

FCC Radio Test Report

FCC ID : H8NMAX2V1K
Equipment : WiFi 6E MDU Router
Model Name : MAX2V1K
Applicant : ASKEY COMPUTER CORPORATION
10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan
Manufacturer : ASKEY COMPUTER CORPORATION
10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 09, 2023, and testing was started from Mar. 21, 2023 and completed on Apr. 07, 2023. 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: Ben Tesng

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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Report Template No.: HE1-C11 Ver3.3
FCC ID: H8NMAX2V1K

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: Ryan Hsiao

Report Producer: Amber Chiu

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	Thread	5	1TX

Note:.

- ♦ Thread 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
1	adant	STAR4245	PIFA-Like	I-PEX	2.4G
2	adant	STAR4245	PIFA-Like	I-PEX	2.4G
3	adant	STAR4245	PIFA-Like	I-PEX	2.4G
4	adant	STAR4245	PIFA-Like	I-PEX	2.4G
5	adant	STAR4245	PIFA-Like	I-PEX	5G
6	adant	STAR4245	PIFA-Like	I-PEX	5G
7	adant	STAR4245	PIFA-Like	I-PEX	5G
8	adant	STAR4245	PIFA-Like	I-PEX	5G
9	Galtronics	02102475-07795-1	PCB	I-PEX	6G
10	Galtronics	02102475-07795-2	PCB	I-PEX	6G
11	Galtronics	02102475-07795-3	PCB	I-PEX	6G
12	Galtronics	02102475-07795-4	PCB	I-PEX	6G
13	Galtronics	02102073-07795-1	PCB	I-PEX	BT+Thread
14	Galtronics	02102073-07795-2	PCB	I-PEX	Thread

Ant.	Port	Gain (dBi)							
		2.4G	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	BT	Thread
1	1	4.7	-	-	-	-	-	-	-
2	2	5.8	-	-	-	-	-	-	-
3	3	5.5	-	-	-	-	-	-	-
4	4	4.8	-	-	-	-	-	-	-
5	1	-	5.5	5.5	5.3	4.9	4.9	-	-
6	2	-	5.8	5.8	5.9	5.5	5.5	-	-
7	3	-	5.8	5.8	5.9	5.7	5.7	-	-
8	4	-	5.6	5.6	5.0	5.4	5.4	-	-
Ant.	Port	-	-	U-NII-5	U-NII-6	U-NII-7	U-NII-8		
9	1	-	-	5.555	5.539	5.259	4.785	-	-
10	2	-	-	4.931	4.494	3.604	4.123	-	-
11	3	-	-	5.382	5.247	4.903	4.711	-	-
12	4	-	-	3.534	3.451	4.063	4.325	-	-
13	1	-	-	-	-	-	-	3.355	3.355
14	2	-	-	-	-	-	-	-	4.950

Note 1: The EUT has fourteen antennas.

For 2.4GHz function:

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

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

For 5GHz function:

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

Ant. 5 (port 1), Ant. 6 (port 2), Ant. 7 (port 3) and Ant. 8 (port 4) could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax mode (4TX/4RX)

Ant. 9 (port 1), Ant. 10 (port 2), Ant. 11 (port 3) and Ant. 12 (port 4) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 13 (port 1) could transmit/receive simultaneously.

For Thread function:

For IEEE 802.15.4 Thread mode (2TX/2RX)

Ant. 13 (port 1) and Ant. 14 (port 2) could transmit/receive simultaneously.

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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

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

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
Thread_1TX(Port1)	0.449	3.48	916.875u	3k
Thread_1TX(Port2)	0.428	3.69	914.375u	3k

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	Edward Wang	22.6~23.4℃ / 54.7~56.3%	03/Apr/2023
RF Conducted	TH07-HY	Xie Xun	24.2~24.9℃ / 54~59%	22/Mar/2023
Radiated	03CH24-HY	Simon Cheng	22.2~23.4℃ / 50~52%	21/Mar/2023~26/Mar/2023
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated (Co-location)	03CH09-HY	Henry Ho	22.2~23.4℃ / 50~52%	07/Apr/2023

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	Dos 6.1
------------------------------	---------

Mode	Power Setting
Thread_1TX(Port1)	-
2405MHz	200
2440MHz	200
2475MHz	200
2480MHz	164
Thread_1TX(Port2)	-
2405MHz	200
2440MHz	200
2475MHz	200
2480MHz	124

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		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	2.4G+5G+6E+BT
2	2.4G+5G+6E+Thread
Refer to Sporton Test Report No.: FA330713 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
PoE	Brand Name	DELTA	Model Name	ADH-45AR N
	Power Rating	I/P: 100 - 240Vac, 1.5A, O/P: 56.0Vdc, 0.805A		

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

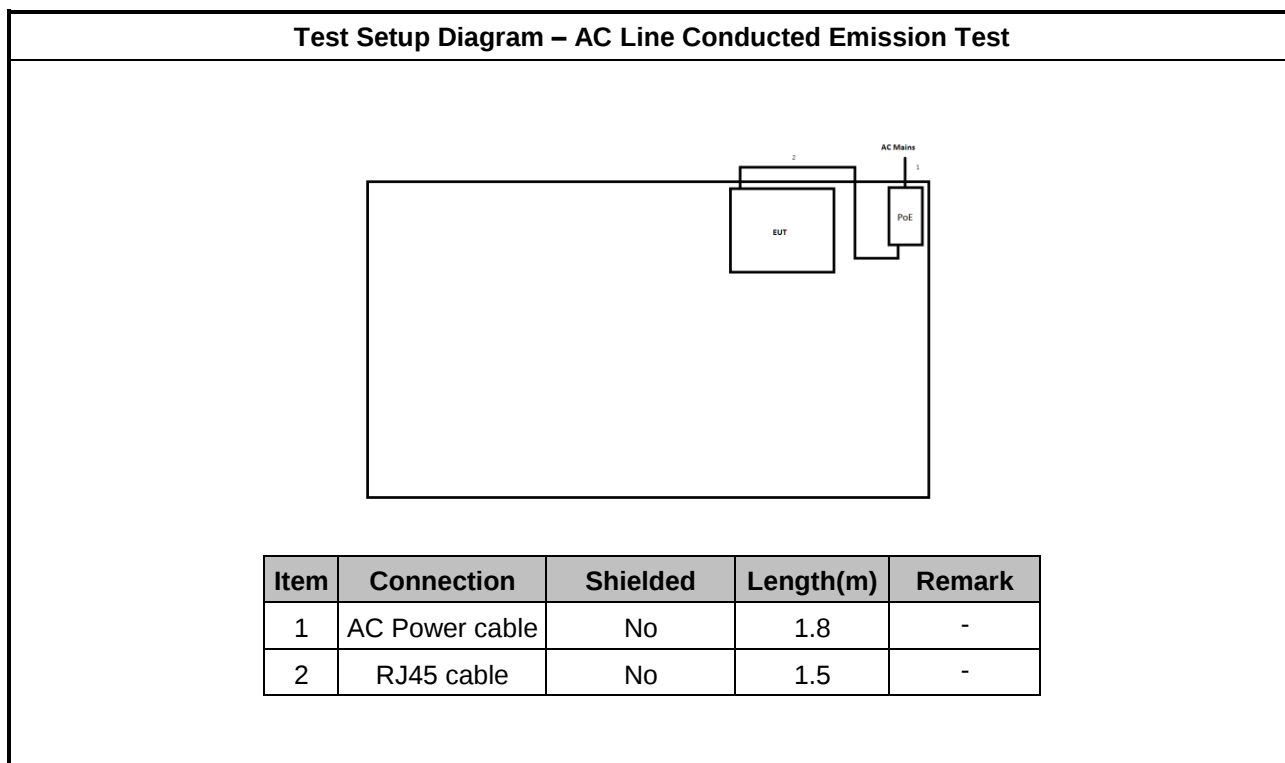
2.4 Support Equipment

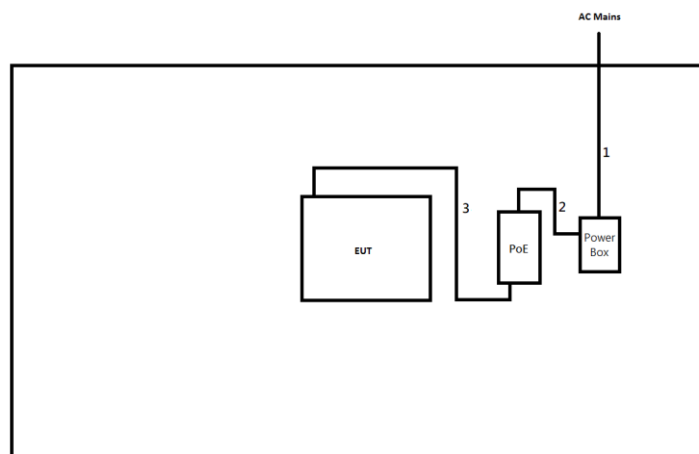
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 cable	Power sync	CAT-6E-10	-	-
2	AC Power cable	I-SHENG	AC CORD 600mm	-	-
3	RJ45 cable	Power sync	CAT-6E-10	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 cable	Power sync	CAT-6E-10	-	-
2	AC Power cable	I-SHENG	AC CORD 600mm	-	-
3	RJ45 cable	Power sync	CAT-6E-10	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.8	-
3	RJ45 cable	No	1.5	-

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

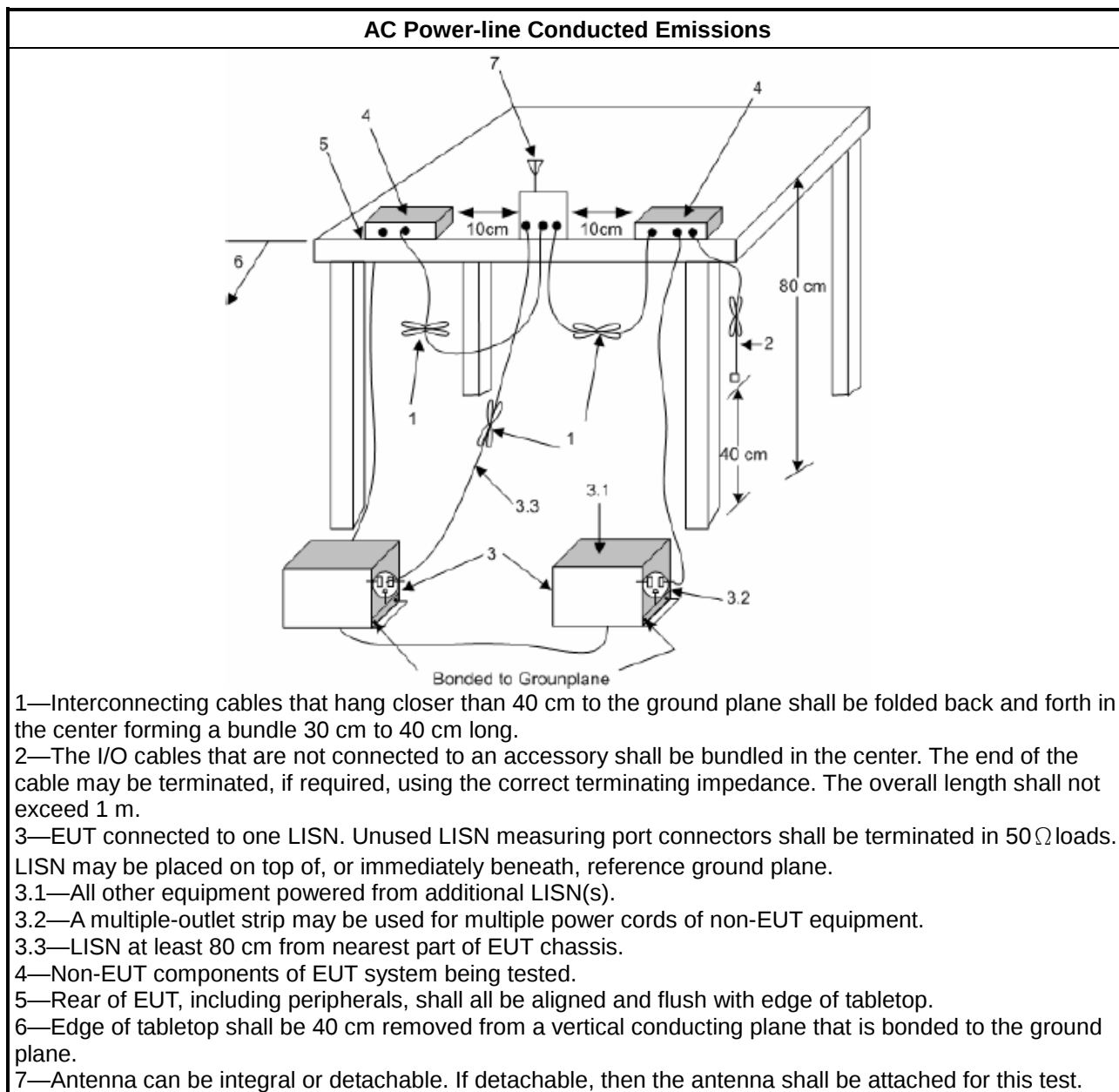
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

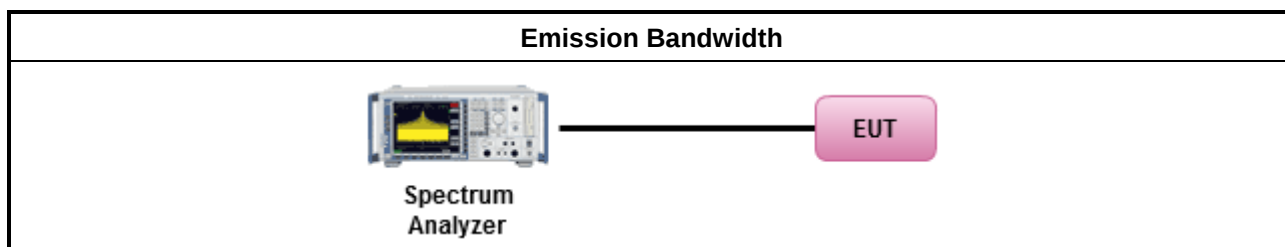
3.2.2 Measuring Instruments

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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ 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.	

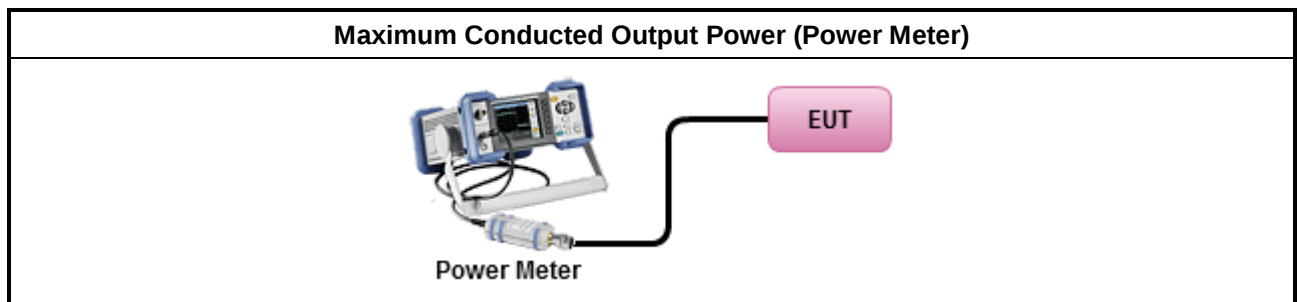
3.3.2 Measuring Instruments

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

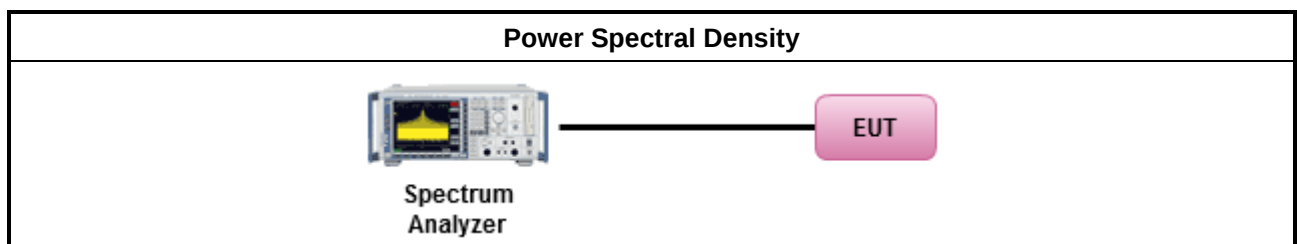
3.4.2 Measuring Instruments

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.	

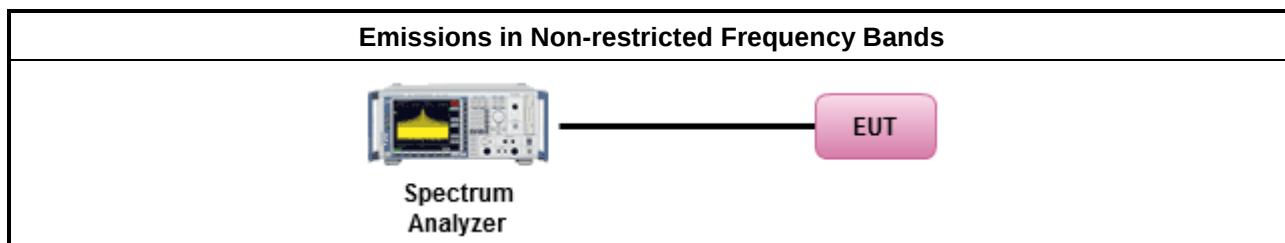
3.5.2 Measuring Instruments

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

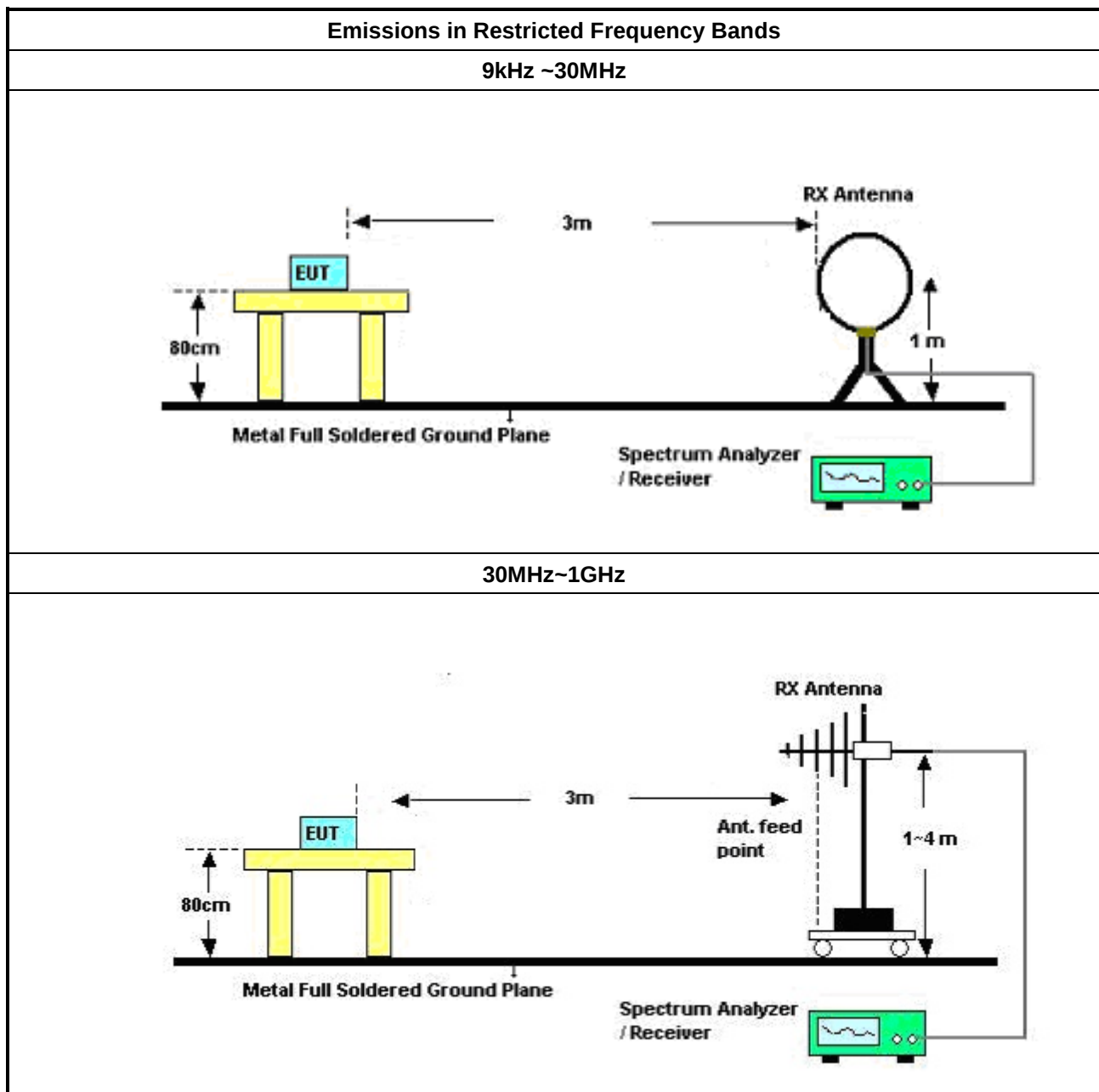
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted 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.

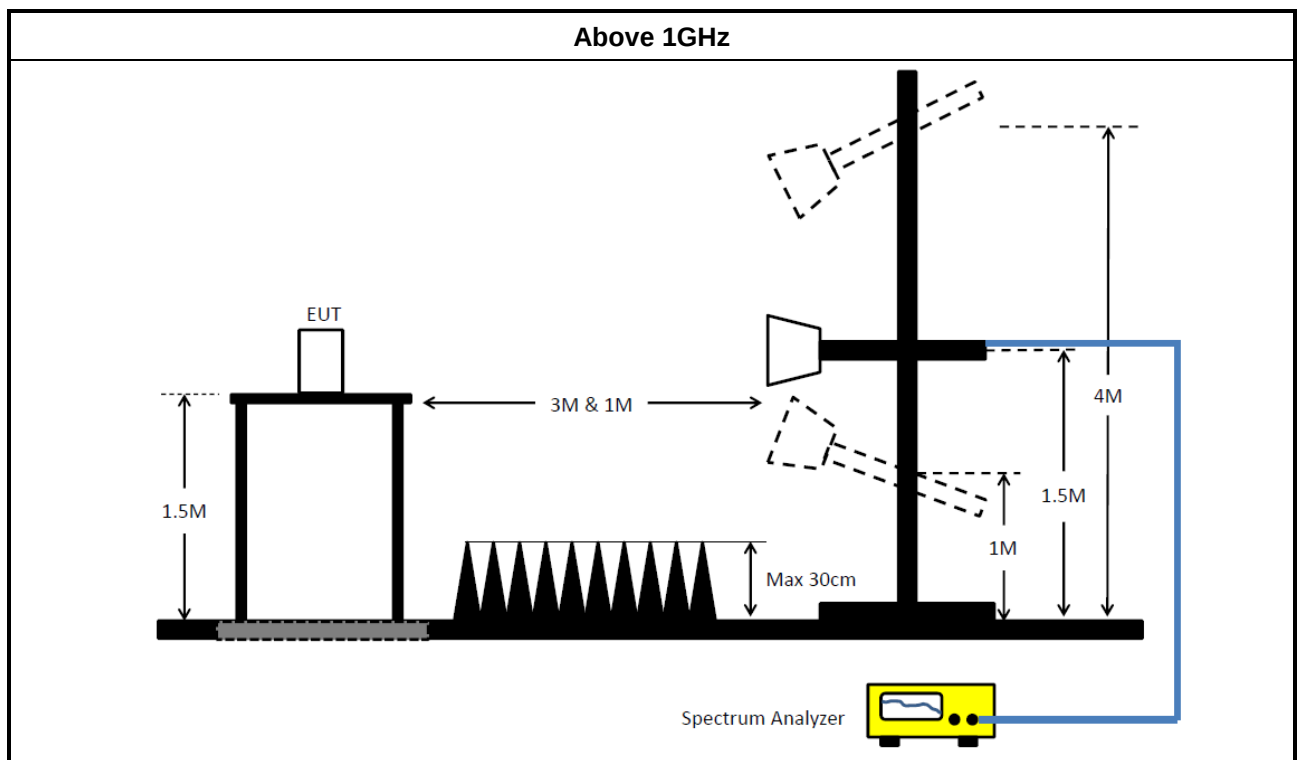
3.6.4 Measurement Results Calculation

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	R&S	ESR	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	16/Feb/2023	15/Feb/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	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	10Hz~40GHz	14/Feb/2023	13/Feb/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	14/Dec/2022	13/Dec/2023
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	14/Dec/2022	13/Dec/2023
SENSE-15247_DTS	Sporton	V5.11.5	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	17/Aug/2022	16/Aug/2023
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	11/Aug/2022	10/Aug/2023
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	23/Aug/2022	22/Aug/2023
Pre-Amplifier	Agilent	8447D	2944A06292	30MHz~1GHz	27/Apr/2022	26/Apr/2023
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D	35376 / 02	30MHz~1GHz	23/Apr/2022	22/Apr/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	22/Aug/2022	21/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz ~18GHz	09/Aug/2022	08/Aug/2023
N.S.A. Measurement	TDK	3m SAC	03CH24-HY	30MHz ~1GHz 3M	24/Aug/2022	23/Aug/2023
RF Cable 2.5m	HUBER+SUHNER	SUOFLEX 102	03CH24-cable-03	1GHz ~40GHz	25/Jul/2022	24/Jul/2023
RF Cable 5.0m	HUBER+SUHNER	SUOFLEX 102	03CH24-cable-04	1GHz ~40GHz	25/Jul/2022	24/Jul/2023
RF Cable 2.5m	HUBER+SUHNER	SUOFLEX 104	03CH24-cable-01	9kHz~18GHz	25/Jul/2022	24/Jul/2023
RF Cable 7.0m	HUBER+SUHNER	SUOFLEX 104	03CH24-cable-02	9kHz~18GHz	25/Jul/2022	24/Jul/2023
Site V.S.W.R	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3M	05/Sep/2023	04/Sep/2023
Loop Antenna	R&S	HFH2-Z2	100330	9kHz~30MHz	01/Nov/2022	31/Oct/2023
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE-15247_DTS	Sporton	v5.11	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	Riken	SAC-3M	03CH09-HY	1GHz~18GHz 3m	14/Mar/2023	13/Mar/2024
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	30/Dec/2022	29/Dec/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	21/Feb/2023	20/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	14/May/2022	13/May/2023
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-EMI	Sporton	Sporton	V5.11.3	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	23.495M	42.52	50.00	-7.48	Neutral

Result

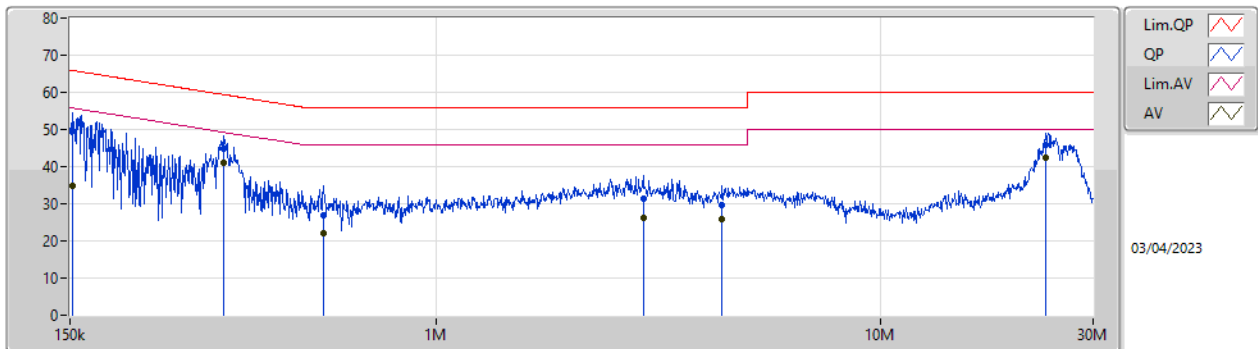
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	154.251k	48.77	65.77	-17.00	Line	-
Mode 1	Pass	AV	154.251k	35.63	55.77	-20.14	Line	-
Mode 1	Pass	QP	321.537k	42.10	59.67	-17.57	Line	-
Mode 1	Pass	AV	321.537k	32.93	49.67	-16.74	Line	-
Mode 1	Pass	QP	400.483k	31.43	57.84	-26.41	Line	-
Mode 1	Pass	AV	400.483k	22.86	47.84	-24.98	Line	-
Mode 1	Pass	QP	3.458M	32.44	56.00	-23.56	Line	-
Mode 1	Pass	AV	3.458M	27.92	46.00	-18.08	Line	-
Mode 1	Pass	QP	6.789M	31.59	60.00	-28.41	Line	-
Mode 1	Pass	AV	6.789M	27.74	50.00	-22.26	Line	-
Mode 1	Pass	QP	23.683M	45.06	60.00	-14.94	Line	-
Mode 1	Pass	AV	23.683M	40.17	50.00	-9.83	Line	-
Mode 1	Pass	QP	152.414k	49.49	65.87	-16.38	Neutral	-
Mode 1	Pass	AV	152.414k	34.78	55.87	-21.09	Neutral	-
Mode 1	Pass	QP	333.299k	44.91	59.37	-14.46	Neutral	-
Mode 1	Pass	AV	333.299k	41.01	49.37	-8.36	Neutral	-
Mode 1	Pass	QP	557.805k	26.87	56.00	-29.13	Neutral	-
Mode 1	Pass	AV	557.805k	21.95	46.00	-24.05	Neutral	-
Mode 1	Pass	QP	2.924M	31.37	56.00	-24.63	Neutral	-
Mode 1	Pass	AV	2.924M	26.13	46.00	-19.87	Neutral	-
Mode 1	Pass	QP	4.394M	29.52	56.00	-26.48	Neutral	-
Mode 1	Pass	AV	4.394M	25.79	46.00	-20.21	Neutral	-
Mode 1	Pass	QP	23.495M	45.99	60.00	-14.01	Neutral	-
Mode 1	Pass	AV	23.495M	42.52	50.00	-7.48	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	154.251k	48.77	65.77	-17.00	19.61	Line	-	29.16	9.65	0.03	9.93			
AV	154.251k	35.63	55.77	-20.14	19.61	Line	-	16.02	9.65	0.03	9.93			
QP	321.537k	42.10	59.67	-17.57	19.63	Line	-	22.47	9.64	0.04	9.95			
AV	321.537k	32.93	49.67	-16.74	19.63	Line	-	13.30	9.64	0.04	9.95			
QP	400.483k	31.43	57.84	-26.41	19.64	Line	-	11.79	9.64	0.04	9.96			
AV	400.483k	22.86	47.84	-24.98	19.64	Line	-	3.22	9.64	0.04	9.96			
QP	3.458M	32.44	56.00	-23.56	19.75	Line	-	12.69	9.70	0.12	9.93			
AV	3.458M	27.92	46.00	-18.08	19.75	Line	-	8.17	9.70	0.12	9.93			
QP	6.789M	31.59	60.00	-28.41	19.87	Line	-	11.72	9.76	0.16	9.95			
AV	6.789M	27.74	50.00	-22.26	19.87	Line	-	7.87	9.76	0.16	9.95			
QP	23.683M	45.06	60.00	-14.94	20.06	Line	-	25.00	9.79	0.30	9.97			
AV	23.683M	40.17	50.00	-9.83	20.06	Line	-	20.11	9.79	0.30	9.97			

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	152.414k	49.49	65.87	-16.38	19.59	Neutral	-	29.90	9.63	0.03	9.93			
AV	152.414k	34.78	55.87	-21.09	19.59	Neutral	-	15.19	9.63	0.03	9.93			
QP	333.299k	44.91	59.37	-14.46	19.62	Neutral	-	25.29	9.63	0.04	9.95			
AV	333.299k	41.01	49.37	-8.36	19.62	Neutral	-	21.39	9.63	0.04	9.95			
QP	557.805k	26.87	56.00	-29.13	19.63	Neutral	-	7.24	9.64	0.04	9.95			
AV	557.805k	21.95	46.00	-24.05	19.63	Neutral	-	2.32	9.64	0.04	9.95			
QP	2.924M	31.37	56.00	-24.63	19.71	Neutral	-	11.66	9.67	0.11	9.93			
AV	2.924M	26.13	46.00	-19.87	19.71	Neutral	-	6.42	9.67	0.11	9.93			
QP	4.394M	29.52	56.00	-26.48	19.76	Neutral	-	9.76	9.69	0.14	9.93			
AV	4.394M	25.79	46.00	-20.21	19.76	Neutral	-	6.03	9.69	0.14	9.93			
QP	23.495M	45.99	60.00	-14.01	20.28	Neutral	-	25.71	10.01	0.30	9.97			
AV	23.495M	42.52	50.00	-7.48	20.28	Neutral	-	22.24	10.01	0.30	9.97			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
Thread_1TX(Port1)	1.1M	2.23M	2M23D1D	1.075M	2.199M
Thread_1TX(Port2)	1.081M	2.224M	2M22D1D	1.056M	2.199M

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

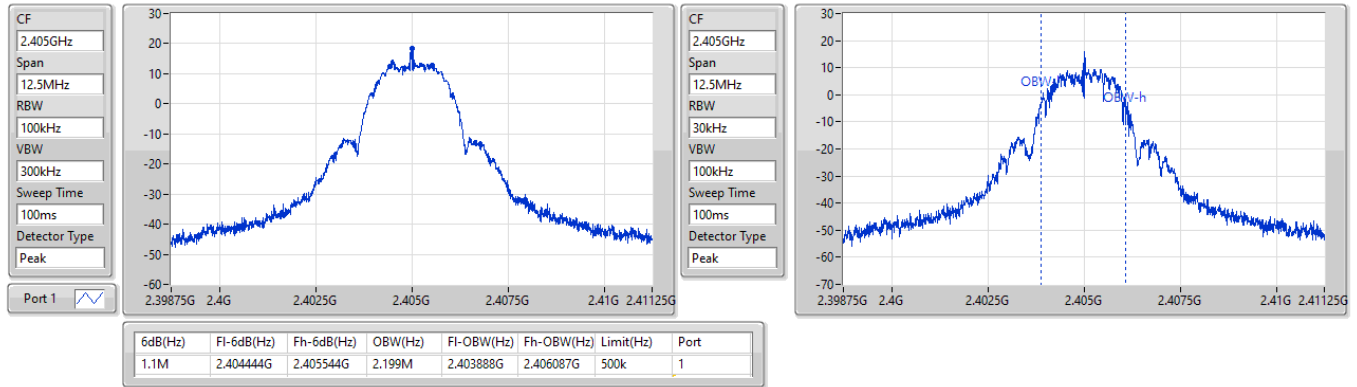
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
Thread_1TX(Port1)	-	-	-	-	-	-
2405MHz	Pass	500k	1.1M	2.199M		
2440MHz	Pass	500k	1.081M	2.199M		
2475MHz	Pass	500k	1.088M	2.218M		
2480MHz	Pass	500k	1.075M	2.23M		
Thread_1TX(Port2)	-	-	-	-	-	-
2405MHz	Pass	500k			1.075M	2.199M
2440MHz	Pass	500k			1.081M	2.205M
2475MHz	Pass	500k			1.075M	2.224M
2480MHz	Pass	500k			1.056M	2.224M

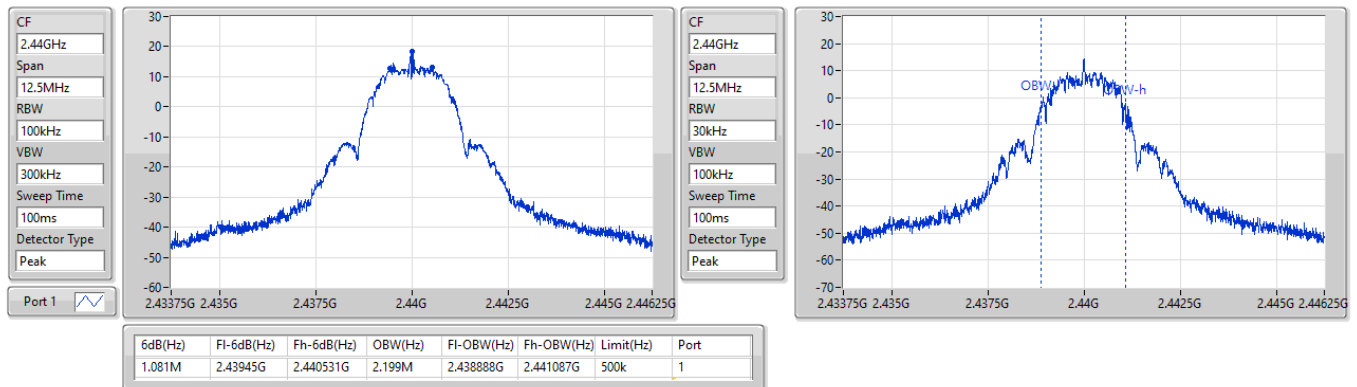
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_Thread_1TX(Port1)
EBW
2405MHz

22/03/2023


2.4-2.4835GHz_Thread_1TX(Port1)
EBW
2440MHz

22/03/2023

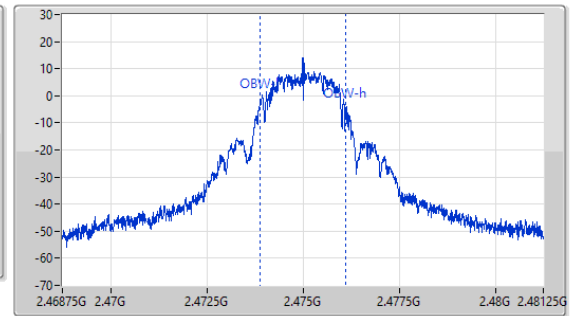
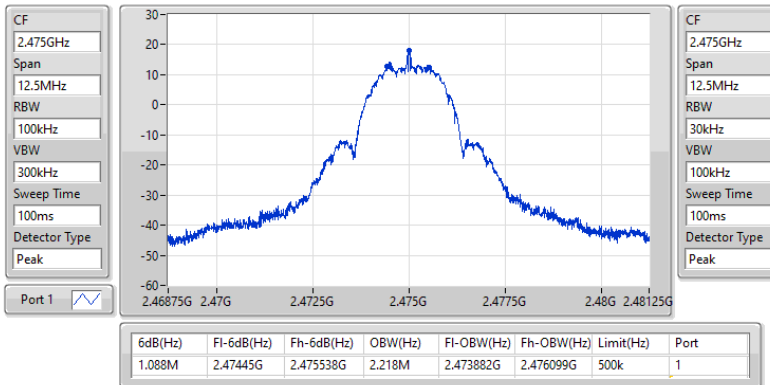


2.4-2.4835GHz_Thread_1TX(Port1)

EBW

2475MHz

22/03/2023

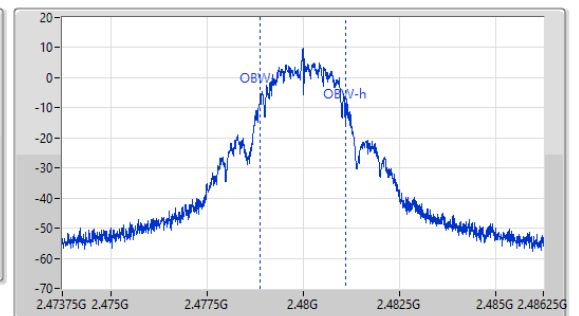
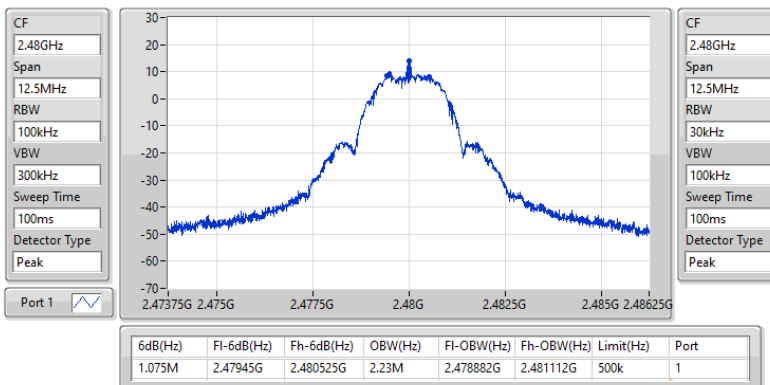


2.4-2.4835GHz_Thread_1TX(Port1)

EBW

2480MHz

22/03/2023

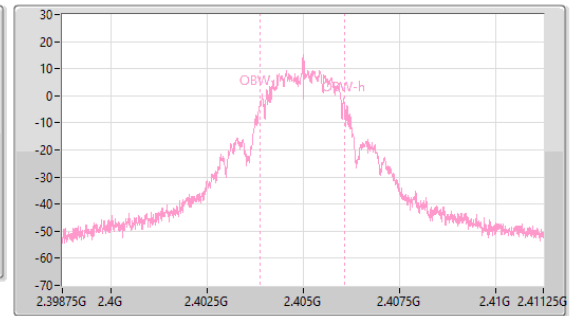
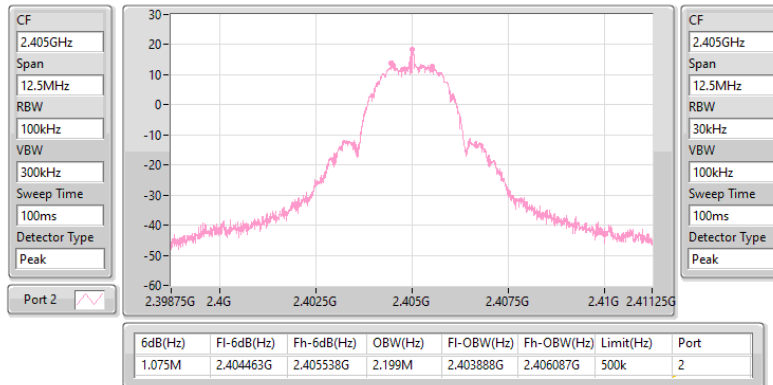


2.4-2.4835GHz_Thread_1TX(Port2)

EBW

2405MHz

22/03/2023

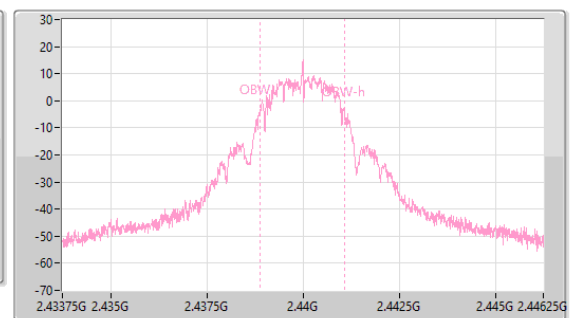
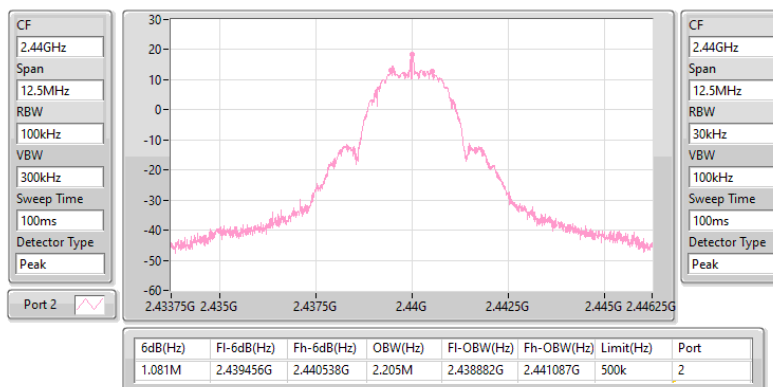


2.4-2.4835GHz_Thread_1TX(Port2)

EBW

2440MHz

22/03/2023

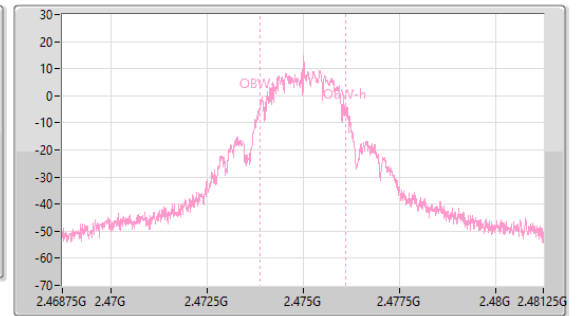
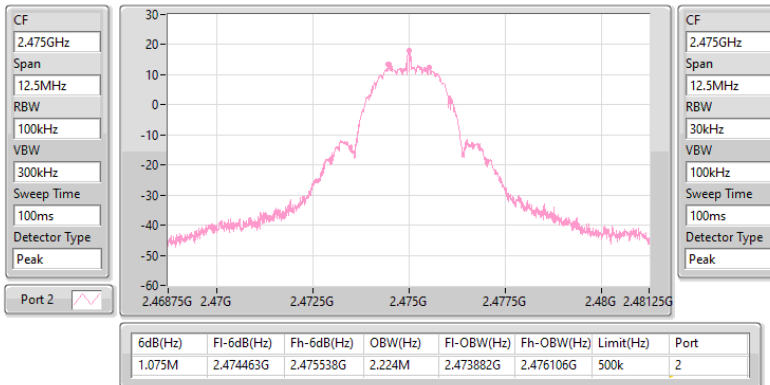


2.4-2.4835GHz_Thread_1TX(Port2)

EBW

2475MHz

22/03/2023

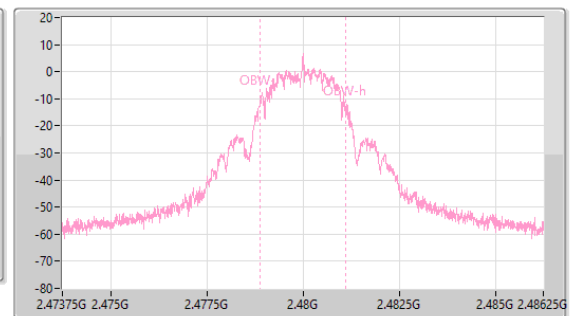
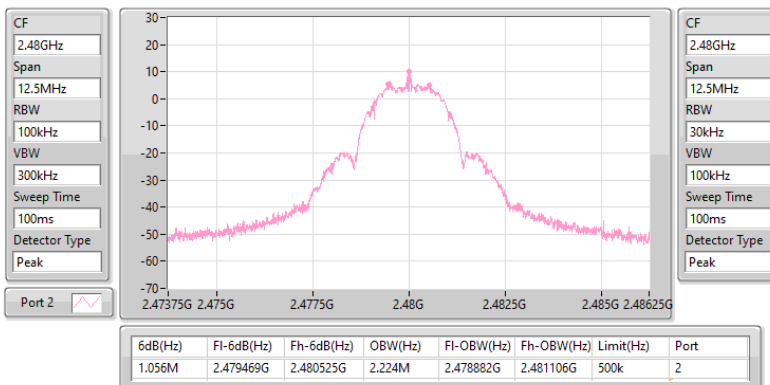


2.4-2.4835GHz_Thread_1TX(Port2)

EBW

2480MHz

22/03/2023





Average Power

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
Thread_1TX(Port1)	18.66	0.07345
Thread_1TX(Port2)	18.68	0.07379



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
Thread_1TX(Port1)	-	-	-	-	-	-
2405MHz	Pass	4.95	18.66		18.66	30.00
2440MHz	Pass	4.95	18.51		18.51	30.00
2475MHz	Pass	4.95	18.31		18.31	30.00
2480MHz	Pass	4.95	14.15		14.15	30.00
Thread_1TX(Port2)	-	-	-	-	-	-
2405MHz	Pass	4.95	-	18.68	18.68	30.00
2440MHz	Pass	4.95	-	18.51	18.51	30.00
2475MHz	Pass	4.95	-	18.26	18.26	30.00
2480MHz	Pass	4.95	-	10.33	10.33	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
Thread_Nss1_1TX(Port1)	3.67
Thread_Nss1_1TX(Port2)	3.80

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
Thread_Nss1_1TX(Port1)	-	-	-	-	-	-
2405MHz	Pass	4.95	3.67		3.67	8.00
2440MHz	Pass	4.95	3.62		3.62	8.00
2475MHz	Pass	4.95	3.33		3.33	8.00
2480MHz	Pass	4.95	-1.49		-1.49	8.00
Thread_Nss1_1TX(Port2)	-	-	-	-	-	-
2405MHz	Pass	4.95	-	3.80	3.80	8.00
2440MHz	Pass	4.95	-	3.75	3.75	8.00
2475MHz	Pass	4.95	-	3.08	3.08	8.00
2480MHz	Pass	4.95	-	-4.48	-4.48	8.00

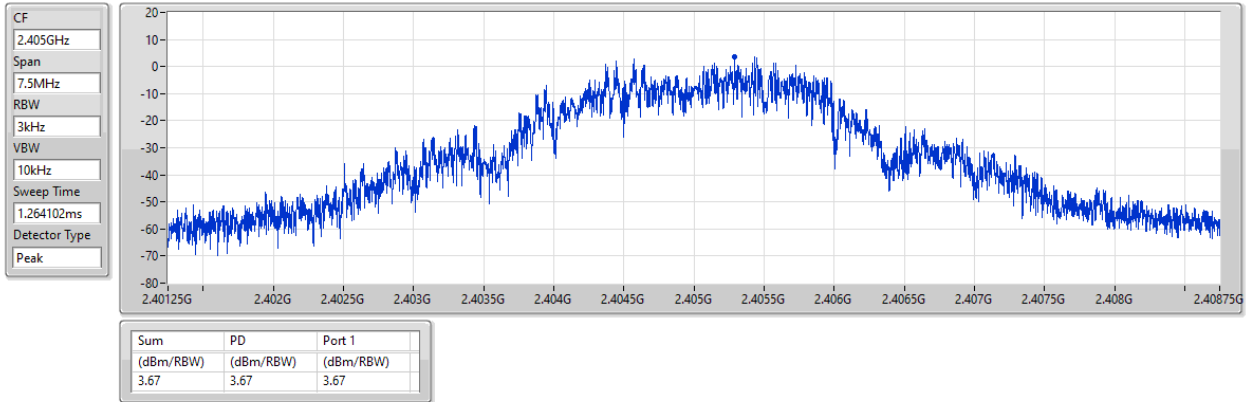
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_Thread_Nss1_1TX(Port1)

PSD

2405MHz

22/03/2023

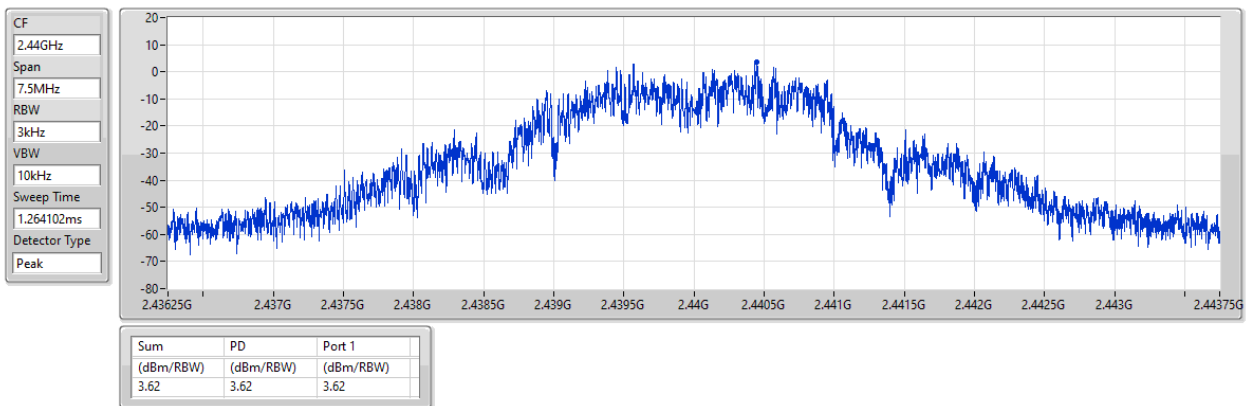


2.4-2.4835GHz_Thread_Nss1_1TX(Port1)

PSD

2440MHz

22/03/2023

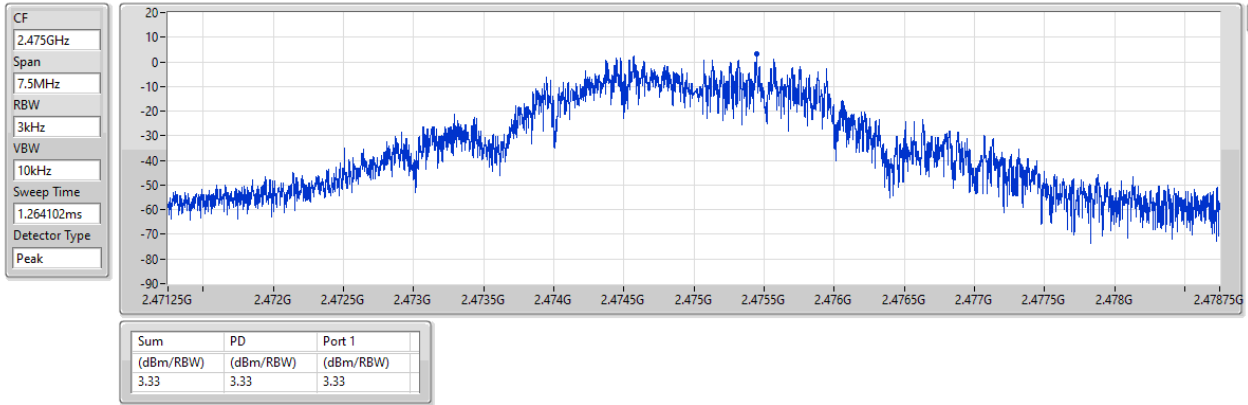


2.4-2.4835GHz_Thread_Nss1_1TX(Port1)

PSD

2475MHz

22/03/2023

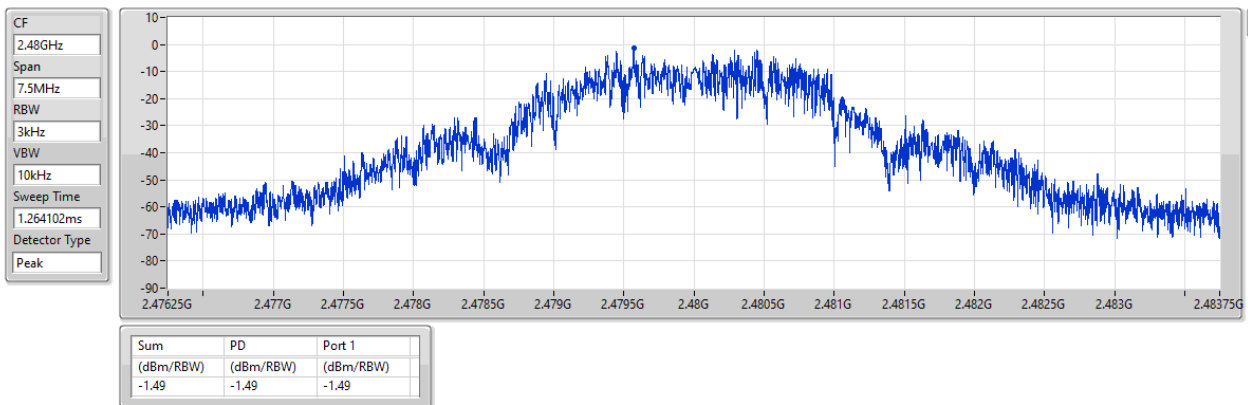


2.4-2.4835GHz_Thread_Nss1_1TX(Port1)

PSD

2480MHz

22/03/2023

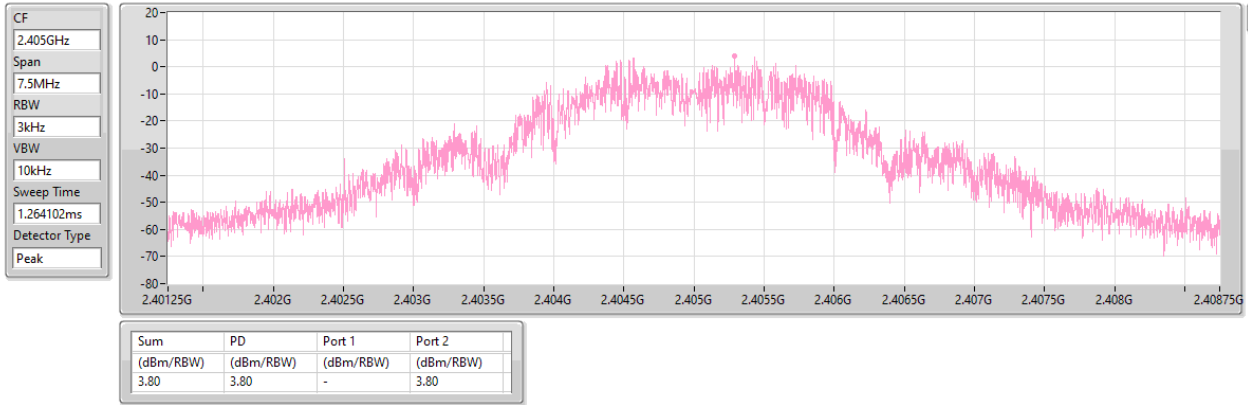


2.4-2.4835GHz_Thread_Nss1_1TX(Port2)

PSD

2405MHz

22/03/2023

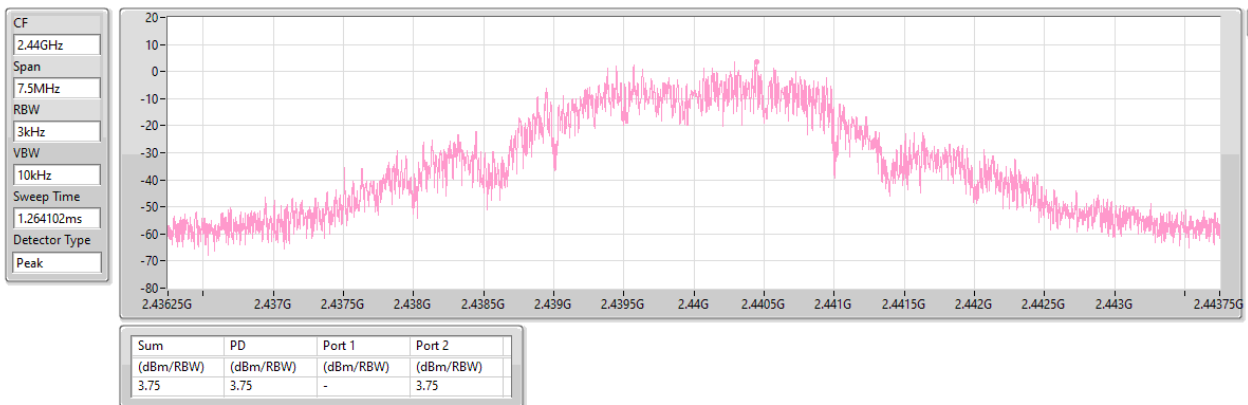


2.4-2.4835GHz_Thread_Nss1_1TX(Port2)

PSD

2440MHz

22/03/2023

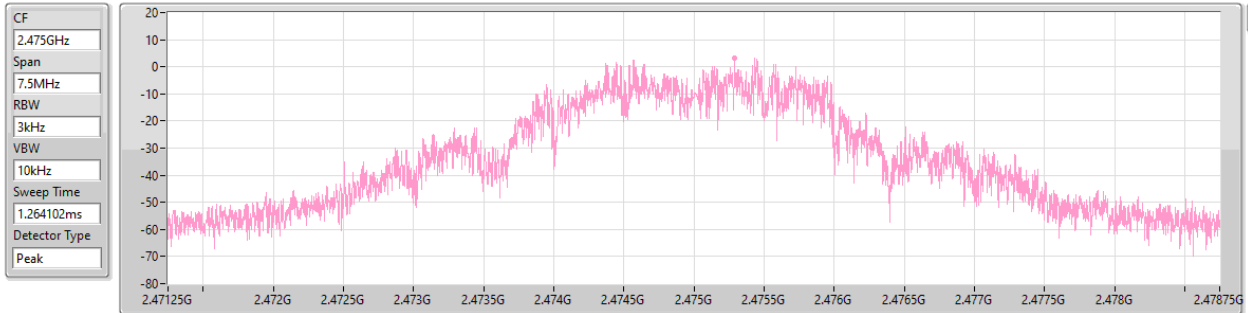


2.4-2.4835GHz_Thread_Nss1_1TX(Port2)

PSD

2475MHz

22/03/2023



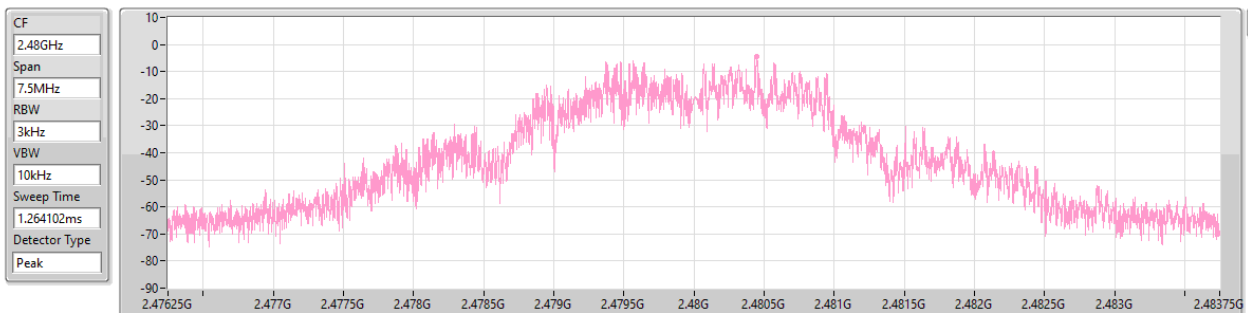
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.08	3.08	-	3.08

2.4-2.4835GHz_Thread_Nss1_1TX(Port2)

PSD

2480MHz

22/03/2023



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.48	-4.48	-	-4.48



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)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
Thread_1TX(Port1)	Pass	2.40484G	18.17	-11.83	2.14102G	-55.71	2.39982G	-39.86	2.4G	-40.19	24.50767G	-41.69	1
Thread_1TX(Port2)	Pass	2.40501G	18.53	-11.47	2.0891G	-55.50	2.39954G	-39.65	2.4G	-38.71	24.52455G	-41.31	2

Result

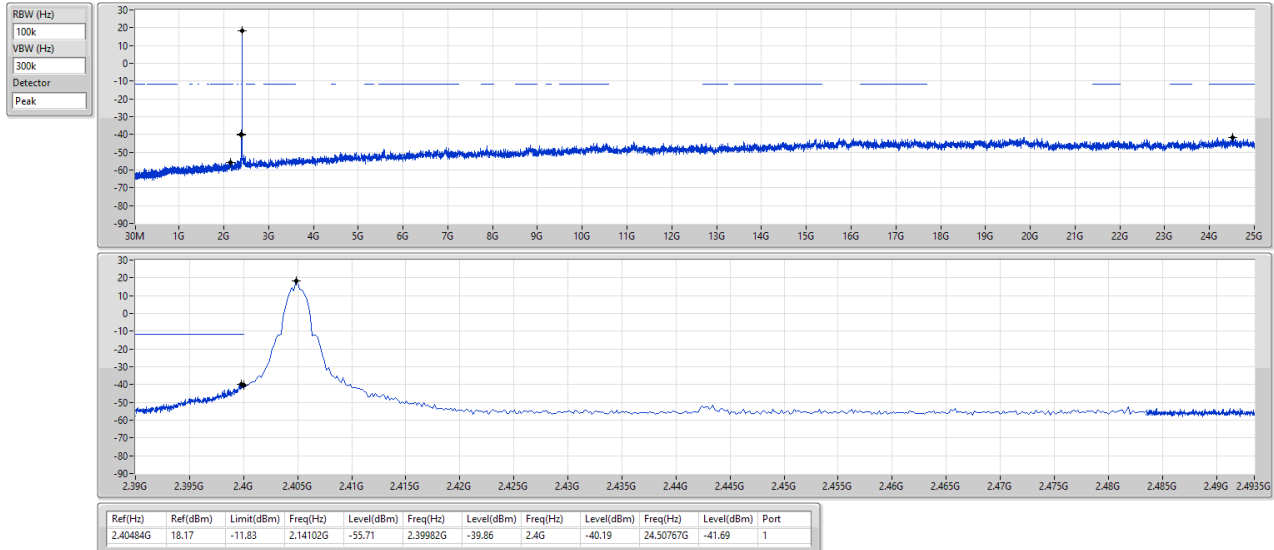
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
Thread_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.40484G	18.17	-11.83	2.14102G	-55.71	2.39982G	-39.86	2.4G	-40.19	24.50767G	-41.69	1
2440MHz	Pass	2.40484G	18.17	-11.83	1.86018G	-55.53	2.39852G	-54.36	2.4G	-56.32	16.5038G	-42.36	1
2475MHz	Pass	2.40484G	18.17	-11.83	2.18586G	-55.27	2.3982G	-49.71	2.4G	-56.12	24.53018G	-41.59	1
2480MHz	Pass	2.40484G	18.17	-11.83	2.17288G	-55.25	2.3938G	-53.91	2.4G	-55.98	16.2309G	-41.74	1
Thread_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.40501G	18.53	-11.47	2.0891G	-55.50	2.39954G	-39.65	2.4G	-38.71	24.52455G	-41.31	2
2440MHz	Pass	2.40501G	18.53	-11.47	2.14692G	-55.38	2.39744G	-53.54	2.4G	-55.42	5.17459G	-41.71	2
2475MHz	Pass	2.40501G	18.53	-11.47	2.0655G	-54.63	2.3982G	-50.25	2.4G	-55.84	24.14194G	-41.82	2
2480MHz	Pass	2.40501G	18.53	-11.47	2.11506G	-55.67	2.39434G	-53.77	2.4G	-54.34	24.27135G	-42.29	2

2.4-2.4835GHz_Thread_1TX(Port1)

CSEndB

2405MHz

22/03/2023

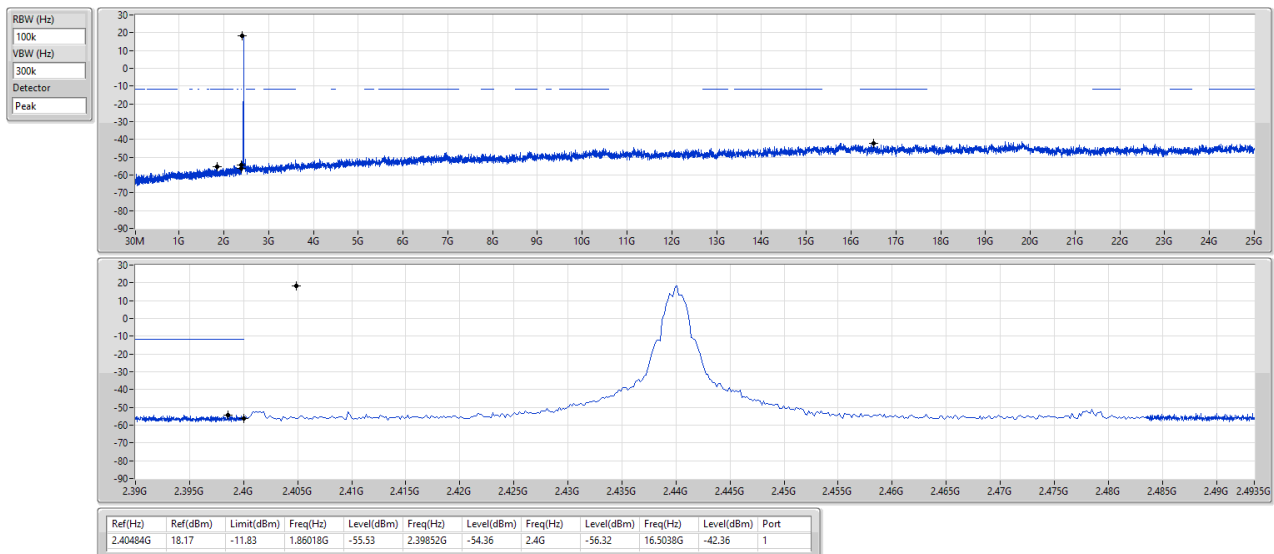


2.4-2.4835GHz_Thread_1TX(Port1)

CSEndB

2440MHz

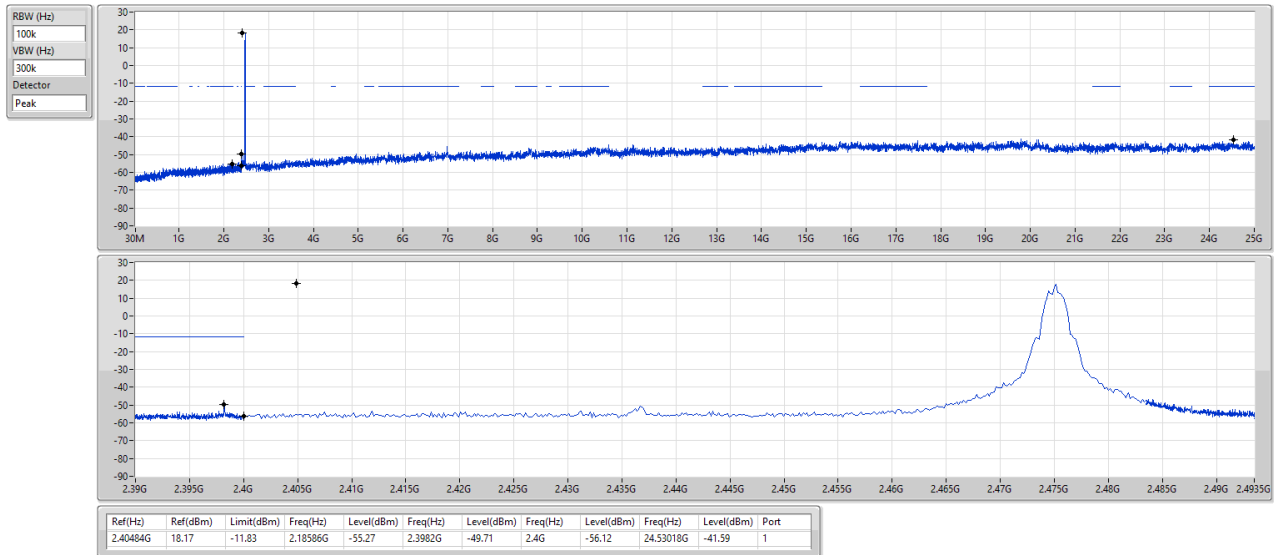
22/03/2023



2.4-2.4835GHz_Thread_1TX(Port1)

CSEndB

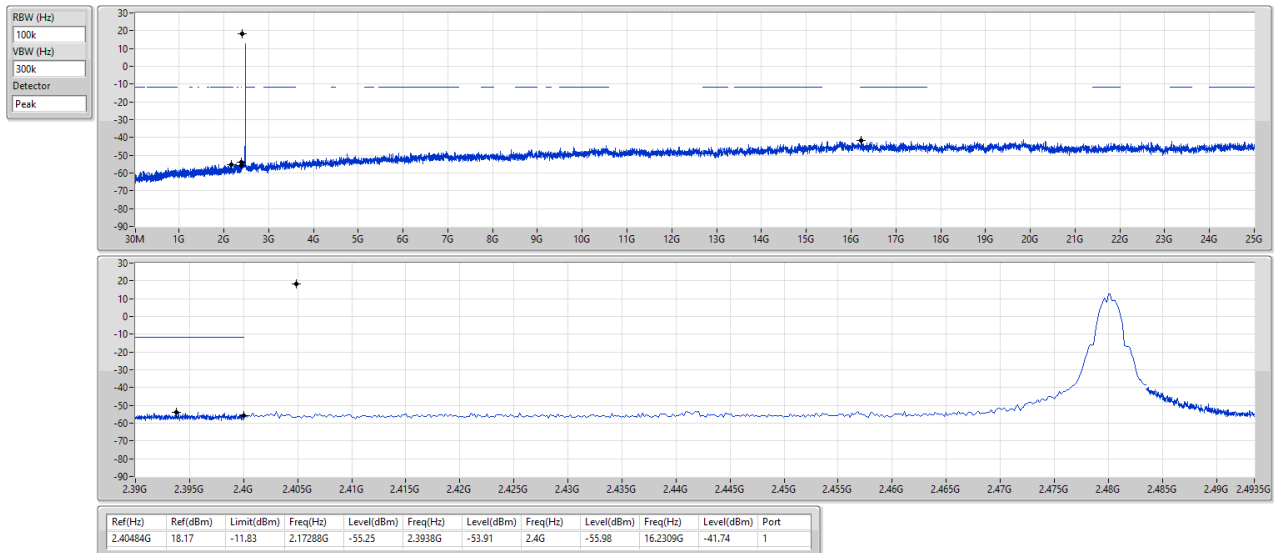
2475MHz



2.4-2.4835GHz_Thread_1TX(Port1)

CSEndB

2480MHz



2.4-2.4835GHz_Thread_1TX(Port2)

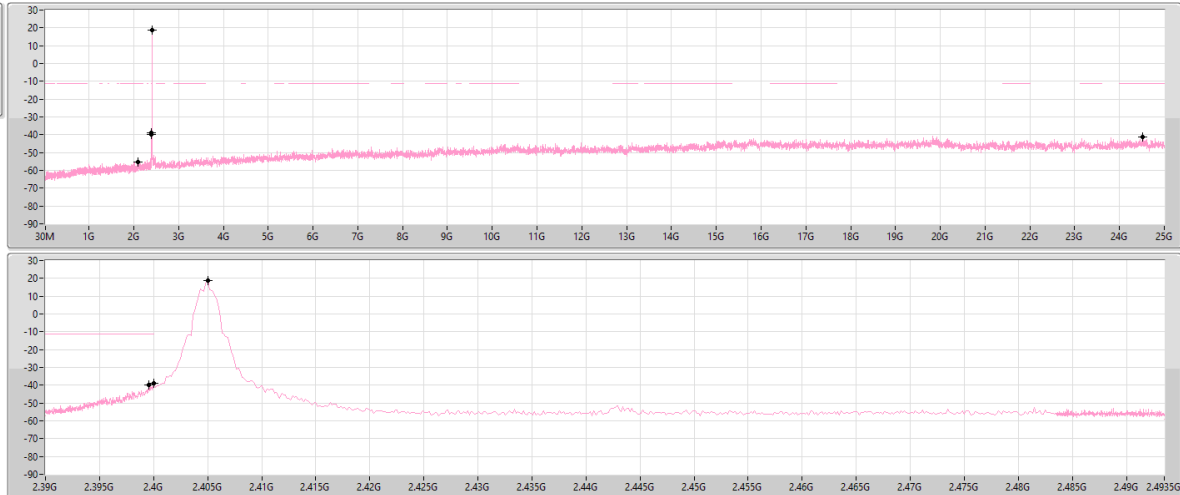
CSEndB

2405MHz

22/03/2023

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

Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40501G	18.53	-11.47	2.0891G	-55.50	2.39954G	-39.65	2.4G	-38.71	2.452455G	-41.31	2

2.4-2.4835GHz_Thread_1TX(Port2)

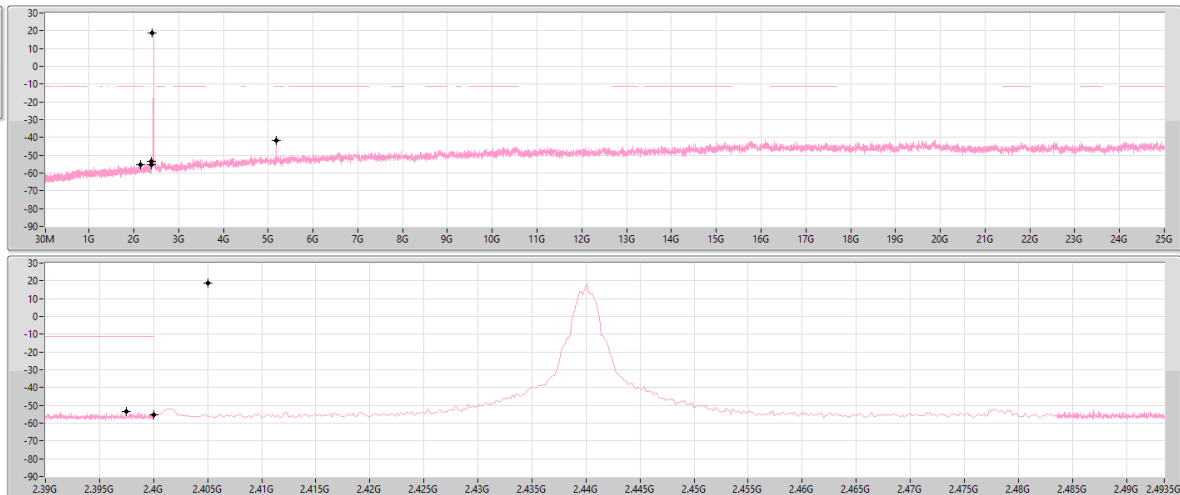
CSEndB

2440MHz

22/03/2023

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

Port 2



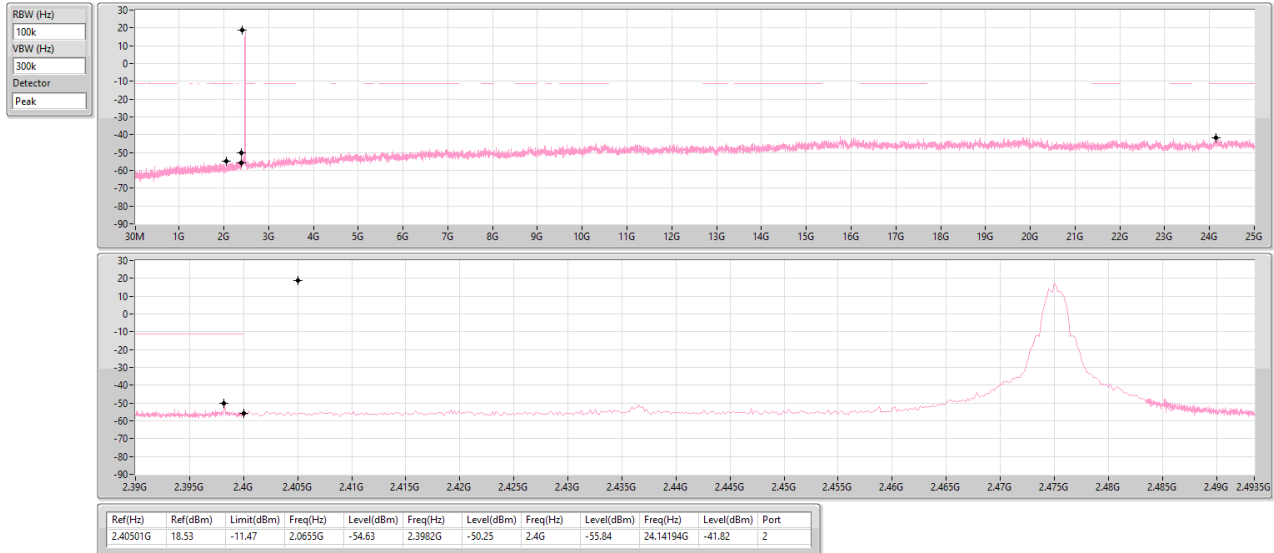
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40501G	18.53	-11.47	2.14692G	-55.38	2.39744G	-53.54	2.4G	-55.42	5.17459G	-41.71	2

2.4-2.4835GHz_Thread_1TX(Port2)

CSEndB

2475MHz

22/03/2023

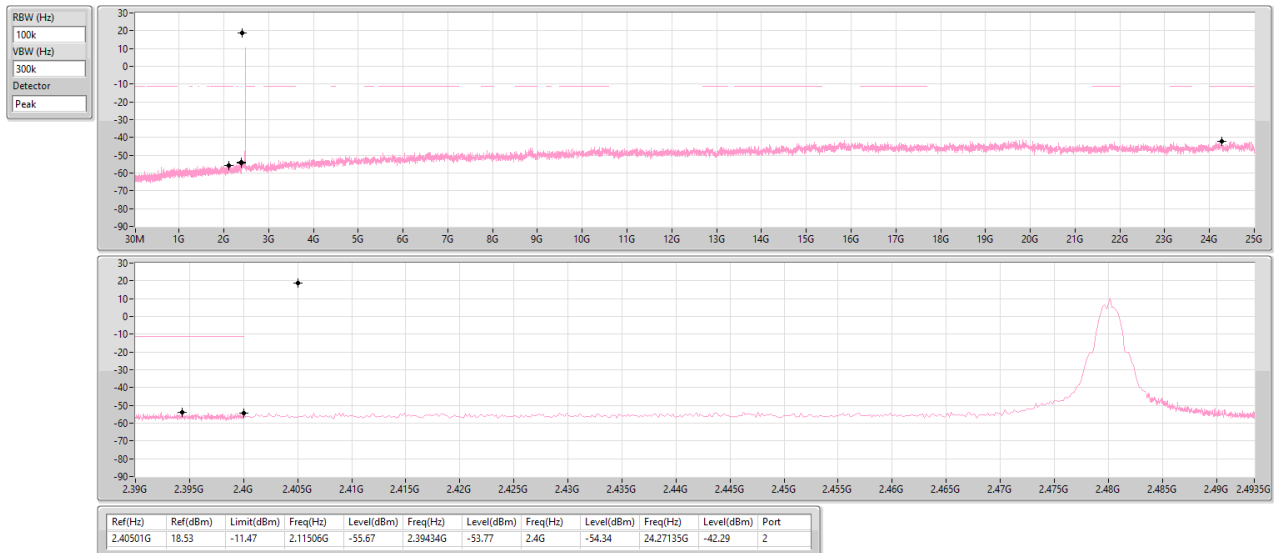


2.4-2.4835GHz_Thread_1TX(Port2)

CSEndB

2480MHz

22/03/2023





Summary

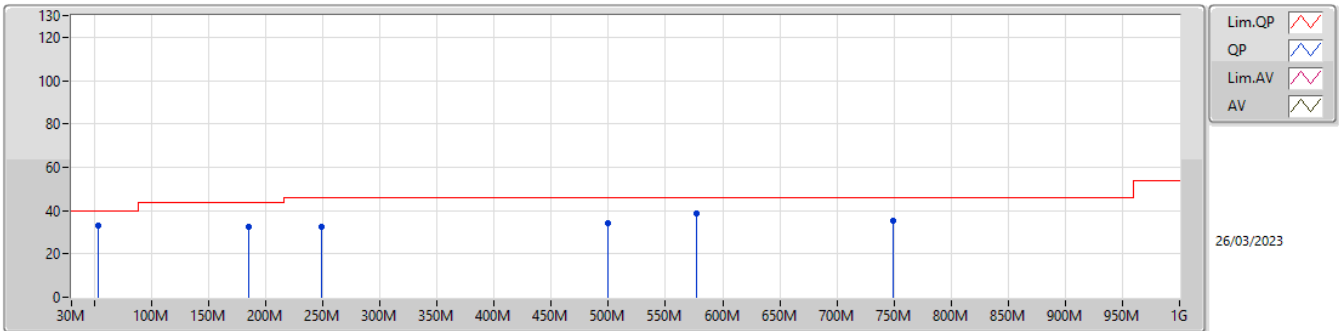
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
Thread_1TX(Port1)	Pass	PK	412.18M	42.54	46.00	-3.46	3	Horizontal	360	1.00
Thread_1TX(Port2)	Pass	PK	714.82M	40.36	46.00	-5.64	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Thread_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	53.28M	33.27	40.00	-6.73	3	Vertical	0	1.00
2440MHz	Pass	PK	185.2M	32.40	43.50	-11.10	3	Vertical	0	1.00
2440MHz	Pass	PK	249.22M	32.60	46.00	-13.40	3	Vertical	0	1.00
2440MHz	Pass	PK	499.48M	34.25	46.00	-11.75	3	Vertical	0	1.00
2440MHz	Pass	PK	577.08M	38.94	46.00	-7.06	3	Vertical	0	1.00
2440MHz	Pass	PK	749.74M	35.05	46.00	-10.95	3	Vertical	0	1.00
2440MHz	Pass	PK	90.14M	31.60	43.50	-11.90	3	Horizontal	360	1.00
2440MHz	Pass	PK	185.2M	34.94	43.50	-8.56	3	Horizontal	360	1.00
2440MHz	Pass	PK	249.22M	37.57	46.00	-8.43	3	Horizontal	360	1.00
2440MHz	Pass	PK	412.18M	42.54	46.00	-3.46	3	Horizontal	360	1.00
2440MHz	Pass	PK	499.48M	35.36	46.00	-10.64	3	Horizontal	360	1.00
2440MHz	Pass	PK	749.74M	39.07	46.00	-6.93	3	Horizontal	360	1.00
Thread_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	53.28M	33.76	40.00	-6.24	3	Vertical	0	1.00
2440MHz	Pass	PK	255.04M	32.35	46.00	-13.65	3	Vertical	0	1.00
2440MHz	Pass	PK	392.78M	36.03	46.00	-9.97	3	Vertical	0	1.00
2440MHz	Pass	PK	499.48M	34.25	46.00	-11.75	3	Vertical	0	1.00
2440MHz	Pass	PK	577.08M	38.89	46.00	-7.11	3	Vertical	0	1.00
2440MHz	Pass	PK	714.82M	40.36	46.00	-5.64	3	Vertical	0	1.00
2440MHz	Pass	PK	90.14M	34.20	43.50	-9.30	3	Horizontal	360	1.00
2440MHz	Pass	PK	305.48M	37.21	46.00	-8.79	3	Horizontal	360	1.00
2440MHz	Pass	PK	421.88M	40.36	46.00	-5.64	3	Horizontal	360	1.00
2440MHz	Pass	PK	499.48M	35.10	46.00	-10.90	3	Horizontal	360	1.00
2440MHz	Pass	PK	577.08M	33.50	46.00	-12.50	3	Horizontal	360	1.00
2440MHz	Pass	PK	749.74M	39.71	46.00	-6.29	3	Horizontal	360	1.00

2.4-2.4835GHz_Thread_1TX(Port1)

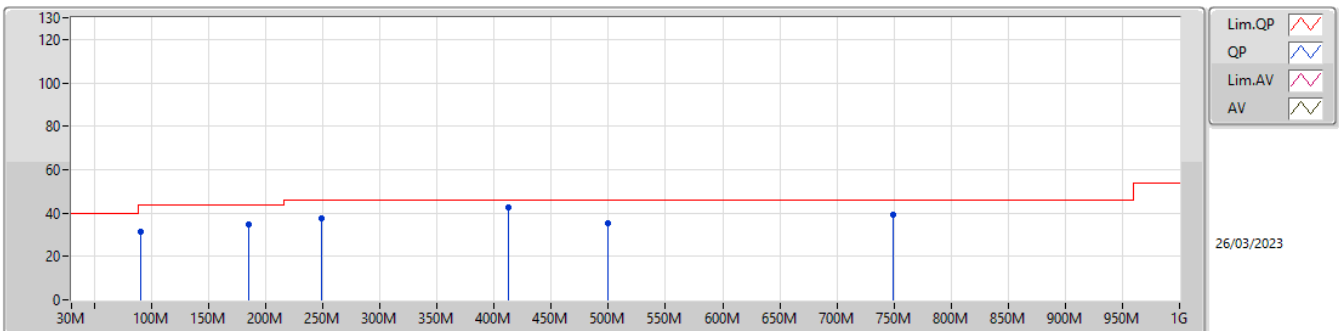
2440MHz_PoE



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	53.28M	33.27	40.00	-6.73	-14.65	3	Vertical	0	1.00	47.92	12.07	0.56	27.28
PK	185.2M	32.40	43.50	-11.10	-11.70	3	Vertical	0	1.00	44.10	14.15	0.99	26.84
PK	249.22M	32.60	46.00	-13.40	-8.03	3	Vertical	0	1.00	40.63	17.38	1.14	26.55
PK	499.48M	34.25	46.00	-11.75	-3.81	3	Vertical	0	1.00	38.06	22.52	1.60	27.93
PK	577.08M	38.94	46.00	-7.06	-2.83	3	Vertical	0	1.00	41.77	23.68	1.71	28.22
PK	749.74M	35.05	46.00	-10.95	-2.37	3	Vertical	0	1.00	37.42	24.78	0.95	28.10

2.4-2.4835GHz_Thread_1TX(Port1)

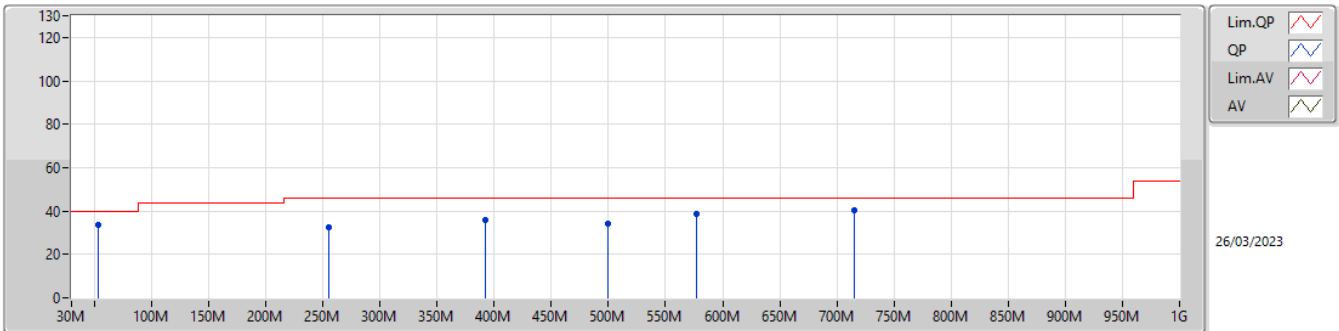
2440MHz_PoE



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	90.14M	31.60	43.50	-11.90	-12.48	3	Horizontal	360	1.00	44.08	14.02	0.71	27.21
PK	185.2M	34.94	43.50	-8.56	-11.70	3	Horizontal	360	1.00	46.64	14.15	0.99	26.84
PK	249.22M	37.57	46.00	-8.43	-8.03	3	Horizontal	360	1.00	45.60	17.38	1.14	26.55
PK	412.18M	42.54	46.00	-3.46	-4.67	3	Horizontal	360	1.00	47.21	21.32	1.45	27.44
PK	499.48M	35.36	46.00	-10.64	-3.81	3	Horizontal	360	1.00	39.17	22.52	1.60	27.93
PK	749.74M	39.07	46.00	-6.93	-2.37	3	Horizontal	360	1.00	41.44	24.78	0.95	28.10

2.4-2.4835GHz_Thread_1TX(Port2)

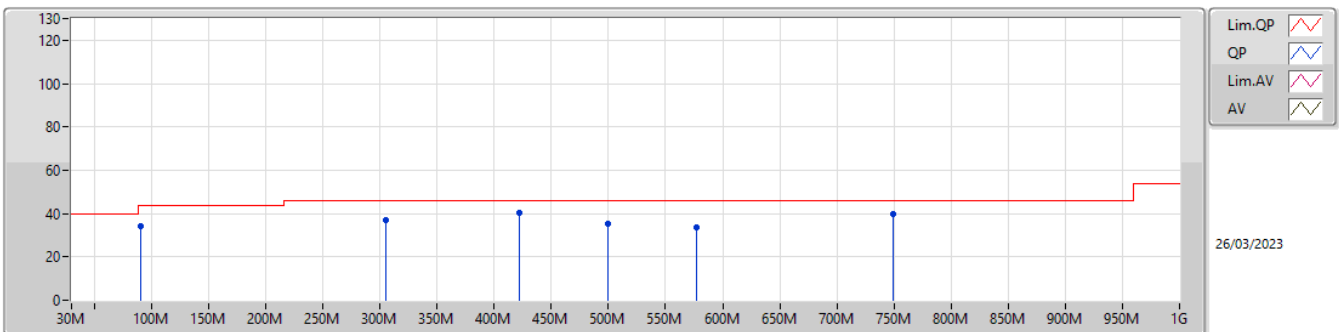
2440MHz_PoE



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	53.28M	33.76	40.00	-6.24	-14.65	3	Vertical	0	1.00	48.41	12.07	0.56	27.28
PK	255.04M	32.35	46.00	-13.65	-7.36	3	Vertical	0	1.00	39.71	18.04	1.15	26.55
PK	392.78M	36.03	46.00	-9.97	-5.44	3	Vertical	0	1.00	41.47	20.42	1.41	27.27
PK	499.48M	34.25	46.00	-11.75	-3.81	3	Vertical	0	1.00	38.06	22.52	1.60	27.93
PK	577.08M	38.89	46.00	-7.11	-2.83	3	Vertical	0	1.00	41.72	23.68	1.71	28.22
PK	714.82M	40.36	46.00	-5.64	-2.34	3	Vertical	0	1.00	42.70	24.23	1.61	28.18

2.4-2.4835GHz_Thread_1TX(Port2)

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	90.14M	34.20	43.50	-9.30	-12.48	3	Horizontal	360	1.00	46.68	14.02	0.71	27.21
PK	305.48M	37.21	46.00	-8.79	-6.94	3	Horizontal	360	1.00	44.15	18.43	1.25	26.62
PK	421.88M	40.36	46.00	-5.64	-4.52	3	Horizontal	360	1.00	44.88	21.55	1.47	27.54
PK	499.48M	35.10	46.00	-10.90	-3.81	3	Horizontal	360	1.00	38.91	22.52	1.60	27.93
PK	577.08M	33.50	46.00	-12.50	-2.83	3	Horizontal	360	1.00	36.33	23.68	1.71	28.22
PK	749.74M	39.71	46.00	-6.29	-2.37	3	Horizontal	360	1.00	42.08	24.78	0.95	28.10



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
Thread_1TX(Port1)	Pass	AV	2.4835G	53.89	54.00	-0.11	3	Horizontal	30	1.10
Thread_1TX(Port2)	Pass	AV	2.4835G	53.82	54.00	-0.18	3	Horizontal	176	2.47

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Thread_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	2.3882G	44.53	54.00	-9.47	3	Vertical	174	1.06
2405MHz	Pass	AV	2.405G	109.00	Inf	-Inf	3	Vertical	174	1.06
2405MHz	Pass	PK	2.3898G	57.40	74.00	-16.60	3	Vertical	174	1.06
2405MHz	Pass	PK	2.4044G	112.28	Inf	-Inf	3	Vertical	174	1.06
2405MHz	Pass	AV	2.3664G	44.76	54.00	-9.24	3	Horizontal	65	1.63
2405MHz	Pass	AV	2.405G	110.71	Inf	-Inf	3	Horizontal	65	1.63
2405MHz	Pass	PK	2.379G	56.76	74.00	-17.24	3	Horizontal	65	1.63
2405MHz	Pass	PK	2.4056G	114.07	Inf	-Inf	3	Horizontal	65	1.63
2405MHz	Pass	AV	4.80904G	34.82	54.00	-19.18	3	Vertical	212	1.74
2405MHz	Pass	PK	4.80868G	45.30	74.00	-28.70	3	Vertical	212	1.74
2405MHz	Pass	AV	4.80892G	32.98	54.00	-21.02	3	Horizontal	290	2.63
2405MHz	Pass	PK	4.80907G	45.21	74.00	-28.79	3	Horizontal	290	2.63
2440MHz	Pass	AV	2.3872G	44.15	54.00	-9.85	3	Vertical	190	1.15
2440MHz	Pass	AV	2.44G	107.62	Inf	-Inf	3	Vertical	190	1.15
2440MHz	Pass	AV	2.4996G	45.07	54.00	-8.93	3	Vertical	190	1.15
2440MHz	Pass	PK	2.3712G	56.79	74.00	-17.21	3	Vertical	190	1.15
2440MHz	Pass	PK	2.4396G	110.98	Inf	-Inf	3	Vertical	190	1.15
2440MHz	Pass	PK	2.49G	57.56	74.00	-16.44	3	Vertical	190	1.15
2440MHz	Pass	AV	2.386G	44.39	54.00	-9.61	3	Horizontal	76	2.15
2440MHz	Pass	AV	2.44G	109.40	Inf	-Inf	3	Horizontal	76	2.15
2440MHz	Pass	AV	2.4908G	45.08	54.00	-8.92	3	Horizontal	76	2.15
2440MHz	Pass	PK	2.3628G	56.69	74.00	-17.31	3	Horizontal	76	2.15
2440MHz	Pass	PK	2.4396G	113.25	Inf	-Inf	3	Horizontal	76	2.15
2440MHz	Pass	PK	2.486G	56.55	74.00	-17.45	3	Horizontal	76	2.15
2440MHz	Pass	AV	4.8811G	35.61	54.00	-18.39	3	Vertical	315	1.36
2440MHz	Pass	AV	7.32158G	35.60	54.00	-18.40	3	Vertical	88	2.99
2440MHz	Pass	PK	4.87897G	45.32	74.00	-28.68	3	Vertical	315	1.36
2440MHz	Pass	PK	7.32152G	48.17	74.00	-25.83	3	Vertical	88	2.99
2440MHz	Pass	AV	4.88097G	31.48	54.00	-22.52	3	Horizontal	175	2.73
2440MHz	Pass	AV	7.32155G	35.57	54.00	-18.43	3	Horizontal	43	2.17
2440MHz	Pass	PK	4.87913G	43.31	74.00	-30.69	3	Horizontal	175	2.73
2440MHz	Pass	PK	7.31994G	48.33	74.00	-25.67	3	Horizontal	43	2.17
2475MHz	Pass	AV	2.475G	108.06	Inf	-Inf	3	Vertical	147	1.11
2475MHz	Pass	AV	2.4836G	46.55	54.00	-7.45	3	Vertical	147	1.11
2475MHz	Pass	PK	2.4756G	111.44	Inf	-Inf	3	Vertical	147	1.11
2475MHz	Pass	PK	2.484G	57.62	74.00	-16.38	3	Vertical	147	1.11
2475MHz	Pass	AV	2.475G	108.06	Inf	-Inf	3	Horizontal	14	1.86
2475MHz	Pass	AV	2.4835G	46.90	54.00	-7.10	3	Horizontal	14	1.86
2475MHz	Pass	PK	2.4756G	111.42	Inf	-Inf	3	Horizontal	14	1.86
2475MHz	Pass	PK	2.4838G	58.73	74.00	-15.27	3	Horizontal	14	1.86
2475MHz	Pass	AV	4.95107G	35.09	54.00	-18.91	3	Vertical	352	2.06
2475MHz	Pass	AV	7.42676G	36.74	54.00	-17.26	3	Vertical	358	1.85
2475MHz	Pass	PK	4.95106G	46.07	74.00	-27.93	3	Vertical	352	2.06
2475MHz	Pass	PK	7.42698G	48.34	74.00	-25.66	3	Vertical	358	1.85
2475MHz	Pass	AV	4.95097G	31.04	54.00	-22.96	3	Horizontal	177	2.53
2475MHz	Pass	AV	7.42666G	35.76	54.00	-18.24	3	Horizontal	55	2.26
2475MHz	Pass	PK	4.94916G	42.76	74.00	-31.24	3	Horizontal	177	2.53
2475MHz	Pass	PK	7.42318G	47.61	74.00	-26.39	3	Horizontal	55	2.26
2480MHz	Pass	AV	2.48G	103.26	Inf	-Inf	3	Vertical	148	1.12
2480MHz	Pass	AV	2.4835G	52.59	54.00	-1.41	3	Vertical	148	1.12
2480MHz	Pass	PK	2.4796G	106.70	Inf	-Inf	3	Vertical	148	1.12
2480MHz	Pass	PK	2.4835G	64.09	74.00	-9.91	3	Vertical	148	1.12
2480MHz	Pass	AV	2.48G	103.19	Inf	-Inf	3	Horizontal	30	1.10
2480MHz	Pass	AV	2.4835G	53.89	54.00	-0.11	3	Horizontal	30	1.10
2480MHz	Pass	PK	2.4806G	106.78	Inf	-Inf	3	Horizontal	30	1.10
2480MHz	Pass	PK	2.4835G	66.65	74.00	-7.35	3	Horizontal	30	1.10
2480MHz	Pass	AV	4.96102G	33.55	54.00	-20.45	3	Vertical	307	2.16
2480MHz	Pass	AV	7.43845G	35.82	54.00	-18.18	3	Vertical	86	1.30
2480MHz	Pass	PK	4.9602G	44.65	74.00	-29.35	3	Vertical	307	2.16
2480MHz	Pass	PK	7.4403G	48.16	74.00	-25.84	3	Vertical	86	1.30

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2480MHz	Pass	AV	4.95862G	30.62	54.00	-23.38	3	Horizontal	241	2.56
2480MHz	Pass	AV	7.43867G	35.44	54.00	-18.56	3	Horizontal	40	1.63
2480MHz	Pass	PK	4.95841G	43.94	74.00	-30.06	3	Horizontal	241	2.56
2480MHz	Pass	PK	7.44176G	47.43	74.00	-26.57	3	Horizontal	40	1.63
Thread_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	2.3666G	44.94	54.00	-9.06	3	Vertical	223	1.86
2405MHz	Pass	AV	2.405G	108.58	Inf	-Inf	3	Vertical	223	1.86
2405MHz	Pass	PK	2.3666G	57.23	74.00	-16.77	3	Vertical	223	1.86
2405MHz	Pass	PK	2.4044G	112.13	Inf	-Inf	3	Vertical	223	1.86
2405MHz	Pass	AV	2.3666G	44.76	54.00	-9.24	3	Horizontal	339	2.81
2405MHz	Pass	AV	2.405G	111.13	Inf	-Inf	3	Horizontal	339	2.81
2405MHz	Pass	PK	2.3814G	56.59	74.00	-17.41	3	Horizontal	339	2.81
2405MHz	Pass	PK	2.4044G	114.59	Inf	-Inf	3	Horizontal	339	2.81
2405MHz	Pass	AV	4.81092G	33.00	54.00	-21.00	3	Vertical	214	2.80
2405MHz	Pass	PK	4.80902G	43.56	74.00	-30.44	3	Vertical	214	2.80
2405MHz	Pass	AV	4.81108G	31.59	54.00	-22.41	3	Horizontal	26	1.77
2405MHz	Pass	PK	4.81133G	42.47	74.00	-31.53	3	Horizontal	26	1.77
2440MHz	Pass	AV	2.3892G	44.32	54.00	-9.68	3	Vertical	215	1.98
2440MHz	Pass	AV	2.44G	107.85	Inf	-Inf	3	Vertical	215	1.98
2440MHz	Pass	AV	2.4972G	45.15	54.00	-8.85	3	Vertical	215	1.98
2440MHz	Pass	PK	2.3696G	56.26	74.00	-17.74	3	Vertical	215	1.98
2440MHz	Pass	PK	2.4396G	111.29	Inf	-Inf	3	Vertical	215	1.98
2440MHz	Pass	PK	2.4884G	57.05	74.00	-16.95	3	Vertical	215	1.98
2440MHz	Pass	AV	2.38G	44.37	54.00	-9.63	3	Horizontal	337	1.72
2440MHz	Pass	AV	2.44G	111.22	Inf	-Inf	3	Horizontal	337	1.72
2440MHz	Pass	AV	2.4924G	44.98	54.00	-9.02	3	Horizontal	337	1.72
2440MHz	Pass	PK	2.3552G	56.39	74.00	-17.61	3	Horizontal	337	1.72
2440MHz	Pass	PK	2.4404G	114.94	Inf	-Inf	3	Horizontal	337	1.72
2440MHz	Pass	PK	2.49G	56.74	74.00	-17.26	3	Horizontal	337	1.72
2440MHz	Pass	AV	4.88108G	32.37	54.00	-21.63	3	Vertical	254	2.02
2440MHz	Pass	AV	7.31871G	36.22	54.00	-17.78	3	Vertical	277	2.14
2440MHz	Pass	PK	4.88137G	44.29	74.00	-29.71	3	Vertical	254	2.02
2440MHz	Pass	PK	7.32196G	47.94	74.00	-26.06	3	Vertical	277	2.14
2440MHz	Pass	AV	4.88091G	32.26	54.00	-21.74	3	Horizontal	296	2.68
2440MHz	Pass	AV	7.32014G	35.68	54.00	-18.32	3	Horizontal	82	1.53
2440MHz	Pass	PK	4.8792G	43.35	74.00	-30.65	3	Horizontal	296	2.68
2440MHz	Pass	PK	7.31889G	47.67	74.00	-26.33	3	Horizontal	82	1.53
2475MHz	Pass	AV	2.475G	107.63	Inf	-Inf	3	Vertical	158	2.03
2475MHz	Pass	AV	2.4835G	46.69	54.00	-7.31	3	Vertical	158	2.03
2475MHz	Pass	PK	2.4744G	111.19	Inf	-Inf	3	Vertical	158	2.03
2475MHz	Pass	PK	2.4848G	57.82	74.00	-16.18	3	Vertical	158	2.03
2475MHz	Pass	AV	2.475G	112.15	Inf	-Inf	3	Horizontal	177	2.45
2475MHz	Pass	AV	2.4835G	49.01	54.00	-4.99	3	Horizontal	177	2.45
2475MHz	Pass	PK	2.4744G	115.47	Inf	-Inf	3	Horizontal	177	2.45
2475MHz	Pass	PK	2.4838G	60.75	74.00	-13.25	3	Horizontal	177	2.45
2475MHz	Pass	AV	4.95096G	32.70	54.00	-21.30	3	Vertical	120	2.70
2475MHz	Pass	AV	7.42666G	36.49	54.00	-17.51	3	Vertical	96	2.72
2475MHz	Pass	PK	4.95121G	43.93	74.00	-30.07	3	Vertical	120	2.70
2475MHz	Pass	PK	7.42351G	49.30	74.00	-24.70	3	Vertical	96	2.72
2475MHz	Pass	AV	4.95119G	32.26	54.00	-21.74	3	Horizontal	229	2.82
2475MHz	Pass	AV	7.42672G	36.32	54.00	-17.68	3	Horizontal	171	1.07
2475MHz	Pass	PK	4.94872G	43.59	74.00	-30.41	3	Horizontal	229	2.82
2475MHz	Pass	PK	7.42494G	47.65	74.00	-26.35	3	Horizontal	171	1.07
2480MHz	Pass	AV	2.48G	98.13	Inf	-Inf	3	Vertical	220	1.78
2480MHz	Pass	AV	2.4835G	49.08	54.00	-4.92	3	Vertical	220	1.78
2480MHz	Pass	PK	2.4794G	101.61	Inf	-Inf	3	Vertical	220	1.78
2480MHz	Pass	PK	2.4835G	60.67	74.00	-13.33	3	Vertical	220	1.78
2480MHz	Pass	AV	2.48G	104.07	Inf	-Inf	3	Horizontal	176	2.47
2480MHz	Pass	AV	2.4835G	53.82	54.00	-0.18	3	Horizontal	176	2.47
2480MHz	Pass	PK	2.4794G	107.52	Inf	-Inf	3	Horizontal	176	2.47
2480MHz	Pass	PK	2.4835G	64.23	74.00	-9.77	3	Horizontal	176	2.47
2480MHz	Pass	AV	4.96103G	33.03	54.00	-20.97	3	Vertical	0	1.76



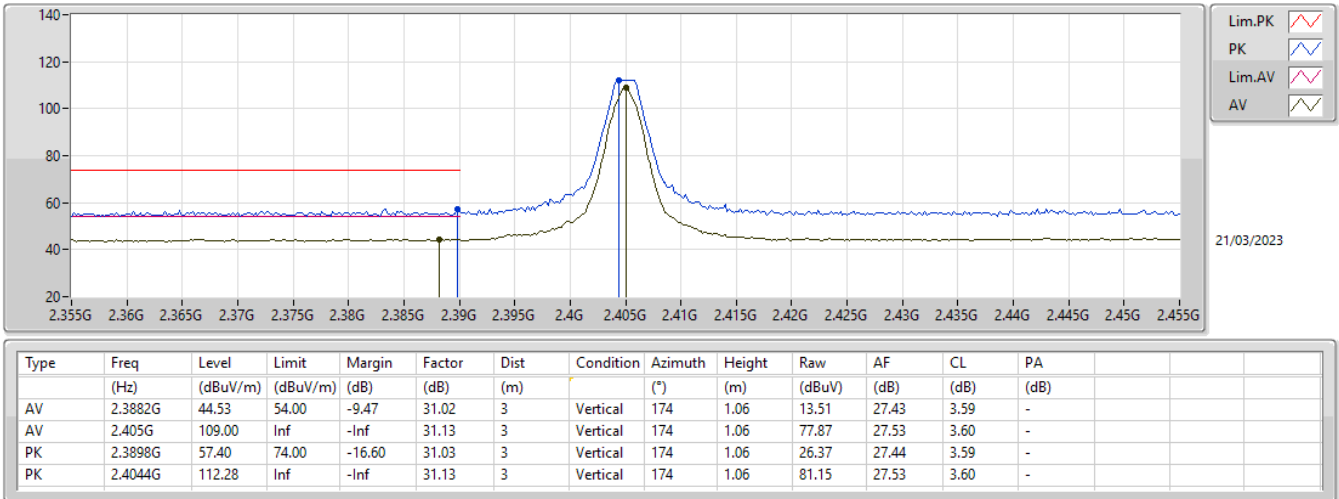
RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2480MHz	Pass	AV	7.43852G	35.54	54.00	-18.46	3	Vertical	52	1.64
2480MHz	Pass	PK	4.95892G	44.85	74.00	-29.15	3	Vertical	0	1.76
2480MHz	Pass	PK	7.44199G	47.37	74.00	-26.63	3	Vertical	52	1.64
2480MHz	Pass	AV	4.96105G	31.65	54.00	-22.35	3	Horizontal	168	1.50
2480MHz	Pass	AV	7.4413G	35.44	54.00	-18.56	3	Horizontal	214	2.68
2480MHz	Pass	PK	4.96095G	44.03	74.00	-29.97	3	Horizontal	168	1.50
2480MHz	Pass	PK	7.4388G	47.80	74.00	-26.20	3	Horizontal	214	2.68

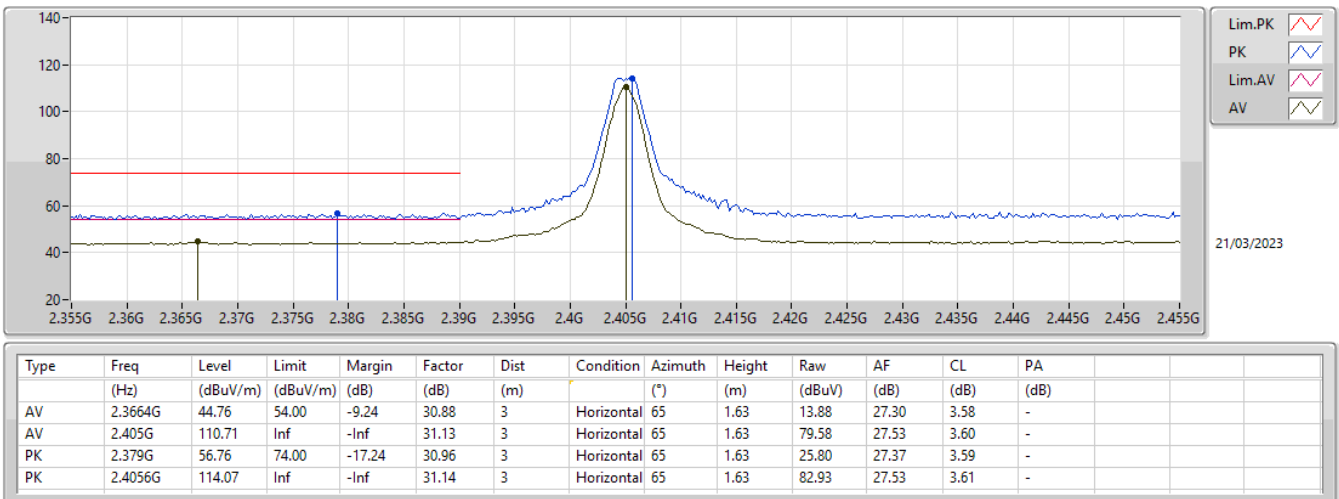
2.4-2.4835GHz_Thread_1TX(Port1)

2405MHz_TX



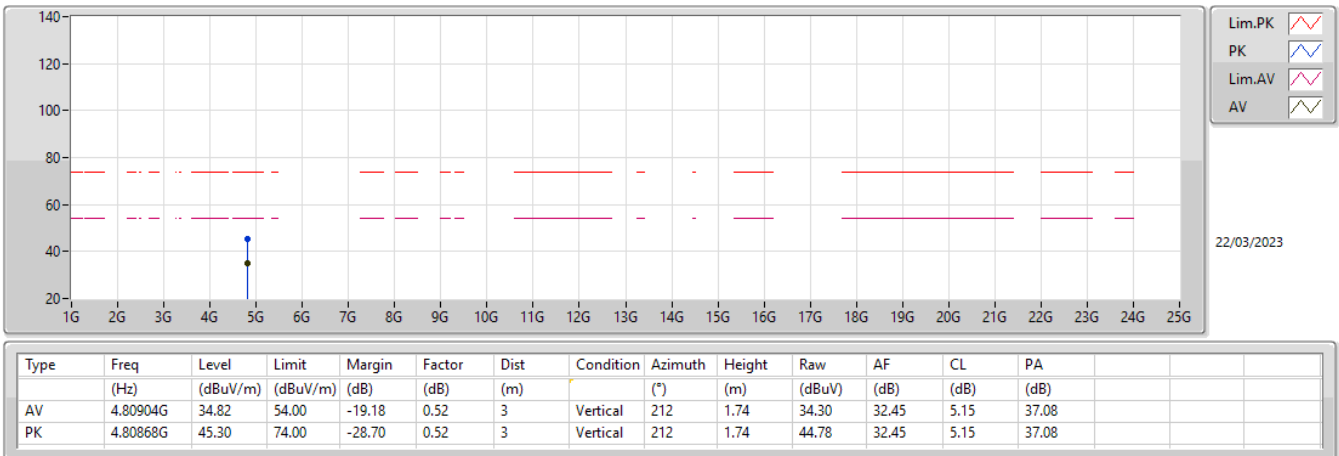
2.4-2.4835GHz_Thread_1TX(Port1)

2405MHz_TX



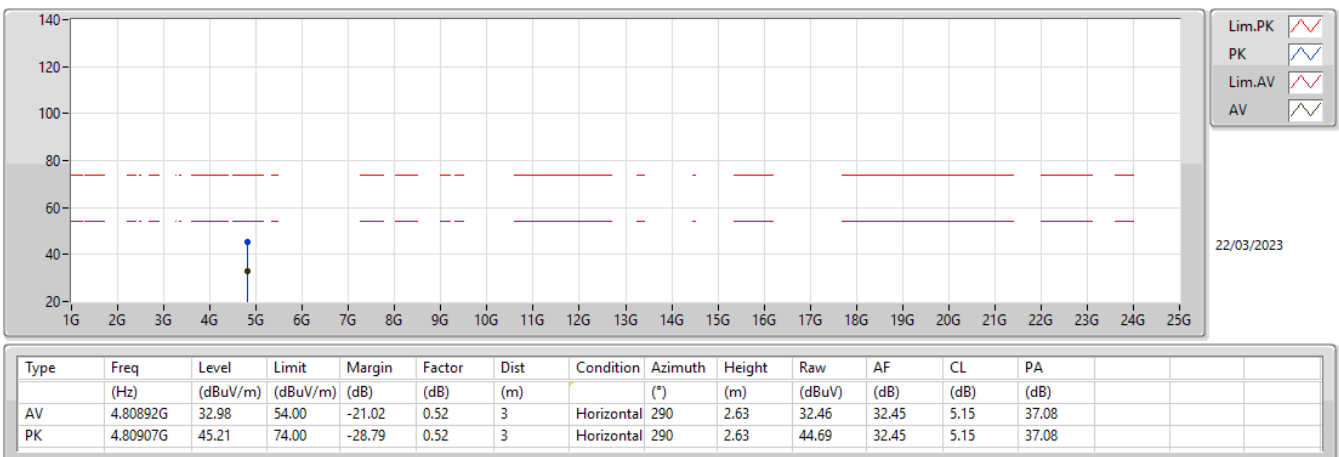
2.4-2.4835GHz_Thread_1TX(Port1)

2405MHz_TX



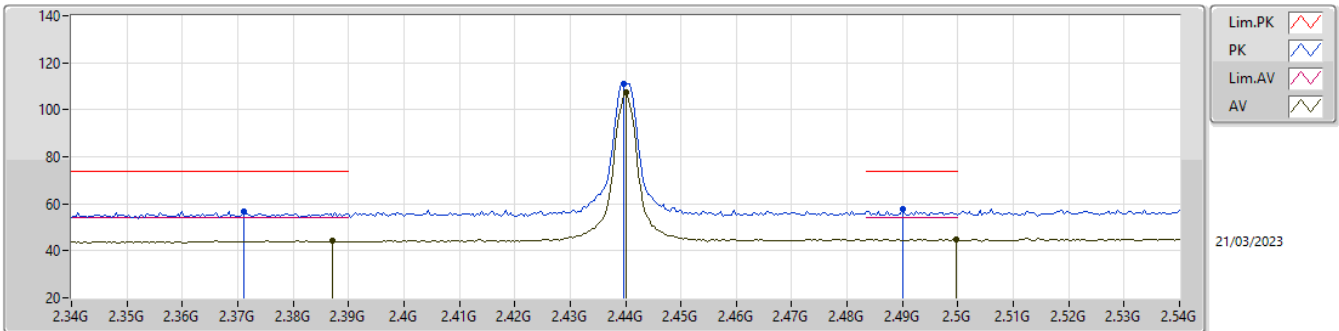
2.4-2.4835GHz_Thread_1TX(Port1)

2405MHz_TX



2.4-2.4835GHz_Thread_1TX(Port1)

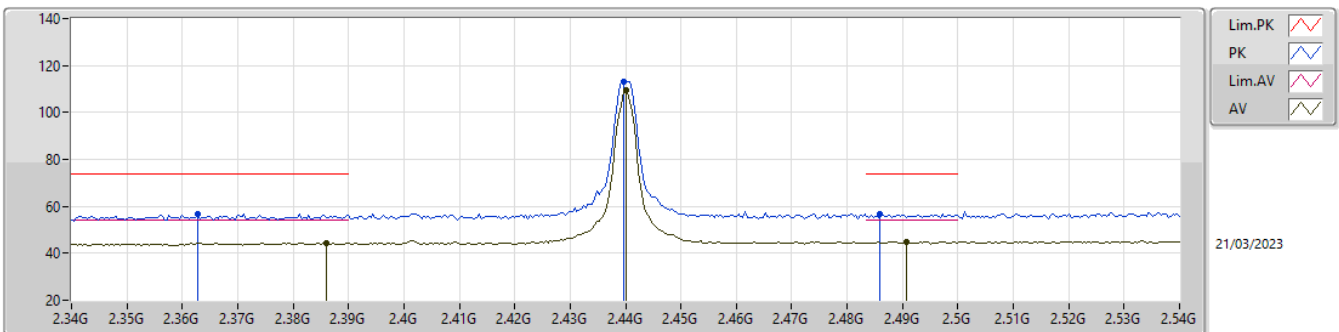
2440MHz_TX



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	2.3872G	44.15	54.00	-9.85	31.01	3	Vertical	190	1.15	13.14	27.42	3.59	-
AV	2.44G	107.62	Inf	-Inf	31.38	3	Vertical	190	1.15	76.24	27.74	3.64	-
AV	2.4996G	45.07	54.00	-8.93	31.59	3	Vertical	190	1.15	13.48	27.90	3.69	-
PK	2.3712G	56.79	74.00	-17.21	30.91	3	Vertical	190	1.15	25.88	27.33	3.58	-
PK	2.4396G	110.98	Inf	-Inf	31.38	3	Vertical	190	1.15	79.60	27.74	3.64	-
PK	2.49G	57.56	74.00	-16.44	31.56	3	Vertical	190	1.15	26.00	27.88	3.68	-

2.4-2.4835GHz_Thread_1TX(Port1)

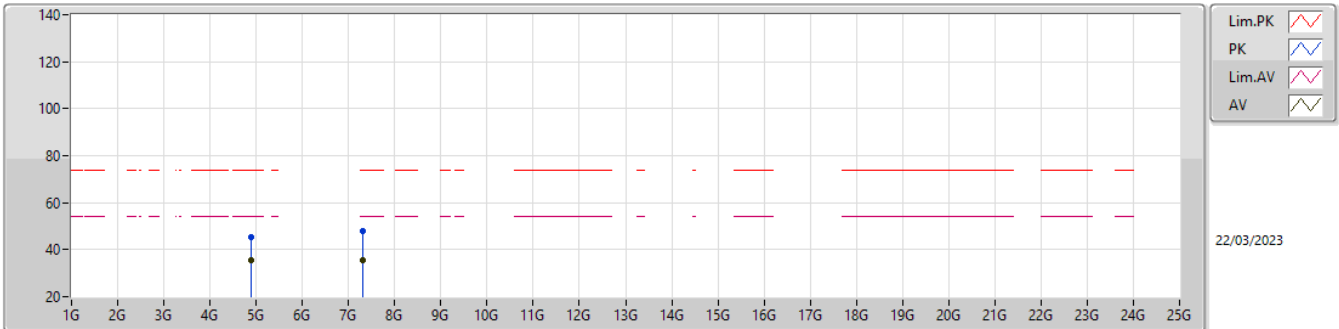
2440MHz_TX



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	2.386G	44.39	54.00	-9.61	31.01	3	Horizontal	76	2.15	13.38	27.42	3.59	-
AV	2.44G	109.40	Inf	-Inf	31.38	3	Horizontal	76	2.15	78.02	27.74	3.64	-
AV	2.4908G	45.08	54.00	-8.92	31.56	3	Horizontal	76	2.15	13.52	27.88	3.68	-
PK	2.3628G	56.69	74.00	-17.31	30.86	3	Horizontal	76	2.15	25.83	27.28	3.58	-
PK	2.4396G	113.25	Inf	-Inf	31.38	3	Horizontal	76	2.15	81.87	27.74	3.64	-
PK	2.486G	56.55	74.00	-17.45	31.55	3	Horizontal	76	2.15	25.00	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port1)

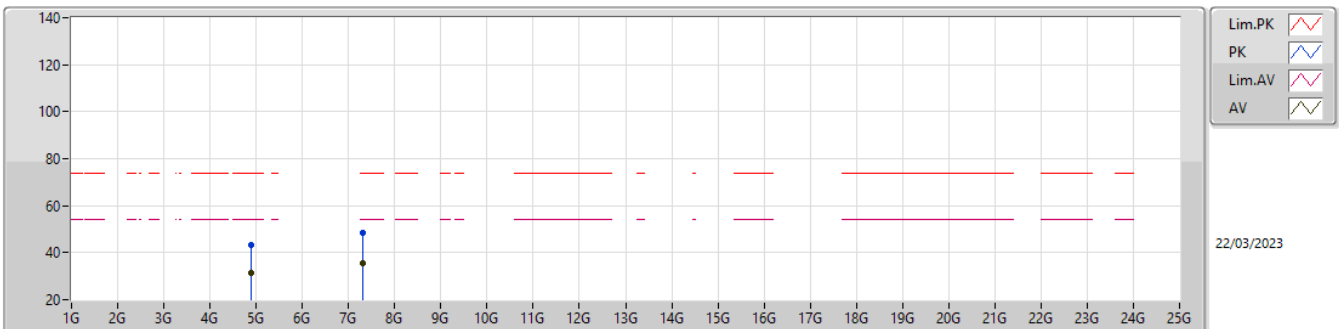
2440MHz_TX



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	4.8811G	35.61	54.00	-18.39	0.91	3	Vertical	315	1.36	34.70	32.82	5.17	37.08
AV	7.32158G	35.60	54.00	-18.40	7.19	3	Vertical	88	2.99	28.41	37.11	6.56	36.48
PK	4.87897G	45.32	74.00	-28.68	0.91	3	Vertical	315	1.36	44.41	32.82	5.17	37.08
PK	7.32152G	48.17	74.00	-25.83	7.19	3	Vertical	88	2.99	40.98	37.11	6.56	36.48

2.4-2.4835GHz_Thread_1TX(Port1)

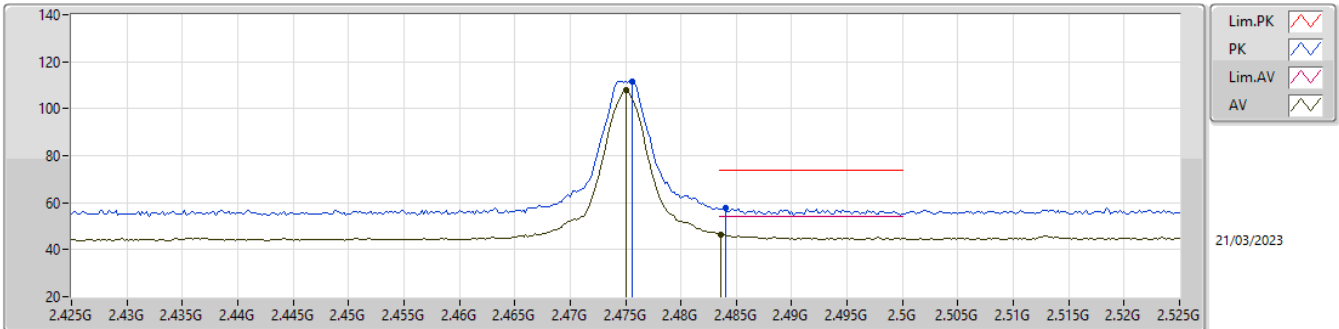
2440MHz_TX



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	4.88097G	31.48	54.00	-22.52	0.91	3	Horizontal	175	2.73	30.57	32.82	5.17	37.08
AV	7.32155G	35.57	54.00	-18.43	7.19	3	Horizontal	43	2.17	28.38	37.11	6.56	36.48
PK	4.87913G	43.31	74.00	-30.69	0.91	3	Horizontal	175	2.73	42.40	32.82	5.17	37.08
PK	7.31994G	48.33	74.00	-25.67	7.20	3	Horizontal	43	2.17	41.13	37.12	6.56	36.48

2.4-2.4835GHz_Thread_1TX(Port1)

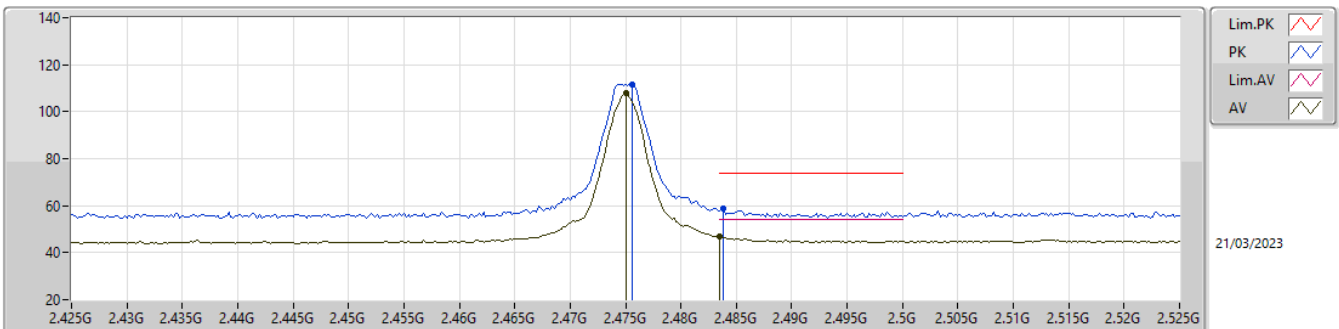
2475MHz_TX



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)
AV	2.475G	108.06	Inf	-Inf	31.52	3	Vertical	147	1.11	76.54	27.85	3.67	-
AV	2.4836G	46.55	54.00	-7.45	31.55	3	Vertical	147	1.11	15.00	27.87	3.68	-
PK	2.4756G	111.44	Inf	-Inf	31.52	3	Vertical	147	1.11	79.92	27.85	3.67	-
PK	2.484G	57.62	74.00	-16.38	31.55	3	Vertical	147	1.11	26.07	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port1)

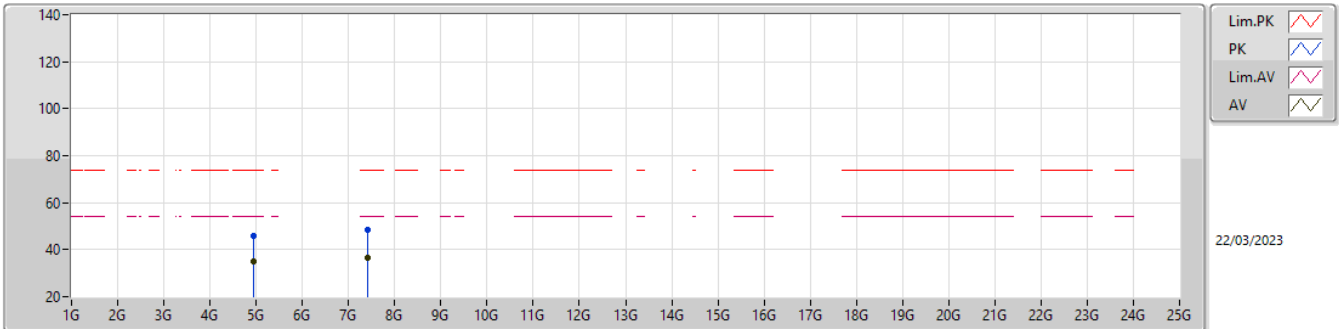
2475MHz_TX



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)
AV	2.475G	108.06	Inf	-Inf	31.52	3	Horizontal	14	1.86	76.54	27.85	3.67	-
AV	2.4835G	46.90	54.00	-7.10	31.55	3	Horizontal	14	1.86	15.35	27.87	3.68	-
PK	2.4756G	111.42	Inf	-Inf	31.52	3	Horizontal	14	1.86	79.90	27.85	3.67	-
PK	2.4838G	58.73	74.00	-15.27	31.55	3	Horizontal	14	1.86	27.18	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port1)

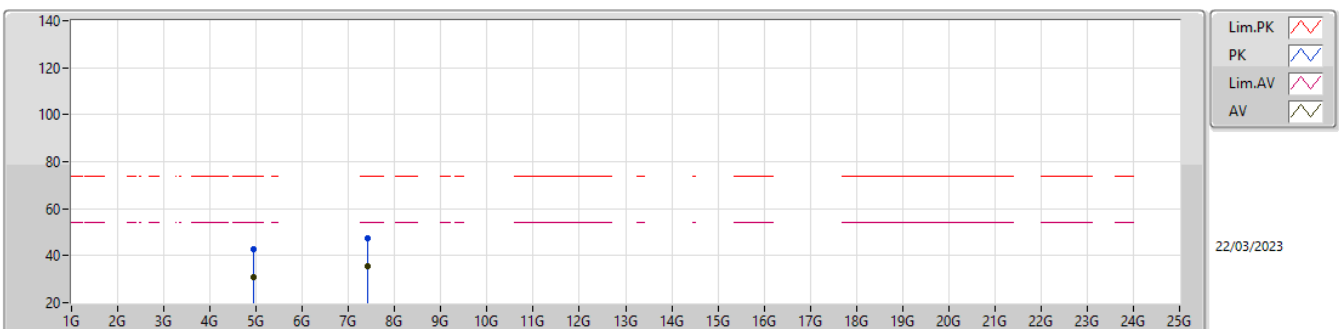
2475MHz_TX



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)
AV	4.95107G	35.09	54.00	-18.91	1.13	3	Vertical	352	2.06	33.96	33.01	5.20	37.08
AV	7.42676G	36.74	54.00	-17.26	6.70	3	Vertical	358	1.85	30.04	36.69	6.37	36.36
PK	4.95106G	46.07	74.00	-27.93	1.13	3	Vertical	352	2.06	44.94	33.01	5.20	37.08
PK	7.42698G	48.34	74.00	-25.66	6.70	3	Vertical	358	1.85	41.64	36.69	6.37	36.36

2.4-2.4835GHz_Thread_1TX(Port1)

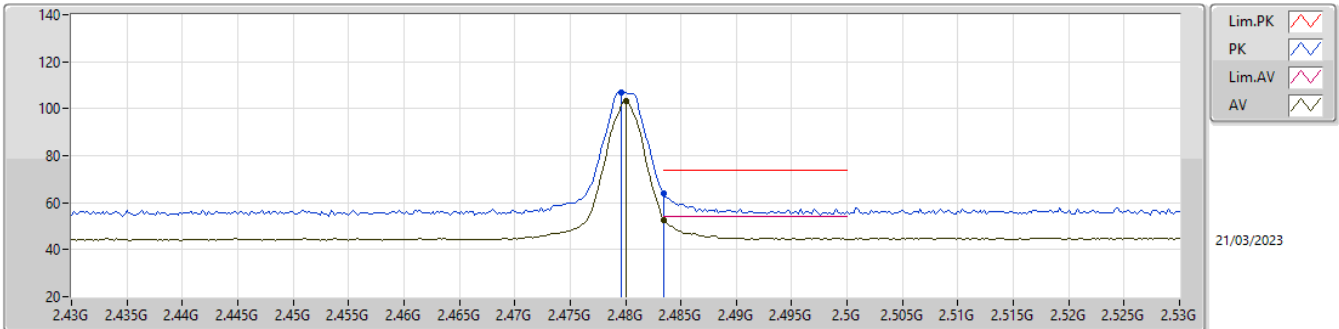
2475MHz_TX



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)
AV	4.95097G	31.04	54.00	-22.96	1.13	3	Horizontal	177	2.53	29.91	33.01	5.20	37.08
AV	7.42666G	35.76	54.00	-18.24	6.70	3	Horizontal	55	2.26	29.06	36.69	6.37	36.36
PK	4.94916G	42.76	74.00	-31.24	1.11	3	Horizontal	177	2.53	41.65	33.00	5.19	37.08
PK	7.42318G	47.61	74.00	-26.39	6.72	3	Horizontal	55	2.26	40.89	36.71	6.37	36.36

2.4-2.4835GHz_Thread_1TX(Port1)

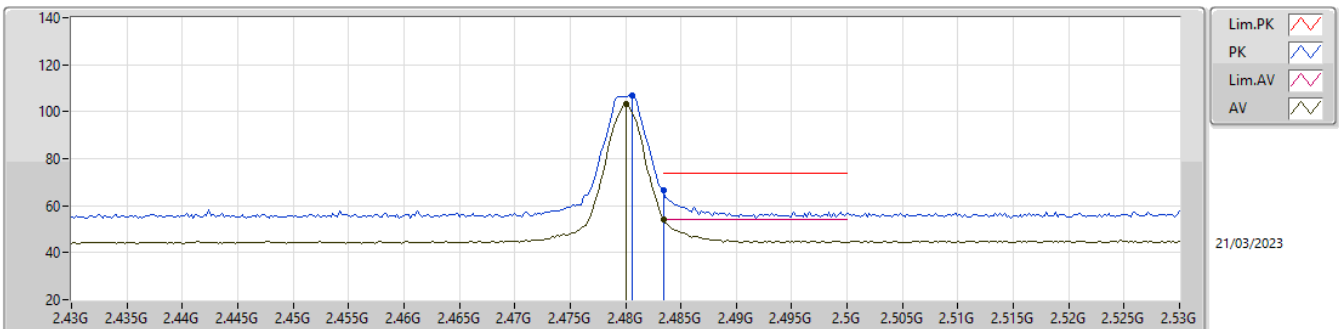
2480MHz_TX



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	2.48G	103.26	Inf	-Inf	31.53	3	Vertical	148	1.12	71.73	27.86	3.67	-
AV	2.4835G	52.59	54.00	-1.41	31.55	3	Vertical	148	1.12	21.04	27.87	3.68	-
PK	2.4796G	106.70	Inf	-Inf	31.53	3	Vertical	148	1.12	75.17	27.86	3.67	-
PK	2.4835G	64.09	74.00	-9.91	31.55	3	Vertical	148	1.12	32.54	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port1)

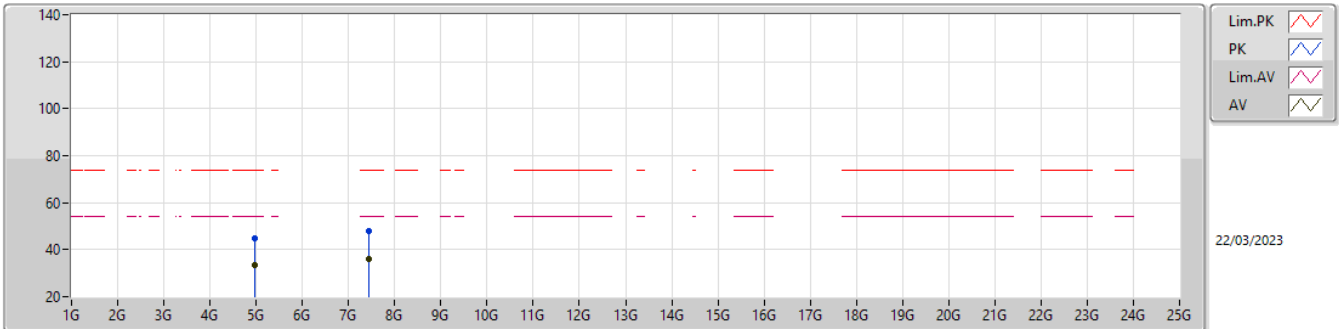
2480MHz_TX



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	2.48G	103.19	Inf	-Inf	31.53	3	Horizontal	30	1.10	71.66	27.86	3.67	-
AV	2.4835G	53.89	54.00	-0.11	31.55	3	Horizontal	30	1.10	22.34	27.87	3.68	-
PK	2.4806G	106.78	Inf	-Inf	31.53	3	Horizontal	30	1.10	75.25	27.86	3.67	-
PK	2.4835G	66.65	74.00	-7.35	31.55	3	Horizontal	30	1.10	35.10	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port1)

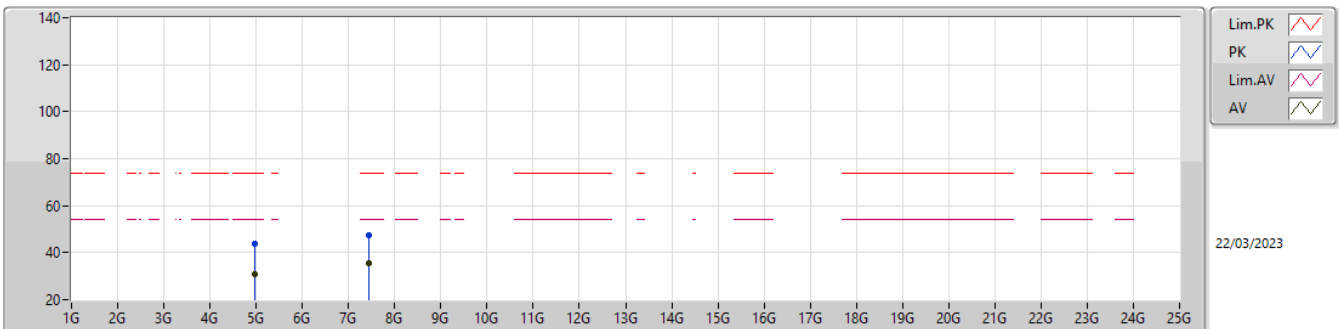
2480MHz_TX



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	4.96102G	33.55	54.00	-20.45	1.21	3	Vertical	307	2.16	32.34	33.09	5.20	37.08
AV	7.43845G	35.82	54.00	-18.18	6.69	3	Vertical	86	1.30	29.13	36.65	6.38	36.34
PK	4.9602G	44.65	74.00	-29.35	1.20	3	Vertical	307	2.16	43.45	33.08	5.20	37.08
PK	7.4403G	48.16	74.00	-25.84	6.68	3	Vertical	86	1.30	41.48	36.64	6.38	36.34

2.4-2.4835GHz_Thread_1TX(Port1)

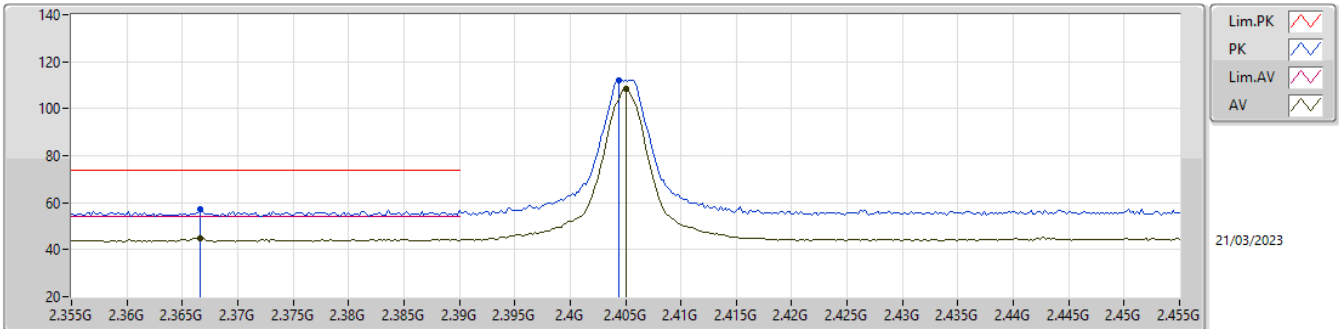
2480MHz_TX



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	4.95862G	30.62	54.00	-23.38	1.19	3	Horizontal	241	2.56	29.43	33.07	5.20	37.08
AV	7.43867G	35.44	54.00	-18.56	6.69	3	Horizontal	40	1.63	28.75	36.65	6.38	36.34
PK	4.95841G	43.94	74.00	-30.06	1.19	3	Horizontal	241	2.56	42.75	33.07	5.20	37.08
PK	7.44176G	47.43	74.00	-26.57	6.67	3	Horizontal	40	1.63	40.76	36.63	6.38	36.34

2.4-2.4835GHz_Thread_1TX(Port2)

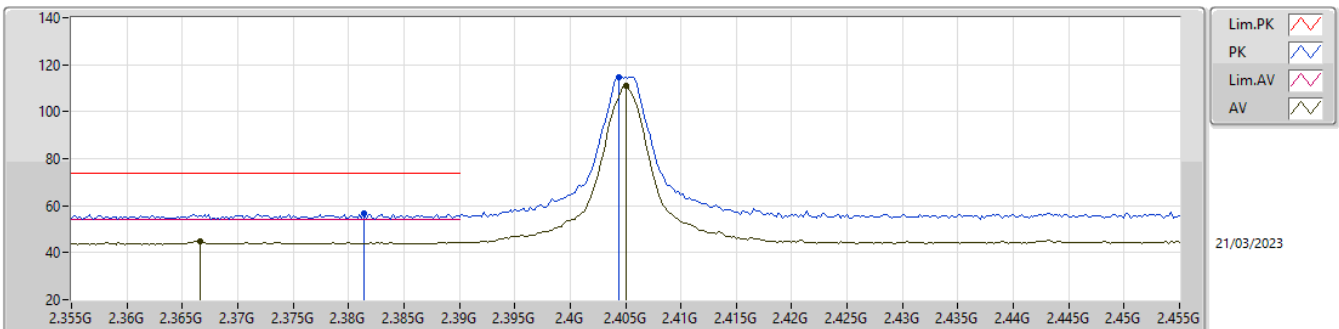
2405MHz_TX



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	2.3666G	44.94	54.00	-9.06	30.88	3	Vertical	223	1.86	14.06	27.30	3.58	-
AV	2.405G	108.58	Inf	-Inf	31.13	3	Vertical	223	1.86	77.45	27.53	3.60	-
PK	2.3666G	57.23	74.00	-16.77	30.88	3	Vertical	223	1.86	26.35	27.30	3.58	-
PK	2.4044G	112.13	Inf	-Inf	31.13	3	Vertical	223	1.86	81.00	27.53	3.60	-

2.4-2.4835GHz_Thread_1TX(Port2)

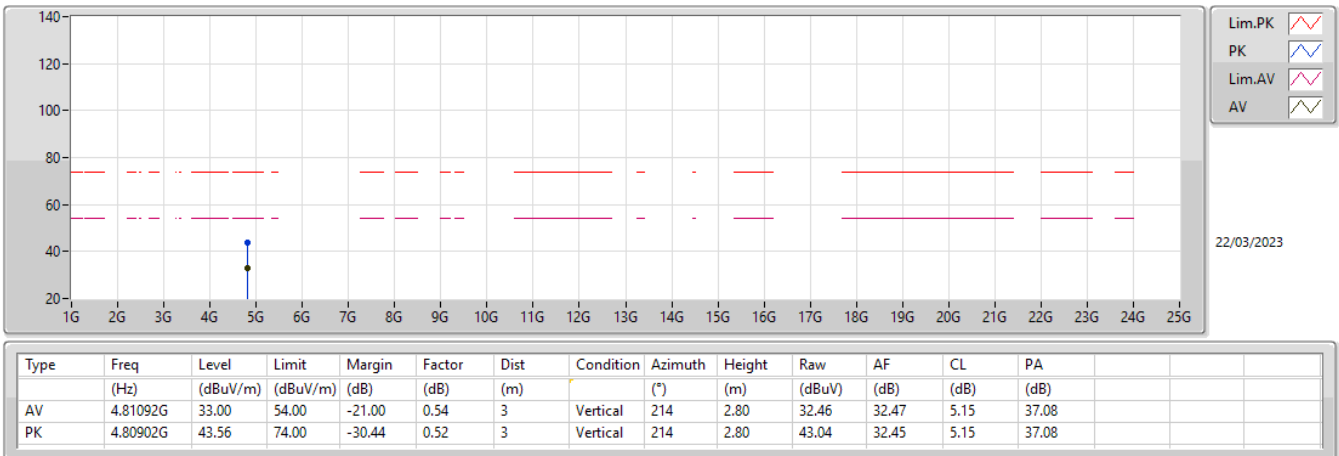
2405MHz_TX



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	2.3666G	44.76	54.00	-9.24	30.88	3	Horizontal	339	2.81	13.88	27.30	3.58	-
AV	2.405G	111.13	Inf	-Inf	31.13	3	Horizontal	339	2.81	80.00	27.53	3.60	-
PK	2.3814G	56.59	74.00	-17.41	30.98	3	Horizontal	339	2.81	25.61	27.39	3.59	-
PK	2.4044G	114.59	Inf	-Inf	31.13	3	Horizontal	339	2.81	83.46	27.53	3.60	-

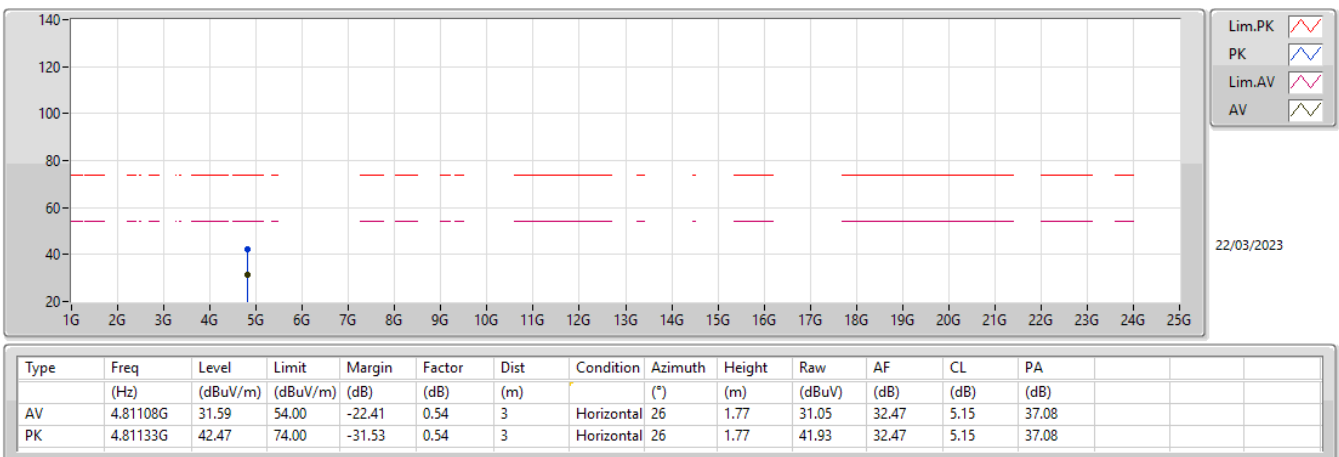
2.4-2.4835GHz_Thread_1TX(Port2)

2405MHz_TX



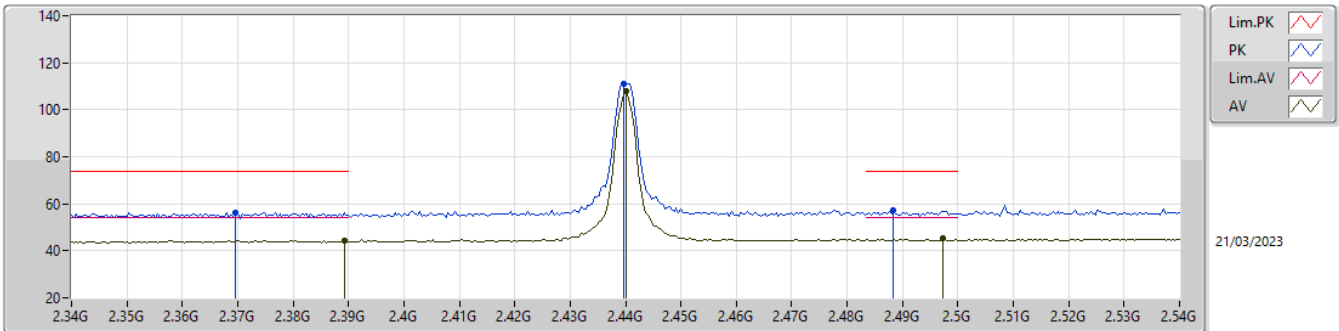
2.4-2.4835GHz_Thread_1TX(Port2)

2405MHz_TX



2.4-2.4835GHz_Thread_1TX(Port2)

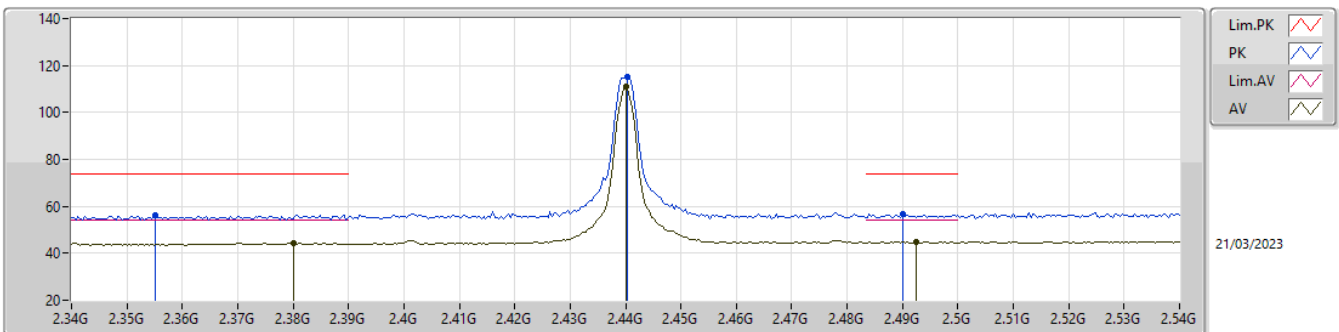
2440MHz_TX



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)				
AV	2.3892G	44.32	54.00	-9.68	31.03	3	Vertical	215	1.98	13.29	27.44	3.59	-				
AV	2.44G	107.85	Inf	-Inf	31.38	3	Vertical	215	1.98	76.47	27.74	3.64	-				
AV	2.4972G	45.15	54.00	-8.85	31.58	3	Vertical	215	1.98	13.57	27.89	3.69	-				
PK	2.3696G	56.26	74.00	-17.74	30.90	3	Vertical	215	1.98	25.36	27.32	3.58	-				
PK	2.4396G	111.29	Inf	-Inf	31.38	3	Vertical	215	1.98	79.91	27.74	3.64	-				
PK	2.4884G	57.05	74.00	-16.95	31.56	3	Vertical	215	1.98	25.49	27.88	3.68	-				

2.4-2.4835GHz_Thread_1TX(Port2)

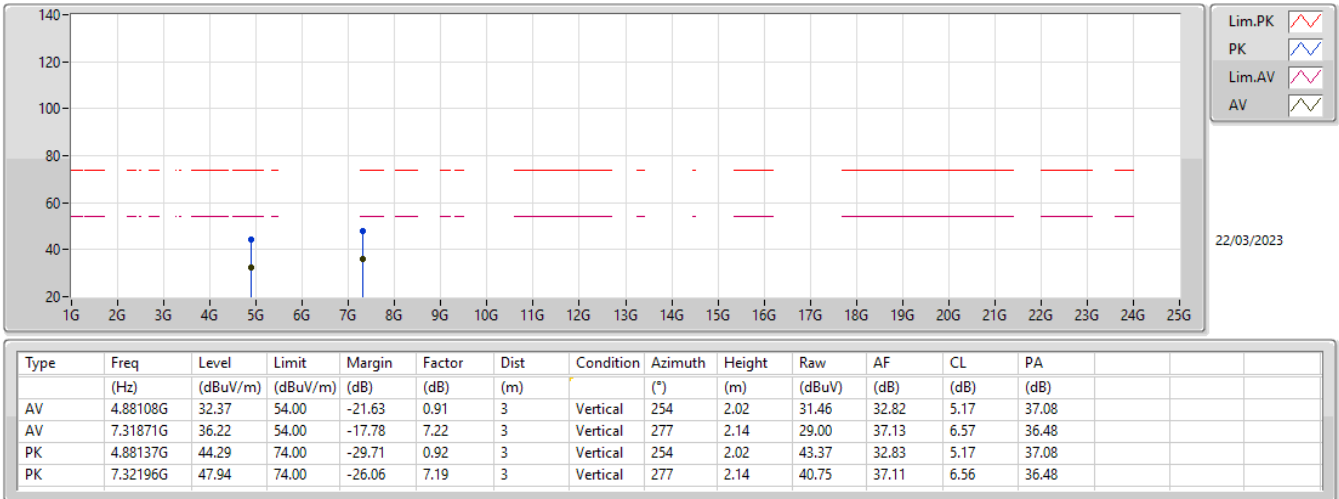
2440MHz_TX



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)				
AV	2.38G	44.37	54.00	-9.63	30.97	3	Horizontal	337	1.72	13.40	27.38	3.59	-				
AV	2.44G	111.22	Inf	-Inf	31.38	3	Horizontal	337	1.72	79.84	27.74	3.64	-				
AV	2.4924G	44.98	54.00	-9.02	31.56	3	Horizontal	337	1.72	13.42	27.88	3.68	-				
PK	2.3552G	56.39	74.00	-17.61	30.80	3	Horizontal	337	1.72	25.59	27.23	3.57	-				
PK	2.4404G	114.94	Inf	-Inf	31.38	3	Horizontal	337	1.72	83.56	27.74	3.64	-				
PK	2.49G	56.74	74.00	-17.26	31.56	3	Horizontal	337	1.72	25.18	27.88	3.68	-				

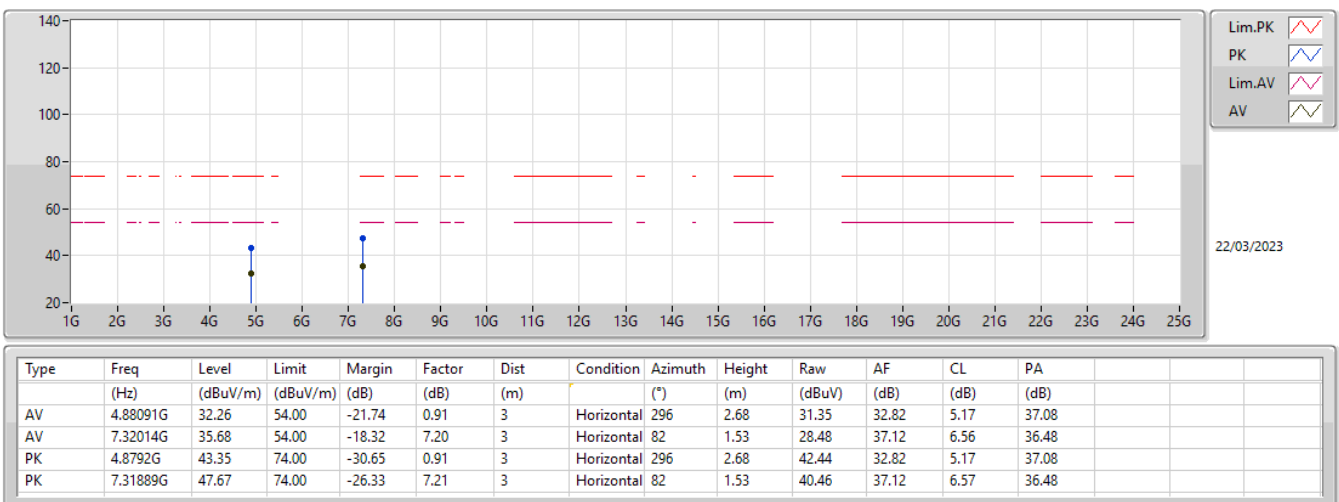
2.4-2.4835GHz_Thread_1TX(Port2)

2440MHz_TX



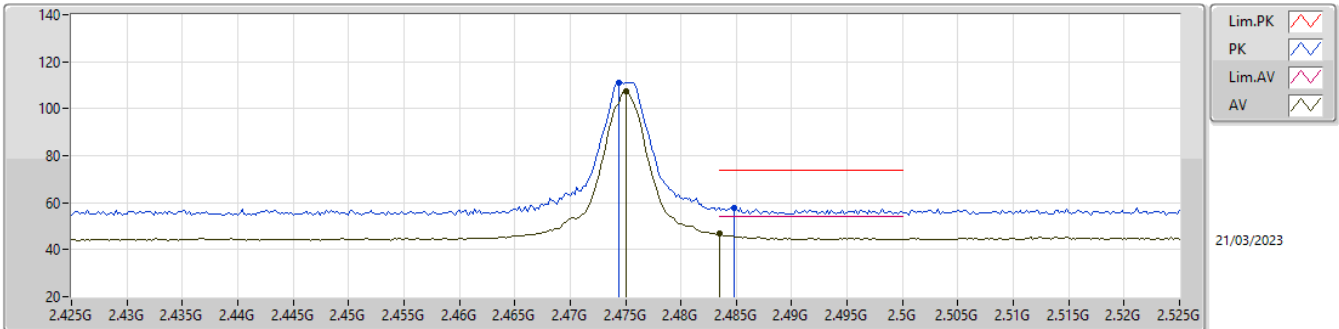
2.4-2.4835GHz_Thread_1TX(Port2)

2440MHz_TX



2.4-2.4835GHz_Thread_1TX(Port2)

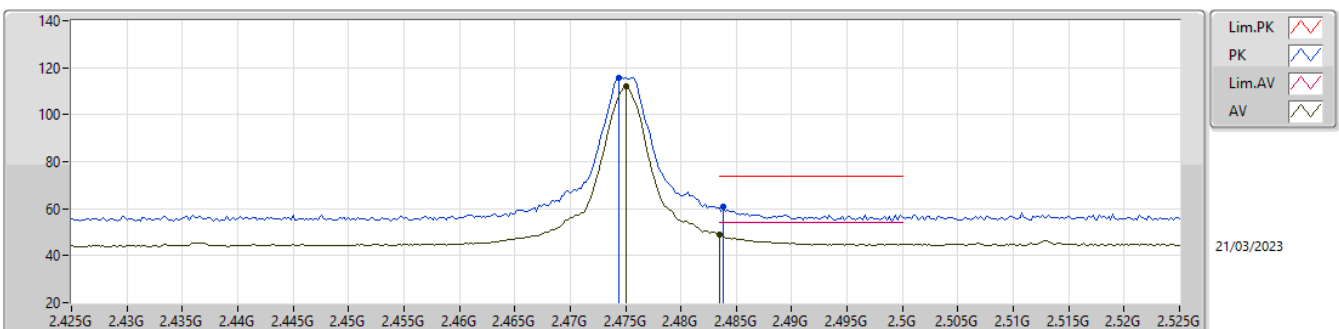
2475MHz_TX



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	2.475G	107.63	Inf	-Inf	31.52	3	Vertical	158	2.03	76.11	27.85	3.67	-
AV	2.4835G	46.69	54.00	-7.31	31.55	3	Vertical	158	2.03	15.14	27.87	3.68	-
PK	2.4744G	111.19	Inf	-Inf	31.52	3	Vertical	158	2.03	79.67	27.85	3.67	-
PK	2.4848G	57.82	74.00	-16.18	31.55	3	Vertical	158	2.03	26.27	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port2)

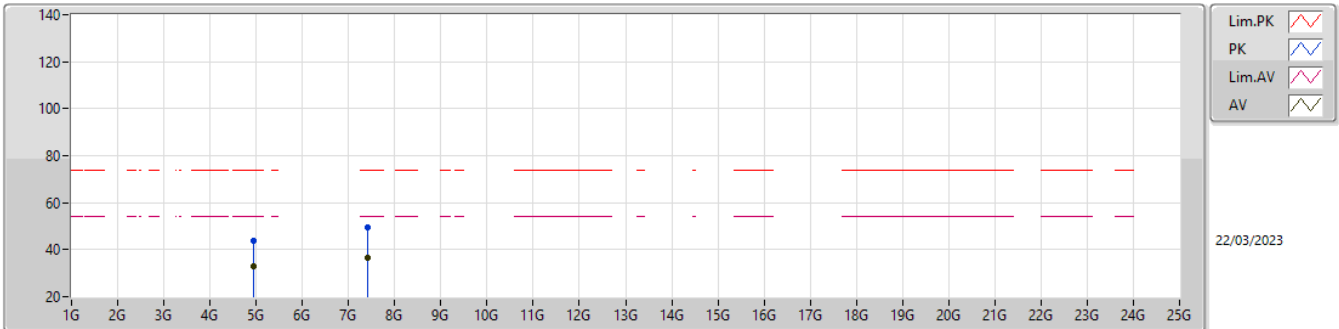
2475MHz_TX



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	2.475G	112.15	Inf	-Inf	31.52	3	Horizontal	177	2.45	80.63	27.85	3.67	-
AV	2.4835G	49.01	54.00	-4.99	31.55	3	Horizontal	177	2.45	17.46	27.87	3.68	-
PK	2.4744G	115.47	Inf	-Inf	31.52	3	Horizontal	177	2.45	83.95	27.85	3.67	-
PK	2.4838G	60.75	74.00	-13.25	31.55	3	Horizontal	177	2.45	29.20	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port2)

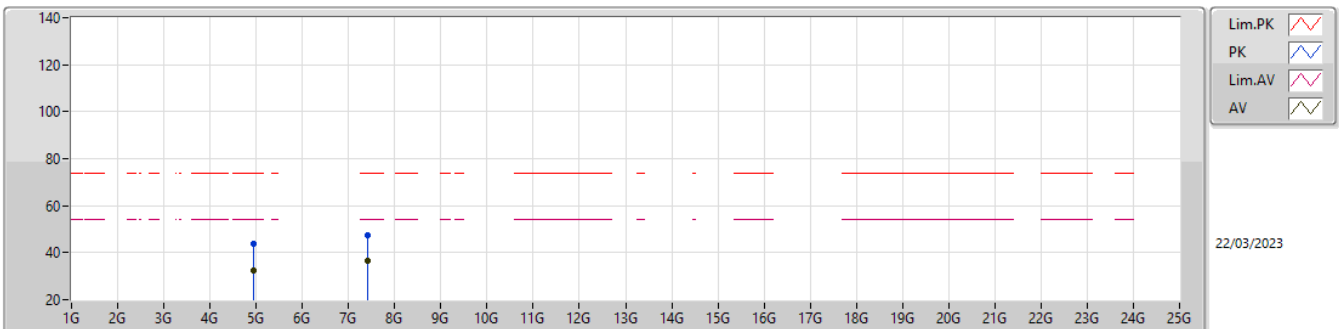
2475MHz_TX



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	4.95096G	32.70	54.00	-21.30	1.13	3	Vertical	120	2.70	31.57	33.01	5.20	37.08
AV	7.42666G	36.49	54.00	-17.51	6.70	3	Vertical	96	2.72	29.79	36.69	6.37	36.36
PK	4.95121G	43.93	74.00	-30.07	1.13	3	Vertical	120	2.70	42.80	33.01	5.20	37.08
PK	7.42351G	49.30	74.00	-24.70	6.72	3	Vertical	96	2.72	42.58	36.71	6.37	36.36

2.4-2.4835GHz_Thread_1TX(Port2)

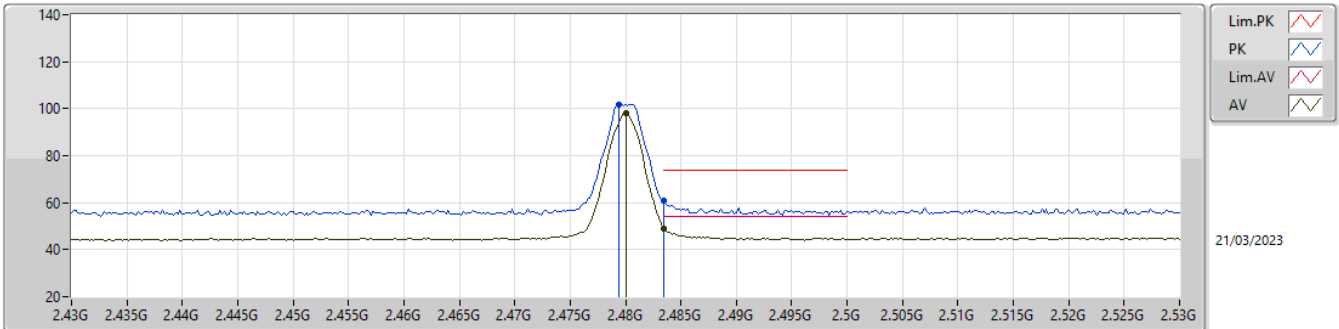
2475MHz_TX



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	4.95119G	32.26	54.00	-21.74	1.13	3	Horizontal	229	2.82	31.13	33.01	5.20	37.08
AV	7.42672G	36.32	54.00	-17.68	6.70	3	Horizontal	171	1.07	29.62	36.69	6.37	36.36
PK	4.94872G	43.59	74.00	-30.41	1.11	3	Horizontal	229	2.82	42.48	33.00	5.19	37.08
PK	7.42494G	47.65	74.00	-26.35	6.71	3	Horizontal	171	1.07	40.94	36.70	6.37	36.36

2.4-2.4835GHz_Thread_1TX(Port2)

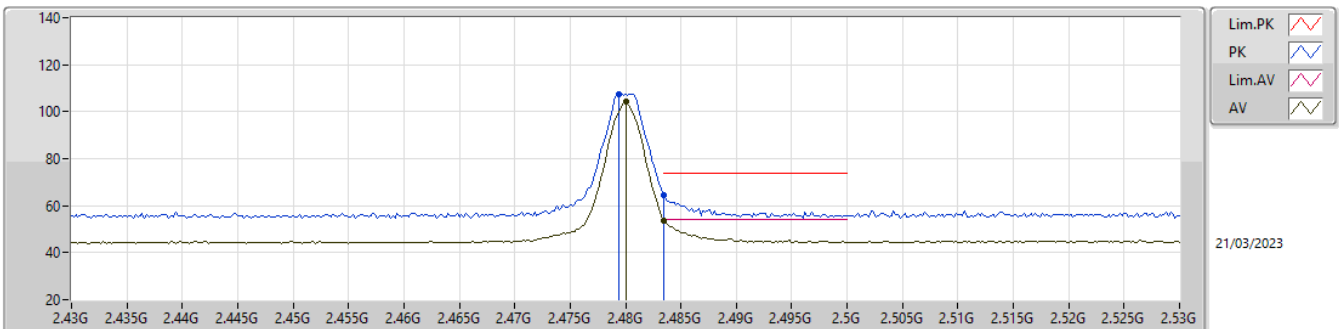
2480MHz_TX



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)
AV	2.48G	98.13	Inf	-Inf	31.53	3	Vertical	220	1.78	66.60	27.86	3.67	-
AV	2.4835G	49.08	54.00	-4.92	31.55	3	Vertical	220	1.78	17.53	27.87	3.68	-
PK	2.4794G	101.61	Inf	-Inf	31.53	3	Vertical	220	1.78	70.08	27.86	3.67	-
PK	2.4835G	60.67	74.00	-13.33	31.55	3	Vertical	220	1.78	29.12	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port2)

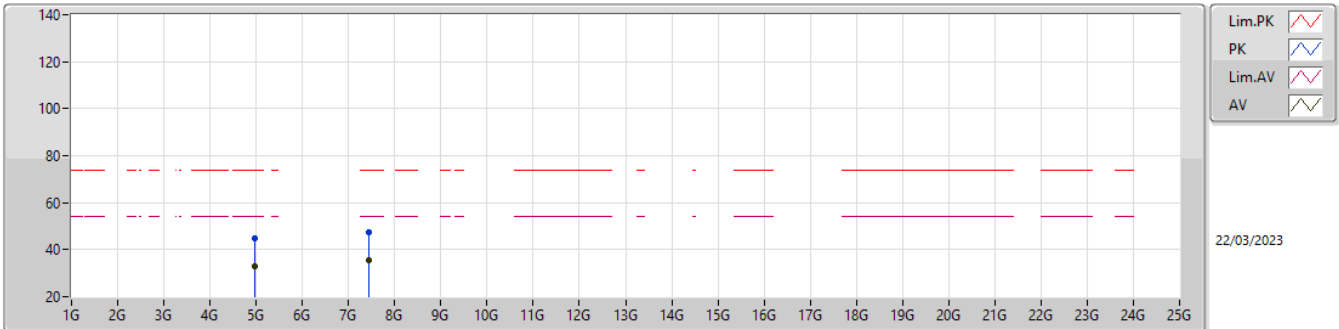
2480MHz_TX



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)
AV	2.48G	104.07	Inf	-Inf	31.53	3	Horizontal	176	2.47	72.54	27.86	3.67	-
AV	2.4835G	53.82	54.00	-0.18	31.55	3	Horizontal	176	2.47	22.27	27.87	3.68	-
PK	2.4794G	107.52	Inf	-Inf	31.53	3	Horizontal	176	2.47	75.99	27.86	3.67	-
PK	2.4835G	64.23	74.00	-9.77	31.55	3	Horizontal	176	2.47	32.68	27.87	3.68	-

2.4-2.4835GHz_Thread_1TX(Port2)

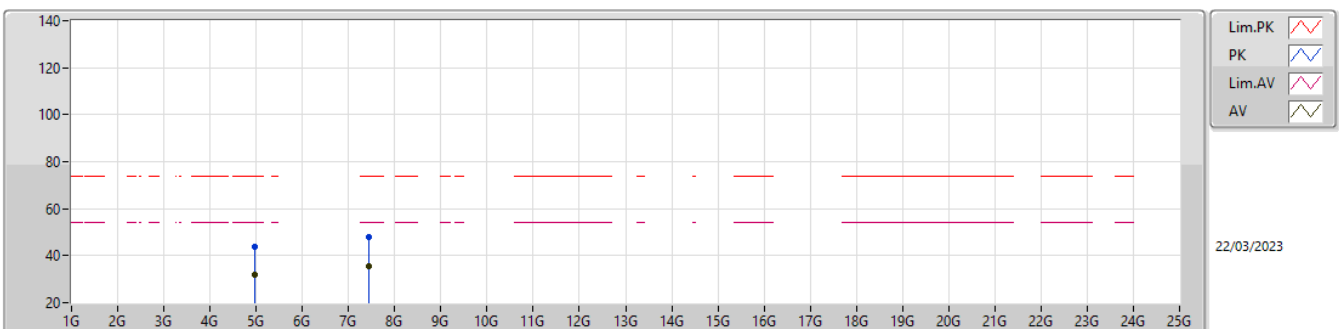
2480MHz_TX



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	4.96103G	33.03	54.00	-20.97	1.21	3	Vertical	0	1.76	31.82	33.09	5.20	37.08
AV	7.43852G	35.54	54.00	-18.46	6.69	3	Vertical	52	1.64	28.85	36.65	6.38	36.34
PK	4.95892G	44.85	74.00	-29.15	1.19	3	Vertical	0	1.76	43.66	33.07	5.20	37.08
PK	7.44199G	47.37	74.00	-26.63	6.67	3	Vertical	52	1.64	40.70	36.63	6.38	36.34

2.4-2.4835GHz_Thread_1TX(Port2)

2480MHz_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	4.96105G	31.65	54.00	-22.35	1.21	3	Horizontal	168	1.50	30.44	33.09	5.20	37.08
AV	7.4413G	35.44	54.00	-18.56	6.67	3	Horizontal	214	2.68	28.77	36.63	6.38	36.34
PK	4.96095G	44.03	74.00	-29.97	1.21	3	Horizontal	168	1.50	42.82	33.09	5.20	37.08
PK	7.4388G	47.80	74.00	-26.20	6.68	3	Horizontal	214	2.68	41.12	36.64	6.38	36.34



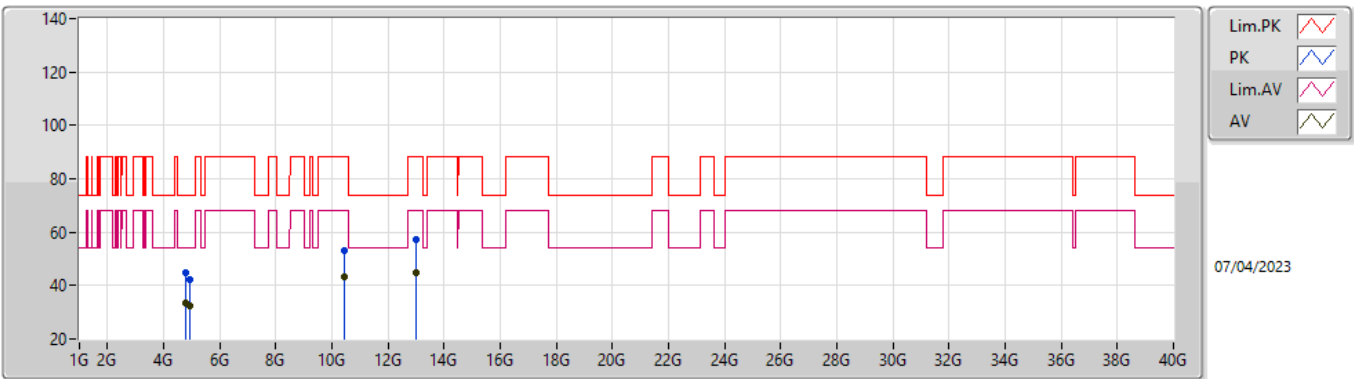
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.80478G	33.89	54.00	-20.11	Horizontal
Mode 2	Pass	AV	4.92455G	46.57	54.00	-7.43	Vertical

Result

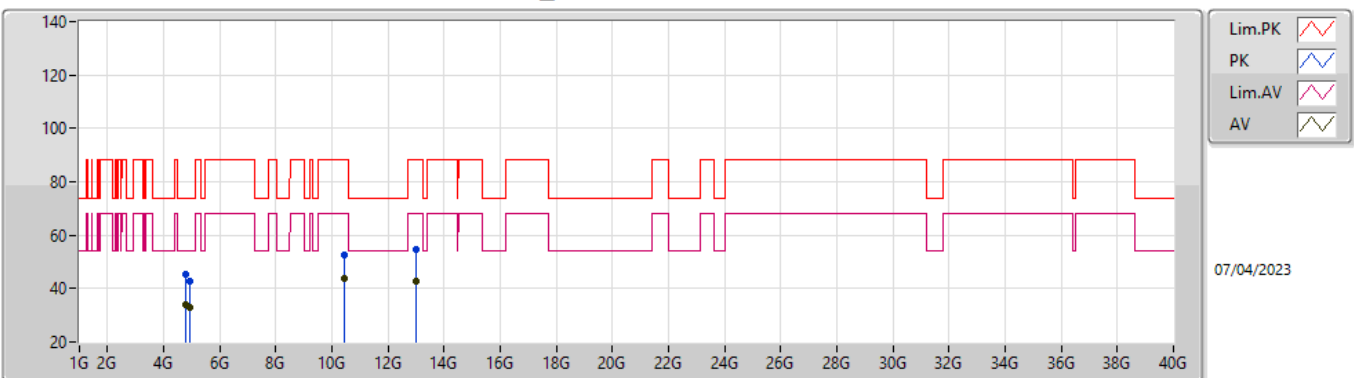
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.79872G	33.69	54.00	-20.31	2.95	3	Vertical	178	1.50	-
Mode 1	Pass	AV	4.92452G	32.60	54.00	-21.40	3.46	3	Vertical	222	1.11	-
Mode 1	Pass	AV	10.46696G	43.45	68.20	-24.75	11.72	3	Vertical	29	2.25	-
Mode 1	Pass	AV	13.01018G	44.99	68.20	-23.21	14.85	3	Vertical	68	1.56	-
Mode 1	Pass	PK	4.81114G	44.86	74.00	-29.14	3.04	3	Vertical	178	1.50	-
Mode 1	Pass	PK	4.92394G	42.30	74.00	-31.70	3.46	3	Vertical	222	1.11	-
Mode 1	Pass	PK	10.46608G	53.27	88.20	-34.93	11.72	3	Vertical	29	2.25	-
Mode 1	Pass	PK	13.01016G	57.16	88.20	-31.04	14.85	3	Vertical	68	1.56	-
Mode 1	Pass	AV	4.80478G	33.89	54.00	-20.11	2.99	3	Horizontal	1	1.43	-
Mode 1	Pass	AV	4.92455G	32.78	54.00	-21.22	3.46	3	Horizontal	229	1.25	-
Mode 1	Pass	AV	10.46665G	43.67	68.20	-24.53	11.72	3	Horizontal	250	1.25	-
Mode 1	Pass	AV	13.01057G	42.57	68.20	-25.63	14.85	3	Horizontal	267	1.04	-
Mode 1	Pass	PK	4.80568G	45.10	74.00	-28.90	2.99	3	Horizontal	1	1.43	-
Mode 1	Pass	PK	4.924036G	42.53	74.00	-31.47	3.46	3	Horizontal	229	1.25	-
Mode 1	Pass	PK	10.46628G	52.45	88.20	-35.75	11.72	3	Horizontal	250	1.25	-
Mode 1	Pass	PK	13.01069G	54.76	88.20	-33.44	14.85	3	Horizontal	267	1.04	-
Mode 2	Pass	AV	4.81072G	34.12	54.00	-19.88	3.03	3	Vertical	112	2.20	-
Mode 2	Pass	AV	4.92455G	46.57	54.00	-7.43	3.46	3	Vertical	300	1.00	-
Mode 2	Pass	AV	10.46072G	58.72	68.20	-9.48	11.70	3	Vertical	120	1.32	-
Mode 2	Pass	AV	13.01065G	46.28	68.20	-21.92	14.85	3	Vertical	260	2.12	-
Mode 2	Pass	PK	4.80978G	43.75	74.00	-30.25	3.03	3	Vertical	112	2.20	-
Mode 2	Pass	PK	4.92463G	62.35	74.00	-11.65	3.46	3	Vertical	300	1.00	-
Mode 2	Pass	PK	10.46042G	58.92	88.20	-29.28	11.70	3	Vertical	120	1.32	-
Mode 2	Pass	PK	13.01038G	54.38	88.20	-33.82	14.85	3	Vertical	260	2.12	-
Mode 2	Pass	AV	4.81076G	32.24	54.00	-21.76	3.03	3	Horizontal	142	3.00	-
Mode 2	Pass	AV	4.92456G	45.32	54.00	-8.68	3.46	3	Horizontal	132	1.20	-
Mode 2	Pass	AV	10.45729G	56.82	68.20	-11.38	11.69	3	Horizontal	92	1.30	-
Mode 2	Pass	AV	13.01046G	48.25	68.20	-19.95	14.85	3	Horizontal	220	2.00	-
Mode 2	Pass	PK	4.81112G	43.24	74.00	-30.76	3.04	3	Horizontal	142	3.00	-
Mode 2	Pass	PK	4.92451G	62.72	74.00	-11.28	3.46	3	Horizontal	132	1.20	-
Mode 2	Pass	PK	10.46125G	58.57	88.20	-29.63	11.70	3	Horizontal	92	1.30	-
Mode 2	Pass	PK	13.01075G	55.69	88.20	-32.51	14.85	3	Horizontal	220	2.00	-

Radiated Emissions above 1GHz_Mode 1



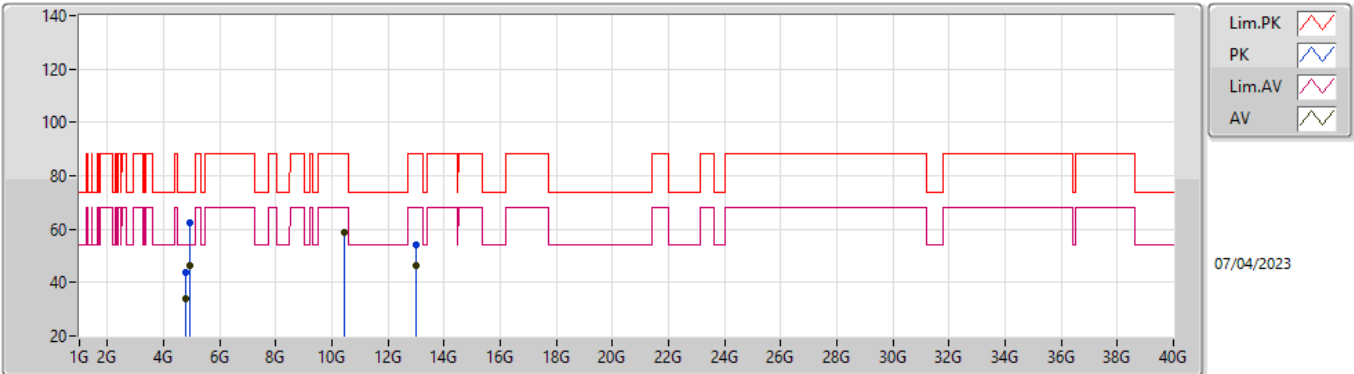
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.79872G	33.69	54.00	-20.31	2.95	3	Vertical	178	1.50	30.74	32.29	5.32	34.66
AV	4.92452G	32.60	54.00	-21.40	3.46	3	Vertical	222	1.11	29.14	32.70	5.41	34.65
AV	10.46696G	43.45	68.20	-24.75	11.72	3	Vertical	29	2.25	31.73	38.47	8.00	34.75
AV	13.01018G	44.99	68.20	-23.21	14.85	3	Vertical	68	1.56	30.14	39.60	8.74	33.49
PK	4.81114G	44.86	74.00	-29.14	3.04	3	Vertical	178	1.50	41.82	32.37	5.33	34.66
PK	4.92394G	42.30	74.00	-31.70	3.46	3	Vertical	222	1.11	38.84	32.70	5.41	34.65
PK	10.46608G	53.27	88.20	-34.93	11.72	3	Vertical	29	2.25	41.55	38.47	8.00	34.75
PK	13.01016G	57.16	88.20	-31.04	14.85	3	Vertical	68	1.56	42.31	39.60	8.74	33.49

Radiated Emissions above 1GHz_Mode 1



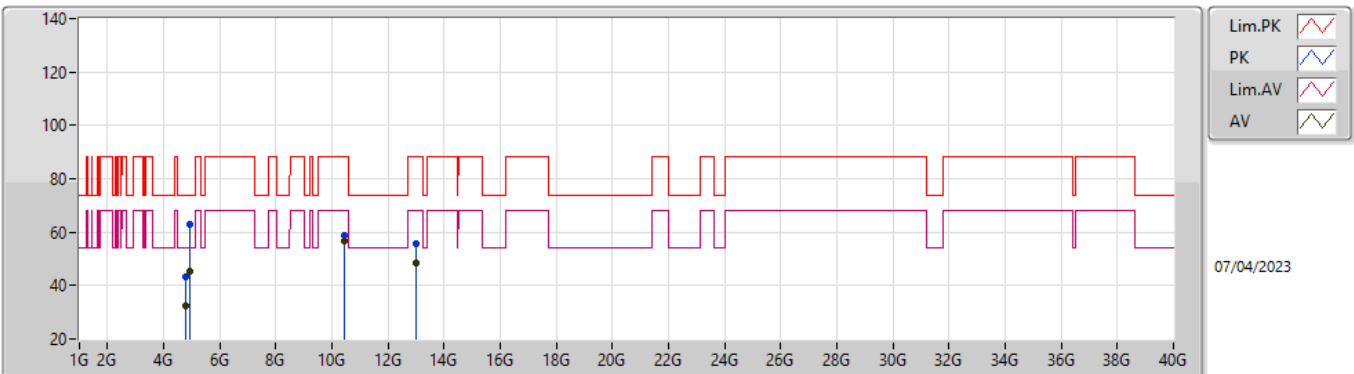
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.80478G	33.89	54.00	-20.11	2.99	3	Horizontal	1	1.43	30.90	32.33	5.32	34.66
AV	4.92455G	32.78	54.00	-21.22	3.46	3	Horizontal	229	1.25	29.32	32.70	5.41	34.65
AV	10.46665G	43.67	68.20	-24.53	11.72	3	Horizontal	250	1.25	31.95	38.47	8.00	34.75
AV	13.01057G	42.57	68.20	-25.63	14.85	3	Horizontal	267	1.04	27.72	39.60	8.74	33.49
PK	4.80568G	45.10	74.00	-28.90	2.99	3	Horizontal	1	1.43	42.11	32.33	5.32	34.66
PK	4.924036G	42.53	74.00	-31.47	3.46	3	Horizontal	229	1.25	39.07	32.70	5.41	34.65
PK	10.46628G	52.45	88.20	-35.75	11.72	3	Horizontal	250	1.25	40.73	38.47	8.00	34.75
PK	13.01069G	54.76	88.20	-33.44	14.85	3	Horizontal	267	1.04	39.91	39.60	8.74	33.49

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/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.81072G	34.12	54.00	-19.88	3.03	3	Vertical	112	2.20	31.09	32.36	5.33	34.66
AV	4.92455G	46.57	54.00	-7.43	3.46	3	Vertical	300	1.00	43.11	32.70	5.41	34.65
AV	10.46072G	58.72	68.20	-9.48	11.70	3	Vertical	120	1.32	47.02	38.46	8.00	34.76
AV	13.01065G	46.28	68.20	-21.92	14.85	3	Vertical	260	2.12	31.43	39.60	8.74	33.49
PK	4.80978G	43.75	74.00	-30.25	3.03	3	Vertical	112	2.20	40.72	32.36	5.33	34.66
PK	4.92463G	62.35	74.00	-11.65	3.46	3	Vertical	300	1.00	58.89	32.70	5.41	34.65
PK	10.46042G	58.92	88.20	-29.28	11.70	3	Vertical	120	1.32	47.22	38.46	8.00	34.76
PK	13.01038G	54.38	88.20	-33.82	14.85	3	Vertical	260	2.12	39.53	39.60	8.74	33.49

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/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.81076G	32.24	54.00	-21.76	3.03	3	Horizontal	142	3.00	29.21	32.36	5.33	34.66
AV	4.92456G	45.32	54.00	-8.68	3.46	3	Horizontal	132	1.20	41.86	32.70	5.41	34.65
AV	10.45729G	56.82	68.20	-11.38	11.69	3	Horizontal	92	1.30	45.13	38.46	7.99	34.76
AV	13.01046G	48.25	68.20	-19.95	14.85	3	Horizontal	220	2.00	33.40	39.60	8.74	33.49
PK	4.81112G	43.24	74.00	-30.76	3.04	3	Horizontal	142	3.00	40.20	32.37	5.33	34.66
PK	4.92451G	62.72	74.00	-11.28	3.46	3	Horizontal	132	1.20	59.26	32.70	5.41	34.65
PK	10.46125G	58.57	88.20	-29.63	11.70	3	Horizontal	92	1.30	46.87	38.46	8.00	34.76
PK	13.01075G	55.69	88.20	-32.51	14.85	3	Horizontal	220	2.00	40.84	39.60	8.74	33.49