



RADIO TEST REPORT

FCC ID : MSQ-RTBE7900
Equipment : BE3600 Dual Band WiFi 7 Router
Brand Name : ASUS
Model Name : RT-BE58U, TUF-BE3600, RT-BE3600
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 12, 2024, and testing was started from Apr. 23, 2024 and completed on Jun. 21, 2024. 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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History of this test report

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

Page Number : 3 of 36
Issued Date : Jul. 02, 2024
Report Version : 01



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	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen**Report Producer: Muse Chan**



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), be (EHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40), be (EHT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11be EHT20	20	2TX
2.4-2.4835GHz	802.11be EHT20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX
2.4-2.4835GHz	802.11be EHT40	40	2TX
2.4-2.4835GHz	802.11be EHT40-BF	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ EHT20, EHT40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	XINSHENG	SSR-2402018	Dipole Antenna	I-PEX	Note 1
2	XINSHENG	SSR-2402020	Dipole Antenna	I-PEX	
3	XINSHENG	SSR-2402019	Dipole Antenna	I-PEX	
4	XINSHENG	SSR-2402021	Dipole Antenna	I-PEX	

Note 1:

Ant.	Port		Gain (dBi)				
	2.4GHz	5GHz	2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3
1	1	-	3.37	-	-	-	-
2	-	1	-	2.91	3.37	2.99	3.08
3	2	-	3.46	-	-	-	-
4	-	2	-	3.11	3.20	3.09	3.10

Note 2: The above information was declared by manufacturer.

Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

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

Where ;

2.4G G1= 3.37 dBi ;G2= 3.46 dBi ;

5G UNII-1 G1 = 2.91 dBi; G2 = 3.11 dBi;

5G UNII-2A G1 = 3.37dBi; G2 = 3.20dBi;

5G UNII-2C G1 = 2.99 dBi; G2 = 3.09 dBi;

5G UNII-3 G1 = 3.08 dBi; G2 = 3.10 dBi;

2.4G DG = 6.43 dBi

5G UNII-1 DG = 6.02 dBi

5G UNII-2A DG = 6.30dBi

5G UNII-2C DG = 6.05 dB

5G UNII-3 DG =6.10 dBi

Note 4: **For 2.4GHz function:**

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

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

Port 1~2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be (2TX/2RX):

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

Port 1~2 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b_Nss 1,(1D)	0.978	0.1	15.403m	100
802.11g_Nss 1,(6D)	0.991	0.04	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11be EHT20-BF_Nss 1,(M0)	0.969	0.14	3.109m	1k
802.11be EHT40-BF_Nss 1,(M0)	0.982	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax/be in 2.4GHz and n/ac/ax/be in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	For RF Conducted and Radiated (Non-beamforming) mode: accessMTool 3.3.0.7 For Radiated (beamforming) mode: Tera Term VT 4.75			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The model names in the following table are identical to each other in all aspects except for the following table:

EUT	Model Name	Housing design	Way to fix Antenna cable to port	LED spacer thickness	Power button size
1	RT-BE58U	Housing design 1	Note 4	Thick	Small
-	RT-BE3600				
2	TUF-BE3600	Housing design 2		Thin	Big

Note 1: The different model names (RT-BE58U and RT-BE3600) served as strategy for marketing.

Note 2: From the above models, model: RT-BE58U (EUT 1) was selected to test all items, TUF-BE3600 (EUT 2) was selected to test Emissions in Restricted Frequency Bands below 1GHz.

Note 3: The above information was declared by manufacturer.

Note 4:

EUT	Model Name	Way to fix Antenna cable to port
1	RT-BE58U	Ant.1: Fix the antenna cable on the holder in RC1 Ant.2: Fix the antenna cable on the holder in RC5
-	RT-BE3600	Ant.3: Fix the antenna cable on the holder in RC6 Ant.4: Fix the antenna cable on the holder in RC4
2	TUF-BE3600	Ant.1: Fix the antenna cable on the holder of the heatsink Ant.2: Fix the antenna cable on the holder of the heatsink Ant.3: Fix the antenna cable on the holder in RC6 and on the holder of the heatsink Ant.4: Fix the antenna cable on the holder in RC4 and on the holder of the heatsink

1.1.6 Table for EUT Supports Function

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

Note 1: From the above, after evaluating, AP Router was selected to test and record in the report.

Note 2: The USB port on this device supports both storage and WWAN functionality.

Note 3: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date	Remark
RF Conducted	TH01-CB	Jay Lo	24.3-24.9 / 61-68	May 02, 2024~ May 10, 2024	-
Radiated Below 1G	03CH05-CB	Eason Chen	22.7-23.8 / 56-59	Apr. 23, 2024~ Jun. 05, 2024	Mode 1~3
				Jun. 21, 2024	Mode 4
Radiated Above 1G	03CH02-CB		22-23 / 55-58	Apr. 23, 2024~ Jun. 05, 2024	-
	03CH03-CB		21.4-22.5 / 55-58		
	03CH06-CB		21.9-22.4 / 55-58		
AC Conduction	CO01-CB	Joe Chu	23-24 / 58-60	May 31, 2024	-



1.4 Measurement Uncertainty

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

Test Date: Date Before May 28, 2024

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%

Test Date: After May 27, 2024

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11b_Nss1,(1Mbps)_2TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11g_Nss1,(6Mbps)_2TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11be EHT20-BF_Nss1,(MCS0)_2TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
2422MHz
2437MHz
2452MHz

Note:

- ♦ EHT20 / EHT40 covers HT20 / HT40 / VHT20 / VHT40 / HEW20 / HEW40 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / HEW20 / HEW40 is the same or lower than EHT20 / EHT40.
- ♦ The EUT supports non-beamforming and beamforming modes. After evaluating, the beamforming mode was selected to test.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	AP Router / WAN mode_EUT 1-1G LAN1/WAN(WAN) + 2.5G LAN1/WAN(LAN) + LAN2(LAN) + USB(R/W) + Adapter 1
2	AP Router / WAN mode_EUT 1-2.5G LAN1/WAN(WAN) + 1G LAN1/WAN(LAN) + LAN2(LAN) + USB(R/W) + Adapter 1
3	AP Router / WWAN mode_EUT 1-1G LAN1/WAN(LAN) + 2.5G LAN1/WAN(LAN) + LAN2(LAN) + USB(WWAN) + Adapter 1
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	AP Router / WAN mode_EUT 1-1G LAN1/WAN(WAN) + 2.5G LAN1/WAN(LAN) + LAN2(LAN) + USB(R/W) + Adapter 2
For operating mode 4 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
Operating Mode	
1	EUT 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.
1	EUT 1 in Z axis + Adapter 1_WLAN 2.4GHz
2	EUT 1 in Z axis + Adapter 2_WLAN 2.4GHz
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT 1 in Z axis + Adapter 1_WLAN 5GHz
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT 2 in Z axis + Adapter 1_WLAN 2.4GHz
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.
1	EUT 1 in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1_WLAN 2.4GHz + WLAN 5GHz
2	EUT 1_WLAN 2.4GHz + WLAN 5GHz + WWAN
Refer to Sporton Test Report No.: FA412903-01 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under access Mtool 3.3.0.7.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	Frecom	F24L6-120200SPAU	Input: 100-240V, 50/60Hz, 0.6A Output: 12.0V, 2.0A, 24.0W
Adapter 2	KEYU	KA2401A-1202000US	Input: 100-240V, 50/60Hz, 0.65A Max Output: 12V, 2000mA
Other			
RJ-45 cable*1: Non-Shielded, 1.5m			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.5G LAN1/WAN PC	DELL	OPTIPLEX 3010	N/A
B	Flash disk3.0	Transcend	JetFlash-703	N/A
C	1G LAN1/WAN NB	DELL	E6430	N/A
D	1G LAN2 NB	DELL	E6430	N/A
E	2.4G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A
G	1G LAN4 NB	DELL	E6430	N/A

For Radiated (below 1GHz) and Radiated (above 1GHz) <Non-beamforming mode>:

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

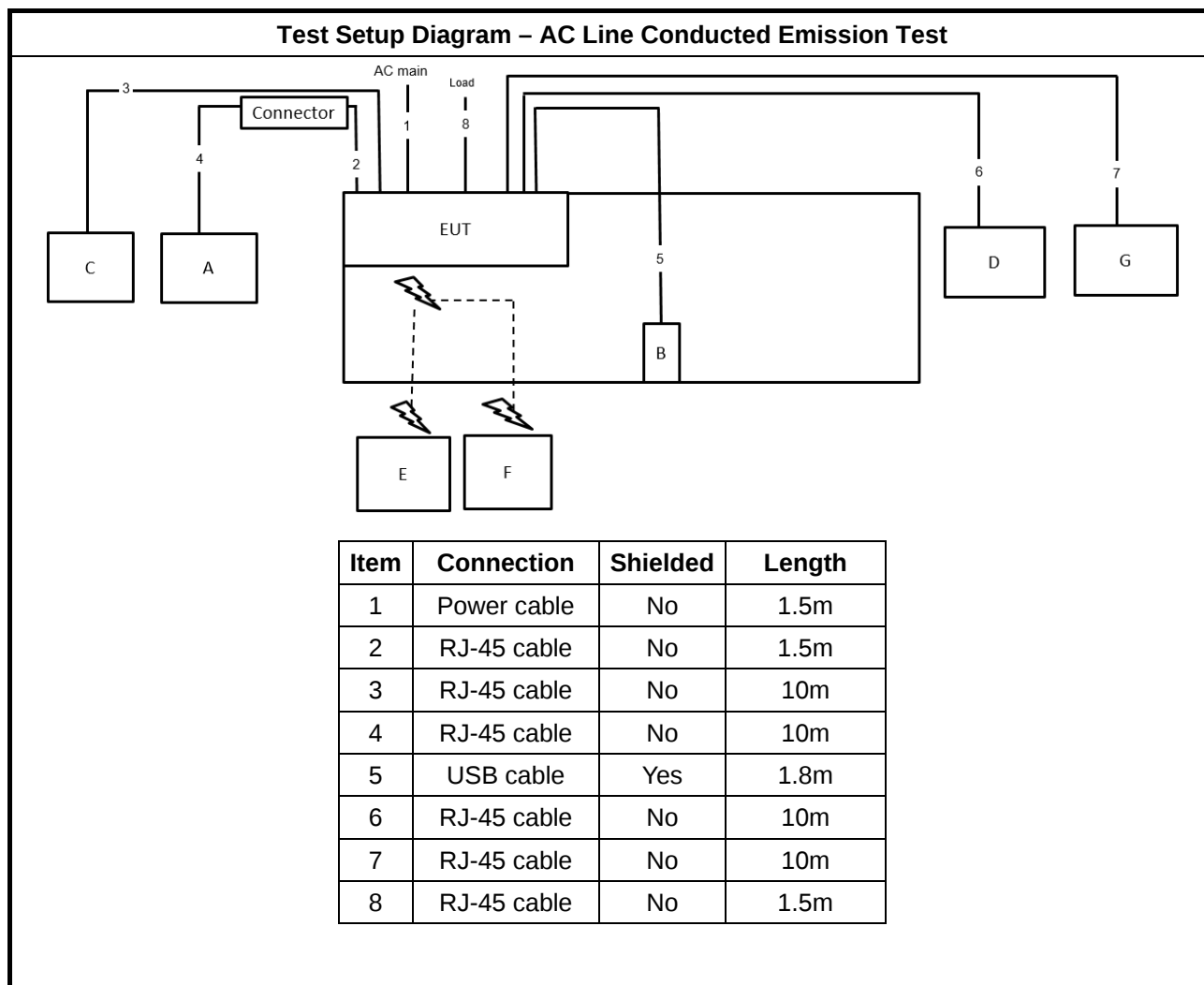
For Radiated (above 1GHz) <Beamforming mode>:

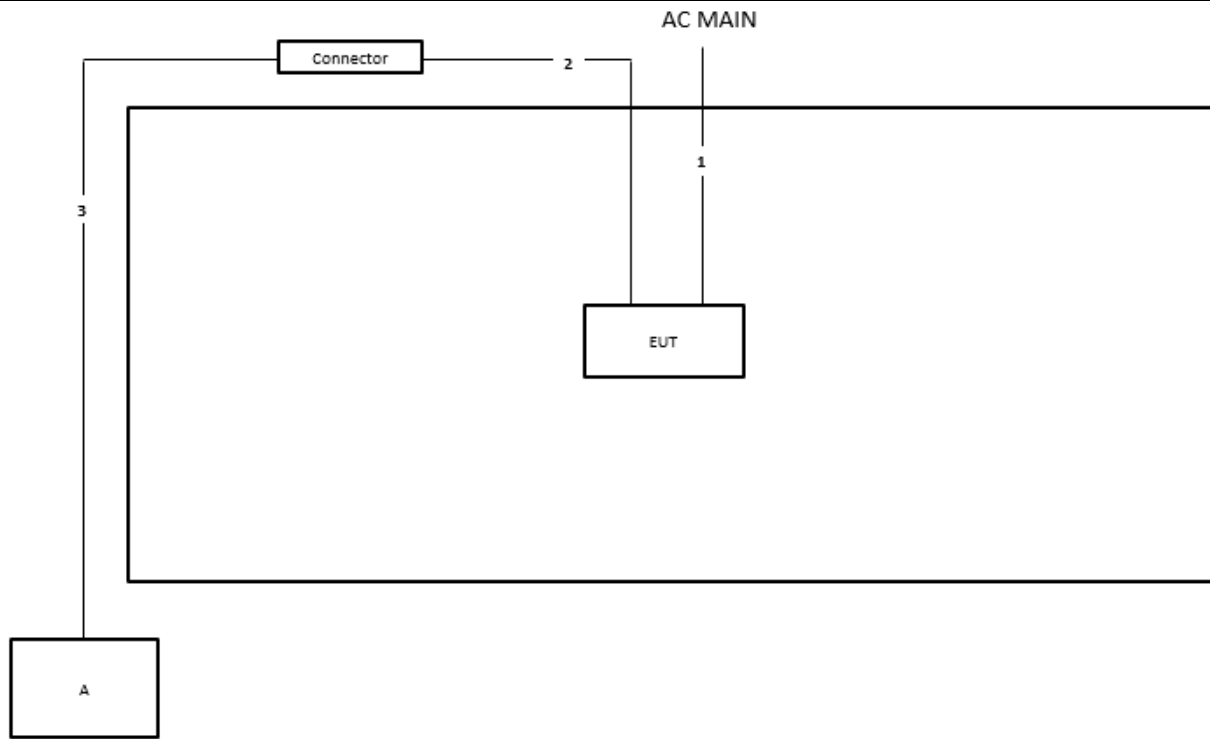
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Client	ASUS	RT-BE88U	N/A

For RF Conducted:

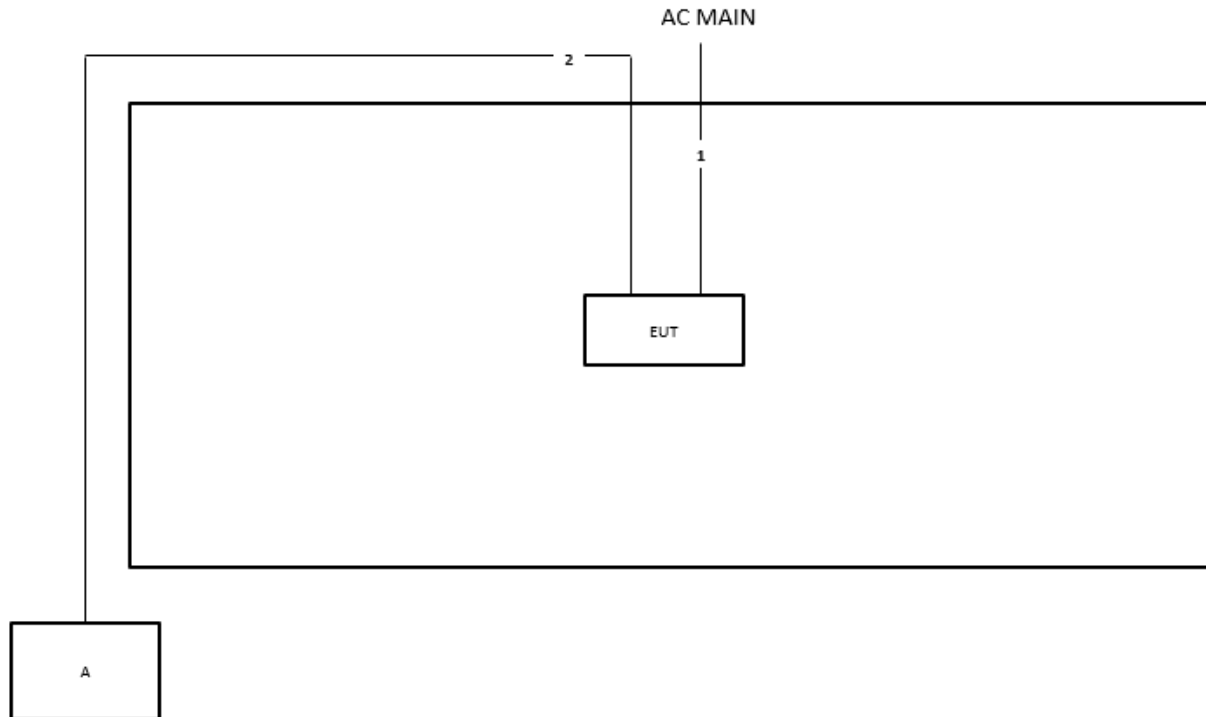
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

2.6 Test Setup Diagram

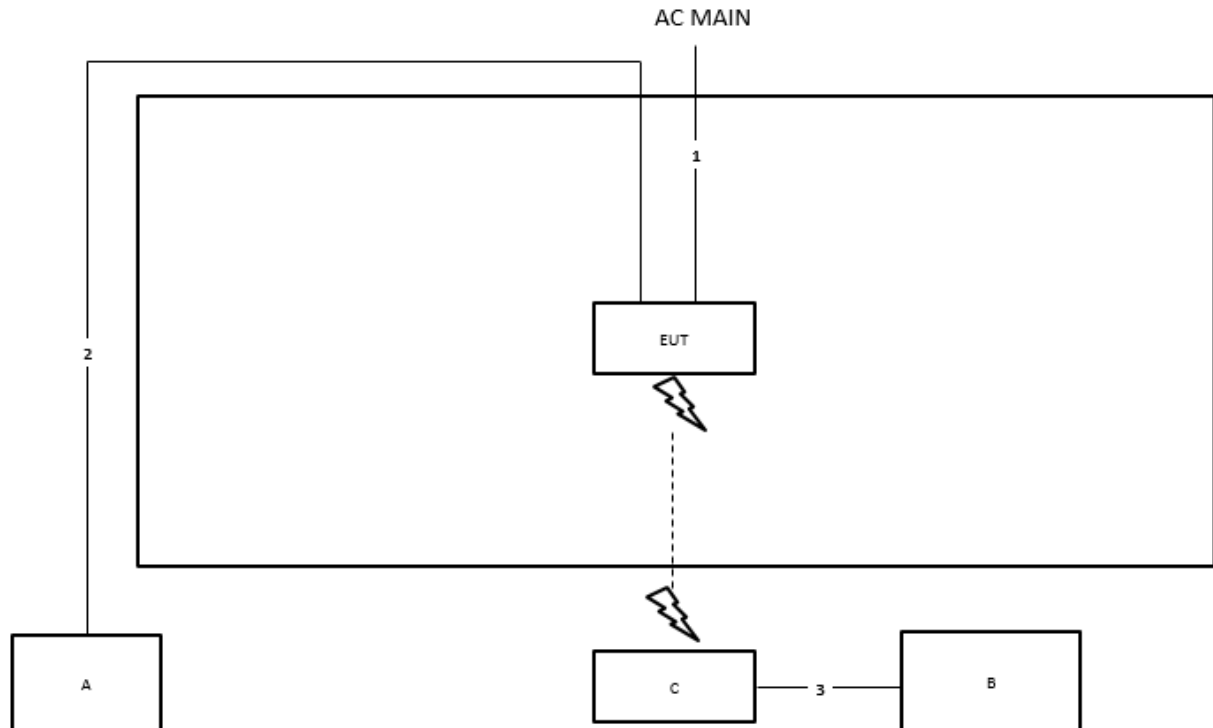


Test Setup Diagram - Radiated Test < 1GHz


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

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


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

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


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

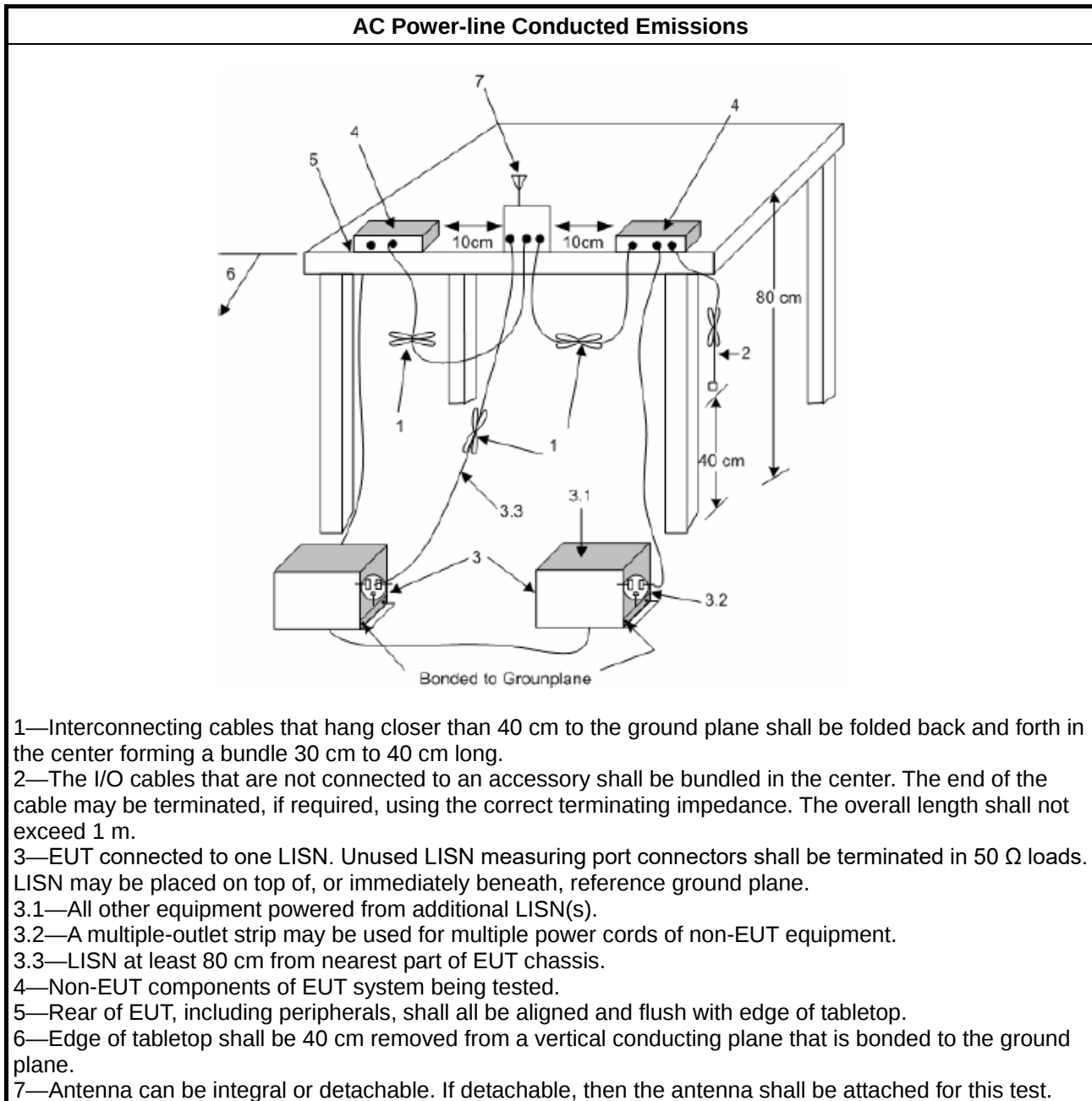
3.1.2 Measuring Instruments

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:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

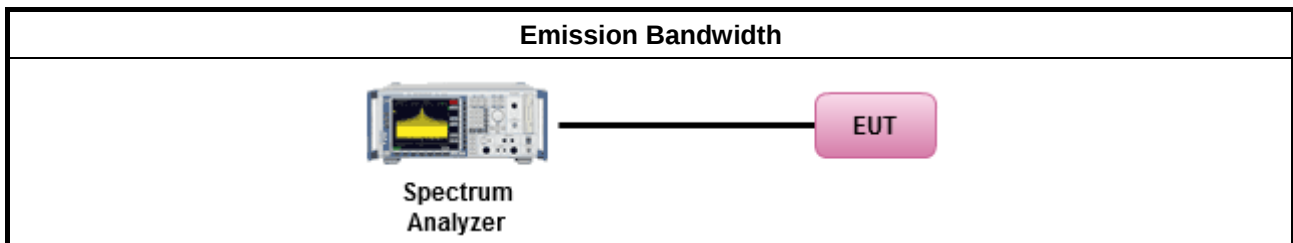
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

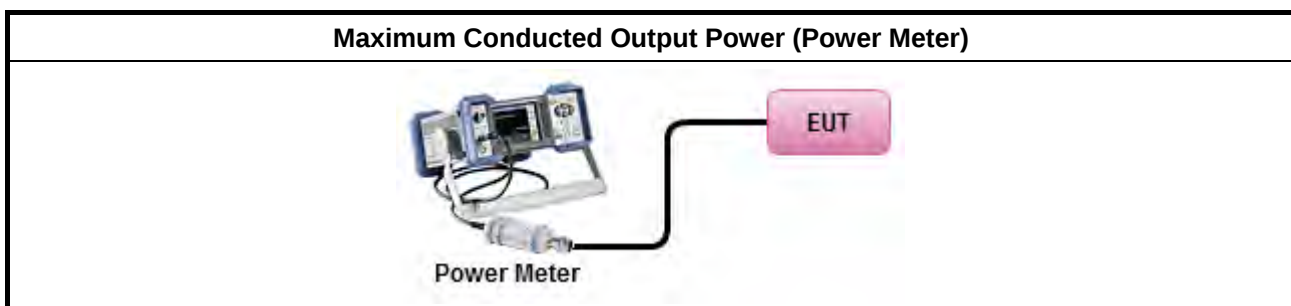
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup





3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

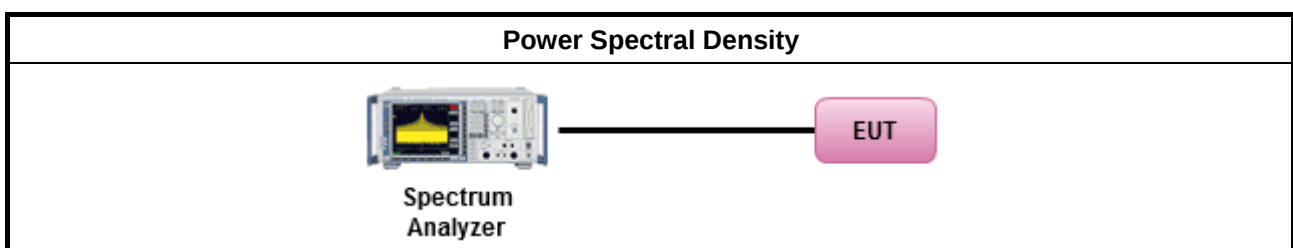
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup





3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

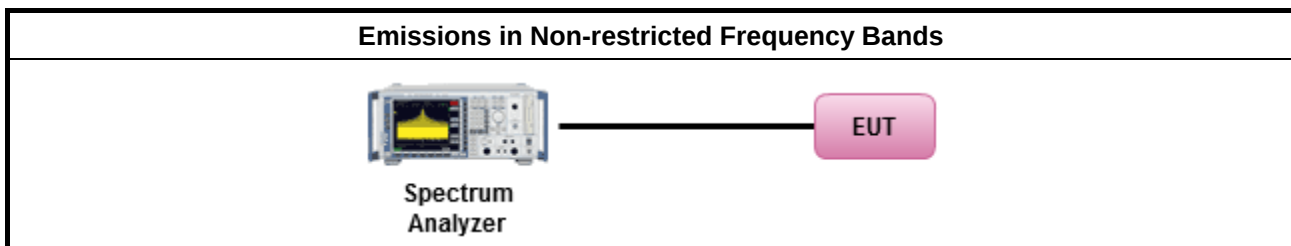
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

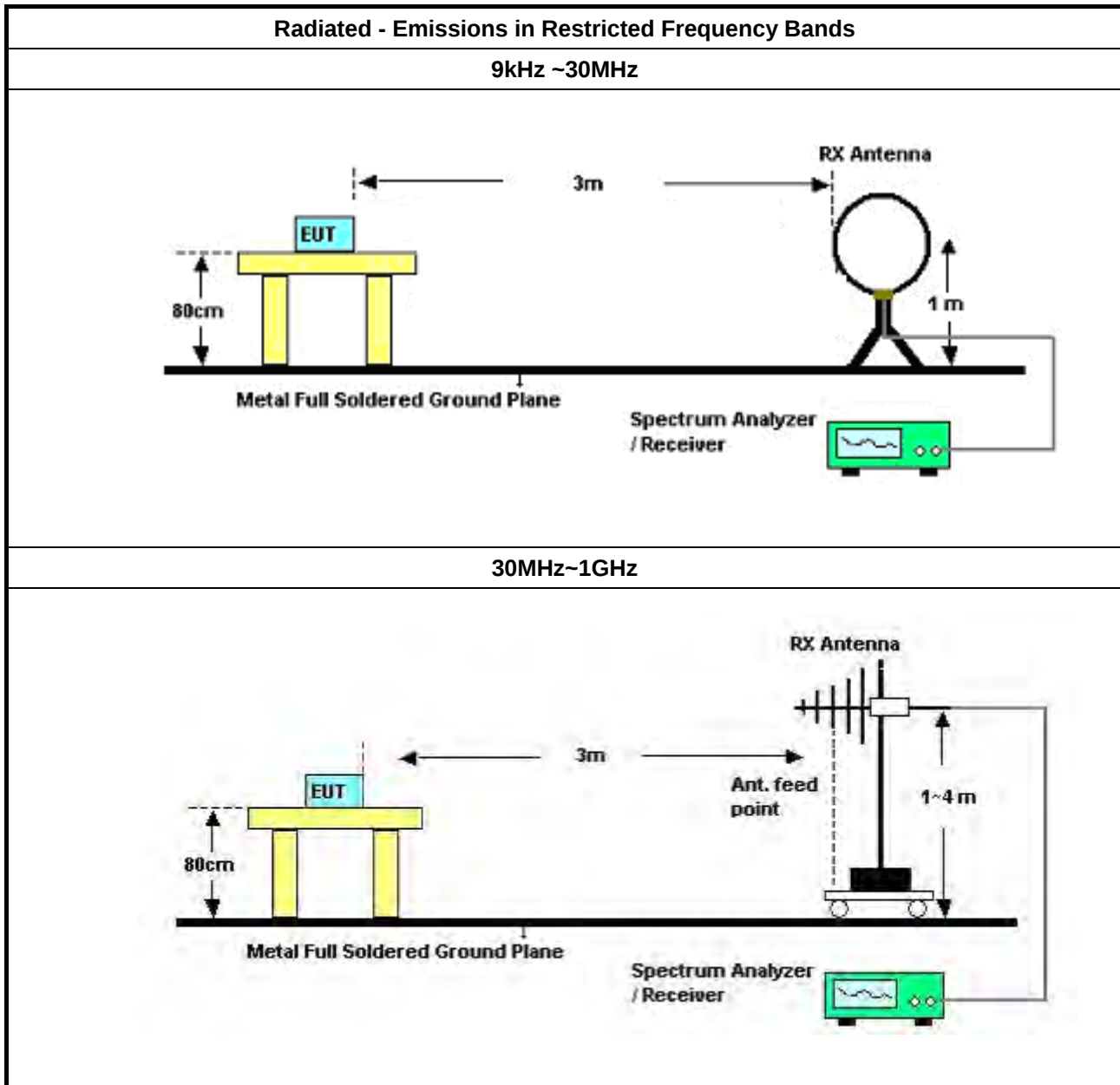
Refer a test equipment and calibration data table in this test report.

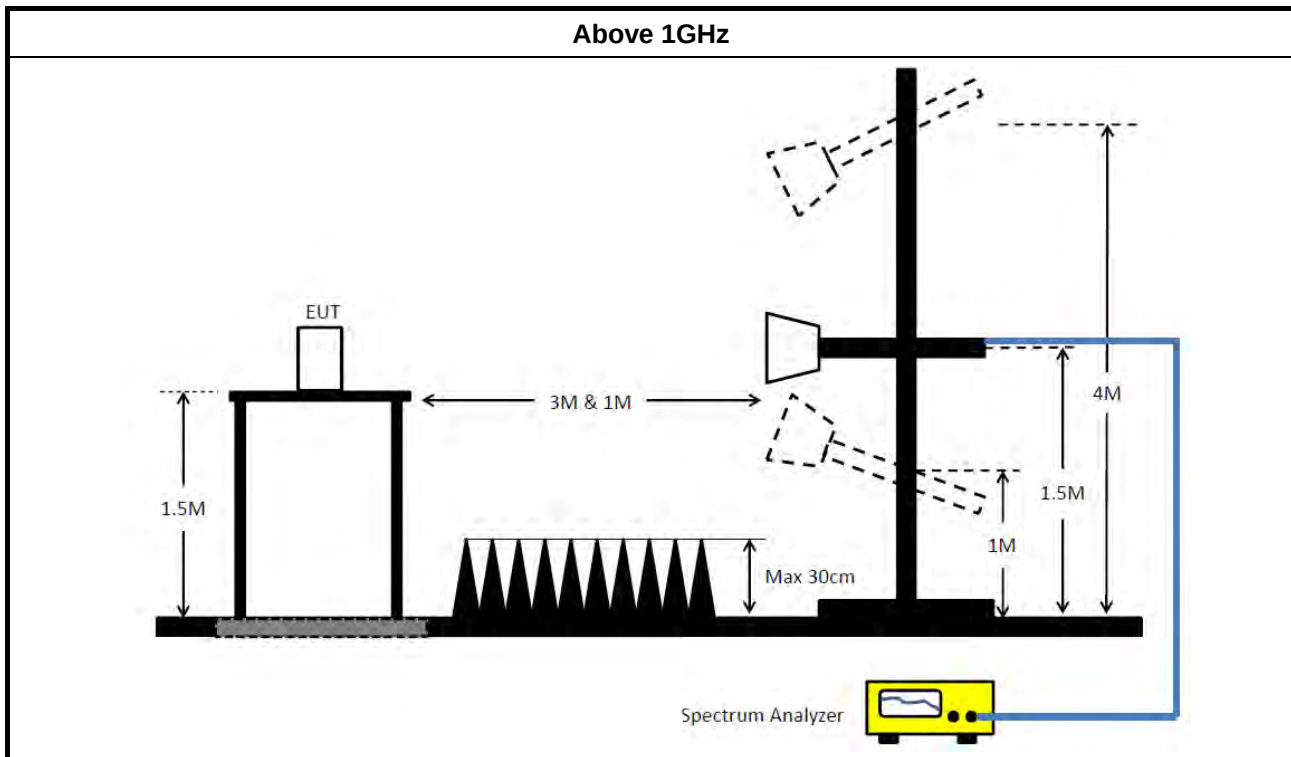


3.6.3 Test Procedures

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

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 17, 2024	Apr. 16, 2025	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102171	9kHz ~ 7GHz	Jul. 26, 2023	Jul. 25, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Dec. 06, 2023	Dec. 05, 2024	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. 24, 2024	Mar. 23, 2025	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 12, 2024	Apr. 11, 2025	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV3044	101536	10kHz ~ 44GHz	Jul. 24, 2023	Jul. 23, 2024	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 03, 2024	May 02, 2025	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 24, 2024	Jan. 23, 2025	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Feb. 29, 2024	Feb. 28, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Feb. 29, 2024	Feb. 28, 2025	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 31, 2023	Jul. 30, 2024	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	May 29, 2023	May 28, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 2025	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 12, 2023	Sep. 11, 2024	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 12, 2023	Sep. 11, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



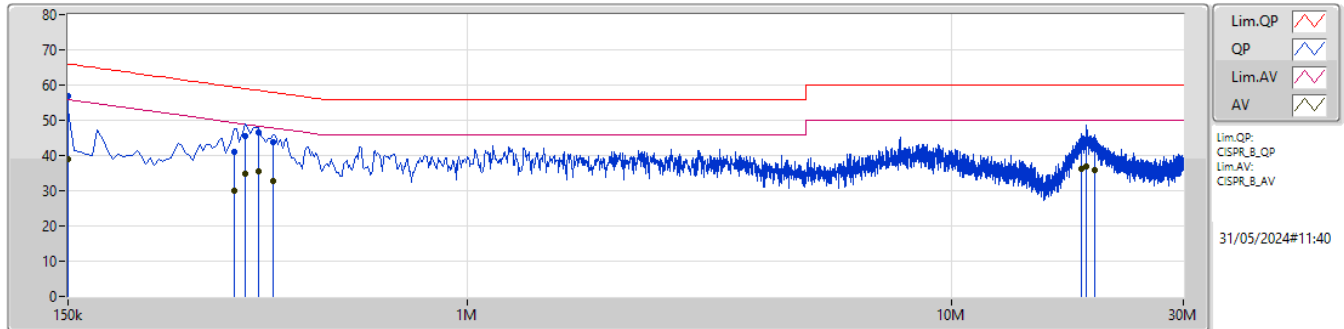
Conducted Emissions at Powerline

Appendix A

Summary

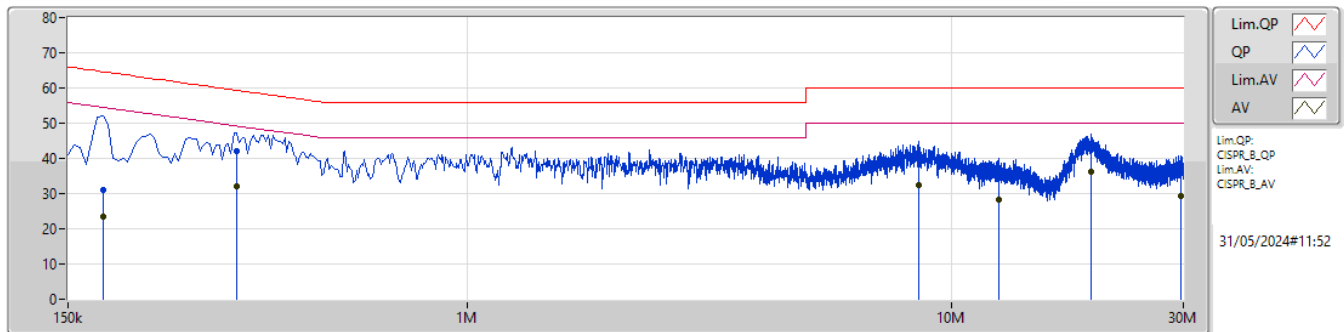
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 4	Pass	QP	150k	56.92	66.00	-9.08	Line

Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	56.92	66.00	-9.08	9.93	Line	"Worst"	46.99	0.04	0.02	9.87						
AV	150k	39.07	56.00	-16.93	9.93	Line	-	29.14	0.04	0.02	9.87						
QP	330k	40.89	59.44	-18.55	9.95	Line	-	30.94	0.05	0.02	9.88						
AV	330k	29.97	49.44	-19.47	9.95	Line	-	20.02	0.05	0.02	9.88						
QP	348k	45.40	59.00	-13.60	9.95	Line	-	35.45	0.05	0.02	9.88						
AV	348k	34.93	49.00	-14.07	9.95	Line	-	24.98	0.05	0.02	9.88						
QP	370.5k	46.38	58.49	-12.11	9.96	Line	-	36.42	0.05	0.02	9.89						
AV	370.5k	35.66	48.49	-12.83	9.96	Line	-	25.70	0.05	0.02	9.89						
QP	397.5k	43.70	57.91	-14.21	9.96	Line	-	33.74	0.05	0.02	9.89						
AV	397.5k	32.79	47.91	-15.12	9.96	Line	-	22.83	0.05	0.02	9.89						
QP	18.479M	42.58	60.00	-17.42	10.52	Line	-	32.06	0.30	0.22	10.00						
AV	18.479M	36.15	50.00	-13.85	10.52	Line	-	25.63	0.30	0.22	10.00						
QP	18.915M	43.38	60.00	-16.62	10.53	Line	-	32.85	0.30	0.22	10.01						
AV	18.915M	37.02	50.00	-12.98	10.53	Line	-	26.49	0.30	0.22	10.01						
QP	19.653M	42.31	60.00	-17.69	10.56	Line	-	31.75	0.31	0.23	10.02						
AV	19.653M	36.03	50.00	-13.97	10.56	Line	-	25.47	0.31	0.23	10.02						

Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	177k	31.20	64.62	-33.42	9.94	Neutral	-	21.26	0.06	0.02	9.86						
AV	177k	23.33	54.62	-31.29	9.94	Neutral	-	13.39	0.06	0.02	9.86						
QP	334.5k	42.02	59.35	-17.33	9.96	Neutral	-	32.06	0.06	0.02	9.88						
AV	334.5k	32.19	49.35	-17.16	9.96	Neutral	-	22.23	0.06	0.02	9.88						
QP	8.525M	40.22	60.00	-19.78	10.27	Neutral	-	29.95	0.22	0.14	9.91						
AV	8.525M	32.40	50.00	-17.60	10.27	Neutral	-	22.13	0.22	0.14	9.91						
QP	12.458M	35.43	60.00	-24.57	10.35	Neutral	-	25.08	0.26	0.16	9.93						
AV	12.458M	28.13	50.00	-21.87	10.35	Neutral	-	17.78	0.26	0.16	9.93						
QP	19.343M	42.48	60.00	-17.52	10.53	Neutral	-	31.95	0.30	0.22	10.01						
AV	19.343M	36.08	50.00	-13.92	10.53	Neutral	"Worst"	25.55	0.30	0.22	10.01						
QP	29.571M	35.97	60.00	-24.03	10.85	Neutral	-	25.12	0.43	0.36	10.06						
AV	29.571M	29.28	50.00	-20.72	10.85	Neutral	-	18.43	0.43	0.36	10.06						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	7.15M	11.934M	11M9G1D	7.05M	9.955M
802.11g_Nss1,(6Mbps)_2TX	16.55M	16.932M	16M9D1D	16M	16.668M
802.11be EHT20-BF_Nss1,(MCS0)_2TX	19.1M	19.165M	19M2D1D	18.675M	18.966M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	38.05M	37.781M	37M8D1D	36.7M	37.581M

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

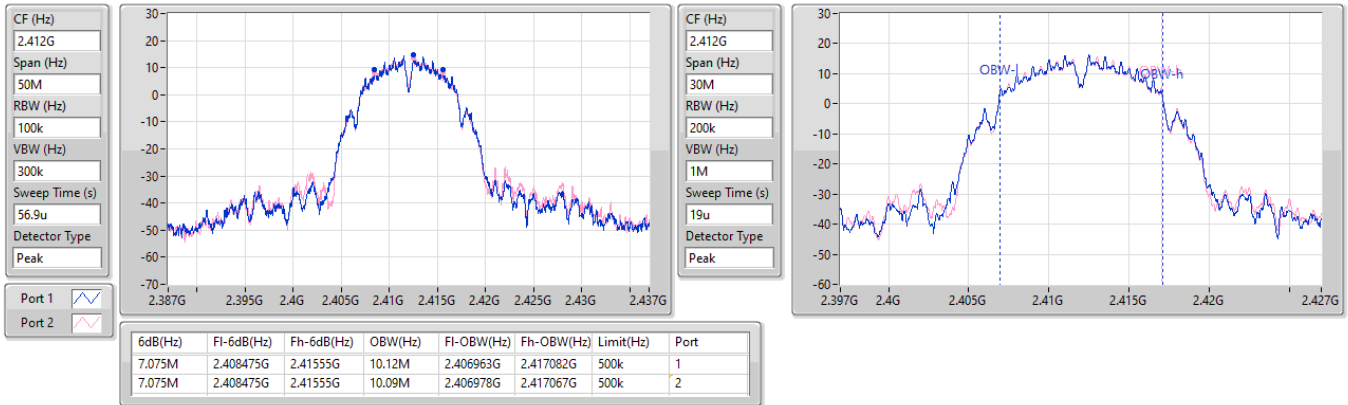
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.075M	10.12M	7.075M	10.09M
2437MHz	Pass	500k	7.05M	11.934M	7.075M	10.33M
2462MHz	Pass	500k	7.05M	10.06M	7.15M	9.955M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.425M	16.668M	16.55M	16.932M
2437MHz	Pass	500k	16.5M	16.932M	16M	16.734M
2462MHz	Pass	500k	16.45M	16.844M	16.55M	16.866M
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.675M	19.115M	19.1M	19.165M
2437MHz	Pass	500k	19.1M	18.991M	19.1M	18.966M
2462MHz	Pass	500k	19.1M	19.04M	19.075M	19.09M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	38.05M	37.731M	38.05M	37.781M
2437MHz	Pass	500k	37.55M	37.681M	36.7M	37.581M
2452MHz	Pass	500k	36.9M	37.631M	37.95M	37.781M

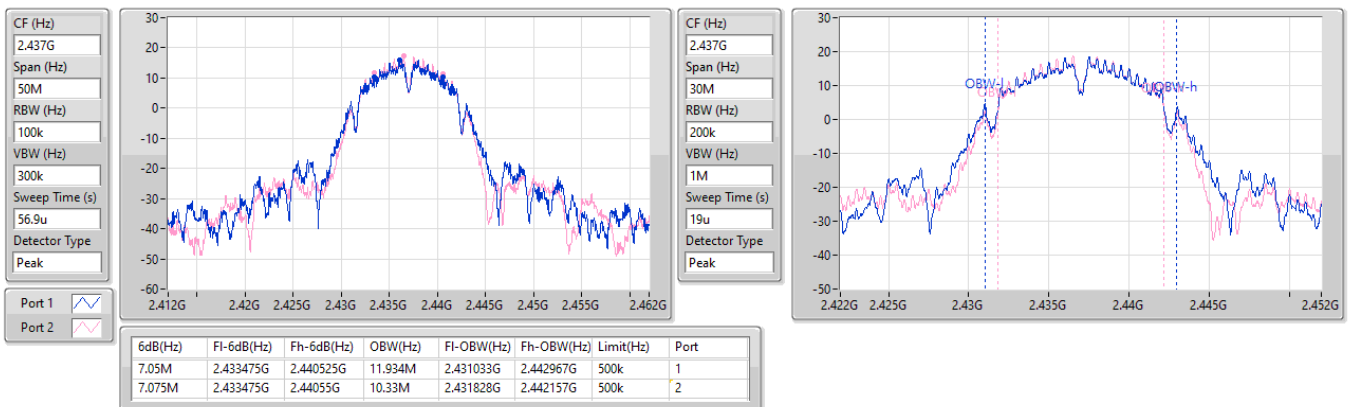
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

02/05/2024

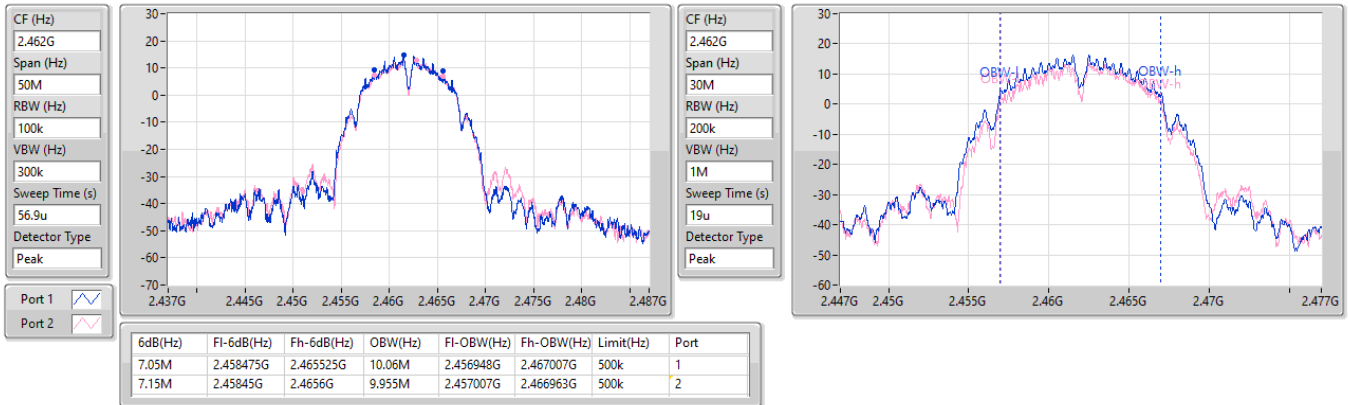

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

02/05/2024

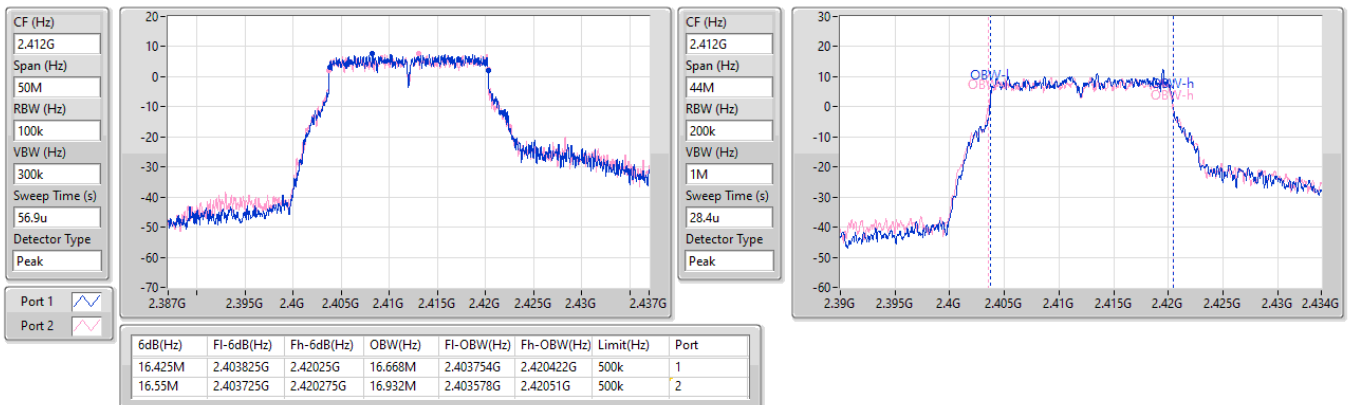


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

02/05/2024

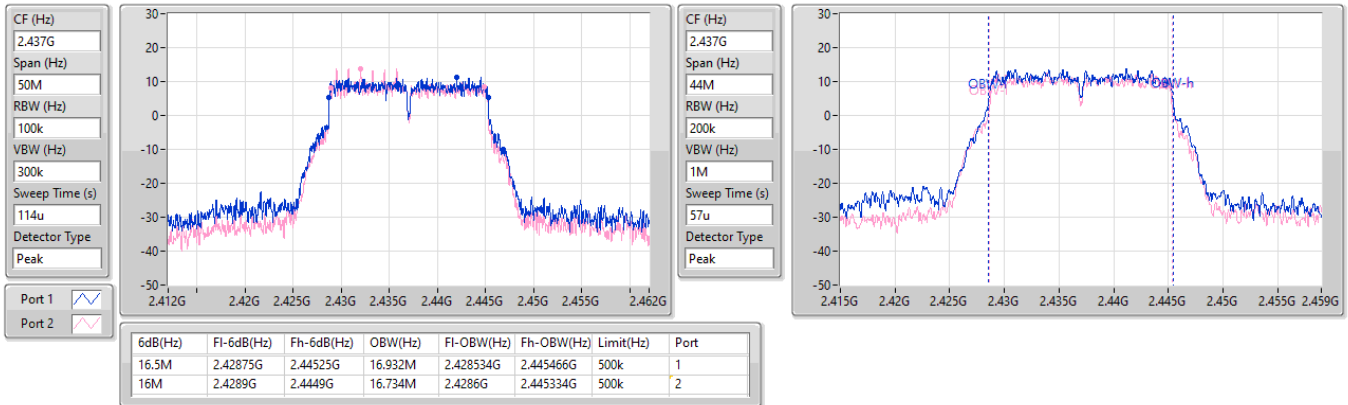

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

02/05/2024

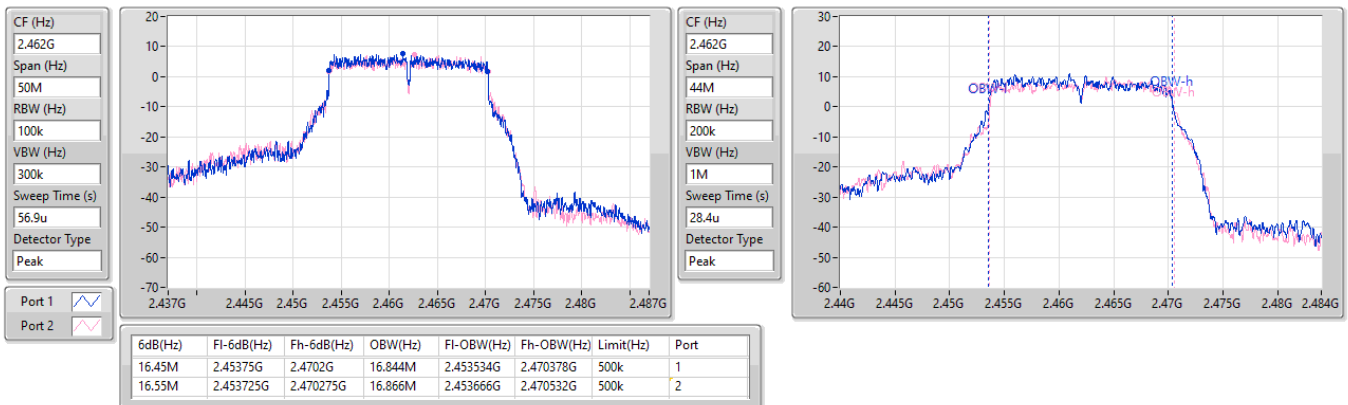


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

14/05/2024


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

02/05/2024

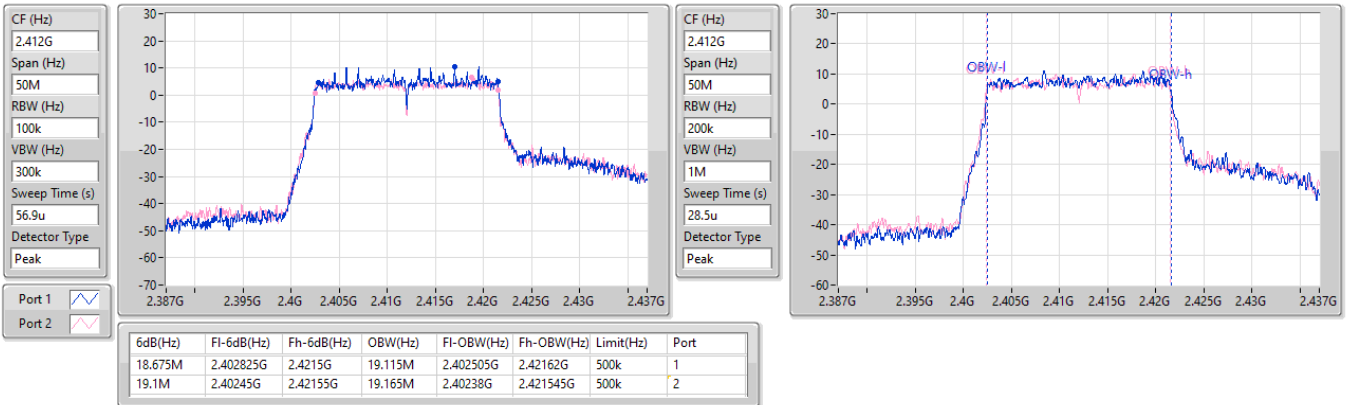


2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

2412MHz

02/05/2024

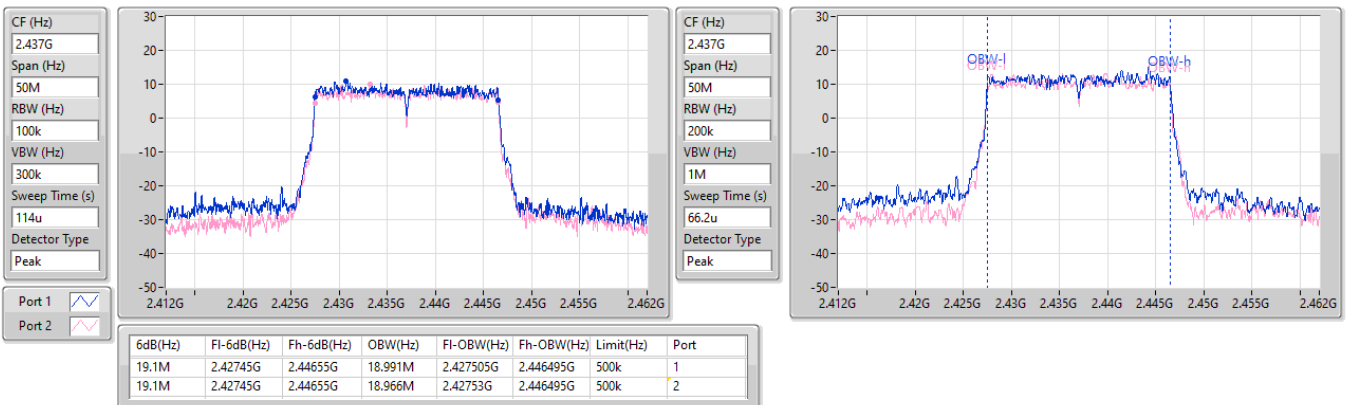


2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

2437MHz

10/05/2024

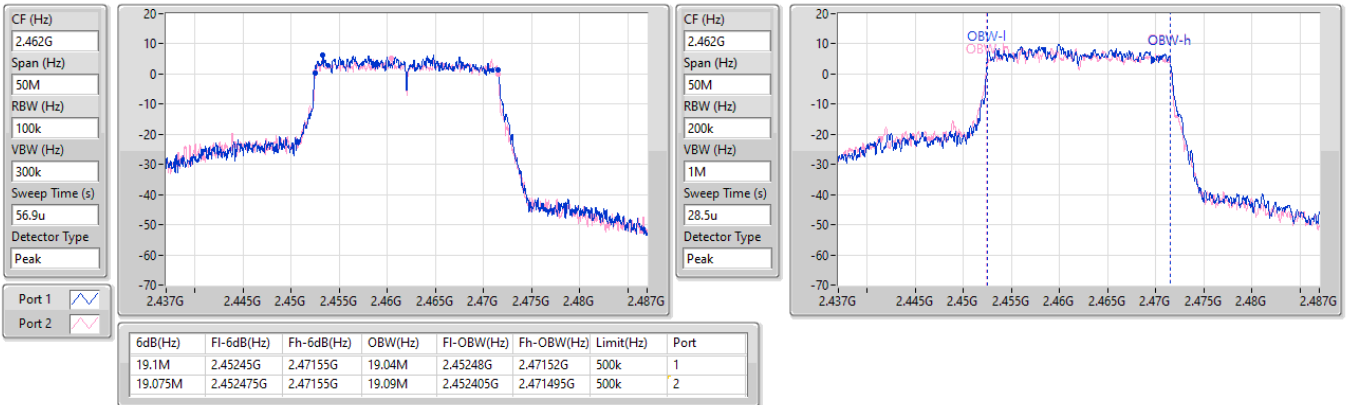


2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

2462MHz

02/05/2024

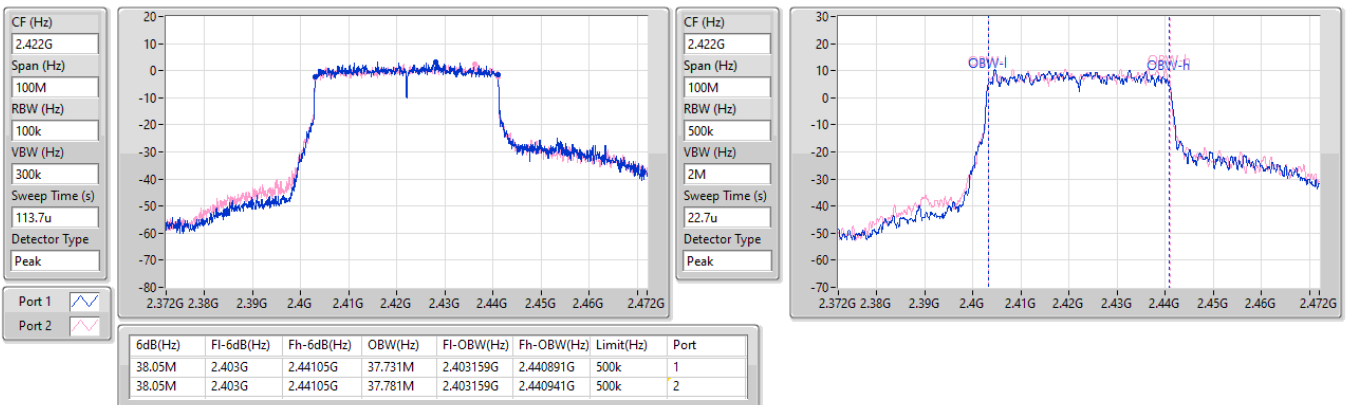


2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

2422MHz

02/05/2024

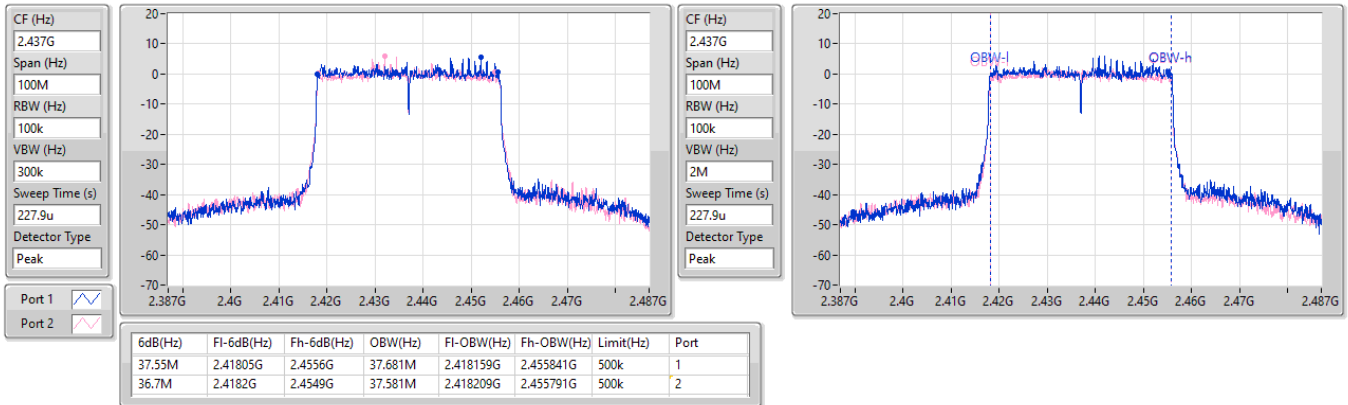


2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

2437MHz

10/05/2024

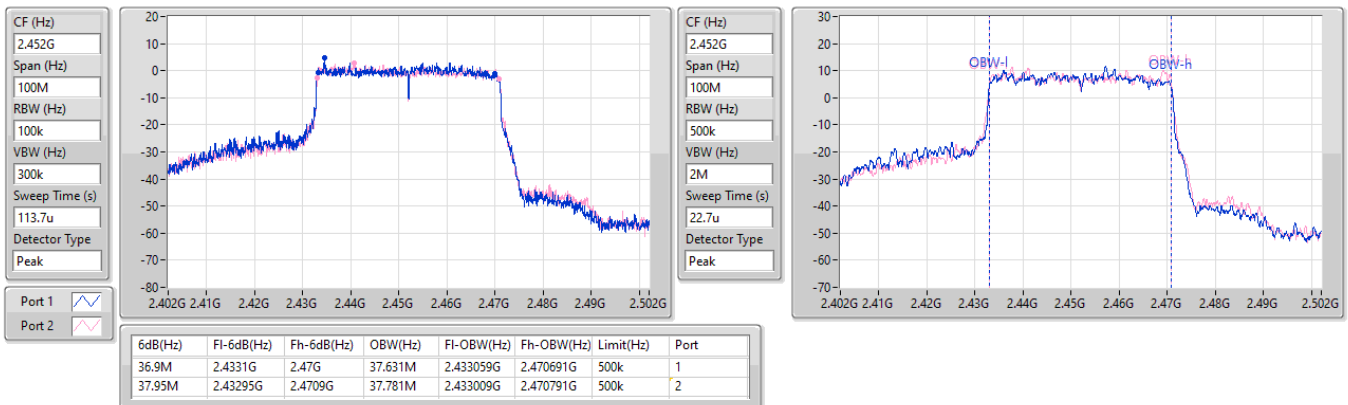


2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

2452MHz

02/05/2024





Average Power

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.12	0.81658
802.11g_Nss1,(6Mbps)_2TX	27.86	0.61094
802.11be EHT20-BF_Nss1,(MCS0)_2TX	28.36	0.68549
802.11be EHT40-BF_Nss1,(MCS0)_2TX	23.54	0.22594

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.46	23.31	23.36	26.35	30.00
2437MHz	Pass	3.46	26.05	26.17	29.12	30.00
2462MHz	Pass	3.46	22.71	22.61	25.67	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.46	21.34	21.08	24.22	30.00
2417MHz	Pass	3.46	22.76	21.98	25.40	30.00
2437MHz	Pass	3.46	25.23	24.44	27.86	30.00
2457MHz	Pass	3.46	23.64	22.78	26.24	30.00
2462MHz	Pass	3.46	21.11	20.69	23.92	30.00
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.43	21.08	20.86	23.98	29.57
2417MHz	Pass	6.43	22.73	21.80	25.30	29.57
2437MHz	Pass	6.43	25.70	24.96	28.36	29.57
2457MHz	Pass	6.43	22.56	21.57	25.10	29.57
2462MHz	Pass	6.43	20.11	19.64	22.89	29.57
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.43	20.06	19.31	22.71	29.57
2437MHz	Pass	6.43	20.84	20.20	23.54	29.57
2452MHz	Pass	6.43	19.87	19.26	22.59	29.57

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	6.98
802.11g_Nss1,(6Mbps)_2TX	0.89
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-0.20
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-6.41

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.43	0.92	0.34	2.46	7.57
2437MHz	Pass	6.43	4.93	2.99	6.98	7.57
2462MHz	Pass	6.43	1.49	1.47	4.49	7.57
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.43	-4.11	-4.41	-1.63	7.57
2437MHz	Pass	6.43	-0.66	-1.07	0.89	7.57
2462MHz	Pass	6.43	-4.26	-4.12	-2.79	7.57
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.43	-5.30	-4.92	-3.27	7.57
2437MHz	Pass	6.43	-1.05	-1.38	-0.20	7.57
2462MHz	Pass	6.43	-5.41	-5.48	-3.97	7.57
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.43	-9.62	-8.71	-6.41	7.57
2437MHz	Pass	6.43	-8.69	-8.62	-7.25	7.57
2452MHz	Pass	6.43	-9.52	-9.66	-8.09	7.57

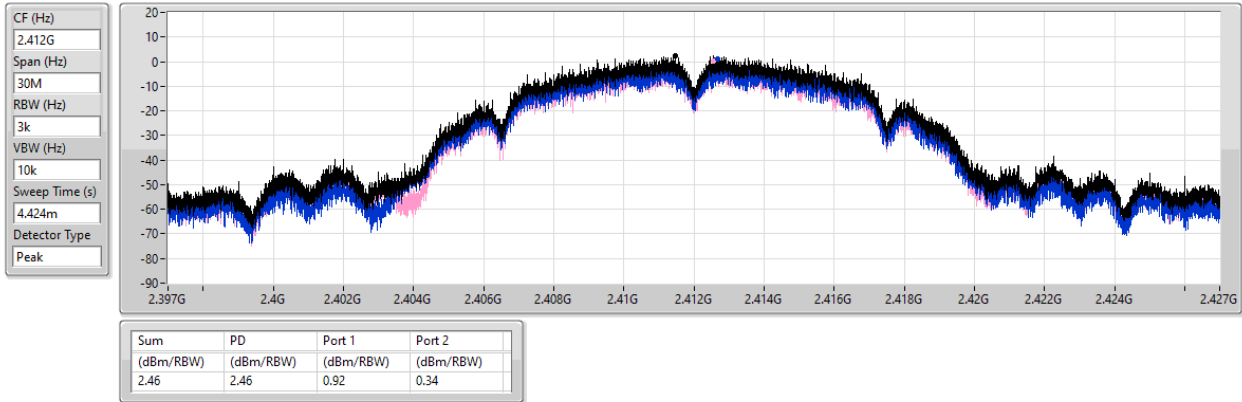
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

02/05/2024

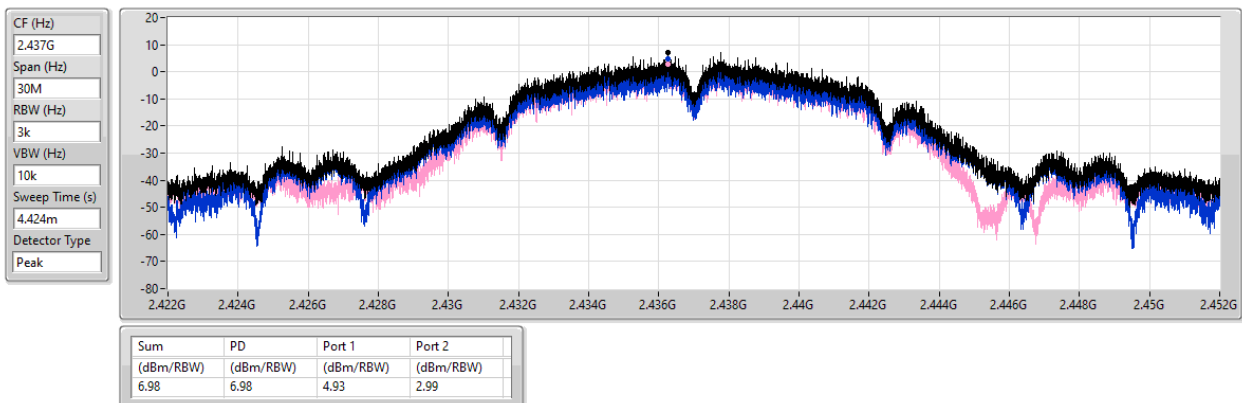


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

02/05/2024

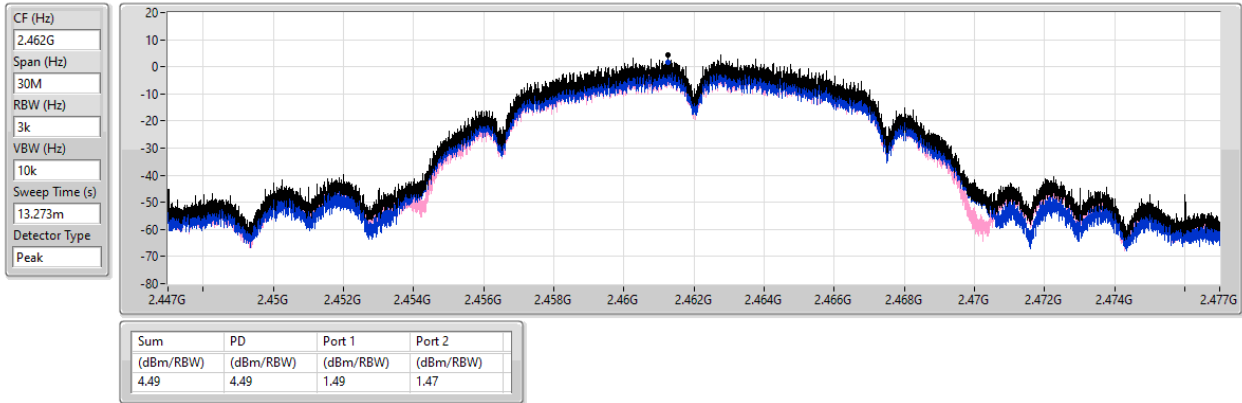


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

02/05/2024

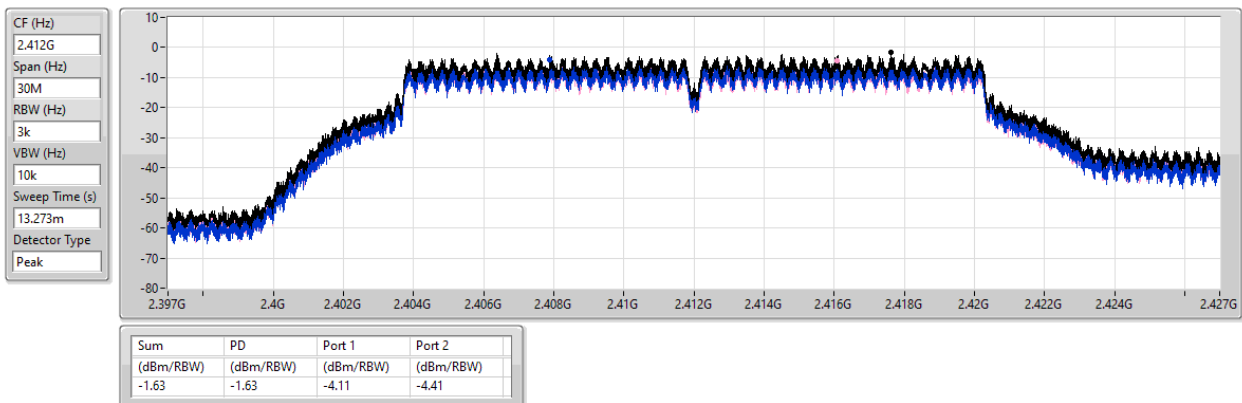


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

02/05/2024

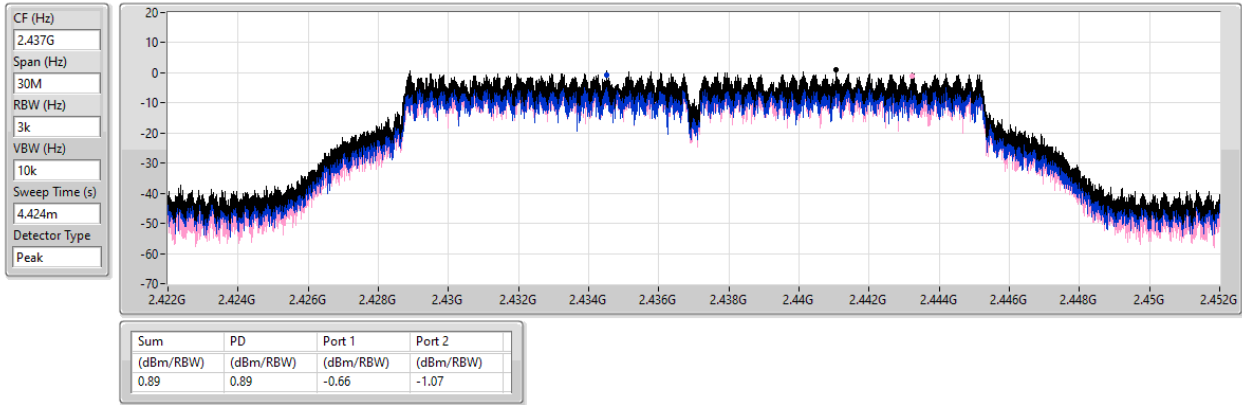


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

14/05/2024

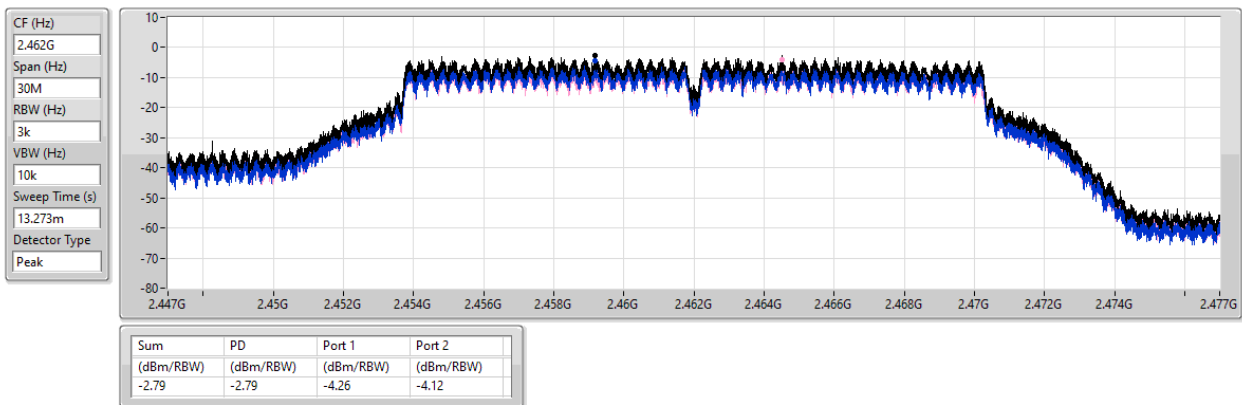


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

02/05/2024

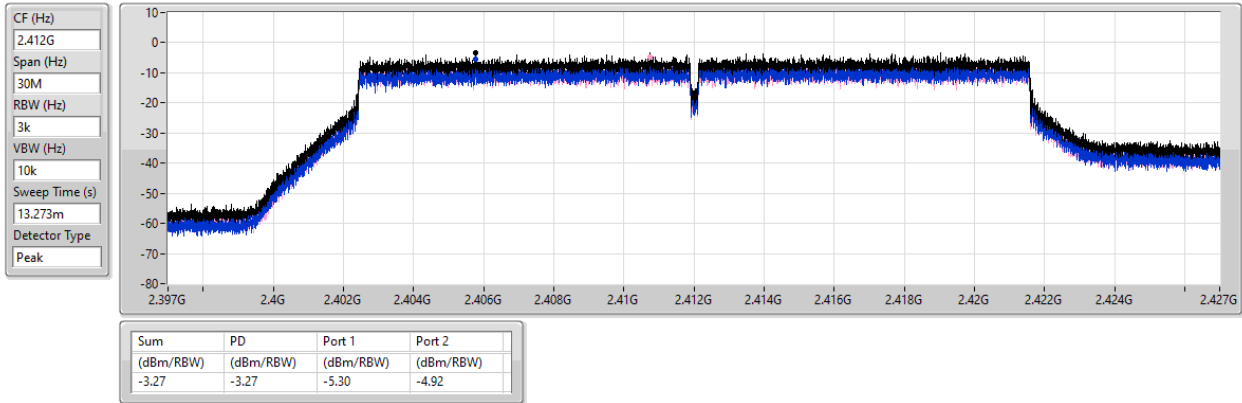


2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

PSD

2412MHz

02/05/2024

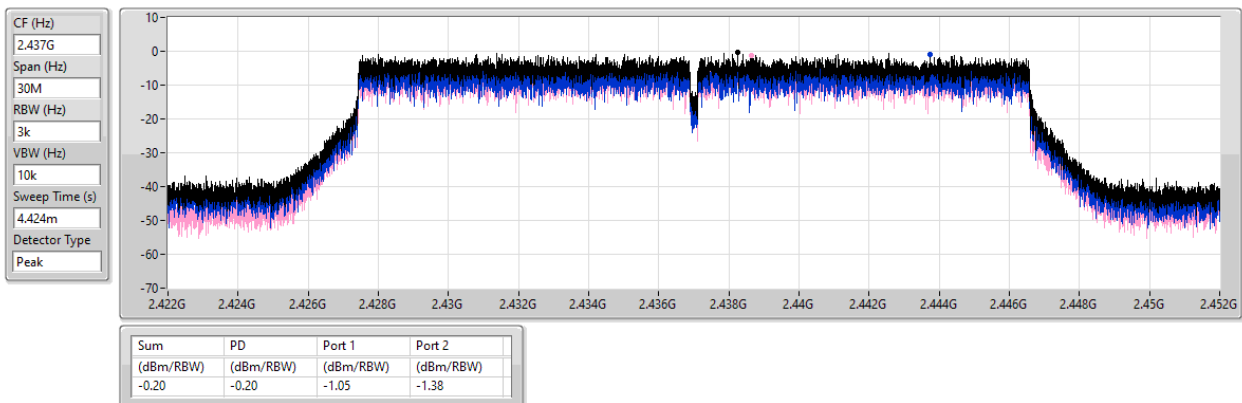


2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

10/05/2024

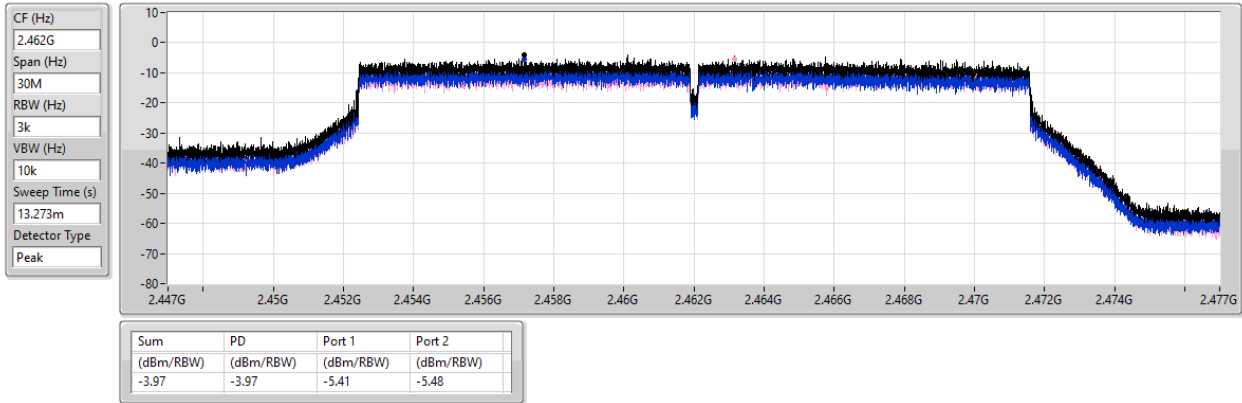


2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

02/05/2024

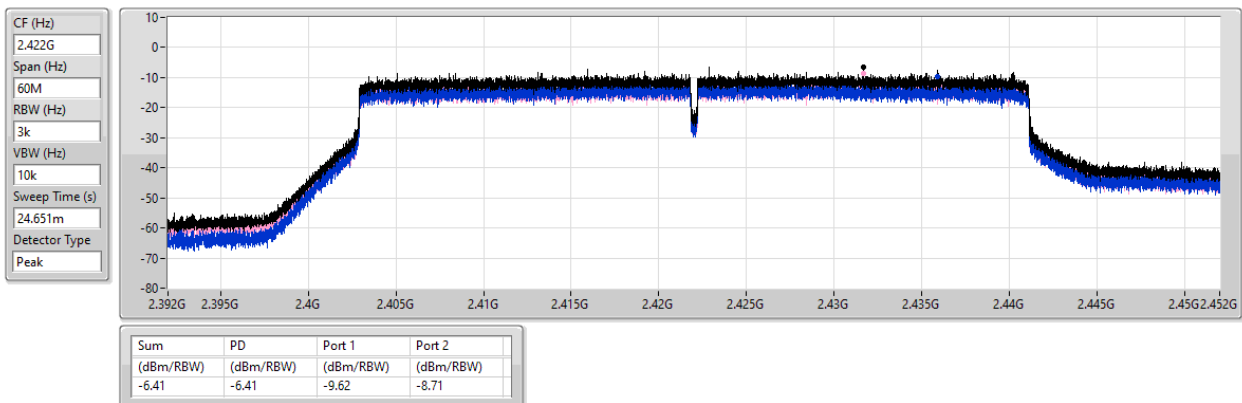


2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

02/05/2024

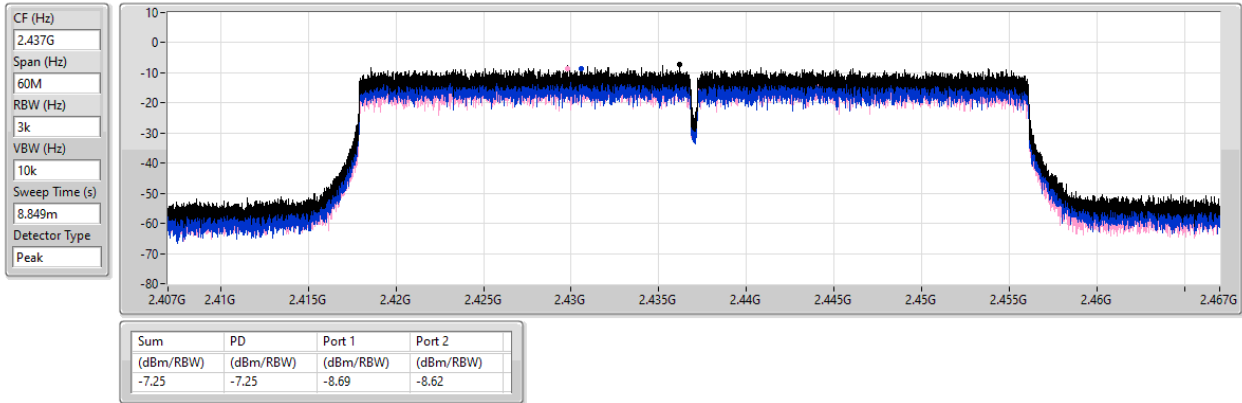


2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

10/05/2024

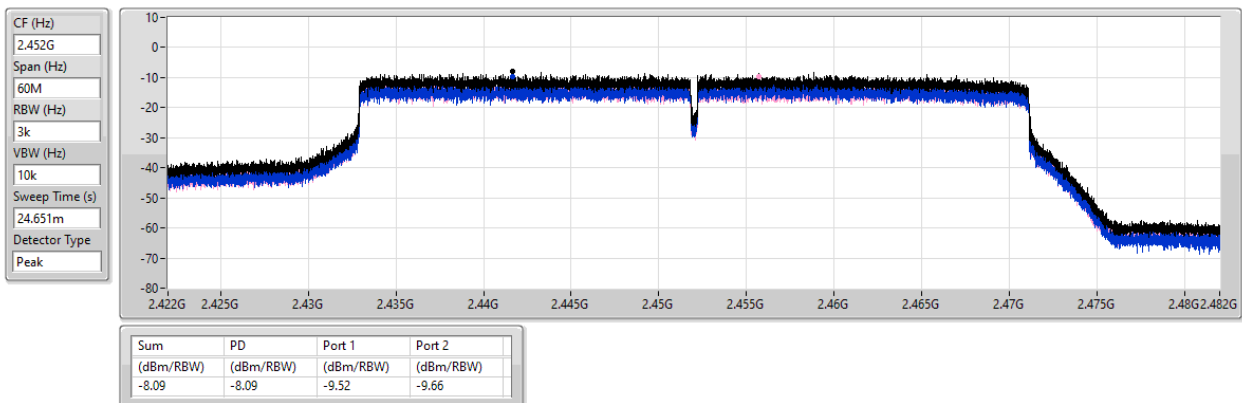


2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

PSD

2452MHz

02/05/2024





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43808G	18.07	-11.93	2.10836G	-53.60	2.4G	-32.41	2.4G	-31.58	2.50742G	-52.56	16.26226G	-44.71	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43073G	14.12	-15.88	2.08506G	-53.08	2.39992G	-37.43	2.4G	-31.27	2.51606G	-51.41	17.45352G	-43.60	1
802.11be EHT20-BF_Nss1,(MCS0)_2TX	Pass	2.43073G	14.96	-15.04	1.85672G	-52.51	2.4G	-34.13	2.4G	-30.26	2.52134G	-51.02	24.94662G	-43.24	1
802.11be EHT40-BF_Nss1,(MCS0)_2TX	Pass	2.4344G	6.73	-23.27	1.8162G	-52.21	2.4G	-28.05	2.4G	-27.43	2.50958G	-51.90	15.31865G	-43.56	2

Result

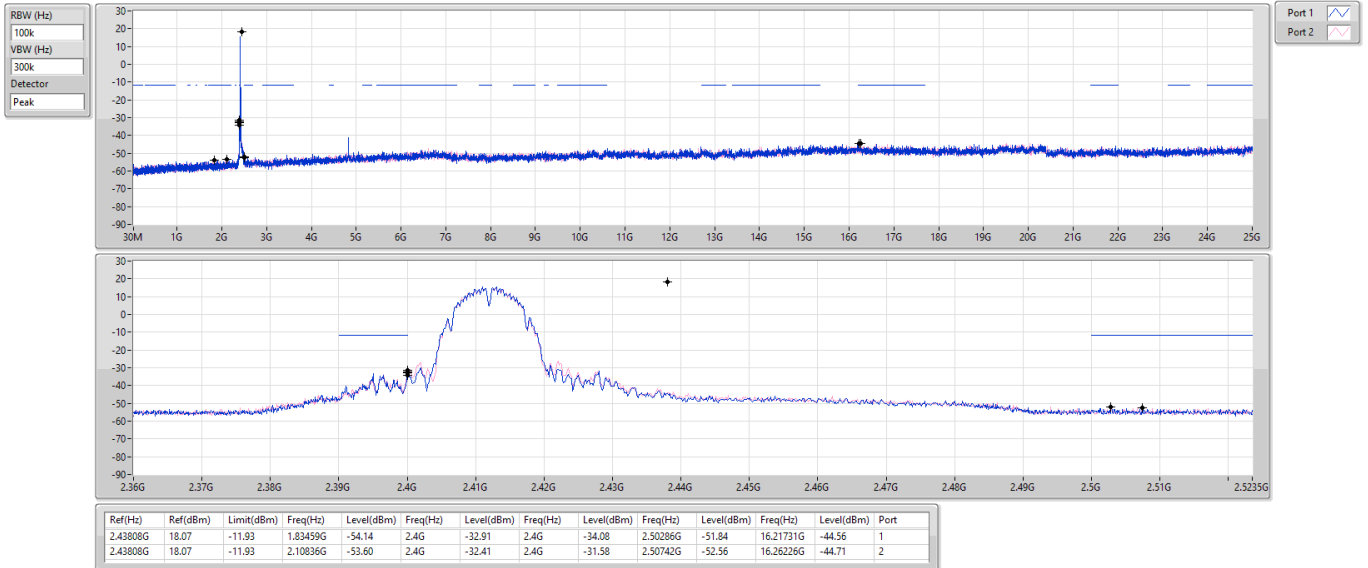
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43808G	18.07	-11.93	1.83459G	-54.14	2.4G	-32.91	2.4G	-34.08	2.50286G	-51.84	16.21731G	-44.56	1
2412MHz	Pass	2.43808G	18.07	-11.93	2.10836G	-53.60	2.4G	-32.41	2.4G	-31.58	2.50742G	-52.56	16.26226G	-44.71	2
2437MHz	Pass	2.43808G	18.07	-11.93	1.42917G	-53.89	2.3992G	-44.21	2.4G	-47.03	2.51038G	-51.75	24.66566G	-44.94	1
2437MHz	Pass	2.43808G	18.07	-11.93	1.74488G	-53.26	2.39808G	-45.48	2.4G	-46.10	2.5015G	-51.83	16.23697G	-44.39	2
2462MHz	Pass	2.43808G	18.07	-11.93	1.7309G	-53.99	2.39944G	-47.80	2.4G	-49.07	2.5207G	-52.97	16.20888G	-44.32	1
2462MHz	Pass	2.43808G	18.07	-11.93	2.14797G	-53.47	2.39288G	-47.48	2.4G	-48.77	2.5115G	-50.91	15.21429G	-44.88	2
802.11g_Nss1.(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	14.12	-15.88	2.08506G	-53.08	2.39992G	-37.43	2.4G	-31.27	2.51606G	-51.41	17.45352G	-43.60	1
2412MHz	Pass	2.43073G	14.12	-15.88	1.97439G	-53.09	2.39832G	-35.04	2.4G	-31.98	2.51254G	-52.11	16.31564G	-43.97	2
2437MHz	Pass	2.43073G	14.12	-15.88	943.36M	-51.20	2.39896G	-37.23	2.4G	-37.78	2.51646G	-50.67	16.52636G	-44.78	1
2437MHz	Pass	2.43073G	14.12	-15.88	890.94M	-51.01	2.3992G	-37.41	2.4G	-38.97	2.51758G	-49.74	24.54766G	-44.81	2
2462MHz	Pass	2.43073G	14.12	-15.88	1.65751G	-51.34	2.39904G	-46.66	2.4G	-47.80	2.52046G	-51.70	17.45632G	-43.54	1
2462MHz	Pass	2.43073G	14.12	-15.88	1.79847G	-52.71	2.39432G	-47.22	2.4G	-48.61	2.50494G	-51.41	24.13746G	-43.26	2
802.11be EHT20-BF_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	14.96	-15.04	1.85672G	-52.51	2.4G	-34.13	2.4G	-30.26	2.52134G	-51.02	24.94662G	-43.24	1
2412MHz	Pass	2.43073G	14.96	-15.04	2.19923G	-50.99	2.4G	-33.97	2.4G	-31.44	2.51318G	-51.36	16.6275G	-43.52	2
2437MHz	Pass	2.43073G	14.96	-15.04	180.29M	-51.64	2.39944G	-33.05	2.4G	-34.53	2.52174G	-50.79	24.89324G	-44.13	1
2437MHz	Pass	2.43073G	14.96	-15.04	920.06M	-50.07	2.39872G	-35.85	2.4G	-36.00	2.51166G	-50.59	6.54679G	-44.11	2
2462MHz	Pass	2.43073G	14.96	-15.04	1.71576G	-52.81	2.3956G	-47.47	2.4G	-49.48	2.52014G	-51.29	15.27891G	-43.36	1
2462MHz	Pass	2.43073G	14.96	-15.04	2.06526G	-52.95	2.39816G	-48.16	2.4G	-48.08	2.50174G	-50.81	16.5376G	-43.69	2
802.11be EHT40-BF_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.4344G	6.73	-23.27	1.89521G	-52.62	2.4G	-29.26	2.4G	-28.28	2.55822G	-51.33	17.46695G	-44.09	1
2422MHz	Pass	2.4344G	6.73	-23.27	1.8162G	-52.21	2.4G	-28.05	2.4G	-27.43	2.50958G	-51.90	15.31865G	-43.56	2
2437MHz	Pass	2.4344G	6.73	-23.27	897.91M	-50.99	2.39456G	-39.02	2.4G	-38.72	2.50478G	-51.36	24.98878G	-44.04	1
2437MHz	Pass	2.4344G	6.73	-23.27	849.82M	-51.66	2.39744G	-38.66	2.4G	-38.88	2.56078G	-51.21	16.46852G	-44.64	2
2452MHz	Pass	2.4344G	6.73	-23.27	2.07726G	-52.80	2.39984G	-34.68	2.4G	-35.36	2.56046G	-51.39	14.90918G	-44.17	1
2452MHz	Pass	2.4344G	6.73	-23.27	1.77727G	-51.93	2.39872G	-34.83	2.4G	-34.64	2.5579G	-51.30	16.21891G	-44.07	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2412MHz

02/05/2024

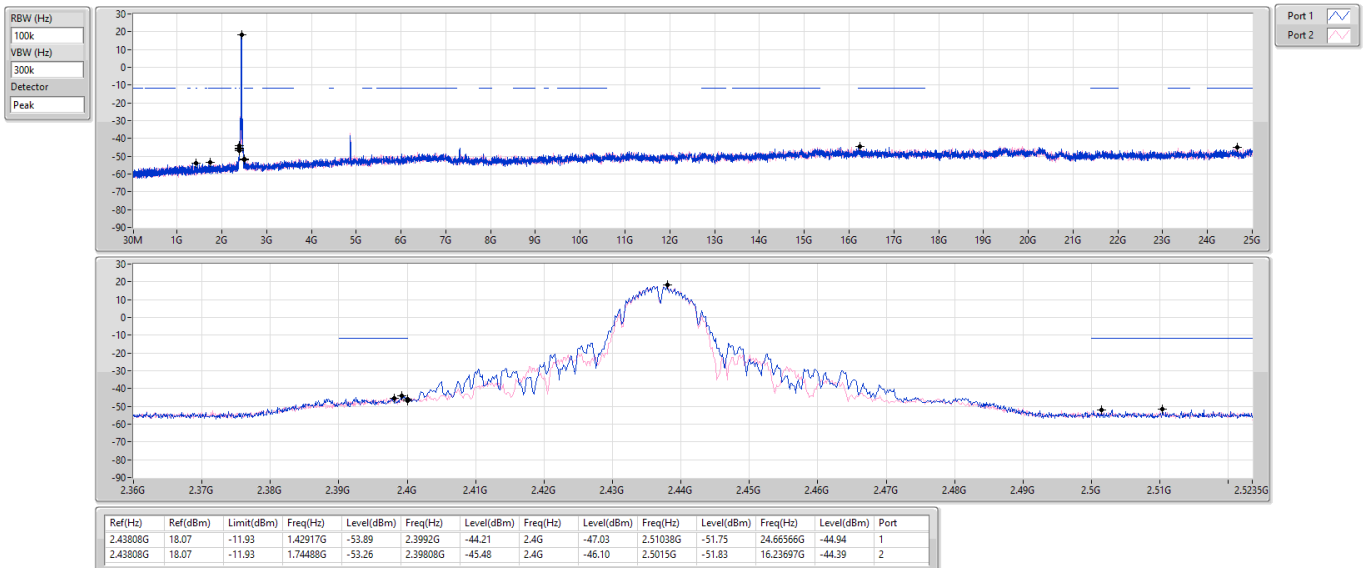


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2437MHz

02/05/2024

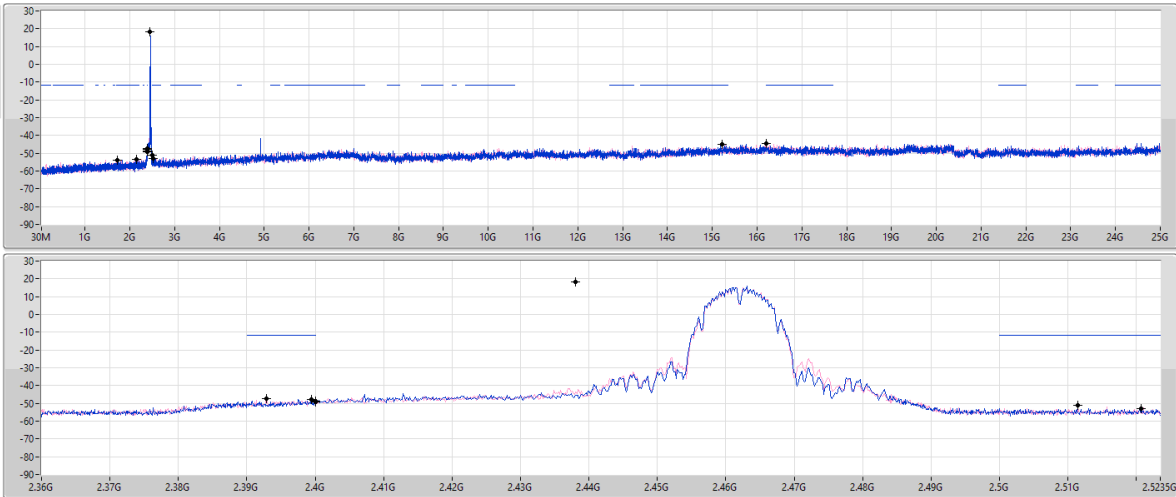


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2462MHz

02/05/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

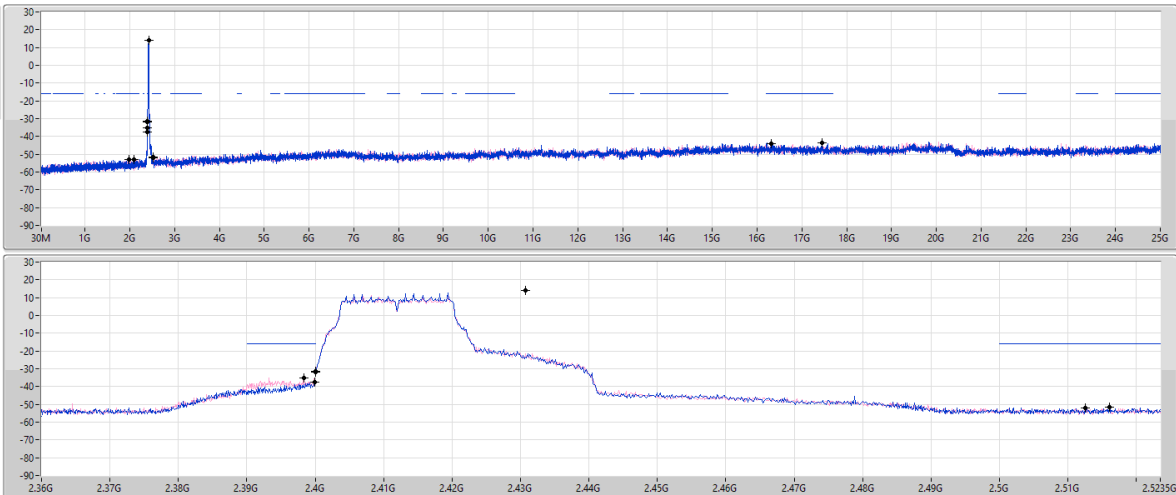
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2.43808G	18.07	-11.93	1.7309G	-53.99	2.39944G	-47.80	2.4G	-49.07	2.5207G	-52.97	16.20888G	-44.32	1
2.43808G	18.07	-11.93	2.14797G	-53.47	2.39288G	-47.48	2.4G	-48.77	2.5115G	-50.91	15.21429G	-44.88	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2412MHz

14/05/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

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
2.43073G	14.12	-15.88	2.08506G	-53.08	2.39992G	-37.43	2.4G	-31.27	2.51606G	-51.41	17.45352G	-43.60	1
2.43073G	14.12	-15.88	1.97439G	-53.09	2.39832G	-35.04	2.4G	-31.98	2.51254G	-52.11	16.31564G	-43.97	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

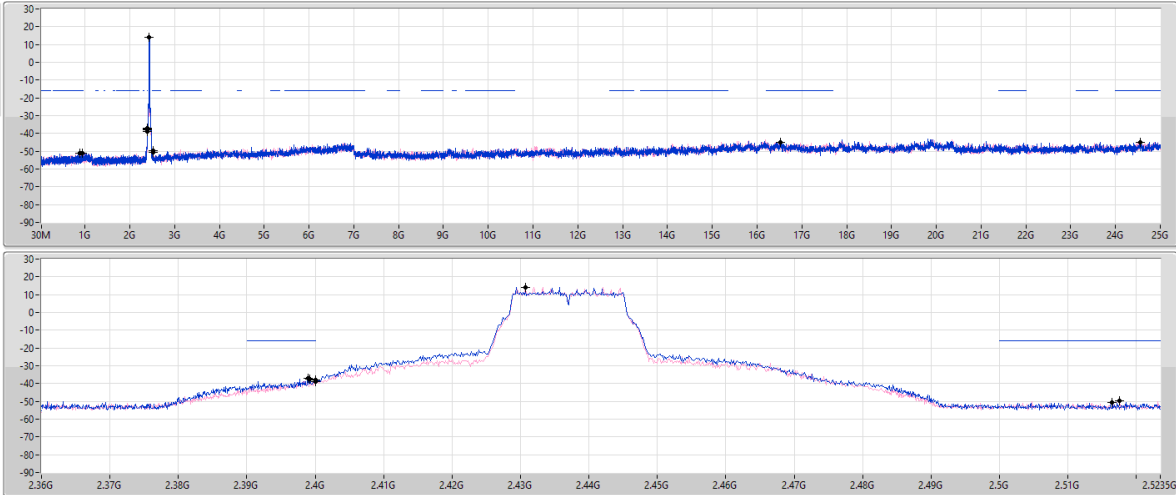
CSEndB

2437MHz

14/05/2024

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

Port 1
Port 2



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
2.43073G	14.12	-15.88	943.36M	-51.20	2.39896G	-37.23	2.4G	-37.78	2.51646G	-50.67	16.52636G	-44.78	1
2.43073G	14.12	-15.88	890.94M	-51.01	2.3992G	-37.41	2.4G	-38.97	2.51758G	-49.74	24.54766G	-44.81	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

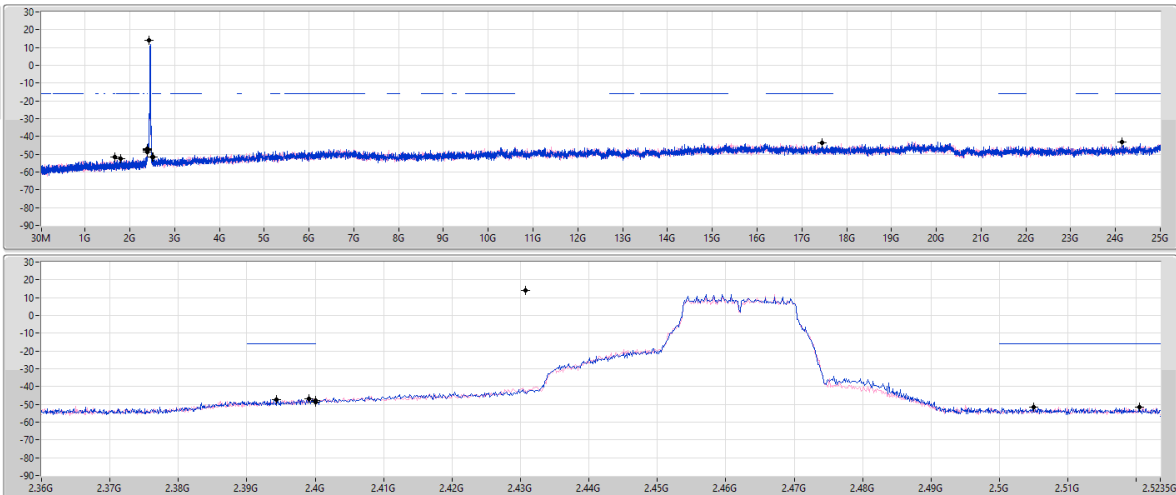
CSEndB

2462MHz

14/05/2024

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

Port 1
Port 2



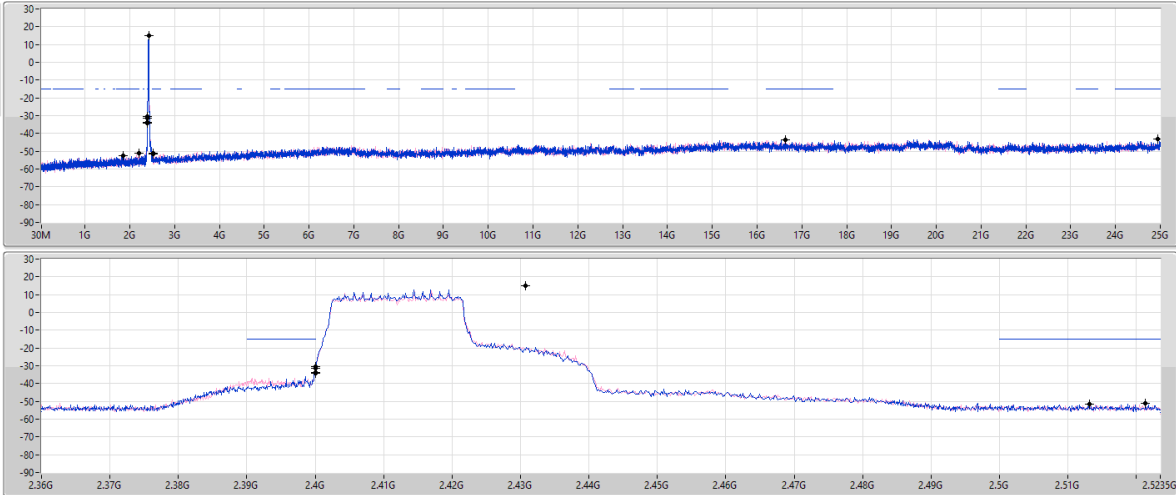
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43073G	14.12	-15.88	1.65751G	-51.34	2.39904G	-46.66	2.4G	-47.80	2.52046G	-51.70	17.45632G	-43.54	1
2.43073G	14.12	-15.88	1.79847G	-52.71	2.39432G	-47.22	2.4G	-48.61	2.50494G	-51.41	24.13746G	-43.26	2

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

CSEndB

2412MHz

10/05/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

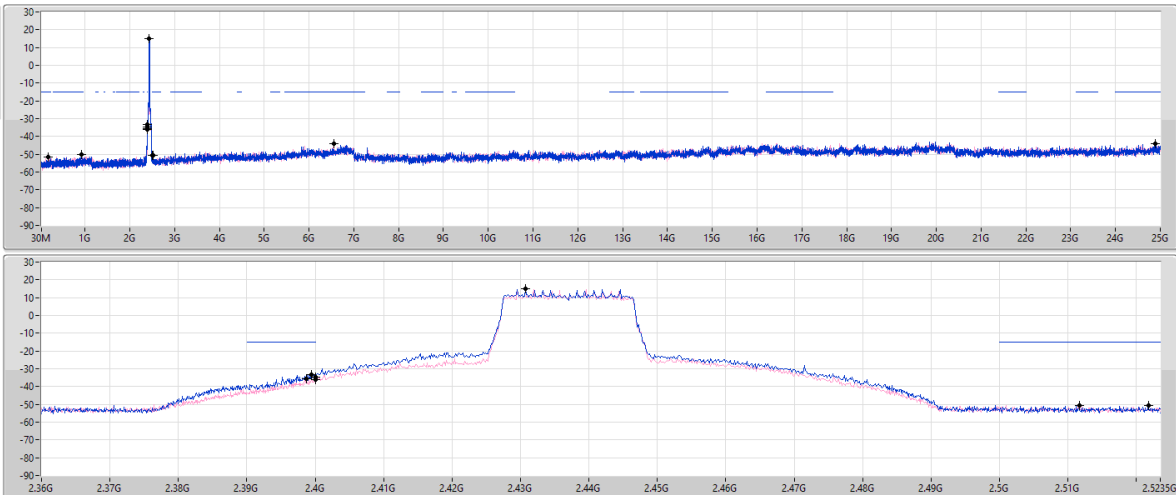
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2.43073G	14.96	-15.04	1.85672G	-52.51	2.4G	-34.13	2.4G	-30.26	2.52134G	-51.02	24.94662G	-43.24	1
2.43073G	14.96	-15.04	2.19923G	-50.99	2.4G	-33.97	2.4G	-31.44	2.51318G	-51.36	16.6275G	-43.52	2

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

CSEndB

2437MHz

10/05/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

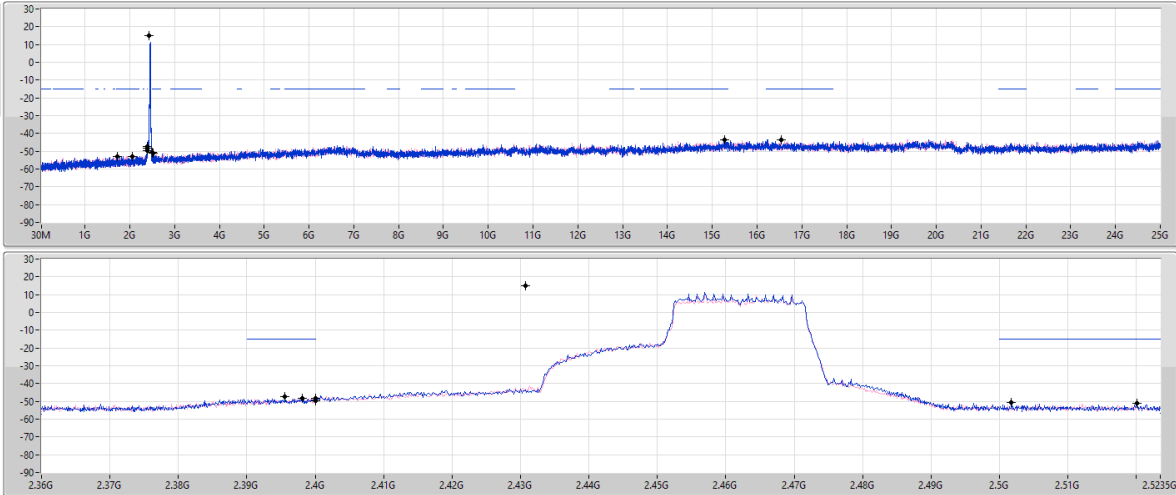
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43073G	14.96	-15.04	180.29M	-51.64	2.39944G	-33.05	2.4G	-34.53	2.52174G	-50.79	24.89324G	-44.13	1
2.43073G	14.96	-15.04	920.06M	-50.07	2.39872G	-33.85	2.4G	-36.00	2.51166G	-50.59	6.54679G	-44.11	2

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

CSEndB

2462MHz

10/05/2024

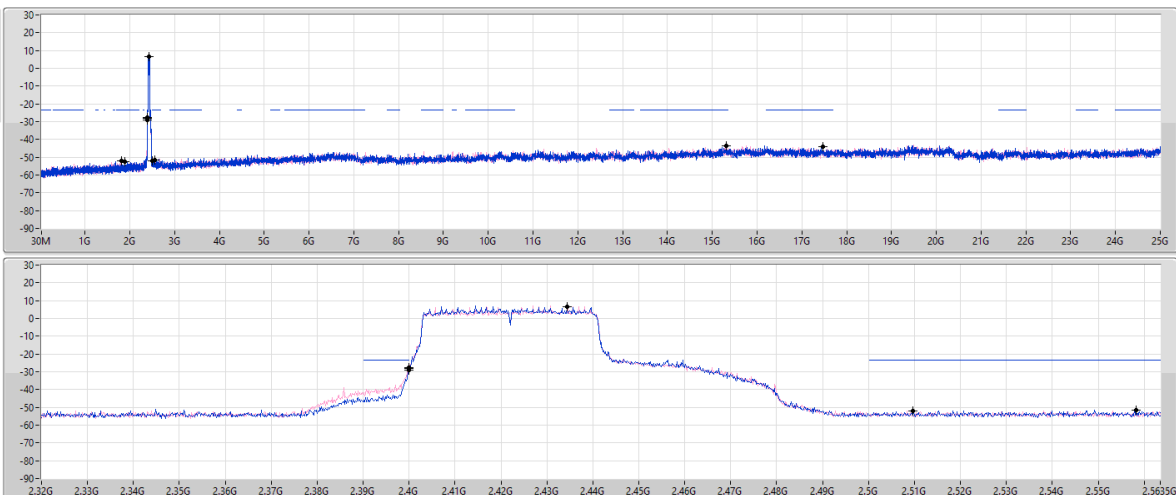
RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

CSEndB

2422MHz

10/05/2024

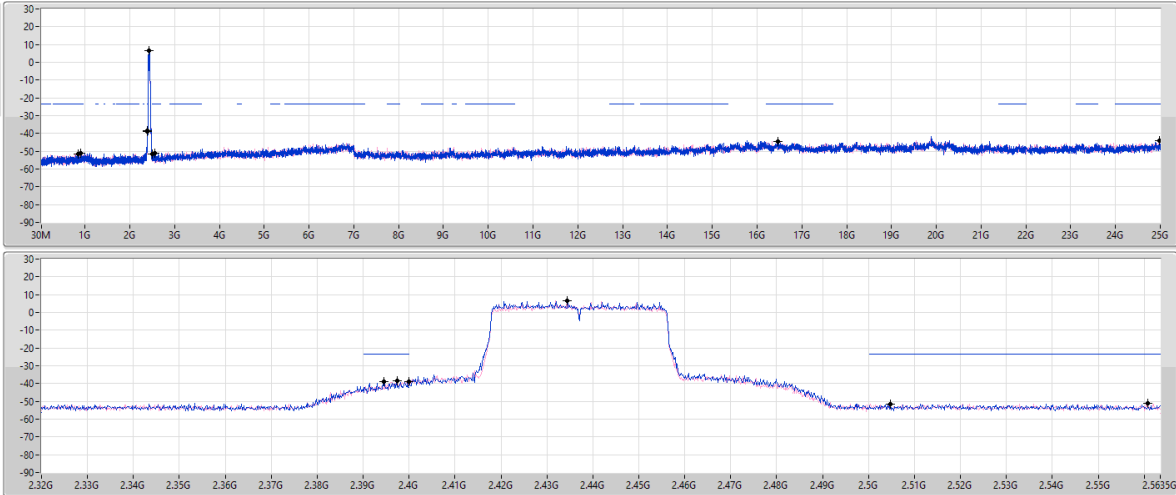
RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

CSEndB

2437MHz

10/05/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

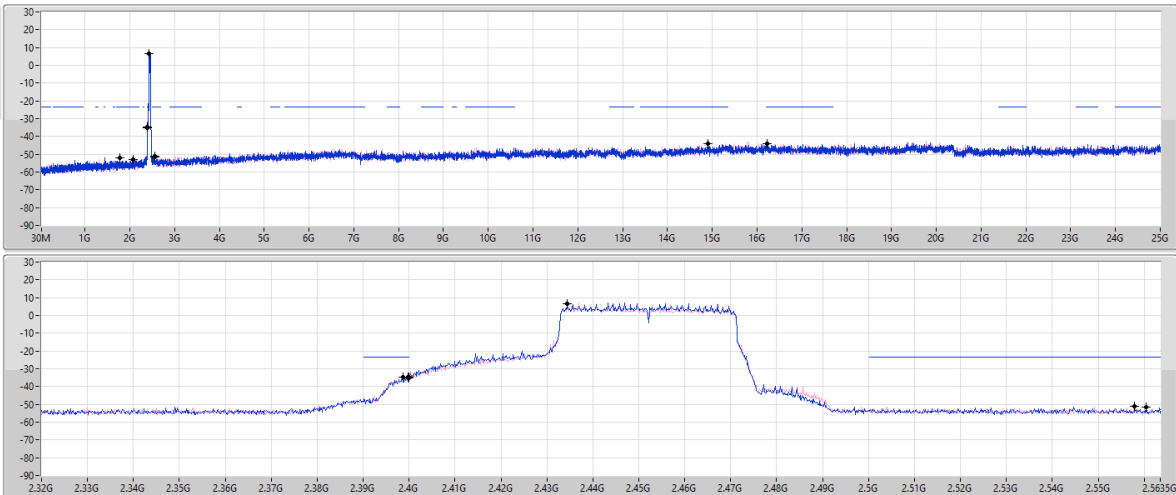
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4344G	6.73	-23.27	897.91M	-50.99	2.39456G	-39.02	2.4G	-38.72	2.50478G	-51.36	24.98878G	-44.04	1
2.4344G	6.73	-23.27	849.82M	-51.66	2.39744G	-38.66	2.4G	-38.88	2.56078G	-51.21	16.46852G	-44.64	2

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

CSEndB

2452MHz

10/05/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

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
2.4344G	6.73	-23.27	2.07726G	-52.80	2.39984G	-34.68	2.4G	-35.36	2.58046G	-51.39	14.90918G	-44.17	1
2.4344G	6.73	-23.27	1.77727G	-51.93	2.39872G	-34.83	2.4G	-34.64	2.5579G	-51.30	16.21891G	-44.07	2



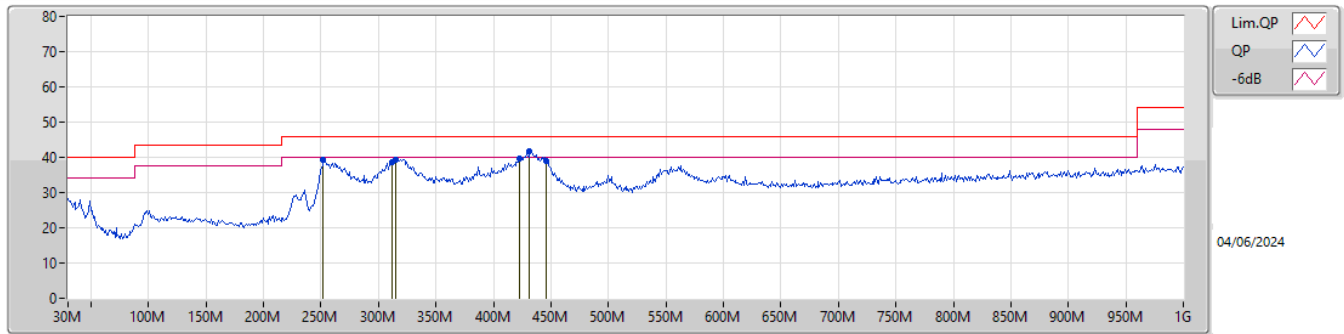
Radiated Emissions below 1GHz

Appendix F.1

Summary

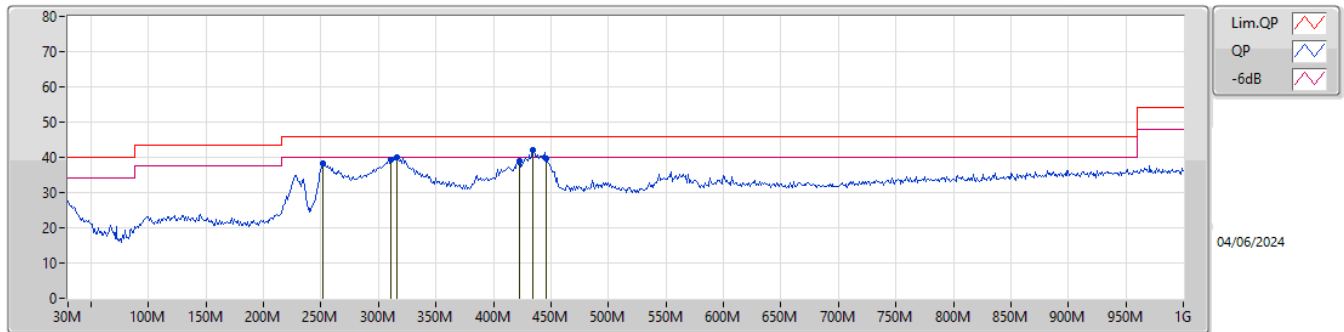
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	434.49M	41.95	46.00	-4.05	Horizontal

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	252.13M	39.18	46.00	-6.82	-10.48	3	Vertical	175	2.00	-	49.66	18.50	2.84	31.82		
PK	311.3M	38.61	46.00	-7.39	-9.20	3	Vertical	267	2.00	-	47.81	19.46	3.20	31.86		
PK	315.18M	39.38	46.00	-6.62	-9.12	3	Vertical	267	2.00	-	48.50	19.53	3.22	31.87		
PK	422.85M	39.63	46.00	-6.37	-5.88	3	Vertical	86	1.50	-	45.51	22.33	3.80	32.01		
PK	431.58M	41.72	46.00	-4.28	-5.83	3	Vertical	95	1.25	"Worst"	47.55	22.34	3.85	32.02		
PK	446.13M	39.11	46.00	-6.89	-5.65	3	Vertical	54	3.00	-	44.76	22.47	3.92	32.04		

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	252.13M	38.41	46.00	-7.59	-10.48	3	Horizontal	223	1.25	-	48.89	18.50	2.84	31.82		
PK	310.33M	39.33	46.00	-6.67	-9.23	3	Horizontal	105	1.25	-	48.56	19.44	3.19	31.86		
PK	316.15M	40.04	46.00	-5.96	-9.09	3	Horizontal	105	1.25	-	49.13	19.55	3.23	31.87		
PK	422.85M	38.86	46.00	-7.14	-5.88	3	Horizontal	49	1.00	-	44.74	22.33	3.80	32.01		
PK	434.49M	41.95	46.00	-4.05	-5.85	3	Horizontal	49	1.00	"Worst"	47.80	22.31	3.86	32.02		
PK	446.13M	39.66	46.00	-6.34	-5.65	3	Horizontal	132	2.00	-	45.31	22.47	3.92	32.04		

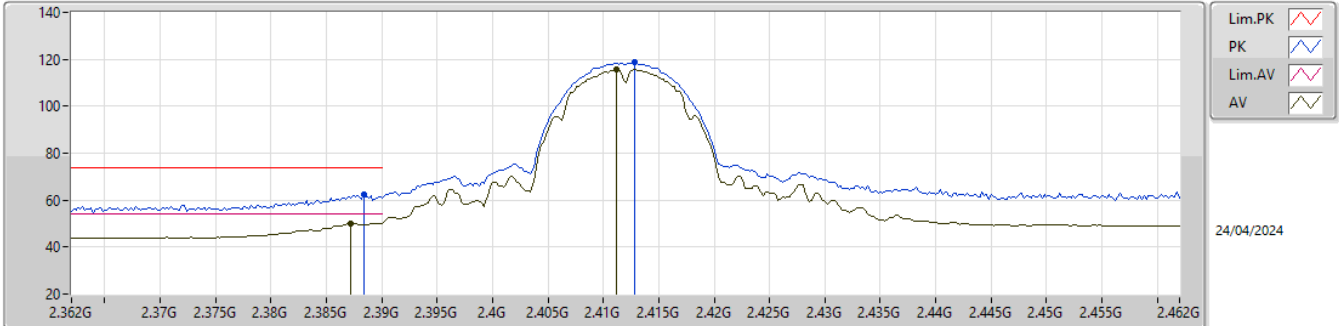


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4842G	53.90	54.00	-0.10	3	Vertical	195	2.14	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

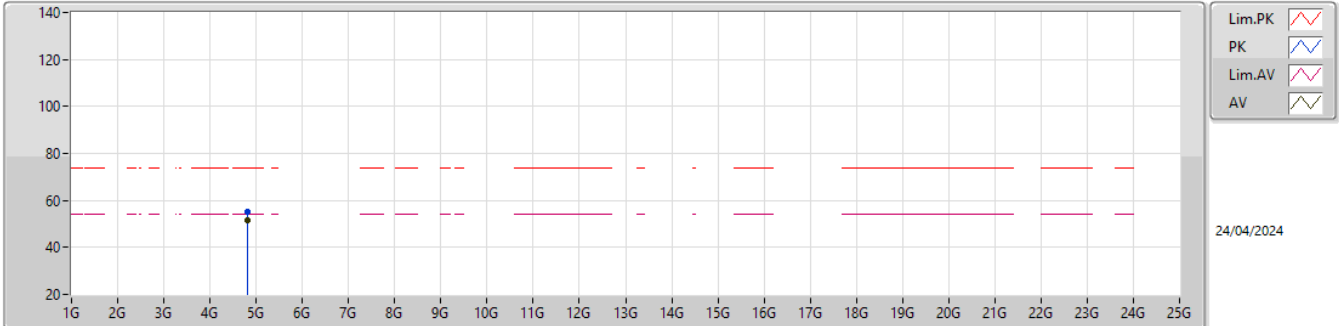


EUT_Z_2TX
Setting 98
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3884G	62.28	74.00	-11.72	29.63	3	Vertical	106	1.65	-	28.28	4.37	-			
AV	2.3872G	50.15	54.00	-3.85	17.51	3	Vertical	106	1.65	-	28.27	4.37	-			
PK	2.4128G	118.56	Inf	-Inf	85.87	3	Vertical	106	1.65	-	28.30	4.39	-			
AV	2.4112G	115.72	Inf	-Inf	83.03	3	Vertical	106	1.65	-	28.30	4.39	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

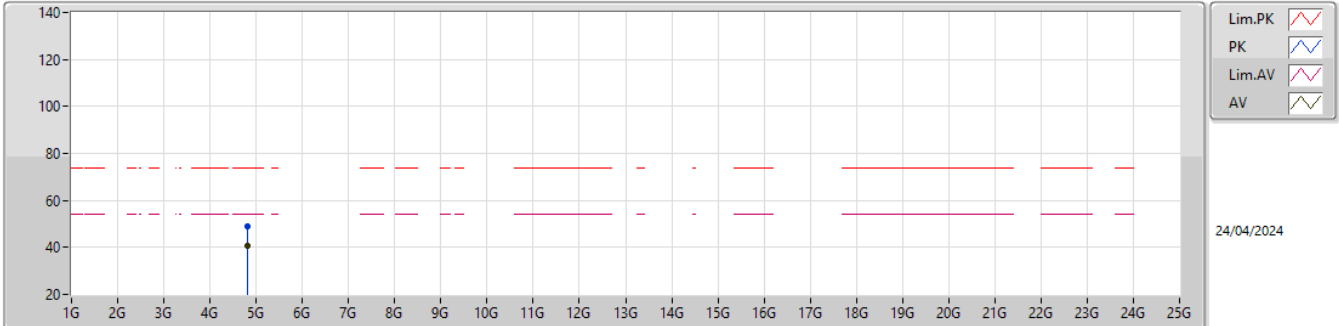


EUT_Z_2TX
Setting 98
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82406G	55.24	74.00	-18.76	50.39	3	Vertical	32	1.74	-	33.25	6.29	34.69			
AV	4.824G	51.75	54.00	-2.25	46.90	3	Vertical	32	1.74	-	33.25	6.29	34.69			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

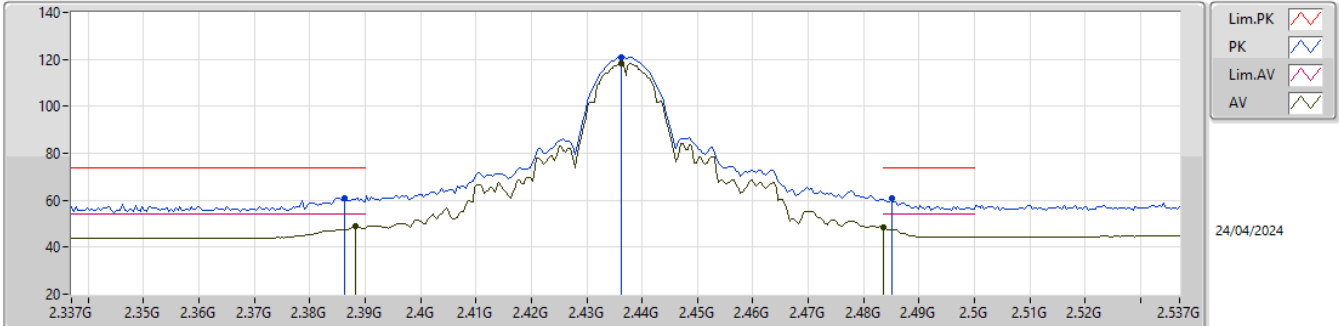


EUT_Z_2TX
Setting 98
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.824G	49.16	74.00	-24.84	44.31	3	Horizontal	194	1.63	-	33.25	6.29	34.69			
AV	4.824G	40.61	54.00	-13.39	35.76	3	Horizontal	194	1.63	-	33.25	6.29	34.69			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

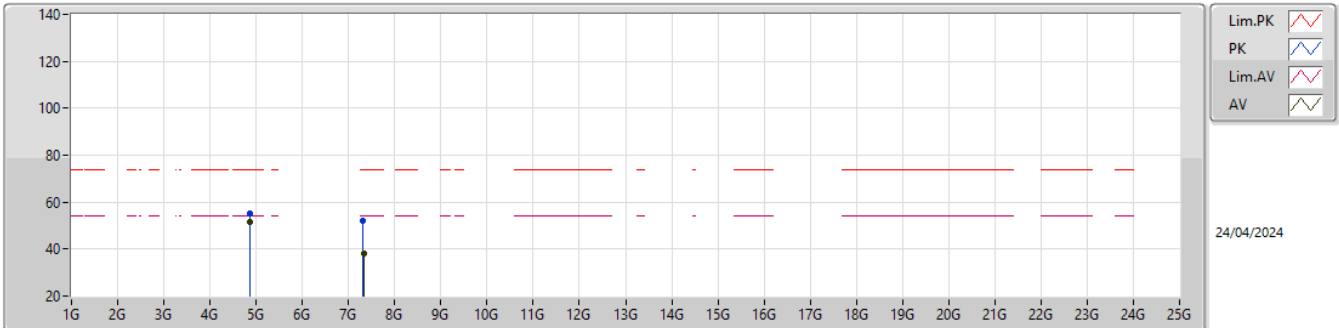


EUT_Z_2TX
Setting 108
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3862G	60.92	74.00	-13.08	28.30	3	Vertical	91	2.03	-	28.26	4.36	-				
AV	2.3882G	49.19	54.00	-4.81	16.54	3	Vertical	91	2.03	-	28.28	4.37	-				
PK	2.4362G	121.01	Inf	-Inf	88.31	3	Vertical	91	2.03	-	28.30	4.40	-				
AV	2.4362G	118.38	Inf	-Inf	85.68	3	Vertical	91	2.03	-	28.30	4.40	-				
PK	2.485G	60.70	74.00	-13.30	27.91	3	Vertical	91	2.03	-	28.35	4.44	-				
AV	2.4835G	48.66	54.00	-5.34	15.89	3	Vertical	91	2.03	-	28.34	4.43	-				

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

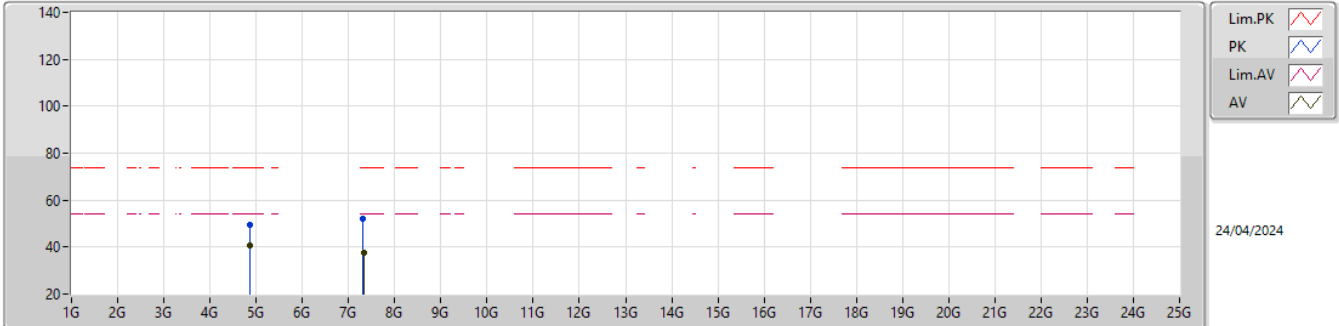


EUT_Z_2TX
Setting 108
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87406G	55.26	74.00	-18.74	50.28	3	Vertical	31	1.70	-	33.35	6.36	34.73			
AV	4.874G	51.72	54.00	-2.28	46.74	3	Vertical	31	1.70	-	33.35	6.36	34.73			
PK	7.30434G	52.30	74.00	-21.70	42.48	3	Vertical	105	2.96	-	36.72	8.48	35.38			
AV	7.3239G	37.86	54.00	-16.14	27.95	3	Vertical	105	2.96	-	36.80	8.48	35.37			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

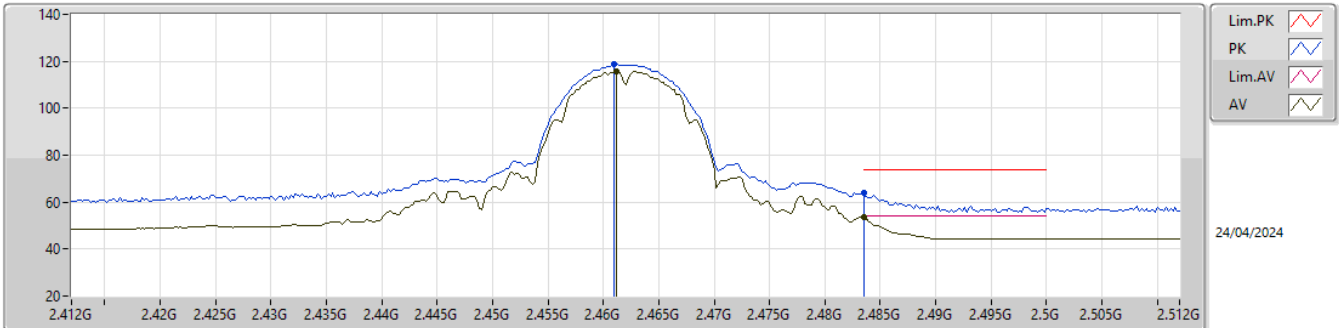


EUT_Z_2TX
Setting 108
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87388G	49.53	74.00	-24.47	44.55	3	Horizontal	192	1.66	-	33.35	6.36	34.73			
AV	4.874G	40.92	54.00	-13.08	35.94	3	Horizontal	192	1.66	-	33.35	6.36	34.73			
PK	7.30416G	52.07	74.00	-21.93	42.25	3	Horizontal	74	1.80	-	36.72	8.48	35.38			
AV	7.32318G	37.81	54.00	-16.19	27.91	3	Horizontal	74	1.80	-	36.79	8.48	35.37			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

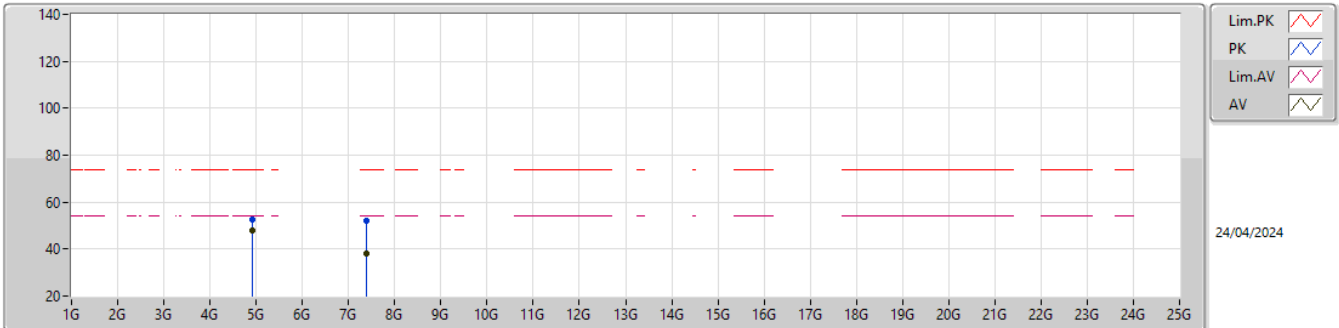


EUT_Z_2TX
Setting 99
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.461G	118.67	Inf	-Inf	86.04	3	Vertical	92	2.13	-	28.21	4.42	-			
AV	2.4612G	115.81	Inf	-Inf	83.18	3	Vertical	92	2.13	-	28.21	4.42	-			
PK	2.4835G	63.91	74.00	-10.09	31.14	3	Vertical	92	2.13	-	28.34	4.43	-			
AV	2.4835G	53.62	54.00	-0.38	20.85	3	Vertical	92	2.13	-	28.34	4.43	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

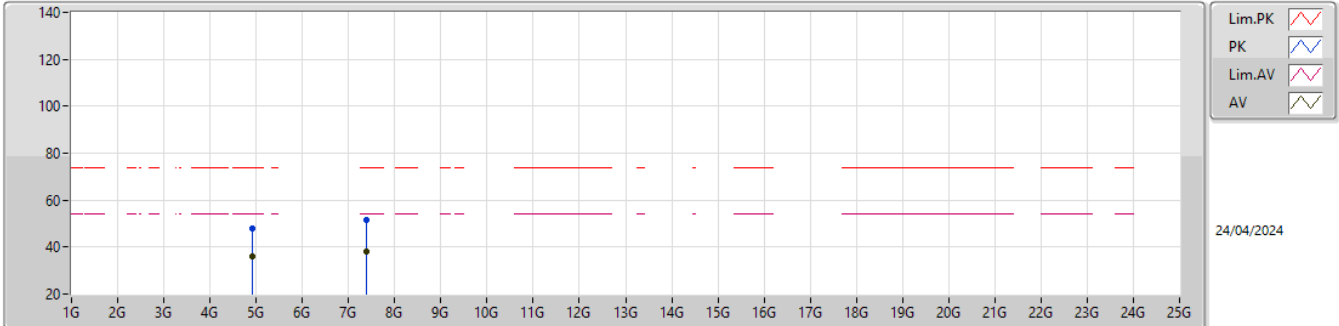


EUT_Z_2TX
Setting 99
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.924G	52.80	74.00	-21.20	47.64	3	Vertical	336	1.68	-	33.50	6.43	34.77			
AV	4.924G	48.09	54.00	-5.91	42.93	3	Vertical	336	1.68	-	33.50	6.43	34.77			
PK	7.39176G	51.99	74.00	-22.01	41.92	3	Vertical	175	1.80	-	36.90	8.50	35.33			
AV	7.40046G	38.15	54.00	-15.85	28.08	3	Vertical	175	1.80	-	36.90	8.50	35.33			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

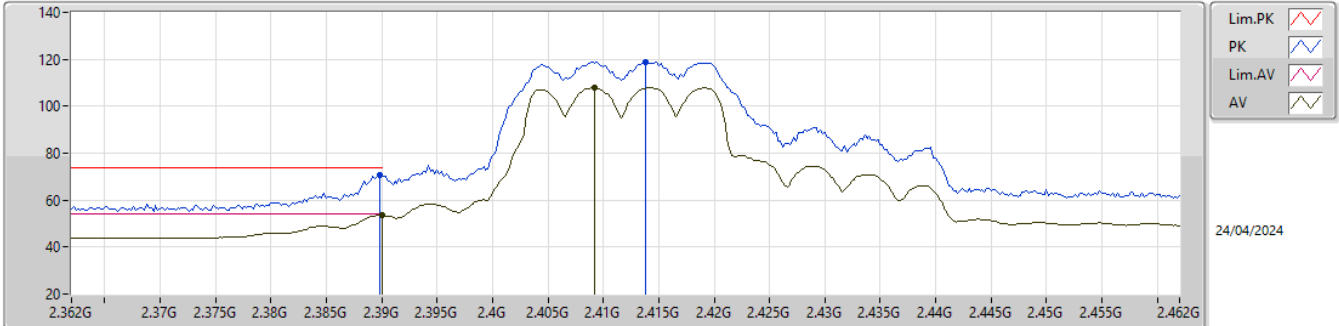


EUT_Z_2TX
Setting 99
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92382G	47.90	74.00	-26.10	42.74	3	Horizontal	194	1.80	-	33.50	6.43	34.77			
AV	4.924G	35.96	54.00	-18.04	30.80	3	Horizontal	194	1.80	-	33.50	6.43	34.77			
PK	7.39788G	51.57	74.00	-22.43	41.50	3	Horizontal	230	2.28	-	36.90	8.50	35.33			
AV	7.4001G	38.09	54.00	-15.91	28.02	3	Horizontal	230	2.28	-	36.90	8.50	35.33			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

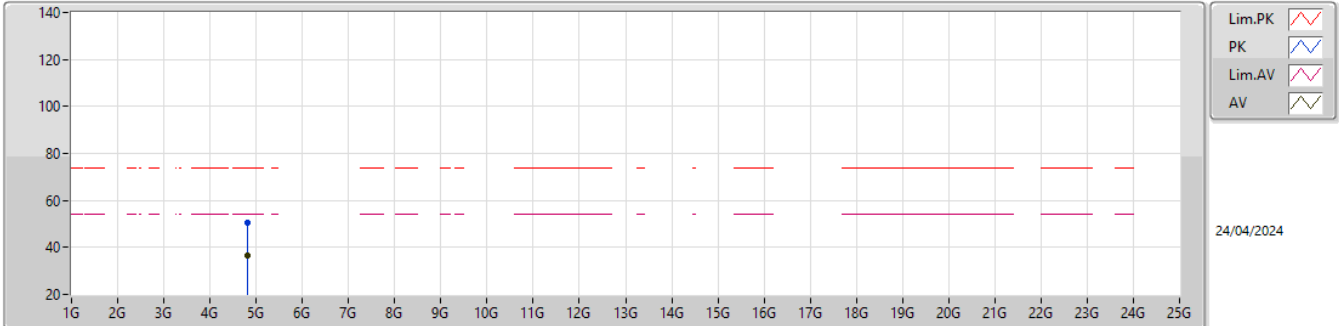


EUT_Z_2TX
Setting 95
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3898G	70.62	74.00	-3.38	37.95	3	Vertical	201	1.99	-	28.30	4.37	-			
AV	2.39G	53.45	54.00	-0.55	20.78	3	Vertical	201	1.99	-	28.30	4.37	-			
PK	2.4138G	118.89	Inf	-Inf	86.20	3	Vertical	201	1.99	-	28.30	4.39	-			
AV	2.4092G	107.89	Inf	-Inf	75.20	3	Vertical	201	1.99	-	28.30	4.39	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

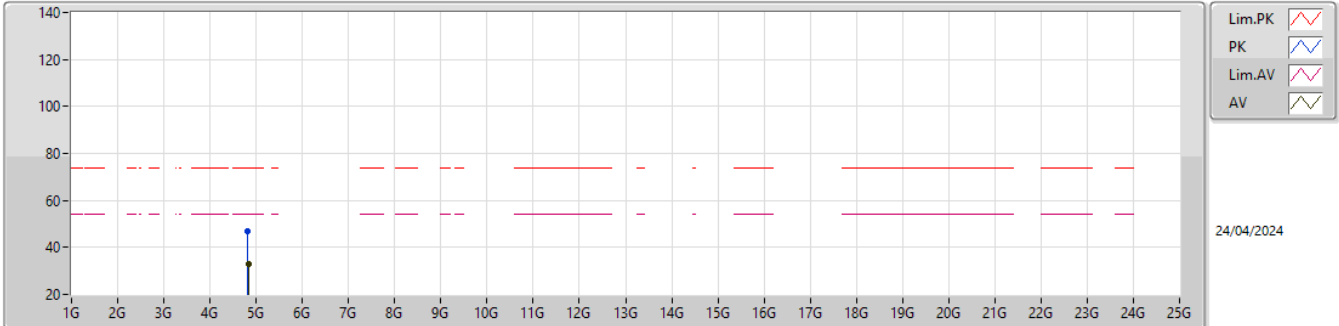


EUT_Z_2TX
Setting 95
03-S-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	4.81956G	50.65	74.00	-23.35	45.81	3	Vertical	27	1.75	-	33.24	6.29	34.69				
AV	4.82466G	36.66	54.00	-17.34	31.81	3	Vertical	27	1.75	-	33.25	6.29	34.69				

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

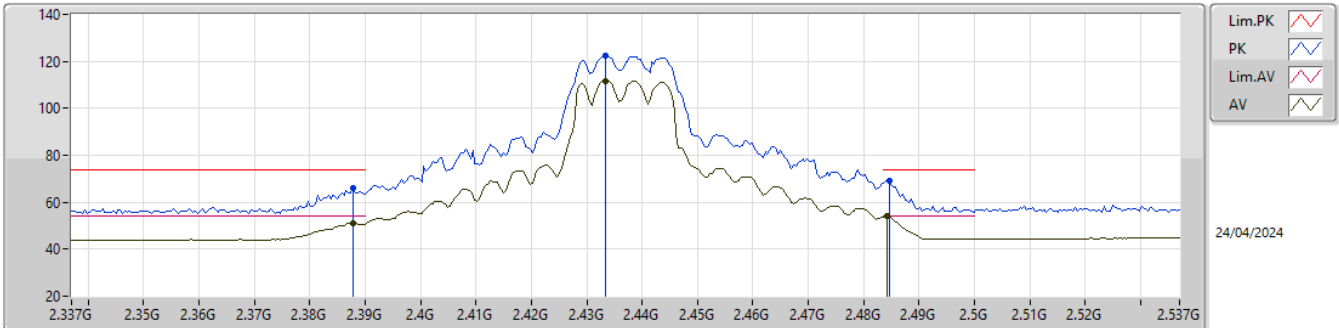


EUT_Z_2TX
Setting 95
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.81992G	46.94	74.00	-27.06	42.10	3	Horizontal	248	2.92	-	33.24	6.29	34.69			
AV	4.83888G	32.70	54.00	-21.30	27.81	3	Horizontal	248	2.92	-	33.28	6.31	34.70			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

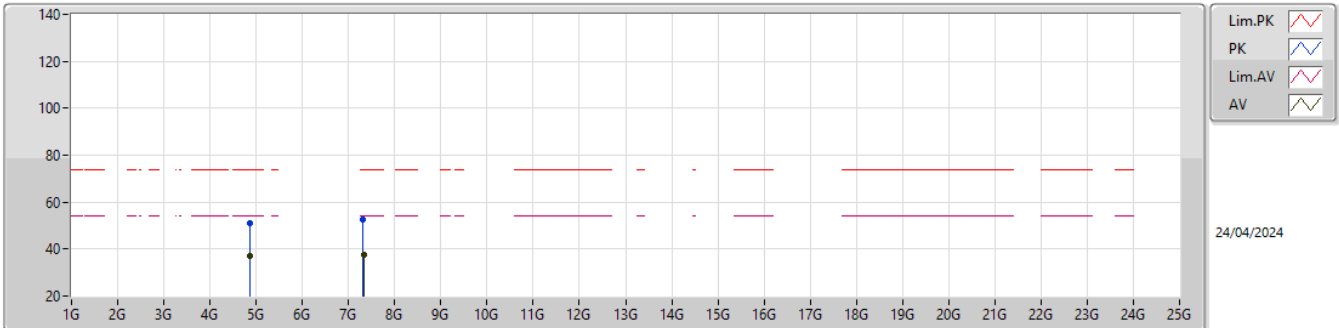


EUT_Z_2TX
Setting 105
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3878G	66.11	74.00	-7.89	33.46	3	Vertical	195	2.14	-	28.28	4.37	-				
AV	2.3878G	50.93	54.00	-3.07	18.28	3	Vertical	195	2.14	-	28.28	4.37	-				
PK	2.4334G	122.59	Inf	-Inf	89.89	3	Vertical	195	2.14	-	28.30	4.40	-				
AV	2.4334G	111.80	Inf	-Inf	79.10	3	Vertical	195	2.14	-	28.30	4.40	-				
PK	2.4846G	69.34	74.00	-4.66	36.56	3	Vertical	195	2.14	-	28.35	4.43	-				
AV	2.4842G	53.90	54.00	-0.10	21.13	3	Vertical	195	2.14	-	28.34	4.43	-				

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

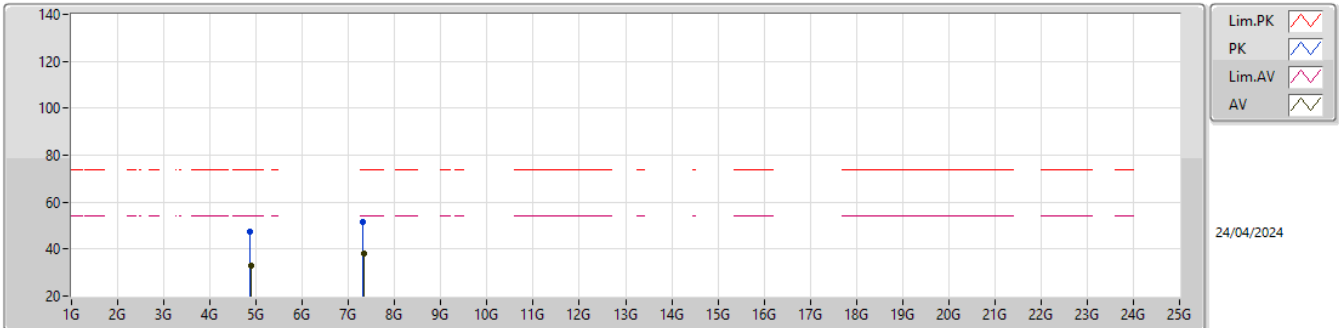


EUT_Z_2TX
Setting 105
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87622G	51.18	74.00	-22.82	46.19	3	Vertical	17	1.80	-	33.35	6.37	34.73			
AV	4.87148G	37.06	54.00	-16.94	32.09	3	Vertical	17	1.80	-	33.34	6.36	34.73			
PK	7.31118G	52.47	74.00	-21.53	42.63	3	Vertical	96	2.21	-	36.74	8.48	35.38			
AV	7.32384G	37.73	54.00	-16.27	27.82	3	Vertical	96	2.21	-	36.80	8.48	35.37			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

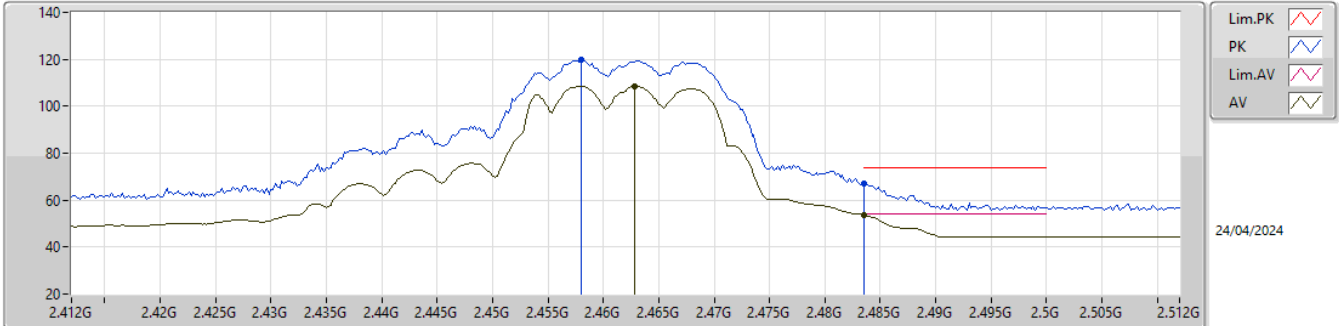


EUT_Z_2TX
Setting 105
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.86452G	47.35	74.00	-26.65	42.39	3	Horizontal	55	1.80	-	33.33	6.35	34.72			
AV	4.8618G	33.03	54.00	-20.97	28.02	3	Horizontal	55	1.80	-	33.37	6.38	34.74			
PK	7.31172G	51.70	74.00	-22.30	41.85	3	Horizontal	105	2.59	-	36.75	8.48	35.38			
AV	7.323G	37.95	54.00	-16.05	28.05	3	Horizontal	105	2.59	-	36.79	8.48	35.37			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

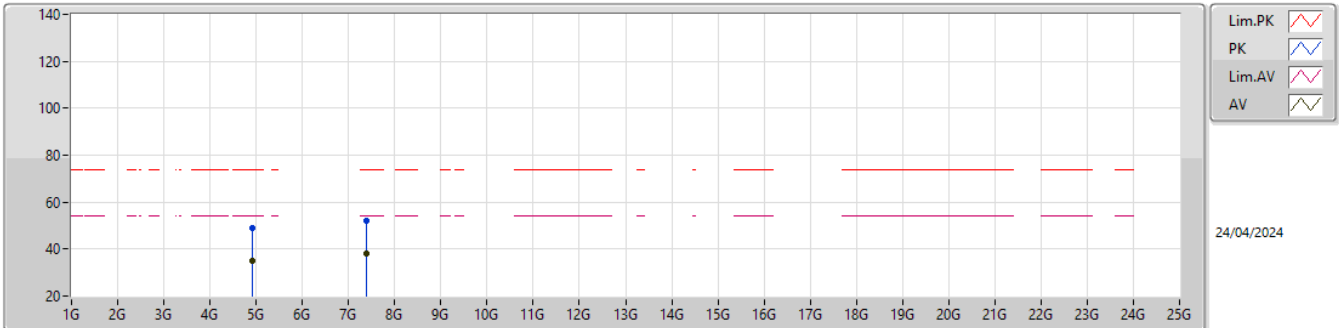


EUT_Z_2TX
Setting 94
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.458G	119.78	Inf	-Inf	87.14	3	Vertical	187	2.40	-	28.22	4.42	-			
AV	2.4628G	108.51	Inf	-Inf	75.86	3	Vertical	187	2.40	-	28.23	4.42	-			
PK	2.4835G	67.12	74.00	-6.88	34.35	3	Vertical	187	2.40	-	28.34	4.43	-			
AV	2.4835G	53.76	54.00	-0.24	20.99	3	Vertical	187	2.40	-	28.34	4.43	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

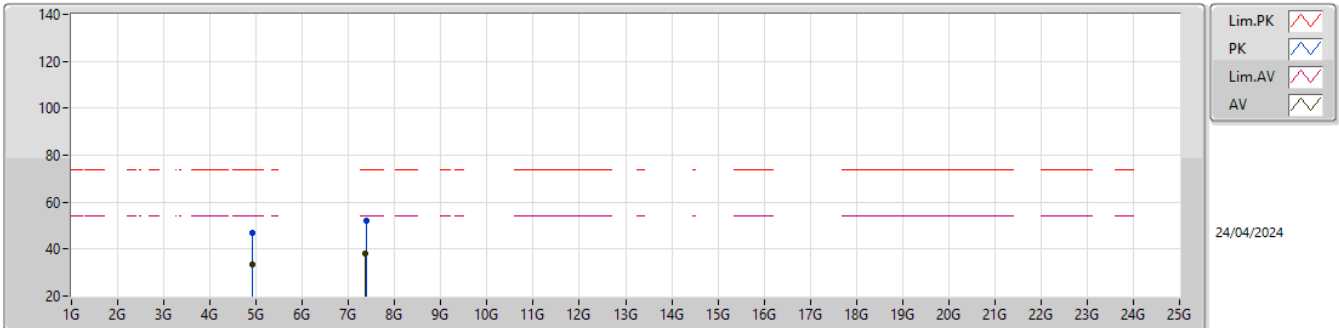


EUT_Z_2TX
Setting 94
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.924G	49.21	74.00	-24.79	44.05	3	Vertical	333	1.65	-	33.50	6.43	34.77			
AV	4.92448G	35.05	54.00	-18.95	29.89	3	Vertical	333	1.65	-	33.50	6.43	34.77			
PK	7.40016G	52.16	74.00	-21.84	42.09	3	Vertical	107	2.56	-	36.90	8.50	35.33			
AV	7.39164G	38.15	54.00	-15.85	28.08	3	Vertical	107	2.56	-	36.90	8.50	35.33			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

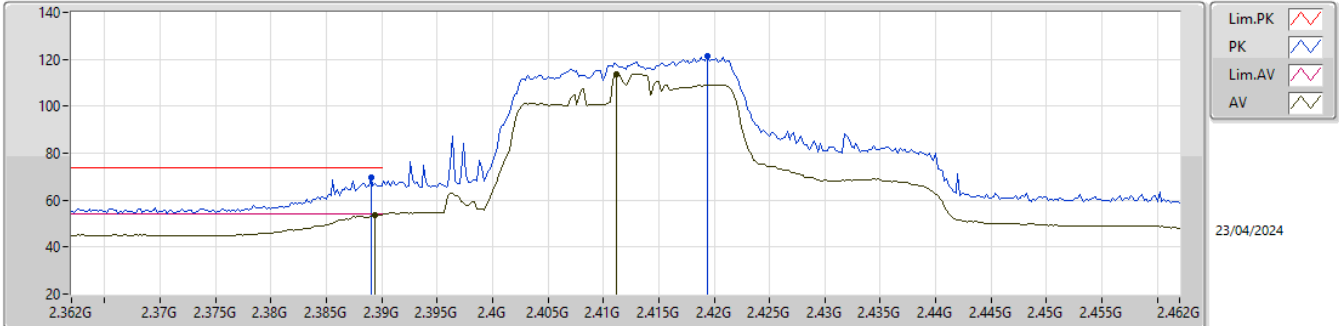


EUT_Z_2TX
Setting 94
03-S-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92124G	47.08	74.00	-26.92	41.94	3	Horizontal	215	2.44	-	33.48	6.43	34.77			
AV	4.92226G	33.36	54.00	-20.64	28.21	3	Horizontal	215	2.44	-	33.49	6.43	34.77			
PK	7.3746G	51.84	74.00	-22.16	41.79	3	Horizontal	155	2.61	-	36.90	8.49	35.34			
AV	7.37406G	38.05	54.00	-15.95	28.00	3	Horizontal	155	2.61	-	36.90	8.49	35.34			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

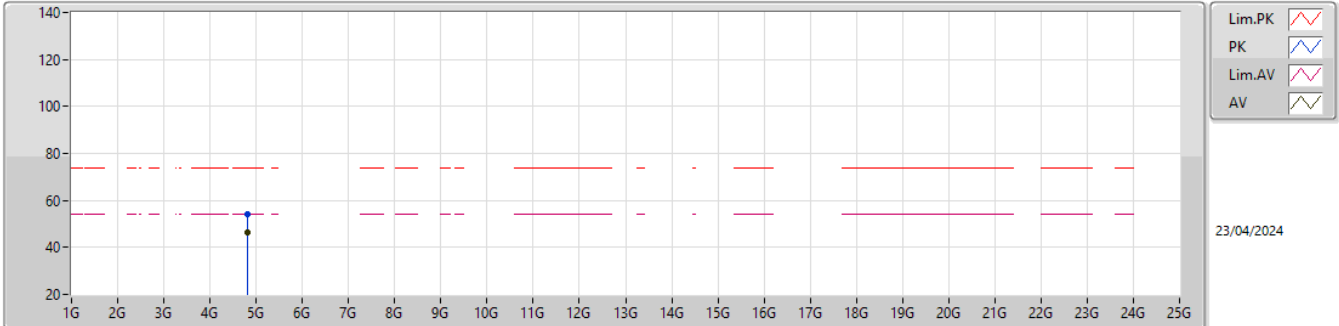


EUT_Z_4TX
Setting 94
06-D-E-2

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	2.389G	69.65	74.00	-4.35	37.24	3	Vertical	90.3	2.37	-	27.70	4.71	-			
AV	2.3894G	53.57	54.00	-0.43	21.16	3	Vertical	90.3	2.37	-	27.70	4.71	-			
PK	2.4194G	121.24	Inf	-Inf	88.90	3	Vertical	90.3	2.37	-	27.60	4.74	-			
AV	2.4112G	113.82	Inf	-Inf	81.49	3	Vertical	90.3	2.37	-	27.60	4.73	-			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

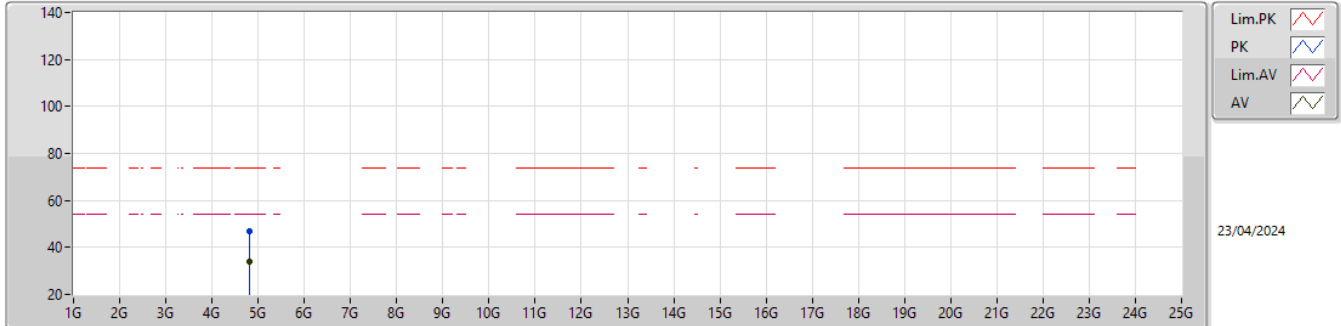


EUT_Z_4TX
Setting 94
06-D-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.824G	53.95	74.00	-20.05	47.36	3	Vertical	2	1.80	-	31.30	6.69	31.40			
AV	4.82428G	46.14	54.00	-7.86	39.55	3	Vertical	2	1.80	-	31.30	6.69	31.40			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

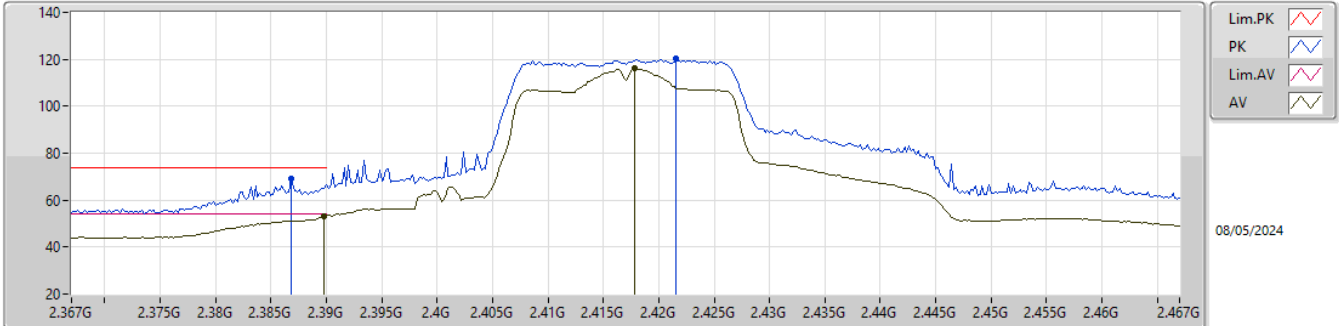


EUT_Z_4TX
Setting 94
06-D-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.81868G	46.97	74.00	-27.03	40.39	3	Horizontal	235	1.80	-	31.30	6.69	31.41			
AV	4.82408G	33.96	54.00	-20.04	27.37	3	Horizontal	235	1.80	-	31.30	6.69	31.40			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

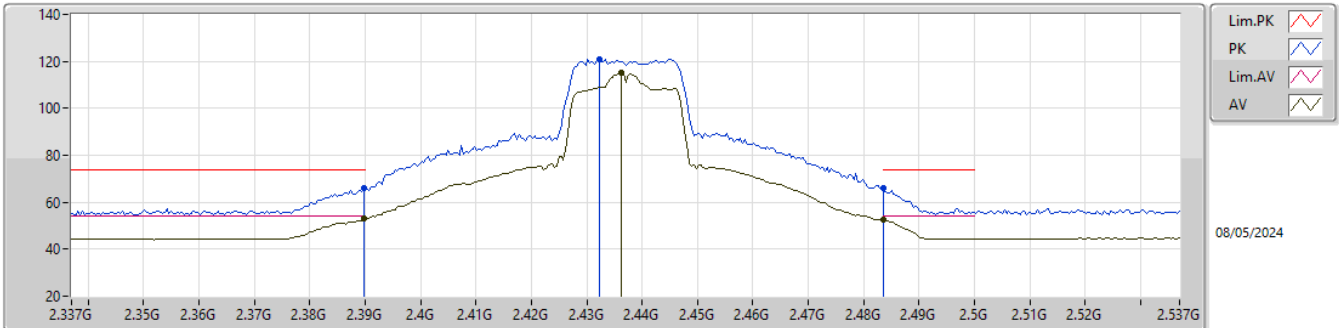


EUT_Z_2TX
Setting 98
02-C-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3868G	69.18	74.00	-4.82	37.66	3	Vertical	92	2.07	-	28.47	3.05	-			
AV	2.3898G	53.25	54.00	-0.75	21.70	3	Vertical	92	2.07	-	28.50	3.05	-			
PK	2.4216G	120.15	Inf	-Inf	88.66	3	Vertical	92	2.07	-	28.42	3.07	-			
AV	2.4178G	116.02	Inf	-Inf	84.55	3	Vertical	92	2.07	-	28.40	3.07	-			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

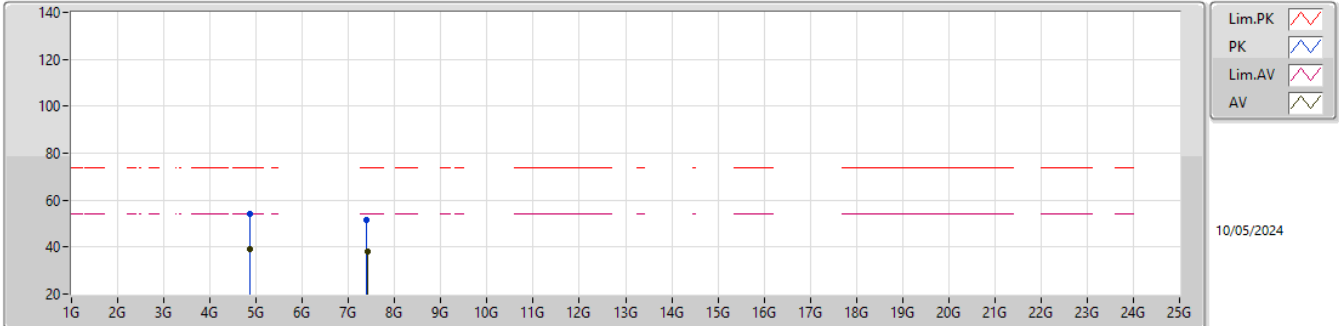


EUT_Z_2TX
Setting 106
02-C-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3898G	66.08	74.00	-7.92	34.53	3	Vertical	110	2.10	-	28.50	3.05	-			
AV	2.3898G	52.93	54.00	-1.07	21.38	3	Vertical	110	2.10	-	28.50	3.05	-			
PK	2.4322G	121.02	Inf	-Inf	89.45	3	Vertical	110	2.10	-	28.50	3.07	-			
AV	2.4362G	115.10	Inf	-Inf	83.53	3	Vertical	110	2.10	-	28.50	3.07	-			
PK	2.4835G	65.94	74.00	-8.06	34.25	3	Vertical	110	2.10	-	28.60	3.09	-			
AV	2.4835G	52.46	54.00	-1.54	20.77	3	Vertical	110	2.10	-	28.60	3.09	-			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

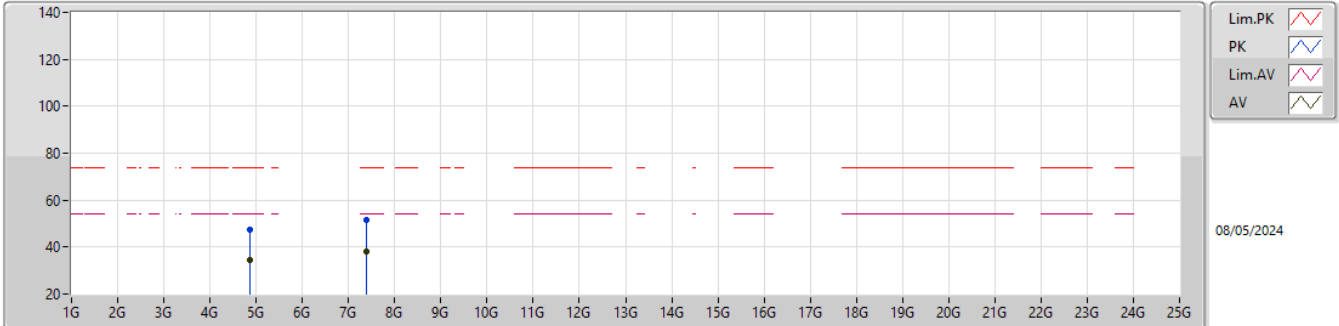


EUT_Z_2TX
Setting 106
02-C-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.874G	54.19	74.00	-19.81	46.47	3	Vertical	333	1.80	-	33.25	5.11	30.64			
AV	4.8732G	39.13	54.00	-14.87	31.41	3	Vertical	333	1.80	-	33.25	5.11	30.64			
PK	7.3878G	51.75	74.00	-22.25	40.76	3	Vertical	205	1.77	-	36.60	6.55	32.16			
AV	7.4018G	38.33	54.00	-15.67	27.34	3	Vertical	205	1.77	-	36.60	6.56	32.17			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

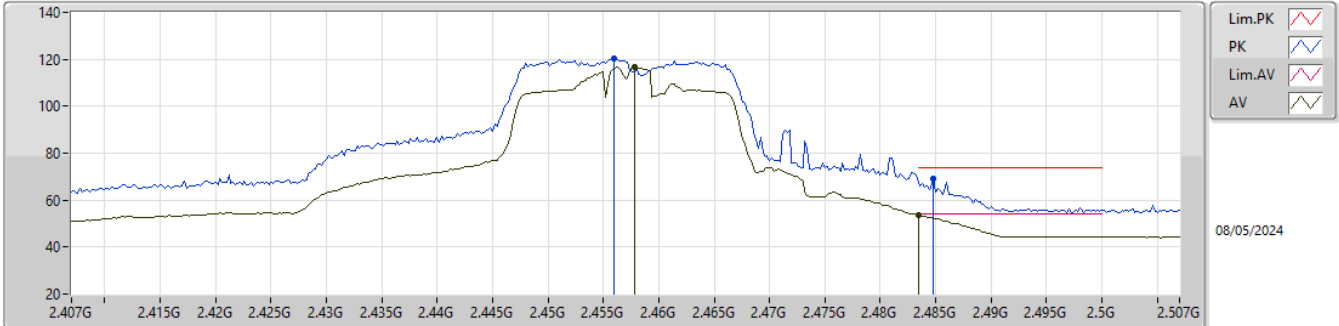


EUT_Z_2TX
Setting 106
02-C-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.8624G	47.26	74.00	-26.74	39.58	3	Horizontal	292	1.36	-	33.22	5.11	30.65				
AV	4.8632G	34.36	54.00	-19.64	26.67	3	Horizontal	292	1.36	-	33.23	5.11	30.65				
PK	7.3934G	51.55	74.00	-22.45	40.55	3	Horizontal	-0	1.22	-	36.60	6.56	32.16				
AV	7.3934G	38.29	54.00	-15.71	27.29	3	Horizontal	-0	1.22	-	36.60	6.56	32.16				

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

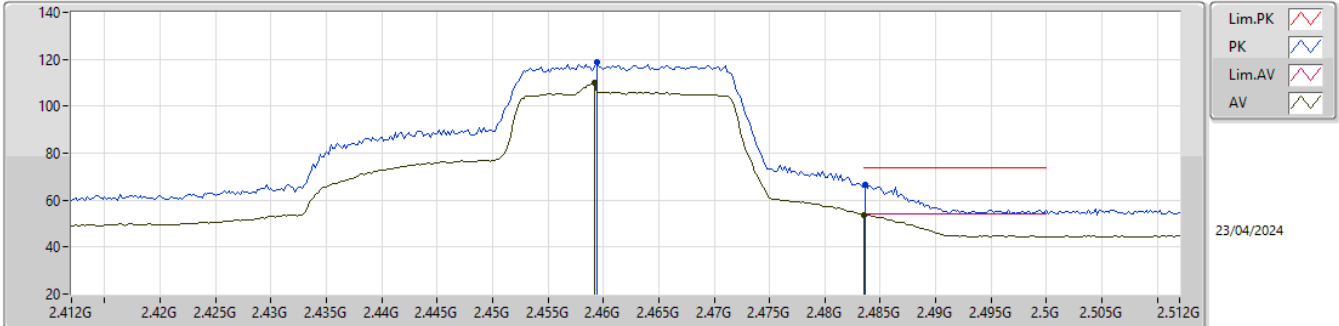


EUT_Z_2TX
Setting 104
02-C-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.456G	120.40	Inf	-Inf	88.88	3	Vertical	92	1.60	-	28.44	3.08	-			
AV	2.4578G	116.73	Inf	-Inf	85.23	3	Vertical	92	1.60	-	28.42	3.08	-			
PK	2.4848G	68.99	74.00	-5.01	37.30	3	Vertical	92	1.60	-	28.60	3.09	-			
AV	2.4835G	53.54	54.00	-0.46	21.85	3	Vertical	92	1.60	-	28.60	3.09	-			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

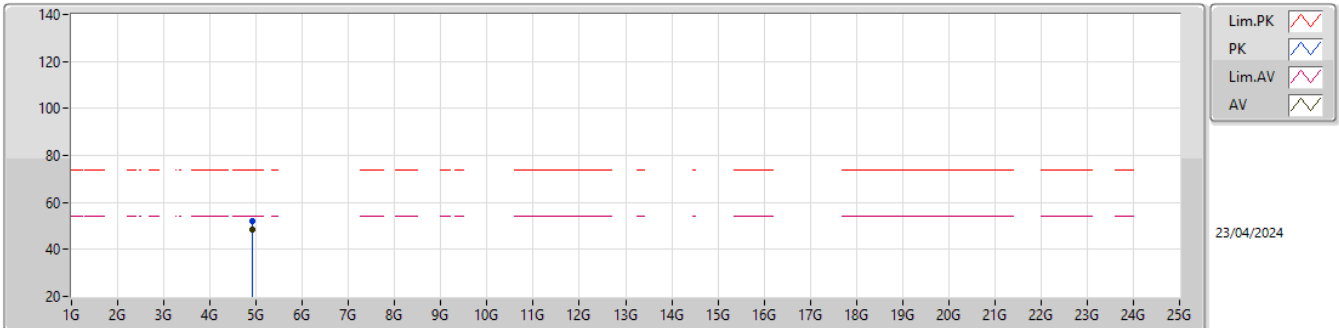


EUT_Z_4TX
Setting 90
06-D-E-2

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	2.4594G	118.58	Inf	-Inf	86.40	3	Vertical	106	1.80	-	27.41	4.77	-			
AV	2.4592G	109.93	Inf	-Inf	77.75	3	Vertical	106	1.80	-	27.41	4.77	-			
PK	2.4836G	66.79	74.00	-7.21	34.59	3	Vertical	106	1.80	-	27.40	4.80	-			
AV	2.4835G	53.73	54.00	-0.27	21.53	3	Vertical	106	1.80	-	27.40	4.80	-			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

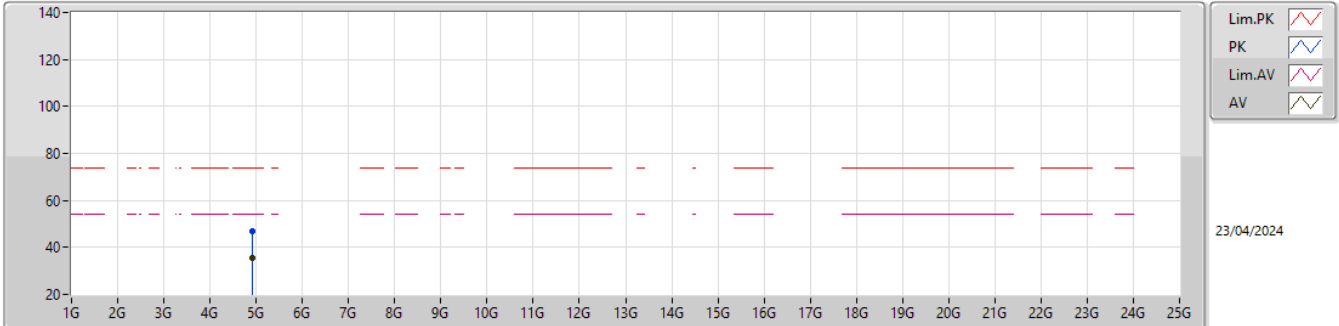


EUT_Z_4TX
Setting 90
06-D-E-2

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	4.924G	52.27	74.00	-21.73	45.42	3	Vertical	30	1.80	-	31.40	6.78	31.33			
AV	4.924G	48.51	54.00	-5.49	41.66	3	Vertical	30	1.80	-	31.40	6.78	31.33			

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

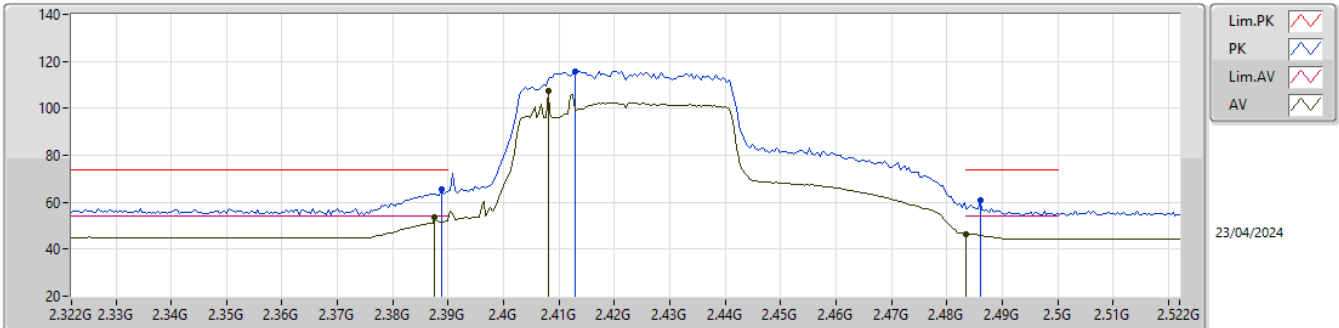


EUT_Z_4TX
Setting 90
06-D-E-2

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	4.91884G	46.87	74.00	-27.13	40.06	3	Horizontal	184.1	1.80	-	31.38	6.77	31.34			
AV	4.924G	35.38	54.00	-18.62	28.53	3	Horizontal	184.1	1.80	-	31.40	6.78	31.33			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

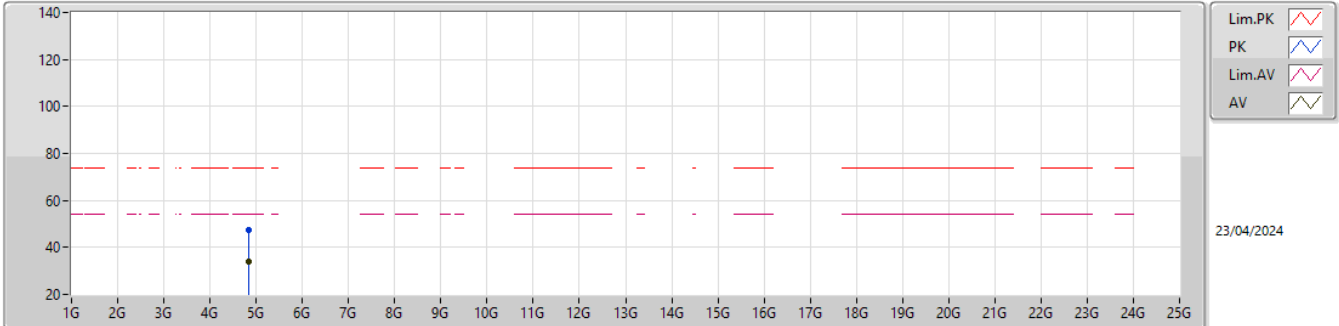


EUT_Z_4TX
Setting 88
06-D-E-2

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	65.28	74.00	-8.72	32.87	3	Vertical	89.3	2.21	-	27.70	4.71	-			
AV	2.3876G	53.52	54.00	-0.48	21.11	3	Vertical	89.3	2.21	-	27.70	4.71	-			
PK	2.4128G	115.90	Inf	-Inf	83.57	3	Vertical	89.3	2.21	-	27.60	4.73	-			
AV	2.408G	107.47	Inf	-Inf	75.12	3	Vertical	89.3	2.21	-	27.62	4.73	-			
PK	2.486G	60.75	74.00	-13.25	28.55	3	Vertical	89.3	2.21	-	27.40	4.80	-			
AV	2.4835G	46.56	54.00	-7.44	14.36	3	Vertical	89.3	2.21	-	27.40	4.80	-			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

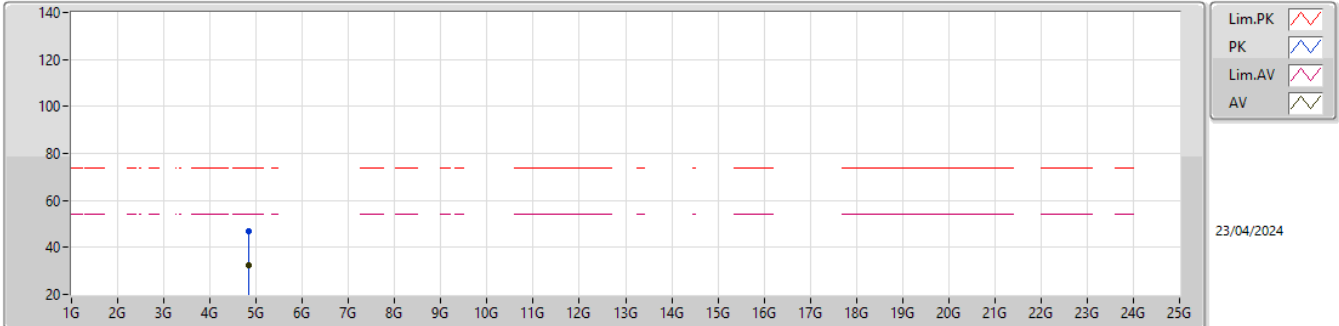


EUT_Z_4TX
Setting 88
06-D-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.84502G	47.67	74.00	-26.33	41.05	3	Vertical	28	1.80	-	31.30	6.71	31.39			
AV	4.83182G	33.92	54.00	-20.08	27.32	3	Vertical	28	1.80	-	31.30	6.70	31.40			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

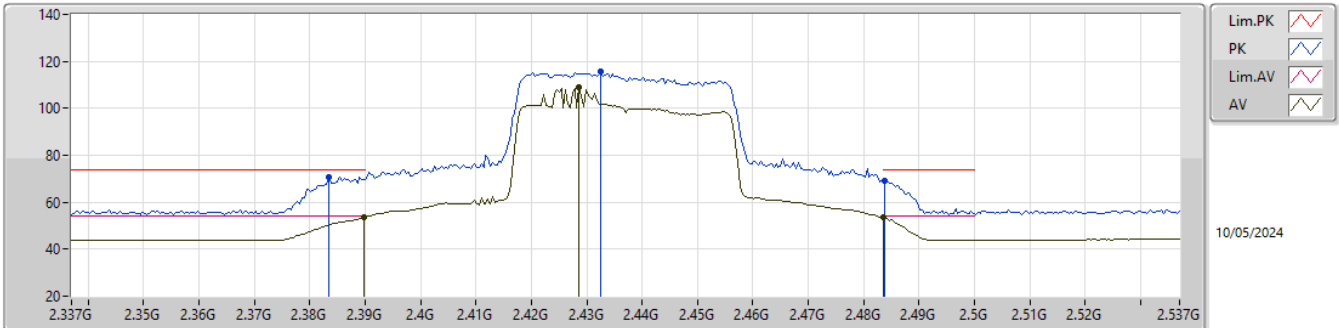


EUT_Z_4TX
Setting 88
06-D-E-2

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	4.83812G	46.67	74.00	-27.33	40.06	3	Horizontal	264.1	1.80	-	31.30	6.70	31.39			
AV	4.83986G	32.41	54.00	-21.59	25.80	3	Horizontal	264.1	1.80	-	31.30	6.70	31.39			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

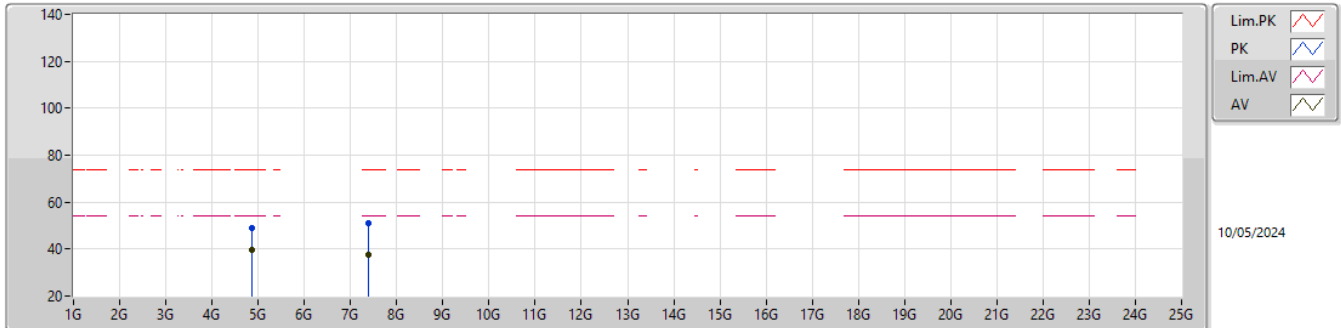


EUT_Z_4TX
Setting 88
02-C-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3834G	70.57	74.00	-3.43	39.09	3	Vertical	100	2.23	-	28.43	3.05	-			
AV	2.3898G	53.42	54.00	-0.58	21.87	3	Vertical	100	2.23	-	28.50	3.05	-			
PK	2.4326G	115.68	Inf	-Inf	84.11	3	Vertical	100	2.23	-	28.50	3.07	-			
AV	2.4286G	108.98	Inf	-Inf	77.42	3	Vertical	100	2.23	-	28.49	3.07	-			
PK	2.4838G	69.34	74.00	-4.66	37.65	3	Vertical	100	2.23	-	28.60	3.09	-			
AV	2.4835G	53.67	54.00	-0.33	21.98	3	Vertical	100	2.23	-	28.60	3.09	-			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

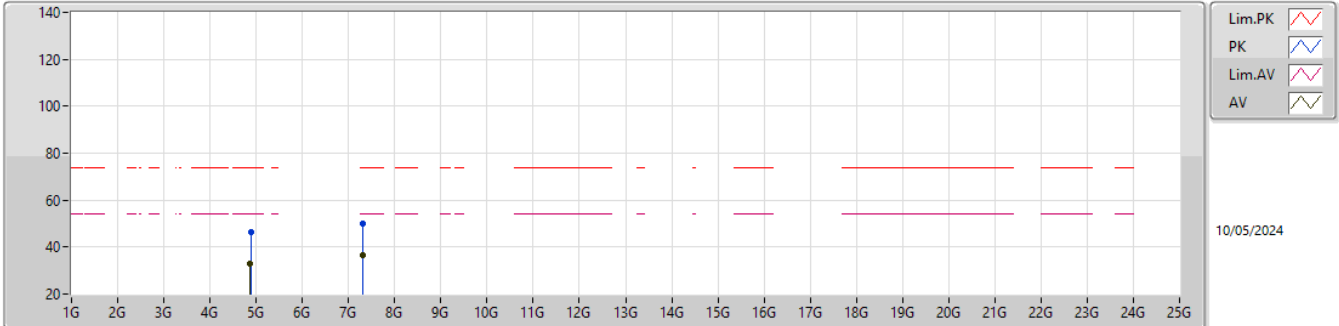


EUT_Z_4TX
Setting 88
02-C-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.854G	48.71	74.00	-25.29	41.05	3	Vertical	8	1.80	-	33.21	5.11	30.66			
AV	4.854G	39.54	54.00	-14.46	31.88	3	Vertical	8	1.80	-	33.21	5.11	30.66			
PK	7.395G	50.84	74.00	-23.16	39.84	3	Vertical	8	1.79	-	36.60	6.56	32.16			
AV	7.3878G	37.45	54.00	-16.55	26.46	3	Vertical	8	1.79	-	36.60	6.55	32.16			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

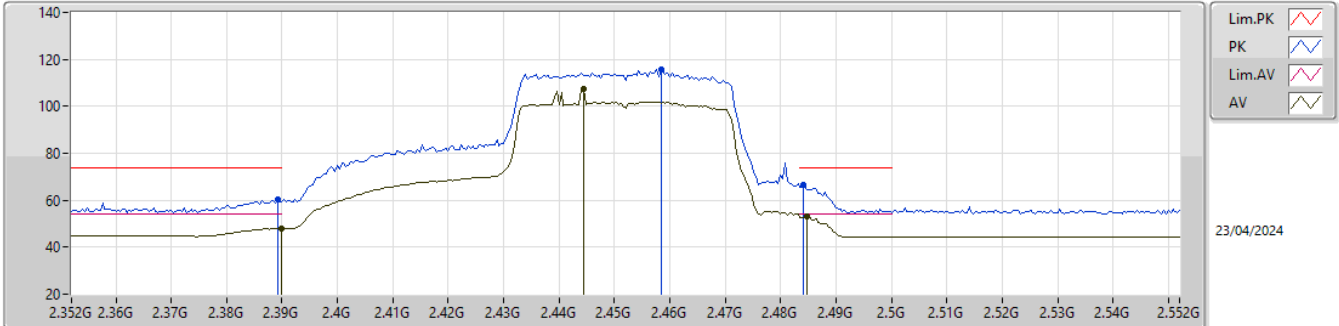


EUT_Z_4TX
Setting 88
02-C-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88138G	46.53	74.00	-27.47	38.80	3	Horizontal	194	1.50	-	33.26	5.11	30.64			
AV	4.8647G	32.87	54.00	-21.13	25.18	3	Horizontal	194	1.50	-	33.23	5.11	30.65			
PK	7.31604G	50.05	74.00	-23.95	39.20	3	Horizontal	28	2.36	-	36.46	6.51	32.12			
AV	7.31688G	36.42	54.00	-17.58	25.56	3	Horizontal	28	2.36	-	36.47	6.51	32.12			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

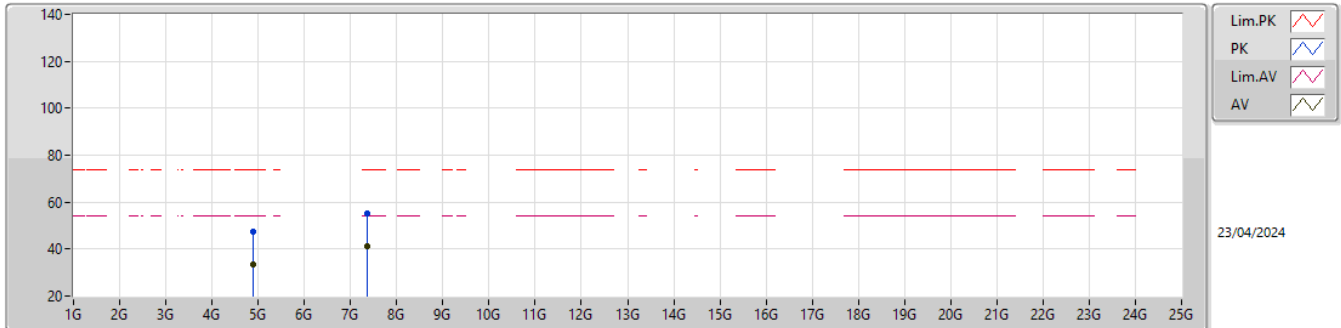


EUT_Z_4TX
Setting 88
06-D-E-2

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	2.3892G	60.22	74.00	-13.78	27.81	3	Vertical	18.5	1.57	-	27.70	4.71	-			
AV	2.39G	47.98	54.00	-6.02	15.57	3	Vertical	18.5	1.57	-	27.70	4.71	-			
PK	2.4584G	115.65	Inf	-Inf	83.46	3	Vertical	18.5	1.57	-	27.42	4.77	-			
AV	2.4444G	107.26	Inf	-Inf	75.00	3	Vertical	18.5	1.57	-	27.50	4.76	-			
PK	2.484G	66.72	74.00	-7.28	34.52	3	Vertical	18.5	1.57	-	27.40	4.80	-			
AV	2.4848G	53.27	54.00	-0.73	21.07	3	Vertical	18.5	1.57	-	27.40	4.80	-			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

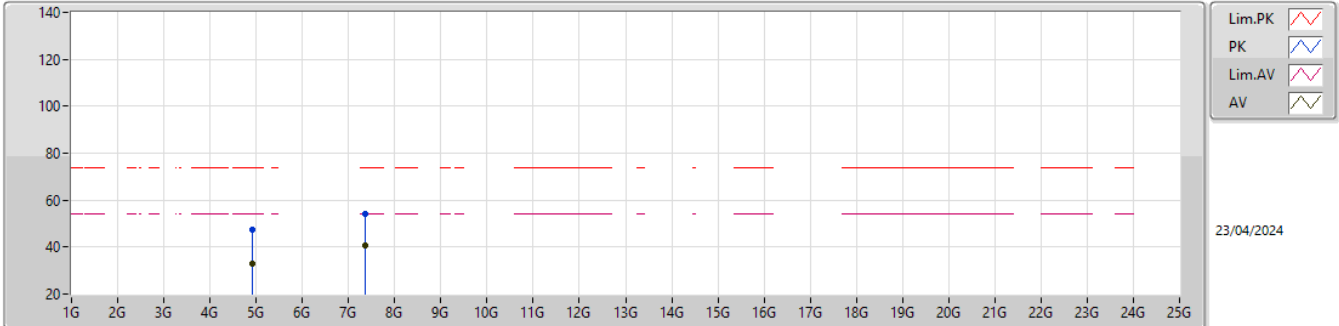


EUT_Z_4TX
Setting 88
06-D-E-2

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	4.89506G	47.53	74.00	-26.47	40.83	3	Vertical	0	1.93	-	31.30	6.75	31.35			
AV	4.89194G	33.61	54.00	-20.39	26.92	3	Vertical	0	1.93	-	31.30	6.75	31.36			
PK	7.36764G	55.36	74.00	-18.64	43.10	3	Vertical	234.1	1.80	-	36.60	8.34	32.68			
AV	7.37004G	41.09	54.00	-12.91	28.84	3	Vertical	234.1	1.80	-	36.60	8.34	32.69			

2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



EUT_Z_4TX
Setting 88
06-D-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	4.90628G	47.23	74.00	-26.77	40.49	3	Horizontal	57	1.38	-	31.33	6.76	31.35				
AV	4.91408G	33.02	54.00	-20.98	26.23	3	Horizontal	57	1.38	-	31.36	6.77	31.34				
PK	7.36644G	54.16	74.00	-19.84	41.90	3	Horizontal	2	2.72	-	36.60	8.34	32.68				
AV	7.36968G	40.85	54.00	-13.15	28.59	3	Horizontal	2	2.72	-	36.60	8.34	32.68				