

FCC Radio Test Report

FCC ID : QXO-AP4060
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP4060
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville
North Carolina United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville
North Carolina United States 27560
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 19, 2025, and testing was started from Mar. 26, 2025 and completed on May 16, 2025. 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

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	9
1.3 Testing Location Information	9
1.4 Measurement Uncertainty	9
2 TEST CONFIGURATION OF EUT.....	10
2.1 Test Channel Mode	10
2.2 The Worst Case Measurement Configuration	11
2.3 Support Equipment.....	13
2.4 Test Setup Diagram	14
3 TRANSMITTER TEST RESULT	15
3.1 AC Power-line Conducted Emissions	15
3.2 DTS Bandwidth.....	17
3.3 Maximum Conducted Output Power	18
3.4 Power Spectral Density	20
3.5 Emissions in Non-restricted Frequency Bands	21
3.6 Emissions in Restricted Frequency Bands.....	22
4 TEST EQUIPMENT AND CALIBRATION DATA.....	26
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C11 Ver3.3
FCC ID: QXO-AP4060

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:

None

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std.	Ch. Frequency (MHz)	Channel Number
2400-2483.5	802.15.4	2405-2480	11-26 [16]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.15.4	5	1

Note:.

- ♦ 802.15.4 uses a O-QPSK (250kbps) modulation for DSSS.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Sercomm	6172008GWA-1	PIFA	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
2	Sercomm	6172008GWA-2	PIFA	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
3	Sercomm	6172008GWA-3	Dipole	I-Pex	5G+6G	Radio 3_5GL/6G
4	Sercomm	6172008GWA-4	Dipole	I-Pex	5G+6G	Radio 3_5GL/6G
5	Sercomm	6172008GWA-8	PIFA	I-Pex	2.4G+5G+6G	Radio 1_Scan
6	Sercomm	6172008GWA-5	PIFA	I-Pex	BT+802.15.4	BLE_chain 1_H
7	Sercomm	6172008GWA-6	PIFA	I-Pex	BT+802.15.4	BLE_chain 1_V
8	Sercomm	6172008GWA-7	PIFA	I-Pex	BT+802.15.4	BLE_chain 0
9	Sercomm	6172008GWA-9	PIFA	I-Pex	GPS	GPS



Ant.	Port	Gain (dBi)												
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT1H	BT1V	BT0	GPS
1	1	4.97	3.2	3.51	5.51	5.28	-	-	-	-	-	-	-	-
2	2	3.08	3.51	3.3	4.19	5.82	-	-	-	-	-	-	-	-
3	1	-	10.46	9.56	-	-	11.33	11.31	10.51	11.39	-	-	-	-
4	2	-	9.34	9.87	-	-	10.61	10.75	10.62	10.52	-	-	-	-
5	1	5.33	2.89	3.35	4.93	3.56	4.96	3.88	3.55	4.32	-	-	-	-
6	1	-	-	-	-	-	-	-	-	-	3.15	-	-	-
7	2	-	-	-	-	-	-	-	-	-	-	4.25	-	-
8	1	-	-	-	-	-	-	-	-	-	-	-	3.77	-
9	1	-	-	-	-	-	-	-	-	-	-	-	-	N/A

Ant.		Composite Gain (dBi)								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~2	DG [1SS]	5.62	4.5	5.67	6.92	6.42	-	-	-	-
	DG [2SS]	4.97	3.51	3.51	5.51	5.82	-	-	-	-
3~4	DG [1SS]	-	12.93	12.57	12.57	12.74	13.79	13.99	13.55	13.95
	DG [2SS]	-	10.46	9.87	9.72	9.82	11.33	11.31	10.62	11.39

Ant.	30 Degree Gain (dBi)			
	UNII-1	UNII-5	UNII-6	UNII-7
1~2	1.63	-	-	-
3~4	4.13	0.53	1.38	2.76

Note 1: The EUT has nine antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v02 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP512205-01.

**For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/2RX) < **Radio 1** >

Ant. 1 (port 1) could transmit

Ant. 1 (port 1) and Ant. 2 (port 2) receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) < **Radio 1** >

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

For b20/g20 mode (1TX/1RX) < **Radio 1_Scan** >

Ant. 5 (port 1) could transmit/receive.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode(1TX/2RX) < **Radio 2** >

Ant. 1 (port 1) could transmit

Ant. 1 (port 1) and Ant. 2 (port 2) receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode(2TX/2RX) < **Radio 2** >

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

For IEEE 802.11 a/n/ac/ax/be mode(1TX/2RX) < **Radio 3** > **Low band**

Ant. 3 (port 1) could transmit

Ant. 3 (port 1) and Ant. 4 (port 2) receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode(2TX/2RX) < **Radio 3** > **Low band**

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

For a20/a40/a80/a160 mode (1TX/1RX) < **Radio 1_Scan** >

Ant. 5 (port 1) could transmit/receive.

For 6GHz function:

For IEEE 802.11 a/ax/be mode(1TX/2RX) < **Radio 3** >

Ant. 3 (port 1) could transmit

Ant. 3 (port 1) and Ant. 4 (port 2) receive simultaneously.

For IEEE 802.11 a/ax/be mode(2TX/2RX) < **Radio 3** >

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

For a20/a40/a80/a160 mode(1TX/1RX) < **Radio 1_Scan** >

Ant. 5 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) < **chain 0** >

Ant. 8 (port 1) could transmit/receive.

For IEEE 802.15.1 Bluetooth mode (1TX/2RX) < **chain 1** >

Ant. 6 (port 1) and Ant. 7 (port 2) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Ant. 6(port 1) and it was recorded in this test report.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX) < **chain 0** >

Ant. 8 (port 1) could transmit/receive.

For IEEE 802.15.4 mode (1TX/2RX) < **chain 1** >

Ant. 6 (port 1) and Ant. 7 (port 2) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Ant. 6(port 1) and it was recorded in this test report.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From PoE		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		...
☐	Other:		

1.1.4 Mode Test Duty Cycle

chain 0

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.15.4	0.905	0.43	4.258m	300

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

chain 1

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.15.4	0.908	0.42	4.258m	300

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

1.2 Testing Applied Standards

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

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

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ 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	Lego Lin	23.5~24.3℃ / 52~56%	16/May/2025
Radiated (Co-Location)	03CH02-HY	Daniel Lin	20.5~21.8℃ / 59~63%	12/May/2025~13/May/2025
☒ 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.				
RF Conducted	TH06-HY	Johnny Yu	23.1~23.5℃ / 54~56%	16/Apr/2025~17/Apr/2025
Radiated	03CH26-HY	Ivan Chung	22.1~23.1℃ / 50~54%	26/Mar/2025~15/Apr/2025

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	PuTTY release 0.62
------------------------------	--------------------

Mode	Power Setting
802.15.4	-
2405MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C

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	PoE 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	PoE Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V (chain 1)		V (chain 0)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain0)
2	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain0)
3	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain1)
4	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+BT(chain1)
5	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+IEEE 802.15.4 (chain0)
6	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+IEEE 802.15.4 (chain0)
7	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+IEEE 802.15.4 (chain1)
8	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G +R1:Scan 6G+IEEE 802.15.4(chain1)
Refer to Sporton Test Report No.: FA512205-01 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

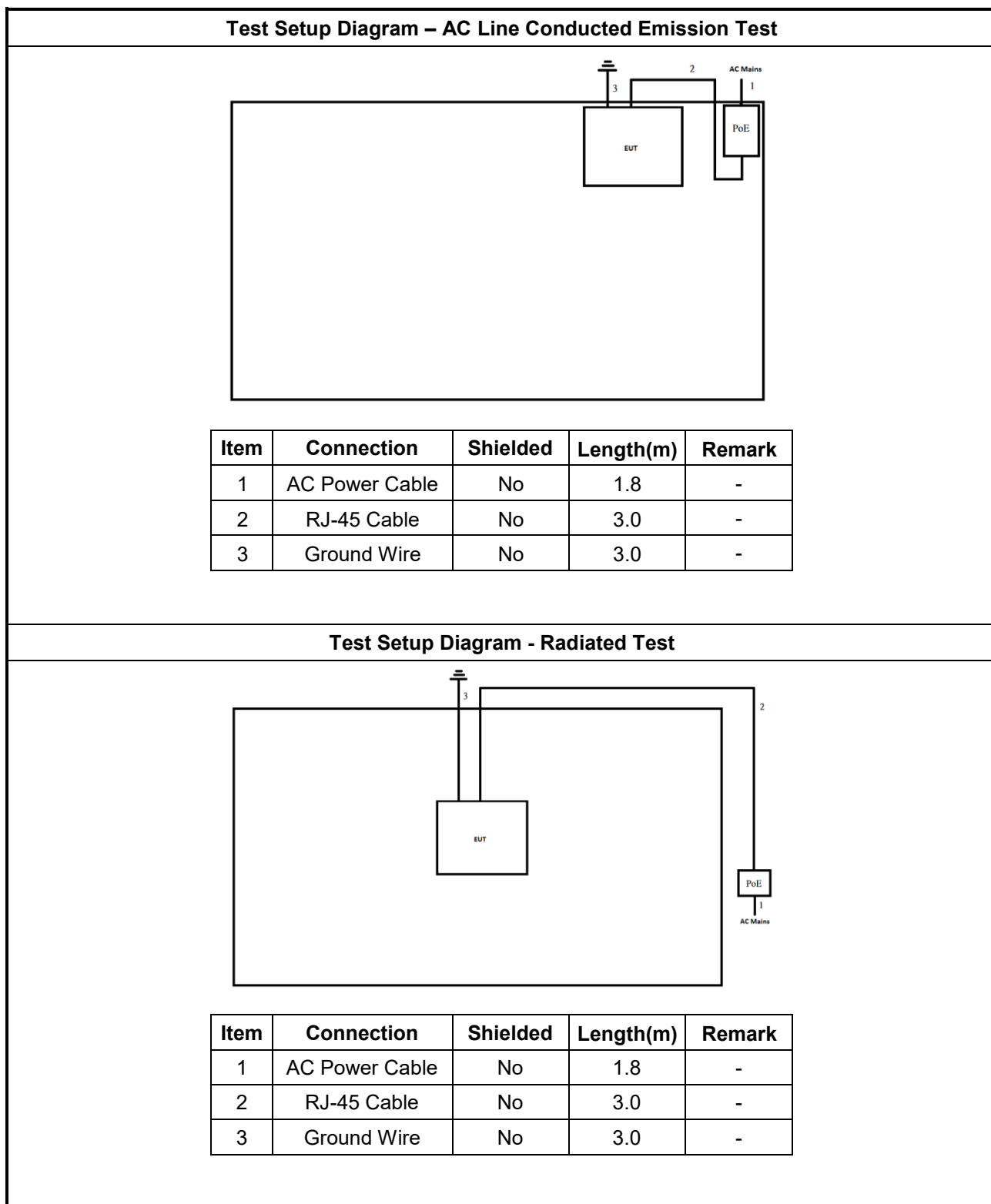
2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CAT-6E-03	-	-
2	Ground Wire	Sporton	Sporton	-	-
3	PoE	PHIHONG	POE60U-1BT-X	-	Provided by Customer
4	AC Power Cable	Power sync	PW-GPC180-3	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	PoE	PHIHONG	POE60U-1BT-X	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CAT-6E-03	-	-
2	Ground Wire	Sporton	Sporton	-	-
3	PoE	PHIHONG	POE60U-1BT-X	-	Remote Provided by Customer
4	AC Power Cable	Power sync	PW-GPC180-3	-	Remote

2.4 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

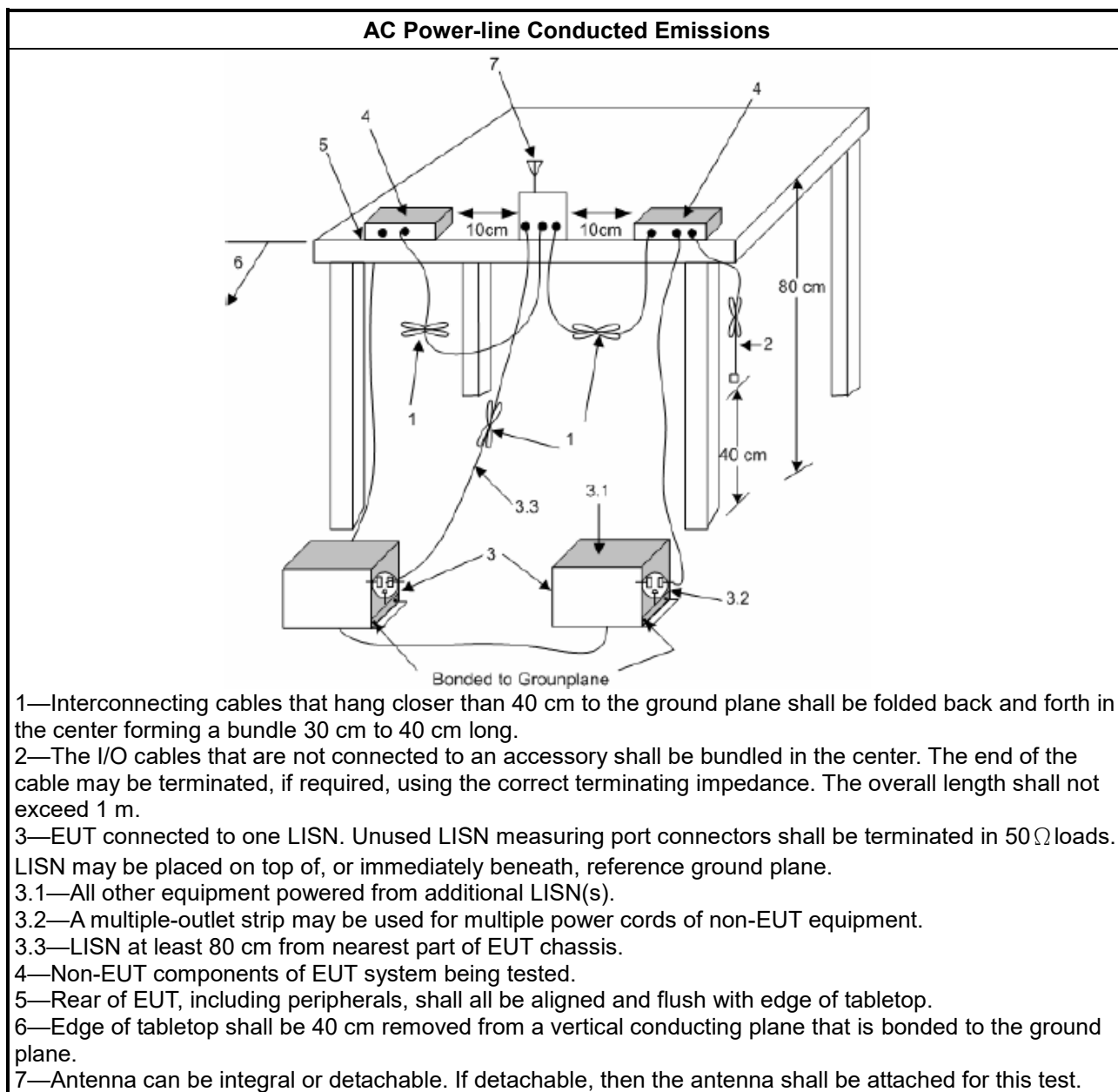
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

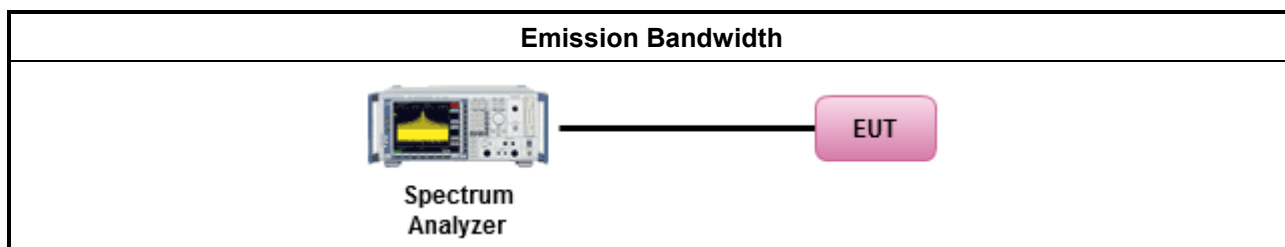
3.2.2 Measuring Instruments

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:
☒	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☒	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	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	
	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
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

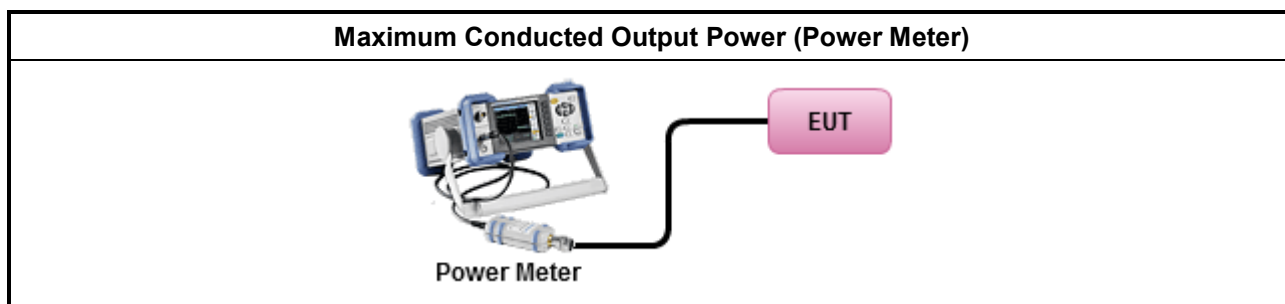
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

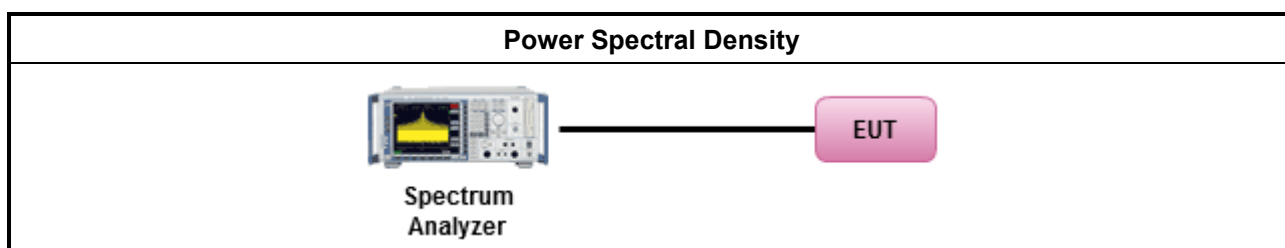
3.4.2 Measuring Instruments

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 KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

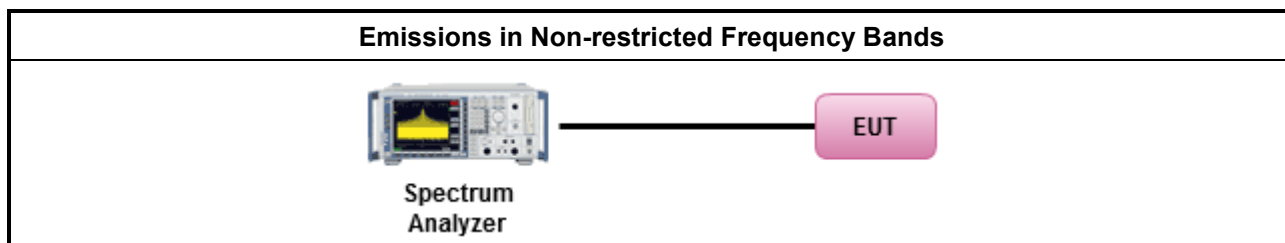
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

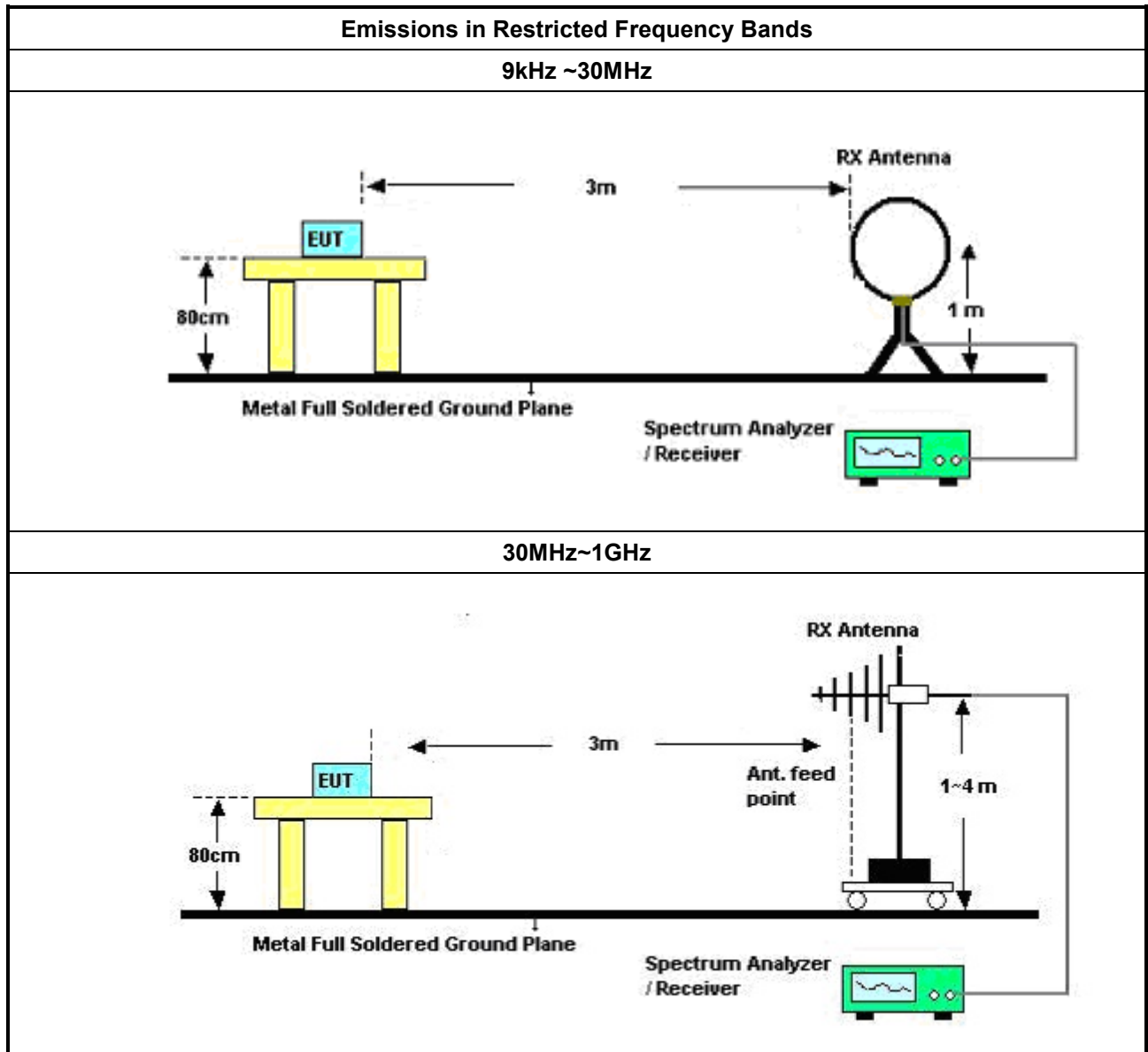
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted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

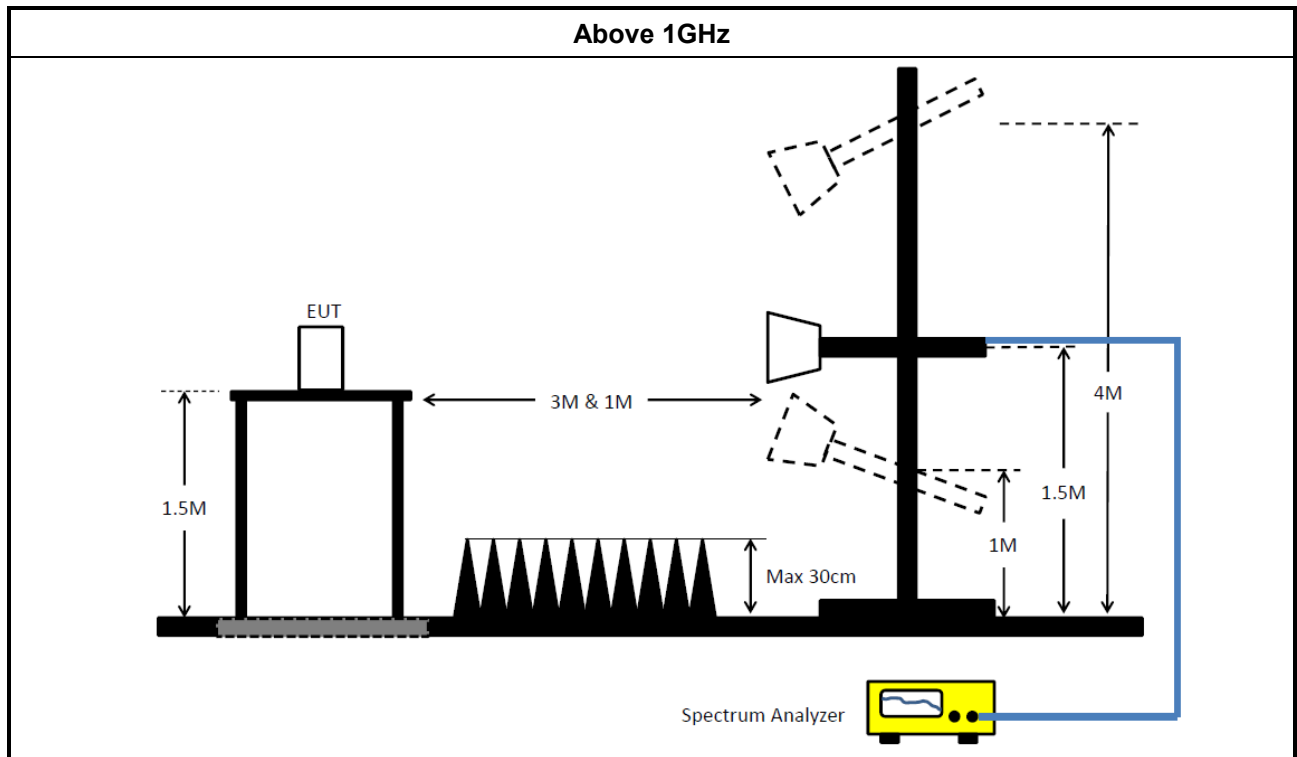
3.6.4 Measurement Results Calculation

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	102052	9kHz ~ 3.6GHz	14/May/2025	13/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	18/Apr/2025	17/Apr/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
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	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	28/Mar/2025	27/Mar/2026
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	28/Mar/2025	27/Mar/2026
SENSE-15247_FS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH26-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	07/Aug/2024	06/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	05/Jun/2024	04/Jun/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	21/Oct/2024	20/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.23	NA	NA	NA	NA

Instrument for Radiated Test (Co-Location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	26/Mar/2025	25/Mar/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	13/Feb/2025	12/Feb/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	26/Apr/2025	25/Apr/2026
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline_chain 0

Appendix A.1

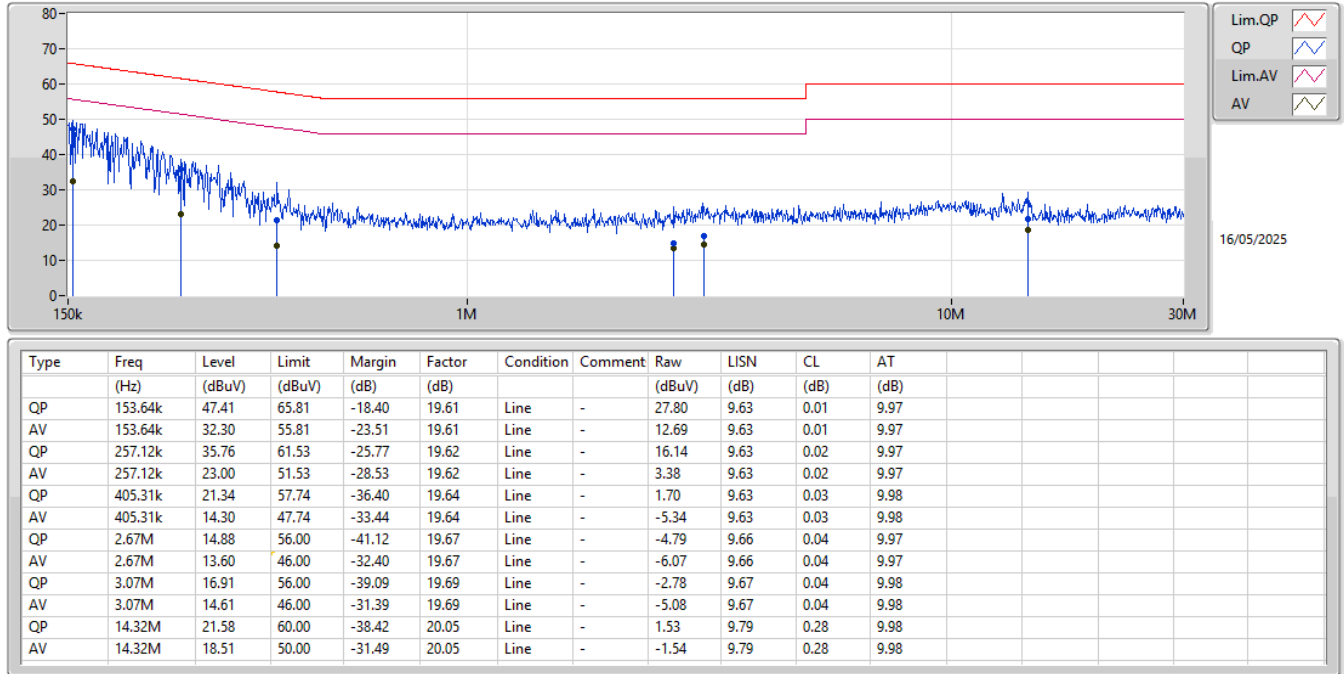
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	155.49k	47.43	65.69	-18.26	Neutral

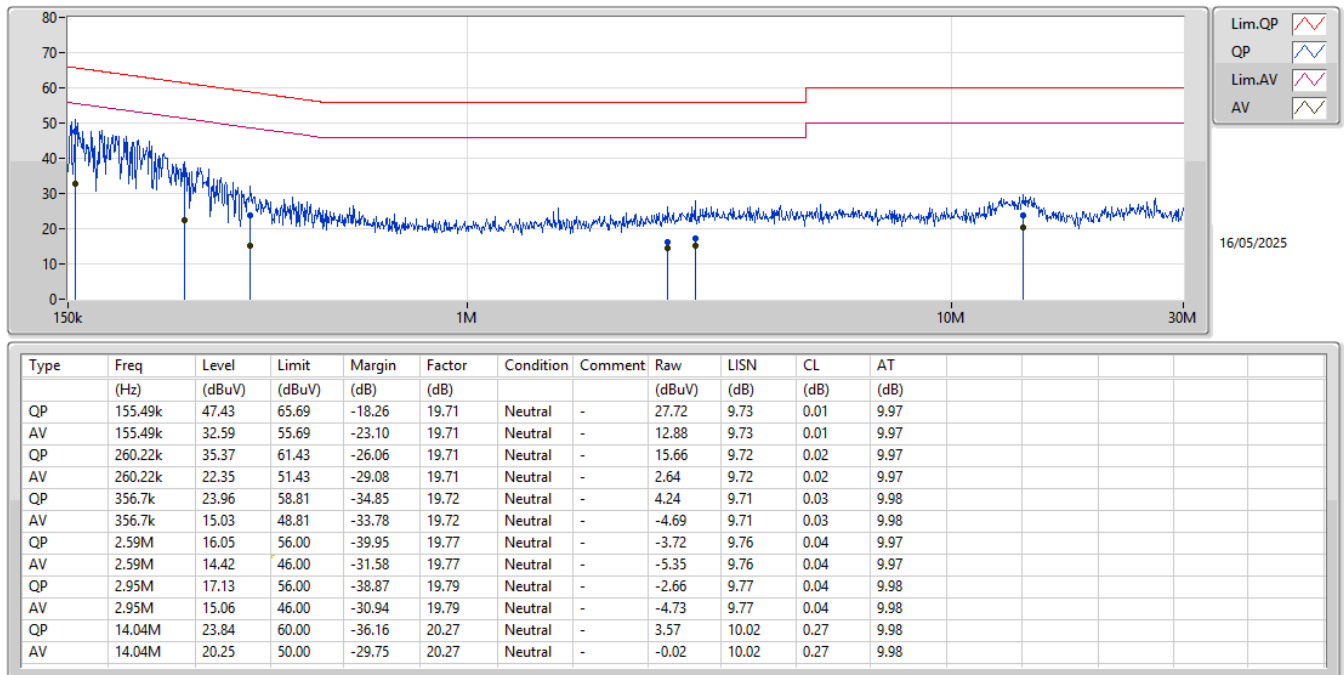
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.64k	47.41	65.81	-18.40	Line
Mode 1	Pass	AV	153.64k	32.30	55.81	-23.51	Line
Mode 1	Pass	QP	257.12k	35.76	61.53	-25.77	Line
Mode 1	Pass	AV	257.12k	23.00	51.53	-28.53	Line
Mode 1	Pass	QP	405.31k	21.34	57.74	-36.40	Line
Mode 1	Pass	AV	405.31k	14.30	47.74	-33.44	Line
Mode 1	Pass	QP	2.67M	14.88	56.00	-41.12	Line
Mode 1	Pass	AV	2.67M	13.60	46.00	-32.40	Line
Mode 1	Pass	QP	3.07M	16.91	56.00	-39.09	Line
Mode 1	Pass	AV	3.07M	14.61	46.00	-31.39	Line
Mode 1	Pass	QP	14.32M	21.58	60.00	-38.42	Line
Mode 1	Pass	AV	14.32M	18.51	50.00	-31.49	Line
Mode 1	Pass	QP	155.49k	47.43	65.69	-18.26	Neutral
Mode 1	Pass	AV	155.49k	32.59	55.69	-23.10	Neutral
Mode 1	Pass	QP	260.22k	35.37	61.43	-26.06	Neutral
Mode 1	Pass	AV	260.22k	22.35	51.43	-29.08	Neutral
Mode 1	Pass	QP	356.7k	23.96	58.81	-34.85	Neutral
Mode 1	Pass	AV	356.7k	15.03	48.81	-33.78	Neutral
Mode 1	Pass	QP	2.59M	16.05	56.00	-39.95	Neutral
Mode 1	Pass	AV	2.59M	14.42	46.00	-31.58	Neutral
Mode 1	Pass	QP	2.95M	17.13	56.00	-38.87	Neutral
Mode 1	Pass	AV	2.95M	15.06	46.00	-30.94	Neutral
Mode 1	Pass	QP	14.04M	23.84	60.00	-36.16	Neutral
Mode 1	Pass	AV	14.04M	20.25	50.00	-29.75	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1





Conducted Emissions at Powerline_chain 1

Appendix A.2

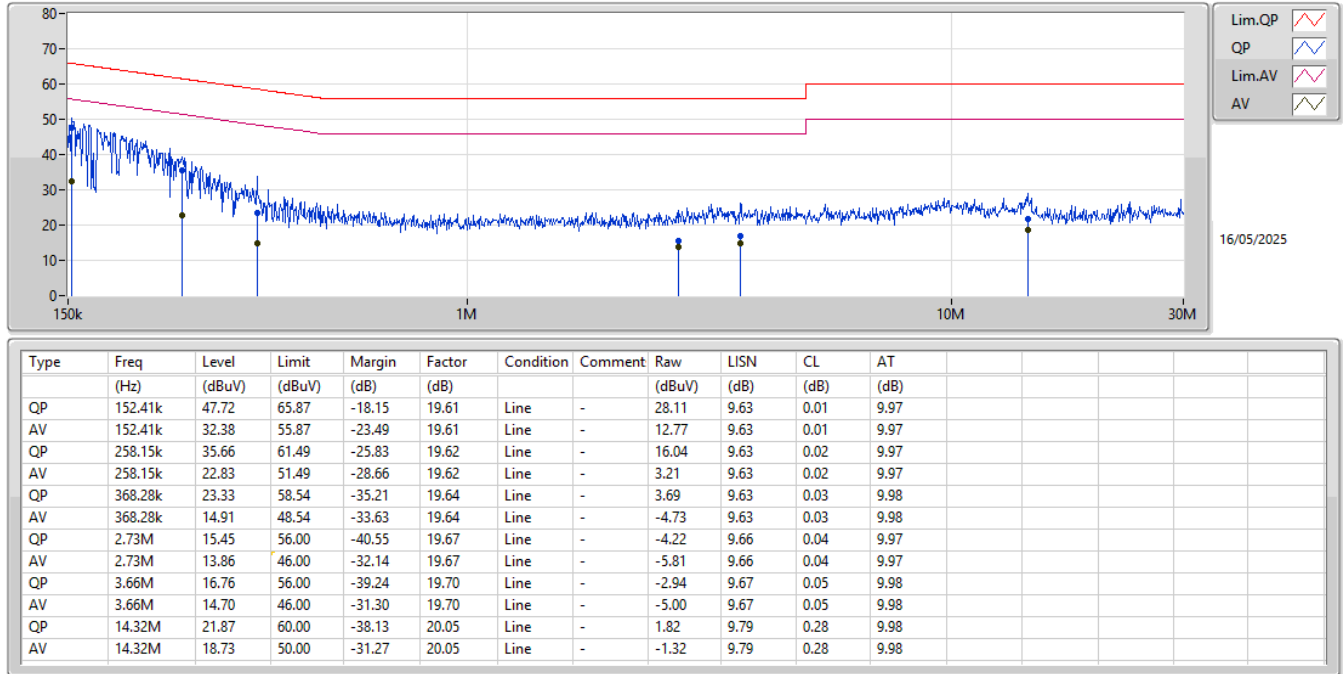
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	155.49k	47.59	65.69	-18.10	Neutral

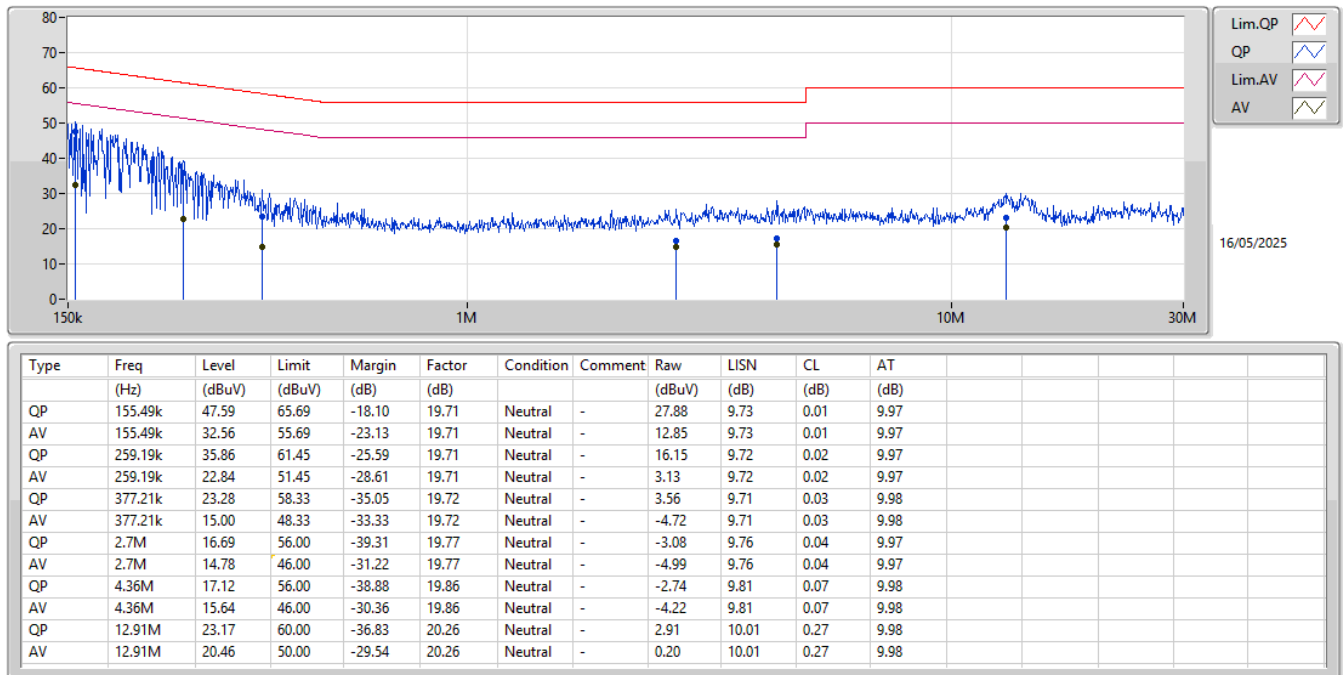
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	152.41k	47.72	65.87	-18.15	Line
Mode 1	Pass	AV	152.41k	32.38	55.87	-23.49	Line
Mode 1	Pass	QP	258.15k	35.66	61.49	-25.83	Line
Mode 1	Pass	AV	258.15k	22.83	51.49	-28.66	Line
Mode 1	Pass	QP	368.28k	23.33	58.54	-35.21	Line
Mode 1	Pass	AV	368.28k	14.91	48.54	-33.63	Line
Mode 1	Pass	QP	2.73M	15.45	56.00	-40.55	Line
Mode 1	Pass	AV	2.73M	13.86	46.00	-32.14	Line
Mode 1	Pass	QP	3.66M	16.76	56.00	-39.24	Line
Mode 1	Pass	AV	3.66M	14.70	46.00	-31.30	Line
Mode 1	Pass	QP	14.32M	21.87	60.00	-38.13	Line
Mode 1	Pass	AV	14.32M	18.73	50.00	-31.27	Line
Mode 1	Pass	QP	155.49k	47.59	65.69	-18.10	Neutral
Mode 1	Pass	AV	155.49k	32.56	55.69	-23.13	Neutral
Mode 1	Pass	QP	259.19k	35.86	61.45	-25.59	Neutral
Mode 1	Pass	AV	259.19k	22.84	51.45	-28.61	Neutral
Mode 1	Pass	QP	377.21k	23.28	58.33	-35.05	Neutral
Mode 1	Pass	AV	377.21k	15.00	48.33	-33.33	Neutral
Mode 1	Pass	QP	2.7M	16.69	56.00	-39.31	Neutral
Mode 1	Pass	AV	2.7M	14.78	46.00	-31.22	Neutral
Mode 1	Pass	QP	4.36M	17.12	56.00	-38.88	Neutral
Mode 1	Pass	AV	4.36M	15.64	46.00	-30.36	Neutral
Mode 1	Pass	QP	12.91M	23.17	60.00	-36.83	Neutral
Mode 1	Pass	AV	12.91M	20.46	50.00	-29.54	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.15.4	1.719M	2.374M	2M37D1D	1.494M	2.33M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.15.4	-	-	-	-
2405MHz	Pass	500k	1.494M	2.374M
2440MHz	Pass	500k	1.719M	2.33M
2480MHz	Pass	500k	1.569M	2.349M

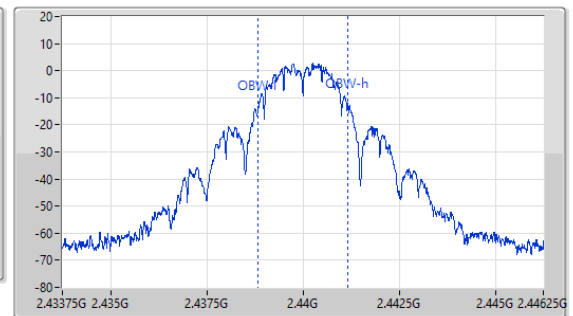
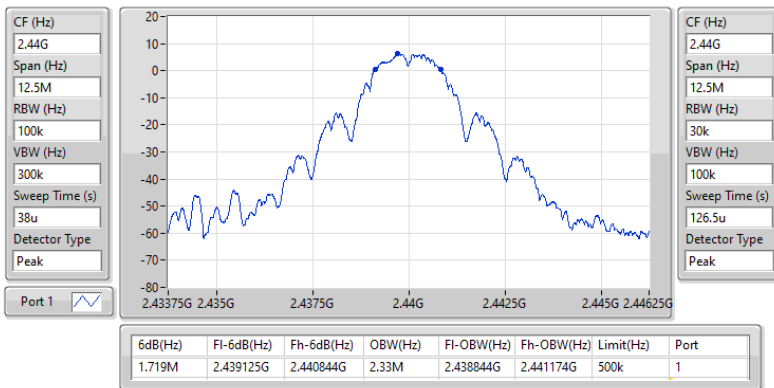
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.15.4

EBW-DTS

2440MHz

16/04/2025





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.15.4	1.594M	2.355M	2M36D1D	1.55M	2.318M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.15.4	-	-	-	-
2405MHz	Pass	500k	1.55M	2.355M
2440MHz	Pass	500k	1.55M	2.318M
2480MHz	Pass	500k	1.594M	2.355M

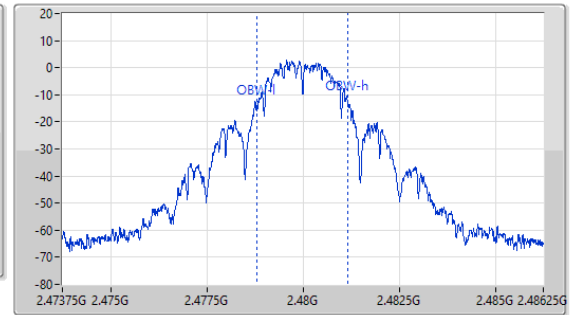
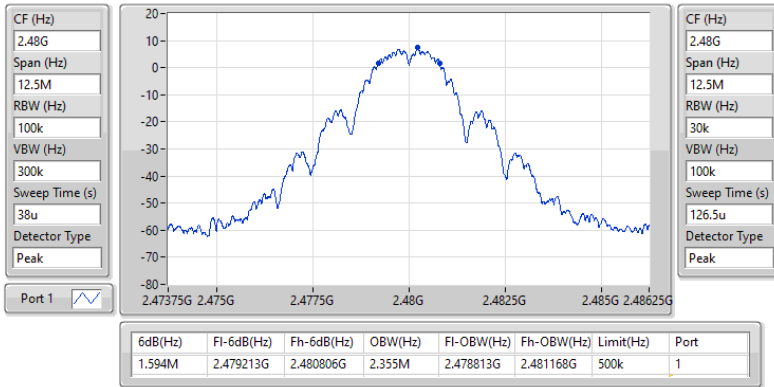
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.15.4

EBW-DTS

2480MHz

16/04/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.15.4	12.38	0.01730



Average Power-DTS_chain 0

Appendix C.1

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
802.15.4	-	-	-	-
2405MHz	Pass	3.77	12.21	30.00
2440MHz	Pass	3.77	12.38	30.00
2480MHz	Pass	3.77	12.10	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	-	-
802.15.4	12.48	0.01770



Average Power-DTS_chain 1

Appendix C.2

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
802.15.4	-	-	-	-
2405MHz	Pass	3.15	12.10	30.00
2440MHz	Pass	3.15	12.48	30.00
2480MHz	Pass	3.15	12.34	30.00

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	-
802.15.4	-3.88

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.15.4	-	-	-	-
2405MHz	Pass	3.77	-4.12	8.00
2440MHz	Pass	3.77	-3.88	8.00
2480MHz	Pass	3.77	-4.05	8.00

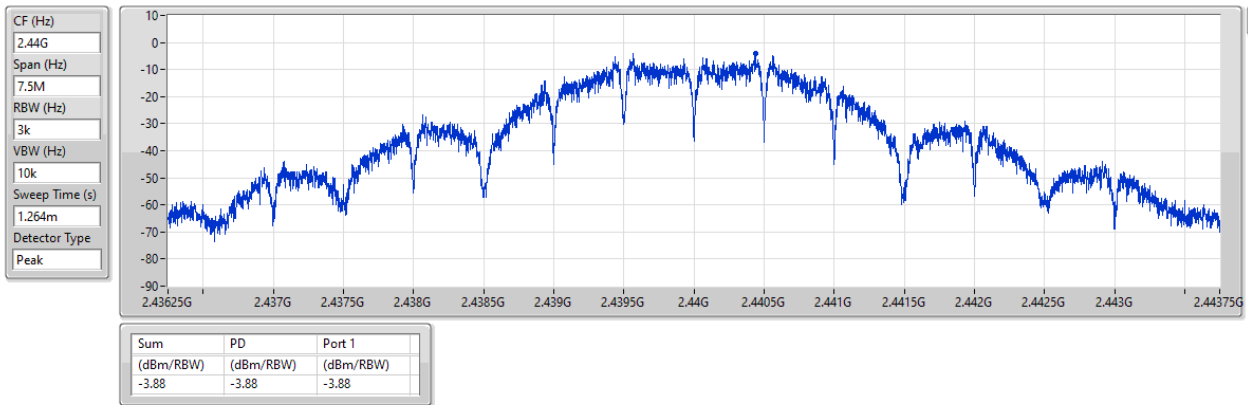
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.15.4

PSD

2440MHz

16/04/2025





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.15.4	-3.64

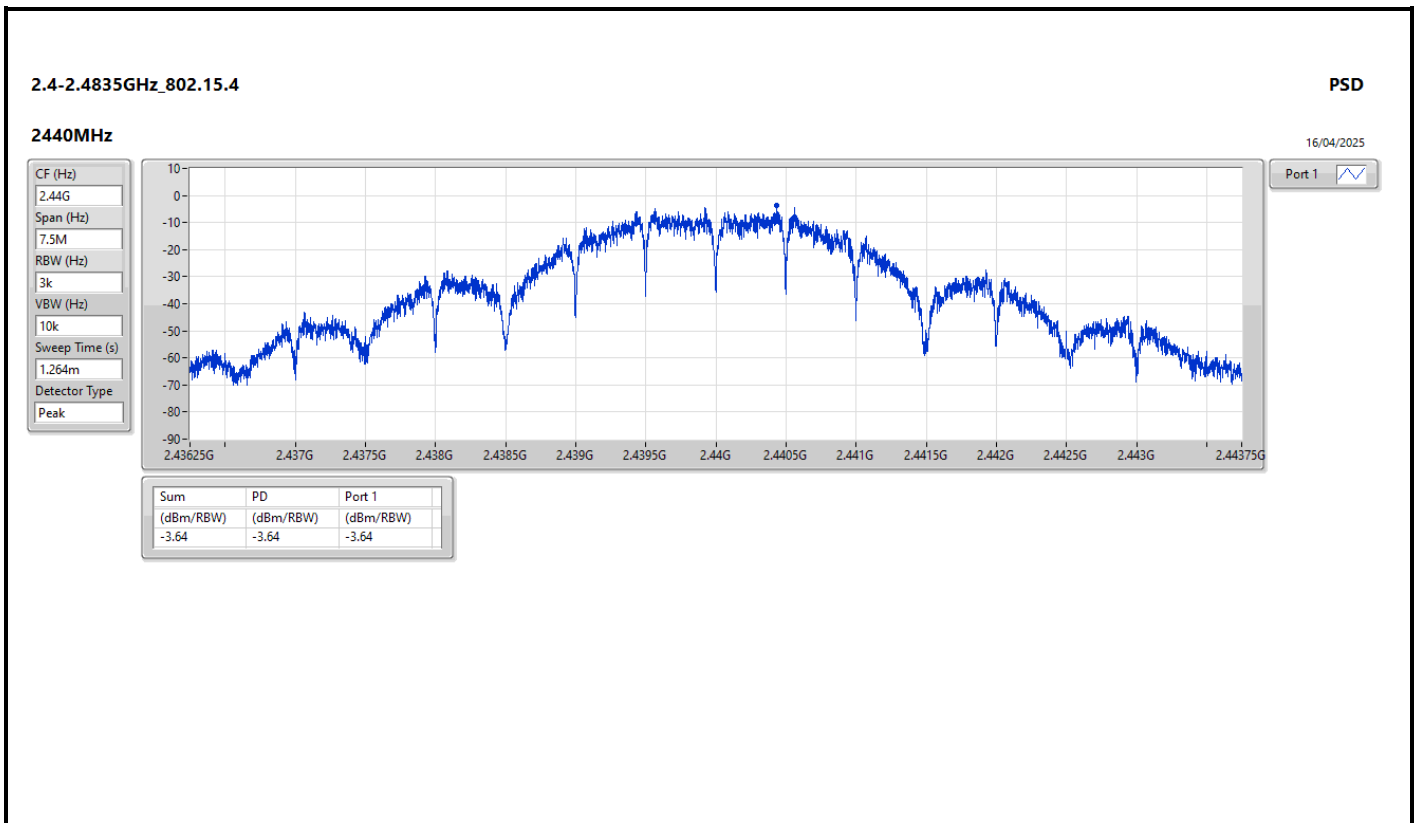
RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.15.4	-	-	-	-
2405MHz	Pass	3.15	-5.29	8.00
2440MHz	Pass	3.15	-3.64	8.00
2480MHz	Pass	3.15	-3.64	8.00

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.



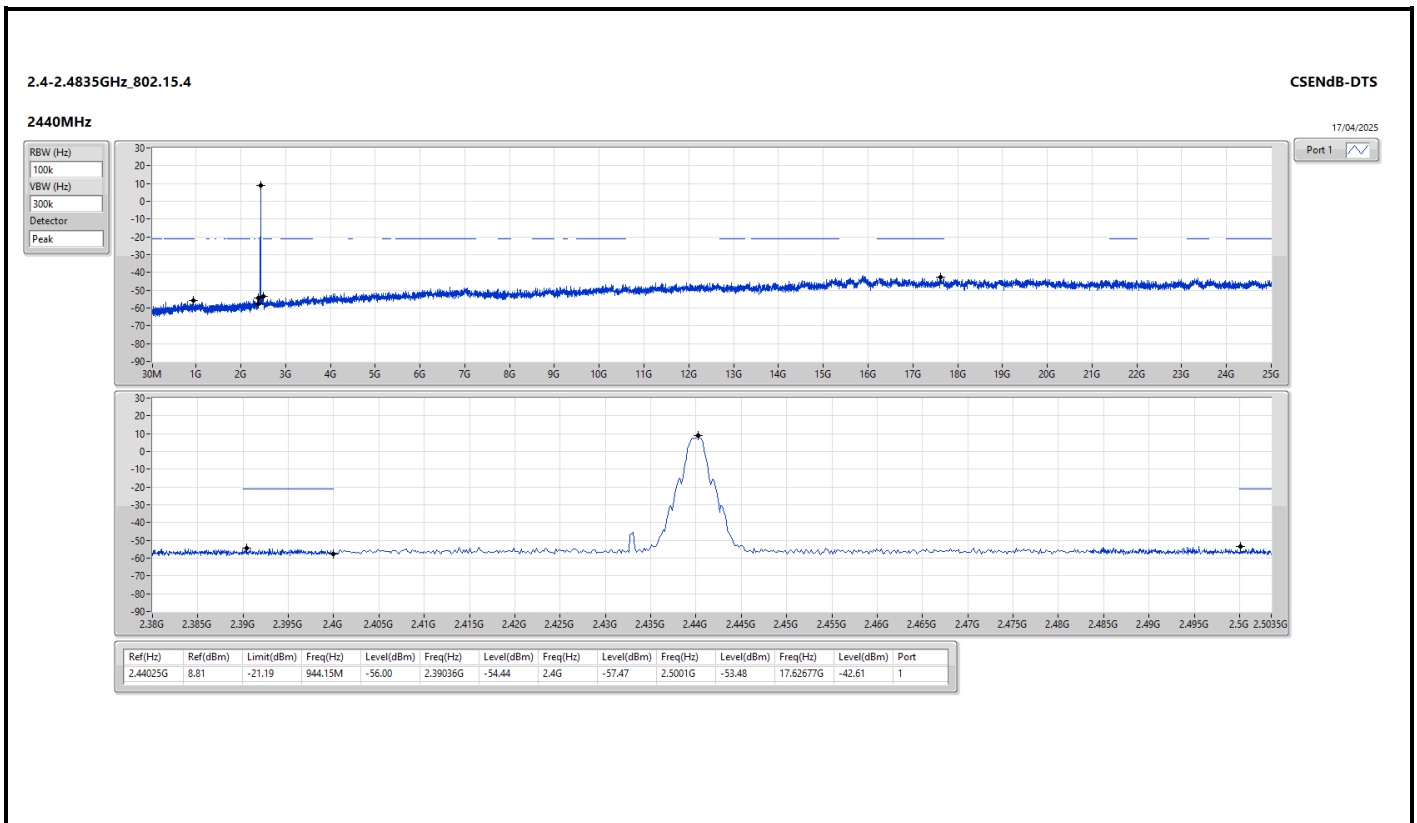


Summary

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	2.44025G	8.81	-21.19	944.15M	-56.00	2.39036G	-54.44	2.4G	-57.47	2.5001G	-53.48	17.62677G	-42.61	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
802.15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.44025G	8.81	-21.19	878.35M	-55.20	2.3998G	-53.89	2.4G	-53.61	2.50126G	-54.23	17.59303G	-42.43	1
2440MHz	Pass	2.44025G	8.81	-21.19	944.15M	-56.00	2.39036G	-54.44	2.4G	-57.47	2.5001G	-53.48	17.62677G	-42.61	1
2480MHz	Pass	2.44025G	8.81	-21.19	2.11093G	-56.07	2.39576G	-54.63	2.4G	-55.68	2.50306G	-55.23	15.27026G	-42.46	1



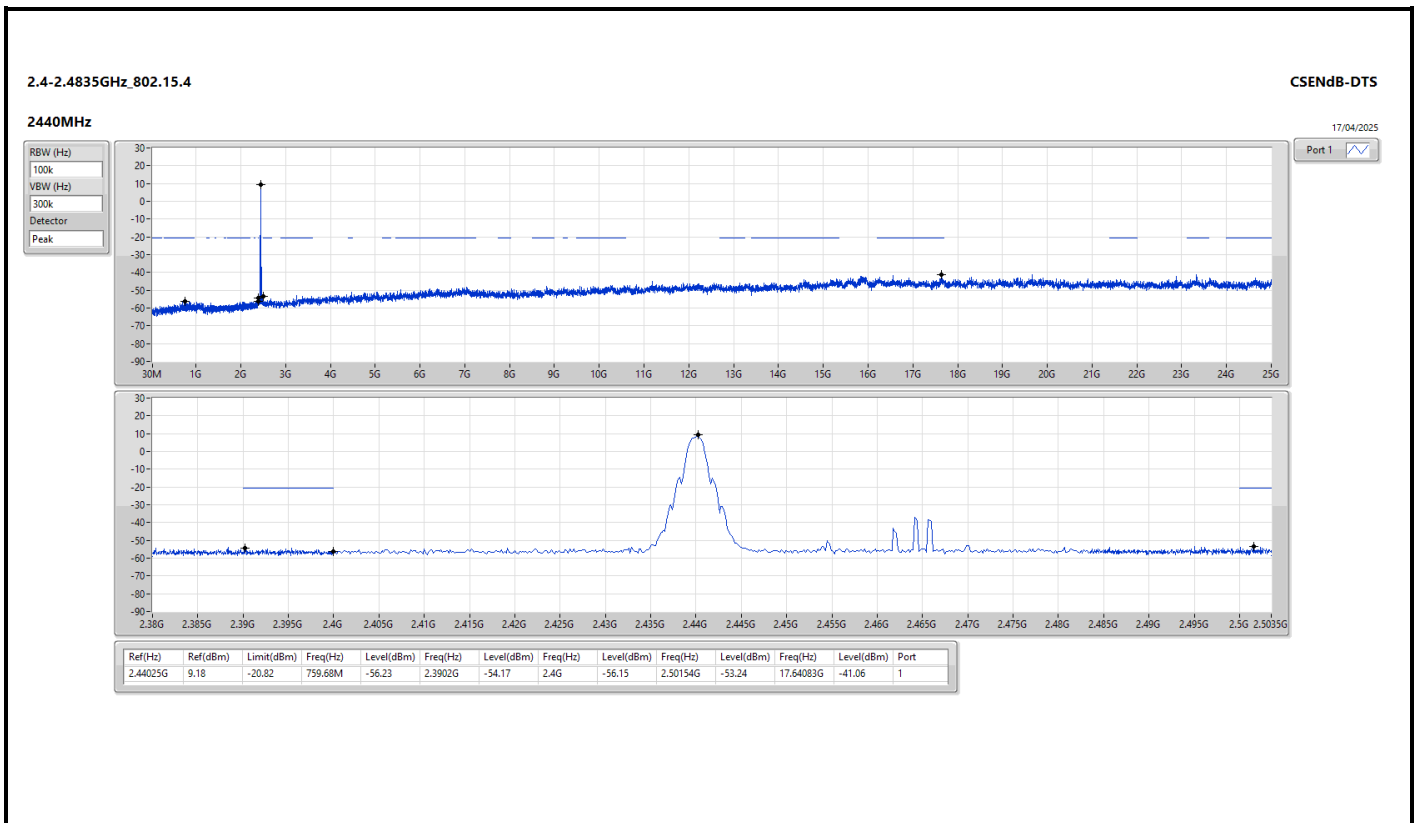


Summary

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	2.44025G	9.18	-20.82	759.68M	-56.23	2.3902G	-54.17	2.4G	-56.15	2.50154G	-53.24	17.64083G	-41.06	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
802.15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.44025G	9.18	-20.82	800.8M	-55.90	2.39948G	-53.71	2.4G	-55.07	2.50222G	-54.07	16.24605G	-42.43	1
2440MHz	Pass	2.44025G	9.18	-20.82	759.68M	-56.23	2.3902G	-54.17	2.4G	-56.15	2.50154G	-53.24	17.64083G	-41.06	1
2480MHz	Pass	2.44025G	9.18	-20.82	2.3001G	-55.40	2.39892G	-54.67	2.4G	-56.68	2.5035G	-54.44	16.29667G	-42.17	1





Summary

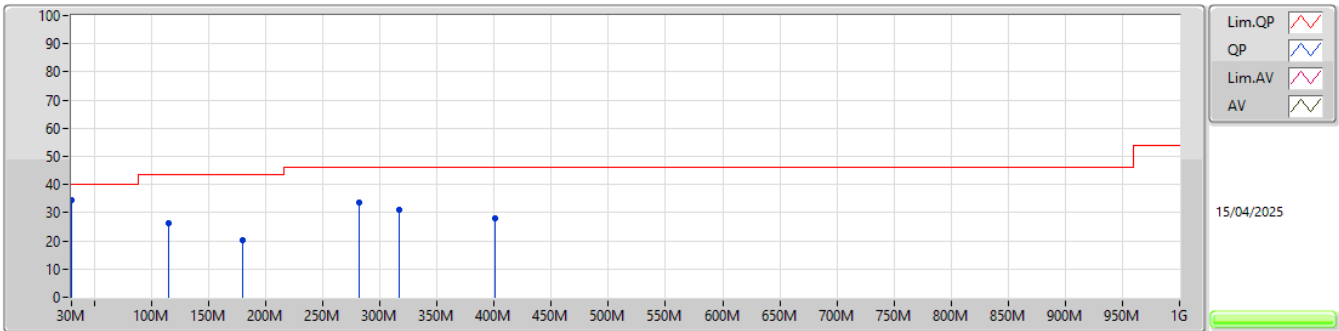
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	PK	30M	34.68	40.00	-5.32	3	Vertical	360	1.00

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	34.68	40.00	-5.32	3	Vertical	360	1.00
2440MHz	Pass	PK	115.36M	26.47	43.50	-17.03	3	Vertical	360	1.00
2440MHz	Pass	PK	179.38M	20.36	43.50	-23.14	3	Vertical	360	1.00
2440MHz	Pass	PK	282.2M	33.65	46.00	-12.35	3	Vertical	360	1.00
2440MHz	Pass	PK	317.12M	31.16	46.00	-14.84	3	Vertical	360	1.00
2440MHz	Pass	PK	400.54M	27.94	46.00	-18.06	3	Vertical	360	1.00
2440MHz	Pass	PK	30M	26.43	40.00	-13.57	3	Horizontal	0	1.00
2440MHz	Pass	PK	78.5M	16.90	40.00	-23.10	3	Horizontal	0	1.00
2440MHz	Pass	PK	181.32M	22.03	43.50	-21.47	3	Horizontal	0	1.00
2440MHz	Pass	PK	284.14M	37.81	46.00	-8.19	3	Horizontal	0	1.00
2440MHz	Pass	PK	319.06M	32.79	46.00	-13.21	3	Horizontal	0	1.00
2440MHz	Pass	PK	400.54M	28.54	46.00	-17.46	3	Horizontal	0	1.00

2.4-2.4835GHz_802.15.4

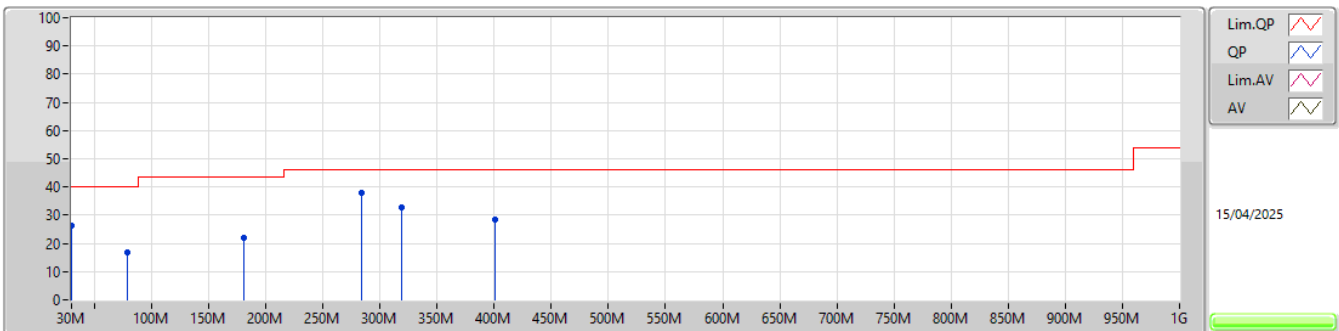
2440MHz_PoE



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	34.68	40.00	-5.32	-18.87	3	Vertical	360	1.00	53.55	24.67	0.78	44.32
PK	115.36M	26.47	43.50	-17.03	-26.02	3	Vertical	360	1.00	52.49	17.34	1.25	44.61
PK	179.38M	20.36	43.50	-23.14	-27.89	3	Vertical	360	1.00	48.25	15.16	1.54	44.59
PK	282.2M	33.65	46.00	-12.35	-23.38	3	Vertical	360	1.00	57.03	19.06	1.93	44.37
PK	317.12M	31.16	46.00	-14.84	-22.69	3	Vertical	360	1.00	53.85	19.53	2.07	44.29
PK	400.54M	27.94	46.00	-18.06	-19.84	3	Vertical	360	1.00	47.78	22.00	2.26	44.10

2.4-2.4835GHz_802.15.4

2440MHz_PoE



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	26.43	40.00	-13.57	-18.87	3	Horizontal	0	1.00	45.30	24.67	0.78	44.32
PK	78.5M	16.90	40.00	-23.10	-30.32	3	Horizontal	0	1.00	47.22	13.34	1.04	44.70
PK	181.32M	22.03	43.50	-21.47	-27.95	3	Horizontal	0	1.00	49.98	15.09	1.55	44.59
PK	284.14M	37.81	46.00	-8.19	-23.31	3	Horizontal	0	1.00	61.12	19.11	1.94	44.36
PK	319.06M	32.79	46.00	-13.21	-22.66	3	Horizontal	0	1.00	55.45	19.55	2.08	44.29
PK	400.54M	28.54	46.00	-17.46	-19.84	3	Horizontal	0	1.00	48.38	22.00	2.26	44.10



Summary

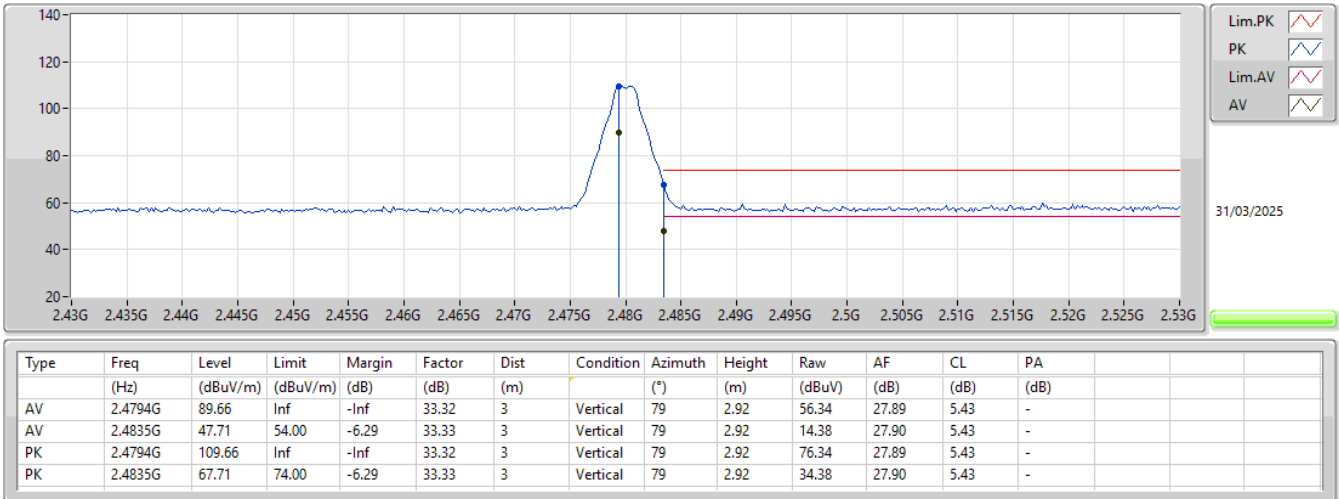
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	AV	2.4835G	47.71	54.00	-6.29	3	Vertical	79	2.92

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	2.3838G	37.78	54.00	-16.22	3	Vertical	224	3.00
2405MHz	Pass	AV	2.4046G	89.93	Inf	-Inf	3	Vertical	224	3.00
2405MHz	Pass	PK	2.3838G	57.78	74.00	-16.22	3	Vertical	224	3.00
2405MHz	Pass	PK	2.4046G	109.93	Inf	-Inf	3	Vertical	224	3.00
2405MHz	Pass	AV	2.3566G	38.68	54.00	-15.32	3	Horizontal	199	2.79
2405MHz	Pass	AV	2.4046G	86.69	Inf	-Inf	3	Horizontal	199	2.79
2405MHz	Pass	PK	2.3566G	58.68	74.00	-15.32	3	Horizontal	199	2.79
2405MHz	Pass	PK	2.4046G	106.69	Inf	-Inf	3	Horizontal	199	2.79
2405MHz	Pass	AV	4.81118G	24.93	54.00	-29.07	3	Vertical	99	1.01
2405MHz	Pass	PK	4.81118G	44.93	74.00	-29.07	3	Vertical	99	1.01
2405MHz	Pass	AV	4.81002G	24.49	54.00	-29.51	3	Horizontal	86	2.72
2405MHz	Pass	PK	4.81002G	44.49	74.00	-29.51	3	Horizontal	86	2.72
2440MHz	Pass	AV	2.36G	37.77	54.00	-16.23	3	Vertical	80	2.92
2440MHz	Pass	AV	2.4396G	88.62	Inf	-Inf	3	Vertical	80	2.92
2440MHz	Pass	AV	2.4852G	38.06	54.00	-15.94	3	Vertical	80	2.92
2440MHz	Pass	PK	2.36G	57.77	74.00	-16.23	3	Vertical	80	2.92
2440MHz	Pass	PK	2.4396G	108.62	Inf	-Inf	3	Vertical	80	2.92
2440MHz	Pass	PK	2.4852G	58.06	74.00	-15.94	3	Vertical	80	2.92
2440MHz	Pass	AV	2.3564G	38.28	54.00	-15.72	3	Horizontal	200	2.95
2440MHz	Pass	AV	2.4396G	87.10	Inf	-Inf	3	Horizontal	200	2.95
2440MHz	Pass	AV	2.484G	38.32	54.00	-15.68	3	Horizontal	200	2.95
2440MHz	Pass	PK	2.3564G	58.28	74.00	-15.72	3	Horizontal	200	2.95
2440MHz	Pass	PK	2.4396G	107.10	Inf	-Inf	3	Horizontal	200	2.95
2440MHz	Pass	PK	2.484G	58.32	74.00	-15.68	3	Horizontal	200	2.95
2440MHz	Pass	AV	4.87882G	24.67	54.00	-29.33	3	Vertical	138	2.54
2440MHz	Pass	AV	7.31956G	31.54	54.00	-22.46	3	Vertical	71	2.13
2440MHz	Pass	PK	4.87882G	44.67	74.00	-29.33	3	Vertical	138	2.54
2440MHz	Pass	PK	7.31956G	51.54	74.00	-22.46	3	Vertical	71	2.13
2440MHz	Pass	AV	4.88262G	25.02	54.00	-28.98	3	Horizontal	45	2.96
2440MHz	Pass	AV	7.3202G	31.00	54.00	-23.00	3	Horizontal	185	2.00
2440MHz	Pass	PK	4.88262G	45.02	74.00	-28.98	3	Horizontal	45	2.96
2440MHz	Pass	PK	7.3202G	51.00	74.00	-23.00	3	Horizontal	185	2.00
2480MHz	Pass	AV	2.4794G	89.66	Inf	-Inf	3	Vertical	79	2.92
2480MHz	Pass	AV	2.4835G	47.71	54.00	-6.29	3	Vertical	79	2.92
2480MHz	Pass	PK	2.4794G	109.66	Inf	-Inf	3	Vertical	79	2.92
2480MHz	Pass	PK	2.4835G	67.71	74.00	-6.29	3	Vertical	79	2.92
2480MHz	Pass	AV	2.4806G	87.53	Inf	-Inf	3	Horizontal	200	3.00
2480MHz	Pass	AV	2.4835G	46.55	54.00	-7.45	3	Horizontal	200	3.00
2480MHz	Pass	PK	2.4806G	107.53	Inf	-Inf	3	Horizontal	200	3.00
2480MHz	Pass	PK	2.4835G	66.55	74.00	-7.45	3	Horizontal	200	3.00
2480MHz	Pass	AV	4.96088G	25.32	54.00	-28.68	3	Vertical	348	1.33
2480MHz	Pass	AV	7.43924G	32.00	54.00	-22.00	3	Vertical	38	2.30
2480MHz	Pass	PK	4.96088G	45.32	74.00	-28.68	3	Vertical	348	1.33
2480MHz	Pass	PK	7.43924G	52.00	74.00	-22.00	3	Vertical	38	2.30
2480MHz	Pass	AV	4.95518G	25.42	54.00	-28.58	3	Horizontal	60	2.49
2480MHz	Pass	AV	7.44142G	31.34	54.00	-22.66	3	Horizontal	96	1.01
2480MHz	Pass	PK	4.95518G	45.42	74.00	-28.58	3	Horizontal	60	2.49
2480MHz	Pass	PK	7.44142G	51.34	74.00	-22.66	3	Horizontal	96	1.01

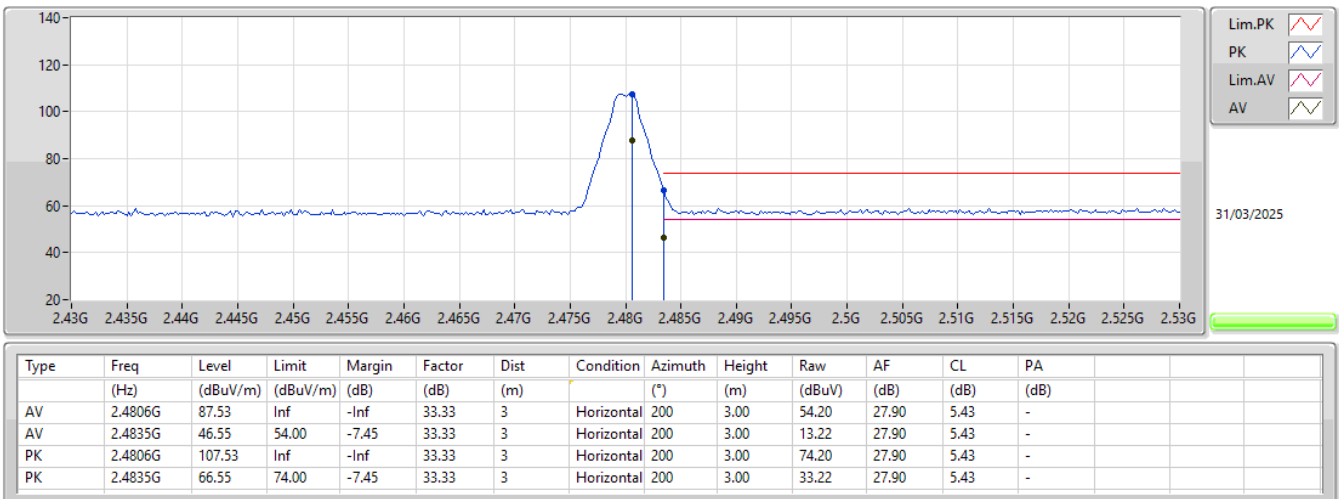
2.4-2.4835GHz_802.15.4

2480MHz_TX



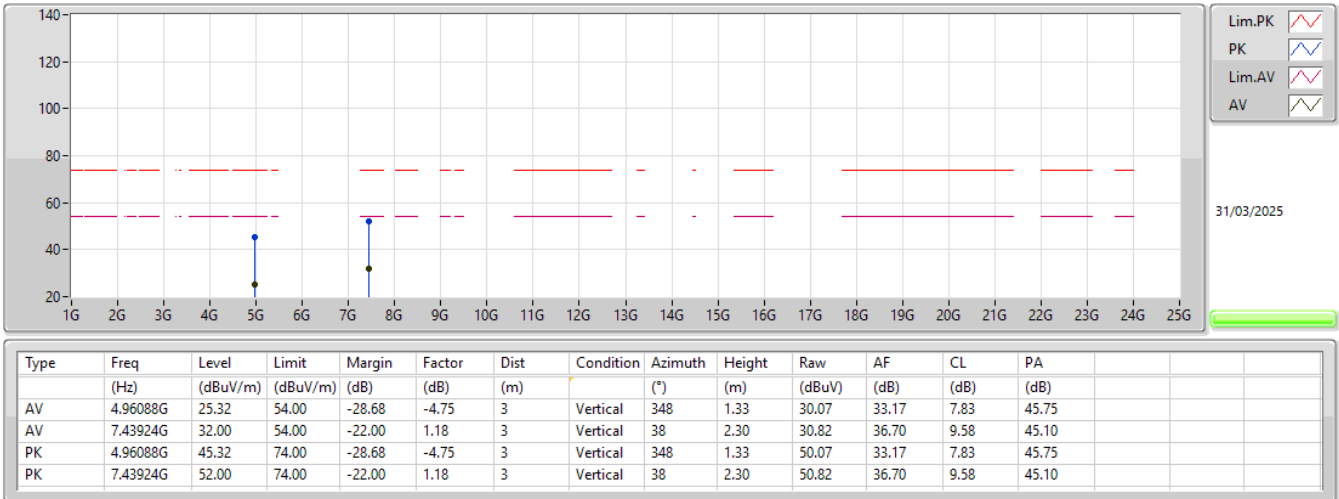
2.4-2.4835GHz_802.15.4

2480MHz_TX



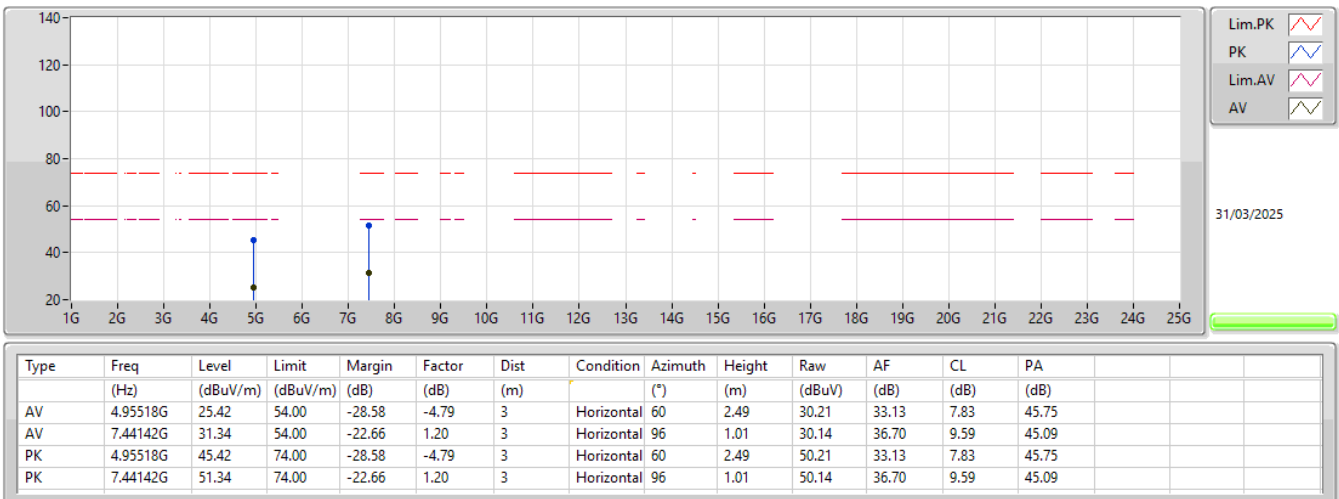
2.4-2.4835GHz_802.15.4

2480MHz_TX



2.4-2.4835GHz_802.15.4

2480MHz_TX





Summary

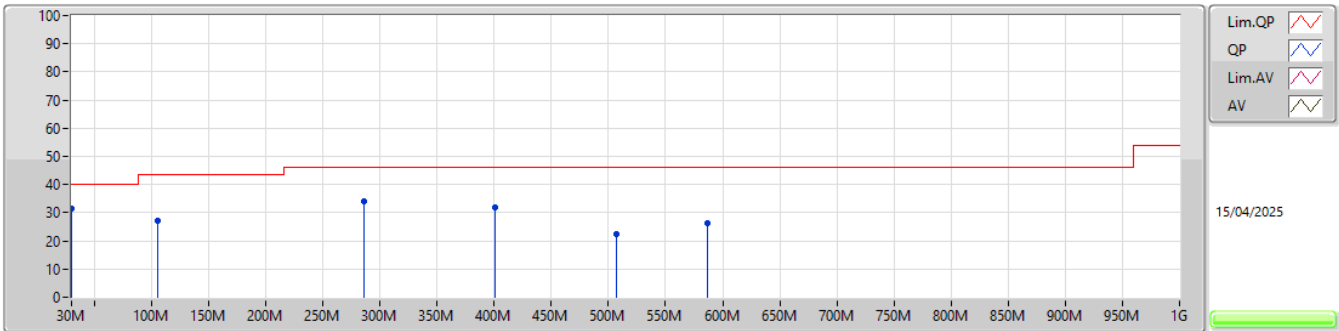
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	PK	282.2M	37.77	46.00	-8.23	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2480MHz	Pass	PK	30M	31.34	40.00	-8.66	3	Vertical	0	1.00
2480MHz	Pass	PK	105.66M	26.95	43.50	-16.55	3	Vertical	0	1.00
2480MHz	Pass	PK	286.08M	33.84	46.00	-12.16	3	Vertical	0	1.00
2480MHz	Pass	PK	400.54M	31.89	46.00	-14.11	3	Vertical	0	1.00
2480MHz	Pass	PK	507.24M	22.52	46.00	-23.48	3	Vertical	0	1.00
2480MHz	Pass	PK	586.78M	26.21	46.00	-19.79	3	Vertical	0	1.00
2480MHz	Pass	PK	33.88M	26.84	40.00	-13.16	3	Horizontal	360	1.00
2480MHz	Pass	PK	105.66M	23.13	43.50	-20.37	3	Horizontal	360	1.00
2480MHz	Pass	PK	282.2M	37.77	46.00	-8.23	3	Horizontal	360	1.00
2480MHz	Pass	PK	322.94M	30.63	46.00	-15.37	3	Horizontal	360	1.00
2480MHz	Pass	PK	400.54M	25.08	46.00	-20.92	3	Horizontal	360	1.00
2480MHz	Pass	PK	577.08M	29.05	46.00	-16.95	3	Horizontal	360	1.00

2.4-2.4835GHz_802.15.4

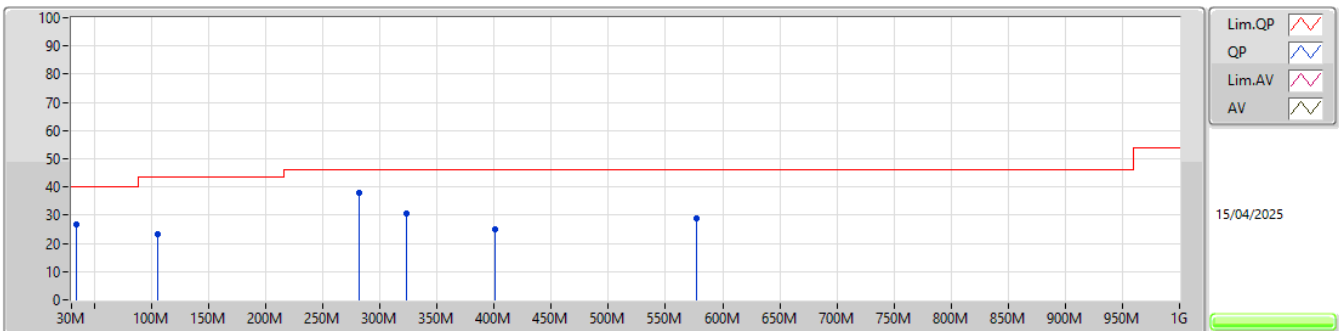
2480MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	30M	31.34	40.00	-8.66	-18.87	3	Vertical	0	1.00	50.21	24.67	0.78	44.32
PK	105.66M	26.95	43.50	-16.55	-26.81	3	Vertical	0	1.00	53.76	16.59	1.20	44.60
PK	286.08M	33.84	46.00	-12.16	-23.26	3	Vertical	0	1.00	57.10	19.15	1.95	44.36
PK	400.54M	31.89	46.00	-14.11	-19.84	3	Vertical	0	1.00	51.73	22.00	2.26	44.10
PK	507.24M	22.52	46.00	-23.48	-17.08	3	Vertical	0	1.00	39.60	24.22	2.66	43.96
PK	586.78M	26.21	46.00	-19.79	-14.82	3	Vertical	0	1.00	41.03	26.37	2.75	43.94

2.4-2.4835GHz_802.15.4

2480MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	33.88M	26.84	40.00	-13.16	-20.79	3	Horizontal	360	1.00	47.63	22.82	0.79	44.40
PK	105.66M	23.13	43.50	-20.37	-26.81	3	Horizontal	360	1.00	49.94	16.59	1.20	44.60
PK	282.2M	37.77	46.00	-8.23	-23.38	3	Horizontal	360	1.00	61.15	19.06	1.93	44.37
PK	322.94M	30.63	46.00	-15.37	-22.50	3	Horizontal	360	1.00	53.13	19.69	2.09	44.28
PK	400.54M	25.08	46.00	-20.92	-19.84	3	Horizontal	360	1.00	44.92	22.00	2.26	44.10
PK	577.08M	29.05	46.00	-16.95	-14.87	3	Horizontal	360	1.00	43.92	26.33	2.74	43.94



Summary

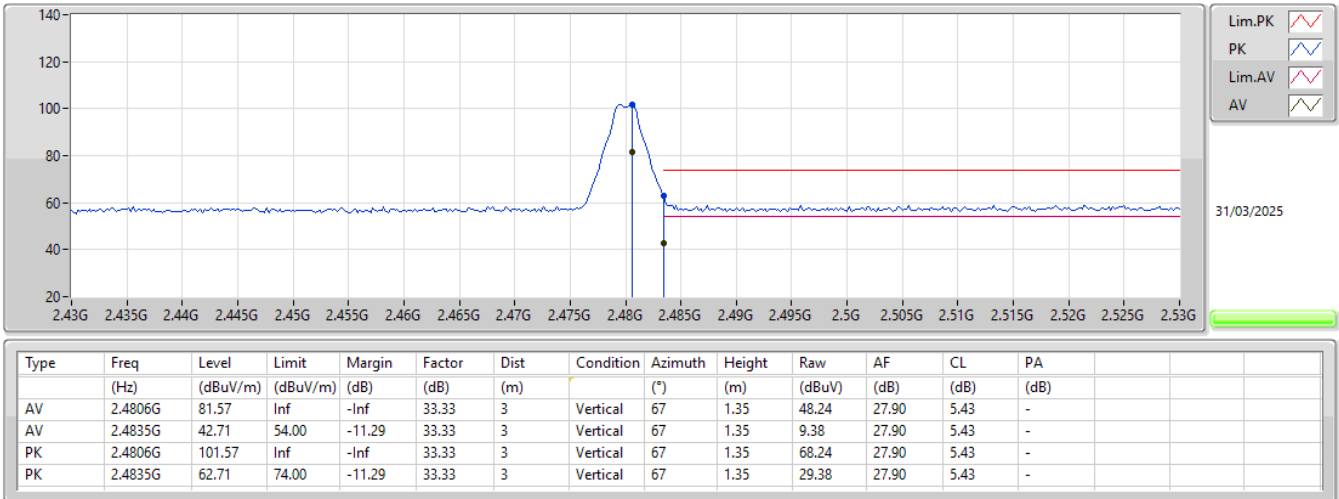
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	AV	2.4835G	50.51	54.00	-3.49	3	Horizontal	311	2.69

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	2.3858G	38.01	54.00	-15.99	3	Vertical	63	1.12
2405MHz	Pass	AV	2.4056G	79.25	Inf	-Inf	3	Vertical	63	1.12
2405MHz	Pass	PK	2.3858G	58.01	74.00	-15.99	3	Vertical	63	1.12
2405MHz	Pass	PK	2.4056G	99.25	Inf	-Inf	3	Vertical	63	1.12
2405MHz	Pass	AV	2.3668G	38.24	54.00	-15.76	3	Horizontal	316	2.47
2405MHz	Pass	AV	2.4046G	90.49	Inf	-Inf	3	Horizontal	316	2.47
2405MHz	Pass	PK	2.3668G	58.24	74.00	-15.76	3	Horizontal	316	2.47
2405MHz	Pass	PK	2.4046G	110.49	Inf	-Inf	3	Horizontal	316	2.47
2405MHz	Pass	AV	4.8092G	32.35	54.00	-21.65	3	Vertical	13	1.50
2405MHz	Pass	PK	4.80906G	44.85	74.00	-29.15	3	Vertical	13	1.50
2405MHz	Pass	AV	4.81086G	33.00	54.00	-21.00	3	Horizontal	287	2.61
2405MHz	Pass	PK	4.81082G	45.35	74.00	-28.65	3	Horizontal	287	2.61
2440MHz	Pass	AV	2.3752G	37.90	54.00	-16.10	3	Vertical	22	1.50
2440MHz	Pass	AV	2.4404G	77.40	Inf	-Inf	3	Vertical	22	1.50
2440MHz	Pass	AV	2.4956G	38.46	54.00	-15.54	3	Vertical	22	1.50
2440MHz	Pass	PK	2.3752G	57.90	74.00	-16.10	3	Vertical	22	1.50
2440MHz	Pass	PK	2.4404G	97.40	Inf	-Inf	3	Vertical	22	1.50
2440MHz	Pass	PK	2.4956G	58.46	74.00	-15.54	3	Vertical	22	1.50
2440MHz	Pass	AV	2.3844G	38.24	54.00	-15.76	3	Horizontal	314	2.79
2440MHz	Pass	AV	2.4396G	90.18	Inf	-Inf	3	Horizontal	314	2.79
2440MHz	Pass	AV	2.4996G	38.39	54.00	-15.61	3	Horizontal	314	2.79
2440MHz	Pass	PK	2.3844G	58.24	74.00	-15.76	3	Horizontal	314	2.79
2440MHz	Pass	PK	2.4396G	110.18	Inf	-Inf	3	Horizontal	314	2.79
2440MHz	Pass	PK	2.4996G	58.39	74.00	-15.61	3	Horizontal	314	2.79
2440MHz	Pass	AV	4.88126G	25.07	54.00	-28.93	3	Vertical	336	1.50
2440MHz	Pass	AV	7.3181G	32.28	54.00	-21.72	3	Vertical	351	1.35
2440MHz	Pass	PK	4.88126G	45.07	74.00	-28.93	3	Vertical	336	1.50
2440MHz	Pass	PK	7.3181G	52.28	74.00	-21.72	3	Vertical	351	1.35
2440MHz	Pass	AV	4.87856G	24.78	54.00	-29.22	3	Horizontal	333	1.20
2440MHz	Pass	AV	7.32135G	31.81	54.00	-22.19	3	Horizontal	327	1.50
2440MHz	Pass	PK	4.87856G	44.78	74.00	-29.22	3	Horizontal	333	1.20
2440MHz	Pass	PK	7.32168G	51.81	74.00	-22.19	3	Horizontal	327	1.50
2480MHz	Pass	AV	2.4806G	81.57	Inf	-Inf	3	Vertical	67	1.35
2480MHz	Pass	AV	2.4835G	42.71	54.00	-11.29	3	Vertical	67	1.35
2480MHz	Pass	PK	2.4806G	101.57	Inf	-Inf	3	Vertical	67	1.35
2480MHz	Pass	PK	2.4835G	62.71	74.00	-11.29	3	Vertical	67	1.35
2480MHz	Pass	AV	2.4804G	91.14	Inf	-Inf	3	Horizontal	311	2.69
2480MHz	Pass	AV	2.4835G	50.51	54.00	-3.49	3	Horizontal	311	2.69
2480MHz	Pass	PK	2.4804G	111.14	Inf	-Inf	3	Horizontal	311	2.69
2480MHz	Pass	PK	2.4835G	70.51	74.00	-3.49	3	Horizontal	311	2.69
2480MHz	Pass	AV	4.96123G	24.56	54.00	-29.44	3	Vertical	345	1.50
2480MHz	Pass	AV	7.43769G	31.47	54.00	-22.53	3	Vertical	338	1.82
2480MHz	Pass	PK	4.96123G	44.56	74.00	-29.44	3	Vertical	345	1.50
2480MHz	Pass	PK	7.43769G	51.47	74.00	-22.53	3	Vertical	338	1.82
2480MHz	Pass	AV	4.96192G	25.33	54.00	-28.67	3	Horizontal	314	1.92
2480MHz	Pass	AV	7.44165G	31.97	54.00	-22.03	3	Horizontal	13	1.50
2480MHz	Pass	PK	4.96192G	45.33	74.00	-28.67	3	Horizontal	314	1.92
2480MHz	Pass	PK	7.44165G	51.97	74.00	-22.03	3	Horizontal	13	1.50

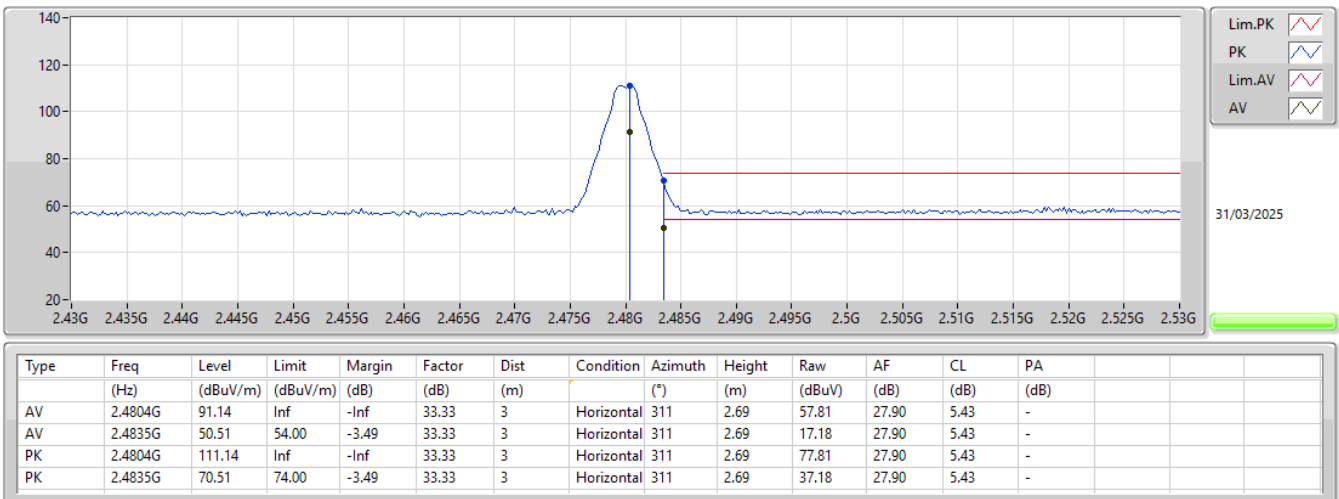
2.4-2.4835GHz_802.15.4

2480MHz_TX



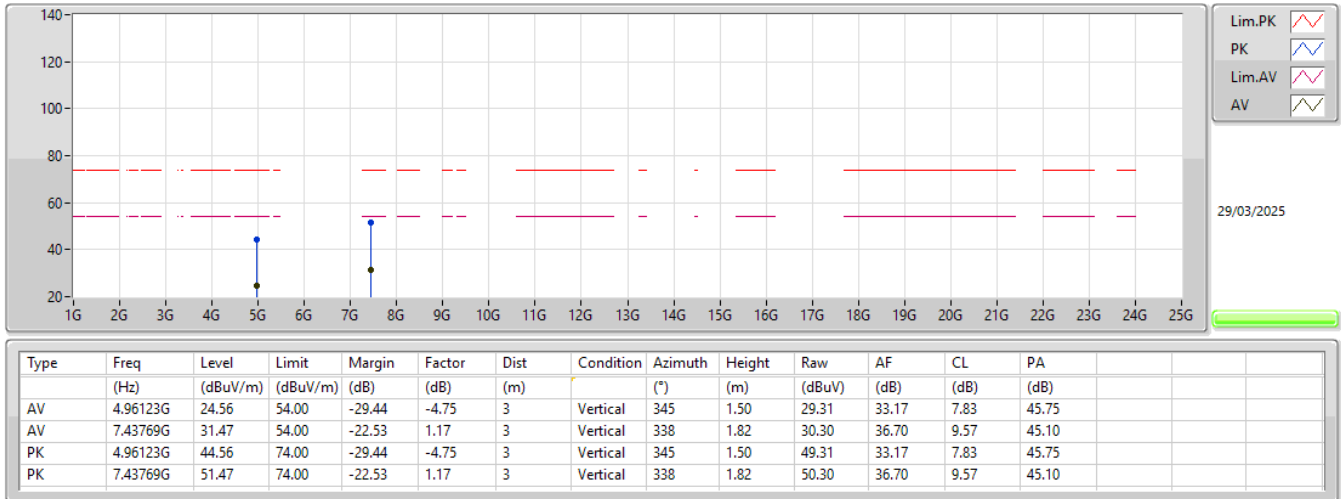
2.4-2.4835GHz_802.15.4

2480MHz_TX



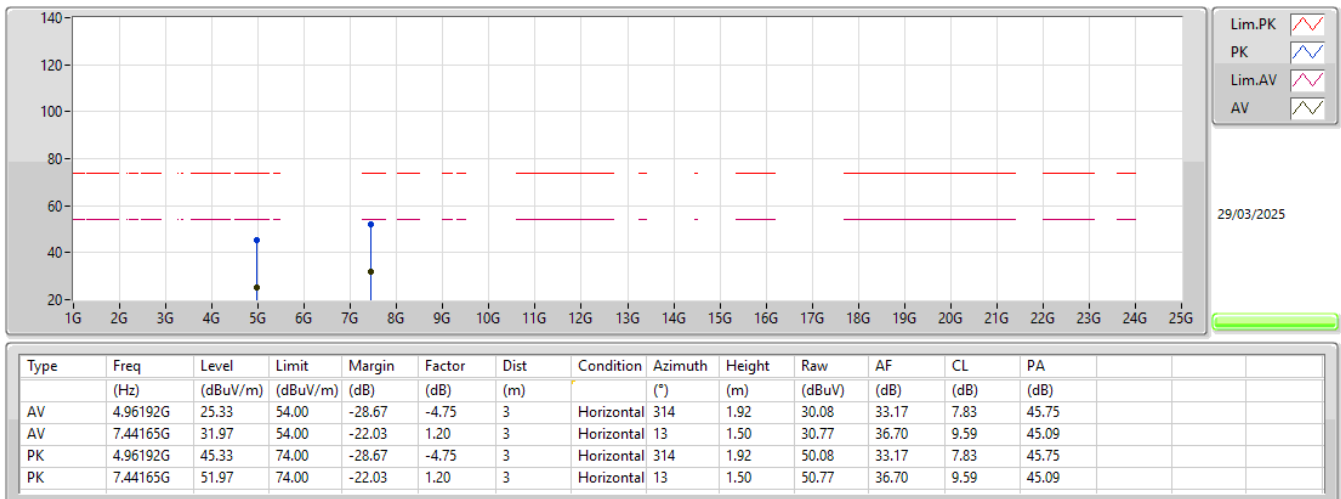
2.4-2.4835GHz_802.15.4

2480MHz_TX



2.4-2.4835GHz_802.15.4

2480MHz_TX



Summary

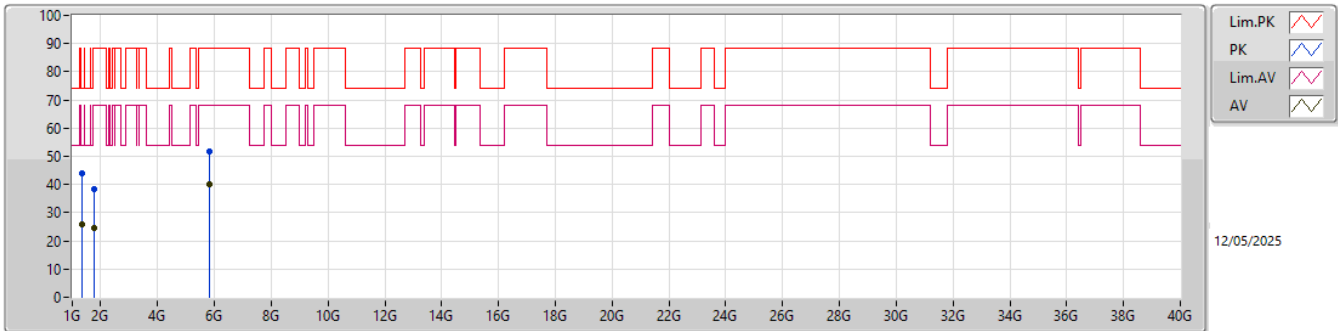
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	6.96931G	42.98	68.20	-25.22	Horizontal
Mode 2	Pass	AV	7.31018G	50.47	54.00	-3.53	Horizontal
Mode 3	Pass	AV	4.99137G	33.39	54.00	-20.61	Vertical
Mode 4	Pass	AV	4.98578G	33.23	54.00	-20.77	Vertical
Mode 5	Pass	AV	4.98559G	33.20	54.00	-20.80	Vertical
Mode 6	Pass	AV	4.99316G	33.16	54.00	-20.84	Horizontal
Mode 7	Pass	AV	4.95058G	32.73	54.00	-21.27	Vertical
Mode 8	Pass	AV	4.94143G	33.54	54.00	-20.46	Vertical

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.33186G	25.82	54.00	-28.18	3	Vertical	88	2.37	-
Mode 1	Pass	AV	1.77936G	24.43	68.20	-43.77	3	Vertical	5	1.50	-
Mode 1	Pass	AV	5.81318G	40.19	68.20	-28.01	3	Vertical	201	2.93	-
Mode 1	Pass	PK	1.33285G	43.82	74.00	-30.18	3	Vertical	88	2.37	-
Mode 1	Pass	PK	1.78992G	38.48	88.20	-49.72	3	Vertical	5	1.50	-
Mode 1	Pass	PK	5.81873G	51.89	88.20	-36.31	3	Vertical	201	2.93	-
Mode 1	Pass	AV	1.33491G	24.65	54.00	-29.35	3	Horizontal	101	1.50	-
Mode 1	Pass	AV	5.90071G	34.57	68.20	-33.63	3	Horizontal	123	1.19	-
Mode 1	Pass	AV	6.96931G	42.98	68.20	-25.22	3	Horizontal	84	1.24	-
Mode 1	Pass	PK	1.3314G	39.85	74.00	-34.15	3	Horizontal	101	1.50	-
Mode 1	Pass	PK	5.89132G	47.88	88.20	-40.32	3	Horizontal	123	1.19	-
Mode 1	Pass	PK	6.96925G	57.84	88.20	-30.36	3	Horizontal	84	1.24	-
Mode 2	Pass	AV	1.33143G	24.80	54.00	-29.20	3	Vertical	84	2.51	-
Mode 2	Pass	AV	5.81272G	43.62	68.20	-24.58	3	Vertical	323	1.64	-
Mode 2	Pass	AV	7.30922G	47.13	54.00	-6.87	3	Vertical	3	1.10	-
Mode 2	Pass	PK	1.32944G	40.25	74.00	-33.75	3	Vertical	84	2.51	-
Mode 2	Pass	PK	5.81371G	54.12	88.20	-34.08	3	Vertical	323	1.64	-
Mode 2	Pass	PK	7.30906G	55.20	74.00	-18.80	3	Vertical	3	1.10	-
Mode 2	Pass	AV	3.92751G	35.75	54.00	-18.25	3	Horizontal	77	2.00	-
Mode 2	Pass	AV	6.96939G	43.44	68.20	-24.76	3	Horizontal	82	1.50	-
Mode 2	Pass	AV	7.31018G	50.47	54.00	-3.53	3	Horizontal	7	1.23	-
Mode 2	Pass	PK	3.91704G	46.40	74.00	-27.60	3	Horizontal	77	2.00	-
Mode 2	Pass	PK	6.97254G	57.52	88.20	-30.68	3	Horizontal	82	1.50	-
Mode 2	Pass	PK	7.31219G	56.09	74.00	-17.91	3	Horizontal	7	1.23	-
Mode 3	Pass	AV	2.13368G	25.60	68.20	-42.60	3	Vertical	95	1.16	-
Mode 3	Pass	AV	3.65519G	29.46	54.00	-24.54	3	Vertical	252	1.50	-
Mode 3	Pass	AV	4.99137G	33.39	54.00	-20.61	3	Vertical	332	1.50	-
Mode 3	Pass	PK	2.13368G	40.00	88.20	-48.20	3	Vertical	95	1.16	-
Mode 3	Pass	PK	3.65519G	42.43	74.00	-31.57	3	Vertical	252	1.50	-
Mode 3	Pass	PK	4.99137G	46.74	74.00	-27.26	3	Vertical	332	1.50	-
Mode 3	Pass	AV	2.22049G	25.97	54.00	-28.03	3	Horizontal	68	1.50	-
Mode 3	Pass	AV	3.8046G	29.74	54.00	-24.26	3	Horizontal	328.1	1.50	-
Mode 3	Pass	AV	4.98911G	33.30	54.00	-20.70	3	Horizontal	53	1.50	-
Mode 3	Pass	PK	2.22049G	39.45	74.00	-34.55	3	Horizontal	68	1.50	-
Mode 3	Pass	PK	3.8046G	43.74	74.00	-30.26	3	Horizontal	328.1	1.50	-
Mode 3	Pass	PK	4.98911G	46.74	74.00	-27.26	3	Horizontal	53	1.50	-
Mode 4	Pass	AV	2.2076G	26.02	54.00	-27.98	3	Vertical	324	1.50	-
Mode 4	Pass	AV	3.03984G	28.37	68.20	-39.83	3	Vertical	210	1.50	-
Mode 4	Pass	AV	4.98578G	33.23	54.00	-20.77	3	Vertical	54	1.99	-
Mode 4	Pass	PK	2.2076G	39.29	74.00	-34.71	3	Vertical	324	1.50	-
Mode 4	Pass	PK	3.03984G	42.47	88.20	-45.73	3	Vertical	210	1.50	-
Mode 4	Pass	PK	4.98578G	46.55	74.00	-27.45	3	Vertical	54	1.99	-
Mode 4	Pass	AV	2.24246G	26.05	54.00	-27.95	3	Horizontal	8	1.50	-
Mode 4	Pass	AV	3.48073G	28.54	68.20	-39.66	3	Horizontal	282	1.50	-
Mode 4	Pass	AV	5.14276G	32.42	54.00	-21.58	3	Horizontal	319	2.00	-
Mode 4	Pass	PK	2.24246G	40.06	74.00	-33.94	3	Horizontal	8	1.50	-
Mode 4	Pass	PK	3.48073G	41.93	88.20	-46.27	3	Horizontal	282	1.50	-
Mode 4	Pass	PK	5.14276G	45.91	74.00	-28.09	3	Horizontal	319	2.00	-
Mode 5	Pass	AV	2.04002G	25.88	68.20	-42.32	3	Vertical	238	1.50	-
Mode 5	Pass	AV	3.80288G	29.58	54.00	-24.42	3	Vertical	182	1.50	-

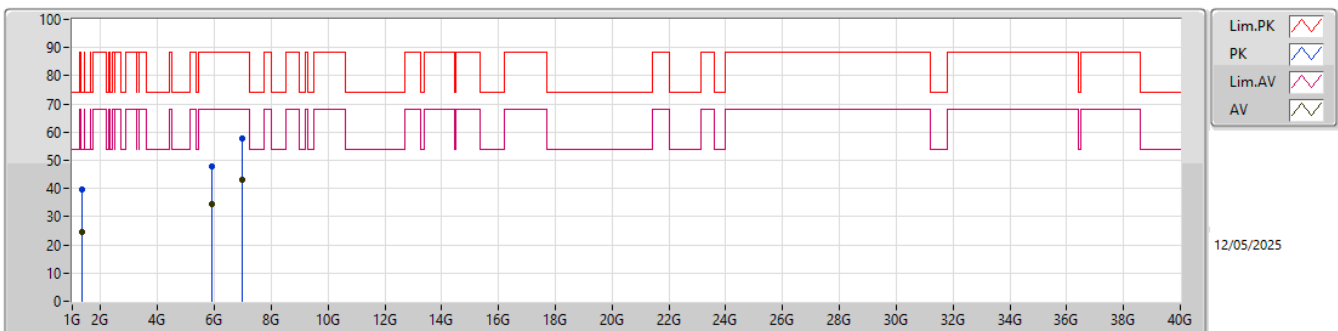
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 5	Pass	AV	4.98559G	33.20	54.00	-20.80	3	Vertical	109	1.99	-
Mode 5	Pass	PK	2.04002G	39.60	88.20	-48.60	3	Vertical	238	1.50	-
Mode 5	Pass	PK	3.80288G	42.91	74.00	-31.09	3	Vertical	182	1.50	-
Mode 5	Pass	PK	4.98559G	46.43	74.00	-27.57	3	Vertical	109	1.99	-
Mode 5	Pass	AV	1.33222G	24.53	54.00	-29.47	3	Horizontal	18	1.64	-
Mode 5	Pass	AV	3.1608G	28.41	68.20	-39.79	3	Horizontal	259	2.00	-
Mode 5	Pass	AV	4.9539G	32.94	54.00	-21.06	3	Horizontal	14	2.00	-
Mode 5	Pass	PK	1.33222G	42.15	74.00	-31.85	3	Horizontal	18	1.64	-
Mode 5	Pass	PK	3.1608G	41.86	88.20	-46.34	3	Horizontal	259	2.00	-
Mode 5	Pass	PK	4.9539G	46.58	74.00	-27.42	3	Horizontal	14	2.00	-
Mode 6	Pass	AV	1.39334G	23.96	54.00	-30.04	3	Vertical	160	1.50	-
Mode 6	Pass	AV	3.80341G	29.65	54.00	-24.35	3	Vertical	303	1.34	-
Mode 6	Pass	AV	4.8841G	32.00	54.00	-22.00	3	Vertical	17	2.00	-
Mode 6	Pass	PK	1.39334G	42.45	74.00	-31.55	3	Vertical	160	1.50	-
Mode 6	Pass	PK	3.80341G	42.54	74.00	-31.46	3	Vertical	303	1.34	-
Mode 6	Pass	PK	4.8841G	45.26	74.00	-28.74	3	Vertical	17	2.00	-
Mode 6	Pass	AV	1.33015G	24.46	54.00	-29.54	3	Horizontal	175	1.62	-
Mode 6	Pass	AV	3.78207G	29.06	54.00	-24.94	3	Horizontal	34	1.50	-
Mode 6	Pass	AV	4.99316G	33.16	54.00	-20.84	3	Horizontal	335	1.62	-
Mode 6	Pass	PK	1.33015G	41.82	74.00	-32.18	3	Horizontal	175	1.62	-
Mode 6	Pass	PK	3.78207G	42.66	74.00	-31.34	3	Horizontal	34	1.50	-
Mode 6	Pass	PK	4.99316G	46.07	74.00	-27.93	3	Horizontal	335	1.62	-
Mode 7	Pass	AV	1.38762G	24.24	54.00	-29.76	3	Vertical	167	1.50	-
Mode 7	Pass	AV	3.12702G	29.08	68.20	-39.12	3	Vertical	192	1.12	-
Mode 7	Pass	AV	4.95058G	32.73	54.00	-21.27	3	Vertical	312	1.55	-
Mode 7	Pass	PK	1.38762G	44.28	74.00	-29.72	3	Vertical	167	1.50	-
Mode 7	Pass	PK	3.12702G	42.69	88.20	-45.51	3	Vertical	192	1.12	-
Mode 7	Pass	PK	4.95058G	46.29	74.00	-27.71	3	Vertical	312	1.55	-
Mode 7	Pass	AV	1.96698G	25.42	68.20	-42.78	3	Horizontal	246	1.69	-
Mode 7	Pass	AV	3.78629G	29.13	54.00	-24.87	3	Horizontal	162	1.50	-
Mode 7	Pass	AV	5.0061G	32.64	54.00	-21.36	3	Horizontal	291	1.50	-
Mode 7	Pass	PK	1.96698G	39.12	88.20	-49.08	3	Horizontal	246	1.69	-
Mode 7	Pass	PK	3.78629G	42.50	74.00	-31.50	3	Horizontal	162	1.50	-
Mode 7	Pass	PK	5.0061G	46.43	74.00	-27.57	3	Horizontal	291	1.50	-
Mode 8	Pass	AV	1.38567G	24.32	54.00	-29.68	3	Vertical	166	1.51	-
Mode 8	Pass	AV	3.68878G	28.88	54.00	-25.12	3	Vertical	173	1.50	-
Mode 8	Pass	AV	4.94143G	33.54	54.00	-20.46	3	Vertical	333	1.96	-
Mode 8	Pass	PK	1.38567G	44.35	74.00	-29.65	3	Vertical	166	1.51	-
Mode 8	Pass	PK	3.68878G	43.00	74.00	-31.00	3	Vertical	173	1.50	-
Mode 8	Pass	PK	4.94143G	47.05	74.00	-26.95	3	Vertical	333	1.96	-
Mode 8	Pass	AV	1.33262G	24.38	54.00	-29.62	3	Horizontal	277	1.64	-
Mode 8	Pass	AV	3.80267G	29.51	54.00	-24.49	3	Horizontal	292	1.75	-
Mode 8	Pass	AV	5.00328G	32.81	54.00	-21.19	3	Horizontal	259	1.50	-
Mode 8	Pass	PK	1.33262G	42.35	74.00	-31.65	3	Horizontal	277	1.64	-
Mode 8	Pass	PK	3.80267G	43.26	74.00	-30.74	3	Horizontal	292	1.75	-
Mode 8	Pass	PK	5.00328G	46.11	74.00	-27.89	3	Horizontal	259	1.50	-

Radiated Emissions above 1GHz_Mode 1



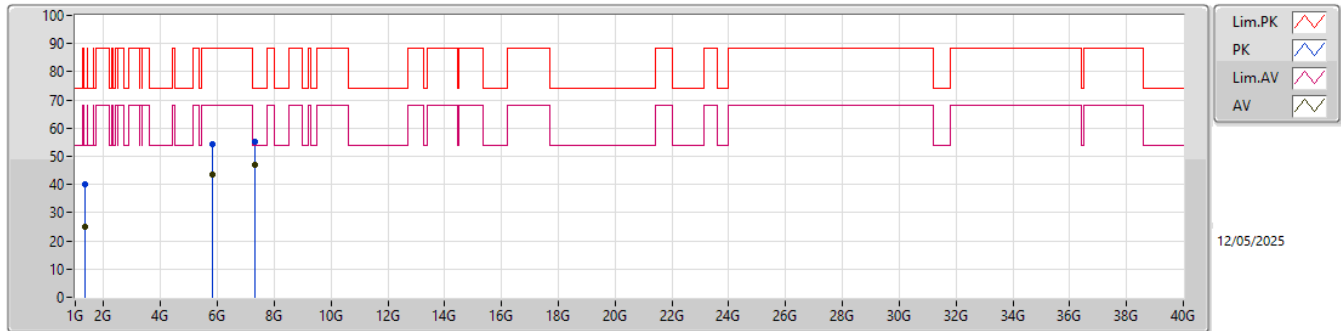
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.33186G	25.82	54.00	-28.18	-5.87	3	Vertical	88	2.37	31.69	25.90	3.59	35.36
AV	1.77936G	24.43	68.20	-43.77	-5.93	3	Vertical	5	1.50	30.36	24.90	4.21	35.04
AV	5.81318G	40.19	68.20	-28.01	6.55	3	Vertical	201	2.93	33.64	33.93	7.82	35.20
PK	1.33285G	43.82	74.00	-30.18	-5.87	3	Vertical	88	2.37	49.69	25.90	3.59	35.36
PK	1.78992G	38.48	88.20	-49.72	-5.82	3	Vertical	5	1.50	44.30	25.00	4.21	35.03
PK	5.81873G	51.89	88.20	-36.31	6.56	3	Vertical	201	2.93	45.33	33.94	7.82	35.20

Radiated Emissions above 1GHz_Mode 1



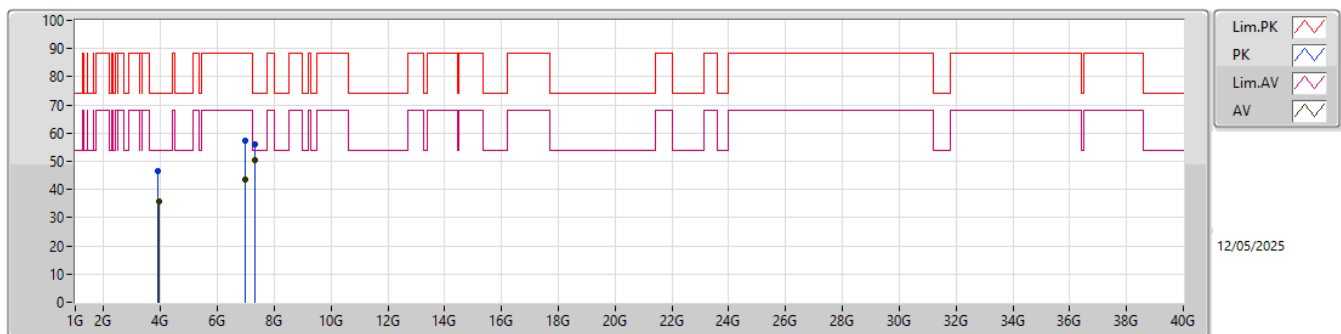
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.33491G	24.65	54.00	-29.35	-5.86	3	Horizontal	101	1.50	30.51	25.90	3.59	35.35
AV	5.90071G	34.57	68.20	-33.63	6.75	3	Horizontal	123	1.19	27.82	34.20	7.79	35.24
AV	6.96931G	42.98	68.20	-25.22	8.73	3	Horizontal	84	1.24	34.25	35.76	8.51	35.54
PK	1.3314G	39.85	74.00	-34.15	-5.87	3	Horizontal	101	1.50	45.72	25.90	3.59	35.36
PK	5.89132G	47.88	88.20	-40.32	6.73	3	Horizontal	123	1.19	41.15	34.17	7.79	35.23
PK	6.96925G	57.84	88.20	-30.36	8.73	3	Horizontal	84	1.24	49.11	35.76	8.51	35.54

Radiated Emissions above 1GHz_Mode 2



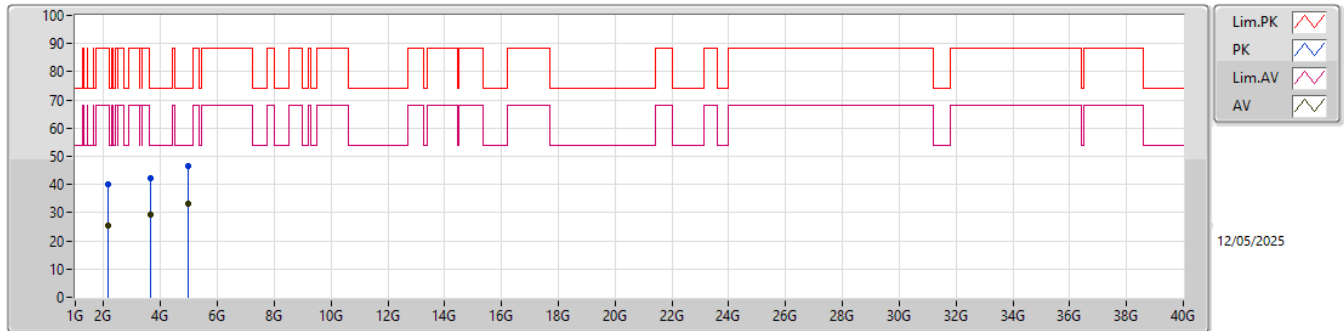
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.33143G	24.80	54.00	-29.20	-5.87	3	Vertical	84	2.51	30.67	25.90	3.59	35.36
AV	5.81272G	43.62	68.20	-24.58	6.55	3	Vertical	323	1.64	37.07	33.93	7.82	35.20
AV	7.30922G	47.13	54.00	-6.87	10.40	3	Vertical	3	1.10	36.73	36.76	8.86	35.22
PK	1.32944G	40.25	74.00	-33.75	-5.87	3	Vertical	84	2.51	46.12	25.91	3.58	35.36
PK	5.81371G	54.12	88.20	-34.08	6.55	3	Vertical	323	1.64	47.57	33.93	7.82	35.20
PK	7.30906G	55.20	74.00	-18.80	10.40	3	Vertical	3	1.10	44.80	36.76	8.86	35.22

Radiated Emissions above 1GHz_Mode 2



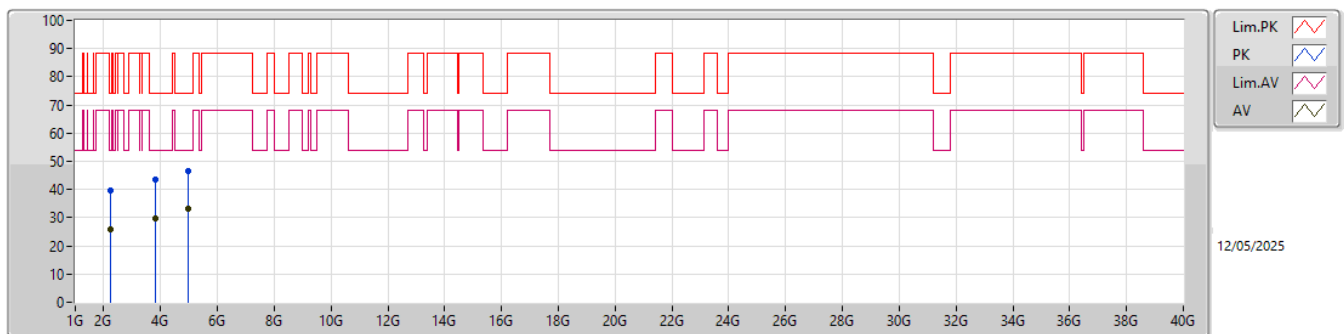
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	3.92751G	35.75	54.00	-18.25	2.03	3	Horizontal	77	2.00	33.72	30.74	6.36	35.07
AV	6.96939G	43.44	68.20	-24.76	8.73	3	Horizontal	82	1.50	34.71	35.76	8.51	35.54
AV	7.31018G	50.47	54.00	-3.53	10.40	3	Horizontal	7	1.23	40.07	36.76	8.86	35.22
PK	3.91704G	46.40	74.00	-27.60	2.06	3	Horizontal	77	2.00	44.34	30.77	6.36	35.07
PK	6.97254G	57.52	88.20	-30.68	8.72	3	Horizontal	82	1.50	48.80	35.75	8.51	35.54
PK	7.31219G	56.09	74.00	-17.91	10.39	3	Horizontal	7	1.23	45.70	36.75	8.86	35.22

Radiated Emissions above 1GHz_Mode 3



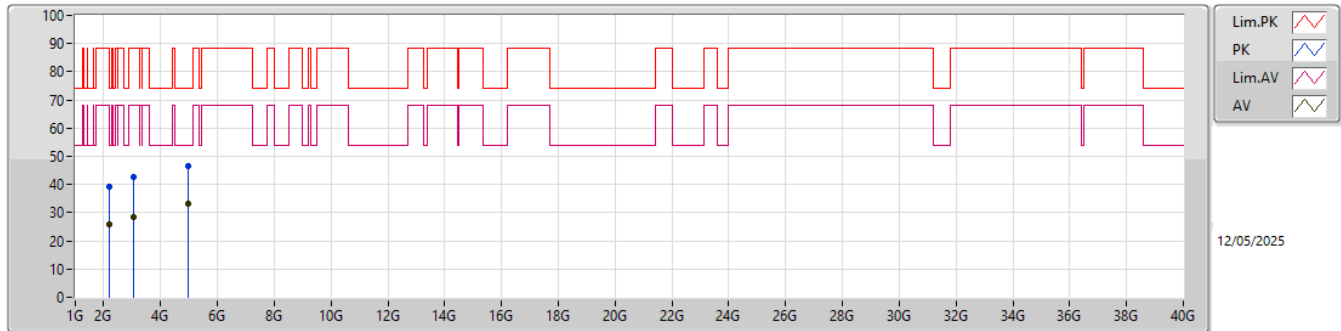
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)				
AV	2.13368G	25.60	68.20	-42.60	-3.00	3	Vertical	95	1.16	28.60	27.40	4.62	35.02				
AV	3.65519G	29.46	54.00	-24.54	0.64	3	Vertical	252	1.50	28.82	29.62	6.20	35.18				
AV	4.99137G	33.39	54.00	-20.61	5.36	3	Vertical	332	1.50	28.03	33.17	7.26	35.07				
PK	2.13368G	40.00	88.20	-48.20	-3.00	3	Vertical	95	1.16	43.00	27.40	4.62	35.02				
PK	3.65519G	42.43	74.00	-31.57	0.64	3	Vertical	252	1.50	41.79	29.62	6.20	35.18				
PK	4.99137G	46.74	74.00	-27.26	5.36	3	Vertical	332	1.50	41.38	33.17	7.26	35.07				

Radiated Emissions above 1GHz_Mode 3



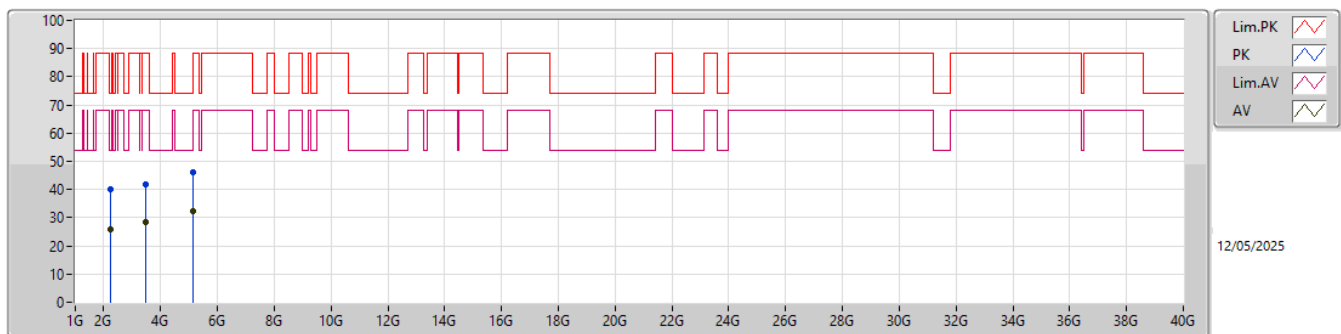
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)				
AV	2.22049G	25.97	54.00	-28.03	-3.14	3	Horizontal	68	1.50	29.11	27.20	4.71	35.05				
AV	3.8046G	29.74	54.00	-24.26	1.63	3	Horizontal	328.1	1.50	28.11	30.43	6.32	35.12				
AV	4.98911G	33.30	54.00	-20.70	5.34	3	Horizontal	53	1.50	27.96	33.16	7.25	35.07				
PK	2.22049G	39.45	74.00	-34.55	-3.14	3	Horizontal	68	1.50	42.59	27.20	4.71	35.05				
PK	3.8046G	43.74	74.00	-30.26	1.63	3	Horizontal	328.1	1.50	42.11	30.43	6.32	35.12				
PK	4.98911G	46.74	74.00	-27.26	5.34	3	Horizontal	53	1.50	41.40	33.16	7.25	35.07				

Radiated Emissions above 1GHz_Mode 4



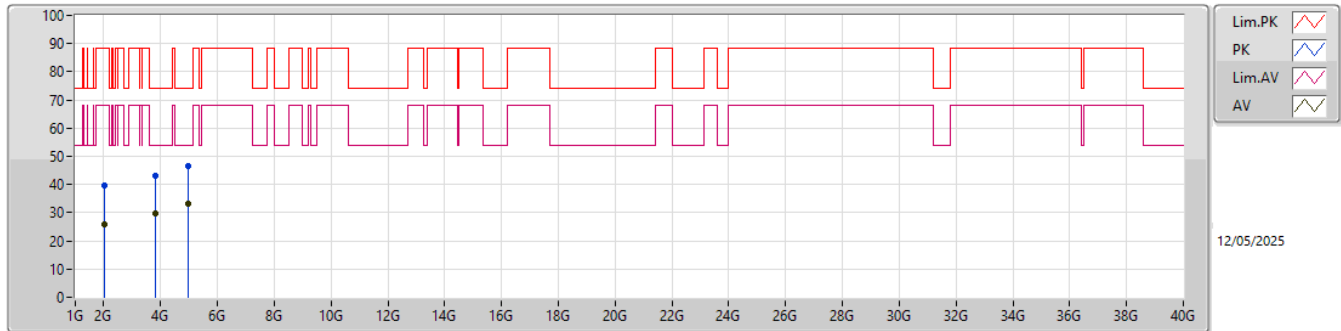
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	2.2076G	26.02	54.00	-27.98	-3.14	3	Vertical	324	1.50	29.16	27.20	4.70	35.04
AV	3.03984G	28.37	68.20	-39.83	0.05	3	Vertical	210	1.50	28.32	29.68	5.59	35.22
AV	4.98578G	33.23	54.00	-20.77	5.32	3	Vertical	54	1.99	27.91	33.14	7.25	35.07
PK	2.2076G	39.29	74.00	-34.71	-3.14	3	Vertical	324	1.50	42.43	27.20	4.70	35.04
PK	3.03984G	42.47	88.20	-45.73	0.05	3	Vertical	210	1.50	42.42	29.68	5.59	35.22
PK	4.98578G	46.55	74.00	-27.45	5.32	3	Vertical	54	1.99	41.23	33.14	7.25	35.07

Radiated Emissions above 1GHz_Mode 4



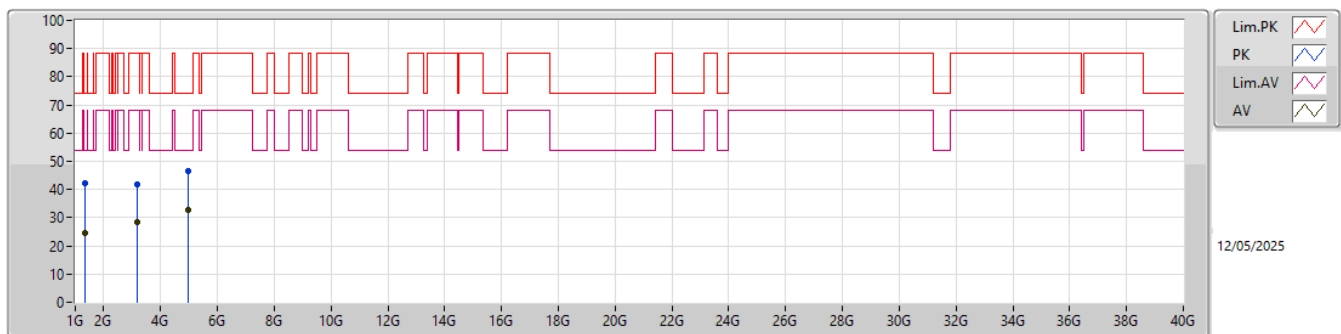
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	2.24246G	26.05	54.00	-27.95	-3.12	3	Horizontal	8	1.50	29.17	27.20	4.73	35.05
AV	3.48073G	28.54	68.20	-39.66	0.14	3	Horizontal	282	1.50	28.40	29.40	5.99	35.25
AV	5.14276G	32.42	54.00	-21.58	5.23	3	Horizontal	319	2.00	27.19	33.06	7.24	35.07
PK	2.24246G	40.06	74.00	-33.94	-3.12	3	Horizontal	8	1.50	43.18	27.20	4.73	35.05
PK	3.48073G	41.93	88.20	-46.27	0.14	3	Horizontal	282	1.50	41.79	29.40	5.99	35.25
PK	5.14276G	45.91	74.00	-28.09	5.23	3	Horizontal	319	2.00	40.68	33.06	7.24	35.07

Radiated Emissions above 1GHz_Mode 5



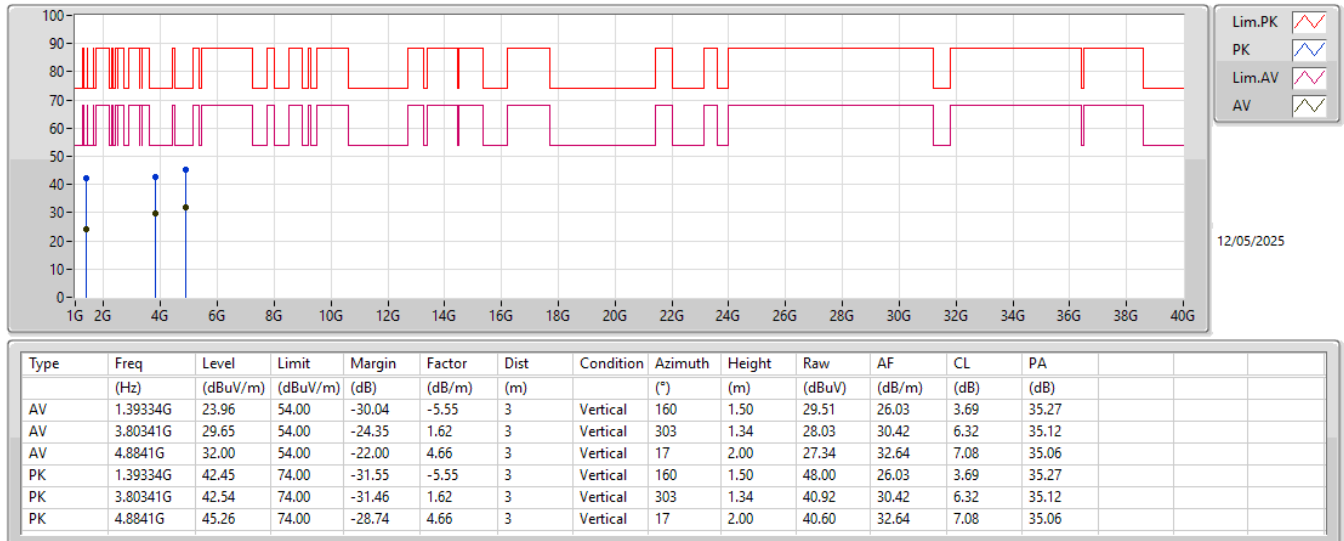
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)				
AV	2.04002G	25.88	68.20	-42.32	-3.06	3	Vertical	238	1.50	28.94	27.40	4.53	34.99				
AV	3.80288G	29.58	54.00	-24.42	1.62	3	Vertical	182	1.50	27.96	30.42	6.32	35.12				
AV	4.98559G	33.20	54.00	-20.80	5.32	3	Vertical	109	1.99	27.88	33.14	7.25	35.07				
PK	2.04002G	39.60	88.20	-48.60	-3.06	3	Vertical	238	1.50	42.66	27.40	4.53	34.99				
PK	3.80288G	42.91	74.00	-31.09	1.62	3	Vertical	182	1.50	41.29	30.42	6.32	35.12				
PK	4.98559G	46.43	74.00	-27.57	5.32	3	Vertical	109	1.99	41.11	33.14	7.25	35.07				

Radiated Emissions above 1GHz_Mode 5

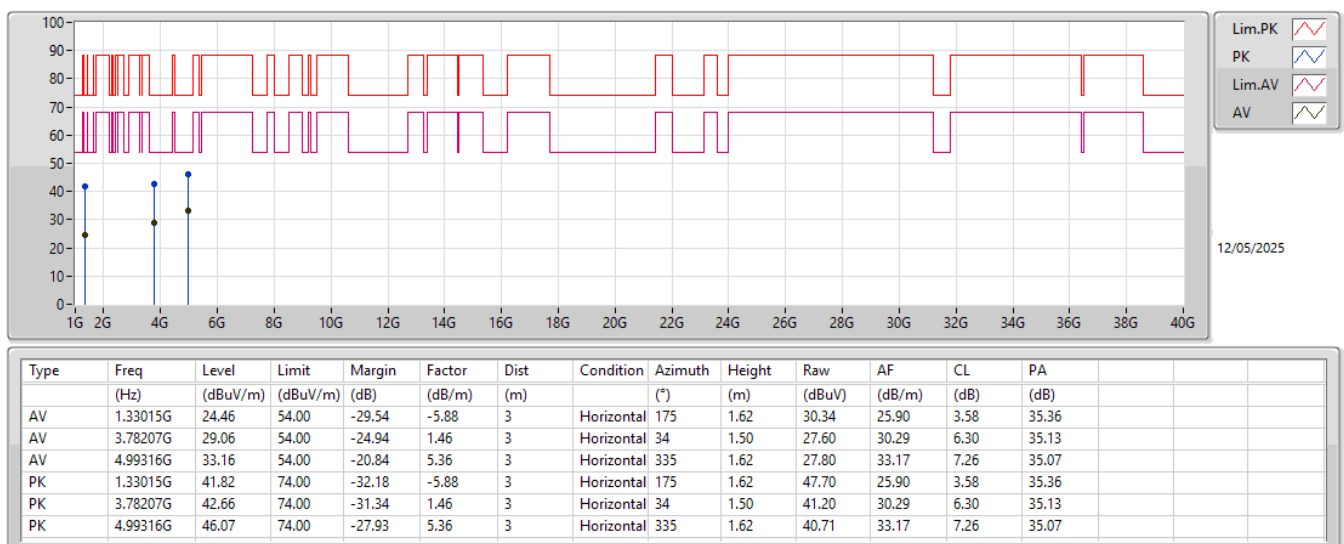


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)				
AV	1.33222G	24.53	54.00	-29.47	-5.87	3	Horizontal	18	1.64	30.40	25.90	3.59	35.36				
AV	3.1608G	28.41	68.20	-39.79	0.19	3	Horizontal	259	2.00	28.22	29.70	5.72	35.23				
AV	4.9539G	32.94	54.00	-21.06	5.15	3	Horizontal	14	2.00	27.79	33.02	7.20	35.07				
PK	1.33222G	42.15	74.00	-31.85	-5.87	3	Horizontal	18	1.64	48.02	25.90	3.59	35.36				
PK	3.1608G	41.86	88.20	-46.34	0.19	3	Horizontal	259	2.00	41.67	29.70	5.72	35.23				
PK	4.9539G	46.58	74.00	-27.42	5.15	3	Horizontal	14	2.00	41.43	33.02	7.20	35.07				

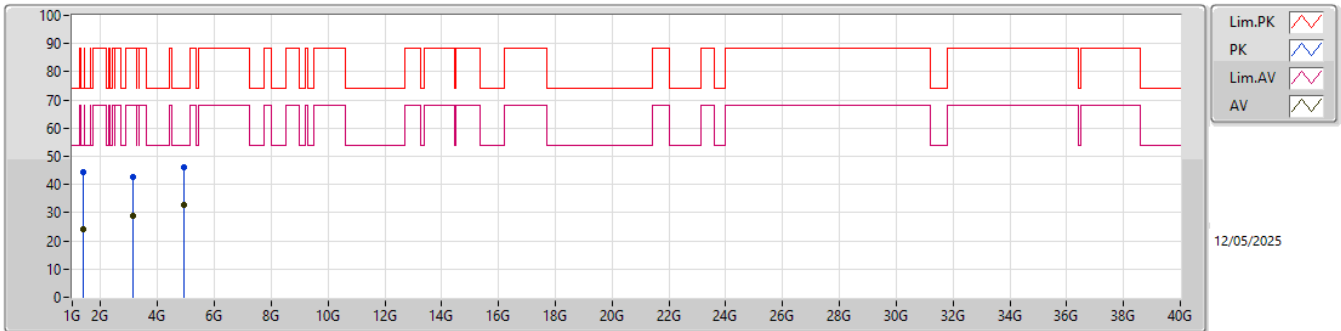
Radiated Emissions above 1GHz_Mode 6



Radiated Emissions above 1GHz_Mode 6

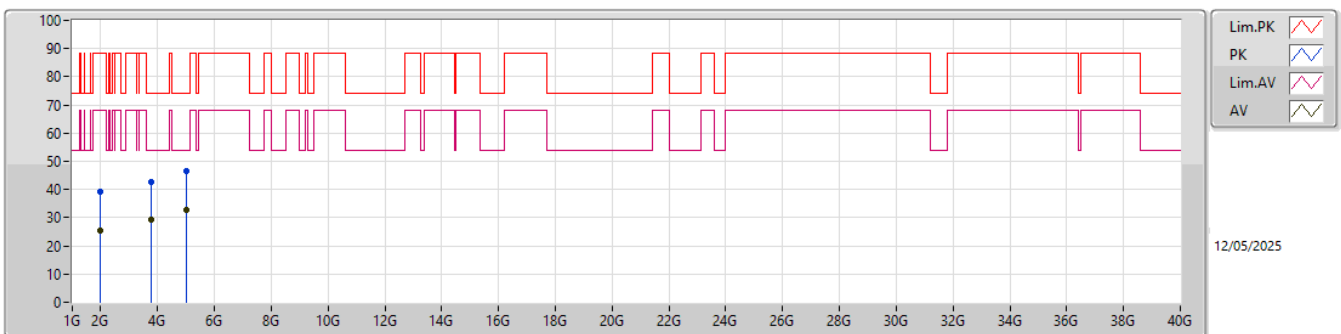


Radiated Emissions above 1GHz_Mode 7



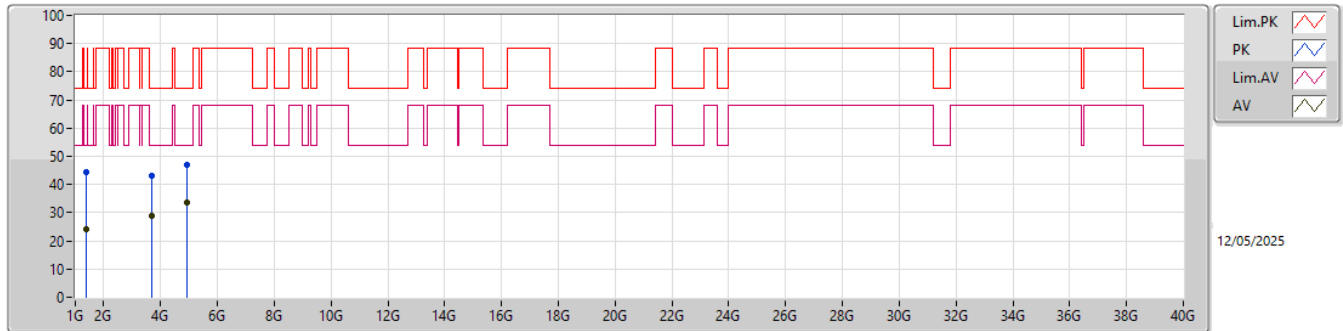
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)				
AV	1.38762G	24.24	54.00	-29.76	-5.52	3	Vertical	167	1.50	29.76	26.08	3.68	35.28				
AV	3.12702G	29.08	68.20	-39.12	0.11	3	Vertical	192	1.12	28.97	29.65	5.69	35.23				
AV	4.95058G	32.73	54.00	-21.27	5.12	3	Vertical	312	1.55	27.61	33.00	7.19	35.07				
PK	1.38762G	44.28	74.00	-29.72	-5.52	3	Vertical	167	1.50	49.80	26.08	3.68	35.28				
PK	3.12702G	42.69	88.20	-45.51	0.11	3	Vertical	192	1.12	42.58	29.65	5.69	35.23				
PK	4.95058G	46.29	74.00	-27.71	5.12	3	Vertical	312	1.55	41.17	33.00	7.19	35.07				

Radiated Emissions above 1GHz_Mode 7



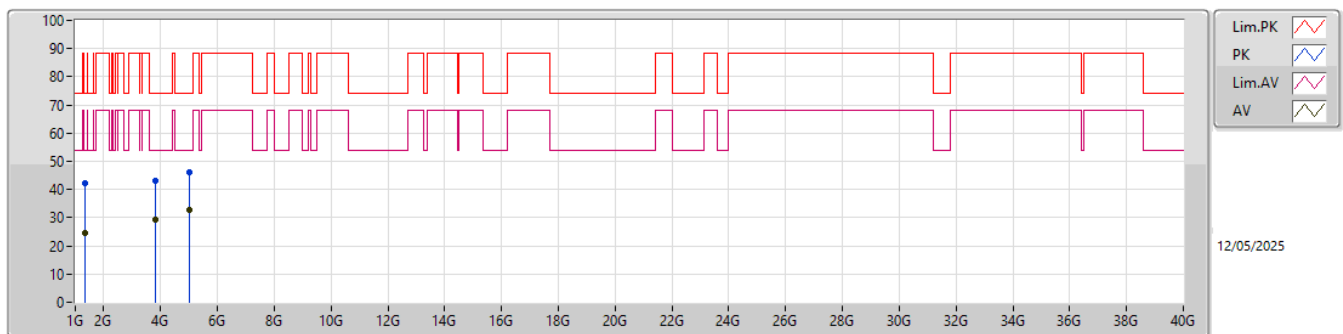
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)				
AV	1.96698G	25.42	68.20	-42.78	-4.17	3	Horizontal	246	1.69	29.59	26.37	4.45	34.99				
AV	3.78629G	29.13	54.00	-24.87	1.50	3	Horizontal	162	1.50	27.63	30.32	6.31	35.13				
AV	5.0061G	32.64	54.00	-21.36	5.38	3	Horizontal	291	1.50	27.26	33.18	7.27	35.07				
PK	1.96698G	39.12	88.20	-49.08	-4.17	3	Horizontal	246	1.69	43.29	26.37	4.45	34.99				
PK	3.78629G	42.50	74.00	-31.50	1.50	3	Horizontal	162	1.50	41.00	30.32	6.31	35.13				
PK	5.0061G	46.43	74.00	-27.57	5.38	3	Horizontal	291	1.50	41.05	33.18	7.27	35.07				

Radiated Emissions above 1GHz_Mode 8



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.38567G	24.32	54.00	-29.68	-5.54	3	Vertical	166	1.51	29.86	26.06	3.68	35.28
AV	3.68878G	28.88	54.00	-25.12	0.82	3	Vertical	173	1.50	28.06	29.76	6.23	35.17
AV	4.94143G	33.54	54.00	-20.46	5.06	3	Vertical	333	1.96	28.48	32.95	7.18	35.07
PK	1.38567G	44.35	74.00	-29.65	-5.54	3	Vertical	166	1.51	49.89	26.06	3.68	35.28
PK	3.68878G	43.00	74.00	-31.00	0.82	3	Vertical	173	1.50	42.18	29.76	6.23	35.17
PK	4.94143G	47.05	74.00	-26.95	5.06	3	Vertical	333	1.96	41.99	32.95	7.18	35.07

Radiated Emissions above 1GHz_Mode 8



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.33262G	24.38	54.00	-29.62	-5.87	3	Horizontal	277	1.64	30.25	25.90	3.59	35.36
AV	3.80267G	29.51	54.00	-24.49	1.62	3	Horizontal	292	1.75	27.89	30.42	6.32	35.12
AV	5.00328G	32.81	54.00	-21.19	5.39	3	Horizontal	259	1.50	27.42	33.19	7.27	35.07
PK	1.33262G	42.35	74.00	-31.65	-5.87	3	Horizontal	277	1.64	48.22	25.90	3.59	35.36
PK	3.80267G	43.26	74.00	-30.74	1.62	3	Horizontal	292	1.75	41.64	30.42	6.32	35.12
PK	5.00328G	46.11	74.00	-27.89	5.39	3	Horizontal	259	1.50	40.72	33.19	7.27	35.07