RADIO TEST REPORT

FCC ID	:	TLZ-CU5XX
Equipment	:	Wireless MCU with Integrated Tri-radio Wi-Fi 6 + BLE 5.3/802.15.4 LGA module, Wireless MCU with Integrated Wi Fi 6 and Bluetooth Low Energy 5. 3 Module
Brand Name	:	AzureWave
Model Name	:	AW-CU570, AW-CU598
Applicant	:	AzureWave Technologies, Inc. 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Manufacturer	:	AzureWave Technologies, Inc. 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Standard	:	47 CFR FCC Part 15.247

The product was received on Dec. 12, 2023, and testing was started from Dec. 26, 2023 and completed on Jun. 14, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Rex Liao

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

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History of this test report

Report No.	Version	Description	Issued Date
FR3N2709AD	01	Initial issue of report	Jun. 28, 2024

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	-
4.1	15.247(a)	DTS Bandwidth	PASS	-
4.2	15.247(b)	Maximum Conducted Output Power	PASS	-
4.3	15.247(e)	Power Spectral Density	PASS	-
4.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
4.5	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sam Chen
Report Producer: Sophia Shiung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range	Mode	Ch. Frequency (MHz)	Channel Number
2400–2483.5 MHz	Thread	2405-2480	11-26 [16]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	Thread	3	1TX

Note:
- BWch is the nominal channel bandwidth.
- Thread uses a O-QPSK modulation.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ARISTOTLE	RFA-27-C38H1-C198	Dipole	u.FL	Note 1
2	Molex	2128600011	Dipole	u.FL	
3	LYNwave	2570	PCB	N/A	

Note 1:

Ant.	Port				Gain (dBi)			
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	Thread	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	Thread
1	-	1	-	-	3	5	3	3
2	1	-	1	1	Note 2			
3	1	1	1	1	2.2	4.4	2.2	2.2

Note 2: The Ant. 2 has one RF cable (Brand: TE Connectivity / Model Name: Linx Connectivity / Remark: 11.5cm), and its gains are listed below.

Ant.	Gain (dBi)				
		WLAN 2.4GHz	WLAN 5GHz	Bluetooth	Thread
2	Max Peak Gain	5.3	4.5	5.3	5.3
	Cable Loss	0.34	0.34	0.34	0.34
	Net Gain	4.96	4.16	4.96	4.96

Note 3: The above information was declared by manufacturer.

Note 4: **For RF Conducted tests:**

The Ant. 2 in WLAN 2.4GHz / Bluetooth / Thread and the Ant. 1 in WLAN 5GHz have higher gain than others in the same band. Therefore, they were selected to perform the test.

For AC Conduction and Radiated tests:

The EUT has two types of antenna. The antennas with higher gain in each band of each type were selected to test and their data were recorded in this report. Thus, Ant. 1 & Ant. 3 were selected to test WLAN 5GHz, and Ant. 2 & Ant. 3 were selected to test WLAN 2.4GHz / Bluetooth / Thread.

Note 5: **For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For 5GHz function:

For IEEE 802.11a/n/ac/ax (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For Thread function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
Thread_Nss 1	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From host system			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DutApiMimoApApp 2.0.0.2			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The two EUTs are identical except for the difference listed below:

EUT	Equipment Name	Model Name	Thread Function
1	Wireless MCU with Integrated Tri-radio Wi-Fi 6 + BLE 5.3/802.15.4 LGA module	AW-CU570	V
2	Wireless MCU with Integrated Wi Fi 6 and Bluetooth Low Energy 5. 3 Module	AW-CU598	X

Note 1: From the above EUTs, EUT 1 (AW-CU570) was selected as representative EUT for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

- FCC KDB 558074 D01 v05r02
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Mason Chan	21.1~22.8 / 63~67	Dec. 28, 2023~ Mar. 01, 2024
Radiated < 1GHz	03CH01-CB	Paul Hu	22.4-23.5 / 55-58	Feb. 07, 2024~ May 23, 2024
	03CH04-CB		21-22 / 56-59	
Radiated > 1GHz	03CH01-CB	Paul Hu	22.4~23.5 / 55~58	Dec. 26, 2023~ Feb. 29, 2024
	03CH06-CB		21.9~22.8 / 56~58	
AC Conduction	CO01-CB	Tim Chen	20~21 / 63~64	Feb. 22, 2024~ Jun. 14, 2024

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
Thread_3MHz_Nss1_1TX
2405MHz
2440MHz
2475MHz
2480MHz

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	EUT 1 + Ant. 2_Thread
2	EUT 1 + Ant. 2_Bluetooth
3	EUT 1 + Ant. 2_WLAN 2.4GHz
4	EUT 1 + Ant. 1_WLAN 5GHz
5	EUT 1 + Ant. 3_Thread
6	EUT 1 + Ant. 3_Bluetooth
7	EUT 1 + Ant. 3_WLAN 2.4GHz
8	EUT 1 + Ant. 3_WLAN 5GHz
For operating, mode 6 is the worst case and it was recorded in this test report.	

The Worst Case Mode for Following Conformance Tests		
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Maximum Conducted Output Power Emissions in Non-restricted Frequency Bands	
Test Condition	Conducted measurement at transmit chains	
Test Mode	1	EUT 1 + Ant. 2

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
	The EUT was performed at X axis, Y axis and Z axis position in Radiated Emission test > 1GHz, and the worst case was found at Y axis. Thus, the measurement will follow this same test configuration.
1	EUT 1 in Y axis + Ant. 2_WLAN 2.4GHz
2	EUT 1 in Y axis + Ant. 2_Bluetooth
3	EUT 1 in Y axis + Ant. 2_Thread
4	EUT 1 in Y axis + Ant. 1_WLAN 5GHz
5	EUT 1 in Y axis + Ant. 3_WLAN 2.4GHz
6	EUT 1 in Y axis + Ant. 3_Bluetooth
7	EUT 1 in Y axis + Ant. 3_Thread
8	EUT 1 in Y axis + Ant. 3_WLAN 5GHz
For operating, mode 2 is the worst case and it was recorded in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. Thus, the measurement will follow this same test configuration.
1	EUT 1 in Y axis + Ant. 2
2	EUT 1 in Y axis + Ant. 3

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Fixture	AzureWave	2570-i4	N/A
B	NB	DELL	E6430	N/A

For Radiated < 1GHz:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Fixture	AzureWave	2570-i4	N/A
B	DC Power Supply	MOTECH	LPS-305	N/A

For Radiated > 1GHz:

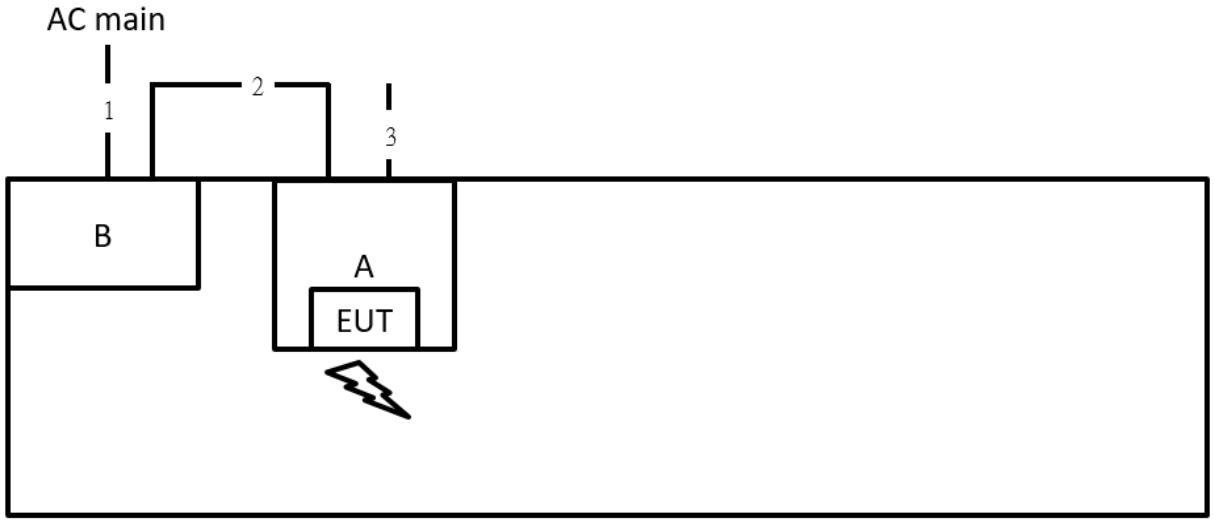
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Fixture	AzureWave	2570-i4	N/A
B	DC Power Supply	MOTECH	LPS-305	N/A
C	NB	DELL	E4300	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	Fixture	AzureWave	2570-i4	N/A

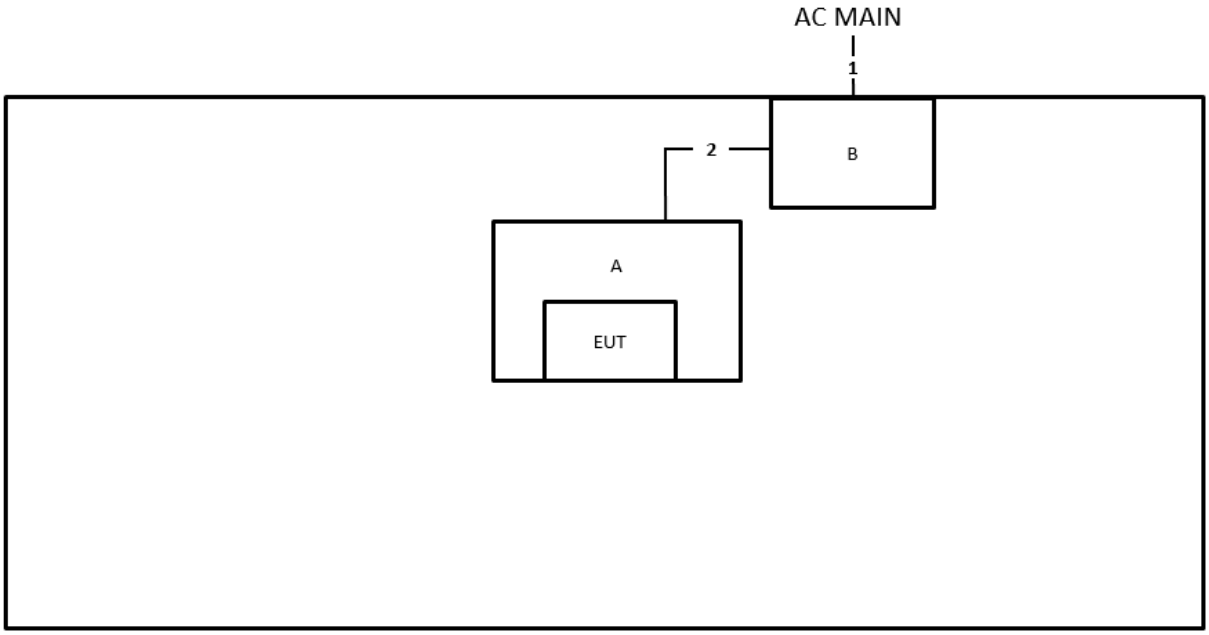
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



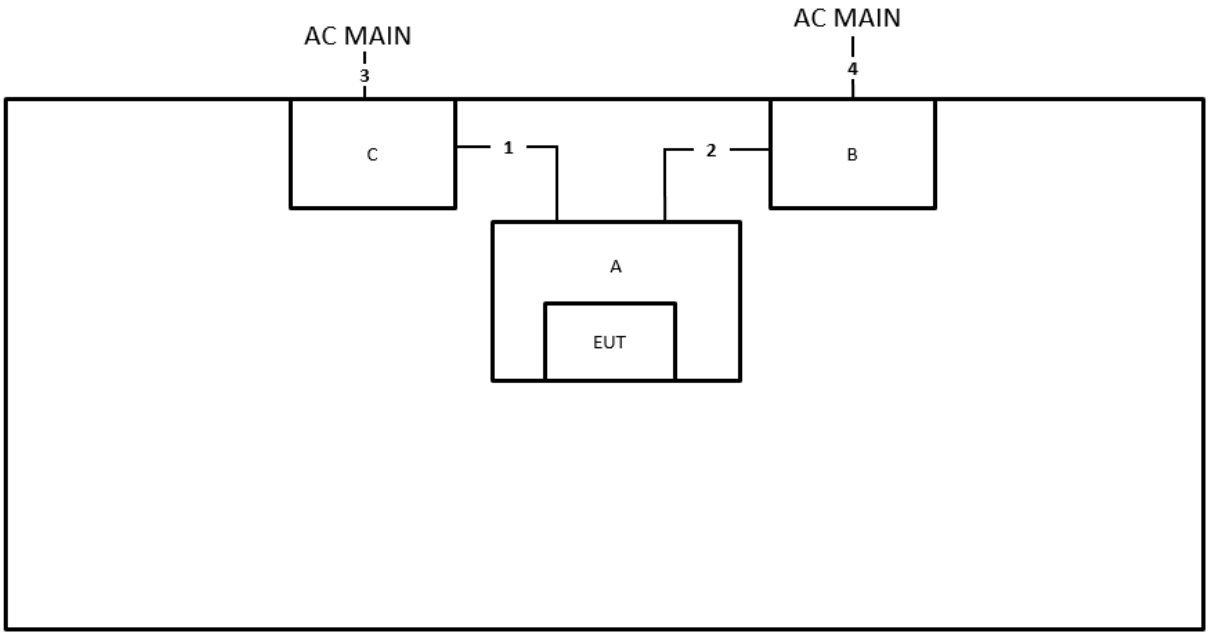
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	DC cable*2	No	1m
3	Type C USB cable	Yes	1m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.2m
2	DC cable*2	No	1m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	USB to Type C cable	Yes	1m
2	DC cable*2	No	1m
3	Power cable	No	1.7m
4	Power cable	No	1.2m

3 Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

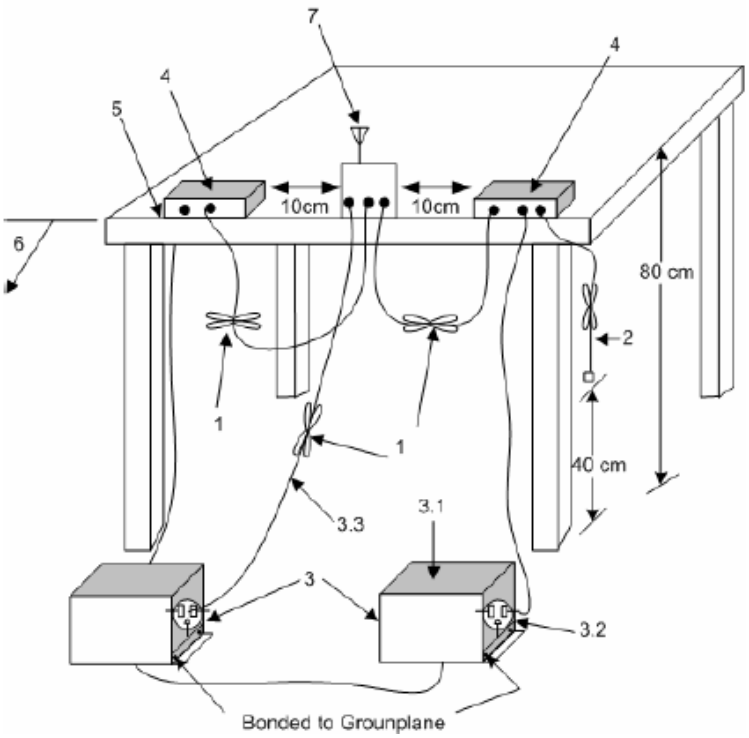
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

4 Transmitter Test Result – DTS

4.1 DTS Bandwidth

4.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

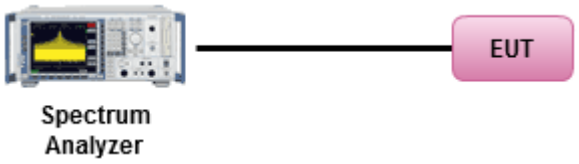
4.1.2 Measuring Instruments

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

4.1.3 Test Procedures

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

4.1.4 Test Setup

Emission Bandwidth


4.1.5 Test Result of Emission Bandwidth

Refer as Appendix B

4.2 Maximum Conducted Output Power

4.2.1 Maximum Conducted Output Power Limit

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

4.2.2 Measuring Instruments

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

4.2.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
	☐ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	☒ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).

▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

4.2.4 Test Setup

Maximum Conducted Output Power (Power Meter)


4.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

4.3 Power Spectral Density

4.3.1 Power Spectral Density Limit

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

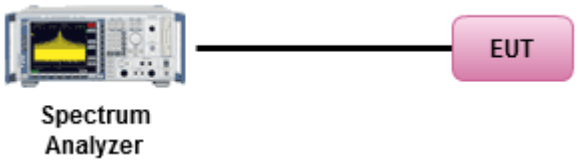
4.3.2 Measuring Instruments

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

4.3.3 Test Procedures

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

4.3.4 Test Setup

Power Spectral Density


4.3.5 Test Result of Power Spectral Density

Refer as Appendix D

4.4 Emissions in Non-restricted Frequency Bands

4.4.1 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 PSD level.

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

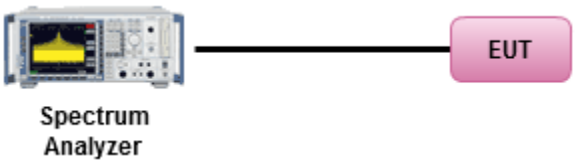
4.4.2 Measuring Instruments

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

4.4.3 Test Procedures

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

4.4.4 Test Setup

Emissions in Non-restricted Frequency Bands


4.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

4.5 Emissions in Restricted Frequency Bands

4.5.1 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 below30 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.

4.5.2 Measuring Instruments

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

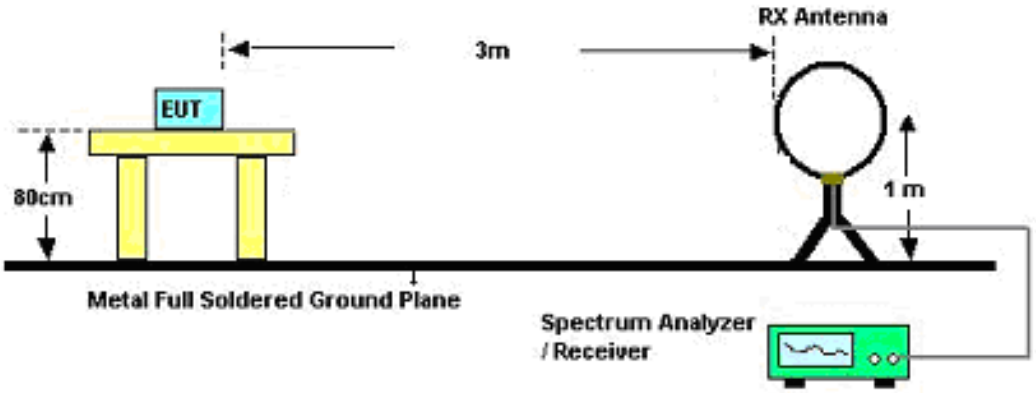
4.5.3 Test Procedures

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

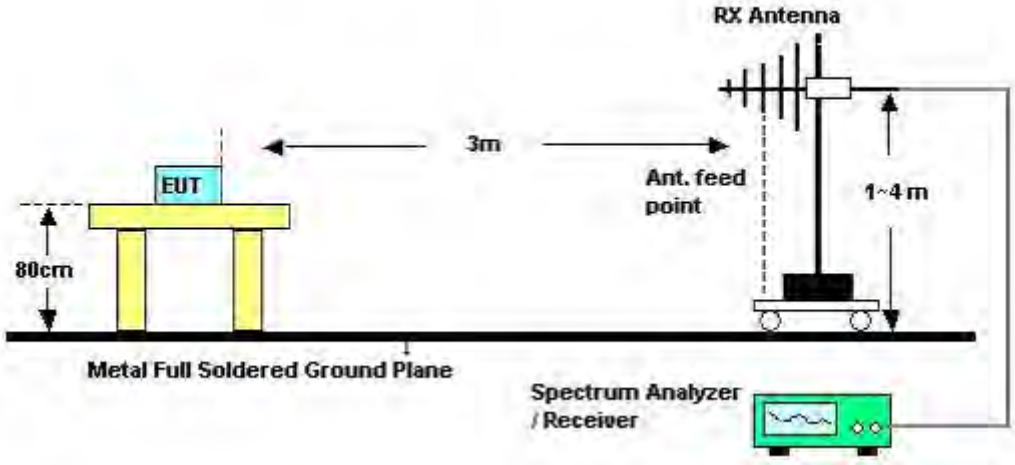
4.5.4 Test Setup

Transmitter Radiated Emissions

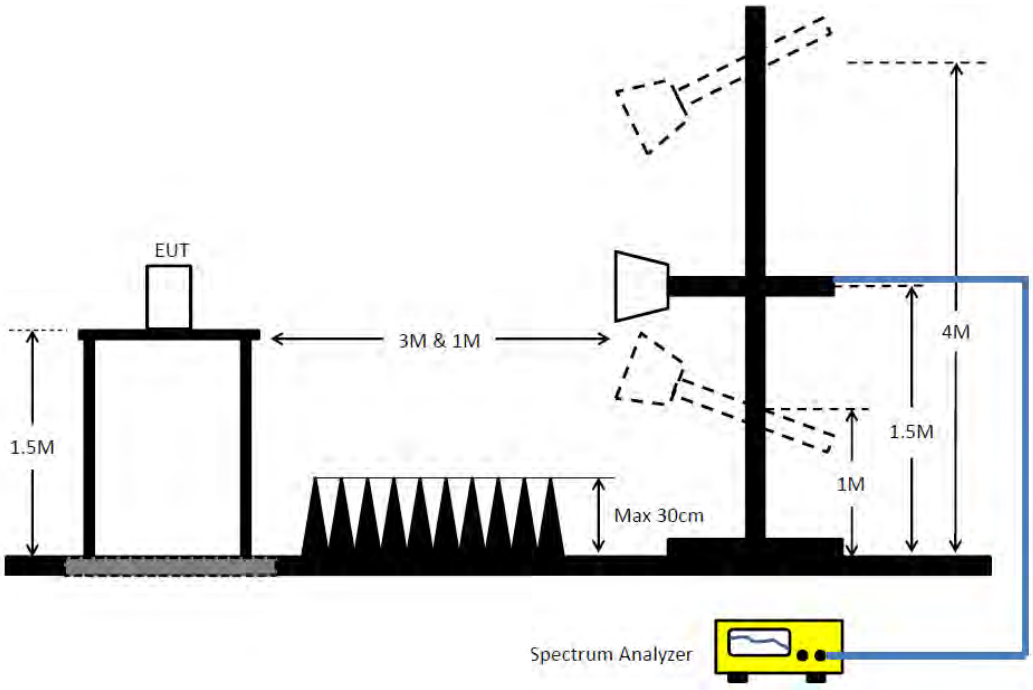
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



4.5.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor (if applicable) = Level.

4.5.6 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

4.5.7 Transmitter Radiated Unwanted Emissions

Refer as Appendix F

5 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 18, 2023	May 17, 2024	Conduction (CO01-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 29, 2023	Dec. 28, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30MHz ~ 1GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 18, 2024	Feb. 17, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 23, 2023	Jun. 22, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-31+32	30MHz ~ 1GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 05, 2023	May 04, 2024	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (05CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1GHz ~ 18GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1GHz ~ 18GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30MHz ~ 1GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N06 07	30MHz ~ 1GHz	Oct. 07, 2023	Oct. 06, 2024	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 23, 2023	May 22, 2024	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 22, 2024	May 21, 2025	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 21, 2023	Mar. 20, 2024	Radiation (03CH04-CB
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 19, 2024	Mar. 18, 2025	Radiation (03CH04-CB
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 31, 2023	Jul. 30, 2024	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH06-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 14, 2023	Aug. 13, 2024	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 19, 2023	Oct. 18, 2024	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 19, 2023	Oct. 18, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1–26.5GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

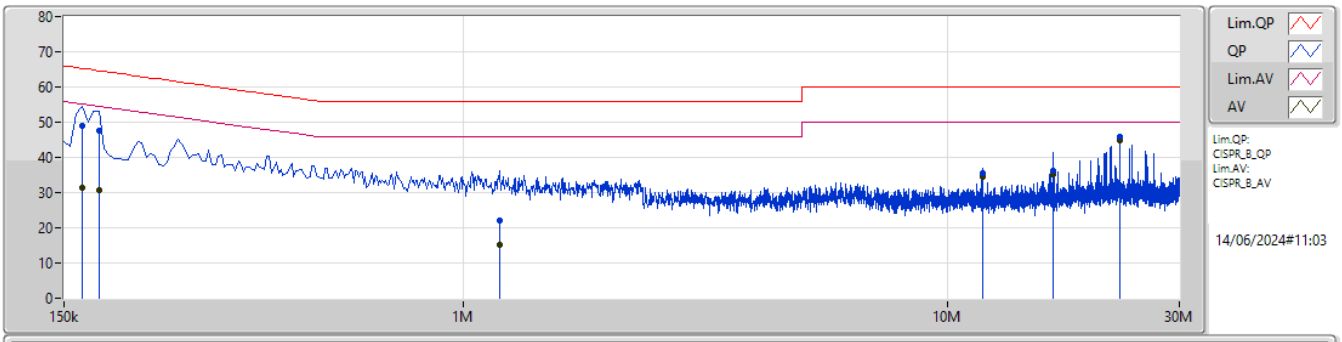
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

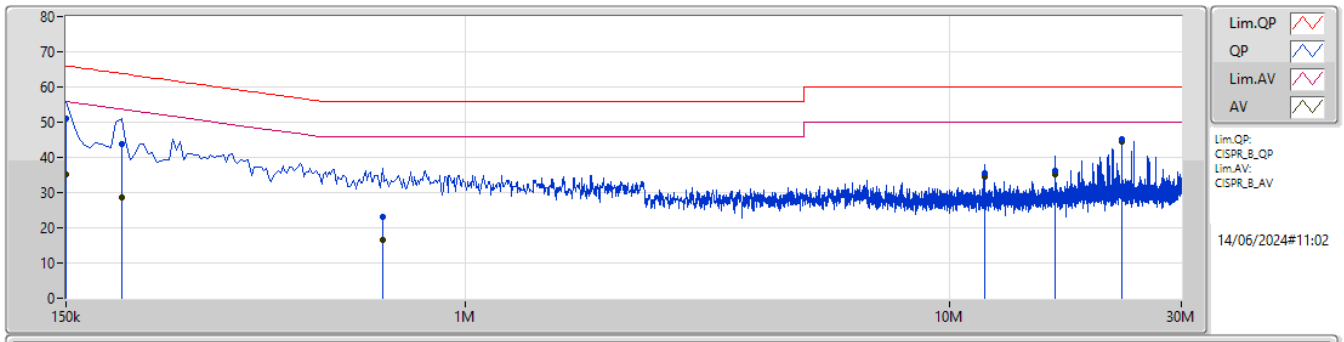
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 6	Pass	AV	22.641M	45.00	50.00	-5.00	Line

Mode 6



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	163.5k	48.97	65.27	-16.30	9.92	Line	-	39.05	0.04	0.02	9.86
AV	163.5k	31.24	55.27	-24.03	9.92	Line	-	21.32	0.04	0.02	9.86
QP	177k	47.50	64.62	-17.12	9.92	Line	-	37.58	0.04	0.02	9.86
AV	177k	30.84	54.62	-23.78	9.92	Line	-	20.92	0.04	0.02	9.86
QP	1.185M	22.04	56.00	-33.96	10.00	Line	-	12.04	0.07	0.02	9.91
AV	1.185M	15.23	46.00	-30.77	10.00	Line	-	5.23	0.07	0.02	9.91
QP	11.76M	35.38	60.00	-24.62	10.34	Line	-	25.04	0.25	0.16	9.93
AV	11.76M	34.55	50.00	-15.45	10.34	Line	-	24.21	0.25	0.16	9.93
QP	16.467M	36.33	60.00	-23.67	10.46	Line	-	25.87	0.29	0.20	9.97
AV	16.467M	35.31	50.00	-14.69	10.46	Line	-	24.85	0.29	0.20	9.97
QP	22.641M	45.70	60.00	-14.30	10.60	Line	-	35.10	0.32	0.24	10.04
AV	22.641M	45.00	50.00	-5.00	10.60	Line	"Worst"	34.40	0.32	0.24	10.04

Mode 6



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	50.91	66.00	-15.09	9.95	Neutral	-	40.96	0.06	0.02	9.87
AV	150k	35.09	56.00	-20.91	9.95	Neutral	-	25.14	0.06	0.02	9.87
QP	195k	43.71	63.82	-20.11	9.93	Neutral	-	33.78	0.06	0.02	9.85
AV	195k	28.62	53.82	-25.20	9.93	Neutral	-	18.69	0.06	0.02	9.85
QP	676.5k	23.27	56.00	-32.73	9.98	Neutral	-	13.29	0.07	0.01	9.90
AV	676.5k	16.51	46.00	-29.49	9.98	Neutral	-	6.53	0.07	0.01	9.90
QP	11.76M	35.39	60.00	-24.61	10.34	Neutral	-	25.05	0.25	0.16	9.93
AV	11.76M	34.61	50.00	-15.39	10.34	Neutral	-	24.27	0.25	0.16	9.93
QP	16.467M	36.23	60.00	-23.77	10.45	Neutral	-	25.78	0.28	0.20	9.97
AV	16.467M	35.22	50.00	-14.78	10.45	Neutral	-	24.77	0.28	0.20	9.97
QP	22.641M	45.33	60.00	-14.67	10.62	Neutral	-	34.71	0.34	0.24	10.04
AV	22.641M	44.42	50.00	-5.58	10.62	Neutral	"Worst"	33.80	0.34	0.24	10.04

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
Thread_3MHz_Nss1_1TX	1.613M	2.38M	2M38D1D	1.556M	2.241M

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

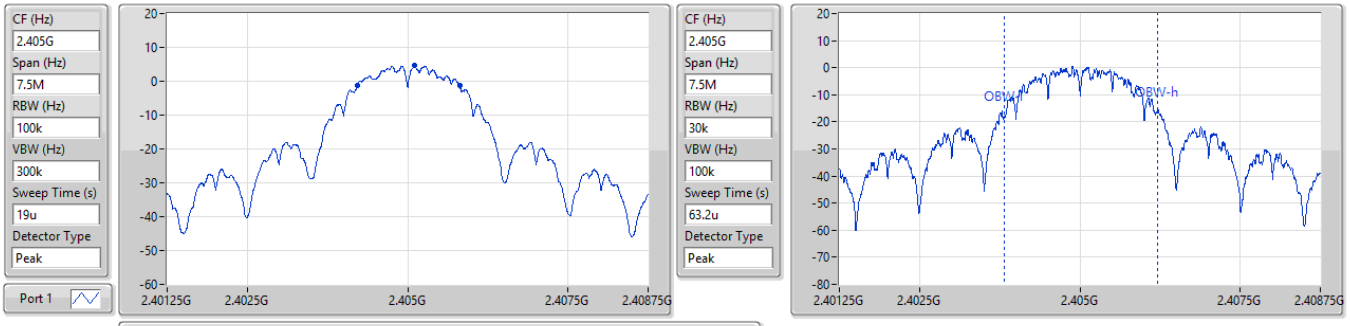
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
Thread_3MHz_Nss1_1TX	-	-	-	-
2405MHz	Pass	500k	1.594M	2.38M
2440MHz	Pass	500k	1.556M	2.358M
2475MHz	Pass	500k	1.613M	2.241M
2480MHz	Pass	500k	1.579M	2.256M

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

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX **EBW**

2405MHz

28/12/2023

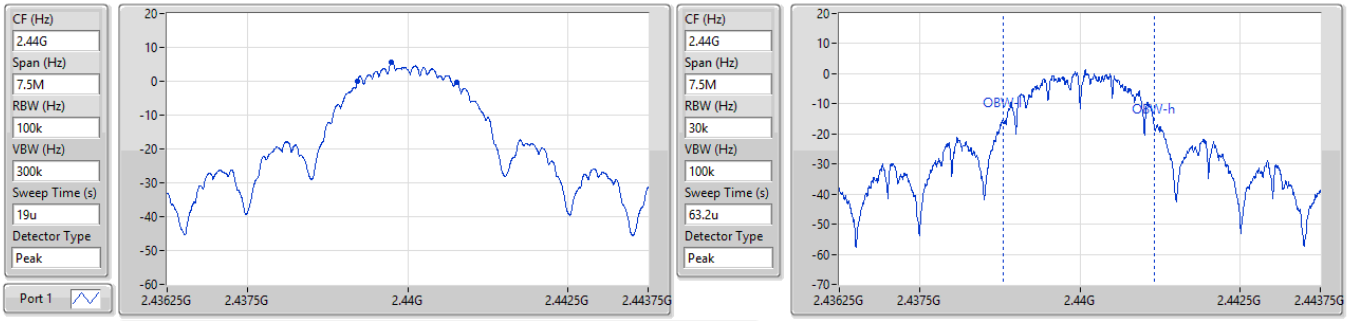


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.594M	2.404216G	2.40581G	2.38M	2.403827G	2.406207G	500k	1

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX **EBW**

2440MHz

28/12/2023

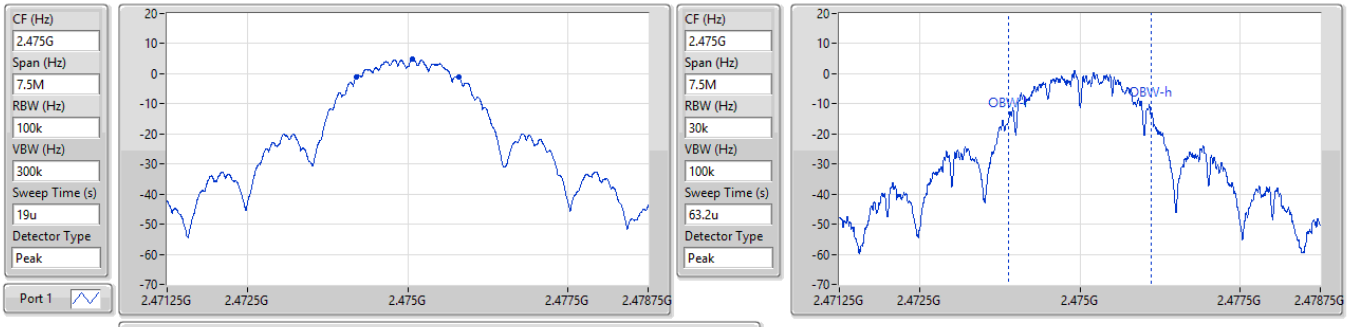


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.556M	2.439216G	2.440773G	2.358M	2.438812G	2.441169G	500k	1

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX **EBW**

2475MHz

28/12/2023

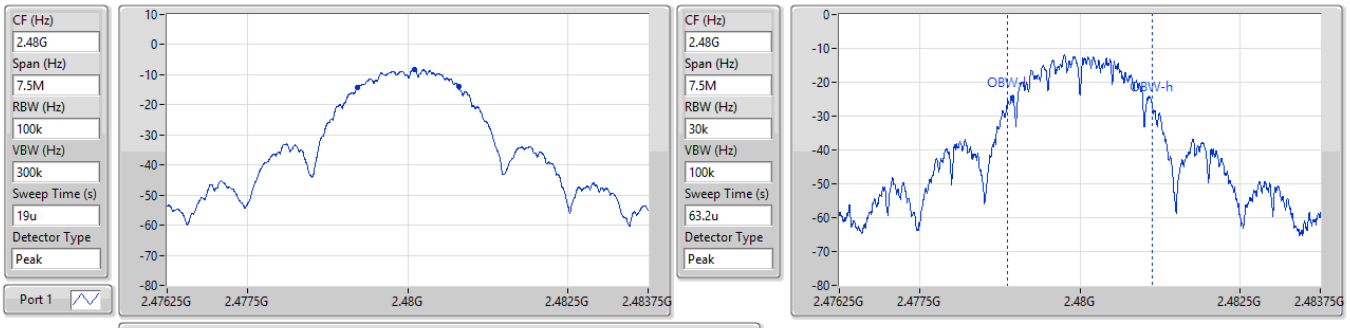


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.613M	2.474194G	2.475806G	2.241M	2.473879G	2.476121G	500k	1

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX **EBW**

2480MHz

28/12/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.579M	2.479213G	2.480791G	2.256M	2.478872G	2.481128G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
Thread_3MHz_Nss1_1TX	9.91	0.00979

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
Thread_3MHz_Nss1_1TX	-	-	-	-	-
2405MHz	Pass	4.96	9.67	9.67	30.00
2440MHz	Pass	4.96	9.91	9.91	30.00
2475MHz	Pass	4.96	9.46	9.46	30.00
2480MHz	Pass	4.96	-3.34	-3.34	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
Thread_3MHz_Nss1_1TX	-7.26

RBW = 3kHz;

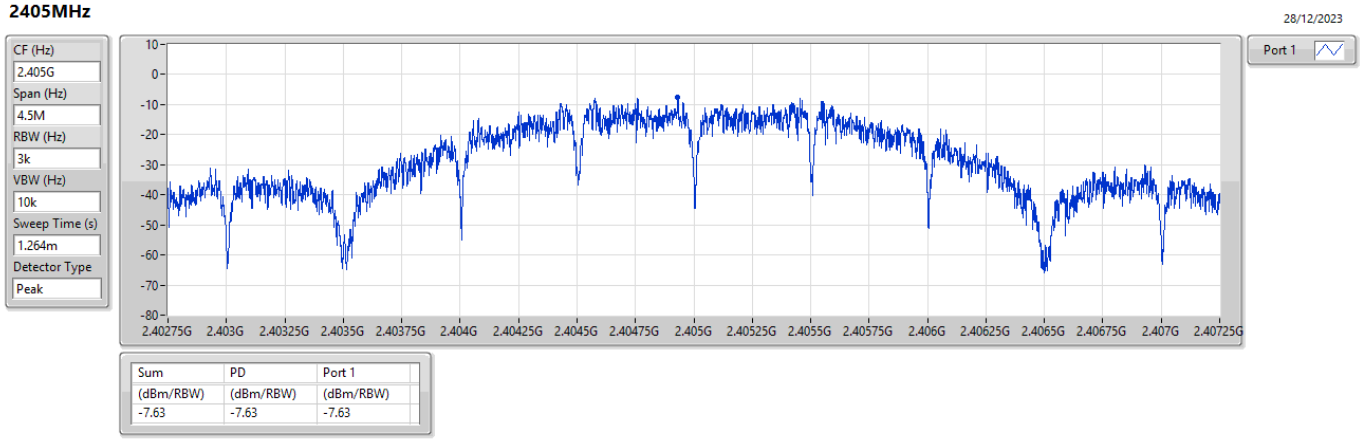
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
Thread_3MHz_Nss1_1TX	-	-	-	-	-
2405MHz	Pass	4.96	-7.63	-7.63	8.00
2440MHz	Pass	4.96	-7.26	-7.26	8.00
2475MHz	Pass	4.96	-7.70	-7.70	8.00
2480MHz	Pass	4.96	-19.81	-19.81	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_3MHz_Nss1_1TX **PSD**

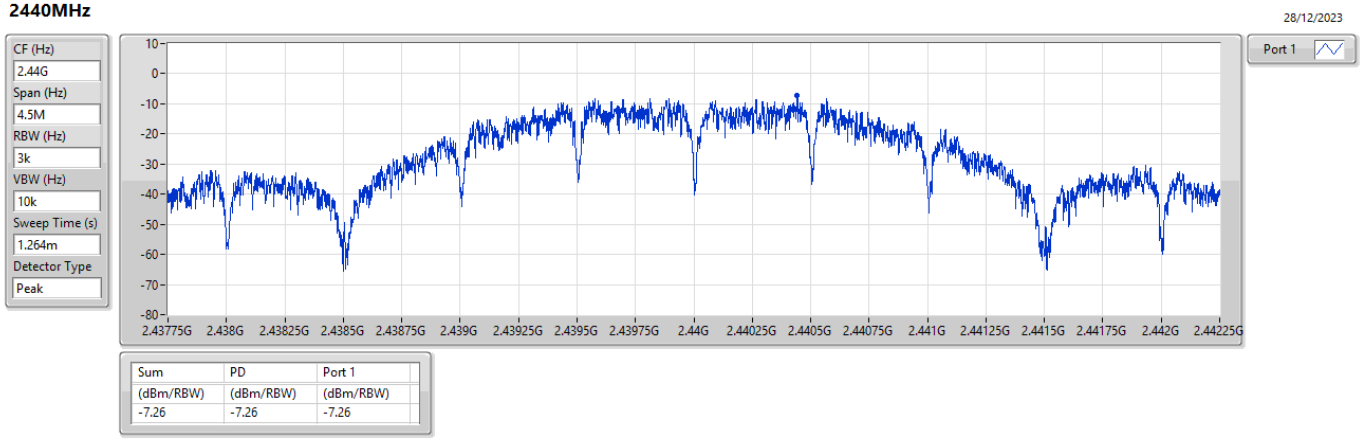
2405MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.63	-7.63	-7.63

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX **PSD**

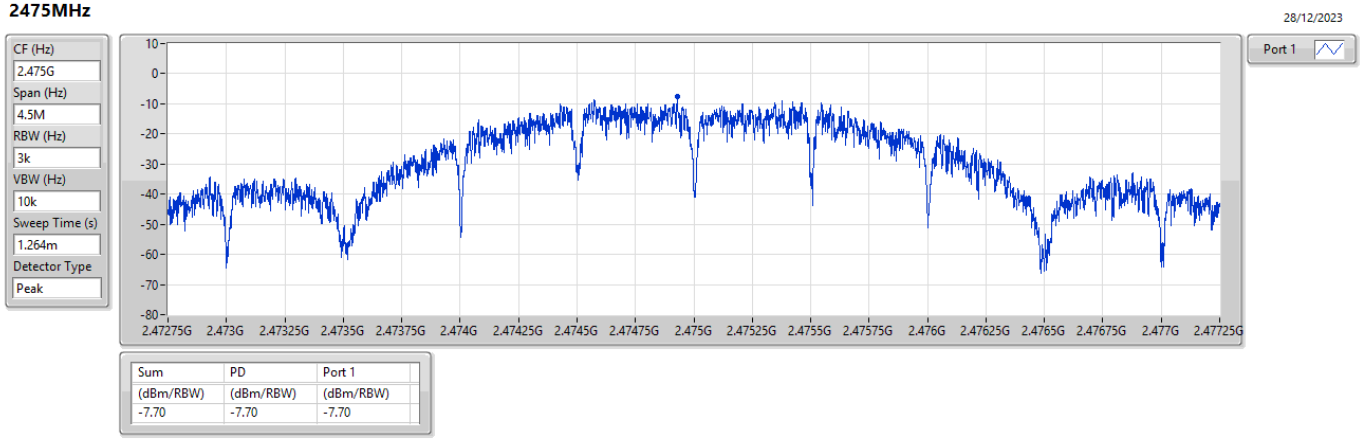
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.26	-7.26	-7.26

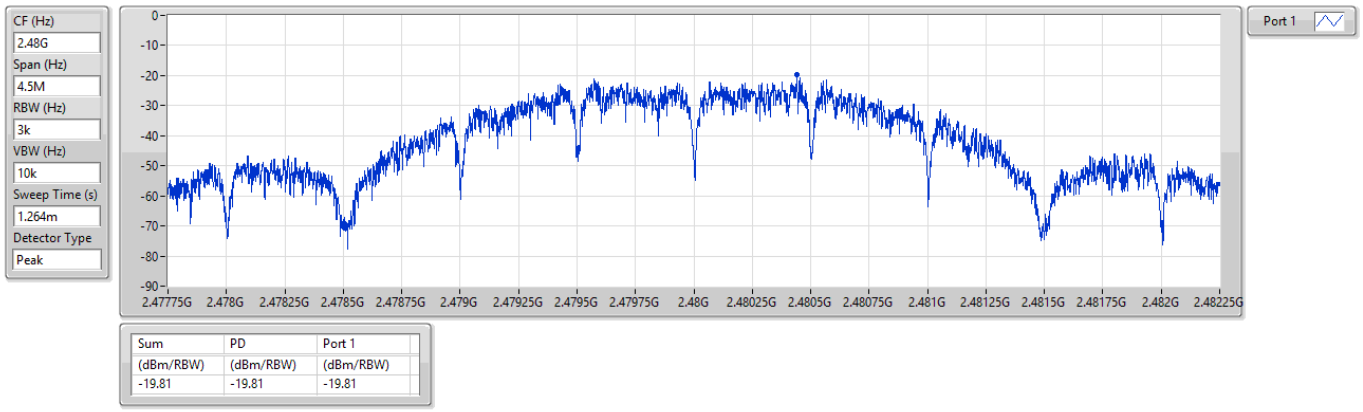
2.4-2.4835GHz_Thread_3MHz_Nss1_1TX **PSD**

2475MHz



2.4-2.4835GHz_Thread_3MHz_Nss1_1TX **PSD**

2480MHz



Summary

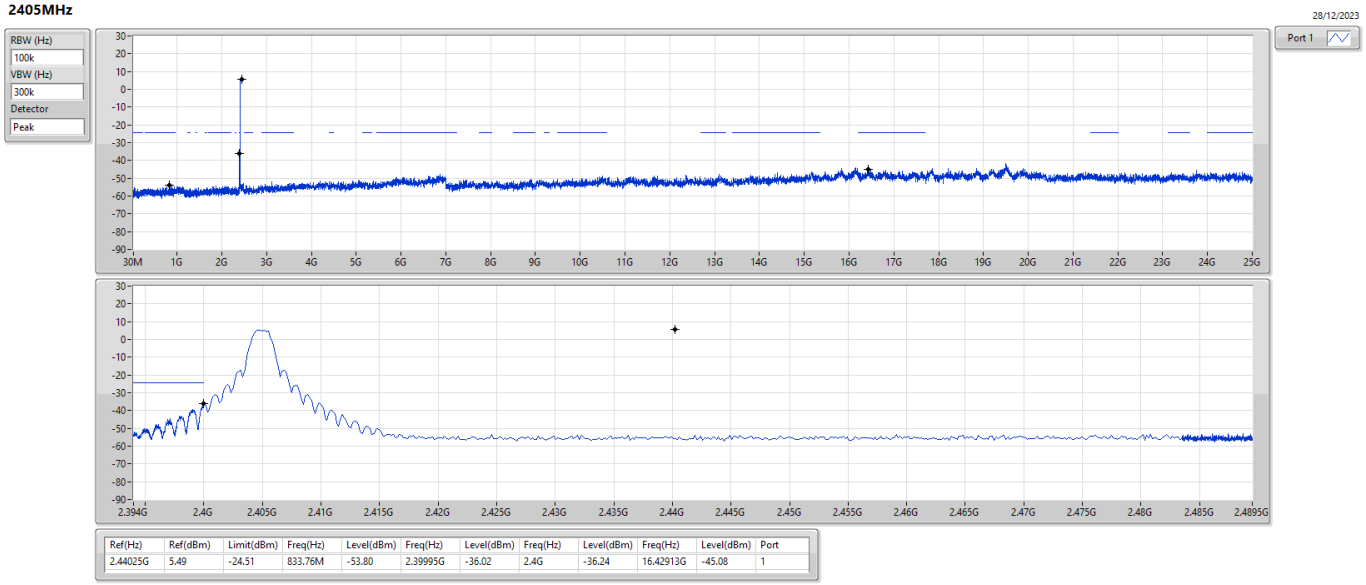
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
Thread_3MHz_Nss1_1TX	Pass	2.44025G	5.49	-24.51	833.76M	-53.80	2.39995G	-36.02	2.4G	-36.24	16.42913G	-45.08	1

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)	Port
Thread_3MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.44025G	5.49	-24.51	833.76M	-53.80	2.39995G	-36.02	2.4G	-36.24	16.42913G	-45.08	1
2440MHz	Pass	2.44025G	5.49	-24.51	1.96966G	-53.53	2.39514G	-54.09	2.4G	-55.97	17.48431G	-45.08	1
2475MHz	Pass	2.44025G	5.49	-24.51	1.76636G	-54.10	2.39447G	-52.80	2.4G	-56.97	17.59967G	-45.67	1
2480MHz	Pass	2.44025G	5.49	-24.51	1.9803G	-54.33	2.39918G	-52.78	2.4G	-56.98	16.44601G	-44.92	1

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX CSENdB

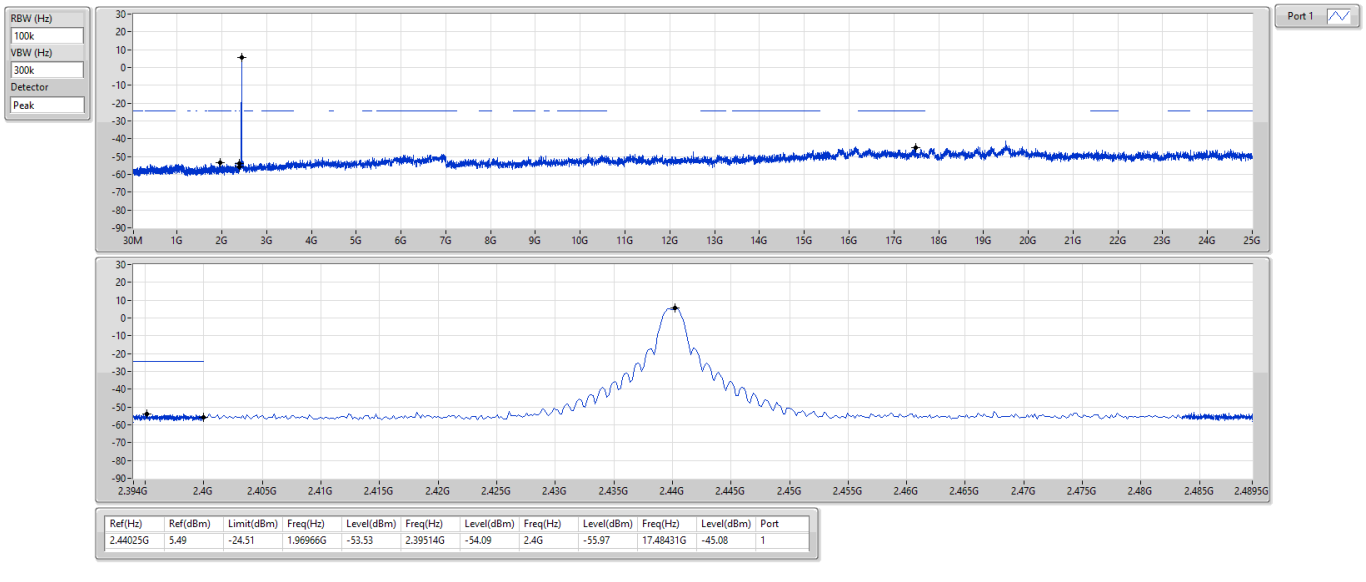
2405MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44025G	5.49	-24.51	833.76M	-53.80	2.39995G	-36.02	2.4G	-36.24	16.42913G	-45.08	1

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX CSENdB

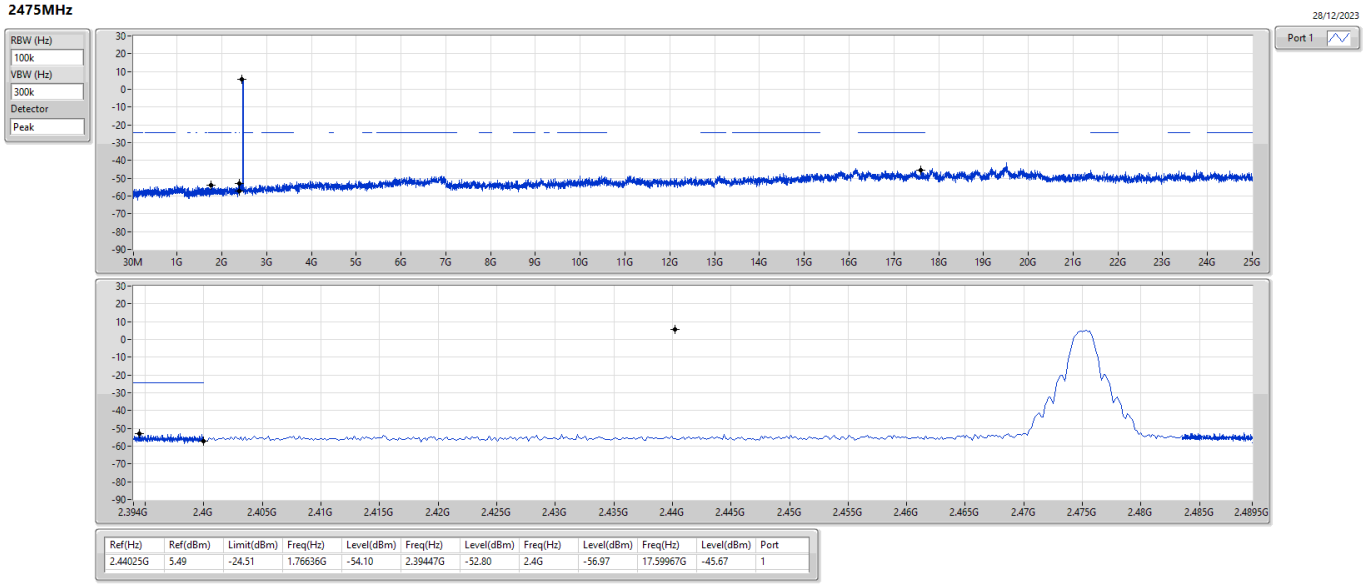
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44025G	5.49	-24.51	1.96966G	-53.53	2.39514G	-54.09	2.4G	-55.97	17.48431G	-45.08	1

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX CSENdB

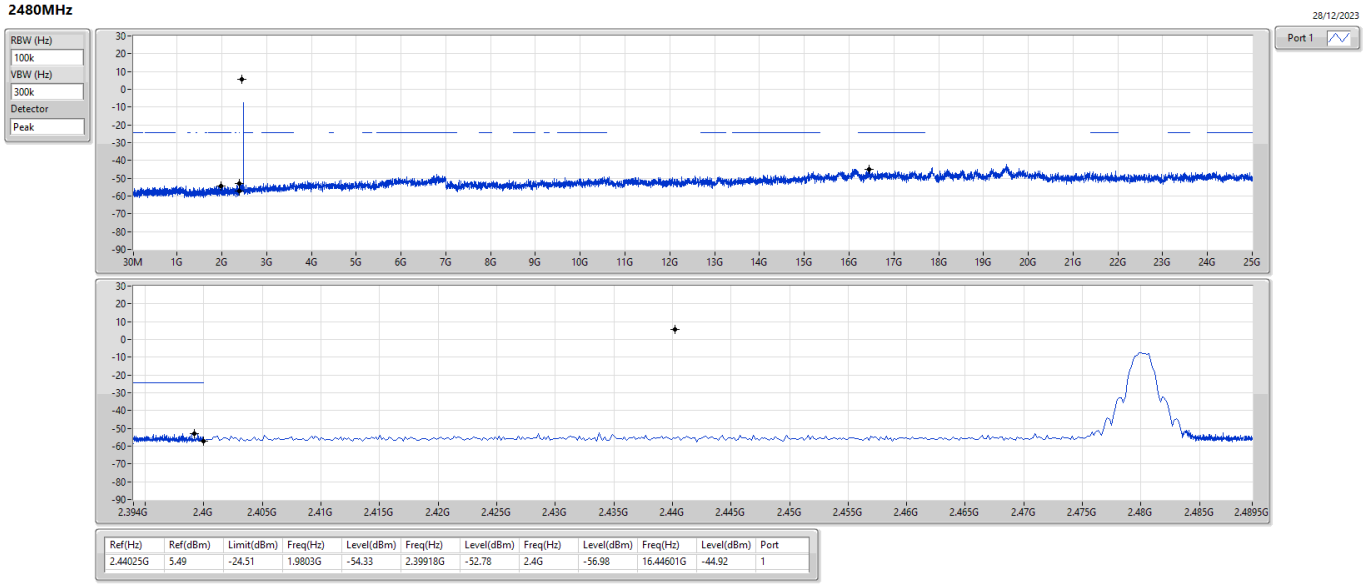
2475MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44025G	5.49	-24.51	1.76636G	-54.10	2.39447G	-52.80	2.4G	-56.97	17.59967G	-45.67	1

2.4-2.4835GHz_Thread_3MHz_Nss1_1TX CSENdB

2480MHz

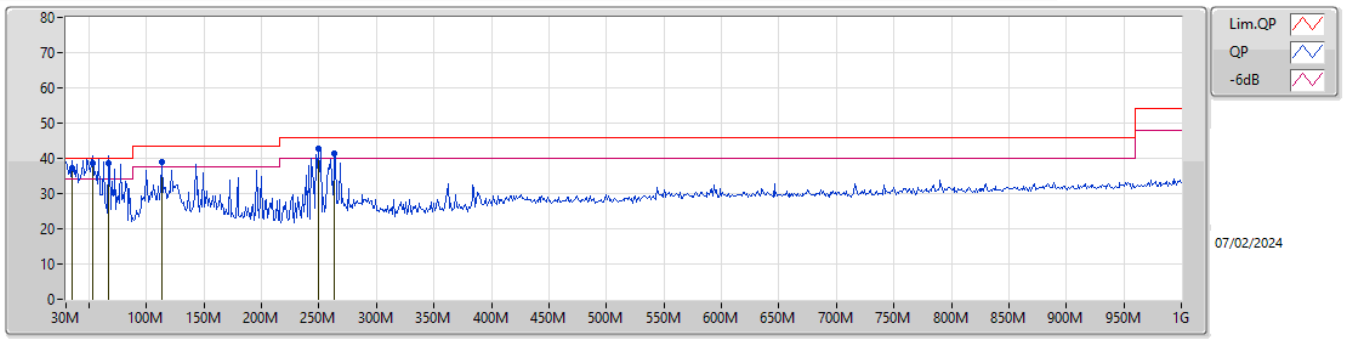


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44025G	5.49	-24.51	1.9803G	-54.33	2.39918G	-52.78	2.4G	-56.98	16.44601G	-44.92	1

Summary

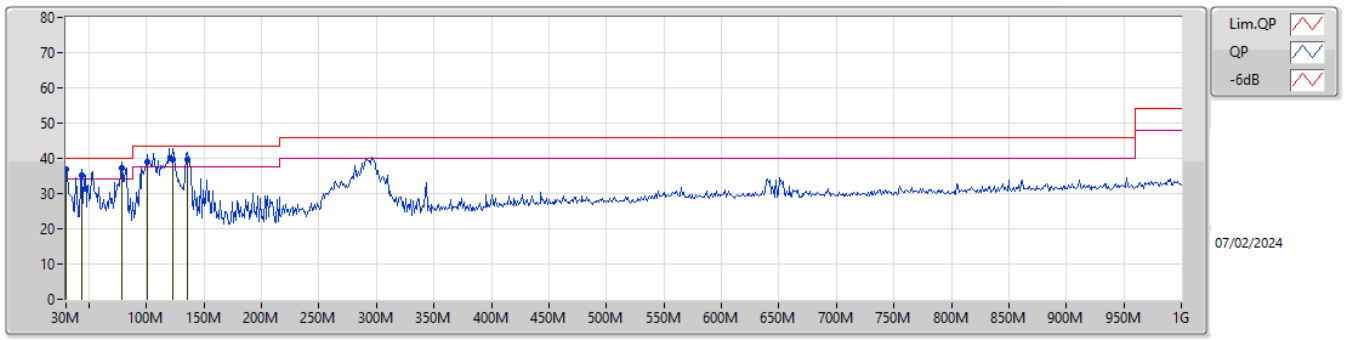
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	53.28M	38.62	40.00	-1.38	Vertical

Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	34.85M	37.26	40.00	-2.74	-22.26	3	Vertical	43	1.00	-	59.52	21.35	0.71	44.32
QP	53.28M	38.62	40.00	-1.38	-31.40	3	Vertical	253	1.25	"Worst"	70.02	12.36	0.86	44.62
QP	66.86M	38.57	40.00	-1.43	-32.32	3	Vertical	178	1.00	-	70.89	11.39	0.92	44.63
PK	113.42M	39.05	43.50	-4.45	-26.37	3	Vertical	150	1.25	-	65.42	17.04	1.21	44.62
PK	249.22M	42.62	46.00	-3.38	-25.27	3	Vertical	166	2.00	-	67.89	17.38	1.73	44.38
PK	263.77M	41.21	46.00	-4.79	-23.53	3	Vertical	166	2.00	-	64.74	19.02	1.80	44.35

Mode 2



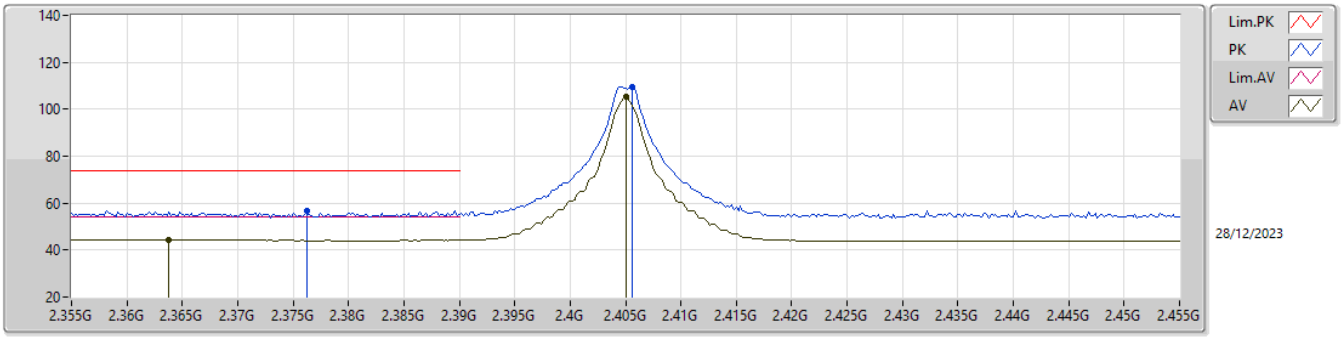
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30M	37.00	40.00	-3.00	-19.56	3	Horizontal	177	1.25	-	56.56	24.08	0.68	44.32
QP	43.58M	35.05	40.00	-4.95	-27.26	3	Horizontal	174	1.25	-	62.31	16.35	0.82	44.43
QP	78.5M	37.12	40.00	-2.88	-31.71	3	Horizontal	131	1.25	"Worst"	68.83	11.88	1.00	44.59
QP	100.81M	39.06	43.50	-4.44	-27.52	3	Horizontal	162	2.00	-	66.58	15.94	1.14	44.60
QP	123.12M	39.82	43.50	-3.68	-26.18	3	Horizontal	156	2.00	-	66.00	17.20	1.25	44.63
QP	135.73M	39.73	43.50	-3.77	-26.65	3	Horizontal	156	2.00	-	66.38	16.66	1.30	44.61

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
Thread	Pass	AV	2.4835G	48.35	54.00	-5.65	3	Vertical	39	1.90	-

2.4-2.4835GHz_Thread

2405MHz_TX

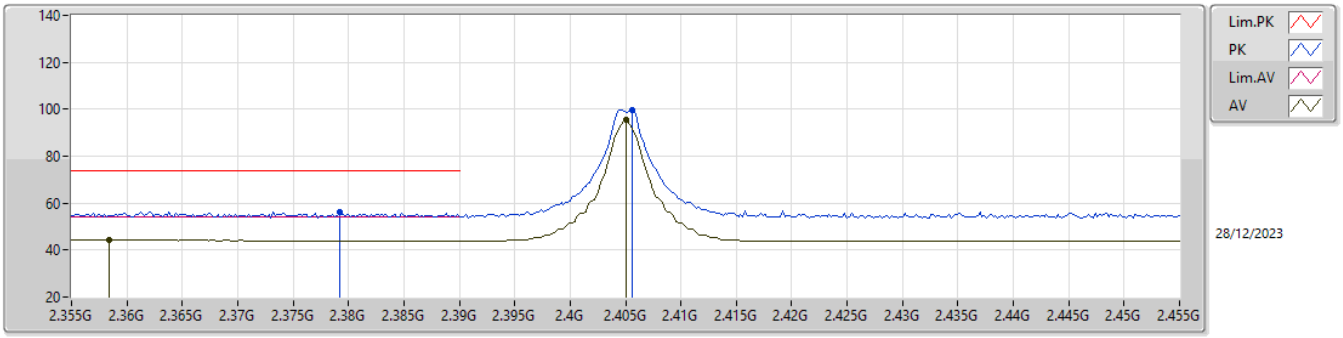


EUT Y_1TX
Setting 14
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3762G	56.98	74.00	-17.02	24.54	3	Vertical	29	1.80	-	27.74	4.70	-
AV	2.3638G	44.35	54.00	-9.65	11.81	3	Vertical	29	1.80	-	27.86	4.68	-
PK	2.4056G	109.70	Inf	-Inf	77.33	3	Vertical	29	1.80	-	27.64	4.73	-
AV	2.405G	105.31	Inf	-Inf	72.94	3	Vertical	29	1.80	-	27.65	4.72	-

2.4-2.4835GHz_Thread

2405MHz_TX

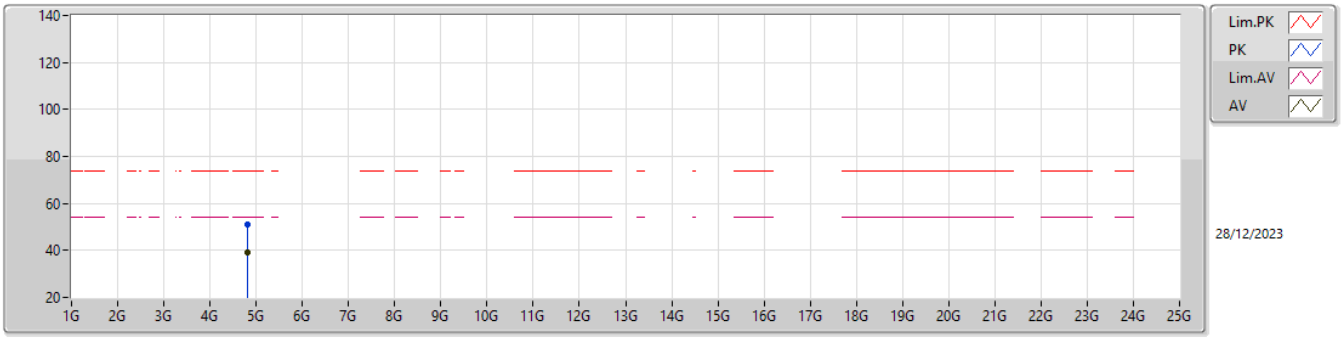


EUT Y_1TX
Setting 14
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3792G	56.28	74.00	-17.72	23.87	3	Horizontal	276	1.80	-	27.71	4.70	-
AV	2.3584G	44.22	54.00	-9.78	11.64	3	Horizontal	276	1.80	-	27.90	4.68	-
PK	2.4056G	99.75	Inf	-Inf	67.38	3	Horizontal	276	1.80	-	27.64	4.73	-
AV	2.405G	95.40	Inf	-Inf	63.03	3	Horizontal	276	1.80	-	27.65	4.72	-

2.4-2.4835GHz_Thread

2405MHz_TX

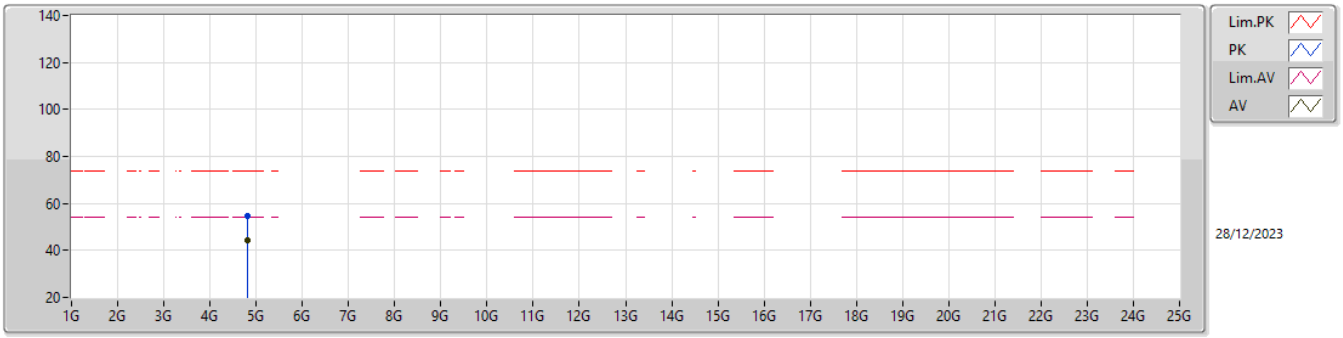


EUT Y_1TX
Setting 14
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.81094G	51.04	74.00	-22.96	43.56	3	Vertical	10	2.35	-	31.30	6.68	30.50
AV	4.81102G	39.19	54.00	-14.81	31.71	3	Vertical	10	2.35	-	31.30	6.68	30.50

2.4-2.4835GHz_Thread

2405MHz_TX

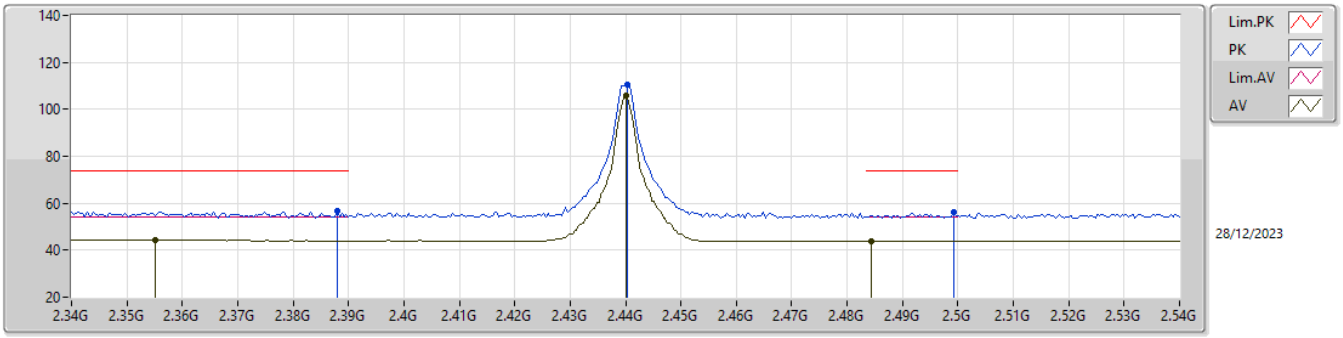


EUT Y_1TX
Setting 14
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.81084G	54.64	74.00	-19.36	47.16	3	Horizontal	234	2.04	-	31.30	6.68	30.50
AV	4.80902G	44.10	54.00	-9.90	36.62	3	Horizontal	234	2.04	-	31.30	6.68	30.50

2.4-2.4835GHz_Thread

2440MHz_TX

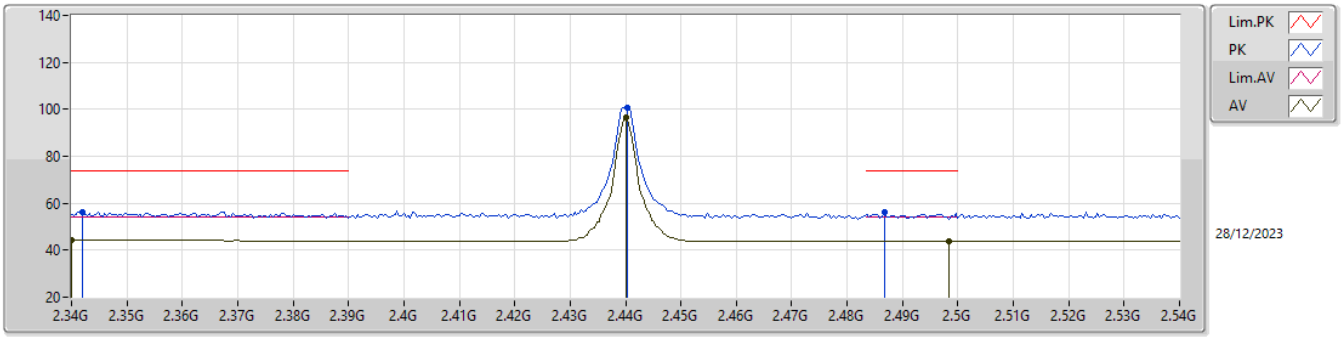


EUT Y_1TX
Setting 14
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.388G	56.69	74.00	-17.31	24.28	3	Vertical	49	2.22	-	27.70	4.71	-
AV	2.3552G	44.40	54.00	-9.60	11.83	3	Vertical	49	2.22	-	27.90	4.67	-
PK	2.4404G	110.29	Inf	-Inf	78.03	3	Vertical	49	2.22	-	27.50	4.76	-
AV	2.44G	105.91	Inf	-Inf	73.65	3	Vertical	49	2.22	-	27.50	4.76	-
PK	2.4992G	56.07	74.00	-17.93	23.86	3	Vertical	49	2.22	-	27.40	4.81	-
AV	2.4844G	43.80	54.00	-10.20	11.60	3	Vertical	49	2.22	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2440MHz_TX

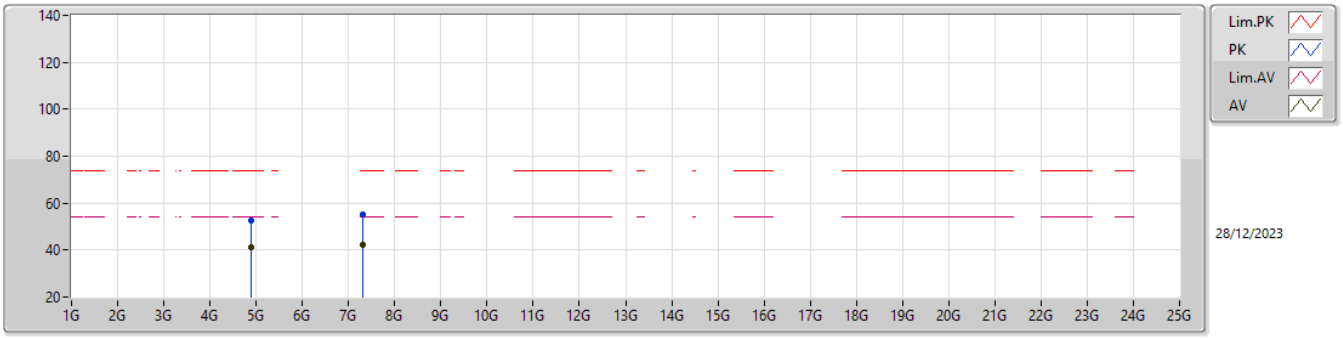


EUT Y_1TX
Setting 14
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.342G	56.32	74.00	-17.68	23.76	3	Horizontal	123	1.34	-	27.90	4.66	-
AV	2.34G	44.28	54.00	-9.72	11.72	3	Horizontal	123	1.34	-	27.90	4.66	-
PK	2.4404G	100.74	Inf	-Inf	68.48	3	Horizontal	123	1.34	-	27.50	4.76	-
AV	2.44G	96.35	Inf	-Inf	64.09	3	Horizontal	123	1.34	-	27.50	4.76	-
PK	2.4868G	56.04	74.00	-17.96	23.84	3	Horizontal	123	1.34	-	27.40	4.80	-
AV	2.4984G	43.75	54.00	-10.25	11.54	3	Horizontal	123	1.34	-	27.40	4.81	-

2.4-2.4835GHz_Thread

2440MHz_TX

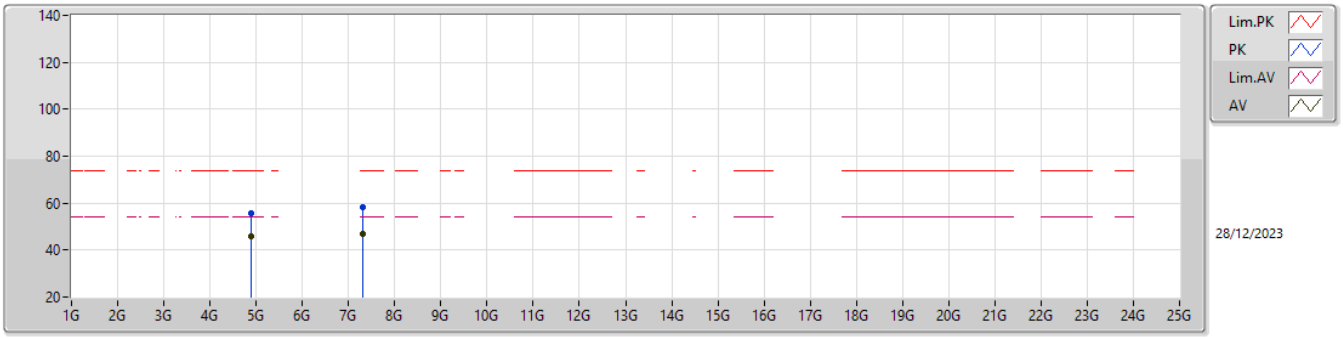


EUT Y_1TX
Setting 14
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.88094G	52.37	74.00	-21.63	44.76	3	Vertical	360	2.03	-	31.30	6.74	30.43
AV	4.88098G	41.02	54.00	-12.98	33.41	3	Vertical	360	2.03	-	31.30	6.74	30.43
PK	7.32156G	55.27	74.00	-18.73	41.71	3	Vertical	236	2.75	-	36.60	8.34	31.38
AV	7.31854G	42.43	54.00	-11.57	28.87	3	Vertical	236	2.75	-	36.60	8.34	31.38

2.4-2.4835GHz_Thread

2440MHz_TX

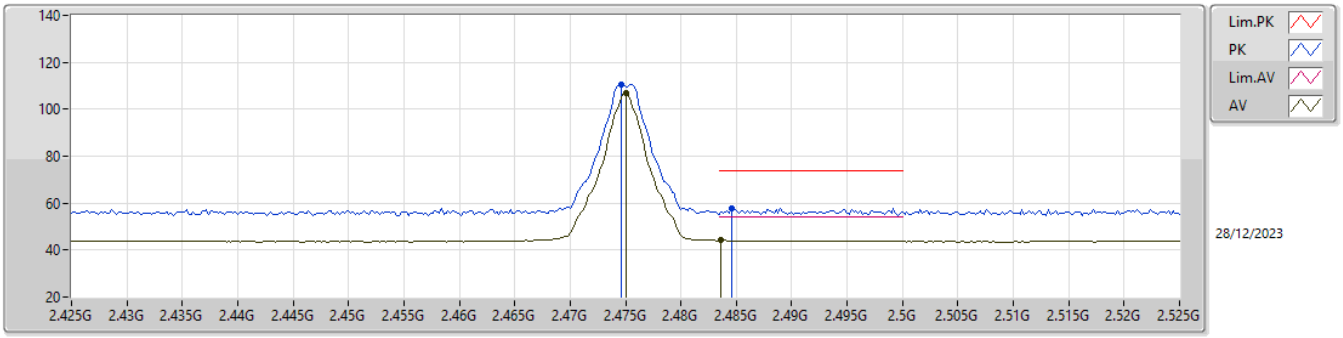


EUT Y_1TX
Setting 14
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87894G	55.70	74.00	-18.30	48.10	3	Horizontal	235	1.86	-	31.30	6.74	30.44
AV	4.879G	46.01	54.00	-7.99	38.41	3	Horizontal	235	1.86	-	31.30	6.74	30.44
PK	7.31844G	58.36	74.00	-15.64	44.80	3	Horizontal	246	1.78	-	36.60	8.34	31.38
AV	7.3186G	46.92	54.00	-7.08	33.36	3	Horizontal	246	1.78	-	36.60	8.34	31.38

2.4-2.4835GHz_Thread

2475MHz_TX

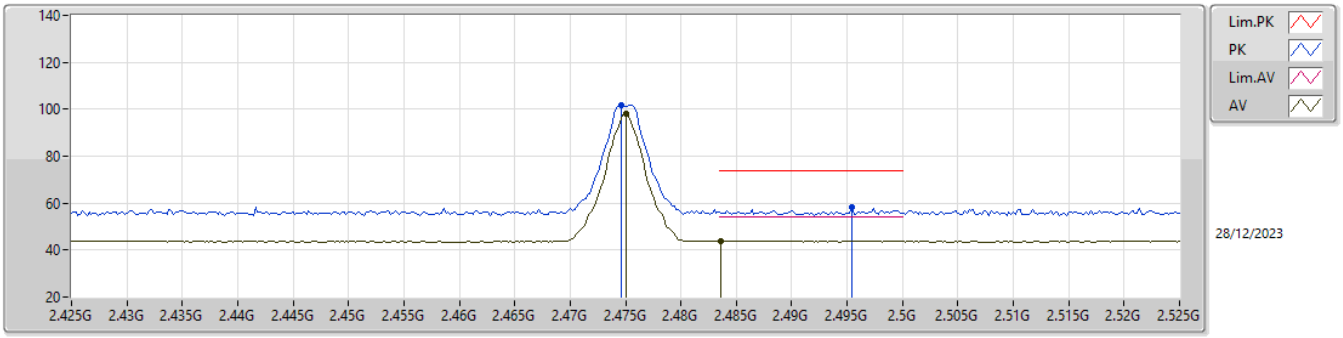


EUT Y_1TX
Setting 14
01-U-J-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4746G	110.56	Inf	-Inf	78.50	3	Vertical	329	1.70	-	27.45	4.61	-
AV	2.475G	106.98	Inf	-Inf	74.92	3	Vertical	329	1.70	-	27.45	4.61	-
PK	2.4846G	57.65	74.00	-16.35	25.55	3	Vertical	329	1.70	-	27.50	4.60	-
AV	2.4836G	44.13	54.00	-9.87	12.03	3	Vertical	329	1.70	-	27.50	4.60	-

2.4-2.4835GHz_Thread

2475MHz_TX

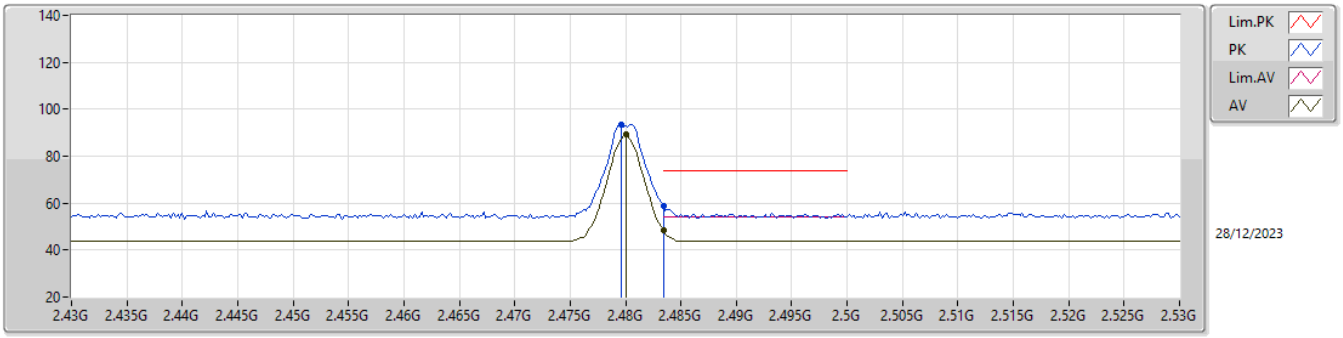


EUT Y_1TX
Setting 14
01-U-J-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4746G	101.88	Inf	-Inf	69.82	3	Horizontal	78	1.88	-	27.45	4.61	-
AV	2.475G	98.34	Inf	-Inf	66.28	3	Horizontal	78	1.88	-	27.45	4.61	-
PK	2.4954G	58.42	74.00	-15.58	26.33	3	Horizontal	78	1.88	-	27.50	4.59	-
AV	2.4836G	43.75	54.00	-10.25	11.65	3	Horizontal	78	1.88	-	27.50	4.60	-

2.4-2.4835GHz_Thread

2480MHz_TX

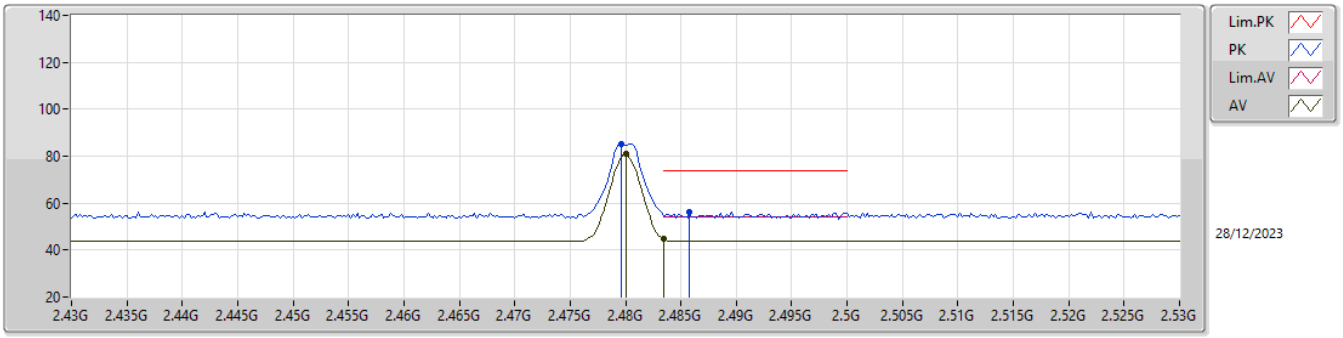


EUT Y_1TX
Setting Default
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4796G	93.54	Inf	-Inf	61.35	3	Vertical	39	1.90	-	27.40	4.79	-
AV	2.48G	89.20	Inf	-Inf	57.01	3	Vertical	39	1.90	-	27.40	4.79	-
PK	2.4835G	58.66	74.00	-15.34	26.46	3	Vertical	39	1.90	-	27.40	4.80	-
AV	2.4835G	48.35	54.00	-5.65	16.15	3	Vertical	39	1.90	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2480MHz_TX

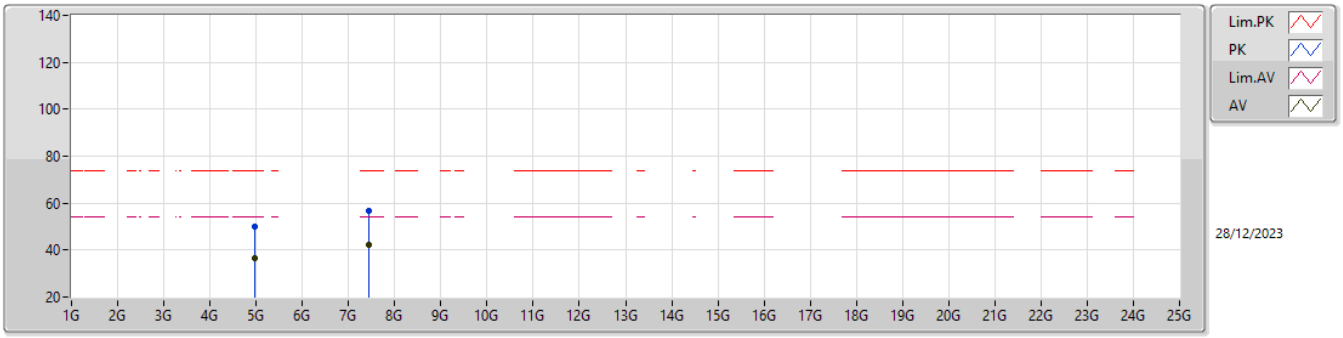


EUT Y_1TX
Setting Default
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4796G	85.42	Inf	-Inf	53.23	3	Horizontal	253	2.57	-	27.40	4.79	-
AV	2.48G	81.02	Inf	-Inf	48.83	3	Horizontal	253	2.57	-	27.40	4.79	-
PK	2.4858G	56.35	74.00	-17.65	24.15	3	Horizontal	253	2.57	-	27.40	4.80	-
AV	2.4835G	44.73	54.00	-9.27	12.53	3	Horizontal	253	2.57	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2480MHz_TX

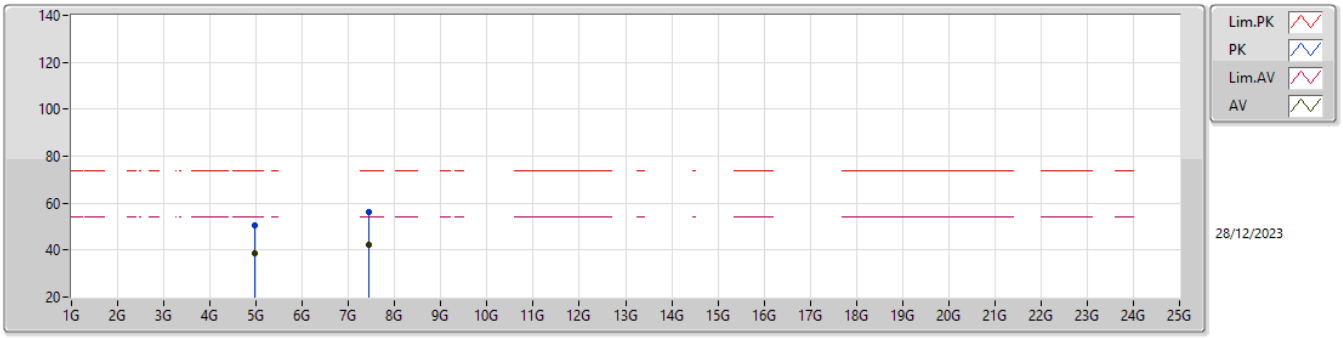


EUT Y_1TX
Setting Default
06-C-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.95892G	49.83	74.00	-24.17	41.85	3	Vertical	3	2.02	-	31.54	6.81	30.37
AV	4.959G	36.65	54.00	-17.35	28.67	3	Vertical	3	2.02	-	31.54	6.81	30.37
PK	7.4415G	56.74	74.00	-17.26	42.92	3	Vertical	195	3.00	-	36.68	8.38	31.24
AV	7.44134G	42.44	54.00	-11.56	28.62	3	Vertical	195	3.00	-	36.68	8.38	31.24

2.4-2.4835GHz_Thread

2480MHz_TX



EUT Y_1TX
Setting Default
06-C-P-5

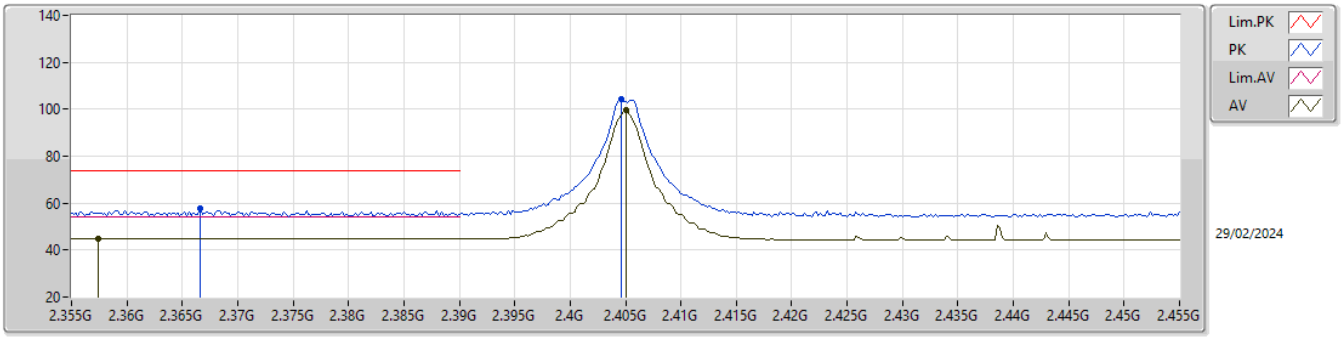
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9608G	50.34	74.00	-23.66	42.35	3	Horizontal	233	1.79	-	31.54	6.81	30.36
AV	4.95902G	38.65	54.00	-15.35	30.67	3	Horizontal	233	1.79	-	31.54	6.81	30.37
PK	7.4393G	56.15	74.00	-17.85	42.33	3	Horizontal	248	1.69	-	36.68	8.38	31.24
AV	7.4384G	42.48	54.00	-11.52	28.67	3	Horizontal	248	1.69	-	36.68	8.37	31.24

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
Thread	Pass	AV	2.4835G	48.18	54.00	-5.82	3	Vertical	72	2.86	-

2.4-2.4835GHz_Thread

2405MHz_TX

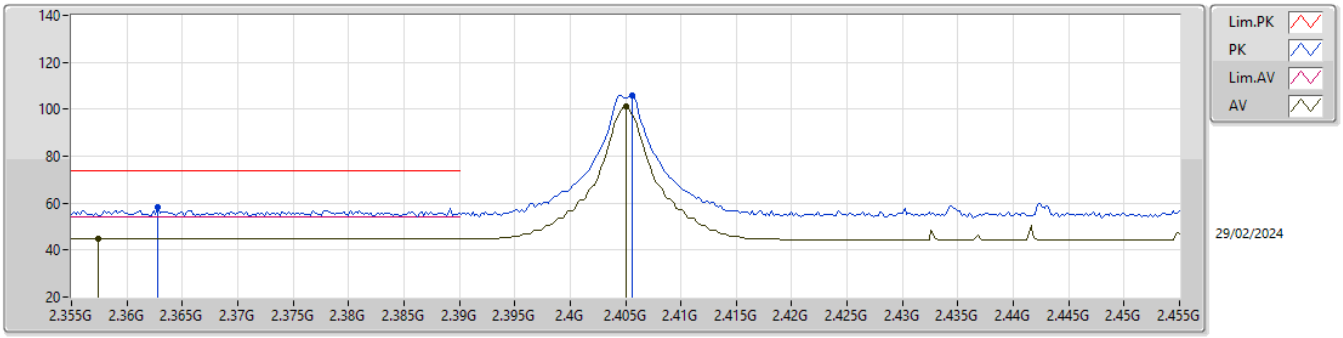


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3666G	57.73	74.00	-16.27	25.22	3	Vertical	225	1.80	-	27.83	4.68	-
AV	2.3574G	44.99	54.00	-9.01	12.41	3	Vertical	225	1.80	-	27.90	4.68	-
PK	2.4046G	104.07	Inf	-Inf	71.70	3	Vertical	225	1.80	-	27.65	4.72	-
AV	2.405G	99.66	Inf	-Inf	67.29	3	Vertical	225	1.80	-	27.65	4.72	-

2.4-2.4835GHz_Thread

2405MHz_TX

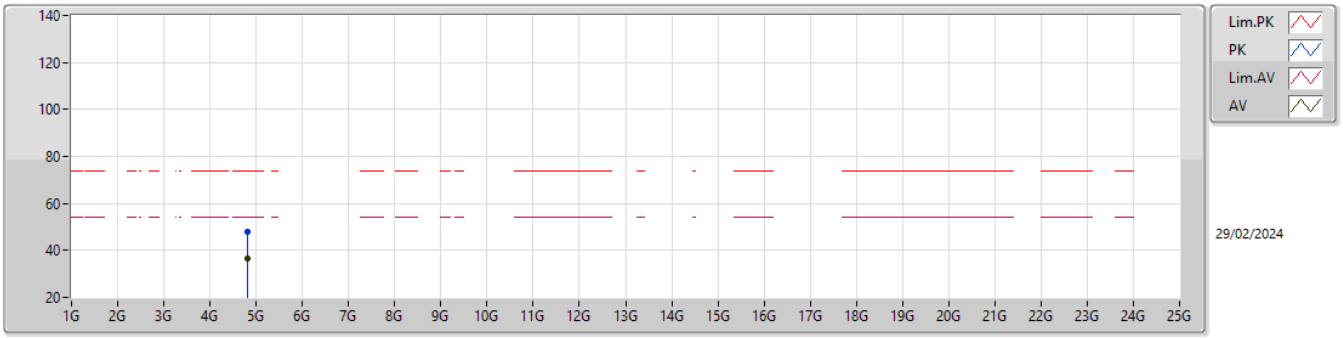


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3628G	58.53	74.00	-15.47	25.98	3	Horizontal	27	3.00	-	27.87	4.68	-
AV	2.3574G	45.04	54.00	-8.96	12.46	3	Horizontal	27	3.00	-	27.90	4.68	-
PK	2.4056G	105.79	Inf	-Inf	73.42	3	Horizontal	27	3.00	-	27.64	4.73	-
AV	2.405G	101.38	Inf	-Inf	69.01	3	Horizontal	27	3.00	-	27.65	4.72	-

2.4-2.4835GHz_Thread

2405MHz_TX

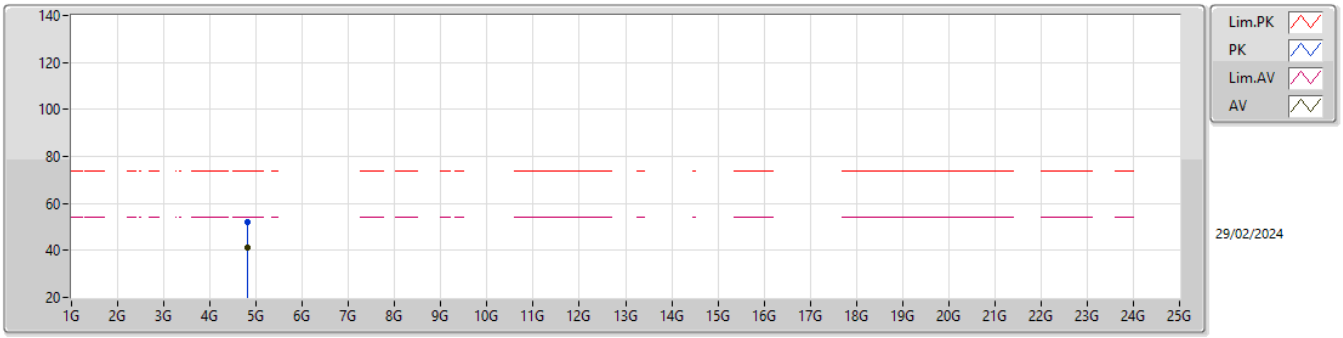


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8088G	48.02	74.00	-25.98	41.45	3	Vertical	207	1.31	-	31.30	6.68	31.41
AV	4.81096G	36.57	54.00	-17.43	30.00	3	Vertical	207	1.31	-	31.30	6.68	31.41

2.4-2.4835GHz_Thread

2405MHz_TX

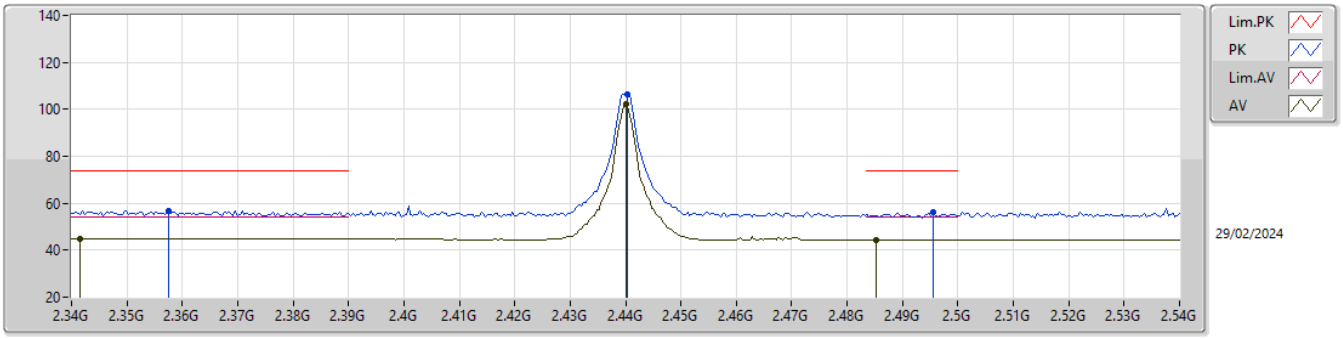


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.81102G	51.93	74.00	-22.07	45.36	3	Horizontal	297	2.78	-	31.30	6.68	31.41
AV	4.80904G	41.43	54.00	-12.57	34.86	3	Horizontal	297	2.78	-	31.30	6.68	31.41

2.4-2.4835GHz_Thread

2440MHz_TX

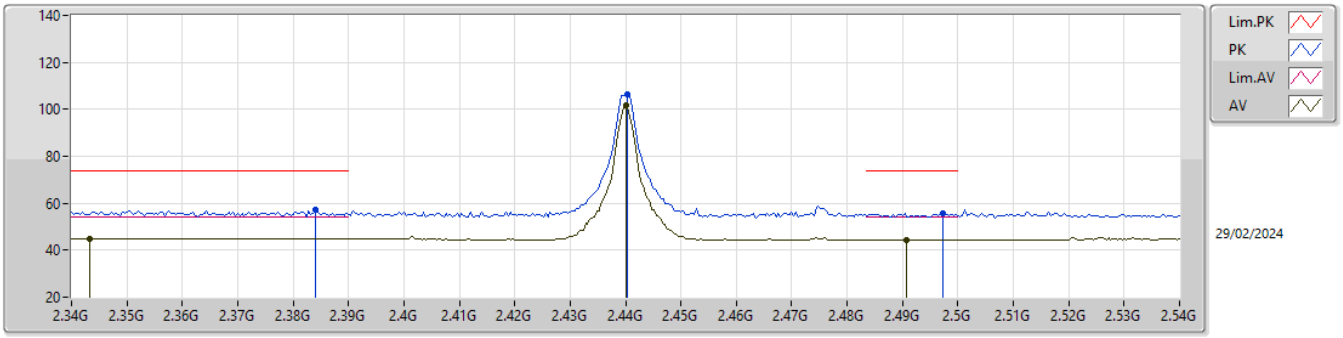


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3576G	56.95	74.00	-17.05	24.37	3	Vertical	69	1.80	-	27.90	4.68	-
AV	2.3416G	45.05	54.00	-8.95	12.49	3	Vertical	69	1.80	-	27.90	4.66	-
PK	2.4404G	106.43	Inf	-Inf	74.17	3	Vertical	69	1.80	-	27.50	4.76	-
AV	2.44G	102.10	Inf	-Inf	69.84	3	Vertical	69	1.80	-	27.50	4.76	-
PK	2.4956G	55.97	74.00	-18.03	23.76	3	Vertical	69	1.80	-	27.40	4.81	-
AV	2.4852G	44.44	54.00	-9.56	12.24	3	Vertical	69	1.80	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2440MHz_TX

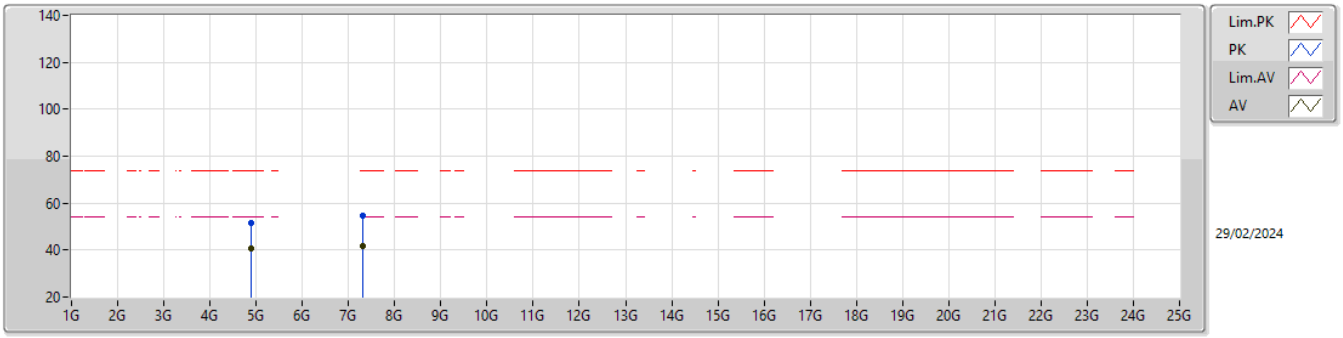


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.384G	57.00	74.00	-17.00	24.60	3	Horizontal	33	2.66	-	27.70	4.70	-
AV	2.3432G	45.04	54.00	-8.96	12.48	3	Horizontal	33	2.66	-	27.90	4.66	-
PK	2.4404G	106.14	Inf	-Inf	73.88	3	Horizontal	33	2.66	-	27.50	4.76	-
AV	2.44G	101.77	Inf	-Inf	69.51	3	Horizontal	33	2.66	-	27.50	4.76	-
PK	2.4972G	55.89	74.00	-18.11	23.68	3	Horizontal	33	2.66	-	27.40	4.81	-
AV	2.4908G	44.42	54.00	-9.58	12.22	3	Horizontal	33	2.66	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2440MHz_TX

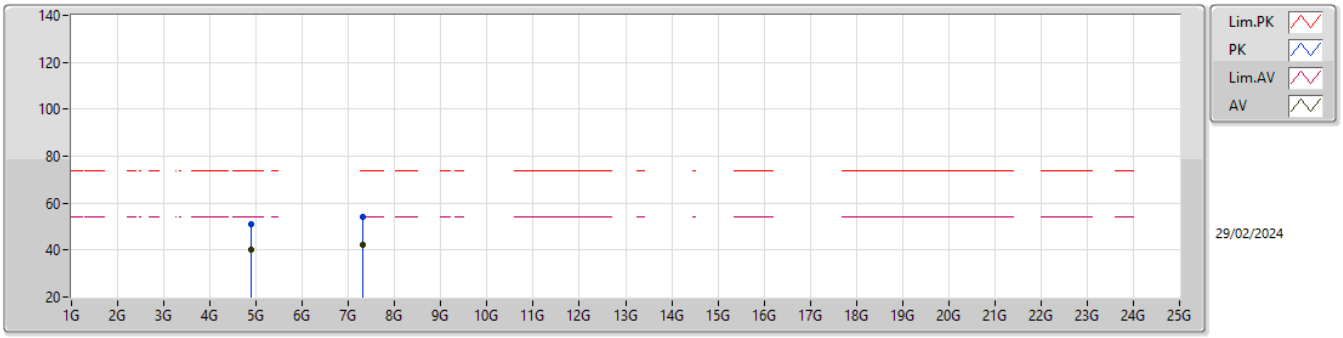


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87892G	51.46	74.00	-22.54	44.78	3	Vertical	321	2.90	-	31.30	6.74	31.36
AV	4.87898G	40.50	54.00	-13.50	33.82	3	Vertical	321	2.90	-	31.30	6.74	31.36
PK	7.31832G	54.48	74.00	-19.52	42.15	3	Vertical	335	3.00	-	36.60	8.34	32.61
AV	7.31862G	41.74	54.00	-12.26	29.41	3	Vertical	335	3.00	-	36.60	8.34	32.61

2.4-2.4835GHz_Thread

2440MHz_TX

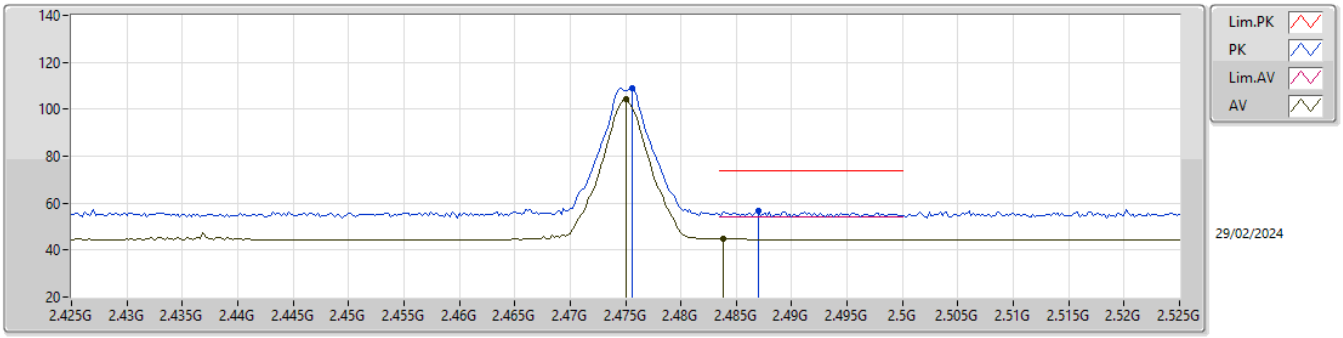


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8809G	51.25	74.00	-22.75	44.57	3	Horizontal	299	3.00	-	31.30	6.74	31.36
AV	4.87898G	40.28	54.00	-13.72	33.60	3	Horizontal	299	3.00	-	31.30	6.74	31.36
PK	7.3185G	54.25	74.00	-19.75	41.92	3	Horizontal	30	1.01	-	36.60	8.34	32.61
AV	7.3185G	42.11	54.00	-11.89	29.78	3	Horizontal	30	1.01	-	36.60	8.34	32.61

2.4-2.4835GHz_Thread

2475MHz_TX

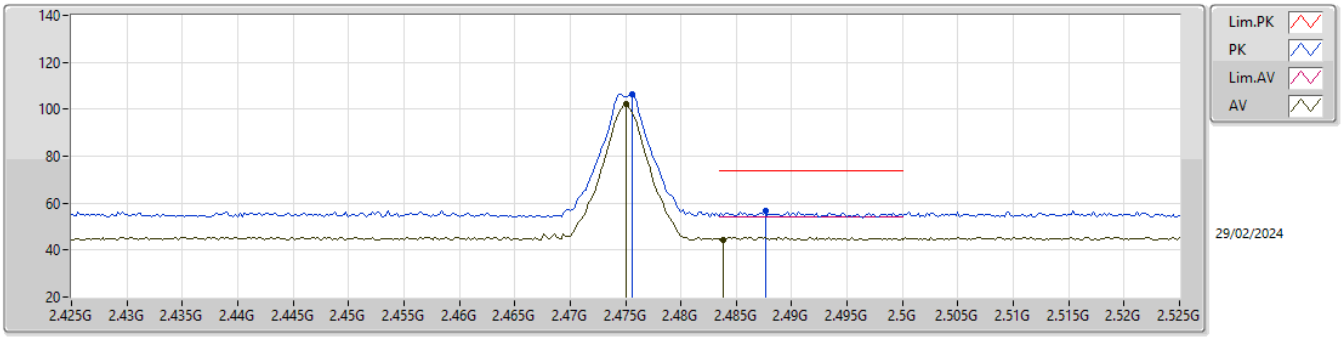


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4756G	108.80	Inf	-Inf	76.61	3	Vertical	66	2.86	-	27.40	4.79	-
AV	2.475G	104.49	Inf	-Inf	72.30	3	Vertical	66	2.86	-	27.40	4.79	-
PK	2.487G	56.52	74.00	-17.48	24.32	3	Vertical	66	2.86	-	27.40	4.80	-
AV	2.4838G	44.70	54.00	-9.30	12.50	3	Vertical	66	2.86	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2475MHz_TX

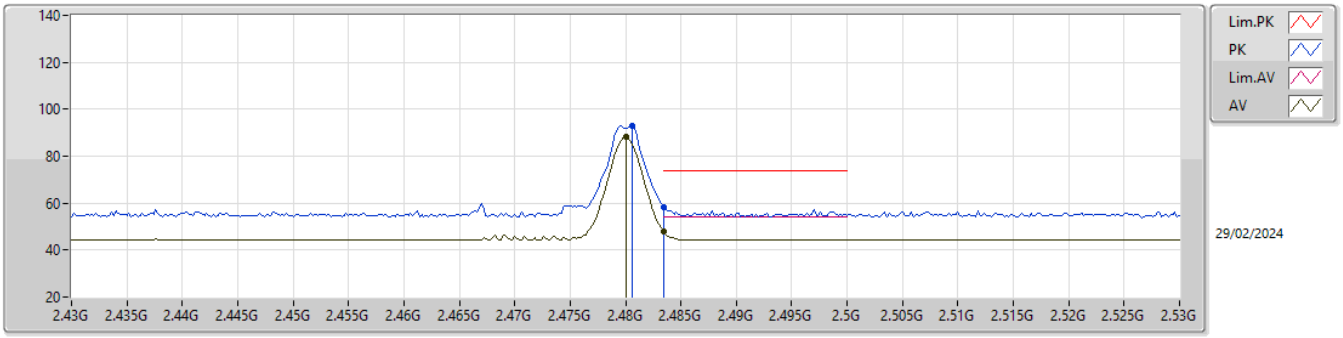


EUT Y_1TX
Setting 14
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4756G	106.38	Inf	-Inf	74.19	3	Horizontal	29	2.87	-	27.40	4.79	-
AV	2.475G	102.08	Inf	-Inf	69.89	3	Horizontal	29	2.87	-	27.40	4.79	-
PK	2.4876G	56.52	74.00	-17.48	24.32	3	Horizontal	29	2.87	-	27.40	4.80	-
AV	2.4838G	44.48	54.00	-9.52	12.28	3	Horizontal	29	2.87	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2480MHz_TX

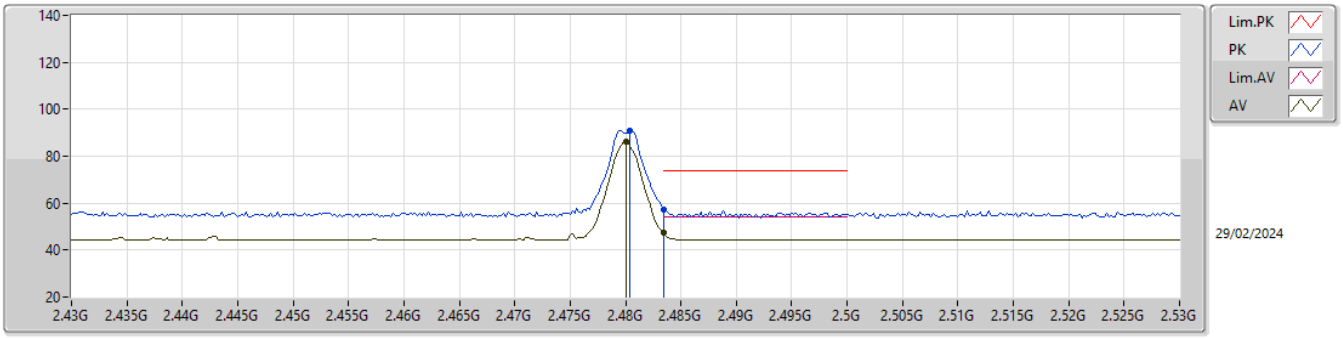


EUT Y_1TX
Setting Default
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4806G	92.73	Inf	-Inf	60.54	3	Vertical	72	2.86	-	27.40	4.79	-
AV	2.48G	88.45	Inf	-Inf	56.26	3	Vertical	72	2.86	-	27.40	4.79	-
PK	2.4835G	58.46	74.00	-15.54	26.26	3	Vertical	72	2.86	-	27.40	4.80	-
AV	2.4835G	48.18	54.00	-5.82	15.98	3	Vertical	72	2.86	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2480MHz_TX

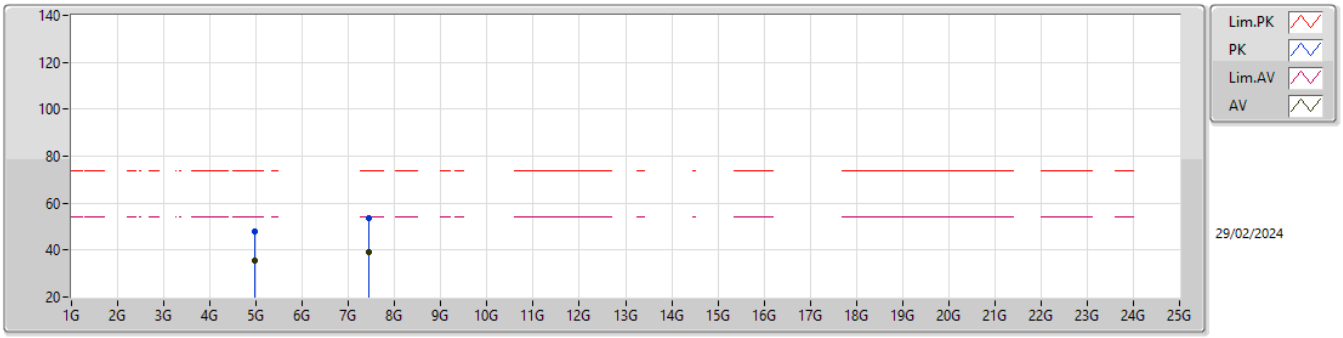


EUT Y_1TX
Setting Default
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4804G	91.04	Inf	-Inf	58.85	3	Horizontal	27	2.83	-	27.40	4.79	-
AV	2.48G	86.44	Inf	-Inf	54.25	3	Horizontal	27	2.83	-	27.40	4.79	-
PK	2.4835G	57.40	74.00	-16.60	25.20	3	Horizontal	27	2.83	-	27.40	4.80	-
AV	2.4835G	47.20	54.00	-6.80	15.00	3	Horizontal	27	2.83	-	27.40	4.80	-

2.4-2.4835GHz_Thread

2480MHz_TX

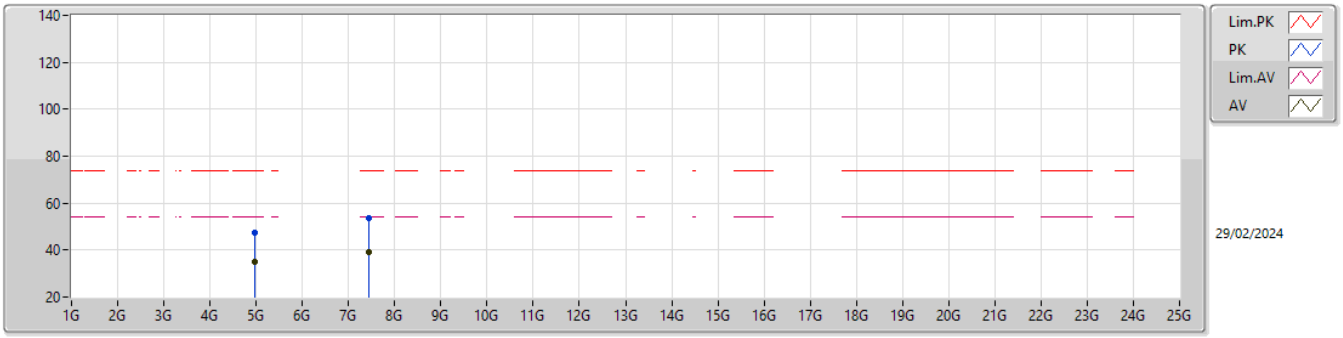


EUT Y_1TX
Setting Default
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.95892G	47.71	74.00	-26.29	40.67	3	Vertical	321	3.00	-	31.54	6.81	31.31
AV	4.95904G	35.68	54.00	-18.32	28.64	3	Vertical	321	3.00	-	31.54	6.81	31.31
PK	7.44654G	53.58	74.00	-20.42	41.30	3	Vertical	185	2.96	-	36.69	8.38	32.79
AV	7.4415G	38.93	54.00	-15.07	26.66	3	Vertical	185	2.96	-	36.68	8.38	32.79

2.4-2.4835GHz_Thread

2480MHz_TX



EUT Y_1TX
Setting Default
06-D-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.95886G	47.40	74.00	-26.60	40.36	3	Horizontal	319	1.02	-	31.54	6.81	31.31
AV	4.95904G	34.85	54.00	-19.15	27.81	3	Horizontal	319	1.02	-	31.54	6.81	31.31
PK	7.44738G	53.43	74.00	-20.57	41.16	3	Horizontal	129	1.80	-	36.69	8.38	32.80
AV	7.44936G	38.95	54.00	-15.05	26.67	3	Horizontal	129	1.80	-	36.70	8.38	32.80