Testing Laboratory 3785

FCC Radio Test Report

FCC ID	:	**HBW-C39VXXW**
Equipment	:	**myQ Smart Outdoor Battery Camera**
Brand Name	:	**myQ**
Model Name	:	**MYQ-C39VXXW、MYQ-C392XXW**
Applicant	:	**The Chamberlain Group LLC 300 Windsor Drive Oak Brook, IL 60523 USA**
Manufacturer	:	**The Chamberlain Group, LLC 300 Windsor Drive Oak Brook, IL 60523 USA**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Mar. 17, 2025, and testing was started from Mar. 21, 2025 and completed on Mar. 29, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR521817AL	01	Initial issue of report	Apr. 17, 2025

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: Michelle Tsai

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
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:
- Bluetooth LE uses a GFSK (1Mbps/2Mbps) modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	Primax	RFMTA330800NNAB001	Metal antenna	N/A	2.4G
2	Primax	RFFPA301707IMAB301	FPC antenna	I-Pex	BLE

Ant.	Port	Gain (dBi)	
		2.4G	Bluetooth
1	1	2.68	-
2	1	-	1.81

Note 1: The EUT has two antennas.

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. 2 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
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 Table for Multiple Listing

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

Model Name	Description
MYQ-C39VXXW、MYQ-C392XXW	All the models are identical, the different model served as different package design.

Note: The model MYQ-C39VXXW was measured during the test.

1.1.5 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.855	0.68	2.137m	500
BT-LE(2Mbps)	0.576	2.4	1.081m	1k

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

1.2 Testing Applied Standards

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

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

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

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua **(TAF:** 3785**)**	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Lego Lin	21.5~22.9°C / 55~58%	21/Mar/2025
☒ Wenhua 3rd. **(TAF:** 3785**)**	**ADD:** No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
RF Conducted	TH06-HY	Johnny Yu	22.8~23.2°C / 56~59%	28/Mar/2025
Radiated	03CH25-HY	Rian Chung	18.6~21.2°C / 51~54%	27/Mar/2025~29/Mar/2025

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	STM32CubeMonitor-RF Version

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	29
2440MHz	29
2480MHz	29
BT-LE(2Mbps)	-
2402MHz	29
2440MHz	29
2480MHz	29

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	Adapter 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	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT			V

2.3 Accessories

Accessories Information				
USB Charging Cable	Brand Name	NA	Model Name	NA
	Power Cord	0.5 meter, non-shielded cable, w/o ferrite core		
Mount	Brand Name	NA	Model Name	NA
Mounting Plate	Brand Name	NA	Model Name	NA
Battery	Brand Name	KAYO	Model Name	INR18650-33V A-1S2P
	Power Rating	3.6Vdc, 6200mAh	Type	Li-ion

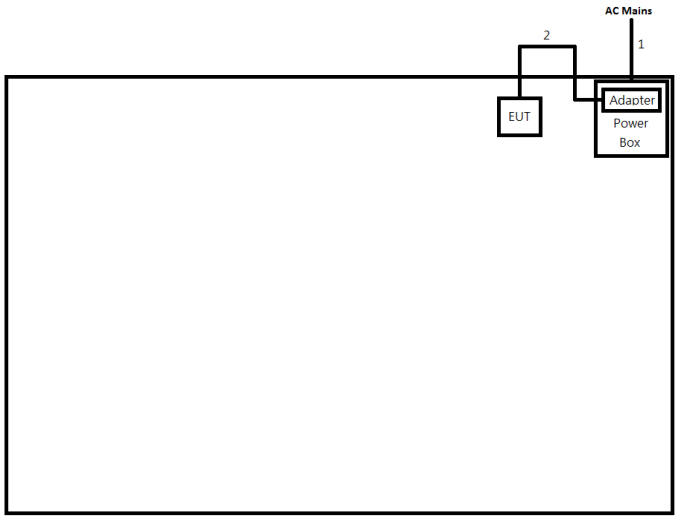
2.4 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Adapter	Apple	A1385	-	-

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

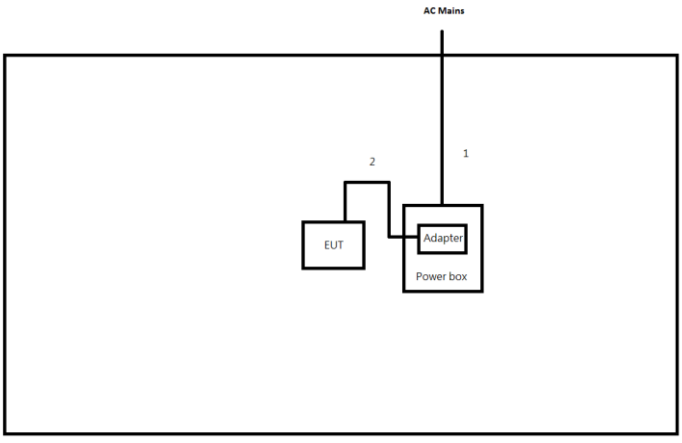
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.0	-
2	USB Charging Cable	No	0.5	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB Charging Cable	No	0.5	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

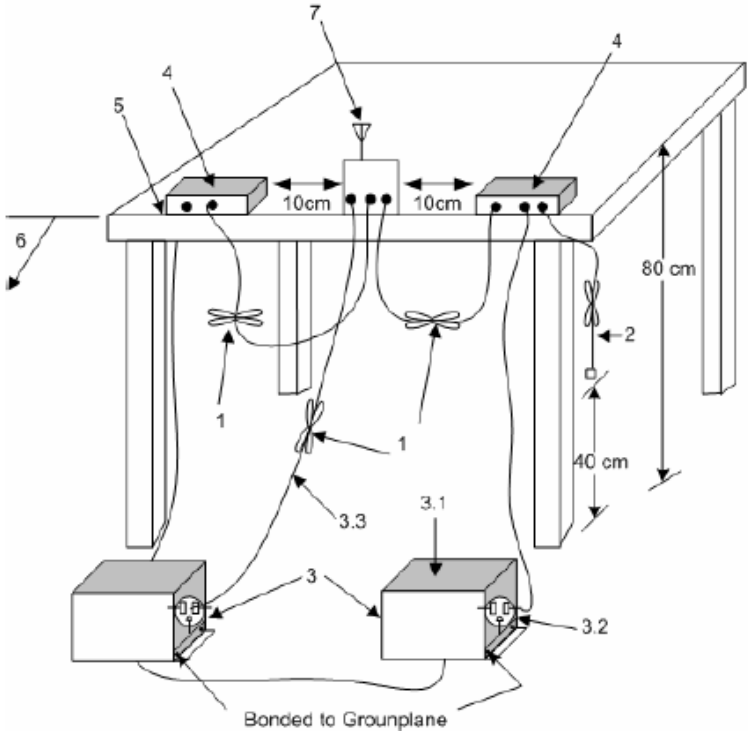
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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 50Ωloads. 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.

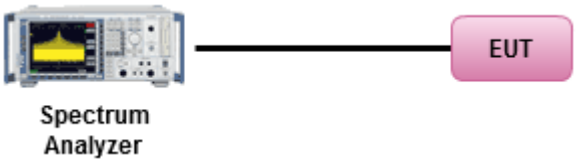
3.2.2 Measuring Instruments

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

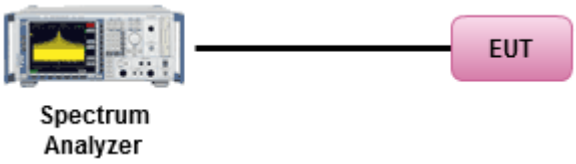
3.4.2 Measuring Instruments

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.	

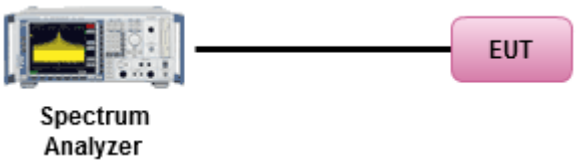
3.5.2 Measuring Instruments

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.

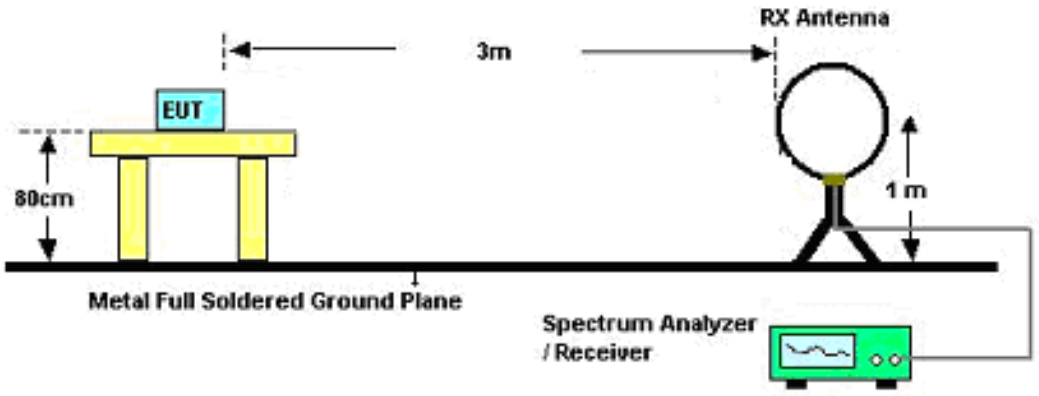
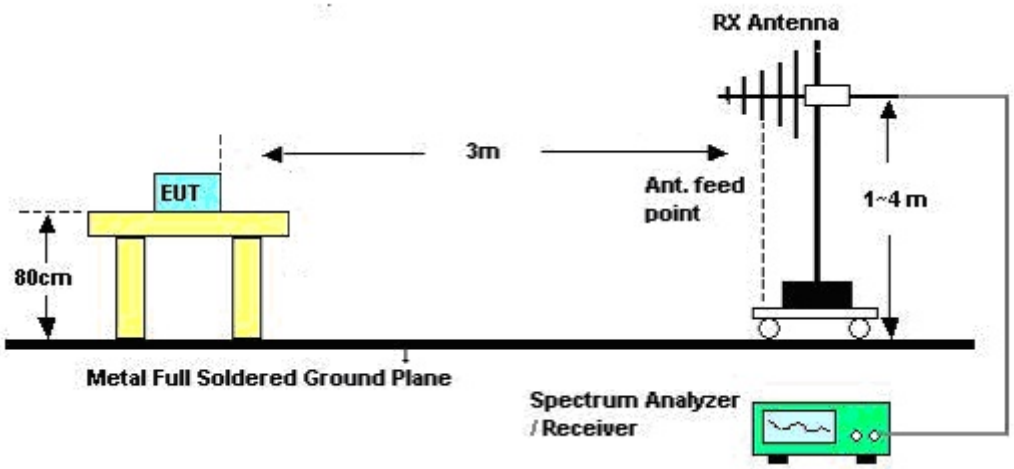
3.6.3 Test Procedures

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.

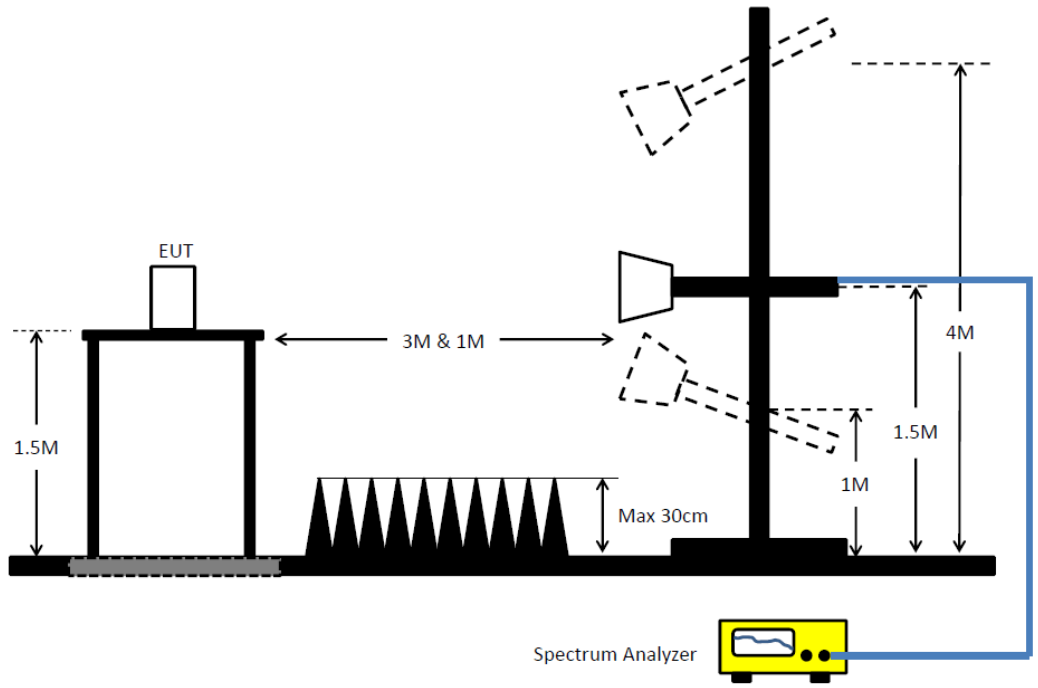
3.6.4 Measurement Results Calculation

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
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	06/Sep/2024	05/Sep/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

Instrument for Radiated Test

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	20/Jul/2024	19/Jul/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	08/Aug/2024	07/Aug/2025
ESR7 EMI Test Receiver	ROHDE & SCHWARZ	ESR7	102956	9kHz~3.6GHz	27/Aug/2024	26/Aug/2025
Signal Analyzer	ROHDE& SCHWARZ	FSV3044	101410	10Hz~44GHz	18/Nov/2024	17/Nov/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	30/May/2024	29/May/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	24/Apr/2024	23/Apr/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	15/Feb/2025	14/Feb/2026
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	24/May/2024	23/May/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-15247-FS	Sporton	V5.11.20	NA	NA	NA	NA

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15247_FS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

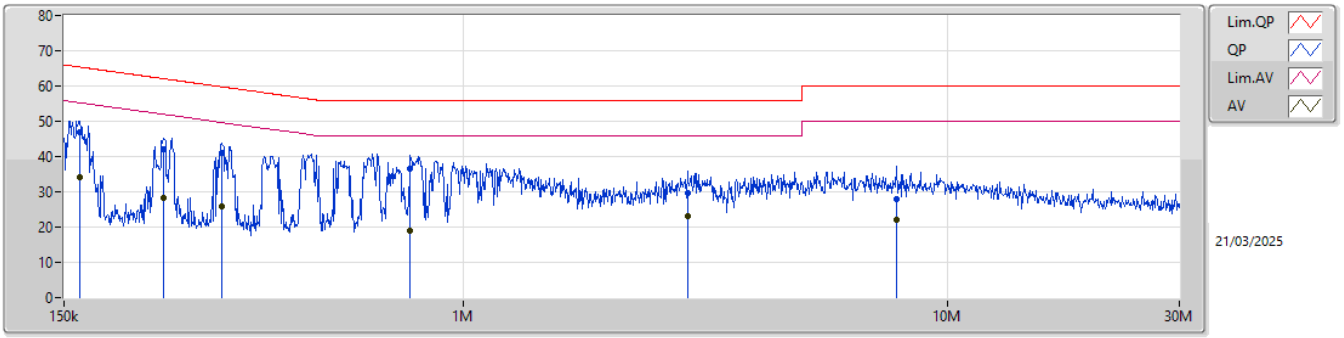
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	161.82k	46.95	65.37	-18.42	Line

Result

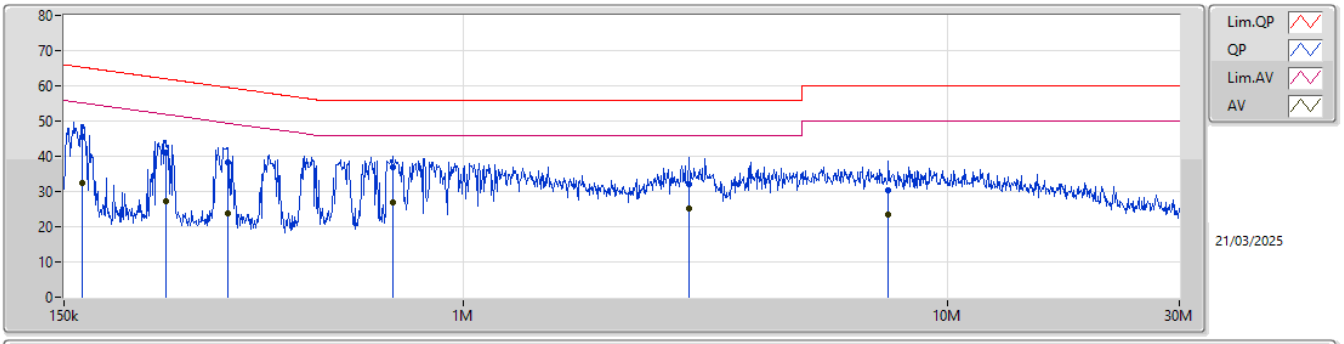
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	161.82k	46.95	65.37	-18.42	Line
Mode 1	Pass	AV	161.82k	34.29	55.37	-21.08	Line
Mode 1	Pass	QP	241.214k	42.24	62.06	-19.82	Line
Mode 1	Pass	AV	241.214k	28.43	52.06	-23.63	Line
Mode 1	Pass	QP	317.709k	40.90	59.77	-18.87	Line
Mode 1	Pass	AV	317.709k	25.98	49.77	-23.79	Line
Mode 1	Pass	QP	776.928k	36.59	56.00	-19.41	Line
Mode 1	Pass	AV	776.928k	18.80	46.00	-27.20	Line
Mode 1	Pass	QP	2.901M	29.49	56.00	-26.51	Line
Mode 1	Pass	AV	2.901M	22.97	46.00	-23.03	Line
Mode 1	Pass	QP	7.838M	28.07	60.00	-31.93	Line
Mode 1	Pass	AV	7.838M	21.93	50.00	-28.07	Line
Mode 1	Pass	QP	163.117k	45.52	65.31	-19.79	Neutral
Mode 1	Pass	AV	163.117k	32.43	55.31	-22.88	Neutral
Mode 1	Pass	QP	244.12k	40.94	61.95	-21.01	Neutral
Mode 1	Pass	AV	244.12k	27.16	51.95	-24.79	Neutral
Mode 1	Pass	QP	326.712k	38.40	59.54	-21.14	Neutral
Mode 1	Pass	AV	326.712k	23.76	49.54	-25.78	Neutral
Mode 1	Pass	QP	714.452k	36.83	56.00	-19.17	Neutral
Mode 1	Pass	AV	714.452k	26.99	46.00	-19.01	Neutral
Mode 1	Pass	QP	2.924M	32.10	56.00	-23.90	Neutral
Mode 1	Pass	AV	2.924M	25.20	46.00	-20.80	Neutral
Mode 1	Pass	QP	7.531M	30.36	60.00	-29.64	Neutral
Mode 1	Pass	AV	7.531M	23.39	50.00	-26.61	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	161.82k	46.95	65.37	-18.42	19.61	Line	-	27.34	9.63	0.01	9.97
AV	161.82k	34.29	55.37	-21.08	19.61	Line	-	14.68	9.63	0.01	9.97
QP	241.214k	42.24	62.06	-19.82	19.62	Line	-	22.62	9.63	0.02	9.97
AV	241.214k	28.43	52.06	-23.63	19.62	Line	-	8.81	9.63	0.02	9.97
QP	317.709k	40.90	59.77	-18.87	19.62	Line	-	21.28	9.62	0.02	9.98
AV	317.709k	25.98	49.77	-23.79	19.62	Line	-	6.36	9.62	0.02	9.98
QP	776.928k	36.59	56.00	-19.41	19.65	Line	-	16.94	9.63	0.04	9.98
AV	776.928k	18.80	46.00	-27.20	19.65	Line	-	-0.85	9.63	0.04	9.98
QP	2.901M	29.49	56.00	-26.51	19.68	Line	-	9.81	9.66	0.04	9.98
AV	2.901M	22.97	46.00	-23.03	19.68	Line	-	3.29	9.66	0.04	9.98
QP	7.838M	28.07	60.00	-31.93	19.94	Line	-	8.13	9.77	0.19	9.98
AV	7.838M	21.93	50.00	-28.07	19.94	Line	-	1.99	9.77	0.19	9.98

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	163.117k	45.52	65.31	-19.79	19.61	Neutral	-	25.91	9.63	0.01	9.97
AV	163.117k	32.43	55.31	-22.88	19.61	Neutral	-	12.82	9.63	0.01	9.97
QP	244.12k	40.94	61.95	-21.01	19.62	Neutral	-	21.32	9.63	0.02	9.97
AV	244.12k	27.16	51.95	-24.79	19.62	Neutral	-	7.54	9.63	0.02	9.97
QP	326.712k	38.40	59.54	-21.14	19.63	Neutral	-	18.77	9.63	0.02	9.98
AV	326.712k	23.76	49.54	-25.78	19.63	Neutral	-	4.13	9.63	0.02	9.98
QP	714.452k	36.83	56.00	-19.17	19.66	Neutral	-	17.17	9.64	0.04	9.98
AV	714.452k	26.99	46.00	-19.01	19.66	Neutral	-	7.33	9.64	0.04	9.98
QP	2.924M	32.10	56.00	-23.90	19.69	Neutral	-	12.41	9.67	0.04	9.98
AV	2.924M	25.20	46.00	-20.80	19.69	Neutral	-	5.51	9.67	0.04	9.98
QP	7.531M	30.36	60.00	-29.64	19.94	Neutral	-	10.42	9.78	0.18	9.98
AV	7.531M	23.39	50.00	-26.61	19.94	Neutral	-	3.45	9.78	0.18	9.98

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)	680k	1.027M	1M03F1D	662.5k	1.014M
BT-LE(2Mbps)	1.36M	2.061M	2M06F1D	1.055M	2.041M

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

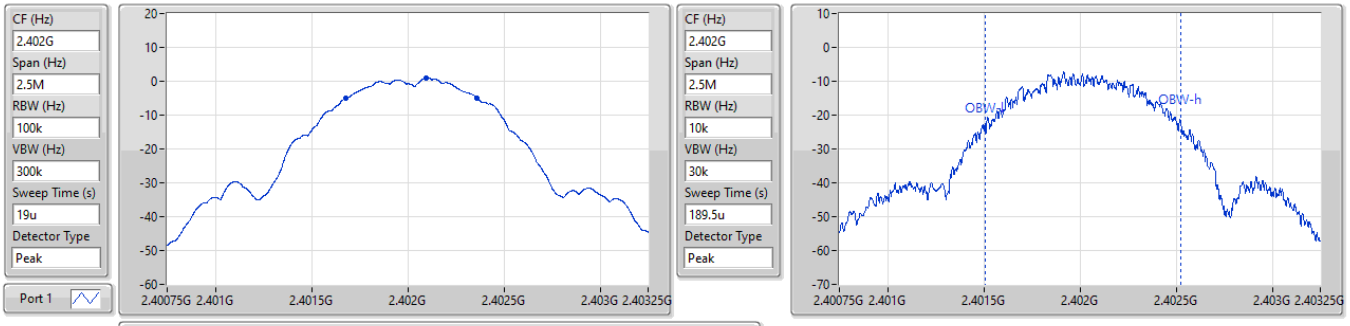
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	680k	1.014M
2440MHz	Pass	500k	667.5k	1.026M
2480MHz	Pass	500k	662.5k	1.027M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.36M	2.061M
2440MHz	Pass	500k	1.055M	2.041M
2480MHz	Pass	500k	1.115M	2.044M

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

28/03/2025

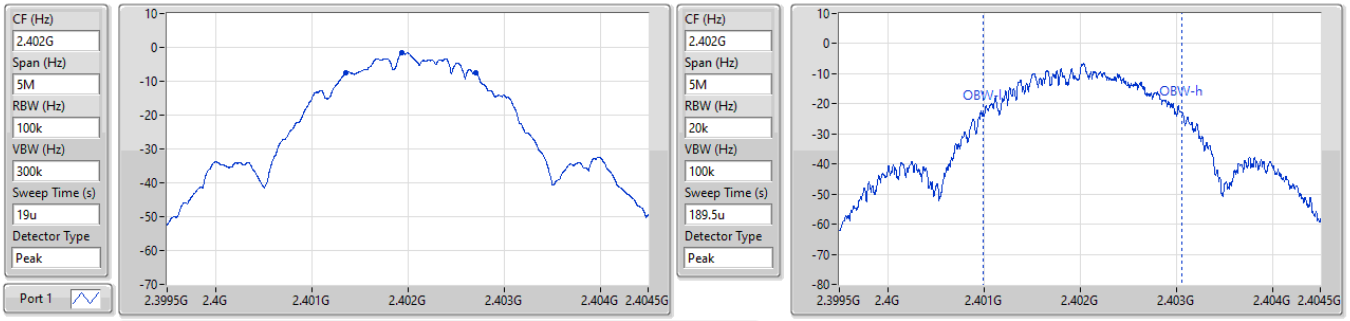


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
680k	2.40168G	2.40236G	1.014M	2.401508G	2.402522G	500k	1

2.4-2.4835GHz_BT-LE(2Mbps) **EBW-DTS**

2402MHz

28/03/2025



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.36M	2.401353G	2.402713G	2.061M	2.400998G	2.403059G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	2.46	0.00176
BT-LE(2Mbps)	2.54	0.00179

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.81	2.46	30.00
2440MHz	Pass	1.81	2.44	30.00
2480MHz	Pass	1.81	2.44	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.81	2.54	30.00
2440MHz	Pass	1.81	2.51	30.00
2480MHz	Pass	1.81	2.35	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)	-13.76
BT-LE(2Mbps)	-15.61

RBW = 3kHz;

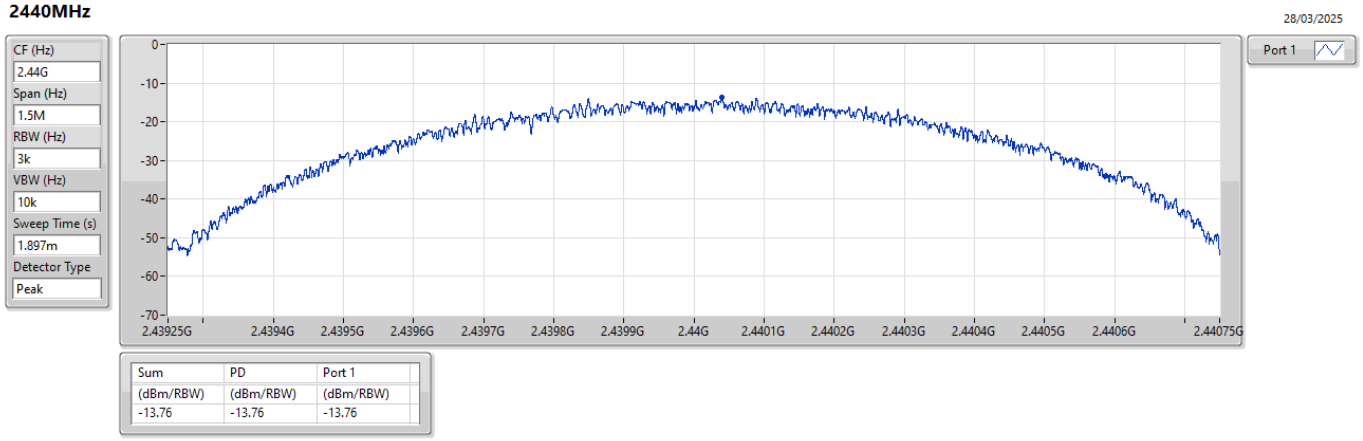
Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.81	-14.04	8.00
2440MHz	Pass	1.81	-13.76	8.00
2480MHz	Pass	1.81	-14.23	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.81	-15.81	8.00
2440MHz	Pass	1.81	-16.04	8.00
2480MHz	Pass	1.81	-15.61	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**

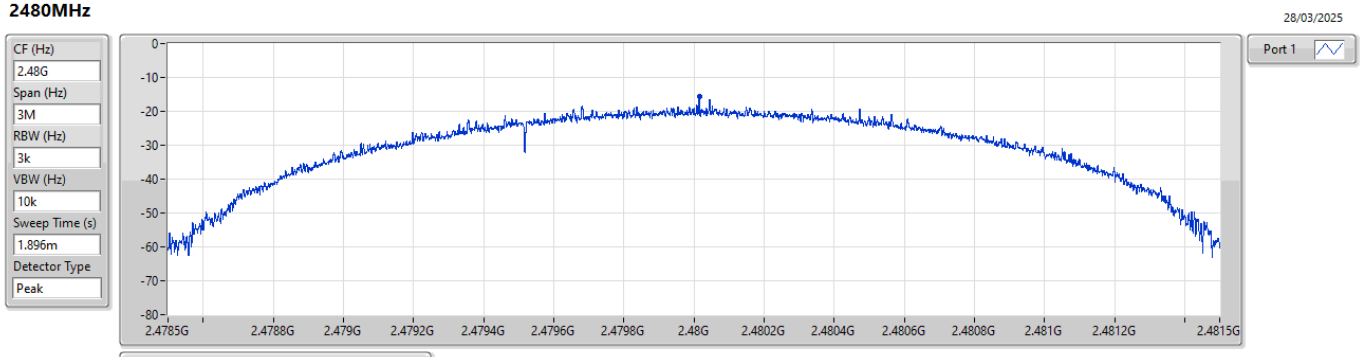
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.76	-13.76	-13.76

2.4-2.4835GHz_BT-LE(2Mbps) **PSD**

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.61	-15.61	-15.61

Summary

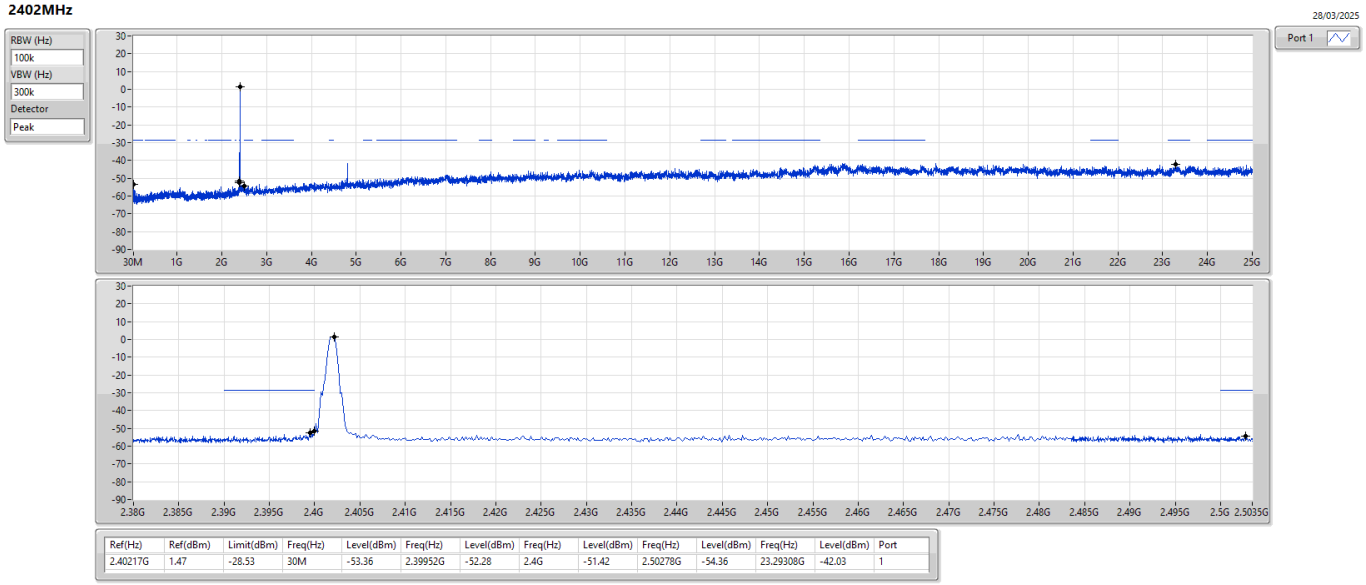
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40217G	1.47	-28.53	30M	-53.36	2.39952G	-52.28	2.4G	-51.42	2.50278G	-54.36	23.29308G	-42.03	1
BT-LE(2Mbps)	Pass	2.402G	0.96	-29.04	30M	-54.01	2.4G	-33.40	2.4G	-30.51	2.50098G	-54.71	17.2612G	-41.86	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	2.40217G	1.47	-28.53	30M	-53.36	2.39952G	-52.28	2.4G	-51.42	2.50278G	-54.36	23.29308G	-42.03	1
2440MHz	Pass	2.40217G	1.47	-28.53	33.53M	-53.15	2.39964G	-53.21	2.4G	-55.93	2.50022G	-54.39	16.25167G	-41.59	1
2480MHz	Pass	2.40217G	1.47	-28.53	30M	-54.70	2.3954G	-54.08	2.4G	-56.84	2.50274G	-53.81	17.61834G	-41.91	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	0.96	-29.04	30M	-54.01	2.4G	-33.40	2.4G	-30.51	2.50098G	-54.71	17.2612G	-41.86	1
2440MHz	Pass	2.402G	0.96	-29.04	30M	-53.31	2.39008G	-53.84	2.4G	-56.15	2.50346G	-53.85	15.26464G	-42.12	1
2480MHz	Pass	2.402G	0.96	-29.04	34.7M	-54.33	2.392G	-53.92	2.4G	-57.31	2.50294G	-53.64	16.29385G	-41.34	1

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

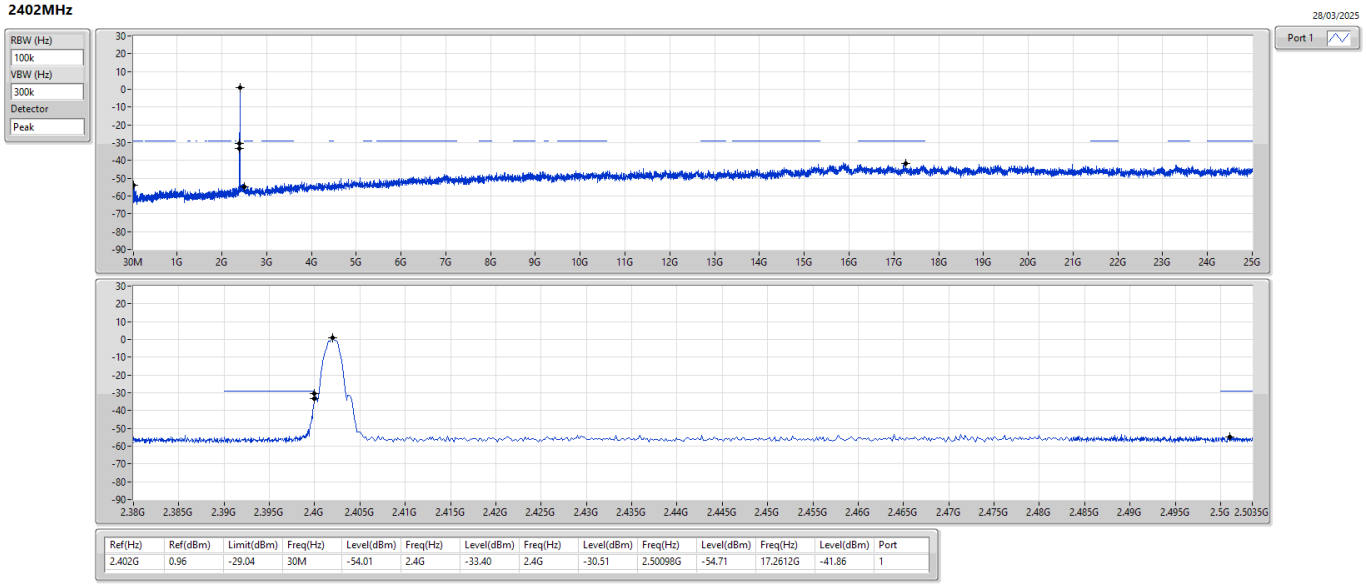
2402MHz



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
2.40217G	1.47	-28.53	30M	-53.36	2.39952G	-52.28	2.4G	-51.42	2.50278G	-54.36	23.29308G	-42.03	1

2.4-2.4835GHz_BT-LE(2Mbps) **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
2.402G	0.96	-29.04	30M	-54.01	2.4G	-33.40	2.4G	-30.51	2.50098G	-54.71	17.2612G	-41.86	1

Summary

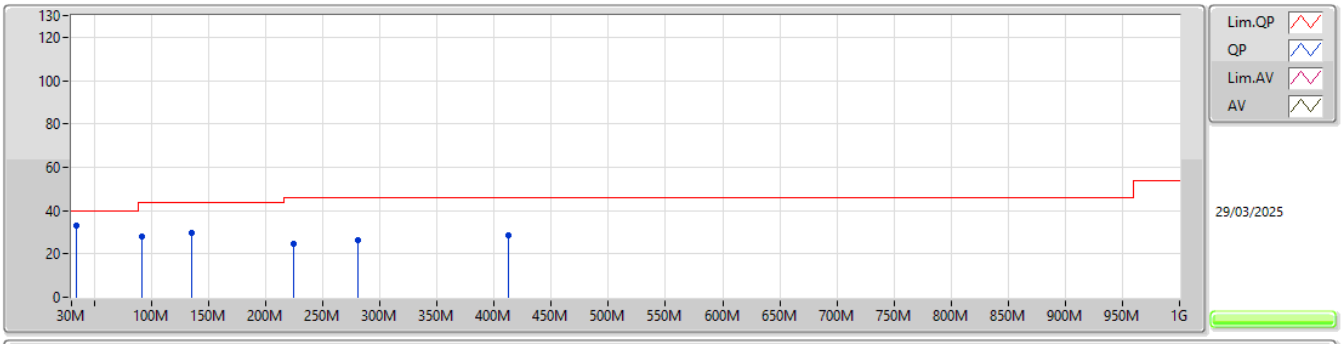
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	QP	33.88M	32.91	40.00	-7.09	3	Vertical	161	1.01

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	92.08M	28.27	43.50	-15.23	3	Vertical	0	1.00
2440MHz	Pass	PK	134.76M	29.79	43.50	-13.71	3	Vertical	0	1.00
2440MHz	Pass	PK	224M	24.63	46.00	-21.37	3	Vertical	0	1.00
2440MHz	Pass	PK	280.26M	26.13	46.00	-19.87	3	Vertical	0	1.00
2440MHz	Pass	PK	412.18M	28.46	46.00	-17.54	3	Vertical	0	1.00
2440MHz	Pass	QP	33.88M	32.91	40.00	-7.09	3	Vertical	161	1.01
2440MHz	Pass	PK	33.88M	30.50	40.00	-9.50	3	Horizontal	360	1.00
2440MHz	Pass	PK	99.84M	30.92	43.50	-12.58	3	Horizontal	360	1.00
2440MHz	Pass	PK	163.86M	30.96	43.50	-12.54	3	Horizontal	360	1.00
2440MHz	Pass	PK	224M	28.26	46.00	-17.74	3	Horizontal	360	1.00
2440MHz	Pass	PK	280.26M	31.12	46.00	-14.88	3	Horizontal	360	1.00
2440MHz	Pass	PK	408.3M	35.10	46.00	-10.90	3	Horizontal	360	1.00

2.4-2.4835GHz_BT-LE(2Mbps)

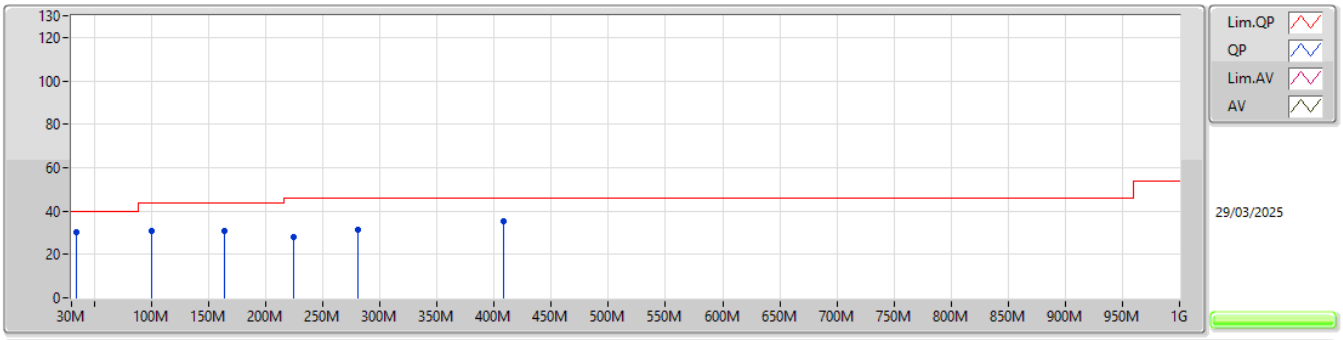
2440MHz_Adapter



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	92.08M	28.27	43.50	-15.23	-28.54	3	Vertical	0	1.00	56.81	15.25	0.80	44.59
PK	134.76M	29.79	43.50	-13.71	-25.97	3	Vertical	0	1.00	55.76	17.65	0.95	44.57
PK	224M	24.63	46.00	-21.37	-27.53	3	Vertical	0	1.00	52.16	15.77	1.13	44.43
PK	280.26M	26.13	46.00	-19.87	-24.18	3	Vertical	0	1.00	50.31	18.94	1.18	44.30
PK	412.18M	28.46	46.00	-17.54	-19.98	3	Vertical	0	1.00	48.44	22.56	1.46	44.00
QP	33.88M	32.91	40.00	-7.09	-21.06	3	Vertical	161	1.01	53.97	22.83	0.45	44.34

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	33.88M	30.50	40.00	-9.50	-21.06	3	Horizontal	360	1.00	51.56	22.83	0.45	44.34
PK	99.84M	30.92	43.50	-12.58	-27.56	3	Horizontal	360	1.00	58.48	16.15	0.82	44.53
PK	163.86M	30.96	43.50	-12.54	-27.20	3	Horizontal	360	1.00	58.16	16.36	0.98	44.54
PK	224M	28.26	46.00	-17.74	-27.53	3	Horizontal	360	1.00	55.79	15.77	1.13	44.43
PK	280.26M	31.12	46.00	-14.88	-24.18	3	Horizontal	360	1.00	55.30	18.94	1.18	44.30
PK	408.3M	35.10	46.00	-10.90	-20.22	3	Horizontal	360	1.00	55.32	22.33	1.46	44.01

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	2.491G	45.88	54.00	-8.12	3	Vertical	285	2.95
BT-LE(2Mbps)	Pass	AV	2.4882G	46.27	54.00	-7.73	3	Horizontal	202	1.50

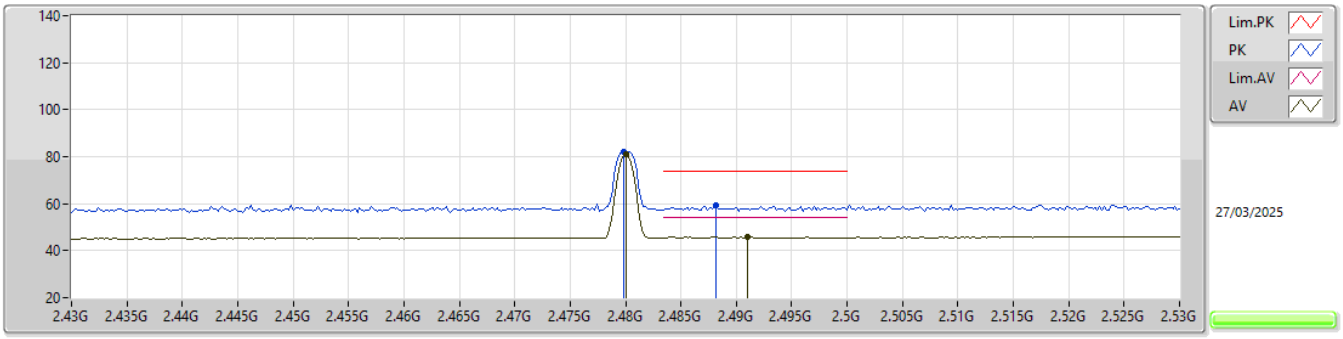
Result

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	2.3586G	44.88	54.00	-9.12	3	Vertical	288	2.47
2402MHz	Pass	AV	2.402G	79.50	Inf	-Inf	3	Vertical	288	2.47
2402MHz	Pass	PK	2.359G	58.46	74.00	-15.54	3	Vertical	288	2.47
2402MHz	Pass	PK	2.4018G	80.83	Inf	-Inf	3	Vertical	288	2.47
2402MHz	Pass	AV	2.3794G	44.91	54.00	-9.09	3	Horizontal	205	1.14
2402MHz	Pass	AV	2.402G	72.90	Inf	-Inf	3	Horizontal	205	1.14
2402MHz	Pass	PK	2.3886G	58.89	74.00	-15.11	3	Horizontal	205	1.14
2402MHz	Pass	PK	2.4018G	74.71	Inf	-Inf	3	Horizontal	205	1.14
2402MHz	Pass	AV	4.80408G	41.98	54.00	-12.02	3	Vertical	172	1.01
2402MHz	Pass	PK	4.80358G	49.19	74.00	-24.81	3	Vertical	172	1.01
2402MHz	Pass	AV	4.80404G	37.58	54.00	-16.42	3	Horizontal	100	1.02
2402MHz	Pass	PK	4.80469G	46.92	74.00	-27.08	3	Horizontal	100	1.02
2440MHz	Pass	AV	2.3604G	44.94	54.00	-9.06	3	Vertical	287	2.72
2440MHz	Pass	AV	2.44G	80.91	Inf	-Inf	3	Vertical	287	2.72
2440MHz	Pass	AV	2.4964G	45.74	54.00	-8.26	3	Vertical	287	2.72
2440MHz	Pass	PK	2.372G	58.28	74.00	-15.72	3	Vertical	287	2.72
2440MHz	Pass	PK	2.4404G	82.25	Inf	-Inf	3	Vertical	287	2.72
2440MHz	Pass	PK	2.5G	58.85	74.00	-15.15	3	Vertical	287	2.72
2440MHz	Pass	AV	2.3572G	44.79	54.00	-9.21	3	Horizontal	203	1.50
2440MHz	Pass	AV	2.44G	73.10	Inf	-Inf	3	Horizontal	203	1.50
2440MHz	Pass	AV	2.4924G	45.70	54.00	-8.30	3	Horizontal	203	1.50
2440MHz	Pass	PK	2.3464G	58.00	74.00	-16.00	3	Horizontal	203	1.50
2440MHz	Pass	PK	2.44G	74.85	Inf	-Inf	3	Horizontal	203	1.50
2440MHz	Pass	PK	2.4944G	59.03	74.00	-14.97	3	Horizontal	203	1.50
2440MHz	Pass	AV	4.88004G	38.94	54.00	-15.06	3	Vertical	170	2.68
2440MHz	Pass	AV	7.32227G	34.43	54.00	-19.57	3	Vertical	89	1.00
2440MHz	Pass	PK	4.87951G	48.16	74.00	-25.84	3	Vertical	170	2.68
2440MHz	Pass	PK	7.32197G	47.66	74.00	-26.34	3	Vertical	89	1.00
2440MHz	Pass	AV	4.88008G	33.65	54.00	-20.35	3	Horizontal	210	1.43
2440MHz	Pass	AV	7.31931G	34.88	54.00	-19.12	3	Horizontal	313	2.09
2440MHz	Pass	PK	4.87938G	45.54	74.00	-28.46	3	Horizontal	210	1.43
2440MHz	Pass	PK	7.31916G	48.92	74.00	-25.08	3	Horizontal	313	2.09
2480MHz	Pass	AV	2.48G	80.90	Inf	-Inf	3	Vertical	285	2.95
2480MHz	Pass	AV	2.491G	45.88	54.00	-8.12	3	Vertical	285	2.95
2480MHz	Pass	PK	2.4798G	82.23	Inf	-Inf	3	Vertical	285	2.95
2480MHz	Pass	PK	2.4882G	59.28	74.00	-14.72	3	Vertical	285	2.95
2480MHz	Pass	AV	2.48G	73.96	Inf	-Inf	3	Horizontal	202	1.50
2480MHz	Pass	AV	2.4982G	45.74	54.00	-8.26	3	Horizontal	202	1.50
2480MHz	Pass	PK	2.4798G	75.78	Inf	-Inf	3	Horizontal	202	1.50
2480MHz	Pass	PK	2.4914G	59.17	74.00	-14.83	3	Horizontal	202	1.50
2480MHz	Pass	AV	4.96003G	37.98	54.00	-16.02	3	Vertical	194	1.49
2480MHz	Pass	AV	7.43905G	33.80	54.00	-20.20	3	Vertical	267	2.92
2480MHz	Pass	PK	4.96067G	47.48	74.00	-26.52	3	Vertical	194	1.49
2480MHz	Pass	PK	7.44208G	47.17	74.00	-26.83	3	Vertical	267	2.92
2480MHz	Pass	AV	4.95999G	33.71	54.00	-20.29	3	Horizontal	211	1.35
2480MHz	Pass	AV	7.44054G	33.87	54.00	-20.13	3	Horizontal	201	2.23
2480MHz	Pass	PK	4.96016G	45.85	74.00	-28.15	3	Horizontal	211	1.35
2480MHz	Pass	PK	7.44004G	47.01	74.00	-26.99	3	Horizontal	201	2.23
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3678G	45.28	54.00	-8.72	3	Vertical	286	2.35
2402MHz	Pass	AV	2.402G	78.69	Inf	-Inf	3	Vertical	286	2.35
2402MHz	Pass	PK	2.387G	58.48	74.00	-15.52	3	Vertical	286	2.35
2402MHz	Pass	PK	2.4024G	81.86	Inf	-Inf	3	Vertical	286	2.35
2402MHz	Pass	AV	2.3766G	45.12	54.00	-8.88	3	Horizontal	205	1.16
2402MHz	Pass	AV	2.402G	71.56	Inf	-Inf	3	Horizontal	205	1.16
2402MHz	Pass	PK	2.3608G	58.67	74.00	-15.33	3	Horizontal	205	1.16
2402MHz	Pass	PK	2.4014G	75.22	Inf	-Inf	3	Horizontal	205	1.16
2402MHz	Pass	AV	4.80357G	40.64	54.00	-13.36	3	Vertical	16	2.44
2402MHz	Pass	PK	4.80492G	51.06	74.00	-22.94	3	Vertical	16	2.44
2402MHz	Pass	AV	4.80495G	38.30	54.00	-15.70	3	Horizontal	26	1.01

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2402MHz	Pass	PK	4.80309G	49.20	74.00	-24.80	3	Horizontal	26	1.01
2440MHz	Pass	AV	2.3628G	45.35	54.00	-8.65	3	Vertical	287	2.73
2440MHz	Pass	AV	2.44G	79.83	Inf	-Inf	3	Vertical	287	2.73
2440MHz	Pass	AV	2.4952G	46.02	54.00	-7.98	3	Vertical	287	2.73
2440MHz	Pass	PK	2.3576G	58.56	74.00	-15.44	3	Vertical	287	2.73
2440MHz	Pass	PK	2.4404G	82.82	Inf	-Inf	3	Vertical	287	2.73
2440MHz	Pass	PK	2.4892G	59.24	74.00	-14.76	3	Vertical	287	2.73
2440MHz	Pass	AV	2.3752G	45.18	54.00	-8.82	3	Horizontal	204	1.00
2440MHz	Pass	AV	2.44G	72.29	Inf	-Inf	3	Horizontal	204	1.00
2440MHz	Pass	AV	2.4896G	45.99	54.00	-8.01	3	Horizontal	204	1.00
2440MHz	Pass	PK	2.3444G	58.23	74.00	-15.77	3	Horizontal	204	1.00
2440MHz	Pass	PK	2.4396G	75.68	Inf	-Inf	3	Horizontal	204	1.00
2440MHz	Pass	PK	2.486G	59.63	74.00	-14.37	3	Horizontal	204	1.00
2440MHz	Pass	AV	4.88096G	34.71	54.00	-19.29	3	Vertical	324	2.11
2440MHz	Pass	AV	7.31784G	34.82	54.00	-19.18	3	Vertical	126	1.50
2440MHz	Pass	PK	4.87908G	46.32	74.00	-27.68	3	Vertical	324	2.11
2440MHz	Pass	PK	7.32212G	48.49	74.00	-25.51	3	Vertical	126	1.50
2440MHz	Pass	AV	4.87912G	38.42	54.00	-15.58	3	Horizontal	299	2.85
2440MHz	Pass	AV	7.31885G	36.55	54.00	-17.45	3	Horizontal	275	2.75
2440MHz	Pass	PK	4.8792G	48.86	74.00	-25.14	3	Horizontal	299	2.85
2440MHz	Pass	PK	7.3194G	49.29	74.00	-24.71	3	Horizontal	275	2.75
2480MHz	Pass	AV	2.48G	79.12	Inf	-Inf	3	Vertical	285	2.94
2480MHz	Pass	AV	2.4918G	46.14	54.00	-7.86	3	Vertical	285	2.94
2480MHz	Pass	PK	2.4804G	82.06	Inf	-Inf	3	Vertical	285	2.94
2480MHz	Pass	PK	2.4928G	60.53	74.00	-13.47	3	Vertical	285	2.94
2480MHz	Pass	AV	2.48G	72.22	Inf	-Inf	3	Horizontal	202	1.50
2480MHz	Pass	AV	2.4882G	46.27	54.00	-7.73	3	Horizontal	202	1.50
2480MHz	Pass	PK	2.4806G	75.59	Inf	-Inf	3	Horizontal	202	1.50
2480MHz	Pass	PK	2.4888G	59.79	74.00	-14.21	3	Horizontal	202	1.50
2480MHz	Pass	AV	4.96095G	37.39	54.00	-16.61	3	Vertical	191	2.13
2480MHz	Pass	AV	7.4388G	34.13	54.00	-19.87	3	Vertical	264	1.61
2480MHz	Pass	PK	4.96092G	48.61	74.00	-25.39	3	Vertical	191	2.13
2480MHz	Pass	PK	7.43823G	48.08	74.00	-25.92	3	Vertical	264	1.61
2480MHz	Pass	AV	4.96097G	38.64	54.00	-15.36	3	Horizontal	299	2.67
2480MHz	Pass	AV	7.44128G	35.46	54.00	-18.54	3	Horizontal	274	2.76
2480MHz	Pass	PK	4.95914G	49.43	74.00	-24.57	3	Horizontal	299	2.67
2480MHz	Pass	PK	7.44169G	48.33	74.00	-25.67	3	Horizontal	274	2.76

2.4-2.4835GHz_BT-LE(1Mbps)

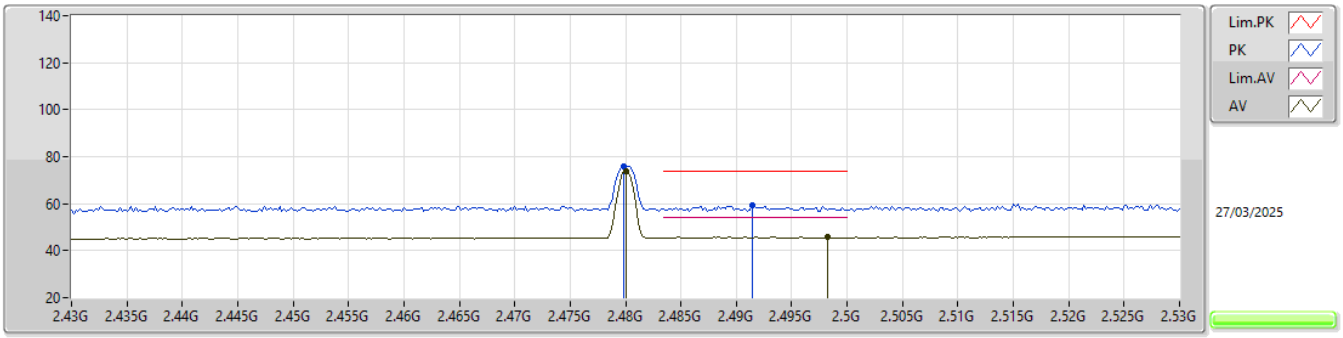
2480MHz_TX



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	80.90	Inf	-Inf	32.76	3	Vertical	285	2.95	48.14	27.90	4.86	-
AV	2.491G	45.88	54.00	-8.12	32.87	3	Vertical	285	2.95	13.01	27.99	4.88	-
PK	2.4798G	82.23	Inf	-Inf	32.76	3	Vertical	285	2.95	49.47	27.90	4.86	-
PK	2.4882G	59.28	74.00	-14.72	32.86	3	Vertical	285	2.95	26.42	27.98	4.88	-

2.4-2.4835GHz_BT-LE(1Mbps)

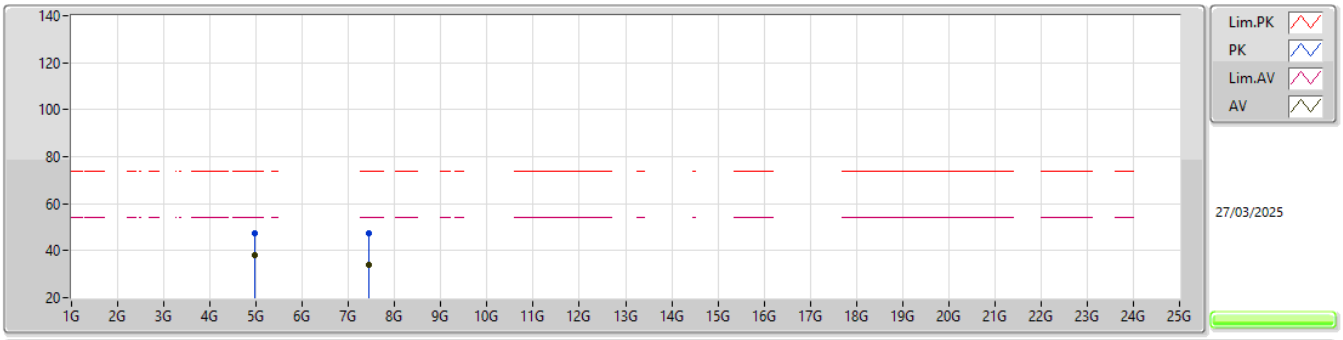
2480MHz_TX



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	73.96	Inf	-Inf	32.76	3	Horizontal	202	1.50	41.20	27.90	4.86	-
AV	2.4982G	45.74	54.00	-8.26	32.82	3	Horizontal	202	1.50	12.92	27.92	4.90	-
PK	2.4798G	75.78	Inf	-Inf	32.76	3	Horizontal	202	1.50	43.02	27.90	4.86	-
PK	2.4914G	59.17	74.00	-14.83	32.87	3	Horizontal	202	1.50	26.30	27.99	4.88	-

2.4-2.4835GHz_BT-LE(1Mbps)

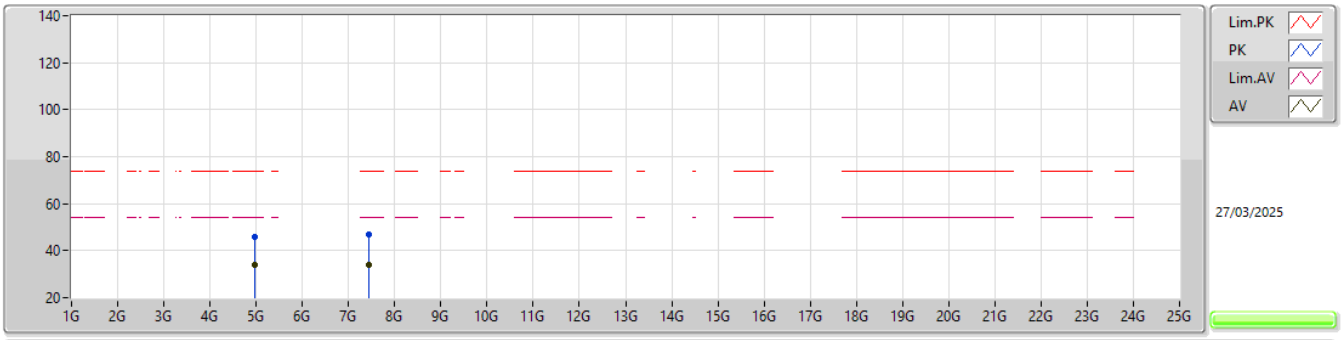
2480MHz_TX



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	4.96003G	37.98	54.00	-16.02	-4.22	3	Vertical	194	1.49	42.20	33.34	6.48	44.04
AV	7.43905G	33.80	54.00	-20.20	0.77	3	Vertical	267	2.92	33.03	36.70	7.64	43.57
PK	4.96067G	47.48	74.00	-26.52	-4.22	3	Vertical	194	1.49	51.70	33.34	6.48	44.04
PK	7.44208G	47.17	74.00	-26.83	0.77	3	Vertical	267	2.92	46.40	36.70	7.64	43.57

2.4-2.4835GHz_BT-LE(1Mbps)

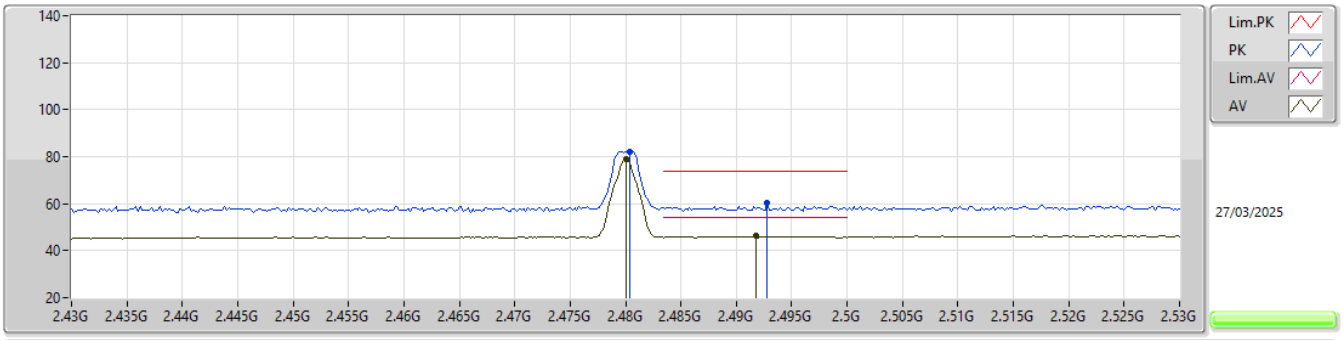
2480MHz_TX



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	4.95999G	33.71	54.00	-20.29	-4.22	3	Horizontal	211	1.35	37.93	33.34	6.48	44.04
AV	7.44054G	33.87	54.00	-20.13	0.77	3	Horizontal	201	2.23	33.10	36.70	7.64	43.57
PK	4.96016G	45.85	74.00	-28.15	-4.22	3	Horizontal	211	1.35	50.07	33.34	6.48	44.04
PK	7.44004G	47.01	74.00	-26.99	0.77	3	Horizontal	201	2.23	46.24	36.70	7.64	43.57

2.4-2.4835GHz_BT-LE(2Mbps)

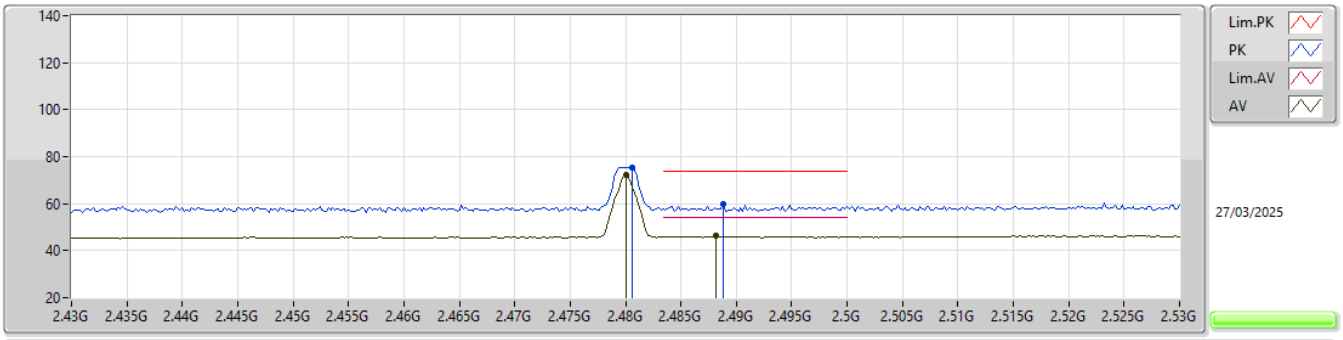
2480MHz_TX



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	79.12	Inf	-Inf	32.76	3	Vertical	285	2.94	46.36	27.90	4.86	-
AV	2.4918G	46.14	54.00	-7.86	32.87	3	Vertical	285	2.94	13.27	27.98	4.89	-
PK	2.4804G	82.06	Inf	-Inf	32.76	3	Vertical	285	2.94	49.30	27.90	4.86	-
PK	2.4928G	60.53	74.00	-13.47	32.86	3	Vertical	285	2.94	27.67	27.97	4.89	-

2.4-2.4835GHz_BT-LE(2Mbps)

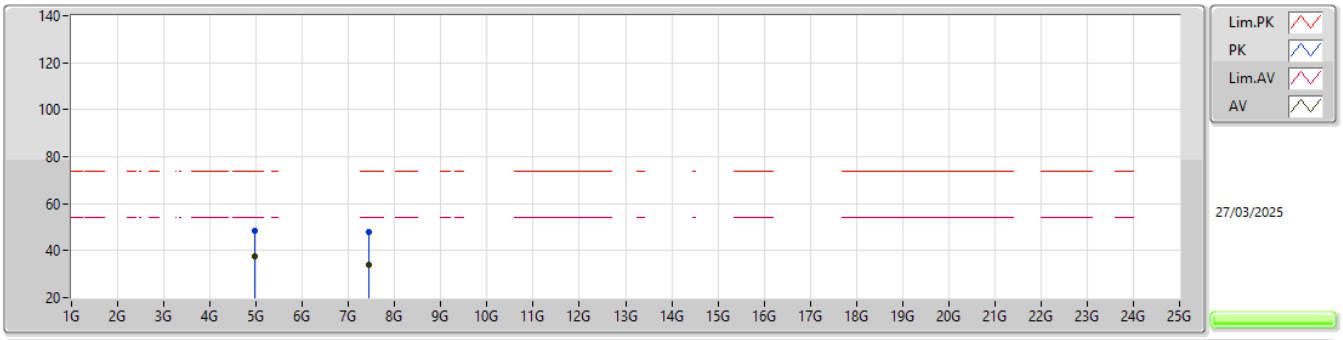
2480MHz_TX



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	72.22	Inf	-Inf	32.76	3	Horizontal	202	1.50	39.46	27.90	4.86	-
AV	2.4882G	46.27	54.00	-7.73	32.86	3	Horizontal	202	1.50	13.41	27.98	4.88	-
PK	2.4806G	75.59	Inf	-Inf	32.77	3	Horizontal	202	1.50	42.82	27.91	4.86	-
PK	2.4888G	59.79	74.00	-14.21	32.87	3	Horizontal	202	1.50	26.92	27.99	4.88	-

2.4-2.4835GHz_BT-LE(2Mbps)

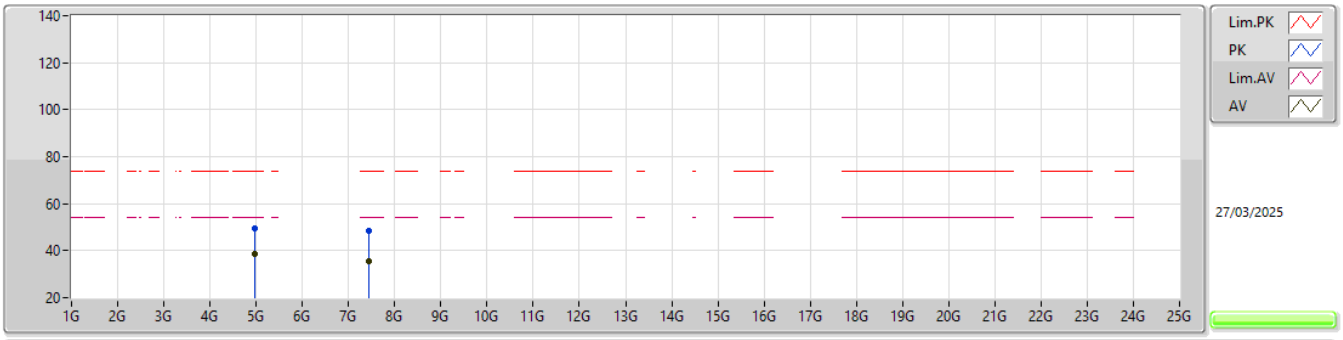
2480MHz_TX



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	4.96095G	37.39	54.00	-16.61	-4.22	3	Vertical	191	2.13	41.61	33.34	6.48	44.04
AV	7.4388G	34.13	54.00	-19.87	0.77	3	Vertical	264	1.61	33.36	36.70	7.64	43.57
PK	4.96092G	48.61	74.00	-25.39	-4.22	3	Vertical	191	2.13	52.83	33.34	6.48	44.04
PK	7.43823G	48.08	74.00	-25.92	0.77	3	Vertical	264	1.61	47.31	36.70	7.64	43.57

2.4-2.4835GHz_BT-LE(2Mbps)

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	4.96097G	38.64	54.00	-15.36	-4.22	3	Horizontal	299	2.67	42.86	33.34	6.48	44.04
AV	7.44128G	35.46	54.00	-18.54	0.77	3	Horizontal	274	2.76	34.69	36.70	7.64	43.57
PK	4.95914G	49.43	74.00	-24.57	-4.22	3	Horizontal	299	2.67	53.65	33.34	6.48	44.04
PK	7.44169G	48.33	74.00	-25.67	0.77	3	Horizontal	274	2.76	47.56	36.70	7.64	43.57