



RADIO TEST REPORT

FCC ID : 2AHKM-CODA5834
Equipment : DOCSIS 3.1 Wi-Fi 6E Tri-Band EMTA Gateway
Brand Name : Hitron
Model Name : CODA5X3X
(Please refer to section 1.1.5 of the test report for detailed information.)
Applicant : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Manufacturer : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on May 05, 2022, and testing was started from Aug. 20, 2022 and completed on Dec. 01, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.


Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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



1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	SPEED	S-D5-49-6003-004-00	Dipole	I-PEX	Note
2	2	SPEED	S-D5-49-6003-003-00	Dipole	I-PEX	
3	3	SPEED	S-D5-49-6003-002-00	Dipole	I-PEX	
4	4	SPEED	S-D5-49-6003-001-00	Dipole	I-PEX	
5	1	SPEED	S-D5-49-6003-008-00	Dipole	I-PEX	
6	2	SPEED	S-D5-49-6003-007-00	Dipole	I-PEX	
7	3	SPEED	S-D5-49-6003-006-00	Dipole	I-PEX	
8	4	SPEED	S-D5-49-6003-005-00	Dipole	I-PEX	

Note

<Antenna Gain>

Ant.	Antenna Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3
1	3.55	2.97	2.91	2.09	2.15
2	4.09	3.07	3.49	2.73	3.31
3	3.16	3.19	4	3.11	2.83
4	2.17	2.4	3.04	2.44	2.25

Frequency (MHz)	WLAN 6GHz Antenna Gain (dBi)			
	Ant.5	Ant.6	Ant.7	Ant.8
5925	4.4	5.8	5.3	3.1
6125	4.2	5.3	4.1	2.5
6225	5.0	5.6	4.8	2.9
6325	3.5	3.6	2.8	1.6
6425	3.7	5.1	4.6	3.2
6525	2.3	3.6	4.7	2.5
6625	3.4	5.9	5.4	3.8
6725	3.0	5.0	5.1	3.5
6875	4.1	5.8	5.6	3.2
6925	3.6	4.5	5.8	3.2
7125	3.8	5.0	5.3	3.1

< Directional Gain>

Item	Directional Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3
4T1S	5.17	4.87	4.61	3.59	4
4T2S	4.09	3.19	4	3.11	3.31
4T4S	4.09	3.19	4	3.11	3.31

Note: The above information (except gain of Ant.1~4) was declared by manufacturer.

The antenna gain and directional gain of the 2.4GHz/5GHz are measured which follow the procedure of KDB 662911 D03.

For WLAN 2.4GHz function:**For 802.11b/g/n/VHT/ax (4TX/4RX):**

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

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

For WLAN 5GHz function:

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

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

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

For 6GHz function:**For 802.11ax (4TX/4RX):**

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

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.602	2.2	692.5u	3k
802.11g	0.958	0.19	1.978m	1k
802.11ax HEW20	0.852	0.7	5.449m	300
802.11ax HEW20-BF	0.852	0.7	5.449m	300
802.11ax HEW40	0.879	0.56	5.452m	300
802.11ax HEW40-BF	0.879	0.56	5.452m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for ax in 2.4GHz, n/ac/ax in 5GHz and ax in 6GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QSPR.exe Version 5.0-00197			

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
CODA5X3X	CODA5X3X : The X in model name can be 0 to 9, A to Z or blank, for marketing purpose.

Note 1: From the above model: CODA5834 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.1.6 Applicable Standards

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

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

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

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

1.2 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Brian Sun	24.2-24.6 / 57-62	Aug. 23, 2022~ Nov. 07, 2022
Radiated<1GHz	03CH05-CB	Simmon Zheng	24.2-25.3 / 56-59	Nov. 30, 2022
Radiated>1GHz	03CH02-CB	Gordon Hung	23.8-24.9 / 55-58	Aug. 20, 2022~ Nov. 30, 2022
Radiated Co-location	03CH05-CB	Gordon Hung	24.2-25.3 / 56-59	Aug. 20, 2022~ Nov. 30, 2022
AC Conduction	CO02-CB	Joe Chu	23~24 / 56~57	Dec. 01, 2022



1.3 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	20.5
2437MHz	23.5
2462MHz	22.5
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	22.5
2437MHz	24
2462MHz	24
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	22
2437MHz	24
2462MHz	23.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	22
2437MHz	24
2462MHz	23.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	22
2437MHz	23.5
2452MHz	23.5
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	22
2437MHz	23.5
2452MHz	23.5

- Note: 1. Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
2. The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been selected to execute all tests. The beamforming mode evaluates the output power only.

2.2 The Worst Case Measurement Configuration

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
After evaluating, the worst axis was found as below. So the measurement will follow this same test configuration.	
1	EUT in Z axis + Adapter
Operating Mode > 1GHz	CTX
After evaluating, the worst axis was found as below. So the measurement will follow this same test configuration.	
1	EUT in X axis + Adapter (Bandedge) EUT in Y axis + Adapter (Harmonic)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
After evaluating, the worst axis was found as below from Emissions in Restricted Frequency Bands above 1GHz. So the measurement will follow this same test configuration.	
1	EUT in Y axis WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT + WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz
Refer to Sporton Test Report No.: FA250531 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	DC cable
Adapter	Frecom	F60X-120450SPA	INPUT: 100-240~50/60Hz, 1.6A OUTPUT: 12.0V, 4.5A, 54.0W	Non-shielding, 1.5m
Others				
Power cable*1: Non-shielding, 1.2m RJ-45 cable*1: Non-shielding, 1.5m				



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.5G WAN NB	DELL	E6430	N/A
B	Phone 1	SAMPO	HT-B 907WL	N/A
C	Phone 2	SAMPO	HT-B 907WL	N/A
D	CO	Jinghong	JH-HE3416B	N/A
F	2.4G NB	DELL	E6430	N/A
G	5G NB	DELL	E6430	N/A
H	1G LAN NB	DELL	E6430	N/A
I	6G NB	DELL	E6430	N/A
J	CO NB	lenov	7458	N/A

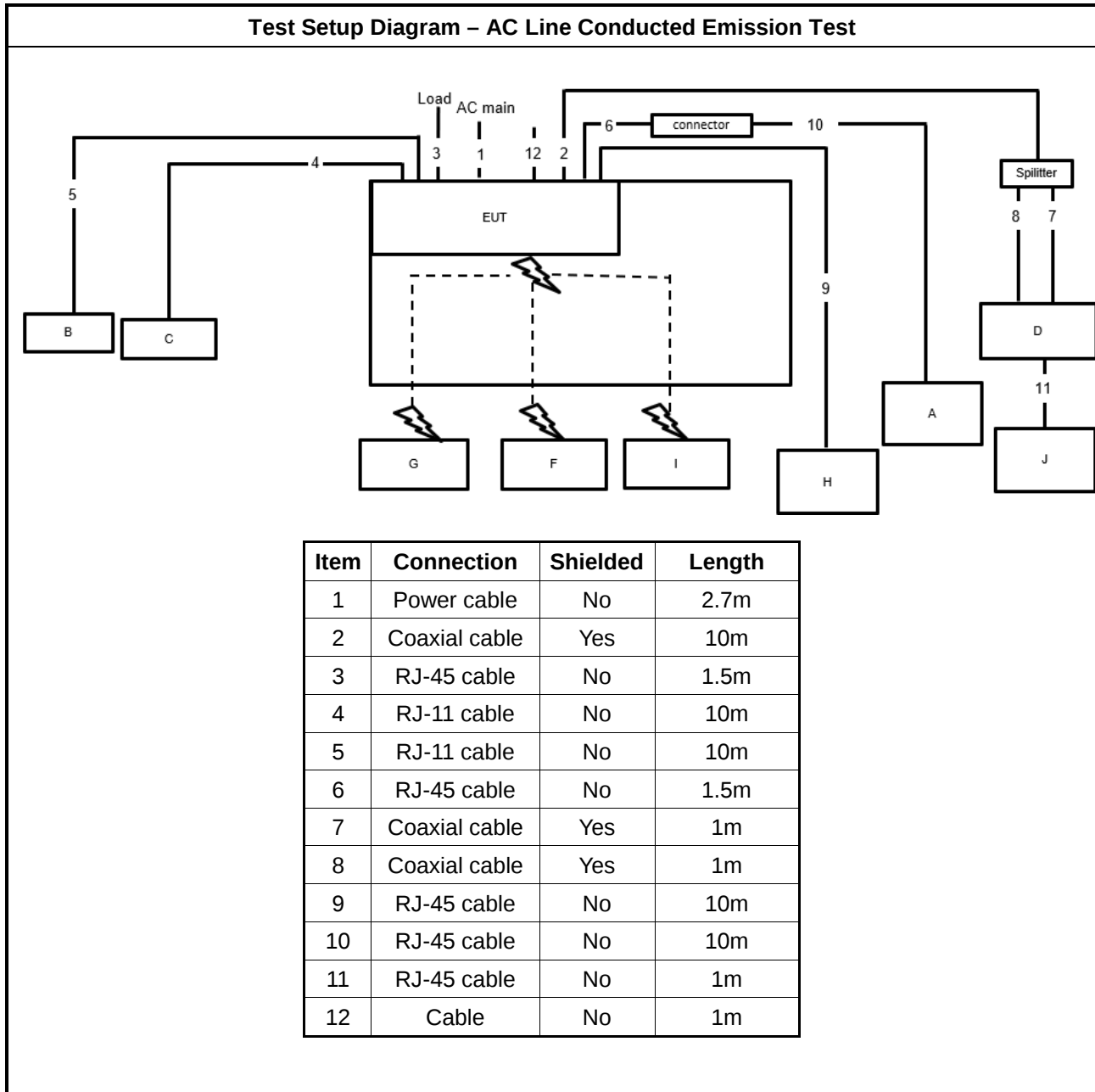
For Radiated (below 1GHz):

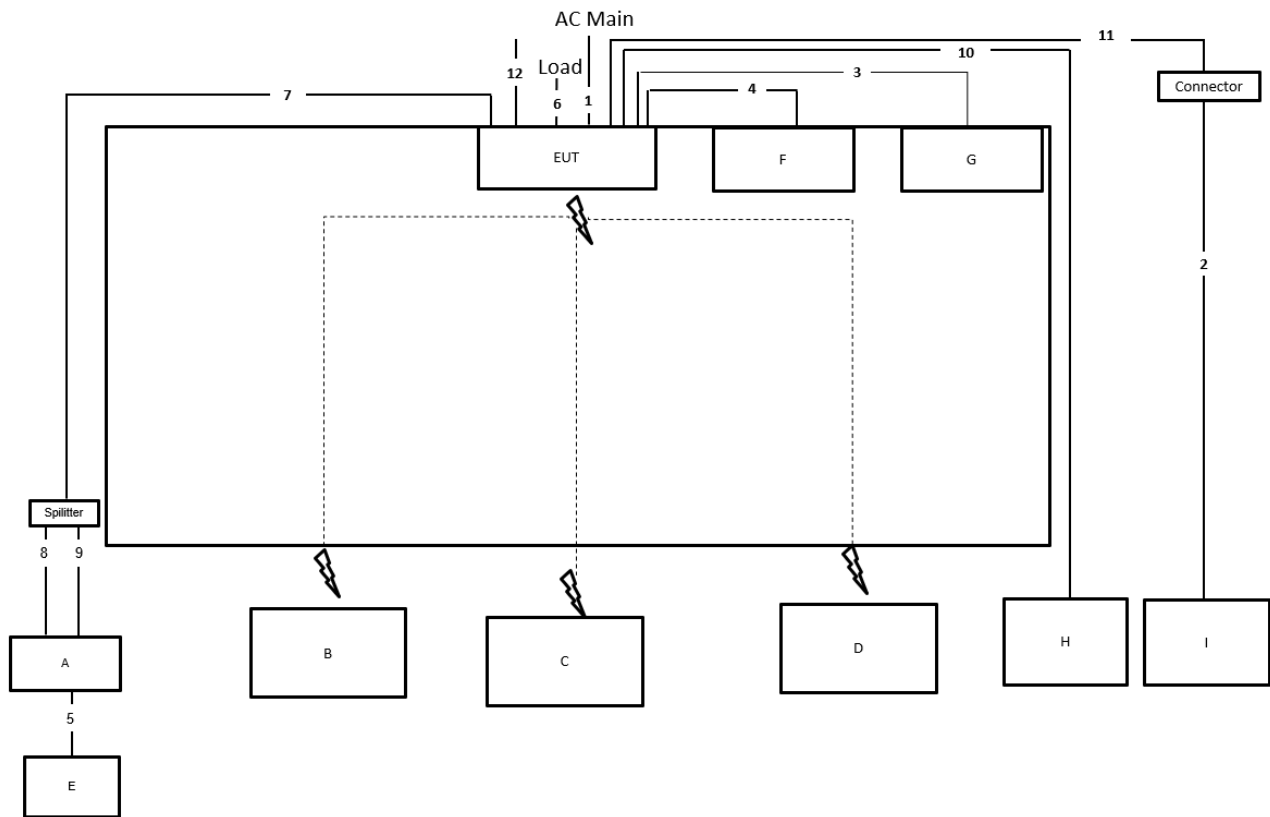
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Terminal System	Jinghong	JH-HE3416B	N/A
B	Notebook(6G WIFI)	DELL	E4300	N/A
C	Notebook(2.4G WIFI)	DELL	E4300	N/A
D	Notebook(5G WIFI)	DELL	E4300	N/A
E	Notebook	DELL	E4300	N/A
F	Phone	SAMPO	HT-B 907WL	N/A
G	Phone	SAMPO	HT-B 907WL	N/A
H	WAN Notebook	DELL	E4300	N/A
I	LAN Notebook	DELL	E4300	N/A

For RF Conducted and Radiated (above 1GHz):

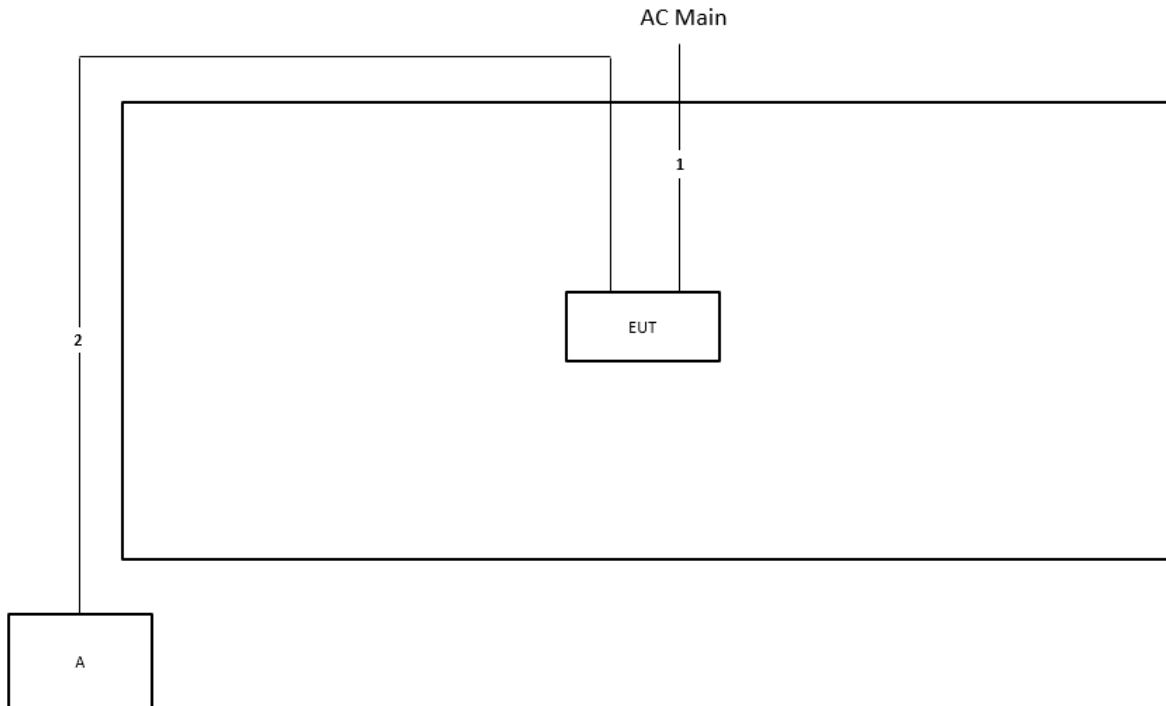
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	2.7m
2	RJ-45 cable	No	10m
3	RJ-11 cable	No	1.5m
4	RJ-11 cable	No	1.5m
5	RJ-45 cable	No	1.5m
6	RJ-45 cable	No	1.5m
7	Coaxial cable	Yes	10m
8	Coaxial cable	Yes	1m
9	Coaxial cable	Yes	1m
10	RJ-45 cable	No	10m
11	RJ-45 cable	No	1.5m
12	cable	No	1m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	2.7m
2	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

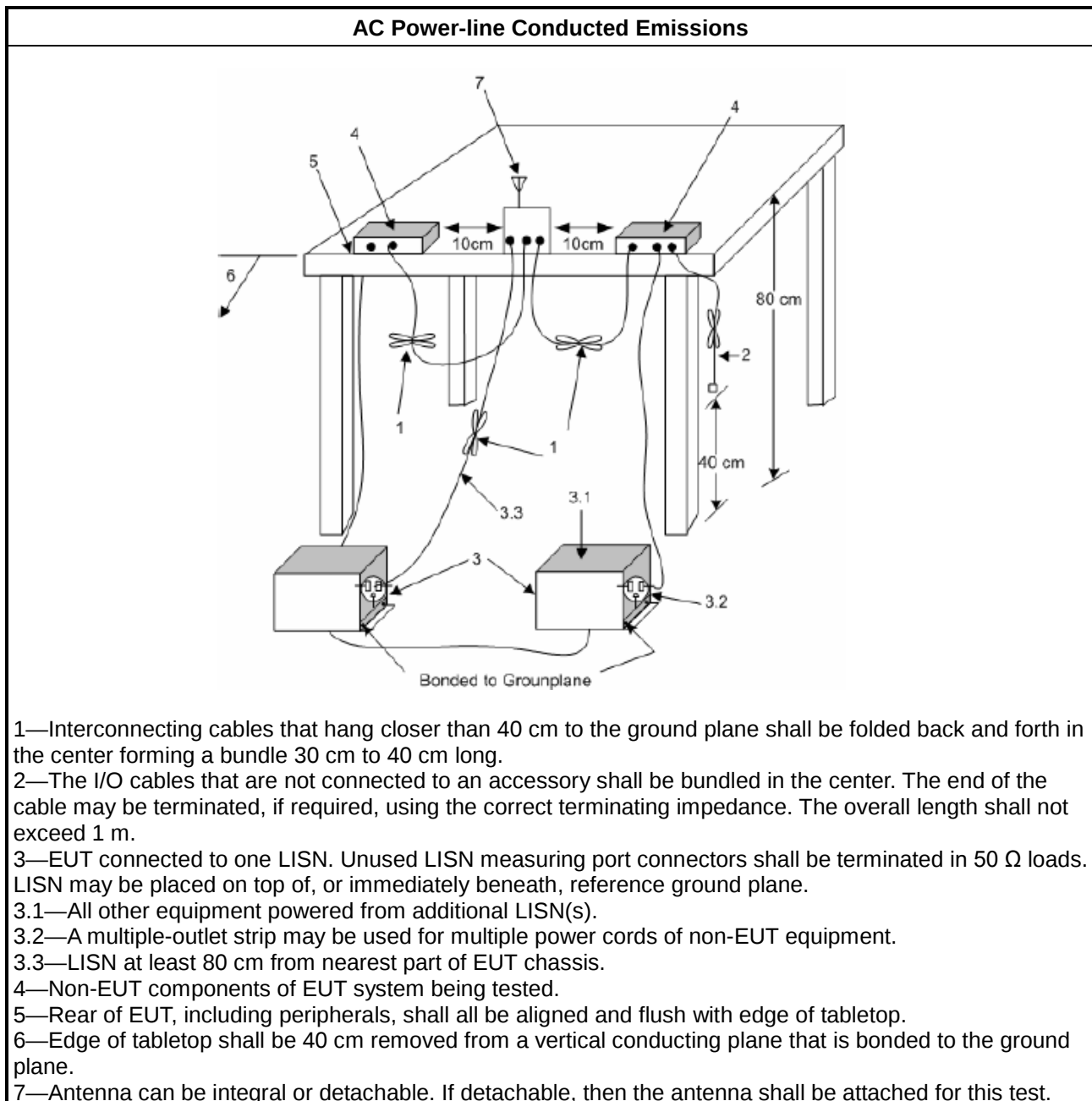
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

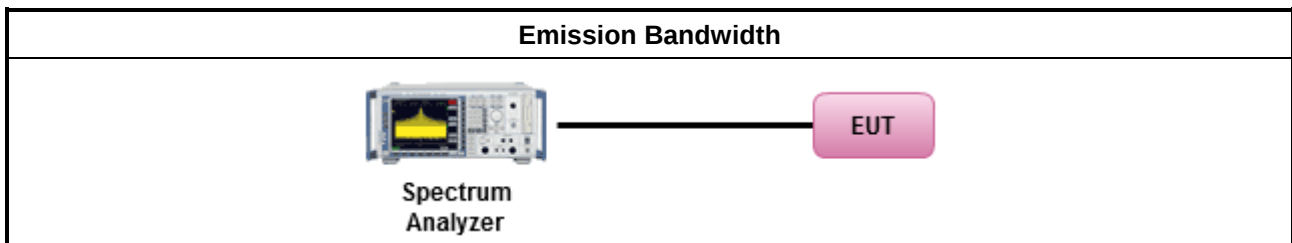
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

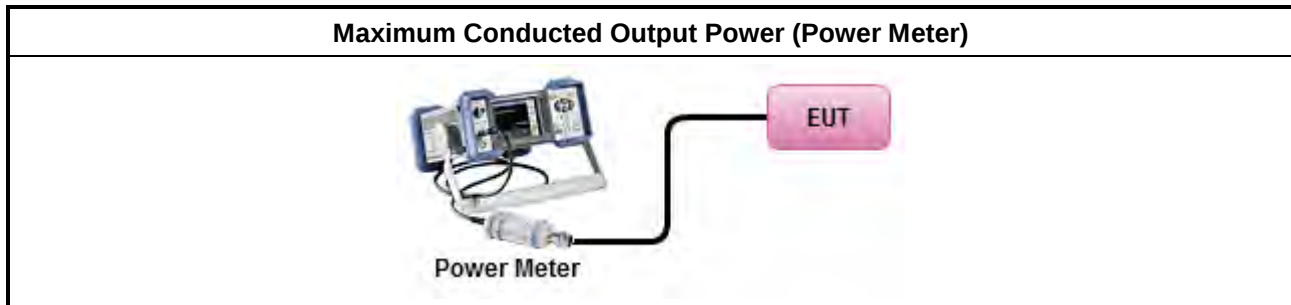
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

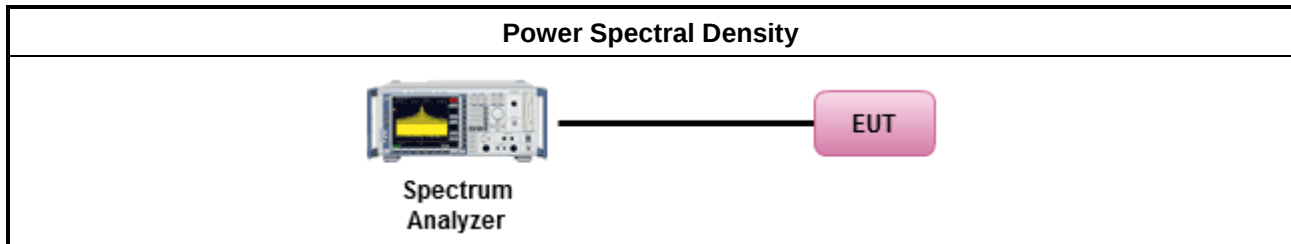
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

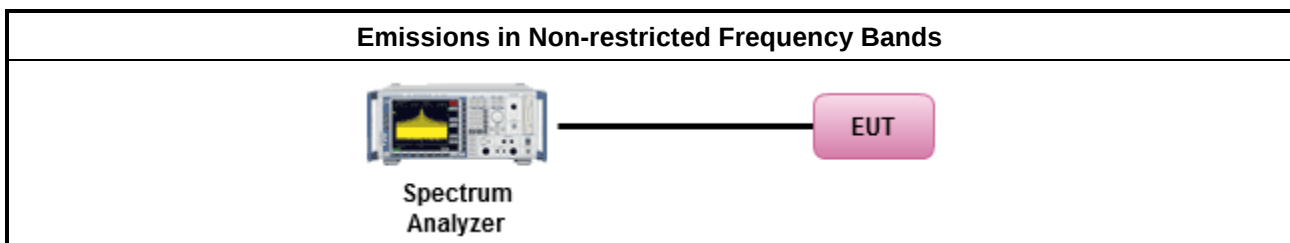
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

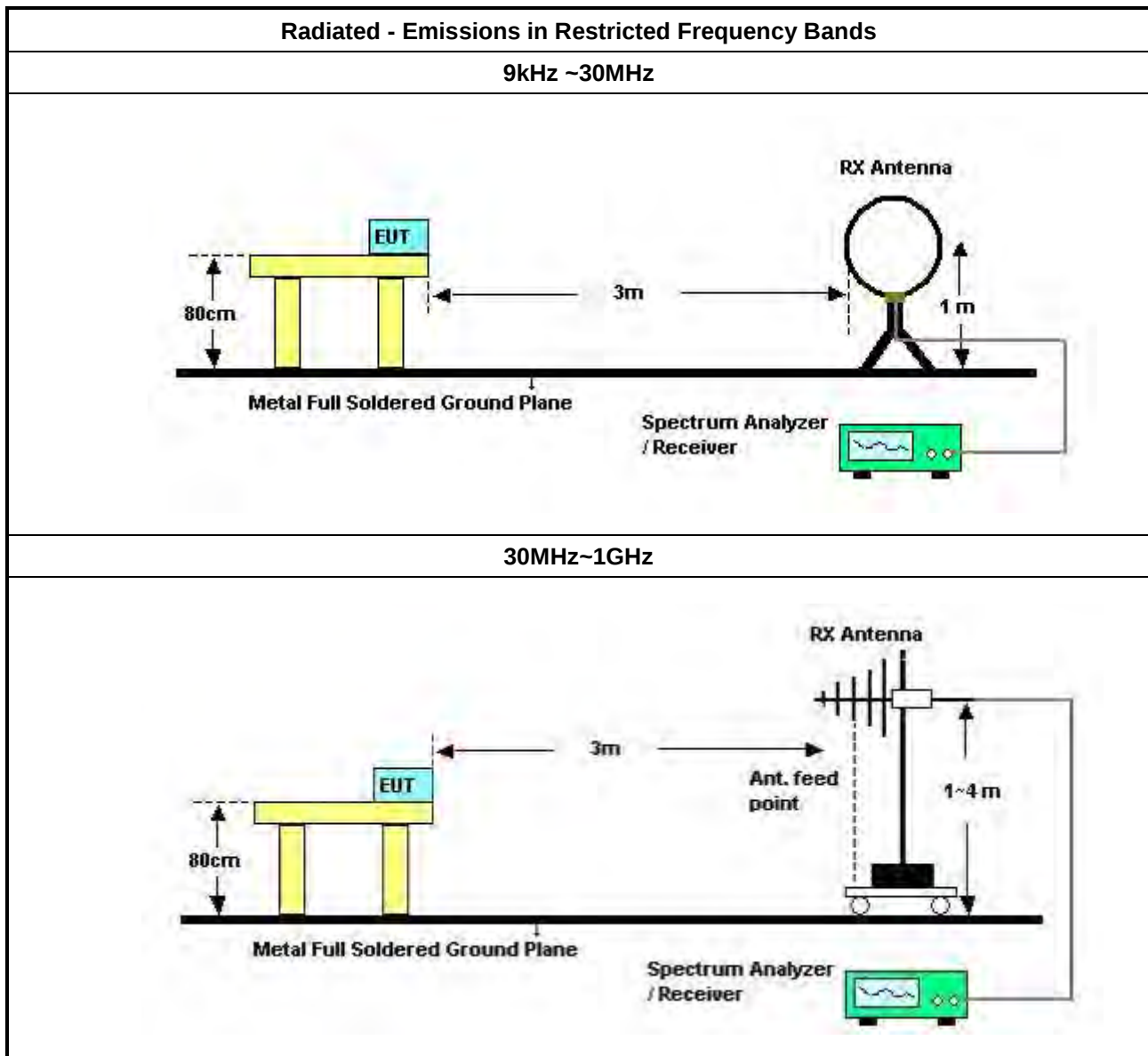
3.6.2 Measuring Instruments

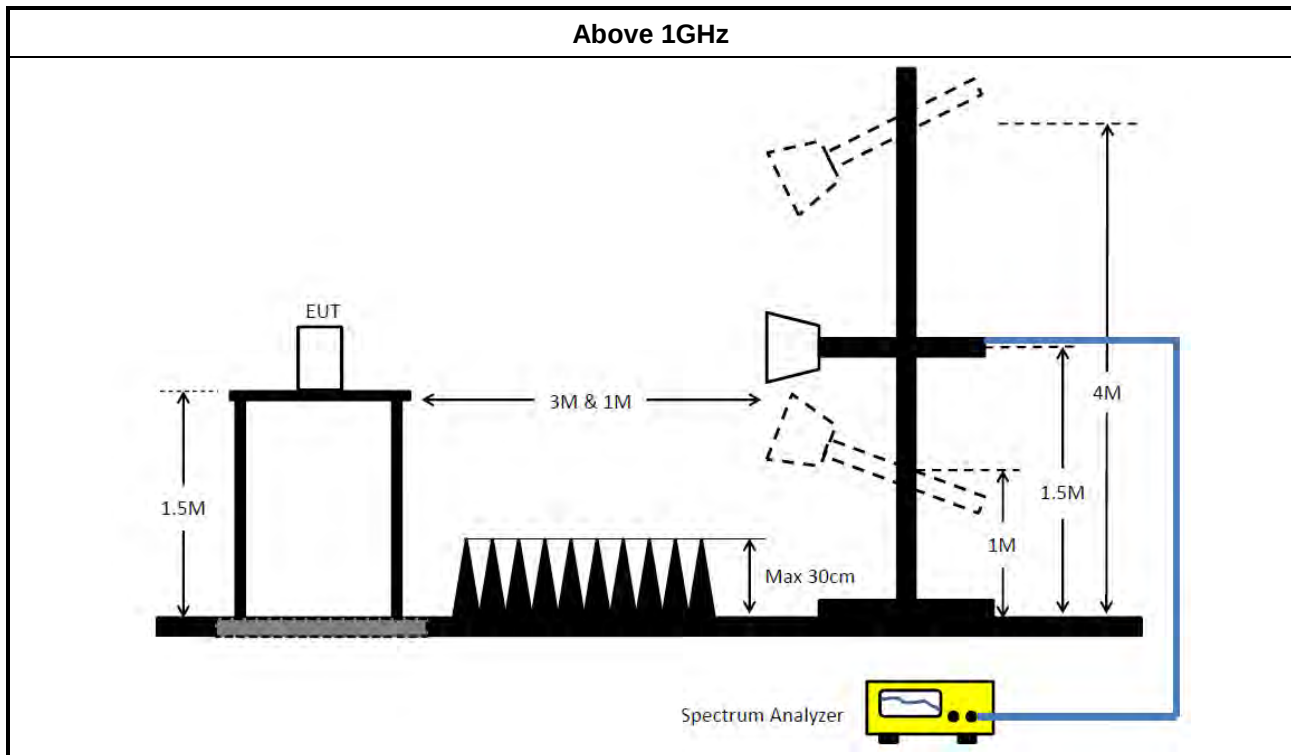
Refer a test equipment and calibration data table in this test report.

**3.6.3 Test Procedures**

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 22, 2021	Dec. 21, 2022	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 06, 2022	Nov. 05, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSP	100593	9kHz~40GHz	Apr. 08, 2022	Apr. 07, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

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



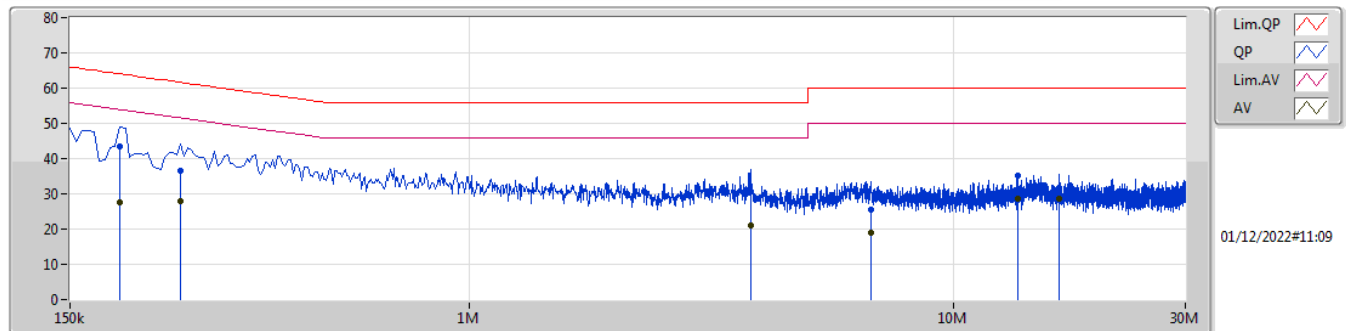
Conducted Emissions at Powerline

Appendix A

Summary

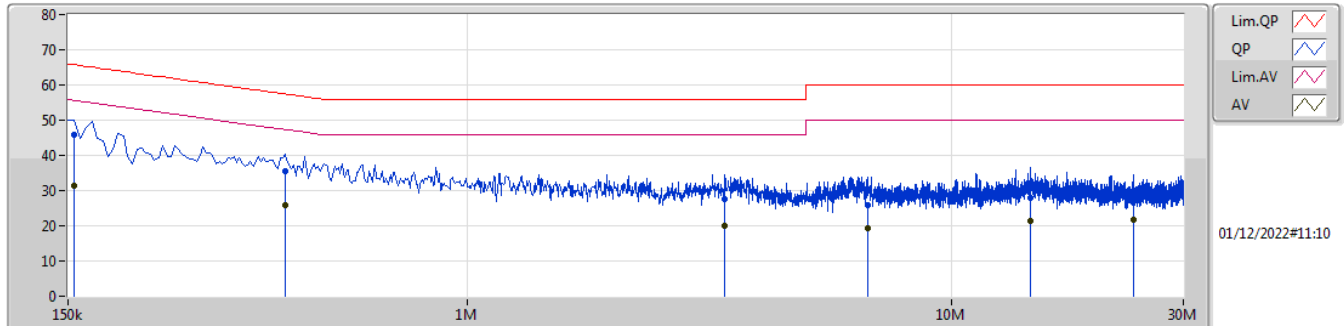
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.5k	45.97	65.75	-19.78	Neutral

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	190.5k	43.48	64.01	-20.53	10.30	Line	"Worst"	33.18	0.12	0.11	10.07						
AV	190.5k	27.59	54.01	-26.42	10.30	Line	-	17.29	0.12	0.11	10.07						
QP	253.5k	36.47	61.64	-25.17	10.28	Line	-	26.19	0.12	0.12	10.04						
AV	253.5k	27.89	51.64	-23.75	10.28	Line	-	17.61	0.12	0.12	10.04						
QP	3.804M	30.77	56.00	-25.23	10.27	Line	-	20.50	0.23	0.20	9.84						
AV	3.804M	20.94	46.00	-25.06	10.27	Line	-	10.67	0.23	0.20	9.84						
QP	6.725M	25.67	60.00	-34.33	10.39	Line	-	15.28	0.29	0.21	9.89						
AV	6.725M	18.82	50.00	-31.18	10.39	Line	-	8.43	0.29	0.21	9.89						
QP	13.56M	35.11	60.00	-24.89	10.55	Line	-	24.56	0.36	0.24	9.95						
AV	13.56M	28.79	50.00	-21.21	10.55	Line	-	18.24	0.36	0.24	9.95						
QP	16.467M	31.57	60.00	-28.43	10.61	Line	-	20.96	0.37	0.25	9.99						
AV	16.467M	28.45	50.00	-21.55	10.61	Line	-	17.84	0.37	0.25	9.99						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	45.97	65.75	-19.78	10.33	Neutral	"Worst"	35.64	0.16	0.08	10.09						
AV	154.5k	31.55	55.75	-24.20	10.33	Neutral	-	21.22	0.16	0.08	10.09						
QP	420k	35.41	57.45	-22.04	10.31	Neutral	-	25.10	0.16	0.15	10.00						
AV	420k	25.86	47.45	-21.59	10.31	Neutral	-	15.55	0.16	0.15	10.00						
QP	3.399M	27.59	56.00	-28.41	10.25	Neutral	-	17.34	0.21	0.20	9.84						
AV	3.399M	20.17	46.00	-25.83	10.25	Neutral	-	9.92	0.21	0.20	9.84						
QP	6.693M	25.91	60.00	-34.09	10.36	Neutral	-	15.55	0.26	0.21	9.89						
AV	6.693M	19.21	50.00	-30.79	10.36	Neutral	-	8.85	0.26	0.21	9.89						
QP	14.474M	27.98	60.00	-32.02	10.52	Neutral	-	17.46	0.31	0.25	9.96						
AV	14.474M	21.53	50.00	-28.47	10.52	Neutral	-	11.01	0.31	0.25	9.96						
QP	23.645M	29.41	60.00	-30.59	10.70	Neutral	-	18.71	0.34	0.27	10.09						
AV	23.645M	21.57	50.00	-28.43	10.70	Neutral	-	10.87	0.34	0.27	10.09						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	9.025M	13.918M	13M9G1D	7.05M	13.193M
802.11g_Nss1,(6Mbps)_4TX	16.325M	26.987M	27M0D1D	15.95M	16.742M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.025M	28.311M	28M3D1D	18.8M	19.09M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.7M	38.131M	38M1D1D	32.7M	37.831M

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

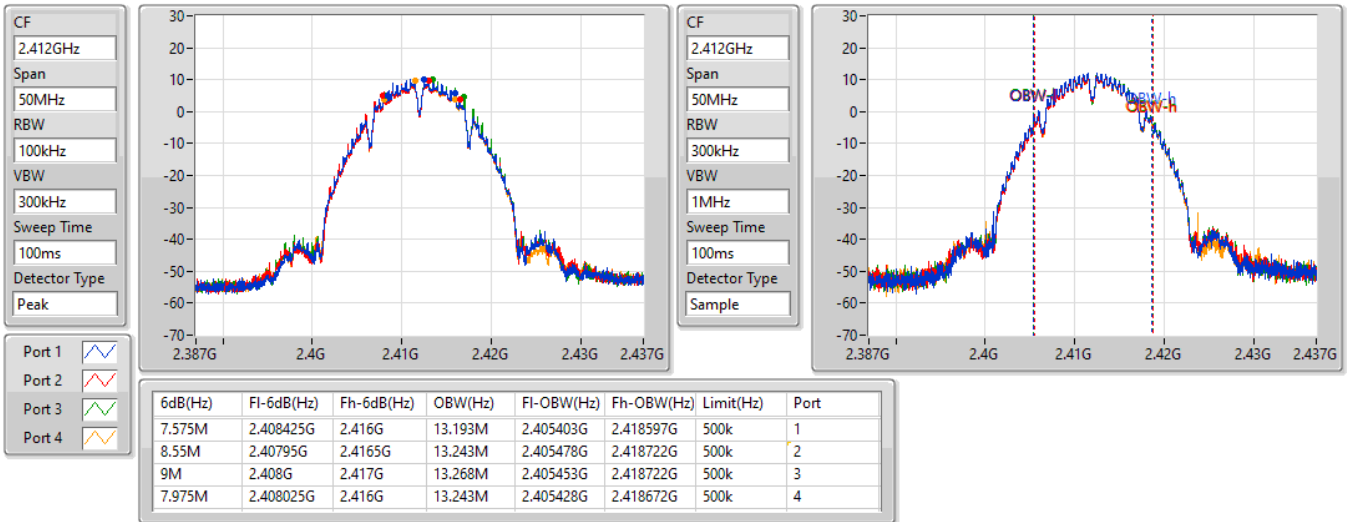
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.575M	13.193M	8.55M	13.243M	9M	13.268M	7.975M	13.243M
2437MHz	Pass	500k	7.125M	13.618M	7.125M	13.493M	8.525M	13.768M	9.025M	13.918M
2462MHz	Pass	500k	8.025M	13.368M	8.075M	13.218M	7.05M	13.418M	7.675M	13.293M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.767M	15.95M	16.792M	16.3M	16.742M	16.325M	16.842M
2437MHz	Pass	500k	16.325M	16.867M	16.325M	16.892M	16.325M	16.967M	16.3M	26.987M
2462MHz	Pass	500k	16.3M	16.942M	16.275M	20.89M	16.3M	18.616M	16.3M	22.539M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	19M	19.09M	18.925M	19.165M	18.9M	19.19M	18.975M	19.165M
2437MHz	Pass	500k	19M	19.19M	18.95M	19.215M	19.025M	19.24M	18.95M	28.311M
2462MHz	Pass	500k	19M	19.09M	18.95M	19.115M	18.85M	19.14M	18.8M	19.215M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.7M	37.981M	32.7M	37.881M	33.9M	37.831M	35.7M	37.981M
2437MHz	Pass	500k	36.7M	38.031M	36.35M	38.031M	36.3M	38.031M	37.05M	38.131M
2452MHz	Pass	500k	36.7M	38.081M	36.2M	38.081M	36.95M	37.881M	37.05M	37.981M

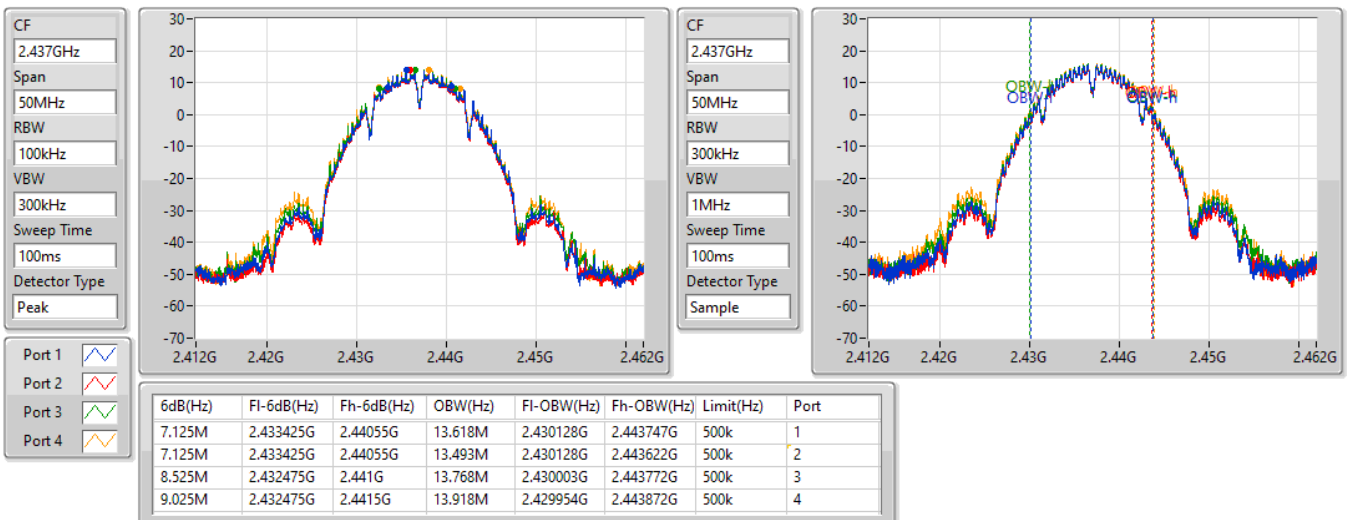
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_4TX
EBW
2412MHz

23/08/2022

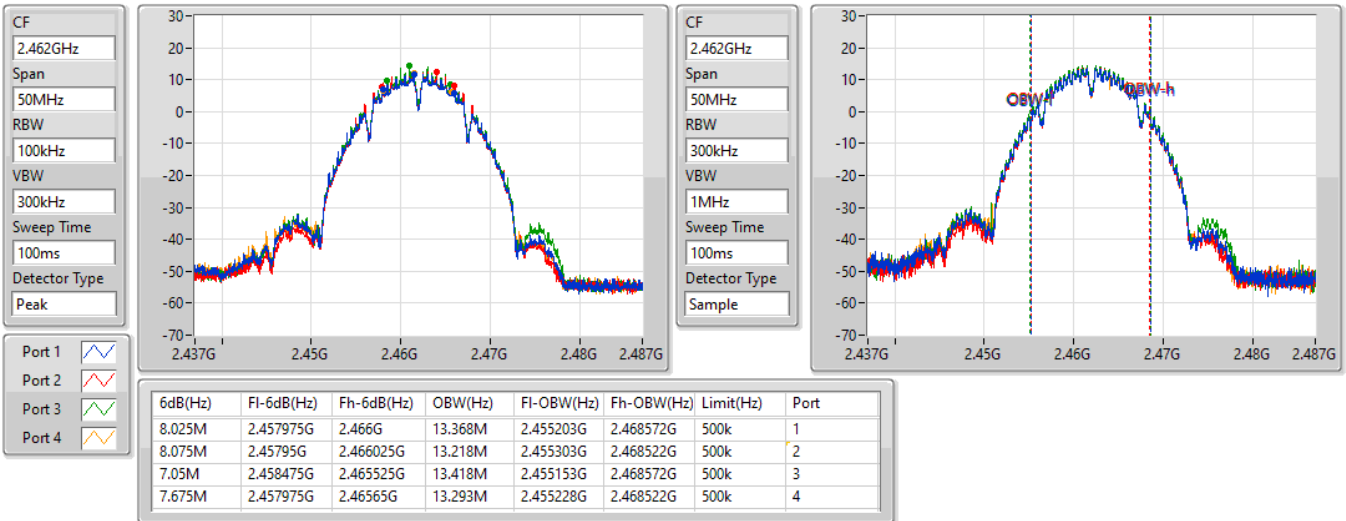

802.11b_Nss1,(1Mbps)_4TX
EBW
2437MHz

23/08/2022

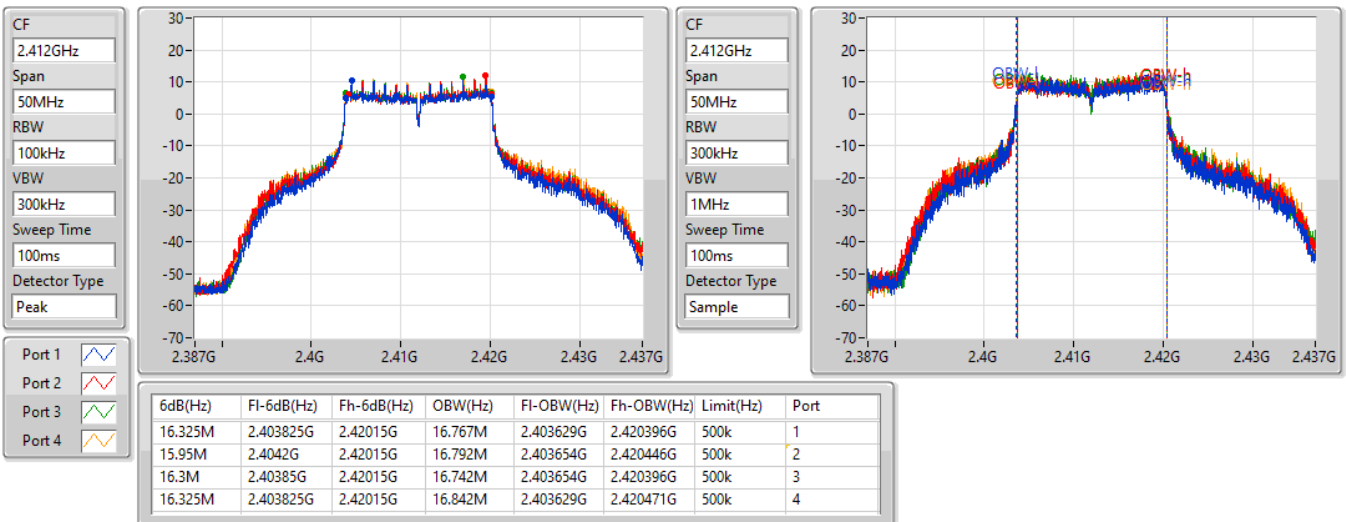


802.11b_Nss1,(1Mbps)_4TX
EBW
2462MHz

23/08/2022

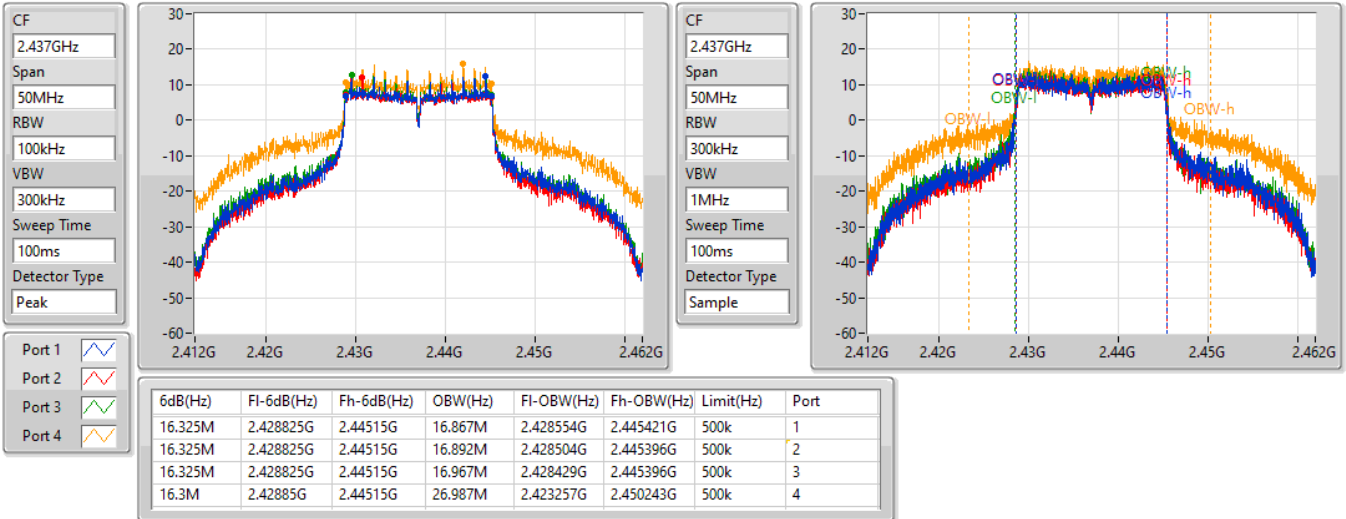

802.11g_Nss1,(6Mbps)_4TX
EBW
2412MHz

23/08/2022

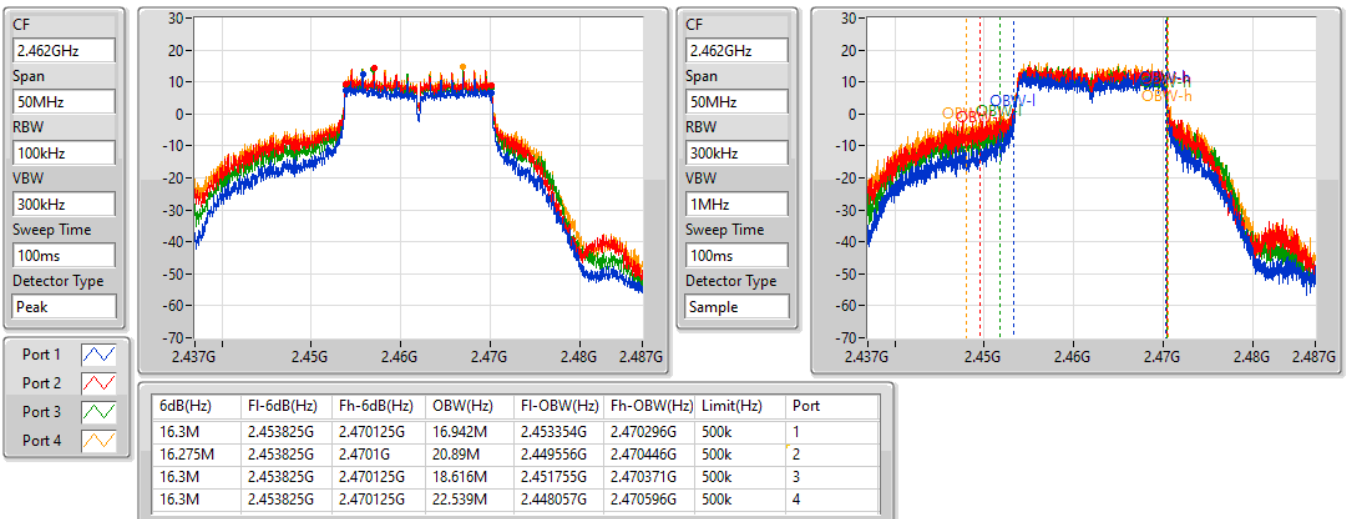


802.11g_Nss1,(6Mbps)_4TX
2437MHz

23/08/2022

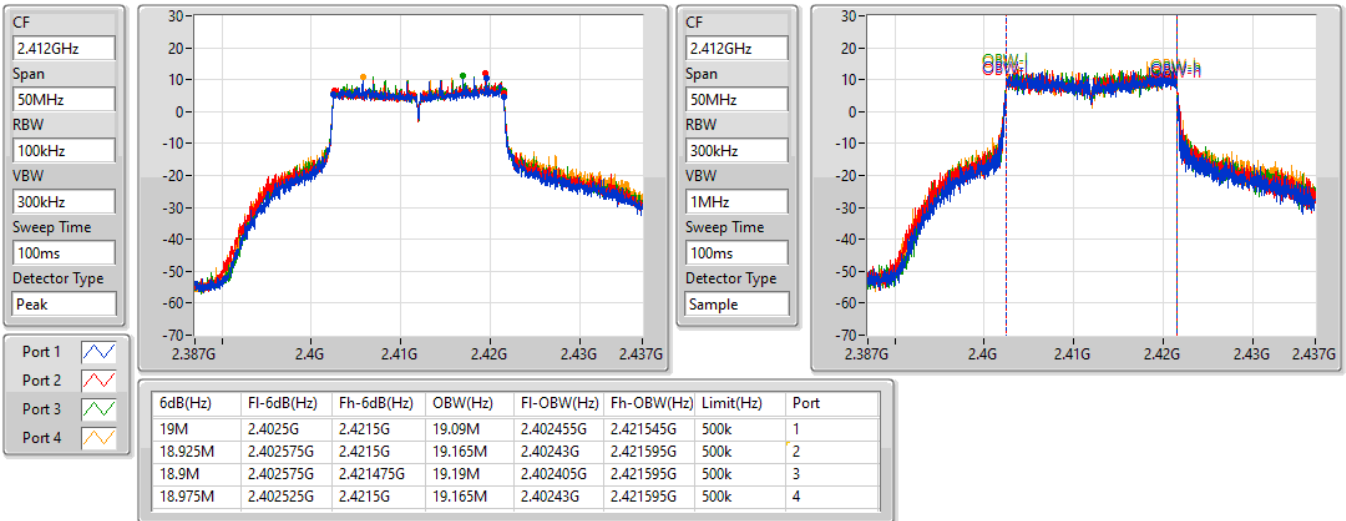

802.11g_Nss1,(6Mbps)_4TX
2462MHz

23/08/2022

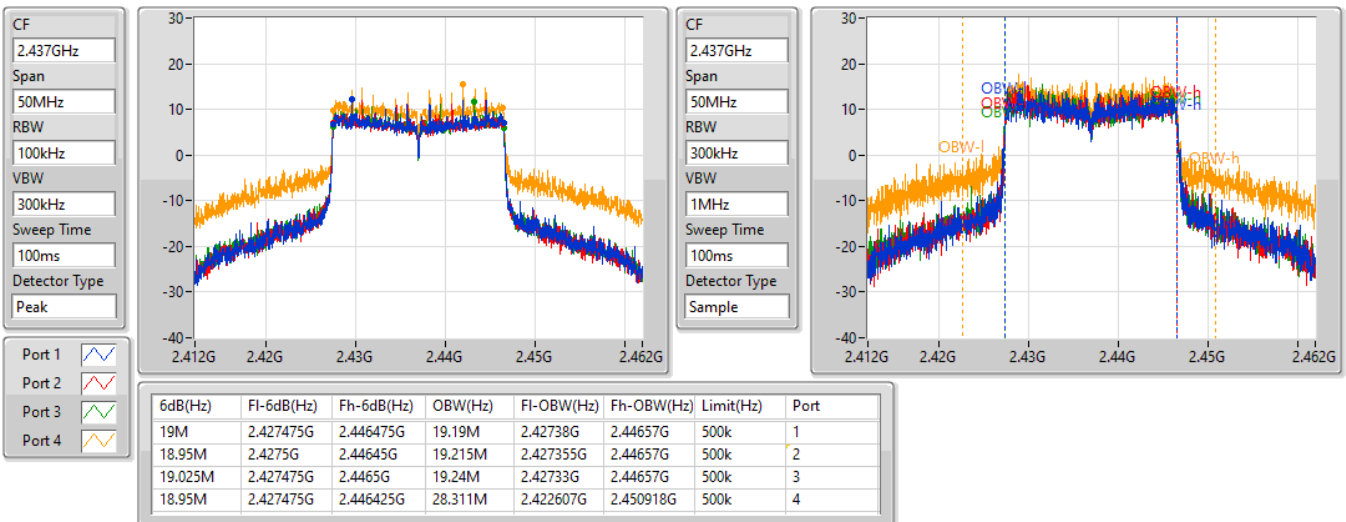


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2412MHz

23/08/2022

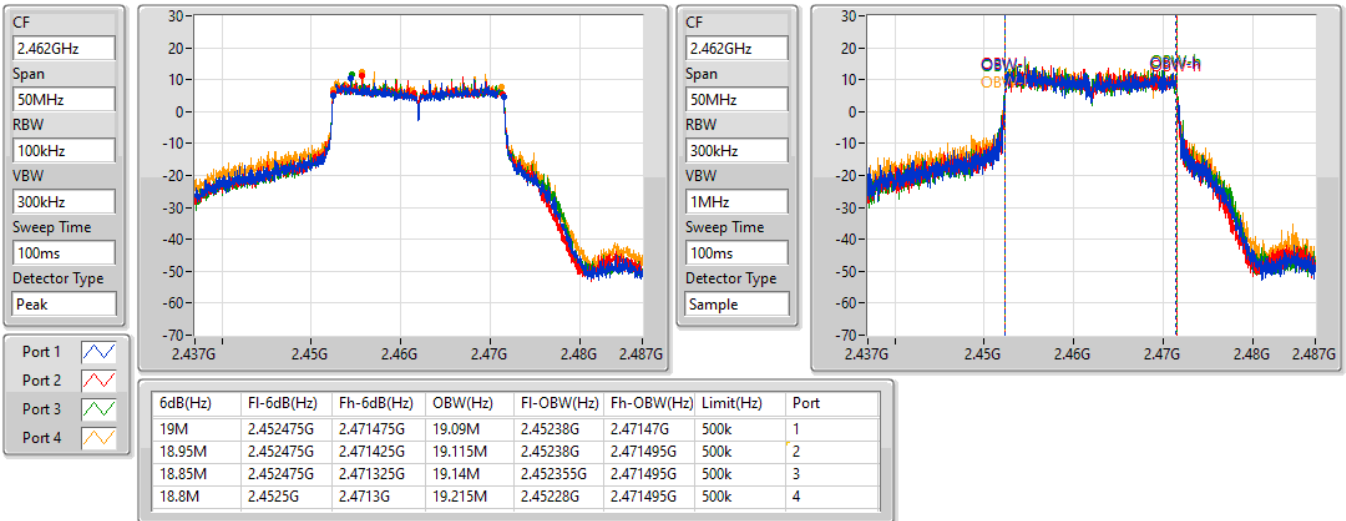

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2437MHz

23/08/2022

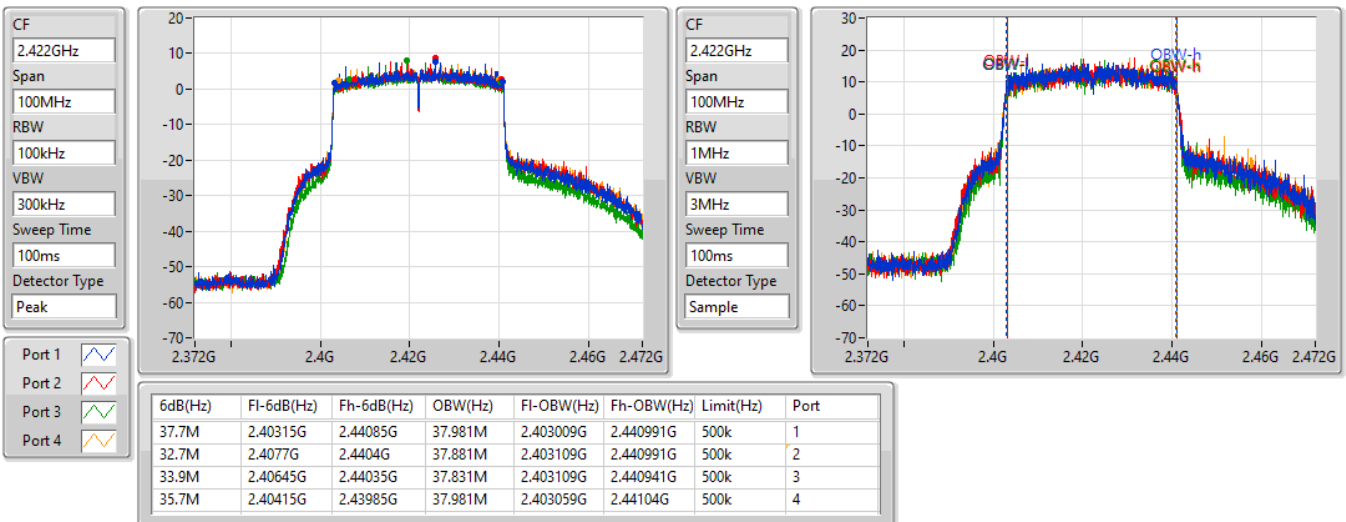


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2462MHz

23/08/2022

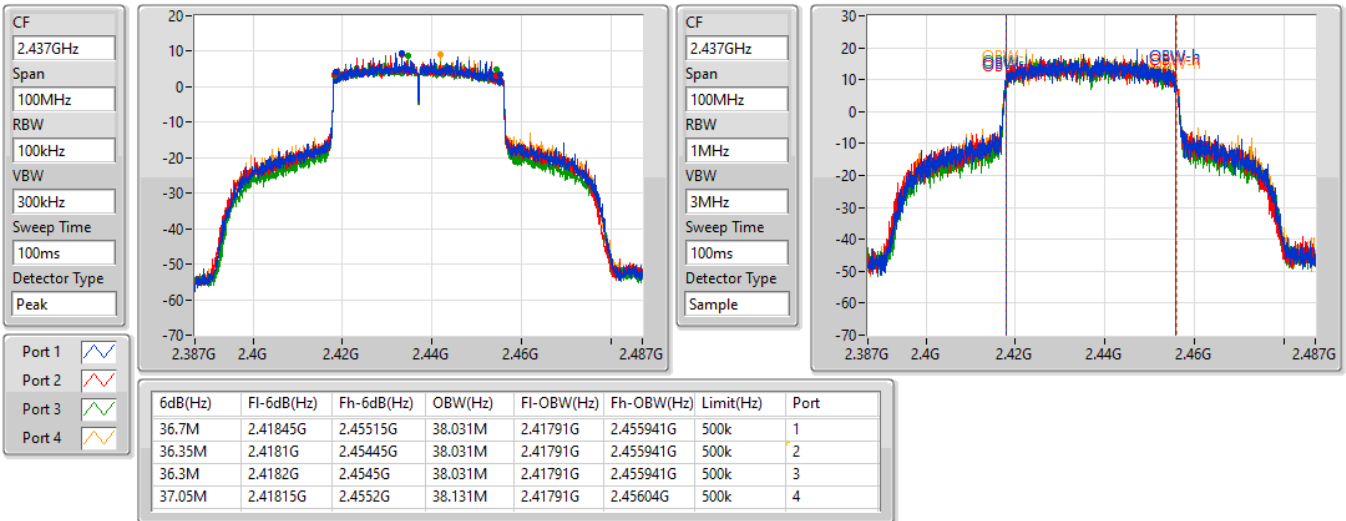

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2422MHz

23/08/2022

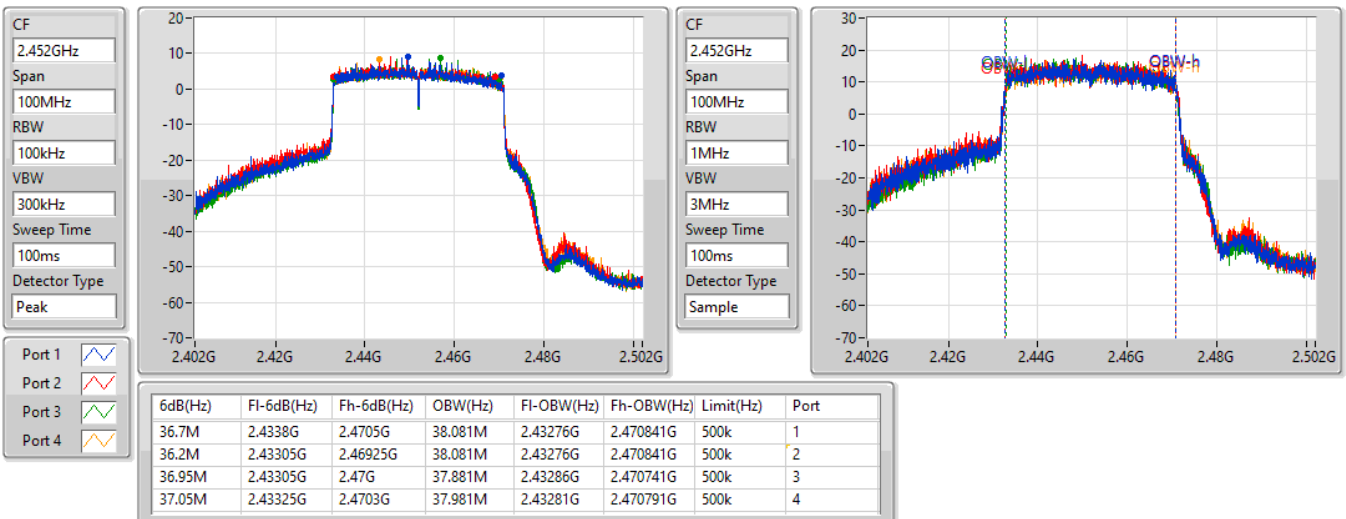


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2437MHz

23/08/2022


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2452MHz

23/08/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	29.58	0.90782
802.11g_Nss1,(6Mbps)_4TX	29.96	0.99083
802.11ax HEW20_Nss1,(MCS0)_4TX	29.81	0.95719
802.11ax HEW40_Nss1,(MCS0)_4TX	29.24	0.83946

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.09	19.88	19.52	20.06	19.21	25.70	30.00
2437MHz	Pass	4.09	23.45	23.02	23.69	24.02	29.58	30.00
2462MHz	Pass	4.09	21.38	21.53	22.20	21.76	27.75	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.09	21.16	21.59	21.81	21.83	27.63	30.00
2437MHz	Pass	4.09	22.70	22.50	22.97	25.50	29.62	30.00
2462MHz	Pass	4.09	22.22	24.39	23.96	24.79	29.96	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.09	21.04	21.39	21.37	21.35	27.31	30.00
2437MHz	Pass	4.09	22.97	22.94	23.03	25.59	29.81	30.00
2462MHz	Pass	4.09	21.89	22.48	22.49	23.10	28.53	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.09	21.77	21.87	21.40	21.75	27.72	30.00
2437MHz	Pass	4.09	23.24	23.25	22.95	23.41	29.24	30.00
2452MHz	Pass	4.09	22.82	23.14	22.73	23.00	28.95	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	29.81	0.95719
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.24	0.83946

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	5.17	21.04	21.39	21.37	21.35	27.31	30.00
2437MHz	Pass	5.17	22.97	22.94	23.03	25.59	29.81	30.00
2462MHz	Pass	5.17	21.89	22.48	22.49	23.1	28.53	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.17	21.77	21.87	21.4	21.75	27.72	30.00
2437MHz	Pass	5.17	23.24	23.25	22.95	23.41	29.24	30.00
2452MHz	Pass	5.17	22.82	23.14	22.73	23	28.95	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	2.36
802.11g_Nss1,(6Mbps)_4TX	1.30
802.11ax HEW20_Nss1,(MCS0)_4TX	0.52
802.11ax HEW40_Nss1,(MCS0)_4TX	-2.80

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.17	-7.27	-6.69	-2.87	-6.95	-1.79	8.00
2437MHz	Pass	5.17	-3.35	-1.38	-2.17	-1.95	2.36	8.00
2462MHz	Pass	5.17	-4.13	-4.15	-4.70	-3.51	0.14	8.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.17	-5.96	-5.16	-4.93	-5.40	-0.74	8.00
2437MHz	Pass	5.17	-3.52	-5.26	-2.27	-1.82	1.30	8.00
2462MHz	Pass	5.17	-5.15	-1.34	-2.65	-1.70	1.23	8.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.17	-5.86	-5.18	-4.90	-5.27	-1.20	8.00
2437MHz	Pass	5.17	-3.79	-4.76	-4.29	-2.52	0.52	8.00
2462MHz	Pass	5.17	-5.74	-5.60	-5.55	-4.77	-1.30	8.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.17	-7.35	-7.48	-7.46	-7.84	-3.91	8.00
2437MHz	Pass	5.17	-5.14	-6.37	-6.83	-6.81	-3.01	8.00
2452MHz	Pass	5.17	-4.74	-6.37	-6.93	-6.86	-2.80	8.00

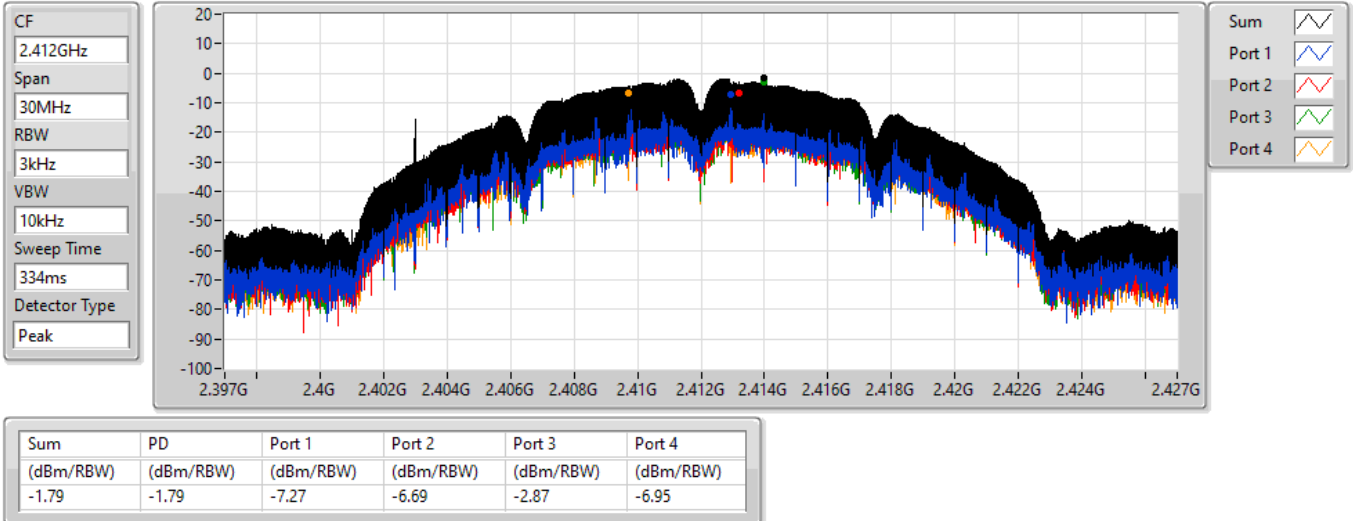
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

23/08/2022

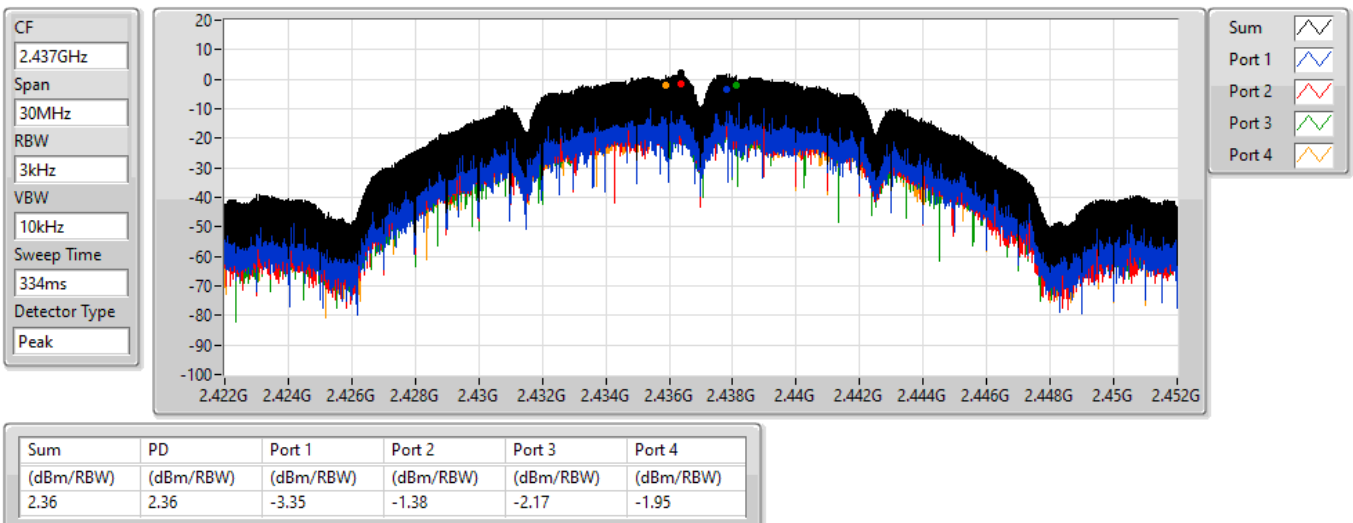


802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

23/08/2022

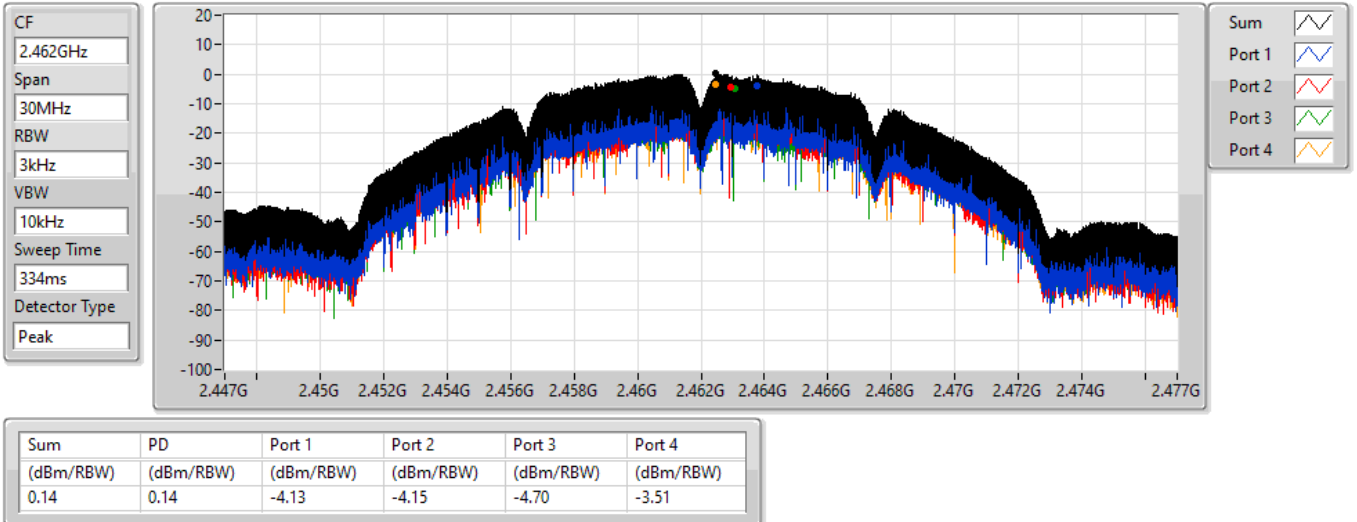


802.11b_Nss1,(1Mbps)_4TX

2462MHz

PSD

23/08/2022

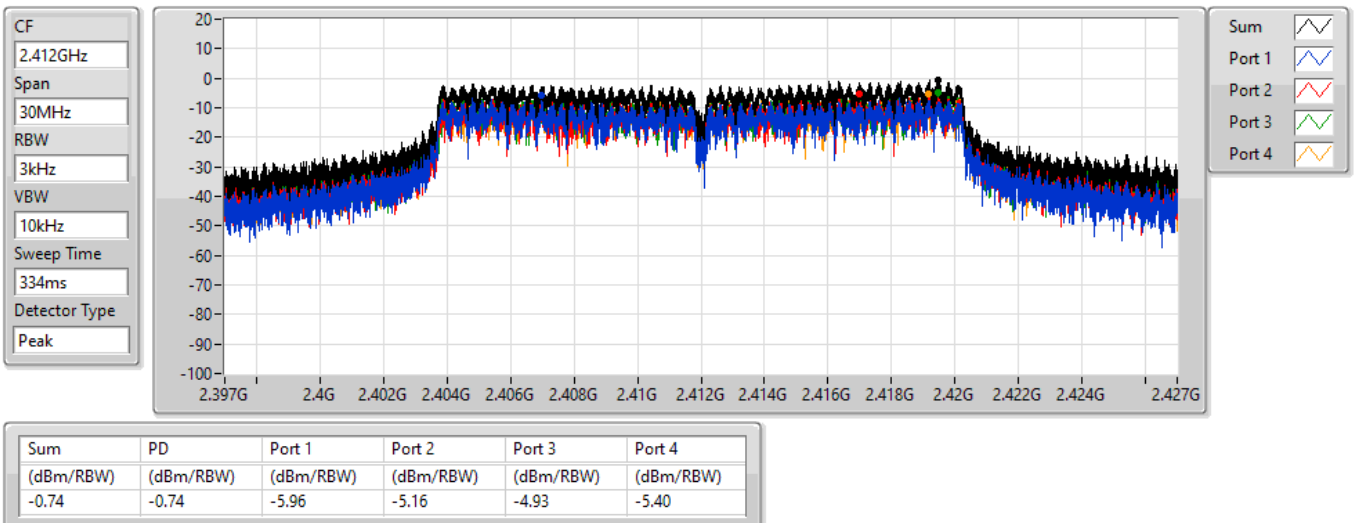


802.11g_Nss1,(6Mbps)_4TX

2412MHz

PSD

23/08/2022

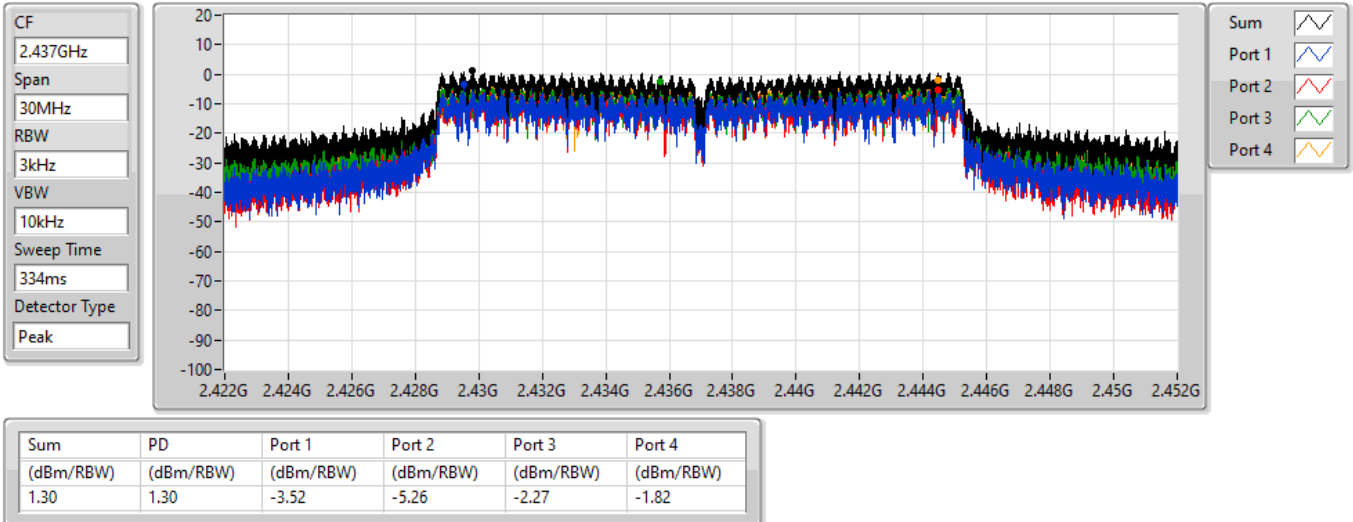


802.11g_Nss1,(6Mbps)_4TX

2437MHz

PSD

23/08/2022

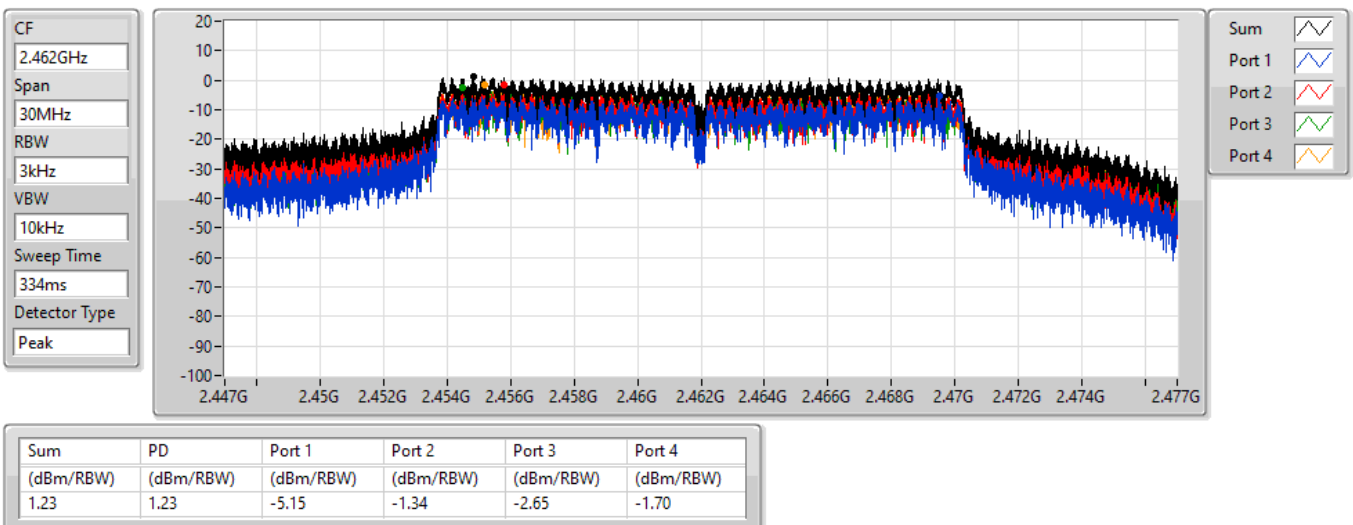


802.11g_Nss1,(6Mbps)_4TX

2462MHz

PSD

23/08/2022

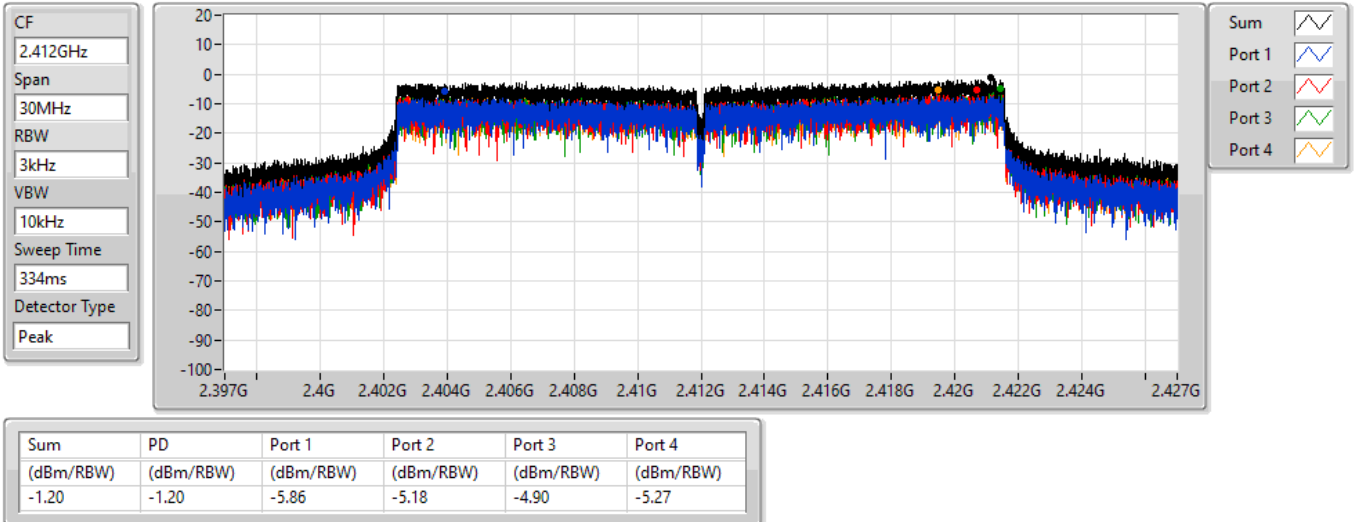


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2412MHz

23/08/2022

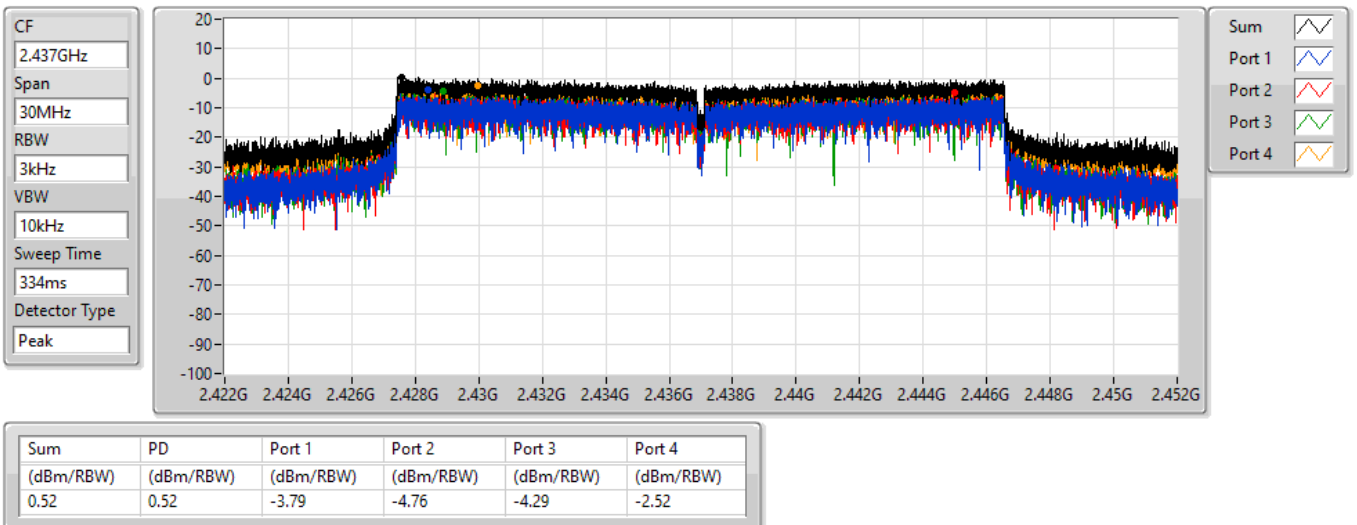


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2437MHz

23/08/2022

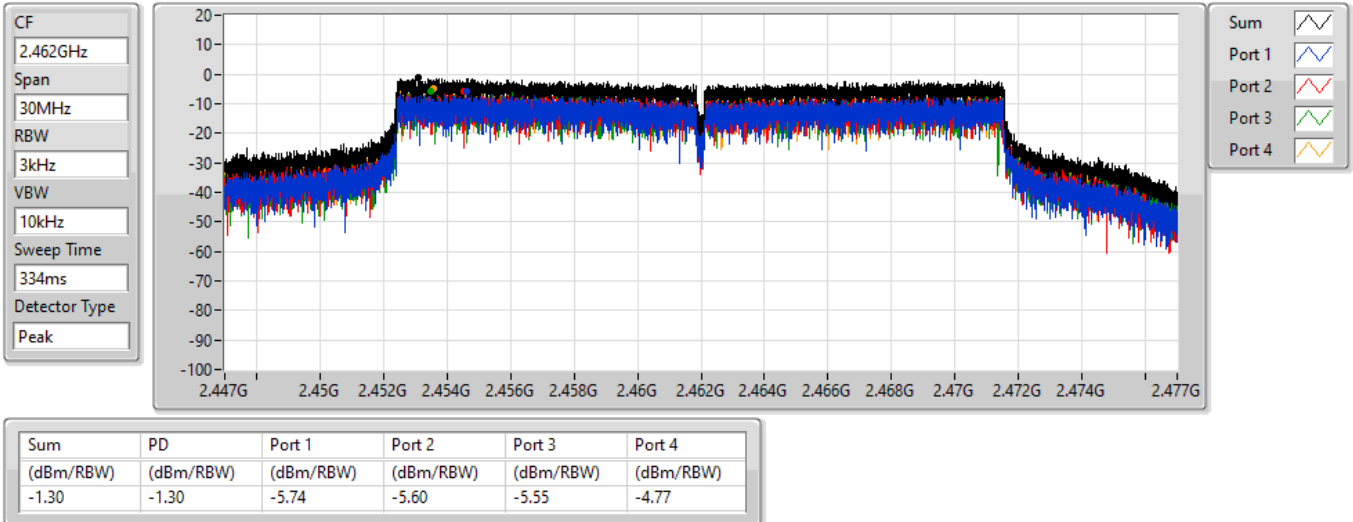


802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz

PSD

23/08/2022

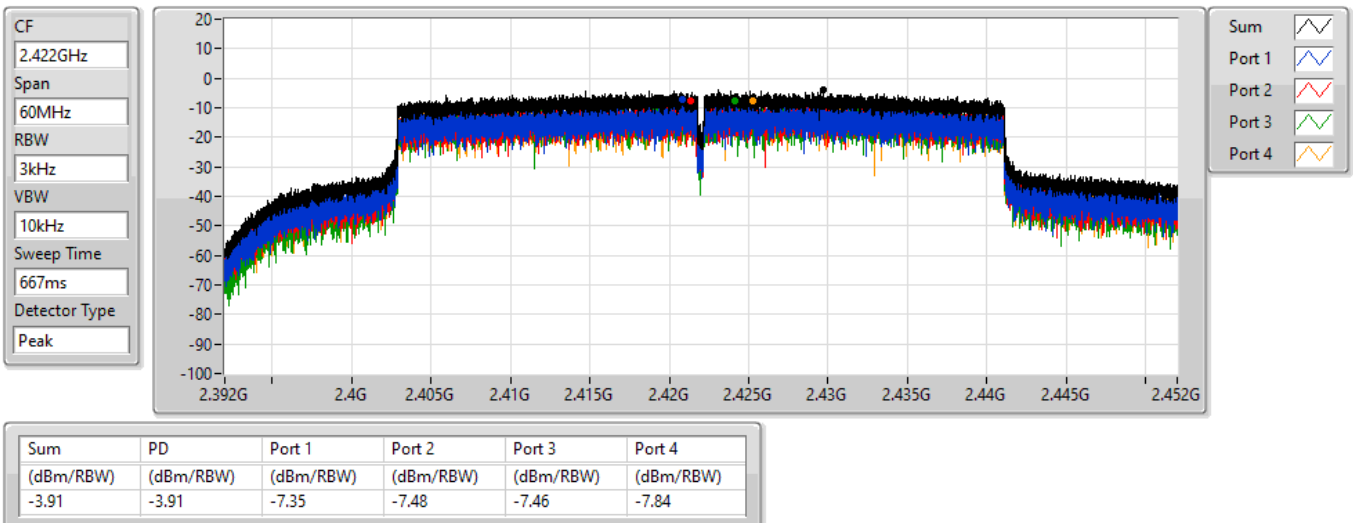


802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz

PSD

23/08/2022

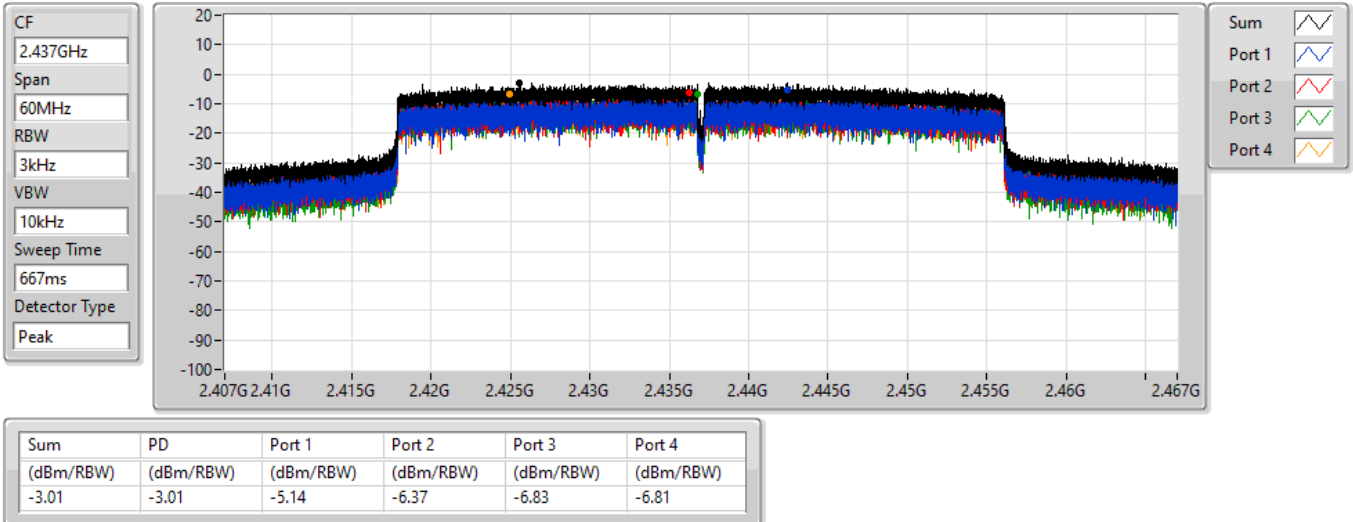


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2437MHz

23/08/2022

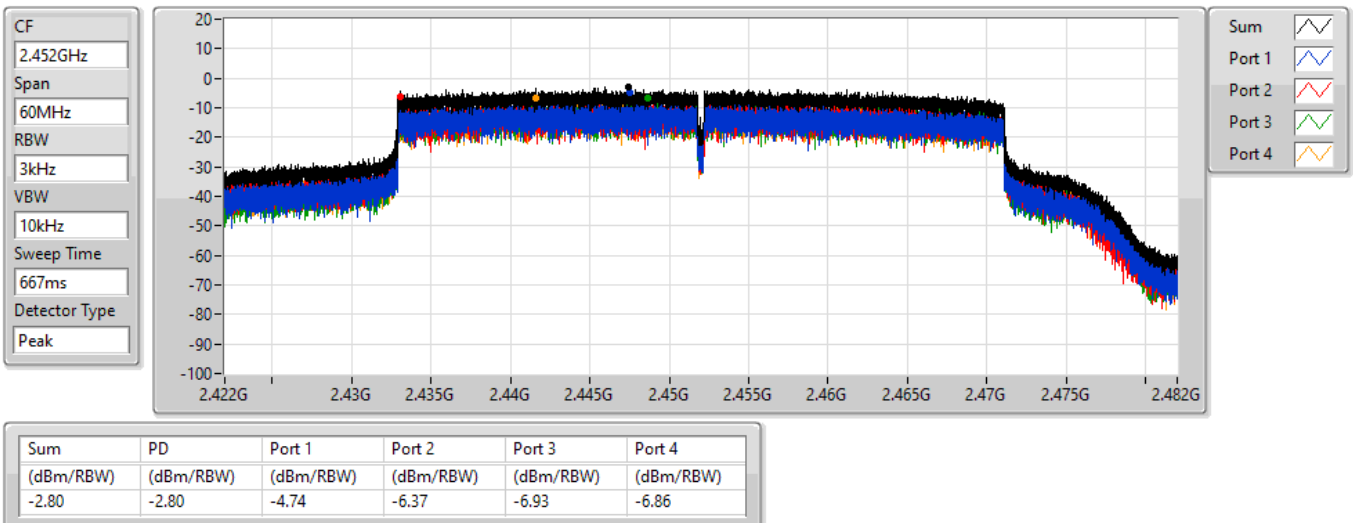


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2452MHz

23/08/2022





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1(1Mbps)_4TX	Pass	2.43799G	14.52	-15.48	2.1337G	-52.89	2.39848G	-39.86	2.4G	-43.91	2.52184G	-51.73	17.62771G	-47.77	3
802.11g_Nss1(6Mbps)_4TX	Pass	2.46697G	15.37	-14.63	942.49M	-52.18	2.39918G	-15.26	2.4G	-17.39	2.48786G	-50.46	17.68109G	-46.11	4
802.11ax HEW20_Nss1.(MCS0)_4TX	Pass	2.43574G	14.40	-15.60	2.19836G	-52.49	2.3997G	-15.86	2.4G	-17.24	2.49066G	-51.92	16.39712G	-47.73	4
802.11ax HEW40_Nss1.(MCS0)_4TX	Pass	2.43198G	10.00	-20.00	1.8869G	-52.89	2.39988G	-20.04	2.4G	-22.21	2.53282G	-51.56	17.69411G	-47.35	1

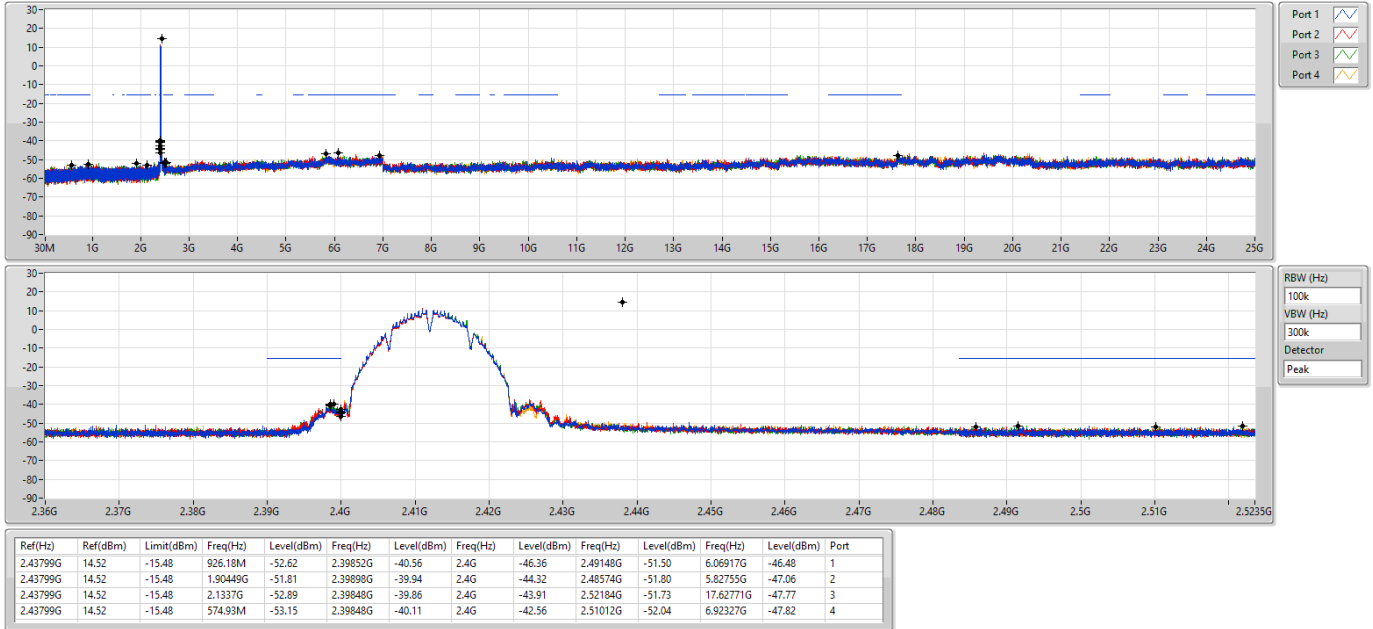
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43799G	14.52	-15.48	926.18M	-52.62	2.39852G	-40.56	2.4G	-46.36	2.49148G	-51.50	6.06917G	-46.48	1
2412MHz	Pass	2.43799G	14.52	-15.48	1.90449G	-51.81	2.39898G	-39.94	2.4G	-44.32	2.48574G	-51.80	5.82755G	-47.06	2
2412MHz	Pass	2.43799G	14.52	-15.48	2.1337G	-52.89	2.39848G	-39.86	2.4G	-43.91	2.52184G	-51.73	17.62771G	-47.77	3
2412MHz	Pass	2.43799G	14.52	-15.48	574.93M	-53.15	2.39848G	-40.11	2.4G	-42.56	2.51012G	-52.04	6.92327G	-47.82	4
2437MHz	Pass	2.43799G	14.52	-15.48	1.64819G	-52.76	2.39946G	-51.25	2.4G	-54.07	2.5144G	-51.47	16.48422G	-47.96	1
2437MHz	Pass	2.43799G	14.52	-15.48	796.86M	-53.09	2.39952G	-51.24	2.4G	-53.89	2.49196G	-51.95	17.68952G	-47.52	2
2437MHz	Pass	2.43799G	14.52	-15.48	709.49M	-52.69	2.39896G	-50.89	2.4G	-53.21	2.5167G	-51.90	16.92251G	-47.69	3
2437MHz	Pass	2.43799G	14.52	-15.48	2.15117G	-52.09	2.39728G	-51.15	2.4G	-53.07	2.4936G	-51.50	16.43083G	-46.72	4
2462MHz	Pass	2.43799G	14.52	-15.48	2.30437G	-52.62	2.39534G	-51.56	2.4G	-52.75	2.5192G	-51.50	5.81069G	-47.46	1
2462MHz	Pass	2.43799G	14.52	-15.48	851.62M	-52.63	2.39686G	-51.34	2.4G	-52.30	2.48402G	-51.34	16.9197G	-47.55	2
2462MHz	Pass	2.43799G	14.52	-15.48	1.6211G	-52.60	2.39742G	-51.20	2.4G	-54.51	2.50192G	-51.45	6.77156G	-46.78	3
2462MHz	Pass	2.43799G	14.52	-15.48	893.56M	-52.41	2.39874G	-51.52	2.4G	-53.24	2.4907G	-51.34	16.42802G	-47.13	4
802.11g_Nss1(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46697G	15.37	-14.63	1.76206G	-52.79	2.39986G	-21.17	2.4G	-23.10	2.48952G	-51.68	24.38752G	-45.96	1
2412MHz	Pass	2.46697G	15.37	-14.63	2.30204G	-53.35	2.39826G	-17.21	2.4G	-18.91	2.50394G	-51.30	24.37347G	-44.86	2
2412MHz	Pass	2.46697G	15.37	-14.63	1.94817G	-53.20	2.39986G	-17.24	2.4G	-18.46	2.51054G	-51.67	21.97691G	-45.71	3
2412MHz	Pass	2.46697G	15.37	-14.63	942.49M	-52.18	2.39918G	-15.26	2.4G	-17.39	2.48786G	-50.46	17.68109G	-46.11	4
2437MHz	Pass	2.46697G	15.09	-14.91	2.17156G	-53.25	2.39982G	-46.82	2.4G	-49.51	2.51234G	-51.79	5.95679G	-47.36	1
2437MHz	Pass	2.46697G	15.09	-14.91	887.15M	-52.82	2.3995G	-47.90	2.4G	-49.69	2.48668G	-51.66	16.30721G	-47.39	2
2437MHz	Pass	2.46697G	15.09	-14.91	1.88322G	-52.61	2.3995G	-48.40	2.4G	-50.82	2.4927G	-51.37	6.79123G	-46.33	3
2437MHz	Pass	2.46697G	15.09	-14.91	770.07M	-51.99	2.39988G	-36.35	2.4G	-39.33	2.4991G	-51.76	17.66704G	-47.54	4
2462MHz	Pass	2.46697G	15.09	-14.91	1.90507G	-52.03	2.39862G	-52.00	2.4835G	-50.31	2.48384G	-46.78	5.92588G	-47.07	1
2462MHz	Pass	2.46697G	15.09	-14.91	1.88759G	-52.71	2.3993G	-49.53	2.4835G	-40.78	2.4835G	-37.63	6.62827G	-47.75	2
2462MHz	Pass	2.46697G	15.09	-14.91	1.62372G	-50.82	2.39082G	-50.26	2.4835G	-46.51	2.4835G	-43.63	16.43926G	-47.53	3
2462MHz	Pass	2.46697G	15.09	-14.91	470.66M	-52.70	2.39738G	-48.10	2.4835G	-37.47	2.48386G	-37.51	6.85865G	-47.14	4
802.11ax HEW20_Nss1(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	14.40	-15.60	2.11244G	-52.13	2.39968G	-18.10	2.4G	-18.95	2.51846G	-51.49	16.3606G	-47.47	1
2412MHz	Pass	2.43574G	14.40	-15.60	2.01108G	-52.68	2.39918G	-16.82	2.4G	-18.00	2.50498G	-51.58	5.91183G	-47.78	2
2412MHz	Pass	2.43574G	14.40	-15.60	1.81158G	-52.28	2.3997G	-16.73	2.4G	-19.33	2.4934G	-51.73	5.97645G	-47.29	3
2412MHz	Pass	2.43574G	14.40	-15.60	2.19836G	-52.49	2.3997G	-15.86	2.4G	-17.24	2.49066G	-51.92	16.39712G	-47.73	4
2437MHz	Pass	2.43574G	14.40	-15.60	2.11215G	-52.38	2.3997G	-42.83	2.4G	-45.75	2.49038G	-51.63	5.88374G	-47.11	1
2437MHz	Pass	2.43574G	14.40	-15.60	860.06M	-53.04	2.3981G	-45.07	2.4G	-46.18	2.49624G	-50.26	16.38026G	-47.43	2
2437MHz	Pass	2.43574G	14.40	-15.60	815.79M	-52.90	2.3996G	-43.71	2.4G	-46.52	2.49626G	-51.76	15.22272G	-47.59	3
2437MHz	Pass	2.43574G	14.40	-15.60	795.11M	-51.68	2.39948G	-29.01	2.4G	-31.23	2.51434G	-51.80	5.88374G	-46.72	4
2462MHz	Pass	2.43574G	14.40	-15.60	767.74M	-52.84	2.39898G	-52.53	2.4835G	-48.57	2.48448G	-46.28	14.87996G	-47.87	1
2462MHz	Pass	2.43574G	14.40	-15.60	938.41M	-52.16	2.39868G	-50.60	2.4835G	-44.69	2.48412G	-42.08	6.11412G	-47.91	2
2462MHz	Pass	2.43574G	14.40	-15.60	911.61M	-53.03	2.39734G	-50.03	2.4835G	-46.90	2.48472G	-43.97	17.68952G	-47.64	3
2462MHz	Pass	2.43574G	14.40	-15.60	776.47M	-52.56	2.39726G	-51.45	2.4835G	-43.32	2.48416G	-40.78	16.32969G	-47.94	4
802.11ax HEW40_Nss1(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	10.00	-20.00	1.8869G	-52.89	2.39988G	-20.04	2.4G	-22.21	2.53282G	-51.56	17.69411G	-47.35	1
2422MHz	Pass	2.43198G	10.00	-20.00	615.67M	-52.77	2.39864G	-22.31	2.4G	-22.70	2.50154G	-50.42	5.92617G	-48.26	2
2422MHz	Pass	2.43198G	10.00	-20.00	781.98M	-53.30	2.39888G	-25.18	2.4G	-25.91	2.49762G	-51.90	16.39841G	-46.88	3
2422MHz	Pass	2.43198G	10.00	-20.00	946M	-53.16	2.3998G	-21.57	2.4G	-25.24	2.5495G	-51.84	6.84326G	-46.94	4
2437MHz	Pass	2.43198G	10.00	-20.00	1.63644G	-52.14	2.39992G	-22.60	2.4G	-23.18	2.48402G	-49.58	5.75509G	-47.74	1
2437MHz	Pass	2.43198G	10.00	-20.00	2.08155G	-52.55	2.39912G	-20.93	2.4G	-22.67	2.48422G	-48.52	6.84607G	-47.92	2
2437MHz	Pass	2.43198G	10.00	-20.00	2.19004G	-52.17	2.39992G	-23.22	2.4G	-27.65	2.48438G	-50.01	16.58912G	-47.32	3
2437MHz	Pass	2.43198G	10.00	-20.00	1.91353G	-51.86	2.39896G	-22.96	2.4G	-22.93	2.4855G	-48.54	5.83082G	-48.08	4
2452MHz	Pass	2.43198G	10.00	-20.00	808.89M	-52.23	2.3992G	-36.01	2.4G	-35.84	2.4845G	-44.04	16.71813G	-48.11	1
2452MHz	Pass	2.43198G	10.00	-20.00	931.97M	-52.93	2.39996G	-35.26	2.4G	-35.26	2.48446G	-38.70	17.61559G	-46.98	2
2452MHz	Pass	2.43198G	10.00	-20.00	2.02345G	-52.77	2.3996G	-33.83	2.4G	-38.54	2.48746G	-44.18	16.64801G	-47.50	3
2452MHz	Pass	2.43198G	10.00	-20.00	2.07268G	-53.17	2.3994G	-36.29	2.4G	-36.84	2.4845G	-41.22	6.77034G	-47.64	4

802.11b_Nss1,(1Mbps)_4TX

CSENdB

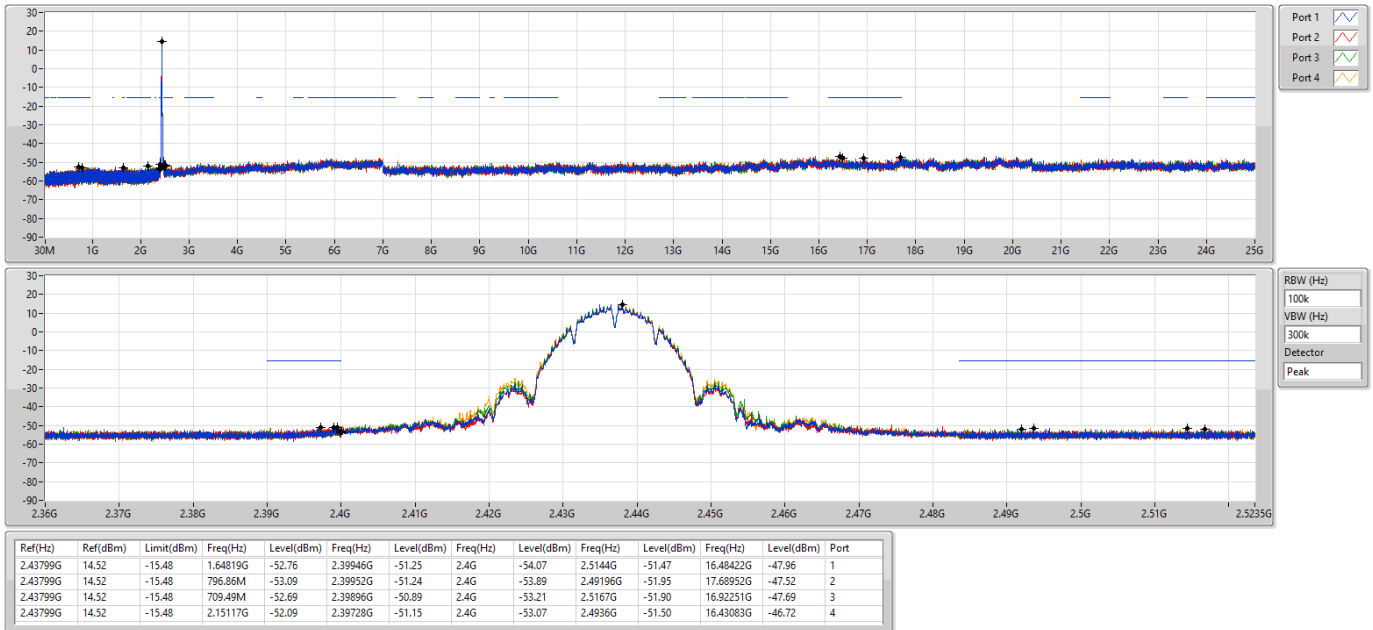
2412MHz



802.11b_Nss1,(1Mbps)_4TX

CSENdB

2437MHz

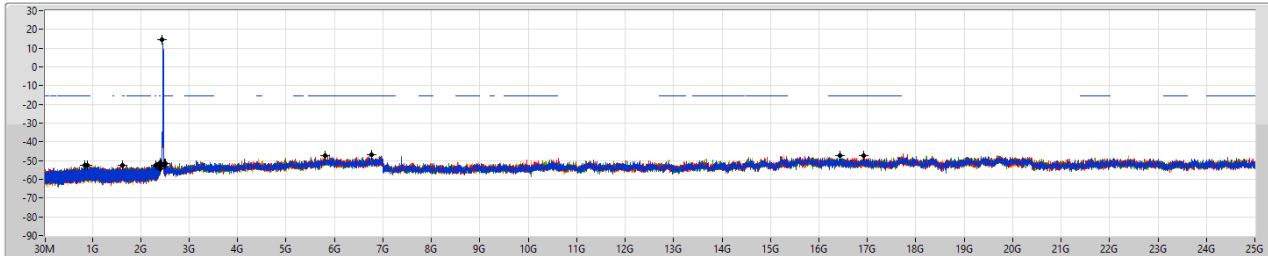


802.11b_Nss1,(1Mbps)_4TX

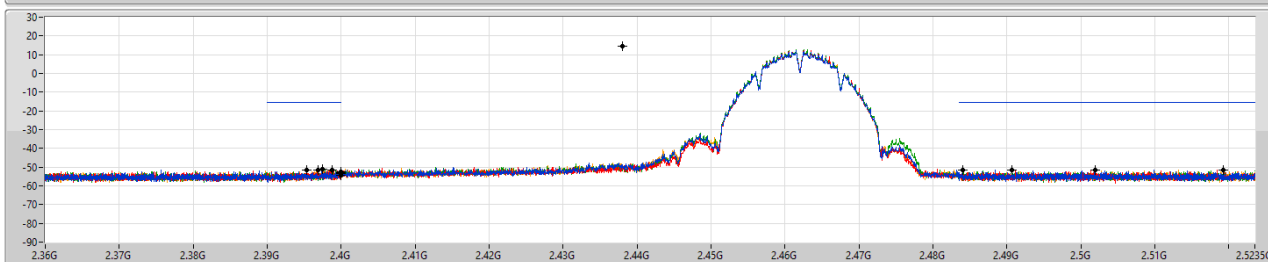
CSENdB

2462MHz

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

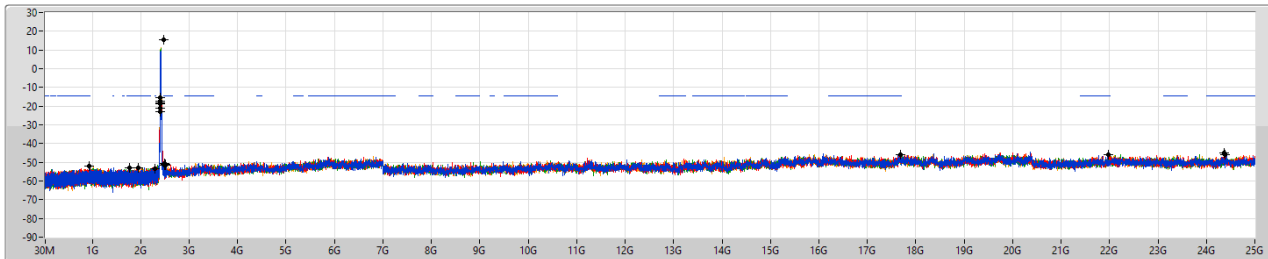
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	14.52	-15.48	2.30437G	-52.62	2.39534G	-51.56	2.4G	-52.75	2.5192G	-51.50	1
2.43799G	14.52	-15.48	851.62M	-52.63	2.39686G	-51.34	2.4G	-52.30	2.48402G	-51.34	2
2.43799G	14.52	-15.48	1.6211G	-52.60	2.39742G	-51.20	2.4G	-54.51	2.50192G	-51.45	3
2.43799G	14.52	-15.48	893.56M	-52.41	2.39874G	-51.52	2.4G	-53.24	2.4907G	-51.34	4

802.11g_Nss1,(6Mbps)_4TX

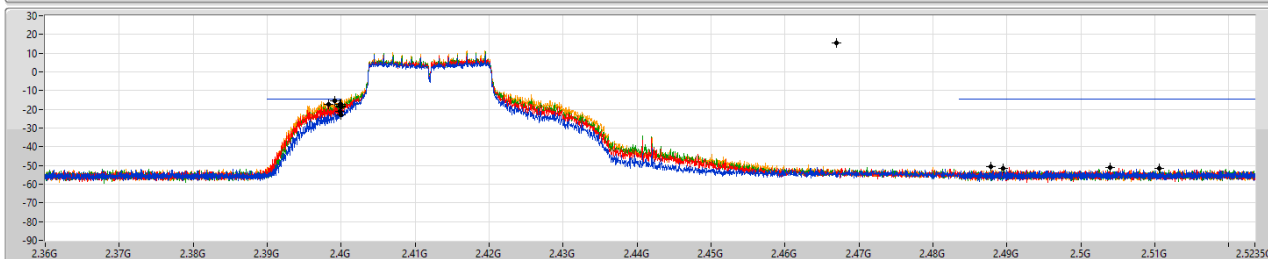
CSENdB

2412MHz

24/08/2022



Port 1
Port 2
Port 3
Port 4



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

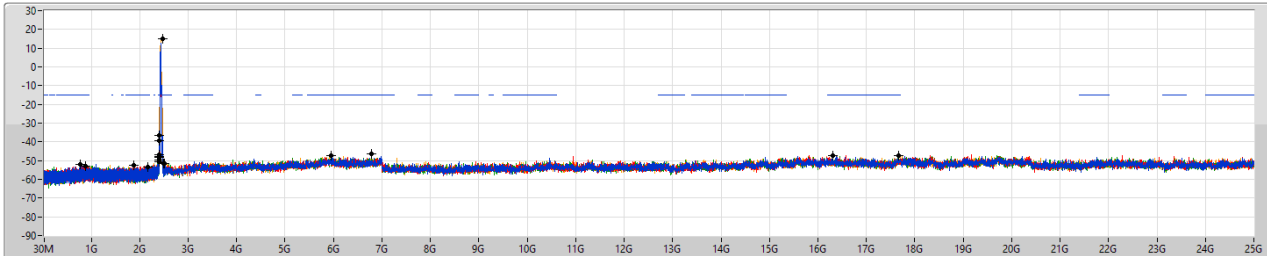
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46697G	15.37	-14.63	1.76206G	-52.79	2.39986G	-21.17	2.4G	-23.10	2.48952G	-51.68	1
2.46697G	15.37	-14.63	2.30204G	-53.35	2.39826G	-17.21	2.4G	-18.91	2.50394G	-51.30	2
2.46697G	15.37	-14.63	1.64817G	-53.20	2.39986G	-17.24	2.4G	-18.46	2.51054G	-51.67	3
2.46697G	15.37	-14.63	942.49M	-52.18	2.39918G	-15.26	2.4G	-17.39	2.46786G	-50.46	4

802.11g_Nss1,(6Mbps)_4TX

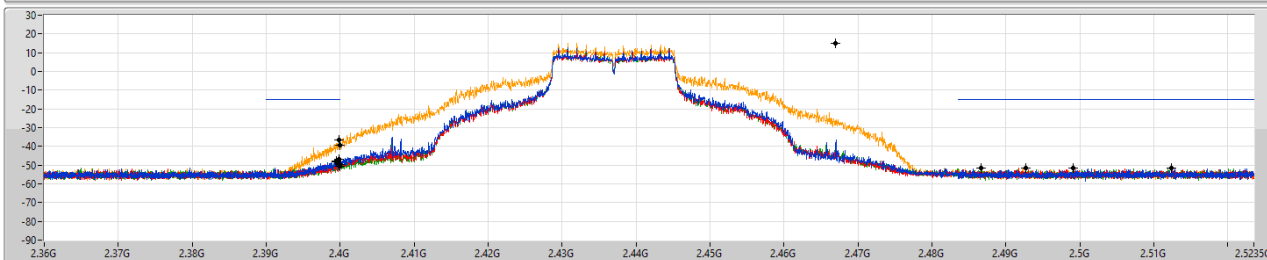
2437MHz

CSENdB

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

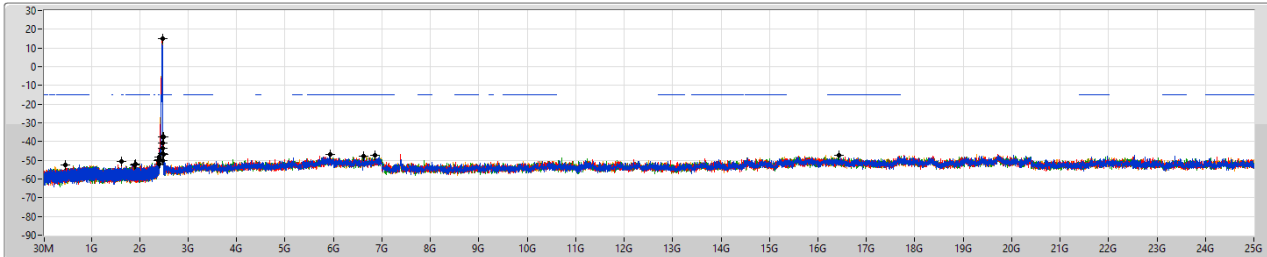
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46697G	15.09	-14.91	2.17156G	-53.25	2.39982G	-46.82	2.4G	-49.51	2.51234G	-51.79	5.95679G	-47.36	1
2.46697G	15.09	-14.91	887.15M	-52.82	2.39955G	-47.90	2.4G	-49.69	2.48668G	-51.66	16.30721G	-47.39	2
2.46697G	15.09	-14.91	1.88322G	-52.61	2.39955G	-48.40	2.4G	-50.82	2.4927G	-51.37	6.79123G	-46.33	3
2.46697G	15.09	-14.91	770.07M	-51.99	2.39988G	-36.35	2.4G	-39.33	2.4991G	-51.76	17.66704G	-47.54	4

802.11g_Nss1,(6Mbps)_4TX

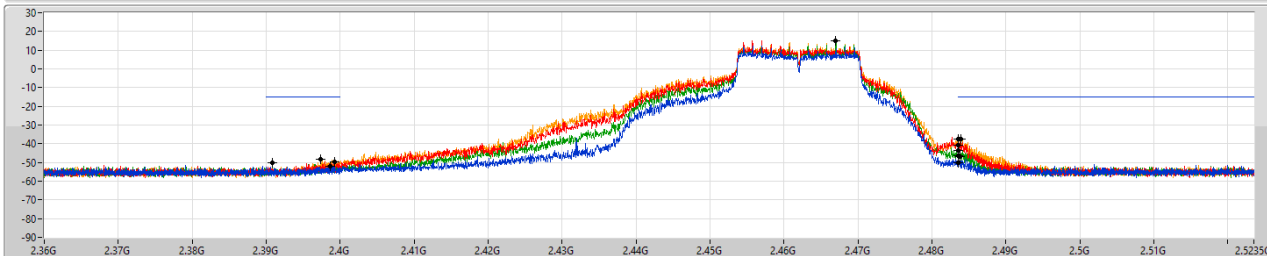
2462MHz

CSENdB

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

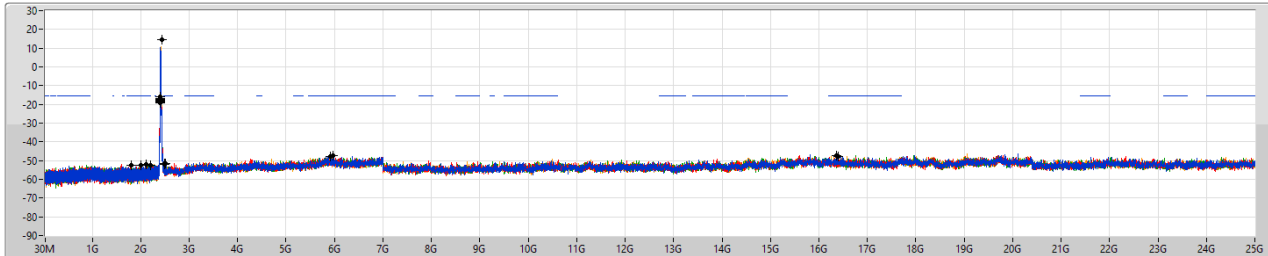
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46697G	15.09	-14.91	1.90507G	-52.03	2.39862G	-52.00	2.4835G	-50.31	2.48384G	-46.78	5.92588G	-47.07	1
2.46697G	15.09	-14.91	1.88759G	-52.71	2.3993G	-49.53	2.4835G	-40.78	2.4835G	-37.63	6.62827G	-47.75	2
2.46697G	15.09	-14.91	1.62372G	-50.82	2.39882G	-50.26	2.4835G	-46.51	2.4835G	-43.63	16.43926G	-47.53	3
2.46697G	15.09	-14.91	470.66M	-52.70	2.39738G	-48.10	2.4835G	-37.47	2.48386G	-37.51	6.85865G	-47.14	4

802.11ax HEW20_Nss1,(MCS0)_4TX

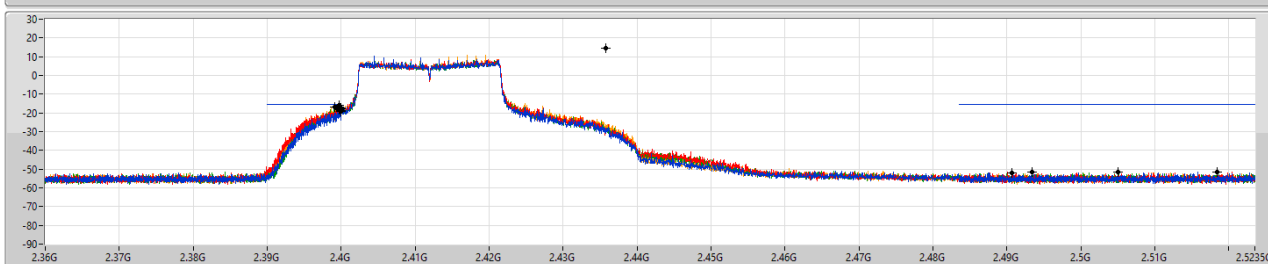
CSENdB

2412MHz

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

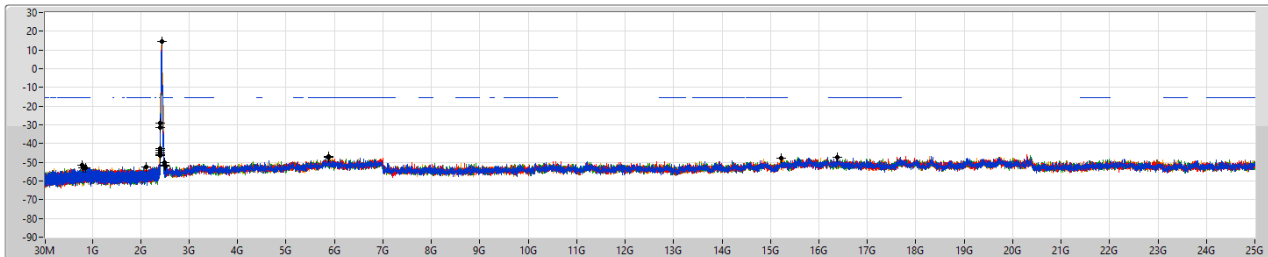
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	14.40	-15.60	2.11244G	-52.13	2.39968G	-18.10	2.4G	-18.95	2.51846G	-51.49	16.3606G	-47.47	1
2.43574G	14.40	-15.60	2.01108G	-52.68	2.39918G	-16.82	2.4G	-18.00	2.50498G	-51.58	5.91183G	-47.78	2
2.43574G	14.40	-15.60	1.81158G	-52.28	2.3997G	-16.73	2.4G	-19.33	2.4934G	-51.73	5.97645G	-47.29	3
2.43574G	14.40	-15.60	2.19836G	-52.49	2.3997G	-15.86	2.4G	-17.24	2.49066G	-51.92	16.39712G	-47.73	4

802.11ax HEW20_Nss1,(MCS0)_4TX

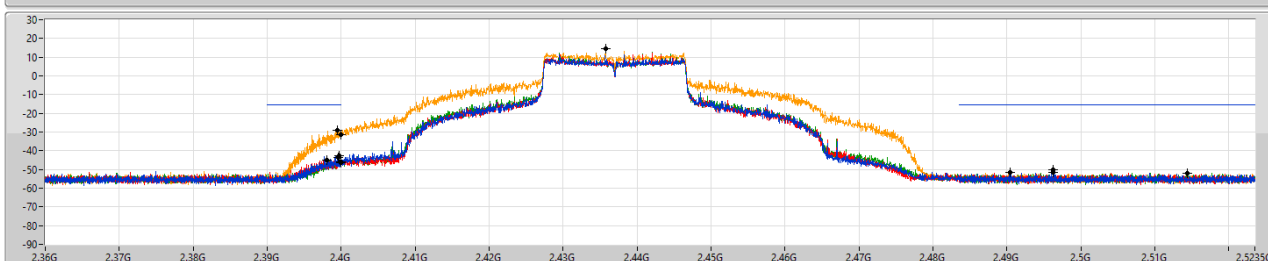
CSENdB

2437MHz

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

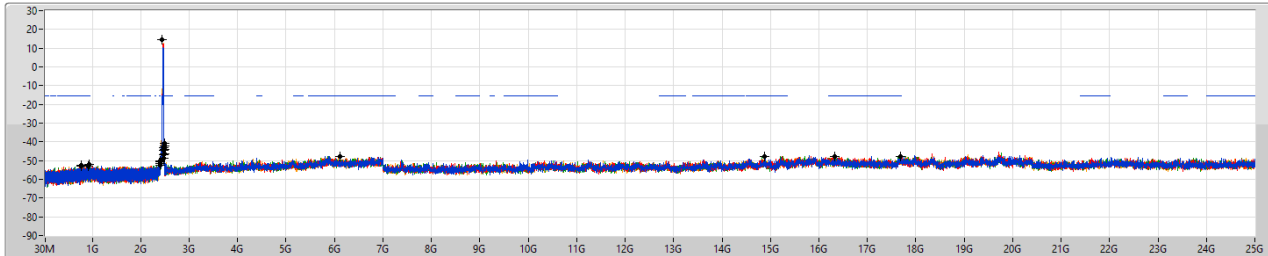
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	14.40	-15.60	2.11215G	-52.38	2.3997G	-42.83	2.4G	-45.75	2.49038G	-51.63	5.88374G	-47.11	1
2.43574G	14.40	-15.60	860.06M	-53.04	2.3981G	-45.07	2.4G	-46.18	2.49624G	-50.26	16.38026G	-47.43	2
2.43574G	14.40	-15.60	815.79M	-52.90	2.3986G	-43.71	2.4G	-46.52	2.49626G	-51.76	15.22272G	-47.59	3
2.43574G	14.40	-15.60	795.11M	-51.68	2.39948G	-29.01	2.4G	-31.23	2.51434G	-51.80	5.88374G	-46.72	4

802.11ax HEW20_Nss1,(MCS0)_4TX

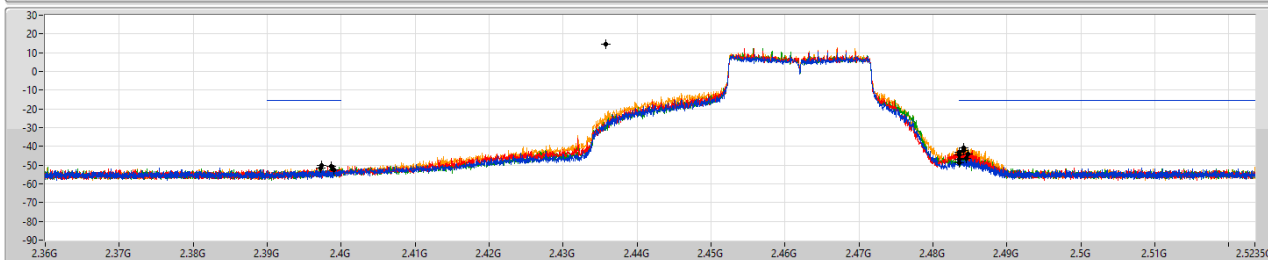
CSENdB

2462MHz

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

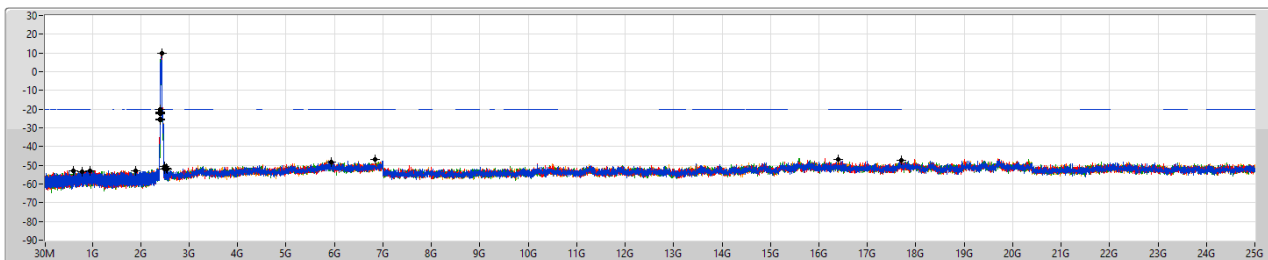
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	14.40	-15.00	767.74M	-52.84	2.39898G	-52.53	2.4835G	-48.57	2.48448G	-46.28	14.87996G	-47.87	1
2.43574G	14.40	-15.00	938.41M	-52.16	2.39888G	-50.60	2.4835G	-44.69	2.48412G	-42.08	6.11412G	-47.91	2
2.43574G	14.40	-15.00	911.61M	-53.03	2.39734G	-50.03	2.4835G	-46.90	2.48472G	-43.97	17.68952G	-47.64	3
2.43574G	14.40	-15.00	776.47M	-52.56	2.39726G	-51.45	2.4835G	-43.32	2.48416G	-40.78	16.32969G	-47.94	4

802.11ax HEW40_Nss1,(MCS0)_4TX

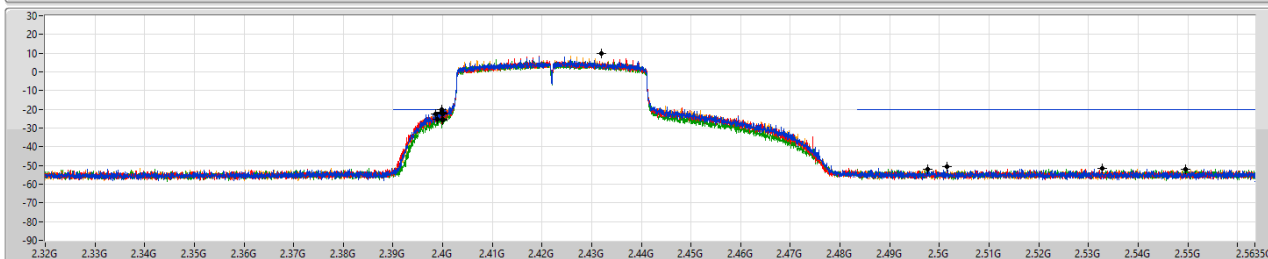
CSENdB

2422MHz

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

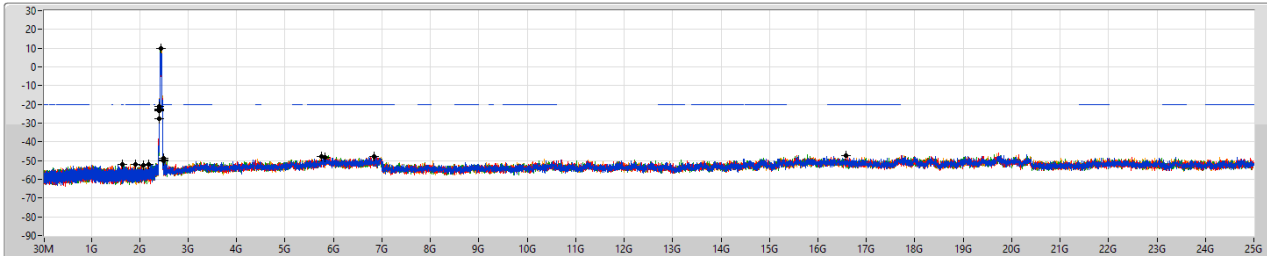
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	10.00	-20.00	1.8869G	-52.89	2.39888G	-20.04	2.4G	-22.21	2.53282G	-51.56	17.69411G	-47.35	1
2.43198G	10.00	-20.00	615.67M	-52.77	2.39864G	-22.31	2.4G	-22.70	2.50154G	-50.42	5.92617G	-48.26	2
2.43198G	10.00	-20.00	781.98M	-53.30	2.39888G	-25.18	2.4G	-25.91	2.49762G	-51.90	16.39841G	-46.88	3
2.43198G	10.00	-20.00	946M	-53.16	2.3988G	-21.57	2.4G	-25.24	2.5495G	-51.84	6.84326G	-46.94	4

802.11ax HEW40_Nss1,(MCS0)_4TX

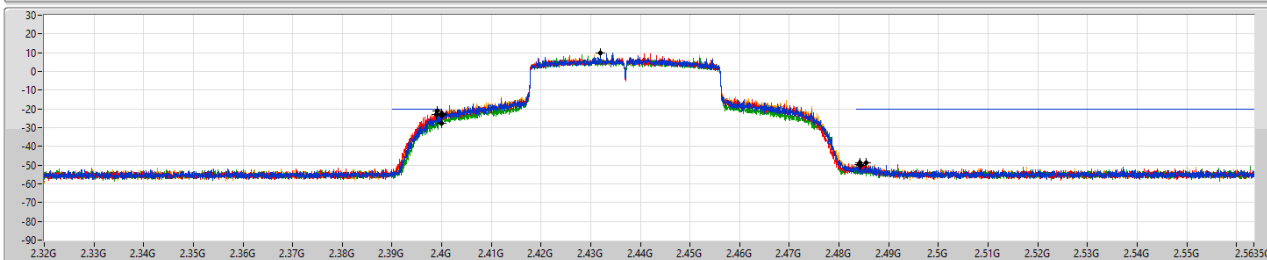
CSENdB

2437MHz

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

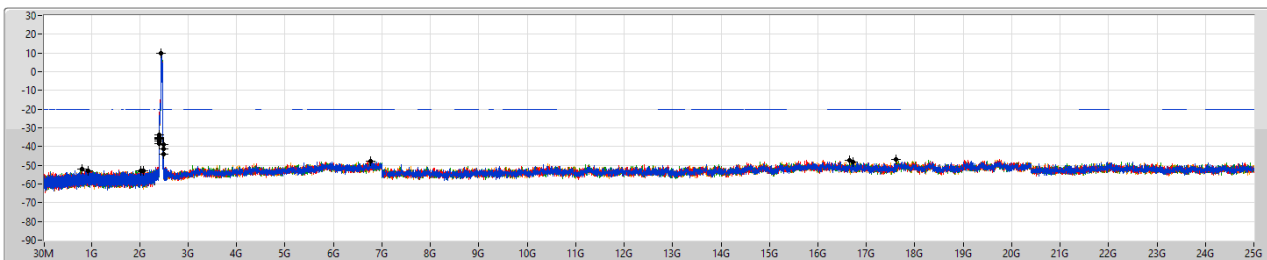
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	10.00	-20.00	1.63644G	-52.14	2.39992G	-22.60	2.4G	-23.18	2.48402G	-49.58	5.75509G	-47.74	1
2.43198G	10.00	-20.00	2.08155G	-52.55	2.39912G	-20.93	2.4G	-22.67	2.48422G	-48.52	6.84607G	-47.92	2
2.43198G	10.00	-20.00	2.19004G	-52.17	2.39992G	-23.22	2.4G	-27.65	2.48438G	-50.01	16.58912G	-47.32	3
2.43198G	10.00	-20.00	1.91353G	-51.86	2.39896G	-22.96	2.4G	-22.93	2.4855G	-48.54	5.83082G	-48.08	4

802.11ax HEW40_Nss1,(MCS0)_4TX

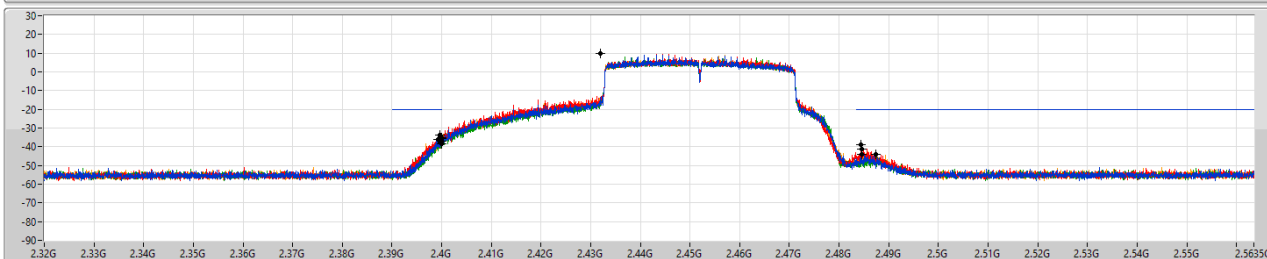
CSENdB

2452MHz

23/08/2022



Port 1
Port 2
Port 3
Port 4



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	10.00	-20.00	808.89M	-52.23	2.3992G	-36.01	2.4G	-35.84	2.4845G	-44.04	16.71613G	-48.11	1
2.43198G	10.00	-20.00	931.97M	-52.93	2.39996G	-35.26	2.4G	-35.26	2.48446G	-38.70	17.61599G	-46.98	2
2.43198G	10.00	-20.00	2.02345G	-52.77	2.3996G	-33.83	2.4G	-38.54	2.48746G	-44.18	16.64801G	-47.50	3
2.43198G	10.00	-20.00	2.07268G	-53.17	2.3994G	-36.29	2.4G	-36.84	2.4845G	-41.22	6.77034G	-47.64	4



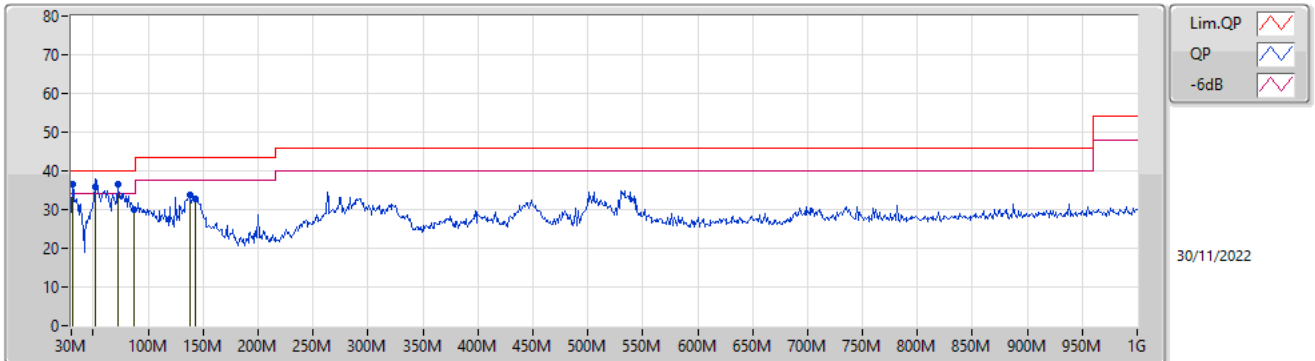
Radiated Emissions below 1GHz

Appendix F.1

Summary

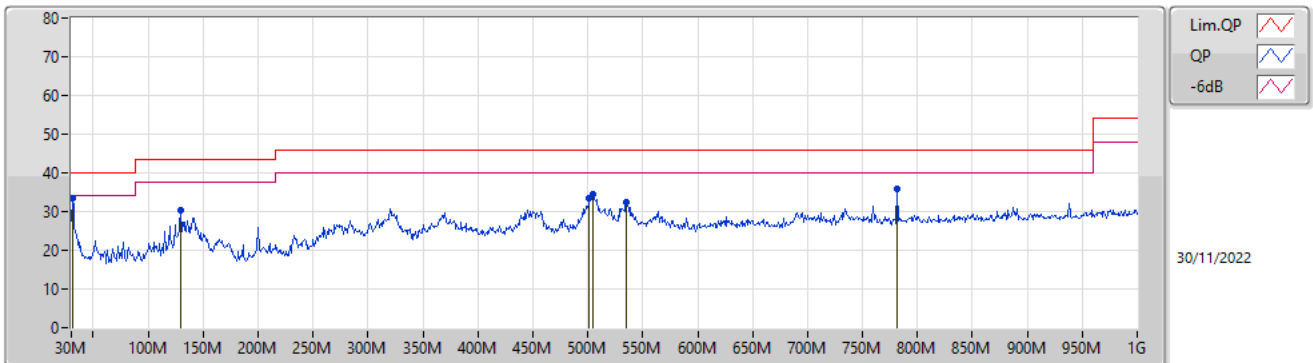
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	72.68M	36.63	40.00	-3.37	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	30.97M	36.57	40.00	-3.43	-7.59	3	Vertical	135	1.25	-	44.16	23.54	0.45	31.58
QP	52.31M	36.01	40.00	-3.99	-18.02	3	Vertical	325	1.00	-	54.03	13.16	0.69	31.87
PK	72.68M	36.63	40.00	-3.37	-18.92	3	Vertical	135	2.00	"Worst"	55.55	12.17	0.88	31.97
PK	87.23M	29.99	40.00	-10.01	-16.93	3	Vertical	251	1.50	-	46.92	14.02	1.00	31.95
PK	137.67M	33.69	43.50	-9.81	-13.55	3	Vertical	77	1.00	-	47.24	17.10	1.36	32.01
PK	143.49M	32.91	43.50	-10.59	-13.98	3	Vertical	163	1.00	-	46.89	16.63	1.40	32.01

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30.97M	33.49	40.00	-6.51	-7.59	3	Horizontal	74	1.25	"Worst"	41.08	23.54	0.45	31.58
PK	129.91M	30.46	43.50	-13.04	-13.00	3	Horizontal	141	2.00	-	43.46	17.68	1.31	31.99
PK	501.42M	33.58	46.00	-12.42	-6.22	3	Horizontal	164	2.00	-	39.80	23.21	2.97	32.40
PK	504.33M	34.59	46.00	-11.41	-6.20	3	Horizontal	191	1.00	-	40.79	23.22	2.98	32.40
PK	535.37M	32.27	46.00	-13.73	-5.66	3	Horizontal	184	1.25	-	37.93	23.62	3.11	32.39
PK	781.75M	36.01	46.00	-9.99	-3.21	3	Horizontal	217	1.00	-	39.22	25.46	3.88	32.55

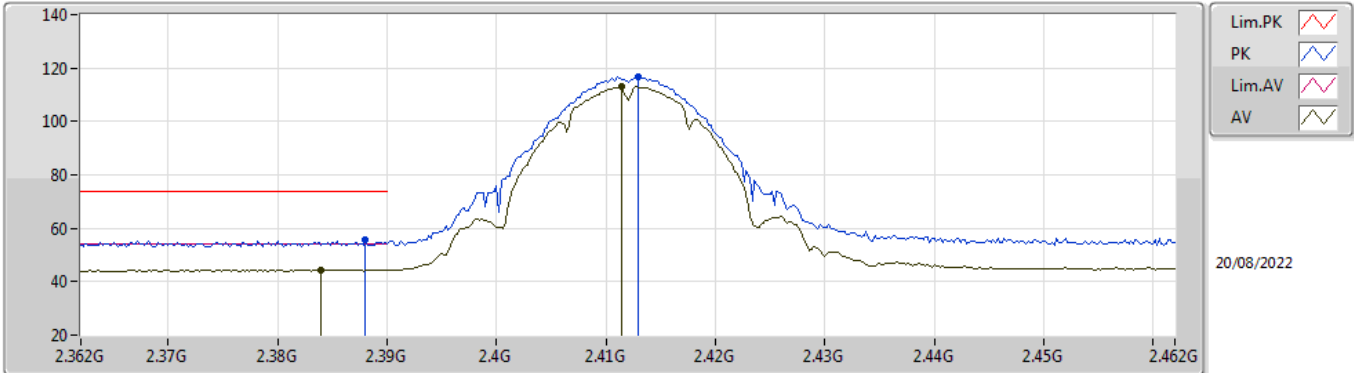


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1(1Mbps)_4TX	Pass	AV	4.92396G	53.79	54.00	-0.21	3	Horizontal	155	1.45	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

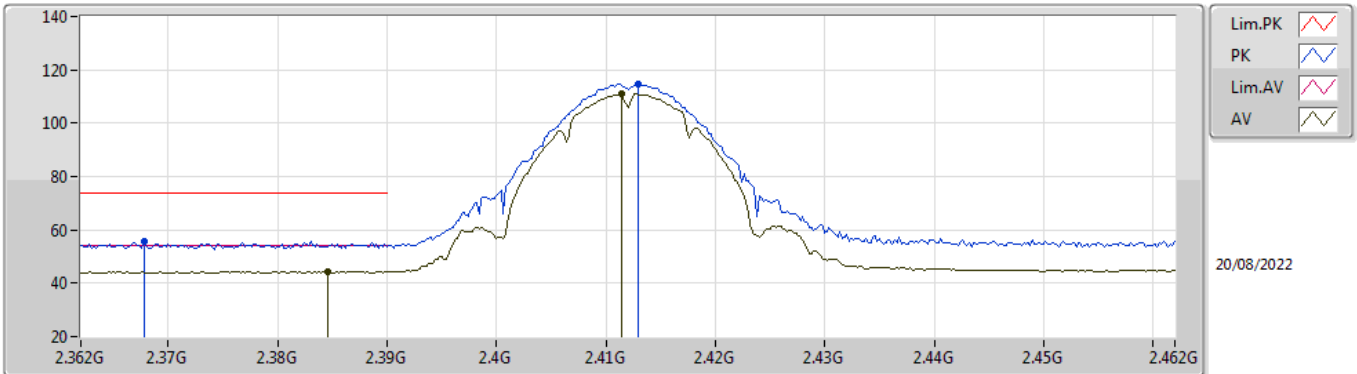


EUT_X_4TX
Setting 20.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	55.47	74.00	-18.53	24.30	3	Vertical	208	1.27	-	28.38	2.79	-
AV	2.384G	44.49	54.00	-9.51	13.33	3	Vertical	208	1.27	-	28.37	2.79	-
PK	2.413G	116.81	Inf	-Inf	85.60	3	Vertical	208	1.27	-	28.40	2.81	-
AV	2.4114G	113.04	Inf	-Inf	81.83	3	Vertical	208	1.27	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

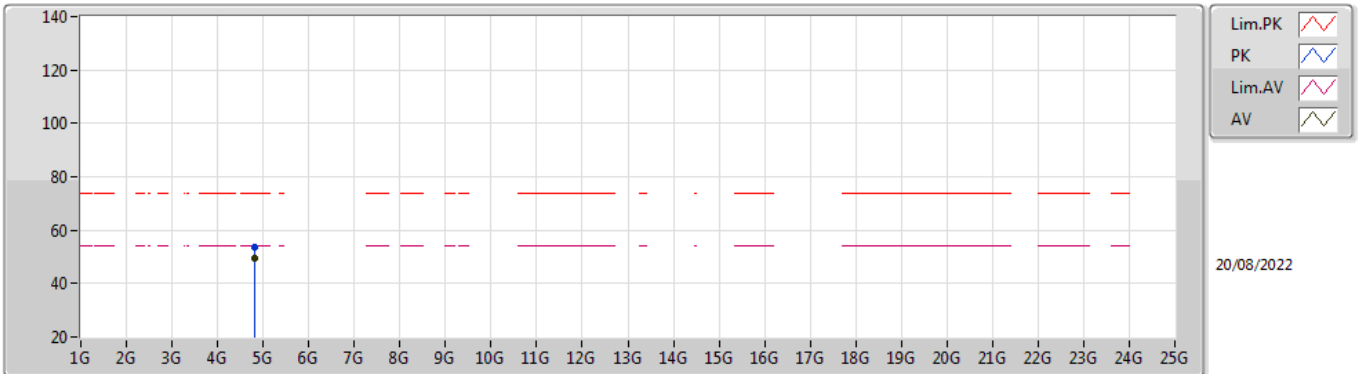


EUT_X_4TX
Setting 20.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3678G	55.76	74.00	-18.24	24.64	3	Horizontal	261	1.28	-	28.34	2.78	-	
AV	2.3846G	44.55	54.00	-9.45	13.39	3	Horizontal	261	1.28	-	28.37	2.79	-	
PK	2.413G	114.87	Inf	-Inf	83.66	3	Horizontal	261	1.28	-	28.40	2.81	-	
AV	2.4114G	111.05	Inf	-Inf	79.84	3	Horizontal	261	1.28	-	28.40	2.81	-	

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

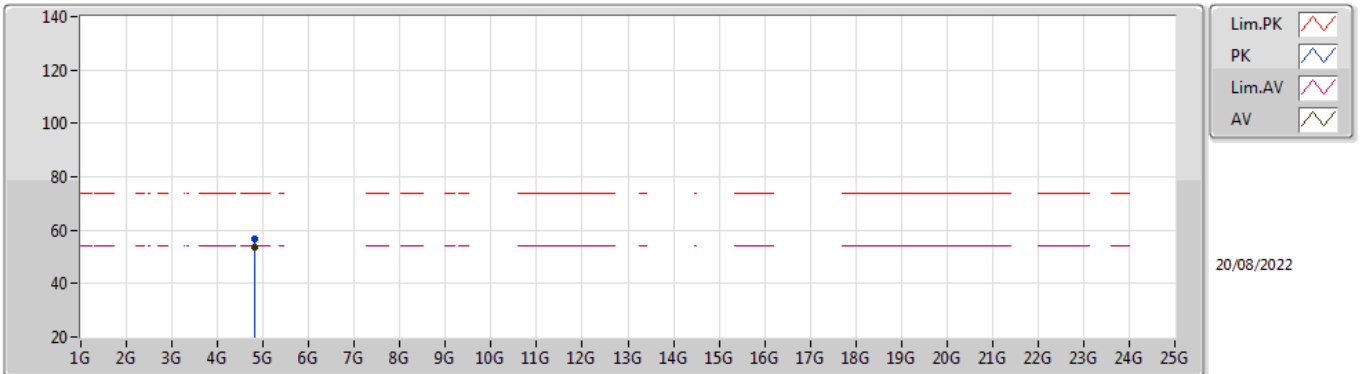


EUT Y_4TX
Setting 20.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.824G	53.64	74.00	-20.36	46.40	3	Vertical	138	2.43	-	32.94	5.10	30.80
AV	4.82395G	49.37	54.00	-4.63	42.13	3	Vertical	138	2.43	-	32.94	5.10	30.80

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

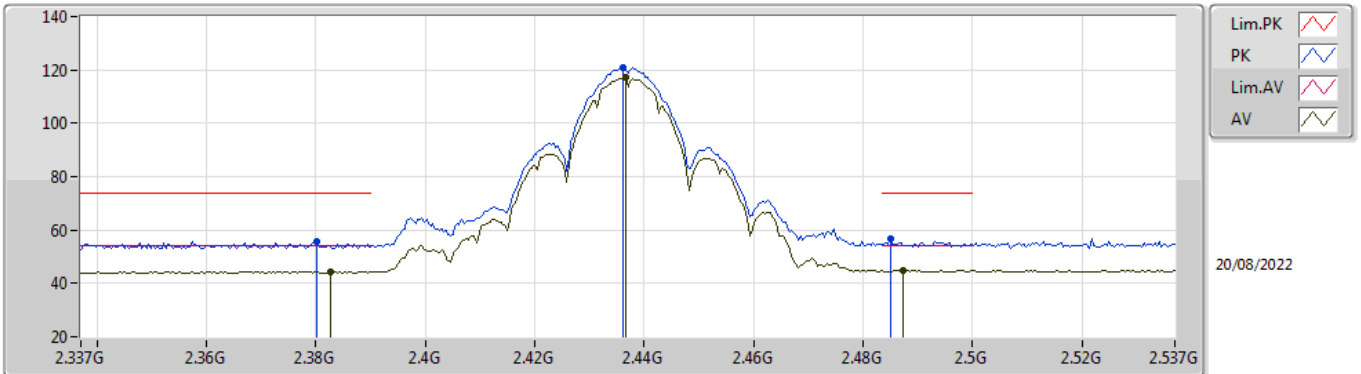


EUT Y_4TX
Setting 20.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82393G	56.98	74.00	-17.02	49.74	3	Horizontal	154	1.69	-	32.94	5.10	30.80
AV	4.82397G	53.51	54.00	-0.49	46.27	3	Horizontal	154	1.69	-	32.94	5.10	30.80

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

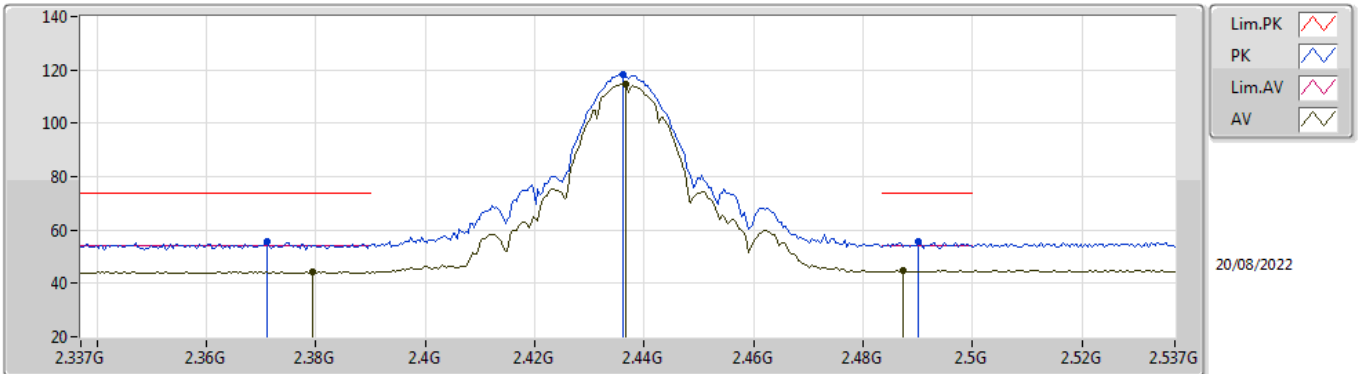


EUT_X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3802G	55.94	74.00	-18.06	24.79	3	Vertical	204	1.07	-	28.36	2.79	-
AV	2.3826G	44.47	54.00	-9.53	13.31	3	Vertical	204	1.07	-	28.37	2.79	-
PK	2.4362G	120.74	Inf	-Inf	89.50	3	Vertical	204	1.07	-	28.40	2.84	-
AV	2.4366G	117.17	Inf	-Inf	85.93	3	Vertical	204	1.07	-	28.40	2.84	-
PK	2.485G	56.92	74.00	-17.08	25.49	3	Vertical	204	1.07	-	28.54	2.89	-
AV	2.4874G	44.85	54.00	-9.15	13.41	3	Vertical	204	1.07	-	28.55	2.89	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

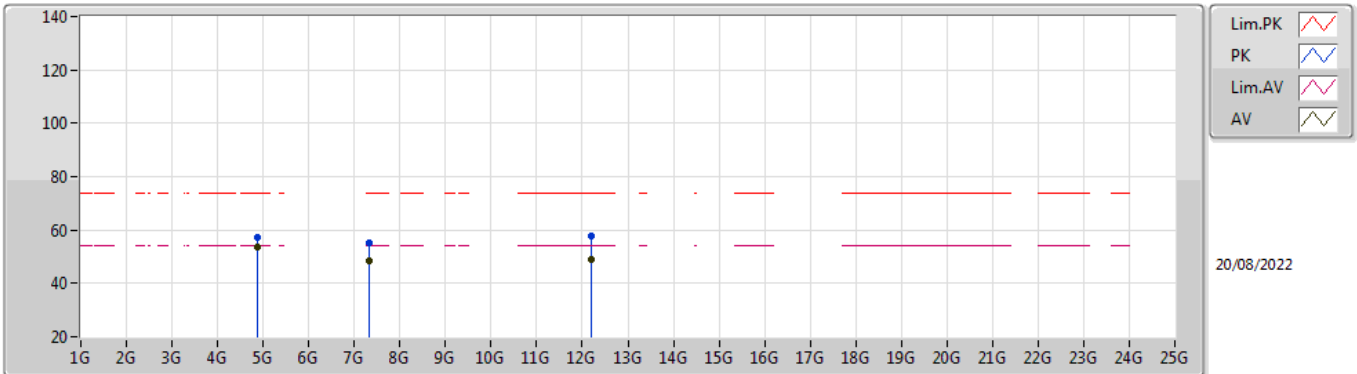


EUT_X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.371G	55.70	74.00	-18.30	24.57	3	Horizontal	261	1.70	-	28.34	2.79	-
AV	2.3794G	44.44	54.00	-9.56	13.29	3	Horizontal	261	1.70	-	28.36	2.79	-
PK	2.4362G	118.52	Inf	-Inf	87.28	3	Horizontal	261	1.70	-	28.40	2.84	-
AV	2.4366G	114.89	Inf	-Inf	83.65	3	Horizontal	261	1.70	-	28.40	2.84	-
PK	2.4902G	55.51	74.00	-18.49	24.06	3	Horizontal	261	1.70	-	28.56	2.89	-
AV	2.4874G	44.73	54.00	-9.27	13.29	3	Horizontal	261	1.70	-	28.55	2.89	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

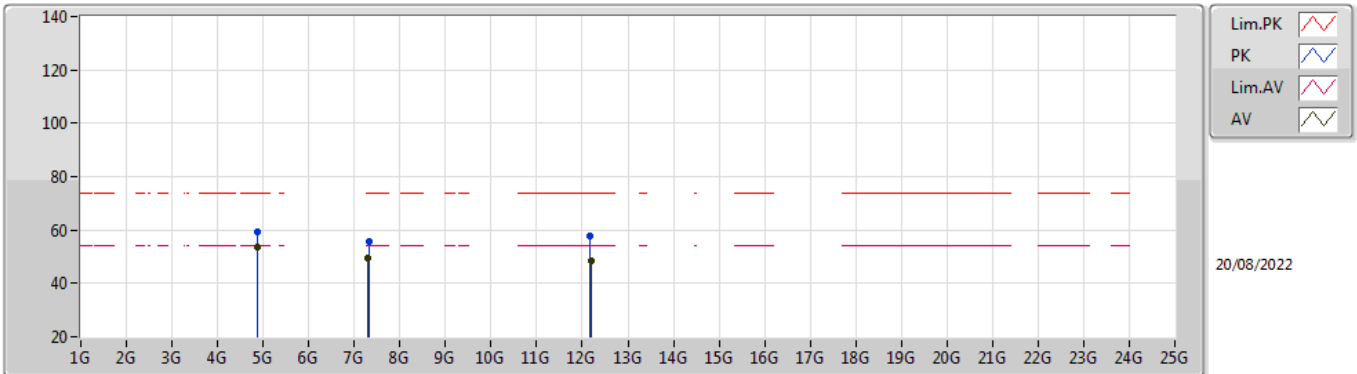


EUT_Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87392G	57.03	74.00	-16.97	49.56	3	Vertical	146	1.40	-	33.15	5.10	30.78
AV	4.874G	53.43	54.00	-0.57	45.96	3	Vertical	146	1.40	-	33.15	5.10	30.78
PK	7.31196G	55.22	74.00	-18.78	44.56	3	Vertical	144	1.92	-	36.42	6.16	31.92
AV	7.3118G	48.70	54.00	-5.30	38.04	3	Vertical	144	1.92	-	36.42	6.16	31.92
PK	12.18452G	57.59	74.00	-16.41	42.77	3	Vertical	151	2.08	-	38.92	8.19	32.29
AV	12.18408G	48.98	54.00	-5.02	34.16	3	Vertical	151	2.08	-	38.92	8.19	32.29

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

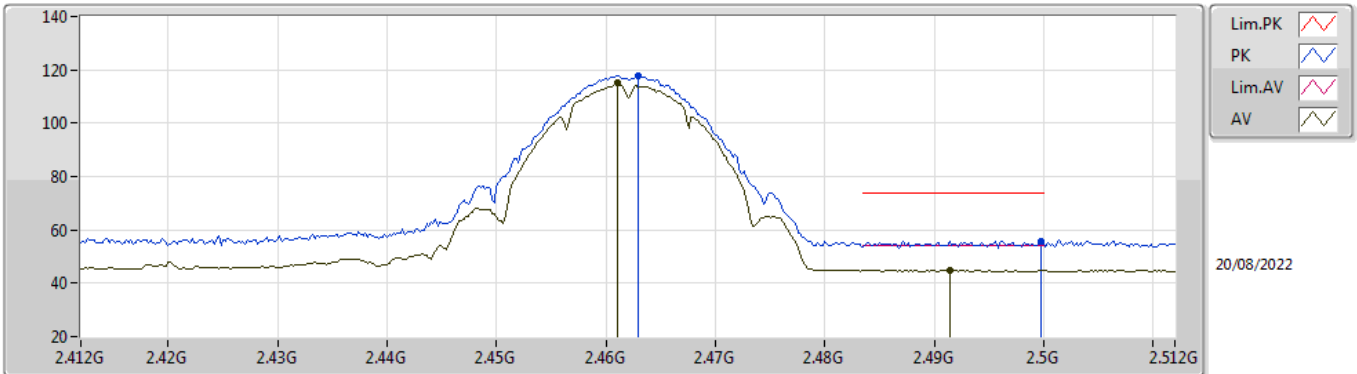


EUT_Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87398G	59.13	74.00	-14.87	51.66	3	Horizontal	117	1.80	-	33.15	5.10	30.78
AV	4.87397G	53.67	54.00	-0.33	46.20	3	Horizontal	117	1.80	-	33.15	5.10	30.78
PK	7.31202G	55.78	74.00	-18.22	45.12	3	Horizontal	200	1.79	-	36.42	6.16	31.92
AV	7.3102G	49.24	54.00	-4.76	38.58	3	Horizontal	200	1.79	-	36.42	6.16	31.92
PK	12.18216G	57.62	74.00	-16.38	42.80	3	Horizontal	207	1.49	-	38.92	8.19	32.29
AV	12.1842G	48.31	54.00	-5.69	33.49	3	Horizontal	207	1.49	-	38.92	8.19	32.29

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

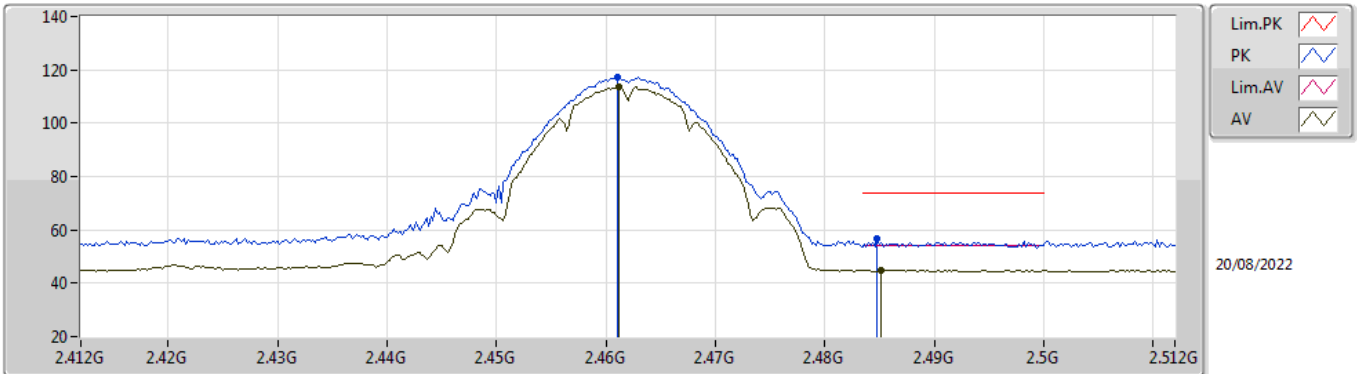


EUT_X_4TX
Setting 22.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	117.87	Inf	-Inf	86.56	3	Vertical	206	1.34	-	28.45	2.86	-
AV	2.461G	115.26	Inf	-Inf	83.96	3	Vertical	206	1.34	-	28.44	2.86	-
PK	2.4998G	55.85	74.00	-18.15	24.35	3	Vertical	206	1.34	-	28.60	2.90	-
AV	2.4914G	44.99	54.00	-9.01	13.53	3	Vertical	206	1.34	-	28.57	2.89	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

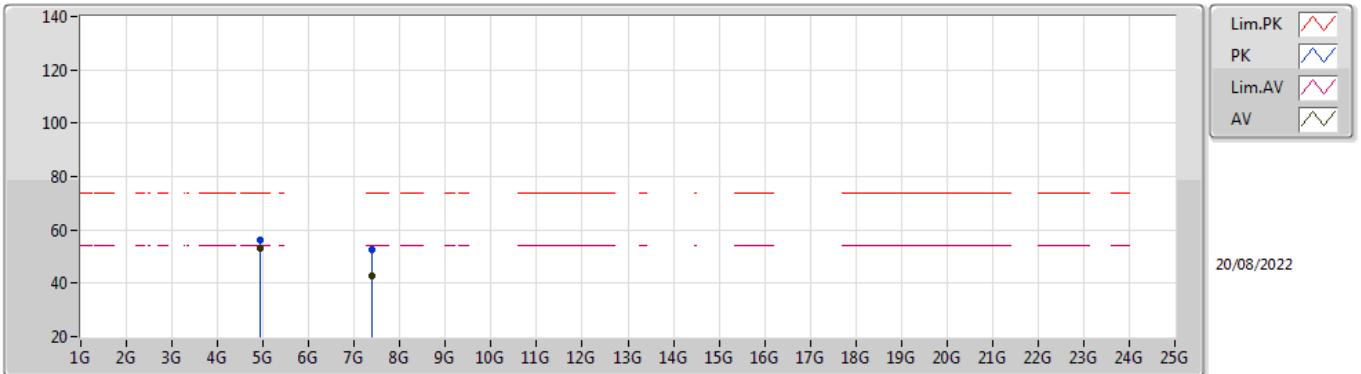


EUT_X_4TX
Setting 22.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.461G	117.22	Inf	-Inf	85.92	3	Horizontal	248	2.74	-	28.44	2.86	-	
AV	2.4612G	113.69	Inf	-Inf	82.39	3	Horizontal	248	2.74	-	28.44	2.86	-	
PK	2.4848G	56.47	74.00	-17.53	25.05	3	Horizontal	248	2.74	-	28.54	2.88	-	
AV	2.4852G	45.08	54.00	-8.92	13.65	3	Horizontal	248	2.74	-	28.54	2.89	-	

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

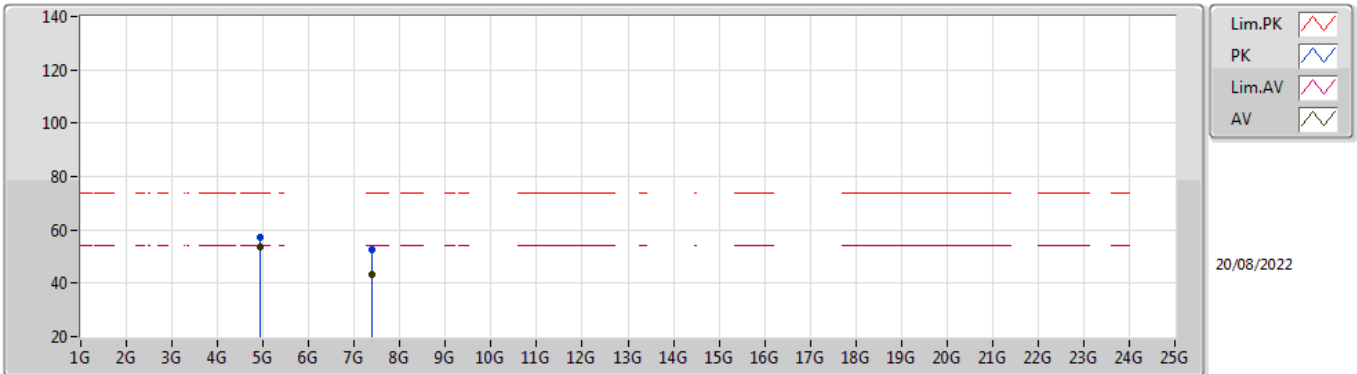


EUT Y_4TX
Setting 22.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92408G	56.20	74.00	-17.80	48.61	3	Vertical	146	2.47	-	33.25	5.10	30.76
AV	4.92398G	52.85	54.00	-1.15	45.26	3	Vertical	146	2.47	-	33.25	5.10	30.76
PK	7.38508G	52.34	74.00	-21.66	41.61	3	Vertical	133	1.82	-	36.50	6.19	31.96
AV	7.38532G	42.85	54.00	-11.15	32.12	3	Vertical	133	1.82	-	36.50	6.19	31.96

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

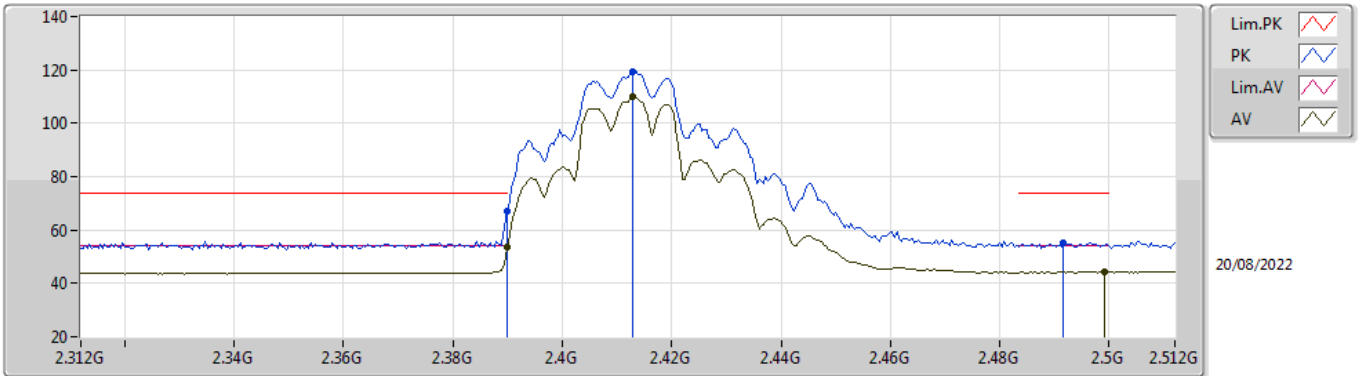


EUT Y_4TX
Setting 22.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92404G	57.33	74.00	-16.67	49.74	3	Horizontal	155	1.45	-	33.25	5.10	30.76
AV	4.92396G	53.79	54.00	-0.21	46.20	3	Horizontal	155	1.45	-	33.25	5.10	30.76
PK	7.38536G	52.60	74.00	-21.40	41.87	3	Horizontal	185	2.13	-	36.50	6.19	31.96
AV	7.38536G	43.02	54.00	-10.98	32.29	3	Horizontal	185	2.13	-	36.50	6.19	31.96

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

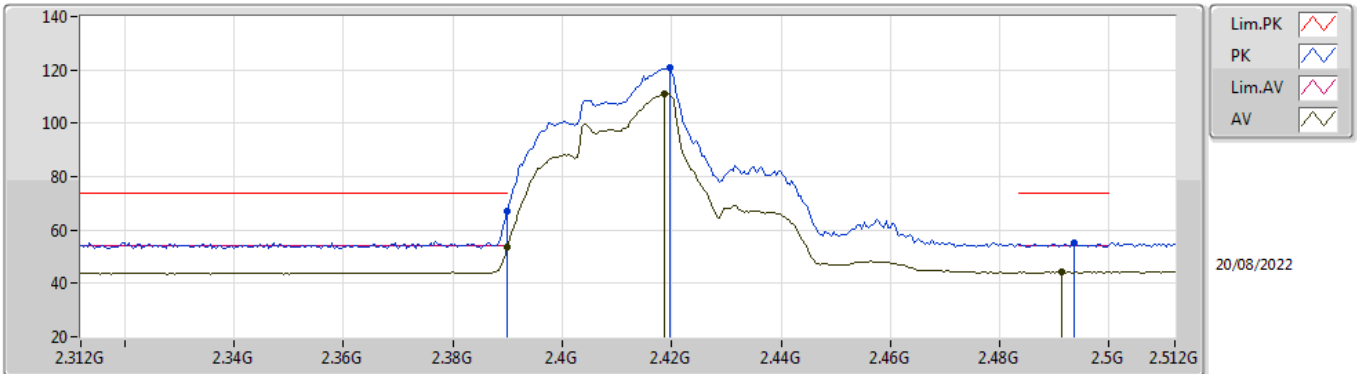


EUT X_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	67.03	74.00	-6.97	35.86	3	Vertical	218	1.14	-	28.38	2.79	-	
AV	2.39G	53.61	54.00	-0.39	22.44	3	Vertical	218	1.14	-	28.38	2.79	-	
PK	2.4128G	119.17	Inf	-Inf	87.96	3	Vertical	218	1.14	-	28.40	2.81	-	
AV	2.4128G	109.87	Inf	-Inf	78.66	3	Vertical	218	1.14	-	28.40	2.81	-	
PK	2.4916G	55.19	74.00	-18.81	23.73	3	Vertical	218	1.14	-	28.57	2.89	-	
AV	2.4992G	44.20	54.00	-9.80	12.70	3	Vertical	218	1.14	-	28.60	2.90	-	

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

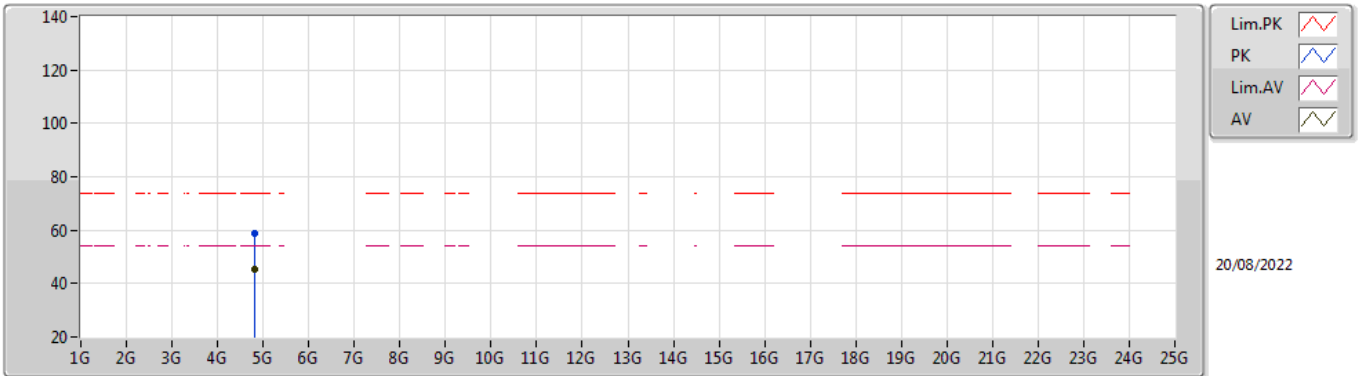


EUT X_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	67.02	74.00	-6.98	35.85	3	Horizontal	293	1.69	-	28.38	2.79	-
AV	2.39G	53.47	54.00	-0.53	22.30	3	Horizontal	293	1.69	-	28.38	2.79	-
PK	2.4196G	120.89	Inf	-Inf	89.67	3	Horizontal	293	1.69	-	28.40	2.82	-
AV	2.4188G	111.14	Inf	-Inf	79.92	3	Horizontal	293	1.69	-	28.40	2.82	-
PK	2.4936G	54.99	74.00	-19.01	23.53	3	Horizontal	293	1.69	-	28.57	2.89	-
AV	2.4912G	44.19	54.00	-9.81	12.74	3	Horizontal	293	1.69	-	28.56	2.89	-

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

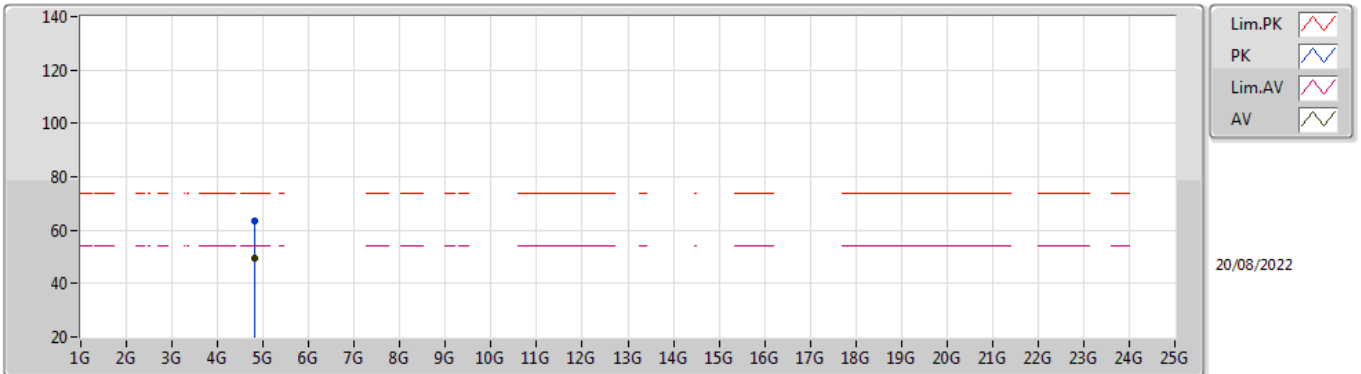


EUT Y_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8156G	58.83	74.00	-15.17	51.65	3	Vertical	73	2.41	-	32.89	5.10	30.81
AV	4.8154G	45.21	54.00	-8.79	38.03	3	Vertical	73	2.41	-	32.89	5.10	30.81

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

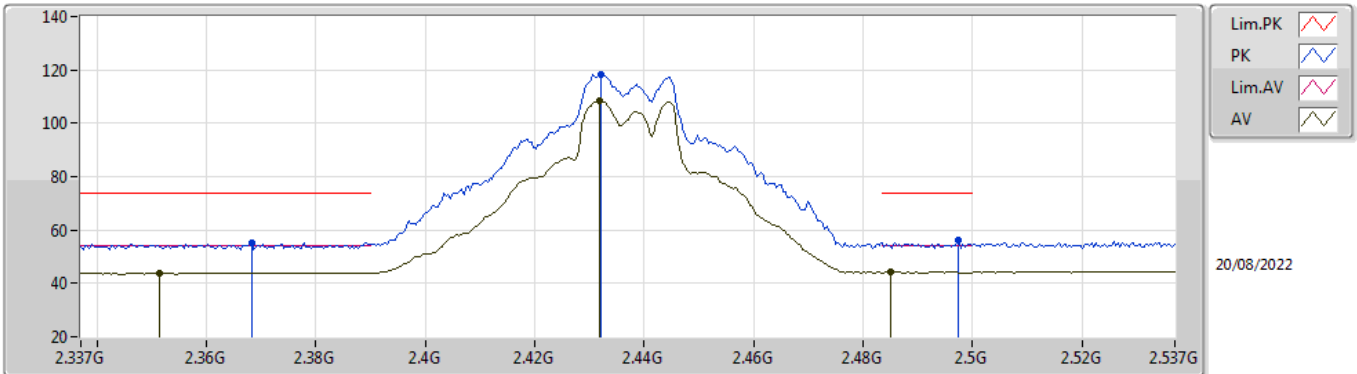


EUT Y_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.817G	63.34	74.00	-10.66	56.15	3	Horizontal	126	1.71	-	32.90	5.10	30.81	
AV	4.8166G	49.23	54.00	-4.77	42.04	3	Horizontal	126	1.71	-	32.90	5.10	30.81	

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

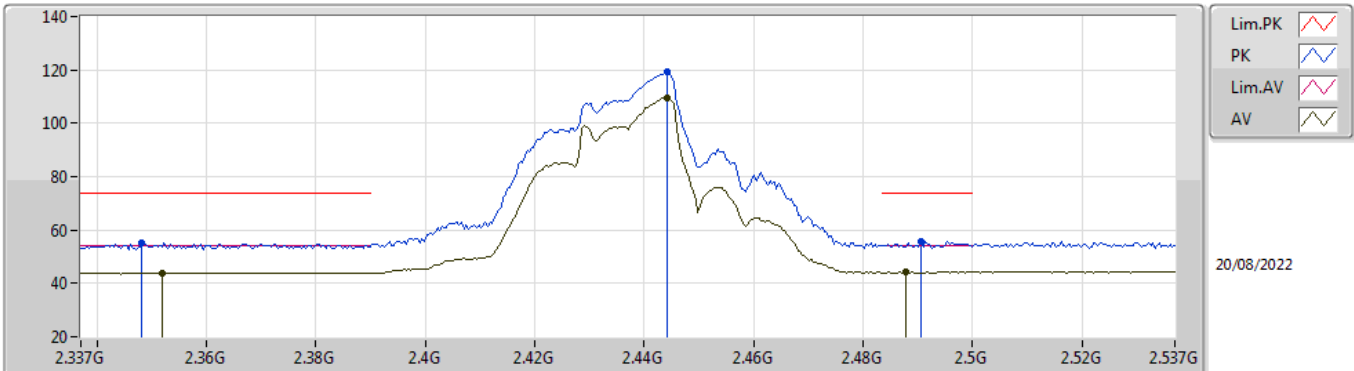


EUT_X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3682G	55.28	74.00	-18.72	24.16	3	Vertical	265	1.35	-	28.34	2.78	-
AV	2.3514G	43.93	54.00	-10.07	12.85	3	Vertical	265	1.35	-	28.30	2.78	-
PK	2.4322G	118.50	Inf	-Inf	87.27	3	Vertical	265	1.35	-	28.40	2.83	-
AV	2.4318G	108.58	Inf	-Inf	77.35	3	Vertical	265	1.35	-	28.40	2.83	-
PK	2.4974G	56.04	74.00	-17.96	24.55	3	Vertical	265	1.35	-	28.59	2.90	-
AV	2.485G	44.21	54.00	-9.79	12.78	3	Vertical	265	1.35	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

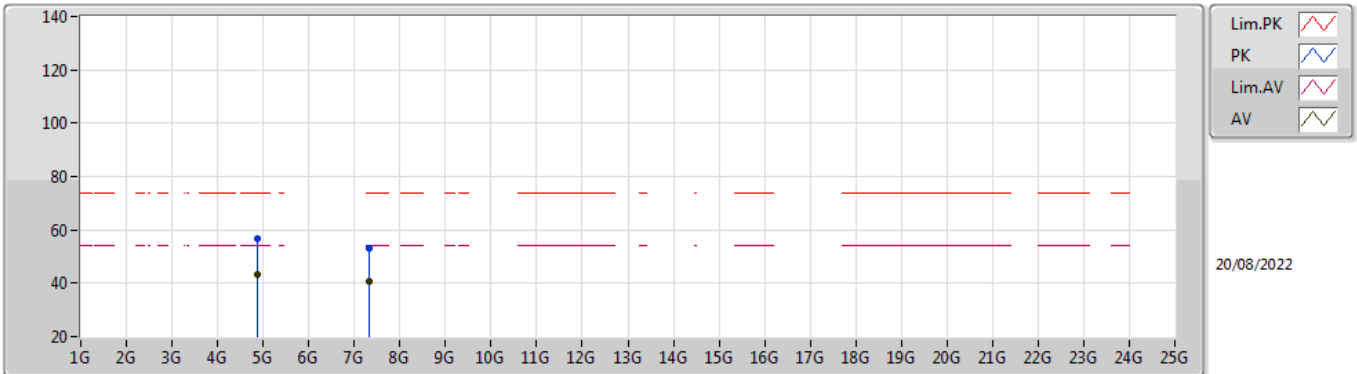


EUT X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3482G	55.33	74.00	-18.67	24.27	3	Horizontal	288	2.59	-	28.29	2.77	-
AV	2.3518G	43.88	54.00	-10.12	12.80	3	Horizontal	288	2.59	-	28.30	2.78	-
PK	2.4442G	119.47	Inf	-Inf	88.23	3	Horizontal	288	2.59	-	28.40	2.84	-
AV	2.4442G	109.37	Inf	-Inf	78.13	3	Horizontal	288	2.59	-	28.40	2.84	-
PK	2.4906G	55.63	74.00	-18.37	24.18	3	Horizontal	288	2.59	-	28.56	2.89	-
AV	2.4878G	44.28	54.00	-9.72	12.84	3	Horizontal	288	2.59	-	28.55	2.89	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

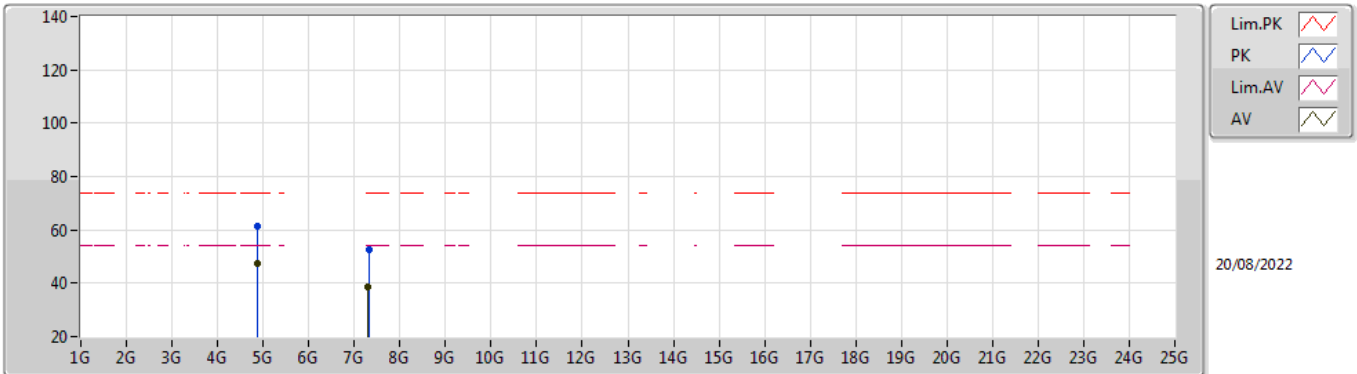


EUT Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.879G	56.83	74.00	-17.17	49.35	3	Vertical	155	2.89	-	33.16	5.10	30.78
AV	4.88G	43.33	54.00	-10.67	35.85	3	Vertical	155	2.89	-	33.16	5.10	30.78
PK	7.3128G	53.28	74.00	-20.72	42.61	3	Vertical	140	1.80	-	36.43	6.16	31.92
AV	7.3126G	40.55	54.00	-13.45	29.88	3	Vertical	140	1.80	-	36.43	6.16	31.92

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

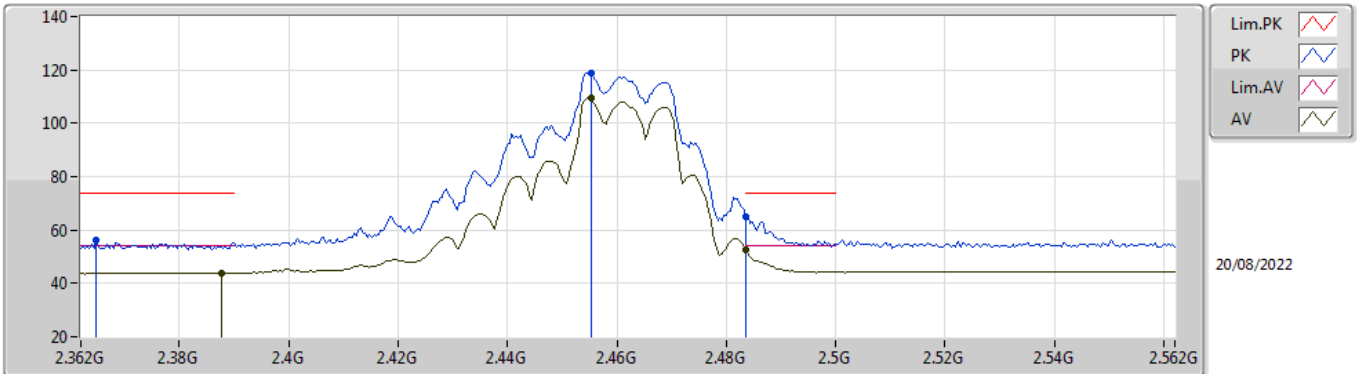


EUT Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8788G	61.21	74.00	-12.79	53.73	3	Horizontal	125	1.78	-	33.16	5.10	30.78
AV	4.88G	47.22	54.00	-6.78	39.74	3	Horizontal	125	1.78	-	33.16	5.10	30.78
PK	7.3116G	52.78	74.00	-21.22	42.12	3	Horizontal	182	3.00	-	36.42	6.16	31.92
AV	7.3102G	38.84	54.00	-15.16	28.18	3	Horizontal	182	3.00	-	36.42	6.16	31.92

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

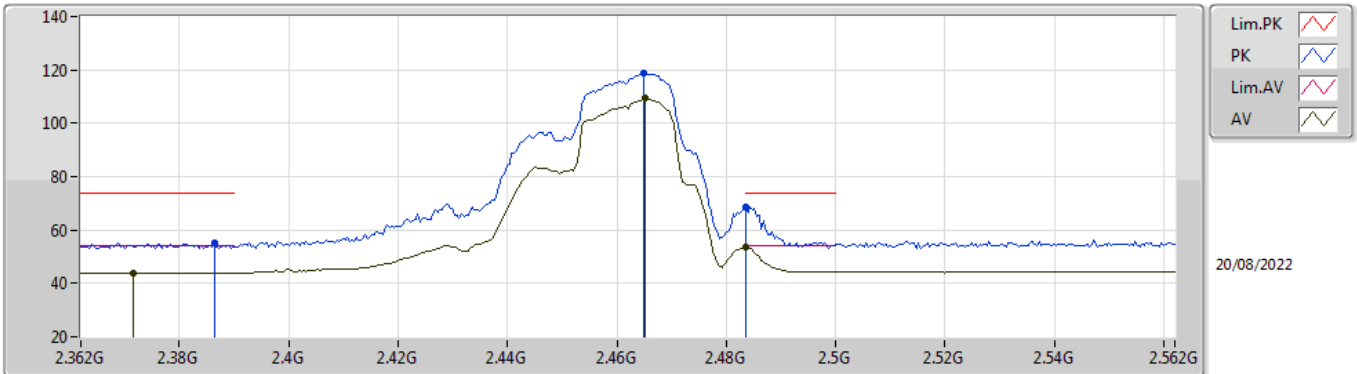


EUT X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3648G	55.96	74.00	-18.04	24.85	3	Vertical	203	1.01	-	28.33	2.78	-	
AV	2.3876G	43.97	54.00	-10.03	12.80	3	Vertical	203	1.01	-	28.38	2.79	-	
PK	2.4552G	118.83	Inf	-Inf	87.55	3	Vertical	203	1.01	-	28.42	2.86	-	
AV	2.4552G	109.27	Inf	-Inf	77.99	3	Vertical	203	1.01	-	28.42	2.86	-	
PK	2.4835G	64.85	74.00	-9.15	33.44	3	Vertical	203	1.01	-	28.53	2.88	-	
AV	2.4835G	52.38	54.00	-1.62	20.97	3	Vertical	203	1.01	-	28.53	2.88	-	

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

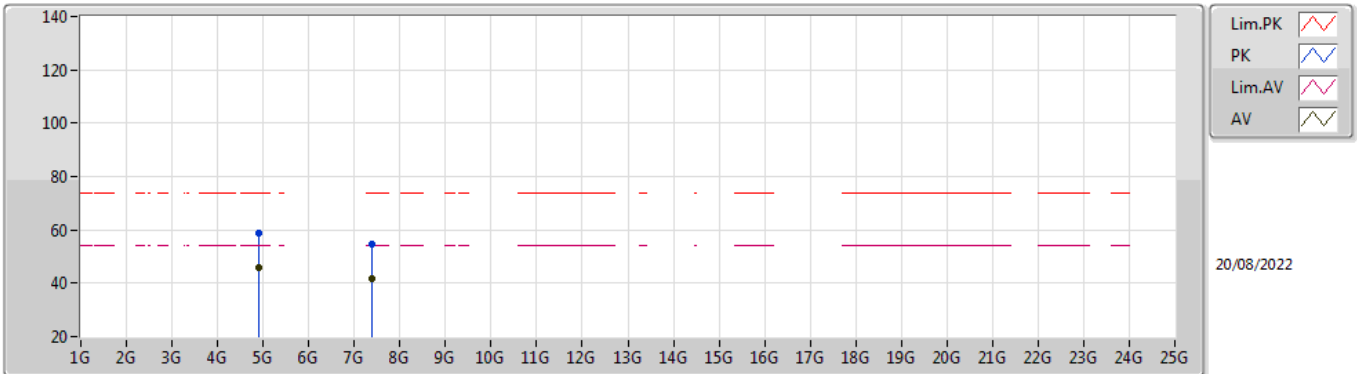


EUT X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3864G	55.15	74.00	-18.85	23.99	3	Horizontal	252	1.30	-	28.37	2.79	-
AV	2.3716G	43.95	54.00	-10.05	12.82	3	Horizontal	252	1.30	-	28.34	2.79	-
PK	2.4648G	118.93	Inf	-Inf	87.61	3	Horizontal	252	1.30	-	28.46	2.86	-
AV	2.4652G	109.32	Inf	-Inf	77.99	3	Horizontal	252	1.30	-	28.46	2.87	-
PK	2.4835G	68.69	74.00	-5.31	37.28	3	Horizontal	252	1.30	-	28.53	2.88	-
AV	2.4835G	53.58	54.00	-0.42	22.17	3	Horizontal	252	1.30	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

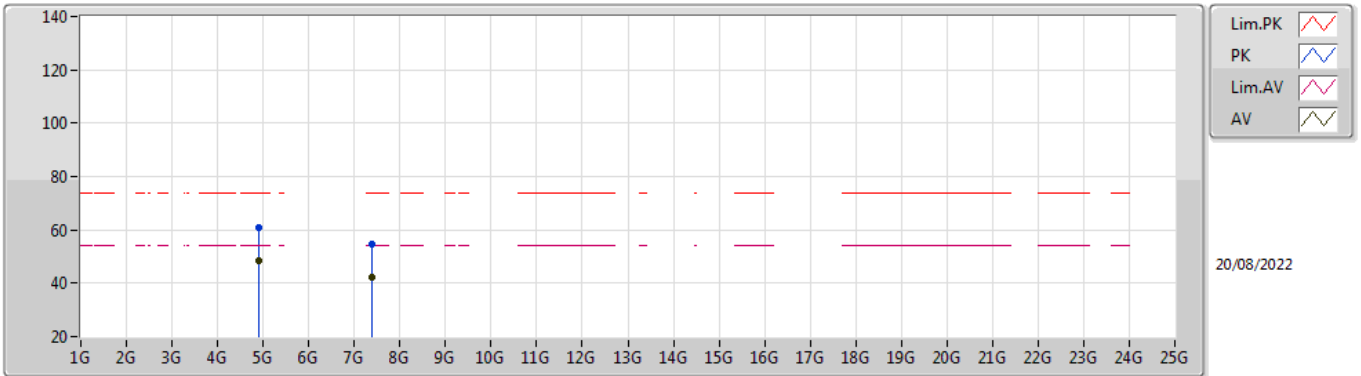


EUT_Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9168G	58.67	74.00	-15.33	51.10	3	Vertical	156	2.84	-	33.23	5.10	30.76
AV	4.9174G	46.01	54.00	-7.99	38.44	3	Vertical	156	2.84	-	33.23	5.10	30.76
PK	7.388G	54.66	74.00	-19.34	43.94	3	Vertical	141	1.97	-	36.50	6.19	31.97
AV	7.3878G	41.58	54.00	-12.42	30.85	3	Vertical	141	1.97	-	36.50	6.19	31.96

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

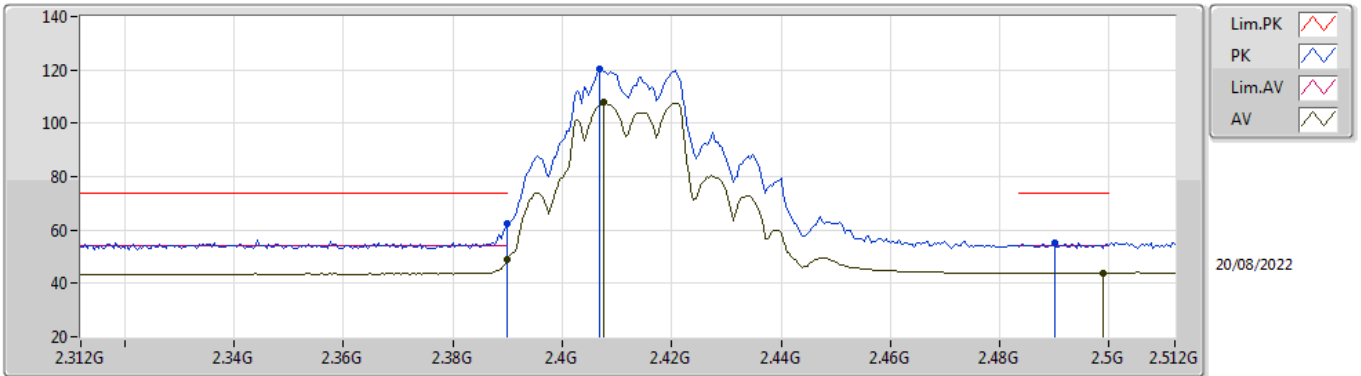


EUT Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.9184G	61.01	74.00	-12.99	53.43	3	Horizontal	126	1.84	-	33.24	5.10	30.76	
AV	4.9174G	48.28	54.00	-5.72	40.71	3	Horizontal	126	1.84	-	33.23	5.10	30.76	
PK	7.3884G	54.60	74.00	-19.40	43.88	3	Horizontal	176	1.50	-	36.50	6.19	31.97	
AV	7.3898G	42.40	54.00	-11.60	31.68	3	Horizontal	176	1.50	-	36.50	6.19	31.97	

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

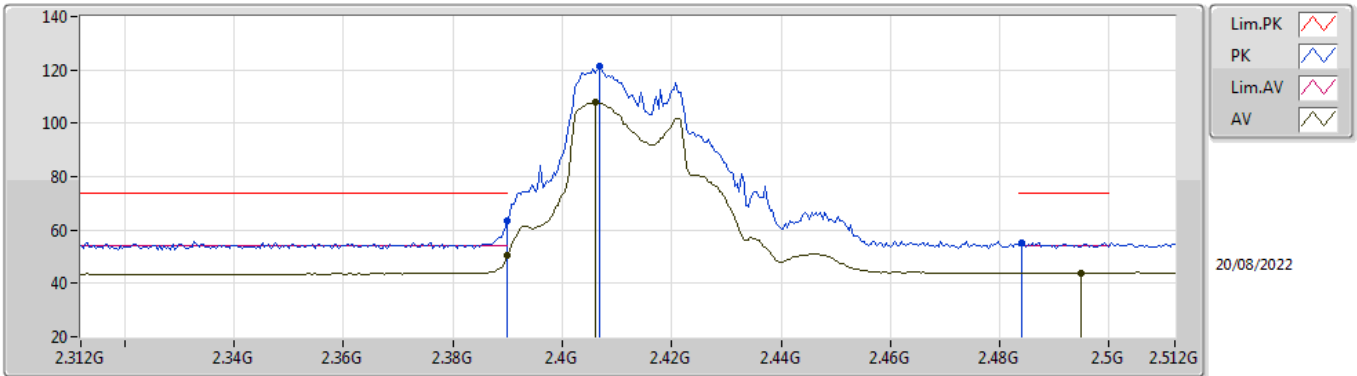


EUT_X_4TX
Setting 22.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	62.38	74.00	-11.62	31.21	3	Vertical	272	1.13	-	28.38	2.79	-
AV	2.39G	48.85	54.00	-5.15	17.68	3	Vertical	272	1.13	-	28.38	2.79	-
PK	2.4068G	120.47	Inf	-Inf	89.26	3	Vertical	272	1.13	-	28.40	2.81	-
AV	2.4076G	107.88	Inf	-Inf	76.67	3	Vertical	272	1.13	-	28.40	2.81	-
PK	2.49G	55.04	74.00	-18.96	23.59	3	Vertical	272	1.13	-	28.56	2.89	-
AV	2.4988G	44.00	54.00	-10.00	12.50	3	Vertical	272	1.13	-	28.60	2.90	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

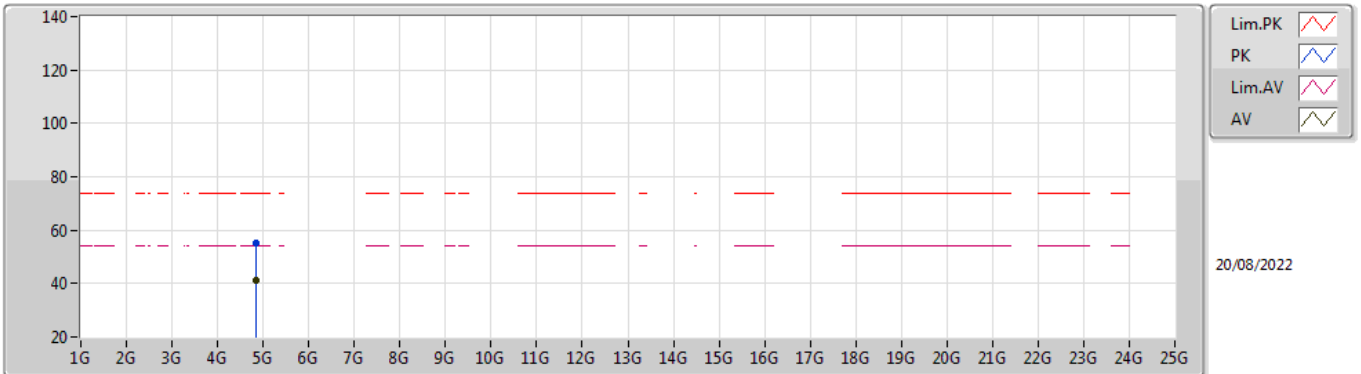


EUT_X_4TX
Setting 22.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	63.35	74.00	-10.65	32.18	3	Horizontal	292	2.65	-	28.38	2.79	-
AV	2.39G	50.34	54.00	-3.66	19.17	3	Horizontal	292	2.65	-	28.38	2.79	-
PK	2.4068G	121.47	Inf	-Inf	90.26	3	Horizontal	292	2.65	-	28.40	2.81	-
AV	2.406G	107.69	Inf	-Inf	76.48	3	Horizontal	292	2.65	-	28.40	2.81	-
PK	2.484G	55.33	74.00	-18.67	23.91	3	Horizontal	292	2.65	-	28.54	2.88	-
AV	2.4948G	43.98	54.00	-10.02	12.51	3	Horizontal	292	2.65	-	28.58	2.89	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

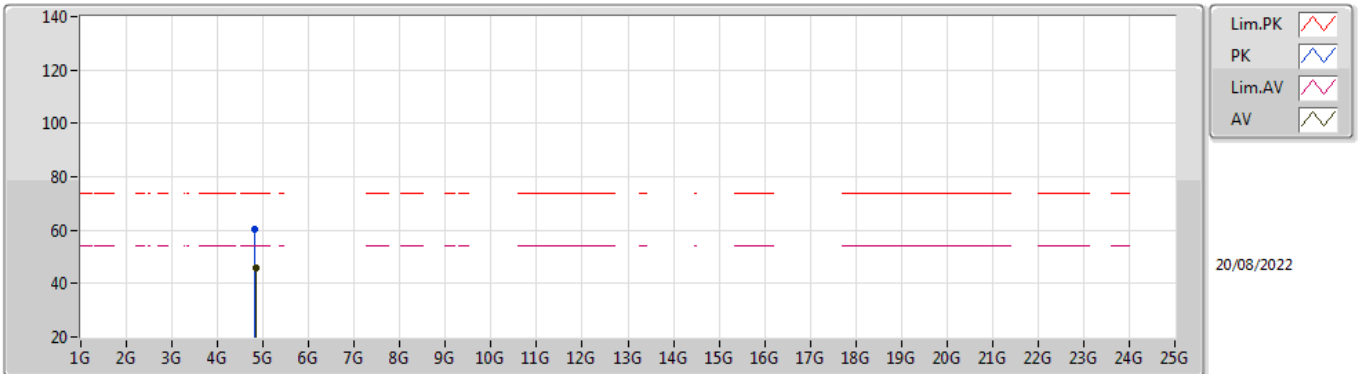


EUT Y_4TX
Setting 22.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82982G	55.21	74.00	-18.79	47.93	3	Vertical	78	2.52	-	32.98	5.10	30.80
AV	4.82982G	41.15	54.00	-12.85	33.88	3	Vertical	78	2.52	-	32.97	5.10	30.80

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

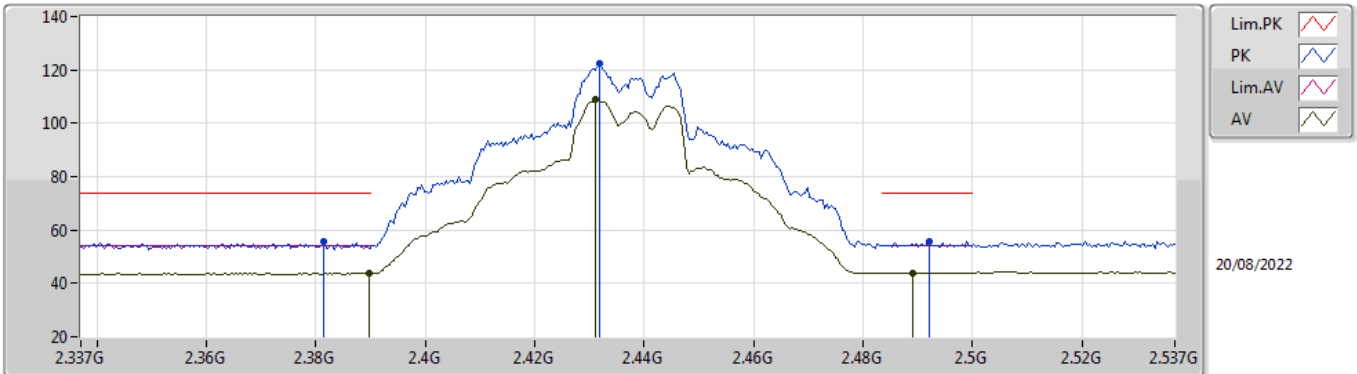


EUT Y_4TX
Setting 22.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8093G	60.23	74.00	-13.77	53.08	3	Horizontal	154	1.61	-	32.86	5.10	30.81	
AV	4.8297G	45.63	54.00	-8.37	38.35	3	Horizontal	154	1.61	-	32.98	5.10	30.80	

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

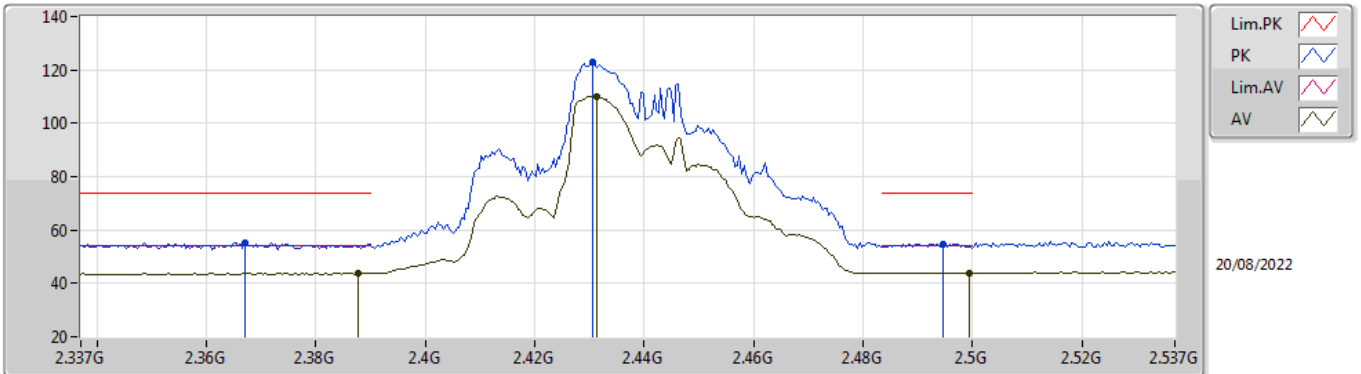


EUT X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3814G	55.63	74.00	-18.37	24.48	3	Vertical	261	1.33	-	28.36	2.79	-	
AV	2.3898G	43.67	54.00	-10.33	12.50	3	Vertical	261	1.33	-	28.38	2.79	-	
PK	2.4318G	122.51	Inf	-Inf	91.28	3	Vertical	261	1.33	-	28.40	2.83	-	
AV	2.431G	108.88	Inf	-Inf	77.65	3	Vertical	261	1.33	-	28.40	2.83	-	
PK	2.4922G	55.68	74.00	-18.32	24.22	3	Vertical	261	1.33	-	28.57	2.89	-	
AV	2.489G	44.00	54.00	-10.00	12.55	3	Vertical	261	1.33	-	28.56	2.89	-	

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

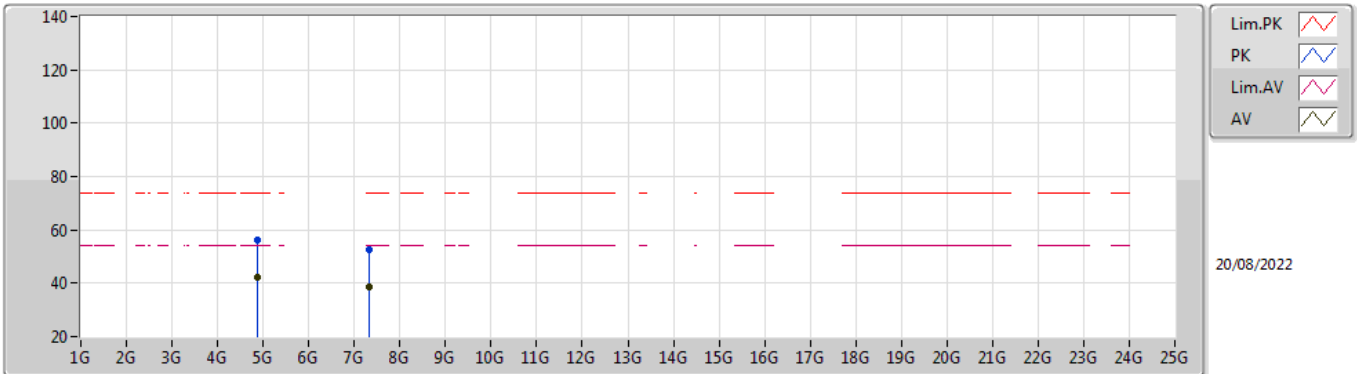


EUT_X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.367G	55.23	74.00	-18.77	24.12	3	Horizontal	288	2.60	-	28.33	2.78	-
AV	2.3878G	43.66	54.00	-10.34	12.49	3	Horizontal	288	2.60	-	28.38	2.79	-
PK	2.4306G	123.08	Inf	-Inf	91.85	3	Horizontal	288	2.60	-	28.40	2.83	-
AV	2.4314G	110.15	Inf	-Inf	78.92	3	Horizontal	288	2.60	-	28.40	2.83	-
PK	2.4946G	54.89	74.00	-19.11	23.42	3	Horizontal	288	2.60	-	28.58	2.89	-
AV	2.4994G	44.05	54.00	-9.95	12.55	3	Horizontal	288	2.60	-	28.60	2.90	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

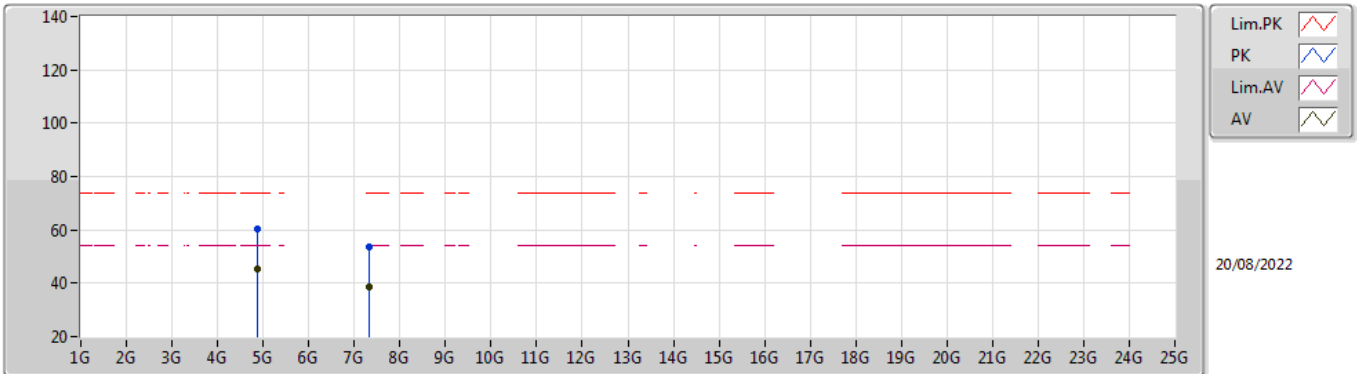


EUT_Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87886G	55.97	74.00	-18.03	48.49	3	Vertical	142	2.03	-	33.16	5.10	30.78
AV	4.8794G	42.10	54.00	-11.90	34.62	3	Vertical	142	2.03	-	33.16	5.10	30.78
PK	7.3146G	52.40	74.00	-21.60	41.73	3	Vertical	143	1.88	-	36.43	6.16	31.92
AV	7.31292G	38.76	54.00	-15.24	28.09	3	Vertical	143	1.88	-	36.43	6.16	31.92

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

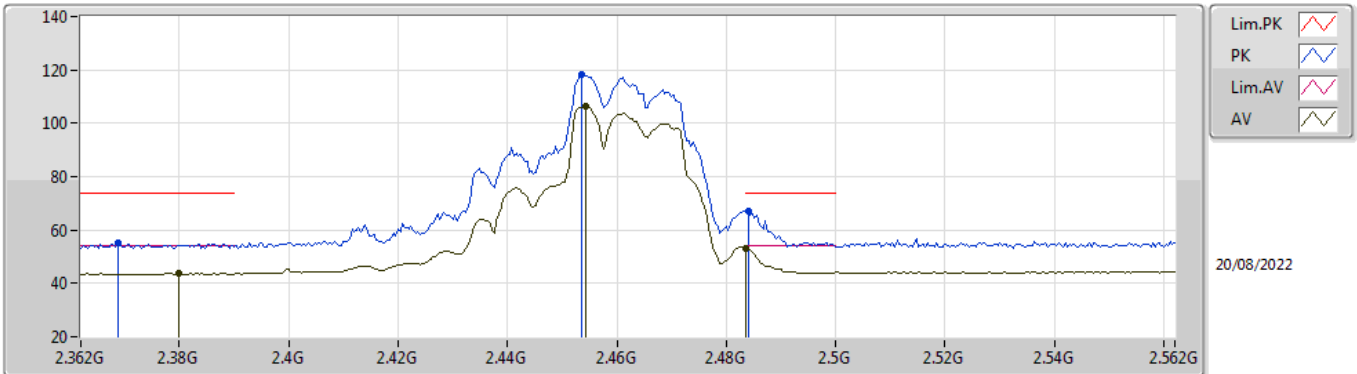


EUT_Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88522G	60.27	74.00	-13.73	52.78	3	Horizontal	127	1.80	-	33.17	5.10	30.78
AV	4.8854G	45.36	54.00	-8.64	37.87	3	Horizontal	127	1.80	-	33.17	5.10	30.78
PK	7.31046G	53.59	74.00	-20.41	42.93	3	Horizontal	244	1.82	-	36.42	6.16	31.92
AV	7.3107G	38.74	54.00	-15.26	28.08	3	Horizontal	244	1.82	-	36.42	6.16	31.92

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

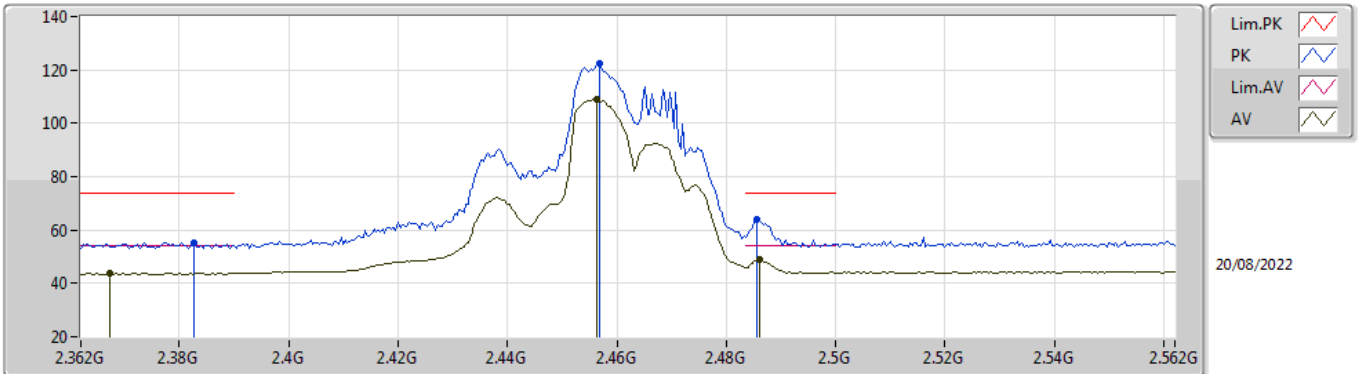


EUT X_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3688G	55.35	74.00	-18.65	24.23	3	Vertical	168	2.16	-	28.34	2.78	-
AV	2.38G	43.61	54.00	-10.39	12.46	3	Vertical	168	2.16	-	28.36	2.79	-
PK	2.4536G	118.52	Inf	-Inf	87.26	3	Vertical	168	2.16	-	28.41	2.85	-
AV	2.4544G	106.20	Inf	-Inf	74.93	3	Vertical	168	2.16	-	28.42	2.85	-
PK	2.484G	66.93	74.00	-7.07	35.51	3	Vertical	168	2.16	-	28.54	2.88	-
AV	2.4835G	53.07	54.00	-0.93	21.66	3	Vertical	168	2.16	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

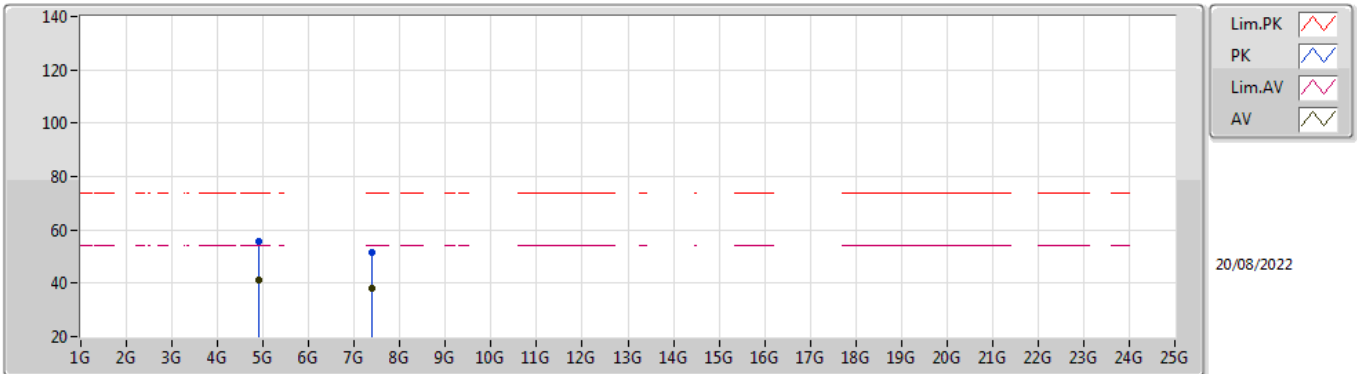


EUT_X_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3828G	55.37	74.00	-18.63	24.21	3	Horizontal	289	2.56	-	28.37	2.79	-
AV	2.3672G	43.65	54.00	-10.35	12.54	3	Horizontal	289	2.56	-	28.33	2.78	-
PK	2.4568G	122.67	Inf	-Inf	91.38	3	Horizontal	289	2.56	-	28.43	2.86	-
AV	2.4564G	108.84	Inf	-Inf	77.55	3	Horizontal	289	2.56	-	28.43	2.86	-
PK	2.4856G	64.04	74.00	-9.96	32.61	3	Horizontal	289	2.56	-	28.54	2.89	-
AV	2.486G	48.73	54.00	-5.27	17.30	3	Horizontal	289	2.56	-	28.54	2.89	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

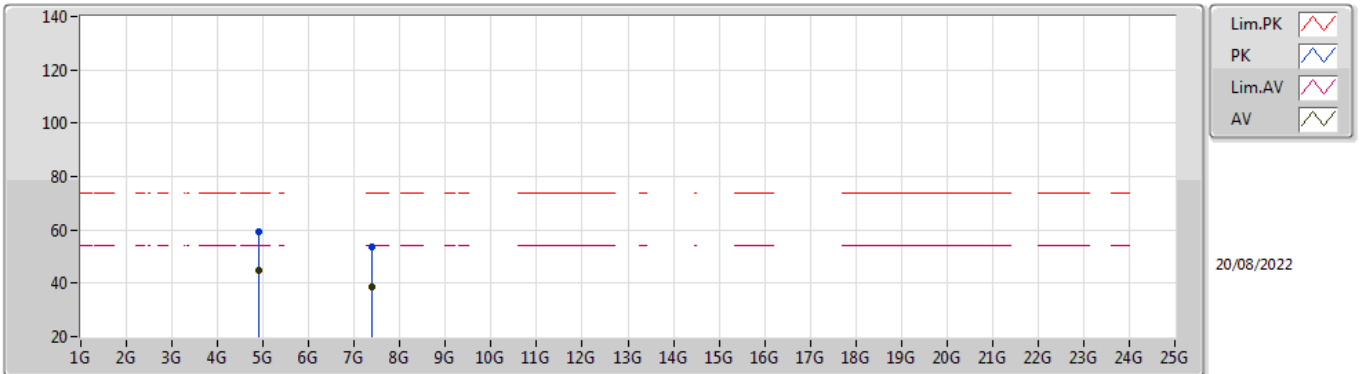


EUT Y_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91086G	55.79	74.00	-18.21	48.24	3	Vertical	152	3.00	-	33.22	5.10	30.77
AV	4.91086G	41.09	54.00	-12.91	33.54	3	Vertical	152	3.00	-	33.22	5.10	30.77
PK	7.39482G	51.76	74.00	-22.24	41.03	3	Vertical	164	1.80	-	36.50	6.20	31.97
AV	7.39362G	37.90	54.00	-16.10	27.17	3	Vertical	164	1.80	-	36.50	6.20	31.97

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

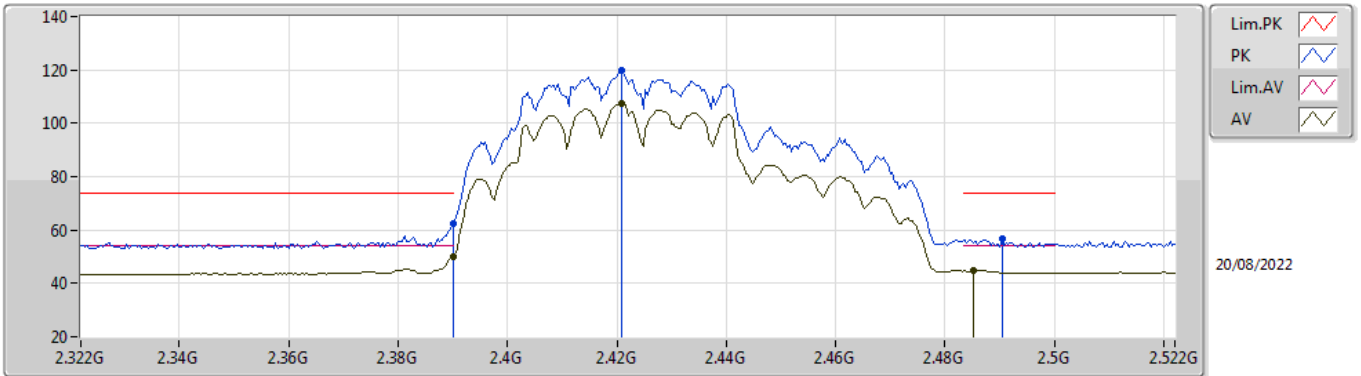


EUT Y_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9107G	59.21	74.00	-14.79	51.66	3	Horizontal	152	1.58	-	33.22	5.10	30.77
AV	4.9107G	44.73	54.00	-9.27	37.18	3	Horizontal	152	1.58	-	33.22	5.10	30.77
PK	7.39524G	53.56	74.00	-20.44	42.83	3	Horizontal	176	1.63	-	36.50	6.20	31.97
AV	7.39524G	38.78	54.00	-15.22	28.05	3	Horizontal	176	1.63	-	36.50	6.20	31.97

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

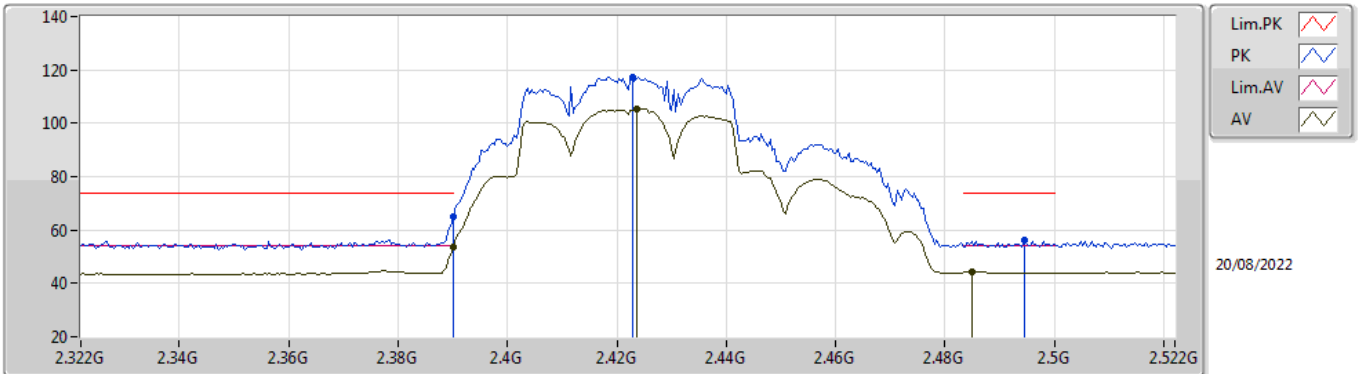


EUT X_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	62.28	74.00	-11.72	31.11	3	Vertical	200	1.31	-	28.38	2.79	-
AV	2.39G	50.07	54.00	-3.93	18.90	3	Vertical	200	1.31	-	28.38	2.79	-
PK	2.4208G	119.79	Inf	-Inf	88.57	3	Vertical	200	1.31	-	28.40	2.82	-
AV	2.4208G	107.42	Inf	-Inf	76.20	3	Vertical	200	1.31	-	28.40	2.82	-
PK	2.4904G	56.65	74.00	-17.35	25.20	3	Vertical	200	1.31	-	28.56	2.89	-
AV	2.4852G	44.81	54.00	-9.19	13.38	3	Vertical	200	1.31	-	28.54	2.89	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

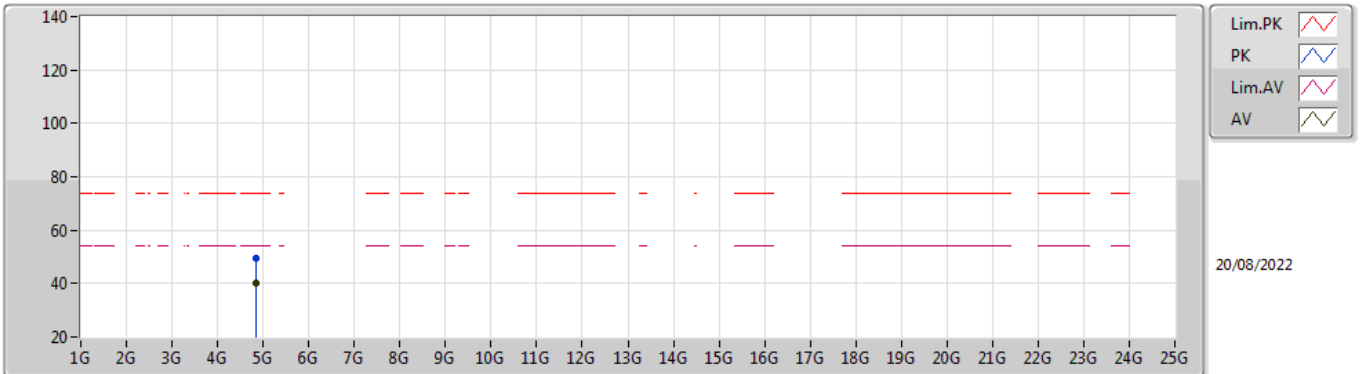


EUT X_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	65.10	74.00	-8.90	33.93	3	Horizontal	253	1.32	-	28.38	2.79	-	
AV	2.39G	53.52	54.00	-0.48	22.35	3	Horizontal	253	1.32	-	28.38	2.79	-	
PK	2.4228G	117.13	Inf	-Inf	85.91	3	Horizontal	253	1.32	-	28.40	2.82	-	
AV	2.4236G	105.46	Inf	-Inf	74.24	3	Horizontal	253	1.32	-	28.40	2.82	-	
PK	2.4944G	56.10	74.00	-17.90	24.63	3	Horizontal	253	1.32	-	28.58	2.89	-	
AV	2.4848G	44.32	54.00	-9.68	12.90	3	Horizontal	253	1.32	-	28.54	2.88	-	

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

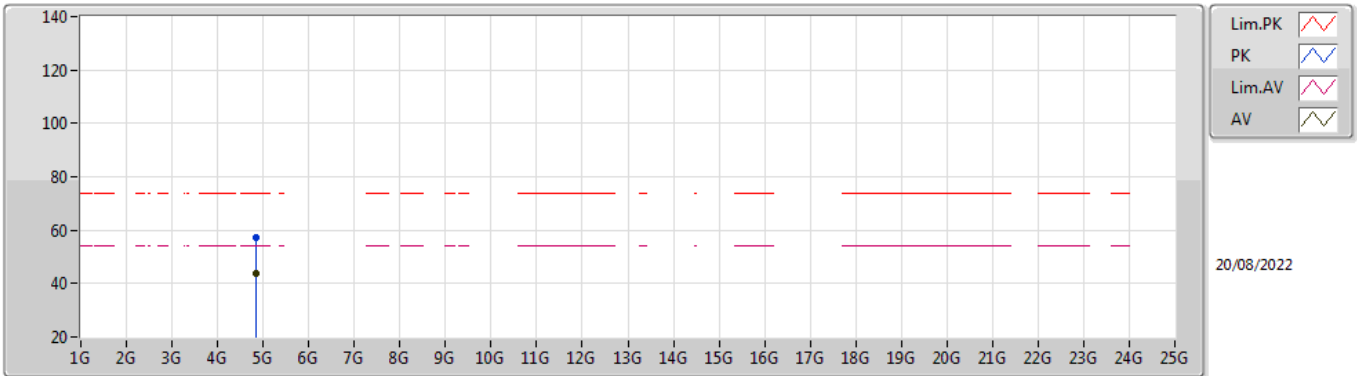


EUT Y_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84376G	49.25	74.00	-24.75	41.89	3	Vertical	178	3.00	-	33.06	5.10	30.80
AV	4.8437G	40.20	54.00	-13.80	32.84	3	Vertical	178	3.00	-	33.06	5.10	30.80

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

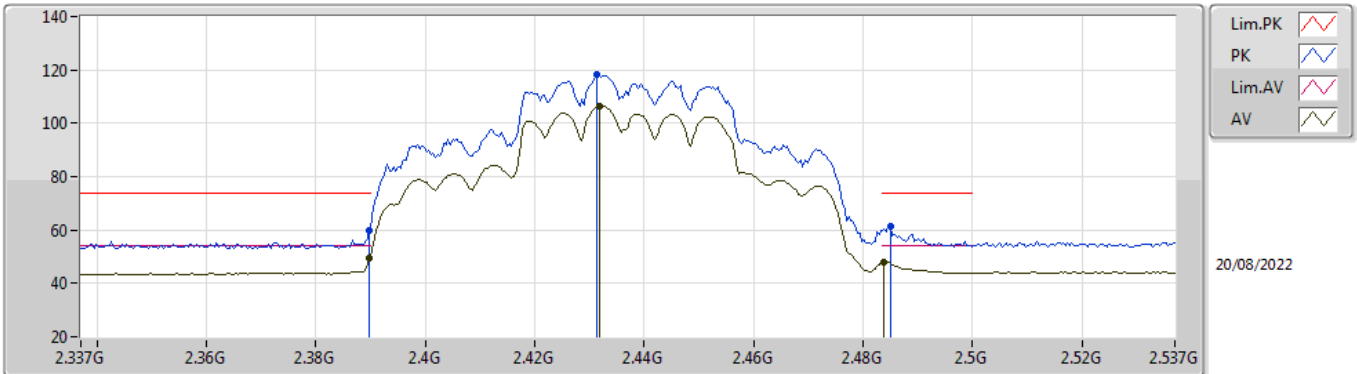


EUT Y_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83808G	57.16	74.00	-16.84	49.83	3	Horizontal	128	1.80	-	33.03	5.10	30.80
AV	4.83764G	43.60	54.00	-10.40	36.27	3	Horizontal	128	1.80	-	33.03	5.10	30.80

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

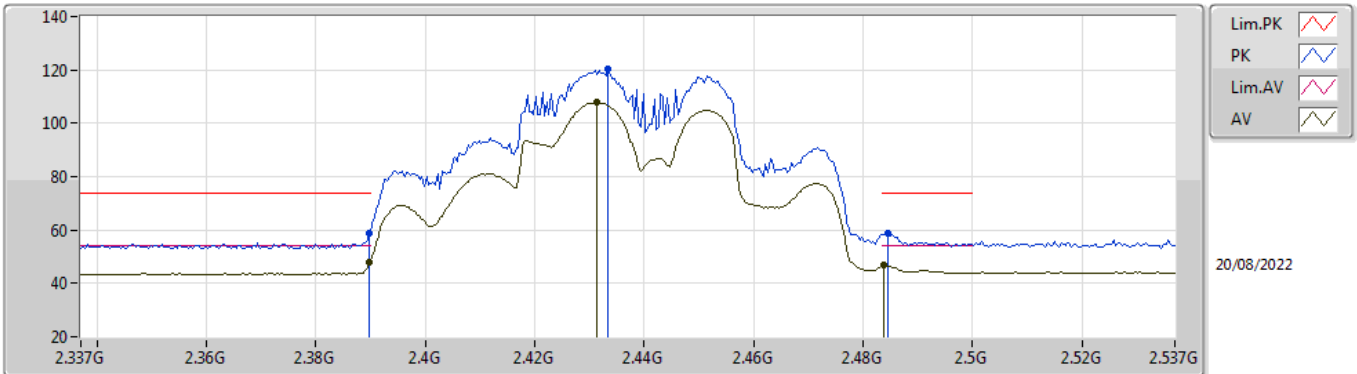


EUT X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3898G	59.93	74.00	-14.07	28.76	3	Vertical	266	1.32	-	28.38	2.79	-	
AV	2.3898G	49.55	54.00	-4.45	18.38	3	Vertical	266	1.32	-	28.38	2.79	-	
PK	2.4314G	118.14	Inf	-Inf	86.91	3	Vertical	266	1.32	-	28.40	2.83	-	
AV	2.4318G	106.52	Inf	-Inf	75.29	3	Vertical	266	1.32	-	28.40	2.83	-	
PK	2.485G	61.37	74.00	-12.63	29.94	3	Vertical	266	1.32	-	28.54	2.89	-	
AV	2.4838G	47.76	54.00	-6.24	16.34	3	Vertical	266	1.32	-	28.54	2.88	-	

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

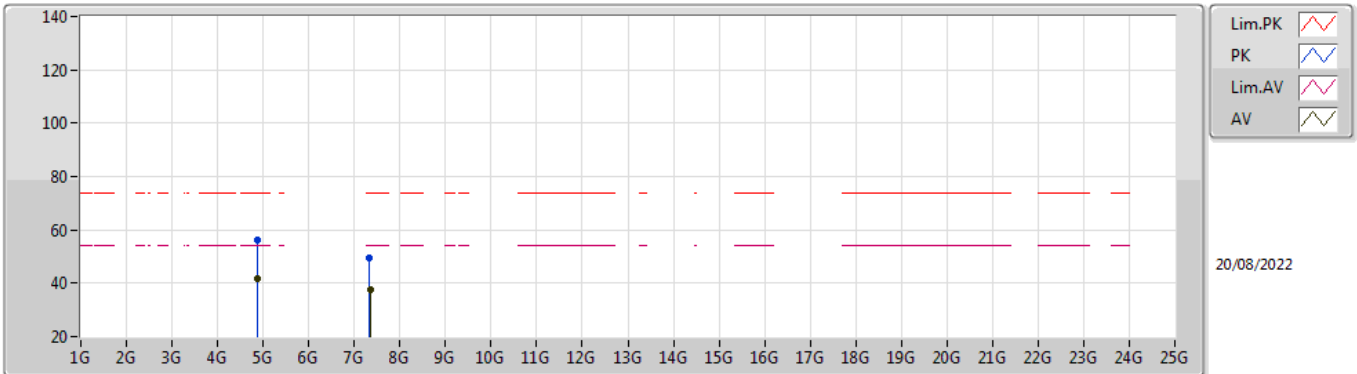


EUT_X_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	58.94	74.00	-15.06	27.77	3	Horizontal	290	2.60	-	28.38	2.79	-
AV	2.3898G	47.80	54.00	-6.20	16.63	3	Horizontal	290	2.60	-	28.38	2.79	-
PK	2.4334G	120.20	Inf	-Inf	88.97	3	Horizontal	290	2.60	-	28.40	2.83	-
AV	2.4314G	107.72	Inf	-Inf	76.49	3	Horizontal	290	2.60	-	28.40	2.83	-
PK	2.4846G	58.97	74.00	-15.03	27.55	3	Horizontal	290	2.60	-	28.54	2.88	-
AV	2.4838G	46.92	54.00	-7.08	15.50	3	Horizontal	290	2.60	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

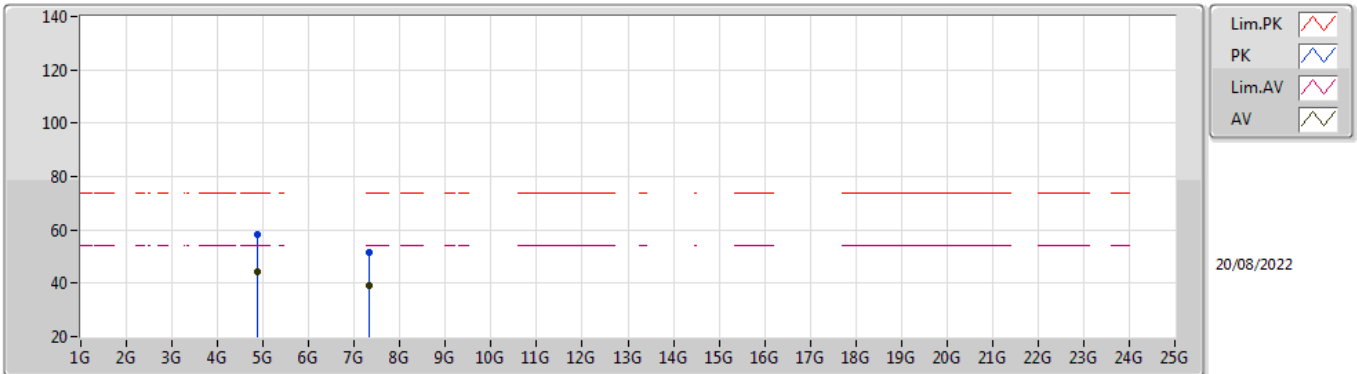


EUT_Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8784G	56.34	74.00	-17.66	48.86	3	Vertical	143	2.01	-	33.16	5.10	30.78
AV	4.8792G	41.97	54.00	-12.03	34.49	3	Vertical	143	2.01	-	33.16	5.10	30.78
PK	7.3112G	49.59	74.00	-24.41	38.93	3	Vertical	20	2.47	-	36.42	6.16	31.92
AV	7.3436G	37.58	54.00	-16.42	26.86	3	Vertical	20	2.47	-	36.49	6.17	31.94

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

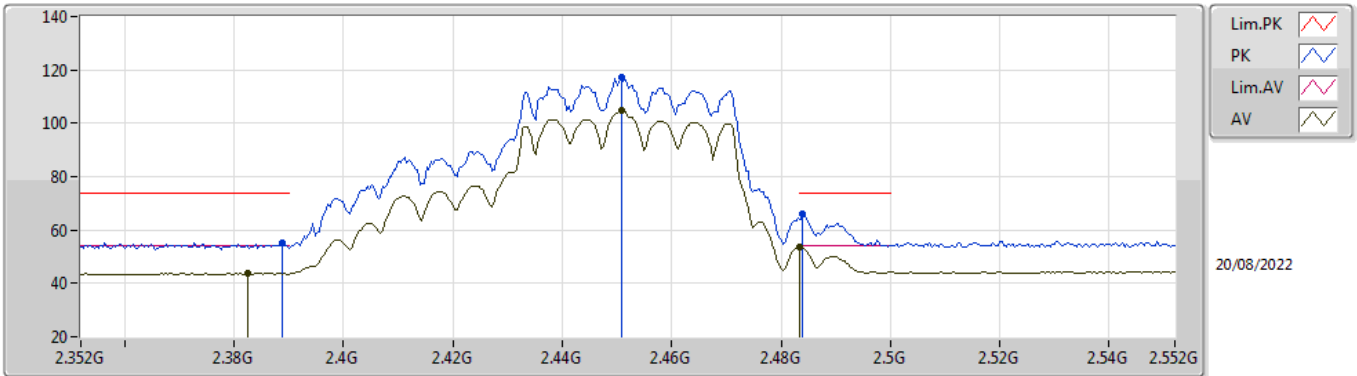


EUT_Y_4TX
Setting 24
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8856G	58.04	74.00	-15.96	50.55	3	Horizontal	126	1.80	-	33.17	5.10	30.78
AV	4.8788G	44.44	54.00	-9.56	36.96	3	Horizontal	126	1.80	-	33.16	5.10	30.78
PK	7.3278G	51.74	74.00	-22.26	41.05	3	Horizontal	182	2.00	-	36.46	6.16	31.93
AV	7.3114G	39.02	54.00	-14.98	28.36	3	Horizontal	182	2.00	-	36.42	6.16	31.92

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

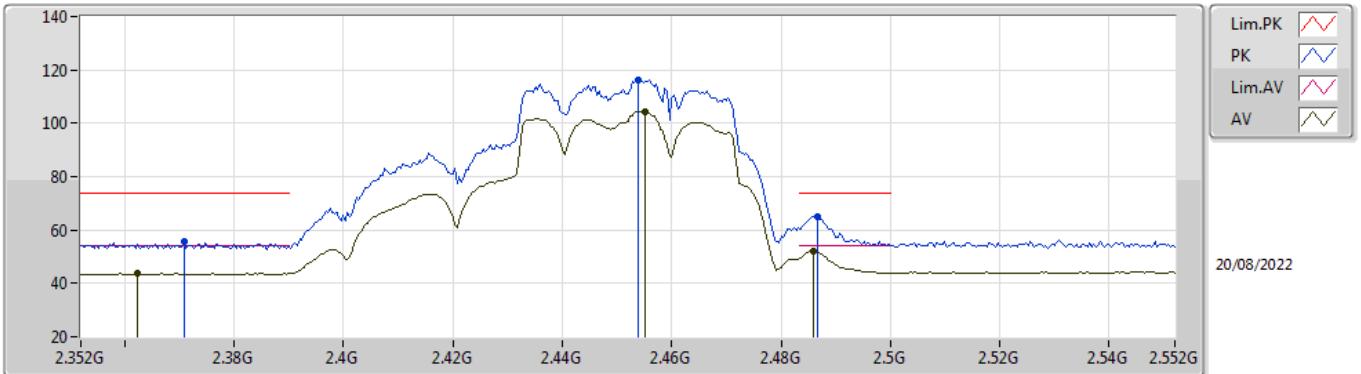


EUT_X_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	55.42	74.00	-18.58	24.25	3	Vertical	199	1.39	-	28.38	2.79	-
AV	2.3824G	43.65	54.00	-10.35	12.50	3	Vertical	199	1.39	-	28.36	2.79	-
PK	2.4508G	117.37	Inf	-Inf	86.12	3	Vertical	199	1.39	-	28.40	2.85	-
AV	2.4508G	104.73	Inf	-Inf	73.48	3	Vertical	199	1.39	-	28.40	2.85	-
PK	2.484G	65.81	74.00	-8.19	34.39	3	Vertical	199	1.39	-	28.54	2.88	-
AV	2.4835G	53.61	54.00	-0.39	22.20	3	Vertical	199	1.39	-	28.53	2.88	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

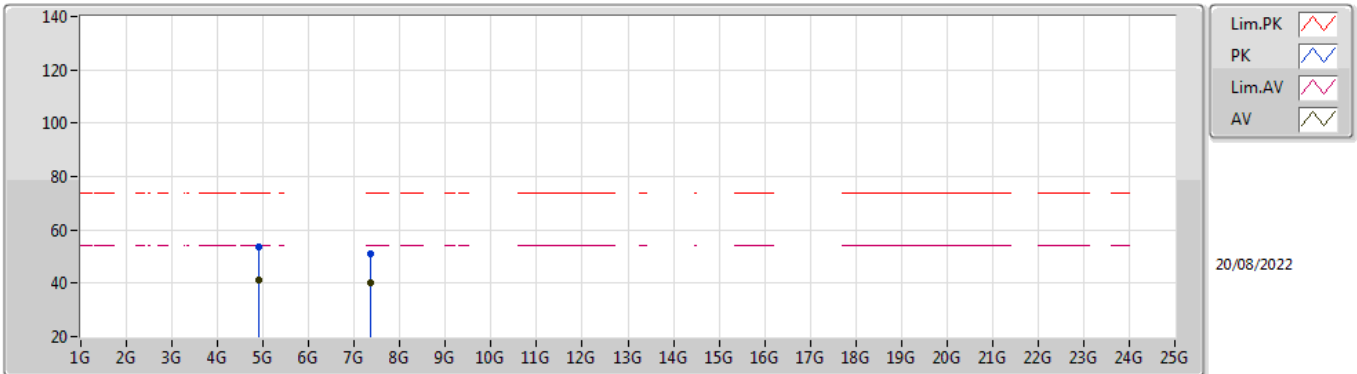


EUT_X_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3708G	55.44	74.00	-18.56	24.31	3	Horizontal	242	1.07	-	28.34	2.79	-
AV	2.3624G	43.61	54.00	-10.39	12.51	3	Horizontal	242	1.07	-	28.32	2.78	-
PK	2.454G	116.20	Inf	-Inf	84.93	3	Horizontal	242	1.07	-	28.42	2.85	-
AV	2.4552G	104.38	Inf	-Inf	73.10	3	Horizontal	242	1.07	-	28.42	2.86	-
PK	2.4868G	65.10	74.00	-8.90	33.66	3	Horizontal	242	1.07	-	28.55	2.89	-
AV	2.486G	52.12	54.00	-1.88	20.69	3	Horizontal	242	1.07	-	28.54	2.89	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

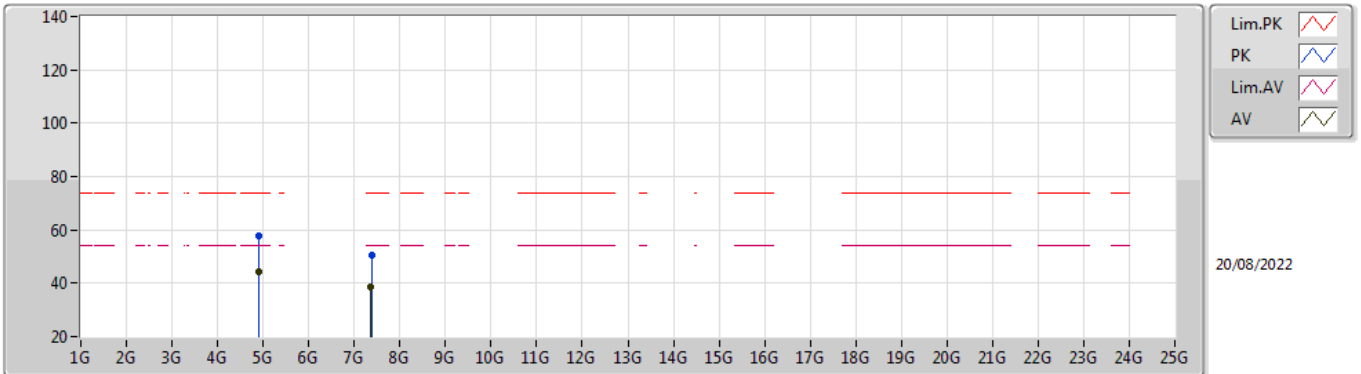


EUT Y_4TX
Setting 23.5
02-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9112G	53.78	74.00	-20.22	46.23	3	Vertical	154	3.00	-	33.22	5.10	30.77
AV	4.9092G	41.10	54.00	-12.90	33.55	3	Vertical	154	3.00	-	33.22	5.10	30.77
PK	7.3436G	51.06	74.00	-22.94	40.34	3	Vertical	1	2.25	-	36.49	6.17	31.94
AV	7.3436G	40.13	54.00	-13.87	29.41	3	Vertical	1	2.25	-	36.49	6.17	31.94

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX



EUT Y_4TX
Setting 23.5
02-F-E-2

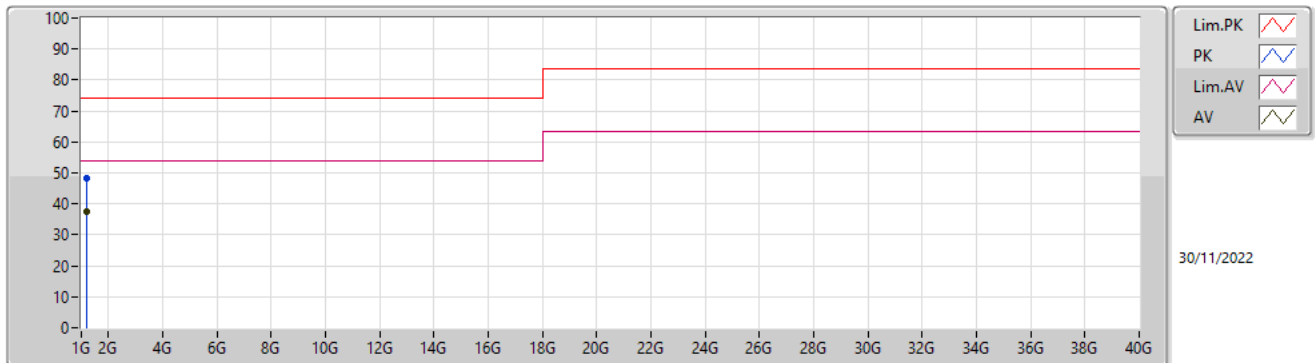
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.896G	57.52	74.00	-16.48	50.00	3	Horizontal	127	1.76	-	33.19	5.10	30.77
AV	4.909G	44.37	54.00	-9.63	36.82	3	Horizontal	127	1.76	-	33.22	5.10	30.77
PK	7.3948G	50.63	74.00	-23.37	39.90	3	Horizontal	30	2.53	-	36.50	6.20	31.97
AV	7.3436G	38.63	54.00	-15.37	27.91	3	Horizontal	30	2.53	-	36.49	6.17	31.94



Summary

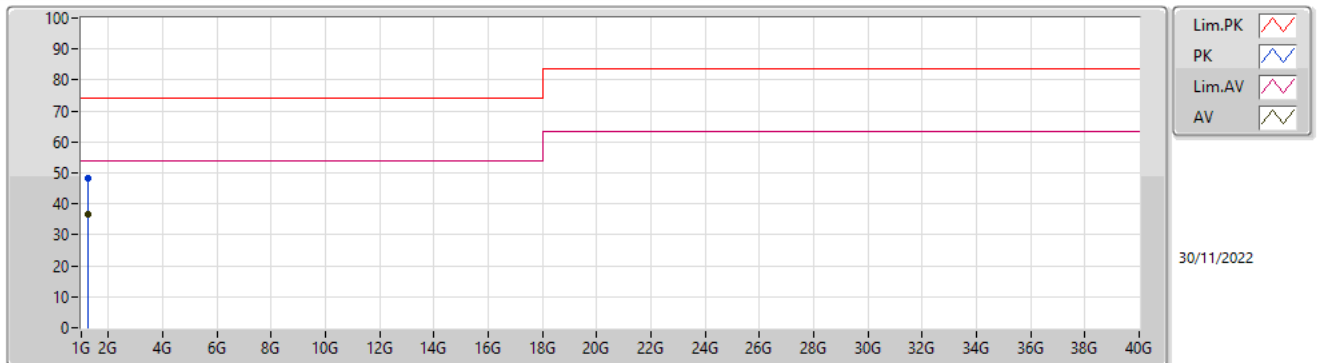
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.19984G	37.63	54.00	-16.37	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.19846G	48.33	74.00	-25.67	-7.79	3	Vertical	252	1.06	-	56.12	25.52	3.10	36.41
AV	1.19984G	37.63	54.00	-16.37	-7.81	3	Vertical	252	1.06	"Worst"	45.44	25.50	3.10	36.41

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.2553G	48.39	74.00	-25.61	-7.94	3	Horizontal	16	1.13	-	56.33	25.32	3.16	36.42
AV	1.2481G	36.55	54.00	-17.45	-7.95	3	Horizontal	16	1.13	"Worst"	44.50	25.31	3.15	36.41