



FCC Radio Test Report

FCC ID : TVE-240602
Equipment : Secured Wireless Access Point
Brand Name : FORTINET
Model Name : FortiAP 241Kxxxxxxxx, FAP-241Kxxxxxxxx, FORTIAP-241Kxxxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)
Applicant : Fortinet, Inc.
909 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer : Fortinet, Inc.
909 Kifer Road, Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 23, 2024, and testing was started from May 24, 2024 and completed on Jun. 01, 2024. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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PHOTOGRAPHS OF EUT V01



Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

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

Reviewed by: Barry Hsiao

Report Producer: Julie Tseng



1 General Description

1.1 Information

Radio 3 (Scan radio) is only RX function.

1.1.1 RF General Information

Radio 1

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]

Non-Beamforming

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	802.11be EHT20	20	2TX
2.4-2.4835GHz	802.11be EHT40	40	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11be EHT20-BF	20	2TX
2.4-2.4835GHz	802.11be EHT40-BF	40	2TX



Radio 3 < Scan >

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]

Non-Beamforming

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	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW40	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 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.
- Evaluated EHT20/EHT40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/HEW20/HEW40 mode are the same or lower than EHT20/EHT40.(Radio1)
- Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.(Radio3)

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support
1	1	EnRack	7102A1242000	PIFA	I-PEX	2.4G+5G+5.9G
2	2	EnRack	7102A1241000	PIFA	I-PEX	2.4G+5G+5.9G
3	1	EnRack	7102A1244000	PIFA	I-PEX	2.4G+5G+5.9G +6G
4	2	EnRack	7102A1243000	PIFA	I-PEX	2.4G+5G+5.9G +6G
5	1	AWAN	7102A1240000	Alford Loop	I-PEX	6G
6	2	AWAN	7102A1240000	Alford Loop	I-PEX	6G
7	1	AWAN	7102A1240000	Dipole	I-PEX	BT+Zigbee

Ant.	Port	Gain (dBi)						Remark	
		2.4G	5G	5.9G	6G	BT	Zigbee		
1	1	5.11	5.22	5.11	-	-	-	Radio1 2.4G only 2*2	Radio2 5G/5.9G 2*2
2	2	5.19	5.32	4.79	-	-	-		
3	1	4.97	5.35	5.40	5.48	-	-	Radio3 (Scan radio) 2.4G/5G/5.9G/6G 2*2	
4	2	4.69	5.43	5.13	5.37	-	-		
5	1	-	-	-	5.53	-	-	Radio2 6G 2*2	
6	2	-	-	-	5.58	-	-		
7	1	-	-	-	-	5.00	5.00	-	

Note 1: The EUT has seven antennas.

Note 2: Directional gain information

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



For 2.4GHz function:

< Radio 1 >

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

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

< Radio 3 > < Scan >

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

Ant.3 (port 1), Ant.4 (port 2) can be used as receiving.

For 5GHz function:

< Radio 2 >

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

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

< Radio 3 > < Scan >

For IEEE 802.11a/n/ac/ax mode (2RX)

Ant.3 (port 1), Ant.4 (port 2) can be used as receiving.

For 6GHz function:

< Radio 2 >

For IEEE 802.11ax/be mode (2TX/2RX)

Ant.5 (port 1), Ant.6 (port 2) could transmit/receive simultaneously.

< Radio 3 > < Scan >

For IEEE 802.11ax mode (2RX)

Ant.3 (port 1), Ant.4 (port 2) can be used as receiving.

For Bluetooth / Zigbee function:

For Bluetooth mode (1TX/1RX)

Only Ant.7 can be used as transmitting/receiving.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / PoE		
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/> Point-to-point	
Beamforming Function	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming	
Resource Unit	<input checked="" type="checkbox"/> Full RU	<input type="checkbox"/> Partial RU	
Channel Puncturing	<input type="checkbox"/> Support	<input checked="" type="checkbox"/> Not support	
Type of EUT			
<input checked="" type="checkbox"/>	Stand-alone		
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:	...	
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:	...	
<input type="checkbox"/>	Other:		

1.1.4 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss1,(1Mbps)_2TX	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g_Nss1,(6Mbps)_2TX	0.992	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT20_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT40_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)

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

Beamforming

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT40-BF_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)

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



1.1.5 Table for Multiple Listing

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

Brand Name	Model Name	Description
FORTINET	FortiAP 241Kxxxxxxxxx, FAP-241Kxxxxxxxxx, FORTIAP-241Kxxxxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	All the models are identical, the difference model for difference brand served as marketing strategy.

From the above models, model: FAP-241K was selected as representative model for the test and its data was recorded in this report.



1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Wayne Chiu	23.1~24.5°C / 52~ 56%	01/Jun/2024
RF Conducted	TH07-HY	Xun Hsieh	23.4~23.9°C / 52~55%	28/May/2024~30/May/2024
Radiated (Above 1GHz)	03CH02-HY	Simon Cheng	22.4~22.6°C / 54~57%	28/May/2024~30/May/2024
<input checked="" type="checkbox"/>	Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)		
		TEL: 886-3-327-0868		
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated (Below1GHz)	03CH24-HY	Lego Lin	22.4~22.5°C / 54~56%	24/May/2024~27/May/2024
Radiated (Co-location)	03CH26-HY	Billy Wang	22.9~23.2°C / 59~60%	28/May/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 Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	qdart_conn.win.1.0_installer_00099
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Non-Beamforming

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	23
2437MHz	23
2462MHz	23
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	22.5
2417MHz	23
2437MHz	23
2457MHz	23
2462MHz	21
802.11be EHT20_Nss1,(MCS0)_2TX	-
2412MHz	20.5
2417MHz	23
2437MHz	23
2457MHz	22
2462MHz	20.5
802.11be EHT40_Nss1,(MCS0)_2TX	-
2422MHz	21
2427MHz	21
2437MHz	21.5
2447MHz	21
2452MHz	19






Beamforming

Mode	Power Setting
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-
2412MHz	20.5
2417MHz	23
2437MHz	23
2457MHz	22
2462MHz	20.5
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-
2422MHz	21
2427MHz	21
2437MHz	21.5
2447MHz	21
2452MHz	19

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	CTX
1	Adapter Mode

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Radio 1_2.4G + Radio 2_5G + Radio 2_6E + Bluetooth
2	Radio 1_2.4G + Radio 2_5G + Radio 2_6E + Zigbee

Refer to Sporton Test Report No.: FA411229 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.



2.3 Accessories

Accessories				
BRACKET,METAL CLIP CEILING,RVAQ-AP43	Brand Name	WNC	Model Name	6B.SRVAQ.00N
BRACKET,CEILING RAIL 1	Brand Name	WNC	Model Name	3S.005AL.111
BRACKET,CEILING RAIL 2	Brand Name	WNC	Model Name	3S.005AK.111

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

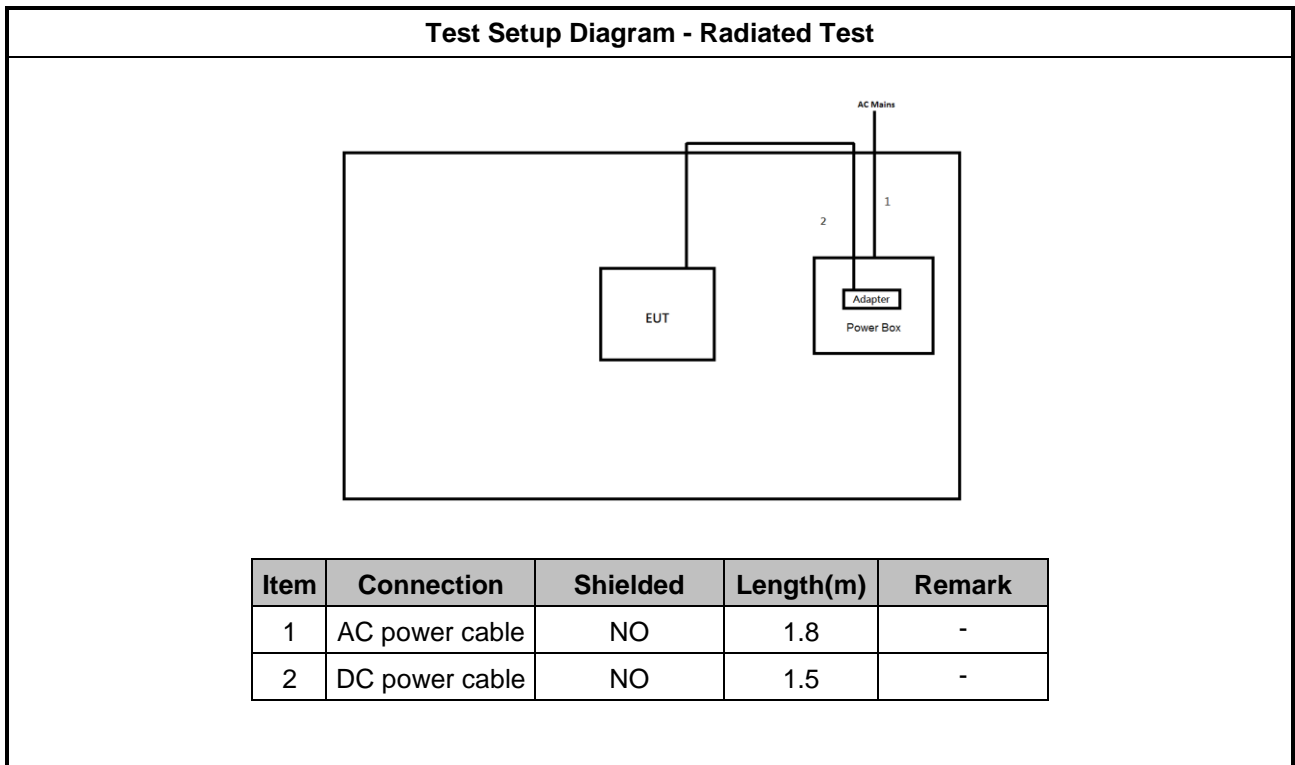
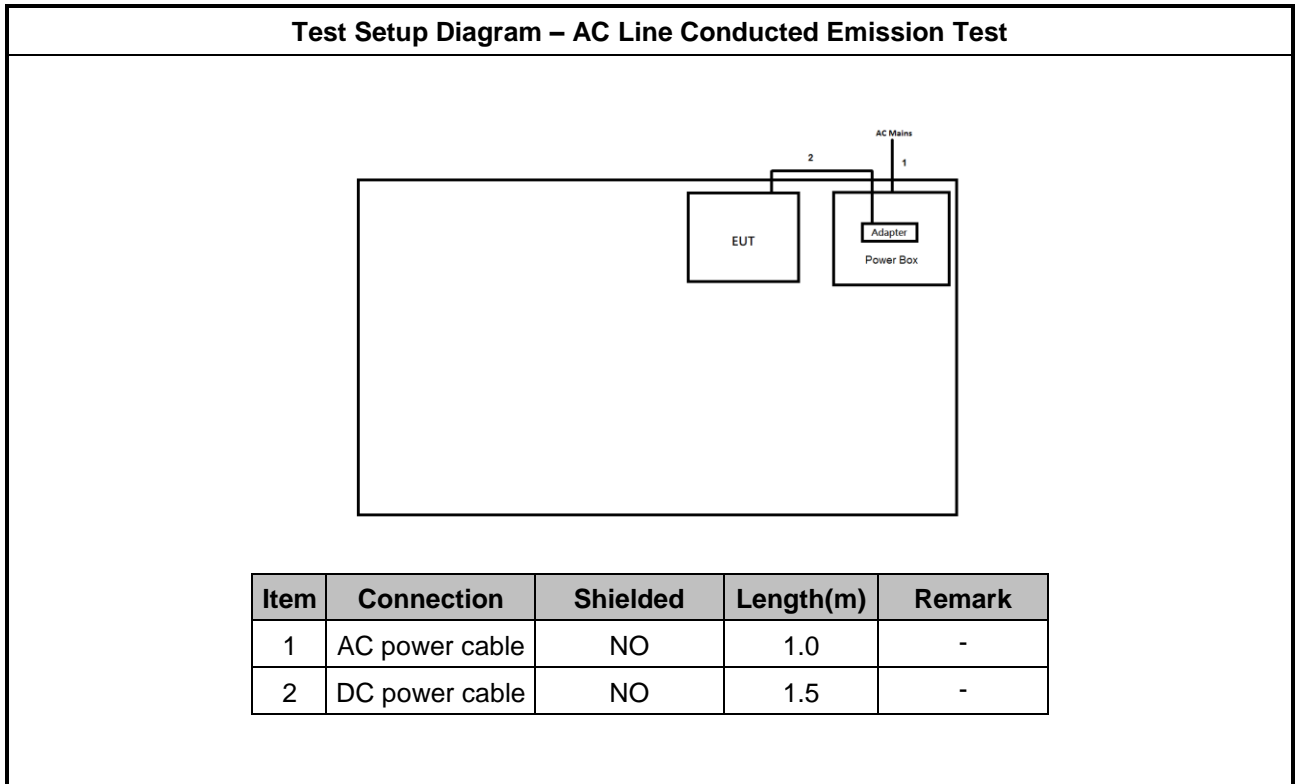
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer
2	RJ45 Cable	Power sync	CAT-6E-10	-	-
3	Notebook	Dell	P28S	-	Remote
4	AC Adapter (for NB)	HP	HSTNN-CA40	-	Remote
5	AC Power cable	PowerSync	TPCMRN0018	-	Remote

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

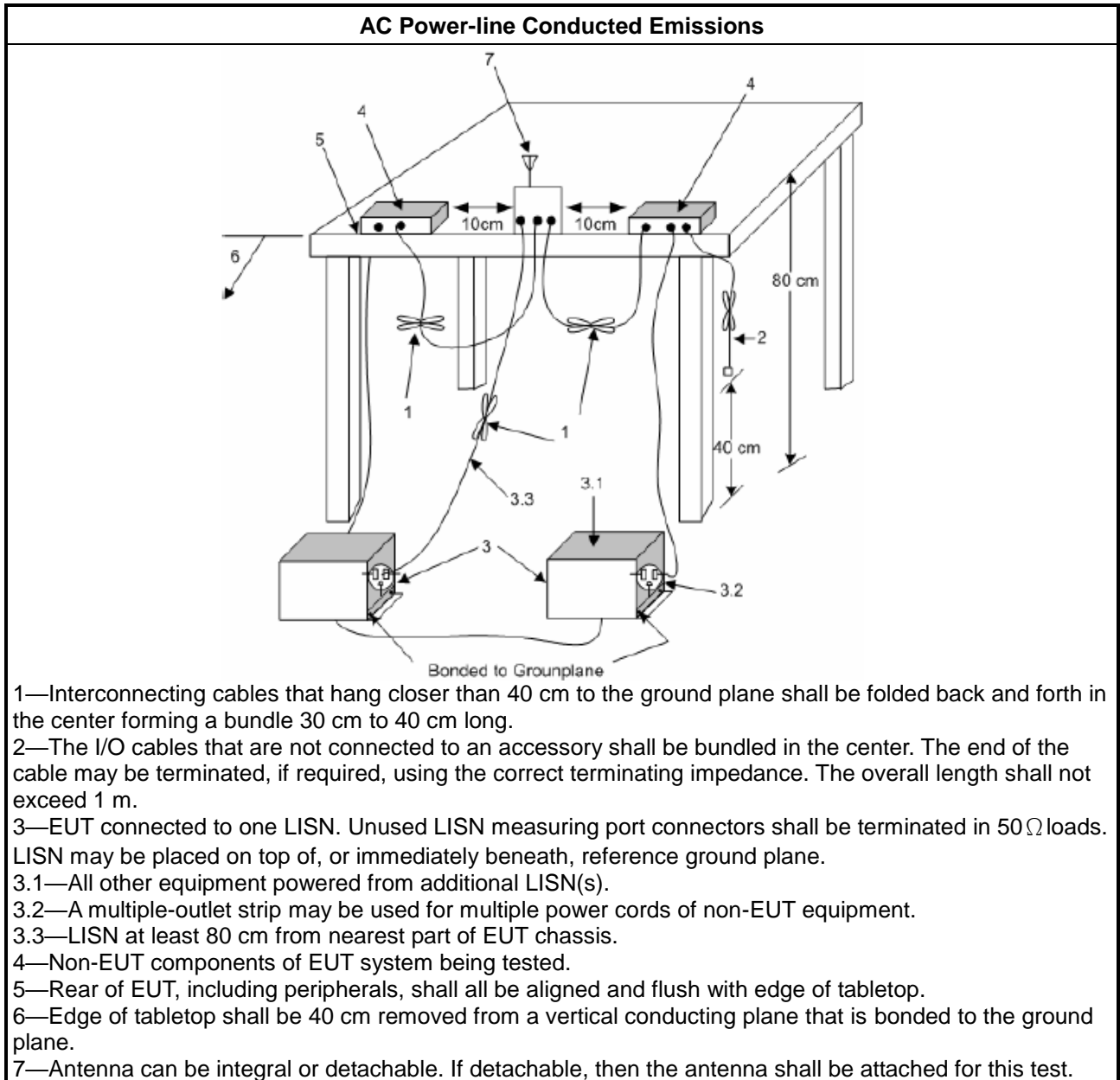
Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



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.

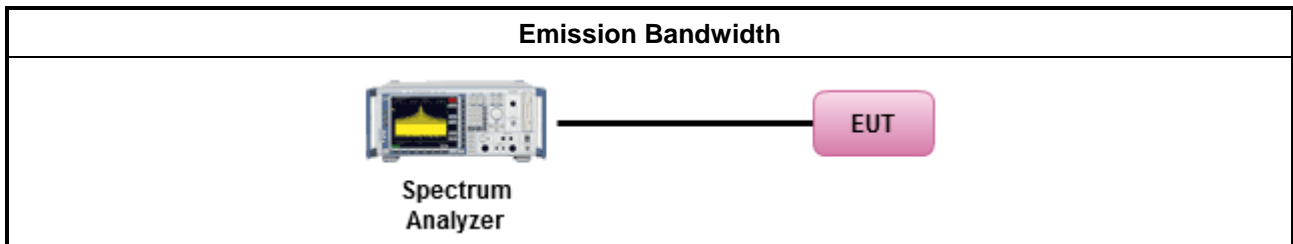
3.2.2 Measuring Instruments

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:
<input checked="" type="checkbox"/>	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

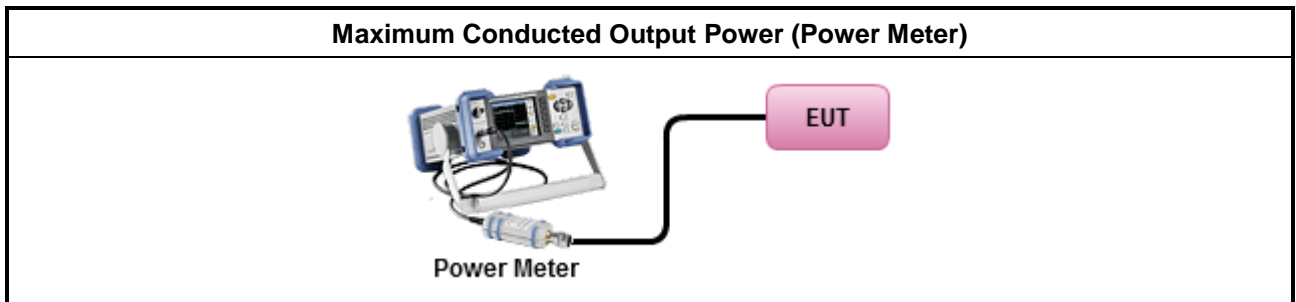
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

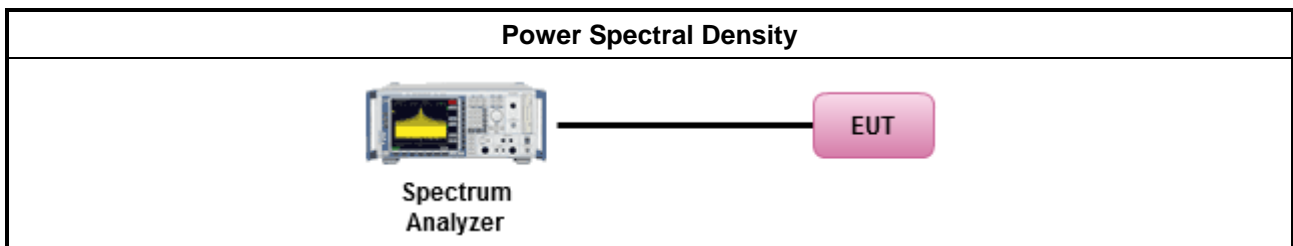
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
	<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

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

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

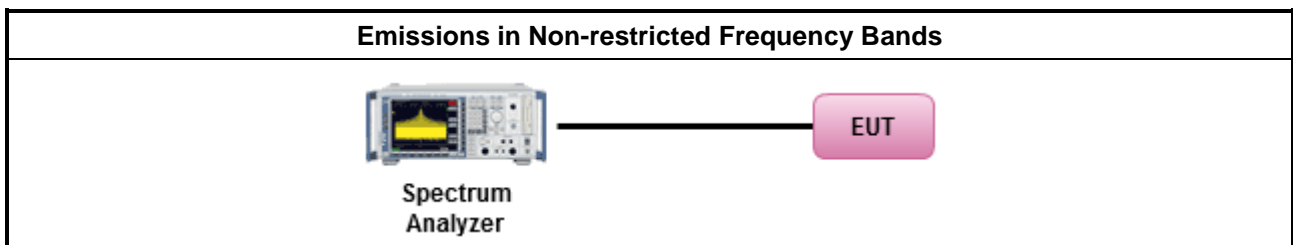
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

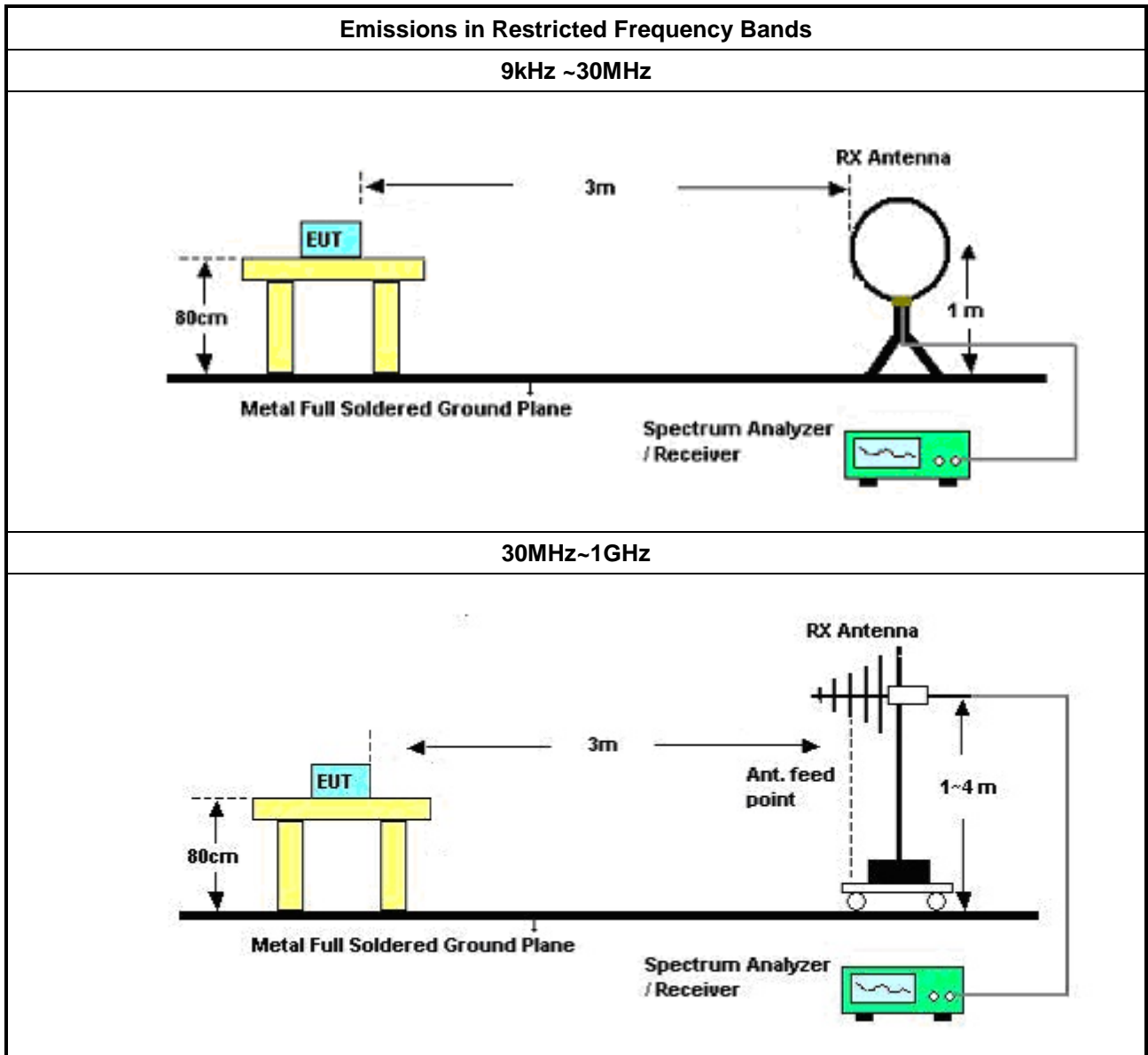
Test Method	
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	<ul style="list-style-type: none"> ▪ Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> ▪ Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> ▪ Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
	<ul style="list-style-type: none"> ▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	<ul style="list-style-type: none"> ▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	<ul style="list-style-type: none"> ▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

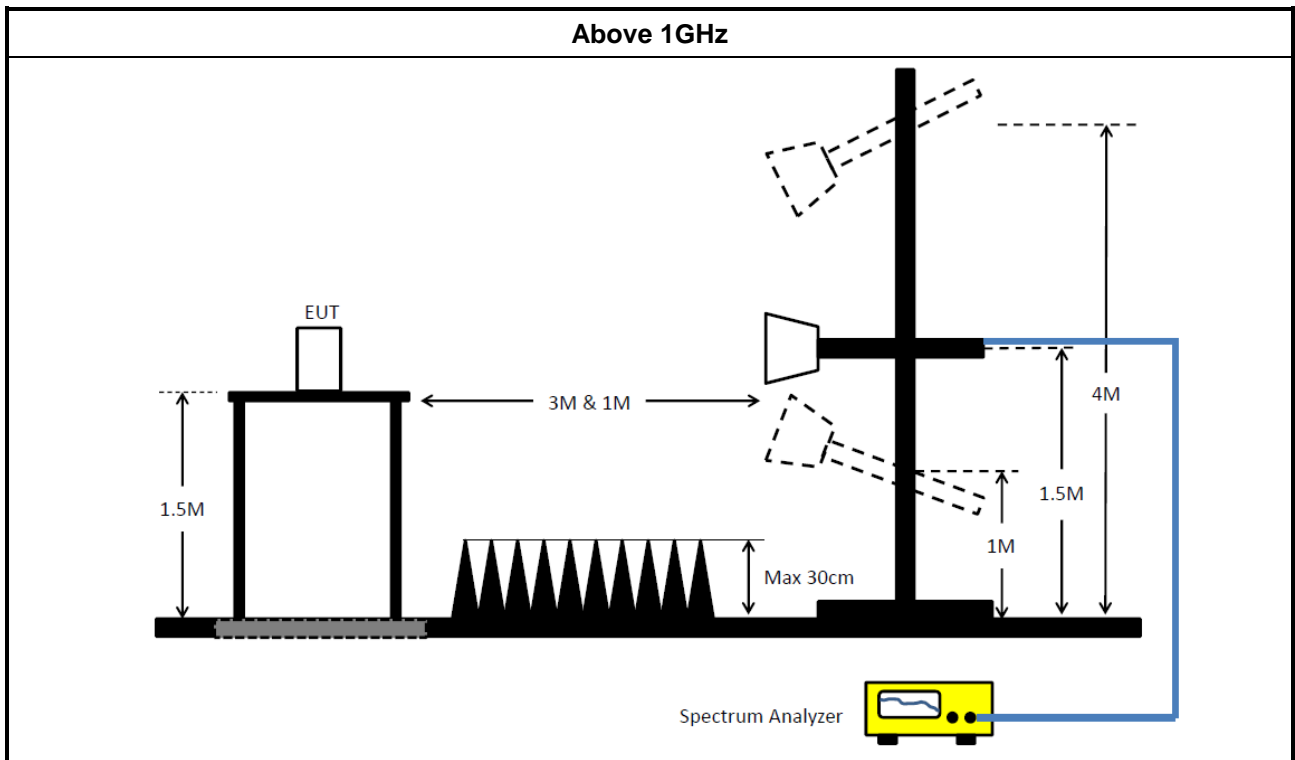
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz ~ 3.6GHz	27/Dec/2023	26/Dec/2024
LISN(Artificial Mains Network)	SCHWARZBECK	NSLK 8127	8127477	9kHz ~ 30MHz	12/Apr/2024	11/Apr/2025
Two-Line V-Network	R&S	ENV 216	101274	9kHz ~ 30MHz	18/Jun/2024	17/Jun/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	18/Oct/2023	17/Oct/2024
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	9kHz~40GHz	02/Feb/2024	01/Feb/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	15/Dec/2023	14/Dec/2024
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	15/Dec/2023	14/Dec/2024
SENSE-15247_DTS	Sporton	V5.11.18	N/A	N/A	N/A	N/A



Instrument for Radiated Test (03CH24-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	17/Aug/2023	16/Aug/2024
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	10/Aug/2023	09/Aug/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	14/Apr/2024	13/Apr/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB002	9kHz~1GHz	21/Jul/2023	20/Jul/2024
Pre-Amplifier	Agilent	8447D	2944A06292	30MHz~1GHz	18/Apr/2024	17/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.18	NA	NA	NA	NA

Instrument for Radiated Test (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	28/Jul/2023	27/Jul/2024
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	11/Mar/2024	10/Mar/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2023	22/Sep/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cabl e-01	1GHz~40GHz	15/Feb/2024	14/Feb/2025
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	24/Oct/2023	23/Oct/2024
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	15/Apr/2024	14/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.18	NA	NA	NA	NA



Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	08/Aug/2023	07/Aug/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	06/Oct/2023	05/Oct/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	12/Jul/2023	11/Jul/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	18/Oct/2023	17/Oct/2024
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	23/May/2024	22/May/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-EMI	Sporton	V5.11.3	NA	NA	NA	NA



Conducted Emissions at Powerline_Non-Beamforming_Radio 1 Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	2.256M	24.39	46.00	-21.61	Line



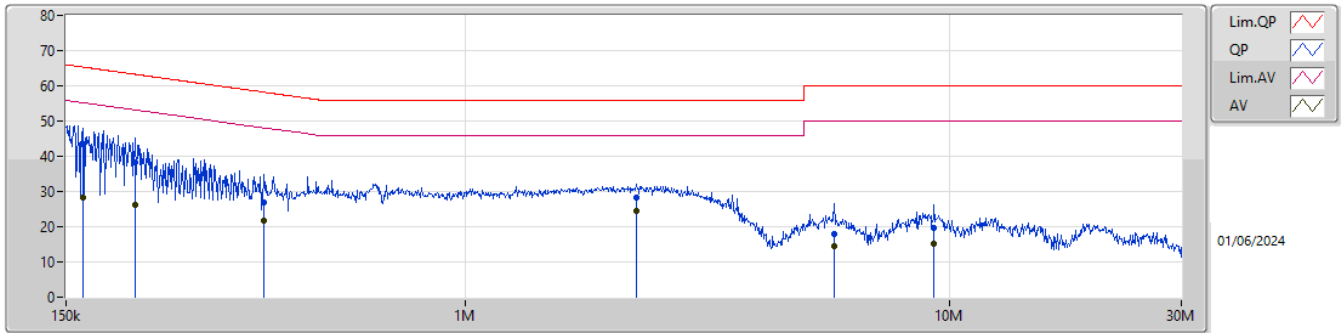
Conducted Emissions at Powerline_Non-Beamforming_Radio 1 Appendix A

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	162.467k	43.60	65.33	-21.73	Line	-
Mode 1	Pass	AV	162.467k	28.42	55.33	-26.91	Line	-
Mode 1	Pass	QP	208.925k	38.40	63.25	-24.85	Line	-
Mode 1	Pass	AV	208.925k	26.20	53.25	-27.05	Line	-
Mode 1	Pass	QP	384.811k	26.79	58.18	-31.39	Line	-
Mode 1	Pass	AV	384.811k	21.64	48.18	-26.54	Line	-
Mode 1	Pass	QP	2.256M	28.41	56.00	-27.59	Line	-
Mode 1	Pass	AV	2.256M	24.39	46.00	-21.61	Line	-
Mode 1	Pass	QP	5.764M	17.92	60.00	-42.08	Line	-
Mode 1	Pass	AV	5.764M	14.54	50.00	-35.46	Line	-
Mode 1	Pass	QP	9.269M	19.75	60.00	-40.25	Line	-
Mode 1	Pass	AV	9.269M	15.13	50.00	-34.87	Line	-
Mode 1	Pass	QP	162.467k	43.48	65.33	-21.85	Neutral	-
Mode 1	Pass	AV	162.467k	27.80	55.33	-27.53	Neutral	-
Mode 1	Pass	QP	229.015k	35.71	62.48	-26.77	Neutral	-
Mode 1	Pass	AV	229.015k	23.74	52.48	-28.74	Neutral	-
Mode 1	Pass	QP	368.279k	26.35	58.54	-32.19	Neutral	-
Mode 1	Pass	AV	368.279k	20.72	48.54	-27.82	Neutral	-
Mode 1	Pass	QP	2.424M	27.92	56.00	-28.08	Neutral	-
Mode 1	Pass	AV	2.424M	23.99	46.00	-22.01	Neutral	-
Mode 1	Pass	QP	12.111M	20.64	60.00	-39.36	Neutral	-
Mode 1	Pass	AV	12.111M	16.92	50.00	-33.08	Neutral	-
Mode 1	Pass	QP	19.167M	21.98	60.00	-38.02	Neutral	-
Mode 1	Pass	AV	19.167M	17.99	50.00	-32.01	Neutral	-

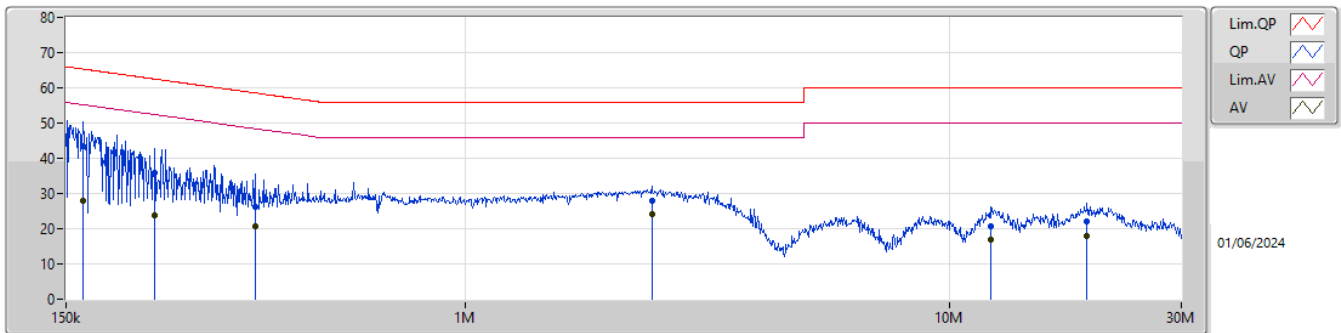


Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	162.467k	43.60	65.33	-21.73	9.85	Line	-	33.75	0.04	0.07	9.74
AV	162.467k	28.42	55.33	-26.91	9.85	Line	-	18.57	0.04	0.07	9.74
QP	208.925k	38.40	63.25	-24.85	9.82	Line	-	28.58	0.04	0.09	9.69
AV	208.925k	26.20	53.25	-27.05	9.82	Line	-	16.38	0.04	0.09	9.69
QP	384.811k	26.79	58.18	-31.39	9.93	Line	-	16.86	0.05	0.12	9.76
AV	384.811k	21.64	48.18	-26.54	9.93	Line	-	11.71	0.05	0.12	9.76
QP	2.256M	28.41	56.00	-27.59	9.98	Line	-	18.43	0.08	0.10	9.80
AV	2.256M	24.39	46.00	-21.61	9.98	Line	-	14.41	0.08	0.10	9.80
QP	5.764M	17.92	60.00	-42.08	9.99	Line	-	7.93	0.14	0.06	9.79
AV	5.764M	14.54	50.00	-35.46	9.99	Line	-	4.55	0.14	0.06	9.79
QP	9.269M	19.75	60.00	-40.25	10.04	Line	-	9.71	0.20	0.05	9.79
AV	9.269M	15.13	50.00	-34.87	10.04	Line	-	5.09	0.20	0.05	9.79

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	162.467k	43.48	65.33	-21.85	9.87	Neutral	-	33.61	0.06	0.07	9.74
AV	162.467k	27.80	55.33	-27.53	9.87	Neutral	-	17.93	0.06	0.07	9.74
QP	229.015k	35.71	62.48	-26.77	9.86	Neutral	-	25.85	0.06	0.10	9.70
AV	229.015k	23.74	52.48	-28.74	9.86	Neutral	-	13.88	0.06	0.10	9.70
QP	368.279k	26.35	58.54	-32.19	9.94	Neutral	-	16.41	0.07	0.12	9.75
AV	368.279k	20.72	48.54	-27.82	9.94	Neutral	-	10.78	0.07	0.12	9.75
QP	2.424M	27.92	56.00	-28.08	10.00	Neutral	-	17.92	0.10	0.10	9.80
AV	2.424M	23.99	46.00	-22.01	10.00	Neutral	-	13.99	0.10	0.10	9.80
QP	12.111M	20.64	60.00	-39.36	10.18	Neutral	-	10.46	0.30	0.07	9.81
AV	12.111M	16.92	50.00	-33.08	10.18	Neutral	-	6.74	0.30	0.07	9.81
QP	19.167M	21.98	60.00	-38.02	10.33	Neutral	-	11.65	0.38	0.12	9.83
AV	19.167M	17.99	50.00	-32.01	10.33	Neutral	-	7.66	0.38	0.12	9.83



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.6M	13.088M	13M1G1D	6.1M	12.772M
802.11g_Nss1,(6Mbps)_2TX	16.325M	16.549M	16M5D1D	10.95M	16.29M
802.11be EHT20_Nss1,(MCS0)_2TX	19.15M	18.973M	19M0D1D	10.025M	18.639M
802.11be EHT40_Nss1,(MCS0)_2TX	36.15M	37.94M	37M9D1D	11.6M	37.484M

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	6.1M	12.983M	8.6M	12.798M
2437MHz	Pass	500k	8.1M	12.837M	7.075M	13.088M
2462MHz	Pass	500k	6.8M	13.04M	7.55M	12.772M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.05M	16.395M	16.325M	16.549M
2437MHz	Pass	500k	15.65M	16.309M	10.95M	16.458M
2462MHz	Pass	500k	15.05M	16.29M	16.1M	16.369M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	14.125M	18.973M	10.025M	18.639M
2437MHz	Pass	500k	19.15M	18.934M	10.375M	18.852M
2462MHz	Pass	500k	18.85M	18.908M	17.5M	18.848M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.15M	37.594M	35.65M	37.726M
2437MHz	Pass	500k	34.1M	37.484M	11.6M	37.696M
2452MHz	Pass	500k	26.95M	37.94M	35.7M	37.695M

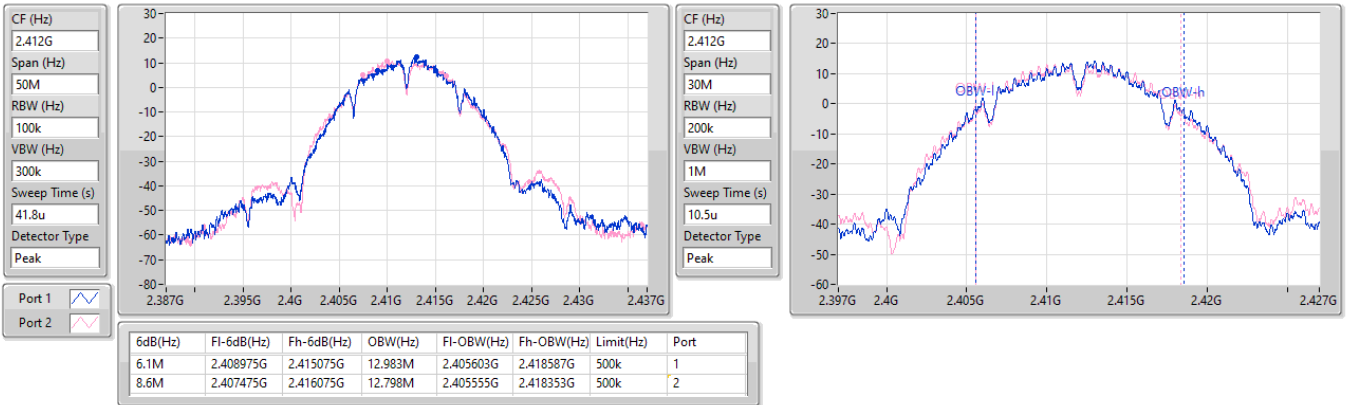
Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2412MHz

30/05/2024

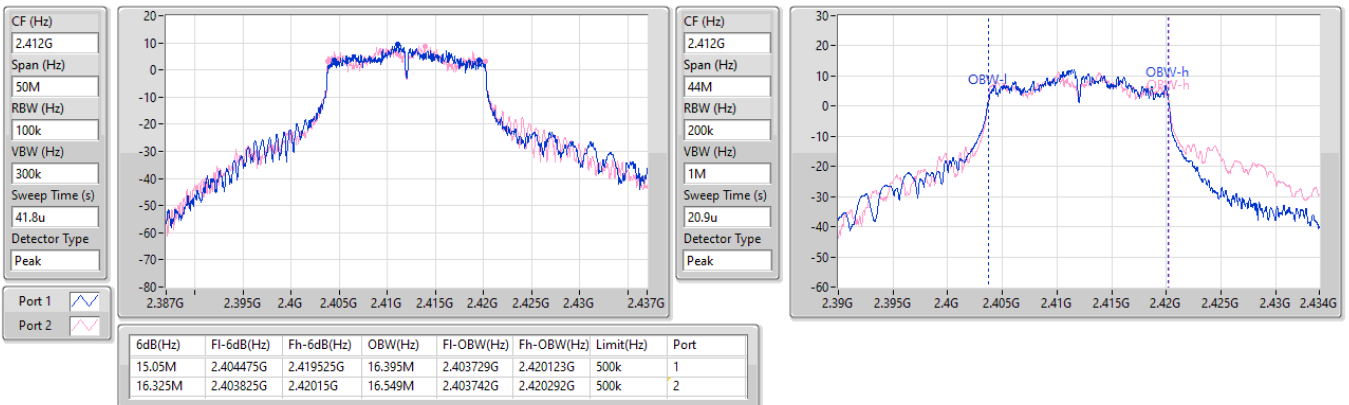


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

30/05/2024



2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

2437MHz

30/05/2024

CF (Hz)
2.437G

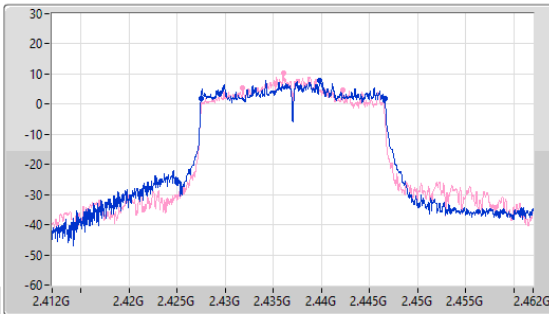
Span (Hz)
50M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
2.437G

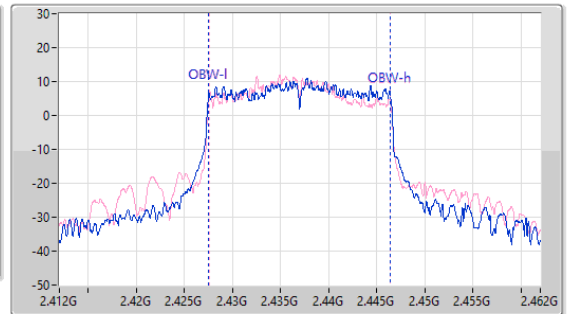
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.15M	2.42745G	2.4466G	18.934M	2.427509G	2.446443G	500k	1
10.375M	2.431825G	2.4422G	18.852M	2.42755G	2.446402G	500k	2

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

2422MHz

30/05/2024

CF (Hz)
2.422G

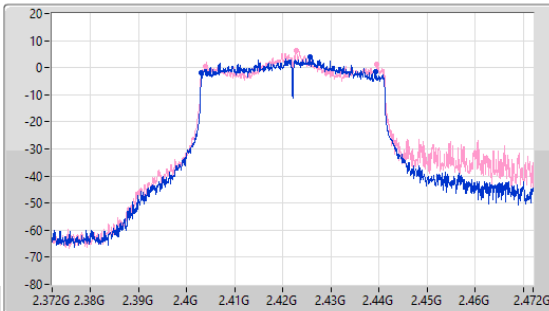
Span (Hz)
100M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep Time (s)
62.7u

Detector Type
Peak



CF (Hz)
2.422G

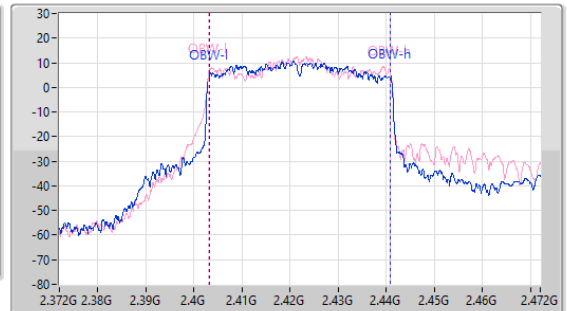
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.15M	2.403G	2.43915G	37.594M	2.403211G	2.440805G	500k	1
35.65M	2.4039G	2.43955G	37.726M	2.403089G	2.440815G	500k	2



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.35	0.34277
802.11g_Nss1,(6Mbps)_2TX	25.52	0.35645
802.11be EHT20_Nss1,(MCS0)_2TX	25.36	0.34356
802.11be EHT40_Nss1,(MCS0)_2TX	24.28	0.26792



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.19	22.47	22.12	25.31	30.00
2437MHz	Pass	5.19	22.47	22.20	25.35	30.00
2462MHz	Pass	5.19	22.35	22.19	25.28	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.19	22.10	21.92	25.02	30.00
2417MHz	Pass	5.19	22.72	22.28	25.52	30.00
2437MHz	Pass	5.19	22.64	22.30	25.48	30.00
2457MHz	Pass	5.19	22.55	22.27	25.42	30.00
2462MHz	Pass	5.19	20.67	20.50	23.60	30.00
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.19	19.91	20.14	23.04	30.00
2417MHz	Pass	5.19	22.06	22.62	25.36	30.00
2437MHz	Pass	5.19	22.17	22.52	25.36	30.00
2457MHz	Pass	5.19	21.71	20.88	24.33	30.00
2462MHz	Pass	5.19	19.69	19.96	22.84	30.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.19	20.69	20.98	23.85	30.00
2427MHz	Pass	5.19	21.06	20.24	23.68	30.00
2437MHz	Pass	5.19	21.32	21.21	24.28	30.00
2447MHz	Pass	5.19	20.73	20.84	23.80	30.00
2452MHz	Pass	5.19	19.06	18.72	21.90	30.00

DG = Directional Gain; Port X = Port X output power;
 Inf = There's no restriction for the limit.



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	25.35	0.34277
802.11be EHT40-BF_Nss1,(MCS0)_2TX	24.24	0.26546



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.16	19.89	20.12	23.02	27.84
2417MHz	Pass	8.16	22.05	22.61	25.35	27.84
2437MHz	Pass	8.16	22.15	22.50	25.34	27.84
2457MHz	Pass	8.16	21.70	20.87	24.32	27.84
2462MHz	Pass	8.16	19.64	19.91	22.79	27.84
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	8.16	20.68	20.97	23.84	27.84
2427MHz	Pass	8.16	21.05	20.23	23.67	27.84
2437MHz	Pass	8.16	21.28	21.17	24.24	27.84
2447MHz	Pass	8.16	20.70	20.81	23.77	27.84
2452MHz	Pass	8.16	19.03	18.69	21.87	27.84

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	2.60
802.11g_Nss1,(6Mbps)_2TX	-1.43
802.11be EHT20_Nss1,(MCS0)_2TX	-1.76
802.11be EHT40_Nss1,(MCS0)_2TX	-5.89

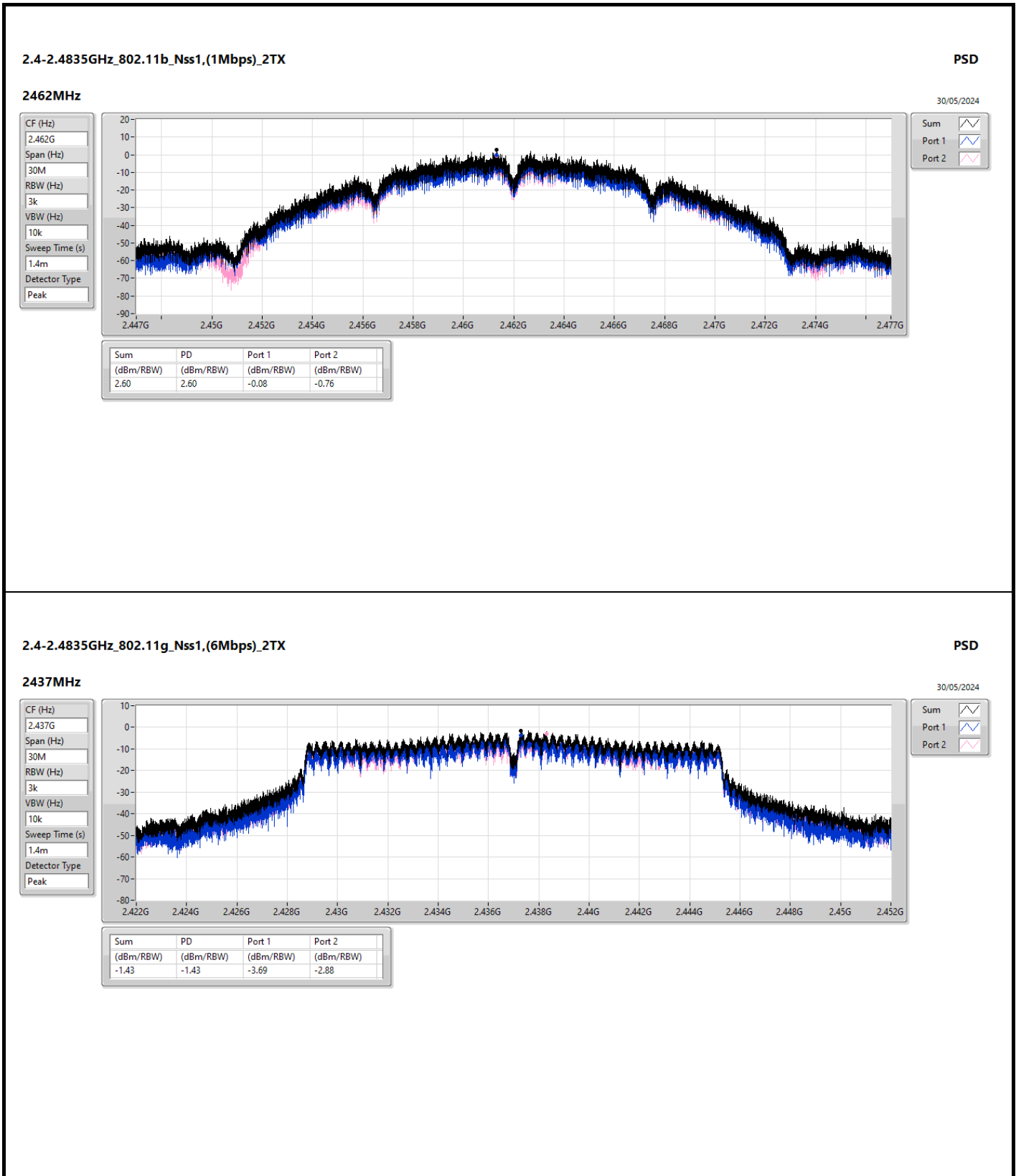
RBW = 3kHz;

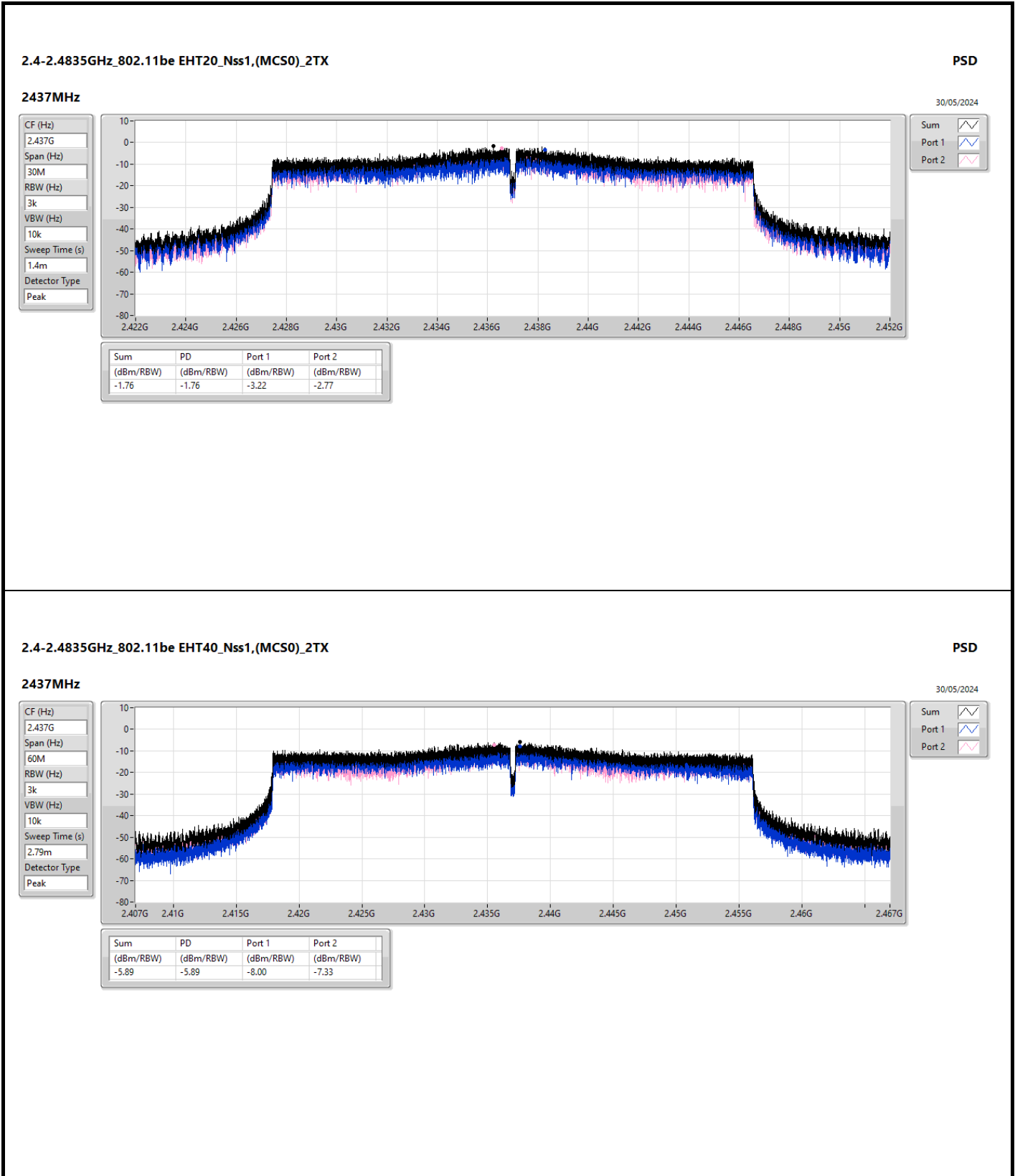


Result

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	8.16	0.48	-1.44	2.52	5.84
2437MHz	Pass	8.16	-1.70	-1.44	1.24	5.84
2462MHz	Pass	8.16	-0.08	-0.76	2.60	5.84
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.16	-3.35	-4.32	-1.85	5.84
2437MHz	Pass	8.16	-3.69	-2.88	-1.43	5.84
2462MHz	Pass	8.16	-5.67	-6.53	-3.42	5.84
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.16	-5.51	-6.58	-3.37	5.84
2437MHz	Pass	8.16	-3.22	-2.77	-1.76	5.84
2462MHz	Pass	8.16	-6.93	-5.25	-4.21	5.84
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	8.16	-7.64	-7.51	-6.33	5.84
2437MHz	Pass	8.16	-8.00	-7.33	-5.89	5.84
2452MHz	Pass	8.16	-8.77	-10.40	-7.56	5.84

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;
 Inf = There's no restriction for the limit.







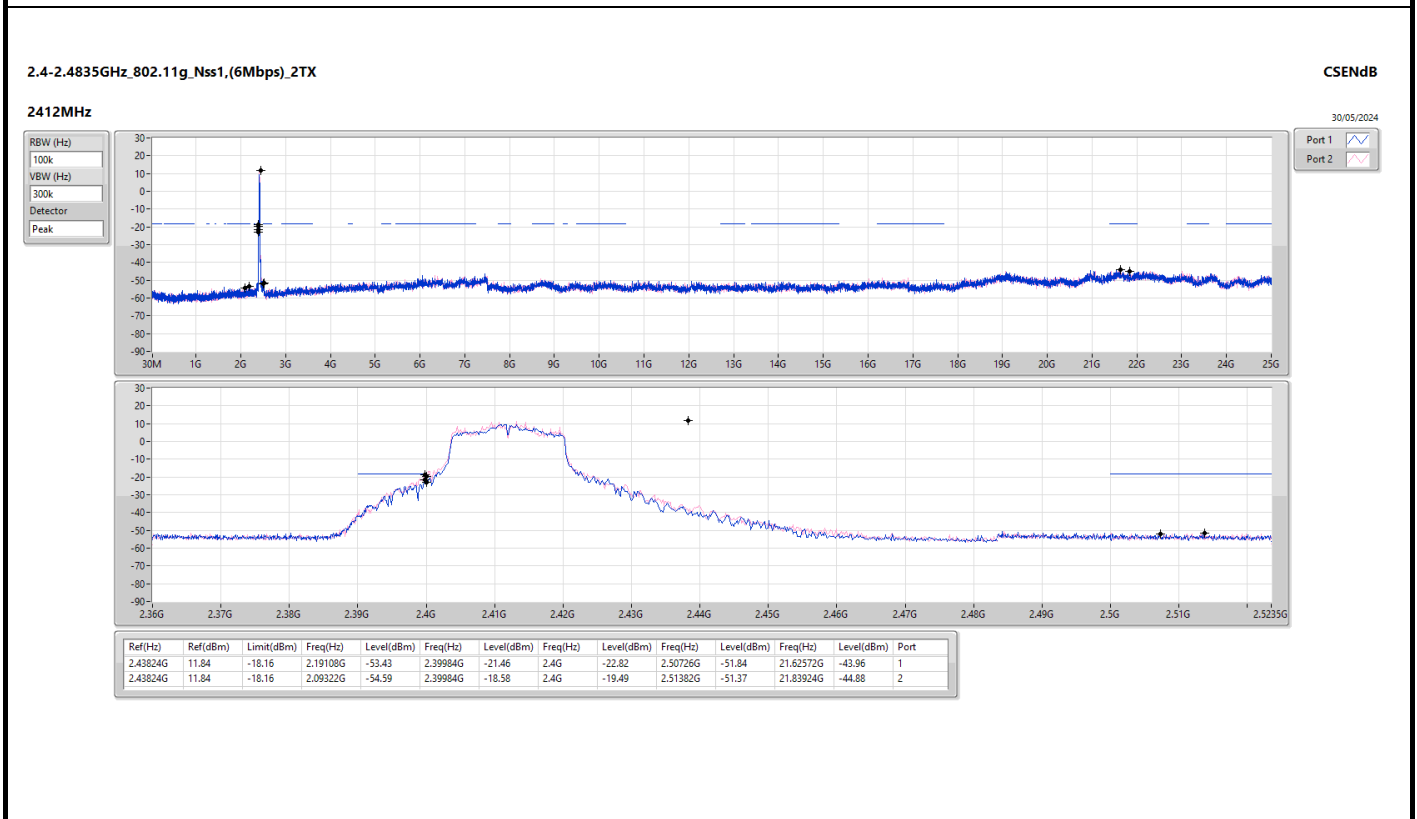
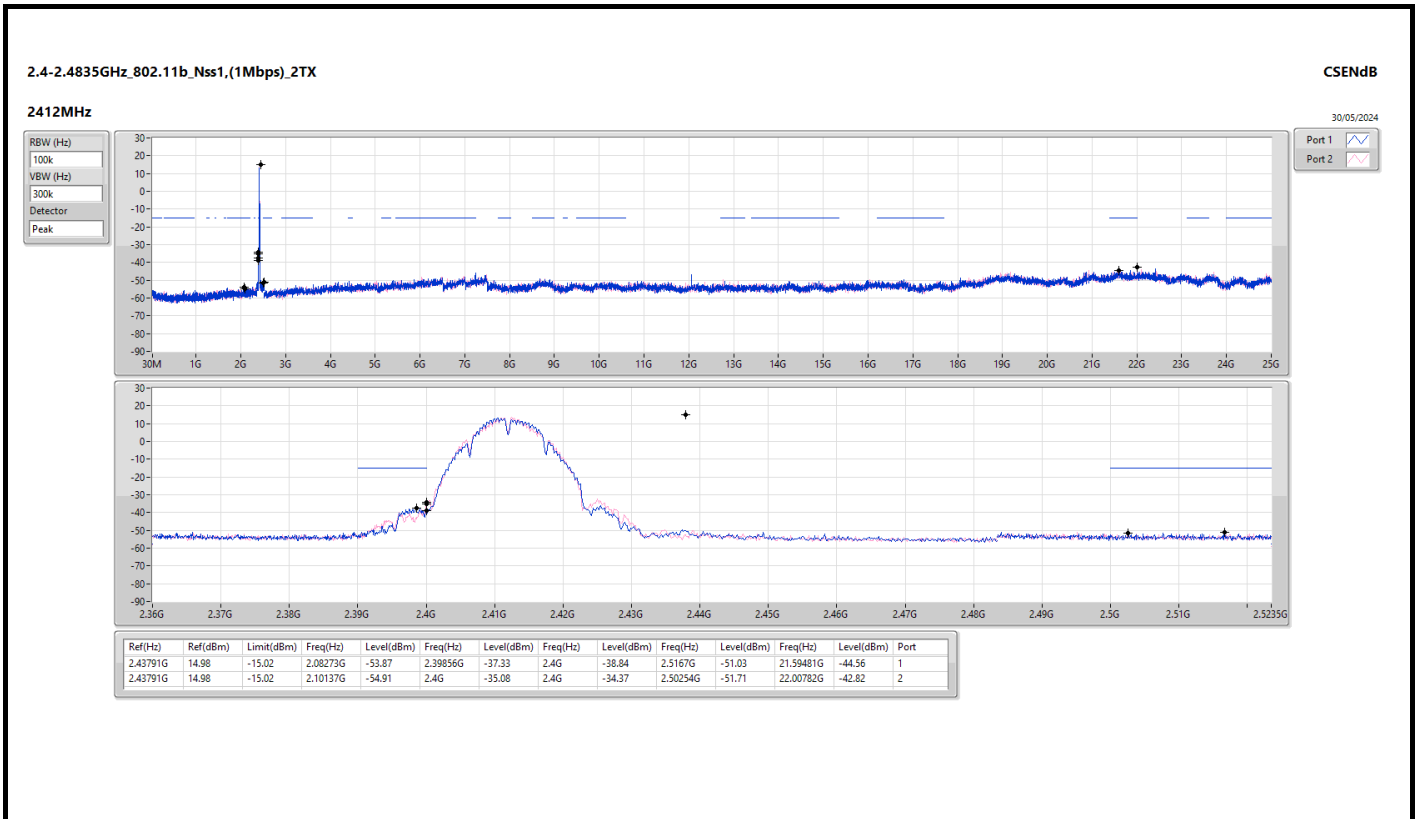
Summary

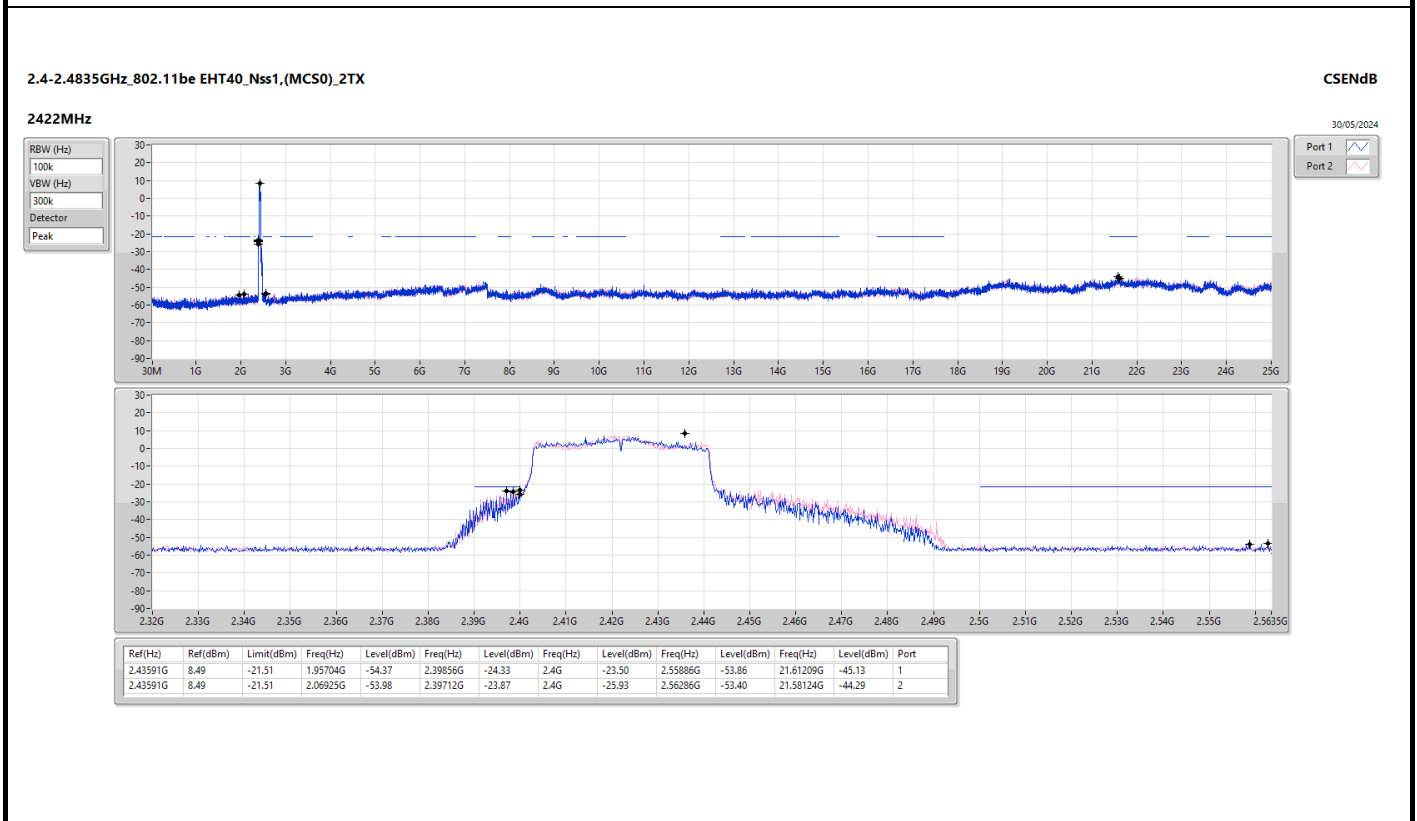
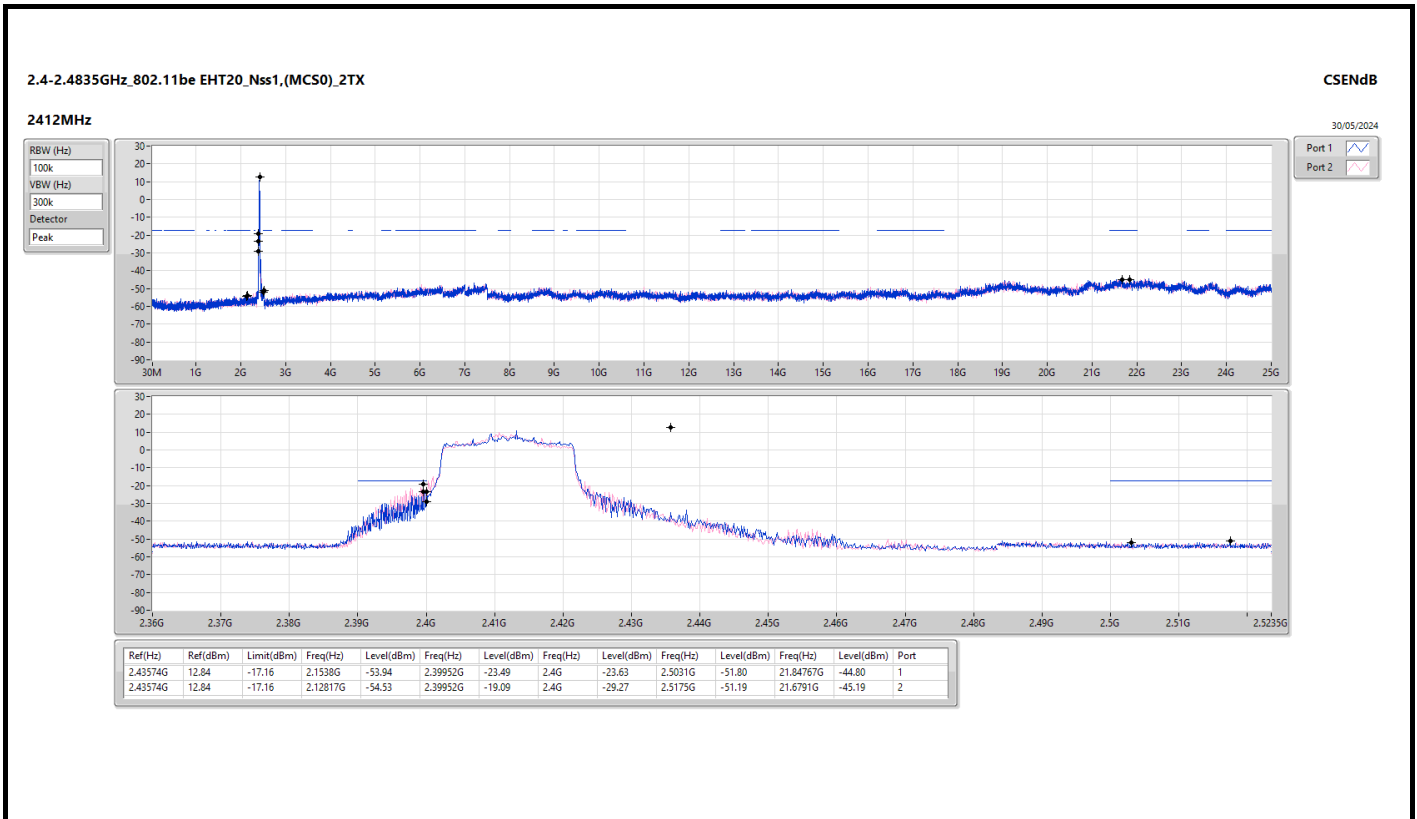
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43791G	14.98	-15.02	2.10137G	-54.91	2.4G	-35.08	2.4G	-34.37	2.50254G	-51.71	22.00782G	-42.82	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43824G	11.84	-18.16	2.09322G	-54.59	2.39984G	-18.58	2.4G	-19.49	2.51382G	-51.37	21.83924G	-44.88	2
802.11be EHT20_Nss1,(MCS0)_2TX	Pass	2.43574G	12.84	-17.16	2.12817G	-54.53	2.39952G	-19.09	2.4G	-29.27	2.5175G	-51.19	21.6791G	-45.19	2
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	2.43591G	8.49	-21.51	1.95704G	-54.37	2.39856G	-24.33	2.4G	-23.50	2.55886G	-53.86	21.61209G	-45.13	1



Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43791G	14.98	-15.02	2.08273G	-53.87	2.39856G	-37.33	2.4G	-38.84	2.5167G	-51.03	21.59481G	-44.56	1
2412MHz	Pass	2.43791G	14.98	-15.02	2.10137G	-54.91	2.4G	-35.08	2.4G	-34.37	2.50254G	-51.71	22.00782G	-42.82	2
2437MHz	Pass	2.43791G	14.98	-15.02	1.79731G	-53.74	2.39232G	-51.18	2.4G	-52.35	2.5011G	-51.05	21.60324G	-44.55	1
2437MHz	Pass	2.43791G	14.98	-15.02	2.19341G	-54.44	2.3972G	-50.87	2.4G	-52.98	2.51278G	-51.39	21.60324G	-44.32	2
2462MHz	Pass	2.43791G	14.98	-15.02	2.19574G	-53.97	2.4G	-47.58	2.4G	-47.96	2.51526G	-51.50	21.59762G	-44.66	1
2462MHz	Pass	2.43791G	14.98	-15.02	1.93944G	-54.43	2.39944G	-50.98	2.4G	-53.24	2.51118G	-51.15	21.65381G	-43.62	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	11.84	-18.16	2.19108G	-53.43	2.39984G	-21.46	2.4G	-22.82	2.50726G	-51.84	21.62572G	-43.96	1
2412MHz	Pass	2.43824G	11.84	-18.16	2.09322G	-54.59	2.39984G	-18.58	2.4G	-19.49	2.51382G	-51.37	21.83924G	-44.88	2
2437MHz	Pass	2.43824G	11.84	-18.16	2.05477G	-54.18	2.3996G	-48.02	2.4G	-46.98	2.50726G	-52.13	21.52457G	-43.96	1
2437MHz	Pass	2.43824G	11.84	-18.16	1.90565G	-54.81	2.39896G	-45.42	2.4G	-47.58	2.50782G	-52.03	21.52738G	-44.93	2
2462MHz	Pass	2.43824G	11.84	-18.16	2.08623G	-53.42	2.4G	-47.04	2.4G	-48.80	2.51502G	-51.89	21.52176G	-44.79	1
2462MHz	Pass	2.43824G	11.84	-18.16	2.00468G	-53.92	2.4G	-50.64	2.4G	-52.12	2.51398G	-51.98	21.53019G	-44.11	2
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	12.84	-17.16	2.1538G	-53.94	2.39952G	-23.49	2.4G	-23.63	2.5031G	-51.80	21.84767G	-44.80	1
2412MHz	Pass	2.43574G	12.84	-17.16	2.12817G	-54.53	2.39952G	-19.09	2.4G	-29.27	2.5175G	-51.19	21.6791G	-45.19	2
2437MHz	Pass	2.43574G	12.84	-17.16	1.99419G	-54.07	2.39936G	-44.70	2.4G	-46.05	2.51622G	-51.54	21.5611G	-45.28	1
2437MHz	Pass	2.43574G	12.84	-17.16	2.16661G	-54.29	2.39992G	-42.00	2.4G	-44.39	2.50686G	-51.69	21.5611G	-44.65	2
2462MHz	Pass	2.43574G	12.84	-17.16	2.12584G	-53.30	2.4G	-48.02	2.4G	-48.92	2.52198G	-50.88	21.60605G	-43.43	1
2462MHz	Pass	2.43574G	12.84	-17.16	1.7111G	-54.12	2.396G	-51.12	2.4G	-51.11	2.51814G	-51.60	21.68472G	-43.84	2
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43591G	8.49	-21.51	1.95704G	-54.37	2.39856G	-24.33	2.4G	-23.50	2.55886G	-53.86	21.61209G	-45.13	1
2422MHz	Pass	2.43591G	8.49	-21.51	2.06925G	-53.98	2.39712G	-23.87	2.4G	-25.93	2.56286G	-53.40	21.58124G	-44.29	2
2437MHz	Pass	2.43591G	8.49	-21.51	2.30283G	-54.48	2.39824G	-28.25	2.4G	-29.18	2.51502G	-53.63	21.61209G	-44.13	1
2437MHz	Pass	2.43591G	8.49	-21.51	1.72689G	-54.33	2.39744G	-31.17	2.4G	-36.82	2.51774G	-53.85	21.60367G	-43.95	2
2452MHz	Pass	2.43591G	8.49	-21.51	1.7601G	-55.25	2.3976G	-44.22	2.4G	-45.45	2.52174G	-53.73	21.58404G	-44.43	1
2452MHz	Pass	2.43591G	8.49	-21.51	2.08528G	-54.46	2.39888G	-42.15	2.4G	-39.30	2.56318G	-54.43	21.5588G	-44.73	2







Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	PK	30M	35.81	40.00	-4.19	3	Vertical	360	1.00

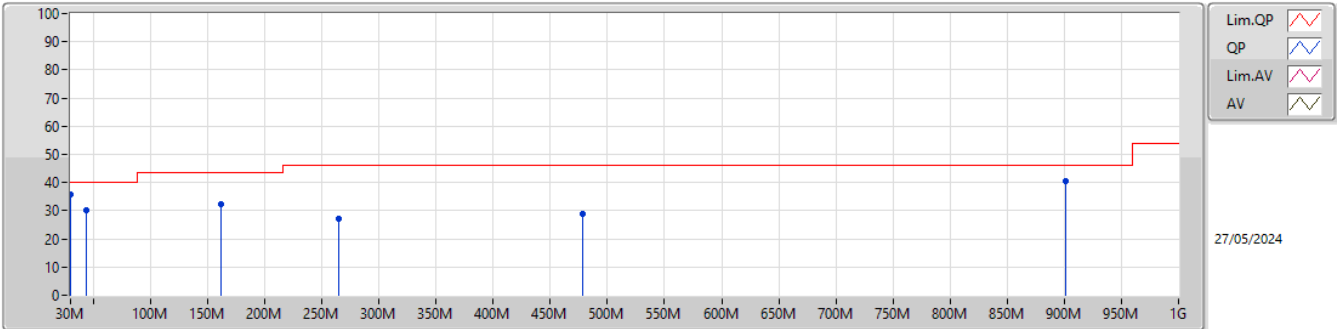


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11be EHT40_Nss1 (MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	35.81	40.00	-4.19	3	Vertical	360	1.00
2437MHz	Pass	PK	43.58M	30.16	40.00	-9.84	3	Vertical	360	1.00
2437MHz	Pass	PK	161.92M	32.48	43.50	-11.02	3	Vertical	360	1.00
2437MHz	Pass	PK	264.74M	27.17	46.00	-18.83	3	Vertical	360	1.00
2437MHz	Pass	PK	478.14M	28.89	46.00	-17.11	3	Vertical	360	1.00
2437MHz	Pass	PK	901.06M	40.62	46.00	-5.38	3	Vertical	360	1.00
2437MHz	Pass	PK	30M	27.29	40.00	-12.71	3	Horizontal	0	1.00
2437MHz	Pass	PK	125.06M	19.73	43.50	-23.77	3	Horizontal	0	1.00
2437MHz	Pass	PK	159.98M	25.54	43.50	-17.96	3	Horizontal	0	1.00
2437MHz	Pass	PK	233.7M	26.22	46.00	-19.78	3	Horizontal	0	1.00
2437MHz	Pass	PK	485.9M	24.74	46.00	-21.26	3	Horizontal	0	1.00
2437MHz	Pass	PK	899.12M	29.16	46.00	-16.84	3	Horizontal	0	1.00

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

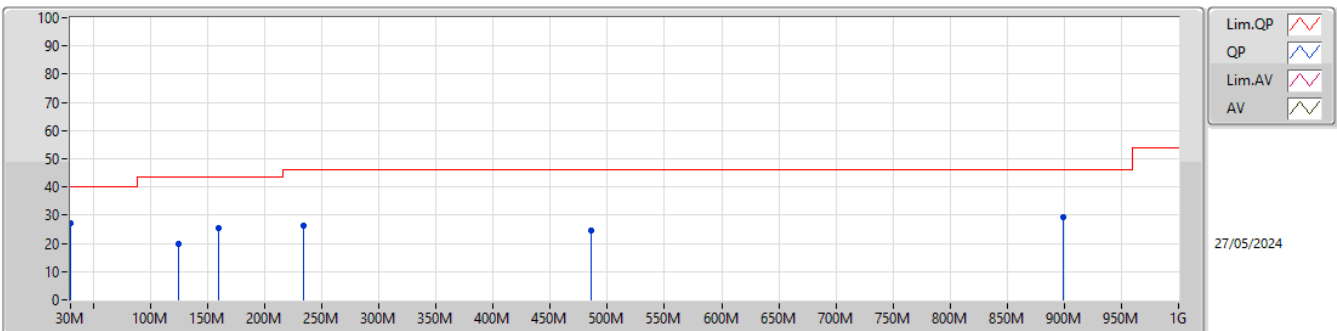
2437MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	35.81	40.00	-4.19	-3.60	3	Vertical	360	1.00	39.41	23.36	0.42	27.38
PK	43.58M	30.16	40.00	-9.84	-10.62	3	Vertical	360	1.00	40.78	16.25	0.50	27.37
PK	161.92M	32.48	43.50	-11.02	-11.02	3	Vertical	360	1.00	43.50	15.05	0.94	27.01
PK	264.74M	27.17	46.00	-18.83	-7.04	3	Vertical	360	1.00	34.21	18.41	1.20	26.65
PK	478.14M	28.89	46.00	-17.11	-4.08	3	Vertical	360	1.00	32.97	22.30	1.62	28.00
PK	901.06M	40.62	46.00	-5.38	-0.02	3	Vertical	360	1.00	40.64	25.70	2.20	27.92

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

2437MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	27.29	40.00	-12.71	-3.60	3	Horizontal	0	1.00	30.89	23.36	0.42	27.38
PK	125.06M	19.73	43.50	-23.77	-9.34	3	Horizontal	0	1.00	29.07	16.99	0.84	27.17
PK	159.98M	25.54	43.50	-17.96	-10.91	3	Horizontal	0	1.00	36.45	15.18	0.93	27.02
PK	233.7M	26.22	46.00	-19.78	-9.93	3	Horizontal	0	1.00	36.15	15.65	1.12	26.70
PK	485.9M	24.74	46.00	-21.26	-3.88	3	Horizontal	0	1.00	28.62	22.51	1.63	28.02
PK	899.12M	29.16	46.00	-16.84	-0.05	3	Horizontal	0	1.00	29.21	25.67	2.20	27.92



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.488G	49.54	54.00	-4.46	3	Horizontal	62	2.09
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	53.88	54.00	-0.12	3	Horizontal	62	2.12
802.11be EHT20_Nss1,(MCS0)_2TX	Pass	PK	2.3896G	73.71	74.00	-0.29	3	Vertical	10	2.78
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	PK	2.3896G	73.74	74.00	-0.26	3	Horizontal	68	2.82



RSE TX above 1GHz_Non-Beamforming_Radio 1

Appendix F.2

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3894G	47.36	54.00	-6.64	3	Vertical	52	2.09
2412MHz	Pass	AV	2.4138G	102.99	Inf	-Inf	3	Vertical	52	2.09
2412MHz	Pass	PK	2.367G	59.54	74.00	-14.46	3	Vertical	52	2.09
2412MHz	Pass	PK	2.4136G	105.30	Inf	-Inf	3	Vertical	52	2.09
2412MHz	Pass	AV	2.3896G	47.62	54.00	-6.38	3	Horizontal	325	2.54
2412MHz	Pass	AV	2.4128G	111.23	Inf	-Inf	3	Horizontal	325	2.54
2412MHz	Pass	PK	2.363G	59.35	74.00	-14.65	3	Horizontal	325	2.54
2412MHz	Pass	PK	2.413G	113.56	Inf	-Inf	3	Horizontal	325	2.54
2412MHz	Pass	AV	4.824G	31.25	54.00	-22.75	3	Vertical	37	1.20
2412MHz	Pass	PK	4.82416G	41.62	74.00	-32.38	3	Vertical	37	1.20
2412MHz	Pass	AV	4.82392G	39.07	54.00	-14.93	3	Horizontal	82	1.75
2412MHz	Pass	PK	4.82416G	45.48	74.00	-28.52	3	Horizontal	82	1.75
2437MHz	Pass	AV	2.3574G	46.34	54.00	-7.66	3	Vertical	67	1.47
2437MHz	Pass	AV	2.4378G	101.43	Inf	-Inf	3	Vertical	67	1.47
2437MHz	Pass	AV	2.493G	47.31	54.00	-6.69	3	Vertical	67	1.47
2437MHz	Pass	PK	2.373G	58.92	74.00	-15.08	3	Vertical	67	1.47
2437MHz	Pass	PK	2.4382G	103.96	Inf	-Inf	3	Vertical	67	1.47
2437MHz	Pass	PK	2.4842G	59.28	74.00	-14.72	3	Vertical	67	1.47
2437MHz	Pass	AV	2.3898G	46.50	54.00	-7.50	3	Horizontal	62	1.92
2437MHz	Pass	AV	2.4362G	111.15	Inf	-Inf	3	Horizontal	62	1.92
2437MHz	Pass	AV	2.4922G	47.31	54.00	-6.69	3	Horizontal	62	1.92
2437MHz	Pass	PK	2.3862G	58.64	74.00	-15.36	3	Horizontal	62	1.92
2437MHz	Pass	PK	2.4362G	113.50	Inf	-Inf	3	Horizontal	62	1.92
2437MHz	Pass	PK	2.4974G	59.42	74.00	-14.58	3	Horizontal	62	1.92
2437MHz	Pass	AV	4.874G	32.06	54.00	-21.94	3	Vertical	31	1.68
2437MHz	Pass	AV	7.31172G	40.00	54.00	-14.00	3	Vertical	330	2.12
2437MHz	Pass	PK	4.86336G	42.49	74.00	-31.51	3	Vertical	31	1.68
2437MHz	Pass	PK	7.31204G	49.54	74.00	-24.46	3	Vertical	330	2.12
2437MHz	Pass	AV	4.874G	38.76	54.00	-15.24	3	Horizontal	60	1.03
2437MHz	Pass	AV	7.3118G	38.21	54.00	-15.79	3	Horizontal	35	1.52
2437MHz	Pass	PK	4.874G	45.68	74.00	-28.32	3	Horizontal	60	1.03
2437MHz	Pass	PK	7.3118G	48.51	74.00	-25.49	3	Horizontal	35	1.52
2462MHz	Pass	AV	2.4612G	102.75	Inf	-Inf	3	Vertical	180	1.40
2462MHz	Pass	AV	2.4876G	48.58	54.00	-5.42	3	Vertical	180	1.40
2462MHz	Pass	PK	2.4612G	105.22	Inf	-Inf	3	Vertical	180	1.40
2462MHz	Pass	PK	2.4954G	60.58	74.00	-13.42	3	Vertical	180	1.40
2462MHz	Pass	AV	2.4612G	111.61	Inf	-Inf	3	Horizontal	62	2.09
2462MHz	Pass	AV	2.488G	49.54	54.00	-4.46	3	Horizontal	62	2.09
2462MHz	Pass	PK	2.4612G	114.17	Inf	-Inf	3	Horizontal	62	2.09
2462MHz	Pass	PK	2.4926G	61.89	74.00	-12.11	3	Horizontal	62	2.09
2462MHz	Pass	AV	4.92396G	34.46	54.00	-19.54	3	Vertical	1	1.50
2462MHz	Pass	AV	7.38512G	40.85	54.00	-13.15	3	Vertical	22	1.28
2462MHz	Pass	PK	4.92392G	43.48	74.00	-30.52	3	Vertical	1	1.50
2462MHz	Pass	PK	7.38432G	49.19	74.00	-24.81	3	Vertical	22	1.28
2462MHz	Pass	AV	4.92396G	34.10	54.00	-19.90	3	Horizontal	339	1.76
2462MHz	Pass	AV	7.38504G	37.39	54.00	-16.61	3	Horizontal	105	1.59
2462MHz	Pass	PK	4.92396G	42.91	74.00	-31.09	3	Horizontal	339	1.76
2462MHz	Pass	PK	7.38484G	48.00	74.00	-26.00	3	Horizontal	105	1.59
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.30	54.00	-1.70	3	Vertical	18	2.79
2412MHz	Pass	AV	2.4126G	107.23	Inf	-Inf	3	Vertical	18	2.79
2412MHz	Pass	PK	2.39G	67.66	74.00	-6.34	3	Vertical	18	2.79
2412MHz	Pass	PK	2.4128G	115.14	Inf	-Inf	3	Vertical	18	2.79
2412MHz	Pass	AV	2.39G	53.88	54.00	-0.12	3	Horizontal	62	2.12
2412MHz	Pass	AV	2.411G	106.95	Inf	-Inf	3	Horizontal	62	2.12
2412MHz	Pass	PK	2.3898G	72.52	74.00	-1.48	3	Horizontal	62	2.12
2412MHz	Pass	PK	2.414G	116.26	Inf	-Inf	3	Horizontal	62	2.12
2412MHz	Pass	AV	4.82392G	30.16	54.00	-23.84	3	Vertical	8	3.00
2412MHz	Pass	PK	4.80656G	41.52	74.00	-32.48	3	Vertical	8	3.00
2412MHz	Pass	AV	4.80664G	32.67	54.00	-21.33	3	Horizontal	24	1.67



RSE TX above 1GHz_Non-Beamforming_Radio 1

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	PK	4.80672G	42.02	74.00	-31.98	3	Horizontal	24	1.67
2417MHz	Pass	AV	2.39G	49.57	54.00	-4.43	3	Vertical	360	2.71
2417MHz	Pass	AV	2.4152G	106.66	Inf	-Inf	3	Vertical	360	2.71
2417MHz	Pass	PK	2.3898G	67.85	74.00	-6.15	3	Vertical	360	2.71
2417MHz	Pass	PK	2.4188G	115.74	Inf	-Inf	3	Vertical	360	2.71
2417MHz	Pass	AV	2.39G	49.75	54.00	-4.25	3	Horizontal	57	2.12
2417MHz	Pass	AV	2.4176G	108.59	Inf	-Inf	3	Horizontal	57	2.12
2417MHz	Pass	PK	2.39G	69.59	74.00	-4.41	3	Horizontal	57	2.12
2417MHz	Pass	PK	2.4164G	116.90	Inf	-Inf	3	Horizontal	57	2.12
2437MHz	Pass	AV	2.3898G	46.50	54.00	-7.50	3	Vertical	360	2.72
2437MHz	Pass	AV	2.4386G	106.34	Inf	-Inf	3	Vertical	360	2.72
2437MHz	Pass	AV	2.4846G	48.04	54.00	-5.96	3	Vertical	360	2.72
2437MHz	Pass	PK	2.3854G	58.48	74.00	-15.52	3	Vertical	360	2.72
2437MHz	Pass	PK	2.4346G	115.59	Inf	-Inf	3	Vertical	360	2.72
2437MHz	Pass	PK	2.4862G	62.50	74.00	-11.50	3	Vertical	360	2.72
2437MHz	Pass	AV	2.3898G	46.76	54.00	-7.24	3	Horizontal	64	1.91
2437MHz	Pass	AV	2.4378G	108.34	Inf	-Inf	3	Horizontal	64	1.91
2437MHz	Pass	AV	2.4835G	48.50	54.00	-5.50	3	Horizontal	64	1.91
2437MHz	Pass	PK	2.377G	58.53	74.00	-15.47	3	Horizontal	64	1.91
2437MHz	Pass	PK	2.4382G	116.83	Inf	-Inf	3	Horizontal	64	1.91
2437MHz	Pass	PK	2.4838G	63.99	74.00	-10.01	3	Horizontal	64	1.91
2437MHz	Pass	AV	4.87408G	29.22	54.00	-24.78	3	Vertical	156	1.50
2437MHz	Pass	AV	7.30796G	39.50	54.00	-14.50	3	Vertical	28	1.22
2437MHz	Pass	PK	4.86552G	42.00	74.00	-32.00	3	Vertical	156	1.50
2437MHz	Pass	PK	7.31172G	55.25	74.00	-18.75	3	Vertical	28	1.22
2437MHz	Pass	AV	4.874G	30.90	54.00	-23.10	3	Horizontal	62	1.03
2437MHz	Pass	AV	7.30868G	37.43	54.00	-16.57	3	Horizontal	32	1.50
2437MHz	Pass	PK	4.87056G	43.56	74.00	-30.44	3	Horizontal	62	1.03
2437MHz	Pass	PK	7.3106G	52.30	74.00	-21.70	3	Horizontal	32	1.50
2457MHz	Pass	AV	2.4562G	100.98	Inf	-Inf	3	Vertical	174	1.41
2457MHz	Pass	AV	2.4835G	48.03	54.00	-5.97	3	Vertical	174	1.41
2457MHz	Pass	PK	2.456G	109.92	Inf	-Inf	3	Vertical	174	1.41
2457MHz	Pass	PK	2.485G	61.07	74.00	-12.93	3	Vertical	174	1.41
2457MHz	Pass	AV	2.4576G	108.53	Inf	-Inf	3	Horizontal	329	2.70
2457MHz	Pass	AV	2.4835G	52.03	54.00	-1.97	3	Horizontal	329	2.70
2457MHz	Pass	PK	2.458G	117.51	Inf	-Inf	3	Horizontal	329	2.70
2457MHz	Pass	PK	2.4882G	69.00	74.00	-5.00	3	Horizontal	329	2.70
2462MHz	Pass	AV	2.4628G	98.38	Inf	-Inf	3	Vertical	181	1.41
2462MHz	Pass	AV	2.4856G	48.82	54.00	-5.18	3	Vertical	181	1.41
2462MHz	Pass	PK	2.4638G	107.46	Inf	-Inf	3	Vertical	181	1.41
2462MHz	Pass	PK	2.4835G	63.67	74.00	-10.33	3	Vertical	181	1.41
2462MHz	Pass	AV	2.4626G	107.06	Inf	-Inf	3	Horizontal	63	2.08
2462MHz	Pass	AV	2.4835G	51.35	54.00	-2.65	3	Horizontal	63	2.08
2462MHz	Pass	PK	2.4614G	115.75	Inf	-Inf	3	Horizontal	63	2.08
2462MHz	Pass	PK	2.4836G	72.28	74.00	-1.72	3	Horizontal	63	2.08
2462MHz	Pass	AV	4.94256G	29.64	54.00	-24.36	3	Vertical	355	1.50
2462MHz	Pass	AV	7.38536G	35.96	54.00	-18.04	3	Vertical	22	1.07
2462MHz	Pass	PK	4.93728G	41.89	74.00	-32.11	3	Vertical	355	1.50
2462MHz	Pass	PK	7.38736G	49.49	74.00	-24.51	3	Vertical	22	1.07
2462MHz	Pass	AV	4.92424G	30.43	54.00	-23.57	3	Horizontal	38	1.01
2462MHz	Pass	AV	7.38528G	35.17	54.00	-18.83	3	Horizontal	99	1.50
2462MHz	Pass	PK	4.92776G	43.44	74.00	-30.56	3	Horizontal	38	1.01
2462MHz	Pass	PK	7.38712G	49.24	74.00	-24.76	3	Horizontal	99	1.50
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.06	54.00	-2.94	3	Vertical	10	2.78
2412MHz	Pass	AV	2.4034G	102.81	Inf	-Inf	3	Vertical	10	2.78
2412MHz	Pass	PK	2.3896G	73.71	74.00	-0.29	3	Vertical	10	2.78
2412MHz	Pass	PK	2.4042G	114.12	Inf	-Inf	3	Vertical	10	2.78
2412MHz	Pass	AV	2.3898G	49.20	54.00	-4.80	3	Horizontal	63	2.13
2412MHz	Pass	AV	2.4128G	105.12	Inf	-Inf	3	Horizontal	63	2.13
2412MHz	Pass	PK	2.3898G	73.71	74.00	-0.29	3	Horizontal	63	2.13
2412MHz	Pass	PK	2.4114G	116.49	Inf	-Inf	3	Horizontal	63	2.13



RSE TX above 1GHz_Non-Beamforming_Radio 1

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	AV	4.82408G	29.03	54.00	-24.97	3	Vertical	38	1.37
2412MHz	Pass	PK	4.82504G	40.33	74.00	-33.67	3	Vertical	38	1.37
2412MHz	Pass	AV	4.80663G	32.81	54.00	-21.19	3	Horizontal	24	1.50
2412MHz	Pass	PK	4.80691G	42.30	74.00	-31.70	3	Horizontal	24	1.50
2417MHz	Pass	AV	2.39G	48.38	54.00	-5.62	3	Vertical	358	2.71
2417MHz	Pass	AV	2.4162G	107.50	Inf	-Inf	3	Vertical	358	2.71
2417MHz	Pass	PK	2.3898G	65.49	74.00	-8.51	3	Vertical	358	2.71
2417MHz	Pass	PK	2.4176G	118.81	Inf	-Inf	3	Vertical	358	2.71
2417MHz	Pass	AV	2.39G	49.93	54.00	-4.07	3	Horizontal	58	2.12
2417MHz	Pass	AV	2.4162G	107.08	Inf	-Inf	3	Horizontal	58	2.12
2417MHz	Pass	PK	2.3898G	68.56	74.00	-5.44	3	Horizontal	58	2.12
2417MHz	Pass	PK	2.4154G	117.95	Inf	-Inf	3	Horizontal	58	2.12
2437MHz	Pass	AV	2.3558G	46.58	54.00	-7.42	3	Vertical	204	1.15
2437MHz	Pass	AV	2.4378G	98.87	Inf	-Inf	3	Vertical	204	1.15
2437MHz	Pass	AV	2.4918G	47.57	54.00	-6.43	3	Vertical	204	1.15
2437MHz	Pass	PK	2.3754G	59.06	74.00	-14.94	3	Vertical	204	1.15
2437MHz	Pass	PK	2.4382G	110.08	Inf	-Inf	3	Vertical	204	1.15
2437MHz	Pass	PK	2.4842G	59.98	74.00	-14.02	3	Vertical	204	1.15
2437MHz	Pass	AV	2.3898G	47.25	54.00	-6.75	3	Horizontal	62	1.91
2437MHz	Pass	AV	2.4362G	108.04	Inf	-Inf	3	Horizontal	62	1.91
2437MHz	Pass	AV	2.4835G	50.16	54.00	-3.84	3	Horizontal	62	1.91
2437MHz	Pass	PK	2.3898G	60.12	74.00	-13.88	3	Horizontal	62	1.91
2437MHz	Pass	PK	2.4386G	119.43	Inf	-Inf	3	Horizontal	62	1.91
2437MHz	Pass	PK	2.4842G	69.46	74.00	-4.54	3	Horizontal	62	1.91
2437MHz	Pass	AV	4.8824G	29.42	54.00	-24.58	3	Vertical	277	1.50
2437MHz	Pass	AV	7.30676G	38.42	54.00	-15.58	3	Vertical	28	1.23
2437MHz	Pass	PK	4.8628G	41.87	74.00	-32.13	3	Vertical	277	1.50
2437MHz	Pass	PK	7.3222G	55.09	74.00	-18.91	3	Vertical	28	1.23
2437MHz	Pass	AV	4.8736G	30.69	54.00	-23.31	3	Horizontal	64	1.03
2437MHz	Pass	AV	7.31148G	40.22	54.00	-13.78	3	Horizontal	314	1.00
2437MHz	Pass	PK	4.87024G	43.24	74.00	-30.76	3	Horizontal	64	1.03
2437MHz	Pass	PK	7.31044G	57.48	74.00	-16.52	3	Horizontal	314	1.00
2457MHz	Pass	AV	2.4578G	98.42	Inf	-Inf	3	Vertical	172	1.42
2457MHz	Pass	AV	2.4856G	48.29	54.00	-5.71	3	Vertical	172	1.42
2457MHz	Pass	PK	2.4582G	110.26	Inf	-Inf	3	Vertical	172	1.42
2457MHz	Pass	PK	2.484G	64.58	74.00	-9.42	3	Vertical	172	1.42
2457MHz	Pass	AV	2.4576G	107.25	Inf	-Inf	3	Horizontal	62	2.09
2457MHz	Pass	AV	2.4838G	52.61	54.00	-1.39	3	Horizontal	62	2.09
2457MHz	Pass	PK	2.4584G	119.72	Inf	-Inf	3	Horizontal	62	2.09
2457MHz	Pass	PK	2.4842G	73.51	74.00	-0.49	3	Horizontal	62	2.09
2462MHz	Pass	AV	2.4612G	97.01	Inf	-Inf	3	Vertical	85	1.42
2462MHz	Pass	AV	2.485G	49.06	54.00	-4.94	3	Vertical	85	1.42
2462MHz	Pass	PK	2.463G	108.60	Inf	-Inf	3	Vertical	85	1.42
2462MHz	Pass	PK	2.4836G	65.11	74.00	-8.89	3	Vertical	85	1.42
2462MHz	Pass	AV	2.461G	106.04	Inf	-Inf	3	Horizontal	62	2.10
2462MHz	Pass	AV	2.4835G	52.56	54.00	-1.44	3	Horizontal	62	2.10
2462MHz	Pass	PK	2.461G	117.31	Inf	-Inf	3	Horizontal	62	2.10
2462MHz	Pass	PK	2.4836G	73.71	74.00	-0.29	3	Horizontal	62	2.10
2462MHz	Pass	AV	4.94272G	29.86	54.00	-24.14	3	Vertical	152	1.50
2462MHz	Pass	AV	7.38552G	34.69	54.00	-19.31	3	Vertical	312	2.91
2462MHz	Pass	PK	4.92472G	41.92	74.00	-32.08	3	Vertical	152	1.50
2462MHz	Pass	PK	7.392G	46.60	74.00	-27.40	3	Vertical	312	2.91
2462MHz	Pass	AV	4.94176G	29.75	54.00	-24.25	3	Horizontal	304	1.50
2462MHz	Pass	AV	7.38576G	34.88	54.00	-19.12	3	Horizontal	97	1.50
2462MHz	Pass	PK	4.92024G	42.64	74.00	-31.36	3	Horizontal	304	1.50
2462MHz	Pass	PK	7.38168G	47.47	74.00	-26.53	3	Horizontal	97	1.50
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	52.01	54.00	-1.99	3	Vertical	6	2.72
2422MHz	Pass	AV	2.4212G	103.22	Inf	-Inf	3	Vertical	6	2.72
2422MHz	Pass	AV	2.4835G	50.78	54.00	-3.22	3	Vertical	6	2.72
2422MHz	Pass	PK	2.3884G	71.78	74.00	-2.22	3	Vertical	6	2.72
2422MHz	Pass	PK	2.4232G	115.31	Inf	-Inf	3	Vertical	6	2.72



RSE TX above 1GHz_Non-Beamforming_Radio 1

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2422MHz	Pass	PK	2.486G	66.23	74.00	-7.77	3	Vertical	6	2.72
2422MHz	Pass	AV	2.39G	50.72	54.00	-3.28	3	Horizontal	68	2.82
2422MHz	Pass	AV	2.4212G	101.30	Inf	-Inf	3	Horizontal	68	2.82
2422MHz	Pass	AV	2.4835G	49.27	54.00	-4.73	3	Horizontal	68	2.82
2422MHz	Pass	PK	2.42G	113.40	Inf	-Inf	3	Horizontal	68	2.82
2422MHz	Pass	PK	2.3896G	73.74	74.00	-0.26	3	Horizontal	68	2.82
2422MHz	Pass	PK	2.4868G	66.69	74.00	-7.31	3	Horizontal	68	2.82
2422MHz	Pass	AV	4.84804G	28.67	54.00	-25.33	3	Vertical	47	1.89
2422MHz	Pass	AV	7.26594G	34.06	54.00	-19.94	3	Vertical	117	2.10
2422MHz	Pass	PK	4.84804G	41.05	74.00	-32.95	3	Vertical	47	1.89
2422MHz	Pass	PK	7.26988G	46.29	74.00	-27.71	3	Vertical	117	2.10
2422MHz	Pass	AV	4.84876G	28.56	54.00	-25.44	3	Horizontal	106	1.74
2422MHz	Pass	AV	7.26932G	33.95	54.00	-20.05	3	Horizontal	95	2.50
2422MHz	Pass	PK	4.84662G	42.18	74.00	-31.82	3	Horizontal	106	1.74
2422MHz	Pass	PK	7.26642G	47.35	74.00	-26.65	3	Horizontal	95	2.50
2427MHz	Pass	AV	2.3898G	50.11	54.00	-3.89	3	Vertical	352	3.00
2427MHz	Pass	AV	2.4326G	99.88	Inf	-Inf	3	Vertical	352	3.00
2427MHz	Pass	AV	2.4835G	48.50	54.00	-5.50	3	Vertical	352	3.00
2427MHz	Pass	PK	2.3898G	71.40	74.00	-2.60	3	Vertical	352	3.00
2427MHz	Pass	PK	2.4326G	111.69	Inf	-Inf	3	Vertical	352	3.00
2427MHz	Pass	PK	2.4842G	63.19	74.00	-10.81	3	Vertical	352	3.00
2427MHz	Pass	AV	2.3898G	51.40	54.00	-2.60	3	Horizontal	61	1.92
2427MHz	Pass	AV	2.4278G	103.58	Inf	-Inf	3	Horizontal	61	1.92
2427MHz	Pass	AV	2.4835G	49.78	54.00	-4.22	3	Horizontal	61	1.92
2427MHz	Pass	PK	2.3898G	73.09	74.00	-0.91	3	Horizontal	61	1.92
2427MHz	Pass	PK	2.4278G	116.33	Inf	-Inf	3	Horizontal	61	1.92
2427MHz	Pass	PK	2.4838G	66.30	74.00	-7.70	3	Horizontal	61	1.92
2437MHz	Pass	AV	2.3898G	46.50	54.00	-7.50	3	Vertical	69	1.70
2437MHz	Pass	AV	2.4354G	93.86	Inf	-Inf	3	Vertical	69	1.70
2437MHz	Pass	AV	2.4866G	47.56	54.00	-6.44	3	Vertical	69	1.70
2437MHz	Pass	PK	2.3898G	58.63	74.00	-15.37	3	Vertical	69	1.70
2437MHz	Pass	PK	2.433G	106.15	Inf	-Inf	3	Vertical	69	1.70
2437MHz	Pass	PK	2.4842G	62.02	74.00	-11.98	3	Vertical	69	1.70
2437MHz	Pass	AV	2.3898G	47.72	54.00	-6.28	3	Horizontal	62	1.90
2437MHz	Pass	AV	2.4378G	103.90	Inf	-Inf	3	Horizontal	62	1.90
2437MHz	Pass	AV	2.4835G	52.03	54.00	-1.97	3	Horizontal	62	1.90
2437MHz	Pass	PK	2.3898G	65.78	74.00	-8.22	3	Horizontal	62	1.90
2437MHz	Pass	PK	2.4362G	115.81	Inf	-Inf	3	Horizontal	62	1.90
2437MHz	Pass	PK	2.4874G	73.40	74.00	-0.60	3	Horizontal	62	1.90
2437MHz	Pass	AV	4.87724G	29.25	54.00	-24.75	3	Vertical	352	2.64
2437MHz	Pass	AV	7.31328G	34.48	54.00	-19.52	3	Vertical	279	2.65
2437MHz	Pass	PK	4.87678G	41.89	74.00	-32.11	3	Vertical	352	2.64
2437MHz	Pass	PK	7.3111G	46.77	74.00	-27.23	3	Vertical	279	2.65
2437MHz	Pass	AV	4.87308G	29.20	54.00	-24.80	3	Horizontal	316	1.25
2437MHz	Pass	AV	7.30778G	34.38	54.00	-19.62	3	Horizontal	181	2.17
2437MHz	Pass	PK	4.8768G	42.69	74.00	-31.31	3	Horizontal	316	1.25
2437MHz	Pass	PK	7.30738G	46.28	74.00	-27.72	3	Horizontal	181	2.17
2447MHz	Pass	AV	2.3594G	47.38	54.00	-6.62	3	Vertical	85	1.47
2447MHz	Pass	AV	2.4398G	93.36	Inf	-Inf	3	Vertical	85	1.47
2447MHz	Pass	AV	2.4838G	49.51	54.00	-4.49	3	Vertical	85	1.47
2447MHz	Pass	PK	2.3794G	59.89	74.00	-14.11	3	Vertical	85	1.47
2447MHz	Pass	PK	2.441G	105.59	Inf	-Inf	3	Vertical	85	1.47
2447MHz	Pass	PK	2.4842G	64.77	74.00	-9.23	3	Vertical	85	1.47
2447MHz	Pass	AV	2.3898G	47.62	54.00	-6.38	3	Horizontal	333	2.50
2447MHz	Pass	AV	2.4462G	102.87	Inf	-Inf	3	Horizontal	333	2.50
2447MHz	Pass	AV	2.4838G	53.48	54.00	-0.52	3	Horizontal	333	2.50
2447MHz	Pass	PK	2.3898G	60.16	74.00	-13.84	3	Horizontal	333	2.50
2447MHz	Pass	PK	2.4482G	114.28	Inf	-Inf	3	Horizontal	333	2.50
2447MHz	Pass	PK	2.4835G	72.08	74.00	-1.92	3	Horizontal	333	2.50
2452MHz	Pass	AV	2.3576G	47.39	54.00	-6.61	3	Vertical	86	1.48
2452MHz	Pass	AV	2.4456G	90.68	Inf	-Inf	3	Vertical	86	1.48
2452MHz	Pass	AV	2.4868G	48.82	54.00	-5.18	3	Vertical	86	1.48



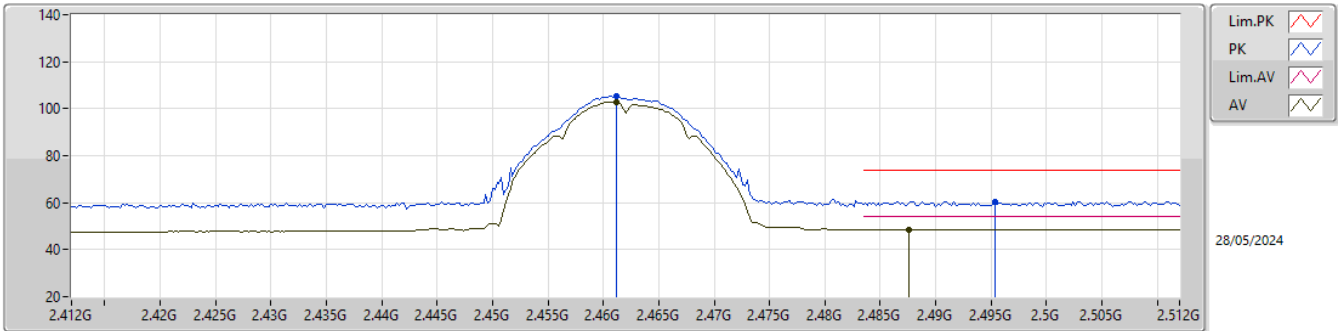
RSE TX above 1GHz_Non-Beamforming_Radio 1

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2452MHz	Pass	PK	2.3888G	59.61	74.00	-14.39	3	Vertical	86	1.48
2452MHz	Pass	PK	2.454G	102.43	Inf	-Inf	3	Vertical	86	1.48
2452MHz	Pass	PK	2.4848G	66.16	74.00	-7.84	3	Vertical	86	1.48
2452MHz	Pass	AV	2.3576G	47.39	54.00	-6.61	3	Horizontal	329	2.47
2452MHz	Pass	AV	2.4512G	101.79	Inf	-Inf	3	Horizontal	329	2.47
2452MHz	Pass	AV	2.4835G	51.17	54.00	-2.83	3	Horizontal	329	2.47
2452MHz	Pass	PK	2.3804G	59.53	74.00	-14.47	3	Horizontal	329	2.47
2452MHz	Pass	PK	2.4484G	113.15	Inf	-Inf	3	Horizontal	329	2.47
2452MHz	Pass	PK	2.484G	73.72	74.00	-0.28	3	Horizontal	329	2.47
2452MHz	Pass	AV	4.90108G	29.02	54.00	-24.98	3	Vertical	277	1.37
2452MHz	Pass	AV	7.35102G	33.93	54.00	-20.07	3	Vertical	170	1.92
2452MHz	Pass	PK	4.9073G	41.66	74.00	-32.34	3	Vertical	277	1.37
2452MHz	Pass	PK	7.35134G	45.96	74.00	-28.04	3	Vertical	170	1.92
2452MHz	Pass	AV	4.89902G	28.99	54.00	-25.01	3	Horizontal	101	2.28
2452MHz	Pass	AV	7.35236G	34.03	54.00	-19.97	3	Horizontal	341	1.11
2452MHz	Pass	PK	4.90468G	41.49	74.00	-32.51	3	Horizontal	101	2.28
2452MHz	Pass	PK	7.35694G	45.76	74.00	-28.24	3	Horizontal	341	1.11

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

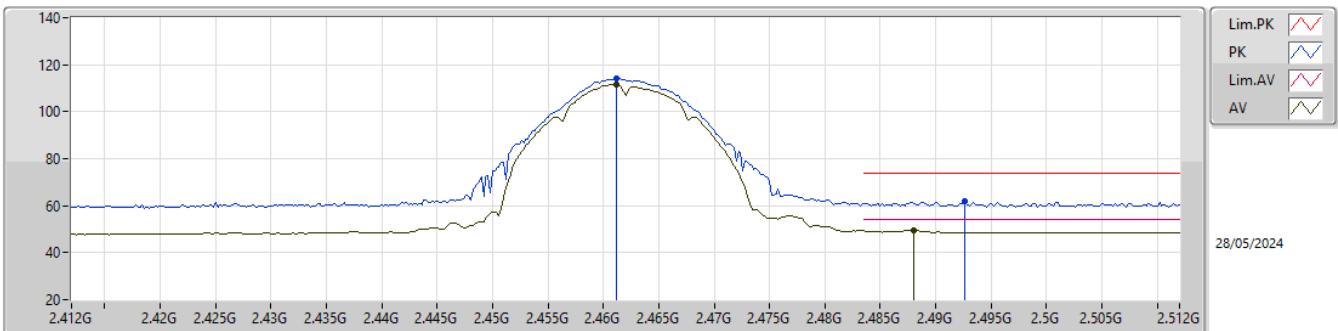
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	102.75	Inf	-Inf	32.01	3	Vertical	180	1.40	70.74	27.40	4.61	-
AV	2.4876G	48.58	54.00	-5.42	32.22	3	Vertical	180	1.40	16.36	27.58	4.64	-
PK	2.4612G	105.22	Inf	-Inf	32.01	3	Vertical	180	1.40	73.21	27.40	4.61	-
PK	2.4954G	60.58	74.00	-13.42	32.25	3	Vertical	180	1.40	28.33	27.60	4.65	-

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

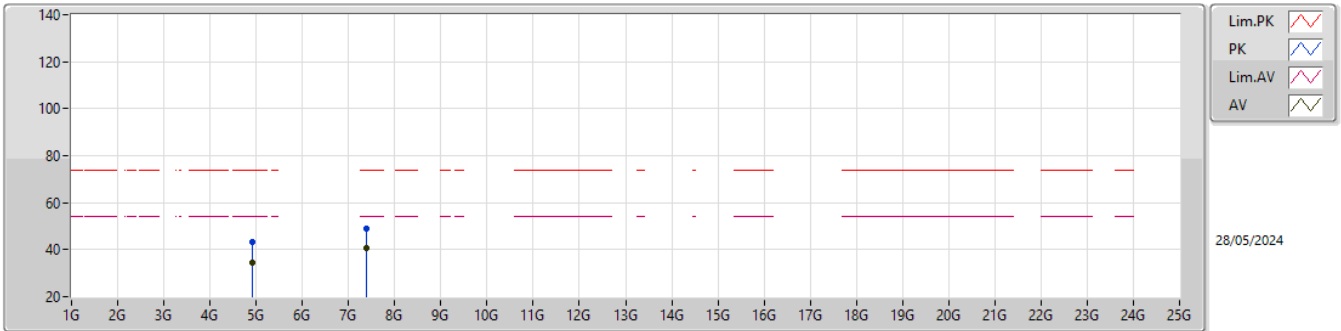
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	111.61	Inf	-Inf	32.01	3	Horizontal	62	2.09	79.60	27.40	4.61	-
AV	2.488G	49.54	54.00	-4.46	32.22	3	Horizontal	62	2.09	17.32	27.58	4.64	-
PK	2.4612G	114.17	Inf	-Inf	32.01	3	Horizontal	62	2.09	82.16	27.40	4.61	-
PK	2.4926G	61.89	74.00	-12.11	32.25	3	Horizontal	62	2.09	29.64	27.60	4.65	-

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

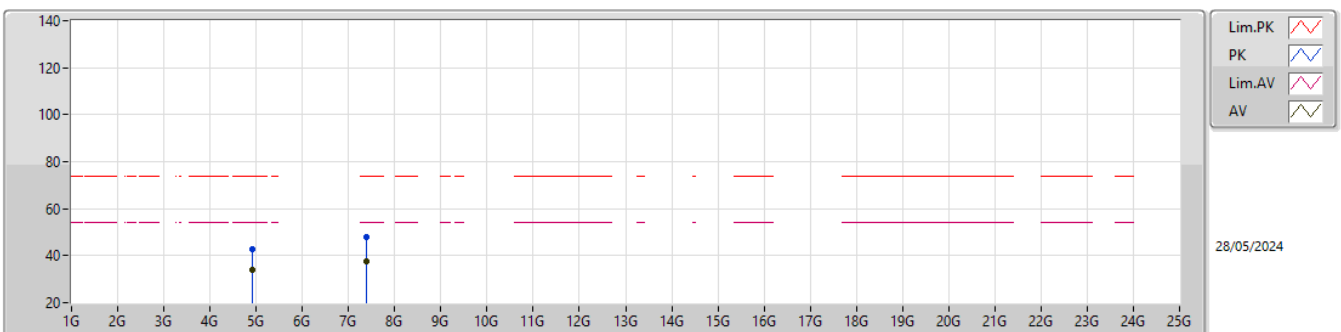
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92396G	34.46	54.00	-19.54	4.59	3	Vertical	1	1.50	29.87	32.74	6.64	34.79
AV	7.38512G	40.85	54.00	-13.15	9.68	3	Vertical	22	1.28	31.17	36.29	8.36	34.97
PK	4.92392G	43.48	74.00	-30.52	4.59	3	Vertical	1	1.50	38.89	32.74	6.64	34.79
PK	7.38432G	49.19	74.00	-24.81	9.68	3	Vertical	22	1.28	39.51	36.29	8.36	34.97

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

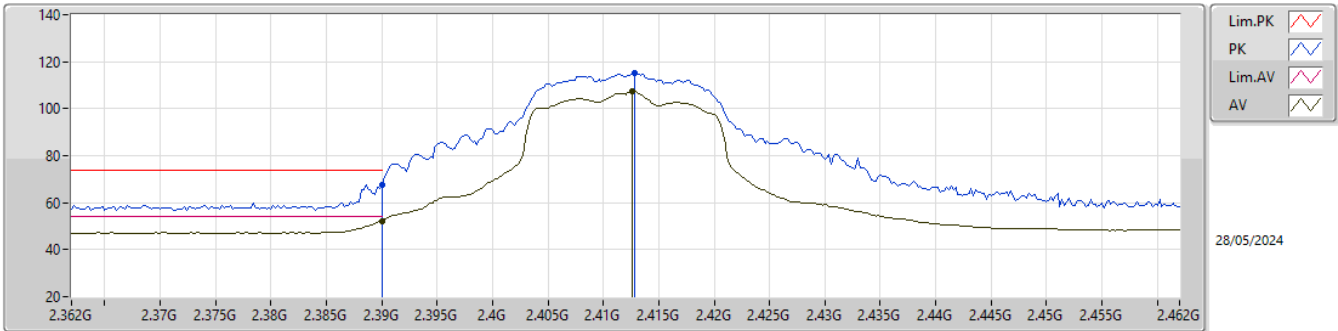
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92396G	34.10	54.00	-19.90	4.59	3	Horizontal	339	1.76	29.51	32.74	6.64	34.79
AV	7.38504G	37.39	54.00	-16.61	9.68	3	Horizontal	105	1.59	27.71	36.29	8.36	34.97
PK	4.92396G	42.91	74.00	-31.09	4.59	3	Horizontal	339	1.76	38.32	32.74	6.64	34.79
PK	7.38484G	48.00	74.00	-26.00	9.68	3	Horizontal	105	1.59	38.32	36.29	8.36	34.97

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

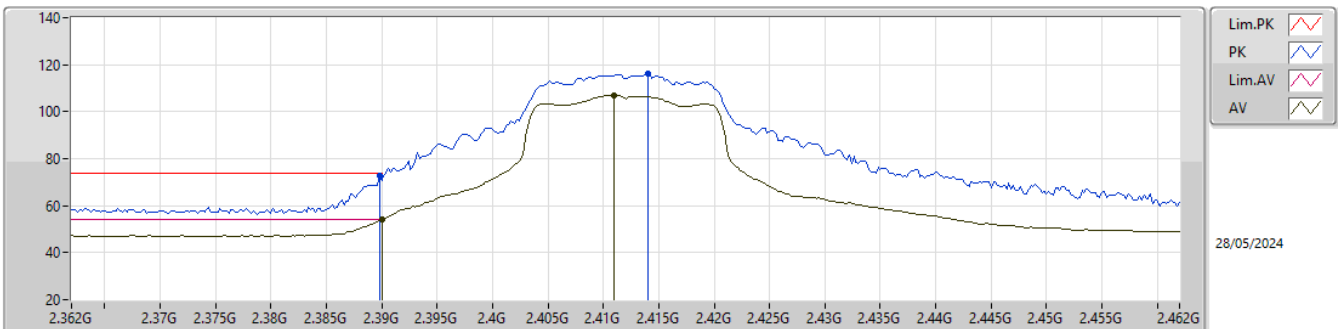
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.30	54.00	-1.70	31.83	3	Vertical	18	2.79	20.47	27.30	4.53	-
AV	2.4126G	107.23	Inf	-Inf	31.95	3	Vertical	18	2.79	75.28	27.40	4.55	-
PK	2.39G	67.66	74.00	-6.34	31.83	3	Vertical	18	2.79	35.83	27.30	4.53	-
PK	2.4128G	115.14	Inf	-Inf	31.95	3	Vertical	18	2.79	83.19	27.40	4.55	-

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

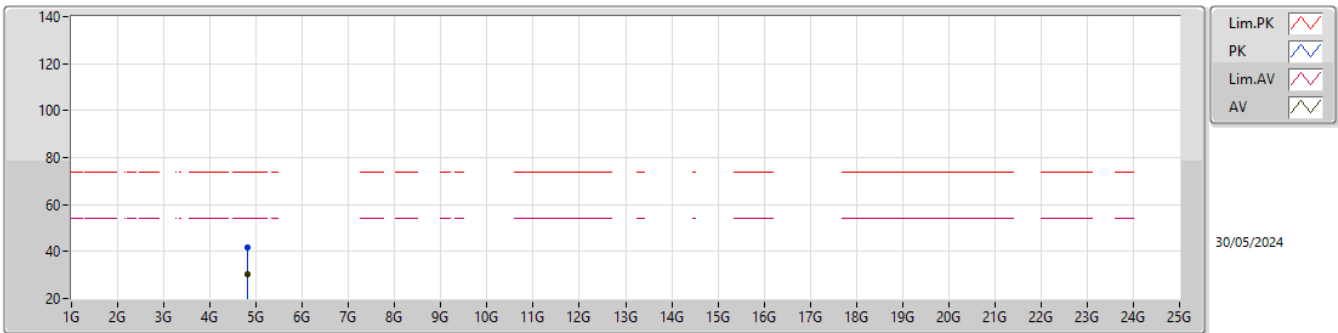
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.88	54.00	-0.12	31.83	3	Horizontal	62	2.12	22.05	27.30	4.53	-
AV	2.411G	106.95	Inf	-Inf	31.95	3	Horizontal	62	2.12	75.00	27.40	4.55	-
PK	2.3898G	72.52	74.00	-1.48	31.83	3	Horizontal	62	2.12	40.69	27.30	4.53	-
PK	2.414G	116.26	Inf	-Inf	31.96	3	Horizontal	62	2.12	84.30	27.40	4.56	-

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

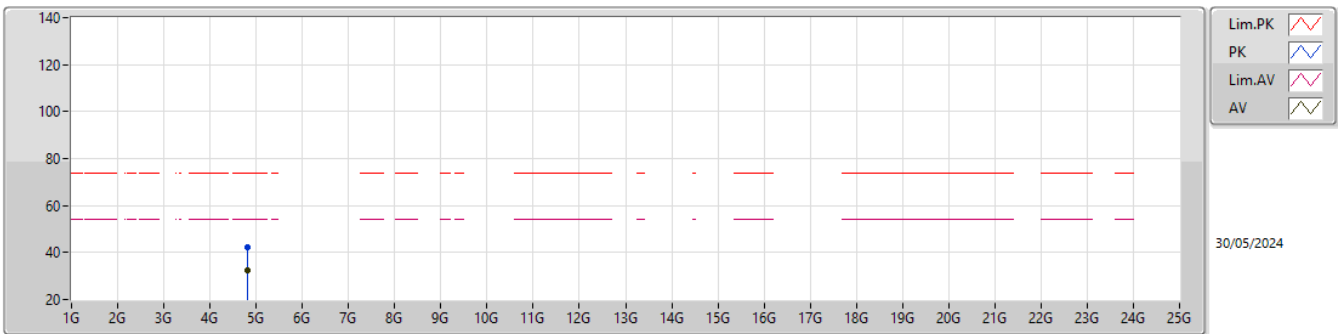
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82392G	30.16	54.00	-23.84	4.02	3	Vertical	8	3.00	26.14	32.30	6.54	34.82
PK	4.80656G	41.52	74.00	-32.48	3.92	3	Vertical	8	3.00	37.60	32.23	6.52	34.83

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

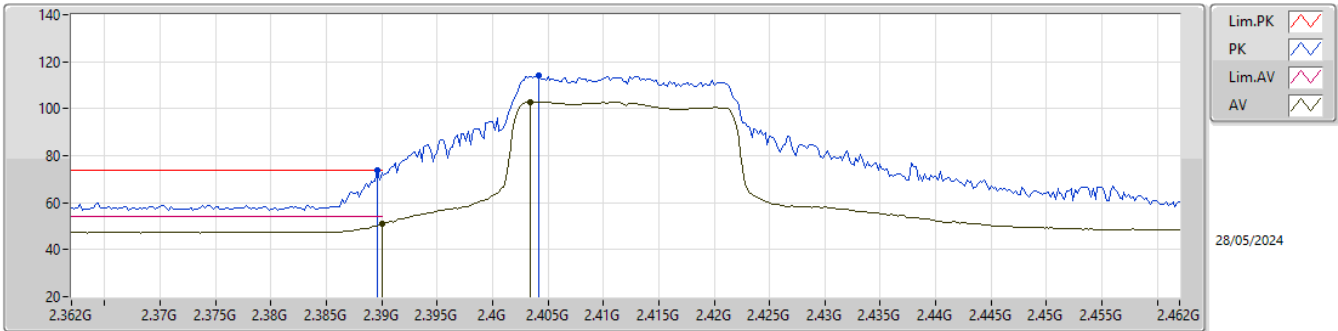
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80664G	32.67	54.00	-21.33	3.92	3	Horizontal	24	1.67	28.75	32.23	6.52	34.83
PK	4.80672G	42.02	74.00	-31.98	3.92	3	Horizontal	24	1.67	38.10	32.23	6.52	34.83

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

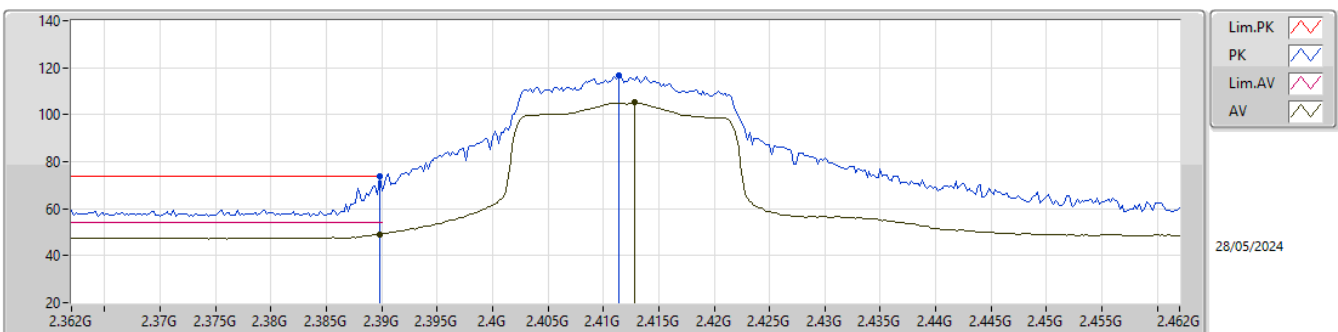
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.06	54.00	-2.94	31.83	3	Vertical	10	2.78	19.23	27.30	4.53	-
AV	2.4034G	102.81	Inf	-Inf	31.94	3	Vertical	10	2.78	70.87	27.40	4.54	-
PK	2.3896G	73.71	74.00	-0.29	31.83	3	Vertical	10	2.78	41.88	27.30	4.53	-
PK	2.4042G	114.12	Inf	-Inf	31.94	3	Vertical	10	2.78	82.18	27.40	4.54	-

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

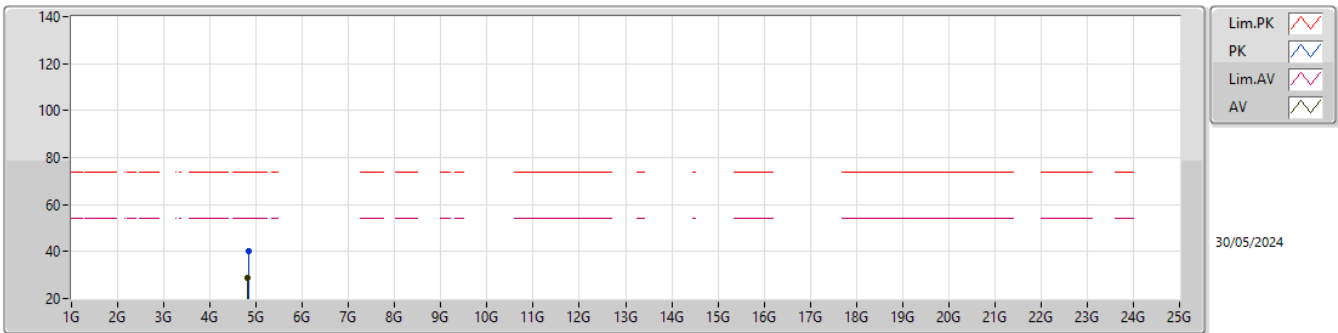
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	49.20	54.00	-4.80	31.83	3	Horizontal	63	2.13	17.37	27.30	4.53	-
AV	2.4128G	105.12	Inf	-Inf	31.95	3	Horizontal	63	2.13	73.17	27.40	4.55	-
PK	2.3898G	73.71	74.00	-0.29	31.83	3	Horizontal	63	2.13	41.88	27.30	4.53	-
PK	2.4114G	116.49	Inf	-Inf	31.95	3	Horizontal	63	2.13	84.54	27.40	4.55	-

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

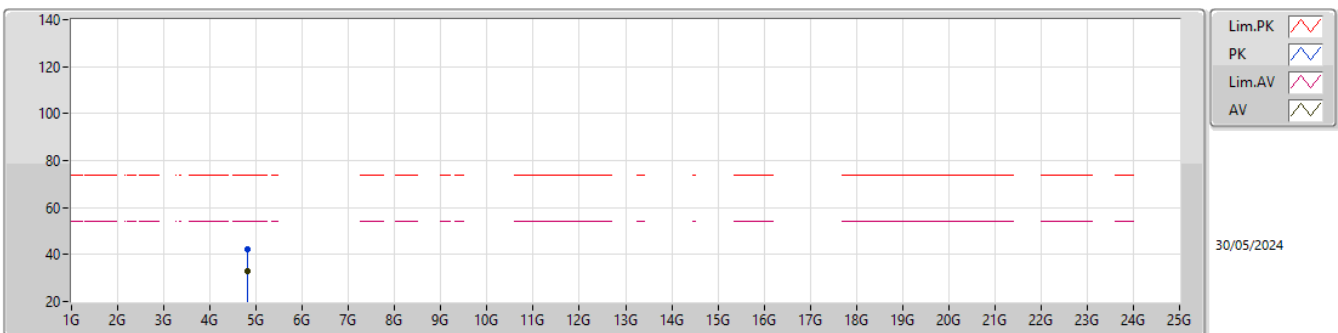
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82408G	29.03	54.00	-24.97	4.02	3	Vertical	38	1.37	25.01	32.30	6.54	34.82
PK	4.82504G	40.33	74.00	-33.67	4.02	3	Vertical	38	1.37	36.31	32.30	6.54	34.82

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

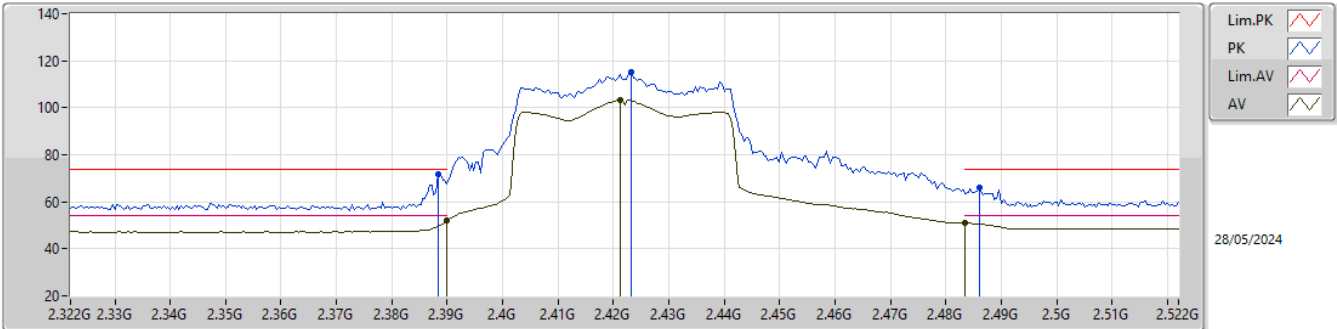
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80663G	32.81	54.00	-21.19	3.92	3	Horizontal	24	1.50	28.89	32.23	6.52	34.83
PK	4.80691G	42.30	74.00	-31.70	3.92	3	Horizontal	24	1.50	38.38	32.23	6.52	34.83

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

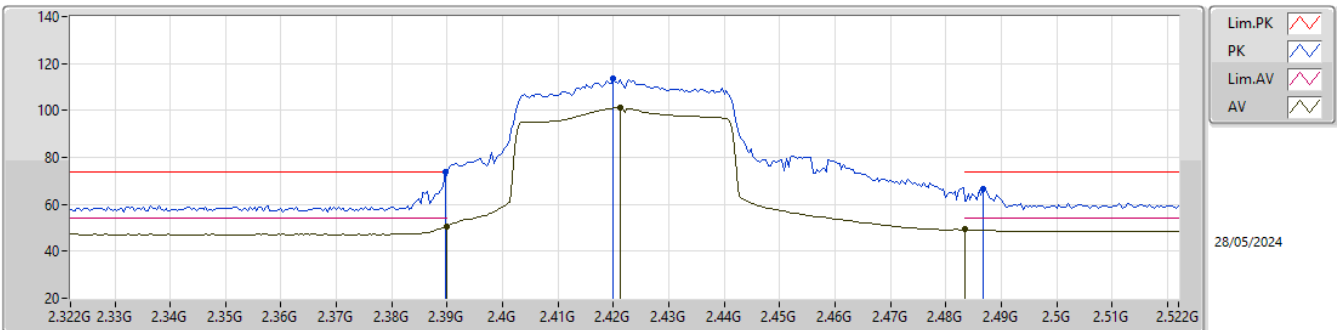
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.01	54.00	-1.99	31.83	3	Vertical	6	2.72	20.18	27.30	4.53	-
AV	2.4212G	103.22	Inf	-Inf	31.97	3	Vertical	6	2.72	71.25	27.41	4.56	-
AV	2.4835G	50.78	54.00	-3.22	32.18	3	Vertical	6	2.72	18.60	27.54	4.64	-
PK	2.3884G	71.78	74.00	-2.22	31.81	3	Vertical	6	2.72	39.97	27.28	4.53	-
PK	2.4232G	115.31	Inf	-Inf	32.00	3	Vertical	6	2.72	83.31	27.43	4.57	-
PK	2.486G	66.23	74.00	-7.77	32.20	3	Vertical	6	2.72	34.03	27.56	4.64	-

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

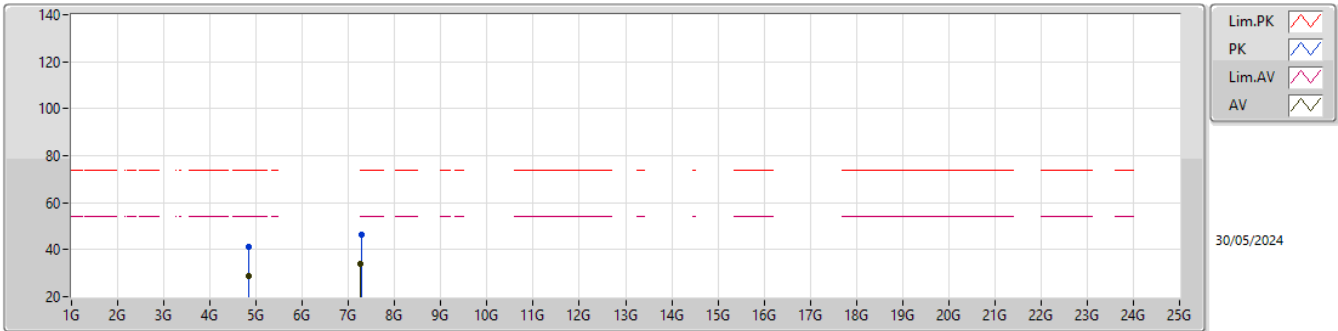
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.72	54.00	-3.28	31.83	3	Horizontal	68	2.82	18.89	27.30	4.53	-
AV	2.4212G	101.30	Inf	-Inf	31.97	3	Horizontal	68	2.82	69.33	27.41	4.56	-
AV	2.4835G	49.27	54.00	-4.73	32.18	3	Horizontal	68	2.82	17.09	27.54	4.64	-
PK	2.42G	113.40	Inf	-Inf	31.96	3	Horizontal	68	2.82	81.44	27.40	4.56	-
PK	2.3896G	73.74	74.00	-0.26	31.83	3	Horizontal	68	2.82	41.91	27.30	4.53	-
PK	2.4868G	66.69	74.00	-7.31	32.21	3	Horizontal	68	2.82	34.48	27.57	4.64	-

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

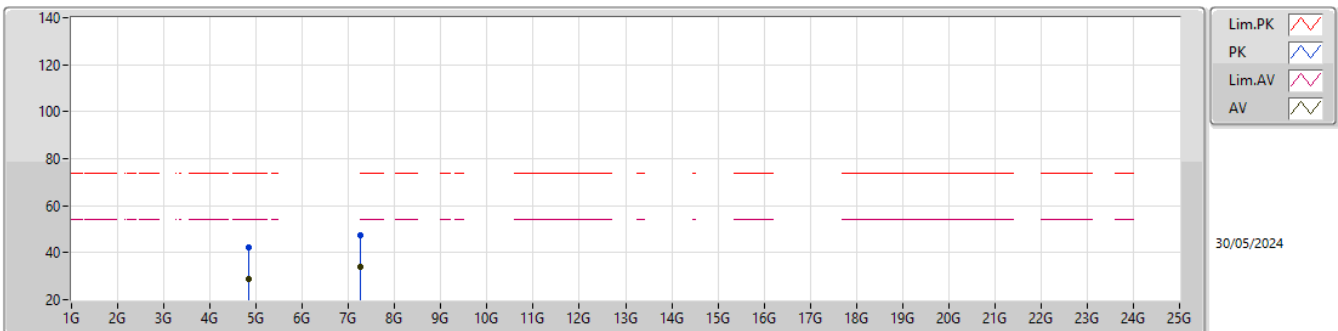
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84804G	28.67	54.00	-25.33	4.13	3	Vertical	47	1.89	24.54	32.39	6.56	34.82
AV	7.26594G	34.06	54.00	-19.94	10.00	3	Vertical	117	2.10	24.06	36.63	8.26	34.89
PK	4.84804G	41.05	74.00	-32.95	4.13	3	Vertical	47	1.89	36.92	32.39	6.56	34.82
PK	7.26988G	46.29	74.00	-27.71	10.00	3	Vertical	117	2.10	36.29	36.64	8.26	34.90

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84876G	28.56	54.00	-25.44	4.14	3	Horizontal	106	1.74	24.42	32.40	6.56	34.82
AV	7.26932G	33.95	54.00	-20.05	10.00	3	Horizontal	95	2.50	23.95	36.64	8.26	34.90
PK	4.84662G	42.18	74.00	-31.82	4.13	3	Horizontal	106	1.74	38.05	32.39	6.56	34.82
PK	7.26642G	47.35	74.00	-26.65	9.99	3	Horizontal	95	2.50	37.36	36.63	8.26	34.90



Summary

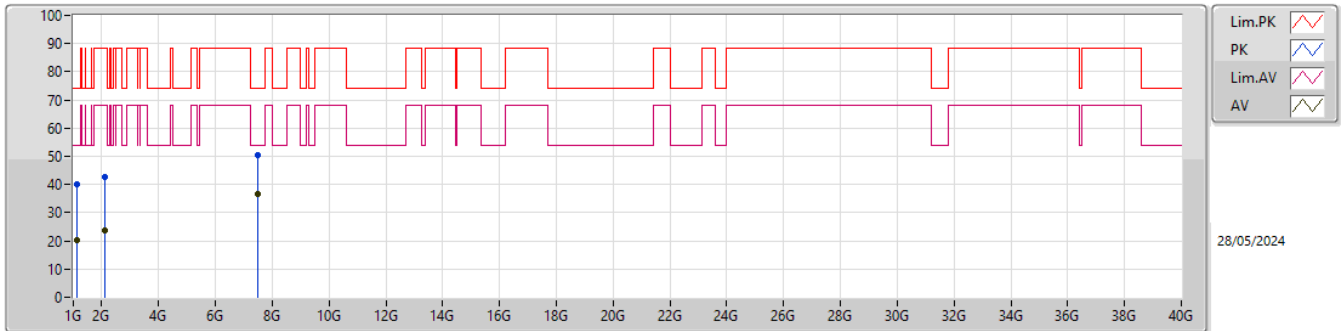
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.47549G	36.43	54.00	-17.57	Vertical
Mode 2	Pass	AV	7.32021G	36.78	54.00	-17.22	Vertical



Result

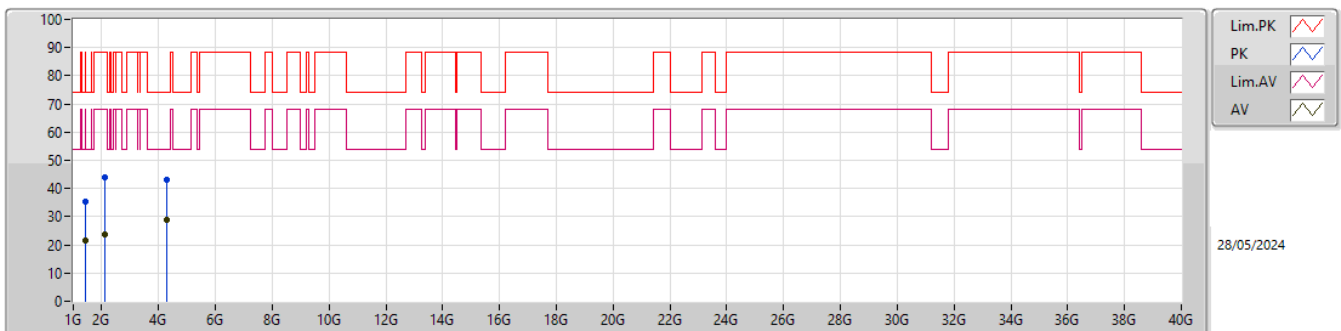
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	1.12017G	20.28	54.00	-33.72	3	Vertical	34	1.16
Mode 1	Pass	AV	2.1295G	23.74	68.20	-44.46	3	Vertical	33	1.65
Mode 1	Pass	AV	7.47549G	36.43	54.00	-17.57	3	Vertical	35	2.20
Mode 1	Pass	PK	1.12017G	40.01	74.00	-33.99	3	Vertical	34	1.16
Mode 1	Pass	PK	2.1295G	42.72	88.20	-45.48	3	Vertical	33	1.65
Mode 1	Pass	PK	7.47549G	50.36	74.00	-23.64	3	Vertical	35	2.20
Mode 1	Pass	AV	1.41494G	21.63	54.00	-32.37	3	Horizontal	39	2.27
Mode 1	Pass	AV	2.12742G	23.59	68.20	-44.61	3	Horizontal	167	1.36
Mode 1	Pass	AV	4.27071G	29.03	54.00	-24.97	3	Horizontal	75	1.62
Mode 1	Pass	PK	1.41494G	35.48	74.00	-38.52	3	Horizontal	39	2.27
Mode 1	Pass	PK	2.12742G	43.97	88.20	-44.23	3	Horizontal	167	1.36
Mode 1	Pass	PK	4.27071G	42.94	74.00	-31.06	3	Horizontal	75	1.62
Mode 2	Pass	AV	1.11992G	20.09	54.00	-33.91	3	Vertical	18	1.07
Mode 2	Pass	AV	2.42724G	22.52	68.20	-45.68	3	Vertical	55	2.49
Mode 2	Pass	AV	7.32021G	36.78	54.00	-17.22	3	Vertical	16	1.58
Mode 2	Pass	PK	1.11992G	40.07	74.00	-33.93	3	Vertical	18	1.07
Mode 2	Pass	PK	2.42724G	43.03	88.20	-45.17	3	Vertical	55	2.49
Mode 2	Pass	PK	7.32021G	51.19	74.00	-22.81	3	Vertical	16	1.58
Mode 2	Pass	AV	2.79333G	25.26	54.00	-28.74	3	Horizontal	129	1.44
Mode 2	Pass	AV	3.88032G	28.09	54.00	-25.91	3	Horizontal	172	1.35
Mode 2	Pass	AV	4.85736G	31.09	54.00	-22.91	3	Horizontal	315	2.04
Mode 2	Pass	PK	2.79333G	39.39	74.00	-34.61	3	Horizontal	129	1.44
Mode 2	Pass	PK	3.88032G	42.46	74.00	-31.54	3	Horizontal	172	1.35
Mode 2	Pass	PK	4.85736G	45.83	74.00	-28.17	3	Horizontal	315	2.04

Radiated Emissions above 1GHz_Mode 1



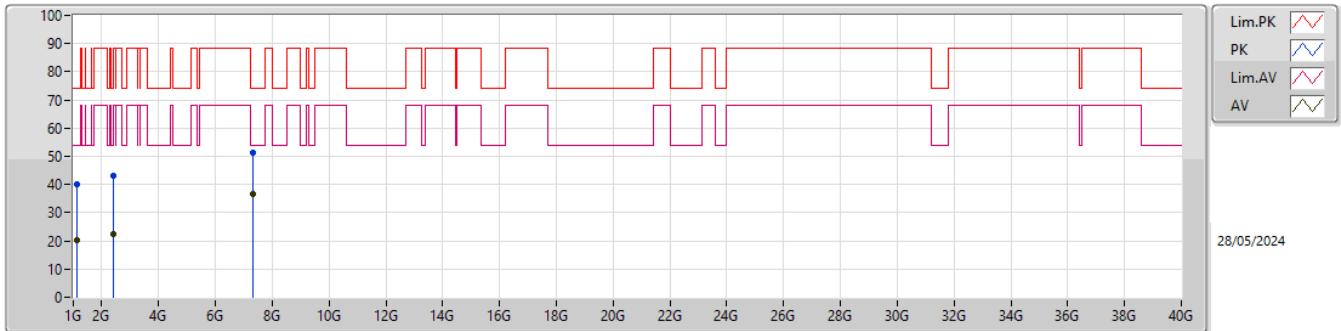
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.12017G	20.28	54.00	-33.72	-16.02	3	Vertical	34	1.16	-	36.30	25.60	3.10	44.72
AV	2.1295G	23.74	68.20	-44.46	-13.22	3	Vertical	33	1.65	-	36.96	27.40	4.27	44.89
AV	7.47549G	36.43	54.00	-17.57	-0.52	3	Vertical	35	2.20	-	36.95	36.40	8.13	45.05
PK	1.12017G	40.01	74.00	-33.99	-16.02	3	Vertical	34	1.16	-	56.03	25.60	3.10	44.72
PK	2.1295G	42.72	88.20	-45.48	-13.22	3	Vertical	33	1.65	-	55.94	27.40	4.27	44.89
PK	7.47549G	50.36	74.00	-23.64	-0.52	3	Vertical	35	2.20	-	50.88	36.40	8.13	45.05

Radiated Emissions above 1GHz_Mode 1



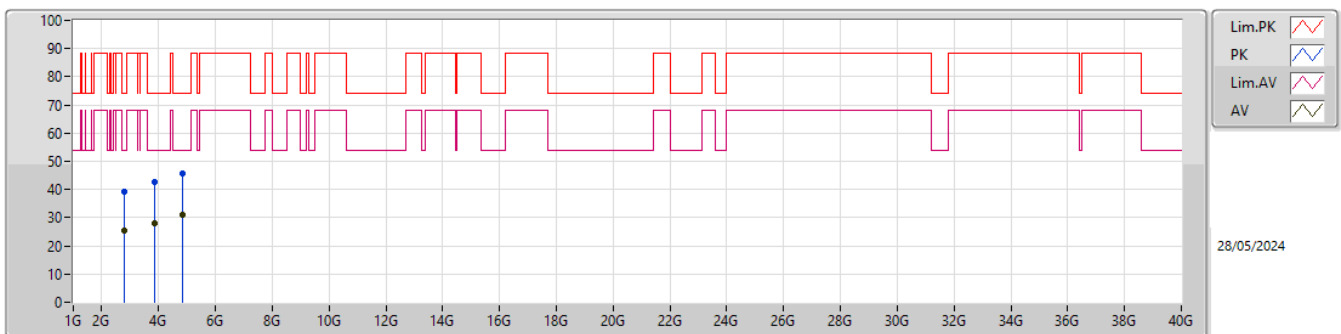
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.41494G	21.63	54.00	-32.37	-15.22	3	Horizontal	39	2.27	-	36.85	26.10	3.45	44.77
AV	2.12742G	23.59	68.20	-44.61	-13.19	3	Horizontal	167	1.36	-	36.78	27.43	4.27	44.89
AV	4.27071G	29.03	54.00	-24.97	-8.28	3	Horizontal	75	1.62	-	37.31	31.38	6.15	45.81
PK	1.41494G	35.48	74.00	-38.52	-15.22	3	Horizontal	39	2.27	-	50.70	26.10	3.45	44.77
PK	2.12742G	43.97	88.20	-44.23	-13.19	3	Horizontal	167	1.36	-	57.16	27.43	4.27	44.89
PK	4.27071G	42.94	74.00	-31.06	-8.28	3	Horizontal	75	1.62	-	51.22	31.38	6.15	45.81

Radiated Emissions above 1GHz_Mode 2



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)
AV	1.11992G	20.09	54.00	-33.91	-16.02	3	Vertical	18	1.07	-	36.11	25.60	3.10	44.72
AV	2.42724G	22.52	68.20	-45.68	-12.77	3	Vertical	55	2.49	-	35.29	27.57	4.62	44.96
AV	7.32021G	36.78	54.00	-17.22	-0.14	3	Vertical	16	1.58	-	36.92	37.08	8.05	45.27
PK	1.11992G	40.07	74.00	-33.93	-16.02	3	Vertical	18	1.07	-	56.09	25.60	3.10	44.72
PK	2.42724G	43.03	88.20	-45.17	-12.77	3	Vertical	55	2.49	-	55.80	27.57	4.62	44.96
PK	7.32021G	51.19	74.00	-22.81	-0.14	3	Vertical	16	1.58	-	51.33	37.08	8.05	45.27

Radiated Emissions above 1GHz_Mode 2



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)
AV	2.79333G	25.26	54.00	-28.74	-11.65	3	Horizontal	129	1.44	-	36.91	28.53	4.91	45.09
AV	3.88032G	28.09	54.00	-25.91	-8.94	3	Horizontal	172	1.35	-	37.03	30.88	5.86	45.68
AV	4.85736G	31.09	54.00	-22.91	-6.22	3	Horizontal	315	2.04	-	37.31	32.61	6.94	45.77
PK	2.79333G	39.39	74.00	-34.61	-11.65	3	Horizontal	129	1.44	-	51.04	28.53	4.91	45.09
PK	3.88032G	42.46	74.00	-31.54	-8.94	3	Horizontal	172	1.35	-	51.40	30.88	5.86	45.68
PK	4.85736G	45.83	74.00	-28.17	-6.22	3	Horizontal	315	2.04	-	52.05	32.61	6.94	45.77