Testing Laboratory 3785

FCC Radio Test Report

FCC ID	:	**VUI-M2U350**
Equipment	:	**5G FR2 ODU**
Brand Name	:	**PEGATRON**
Model Name	:	**M2U350,M2U300, M2UXXX-XXX(where X can be a combination of alphanumeric, none or blank)**
Applicant	:	**PEGATRON CORPORATION 5F., No.76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY, Taiwan, 11259**
Manufacturer	:	**PEGATRON CORPORATION 5F., No.76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY, Taiwan, 11259**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Jul. 04, 2024, and testing was started from Jul. 10, 2024 and completed on Aug. 02, 2024. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR470412AL	01	Initial issue of report	Sep. 03, 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	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Ben Tseng

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX

Note:
- Bluetooth LE uses a GFSK (1Mbps) modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	INPAQ	WA-P-LA-11-004(1415-0AQ4000)	PIFA	I-PEX

Ant.	Port	2.4G/BT Gain (dBi)						
		2300 MHz	2350 MHz	2400 MHz	2450 MHz	2500 MHz	2550 MHz	2600 MHz
1	1	3.83	3.19	2.84	4.45	4.46	4.81	4.73

Note 1: The EUT has one antenna.

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (1TX/1RX)

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

For BT function:

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

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

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.63	2.01	393.75u	3k

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

1.1.5 Table for Multiple Listing

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

Model Name	Description
M2U350	All the models are identical, the different model served as marketing strategy.
M2U300	
M2UXXX-XXX(where X can be a combination of alphanumeric, none or blank)	

From the above models, model: M2U350 was selected as representative model for the test and its data was recorded in this report.

1.2 Testing Applied Standards

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

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

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

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua **(TAF:** 3785**)**	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Wayne Chiu	22.2~22.9°C / 52~57%	02/Aug/2024
RF Conducted	TH01-HY	Johnny Yu	23.4~23.9°C / 53~55%	12/Jul/2024
☒ Wenhua 3rd. **(TAF:** 3785**)**	**ADD:** No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
Radiated below 1G	03CH25-HY	Daniel Lin	23.0~25.0°C / 53~57%	31/Jul/2024
Radiated above 1G	03CH24-HY	Daniel Lin	21.2~22.8°C / 52~58%	10/Jul/2024~11Jul/2024

1.4 Measurement Uncertainty

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

Test Items	**Uncertainty**	**Remark**
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Dos V6.1

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	30
2440MHz	30
2480MHz	30

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	PoE mode

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

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

2.3 Accessories

Accessories				
PoE injector	Brand Name	RISUNIC	Model Name	RP029-5601080YX
	Power Rating	I/P: 100- 240Vac, 1.5 A, O/P: 56Vdc, 1.08 A, 60.48W		
AC power cord	Brand Name	HONGLIN	Model Name	200-18511
	Power Cord	0.6m cable		
Bottom port cover with flat Ethernet cable	Brand Name	TUNG-LI	Model Name	CT041-046
RJ45 ethernet cable	Brand Name	TUNG-LI	Model Name	6F424-003

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

2.4 Support Equipment

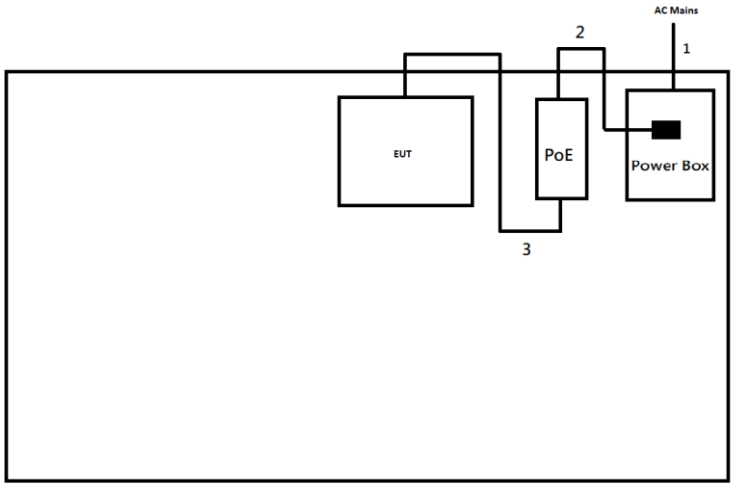
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	AC power cable	Power Sync	-	-	-

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

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	AC power cable	Power Sync	-	-	-

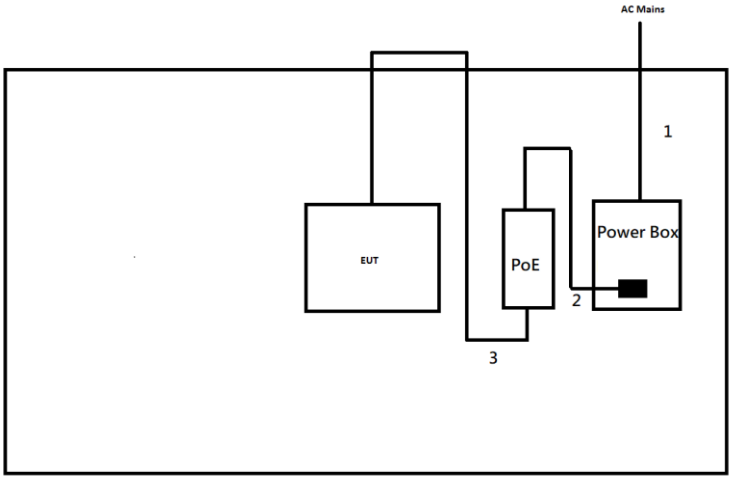
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)
1	AC power cable	No	1.0
2	AC power cable	No	0.6
3	RJ45 Cable	No	2.0

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)
1	AC power cable	No	1.8
2	AC power cable	No	0.6
3	RJ45 Cable	No	2.0

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

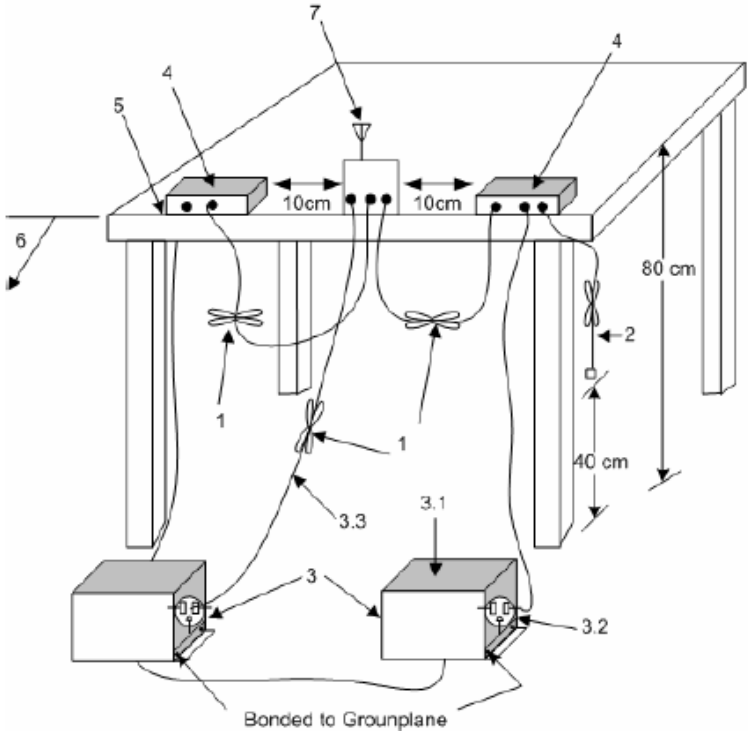
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup

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 50Ω 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.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

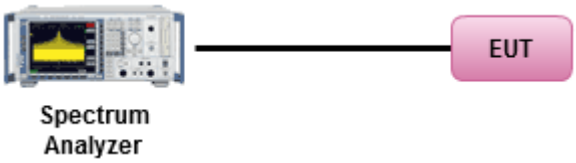
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
	☐ Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


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} ≤ 6 dBi, then P_{Out} ≤ 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 + 8dB dBm	
e.i.r.p. Power Limit:			
▪ 2400-2483.5 MHz Band			
	▪ Point-to-multipoint systems (P2M): P_{eirp} ≤ 36 dBm (4 W)		
	▪ Point-to-point systems (P2P): P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX}]) dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Overlap beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Aggregate power on all beams: P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX} + 8]) dBm	
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.			

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

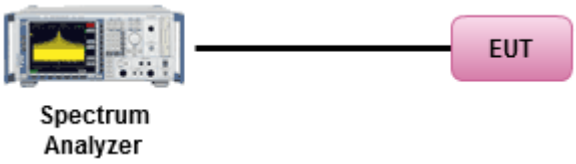
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

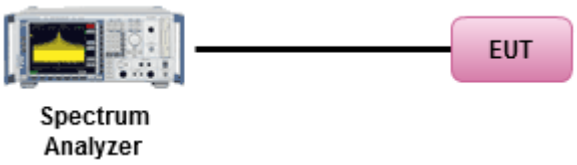
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


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 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.

3.6.2 Measuring Instruments

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

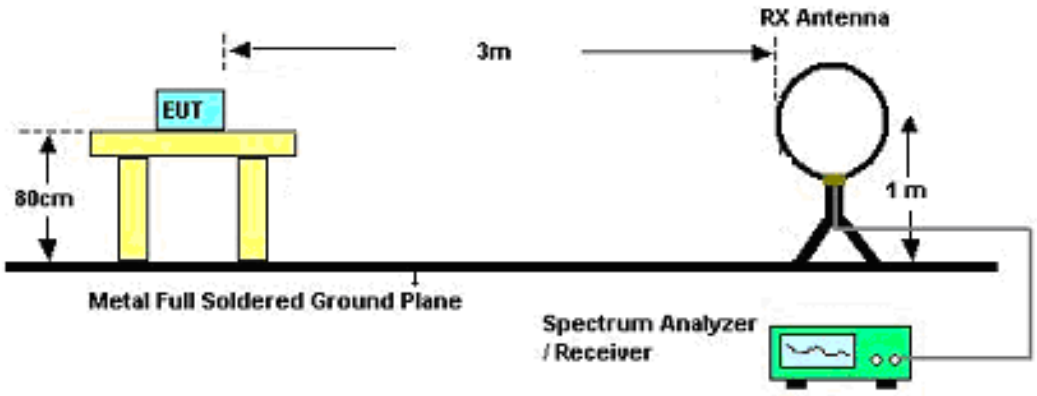
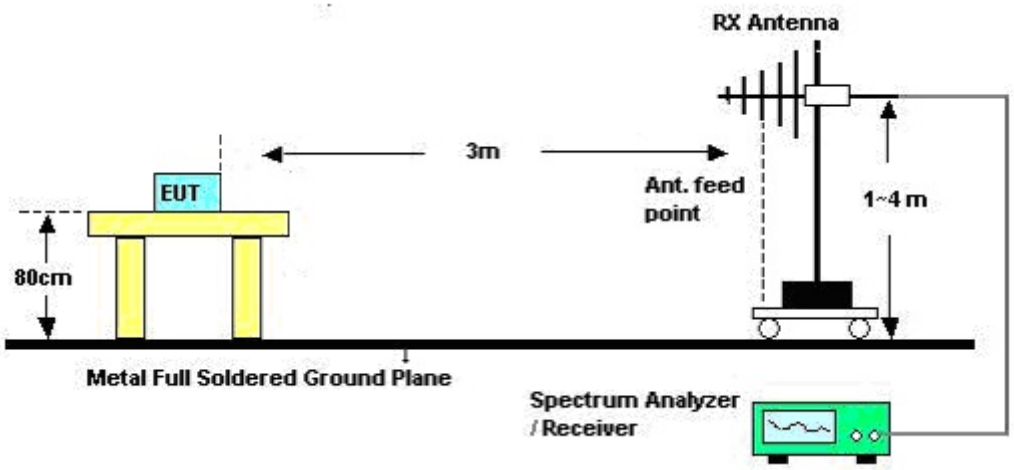
3.6.3 Test Procedures

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

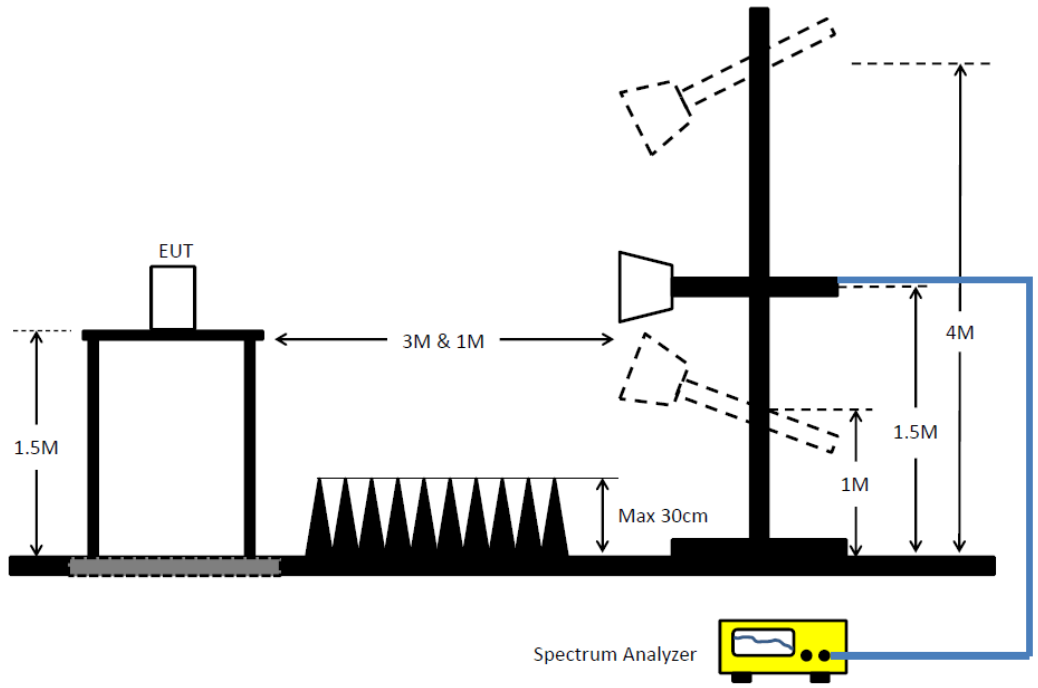
3.6.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

3.6.5 Test Setup

Emissions in Restricted Frequency Bands
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Artificial-Mains Network	SCHWARZBECK	NSLK 8128 RC	05135	9kHz ~ 30MHz	11/Sep/2023	10/Sep/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	18/Oct/2023	17/Oct/2024
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	30/Oct/2023	29/Oct/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15247_FS	Sporton	V5.11.18	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH25-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	30MHz~1GHz 3m	03/Aug/2023	02/Aug/2024
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	17/Nov/2023	16/Nov/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	30/May/2024	29/May/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	24/Apr/2024	23/Apr/2025
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	24/May/2024	23/May/2025
SENSE-15247-FS	Sporton	V5.11.18	NA	NA	NA	NA

Instrument for Radiated Test (03CH24-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	03/Aug/2023	02/Aug/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	10/Aug/2023	09/Aug/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	17/Aug/2023	16/Aug/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	05/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 102	CB002	1GHz~40GHz	19/Jun/2024	18/Jun/2025
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	10/Aug/2023	09/Aug/2024
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.18	NA	NA	NA	NA

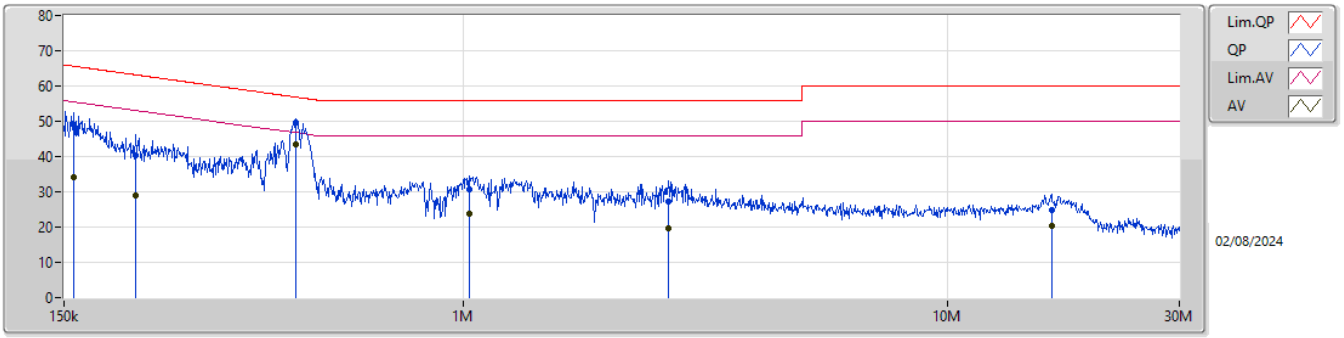
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	451.436k	43.58	46.84	-3.26	Line

Result

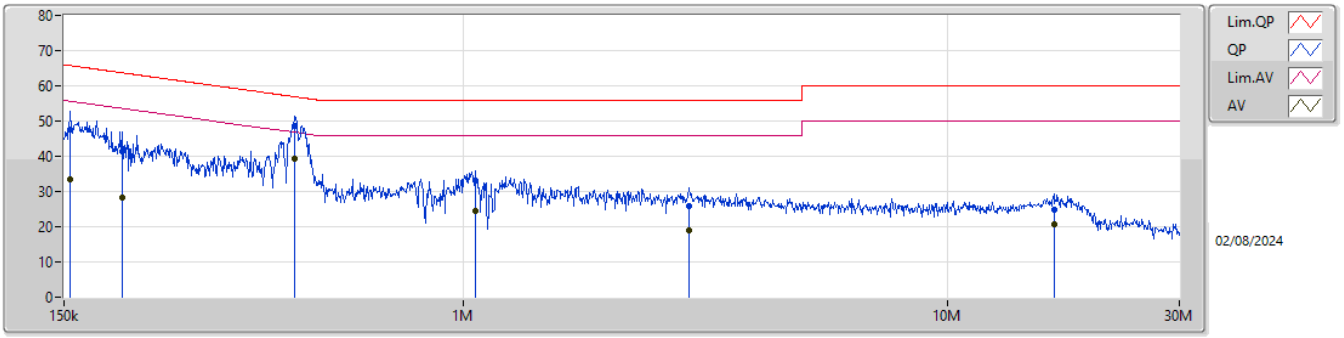
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	156.734k	48.99	65.64	-16.65	Line	-
Mode 1	Pass	AV	156.734k	34.21	55.64	-21.43	Line	-
Mode 1	Pass	QP	210.599k	40.23	63.19	-22.96	Line	-
Mode 1	Pass	AV	210.599k	28.86	53.19	-24.33	Line	-
Mode 1	Pass	QP	451.436k	49.58	56.84	-7.26	Line	-
Mode 1	Pass	AV	451.436k	43.58	46.84	-3.26	Line	-
Mode 1	Pass	QP	1.027M	30.71	56.00	-25.29	Line	-
Mode 1	Pass	AV	1.027M	23.65	46.00	-22.35	Line	-
Mode 1	Pass	QP	2.646M	27.30	56.00	-28.70	Line	-
Mode 1	Pass	AV	2.646M	19.64	46.00	-26.36	Line	-
Mode 1	Pass	QP	16.338M	24.73	60.00	-35.27	Line	-
Mode 1	Pass	AV	16.338M	20.50	50.00	-29.50	Line	-
Mode 1	Pass	QP	154.251k	47.44	65.77	-18.33	Neutral	-
Mode 1	Pass	AV	154.251k	33.50	55.77	-22.27	Neutral	-
Mode 1	Pass	QP	198.359k	41.44	63.69	-22.25	Neutral	-
Mode 1	Pass	AV	198.359k	28.44	53.69	-25.25	Neutral	-
Mode 1	Pass	QP	449.637k	48.58	56.88	-8.30	Neutral	-
Mode 1	Pass	AV	449.637k	39.32	46.88	-7.56	Neutral	-
Mode 1	Pass	QP	1.057M	32.96	56.00	-23.04	Neutral	-
Mode 1	Pass	AV	1.057M	24.36	46.00	-21.64	Neutral	-
Mode 1	Pass	QP	2.924M	25.81	56.00	-30.19	Neutral	-
Mode 1	Pass	AV	2.924M	18.85	46.00	-27.15	Neutral	-
Mode 1	Pass	QP	16.535M	24.96	60.00	-35.04	Neutral	-
Mode 1	Pass	AV	16.535M	20.84	50.00	-29.16	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	156.734k	48.99	65.64	-16.65	9.87	Line	-	39.12	0.05	0.07	9.75
AV	156.734k	34.21	55.64	-21.43	9.87	Line	-	24.34	0.05	0.07	9.75
QP	210.599k	40.23	63.19	-22.96	9.83	Line	-	30.40	0.05	0.09	9.69
AV	210.599k	28.86	53.19	-24.33	9.83	Line	-	19.03	0.05	0.09	9.69
QP	451.436k	49.58	56.84	-7.26	9.94	Line	-	39.64	0.05	0.12	9.77
AV	451.436k	43.58	46.84	-3.26	9.94	Line	-	33.64	0.05	0.12	9.77
QP	1.027M	30.71	56.00	-25.29	9.95	Line	-	20.76	0.06	0.09	9.80
AV	1.027M	23.65	46.00	-22.35	9.95	Line	-	13.70	0.06	0.09	9.80
QP	2.646M	27.30	56.00	-28.70	9.99	Line	-	17.31	0.10	0.09	9.80
AV	2.646M	19.64	46.00	-26.36	9.99	Line	-	9.65	0.10	0.09	9.80
QP	16.338M	24.73	60.00	-35.27	10.08	Line	-	14.65	0.15	0.10	9.83
AV	16.338M	20.50	50.00	-29.50	10.08	Line	-	10.42	0.15	0.10	9.83

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.251k	47.44	65.77	-18.33	9.87	Neutral	-	37.57	0.05	0.07	9.75
AV	154.251k	33.50	55.77	-22.27	9.87	Neutral	-	23.63	0.05	0.07	9.75
QP	198.359k	41.44	63.69	-22.25	9.81	Neutral	-	31.63	0.04	0.09	9.68
AV	198.359k	28.44	53.69	-25.25	9.81	Neutral	-	18.63	0.04	0.09	9.68
QP	449.637k	48.58	56.88	-8.30	9.94	Neutral	-	38.64	0.05	0.12	9.77
AV	449.637k	39.32	46.88	-7.56	9.94	Neutral	-	29.38	0.05	0.12	9.77
QP	1.057M	32.96	56.00	-23.04	9.95	Neutral	-	23.01	0.06	0.09	9.80
AV	1.057M	24.36	46.00	-21.64	9.95	Neutral	-	14.41	0.06	0.09	9.80
QP	2.924M	25.81	56.00	-30.19	9.98	Neutral	-	15.83	0.10	0.09	9.79
AV	2.924M	18.85	46.00	-27.15	9.98	Neutral	-	8.87	0.10	0.09	9.79
QP	16.535M	24.96	60.00	-35.04	10.11	Neutral	-	14.85	0.18	0.10	9.83
AV	16.535M	20.84	50.00	-29.16	10.11	Neutral	-	10.73	0.18	0.10	9.83

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)	740k	1.047M	1M05F1D	727.5k	1.039M

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

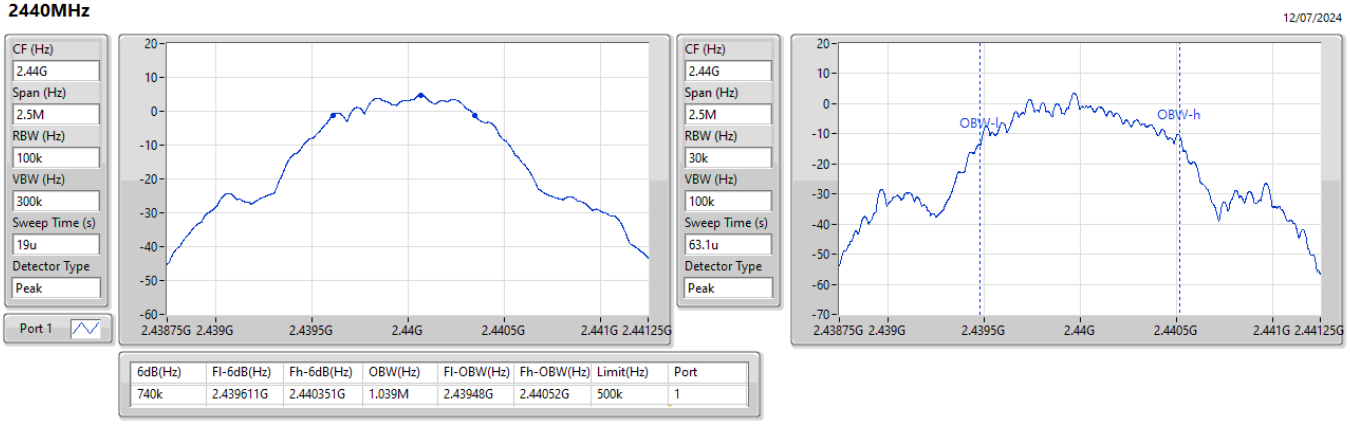
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	727.5k	1.047M
2440MHz	Pass	500k	740k	1.039M
2480MHz	Pass	500k	738.75k	1.043M

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**

2440MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
740k	2.439611G	2.440351G	1.039M	2.43948G	2.44052G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	6.43	0.00440

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.84	5.73	30.00
2440MHz	Pass	4.45	6.43	30.00
2480MHz	Pass	4.46	6.05	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)	-9.16

RBW = 3kHz;

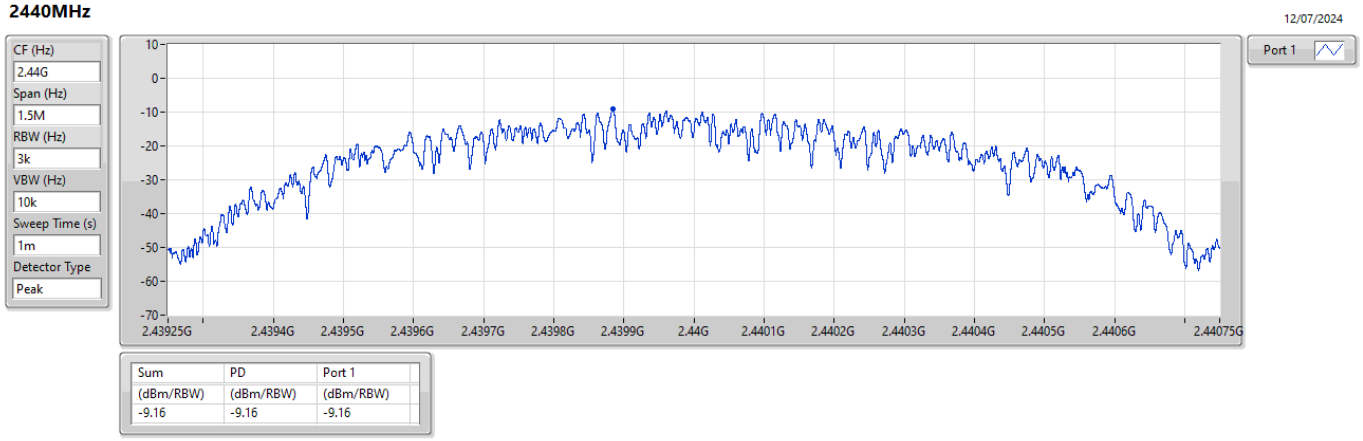
Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.84	-10.61	8.00
2440MHz	Pass	4.45	-9.16	8.00
2480MHz	Pass	4.46	-9.80	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**

2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.16	-9.16	-9.16

Summary

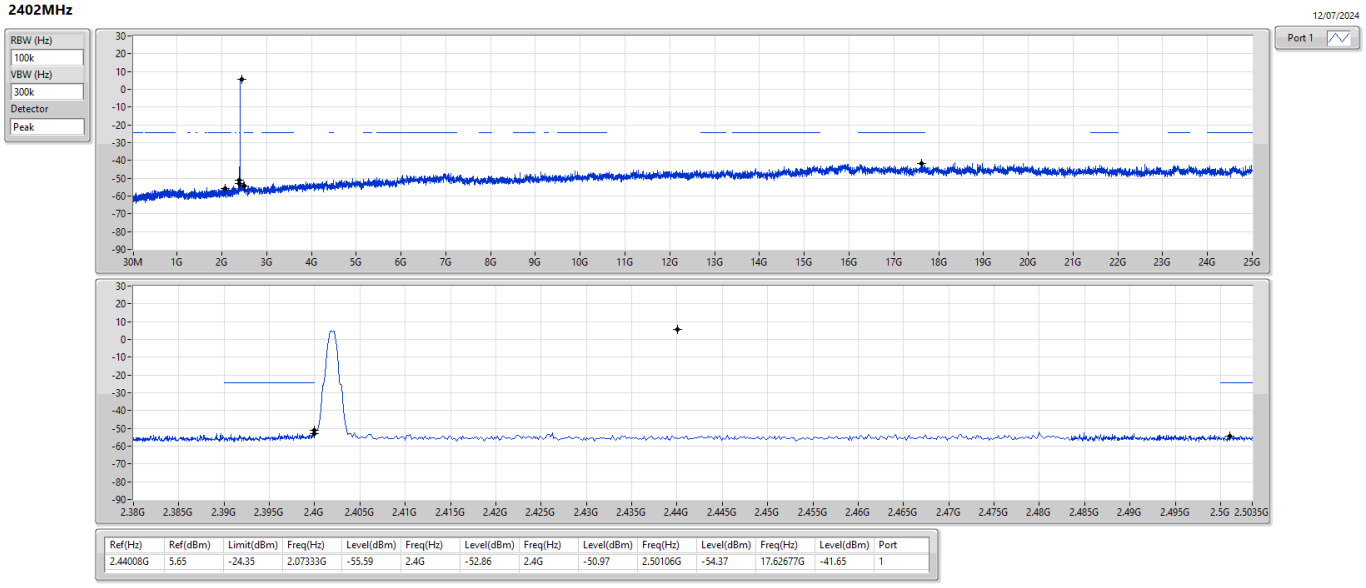
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.44008G	5.65	-24.35	2.07333G	-55.59	2.4G	-52.86	2.4G	-50.97	2.50106G	-54.37	17.62677G	-41.65	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	2.44008G	5.65	-24.35	2.07333G	-55.59	2.4G	-52.86	2.4G	-50.97	2.50106G	-54.37	17.62677G	-41.65	1
2440MHz	Pass	2.44008G	5.65	-24.35	954.73M	-55.04	2.39192G	-53.72	2.4G	-55.47	2.50022G	-53.36	15.28714G	-41.41	1
2480MHz	Pass	2.44008G	5.65	-24.35	1.91823G	-54.72	2.39752G	-53.48	2.4G	-56.17	2.50206G	-53.85	15.25058G	-41.56	1

2.4-2.4835GHz_BT-LE(1Mbps) CSENdB-DTS

2402MHz



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
2.44008G	5.65	-24.35	2.07333G	-55.59	2.4G	-52.86	2.4G	-50.97	2.50106G	-54.37	17.62677G	-41.65	1

Summary

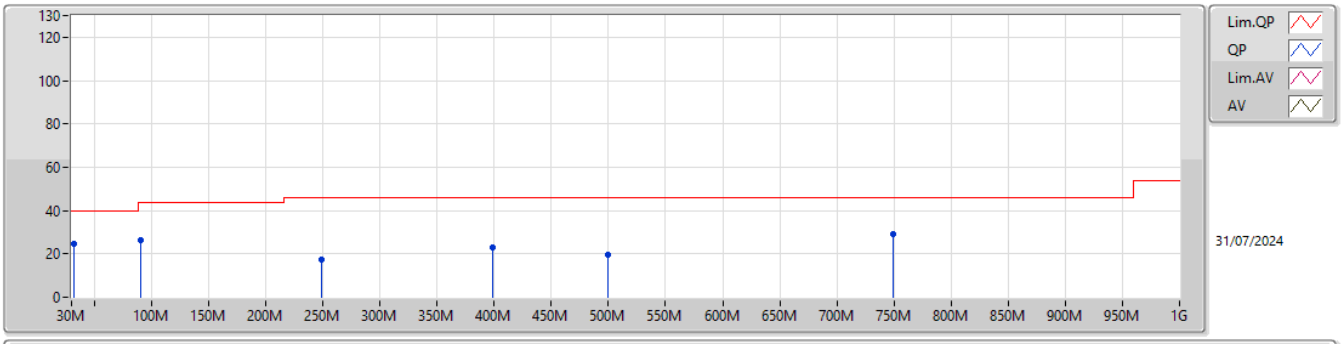
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	PK	800.18M	31.07	46.00	-14.93	3	Horizontal	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	31.94M	24.78	40.00	-15.22	3	Vertical	360	1.00	-
2440MHz	Pass	PK	90.14M	26.24	43.50	-17.26	3	Vertical	360	1.00	-
2440MHz	Pass	PK	249.22M	17.29	46.00	-28.71	3	Vertical	360	1.00	-
2440MHz	Pass	PK	398.6M	22.73	46.00	-23.27	3	Vertical	360	1.00	-
2440MHz	Pass	PK	499.48M	19.62	46.00	-26.38	3	Vertical	360	1.00	-
2440MHz	Pass	PK	749.74M	28.88	46.00	-17.12	3	Vertical	360	1.00	-
2440MHz	Pass	PK	31.94M	16.45	40.00	-23.55	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	125.06M	27.01	43.50	-16.49	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	249.22M	22.65	46.00	-23.35	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	499.48M	23.26	46.00	-22.74	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	749.74M	30.65	46.00	-15.35	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	800.18M	31.07	46.00	-14.93	3	Horizontal	0	1.00	-

2.4-2.4835GHz_BT-LE(1Mbps)

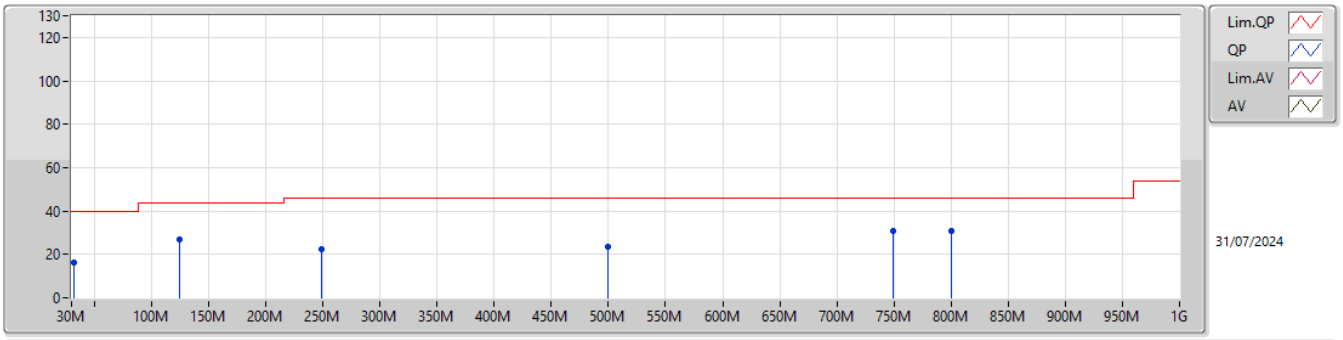
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	31.94M	24.78	40.00	-15.22	-20.11	3	Vertical	360	1.00	44.89	23.74	0.45	44.30
PK	90.14M	26.24	43.50	-17.26	-28.68	3	Vertical	360	1.00	54.92	15.09	0.84	44.61
PK	249.22M	17.29	46.00	-28.71	-24.71	3	Vertical	360	1.00	42.00	18.51	1.15	44.37
PK	398.6M	22.73	46.00	-23.27	-20.65	3	Vertical	360	1.00	43.38	21.92	1.45	44.02
PK	499.48M	19.62	46.00	-26.38	-18.22	3	Vertical	360	1.00	37.84	24.00	1.65	43.87
PK	749.74M	28.88	46.00	-17.12	-13.43	3	Vertical	360	1.00	42.31	28.33	2.02	43.78

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	31.94M	16.45	40.00	-23.55	-20.11	3	Horizontal	0	1.00	36.56	23.74	0.45	44.30
PK	125.06M	27.01	43.50	-16.49	-25.95	3	Horizontal	0	1.00	52.96	17.74	0.87	44.56
PK	249.22M	22.65	46.00	-23.35	-24.71	3	Horizontal	0	1.00	47.36	18.51	1.15	44.37
PK	499.48M	23.26	46.00	-22.74	-18.22	3	Horizontal	0	1.00	41.48	24.00	1.65	43.87
PK	749.74M	30.65	46.00	-15.35	-13.43	3	Horizontal	0	1.00	44.08	28.33	2.02	43.78
PK	800.18M	31.07	46.00	-14.93	-13.67	3	Horizontal	0	1.00	44.74	27.95	2.09	43.71

Summary

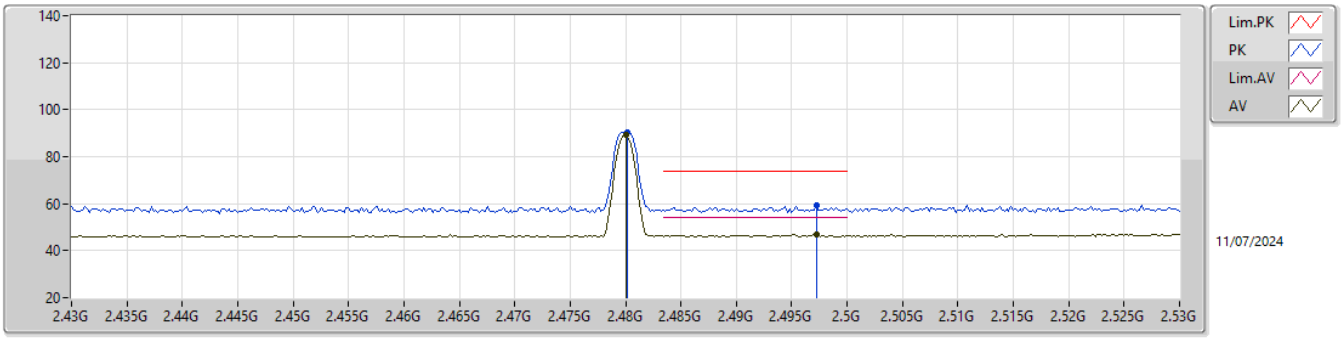
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4928G	47.02	54.00	-6.98	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3822G	46.40	54.00	-7.60	3	Vertical	330	2.91
2402MHz	Pass	AV	2.402G	91.70	Inf	-Inf	3	Vertical	330	2.91
2402MHz	Pass	PK	2.3642G	58.45	74.00	-15.55	3	Vertical	330	2.91
2402MHz	Pass	PK	2.4022G	92.82	Inf	-Inf	3	Vertical	330	2.91
2402MHz	Pass	AV	2.3854G	46.56	54.00	-7.44	3	Horizontal	3	1.00
2402MHz	Pass	AV	2.402G	100.75	Inf	-Inf	3	Horizontal	3	1.00
2402MHz	Pass	PK	2.367G	58.49	74.00	-15.51	3	Horizontal	3	1.00
2402MHz	Pass	PK	2.4022G	101.90	Inf	-Inf	3	Horizontal	3	1.00
2402MHz	Pass	AV	4.80658G	31.57	54.00	-22.43	3	Vertical	74	1.50
2402MHz	Pass	PK	4.81186G	43.90	74.00	-30.10	3	Vertical	74	1.50
2402MHz	Pass	AV	4.8139G	31.58	54.00	-22.42	3	Horizontal	348	1.50
2402MHz	Pass	PK	4.8151G	43.60	74.00	-30.40	3	Horizontal	348	1.50
2440MHz	Pass	AV	2.372G	46.34	54.00	-7.66	3	Vertical	29	1.20
2440MHz	Pass	AV	2.44G	88.89	Inf	-Inf	3	Vertical	29	1.20
2440MHz	Pass	AV	2.4852G	46.63	54.00	-7.37	3	Vertical	29	1.20
2440MHz	Pass	PK	2.3788G	58.75	74.00	-15.25	3	Vertical	29	1.20
2440MHz	Pass	PK	2.4396G	90.01	Inf	-Inf	3	Vertical	29	1.20
2440MHz	Pass	PK	2.4964G	58.86	74.00	-15.14	3	Vertical	29	1.20
2440MHz	Pass	AV	2.384G	46.34	54.00	-7.66	3	Horizontal	10	1.00
2440MHz	Pass	AV	2.44G	101.14	Inf	-Inf	3	Horizontal	10	1.00
2440MHz	Pass	AV	2.4964G	46.80	54.00	-7.20	3	Horizontal	10	1.00
2440MHz	Pass	PK	2.3744G	58.51	74.00	-15.49	3	Horizontal	10	1.00
2440MHz	Pass	PK	2.4396G	102.28	Inf	-Inf	3	Horizontal	10	1.00
2440MHz	Pass	PK	2.496G	58.83	74.00	-15.17	3	Horizontal	10	1.00
2440MHz	Pass	AV	4.8941G	32.46	54.00	-21.54	3	Vertical	336	2.27
2440MHz	Pass	PK	4.87946G	44.60	74.00	-29.40	3	Vertical	336	2.27
2440MHz	Pass	AV	4.89464G	32.65	54.00	-21.35	3	Horizontal	0	2.63
2440MHz	Pass	PK	4.89176G	45.40	74.00	-28.60	3	Horizontal	0	2.63
2480MHz	Pass	AV	2.48G	89.42	Inf	-Inf	3	Vertical	27	1.00
2480MHz	Pass	AV	2.4972G	46.83	54.00	-7.17	3	Vertical	27	1.00
2480MHz	Pass	PK	2.4802G	90.57	Inf	-Inf	3	Vertical	27	1.00
2480MHz	Pass	PK	2.4972G	59.06	74.00	-14.94	3	Vertical	27	1.00
2480MHz	Pass	AV	2.48G	100.36	Inf	-Inf	3	Horizontal	360	1.00
2480MHz	Pass	AV	2.4928G	47.02	54.00	-6.98	3	Horizontal	360	1.00
2480MHz	Pass	PK	2.4802G	101.44	Inf	-Inf	3	Horizontal	360	1.00
2480MHz	Pass	PK	2.4852G	59.60	74.00	-14.40	3	Horizontal	360	1.00
2480MHz	Pass	AV	4.94842G	33.09	54.00	-20.91	3	Vertical	291	1.50
2480MHz	Pass	PK	4.95796G	45.84	74.00	-28.16	3	Vertical	291	1.50
2480MHz	Pass	AV	4.95676G	33.11	54.00	-20.89	3	Horizontal	10	1.60
2480MHz	Pass	PK	4.96354G	45.30	74.00	-28.70	3	Horizontal	10	1.60

2.4-2.4835GHz_BT-LE(1Mbps)

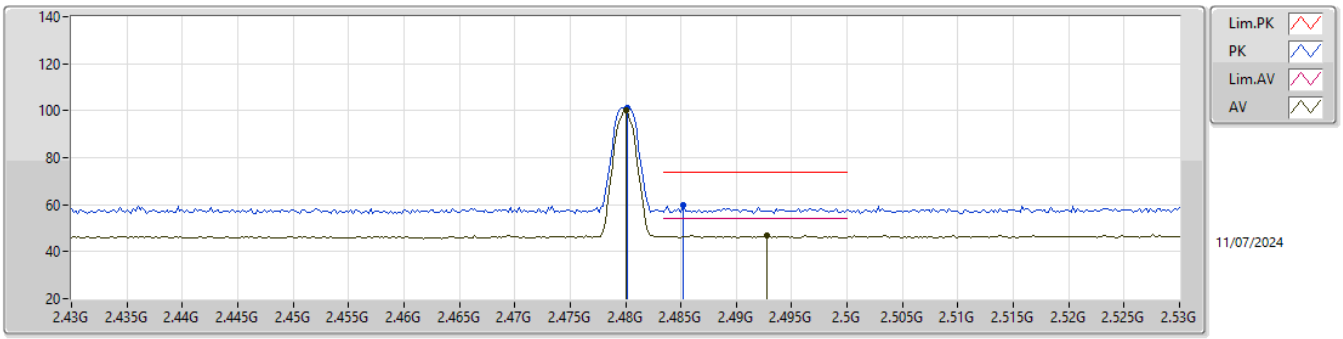
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	89.42	Inf	-Inf	33.29	3	Vertical	27	1.00	56.13	27.80	5.49	-
AV	2.4972G	46.83	54.00	-7.17	33.31	3	Vertical	27	1.00	13.52	27.80	5.51	-
PK	2.4802G	90.57	Inf	-Inf	33.29	3	Vertical	27	1.00	57.28	27.80	5.49	-
PK	2.4972G	59.06	74.00	-14.94	33.31	3	Vertical	27	1.00	25.75	27.80	5.51	-

2.4-2.4835GHz_BT-LE(1Mbps)

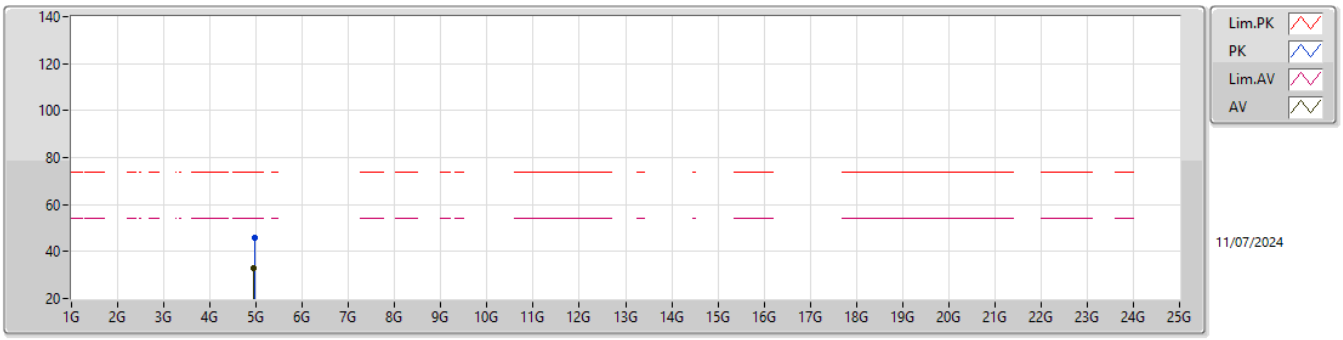
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.36	Inf	-Inf	33.29	3	Horizontal	360	1.00	67.07	27.80	5.49	-
AV	2.4928G	47.02	54.00	-6.98	33.31	3	Horizontal	360	1.00	13.71	27.80	5.51	-
PK	2.4802G	101.44	Inf	-Inf	33.29	3	Horizontal	360	1.00	68.15	27.80	5.49	-
PK	2.4852G	59.60	74.00	-14.40	33.30	3	Horizontal	360	1.00	26.30	27.80	5.50	-

2.4-2.4835GHz_BT-LE(1Mbps)

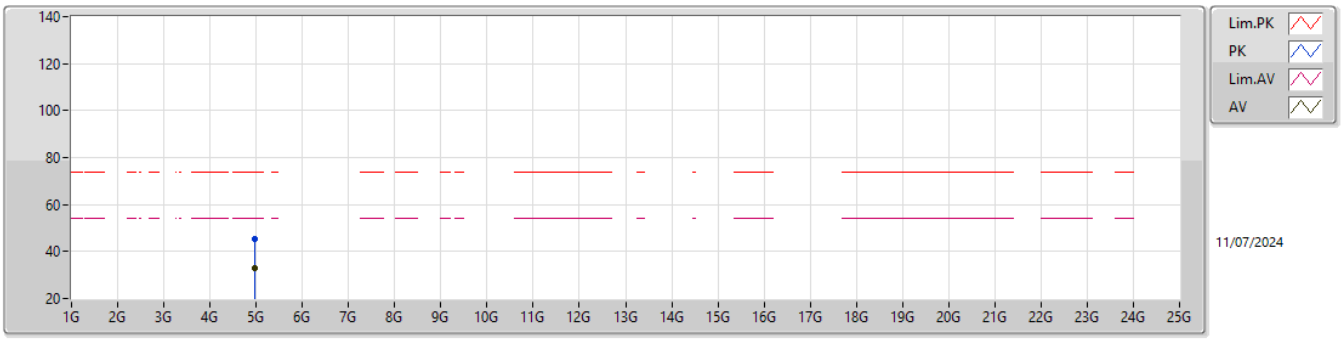
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.94842G	33.09	54.00	-20.91	3.38	3	Vertical	291	1.50	29.71	33.09	7.55	37.26
PK	4.95796G	45.84	74.00	-28.16	3.45	3	Vertical	291	1.50	42.39	33.15	7.55	37.25

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.95676G	33.11	54.00	-20.89	3.44	3	Horizontal	10	1.60	29.67	33.14	7.55	37.25
PK	4.96354G	45.30	74.00	-28.70	3.49	3	Horizontal	10	1.60	41.81	33.18	7.55	37.24