



RADIO TEST REPORT

FCC ID : 2AHBN-AP45
Equipment : 802.11ax 6E Wireless Access Point
Brand Name : Juniper
Model Name : AP45,AP45E
Applicant : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089
USA
Manufacturer : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089
USA
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 19, 2021, and testing was started from Oct. 23, 2021 and completed on Apr. 07, 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 variant 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

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Photographs of EUT v01



Summary of Test Result

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

Note: Reference to Sporton Project No.: 182421-02.

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:

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: **Penny Kao**



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]

For Radio 2

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11n HT20	20	4TX
2.4-2.4835GHz	802.11n HT20-BF	20	4TX
2.4-2.4835GHz	VHT20	20	4TX
2.4-2.4835GHz	VHT20-BF	20	4TX
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11n HT40-BF	40	4TX
2.4-2.4835GHz	VHT40	40	4TX
2.4-2.4835GHz	VHT40-BF	40	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	4TX

For scanning radio 4

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	VHT20	20	1TX
2.4-2.4835GHz	802.11ax HEW20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX
2.4-2.4835GHz	VHT40	40	1TX
2.4-2.4835GHz	802.11ax HEW40	40	1TX



Note:

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



1.1.2 Antenna Information

Ant.	Port								Brand Name	Model Name	Ant. Type	Connector	Equip EUT	Gain (dBi)
	WLAN 5GHz (Radio 1)	WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)	WLAN 6GHz (Radio 3)	WLAN 2.4GHz (Radio 4)	WLAN 5GHz (Radio 4)	WLAN 6GHz (Radio 4)	BT (Radio 5)						
1	1	4	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX	EUT 1	
2	2	3	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
3	3	2	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
4	4	1	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
5	-	-	1	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
6	-	-	2	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
7	-	-	3	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
8	-	-	4	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
9	-	-	-	1	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
10	-	-	-	2	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
11	-	-	-	3	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
12	-	-	-	4	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
13	-	-	-	-	1	1	1	-	Juniper	AP45	PIFA	I-PEX		
14	-	-	-	-	2	2	2	-	Juniper	AP45	PIFA	I-PEX		
15	-	-	-	-	-	-	-	1	Juniper	AP45	PIFA	I-PEX	EUT 1, EUT 2	Note1
16	1	4	-	-	-	-	-	-	Acce I Tex	ATS-OO-2 456-466-1 0MC-36	OMNI	4-Port connector	EUT 2	
	2	3	-	-	-	-	-							
	3	2	-	-	-	-	-							
	4	1	-	-	-	-	-							
17	1	4	-	-	-	-	-	Acce I Tex	ATS-OP-2 456-81010 -10MC-36	Panel	4-Port connector			
	2	3	-	-	-	-	-							
	3	2	-	-	-	-	-							
	4	1	-	-	-	-	-							
18	-	-	-	-	4	1	-	Acce I Tex	ATS-OO-2 456-466-1 0MC-36	OMNI	6-Port connector			
	-	-	-	-	3	2	-							
	-	-	-	-	2	3	-							
	-	-	-	-	1	4	-							
19	-	-	-	-	4	1	-	Acce I Tex	ATS-OO-2 456-466-1 0MC-36	Panel	6-Port connector			
	-	-	-	-	3	2	-							
	-	-	-	-	2	3	-							
	-	-	-	-	1	4	-							



Note 1:

Ant.	Antenna Gain (dBi)																				
	WLAN 5GHz (Radio 1)				WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)		WLAN 6GHz (Radio 3)				WLAN 2.4GHz (Radio 4)	WLAN 5GHz (Radio 4)				WLAN 6GHz (Radio 4)				Bluetooth (Radio 5)
	UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A	UNII 5	UNII 6	UNII 7	UNII 8		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	2.89	3.7	3.46	2.39	2.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	2.61	2.55	3.04	3.8	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	1.94	2.2	2.82	2.54	2.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	3.27	4.06	2.87	2.17	1.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	-	-	-	-	-	3.2	3.56	-	-	-	-	-	-	-	-	-	-	-	-		
6	-	-	-	-	-	2.85	3.77	-	-	-	-	-	-	-	-	-	-	-	-		
7	-	-	-	-	-	3.37	3.23	-	-	-	-	-	-	-	-	-	-	-	-		
8	-	-	-	-	-	3.11	3.68	-	-	-	-	-	-	-	-	-	-	-	-		
9	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-		
10	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-		
11	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-		
12	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-		
13	-	-	-	-	-	-	-	-	-	-	-	5.0	5.4	5.4	5.5	5.3	4.7	4.8	4.8	4.1	-
14	-	-	-	-	-	-	-	-	-	-	-	5.0	5.4	5.4	5.5	5.3	4.7	4.8	4.8	4.1	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5
16	6	6	6	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	10	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	4	6	6	6	6	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	8	10	10	10	10	-	-	-	-	-

Ant.	Directional Gain (dBi)						
	WLAN 5GHz (Radio 1)				WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)	
	UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A
1	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-
3	6.44	6.41	7.19	6.67	4.23	-	-
4	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
7	-	-	-	-	-	7.7	8.16
8	-	-	-	-	-	-	-

Note 2: The EUT has nineteen antennas. The ant.15 is BLE Array (Beam 1~Beam 9 and Omni).

Antenna 16 must be used with antenna 18 and antenna 17 must be used with antenna 19.

Note 3: The above information was declared by manufacturer.

Note 4: **For Radio 2**

For 2.4GHz:

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

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

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

For Radio 1

For 5GHz UNII 1~3:

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

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

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

For Radio 2

For 5GHz UNII 1~2A:

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

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

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

For Radio 3 (For EUT1 only)

For 6E UNII 5~8 (4TX/4RX):

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



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

For scanning Radio 4

For 2.4GHz, IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):

The EUT supports the antenna with TX diversity functions.

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

The Port 1 for EUT 1 and EUT 2 + Ant. 18 generated the worst case, so it was selected to test and record in the report.

The Port 1 for EUT 2 + Ant. 19 generated the worst case, so it was selected to test and record in the report.

For 5GHz UNII 1~3, IEEE 802.11a/n/ac/ax mode (1TX/2RX):

The EUT supports the antenna with TX diversity functions.

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

The Port 1 for EUT 1 and EUT 2 + Ant. 18 generated the worst case, so it was selected to test and record in the report.

The Port 1 for EUT 2 + Ant. 19 generated the worst case, so it was selected to test and record in the report.

For 6E UNII 5~8, IEEE 802.11ax mode (1TX/2RX): (For EUT1 only)

The EUT supports the antenna with TX diversity functions.

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

The Port 1 generated the worst case, so it was selected to test and record in the report.

For Radio 5

Bluetooth (1TX/1RX):

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



Note 5: For EUT 1:

Radio 1, 2: Maximum Directional Gain following KDB662911 D03. The antenna report is provided in the operational description for this application.

For EUT 2: Maximum Directional Gain following KDB662911 D01.

For Radio 1 5GHz UNII 1~3 + Antenna 16:

For Radio 2 2.4GHz + Antenna 16:

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 $N_{ANT} \leq 4$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$
BF	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] => 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G\ G1 = 4 ; G2 = 4 ; G3 = 4 ; G4 = 4 ;$$

$$5G\ G1 = 6 ; G2 = 6 ; G3 = 6 ; G4 = 6 ;$$

$$2.4G\ DG = 10.02\ dBi$$

$$5\ GHz\ U-NII-1\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-2A\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-2C\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-3\ DG = 12.02\ dBi$$

For Radio 1, 5GHz UNII 1~3 + Antenna 17:
 For Radio 2, 2.4GHz + Antenna 17:
 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	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$
BF	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] => 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G\ G1 = 8 ; G2 = 8 ; G3 = 8 ; G4 = 8 ;$$

$$5G\ G1 = 10 ; G2 = 10 ; G3 = 10 ; G4 = 10 ;$$

$$2.4G\ DG = 14.02\ dBi$$

$$5\ GHz\ U-NII-1\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-2A\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-2C\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-3\ DG = 16.02\ dBi$$



1.1.3 Mode Test Duty Cycle

For EUT 2 Radio 4+Ant.18:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.957	0.19	12.424m	100
802.11g	0.954	0.2	2.085m	1k
802.11ax HEW20	0.984	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.969	0.14	782.5u	3k

For EUT 2 Radio 4+Ant.19:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.937	0.28	12.45m	100
802.11g	0.953	0.21	2.068m	1k
802.11ax HEW20	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.97	0.13	790u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
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 of radio 2, n/ac/ax in 5GHz UNII 1~UNII 3 of radio 1, 5GHz UNII 1~UNII 2 of radio 2 and ax in 6GHz UNII 5~UNII 8 of radio 3.			
Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Test Software Version	accessMTool(version 3.2.1.5)			

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

Model Name	EUT	Antenna	Operation Function
AP45	1	Internal	Mode 1: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 2.4GHz)+Radio 5 (BT) Mode 2: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 5 GHz) +Radio 5 (BT) Mode 3: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 6 GHz) +Radio 5 (BT) Mode 4: Radio 1 (WLAN 5GHz UNII 2C~3)+Radio 2 (WLAN 5GHz UNII 1~2A) +Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 2.4GHz) +Radio 5 (BT) Mode 5: Radio 1 (WLAN 5GHz UNII 2C~3)+Radio 2 (WLAN 5GHz UNII 1~2A) +Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 5 GHz) +Radio 5 (BT) Mode 6: Radio 1 (WLAN 5GHz UNII 2C~3)+Radio 2 (WLAN 5GHz UNII 1~2A) +Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 6 GHz) +Radio 5 (BT)
AP45E	2	External	Mode 1: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 4 (WLAN 2.4GHz) +Radio 5 (BT) Mode 2: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 4 (WLAN 5GHz) +Radio 5 (BT)

Note: The above information was declared by manufacturer.

1.1.6 Table for Configuration and Radio Function

Configuration	EUT	Radio 1	Radio 2	Radio 3	Radio 4 (Scanning)	Radio 5
1	EUT 1	(WLAN 5GHz UNII 1~3)	(WLAN 2.4GHz)	(WLAN 6GHz)	(WLAN 2.4GHz)	(Bluetooth)
2	EUT 1				(WLAN 5GHz)	
3	EUT 1				(WLAN 6GHz)	
4	EUT 1 (FEM)	(WLAN 5GHz UNII 2C~3)	(WLAN 5GHz UNII 1~2A)		(WLAN 2.4GHz)	
5	EUT 1 (FEM)				(WLAN 5GHz)	
6	EUT 1 (FEM)				(WLAN 6GHz)	
7	EUT 2	(WLAN 5GHz UNII 1~3)	(WLAN 2.4GHz)	-	(WLAN 2.4GHz)	
8	EUT 2			(WLAN 5GHz)		

Note: The above information was declared by manufacturer.



1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR182421-01AA

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
<p>For EUT 1:</p> <ol style="list-style-type: none"> 1. Radio 1: enable UNII 2A, 2C. 2. Radio 2: enable UNII 2A. 3. Radio 4: enable UNII 2A, 2C, 6G. <p>For EUT 2:</p> <ol style="list-style-type: none"> 1. Radio 1: enable UNII 2A, 2C. 2. Radio 4: enable this radio, the function includes 2.4G, 5G UNII 1~3. 3. Adding two sets antenna for radio 4 (Antenna set 18~19). 	<ol style="list-style-type: none"> 1. EUT 2 enable Radio 4 (2.4GHz), the test items as below: <ol style="list-style-type: none"> a. DTS Bandwidth b. Maximum Conducted Output Power c. Power Spectral Density d. Emissions in Non-restricted Frequency Bands e. Emissions in Restricted Frequency Bands above 1GHz. 2. EUT 1 enable Radio 4 (6GHz), EUT 2 enable Radio 4 (2.4GHz+5GHz), the test items as below: <ol style="list-style-type: none"> a. AC Power-line Conducted Emissions b. Emissions in Restricted Frequency Bands below 1GHz.



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 662911 D03 v01
- ◆ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Owen Hsu	20.3~21.9 / 58~62	Jan. 13, 2022~ Feb. 26, 2022
Radiated below 1GHz (Test Mode: Mode2~7)	03CH05-CB	Ken Yeh	22.5~23.6 / 56~59	Dec. 29, 2021
Radiated below 1GHz (Test Mode: Mode1)	03CH03-CB	Eason Chen	24.2~26.1 / 55-58	Mar. 30, 2022
Radiated Above 1GHz	03CH02-CB	Eason Chen	24.2~26.1 / 55-58	Oct. 23, 2021~ Mar. 01, 2022
AC Conduction (Test Mode: Mode1)	CO01-CB	Joe Chu	20~22 / 60~62	Apr. 07, 2022
AC Conduction (Test Mode: Mode2~3)	CO01-CB	Peter Wu	22~23 / 55~56	Nov. 15, 2021~ Jan. 04, 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)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For EUT 2 Radio 4 + Ant.18:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	81
2437MHz	89
2462MHz	80
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	73
2437MHz	81
2462MHz	71
802.11ax HEW20_Nss1,(MCS0)_1TX	-
2412MHz	72
2437MHz	77
2462MHz	71
802.11ax HEW40_Nss1,(MCS0)_1TX	-
2422MHz	66
2437MHz	63
2452MHz	68



For EUT 2 Radio 4 + Ant.19:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	79
2437MHz	84
2462MHz	79
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	70
2437MHz	80
2462MHz	69
802.11ax HEW20_Nss1,(MCS0)_1TX	-
2412MHz	70
2437MHz	76
2462MHz	68
802.11ax HEW40_Nss1,(MCS0)_1TX	-
2422MHz	66
2437MHz	61
2452MHz	65

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 beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.



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						
	The EUT 1 performed testing at unsupported FEM and supported FEM mode The unsupported FEM mode has been evaluated to be the worst case. So the measurement will follow this same test configuration.						
	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Radio 5	Powered by
1	EUT 1	5GHz Full band	2.4GHz	6GHz	6GHz	Bluetooth	PoE
2	EUT 2	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	-	2.4GHz (Ant.19)	Bluetooth	PoE
3	EUT 2	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	-	5GHz (Ant.19)	Bluetooth	PoE

For operating mode 2 is the worst case and it was record in this test report.

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
1	EUT 2 + Radio 4 + Ant.18
2	EUT 2 + Radio 4 + Ant.19



The Worst Case Mode for Following Conformance Tests							
Tests Item	Emissions in Restricted Frequency Bands						
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.						
Operating Mode < 1GHz	Normal Link						
	1. The EUT 1 performed testing at unsupported FEM and supported FEM mode, the unsupported FEM mode has been evaluated to be the worst case. So the measurement will follow this same test configuration. 2. The EUT 1 was performed at X axis, Y axis and Z axis position, and the worst case was EUT found at X axis. So the measurement will follow this same test configuration.						
	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Radio 5	Powered by
1	EUT 1 in X axis	5GHz Full band	2.4GHz	6GHz	6GHz	Bluetooth	PoE
2	EUT 2 in Z axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	-	2.4GHz (Ant.18)	Bluetooth	PoE
3	EUT 2 in Z axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	-	5GHz (Ant.18)	Bluetooth	PoE
Mode 2 has been evaluated to be the worst case among Mode 2~3, thus measurement for mode 4 ~ 5 will follow this same test mode.							
4	EUT 2 in Y axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	-	2.4GHz (Ant.18)	Bluetooth	PoE
5	EUT 2 in X axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	-	2.4GHz (Ant.18)	Bluetooth	PoE
Mode 4 has been evaluated to be the worst case among Mode 2~5, thus measurement for mode 6 ~ 7 will follow this same test mode.							
6	EUT 2 in Y axis	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	-	2.4GHz (Ant.19)	Bluetooth	PoE
7	EUT 2 in Y axis	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	-	5GHz (Ant.19)	Bluetooth	PoE



For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was EUT found at Y axis. So the measurement will follow this same test configuration.
1	EUT 2 in Y axis + Radio 4 + Ant.18
2	EUT 2 in Y axis + Radio 4 + Ant.19

The Worst Case Mode for Following Conformance Tests						
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation					
Operating Mode	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Radio 5
1	EUT 1	5GHz Full band	2.4GHz	6GHz	2.4GHz	Bluetooth
2	EUT 1	5GHz Full band	2.4GHz	6GHz	5GHz	Bluetooth
3	EUT 1	5GHz Full band	2.4GHz	6GHz	6GHz	Bluetooth
4	EUT 1	5GHz Full band	2.4GHz	6GHz	2.4GHz	Bluetooth
5	EUT 1	5GHz Full band	2.4GHz	6GHz	5GHz	Bluetooth
6	EUT 1	5GHz high band	5GHz low band	6GHz	6GHz	Bluetooth
7	EUT 2	5GHz Full band	2.4GHz	-	2.4GHz	Bluetooth
8	EUT 2	5GHz Full band	2.4GHz	-	5GHz	Bluetooth

Refer to Sporton Test Report No.: FA182421-05 for Co-location RF Exposure Evaluation.

Note: The PoE is for measurement only, would not be marketed.

PoE information as below:

Power	Brand	Model
PoE	PHIHONG	POE60U-1BT-5



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Others
Antenna bracket*1 (Only for ant. 17 and ant. 19 use)
Bracket*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHIHONG	POE60U-1BT-5	N/A
B	PD Load	JUNIPER	AP45	N/A
C	PD PC	DELL	T3400	N/A
D	LAN NB	DELL	E6430	N/A
E	2.4G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A
G	SCAN NB	DELL	E6430	N/A
H	Flash disk3.0	Transcend	JetFlash-700	2AHBN-AP45

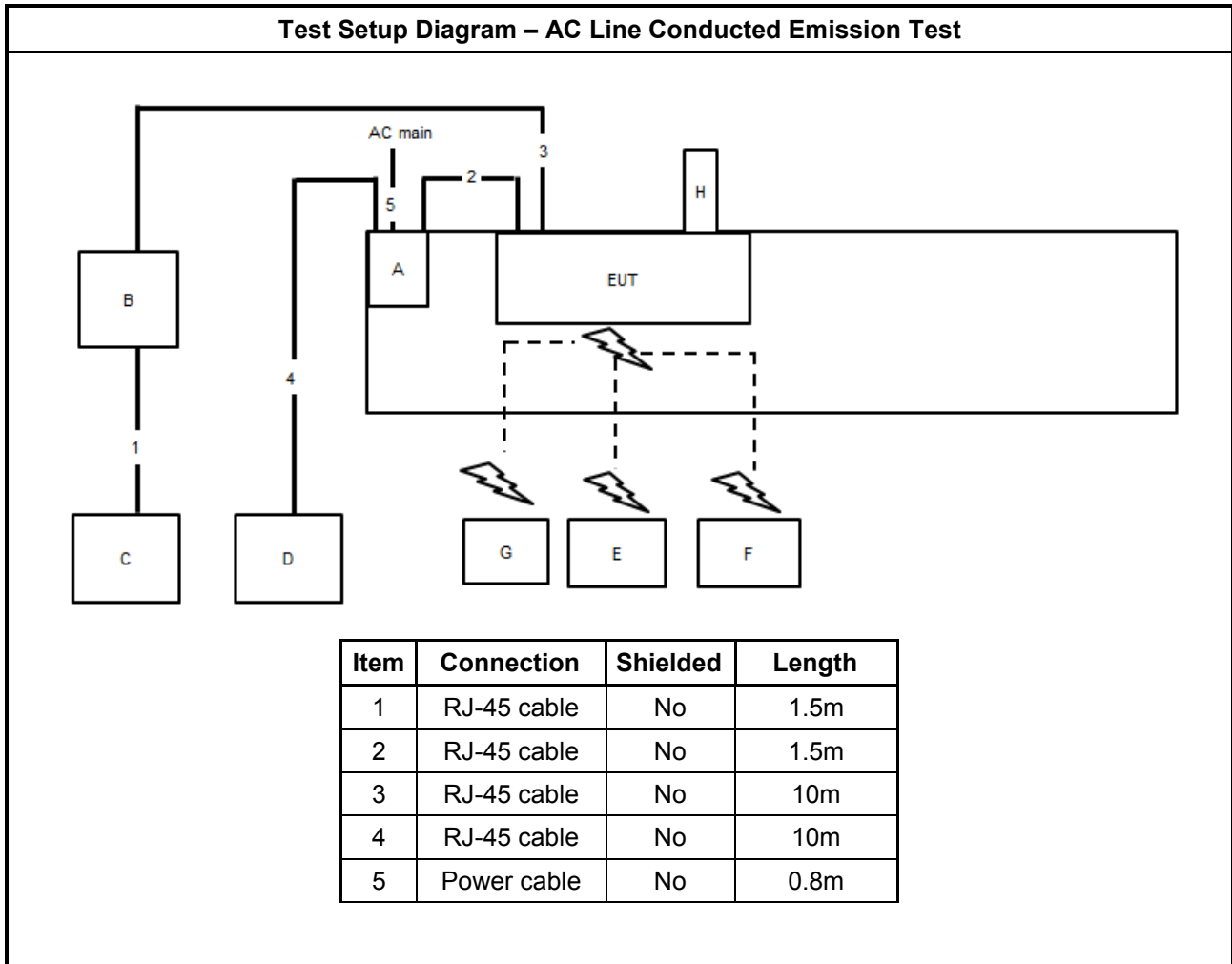
For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN Notebook	DELL	E4300	N/A
B	LAN Notebook	DELL	E4300	N/A
C	WLAN module(6E)	Intel	AX210NGW	PD9AX210NG
D	WLAN module(6E)	Intel	AX210NGW	PD9AX210NG
E	WiFi Notebook(2.4G)	DELL	E4300	N/A
F	WiFi Notebook(5G)	DELL	E4300	N/A
G	Flash disk3.0	Silicon Power	B06	N/A
H	PD Load	Juniper	AP45, AP45E	N/A
I	PoE	PHIHONG	ADP-60HR B	N/A

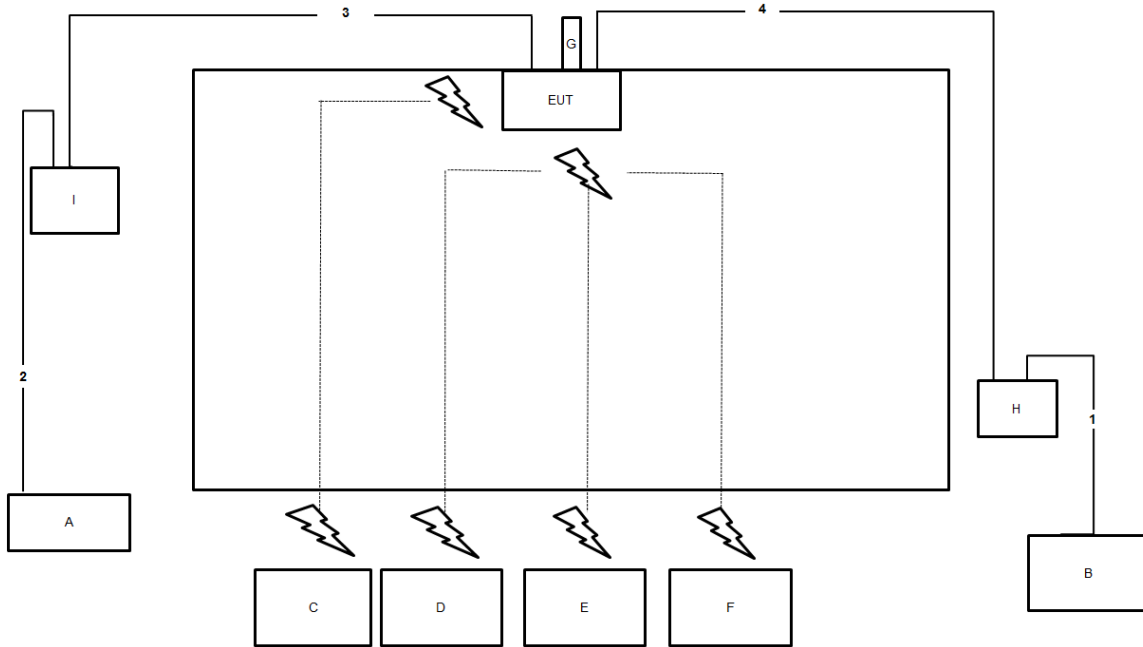
For RF Conducted and Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	PHIHONG	POE60U-1BT-5	N/A

2.6 Test Setup Diagram

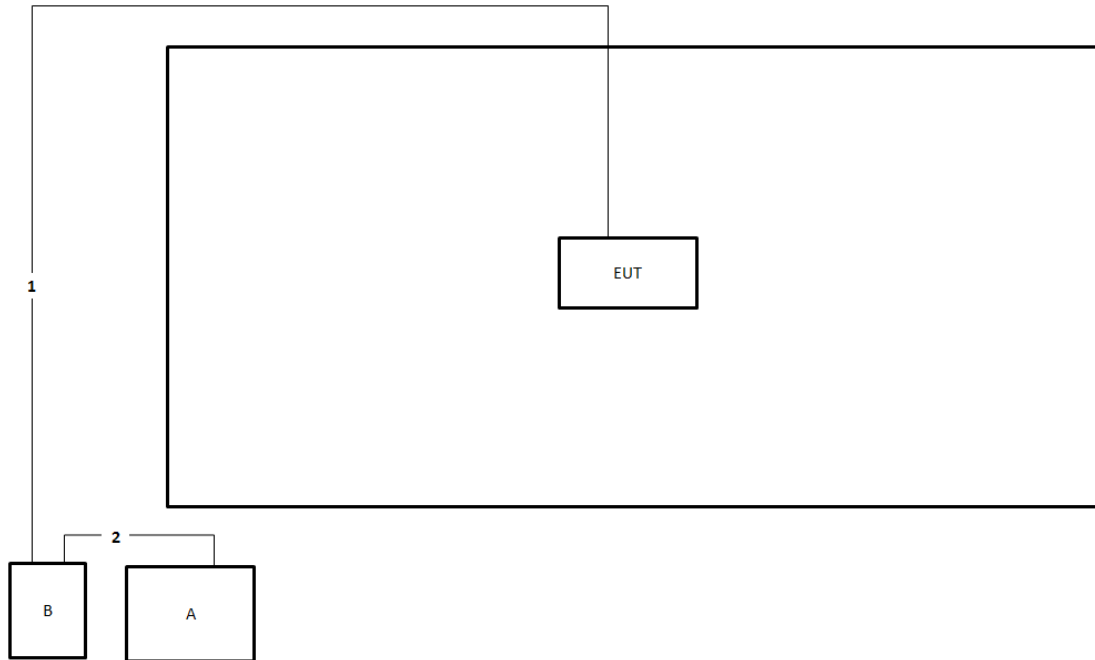


Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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

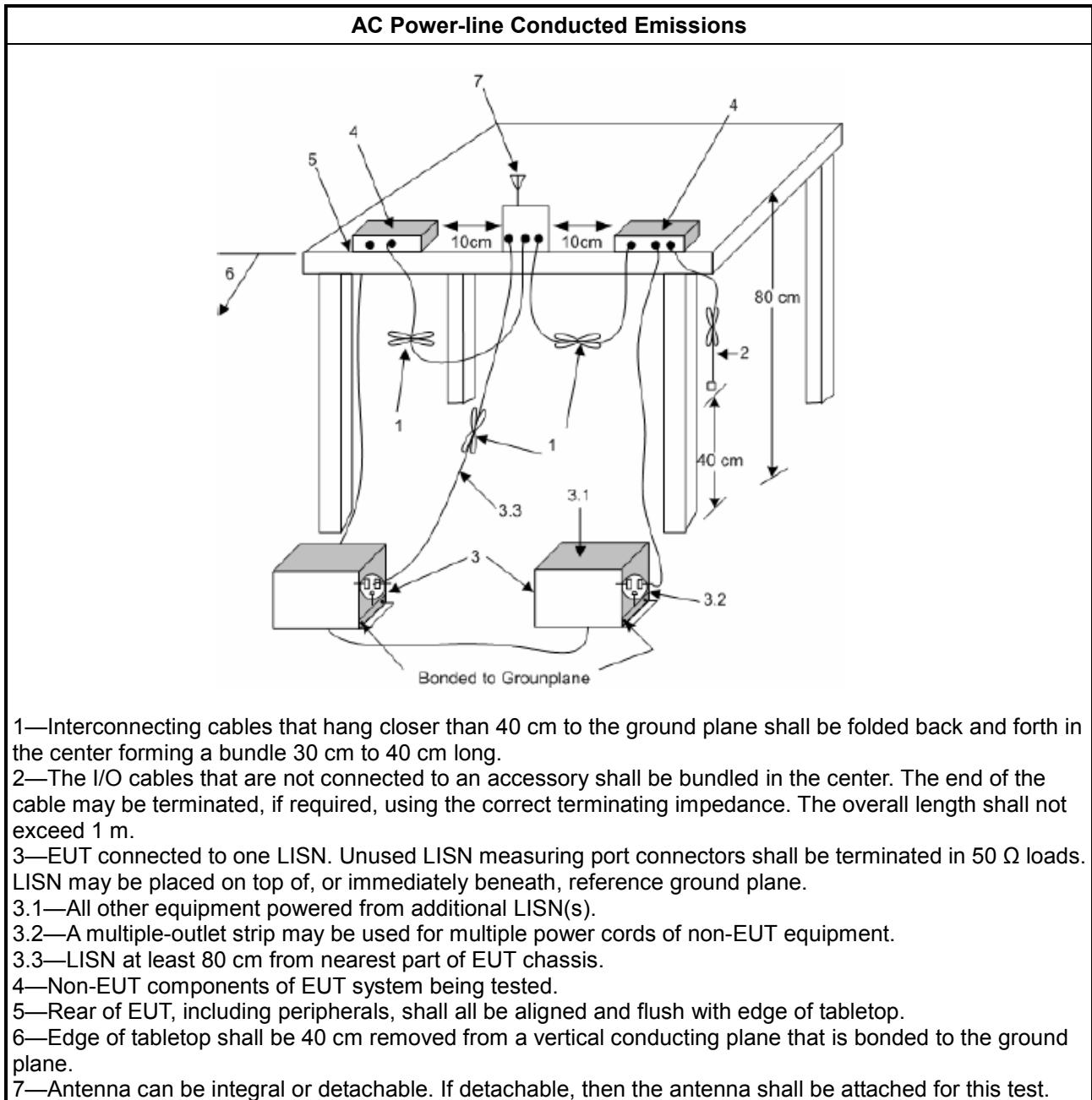
3.1.2 Measuring Instruments

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.

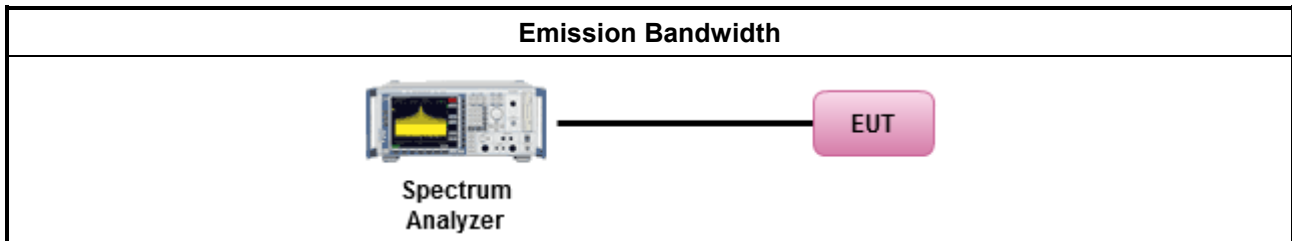
3.2.2 Measuring Instruments

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

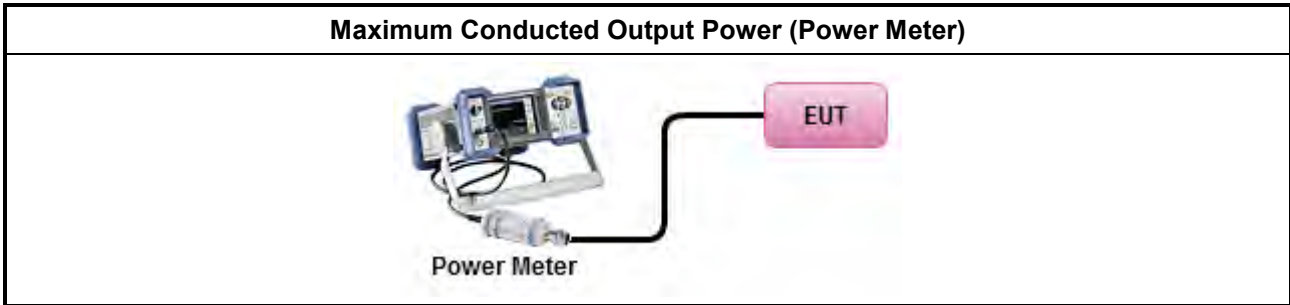
Refer a test equipment and calibration data table in this test report.



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 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

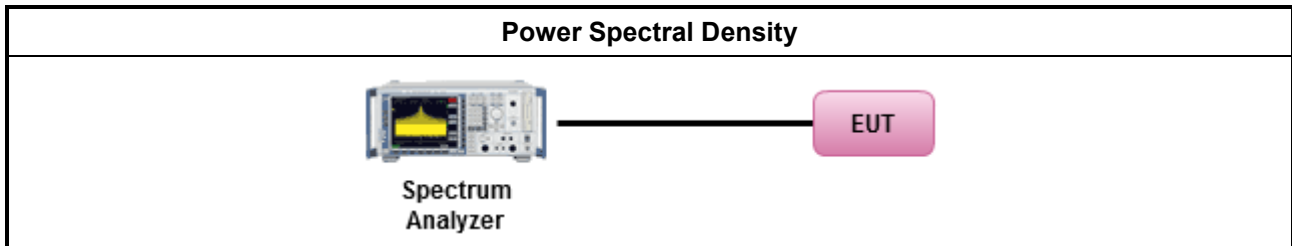
3.4.2 Measuring Instruments

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 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 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 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.

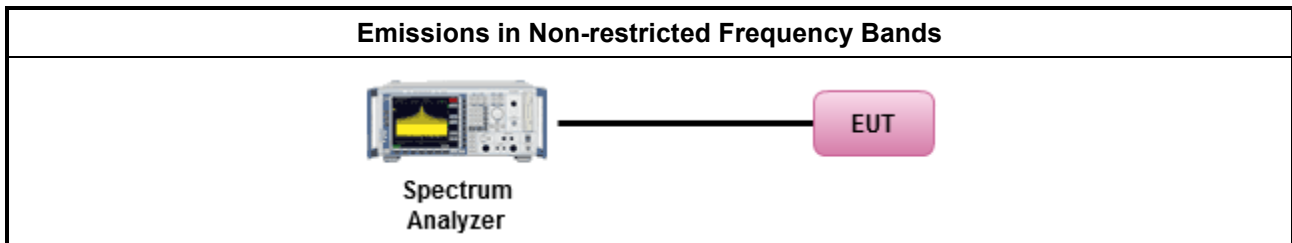
3.5.2 Measuring Instruments

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

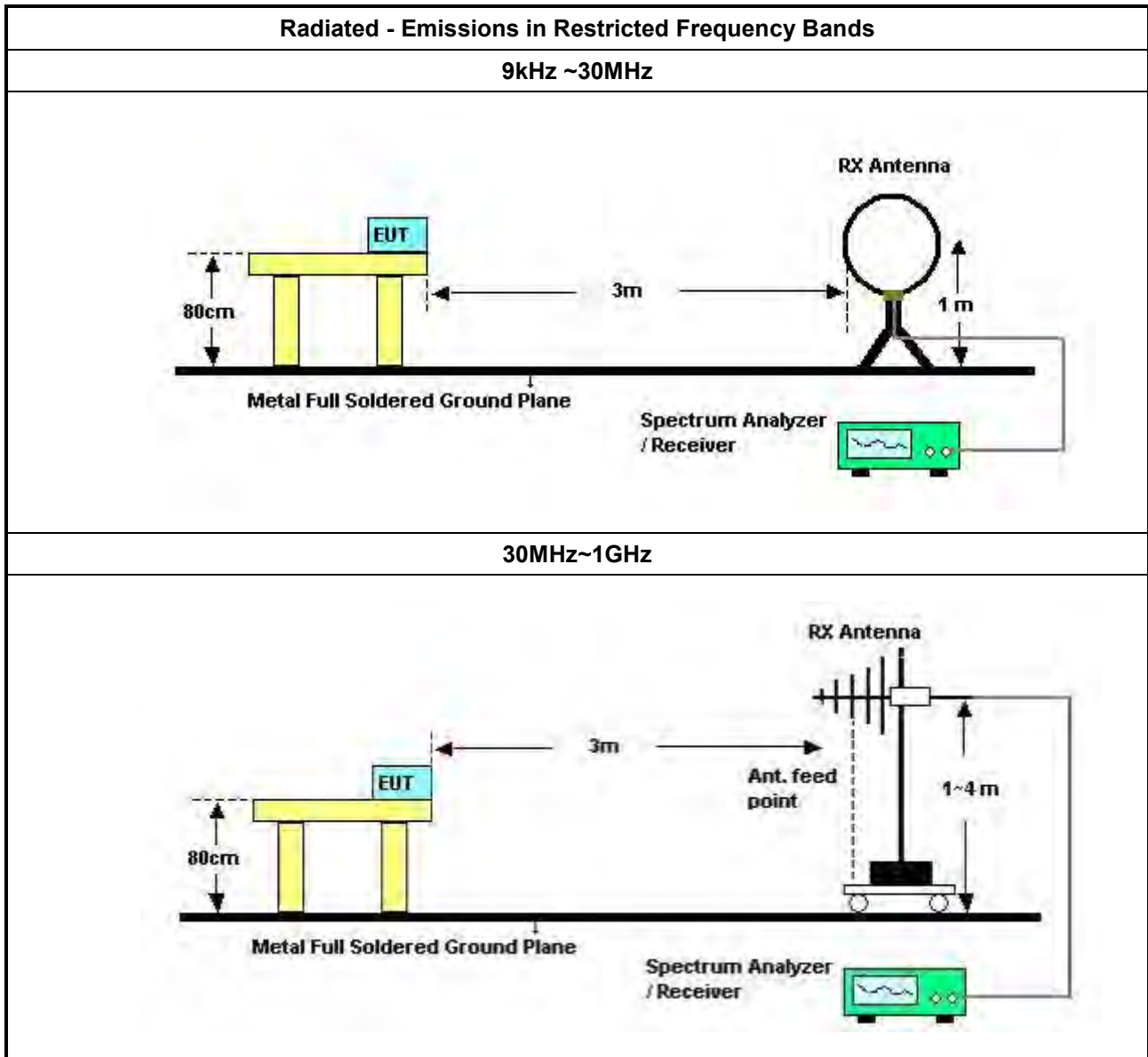
Refer a test equipment and calibration data table in this test report.

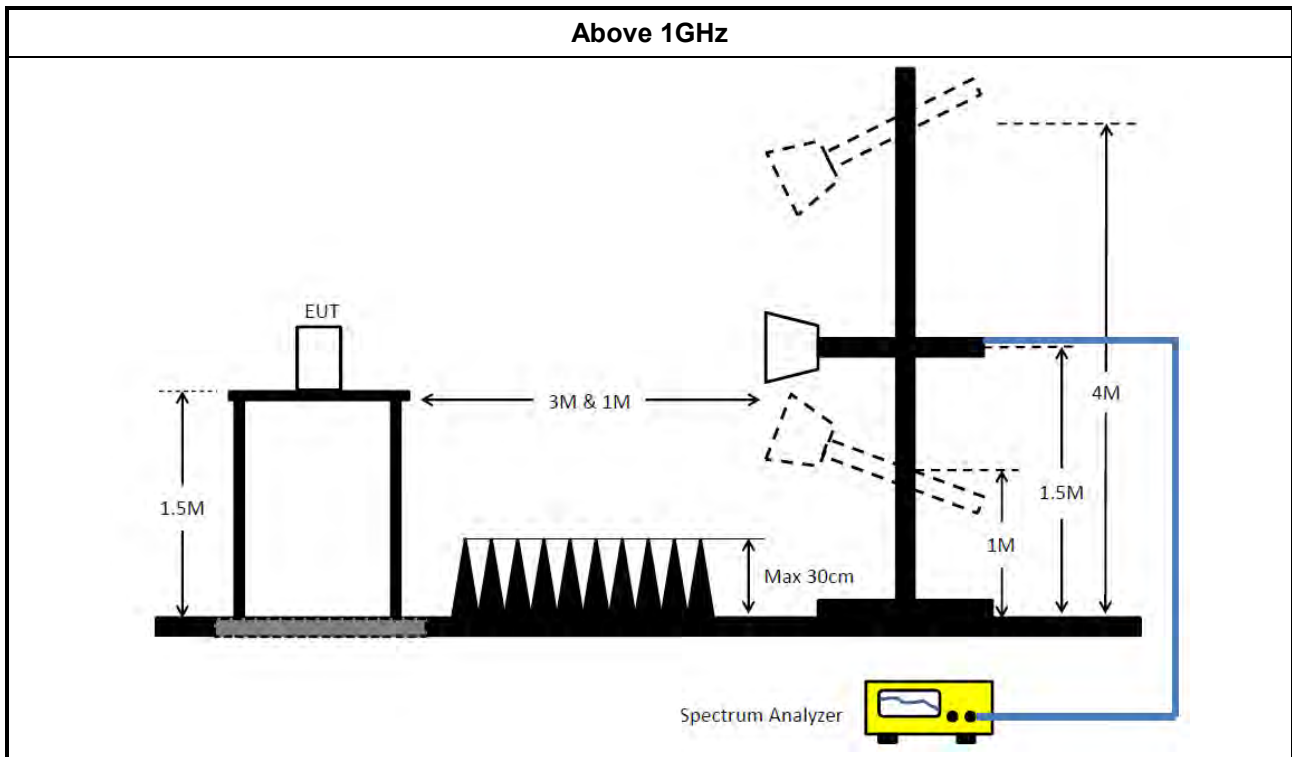


3.6.3 Test Procedures

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
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 26, 2022	Jan. 25, 2023	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 21, 2022	Feb. 20, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 10, 2022	Jan. 09, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 04, 2021	Jun. 03, 2022	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 06, 2021	Sep. 05, 2022	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 06, 2021	Sep. 05, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

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

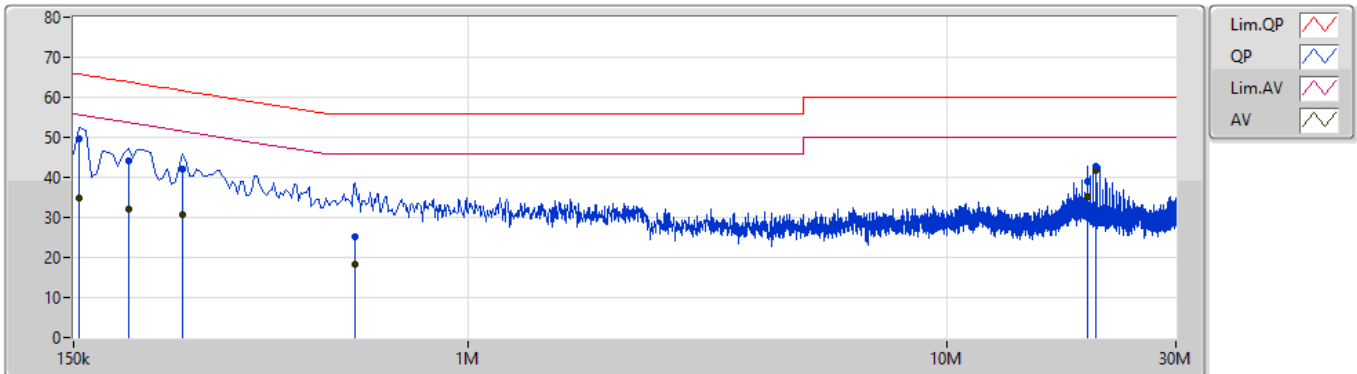


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	20.364M	41.62	50.00	-8.38	Line

Mode 2

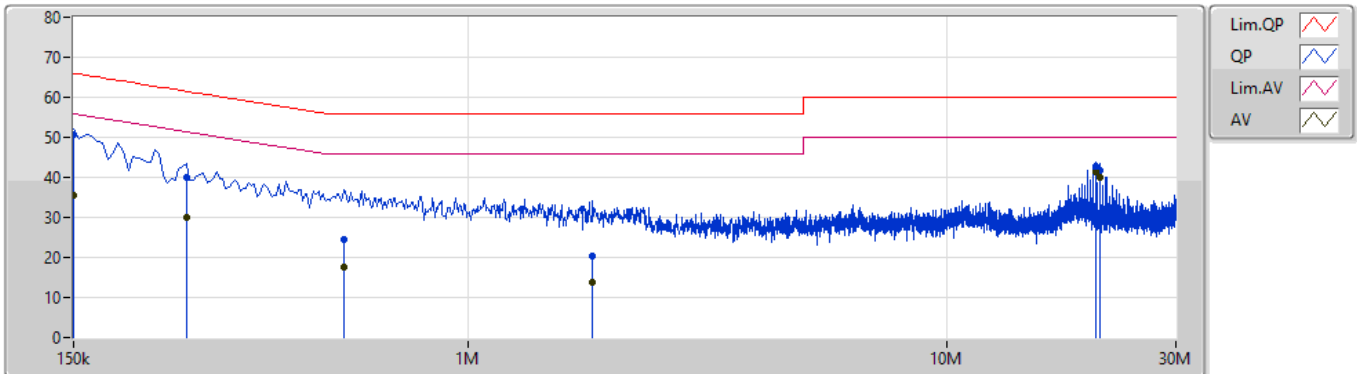
04/01/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	154.5k	49.68	65.75	-16.07	9.89	Line	-	39.79	0.04	0.04	9.81
AV	154.5k	34.72	55.75	-21.03	9.89	Line	-	24.83	0.04	0.04	9.81
QP	195k	44.22	63.82	-19.60	9.89	Line	-	34.33	0.04	0.04	9.81
AV	195k	31.97	53.82	-21.85	9.89	Line	-	22.08	0.04	0.04	9.81
QP	253.5k	42.12	61.64	-19.52	9.89	Line	-	32.23	0.04	0.04	9.81
AV	253.5k	30.85	51.64	-20.79	9.89	Line	-	20.96	0.04	0.04	9.81
QP	582k	25.17	56.00	-30.83	9.91	Line	-	15.26	0.05	0.04	9.82
AV	582k	18.21	46.00	-27.79	9.91	Line	-	8.30	0.05	0.04	9.82
QP	19.64M	38.97	60.00	-21.03	10.53	Line	-	28.44	0.32	0.22	9.99
AV	19.64M	35.23	50.00	-14.77	10.53	Line	-	24.70	0.32	0.22	9.99
QP	20.364M	42.82	60.00	-17.18	10.54	Line	-	32.28	0.32	0.22	10.00
AV	20.364M	41.62	50.00	-8.38	10.54	Line	"Worst"	31.08	0.32	0.22	10.00

Mode 2

04/01/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150k	50.67	66.00	-15.33	9.88	Neutral	-	40.79	0.03	0.04	9.81
AV	150k	35.39	56.00	-20.61	9.88	Neutral	-	25.51	0.03	0.04	9.81
QP	258k	40.07	61.49	-21.42	9.88	Neutral	-	30.19	0.03	0.04	9.81
AV	258k	30.07	51.49	-21.42	9.88	Neutral	-	20.19	0.03	0.04	9.81
QP	550.5k	24.54	56.00	-31.46	9.90	Neutral	-	14.64	0.04	0.04	9.82
AV	550.5k	17.54	46.00	-28.46	9.90	Neutral	-	7.64	0.04	0.04	9.82
QP	1.82M	20.34	56.00	-35.66	9.96	Neutral	-	10.38	0.07	0.07	9.82
AV	1.82M	13.69	46.00	-32.31	9.96	Neutral	-	3.73	0.07	0.07	9.82
QP	20.364M	42.77	60.00	-17.23	10.52	Neutral	-	32.25	0.30	0.22	10.00
AV	20.364M	41.55	50.00	-8.45	10.52	Neutral	"Worst"	31.03	0.30	0.22	10.00
QP	20.85M	41.88	60.00	-18.12	10.54	Neutral	-	31.34	0.31	0.23	10.00
AV	20.85M	40.02	50.00	-9.98	10.54	Neutral	-	29.48	0.31	0.23	10.00



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.475M	14.893M	14M9G1D	7.025M	11.994M
802.11g_Nss1,(6Mbps)_1TX	16.35M	21.764M	21M8D1D	16.325M	16.967M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.925M	19.64M	19M6D1D	18.85M	19.09M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.85M	38.081M	38M1D1D	37.7M	37.881M

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)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	7.05M	11.994M
2437MHz	Pass	500k	8.475M	14.893M
2462MHz	Pass	500k	7.025M	12.019M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.325M	17.041M
2437MHz	Pass	500k	16.35M	21.764M
2462MHz	Pass	500k	16.325M	16.967M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	18.9M	19.115M
2437MHz	Pass	500k	18.925M	19.64M
2462MHz	Pass	500k	18.85M	19.09M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	37.7M	38.081M
2437MHz	Pass	500k	37.8M	37.881M
2452MHz	Pass	500k	37.85M	38.081M

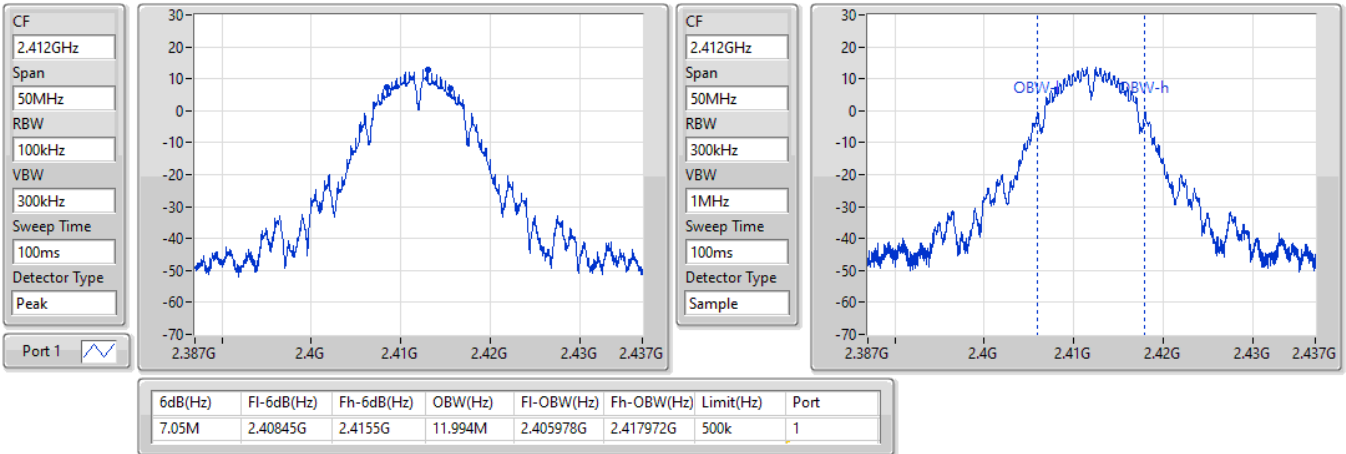
Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

15/02/2022

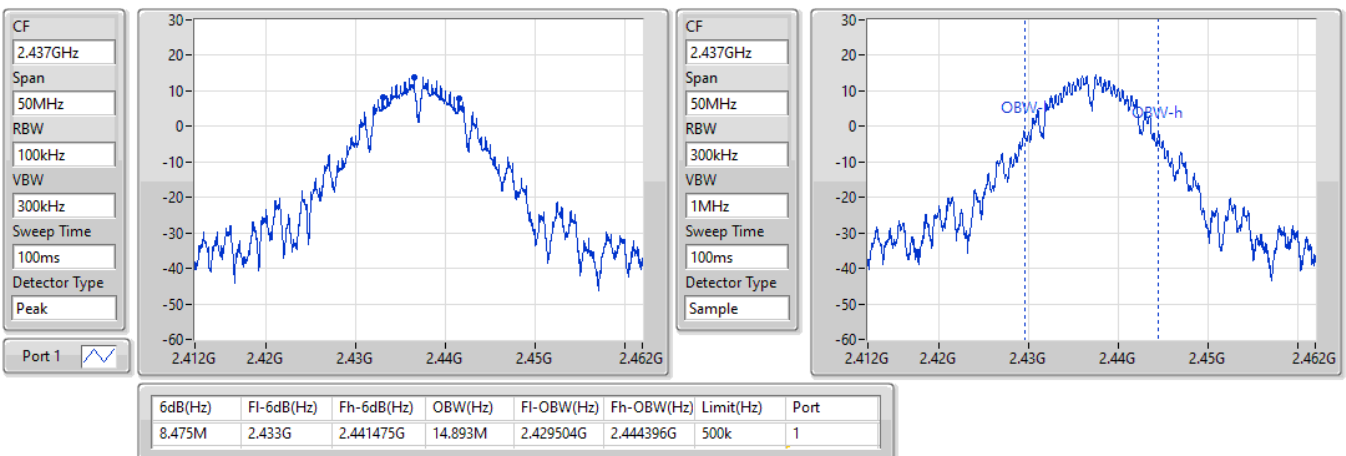


802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

15/02/2022

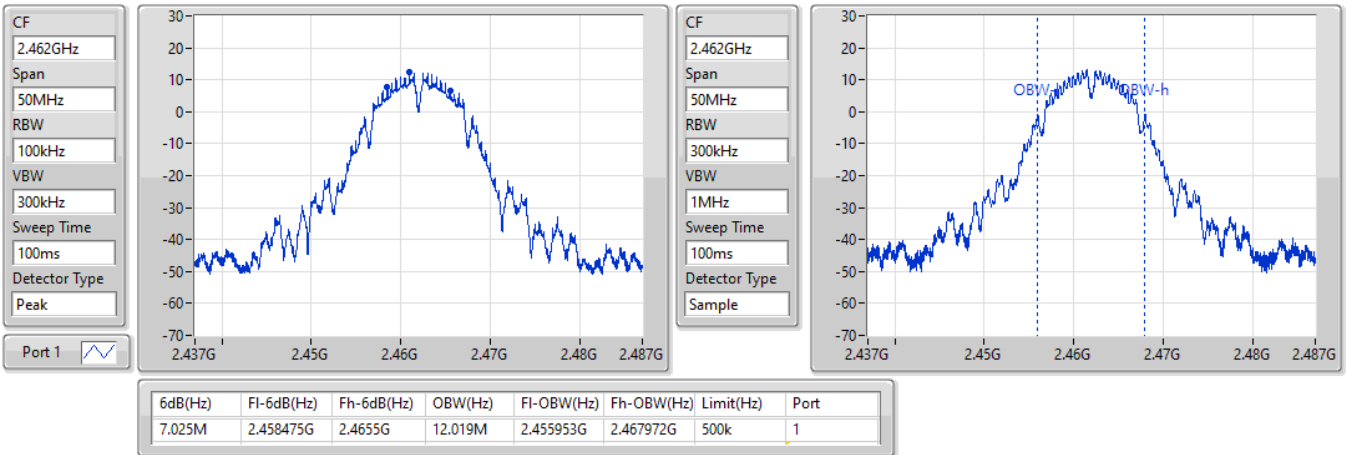


802.11b_Nss1,(1Mbps)_1TX

EBW

2462MHz

15/02/2022

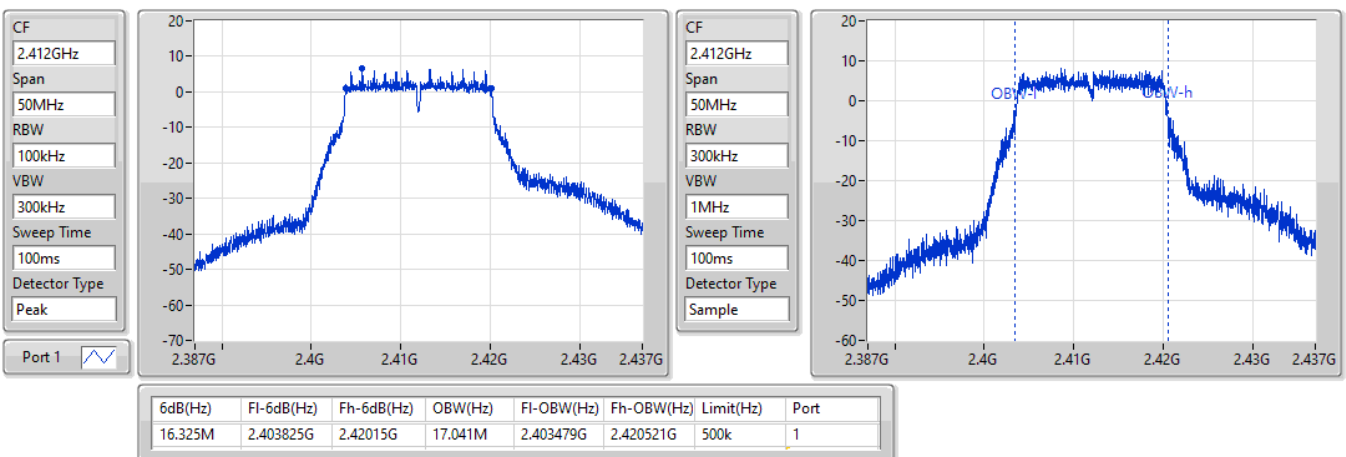


802.11g_Nss1,(6Mbps)_1TX

EBW

2412MHz

15/02/2022

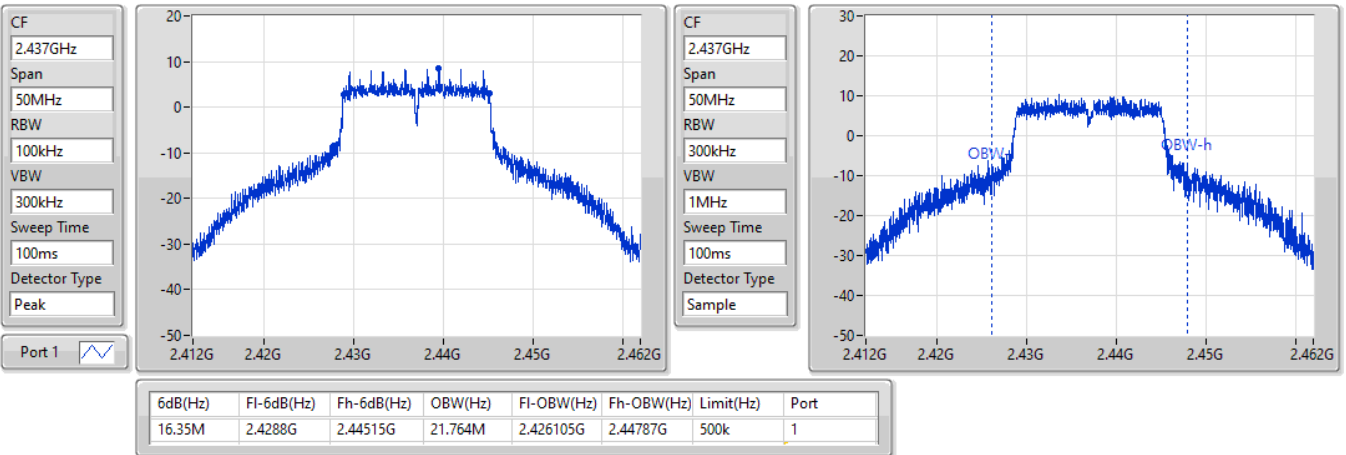


802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

15/02/2022

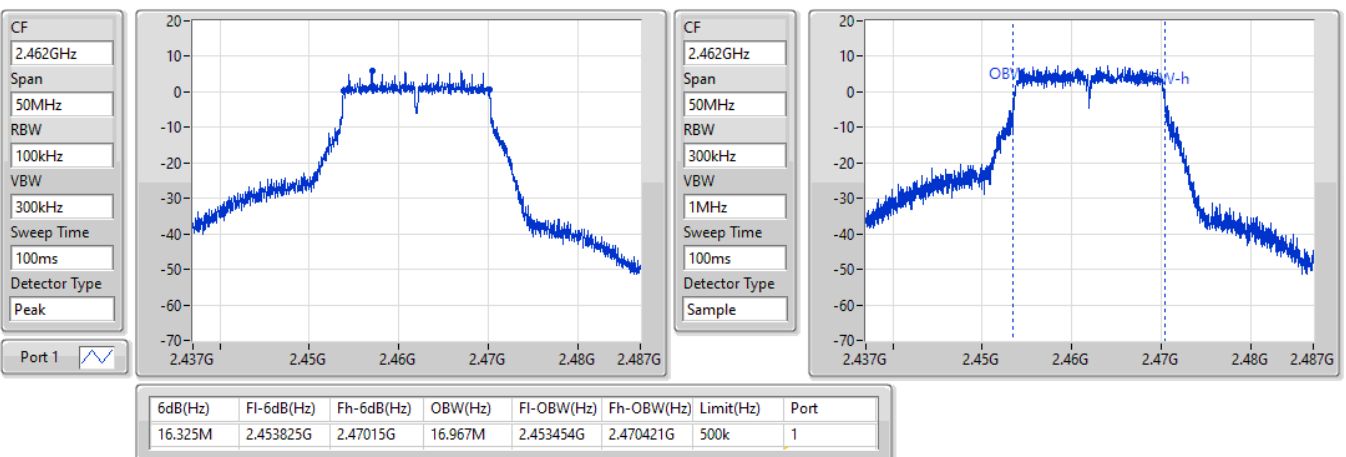


802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

15/02/2022

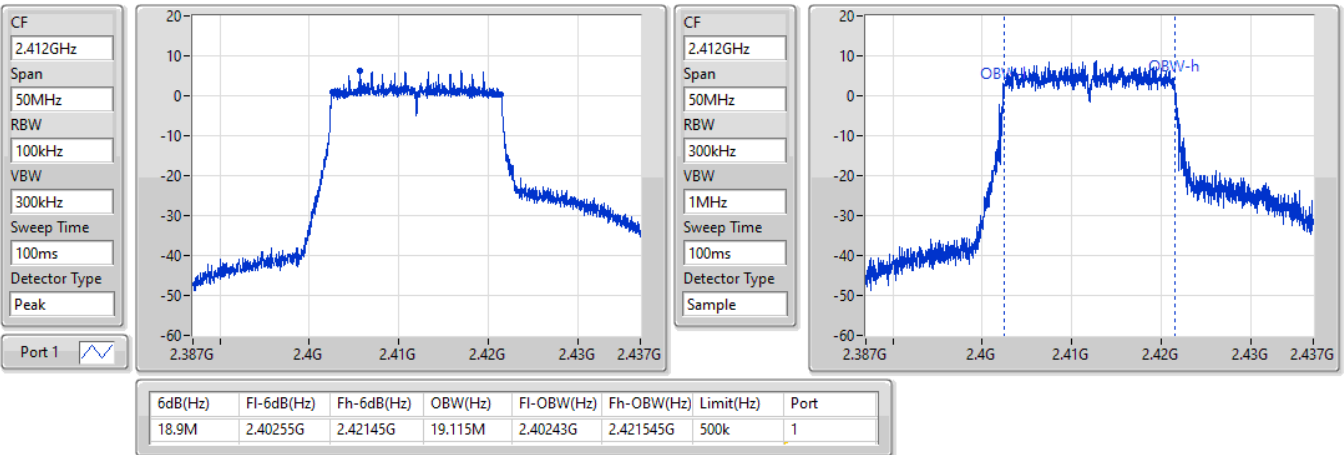


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2412MHz

15/02/2022

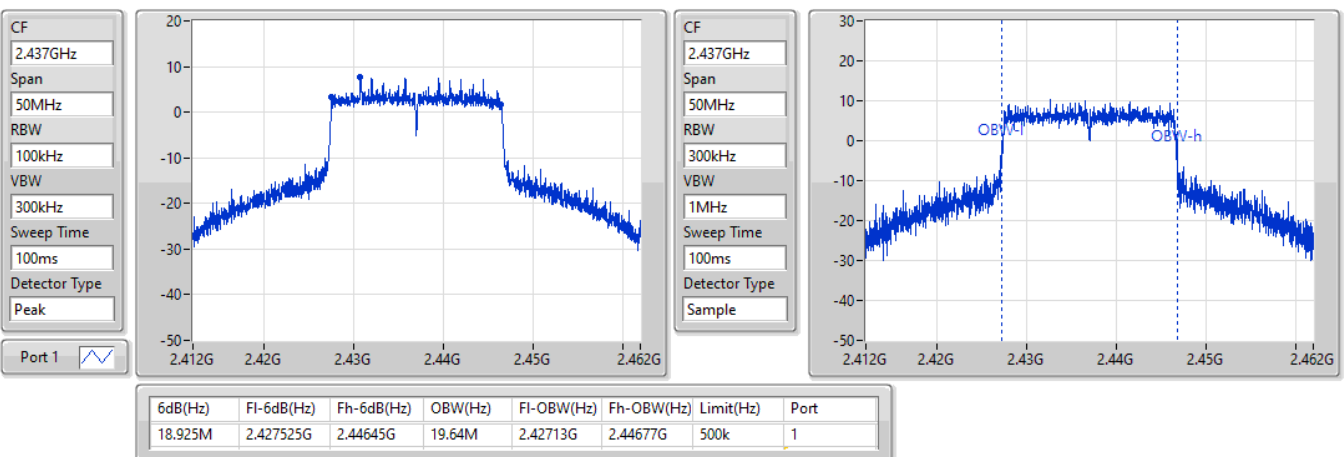


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2437MHz

15/02/2022

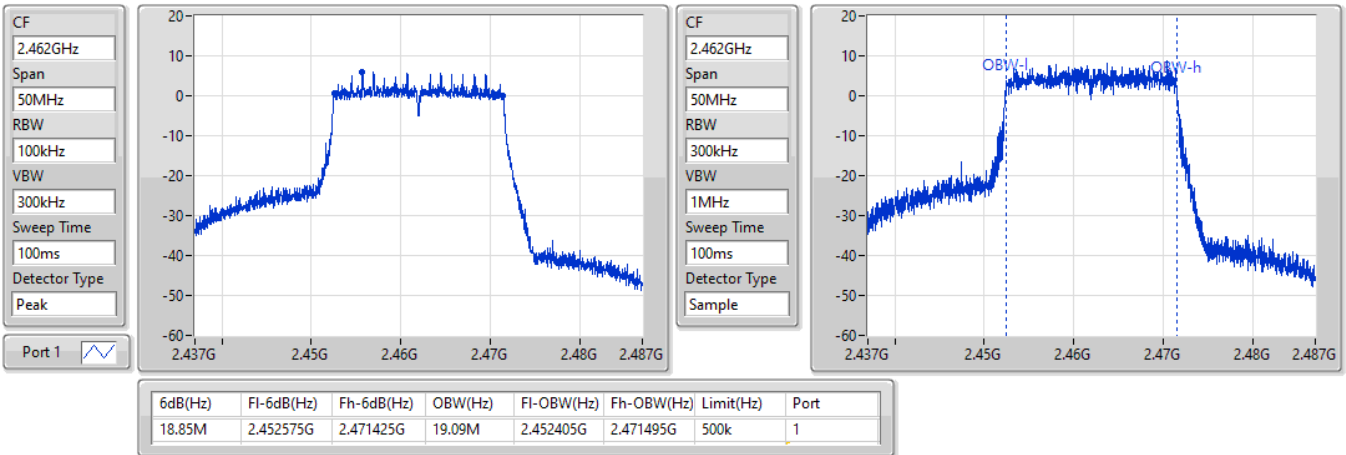


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2462MHz

15/02/2022

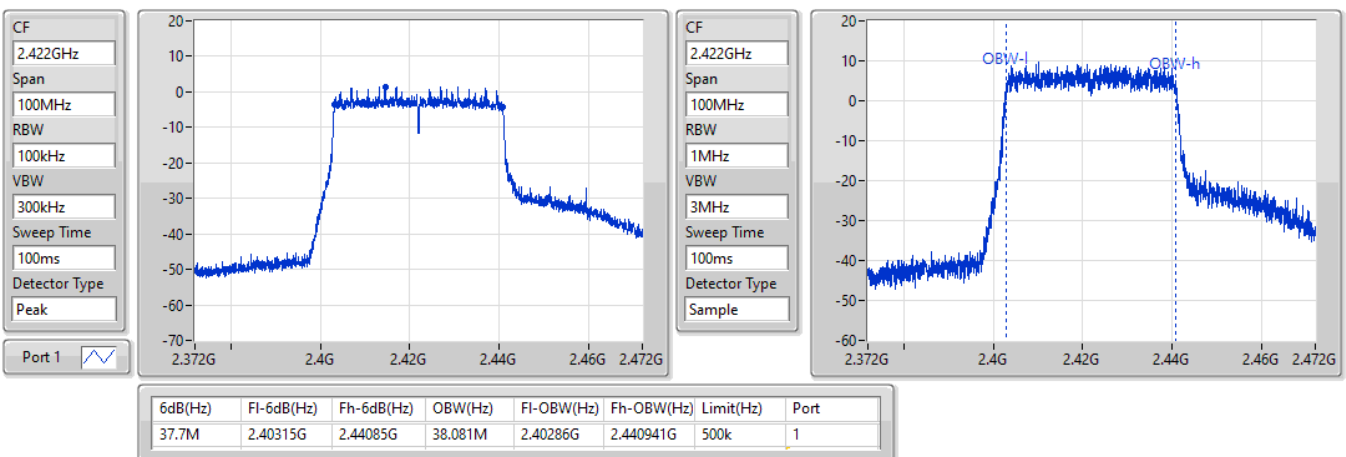


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

2422MHz

15/02/2022

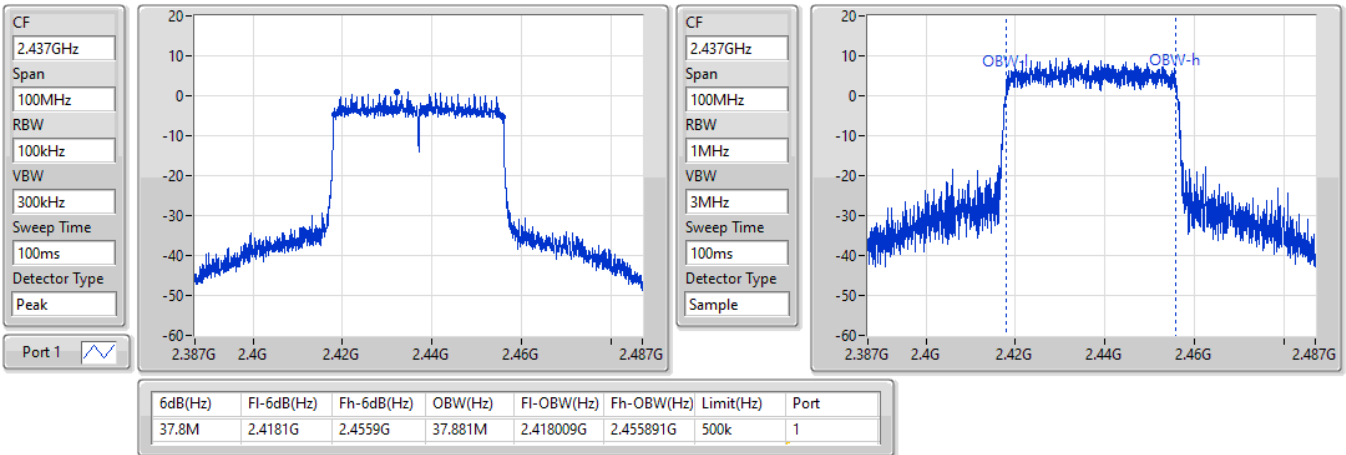


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

2437MHz

15/02/2022

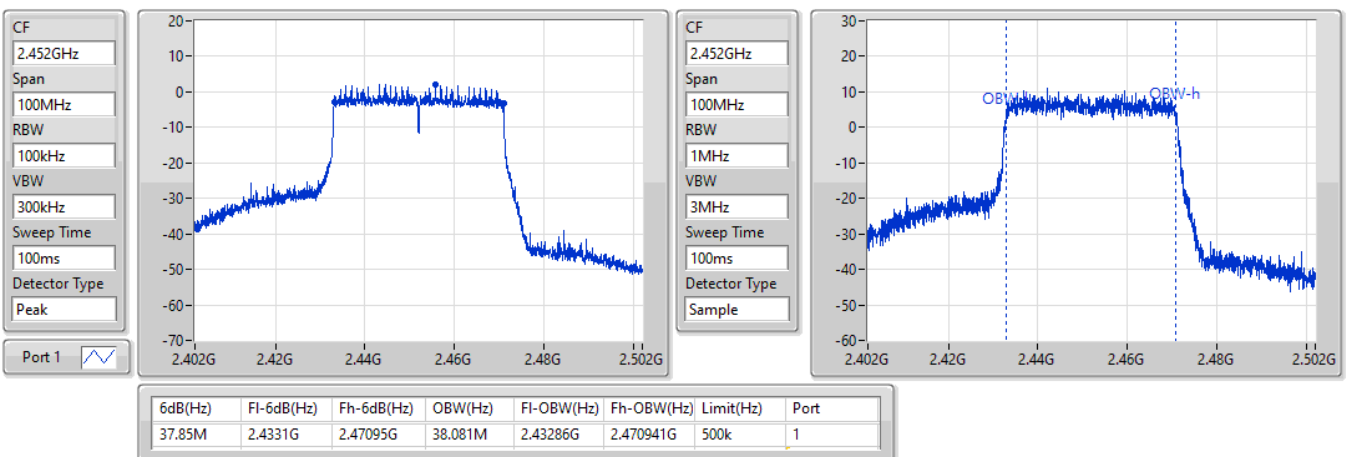


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

2452MHz

15/02/2022





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)_1TX	7.075M	12.419M	12M4G1D	6.55M	11.844M
802.11g_Nss1,(6Mbps)_1TX	16.325M	21.039M	21M0D1D	16.325M	16.942M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.95M	19.39M	19M4D1D	18.825M	19.09M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.85M	38.131M	38M1D1D	37.65M	37.881M

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)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	6.55M	11.844M
2437MHz	Pass	500k	7.075M	12.419M
2462MHz	Pass	500k	6.575M	11.969M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.325M	16.942M
2437MHz	Pass	500k	16.325M	21.039M
2462MHz	Pass	500k	16.325M	17.016M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	18.95M	19.115M
2437MHz	Pass	500k	18.825M	19.39M
2462MHz	Pass	500k	18.9M	19.09M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	37.7M	38.031M
2437MHz	Pass	500k	37.85M	37.881M
2452MHz	Pass	500k	37.65M	38.131M

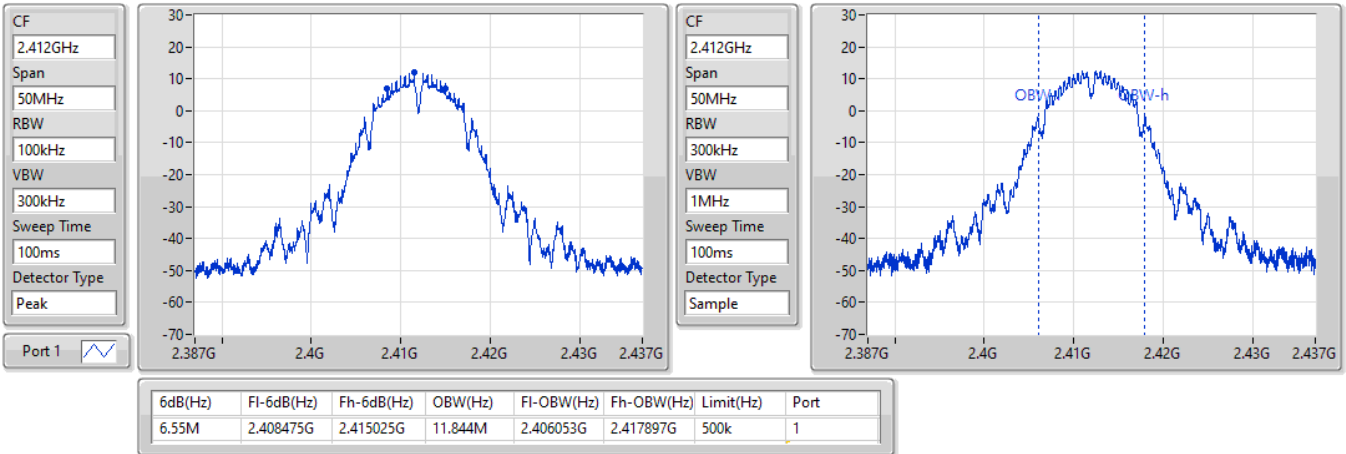
Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

15/02/2022

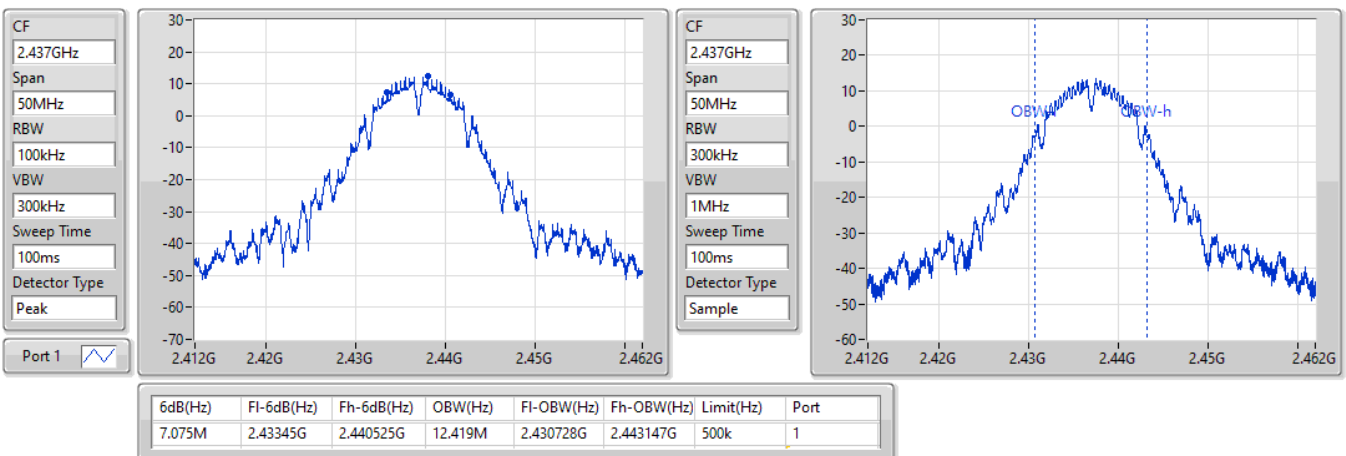


802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

15/02/2022

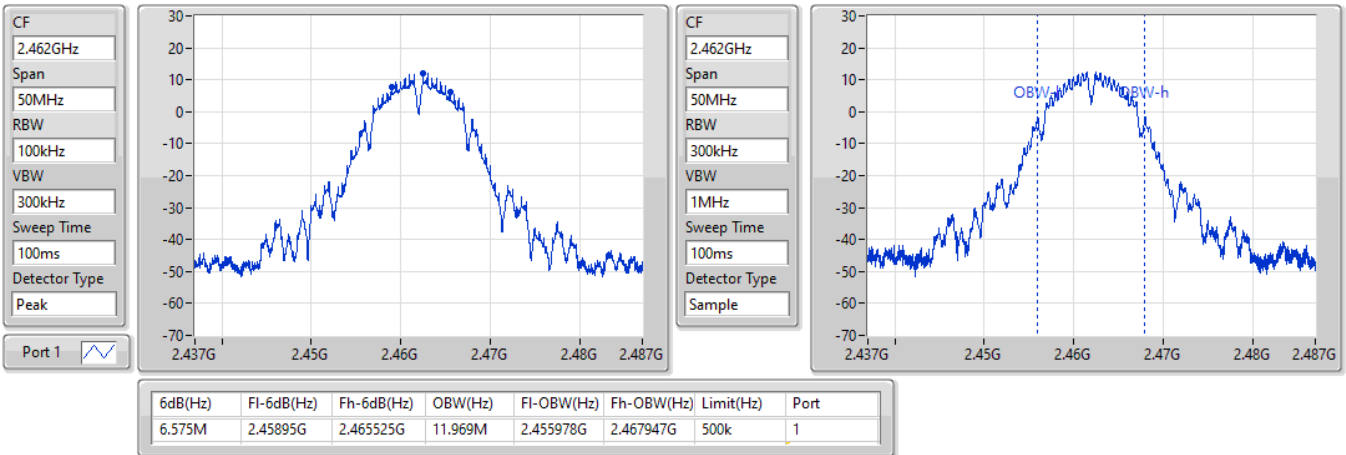


802.11b_Nss1,(1Mbps)_1TX

EBW

2462MHz

15/02/2022

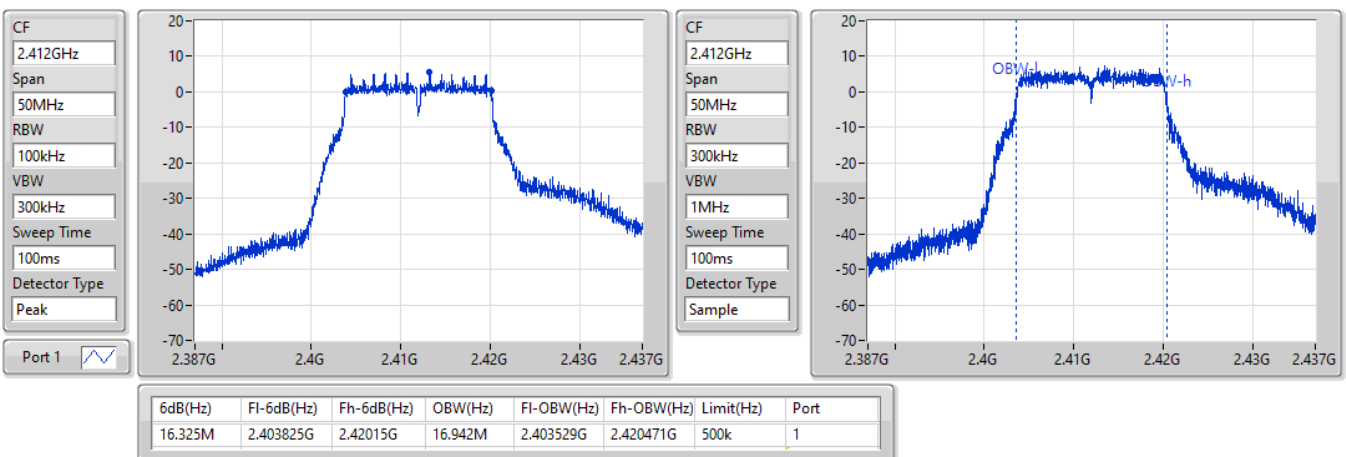


802.11g_Nss1,(6Mbps)_1TX

EBW

2412MHz

15/02/2022

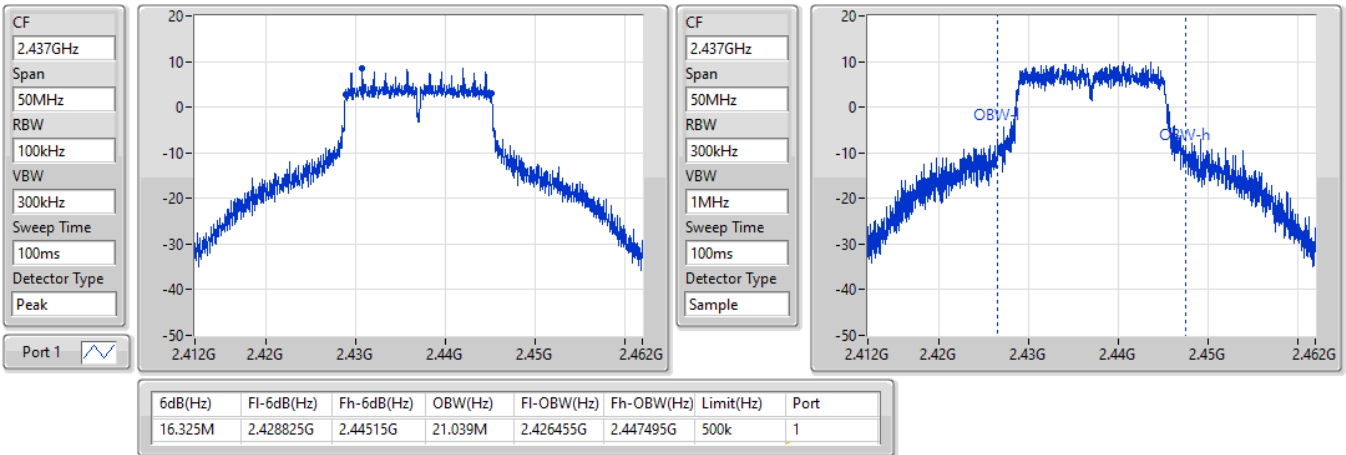


802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

15/02/2022

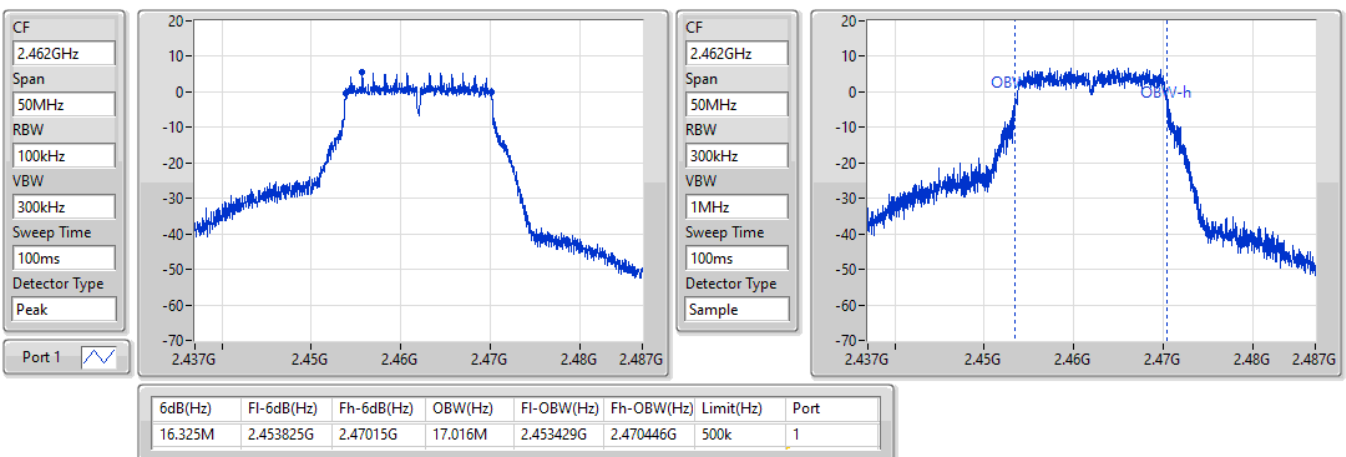


802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

15/02/2022

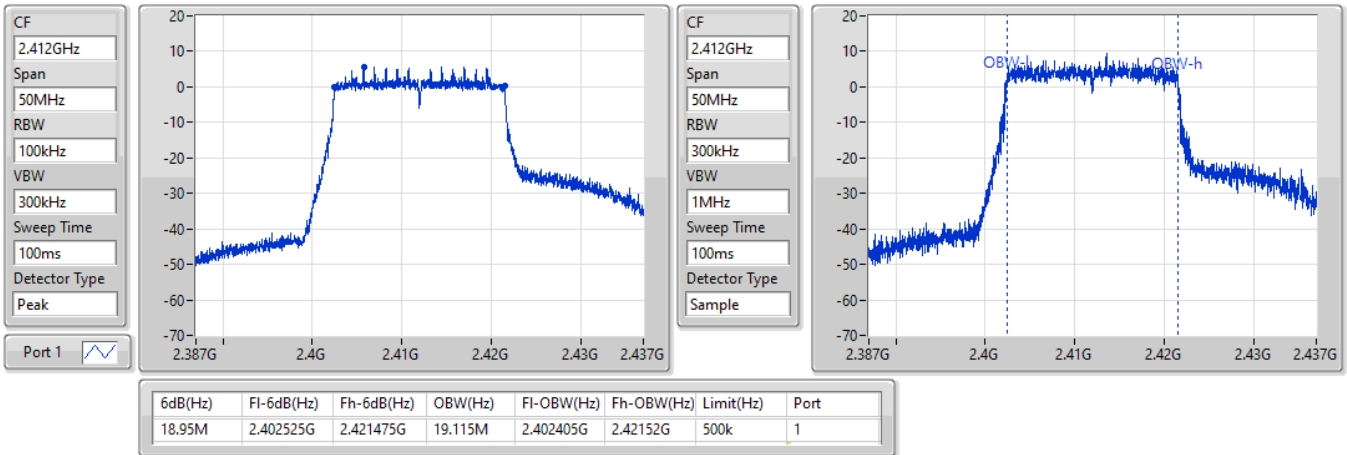


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2412MHz

15/02/2022

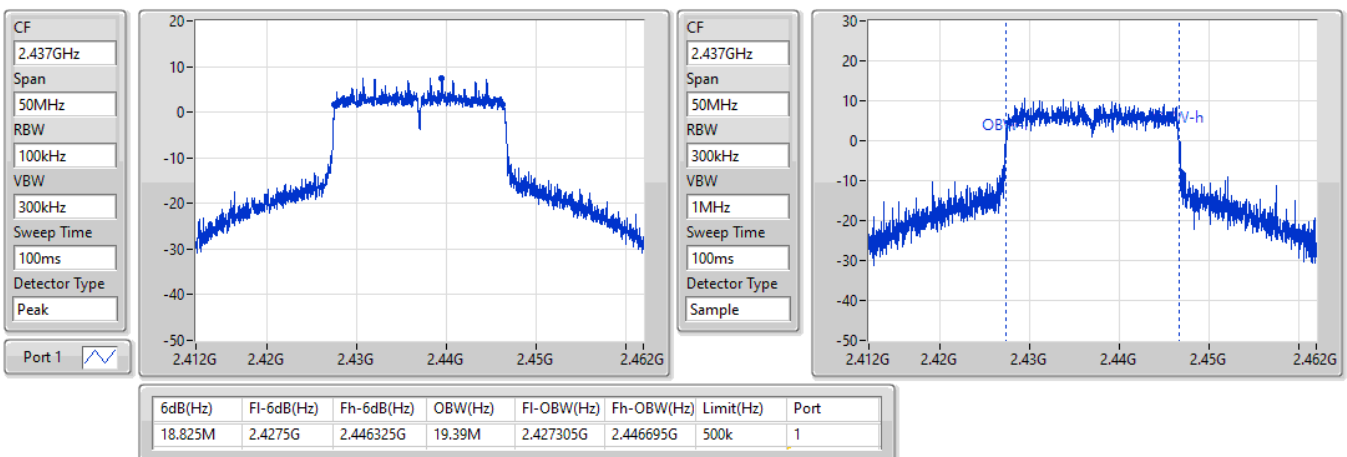


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2437MHz

15/02/2022

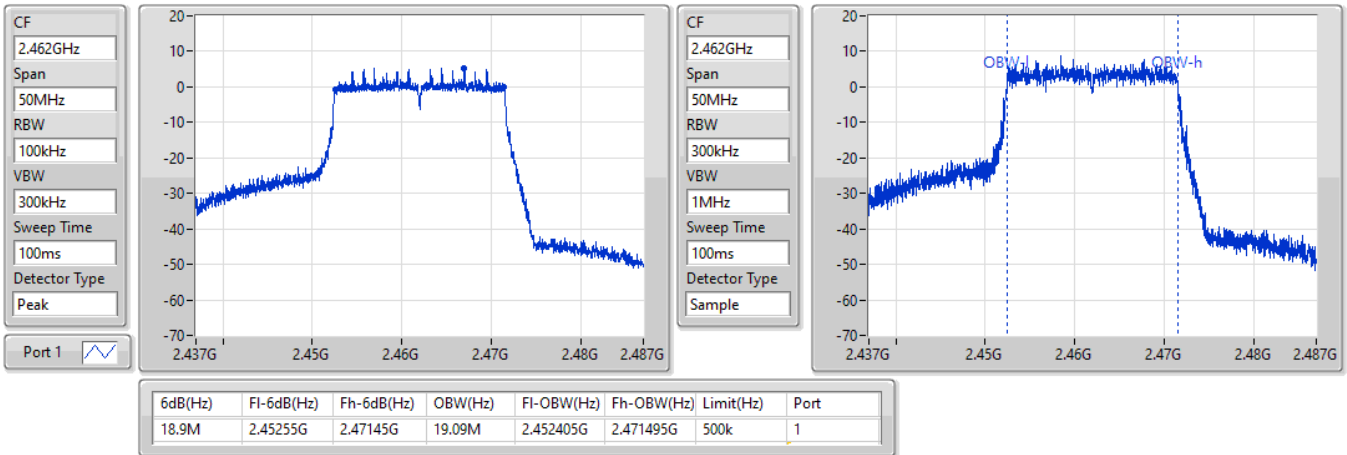


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2462MHz

15/02/2022

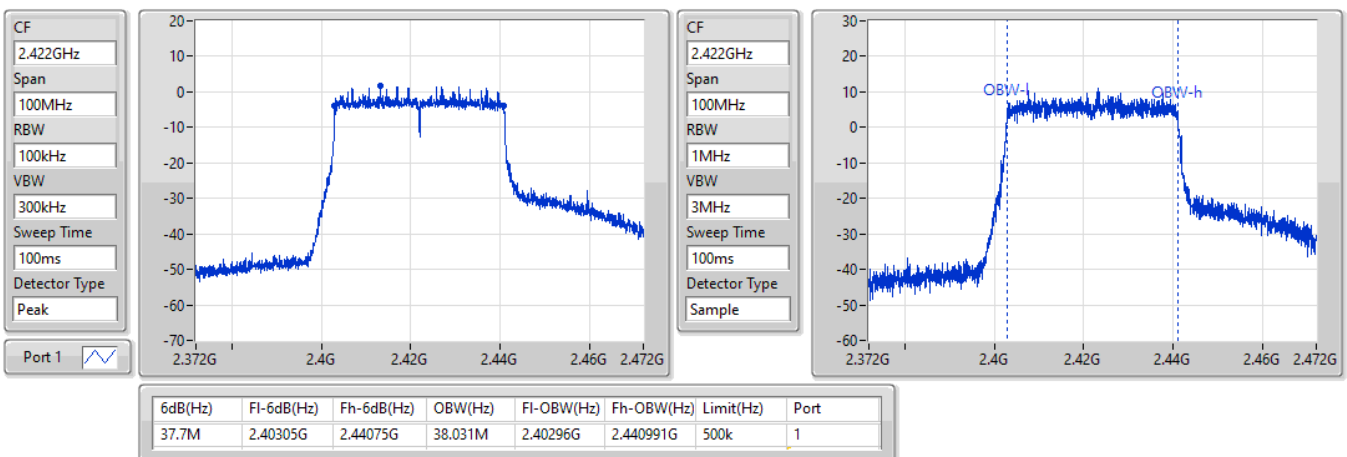


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

2422MHz

15/02/2022

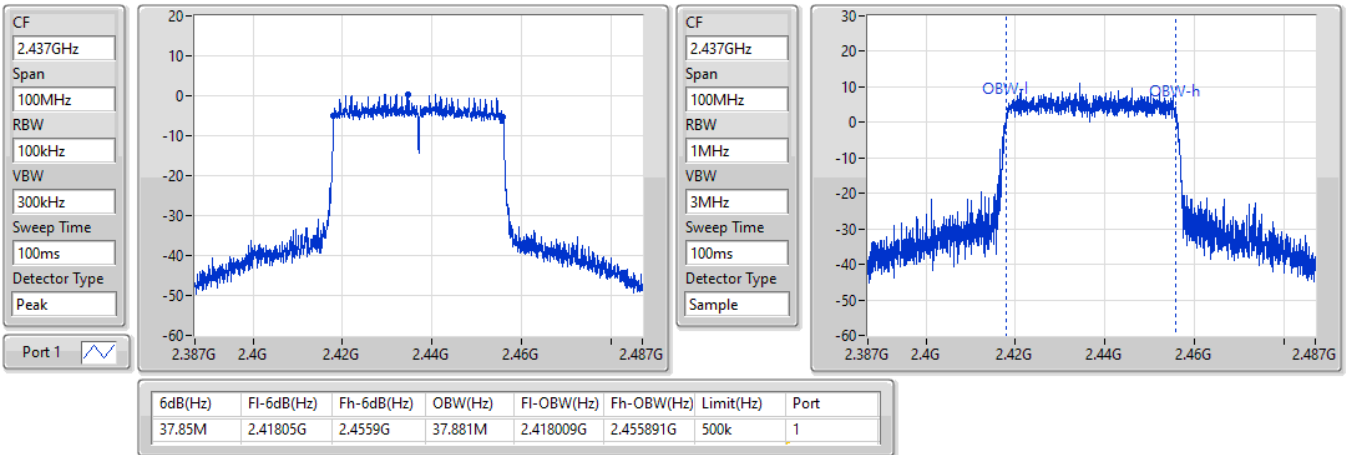


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

2437MHz

15/02/2022

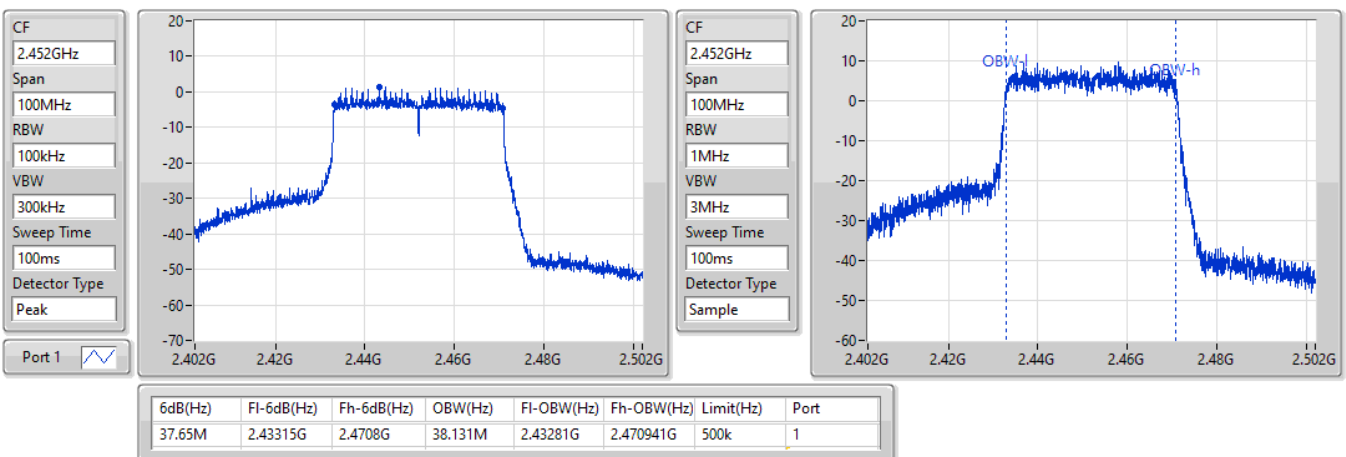


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

2452MHz

15/02/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	21.72	0.14859
802.11g_Nss1,(6Mbps)_1TX	19.76	0.09462
802.11ax HEW20_Nss1,(MCS0)_1TX	19.12	0.08166
802.11ax HEW40_Nss1,(MCS0)_1TX	16.42	0.04385



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.00	20.34	20.34	30.00
2437MHz	Pass	4.00	21.72	21.72	30.00
2462MHz	Pass	4.00	19.92	19.92	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.00	17.56	17.56	30.00
2437MHz	Pass	4.00	19.76	19.76	30.00
2462MHz	Pass	4.00	16.99	16.99	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	4.00	17.29	17.29	30.00
2437MHz	Pass	4.00	19.12	19.12	30.00
2462MHz	Pass	4.00	16.97	16.97	30.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	4.00	15.83	15.83	30.00
2437MHz	Pass	4.00	15.46	15.46	30.00
2452MHz	Pass	4.00	16.42	16.42	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	20.95	0.12445
802.11g_Nss1,(6Mbps)_1TX	19.64	0.09204
802.11ax HEW20_Nss1,(MCS0)_1TX	18.97	0.07889
802.11ax HEW40_Nss1,(MCS0)_1TX	15.93	0.03917

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	8.00	20.07	20.07	28.00
2437MHz	Pass	8.00	20.95	20.95	28.00
2462MHz	Pass	8.00	19.95	19.95	28.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	8.00	16.80	16.80	28.00
2437MHz	Pass	8.00	19.64	19.64	28.00
2462MHz	Pass	8.00	16.53	16.53	28.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	8.00	16.84	16.84	28.00
2437MHz	Pass	8.00	18.97	18.97	28.00
2462MHz	Pass	8.00	16.15	16.15	28.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	8.00	15.93	15.93	28.00
2437MHz	Pass	8.00	15.07	15.07	28.00
2452MHz	Pass	8.00	15.60	15.60	28.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-1.00
802.11g_Nss1,(6Mbps)_1TX	-5.99
802.11ax HEW20_Nss1,(MCS0)_1TX	-7.30
802.11ax HEW40_Nss1,(MCS0)_1TX	-12.65

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.00	-2.04	-2.04	8.00
2437MHz	Pass	4.00	-1.00	-1.00	8.00
2462MHz	Pass	4.00	-1.92	-1.92	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.00	-7.58	-7.58	8.00
2437MHz	Pass	4.00	-5.99	-5.99	8.00
2462MHz	Pass	4.00	-8.43	-8.43	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	4.00	-9.87	-9.87	8.00
2437MHz	Pass	4.00	-7.30	-7.30	8.00
2462MHz	Pass	4.00	-10.17	-10.17	8.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	4.00	-14.10	-14.10	8.00
2437MHz	Pass	4.00	-13.61	-13.61	8.00
2452MHz	Pass	4.00	-12.65	-12.65	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)_1TX

PSD

2412MHz

15/02/2022

CF
2.412GHz

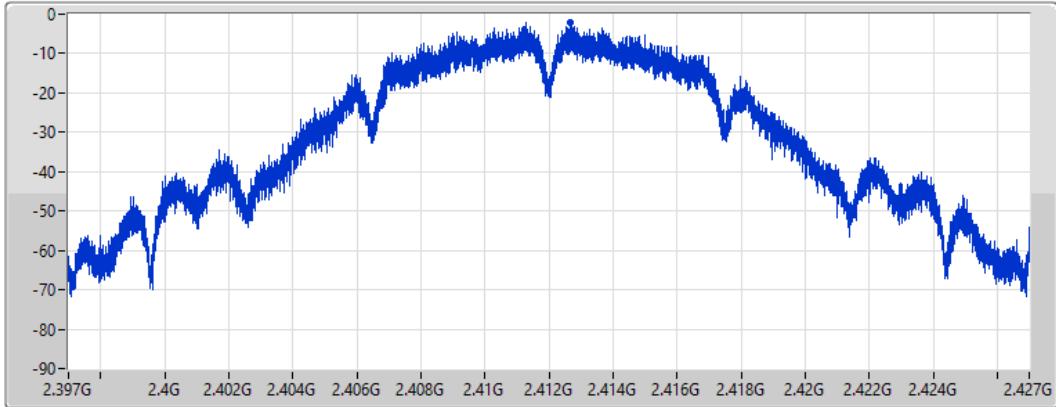
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.04	-2.04	-2.04

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

15/02/2022

CF
2.437GHz

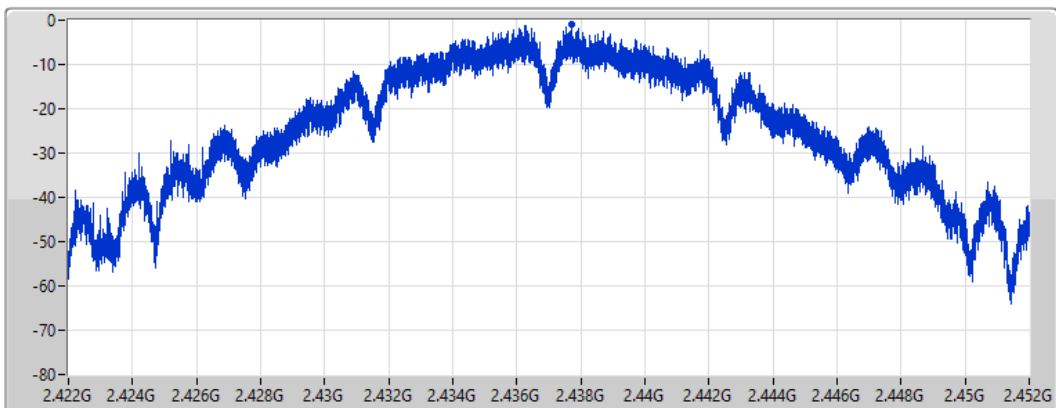
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.00	-1.00	-1.00

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

15/02/2022

CF
2.462GHz

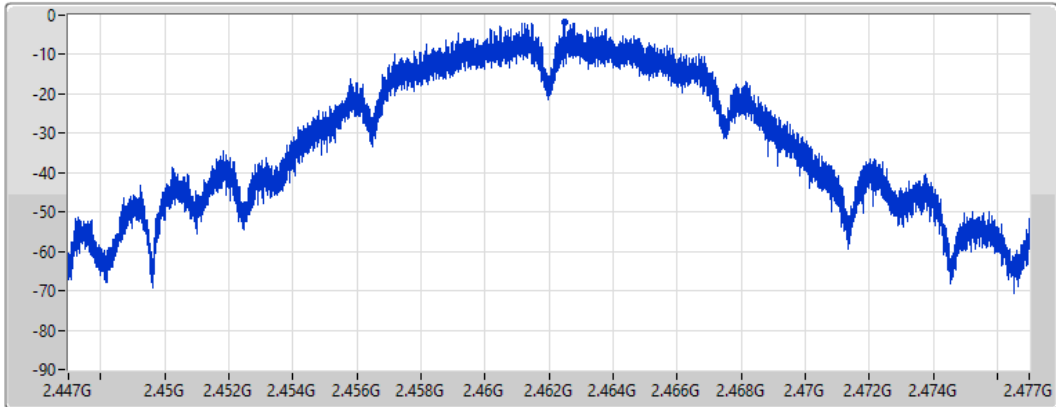
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.92	-1.92	-1.92

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

15/02/2022

CF
2.412GHz

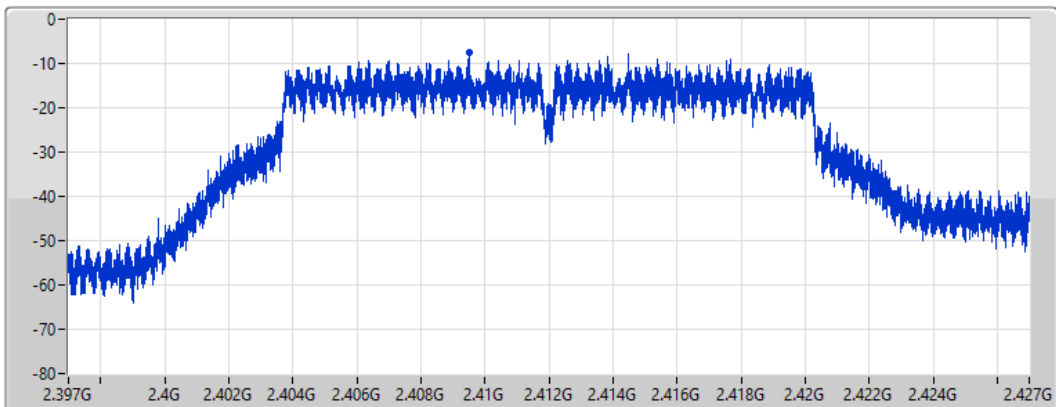
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.58	-7.58	-7.58

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

15/02/2022

CF
2.437GHz

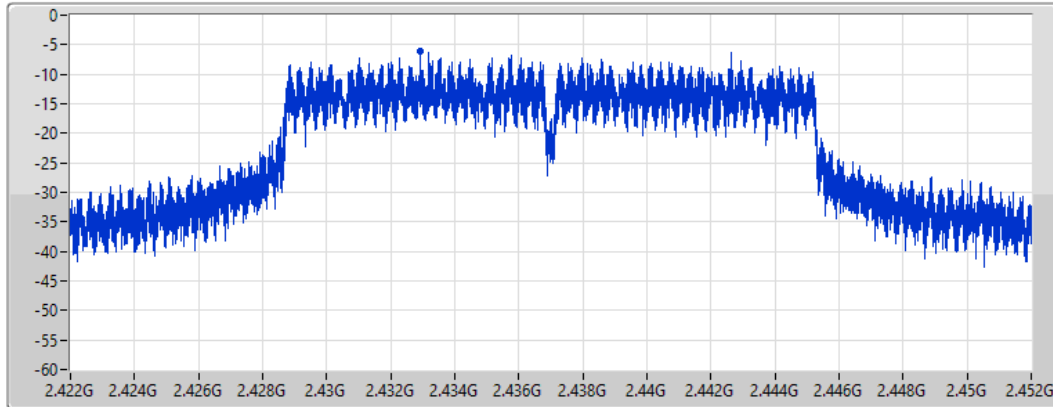
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.99	-5.99	-5.99

802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

15/02/2022

CF
2.462GHz

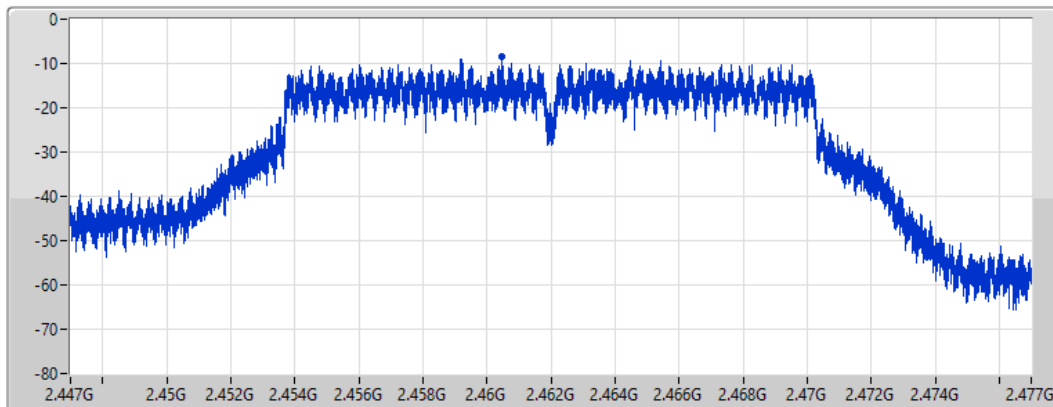
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.43	-8.43	-8.43

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2412MHz

15/02/2022

CF
2.412GHz

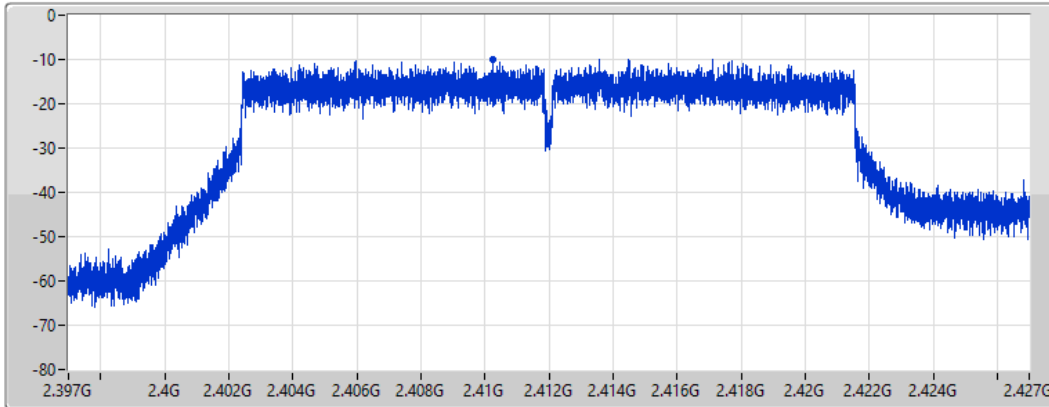
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.87	-9.87	-9.87

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2437MHz

15/02/2022

CF
2.437GHz

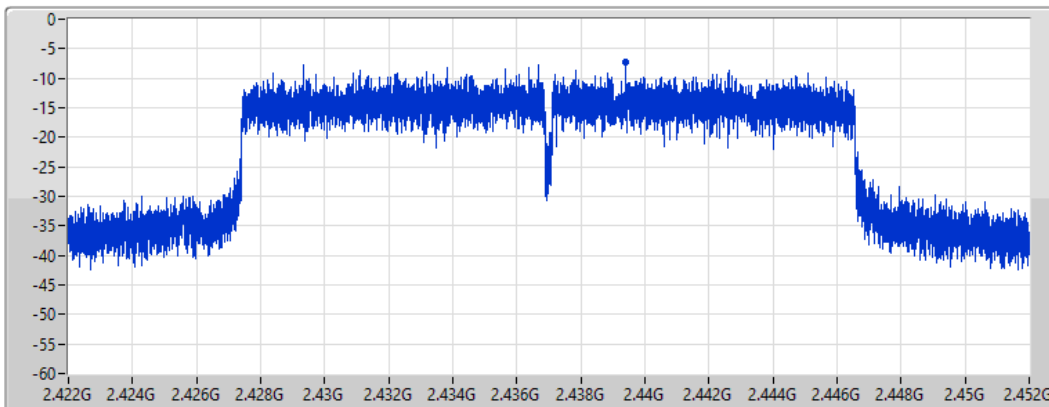
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.30	-7.30	-7.30

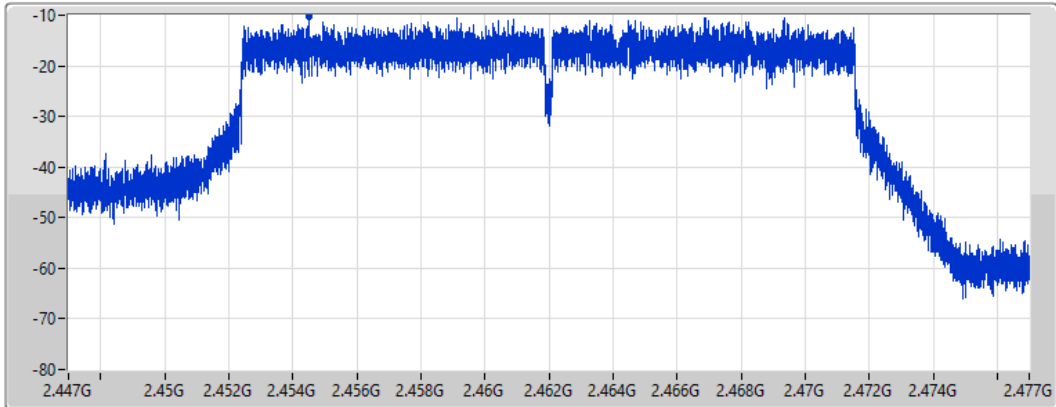
802.11ax HEW20_Nss1,(MCS0)_1TX


PSD

2462MHz

15/02/2022

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



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.17	-10.17	-10.17

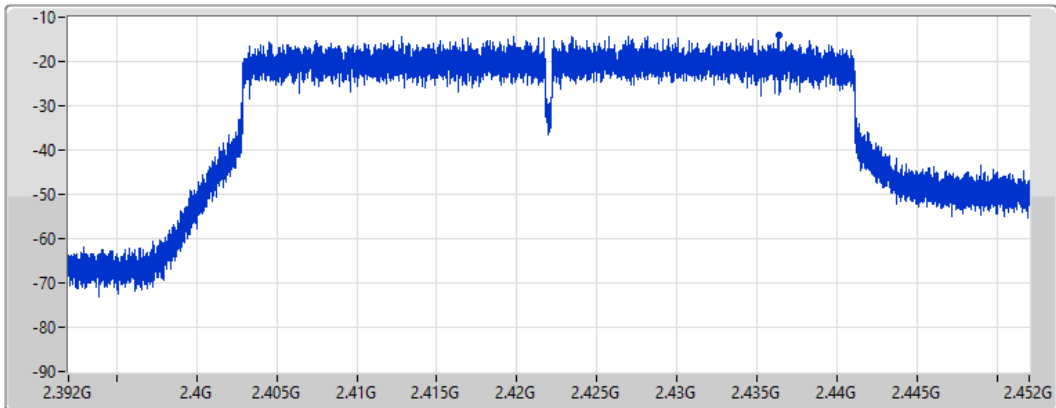
802.11ax HEW40_Nss1,(MCS0)_1TX


PSD

2422MHz

15/02/2022

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



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.10	-14.10	-14.10

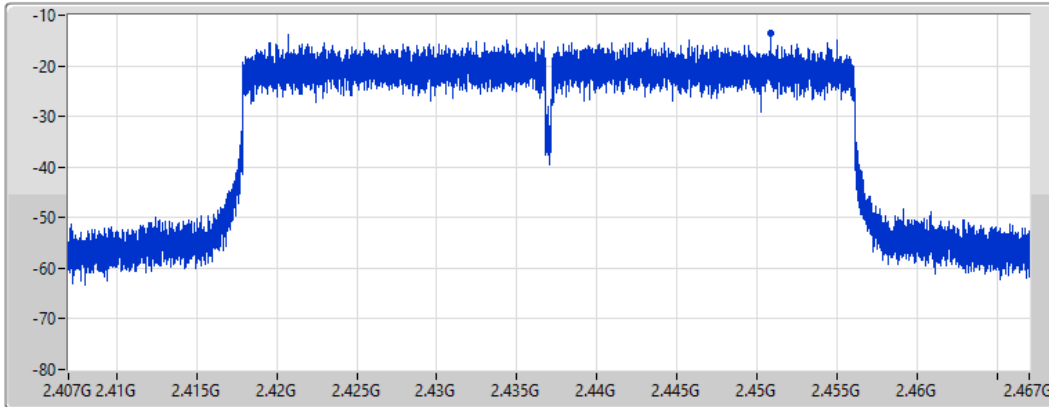
802.11ax HEW40_Nss1,(MCS0)_1TX


PSD

2437MHz

15/02/2022

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



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.61	-13.61	-13.61

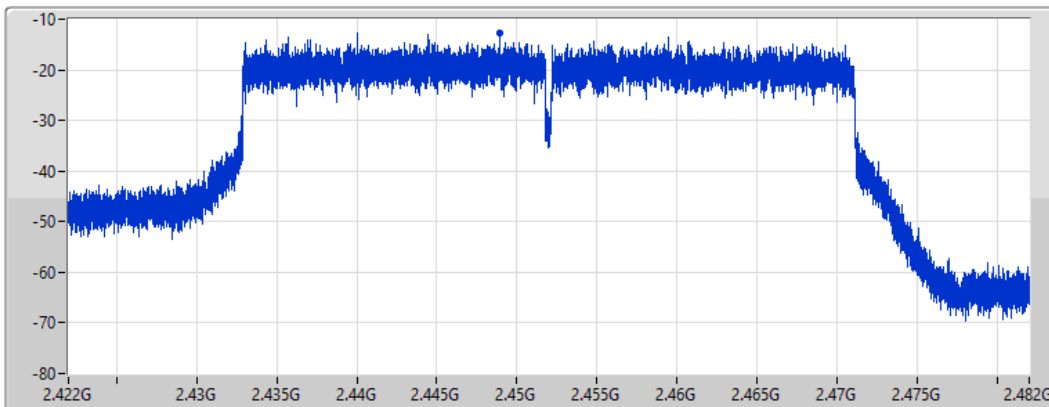
802.11ax HEW40_Nss1,(MCS0)_1TX


PSD

2452MHz

15/02/2022

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



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.65	-12.65	-12.65



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-1.93
802.11g_Nss1,(6Mbps)_1TX	-6.26
802.11ax HEW20_Nss1,(MCS0)_1TX	-6.12
802.11ax HEW40_Nss1,(MCS0)_1TX	-12.44

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	8.00	-1.93	-1.93	6.00
2437MHz	Pass	8.00	-2.00	-2.00	6.00
2462MHz	Pass	8.00	-2.22	-2.22	6.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	8.00	-8.11	-8.11	6.00
2437MHz	Pass	8.00	-6.26	-6.26	6.00
2462MHz	Pass	8.00	-8.28	-8.28	6.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	8.00	-8.85	-8.85	6.00
2437MHz	Pass	8.00	-6.12	-6.12	6.00
2462MHz	Pass	8.00	-10.77	-10.77	6.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	8.00	-12.44	-12.44	6.00
2437MHz	Pass	8.00	-15.00	-15.00	6.00
2452MHz	Pass	8.00	-12.97	-12.97	6.00

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)_1TX

PSD

2412MHz

15/02/2022

CF
2.412GHz

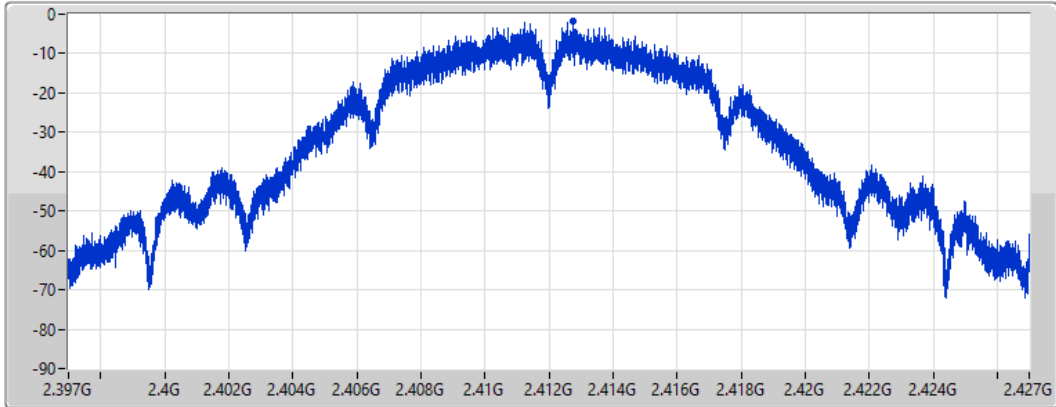
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.93	-1.93	-1.93

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

15/02/2022

CF
2.437GHz

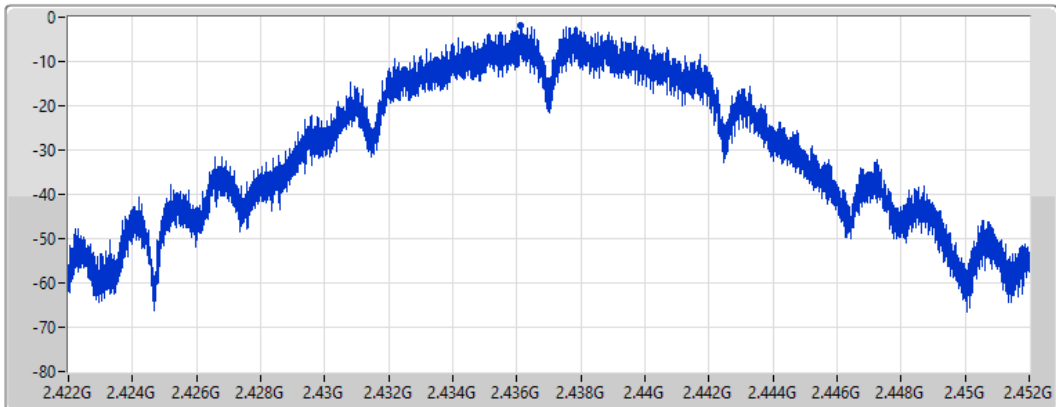
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.00	-2.00	-2.00

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

15/02/2022

CF
2.462GHz

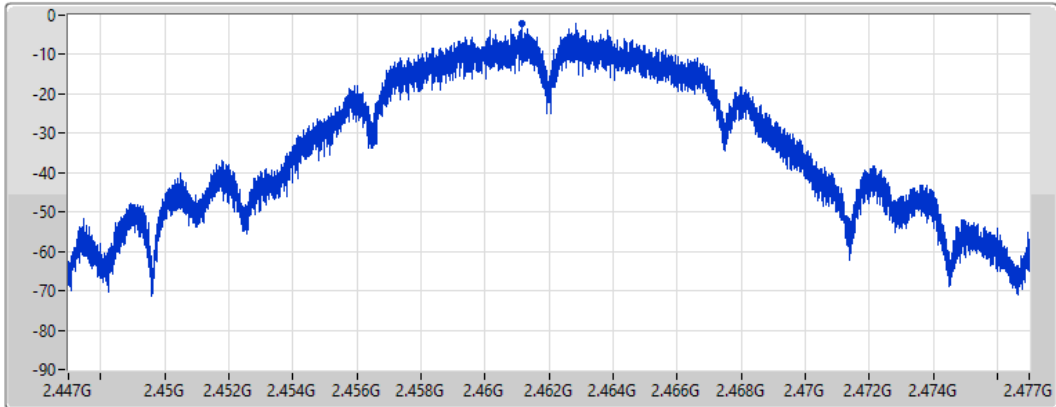
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.22	-2.22	-2.22

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

15/02/2022

CF
2.412GHz

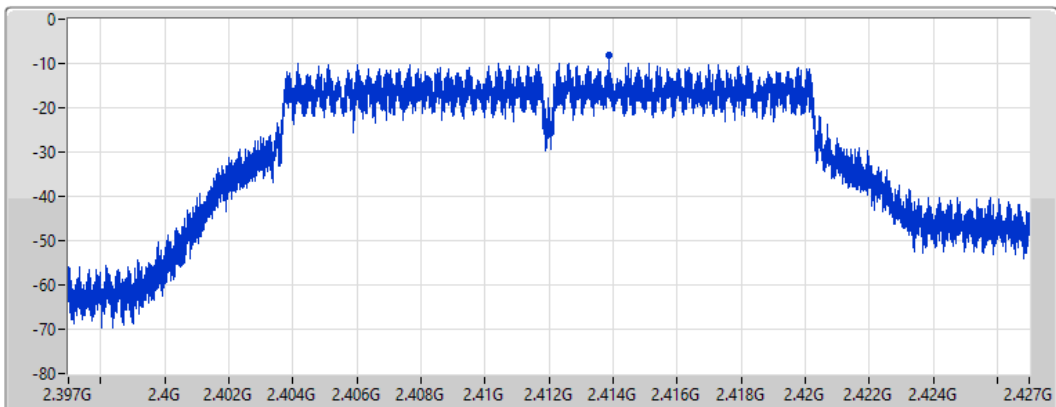
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.11	-8.11	-8.11

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

15/02/2022

CF
2.437GHz

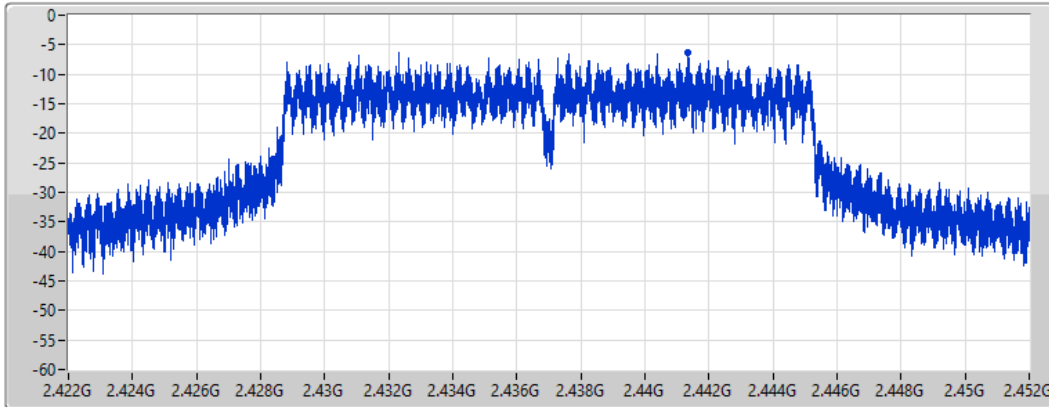
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.26	-6.26	-6.26

802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

15/02/2022

CF
2.462GHz

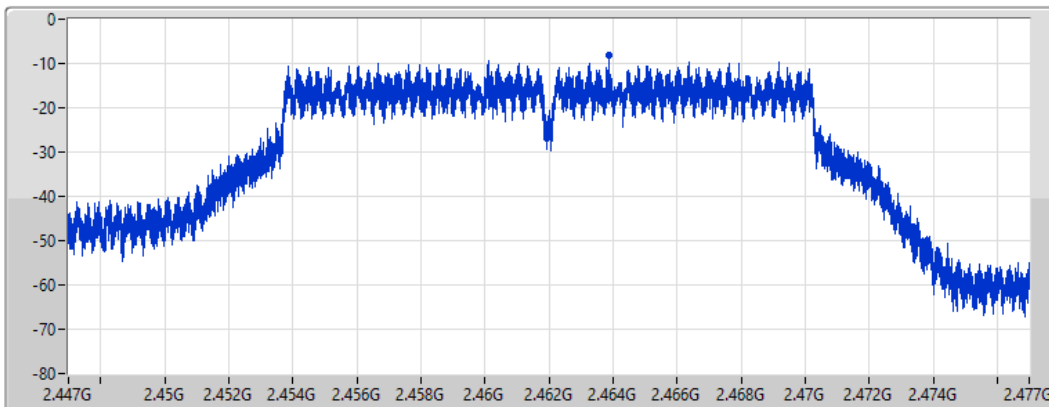
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.28	-8.28	-8.28

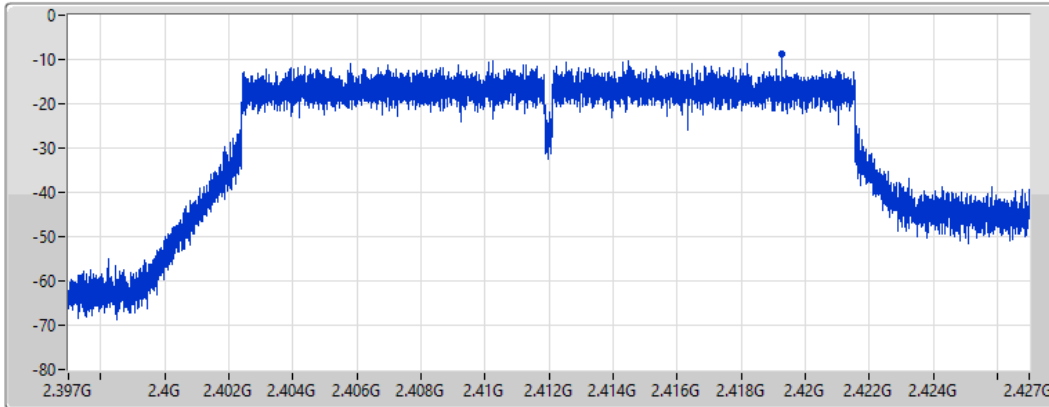
802.11ax HEW20_Nss1,(MCS0)_1TX


PSD

2412MHz

15/02/2022

CF
2.412GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.85	-8.85	-8.85

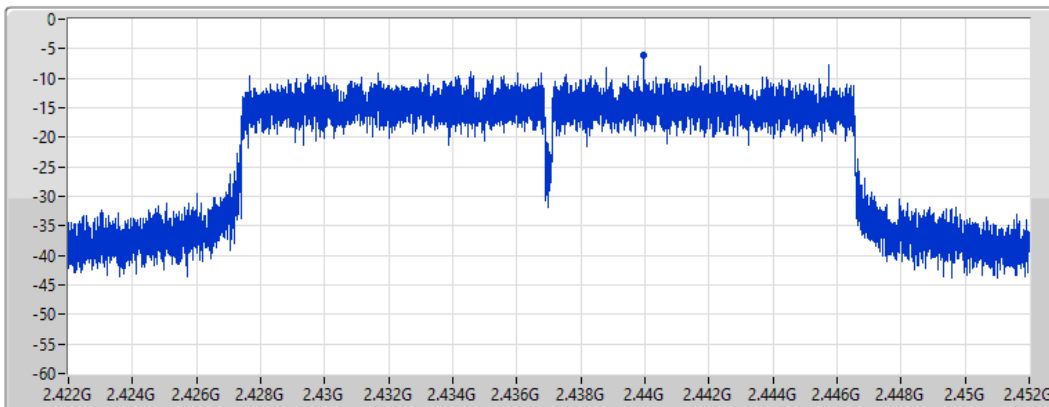
802.11ax HEW20_Nss1,(MCS0)_1TX


PSD

2437MHz

15/02/2022

CF
2.437GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.12	-6.12	-6.12

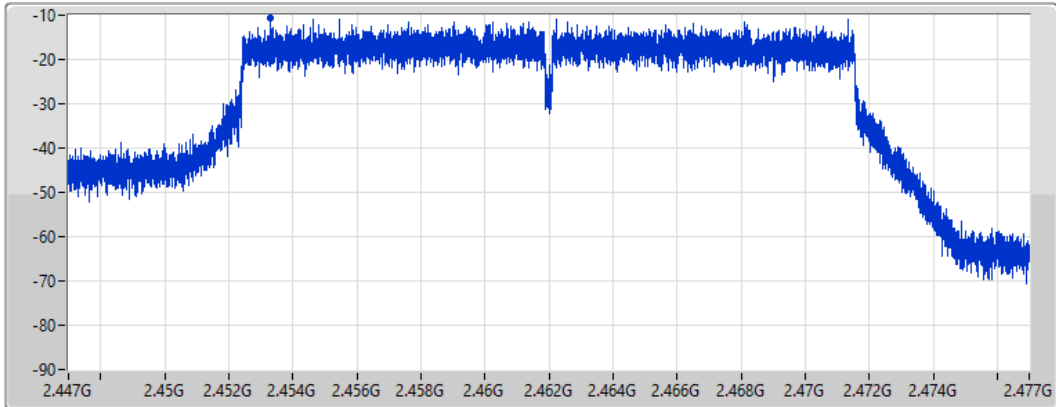
802.11ax HEW20_Nss1,(MCS0)_1TX


PSD

2462MHz

15/02/2022

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



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.77	-10.77	-10.77

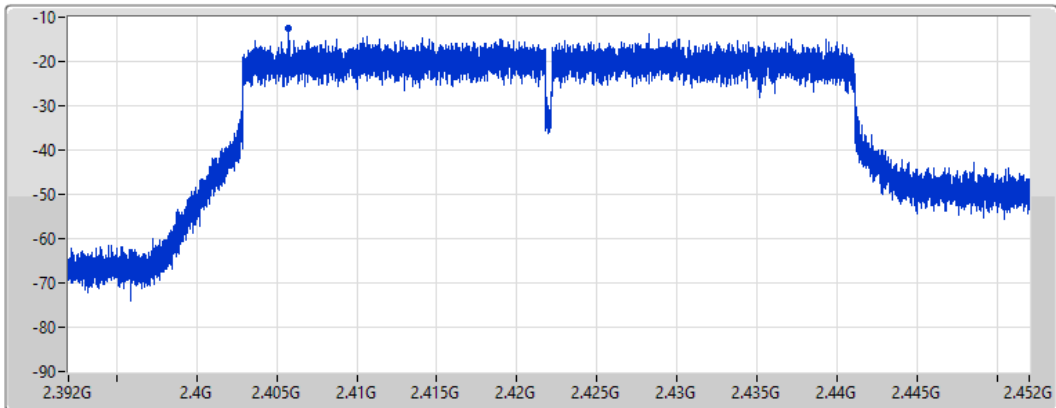
802.11ax HEW40_Nss1,(MCS0)_1TX


PSD

2422MHz

15/02/2022

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



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.44	-12.44	-12.44

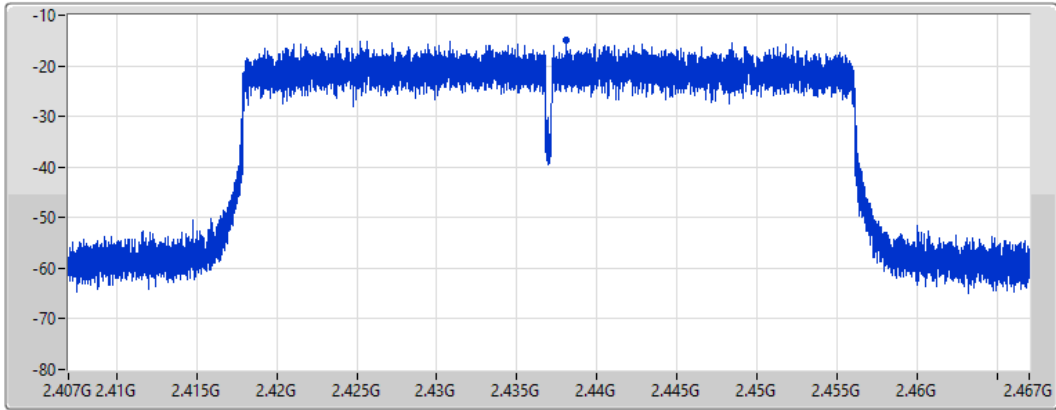
802.11ax HEW40_Nss1,(MCS0)_1TX


PSD

2437MHz

15/02/2022

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



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.00	-15.00	-15.00

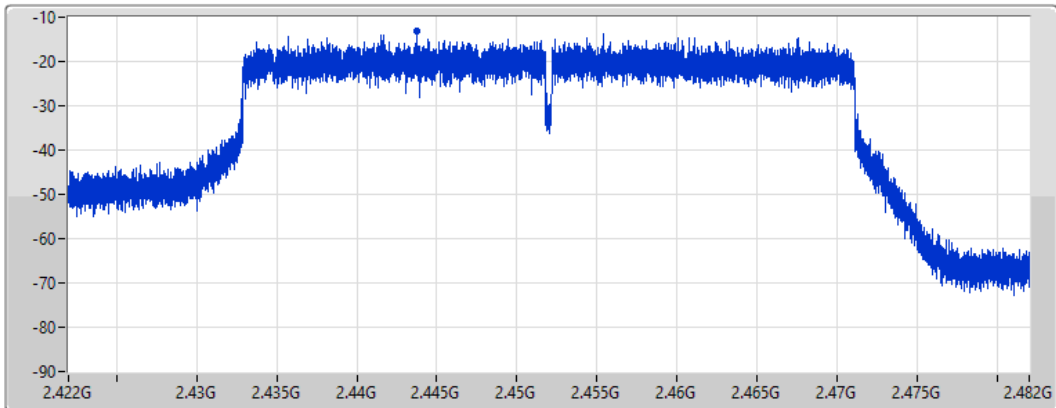
802.11ax HEW40_Nss1,(MCS0)_1TX


PSD

2452MHz

15/02/2022

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



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.97	-12.97	-12.97



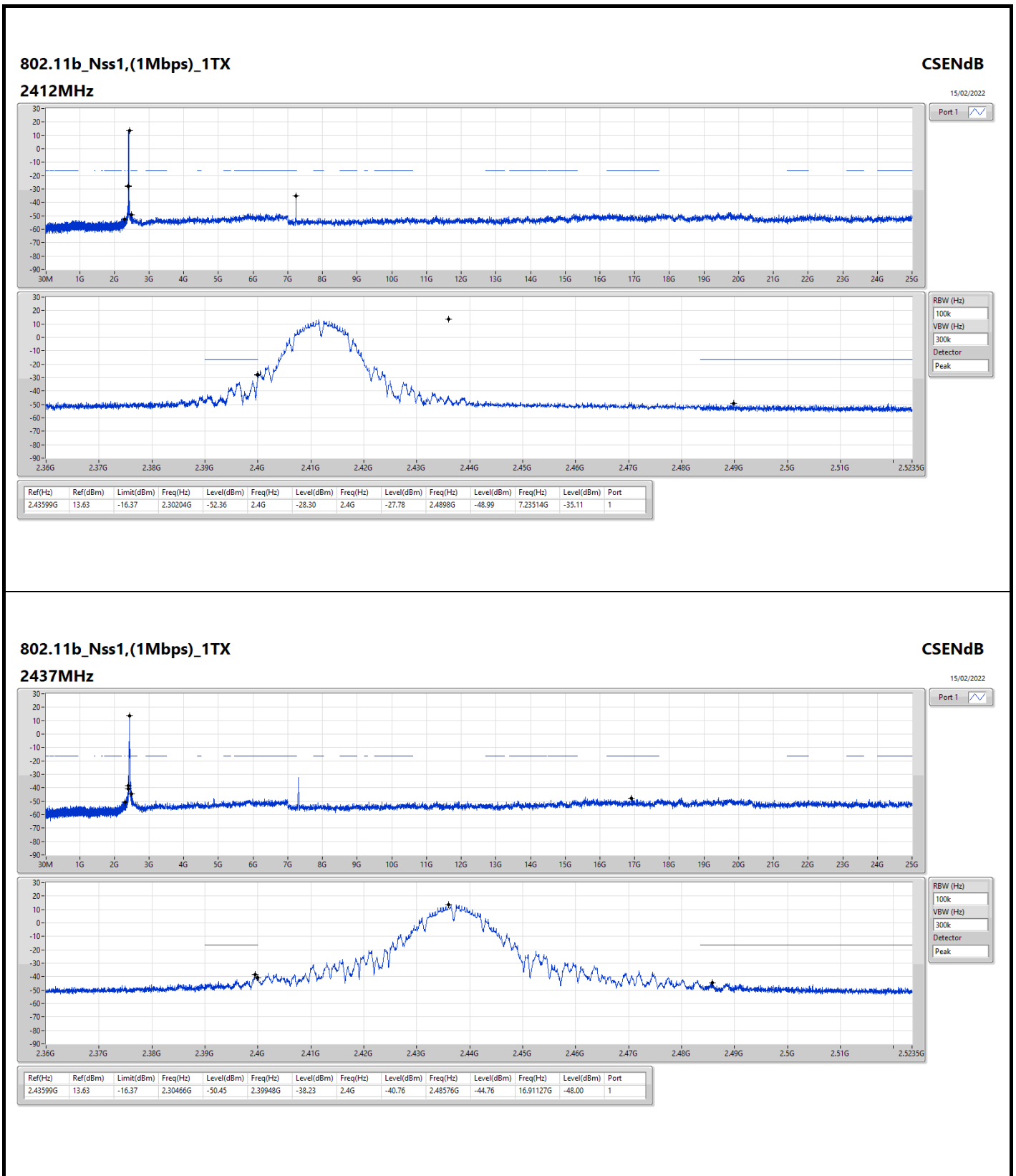
Summary

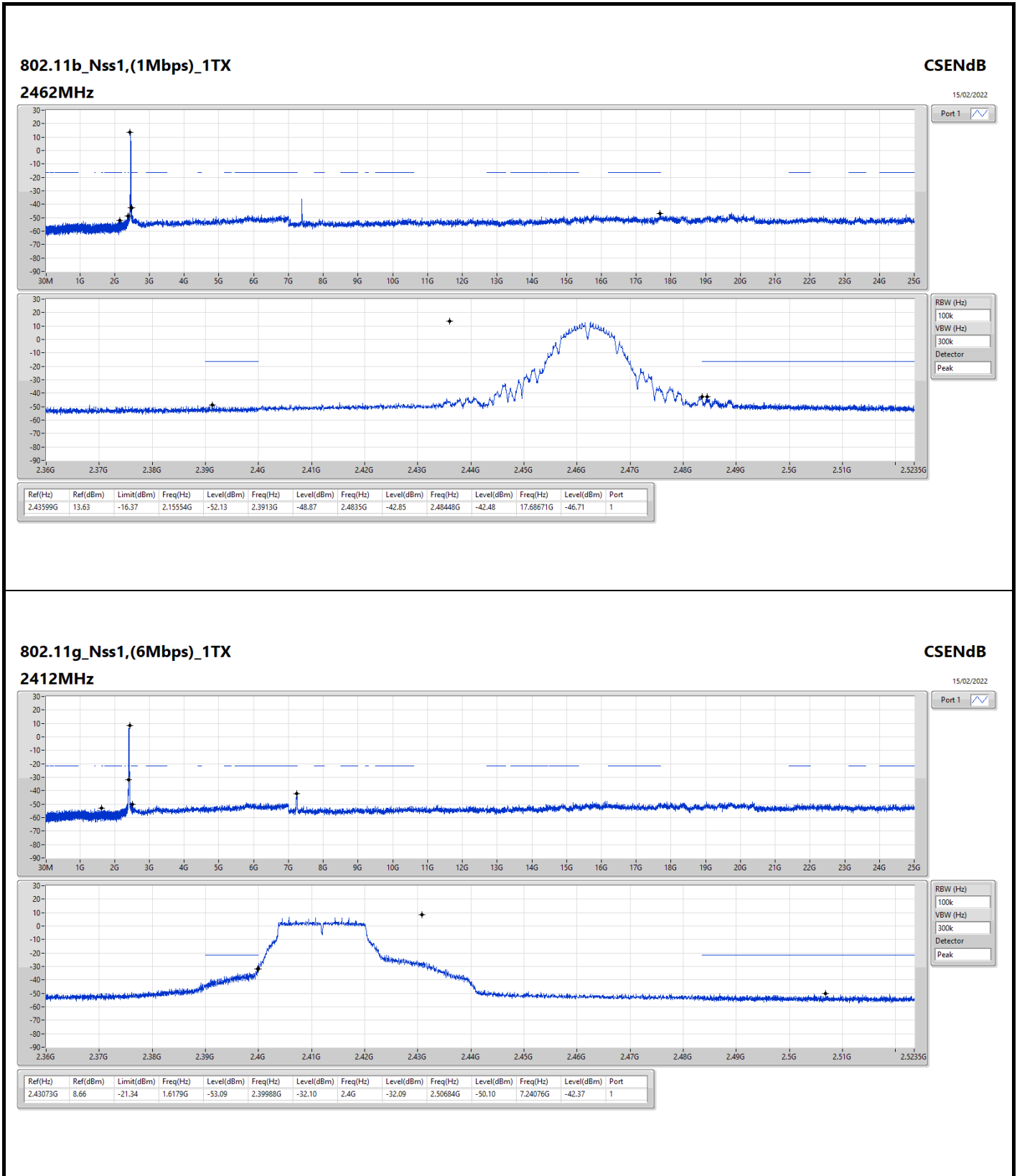
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43599G	13.63	-16.37	2.30204G	-52.36	2.4G	-28.30	2.4G	-27.78	2.4898G	-48.99	7.23514G	-35.11	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43073G	8.66	-21.34	1.6179G	-53.09	2.39988G	-32.10	2.4G	-32.09	2.50684G	-50.10	7.24076G	-42.37	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.43073G	7.62	-22.38	2.19195G	-52.86	2.39996G	-32.69	2.4G	-34.99	2.50528G	-50.46	7.23233G	-43.63	1
802.11ax HEW40_Nss1,(MCS0)_1TX	Pass	2.44325G	2.08	-27.92	907.36M	-53.43	2.39948G	-34.47	2.4G	-33.35	2.49326G	-50.75	17.66326G	-47.51	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)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	13.63	-16.37	2.30204G	-52.36	2.4G	-28.30	2.4G	-27.78	2.4898G	-48.99	7.23514G	-35.11	1
2437MHz	Pass	2.43599G	13.63	-16.37	2.30466G	-50.45	2.39948G	-38.23	2.4G	-40.76	2.48576G	-44.76	16.91127G	-48.00	1
2462MHz	Pass	2.43599G	13.63	-16.37	2.15554G	-52.13	2.3913G	-48.87	2.4835G	-42.85	2.48448G	-42.48	17.68671G	-46.71	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	8.66	-21.34	1.6179G	-53.09	2.39988G	-32.10	2.4G	-32.09	2.50684G	-50.10	7.24076G	-42.37	1
2437MHz	Pass	2.43073G	8.66	-21.34	802.4M	-53.72	2.39886G	-35.50	2.4G	-37.86	2.48356G	-39.97	6.95699G	-47.70	1
2462MHz	Pass	2.43073G	8.66	-21.34	913.07M	-53.10	2.39752G	-49.93	2.4835G	-44.00	2.48414G	-42.88	6.15907G	-48.49	1
802.11ax HEW20_Nss1,(MCSO)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	7.62	-22.38	2.19195G	-52.86	2.39996G	-32.69	2.4G	-34.99	2.50528G	-50.46	7.23233G	-43.63	1
2437MHz	Pass	2.43073G	7.62	-22.38	2.18117G	-52.45	2.39866G	-35.20	2.4G	-35.60	2.48568G	-41.20	17.69795G	-47.50	1
2462MHz	Pass	2.43073G	7.62	-22.38	2.19457G	-52.80	2.39168G	-50.61	2.4835G	-42.68	2.48378G	-40.81	17.69233G	-47.69	1
802.11ax HEW40_Nss1,(MCSO)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44325G	2.08	-27.92	907.36M	-53.43	2.39948G	-34.47	2.4G	-33.35	2.49326G	-50.75	17.66326G	-47.51	1
2437MHz	Pass	2.44325G	2.08	-27.92	2.30082G	-53.22	2.39952G	-33.38	2.4G	-38.77	2.48566G	-41.94	16.47974G	-48.63	1
2452MHz	Pass	2.44325G	2.08	-27.92	883.03M	-53.42	2.39952G	-35.96	2.4G	-40.44	2.48446G	-39.92	6.96666G	-48.27	1



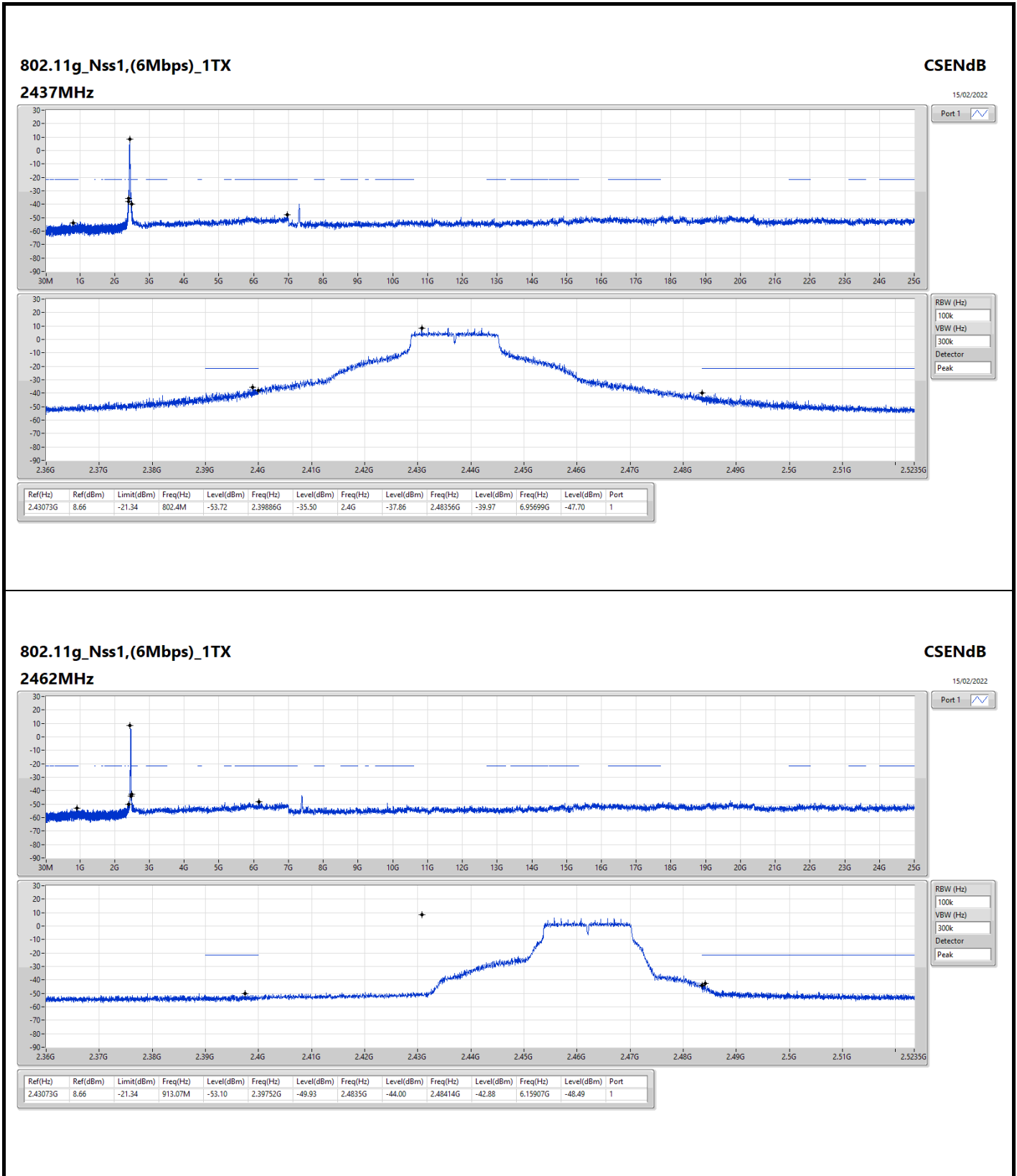


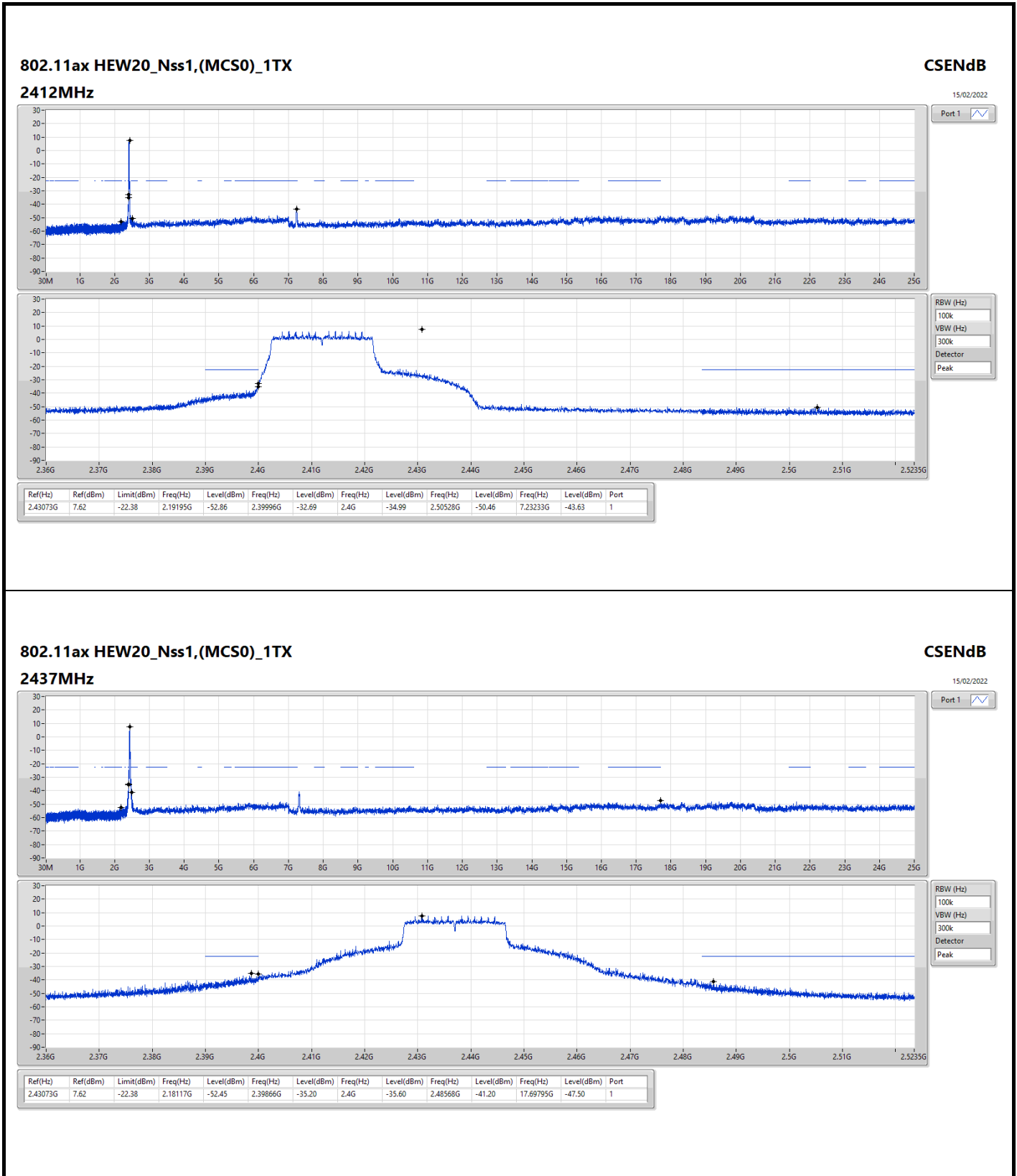
802.11g_Nss1,(6Mbps)_1TX

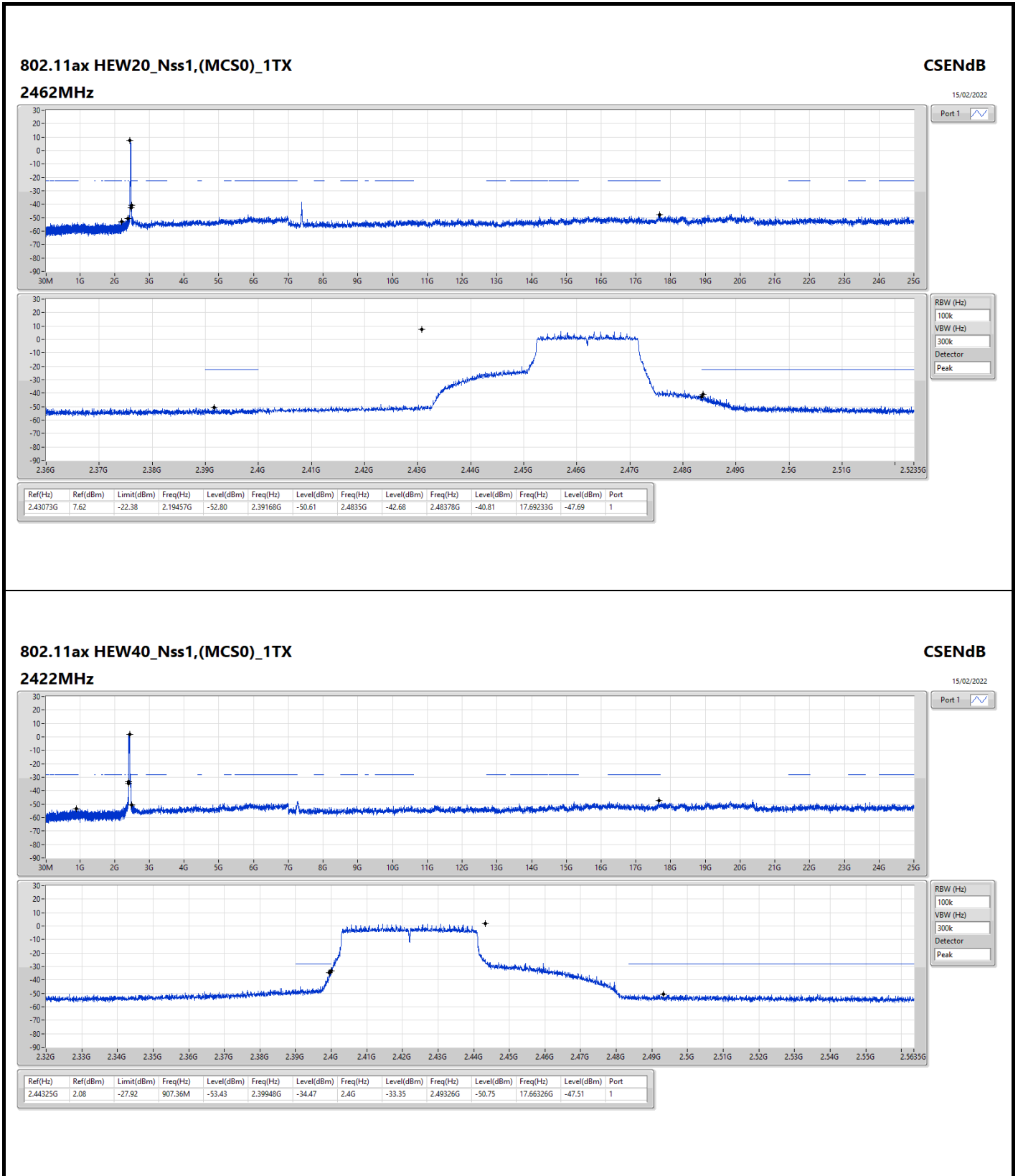
2412MHz

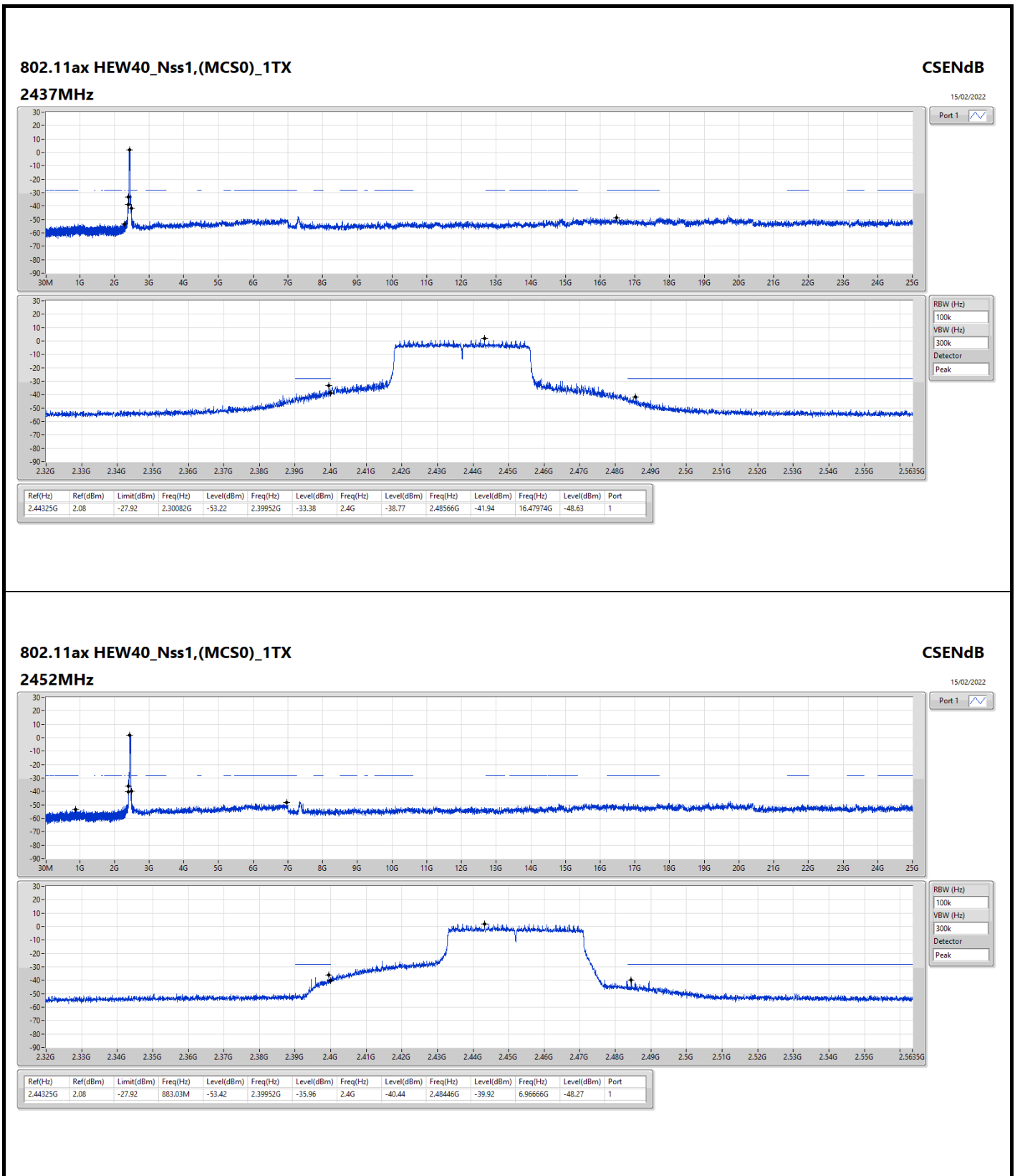
CSENdB

15/02/2022











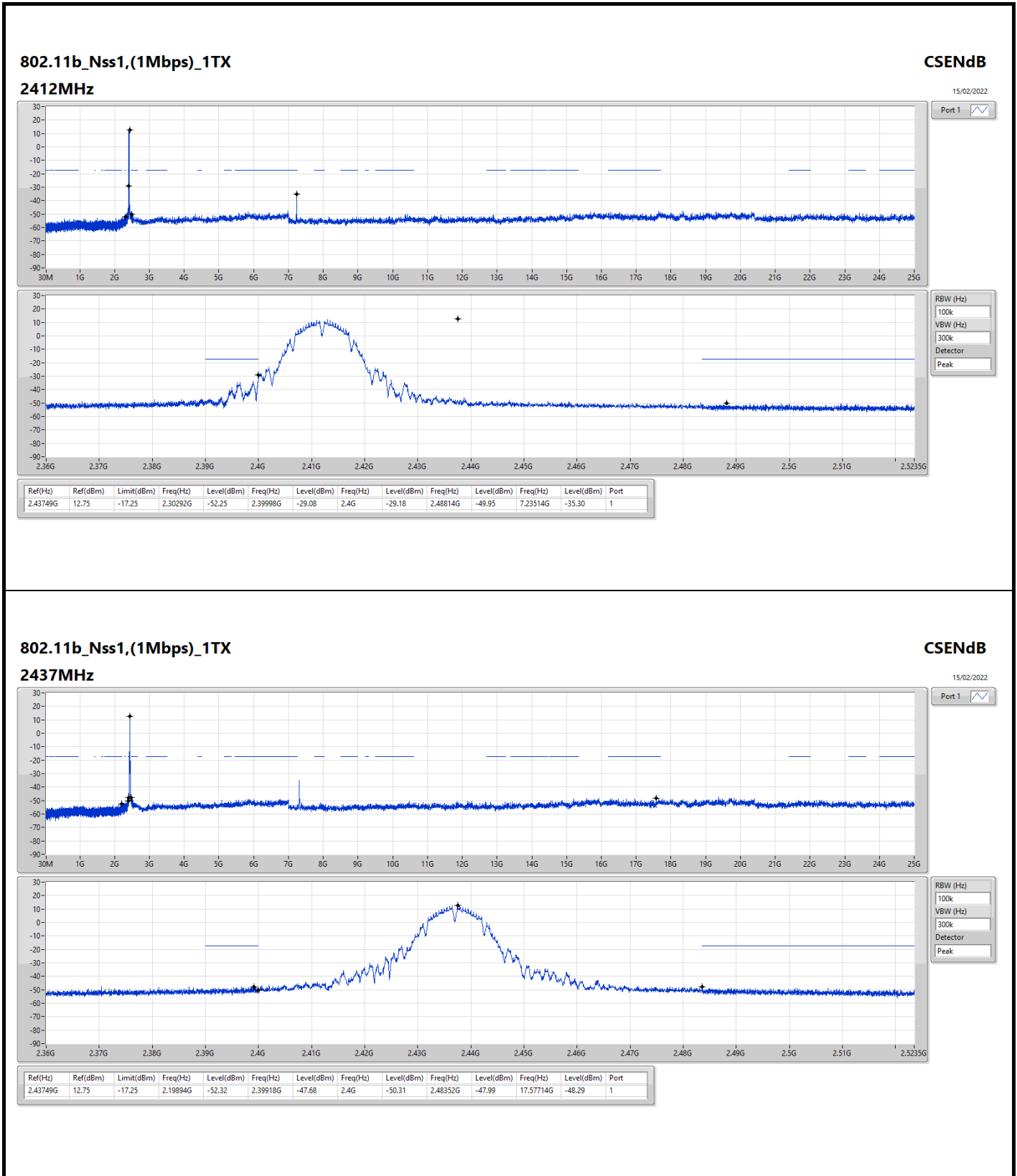
Summary

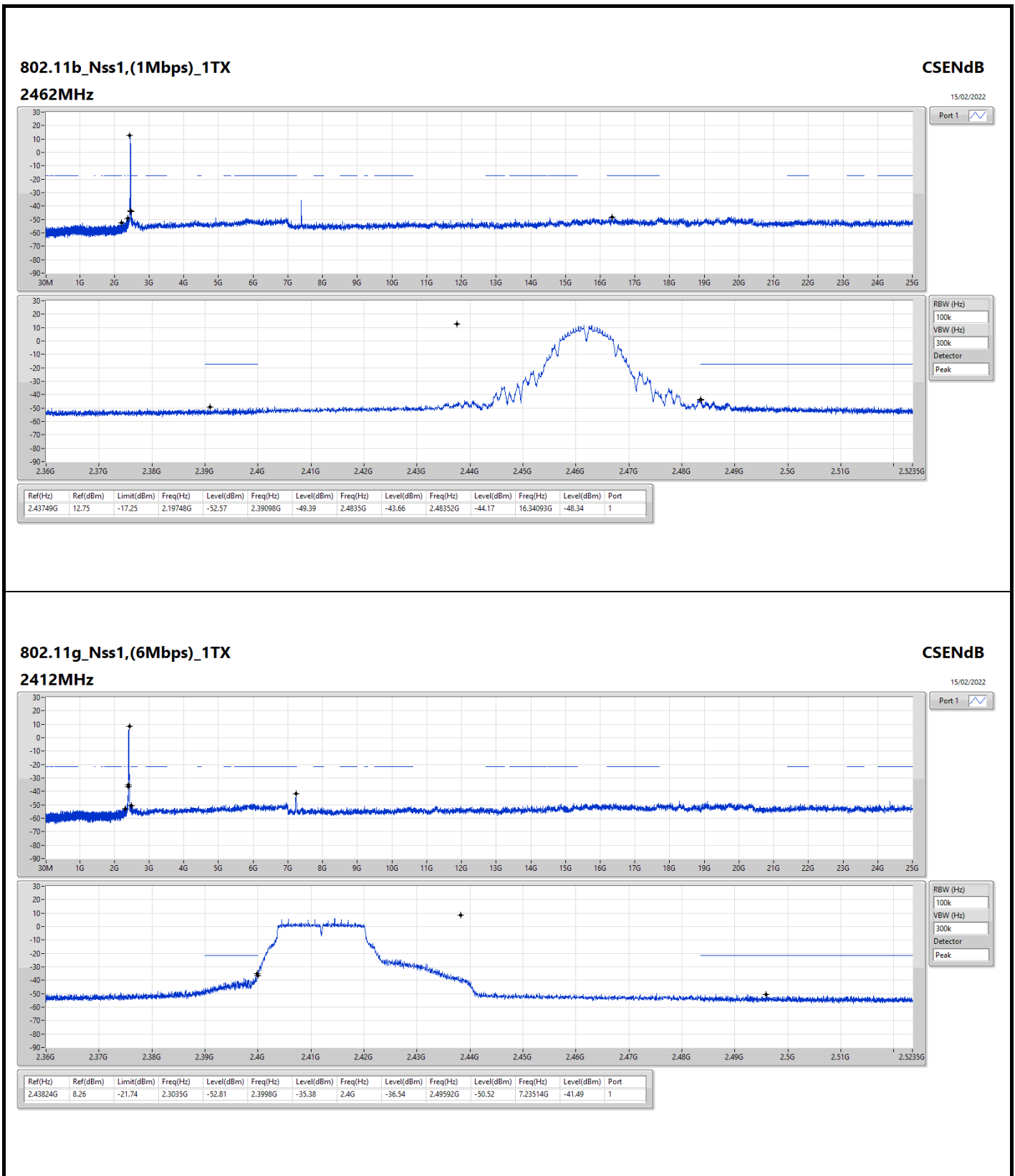
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43749G	12.75	-17.25	2.30292G	-52.25	2.39998G	-29.08	2.4G	-29.18	2.48814G	-49.95	7.23514G	-35.30	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43824G	8.26	-21.74	2.3035G	-52.81	2.3998G	-35.38	2.4G	-36.54	2.49592G	-50.52	7.23514G	-41.49	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.442G	7.45	-22.55	2.30321G	-52.49	2.3998G	-34.12	2.4G	-36.21	2.4908G	-50.39	7.22952G	-44.12	1
802.11ax HEW40_Nss1,(MCS0)_1TX	Pass	2.42572G	1.75	-28.25	2.30225G	-53.05	2.39996G	-33.77	2.4G	-34.03	2.48966G	-49.79	16.33671G	-48.25	1



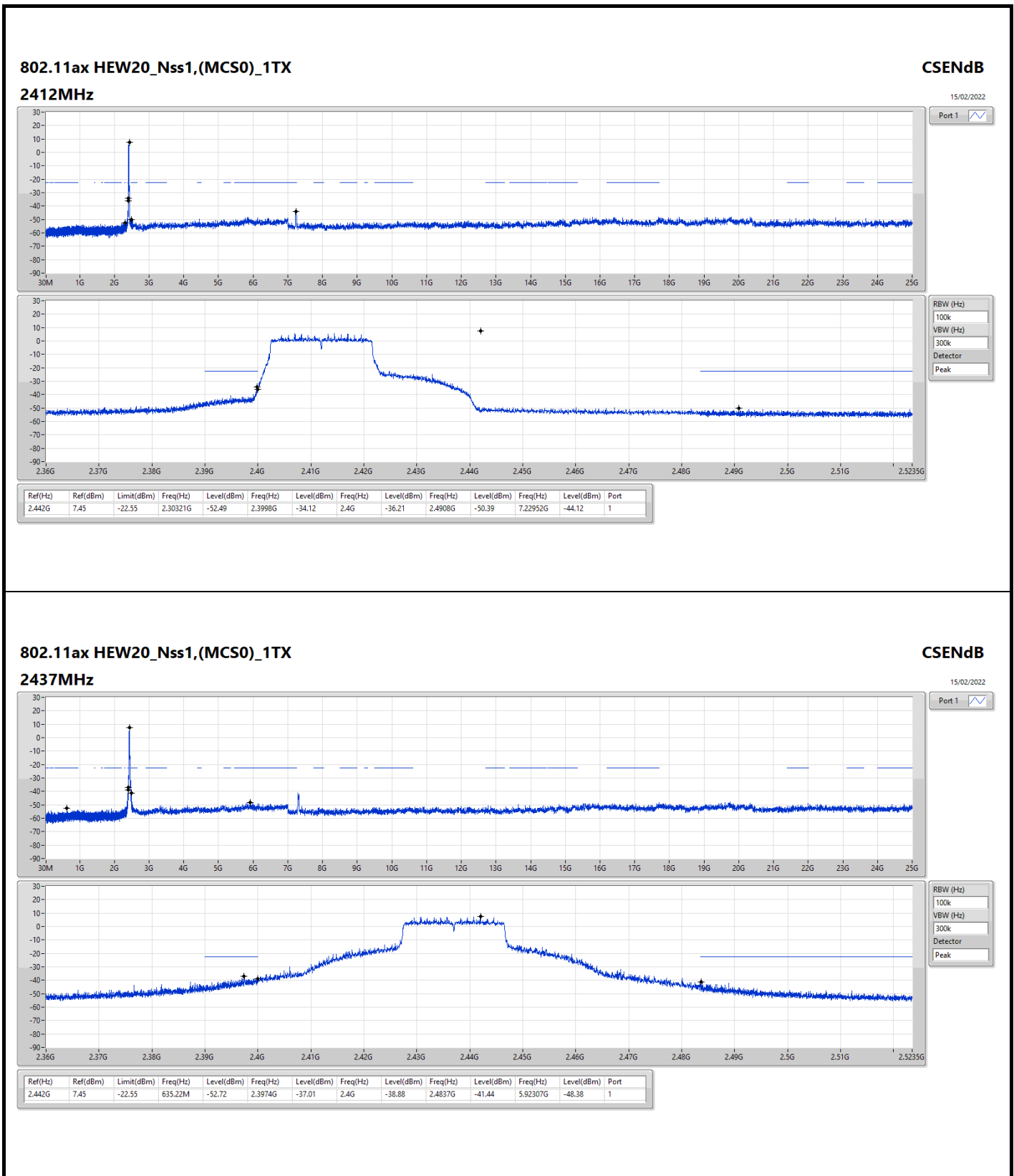
Result

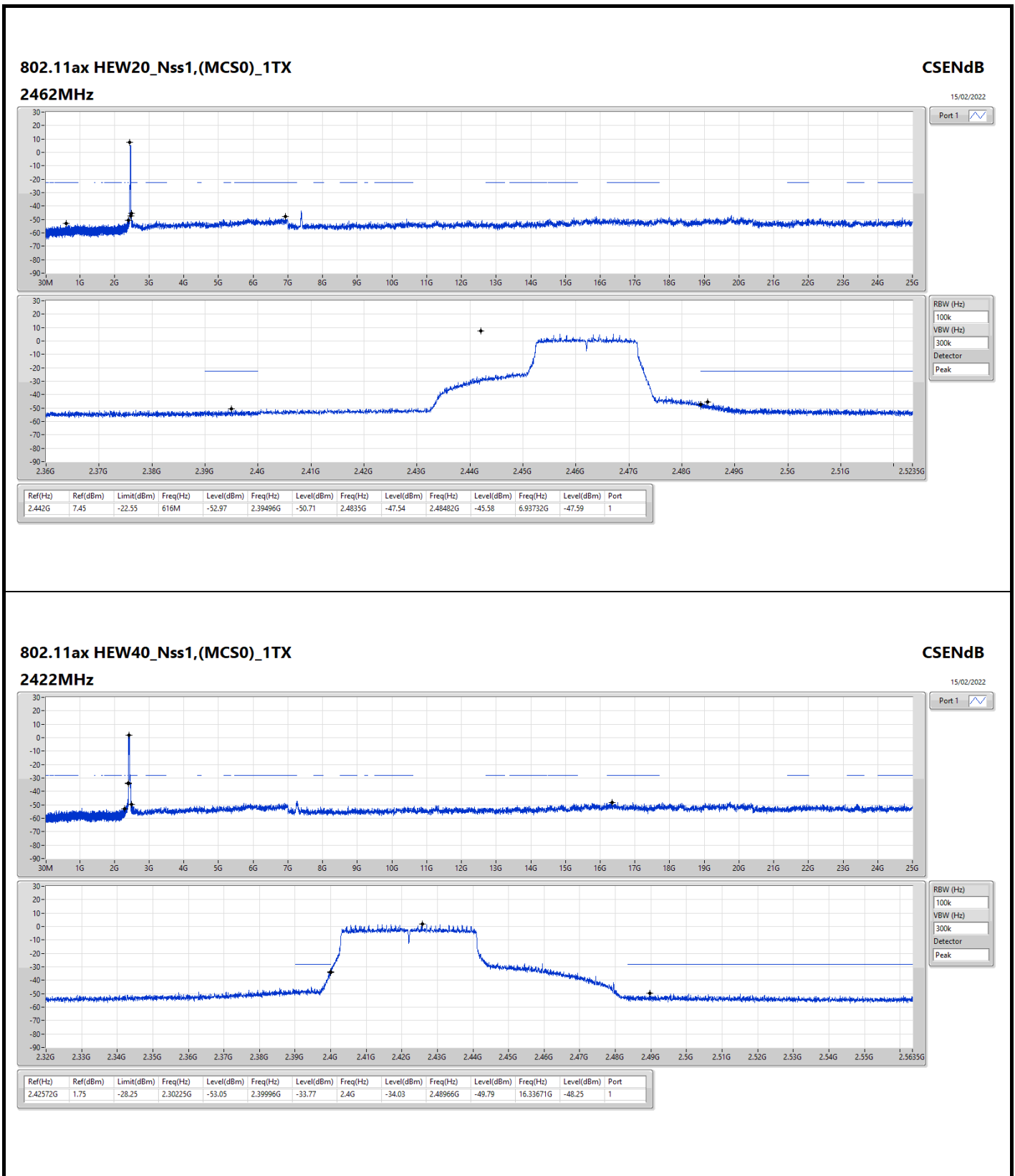
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43749G	12.75	-17.25	2.30292G	-52.25	2.39998G	-29.08	2.4G	-29.18	2.48814G	-49.95	7.23514G	-35.30	1
2437MHz	Pass	2.43749G	12.75	-17.25	2.19894G	-52.32	2.39918G	-47.68	2.4G	-50.31	2.48352G	-47.99	17.57714G	-48.29	1
2462MHz	Pass	2.43749G	12.75	-17.25	2.19748G	-52.57	2.39098G	-49.39	2.4835G	-43.66	2.48352G	-44.17	16.34093G	-48.34	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	8.26	-21.74	2.3035G	-52.81	2.3998G	-35.38	2.4G	-36.54	2.49592G	-50.52	7.23514G	-41.49	1
2437MHz	Pass	2.43824G	8.26	-21.74	2.30758G	-52.75	2.3998G	-36.43	2.4G	-38.84	2.48542G	-42.01	15.25363G	-48.09	1
2462MHz	Pass	2.43824G	8.26	-21.74	1.96943G	-53.41	2.39968G	-50.98	2.4835G	-46.46	2.4835G	-44.74	6.40632G	-48.38	1
802.11ax HEW20_Nss1,(MCSO)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	7.45	-22.55	2.30321G	-52.49	2.3998G	-34.12	2.4G	-36.21	2.4908G	-50.39	7.22952G	-44.12	1
2437MHz	Pass	2.442G	7.45	-22.55	635.22M	-52.72	2.3974G	-37.01	2.4G	-38.88	2.4837G	-41.44	5.92307G	-48.38	1
2462MHz	Pass	2.442G	7.45	-22.55	616M	-52.97	2.39496G	-50.71	2.4835G	-47.54	2.48482G	-45.58	6.93732G	-47.59	1
802.11ax HEW40_Nss1,(MCSO)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42572G	1.75	-28.25	2.30225G	-53.05	2.39996G	-33.77	2.4G	-34.03	2.48966G	-49.79	16.33671G	-48.25	1
2437MHz	Pass	2.42572G	1.75	-28.25	875.58M	-52.59	2.39956G	-36.39	2.4G	-41.64	2.48454G	-43.31	17.67168G	-47.67	1
2452MHz	Pass	2.42572G	1.75	-28.25	900.77M	-52.73	2.39952G	-37.38	2.4G	-39.53	2.48946G	-44.37	5.85886G	-47.65	1

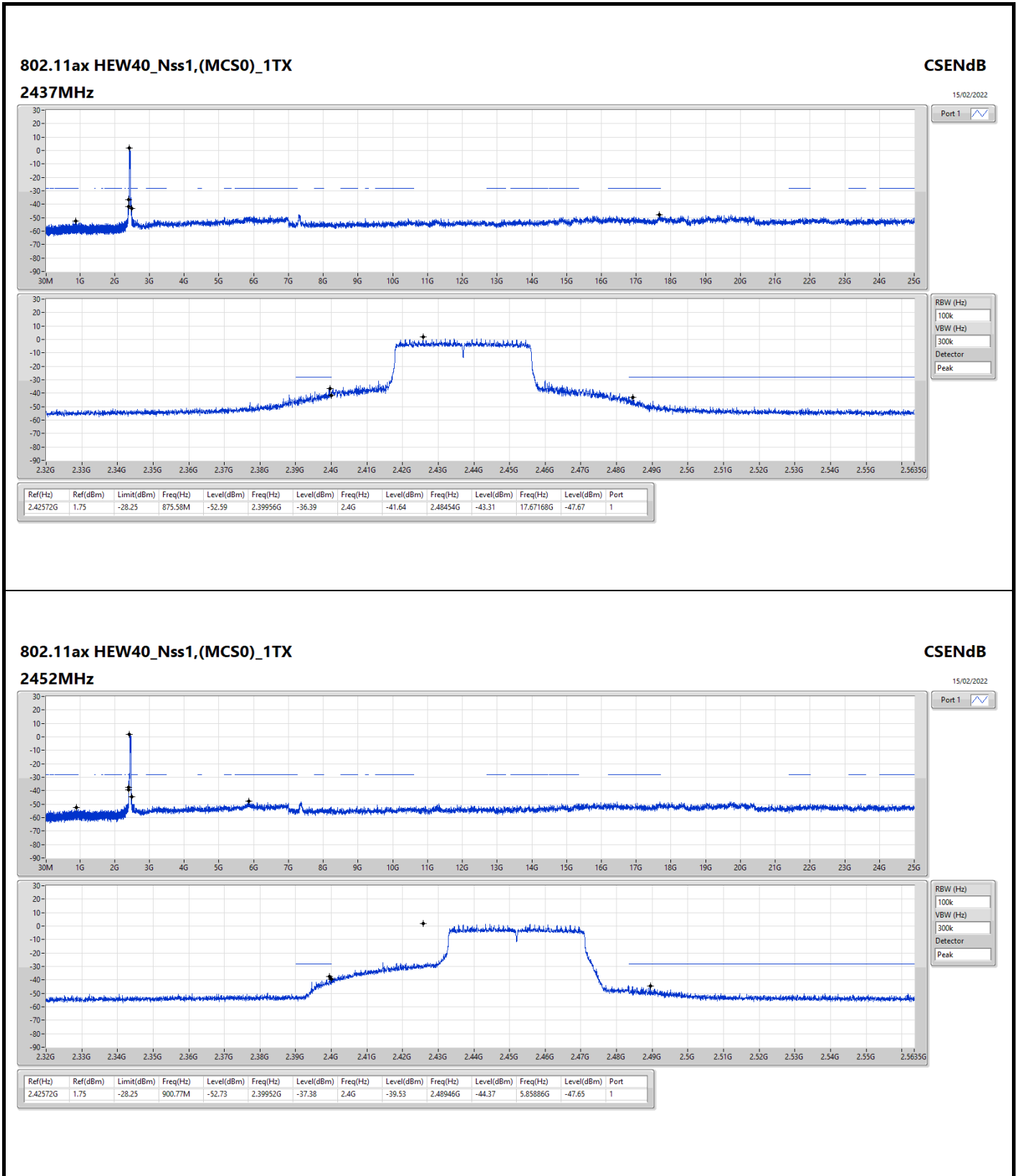










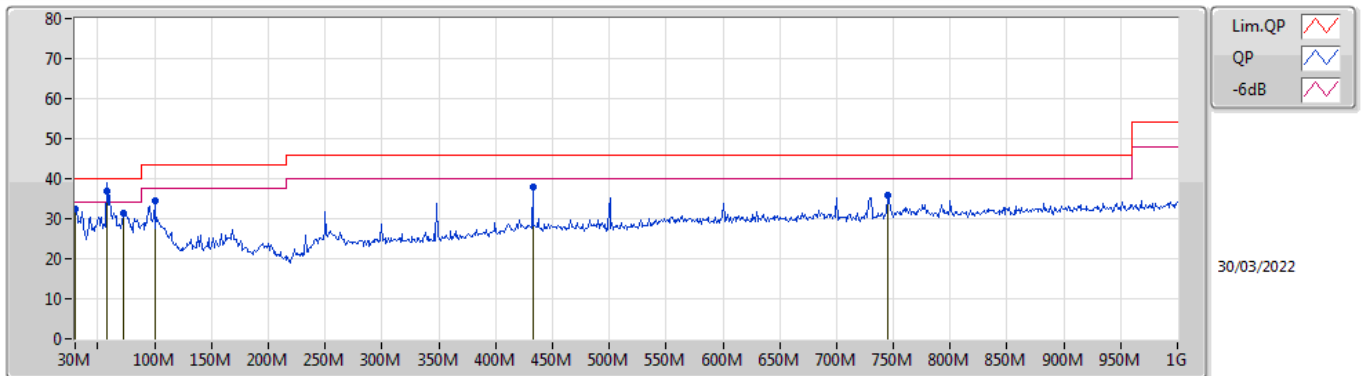




Summary

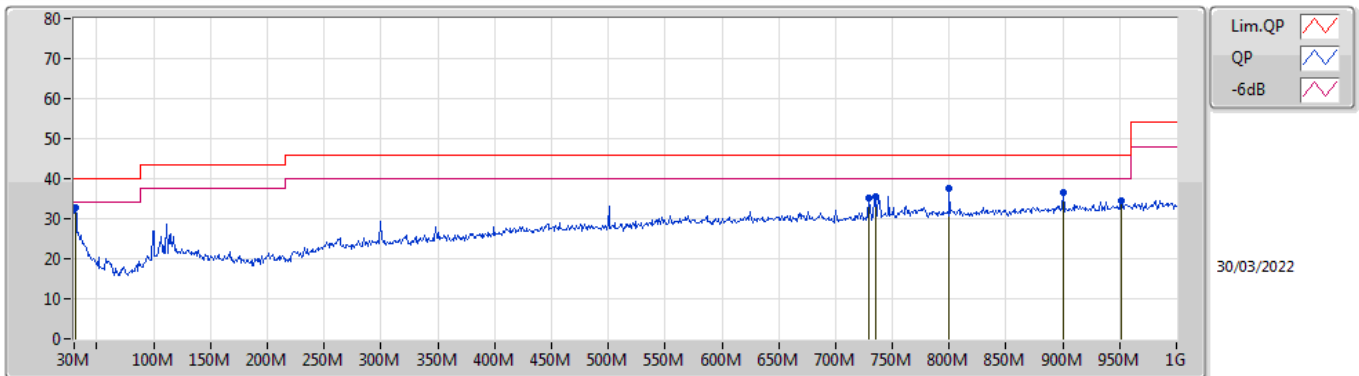
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	58.13M	36.74	40.00	-3.26	Vertical

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	30M	32.26	40.00	-7.74	-2.07	3	Vertical	115	2.00	-	34.33	25.20	1.20	28.47
QP	58.13M	36.74	40.00	-3.26	-14.76	3	Vertical	360	1.00	"Worst"	51.50	12.31	1.43	28.50
PK	72.68M	31.47	40.00	-8.53	-14.60	3	Vertical	175	1.25	-	46.07	12.49	1.45	28.54
PK	99.84M	34.49	43.50	-9.01	-10.45	3	Vertical	148	1.00	-	44.94	16.38	1.60	28.43
PK	432.55M	37.92	46.00	-8.08	-3.53	3	Vertical	33	2.00	-	41.45	22.32	2.93	28.78
PK	744.89M	35.81	46.00	-10.19	0.26	3	Vertical	265	1.50	-	35.55	25.60	3.69	29.03

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	30.97M	32.59	40.00	-7.41	-2.75	3	Horizontal	146	3.00	"Worst"	35.34	24.50	1.22	28.47
PK	729.37M	35.10	46.00	-10.90	-0.21	3	Horizontal	24	1.00	-	35.31	25.21	3.66	29.08
PK	735.19M	35.41	46.00	-10.59	-0.01	3	Horizontal	0	1.25	-	35.42	25.38	3.67	29.06
PK	800.18M	37.62	46.00	-8.38	0.61	3	Horizontal	242	1.25	-	37.01	25.85	3.80	29.04
PK	900.09M	36.70	46.00	-9.30	1.75	3	Horizontal	193	1.50	-	34.95	26.39	4.00	28.64
PK	951.5M	34.39	46.00	-11.61	2.27	3	Horizontal	347	1.50	-	32.12	26.74	4.10	28.57

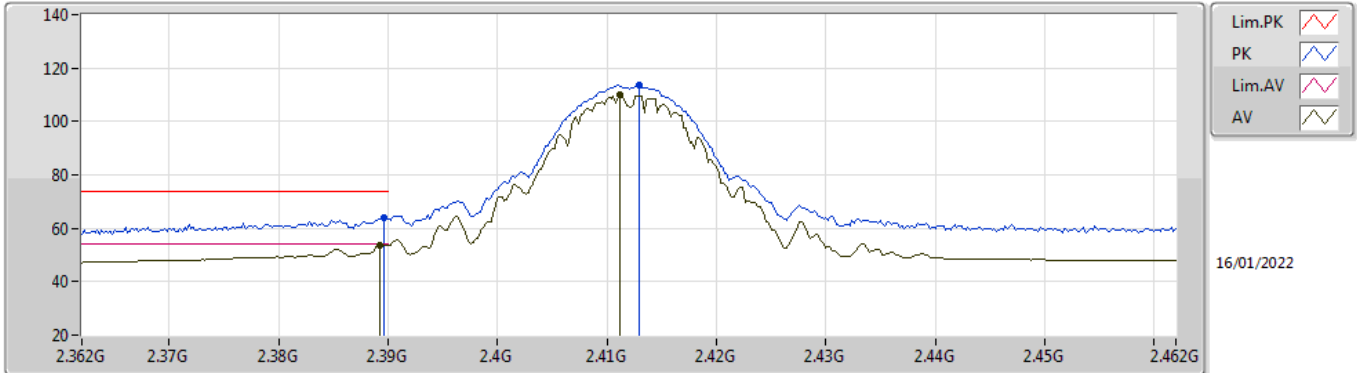


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	2.39G	53.90	54.00	-0.10	3	Vertical	171	1.84	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

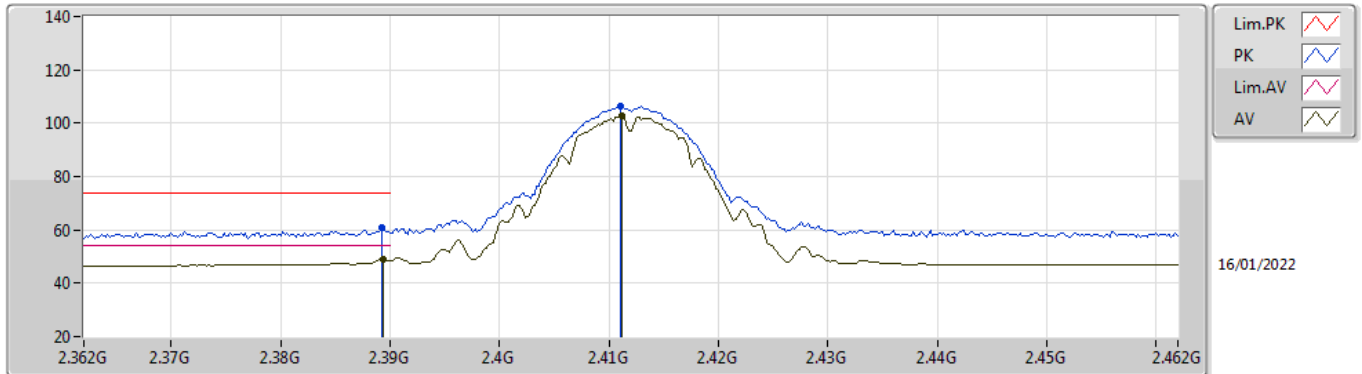


EUT Y_1TX
Setting 81
02-B-J-5

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	64.21	74.00	-9.79	33.04	3	Vertical	171	2.57	-	28.38	2.79	-
AV	2.3892G	53.83	54.00	-0.17	22.66	3	Vertical	171	2.57	-	28.38	2.79	-
PK	2.413G	113.72	Inf	-Inf	82.51	3	Vertical	171	2.57	-	28.40	2.81	-
AV	2.4112G	109.75	Inf	-Inf	78.54	3	Vertical	171	2.57	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

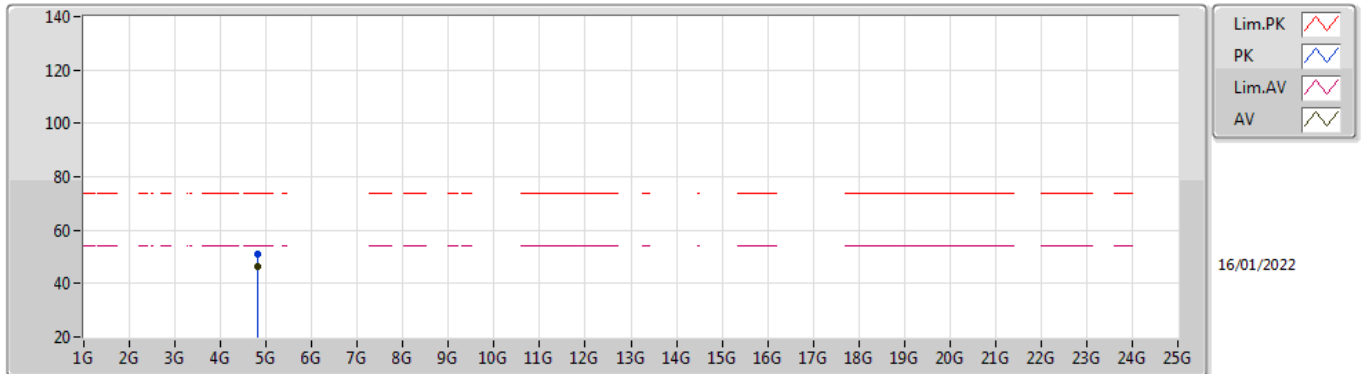


EUT_V_1TX
Setting 81
02-B-J-5

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	60.68	74.00	-13.32	29.51	3	Horizontal	298	2.84	-	28.38	2.79	-
AV	2.3894G	48.92	54.00	-5.08	17.75	3	Horizontal	298	2.84	-	28.38	2.79	-
PK	2.411G	106.20	Inf	-Inf	74.99	3	Horizontal	298	2.84	-	28.40	2.81	-
AV	2.4112G	102.64	Inf	-Inf	71.43	3	Horizontal	298	2.84	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

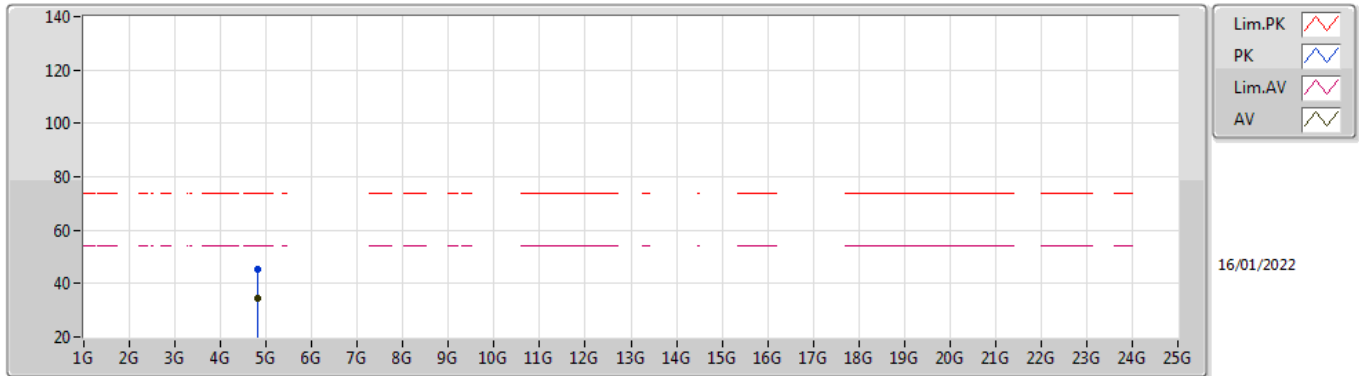


EUT Y_1TX
Setting 81
02-B-J-5

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	50.88	74.00	-23.12	45.20	3	Vertical	197	2.02	-	32.80	5.10	32.22
AV	4.82396G	46.50	54.00	-7.50	40.82	3	Vertical	197	2.02	-	32.80	5.10	32.22

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

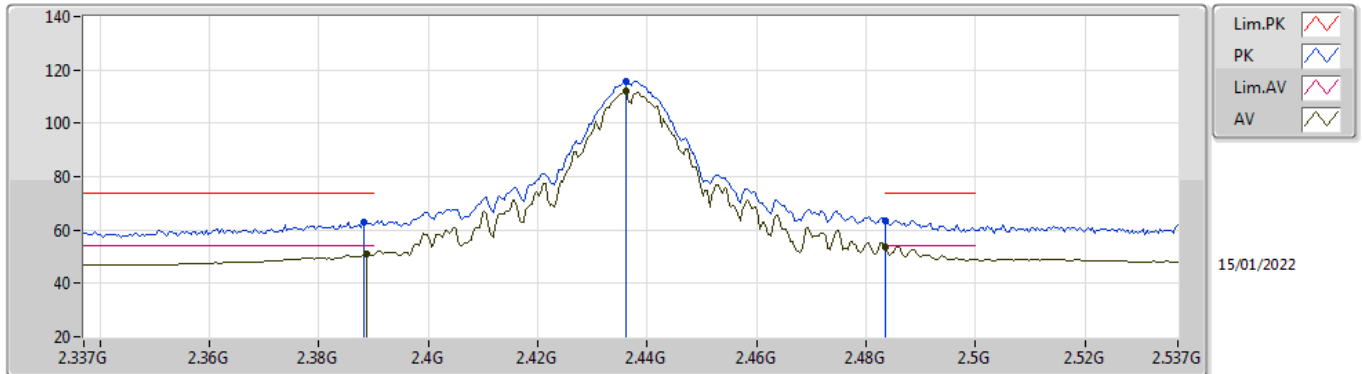


EUT Y_1TX
Setting 81
02-B-J-5

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	4.82368G	45.41	74.00	-28.59	39.74	3	Horizontal	223	2.21	-	32.79	5.10	32.22
AV	4.82392G	34.37	54.00	-19.63	28.69	3	Horizontal	223	2.21	-	32.80	5.10	32.22

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

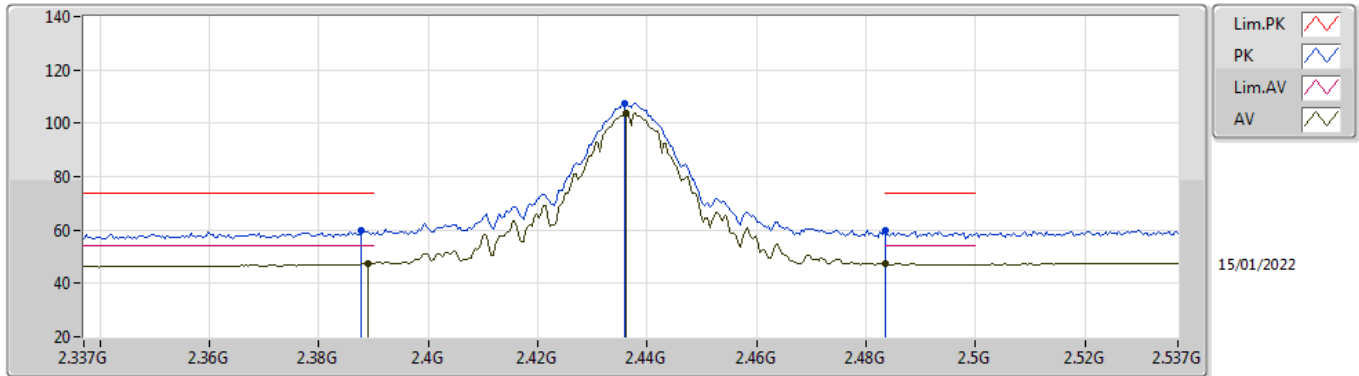


EUT_V_1TX
Setting 89
02-B-J-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	63.11	74.00	-10.89	31.94	3	Vertical	24	2.24	-	28.38	2.79	-
AV	2.3886G	51.22	54.00	-2.78	20.05	3	Vertical	24	2.24	-	28.38	2.79	-
PK	2.4362G	115.83	Inf	-Inf	84.59	3	Vertical	24	2.24	-	28.40	2.84	-
AV	2.4362G	112.19	Inf	-Inf	80.95	3	Vertical	24	2.24	-	28.40	2.84	-
PK	2.4835G	63.59	74.00	-10.41	32.18	3	Vertical	24	2.24	-	28.53	2.88	-
AV	2.4835G	53.83	54.00	-0.17	22.42	3	Vertical	24	2.24	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

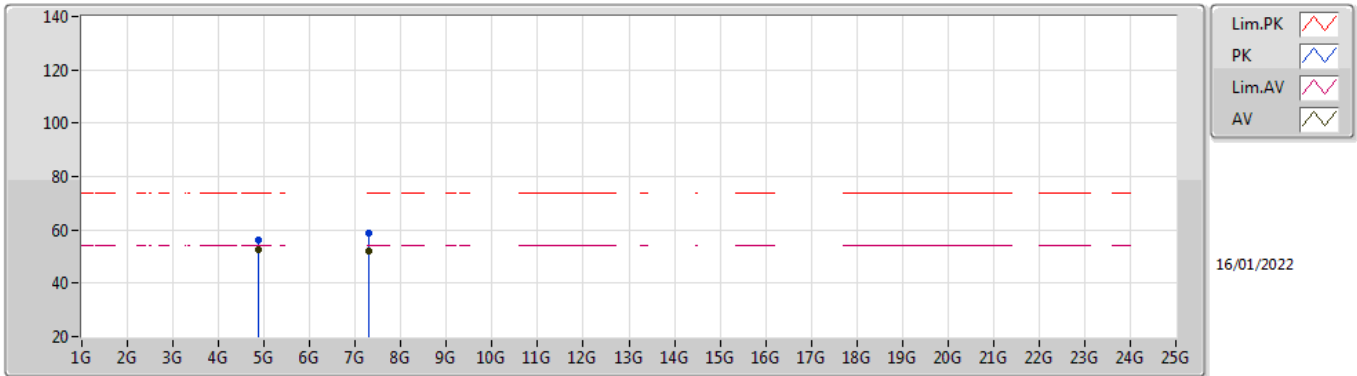


EUT V_1TX
Setting 89
02-B-J-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	59.62	74.00	-14.38	28.45	3	Horizontal	270	2.57	-	28.38	2.79	-
AV	2.389G	47.43	54.00	-6.57	16.26	3	Horizontal	270	2.57	-	28.38	2.79	-
PK	2.4358G	107.59	Inf	-Inf	76.35	3	Horizontal	270	2.57	-	28.40	2.84	-
AV	2.4362G	104.01	Inf	-Inf	72.77	3	Horizontal	270	2.57	-	28.40	2.84	-
PK	2.4835G	60.06	74.00	-13.94	28.65	3	Horizontal	270	2.57	-	28.53	2.88	-
AV	2.4835G	47.45	54.00	-6.55	16.04	3	Horizontal	270	2.57	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

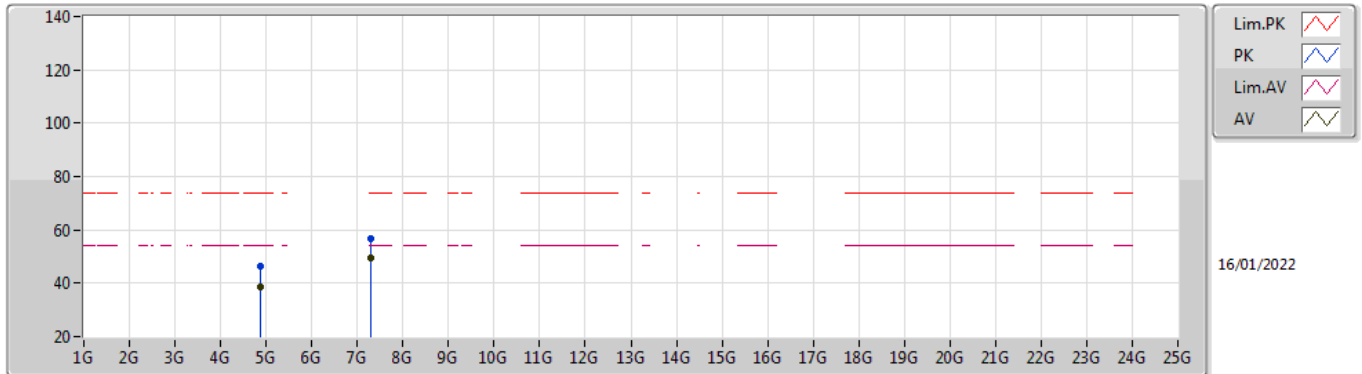


EUT Y_1TX
Setting 89
02-B-J-5

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	4.87392G	56.05	74.00	-17.95	50.21	3	Vertical	211	1.98	-	32.95	5.10	32.21
AV	4.874G	52.49	54.00	-1.51	46.65	3	Vertical	211	1.98	-	32.95	5.10	32.21
PK	7.31G	58.58	74.00	-15.42	48.83	3	Vertical	202	1.80	-	36.42	6.15	32.82
AV	7.30976G	52.27	54.00	-1.73	42.52	3	Vertical	202	1.80	-	36.42	6.15	32.82

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

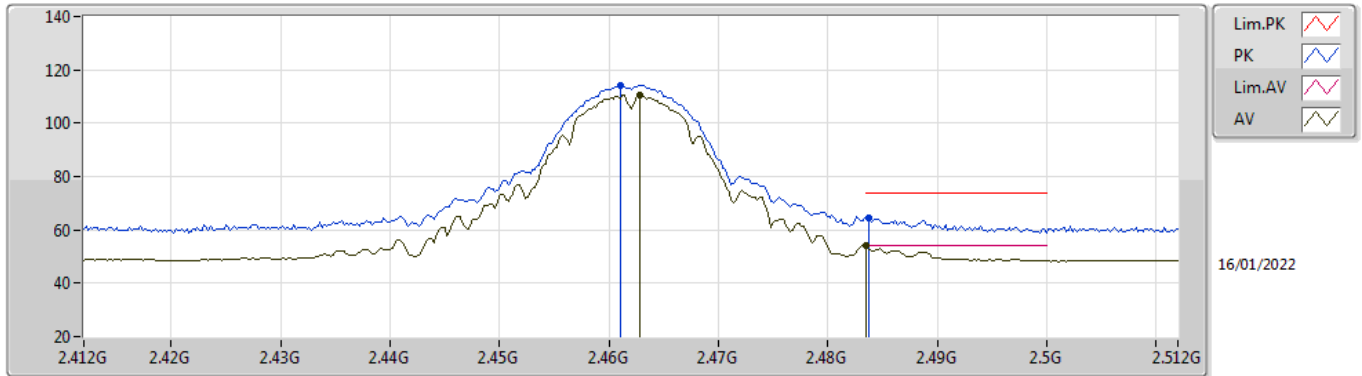


EUT Y_1TX
Setting 89
02-B-J-5

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	4.874G	46.55	74.00	-27.45	40.71	3	Horizontal	178	1.74	-	32.95	5.10	32.21
AV	4.87396G	38.67	54.00	-15.33	32.83	3	Horizontal	178	1.74	-	32.95	5.10	32.21
PK	7.30992G	56.95	74.00	-17.05	47.20	3	Horizontal	214	1.80	-	36.42	6.15	32.82
AV	7.30972G	49.59	54.00	-4.41	39.84	3	Horizontal	214	1.80	-	36.42	6.15	32.82

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

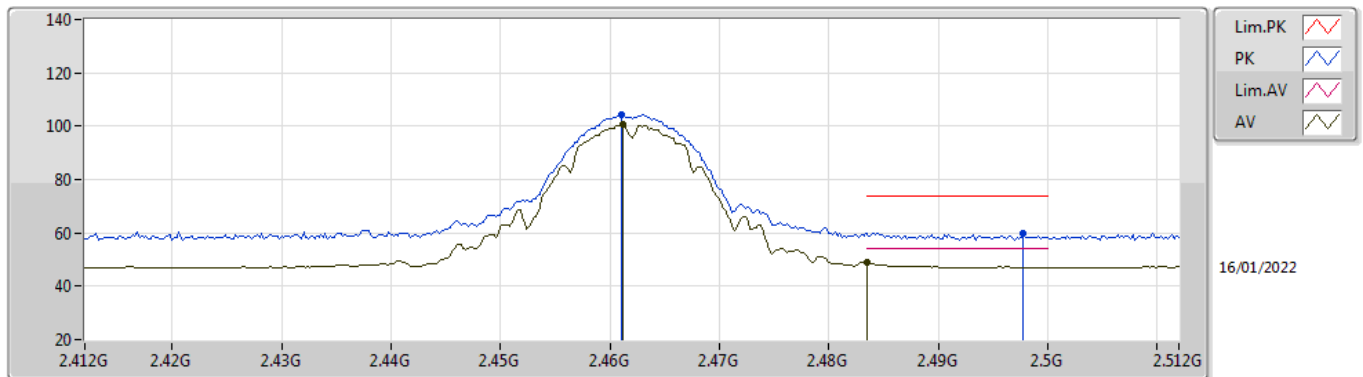


EUT Y_1TX
Setting 80
02-B-J-5

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	114.25	Inf	-Inf	82.95	3	Vertical	202	2.48	-	28.44	2.86	-
AV	2.4628G	110.45	Inf	-Inf	79.14	3	Vertical	202	2.48	-	28.45	2.86	-
PK	2.4838G	64.62	74.00	-9.38	33.20	3	Vertical	202	2.48	-	28.54	2.88	-
AV	2.4835G	53.88	54.00	-0.12	22.47	3	Vertical	202	2.48	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

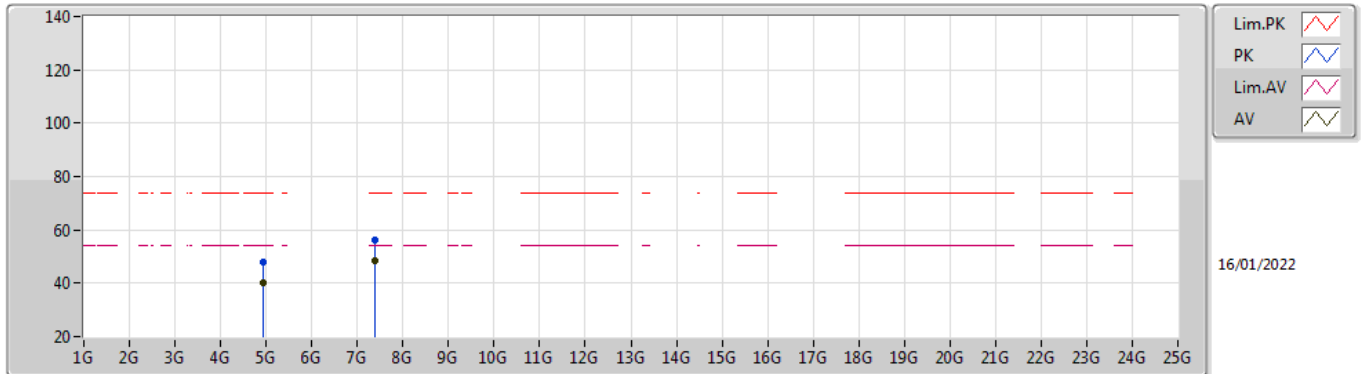


EUT Y_1TX
Setting 80
02-B-J-5

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	104.30	Inf	-Inf	73.00	3	Horizontal	311	2.76	-	28.44	2.86	-
AV	2.4612G	100.56	Inf	-Inf	69.26	3	Horizontal	311	2.76	-	28.44	2.86	-
PK	2.4978G	59.87	74.00	-14.13	28.38	3	Horizontal	311	2.76	-	28.59	2.90	-
AV	2.4835G	49.03	54.00	-4.97	17.62	3	Horizontal	311	2.76	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

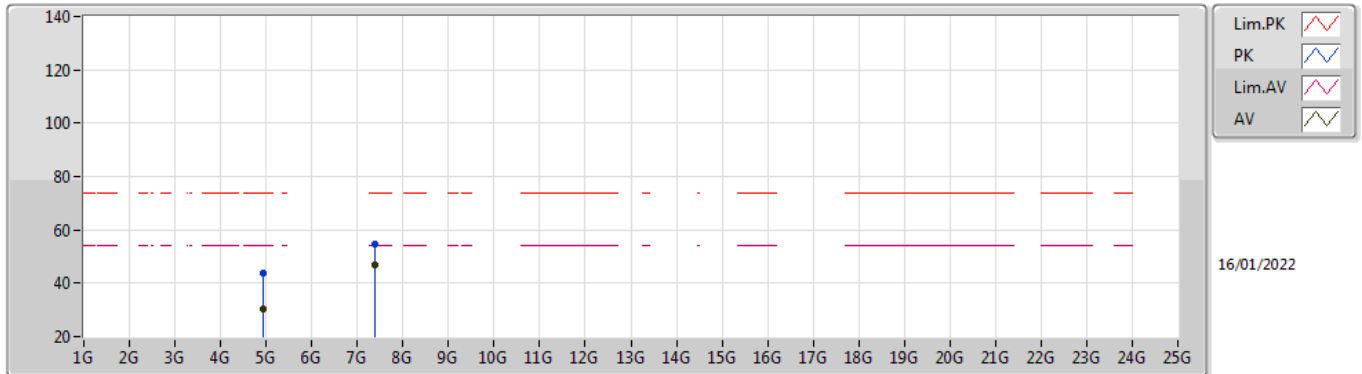


EUT Y_1TX
Setting 80
02-B-J-5

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	4.92404G	47.75	74.00	-26.25	41.70	3	Vertical	199	1.86	-	33.14	5.10	32.19
AV	4.92396G	40.41	54.00	-13.59	34.36	3	Vertical	199	1.86	-	33.14	5.10	32.19
PK	7.38496G	56.30	74.00	-17.70	46.49	3	Vertical	201	1.84	-	36.57	6.19	32.95
AV	7.38472G	48.68	54.00	-5.32	38.87	3	Vertical	201	1.84	-	36.57	6.19	32.95

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

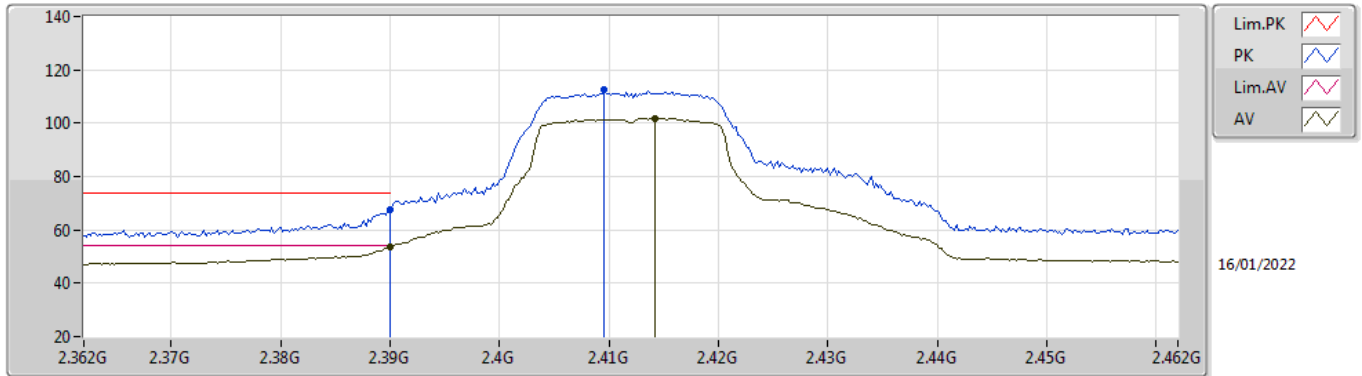


EUT Y_1TX
Setting 80
02-B-J-5

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	4.9292G	43.85	74.00	-30.15	37.76	3	Horizontal	179	1.80	-	33.18	5.10	32.19
AV	4.92404G	30.12	54.00	-23.88	24.07	3	Horizontal	179	1.80	-	33.14	5.10	32.19
PK	7.38456G	54.88	74.00	-19.12	45.07	3	Horizontal	220	1.89	-	36.57	6.19	32.95
AV	7.38472G	46.82	54.00	-7.18	37.01	3	Horizontal	220	1.89	-	36.57	6.19	32.95

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

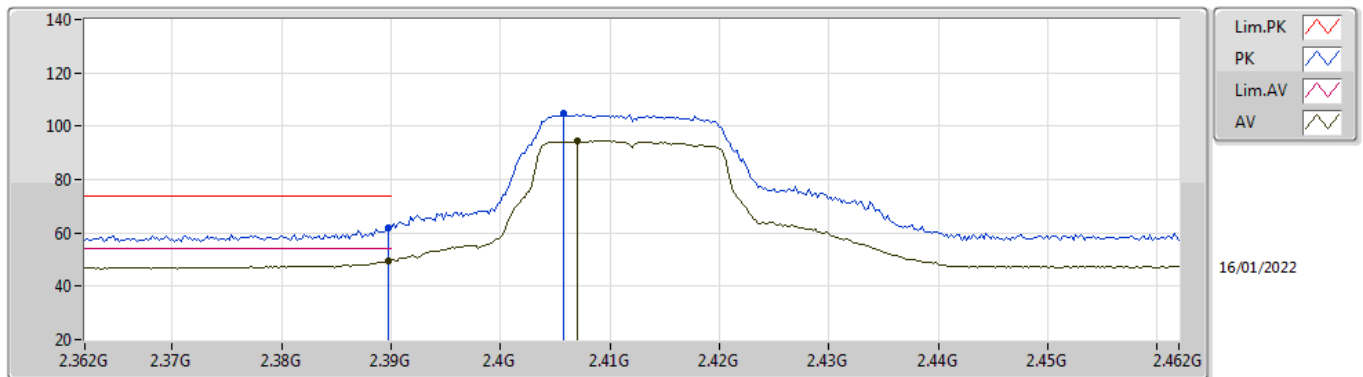


EUT Y_1TX
Setting 73
02-B-J-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	67.36	74.00	-6.64	36.19	3	Vertical	172	1.82	-	28.38	2.79	-
AV	2.39G	53.82	54.00	-0.18	22.65	3	Vertical	172	1.82	-	28.38	2.79	-
PK	2.4096G	112.34	Inf	-Inf	81.13	3	Vertical	172	1.82	-	28.40	2.81	-
AV	2.4142G	101.97	Inf	-Inf	70.76	3	Vertical	172	1.82	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

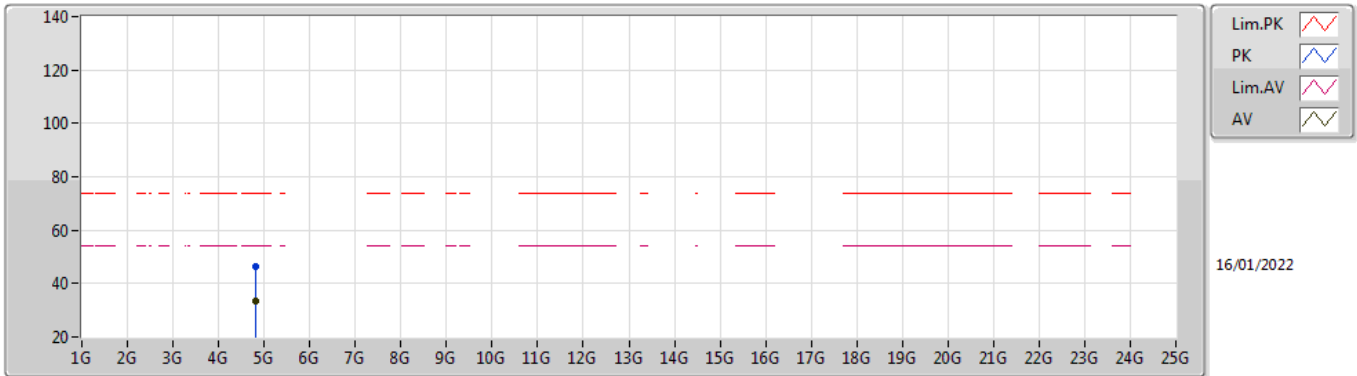


EUT V_1TX
Setting 73
02-B-J-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	62.06	74.00	-11.94	30.89	3	Horizontal	297	2.84	-	28.38	2.79	-
AV	2.3898G	49.55	54.00	-4.45	18.38	3	Horizontal	297	2.84	-	28.38	2.79	-
PK	2.4058G	104.64	Inf	-Inf	73.43	3	Horizontal	297	2.84	-	28.40	2.81	-
AV	2.407G	94.44	Inf	-Inf	63.23	3	Horizontal	297	2.84	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

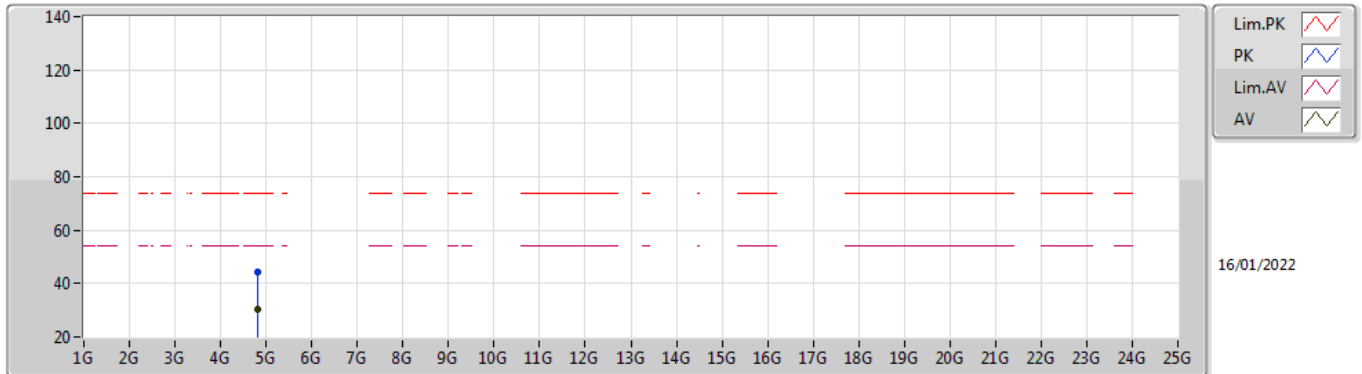


EUT Y_1TX
Setting 73
02-B-J-5

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	4.823G	46.61	74.00	-27.39	40.94	3	Vertical	207	2.05	-	32.79	5.10	32.22
AV	4.824G	33.30	54.00	-20.70	27.62	3	Vertical	207	2.05	-	32.80	5.10	32.22

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

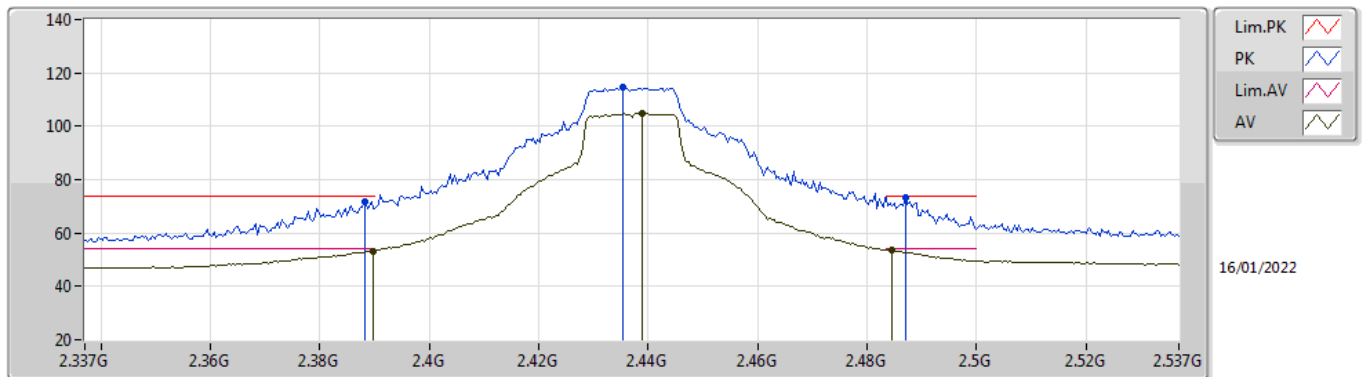


EUT Y_1TX
Setting 73
02-B-J-5

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	4.81892G	44.17	74.00	-29.83	38.52	3	Horizontal	271	2.06	-	32.78	5.10	32.23
AV	4.82564G	30.59	54.00	-23.41	24.91	3	Horizontal	271	2.06	-	32.80	5.10	32.22

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

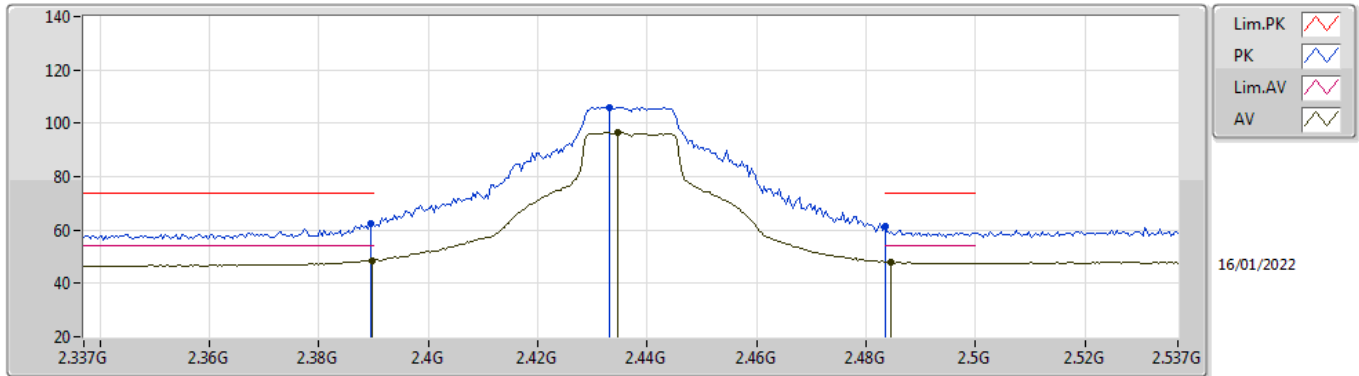


EUT_V_1TX
Setting 81
02-B-J-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	71.68	74.00	-2.32	40.51	3	Vertical	203	2.26	-	28.38	2.79	-
AV	2.3898G	53.28	54.00	-0.72	22.11	3	Vertical	203	2.26	-	28.38	2.79	-
PK	2.4354G	114.52	Inf	-Inf	83.28	3	Vertical	203	2.26	-	28.40	2.84	-
AV	2.439G	104.78	Inf	-Inf	73.54	3	Vertical	203	2.26	-	28.40	2.84	-
PK	2.487G	73.30	74.00	-0.70	41.86	3	Vertical	203	2.26	-	28.55	2.89	-
AV	2.4846G	53.81	54.00	-0.19	22.39	3	Vertical	203	2.26	-	28.54	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

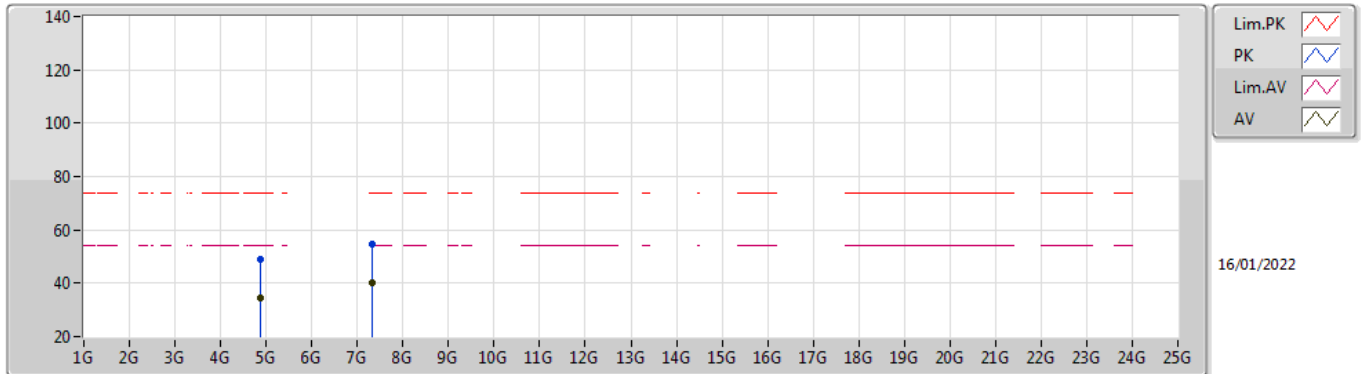


EUT_V_1TX
Setting 81
02-B-J-5

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	62.56	74.00	-11.44	31.39	3	Horizontal	90	2.85	-	28.38	2.79	-
AV	2.3898G	48.48	54.00	-5.52	17.31	3	Horizontal	90	2.85	-	28.38	2.79	-
PK	2.433G	106.01	Inf	-Inf	74.78	3	Horizontal	90	2.85	-	28.40	2.83	-
AV	2.4346G	96.59	Inf	-Inf	65.36	3	Horizontal	90	2.85	-	28.40	2.83	-
PK	2.4835G	61.33	74.00	-12.67	29.92	3	Horizontal	90	2.85	-	28.53	2.88	-
AV	2.4846G	47.94	54.00	-6.06	16.52	3	Horizontal	90	2.85	-	28.54	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

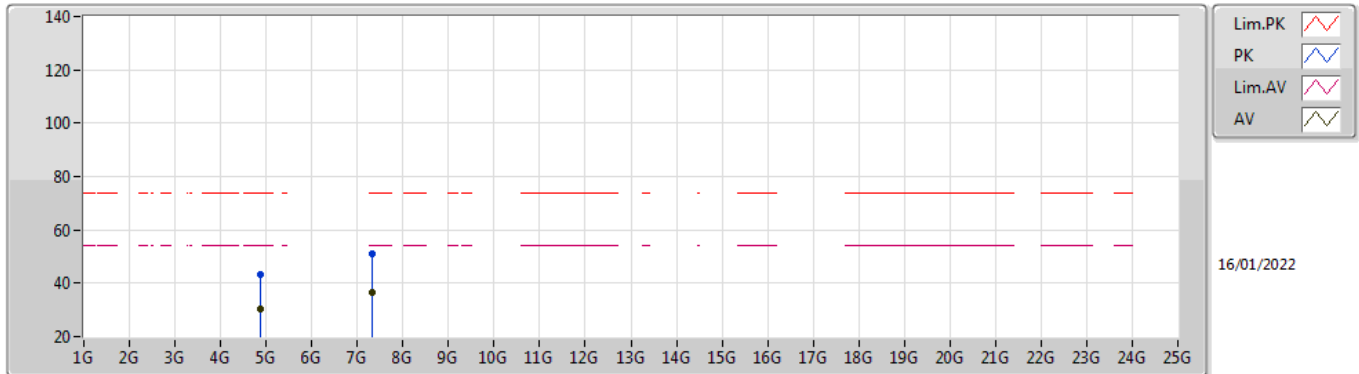


EUT Y_1TX
Setting 81
02-B-J-5

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	4.86996G	49.19	74.00	-24.81	43.36	3	Vertical	201	1.86	-	32.94	5.10	32.21
AV	4.87596G	34.57	54.00	-19.43	28.72	3	Vertical	201	1.86	-	32.95	5.10	32.20
PK	7.31244G	54.91	74.00	-19.09	45.15	3	Vertical	202	1.80	-	36.42	6.16	32.82
AV	7.31508G	40.16	54.00	-13.84	30.40	3	Vertical	202	1.80	-	36.43	6.16	32.83

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

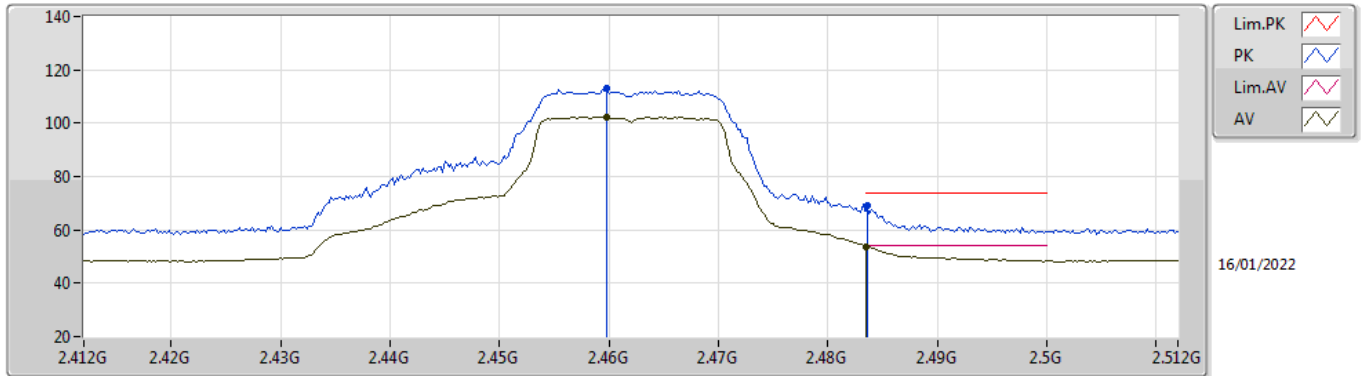


EUT Y_1TX
Setting 81
02-B-J-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87344G	43.17	74.00	-30.83	37.33	3	Horizontal	84	2.10	-	32.95	5.10	32.21
AV	4.86792G	30.21	54.00	-23.79	24.38	3	Horizontal	84	2.10	-	32.94	5.10	32.21
PK	7.32024G	50.83	74.00	-23.17	41.07	3	Horizontal	206	2.72	-	36.44	6.16	32.84
AV	7.3176G	36.68	54.00	-17.32	26.91	3	Horizontal	206	2.72	-	36.44	6.16	32.83

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

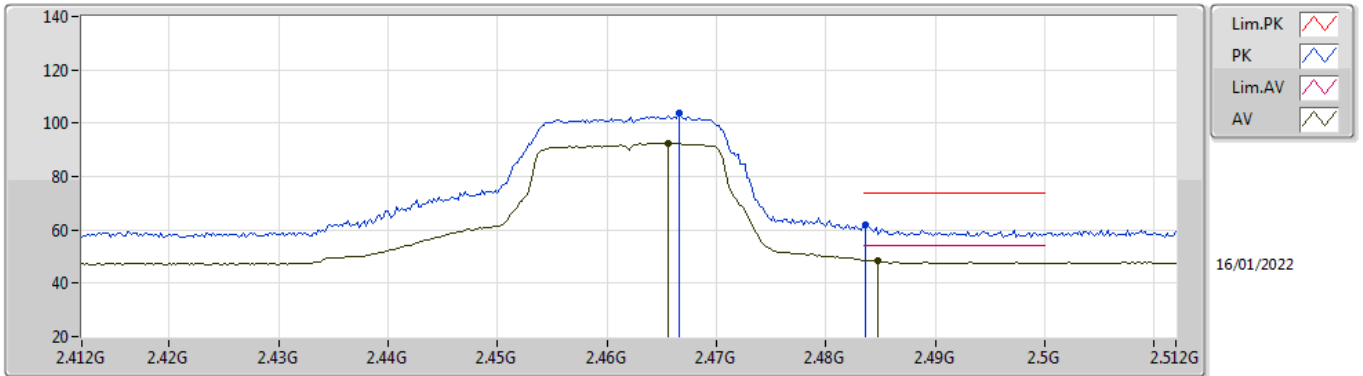


EUT Y_1TX
Setting 71
02-B-J-5

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	2.4598G	113.00	Inf	-Inf	81.70	3	Vertical	202	2.46	-	28.44	2.86	-
AV	2.4598G	102.29	Inf	-Inf	70.99	3	Vertical	202	2.46	-	28.44	2.86	-
PK	2.4836G	69.30	74.00	-4.70	37.89	3	Vertical	202	2.46	-	28.53	2.88	-
AV	2.4835G	53.82	54.00	-0.18	22.41	3	Vertical	202	2.46	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

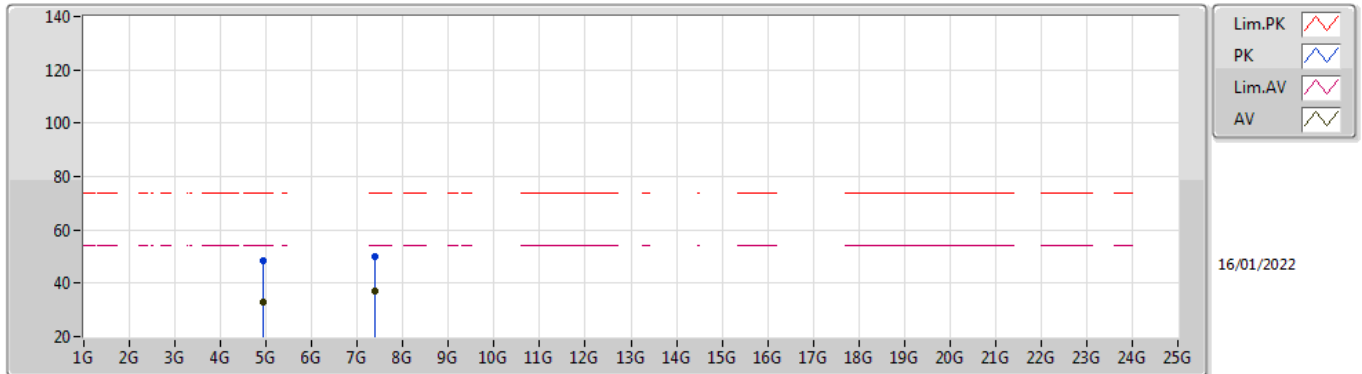


EUT V_1TX
Setting 71
02-B-J-5

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	2.4666G	103.89	Inf	-Inf	72.55	3	Horizontal	312	1.77	-	28.47	2.87	-
AV	2.4656G	92.60	Inf	-Inf	61.27	3	Horizontal	312	1.77	-	28.46	2.87	-
PK	2.4836G	61.74	74.00	-12.26	30.33	3	Horizontal	312	1.77	-	28.53	2.88	-
AV	2.4848G	48.61	54.00	-5.39	17.19	3	Horizontal	312	1.77	-	28.54	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

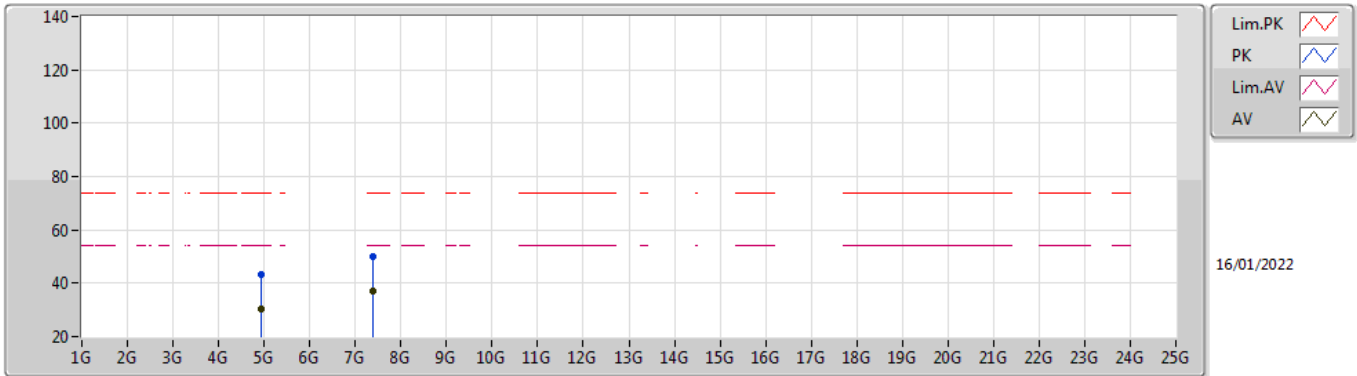


EUT Y_1TX
Setting 71
02-B-J-5

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	4.9204G	48.33	74.00	-25.67	42.30	3	Vertical	201	1.91	-	33.12	5.10	32.19
AV	4.93G	32.97	54.00	-21.03	26.88	3	Vertical	201	1.91	-	33.18	5.10	32.19
PK	7.3796G	50.23	74.00	-23.77	40.42	3	Vertical	136	2.14	-	36.56	6.19	32.94
AV	7.38232G	37.04	54.00	-16.96	27.24	3	Vertical	136	2.14	-	36.56	6.19	32.95

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

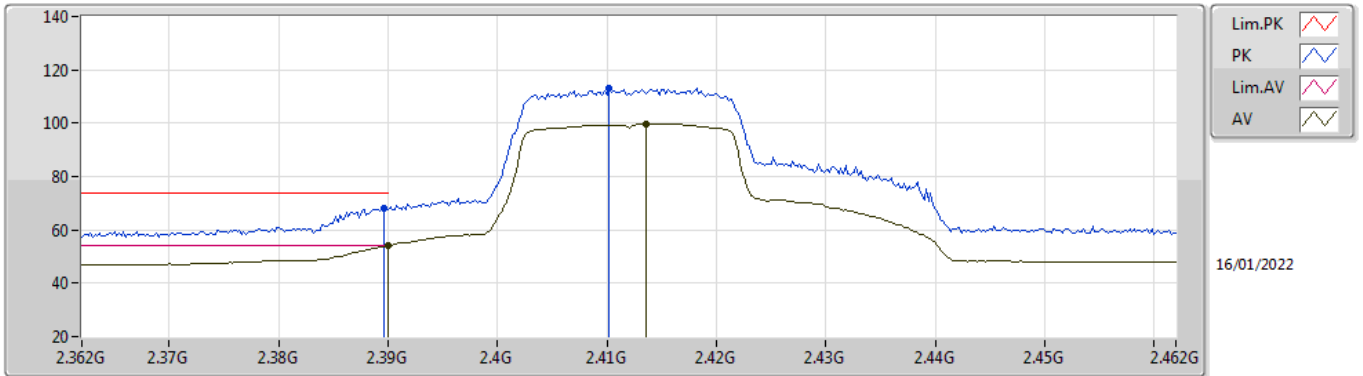


EUT Y_1TX
Setting 71
02-B-J-5

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	4.93032G	43.37	74.00	-30.63	37.28	3	Horizontal	147	2.80	-	33.18	5.10	32.19
AV	4.92952G	30.24	54.00	-23.76	24.15	3	Horizontal	147	2.80	-	33.18	5.10	32.19
PK	7.38584G	50.15	74.00	-23.85	40.34	3	Horizontal	175	2.72	-	36.57	6.19	32.95
AV	7.37764G	36.91	54.00	-17.09	27.10	3	Horizontal	175	2.72	-	36.56	6.19	32.94

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

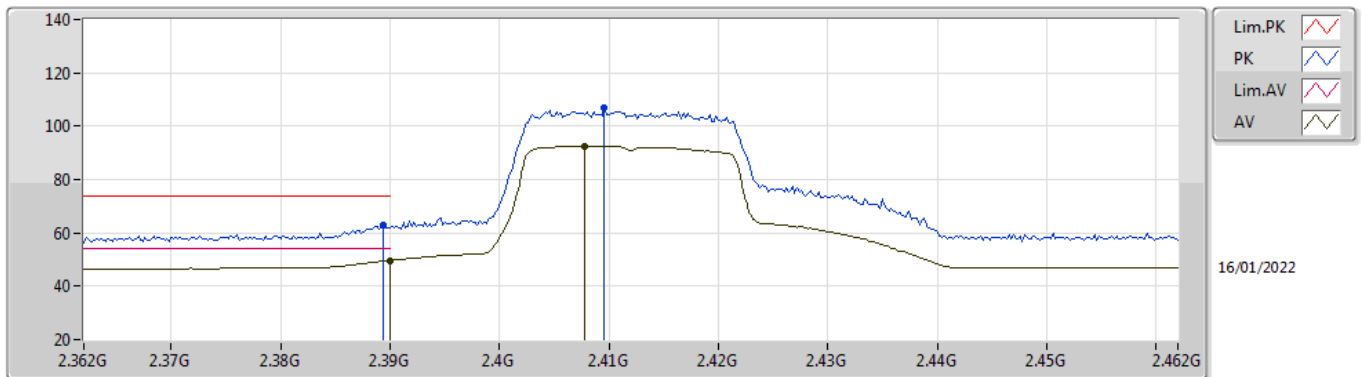


EUT Y_1TX
Setting 72
02-B-J-5

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	68.27	74.00	-5.73	37.10	3	Vertical	171	1.84	-	28.38	2.79	-
AV	2.39G	53.90	54.00	-0.10	22.73	3	Vertical	171	1.84	-	28.38	2.79	-
PK	2.4102G	113.01	Inf	-Inf	81.80	3	Vertical	171	1.84	-	28.40	2.81	-
AV	2.4136G	99.90	Inf	-Inf	68.69	3	Vertical	171	1.84	-	28.40	2.81	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

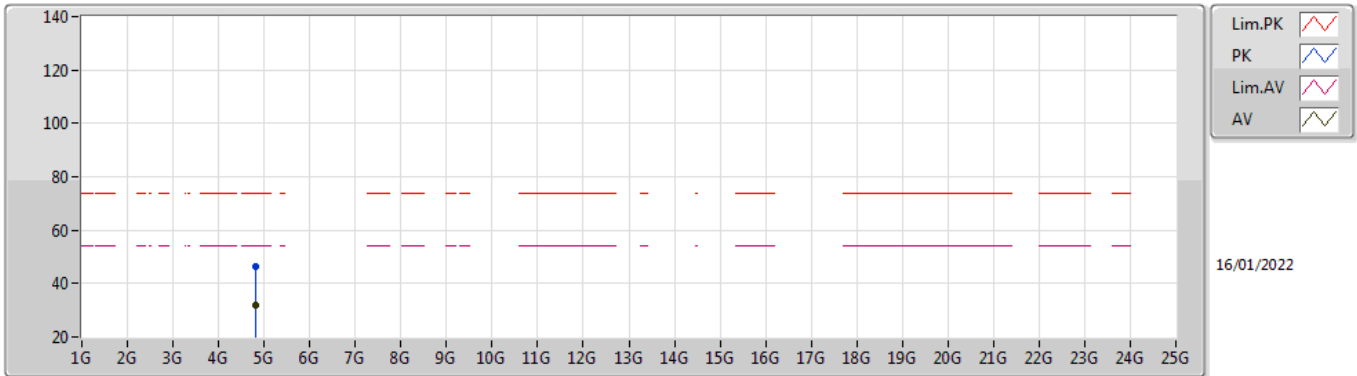


EUT Y_1TX
Setting 72
02-B-J-5

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	62.81	74.00	-11.19	31.64	3	Horizontal	297	2.84	-	28.38	2.79	-
AV	2.39G	49.62	54.00	-4.38	18.45	3	Horizontal	297	2.84	-	28.38	2.79	-
PK	2.4096G	106.64	Inf	-Inf	75.43	3	Horizontal	297	2.84	-	28.40	2.81	-
AV	2.4078G	92.62	Inf	-Inf	61.41	3	Horizontal	297	2.84	-	28.40	2.81	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

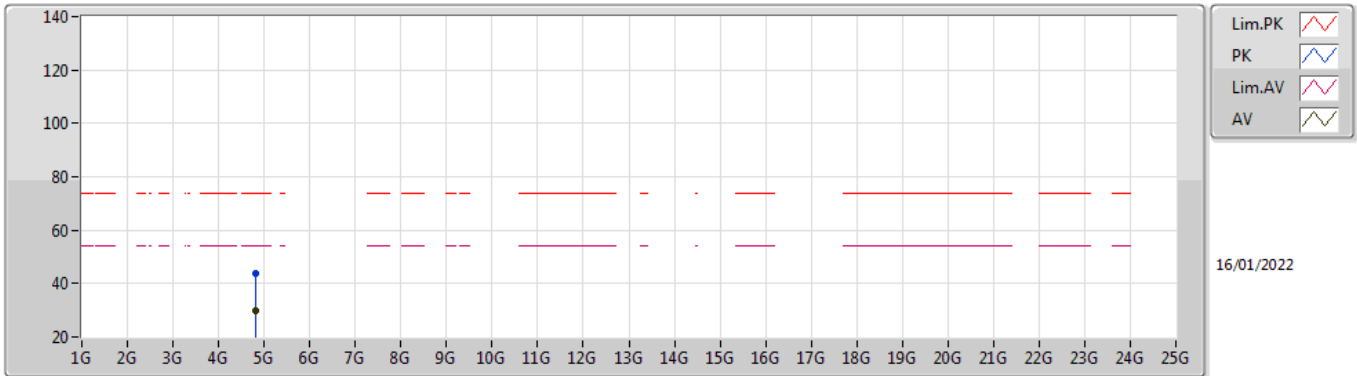


EUT Y_1TX
Setting 72
02-B-J-5

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	4.81792G	46.50	74.00	-27.50	40.86	3	Vertical	196	1.80	-	32.77	5.10	32.23
AV	4.82276G	32.00	54.00	-22.00	26.33	3	Vertical	196	1.80	-	32.79	5.10	32.22

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

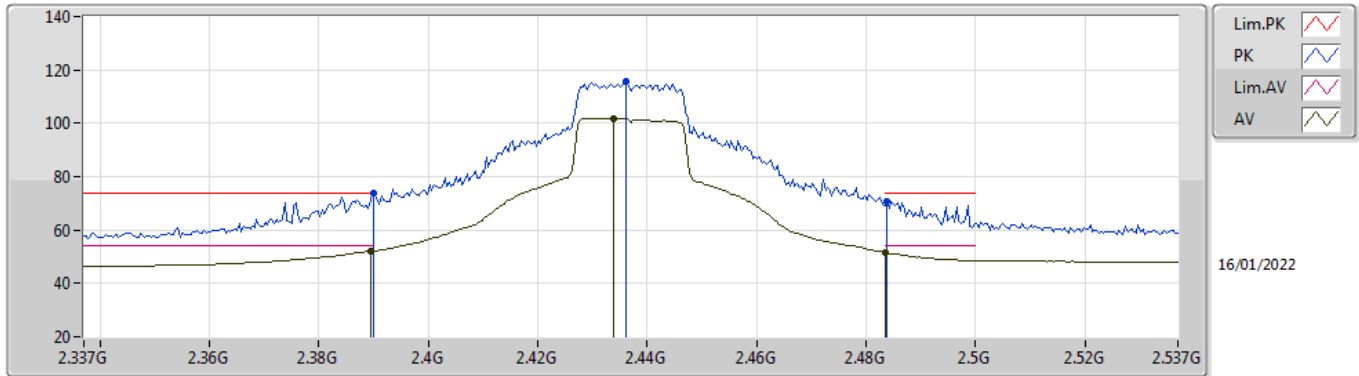


EUT Y_1TX
Setting 72
02-B-J-5

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	4.8276G	43.89	74.00	-30.11	38.20	3	Horizontal	216	1.71	-	32.81	5.10	32.22
AV	4.82648G	29.63	54.00	-24.37	23.94	3	Horizontal	216	1.71	-	32.81	5.10	32.22

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

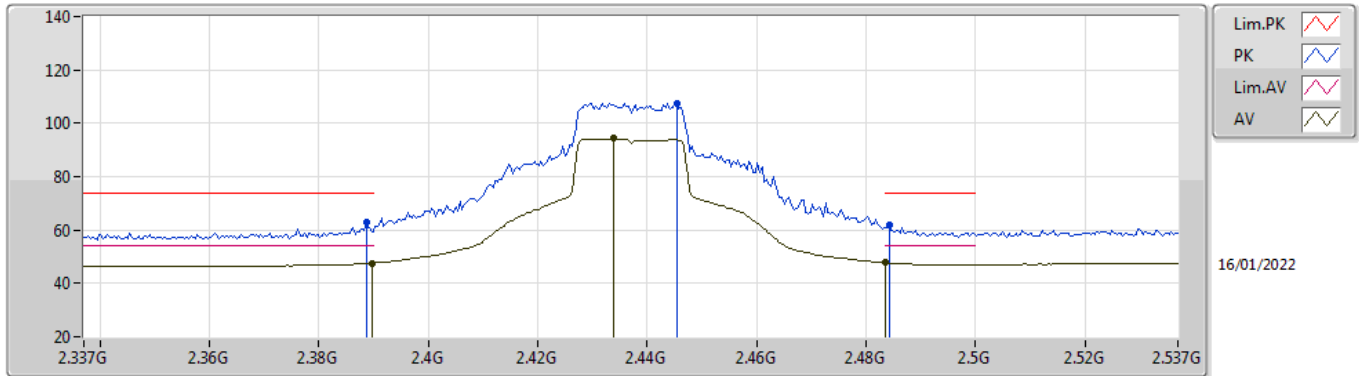


EUT_V_1TX
Setting 77
02-B-J-5

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	73.89	74.00	-0.11	42.72	3	Vertical	198	2.80	-	28.38	2.79	-
AV	2.3894G	52.01	54.00	-1.99	20.84	3	Vertical	198	2.80	-	28.38	2.79	-
PK	2.4362G	115.70	Inf	-Inf	84.46	3	Vertical	198	2.80	-	28.40	2.84	-
AV	2.4338G	101.92	Inf	-Inf	70.69	3	Vertical	198	2.80	-	28.40	2.83	-
PK	2.4838G	70.64	74.00	-3.36	39.22	3	Vertical	198	2.80	-	28.54	2.88	-
AV	2.4835G	51.38	54.00	-2.62	19.97	3	Vertical	198	2.80	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

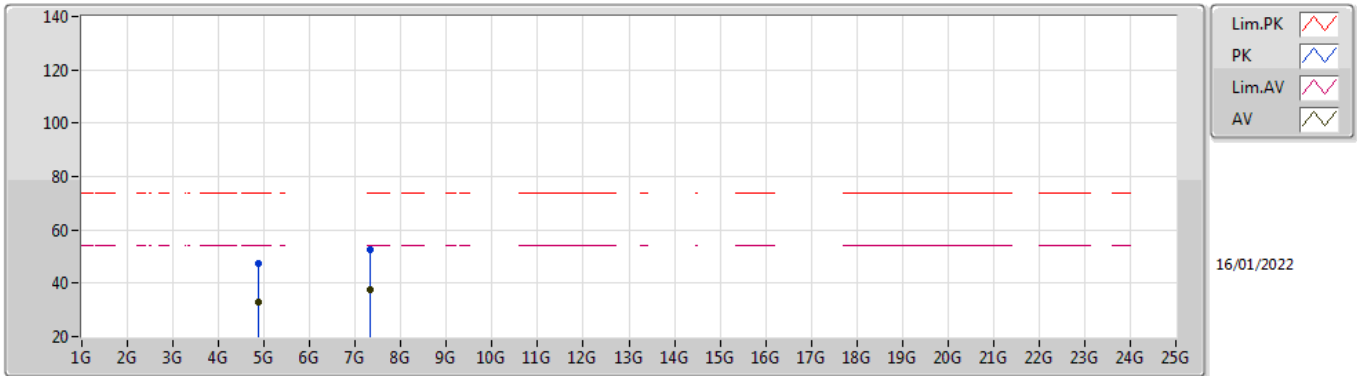


EUT_V_1TX
Setting 77
02-B-J-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	62.82	74.00	-11.18	31.65	3	Horizontal	91	2.83	-	28.38	2.79	-
AV	2.3898G	47.66	54.00	-6.34	16.49	3	Horizontal	91	2.83	-	28.38	2.79	-
PK	2.4454G	107.60	Inf	-Inf	76.35	3	Horizontal	91	2.83	-	28.40	2.85	-
AV	2.4338G	94.26	Inf	-Inf	63.03	3	Horizontal	91	2.83	-	28.40	2.83	-
PK	2.4842G	62.10	74.00	-11.90	30.68	3	Horizontal	91	2.83	-	28.54	2.88	-
AV	2.4835G	47.78	54.00	-6.22	16.37	3	Horizontal	91	2.83	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

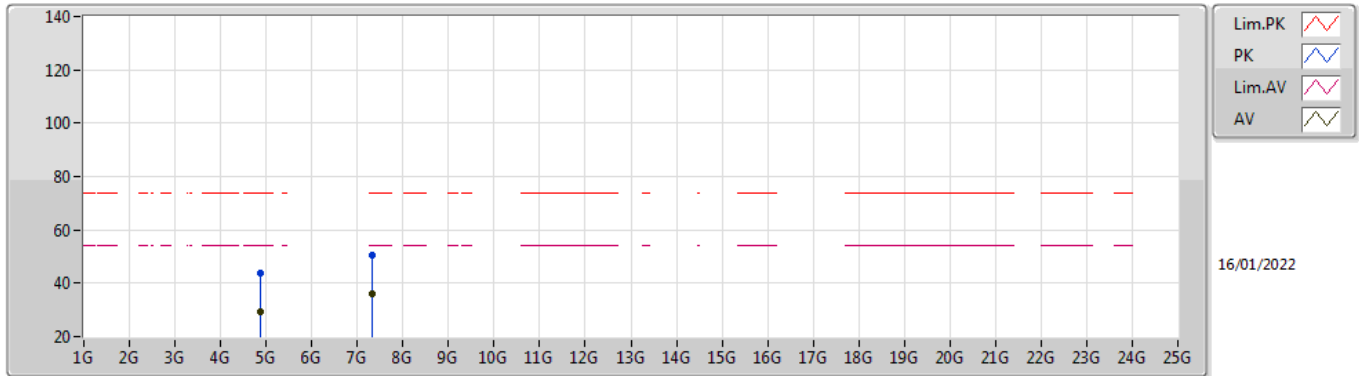


EUT Y_1TX
Setting 77
02-B-J-5

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	4.87368G	47.42	74.00	-26.58	41.58	3	Vertical	208	2.05	-	32.95	5.10	32.21
AV	4.87564G	32.88	54.00	-21.12	27.03	3	Vertical	208	2.05	-	32.95	5.10	32.20
PK	7.31812G	52.73	74.00	-21.27	42.96	3	Vertical	201	1.80	-	36.44	6.16	32.83
AV	7.31356G	37.61	54.00	-16.39	27.85	3	Vertical	201	1.80	-	36.43	6.16	32.83

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

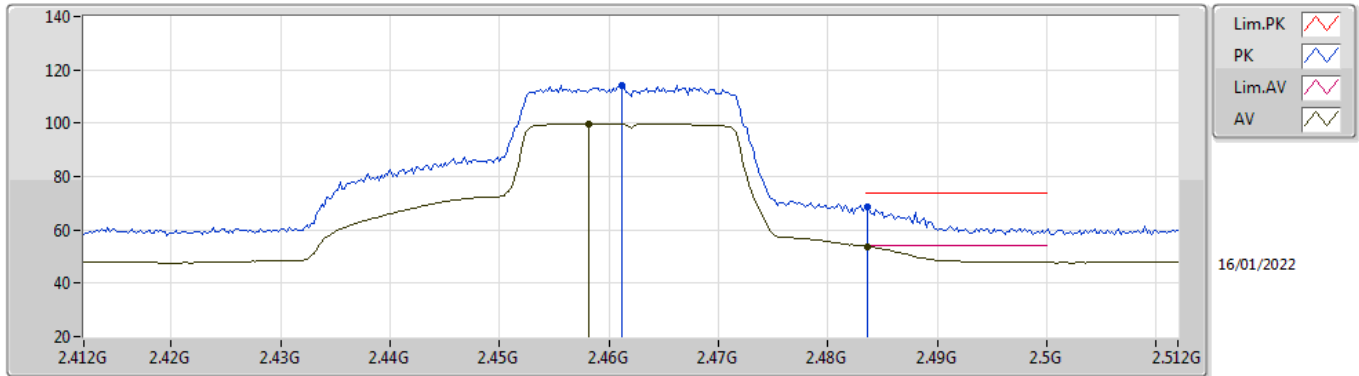


EUT Y_1TX
Setting 77
02-B-J-5

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	4.88216G	43.82	74.00	-30.18	37.96	3	Horizontal	197	2.47	-	32.96	5.10	32.20
AV	4.87584G	29.55	54.00	-24.45	23.70	3	Horizontal	197	2.47	-	32.95	5.10	32.20
PK	7.31268G	50.43	74.00	-23.57	40.66	3	Horizontal	89	1.82	-	36.43	6.16	32.82
AV	7.3152G	36.08	54.00	-17.92	26.32	3	Horizontal	89	1.82	-	36.43	6.16	32.83

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

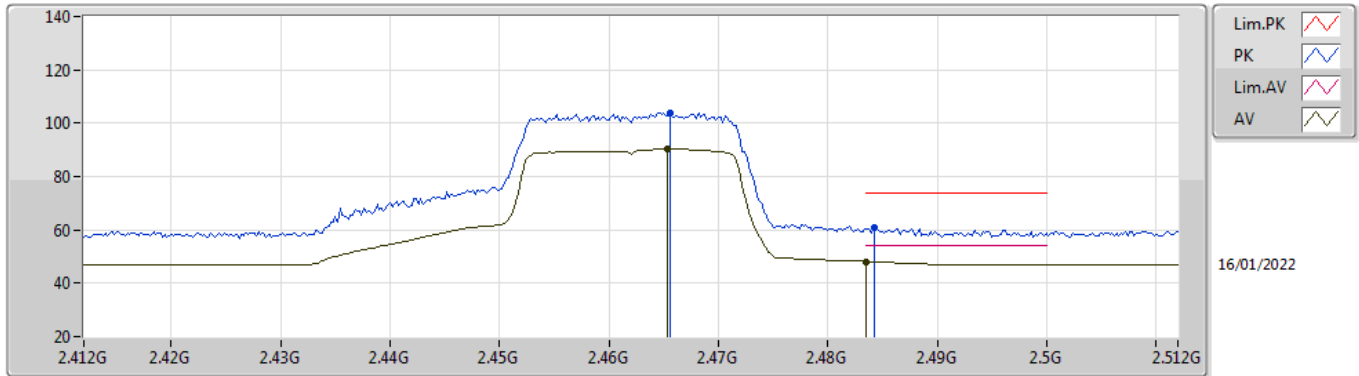


EUT V_1TX
Setting 71
02-B-J-5

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	2.4612G	114.27	Inf	-Inf	82.97	3	Vertical	200	2.46	-	28.44	2.86	-
AV	2.4582G	99.87	Inf	-Inf	68.58	3	Vertical	200	2.46	-	28.43	2.86	-
PK	2.4836G	68.43	74.00	-5.57	37.02	3	Vertical	200	2.46	-	28.53	2.88	-
AV	2.4836G	53.81	54.00	-0.19	22.40	3	Vertical	200	2.46	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

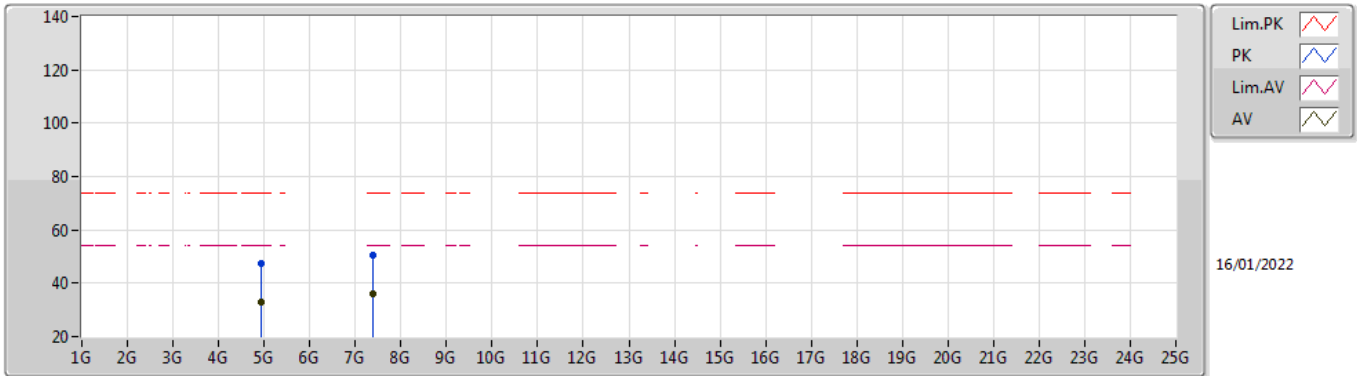


EUT V_1TX
Setting 71
02-B-J-5

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	2.4656G	104.03	Inf	-Inf	72.70	3	Horizontal	311	1.78	-	28.46	2.87	-
AV	2.4654G	90.26	Inf	-Inf	58.93	3	Horizontal	311	1.78	-	28.46	2.87	-
PK	2.4842G	60.77	74.00	-13.23	29.35	3	Horizontal	311	1.78	-	28.54	2.88	-
AV	2.4835G	48.17	54.00	-5.83	16.76	3	Horizontal	311	1.78	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

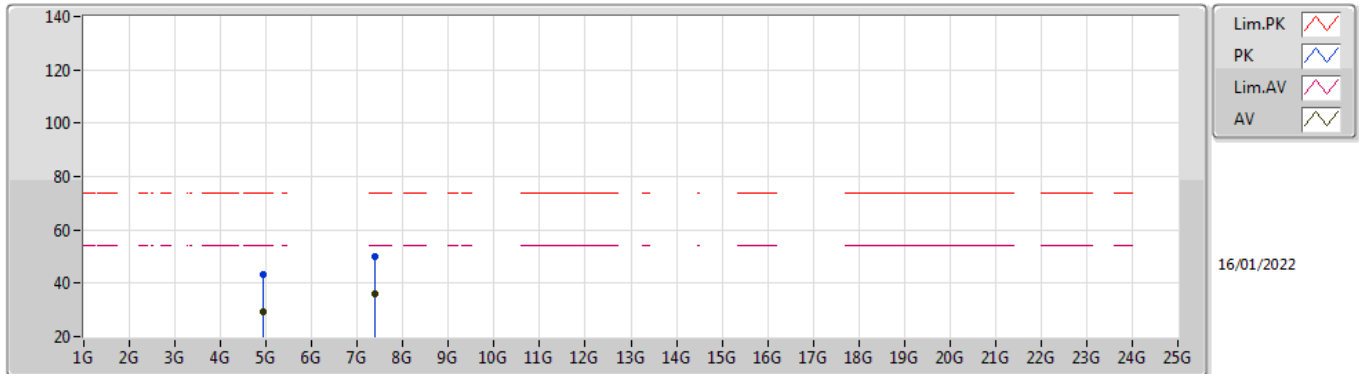


EUT Y_1TX
Setting 71
02-B-J-5

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	4.92492G	47.31	74.00	-26.69	41.25	3	Vertical	253	1.99	-	33.15	5.10	32.19
AV	4.92888G	32.87	54.00	-21.13	26.79	3	Vertical	253	1.99	-	33.17	5.10	32.19
PK	7.39304G	50.28	74.00	-23.72	40.45	3	Vertical	112	1.02	-	36.59	6.20	32.96
AV	7.38424G	36.13	54.00	-17.87	26.32	3	Vertical	112	1.02	-	36.57	6.19	32.95

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

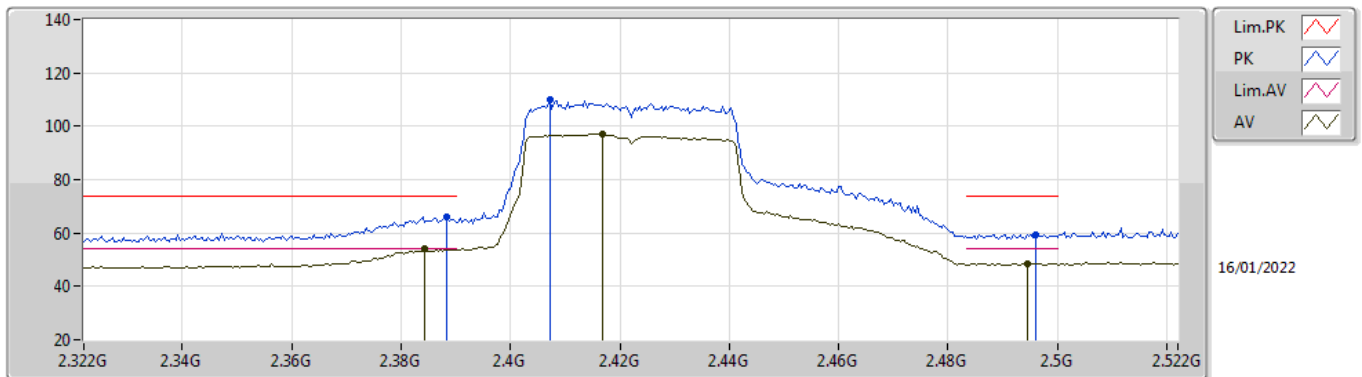


EUT Y_1TX
Setting 71
02-B-J-5

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	4.93312G	43.38	74.00	-30.62	37.26	3	Horizontal	110	1.03	-	33.20	5.10	32.18
AV	4.92892G	29.51	54.00	-24.49	23.43	3	Horizontal	110	1.03	-	33.17	5.10	32.19
PK	7.37708G	50.02	74.00	-23.98	40.22	3	Horizontal	26	2.85	-	36.55	6.19	32.94
AV	7.3846G	36.10	54.00	-17.90	26.29	3	Horizontal	26	2.85	-	36.57	6.19	32.95

802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX

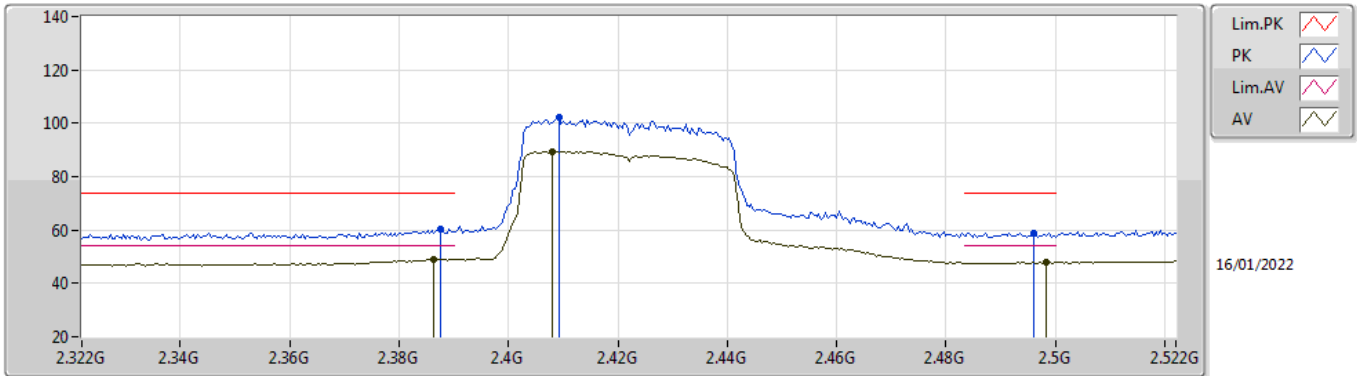


EUT_V_1TX
Setting 66
02-B-J-5

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	66.10	74.00	-7.90	34.93	3	Vertical	173	2.57	-	28.38	2.79	-
AV	2.3844G	53.88	54.00	-0.12	22.72	3	Vertical	173	2.57	-	28.37	2.79	-
PK	2.4072G	109.77	Inf	-Inf	78.56	3	Vertical	173	2.57	-	28.40	2.81	-
AV	2.4168G	97.05	Inf	-Inf	65.83	3	Vertical	173	2.57	-	28.40	2.82	-
PK	2.496G	59.51	74.00	-14.49	28.03	3	Vertical	173	2.57	-	28.58	2.90	-
AV	2.4944G	48.52	54.00	-5.48	17.05	3	Vertical	173	2.57	-	28.58	2.89	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX

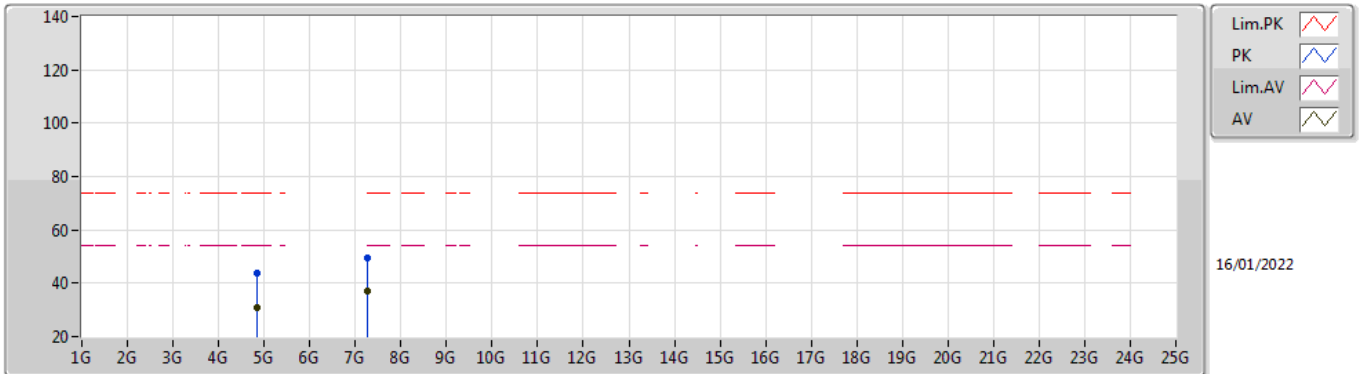


EUT V_1TX
Setting 66
02-B-J-5

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	2.3876G	60.36	74.00	-13.64	29.19	3	Horizontal	298	2.84	-	28.38	2.79	-
AV	2.3864G	49.21	54.00	-4.79	18.05	3	Horizontal	298	2.84	-	28.37	2.79	-
PK	2.4092G	102.17	Inf	-Inf	70.96	3	Horizontal	298	2.84	-	28.40	2.81	-
AV	2.408G	89.50	Inf	-Inf	58.29	3	Horizontal	298	2.84	-	28.40	2.81	-
PK	2.496G	58.93	74.00	-15.07	27.45	3	Horizontal	298	2.84	-	28.58	2.90	-
AV	2.4984G	47.87	54.00	-6.13	16.38	3	Horizontal	298	2.84	-	28.59	2.90	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX

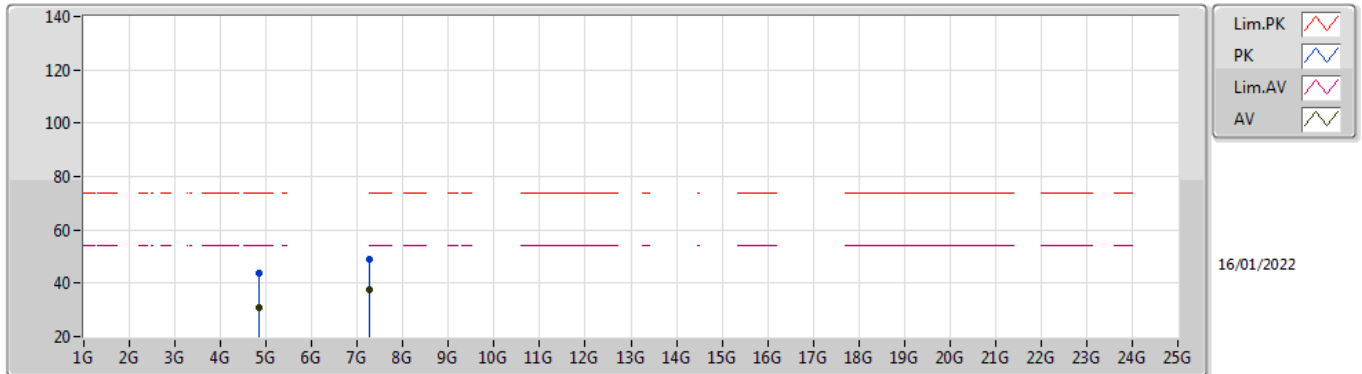


EUT Y_1TX
Setting 66
02-B-J-5

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	4.85376G	43.60	74.00	-30.40	37.80	3	Vertical	135	2.58	-	32.91	5.10	32.21
AV	4.84672G	30.63	54.00	-23.37	24.86	3	Vertical	135	2.58	-	32.89	5.10	32.22
PK	7.26312G	49.52	74.00	-24.48	39.95	3	Vertical	165	2.79	-	36.18	6.13	32.74
AV	7.26688G	37.10	54.00	-16.90	27.51	3	Vertical	165	2.79	-	36.20	6.13	32.74

802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX

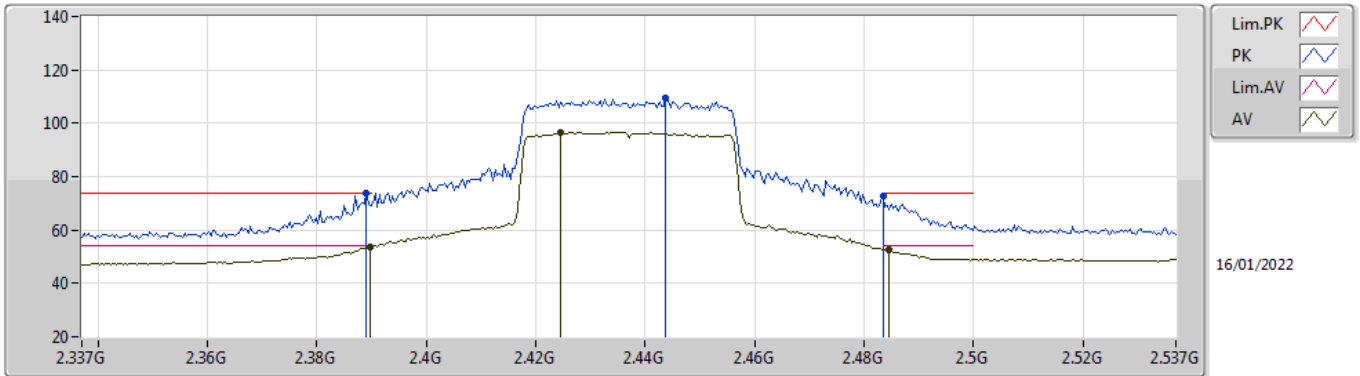


EUT Y_1TX
Setting 66
02-B-J-5

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	4.8476G	43.64	74.00	-30.36	37.86	3	Horizontal	317	2.67	-	32.89	5.10	32.21
AV	4.83804G	30.77	54.00	-23.23	25.04	3	Horizontal	317	2.67	-	32.85	5.10	32.22
PK	7.25764G	49.07	74.00	-24.93	39.52	3	Horizontal	170	2.86	-	36.15	6.13	32.73
AV	7.26072G	37.33	54.00	-16.67	27.77	3	Horizontal	170	2.86	-	36.16	6.13	32.73

802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX

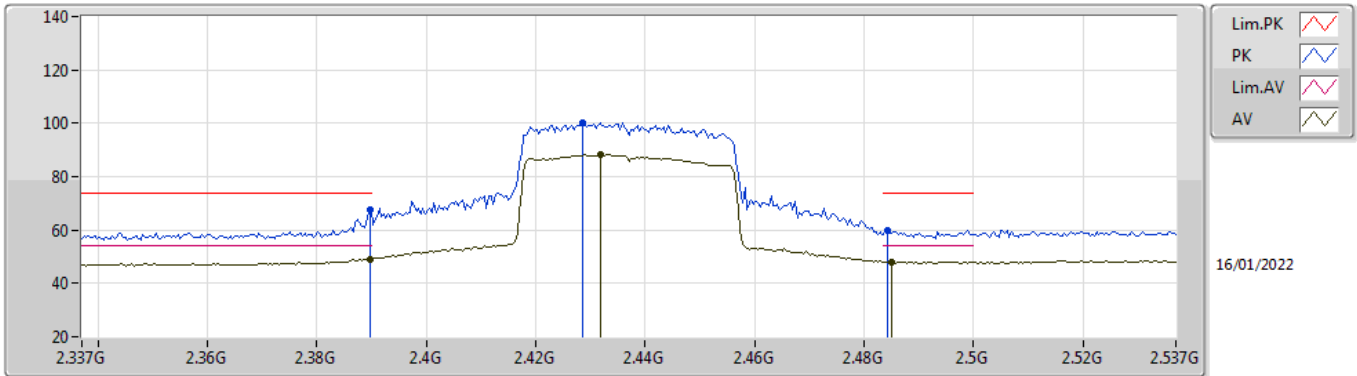


EUT_V_1TX
Setting 63
02-B-J-5

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	2.389G	73.70	74.00	-0.30	42.53	3	Vertical	174	2.29	-	28.38	2.79	-
AV	2.3898G	53.84	54.00	-0.16	22.67	3	Vertical	174	2.29	-	28.38	2.79	-
PK	2.4438G	109.33	Inf	-Inf	78.09	3	Vertical	174	2.29	-	28.40	2.84	-
AV	2.4246G	96.68	Inf	-Inf	65.46	3	Vertical	174	2.29	-	28.40	2.82	-
PK	2.4835G	72.64	74.00	-1.36	41.23	3	Vertical	174	2.29	-	28.53	2.88	-
AV	2.4846G	52.68	54.00	-1.32	21.26	3	Vertical	174	2.29	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX

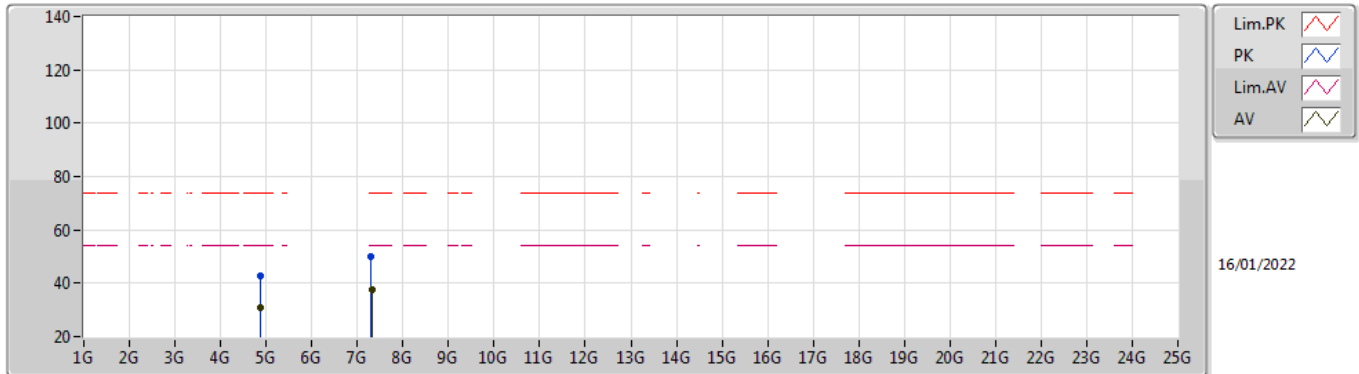


EUT_V_1TX
Setting 63
02-B-J-5

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	67.55	74.00	-6.45	36.38	3	Horizontal	301	2.78	-	28.38	2.79	-
AV	2.3898G	49.12	54.00	-4.88	17.95	3	Horizontal	301	2.78	-	28.38	2.79	-
PK	2.4286G	100.25	Inf	-Inf	69.02	3	Horizontal	301	2.78	-	28.40	2.83	-
AV	2.4318G	88.41	Inf	-Inf	57.18	3	Horizontal	301	2.78	-	28.40	2.83	-
PK	2.4842G	59.89	74.00	-14.11	28.47	3	Horizontal	301	2.78	-	28.54	2.88	-
AV	2.485G	48.14	54.00	-5.86	16.71	3	Horizontal	301	2.78	-	28.54	2.89	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX

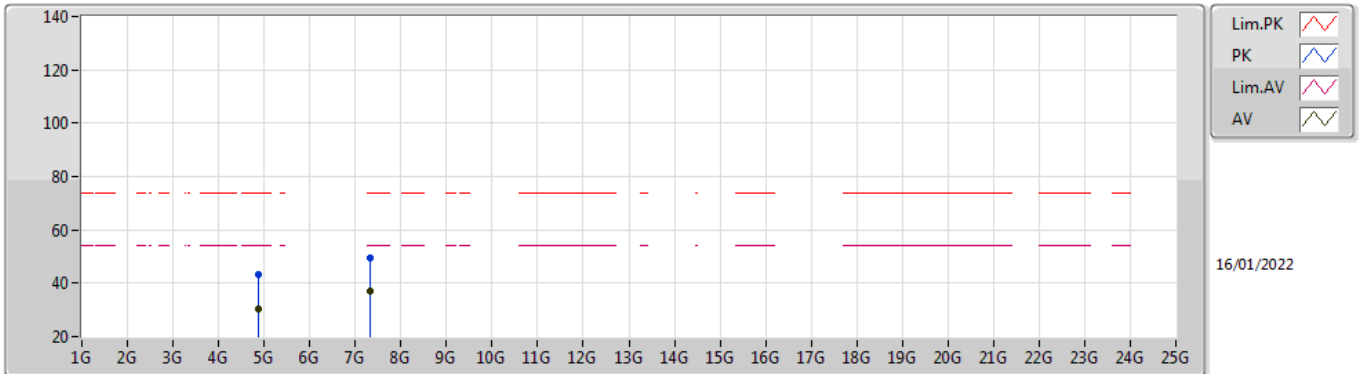


EUT Y_1TX
Setting 63
02-B-J-5

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	4.87792G	42.68	74.00	-31.32	36.82	3	Vertical	19	2.39	-	32.96	5.10	32.20
AV	4.87932G	30.75	54.00	-23.25	24.89	3	Vertical	19	2.39	-	32.96	5.10	32.20
PK	7.3034G	49.79	74.00	-24.21	40.04	3	Vertical	288	1.38	-	36.41	6.15	32.81
AV	7.31888G	37.38	54.00	-16.62	27.61	3	Vertical	288	1.38	-	36.44	6.16	32.83

802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX

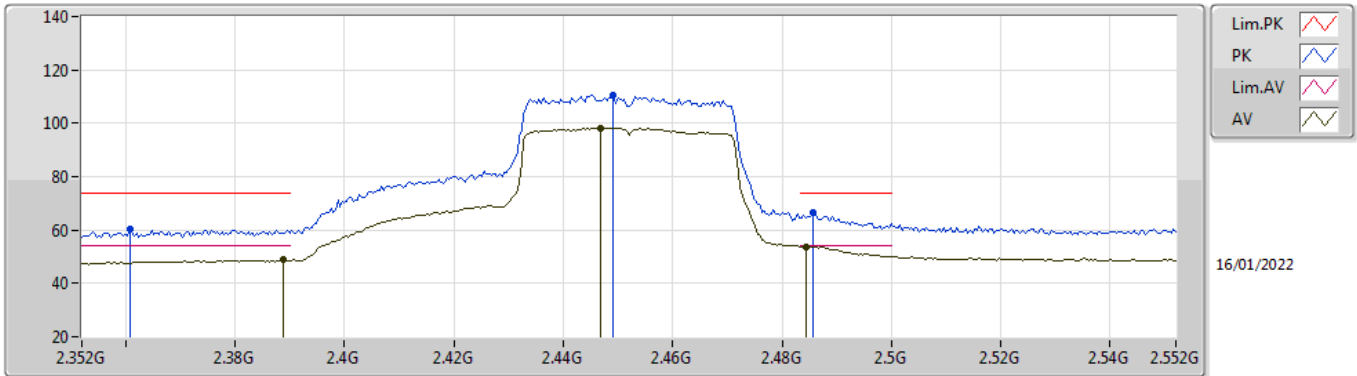


EUT Y_1TX
Setting 63
02-B-J-5

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	4.86876G	43.38	74.00	-30.62	37.55	3	Horizontal	170	1.95	-	32.94	5.10	32.21
AV	4.87584G	30.60	54.00	-23.40	24.75	3	Horizontal	170	1.95	-	32.95	5.10	32.20
PK	7.31044G	49.50	74.00	-24.50	39.74	3	Horizontal	67	2.91	-	36.42	6.16	32.82
AV	7.32048G	37.18	54.00	-16.82	27.42	3	Horizontal	67	2.91	-	36.44	6.16	32.84

802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX

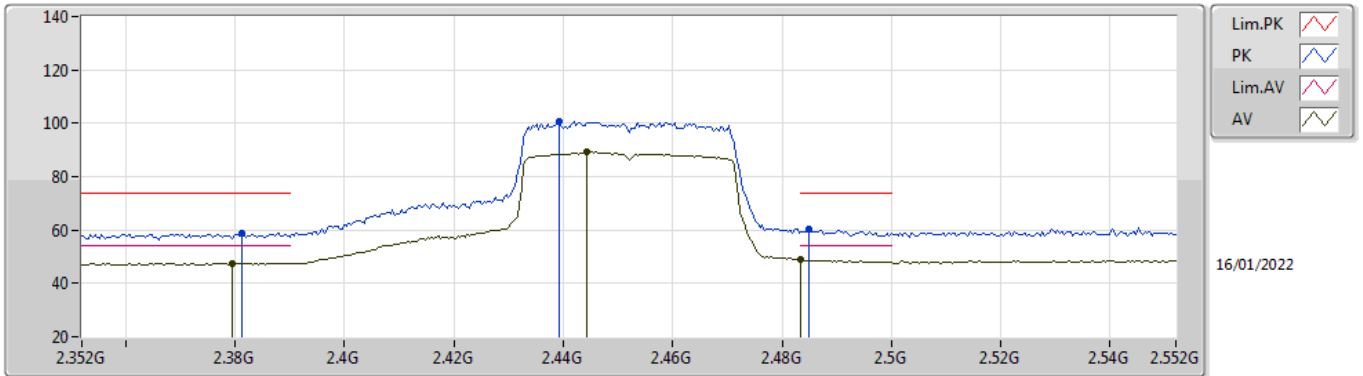


EUT_V_1TX
Setting 68
02-B-J-5

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	2.3608G	60.11	74.00	-13.89	29.01	3	Vertical	193	2.24	-	28.32	2.78	-
AV	2.3888G	48.84	54.00	-5.16	17.67	3	Vertical	193	2.24	-	28.38	2.79	-
PK	2.4492G	110.47	Inf	-Inf	79.22	3	Vertical	193	2.24	-	28.40	2.85	-
AV	2.4468G	98.24	Inf	-Inf	66.99	3	Vertical	193	2.24	-	28.40	2.85	-
PK	2.4856G	66.33	74.00	-7.67	34.90	3	Vertical	193	2.24	-	28.54	2.89	-
AV	2.4844G	53.87	54.00	-0.13	22.45	3	Vertical	193	2.24	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX

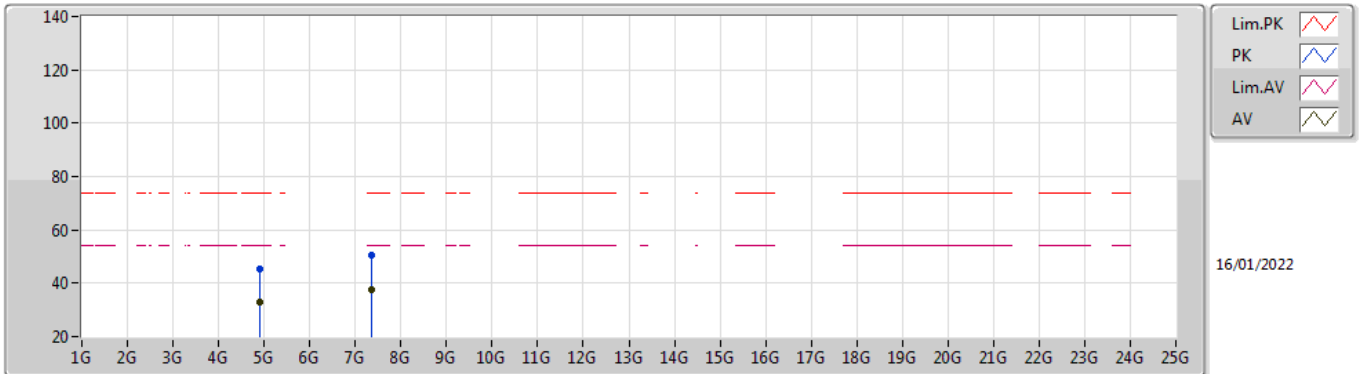


EUT_V_1TX
Setting 68
02-B-J-5

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	2.3812G	58.78	74.00	-15.22	27.63	3	Horizontal	308	2.74	-	28.36	2.79	-
AV	2.3796G	47.60	54.00	-6.40	16.45	3	Horizontal	308	2.74	-	28.36	2.79	-
PK	2.4392G	100.74	Inf	-Inf	69.50	3	Horizontal	308	2.74	-	28.40	2.84	-
AV	2.4444G	89.21	Inf	-Inf	57.97	3	Horizontal	308	2.74	-	28.40	2.84	-
PK	2.4848G	60.24	74.00	-13.76	28.82	3	Horizontal	308	2.74	-	28.54	2.88	-
AV	2.4835G	48.84	54.00	-5.16	17.43	3	Horizontal	308	2.74	-	28.53	2.88	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX

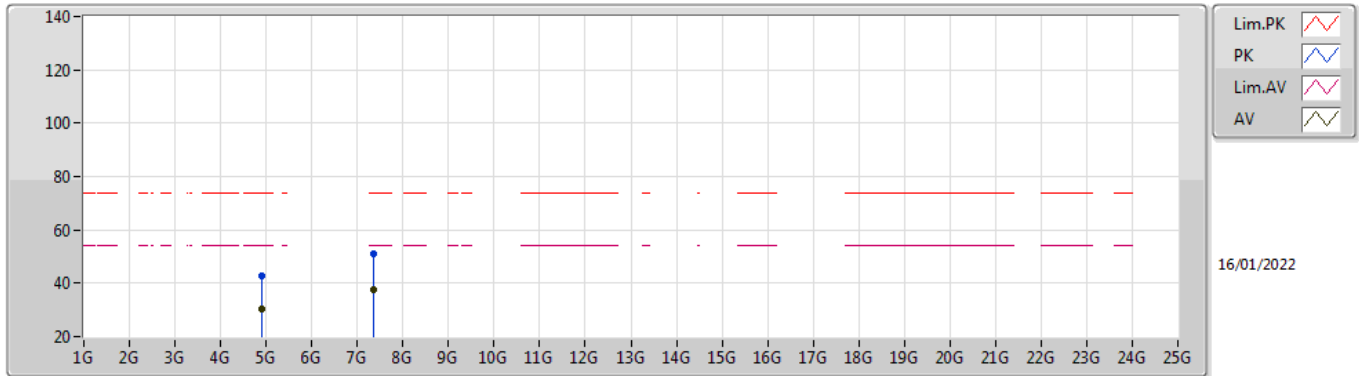


EUT V_1TX
Setting 68
02-B-J-5

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	4.90552G	45.23	74.00	-28.77	39.29	3	Vertical	201	1.80	-	33.03	5.10	32.19
AV	4.91144G	32.80	54.00	-21.20	26.82	3	Vertical	201	1.80	-	33.07	5.10	32.19
PK	7.36184G	50.67	74.00	-23.33	40.88	3	Vertical	351	2.17	-	36.52	6.18	32.91
AV	7.35008G	37.54	54.00	-16.46	27.75	3	Vertical	351	2.17	-	36.50	6.18	32.89

802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX



EUT Y_1TX
Setting 68
02-B-J-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	4.908G	42.86	74.00	-31.14	36.90	3	Horizontal	53	1.72	-	33.05	5.10	32.19
AV	4.9072G	30.50	54.00	-23.50	24.55	3	Horizontal	53	1.72	-	33.04	5.10	32.19
PK	7.36024G	50.87	74.00	-23.13	41.08	3	Horizontal	132	1.94	-	36.52	6.18	32.91
AV	7.3496G	37.46	54.00	-16.54	27.68	3	Horizontal	132	1.94	-	36.50	6.17	32.89

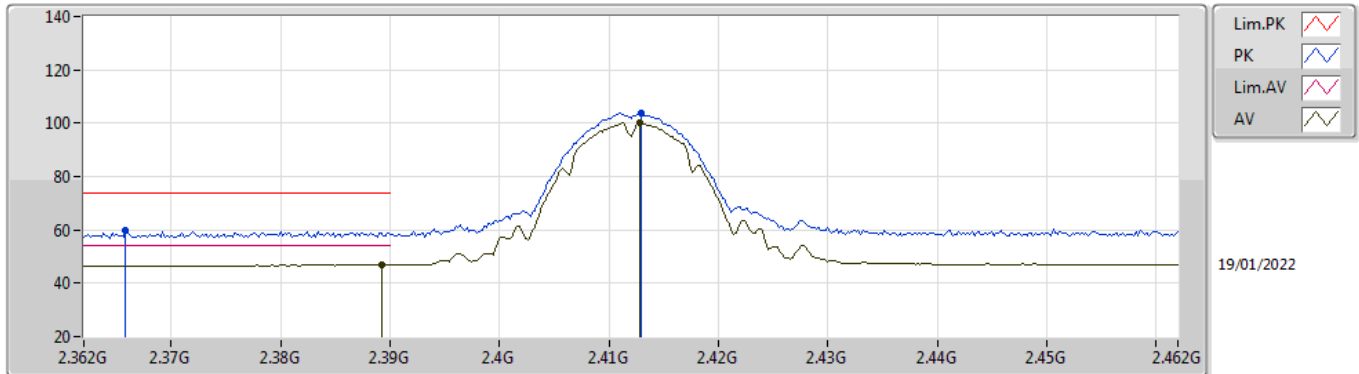


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	53.99	54.00	-0.01	3	Horizontal	183	1.65	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

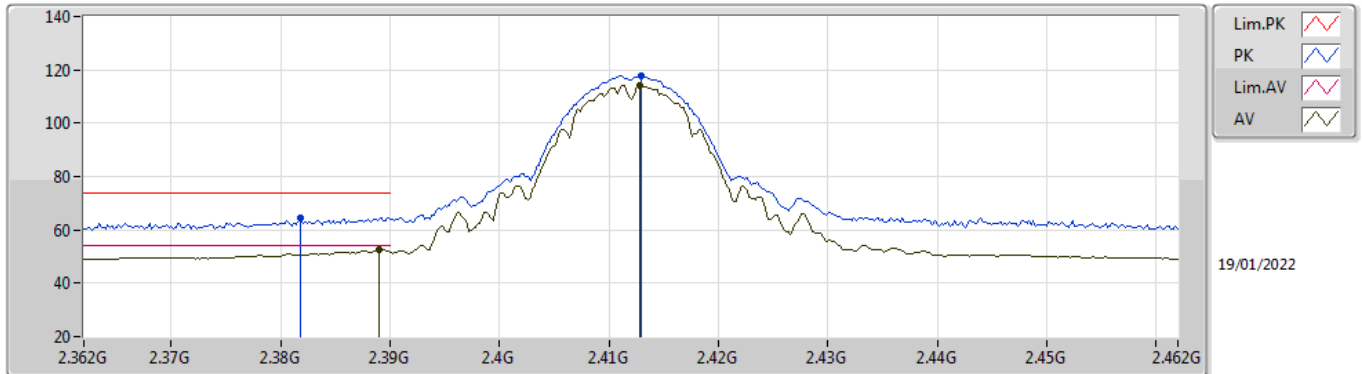


EUT Y_1TX
Setting 79
02-B-C-5

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	2.3658G	59.86	74.00	-14.14	28.75	3	Vertical	175	1.87	-	28.33	2.78	-
AV	2.3892G	46.93	54.00	-7.07	15.76	3	Vertical	175	1.87	-	28.38	2.79	-
PK	2.413G	103.82	Inf	-Inf	72.61	3	Vertical	175	1.87	-	28.40	2.81	-
AV	2.4128G	100.03	Inf	-Inf	68.82	3	Vertical	175	1.87	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

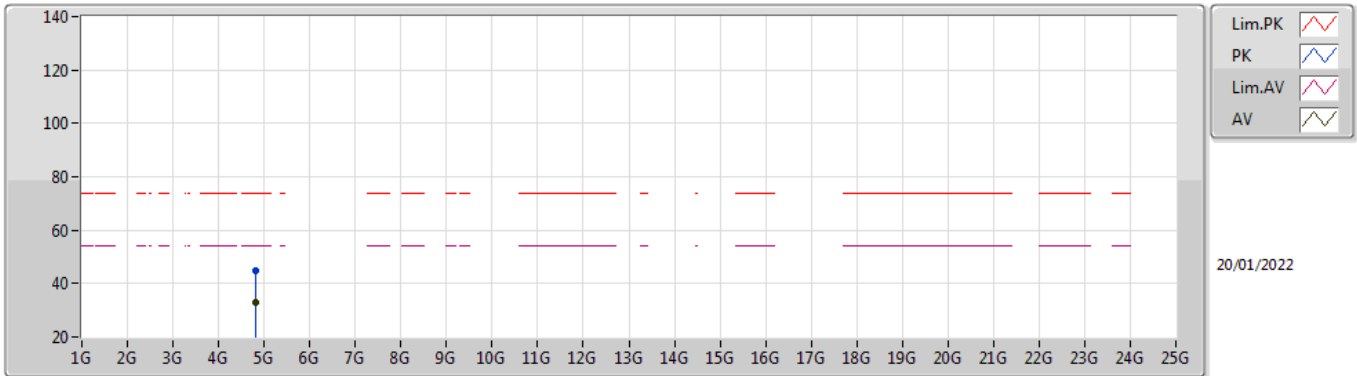


EUT Y_1TX
Setting 79
02-B-C-5

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	2.3818G	64.59	74.00	-9.41	33.44	3	Horizontal	186	1.68	-	28.36	2.79	-
AV	2.389G	52.38	54.00	-1.62	21.21	3	Horizontal	186	1.68	-	28.38	2.79	-
PK	2.413G	117.90	Inf	-Inf	86.69	3	Horizontal	186	1.68	-	28.40	2.81	-
AV	2.4128G	114.08	Inf	-Inf	82.87	3	Horizontal	186	1.68	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

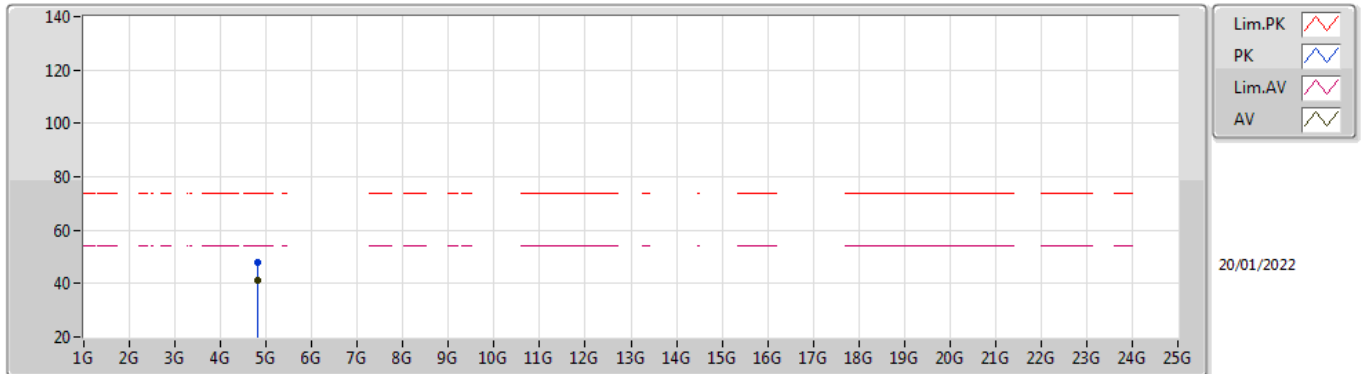


EUT Y_1TX
Setting 79
02-B-C-5

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)
AV	4.824G	32.80	54.00	-21.20	27.12	3	Vertical	201	1.96	-	32.80	5.10	32.22
PK	4.8239G	44.97	74.00	-29.03	39.29	3	Vertical	201	1.96	-	32.80	5.10	32.22

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

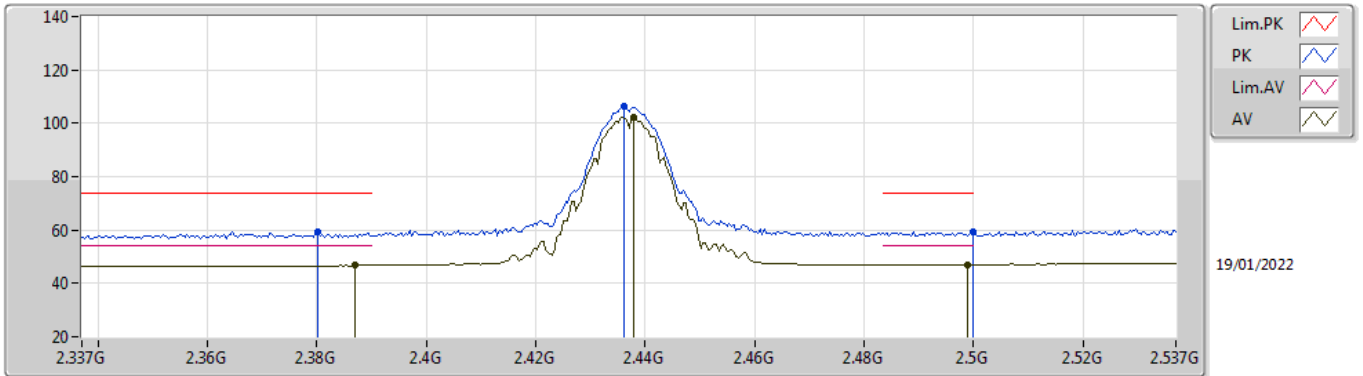


EUT Y_1TX
Setting 79
02-B-C-5

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)
AV	4.82398G	41.34	54.00	-12.66	35.66	3	Horizontal	148	1.80	-	32.80	5.10	32.22
PK	4.82394G	48.15	74.00	-25.85	42.47	3	Horizontal	148	1.80	-	32.80	5.10	32.22

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

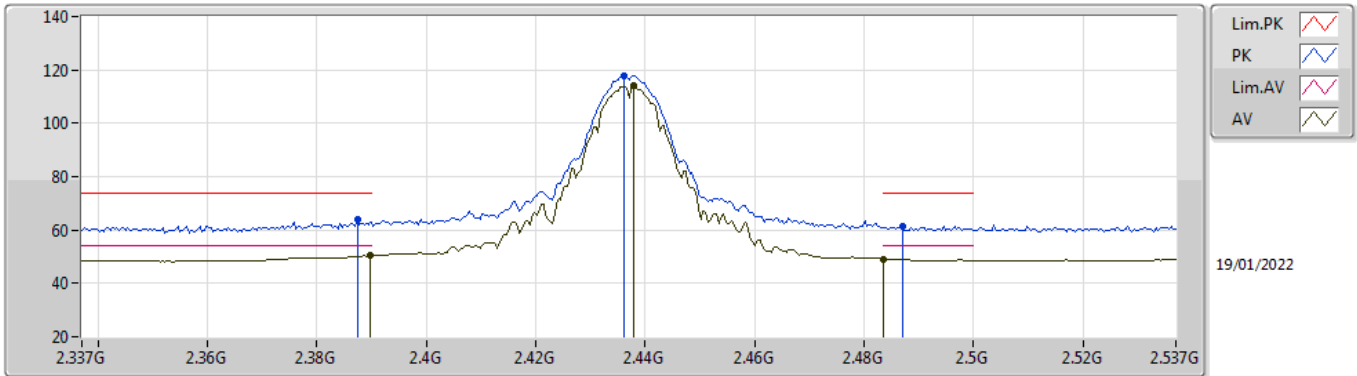


EUT_Y_1TX
Setting 84
02-B-C-5

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	2.3802G	59.38	74.00	-14.62	28.23	3	Vertical	175	2.10	-	28.36	2.79	-
AV	2.387G	46.77	54.00	-7.23	15.61	3	Vertical	175	2.10	-	28.37	2.79	-
PK	2.4362G	106.13	Inf	-Inf	74.89	3	Vertical	175	2.10	-	28.40	2.84	-
AV	2.4378G	102.17	Inf	-Inf	70.93	3	Vertical	175	2.10	-	28.40	2.84	-
PK	2.4998G	59.49	74.00	-14.51	27.99	3	Vertical	175	2.10	-	28.60	2.90	-
AV	2.499G	47.04	54.00	-6.96	15.54	3	Vertical	175	2.10	-	28.60	2.90	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

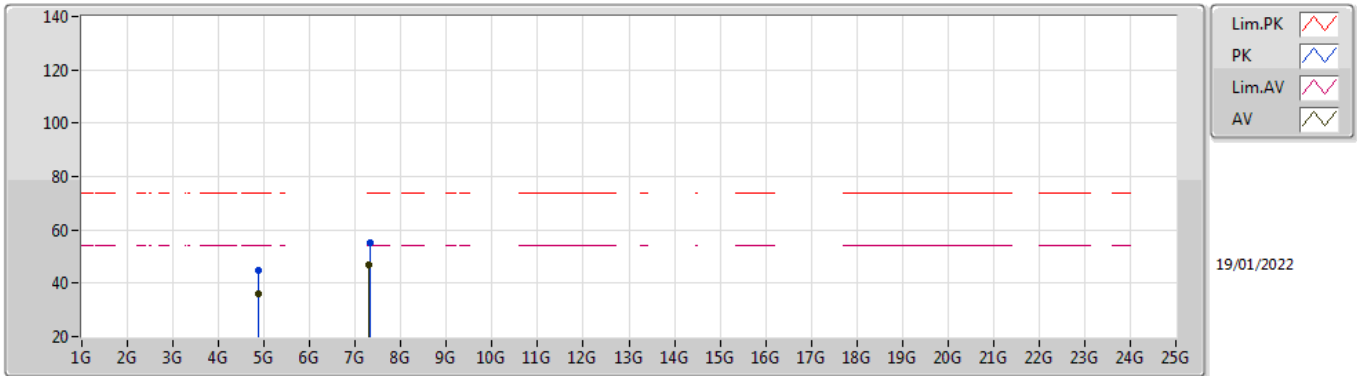


EUT Y_1TX
Setting 84
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	64.01	74.00	-9.99	32.85	3	Horizontal	191	1.83	-	28.37	2.79	-
AV	2.3898G	50.46	54.00	-3.54	19.29	3	Horizontal	191	1.83	-	28.38	2.79	-
PK	2.4362G	117.97	Inf	-Inf	86.73	3	Horizontal	191	1.83	-	28.40	2.84	-
AV	2.4378G	114.00	Inf	-Inf	82.76	3	Horizontal	191	1.83	-	28.40	2.84	-
PK	2.487G	61.29	74.00	-12.71	29.85	3	Horizontal	191	1.83	-	28.55	2.89	-
AV	2.4835G	49.22	54.00	-4.78	17.81	3	Horizontal	191	1.83	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

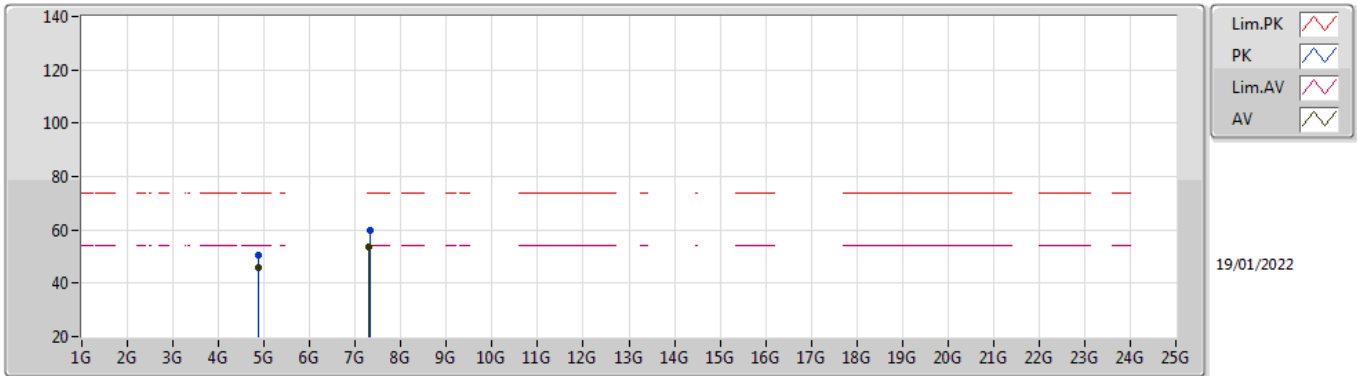


EUT Y_1TX
Setting 84
02-B-C-5

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	4.8741G	45.04	74.00	-28.96	39.20	3	Vertical	200	1.82	-	32.95	5.10	32.21
AV	4.87396G	35.95	54.00	-18.05	30.11	3	Vertical	200	1.82	-	32.95	5.10	32.21
PK	7.312G	55.13	74.00	-18.87	45.37	3	Vertical	172	1.80	-	36.42	6.16	32.82
AV	7.3102G	47.05	54.00	-6.95	37.29	3	Vertical	172	1.80	-	36.42	6.16	32.82

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

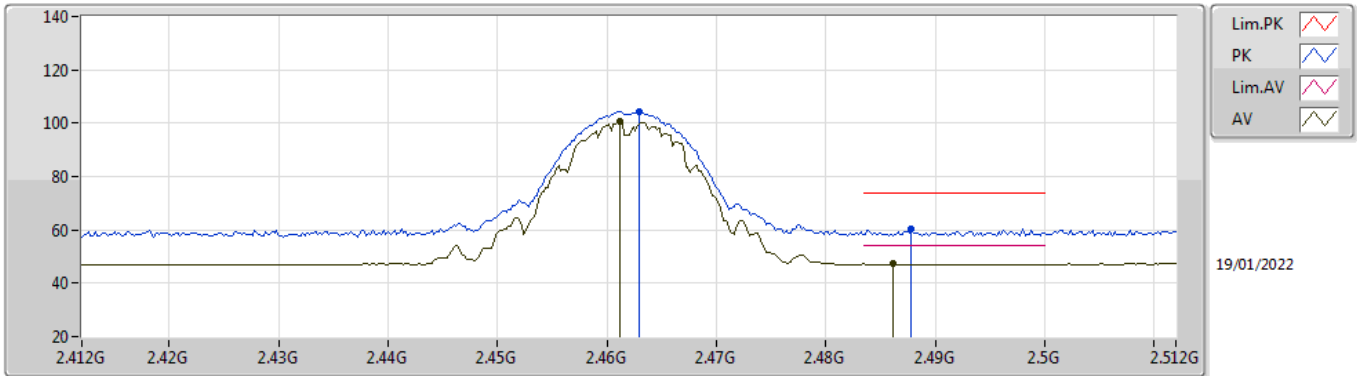


EUT Y_1TX
Setting 84
02-B-C-5

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	4.8739G	50.27	74.00	-23.73	44.43	3	Horizontal	158	1.50	-	32.95	5.10	32.21
AV	4.87398G	46.00	54.00	-8.00	40.16	3	Horizontal	158	1.50	-	32.95	5.10	32.21
PK	7.3119G	59.71	74.00	-14.29	49.95	3	Horizontal	176	1.77	-	36.42	6.16	32.82
AV	7.30972G	53.81	54.00	-0.19	44.06	3	Horizontal	176	1.77	-	36.42	6.15	32.82

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

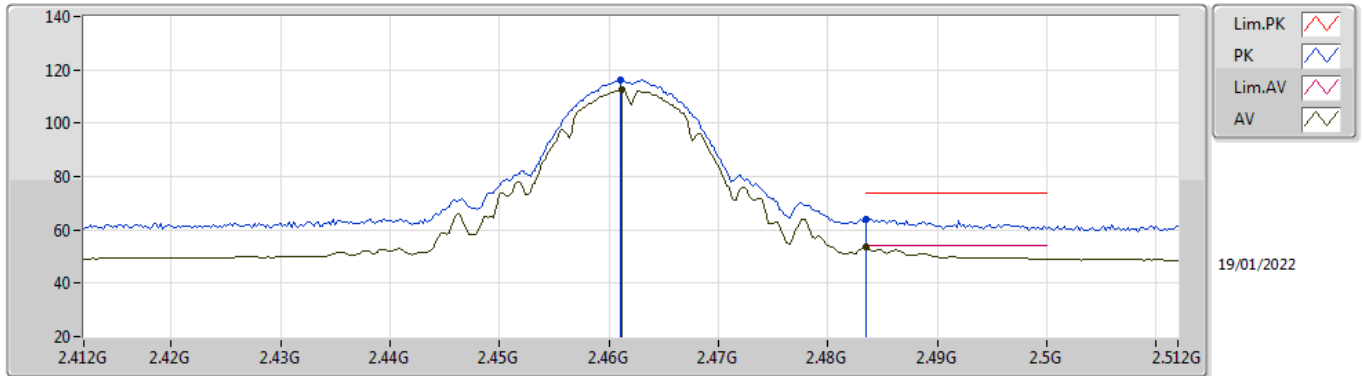


EUT Y_1TX
Setting 79
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	104.43	Inf	-Inf	73.12	3	Vertical	143	1.90	-	28.45	2.86	-
AV	2.4612G	100.67	Inf	-Inf	69.37	3	Vertical	143	1.90	-	28.44	2.86	-
PK	2.4878G	60.17	74.00	-13.83	28.73	3	Vertical	143	1.90	-	28.55	2.89	-
AV	2.4862G	47.19	54.00	-6.81	15.76	3	Vertical	143	1.90	-	28.54	2.89	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

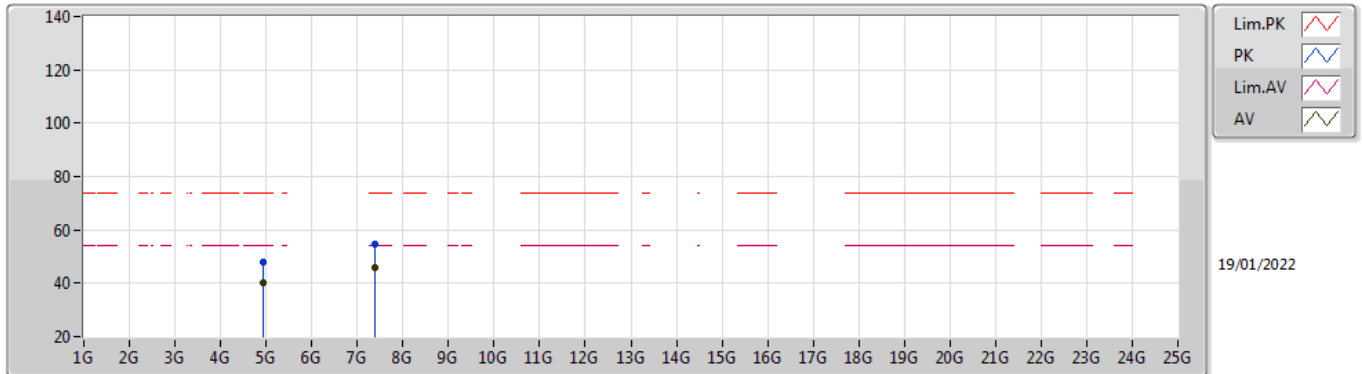


EUT Y_1TX
Setting 79
02-B-C-5

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	116.19	Inf	-Inf	84.89	3	Horizontal	185	1.27	-	28.44	2.86	-
AV	2.4612G	112.52	Inf	-Inf	81.22	3	Horizontal	185	1.27	-	28.44	2.86	-
PK	2.4835G	64.16	74.00	-9.84	32.75	3	Horizontal	185	1.27	-	28.53	2.88	-
AV	2.4835G	53.78	54.00	-0.22	22.37	3	Horizontal	185	1.27	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

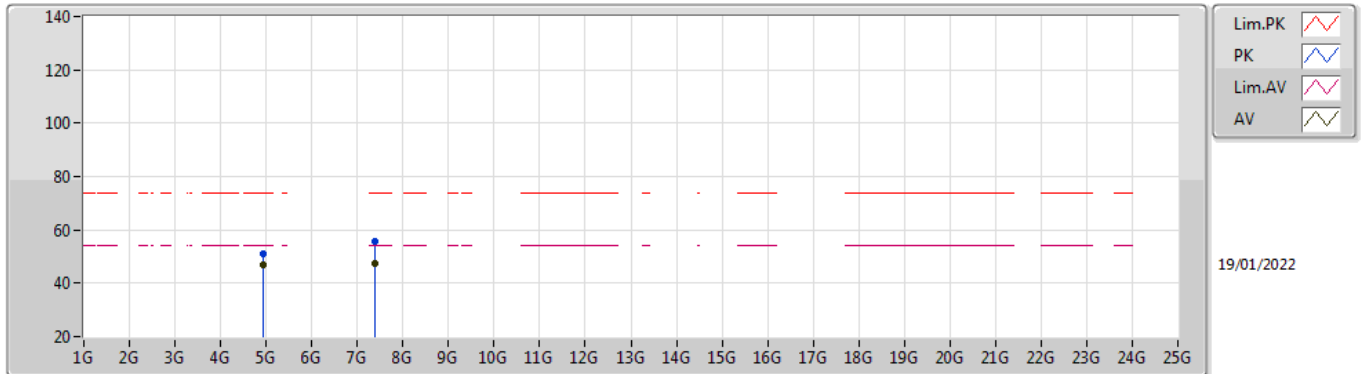


EUT Y_1TX
Setting 79
02-B-C-5

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	4.92384G	47.74	74.00	-26.26	41.69	3	Vertical	176	2.95	-	33.14	5.10	32.19
AV	4.92396G	39.94	54.00	-14.06	33.89	3	Vertical	176	2.95	-	33.14	5.10	32.19
PK	7.38506G	54.61	74.00	-19.39	44.80	3	Vertical	188	1.98	-	36.57	6.19	32.95
AV	7.38418G	45.65	54.00	-8.35	35.84	3	Vertical	188	1.98	-	36.57	6.19	32.95

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

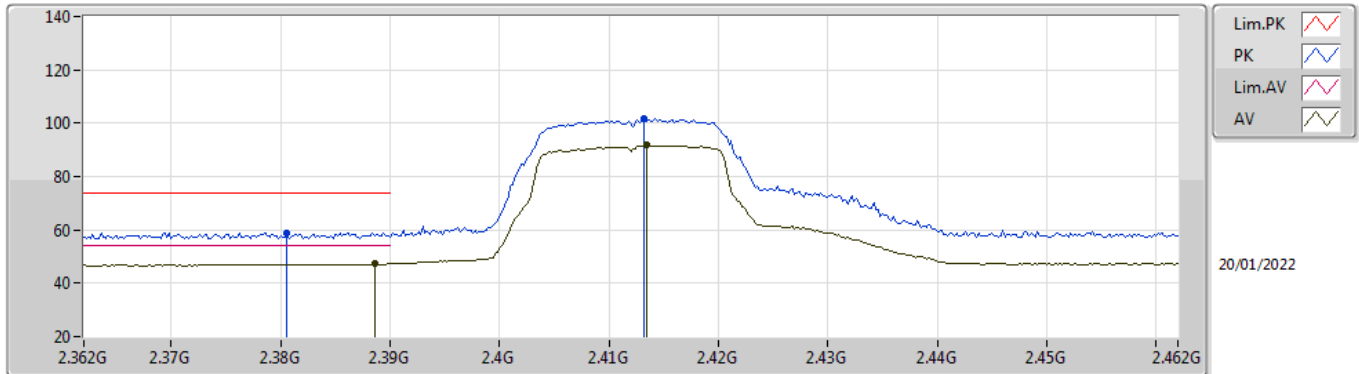


EUT Y_1TX
Setting 79
02-B-C-5

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	4.92394G	51.09	74.00	-22.91	45.04	3	Horizontal	157	1.72	-	33.14	5.10	32.19
AV	4.924G	47.13	54.00	-6.87	41.08	3	Horizontal	157	1.72	-	33.14	5.10	32.19
PK	7.38698G	55.50	74.00	-18.50	45.69	3	Horizontal	174	1.80	-	36.57	6.19	32.95
AV	7.38666G	47.31	54.00	-6.69	37.50	3	Horizontal	174	1.80	-	36.57	6.19	32.95

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

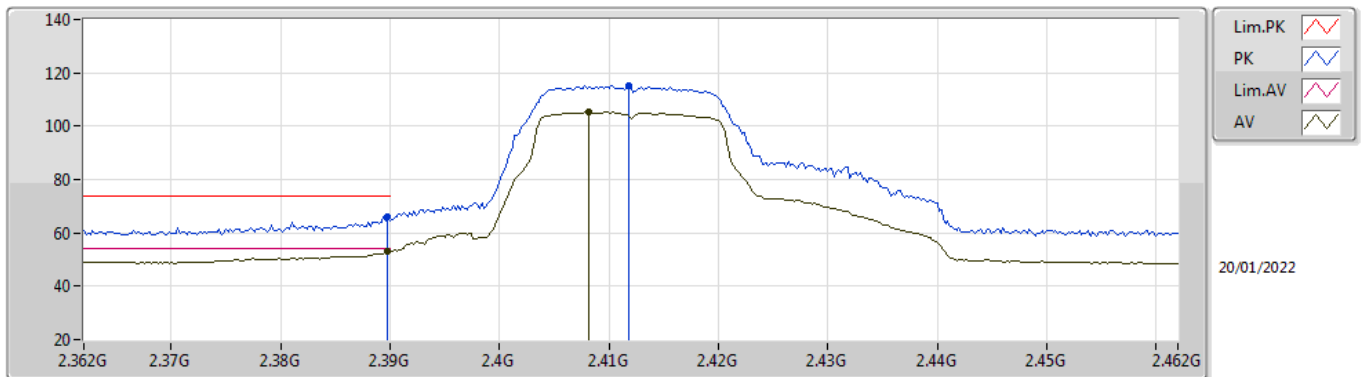


EUT Y_1TX
Setting 70
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3806G	58.97	74.00	-15.03	27.82	3	Vertical	172	1.88	-	28.36	2.79	-
AV	2.3886G	47.38	54.00	-6.62	16.21	3	Vertical	172	1.88	-	28.38	2.79	-
PK	2.4132G	101.93	Inf	-Inf	70.72	3	Vertical	172	1.88	-	28.40	2.81	-
AV	2.4134G	91.82	Inf	-Inf	60.61	3	Vertical	172	1.88	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

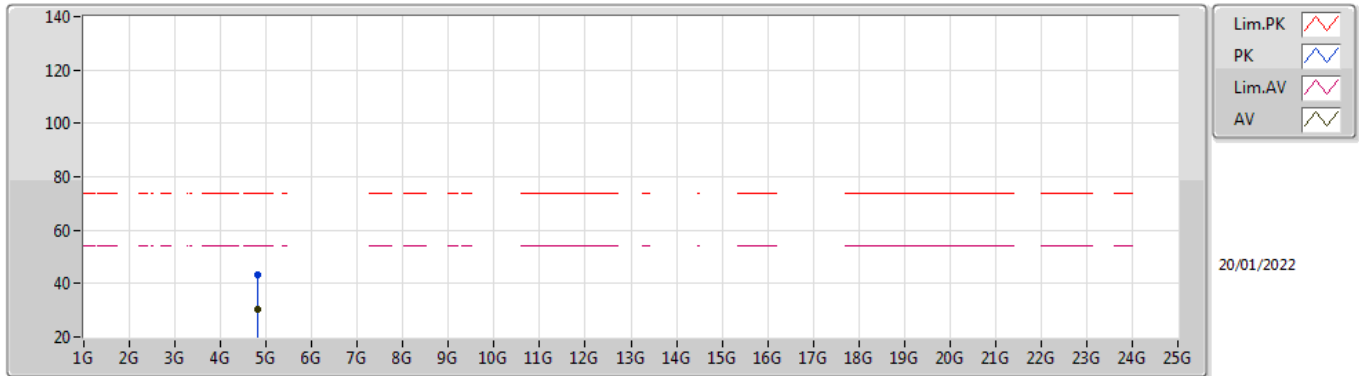


EUT Y_1TX
Setting 70
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.07	74.00	-7.93	34.90	3	Horizontal	179	1.89	-	28.38	2.79	-
AV	2.3898G	52.94	54.00	-1.06	21.77	3	Horizontal	179	1.89	-	28.38	2.79	-
PK	2.4118G	115.38	Inf	-Inf	84.17	3	Horizontal	179	1.89	-	28.40	2.81	-
AV	2.4082G	105.25	Inf	-Inf	74.04	3	Horizontal	179	1.89	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

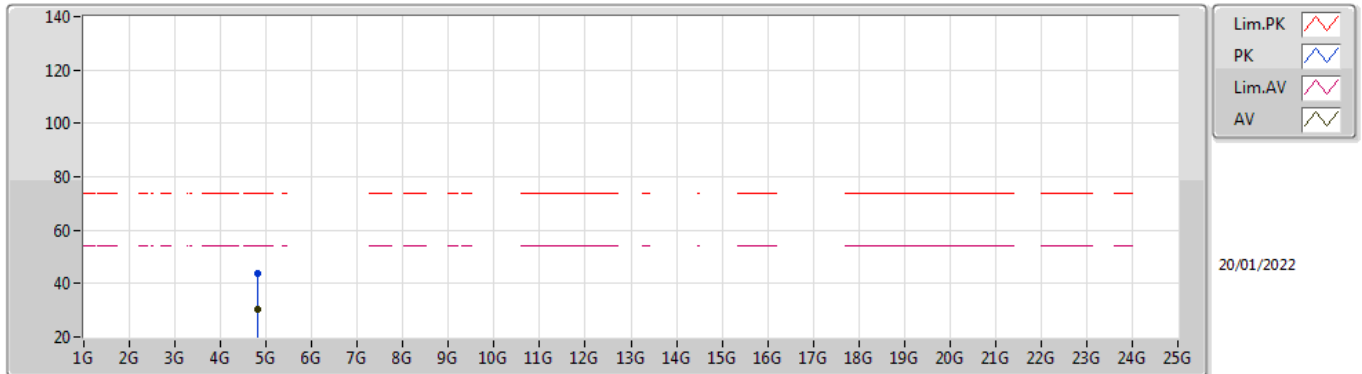


EUT Y_1TX
Setting 70
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82446G	43.49	74.00	-30.51	37.81	3	Vertical	179	2.07	-	32.80	5.10	32.22
AV	4.827G	30.15	54.00	-23.85	24.46	3	Vertical	179	2.07	-	32.81	5.10	32.22

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

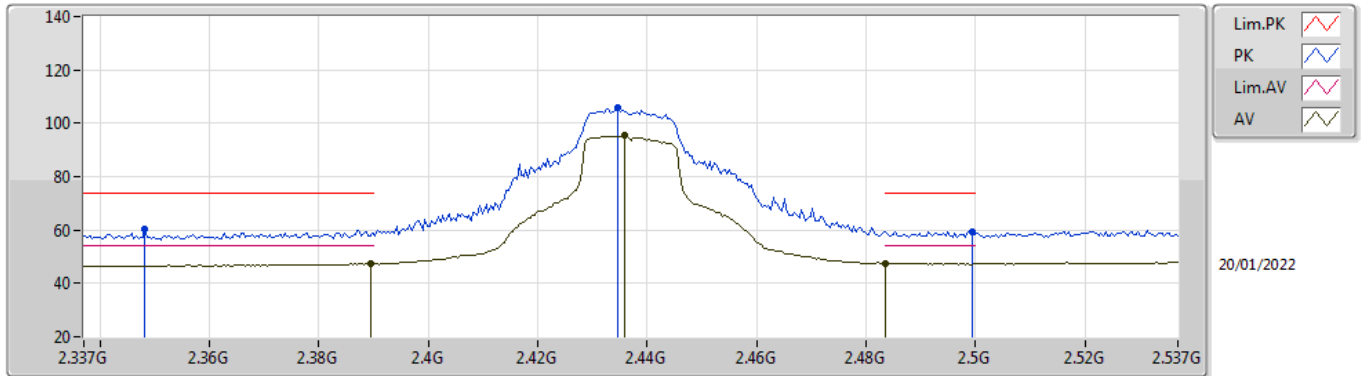


EUT Y_1TX
Setting 70
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82612G	43.71	74.00	-30.29	38.03	3	Horizontal	30	1.50	-	32.80	5.10	32.22
AV	4.8264G	30.30	54.00	-23.70	24.61	3	Horizontal	30	1.50	-	32.81	5.10	32.22

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

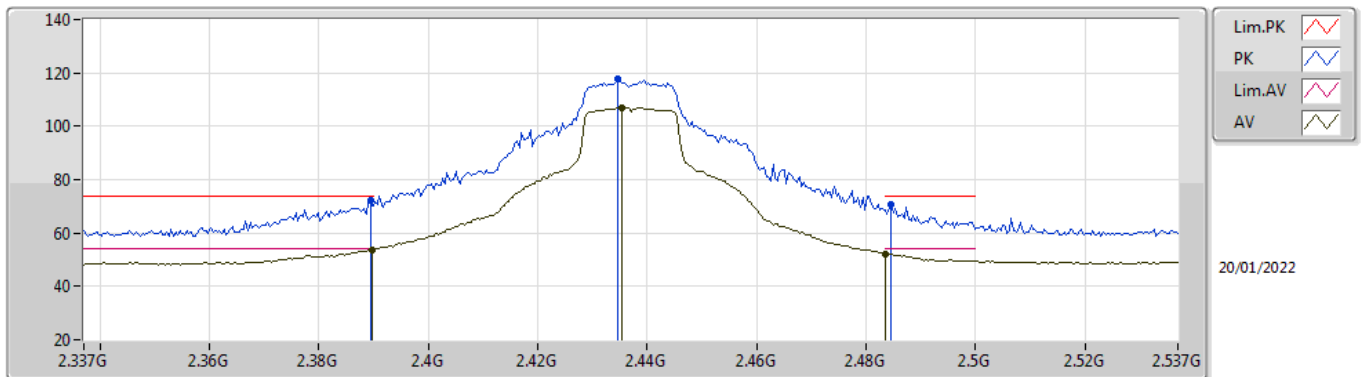


EUT_Y_1TX
Setting 80
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3482G	60.33	74.00	-13.67	29.27	3	Vertical	170	1.80	-	28.29	2.77	-
AV	2.3894G	47.32	54.00	-6.68	16.15	3	Vertical	170	1.80	-	28.38	2.79	-
PK	2.4346G	106.08	Inf	-Inf	74.85	3	Vertical	170	1.80	-	28.40	2.83	-
AV	2.4358G	95.29	Inf	-Inf	64.05	3	Vertical	170	1.80	-	28.40	2.84	-
PK	2.4994G	59.52	74.00	-14.48	28.02	3	Vertical	170	1.80	-	28.60	2.90	-
AV	2.4835G	47.56	54.00	-6.44	16.15	3	Vertical	170	1.80	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

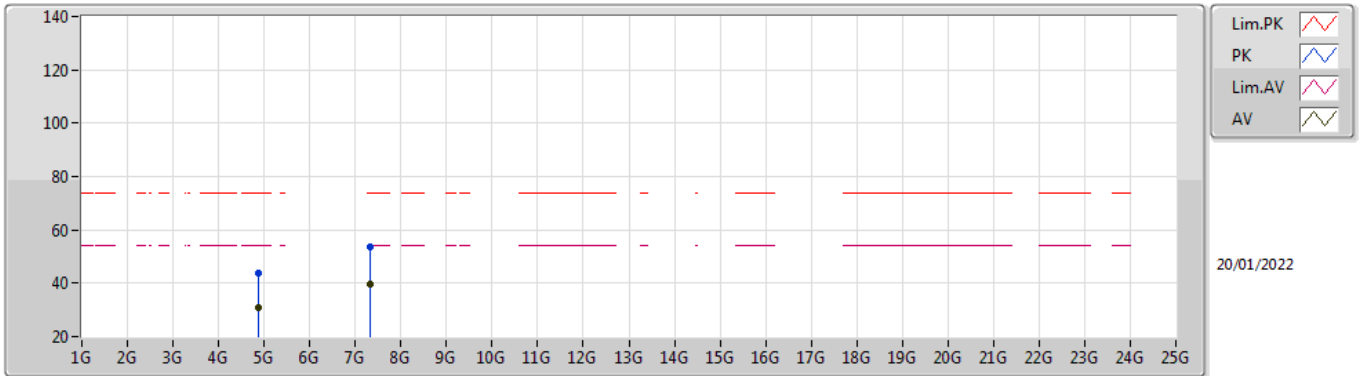


EUT_V_1TX
Setting 80
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	72.07	74.00	-1.93	40.90	3	Horizontal	191	1.83	-	28.38	2.79	-
AV	2.3898G	53.73	54.00	-0.27	22.56	3	Horizontal	191	1.83	-	28.38	2.79	-
PK	2.4346G	117.94	Inf	-Inf	86.71	3	Horizontal	191	1.83	-	28.40	2.83	-
AV	2.4354G	106.93	Inf	-Inf	75.69	3	Horizontal	191	1.83	-	28.40	2.84	-
PK	2.4846G	70.75	74.00	-3.25	39.33	3	Horizontal	191	1.83	-	28.54	2.88	-
AV	2.4835G	52.27	54.00	-1.73	20.86	3	Horizontal	191	1.83	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

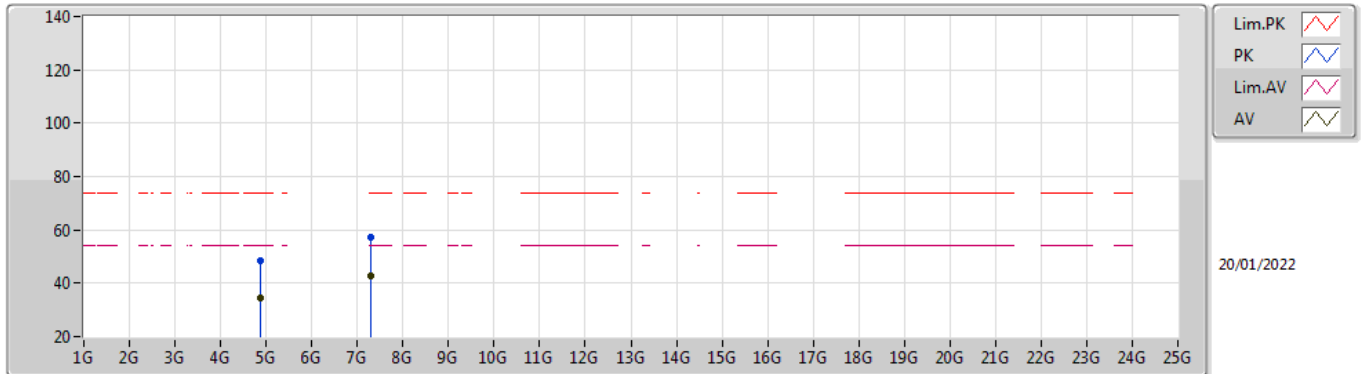


EUT Y_1TX
Setting 80
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88416G	43.78	74.00	-30.22	37.91	3	Vertical	201	1.80	-	32.97	5.10	32.20
AV	4.8744G	30.91	54.00	-23.09	25.07	3	Vertical	201	1.80	-	32.95	5.10	32.21
PK	7.31612G	53.46	74.00	-20.54	43.70	3	Vertical	173	1.79	-	36.43	6.16	32.83
AV	7.31964G	39.44	54.00	-14.56	29.68	3	Vertical	173	1.79	-	36.44	6.16	32.84

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

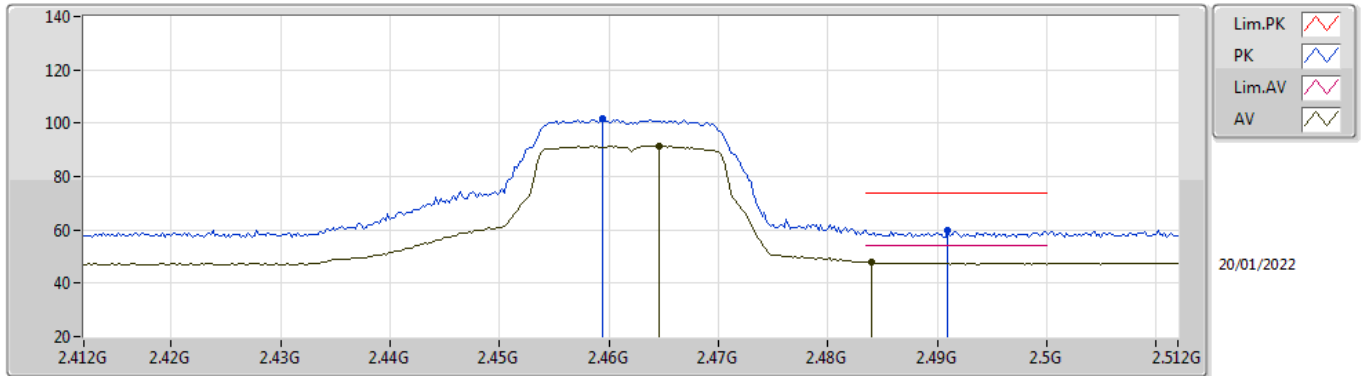


EUT Y_1TX
Setting 80
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86568G	48.35	74.00	-25.65	42.53	3	Horizontal	157	1.51	-	32.93	5.10	32.21
AV	4.87272G	34.69	54.00	-19.31	28.85	3	Horizontal	157	1.51	-	32.95	5.10	32.21
PK	7.30756G	57.12	74.00	-16.88	47.37	3	Horizontal	177	1.77	-	36.42	6.15	32.82
AV	7.30948G	42.55	54.00	-11.45	32.80	3	Horizontal	177	1.77	-	36.42	6.15	32.82

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

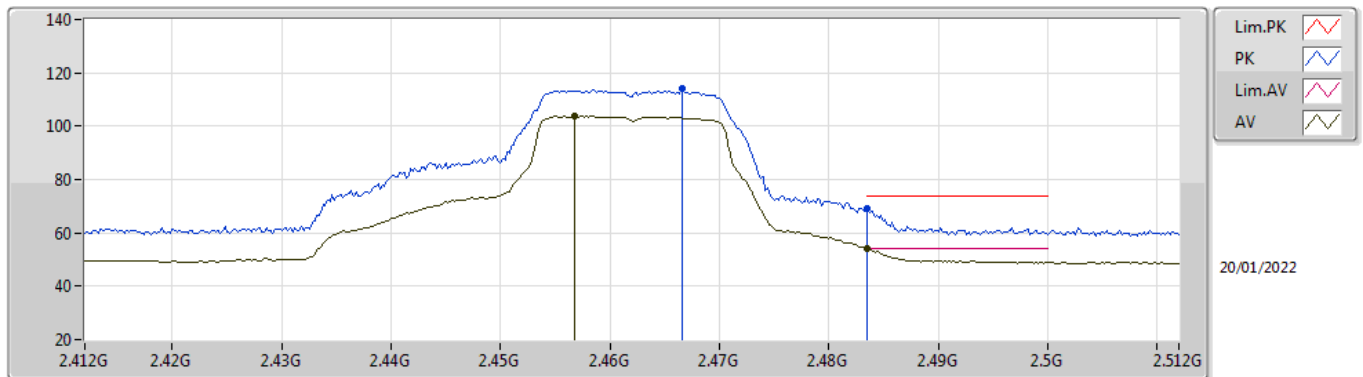


EUT Y_1TX
Setting 69
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4594G	101.54	Inf	-Inf	70.24	3	Vertical	141	2.02	-	28.44	2.86	-
AV	2.4646G	91.49	Inf	-Inf	60.17	3	Vertical	141	2.02	-	28.46	2.86	-
PK	2.491G	59.73	74.00	-14.27	28.28	3	Vertical	141	2.02	-	28.56	2.89	-
AV	2.484G	47.80	54.00	-6.20	16.38	3	Vertical	141	2.02	-	28.54	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

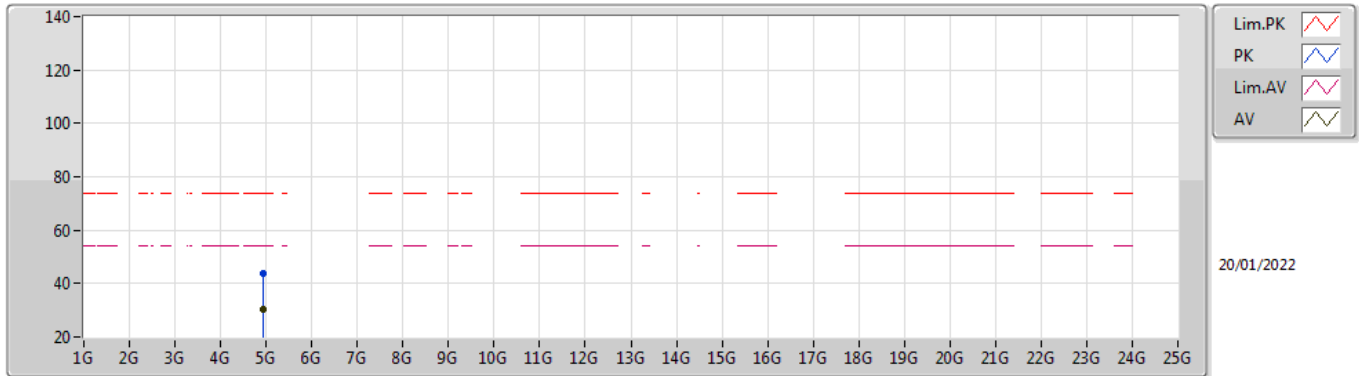


EUT Y_1TX
Setting 69
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4666G	114.07	Inf	-Inf	82.73	3	Horizontal	183	1.65	-	28.47	2.87	-
AV	2.4568G	103.84	Inf	-Inf	72.55	3	Horizontal	183	1.65	-	28.43	2.86	-
PK	2.4835G	69.05	74.00	-4.95	37.64	3	Horizontal	183	1.65	-	28.53	2.88	-
AV	2.4835G	53.99	54.00	-0.01	22.58	3	Horizontal	183	1.65	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

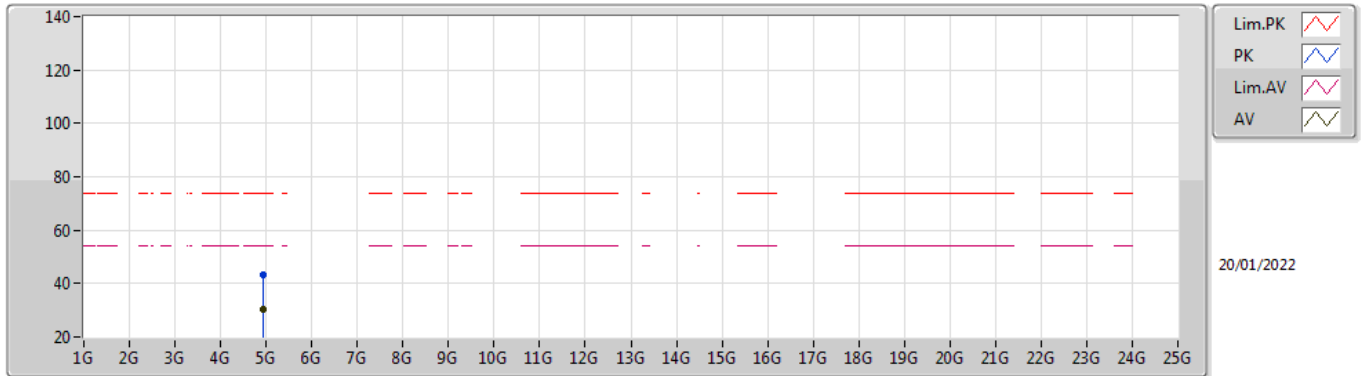


EUT Y_1TX
Setting 69
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92536G	43.62	74.00	-30.38	37.56	3	Vertical	102	2.75	-	33.15	5.10	32.19
AV	4.92382G	30.19	54.00	-23.81	24.14	3	Vertical	102	2.75	-	33.14	5.10	32.19

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

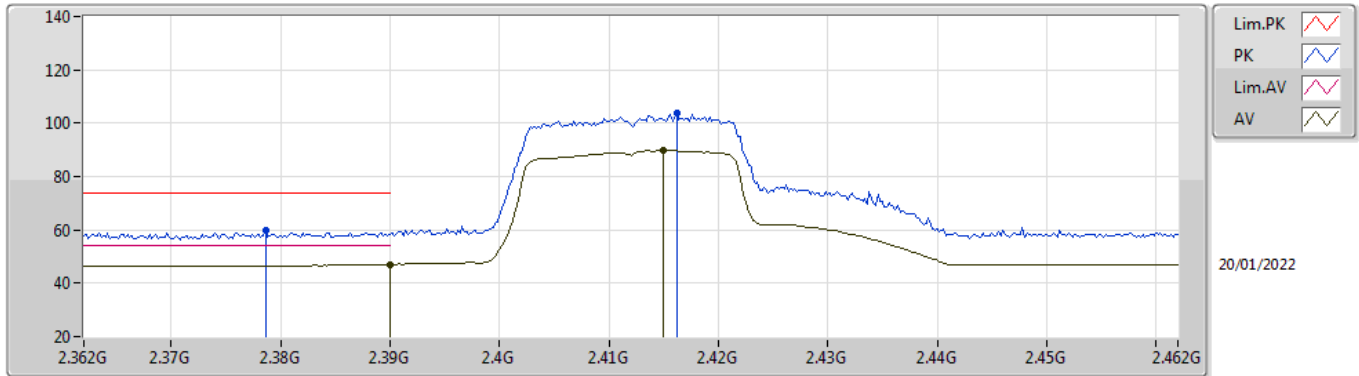


EUT Y_1TX
Setting 69
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9219G	43.50	74.00	-30.50	37.46	3	Horizontal	14	1.55	-	33.13	5.10	32.19
AV	4.92884G	30.27	54.00	-23.73	24.19	3	Horizontal	14	1.55	-	33.17	5.10	32.19

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

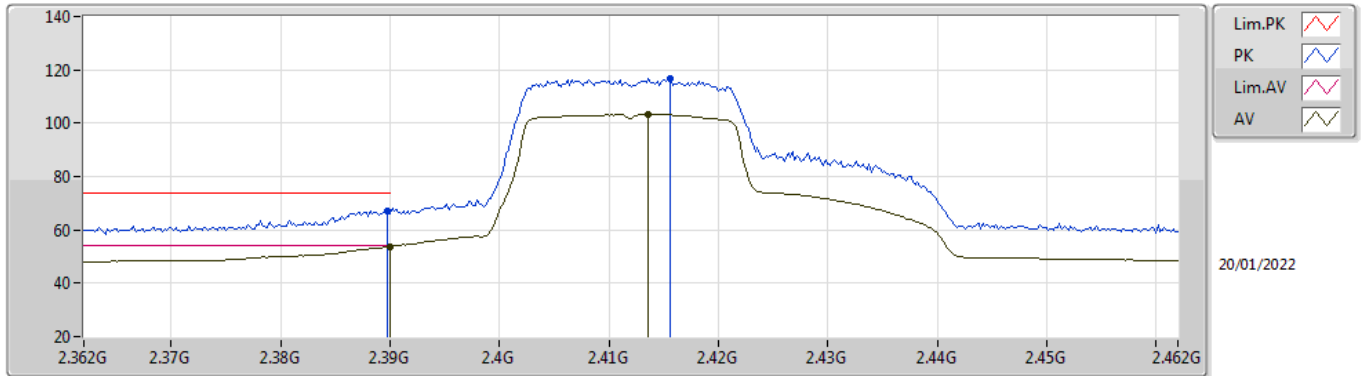


EUT Y_1TX
Setting 70
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3786G	59.66	74.00	-14.34	28.51	3	Vertical	173	1.91	-	28.36	2.79	-
AV	2.39G	47.14	54.00	-6.86	15.97	3	Vertical	173	1.91	-	28.38	2.79	-
PK	2.4162G	103.64	Inf	-Inf	72.42	3	Vertical	173	1.91	-	28.40	2.82	-
AV	2.415G	89.75	Inf	-Inf	58.54	3	Vertical	173	1.91	-	28.40	2.81	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

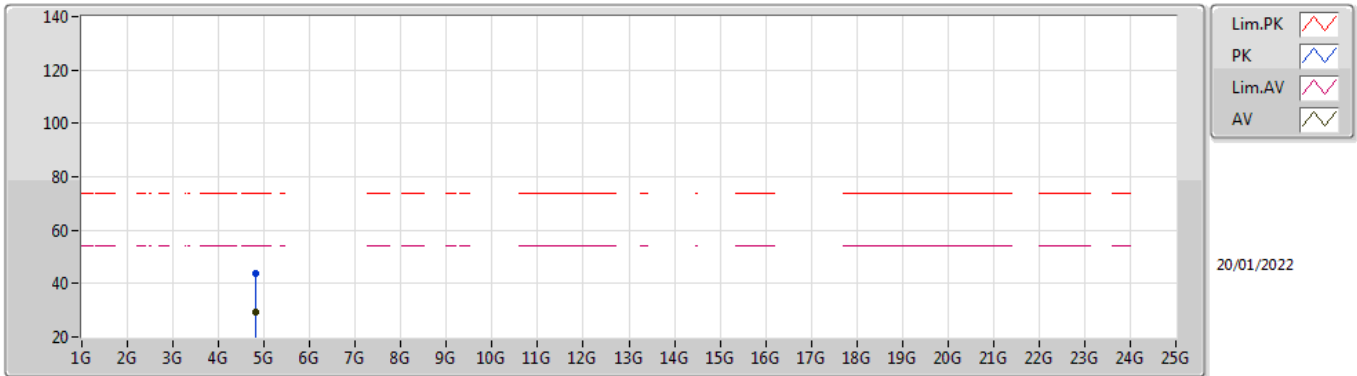


EUT Y_1TX
Setting 70
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.26	74.00	-6.74	36.09	3	Horizontal	184	1.67	-	28.38	2.79	-
AV	2.39G	53.63	54.00	-0.37	22.46	3	Horizontal	184	1.67	-	28.38	2.79	-
PK	2.4156G	116.66	Inf	-Inf	85.44	3	Horizontal	184	1.67	-	28.40	2.82	-
AV	2.4136G	103.27	Inf	-Inf	72.06	3	Horizontal	184	1.67	-	28.40	2.81	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

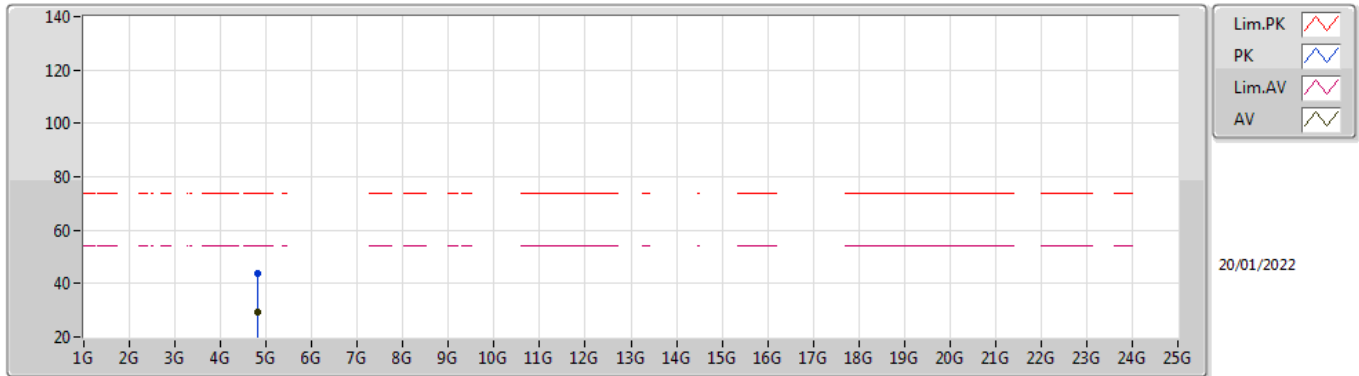


EUT Y_1TX
Setting 70
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.826866G	43.61	74.00	-30.39	37.92	3	Vertical	170	2.13	-	32.81	5.10	32.22
AV	4.82366G	29.56	54.00	-24.44	23.89	3	Vertical	170	2.13	-	32.79	5.10	32.22

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

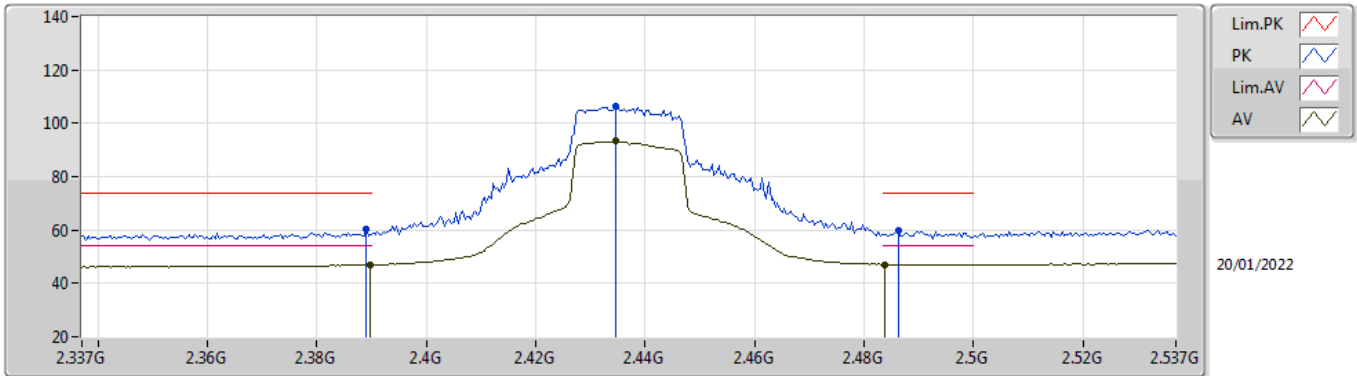


EUT Y_1TX
Setting 70
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82168G	43.79	74.00	-30.21	38.12	3	Horizontal	240	2.73	-	32.79	5.10	32.22
AV	4.82266G	29.52	54.00	-24.48	23.85	3	Horizontal	240	2.73	-	32.79	5.10	32.22

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

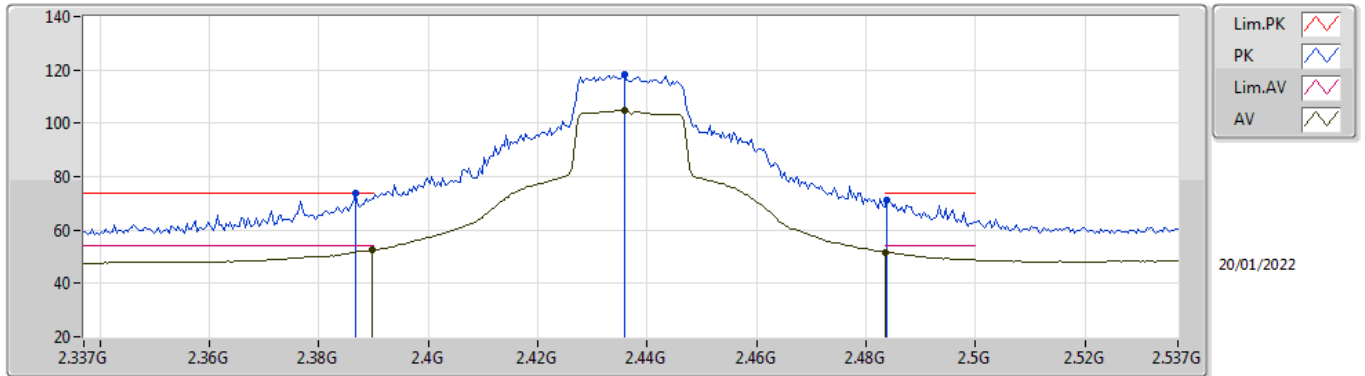


EUT Y_1TX
Setting 76
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	60.35	74.00	-13.65	29.18	3	Vertical	171	1.80	-	28.38	2.79	-
AV	2.3898G	46.97	54.00	-7.03	15.80	3	Vertical	171	1.80	-	28.38	2.79	-
PK	2.4346G	106.25	Inf	-Inf	75.02	3	Vertical	171	1.80	-	28.40	2.83	-
AV	2.4346G	93.28	Inf	-Inf	62.05	3	Vertical	171	1.80	-	28.40	2.83	-
PK	2.4862G	59.93	74.00	-14.07	28.50	3	Vertical	171	1.80	-	28.54	2.89	-
AV	2.4838G	47.12	54.00	-6.88	15.70	3	Vertical	171	1.80	-	28.54	2.88	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

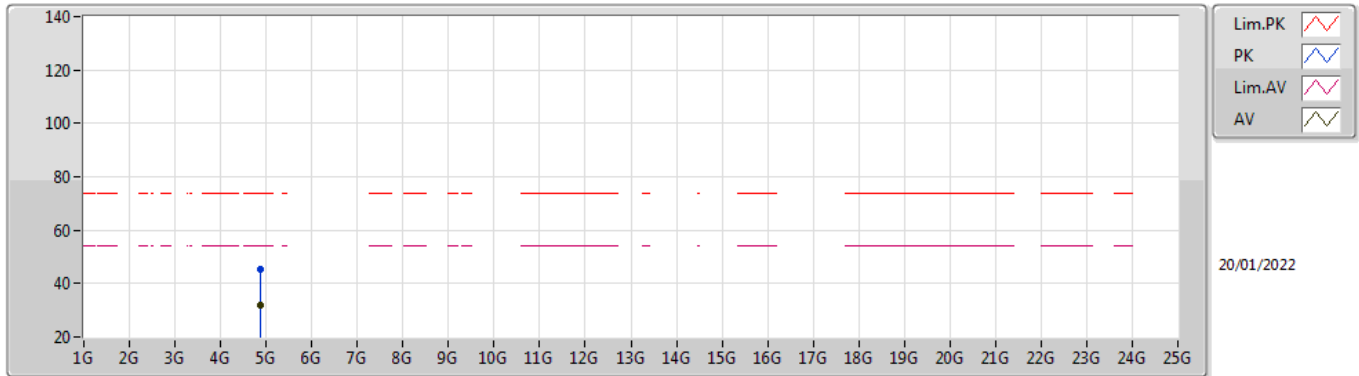


EUT_Y_1TX
Setting 76
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	73.95	74.00	-0.05	42.79	3	Horizontal	186	1.49	-	28.37	2.79	-
AV	2.3898G	52.45	54.00	-1.55	21.28	3	Horizontal	186	1.49	-	28.38	2.79	-
PK	2.4358G	118.51	Inf	-Inf	87.27	3	Horizontal	186	1.49	-	28.40	2.84	-
AV	2.4358G	104.64	Inf	-Inf	73.40	3	Horizontal	186	1.49	-	28.40	2.84	-
PK	2.4838G	71.19	74.00	-2.81	39.77	3	Horizontal	186	1.49	-	28.54	2.88	-
AV	2.4835G	51.68	54.00	-2.32	20.27	3	Horizontal	186	1.49	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

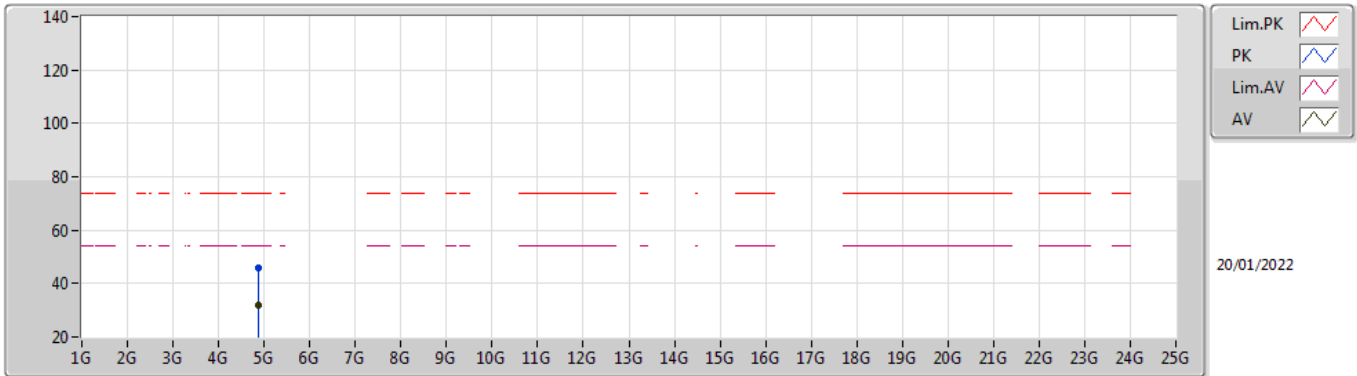


EUT Y_1TX
Setting 76
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8755G	45.36	74.00	-28.64	39.51	3	Vertical	340	1.52	-	32.95	5.10	32.20
AV	4.87338G	31.88	54.00	-22.12	26.04	3	Vertical	340	1.52	-	32.95	5.10	32.21

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

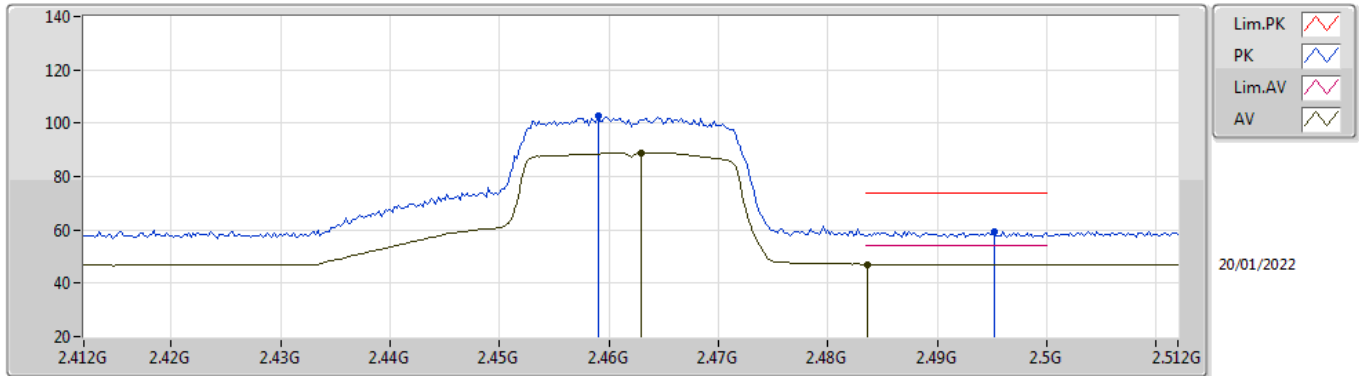


EUT Y_1TX
Setting 76
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87318G	45.74	74.00	-28.26	39.90	3	Horizontal	138	2.92	-	32.95	5.10	32.21
AV	4.87342G	31.89	54.00	-22.11	26.05	3	Horizontal	138	2.92	-	32.95	5.10	32.21

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

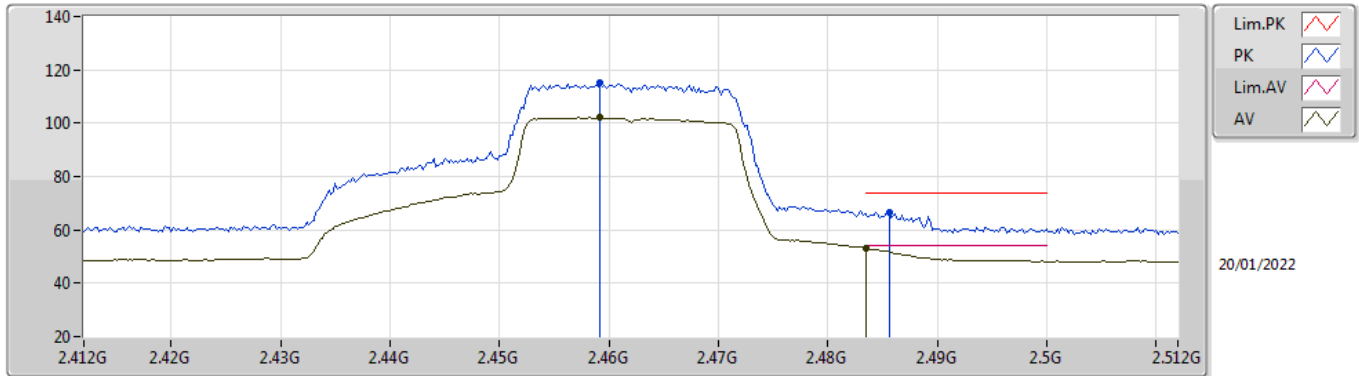


EUT Y_1TX
Setting 68
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.459G	102.72	Inf	-Inf	71.42	3	Vertical	144	1.88	-	28.44	2.86	-
AV	2.463G	88.90	Inf	-Inf	57.59	3	Vertical	144	1.88	-	28.45	2.86	-
PK	2.4952G	59.31	74.00	-14.69	27.83	3	Vertical	144	1.88	-	28.58	2.90	-
AV	2.4836G	47.12	54.00	-6.88	15.71	3	Vertical	144	1.88	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

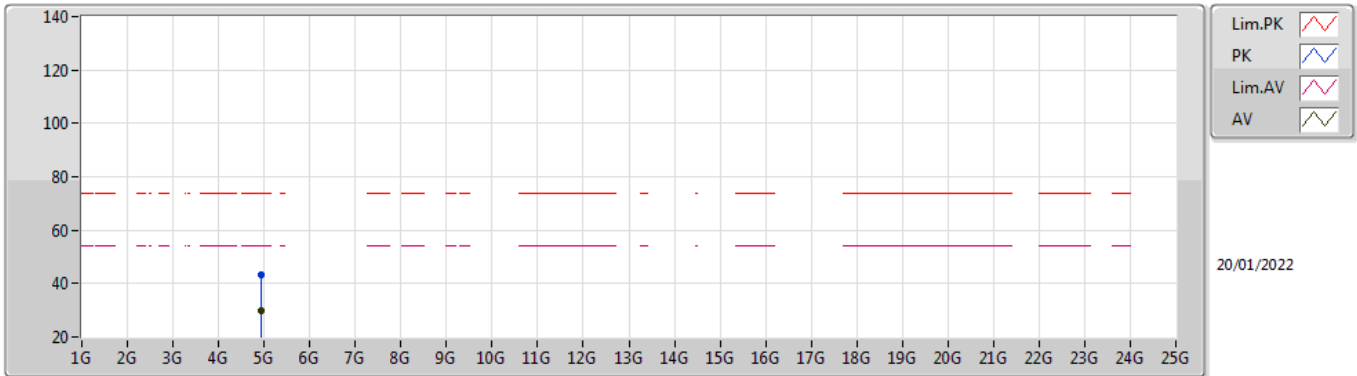


EUT Y_1TX
Setting 68
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4592G	114.98	Inf	-Inf	83.68	3	Horizontal	185	1.29	-	28.44	2.86	-
AV	2.4592G	102.09	Inf	-Inf	70.79	3	Horizontal	185	1.29	-	28.44	2.86	-
PK	2.4856G	66.51	74.00	-7.49	35.08	3	Horizontal	185	1.29	-	28.54	2.89	-
AV	2.4835G	53.13	54.00	-0.87	21.72	3	Horizontal	185	1.29	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

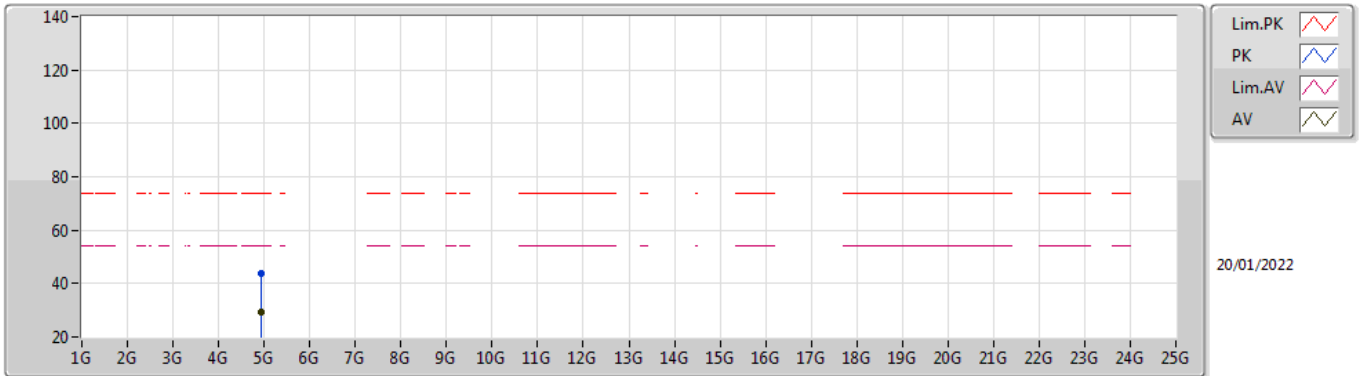


EUT Y_1TX
Setting 68
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92434G	43.53	74.00	-30.47	37.47	3	Vertical	186	2.02	-	33.15	5.10	32.19
AV	4.92672G	29.61	54.00	-24.39	23.54	3	Vertical	186	2.02	-	33.16	5.10	32.19

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

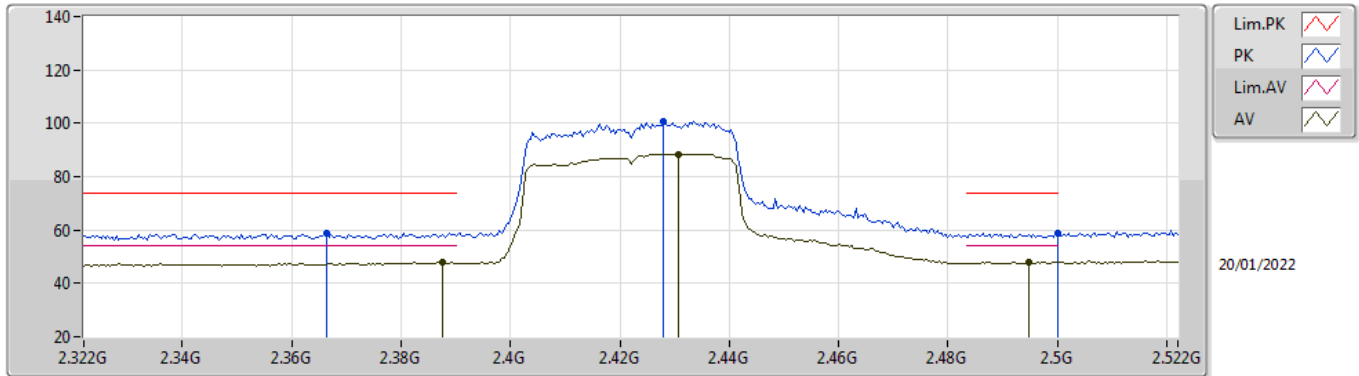


EUT Y_1TX
Setting 68
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92842G	43.69	74.00	-30.31	37.61	3	Horizontal	323	2.04	-	33.17	5.10	32.19
AV	4.92716G	29.50	54.00	-24.50	23.43	3	Horizontal	323	2.04	-	33.16	5.10	32.19

802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX

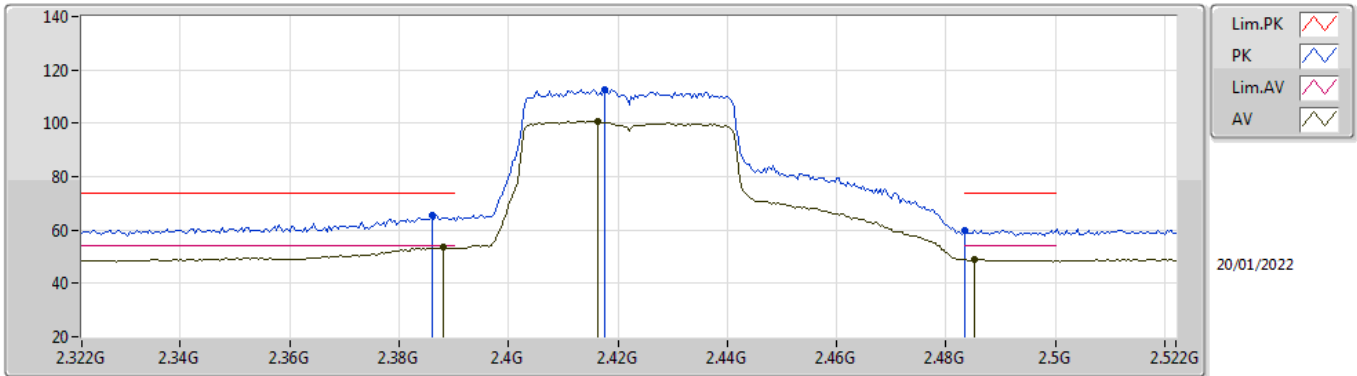


EUT_Y_1TX
Setting 66
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3664G	58.76	74.00	-15.24	27.65	3	Vertical	174	1.80	-	28.33	2.78	-
AV	2.3876G	47.94	54.00	-6.06	16.77	3	Vertical	174	1.80	-	28.38	2.79	-
PK	2.428G	100.78	Inf	-Inf	69.55	3	Vertical	174	1.80	-	28.40	2.83	-
AV	2.4308G	88.51	Inf	-Inf	57.28	3	Vertical	174	1.80	-	28.40	2.83	-
PK	2.5G	59.04	74.00	-14.96	27.54	3	Vertical	174	1.80	-	28.60	2.90	-
AV	2.4948G	47.81	54.00	-6.19	16.34	3	Vertical	174	1.80	-	28.58	2.89	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX

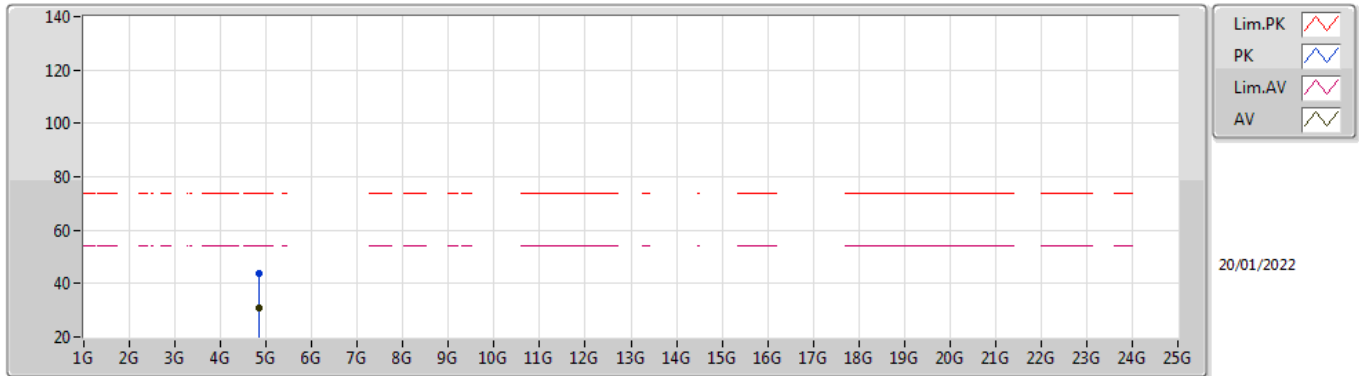


EUT Y_1TX
Setting 66
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.386G	65.52	74.00	-8.48	34.36	3	Horizontal	190	1.68	-	28.37	2.79	-
AV	2.388G	53.57	54.00	-0.43	22.40	3	Horizontal	190	1.68	-	28.38	2.79	-
PK	2.4176G	112.82	Inf	-Inf	81.60	3	Horizontal	190	1.68	-	28.40	2.82	-
AV	2.4164G	100.85	Inf	-Inf	69.63	3	Horizontal	190	1.68	-	28.40	2.82	-
PK	2.4835G	59.91	74.00	-14.09	28.50	3	Horizontal	190	1.68	-	28.53	2.88	-
AV	2.4852G	48.81	54.00	-5.19	17.38	3	Horizontal	190	1.68	-	28.54	2.89	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX

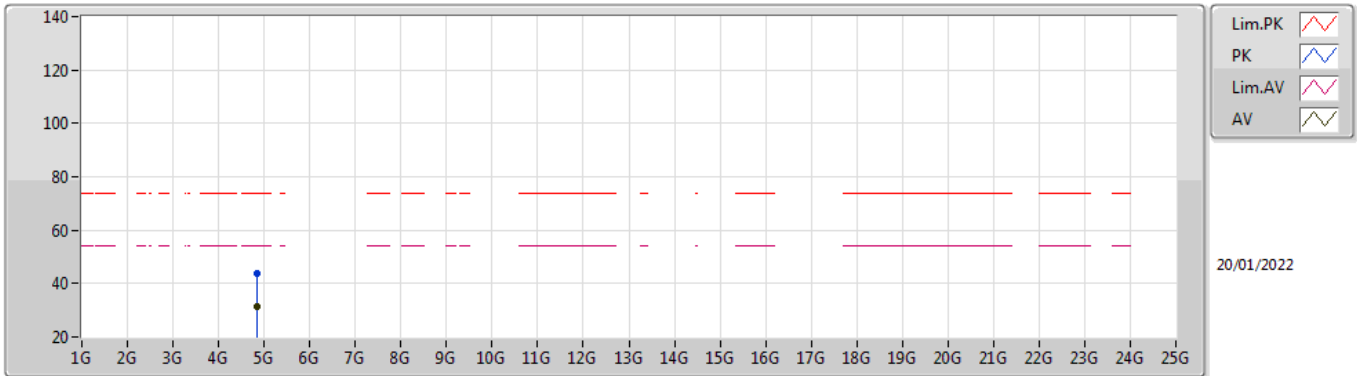


EUT Y_1TX
Setting 66
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84094G	43.70	74.00	-30.30	37.96	3	Vertical	239	2.37	-	32.86	5.10	32.22
AV	4.84368G	30.96	54.00	-23.04	25.21	3	Vertical	239	2.37	-	32.87	5.10	32.22

802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX

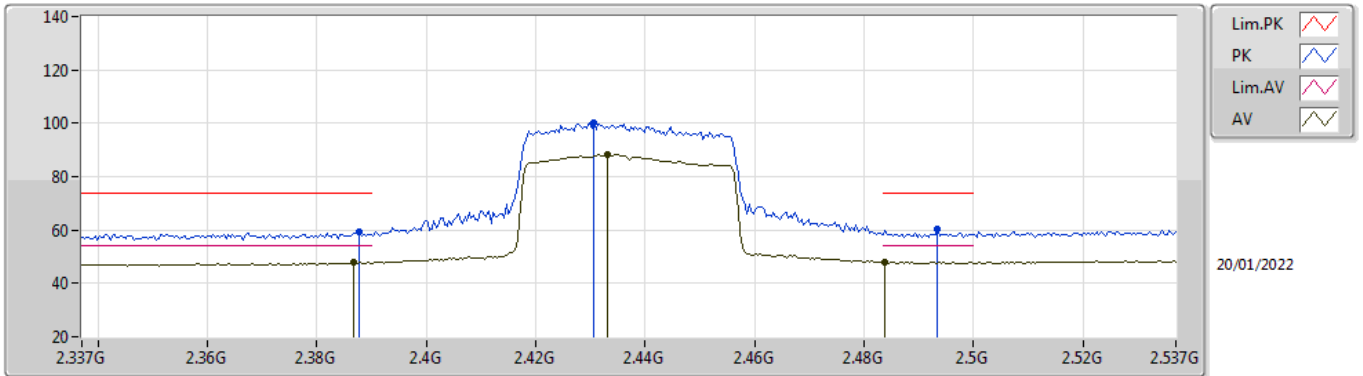


EUT Y_1TX
Setting 66
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84484G	43.59	74.00	-30.41	37.83	3	Horizontal	223	2.01	-	32.88	5.10	32.22
AV	4.83942G	31.14	54.00	-22.86	25.40	3	Horizontal	223	2.01	-	32.86	5.10	32.22

802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX

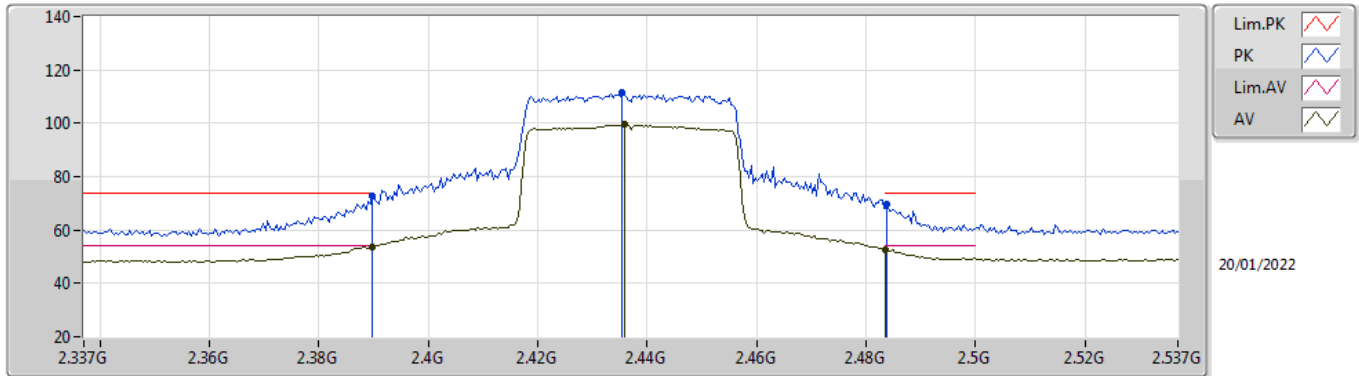


EUT_Y_1TX
Setting 61
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	59.19	74.00	-14.81	28.02	3	Vertical	172	1.80	-	28.38	2.79	-
AV	2.3866G	47.86	54.00	-6.14	16.70	3	Vertical	172	1.80	-	28.37	2.79	-
PK	2.4306G	100.28	Inf	-Inf	69.05	3	Vertical	172	1.80	-	28.40	2.83	-
AV	2.433G	88.19	Inf	-Inf	56.96	3	Vertical	172	1.80	-	28.40	2.83	-
PK	2.4934G	60.35	74.00	-13.65	28.89	3	Vertical	172	1.80	-	28.57	2.89	-
AV	2.4838G	47.95	54.00	-6.05	16.53	3	Vertical	172	1.80	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX

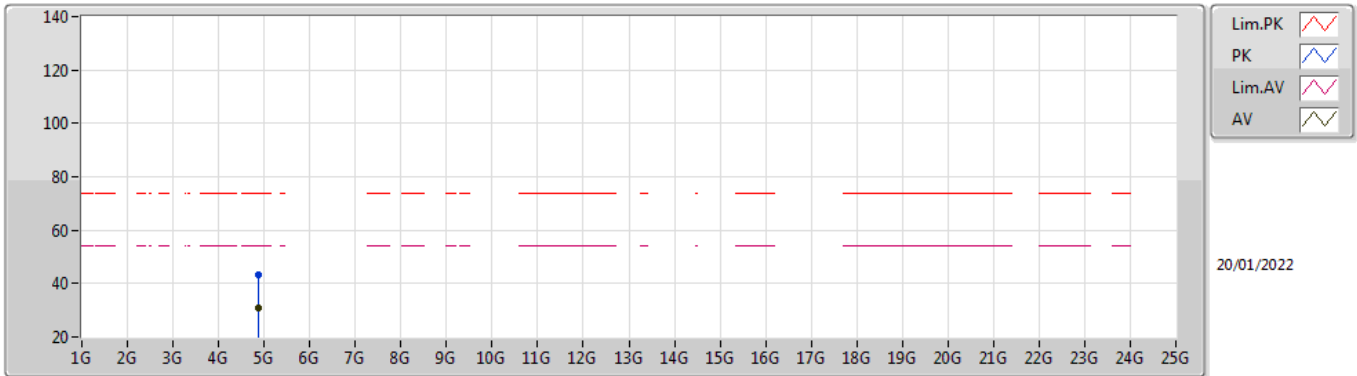


EUT_Y_1TX
Setting 61
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.61	74.00	-1.39	41.44	3	Horizontal	192	1.82	-	28.38	2.79	-
AV	2.3898G	53.86	54.00	-0.14	22.69	3	Horizontal	192	1.82	-	28.38	2.79	-
PK	2.4354G	111.38	Inf	-Inf	80.14	3	Horizontal	192	1.82	-	28.40	2.84	-
AV	2.4358G	99.53	Inf	-Inf	68.29	3	Horizontal	192	1.82	-	28.40	2.84	-
PK	2.4838G	69.56	74.00	-4.44	38.14	3	Horizontal	192	1.82	-	28.54	2.88	-
AV	2.4835G	52.72	54.00	-1.28	21.31	3	Horizontal	192	1.82	-	28.53	2.88	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX

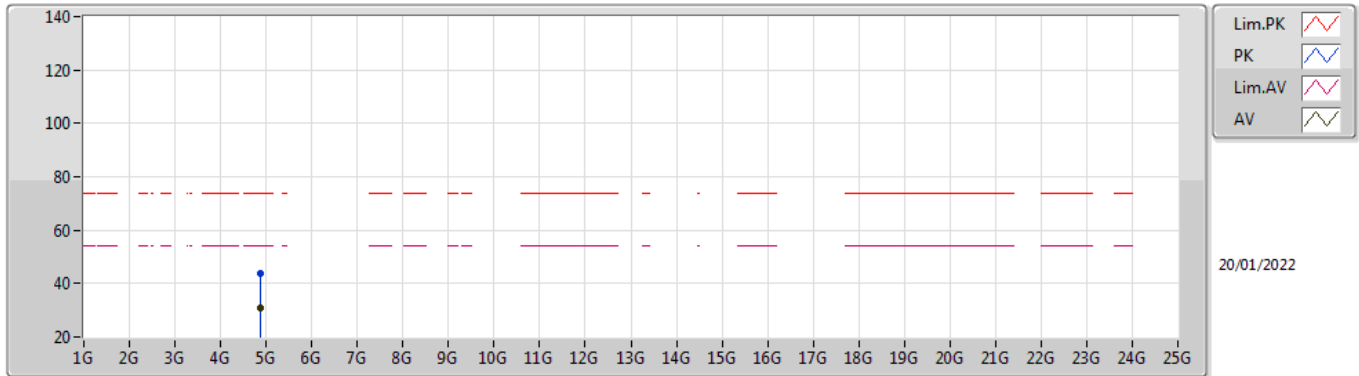


EUT Y_1TX
Setting 61
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87268G	43.46	74.00	-30.54	37.62	3	Vertical	117	2.11	-	32.95	5.10	32.21
AV	4.8737G	30.88	54.00	-23.12	25.04	3	Vertical	117	2.11	-	32.95	5.10	32.21

802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX

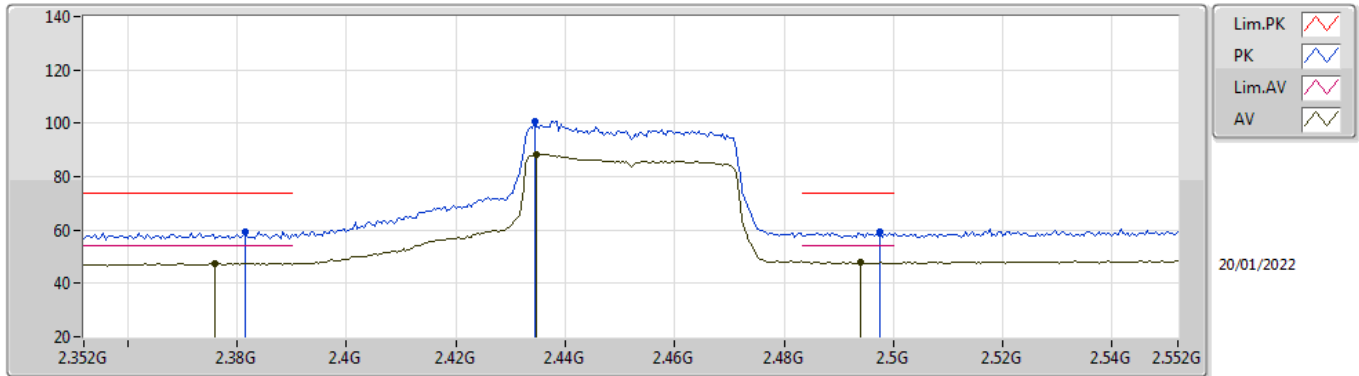


EUT Y_1TX
Setting 61
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87514G	43.76	74.00	-30.24	37.91	3	Horizontal	17	2.03	-	32.95	5.10	32.20
AV	4.87288G	30.96	54.00	-23.04	25.12	3	Horizontal	17	2.03	-	32.95	5.10	32.21

802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX

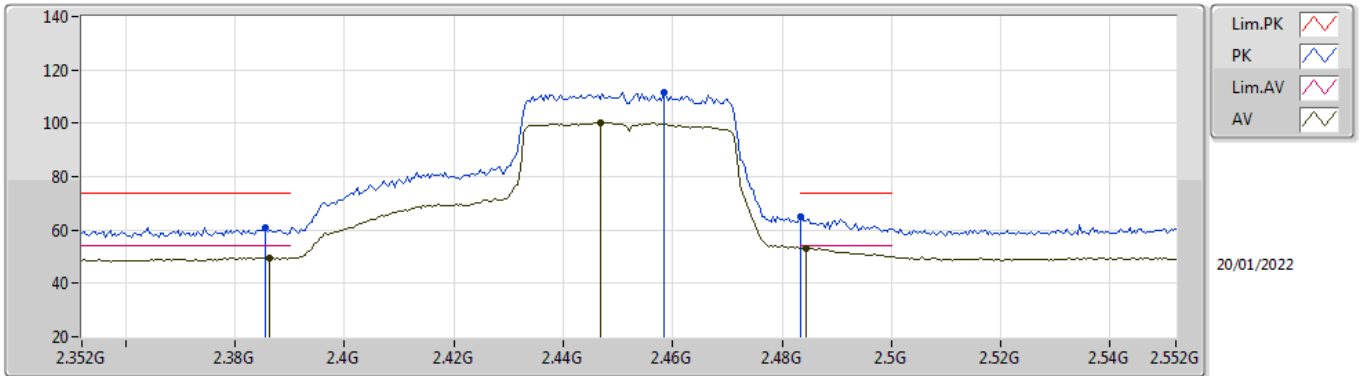


EUT Y_1TX
Setting 65
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3816G	59.21	74.00	-14.79	28.06	3	Vertical	172	1.80	-	28.36	2.79	-
AV	2.376G	47.57	54.00	-6.43	16.43	3	Vertical	172	1.80	-	28.35	2.79	-
PK	2.4344G	100.92	Inf	-Inf	69.69	3	Vertical	172	1.80	-	28.40	2.83	-
AV	2.4348G	88.15	Inf	-Inf	56.92	3	Vertical	172	1.80	-	28.40	2.83	-
PK	2.4976G	59.34	74.00	-14.66	27.85	3	Vertical	172	1.80	-	28.59	2.90	-
AV	2.494G	48.04	54.00	-5.96	16.57	3	Vertical	172	1.80	-	28.58	2.89	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX

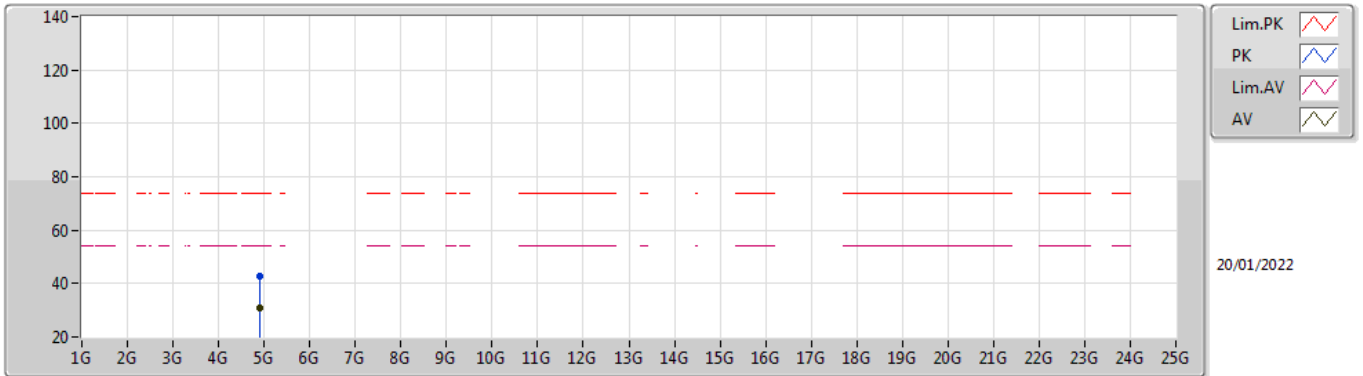


EUT_Y_1TX
Setting 65
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3856G	60.86	74.00	-13.14	29.70	3	Horizontal	185	1.66	-	28.37	2.79	-
AV	2.3864G	49.62	54.00	-4.38	18.46	3	Horizontal	185	1.66	-	28.37	2.79	-
PK	2.4584G	111.52	Inf	-Inf	80.23	3	Horizontal	185	1.66	-	28.43	2.86	-
AV	2.4468G	100.17	Inf	-Inf	68.92	3	Horizontal	185	1.66	-	28.40	2.85	-
PK	2.4835G	64.80	74.00	-9.20	33.39	3	Horizontal	185	1.66	-	28.53	2.88	-
AV	2.4844G	53.35	54.00	-0.65	21.93	3	Horizontal	185	1.66	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX

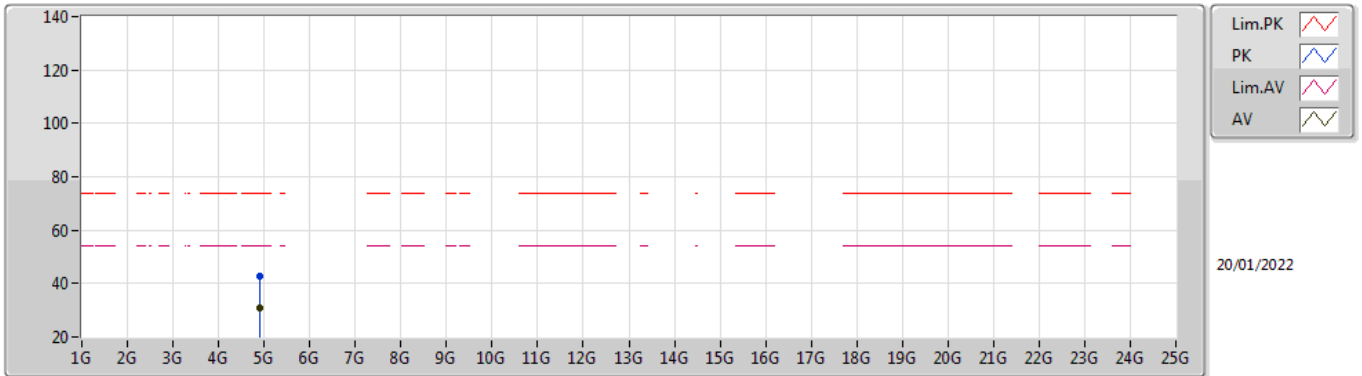


EUT Y_1TX
Setting 65
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90186G	42.94	74.00	-31.06	37.03	3	Vertical	80	2.64	-	33.01	5.10	32.20
AV	4.90656G	30.66	54.00	-23.34	24.71	3	Vertical	80	2.64	-	33.04	5.10	32.19

802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX



EUT Y_1TX
Setting 65
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90074G	42.75	74.00	-31.25	36.85	3	Horizontal	250	1.99	-	33.00	5.10	32.20
AV	4.90334G	30.79	54.00	-23.21	24.86	3	Horizontal	250	1.99	-	33.02	5.10	32.19