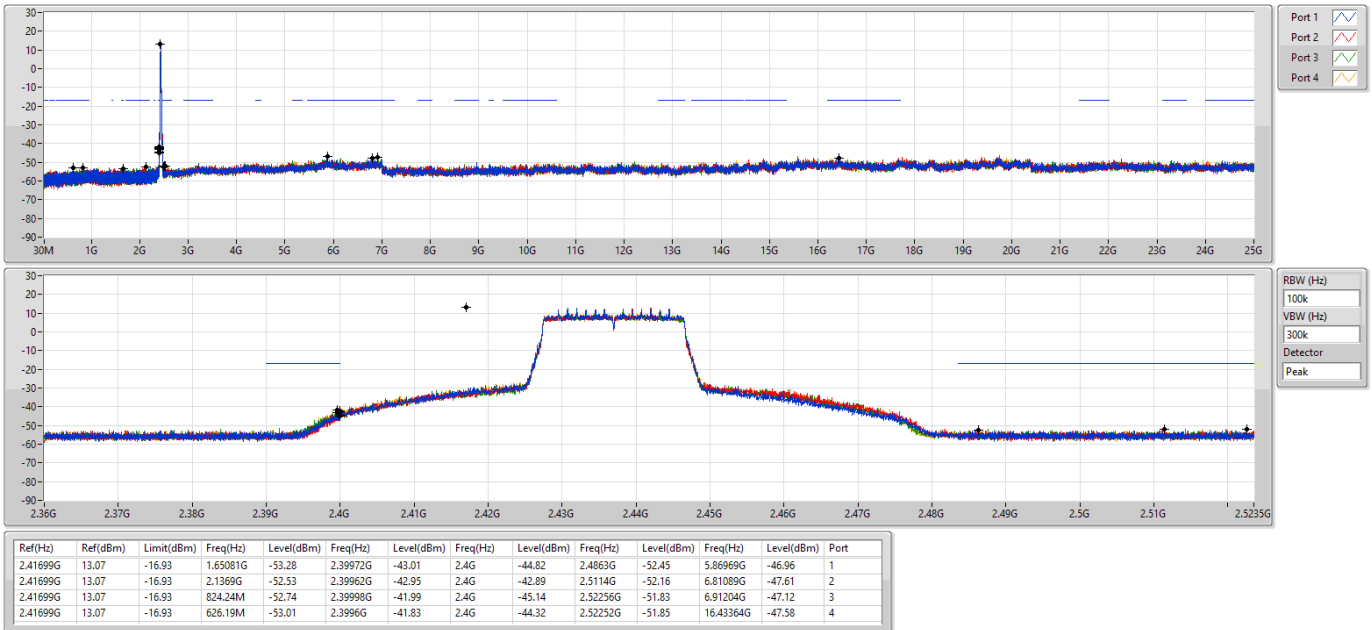
2412MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

CSENdB

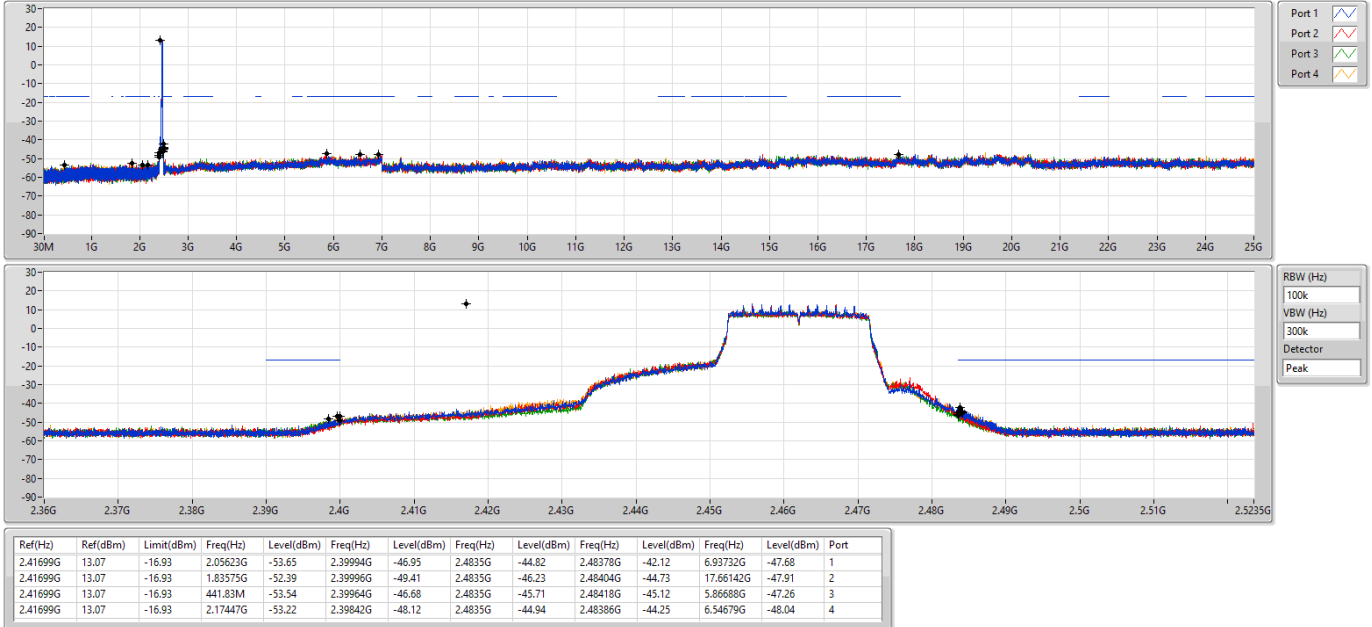
2437MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

CSENdB

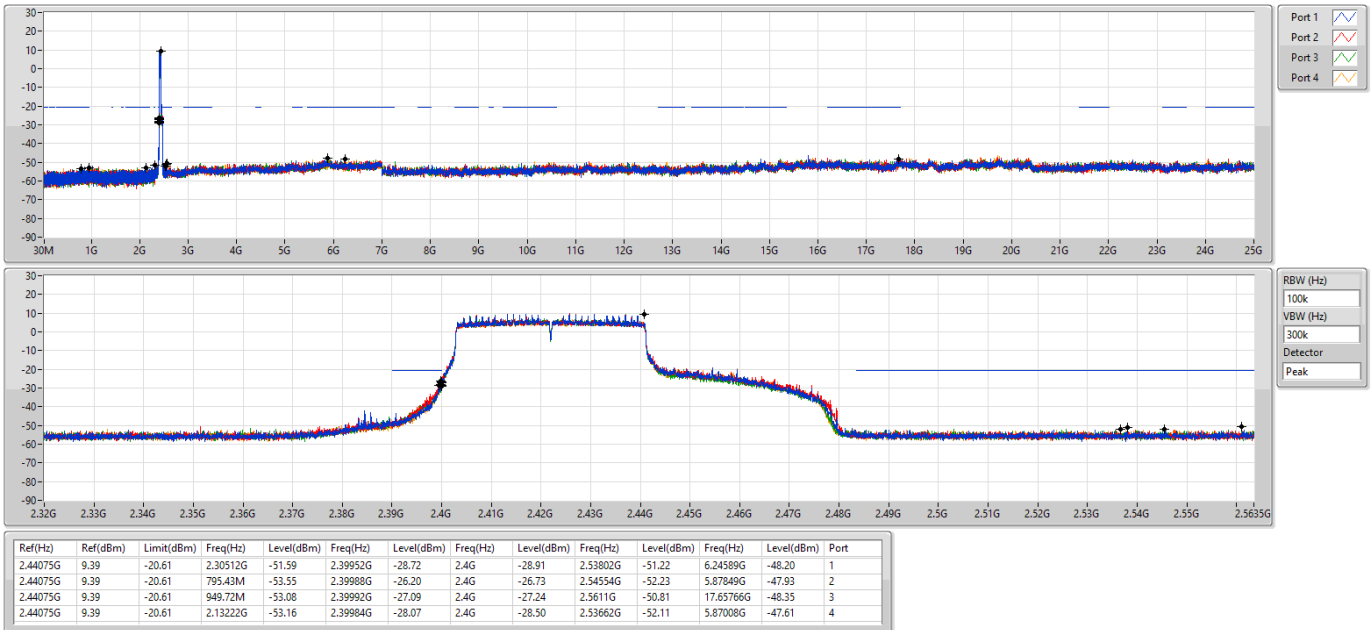
2462MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

CSENdB

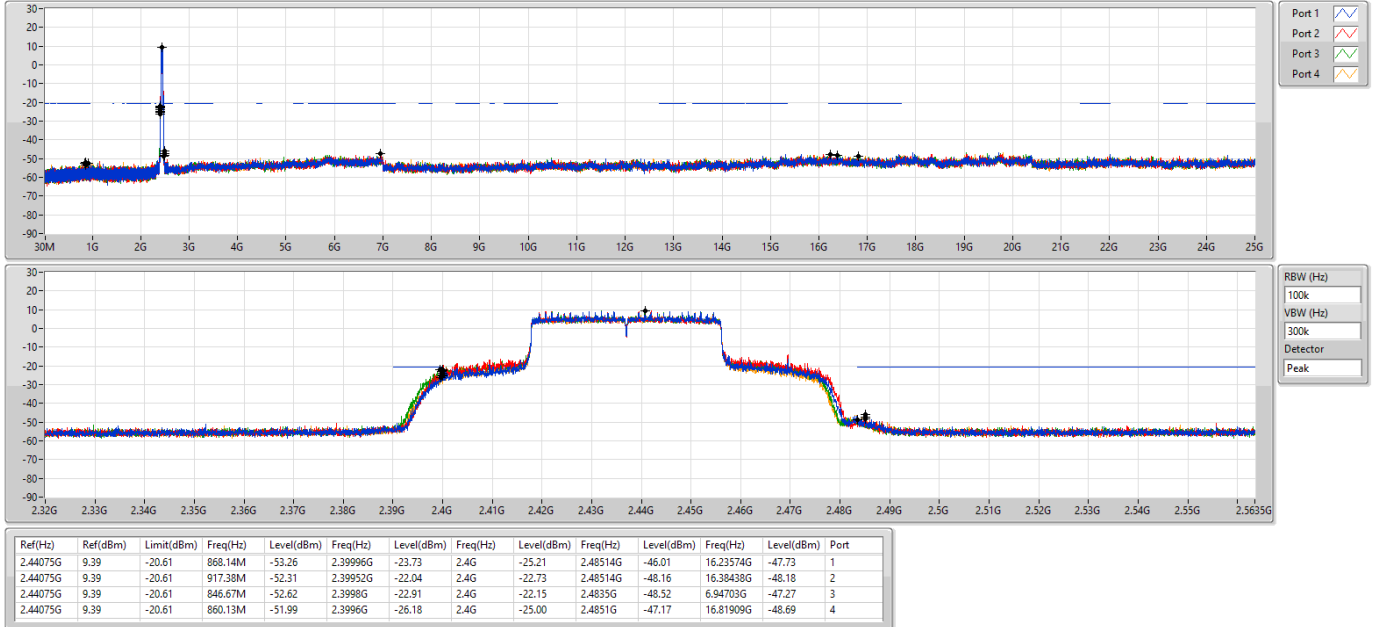
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802.11ax HEW40_Nss1,(MCS0)_4TX

CSENdB

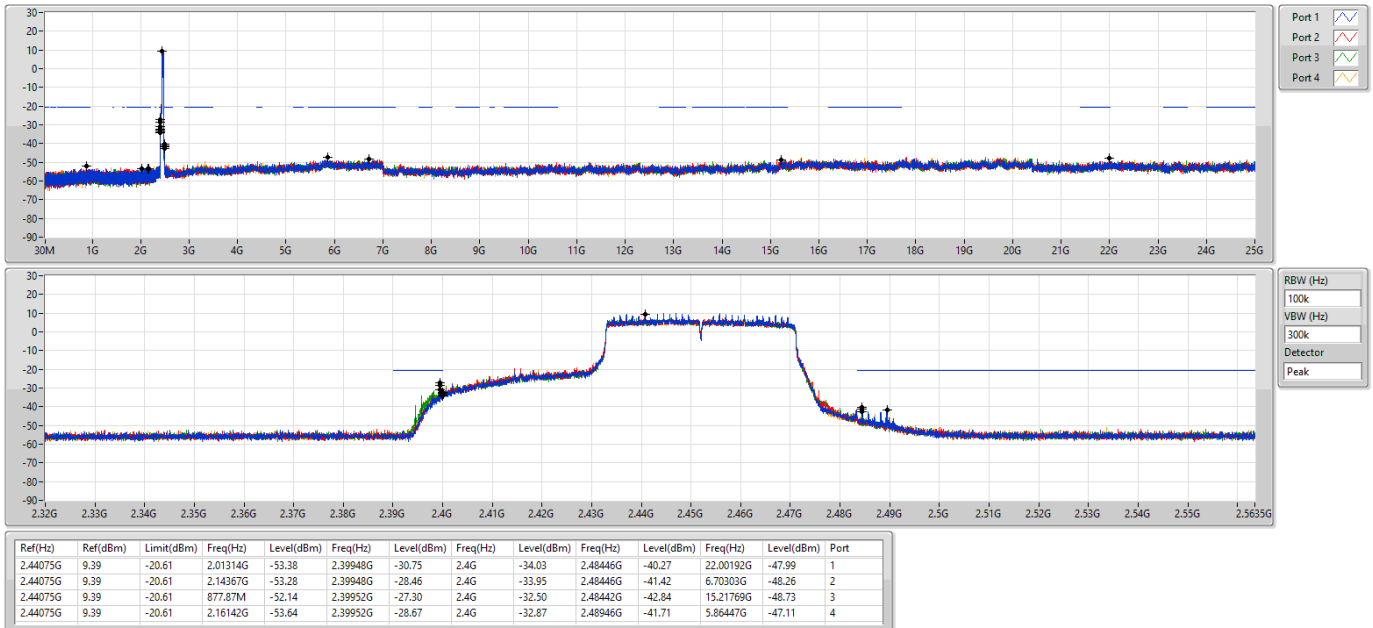
2437MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

CSENdB

2452MHz





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	2.41695G	13.21	-16.79	2.3067G	-53.86	2.39826G	-23.29	2.4G	-25.54	2.51368G	-52.10	6.49903G	-47.71	4
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	2.43198G	9.49	-20.51	2.3034G	-52.56	2.3978G	-22.17	2.4G	-22.44	2.48398G	-48.37	16.25257G	-48.31	3

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	2.41695G	13.21	-16.79	1.94584G	-52.62	2.39834G	-29.98	2.4G	-32.09	2.5166G	-51.48	16.63874G	-47.79	1
2412MHz	Pass	2.41695G	13.21	-16.79	711.53M	-53.58	2.3997G	-26.55	2.4G	-28.36	2.4873G	-52.24	6.98509G	-47.91	2
2412MHz	Pass	2.41695G	13.21	-16.79	2.03118G	-53.36	2.39886G	-26.09	2.4G	-31.80	2.49112G	-52.24	17.66704G	-48.21	3
2412MHz	Pass	2.41695G	13.21	-16.79	2.3067G	-53.86	2.39826G	-23.29	2.4G	-25.54	2.51368G	-52.10	6.49903G	-47.71	4
2437MHz	Pass	2.41695G	13.21	-16.79	929.96M	-52.71	2.39976G	-42.91	2.4G	-44.38	2.52034G	-52.13	6.02141G	-47.48	1
2437MHz	Pass	2.41695G	13.21	-16.79	2.17855G	-53.22	2.3998G	-43.14	2.4G	-43.76	2.4987G	-51.78	5.83316G	-48.26	2
2437MHz	Pass	2.41695G	13.21	-16.79	2.11564G	-52.39	2.39994G	-39.97	2.4G	-43.67	2.4934G	-52.39	16.44488G	-47.72	3
2437MHz	Pass	2.41695G	13.21	-16.79	1.78653G	-52.28	2.39946G	-42.15	2.4G	-43.28	2.50338G	-52.33	6.10007G	-47.96	4
2462MHz	Pass	2.41695G	13.21	-16.79	803.85M	-52.81	2.39958G	-49.08	2.4835G	-45.68	2.48466G	-45.66	17.62771G	-48.41	1
2462MHz	Pass	2.41695G	13.21	-16.79	2.30845G	-52.82	2.3986G	-49.06	2.4835G	-47.56	2.48352G	-44.73	16.22012G	-47.97	2
2462MHz	Pass	2.41695G	13.21	-16.79	941.03M	-53.09	2.3996G	-48.58	2.4835G	-47.91	2.48434G	-47.63	6.80808G	-47.91	3
2462MHz	Pass	2.41695G	13.21	-16.79	1.65634G	-53.43	2.39934G	-48.42	2.4835G	-48.31	2.4846G	-42.96	5.87812G	-47.36	4
802.11ax HEW40-BF_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	9.49	-20.51	619.68M	-53.00	2.4G	-28.81	2.4G	-28.85	2.50606G	-52.03	15.22049G	-48.37	1
2422MHz	Pass	2.43198G	9.49	-20.51	748.49M	-51.74	2.4G	-27.49	2.4G	-27.85	2.48406G	-52.06	5.84764G	-47.10	2
2422MHz	Pass	2.43198G	9.49	-20.51	340.58M	-53.19	2.4G	-27.65	2.4G	-27.76	2.53286G	-51.01	6.47306G	-48.21	3
2422MHz	Pass	2.43198G	9.49	-20.51	622.25M	-53.22	2.3998G	-27.76	2.4G	-27.66	2.55142G	-52.11	5.92337G	-48.01	4
2437MHz	Pass	2.43198G	9.49	-20.51	1.6539G	-52.96	2.39984G	-25.20	2.4G	-24.80	2.48514G	-45.69	17.62961G	-46.48	1
2437MHz	Pass	2.43198G	9.49	-20.51	942.28M	-53.24	2.39984G	-22.98	2.4G	-23.98	2.48434G	-46.67	5.86447G	-47.69	2
2437MHz	Pass	2.43198G	9.49	-20.51	2.3034G	-52.56	2.3978G	-22.17	2.4G	-22.44	2.48398G	-48.37	16.25257G	-48.31	3
2437MHz	Pass	2.43198G	9.49	-20.51	2.18747G	-53.30	2.3998G	-25.88	2.4G	-24.86	2.48422G	-46.81	5.83642G	-47.66	4
2452MHz	Pass	2.43198G	9.49	-20.51	946.57M	-52.63	2.39952G	-29.60	2.4G	-34.12	2.48946G	-42.30	17.68009G	-47.35	1
2452MHz	Pass	2.43198G	9.49	-20.51	2.30941G	-53.80	2.39956G	-29.67	2.4G	-35.04	2.48454G	-42.74	6.96386G	-48.50	2
2452MHz	Pass	2.43198G	9.49	-20.51	2.09558G	-53.44	2.39952G	-26.74	2.4G	-32.19	2.48946G	-42.23	16.46291G	-47.81	3
2452MHz	Pass	2.43198G	9.49	-20.51	932.83M	-53.52	2.39948G	-29.16	2.4G	-34.21	2.48442G	-43.98	16.23013G	-47.70	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

CSENdB

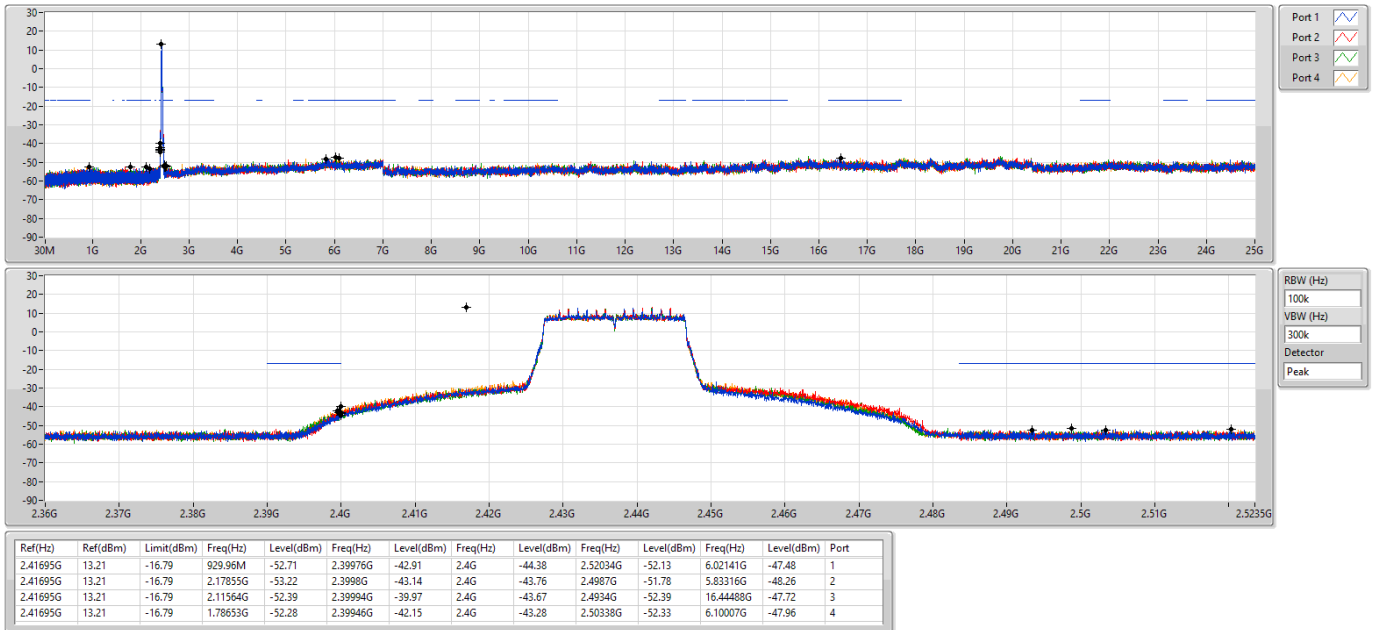
2412MHz



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

CSENdB

2437MHz

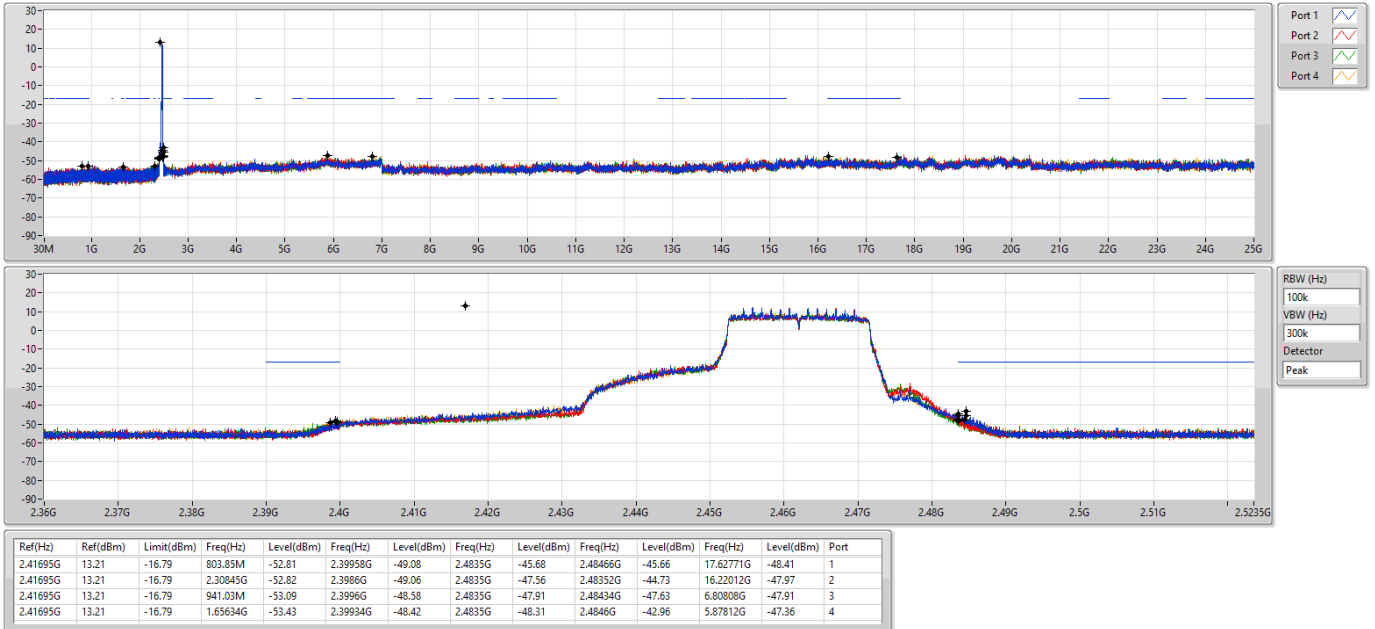


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

CSENdB

2462MHz

06/09/2021

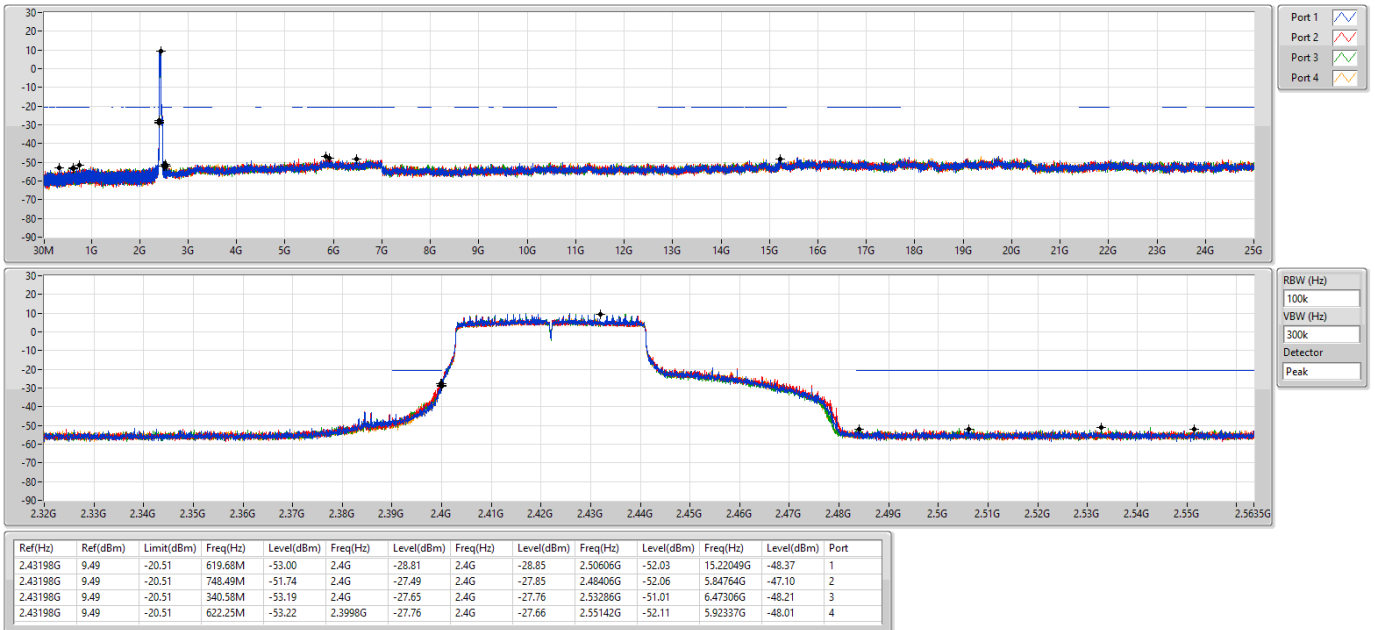


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

CSENdB

2422MHz

06/09/2021

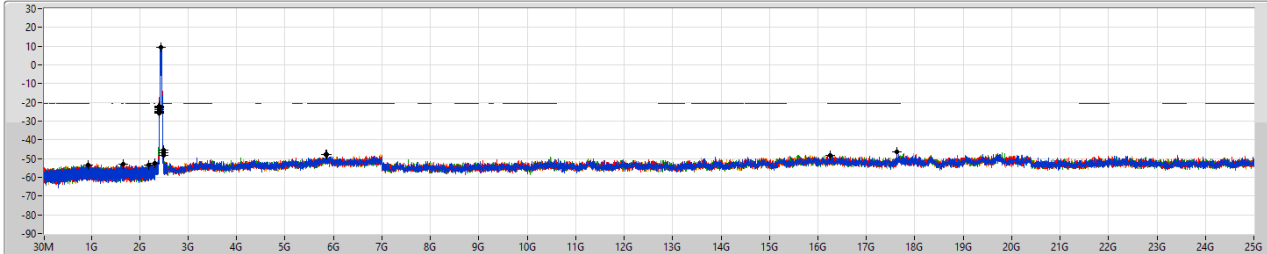


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

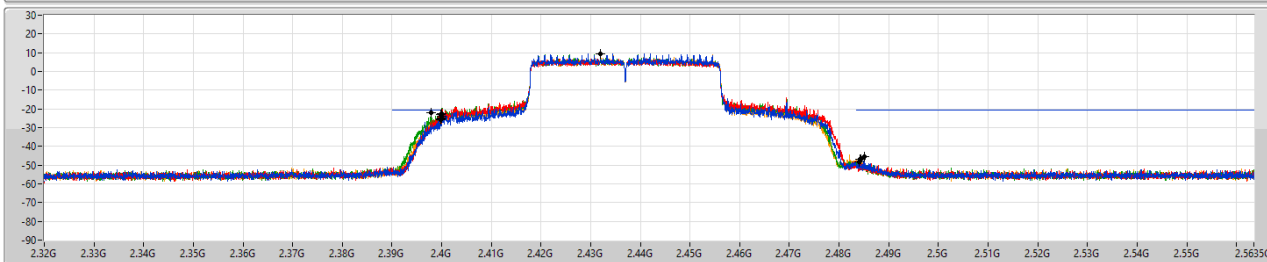
CSENdB

2437MHz

06/09/2021



Port 1
Port 2
Port 3
Port 4



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

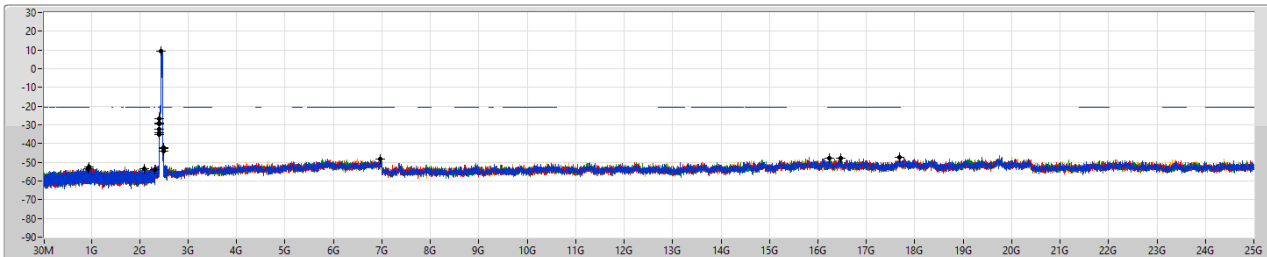
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	9.49	-20.51	1.6539G	-52.96	2.39984G	-25.20	2.4G	-24.80	2.48514G	-45.69	17.62961G	-46.48	1
2.43198G	9.49	-20.51	942.28M	-53.24	2.39984G	-22.98	2.4G	-23.98	2.48434G	-46.67	5.86447G	-47.69	2
2.43198G	9.49	-20.51	2.3034G	-52.56	2.3978G	-22.17	2.4G	-22.44	2.48398G	-48.37	16.25257G	-48.31	3
2.43198G	9.49	-20.51	2.18747G	-53.30	2.3998G	-25.88	2.4G	-24.86	2.48422G	-46.81	5.83642G	-47.66	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

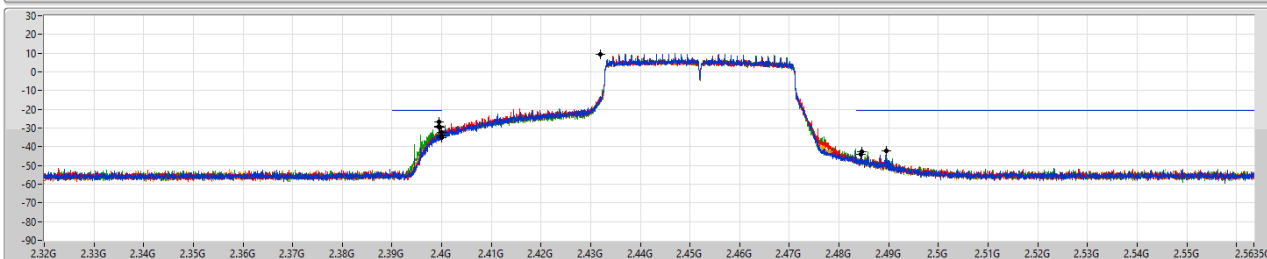
CSENdB

2452MHz

06/09/2021



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
2.43198G	9.49	-20.51	946.57M	-52.63	2.39953G	-29.60	2.4G	-34.12	2.48946G	-42.30	17.68009G	-47.35	1
2.43198G	9.49	-20.51	2.30941G	-53.80	2.39956G	-29.67	2.4G	-35.04	2.48454G	-42.74	6.96386G	-48.50	2
2.43198G	9.49	-20.51	2.0959G	-53.44	2.39953G	-26.74	2.4G	-32.19	2.48946G	-42.23	16.46391G	-47.81	3
2.43198G	9.49	-20.51	932.83M	-53.52	2.39948G	-29.16	2.4G	-34.21	2.48442G	-43.98	16.23013G	-47.70	4



Radiated Emissions below 1GHz

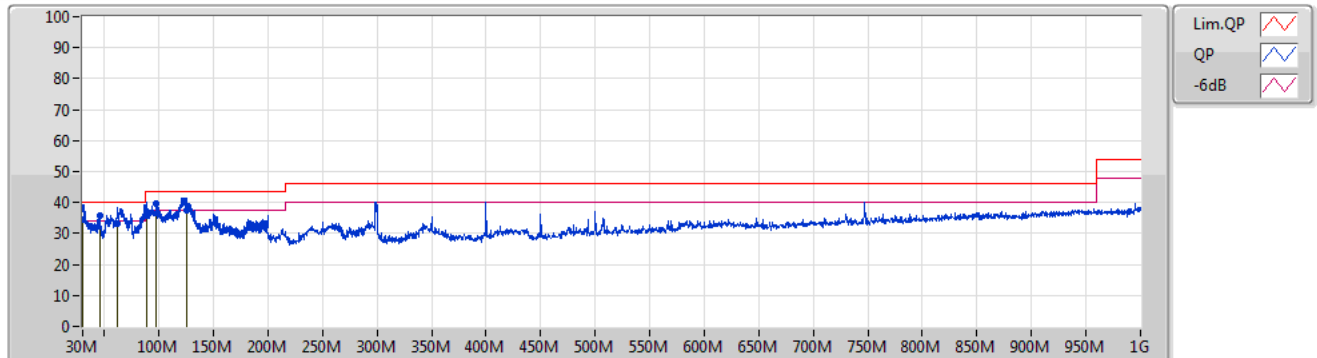
Appendix F.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	46.07M	35.95	40.00	-4.05	Vertical

Mode 2

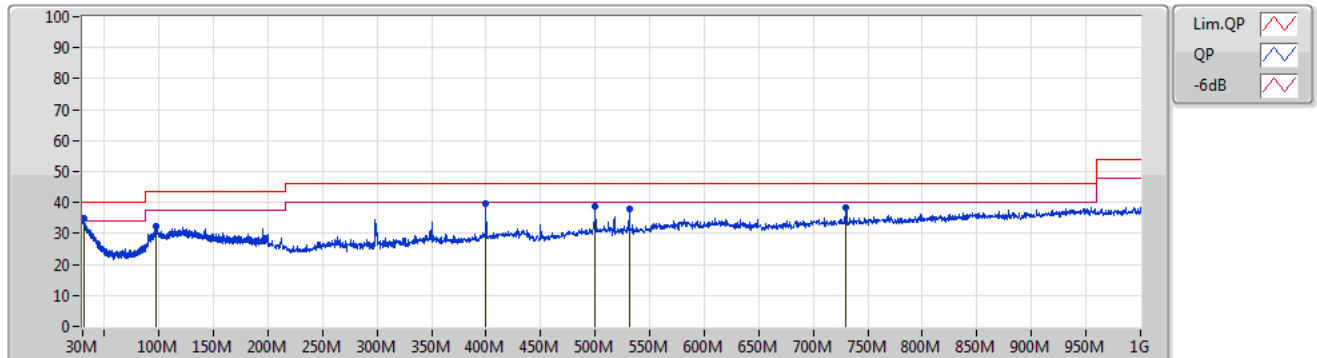
16/09/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
QP	30M	34.30	40.00	-5.70	-3.09	3	Vertical	43	1.00	-	37.39	23.79	1.00	27.88
PK	46.07M	35.95	40.00	-4.05	-11.20	3	Vertical	247	1.00	"Worst"	47.15	15.31	1.42	27.93
QP	62.05M	33.30	40.00	-6.70	-13.64	3	Vertical	97	2.00	-	46.94	12.44	1.74	27.82
QP	88.23M	36.08	43.50	-7.42	-11.14	3	Vertical	58	4.00	-	47.22	14.51	2.20	27.85
PK	97.49M	39.45	43.50	-4.05	-9.10	3	Vertical	54	2.00	-	48.55	16.37	2.35	27.82
QP	125.03M	37.55	43.50	-5.95	-6.71	3	Vertical	193	1.00	-	44.26	18.12	2.78	27.61

16/09/2021

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	31.45M	34.85	40.00	-5.15	-3.65	3	Horizontal	213	1.00	"Worst"	38.50	23.18	1.06	27.89
PK	97.07M	32.31	43.50	-11.19	-9.19	3	Horizontal	359	1.00	-	41.50	16.29	2.34	27.82
PK	400M	39.78	46.00	-6.22	-6.81	3	Horizontal	294	4.00	-	46.59	16.23	4.30	27.34
PK	500M	38.63	46.00	-7.37	-5.58	3	Horizontal	297	2.00	-	44.21	17.52	4.80	27.90
PK	531.6M	38.12	46.00	-7.88	-5.04	3	Horizontal	359	2.00	-	43.16	17.88	4.99	27.91
PK	729.6M	38.40	46.00	-7.60	-1.00	3	Horizontal	9	2.00	-	39.40	20.70	5.92	27.62

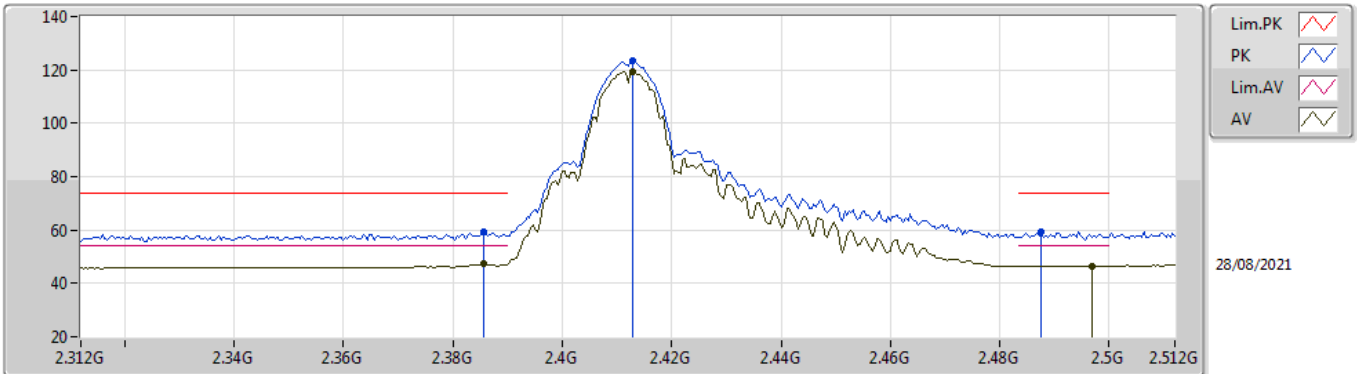


Summary

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_Nss1.(MCS0)_4TX	Pass	AV	2.39G	53.91	54.00	-0.09	3	Vertical	281	2.49	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

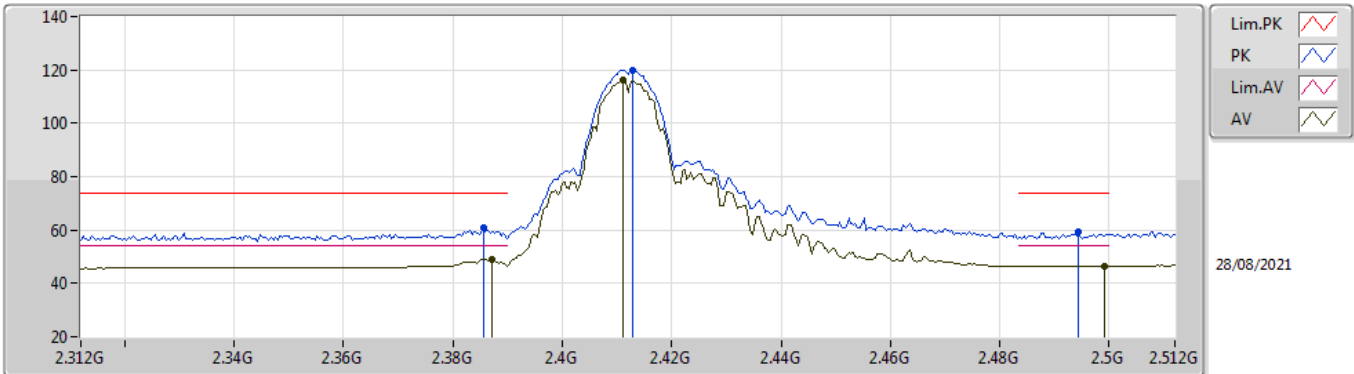


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3856G	59.17	74.00	-14.83	28.39	3	Vertical	326	1.80	-	28.37	2.41	-
AV	2.3856G	47.49	54.00	-6.51	16.71	3	Vertical	326	1.80	-	28.37	2.41	-
PK	2.4128G	123.22	Inf	-Inf	92.41	3	Vertical	326	1.80	-	28.40	2.41	-
AV	2.4128G	119.33	Inf	-Inf	88.52	3	Vertical	326	1.80	-	28.40	2.41	-
PK	2.4876G	59.17	74.00	-14.83	28.18	3	Vertical	326	1.80	-	28.55	2.44	-
AV	2.4968G	46.53	54.00	-7.47	15.49	3	Vertical	326	1.80	-	28.59	2.45	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

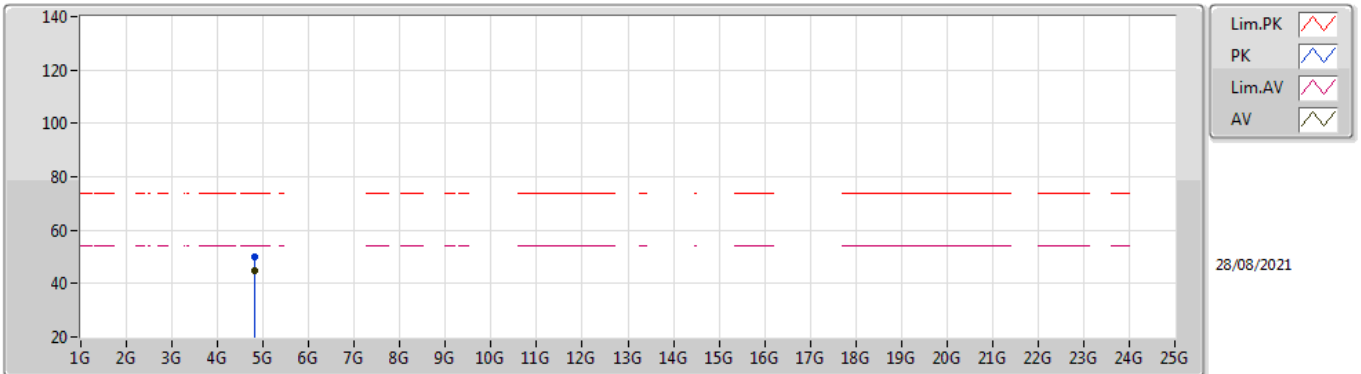


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3856G	60.72	74.00	-13.28	29.94	3	Horizontal	139	1.80	-	28.37	2.41	-
AV	2.3872G	49.15	54.00	-4.85	18.37	3	Horizontal	139	1.80	-	28.37	2.41	-
PK	2.4128G	120.04	Inf	-Inf	89.23	3	Horizontal	139	1.80	-	28.40	2.41	-
AV	2.4112G	116.03	Inf	-Inf	85.22	3	Horizontal	139	1.80	-	28.40	2.41	-
PK	2.4944G	59.25	74.00	-14.75	28.22	3	Horizontal	139	1.80	-	28.58	2.45	-
AV	2.4992G	46.51	54.00	-7.49	15.46	3	Horizontal	139	1.80	-	28.60	2.45	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

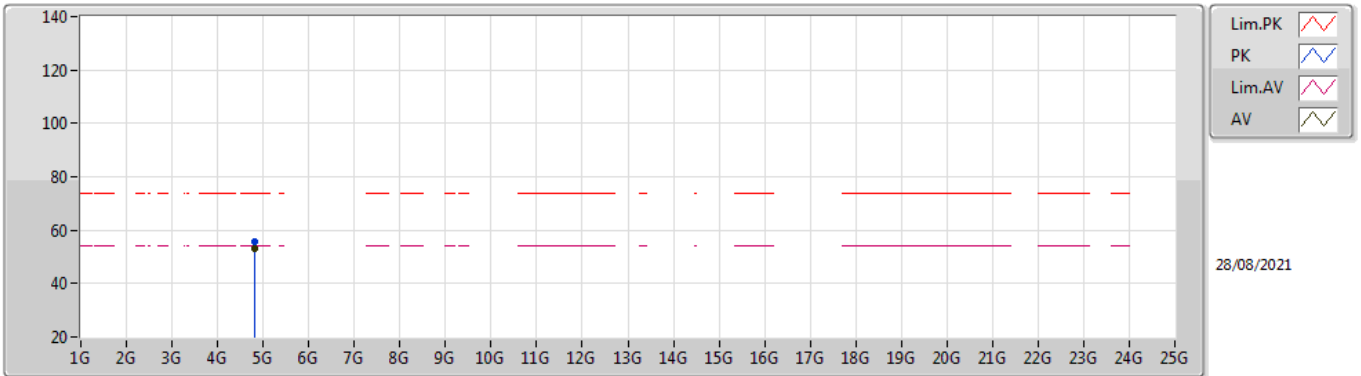


EUT Y_4TX
Setting 108
02-B-G-2

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	4.82411G	49.87	74.00	-24.13	44.59	3	Vertical	71	1.01	-	32.80	4.70	32.22
AV	4.82401G	44.74	54.00	-9.26	39.46	3	Vertical	71	1.01	-	32.80	4.70	32.22

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

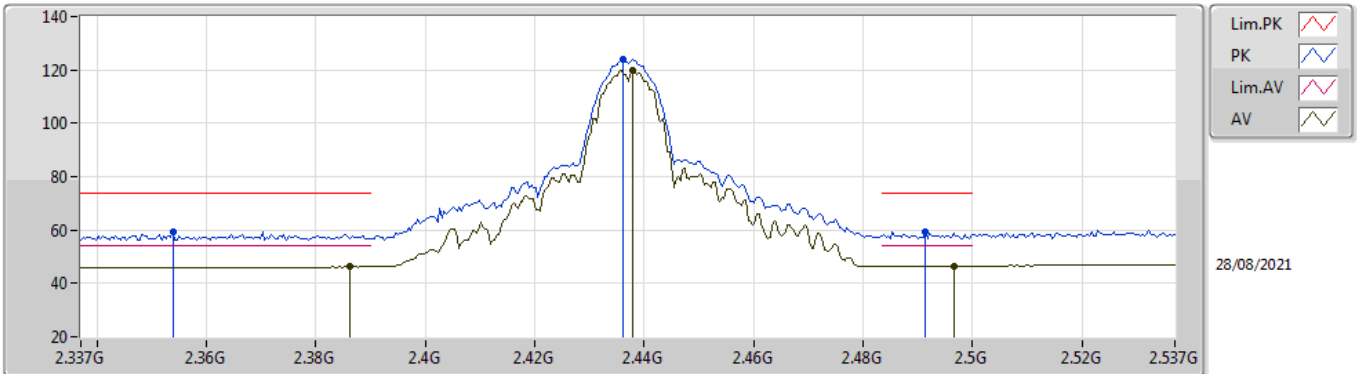


EUT_Y_4TX
Setting 108
02-B-G-2

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	4.824G	55.60	74.00	-18.40	50.32	3	Horizontal	258	2.08	-	32.80	4.70	32.22	
AV	4.824G	53.10	54.00	-0.90	47.82	3	Horizontal	258	2.08	-	32.80	4.70	32.22	

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

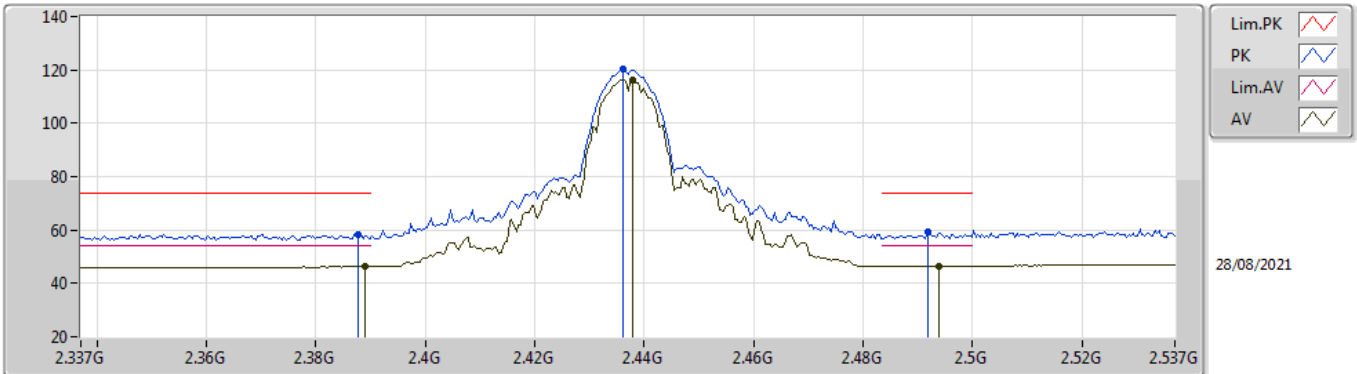


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3538G	59.45	74.00	-14.55	28.72	3	Vertical	27	2.24	-	28.31	2.42	-
AV	2.3862G	46.23	54.00	-7.77	15.45	3	Vertical	27	2.24	-	28.37	2.41	-
PK	2.4362G	123.80	Inf	-Inf	92.98	3	Vertical	27	2.24	-	28.40	2.42	-
AV	2.4378G	119.81	Inf	-Inf	88.99	3	Vertical	27	2.24	-	28.40	2.42	-
PK	2.4914G	59.47	74.00	-14.53	28.45	3	Vertical	27	2.24	-	28.57	2.45	-
AV	2.4966G	46.53	54.00	-7.47	15.49	3	Vertical	27	2.24	-	28.59	2.45	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

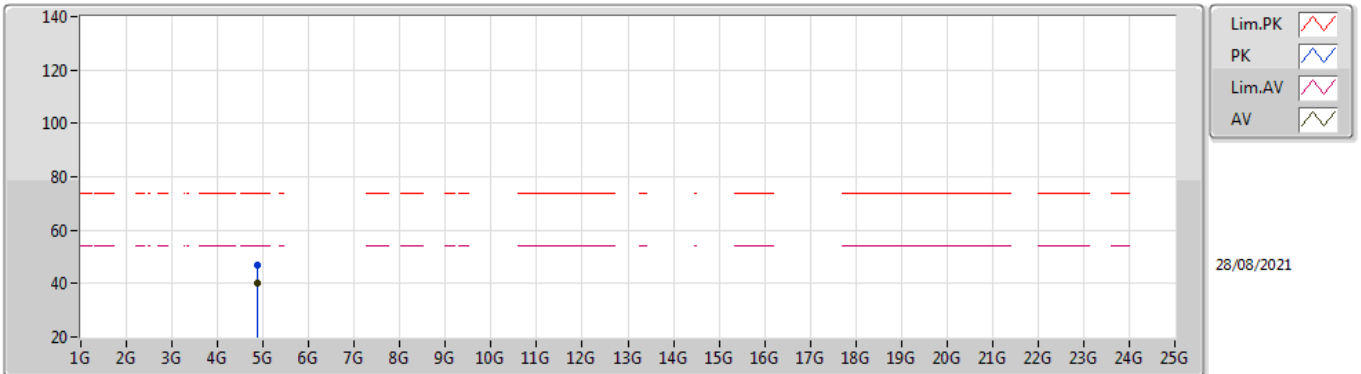


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3878G	58.52	74.00	-15.48	27.73	3	Horizontal	142	1.91	-	28.38	2.41	-
AV	2.389G	46.24	54.00	-7.76	15.45	3	Horizontal	142	1.91	-	28.38	2.41	-
PK	2.4362G	120.20	Inf	-Inf	89.38	3	Horizontal	142	1.91	-	28.40	2.42	-
AV	2.4378G	116.16	Inf	-Inf	85.34	3	Horizontal	142	1.91	-	28.40	2.42	-
PK	2.4918G	59.21	74.00	-14.79	28.19	3	Horizontal	142	1.91	-	28.57	2.45	-
AV	2.4938G	46.59	54.00	-7.41	15.56	3	Horizontal	142	1.91	-	28.58	2.45	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

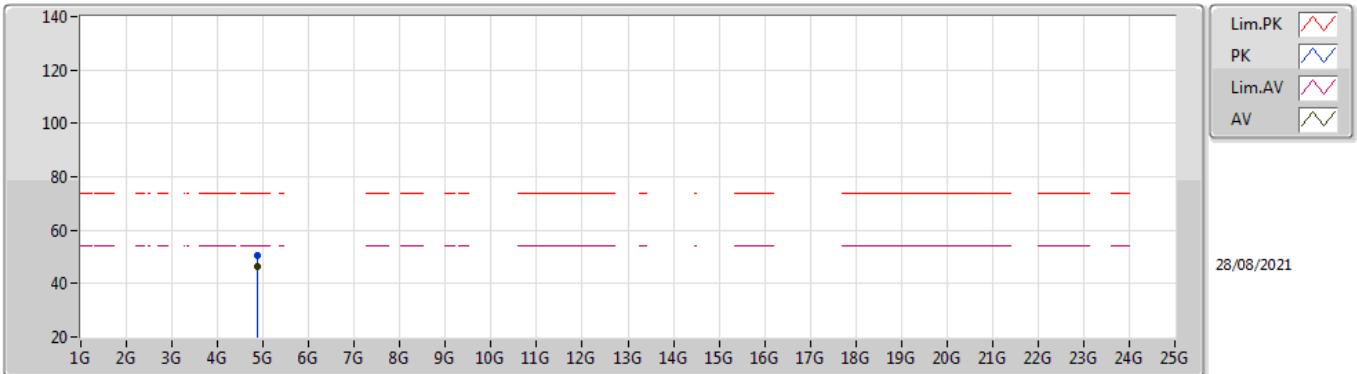


EUT Y_4TX
Setting 108
02-B-G-2

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	4.8739G	47.12	74.00	-26.88	41.68	3	Vertical	62	1.73	-	32.95	4.70	32.21
AV	4.87396G	40.09	54.00	-13.91	34.65	3	Vertical	62	1.73	-	32.95	4.70	32.21

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

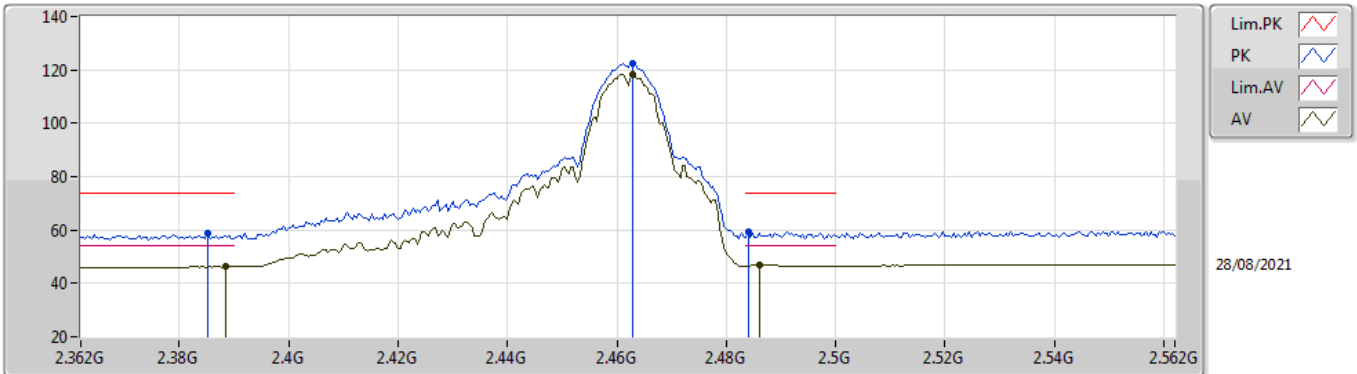


EUT Y_4TX
Setting 108
02-B-G-2

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	4.874G	50.45	74.00	-23.55	45.01	3	Horizontal	111	3.00	-	32.95	4.70	32.21	
AV	4.87398G	46.29	54.00	-7.71	40.85	3	Horizontal	111	3.00	-	32.95	4.70	32.21	

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

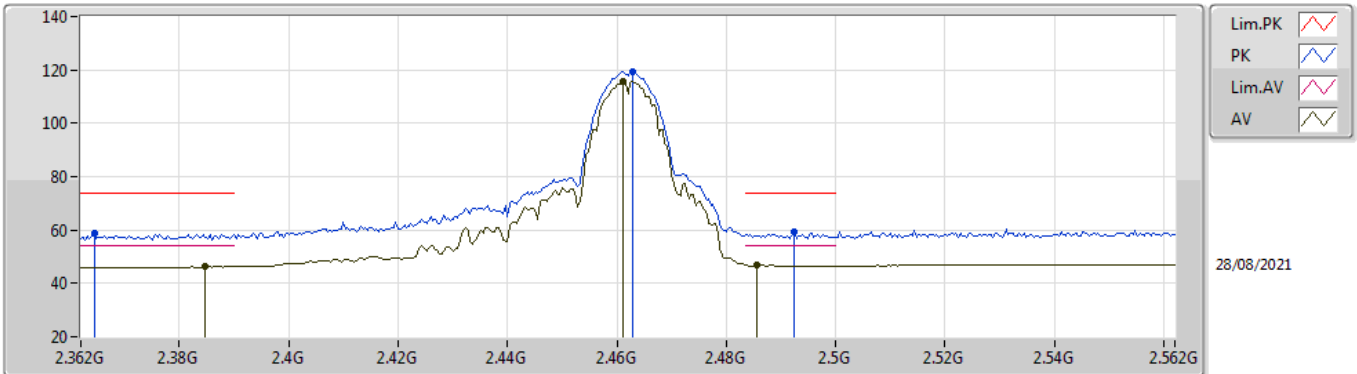


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3852G	59.00	74.00	-15.00	28.22	3	Vertical	328	1.78	-	28.37	2.41	-
AV	2.3884G	46.23	54.00	-7.77	15.44	3	Vertical	328	1.78	-	28.38	2.41	-
PK	2.4628G	122.21	Inf	-Inf	91.33	3	Vertical	328	1.78	-	28.45	2.43	-
AV	2.4628G	118.19	Inf	-Inf	87.31	3	Vertical	328	1.78	-	28.45	2.43	-
PK	2.484G	59.29	74.00	-14.71	28.31	3	Vertical	328	1.78	-	28.54	2.44	-
AV	2.486G	47.15	54.00	-6.85	16.17	3	Vertical	328	1.78	-	28.54	2.44	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

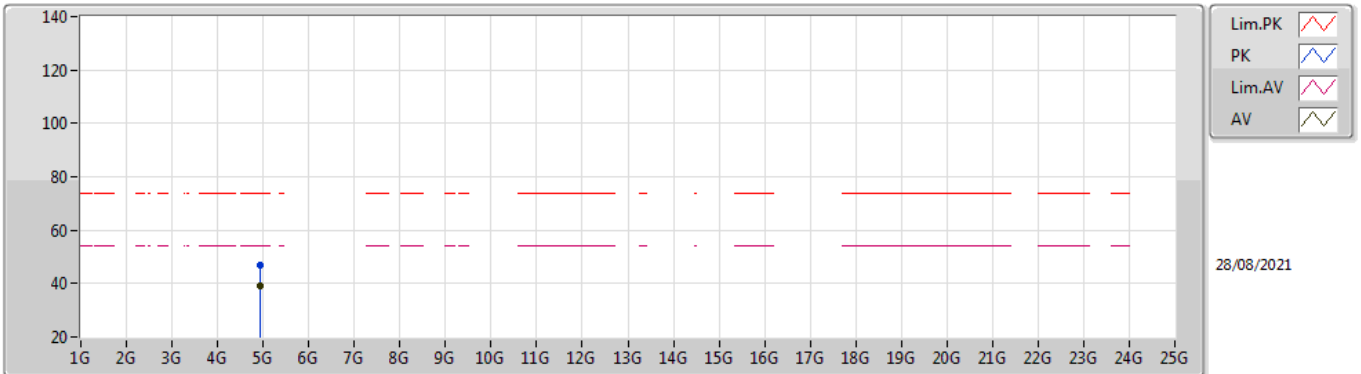


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3644G	58.73	74.00	-15.27	27.98	3	Horizontal	136	1.65	-	28.33	2.42	-
AV	2.3848G	46.20	54.00	-7.80	15.42	3	Horizontal	136	1.65	-	28.37	2.41	-
PK	2.4628G	119.47	Inf	-Inf	88.59	3	Horizontal	136	1.65	-	28.45	2.43	-
AV	2.4612G	115.76	Inf	-Inf	84.89	3	Horizontal	136	1.65	-	28.44	2.43	-
PK	2.4924G	59.25	74.00	-14.75	28.23	3	Horizontal	136	1.65	-	28.57	2.45	-
AV	2.4856G	46.82	54.00	-7.18	15.84	3	Horizontal	136	1.65	-	28.54	2.44	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

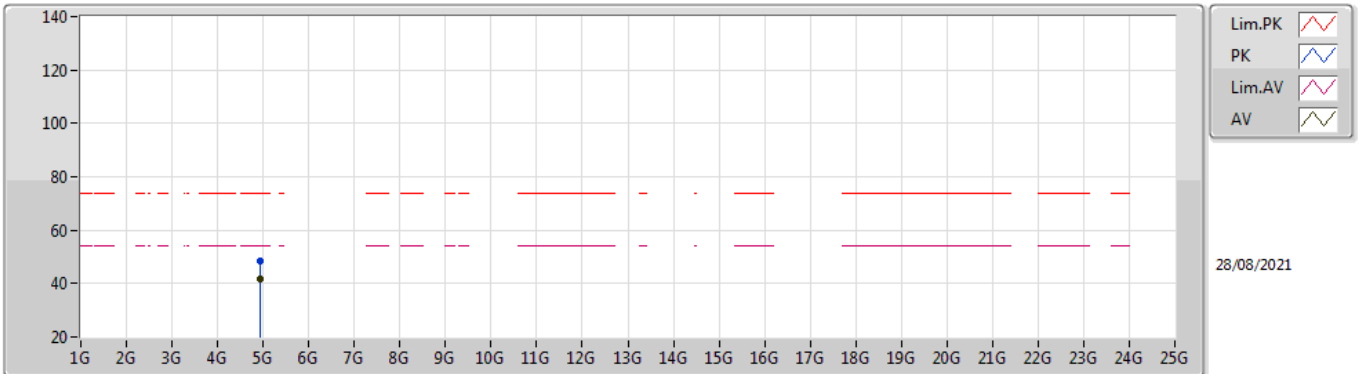


EUT Y_4TX
Setting 108
02-B-G-2

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	4.92402G	47.05	74.00	-26.95	41.40	3	Vertical	23	2.32	-	33.14	4.70	32.19
AV	4.92398G	39.13	54.00	-14.87	33.48	3	Vertical	23	2.32	-	33.14	4.70	32.19

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

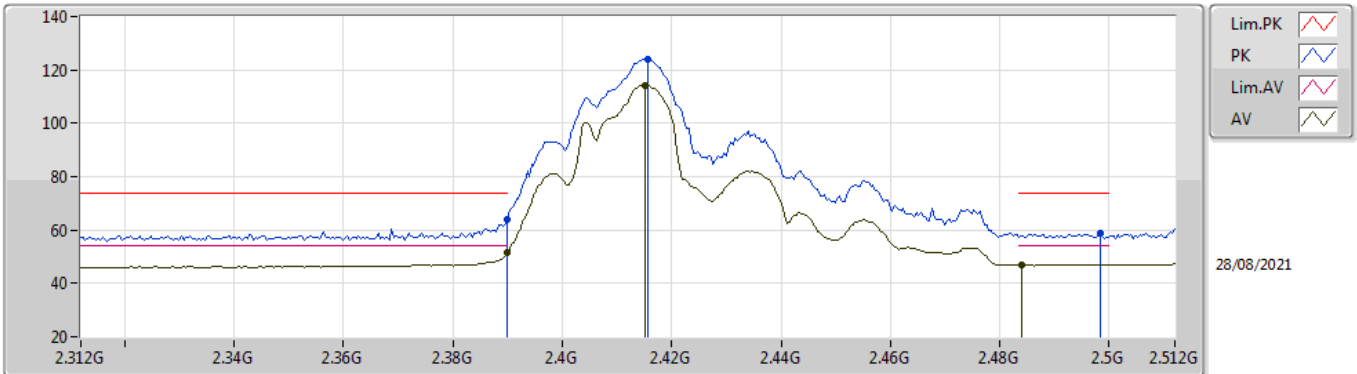


EUT Y_4TX
Setting 108
02-B-G-2

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	4.9239G	48.61	74.00	-25.39	42.96	3	Horizontal	47	1.80	-	33.14	4.70	32.19
AV	4.92399G	41.77	54.00	-12.23	36.12	3	Horizontal	47	1.80	-	33.14	4.70	32.19

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

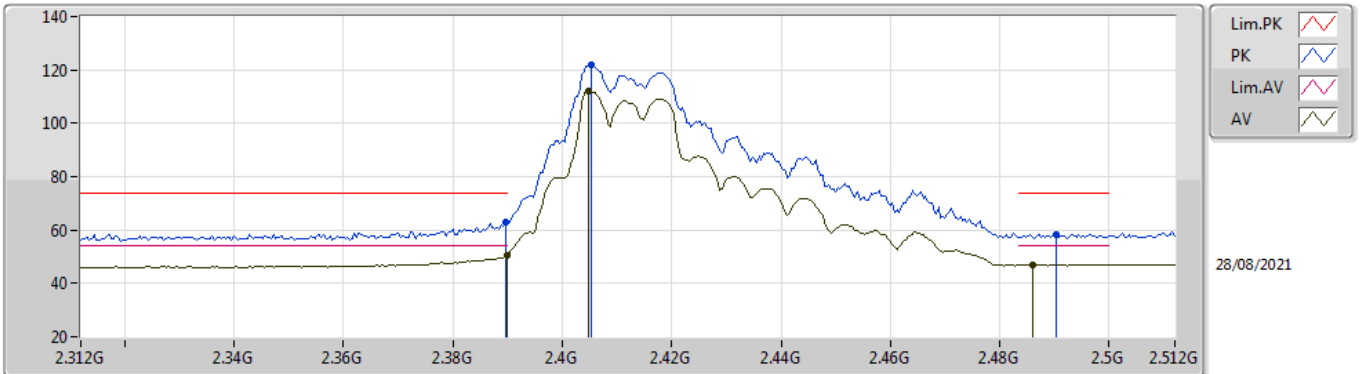


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.39G	64.20	74.00	-9.80	33.41	3	Vertical	308	1.71	-	28.38	2.41	-
AV	2.39G	51.39	54.00	-2.61	20.60	3	Vertical	308	1.71	-	28.38	2.41	-
PK	2.4156G	123.87	Inf	-Inf	93.06	3	Vertical	308	1.71	-	28.40	2.41	-
AV	2.4152G	114.19	Inf	-Inf	83.38	3	Vertical	308	1.71	-	28.40	2.41	-
PK	2.4984G	58.75	74.00	-15.25	27.71	3	Vertical	308	1.71	-	28.59	2.45	-
AV	2.484G	46.94	54.00	-7.06	15.96	3	Vertical	308	1.71	-	28.54	2.44	-

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

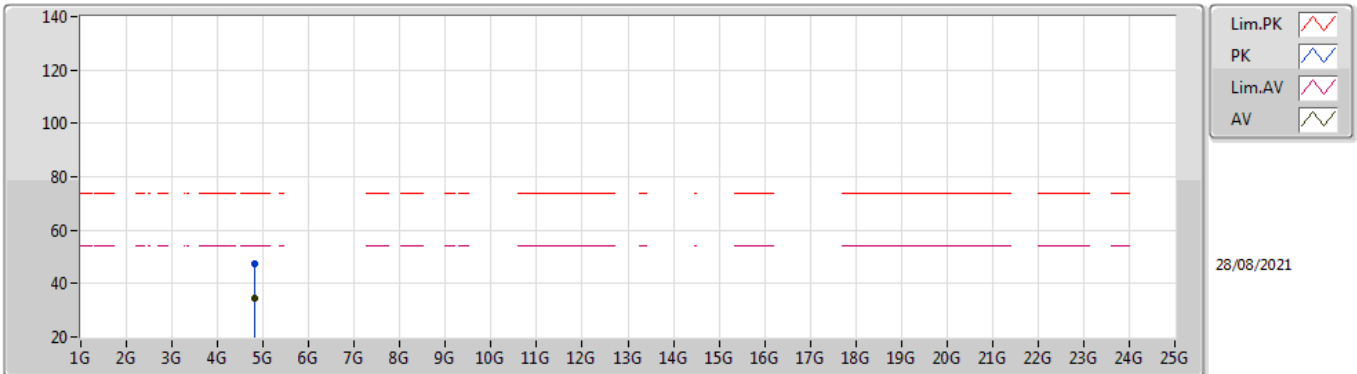


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3896G	63.05	74.00	-10.95	32.26	3	Horizontal	72	2.16	-	28.38	2.41	-
AV	2.39G	50.38	54.00	-3.62	19.59	3	Horizontal	72	2.16	-	28.38	2.41	-
PK	2.4052G	121.76	Inf	-Inf	90.96	3	Horizontal	72	2.16	-	28.40	2.40	-
AV	2.4048G	112.05	Inf	-Inf	81.25	3	Horizontal	72	2.16	-	28.40	2.40	-
PK	2.4904G	58.34	74.00	-15.66	27.33	3	Horizontal	72	2.16	-	28.56	2.45	-
AV	2.486G	46.96	54.00	-7.04	15.98	3	Horizontal	72	2.16	-	28.54	2.44	-

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

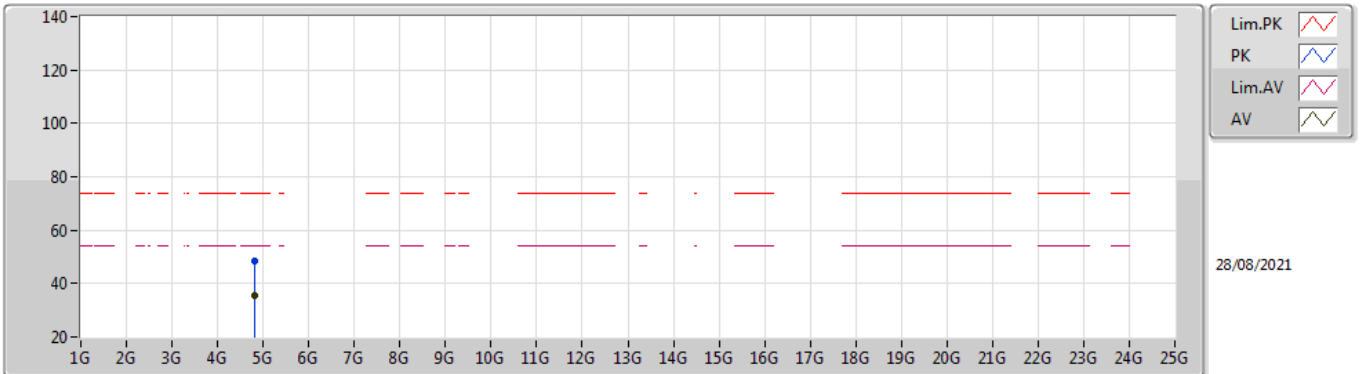


EUT_Y_4TX
Setting 108
02-B-G-2

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	4.82718G	47.33	74.00	-26.67	42.04	3	Vertical	111	2.90	-	32.81	4.70	32.22
AV	4.82658G	34.39	54.00	-19.61	29.10	3	Vertical	111	2.90	-	32.81	4.70	32.22

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

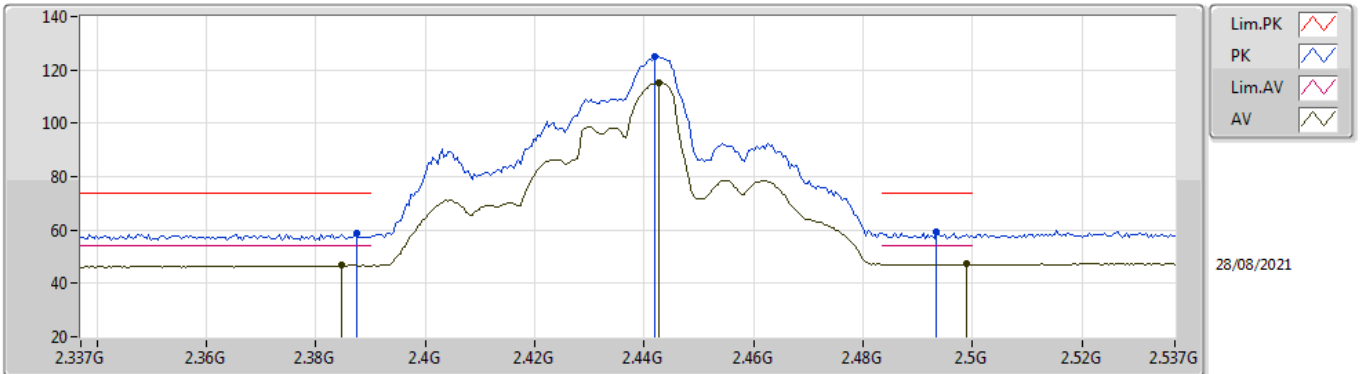


EUT Y_4TX
Setting 108
02-B-G-2

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	4.82676G	48.47	74.00	-25.53	43.18	3	Horizontal	112	2.92	-	32.81	4.70	32.22	
AV	4.82696G	35.28	54.00	-18.72	29.99	3	Horizontal	112	2.92	-	32.81	4.70	32.22	

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

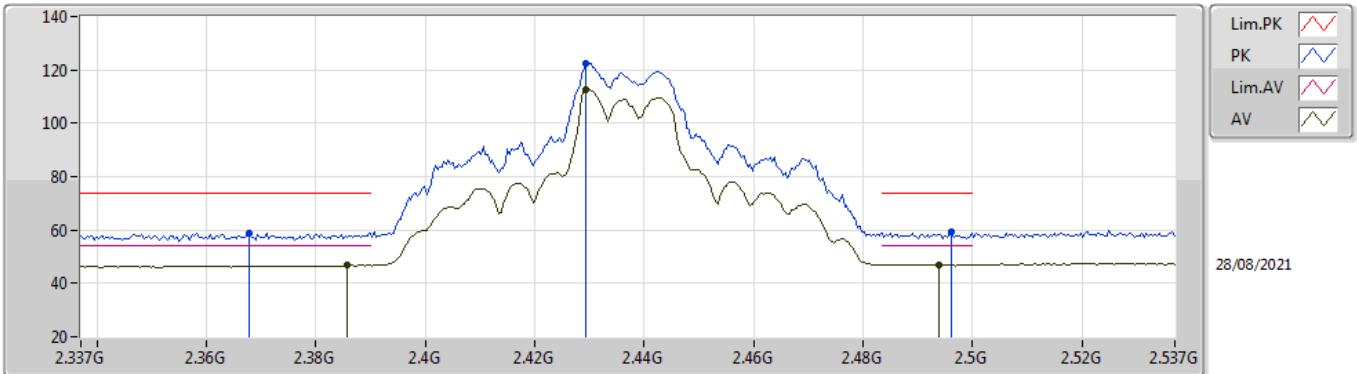


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3874G	58.58	74.00	-15.42	27.80	3	Vertical	290	2.24	-	28.37	2.41	-
AV	2.3846G	46.79	54.00	-7.21	16.01	3	Vertical	290	2.24	-	28.37	2.41	-
PK	2.4418G	124.98	Inf	-Inf	94.16	3	Vertical	290	2.24	-	28.40	2.42	-
AV	2.4426G	115.10	Inf	-Inf	84.28	3	Vertical	290	2.24	-	28.40	2.42	-
PK	2.4934G	59.12	74.00	-14.88	28.10	3	Vertical	290	2.24	-	28.57	2.45	-
AV	2.499G	47.22	54.00	-6.78	16.17	3	Vertical	290	2.24	-	28.60	2.45	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

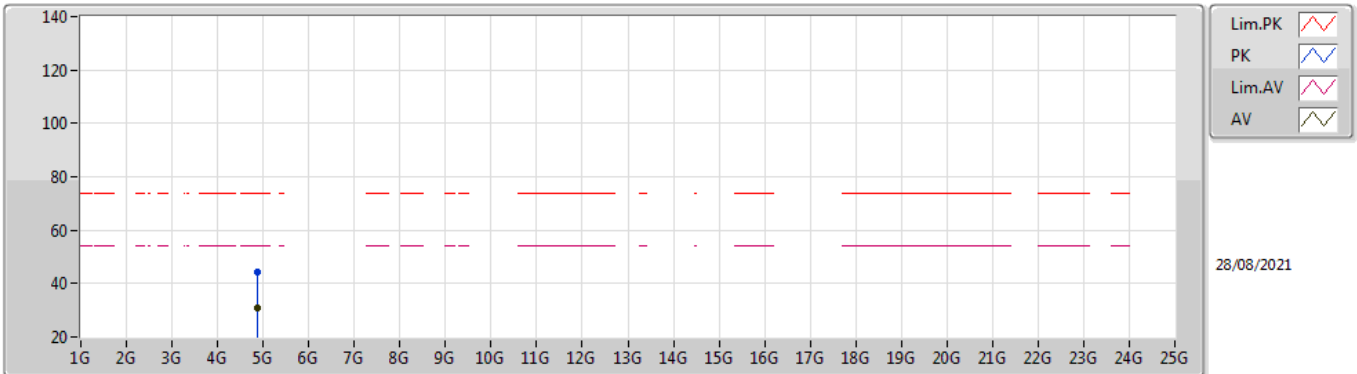


EUT Y_4TX
Setting 108
02-B-G-2

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	2.3678G	59.04	74.00	-14.96	28.28	3	Horizontal	70	2.15	-	28.34	2.42	-
AV	2.3858G	46.88	54.00	-7.12	16.10	3	Horizontal	70	2.15	-	28.37	2.41	-
PK	2.4294G	122.38	Inf	-Inf	91.57	3	Horizontal	70	2.15	-	28.40	2.41	-
AV	2.4294G	112.59	Inf	-Inf	81.78	3	Horizontal	70	2.15	-	28.40	2.41	-
PK	2.4962G	59.28	74.00	-14.72	28.25	3	Horizontal	70	2.15	-	28.58	2.45	-
AV	2.4938G	47.05	54.00	-6.95	16.02	3	Horizontal	70	2.15	-	28.58	2.45	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

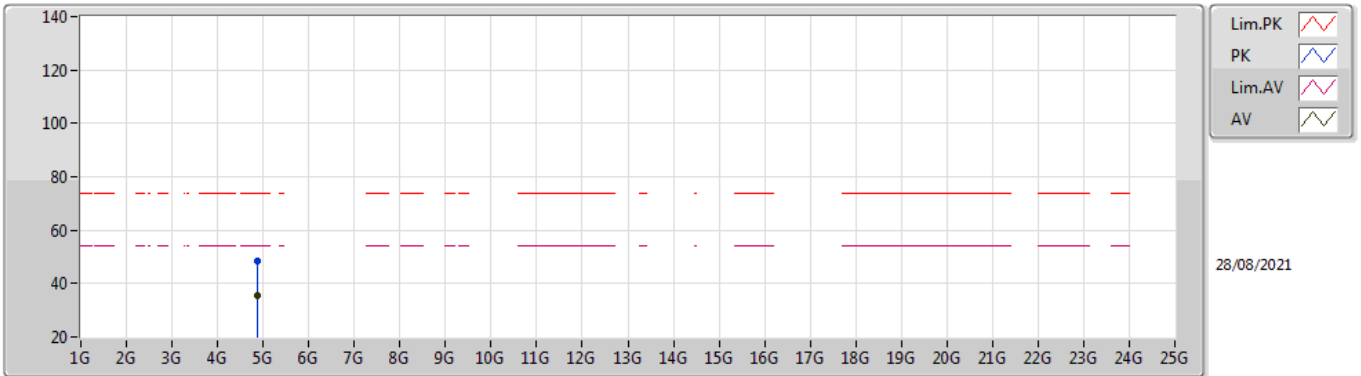


EUT_Y_4TX
Setting 108
02-B-G-2

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	4.86424G	44.09	74.00	-29.91	38.67	3	Vertical	24	2.22	-	32.93	4.70	32.21	
AV	4.876G	31.08	54.00	-22.92	25.63	3	Vertical	24	2.22	-	32.95	4.70	32.20	

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

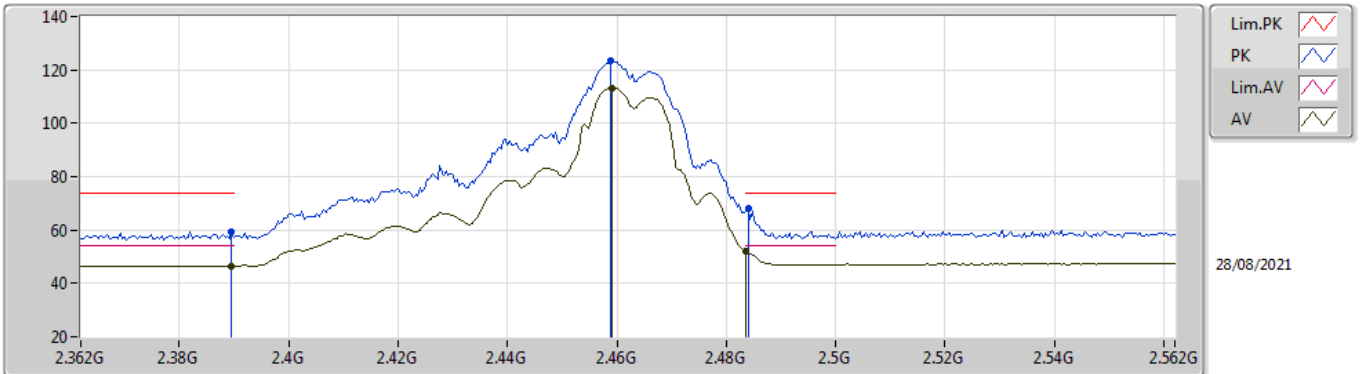


EUT Y_4TX
Setting 108
02-B-G-2

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	4.87908G	48.67	74.00	-25.33	43.21	3	Horizontal	258	2.13	-	32.96	4.70	32.20	
AV	4.8742G	35.26	54.00	-18.74	29.82	3	Horizontal	258	2.13	-	32.95	4.70	32.21	

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

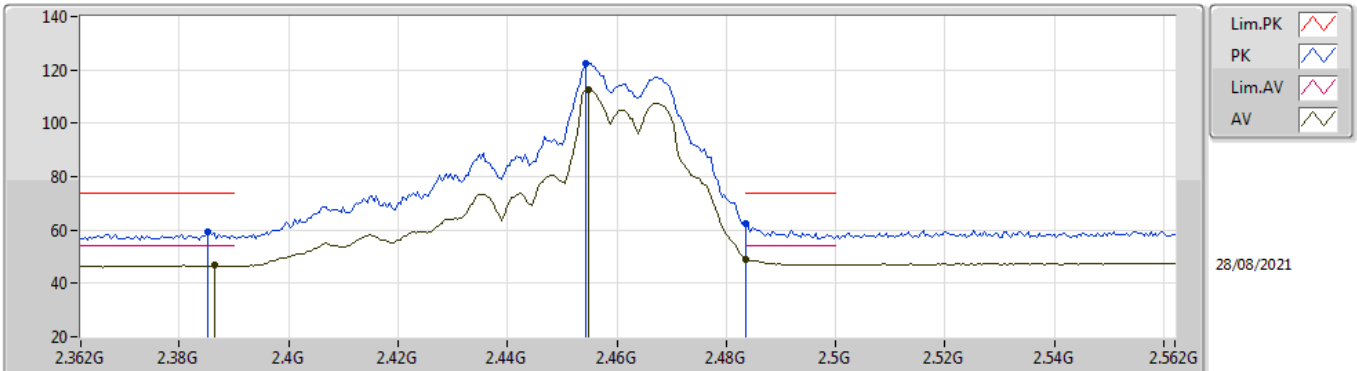


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3896G	59.26	74.00	-14.74	28.47	3	Vertical	157	1.80	-	28.38	2.41	-
AV	2.3896G	46.60	54.00	-7.40	15.81	3	Vertical	157	1.80	-	28.38	2.41	-
PK	2.4588G	123.31	Inf	-Inf	92.44	3	Vertical	157	1.80	-	28.44	2.43	-
AV	2.4592G	113.33	Inf	-Inf	82.46	3	Vertical	157	1.80	-	28.44	2.43	-
PK	2.484G	68.04	74.00	-5.96	37.06	3	Vertical	157	1.80	-	28.54	2.44	-
AV	2.4835G	52.01	54.00	-1.99	21.04	3	Vertical	157	1.80	-	28.53	2.44	-

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

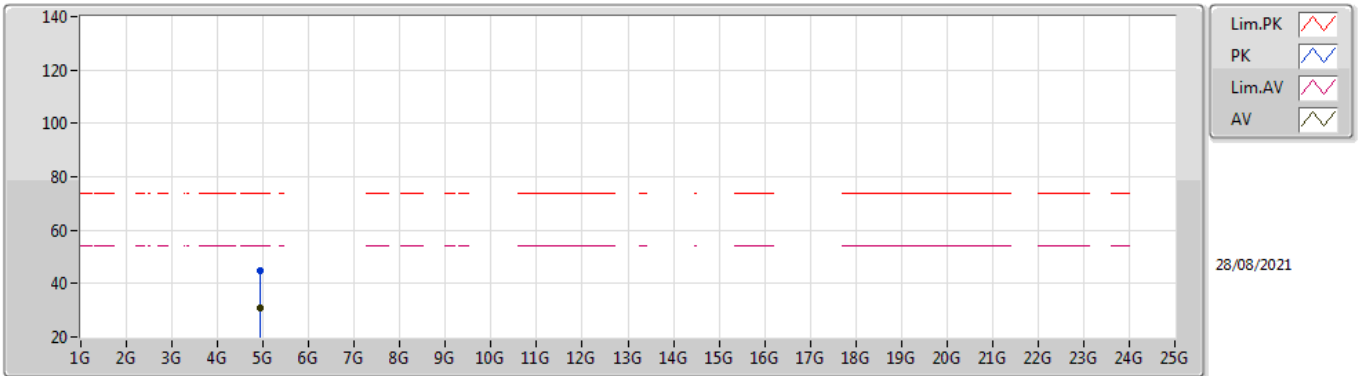


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3852G	59.18	74.00	-14.82	28.40	3	Horizontal	72	1.76	-	28.37	2.41	-
AV	2.3864G	46.67	54.00	-7.33	15.89	3	Horizontal	72	1.76	-	28.37	2.41	-
PK	2.4544G	122.31	Inf	-Inf	91.46	3	Horizontal	72	1.76	-	28.42	2.43	-
AV	2.4548G	112.33	Inf	-Inf	81.48	3	Horizontal	72	1.76	-	28.42	2.43	-
PK	2.4835G	62.61	74.00	-11.39	31.64	3	Horizontal	72	1.76	-	28.53	2.44	-
AV	2.4835G	48.87	54.00	-5.13	17.90	3	Horizontal	72	1.76	-	28.53	2.44	-

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

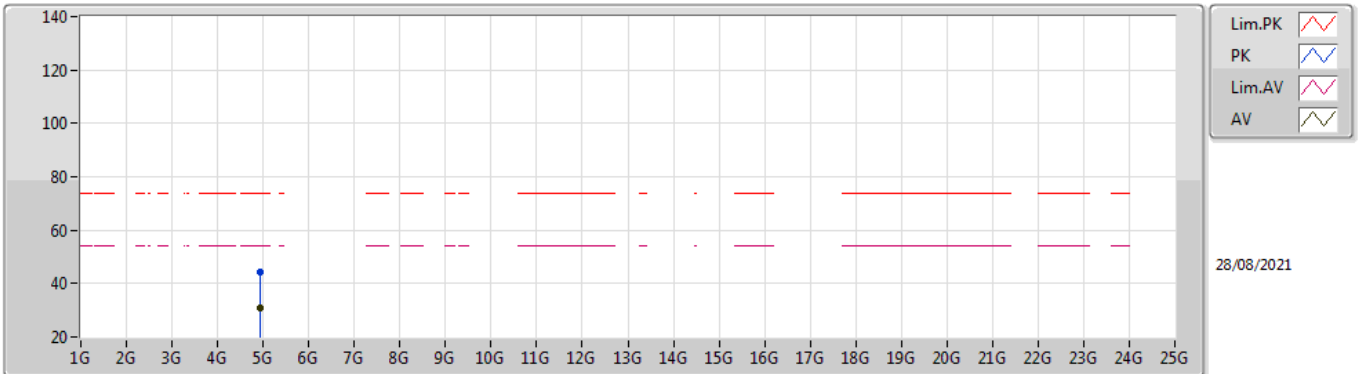


EUT Y_4TX
Setting 108
02-B-G-2

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	4.92566G	44.89	74.00	-29.11	39.23	3	Vertical	100	1.01	-	33.15	4.70	32.19
AV	4.9281G	30.80	54.00	-23.20	25.12	3	Vertical	100	1.01	-	33.17	4.70	32.19

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

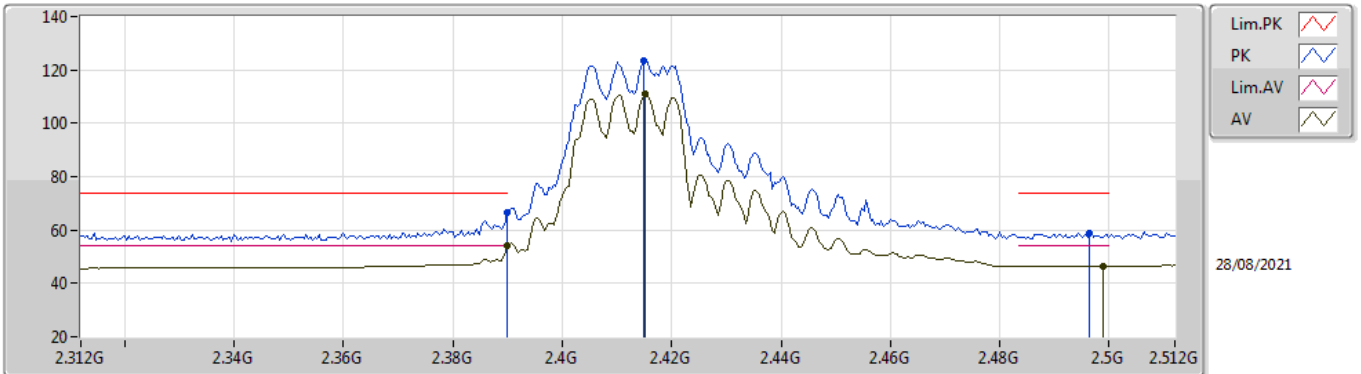


EUT Y_4TX
Setting 108
02-B-G-2

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	4.91992G	44.51	74.00	-29.49	38.88	3	Horizontal	41	2.84	-	33.12	4.70	32.19
AV	4.92782G	30.86	54.00	-23.14	25.18	3	Horizontal	41	2.84	-	33.17	4.70	32.19

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

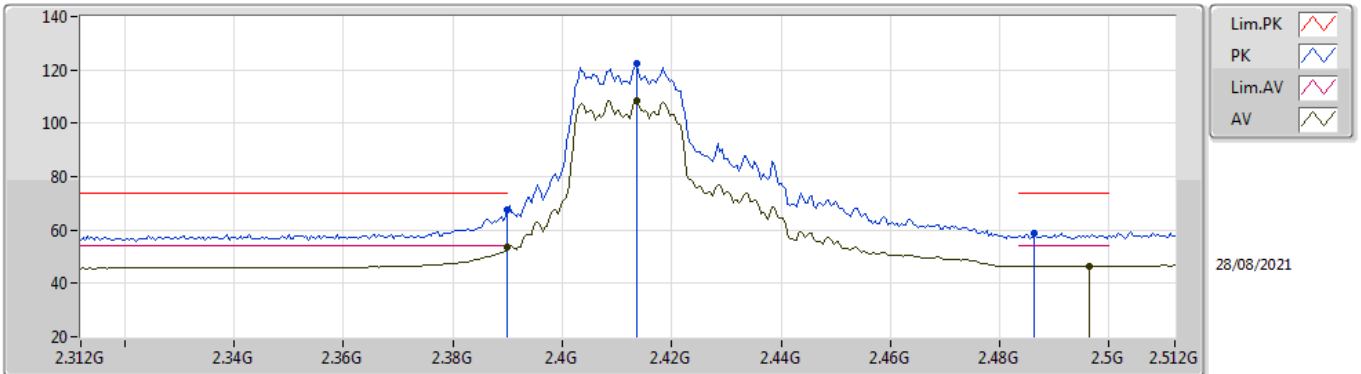


EUT_Y_4TX
Setting 101
02-B-G-2

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	2.39G	66.75	74.00	-7.25	35.96	3	Vertical	281	2.49	-	28.38	2.41	-	
AV	2.39G	53.91	54.00	-0.09	23.12	3	Vertical	281	2.49	-	28.38	2.41	-	
PK	2.4148G	123.45	Inf	-Inf	92.64	3	Vertical	281	2.49	-	28.40	2.41	-	
AV	2.4152G	110.90	Inf	-Inf	80.09	3	Vertical	281	2.49	-	28.40	2.41	-	
PK	2.4964G	58.76	74.00	-15.24	27.72	3	Vertical	281	2.49	-	28.59	2.45	-	
AV	2.4988G	46.51	54.00	-7.49	15.46	3	Vertical	281	2.49	-	28.60	2.45	-	

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

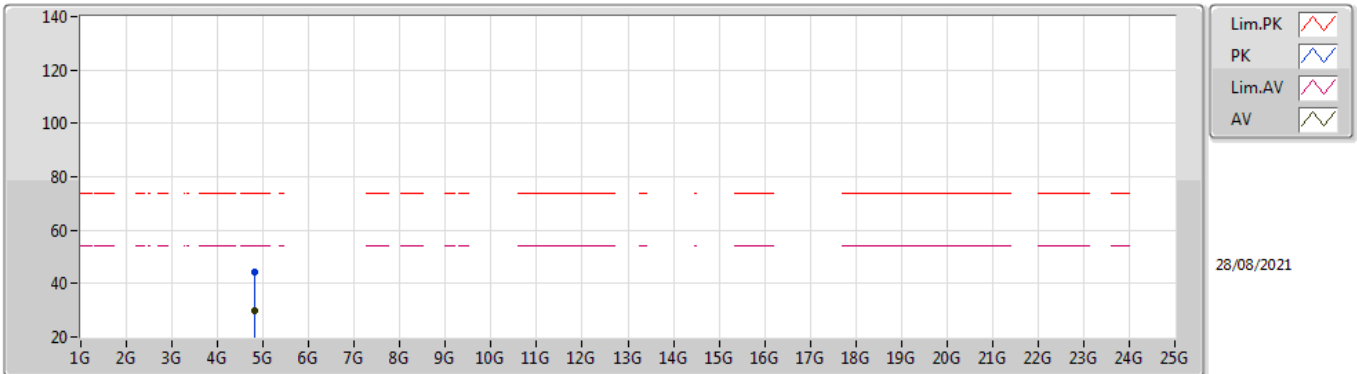


EUT_Y_4TX
Setting 101
02-B-G-2

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	2.39G	67.51	74.00	-6.49	36.72	3	Horizontal	71	1.90	-	28.38	2.41	-	
AV	2.39G	53.65	54.00	-0.35	22.86	3	Horizontal	71	1.90	-	28.38	2.41	-	
PK	2.4136G	122.19	Inf	-Inf	91.38	3	Horizontal	71	1.90	-	28.40	2.41	-	
AV	2.4136G	108.65	Inf	-Inf	77.84	3	Horizontal	71	1.90	-	28.40	2.41	-	
PK	2.4864G	58.84	74.00	-15.16	27.85	3	Horizontal	71	1.90	-	28.55	2.44	-	
AV	2.4964G	46.51	54.00	-7.49	15.47	3	Horizontal	71	1.90	-	28.59	2.45	-	

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

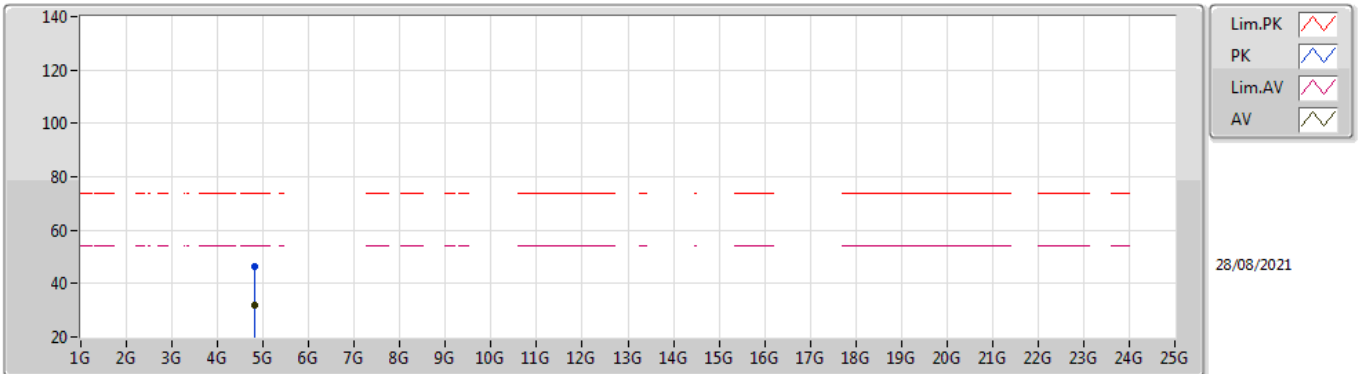


EUT Y_4TX
Setting 101
02-B-G-2

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	4.82348G	44.12	74.00	-29.88	38.85	3	Vertical	200	1.60	-	32.79	4.70	32.22
AV	4.82432G	29.83	54.00	-24.17	24.55	3	Vertical	200	1.60	-	32.80	4.70	32.22

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

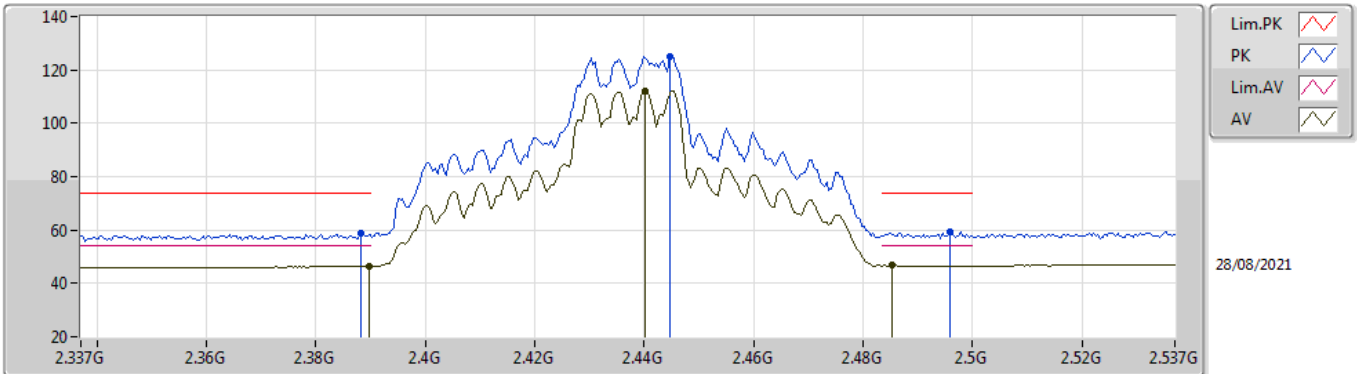


EUT Y_4TX
Setting 101
02-B-G-2

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	4.82288G	46.18	74.00	-27.82	40.91	3	Horizontal	70	1.93	-	32.79	4.70	32.22
AV	4.82276G	31.78	54.00	-22.22	26.51	3	Horizontal	70	1.93	-	32.79	4.70	32.22

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

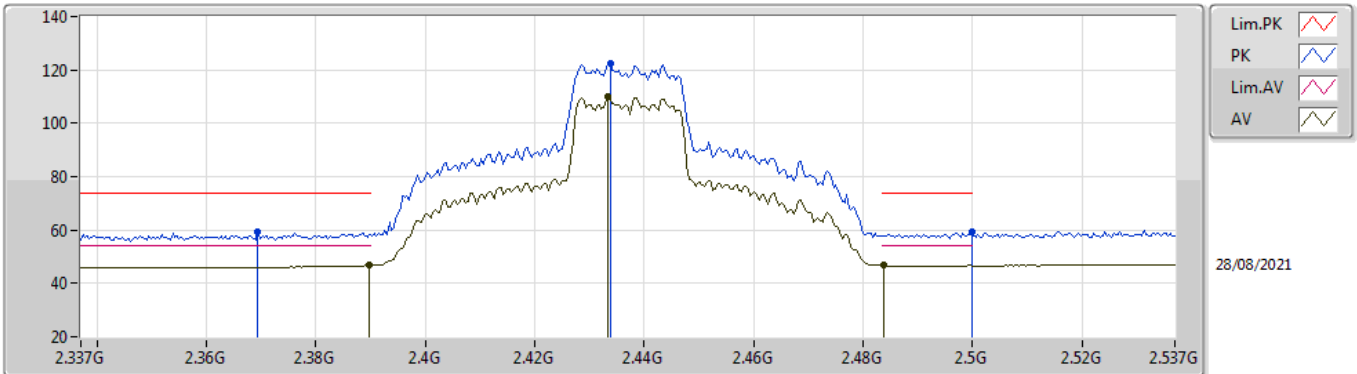


EUT Y_4TX
Setting 108
02-B-G-2

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	2.3882G	58.61	74.00	-15.39	27.82	3	Vertical	290	2.25	-	28.38	2.41	-
AV	2.3898G	46.57	54.00	-7.43	15.78	3	Vertical	290	2.25	-	28.38	2.41	-
PK	2.4446G	125.06	Inf	-Inf	94.24	3	Vertical	290	2.25	-	28.40	2.42	-
AV	2.4402G	112.20	Inf	-Inf	81.38	3	Vertical	290	2.25	-	28.40	2.42	-
PK	2.4958G	59.24	74.00	-14.76	28.21	3	Vertical	290	2.25	-	28.58	2.45	-
AV	2.4854G	46.85	54.00	-7.15	15.87	3	Vertical	290	2.25	-	28.54	2.44	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

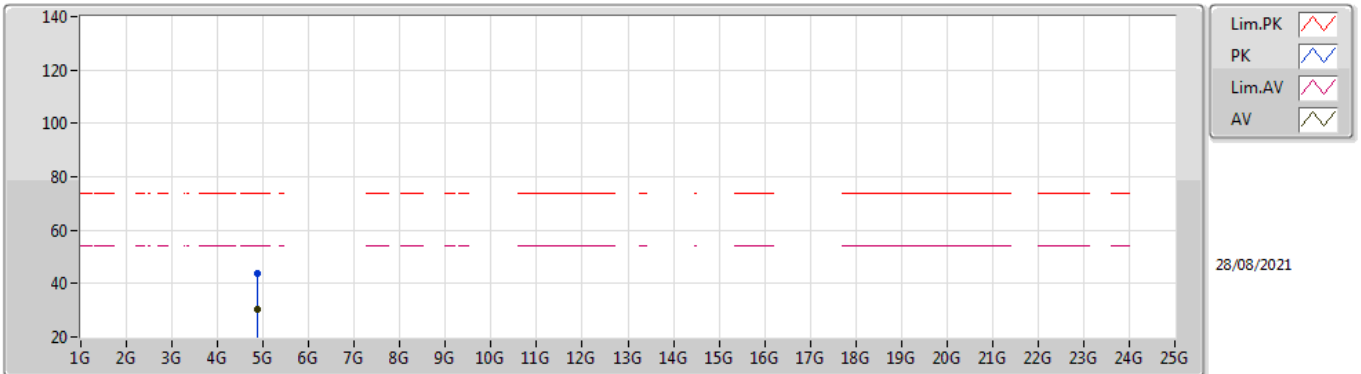


EUT_Y_4TX
Setting 108
02-B-G-2

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	2.3694G	59.19	74.00	-14.81	28.43	3	Horizontal	69	2.15	-	28.34	2.42	-
AV	2.3898G	46.65	54.00	-7.35	15.86	3	Horizontal	69	2.15	-	28.38	2.41	-
PK	2.4338G	122.30	Inf	-Inf	91.48	3	Horizontal	69	2.15	-	28.40	2.42	-
AV	2.4334G	109.80	Inf	-Inf	78.98	3	Horizontal	69	2.15	-	28.40	2.42	-
PK	2.4998G	59.28	74.00	-14.72	28.23	3	Horizontal	69	2.15	-	28.60	2.45	-
AV	2.4838G	46.77	54.00	-7.23	15.79	3	Horizontal	69	2.15	-	28.54	2.44	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

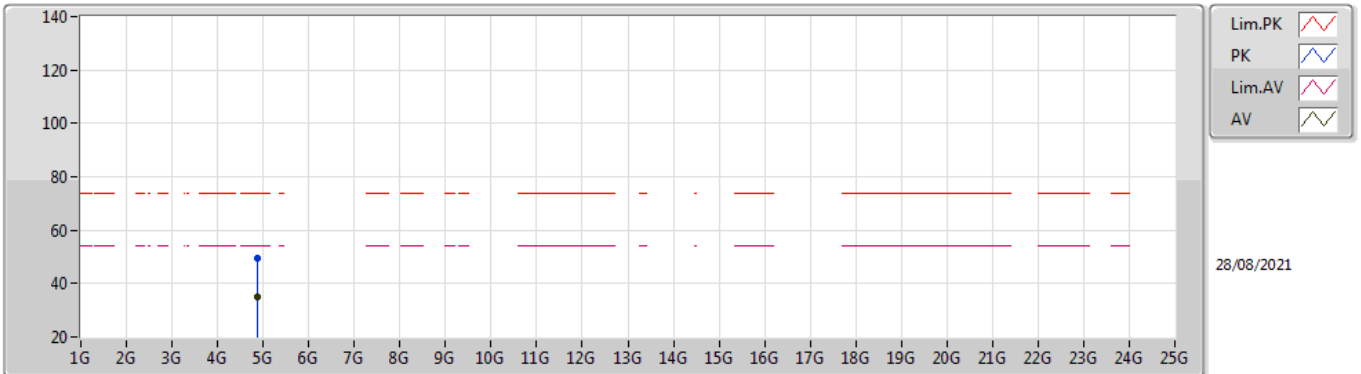


EUT Y_4TX
Setting 108
02-B-G-2

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	4.86924G	43.57	74.00	-30.43	38.14	3	Vertical	56	1.67	-	32.94	4.70	32.21	
AV	4.86588G	30.11	54.00	-23.89	24.69	3	Vertical	56	1.67	-	32.93	4.70	32.21	

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

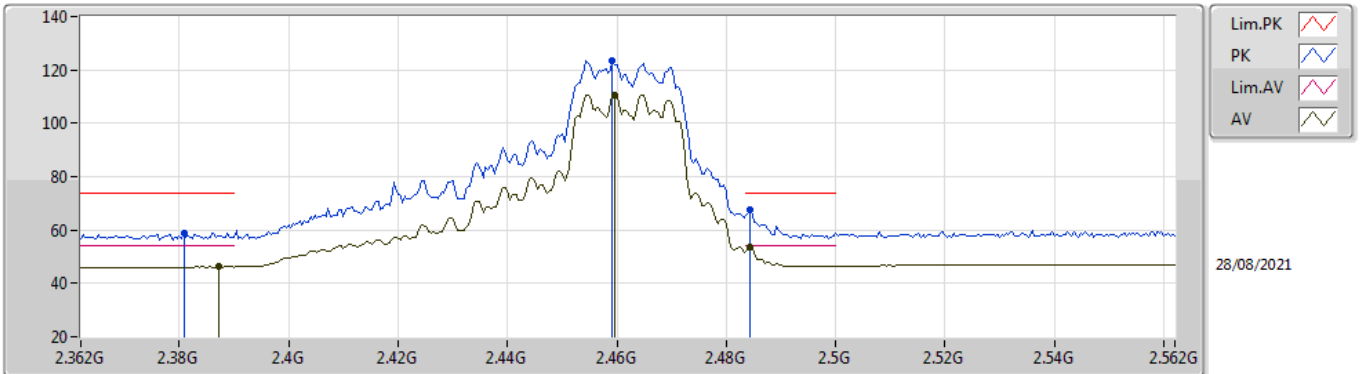


EUT Y_4TX
Setting 108
02-B-G-2

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	4.86548G	49.69	74.00	-24.31	44.27	3	Horizontal	262	2.08	-	32.93	4.70	32.21	
AV	4.87068G	34.99	54.00	-19.01	29.56	3	Horizontal	262	2.08	-	32.94	4.70	32.21	

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

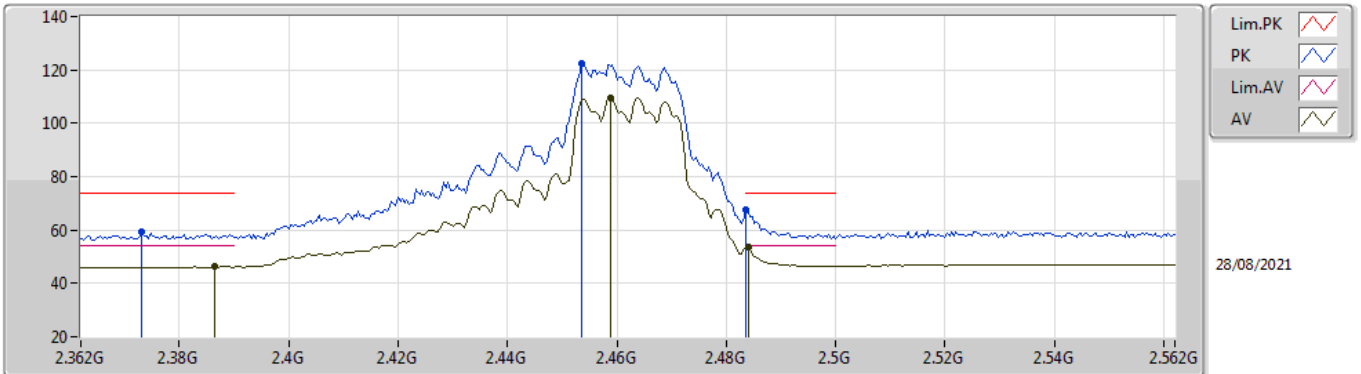


EUT_Y_4TX
Setting 106
02-B-G-2

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	2.3808G	58.92	74.00	-15.08	28.15	3	Vertical	148	1.74	-	28.36	2.41	-
AV	2.3872G	46.18	54.00	-7.82	15.40	3	Vertical	148	1.74	-	28.37	2.41	-
PK	2.4592G	123.48	Inf	-Inf	92.61	3	Vertical	148	1.74	-	28.44	2.43	-
AV	2.4596G	110.48	Inf	-Inf	79.61	3	Vertical	148	1.74	-	28.44	2.43	-
PK	2.4844G	67.73	74.00	-6.27	36.75	3	Vertical	148	1.74	-	28.54	2.44	-
AV	2.4844G	53.85	54.00	-0.15	22.87	3	Vertical	148	1.74	-	28.54	2.44	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

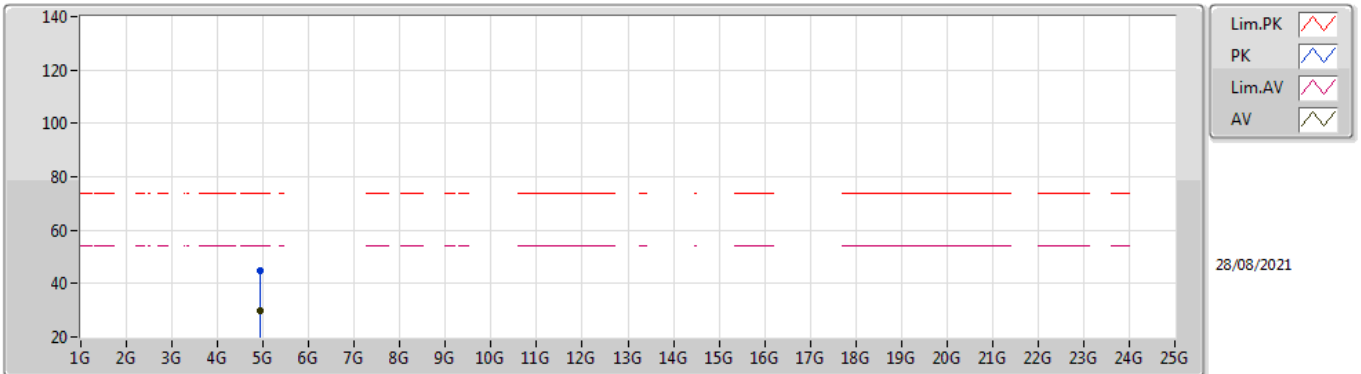


EUT_Y_4TX
Setting 106
02-B-G-2

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	2.3732G	59.18	74.00	-14.82	28.42	3	Horizontal	269	2.78	-	28.35	2.41	-
AV	2.3864G	46.16	54.00	-7.84	15.38	3	Horizontal	269	2.78	-	28.37	2.41	-
PK	2.4536G	122.51	Inf	-Inf	91.67	3	Horizontal	269	2.78	-	28.41	2.43	-
AV	2.4588G	109.59	Inf	-Inf	78.72	3	Horizontal	269	2.78	-	28.44	2.43	-
PK	2.4835G	67.48	74.00	-6.52	36.51	3	Horizontal	269	2.78	-	28.53	2.44	-
AV	2.484G	53.63	54.00	-0.37	22.65	3	Horizontal	269	2.78	-	28.54	2.44	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

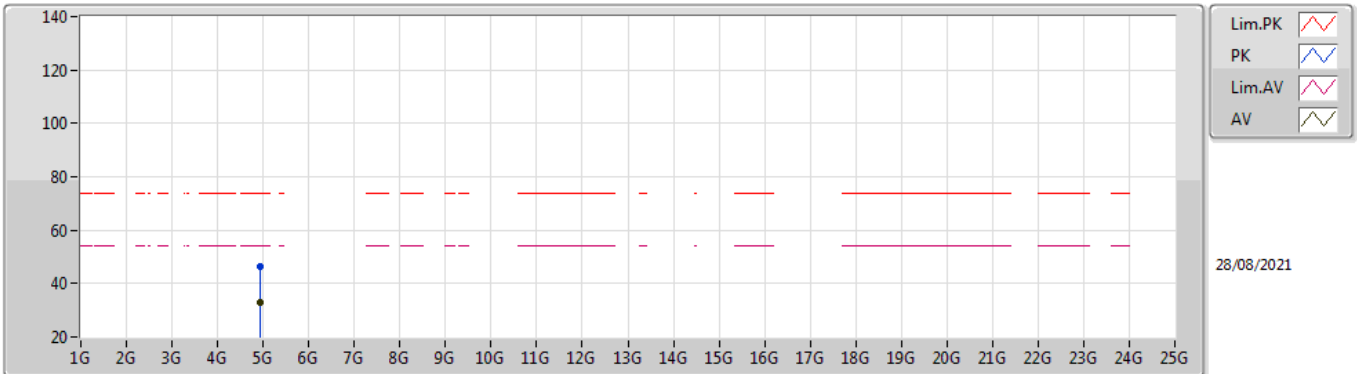


EUT Y_4TX
Setting 106
02-B-G-2

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	4.92794G	44.67	74.00	-29.33	38.99	3	Vertical	274	1.10	-	33.17	4.70	32.19	
AV	4.92708G	30.02	54.00	-23.98	24.35	3	Vertical	274	1.10	-	33.16	4.70	32.19	

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

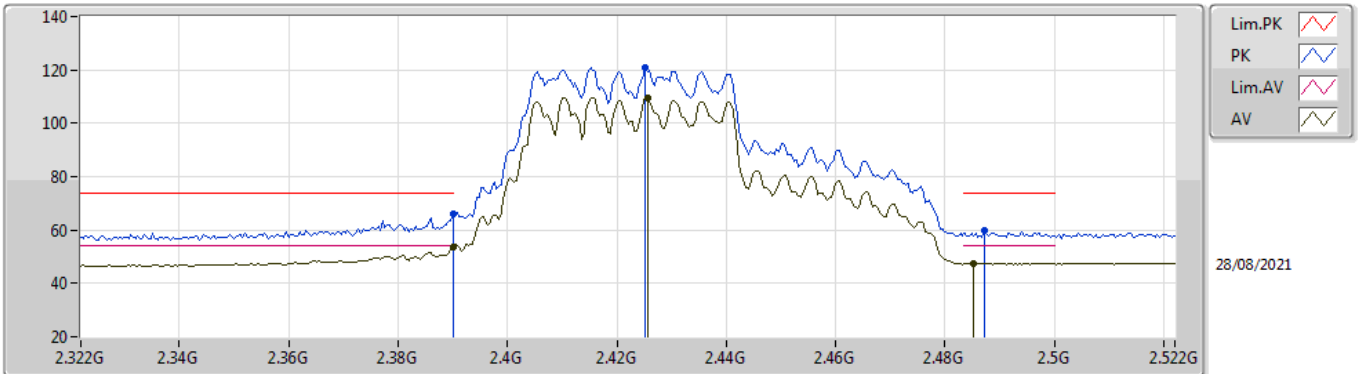


EUT Y_4TX
Setting 106
02-B-G-2

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	4.92254G	46.19	74.00	-27.81	40.54	3	Horizontal	150	2.68	-	33.14	4.70	32.19
AV	4.92688G	33.01	54.00	-20.99	27.34	3	Horizontal	150	2.68	-	33.16	4.70	32.19

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

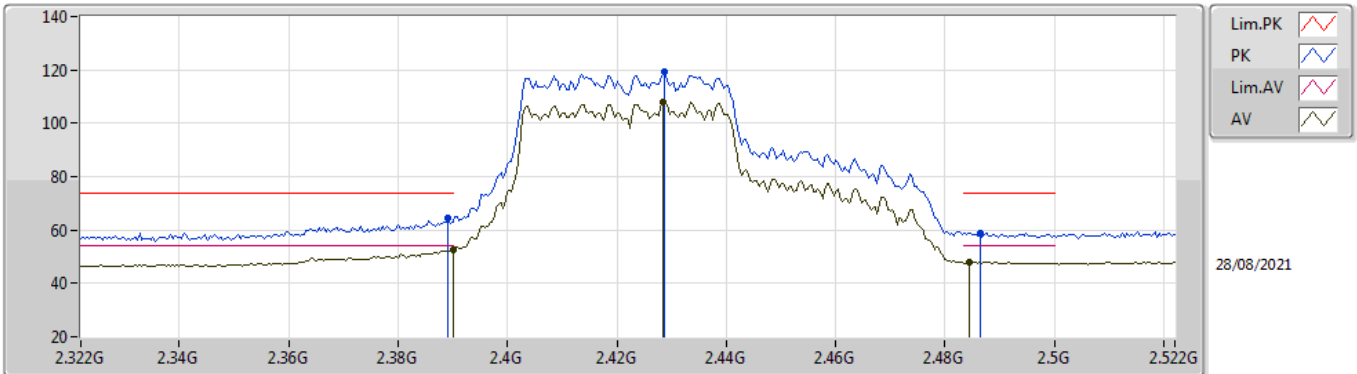


EUT_Y_4TX
Setting 100
02-B-G-2

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	2.39G	65.78	74.00	-8.22	34.99	3	Vertical	274	2.28	-	28.38	2.41	-
AV	2.39G	53.82	54.00	-0.18	23.03	3	Vertical	274	2.28	-	28.38	2.41	-
PK	2.4252G	120.91	Inf	-Inf	90.10	3	Vertical	274	2.28	-	28.40	2.41	-
AV	2.4256G	109.51	Inf	-Inf	78.70	3	Vertical	274	2.28	-	28.40	2.41	-
PK	2.4872G	59.64	74.00	-14.36	28.65	3	Vertical	274	2.28	-	28.55	2.44	-
AV	2.4852G	47.66	54.00	-6.34	16.68	3	Vertical	274	2.28	-	28.54	2.44	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

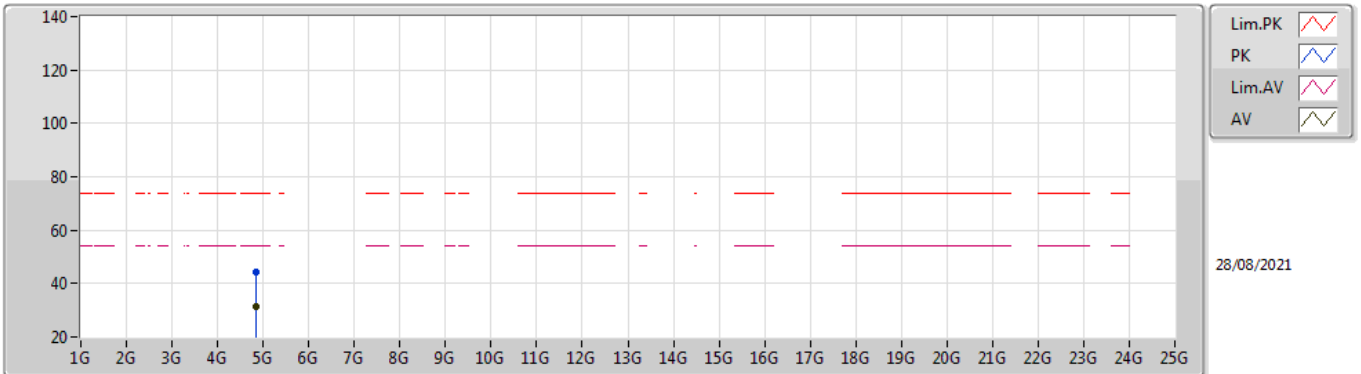


EUT Y_4TX
Setting 100
02-B-G-2

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	2.3892G	64.36	74.00	-9.64	33.57	3	Horizontal	70	2.13	-	28.38	2.41	-
AV	2.39G	52.40	54.00	-1.60	21.61	3	Horizontal	70	2.13	-	28.38	2.41	-
PK	2.4288G	119.12	Inf	-Inf	88.31	3	Horizontal	70	2.13	-	28.40	2.41	-
AV	2.4284G	107.90	Inf	-Inf	77.09	3	Horizontal	70	2.13	-	28.40	2.41	-
PK	2.4864G	58.97	74.00	-15.03	27.98	3	Horizontal	70	2.13	-	28.55	2.44	-
AV	2.4844G	47.98	54.00	-6.02	17.00	3	Horizontal	70	2.13	-	28.54	2.44	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

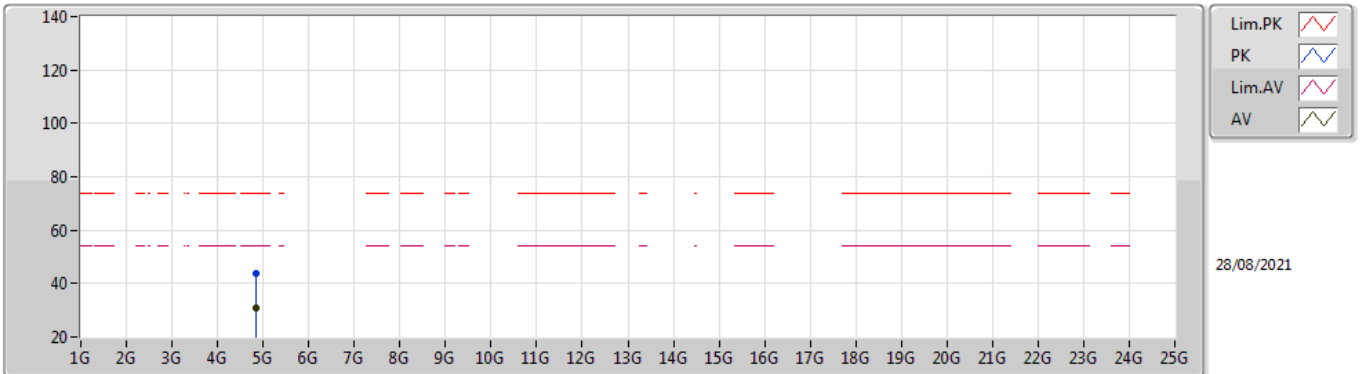


EUT Y_4TX
Setting 100
02-B-G-2

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	4.84538G	44.09	74.00	-29.91	38.73	3	Vertical	345	2.21	-	32.88	4.70	32.22
AV	4.8426G	31.53	54.00	-22.47	26.18	3	Vertical	345	2.21	-	32.87	4.70	32.22

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

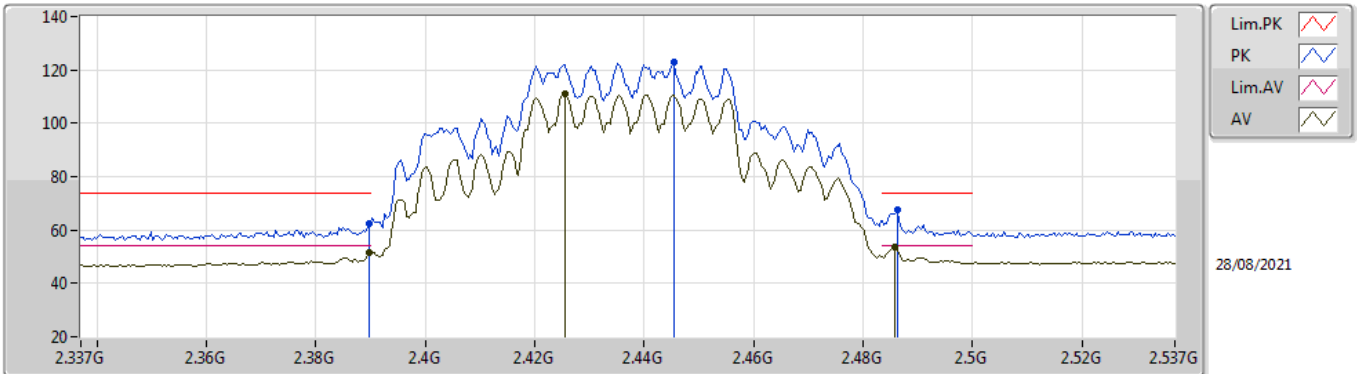


EUT Y_4TX
Setting 100
02-B-G-2

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	4.8457G	43.70	74.00	-30.30	38.34	3	Horizontal	170	2.25	-	32.88	4.70	32.22
AV	4.84344G	31.11	54.00	-22.89	25.76	3	Horizontal	170	2.25	-	32.87	4.70	32.22

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

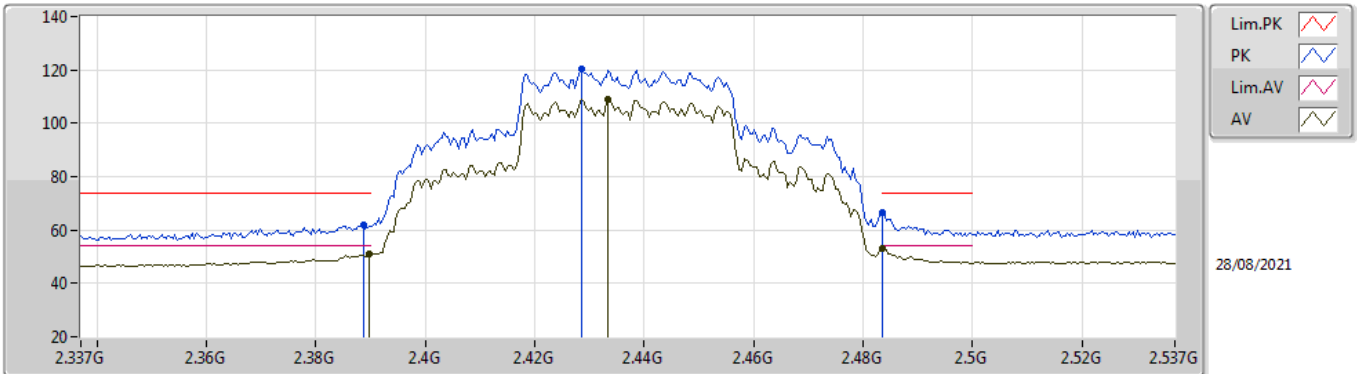


EUT_Y_4TX
Setting 103
02-B-G-2

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	62.62	74.00	-11.38	31.83	3	Vertical	285	2.27	-	28.38	2.41	-
AV	2.3898G	51.34	54.00	-2.66	20.55	3	Vertical	285	2.27	-	28.38	2.41	-
PK	2.4454G	123.14	Inf	-Inf	92.32	3	Vertical	285	2.27	-	28.40	2.42	-
AV	2.4254G	110.78	Inf	-Inf	79.97	3	Vertical	285	2.27	-	28.40	2.41	-
PK	2.4862G	67.49	74.00	-6.51	36.51	3	Vertical	285	2.27	-	28.54	2.44	-
AV	2.4858G	53.71	54.00	-0.29	22.73	3	Vertical	285	2.27	-	28.54	2.44	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

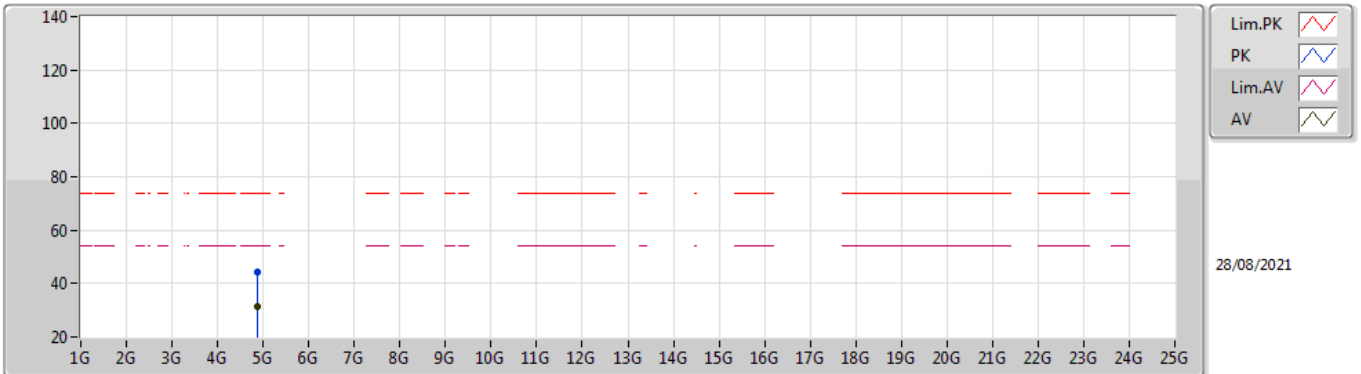


EUT_Y_4TX
Setting 103
02-B-G-2

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	62.11	74.00	-11.89	31.32	3	Horizontal	71	2.15	-	28.38	2.41	-
AV	2.3898G	50.99	54.00	-3.01	20.20	3	Horizontal	71	2.15	-	28.38	2.41	-
PK	2.4286G	120.16	Inf	-Inf	89.35	3	Horizontal	71	2.15	-	28.40	2.41	-
AV	2.4334G	108.93	Inf	-Inf	78.11	3	Horizontal	71	2.15	-	28.40	2.42	-
PK	2.4835G	66.62	74.00	-7.38	35.65	3	Horizontal	71	2.15	-	28.53	2.44	-
AV	2.4835G	53.06	54.00	-0.94	22.09	3	Horizontal	71	2.15	-	28.53	2.44	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

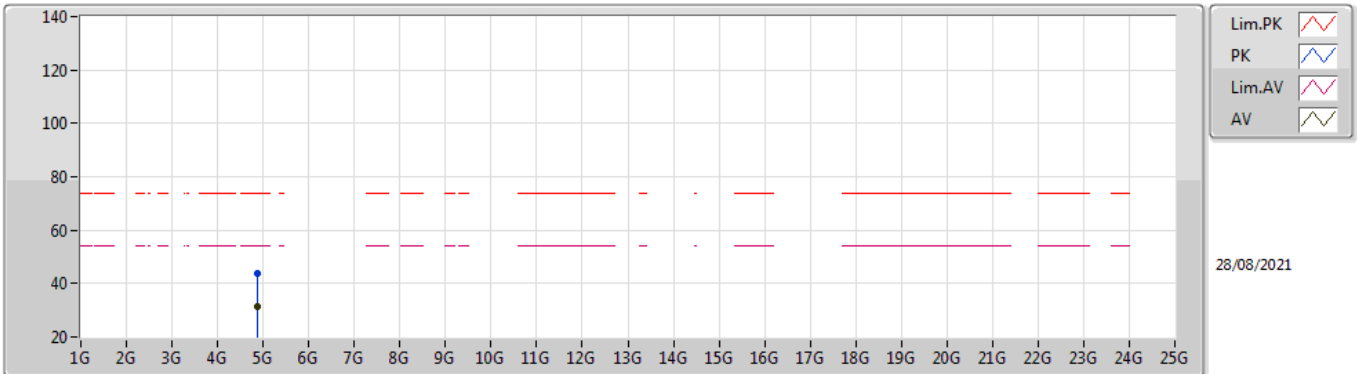


EUT Y_4TX
Setting 103
02-B-G-2

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	4.87692G	44.14	74.00	-29.86	38.69	3	Vertical	161	1.03	-	32.95	4.70	32.20
AV	4.87254G	31.23	54.00	-22.77	25.79	3	Vertical	161	1.03	-	32.95	4.70	32.21

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

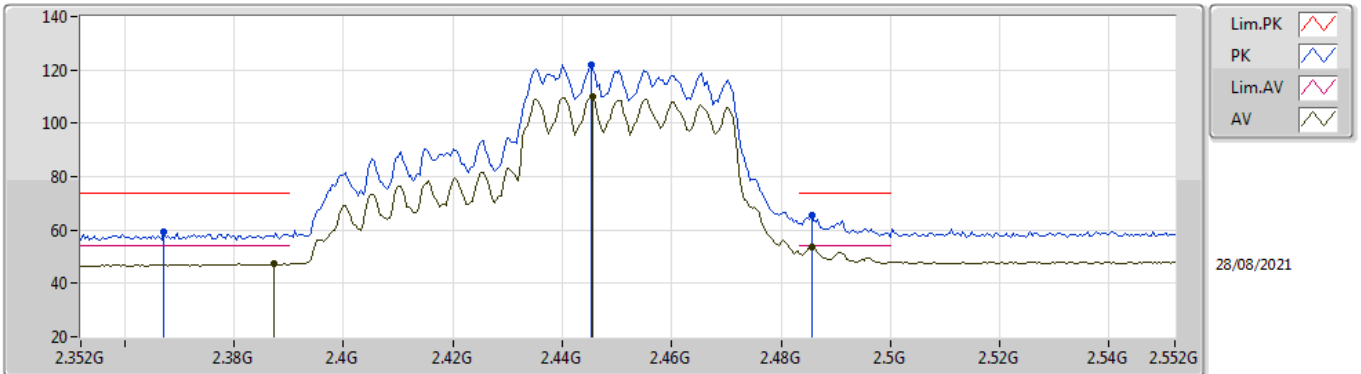


EUT Y_4TX
Setting 103
02-B-G-2

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	4.87316G	43.97	74.00	-30.03	38.53	3	Horizontal	319	1.92	-	32.95	4.70	32.21
AV	4.8741G	31.16	54.00	-22.84	25.72	3	Horizontal	319	1.92	-	32.95	4.70	32.21

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

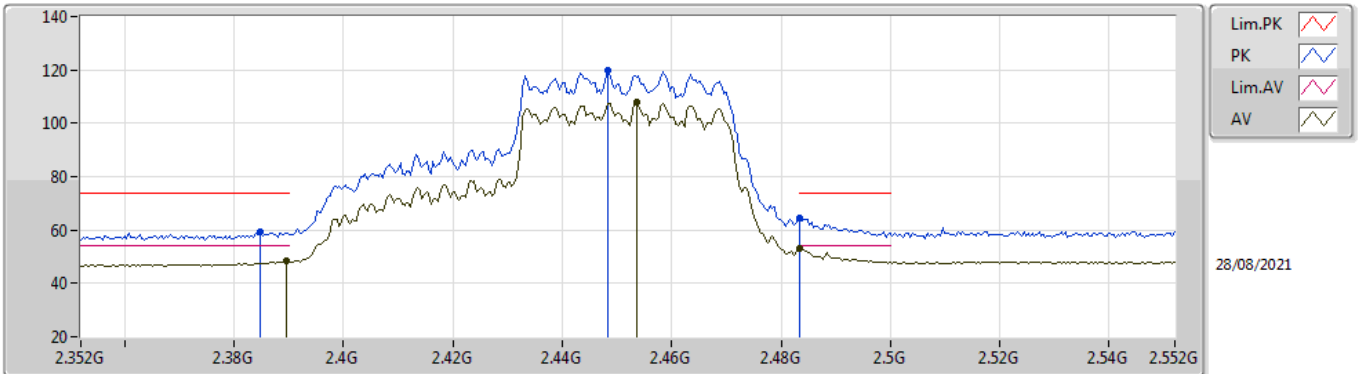


EUT_Y_4TX
Setting 99
02-B-G-2

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	2.3672G	59.19	74.00	-14.81	28.44	3	Vertical	282	2.23	-	28.33	2.42	-
AV	2.3872G	47.33	54.00	-6.67	16.55	3	Vertical	282	2.23	-	28.37	2.41	-
PK	2.4452G	122.06	Inf	-Inf	91.24	3	Vertical	282	2.23	-	28.40	2.42	-
AV	2.4456G	109.76	Inf	-Inf	78.94	3	Vertical	282	2.23	-	28.40	2.42	-
PK	2.4856G	65.36	74.00	-8.64	34.38	3	Vertical	282	2.23	-	28.54	2.44	-
AV	2.4856G	53.82	54.00	-0.18	22.84	3	Vertical	282	2.23	-	28.54	2.44	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

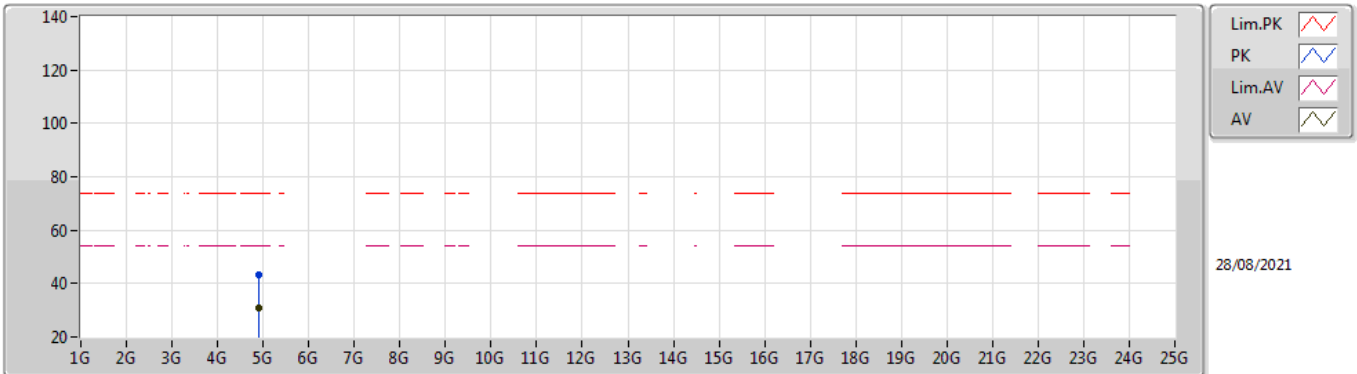


EUT_Y_4TX
Setting 99
02-B-G-2

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	2.3848G	59.38	74.00	-14.62	28.60	3	Horizontal	71	1.76	-	28.37	2.41	-
AV	2.3896G	48.48	54.00	-5.52	17.69	3	Horizontal	71	1.76	-	28.38	2.41	-
PK	2.4484G	119.67	Inf	-Inf	88.85	3	Horizontal	71	1.76	-	28.40	2.42	-
AV	2.4536G	107.73	Inf	-Inf	76.89	3	Horizontal	71	1.76	-	28.41	2.43	-
PK	2.4835G	64.53	74.00	-9.47	33.56	3	Horizontal	71	1.76	-	28.53	2.44	-
AV	2.4835G	53.18	54.00	-0.82	22.21	3	Horizontal	71	1.76	-	28.53	2.44	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

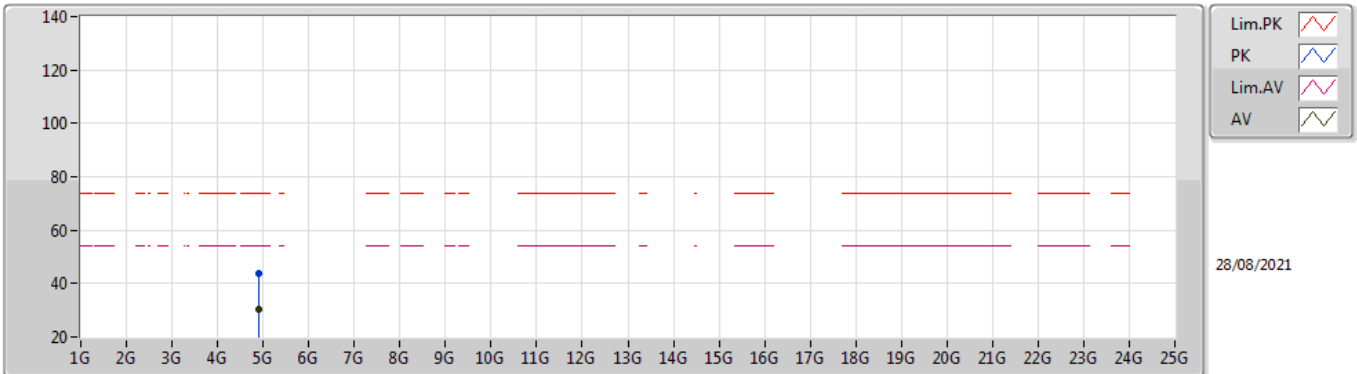


EUT Y_4TX
Setting 99
02-B-G-2

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	4.90444G	43.17	74.00	-30.83	37.63	3	Vertical	49	1.04	-	33.03	4.70	32.19
AV	4.90752G	30.76	54.00	-23.24	25.20	3	Vertical	49	1.04	-	33.05	4.70	32.19

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX



EUT Y_4TX
Setting 99
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	4.90528G	43.66	74.00	-30.34	38.12	3	Horizontal	72	2.55	-	33.03	4.70	32.19
AV	4.90506G	30.52	54.00	-23.48	24.98	3	Horizontal	72	2.55	-	33.03	4.70	32.19

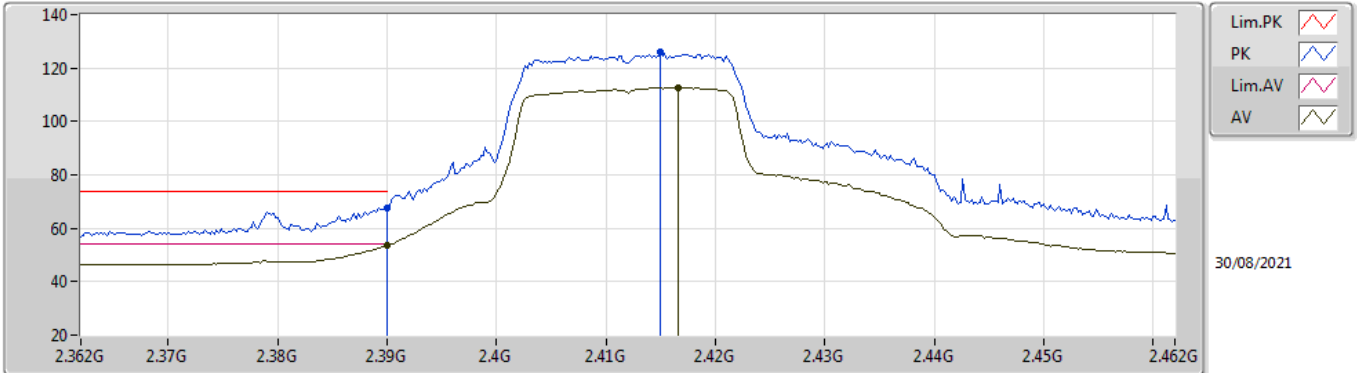


Summary

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 HEW40-BF_Nss1,(MCS0)_4TX	Pass	AV	2.4835G	53.94	54.00	-0.06	3	Vertical	286	2.22	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

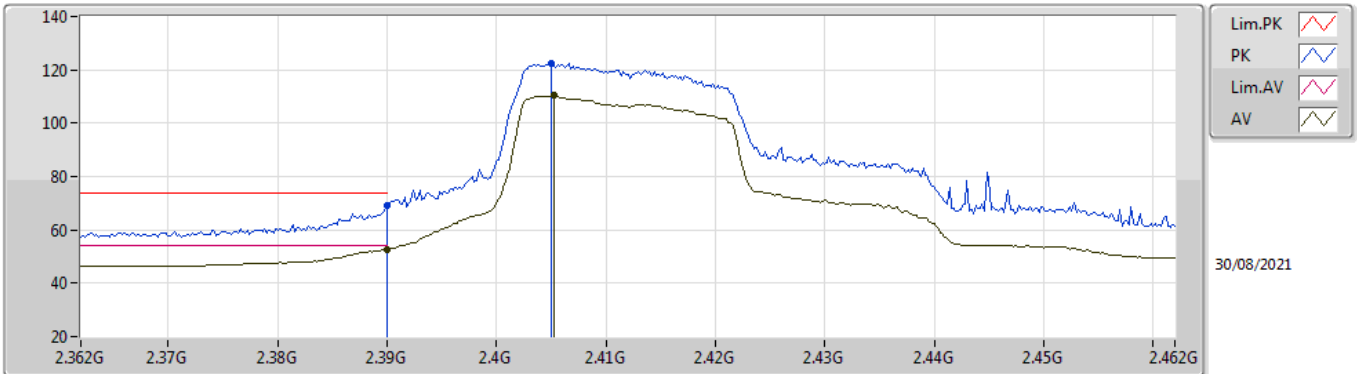


EUT Y_4TX
Setting 103
02-B-R-5

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	2.39G	67.43	74.00	-6.57	36.64	3	Vertical	288	2.53	-	28.38	2.41	-
AV	2.39G	53.56	54.00	-0.44	22.77	3	Vertical	288	2.53	-	28.38	2.41	-
PK	2.415G	126.28	Inf	-Inf	95.47	3	Vertical	288	2.53	-	28.40	2.41	-
AV	2.4166G	112.71	Inf	-Inf	81.90	3	Vertical	288	2.53	-	28.40	2.41	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

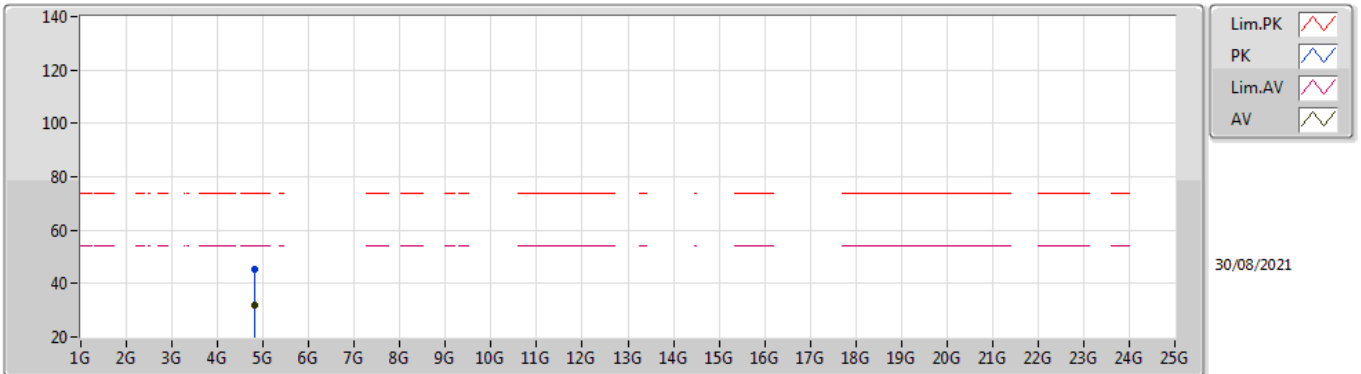


EUT_Y_4TX
Setting 103
02-B-R-5

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	2.39G	69.29	74.00	-4.71	38.50	3	Horizontal	64	2.65	-	28.38	2.41	-	
AV	2.39G	52.63	54.00	-1.37	21.84	3	Horizontal	64	2.65	-	28.38	2.41	-	
PK	2.405G	122.59	Inf	-Inf	91.79	3	Horizontal	64	2.65	-	28.40	2.40	-	
AV	2.4052G	110.29	Inf	-Inf	79.49	3	Horizontal	64	2.65	-	28.40	2.40	-	

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

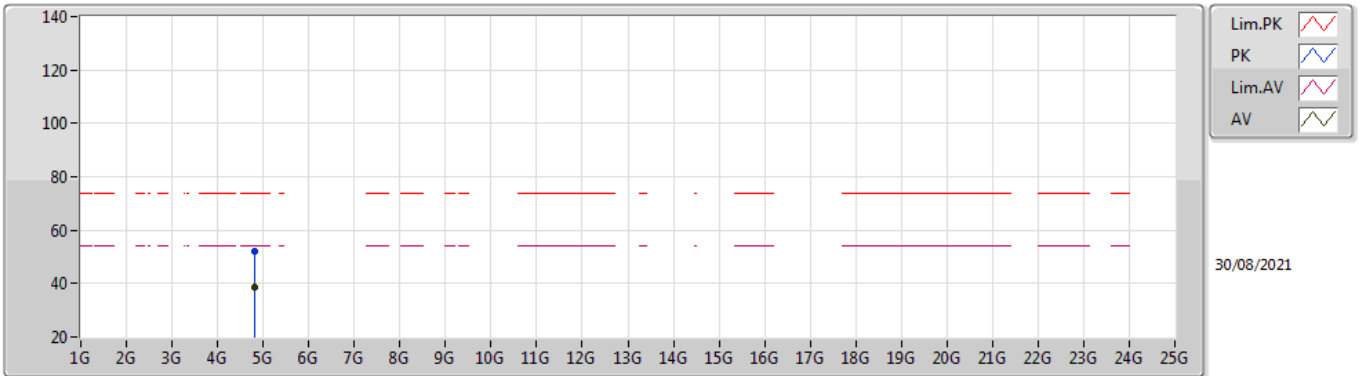


EUT Y_4TX
Setting 103
02-B-R-5

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	4.82384G	45.27	74.00	-28.73	39.99	3	Vertical	81	1.02	-	32.80	4.70	32.22	
AV	4.82464G	32.12	54.00	-21.88	26.84	3	Vertical	81	1.02	-	32.80	4.70	32.22	

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

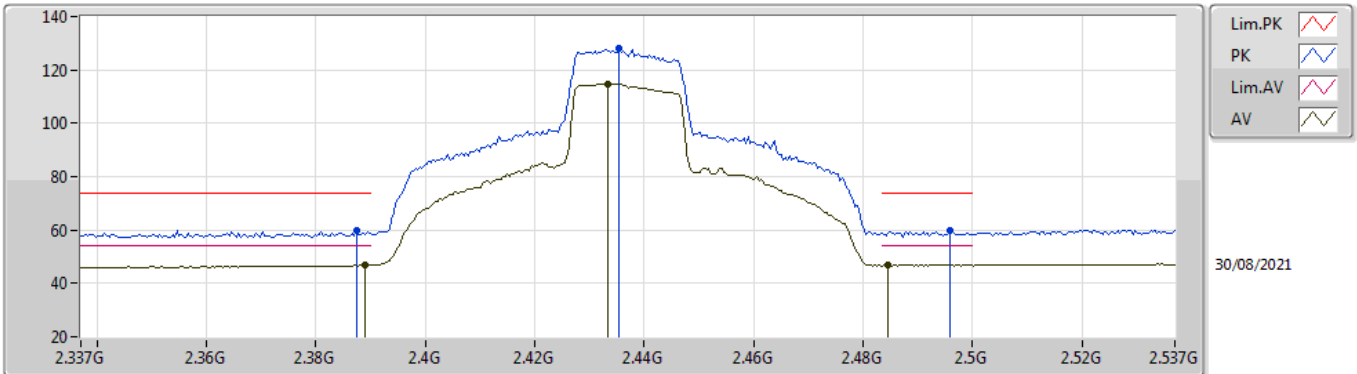


EUT Y_4TX
Setting 103
02-B-R-5

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	4.8232G	51.87	74.00	-22.13	46.60	3	Horizontal	252	1.98	-	32.79	4.70	32.22
AV	4.8248G	38.48	54.00	-15.52	33.20	3	Horizontal	252	1.98	-	32.80	4.70	32.22

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

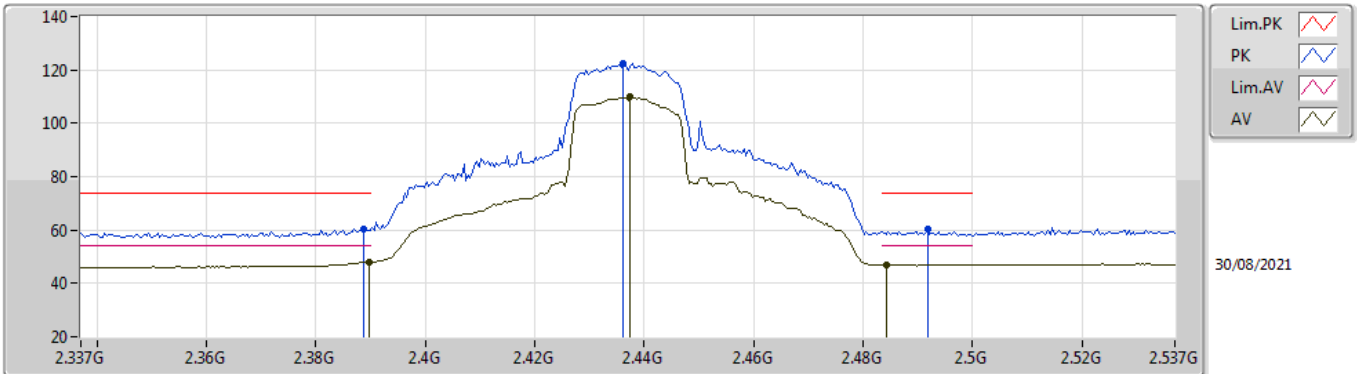


EUT_Y_4TX
Setting 108
02-B-R-5

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	2.3874G	59.76	74.00	-14.24	28.98	3	Vertical	321	1.88	-	28.37	2.41	-
AV	2.389G	46.75	54.00	-7.25	15.96	3	Vertical	321	1.88	-	28.38	2.41	-
PK	2.4354G	127.85	Inf	-Inf	97.03	3	Vertical	321	1.88	-	28.40	2.42	-
AV	2.4334G	114.87	Inf	-Inf	84.05	3	Vertical	321	1.88	-	28.40	2.42	-
PK	2.4958G	59.67	74.00	-14.33	28.64	3	Vertical	321	1.88	-	28.58	2.45	-
AV	2.4846G	46.79	54.00	-7.21	15.81	3	Vertical	321	1.88	-	28.54	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

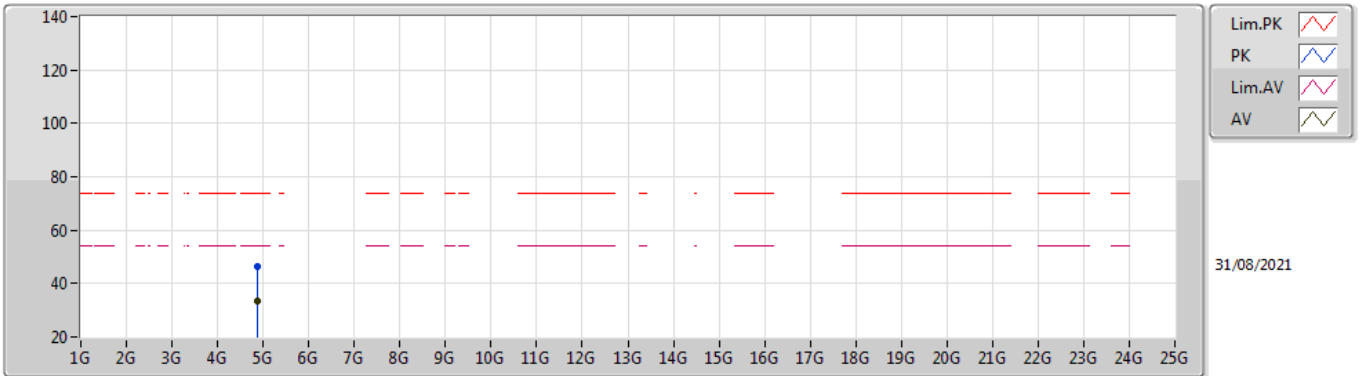


EUT_Y_4TX
Setting 108
02-B-R-5

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	60.35	74.00	-13.65	29.56	3	Horizontal	80	1.80	-	28.38	2.41	-
AV	2.3898G	47.86	54.00	-6.14	17.07	3	Horizontal	80	1.80	-	28.38	2.41	-
PK	2.4362G	122.46	Inf	-Inf	91.64	3	Horizontal	80	1.80	-	28.40	2.42	-
AV	2.4374G	109.81	Inf	-Inf	78.99	3	Horizontal	80	1.80	-	28.40	2.42	-
PK	2.4918G	60.19	74.00	-13.81	29.17	3	Horizontal	80	1.80	-	28.57	2.45	-
AV	2.4842G	46.97	54.00	-7.03	15.99	3	Horizontal	80	1.80	-	28.54	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

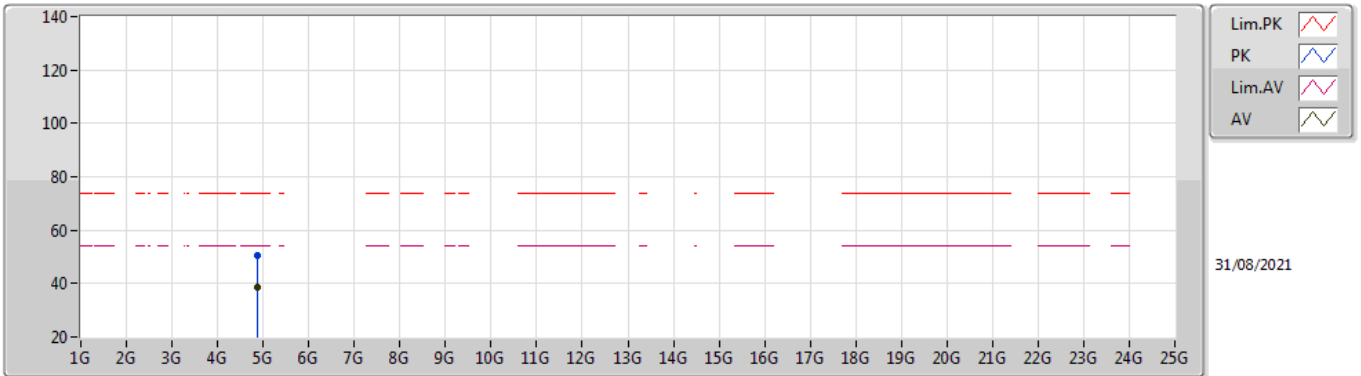


EUT Y_4TX
Setting 108
02-B-R-5

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	4.8676G	46.41	74.00	-27.59	40.98	3	Vertical	65	1.08	-	32.94	4.70	32.21
AV	4.86824G	33.69	54.00	-20.31	28.26	3	Vertical	65	1.08	-	32.94	4.70	32.21

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

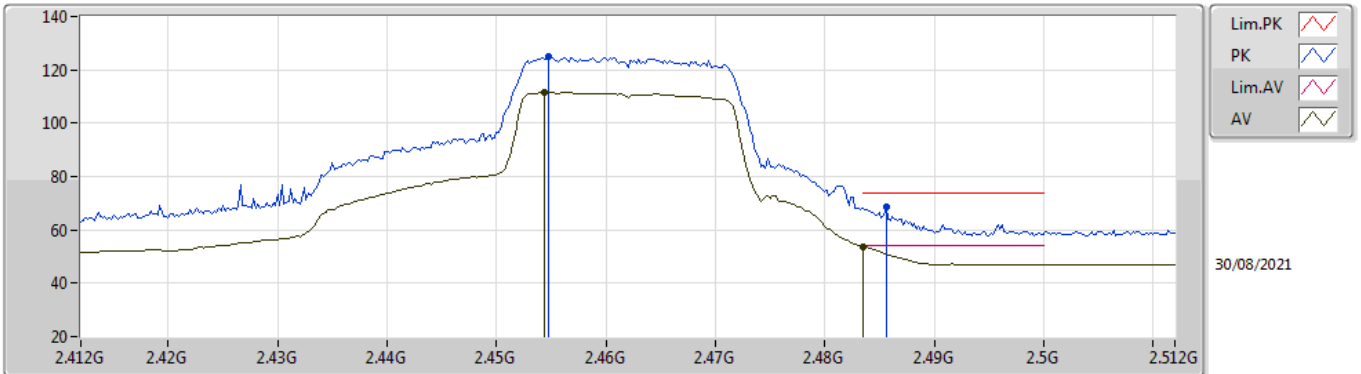


EUT Y_4TX
Setting 108
02-B-R-5

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	4.86568G	50.56	74.00	-23.44	45.14	3	Horizontal	298	1.65	-	32.93	4.70	32.21
AV	4.86456G	38.44	54.00	-15.56	33.02	3	Horizontal	298	1.65	-	32.93	4.70	32.21

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

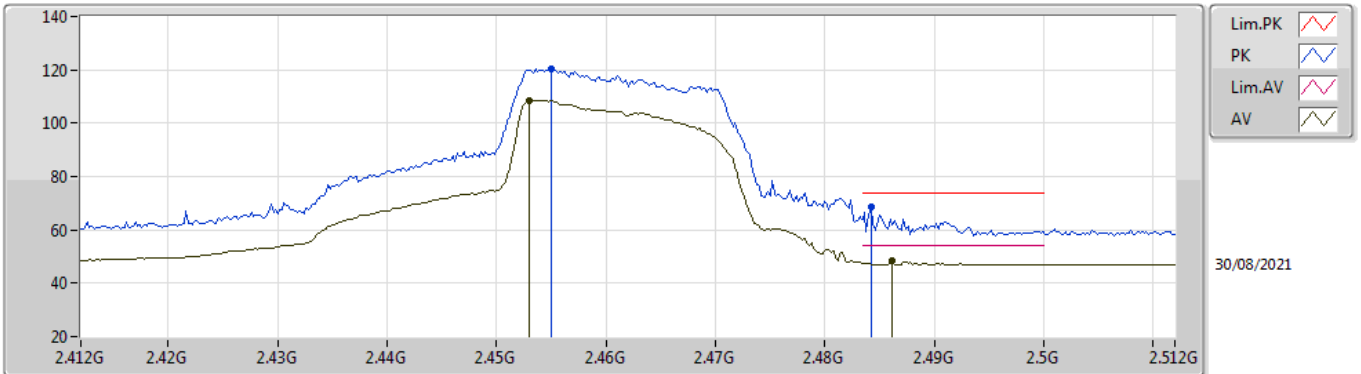


EUT Y_4TX
Setting 99
02-B-R-5

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	2.4548G	125.02	Inf	-Inf	94.17	3	Vertical	333	1.80	-	28.42	2.43	-
AV	2.4544G	111.43	Inf	-Inf	80.58	3	Vertical	333	1.80	-	28.42	2.43	-
PK	2.4856G	68.52	74.00	-5.48	37.54	3	Vertical	333	1.80	-	28.54	2.44	-
AV	2.4835G	53.62	54.00	-0.38	22.65	3	Vertical	333	1.80	-	28.53	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

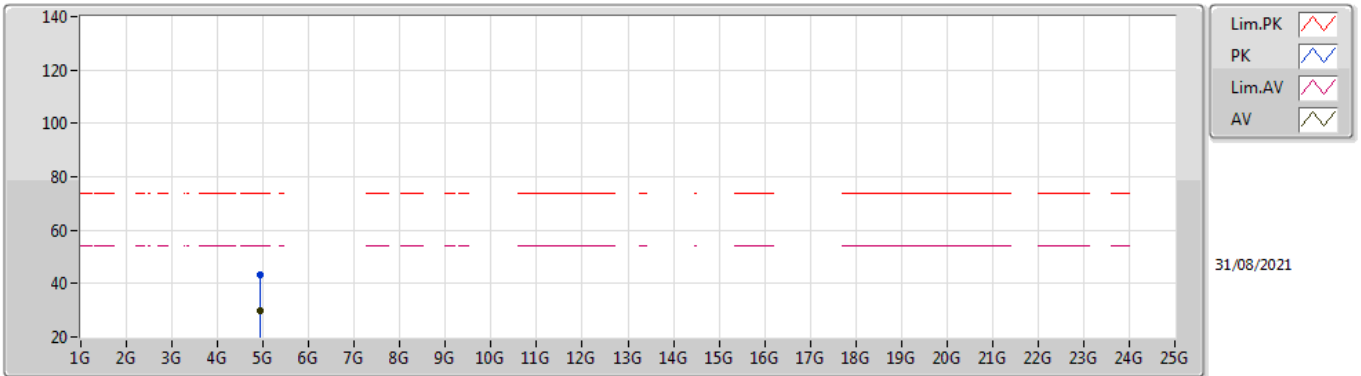


EUT_Y_4TX
Setting 99
02-B-R-5

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	2.455G	120.31	Inf	-Inf	89.46	3	Horizontal	114	1.68	-	28.42	2.43	-
AV	2.453G	108.69	Inf	-Inf	77.85	3	Horizontal	114	1.68	-	28.41	2.43	-
PK	2.4842G	68.67	74.00	-5.33	37.69	3	Horizontal	114	1.68	-	28.54	2.44	-
AV	2.4862G	48.30	54.00	-5.70	17.32	3	Horizontal	114	1.68	-	28.54	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

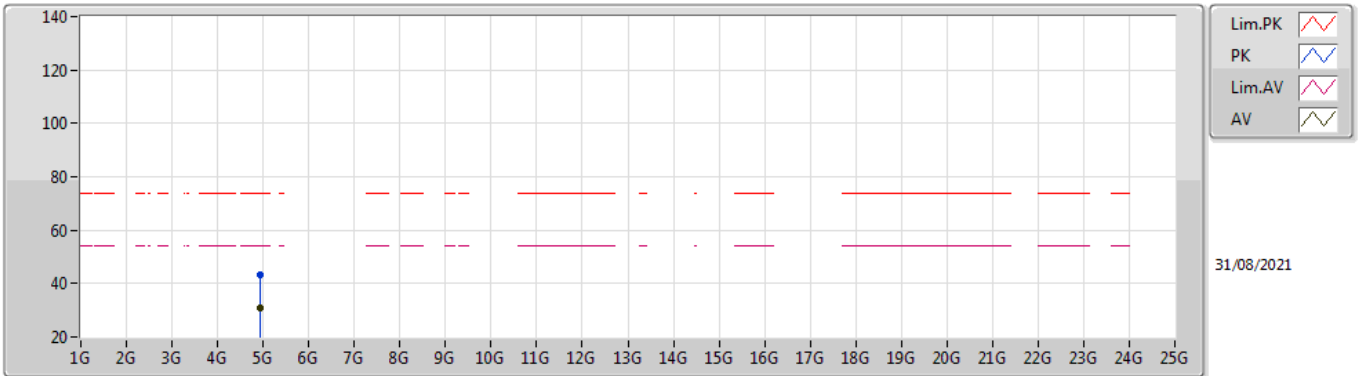


EUT Y_4TX
Setting 99
02-B-R-5

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	4.9224G	43.23	74.00	-30.77	37.59	3	Vertical	114	2.18	-	33.13	4.70	32.19	
AV	4.94464G	29.66	54.00	-24.34	23.87	3	Vertical	114	2.18	-	33.27	4.70	32.18	

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

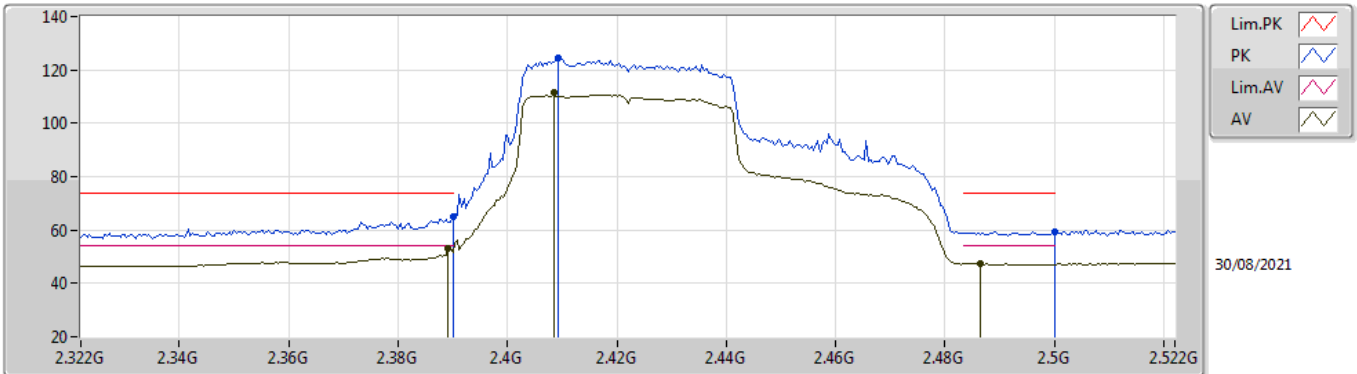


EUT Y_4TX
Setting 99
02-B-R-5

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	4.93072G	43.51	74.00	-30.49	37.81	3	Horizontal	310	1.80	-	33.18	4.70	32.18
AV	4.92544G	31.00	54.00	-23.00	25.34	3	Horizontal	310	1.80	-	33.15	4.70	32.19

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

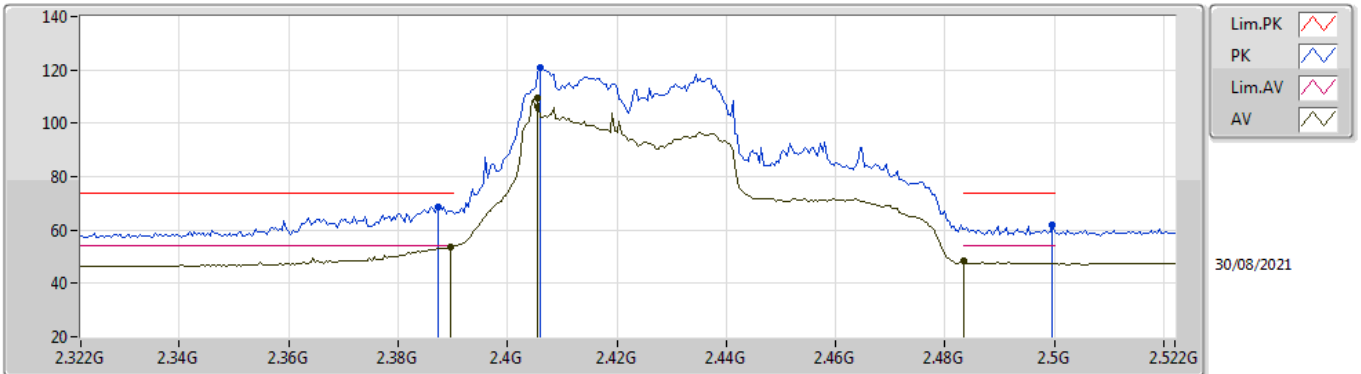


EUT_Y_4TX
Setting 102
02-B-R-5

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	2.39G	65.03	74.00	-8.97	34.24	3	Vertical	158	2.02	-	28.38	2.41	-
AV	2.3892G	53.29	54.00	-0.71	22.50	3	Vertical	158	2.02	-	28.38	2.41	-
PK	2.4092G	124.23	Inf	-Inf	93.43	3	Vertical	158	2.02	-	28.40	2.40	-
AV	2.4084G	111.72	Inf	-Inf	80.92	3	Vertical	158	2.02	-	28.40	2.40	-
PK	2.5G	59.27	74.00	-14.73	28.22	3	Vertical	158	2.02	-	28.60	2.45	-
AV	2.4864G	47.45	54.00	-6.55	16.46	3	Vertical	158	2.02	-	28.55	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

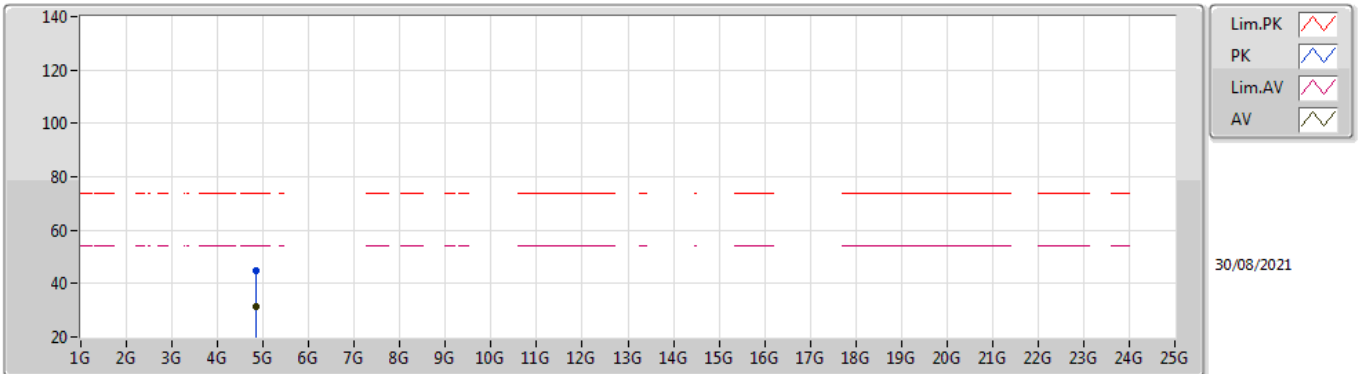


EUT_Y_4TX
Setting 102
02-B-R-5

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	2.3872G	68.57	74.00	-5.43	37.79	3	Horizontal	338	2.22	-	28.37	2.41	-
AV	2.3896G	53.70	54.00	-0.30	22.91	3	Horizontal	338	2.22	-	28.38	2.41	-
PK	2.406G	120.73	Inf	-Inf	89.93	3	Horizontal	338	2.22	-	28.40	2.40	-
AV	2.4056G	109.33	Inf	-Inf	78.53	3	Horizontal	338	2.22	-	28.40	2.40	-
PK	2.4996G	61.64	74.00	-12.36	30.59	3	Horizontal	338	2.22	-	28.60	2.45	-
AV	2.4835G	48.60	54.00	-5.40	17.63	3	Horizontal	338	2.22	-	28.53	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

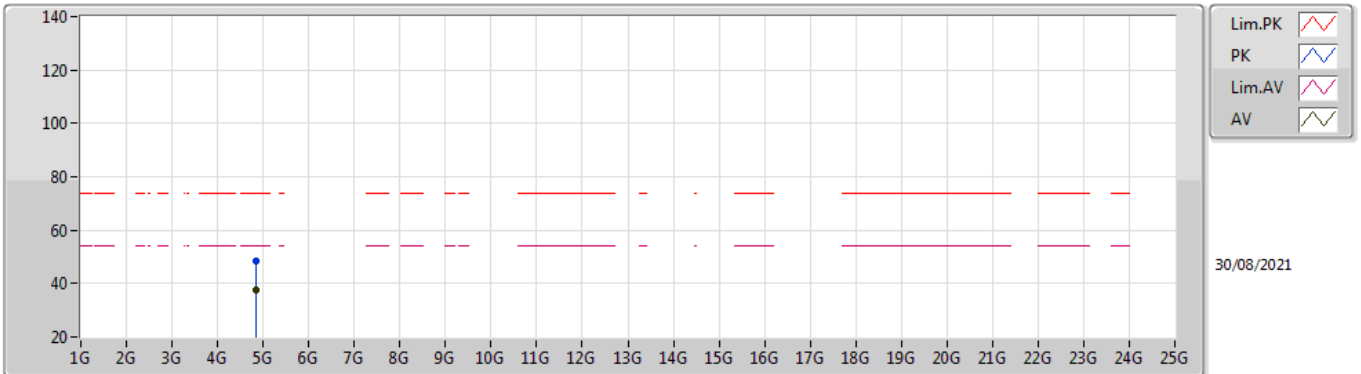


EUT Y_4TX
Setting 102
02-B-R-5

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	4.8576G	44.85	74.00	-29.15	39.44	3	Vertical	64	1.80	-	32.92	4.70	32.21
AV	4.8376G	31.16	54.00	-22.84	25.83	3	Vertical	64	1.80	-	32.85	4.70	32.22

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

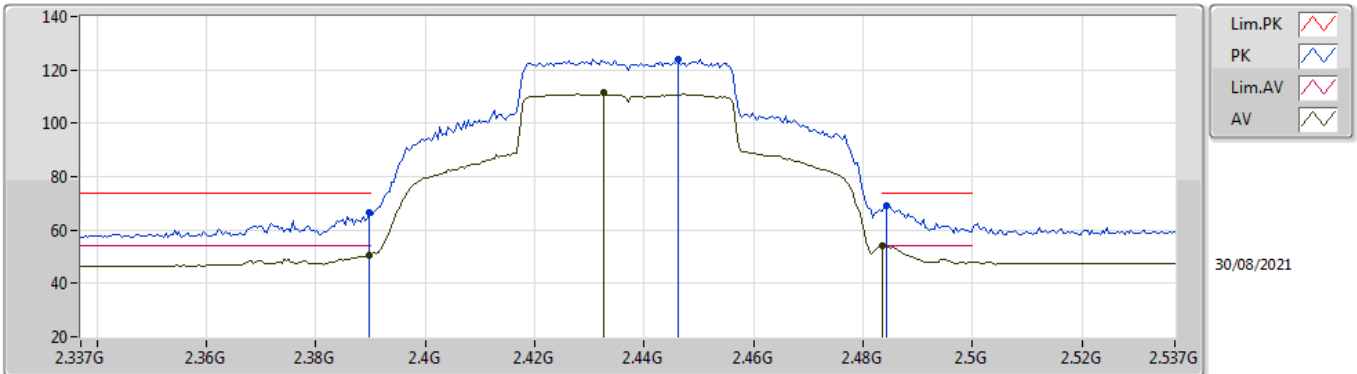


EUT_Y_4TX
Setting 102
02-B-R-5

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	4.82912G	48.59	74.00	-25.41	43.29	3	Horizontal	268	2.10	-	32.82	4.70	32.22	
AV	4.82992G	37.44	54.00	-16.56	32.14	3	Horizontal	268	2.10	-	32.82	4.70	32.22	

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

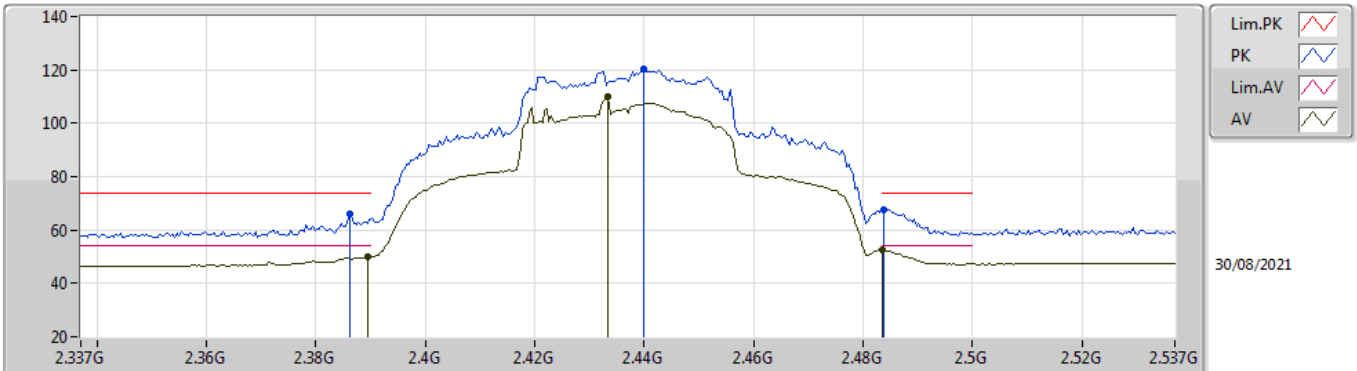


EUT_Y_4TX
Setting 103
02-B-R-5

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	66.62	74.00	-7.38	35.83	3	Vertical	285	1.80	-	28.38	2.41	-
AV	2.3898G	50.33	54.00	-3.67	19.54	3	Vertical	285	1.80	-	28.38	2.41	-
PK	2.4462G	124.17	Inf	-Inf	93.35	3	Vertical	285	1.80	-	28.40	2.42	-
AV	2.4326G	111.78	Inf	-Inf	80.96	3	Vertical	285	1.80	-	28.40	2.42	-
PK	2.4842G	69.03	74.00	-4.97	38.05	3	Vertical	285	1.80	-	28.54	2.44	-
AV	2.4835G	53.88	54.00	-0.12	22.91	3	Vertical	285	1.80	-	28.53	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

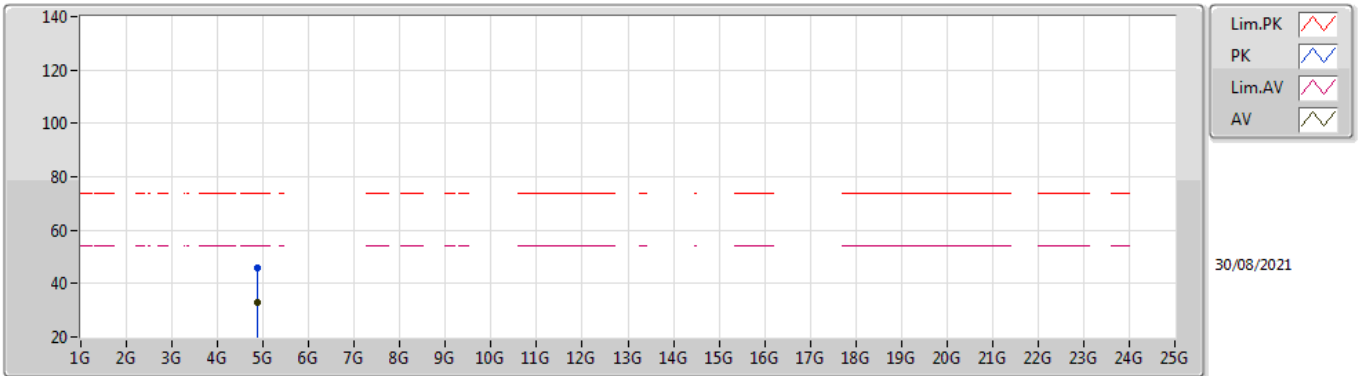


EUT_Y_4TX
Setting 103
02-B-R-5

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	2.3862G	65.90	74.00	-8.10	35.12	3	Horizontal	86.1	1.32	-	28.37	2.41	-
AV	2.3894G	49.94	54.00	-4.06	19.15	3	Horizontal	86.1	1.32	-	28.38	2.41	-
PK	2.4398G	120.52	Inf	-Inf	89.70	3	Horizontal	86.1	1.32	-	28.40	2.42	-
AV	2.4334G	109.85	Inf	-Inf	79.03	3	Horizontal	86.1	1.32	-	28.40	2.42	-
PK	2.4838G	67.83	74.00	-6.17	36.85	3	Horizontal	86.1	1.32	-	28.54	2.44	-
AV	2.4835G	52.38	54.00	-1.62	21.41	3	Horizontal	86.1	1.32	-	28.53	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

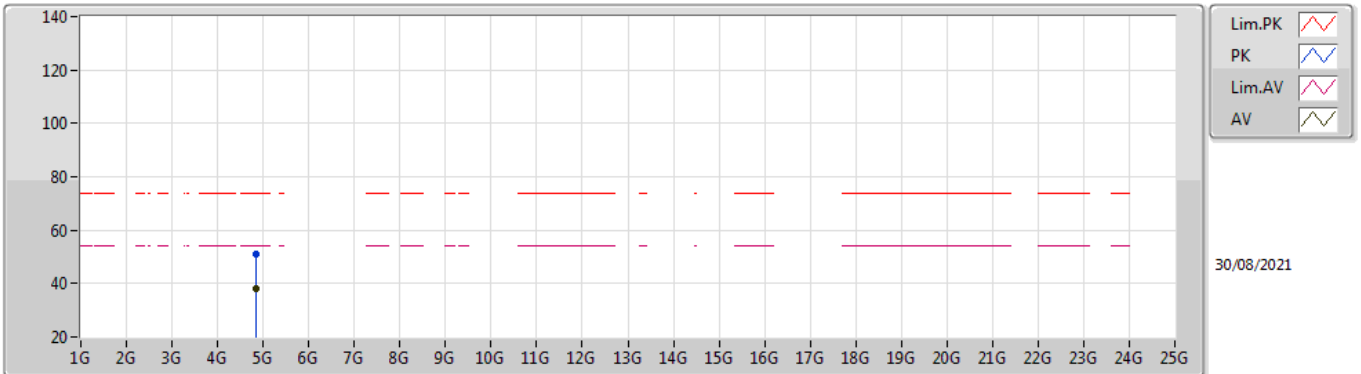


EUT Y_4TX
Setting 103
02-B-R-5

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	4.86376G	46.04	74.00	-27.96	40.62	3	Vertical	65	1.08	-	32.93	4.70	32.21	
AV	4.8652G	32.84	54.00	-21.16	27.42	3	Vertical	65	1.08	-	32.93	4.70	32.21	

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

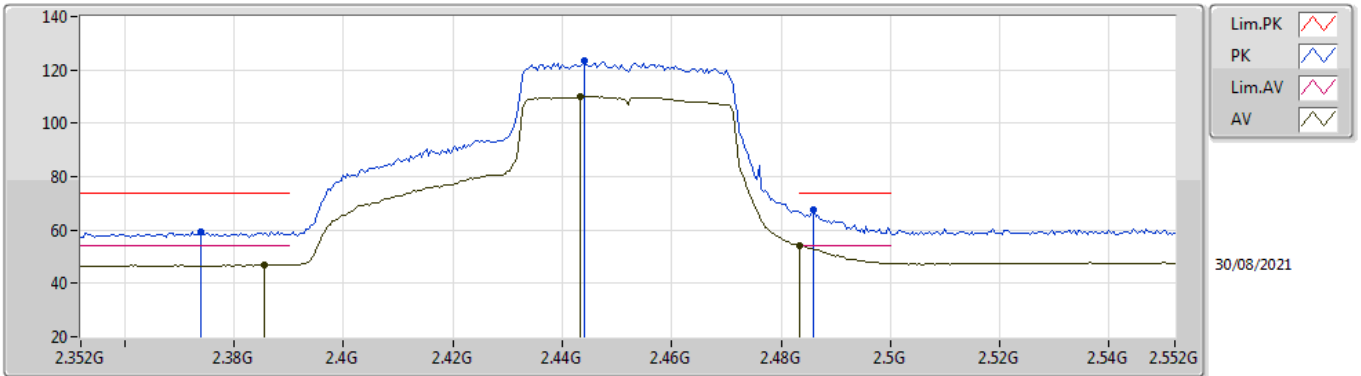


EUT Y_4TX
Setting 103
02-B-R-5

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	4.85432G	51.02	74.00	-22.98	45.62	3	Horizontal	305	1.49	-	32.91	4.70	32.21	
AV	4.85544G	37.87	54.00	-16.13	32.47	3	Horizontal	305	1.49	-	32.91	4.70	32.21	

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

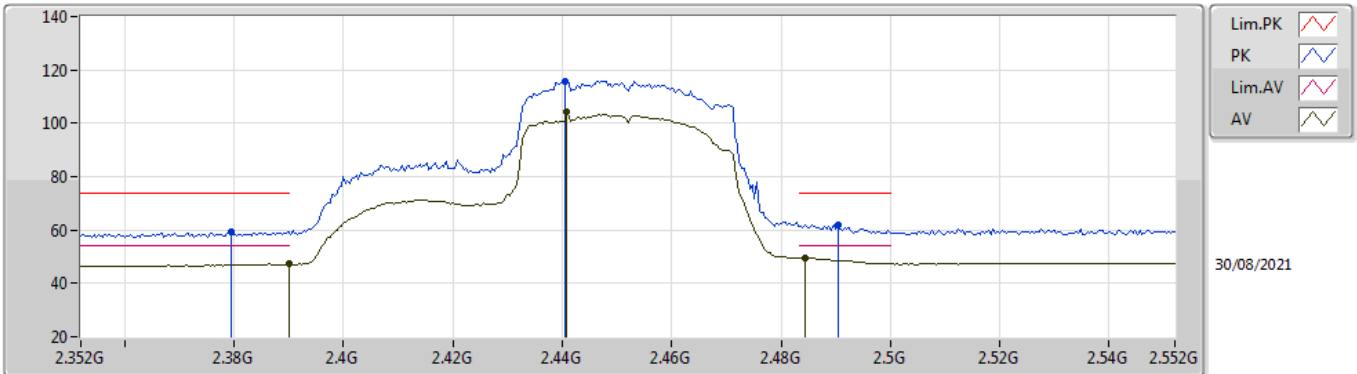


EUT_Y_4TX
Setting 98
02-B-R-5

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	2.374G	59.47	74.00	-14.53	28.71	3	Vertical	286	2.22	-	28.35	2.41	-
AV	2.3856G	47.01	54.00	-6.99	16.23	3	Vertical	286	2.22	-	28.37	2.41	-
PK	2.444G	123.20	Inf	-Inf	92.38	3	Vertical	286	2.22	-	28.40	2.42	-
AV	2.4432G	110.15	Inf	-Inf	79.33	3	Vertical	286	2.22	-	28.40	2.42	-
PK	2.486G	67.49	74.00	-6.51	36.51	3	Vertical	286	2.22	-	28.54	2.44	-
AV	2.4835G	53.94	54.00	-0.06	22.97	3	Vertical	286	2.22	-	28.53	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

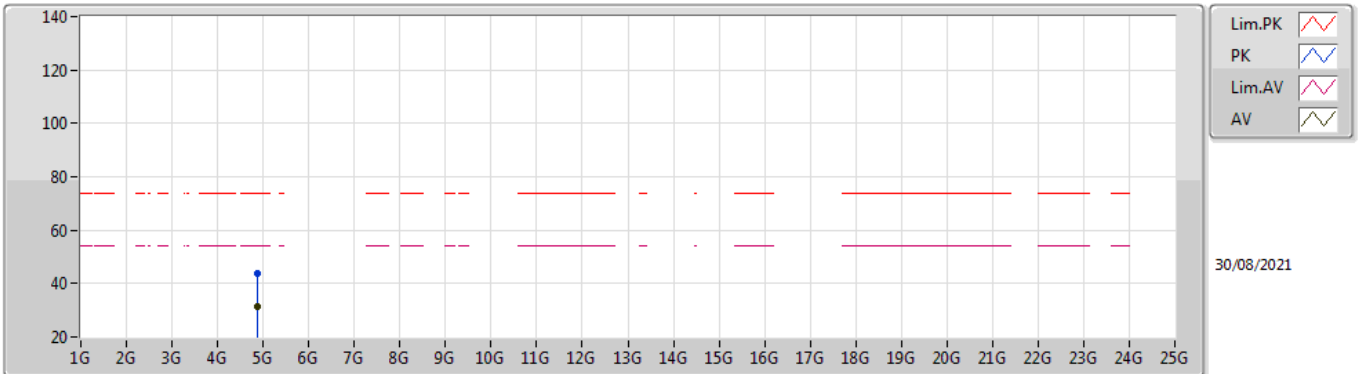


EUT_Y_4TX
Setting 98
02-B-R-5

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	2.3796G	59.21	74.00	-14.79	28.44	3	Horizontal	116.9	2.15	-	28.36	2.41	-
AV	2.39G	47.24	54.00	-6.76	16.45	3	Horizontal	116.9	2.15	-	28.38	2.41	-
PK	2.4404G	115.90	Inf	-Inf	85.08	3	Horizontal	116.9	2.15	-	28.40	2.42	-
AV	2.4408G	104.08	Inf	-Inf	73.26	3	Horizontal	116.9	2.15	-	28.40	2.42	-
PK	2.4904G	62.08	74.00	-11.92	31.07	3	Horizontal	116.9	2.15	-	28.56	2.45	-
AV	2.4844G	49.44	54.00	-4.56	18.46	3	Horizontal	116.9	2.15	-	28.54	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

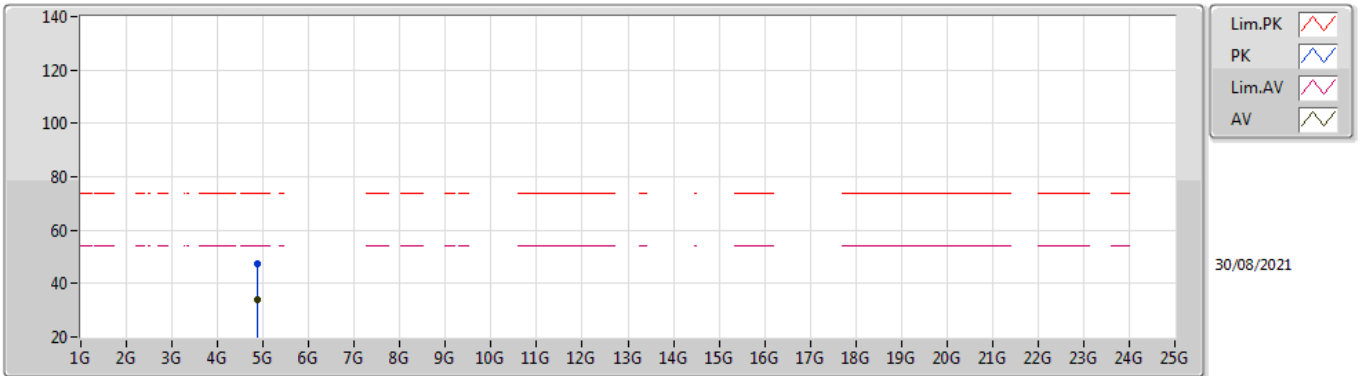


EUT Y_4TX
Setting 98
02-B-R-5

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	4.87344G	43.76	74.00	-30.24	38.32	3	Vertical	59	1.75	-	32.95	4.70	32.21	
AV	4.87568G	31.33	54.00	-22.67	25.88	3	Vertical	59	1.75	-	32.95	4.70	32.20	

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX



EUT Y_4TX
Setting 98
02-B-R-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	4.87312G	47.33	74.00	-26.67	41.89	3	Horizontal	53	1.57	-	32.95	4.70	32.21
AV	4.8752G	33.96	54.00	-20.04	28.51	3	Horizontal	53	1.57	-	32.95	4.70	32.20

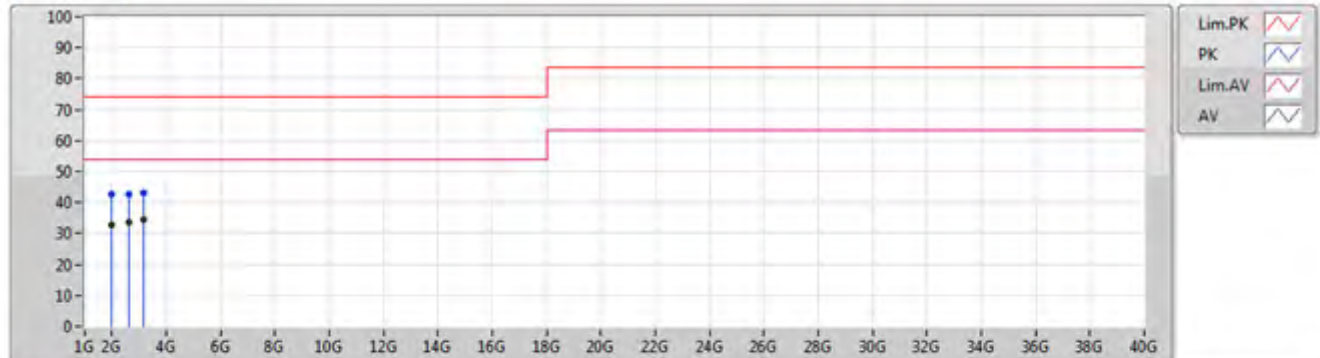


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.14238G	35.24	54.00	-18.76	Horizontal

Mode 1

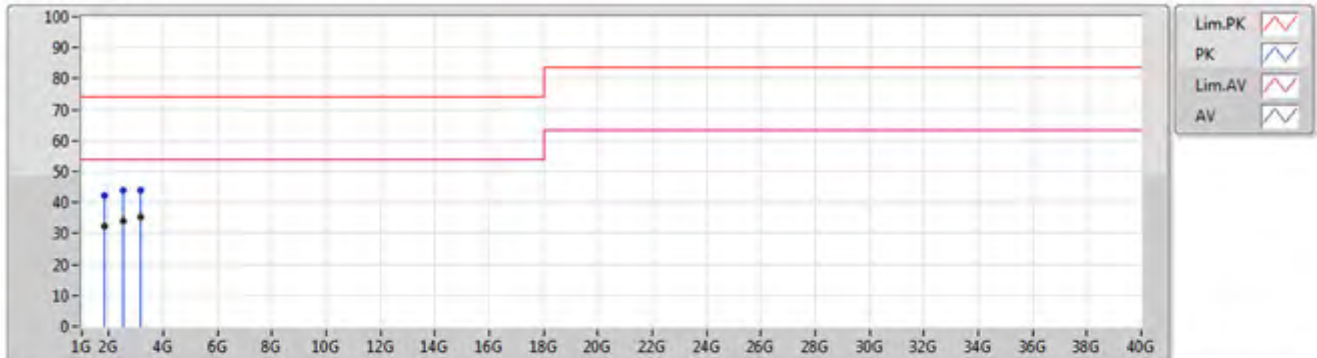
16/09/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	1.9715G	42.46	74.00	-31.54	0.69	3	Vertical	41	3.00	-	41.77	30.89	5.67	35.87
AV	1.9715G	32.89	54.00	-21.11	0.69	3	Vertical	41	3.00	-	32.20	30.89	5.67	35.87
PK	2.63125G	42.46	74.00	-31.54	2.67	3	Vertical	18	1.00	-	39.79	32.46	6.43	36.22
AV	2.63125G	33.77	54.00	-20.23	2.67	3	Vertical	18	1.00	-	31.10	32.46	6.43	36.22
PK	3.175G	42.98	74.00	-31.02	3.83	3	Vertical	360	2.00	-	39.15	33.05	6.97	36.19
AV	3.175G	34.63	54.00	-19.37	3.83	3	Vertical	360	2.00	"Worst"	30.80	33.05	6.97	36.19

Mode 1

16/09/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	1.83013G	42.43	74.00	-31.57	0.28	3	Horizontal	8	2.00	-	42.15	30.70	5.53	35.95
AV	1.83013G	32.48	54.00	-21.52	0.28	3	Horizontal	8	2.00	-	32.20	30.70	5.53	35.95
PK	2.52975G	43.91	74.00	-30.09	2.63	3	Horizontal	67	1.00	-	41.28	32.50	6.33	36.20
AV	2.52975G	34.13	54.00	-19.87	2.63	3	Horizontal	67	1.00	-	31.50	32.50	6.33	36.20
PK	3.14238G	43.88	74.00	-30.12	3.84	3	Horizontal	127	3.00	-	40.04	33.10	6.94	36.20
AV	3.14238G	35.24	54.00	-18.76	3.84	3	Horizontal	127	3.00	"Worst"	31.40	33.10	6.94	36.20