



RADIO TEST REPORT

FCC ID : ZQ6-WL72917
Equipment : AIoT Module
Brand Name : AMPAK Technology Inc, SPARKLAN COMMUNICATIONS INC
Model Name : WL72917
Applicant : AMPAK Technology Inc.
3F, No. 1, Jen Ai Road, Hsinchu Industrial Park, Hsinchu City
30352, Taiwan (R.O.C.)
Manufacturer : BILLIONTON SYSTEMS INC.
No. 21, Sui-Lih Rd., Hsin-Chu City 300, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 05, 2024, and testing was started from Aug. 20, 2024 and completed on Dec. 05, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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TEL : 886-3-656-9065
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Report Template No.: CB-A10_6 Ver1.3



Summary of Test Result

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

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

<For BT-LE(1Mbps)>

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

<For BT-LE(2Mbps)>

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2478	0-38 [39]

Band	Mode	BWch (MHz)	Nant
2.4G	BT-LE(1Mbps)	1	1
2.4G	BT-LE(500Kb/s)	1	1
2.4G	BT-LE(125Kb/s)	1	1
2.4G	BT-LE(2Mbps)	2	1

Note:

- ♦ Bluetooth LE uses a GFSK modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Cable loss (dB)	Net Gain (dBi)	Equip EUT
1	1	SparkLAN	AD-305N	Dipole	Reverse SMA	5.00	0.4	4.60	2
2		SparkLAN	AD-103AG	Dipole	Reverse SMA	2.02	0.4	1.62	2
3		SparkLAN	AD-301N	Dipole	Reverse SMA	4.40	0.4	4.00	2
4		SparkLAN	AD-302N	Dipole	Reverse SMA	3.14	0.4	2.74	2
5		SparkLAN	AD-303N	Dipole	Reverse SMA	3.14	0.4	2.74	2
6		Pulse	TZ2412W	Dipole	Reverse SMA	3.60	0.4	3.20	2
7	-	Pulse	ANT8010LL04R2400A	Chip	N/A	0.70	-	0.70	1
8	1	TSKY	A8-A006-00XXX	PIFA	I-PEX	1.02	-	1.02	2
9	-	TSKY	A8-A006-00739	PIFA	I-PEX	1.02	-	1.02	2

Note 1: The above information was declared by manufacturer.

Note 2:

For RF Conducted:

only the Ant.1 highest antenna gain has been tested and recorded in the test report.

For Other tests:

Only the highest gain antenna (Ant.1, Ant.7 and Ant.8) were selected from each different types of antenna to test and record in report.

<WLAN 2.4GHz>**For IEEE 802.11b/g/n/ax (1TX/1RX):**

Only Port 1 can be used as transmitting antenna.

<Bluetooth> (1TX/1RX):

Only Port 1 can be used as transmitting antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.879	0.56	2.198m	1k
BT-LE(2Mbps)	0.456	3.41	1.141m	1k

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	SUDT AccessPort v1.37		
Support Mode	☒ LE 1M PHY: 1 Mb/s		
	☒ LE Coded PHY (S=2): 500 Kb/s		
	☒ LE Coded PHY (S=8): 125 Kb/s		
	☒ LE 2M PHY: 2 Mb/s		

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Brand Name	Model Name	Description
AMPAK Technology Inc	WL72917	All the brands are identical, the difference brand for difference served as marketing strategy.
SPARKLAN COMMUNICATIONS INC		

Note 1: From the above, brand: AMPAK Technology Inc was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for EUT Information

EUT	Equip Antenna
1	Ant. 7
2	Ant. 1~6 (with I-PEX cable), Ant. 8~9

Note 1:

For RF Conducted:

"EUT 2 + Ant. 1 with I-PEX cable" was selected as representative EUT for the test and its data was recorded in this report.

For Other tests:

Only the highest gain antenna EUT 2 + Ant. 1 with I-PEX cable, EUT 1 + Ant. 7 and EUT 2 + Ant. 8, were selected from each different types of antenna to test and record 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 ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)				
(TAF: 3787) TEL: 886-3-656-9065 FAX: 886-3-656-9085				
Test site Designation No. TW3787 with FCC.				
Conformity Assessment Body Identifier (CABID) TW3787 with ISED.				

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Richard Pai	22.6~24.6 / 63~65	Nov. 29, 2024~ Dec. 02, 2024
Radiated (Below 1GHz)	03CH01-CB	Black Lu	21.3-22.6 / 54-59	Aug. 20, 2024~ Nov. 29, 2024
Radiated (Above 1GHz)	03CH01-CB 03CH03-CB 03CH04-CB	Black Lu	21.3-22.6 / 54-59 21.8-22.9 / 55-58 22.7-23.8 / 56-59	Aug. 20, 2024~ Nov. 29, 2024
AC Conduction	CO01-CB	Bob Chang	22~23 / 57~58	Dec. 03, 2024~ Dec. 05, 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)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
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	2.1 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
BT-LE(1Mbps)
2402MHz
2440MHz
2480MHz
BT-LE(2Mbps)
2402MHz
2440MHz
2478MHz

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	WLAN 2.4GHz: EUT 1 + Ant. 7
2	WLAN 2.4GHz: EUT 2 + Ant. 1 with I-PEX cable
3	WLAN 2.4GHz: EUT 2 + Ant. 8
4	Bluetooth: EUT 1 + Ant. 7
5	Bluetooth: EUT 2 + Ant. 1 with I-PEX cable
6	Bluetooth: EUT 2 + Ant. 8
For operating mode 3 is the worst case and it was record in this test report.	

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

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
<For WLAN 2.4GHz> After evaluating, the worst case was found at as below for Emissions in Restricted Frequency Bands above 1GHz. Thus, the measurement will follow this same test configuration. <For Bluetooth> The EUT was performed at X axis, Y axis and Z axis position. EUT 1 in Y axis + Ant. 7, EUT 2 in X axis + Ant. 1 with I-PEX cable and EUT 2 in Z axis + Ant. 8 has been evaluated to be the worst case at Restricted Frequency Bands above 1GHz; thus, the measurement will follow this same test configuration	
1	WLAN 2.4GHz: EUT 1 in X axis + Ant. 7
2	WLAN 2.4GHz: EUT 2 in X axis + Ant. 1 with I-PEX cable
3	WLAN 2.4GHz: EUT 2 in X axis + Ant. 8
4	Bluetooth: EUT 1 in Y axis + Ant. 7
5	Bluetooth: EUT 2 in X axis + Ant. 1 with I-PEX cable
6	Bluetooth: EUT 2 in Z axis + Ant. 8
For operating mode 3 is the worst case and it was record 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 as below:	
1	EUT 1 + Ant. 7 (Bandedge at Z axis / Harmonic at Y axis)
2	EUT 2 + Ant. 1 with I-PEX cable (Bandedge at X axis / Harmonic at X axis)
3	EUT 2 + Ant. 8 (Bandedge at X axis / Harmonic at Z axis)

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

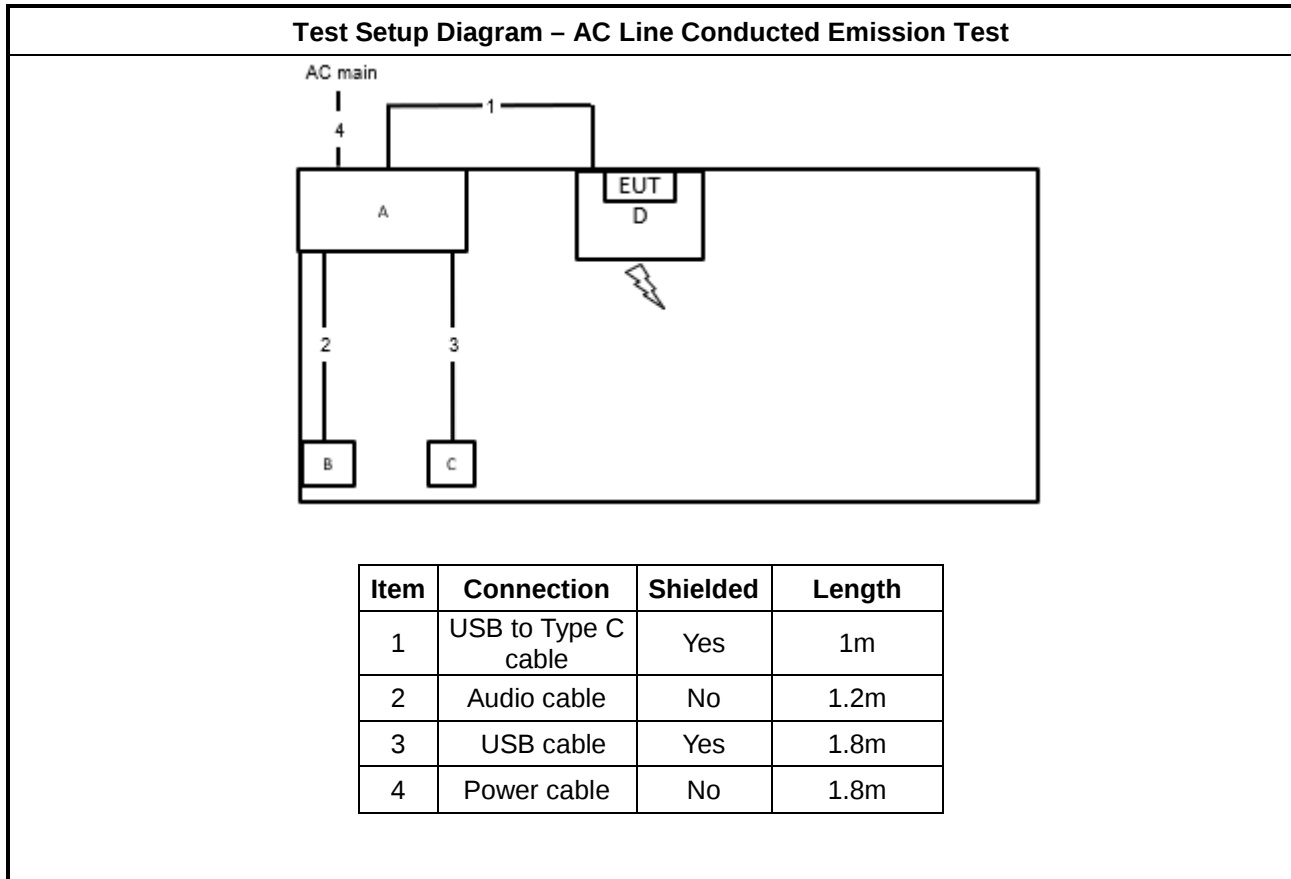
For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	PP13S	N/A
B	Earphone	e-Power	GT-02	N/A
C	Mouse	acer	MOJFUO	N/A
D	Fixture	AMPAK	WL72917_EVB_S_V00	N/A

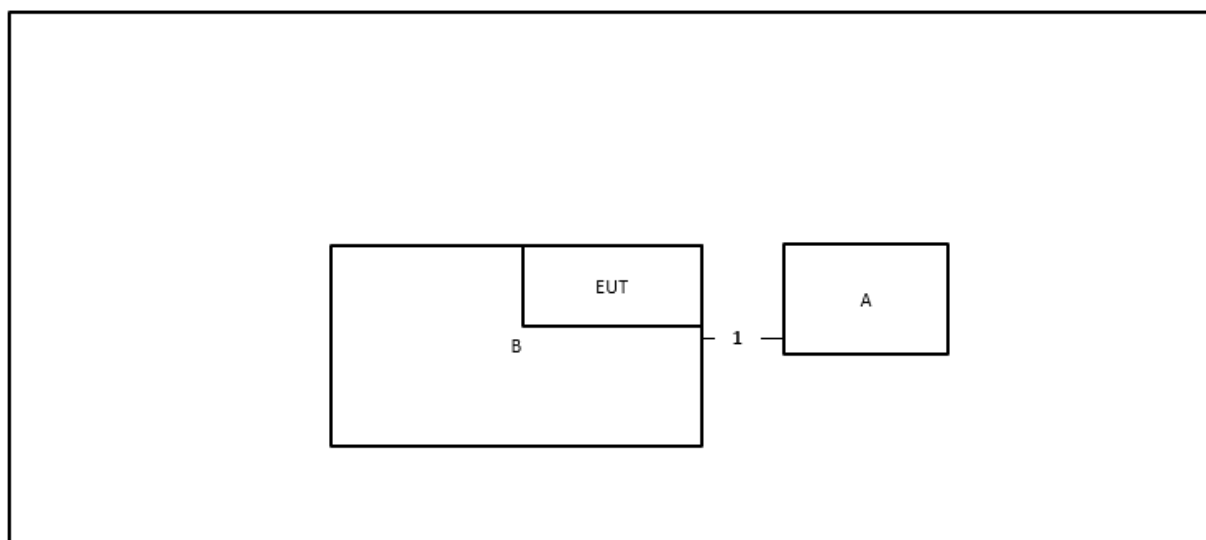
For Radiated and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Fixture	AMPAK	WL72917_EVB_S_V00	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	USB to Type C cable	Yes	1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

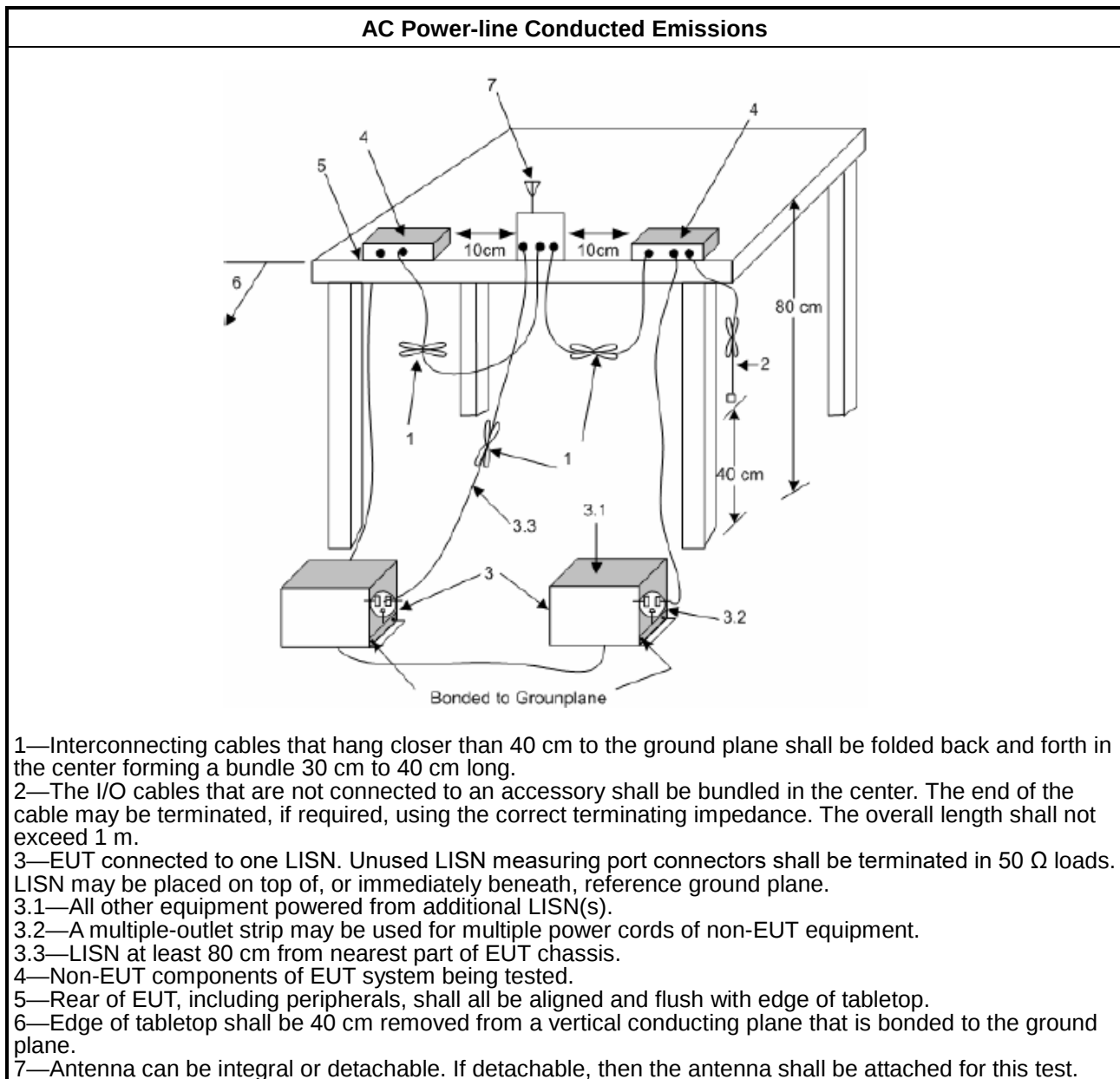
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



1.1.1. 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

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

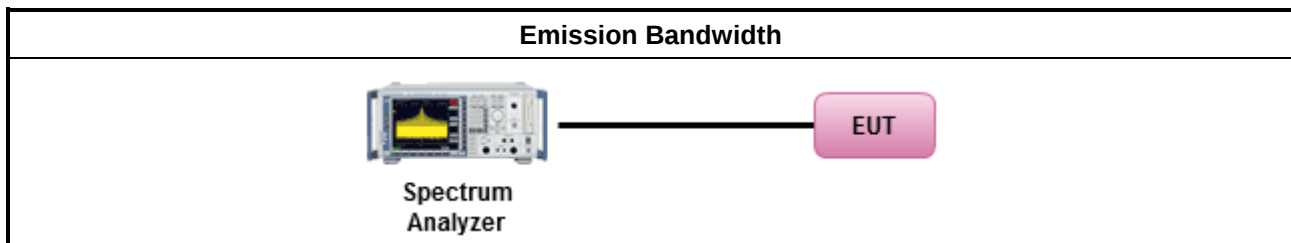
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

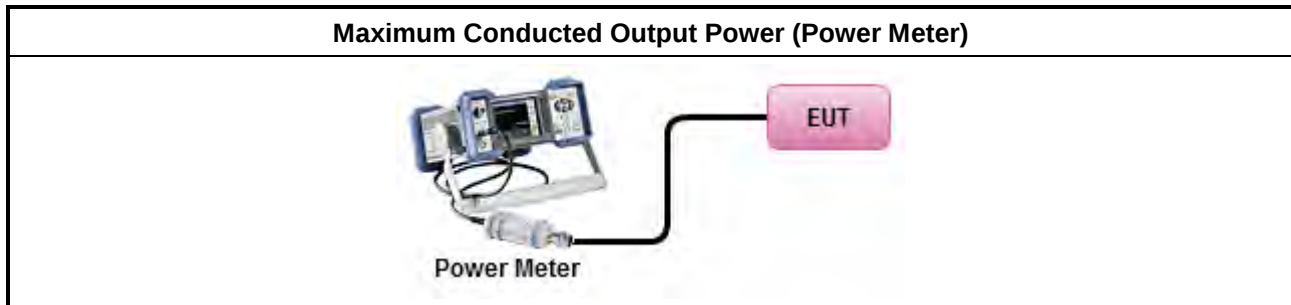
3.3.2 Measuring Instruments

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

**3.3.3 Test Procedures**

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

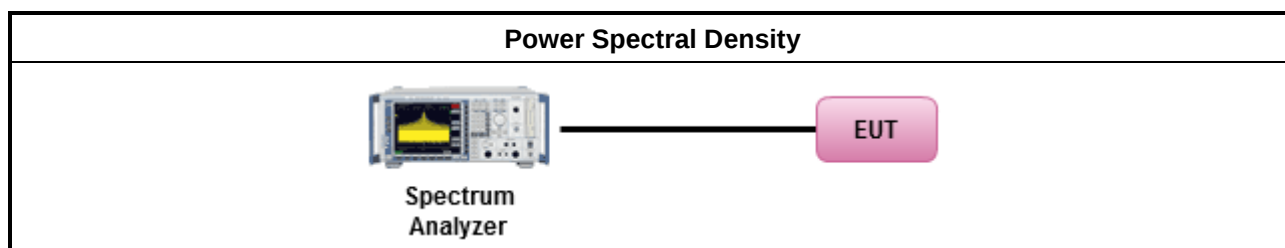
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle $\geq 98\%$ or external video / power trigger]
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☐	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add $10 \log(N)$ dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with $10 \log(N)$. Or each transmit chains shall be add $10 \log(N)$ to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

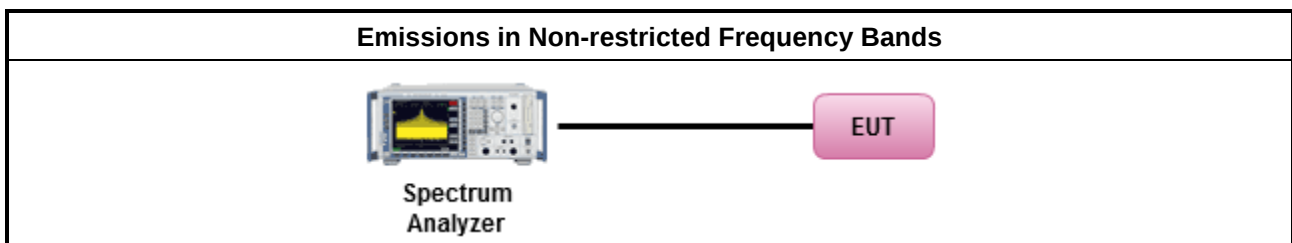
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

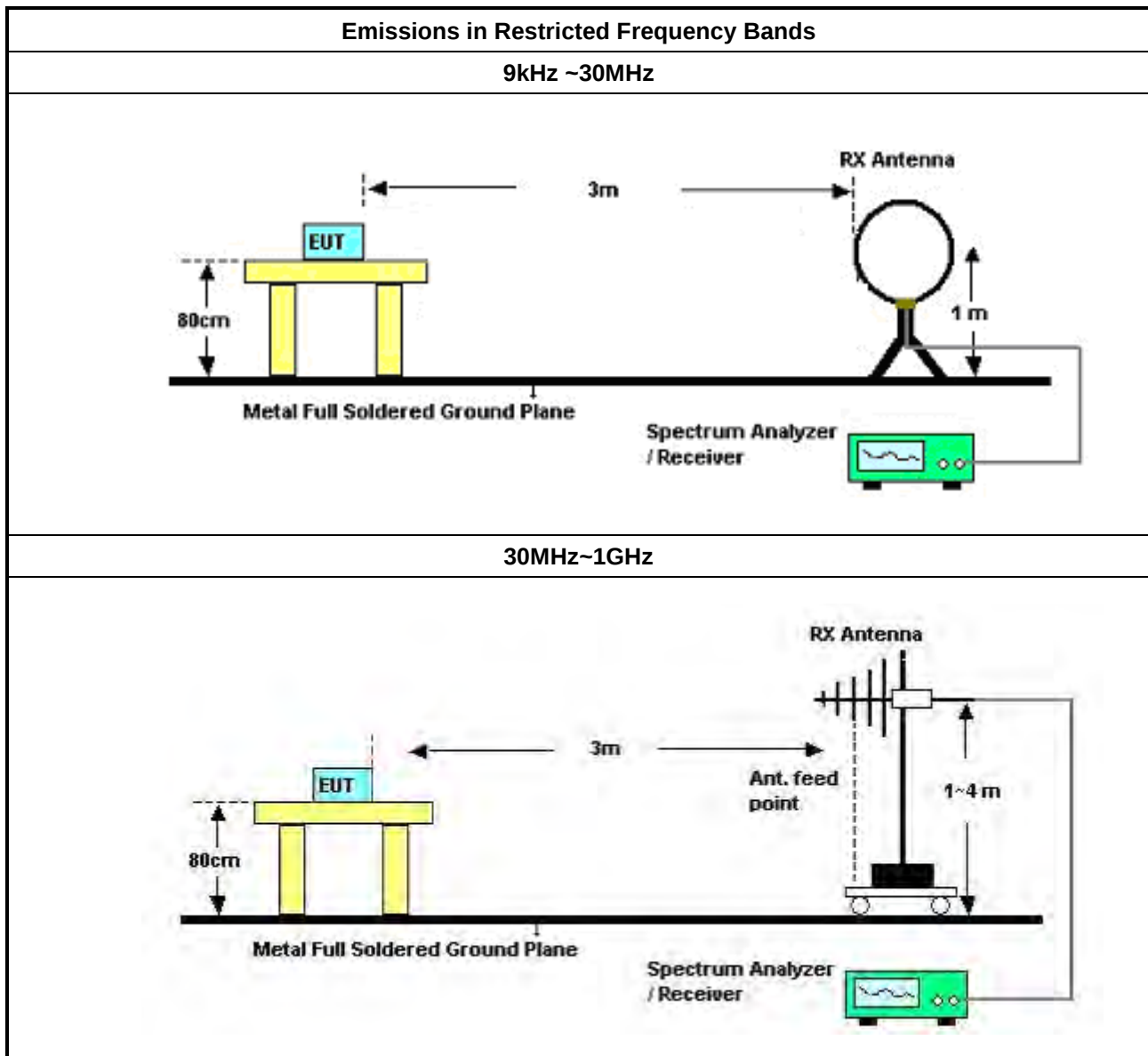
3.6.2 Measuring Instruments

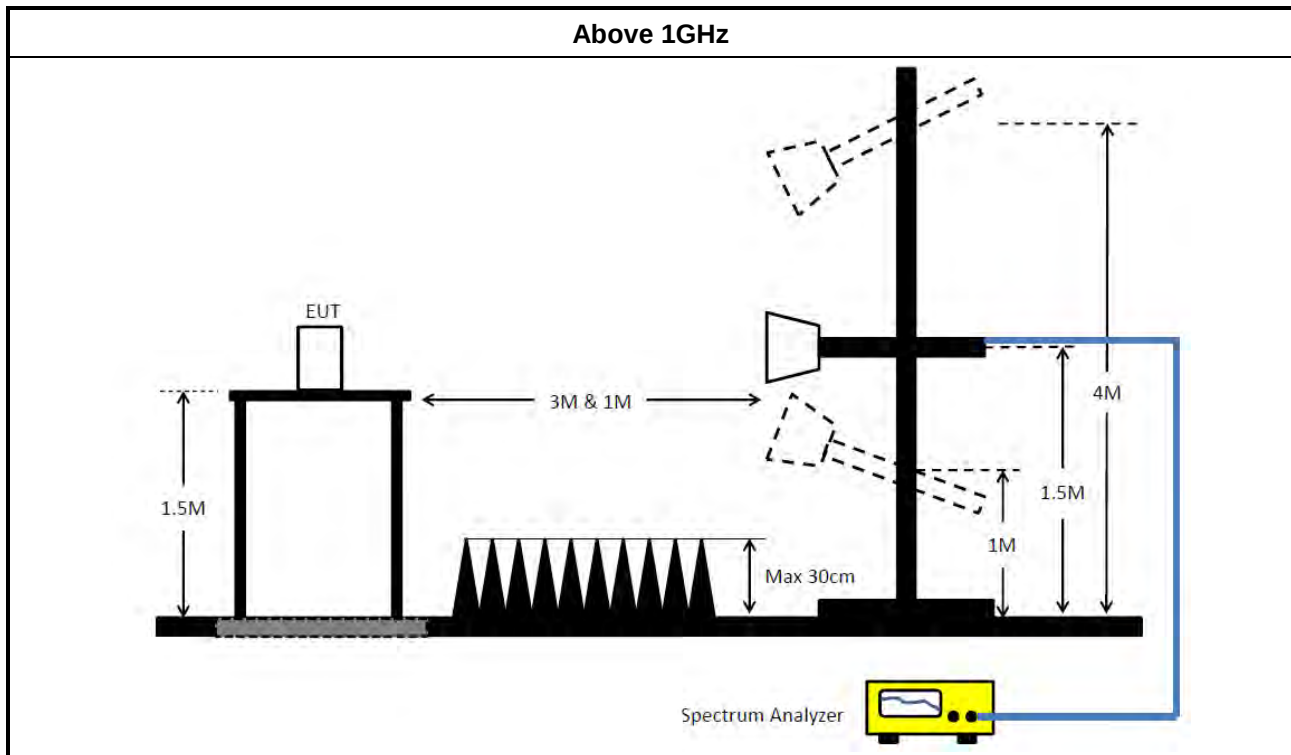
Refer a test equipment and calibration data table in this test report.

**3.6.3 Test Procedures**

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 04, 2024	May 03, 2025	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)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 09, 2024	Jul. 08, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 22, 2024	Jun. 21, 2025	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH1840	20230109-3	18~40GHz	Jan. 12, 2024	Jan. 11, 2025	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 2025	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 20, 2023	Oct. 19, 2024	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-31+32	30 MHz ~ 1 GHz	Aug. 02, 2024	Aug. 01, 2025	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 03, 2024	May 02, 2025	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 24, 2024	Jan. 23, 2025	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 09, 2024	Jul. 08, 2025	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH1840	20230109-3	18~40GHz	Jan. 12, 2024	Jan. 11, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Feb. 29, 2024	Feb. 28, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Feb. 29, 2024	Feb. 28, 2025	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 22, 2024	Feb. 21, 2025	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 09, 2024	Jul. 08, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 17, 2024	Jan. 16, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH1840	20230109-3	18~40GHz	Jan. 12, 2024	Jan. 11, 2025	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 19, 2024	Mar. 18, 2025	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2024	May 26, 2025	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Mar. 01, 2024	Feb. 28, 2025	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	MY45100745	50MHz~18GHz	Jul. 12, 2024	Jul. 11, 2025	Conducted (TH01-CB)
Test Software	SPORTON	SENSE-15247_DTS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



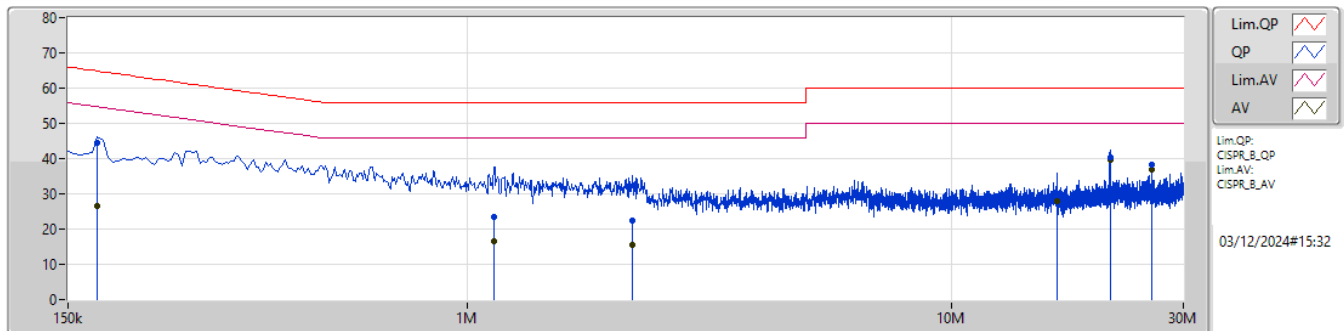
Conducted Emissions at Powerline

Appendix A

Summary

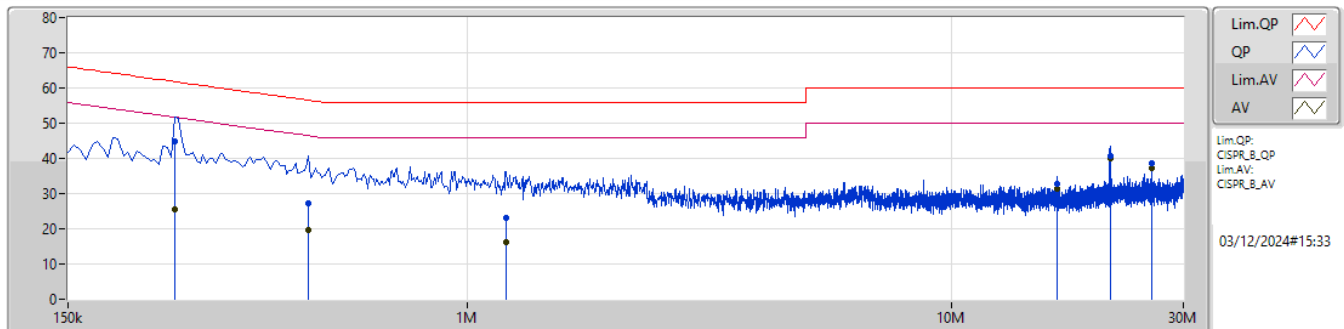
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	21.17M	39.95	50.00	-10.05	Neutral

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	172.5k	44.47	64.83	-20.36	10.04	Line	-	34.43	0.04	0.07	9.93						
AV	172.5k	26.47	54.83	-28.36	10.04	Line	-	16.43	0.04	0.07	9.93						
QP	1.136M	23.56	56.00	-32.44	10.29	Line	-	13.27	0.07	0.10	10.12						
AV	1.136M	16.62	46.00	-29.38	10.29	Line	-	6.33	0.07	0.10	10.12						
QP	2.189M	22.49	56.00	-33.51	10.18	Line	-	12.31	0.10	0.14	9.94						
AV	2.189M	15.57	46.00	-30.43	10.18	Line	-	5.39	0.10	0.14	9.94						
QP	16.467M	29.89	60.00	-30.11	10.48	Line	-	19.41	0.29	0.26	9.93						
AV	16.467M	27.95	50.00	-22.05	10.48	Line	-	17.47	0.29	0.26	9.93						
QP	21.17M	40.33	60.00	-19.67	10.58	Line	-	29.75	0.32	0.32	9.94						
AV	21.17M	39.56	50.00	-10.44	10.58	Line	"Worst"	28.98	0.32	0.32	9.94						
QP	25.872M	38.12	60.00	-21.88	10.61	Line	-	27.51	0.34	0.31	9.96						
AV	25.872M	36.95	50.00	-13.05	10.61	Line	-	26.34	0.34	0.31	9.96						

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	249k	44.89	61.79	-16.90	10.12	Neutral	-	34.77	0.06	0.08	9.98						
AV	249k	25.43	51.79	-26.36	10.12	Neutral	-	15.31	0.06	0.08	9.98						
QP	469.5k	27.22	56.52	-29.30	10.24	Neutral	-	16.98	0.06	0.10	10.08						
AV	469.5k	19.53	46.52	-26.99	10.24	Neutral	-	9.29	0.06	0.10	10.08						
QP	1.203M	23.17	56.00	-32.83	10.29	Neutral	-	12.88	0.09	0.10	10.10						
AV	1.203M	16.18	46.00	-29.82	10.29	Neutral	-	5.89	0.09	0.10	10.10						
QP	16.463M	32.78	60.00	-27.22	10.47	Neutral	-	22.31	0.28	0.26	9.93						
AV	16.463M	31.43	50.00	-18.57	10.47	Neutral	-	20.96	0.28	0.26	9.93						
QP	21.17M	40.69	60.00	-19.31	10.58	Neutral	-	30.11	0.32	0.32	9.94						
AV	21.17M	39.95	50.00	-10.05	10.58	Neutral	"Worst"	29.37	0.32	0.32	9.94						
QP	25.872M	38.50	60.00	-21.50	10.65	Neutral	-	27.85	0.38	0.31	9.96						
AV	25.872M	37.31	50.00	-12.69	10.65	Neutral	-	26.66	0.38	0.31	9.96						

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	802.5k	1.228M	1M23F1D	667.5k	1.215M
BT-LE(2Mbps)	1.55M	2.458M	2M46F1D	935k	2.423M

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

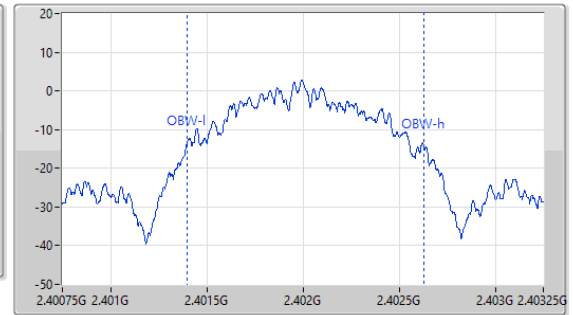
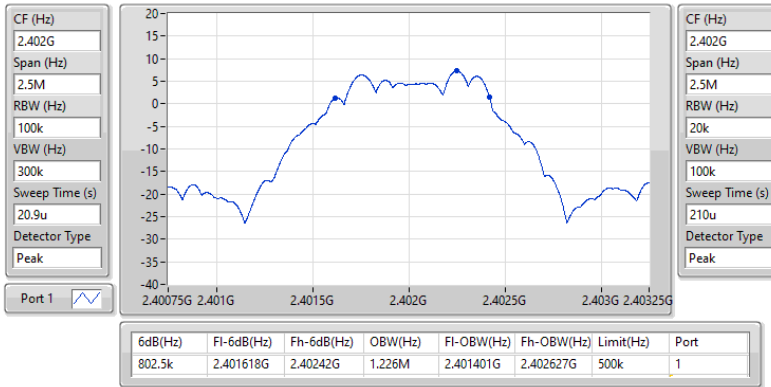
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	802.5k	1.226M
2440MHz	Pass	500k	667.5k	1.228M
2480MHz	Pass	500k	778.75k	1.215M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.51M	2.449M
2440MHz	Pass	500k	935k	2.423M
2478MHz	Pass	500k	1.55M	2.458M

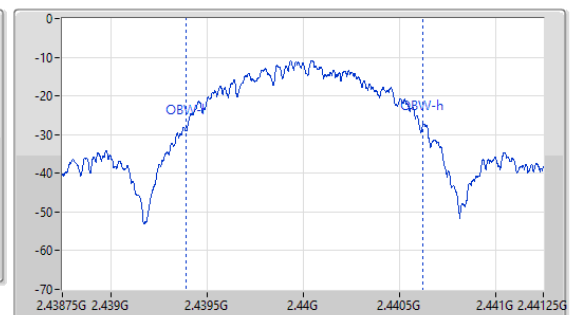
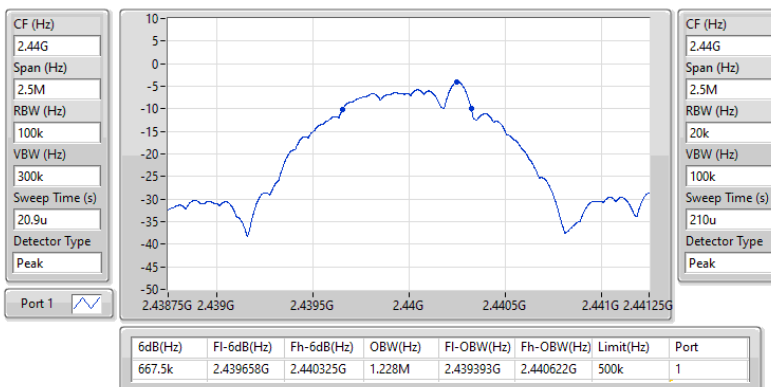
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2402MHz

29/11/2024

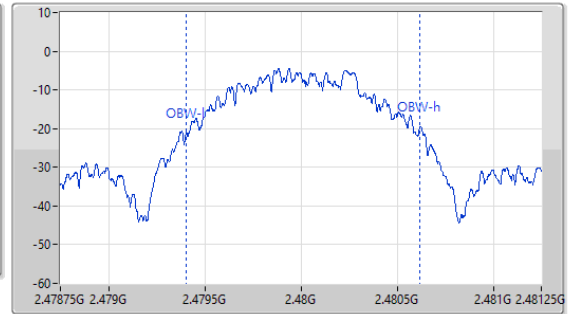
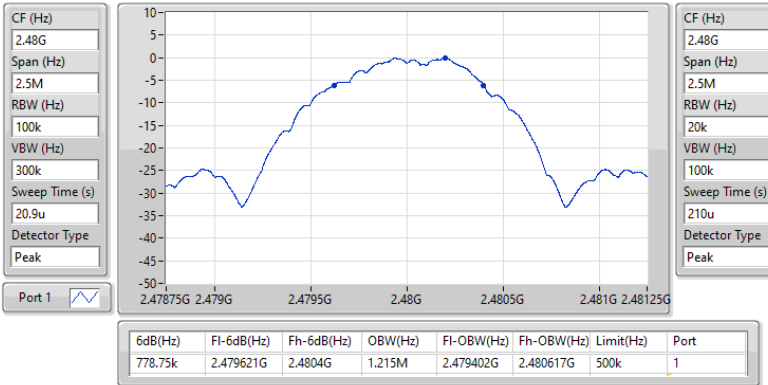

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

29/11/2024

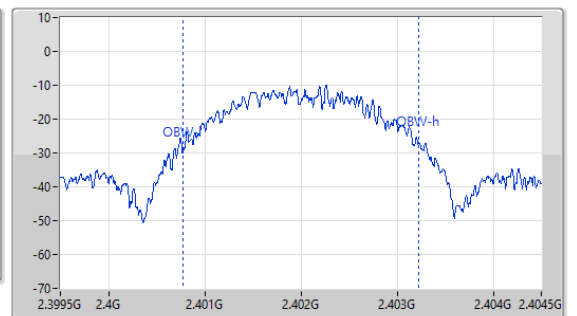
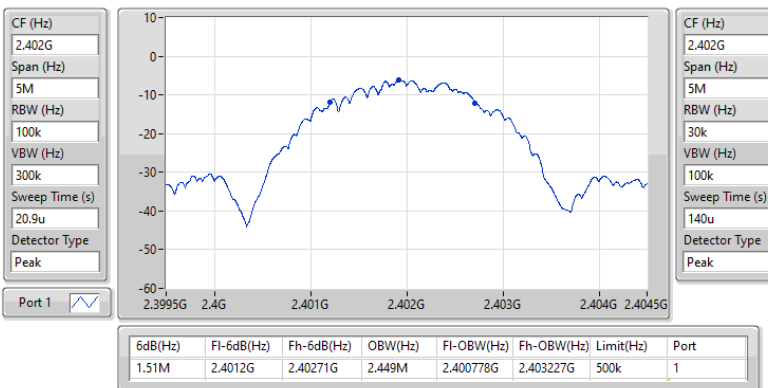


2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2480MHz

29/11/2024

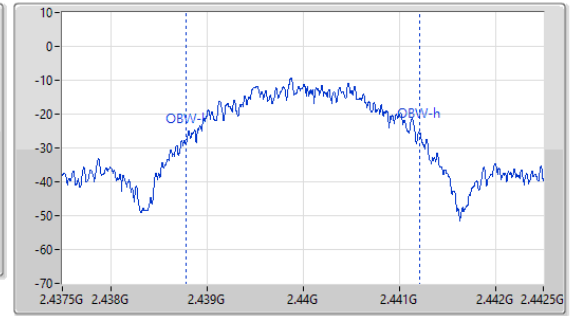
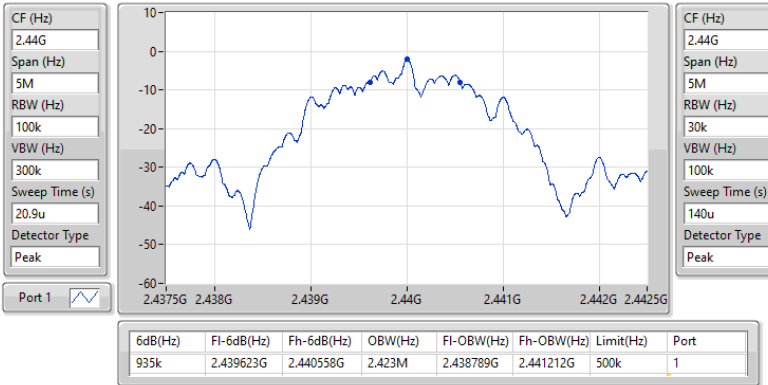

2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2402MHz

02/12/2024

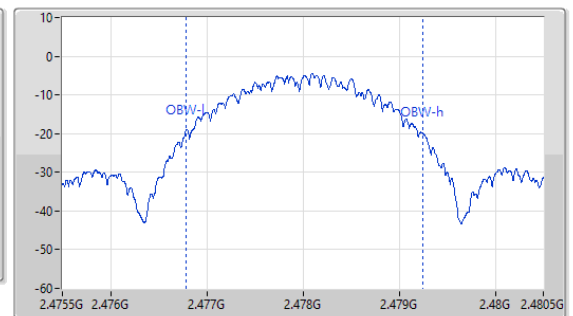
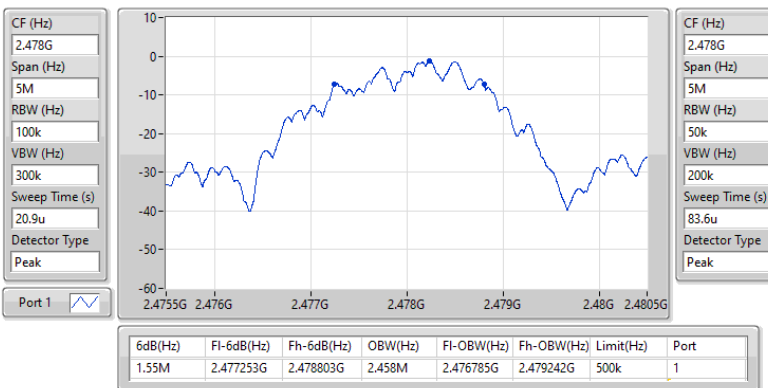


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2440MHz

02/12/2024


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2478MHz

02/12/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.50	0.00562
BT-LE(2Mbps)	3.09	0.00204



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	4.60	7.50	30.00
2440MHz	Pass	4.60	-3.71	30.00
2480MHz	Pass	4.60	2.30	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	4.60	-1.03	30.00
2440MHz	Pass	4.60	-1.08	30.00
2478MHz	Pass	4.60	3.09	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-6.13
BT-LE(2Mbps)	-14.54

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	4.60	-6.13	8.00
2440MHz	Pass	4.60	-17.59	8.00
2480MHz	Pass	4.60	-11.47	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	4.60	-16.95	8.00
2440MHz	Pass	4.60	-17.30	8.00
2478MHz	Pass	4.60	-14.54	8.00

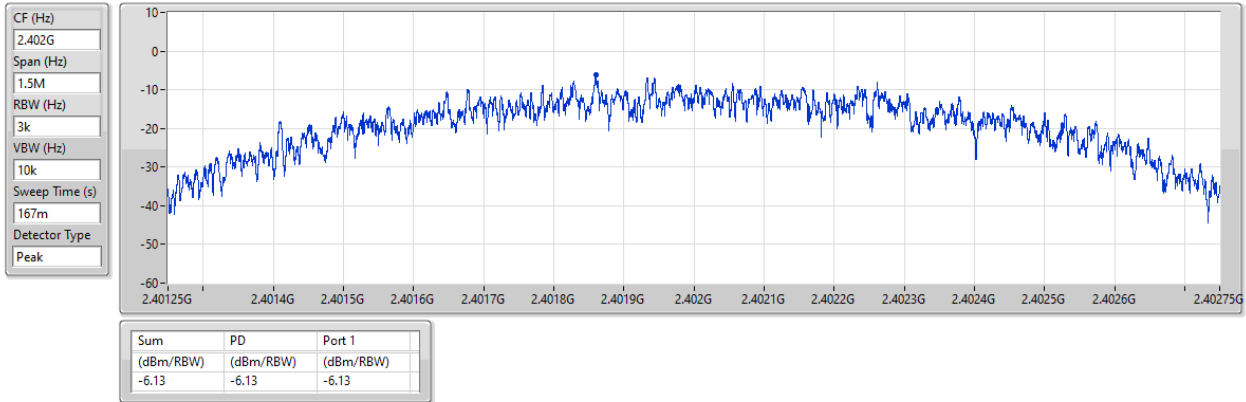
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

29/11/2024

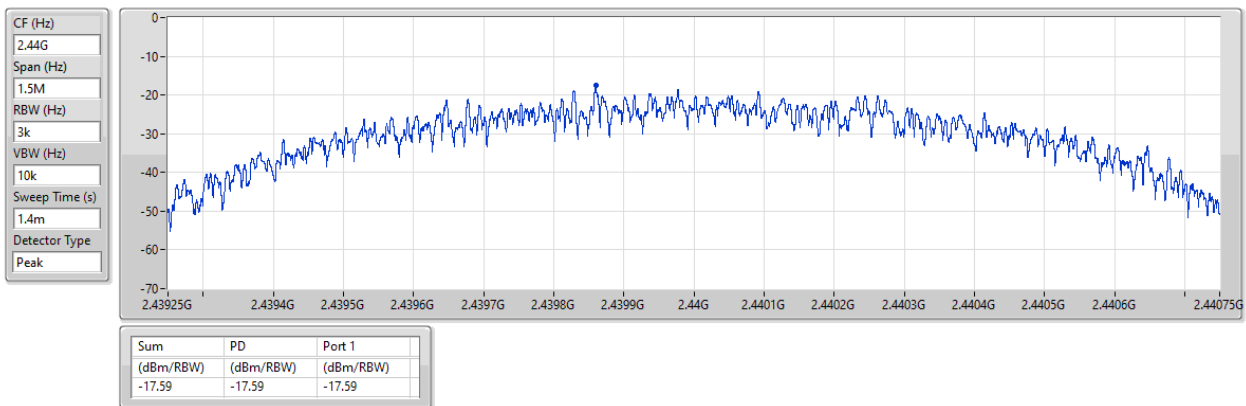


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

29/11/2024

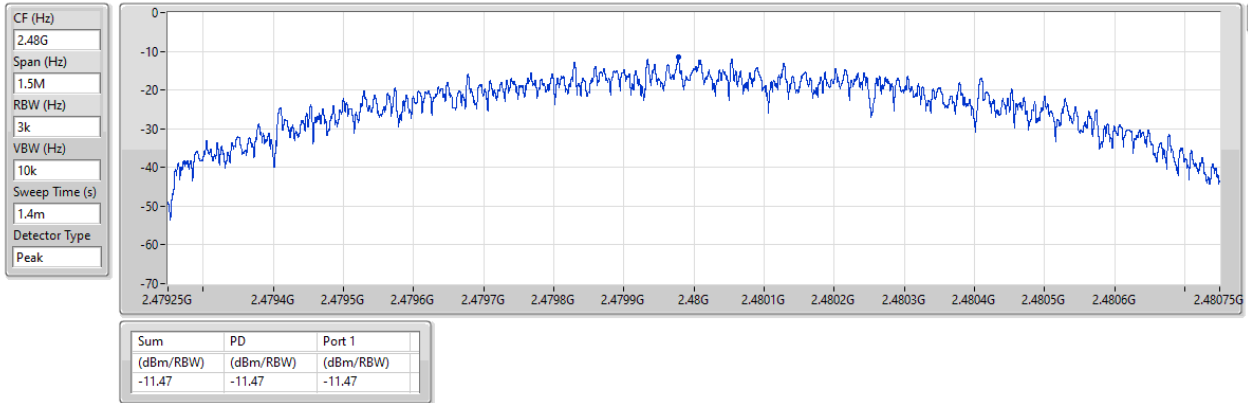


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

29/11/2024

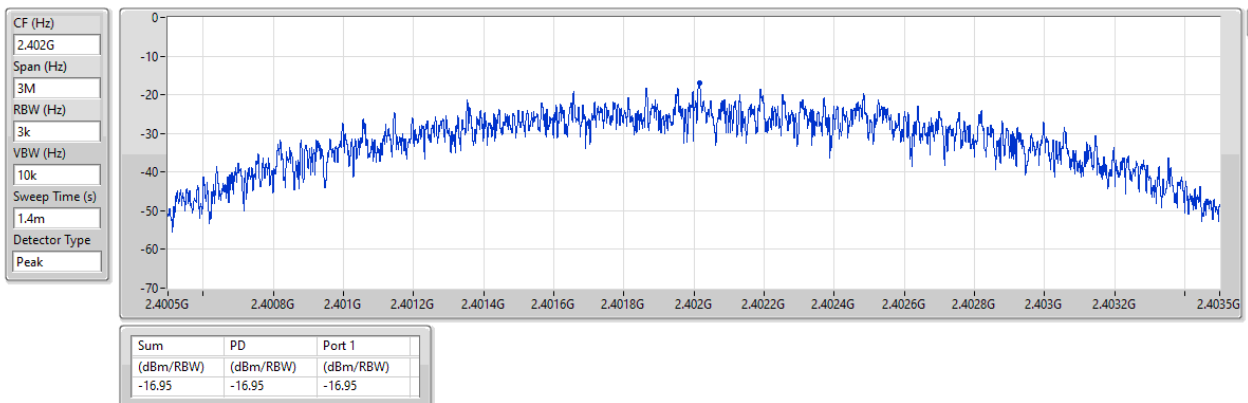


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

02/12/2024

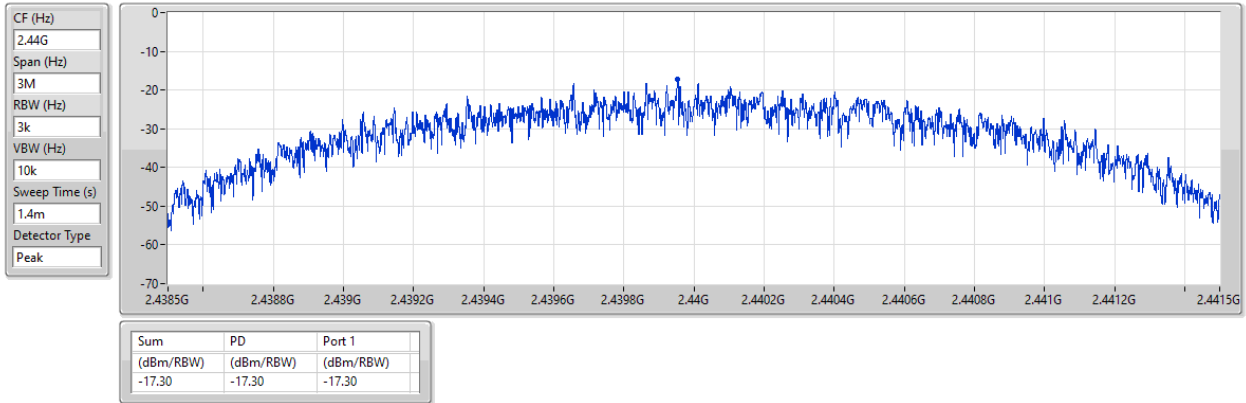


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

02/12/2024

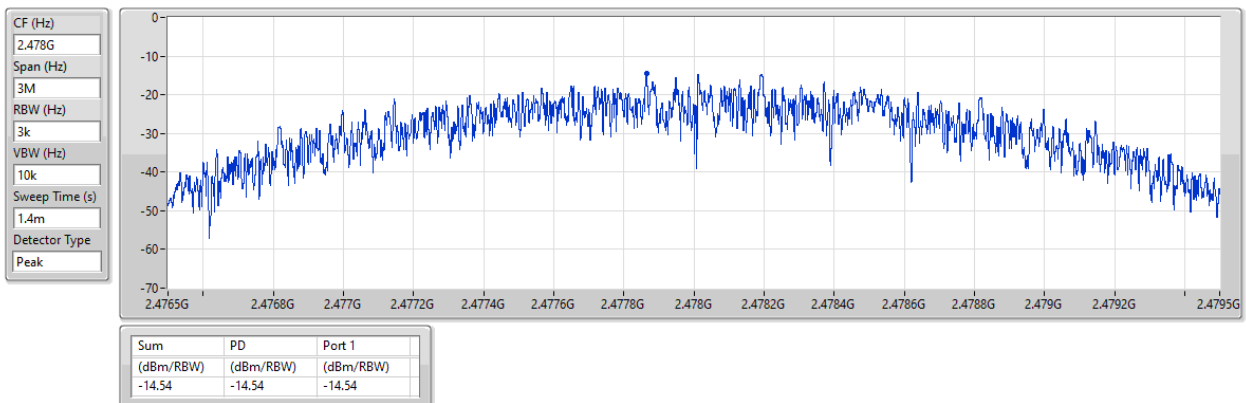


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2478MHz

02/12/2024





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40167G	7.40	-22.60	1.75373G	-54.04	2.39996G	-40.29	2.4G	-38.75	2.50234G	-55.84	21.67333G	-47.70	1
BT-LE(2Mbps)	Pass	2.47816G	3.11	-26.89	61.73M	-61.62	2.4G	-28.03	2.4G	-30.27	2.50022G	-60.78	21.51867G	-54.33	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	7.40	-22.60	1.75373G	-54.04	2.39996G	-40.29	2.4G	-38.75	2.50234G	-55.84	21.67333G	-47.70	1
2440MHz	Pass	2.40167G	7.40	-22.60	35.88M	-53.67	2.3998G	-54.73	2.4G	-56.83	2.50174G	-55.18	21.62834G	-48.10	1
2480MHz	Pass	2.40167G	7.40	-22.60	2.07098G	-53.99	2.39852G	-54.85	2.4G	-56.56	2.50046G	-48.83	21.97141G	-48.53	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47816G	3.11	-26.89	61.73M	-61.62	2.4G	-28.03	2.4G	-30.27	2.50022G	-60.78	21.51867G	-54.33	1
2440MHz	Pass	2.47816G	3.11	-26.89	2.03808G	-60.88	2.397G	-57.44	2.4G	-60.04	2.5015G	-60.89	21.50742G	-54.63	1
2478MHz	Pass	2.47816G	3.11	-26.89	2.16145G	-61.36	2.39004G	-59.14	2.4G	-62.74	2.50094G	-50.07	21.65083G	-54.48	1

2.4-2.4835GHz_BT-LE(1Mbps)

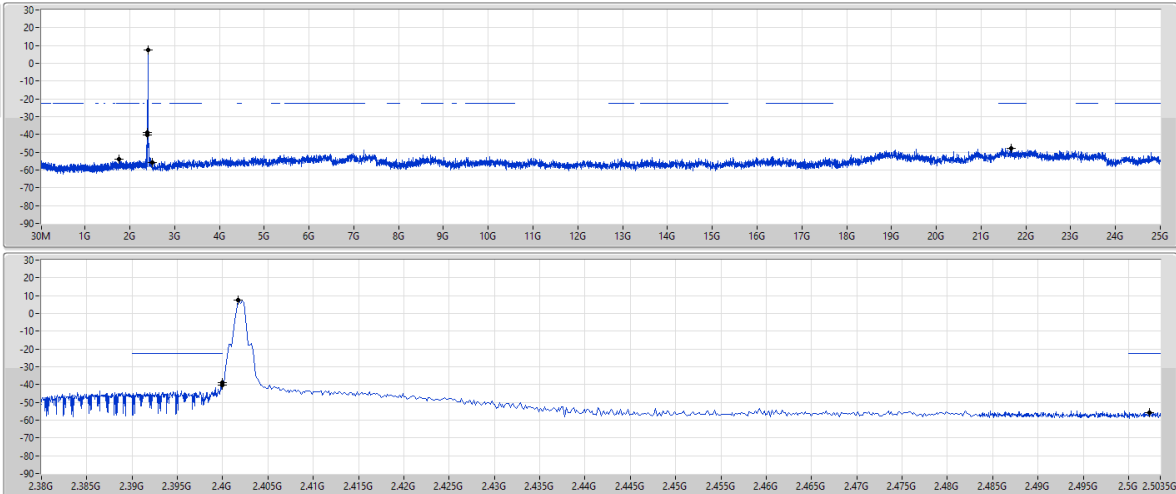
CSEndB-DTS

2402MHz

29/11/2024

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

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40167G	7.40	-22.60	1.75373G	-54.04	2.39996G	-40.29	2.4G	-38.75	2.50234G	-55.84	21.67333G	-47.70	1

2.4-2.4835GHz_BT-LE(1Mbps)

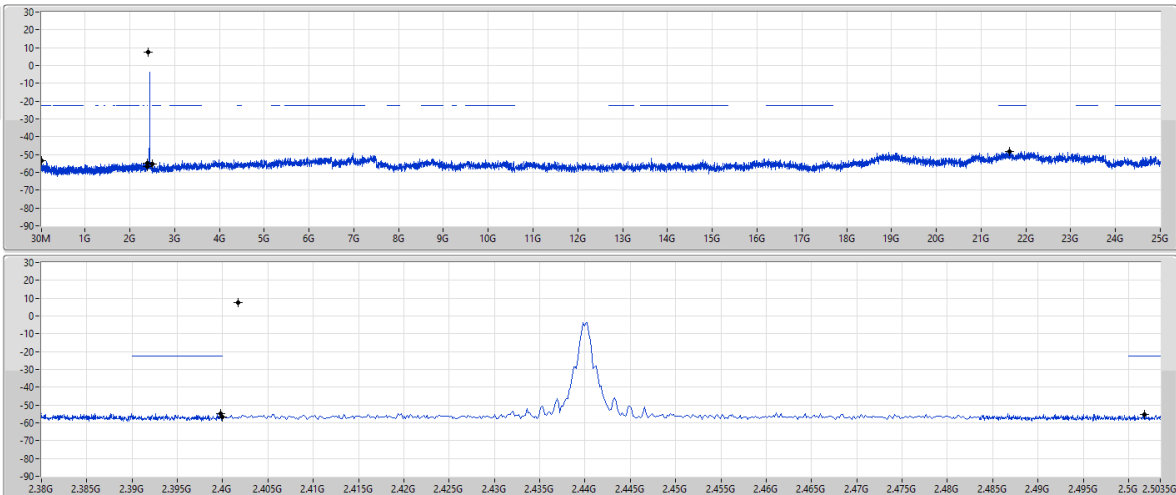
CSEndB-DTS

2440MHz

29/11/2024

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

Port 1



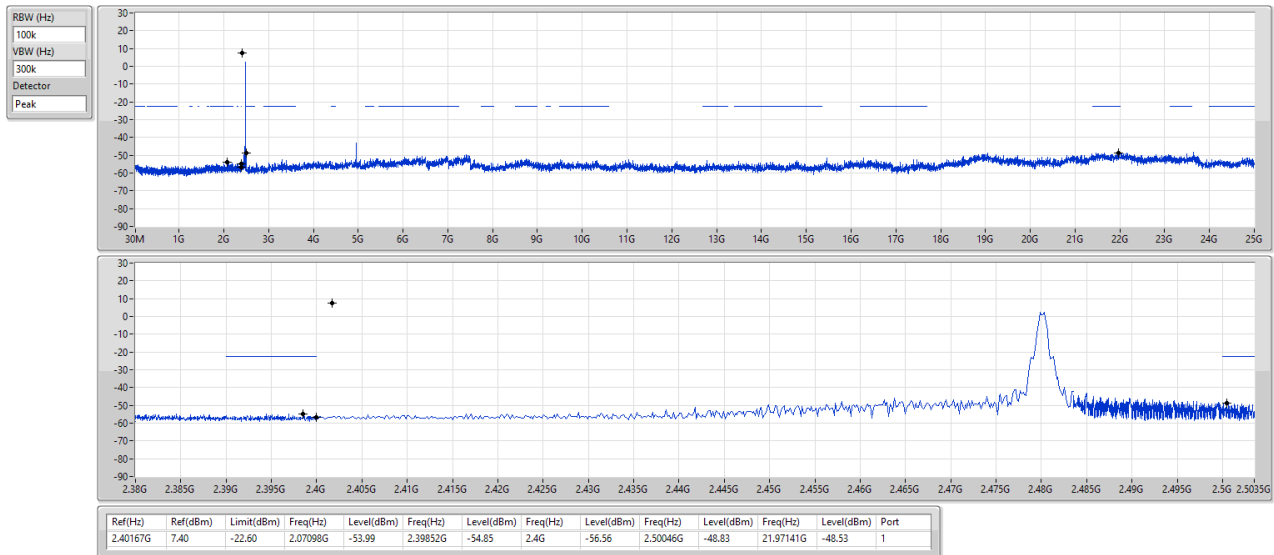
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40167G	7.40	-22.60	35.88M	-53.67	2.3998G	-54.73	2.4G	-56.83	2.50174G	-55.18	21.62834G	-48.10	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2480MHz

29/11/2024

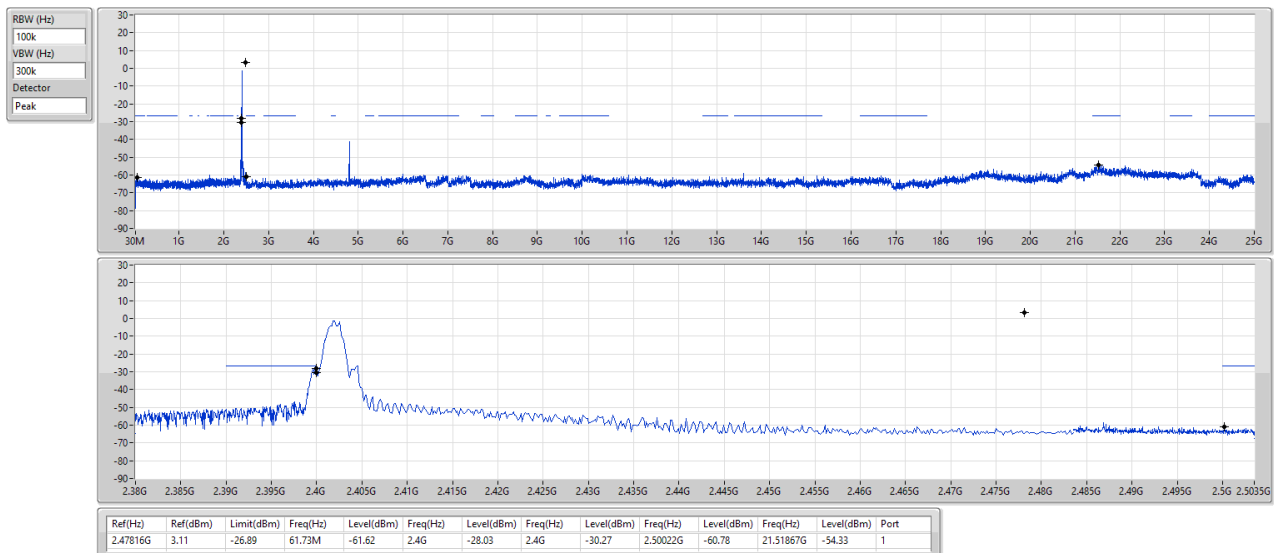


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

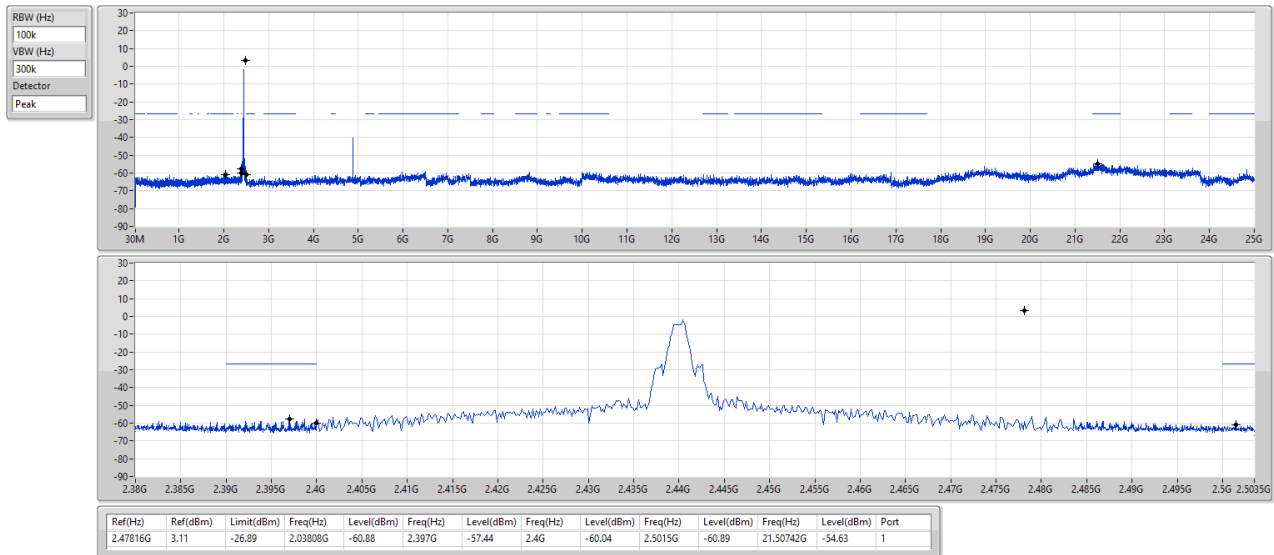
02/12/2024



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

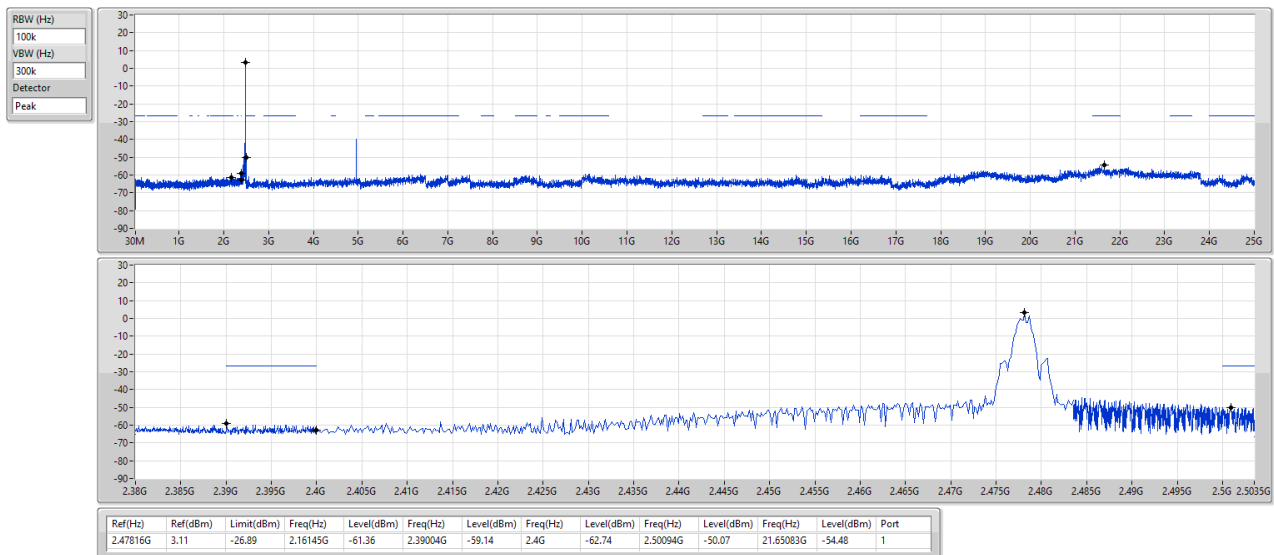
2440MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2478MHz





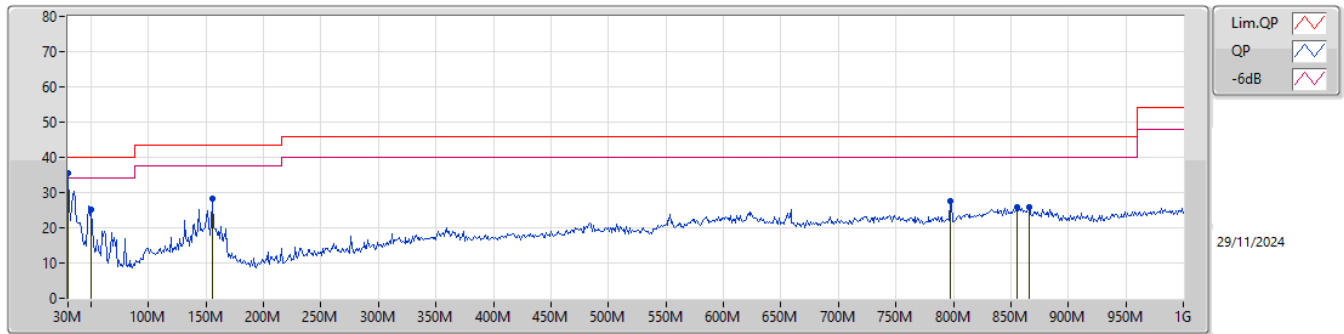
Radiated Emissions below 1GHz

Appendix F.1

Summary

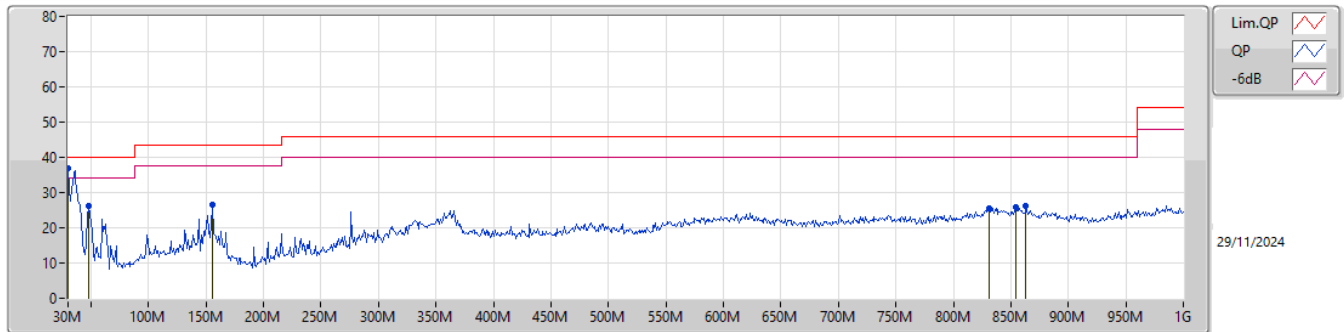
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	30M	36.99	40.00	-3.01	Horizontal

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	30M	35.37	40.00	-4.63	-19.60	3	Vertical	73	1.00	"Worst"	54.97	23.96	0.89	44.45		
PK	50.37M	25.24	40.00	-14.76	-29.71	3	Vertical	261	1.00	-	54.95	13.99	1.14	44.84		
PK	156.1M	28.26	43.50	-15.24	-26.49	3	Vertical	75	1.00	-	54.75	16.04	2.01	44.54		
PK	797.27M	27.53	46.00	-18.47	-12.73	3	Vertical	194	1.00	-	40.26	26.04	4.89	43.66		
PK	855.47M	25.88	46.00	-20.12	-12.28	3	Vertical	275	1.00	-	38.16	26.34	4.99	43.61		
PK	866.14M	25.77	46.00	-20.23	-12.16	3	Vertical	126	1.00	-	37.93	26.40	5.03	43.59		

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	30M	36.99	40.00	-3.01	-19.60	3	Horizontal	359	1.00	"Worst"	56.59	23.96	0.89	44.45		
PK	48.43M	26.21	40.00	-13.79	-28.94	3	Horizontal	319	1.00	-	55.15	14.72	1.12	44.78		
PK	156.1M	26.51	43.50	-16.99	-26.49	3	Horizontal	205	1.00	-	53.00	16.04	2.01	44.54		
PK	831.22M	25.64	46.00	-20.36	-12.54	3	Horizontal	78	1.00	-	38.18	26.16	4.94	43.64		
PK	854.5M	25.80	46.00	-20.20	-12.29	3	Horizontal	11	1.00	-	38.09	26.33	4.99	43.61		
PK	863.23M	26.08	46.00	-19.92	-12.20	3	Horizontal	212	1.00	-	38.28	26.38	5.02	43.60		

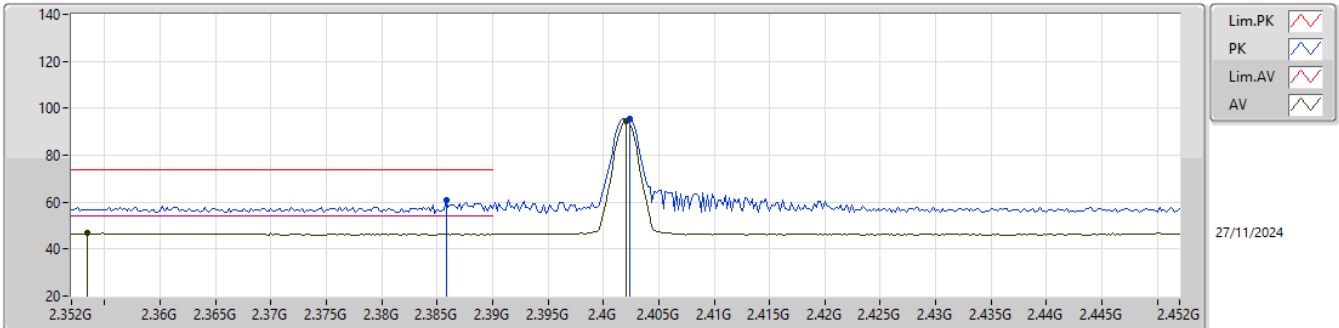


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LF(1Mbps)	Pass	PK	2.4835G	73.78	74.00	-0.22	3	Horizontal	5	1.47	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

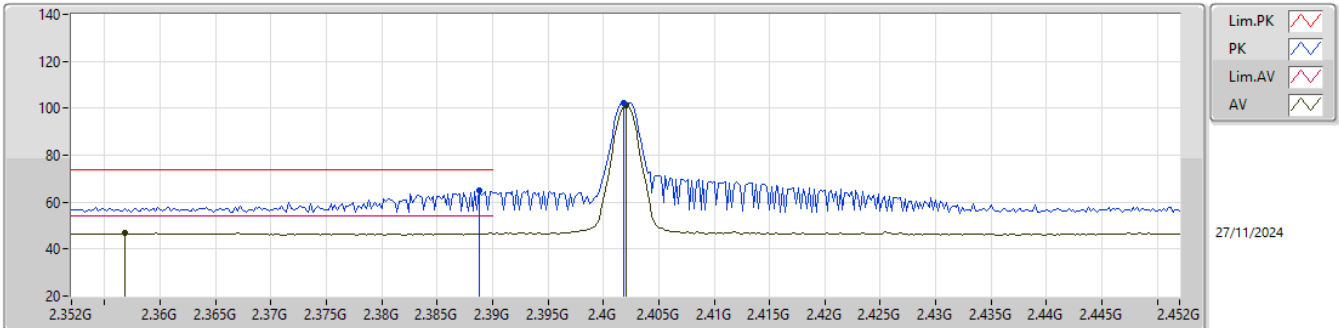


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3858G	60.84	74.00	-13.16	29.65	3	Vertical	153	2.82	-	27.70	3.49	-				
AV	2.3534G	46.87	54.00	-7.13	15.45	3	Vertical	153	2.82	-	27.97	3.45	-				
PK	2.4024G	95.48	Inf	-Inf	64.30	3	Vertical	153	2.82	-	27.68	3.50	-				
AV	2.402G	94.39	Inf	-Inf	63.21	3	Vertical	153	2.82	-	27.68	3.50	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

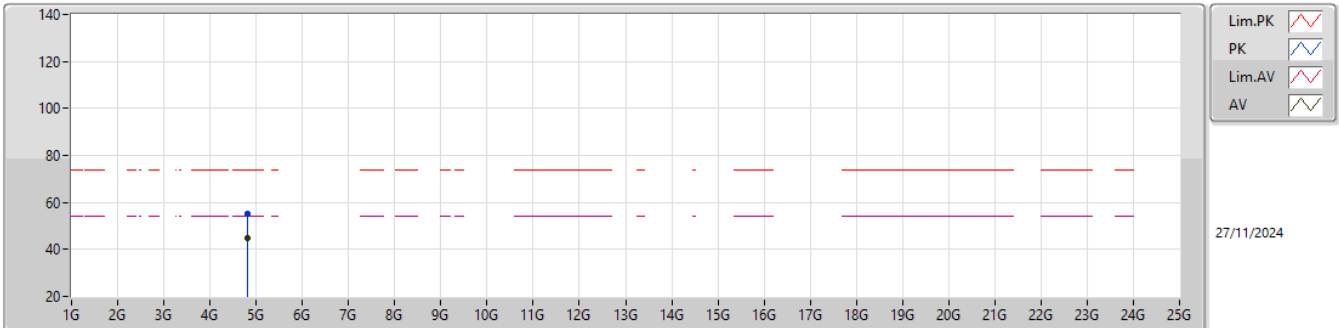


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3888G	64.84	74.00	-9.16	33.65	3	Horizontal	13	1.27	-	27.70	3.49	-			
AV	2.3568G	46.82	54.00	-7.18	15.44	3	Horizontal	13	1.27	-	27.93	3.45	-			
PK	2.4018G	102.32	Inf	-Inf	71.14	3	Horizontal	13	1.27	-	27.68	3.50	-			
AV	2.402G	101.24	Inf	-Inf	70.06	3	Horizontal	13	1.27	-	27.68	3.50	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

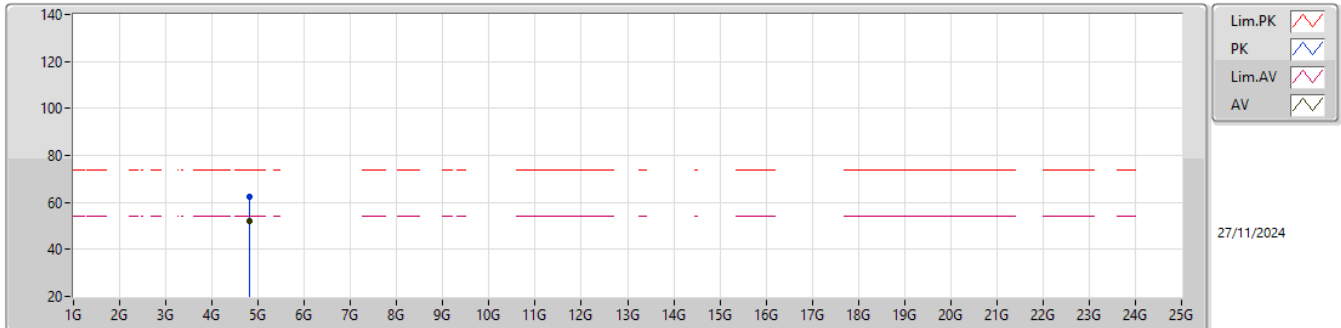


EUT_V_1TX
Setting 63
03-V-R-7

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	4.80414G	55.30	74.00	-18.70	50.21	3	Vertical	166.6	2.31	-	33.21	7.21	35.33			
AV	4.80456G	44.86	54.00	-9.14	39.77	3	Vertical	166.6	2.31	-	33.21	7.21	35.33			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

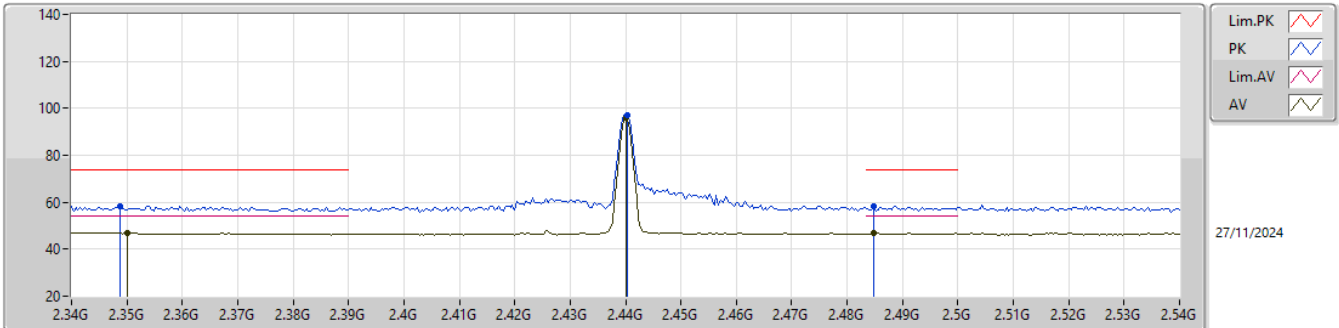


EUT_V_1TX
Setting 63
03-V-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8043G	62.29	74.00	-11.71	57.20	3	Horizontal	65	2.10	-	33.21	7.21	35.33			
AV	4.80446G	52.15	54.00	-1.85	47.06	3	Horizontal	65	2.10	-	33.21	7.21	35.33			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

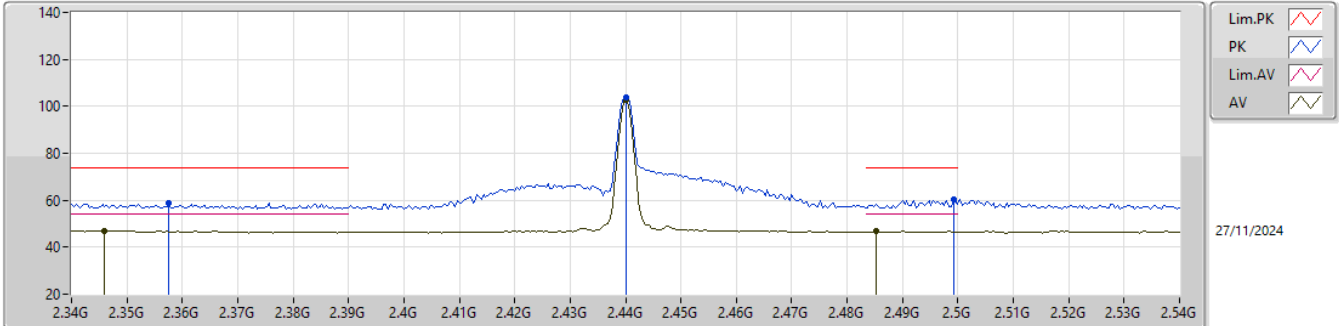


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3488G	58.20	74.00	-15.80	26.75	3	Vertical	157	2.72	-	28.00	3.45	-			
AV	2.35G	46.92	54.00	-7.08	15.47	3	Vertical	157	2.72	-	28.00	3.45	-			
PK	2.4404G	96.87	Inf	-Inf	65.85	3	Vertical	157	2.72	-	27.50	3.52	-			
AV	2.44G	95.79	Inf	-Inf	64.77	3	Vertical	157	2.72	-	27.50	3.52	-			
PK	2.4848G	58.41	74.00	-15.59	27.37	3	Vertical	157	2.72	-	27.50	3.54	-			
AV	2.4848G	46.80	54.00	-7.20	15.76	3	Vertical	157	2.72	-	27.50	3.54	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

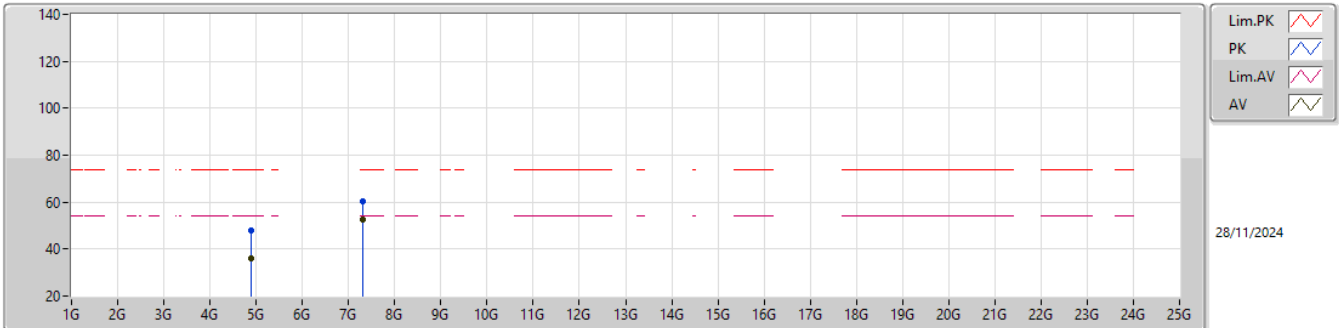


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3576G	58.95	74.00	-15.05	27.57	3	Horizontal	12	1.47	-	27.92	3.46	-			
AV	2.346G	46.93	54.00	-7.07	15.49	3	Horizontal	12	1.47	-	28.00	3.44	-			
PK	2.44G	103.81	Inf	-Inf	72.79	3	Horizontal	12	1.47	-	27.50	3.52	-			
AV	2.44G	102.75	Inf	-Inf	71.73	3	Horizontal	12	1.47	-	27.50	3.52	-			
PK	2.4992G	60.17	74.00	-13.83	29.12	3	Horizontal	12	1.47	-	27.50	3.55	-			
AV	2.4852G	46.80	54.00	-7.20	15.76	3	Horizontal	12	1.47	-	27.50	3.54	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

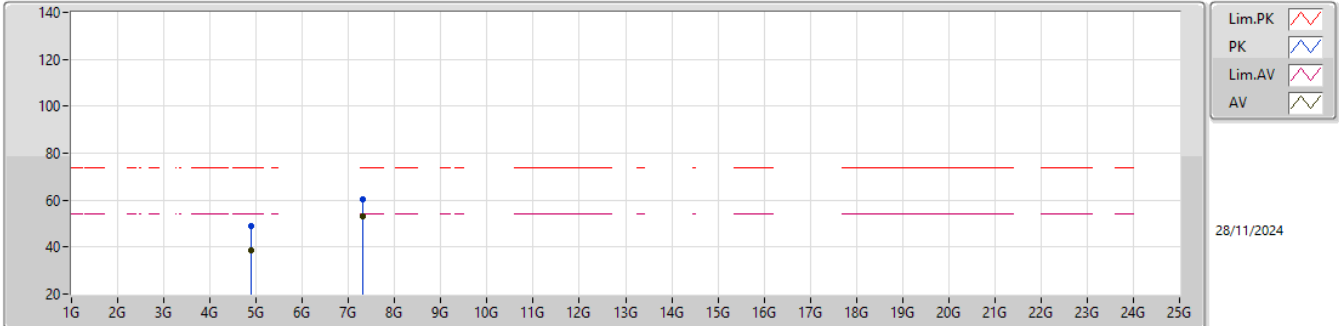


EUT_Y_1TX
Setting 31
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.88094G	47.78	74.00	-26.22	42.57	3	Vertical	161	2.48	-	33.36	7.18	35.33				
AV	4.8801G	36.12	54.00	-17.88	30.91	3	Vertical	161	2.48	-	33.36	7.18	35.33				
PK	7.32084G	60.12	74.00	-13.88	49.88	3	Vertical	355	1.87	-	36.78	8.62	35.16				
AV	7.3208G	52.65	54.00	-1.35	42.41	3	Vertical	355	1.87	-	36.78	8.62	35.16				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

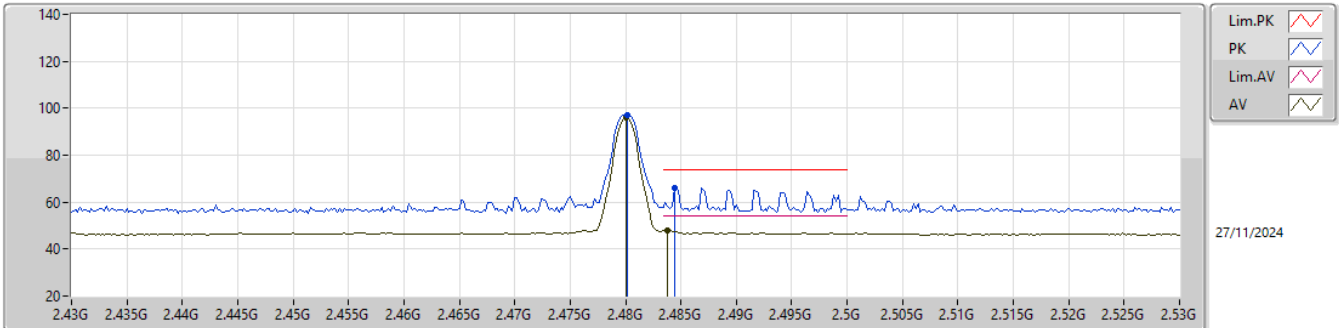


EUT_Y_1TX
Setting 31
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.88112G	48.75	74.00	-25.25	43.54	3	Horizontal	57	2.18	-	33.36	7.18	35.33				
AV	4.88004G	38.81	54.00	-15.19	33.60	3	Horizontal	57	2.18	-	33.36	7.18	35.33				
PK	7.32064G	60.12	74.00	-13.88	49.88	3	Horizontal	327	2.05	-	36.78	8.62	35.16				
AV	7.32076G	52.89	54.00	-1.11	42.65	3	Horizontal	327	2.05	-	36.78	8.62	35.16				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

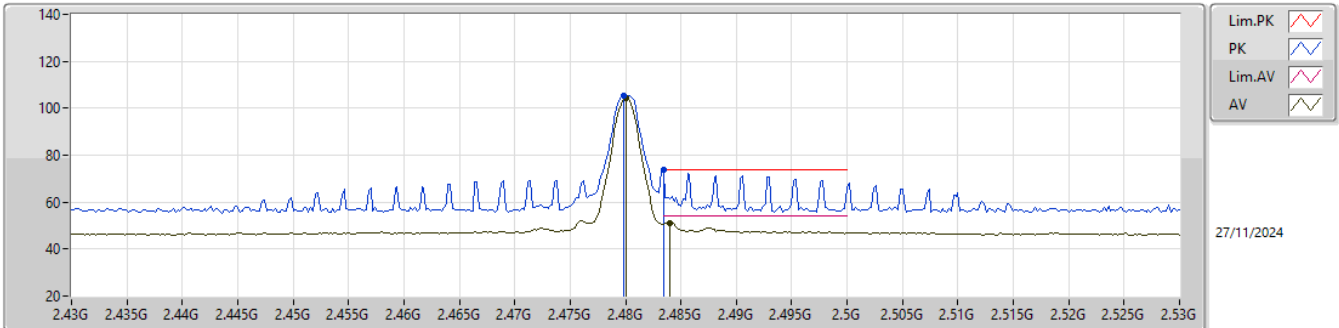


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4802G	97.04	Inf	-Inf	66.00	3	Vertical	196	2.95	-	27.50	3.54	-			
AV	2.48G	95.98	Inf	-Inf	64.94	3	Vertical	196	2.95	-	27.50	3.54	-			
PK	2.4844G	65.90	74.00	-8.10	34.86	3	Vertical	196	2.95	-	27.50	3.54	-			
AV	2.4838G	47.99	54.00	-6.01	16.95	3	Vertical	196	2.95	-	27.50	3.54	-			

2.4-2.4835GHz_BT-LE(1Mbps)

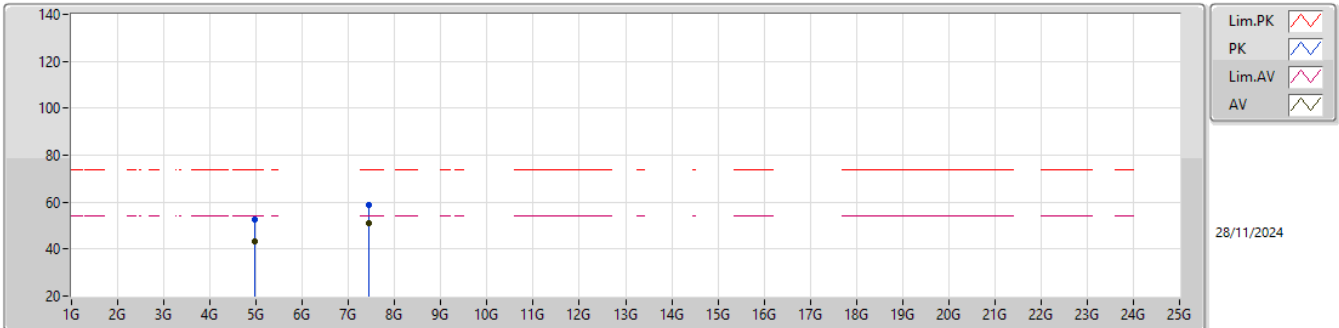
2480MHz_TX


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4798G	105.15	Inf	-Inf	74.11	3	Horizontal	5	1.47	-	27.50	3.54	-			
AV	2.48G	104.12	Inf	-Inf	73.08	3	Horizontal	5	1.47	-	27.50	3.54	-			
PK	2.4835G	73.78	74.00	-0.22	42.74	3	Horizontal	5	1.47	-	27.50	3.54	-			
AV	2.484G	51.29	54.00	-2.71	20.25	3	Horizontal	5	1.47	-	27.50	3.54	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

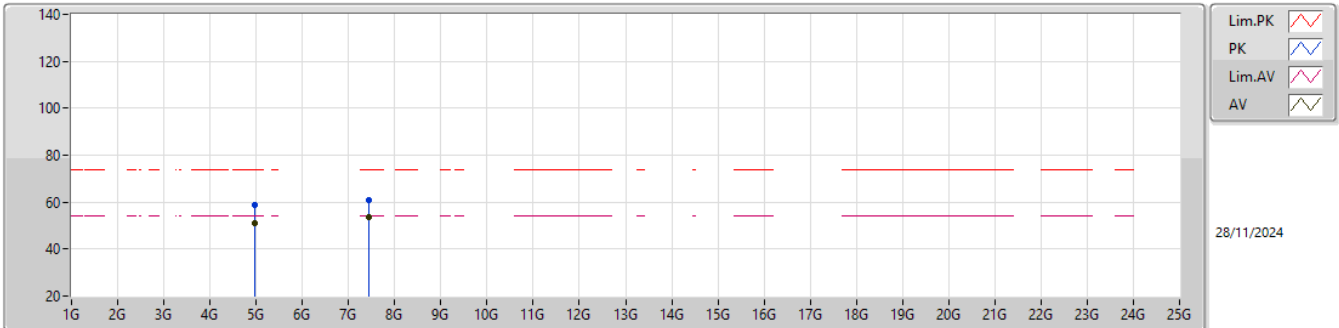


EUT_Y_1TX
Setting 41
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9602G	52.51	74.00	-21.49	47.09	3	Vertical	185	2.20	-	33.60	7.15	35.33			
AV	4.95984G	43.51	54.00	-10.49	38.09	3	Vertical	185	2.20	-	33.60	7.15	35.33			
PK	7.43946G	58.97	74.00	-15.03	48.60	3	Vertical	337	2.74	-	36.82	8.72	35.17			
AV	7.43954G	51.20	54.00	-2.80	40.83	3	Vertical	337	2.74	-	36.82	8.72	35.17			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

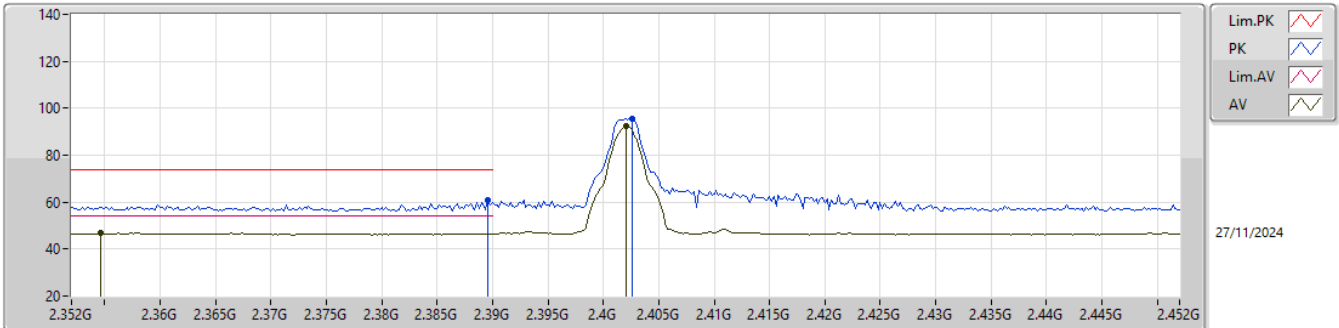


EUT_Y_1TX
Setting 41
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.96028G	58.61	74.00	-15.39	53.19	3	Horizontal	53	2.01	-	33.60	7.15	35.33				
AV	4.96018G	51.01	54.00	-2.99	45.59	3	Horizontal	53	2.01	-	33.60	7.15	35.33				
PK	7.43952G	61.01	74.00	-12.99	50.64	3	Horizontal	338	2.01	-	36.82	8.72	35.17				
AV	7.4395G	53.72	54.00	-0.28	43.35	3	Horizontal	338	2.01	-	36.82	8.72	35.17				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

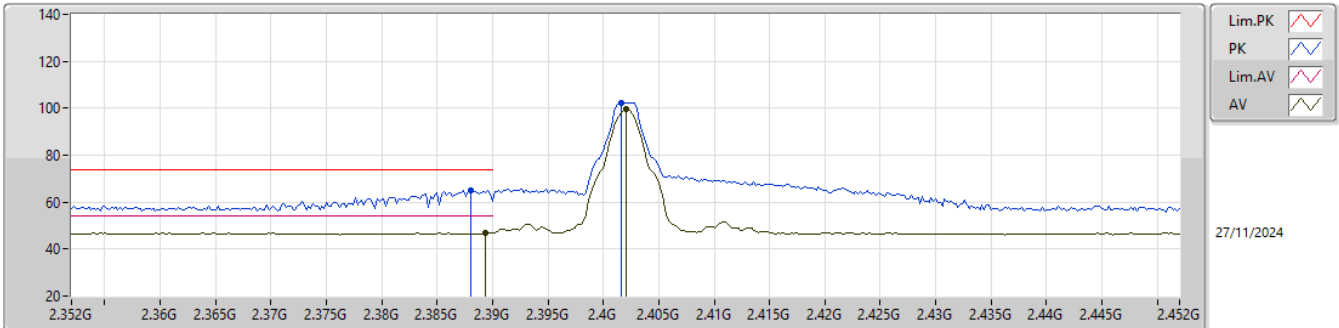


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3896G	60.84	74.00	-13.16	29.65	3	Vertical	153	2.73	-	27.70	3.49	-				
AV	2.3546G	46.85	54.00	-7.15	15.45	3	Vertical	153	2.73	-	27.95	3.45	-				
PK	2.4026G	95.31	Inf	-Inf	64.14	3	Vertical	153	2.73	-	27.67	3.50	-				
AV	2.402G	92.54	Inf	-Inf	61.36	3	Vertical	153	2.73	-	27.68	3.50	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

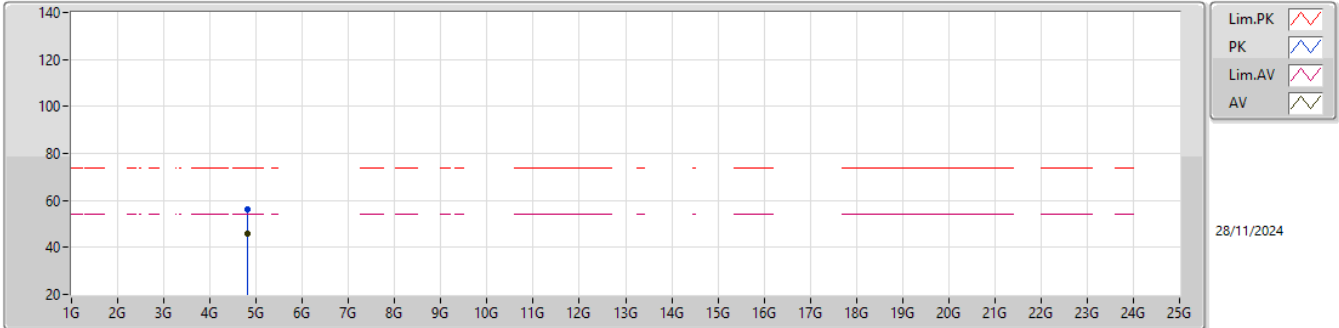


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.388G	65.17	74.00	-8.83	33.98	3	Horizontal	10	1.28	-	27.70	3.49	-				
AV	2.3894G	47.00	54.00	-7.00	15.81	3	Horizontal	10	1.28	-	27.70	3.49	-				
PK	2.4016G	102.44	Inf	-Inf	71.26	3	Horizontal	10	1.28	-	27.68	3.50	-				
AV	2.402G	99.73	Inf	-Inf	68.55	3	Horizontal	10	1.28	-	27.68	3.50	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

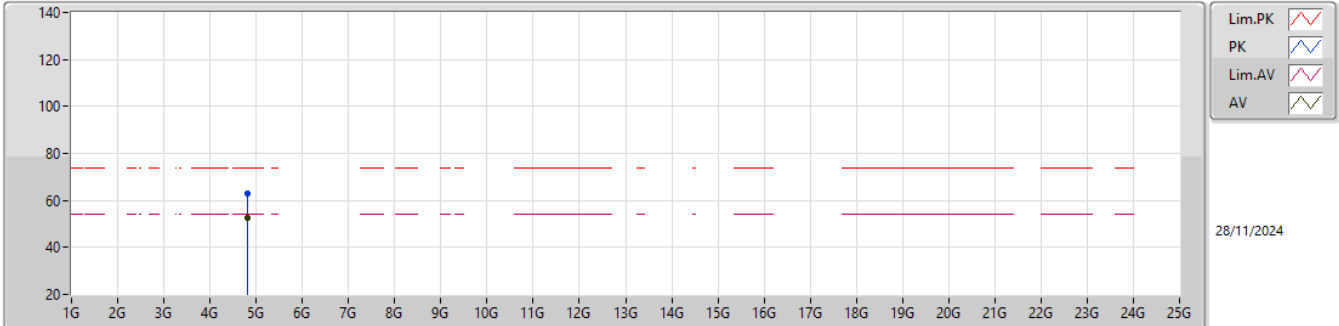


EUT_V_1TX
Setting 63
03-V-G-5

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	4.804G	56.32	74.00	-17.68	51.23	3	Vertical	164	2.29	-	33.21	7.21	35.33			
AV	4.80506G	45.61	54.00	-8.39	40.52	3	Vertical	164	2.29	-	33.21	7.21	35.33			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

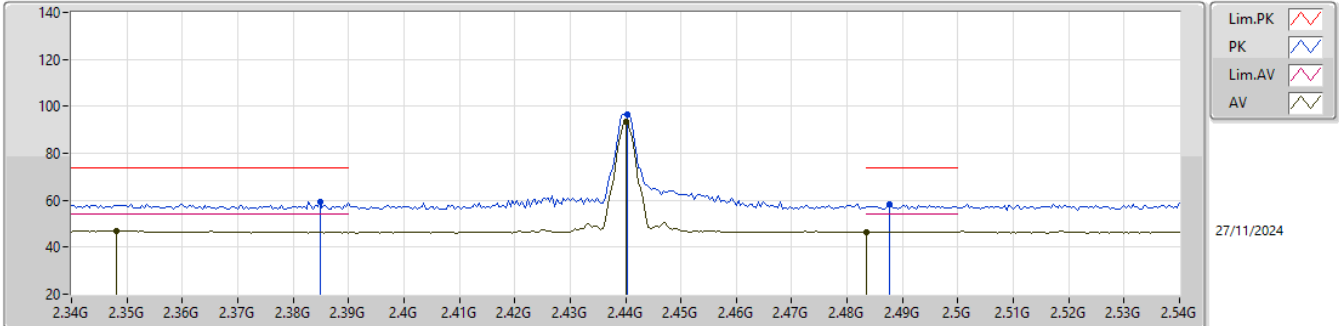


EUT_V_1TX
Setting 63
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.80418G	62.98	74.00	-11.02	57.89	3	Horizontal	64	2.07	-	33.21	7.21	35.33			
AV	4.80506G	52.33	54.00	-1.67	47.24	3	Horizontal	64	2.07	-	33.21	7.21	35.33			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

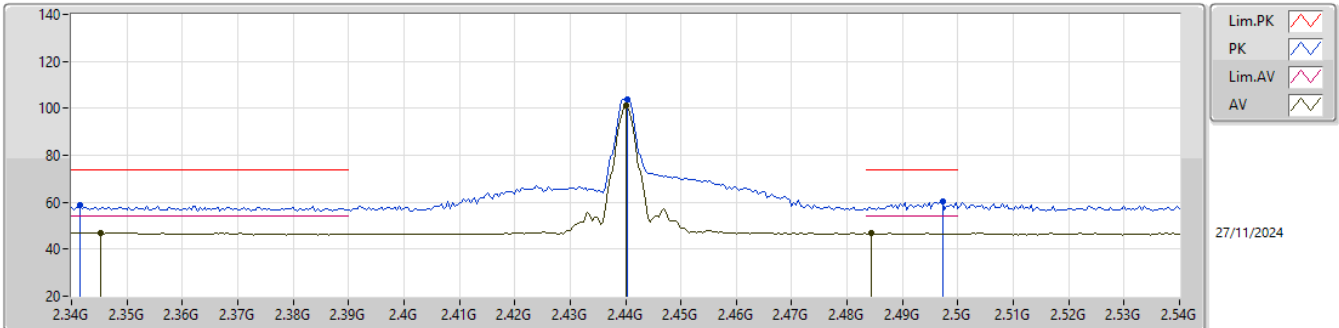


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3848G	59.28	74.00	-14.72	28.10	3	Vertical	158	2.72	-	27.70	3.48	-			
AV	2.348G	46.93	54.00	-7.07	15.48	3	Vertical	158	2.72	-	28.00	3.45	-			
PK	2.4404G	96.41	Inf	-Inf	65.39	3	Vertical	158	2.72	-	27.50	3.52	-			
AV	2.44G	93.62	Inf	-Inf	62.60	3	Vertical	158	2.72	-	27.50	3.52	-			
PK	2.4876G	58.06	74.00	-15.94	27.02	3	Vertical	158	2.72	-	27.50	3.54	-			
AV	2.4835G	46.54	54.00	-7.46	15.50	3	Vertical	158	2.72	-	27.50	3.54	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

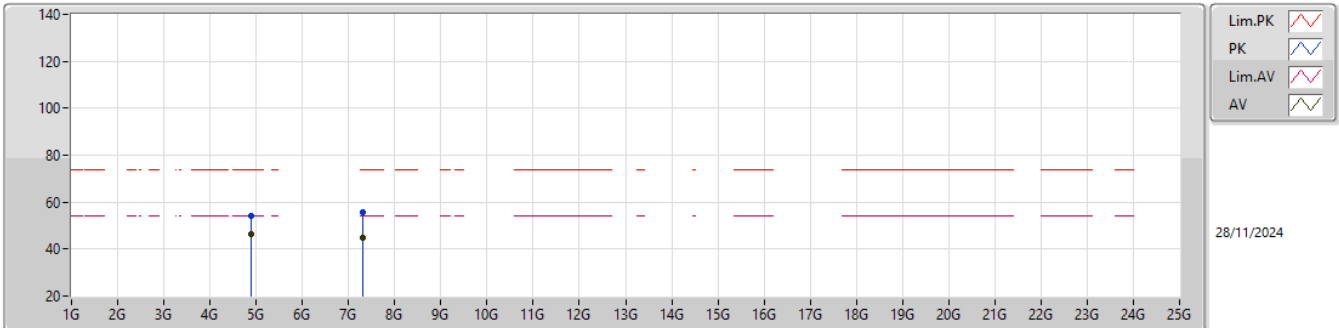


EUT_Z_1TX
Setting 63
04-H-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3416G	58.63	74.00	-15.37	27.19	3	Horizontal	15	1.47	-	28.00	3.44	-			
AV	2.3452G	46.93	54.00	-7.07	15.49	3	Horizontal	15	1.47	-	28.00	3.44	-			
PK	2.4404G	103.77	Inf	-Inf	72.75	3	Horizontal	15	1.47	-	27.50	3.52	-			
AV	2.44G	100.99	Inf	-Inf	69.97	3	Horizontal	15	1.47	-	27.50	3.52	-			
PK	2.4972G	60.18	74.00	-13.82	29.13	3	Horizontal	15	1.47	-	27.50	3.55	-			
AV	2.4844G	46.80	54.00	-7.20	15.76	3	Horizontal	15	1.47	-	27.50	3.54	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

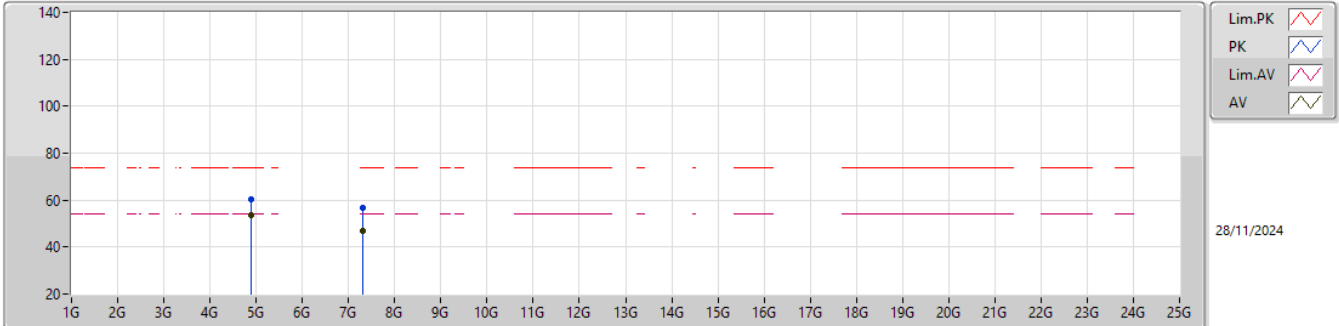


EUT_Y_1TX
Setting 37
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87908G	54.28	74.00	-19.72	49.07	3	Vertical	179	2.23	-	33.36	7.18	35.33			
AV	4.87908G	46.40	54.00	-7.60	41.19	3	Vertical	179	2.23	-	33.36	7.18	35.33			
PK	7.31882G	55.81	74.00	-18.19	45.57	3	Vertical	339	2.83	-	36.78	8.62	35.16			
AV	7.3189G	45.04	54.00	-8.96	34.80	3	Vertical	339	2.83	-	36.78	8.62	35.16			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

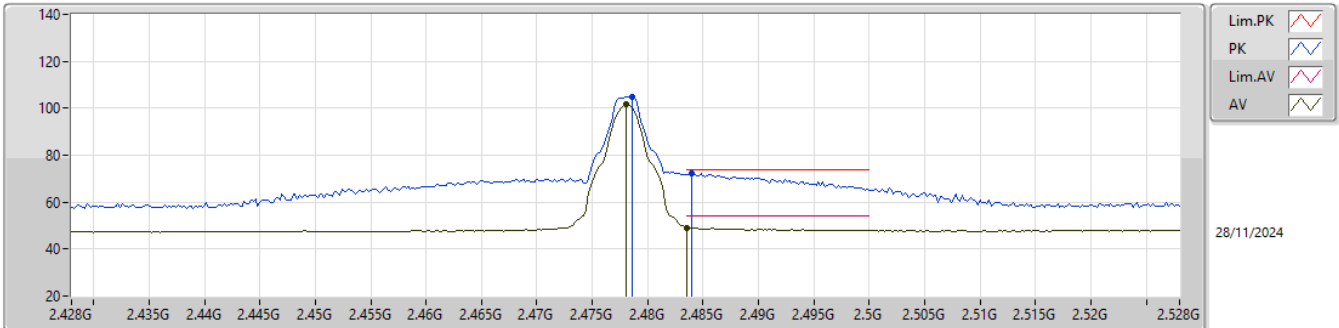


EUT_Y_1TX
Setting 37
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87908G	60.13	74.00	-13.87	54.92	3	Horizontal	49	2.16	-	33.36	7.18	35.33			
AV	4.87912G	53.58	54.00	-0.42	48.37	3	Horizontal	49	2.16	-	33.36	7.18	35.33			
PK	7.32172G	56.90	74.00	-17.10	46.65	3	Horizontal	327	2.05	-	36.79	8.62	35.16			
AV	7.32144G	46.81	54.00	-7.19	36.56	3	Horizontal	327	2.05	-	36.79	8.62	35.16			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

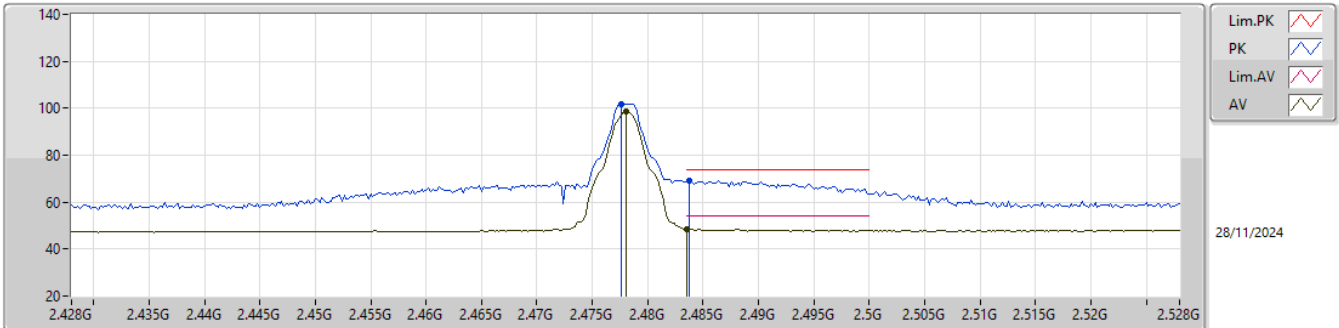


EUT_Z_1TX
Setting 63
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4786G	104.67	Inf	-Inf	71.46	3	Vertical	106	1.61	-	28.30	4.91	-			
AV	2.478G	101.72	Inf	-Inf	68.51	3	Vertical	106	1.61	-	28.30	4.91	-			
PK	2.484G	72.35	74.00	-1.65	39.10	3	Vertical	106	1.61	-	28.34	4.91	-			
AV	2.4835G	49.11	54.00	-4.89	15.86	3	Vertical	106	1.61	-	28.34	4.91	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

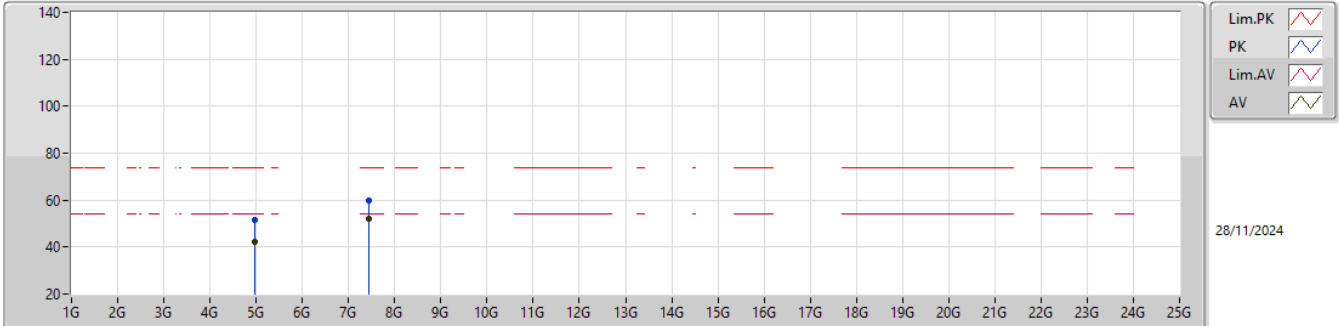


EUT_Z_1TX
Setting 63
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4776G	101.67	Inf	-Inf	68.46	3	Horizontal	205	2.65	-	28.30	4.91	-			
AV	2.478G	98.73	Inf	-Inf	65.52	3	Horizontal	205	2.65	-	28.30	4.91	-			
PK	2.4838G	69.18	74.00	-4.82	35.93	3	Horizontal	205	2.65	-	28.34	4.91	-			
AV	2.4835G	48.43	54.00	-5.57	15.18	3	Horizontal	205	2.65	-	28.34	4.91	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

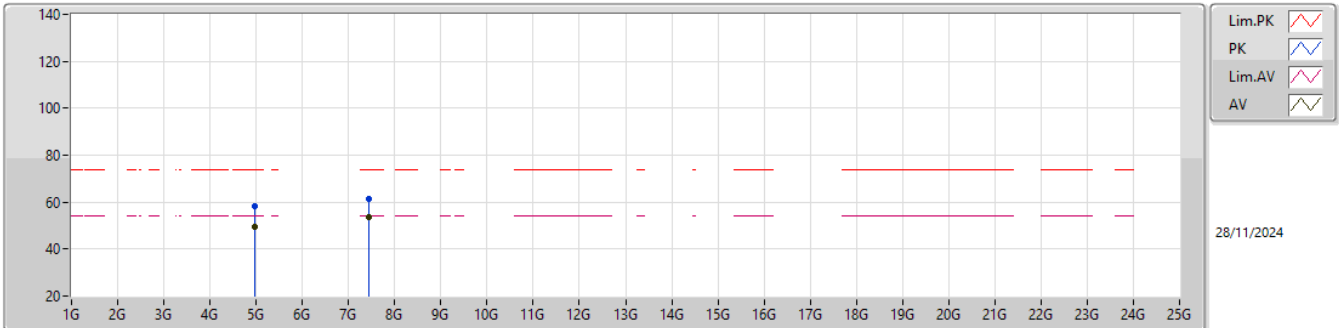


EUT_Y_1TX
Setting 42
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.95712G	51.80	74.00	-22.20	46.37	3	Vertical	186	2.20	-	33.60	7.16	35.33			
AV	4.95698G	42.17	54.00	-11.83	36.74	3	Vertical	186	2.20	-	33.60	7.16	35.33			
PK	7.43272G	60.00	74.00	-14.00	49.62	3	Vertical	333	2.71	-	36.83	8.71	35.16			
AV	7.43542G	51.84	54.00	-2.16	41.45	3	Vertical	333	2.71	-	36.83	8.72	35.16			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX



EUT_Y_1TX
Setting 42
03-V-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.95626G	58.09	74.00	-15.91	52.66	3	Horizontal	52	2.03	-	33.60	7.16	35.33			
AV	4.95712G	49.52	54.00	-4.48	44.09	3	Horizontal	52	2.03	-	33.60	7.16	35.33			
PK	7.4327G	61.44	74.00	-12.56	51.06	3	Horizontal	336	1.94	-	36.83	8.71	35.16			
AV	7.43538G	53.76	54.00	-0.24	43.37	3	Horizontal	336	1.94	-	36.83	8.72	35.16			

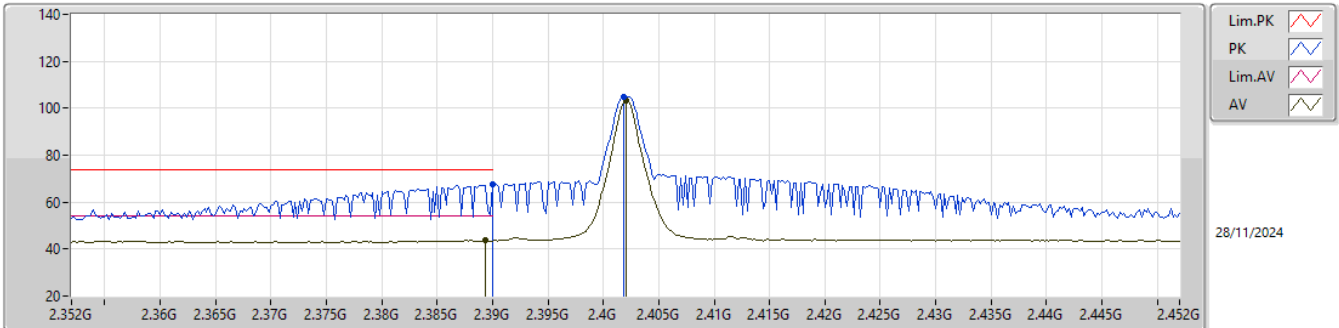


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4835G	53.14	54.00	-0.86	3	Vertical	281	1.20	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

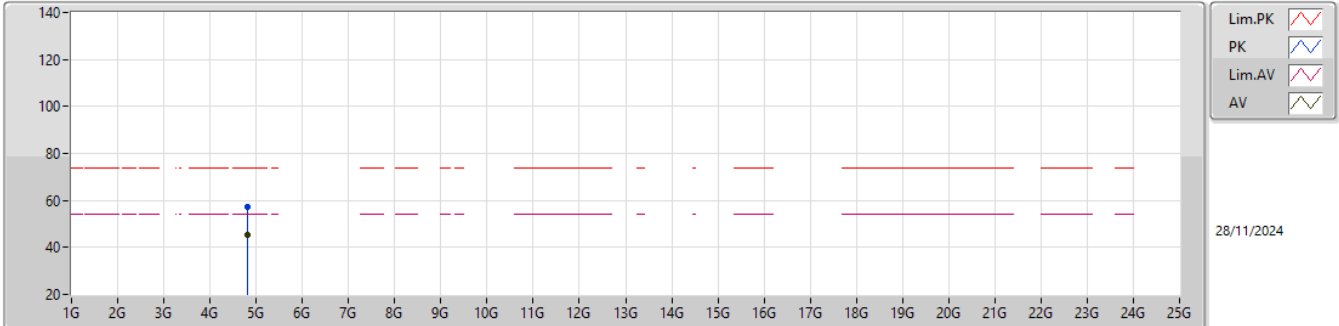


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.39G	67.45	74.00	-6.55	36.33	3	Vertical	83	1.80	-	27.40	3.72	-			
AV	2.3894G	43.63	54.00	-10.37	12.52	3	Vertical	83	1.80	-	27.39	3.72	-			
PK	2.4018G	104.97	Inf	-Inf	73.75	3	Vertical	83	1.80	-	27.50	3.72	-			
AV	2.402G	103.27	Inf	-Inf	72.05	3	Vertical	83	1.80	-	27.50	3.72	-			

2.4-2.4835GHz_BT-LE(1Mbps)

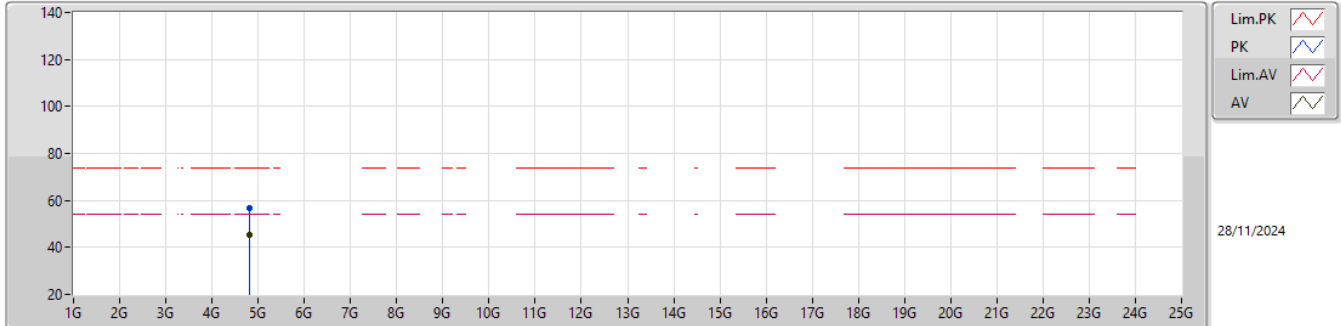
2402MHz_TX


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	4.80475G	56.99	74.00	-17.01	50.63	3	Vertical	254	2.89	-	32.52	6.41	32.57				
AV	4.80408G	45.30	54.00	-8.70	38.94	3	Vertical	254	2.89	-	32.52	6.41	32.57				

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

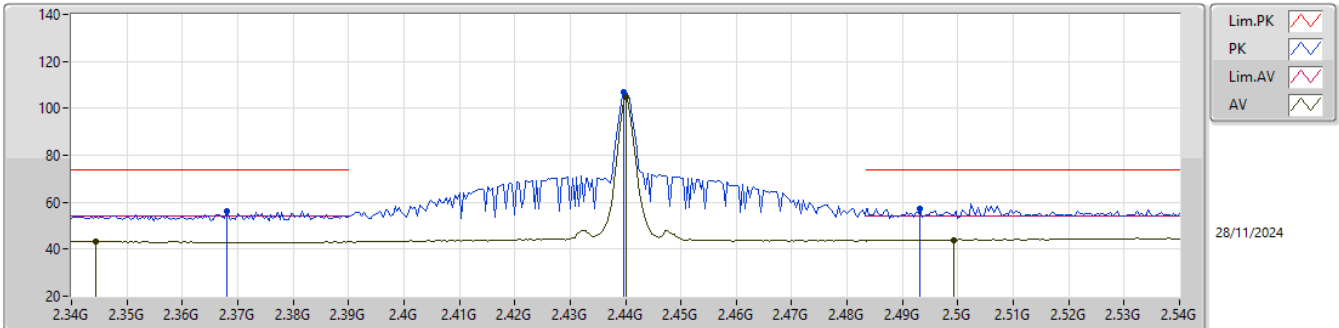


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.80421G	56.78	74.00	-17.22	50.42	3	Horizontal	261	2.90	-	32.52	6.41	32.57			
AV	4.80403G	45.27	54.00	-8.73	38.91	3	Horizontal	261	2.90	-	32.52	6.41	32.57			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

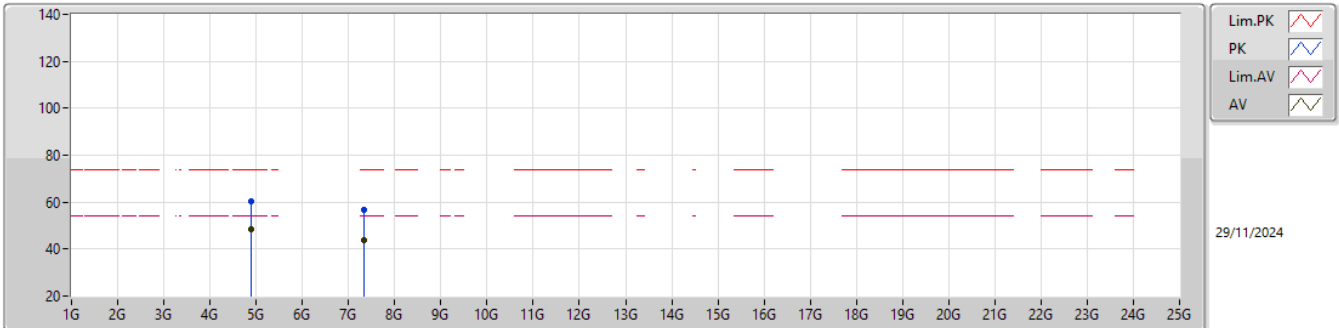


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.368G	56.18	74.00	-17.82	25.04	3	Vertical	72	1.00	-	27.42	3.72	-			
AV	2.3444G	43.30	54.00	-10.70	12.15	3	Vertical	72	1.00	-	27.44	3.71	-			
PK	2.4396G	106.67	Inf	-Inf	75.31	3	Vertical	72	1.00	-	27.60	3.76	-			
AV	2.44G	104.96	Inf	-Inf	73.60	3	Vertical	72	1.00	-	27.60	3.76	-			
PK	2.4932G	57.33	74.00	-16.67	25.58	3	Vertical	72	1.00	-	27.93	3.82	-			
AV	2.4992G	43.94	54.00	-10.06	12.12	3	Vertical	72	1.00	-	27.99	3.83	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

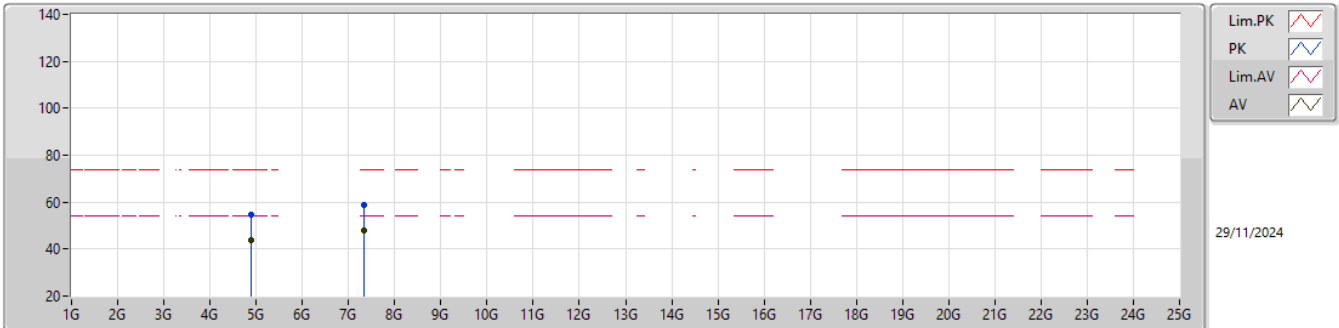


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88211G	60.24	74.00	-13.76	53.48	3	Vertical	357	1.02	-	32.83	6.51	32.58			
AV	4.88122G	48.61	54.00	-5.39	41.86	3	Vertical	357	1.02	-	32.82	6.51	32.58			
PK	7.32226G	56.84	74.00	-17.16	43.95	3	Vertical	196	2.31	-	37.54	7.98	32.63			
AV	7.32228G	43.87	54.00	-10.13	30.98	3	Vertical	196	2.31	-	37.54	7.98	32.63			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

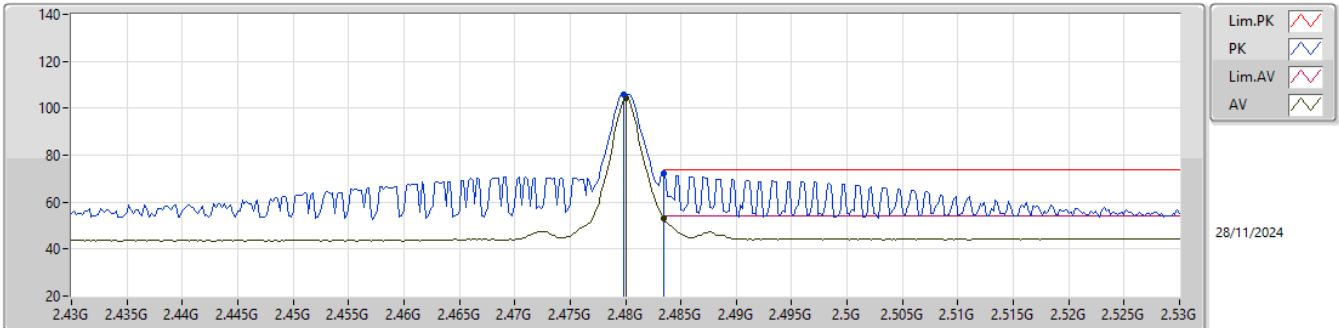


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88084G	54.67	74.00	-19.33	47.92	3	Horizontal	265	2.64	-	32.82	6.51	32.58			
AV	4.88168G	43.66	54.00	-10.34	36.90	3	Horizontal	265	2.64	-	32.83	6.51	32.58			
PK	7.32292G	58.56	74.00	-15.44	45.66	3	Horizontal	16	2.11	-	37.55	7.98	32.63			
AV	7.32288G	47.94	54.00	-6.06	35.04	3	Horizontal	16	2.11	-	37.55	7.98	32.63			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

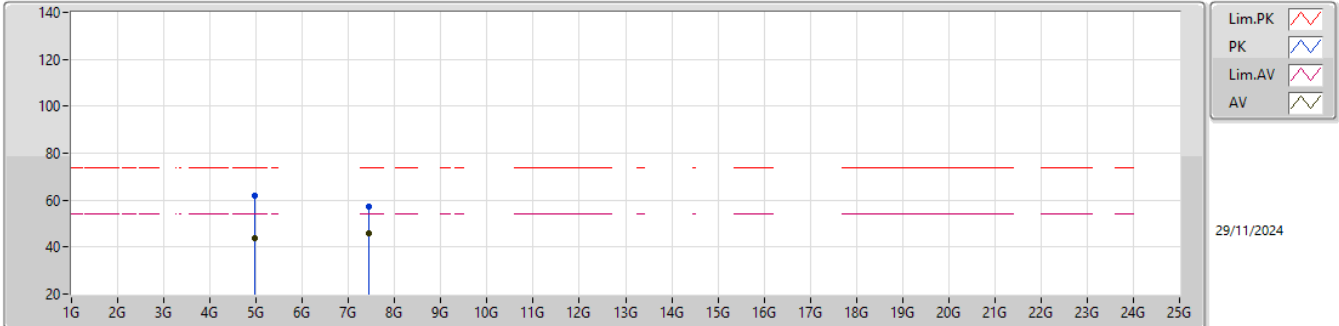


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.4798G	106.06	Inf	-Inf	74.45	3	Vertical	281	1.20	-	27.80	3.81	-				
AV	2.48G	104.45	Inf	-Inf	72.84	3	Vertical	281	1.20	-	27.80	3.81	-				
PK	2.4835G	72.42	74.00	-1.58	40.77	3	Vertical	281	1.20	-	27.84	3.81	-				
AV	2.4835G	53.14	54.00	-0.86	21.49	3	Vertical	281	1.20	-	27.84	3.81	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

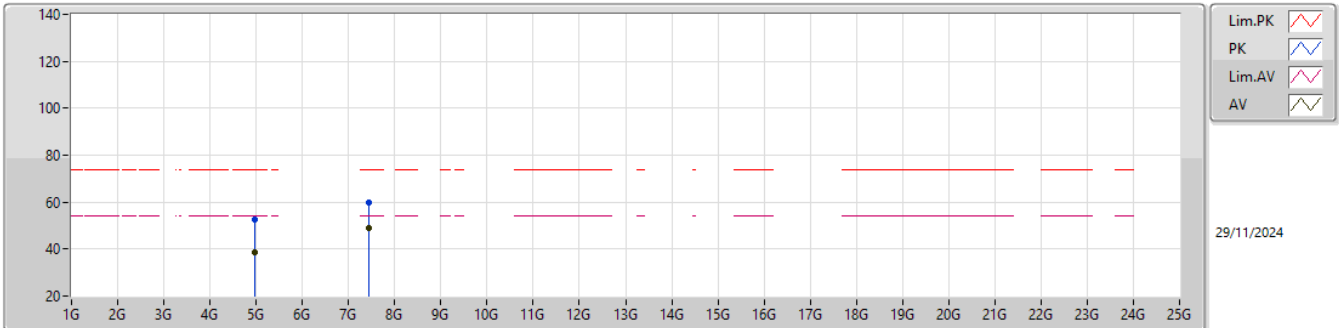


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.96068G	61.89	74.00	-12.11	54.87	3	Vertical	124	1.95	-	32.98	6.62	32.58				
AV	4.96045G	43.77	54.00	-10.23	36.75	3	Vertical	124	1.95	-	32.98	6.62	32.58				
PK	7.4387G	57.30	74.00	-16.70	44.31	3	Vertical	244	2.03	-	37.52	8.05	32.58				
AV	7.43968G	45.64	54.00	-8.36	32.64	3	Vertical	244	2.03	-	37.52	8.06	32.58				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

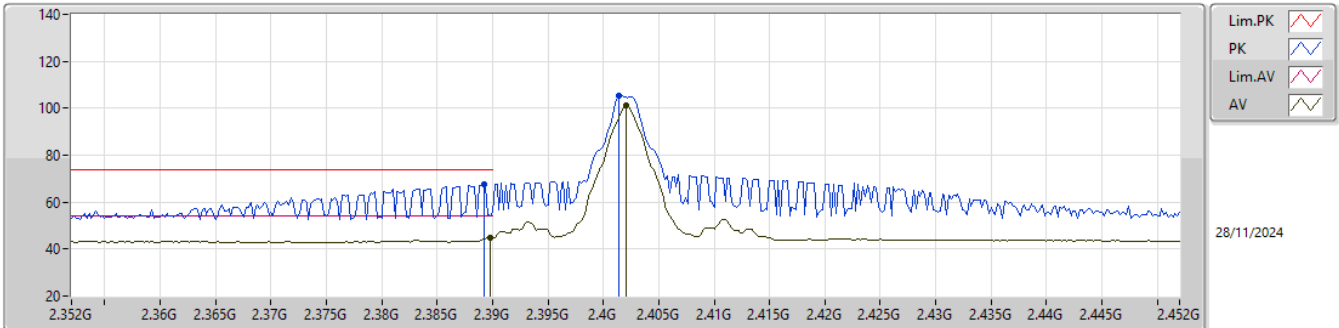


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.96091G	52.54	74.00	-21.46	45.52	3	Horizontal	158	2.01	-	32.98	6.62	32.58			
AV	4.96171G	38.83	54.00	-15.17	31.81	3	Horizontal	158	2.01	-	32.98	6.62	32.58			
PK	7.44145G	59.60	74.00	-14.40	46.60	3	Horizontal	17	2.11	-	37.52	8.06	32.58			
AV	7.44223G	48.81	54.00	-5.19	35.81	3	Horizontal	17	2.11	-	37.52	8.06	32.58			

2.4-2.4835GHz_BT-LE(2Mbps)

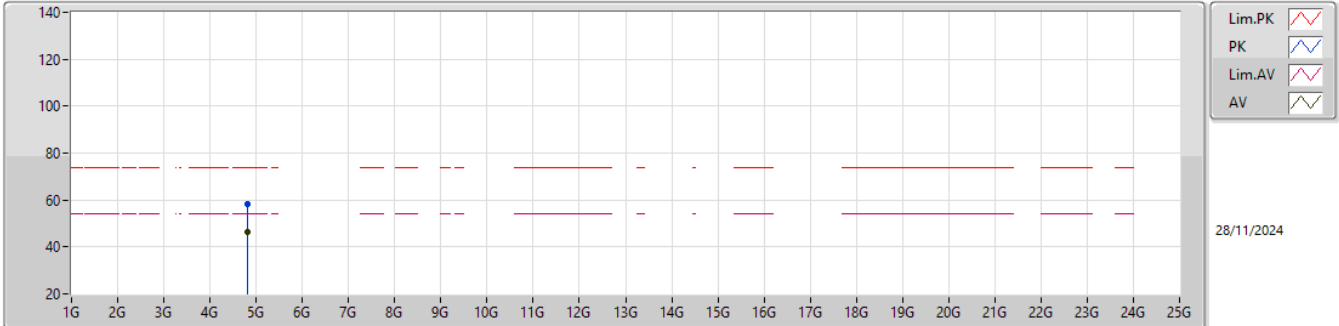
2402MHz_TX


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3892G	67.37	74.00	-6.63	36.26	3	Vertical	80	1.80	-	27.39	3.72	-			
AV	2.3898G	44.70	54.00	-9.30	13.58	3	Vertical	80	1.80	-	27.40	3.72	-			
PK	2.4014G	105.14	Inf	-Inf	73.92	3	Vertical	80	1.80	-	27.50	3.72	-			
AV	2.402G	101.21	Inf	-Inf	69.99	3	Vertical	80	1.80	-	27.50	3.72	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

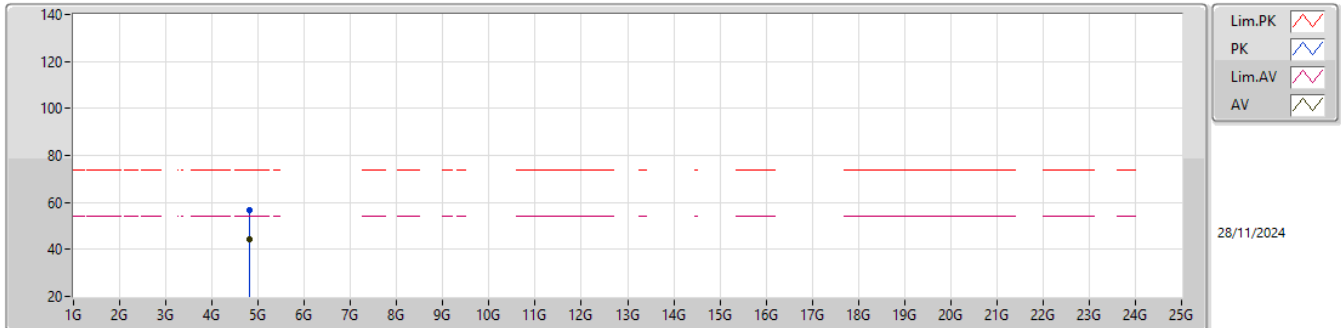


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.80413G	58.16	74.00	-15.84	51.80	3	Vertical	251	2.82	-	32.52	6.41	32.57			
AV	4.80403G	46.41	54.00	-7.59	40.05	3	Vertical	251	2.82	-	32.52	6.41	32.57			

2.4-2.4835GHz_BT-LE(2Mbps)

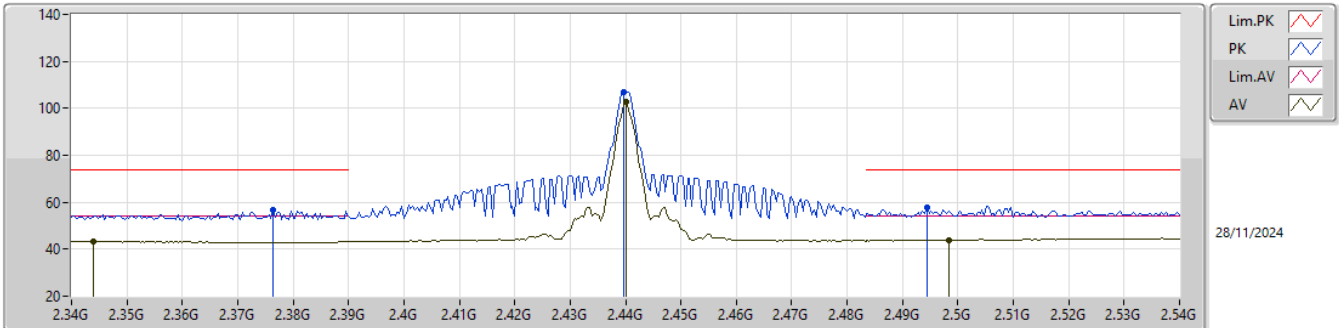
2402MHz_TX


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.80412G	56.72	74.00	-17.28	50.36	3	Horizontal	251	2.88	-	32.52	6.41	32.57			
AV	4.80507G	44.41	54.00	-9.59	38.05	3	Horizontal	251	2.88	-	32.52	6.41	32.57			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

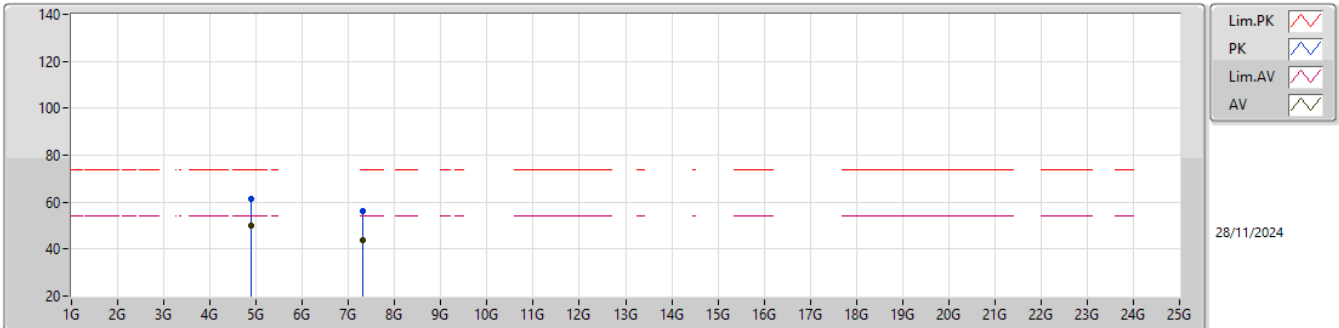


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3764G	56.61	74.00	-17.39	25.55	3	Vertical	71	1.00	-	27.34	3.72	-			
AV	2.344G	43.46	54.00	-10.54	12.31	3	Vertical	71	1.00	-	27.44	3.71	-			
PK	2.4396G	106.93	Inf	-Inf	75.57	3	Vertical	71	1.00	-	27.60	3.76	-			
AV	2.44G	102.99	Inf	-Inf	71.63	3	Vertical	71	1.00	-	27.60	3.76	-			
PK	2.4944G	57.68	74.00	-16.32	25.92	3	Vertical	71	1.00	-	27.94	3.82	-			
AV	2.4984G	44.02	54.00	-9.98	12.21	3	Vertical	71	1.00	-	27.98	3.83	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

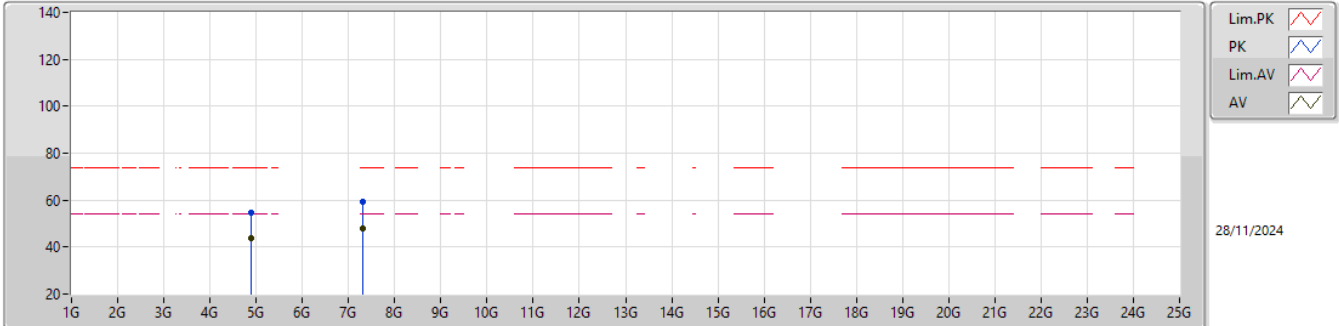


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88015G	61.27	74.00	-12.73	54.52	3	Vertical	356	1.00	-	32.82	6.51	32.58			
AV	4.879G	49.82	54.00	-4.18	43.07	3	Vertical	356	1.00	-	32.82	6.51	32.58			
PK	7.32146G	56.02	74.00	-17.98	43.13	3	Vertical	198	2.62	-	37.54	7.98	32.63			
AV	7.32136G	43.98	54.00	-10.02	31.09	3	Vertical	198	2.62	-	37.54	7.98	32.63			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

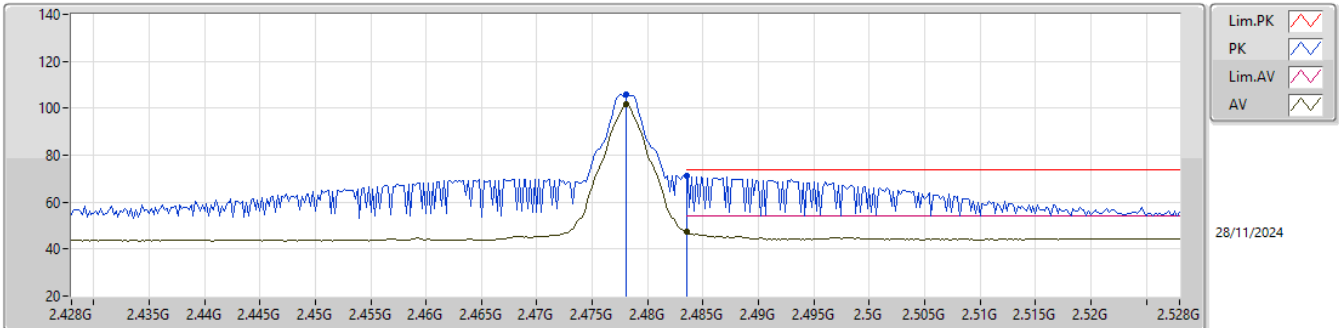


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88019G	54.56	74.00	-19.44	47.81	3	Horizontal	260	2.69	-	32.82	6.51	32.58			
AV	4.87902G	43.93	54.00	-10.07	37.18	3	Horizontal	260	2.69	-	32.82	6.51	32.58			
PK	7.32184G	59.12	74.00	-14.88	46.23	3	Horizontal	19	2.19	-	37.54	7.98	32.63			
AV	7.31879G	48.01	54.00	-5.99	35.12	3	Horizontal	19	2.19	-	37.54	7.98	32.63			

2.4-2.4835GHz_BT-LE(2Mbps)

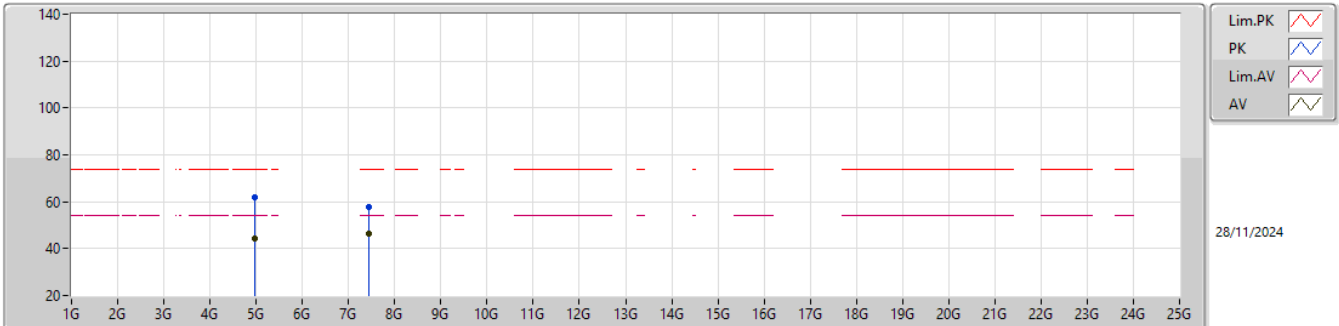
2478MHz_TX


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.478G	105.66	Inf	-Inf	74.07	3	Vertical	293	1.40	-	27.78	3.81	-			
AV	2.478G	101.72	Inf	-Inf	70.13	3	Vertical	293	1.40	-	27.78	3.81	-			
PK	2.4835G	71.02	74.00	-2.98	39.37	3	Vertical	293	1.40	-	27.84	3.81	-			
AV	2.4835G	47.17	54.00	-6.83	15.52	3	Vertical	293	1.40	-	27.84	3.81	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

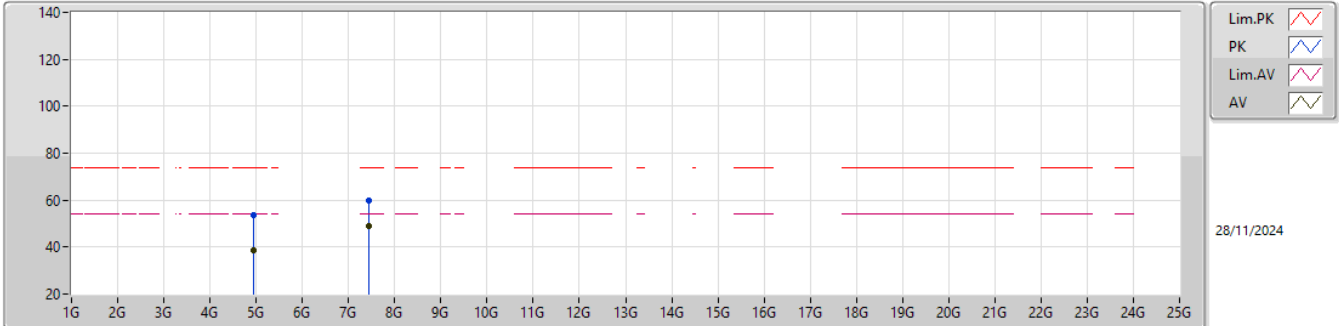


EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.95691G	61.98	74.00	-12.02	54.96	3	Vertical	1	1.04	-	32.99	6.61	32.58			
AV	4.95702G	44.30	54.00	-9.70	37.28	3	Vertical	1	1.04	-	32.99	6.61	32.58			
PK	7.43566G	57.73	74.00	-16.27	44.73	3	Vertical	202	2.27	-	37.53	8.05	32.58			
AV	7.43525G	46.60	54.00	-7.40	33.60	3	Vertical	202	2.27	-	37.53	8.05	32.58			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX



EUT_X_1TX
Setting 63
01-C-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9561G	53.58	74.00	-20.42	46.56	3	Horizontal	247	2.57	-	32.99	6.61	32.58			
AV	4.95499G	38.49	54.00	-15.51	31.47	3	Horizontal	247	2.57	-	32.99	6.61	32.58			
PK	7.43558G	59.72	74.00	-14.28	46.72	3	Horizontal	18	2.18	-	37.53	8.05	32.58			
AV	7.4329G	48.99	54.00	-5.01	36.00	3	Horizontal	18	2.18	-	37.53	8.05	32.59			

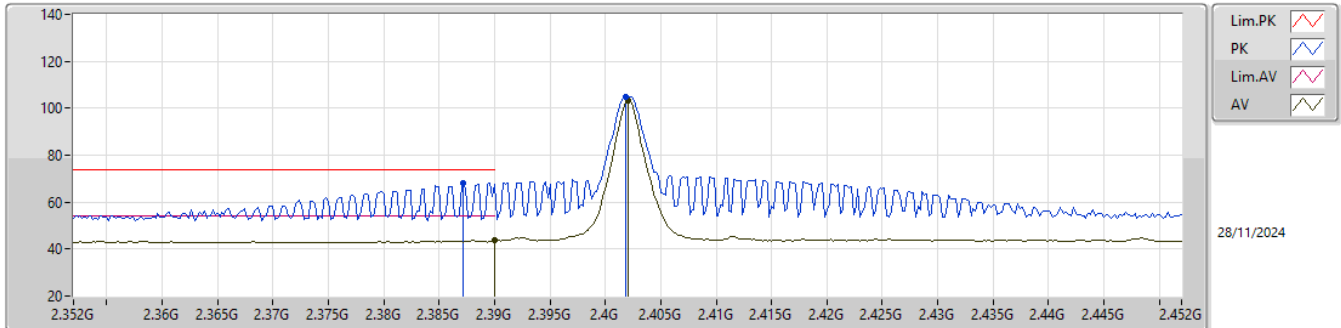


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	4.96006G	51.36	54.00	-2.64	3	Horizontal	330	2.12	-
BT-LE(2Mbps)	Pass	AV	4.80305G	52.47	54.00	-1.53	3	Horizontal	175	2.58	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

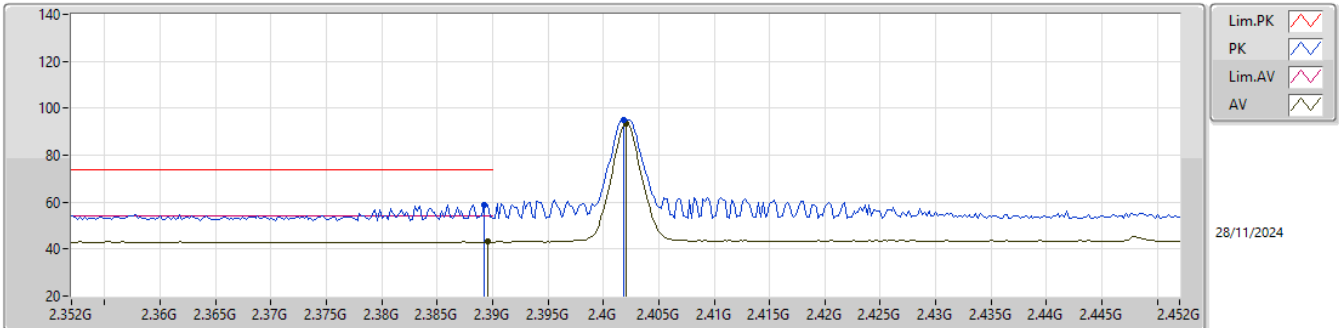


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3872G	67.97	74.00	-6.03	36.88	3	Vertical	23	1.27	-	27.37	3.72	-			
AV	2.39G	43.75	54.00	-10.25	12.63	3	Vertical	23	1.27	-	27.40	3.72	-			
PK	2.4018G	104.94	Inf	-Inf	73.72	3	Vertical	23	1.27	-	27.50	3.72	-			
AV	2.402G	103.24	Inf	-Inf	72.02	3	Vertical	23	1.27	-	27.50	3.72	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

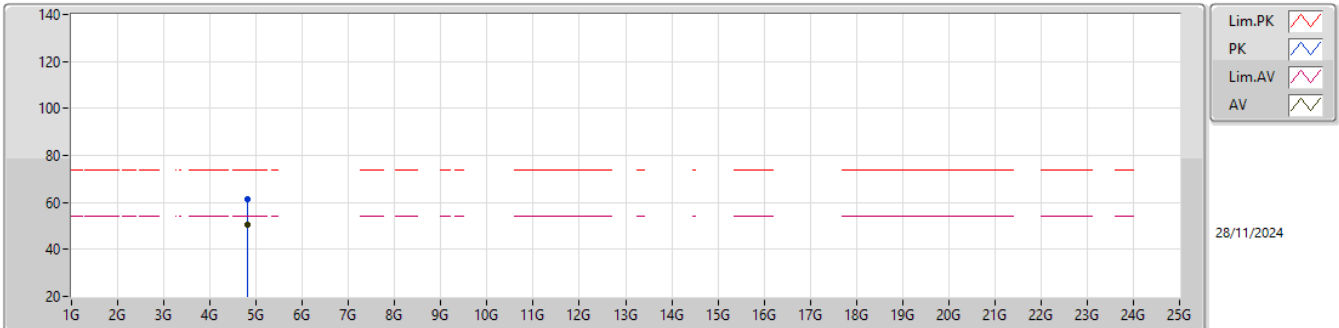


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3892G	58.86	74.00	-15.14	27.75	3	Horizontal	360	1.00	-	27.39	3.72	-				
AV	2.3896G	43.14	54.00	-10.86	12.02	3	Horizontal	360	1.00	-	27.40	3.72	-				
PK	2.4018G	95.23	Inf	-Inf	64.01	3	Horizontal	360	1.00	-	27.50	3.72	-				
AV	2.402G	93.55	Inf	-Inf	62.33	3	Horizontal	360	1.00	-	27.50	3.72	-				

2.4-2.4835GHz_BT-LE(1Mbps)

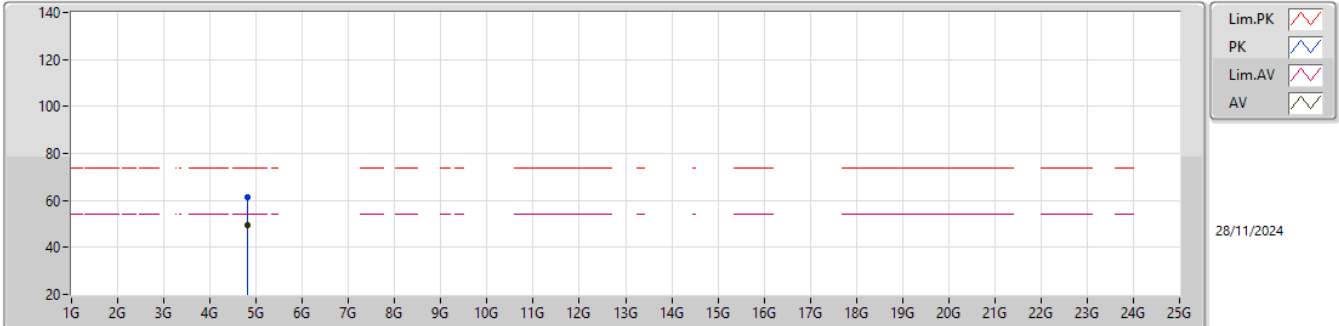
2402MHz_TX


EUT_Z_1TX
Setting 63
01-C-J-10

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	4.8042G	61.58	74.00	-12.42	55.22	3	Vertical	125	2.52	-	32.52	6.41	32.57			
AV	4.804G	50.38	54.00	-3.62	44.02	3	Vertical	125	2.52	-	32.52	6.41	32.57			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

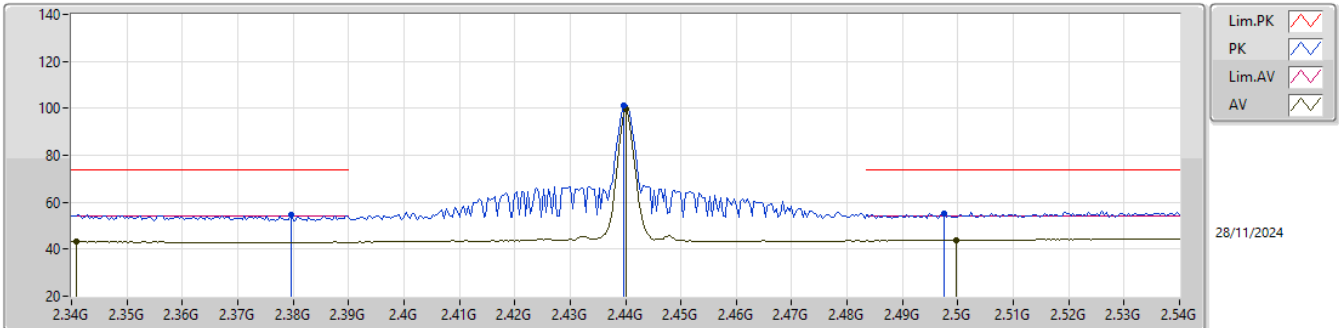


EUT_Z_1TX
Setting 63
01-C-J-10

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	4.8042G	61.21	74.00	-12.79	54.85	3	Horizontal	169	2.78	-	32.52	6.41	32.57			
AV	4.80408G	49.67	54.00	-4.33	43.31	3	Horizontal	169	2.78	-	32.52	6.41	32.57			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

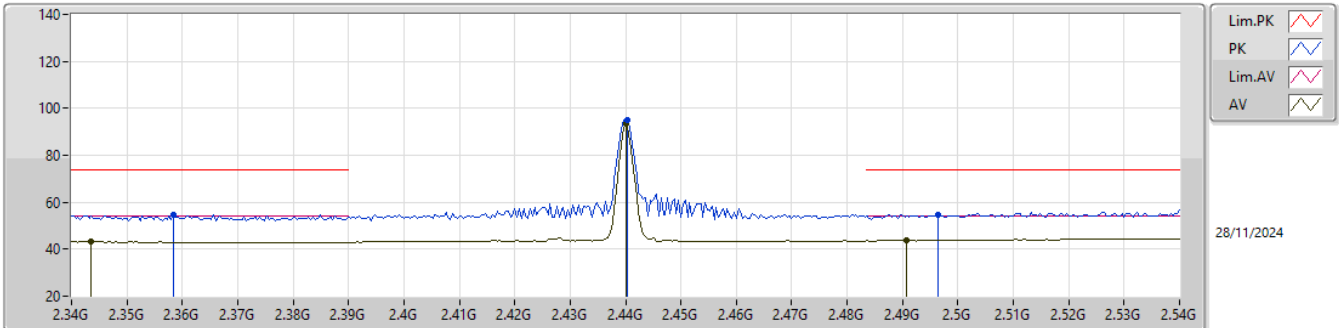


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3796G	54.86	74.00	-19.14	23.84	3	Vertical	25	1.10	-	27.30	3.72	-				
AV	2.3408G	43.29	54.00	-10.71	12.17	3	Vertical	25	1.10	-	27.41	3.71	-				
PK	2.4396G	101.37	Inf	-Inf	70.01	3	Vertical	25	1.10	-	27.60	3.76	-				
AV	2.44G	99.59	Inf	-Inf	68.23	3	Vertical	25	1.10	-	27.60	3.76	-				
PK	2.4976G	55.25	74.00	-18.75	23.44	3	Vertical	25	1.10	-	27.98	3.83	-				
AV	2.4996G	43.94	54.00	-10.06	12.11	3	Vertical	25	1.10	-	28.00	3.83	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

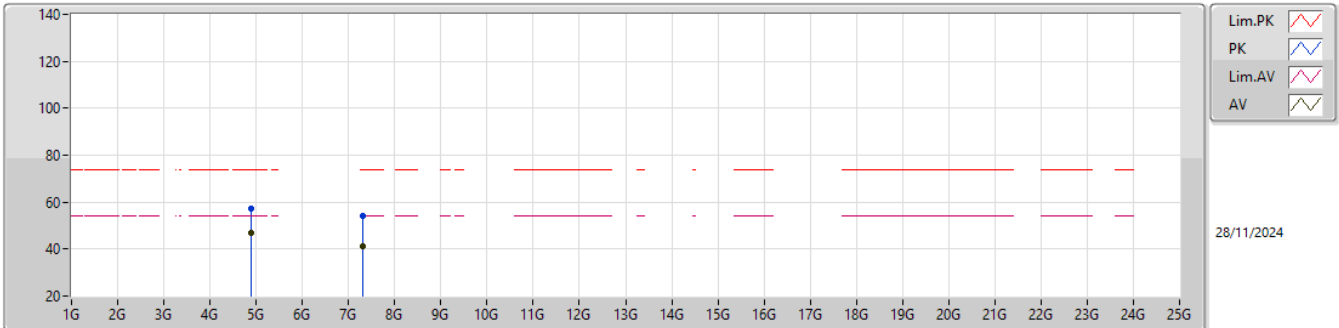


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3584G	54.81	74.00	-19.19	23.60	3	Horizontal	51	1.35	-	27.50	3.71	-			
AV	2.3436G	43.22	54.00	-10.78	12.07	3	Horizontal	51	1.35	-	27.44	3.71	-			
PK	2.4404G	95.05	Inf	-Inf	63.69	3	Horizontal	51	1.35	-	27.60	3.76	-			
AV	2.44G	93.34	Inf	-Inf	61.98	3	Horizontal	51	1.35	-	27.60	3.76	-			
PK	2.4964G	54.65	74.00	-19.35	22.86	3	Horizontal	51	1.35	-	27.96	3.83	-			
AV	2.4908G	43.88	54.00	-10.12	12.15	3	Horizontal	51	1.35	-	27.91	3.82	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

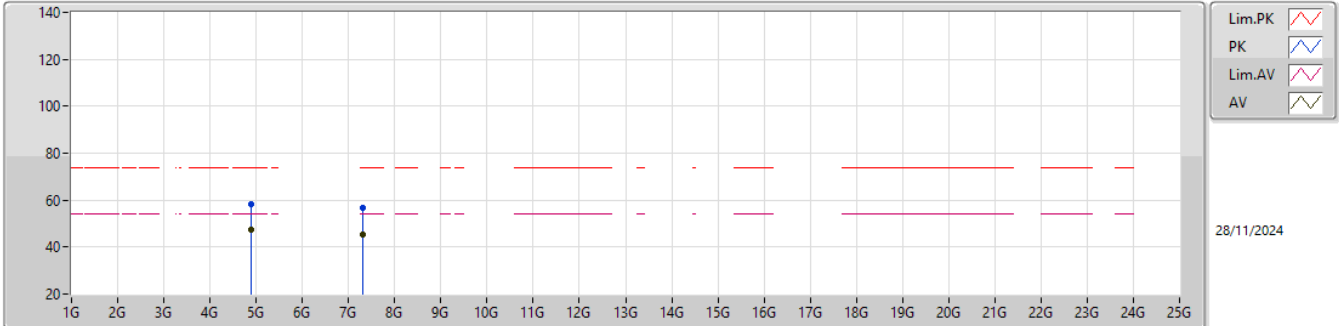


EUT_Z_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88024G	57.41	74.00	-16.59	50.66	3	Vertical	126	2.86	-	32.82	6.51	32.58			
AV	4.88012G	47.03	54.00	-6.97	40.28	3	Vertical	126	2.86	-	32.82	6.51	32.58			
PK	7.31924G	54.04	74.00	-19.96	41.15	3	Vertical	126	2.86	-	37.54	7.98	32.63			
AV	7.3192G	41.46	54.00	-12.54	28.57	3	Vertical	126	2.86	-	37.54	7.98	32.63			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

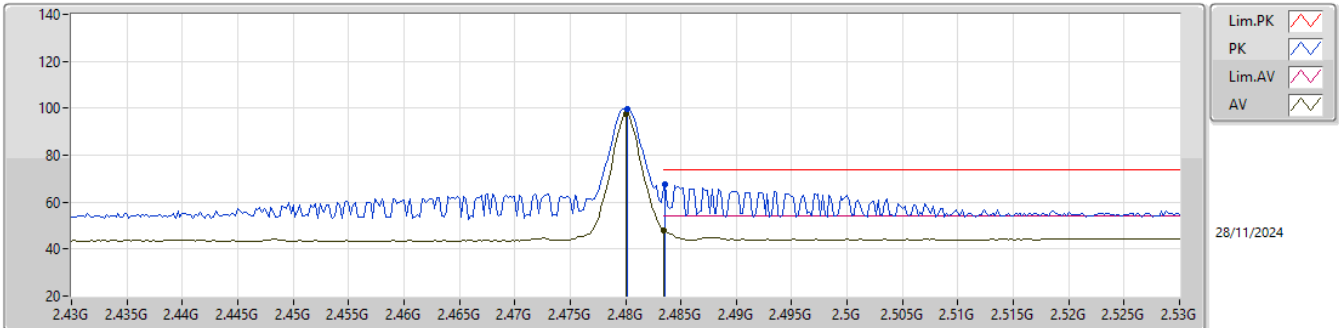


EUT_Z_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88008G	58.53	74.00	-15.47	51.78	3	Horizontal	171	2.66	-	32.82	6.51	32.58			
AV	4.88G	47.17	54.00	-6.83	40.42	3	Horizontal	171	2.66	-	32.82	6.51	32.58			
PK	7.3195G	56.51	74.00	-17.49	43.62	3	Horizontal	167	1.00	-	37.54	7.98	32.63			
AV	7.31941G	45.43	54.00	-8.57	32.54	3	Horizontal	167	1.00	-	37.54	7.98	32.63			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

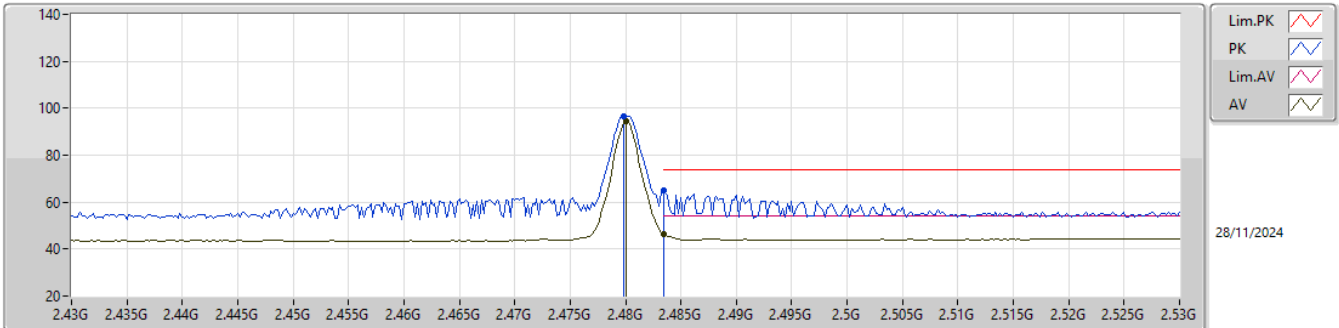


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4802G	99.48	Inf	-Inf	67.87	3	Vertical	75	1.80	-	27.80	3.81	-			
AV	2.48G	97.71	Inf	-Inf	66.10	3	Vertical	75	1.80	-	27.80	3.81	-			
PK	2.4836G	67.38	74.00	-6.62	35.73	3	Vertical	75	1.80	-	27.84	3.81	-			
AV	2.4835G	48.04	54.00	-5.96	16.39	3	Vertical	75	1.80	-	27.84	3.81	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

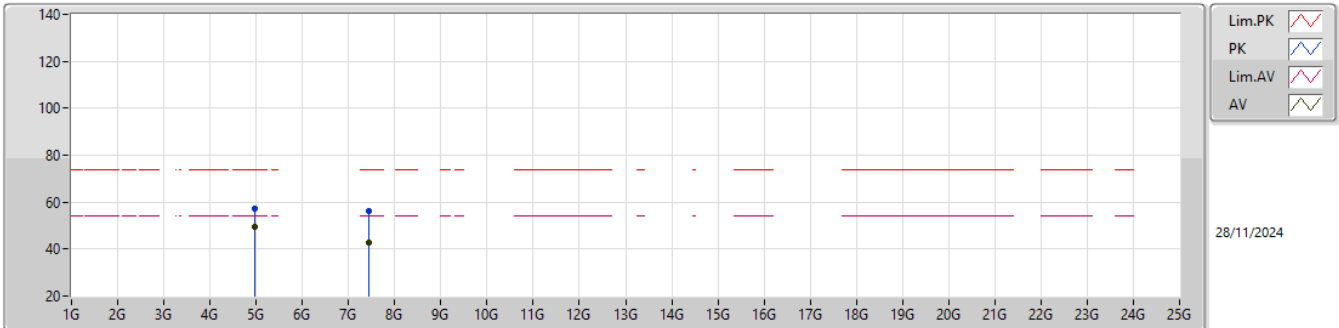


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.4798G	96.48	Inf	-Inf	64.87	3	Horizontal	134	1.80	-	27.80	3.81	-				
AV	2.48G	94.73	Inf	-Inf	63.12	3	Horizontal	134	1.80	-	27.80	3.81	-				
PK	2.4835G	64.89	74.00	-9.11	33.24	3	Horizontal	134	1.80	-	27.84	3.81	-				
AV	2.4835G	46.49	54.00	-7.51	14.84	3	Horizontal	134	1.80	-	27.84	3.81	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

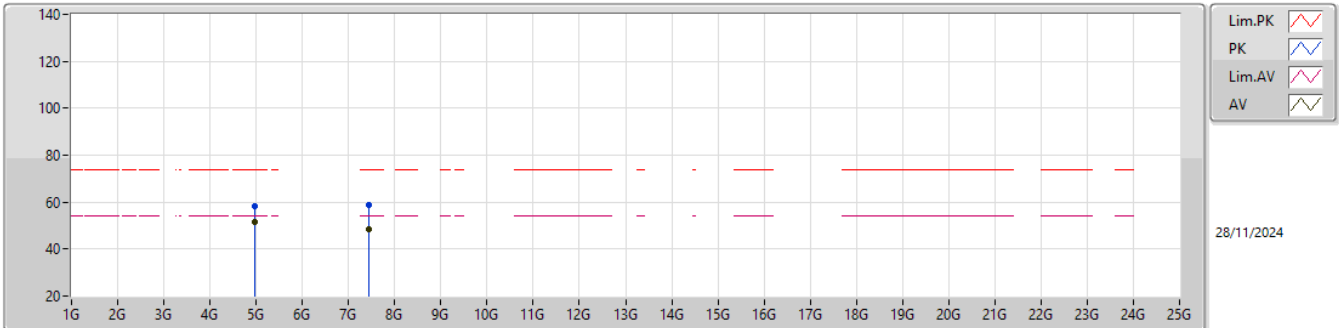


EUT_Z_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9594G	57.22	74.00	-16.78	50.20	3	Vertical	350	1.80	-	32.98	6.62	32.58			
AV	4.96006G	49.37	54.00	-4.63	42.35	3	Vertical	350	1.80	-	32.98	6.62	32.58			
PK	7.44106G	56.11	74.00	-17.89	43.11	3	Vertical	275	1.80	-	37.52	8.06	32.58			
AV	7.4408G	42.81	54.00	-11.19	29.81	3	Vertical	275	1.80	-	37.52	8.06	32.58			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

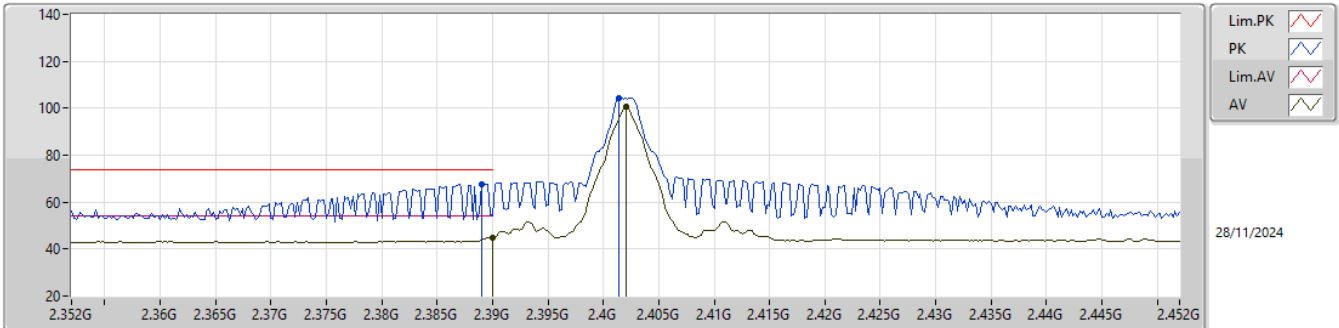


EUT_Z_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.96058G	58.44	74.00	-15.56	51.42	3	Horizontal	330	2.12	-	32.98	6.62	32.58			
AV	4.96006G	51.36	54.00	-2.64	44.34	3	Horizontal	330	2.12	-	32.98	6.62	32.58			
PK	7.43913G	58.70	74.00	-15.30	45.71	3	Horizontal	29	1.00	-	37.52	8.05	32.58			
AV	7.43943G	48.21	54.00	-5.79	35.21	3	Horizontal	29	1.00	-	37.52	8.06	32.58			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

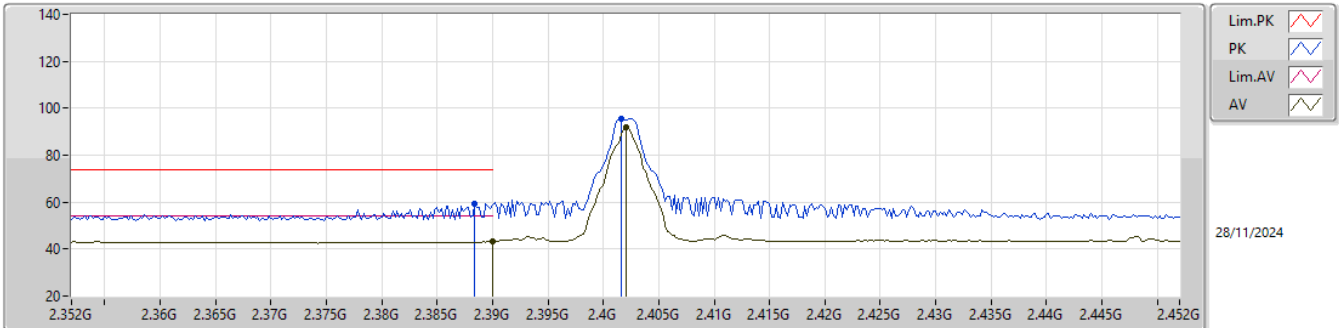


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.389G	67.75	74.00	-6.25	36.64	3	Vertical	20	1.00	-	27.39	3.72	-			
AV	2.39G	44.83	54.00	-9.17	13.71	3	Vertical	20	1.00	-	27.40	3.72	-			
PK	2.4014G	104.41	Inf	-Inf	73.19	3	Vertical	20	1.00	-	27.50	3.72	-			
AV	2.402G	100.58	Inf	-Inf	69.36	3	Vertical	20	1.00	-	27.50	3.72	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

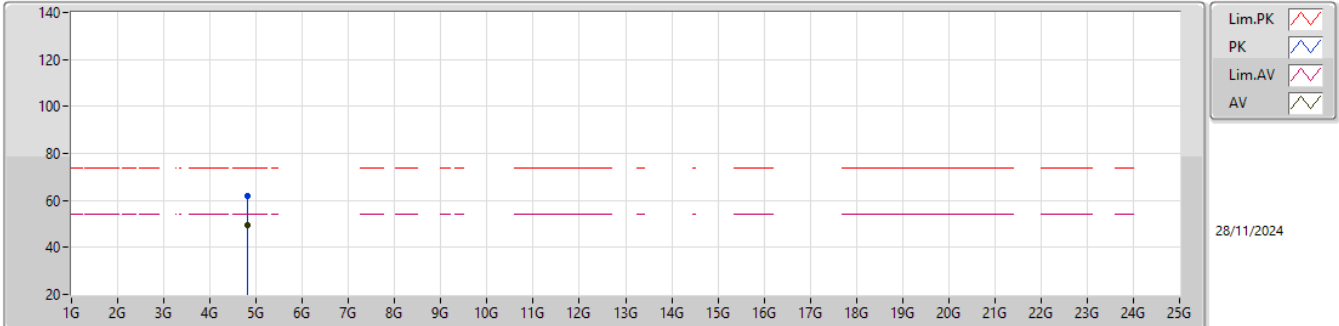


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3884G	59.46	74.00	-14.54	28.36	3	Horizontal	2	1.57	-	27.38	3.72	-			
AV	2.39G	43.22	54.00	-10.78	12.10	3	Horizontal	2	1.57	-	27.40	3.72	-			
PK	2.4016G	95.67	Inf	-Inf	64.45	3	Horizontal	2	1.57	-	27.50	3.72	-			
AV	2.402G	91.95	Inf	-Inf	60.73	3	Horizontal	2	1.57	-	27.50	3.72	-			

2.4-2.4835GHz_BT-LE(2Mbps)

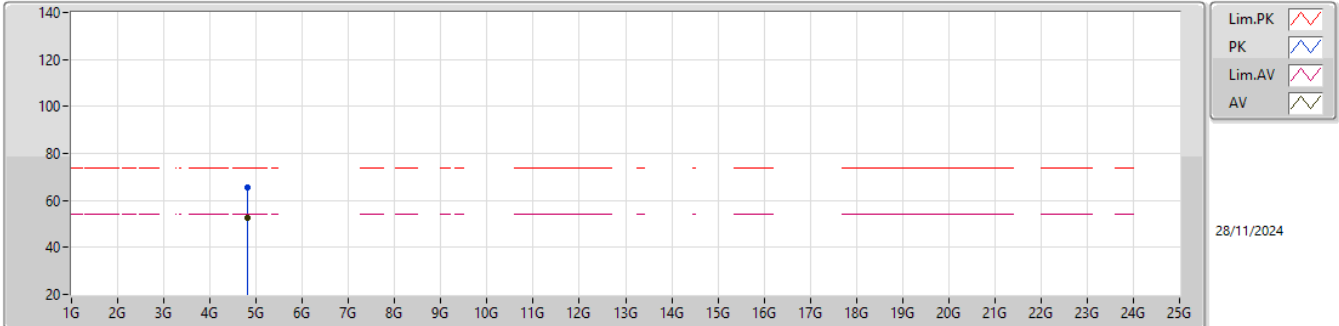
2402MHz_TX


EUT_Z_1TX
Setting 63
01-C-J-10

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	4.80401G	62.06	74.00	-11.94	55.70	3	Vertical	131	2.80	-	32.52	6.41	32.57			
AV	4.80302G	49.53	54.00	-4.47	43.19	3	Vertical	131	2.80	-	32.51	6.40	32.57			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

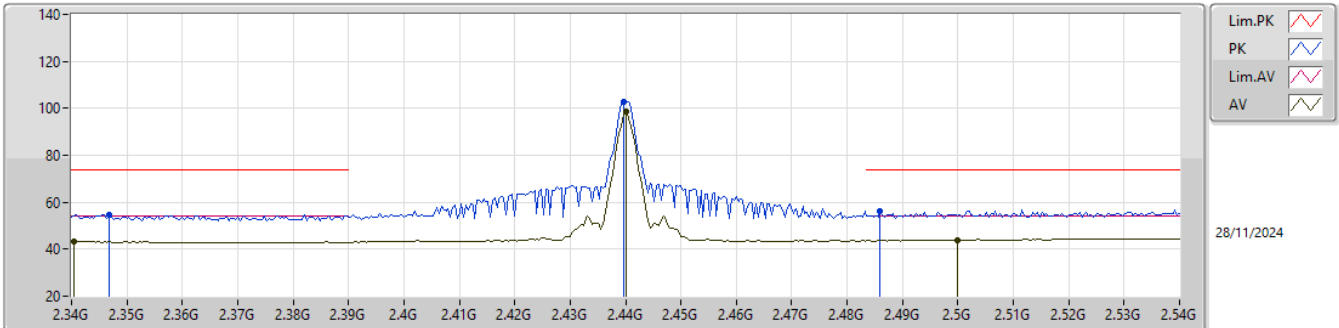


EUT_Z_1TX
Setting 63
01-C-J-10

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	4.80399G	65.33	74.00	-8.67	58.97	3	Horizontal	175	2.58	-	32.52	6.41	32.57			
AV	4.80305G	52.47	54.00	-1.53	46.13	3	Horizontal	175	2.58	-	32.51	6.40	32.57			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

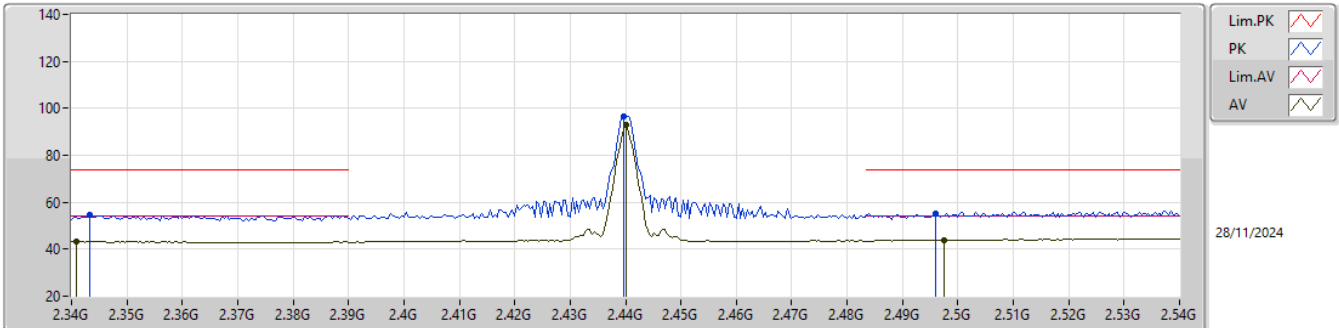


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3468G	54.59	74.00	-19.41	23.41	3	Vertical	46	1.19	-	27.47	3.71	-				
AV	2.3404G	43.27	54.00	-10.73	12.16	3	Vertical	46	1.19	-	27.40	3.71	-				
PK	2.4396G	102.87	Inf	-Inf	71.51	3	Vertical	46	1.19	-	27.60	3.76	-				
AV	2.44G	98.87	Inf	-Inf	67.51	3	Vertical	46	1.19	-	27.60	3.76	-				
PK	2.486G	56.24	74.00	-17.76	24.57	3	Vertical	46	1.19	-	27.86	3.81	-				
AV	2.5G	43.95	54.00	-10.05	12.12	3	Vertical	46	1.19	-	28.00	3.83	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

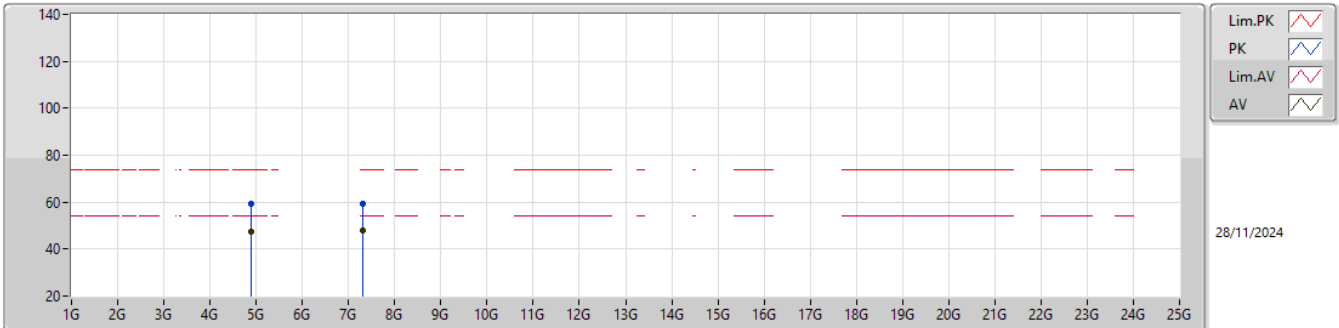


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3432G	54.45	74.00	-19.55	23.31	3	Horizontal	330	1.18	-	27.43	3.71	-			
AV	2.3408G	43.28	54.00	-10.72	12.16	3	Horizontal	330	1.18	-	27.41	3.71	-			
PK	2.4396G	96.57	Inf	-Inf	65.21	3	Horizontal	330	1.18	-	27.60	3.76	-			
AV	2.44G	92.73	Inf	-Inf	61.37	3	Horizontal	330	1.18	-	27.60	3.76	-			
PK	2.496G	55.33	74.00	-18.67	23.54	3	Horizontal	330	1.18	-	27.96	3.83	-			
AV	2.4976G	43.84	54.00	-10.16	12.03	3	Horizontal	330	1.18	-	27.98	3.83	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

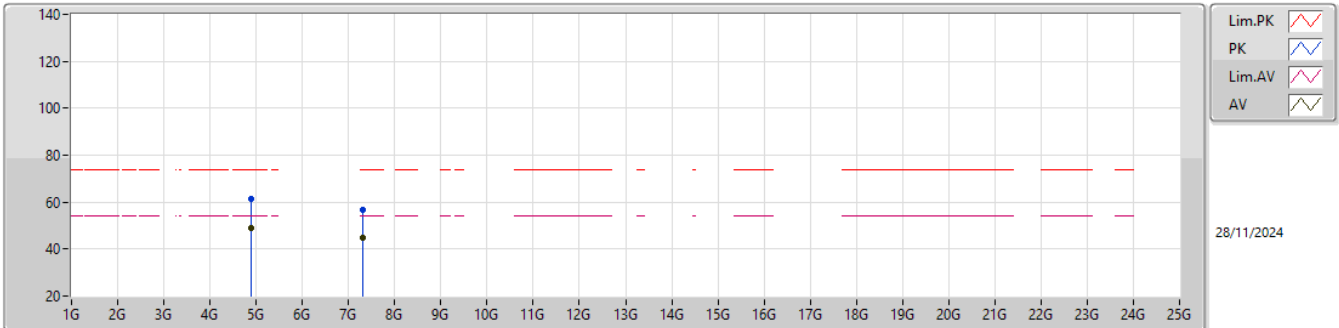


EUT_Z_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87996G	59.29	74.00	-14.71	52.54	3	Vertical	242	1.01	-	32.82	6.51	32.58			
AV	4.88103G	47.27	54.00	-6.73	40.52	3	Vertical	242	1.01	-	32.82	6.51	32.58			
PK	7.31984G	59.21	74.00	-14.79	46.32	3	Vertical	216	2.86	-	37.54	7.98	32.63			
AV	7.32122G	47.81	54.00	-6.19	34.92	3	Vertical	216	2.86	-	37.54	7.98	32.63			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

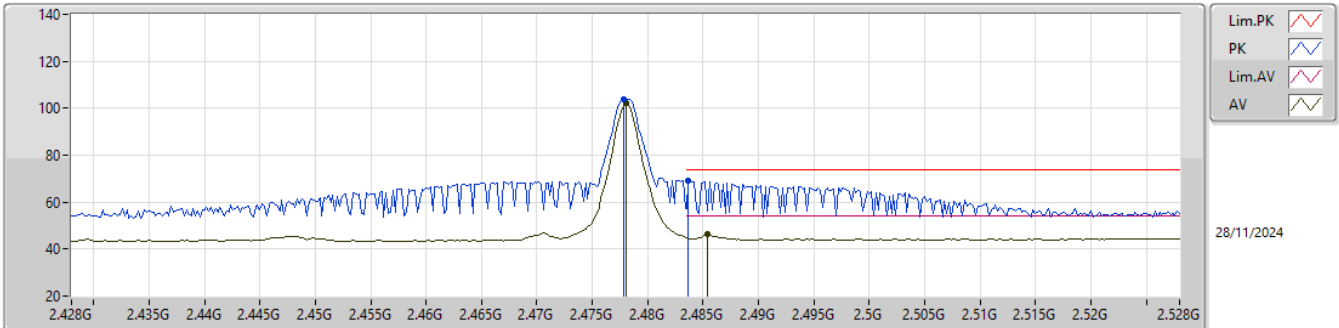


EUT_Z_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.88017G	61.35	74.00	-12.65	54.60	3	Horizontal	173	2.62	-	32.82	6.51	32.58				
AV	4.88101G	49.17	54.00	-4.83	42.42	3	Horizontal	173	2.62	-	32.82	6.51	32.58				
PK	7.31837G	56.81	74.00	-17.19	43.92	3	Horizontal	159	1.05	-	37.54	7.98	32.63				
AV	7.31875G	44.81	54.00	-9.19	31.92	3	Horizontal	159	1.05	-	37.54	7.98	32.63				

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

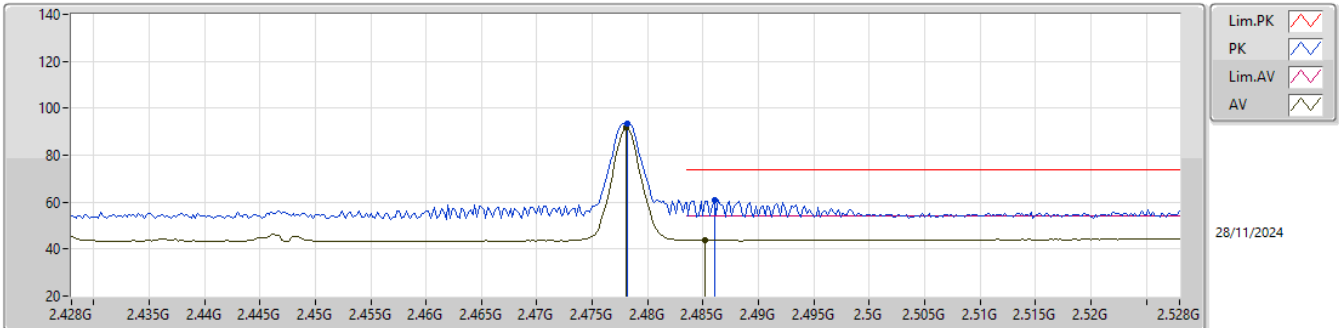


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.4778G	103.72	Inf	-Inf	72.13	3	Vertical	23	1.23	-	27.78	3.81	-				
AV	2.478G	102.01	Inf	-Inf	70.42	3	Vertical	23	1.23	-	27.78	3.81	-				
PK	2.4836G	69.03	74.00	-4.97	37.38	3	Vertical	23	1.23	-	27.84	3.81	-				
AV	2.4854G	46.14	54.00	-7.86	14.48	3	Vertical	23	1.23	-	27.85	3.81	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

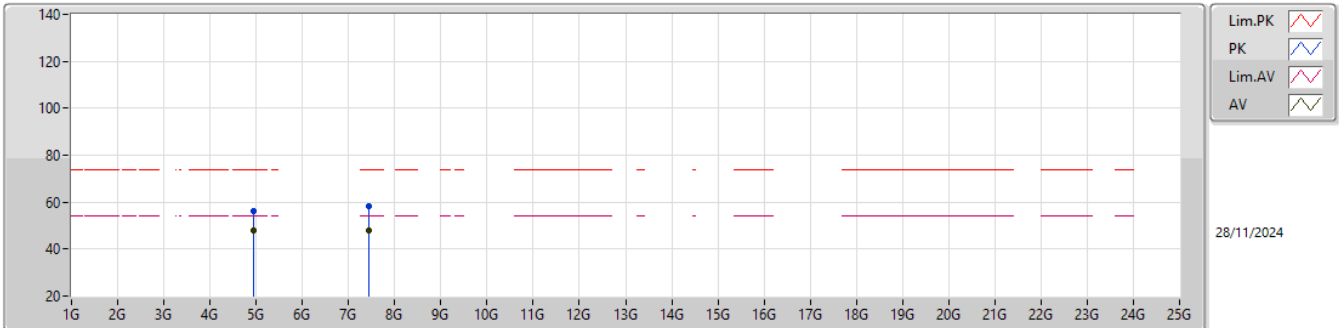


EUT_X_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4782G	93.47	Inf	-Inf	61.88	3	Horizontal	326	1.33	-	27.78	3.81	-			
AV	2.478G	91.74	Inf	-Inf	60.15	3	Horizontal	326	1.33	-	27.78	3.81	-			
PK	2.486G	60.95	74.00	-13.05	29.28	3	Horizontal	326	1.33	-	27.86	3.81	-			
AV	2.4852G	43.95	54.00	-10.05	12.29	3	Horizontal	326	1.33	-	27.85	3.81	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

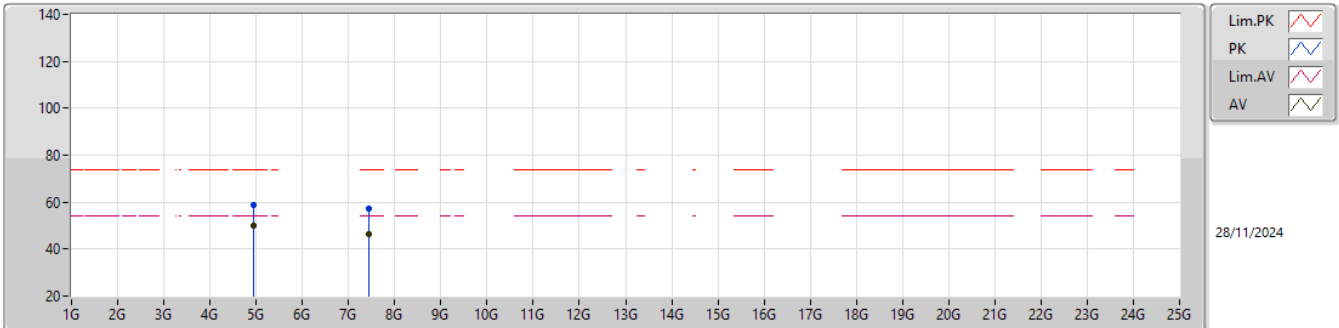


EUT_Z_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.95608G	56.34	74.00	-17.66	49.32	3	Vertical	318	1.02	-	32.99	6.61	32.58			
AV	4.956G	47.85	54.00	-6.15	40.83	3	Vertical	318	1.02	-	32.99	6.61	32.58			
PK	7.43416G	58.53	74.00	-15.47	45.54	3	Vertical	0	1.01	-	37.53	8.05	32.59			
AV	7.4334G	47.86	54.00	-6.14	34.87	3	Vertical	0	1.01	-	37.53	8.05	32.59			

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX



EUT_Z_1TX
Setting 63
01-C-J-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.95602G	58.84	74.00	-15.16	51.82	3	Horizontal	180	1.00	-	32.99	6.61	32.58				
AV	4.95604G	50.09	54.00	-3.91	43.07	3	Horizontal	180	1.00	-	32.99	6.61	32.58				
PK	7.43484G	57.39	74.00	-16.61	44.39	3	Horizontal	294	1.01	-	37.53	8.05	32.58				
AV	7.43468G	46.33	54.00	-7.67	33.33	3	Horizontal	294	1.01	-	37.53	8.05	32.58				