

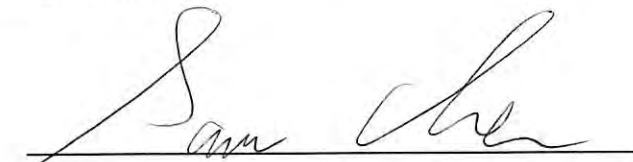


RADIO TEST REPORT

FCC ID : MSQ-RTAX5S00
Equipment : TUF Gaming AX4200 Dual Band WiFi 6 Router
Brand Name : ASUS
Model Name : TUF-AX4200
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan
Manufacturer (1) : SHENZHEN GONGJIN ELECTRONICS CO.,LTD
No. 2 Danzi North Road, Kengzi Street, Pingshan District,
Shenzhen, Guangdong, China
Manufacturer (2) : TONG WEI ELECTRONICS (VIETNAM) COMPANY LIMITED
Block C-04 and part C-05 of Lot CN12, An Duong
Industrial Zone, Hong Phong Commune, An Duong
District, Hai Phong City, Vietnam
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 16, 2022, and testing was started from Aug. 26, 2022 and completed on Oct. 31, 2022. 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
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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Photographs of EUT v02



History of this test report

Report No.	Version	Description	Issued Date
FR232205AA	01	Initial issue of report	Nov. 07, 2022
FR232205AA	02	Revising the Photographs of EUT	Nov. 08, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
0	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:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

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: **Sandy Chuang**



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	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:

- ◆ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ◆ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	2	1	Wha Yu	C6319-510334-A SZ2207-064	Dipole	I-PEX	Note 1
2	-	2	Wha Yu	C6319-510335-A SZ2207-065	Dipole	I-PEX	
3	1	-	Wha Yu	C6319-510337-A SZ2208-033	Dipole	I-PEX	
4	-	3	Wha Yu	C6319-510336-A SZ2207-066	Dipole	I-PEX	

Note 1:

Ant.	Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3
1	2.59	3.32	3.32	3.41	3.31
2	-	2.32	2.32	2.16	2.20
3	2.17	-	-	-	-
4	-	2.18	2.18	2.27	2.45

Note 2: The above information was declared by manufacturer.



Note 3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N _{ANT} ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$$

NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20};

g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3))²

DG = 10 log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3))² / N_{ANT}] => 10 log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})² / N_{ANT}]

Where ;

2.4G G1 = 2.59 dBi; G2 = 2.17 dBi ;

2T1S DG = 5.39 dBi ; 2T2S DG = 2.39 dBi ;

5G Band1 G1 = 3.32 dBi; G2 = 2.32 dBi; G3 = 2.18 dBi ;

3T1S DG = 7.39 dBi ; 3T2S DG = 4.93 dBi

5G Band2 G1 = 3.32 dBi; G2 = 2.32dBi; G3 = 2.18 dBi ;

3T1S DG = 7.39 dBi ; 3T2S DG = 4.93 dBi

5G Band3 G1 = 3.41 dBi; G2 = 2.16 dBi; G3 = 2.27 dBi ;

3T1S DG = 7.40 dBi ; 3T2S DG = 4.95 dBi

5G Band4 G1 = 3.31 dBi; G2 = 2.20 dBi; G3 = 2.45 dBi ;

3T1S DG = 7.44 dBi ; 3T2S DG = 7.98 dBi

Note 4: <For WLAN 2.4GHz function>

For IEEE 802.11b/g/n/VHT/ax(2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For WLAN 5GHz function>

For IEEE 802.11a/n/ac/ax (3TX/3RX):

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

Port 1, Port 2 and Port 3 could transmit/receive simultaneously

**1.1.3 Mode Test Duty Cycle****For Non-beamforming Mode:**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.943	0.25	940u	3k
802.11g	0.884	0.54	364.5u	3k
802.11ax HEW20	0.989	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.987	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)

For Beamforming Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF	0.94	0.27	3.785m	300
802.11ax HEW40-BF	0.904	0.44	1.921m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Test Software Version	DOS V6.1.7601			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT supports functions

Function	Function Type
AP	Master
Bridge	Slave without radar detection
Repeater	Master
Mesh	Master

Note 1: The AP Router (Master) mode has been tested and recorded in this test 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 662911 D01 v02r01
- ◆ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	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	Owen Hsu	23.5~23.9 / 61~63	Sep. 08, 2022~ Sep. 20, 2022
Radiated Emission < 1GHz	03CH05-CB	Stim Sung	22.7~24 / 56~58	Oct. 13, 2022
Radiated Emission > 1GHz	03CH06-CB	Stim Sung	24.8~25.7 / 62~66	Aug. 26, 2022~ Sep. 17, 2022
Radiated Emission Co-location	03CH05-CB	Stim Sung	22.7~24 / 56~58	Oct. 31, 2022
AC Conduction	CO02-CB	Tim Chen	25~26 / 58~59	Oct. 21, 2022

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Non-beamforming Mode:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	49
2437MHz	49
2462MHz	49
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	45
2417MHz	48
2437MHz	54
2457MHz	47
2462MHz	44
802.11ax HEW20_Nss2,(MCS0)_2TX	-
2412MHz	40
2417MHz	43
2437MHz	47
2457MHz	42
2462MHz	40
802.11ax HEW40_Nss2,(MCS0)_2TX	-
2422MHz	35
2427MHz	38
2437MHz	42
2447MHz	38
2452MHz	36



For Beamforming Mode:

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	38
2417MHz	43
2437MHz	48
2457MHz	42
2462MHz	39
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	36
2437MHz	41
2452MHz	36

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.
- ♦ The EUT supports non-beamforming and beamforming modes, after evaluating, the beamforming mode has been evaluated to be the worst case, so it was selected to test.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT

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	CTX
	1. After evaluation, EUT in Z axis was the worst case at Emissions in Restricted Frequency Bands test, and it was tested and recorded in this report. 2. The EUT performed testing at 2.4GHz and 5GHz, and the worst case was found at 5GHz. So the measurement will follow this same test configuration.
1	EUT in Z axis / WLAN 5GHz
Operating Mode > 1GHz	CTX
	After evaluation, EUT in Z axis was the worst case at Emissions in Restricted Frequency Bands test, and it was tested and recorded in this report.
1	EUT in Z axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	After evaluation, EUT in Z axis was the worst case at Radiated Emissions test, and it was tested and recorded in this report.
1	EUT in Z axis / WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA232205 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

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

For Normal Link Mode:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	Frecom	F30L10-120250SPAU	Input: 100-240V~50/60Hz, 1.25A Output: 12.0V, 2.5A, 30.0W
Others			
RJ-45 cable*1: Non-Shielded, 1m			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN1 NB	DELL	E6430	N/A
B	LAN4 NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	WAN PC	DELL	E6430	N/A
F	HDD 3.0	Transcend	JetFlash-700	N/A

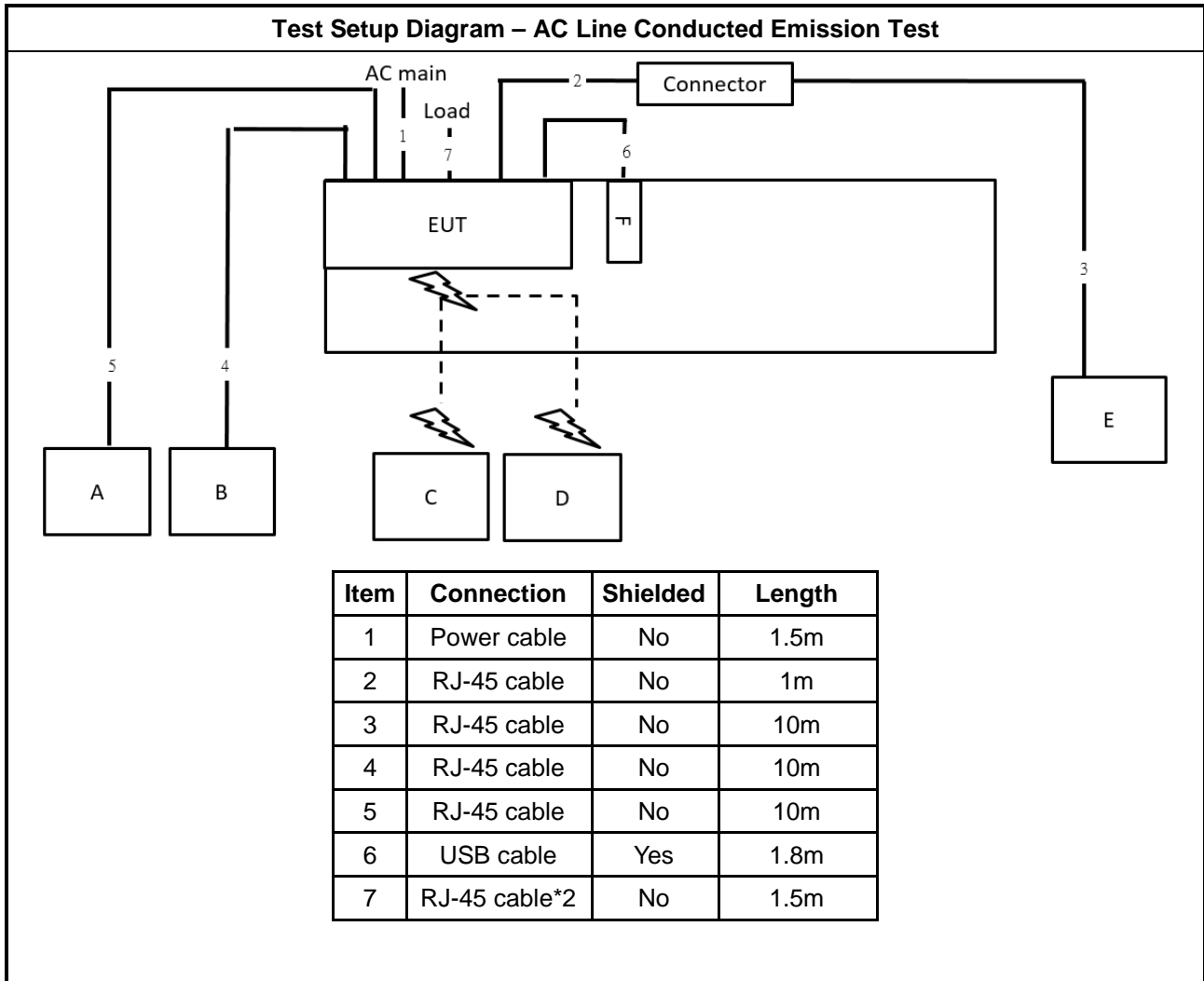
For Radiated below 1GHz, Radiated above 1GHz (Non-beamforming mode) and RF Conducted (Non-beamforming mode):

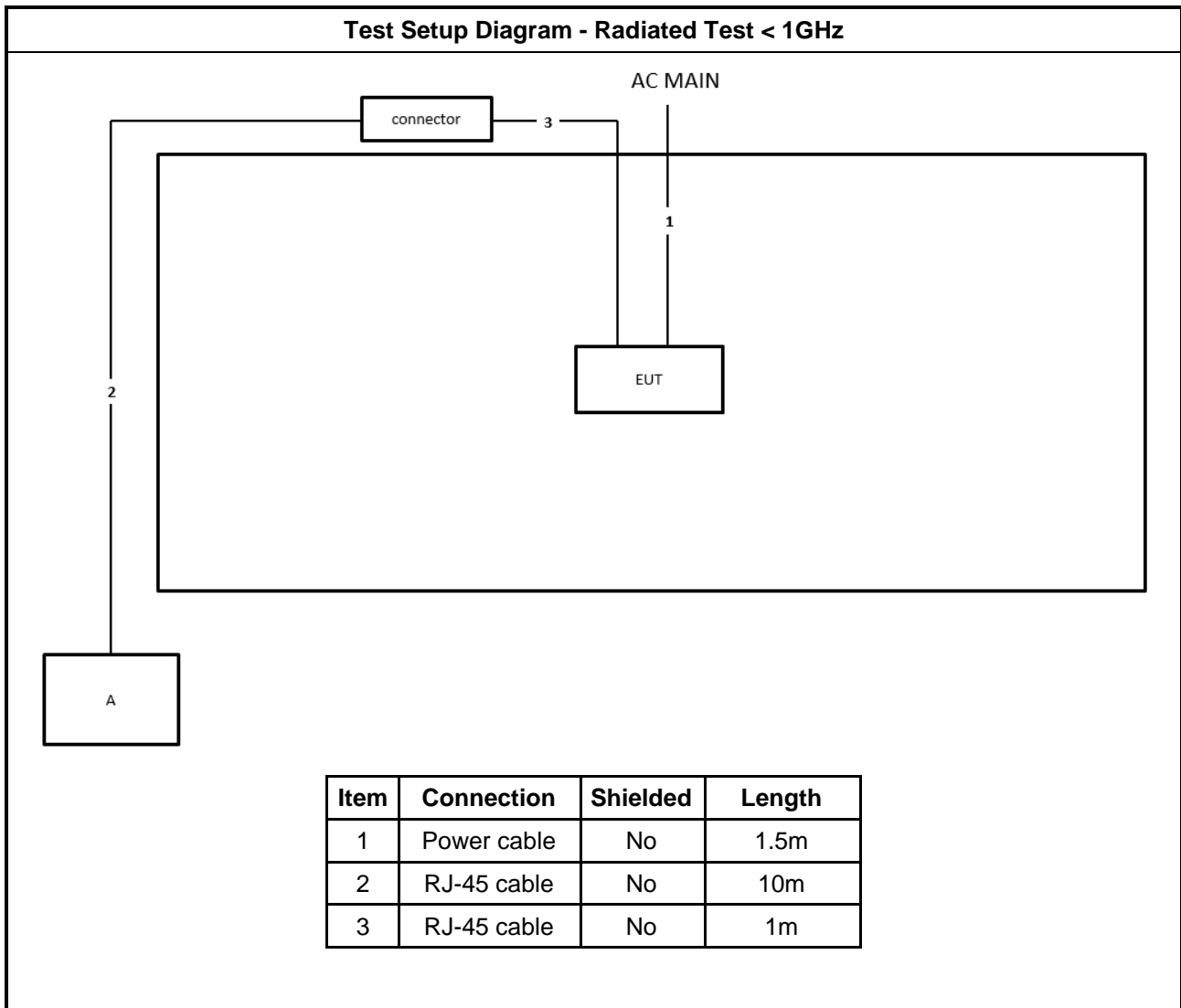
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

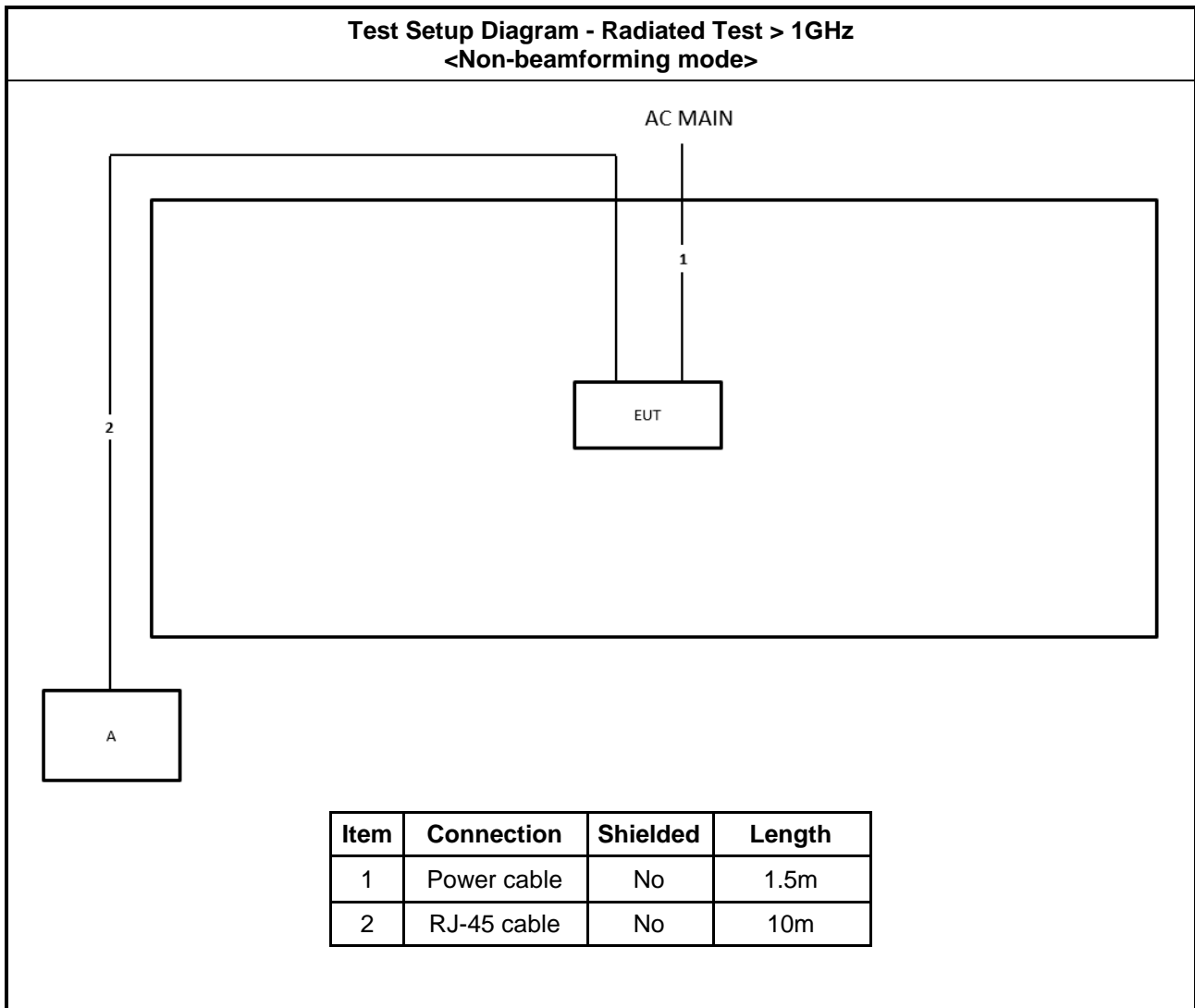
For Radiated above 1GHz (Beamforming mode) and RF Conducted (Beamforming mode):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Client	ASUS	TUF-AX4200	N/A

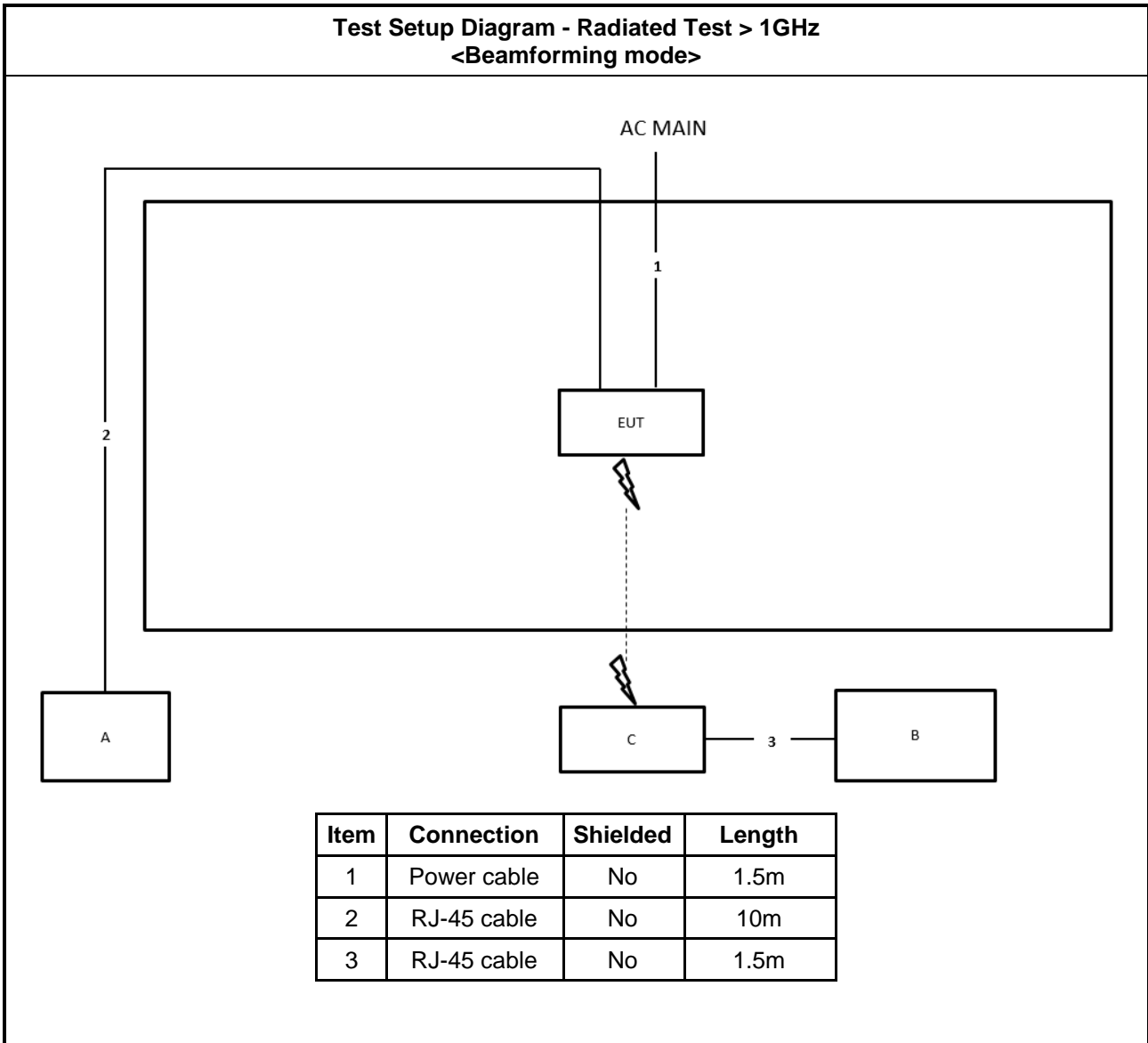
2.6 Test Setup Diagram







**Test Setup Diagram - Radiated Test > 1GHz
<Beamforming mode>**



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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

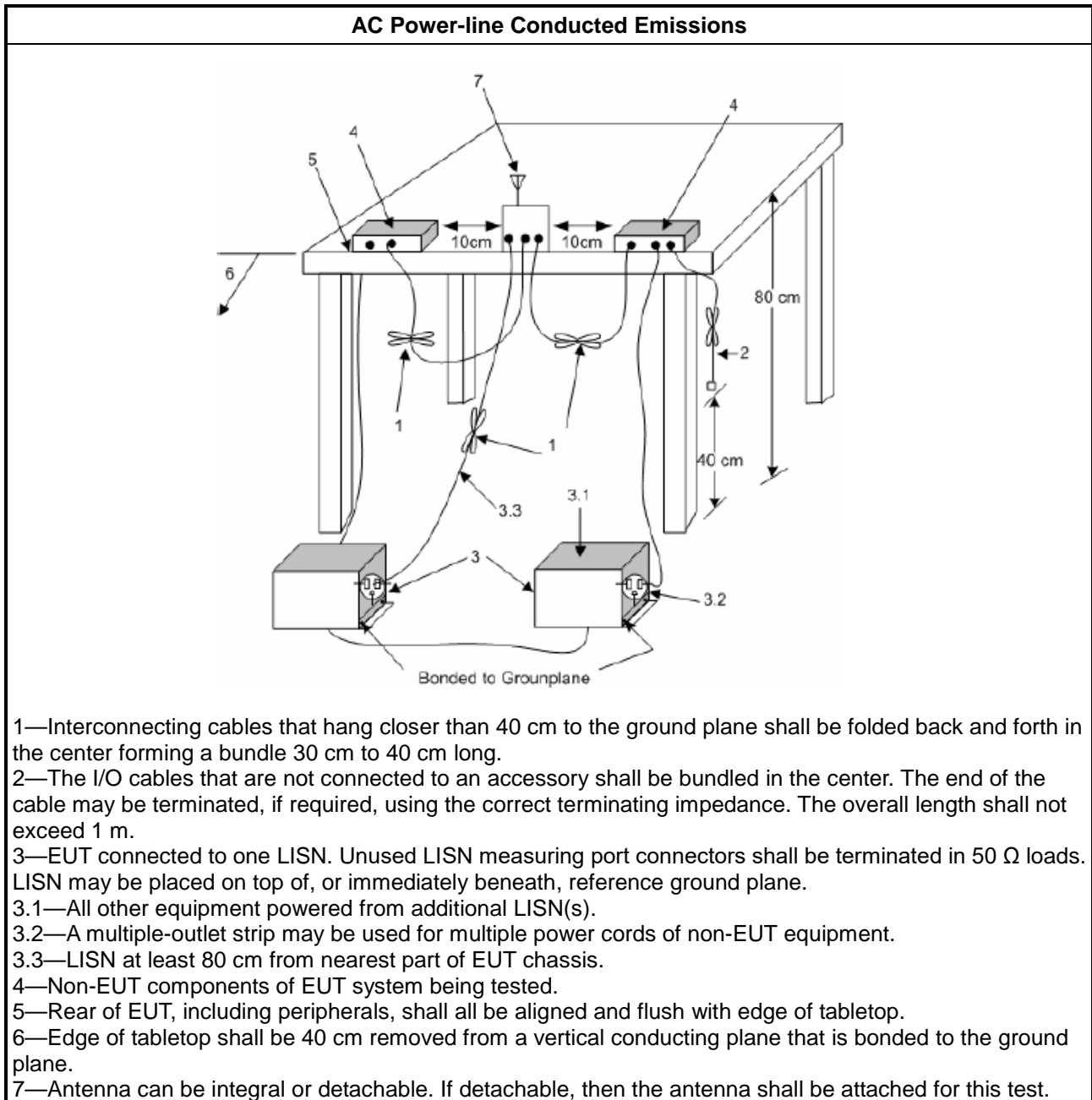
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 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:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

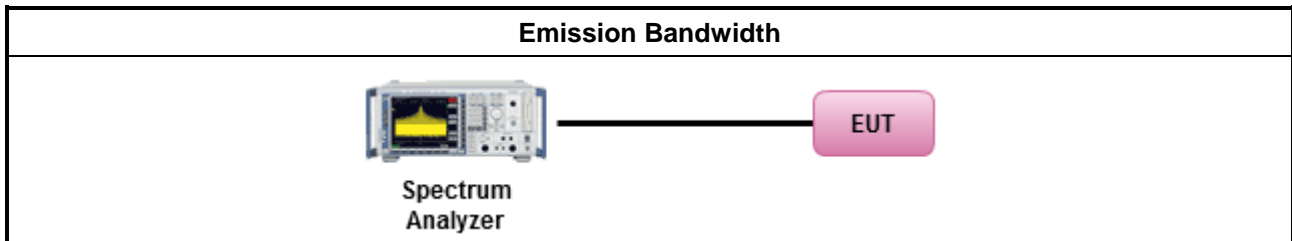
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none">▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none">▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none">▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">▪ Smart antenna system (SAS):
	<ul style="list-style-type: none">- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

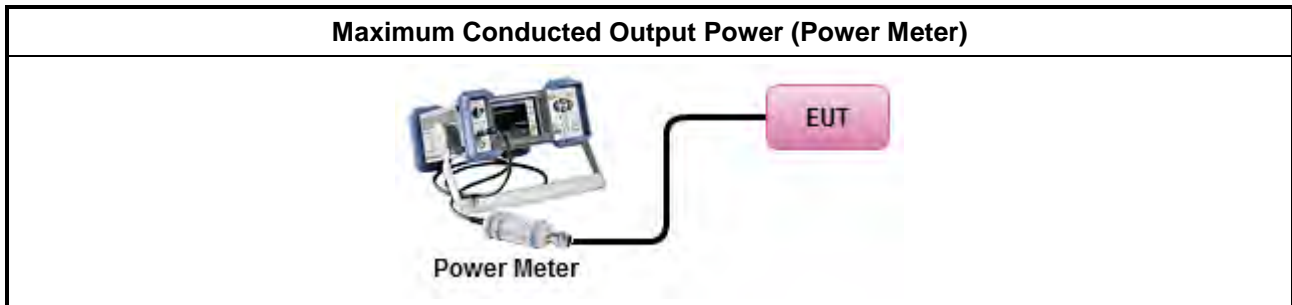
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

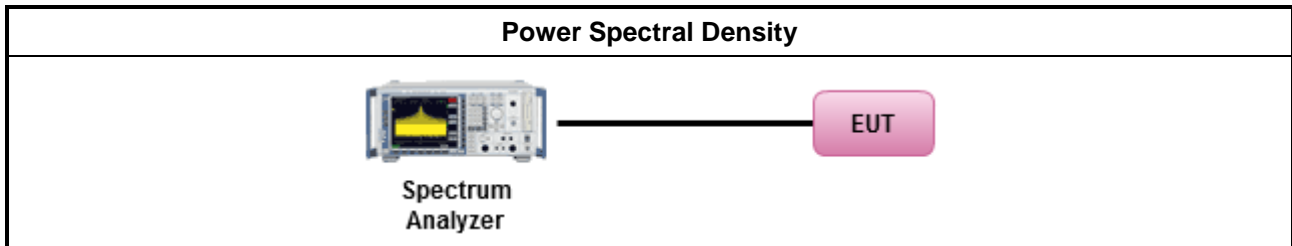
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method			
<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option). 			
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.			
<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <table border="1"> <tbody> <tr> <td> <input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. </td> </tr> <tr> <td> <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, </td> </tr> <tr> <td> <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. </td> </tr> </tbody> </table> 	<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.			
<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,			
<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.			

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

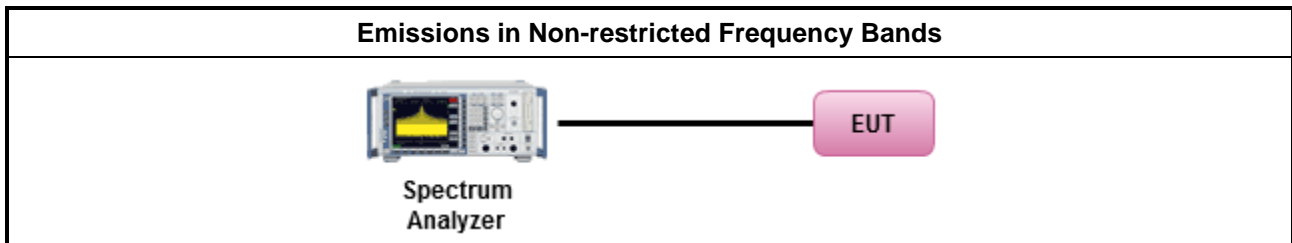
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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

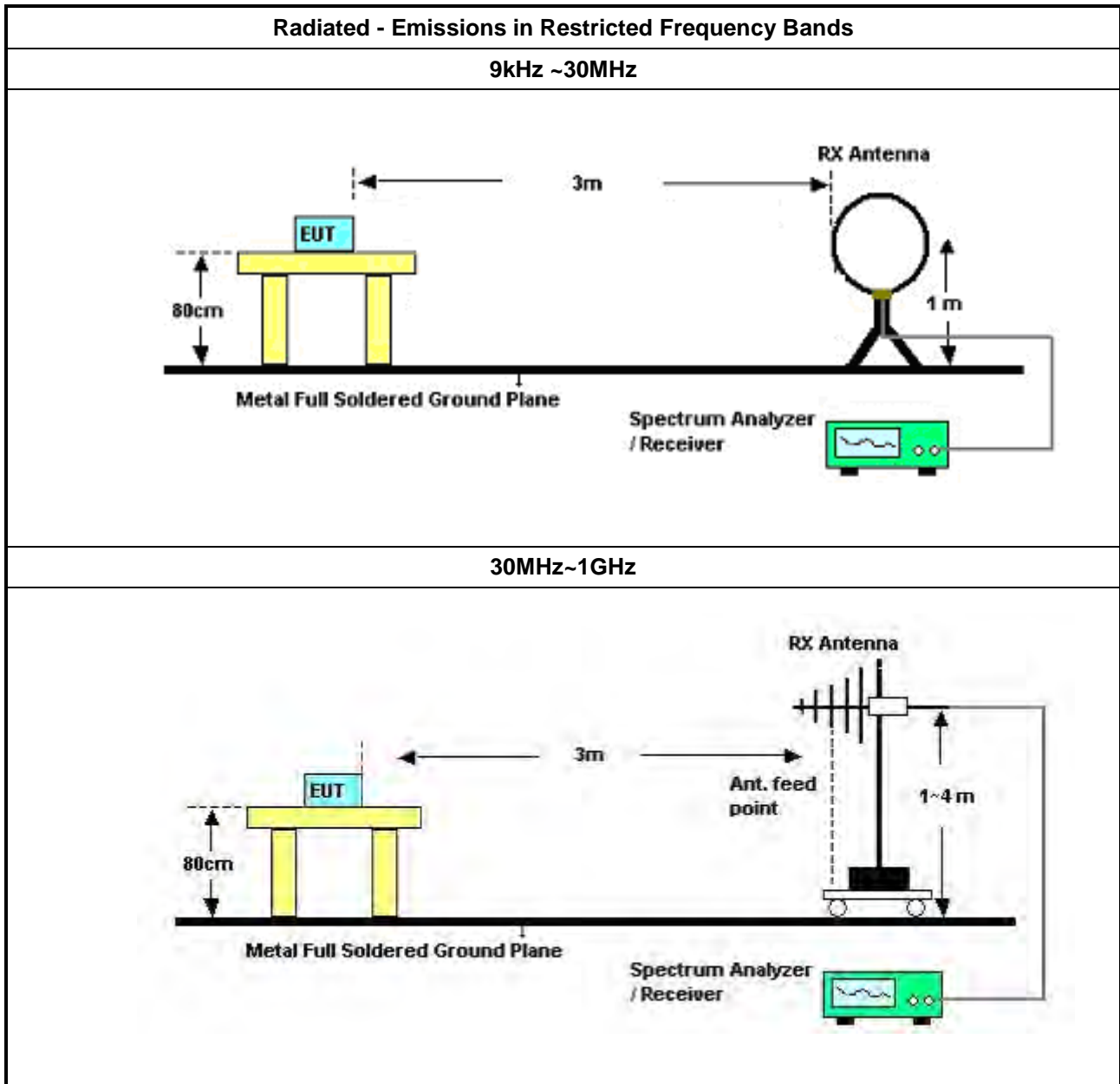
Refer a test equipment and calibration data table in this test report.

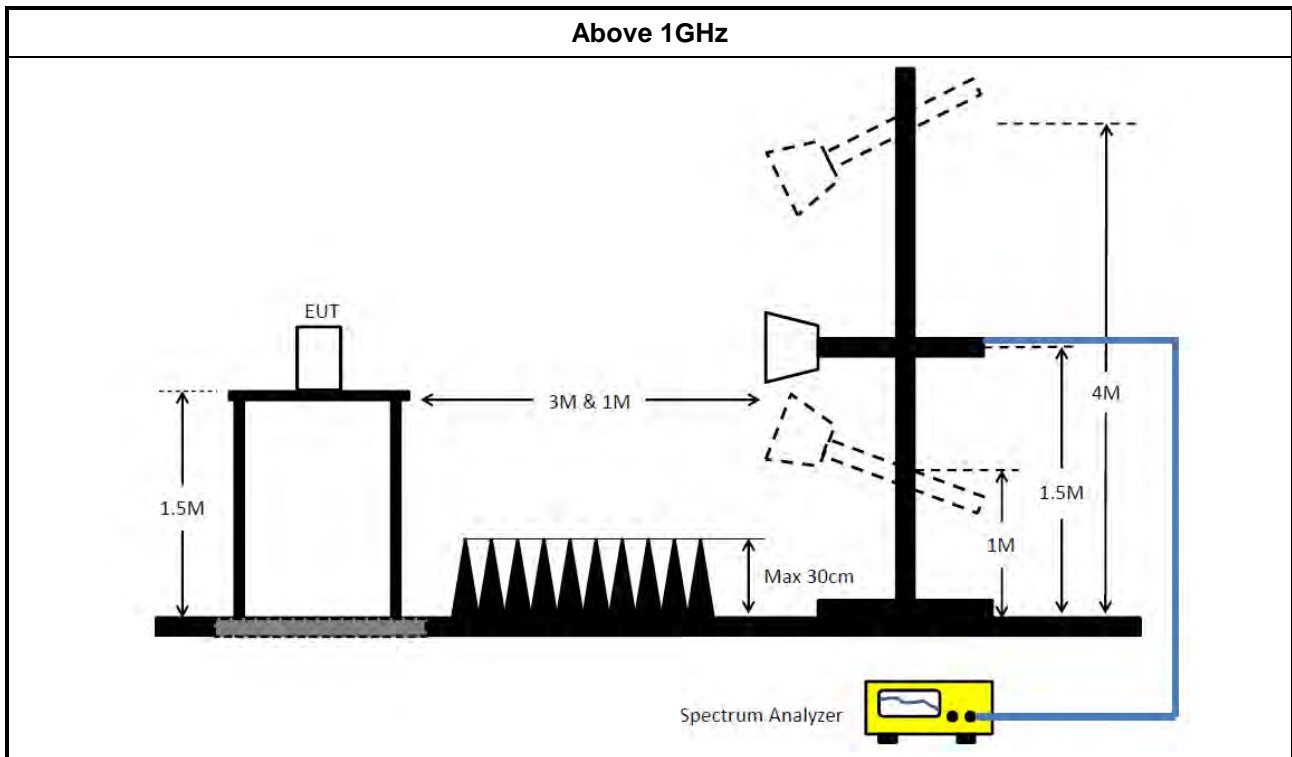


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle \geq 98%).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW \geq 1/T).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074 clause 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.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ 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).
	<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 22, 2021	Dec. 21, 2022	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 09, 2022	Aug. 08, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	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.

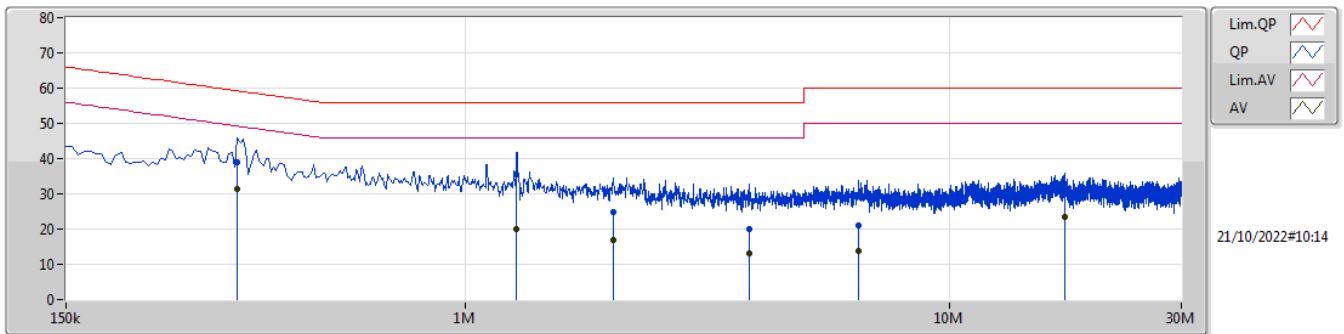
NCR means Non-Calibration required.



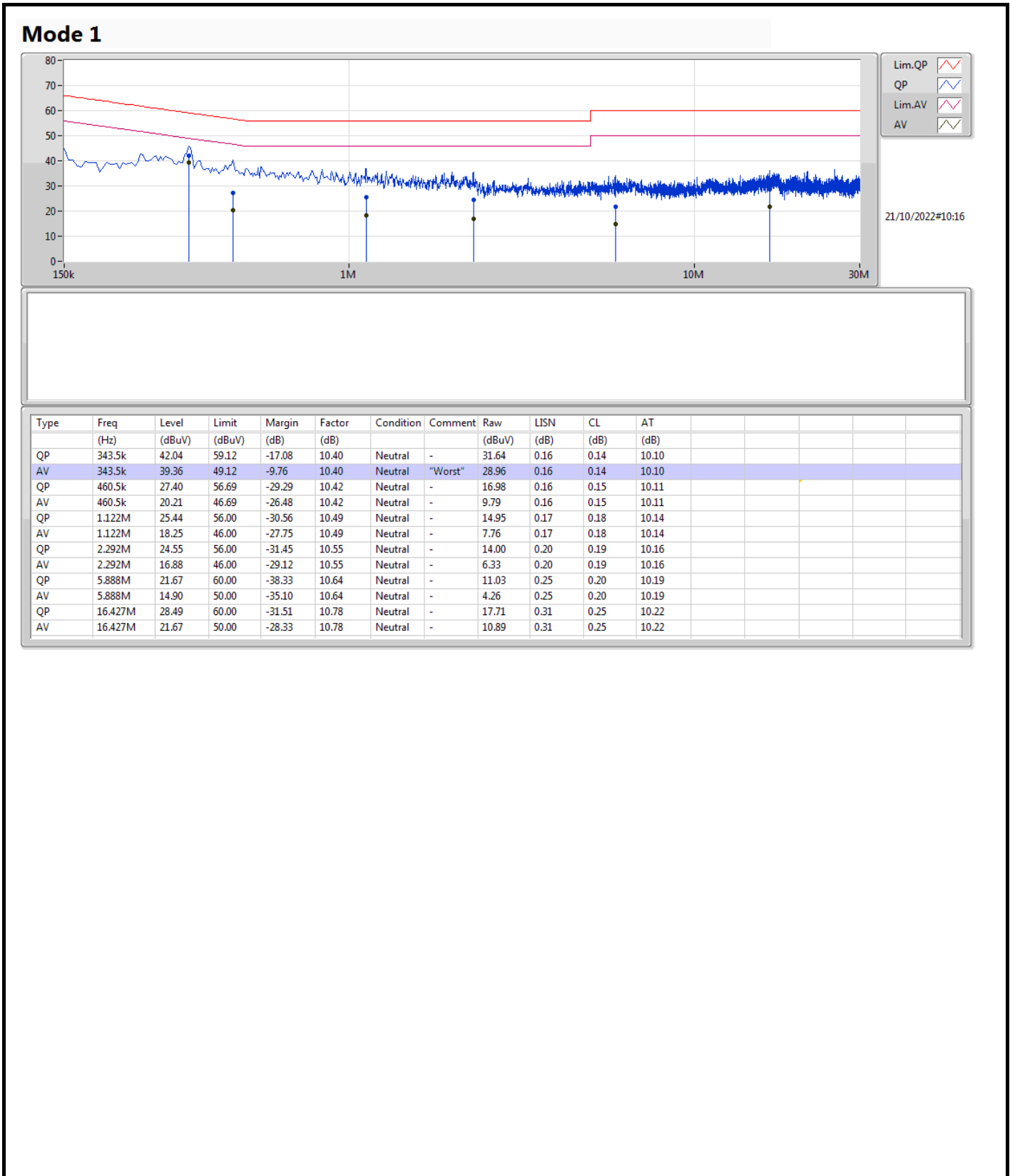
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	343.5k	39.36	49.12	-9.76	Neutral

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	339k	39.02	59.23	-20.21	10.36	Line	-	28.66	0.12	0.14	10.10
AV	339k	31.53	49.23	-17.70	10.36	Line	"Worst"	21.17	0.12	0.14	10.10
QP	1.275M	35.56	56.00	-20.44	10.47	Line	-	25.09	0.15	0.18	10.14
AV	1.275M	19.93	46.00	-26.07	10.47	Line	-	9.46	0.15	0.18	10.14
QP	2.018M	24.98	56.00	-31.02	10.51	Line	-	14.47	0.17	0.19	10.15
AV	2.018M	16.92	46.00	-29.08	10.51	Line	-	6.41	0.17	0.19	10.15
QP	3.845M	20.06	56.00	-35.94	10.62	Line	-	9.44	0.23	0.20	10.19
AV	3.845M	13.16	46.00	-32.84	10.62	Line	-	2.54	0.23	0.20	10.19
QP	6.468M	20.89	60.00	-39.11	10.69	Line	-	10.20	0.29	0.21	10.19
AV	6.468M	13.95	50.00	-36.05	10.69	Line	-	3.26	0.29	0.21	10.19
QP	17.232M	30.15	60.00	-29.85	10.84	Line	-	19.31	0.37	0.25	10.22
AV	17.232M	23.32	50.00	-26.68	10.84	Line	-	12.48	0.37	0.25	10.22





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.2M	12.469M	12M5G1D	7.375M	12.219M
802.11g_Nss1,(6Mbps)_2TX	16.425M	16.667M	16M7D1D	16.325M	16.467M
802.11ax HEW20_Nss2,(MCS0)_2TX	16.5M	18.991M	19M0D1D	15.075M	18.741M
802.11ax HEW40_Nss2,(MCS0)_2TX	35.5M	37.781M	37M8D1D	35.05M	37.431M

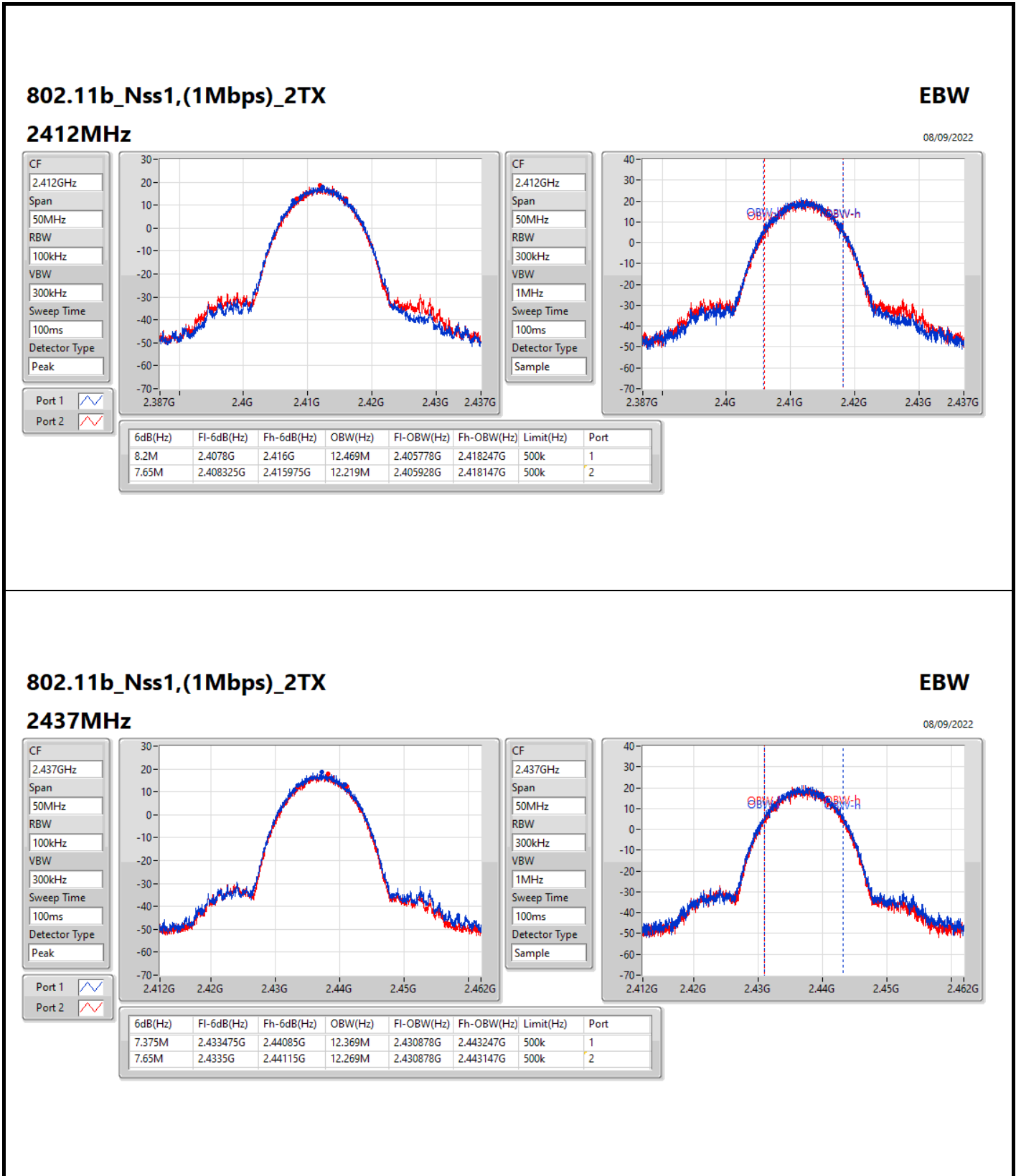
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

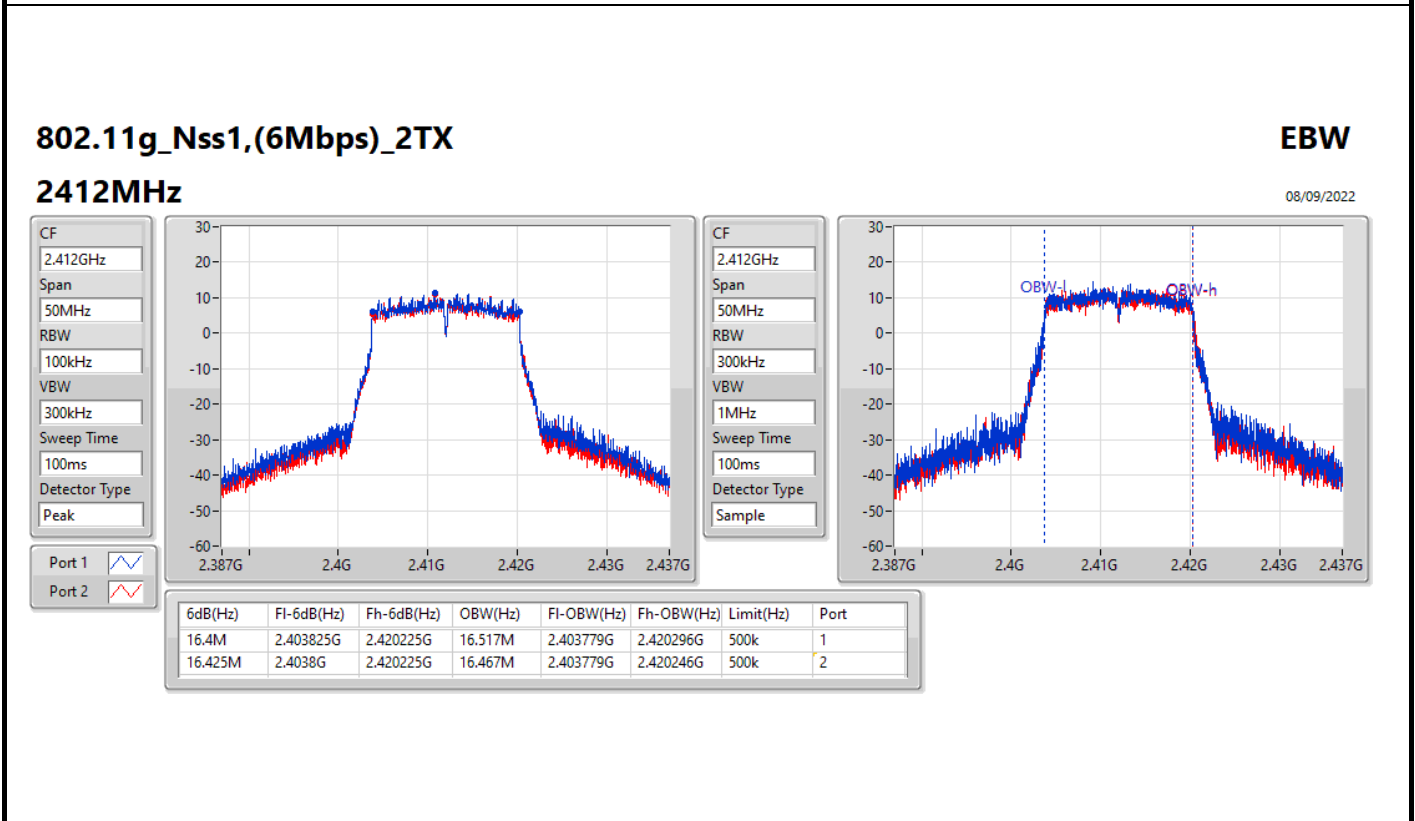
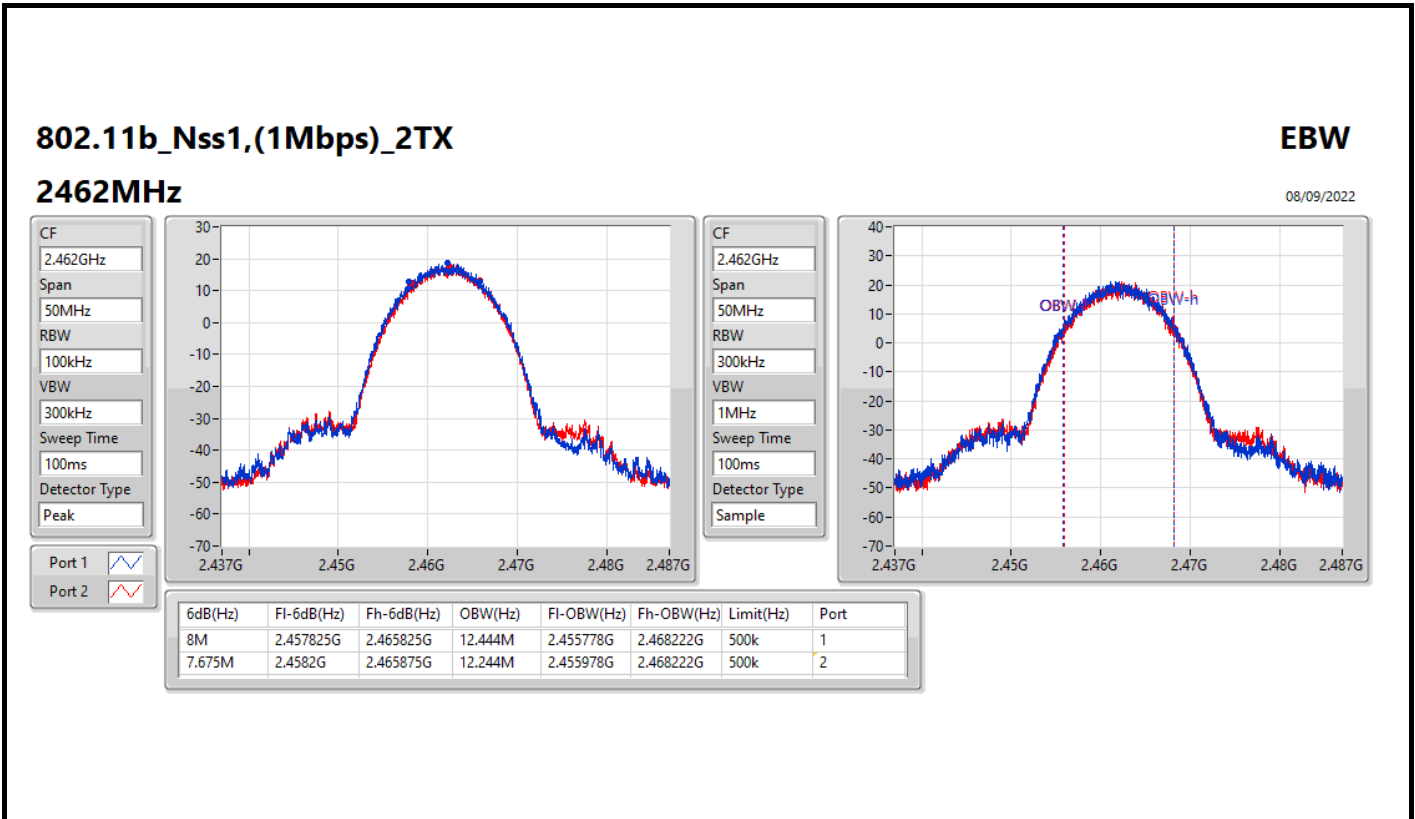


Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.2M	12.469M	7.65M	12.219M
2437MHz	Pass	500k	7.375M	12.369M	7.65M	12.269M
2462MHz	Pass	500k	8M	12.444M	7.675M	12.244M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.4M	16.517M	16.425M	16.467M
2437MHz	Pass	500k	16.325M	16.617M	16.325M	16.667M
2462MHz	Pass	500k	16.425M	16.492M	16.325M	16.467M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.875M	18.766M	16.5M	18.741M
2437MHz	Pass	500k	15.1M	18.991M	15.075M	18.991M
2462MHz	Pass	500k	16M	18.791M	15.075M	18.841M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.1M	37.581M	35.05M	37.731M
2437MHz	Pass	500k	35.05M	37.781M	35.05M	37.631M
2452MHz	Pass	500k	35.5M	37.431M	35.05M	37.581M

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





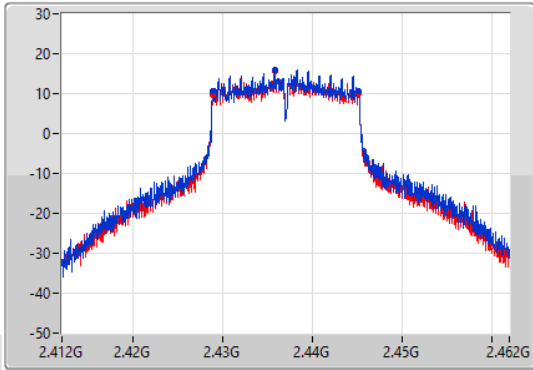
802.11g_Nss1,(6Mbps)_2TX

EBW

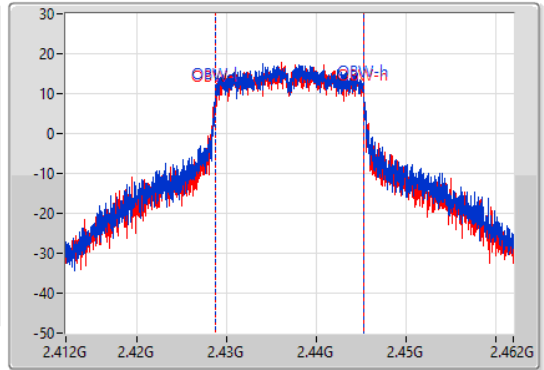
2437MHz

08/09/2022

CF
2.437GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
2.437GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.42885G	2.445175G	16.617M	2.428729G	2.445346G	500k	1
16.325M	2.428875G	2.4452G	16.667M	2.428679G	2.445346G	500k	2

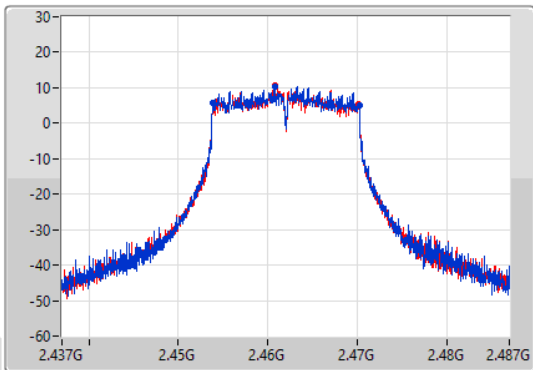
802.11g_Nss1,(6Mbps)_2TX

EBW

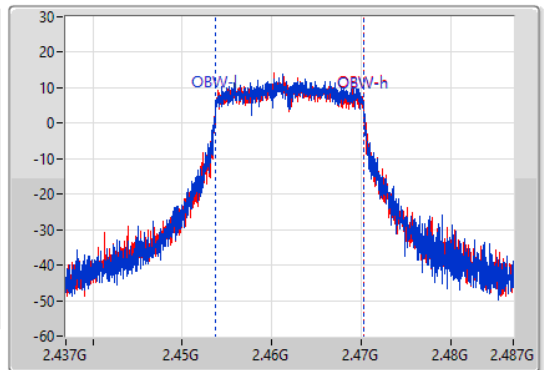
2462MHz

08/09/2022

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



CF
2.462GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



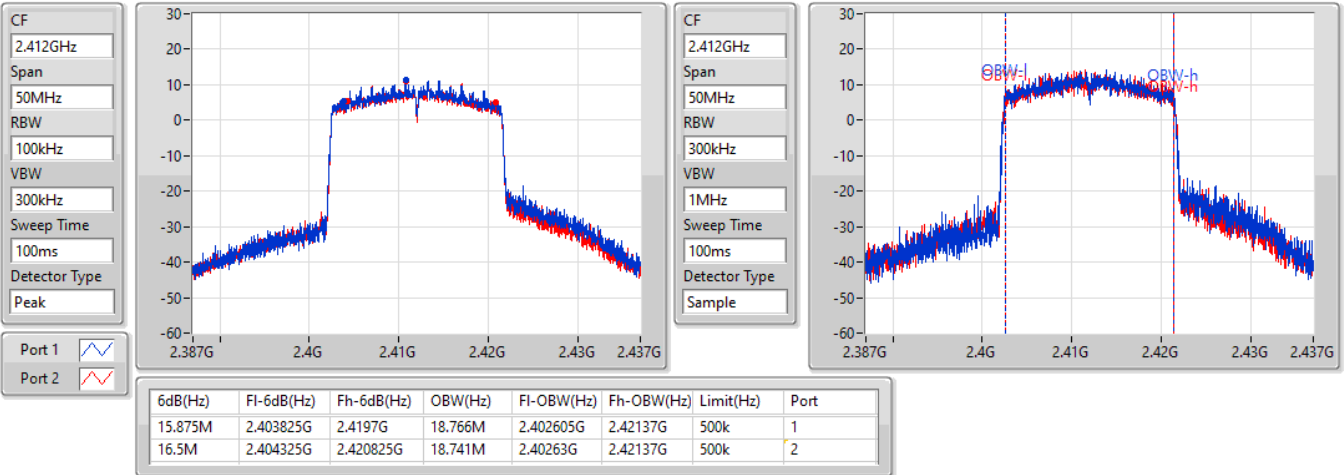
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.425M	2.453825G	2.47025G	16.492M	2.453779G	2.470271G	500k	1
16.325M	2.453875G	2.4702G	16.467M	2.453779G	2.470246G	500k	2

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

2412MHz

08/09/2022

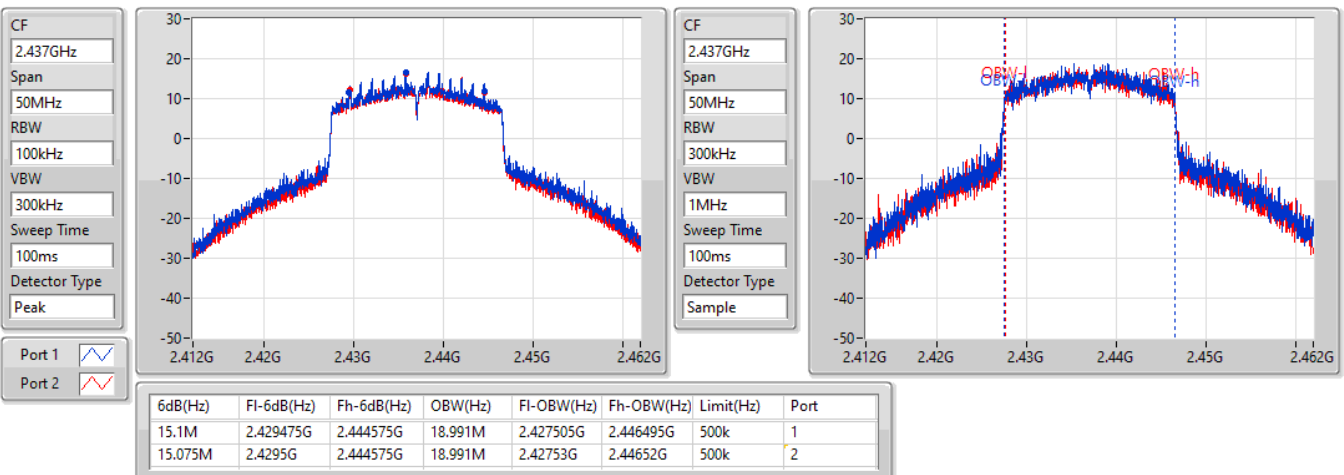


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

2437MHz

08/09/2022

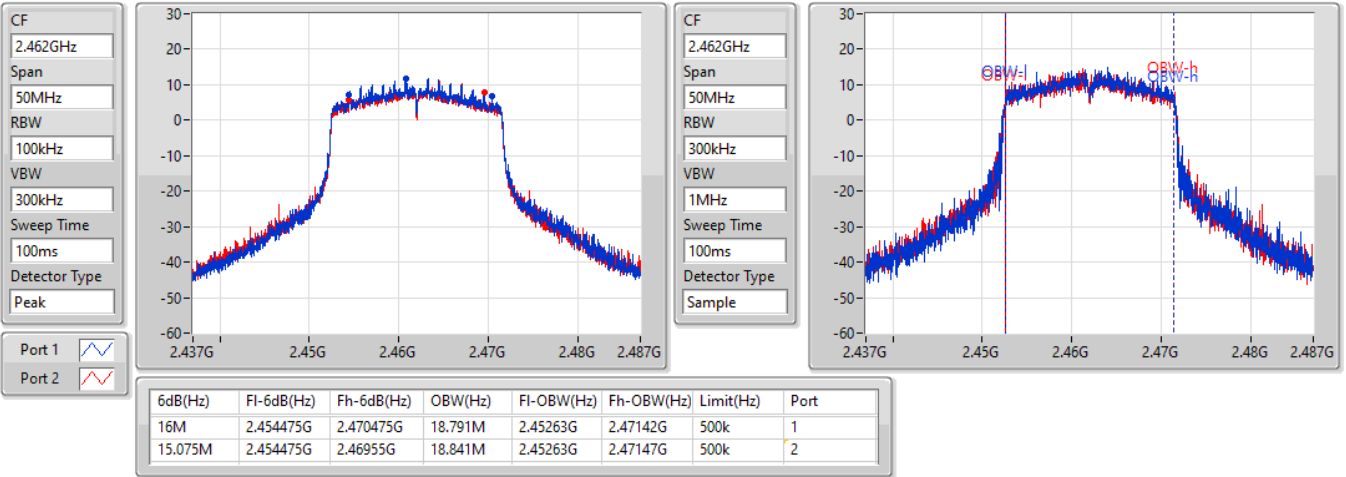


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

2462MHz

08/09/2022

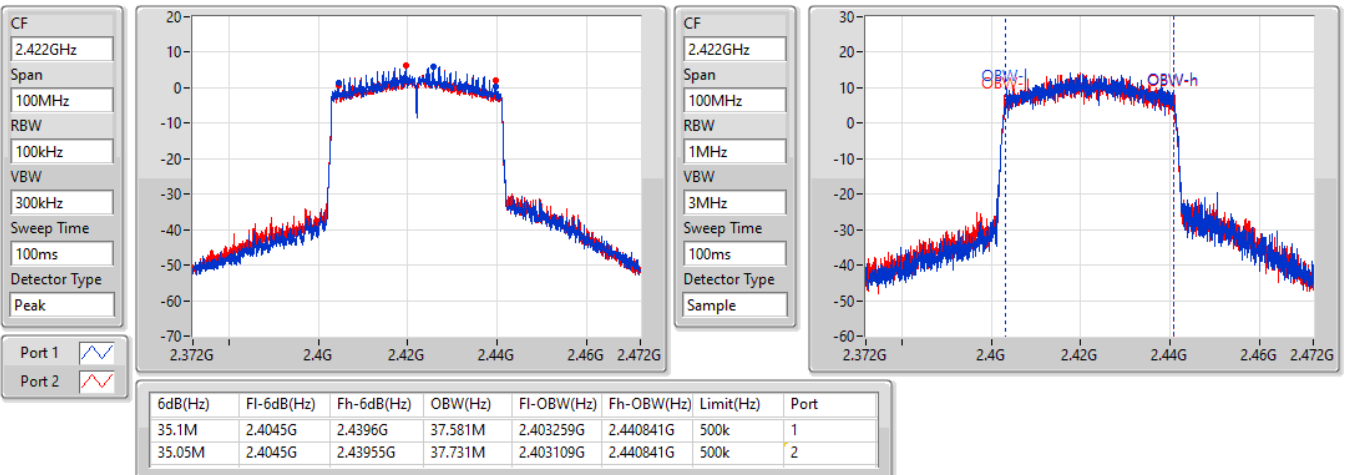


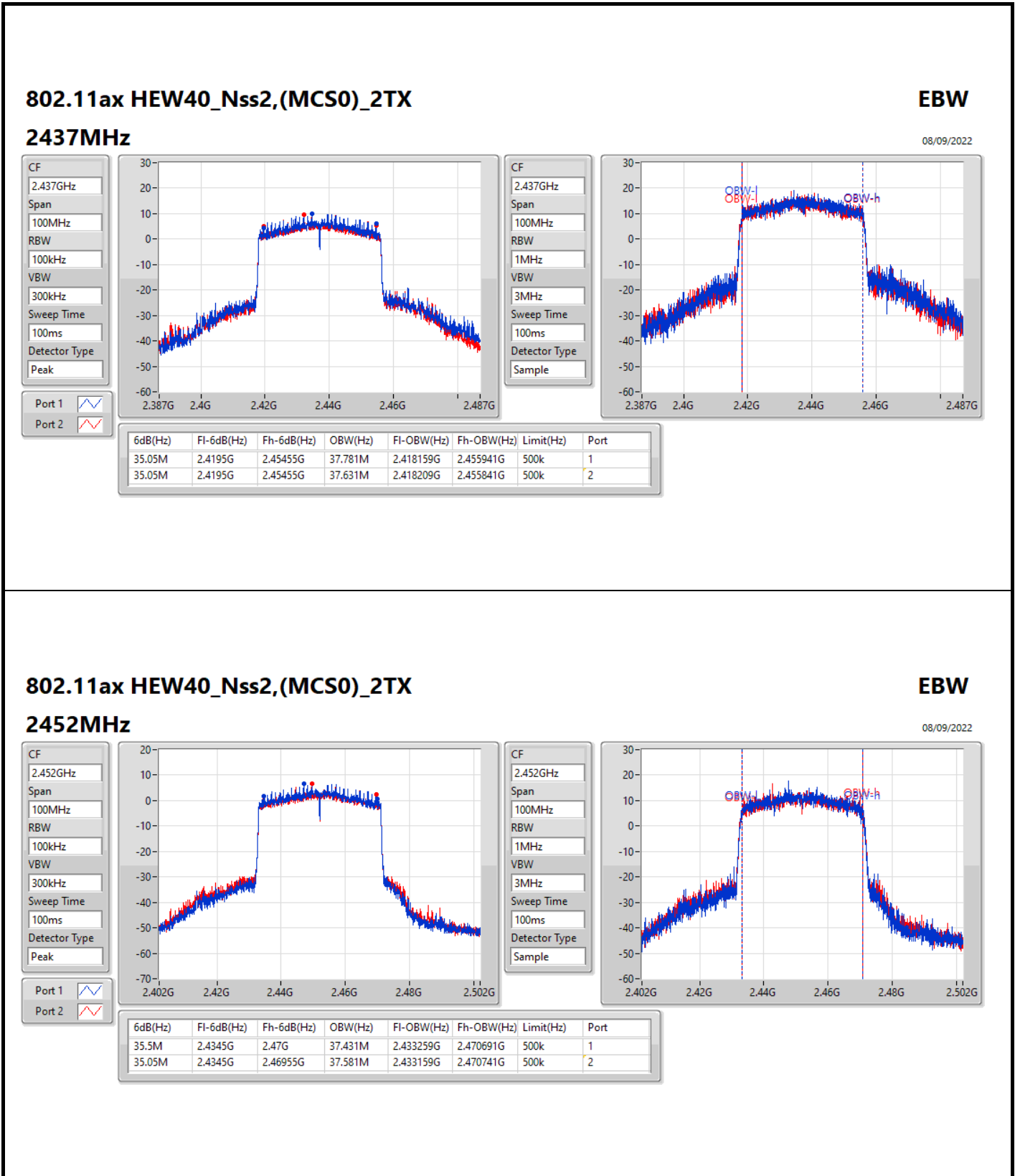
802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

2422MHz

08/09/2022







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)_2TX	18.725M	19.14M	19M1D1D	16.5M	18.741M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.85M	38.181M	38M2D1D	33.45M	37.231M

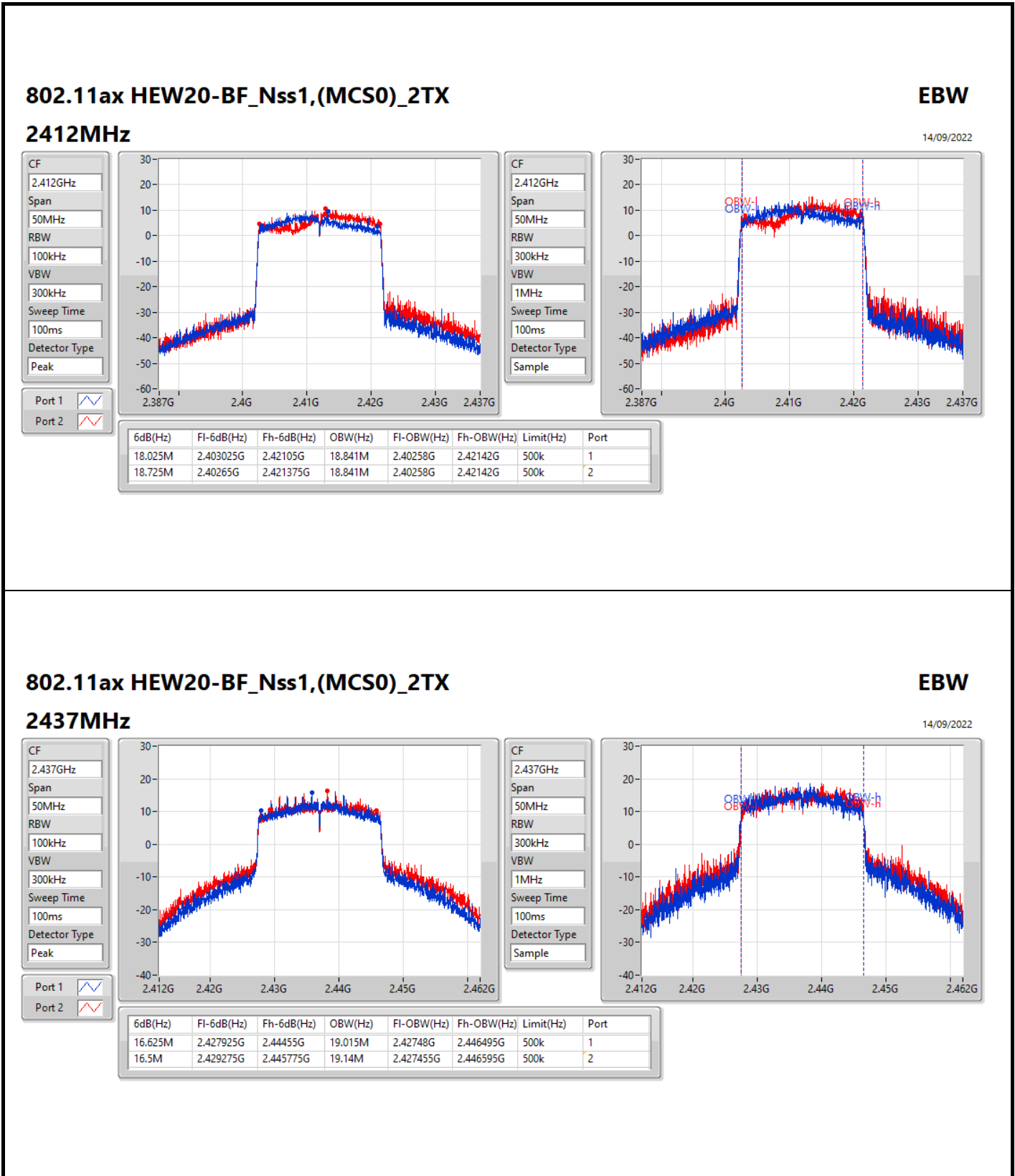
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.025M	18.841M	18.725M	18.841M
2437MHz	Pass	500k	16.625M	19.015M	16.5M	19.14M
2462MHz	Pass	500k	16.8M	18.741M	18.475M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.15M	37.731M	37.85M	38.181M
2437MHz	Pass	500k	34.7M	37.631M	37.5M	38.031M
2452MHz	Pass	500k	33.45M	37.231M	36.6M	37.781M

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

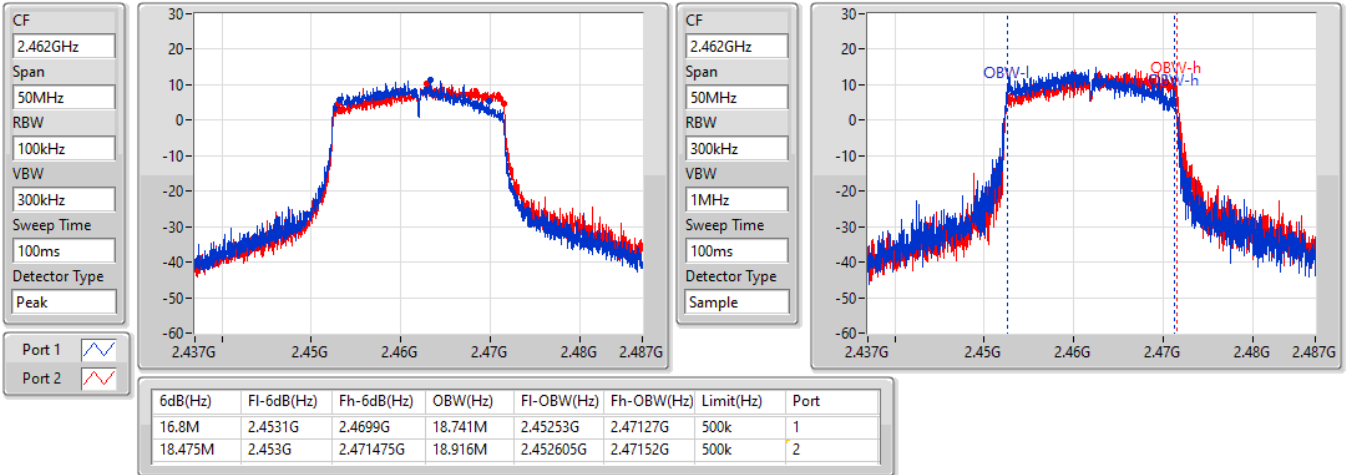


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

2462MHz

14/09/2022

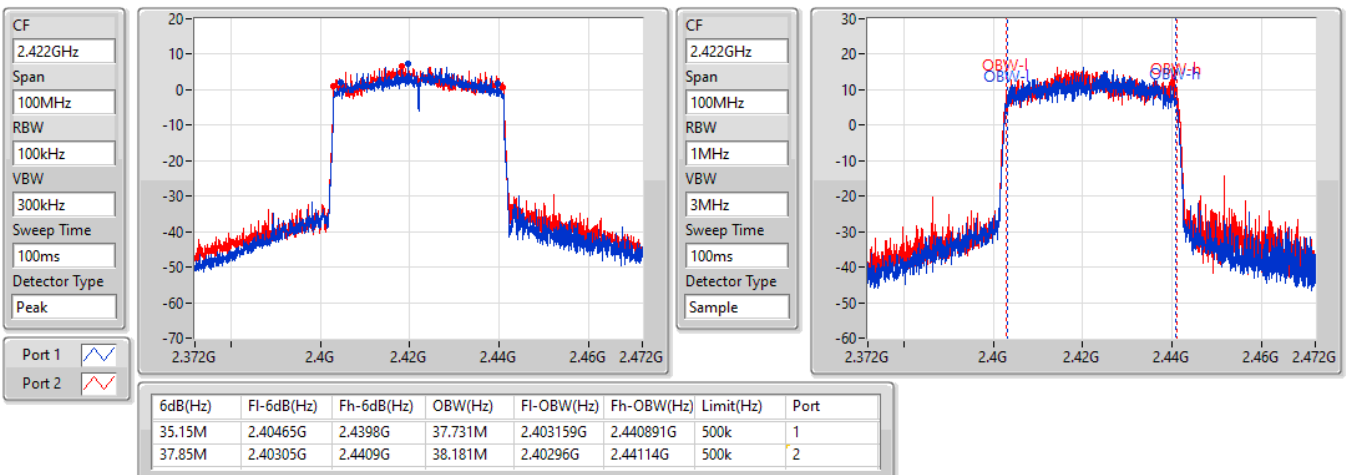


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2422MHz

14/09/2022

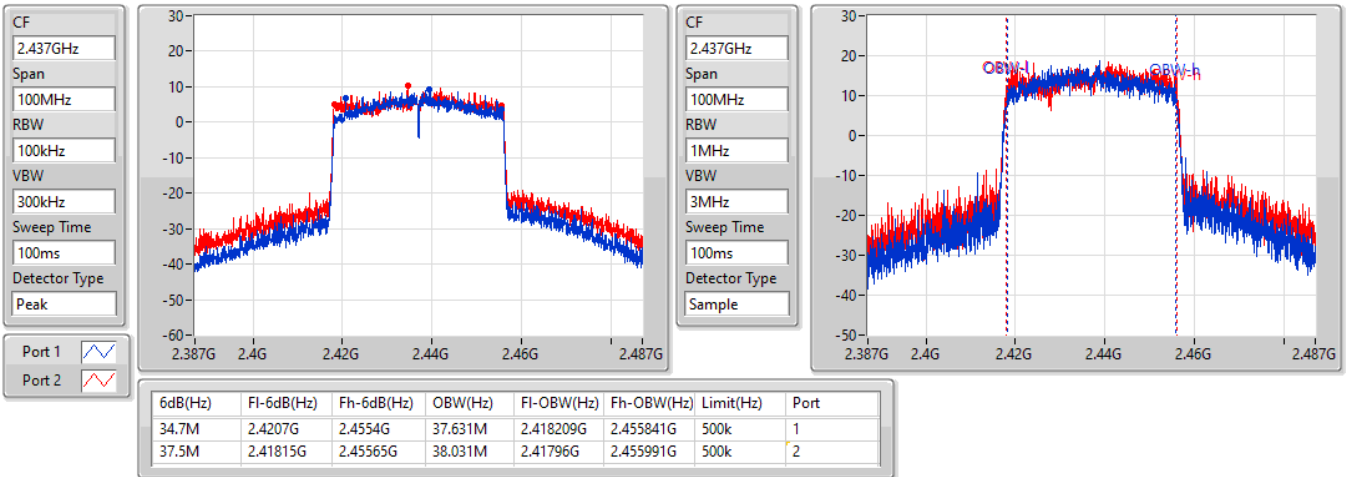


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2437MHz

14/09/2022

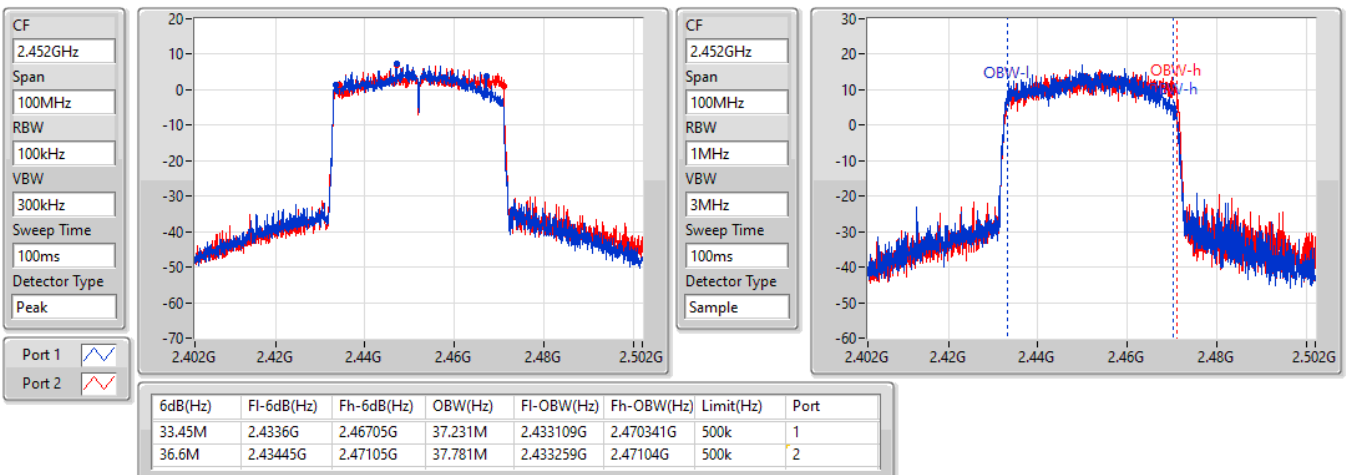


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2452MHz

14/09/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.89	0.97499
802.11g_Nss1,(6Mbps)_2TX	29.08	0.80910
802.11ax HEW20_Nss2,(MCS0)_2TX	29.67	0.92683
802.11ax HEW40_Nss2,(MCS0)_2TX	26.11	0.40832



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.59	27.01	26.69	29.86	30.00
2437MHz	Pass	2.59	27.08	26.67	29.89	30.00
2462MHz	Pass	2.59	27.09	26.45	29.79	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.59	22.01	21.69	24.86	30.00
2417MHz	Pass	2.59	23.14	22.88	26.02	30.00
2437MHz	Pass	2.59	26.33	25.80	29.08	30.00
2457MHz	Pass	2.59	22.79	22.42	25.62	30.00
2462MHz	Pass	2.59	20.99	20.85	23.93	30.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.39	22.35	21.93	25.16	30.00
2417MHz	Pass	2.39	23.92	23.60	26.77	30.00
2437MHz	Pass	2.39	26.86	26.45	29.67	30.00
2457MHz	Pass	2.39	24.03	23.66	26.86	30.00
2462MHz	Pass	2.39	22.38	22.06	25.23	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.39	19.56	19.28	22.43	30.00
2427MHz	Pass	2.39	21.15	20.89	24.03	30.00
2437MHz	Pass	2.39	23.27	22.93	26.11	30.00
2447MHz	Pass	2.39	21.16	20.73	23.96	30.00
2452MHz	Pass	2.39	20.11	19.72	22.93	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.76	0.94624
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	26.75	0.47315



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.39	21.23	21.99	24.64	30.00
2417MHz	Pass	5.39	24.42	24.87	27.66	30.00
2437MHz	Pass	5.39	26.54	26.95	29.76	30.00
2457MHz	Pass	5.39	24.60	24.76	27.69	30.00
2462MHz	Pass	5.39	22.52	22.56	25.55	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.39	21.10	21.32	24.22	30.00
2437MHz	Pass	5.39	23.51	23.96	26.75	30.00
2452MHz	Pass	5.39	20.82	20.97	23.91	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	5.74
802.11g_Nss1,(6Mbps)_2TX	2.67
802.11ax HEW20_Nss2,(MCS0)_2TX	3.65
802.11ax HEW40_Nss2,(MCS0)_2TX	-4.05

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.39	4.32	3.91	5.68	8.00
2437MHz	Pass	5.39	3.85	2.88	5.74	8.00
2462MHz	Pass	5.39	3.98	3.22	5.32	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.39	-3.69	-4.06	-1.76	8.00
2437MHz	Pass	5.39	0.88	1.12	2.67	8.00
2462MHz	Pass	5.39	-4.84	-5.00	-2.91	8.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.39	-3.92	-3.58	-2.19	8.00
2437MHz	Pass	2.39	0.77	1.61	3.65	8.00
2462MHz	Pass	2.39	-3.83	-4.56	-2.38	8.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.39	-9.27	-8.97	-7.87	8.00
2437MHz	Pass	2.39	-6.44	-5.70	-4.05	8.00
2452MHz	Pass	2.39	-9.36	-9.18	-6.64	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)_2TX

PSD

2412MHz

08/09/2022

CF
2.412GHz

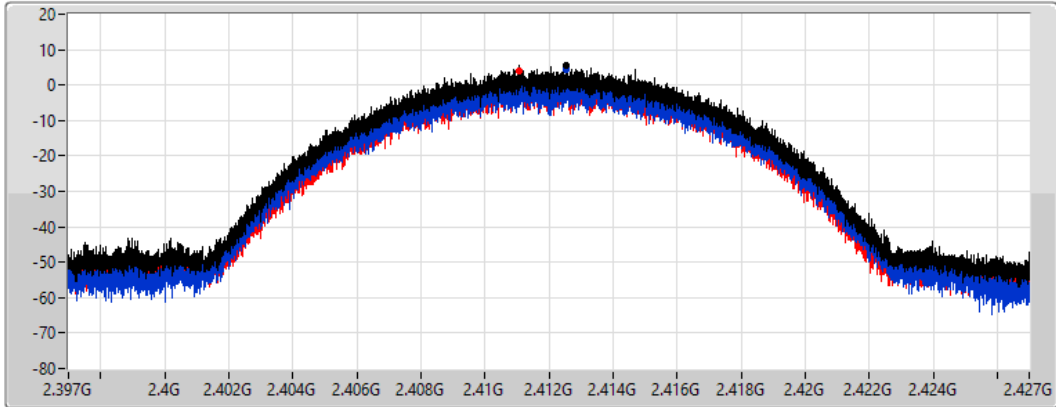
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.68	5.68	4.32	3.91

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

08/09/2022

CF
2.437GHz

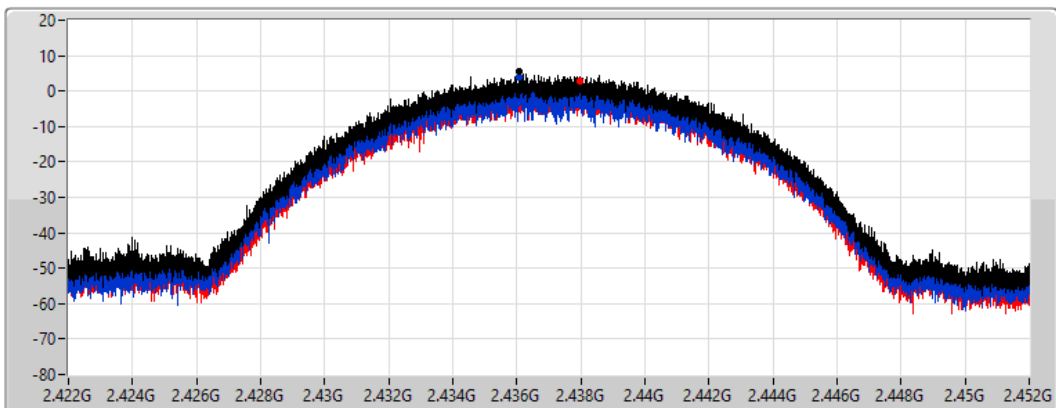
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.74	5.74	3.85	2.88

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

08/09/2022

CF
2.462GHz

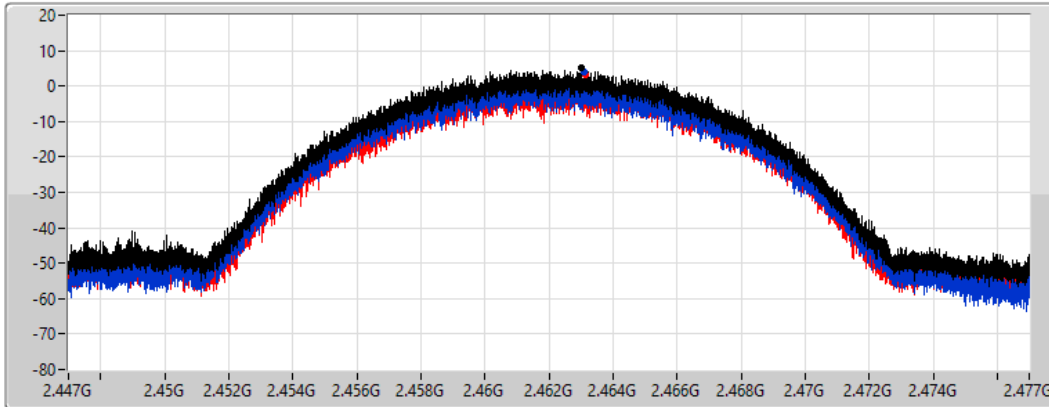
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.32	5.32	3.98	3.22

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

08/09/2022

CF
2.412GHz

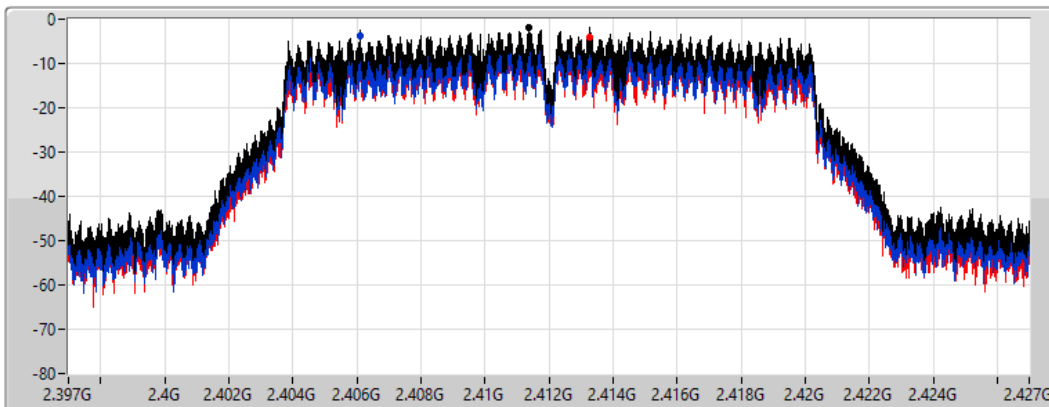
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.76	-1.76	-3.69	-4.06

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

08/09/2022

CF
2.437GHz

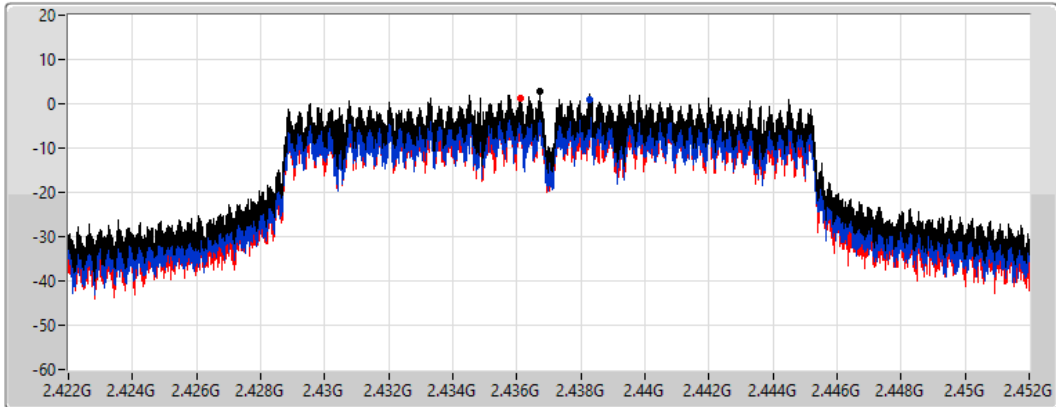
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.67	2.67	0.88	1.12

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

08/09/2022

CF
2.462GHz

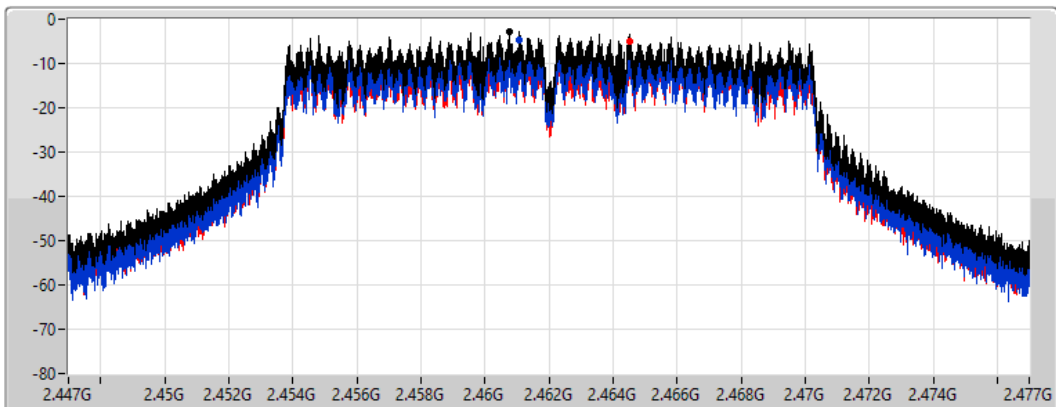
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.91	-2.91	-4.84	-5.00

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

2412MHz

08/09/2022

CF
2.412GHz

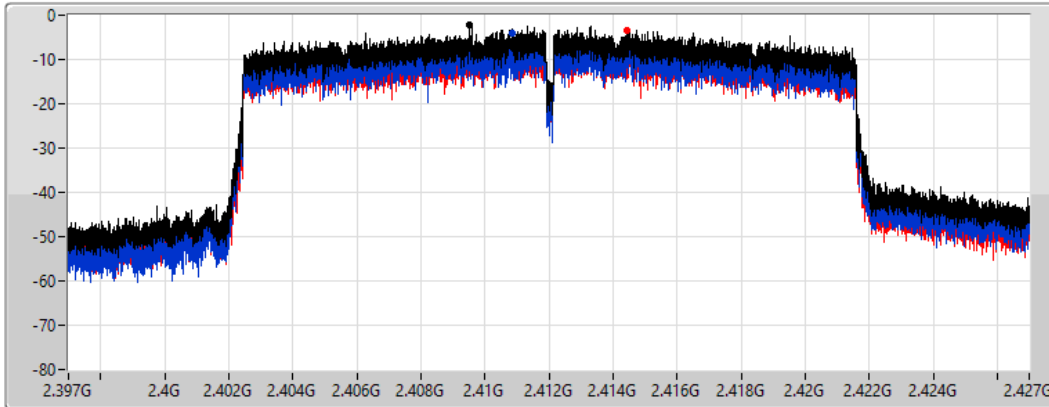
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.19	-2.19	-3.92	-3.58

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

2437MHz

08/09/2022

CF
2.437GHz

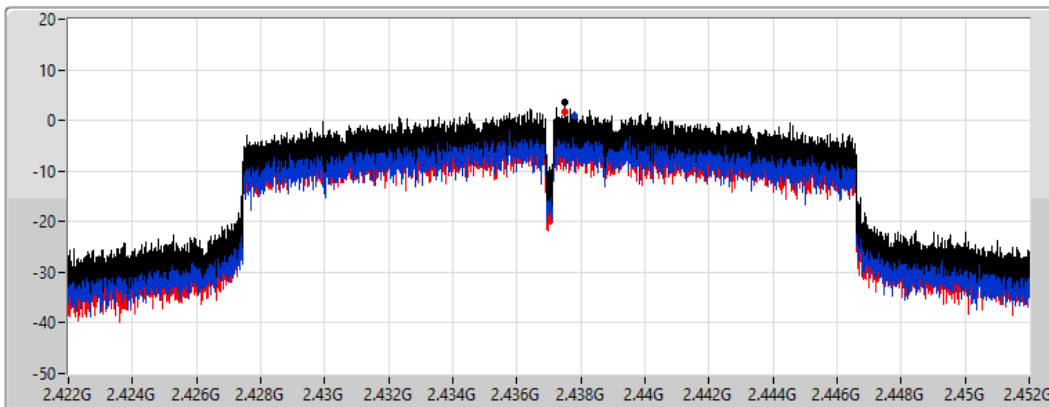
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.65	3.65	0.77	1.61

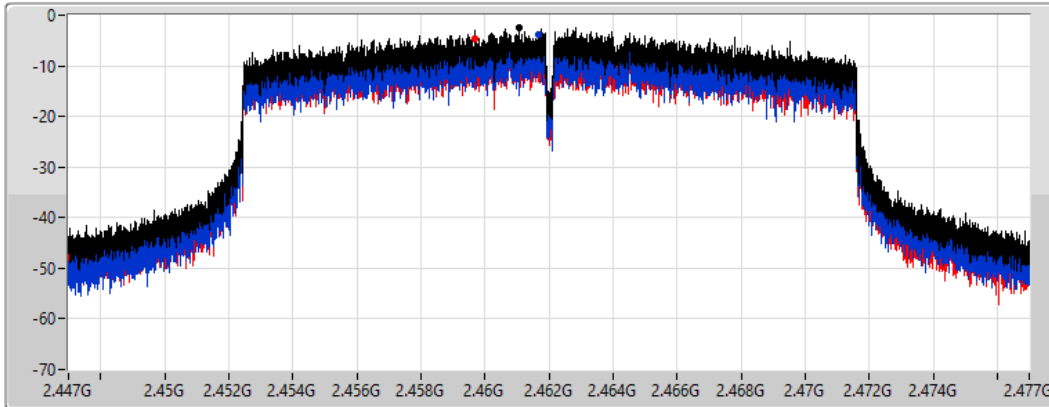
802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

2462MHz

08/09/2022

CF
2.462GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.38	-2.38	-3.83	-4.56

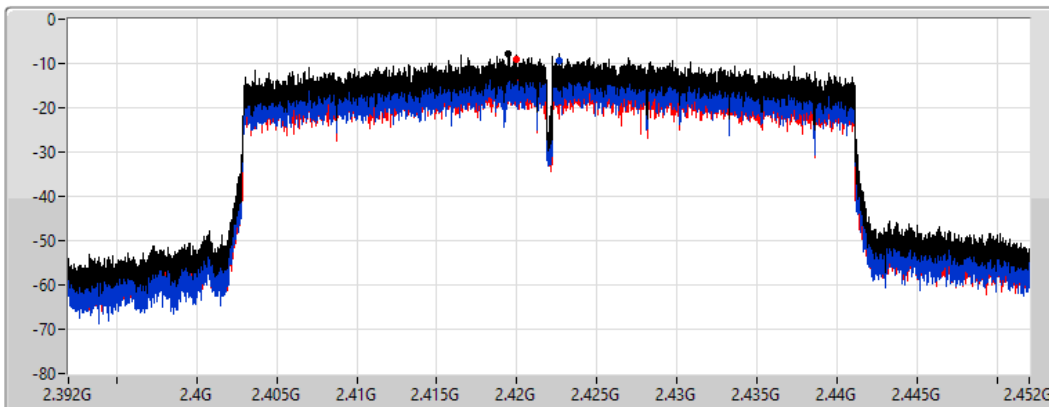
802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

2422MHz

08/09/2022

CF
2.422GHz
Span
60MHz
RBW
3kHz
VBW
10kHz
Sweep Time
8.848933ms
Detector Type
Peak



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.87	-7.87	-9.27	-8.97

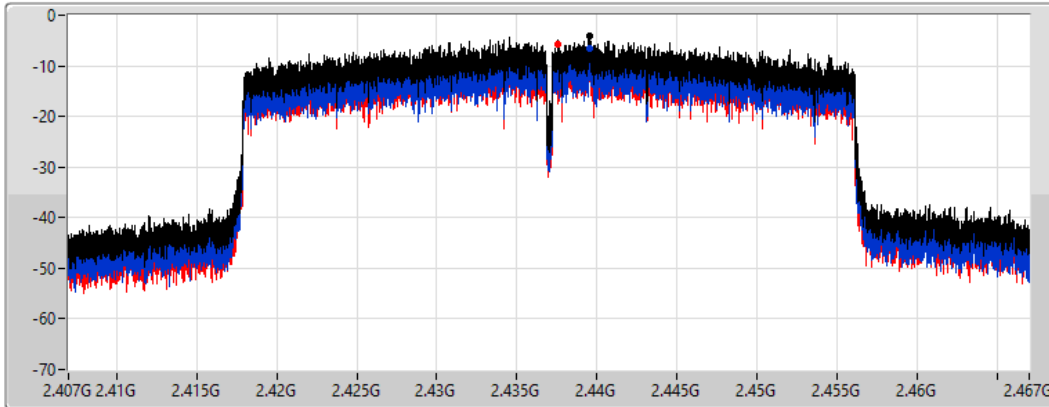
802.11ax HEW40_Nss2,(MCS0)_2TX




PSD

2437MHz

08/09/2022

CF
2.437GHz
Span
60MHz
RBW
3kHz
VBW
10kHz
Sweep Time
8.848933ms
Detector Type
Peak



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.05	-4.05	-6.44	-5.70

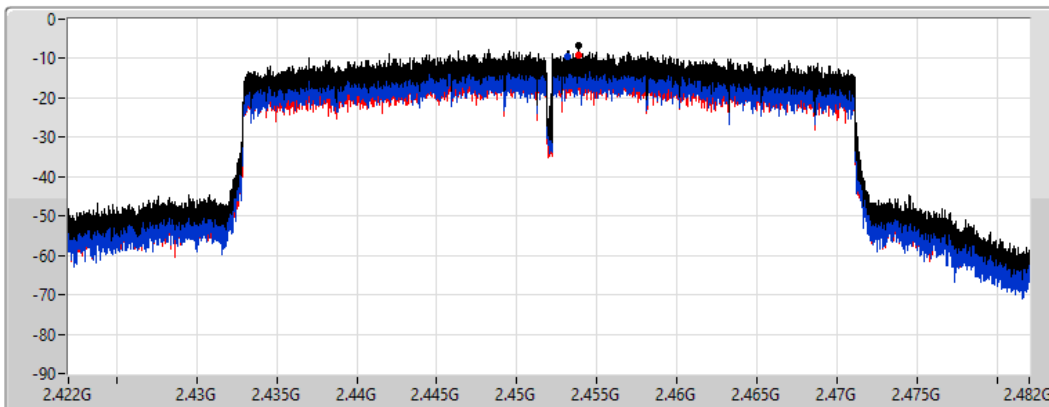
802.11ax HEW40_Nss2,(MCS0)_2TX




PSD

2452MHz

08/09/2022

CF
2.452GHz
Span
60MHz
RBW
3kHz
VBW
10kHz
Sweep Time
8.848933ms
Detector Type
Peak



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.64	-6.64	-9.36	-9.18



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	1.43
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-3.58

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.39	-3.44	-3.54	-1.42	8.00
2437MHz	Pass	5.39	-0.41	0.19	1.43	8.00
2462MHz	Pass	5.39	-3.03	-3.98	-1.75	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.39	-8.14	-8.03	-5.70	8.00
2437MHz	Pass	5.39	-4.78	-5.05	-3.58	8.00
2452MHz	Pass	5.39	-7.25	-7.18	-5.82	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)_2TX

PSD

2412MHz

14/09/2022

CF
2.412GHz

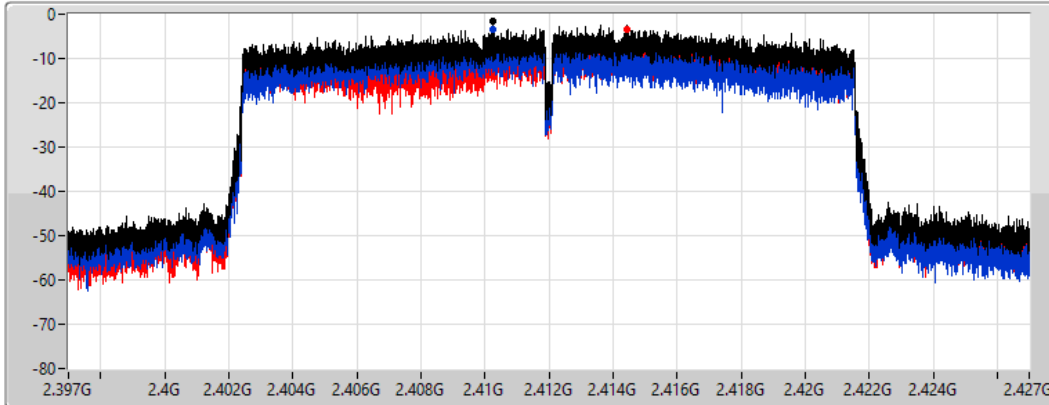
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.42	-1.42	-3.44	-3.54

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

14/09/2022

CF
2.437GHz

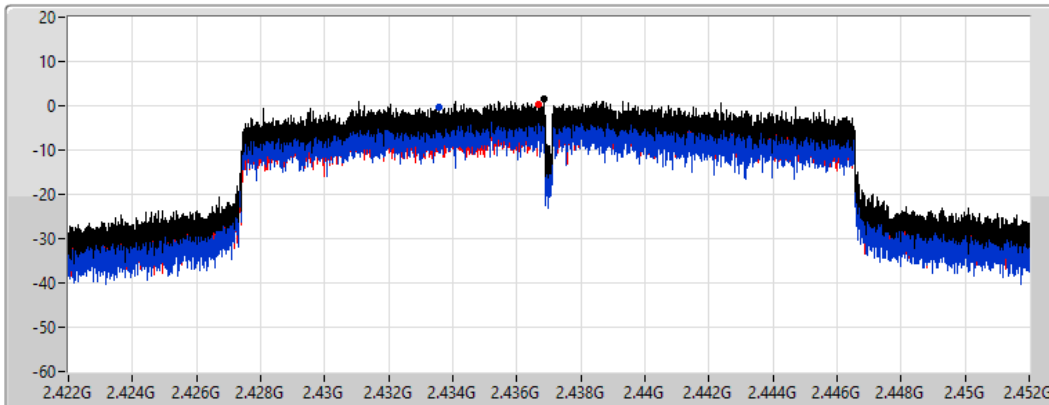
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.43	1.43	-0.41	0.19

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

14/09/2022

CF
2.462GHz

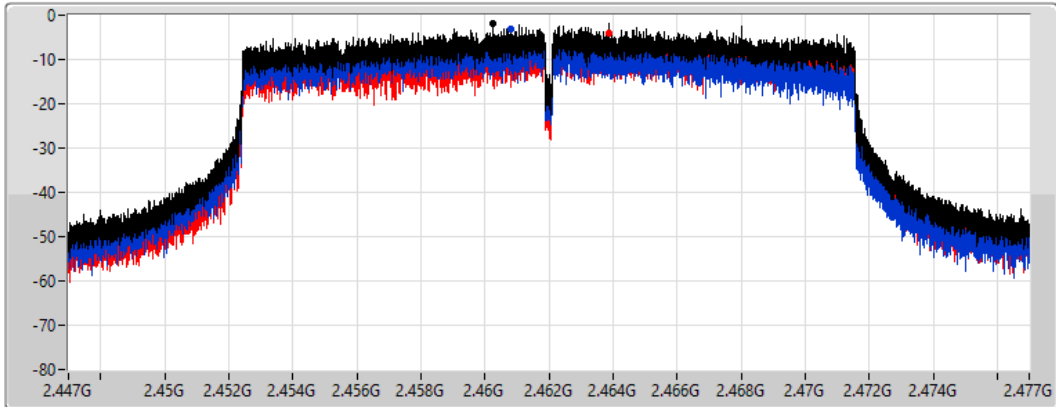
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.75	-1.75	-3.03	-3.98

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

14/09/2022

CF
2.422GHz

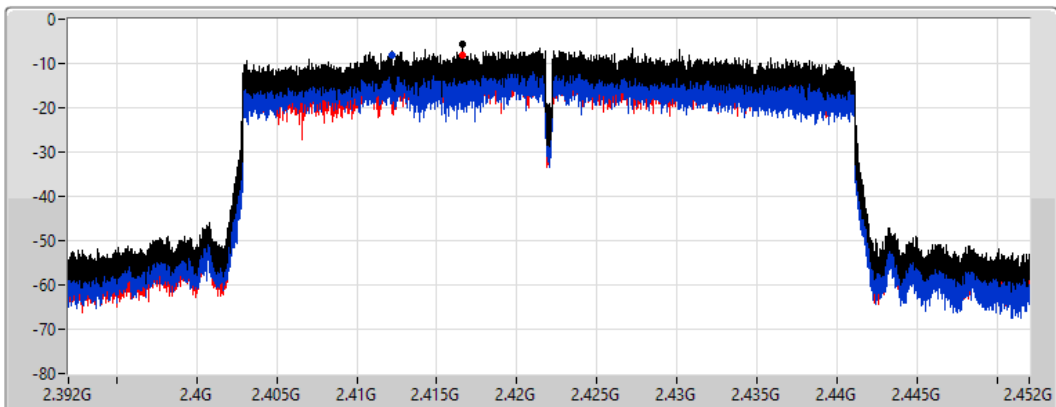
Span
60MHz


RBW
3kHz


VBW
10kHz


Sweep Time
8.848933ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.70	-5.70	-8.14	-8.03

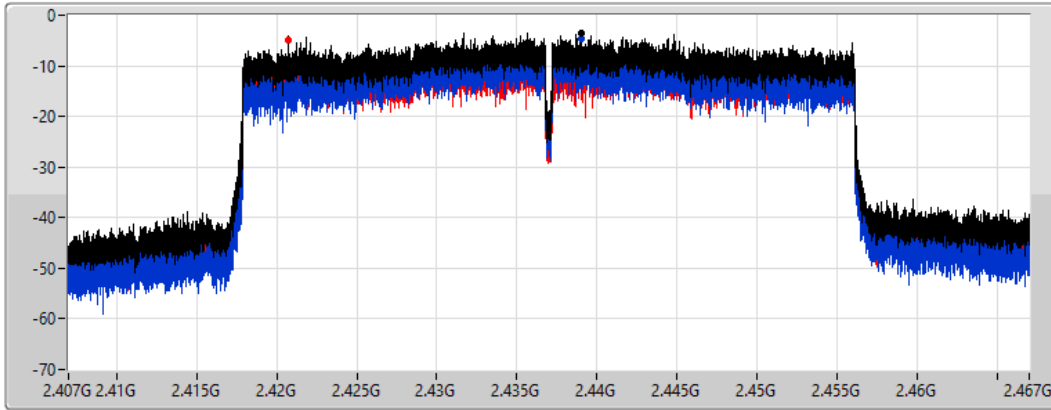
802.11ax HEW40-BF_Nss1,(MCS0)_2TX




PSD

2437MHz

14/09/2022

CF
2.437GHz
Span
60MHz
RBW
3kHz
VBW
10kHz
Sweep Time
8.848933ms
Detector Type
Peak



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.58	-3.58	-4.78	-5.05

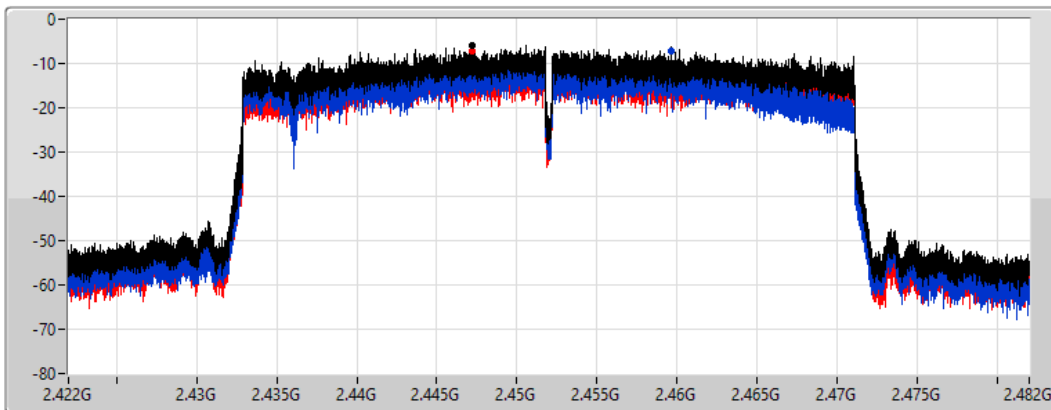
802.11ax HEW40-BF_Nss1,(MCS0)_2TX




PSD

2452MHz

14/09/2022

CF
2.452GHz
Span
60MHz
RBW
3kHz
VBW
10kHz
Sweep Time
8.848933ms
Detector Type
Peak



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.82	-5.82	-7.25	-7.18



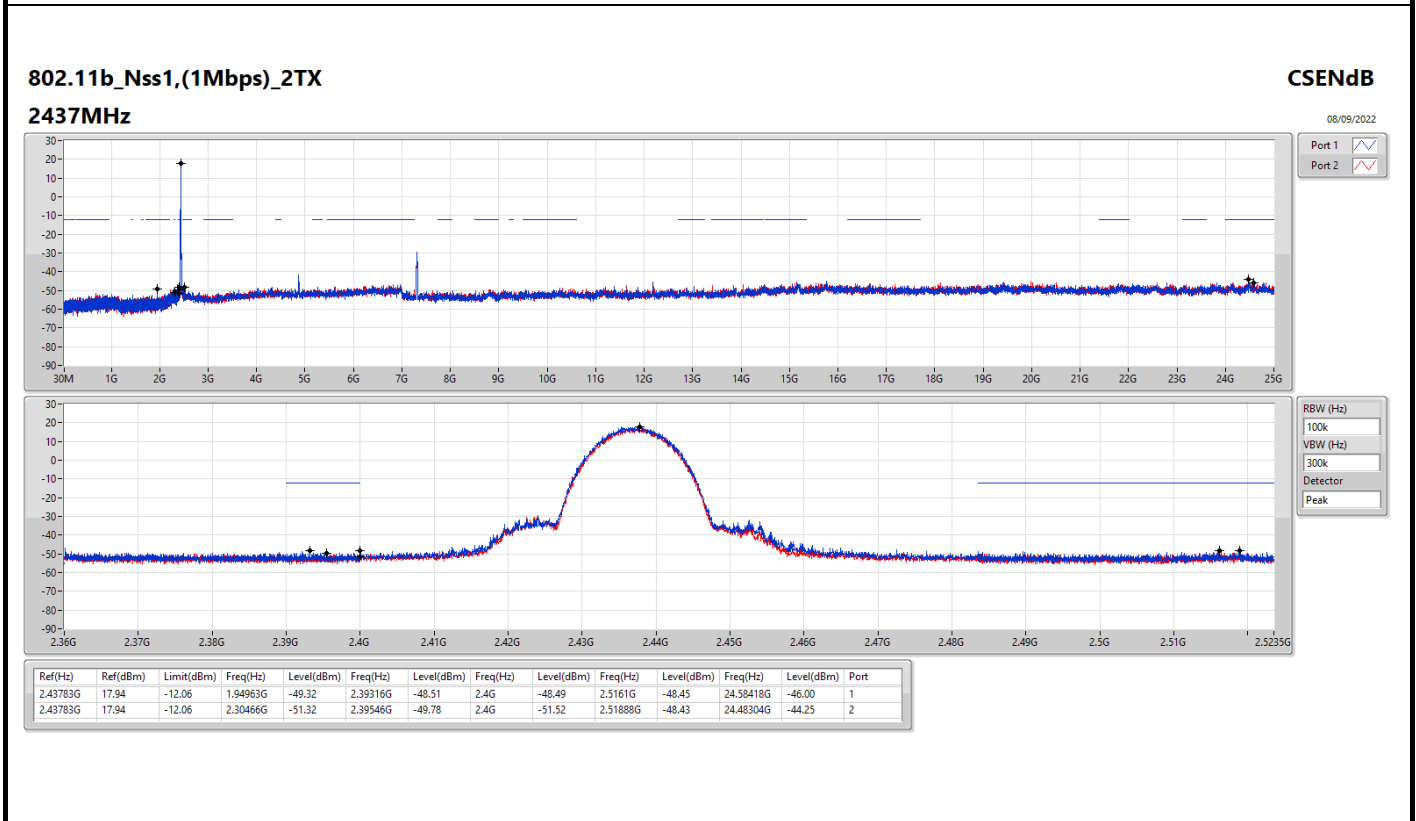
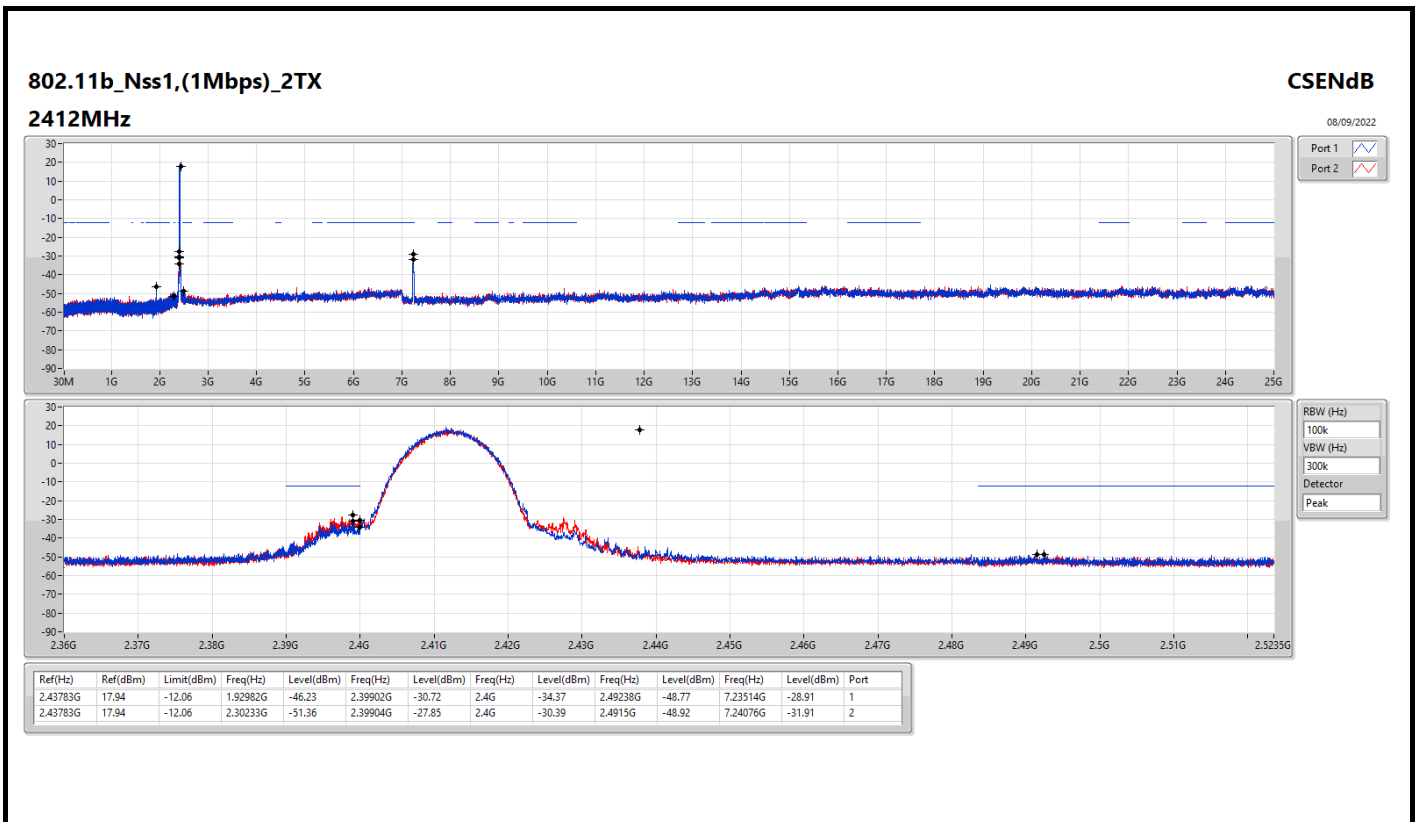
Summary

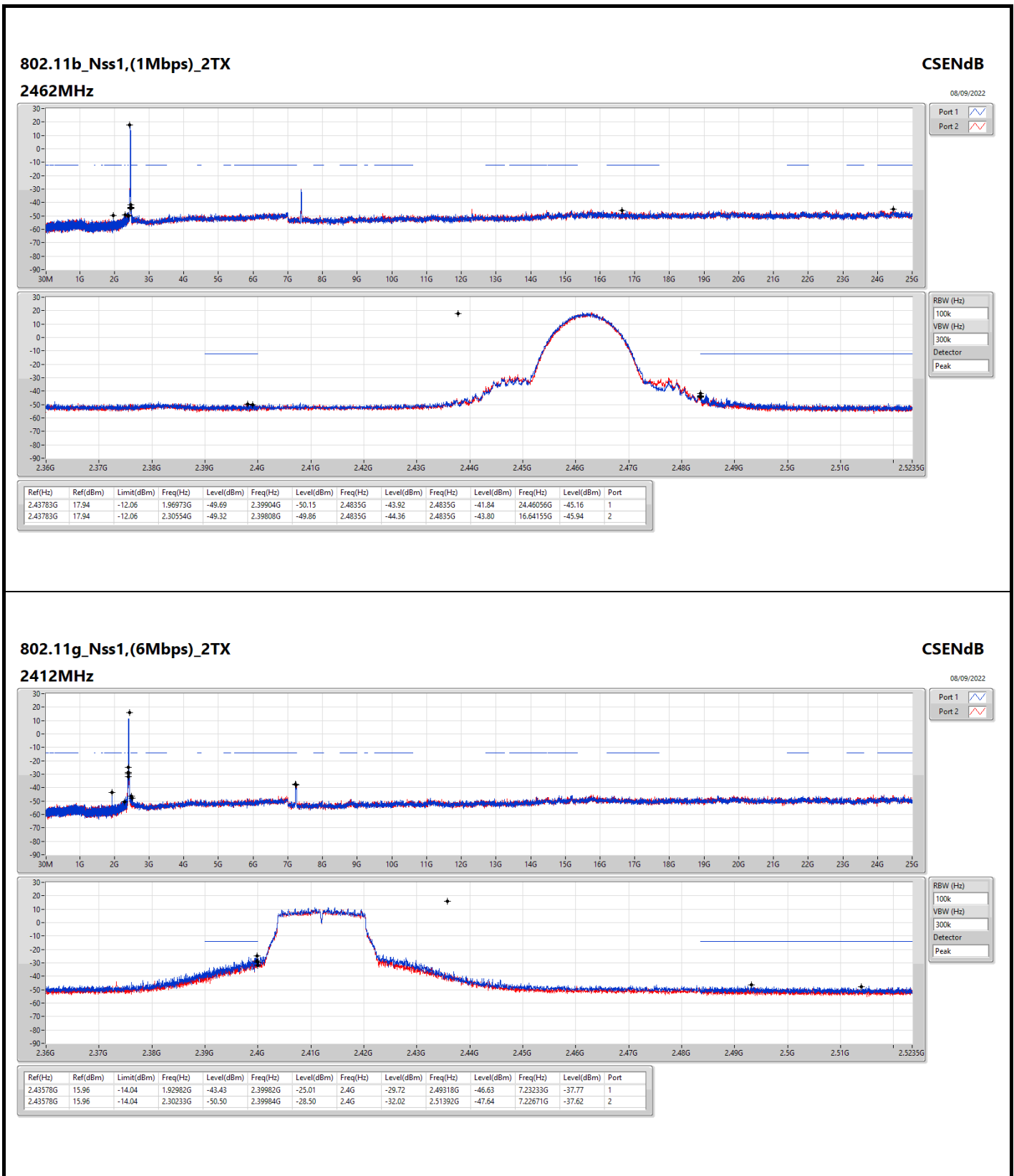
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43783G	17.94	-12.06	2.30233G	-51.36	2.39904G	-27.85	2.4G	-30.39	2.4915G	-48.92	7.24076G	-31.91	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43578G	15.96	-14.04	1.92982G	-43.43	2.39982G	-25.01	2.4G	-29.72	2.49318G	-46.63	7.23233G	-37.77	1
802.11ax HEW20_Nss2,(MCS0)_2TX	Pass	2.43828G	16.55	-13.45	1.92982G	-43.64	2.3988G	-27.56	2.4G	-33.65	2.51434G	-48.91	7.23514G	-36.01	1
802.11ax HEW40_Nss2,(MCS0)_2TX	Pass	2.43453G	10.23	-19.77	1.94959G	-45.11	2.3988G	-28.65	2.4835G	-34.61	2.48454G	-32.42	24.55968G	-45.08	1



Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43783G	17.94	-12.06	1.92982G	-46.23	2.39902G	-30.72	2.4G	-34.37	2.49238G	-48.77	7.23514G	-28.91	1
2412MHz	Pass	2.43783G	17.94	-12.06	2.30233G	-51.36	2.39904G	-27.85	2.4G	-30.39	2.4915G	-48.92	7.24076G	-31.91	2
2437MHz	Pass	2.43783G	17.94	-12.06	1.94963G	-49.32	2.39316G	-48.51	2.4G	-48.49	2.5161G	-48.45	24.58418G	-46.00	1
2437MHz	Pass	2.43783G	17.94	-12.06	2.30466G	-51.32	2.39546G	-49.78	2.4G	-51.52	2.51888G	-48.43	24.48304G	-44.25	2
2462MHz	Pass	2.43783G	17.94	-12.06	1.96973G	-49.69	2.39904G	-50.15	2.4835G	-43.92	2.4835G	-41.84	24.46056G	-45.16	1
2462MHz	Pass	2.43783G	17.94	-12.06	2.30554G	-49.32	2.39808G	-49.86	2.4835G	-44.36	2.4835G	-43.80	16.64155G	-45.94	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43578G	15.96	-14.04	1.92982G	-43.43	2.39982G	-25.01	2.4G	-29.72	2.49318G	-46.63	7.23233G	-37.77	1
2412MHz	Pass	2.43578G	15.96	-14.04	2.30233G	-50.50	2.39984G	-28.50	2.4G	-32.02	2.51392G	-47.64	7.22671G	-37.62	2
2437MHz	Pass	2.43578G	15.96	-14.04	2.30525G	-46.07	2.3992G	-37.30	2.4G	-40.09	2.48516G	-38.18	21.92634G	-45.29	1
2437MHz	Pass	2.43578G	15.96	-14.04	2.30787G	-46.74	2.39858G	-37.89	2.4G	-40.51	2.48422G	-41.63	15.20025G	-45.18	2
2462MHz	Pass	2.43578G	15.96	-14.04	1.96973G	-46.36	2.39446G	-47.37	2.4835G	-43.53	2.48354G	-38.84	24.10656G	-45.74	1
2462MHz	Pass	2.43578G	15.96	-14.04	2.30612G	-50.60	2.39406G	-48.07	2.4835G	-43.38	2.48454G	-36.14	15.18901G	-45.75	2
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43828G	16.55	-13.45	1.92982G	-43.64	2.3988G	-27.56	2.4G	-33.65	2.51434G	-48.91	7.23514G	-36.01	1
2412MHz	Pass	2.43828G	16.55	-13.45	2.17855G	-52.57	2.3986G	-29.77	2.4G	-31.12	2.49442G	-49.78	7.23233G	-36.94	2
2437MHz	Pass	2.43828G	16.55	-13.45	1.94963G	-47.38	2.3987G	-36.47	2.4G	-40.12	2.4865G	-36.34	15.18058G	-45.94	1
2437MHz	Pass	2.43828G	16.55	-13.45	2.30146G	-51.41	2.3999G	-35.52	2.4G	-36.62	2.48532G	-36.78	24.46899G	-45.08	2
2462MHz	Pass	2.43828G	16.55	-13.45	1.96973G	-47.65	2.39098G	-49.92	2.4835G	-40.21	2.48384G	-36.69	6.90642G	-45.59	1
2462MHz	Pass	2.43828G	16.55	-13.45	2.30583G	-51.09	2.39598G	-50.67	2.4835G	-40.13	2.48378G	-37.48	16.50669G	-45.50	2
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43453G	10.23	-19.77	1.93786G	-43.46	2.39828G	-36.64	2.4G	-41.05	2.50218G	-49.49	7.24992G	-44.93	1
2422MHz	Pass	2.43453G	10.23	-19.77	2.11791G	-50.98	2.39828G	-34.36	2.4G	-38.18	2.49994G	-49.24	24.99439G	-45.26	2
2437MHz	Pass	2.43453G	10.23	-19.77	1.94959G	-45.11	2.3988G	-28.65	2.4835G	-34.61	2.48454G	-32.42	24.55968G	-45.08	1
2437MHz	Pass	2.43453G	10.23	-19.77	2.30912G	-51.82	2.3988G	-31.41	2.4G	-34.91	2.48454G	-34.54	15.15038G	-45.88	2
2452MHz	Pass	2.43453G	10.23	-19.77	1.96162G	-45.29	2.39768G	-48.83	2.4835G	-50.54	2.4845G	-44.60	15.19525G	-44.94	1
2452MHz	Pass	2.43453G	10.23	-19.77	2.30454G	-52.33	2.39604G	-48.42	2.4835G	-45.35	2.48578G	-41.21	15.18964G	-46.09	2



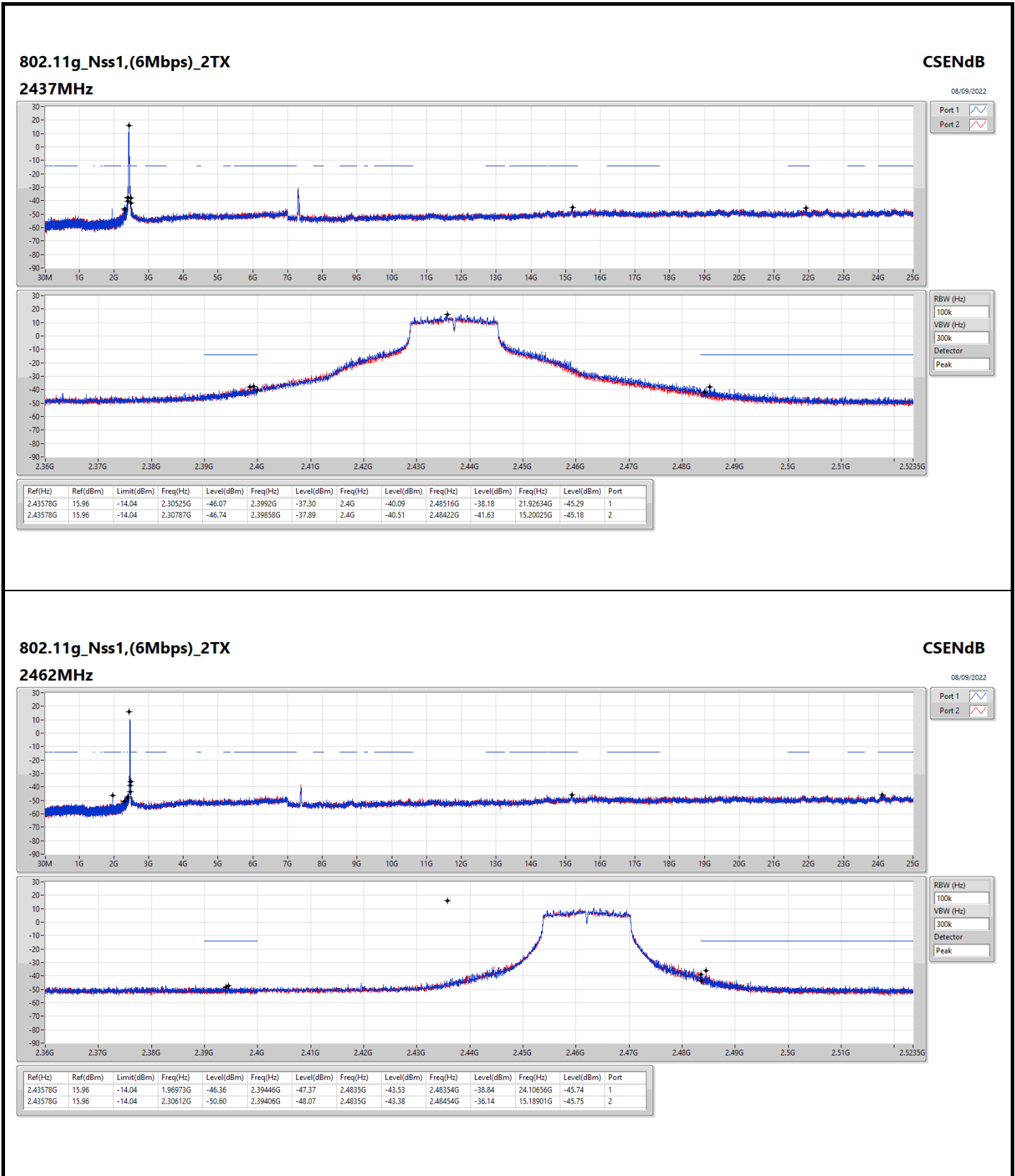


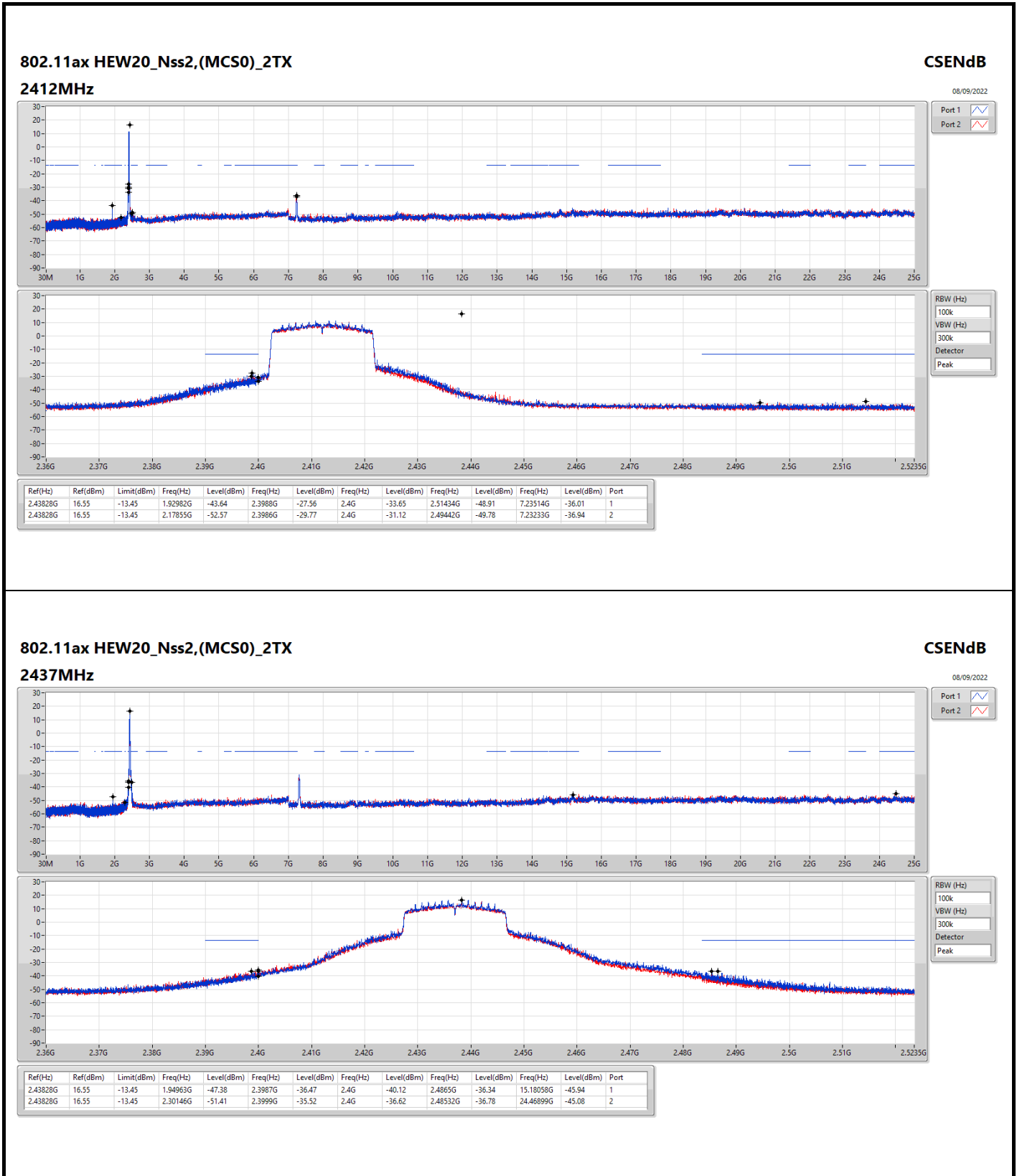
802.11g_Nss1,(6Mbps)_2TX

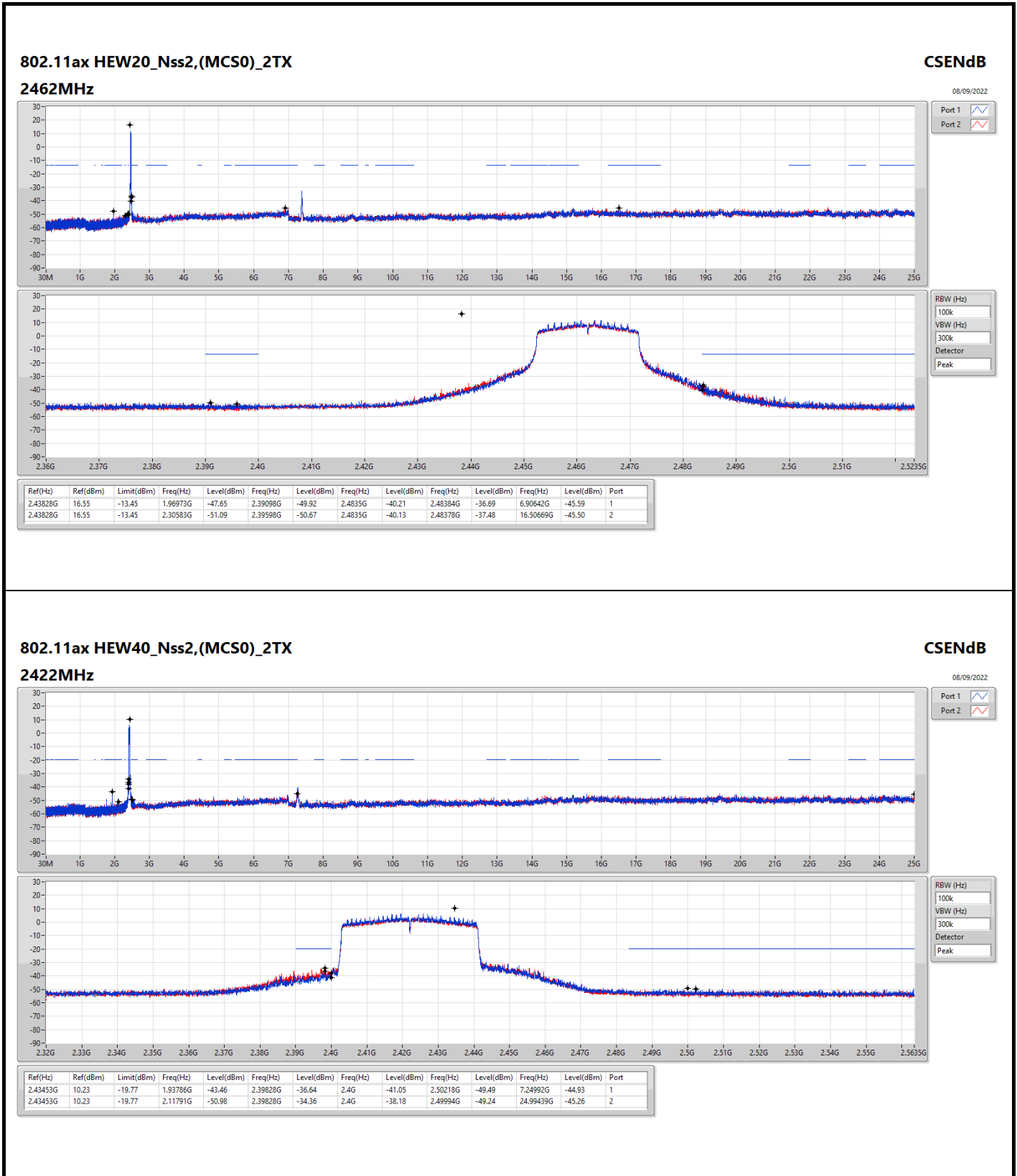
2412MHz

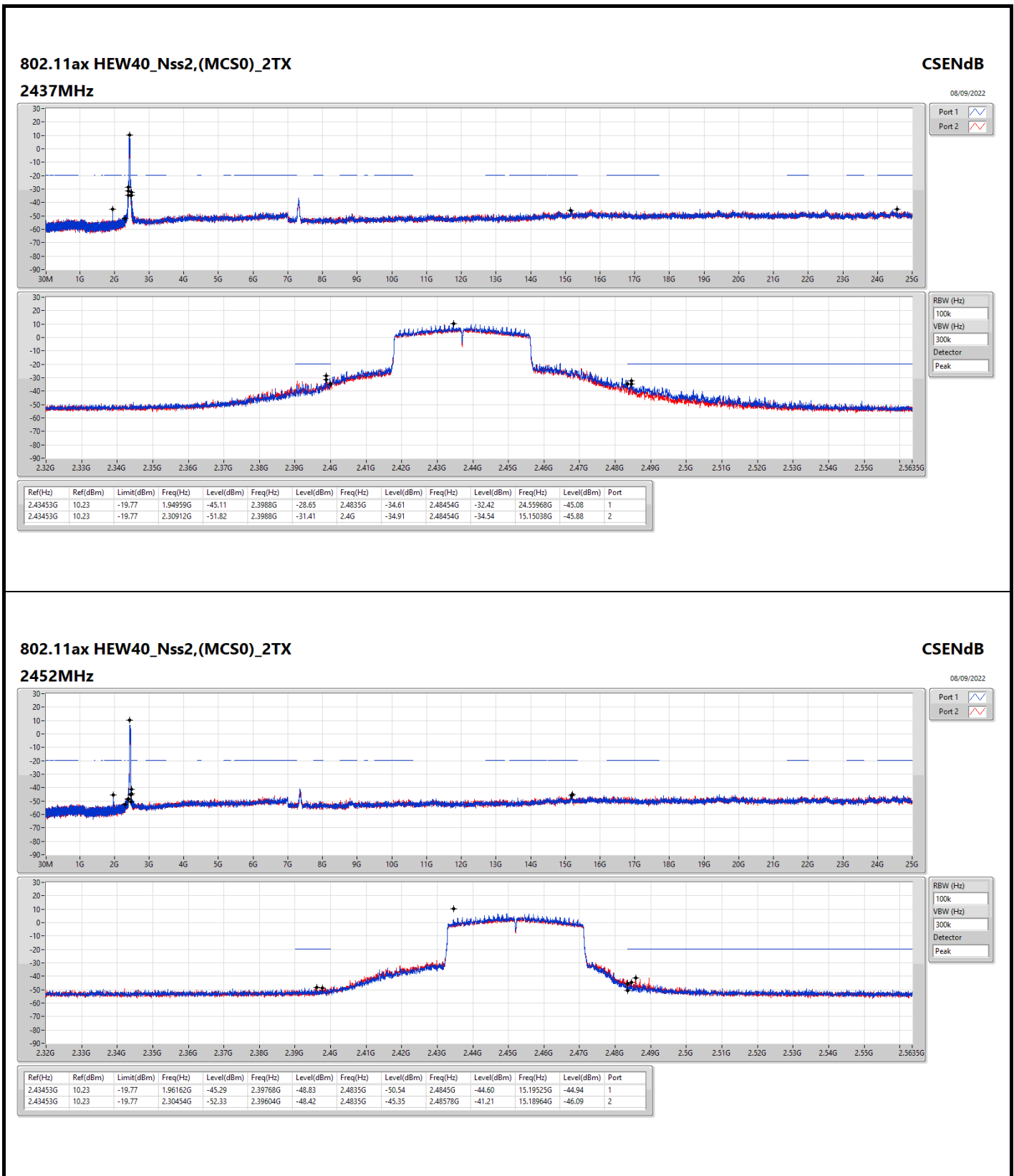
CSENdB

08/09/2022











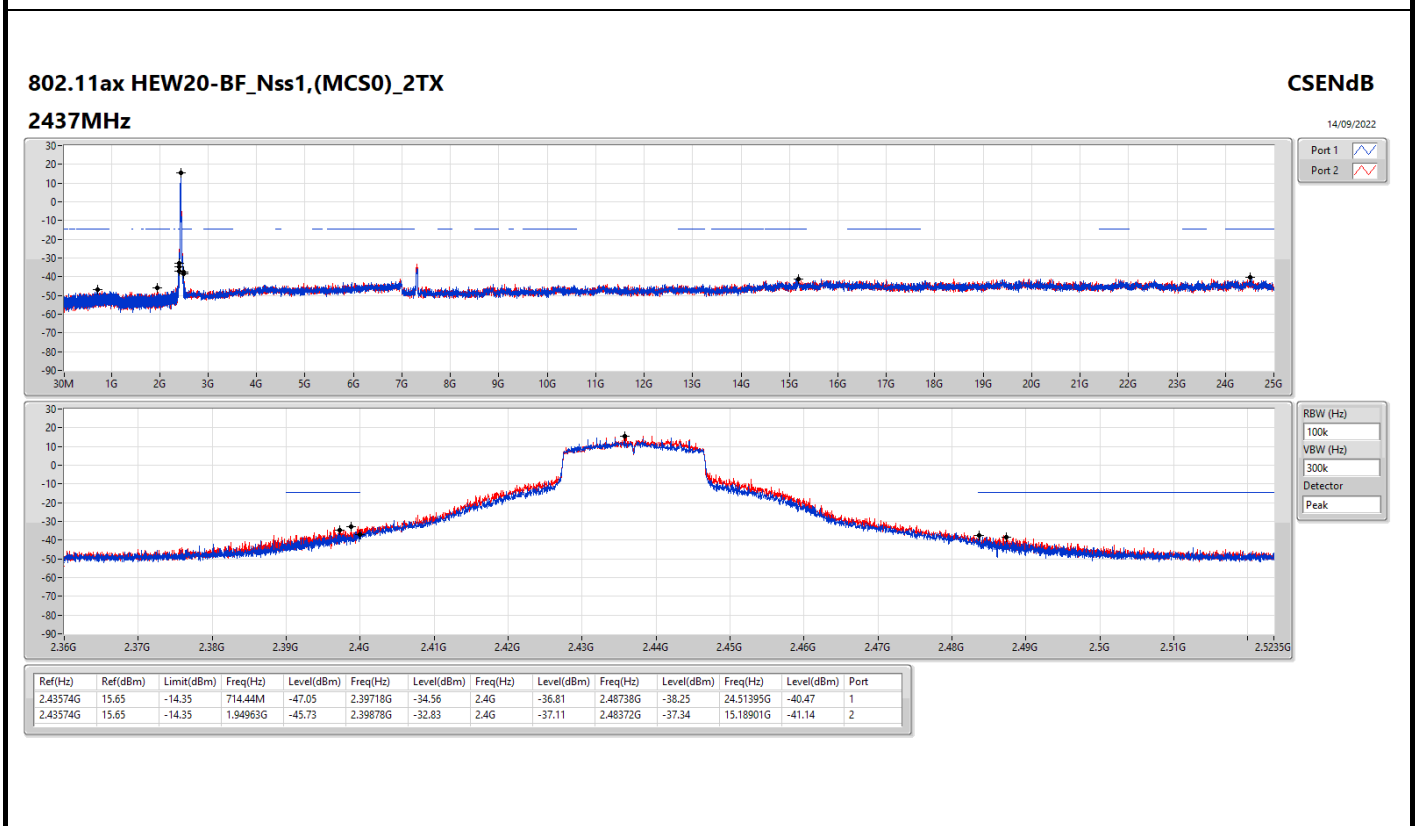
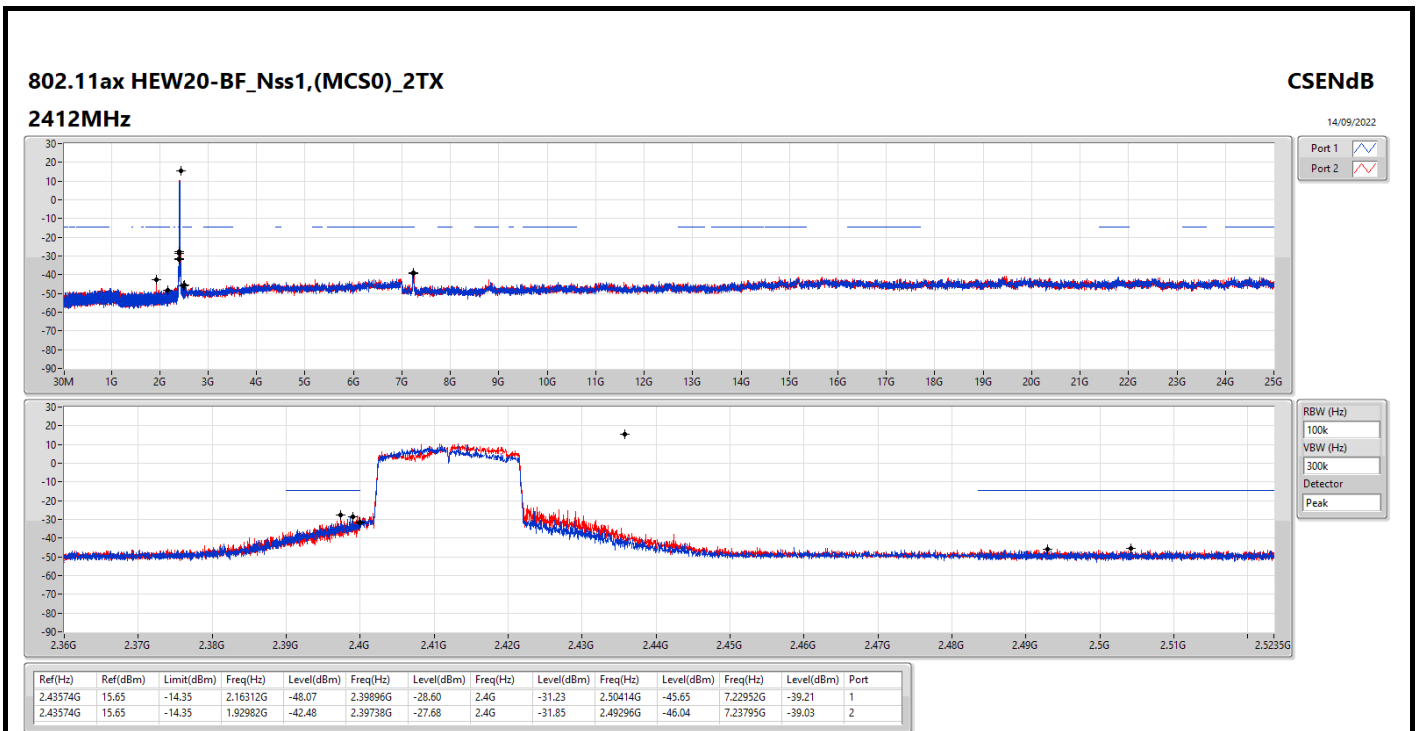
Summary

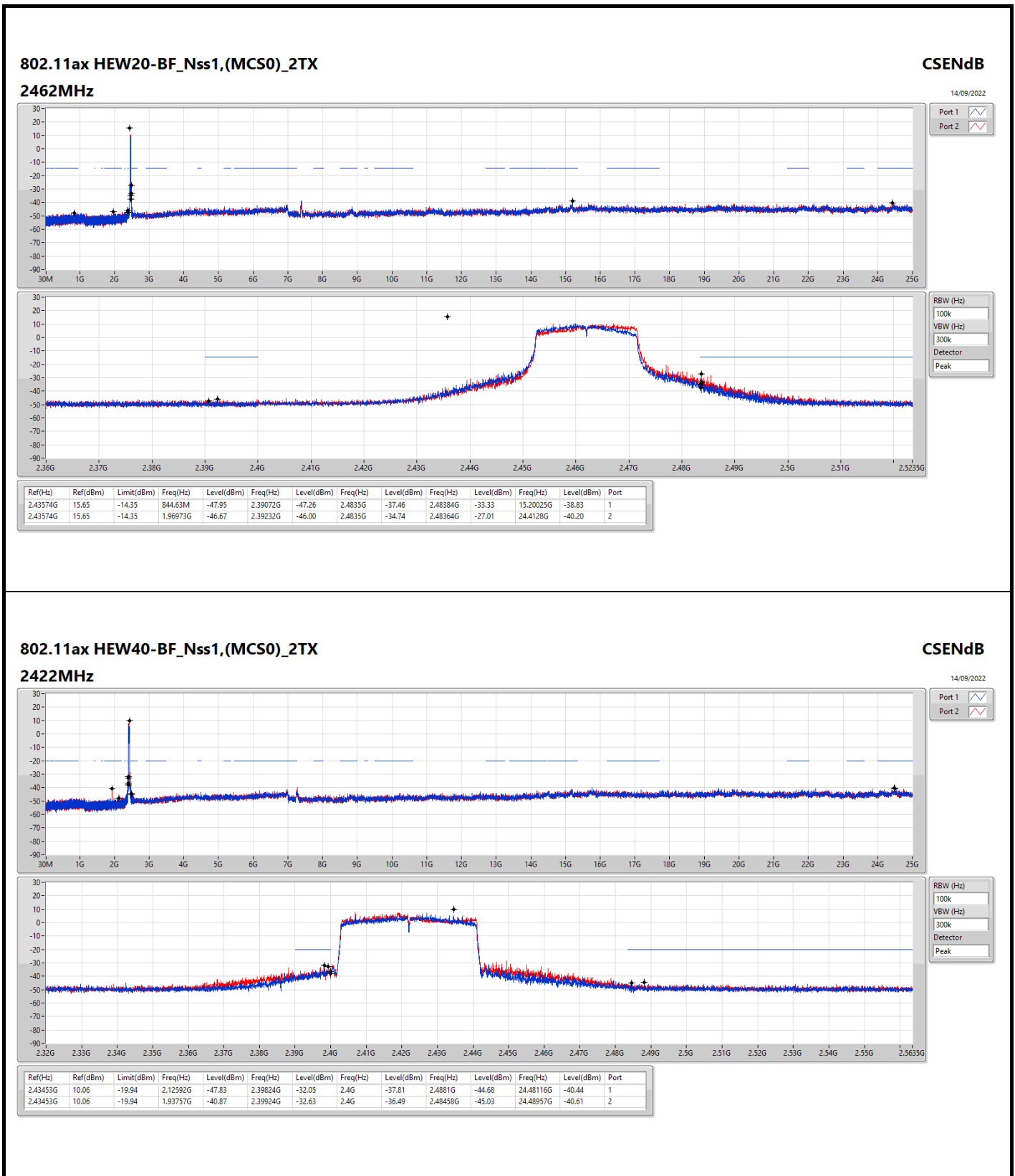
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43574G	15.65	-14.35	1.96973G	-46.67	2.39232G	-46.00	2.4835G	-34.74	2.48364G	-27.01	24.4128G	-40.20	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.43453G	10.06	-19.94	1.94959G	-43.48	2.3988G	-26.98	2.4G	-28.04	2.4867G	-30.35	21.85889G	-41.44	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
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	15.65	-14.35	2.16312G	-48.07	2.39896G	-28.60	2.4G	-31.23	2.50414G	-45.65	7.22952G	-39.21	1
2412MHz	Pass	2.43574G	15.65	-14.35	1.92982G	-42.48	2.39738G	-27.68	2.4G	-31.85	2.49296G	-46.04	7.23795G	-39.03	2
2437MHz	Pass	2.43574G	15.65	-14.35	714.44M	-47.05	2.39718G	-34.56	2.4G	-36.81	2.48738G	-38.25	24.51395G	-40.47	1
2437MHz	Pass	2.43574G	15.65	-14.35	1.94963G	-45.73	2.39878G	-32.83	2.4G	-37.11	2.48372G	-37.34	15.18901G	-41.14	2
2462MHz	Pass	2.43574G	15.65	-14.35	844.63M	-47.95	2.39072G	-47.26	2.4835G	-37.46	2.48384G	-33.33	15.20025G	-38.83	1
2462MHz	Pass	2.43574G	15.65	-14.35	1.96973G	-46.67	2.39232G	-46.00	2.4835G	-34.74	2.48364G	-27.01	24.4128G	-40.20	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43453G	10.06	-19.94	2.12592G	-47.83	2.39824G	-32.05	2.4G	-37.81	2.4881G	-44.68	24.48116G	-40.44	1
2422MHz	Pass	2.43453G	10.06	-19.94	1.93757G	-40.87	2.39924G	-32.63	2.4G	-36.49	2.48458G	-45.03	24.48957G	-40.61	2
2437MHz	Pass	2.43453G	10.06	-19.94	2.30225G	-47.73	2.39728G	-31.31	2.4G	-31.85	2.4845G	-31.96	24.5064G	-41.33	1
2437MHz	Pass	2.43453G	10.06	-19.94	1.94959G	-43.48	2.3988G	-26.98	2.4G	-28.04	2.4867G	-30.35	21.85889G	-41.44	2
2452MHz	Pass	2.43453G	10.06	-19.94	809.17M	-47.52	2.396G	-44.69	2.4835G	-39.20	2.4853G	-36.76	15.18403G	-41.19	1
2452MHz	Pass	2.43453G	10.06	-19.94	1.96162G	-43.24	2.3992G	-45.23	2.4835G	-38.66	2.48402G	-33.66	15.1672G	-41.17	2



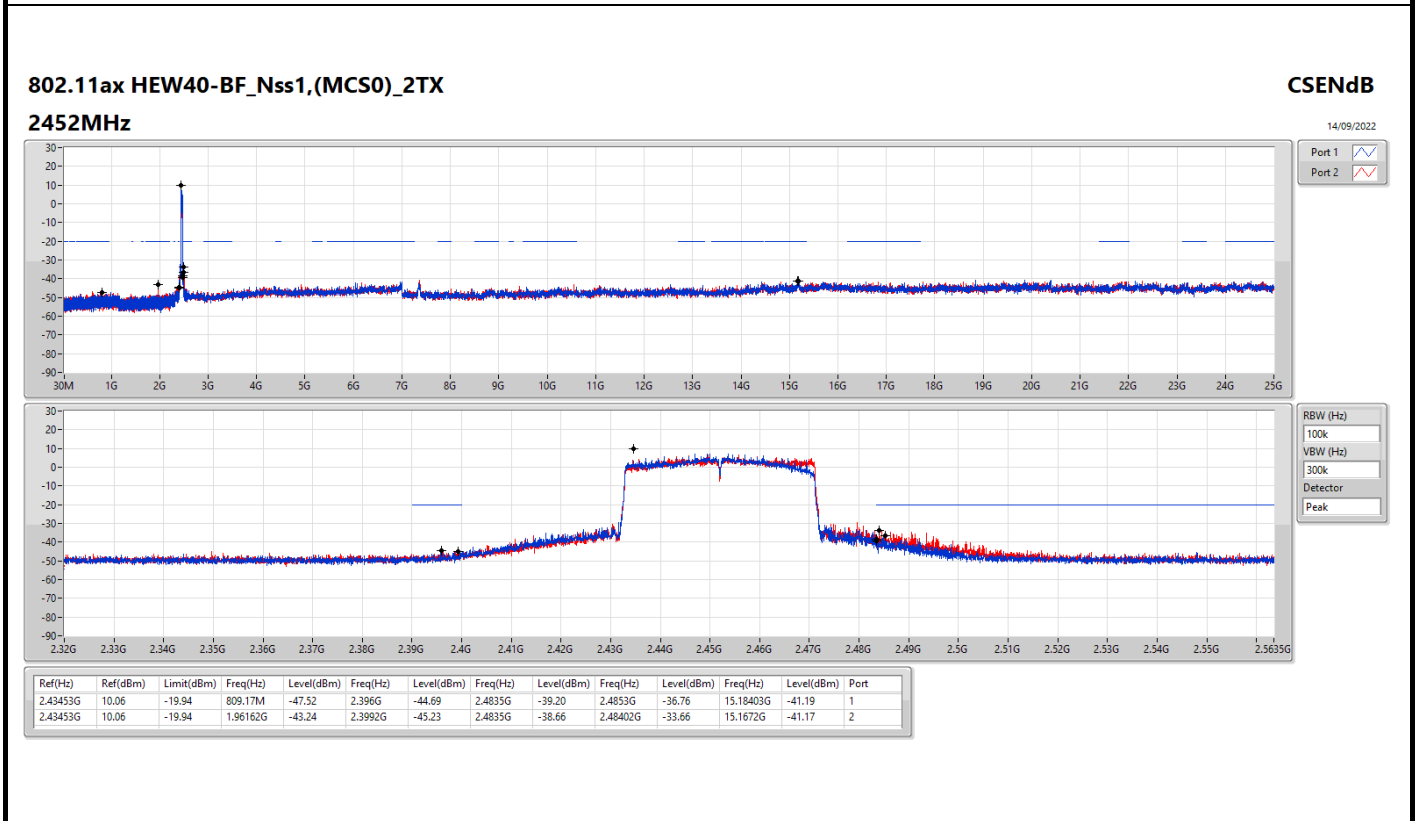
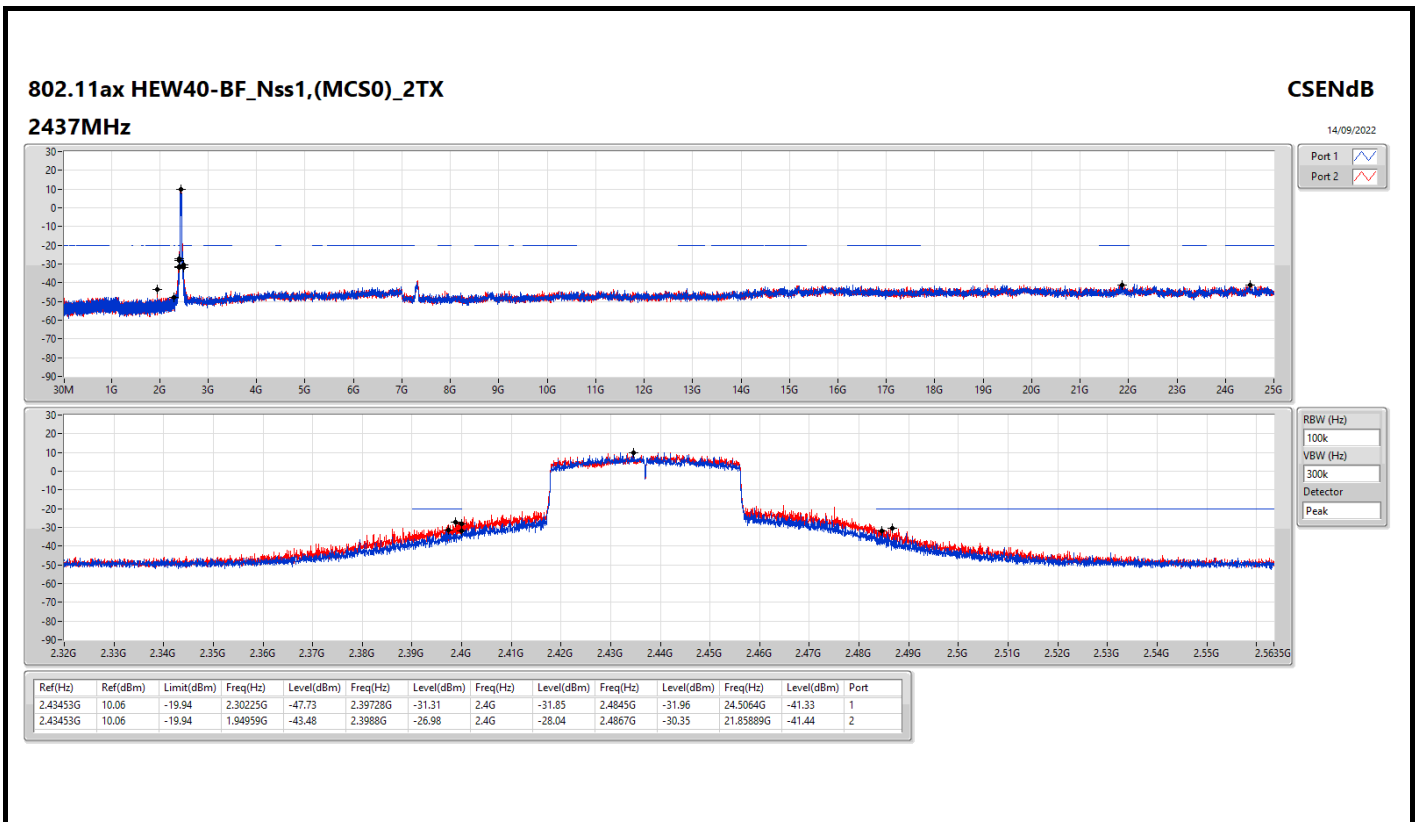


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz

CSENdB

14/09/2022

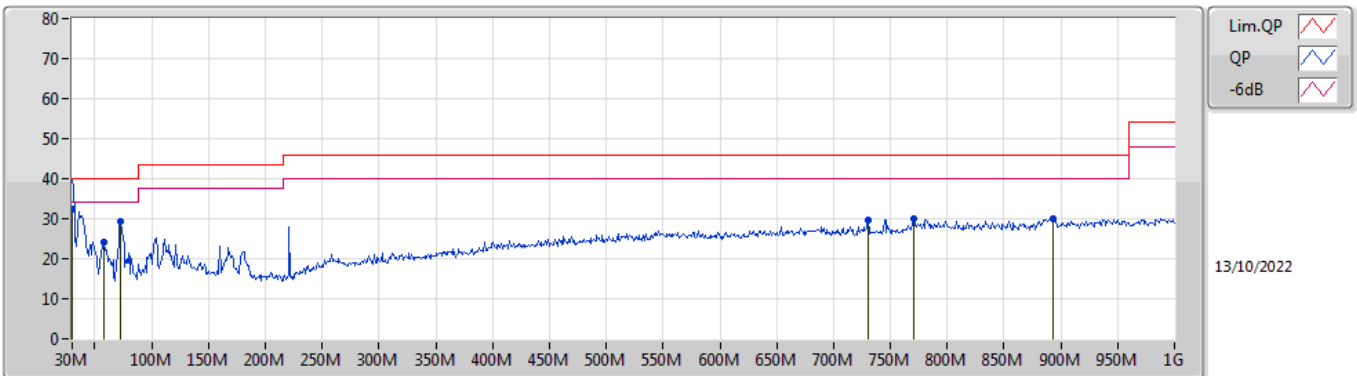




Summary

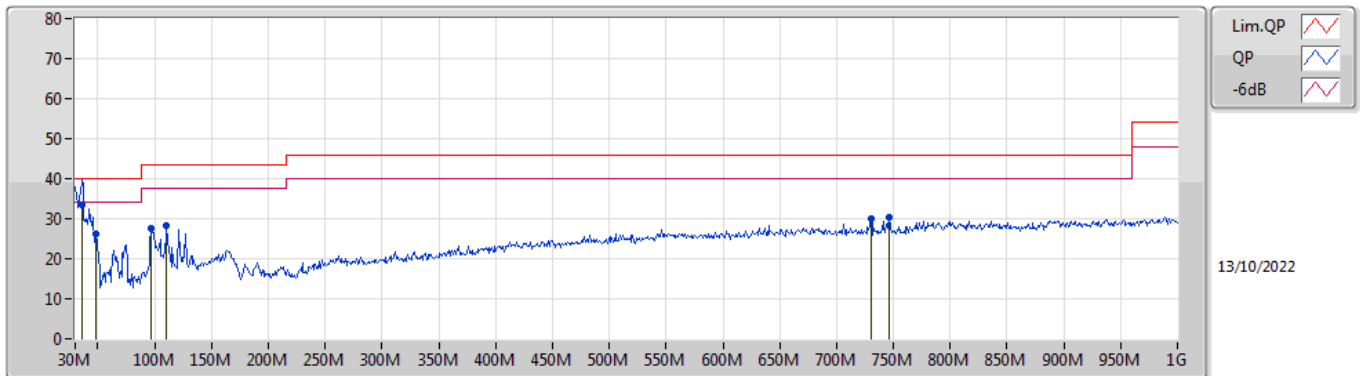
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	35.82M	33.54	40.00	-6.46	Horizontal

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	30M	32.38	40.00	-7.62	-7.12	3	Vertical	245	3.00	"Worst"	39.50	23.99	0.44	31.55
PK	58.13M	24.27	40.00	-15.73	-18.84	3	Vertical	323	1.00	-	43.11	12.32	0.75	31.91
PK	72.68M	29.30	40.00	-10.70	-18.92	3	Vertical	331	1.50	-	48.22	12.17	0.88	31.97
PK	730.34M	29.75	46.00	-16.25	-3.91	3	Vertical	107	3.00	-	33.66	24.98	3.70	32.59
PK	770.11M	29.89	46.00	-16.11	-3.35	3	Vertical	209	2.00	-	33.24	25.38	3.84	32.57
PK	893.3M	29.83	46.00	-16.17	-2.18	3	Vertical	148	2.00	-	32.01	26.17	4.14	32.49

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	35.82M	33.54	40.00	-6.46	-10.26	3	Horizontal	176	1.00	"Worst"	43.80	20.92	0.52	31.70
PK	48.43M	26.33	40.00	-13.67	-16.61	3	Horizontal	185	1.00	-	42.94	14.59	0.65	31.85
PK	96.93M	27.67	43.50	-15.83	-14.72	3	Horizontal	202	1.00	-	42.39	16.17	1.07	31.96
PK	110.51M	28.42	43.50	-15.08	-13.19	3	Horizontal	185	1.00	-	41.61	17.61	1.17	31.97
PK	730.34M	30.06	46.00	-15.94	-3.91	3	Horizontal	90	1.25	-	33.97	24.98	3.70	32.59
PK	746.83M	30.41	46.00	-15.59	-3.62	3	Horizontal	0	1.25	-	34.03	25.23	3.76	32.61

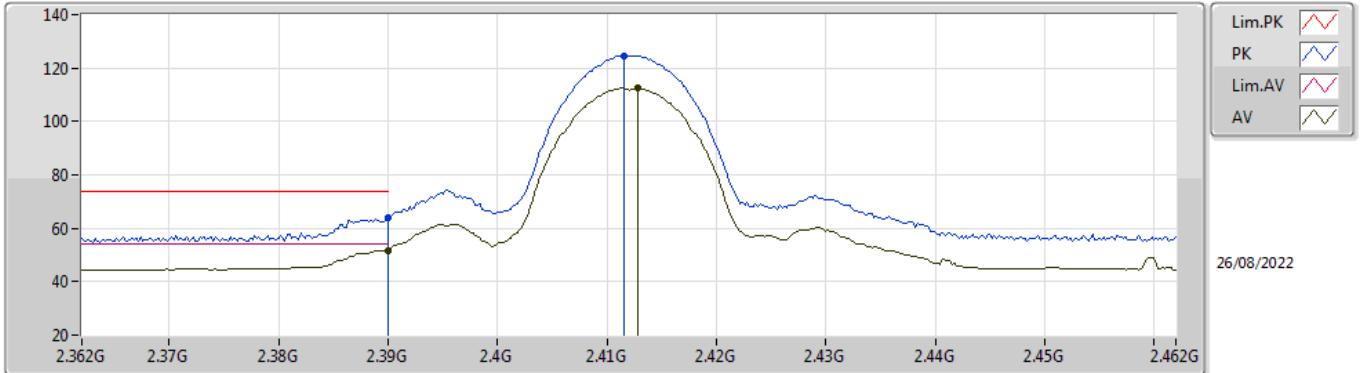


Summary

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_Nss2,(MCS0)_2TX	Pass	AV	2.39G	53.84	54.00	-0.16	3	Vertical	206	2.90	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

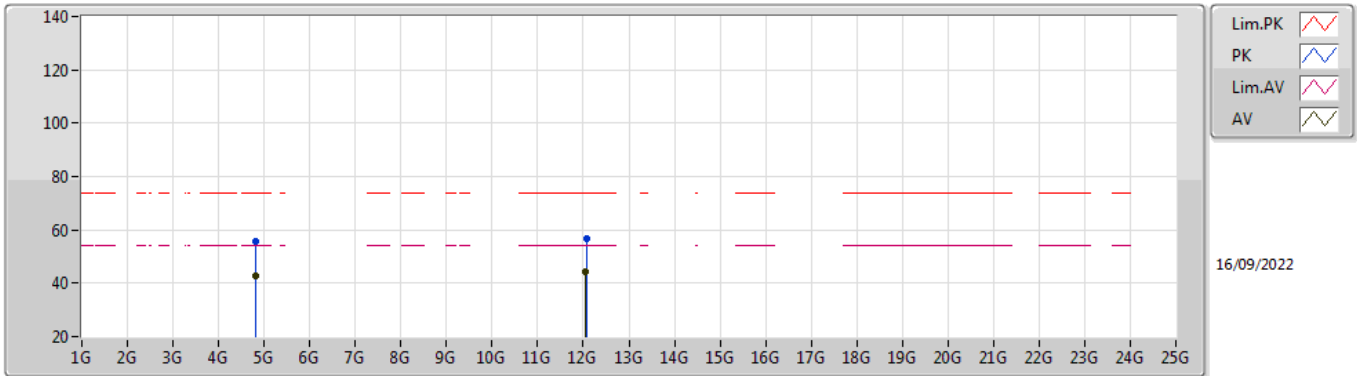


EUT_Z_2TX
Setting 53
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	63.78	74.00	-10.22	32.25	3	Vertical	58	1.80	-	27.64	3.89	-
AV	2.39G	51.79	54.00	-2.21	20.26	3	Vertical	58	1.80	-	27.64	3.89	-
PK	2.4116G	124.72	Inf	-Inf	93.22	3	Vertical	58	1.80	-	27.60	3.90	-
AV	2.4128G	112.50	Inf	-Inf	81.00	3	Vertical	58	1.80	-	27.60	3.90	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

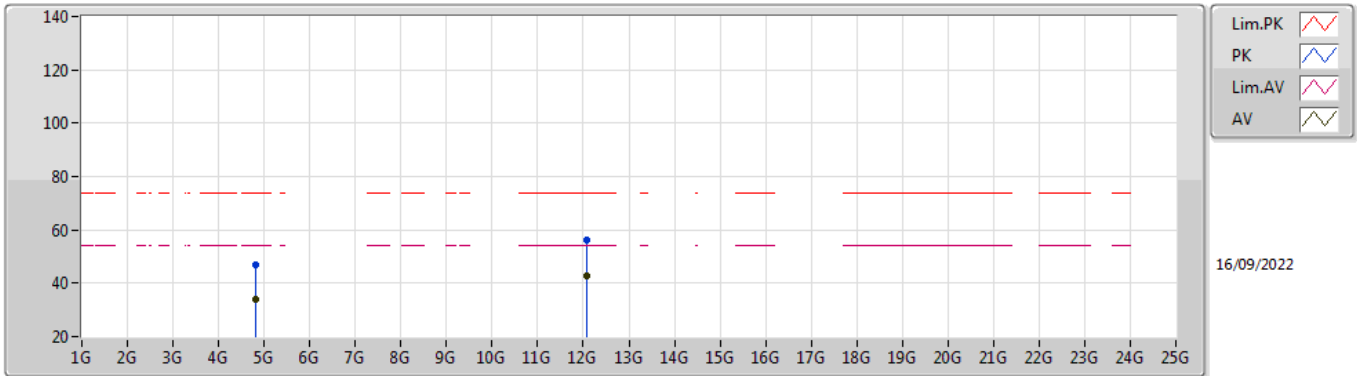


EUT_Z_2TX
Setting 53
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.824G	55.75	74.00	-18.25	51.52	3	Vertical	333	1.80	-	31.35	5.40	32.52
AV	4.82388G	42.74	54.00	-11.26	38.51	3	Vertical	333	1.80	-	31.35	5.40	32.52
PK	12.07152G	56.96	74.00	-17.04	42.95	3	Vertical	31	2.36	-	39.17	9.52	34.68
AV	12.0594G	44.08	54.00	-9.92	30.09	3	Vertical	31	2.36	-	39.16	9.51	34.68

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

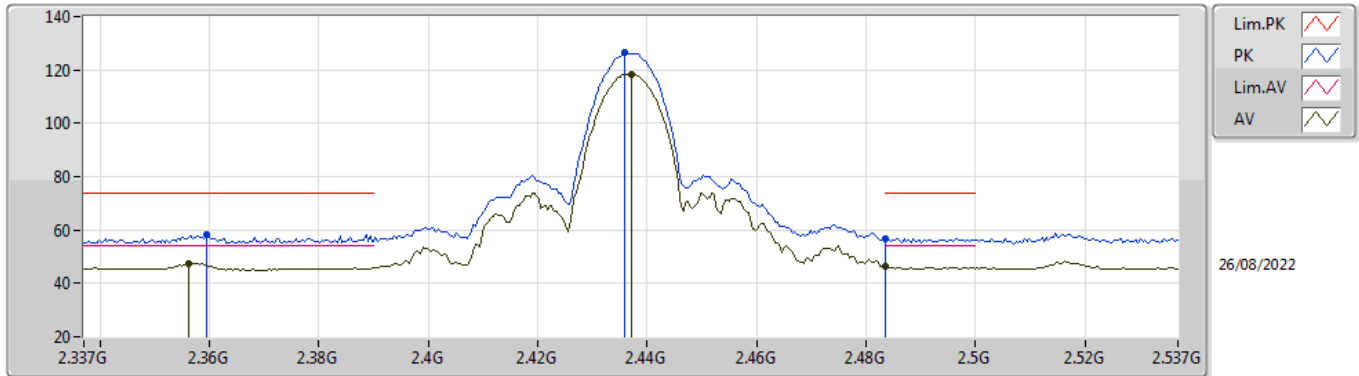


EUT_Z_2TX
Setting 53
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82502G	46.79	74.00	-27.21	42.56	3	Horizontal	252	2.40	-	31.35	5.40	32.52
AV	4.82694G	34.07	54.00	-19.93	29.84	3	Horizontal	252	2.40	-	31.35	5.40	32.52
PK	12.07242G	56.36	74.00	-17.64	42.35	3	Horizontal	114	1.84	-	39.17	9.52	34.68
AV	12.0732G	42.72	54.00	-11.28	28.71	3	Horizontal	114	1.84	-	39.17	9.52	34.68

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

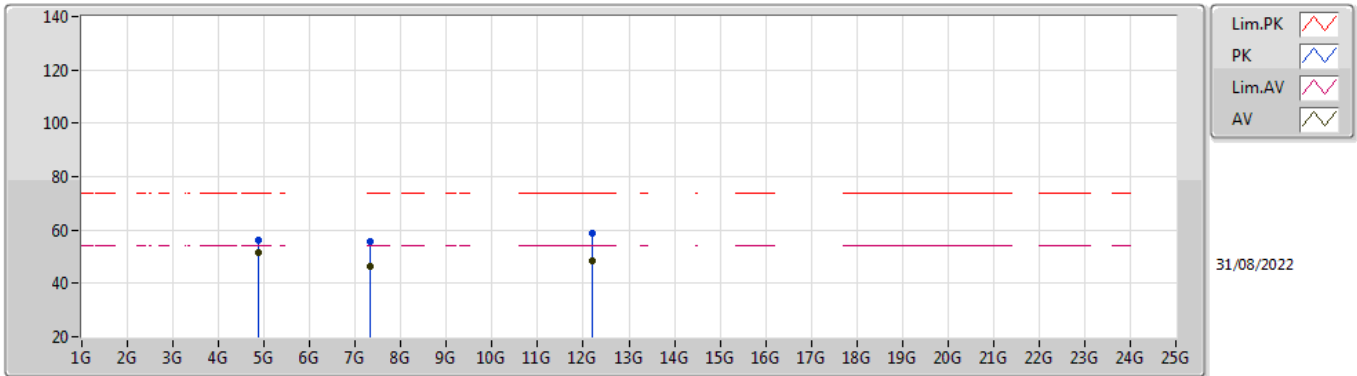


EUT_Z_2TX
Setting 54
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3594G	58.37	74.00	-15.63	26.75	3	Vertical	60	1.80	-	27.76	3.86	-
AV	2.3562G	47.48	54.00	-6.52	15.84	3	Vertical	60	1.80	-	27.78	3.86	-
PK	2.4358G	126.37	Inf	-Inf	94.87	3	Vertical	60	1.80	-	27.60	3.90	-
AV	2.437G	118.50	Inf	-Inf	87.00	3	Vertical	60	1.80	-	27.60	3.90	-
PK	2.4835G	56.98	74.00	-17.02	25.48	3	Vertical	60	1.80	-	27.60	3.90	-
AV	2.4835G	46.15	54.00	-7.85	14.65	3	Vertical	60	1.80	-	27.60	3.90	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

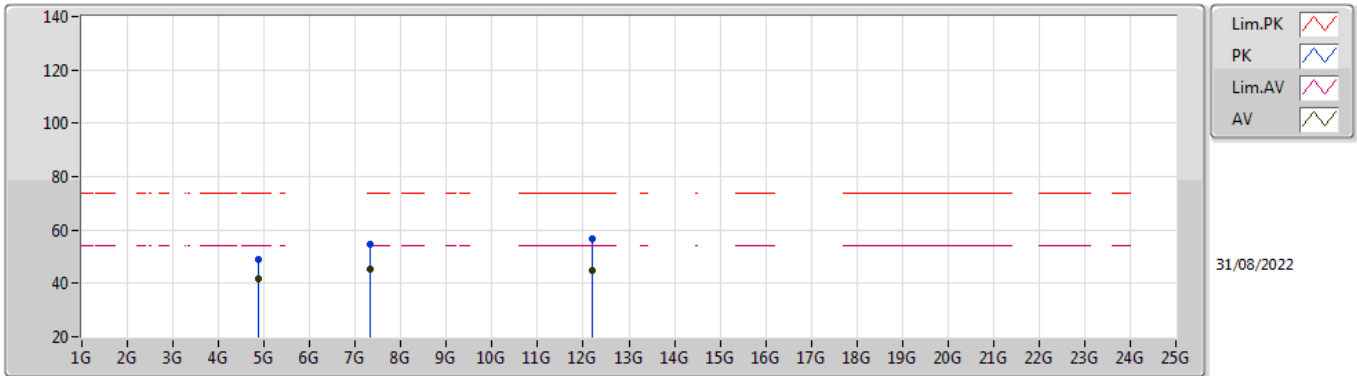


EUT_Z_2TX
Setting 54
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87404G	55.95	74.00	-18.05	51.65	3	Vertical	16.3	1.65	-	31.40	5.40	32.50
AV	4.87404G	51.71	54.00	-2.29	47.41	3	Vertical	16.3	1.65	-	31.40	5.40	32.50
PK	7.31492G	55.46	74.00	-18.54	45.49	3	Vertical	105	2.94	-	36.70	6.71	33.44
AV	7.31188G	46.30	54.00	-7.70	36.33	3	Vertical	105	2.94	-	36.70	6.71	33.44
PK	12.18436G	58.73	74.00	-15.27	44.75	3	Vertical	346	2.31	-	39.12	9.55	34.69
AV	12.18432G	48.41	54.00	-5.59	34.43	3	Vertical	346	2.31	-	39.12	9.55	34.69

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

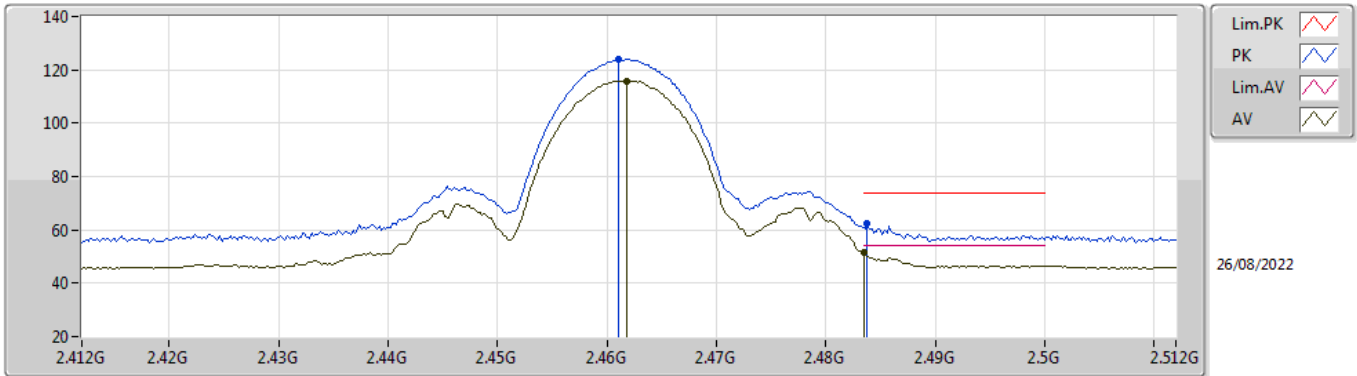


EUT_Z_2TX
Setting 54
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87416G	49.22	74.00	-24.78	44.92	3	Horizontal	16	1.34	-	31.40	5.40	32.50
AV	4.87408G	41.58	54.00	-12.42	37.28	3	Horizontal	16	1.34	-	31.40	5.40	32.50
PK	7.31316G	54.58	74.00	-19.42	44.61	3	Horizontal	210	2.26	-	36.70	6.71	33.44
AV	7.3104G	45.11	54.00	-8.89	35.14	3	Horizontal	210	2.26	-	36.70	6.71	33.44
PK	12.19456G	56.97	74.00	-17.03	43.00	3	Horizontal	251	2.17	-	39.11	9.55	34.69
AV	12.1878G	44.90	54.00	-9.10	30.93	3	Horizontal	251	2.17	-	39.11	9.55	34.69

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

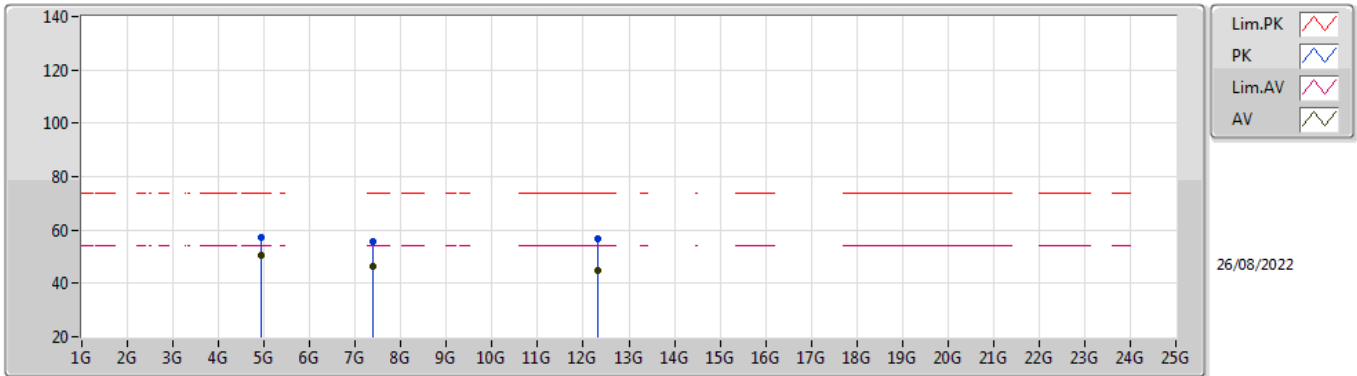


EUT_Z_2TX
Setting 50
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	124.01	Inf	-Inf	92.51	3	Vertical	62	1.80	-	27.60	3.90	-
AV	2.4618G	115.85	Inf	-Inf	84.35	3	Vertical	62	1.80	-	27.60	3.90	-
PK	2.4838G	62.18	74.00	-11.82	30.68	3	Vertical	62	1.80	-	27.60	3.90	-
AV	2.4835G	51.77	54.00	-2.23	20.27	3	Vertical	62	1.80	-	27.60	3.90	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

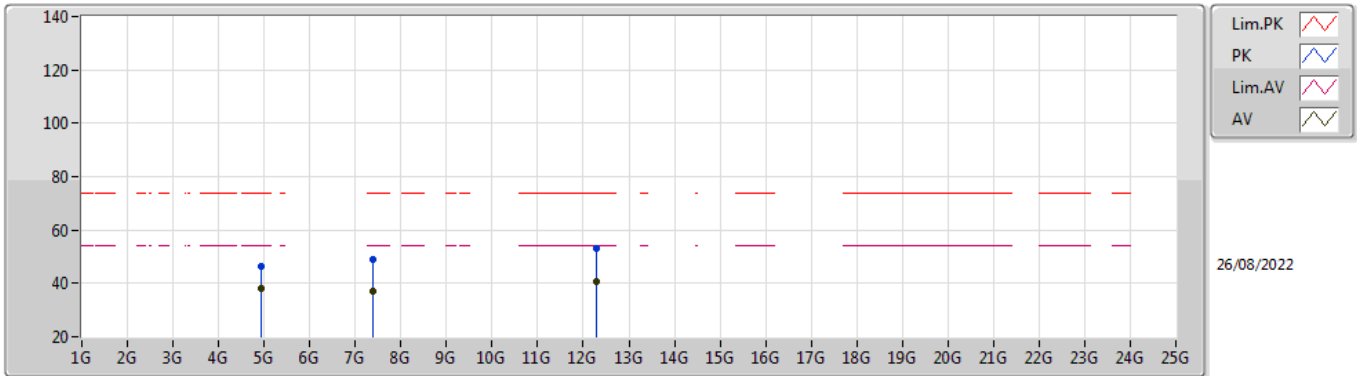


EUT_Z_2TX
Setting 50
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92428G	57.04	74.00	-16.96	52.66	3	Vertical	318	2.98	-	31.45	5.40	32.47
AV	4.92704G	50.74	54.00	-3.26	46.36	3	Vertical	318	2.98	-	31.45	5.40	32.47
PK	7.38672G	55.69	74.00	-18.31	45.74	3	Vertical	359	2.19	-	36.70	6.79	33.54
AV	7.3854G	46.57	54.00	-7.43	36.61	3	Vertical	359	2.19	-	36.70	6.79	33.53
PK	12.30712G	56.56	74.00	-17.44	42.88	3	Vertical	137	3.00	-	38.79	9.58	34.69
AV	12.30802G	44.68	54.00	-9.32	31.00	3	Vertical	137	3.00	-	38.79	9.58	34.69

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

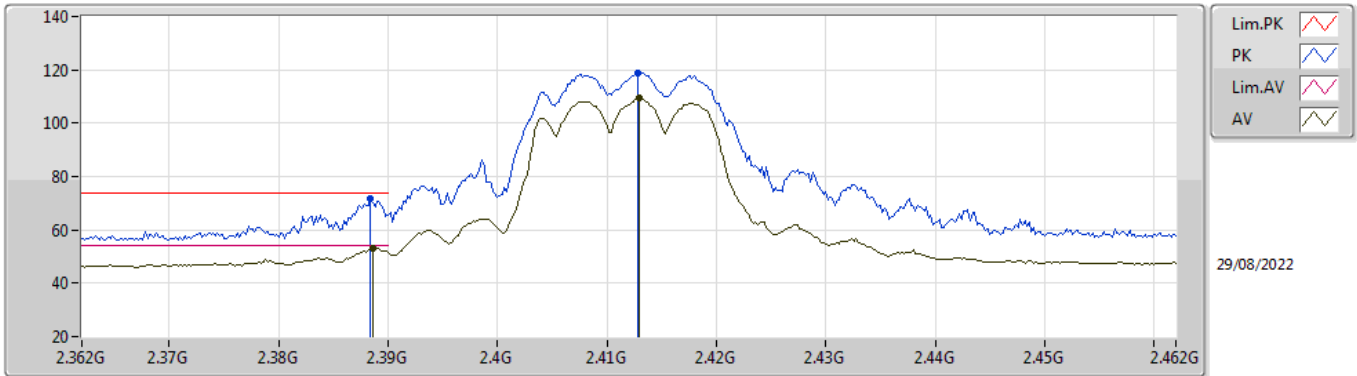


EUT_Z_2TX
Setting 50
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9294G	46.62	74.00	-27.38	42.23	3	Horizontal	16	1.00	-	31.46	5.40	32.47
AV	4.92406G	38.16	54.00	-15.84	33.78	3	Horizontal	16	1.00	-	31.45	5.40	32.47
PK	7.37958G	48.72	74.00	-25.28	38.77	3	Horizontal	331	1.24	-	36.70	6.78	33.53
AV	7.38522G	37.27	54.00	-16.73	27.31	3	Horizontal	331	1.24	-	36.70	6.79	33.53
PK	12.29698G	52.87	74.00	-21.13	39.18	3	Horizontal	76	1.52	-	38.81	9.57	34.69
AV	12.29812G	40.64	54.00	-13.36	26.95	3	Horizontal	76	1.52	-	38.81	9.57	34.69

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

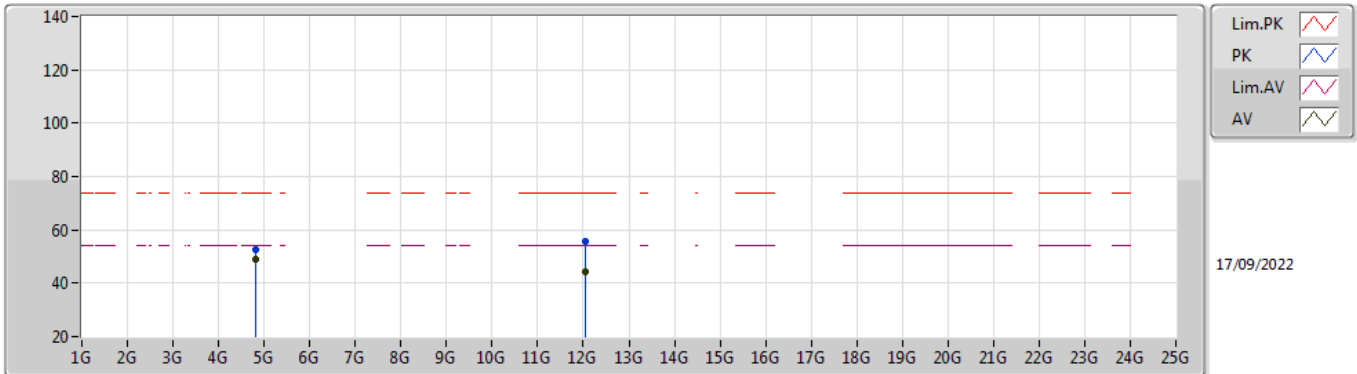


EUT_Z_2TX
Setting 45
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	71.49	74.00	-2.51	39.95	3	Vertical	197	1.87	-	27.65	3.89	-
AV	2.3886G	53.12	54.00	-0.88	21.58	3	Vertical	197	1.87	-	27.65	3.89	-
PK	2.4128G	118.98	Inf	-Inf	87.48	3	Vertical	197	1.87	-	27.60	3.90	-
AV	2.413G	109.29	Inf	-Inf	77.79	3	Vertical	197	1.87	-	27.60	3.90	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

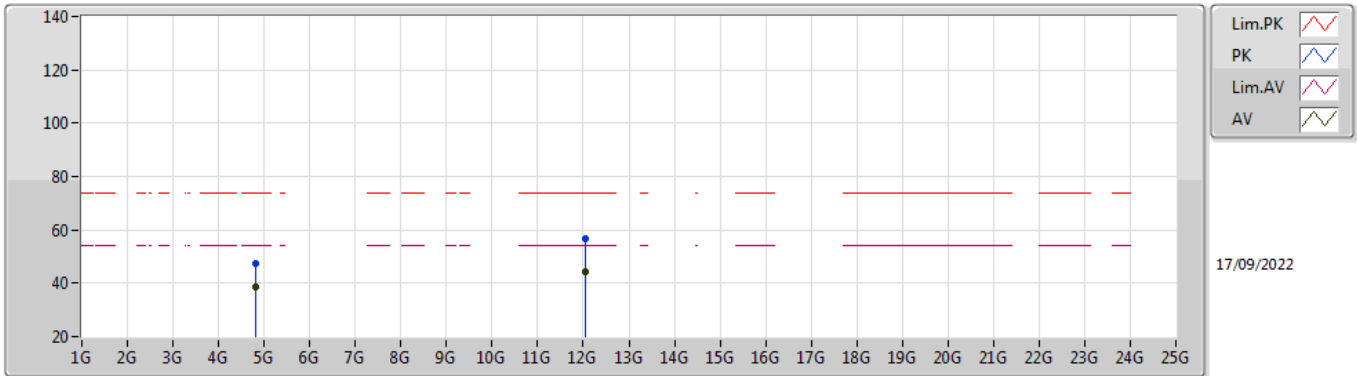


EUT_Z_2TX
Setting 45
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82408G	52.40	74.00	-21.60	48.17	3	Vertical	329	2.79	-	31.35	5.40	32.52
AV	4.82402G	48.74	54.00	-5.26	44.51	3	Vertical	329	2.79	-	31.35	5.40	32.52
PK	12.05878G	55.70	74.00	-18.30	41.71	3	Vertical	360	1.80	-	39.16	9.51	34.68
AV	12.05702G	44.10	54.00	-9.90	30.11	3	Vertical	360	1.80	-	39.16	9.51	34.68

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

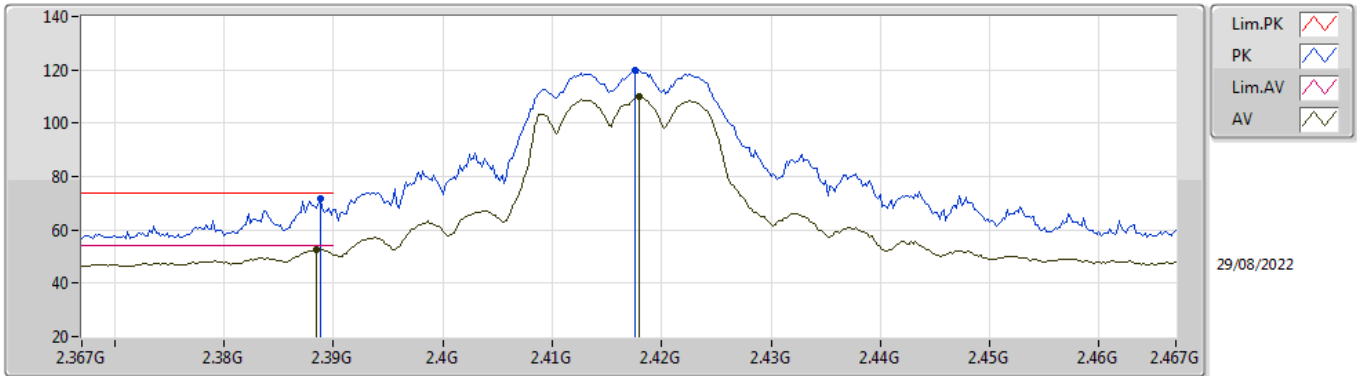


EUT_Z_2TX
Setting 45
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82396G	47.30	74.00	-26.70	43.07	3	Horizontal	252	2.59	-	31.35	5.40	32.52
AV	4.824G	38.62	54.00	-15.38	34.39	3	Horizontal	252	2.59	-	31.35	5.40	32.52
PK	12.05852G	56.53	74.00	-17.47	42.54	3	Horizontal	35	1.38	-	39.16	9.51	34.68
AV	12.061G	44.08	54.00	-9.92	30.08	3	Horizontal	35	1.38	-	39.16	9.52	34.68

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

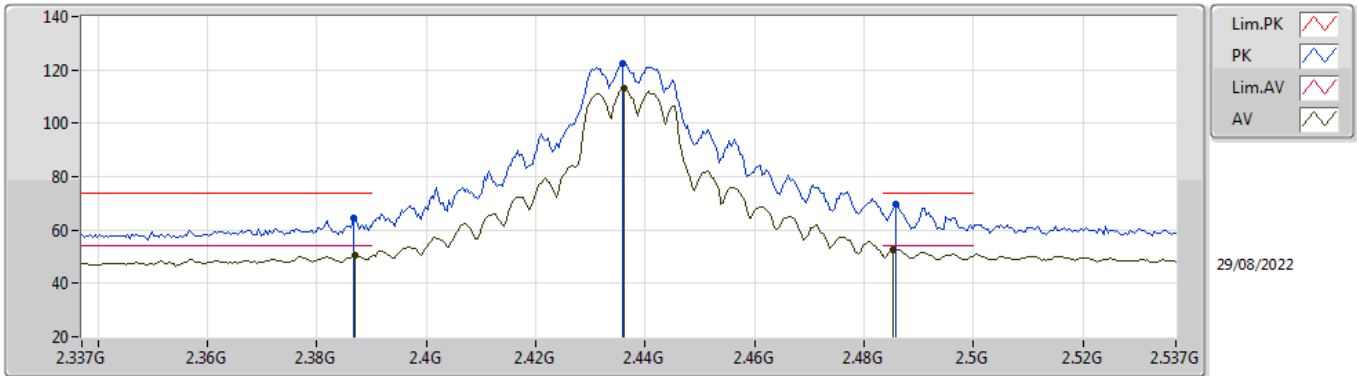


EUT_Z_2TX
Setting 48
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	71.82	74.00	-2.18	40.29	3	Vertical	197	2.34	-	27.64	3.89	-
AV	2.3884G	52.76	54.00	-1.24	21.22	3	Vertical	197	2.34	-	27.65	3.89	-
PK	2.4176G	119.96	Inf	-Inf	88.46	3	Vertical	197	2.34	-	27.60	3.90	-
AV	2.418G	109.88	Inf	-Inf	78.38	3	Vertical	197	2.34	-	27.60	3.90	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

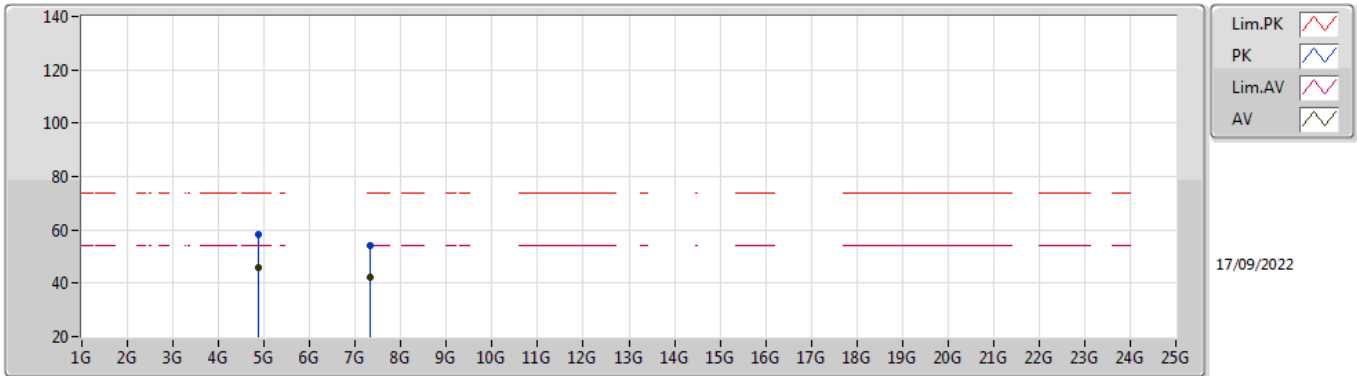


EUT_Z_2TX
Setting 54
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	64.45	74.00	-9.55	32.91	3	Vertical	324	1.80	-	27.65	3.89	-
AV	2.387G	50.33	54.00	-3.67	18.79	3	Vertical	324	1.80	-	27.65	3.89	-
PK	2.4358G	122.66	Inf	-Inf	91.16	3	Vertical	324	1.80	-	27.60	3.90	-
AV	2.4362G	112.99	Inf	-Inf	81.49	3	Vertical	324	1.80	-	27.60	3.90	-
PK	2.4858G	69.69	74.00	-4.31	38.19	3	Vertical	324	1.80	-	27.60	3.90	-
AV	2.4854G	52.84	54.00	-1.16	21.34	3	Vertical	324	1.80	-	27.60	3.90	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

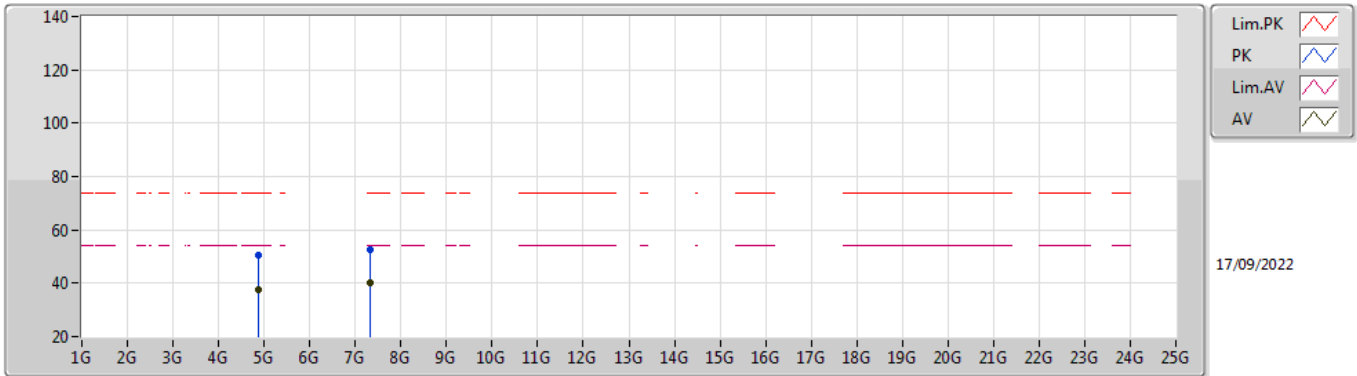


EUT_Z_2TX
Setting 54
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87394G	58.41	74.00	-15.59	54.11	3	Vertical	324	1.58	-	31.40	5.40	32.50
AV	4.87342G	45.64	54.00	-8.36	41.34	3	Vertical	324	1.58	-	31.40	5.40	32.50
PK	7.31152G	54.21	74.00	-19.79	44.24	3	Vertical	0	2.18	-	36.70	6.71	33.44
AV	7.31106G	42.49	54.00	-11.51	32.52	3	Vertical	0	2.18	-	36.70	6.71	33.44

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

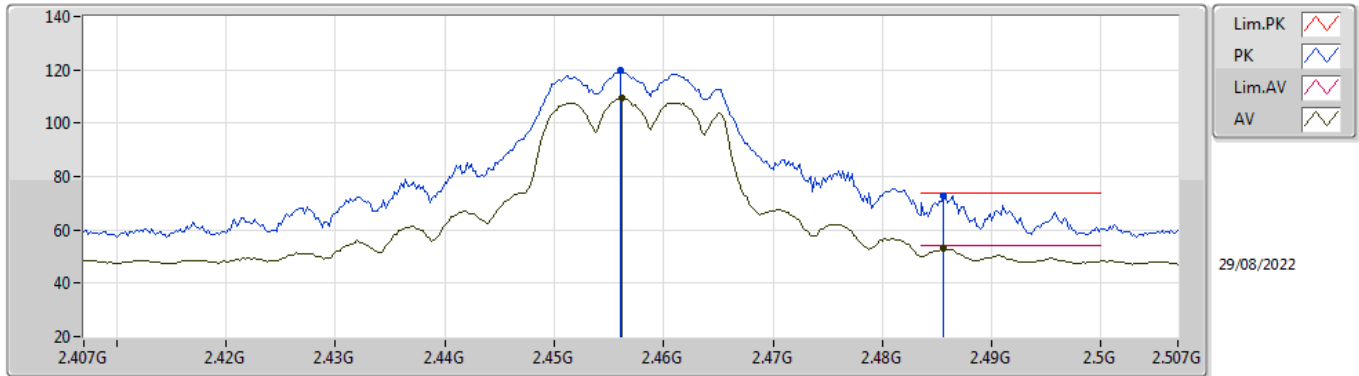


EUT_Z_2TX
Setting 54
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87402G	50.76	74.00	-23.24	46.46	3	Horizontal	19	1.15	-	31.40	5.40	32.50
AV	4.87444G	37.52	54.00	-16.48	33.22	3	Horizontal	19	1.15	-	31.40	5.40	32.50
PK	7.31226G	52.46	74.00	-21.54	42.49	3	Horizontal	118	2.20	-	36.70	6.71	33.44
AV	7.31194G	40.26	54.00	-13.74	30.29	3	Horizontal	118	2.20	-	36.70	6.71	33.44

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

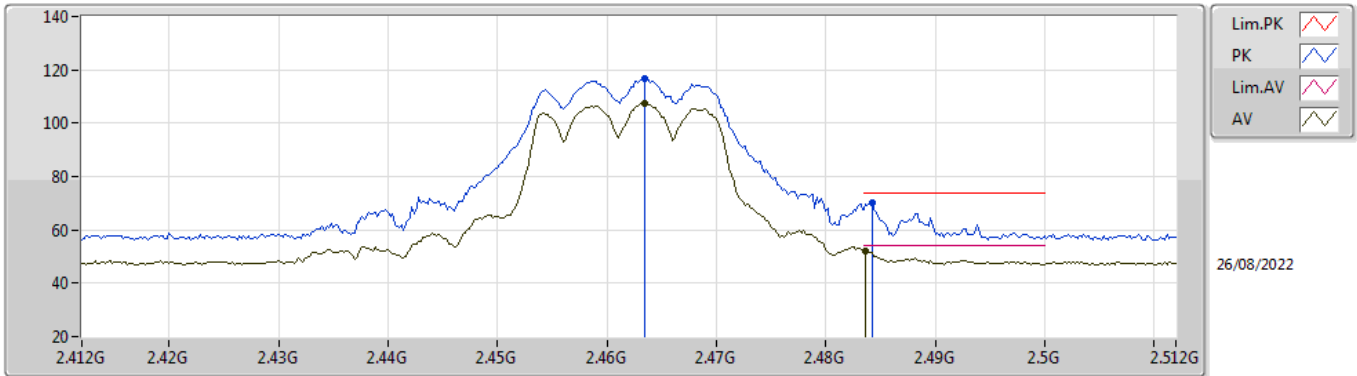


EUT_Z_2TX
Setting 47
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.456G	119.95	Inf	-Inf	88.45	3	Vertical	213	2.77	-	27.60	3.90	-
AV	2.4562G	109.56	Inf	-Inf	78.06	3	Vertical	213	2.77	-	27.60	3.90	-
PK	2.4856G	72.72	74.00	-1.28	41.22	3	Vertical	213	2.77	-	27.60	3.90	-
AV	2.4856G	52.95	54.00	-1.05	21.45	3	Vertical	213	2.77	-	27.60	3.90	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

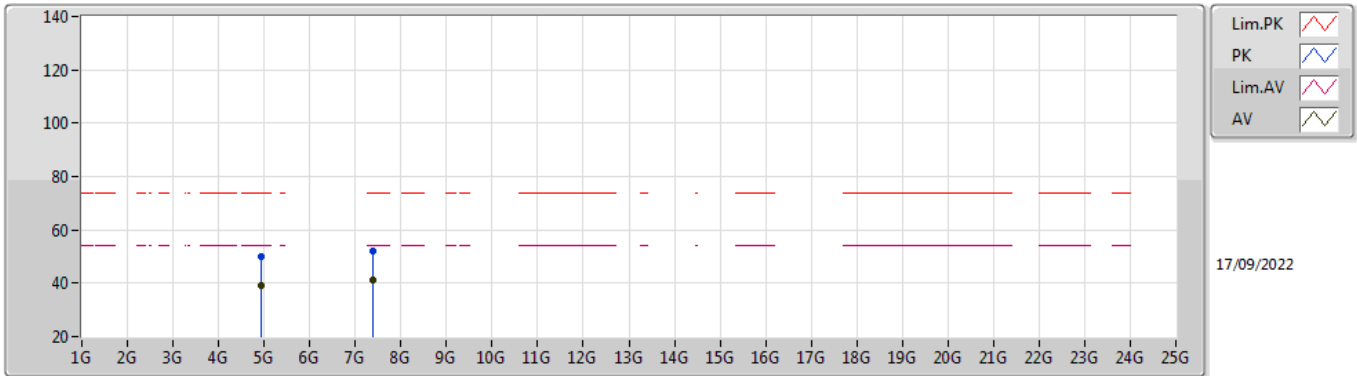


EUT_Z_2TX
Setting 44
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4634G	116.85	Inf	-Inf	85.35	3	Vertical	216	1.80	-	27.60	3.90	-
AV	2.4634G	107.25	Inf	-Inf	75.75	3	Vertical	216	1.80	-	27.60	3.90	-
PK	2.4842G	70.29	74.00	-3.71	38.79	3	Vertical	216	1.80	-	27.60	3.90	-
AV	2.4836G	52.16	54.00	-1.84	20.66	3	Vertical	216	1.80	-	27.60	3.90	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

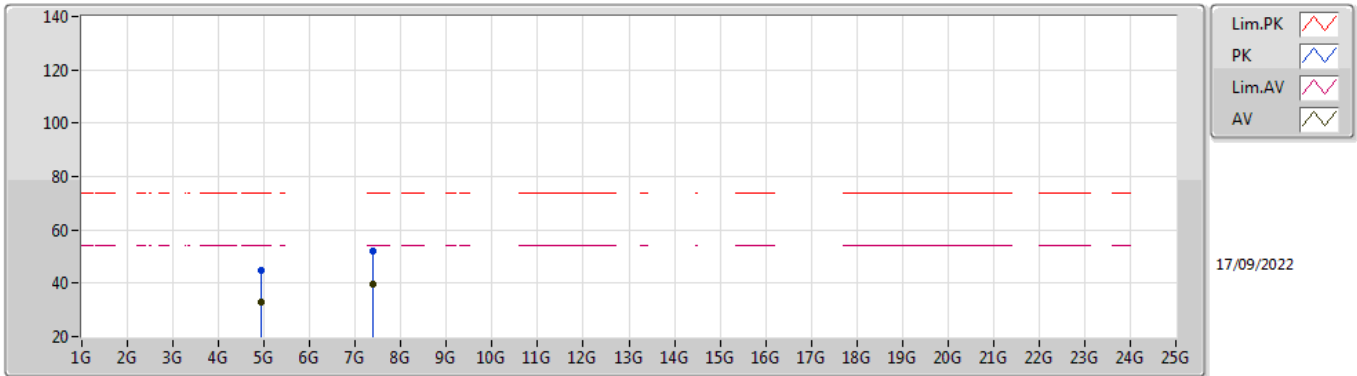


EUT_Z_2TX
Setting 44
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92368G	50.05	74.00	-23.95	45.68	3	Vertical	321	3.00	-	31.45	5.40	32.48
AV	4.92366G	39.09	54.00	-14.91	34.72	3	Vertical	321	3.00	-	31.45	5.40	32.48
PK	7.38456G	51.98	74.00	-22.02	42.03	3	Vertical	359	1.03	-	36.70	6.78	33.53
AV	7.3899G	41.18	54.00	-12.82	31.23	3	Vertical	359	1.03	-	36.70	6.79	33.54

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

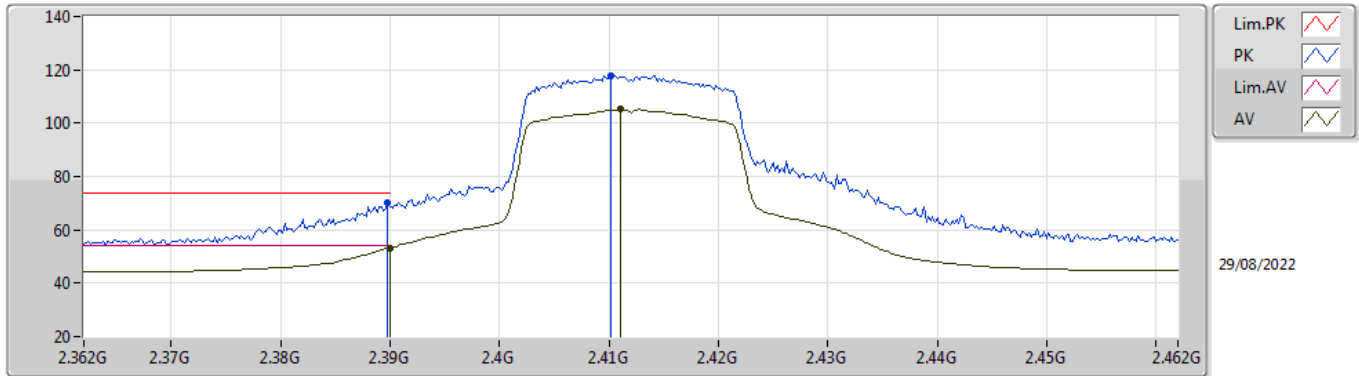


EUT_Z_2TX
Setting 44
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92672G	44.85	74.00	-29.15	40.47	3	Horizontal	184	2.92	-	31.45	5.40	32.47
AV	4.92612G	32.69	54.00	-21.31	28.31	3	Horizontal	184	2.92	-	31.45	5.40	32.47
PK	7.38856G	52.21	74.00	-21.79	42.26	3	Horizontal	356	1.85	-	36.70	6.79	33.54
AV	7.38452G	39.62	54.00	-14.38	29.67	3	Horizontal	356	1.85	-	36.70	6.78	33.53

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

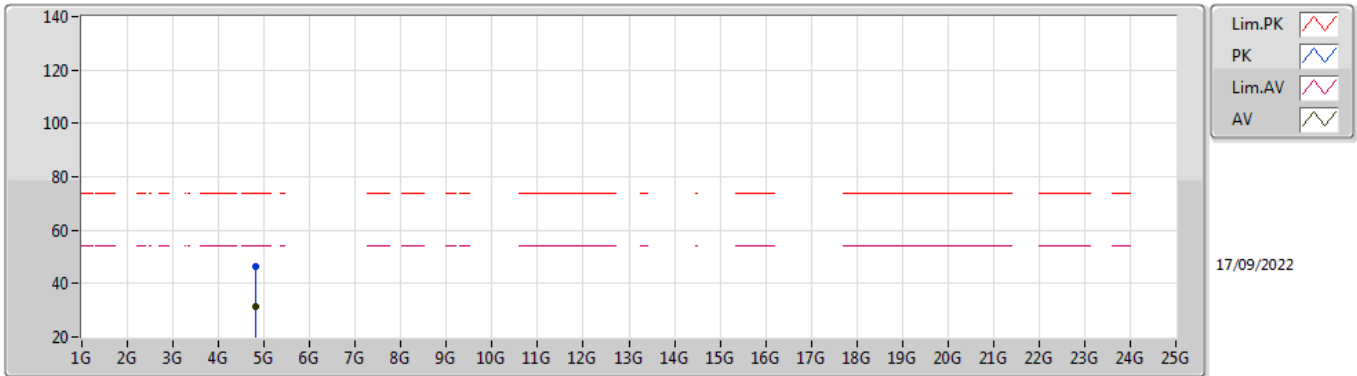


EUT_Z_2TX
Setting 40
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	70.34	74.00	-3.66	38.81	3	Vertical	199	1.80	-	27.64	3.89	-
AV	2.39G	53.14	54.00	-0.86	21.61	3	Vertical	199	1.80	-	27.64	3.89	-
PK	2.4102G	117.82	Inf	-Inf	86.32	3	Vertical	199	1.80	-	27.60	3.90	-
AV	2.411G	105.11	Inf	-Inf	73.61	3	Vertical	199	1.80	-	27.60	3.90	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

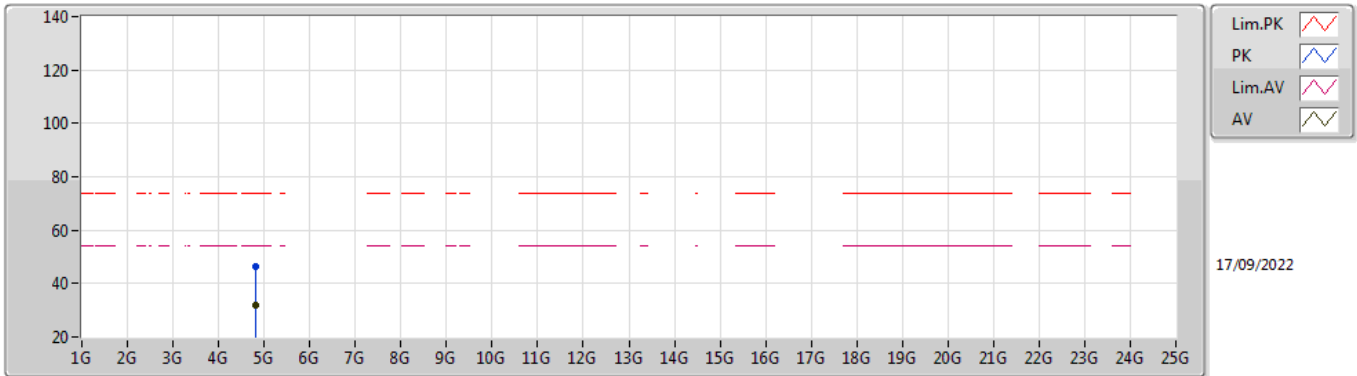


EUT Z_2TX
Setting 40
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82708G	46.61	74.00	-27.39	42.38	3	Vertical	144	2.10	-	31.35	5.40	32.52
AV	4.82016G	31.58	54.00	-22.42	27.36	3	Vertical	144	2.10	-	31.34	5.40	32.52

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

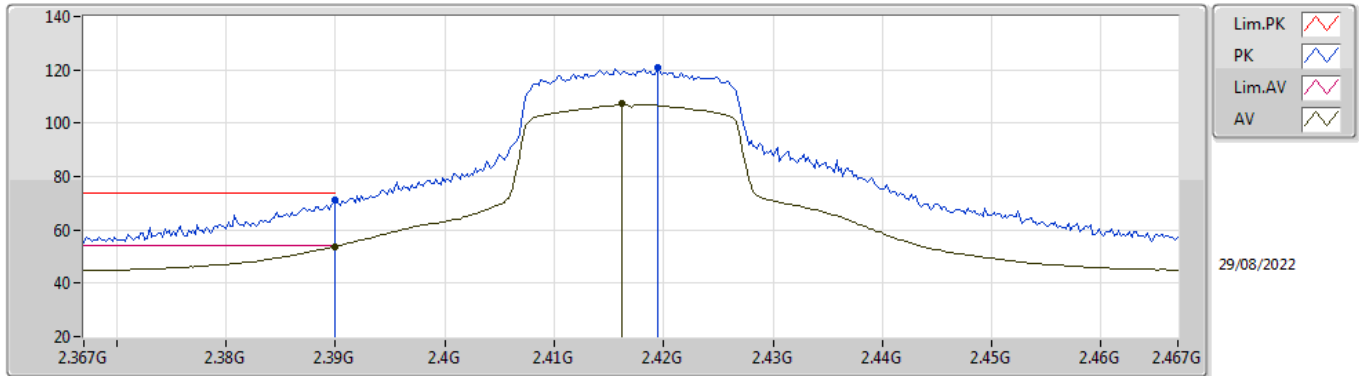


EUT Z_2TX
Setting 40
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82524G	46.30	74.00	-27.70	42.07	3	Horizontal	72	1.02	-	31.35	5.40	32.52
AV	4.82654G	31.65	54.00	-22.35	27.42	3	Horizontal	72	1.02	-	31.35	5.40	32.52

802.11ax HEW20_Nss2,(MCS0)_2TX

2417MHz_TX

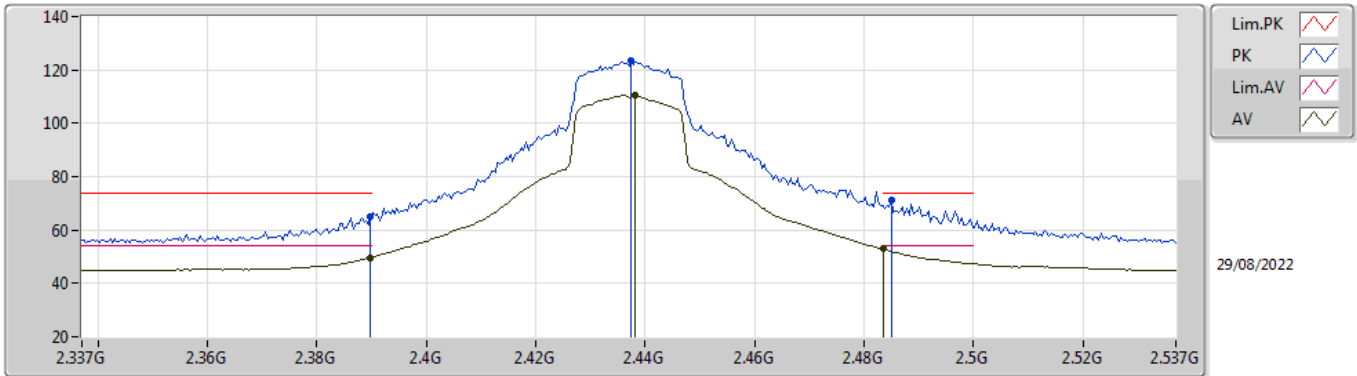


EUT_Z_2TX
Setting 43
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	71.20	74.00	-2.80	39.67	3	Vertical	206	2.90	-	27.64	3.89	-
AV	2.39G	53.84	54.00	-0.16	22.31	3	Vertical	206	2.90	-	27.64	3.89	-
PK	2.4194G	120.70	Inf	-Inf	89.20	3	Vertical	206	2.90	-	27.60	3.90	-
AV	2.4162G	107.18	Inf	-Inf	75.68	3	Vertical	206	2.90	-	27.60	3.90	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

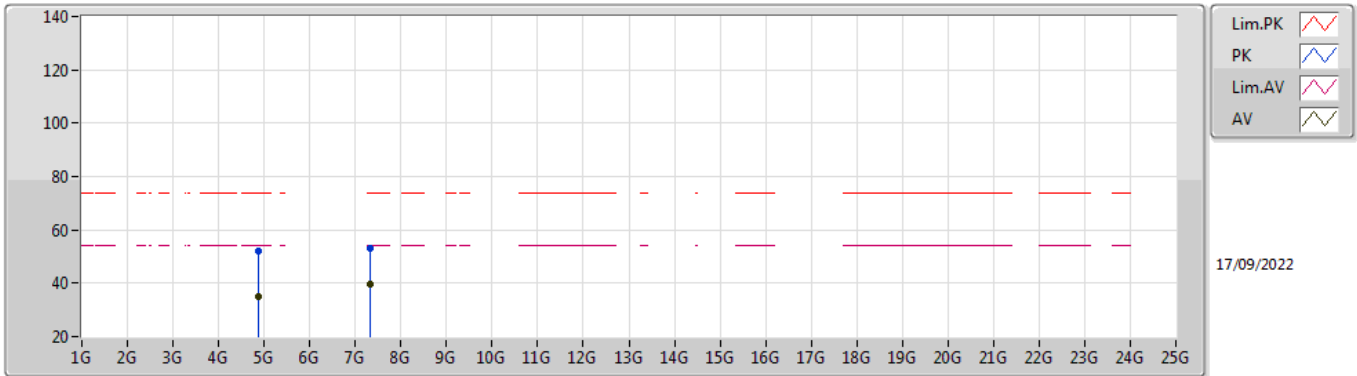


EUT_Z_2TX
Setting 50
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	65.17	74.00	-8.83	33.64	3	Vertical	332	2.85	-	27.64	3.89	-
AV	2.3898G	49.67	54.00	-4.33	18.14	3	Vertical	332	2.85	-	27.64	3.89	-
PK	2.4374G	123.24	Inf	-Inf	91.74	3	Vertical	332	2.85	-	27.60	3.90	-
AV	2.4382G	110.43	Inf	-Inf	78.93	3	Vertical	332	2.85	-	27.60	3.90	-
PK	2.485G	70.96	74.00	-3.04	39.46	3	Vertical	332	2.85	-	27.60	3.90	-
AV	2.4835G	52.90	54.00	-1.10	21.40	3	Vertical	332	2.85	-	27.60	3.90	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

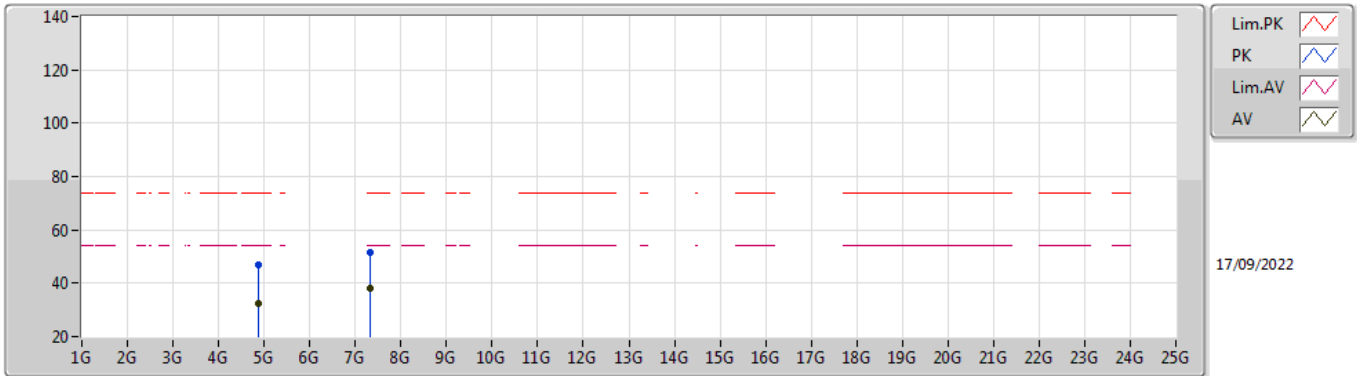


EUT Z_2TX
Setting 50
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87536G	51.97	74.00	-22.03	47.67	3	Vertical	302	1.80	-	31.40	5.40	32.50
AV	4.8751G	35.17	54.00	-18.83	30.87	3	Vertical	302	1.80	-	31.40	5.40	32.50
PK	7.31598G	53.03	74.00	-20.97	43.05	3	Vertical	0	2.19	-	36.70	6.72	33.44
AV	7.31086G	39.41	54.00	-14.59	29.44	3	Vertical	0	2.19	-	36.70	6.71	33.44

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

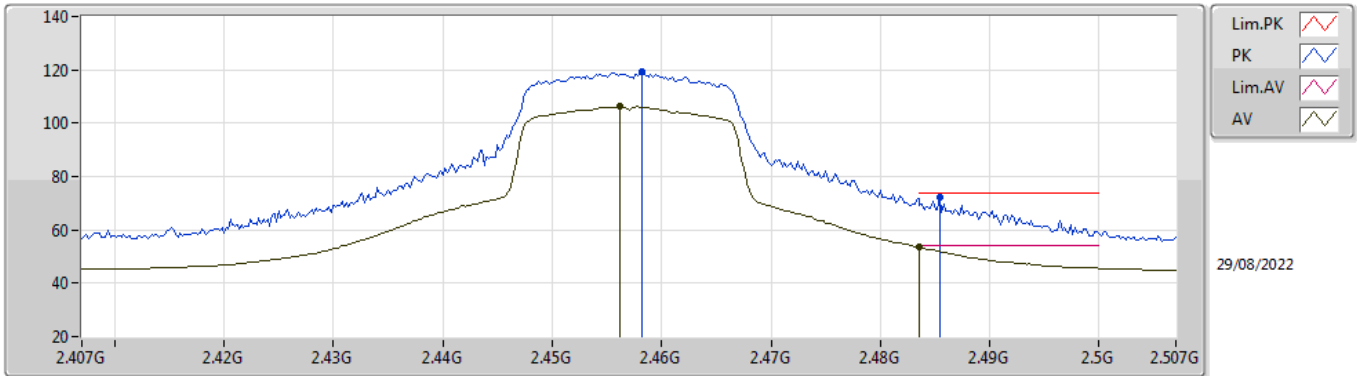


EUT_Z_2TX
Setting 50
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8698G	47.14	74.00	-26.86	42.84	3	Horizontal	17	1.25	-	31.40	5.40	32.50
AV	4.87434G	32.41	54.00	-21.59	28.11	3	Horizontal	17	1.25	-	31.40	5.40	32.50
PK	7.31346G	51.79	74.00	-22.21	41.82	3	Horizontal	292	1.14	-	36.70	6.71	33.44
AV	7.31212G	38.10	54.00	-15.90	28.13	3	Horizontal	292	1.14	-	36.70	6.71	33.44

802.11ax HEW20_Nss2,(MCS0)_2TX

2457MHz_TX

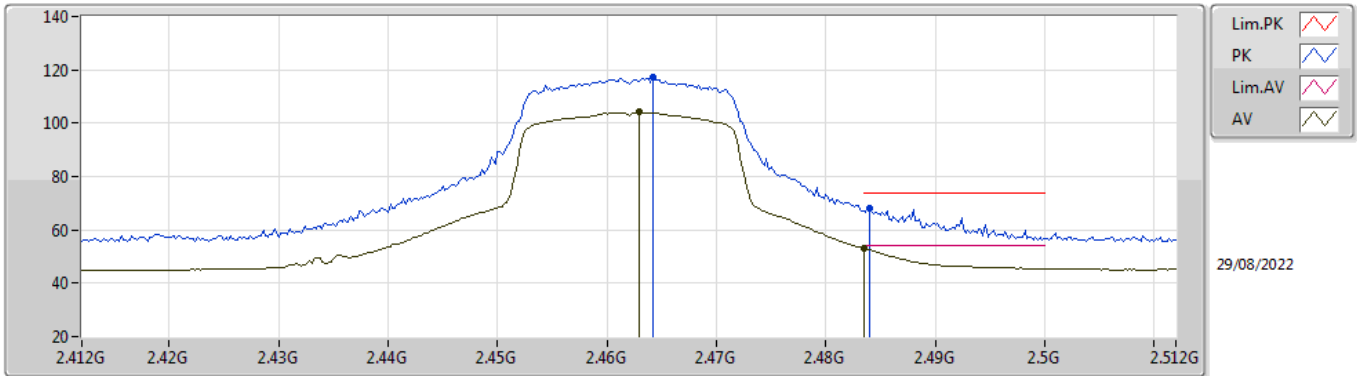


EUT_Z_2TX
Setting 42
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4582G	119.43	Inf	-Inf	87.93	3	Vertical	206	2.26	-	27.60	3.90	-
AV	2.4562G	106.29	Inf	-Inf	74.79	3	Vertical	206	2.26	-	27.60	3.90	-
PK	2.4854G	72.30	74.00	-1.70	40.80	3	Vertical	206	2.26	-	27.60	3.90	-
AV	2.4835G	53.52	54.00	-0.48	22.02	3	Vertical	206	2.26	-	27.60	3.90	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

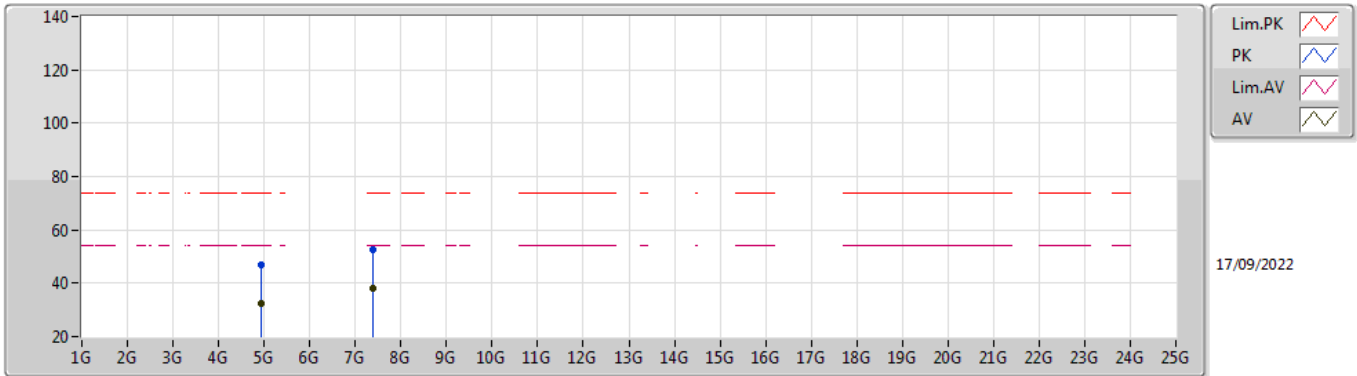


EUT_Z_2TX
 Setting 40
 06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4642G	117.10	Inf	-Inf	85.60	3	Vertical	333	1.35	-	27.60	3.90	-
AV	2.463G	104.09	Inf	-Inf	72.59	3	Vertical	333	1.35	-	27.60	3.90	-
PK	2.484G	68.00	74.00	-6.00	36.50	3	Vertical	333	1.35	-	27.60	3.90	-
AV	2.4835G	53.00	54.00	-1.00	21.50	3	Vertical	333	1.35	-	27.60	3.90	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

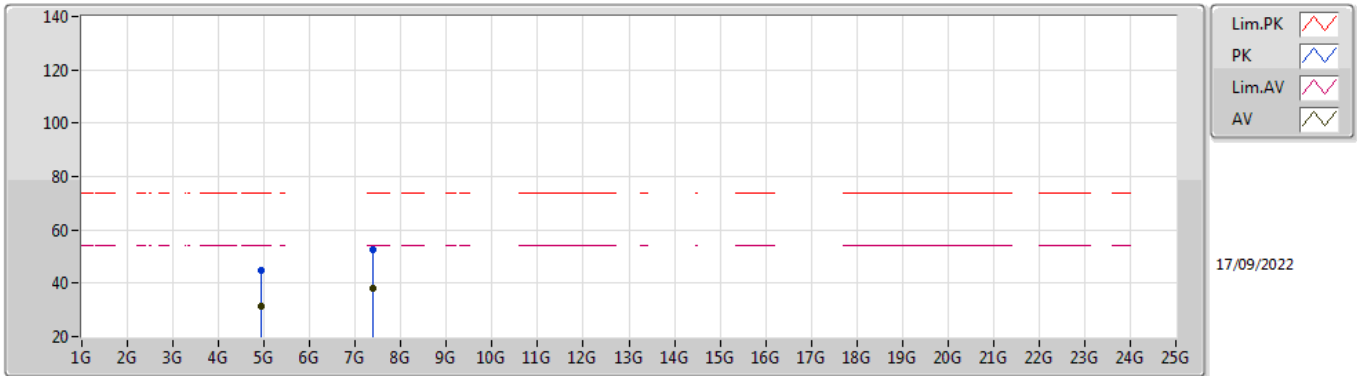


EUT_Z_2TX
Setting 40
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92174G	46.75	74.00	-27.25	42.39	3	Vertical	329	1.80	-	31.44	5.40	32.48
AV	4.92458G	32.47	54.00	-21.53	28.09	3	Vertical	329	1.80	-	31.45	5.40	32.47
PK	7.38656G	52.43	74.00	-21.57	42.47	3	Vertical	67	1.80	-	36.70	6.79	33.53
AV	7.38944G	38.30	54.00	-15.70	28.35	3	Vertical	67	1.80	-	36.70	6.79	33.54

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

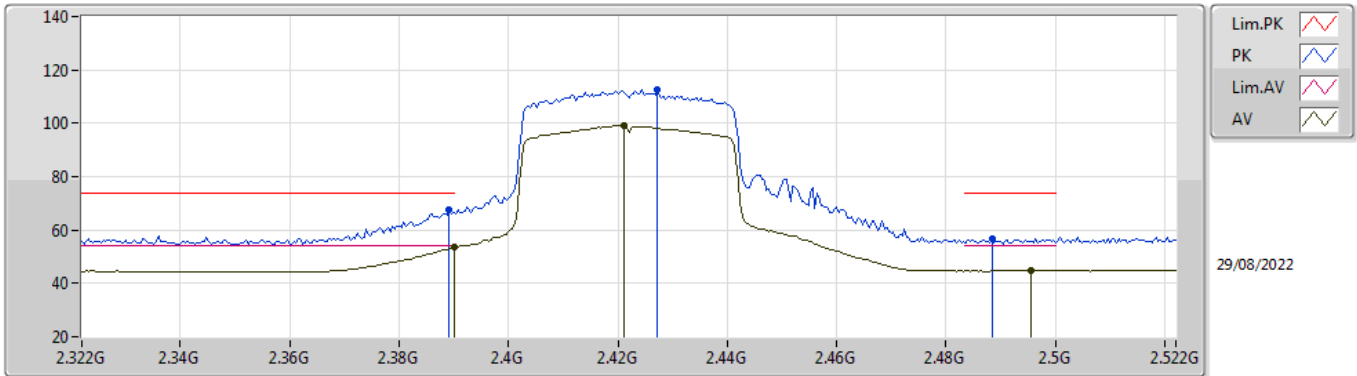


EUT_Z_2TX
Setting 40
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92878G	45.06	74.00	-28.94	40.67	3	Horizontal	92	1.80	-	31.46	5.40	32.47
AV	4.92514G	31.48	54.00	-22.52	27.10	3	Horizontal	92	1.80	-	31.45	5.40	32.47
PK	7.39062G	52.62	74.00	-21.38	42.67	3	Horizontal	144	1.26	-	36.70	6.79	33.54
AV	7.39024G	38.36	54.00	-15.64	28.41	3	Horizontal	144	1.26	-	36.70	6.79	33.54

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

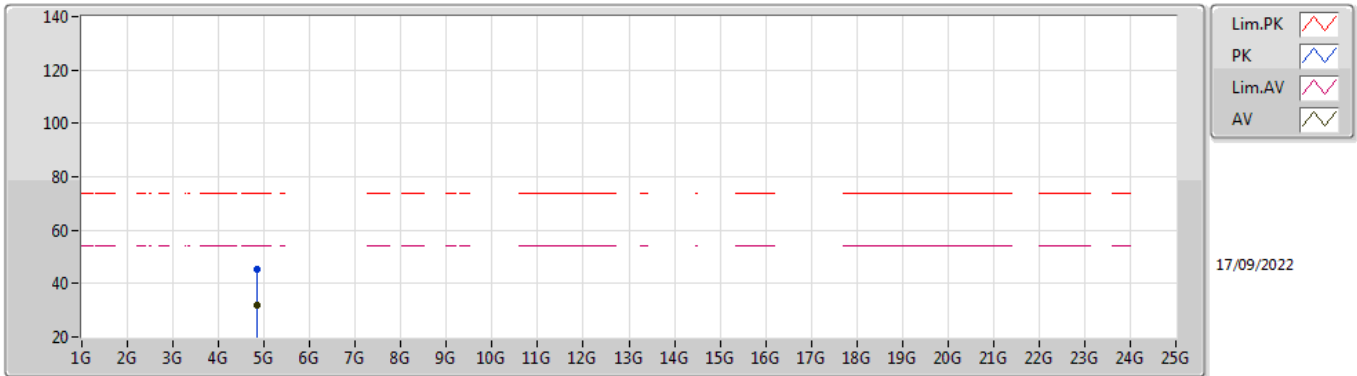


EUT_Z_2TX
Setting 35
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	67.52	74.00	-6.48	35.99	3	Vertical	212	2.60	-	27.64	3.89	-
AV	2.39G	53.42	54.00	-0.58	21.89	3	Vertical	212	2.60	-	27.64	3.89	-
PK	2.4272G	112.83	Inf	-Inf	81.33	3	Vertical	212	2.60	-	27.60	3.90	-
AV	2.4212G	99.09	Inf	-Inf	67.59	3	Vertical	212	2.60	-	27.60	3.90	-
PK	2.4884G	56.82	74.00	-17.18	25.32	3	Vertical	212	2.60	-	27.60	3.90	-
AV	2.4956G	44.75	54.00	-9.25	13.25	3	Vertical	212	2.60	-	27.60	3.90	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

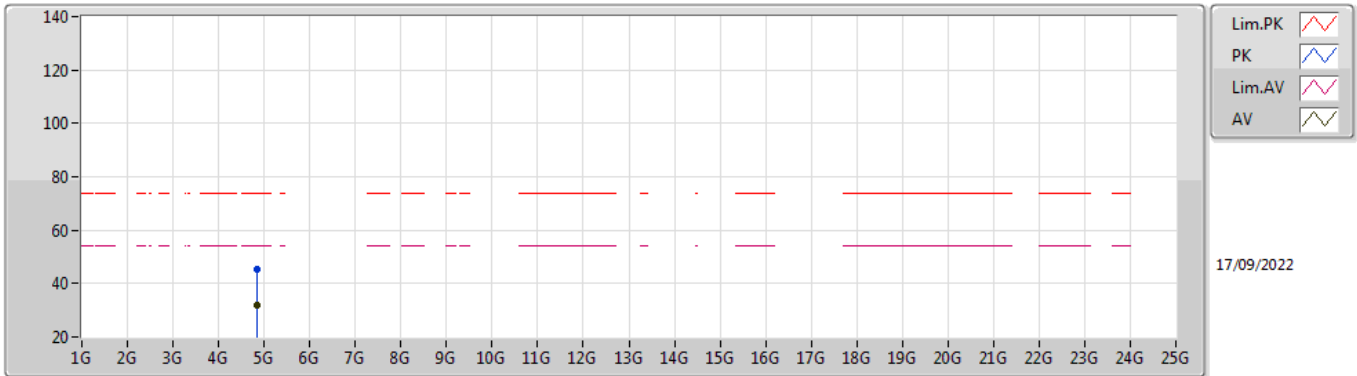


EUT Z_2TX
Setting 35
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84862G	45.19	74.00	-28.81	40.90	3	Vertical	131	2.35	-	31.40	5.40	32.51
AV	4.848G	31.73	54.00	-22.27	27.44	3	Vertical	131	2.35	-	31.40	5.40	32.51

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

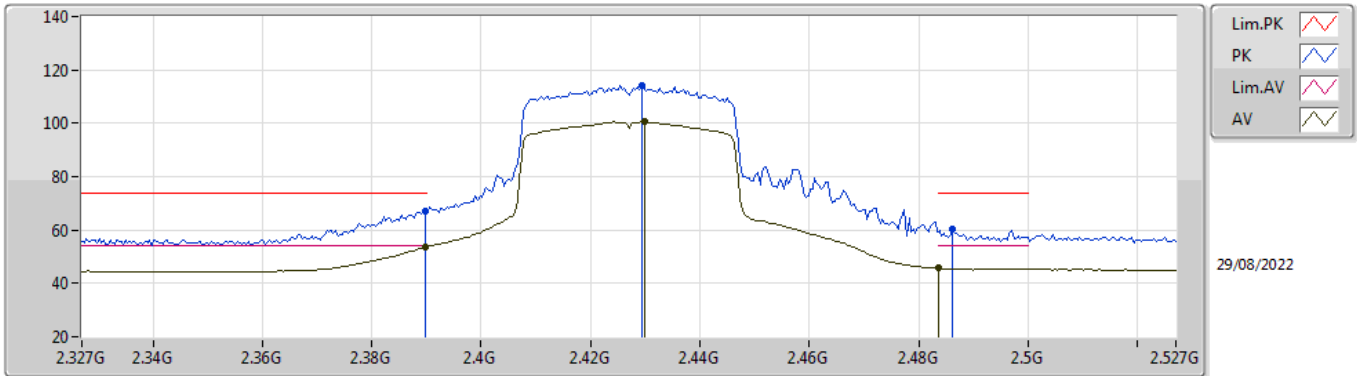


EUT_Z_2TX
Setting 35
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83936G	45.58	74.00	-28.42	41.31	3	Horizontal	24	2.81	-	31.38	5.40	32.51
AV	4.8481G	31.70	54.00	-22.30	27.41	3	Horizontal	24	2.81	-	31.40	5.40	32.51

802.11ax HEW40_Nss2,(MCS0)_2TX

2427MHz_TX

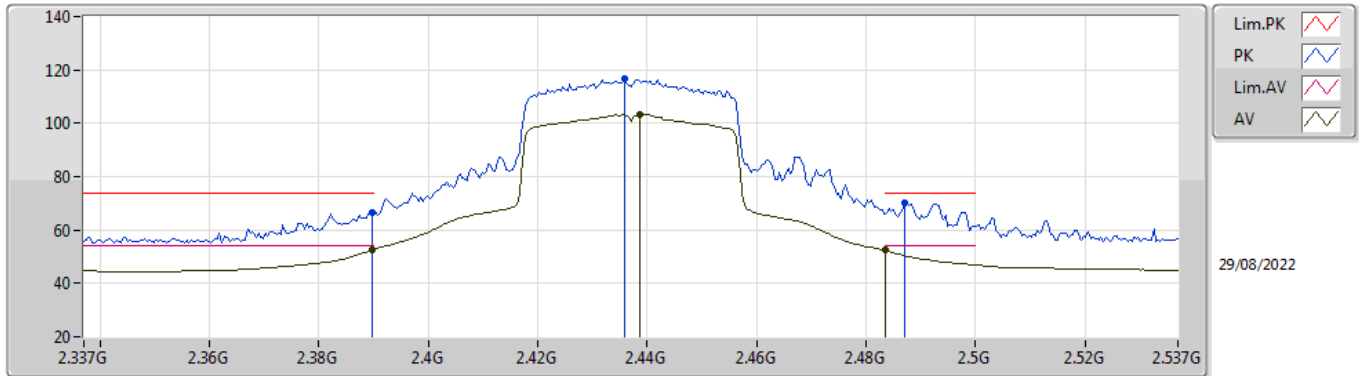


EUT_Z_2TX
Setting 38
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.27	74.00	-6.73	35.74	3	Vertical	333	1.80	-	27.64	3.89	-
AV	2.3898G	53.56	54.00	-0.44	22.03	3	Vertical	333	1.80	-	27.64	3.89	-
PK	2.4294G	114.28	Inf	-Inf	82.78	3	Vertical	333	1.80	-	27.60	3.90	-
AV	2.4298G	100.55	Inf	-Inf	69.05	3	Vertical	333	1.80	-	27.60	3.90	-
PK	2.4862G	60.40	74.00	-13.60	28.90	3	Vertical	333	1.80	-	27.60	3.90	-
AV	2.4835G	45.67	54.00	-8.33	14.17	3	Vertical	333	1.80	-	27.60	3.90	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

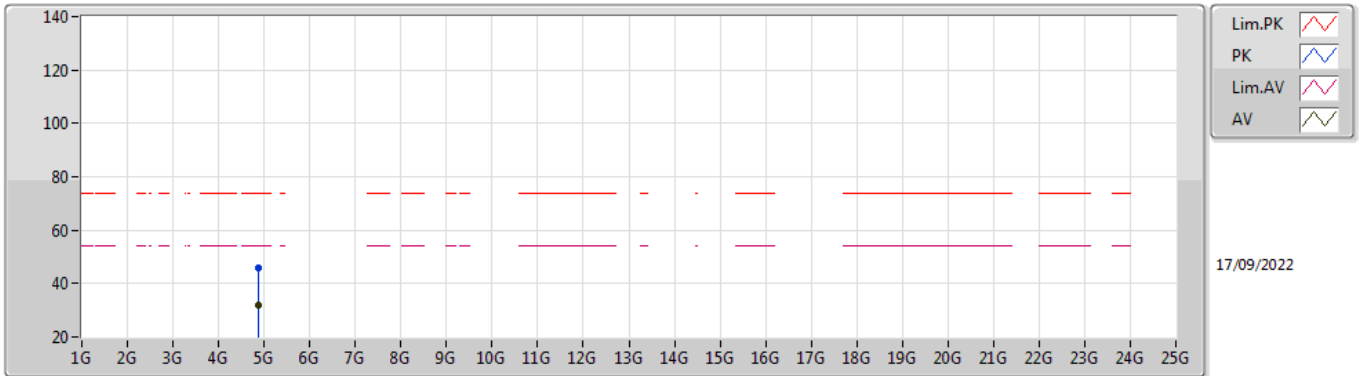


EUT_Z_2TX
Setting 42
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.39	74.00	-7.61	34.86	3	Vertical	341	2.88	-	27.64	3.89	-
AV	2.3898G	52.43	54.00	-1.57	20.90	3	Vertical	341	2.88	-	27.64	3.89	-
PK	2.4358G	116.54	Inf	-Inf	85.04	3	Vertical	341	2.88	-	27.60	3.90	-
AV	2.4386G	103.20	Inf	-Inf	71.70	3	Vertical	341	2.88	-	27.60	3.90	-
PK	2.487G	70.37	74.00	-3.63	38.87	3	Vertical	341	2.88	-	27.60	3.90	-
AV	2.4835G	52.34	54.00	-1.66	20.84	3	Vertical	341	2.88	-	27.60	3.90	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

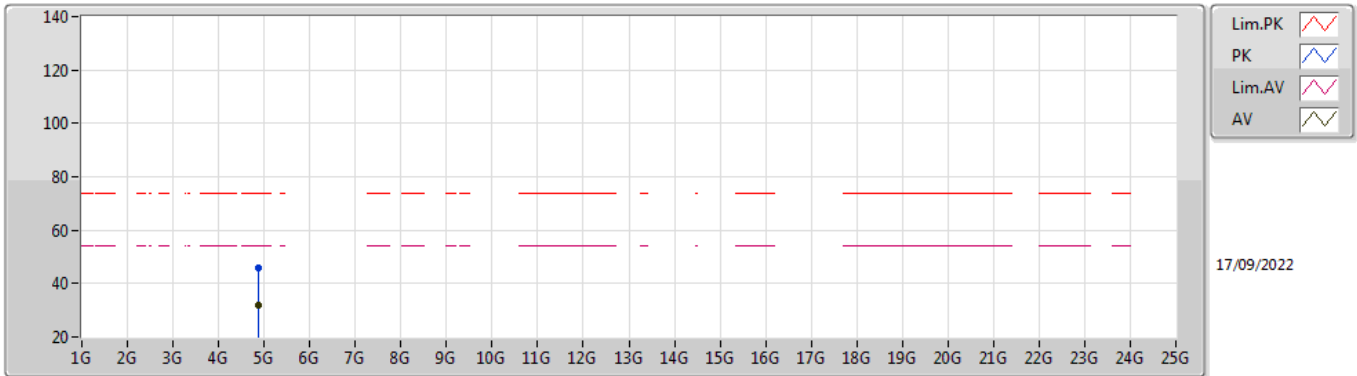


EUT Z_2TX
Setting 42
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87404G	45.94	74.00	-28.06	41.64	3	Vertical	106	1.39	-	31.40	5.40	32.50
AV	4.87828G	31.84	54.00	-22.16	27.54	3	Vertical	106	1.39	-	31.40	5.40	32.50

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

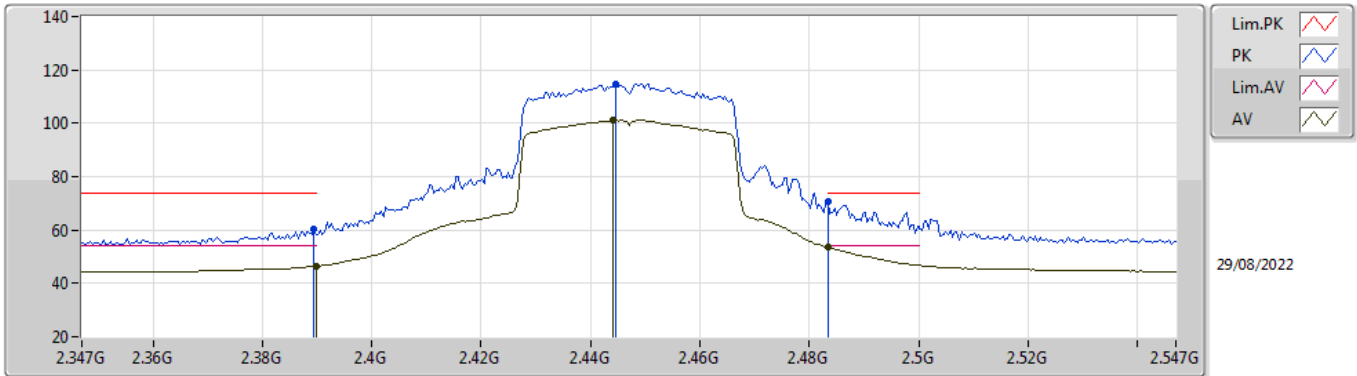


EUT_Z_2TX
Setting 42
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87666G	46.10	74.00	-27.90	41.80	3	Horizontal	4	2.66	-	31.40	5.40	32.50
AV	4.87846G	31.78	54.00	-22.22	27.48	3	Horizontal	4	2.66	-	31.40	5.40	32.50

802.11ax HEW40_Nss2,(MCS0)_2TX

2447MHz_TX

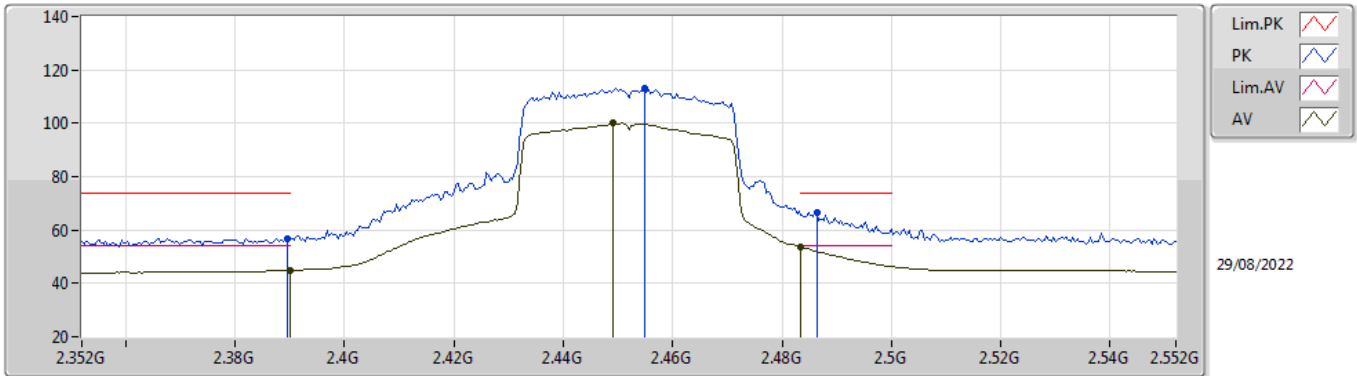


EUT_Z_2TX
Setting 38
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	60.59	74.00	-13.41	29.06	3	Vertical	19	1.17	-	27.64	3.89	-
AV	2.3898G	46.37	54.00	-7.63	14.84	3	Vertical	19	1.17	-	27.64	3.89	-
PK	2.4446G	114.85	Inf	-Inf	83.35	3	Vertical	19	1.17	-	27.60	3.90	-
AV	2.4442G	101.07	Inf	-Inf	69.57	3	Vertical	19	1.17	-	27.60	3.90	-
PK	2.4835G	70.65	74.00	-3.35	39.15	3	Vertical	19	1.17	-	27.60	3.90	-
AV	2.4835G	53.44	54.00	-0.56	21.94	3	Vertical	19	1.17	-	27.60	3.90	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX

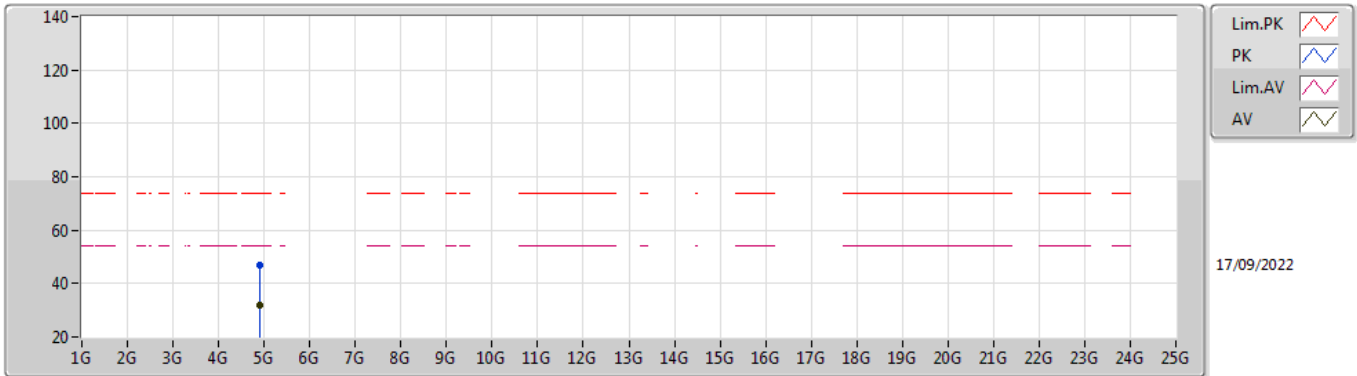


EUT_Z_2TX
Setting 36
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	56.90	74.00	-17.10	25.37	3	Vertical	207	2.29	-	27.64	3.89	-
AV	2.39G	44.96	54.00	-9.04	13.43	3	Vertical	207	2.29	-	27.64	3.89	-
PK	2.4548G	113.22	Inf	-Inf	81.72	3	Vertical	207	2.29	-	27.60	3.90	-
AV	2.4492G	100.00	Inf	-Inf	68.50	3	Vertical	207	2.29	-	27.60	3.90	-
PK	2.4864G	66.58	74.00	-7.42	35.08	3	Vertical	207	2.29	-	27.60	3.90	-
AV	2.4835G	53.39	54.00	-0.61	21.89	3	Vertical	207	2.29	-	27.60	3.90	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX

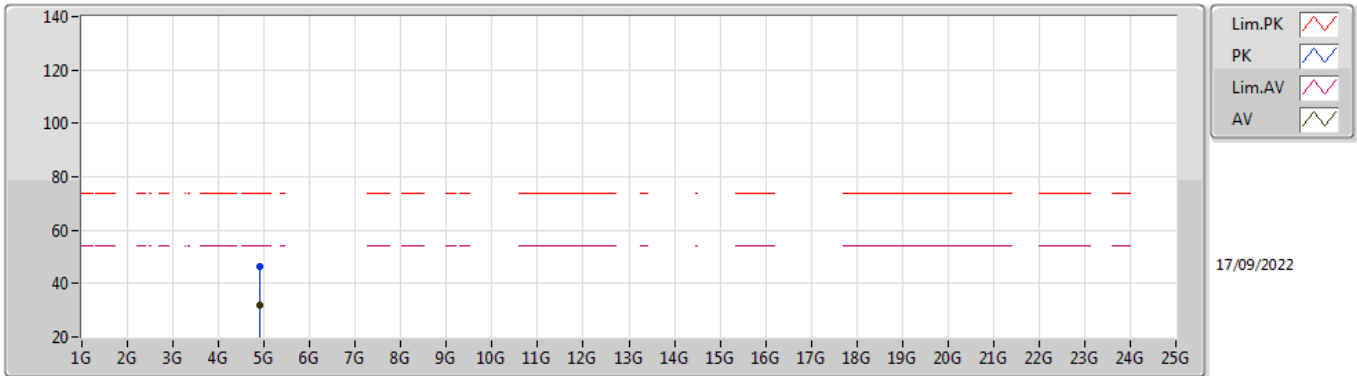


EUT_Z_2TX
Setting 36
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8999G	46.84	74.00	-27.16	42.53	3	Vertical	89	1.35	-	31.40	5.40	32.49
AV	4.90798G	31.77	54.00	-22.23	27.43	3	Vertical	89	1.35	-	31.42	5.40	32.48

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX



EUT_Z_2TX
Setting 36
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90038G	46.18	74.00	-27.82	41.87	3	Horizontal	243	1.33	-	31.40	5.40	32.49
AV	4.90642G	31.83	54.00	-22.17	27.50	3	Horizontal	243	1.33	-	31.41	5.40	32.48

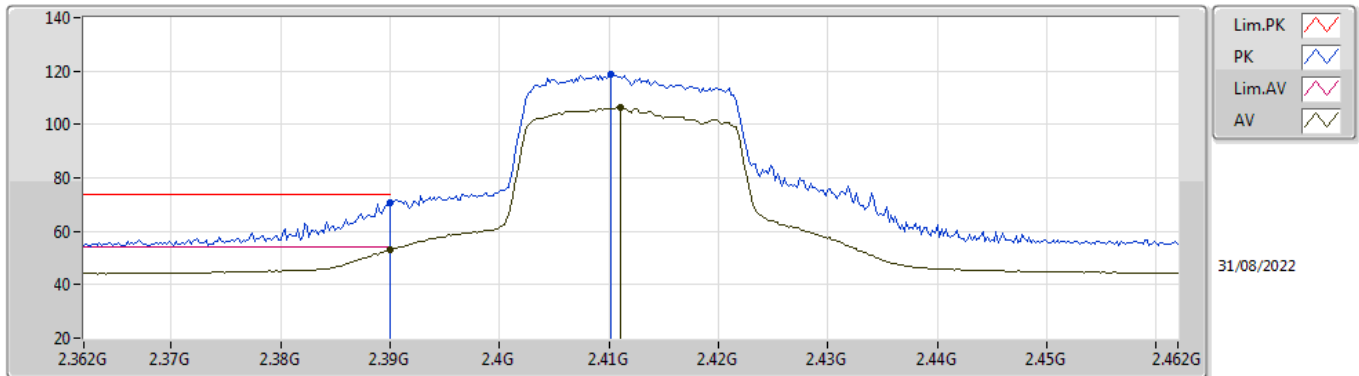


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	PK	2.4842G	73.96	74.00	-0.04	3	Vertical	195.5	1.80	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

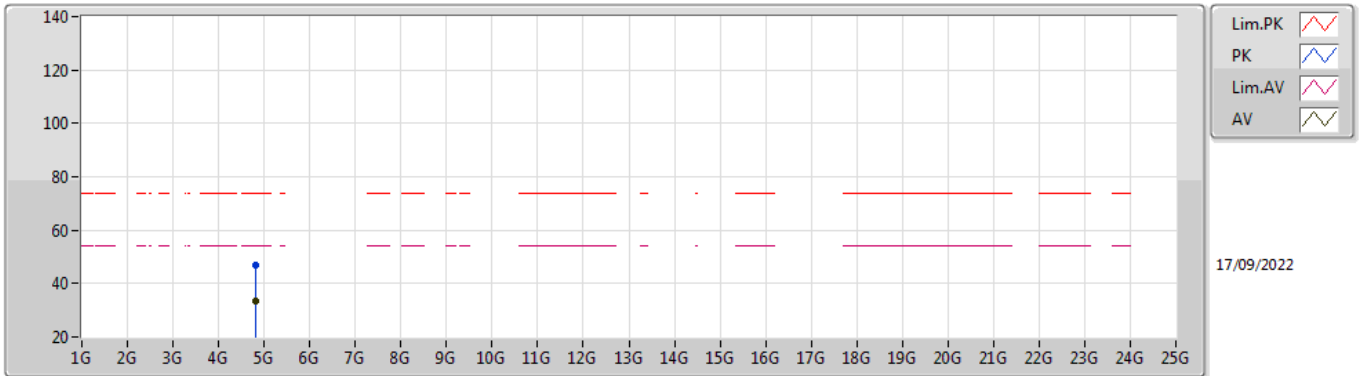


EUT_Z_2TX
Setting 38
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	70.48	74.00	-3.52	38.95	3	Vertical	228.4	2.61	-	27.64	3.89	-
AV	2.39G	52.96	54.00	-1.04	21.43	3	Vertical	228.4	2.61	-	27.64	3.89	-
PK	2.4102G	118.80	Inf	-Inf	87.30	3	Vertical	228.4	2.61	-	27.60	3.90	-
AV	2.411G	106.59	Inf	-Inf	75.09	3	Vertical	228.4	2.61	-	27.60	3.90	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

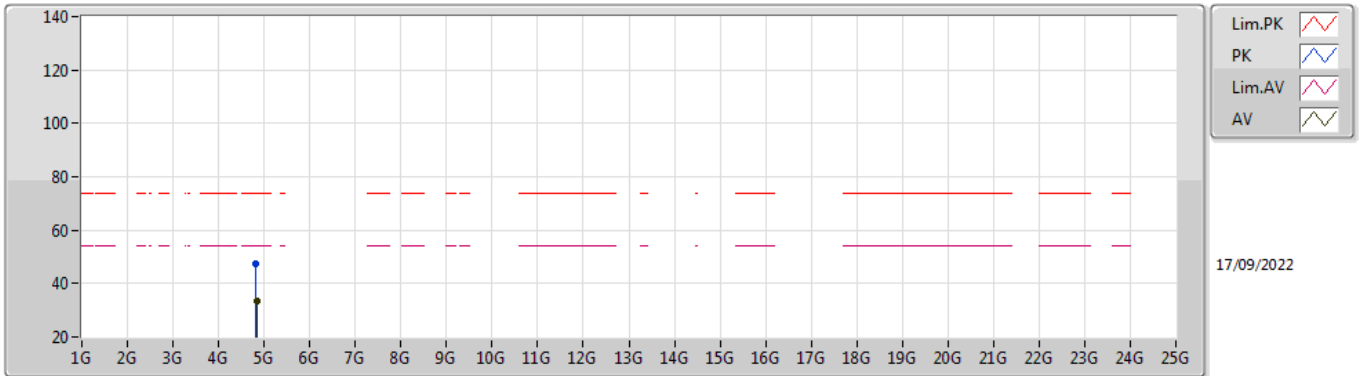


EUT Z_2TX
Setting 38
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82236G	46.86	74.00	-27.14	42.64	3	Vertical	17	1.62	-	31.34	5.40	32.52
AV	4.82506G	33.22	54.00	-20.78	28.99	3	Vertical	17	1.62	-	31.35	5.40	32.52

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

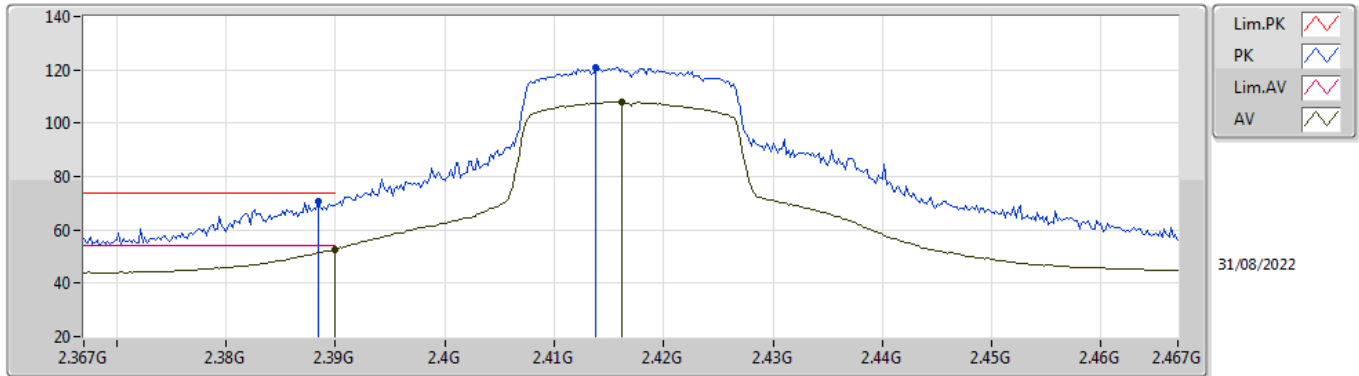


EUT_Z_2TX
Setting 38
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.81948G	47.50	74.00	-26.50	43.28	3	Horizontal	119	2.34	-	31.34	5.40	32.52
AV	4.82852G	33.22	54.00	-20.78	28.98	3	Horizontal	119	2.34	-	31.36	5.40	32.52

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

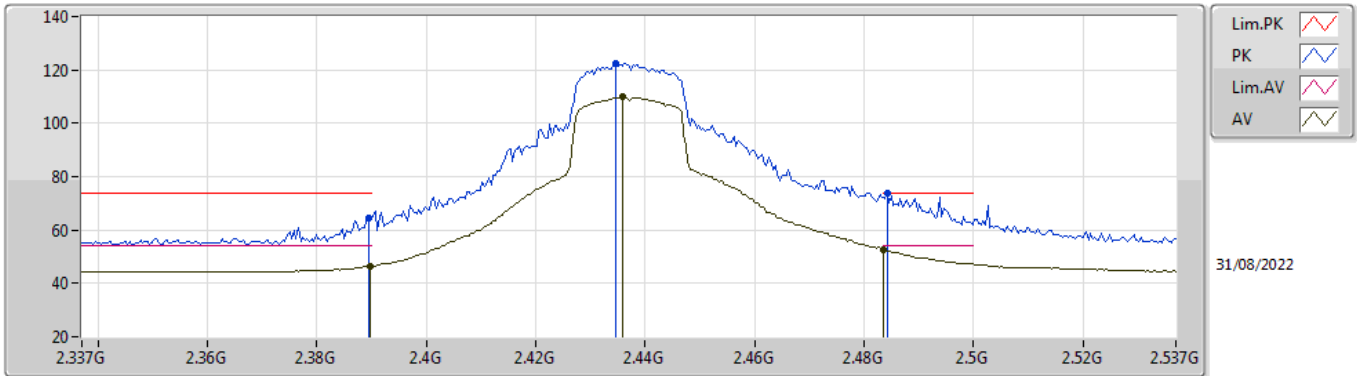


EUT_Z_2TX
Setting 43
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	70.52	74.00	-3.48	38.98	3	Vertical	242	1.80	-	27.65	3.89	-
AV	2.39G	52.65	54.00	-1.35	21.12	3	Vertical	242	1.80	-	27.64	3.89	-
PK	2.4138G	120.81	Inf	-Inf	89.31	3	Vertical	242	1.80	-	27.60	3.90	-
AV	2.4162G	108.09	Inf	-Inf	76.59	3	Vertical	242	1.80	-	27.60	3.90	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

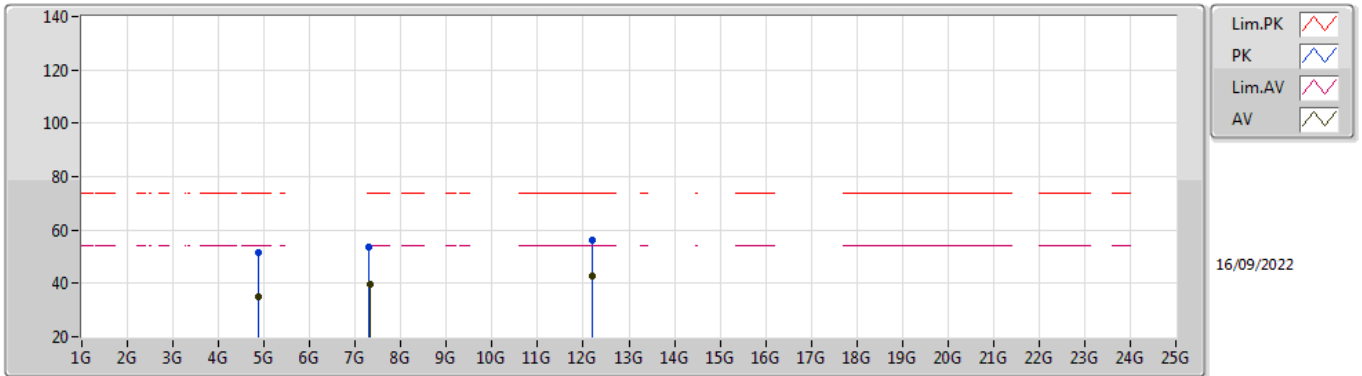


EUT_Z_2TX
Setting 48
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	64.66	74.00	-9.34	33.13	3	Vertical	195.5	1.80	-	27.64	3.89	-
AV	2.3898G	46.40	54.00	-7.60	14.87	3	Vertical	195.5	1.80	-	27.64	3.89	-
PK	2.4346G	122.50	Inf	-Inf	91.00	3	Vertical	195.5	1.80	-	27.60	3.90	-
AV	2.4358G	109.85	Inf	-Inf	78.35	3	Vertical	195.5	1.80	-	27.60	3.90	-
PK	2.4842G	73.96	74.00	-0.04	42.46	3	Vertical	195.5	1.80	-	27.60	3.90	-
AV	2.4835G	52.84	54.00	-1.16	21.34	3	Vertical	195.5	1.80	-	27.60	3.90	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

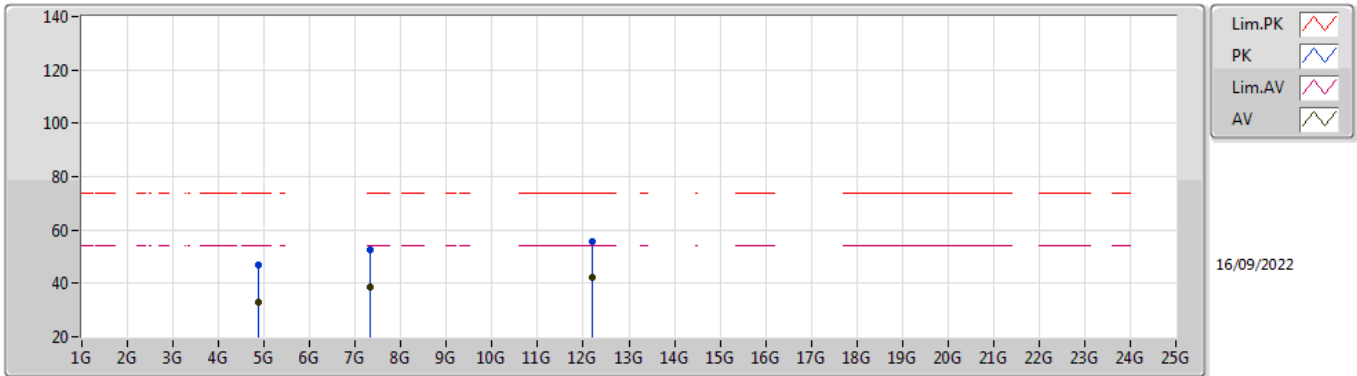


EUT_Z_2TX
Setting 48
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8737G	51.45	74.00	-22.55	47.15	3	Vertical	330	1.80	-	31.40	5.40	32.50
AV	4.87526G	35.08	54.00	-18.92	30.78	3	Vertical	330	1.80	-	31.40	5.40	32.50
PK	7.30788G	53.37	74.00	-20.63	43.39	3	Vertical	126	2.43	-	36.70	6.71	33.43
AV	7.314G	39.57	54.00	-14.43	29.60	3	Vertical	126	2.43	-	36.70	6.71	33.44
PK	12.1859G	56.19	74.00	-17.81	42.22	3	Vertical	289	1.86	-	39.11	9.55	34.69
AV	12.19778G	42.83	54.00	-11.17	28.87	3	Vertical	289	1.86	-	39.10	9.55	34.69

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

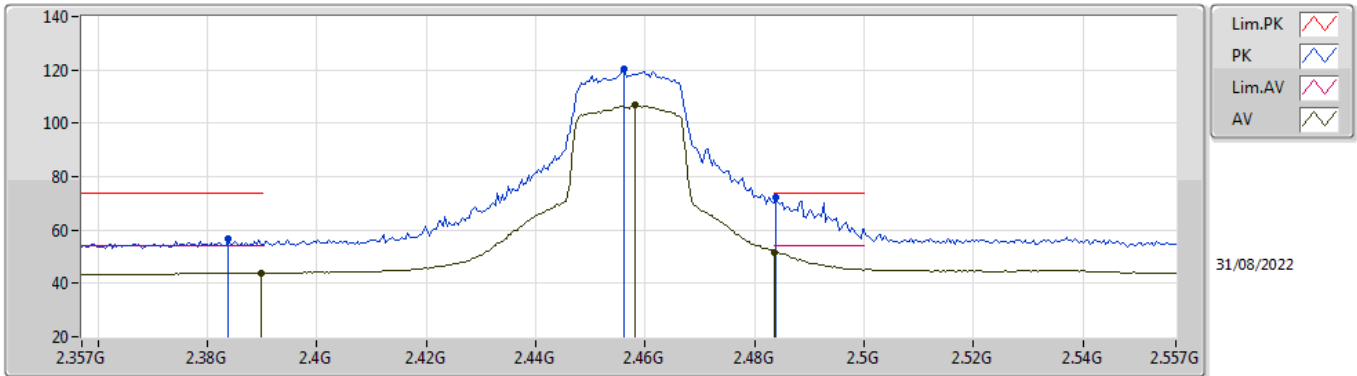


EUT_Z_2TX
Setting 48
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86464G	46.75	74.00	-27.25	42.45	3	Horizontal	141	3.00	-	31.40	5.40	32.50
AV	4.87886G	33.01	54.00	-20.99	28.71	3	Horizontal	141	3.00	-	31.40	5.40	32.50
PK	7.31916G	52.61	74.00	-21.39	42.64	3	Horizontal	129	1.99	-	36.70	6.72	33.45
AV	7.3137G	38.84	54.00	-15.16	28.87	3	Horizontal	129	1.99	-	36.70	6.71	33.44
PK	12.1976G	55.71	74.00	-18.29	41.75	3	Horizontal	231	2.11	-	39.10	9.55	34.69
AV	12.19994G	42.34	54.00	-11.66	28.38	3	Horizontal	231	2.11	-	39.10	9.55	34.69

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

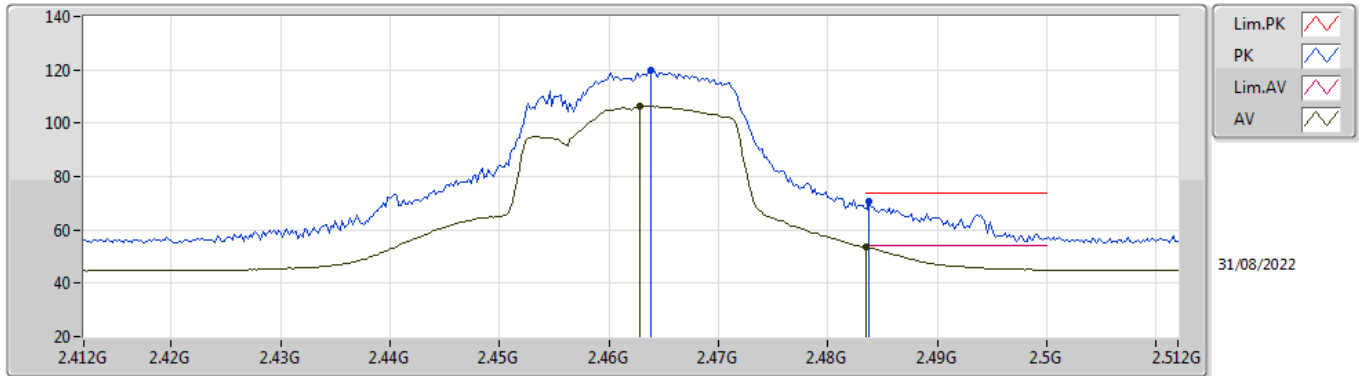


EUT_Z_2TX
Setting 42
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3838G	56.58	74.00	-17.42	25.04	3	Vertical	95.8	1.80	-	27.66	3.88	-
AV	2.3898G	44.01	54.00	-9.99	12.48	3	Vertical	95.8	1.80	-	27.64	3.89	-
PK	2.4562G	120.09	Inf	-Inf	88.59	3	Vertical	95.8	1.80	-	27.60	3.90	-
AV	2.4582G	106.79	Inf	-Inf	75.29	3	Vertical	95.8	1.80	-	27.60	3.90	-
PK	2.4838G	72.42	74.00	-1.58	40.92	3	Vertical	95.8	1.80	-	27.60	3.90	-
AV	2.4835G	51.71	54.00	-2.29	20.21	3	Vertical	95.8	1.80	-	27.60	3.90	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

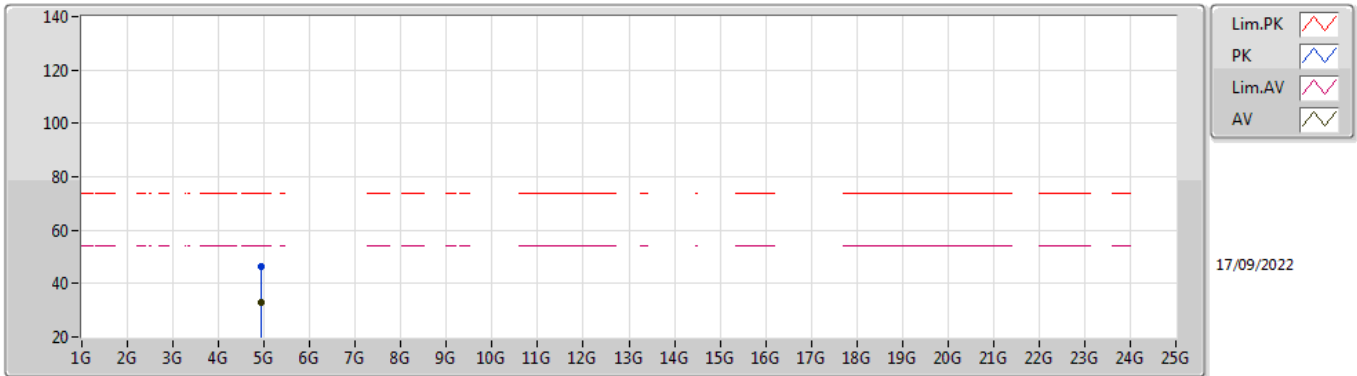


EUT_Z_2TX
Setting 39
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4638G	119.68	Inf	-Inf	88.18	3	Vertical	205.8	1.80	-	27.60	3.90	-
AV	2.4628G	106.34	Inf	-Inf	74.84	3	Vertical	205.8	1.80	-	27.60	3.90	-
PK	2.4838G	70.62	74.00	-3.38	39.12	3	Vertical	205.8	1.80	-	27.60	3.90	-
AV	2.4835G	53.54	54.00	-0.46	22.04	3	Vertical	205.8	1.80	-	27.60	3.90	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

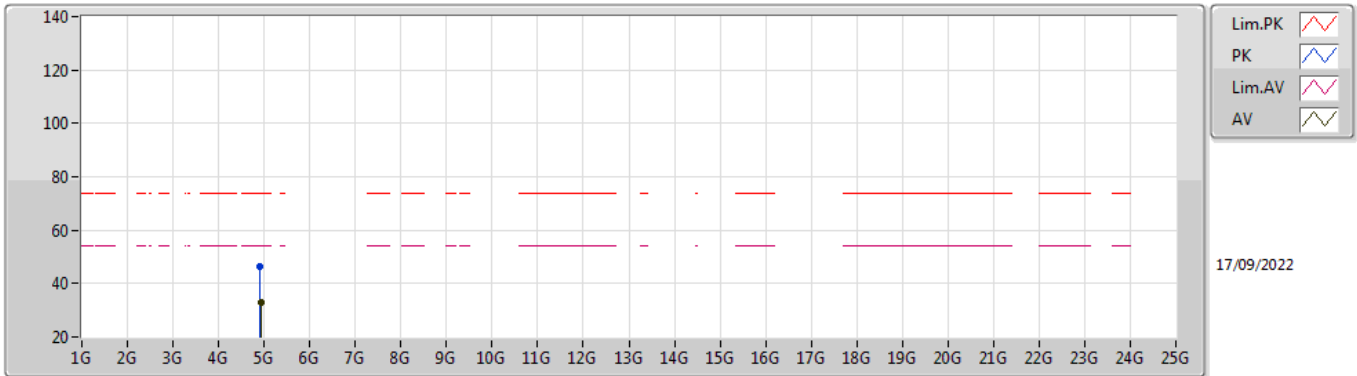


EUT_Z_2TX
Setting 39
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92736G	46.60	74.00	-27.40	42.22	3	Vertical	70	1.06	-	31.45	5.40	32.47
AV	4.91942G	32.90	54.00	-21.10	28.54	3	Vertical	70	1.06	-	31.44	5.40	32.48

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

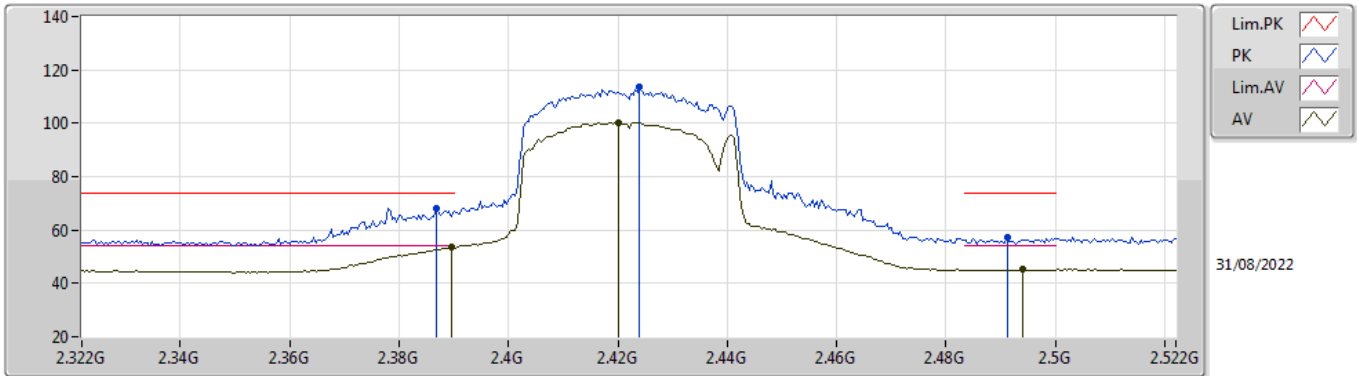


EUT Z_2TX
Setting 39
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91908G	46.26	74.00	-27.74	41.90	3	Horizontal	309	1.57	-	31.44	5.40	32.48
AV	4.91972G	32.91	54.00	-21.09	28.55	3	Horizontal	309	1.57	-	31.44	5.40	32.48

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

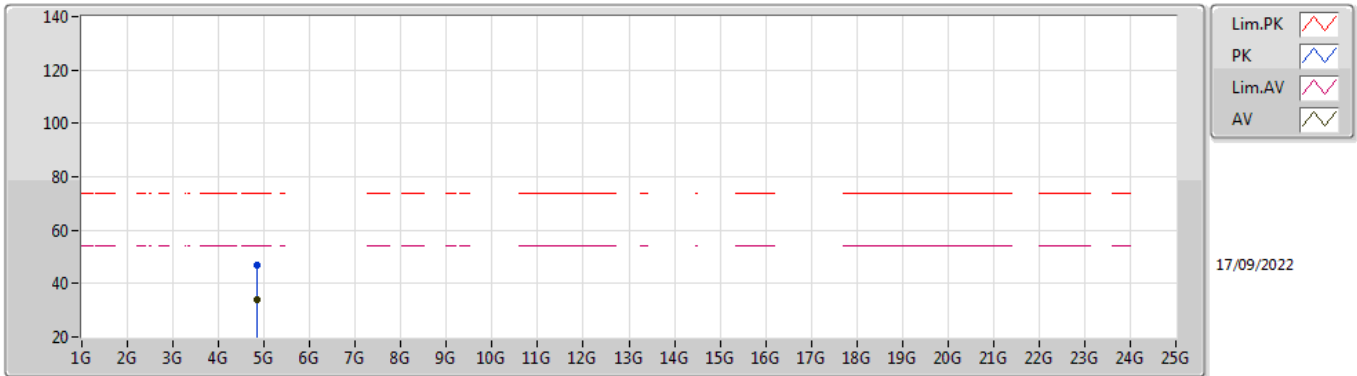


EUT_Z_2TX
Setting 36
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3868G	68.26	74.00	-5.74	36.72	3	Vertical	335.2	1.80	-	27.65	3.89	-
AV	2.3896G	53.63	54.00	-0.37	22.10	3	Vertical	335.2	1.80	-	27.64	3.89	-
PK	2.424G	113.51	Inf	-Inf	82.01	3	Vertical	335.2	1.80	-	27.60	3.90	-
AV	2.42G	100.35	Inf	-Inf	68.85	3	Vertical	335.2	1.80	-	27.60	3.90	-
PK	2.4912G	57.22	74.00	-16.78	25.72	3	Vertical	335.2	1.80	-	27.60	3.90	-
AV	2.494G	45.12	54.00	-8.88	13.62	3	Vertical	335.2	1.80	-	27.60	3.90	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

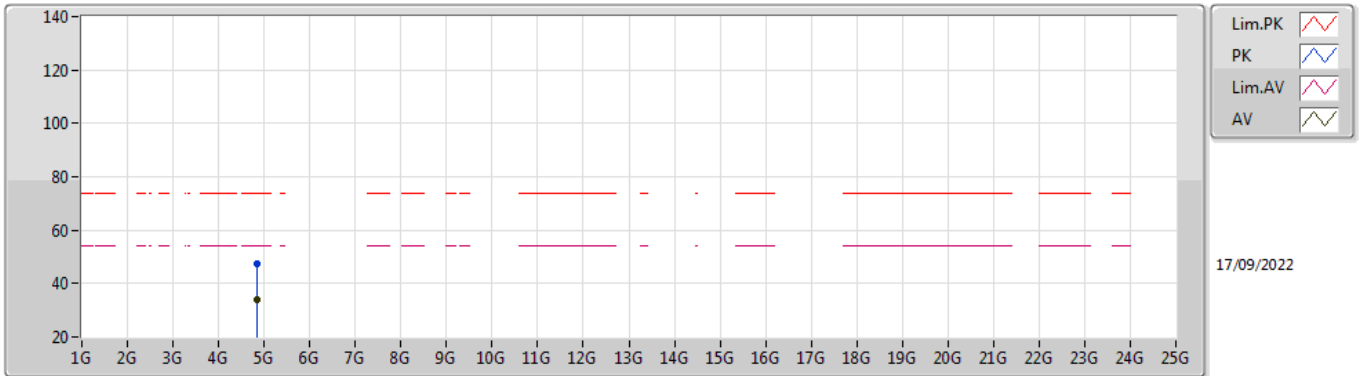


EUT_Z_2TX
Setting 36
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84258G	46.67	74.00	-27.33	42.39	3	Vertical	16	2.27	-	31.39	5.40	32.51
AV	4.8406G	33.77	54.00	-20.23	29.50	3	Vertical	16	2.27	-	31.38	5.40	32.51

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

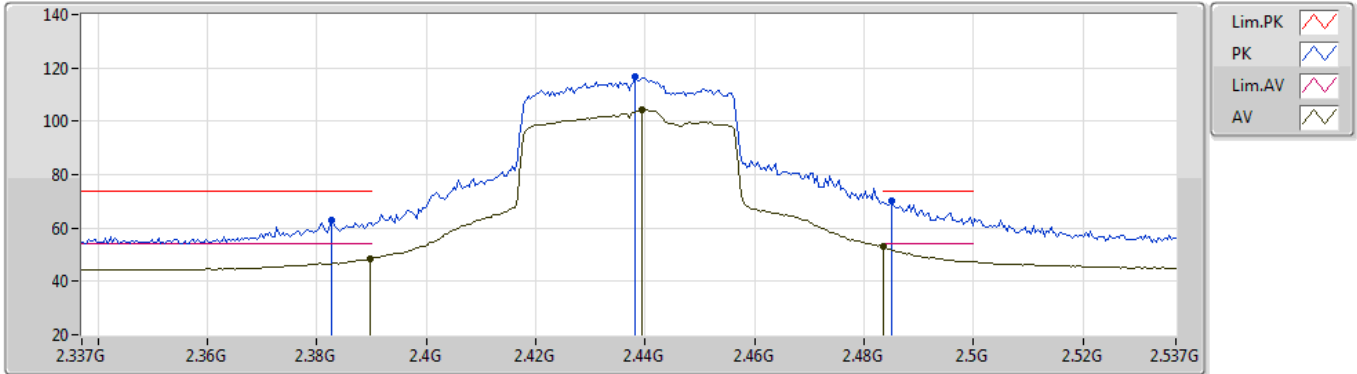


EUT Z_2TX
Setting 36
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84556G	47.54	74.00	-26.46	43.26	3	Horizontal	41	2.05	-	31.39	5.40	32.51
AV	4.84036G	33.75	54.00	-20.25	29.48	3	Horizontal	41	2.05	-	31.38	5.40	32.51

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

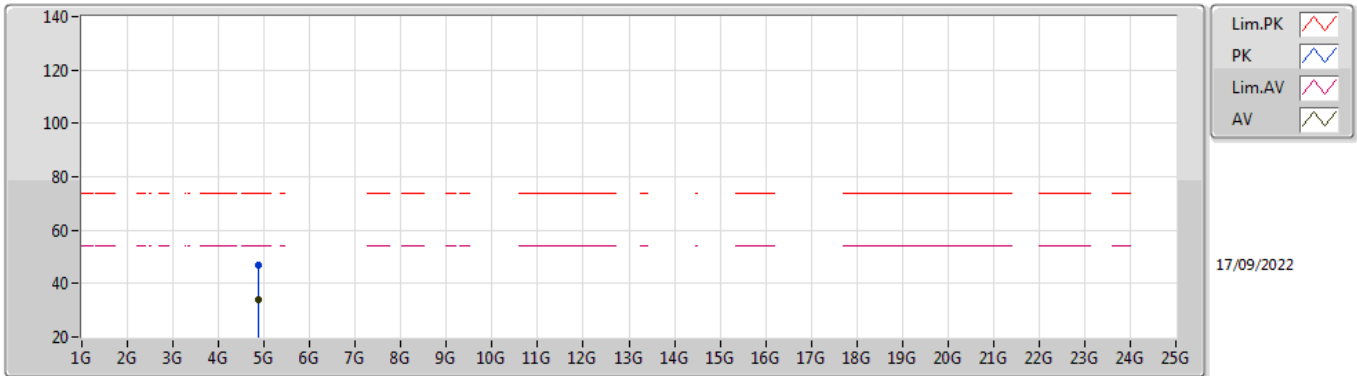


EUT_Z_2TX
Setting 41
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3826G	63.02	74.00	-10.98	31.47	3	Vertical	327	1.80	-	27.67	3.88	-
AV	2.3898G	48.38	54.00	-5.62	16.85	3	Vertical	327	1.80	-	27.64	3.89	-
PK	2.4382G	116.47	Inf	-Inf	84.97	3	Vertical	327	1.80	-	27.60	3.90	-
AV	2.4394G	104.19	Inf	-Inf	72.69	3	Vertical	327	1.80	-	27.60	3.90	-
PK	2.485G	70.33	74.00	-3.67	38.83	3	Vertical	327	1.80	-	27.60	3.90	-
AV	2.4835G	53.07	54.00	-0.93	21.57	3	Vertical	327	1.80	-	27.60	3.90	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

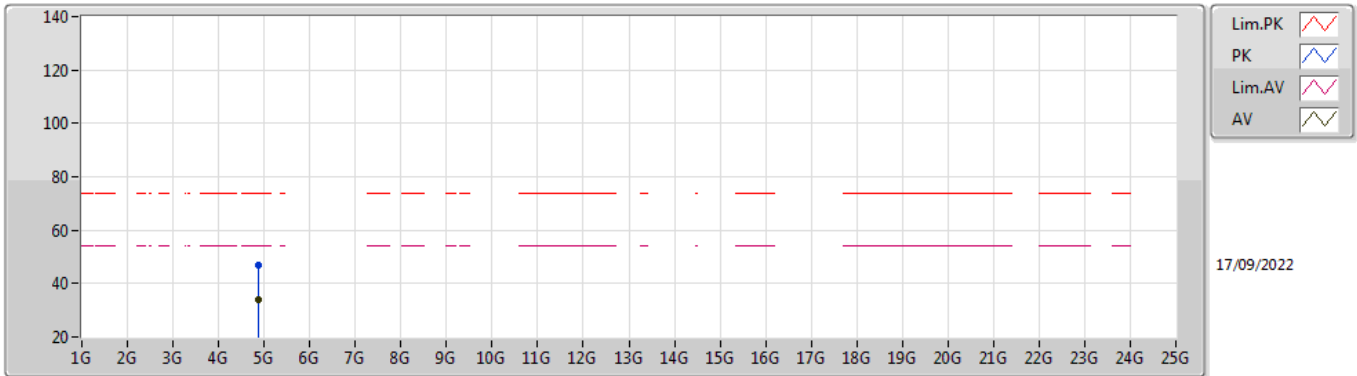


EUT_Z_2TX
Setting 41
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86916G	46.88	74.00	-27.12	42.58	3	Vertical	97	2.65	-	31.40	5.40	32.50
AV	4.87872G	33.77	54.00	-20.23	29.47	3	Vertical	97	2.65	-	31.40	5.40	32.50

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

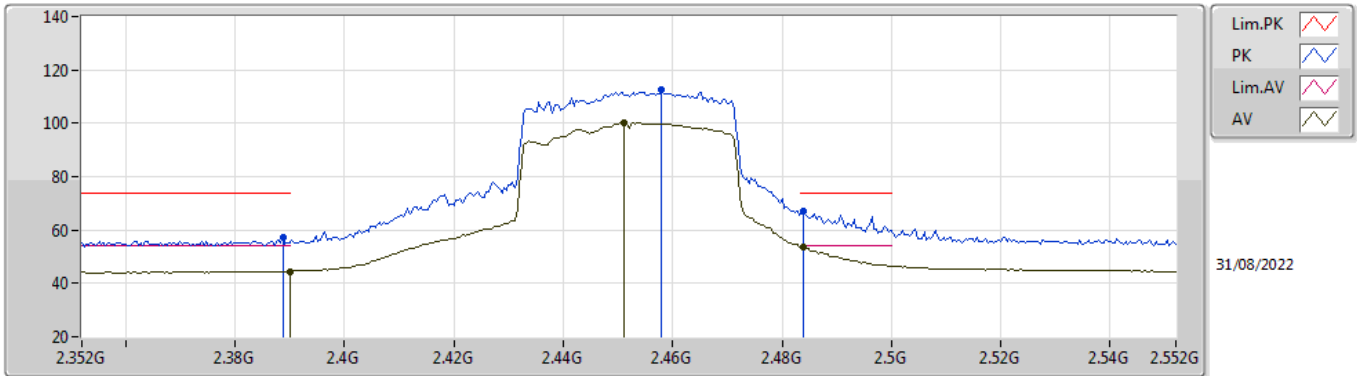


EUT Z_2TX
Setting 41
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87802G	46.71	74.00	-27.29	42.41	3	Horizontal	198	1.22	-	31.40	5.40	32.50
AV	4.87274G	33.88	54.00	-20.12	29.58	3	Horizontal	198	1.22	-	31.40	5.40	32.50

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

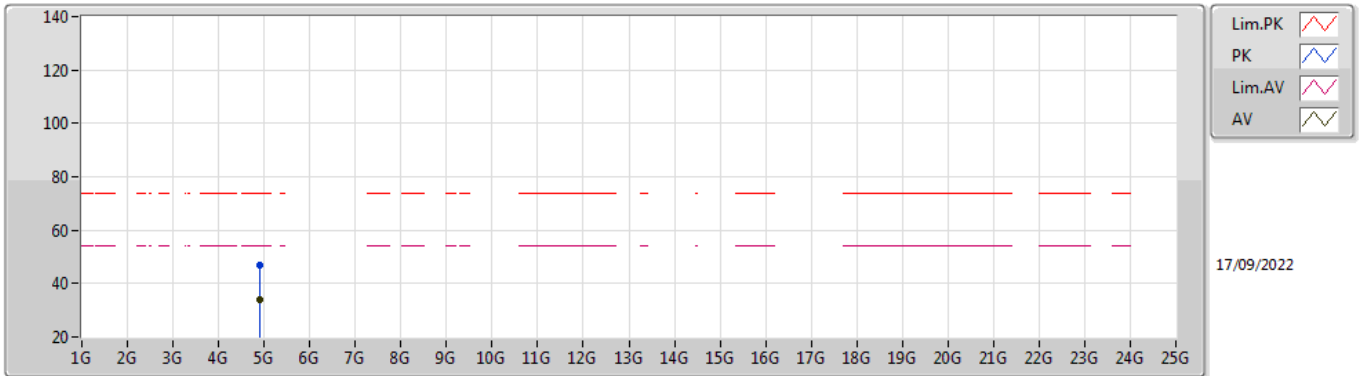


EUT_Z_2TX
Setting 36
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	56.99	74.00	-17.01	25.46	3	Vertical	335.9	1.80	-	27.64	3.89	-
AV	2.39G	44.56	54.00	-9.44	13.03	3	Vertical	335.9	1.80	-	27.64	3.89	-
PK	2.458G	112.44	Inf	-Inf	80.94	3	Vertical	335.9	1.80	-	27.60	3.90	-
AV	2.4512G	100.13	Inf	-Inf	68.63	3	Vertical	335.9	1.80	-	27.60	3.90	-
PK	2.484G	67.18	74.00	-6.82	35.68	3	Vertical	335.9	1.80	-	27.60	3.90	-
AV	2.484G	53.51	54.00	-0.49	22.01	3	Vertical	335.9	1.80	-	27.60	3.90	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

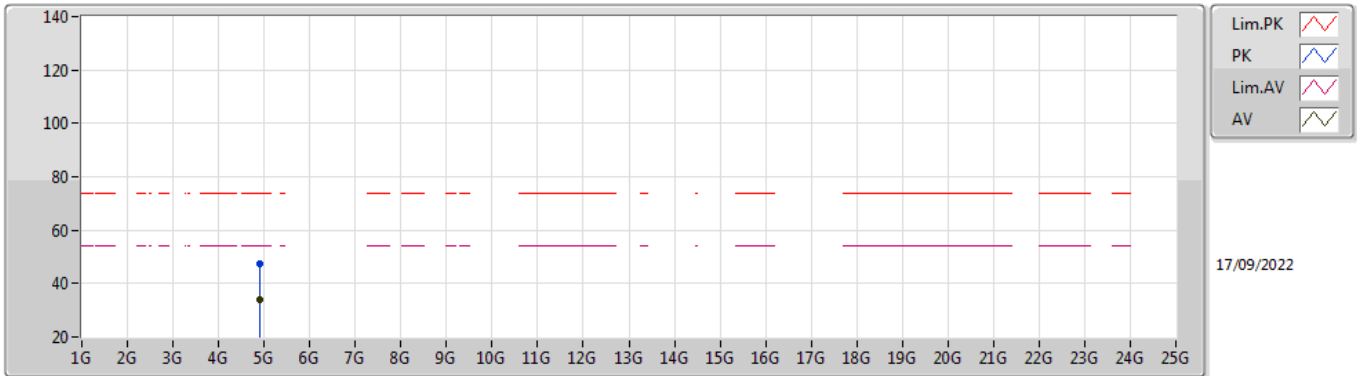


EUT_Z_2TX
Setting 36
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.907G	46.79	74.00	-27.21	42.46	3	Vertical	290	2.68	-	31.41	5.40	32.48
AV	4.9015G	33.94	54.00	-20.06	29.63	3	Vertical	290	2.68	-	31.40	5.40	32.49

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



EUT_Z_2TX
Setting 36
06-E-S-5

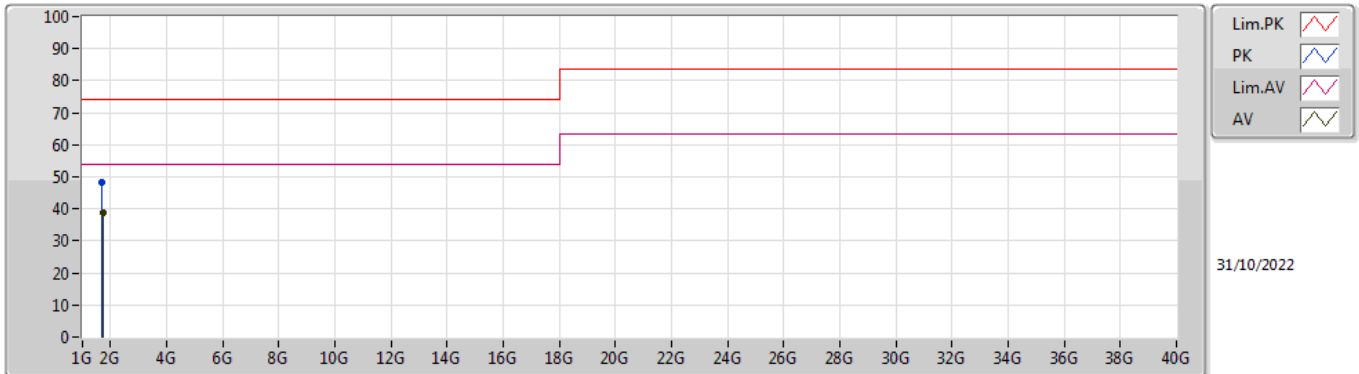
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90124G	47.34	74.00	-26.66	43.03	3	Horizontal	340	2.80	-	31.40	5.40	32.49
AV	4.90832G	33.81	54.00	-20.19	29.47	3	Horizontal	340	2.80	-	31.42	5.40	32.48



Summary

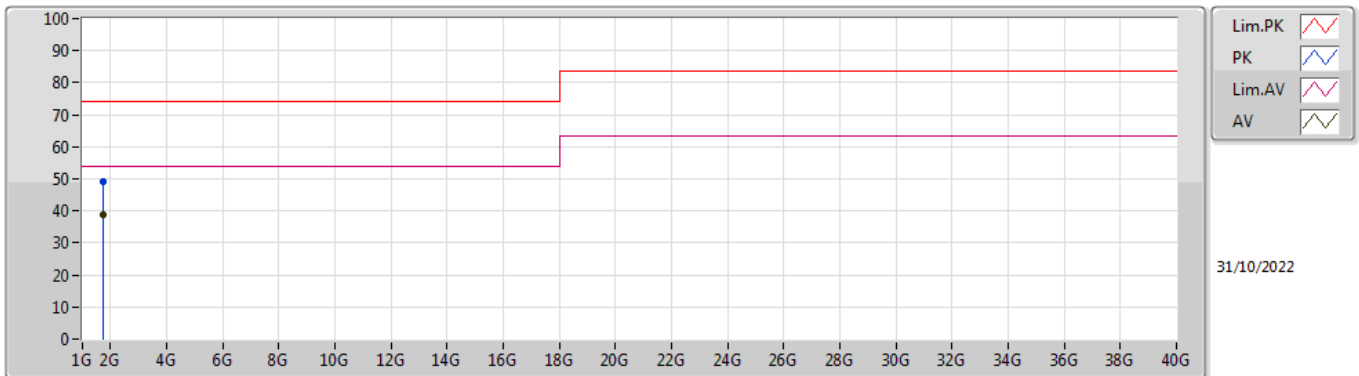
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.71982G	39.00	54.00	-15.00	Horizontal

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.71229G	48.45	74.00	-25.55	-7.80	3	Vertical	172	1.62	-	56.25	24.90	3.71	36.41
AV	1.71982G	38.86	54.00	-15.14	-7.73	3	Vertical	172	1.62	"Worst"	46.59	24.96	3.72	36.41

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.72003G	49.01	74.00	-24.99	-7.73	3	Horizontal	265	1.57	-	56.74	24.96	3.72	36.41
AV	1.71982G	39.00	54.00	-15.00	-7.73	3	Horizontal	265	1.57	"Worst"	46.73	24.96	3.72	36.41