FCC Test Report

FCC ID	:	**UIDTG4482**
Equipment	:	**Wireless Gateway**
Brand Name	:	**ARRIS**
Model Name	:	**TG4482**
Applicant	:	**ARRIS** **3871 Lakefield Drive, Suite 300, Suwanee, GA 30024**
Manufacturer	:	**ARRIS** **3871 Lakefield Drive, Suite 300, Suwanee, GA 30024**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Oct. 14, 2019, and testing was started from Dec. 16, 2019 and completed on Mar. 06, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR992407AC	01	Initial issue of report	Apr. 01, 2020

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

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

Reviewed by: Sam Tsai

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number	Max Output Power (dBm)
2400-2483.5	b, g, n (HT20), VHT20, ax(HEW20)	2412-2462	1-11 [11]	29.96
2400-2483.5	n (HT40), VHT40, ax(HEW40)	2422-2452	3-9 [7]	

Non-Beamforming (1T1S)

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX(Port 4)

Non-Beamforming (4T4S)

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX

Beamforming (4T1S)

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11ax HEW20-BF	20	4TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	4TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.
- The resource unit of HEW 20, HEW 40 only support full loading.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	1	Airgain	N03CPAEN	PIFA	I-PEX
2	2	Airgain	N03CPAEH	PIFA	I-PEX
3	3	Airgain	N03CPAEK	PIFA	I-PEX
4	4	Airgain	N03CPAEJ	PIFA	I-PEX

Frequency (MHz)	BW (MHz)	2.4G Directional Gain (dBi)	
		1TX 1Stream / 4TX 1Stream (Correlated)	4TX 4Streams (Uncorrelated)
2412	20	5.3	1.1
2417	20	5.3	1.1
2437	20	5.5	1.4
2457	20	5.4	1.6
2462	20	5.4	1.6
2422	40	5.3	1.1
2427	40	5.3	1.1
2437	40	5.5	1.4
2447	40	5.4	1.6
2452	40	5.4	1.6

Note. The composite gain was used during the test.

For 2.4GHz function:

For IEEE 802.11 b mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 4(port 4) and it was recorded in this test report.

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

Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3) and Ant. 4 (port 4) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Beamforming Function	☒	With beamforming	☐	Without beamforming

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Non-Beamforming (1T1S)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b_Nss1,(1Mbps)_1TX(Port4)	0.999	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Non-Beamforming (4T4S)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Beamforming (4T1S)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF	0.903	0.44	5.339m	300
802.11ax HEW40-BF	0.953	0.21	5.38m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- KDB 558074 D01 v05r02
- KDB 662911 D01 v02r01
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	19.9~20.4°C / 60~65%	25/Feb/2020
RF Conducted	TH06-HY	Raven	22.4~25.1°C / 61~69%	17/Dec/2019~ 06/Mar/2020
Radiated	03CH03-HY	Patrick	21.5~26.5°C / 51~58%	16/Dec/2019~ 06/Mar/2020

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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software	Dos

Non-Beamforming (1T1S)

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX(Port4)	-
2412MHz	26
2437MHz	27
2462MHz	27

Non-Beamforming (4T4S)

Mode	Power Setting
802.11ax HEW20_Nss4,(MCS0)_4TX	-
2412MHz	21.5
2417MHz	23.5
2437MHz	23.5
2457MHz	23.5
2462MHz	23.5
802.11ax HEW40_Nss4,(MCS0)_4TX	-
2422MHz	21
2427MHz	23.5
2437MHz	23.5
2447MHz	22.5
2452MHz	22

Beamforming (4T1S)

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	57
2437MHz	58
2457MHz	59
2462MHz	57
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	55
2437MHz	60
2447MHz	57
2452MHz	56

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Adapter mode

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	Adapter mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	**Y Plane**

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz +WLAN 5GHz
Refer to Sporton Test Report No.: FA992407 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.4 Accessories

Accessories				
AC Adapter	**Brand Name**	ARRIS	**Model Name**	NBC56A120460VU
	Power Rating	I/P: 100-240Vac, 1.5A, O/P: 12Vdc, 4.6A		
	Power Cord	1.85 meter, non-shielded cable, w/o ferrite core		

Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

Support Equipment – AC Conduction (Beamforming)					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	P73G	-	Remote
2	Adapter for Notebook	DELL	LA65NM130	-	Remote

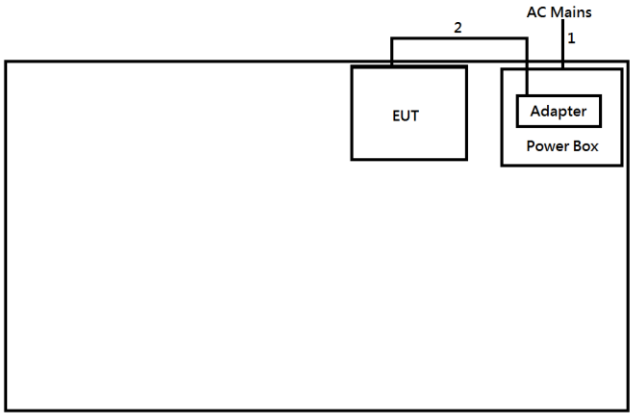
Support Equipment – Conducted (Non-Beamforming)					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	DoC	-
2	Adapter for Notebook	DELL	HA65NM130	DoC	-

Support Equipment – Conducted (Beamforming)					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	P73G	-	-
2	Adapter for Notebook	DELL	LA65NM130	DoC	-

Support Equipment – Radiated (Beamforming)					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	P73G	-	Remote
2	Adapter for Notebook	DELL	LA65NM130	-	Remote

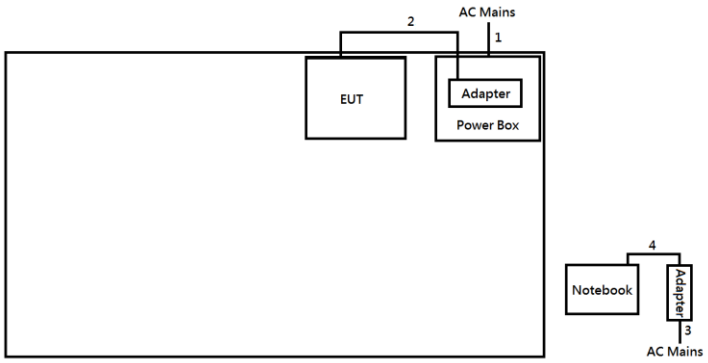
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (Non-Beamforming)



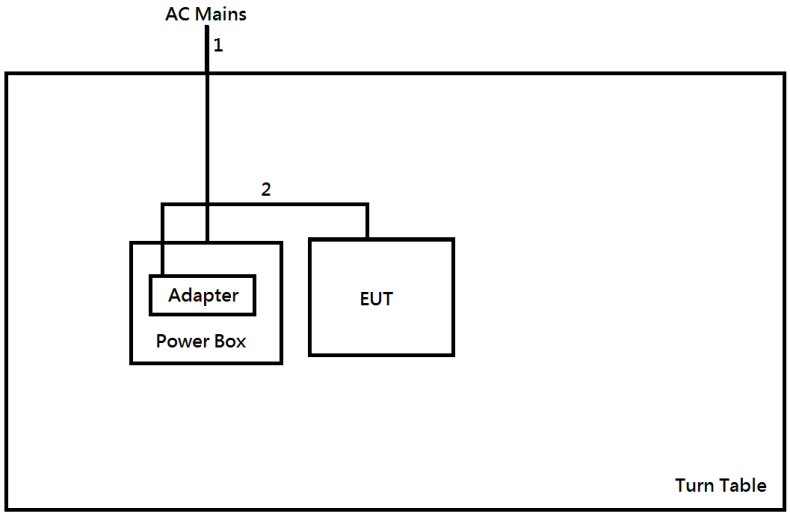
Item	Connection	Shielded	Length
1	AC Power cable	No	1.5m
2	DC Power cable	No	1.85m

Test Setup Diagram – AC Line Conducted Emission Test (Beamforming)



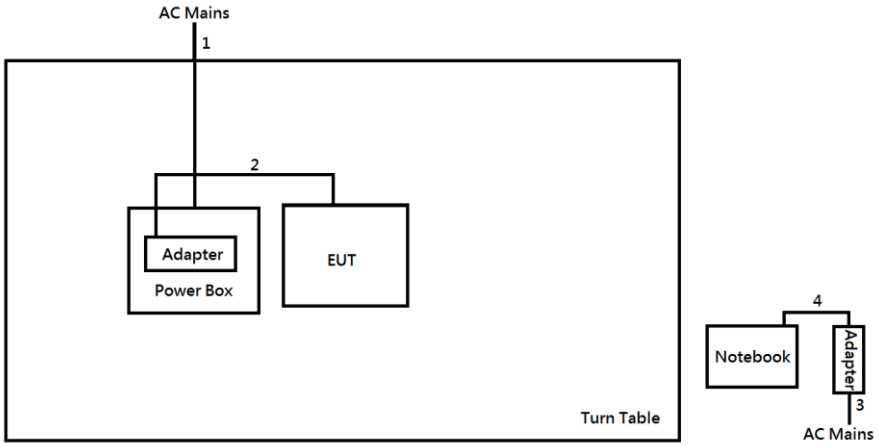
Item	Connection	Shielded	Length
1	AC Power cable	No	1.5m
2	DC Power cable	No	1.85m
3	AC Power cable	No	1.8m
4	DC Power cable	No	1.5m

Test Setup Diagram - Radiated Test (Non-Beamforming)



Item	Connection	Shielded	Length
1	AC Power cable	No	1.5m
2	DC Power cable	No	1.85m

Test Setup Diagram - Radiated Test (Beamforming)



Item	Connection	Shielded	Length
1	AC Power cable	No	1.5m
2	DC Power cable	No	1.85m
3	AC Power cable	No	1.8m
4	DC Power cable	No	1.5m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

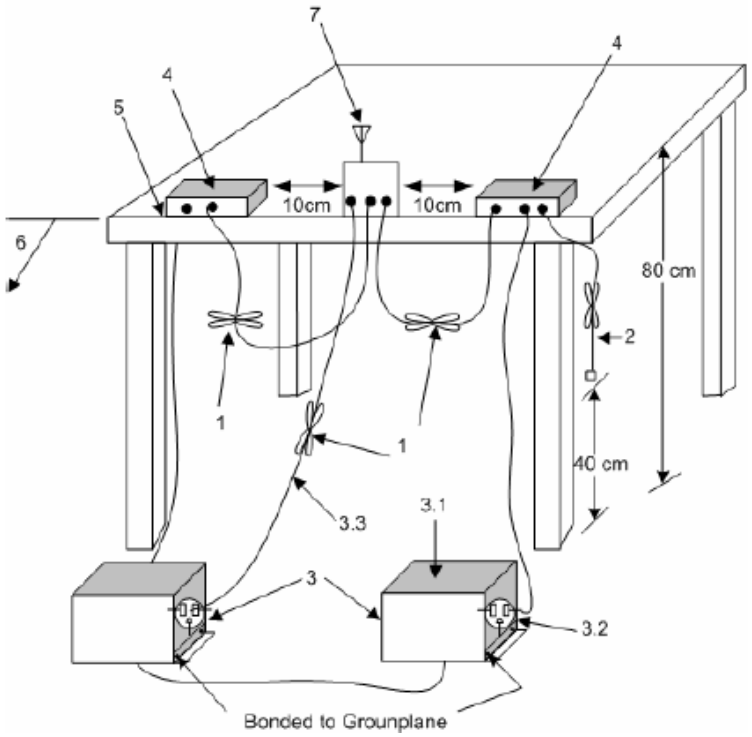
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ωloads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

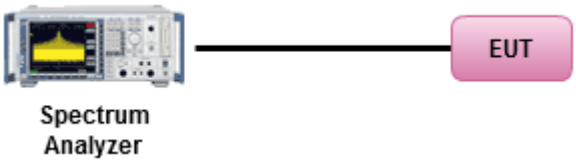
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
	☐ Refer as RSS-Gen, clause 6.7 for for occupied bandwidth testing.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit		
	▪ If G_{TX} ≤ 6 dBi, then P_{Out} ≤ 30 dBm (1 W)	
	▪ Point-to-multipoint systems (P2M): If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6) dBm	
	▪ Point-to-point systems (P2P): If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm	
	▪ Smart antenna system (SAS):	
		- Single beam: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm
		- Overlap beam: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm
		- Aggregate power on all beams: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 + 8dB dBm
e.i.r.p. Power Limit:		
▪ 2400-2483.5 MHz Band		
	▪ Point-to-multipoint systems (P2M): P_{eirp} ≤ 36 dBm (4 W)	
	▪ Point-to-point systems (P2P): P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX}]) dBm	
	▪ Smart antenna system (SAS)	
		- Single beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm
		- Overlap beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm
		- Aggregate power on all beams: P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX} + 8]) dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.		

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	☐ Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
	☐ Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
▪ Maximum Average Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	☒ Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

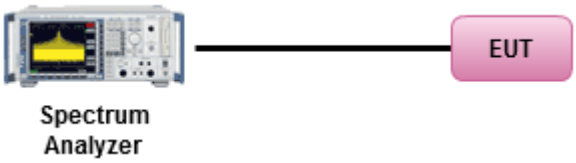
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		▪ Measure and sum the spectra across the outputs. Refer as 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.

3.4.4 Test Setup

Power Spectral Density


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 (dB)**
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 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 level.	

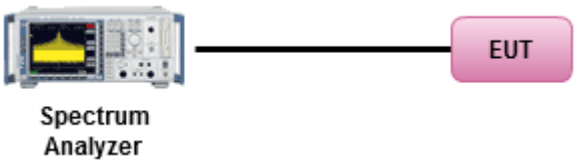
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

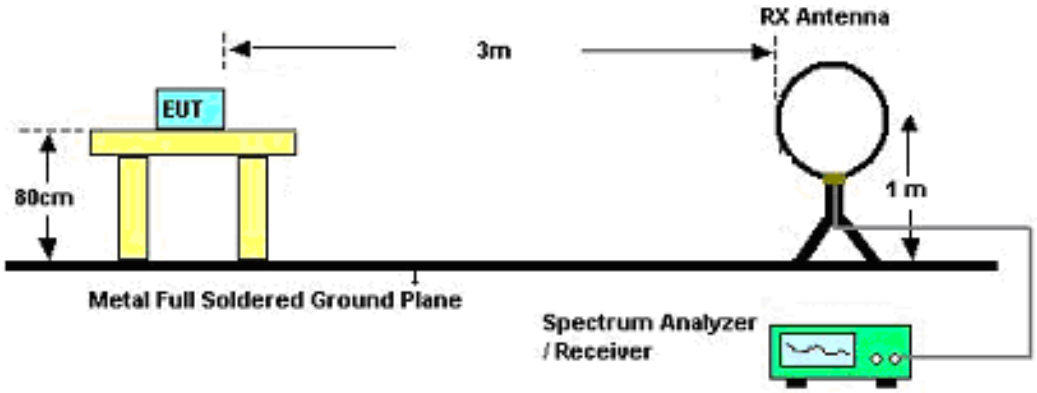
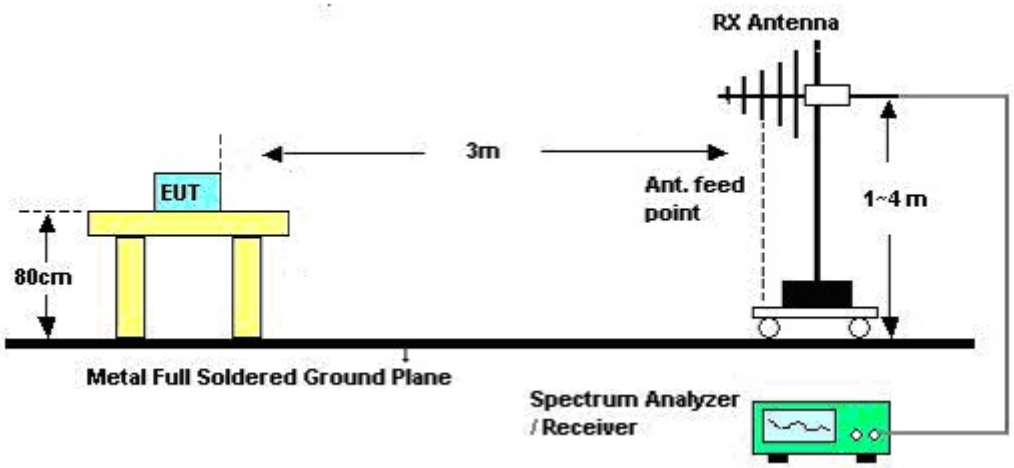
3.6.2 Measuring Instruments

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

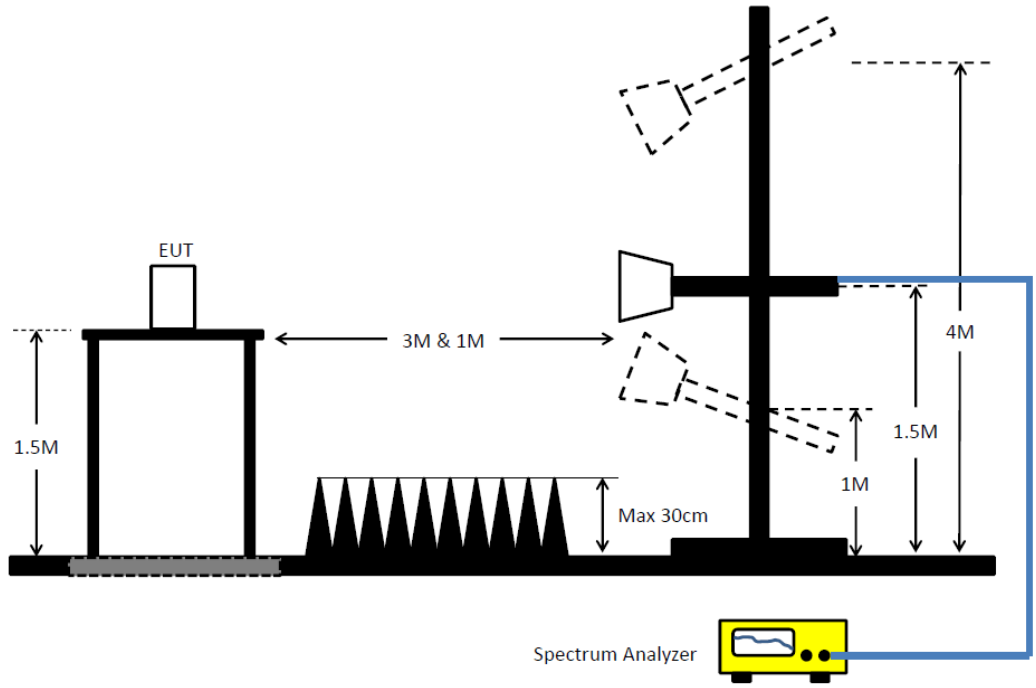
3.6.3 Test Procedures

Test Method	
▪	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
▪	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted emissions shall be measured using following options below:
	▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪	For the transmitter band-edge emissions shall be measured using following options below:
	▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
▪	Use the following spectrum analyzer settings:
	▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	▪ Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.6.4 Test Setup

Emissions in Restricted Frequency Bands
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.6.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	04/Nov/2019	05/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	12/Sep/2019	11/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	24/Sep/2019	23/Sep/2020

NCR: Non-Calibration Require

Instrument for Conducted Test

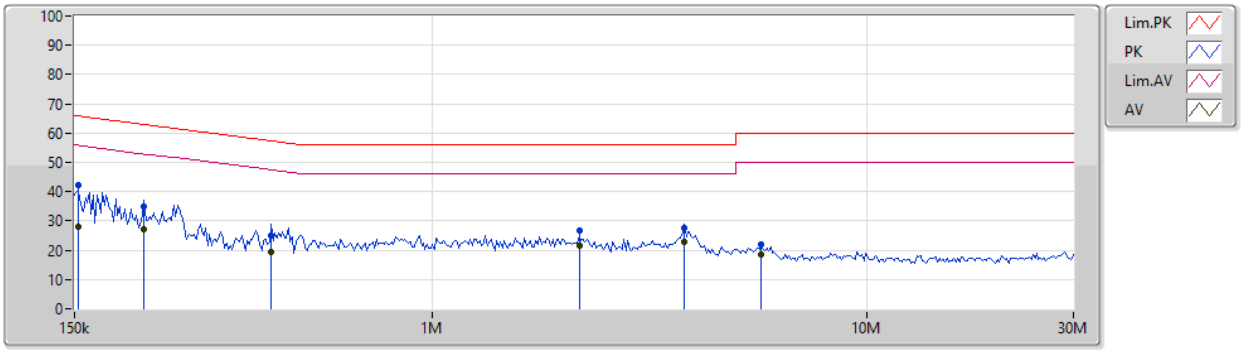
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10kHz ~ 40GHz	01/Oct/2019	30/Sep/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
CABLE 0.2m	HUBER	329022/4	RF Cable - 02	30 to 1000MHz 1 to 18GHz	02/Apr/2019	01/Apr/2020
CABLE 0.2m	HUBER	329013/3	RF Cable - 18	30 to 1000MHz 1 to 18GHz	02/Apr/2019	01/Apr/2020
CABLE 0.5m	HUBER	MY39476/4	RF Cable - 47	30 to 1000MHz 1 to 18GHz	02/Apr/2019	01/Apr/2020

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	30/Aug/2019	29/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	30/Aug/2019	29/Aug/2020
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112D / MTJ6102-05	2678 / 001	30MHz ~ 1GHz	06/Jul/2019	05/Jul/2020
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	09/Sep/2019	08/Sep/2020
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Nov/2019	07/Nov/2020
Signal Analyzer	R&S	FSP40	100305	9 kHz ~ 40 GHz	10/Jun/2019	09/Jun/2020
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	22/Mar/2019	21/Mar/2020
RF CABLE 6m	HUBER+SUHNER	SUOFLEX 104	SN 805801/4	1GHz ~ 40GHz	21/Mar/2019	20/Mar/2020
RF CABLE	HUBER+SUHNER	SUOFLEX 104	802378/4	1 GHz ~ 18 GHz	04/Jul/2019	03/Jul/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	09/Mar/2019	08/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Adapter mode		

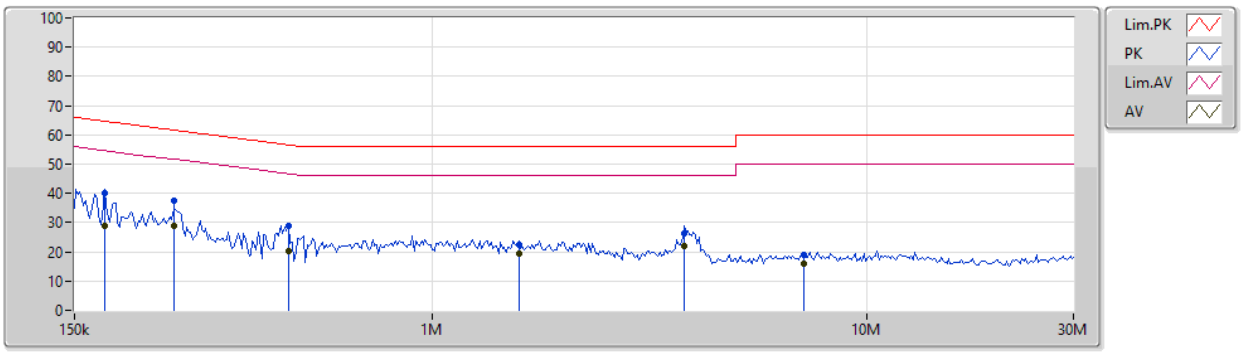
25/02/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	153.015k	42.14	65.83	-23.69	19.63	Neutral	-	22.51	9.65	0.11	9.87
AV	153.015k	27.96	55.83	-27.87	19.63	Neutral	-	8.33	9.65	0.11	9.87
QP	216.761k	34.98	62.94	-27.96	19.62	Neutral	-	15.36	9.64	0.11	9.87
AV	216.761k	27.22	52.94	-25.72	19.62	Neutral	-	7.60	9.64	0.11	9.87
QP	426.418k	24.94	57.32	-32.38	19.63	Neutral	-	5.31	9.63	0.13	9.87
AV	426.418k	19.54	47.32	-27.78	19.63	Neutral	-	-0.09	9.63	0.13	9.87
QP	2.18M	26.90	56.00	-29.10	19.67	Neutral	-	7.23	9.65	0.15	9.87
AV	2.18M	21.50	46.00	-24.50	19.67	Neutral	-	1.83	9.65	0.15	9.87
QP	3.807M	27.47	56.00	-28.53	19.72	Neutral	-	7.75	9.66	0.18	9.88
AV	3.807M	22.71	46.00	-23.29	19.72	Neutral	"Worst"	2.99	9.66	0.18	9.88
QP	5.724M	22.07	60.00	-37.93	19.77	Neutral	-	2.30	9.68	0.21	9.88
AV	5.724M	18.72	50.00	-31.28	19.77	Neutral	-	-1.05	9.68	0.21	9.88

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	Adapter mode		

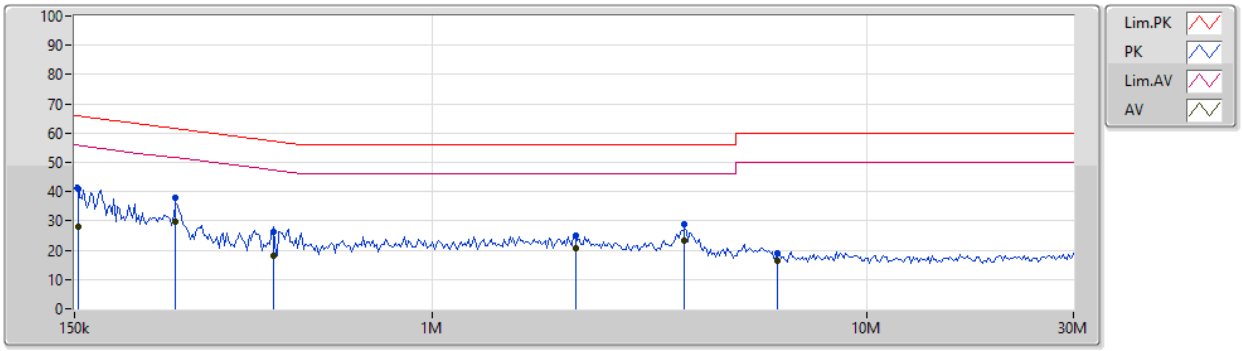
25/02/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	175.887k	40.05	64.68	-24.63	19.63	Line	-	20.42	9.65	0.11	9.87
AV	175.887k	28.85	54.68	-25.83	19.63	Line	-	9.22	9.65	0.11	9.87
QP	254.17k	37.59	61.62	-24.03	19.64	Line	-	17.95	9.65	0.12	9.87
AV	254.17k	28.75	51.62	-22.87	19.64	Line	"Worst"	9.11	9.65	0.12	9.87
QP	466.367k	28.74	56.57	-27.83	19.64	Line	-	9.10	9.64	0.13	9.87
AV	466.367k	20.35	46.57	-26.22	19.64	Line	-	0.71	9.64	0.13	9.87
QP	1.586M	22.58	56.00	-33.42	19.66	Line	-	2.92	9.65	0.14	9.87
AV	1.586M	19.28	46.00	-26.72	19.66	Line	-	-0.38	9.65	0.14	9.87
QP	3.807M	26.48	56.00	-29.52	19.72	Line	-	6.76	9.66	0.18	9.88
AV	3.807M	21.96	46.00	-24.04	19.72	Line	-	2.24	9.66	0.18	9.88
QP	7.196M	18.95	60.00	-41.05	19.80	Line	-	-0.85	9.68	0.24	9.88
AV	7.196M	16.15	50.00	-33.85	19.80	Line	-	-3.65	9.68	0.24	9.88

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Adapter mode		

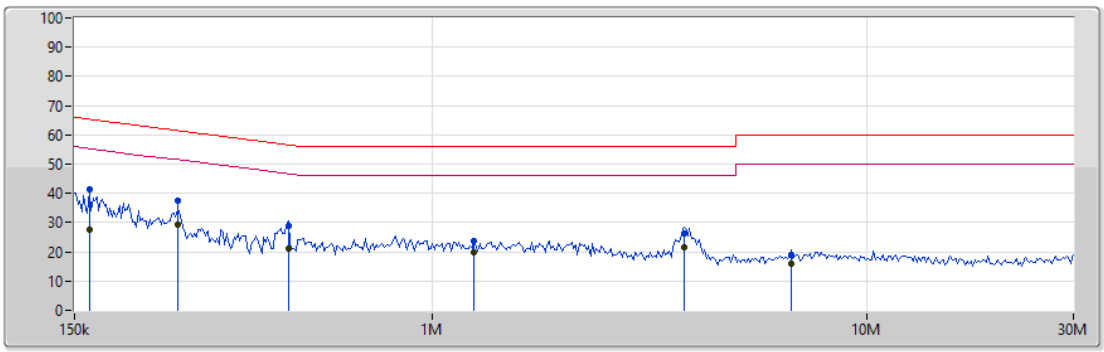
25/02/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	153.015k	41.02	65.83	-24.81	19.63	Neutral	-	21.39	9.65	0.11	9.87
AV	153.015k	27.83	55.83	-28.00	19.63	Neutral	-	8.20	9.65	0.11	9.87
QP	256.712k	37.87	61.54	-23.67	19.63	Neutral	-	18.24	9.64	0.12	9.87
AV	256.712k	29.63	51.54	-21.91	19.63	Neutral	"Worst"	10.00	9.64	0.12	9.87
QP	430.682k	26.10	57.24	-31.14	19.63	Neutral	-	6.47	9.63	0.13	9.87
AV	430.682k	18.16	47.24	-29.08	19.63	Neutral	-	-1.47	9.63	0.13	9.87
QP	2.137M	25.02	56.00	-30.98	19.67	Neutral	-	5.35	9.65	0.15	9.87
AV	2.137M	20.57	46.00	-25.43	19.67	Neutral	-	0.90	9.65	0.15	9.87
QP	3.807M	29.03	56.00	-26.97	19.72	Neutral	-	9.31	9.66	0.18	9.88
AV	3.807M	23.07	46.00	-22.93	19.72	Neutral	-	3.35	9.66	0.18	9.88
QP	6.26M	19.12	60.00	-40.88	19.78	Neutral	-	-0.66	9.68	0.22	9.88
AV	6.26M	16.20	50.00	-33.80	19.78	Neutral	-	-3.58	9.68	0.22	9.88

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	Adapter mode		

25/02/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	162.429k	41.50	65.33	-23.83	19.64	Line	-	21.86	9.66	0.11	9.87
AV	162.429k	27.77	55.33	-27.56	19.64	Line	-	8.13	9.66	0.11	9.87
QP	259.279k	37.35	61.45	-24.10	19.64	Line	-	17.71	9.65	0.12	9.87
AV	259.279k	29.40	51.45	-22.05	19.64	Line	"Worst"	9.76	9.65	0.12	9.87
QP	466.367k	28.75	56.57	-27.82	19.64	Line	-	9.11	9.64	0.13	9.87
AV	466.367k	20.91	46.57	-25.66	19.64	Line	-	1.27	9.64	0.13	9.87
QP	1.249M	23.74	56.00	-32.26	19.64	Line	-	4.10	9.64	0.12	9.88
AV	1.249M	19.94	46.00	-26.06	19.64	Line	-	0.30	9.64	0.12	9.88
QP	3.807M	26.40	56.00	-29.60	19.72	Line	-	6.68	9.66	0.18	9.88
AV	3.807M	21.62	46.00	-24.38	19.72	Line	-	1.90	9.66	0.18	9.88
QP	6.712M	18.77	60.00	-41.23	19.79	Line	-	-1.02	9.68	0.23	9.88
AV	6.712M	15.97	50.00	-34.03	19.79	Line	-	-3.82	9.68	0.23	9.88

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(Port4)	10.075M	16.492M	16M5G1D	9.525M	13.993M

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

Result

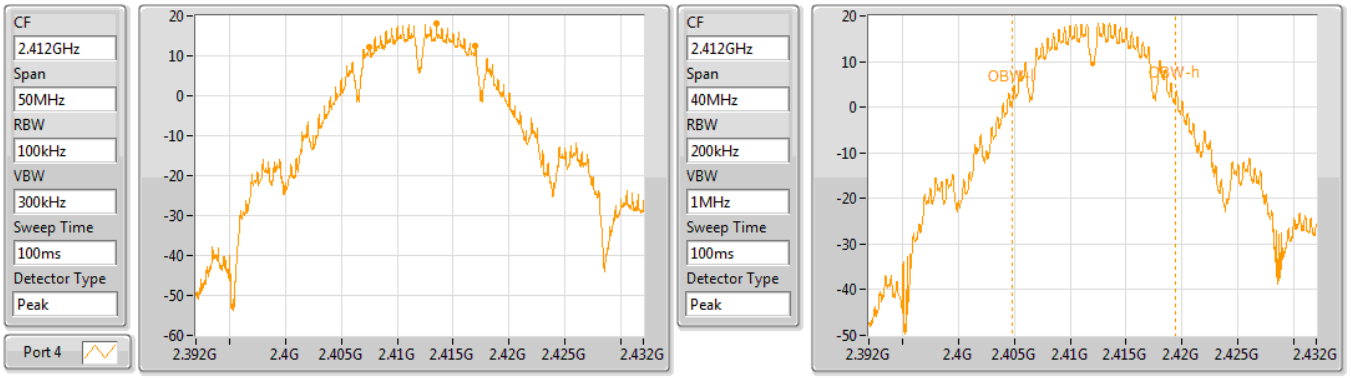
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX(Port4)	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k							9.525M	14.553M
2437MHz	Pass	500k							9.55M	13.993M
2462MHz	Pass	500k							10.075M	16.492M

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

802.11b_Nss1,(1Mbps)_1TX(Port4) EBW

2412MHz

19/12/2019

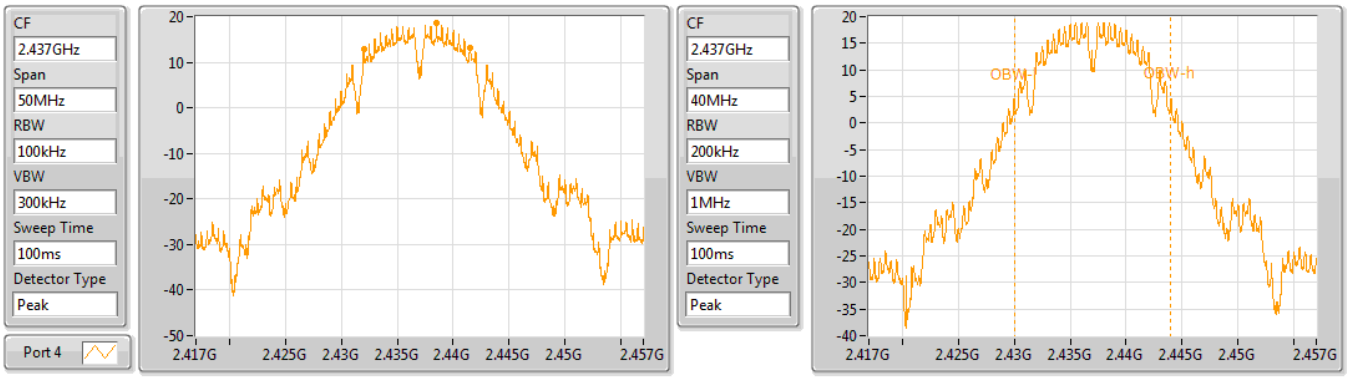


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.525M	2.407475G	2.417G	14.553M	2.404864G	2.419416G	500k	4

802.11b_Nss1,(1Mbps)_1TX(Port4) EBW

2437MHz

19/12/2019

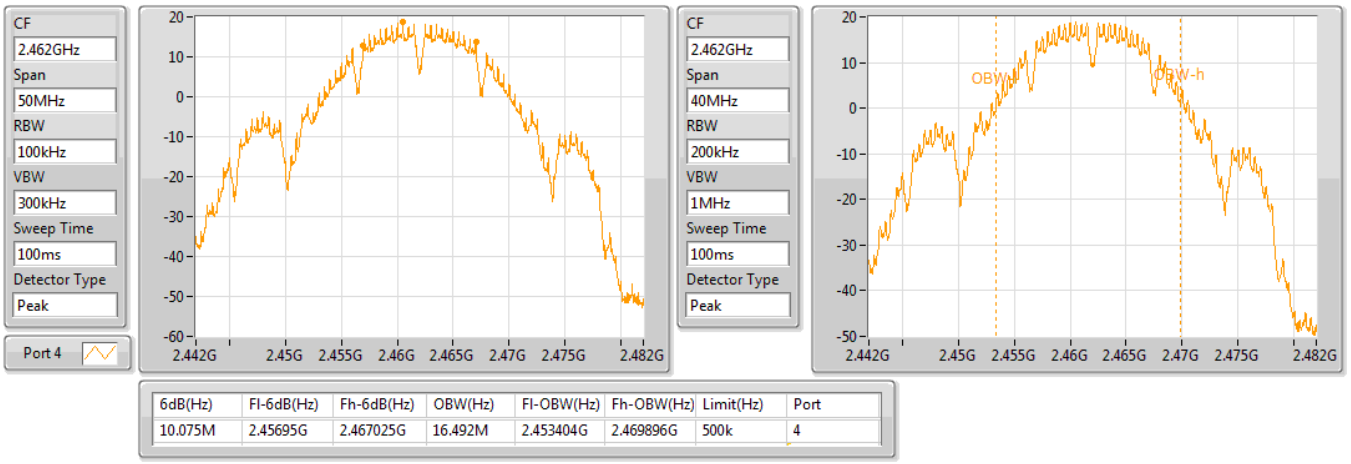


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.55M	2.432G	2.44155G	13.993M	2.430023G	2.444016G	500k	4

802.11b_Nss1,(1Mbps)_1TX(Port4) **EBW**

2462MHz

19/12/2019



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.45695G	2.467025G	16.492M	2.453404G	2.469896G	500k	4

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	19.1M	19.17M	19M2D1D	18.85M	19.01M
802.11ax HEW40_Nss4,(MCS0)_4TX	38.25M	38.781M	38M8D1D	37.9M	37.781M

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

Result

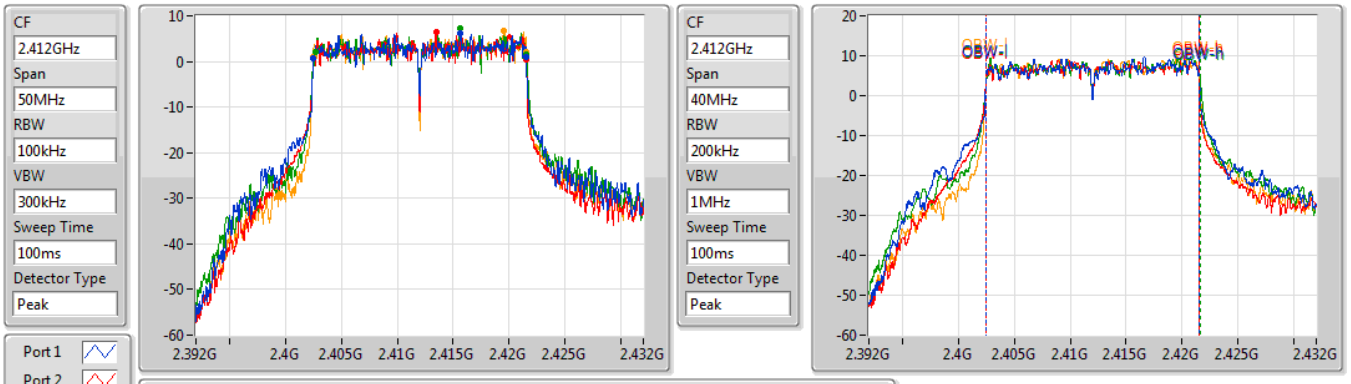
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	19.05M	19.03M	19.075M	19.01M	18.85M	19.11M	19.075M	19.01M
2437MHz	Pass	500k	19.025M	19.03M	19.075M	19.09M	19.075M	19.17M	19.1M	19.07M
2462MHz	Pass	500k	19.025M	19.07M	19.1M	19.03M	19.025M	19.03M	19.075M	19.01M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.9M	37.981M	38.15M	38.781M	38.15M	38.021M	38.05M	38.381M
2437MHz	Pass	500k	38.1M	38.061M	38.2M	38.621M	38.2M	38.421M	38.2M	38.381M
2452MHz	Pass	500k	37.95M	37.981M	38.25M	38.301M	38.2M	38.101M	37.95M	37.781M

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

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

2412MHz

18/12/2019

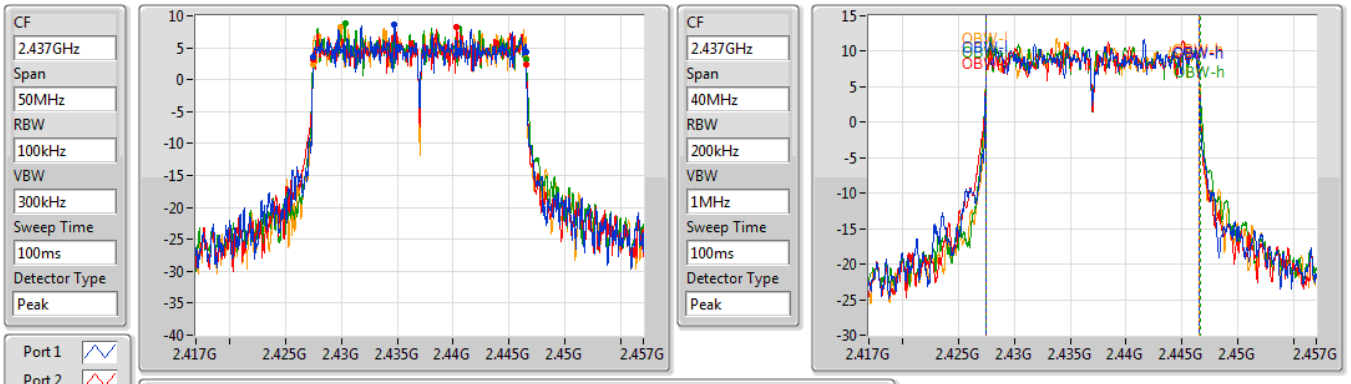


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.05M	2.402475G	2.421525G	19.03M	2.402505G	2.421535G	500k	1
19.075M	2.402475G	2.42155G	19.01M	2.402485G	2.421495G	500k	2
18.85M	2.40265G	2.4215G	19.11M	2.402525G	2.421635G	500k	3
19.075M	2.402475G	2.42155G	19.01M	2.402525G	2.421535G	500k	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

2437MHz

18/12/2019

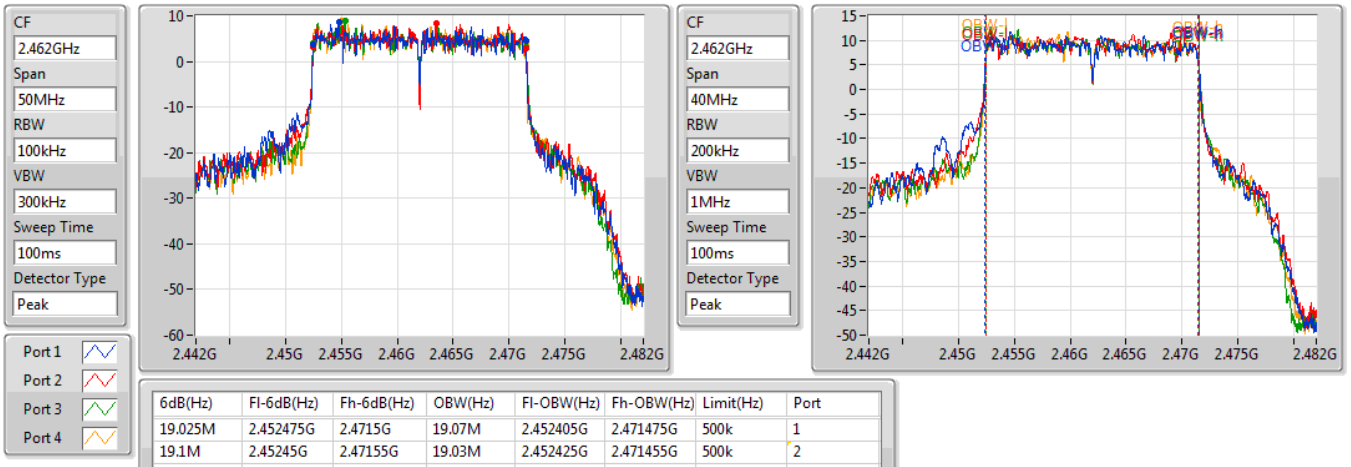


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.025M	2.427475G	2.4465G	19.03M	2.427485G	2.446515G	500k	1
19.075M	2.427475G	2.44655G	19.09M	2.427425G	2.446515G	500k	2
19.075M	2.42745G	2.446525G	19.17M	2.427465G	2.446635G	500k	3
19.1M	2.42745G	2.44655G	19.07M	2.427485G	2.446555G	500k	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

2462MHz

18/12/2019

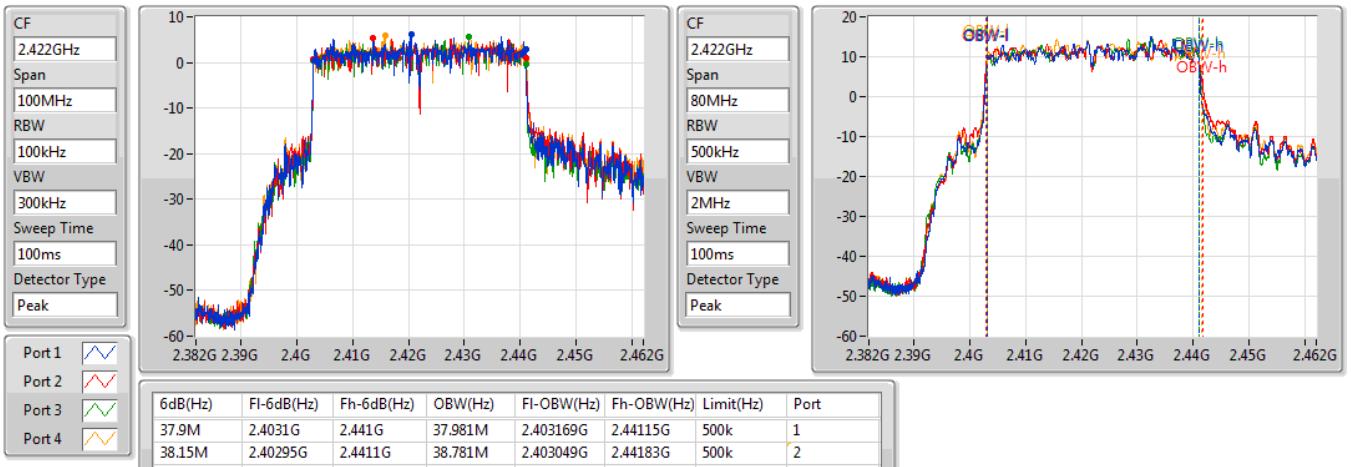


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.025M	2.452475G	2.4715G	19.07M	2.452405G	2.471475G	500k	1
19.1M	2.45245G	2.47155G	19.03M	2.452425G	2.471455G	500k	2
19.025M	2.45245G	2.471475G	19.03M	2.452465G	2.471495G	500k	3
19.075M	2.45245G	2.471525G	19.01M	2.452465G	2.471475G	500k	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

2422MHz

23/12/2019

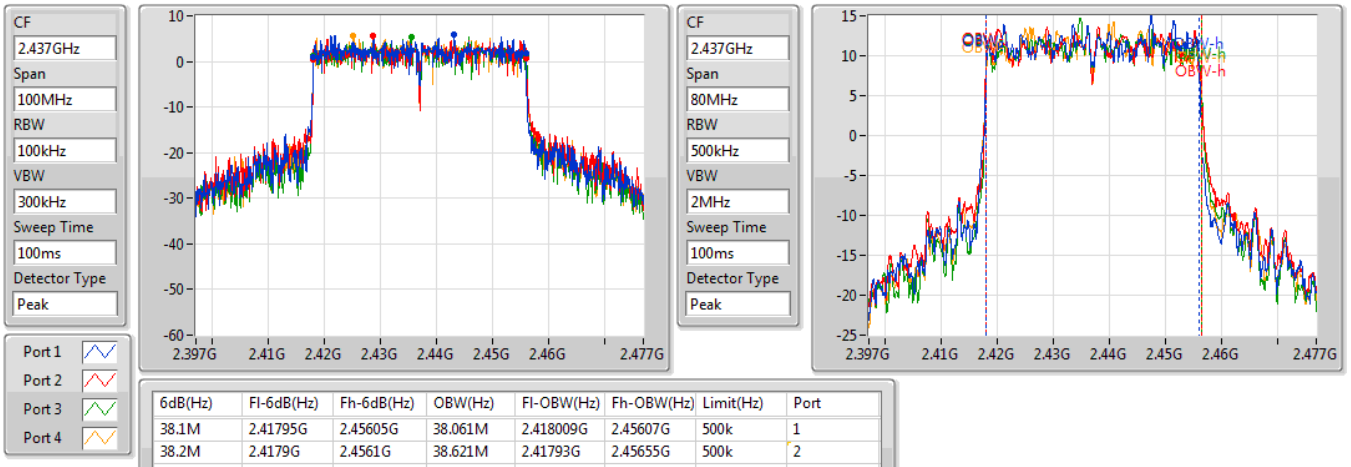


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.9M	2.4031G	2.441G	37.981M	2.403169G	2.44115G	500k	1
38.15M	2.40295G	2.4411G	38.781M	2.403049G	2.44183G	500k	2
38.15M	2.40295G	2.4411G	38.021M	2.403129G	2.44115G	500k	3
38.05M	2.40305G	2.4411G	38.381M	2.403129G	2.44151G	500k	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

2437MHz

23/12/2019

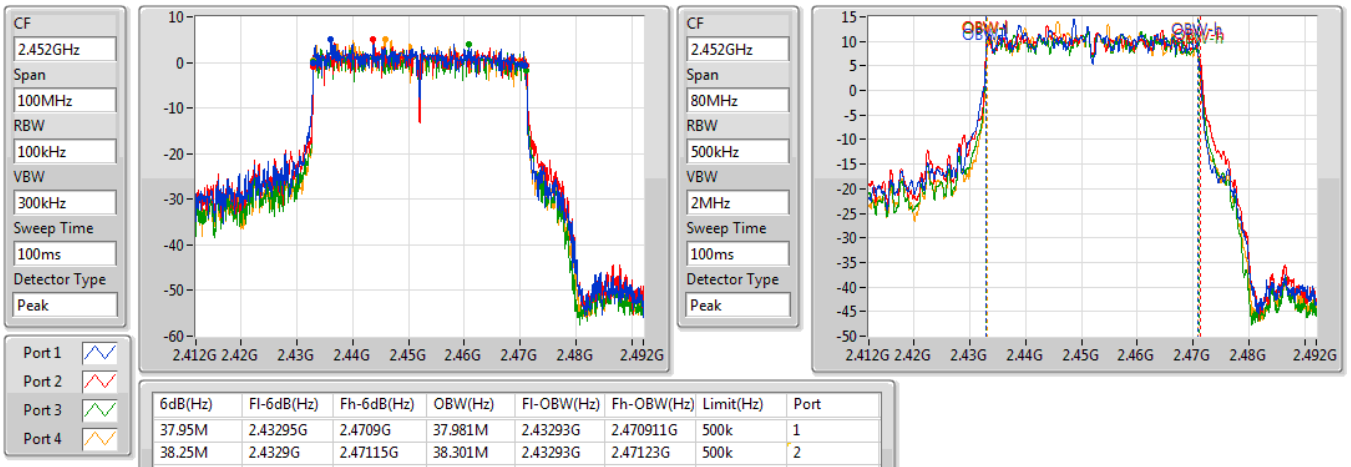


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.1M	2.41795G	2.45605G	38.061M	2.418009G	2.45607G	500k	1
38.2M	2.4179G	2.4561G	38.621M	2.41793G	2.45655G	500k	2
38.2M	2.41795G	2.45615G	38.421M	2.418009G	2.45643G	500k	3
38.2M	2.41795G	2.45615G	38.381M	2.418009G	2.45639G	500k	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

2452MHz

23/12/2019



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.95M	2.43295G	2.4709G	37.981M	2.43293G	2.470911G	500k	1
38.25M	2.4329G	2.47115G	38.301M	2.43293G	2.47123G	500k	2
38.2M	2.43295G	2.47115G	38.101M	2.433009G	2.47111G	500k	3
37.95M	2.43305G	2.471G	37.781M	2.433129G	2.470911G	500k	4

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.175M	24.588M	24M6D1D	13.725M	19.24M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	38.15M	38.281M	38M3D1D	38.1M	38.031M

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

Result

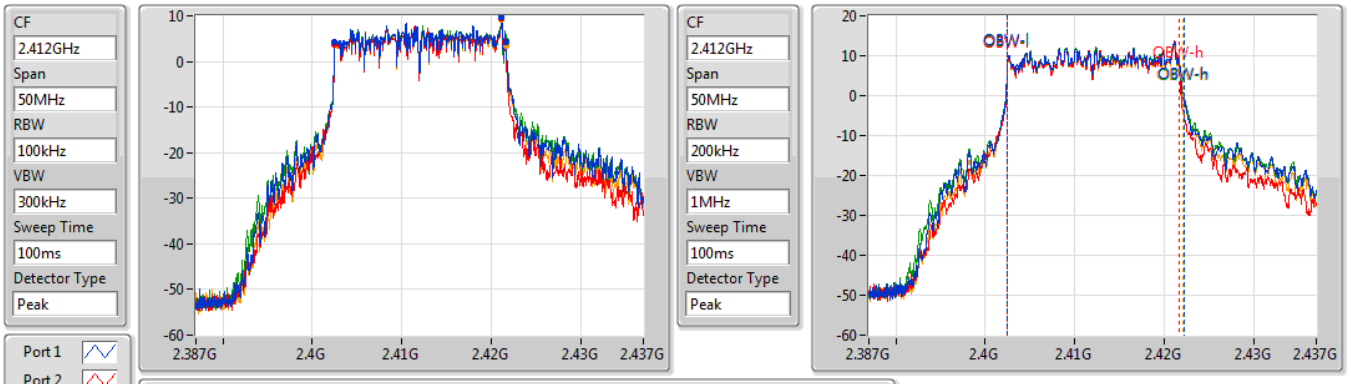
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	19.15M	19.715M	19.075M	19.265M	19.15M	19.815M	19.125M	19.64M
2437MHz	Pass	500k	13.725M	21.869M	15.05M	24.588M	14M	23.908M	13.75M	22.809M
2462MHz	Pass	500k	19.175M	19.365M	19.15M	19.365M	19.175M	19.24M	19.15M	19.365M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	38.15M	38.081M	38.15M	38.081M	38.15M	38.081M	38.15M	38.081M
2437MHz	Pass	500k	38.15M	38.281M	38.1M	38.181M	38.1M	38.281M	38.1M	38.131M
2452MHz	Pass	500k	38.15M	38.081M	38.1M	38.031M	38.1M	38.081M	38.1M	38.031M

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

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

2412MHz

18/02/2020

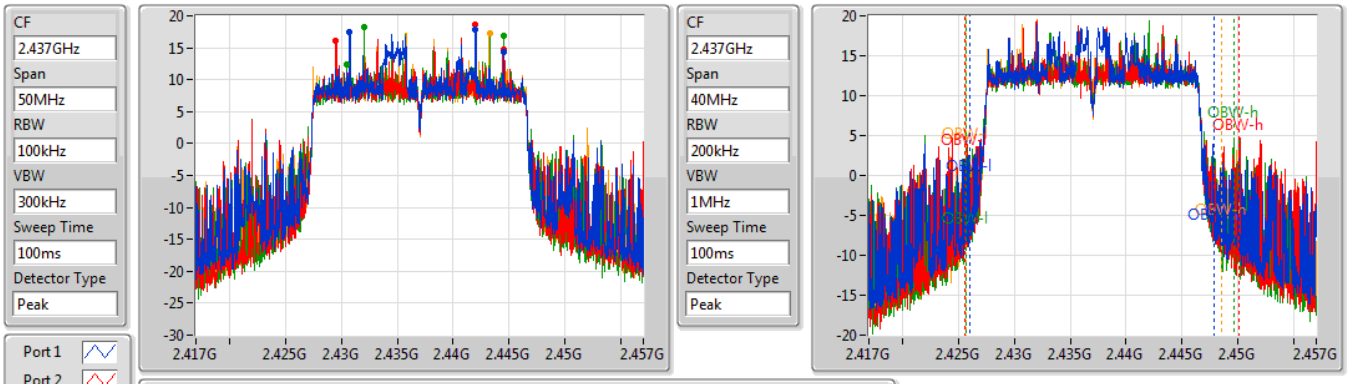


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.15M	2.4025G	2.42165G	19.715M	2.40248G	2.422195G	500k	1
19.075M	2.402525G	2.4216G	19.265M	2.40248G	2.421745G	500k	2
19.15M	2.4025G	2.42165G	19.815M	2.40248G	2.422295G	500k	3
19.125M	2.402525G	2.42165G	19.64M	2.402505G	2.422145G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

2437MHz

22/01/2020

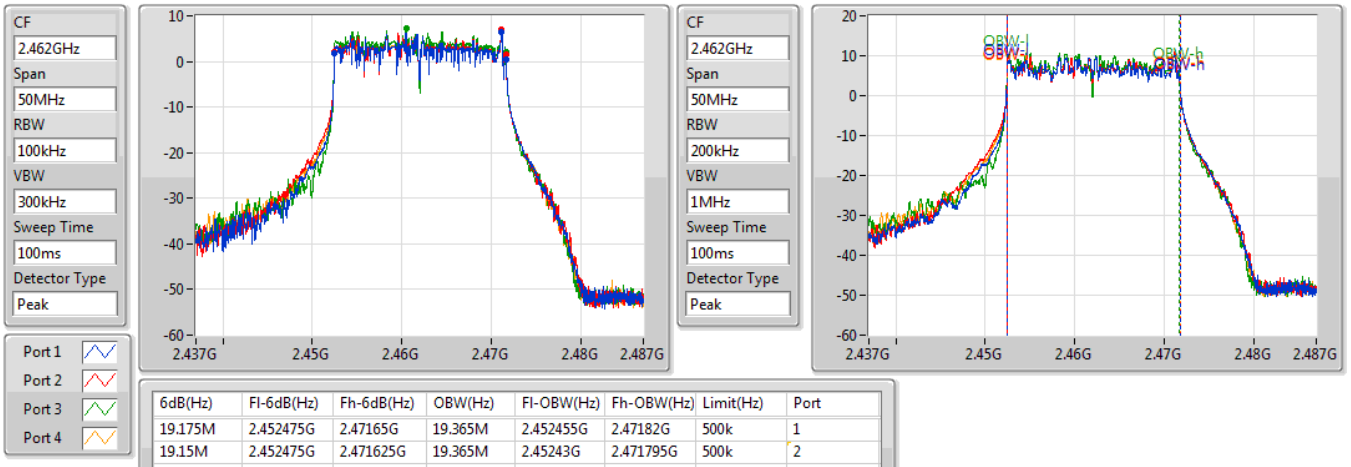


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
13.725M	2.43075G	2.444475G	21.869M	2.425986G	2.447855G	500k	1
15.05M	2.429525G	2.444575G	24.588M	2.425526G	2.450113G	500k	2
14M	2.430525G	2.444525G	23.908M	2.425686G	2.449594G	500k	3
13.75M	2.429525G	2.443275G	22.809M	2.425726G	2.448534G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

2462MHz

18/02/2020

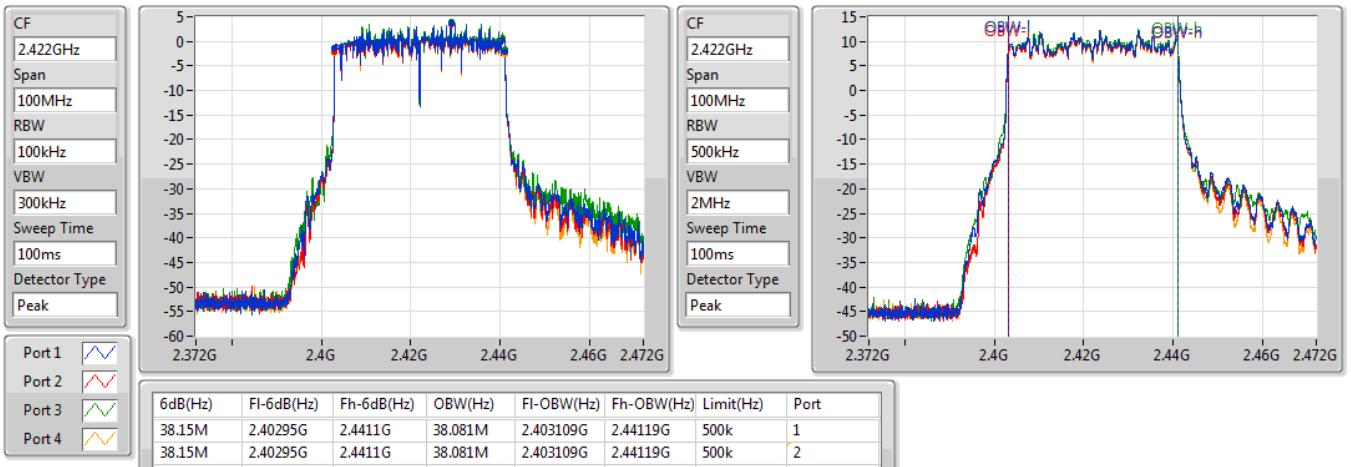


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.175M	2.452475G	2.47165G	19.365M	2.452455G	2.47182G	500k	1
19.15M	2.452475G	2.471625G	19.365M	2.45243G	2.471795G	500k	2
19.175M	2.45245G	2.471625G	19.24M	2.45248G	2.47172G	500k	3
19.15M	2.452475G	2.471625G	19.365M	2.45243G	2.471795G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

2422MHz

18/02/2020

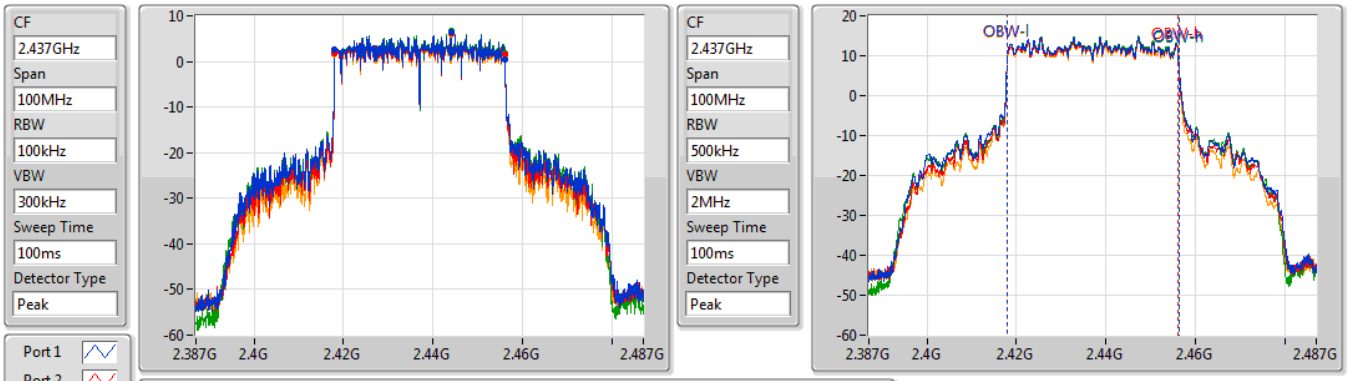


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.15M	2.40295G	2.4411G	38.081M	2.403109G	2.44119G	500k	1
38.15M	2.40295G	2.4411G	38.081M	2.403109G	2.44119G	500k	2
38.15M	2.40295G	2.4411G	38.081M	2.403109G	2.44119G	500k	3
38.15M	2.40295G	2.4411G	38.081M	2.403109G	2.44119G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

2437MHz

25/02/2020

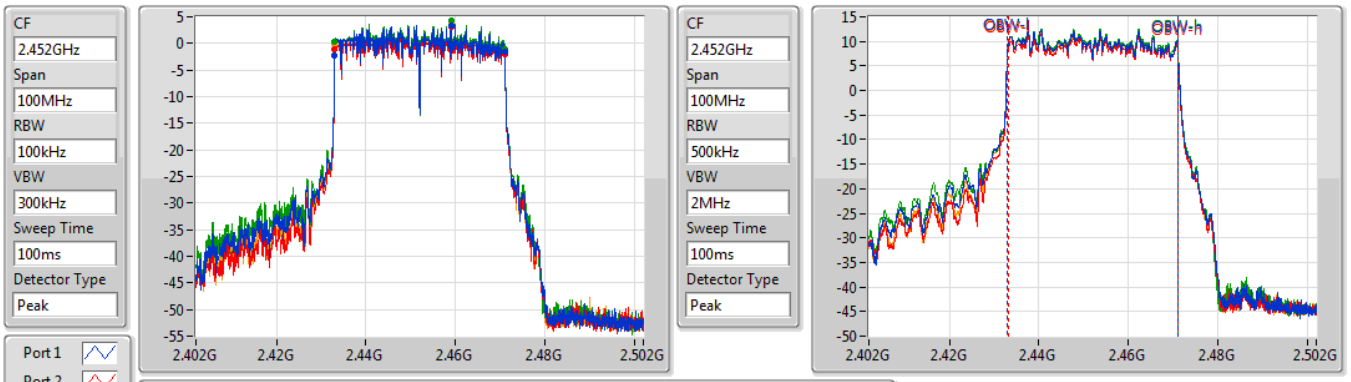


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.15M	2.41795G	2.4561G	38.281M	2.41796G	2.45624G	500k	1
38.1M	2.41795G	2.45605G	38.181M	2.418009G	2.45619G	500k	2
38.1M	2.41795G	2.45605G	38.281M	2.41796G	2.45624G	500k	3
38.1M	2.41795G	2.45605G	38.131M	2.418009G	2.45614G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

2452MHz

18/02/2020



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.15M	2.4329G	2.47105G	38.081M	2.433009G	2.47109G	500k	1
38.1M	2.43295G	2.47105G	38.031M	2.433059G	2.47109G	500k	2
38.1M	2.43295G	2.47105G	38.081M	2.433009G	2.47109G	500k	3
38.1M	2.43295G	2.47105G	38.031M	2.433009G	2.47104G	500k	4

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX(Port4)	28.38	0.68865

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX(Port4)	-	-	-	-	-	-	-	-
2412MHz	Pass	5.30				27.62	27.62	30.00
2437MHz	Pass	5.50				28.38	28.38	30.00
2462MHz	Pass	5.40				28.30	28.30	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	29.96	0.99083
802.11ax HEW40_Nss4,(MCS0)_4TX	29.96	0.99083

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.10	21.93	21.85	22.08	21.98	27.98	30.00
2417MHz	Pass	1.10	24.05	23.73	24.32	23.64	29.96	30.00
2437MHz	Pass	1.40	23.89	23.76	24.06	23.94	29.93	30.00
2457MHz	Pass	1.60	23.49	23.79	24.25	23.54	29.80	30.00
2462MHz	Pass	1.60	23.74	24.01	23.80	23.76	29.85	30.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	1.10	23.76	23.88	23.70	24.17	29.90	30.00
2427MHz	Pass	1.10	23.98	23.59	24.20	23.97	29.96	30.00
2437MHz	Pass	1.40	24.06	24.02	23.74	23.88	29.95	30.00
2447MHz	Pass	1.60	23.17	23.10	23.89	23.20	29.37	30.00
2452MHz	Pass	1.60	22.73	22.81	22.19	22.48	28.58	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.96	0.99083
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.85	0.96605

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.30	22.25	21.95	22.53	21.83	28.17	30.00
2437MHz	Pass	5.50	22.82	21.74	24.75	24.78	29.73	30.00
2457MHz	Pass	5.40	23.48	24.90	23.61	23.60	29.96	30.00
2462MHz	Pass	5.40	21.28	21.40	22.26	21.59	27.67	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.30	21.53	21.48	21.86	21.04	27.51	30.00
2437MHz	Pass	5.50	23.99	23.65	24.27	23.36	29.85	30.00
2447MHz	Pass	5.40	21.97	21.78	22.67	22.25	28.20	30.00
2452MHz	Pass	5.40	21.81	21.10	22.19	21.61	27.72	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX(Port4)	4.32

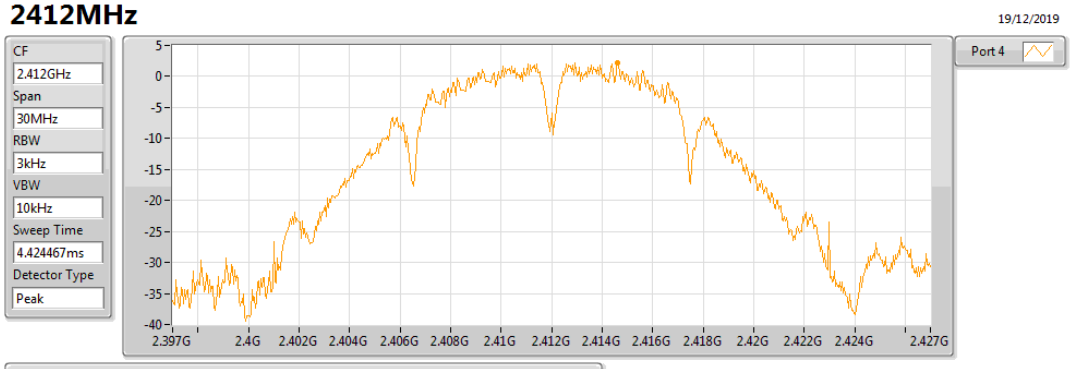
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX(Port4)	-	-	-	-	-	-	-	-
2412MHz	Pass	5.30				2.21	2.21	8.00
2437MHz	Pass	5.50				4.32	4.32	8.00
2462MHz	Pass	5.40				3.18	3.18	8.00

DG = Directional Gain;
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(Port4) **PSD**

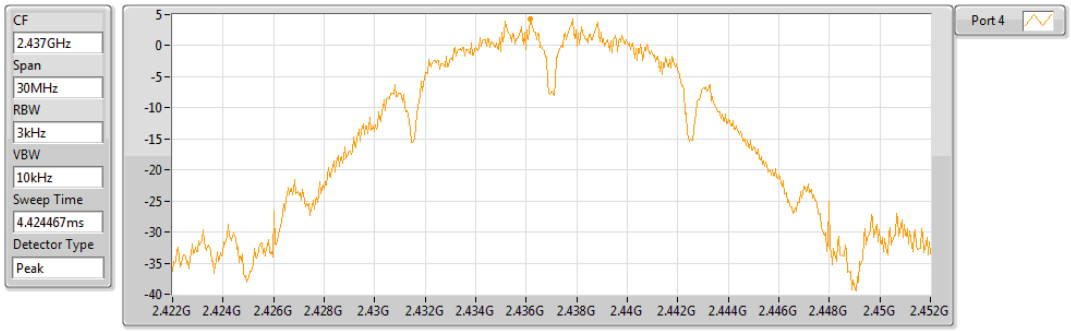
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.21	2.21				2.21

802.11b_Nss1,(1Mbps)_1TX(Port4) **PSD**

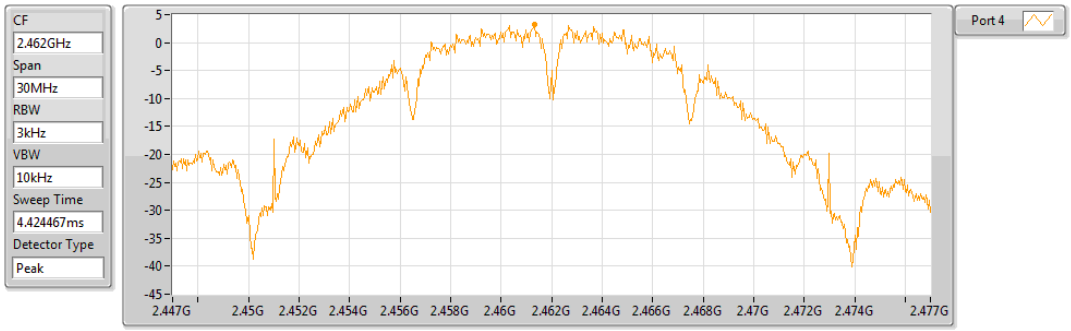
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.32	4.32				4.32

802.11b_Nss1,(1Mbps)_1TX(Port4) **PSD**

2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.18	3.18				3.18

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20_Nss4,(MCS0)_4TX	6.7
802.11ax HEW40_Nss4,(MCS0)_4TX	-3.53

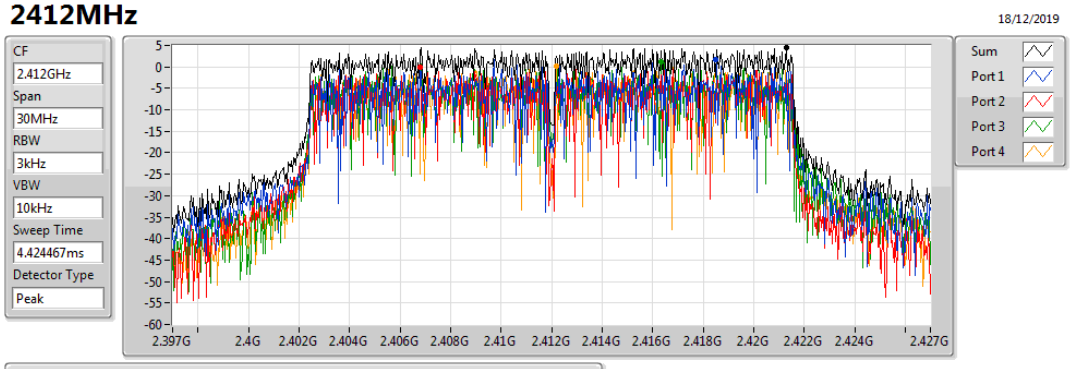
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.10	1.64	-0.02	1.11	0.07	4.51	8.00
2437MHz	Pass	1.40	3.76	2.68	3.49	1.9	6.65	8.00
2462MHz	Pass	1.60	3.5	2.43	2.84	2.09	6.70	8.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	1.10	-7.35	-8.06	-8.38	-7.37	-3.53	8.00
2437MHz	Pass	1.40	-6.82	-8.86	-8.38	-7.96	-3.83	8.00
2452MHz	Pass	1.60	-8.71	-8.21	-9.84	-8.90	-4.78	8.00

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

802.11ax HEW20_Nss4,(MCS0)_4TX **PSD**

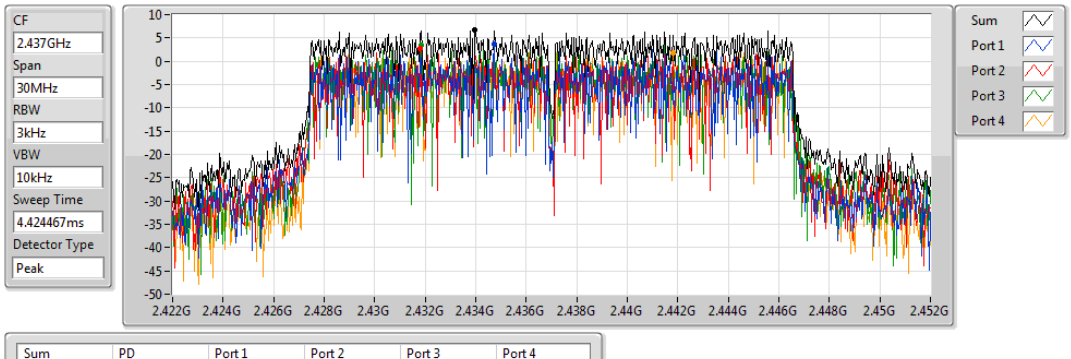
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.51	4.51	1.64	-0.02	1.11	0.07

802.11ax HEW20_Nss4,(MCS0)_4TX **PSD**

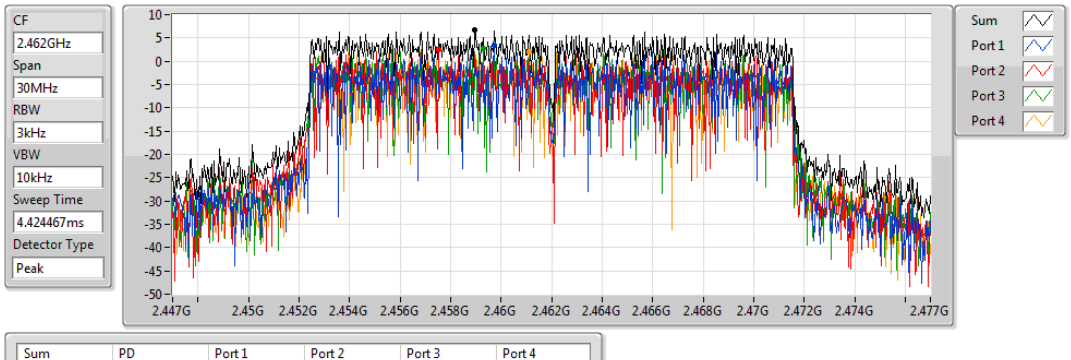
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.65	6.65	3.76	2.68	3.49	1.90

802.11ax HEW20_Nss4,(MCS0)_4TX **PSD**

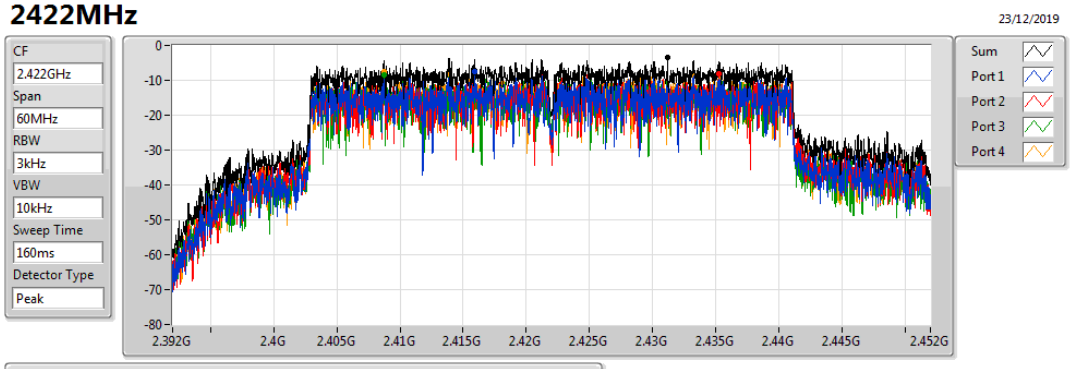
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.70	6.70	3.50	2.43	2.84	2.09

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

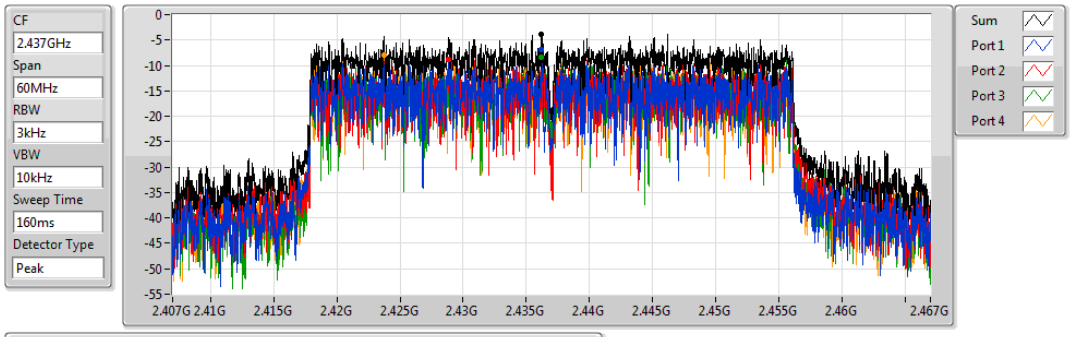
2422MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.53	-3.53	-7.35	-8.06	-8.38	-7.37

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

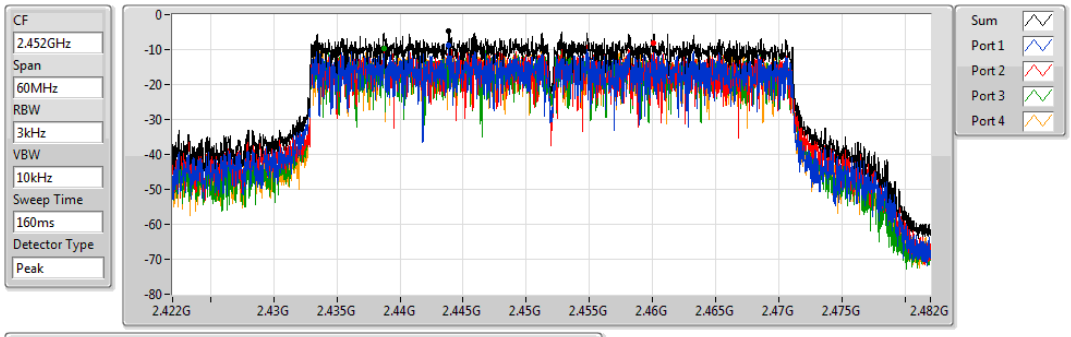
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.83	-3.83	-6.82	-8.86	-8.38	-7.96

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

2452MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.78	-4.78	-8.71	-8.21	-9.84	-8.90

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	7.59
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.76

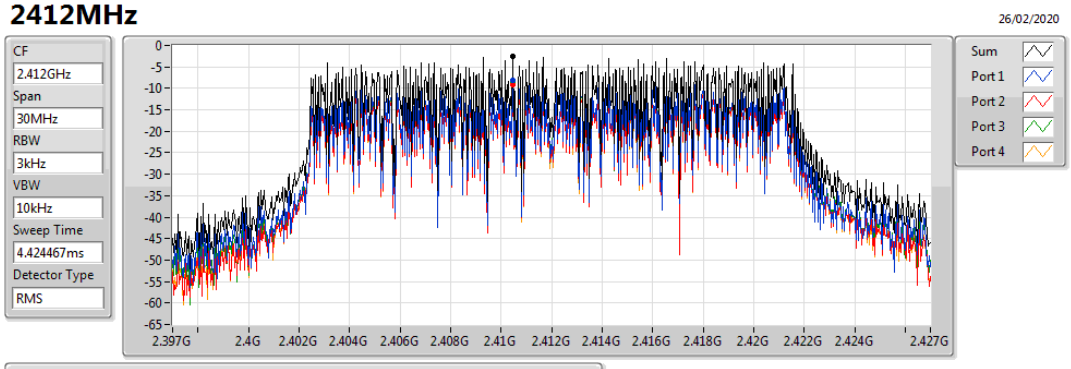
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.30	-8.02	-9.17	-8.29	-9.06	-2.59	8.00
2437MHz	Pass	5.50	-8.40	-9.08	-7.72	-8.99	-2.49	8.00
2462MHz	Pass	5.40	1.27	1.40	2.42	1.54	7.59	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.30	-0.50	-0.75	-0.15	-1.00	5.43	8.00
2437MHz	Pass	5.50	1.96	1.56	2.05	1.63	7.76	8.00
2452MHz	Pass	5.40	-0.02	-0.96	0.00	-0.39	5.70	8.00

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

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

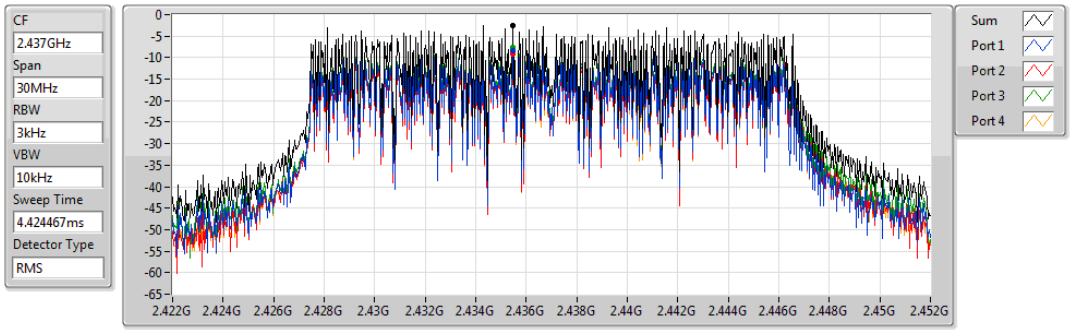
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.59	-2.59	-8.02	-9.17	-8.29	-9.06

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

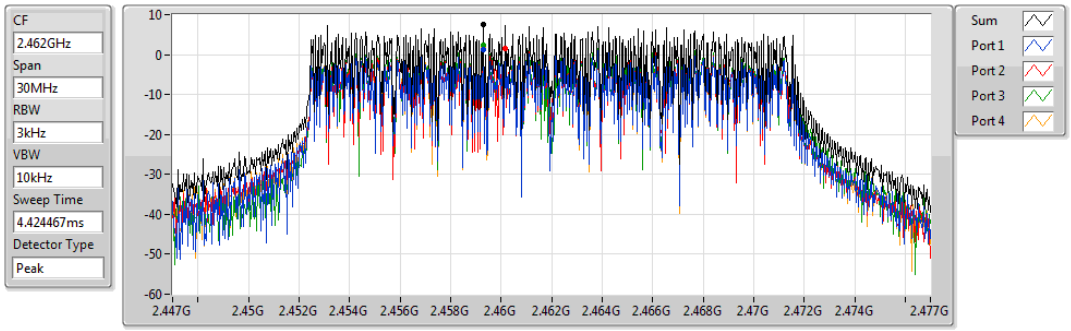
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.49	-2.49	-8.40	-9.08	-7.72	-8.99

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

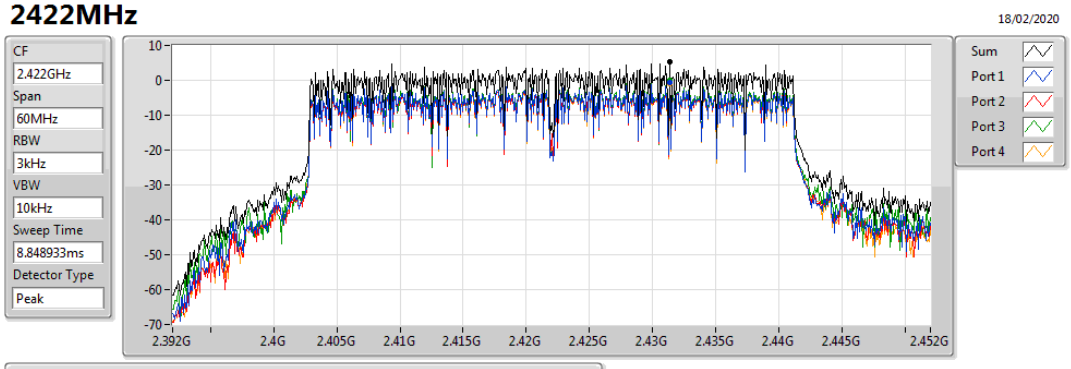
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.59	7.59	1.27	1.40	2.42	1.54

802.11ax HEW40-BF_Nss1,(MCS0)_4TX **PSD**

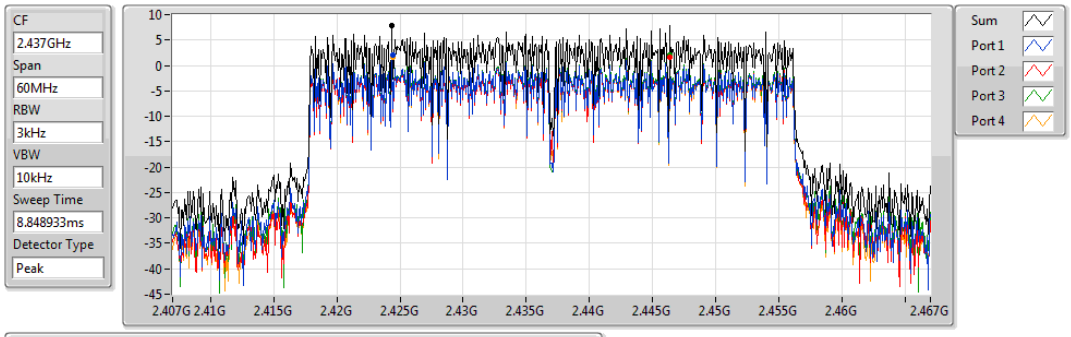
2422MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.43	5.43	-0.50	-0.75	-0.15	-1.00

802.11ax HEW40-BF_Nss1,(MCS0)_4TX **PSD**

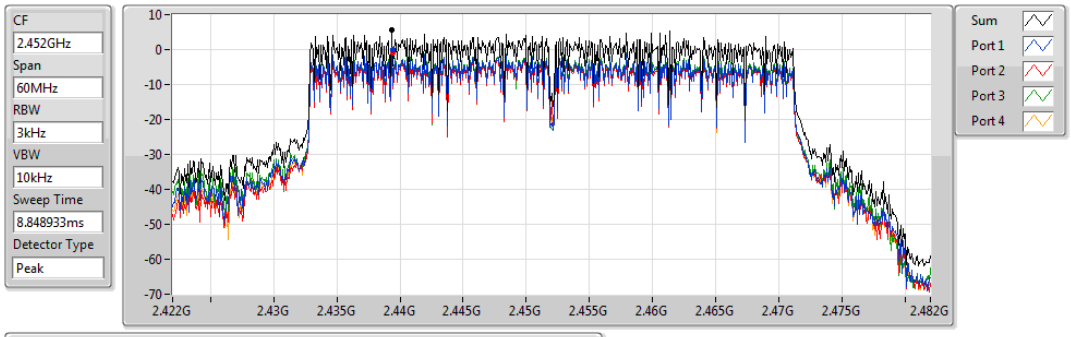
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.76	7.76	1.96	1.56	2.05	1.63

802.11ax HEW40-BF_Nss1,(MCS0)_4TX **PSD**

2452MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.70	5.70	-0.02	-0.96	0.00	-0.39

Summary

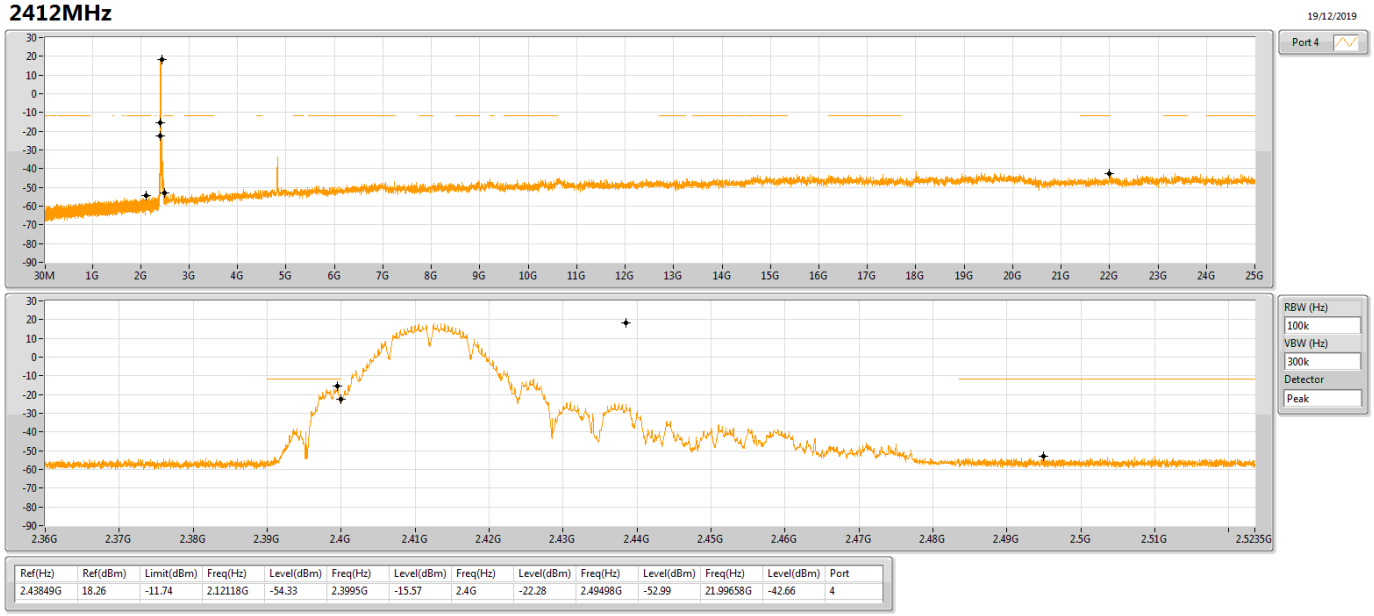
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX(Port4)	Pass	2.43849G	18.26	-11.74	2.12118G	-54.33	2.3995G	-15.57	2.4G	-22.28	2.49498G	-52.99	21.99658G	-42.66	4

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX(Port4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43849G	18.26	-11.74	2.12118G	-54.33	2.3995G	-15.57	2.4G	-22.28	2.49498G	-52.99	21.99658G	-42.66	4
2437MHz	Pass	2.43849G	18.26	-11.74	2.1238G	-54.57	2.39952G	-39.66	2.4G	-40.53	2.49094G	-52.58	17.16132G	-42.96	4
2462MHz	Pass	2.43849G	18.26	-11.74	1.95371G	-54.61	2.39652G	-41.97	2.4835G	-45.36	2.4835G	-45.42	24.705G	-42.49	4

802.11b_Nss1,(1Mbps)_1TX(Port4) **CSE NdB**

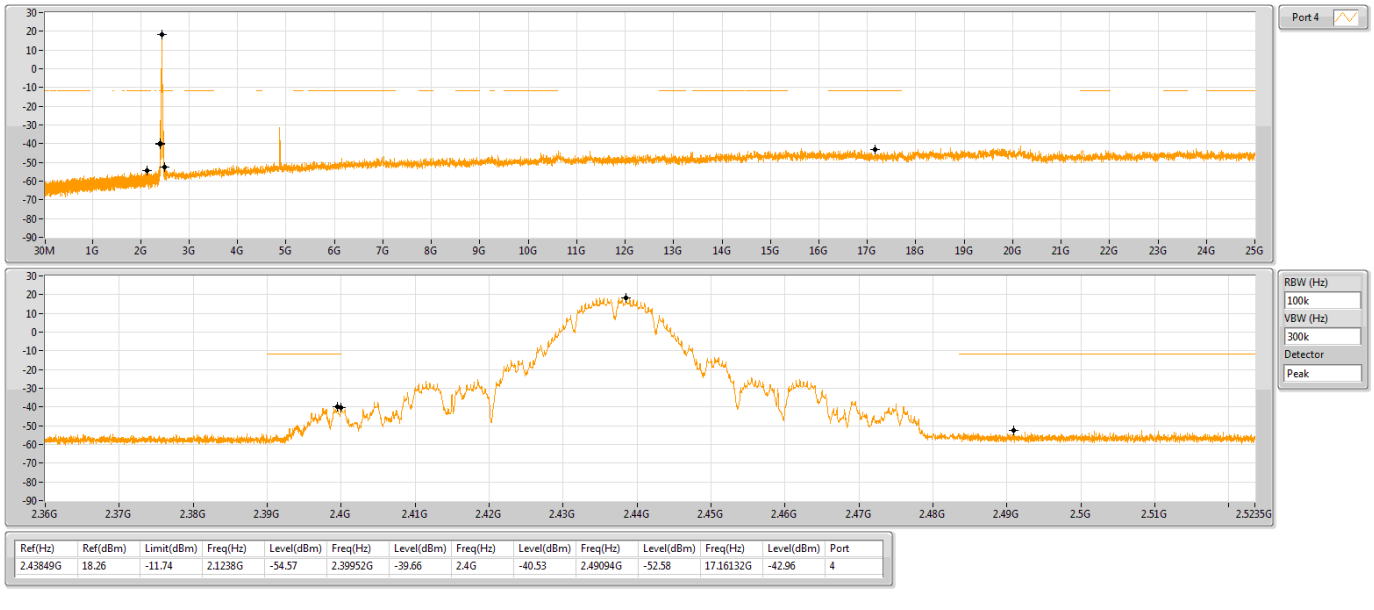
2412MHz



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
2.43849G	18.26	-11.74	2.12118G	-54.33	2.3995G	-15.57	2.4G	-22.28	2.49498G	-52.99	21.99658G	-42.66	4

802.11b_Nss1,(1Mbps)_1TX(Port4) **CSE NdB**

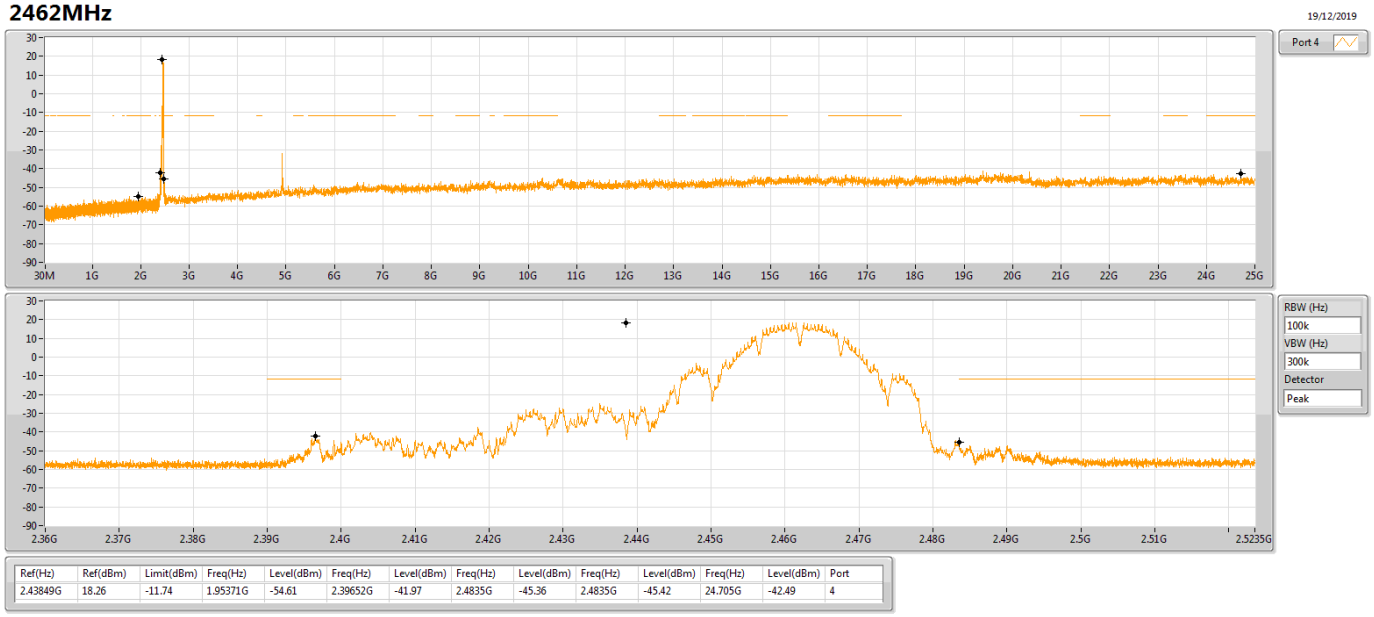
2437MHz



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
2.43849G	18.26	-11.74	2.1238G	-54.57	2.39952G	-39.66	2.4G	-40.53	2.49094G	-52.58	17.16132G	-42.96	4

802.11b_Nss1,(1Mbps)_1TX(Port4) **CSE NdB**

2462MHz



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
2.43849G	18.26	-11.74	1.95371G	-54.61	2.39652G	-41.97	2.4835G	-45.36	2.4835G	-45.42	24.705G	-42.49	4

Summary

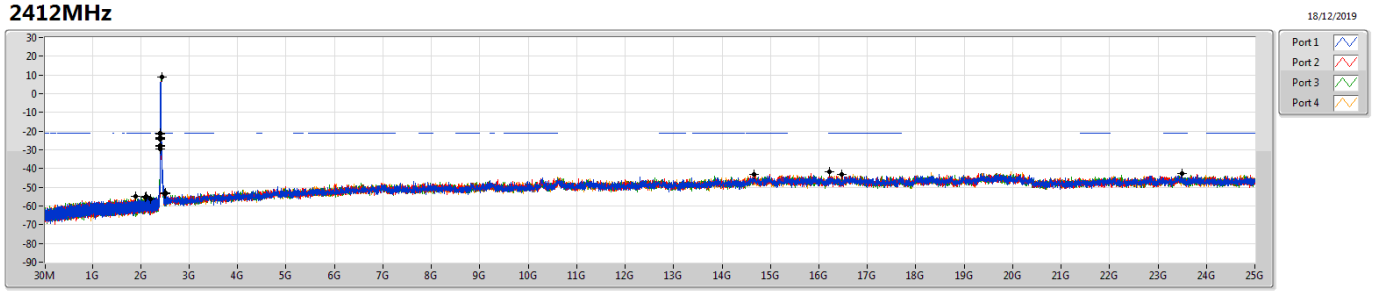
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	Pass	2.43035G	8.77	-21.23	1.88963G	-54.91	2.39998G	-21.29	2.4G	-21.49	2.49808G	-53.52	14.66081G	-43.31	1
802.11ax HEW40_Nss4,(MCS0)_4TX	Pass	2.42117G	6.17	-23.83	31.15M	-48.99	2.39908G	-25.00	2.4G	-29.83	2.48674G	-47.68	23.37335G	-42.69	1

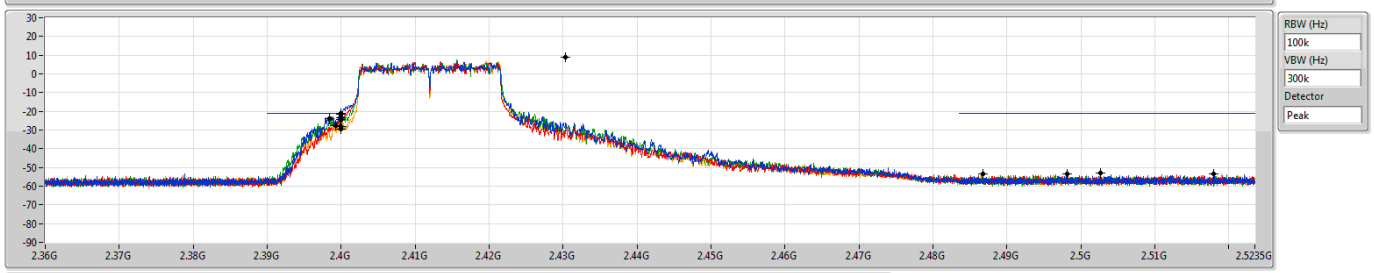
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43035G	8.77	-21.23	1.88963G	-54.91	2.39998G	-21.29	2.4G	-21.49	2.49808G	-53.52	14.66081G	-43.31	1
2412MHz	Pass	2.43035G	8.77	-21.23	2.19544G	-56.45	2.39998G	-24.15	2.4G	-23.23	2.50266G	-52.74	16.22574G	-41.61	2
2412MHz	Pass	2.43035G	8.77	-21.23	2.10923G	-55.06	2.39842G	-24.10	2.4G	-28.35	2.4868G	-53.40	16.47017G	-43.34	3
2412MHz	Pass	2.43035G	8.77	-21.23	2.09205G	-55.54	2.39924G	-27.76	2.4G	-29.40	2.51792G	-53.21	23.49969G	-42.77	4
2437MHz	Pass	2.43035G	8.77	-21.23	2.11273G	-54.95	2.39954G	-41.75	2.4G	-44.67	2.49222G	-53.45	16.28755G	-42.97	1
2437MHz	Pass	2.43035G	8.77	-21.23	2.15321G	-55.07	2.39992G	-42.54	2.4G	-44.51	2.51154G	-52.72	16.5966G	-42.93	2
2437MHz	Pass	2.43035G	8.77	-21.23	2.15642G	-54.75	2.4G	-42.71	2.4G	-42.77	2.52126G	-53.47	23.41541G	-42.84	3
2437MHz	Pass	2.43035G	8.77	-21.23	2.12584G	-55.71	2.39998G	-42.77	2.4G	-45.37	2.51096G	-53.46	21.94882G	-42.38	4
2462MHz	Pass	2.43035G	8.77	-21.23	2.30932G	-54.44	2.3999G	-49.35	2.4835G	-50.02	2.48516G	-47.99	16.37745G	-43.52	1
2462MHz	Pass	2.43035G	8.77	-21.23	2.15991G	-55.67	2.39988G	-50.38	2.4835G	-48.02	2.48396G	-45.10	23.39012G	-43.77	2
2462MHz	Pass	2.43035G	8.77	-21.23	2.10399G	-55.52	2.3978G	-50.36	2.4835G	-50.39	2.48398G	-48.04	23.42665G	-42.83	3
2462MHz	Pass	2.43035G	8.77	-21.23	2.10865G	-56.12	2.39972G	-49.35	2.4G	-51.26	2.4858G	-48.09	23.38169G	-43.08	4
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42117G	6.17	-23.83	31.15M	-50.71	2.39972G	-25.48	2.4G	-27.62	2.51402G	-52.98	24.61577G	-42.44	1
2422MHz	Pass	2.42117G	6.17	-23.83	31.15M	-51.89	2.3996G	-26.15	2.4G	-25.96	2.49554G	-53.18	23.35372G	-42.05	2
2422MHz	Pass	2.42117G	6.17	-23.83	30.86M	-52.22	2.39804G	-29.91	2.4G	-31.29	2.51062G	-53.22	24.88501G	-42.12	3
2422MHz	Pass	2.42117G	6.17	-23.83	30.86M	-51.22	2.398G	-25.44	2.4G	-28.90	2.53338G	-53.16	15.25415G	-42.36	4
2437MHz	Pass	2.42117G	6.17	-23.83	31.15M	-48.99	2.39908G	-25.00	2.4G	-29.83	2.48674G	-47.68	23.37335G	-42.69	1
2437MHz	Pass	2.42117G	6.17	-23.83	31.15M	-50.88	2.39976G	-25.24	2.4G	-26.47	2.4861G	-48.35	23.55285G	-42.83	2
2437MHz	Pass	2.42117G	6.17	-23.83	30.86M	-48.64	2.39916G	-25.19	2.4G	-28.87	2.4877G	-48.73	15.20647G	-42.05	3
2437MHz	Pass	2.42117G	6.17	-23.83	30.86M	-51.28	2.3998G	-26.40	2.4G	-27.50	2.48606G	-49.28	15.2261G	-41.89	4
2452MHz	Pass	2.42117G	6.17	-23.83	30.86M	-49.36	2.39952G	-38.61	2.4G	-40.66	2.48434G	-45.25	23.27239G	-41.35	1
2452MHz	Pass	2.42117G	6.17	-23.83	30.86M	-49.65	2.39932G	-34.28	2.4G	-40.59	2.4865G	-44.38	23.4014G	-41.26	2
2452MHz	Pass	2.42117G	6.17	-23.83	30.86M	-51.54	2.39924G	-40.91	2.4G	-40.53	2.4865G	-47.52	15.20086G	-41.94	3
2452MHz	Pass	2.42117G	6.17	-23.83	30.86M	-51.33	2.3982G	-40.86	2.4G	-41.51	2.4843G	-46.74	24.05206G	-42.31	4

802.11ax HEW20_Nss4,(MCS0)_4TX **CSE NdB**

2412MHz

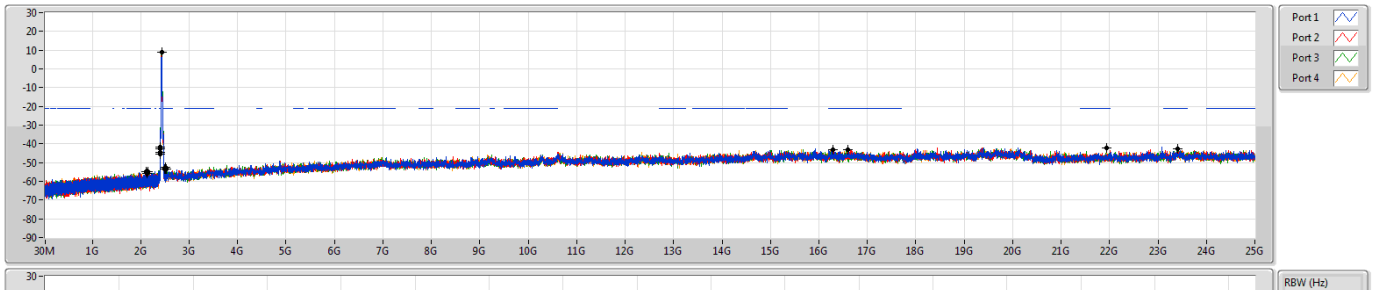


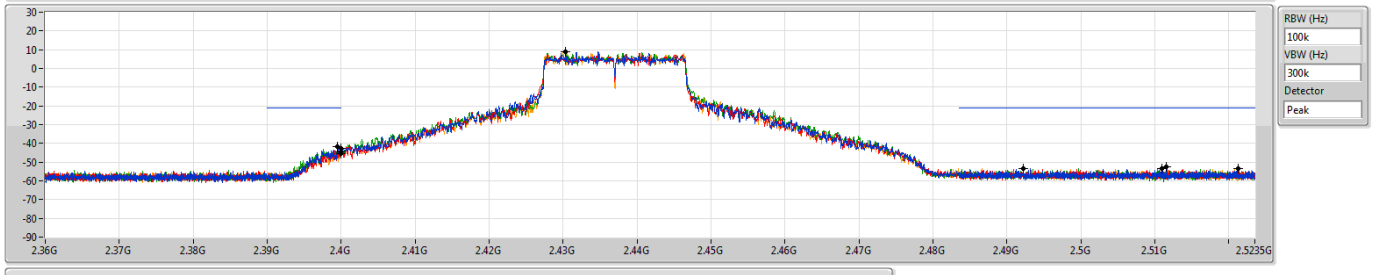


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43035G	8.77	-21.23	1.88963G	-54.91	2.39998G	-21.29	2.4G	-21.49	2.49808G	-53.52	14.66081G	-43.31	1
2.43035G	8.77	-21.23	2.19544G	-56.45	2.39998G	-24.15	2.4G	-23.23	2.50266G	-52.74	16.22574G	-41.61	2
2.43035G	8.77	-21.23	2.10923G	-55.06	2.39842G	-24.10	2.4G	-28.35	2.4868G	-53.40	16.47017G	-43.34	3
2.43035G	8.77	-21.23	2.09205G	-55.54	2.39924G	-27.76	2.4G	-29.40	2.51792G	-53.21	23.49969G	-42.77	4

802.11ax HEW20_Nss4,(MCS0)_4TX **CSE NdB**

2437MHz

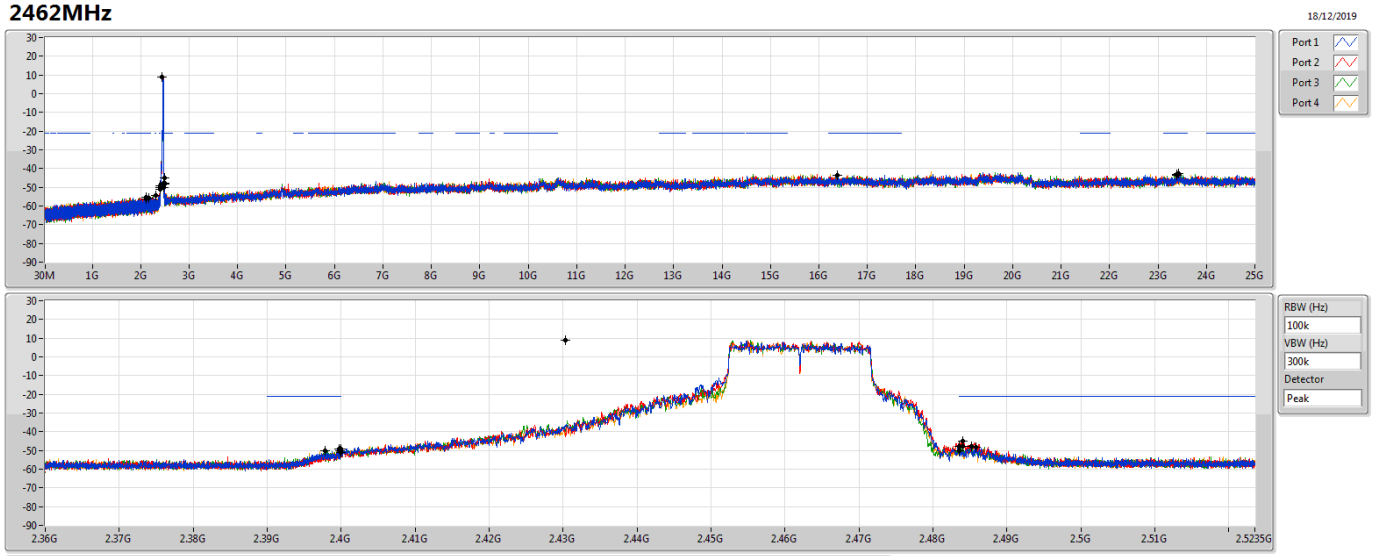




Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43035G	8.77	-21.23	2.11273G	-54.95	2.39954G	-41.75	2.4G	-44.67	2.49222G	-53.45	16.28755G	-42.97	1
2.43035G	8.77	-21.23	2.15321G	-55.07	2.39992G	-42.54	2.4G	-44.51	2.51154G	-52.72	16.5966G	-42.93	2
2.43035G	8.77	-21.23	2.15642G	-54.75	2.4G	-42.71	2.4G	-42.77	2.52126G	-53.47	23.41541G	-42.84	3
2.43035G	8.77	-21.23	2.12584G	-55.71	2.39998G	-42.77	2.4G	-45.37	2.51096G	-53.46	21.94882G	-42.38	4

802.11ax HEW20_Nss4,(MCS0)_4TX **CSE NdB**

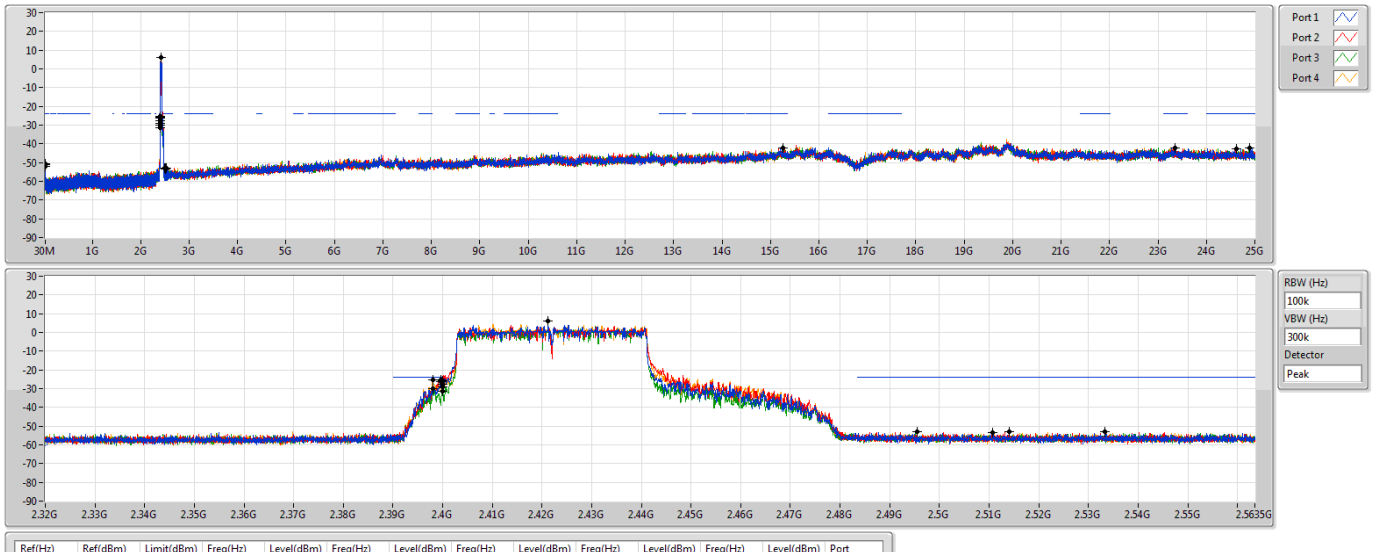
2462MHz



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
2.43035G	8.77	-21.23	2.30932G	-54.44	2.3999G	-49.35	2.4835G	-50.02	2.48516G	-47.99	16.37745G	-43.52	1
2.43035G	8.77	-21.23	2.15991G	-55.67	2.39988G	-50.38	2.4835G	-48.02	2.48396G	-45.10	23.39012G	-43.77	2
2.43035G	8.77	-21.23	2.10399G	-55.52	2.3978G	-50.36	2.4835G	-50.39	2.48398G	-48.04	23.42665G	-42.83	3
2.43035G	8.77	-21.23	2.10865G	-56.12	2.39972G	-49.35	2.4G	-51.26	2.4858G	-48.09	23.38169G	-43.08	4

802.11ax HEW40_Nss4,(MCS0)_4TX **CSE NdB**

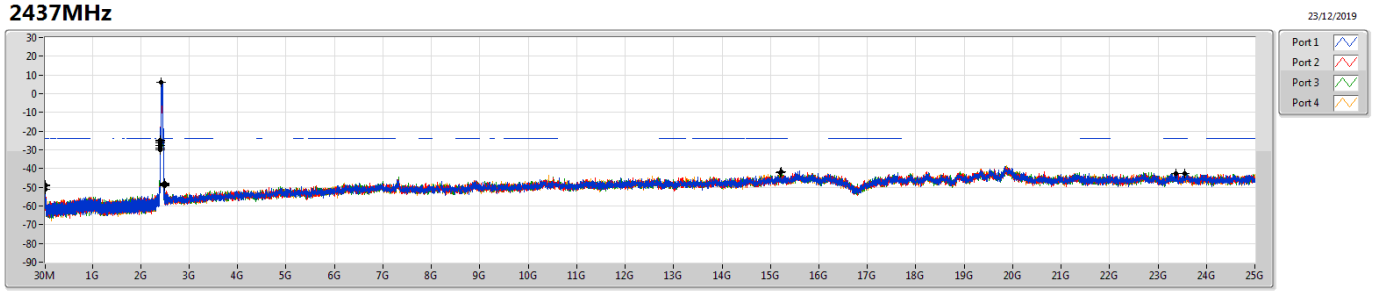
2422MHz

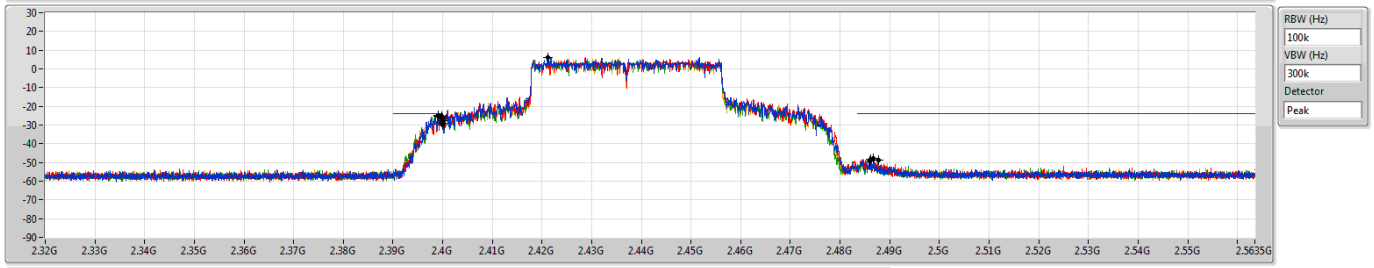


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42117G	6.17	-23.83	31.15M	-50.71	2.39972G	-25.48	2.4G	-27.62	2.51402G	-52.98	24.61577G	-42.44	1
2.42117G	6.17	-23.83	31.15M	-51.89	2.3996G	-26.15	2.4G	-25.96	2.49554G	-53.18	23.35372G	-42.05	2
2.42117G	6.17	-23.83	30.86M	-52.22	2.39804G	-29.91	2.4G	-31.29	2.51062G	-53.22	24.88501G	-42.12	3
2.42117G	6.17	-23.83	30.86M	-51.22	2.398G	-25.44	2.4G	-28.90	2.53338G	-53.16	15.25415G	-42.36	4

802.11ax HEW40_Nss4,(MCS0)_4TX **CSE NdB**

2437MHz

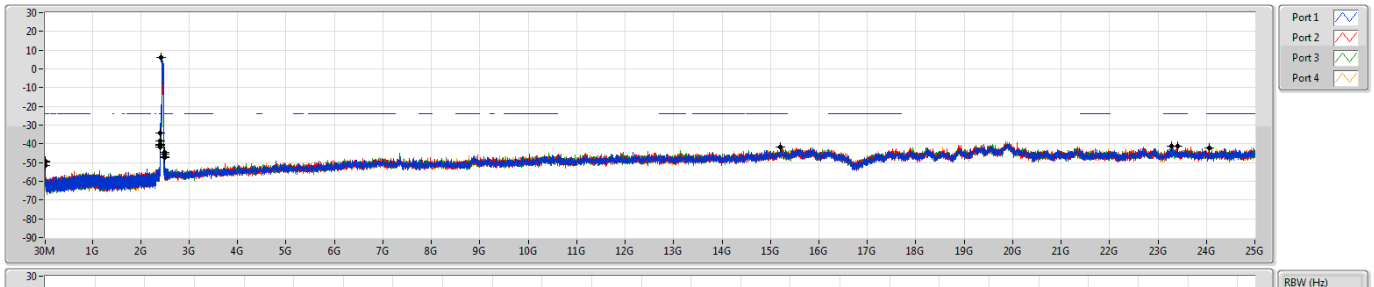


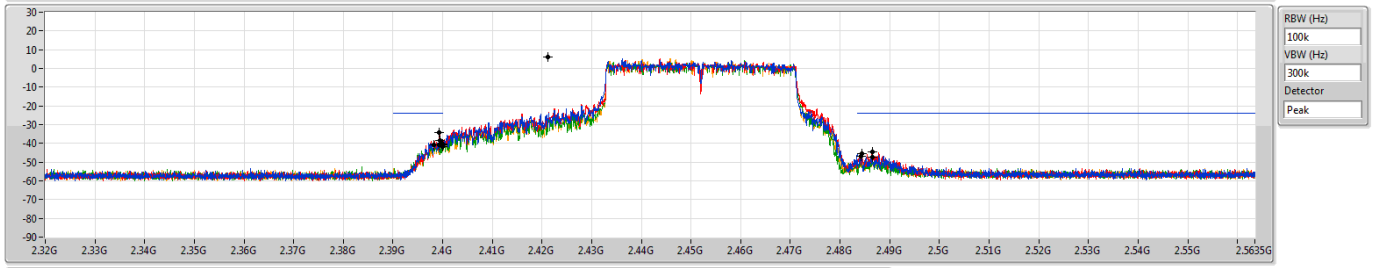


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42117G	6.17	-23.83	31.15M	-48.99	2.39908G	-25.00	2.4G	-29.83	2.48674G	-47.68	23.37335G	-42.69	1
2.42117G	6.17	-23.83	31.15M	-50.88	2.39976G	-25.24	2.4G	-26.47	2.4861G	-48.35	23.55285G	-42.83	2
2.42117G	6.17	-23.83	30.86M	-48.64	2.39916G	-25.19	2.4G	-28.87	2.4877G	-48.73	15.20647G	-42.05	3
2.42117G	6.17	-23.83	30.86M	-51.28	2.3998G	-26.40	2.4G	-27.50	2.48606G	-49.28	15.2261G	-41.89	4

802.11ax HEW40_Nss4,(MCS0)_4TX **CSE NdB**

2452MHz





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
2.42117G	6.17	-23.83	30.86M	-49.36	2.39952G	-38.61	2.4G	-40.66	2.48434G	-45.25	23.27239G	-41.35	1
2.42117G	6.17	-23.83	30.86M	-49.65	2.39932G	-34.28	2.4G	-40.59	2.4865G	-44.38	23.4014G	-41.26	2
2.42117G	6.17	-23.83	30.86M	-51.54	2.39924G	-40.91	2.4G	-40.53	2.4865G	-47.52	15.20086G	-41.94	3
2.42117G	6.17	-23.83	30.86M	-51.33	2.3982G	-40.86	2.4G	-41.51	2.4843G	-46.74	24.05206G	-42.31	4

Summary

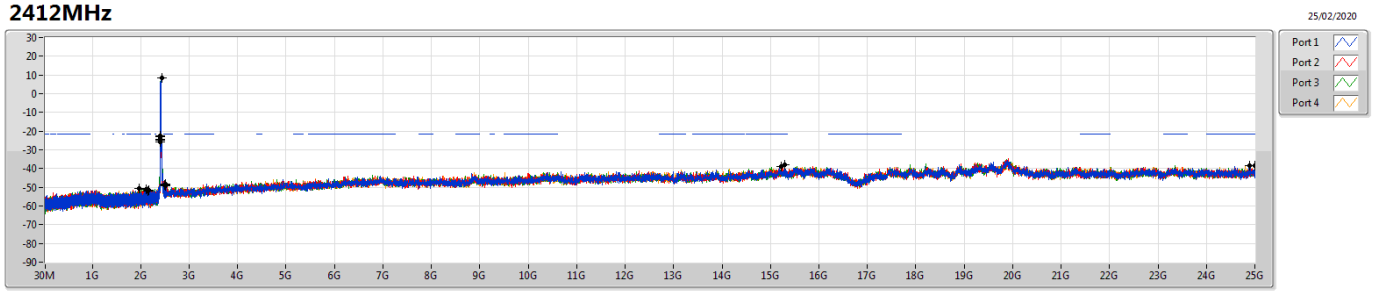
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	Pass	2.44618G	8.53	-21.47	2.1471G	-51.92	2.39982G	-22.42	2.4G	-23.16	2.49938G	-48.77	15.22272G	-39.03	1
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	2.444G	5.48	-24.52	2.16543G	-51.61	2.4G	-27.12	2.4G	-26.69	2.55594G	-49.83	24.28484G	-38.78	1

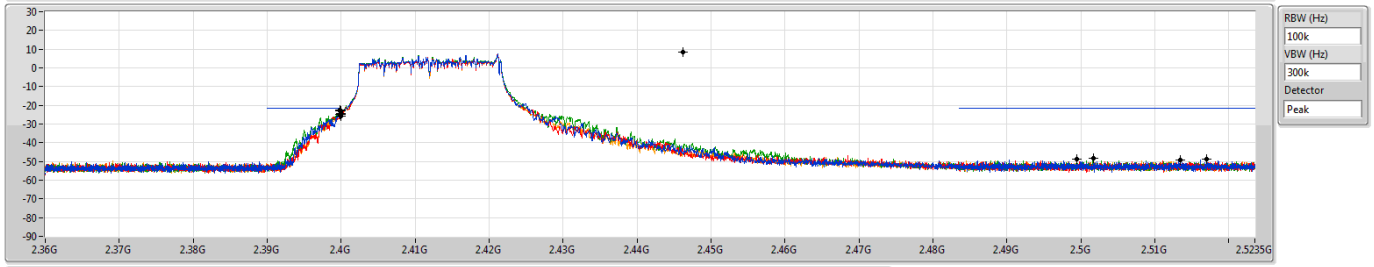
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44618G	8.53	-21.47	2.1471G	-51.92	2.39982G	-22.42	2.4G	-23.16	2.49938G	-48.77	15.22272G	-39.03	1
2412MHz	Pass	2.44618G	8.53	-21.47	2.16341G	-51.57	2.39996G	-24.49	2.4G	-25.00	2.51694G	-48.88	24.99438G	-38.60	2
2412MHz	Pass	2.44618G	8.53	-21.47	1.97351G	-50.67	2.3998G	-23.03	2.4G	-24.70	2.51338G	-49.10	24.88481G	-38.52	3
2412MHz	Pass	2.44618G	8.53	-21.47	2.11186G	-51.18	2.39978G	-24.72	2.4G	-25.93	2.5017G	-48.23	15.30139G	-38.13	4
2437MHz	Pass	2.44618G	8.53	-21.47	1.9208G	-51.00	2.39848G	-45.88	2.4G	-48.08	2.50656G	-49.28	16.2735G	-38.79	1
2437MHz	Pass	2.44618G	8.53	-21.47	810.26M	-51.23	2.39914G	-47.63	2.4G	-50.36	2.51204G	-48.92	23.56431G	-38.77	2
2437MHz	Pass	2.44618G	8.53	-21.47	2.30961G	-51.99	2.3999G	-45.35	2.4G	-47.80	2.5221G	-49.45	24.02508G	-39.32	3
2437MHz	Pass	2.44618G	8.53	-21.47	1.98837G	-51.53	2.39868G	-46.96	2.4G	-49.88	2.49974G	-49.58	17.57995G	-38.09	4
2462MHz	Pass	2.44618G	8.53	-21.47	2.1238G	-51.78	2.39928G	-49.49	2.4835G	-50.69	2.52106G	-48.23	23.59522G	-39.40	1
2462MHz	Pass	2.44618G	8.53	-21.47	858.9M	-51.72	2.39314G	-50.09	2.4835G	-51.49	2.50052G	-48.99	17.64176G	-39.09	2
2462MHz	Pass	2.44618G	8.53	-21.47	1.99477G	-51.05	2.3982G	-49.13	2.4G	-51.53	2.51428G	-48.87	15.23677G	-38.24	3
2462MHz	Pass	2.44618G	8.53	-21.47	2.07545G	-50.85	2.3962G	-49.97	2.4835G	-51.56	2.48766G	-49.09	24.65442G	-38.43	4
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.444G	5.48	-24.52	2.16543G	-51.61	2.4G	-27.12	2.4G	-26.69	2.55594G	-49.83	24.28484G	-38.78	1
2422MHz	Pass	2.444G	5.48	-24.52	2.3034G	-51.49	2.39992G	-29.70	2.4G	-29.15	2.50478G	-49.20	24.04645G	-39.43	2
2422MHz	Pass	2.444G	5.48	-24.52	2.30254G	-50.42	2.39988G	-27.47	2.4G	-27.27	2.48502G	-49.31	17.6212G	-38.51	3
2422MHz	Pass	2.444G	5.48	-24.52	2.30512G	-50.83	2.39992G	-29.89	2.4G	-29.78	2.52322G	-49.34	15.17562G	-38.09	4
2437MHz	Pass	2.444G	5.48	-24.52	1.92097G	-51.56	2.4G	-27.01	2.4G	-26.88	2.48978G	-49.03	23.2808G	-38.97	1
2437MHz	Pass	2.444G	5.48	-24.52	2.11648G	-50.99	2.39996G	-28.69	2.4G	-28.87	2.48586G	-48.96	15.31585G	-38.65	2
2437MHz	Pass	2.444G	5.48	-24.52	691.81M	-51.68	2.4G	-27.79	2.4G	-28.14	2.53902G	-48.25	23.54163G	-39.25	3
2437MHz	Pass	2.444G	5.48	-24.52	889.32M	-51.43	2.39996G	-28.47	2.4G	-29.47	2.49606G	-49.50	24.55127G	-39.32	4
2452MHz	Pass	2.444G	5.48	-24.52	2.00198G	-51.37	2.3994G	-40.40	2.4G	-44.56	2.4885G	-49.05	23.278G	-39.08	1
2452MHz	Pass	2.444G	5.48	-24.52	929.11M	-51.16	2.3978G	-44.81	2.4G	-44.41	2.48538G	-48.73	23.2163G	-38.85	2
2452MHz	Pass	2.444G	5.48	-24.52	1.98452G	-51.84	2.39948G	-40.64	2.4G	-43.66	2.48438G	-48.66	23.24434G	-39.41	3
2452MHz	Pass	2.444G	5.48	-24.52	1.77097G	-51.90	2.39744G	-44.18	2.4G	-45.84	2.48578G	-49.54	17.60717G	-39.26	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX **CSE NdB**

2412MHz

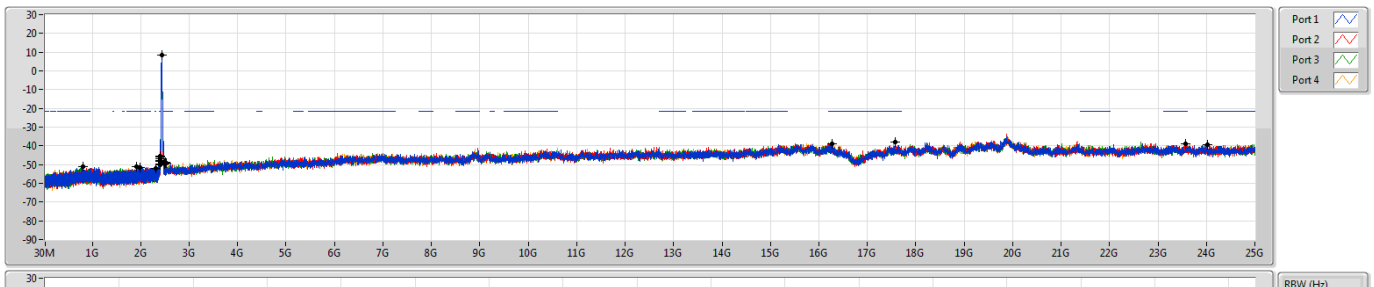


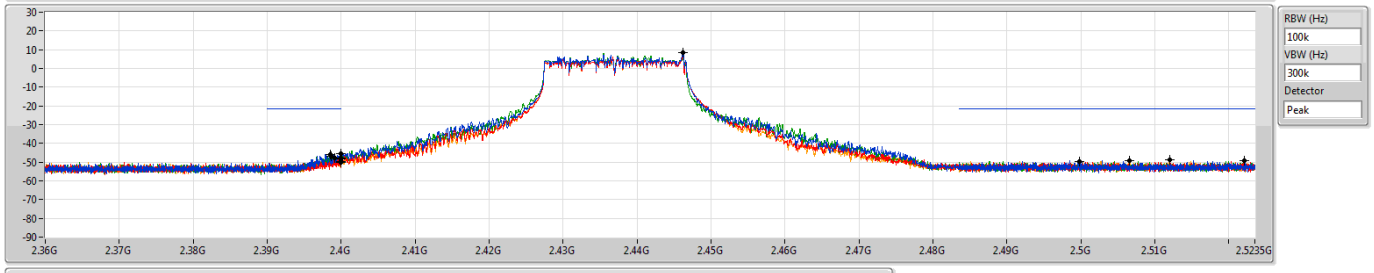


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44618G	8.53	-21.47	2.1471G	-51.92	2.39982G	-22.42	2.4G	-23.16	2.49938G	-48.77	15.22272G	-39.03	1
2.44618G	8.53	-21.47	2.16341G	-51.57	2.39996G	-24.49	2.4G	-25.00	2.51694G	-48.88	24.99438G	-38.60	2
2.44618G	8.53	-21.47	1.97351G	-50.67	2.3998G	-23.03	2.4G	-24.70	2.51338G	-49.10	24.88481G	-38.52	3
2.44618G	8.53	-21.47	2.11186G	-51.18	2.39978G	-24.72	2.4G	-25.93	2.5017G	-48.23	15.30139G	-38.13	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX **CSE NdB**

2437MHz

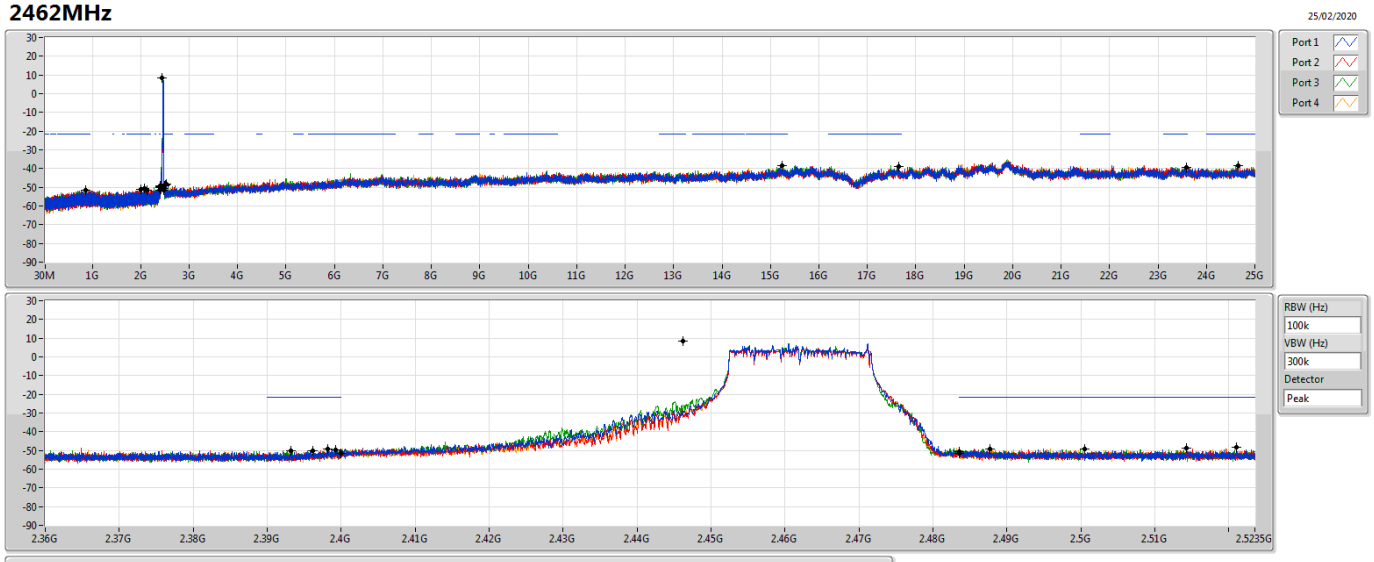




Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44618G	8.53	-21.47	1.9208G	-51.00	2.39848G	-45.88	2.4G	-48.08	2.50656G	-49.28	16.2735G	-38.79	1
2.44618G	8.53	-21.47	810.26M	-51.23	2.39914G	-47.63	2.4G	-50.36	2.51204G	-48.92	23.56431G	-38.77	2
2.44618G	8.53	-21.47	2.30961G	-51.99	2.3999G	-45.35	2.4G	-47.80	2.5221G	-49.45	24.02508G	-39.32	3
2.44618G	8.53	-21.47	1.98837G	-51.53	2.39868G	-46.96	2.4G	-49.88	2.49974G	-49.58	17.57995G	-38.09	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX **CSE NdB**

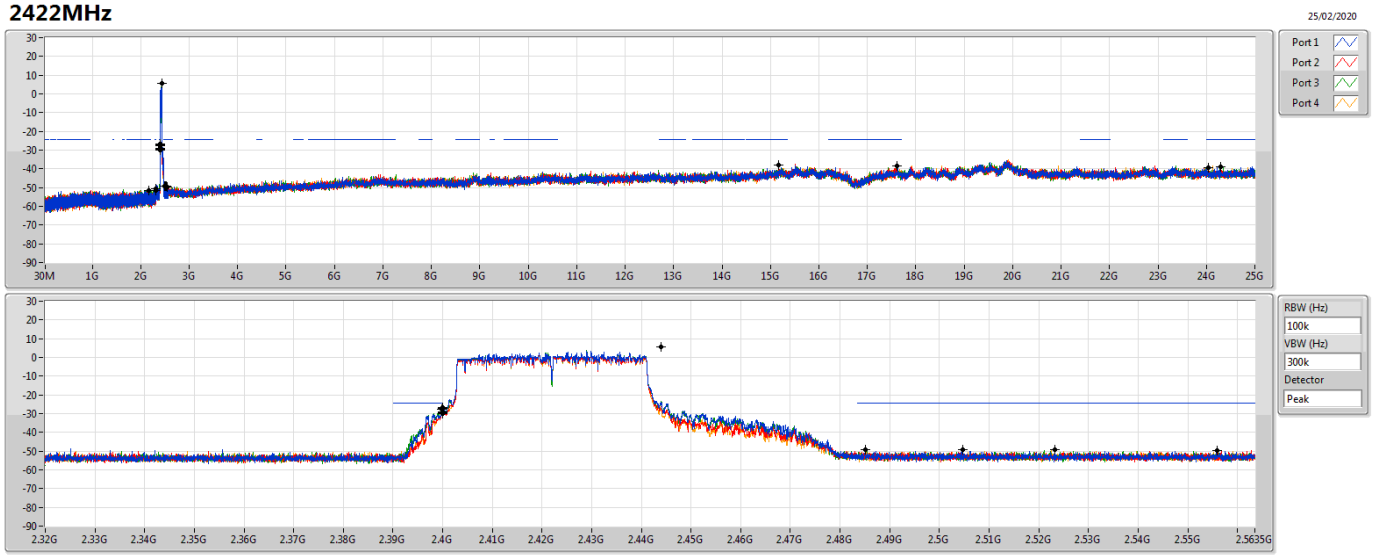
2462MHz



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
2.44618G	8.53	-21.47	2.1238G	-51.78	2.39928G	-49.49	2.4835G	-50.69	2.52106G	-48.23	23.59522G	-39.40	1
2.44618G	8.53	-21.47	858.9M	-51.72	2.39314G	-50.09	2.4835G	-51.49	2.50052G	-48.99	17.64176G	-39.09	2
2.44618G	8.53	-21.47	1.99477G	-51.05	2.3982G	-49.13	2.4G	-51.53	2.51428G	-48.87	15.23677G	-38.24	3
2.44618G	8.53	-21.47	2.07545G	-50.85	2.3962G	-49.97	2.4835G	-51.56	2.48766G	-49.09	24.65442G	-38.43	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX **CSE NdB**

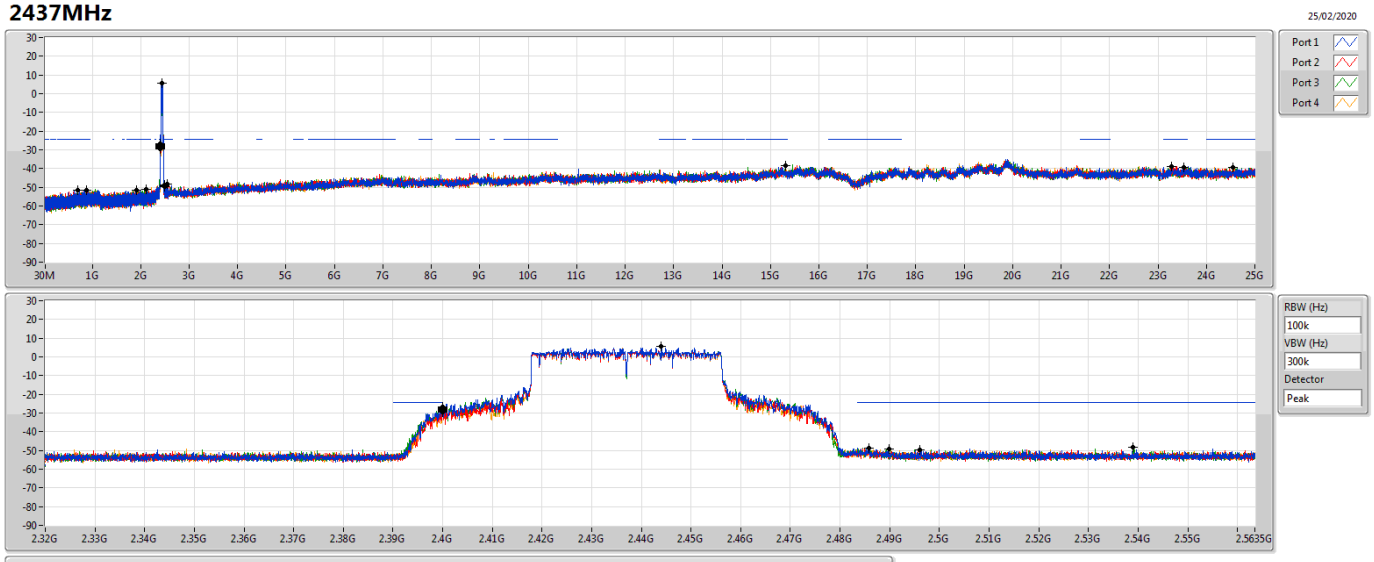
2422MHz



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
2.444G	5.48	-24.52	2.16543G	-51.61	2.4G	-27.12	2.4G	-26.69	2.55594G	-49.83	24.28484G	-38.78	1
2.444G	5.48	-24.52	2.3034G	-51.49	2.39992G	-29.70	2.4G	-29.15	2.50478G	-49.20	24.04645G	-39.43	2
2.444G	5.48	-24.52	2.30254G	-50.42	2.39988G	-27.47	2.4G	-27.27	2.48502G	-49.31	17.6212G	-38.51	3
2.444G	5.48	-24.52	2.30512G	-50.83	2.39992G	-29.89	2.4G	-29.78	2.52322G	-49.34	15.17562G	-38.09	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX **CSE NdB**

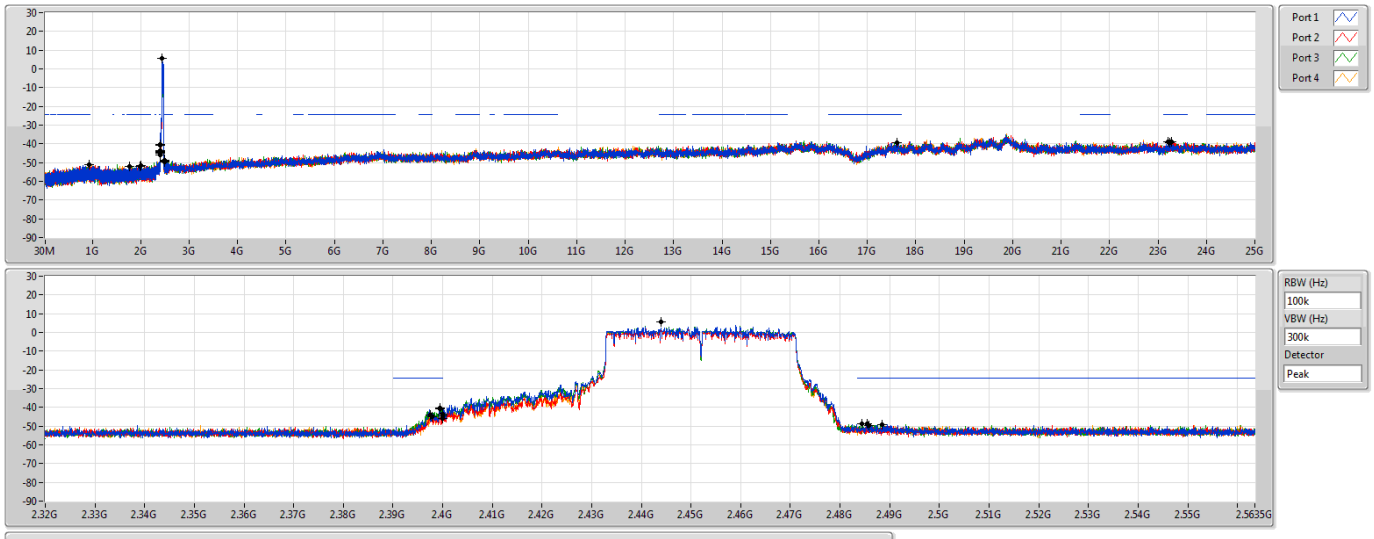
2437MHz



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
2.444G	5.48	-24.52	1.92097G	-51.56	2.4G	-27.01	2.4G	-26.88	2.48978G	-49.03	23.2808G	-38.97	1
2.444G	5.48	-24.52	2.11648G	-50.99	2.39996G	-28.69	2.4G	-28.87	2.48586G	-48.96	15.31585G	-38.65	2
2.444G	5.48	-24.52	691.81M	-51.68	2.4G	-27.79	2.4G	-28.14	2.53902G	-48.25	23.54163G	-39.25	3
2.444G	5.48	-24.52	889.32M	-51.43	2.39996G	-28.47	2.4G	-29.47	2.49606G	-49.50	24.55127G	-39.32	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX **CSE NdB**

2452MHz



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
2.444G	5.48	-24.52	2.00198G	-51.37	2.3994G	-40.40	2.4G	-44.56	2.4885G	-49.05	23.278G	-39.08	1
2.444G	5.48	-24.52	929.11M	-51.16	2.3978G	-44.81	2.4G	-44.41	2.48538G	-48.73	23.2163G	-38.85	2
2.444G	5.48	-24.52	1.98452G	-51.84	2.39948G	-40.64	2.4G	-43.66	2.48438G	-48.66	23.24434G	-39.41	3
2.444G	5.48	-24.52	1.77097G	-51.90	2.39744G	-44.18	2.4G	-45.84	2.48578G	-49.54	17.60717G	-39.26	4

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss4,(MCS0)_4TX	Pass	QP	30M	36.37	40.00	-3.63	3	Vertical	3	1.13	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	92.08M	29.49	43.50	-14.01	3	Vertical	360	1.00	-
2437MHz	Pass	PK	258.92M	31.20	46.00	-14.80	3	Vertical	360	1.00	-
2437MHz	Pass	PK	365.62M	32.70	46.00	-13.30	3	Vertical	360	1.00	-
2437MHz	Pass	PK	625.58M	40.48	46.00	-5.52	3	Vertical	360	1.00	-
2437MHz	Pass	PK	848.68M	40.08	46.00	-5.92	3	Vertical	360	1.00	-
2437MHz	Pass	QP	30M	36.37	40.00	-3.63	3	Vertical	3	1.13	-
2437MHz	Pass	PK	30M	31.03	40.00	-8.97	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	138.64M	26.40	43.50	-17.10	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	251.16M	31.81	46.00	-14.19	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	371.44M	34.85	46.00	-11.15	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	493.66M	32.07	46.00	-13.93	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	850.62M	42.34	46.00	-3.66	3	Horizontal	0	1.00	-

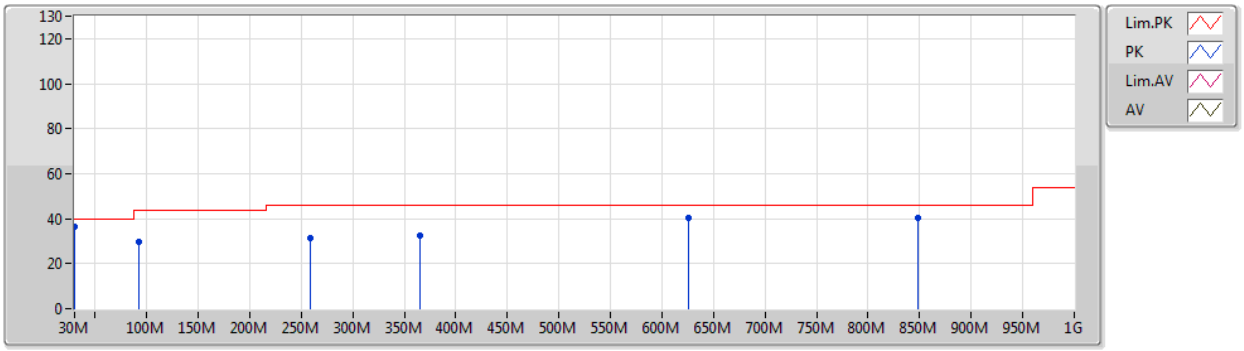
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2437MHz_Adapter

30/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	92.08M	29.49	43.50	-14.01	-11.45	3	Vertical	360	1.00	-	40.94	14.50	1.45	27.40
PK	258.92M	31.20	46.00	-14.80	-5.65	3	Vertical	360	1.00	-	36.85	18.56	2.52	26.73
PK	365.62M	32.70	46.00	-13.30	-4.18	3	Vertical	360	1.00	-	36.88	19.86	3.03	27.07
PK	625.58M	40.48	46.00	-5.52	0.16	3	Vertical	360	1.00	-	40.32	24.12	4.13	28.09
PK	848.68M	40.08	46.00	-5.92	2.43	3	Vertical	360	1.00	-	37.65	25.30	4.87	27.74
QP	30M	36.37	40.00	-3.63	-5.45	3	Vertical	3	1.13	-	41.82	21.32	0.80	27.57

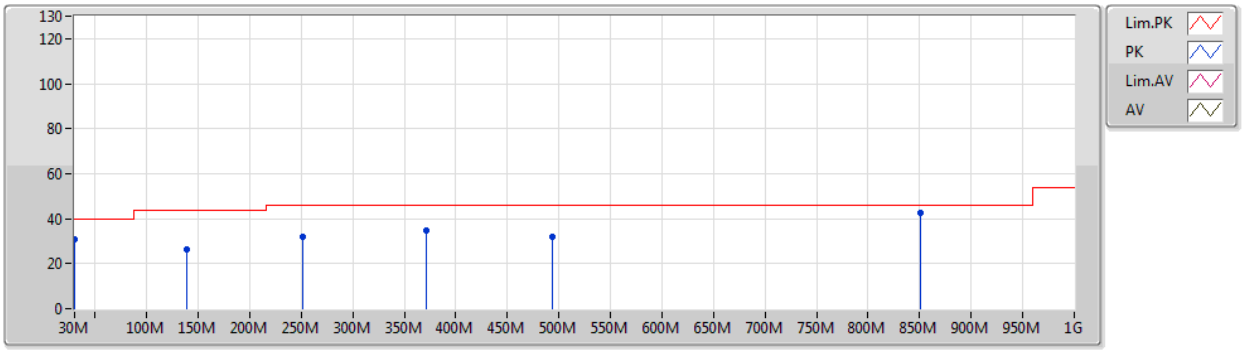
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ax HEW40_Nss4,(MCS0)_4TX

2437MHz_Adapter

30/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	31.03	40.00	-8.97	-5.45	3	Horizontal	0	1.00	-	36.48	21.32	0.80	27.57
PK	138.64M	26.40	43.50	-17.10	-9.17	3	Horizontal	0	1.00	-	35.57	16.26	1.81	27.24
PK	251.16M	31.81	46.00	-14.19	-6.63	3	Horizontal	0	1.00	-	38.44	17.62	2.49	26.74
PK	371.44M	34.85	46.00	-11.15	-4.14	3	Horizontal	0	1.00	-	38.99	19.91	3.06	27.11
PK	493.66M	32.07	46.00	-13.93	-1.53	3	Horizontal	0	1.00	-	33.60	22.70	3.58	27.81
PK	850.62M	42.34	46.00	-3.66	2.45	3	Horizontal	0	1.00	-	39.89	25.32	4.87	27.74

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	PK	31.94M	36.82	40.00	-3.18	3	Vertical	360	1.00	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	31.94M	36.82	40.00	-3.18	3	Vertical	360	1.00	-
2437MHz	Pass	PK	159.98M	36.31	43.50	-7.19	3	Vertical	360	1.00	-
2437MHz	Pass	PK	189.08M	34.04	43.50	-9.46	3	Vertical	360	1.00	-
2437MHz	Pass	PK	499.48M	36.60	46.00	-9.40	3	Vertical	360	1.00	-
2437MHz	Pass	PK	641.1M	40.08	46.00	-5.92	3	Vertical	360	1.00	-
2437MHz	Pass	PK	844.8M	40.79	46.00	-5.21	3	Vertical	360	1.00	-
2437MHz	Pass	PK	39.7M	36.32	40.00	-3.68	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	163.86M	36.99	43.50	-6.51	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	189.08M	35.30	43.50	-8.20	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	363.68M	35.69	46.00	-10.31	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	641.1M	38.27	46.00	-7.73	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	833.16M	41.71	46.00	-4.29	3	Horizontal	0	1.00	-

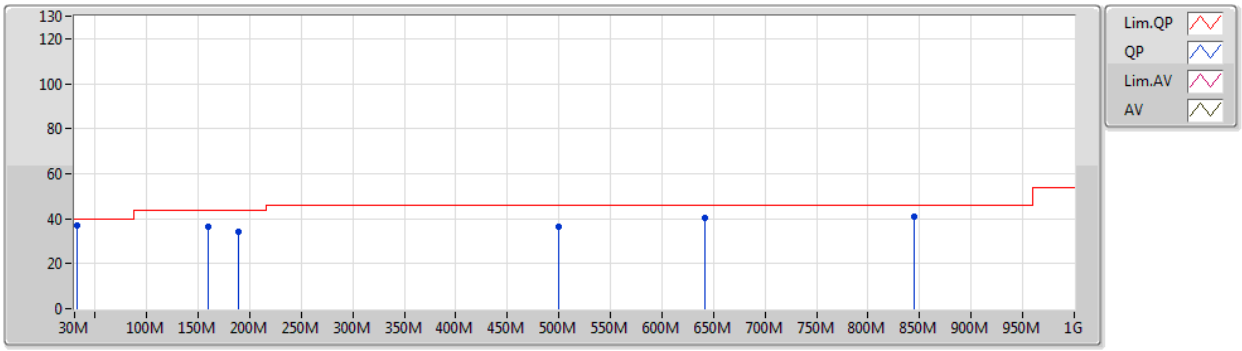
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_Adapter

23/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	31.94M	36.82	40.00	-3.18	-3.37	3	Vertical	360	1.00	-	40.19	23.37	0.83	27.57
PK	159.98M	36.31	43.50	-7.19	-8.76	3	Vertical	360	1.00	-	45.07	16.43	1.95	27.14
PK	189.08M	34.04	43.50	-9.46	-10.03	3	Vertical	360	1.00	-	44.07	14.81	2.15	26.99
PK	499.48M	36.60	46.00	-9.40	-0.24	3	Vertical	360	1.00	-	36.84	23.97	3.61	27.82
PK	641.1M	40.08	46.00	-5.92	2.52	3	Vertical	360	1.00	-	37.56	26.47	4.16	28.11
PK	844.8M	40.79	46.00	-5.21	6.25	3	Vertical	360	1.00	-	34.54	29.14	4.86	27.75

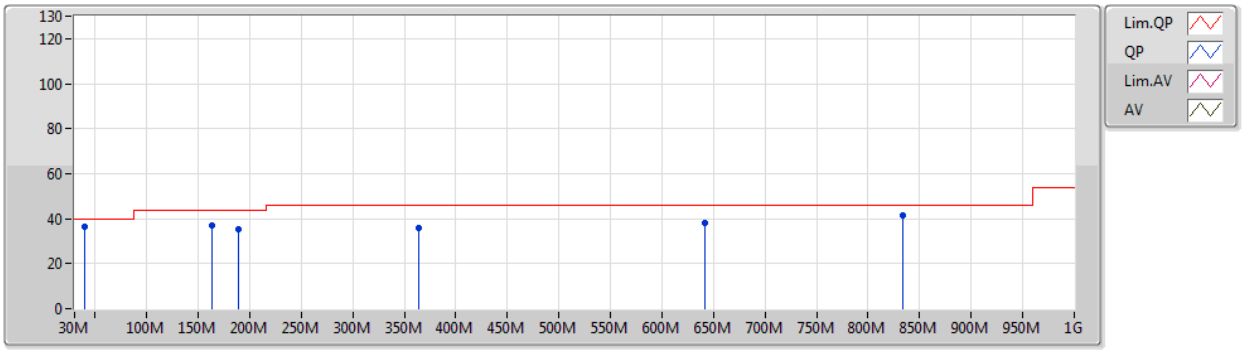
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_Adapter

23/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	39.7M	36.32	40.00	-3.68	-7.25	3	Horizontal	0	1.00	-	43.57	19.36	0.93	27.54
PK	163.86M	36.99	43.50	-6.51	-9.04	3	Horizontal	0	1.00	-	46.03	16.10	1.98	27.12
PK	189.08M	35.30	43.50	-8.20	-10.03	3	Horizontal	0	1.00	-	45.33	14.81	2.15	26.99
PK	363.68M	35.69	46.00	-10.31	-3.34	3	Horizontal	0	1.00	-	39.03	20.70	3.02	27.06
PK	641.1M	38.27	46.00	-7.73	2.52	3	Horizontal	0	1.00	-	35.75	26.47	4.16	28.11
PK	833.16M	41.71	46.00	-4.29	5.96	3	Horizontal	0	1.00	-	35.75	28.91	4.83	27.78

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX(Port4)	Pass	AV	2.4888G	53.88	54.00	-0.12	3	Vertical	10	1.40	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX(Port4)	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3862G	48.32	54.00	-5.68	3	Vertical	357	1.24	-
2412MHz	Pass	AV	2.4102G	115.07	Inf	-Inf	3	Vertical	357	1.24	-
2412MHz	Pass	PK	2.3862G	58.68	74.00	-15.32	3	Vertical	357	1.24	-
2412MHz	Pass	PK	2.412G	122.85	Inf	-Inf	3	Vertical	357	1.24	-
2412MHz	Pass	AV	2.3862G	47.33	54.00	-6.67	3	Horizontal	265	1.82	-
2412MHz	Pass	AV	2.4138G	108.51	Inf	-Inf	3	Horizontal	265	1.82	-
2412MHz	Pass	PK	2.387G	58.09	74.00	-15.91	3	Horizontal	265	1.82	-
2412MHz	Pass	PK	2.412G	116.48	Inf	-Inf	3	Horizontal	265	1.82	-
2412MHz	Pass	AV	4.824G	53.52	54.00	-0.48	3	Vertical	51	1.41	-
2412MHz	Pass	PK	4.824G	56.00	74.00	-18.00	3	Vertical	51	1.41	-
2412MHz	Pass	AV	4.824G	50.39	54.00	-3.61	3	Horizontal	247	1.54	-
2412MHz	Pass	PK	4.82388G	53.37	74.00	-20.63	3	Horizontal	247	1.54	-
2437MHz	Pass	AV	2.3898G	45.28	54.00	-8.72	3	Vertical	354	1.20	-
2437MHz	Pass	AV	2.4354G	114.31	Inf	-Inf	3	Vertical	354	1.20	-
2437MHz	Pass	AV	2.4842G	45.74	54.00	-8.26	3	Vertical	354	1.20	-
2437MHz	Pass	PK	2.3722G	57.19	74.00	-16.81	3	Vertical	354	1.20	-
2437MHz	Pass	PK	2.437G	122.11	Inf	-Inf	3	Vertical	354	1.20	-
2437MHz	Pass	PK	2.4846G	56.58	74.00	-17.42	3	Vertical	354	1.20	-
2437MHz	Pass	AV	2.3898G	45.19	54.00	-8.81	3	Horizontal	266	2.06	-
2437MHz	Pass	AV	2.4354G	109.03	Inf	-Inf	3	Horizontal	266	2.06	-
2437MHz	Pass	AV	2.4842G	44.83	54.00	-9.17	3	Horizontal	266	2.06	-
2437MHz	Pass	PK	2.3554G	56.62	74.00	-17.38	3	Horizontal	266	2.06	-
2437MHz	Pass	PK	2.437G	117.06	Inf	-Inf	3	Horizontal	266	2.06	-
2437MHz	Pass	PK	2.4918G	56.80	74.00	-17.20	3	Horizontal	266	2.06	-
2437MHz	Pass	AV	4.87406G	39.42	54.00	-14.58	3	Vertical	21	1.84	-
2437MHz	Pass	AV	7.31262G	38.02	54.00	-15.98	3	Vertical	182	1.47	-
2437MHz	Pass	PK	4.87394G	46.97	74.00	-27.03	3	Vertical	21	1.84	-
2437MHz	Pass	PK	7.31304G	51.56	74.00	-22.44	3	Vertical	182	1.47	-
2437MHz	Pass	AV	4.87406G	40.57	54.00	-13.43	3	Horizontal	329	1.73	-
2437MHz	Pass	AV	7.31262G	40.40	54.00	-13.60	3	Horizontal	216	1.43	-
2437MHz	Pass	PK	4.87412G	47.83	74.00	-26.17	3	Horizontal	329	1.73	-
2437MHz	Pass	PK	7.31184G	52.39	74.00	-21.61	3	Horizontal	216	1.43	-
2462MHz	Pass	AV	2.4602G	114.76	Inf	-Inf	3	Vertical	10	1.40	-
2462MHz	Pass	AV	2.4888G	53.88	54.00	-0.12	3	Vertical	10	1.40	-
2462MHz	Pass	PK	2.4622G	122.58	Inf	-Inf	3	Vertical	10	1.40	-
2462MHz	Pass	PK	2.4882G	61.86	74.00	-12.14	3	Vertical	10	1.40	-
2462MHz	Pass	AV	2.4602G	108.60	Inf	-Inf	3	Horizontal	268	1.81	-
2462MHz	Pass	AV	2.4835G	48.39	54.00	-5.61	3	Horizontal	268	1.81	-
2462MHz	Pass	PK	2.4618G	116.84	Inf	-Inf	3	Horizontal	268	1.81	-
2462MHz	Pass	PK	2.4838G	57.89	74.00	-16.11	3	Horizontal	268	1.81	-
2462MHz	Pass	AV	4.924G	47.10	54.00	-6.90	3	Vertical	46	1.75	-
2462MHz	Pass	AV	7.3882G	37.39	54.00	-16.61	3	Vertical	244	1.50	-
2462MHz	Pass	PK	4.92394G	51.23	74.00	-22.77	3	Vertical	46	1.75	-
2462MHz	Pass	PK	7.3743G	50.73	74.00	-23.27	3	Vertical	244	1.50	-
2462MHz	Pass	AV	4.92406G	43.60	54.00	-10.40	3	Horizontal	250	1.78	-
2462MHz	Pass	AV	7.3875G	38.43	54.00	-15.57	3	Horizontal	216	1.62	-
2462MHz	Pass	PK	4.92394G	49.14	74.00	-24.86	3	Horizontal	250	1.78	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

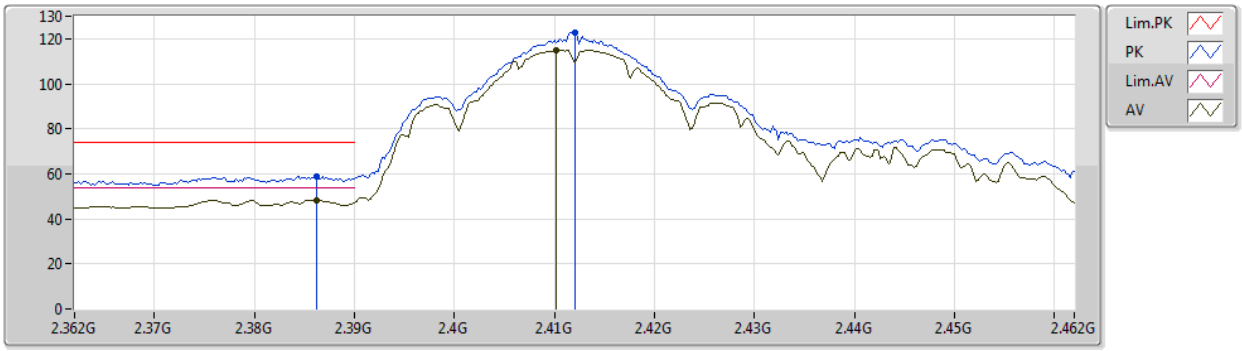
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	7.3876G	51.67	74.00	-22.33	3	Horizontal	216	1.62	-

Remark :
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3862G	48.32	54.00	-5.68	31.55	3	Vertical	357	1.24	-	16.77	27.56	3.99	-
AV	2.4102G	115.07	Inf	-Inf	31.50	3	Vertical	357	1.24	-	83.57	27.48	4.02	-
PK	2.3862G	58.68	74.00	-15.32	31.55	3	Vertical	357	1.24	-	27.13	27.56	3.99	-
PK	2.412G	122.85	Inf	-Inf	31.50	3	Vertical	357	1.24	-	91.35	27.48	4.02	-

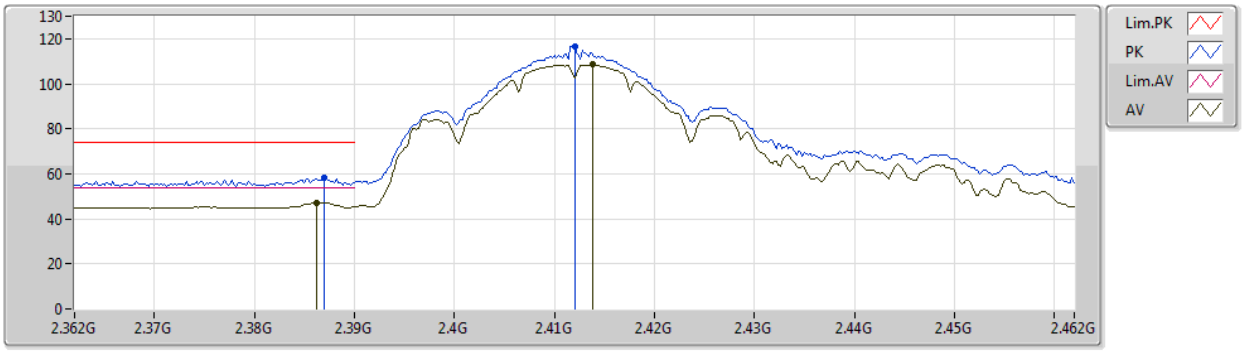
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3862G	47.33	54.00	-6.67	31.55	3	Horizontal	265	1.82	-	15.78	27.56	3.99	-
AV	2.4138G	108.51	Inf	-Inf	31.49	3	Horizontal	265	1.82	-	77.02	27.47	4.02	-
PK	2.387G	58.09	74.00	-15.91	31.54	3	Horizontal	265	1.82	-	26.55	27.55	3.99	-
PK	2.412G	116.48	Inf	-Inf	31.50	3	Horizontal	265	1.82	-	84.98	27.48	4.02	-

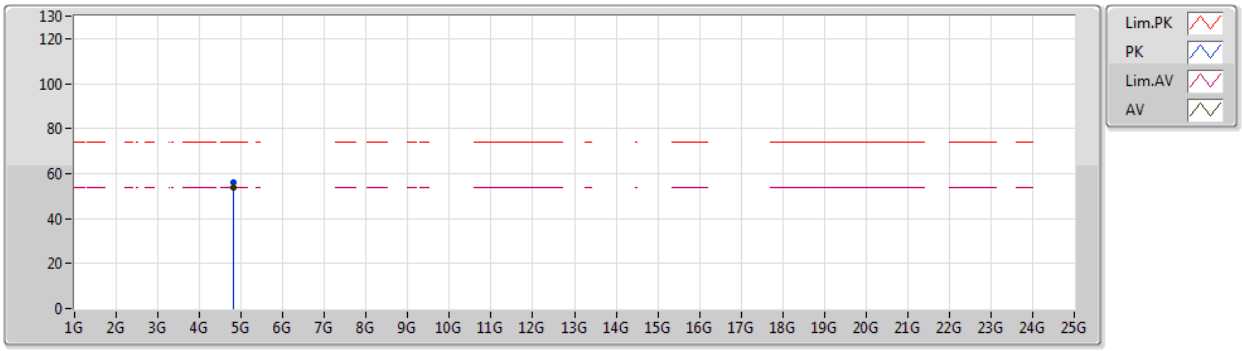
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.824G	53.52	54.00	-0.48	7.51	3	Vertical	51	1.41	-	46.01	31.12	5.79	29.40
PK	4.824G	56.00	74.00	-18.00	7.51	3	Vertical	51	1.41	-	48.49	31.12	5.79	29.40

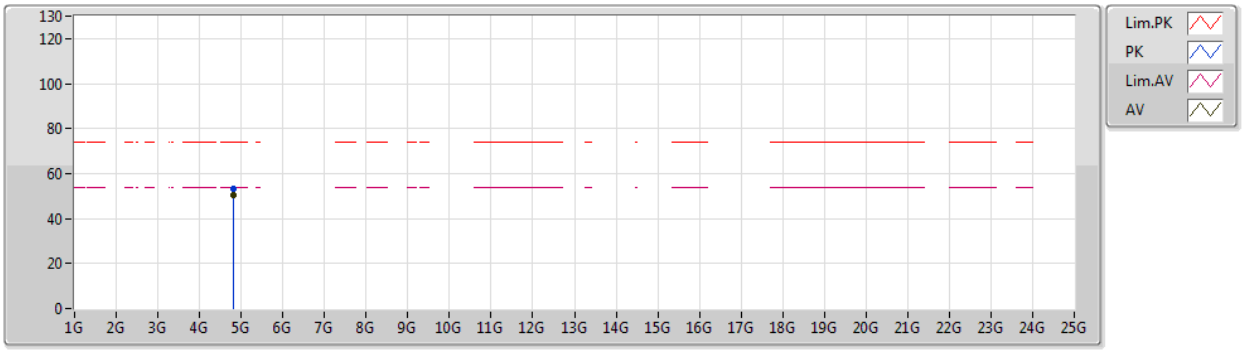
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.824G	50.39	54.00	-3.61	7.51	3	Horizontal	247	1.54	-	42.88	31.12	5.79	29.40
PK	4.82388G	53.37	74.00	-20.63	7.51	3	Horizontal	247	1.54	-	45.86	31.12	5.79	29.40

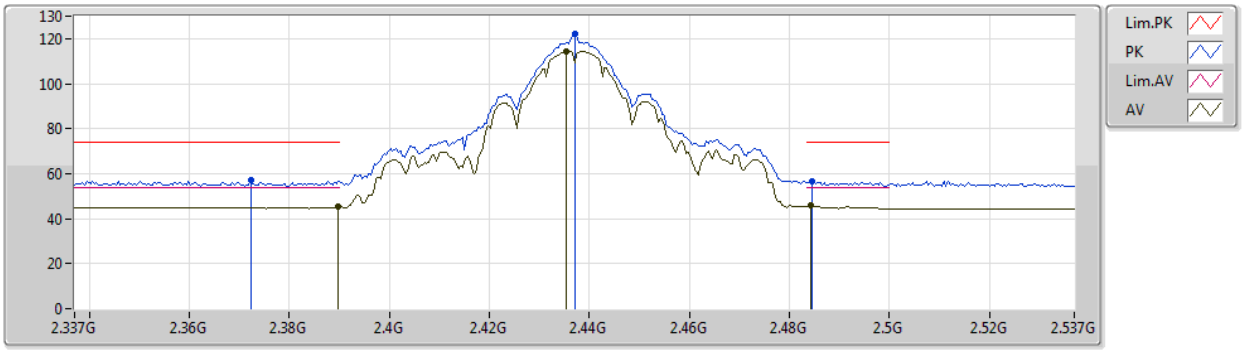
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	45.28	54.00	-8.72	31.54	3	Vertical	354	1.20	-	13.74	27.54	4.00	-
AV	2.4354G	114.31	Inf	-Inf	31.47	3	Vertical	354	1.20	-	82.84	27.43	4.04	-
AV	2.4842G	45.74	54.00	-8.26	31.42	3	Vertical	354	1.20	-	14.32	27.33	4.09	-
PK	2.3722G	57.19	74.00	-16.81	31.59	3	Vertical	354	1.20	-	25.60	27.61	3.98	-
PK	2.437G	122.11	Inf	-Inf	31.47	3	Vertical	354	1.20	-	90.64	27.43	4.04	-
PK	2.4846G	56.58	74.00	-17.42	31.42	3	Vertical	354	1.20	-	25.16	27.33	4.09	-

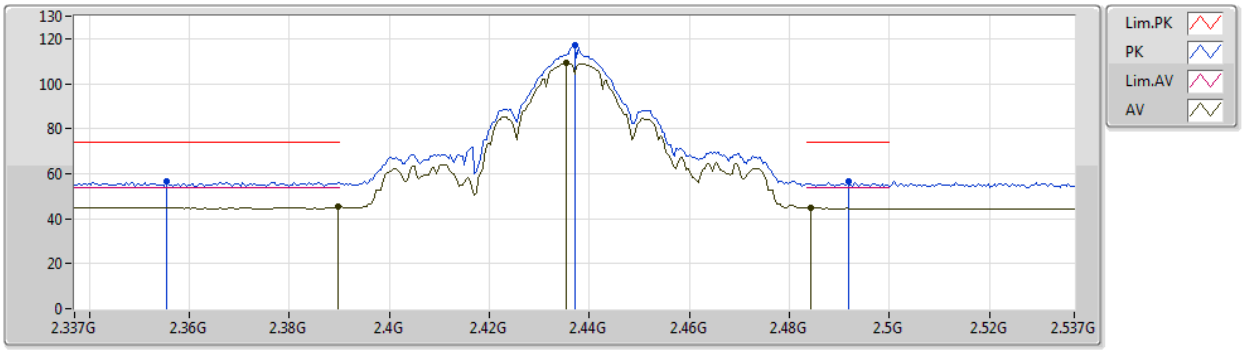
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	45.19	54.00	-8.81	31.54	3	Horizontal	266	2.06	-	13.65	27.54	4.00	-
AV	2.4354G	109.03	Inf	-Inf	31.47	3	Horizontal	266	2.06	-	77.56	27.43	4.04	-
AV	2.4842G	44.83	54.00	-9.17	31.42	3	Horizontal	266	2.06	-	13.41	27.33	4.09	-
PK	2.3554G	56.62	74.00	-17.38	31.64	3	Horizontal	266	2.06	-	24.98	27.68	3.96	-
PK	2.437G	117.06	Inf	-Inf	31.47	3	Horizontal	266	2.06	-	85.59	27.43	4.04	-
PK	2.4918G	56.80	74.00	-17.20	31.41	3	Horizontal	266	2.06	-	25.39	27.32	4.09	-

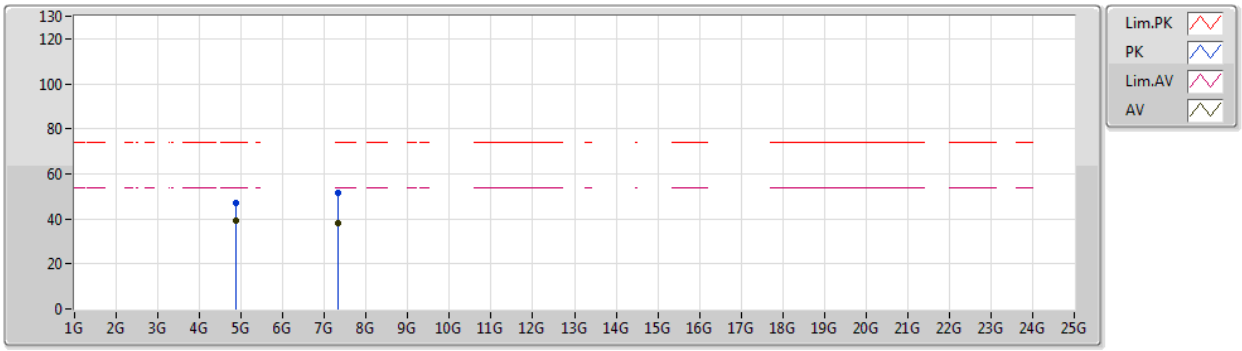
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87406G	39.42	54.00	-14.58	7.62	3	Vertical	21	1.84	-	31.80	31.17	5.83	29.38
AV	7.31262G	38.02	54.00	-15.98	13.40	3	Vertical	182	1.47	-	24.62	36.29	7.47	30.36
PK	4.87394G	46.97	74.00	-27.03	7.62	3	Vertical	21	1.84	-	39.35	31.17	5.83	29.38
PK	7.31304G	51.56	74.00	-22.44	13.40	3	Vertical	182	1.47	-	38.16	36.29	7.47	30.36

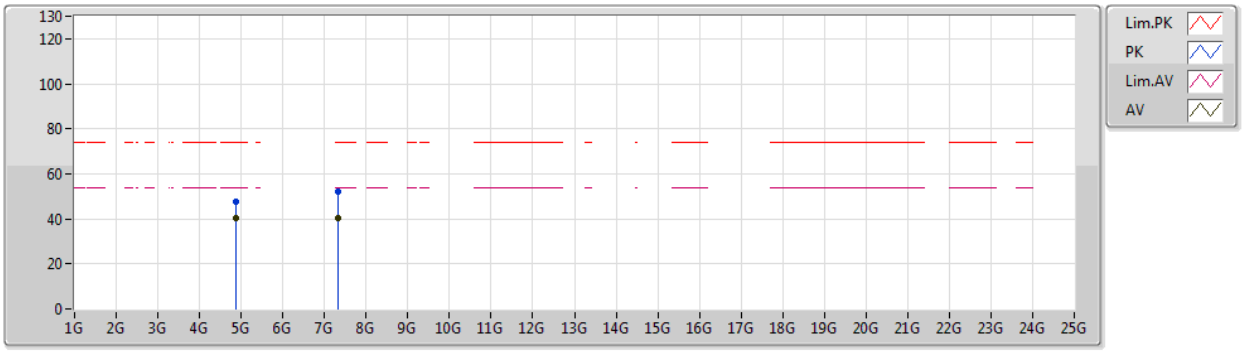
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

2437MHz_TX

19/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87406G	40.57	54.00	-13.43	7.62	3	Horizontal	329	1.73	-	32.95	31.17	5.83	29.38
AV	7.31262G	40.40	54.00	-13.60	13.40	3	Horizontal	216	1.43	-	27.00	36.29	7.47	30.36
PK	4.87412G	47.83	74.00	-26.17	7.62	3	Horizontal	329	1.73	-	40.21	31.17	5.83	29.38
PK	7.31184G	52.39	74.00	-21.61	13.41	3	Horizontal	216	1.43	-	38.98	36.29	7.48	30.36

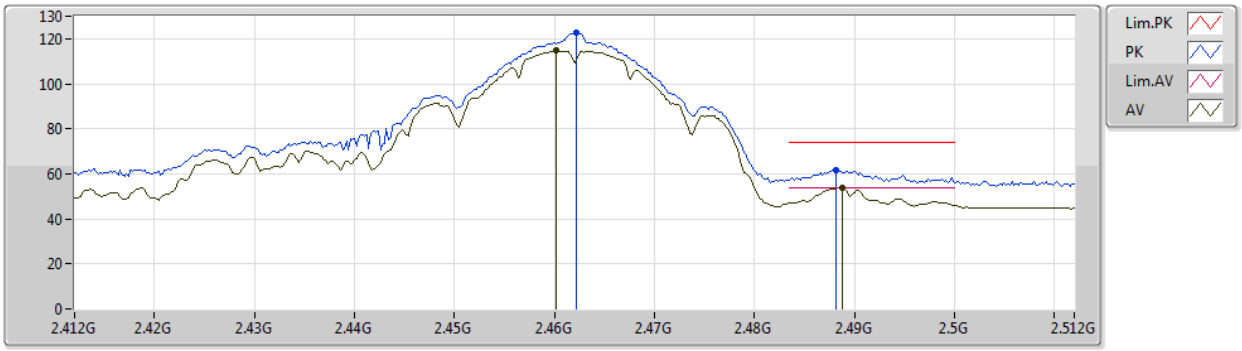
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4602G	114.76	Inf	-Inf	31.44	3	Vertical	10	1.40	-	83.32	27.38	4.06	-
AV	2.4888G	53.88	54.00	-0.12	31.41	3	Vertical	10	1.40	-	22.47	27.32	4.09	-
PK	2.4622G	122.58	Inf	-Inf	31.44	3	Vertical	10	1.40	-	91.14	27.38	4.06	-
PK	2.4882G	61.86	74.00	-12.14	31.41	3	Vertical	10	1.40	-	30.45	27.32	4.09	-

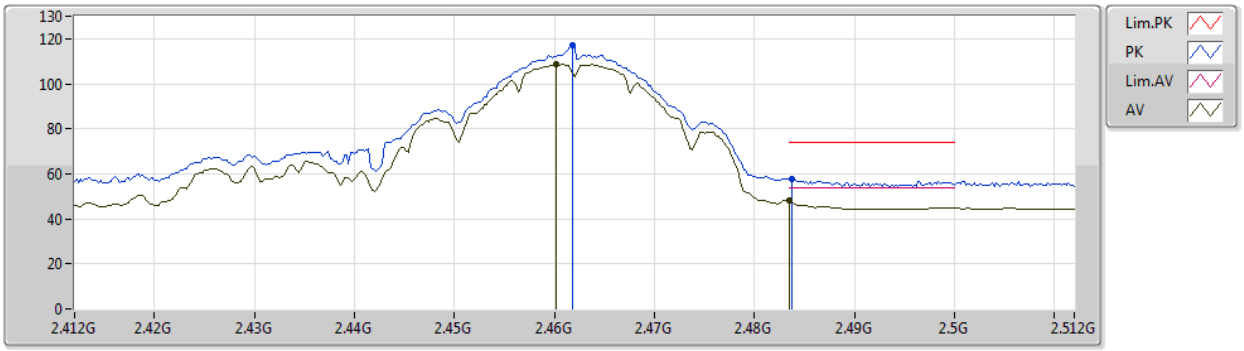
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4602G	108.60	Inf	-Inf	31.44	3	Horizontal	268	1.81	-	77.16	27.38	4.06	-
AV	2.4835G	48.39	54.00	-5.61	31.41	3	Horizontal	268	1.81	-	16.98	27.33	4.08	-
PK	2.4618G	116.84	Inf	-Inf	31.44	3	Horizontal	268	1.81	-	85.40	27.38	4.06	-
PK	2.4838G	57.89	74.00	-16.11	31.41	3	Horizontal	268	1.81	-	26.48	27.33	4.08	-

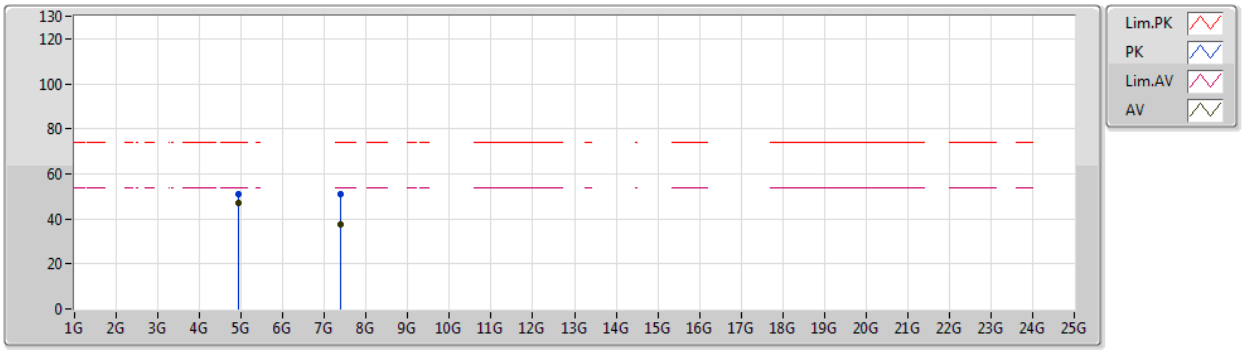
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.924G	47.10	54.00	-6.90	7.79	3	Vertical	46	1.75	-	39.31	31.27	5.87	29.35
AV	7.3882G	37.39	54.00	-16.61	13.13	3	Vertical	244	1.50	-	24.26	36.21	7.34	30.42
PK	4.92394G	51.23	74.00	-22.77	7.79	3	Vertical	46	1.75	-	43.44	31.27	5.87	29.35
PK	7.3743G	50.73	74.00	-23.27	13.18	3	Vertical	244	1.50	-	37.55	36.23	7.36	30.41

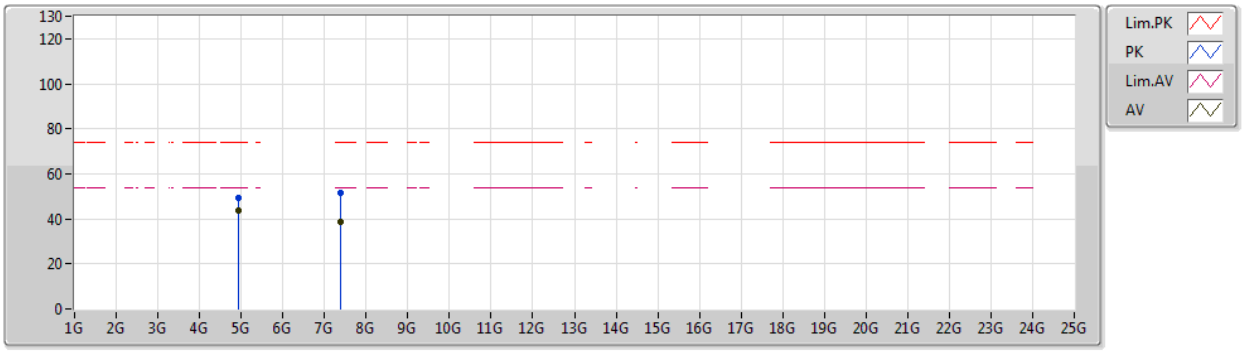
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11b_Nss1,(1Mbps)_1TX(Port4)

19/12/2019

2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92406G	43.60	54.00	-10.40	7.79	3	Horizontal	250	1.78	-	35.81	31.27	5.87	29.35
AV	7.3875G	38.43	54.00	-15.57	13.13	3	Horizontal	216	1.62	-	25.30	36.21	7.34	30.42
PK	4.92394G	49.14	74.00	-24.86	7.79	3	Horizontal	250	1.78	-	41.35	31.27	5.87	29.35
PK	7.3876G	51.67	74.00	-22.33	13.13	3	Horizontal	216	1.62	-	38.54	36.21	7.34	30.42

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

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_Nss4,(MCS0)_4TX	Pass	AV	2.3898G	53.37	54.00	-0.63	3	Vertical	300	1.79	-
802.11ax HEW40_Nss4,(MCS0)_4TX	Pass	AV	2.4862G	53.72	54.00	-0.28	3	Vertical	0	1.57	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3894G	51.31	54.00	-2.69	3	Vertical	360	1.68	-
2412MHz	Pass	AV	2.421G	110.00	Inf	-Inf	3	Vertical	360	1.68	-
2412MHz	Pass	PK	2.3894G	63.11	74.00	-10.89	3	Vertical	360	1.68	-
2412MHz	Pass	PK	2.4164G	120.17	Inf	-Inf	3	Vertical	360	1.68	-
2412MHz	Pass	AV	2.39G	49.28	54.00	-4.72	3	Horizontal	244	1.78	-
2412MHz	Pass	AV	2.4172G	104.03	Inf	-Inf	3	Horizontal	244	1.78	-
2412MHz	Pass	PK	2.3872G	61.09	74.00	-12.91	3	Horizontal	244	1.78	-
2412MHz	Pass	PK	2.4162G	113.53	Inf	-Inf	3	Horizontal	244	1.78	-
2412MHz	Pass	AV	4.8123G	45.77	54.00	-8.23	3	Vertical	15	2.72	-
2412MHz	Pass	PK	4.8164G	56.36	74.00	-17.64	3	Vertical	15	2.72	-
2412MHz	Pass	AV	4.8121G	42.35	54.00	-11.65	3	Horizontal	232	1.66	-
2412MHz	Pass	PK	4.8158G	53.68	74.00	-20.32	3	Horizontal	232	1.66	-
2417MHz	Pass	AV	2.3898G	53.37	54.00	-0.63	3	Vertical	300	1.79	-
2417MHz	Pass	AV	2.4206G	112.35	Inf	-Inf	3	Vertical	300	1.79	-
2417MHz	Pass	AV	2.4846G	46.69	54.00	-7.31	3	Vertical	300	1.79	-
2417MHz	Pass	PK	2.3898G	63.27	74.00	-10.73	3	Vertical	300	1.79	-
2417MHz	Pass	PK	2.4194G	126.28	Inf	-Inf	3	Vertical	300	1.79	-
2417MHz	Pass	PK	2.4906G	58.55	74.00	-15.45	3	Vertical	300	1.79	-
2417MHz	Pass	AV	2.3898G	52.96	54.00	-1.04	3	Horizontal	253	1.80	-
2417MHz	Pass	AV	2.421G	108.61	Inf	-Inf	3	Horizontal	253	1.80	-
2417MHz	Pass	AV	2.4842G	47.45	54.00	-6.55	3	Horizontal	253	1.80	-
2417MHz	Pass	PK	2.3898G	64.11	74.00	-9.89	3	Horizontal	253	1.80	-
2417MHz	Pass	PK	2.4258G	119.55	Inf	-Inf	3	Horizontal	253	1.80	-
2417MHz	Pass	PK	2.4838G	58.62	74.00	-15.38	3	Horizontal	253	1.80	-
2437MHz	Pass	AV	2.3886G	46.21	54.00	-7.79	3	Vertical	360	1.43	-
2437MHz	Pass	AV	2.443G	113.39	Inf	-Inf	3	Vertical	360	1.43	-
2437MHz	Pass	AV	2.4874G	49.32	54.00	-4.68	3	Vertical	360	1.43	-
2437MHz	Pass	PK	2.3874G	59.52	74.00	-14.48	3	Vertical	360	1.43	-
2437MHz	Pass	PK	2.4446G	123.30	Inf	-Inf	3	Vertical	360	1.43	-
2437MHz	Pass	PK	2.487G	62.41	74.00	-11.59	3	Vertical	360	1.43	-
2437MHz	Pass	AV	2.3878G	45.35	54.00	-8.65	3	Horizontal	63	1.93	-
2437MHz	Pass	AV	2.4366G	107.21	Inf	-Inf	3	Horizontal	63	1.93	-
2437MHz	Pass	AV	2.485G	46.68	54.00	-7.32	3	Horizontal	63	1.93	-
2437MHz	Pass	PK	2.3874G	57.05	74.00	-16.95	3	Horizontal	63	1.93	-
2437MHz	Pass	PK	2.4394G	117.26	Inf	-Inf	3	Horizontal	63	1.93	-
2437MHz	Pass	PK	2.4866G	58.46	74.00	-15.54	3	Horizontal	63	1.93	-
2437MHz	Pass	AV	4.88336G	35.96	54.00	-18.04	3	Vertical	17	1.56	-
2437MHz	Pass	AV	7.30974G	38.77	54.00	-15.23	3	Vertical	181	2.65	-
2437MHz	Pass	PK	4.88534G	48.63	74.00	-25.37	3	Vertical	17	1.56	-
2437MHz	Pass	PK	7.32318G	51.40	74.00	-22.60	3	Vertical	181	2.65	-
2437MHz	Pass	AV	4.8743G	35.63	54.00	-18.37	3	Horizontal	334	1.36	-
2437MHz	Pass	AV	7.31412G	39.03	54.00	-14.97	3	Horizontal	217	1.63	-
2437MHz	Pass	PK	4.8749G	49.04	74.00	-24.96	3	Horizontal	334	1.36	-
2437MHz	Pass	PK	7.31298G	51.89	74.00	-22.11	3	Horizontal	217	1.63	-
2457MHz	Pass	AV	2.357G	46.74	54.00	-7.26	3	Vertical	0	1.80	-
2457MHz	Pass	AV	2.4546G	111.32	Inf	-Inf	3	Vertical	0	1.80	-
2457MHz	Pass	AV	2.4842G	51.88	54.00	-2.12	3	Vertical	0	1.80	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.3858G	58.95	74.00	-15.05	3	Vertical	0	1.80	-
2457MHz	Pass	PK	2.4554G	123.45	Inf	-Inf	3	Vertical	0	1.80	-
2457MHz	Pass	PK	2.4835G	64.05	74.00	-9.95	3	Vertical	0	1.80	-
2457MHz	Pass	AV	2.369G	47.33	54.00	-6.67	3	Horizontal	58	1.54	-
2457MHz	Pass	AV	2.4558G	105.28	Inf	-Inf	3	Horizontal	58	1.54	-
2457MHz	Pass	AV	2.4835G	49.75	54.00	-4.25	3	Horizontal	58	1.54	-
2457MHz	Pass	PK	2.3682G	59.29	74.00	-14.71	3	Horizontal	58	1.54	-
2457MHz	Pass	PK	2.4558G	117.08	Inf	-Inf	3	Horizontal	58	1.54	-
2457MHz	Pass	PK	2.4835G	60.93	74.00	-13.07	3	Horizontal	58	1.54	-
2462MHz	Pass	AV	2.4558G	110.94	Inf	-Inf	3	Vertical	91	1.80	-
2462MHz	Pass	AV	2.4836G	53.28	54.00	-0.72	3	Vertical	91	1.80	-
2462MHz	Pass	PK	2.4656G	119.65	Inf	-Inf	3	Vertical	91	1.80	-
2462MHz	Pass	PK	2.4856G	65.09	74.00	-8.91	3	Vertical	91	1.80	-
2462MHz	Pass	AV	2.4606G	103.66	Inf	-Inf	3	Horizontal	68	2.11	-
2462MHz	Pass	AV	2.484G	50.96	54.00	-3.04	3	Horizontal	68	2.11	-
2462MHz	Pass	PK	2.4592G	113.56	Inf	-Inf	3	Horizontal	68	2.11	-
2462MHz	Pass	PK	2.484G	63.47	74.00	-10.53	3	Horizontal	68	2.11	-
2462MHz	Pass	AV	4.9207G	36.78	54.00	-17.22	3	Vertical	188	2.04	-
2462MHz	Pass	AV	7.37418G	37.15	54.00	-16.85	3	Vertical	124	1.50	-
2462MHz	Pass	PK	4.9267G	49.08	74.00	-24.92	3	Vertical	188	2.04	-
2462MHz	Pass	PK	7.38066G	50.69	74.00	-23.31	3	Vertical	124	1.50	-
2462MHz	Pass	AV	4.92298G	34.18	54.00	-19.82	3	Horizontal	145	1.50	-
2462MHz	Pass	AV	7.37748G	37.39	54.00	-16.61	3	Horizontal	216	1.50	-
2462MHz	Pass	PK	4.93114G	47.16	74.00	-26.84	3	Horizontal	145	1.50	-
2462MHz	Pass	PK	7.3737G	51.09	74.00	-22.91	3	Horizontal	216	1.50	-
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	53.62	54.00	-0.38	3	Vertical	12	1.31	-
2422MHz	Pass	AV	2.4112G	110.53	Inf	-Inf	3	Vertical	12	1.31	-
2422MHz	Pass	AV	2.4852G	49.83	54.00	-4.17	3	Vertical	12	1.31	-
2422MHz	Pass	PK	2.3872G	65.20	74.00	-8.80	3	Vertical	12	1.31	-
2422MHz	Pass	PK	2.4212G	121.31	Inf	-Inf	3	Vertical	12	1.31	-
2422MHz	Pass	PK	2.4856G	62.06	74.00	-11.94	3	Vertical	12	1.31	-
2422MHz	Pass	AV	2.39G	51.06	54.00	-2.94	3	Horizontal	242	1.96	-
2422MHz	Pass	AV	2.4312G	104.52	Inf	-Inf	3	Horizontal	242	1.96	-
2422MHz	Pass	AV	2.4864G	47.20	54.00	-6.80	3	Horizontal	242	1.96	-
2422MHz	Pass	PK	2.39G	61.90	74.00	-12.10	3	Horizontal	242	1.96	-
2422MHz	Pass	PK	2.4212G	116.80	Inf	-Inf	3	Horizontal	242	1.96	-
2422MHz	Pass	PK	2.4864G	59.47	74.00	-14.53	3	Horizontal	242	1.96	-
2422MHz	Pass	AV	4.8368G	38.54	54.00	-15.46	3	Vertical	29	1.62	-
2422MHz	Pass	AV	7.251G	37.47	54.00	-16.53	3	Vertical	177	2.81	-
2422MHz	Pass	PK	4.8305G	50.24	74.00	-23.76	3	Vertical	29	1.62	-
2422MHz	Pass	PK	7.25124G	51.41	74.00	-22.59	3	Vertical	177	2.81	-
2422MHz	Pass	AV	4.83218G	35.25	54.00	-18.75	3	Horizontal	229	1.58	-
2422MHz	Pass	AV	7.2519G	38.18	54.00	-15.82	3	Horizontal	217	1.49	-
2422MHz	Pass	PK	4.83254G	48.38	74.00	-25.62	3	Horizontal	229	1.58	-
2422MHz	Pass	PK	7.25202G	51.29	74.00	-22.71	3	Horizontal	217	1.49	-
2427MHz	Pass	AV	2.3898G	53.64	54.00	-0.36	3	Vertical	360	1.57	-
2427MHz	Pass	AV	2.4242G	111.18	Inf	-Inf	3	Vertical	360	1.57	-
2427MHz	Pass	AV	2.4846G	53.71	54.00	-0.29	3	Vertical	360	1.57	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2427MHz	Pass	PK	2.3894G	63.97	74.00	-10.03	3	Vertical	360	1.57	-
2427MHz	Pass	PK	2.4434G	122.92	Inf	-Inf	3	Vertical	360	1.57	-
2427MHz	Pass	PK	2.4838G	72.75	74.00	-1.25	3	Vertical	360	1.57	-
2427MHz	Pass	AV	2.3898G	51.43	54.00	-2.57	3	Horizontal	262	1.80	-
2427MHz	Pass	AV	2.421G	105.07	Inf	-Inf	3	Horizontal	262	1.80	-
2427MHz	Pass	AV	2.4846G	49.95	54.00	-4.05	3	Horizontal	262	1.80	-
2427MHz	Pass	PK	2.379G	61.53	74.00	-12.47	3	Horizontal	262	1.80	-
2427MHz	Pass	PK	2.4254G	115.08	Inf	-Inf	3	Horizontal	262	1.80	-
2427MHz	Pass	PK	2.4838G	66.95	74.00	-7.05	3	Horizontal	262	1.80	-
2437MHz	Pass	AV	2.3898G	47.85	54.00	-6.15	3	Vertical	0	1.57	-
2437MHz	Pass	AV	2.4266G	110.22	Inf	-Inf	3	Vertical	0	1.57	-
2437MHz	Pass	AV	2.4862G	53.72	54.00	-0.28	3	Vertical	0	1.57	-
2437MHz	Pass	PK	2.3882G	59.02	74.00	-14.98	3	Vertical	0	1.57	-
2437MHz	Pass	PK	2.4362G	120.20	Inf	-Inf	3	Vertical	0	1.57	-
2437MHz	Pass	PK	2.4866G	65.74	74.00	-8.26	3	Vertical	0	1.57	-
2437MHz	Pass	AV	2.3898G	47.22	54.00	-6.78	3	Horizontal	243	1.67	-
2437MHz	Pass	AV	2.4462G	105.07	Inf	-Inf	3	Horizontal	243	1.67	-
2437MHz	Pass	AV	2.4862G	51.72	54.00	-2.28	3	Horizontal	243	1.67	-
2437MHz	Pass	PK	2.389G	58.57	74.00	-15.43	3	Horizontal	243	1.67	-
2437MHz	Pass	PK	2.4362G	116.32	Inf	-Inf	3	Horizontal	243	1.67	-
2437MHz	Pass	PK	2.4862G	63.98	74.00	-10.02	3	Horizontal	243	1.67	-
2437MHz	Pass	AV	4.87706G	33.24	54.00	-20.76	3	Vertical	321	2.39	-
2437MHz	Pass	AV	7.3254G	36.81	54.00	-17.19	3	Vertical	3	1.50	-
2437MHz	Pass	PK	4.8725G	46.63	74.00	-27.37	3	Vertical	321	2.39	-
2437MHz	Pass	PK	7.30848G	50.35	74.00	-23.65	3	Vertical	3	1.50	-
2437MHz	Pass	AV	4.87724G	32.16	54.00	-21.84	3	Horizontal	218	1.62	-
2437MHz	Pass	AV	7.29678G	37.50	54.00	-16.50	3	Horizontal	211	1.49	-
2437MHz	Pass	PK	4.87796G	45.64	74.00	-28.36	3	Horizontal	218	1.62	-
2437MHz	Pass	PK	7.31352G	50.90	74.00	-23.10	3	Horizontal	211	1.49	-
2447MHz	Pass	AV	2.3802G	46.99	54.00	-7.01	3	Vertical	0	1.59	-
2447MHz	Pass	AV	2.4442G	108.24	Inf	-Inf	3	Vertical	0	1.59	-
2447MHz	Pass	AV	2.4835G	53.21	54.00	-0.79	3	Vertical	0	1.59	-
2447MHz	Pass	PK	2.3898G	59.07	74.00	-14.93	3	Vertical	0	1.59	-
2447MHz	Pass	PK	2.4434G	120.09	Inf	-Inf	3	Vertical	0	1.59	-
2447MHz	Pass	PK	2.4835G	73.50	74.00	-0.50	3	Vertical	0	1.59	-
2447MHz	Pass	AV	2.347G	46.84	54.00	-7.16	3	Horizontal	264	2.03	-
2447MHz	Pass	AV	2.4358G	101.97	Inf	-Inf	3	Horizontal	264	2.03	-
2447MHz	Pass	AV	2.4846G	51.29	54.00	-2.71	3	Horizontal	264	2.03	-
2447MHz	Pass	PK	2.349G	59.19	74.00	-14.81	3	Horizontal	264	2.03	-
2447MHz	Pass	PK	2.4334G	112.03	Inf	-Inf	3	Horizontal	264	2.03	-
2447MHz	Pass	PK	2.4835G	66.72	74.00	-7.28	3	Horizontal	264	2.03	-
2452MHz	Pass	AV	2.3808G	44.42	54.00	-9.58	3	Vertical	360	1.40	-
2452MHz	Pass	AV	2.4412G	107.56	Inf	-Inf	3	Vertical	360	1.40	-
2452MHz	Pass	AV	2.4868G	53.48	54.00	-0.52	3	Vertical	360	1.40	-
2452MHz	Pass	PK	2.3712G	56.11	74.00	-17.89	3	Vertical	360	1.40	-
2452MHz	Pass	PK	2.4512G	117.75	Inf	-Inf	3	Vertical	360	1.40	-
2452MHz	Pass	PK	2.4864G	68.24	74.00	-5.76	3	Vertical	360	1.40	-
2452MHz	Pass	AV	2.3888G	44.45	54.00	-9.55	3	Horizontal	244	1.66	-
2452MHz	Pass	AV	2.4412G	102.28	Inf	-Inf	3	Horizontal	244	1.66	-

Remark :
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

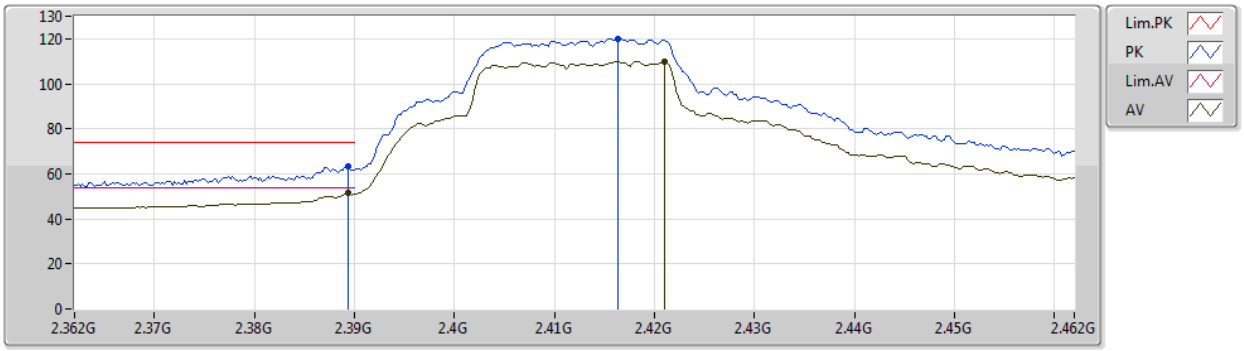
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2452MHz	Pass	AV	2.4864G	50.49	54.00	-3.51	3	Horizontal	244	1.66	-
2452MHz	Pass	PK	2.354G	56.30	74.00	-17.70	3	Horizontal	244	1.66	-
2452MHz	Pass	PK	2.4512G	114.32	Inf	-Inf	3	Horizontal	244	1.66	-
2452MHz	Pass	PK	2.4864G	65.18	74.00	-8.82	3	Horizontal	244	1.66	-
2452MHz	Pass	AV	4.9043G	33.34	54.00	-20.66	3	Vertical	178	1.77	-
2452MHz	Pass	AV	7.3533G	36.77	54.00	-17.23	3	Vertical	197	1.50	-
2452MHz	Pass	PK	4.90424G	46.81	74.00	-27.19	3	Vertical	178	1.77	-
2452MHz	Pass	PK	7.35288G	50.48	74.00	-23.52	3	Vertical	197	1.50	-
2452MHz	Pass	AV	4.91042G	31.82	54.00	-22.18	3	Horizontal	333	1.50	-
2452MHz	Pass	AV	7.35102G	36.78	54.00	-17.22	3	Horizontal	204	1.50	-
2452MHz	Pass	PK	4.91066G	44.98	74.00	-29.02	3	Horizontal	333	1.50	-
2452MHz	Pass	PK	7.34784G	50.59	74.00	-23.41	3	Horizontal	204	1.50	-
2452MHz	Pass	AV	2.3808G	44.42	54.00	-9.58	3	Vertical	360	1.40	-

Remark :
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2412MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	51.31	54.00	-2.69	31.54	3	Vertical	360	1.68	-	19.77	27.54	4.00	-
AV	2.421G	110.00	Inf	-Inf	31.49	3	Vertical	360	1.68	-	78.51	27.46	4.03	-
PK	2.3894G	63.11	74.00	-10.89	31.54	3	Vertical	360	1.68	-	31.57	27.54	4.00	-
PK	2.4164G	120.17	Inf	-Inf	31.49	3	Vertical	360	1.68	-	88.68	27.47	4.02	-

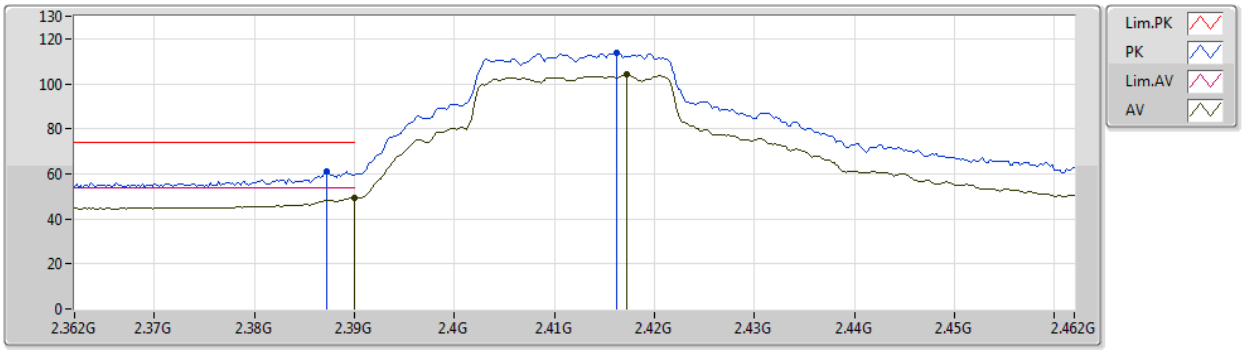
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2412MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	49.28	54.00	-4.72	31.54	3	Horizontal	244	1.78	-	17.74	27.54	4.00	-
AV	2.4172G	104.03	Inf	-Inf	31.49	3	Horizontal	244	1.78	-	72.54	27.47	4.02	-
PK	2.3872G	61.09	74.00	-12.91	31.54	3	Horizontal	244	1.78	-	29.55	27.55	3.99	-
PK	2.4162G	113.53	Inf	-Inf	31.49	3	Horizontal	244	1.78	-	82.04	27.47	4.02	-

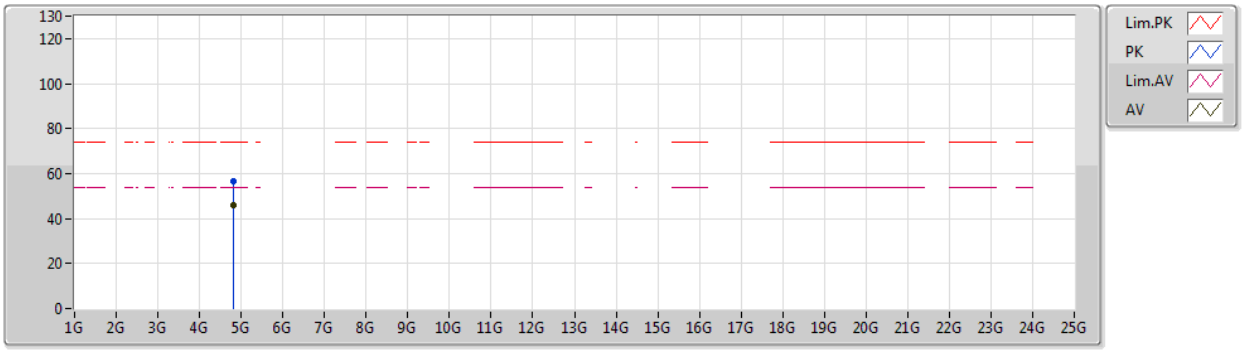
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2412MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8123G	45.77	54.00	-8.23	7.48	3	Vertical	15	2.72	-	38.29	31.11	5.78	29.41
PK	4.8164G	56.36	74.00	-17.64	7.51	3	Vertical	15	2.72	-	48.85	31.12	5.79	29.40

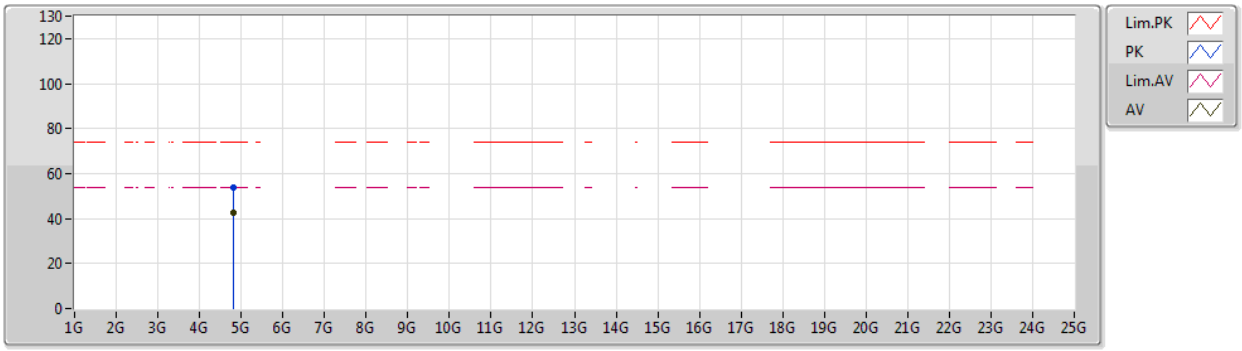
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2412MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8121G	42.35	54.00	-11.65	7.48	3	Horizontal	232	1.66	-	34.87	31.11	5.78	29.41
PK	4.8158G	53.68	74.00	-20.32	7.51	3	Horizontal	232	1.66	-	46.17	31.12	5.79	29.40

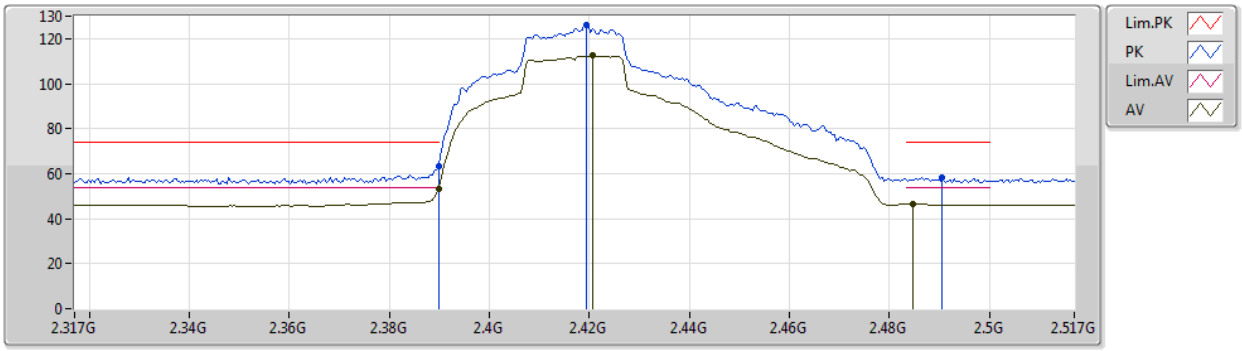
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2417MHz_TX

24/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	53.37	54.00	-0.63	31.54	3	Vertical	300	1.79	-	21.83	27.54	4.00	-
AV	2.4206G	112.35	Inf	-Inf	31.49	3	Vertical	300	1.79	-	80.86	27.46	4.03	-
AV	2.4846G	46.69	54.00	-7.31	31.42	3	Vertical	300	1.79	-	15.27	27.33	4.09	-
PK	2.3898G	63.27	74.00	-10.73	31.54	3	Vertical	300	1.79	-	31.73	27.54	4.00	-
PK	2.4194G	126.28	Inf	-Inf	31.48	3	Vertical	300	1.79	-	94.80	27.46	4.02	-
PK	2.4906G	58.55	74.00	-15.45	31.41	3	Vertical	300	1.79	-	27.14	27.32	4.09	-

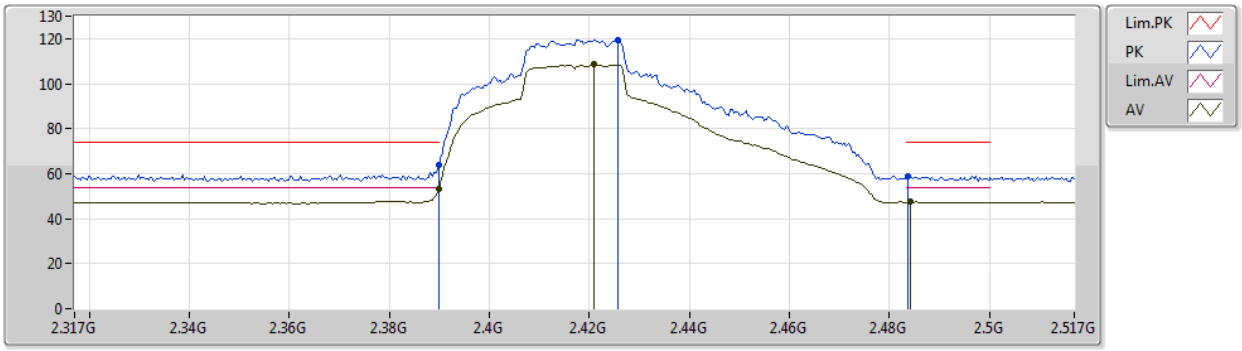
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2417MHz_TX

24/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	52.96	54.00	-1.04	31.54	3	Horizontal	253	1.80	-	21.42	27.54	4.00	-
AV	2.421G	108.61	Inf	-Inf	31.49	3	Horizontal	253	1.80	-	77.12	27.46	4.03	-
AV	2.4842G	47.45	54.00	-6.55	31.42	3	Horizontal	253	1.80	-	16.03	27.33	4.09	-
PK	2.3898G	64.11	74.00	-9.89	31.54	3	Horizontal	253	1.80	-	32.57	27.54	4.00	-
PK	2.4258G	119.55	Inf	-Inf	31.48	3	Horizontal	253	1.80	-	88.07	27.45	4.03	-
PK	2.4838G	58.62	74.00	-15.38	31.41	3	Horizontal	253	1.80	-	27.21	27.33	4.08	-

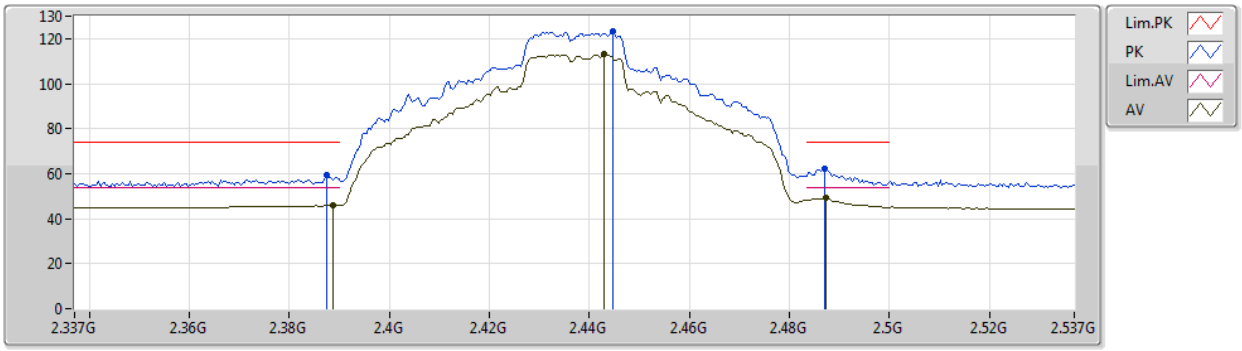
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2437MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3886G	46.21	54.00	-7.79	31.55	3	Vertical	360	1.43	-	14.66	27.55	4.00	-
AV	2.443G	113.39	Inf	-Inf	31.46	3	Vertical	360	1.43	-	81.93	27.41	4.05	-
AV	2.4874G	49.32	54.00	-4.68	31.42	3	Vertical	360	1.43	-	17.90	27.33	4.09	-
PK	2.3874G	59.52	74.00	-14.48	31.54	3	Vertical	360	1.43	-	27.98	27.55	3.99	-
PK	2.4446G	123.30	Inf	-Inf	31.46	3	Vertical	360	1.43	-	91.84	27.41	4.05	-
PK	2.487G	62.41	74.00	-11.59	31.42	3	Vertical	360	1.43	-	30.99	27.33	4.09	-

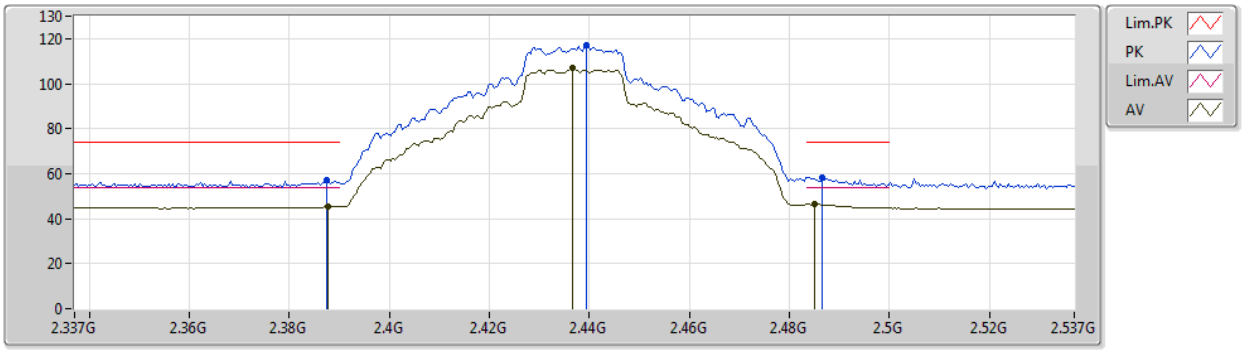
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2437MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3878G	45.35	54.00	-8.65	31.54	3	Horizontal	63	1.93	-	13.81	27.55	3.99	-
AV	2.4366G	107.21	Inf	-Inf	31.47	3	Horizontal	63	1.93	-	75.74	27.43	4.04	-
AV	2.485G	46.68	54.00	-7.32	31.42	3	Horizontal	63	1.93	-	15.26	27.33	4.09	-
PK	2.3874G	57.05	74.00	-16.95	31.54	3	Horizontal	63	1.93	-	25.51	27.55	3.99	-
PK	2.4394G	117.26	Inf	-Inf	31.46	3	Horizontal	63	1.93	-	85.80	27.42	4.04	-
PK	2.4866G	58.46	74.00	-15.54	31.42	3	Horizontal	63	1.93	-	27.04	27.33	4.09	-

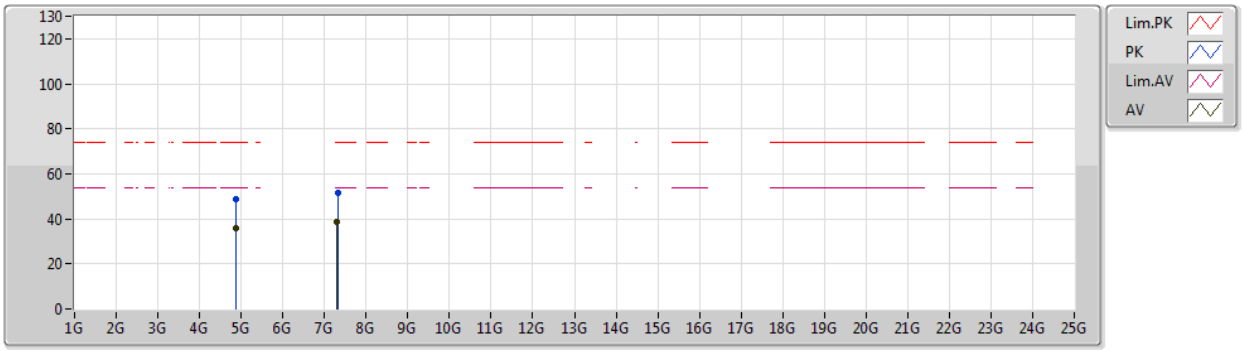
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2437MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88336G	35.96	54.00	-18.04	7.65	3	Vertical	17	1.56	-	28.31	31.18	5.84	29.37
AV	7.30974G	38.77	54.00	-15.23	13.41	3	Vertical	181	2.65	-	25.36	36.29	7.48	30.36
PK	4.88534G	48.63	74.00	-25.37	7.66	3	Vertical	17	1.56	-	40.97	31.19	5.84	29.37
PK	7.32318G	51.40	74.00	-22.60	13.37	3	Vertical	181	2.65	-	38.03	36.28	7.46	30.37

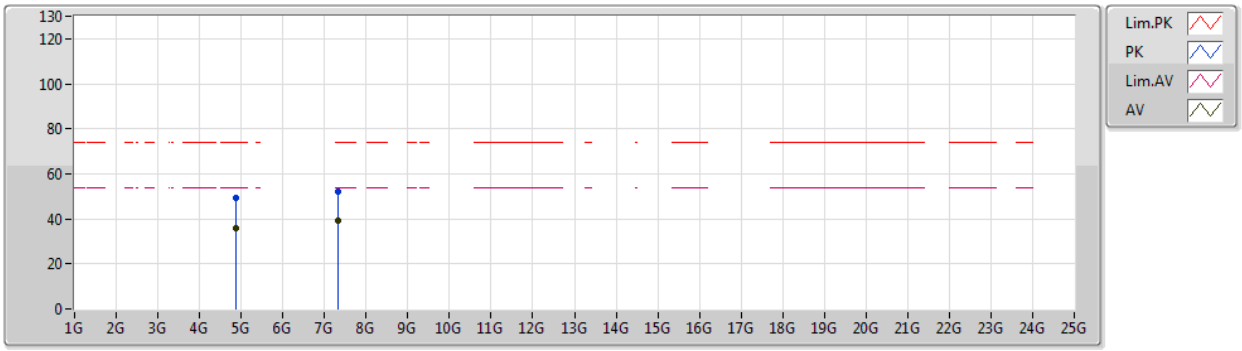
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2437MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8743G	35.63	54.00	-18.37	7.62	3	Horizontal	334	1.36	-	28.01	31.17	5.83	29.38
AV	7.31412G	39.03	54.00	-14.97	13.40	3	Horizontal	217	1.63	-	25.63	36.29	7.47	30.36
PK	4.8749G	49.04	74.00	-24.96	7.62	3	Horizontal	334	1.36	-	41.42	31.17	5.83	29.38
PK	7.31298G	51.89	74.00	-22.11	13.40	3	Horizontal	217	1.63	-	38.49	36.29	7.47	30.36

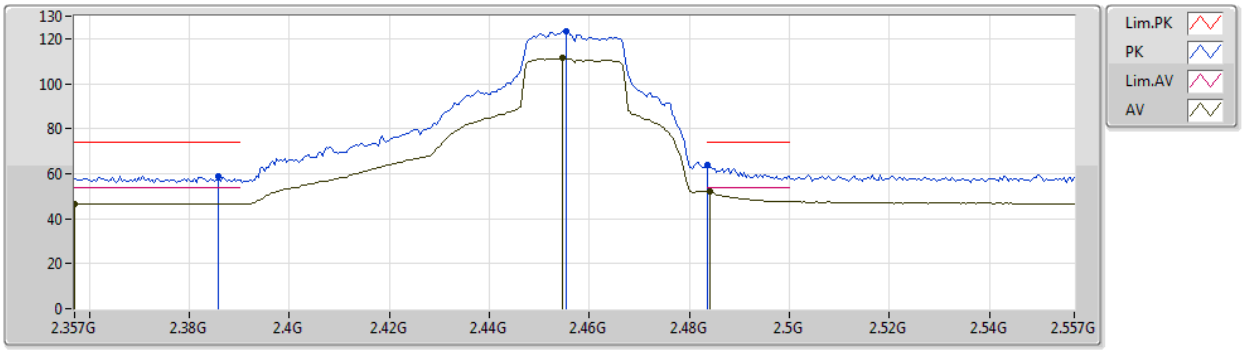
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2457MHz_TX

24/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.357G	46.74	54.00	-7.26	31.64	3	Vertical	0	1.80	-	15.10	27.67	3.97	-
AV	2.4546G	111.32	Inf	-Inf	31.45	3	Vertical	0	1.80	-	79.87	27.39	4.06	-
AV	2.4842G	51.88	54.00	-2.12	31.42	3	Vertical	0	1.80	-	20.46	27.33	4.09	-
PK	2.3858G	58.95	74.00	-15.05	31.55	3	Vertical	0	1.80	-	27.40	27.56	3.99	-
PK	2.4554G	123.45	Inf	-Inf	31.45	3	Vertical	0	1.80	-	92.00	27.39	4.06	-
PK	2.4835G	64.05	74.00	-9.95	31.41	3	Vertical	0	1.80	-	32.64	27.33	4.08	-

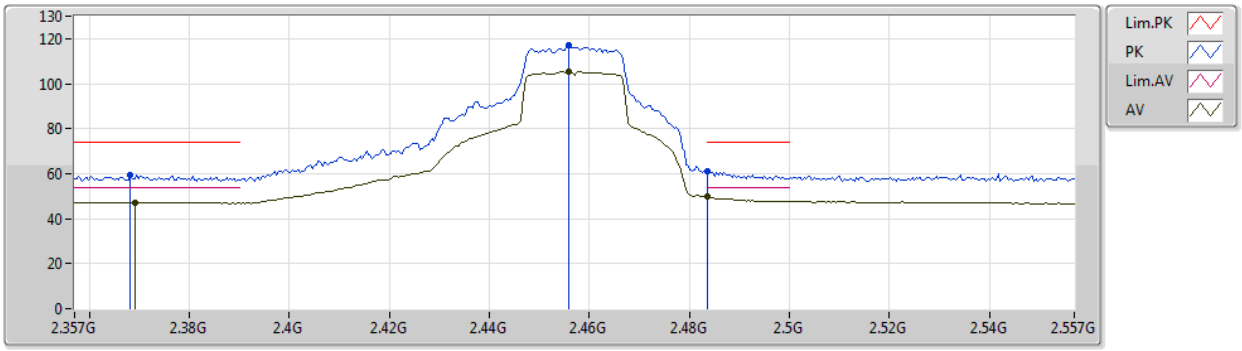
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2457MHz_TX

24/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.369G	47.33	54.00	-6.67	31.60	3	Horizontal	58	1.54	-	15.73	27.62	3.98	-
AV	2.4558G	105.28	Inf	-Inf	31.45	3	Horizontal	58	1.54	-	73.83	27.39	4.06	-
AV	2.4835G	49.75	54.00	-4.25	31.41	3	Horizontal	58	1.54	-	18.34	27.33	4.08	-
PK	2.3682G	59.29	74.00	-14.71	31.61	3	Horizontal	58	1.54	-	27.68	27.63	3.98	-
PK	2.4558G	117.08	Inf	-Inf	31.45	3	Horizontal	58	1.54	-	85.63	27.39	4.06	-
PK	2.4835G	60.93	74.00	-13.07	31.41	3	Horizontal	58	1.54	-	29.52	27.33	4.08	-

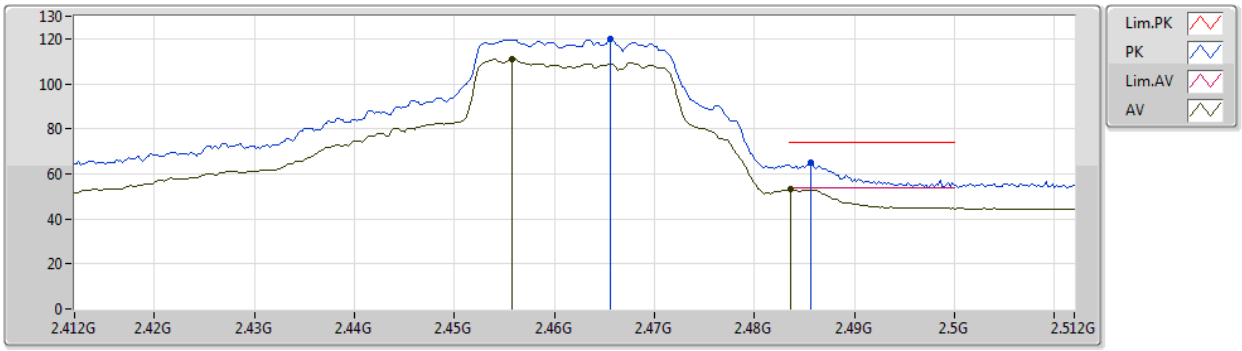
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2462MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4558G	110.94	Inf	-Inf	31.45	3	Vertical	91	1.80	-	79.49	27.39	4.06	-
AV	2.4836G	53.28	54.00	-0.72	31.41	3	Vertical	91	1.80	-	21.87	27.33	4.08	-
PK	2.4656G	119.65	Inf	-Inf	31.44	3	Vertical	91	1.80	-	88.21	27.37	4.07	-
PK	2.4856G	65.09	74.00	-8.91	31.42	3	Vertical	91	1.80	-	33.67	27.33	4.09	-

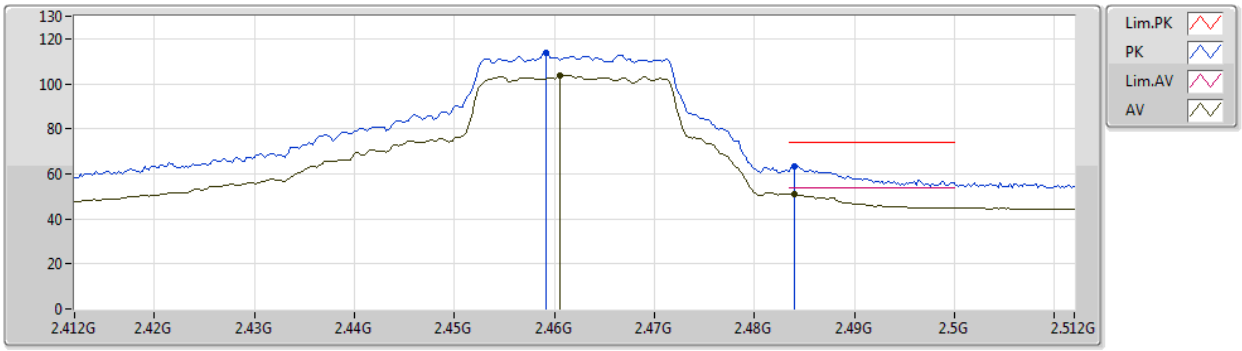
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2462MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4606G	103.66	Inf	-Inf	31.44	3	Horizontal	68	2.11	-	72.22	27.38	4.06	-
AV	2.484G	50.96	54.00	-3.04	31.41	3	Horizontal	68	2.11	-	19.55	27.33	4.08	-
PK	2.4592G	113.56	Inf	-Inf	31.44	3	Horizontal	68	2.11	-	82.12	27.38	4.06	-
PK	2.484G	63.47	74.00	-10.53	31.41	3	Horizontal	68	2.11	-	32.06	27.33	4.08	-

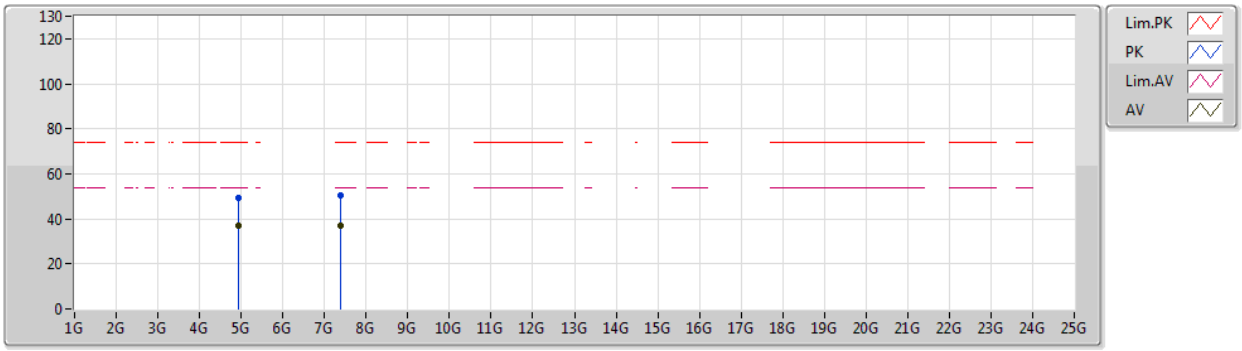
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2462MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9207G	36.78	54.00	-17.22	7.76	3	Vertical	188	2.04	-	29.02	31.26	5.86	29.36
AV	7.37418G	37.15	54.00	-16.85	13.18	3	Vertical	124	1.50	-	23.97	36.23	7.36	30.41
PK	4.9267G	49.08	74.00	-24.92	7.80	3	Vertical	188	2.04	-	41.28	31.28	5.87	29.35
PK	7.38066G	50.69	74.00	-23.31	13.15	3	Vertical	124	1.50	-	37.54	36.22	7.35	30.42

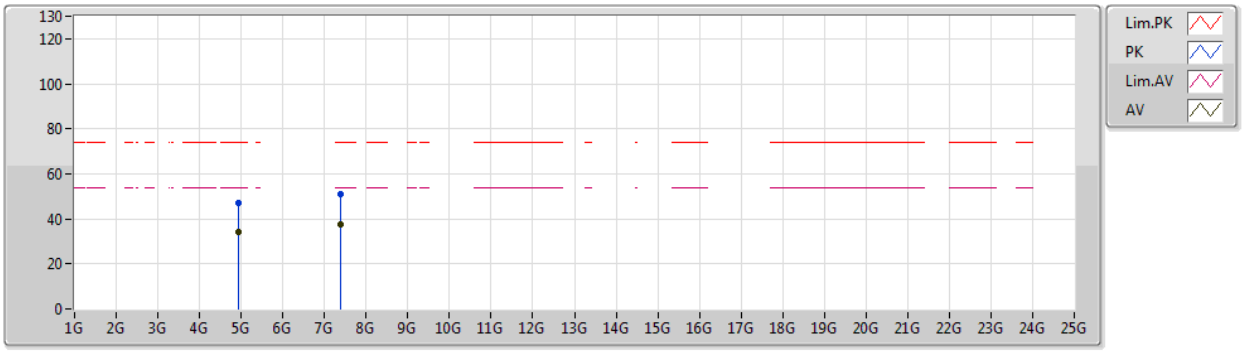
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20_Nss4,(MCS0)_4TX

2462MHz_TX

17/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92298G	34.18	54.00	-19.82	7.77	3	Horizontal	145	1.50	-	26.41	31.27	5.86	29.36
AV	7.37748G	37.39	54.00	-16.61	13.17	3	Horizontal	216	1.50	-	24.22	36.22	7.36	30.41
PK	4.93114G	47.16	74.00	-26.84	7.81	3	Horizontal	145	1.50	-	39.35	31.29	5.87	29.35
PK	7.3737G	51.09	74.00	-22.91	13.18	3	Horizontal	216	1.50	-	37.91	36.23	7.36	30.41

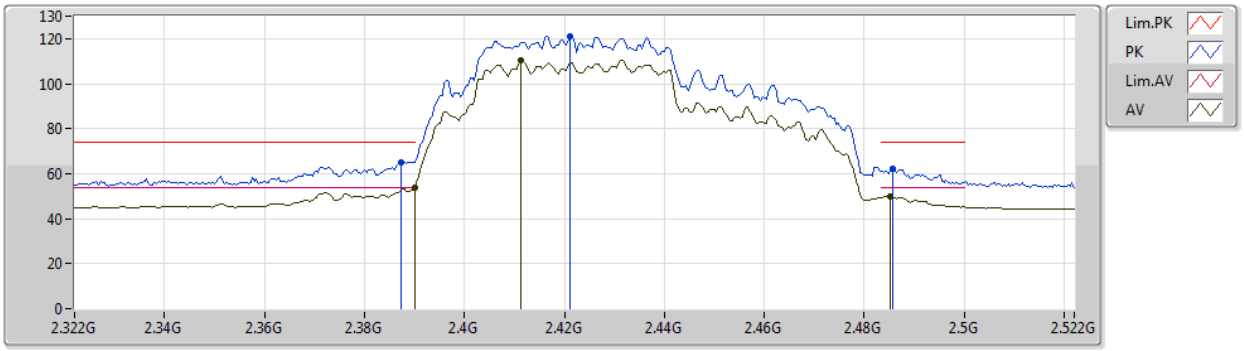
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2422MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	53.62	54.00	-0.38	31.54	3	Vertical	12	1.31	-	22.08	27.54	4.00	-
AV	2.4112G	110.53	Inf	-Inf	31.50	3	Vertical	12	1.31	-	79.03	27.48	4.02	-
AV	2.4852G	49.83	54.00	-4.17	31.42	3	Vertical	12	1.31	-	18.41	27.33	4.09	-
PK	2.3872G	65.20	74.00	-8.80	31.54	3	Vertical	12	1.31	-	33.66	27.55	3.99	-
PK	2.4212G	121.31	Inf	-Inf	31.49	3	Vertical	12	1.31	-	89.82	27.46	4.03	-
PK	2.4856G	62.06	74.00	-11.94	31.42	3	Vertical	12	1.31	-	30.64	27.33	4.09	-

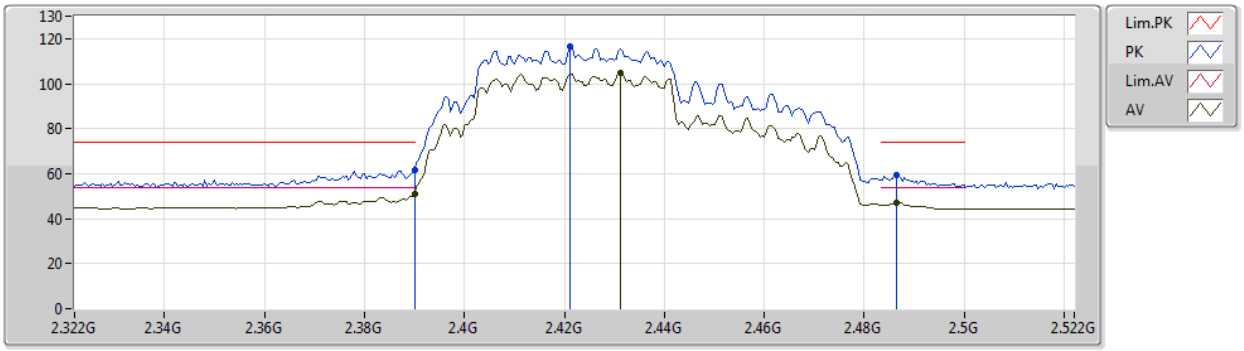
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2422MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	51.06	54.00	-2.94	31.54	3	Horizontal	242	1.96	-	19.52	27.54	4.00	-
AV	2.4312G	104.52	Inf	-Inf	31.48	3	Horizontal	242	1.96	-	73.04	27.44	4.04	-
AV	2.4864G	47.20	54.00	-6.80	31.42	3	Horizontal	242	1.96	-	15.78	27.33	4.09	-
PK	2.39G	61.90	74.00	-12.10	31.54	3	Horizontal	242	1.96	-	30.36	27.54	4.00	-
PK	2.4212G	116.80	Inf	-Inf	31.49	3	Horizontal	242	1.96	-	85.31	27.46	4.03	-
PK	2.4864G	59.47	74.00	-14.53	31.42	3	Horizontal	242	1.96	-	28.05	27.33	4.09	-

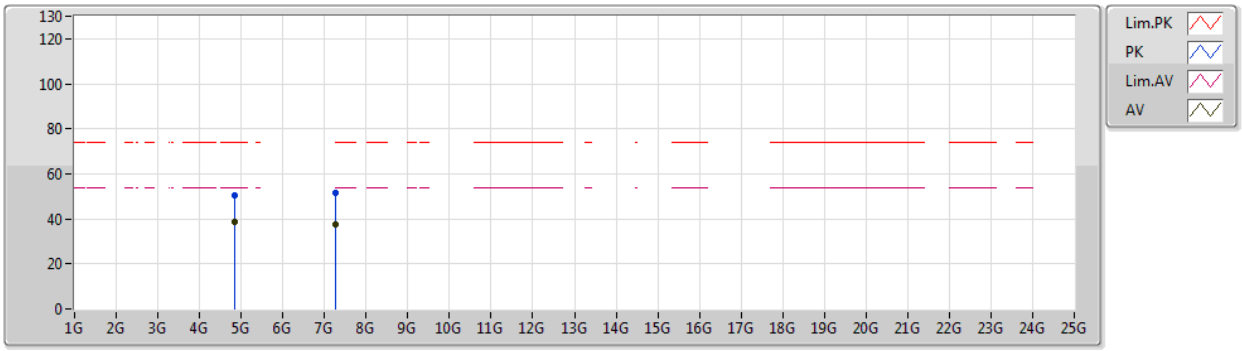
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2422MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8368G	38.54	54.00	-15.46	7.54	3	Vertical	29	1.62	-	31.00	31.14	5.80	29.40
AV	7.251G	37.47	54.00	-16.53	13.48	3	Vertical	177	2.81	-	23.99	36.20	7.59	30.31
PK	4.8305G	50.24	74.00	-23.76	7.53	3	Vertical	29	1.62	-	42.71	31.13	5.80	29.40
PK	7.25124G	51.41	74.00	-22.59	13.48	3	Vertical	177	2.81	-	37.93	36.20	7.59	30.31

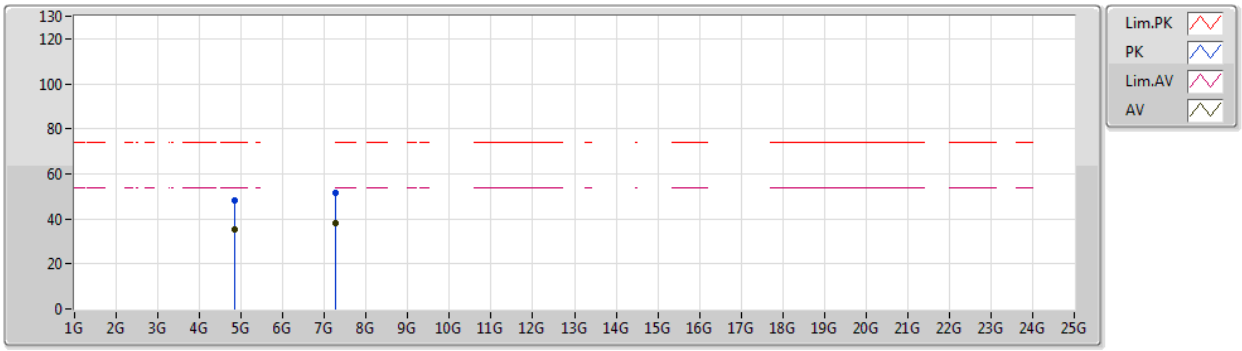
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2422MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.83218G	35.25	54.00	-18.75	7.53	3	Horizontal	229	1.58	-	27.72	31.13	5.80	29.40
AV	7.2519G	38.18	54.00	-15.82	13.48	3	Horizontal	217	1.49	-	24.70	36.20	7.59	30.31
PK	4.83254G	48.38	74.00	-25.62	7.53	3	Horizontal	229	1.58	-	40.85	31.13	5.80	29.40
PK	7.25202G	51.29	74.00	-22.71	13.48	3	Horizontal	217	1.49	-	37.81	36.20	7.59	30.31

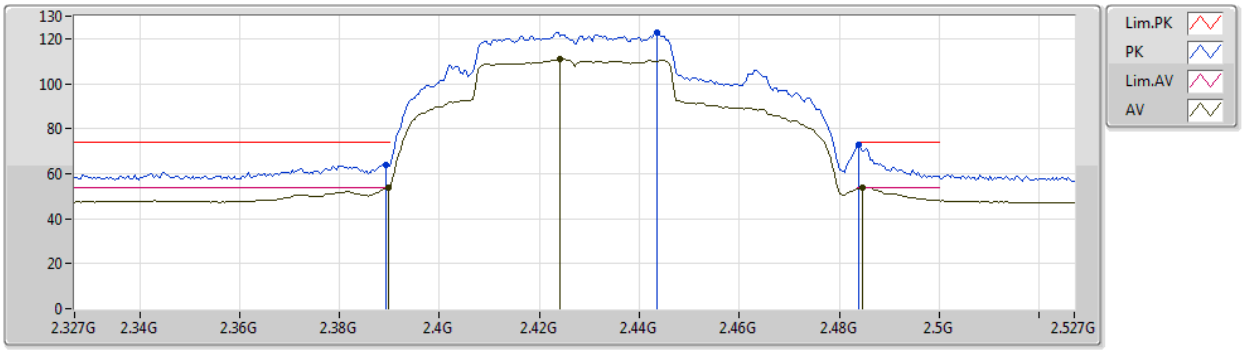
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2427MHz_TX

24/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	53.64	54.00	-0.36	31.54	3	Vertical	360	1.57	-	22.10	27.54	4.00	-
AV	2.4242G	111.18	Inf	-Inf	31.48	3	Vertical	360	1.57	-	79.70	27.45	4.03	-
AV	2.4846G	53.71	54.00	-0.29	31.42	3	Vertical	360	1.57	-	22.29	27.33	4.09	-
PK	2.3894G	63.97	74.00	-10.03	31.54	3	Vertical	360	1.57	-	32.43	27.54	4.00	-
PK	2.4434G	122.92	Inf	-Inf	31.46	3	Vertical	360	1.57	-	91.46	27.41	4.05	-
PK	2.4838G	72.75	74.00	-1.25	31.41	3	Vertical	360	1.57	-	41.34	27.33	4.08	-

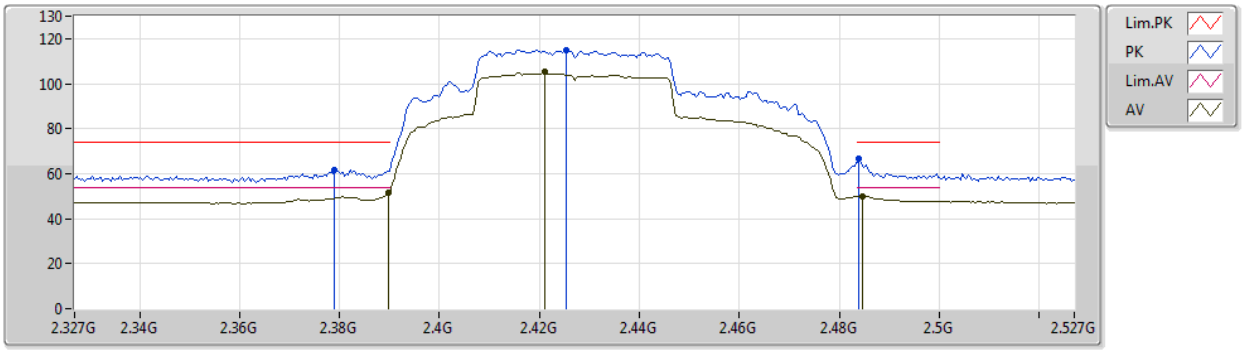
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2427MHz_TX

24/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	51.43	54.00	-2.57	31.54	3	Horizontal	262	1.80	-	19.89	27.54	4.00	-
AV	2.421G	105.07	Inf	-Inf	31.49	3	Horizontal	262	1.80	-	73.58	27.46	4.03	-
AV	2.4846G	49.95	54.00	-4.05	31.42	3	Horizontal	262	1.80	-	18.53	27.33	4.09	-
PK	2.379G	61.53	74.00	-12.47	31.57	3	Horizontal	262	1.80	-	29.96	27.58	3.99	-
PK	2.4254G	115.08	Inf	-Inf	31.48	3	Horizontal	262	1.80	-	83.60	27.45	4.03	-
PK	2.4838G	66.95	74.00	-7.05	31.41	3	Horizontal	262	1.80	-	35.54	27.33	4.08	-

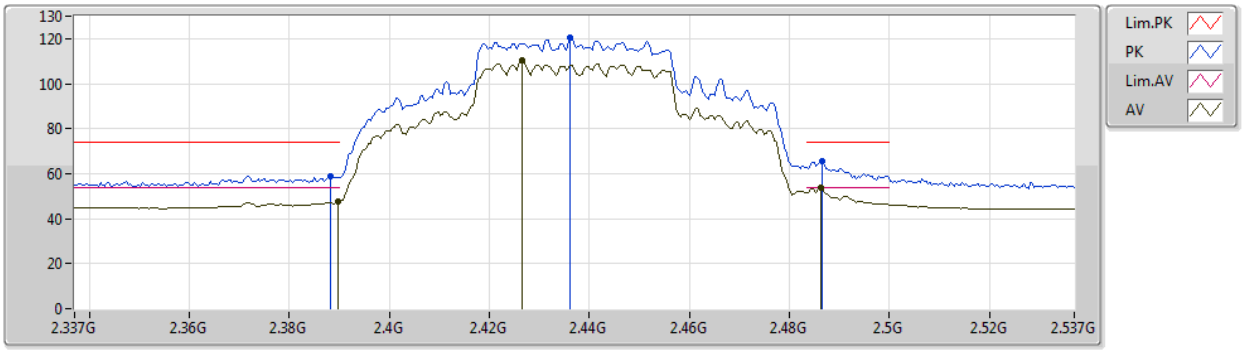
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2437MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	47.85	54.00	-6.15	31.54	3	Vertical	0	1.57	-	16.31	27.54	4.00	-
AV	2.4266G	110.22	Inf	-Inf	31.48	3	Vertical	0	1.57	-	78.74	27.45	4.03	-
AV	2.4862G	53.72	54.00	-0.28	31.42	3	Vertical	0	1.57	-	22.30	27.33	4.09	-
PK	2.3882G	59.02	74.00	-14.98	31.54	3	Vertical	0	1.57	-	27.48	27.55	3.99	-
PK	2.4362G	120.20	Inf	-Inf	31.47	3	Vertical	0	1.57	-	88.73	27.43	4.04	-
PK	2.4866G	65.74	74.00	-8.26	31.42	3	Vertical	0	1.57	-	34.32	27.33	4.09	-

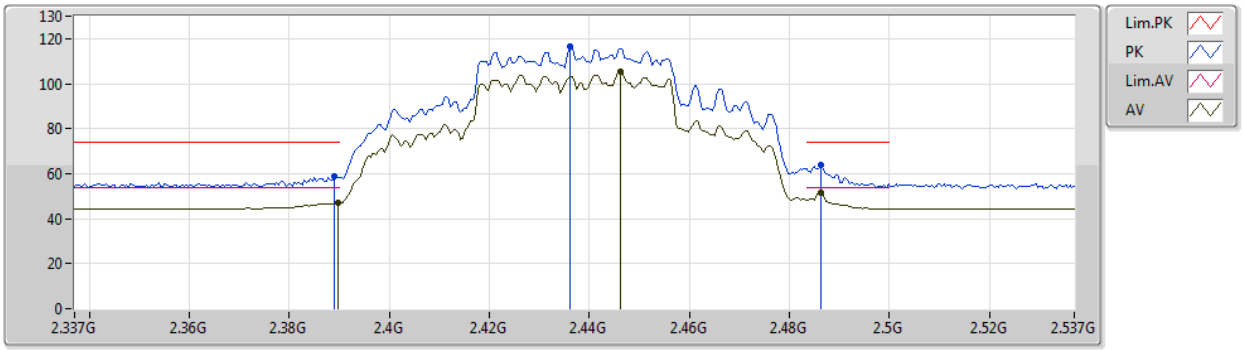
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2437MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	47.22	54.00	-6.78	31.54	3	Horizontal	243	1.67	-	15.68	27.54	4.00	-
AV	2.4462G	105.07	Inf	-Inf	31.46	3	Horizontal	243	1.67	-	73.61	27.41	4.05	-
AV	2.4862G	51.72	54.00	-2.28	31.42	3	Horizontal	243	1.67	-	20.30	27.33	4.09	-
PK	2.389G	58.57	74.00	-15.43	31.54	3	Horizontal	243	1.67	-	27.03	27.54	4.00	-
PK	2.4362G	116.32	Inf	-Inf	31.47	3	Horizontal	243	1.67	-	84.85	27.43	4.04	-
PK	2.4862G	63.98	74.00	-10.02	31.42	3	Horizontal	243	1.67	-	32.56	27.33	4.09	-

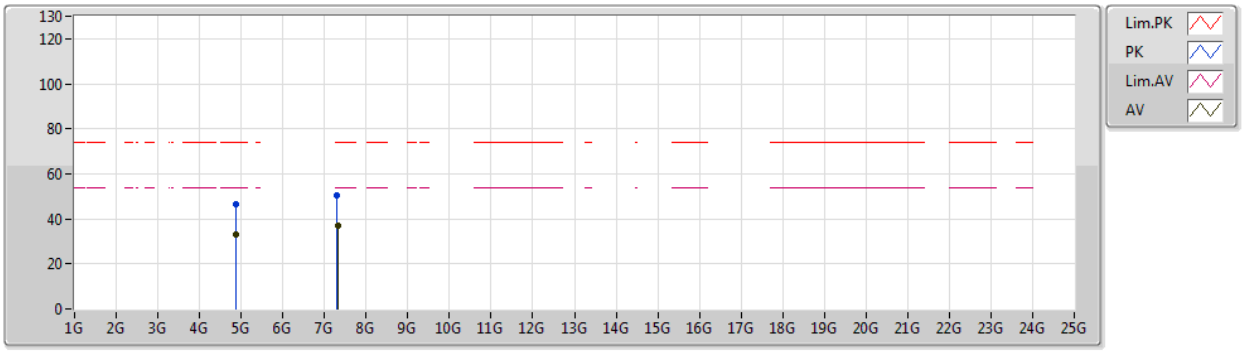
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2437MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87706G	33.24	54.00	-20.76	7.63	3	Vertical	321	2.39	-	25.61	31.18	5.83	29.38
AV	7.3254G	36.81	54.00	-17.19	13.35	3	Vertical	3	1.50	-	23.46	36.27	7.45	30.37
PK	4.8725G	46.63	74.00	-27.37	7.62	3	Vertical	321	2.39	-	39.01	31.17	5.83	29.38
PK	7.30848G	50.35	74.00	-23.65	13.41	3	Vertical	3	1.50	-	36.94	36.29	7.48	30.36

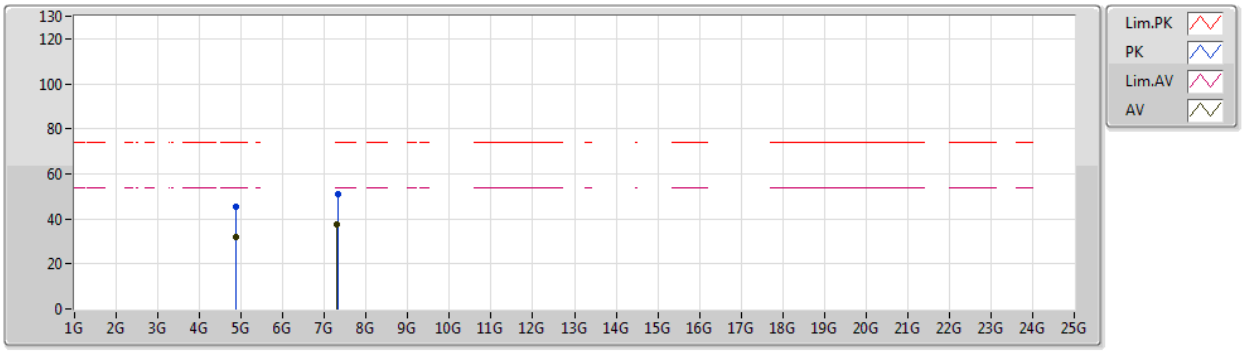
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2437MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87724G	32.16	54.00	-21.84	7.63	3	Horizontal	218	1.62	-	24.53	31.18	5.83	29.38
AV	7.29678G	37.50	54.00	-16.50	13.44	3	Horizontal	211	1.49	-	24.06	36.29	7.50	30.35
PK	4.87796G	45.64	74.00	-28.36	7.63	3	Horizontal	218	1.62	-	38.01	31.18	5.83	29.38
PK	7.31352G	50.90	74.00	-23.10	13.40	3	Horizontal	211	1.49	-	37.50	36.29	7.47	30.36

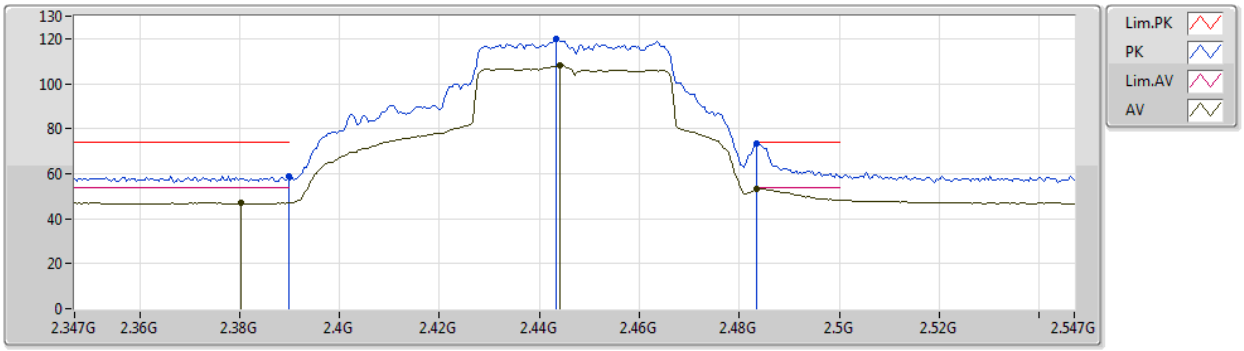
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2447MHz_TX

24/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3802G	46.99	54.00	-7.01	31.57	3	Vertical	0	1.59	-	15.42	27.58	3.99	-
AV	2.4442G	108.24	Inf	-Inf	31.46	3	Vertical	0	1.59	-	76.78	27.41	4.05	-
AV	2.4835G	53.21	54.00	-0.79	31.41	3	Vertical	0	1.59	-	21.80	27.33	4.08	-
PK	2.3898G	59.07	74.00	-14.93	31.54	3	Vertical	0	1.59	-	27.53	27.54	4.00	-
PK	2.4434G	120.09	Inf	-Inf	31.46	3	Vertical	0	1.59	-	88.63	27.41	4.05	-
PK	2.4835G	73.50	74.00	-0.50	31.41	3	Vertical	0	1.59	-	42.09	27.33	4.08	-

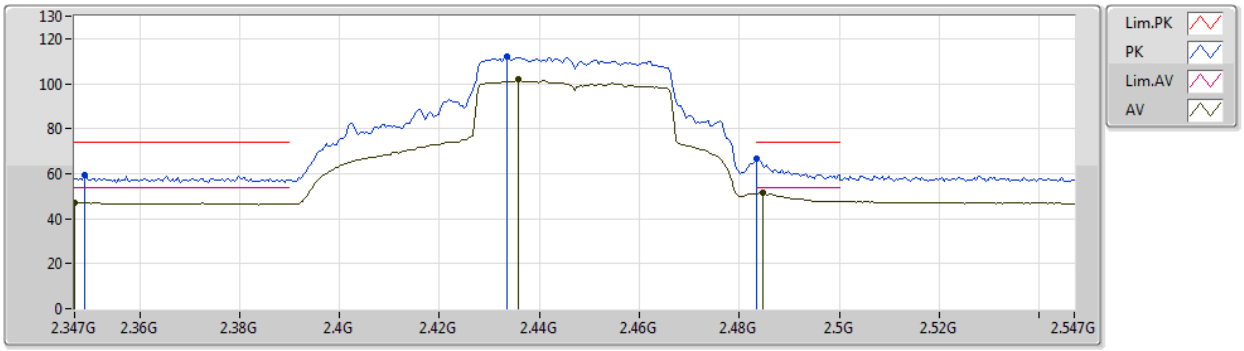
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2447MHz_TX

24/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.347G	46.84	54.00	-7.16	31.67	3	Horizontal	264	2.03	-	15.17	27.71	3.96	-
AV	2.4358G	101.97	Inf	-Inf	31.47	3	Horizontal	264	2.03	-	70.50	27.43	4.04	-
AV	2.4846G	51.29	54.00	-2.71	31.42	3	Horizontal	264	2.03	-	19.87	27.33	4.09	-
PK	2.349G	59.19	74.00	-14.81	31.66	3	Horizontal	264	2.03	-	27.53	27.70	3.96	-
PK	2.4334G	112.03	Inf	-Inf	31.47	3	Horizontal	264	2.03	-	80.56	27.43	4.04	-
PK	2.4835G	66.72	74.00	-7.28	31.41	3	Horizontal	264	2.03	-	35.31	27.33	4.08	-

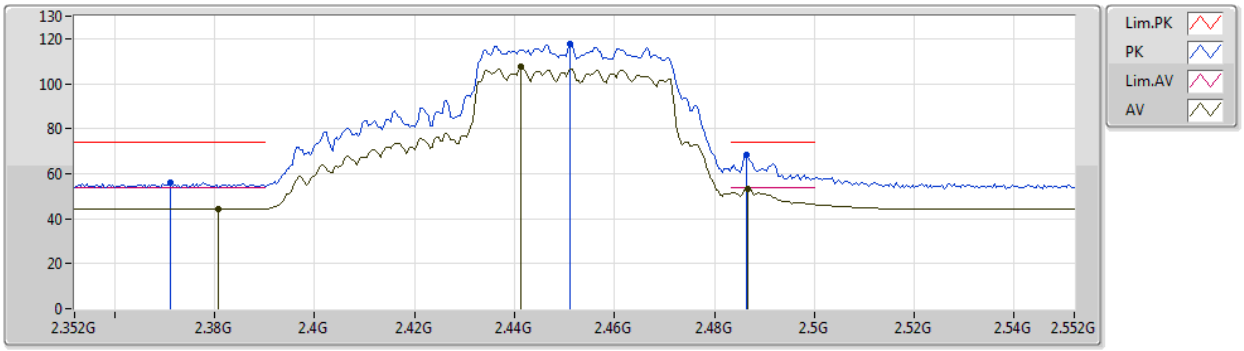
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

20/12/2019

2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3808G	44.42	54.00	-9.58	31.57	3	Vertical	360	1.40	-	12.85	27.58	3.99	-
AV	2.4412G	107.56	Inf	-Inf	31.46	3	Vertical	360	1.40	-	76.10	27.42	4.04	-
AV	2.4868G	53.48	54.00	-0.52	31.42	3	Vertical	360	1.40	-	22.06	27.33	4.09	-
PK	2.3712G	56.11	74.00	-17.89	31.60	3	Vertical	360	1.40	-	24.51	27.62	3.98	-
PK	2.4512G	117.75	Inf	-Inf	31.45	3	Vertical	360	1.40	-	86.30	27.40	4.05	-
PK	2.4864G	68.24	74.00	-5.76	31.42	3	Vertical	360	1.40	-	36.82	27.33	4.09	-

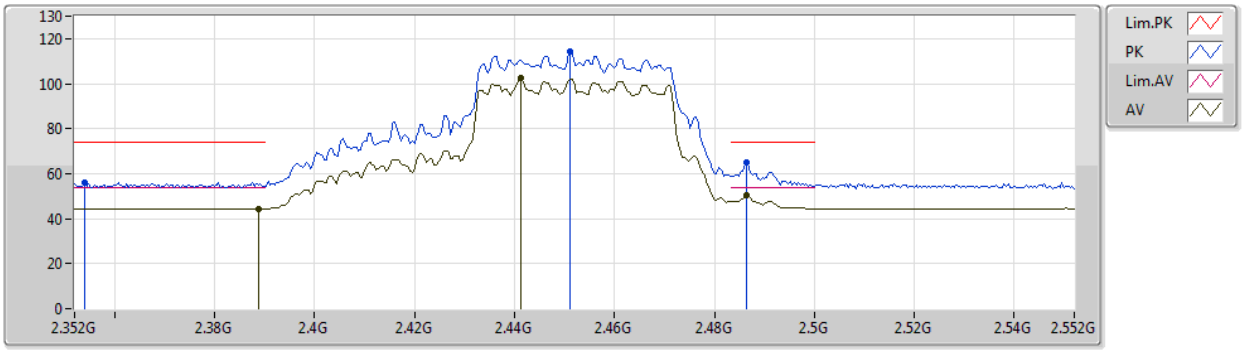
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

20/12/2019

2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3888G	44.45	54.00	-9.55	31.54	3	Horizontal	244	1.66	-	12.91	27.54	4.00	-
AV	2.4412G	102.28	Inf	-Inf	31.46	3	Horizontal	244	1.66	-	70.82	27.42	4.04	-
AV	2.4864G	50.49	54.00	-3.51	31.42	3	Horizontal	244	1.66	-	19.07	27.33	4.09	-
PK	2.354G	56.30	74.00	-17.70	31.64	3	Horizontal	244	1.66	-	24.66	27.68	3.96	-
PK	2.4512G	114.32	Inf	-Inf	31.45	3	Horizontal	244	1.66	-	82.87	27.40	4.05	-
PK	2.4864G	65.18	74.00	-8.82	31.42	3	Horizontal	244	1.66	-	33.76	27.33	4.09	-

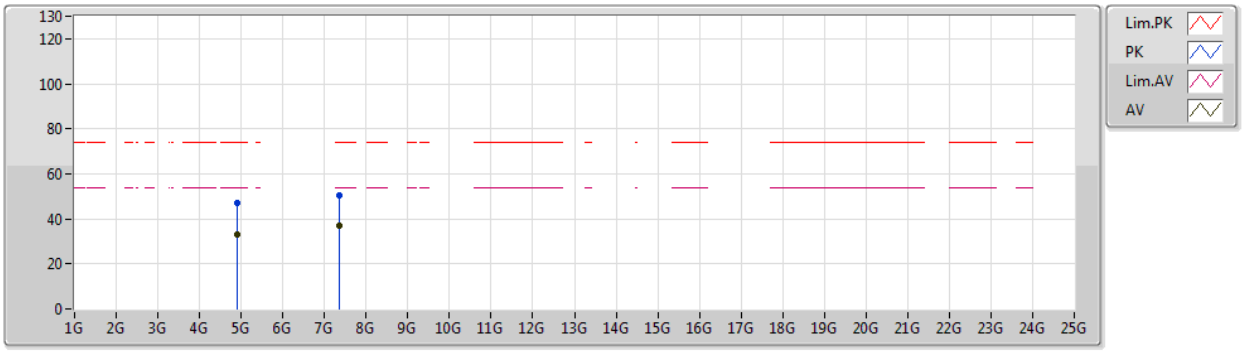
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

20/12/2019

2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9043G	33.34	54.00	-20.66	7.70	3	Vertical	178	1.77	-	25.64	31.21	5.85	29.36
AV	7.3533G	36.77	54.00	-17.23	13.26	3	Vertical	197	1.50	-	23.51	36.25	7.40	30.39
PK	4.90424G	46.81	74.00	-27.19	7.70	3	Vertical	178	1.77	-	39.11	31.21	5.85	29.36
PK	7.35288G	50.48	74.00	-23.52	13.26	3	Vertical	197	1.50	-	37.22	36.25	7.40	30.39

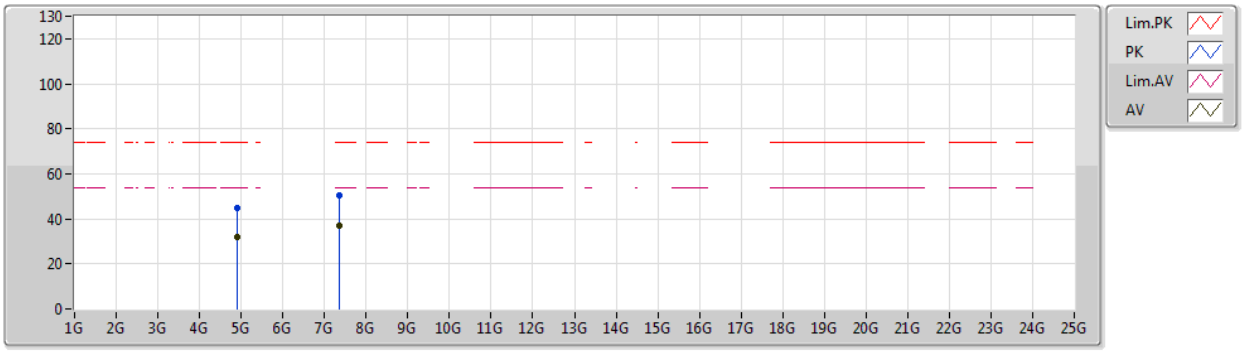
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40_Nss4,(MCS0)_4TX

2452MHz_TX

20/12/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.91042G	31.82	54.00	-22.18	7.73	3	Horizontal	333	1.50	-	24.09	31.23	5.86	29.36
AV	7.35102G	36.78	54.00	-17.22	13.26	3	Horizontal	204	1.50	-	23.52	36.25	7.40	30.39
PK	4.91066G	44.98	74.00	-29.02	7.73	3	Horizontal	333	1.50	-	37.25	31.23	5.86	29.36
PK	7.34784G	50.59	74.00	-23.41	13.27	3	Horizontal	204	1.50	-	37.32	36.25	7.41	30.39

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	Pass	AV	2.4835G	53.09	54.00	-0.91	3	Vertical	353	2.00	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	AV	2.3884G	53.78	54.00	-0.22	3	Vertical	360	1.57	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	49.00	54.00	-5.00	3	Vertical	15	1.47	-
2412MHz	Pass	AV	2.4112G	114.30	Inf	-Inf	3	Vertical	15	1.47	-
2412MHz	Pass	AV	2.484G	44.64	54.00	-9.36	3	Vertical	15	1.47	-
2412MHz	Pass	PK	2.3888G	61.83	74.00	-12.17	3	Vertical	15	1.47	-
2412MHz	Pass	PK	2.4124G	124.08	Inf	-Inf	3	Vertical	15	1.47	-
2412MHz	Pass	PK	2.4904G	56.73	74.00	-17.27	3	Vertical	15	1.47	-
2412MHz	Pass	AV	2.39G	46.45	54.00	-7.55	3	Horizontal	73	1.53	-
2412MHz	Pass	AV	2.4148G	109.13	Inf	-Inf	3	Horizontal	73	1.53	-
2412MHz	Pass	AV	2.4868G	44.39	54.00	-9.61	3	Horizontal	73	1.53	-
2412MHz	Pass	PK	2.39G	58.84	74.00	-15.16	3	Horizontal	73	1.53	-
2412MHz	Pass	PK	2.4212G	118.68	Inf	-Inf	3	Horizontal	73	1.53	-
2412MHz	Pass	PK	2.4952G	56.87	74.00	-17.13	3	Horizontal	73	1.53	-
2412MHz	Pass	AV	4.812G	47.10	54.00	-6.90	3	Vertical	74	1.66	-
2412MHz	Pass	PK	4.8117G	59.92	74.00	-14.08	3	Vertical	74	1.66	-
2412MHz	Pass	AV	4.809G	44.50	54.00	-9.50	3	Horizontal	303	1.84	-
2412MHz	Pass	PK	4.8117G	56.90	74.00	-17.10	3	Horizontal	303	1.84	-
2437MHz	Pass	AV	2.3898G	45.12	54.00	-8.88	3	Vertical	347	1.60	-
2437MHz	Pass	AV	2.4294G	113.58	Inf	-Inf	3	Vertical	347	1.60	-
2437MHz	Pass	AV	2.4838G	45.34	54.00	-8.66	3	Vertical	347	1.60	-
2437MHz	Pass	PK	2.3774G	57.43	74.00	-16.57	3	Vertical	347	1.60	-
2437MHz	Pass	PK	2.4282G	126.98	Inf	-Inf	3	Vertical	347	1.60	-
2437MHz	Pass	PK	2.487G	58.63	74.00	-15.37	3	Vertical	347	1.60	-
2437MHz	Pass	AV	2.3426G	44.77	54.00	-9.23	3	Horizontal	0	2.96	-
2437MHz	Pass	AV	2.4362G	108.24	Inf	-Inf	3	Horizontal	0	2.96	-
2437MHz	Pass	AV	2.4838G	44.84	54.00	-9.16	3	Horizontal	0	2.96	-
2437MHz	Pass	PK	2.3554G	57.21	74.00	-16.79	3	Horizontal	0	2.96	-
2437MHz	Pass	PK	2.443G	118.19	Inf	-Inf	3	Horizontal	0	2.96	-
2437MHz	Pass	PK	2.487G	57.44	74.00	-16.56	3	Horizontal	0	2.96	-
2437MHz	Pass	AV	4.874G	50.16	54.00	-3.84	3	Vertical	360	1.50	-
2437MHz	Pass	AV	7.31268G	39.72	54.00	-14.28	3	Vertical	283	1.50	-
2437MHz	Pass	PK	4.86956G	57.96	74.00	-16.04	3	Vertical	360	1.50	-
2437MHz	Pass	PK	7.31802G	51.83	74.00	-22.17	3	Vertical	283	1.50	-
2437MHz	Pass	AV	4.87394G	44.81	54.00	-9.19	3	Horizontal	325	1.97	-
2437MHz	Pass	AV	7.31184G	48.13	54.00	-5.87	3	Horizontal	272	2.48	-
2437MHz	Pass	PK	4.87046G	61.77	74.00	-12.23	3	Horizontal	325	1.97	-
2437MHz	Pass	PK	7.31376G	56.33	74.00	-17.67	3	Horizontal	272	2.48	-
2457MHz	Pass	AV	2.3574G	44.83	54.00	-9.17	3	Vertical	344	1.54	-
2457MHz	Pass	AV	2.4526G	113.85	Inf	-Inf	3	Vertical	344	1.54	-
2457MHz	Pass	AV	2.4835G	52.10	54.00	-1.90	3	Vertical	344	1.54	-
2457MHz	Pass	PK	2.375G	56.81	74.00	-17.19	3	Vertical	344	1.54	-
2457MHz	Pass	PK	2.455G	127.22	Inf	-Inf	3	Vertical	344	1.54	-
2457MHz	Pass	PK	2.4838G	71.41	74.00	-2.59	3	Vertical	344	1.54	-
2457MHz	Pass	AV	2.3594G	44.64	54.00	-9.36	3	Horizontal	355	3.00	-
2457MHz	Pass	AV	2.4558G	109.67	Inf	-Inf	3	Horizontal	355	3.00	-
2457MHz	Pass	AV	2.4835G	48.98	54.00	-5.02	3	Horizontal	355	3.00	-
2457MHz	Pass	PK	2.3826G	56.30	74.00	-17.70	3	Horizontal	355	3.00	-
2457MHz	Pass	PK	2.4566G	117.49	Inf	-Inf	3	Horizontal	355	3.00	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.4878G	66.40	74.00	-7.60	3	Horizontal	355	3.00	-
2457MHz	Pass	AV	4.91418G	48.78	54.00	-5.22	3	Vertical	279	2.94	-
2457MHz	Pass	AV	7.37202G	39.60	54.00	-14.40	3	Vertical	278	1.43	-
2457MHz	Pass	PK	4.91406G	52.87	74.00	-21.13	3	Vertical	279	2.94	-
2457MHz	Pass	PK	7.37154G	51.65	74.00	-22.35	3	Vertical	278	1.43	-
2457MHz	Pass	AV	4.914G	45.89	54.00	-8.11	3	Horizontal	55	3.00	-
2457MHz	Pass	AV	7.37208G	44.97	54.00	-9.03	3	Horizontal	230	2.23	-
2457MHz	Pass	PK	4.91034G	55.81	74.00	-18.19	3	Horizontal	55	3.00	-
2457MHz	Pass	PK	7.37364G	53.83	74.00	-20.17	3	Horizontal	230	2.23	-
2462MHz	Pass	AV	2.3728G	44.83	54.00	-9.17	3	Vertical	353	2.00	-
2462MHz	Pass	AV	2.4556G	113.13	Inf	-Inf	3	Vertical	353	2.00	-
2462MHz	Pass	AV	2.4835G	53.09	54.00	-0.91	3	Vertical	353	2.00	-
2462MHz	Pass	PK	2.3692G	56.99	74.00	-17.01	3	Vertical	353	2.00	-
2462MHz	Pass	PK	2.4624G	123.38	Inf	-Inf	3	Vertical	353	2.00	-
2462MHz	Pass	PK	2.4844G	67.87	74.00	-6.13	3	Vertical	353	2.00	-
2462MHz	Pass	AV	2.368G	44.56	54.00	-9.44	3	Horizontal	81	1.84	-
2462MHz	Pass	AV	2.4648G	104.90	Inf	-Inf	3	Horizontal	81	1.84	-
2462MHz	Pass	AV	2.486G	47.13	54.00	-6.87	3	Horizontal	81	1.84	-
2462MHz	Pass	PK	2.3772G	56.77	74.00	-17.23	3	Horizontal	81	1.84	-
2462MHz	Pass	PK	2.4624G	114.95	Inf	-Inf	3	Horizontal	81	1.84	-
2462MHz	Pass	PK	2.4835G	60.40	74.00	-13.60	3	Horizontal	81	1.84	-
2462MHz	Pass	AV	4.92256G	35.58	54.00	-18.42	3	Vertical	97	1.64	-
2462MHz	Pass	AV	7.38678G	39.82	54.00	-14.18	3	Vertical	11	1.50	-
2462MHz	Pass	PK	4.92502G	46.41	74.00	-27.59	3	Vertical	97	1.64	-
2462MHz	Pass	PK	7.386G	52.46	74.00	-21.54	3	Vertical	11	1.50	-
2462MHz	Pass	AV	4.91098G	34.38	54.00	-19.62	3	Horizontal	66	1.33	-
2462MHz	Pass	AV	7.3782G	37.03	54.00	-16.97	3	Horizontal	306	1.49	-
2462MHz	Pass	PK	4.93054G	45.51	74.00	-28.49	3	Horizontal	66	1.33	-
2462MHz	Pass	PK	7.37718G	50.65	74.00	-23.35	3	Horizontal	306	1.49	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3884G	53.78	54.00	-0.22	3	Vertical	360	1.57	-
2422MHz	Pass	AV	2.4316G	112.75	Inf	-Inf	3	Vertical	360	1.57	-
2422MHz	Pass	AV	2.4872G	46.98	54.00	-7.02	3	Vertical	360	1.57	-
2422MHz	Pass	PK	2.3892G	65.33	74.00	-8.67	3	Vertical	360	1.57	-
2422MHz	Pass	PK	2.4324G	122.77	Inf	-Inf	3	Vertical	360	1.57	-
2422MHz	Pass	PK	2.484G	59.38	74.00	-14.62	3	Vertical	360	1.57	-
2422MHz	Pass	AV	2.39G	46.42	54.00	-7.58	3	Horizontal	72	1.53	-
2422MHz	Pass	AV	2.4196G	104.69	Inf	-Inf	3	Horizontal	72	1.53	-
2422MHz	Pass	AV	2.4864G	44.87	54.00	-9.13	3	Horizontal	72	1.53	-
2422MHz	Pass	PK	2.39G	58.01	74.00	-15.99	3	Horizontal	72	1.53	-
2422MHz	Pass	PK	2.4176G	114.75	Inf	-Inf	3	Horizontal	72	1.53	-
2422MHz	Pass	PK	2.4972G	56.95	74.00	-17.05	3	Horizontal	72	1.53	-
2422MHz	Pass	AV	4.829G	35.46	54.00	-18.54	3	Vertical	353	1.50	-
2422MHz	Pass	AV	7.275G	37.60	54.00	-16.40	3	Vertical	324	1.77	-
2422MHz	Pass	PK	4.82972G	53.13	74.00	-20.87	3	Vertical	353	1.50	-
2422MHz	Pass	PK	7.2591G	51.39	74.00	-22.61	3	Vertical	324	1.77	-
2422MHz	Pass	AV	4.832G	35.79	54.00	-18.21	3	Horizontal	357	1.50	-
2422MHz	Pass	AV	7.25364G	38.04	54.00	-15.96	3	Horizontal	213	1.94	-
2422MHz	Pass	PK	4.84034G	49.37	74.00	-24.63	3	Horizontal	357	1.50	-

Remark :
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2422MHz	Pass	PK	7.25922G	51.60	74.00	-22.40	3	Horizontal	213	1.94	-
2437MHz	Pass	AV	2.3894G	47.40	54.00	-6.60	3	Vertical	266	1.64	-
2437MHz	Pass	AV	2.4326G	110.04	Inf	-Inf	3	Vertical	266	1.64	-
2437MHz	Pass	AV	2.4835G	50.79	54.00	-3.21	3	Vertical	266	1.64	-
2437MHz	Pass	PK	2.3894G	59.52	74.00	-14.48	3	Vertical	266	1.64	-
2437MHz	Pass	PK	2.4186G	119.06	Inf	-Inf	3	Vertical	266	1.64	-
2437MHz	Pass	PK	2.4835G	62.55	74.00	-11.45	3	Vertical	266	1.64	-
2437MHz	Pass	AV	2.3894G	47.40	54.00	-6.60	3	Horizontal	197	1.63	-
2437MHz	Pass	AV	2.4474G	102.90	Inf	-Inf	3	Horizontal	197	1.63	-
2437MHz	Pass	AV	2.4842G	49.19	54.00	-4.81	3	Horizontal	197	1.63	-
2437MHz	Pass	PK	2.347G	59.84	74.00	-14.16	3	Horizontal	197	1.63	-
2437MHz	Pass	PK	2.4474G	112.33	Inf	-Inf	3	Horizontal	197	1.63	-
2437MHz	Pass	PK	2.4838G	61.80	74.00	-12.20	3	Horizontal	197	1.63	-
2437MHz	Pass	AV	4.87276G	35.86	54.00	-18.14	3	Vertical	336	1.50	-
2437MHz	Pass	AV	7.29606G	39.58	54.00	-14.42	3	Vertical	133	1.37	-
2437MHz	Pass	PK	4.87052G	50.89	74.00	-23.11	3	Vertical	336	1.50	-
2437MHz	Pass	PK	7.30776G	52.48	74.00	-21.52	3	Vertical	133	1.37	-
2437MHz	Pass	AV	4.87406G	33.53	54.00	-20.47	3	Horizontal	163	1.50	-
2437MHz	Pass	AV	7.30866G	40.27	54.00	-13.73	3	Horizontal	353	1.93	-
2437MHz	Pass	PK	4.86134G	47.52	74.00	-26.48	3	Horizontal	163	1.50	-
2437MHz	Pass	PK	7.31814G	53.90	74.00	-20.10	3	Horizontal	353	1.93	-
2447MHz	Pass	AV	2.359G	46.96	54.00	-7.04	3	Vertical	167	1.65	-
2447MHz	Pass	AV	2.4634G	108.72	Inf	-Inf	3	Vertical	167	1.65	-
2447MHz	Pass	AV	2.4835G	53.10	54.00	-0.90	3	Vertical	167	1.65	-
2447MHz	Pass	PK	2.385G	59.84	74.00	-14.16	3	Vertical	167	1.65	-
2447MHz	Pass	PK	2.4326G	117.17	Inf	-Inf	3	Vertical	167	1.65	-
2447MHz	Pass	PK	2.4835G	64.19	74.00	-9.81	3	Vertical	167	1.65	-
2447MHz	Pass	AV	2.3666G	46.88	54.00	-7.12	3	Horizontal	205	1.65	-
2447MHz	Pass	AV	2.4546G	102.84	Inf	-Inf	3	Horizontal	205	1.65	-
2447MHz	Pass	AV	2.4862G	50.59	54.00	-3.41	3	Horizontal	205	1.65	-
2447MHz	Pass	PK	2.3618G	59.57	74.00	-14.43	3	Horizontal	205	1.65	-
2447MHz	Pass	PK	2.4498G	111.23	Inf	-Inf	3	Horizontal	205	1.65	-
2447MHz	Pass	PK	2.485G	61.63	74.00	-12.37	3	Horizontal	205	1.65	-
2447MHz	Pass	AV	4.9904G	39.97	54.00	-14.03	3	Vertical	168	1.87	-
2447MHz	Pass	AV	7.2994G	37.81	54.00	-16.19	3	Vertical	88	2.07	-
2447MHz	Pass	PK	4.9928G	52.57	74.00	-21.43	3	Vertical	168	1.87	-
2447MHz	Pass	PK	7.3154G	50.69	74.00	-23.31	3	Vertical	88	2.07	-
2447MHz	Pass	AV	4.9872G	35.95	54.00	-18.05	3	Horizontal	248	1.91	-
2447MHz	Pass	AV	7.299G	37.81	54.00	-16.19	3	Horizontal	29	1.02	-
2447MHz	Pass	PK	4.986G	49.13	74.00	-24.87	3	Horizontal	248	1.91	-
2447MHz	Pass	PK	7.3102G	52.03	74.00	-21.97	3	Horizontal	29	1.02	-
2452MHz	Pass	AV	2.3844G	46.04	54.00	-7.96	3	Vertical	360	1.57	-
2452MHz	Pass	AV	2.4436G	110.90	Inf	-Inf	3	Vertical	360	1.57	-
2452MHz	Pass	AV	2.4884G	53.29	54.00	-0.71	3	Vertical	360	1.57	-
2452MHz	Pass	PK	2.3884G	58.36	74.00	-15.64	3	Vertical	360	1.57	-
2452MHz	Pass	PK	2.4404G	120.98	Inf	-Inf	3	Vertical	360	1.57	-
2452MHz	Pass	PK	2.4888G	65.82	74.00	-8.18	3	Vertical	360	1.57	-
2452MHz	Pass	AV	2.3532G	44.59	54.00	-9.41	3	Horizontal	75	1.47	-
2452MHz	Pass	AV	2.466G	101.17	Inf	-Inf	3	Horizontal	75	1.47	-

Remark :
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

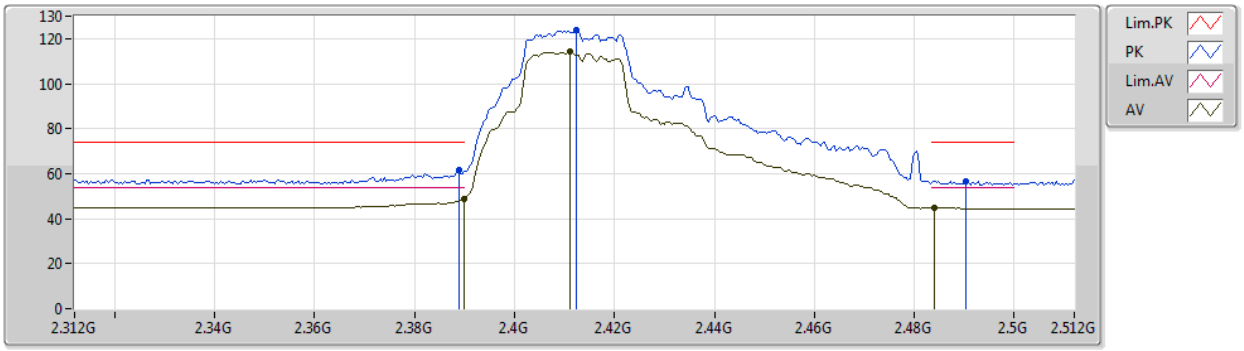
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2452MHz	Pass	AV	2.4856G	46.03	54.00	-7.97	3	Horizontal	75	1.47	-
2452MHz	Pass	PK	2.3552G	57.43	74.00	-16.57	3	Horizontal	75	1.47	-
2452MHz	Pass	PK	2.4656G	109.85	Inf	-Inf	3	Horizontal	75	1.47	-
2452MHz	Pass	PK	2.49G	57.81	74.00	-16.19	3	Horizontal	75	1.47	-
2452MHz	Pass	AV	4.89194G	39.84	54.00	-14.16	3	Vertical	332	1.45	-
2452MHz	Pass	AV	7.35576G	37.11	54.00	-16.89	3	Vertical	62	1.11	-
2452MHz	Pass	PK	4.90292G	52.19	74.00	-21.81	3	Vertical	332	1.45	-
2452MHz	Pass	PK	7.34604G	50.79	74.00	-23.21	3	Vertical	62	1.11	-
2452MHz	Pass	AV	4.892G	35.52	54.00	-18.48	3	Horizontal	360	1.88	-
2452MHz	Pass	AV	7.34214G	37.56	54.00	-16.44	3	Horizontal	55	1.66	-
2452MHz	Pass	PK	4.90064G	49.01	74.00	-24.99	3	Horizontal	360	1.88	-
2452MHz	Pass	PK	7.34472G	52.29	74.00	-21.71	3	Horizontal	55	1.66	-

Remark :
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	49.00	54.00	-5.00	31.54	3	Vertical	15	1.47	-	17.46	27.54	4.00	-
AV	2.4112G	114.30	Inf	-Inf	31.50	3	Vertical	15	1.47	-	82.80	27.48	4.02	-
AV	2.484G	44.64	54.00	-9.36	31.41	3	Vertical	15	1.47	-	13.23	27.33	4.08	-
PK	2.3888G	61.83	74.00	-12.17	31.54	3	Vertical	15	1.47	-	30.29	27.54	4.00	-
PK	2.4124G	124.08	Inf	-Inf	31.50	3	Vertical	15	1.47	-	92.58	27.48	4.02	-
PK	2.4904G	56.73	74.00	-17.27	31.41	3	Vertical	15	1.47	-	25.32	27.32	4.09	-

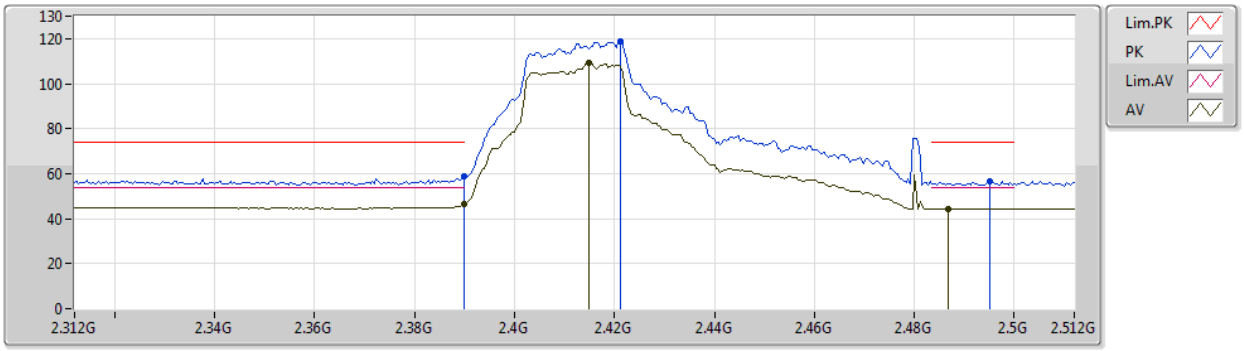
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	46.45	54.00	-7.55	31.54	3	Horizontal	73	1.53	-	14.91	27.54	4.00	-
AV	2.4148G	109.13	Inf	-Inf	31.49	3	Horizontal	73	1.53	-	77.64	27.47	4.02	-
AV	2.4868G	44.39	54.00	-9.61	31.42	3	Horizontal	73	1.53	-	12.97	27.33	4.09	-
PK	2.39G	58.84	74.00	-15.16	31.54	3	Horizontal	73	1.53	-	27.30	27.54	4.00	-
PK	2.4212G	118.68	Inf	-Inf	31.49	3	Horizontal	73	1.53	-	87.19	27.46	4.03	-
PK	2.4952G	56.87	74.00	-17.13	31.41	3	Horizontal	73	1.53	-	25.46	27.31	4.10	-

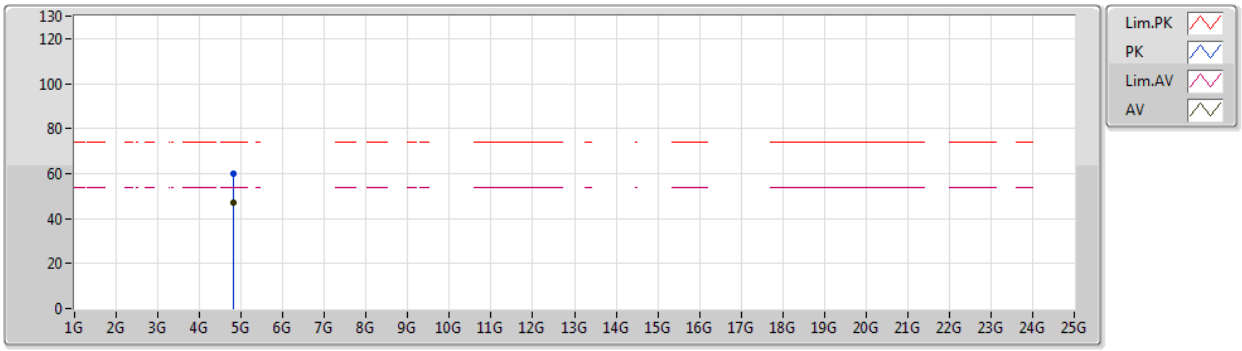
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.812G	47.10	54.00	-6.90	7.48	3	Vertical	74	1.66	-	39.62	31.11	5.78	29.41
PK	4.8117G	59.92	74.00	-14.08	7.48	3	Vertical	74	1.66	-	52.44	31.11	5.78	29.41

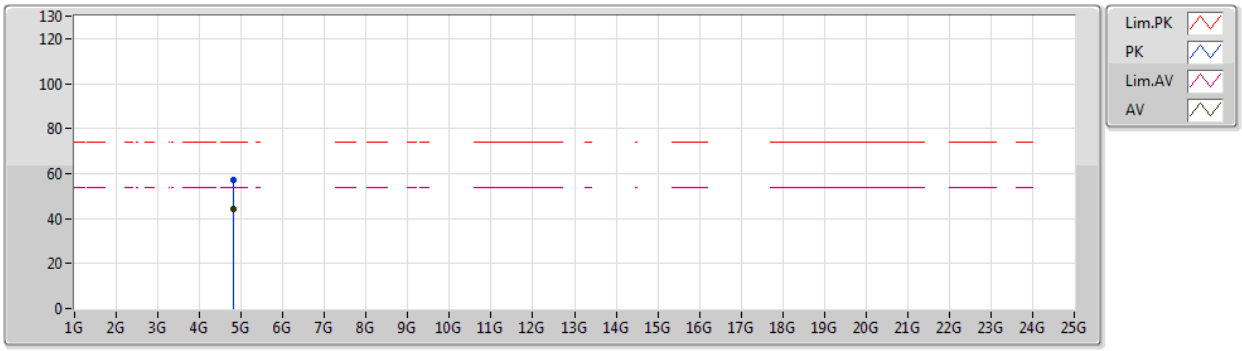
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.809G	44.50	54.00	-9.50	7.48	3	Horizontal	303	1.84	-	37.02	31.11	5.78	29.41
PK	4.8117G	56.90	74.00	-17.10	7.48	3	Horizontal	303	1.84	-	49.42	31.11	5.78	29.41

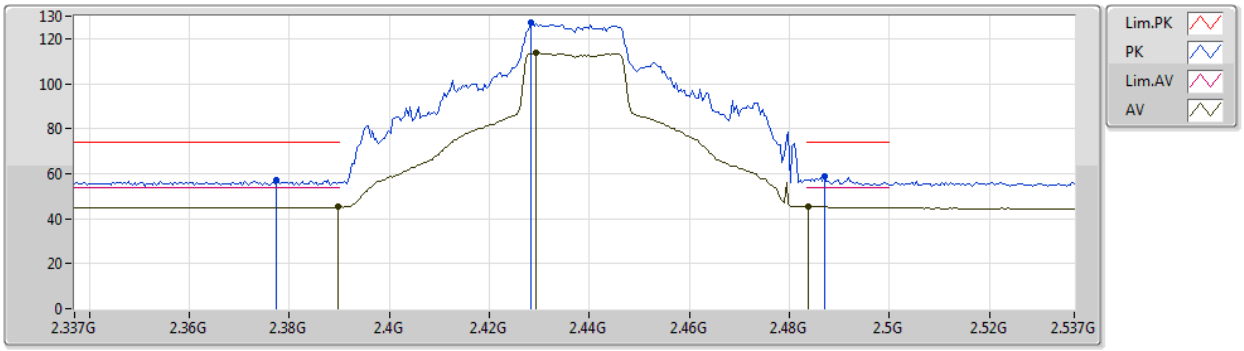
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

21/01/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	45.12	54.00	-8.88	31.54	3	Vertical	347	1.60	-	13.58	27.54	4.00	-
AV	2.4294G	113.58	Inf	-Inf	31.47	3	Vertical	347	1.60	-	82.11	27.44	4.03	-
AV	2.4838G	45.34	54.00	-8.66	31.41	3	Vertical	347	1.60	-	13.93	27.33	4.08	-
PK	2.3774G	57.43	74.00	-16.57	31.57	3	Vertical	347	1.60	-	25.86	27.59	3.98	-
PK	2.4282G	126.98	Inf	-Inf	31.47	3	Vertical	347	1.60	-	95.51	27.44	4.03	-
PK	2.487G	58.63	74.00	-15.37	31.42	3	Vertical	347	1.60	-	27.21	27.33	4.09	-

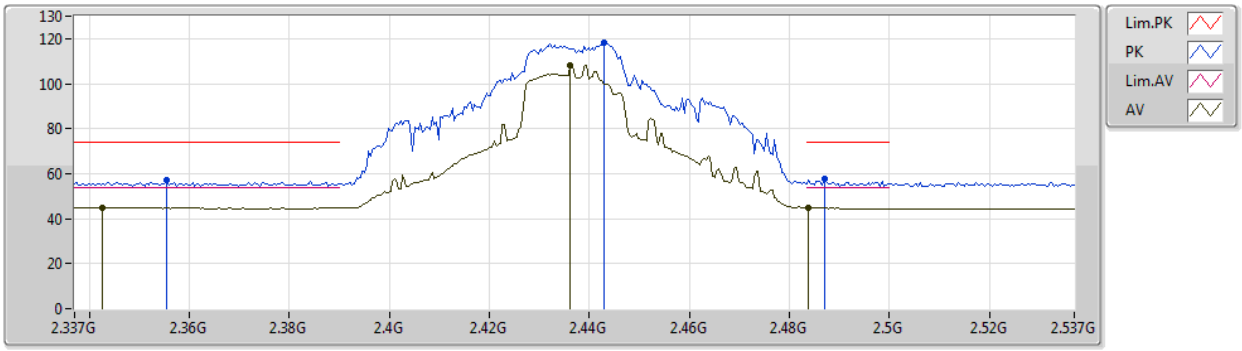
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

21/01/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3426G	44.77	54.00	-9.23	31.68	3	Horizontal	0	2.96	-	13.09	27.73	3.95	-
AV	2.4362G	108.24	Inf	-Inf	31.47	3	Horizontal	0	2.96	-	76.77	27.43	4.04	-
AV	2.4838G	44.84	54.00	-9.16	31.41	3	Horizontal	0	2.96	-	13.43	27.33	4.08	-
PK	2.3554G	57.21	74.00	-16.79	31.64	3	Horizontal	0	2.96	-	25.57	27.68	3.96	-
PK	2.443G	118.19	Inf	-Inf	31.46	3	Horizontal	0	2.96	-	86.73	27.41	4.05	-
PK	2.487G	57.44	74.00	-16.56	31.42	3	Horizontal	0	2.96	-	26.02	27.33	4.09	-

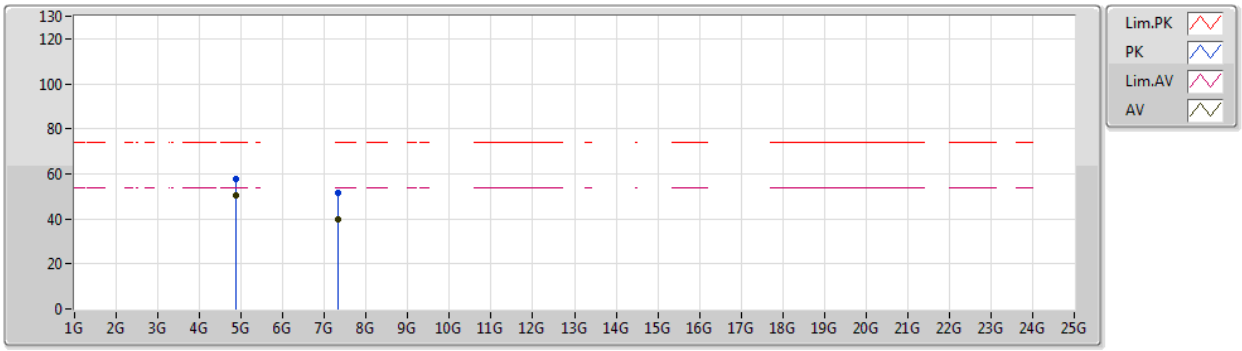
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

21/01/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.874G	50.16	54.00	-3.84	7.62	3	Vertical	360	1.50	-	42.54	31.17	5.83	29.38
AV	7.31268G	39.72	54.00	-14.28	13.40	3	Vertical	283	1.50	-	26.32	36.29	7.47	30.36
PK	4.86956G	57.96	74.00	-16.04	7.62	3	Vertical	360	1.50	-	50.34	31.17	5.83	29.38
PK	7.31802G	51.83	74.00	-22.17	13.38	3	Vertical	283	1.50	-	38.45	36.28	7.46	30.36

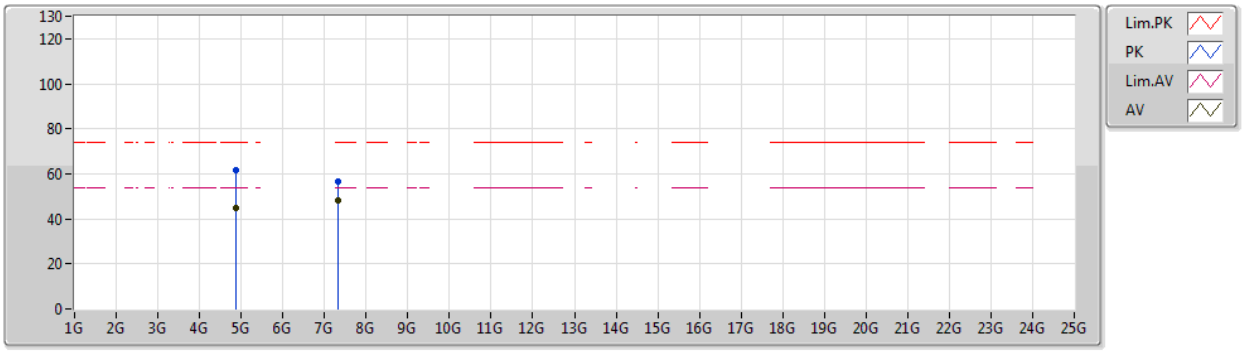
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

21/01/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87394G	44.81	54.00	-9.19	7.62	3	Horizontal	325	1.97	-	37.19	31.17	5.83	29.38
AV	7.31184G	48.13	54.00	-5.87	13.41	3	Horizontal	272	2.48	-	34.72	36.29	7.48	30.36
PK	4.87046G	61.77	74.00	-12.23	7.62	3	Horizontal	325	1.97	-	54.15	31.17	5.83	29.38
PK	7.31376G	56.33	74.00	-17.67	13.40	3	Horizontal	272	2.48	-	42.93	36.29	7.47	30.36

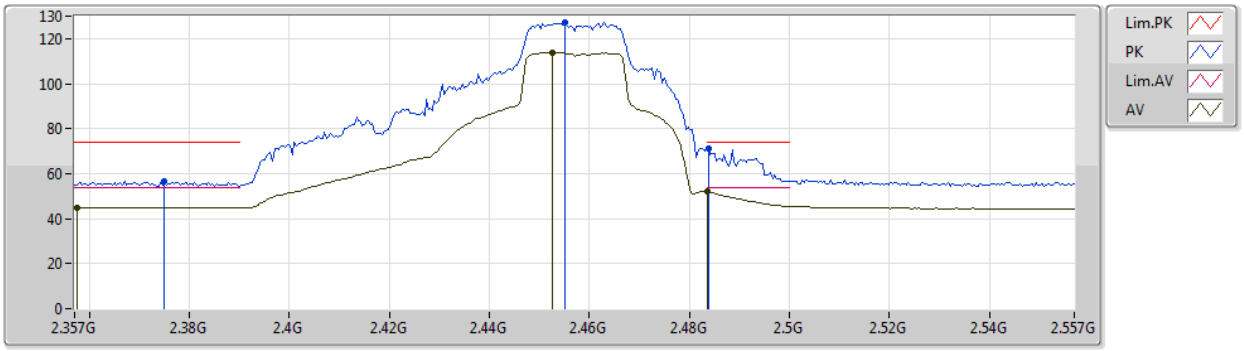
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2457MHz_TX

21/01/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3574G	44.83	54.00	-9.17	31.64	3	Vertical	344	1.54	-	13.19	27.67	3.97	-
AV	2.4526G	113.85	Inf	-Inf	31.45	3	Vertical	344	1.54	-	82.40	27.39	4.06	-
AV	2.4835G	52.10	54.00	-1.90	31.41	3	Vertical	344	1.54	-	20.69	27.33	4.08	-
PK	2.375G	56.81	74.00	-17.19	31.58	3	Vertical	344	1.54	-	25.23	27.60	3.98	-
PK	2.455G	127.22	Inf	-Inf	31.45	3	Vertical	344	1.54	-	95.77	27.39	4.06	-
PK	2.4838G	71.41	74.00	-2.59	31.41	3	Vertical	344	1.54	-	40.00	27.33	4.08	-

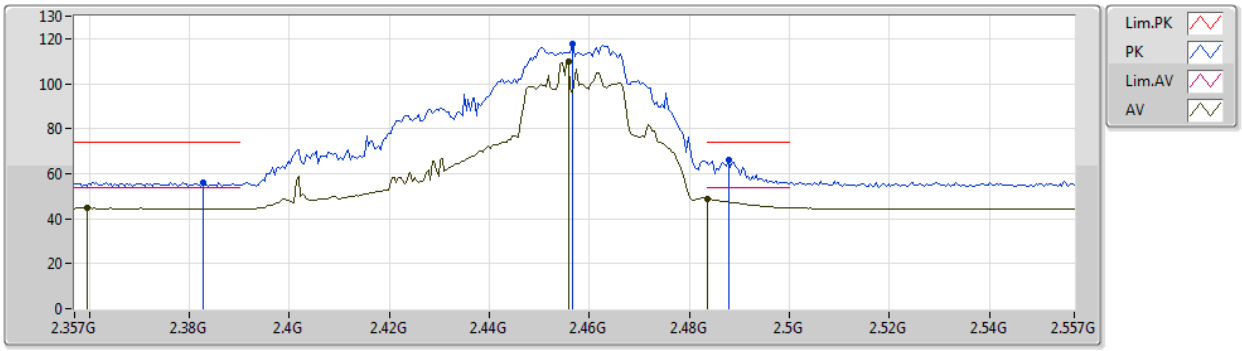
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2457MHz_TX

21/01/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3594G	44.64	54.00	-9.36	31.63	3	Horizontal	355	3.00	-	13.01	27.66	3.97	-
AV	2.4558G	109.67	Inf	-Inf	31.45	3	Horizontal	355	3.00	-	78.22	27.39	4.06	-
AV	2.4835G	48.98	54.00	-5.02	31.41	3	Horizontal	355	3.00	-	17.57	27.33	4.08	-
PK	2.3826G	56.30	74.00	-17.70	31.56	3	Horizontal	355	3.00	-	24.74	27.57	3.99	-
PK	2.4566G	117.49	Inf	-Inf	31.45	3	Horizontal	355	3.00	-	86.04	27.39	4.06	-
PK	2.4878G	66.40	74.00	-7.60	31.41	3	Horizontal	355	3.00	-	34.99	27.32	4.09	-

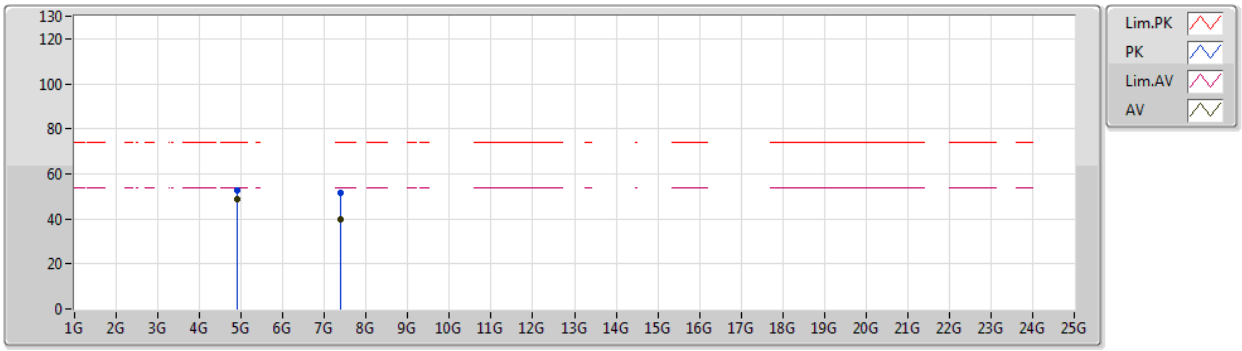
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2457MHz_TX

21/01/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.91418G	48.78	54.00	-5.22	7.74	3	Vertical	279	2.94	-	41.04	31.24	5.86	29.36
AV	7.37202G	39.60	54.00	-14.40	13.19	3	Vertical	278	1.43	-	26.41	36.23	7.37	30.41
PK	4.91406G	52.87	74.00	-21.13	7.74	3	Vertical	279	2.94	-	45.13	31.24	5.86	29.36
PK	7.37154G	51.65	74.00	-22.35	13.19	3	Vertical	278	1.43	-	38.46	36.23	7.37	30.41

Remark :

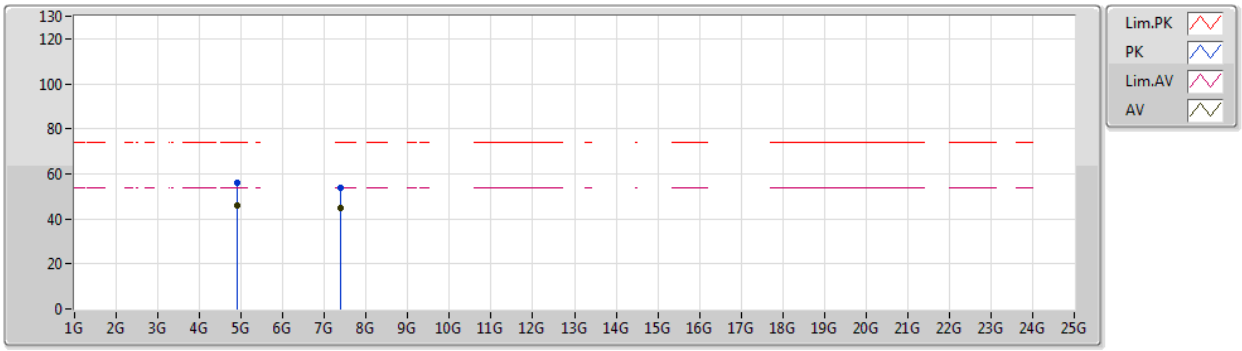
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2457MHz_TX

21/01/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.914G	45.89	54.00	-8.11	7.74	3	Horizontal	55	3.00	-	38.15	31.24	5.86	29.36
AV	7.37208G	44.97	54.00	-9.03	13.19	3	Horizontal	230	2.23	-	31.78	36.23	7.37	30.41
PK	4.91034G	55.81	74.00	-18.19	7.73	3	Horizontal	55	3.00	-	48.08	31.23	5.86	29.36
PK	7.37364G	53.83	74.00	-20.17	13.18	3	Horizontal	230	2.23	-	40.65	36.23	7.36	30.41

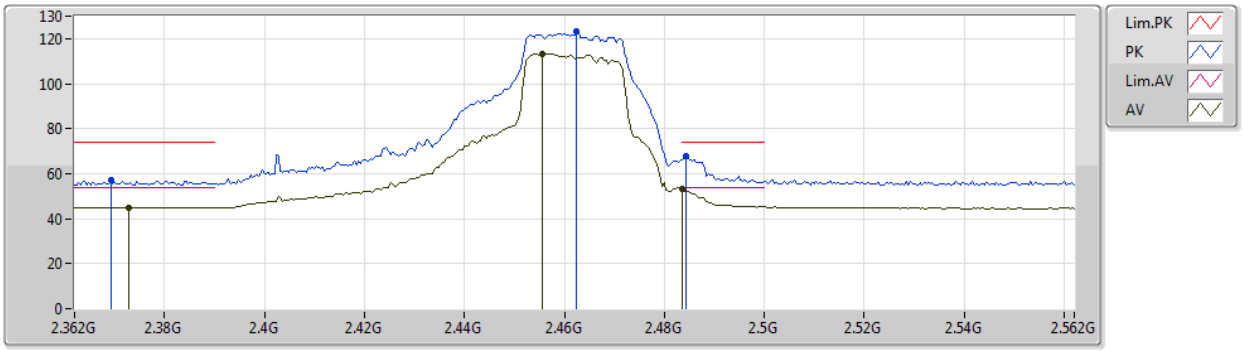
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3728G	44.83	54.00	-9.17	31.59	3	Vertical	353	2.00	-	13.24	27.61	3.98	-
AV	2.4556G	113.13	Inf	-Inf	31.45	3	Vertical	353	2.00	-	81.68	27.39	4.06	-
AV	2.4835G	53.09	54.00	-0.91	31.41	3	Vertical	353	2.00	-	21.68	27.33	4.08	-
PK	2.3692G	56.99	74.00	-17.01	31.60	3	Vertical	353	2.00	-	25.39	27.62	3.98	-
PK	2.4624G	123.38	Inf	-Inf	31.44	3	Vertical	353	2.00	-	91.94	27.38	4.06	-
PK	2.4844G	67.87	74.00	-6.13	31.42	3	Vertical	353	2.00	-	36.45	27.33	4.09	-

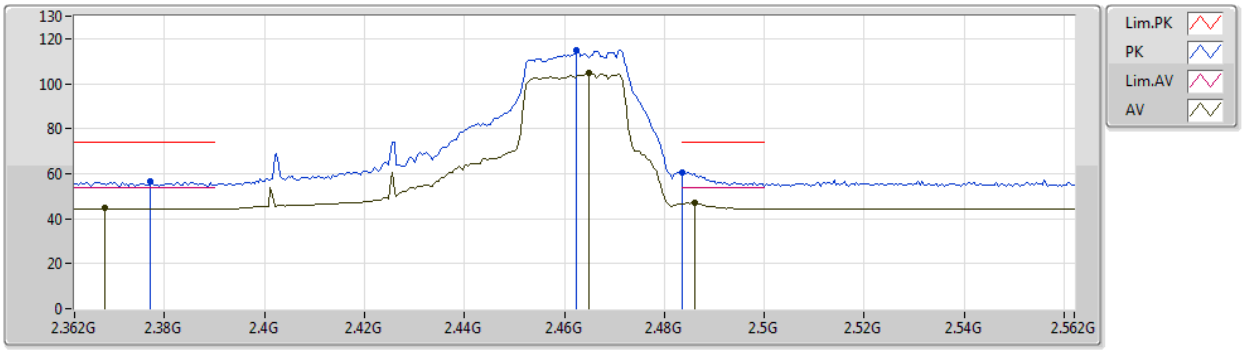
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.368G	44.56	54.00	-9.44	31.61	3	Horizontal	81	1.84	-	12.95	27.63	3.98	-
AV	2.4648G	104.90	Inf	-Inf	31.44	3	Horizontal	81	1.84	-	73.46	27.37	4.07	-
AV	2.486G	47.13	54.00	-6.87	31.42	3	Horizontal	81	1.84	-	15.71	27.33	4.09	-
PK	2.3772G	56.77	74.00	-17.23	31.57	3	Horizontal	81	1.84	-	25.20	27.59	3.98	-
PK	2.4624G	114.95	Inf	-Inf	31.44	3	Horizontal	81	1.84	-	83.51	27.38	4.06	-
PK	2.4835G	60.40	74.00	-13.60	31.41	3	Horizontal	81	1.84	-	28.99	27.33	4.08	-

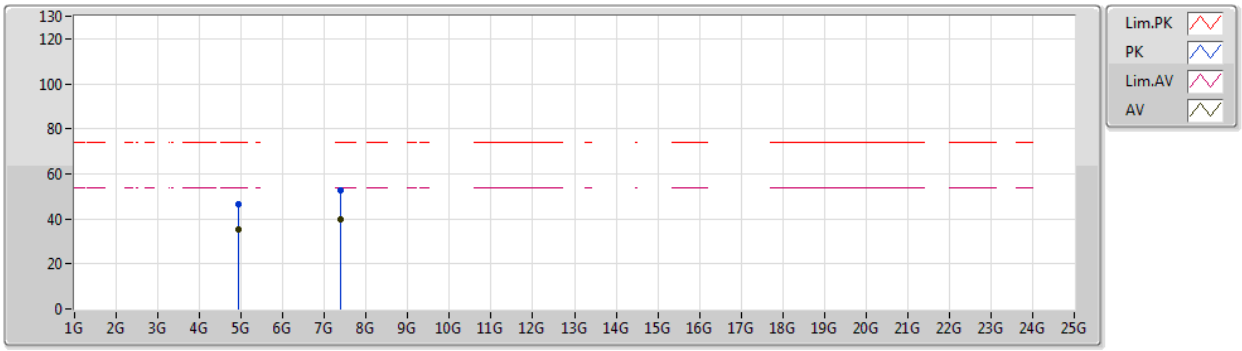
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

21/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92256G	35.58	54.00	-18.42	7.77	3	Vertical	97	1.64	-	27.81	31.27	5.86	29.36
AV	7.38678G	39.82	54.00	-14.18	13.13	3	Vertical	11	1.50	-	26.69	36.21	7.34	30.42
PK	4.92502G	46.41	74.00	-27.59	7.80	3	Vertical	97	1.64	-	38.61	31.28	5.87	29.35
PK	7.386G	52.46	74.00	-21.54	13.13	3	Vertical	11	1.50	-	39.33	36.21	7.34	30.42

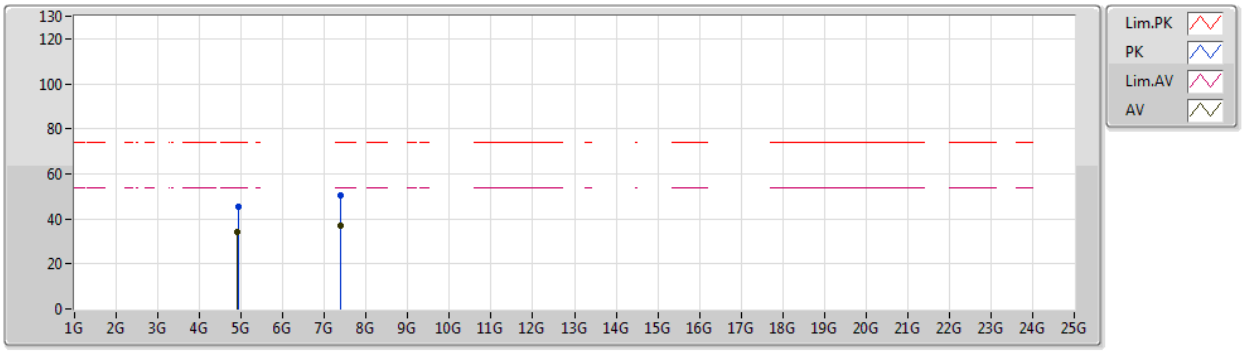
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

21/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.91098G	34.38	54.00	-19.62	7.73	3	Horizontal	66	1.33	-	26.65	31.23	5.86	29.36
AV	7.3782G	37.03	54.00	-16.97	13.15	3	Horizontal	306	1.49	-	23.88	36.22	7.35	30.42
PK	4.93054G	45.51	74.00	-28.49	7.81	3	Horizontal	66	1.33	-	37.70	31.29	5.87	29.35
PK	7.37718G	50.65	74.00	-23.35	13.17	3	Horizontal	306	1.49	-	37.48	36.22	7.36	30.41

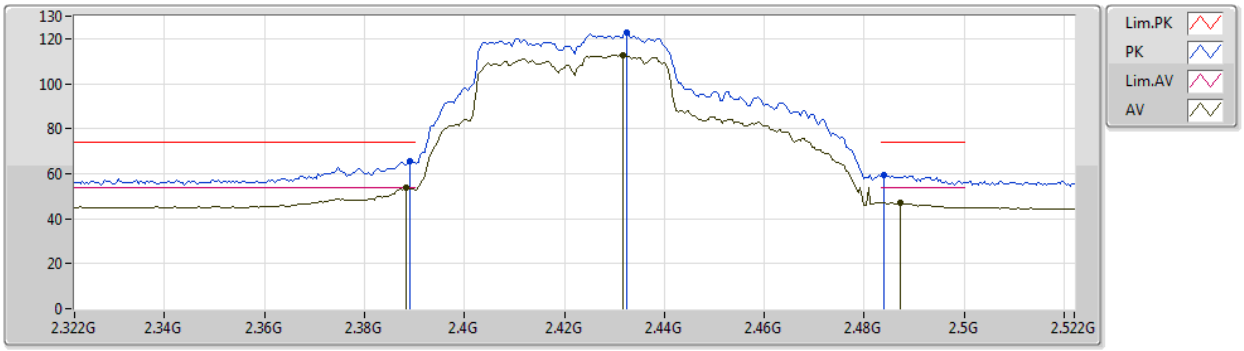
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3884G	53.78	54.00	-0.22	31.55	3	Vertical	360	1.57	-	22.23	27.55	4.00	-
AV	2.4316G	112.75	Inf	-Inf	31.48	3	Vertical	360	1.57	-	81.27	27.44	4.04	-
AV	2.4872G	46.98	54.00	-7.02	31.42	3	Vertical	360	1.57	-	15.56	27.33	4.09	-
PK	2.3892G	65.33	74.00	-8.67	31.54	3	Vertical	360	1.57	-	33.79	27.54	4.00	-
PK	2.4324G	122.77	Inf	-Inf	31.48	3	Vertical	360	1.57	-	91.29	27.44	4.04	-
PK	2.484G	59.38	74.00	-14.62	31.41	3	Vertical	360	1.57	-	27.97	27.33	4.08	-

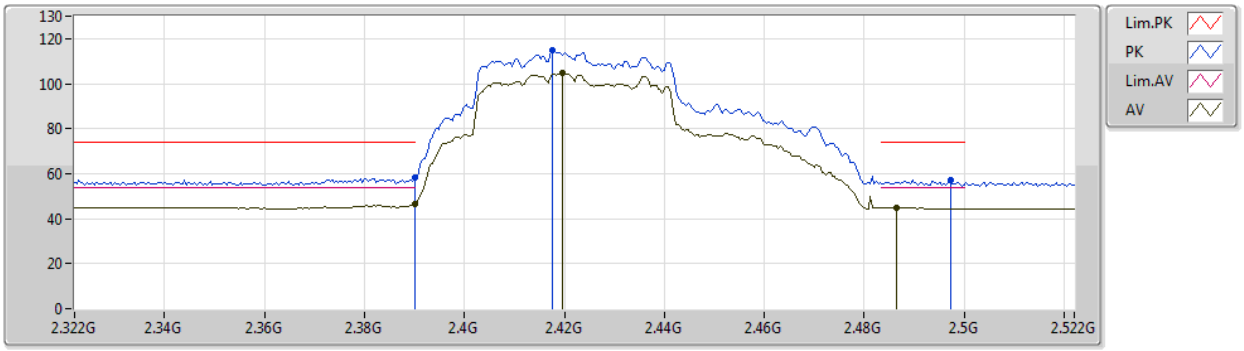
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	46.42	54.00	-7.58	31.54	3	Horizontal	72	1.53	-	14.88	27.54	4.00	-
AV	2.4196G	104.69	Inf	-Inf	31.48	3	Horizontal	72	1.53	-	73.21	27.46	4.02	-
AV	2.4864G	44.87	54.00	-9.13	31.42	3	Horizontal	72	1.53	-	13.45	27.33	4.09	-
PK	2.39G	58.01	74.00	-15.99	31.54	3	Horizontal	72	1.53	-	26.47	27.54	4.00	-
PK	2.4176G	114.75	Inf	-Inf	31.48	3	Horizontal	72	1.53	-	83.27	27.46	4.02	-
PK	2.4972G	56.95	74.00	-17.05	31.41	3	Horizontal	72	1.53	-	25.54	27.31	4.10	-

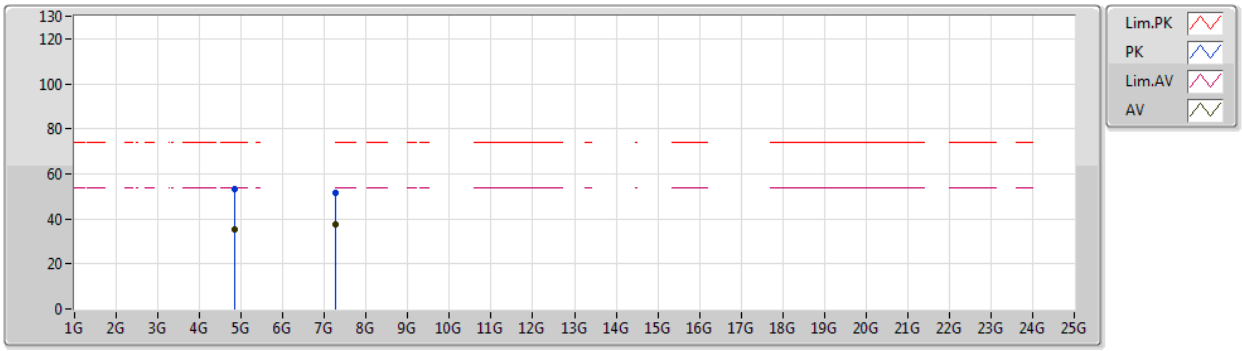
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

21/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.829G	35.46	54.00	-18.54	7.53	3	Vertical	353	1.50	-	27.93	31.13	5.80	29.40
AV	7.275G	37.60	54.00	-16.40	13.46	3	Vertical	324	1.77	-	24.14	36.25	7.54	30.33
PK	4.829725G	53.13	74.00	-20.87	7.53	3	Vertical	353	1.50	-	45.60	31.13	5.80	29.40
PK	7.2591G	51.39	74.00	-22.61	13.48	3	Vertical	324	1.77	-	37.91	36.22	7.57	30.31

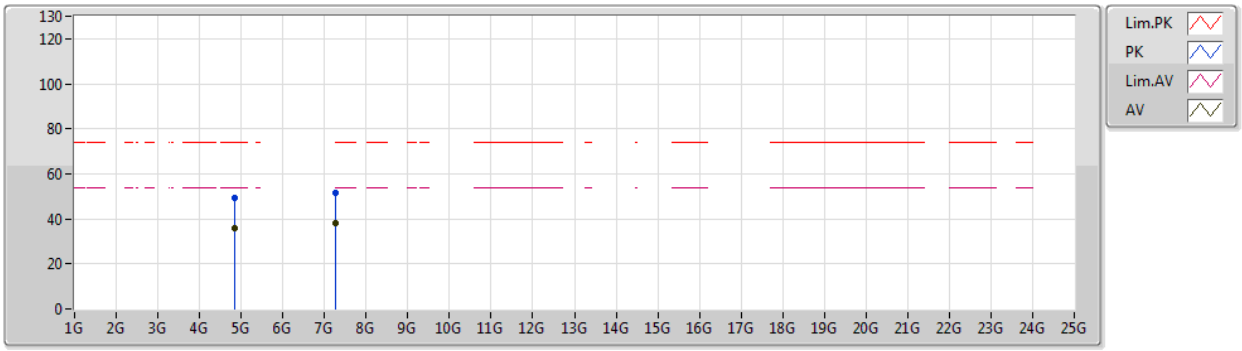
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

21/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.832G	35.79	54.00	-18.21	7.53	3	Horizontal	357	1.50	-	28.26	31.13	5.80	29.40
AV	7.25364G	38.04	54.00	-15.96	13.48	3	Horizontal	213	1.94	-	24.56	36.21	7.58	30.31
PK	4.84034G	49.37	74.00	-24.63	7.56	3	Horizontal	357	1.50	-	41.81	31.14	5.81	29.39
PK	7.25922G	51.60	74.00	-22.40	13.48	3	Horizontal	213	1.94	-	38.12	36.22	7.57	30.31

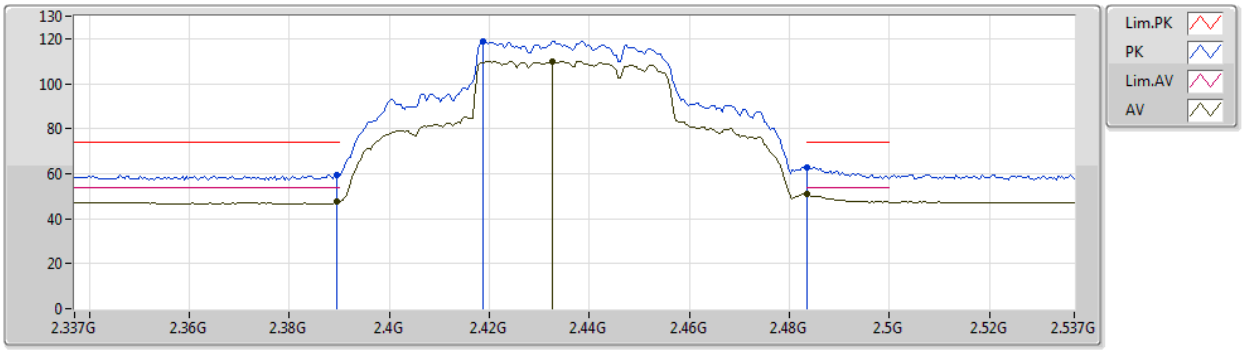
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	47.40	54.00	-6.60	31.54	3	Vertical	266	1.64	-	15.86	27.54	4.00	-
AV	2.4326G	110.04	Inf	-Inf	31.47	3	Vertical	266	1.64	-	78.57	27.43	4.04	-
AV	2.4835G	50.79	54.00	-3.21	31.41	3	Vertical	266	1.64	-	19.38	27.33	4.08	-
PK	2.3894G	59.52	74.00	-14.48	31.54	3	Vertical	266	1.64	-	27.98	27.54	4.00	-
PK	2.4186G	119.06	Inf	-Inf	31.48	3	Vertical	266	1.64	-	87.58	27.46	4.02	-
PK	2.4835G	62.55	74.00	-11.45	31.41	3	Vertical	266	1.64	-	31.14	27.33	4.08	-

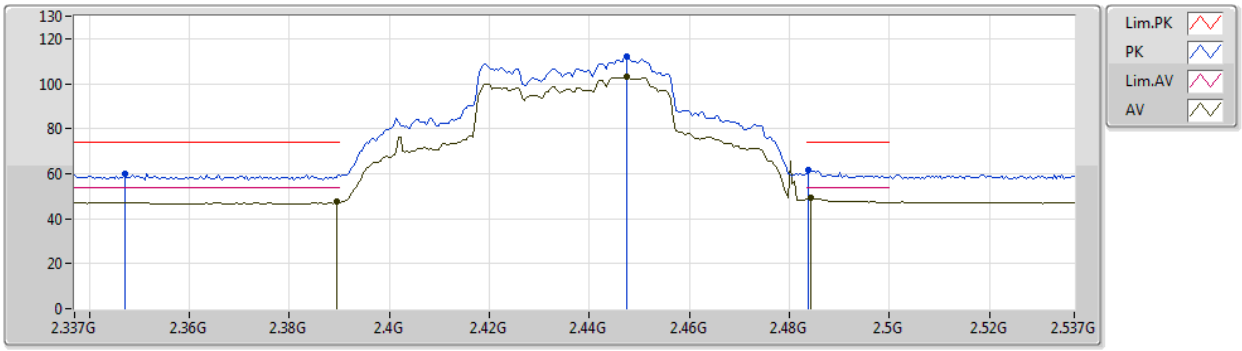
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	47.40	54.00	-6.60	31.54	3	Horizontal	197	1.63	-	15.86	27.54	4.00	-
AV	2.4474G	102.90	Inf	-Inf	31.46	3	Horizontal	197	1.63	-	71.44	27.41	4.05	-
AV	2.4842G	49.19	54.00	-4.81	31.42	3	Horizontal	197	1.63	-	17.77	27.33	4.09	-
PK	2.347G	59.84	74.00	-14.16	31.67	3	Horizontal	197	1.63	-	28.17	27.71	3.96	-
PK	2.4474G	112.33	Inf	-Inf	31.46	3	Horizontal	197	1.63	-	80.87	27.41	4.05	-
PK	2.4838G	61.80	74.00	-12.20	31.41	3	Horizontal	197	1.63	-	30.39	27.33	4.08	-

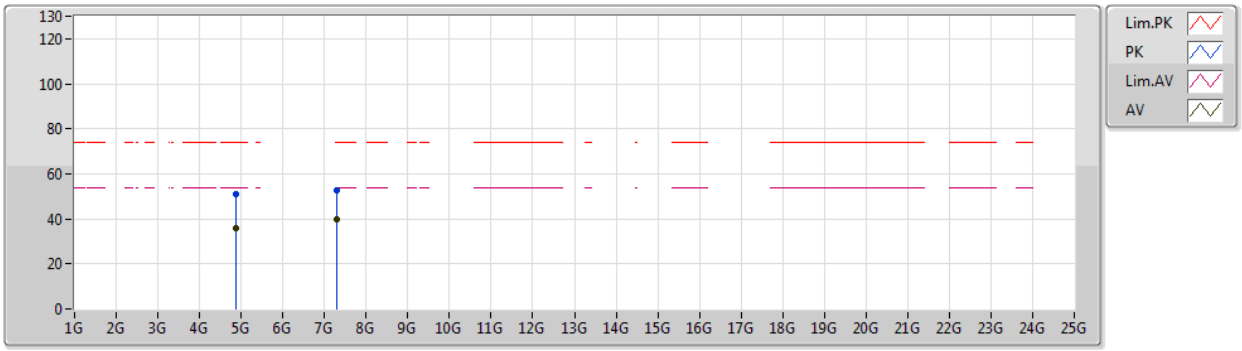
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87276G	35.86	54.00	-18.14	7.62	3	Vertical	336	1.50	-	28.24	31.17	5.83	29.38
AV	7.29606G	39.58	54.00	-14.42	13.46	3	Vertical	133	1.37	-	26.12	36.29	7.51	30.34
PK	4.87052G	50.89	74.00	-23.11	7.62	3	Vertical	336	1.50	-	43.27	31.17	5.83	29.38
PK	7.30776G	52.48	74.00	-21.52	13.42	3	Vertical	133	1.37	-	39.06	36.29	7.48	30.35

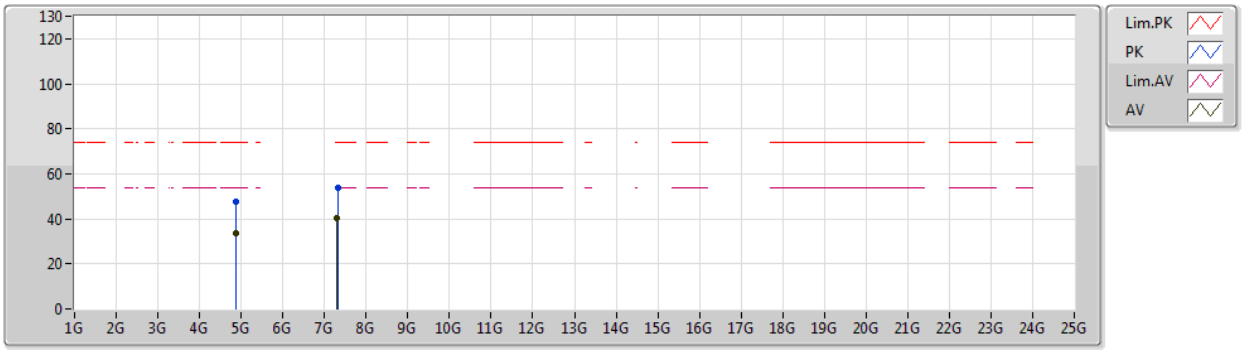
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87406G	33.53	54.00	-20.47	7.62	3	Horizontal	163	1.50	-	25.91	31.17	5.83	29.38
AV	7.30866G	40.27	54.00	-13.73	13.41	3	Horizontal	353	1.93	-	26.86	36.29	7.48	30.36
PK	4.86134G	47.52	74.00	-26.48	7.60	3	Horizontal	163	1.50	-	39.92	31.16	5.82	29.38
PK	7.31814G	53.90	74.00	-20.10	13.38	3	Horizontal	353	1.93	-	40.52	36.28	7.46	30.36

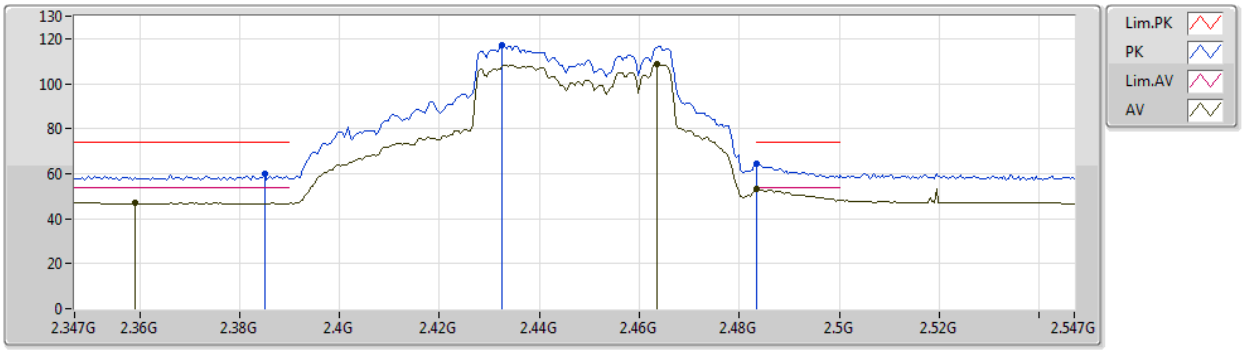
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2447MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.359G	46.96	54.00	-7.04	31.63	3	Vertical	167	1.65	-	15.33	27.66	3.97	-
AV	2.4634G	108.72	Inf	-Inf	31.44	3	Vertical	167	1.65	-	77.28	27.37	4.07	-
AV	2.4835G	53.10	54.00	-0.90	31.41	3	Vertical	167	1.65	-	21.69	27.33	4.08	-
PK	2.385G	59.84	74.00	-14.16	31.55	3	Vertical	167	1.65	-	28.29	27.56	3.99	-
PK	2.4326G	117.17	Inf	-Inf	31.47	3	Vertical	167	1.65	-	85.70	27.43	4.04	-
PK	2.4835G	64.19	74.00	-9.81	31.41	3	Vertical	167	1.65	-	32.78	27.33	4.08	-

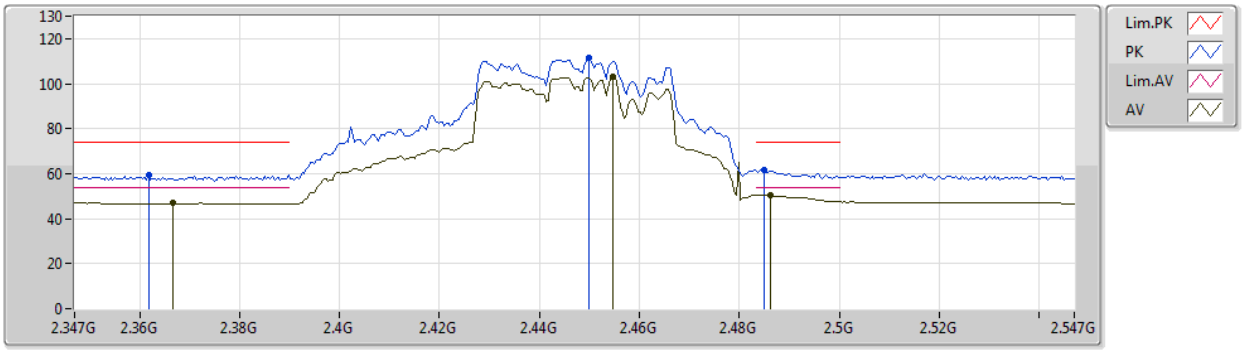
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2447MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3666G	46.88	54.00	-7.12	31.60	3	Horizontal	205	1.65	-	15.28	27.63	3.97	-
AV	2.4546G	102.84	Inf	-Inf	31.45	3	Horizontal	205	1.65	-	71.39	27.39	4.06	-
AV	2.4862G	50.59	54.00	-3.41	31.42	3	Horizontal	205	1.65	-	19.17	27.33	4.09	-
PK	2.3618G	59.57	74.00	-14.43	31.62	3	Horizontal	205	1.65	-	27.95	27.65	3.97	-
PK	2.4498G	111.23	Inf	-Inf	31.45	3	Horizontal	205	1.65	-	79.78	27.40	4.05	-
PK	2.485G	61.63	74.00	-12.37	31.42	3	Horizontal	205	1.65	-	30.21	27.33	4.09	-

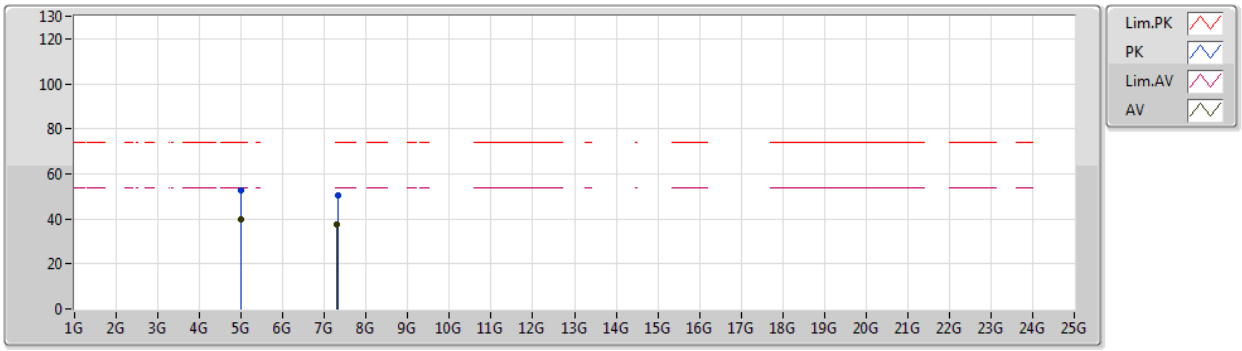
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2447MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9904G	39.97	54.00	-14.03	8.06	3	Vertical	168	1.87	-	31.91	31.47	5.91	29.32
AV	7.2994G	37.81	54.00	-16.19	13.45	3	Vertical	88	2.07	-	24.36	36.30	7.50	30.35
PK	4.9928G	52.57	74.00	-21.43	8.07	3	Vertical	168	1.87	-	44.50	31.48	5.91	29.32
PK	7.3154G	50.69	74.00	-23.31	13.39	3	Vertical	88	2.07	-	37.30	36.28	7.47	30.36

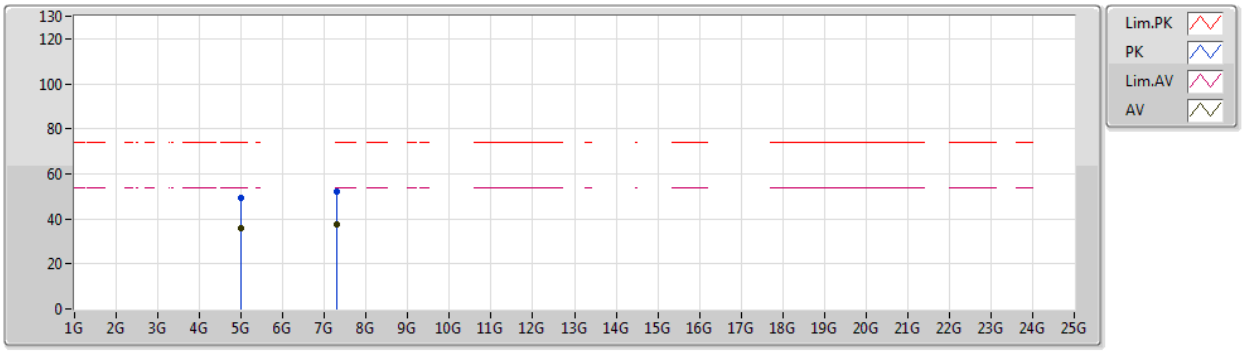
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2447MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9872G	35.95	54.00	-18.05	8.04	3	Horizontal	248	1.91	-	27.91	31.46	5.91	29.33
AV	7.299G	37.81	54.00	-16.19	13.45	3	Horizontal	29	1.02	-	24.36	36.30	7.50	30.35
PK	4.986G	49.13	74.00	-24.87	8.04	3	Horizontal	248	1.91	-	41.09	31.46	5.91	29.33
PK	7.3102G	52.03	74.00	-21.97	13.41	3	Horizontal	29	1.02	-	38.62	36.29	7.48	30.36

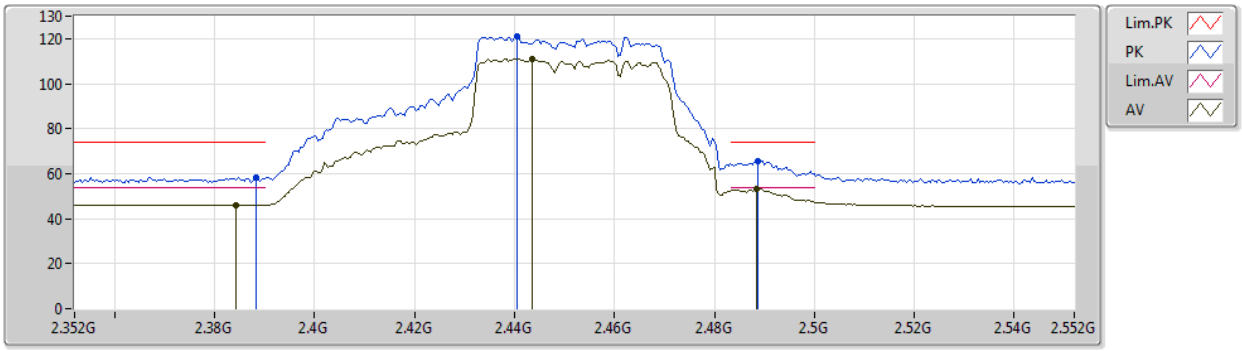
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3844G	46.04	54.00	-7.96	31.55	3	Vertical	360	1.57	-	14.49	27.56	3.99	-
AV	2.4436G	110.90	Inf	-Inf	31.46	3	Vertical	360	1.57	-	79.44	27.41	4.05	-
AV	2.4884G	53.29	54.00	-0.71	31.41	3	Vertical	360	1.57	-	21.88	27.32	4.09	-
PK	2.3884G	58.36	74.00	-15.64	31.55	3	Vertical	360	1.57	-	26.81	27.55	4.00	-
PK	2.4404G	120.98	Inf	-Inf	31.46	3	Vertical	360	1.57	-	89.52	27.42	4.04	-
PK	2.4888G	65.82	74.00	-8.18	31.41	3	Vertical	360	1.57	-	34.41	27.32	4.09	-

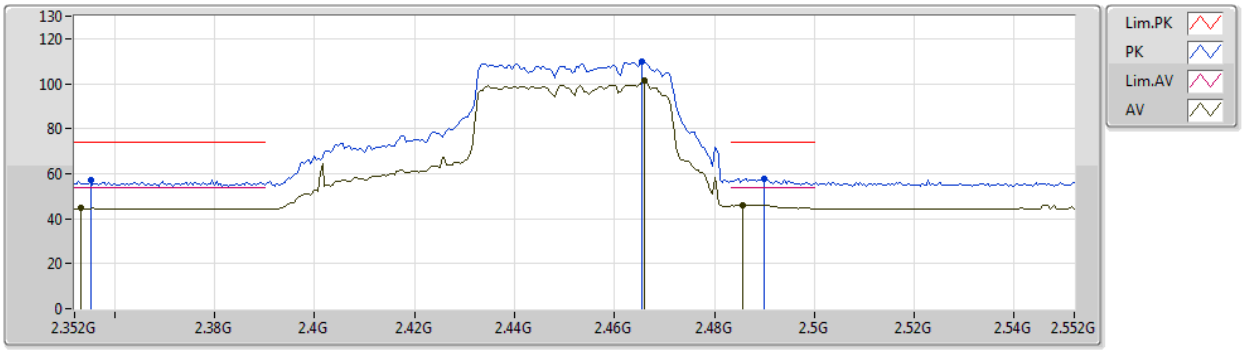
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

07/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3532G	44.59	54.00	-9.41	31.65	3	Horizontal	75	1.47	-	12.94	27.69	3.96	-
AV	2.466G	101.17	Inf	-Inf	31.44	3	Horizontal	75	1.47	-	69.73	27.37	4.07	-
AV	2.4856G	46.03	54.00	-7.97	31.42	3	Horizontal	75	1.47	-	14.61	27.33	4.09	-
PK	2.3552G	57.43	74.00	-16.57	31.64	3	Horizontal	75	1.47	-	25.79	27.68	3.96	-
PK	2.4656G	109.85	Inf	-Inf	31.44	3	Horizontal	75	1.47	-	78.41	27.37	4.07	-
PK	2.49G	57.81	74.00	-16.19	31.41	3	Horizontal	75	1.47	-	26.40	27.32	4.09	-

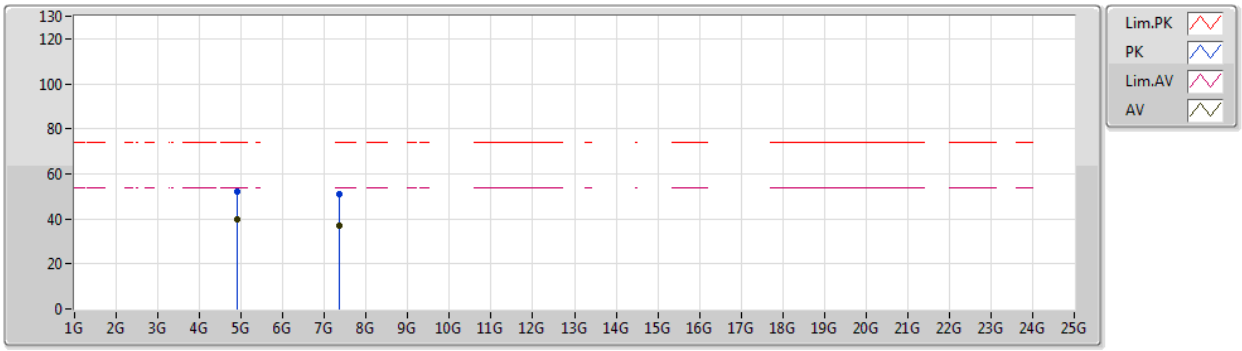
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

21/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.89194G	39.84	54.00	-14.16	7.66	3	Vertical	332	1.45	-	32.18	31.19	5.84	29.37
AV	7.35576G	37.11	54.00	-16.89	13.24	3	Vertical	62	1.11	-	23.87	36.24	7.40	30.40
PK	4.90292G	52.19	74.00	-21.81	7.70	3	Vertical	332	1.45	-	44.49	31.21	5.85	29.36
PK	7.34604G	50.79	74.00	-23.21	13.27	3	Vertical	62	1.11	-	37.52	36.25	7.41	30.39

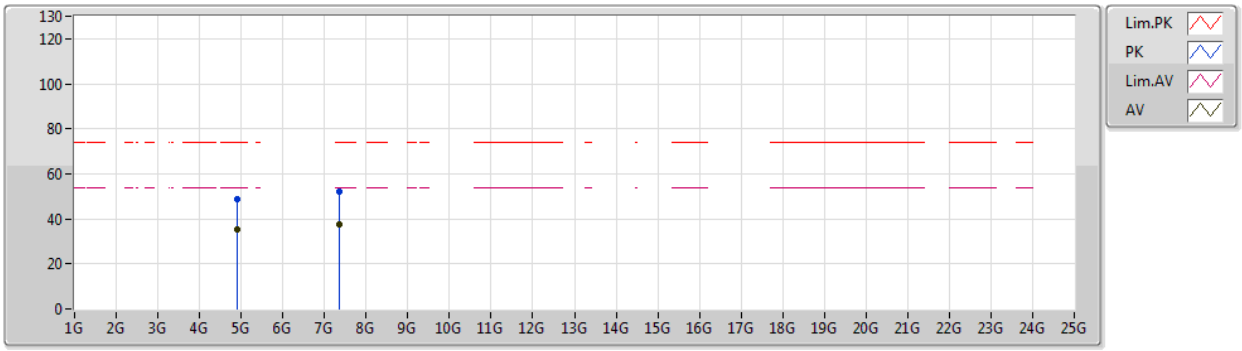
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor) 992407

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

21/02/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.892G	35.52	54.00	-18.48	7.66	3	Horizontal	360	1.88	-	27.86	31.19	5.84	29.37
AV	7.34214G	37.56	54.00	-16.44	13.30	3	Horizontal	55	1.66	-	24.26	36.26	7.42	30.38
PK	4.90064G	49.01	74.00	-24.99	7.68	3	Horizontal	360	1.88	-	41.33	31.20	5.85	29.37
PK	7.34472G	52.29	74.00	-21.71	13.29	3	Horizontal	55	1.66	-	39.00	36.26	7.42	30.39

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

Summary

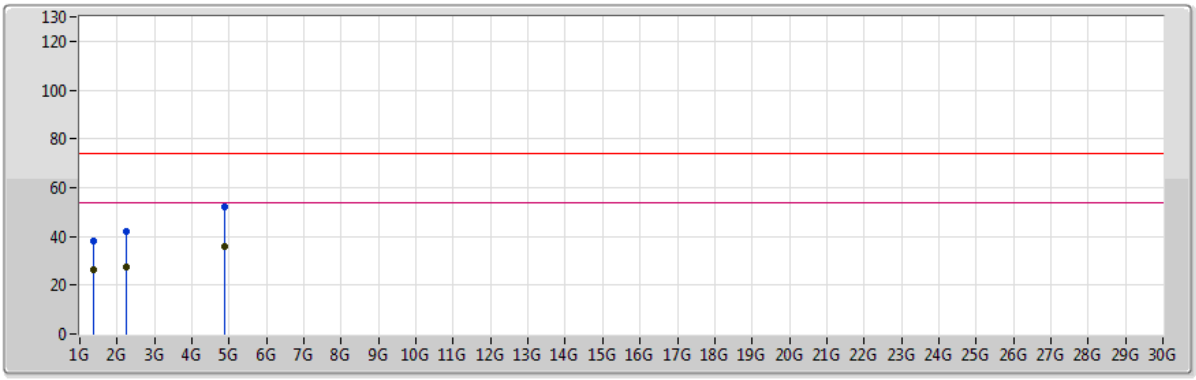
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	AV	4.86G	36.03	54.00	-17.97	7.60	Vertical

Mode Configure

Mode	Configure
Mode 1	2.4G+5G

Radiation-above 1GHz_Mode 1

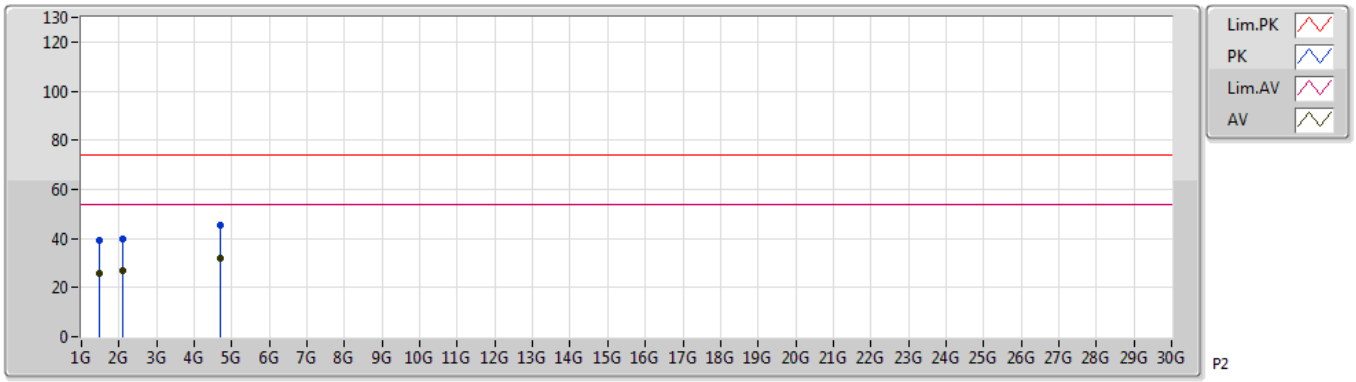
06/03/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	1.376G	26.24	54.00	-27.76	-2.87	3	Vertical	360	1.50	-	29.11	25.88	2.93	31.68
AV	2.252G	27.56	54.00	-26.44	1.52	3	Vertical	360	1.50	-	26.04	27.95	3.87	30.30
AV	4.86G	36.03	54.00	-17.97	7.60	3	Vertical	360	1.50	-	28.43	31.16	5.82	29.38
PK	1.376G	38.14	74.00	-35.86	-2.87	3	Vertical	360	1.50	-	41.01	25.88	2.93	31.68
PK	2.252G	42.07	74.00	-31.93	1.52	3	Vertical	360	1.50	-	40.55	27.95	3.87	30.30
PK	4.86G	52.12	74.00	-21.88	7.60	3	Vertical	360	1.50	-	44.52	31.16	5.82	29.38

Radiation-above 1GHz_Mode 1

06/03/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	1.464G	25.92	54.00	-28.08	-2.56	3	Horizontal	0	1.50	-	28.48	25.71	3.02	31.29
AV	2.084G	26.84	54.00	-27.16	0.28	3	Horizontal	0	1.50	-	26.56	26.96	3.71	30.39
AV	4.704G	32.00	54.00	-22.00	7.35	3	Horizontal	0	1.50	-	24.65	31.10	5.71	29.46
PK	1.464G	38.98	74.00	-35.02	-2.56	3	Horizontal	0	1.50	-	41.54	25.71	3.02	31.29
PK	2.084G	40.05	74.00	-33.95	0.28	3	Horizontal	0	1.50	-	39.77	26.96	3.71	30.39
PK	4.704G	45.54	74.00	-28.46	7.35	3	Horizontal	0	1.50	-	38.19	31.10	5.71	29.46