

FCC Radio Test Report

FCC ID : 2ASJ3-ATSV625
Equipment : ATS6
Brand Name : AVIRON
Model Name : ATS6
Applicant : Aviron Interactive
265 Bartley Drive, North York, Ontario, M4A 2N7, Canada
Manufacturer : Qisda Corporation
157, Shan-Ying Road, Gueishan, Taoyuan 333, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 14, 2025, and testing was started from Oct. 30, 2025 and completed on Nov. 25, 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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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

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[illegible]

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)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.5	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	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 Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Band	Mode	BWch	Nant
2.4-2.4835GHz	BT-BR(1Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(2Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(3Mbps)	1	1TX

Note:

- ♦ Bluetooth BR uses a GFSK (1Mbps).
- ♦ Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- ♦ Bluetooth BR/EDR uses as a system using FHSS modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand Name	Model Name	Antenna Type	Connector	Support
1	INPAQ	WA-P-LB-02-1125	PCB	I-Pex	2.4G+5G+BT
2	INPAQ	WA-P-LB-01-350	PCB	I-Pex	2.4G+5G

Ant.	Port	Gain (dBi)			
		2.4G	5G		BT
			U-NII-1	U-NII-3	
1	1	3.72	4.15	4.67	3.72
2	2	3.44	3.54	4.12	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (2TX/2RX)

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

For 5GHz function:

For IEEE 802.11 a/n/ac mode (2TX/2RX)

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

For BT function:

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

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

Note 2: Directional gain information

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{RE}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{RE}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{RE}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From 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 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_ 1/T
BT-BR(1Mbps)	0.77	1.14	2.889m	500
BT-EDR(2Mbps)	0.771	1.13	2.893m	500
BT-EDR(3Mbps)	0.772	1.12	2.895m	500

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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024

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	21.6~23.9°C / 55~60%	07/Nov/2025~19/Nov/2025
RF Conducted	TH01-HY	Sonic Li	23.4~23.9°C / 52~54%	30/Oct/2025
Radiated	03CH03-HY	Simon Cheng	22.2~23.4°C / 50~52%	12/Nov/2025~18/Nov/2025
Radiated (Co-Location)	03CH03-HY	Simon Cheng	22.0~23.1°C / 50~53%	25/Nov/2025
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: 886-3-318-0787 FAX: 886-3-318-0287			
Test site Designation No. TW0008 with FCC.				

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	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Dos6.1
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Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-EDR(2Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-EDR(3Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

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 (12V)

The Worst Case Mode for Following Conformance Tests	
Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains ☒ Non-adaptive frequency hopping systems (Non-AFH) ☐ adaptive frequency hopping systems (AFH)

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 (12V)		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 5GHz+Bluetooth
Refer to Sporton Test Report No.: FA501401 for Co-location RF Exposure Evaluation and Appendix H for Radiated Emission Co-location.	

2.3 Support Equipment

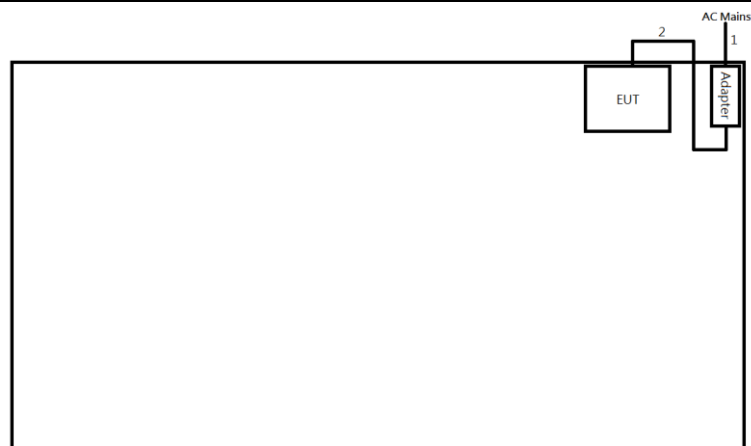
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	GVE	GM60-120500-F	-	Provided by Customer
2	AC Power Cable	Power sync	PW-GNB150	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	12V Adapter	GVE	GM60-120500-F	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	GVE	GM60-120500-F	-	Provided by Customer
2	AC Power Cable	Power sync	PW-GNB150	-	-

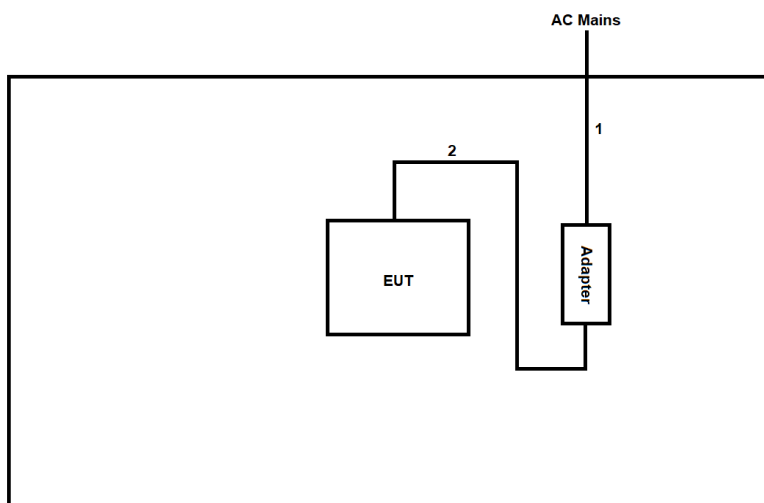
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.5	-
2	DC Power Cable	No	1.2	-

Test Setup Diagram – Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.5	-
2	DC Power Cable	No	1.2	-

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

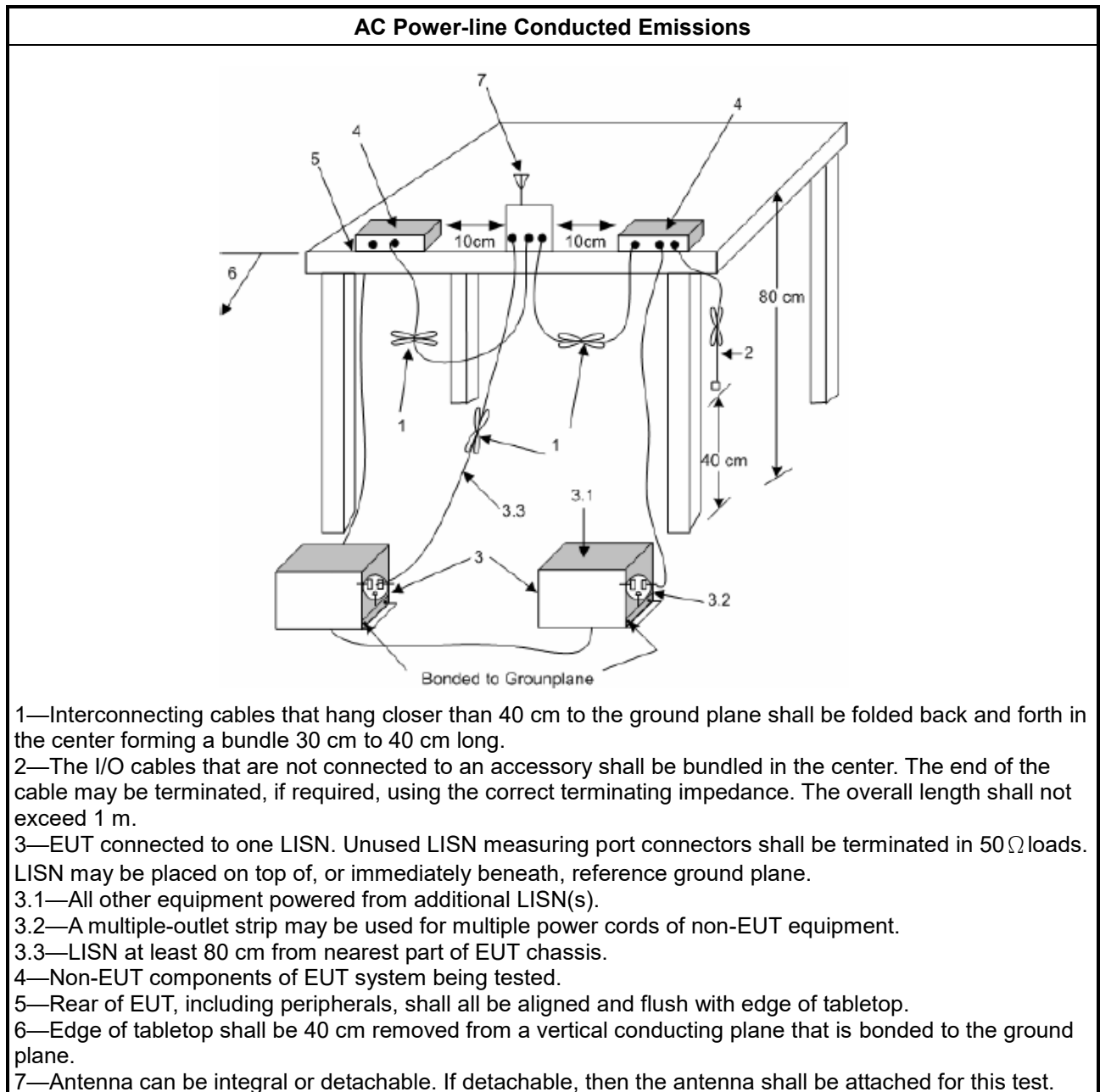
Test Method
Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪	2400-2483.5 MHz Band:
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

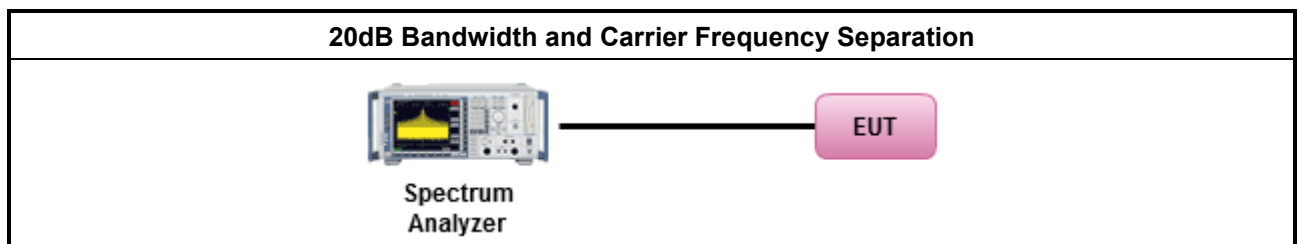
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10, clause 6.9.2 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$; Power 30dBm; EIRP 36dBm
	▪ $75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

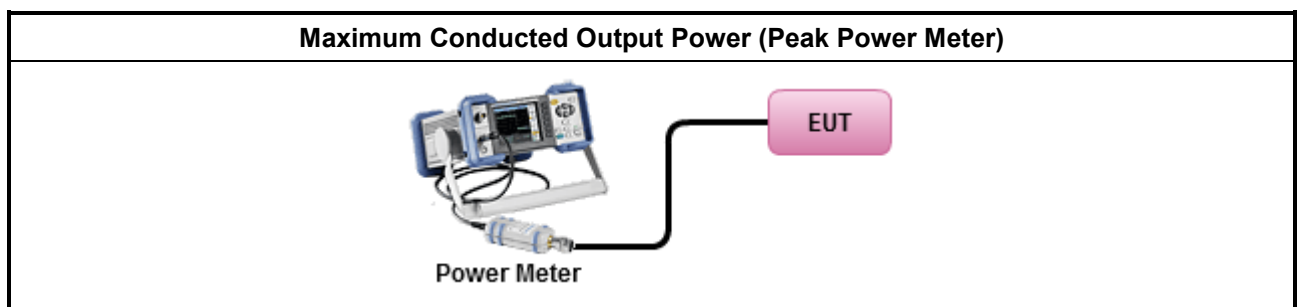
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10, clause 7.8.5 for output power measurement.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

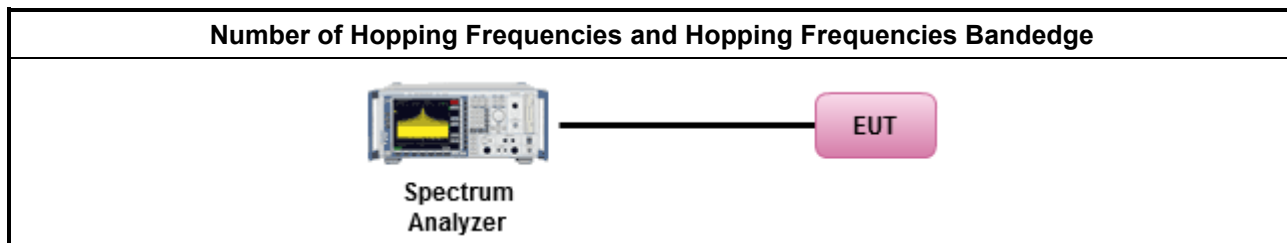
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
▪ Refer as ANSI C63.10, clause 7.8.3 for number of hopping frequencies measurement.
▪ Refer as ANSI C63.10, clause 7.8.7.2 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
2400-2483.5 MHz Band:	
	$N \geq 75$; 0.4s in $N \times 0.4$ period
	$75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

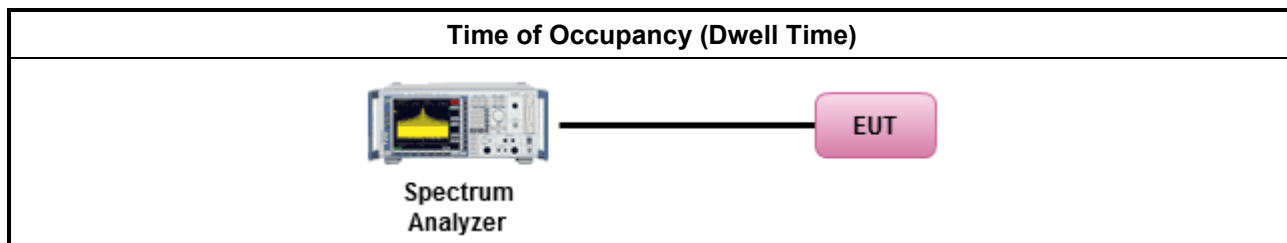
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
Refer as ANSI C63.10, clause 7.8.4 for dwell time measurement.	
Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.	
	The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $5/1600$ seconds, or 3.125ms. DH5 Packet permit maximum $1600/79/6 = 3.37$ hops per second in each channel.

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
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.	

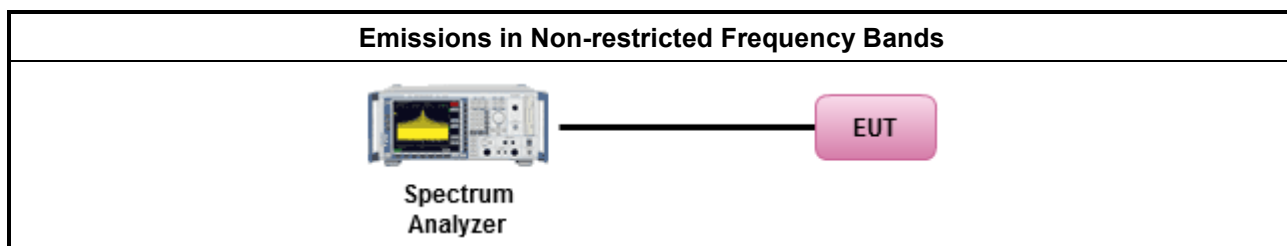
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10, clause 7.8.7 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 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.

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

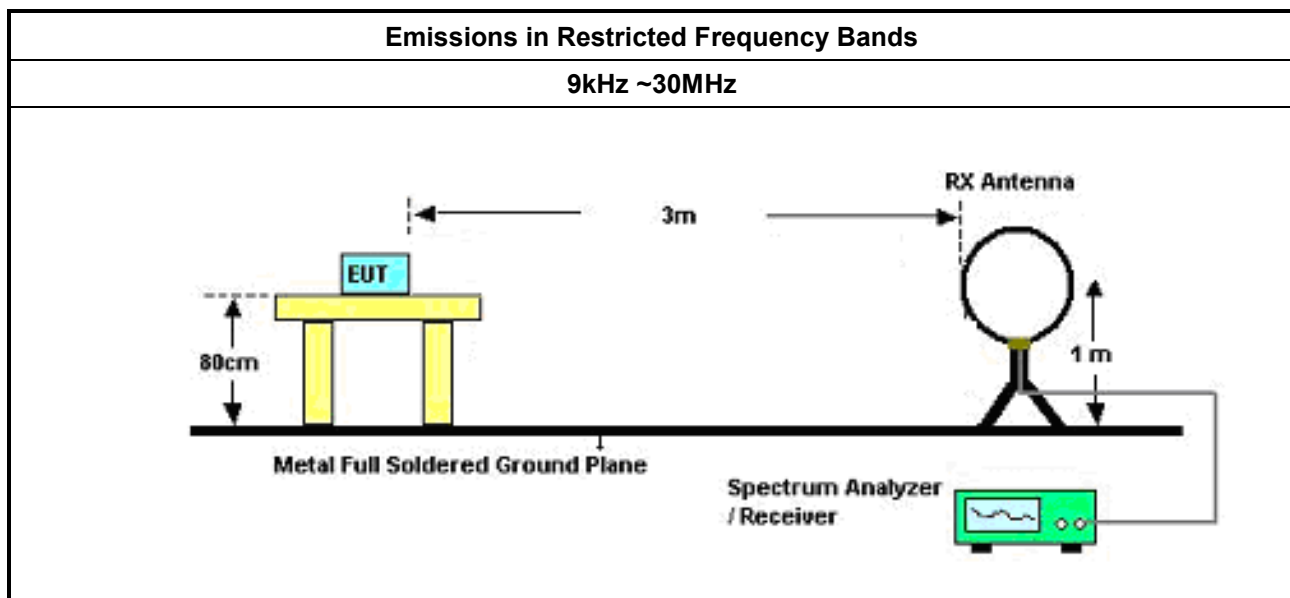
Test Method	
	The average emission levels shall be measured in [hopping duty factor].
	Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	For the transmitter unwanted emissions shall be measured using following options below:
	- Refer as ANSI C63.10, clause 4.1.5.2.1 QP value. - Refer as ANSI C63.10, clause 4.1.5.2.2 measurement procedure peak. - Refer as ANSI C63.10, clause 4.1.5.2.5 average value of hopping pulsed emissions.
	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.

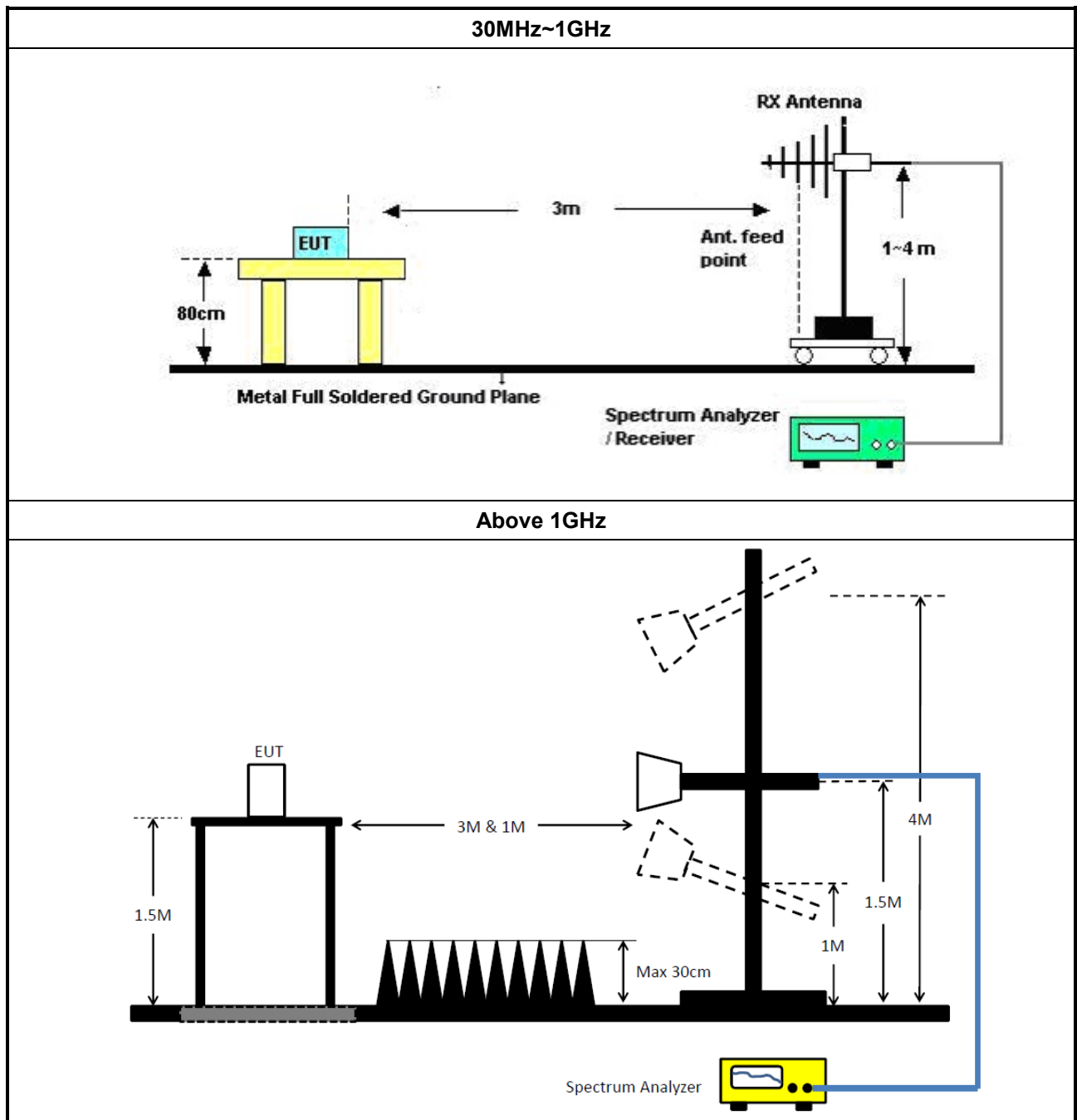
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.7.5 Test Setup





3.7.6 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.

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

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	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	24/Aug/2025	23/Aug/2026
RF Cable 5m	TITAN	RG142	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	1056	9kHz ~ 30MHz	25/Jun/2025	24/Jun/2026
Software	Sporton	SENSE-EMI	V5.11.6	-	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	FSV3044	101438	10Hz~44GHz	14/Oct/2025	13/Oct/2026
SMB100A Signal Generator	R&S	SMB100A	183621	100kHz~40GHz	02/Jan/2025	01/Jan/2026
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	13/Feb/2025	12/Feb/2026
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	13/Feb/2025	12/Feb/2026
SENSE-15247_FS	Sporton	V5.11.27	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Co-Location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	13/Jul/2025	12/Jul/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101748	10Hz~44GHz	10/Apr/2025	09/Apr/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	28/Oct/2025	27/Oct/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	02/Jul/2025	01/Jul/2026
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	19/May/2025	18/May/2026
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	23/Jul/2025	22/Jul/2026
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	26/Apr/2025	25/Apr/2026
SENSE-EMI	Sporton	V5.11.9	NA	NA	NA	NA

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	13/Jul/2025	12/Jul/2026
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	13/Jul/2025	12/Jul/2026
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	14/May/2025	13/May/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101748	10Hz~44GHz	10/Apr/2025	09/Apr/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	11/Oct/2025	10/Oct/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	28/Oct/2025	27/Oct/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	02/Jul/2025	01/Jul/2026
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	10/Jun/2025	09/Jun/2026
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	10/Jun/2025	09/Jun/2026
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	19/May/2025	18/May/2026
Amplifier	Agilent	8447D	2944A08033	100kHz~1.3GHz	12/Sep/2025	11/Sep/2026
Microwave Prempplier	Agilent	8449B	3008A02326	1GHz~26.5GHz	23/Jul/2025	22/Jul/2026
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	26/Apr/2025	25/Apr/2026
SENSE-15247_FS	Sporton	V5.11.23	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

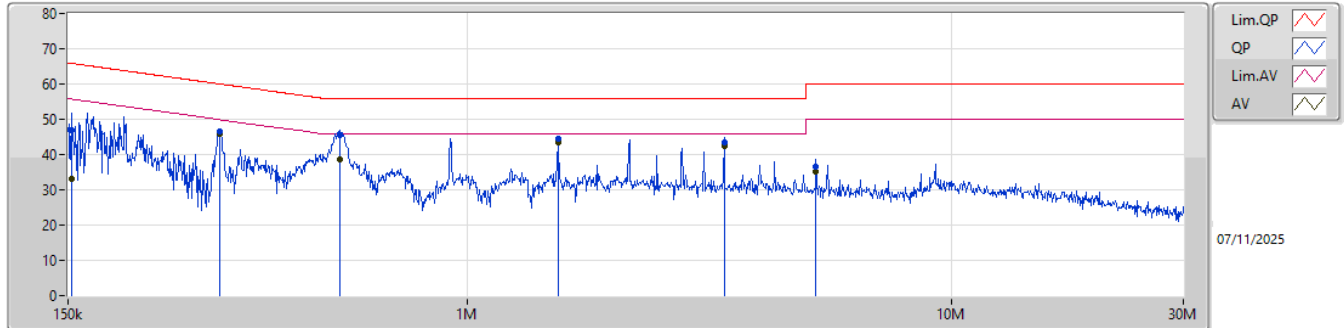
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	1.54M	43.43	46.00	-2.57	Line

Result

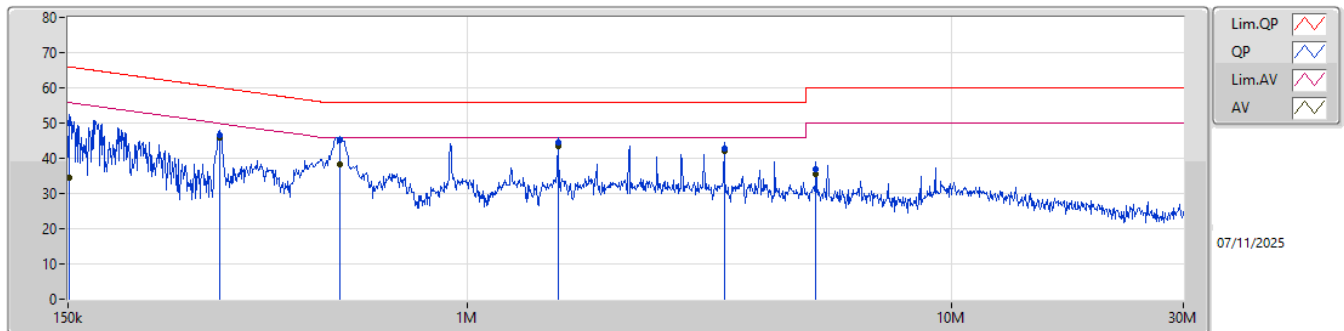
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	152.41k	46.90	65.87	-18.97	Line
Mode 1	Pass	AV	152.41k	33.01	55.87	-22.86	Line
Mode 1	Pass	QP	307.72k	46.56	60.03	-13.47	Line
Mode 1	Pass	AV	307.72k	45.79	50.03	-4.24	Line
Mode 1	Pass	QP	544.6k	45.54	56.00	-10.46	Line
Mode 1	Pass	AV	544.6k	38.61	46.00	-7.39	Line
Mode 1	Pass	QP	1.54M	44.42	56.00	-11.58	Line
Mode 1	Pass	AV	1.54M	43.43	46.00	-2.57	Line
Mode 1	Pass	QP	3.39M	43.41	56.00	-12.59	Line
Mode 1	Pass	AV	3.39M	42.50	46.00	-3.50	Line
Mode 1	Pass	QP	5.24M	36.51	60.00	-23.49	Line
Mode 1	Pass	AV	5.24M	35.14	50.00	-14.86	Line
Mode 1	Pass	QP	151.2k	50.13	65.92	-15.79	Neutral
Mode 1	Pass	AV	151.2k	34.52	55.92	-21.40	Neutral
Mode 1	Pass	QP	307.72k	46.45	60.03	-13.58	Neutral
Mode 1	Pass	AV	307.72k	45.71	50.03	-4.32	Neutral
Mode 1	Pass	QP	544.6k	45.24	56.00	-10.76	Neutral
Mode 1	Pass	AV	544.6k	38.34	46.00	-7.66	Neutral
Mode 1	Pass	QP	1.54M	44.37	56.00	-11.63	Neutral
Mode 1	Pass	AV	1.54M	43.36	46.00	-2.64	Neutral
Mode 1	Pass	QP	3.39M	42.91	56.00	-13.09	Neutral
Mode 1	Pass	AV	3.39M	41.97	46.00	-4.03	Neutral
Mode 1	Pass	QP	5.24M	36.90	60.00	-23.10	Neutral
Mode 1	Pass	AV	5.24M	35.54	50.00	-14.46	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	152.41k	46.90	65.87	-18.97	19.77	Line	-	27.13	9.64	0.01	10.12						
AV	152.41k	33.01	55.87	-22.86	19.77	Line	-	13.24	9.64	0.01	10.12						
QP	307.72k	46.56	60.03	-13.47	19.77	Line	-	26.79	9.63	0.02	10.12						
AV	307.72k	45.79	50.03	-4.24	19.77	Line	-	26.02	9.63	0.02	10.12						
QP	544.6k	45.54	56.00	-10.46	19.79	Line	-	25.75	9.63	0.04	10.12						
AV	544.6k	38.61	46.00	-7.39	19.79	Line	-	18.82	9.63	0.04	10.12						
QP	1.54M	44.42	56.00	-11.58	19.82	Line	-	24.60	9.65	0.04	10.13						
AV	1.54M	43.43	46.00	-2.57	19.82	Line	-	23.61	9.65	0.04	10.13						
QP	3.39M	43.41	56.00	-12.59	19.84	Line	-	23.57	9.66	0.05	10.13						
AV	3.39M	42.50	46.00	-3.50	19.84	Line	-	22.66	9.66	0.05	10.13						
QP	5.24M	36.51	60.00	-23.49	19.91	Line	-	16.60	9.67	0.11	10.13						
AV	5.24M	35.14	50.00	-14.86	19.91	Line	-	15.23	9.67	0.11	10.13						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.2k	50.13	65.92	-15.79	19.77	Neutral	-	30.36	9.64	0.01	10.12						
AV	151.2k	34.52	55.92	-21.40	19.77	Neutral	-	14.75	9.64	0.01	10.12						
QP	307.72k	46.45	60.03	-13.58	19.77	Neutral	-	26.68	9.63	0.02	10.12						
AV	307.72k	45.71	50.03	-4.32	19.77	Neutral	-	25.94	9.63	0.02	10.12						
QP	544.6k	45.24	56.00	-10.76	19.79	Neutral	-	25.45	9.63	0.04	10.12						
AV	544.6k	38.34	46.00	-7.66	19.79	Neutral	-	18.55	9.63	0.04	10.12						
QP	1.54M	44.37	56.00	-11.63	19.82	Neutral	-	24.55	9.65	0.04	10.13						
AV	1.54M	43.36	46.00	-2.64	19.82	Neutral	-	23.54	9.65	0.04	10.13						
QP	3.39M	42.91	56.00	-13.09	19.84	Neutral	-	23.07	9.66	0.05	10.13						
AV	3.39M	41.97	46.00	-4.03	19.84	Neutral	-	22.13	9.66	0.05	10.13						
QP	5.24M	36.90	60.00	-23.10	19.91	Neutral	-	16.99	9.67	0.11	10.13						
AV	5.24M	35.54	50.00	-14.46	19.91	Neutral	-	15.63	9.67	0.11	10.13						

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	959.75k	894.097k	894KF1D	885.5k	864.202k
BT-EDR(2Mbps)	1.339M	1.235M	1M24G1D	1.32M	1.209M
BT-EDR(3Mbps)	1.375M	1.22M	1M22G1D	1.287M	1.199M

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	885.5k	883.954k
2440MHz	Pass	Inf	959.75k	864.202k
2480MHz	Pass	Inf	921.25k	894.097k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.334M	1.209M
2440MHz	Pass	Inf	1.339M	1.235M
2480MHz	Pass	Inf	1.32M	1.233M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.287M	1.22M
2440MHz	Pass	Inf	1.375M	1.218M
2480MHz	Pass	Inf	1.306M	1.199M

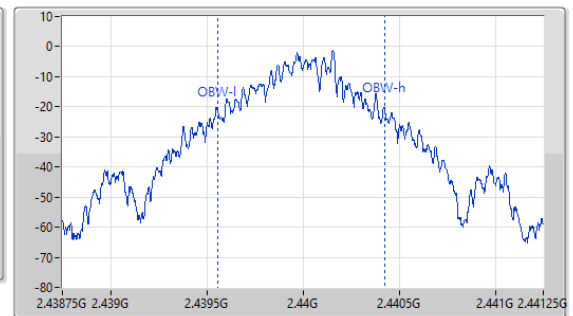
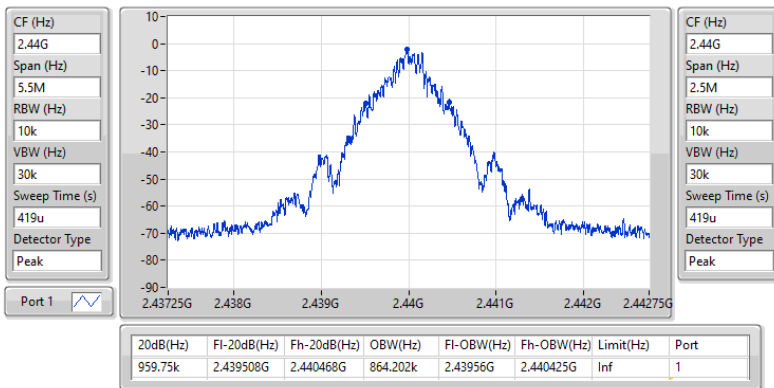
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-BR(1Mbps)

EBW-FS

2440MHz

30/10/2025

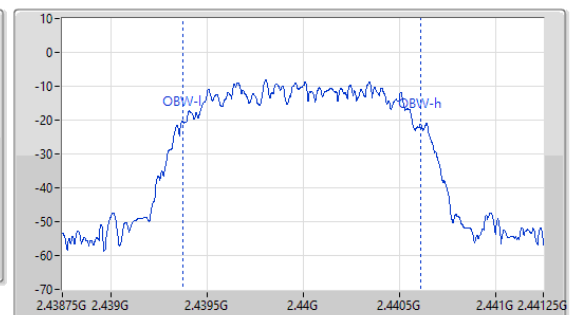
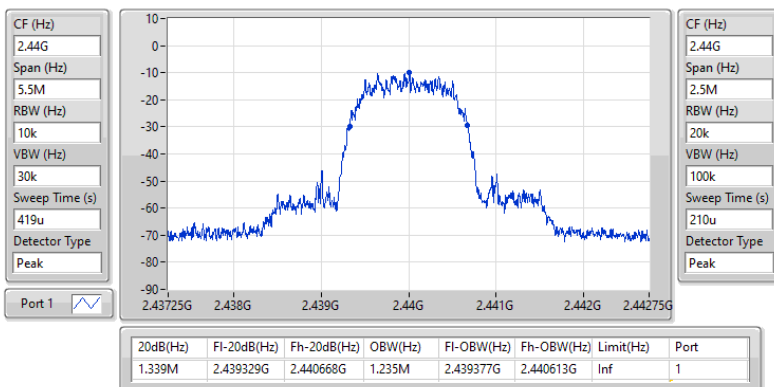


2.4-2.4835GHz_BT-EDR(2Mbps)

EBW-FS

2440MHz

30/10/2025

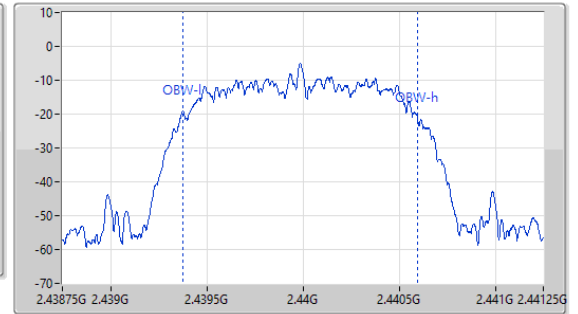
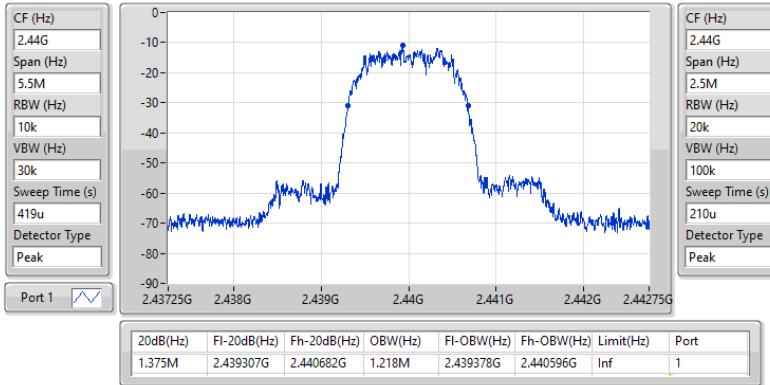


2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2440MHz

30/10/2025





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	999k	999k
BT-EDR(2Mbps)	1.002M	999k
BT-EDR(3Mbps)	1.002M	1.0005M

Result

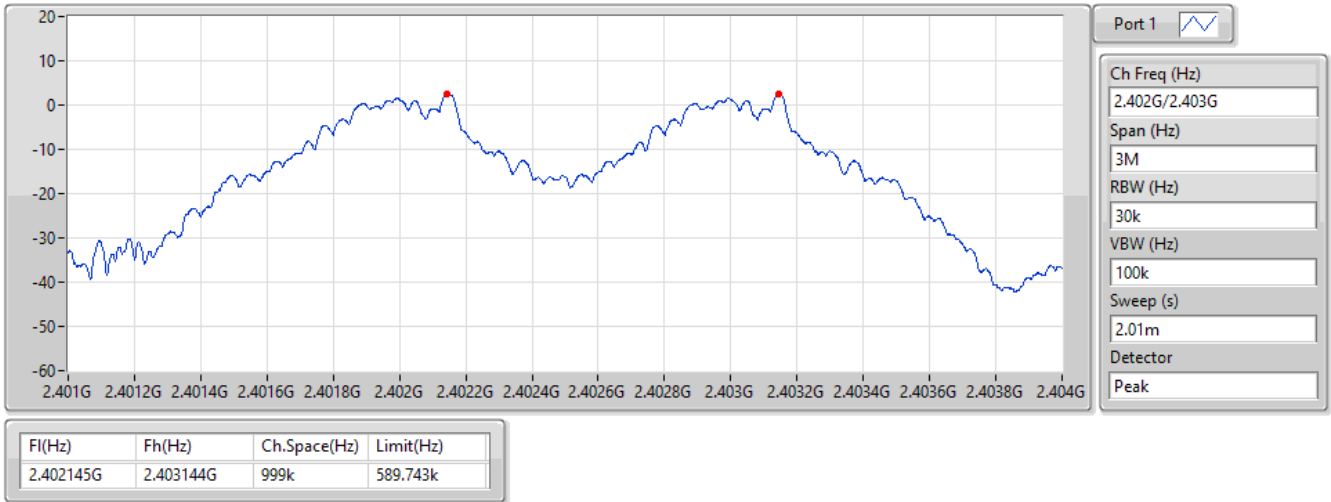
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402145G	2.403144G	999k	589.743k
2440MHz	Pass	2.440152G	2.441151G	999k	639.1935k
2480MHz	Pass	2.479154G	2.480153G	999k	613.5525k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401992G	2.402991G	999k	888.444k
2440MHz	Pass	2.439996G	2.440997G	1.0005M	891.774k
2480MHz	Pass	2.478999G	2.480001G	1.002M	891.774k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402145G	2.403145G	1.0005M	857.142k
2440MHz	Pass	2.440149G	2.441151G	1.002M	915.75k
2480MHz	Pass	2.479152G	2.480153G	1.0005M	869.796k

2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

30/10/2025

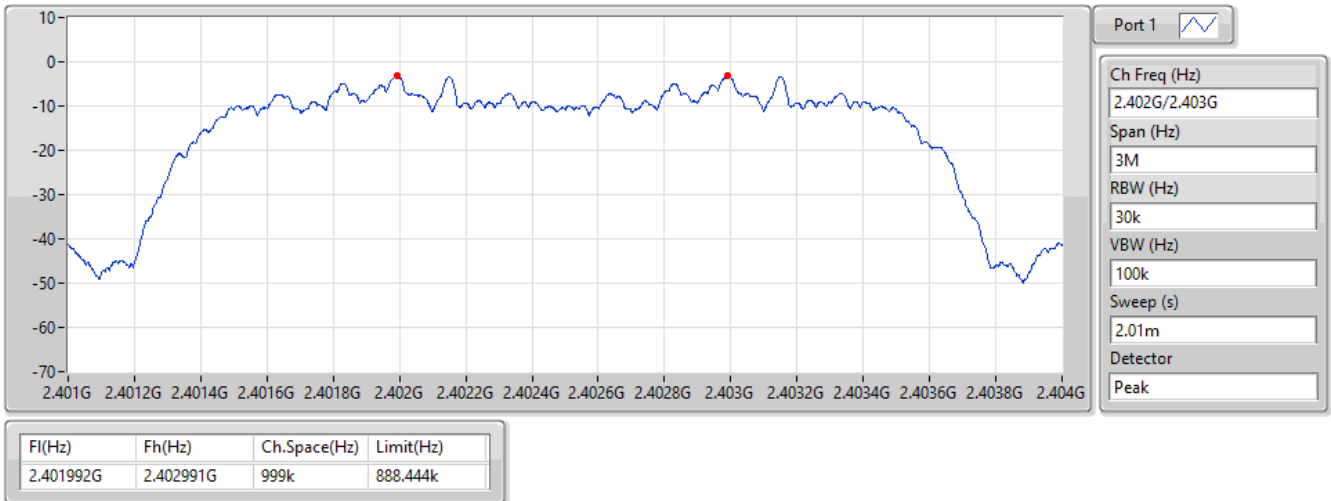


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.402G/2.403GHz

30/10/2025

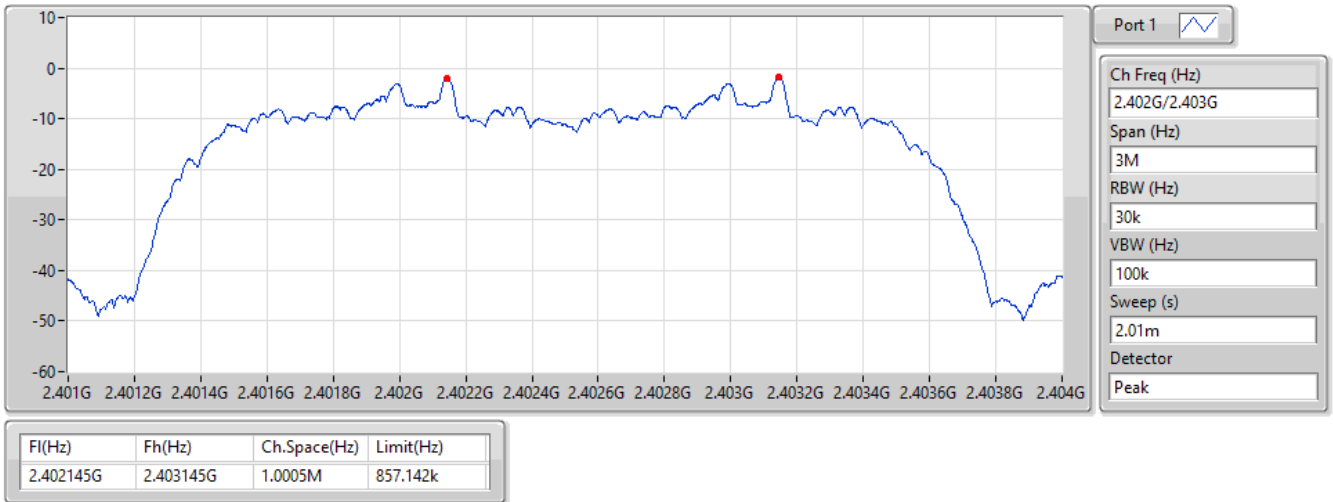


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

30/10/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.37	0.00344
BT-EDR(2Mbps)	3.48	0.00223
BT-EDR(3Mbps)	3.69	0.00234

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.72	4.14	21.00
2440MHz	Pass	3.72	4.76	21.00
2480MHz	Pass	3.72	5.37	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.72	1.95	21.00
2440MHz	Pass	3.72	3.03	21.00
2480MHz	Pass	3.72	3.48	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.72	2.74	21.00
2440MHz	Pass	3.72	3.24	21.00
2480MHz	Pass	3.72	3.69	21.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	4.96	0.00313
BT-EDR(2Mbps)	0.69	0.00117
BT-EDR(3Mbps)	0.70	0.00117

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.72	3.74	21.00
2440MHz	Pass	3.72	4.37	21.00
2480MHz	Pass	3.72	4.96	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.72	-0.99	21.00
2440MHz	Pass	3.72	0.17	21.00
2480MHz	Pass	3.72	0.69	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.72	-0.50	21.00
2440MHz	Pass	3.72	0.16	21.00
2480MHz	Pass	3.72	0.70	21.00

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



Summary

Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

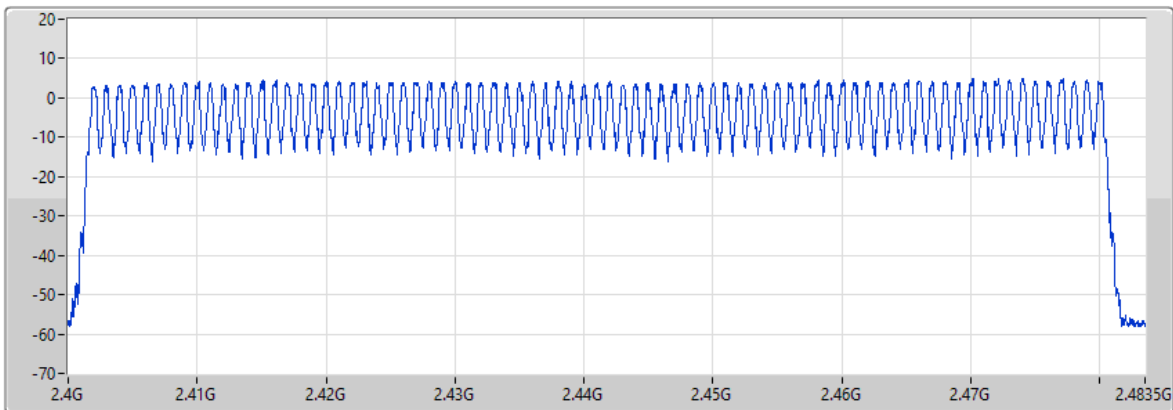
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

2.4-2.4835GHz_BT-BR(1Mbps)

Hopping-FS

2440MHz

30/10/2025



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
8.01ms

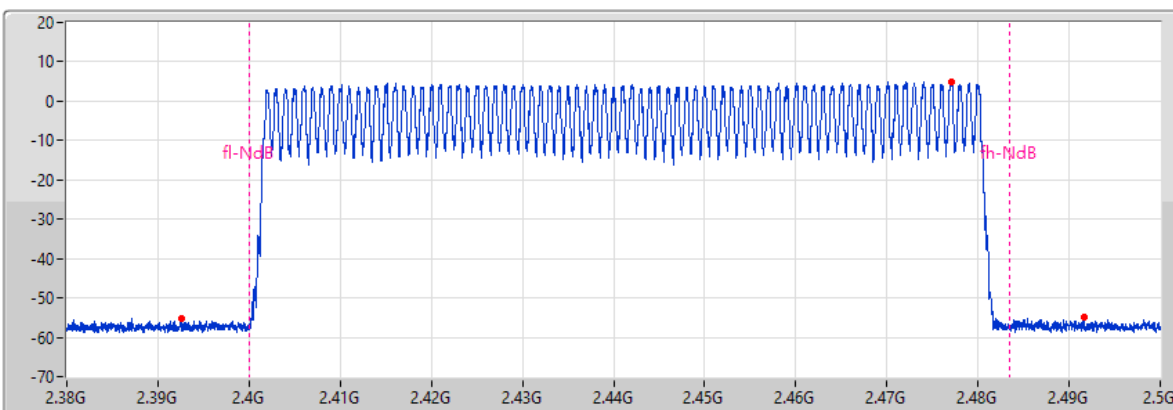
Detector
Peak

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

30/10/2025



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
8.01m

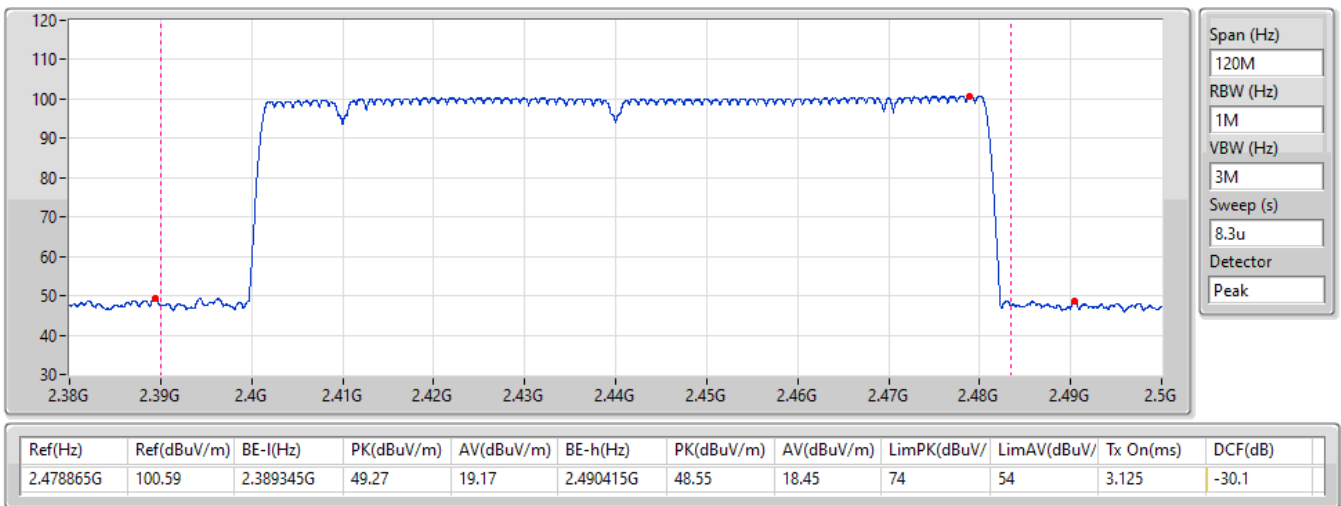
Detector
Peak

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

30/10/2025

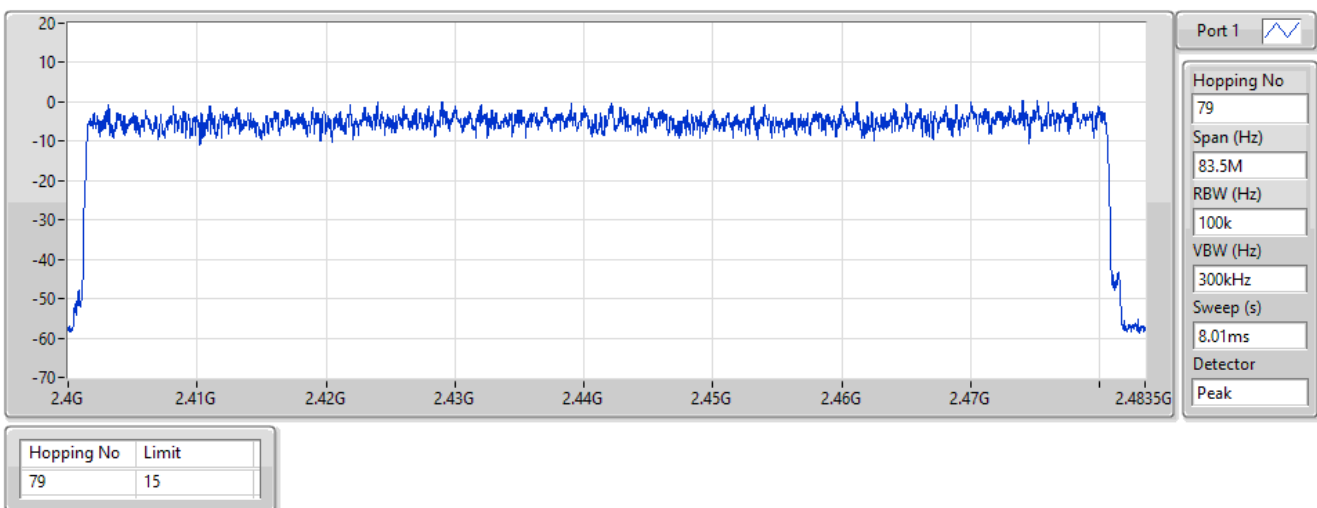


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping-FS

30/10/2025

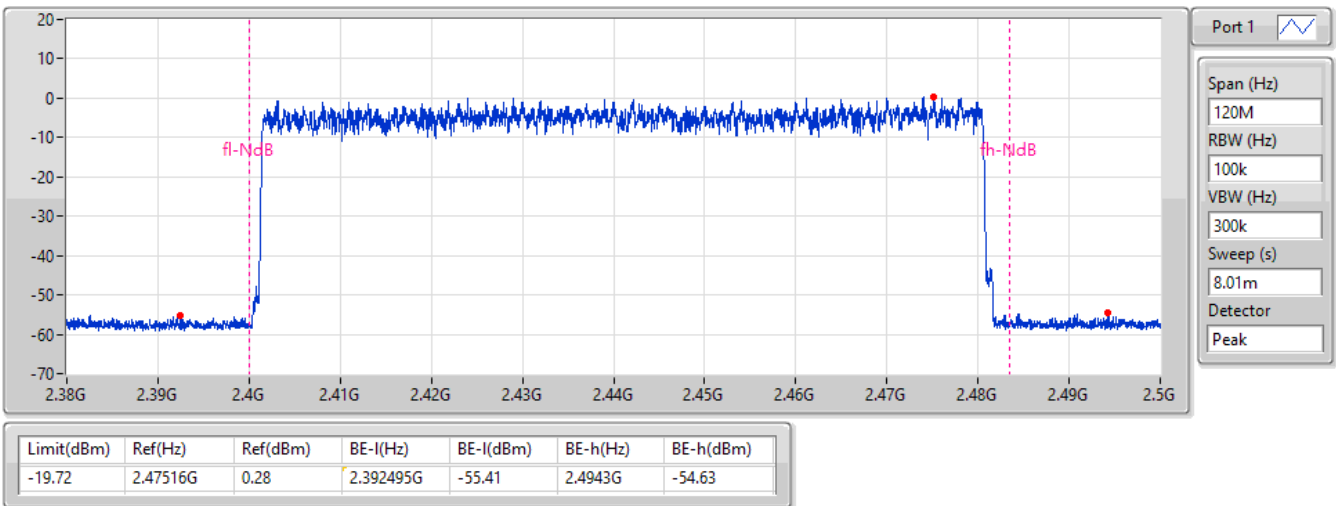


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

30/10/2025

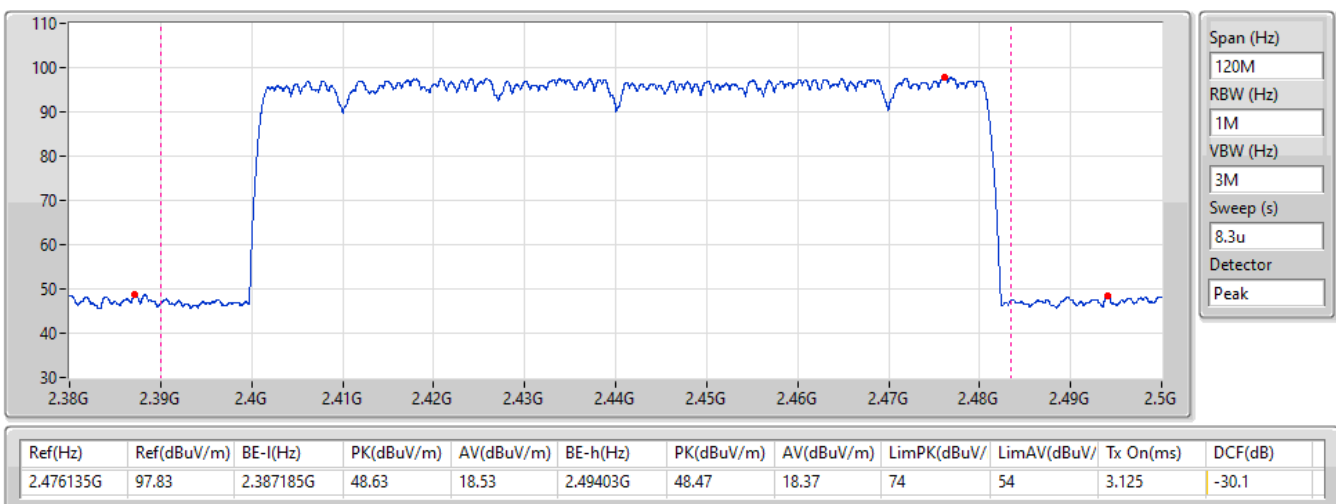


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

30/10/2025

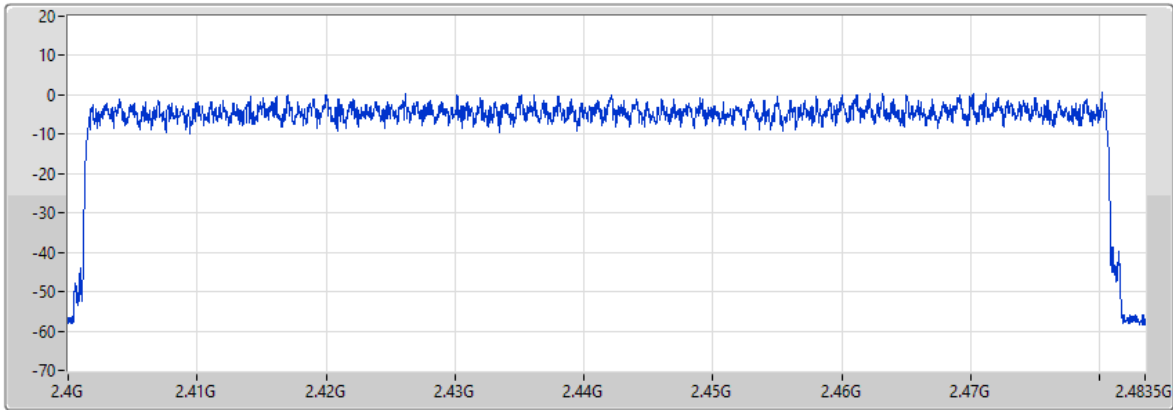


2.4-2.4835GHz_BT-EDR(3Mbps)

Hopping-FS

2440MHz

30/10/2025



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
8.01ms

Detector
Peak

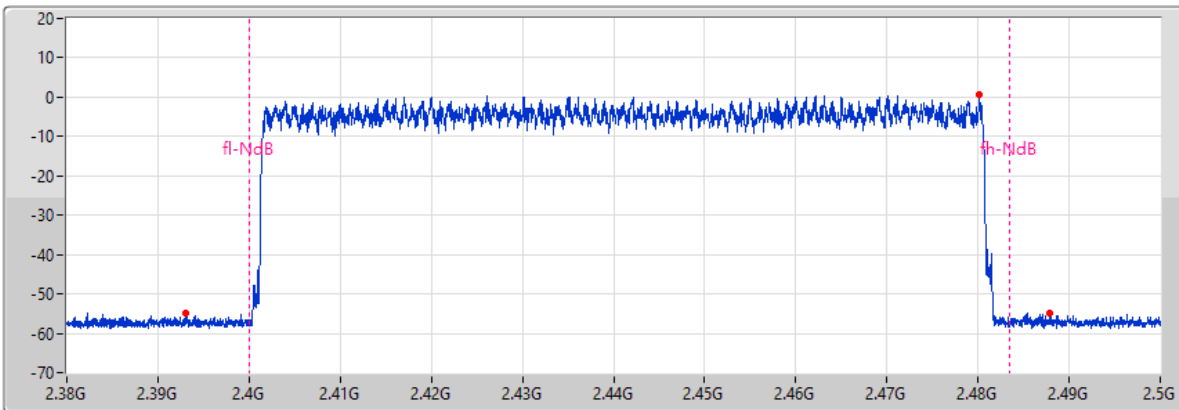
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

30/10/2025



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
8.01m

Detector
Peak

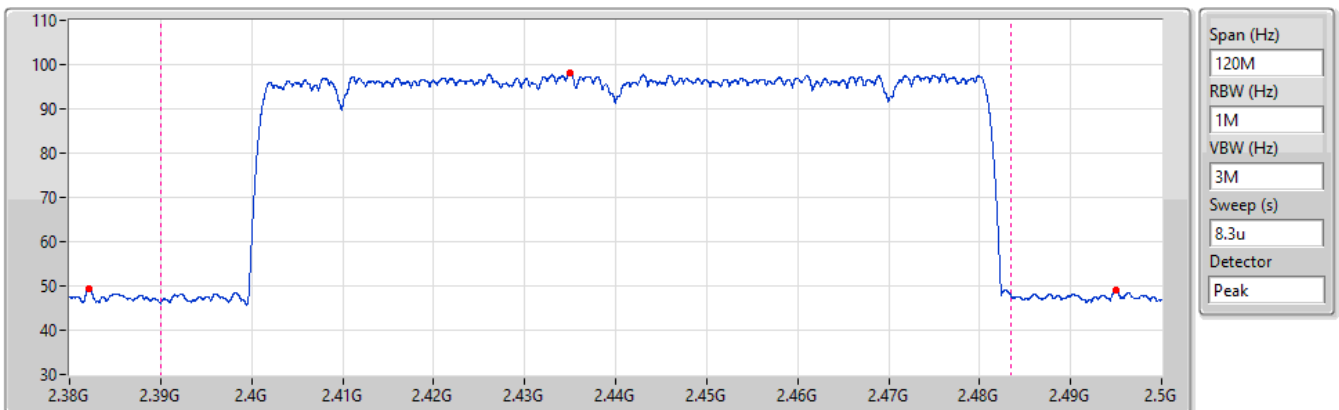
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-19.49	2.480155G	0.51	2.39311G	-55.01	2.48782G	-54.77

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

30/10/2025



Span (Hz)
120M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep (s)
8.3u

Detector
Peak

Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.434975G	98.22	2.382145G	49.28	19.18	2.494945G	48.92	18.82	74	54	3.125	-30.1



Summary

2.4-2.4835GHz	-
BT-BR(1Mbps)	311.67175m_DH5
BT-EDR(2Mbps)	311.56515m_DH5
BT-EDR(3Mbps)	312.20475m_DH5

Result

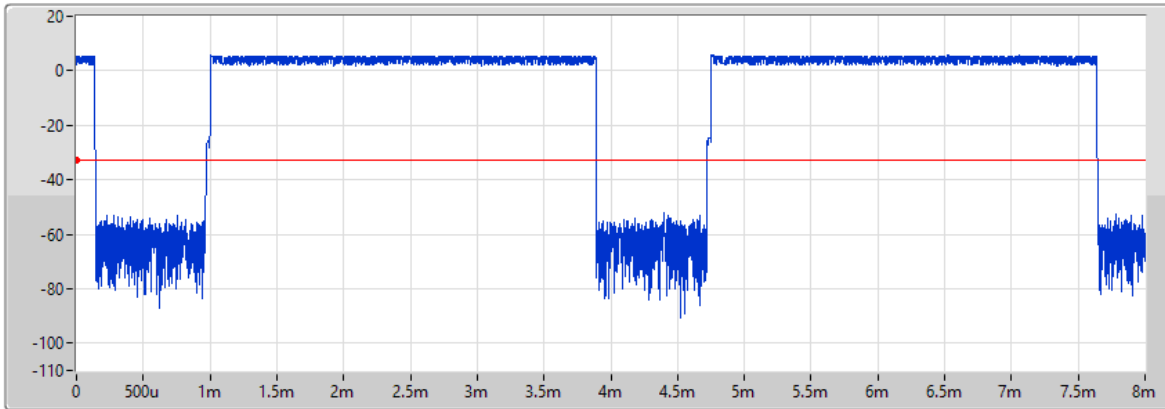
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.67175m_DH5	400m	2.92375m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.56515m_DH5	400m	2.92275m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	312.20475m_DH5	400m	2.92875m

2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

30/10/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.92375m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.67175m_DH5	400m	2.92375m

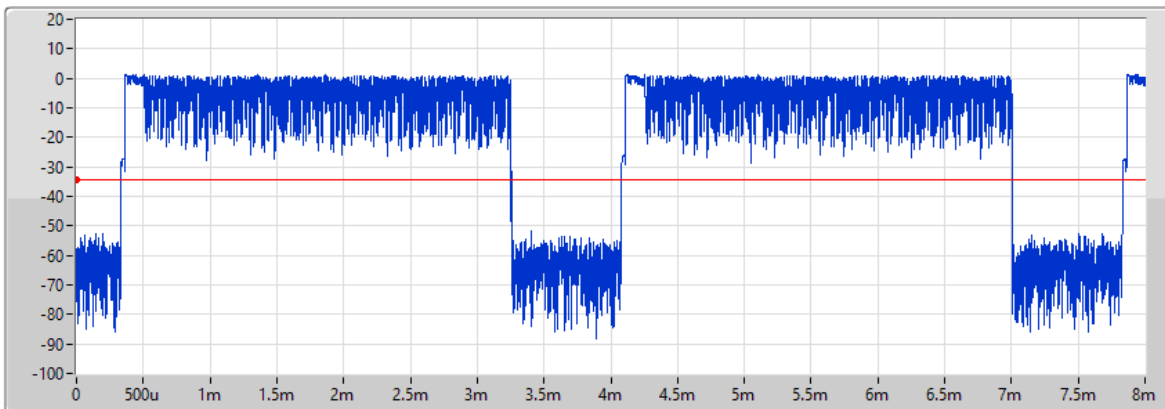
DH5

2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

30/10/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.92275m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.56515m_DH5	400m	2.92275m

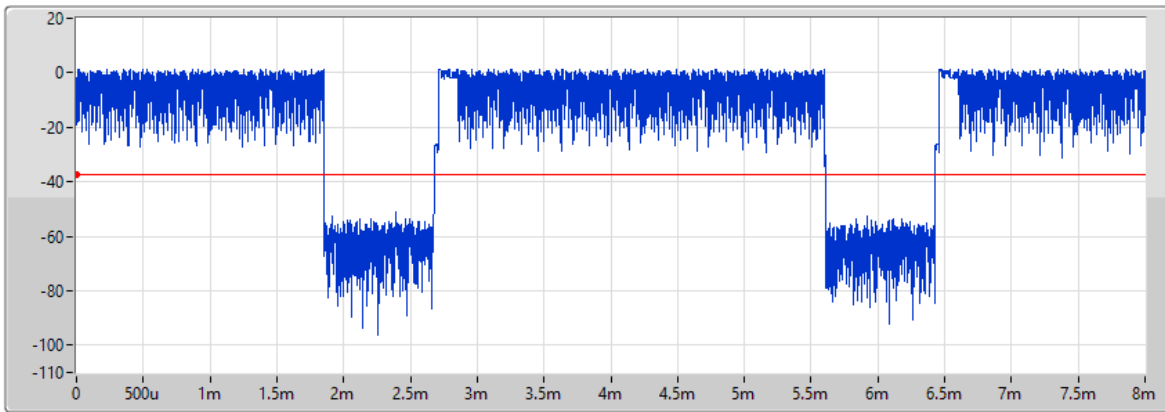
DH5

2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

30/10/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.92875m

DH5

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	312.20475m_DH5	400m	2.92875m



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-BR(1Mbps)	Pass	2.48016G	4.81	-15.19	44.1M	-55.18	2.39152G	-54.22	2.4G	-54.44	2.50282G	-55.95	21.91236G	-43.23	1
BT-EDR(2Mbps)	Pass	2.48033G	0.10	-19.90	2.14853G	-54.70	2.39492G	-55.15	2.4G	-56.55	2.5035G	-55.47	21.92079G	-43.21	1
BT-EDR(3Mbps)	Pass	2.47999G	0.04	-19.96	1.94408G	-53.90	2.39576G	-55.15	2.4G	-58.20	2.50266G	-55.33	21.95735G	-43.23	1

Result

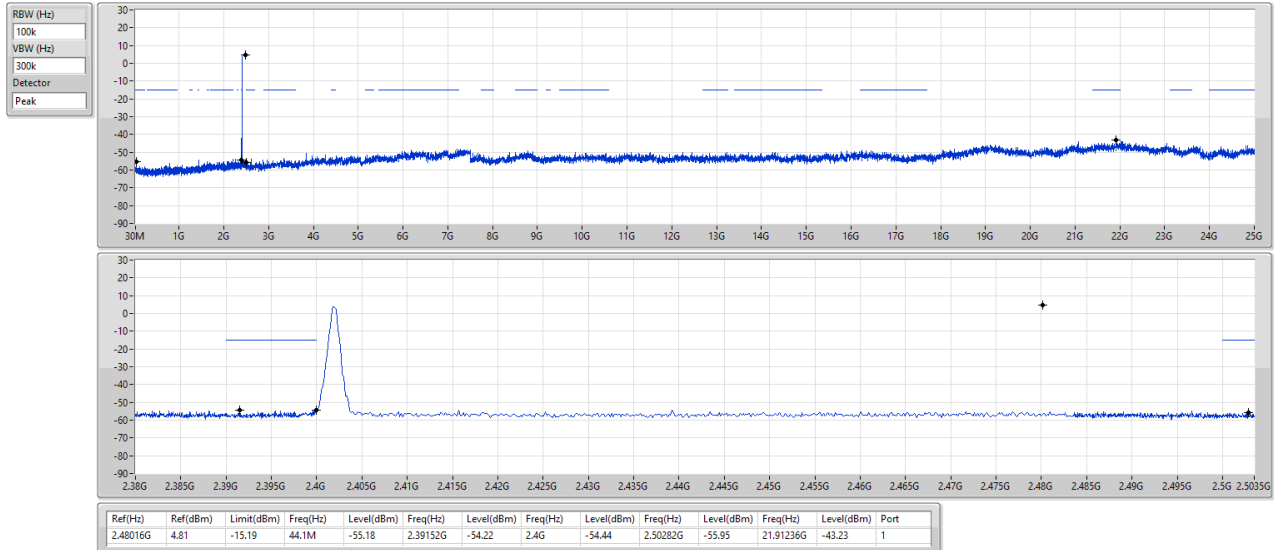
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48016G	4.81	-15.19	44.1M	-55.18	2.39152G	-54.22	2.4G	-54.44	2.50282G	-55.95	21.91236G	-43.23	1
2440MHz	Pass	2.48016G	4.81	-15.19	1.89003G	-54.25	2.39244G	-54.77	2.4G	-57.10	2.50106G	-55.85	21.5496G	-43.69	1
2480MHz	Pass	2.48016G	4.81	-15.19	2.13443G	-54.62	2.39552G	-54.88	2.4G	-58.01	2.50266G	-55.81	21.56647G	-44.23	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48033G	0.10	-19.90	2.17085G	-54.76	2.3998G	-54.80	2.4G	-54.92	2.50102G	-54.96	21.87017G	-44.87	1
2440MHz	Pass	2.48033G	0.10	-19.90	2.14853G	-54.70	2.39492G	-55.15	2.4G	-56.55	2.5035G	-55.47	21.92079G	-43.21	1
2480MHz	Pass	2.48033G	0.10	-19.90	2.18495G	-55.18	2.39256G	-55.13	2.4G	-57.02	2.50114G	-55.58	21.94048G	-43.68	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47999G	0.04	-19.96	2.16733G	-54.78	2.39704G	-54.12	2.4G	-55.31	2.50178G	-55.82	21.63396G	-43.99	1
2440MHz	Pass	2.47999G	0.04	-19.96	2.30598G	-54.40	2.39308G	-54.97	2.4G	-57.06	2.5021G	-55.54	21.58616G	-44.03	1
2480MHz	Pass	2.47999G	0.04	-19.96	1.94408G	-53.90	2.39576G	-55.15	2.4G	-58.20	2.50266G	-55.33	21.95735G	-43.23	1

2.4-2.4835GHz_BT-BR(1Mbps)

CSENdb-FS

2402MHz

30/10/2025

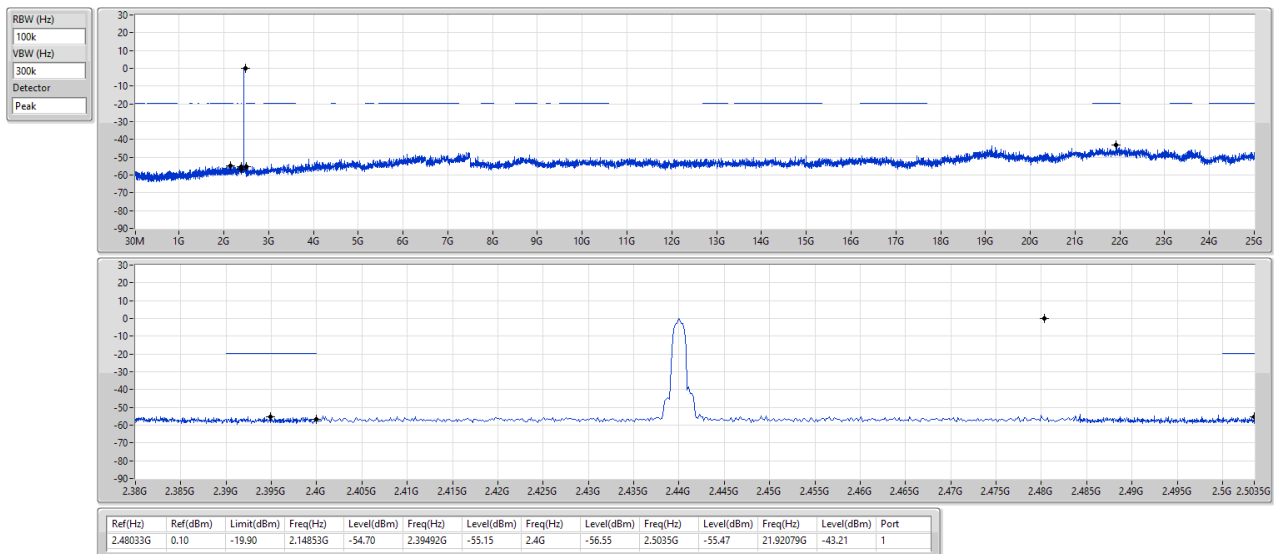


2.4-2.4835GHz_BT-EDR(2Mbps)

CSENdb-FS

2440MHz

30/10/2025



2.4-2.4835GHz_BT-EDR(3Mbps)

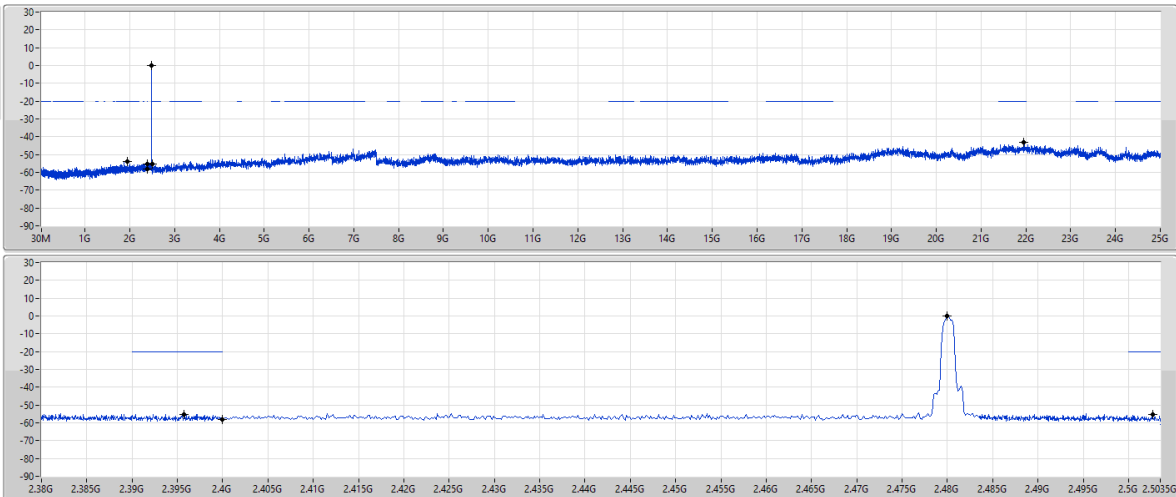
CSEndB-FS

2480MHz

30/10/2025

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
2.47999G	0.04	-19.96	1.94408G	-53.90	2.39576G	-55.15	2.4G	-58.20	2.50266G	-55.33	21.95735G	-43.23	1



Summary

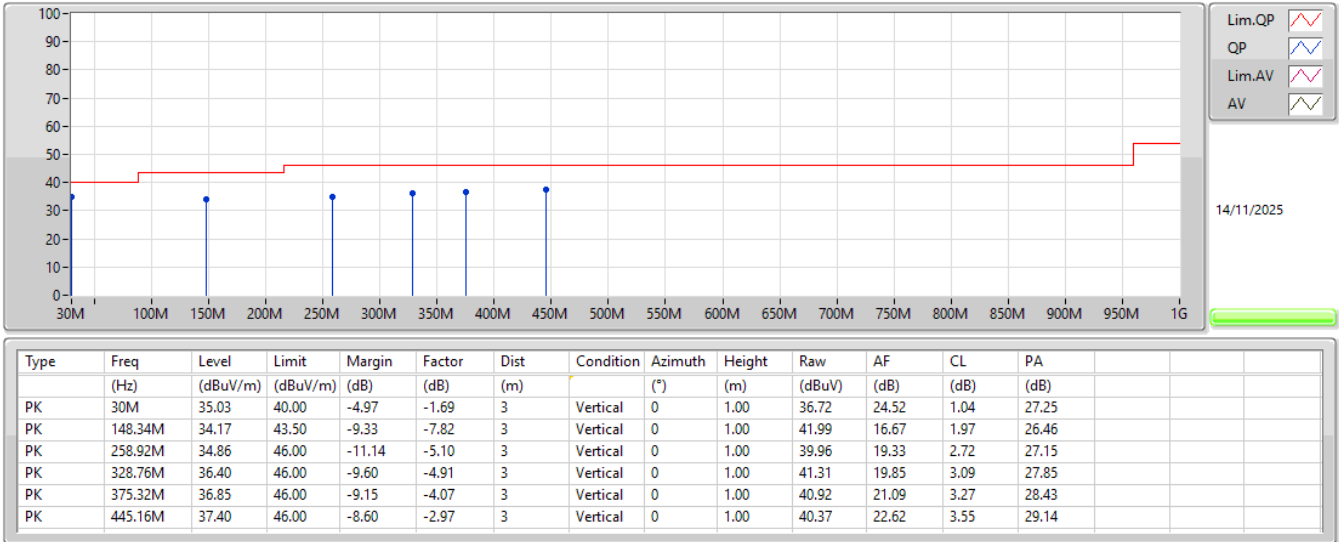
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-EDR(3Mbps)	Pass	PK	30M	35.03	40.00	-4.97	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	35.03	40.00	-4.97	3	Vertical	0	1.00
2440MHz	Pass	PK	148.34M	34.17	43.50	-9.33	3	Vertical	0	1.00
2440MHz	Pass	PK	258.92M	34.86	46.00	-11.14	3	Vertical	0	1.00
2440MHz	Pass	PK	328.76M	36.40	46.00	-9.60	3	Vertical	0	1.00
2440MHz	Pass	PK	375.32M	36.85	46.00	-9.15	3	Vertical	0	1.00
2440MHz	Pass	PK	445.16M	37.40	46.00	-8.60	3	Vertical	0	1.00
2440MHz	Pass	PK	30M	26.42	40.00	-13.58	3	Horizontal	360	1.00
2440MHz	Pass	PK	148.34M	34.15	43.50	-9.35	3	Horizontal	360	1.00
2440MHz	Pass	PK	204.6M	38.17	43.50	-5.33	3	Horizontal	360	1.00
2440MHz	Pass	PK	375.32M	38.65	46.00	-7.35	3	Horizontal	360	1.00
2440MHz	Pass	PK	540.22M	34.78	46.00	-11.22	3	Horizontal	360	1.00
2440MHz	Pass	QP	288.02M	40.03	46.00	-5.97	3	Horizontal	150	1.00

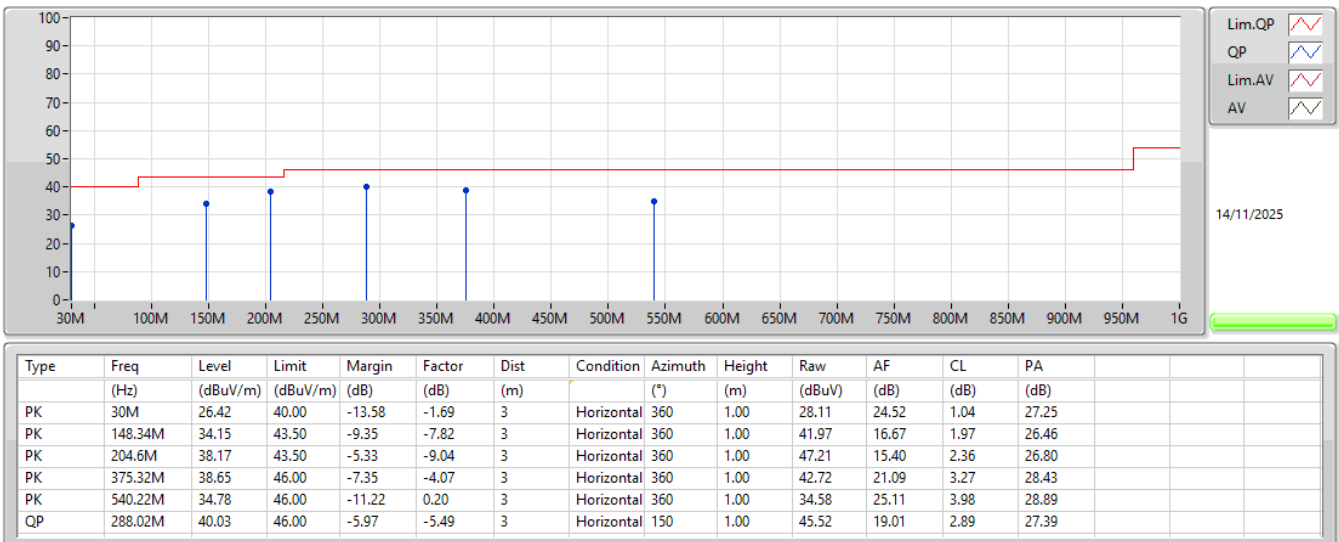
2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_Adapter 12V



2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_Adapter 12V





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-BR(1Mbps)	Pass	PK	2.4876G	59.00	74.00	-15.00	3	Vertical	205	1.58
BT-EDR(3Mbps)	Pass	PK	2.4928G	59.11	74.00	-14.89	3	Horizontal	207	1.82

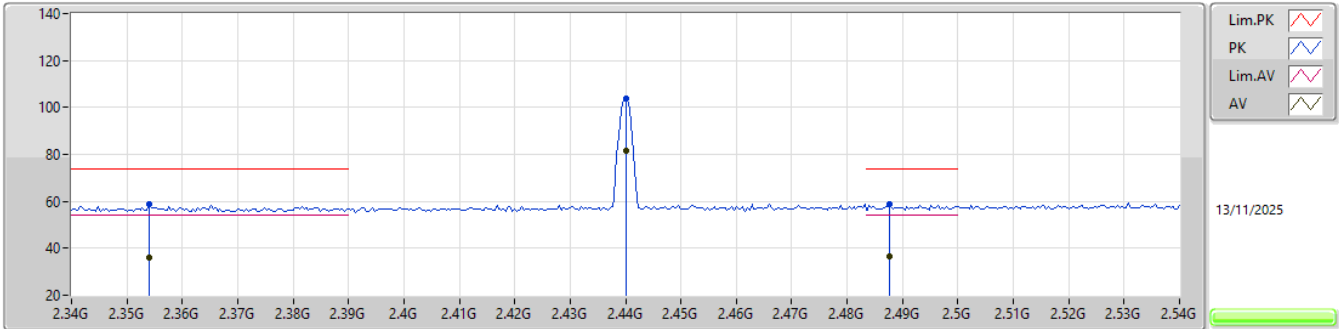
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3528G	35.16	54.00	-18.84	3	Vertical	199	2.81
2402MHz	Pass	AV	2.4018G	80.68	Inf	-Inf	3	Vertical	199	2.81
2402MHz	Pass	PK	2.3528G	57.66	74.00	-16.34	3	Vertical	199	2.81
2402MHz	Pass	PK	2.4018G	103.18	Inf	-Inf	3	Vertical	199	2.81
2402MHz	Pass	AV	2.37G	36.35	54.00	-17.65	3	Horizontal	217	1.70
2402MHz	Pass	AV	2.4018G	77.73	Inf	-Inf	3	Horizontal	217	1.70
2402MHz	Pass	PK	2.37G	58.85	74.00	-15.15	3	Horizontal	217	1.70
2402MHz	Pass	PK	2.4018G	100.23	Inf	-Inf	3	Horizontal	217	1.70
2402MHz	Pass	AV	4.79902G	22.78	54.00	-31.22	3	Vertical	86	2.58
2402MHz	Pass	PK	4.79902G	45.28	74.00	-28.72	3	Vertical	86	2.58
2402MHz	Pass	AV	4.80964G	23.16	54.00	-30.84	3	Horizontal	83	1.38
2402MHz	Pass	PK	4.80964G	45.66	74.00	-28.34	3	Horizontal	83	1.38
2440MHz	Pass	AV	2.354G	36.12	54.00	-17.88	3	Vertical	205	1.58
2440MHz	Pass	AV	2.44G	81.34	Inf	-Inf	3	Vertical	205	1.58
2440MHz	Pass	AV	2.4876G	36.50	54.00	-17.50	3	Vertical	205	1.58
2440MHz	Pass	PK	2.354G	58.62	74.00	-15.38	3	Vertical	205	1.58
2440MHz	Pass	PK	2.44G	103.84	Inf	-Inf	3	Vertical	205	1.58
2440MHz	Pass	PK	2.4876G	59.00	74.00	-15.00	3	Vertical	205	1.58
2440MHz	Pass	AV	2.3708G	35.45	54.00	-18.55	3	Horizontal	217	1.82
2440MHz	Pass	AV	2.44G	80.86	Inf	-Inf	3	Horizontal	217	1.82
2440MHz	Pass	AV	2.4964G	36.28	54.00	-17.72	3	Horizontal	217	1.82
2440MHz	Pass	PK	2.3708G	57.95	74.00	-16.05	3	Horizontal	217	1.82
2440MHz	Pass	PK	2.44G	103.36	Inf	-Inf	3	Horizontal	217	1.82
2440MHz	Pass	PK	2.4964G	58.78	74.00	-15.22	3	Horizontal	217	1.82
2440MHz	Pass	AV	4.87941G	23.97	54.00	-30.03	3	Vertical	112	1.50
2440MHz	Pass	PK	4.88139G	46.47	74.00	-27.53	3	Vertical	112	1.50
2440MHz	Pass	AV	4.88004G	24.16	54.00	-29.84	3	Horizontal	222	1.00
2440MHz	Pass	PK	4.87898G	46.66	74.00	-27.34	3	Horizontal	222	1.00
2480MHz	Pass	AV	2.4802G	83.07	Inf	-Inf	3	Vertical	205	1.49
2480MHz	Pass	AV	2.495G	36.35	54.00	-17.65	3	Vertical	205	1.49
2480MHz	Pass	PK	2.4802G	105.57	Inf	-Inf	3	Vertical	205	1.49
2480MHz	Pass	PK	2.495G	58.85	74.00	-15.15	3	Vertical	205	1.49
2480MHz	Pass	AV	2.4798G	82.23	Inf	-Inf	3	Horizontal	219	1.75
2480MHz	Pass	AV	2.4968G	35.93	54.00	-18.07	3	Horizontal	219	1.75
2480MHz	Pass	PK	2.4798G	104.73	Inf	-Inf	3	Horizontal	219	1.75
2480MHz	Pass	PK	2.4968G	58.43	74.00	-15.57	3	Horizontal	219	1.75
2480MHz	Pass	AV	4.96044G	24.69	54.00	-29.31	3	Vertical	89	1.50
2480MHz	Pass	PK	4.95944G	47.19	74.00	-26.81	3	Vertical	89	1.50
2480MHz	Pass	AV	4.9586G	24.64	54.00	-29.36	3	Horizontal	248	1.50
2480MHz	Pass	PK	4.95866G	47.14	74.00	-26.86	3	Horizontal	248	1.50
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.36G	35.55	54.00	-18.45	3	Vertical	198	2.87
2402MHz	Pass	AV	2.402G	77.86	Inf	-Inf	3	Vertical	198	2.87
2402MHz	Pass	PK	2.36G	58.05	74.00	-15.95	3	Vertical	198	2.87
2402MHz	Pass	PK	2.402G	100.36	Inf	-Inf	3	Vertical	198	2.87
2402MHz	Pass	AV	2.3866G	36.37	54.00	-17.63	3	Horizontal	230	1.50
2402MHz	Pass	AV	2.402G	73.59	Inf	-Inf	3	Horizontal	230	1.50
2402MHz	Pass	PK	2.3866G	58.87	74.00	-15.13	3	Horizontal	230	1.50
2402MHz	Pass	PK	2.402G	96.09	Inf	-Inf	3	Horizontal	230	1.50
2402MHz	Pass	AV	4.80377G	23.13	54.00	-30.87	3	Vertical	196	1.50
2402MHz	Pass	PK	4.80435G	45.63	74.00	-28.37	3	Vertical	196	1.50
2402MHz	Pass	AV	4.8051G	23.73	54.00	-30.27	3	Horizontal	320	2.51
2402MHz	Pass	PK	4.8055G	46.23	74.00	-27.77	3	Horizontal	320	2.51
2440MHz	Pass	AV	2.3644G	35.54	54.00	-18.46	3	Vertical	205	2.75
2440MHz	Pass	AV	2.44G	77.47	Inf	-Inf	3	Vertical	205	2.75
2440MHz	Pass	AV	2.5G	35.62	54.00	-18.38	3	Vertical	205	2.75
2440MHz	Pass	PK	2.3644G	58.04	74.00	-15.96	3	Vertical	205	2.75
2440MHz	Pass	PK	2.44G	99.97	Inf	-Inf	3	Vertical	205	2.75
2440MHz	Pass	PK	2.5G	58.12	74.00	-15.88	3	Vertical	205	2.75
2440MHz	Pass	AV	2.3884G	35.55	54.00	-18.45	3	Horizontal	207	1.82

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	73.15	Inf	-Inf	3	Horizontal	207	1.82
2440MHz	Pass	AV	2.4928G	36.61	54.00	-17.39	3	Horizontal	207	1.82
2440MHz	Pass	PK	2.3884G	58.05	74.00	-15.95	3	Horizontal	207	1.82
2440MHz	Pass	PK	2.44G	95.65	Inf	-Inf	3	Horizontal	207	1.82
2440MHz	Pass	PK	2.4928G	59.11	74.00	-14.89	3	Horizontal	207	1.82
2440MHz	Pass	AV	4.87957G	24.01	54.00	-29.99	3	Vertical	255	2.50
2440MHz	Pass	PK	4.88043G	46.51	74.00	-27.49	3	Vertical	255	2.50
2440MHz	Pass	AV	4.87989G	25.24	54.00	-28.76	3	Horizontal	138	2.94
2440MHz	Pass	PK	4.88027G	47.74	74.00	-26.26	3	Horizontal	138	2.94
2480MHz	Pass	AV	2.48G	80.00	Inf	-Inf	3	Vertical	205	1.50
2480MHz	Pass	AV	2.4852G	36.20	54.00	-17.80	3	Vertical	205	1.50
2480MHz	Pass	PK	2.48G	102.50	Inf	-Inf	3	Vertical	205	1.50
2480MHz	Pass	PK	2.4852G	58.70	74.00	-15.30	3	Vertical	205	1.50
2480MHz	Pass	AV	2.48G	79.26	Inf	-Inf	3	Horizontal	218	1.74
2480MHz	Pass	AV	2.4874G	36.24	54.00	-17.76	3	Horizontal	218	1.74
2480MHz	Pass	PK	2.48G	101.76	Inf	-Inf	3	Horizontal	218	1.74
2480MHz	Pass	PK	2.4874G	58.74	74.00	-15.26	3	Horizontal	218	1.74
2480MHz	Pass	AV	4.95867G	24.32	54.00	-29.68	3	Vertical	146	1.46
2480MHz	Pass	PK	4.96112G	46.82	74.00	-27.18	3	Vertical	146	1.46
2480MHz	Pass	AV	4.95894G	24.74	54.00	-29.26	3	Horizontal	136	1.50
2480MHz	Pass	PK	4.95974G	47.24	74.00	-26.76	3	Horizontal	136	1.50

2.4-2.4835GHz_BT-BR(1Mbps)

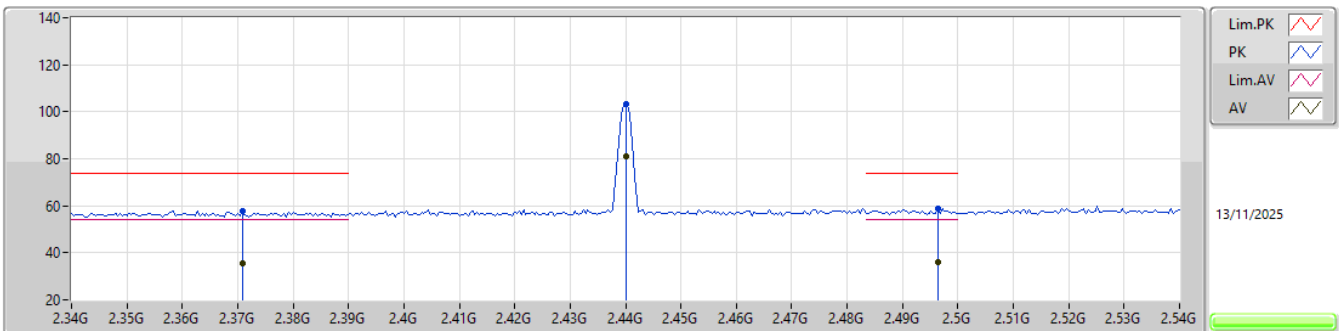
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.354G	36.12	54.00	-17.88	32.16	3	Vertical	205	1.58	3.96	27.30	4.86	-
AV	2.44G	81.34	Inf	-Inf	32.65	3	Vertical	205	1.58	48.69	27.70	4.95	-
AV	2.4876G	36.50	54.00	-17.50	32.90	3	Vertical	205	1.58	3.60	27.90	5.00	-
PK	2.354G	58.62	74.00	-15.38	32.16	3	Vertical	205	1.58	26.46	27.30	4.86	-
PK	2.44G	103.84	Inf	-Inf	32.65	3	Vertical	205	1.58	71.19	27.70	4.95	-
PK	2.4876G	59.00	74.00	-15.00	32.90	3	Vertical	205	1.58	26.10	27.90	5.00	-

2.4-2.4835GHz_BT-BR(1Mbps)

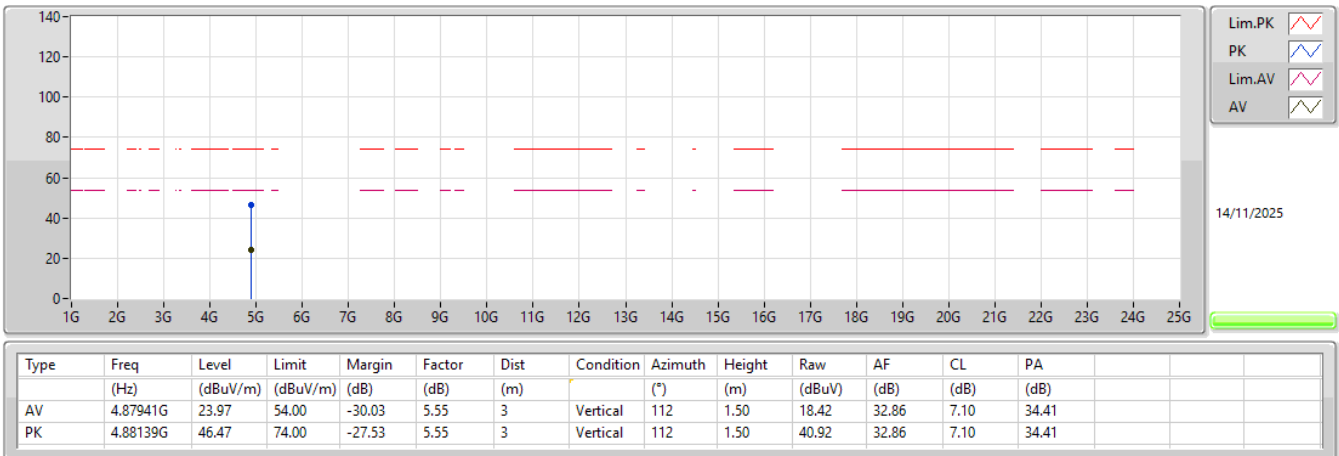
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3708G	35.45	54.00	-18.55	32.08	3	Horizontal	217	1.82	3.37	27.20	4.88	-
AV	2.44G	80.86	Inf	-Inf	32.65	3	Horizontal	217	1.82	48.21	27.70	4.95	-
AV	2.4964G	36.28	54.00	-17.72	32.85	3	Horizontal	217	1.82	3.43	27.84	5.01	-
PK	2.3708G	57.95	74.00	-16.05	32.08	3	Horizontal	217	1.82	25.87	27.20	4.88	-
PK	2.44G	103.36	Inf	-Inf	32.65	3	Horizontal	217	1.82	70.71	27.70	4.95	-
PK	2.4964G	58.78	74.00	-15.22	32.85	3	Horizontal	217	1.82	25.93	27.84	5.01	-

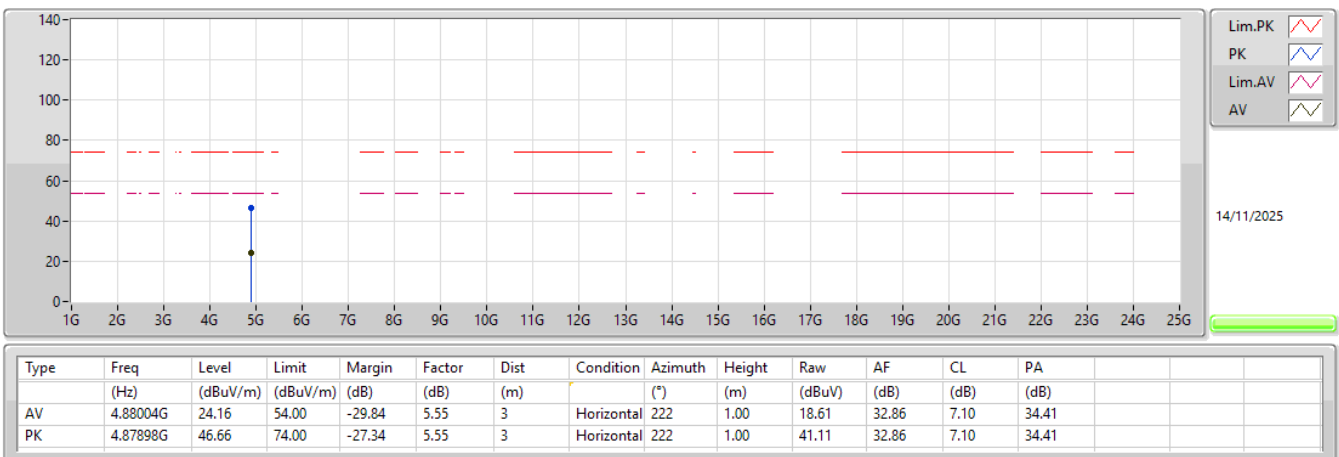
2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_TX



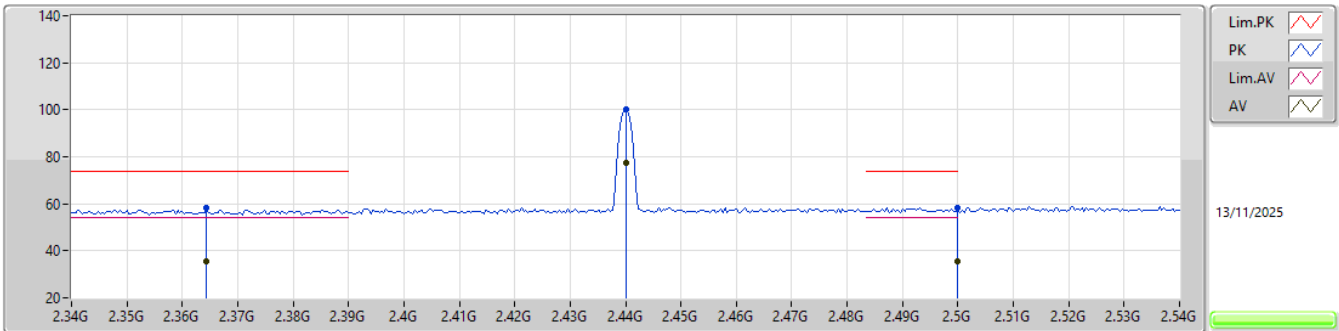
2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)

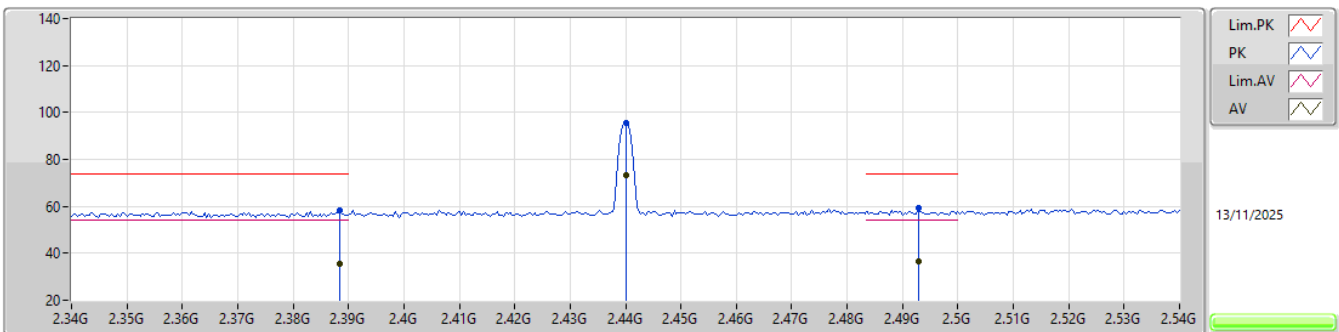
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3644G	35.54	54.00	-18.46	32.13	3	Vertical	205	2.75	3.41	27.26	4.87	-
AV	2.44G	77.47	Inf	-Inf	32.65	3	Vertical	205	2.75	44.82	27.70	4.95	-
AV	2.5G	35.62	54.00	-18.38	32.81	3	Vertical	205	2.75	2.81	27.80	5.01	-
PK	2.3644G	58.04	74.00	-15.96	32.13	3	Vertical	205	2.75	25.91	27.26	4.87	-
PK	2.44G	99.97	Inf	-Inf	32.65	3	Vertical	205	2.75	67.32	27.70	4.95	-
PK	2.5G	58.12	74.00	-15.88	32.81	3	Vertical	205	2.75	25.31	27.80	5.01	-

2.4-2.4835GHz_BT-EDR(3Mbps)

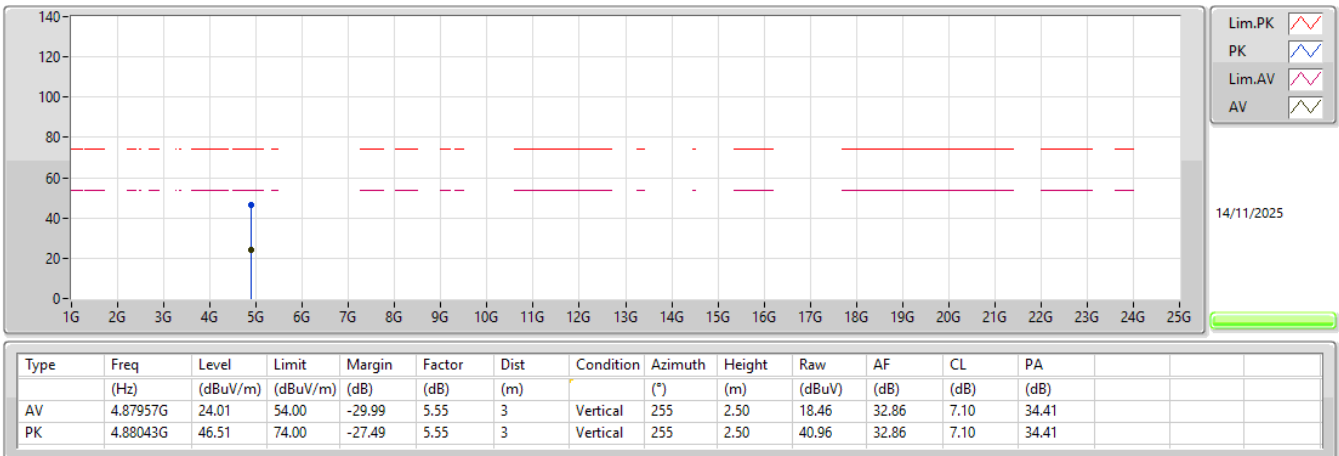
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3884G	35.55	54.00	-18.45	32.27	3	Horizontal	207	1.82	3.28	27.37	4.90	-
AV	2.44G	73.15	Inf	-Inf	32.65	3	Horizontal	207	1.82	40.50	27.70	4.95	-
AV	2.4928G	36.61	54.00	-17.39	32.87	3	Horizontal	207	1.82	3.74	27.87	5.00	-
PK	2.3884G	58.05	74.00	-15.95	32.27	3	Horizontal	207	1.82	25.78	27.37	4.90	-
PK	2.44G	95.65	Inf	-Inf	32.65	3	Horizontal	207	1.82	63.00	27.70	4.95	-
PK	2.4928G	59.11	74.00	-14.89	32.87	3	Horizontal	207	1.82	26.24	27.87	5.00	-

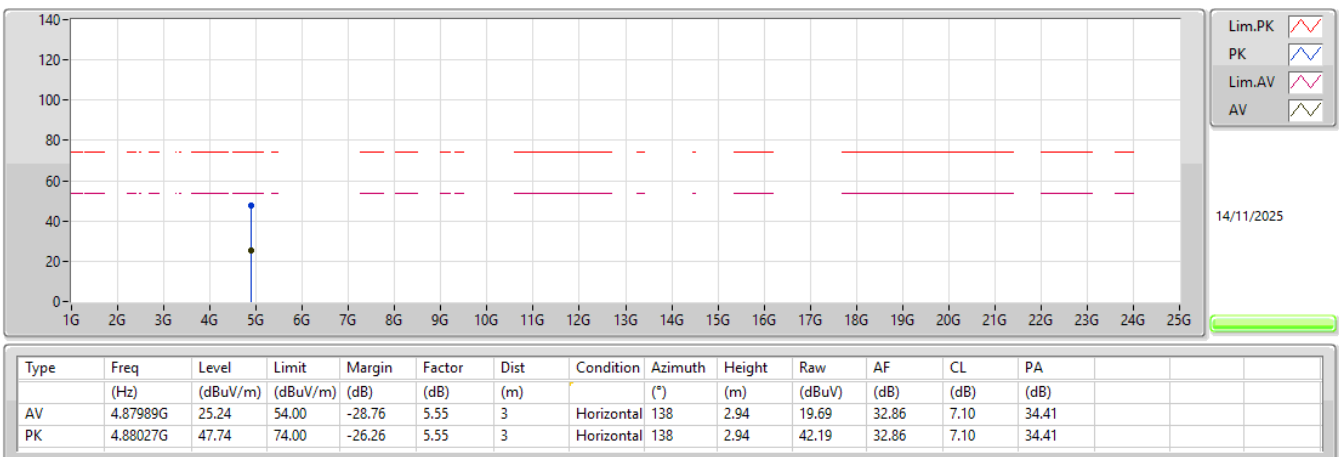
2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX





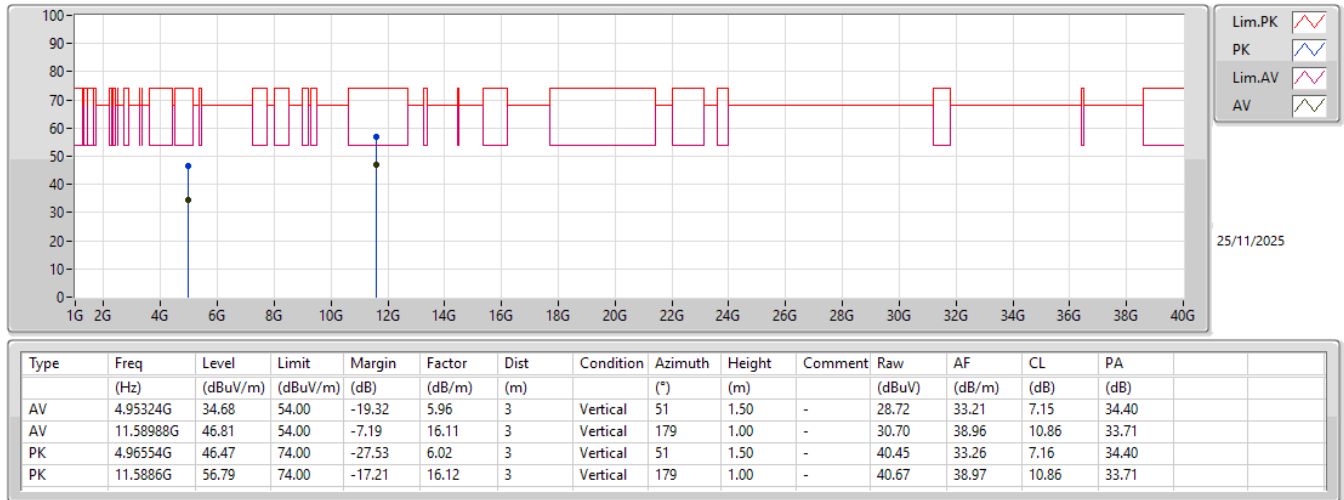
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	11.58988G	47.57	54.00	-6.43	Horizontal

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.95324G	34.68	54.00	-19.32	3	Vertical	51	1.50	-
Mode 1	Pass	AV	11.58988G	46.81	54.00	-7.19	3	Vertical	179	1.00	-
Mode 1	Pass	PK	4.96554G	46.47	74.00	-27.53	3	Vertical	51	1.50	-
Mode 1	Pass	PK	11.5886G	56.79	74.00	-17.21	3	Vertical	179	1.00	-
Mode 1	Pass	AV	4.94896G	34.64	54.00	-19.36	3	Horizontal	147	1.00	-
Mode 1	Pass	AV	11.58988G	47.57	54.00	-6.43	3	Horizontal	134	1.46	-
Mode 1	Pass	PK	4.96759G	46.49	74.00	-27.51	3	Horizontal	147	1.50	-
Mode 1	Pass	PK	11.59018G	56.74	74.00	-17.26	3	Horizontal	134	1.90	-

Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

