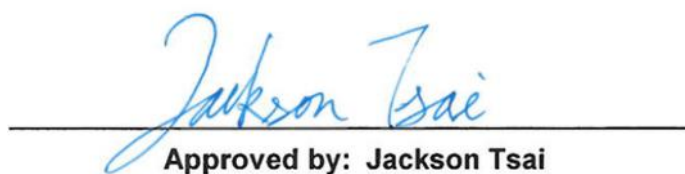


FCC Radio Test Report

FCC ID : 2AD8UCVTBF21A
Equipment : Nokia 360 Camera
Brand Name : Nokia
Model Name : CVTBF21A
Applicant : Nokia Solutions and Networks OY
3201 Olympus Blvd, Dallas, Texas, United States.
Zip Code: 75019
Manufacturer : PEGATRON Corporation Taoyuan Plant
No. 356, Shanying Rd., Guishan Dist., Taoyuan City
333, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 10, 2025, and testing was started from Jul. 28, 2025 and completed on Aug. 01, 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 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.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	7
1.3 Testing Location Information	7
1.4 Measurement Uncertainty	7
2 TEST CONFIGURATION OF EUT.....	8
2.1 Test Channel Mode	8
2.2 The Worst Case Measurement Configuration.....	9
2.3 Accessories	10
2.4 Support Equipment.....	10
2.5 Test Setup Diagram	11
3 TRANSMITTER TEST RESULT	12
3.1 AC Power-line Conducted Emissions	12
3.2 20dB Bandwidth and Carrier Frequency Separation.....	14
3.3 Maximum Conducted Output Power	15
3.4 Number of Hopping Frequencies and Hopping Bandedge	16
3.5 Time of Occupancy (Dwell Time)	17
3.6 Emissions in Non-restricted Frequency Bands	18
3.7 Emissions in Restricted Frequency Bands.....	19
4 TEST EQUIPMENT AND CALIBRATION DATA	22
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF 20DB BANDWIDTH AND CARRIER FREQUENCY SEPARATION	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF NUMBER OF HOPPING FREQUENCIES AND HOPPING BANDEDGE	
APPENDIX E. TEST RESULTS OF TIME OF OCCUPANCY (DWELL TIME)	
APPENDIX F. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V02	



History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C9 Ver.4.4
FCC ID: 2AD8UCVTBF21A

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 (MHz)	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	Model Name	Antenna Type	Connector	Support
0	WHAYU	C1335-510497-A	monopole	I-Pex	2.4G+5G+BT
1	WHAYU	C1335-510498-A	PIFA	I-Pex	2.4G+5G

Ant.	Port	Gain (dBi)					
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	BT
0	1	2.98	3.64	5.73	5.65	4.87	2.98
1	2	2.8	4.62	3.52	5.41	5.06	-

Note 1: The EUT has two antennas.

Note 2: For WLAN SISO and MIMO mode, only MIMO mode has been assessed due to the higher output power.

For 2.4GHz function:

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

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

Ant. 0 (port 1) and Ant. 1 (port 2) could transmit/receive simultaneously.

For BT function:

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

Ant. 0 (port 1) could transmit/receive.

For 5GHz function:

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

Ant. 0 (port 1) and Ant. 1 (port 2) could transmit/receive simultaneously.

Note 3: 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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{RB}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{RB}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{RB}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-BR(1Mbps)	0.782	1.07	2.888m	500
BT-EDR(2Mbps)	0.785	1.05	2.891m	500
BT-EDR(3Mbps)	0.785	1.05	2.893m	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

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	Simon Cheng	23.2~23.7°C / 53~64%	01/Aug/2025
RF Conducted	TH01-HY	Sonic Li	22.3~22.6°C / 50~52%	28/Jul/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.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH26-HY	Andy Wang	23.1~24.3°C / 51~56%	29/Jul/2025~01/Aug/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	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	PuTTY release 0.62
-----------------------	--------------------

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	PoE Mode

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)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Bluetooth (Ant0) + 5GHz(Ant0) + 5GHz(Ant1)
Refer to Sporton Test Report No.: FA550909-01 for Co-location RF Exposure Evaluation.	

2.3 Accessories

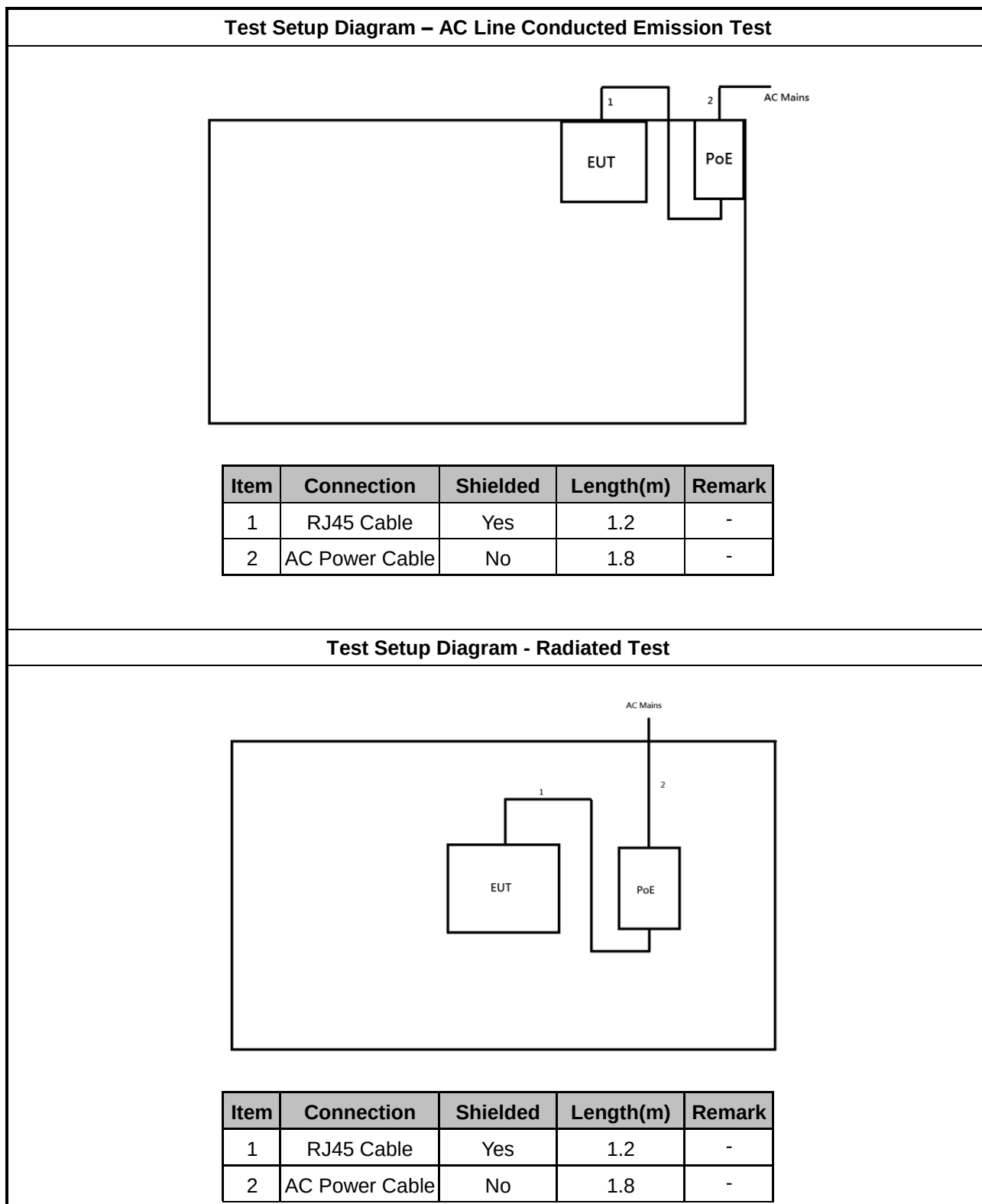
Accessories				
PoE	Brand Name	DELTA	Model Name	ADH-45AR B
	Power Rating	I/P: 100-240Vac, 1.5A, O/P: 56.0Vdc, 0.805A		
Battery	Brand Name	Atemitech	Model Name	VAL
	Power Rating	7.27Vdc, 2900mAh	Type	Li-ion
RJ45 Cable	Category	CAT 6A	In/Out door	Outdoor
	Signal Line	1.2 meter, shielded cable		

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

2.4 Support Equipment

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

2.5 Test Setup Diagram



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

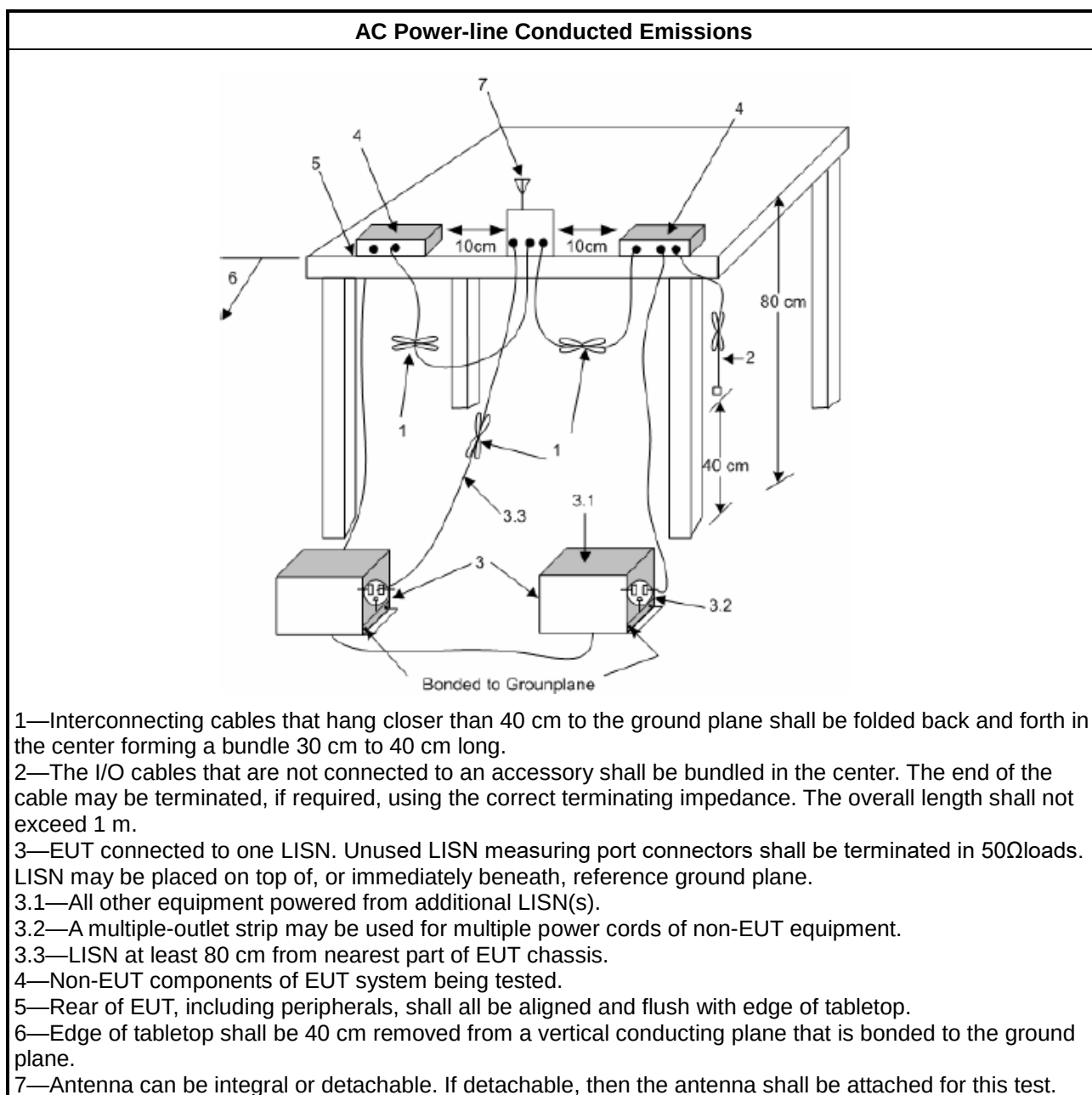
Test Method
▪ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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	

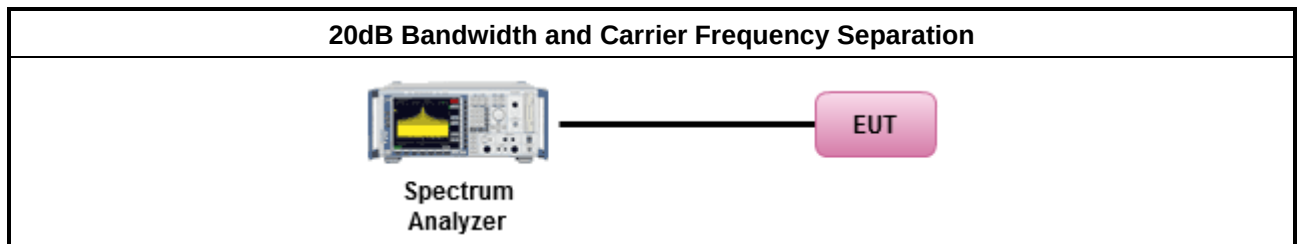
3.2.2 Measuring Instruments

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	

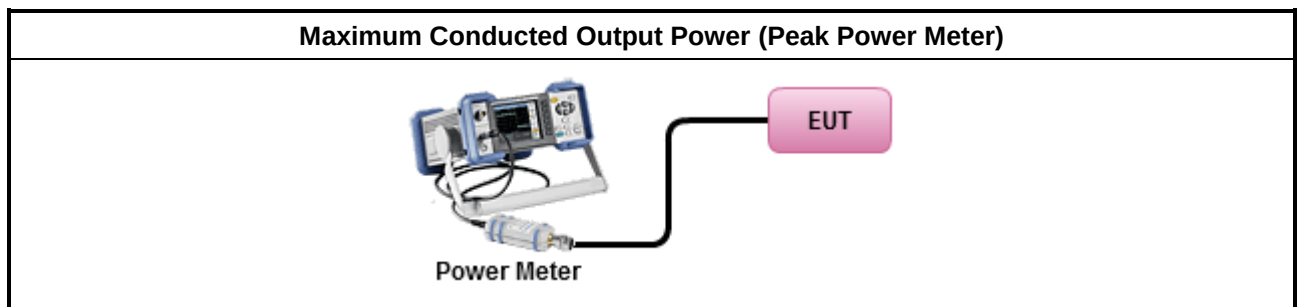
3.3.2 Measuring Instruments

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

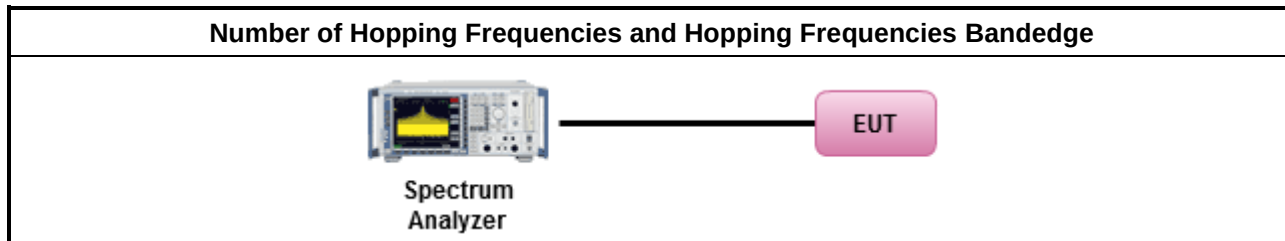
3.4.3 Measuring Instruments

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	

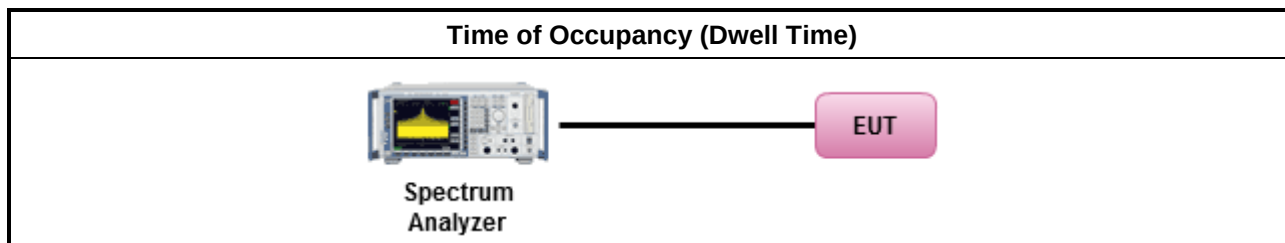
3.5.2 Measuring Instruments

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.	

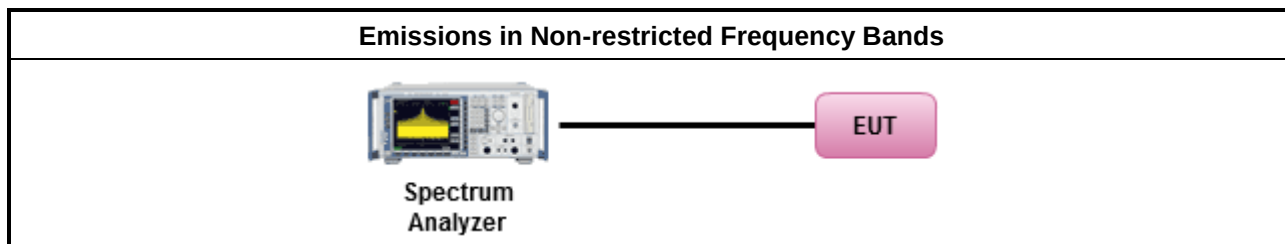
3.6.2 Measuring Instruments

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

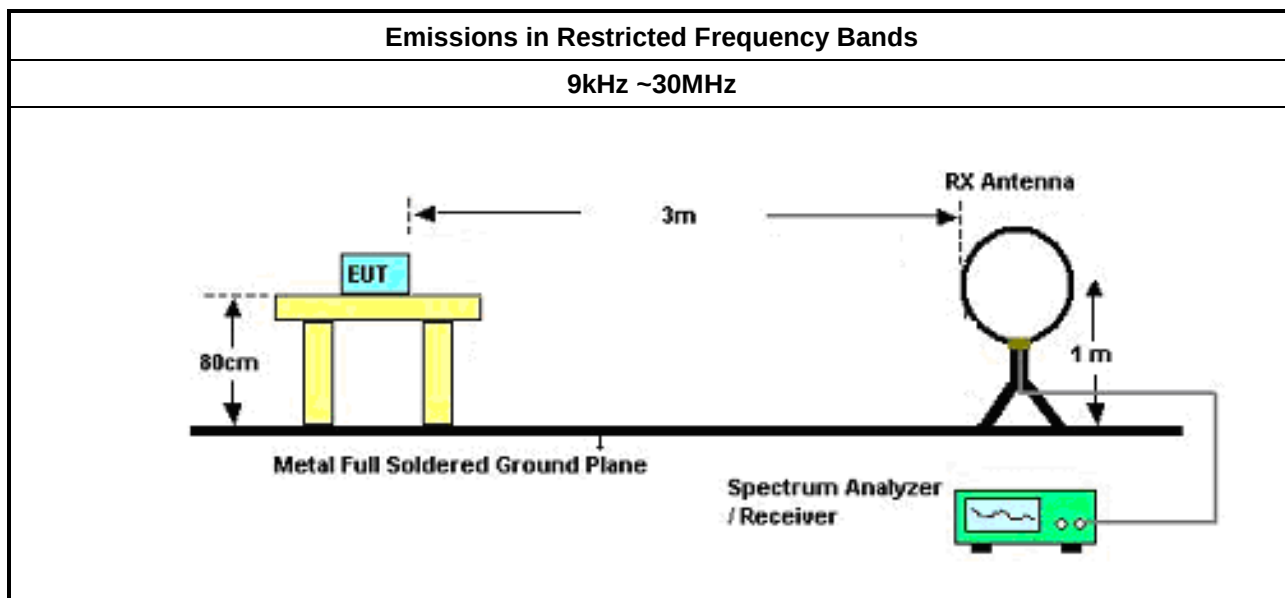
Test Method	
▪ The average emission levels shall be measured in [hopping duty factor]. ▪ Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. ▪ For the transmitter unwanted emissions shall 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.	

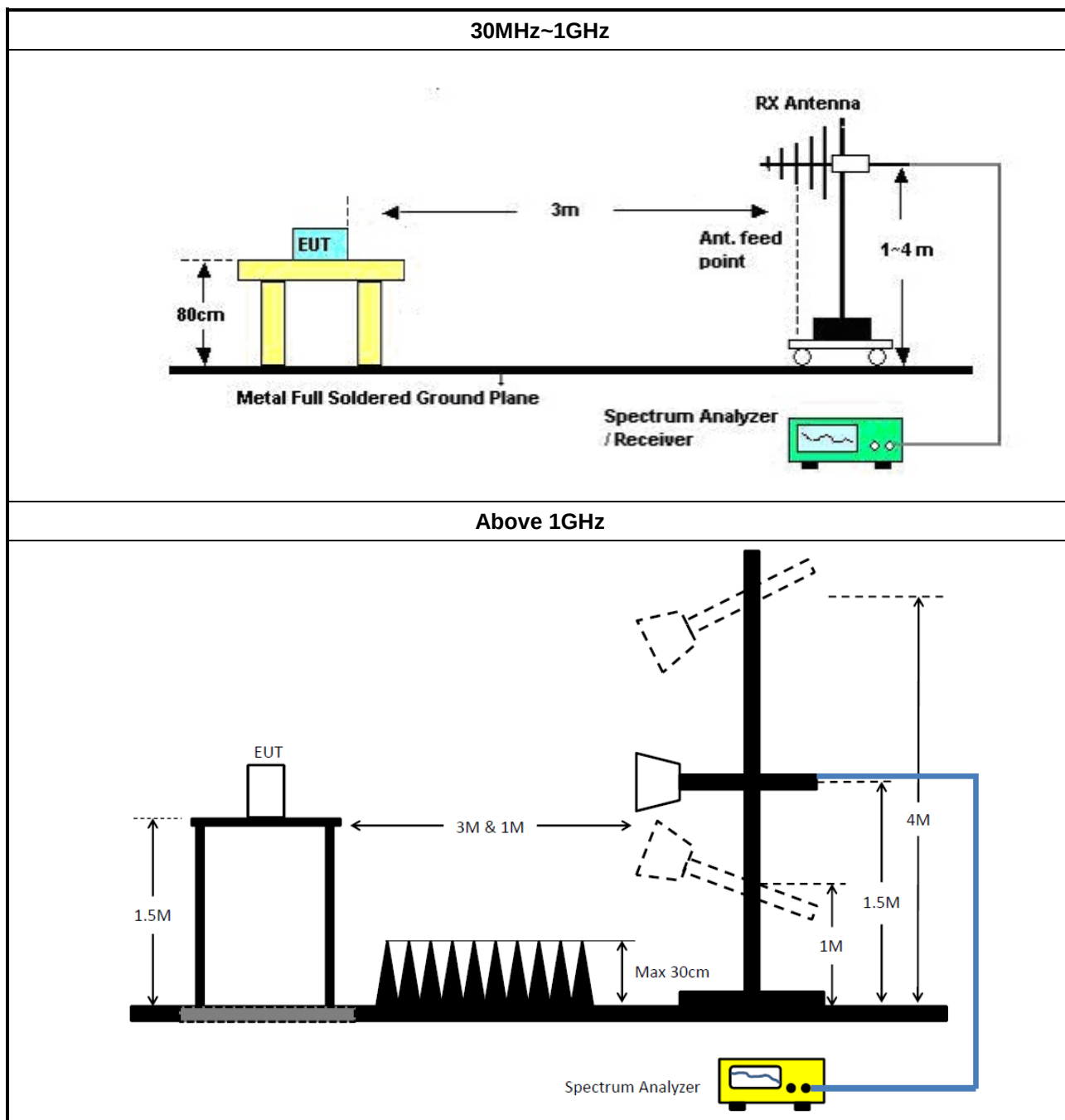
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp 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	100003	9kHz ~ 30MHz	18/Apr/2025	17/Apr/2026
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	V5.11.6	-	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	03CH26-HY	30MHz~1GHz 3m	07/Aug/2024	06/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/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	63540/002	30MHz~1GHz	04/Jun/2025	03/Jun/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	02/Jul/2025	01/Jul/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	21/Oct/2024	20/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	21/May/2025	20/May/2026
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	21/May/2025	20/May/2026
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-FS	Sporton	V5.11.24	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	FSV3044	101438	10Hz~44GHz	01/Nov/2024	31/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
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	V5.11.25	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

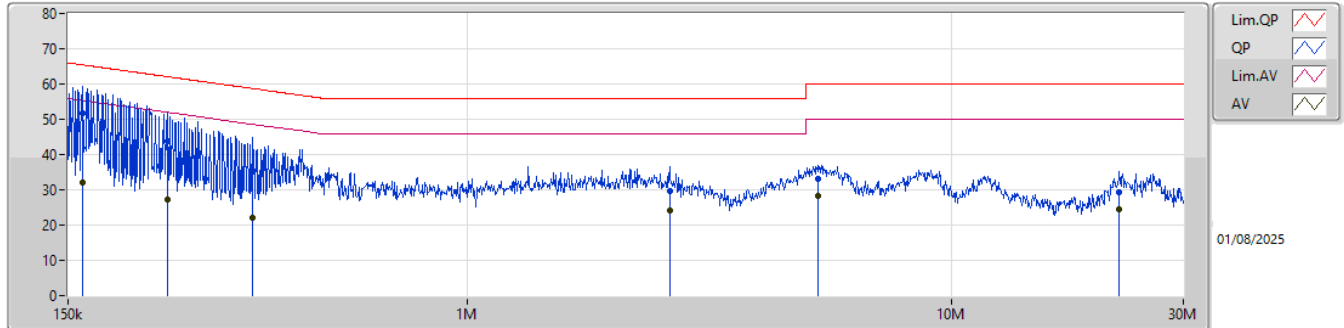
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.64k	52.97	65.81	-12.84	Neutral

Result

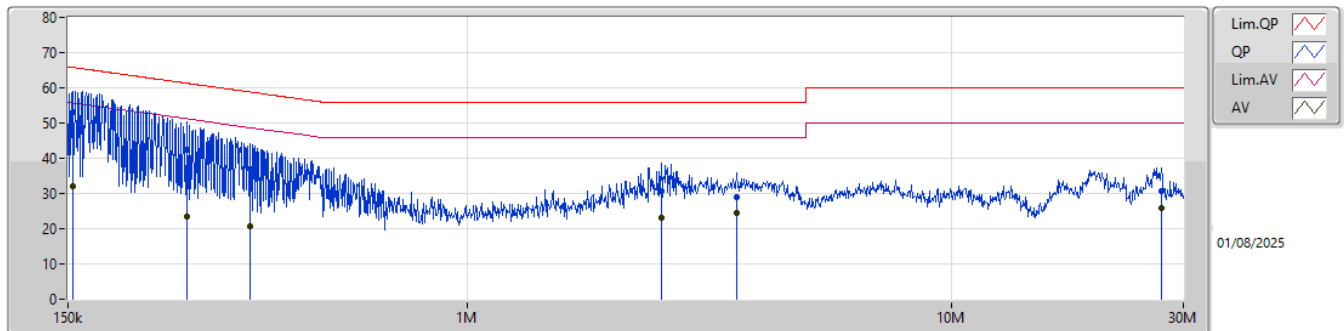
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	161.175k	51.69	65.41	-13.72	Line
Mode 1	Pass	AV	161.175k	32.23	55.41	-23.18	Line
Mode 1	Pass	QP	241.214k	43.89	62.06	-18.17	Line
Mode 1	Pass	AV	241.214k	27.13	52.06	-24.93	Line
Mode 1	Pass	QP	359.562k	35.44	58.73	-23.29	Line
Mode 1	Pass	AV	359.562k	22.10	48.73	-26.63	Line
Mode 1	Pass	QP	2.615M	29.60	56.00	-26.40	Line
Mode 1	Pass	AV	2.615M	24.04	46.00	-21.96	Line
Mode 1	Pass	QP	5.3M	33.04	60.00	-26.96	Line
Mode 1	Pass	AV	5.3M	28.21	50.00	-21.79	Line
Mode 1	Pass	QP	22.129M	29.22	60.00	-30.78	Line
Mode 1	Pass	AV	22.129M	24.62	50.00	-25.38	Line
Mode 1	Pass	QP	153.64k	52.97	65.81	-12.84	Neutral
Mode 1	Pass	AV	153.64k	32.23	55.81	-23.58	Neutral
Mode 1	Pass	QP	264.41k	42.57	61.30	-18.73	Neutral
Mode 1	Pass	AV	264.41k	23.42	51.30	-27.88	Neutral
Mode 1	Pass	QP	355.28k	36.86	58.83	-21.97	Neutral
Mode 1	Pass	AV	355.28k	20.73	48.83	-28.10	Neutral
Mode 1	Pass	QP	2.51M	30.54	56.00	-25.46	Neutral
Mode 1	Pass	AV	2.51M	23.20	46.00	-22.80	Neutral
Mode 1	Pass	QP	3.6M	28.95	56.00	-27.05	Neutral
Mode 1	Pass	AV	3.6M	24.41	46.00	-21.59	Neutral
Mode 1	Pass	QP	27.02M	30.84	60.00	-29.16	Neutral
Mode 1	Pass	AV	27.02M	25.76	50.00	-24.24	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	161.175k	51.69	65.41	-13.72	19.61	Line	-	32.08	9.63	0.01	9.97								
AV	161.175k	32.23	55.41	-23.18	19.61	Line	-	12.62	9.63	0.01	9.97								
QP	241.214k	43.89	62.06	-18.17	19.62	Line	-	24.27	9.63	0.02	9.97								
AV	241.214k	27.13	52.06	-24.93	19.62	Line	-	7.51	9.63	0.02	9.97								
QP	359.562k	35.44	58.73	-23.29	19.64	Line	-	15.80	9.63	0.03	9.98								
AV	359.562k	22.10	48.73	-26.63	19.64	Line	-	2.46	9.63	0.03	9.98								
QP	2.615M	29.60	56.00	-26.40	19.67	Line	-	9.93	9.66	0.04	9.97								
AV	2.615M	24.04	46.00	-21.96	19.67	Line	-	4.37	9.66	0.04	9.97								
QP	5.3M	33.04	60.00	-26.96	19.79	Line	-	13.25	9.70	0.11	9.98								
AV	5.3M	28.21	50.00	-21.79	19.79	Line	-	8.42	9.70	0.11	9.98								
QP	22.129M	29.22	60.00	-30.78	20.07	Line	-	9.15	9.79	0.30	9.98								
AV	22.129M	24.62	50.00	-25.38	20.07	Line	-	4.55	9.79	0.30	9.98								

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	153.64k	52.97	65.81	-12.84	19.71	Neutral	-	33.26	9.73	0.01	9.97								
AV	153.64k	32.23	55.81	-23.58	19.71	Neutral	-	12.52	9.73	0.01	9.97								
QP	264.41k	42.57	61.30	-18.73	19.71	Neutral	-	22.86	9.72	0.02	9.97								
AV	264.41k	23.42	51.30	-27.88	19.71	Neutral	-	3.71	9.72	0.02	9.97								
QP	355.28k	36.86	58.83	-21.97	19.72	Neutral	-	17.14	9.71	0.03	9.98								
AV	355.28k	20.73	48.83	-28.10	19.72	Neutral	-	1.01	9.71	0.03	9.98								
QP	2.51M	30.54	56.00	-25.46	19.77	Neutral	-	10.77	9.76	0.04	9.97								
AV	2.51M	23.20	46.00	-22.80	19.77	Neutral	-	3.43	9.76	0.04	9.97								
QP	3.6M	28.95	56.00	-27.05	19.81	Neutral	-	9.14	9.78	0.05	9.98								
AV	3.6M	24.41	46.00	-21.59	19.81	Neutral	-	4.60	9.78	0.05	9.98								
QP	27.02M	30.84	60.00	-29.16	20.51	Neutral	-	10.33	10.19	0.35	9.97								
AV	27.02M	25.76	50.00	-24.24	20.51	Neutral	-	5.25	10.19	0.35	9.97								

**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)	935k	895.194k	895KF1D	915.75k	869.459k
BT-EDR(2Mbps)	1.386M	1.235M	1M24G1D	1.32M	1.231M
BT-EDR(3Mbps)	1.378M	1.236M	1M24G1D	1.342M	1.209M

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	935k	895.194k
2440MHz	Pass	Inf	918.5k	883.168k
2480MHz	Pass	Inf	915.75k	869.459k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.32M	1.232M
2440MHz	Pass	Inf	1.328M	1.235M
2480MHz	Pass	Inf	1.386M	1.231M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.342M	1.224M
2440MHz	Pass	Inf	1.378M	1.209M
2480MHz	Pass	Inf	1.342M	1.236M

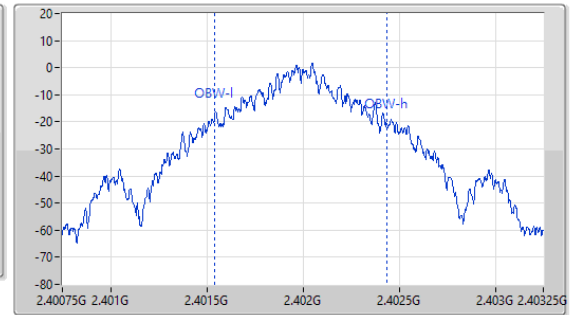
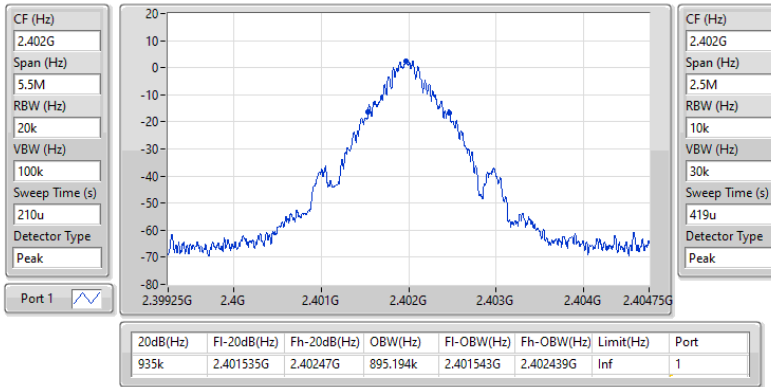
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-BR(1Mbps)

EBW-FS

2402MHz

28/07/2025

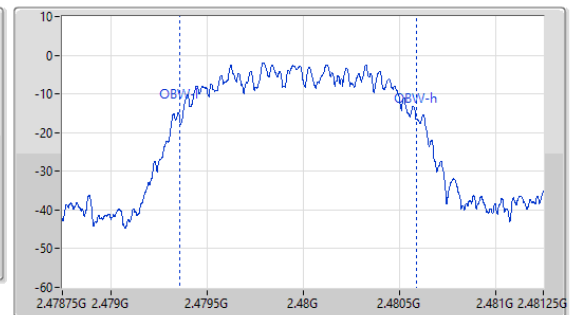
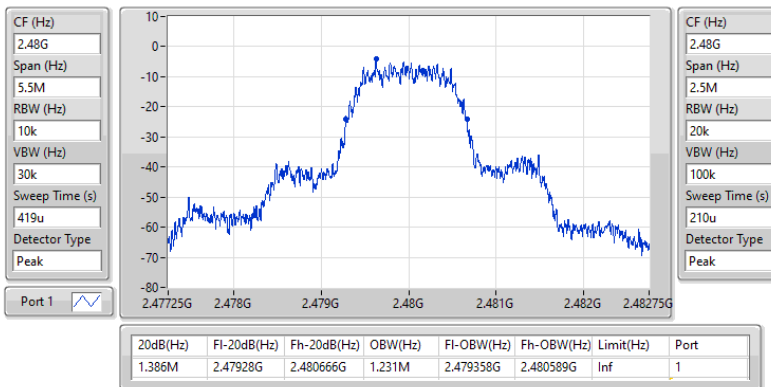


2.4-2.4835GHz_BT-EDR(2Mbps)

EBW-FS

2480MHz

28/07/2025

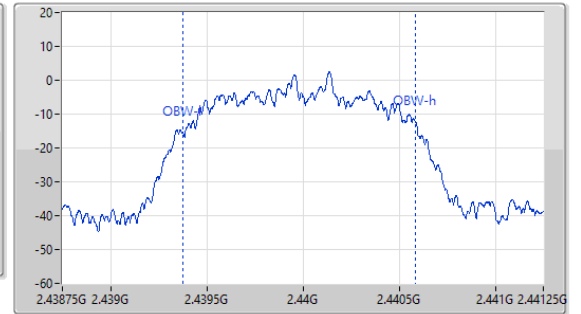
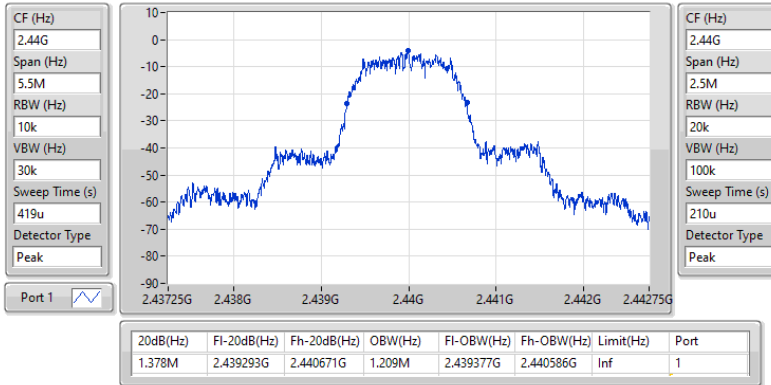


2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2440MHz

28/07/2025





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	997.5k
BT-EDR(2Mbps)	1.0005M	999k
BT-EDR(3Mbps)	1.0005M	997.5k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402145G	2.403145G	1.0005M	622.71k
2440MHz	Pass	2.44014G	2.441138G	997.5k	611.721k
2480MHz	Pass	2.479131G	2.480132G	1.0005M	609.8895k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402149G	2.403148G	999k	879.12k
2440MHz	Pass	2.440143G	2.441144G	1.0005M	884.448k
2480MHz	Pass	2.479137G	2.480138G	1.0005M	923.076k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402146G	2.403144G	997.5k	893.772k
2440MHz	Pass	2.440136G	2.441136G	1.0005M	917.748k
2480MHz	Pass	2.479128G	2.480129G	1.0005M	893.772k

2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

28/07/2025

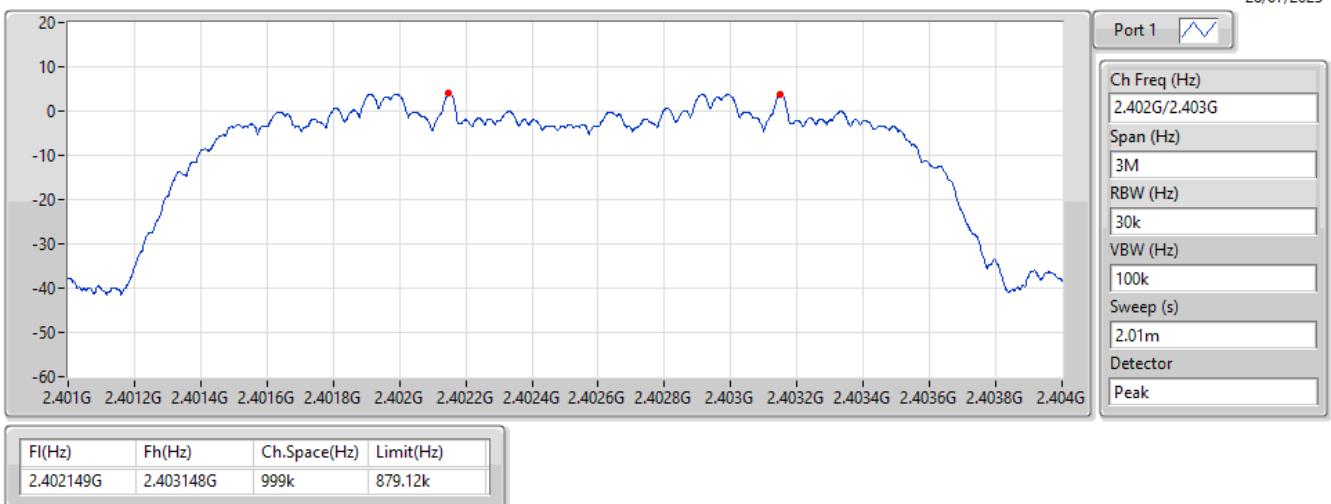


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.402G/2.403GHz

28/07/2025

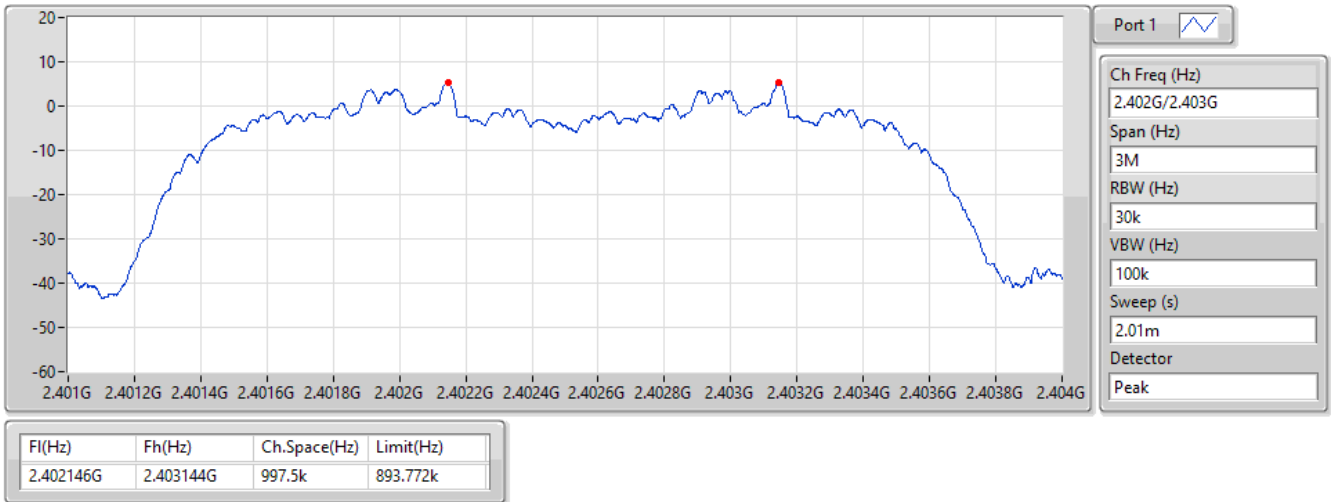


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

28/07/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	8.02	0.00634
BT-EDR(2Mbps)	9.12	0.00817
BT-EDR(3Mbps)	9.23	0.00838

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.98	8.02	21.00
2440MHz	Pass	2.98	7.69	21.00
2480MHz	Pass	2.98	7.47	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.98	9.12	21.00
2440MHz	Pass	2.98	9.05	21.00
2480MHz	Pass	2.98	8.46	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.98	9.23	21.00
2440MHz	Pass	2.98	9.10	21.00
2480MHz	Pass	2.98	8.40	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)	7.53	0.00566
BT-EDR(2Mbps)	6.89	0.00489
BT-EDR(3Mbps)	6.76	0.00474

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.98	7.53	21.00
2440MHz	Pass	2.98	7.23	21.00
2480MHz	Pass	2.98	7.07	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.98	6.73	21.00
2440MHz	Pass	2.98	6.89	21.00
2480MHz	Pass	2.98	6.44	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.98	6.65	21.00
2440MHz	Pass	2.98	6.76	21.00
2480MHz	Pass	2.98	6.23	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

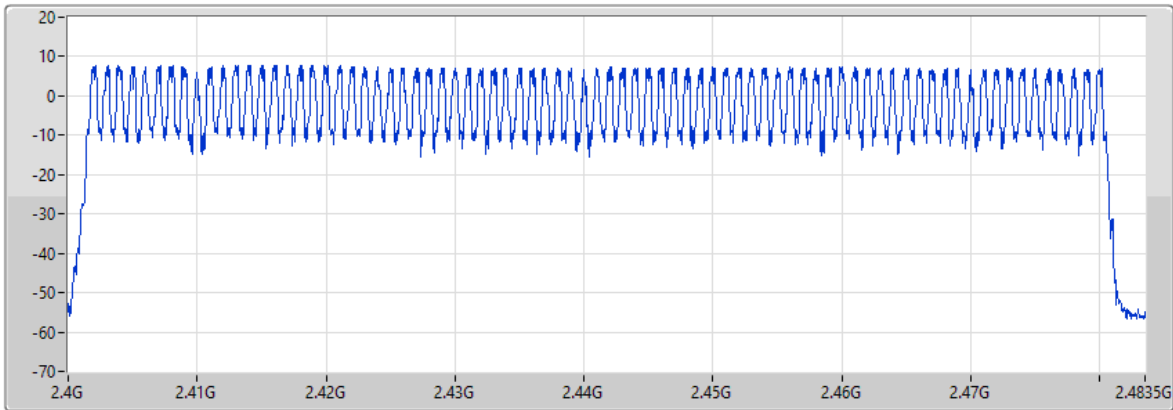
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

2.4-2.4835GHz_BT-BR(1Mbps)

Hopping-FS

2440MHz

28/07/2025



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
83.7us

Detector
Peak

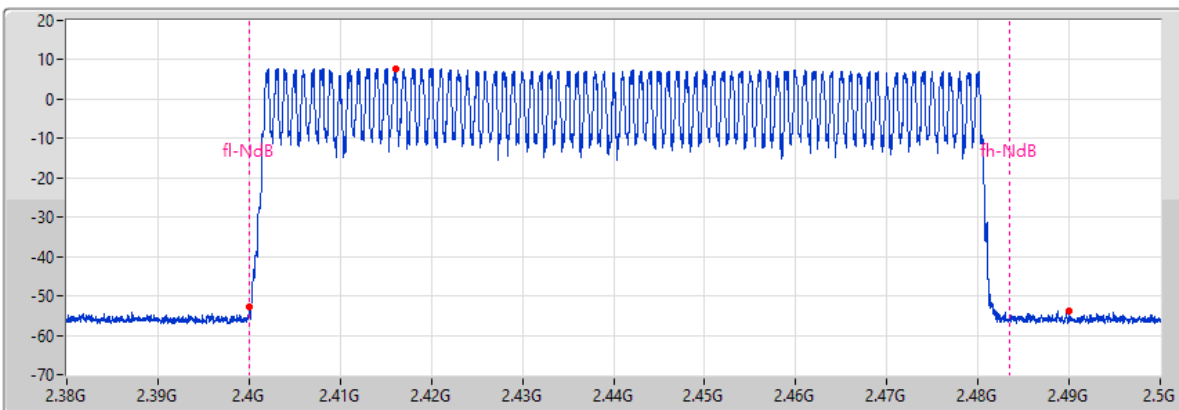
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

28/07/2025



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
83.7u

Detector
Peak

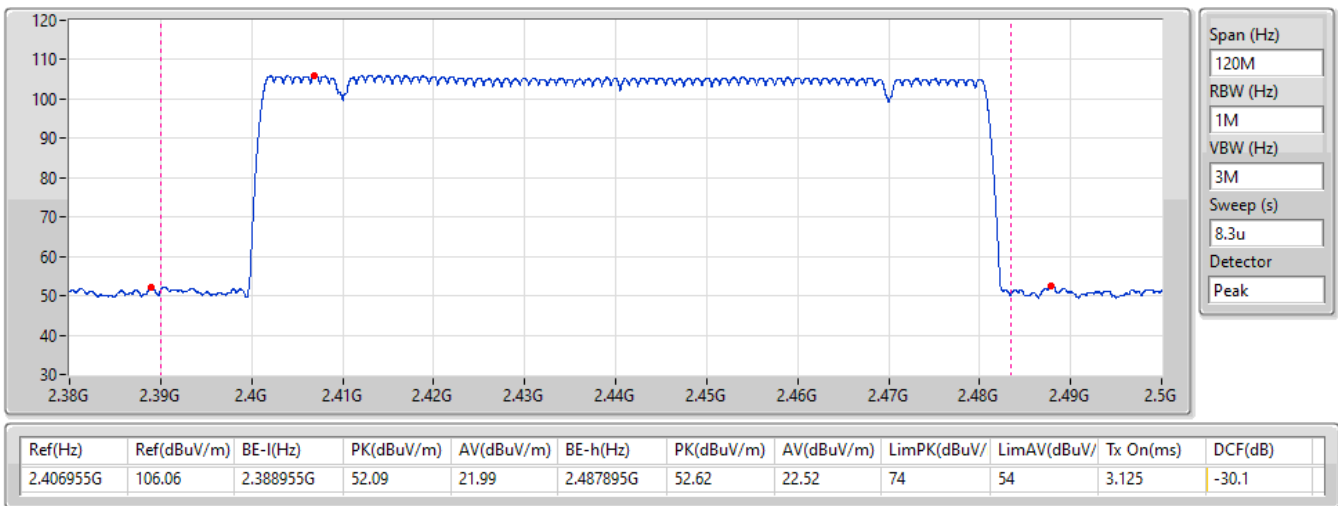
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-12.19	2.416135G	7.81	2.399995G	-52.78	2.49001G	-53.87

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

28/07/2025

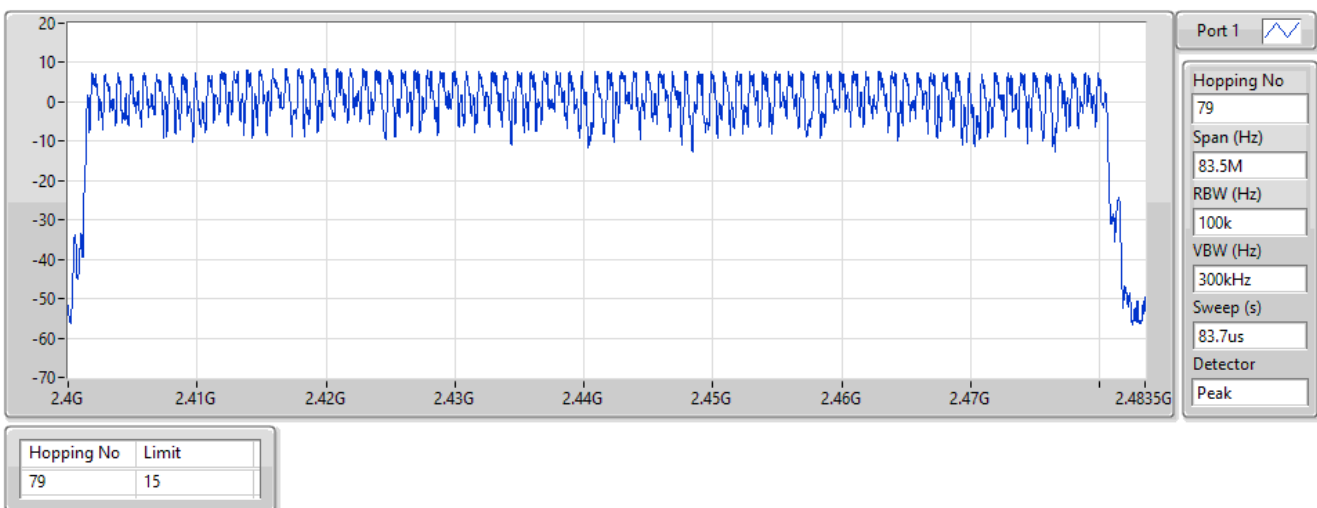


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping-FS

28/07/2025

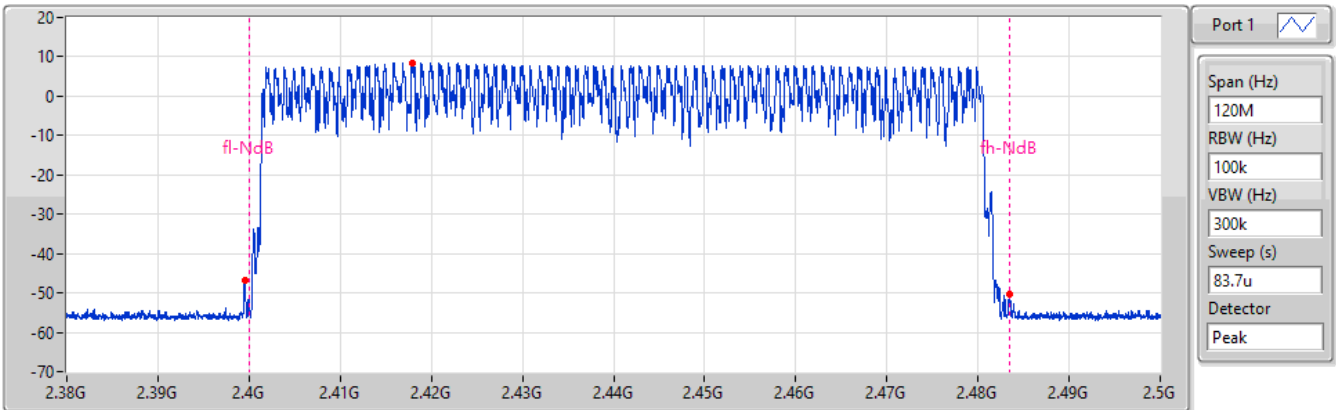


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

28/07/2025



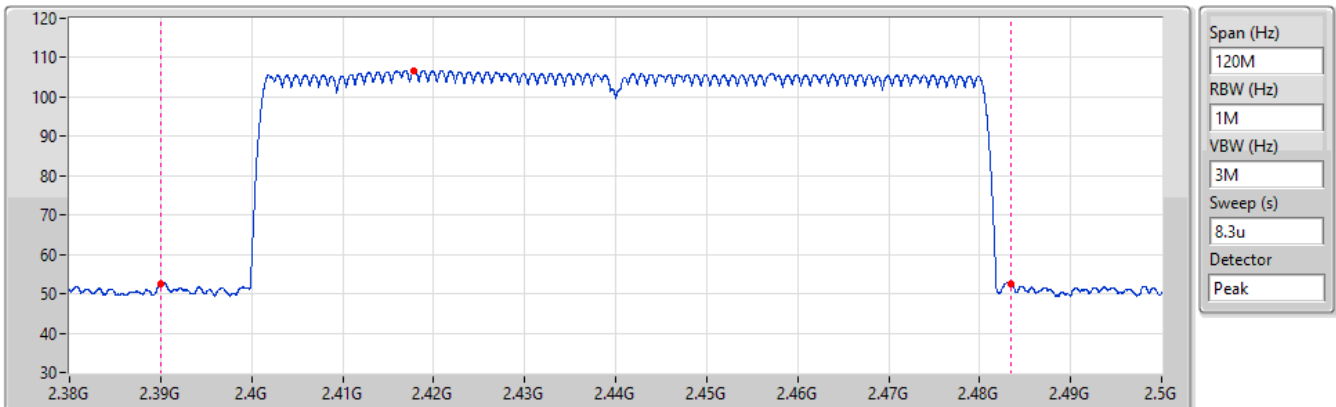
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-11.53	2.417875G	8.47	2.399515G	-46.69	2.483515G	-50.44

2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

28/07/2025



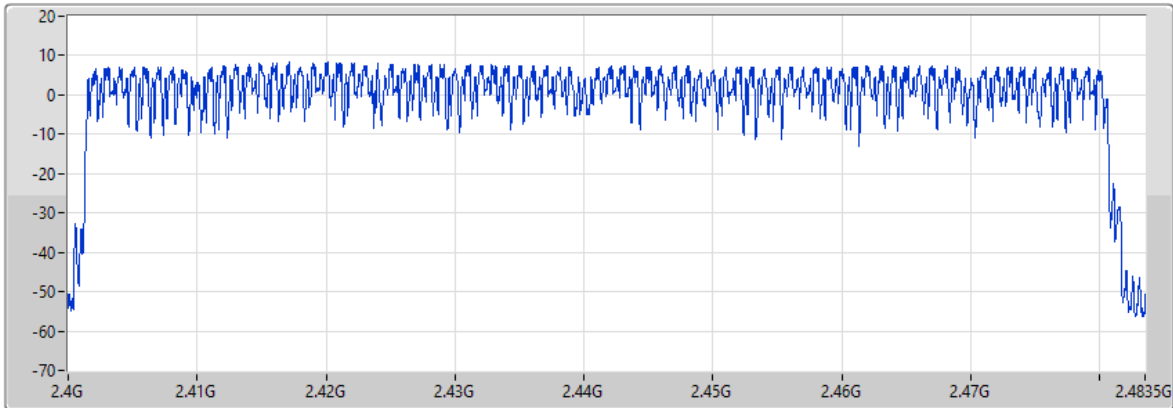
Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.417875G	106.72	2.38999G	52.67	22.57	2.483515G	52.47	22.37	74	54	3.125	-30.1

2.4-2.4835GHz_BT-EDR(3Mbps)

Hopping-FS

2440MHz

28/07/2025



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
83.7us

Detector
Peak

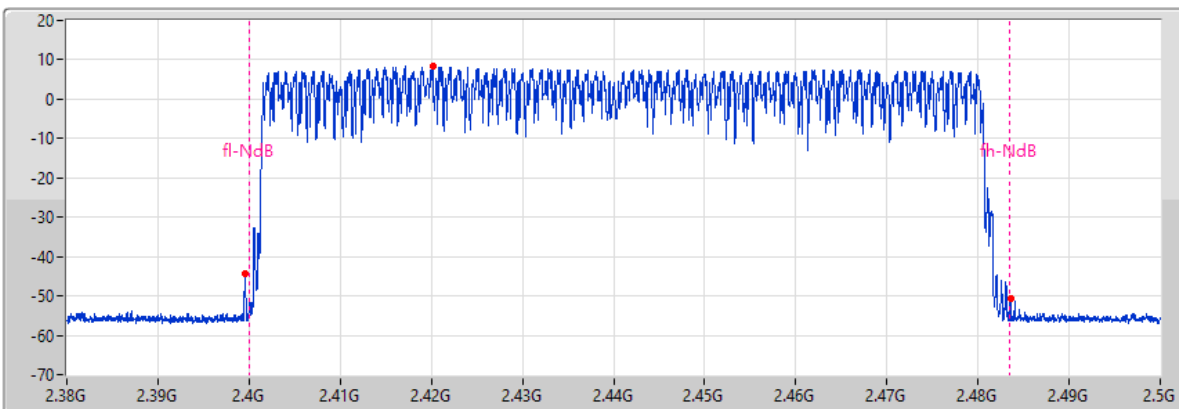
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

28/07/2025



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
83.7u

Detector
Peak

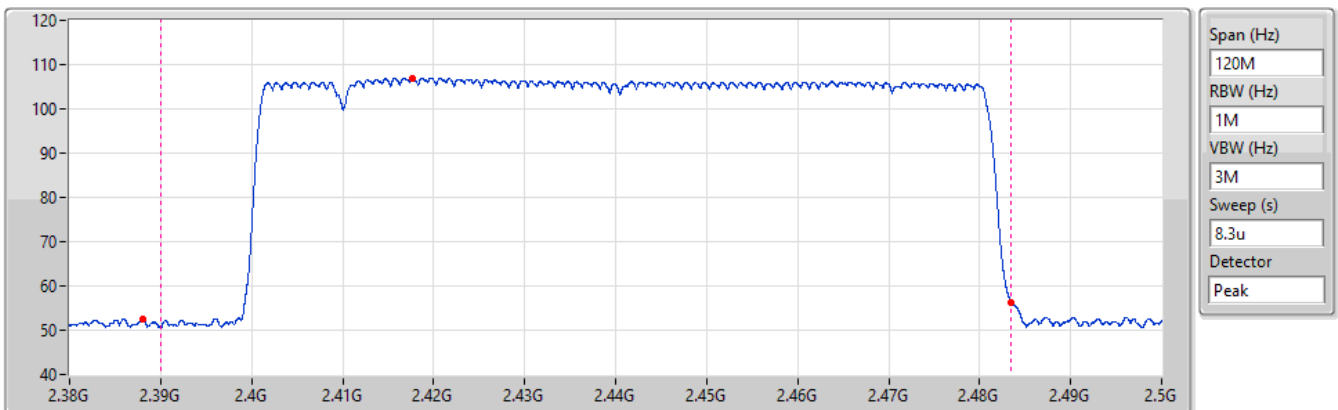
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-11.75	2.420155G	8.25	2.39956G	-44.37	2.48356G	-50.58

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

28/07/2025



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)
2.41771G	106.96	2.388025G	52.43	22.33	2.483515G	56.34	26.24	74	54	3.125	-30.1



Summary

2.4-2.4835GHz	-
BT-BR(1Mbps)	308.1273m_DH5
BT-EDR(2Mbps)	308.6603m_DH5
BT-EDR(3Mbps)	308.8735m_DH5

Result

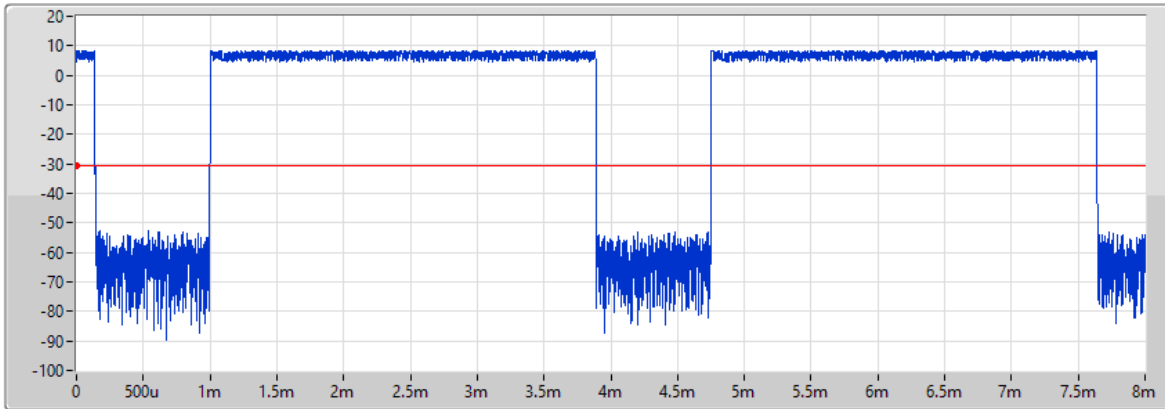
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.1273m_DH5	400m	2.8905m
2440MHz	Pass	8	154.076975m_DH5-AFH	400m	2.89075m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.6603m_DH5	400m	2.8955m
2440MHz	Pass	8	154.33015m_DH5-AFH	400m	2.8955m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.8735m_DH5	400m	2.8975m
2440MHz	Pass	8	135.235425m_DH5-AFH	400m	2.53725m

2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

28/07/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.8905m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.1273m_DH5	400m	2.8905m

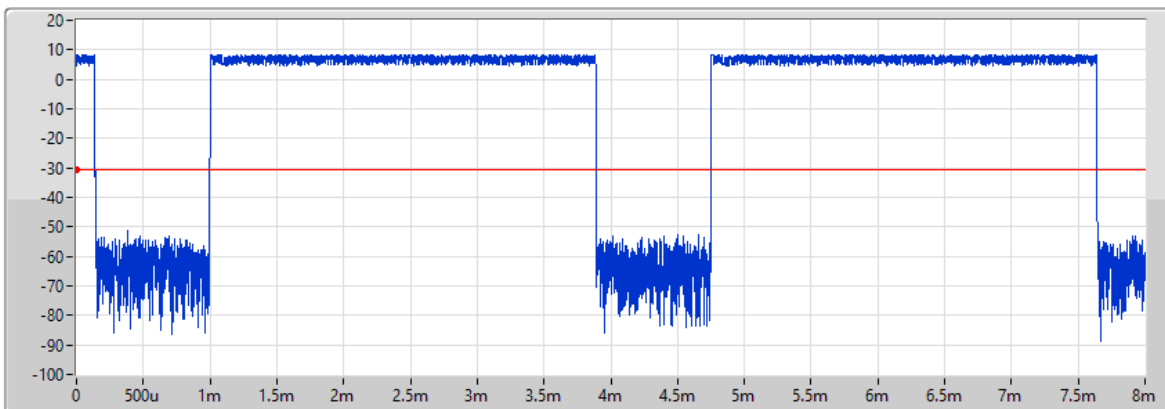
DH5

2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

28/07/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.89075m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.076975m_DH5-AFI	400m	2.89075m

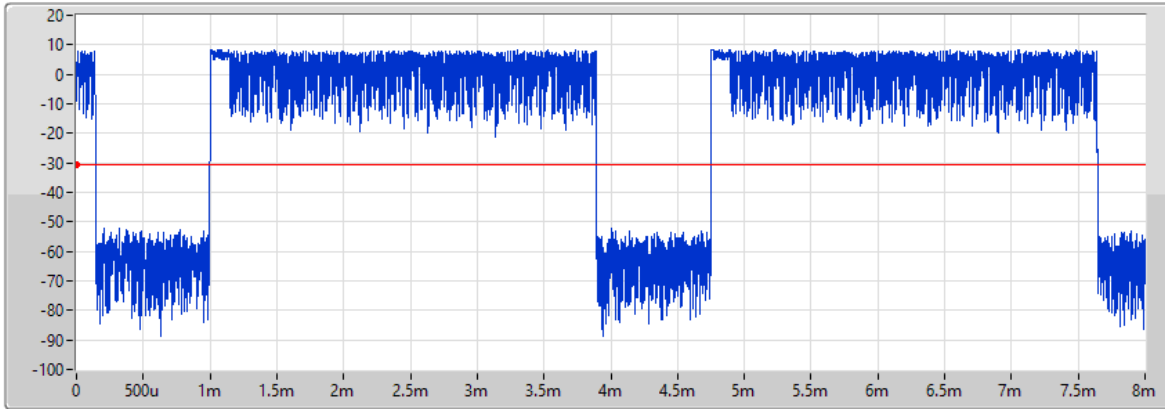
DH5-AFH

2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

28/07/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.8955m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.6603m_DH5	400m	2.8955m

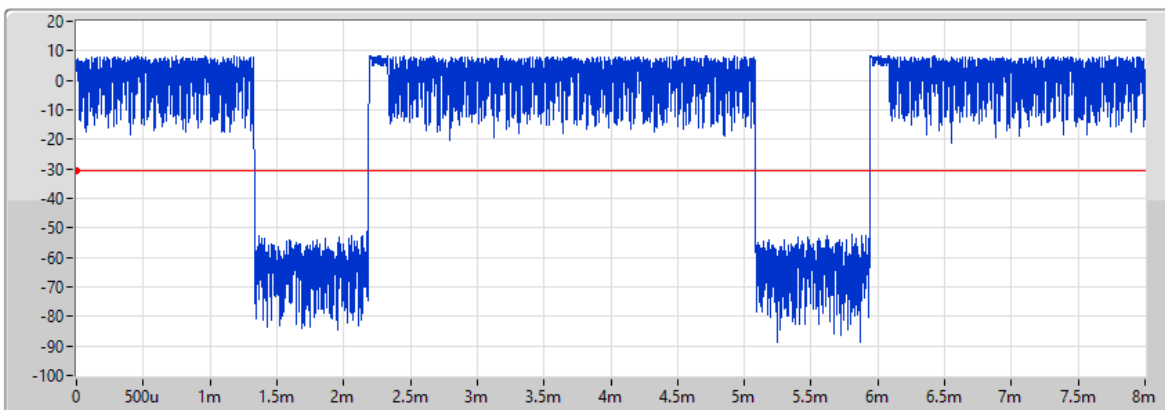
DH5

2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

28/07/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.8955m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.33015m_DH5-AFH	400m	2.8955m

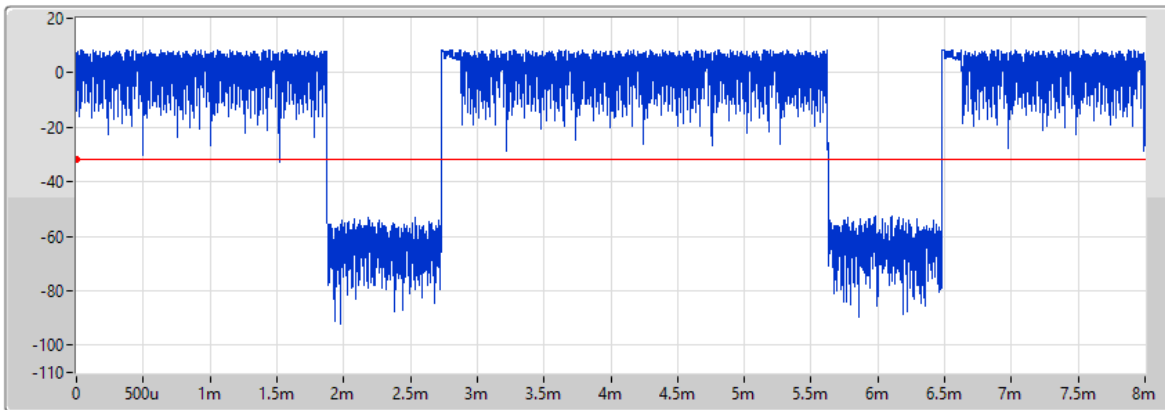
DH5-AFH

2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

28/07/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.8975m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.8735m_DH5	400m	2.8975m

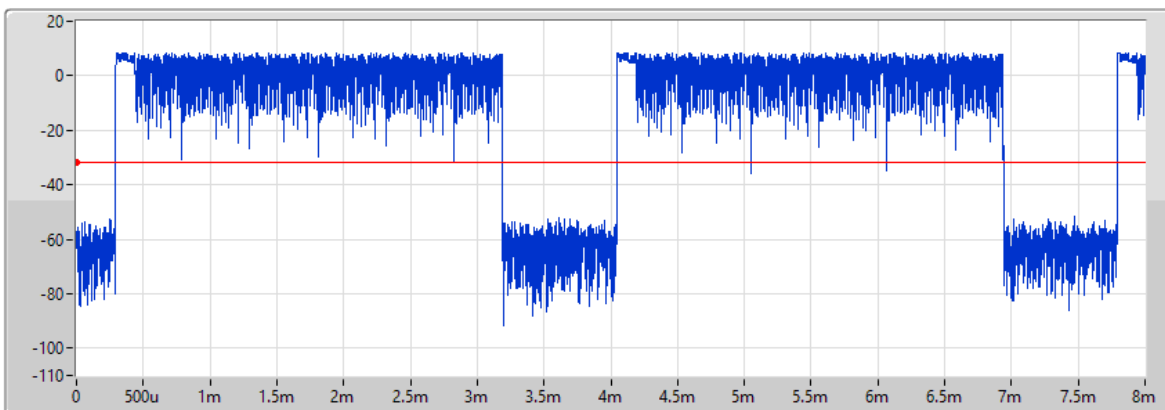
DH5

2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

28/07/2025



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.53725m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	135.235425m_DH5-AFI	400m	2.53725m

DH5-AFH

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	2.40184G	7.67	-12.33	1.77135G	-54.77	2.39996G	-51.05	2.4G	-49.79	2.50114G	-55.18	21.94048G	-42.92	1
BT-EDR(2Mbps)	Pass	2.44008G	6.37	-13.63	2.09565G	-54.66	2.39964G	-45.36	2.4G	-47.61	2.5003G	-54.14	21.59178G	-44.12	1
BT-EDR(3Mbps)	Pass	2.43991G	5.94	-14.06	1.84538G	-54.71	2.39952G	-46.43	2.4G	-48.18	2.50178G	-54.95	21.78862G	-44.40	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	2.40184G	7.67	-12.33	1.77135G	-54.77	2.39996G	-51.05	2.4G	-49.79	2.50114G	-55.18	21.94048G	-42.92	1
2440MHz	Pass	2.40184G	7.67	-12.33	2.16968G	-54.01	2.39116G	-55.02	2.4G	-57.15	2.5023G	-54.52	21.90673G	-44.41	1
2480MHz	Pass	2.40184G	7.67	-12.33	2.30245G	-53.39	2.3992G	-54.93	2.4G	-57.35	2.5035G	-54.87	21.58897G	-44.19	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44008G	6.37	-13.63	2.09565G	-54.66	2.39964G	-45.36	2.4G	-47.61	2.5003G	-54.14	21.59178G	-44.12	1
2440MHz	Pass	2.44008G	6.37	-13.63	1.863G	-54.69	2.39592G	-54.96	2.4G	-57.27	2.50006G	-55.42	21.60022G	-43.82	1
2480MHz	Pass	2.44008G	6.37	-13.63	1.97698G	-53.45	2.39504G	-54.82	2.4G	-56.88	2.50102G	-54.90	21.61709G	-43.83	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	5.94	-14.06	1.84538G	-54.71	2.39952G	-46.43	2.4G	-48.18	2.50178G	-54.95	21.78862G	-44.40	1
2440MHz	Pass	2.43991G	5.94	-14.06	2.17555G	-54.22	2.39744G	-54.76	2.4G	-56.94	2.50058G	-55.85	21.44555G	-43.69	1
2480MHz	Pass	2.43991G	5.94	-14.06	1.8254G	-54.32	2.3972G	-54.87	2.4G	-56.84	2.50022G	-55.50	21.52148G	-42.96	1

2.4-2.4835GHz_BT-BR(1Mbps)

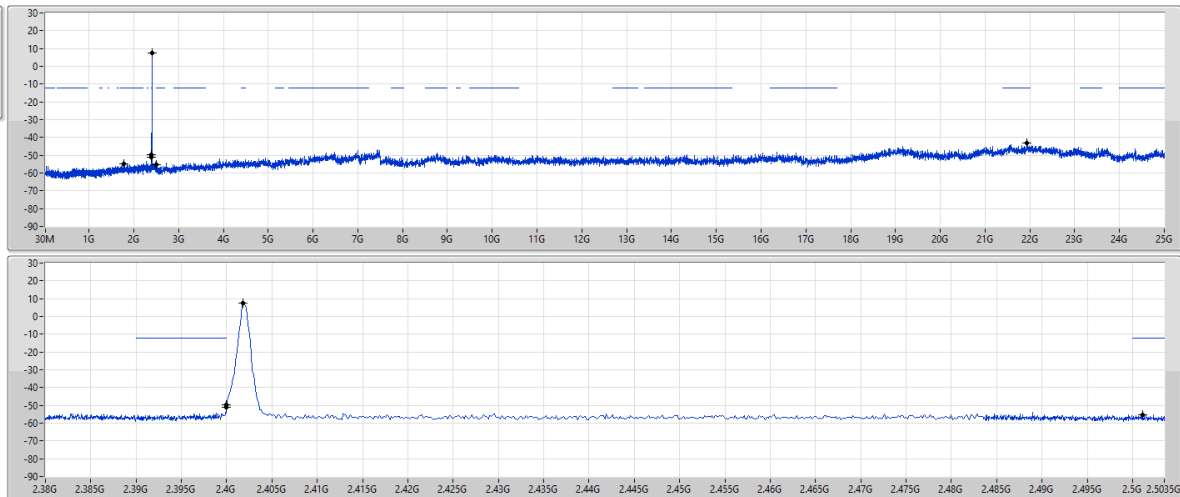
CSENbB-FS

2402MHz

28/07/2025

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
2.40184G	7.67	-12.33	1.77135G	-54.77	2.39996G	-51.05	2.4G	-49.79	2.50114G	-55.18	21.94048G	-42.92	1

2.4-2.4835GHz_BT-EDR(2Mbps)

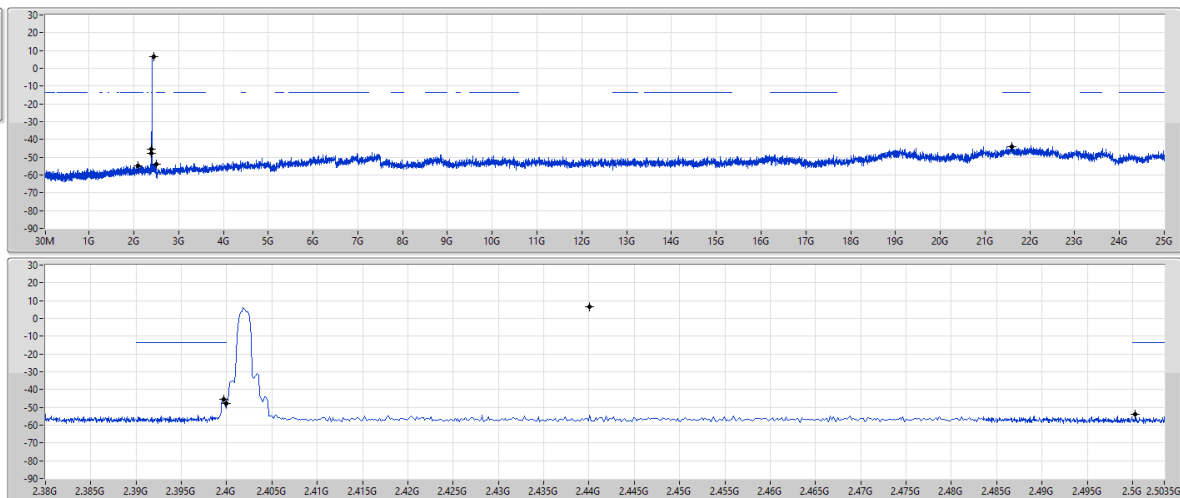
CSENbB-FS

2402MHz

28/07/2025

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

Port 1



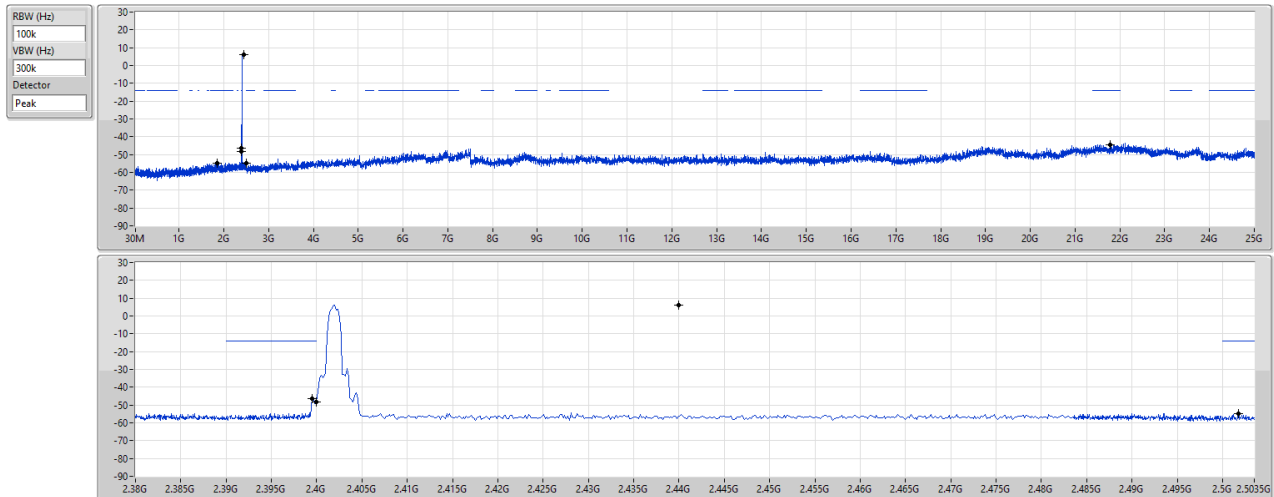
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44008G	6.37	-13.63	2.09565G	-54.66	2.39964G	-45.36	2.4G	-47.61	2.5003G	-54.14	21.59178G	-44.12	1

2.4-2.4835GHz_BT-EDR(3Mbps)

CSEndB-FS

2402MHz

28/07/2025





Summary

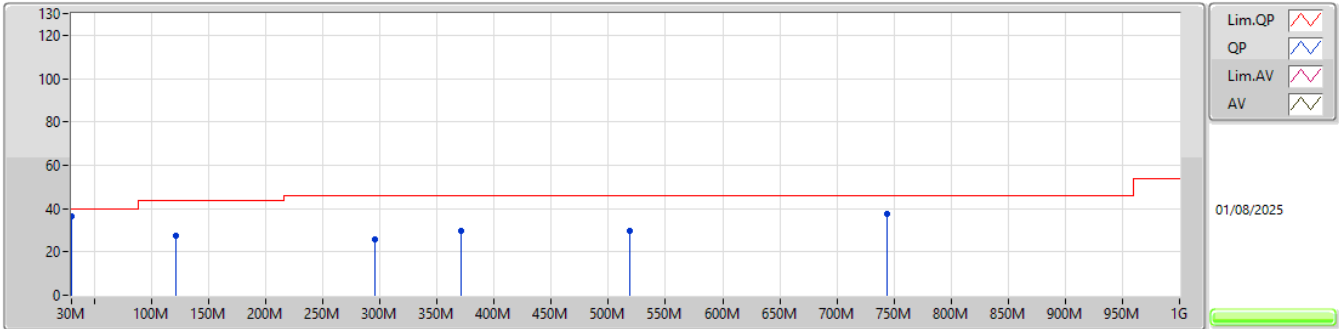
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-EDR(3Mbps)	Pass	PK	30M	36.64	40.00	-3.36	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_PoE	Pass	PK	30M	36.64	40.00	-3.36	3	Vertical	0	1.00
2440MHz_PoE	Pass	PK	121.18M	27.31	43.50	-16.19	3	Vertical	0	1.00
2440MHz_PoE	Pass	PK	295.78M	25.78	46.00	-20.22	3	Vertical	0	1.00
2440MHz_PoE	Pass	PK	371.44M	29.79	46.00	-16.21	3	Vertical	0	1.00
2440MHz_PoE	Pass	PK	518.88M	29.42	46.00	-16.58	3	Vertical	0	1.00
2440MHz_PoE	Pass	PK	743.92M	37.57	46.00	-8.43	3	Vertical	0	1.00
2440MHz_PoE	Pass	PK	30M	30.53	40.00	-9.47	3	Horizontal	360	1.00
2440MHz_PoE	Pass	PK	272.5M	31.90	46.00	-14.10	3	Horizontal	360	1.00
2440MHz_PoE	Pass	PK	371.44M	32.75	46.00	-13.25	3	Horizontal	360	1.00
2440MHz_PoE	Pass	PK	625.58M	36.01	46.00	-9.99	3	Horizontal	360	1.00
2440MHz_PoE	Pass	PK	743.92M	39.35	46.00	-6.65	3	Horizontal	360	1.00
2440MHz_PoE	Pass	PK	817.64M	41.29	46.00	-4.71	3	Horizontal	360	1.00

2.4-2.4835GHz_BT-EDR(3Mbps)

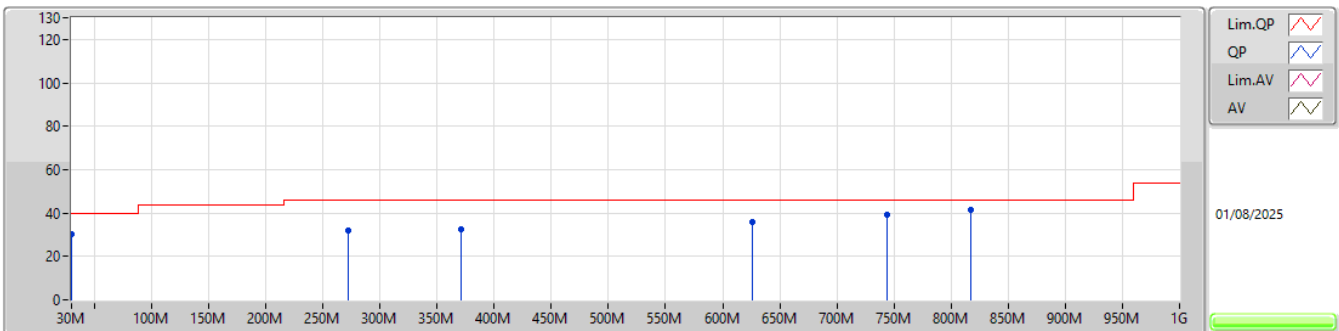
2440MHz_PoE



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)
PK	30M	36.64	40.00	-3.36	-19.80	3	Vertical	0	1.00	56.44	23.79	0.78	44.37
PK	121.18M	27.31	43.50	-16.19	-25.33	3	Vertical	0	1.00	52.64	17.96	1.28	44.57
PK	295.78M	25.78	46.00	-20.22	-22.62	3	Vertical	0	1.00	48.40	19.63	1.98	44.23
PK	371.44M	29.79	46.00	-16.21	-20.77	3	Vertical	0	1.00	50.56	21.14	2.23	44.14
PK	518.88M	29.42	46.00	-16.58	-16.87	3	Vertical	0	1.00	46.29	24.40	2.67	43.94
PK	743.92M	37.57	46.00	-8.43	-11.91	3	Vertical	0	1.00	49.48	28.67	3.12	43.70

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_PoE



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)
PK	30M	30.53	40.00	-9.47	-19.80	3	Horizontal	360	1.00	50.33	23.79	0.78	44.37
PK	272.5M	31.90	46.00	-14.10	-23.26	3	Horizontal	360	1.00	55.16	19.13	1.90	44.29
PK	371.44M	32.75	46.00	-13.25	-20.77	3	Horizontal	360	1.00	53.52	21.14	2.23	44.14
PK	625.58M	36.01	46.00	-9.99	-14.32	3	Horizontal	360	1.00	50.33	26.69	2.84	43.85
PK	743.92M	39.35	46.00	-6.65	-11.91	3	Horizontal	360	1.00	51.26	28.67	3.12	43.70
PK	817.64M	41.29	46.00	-4.71	-12.09	3	Horizontal	360	1.00	53.38	28.30	3.29	43.68



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	2.3776G	59.15	74.00	-14.85	3	Horizontal	12	2.64
BT-EDR(3Mbps)	Pass	PK	2.4996G	59.42	74.00	-14.58	3	Vertical	315	1.01

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	2.3836G	35.96	54.00	-18.04	3	Vertical	323	1.50
2402MHz	Pass	AV	2.4018G	79.38	Inf	-Inf	3	Vertical	323	1.50
2402MHz	Pass	PK	2.3836G	58.46	74.00	-15.54	3	Vertical	323	1.50
2402MHz	Pass	PK	2.4018G	101.88	Inf	-Inf	3	Vertical	323	1.50
2402MHz	Pass	AV	2.3578G	36.03	54.00	-17.97	3	Horizontal	305	2.59
2402MHz	Pass	AV	2.4022G	80.84	Inf	-Inf	3	Horizontal	305	2.59
2402MHz	Pass	PK	2.3578G	58.53	74.00	-15.47	3	Horizontal	305	2.59
2402MHz	Pass	PK	2.4022G	103.34	Inf	-Inf	3	Horizontal	305	2.59
2402MHz	Pass	AV	4.8018G	21.42	54.00	-32.58	3	Vertical	19	2.44
2402MHz	Pass	PK	4.8018G	43.92	74.00	-30.08	3	Vertical	19	2.44
2402MHz	Pass	AV	4.80633G	22.05	54.00	-31.95	3	Horizontal	330	1.50
2402MHz	Pass	PK	4.80633G	44.55	74.00	-29.45	3	Horizontal	330	1.50
2440MHz	Pass	AV	2.3756G	36.30	54.00	-17.70	3	Vertical	311	1.12
2440MHz	Pass	AV	2.44G	79.16	Inf	-Inf	3	Vertical	311	1.12
2440MHz	Pass	AV	2.4908G	36.26	54.00	-17.74	3	Vertical	311	1.12
2440MHz	Pass	PK	2.3756G	58.80	74.00	-15.20	3	Vertical	311	1.12
2440MHz	Pass	PK	2.44G	101.66	Inf	-Inf	3	Vertical	311	1.12
2440MHz	Pass	PK	2.4908G	58.76	74.00	-15.24	3	Vertical	311	1.12
2440MHz	Pass	AV	2.3776G	36.65	54.00	-17.35	3	Horizontal	12	2.64
2440MHz	Pass	AV	2.44G	77.48	Inf	-Inf	3	Horizontal	12	2.64
2440MHz	Pass	AV	2.4896G	36.36	54.00	-17.64	3	Horizontal	12	2.64
2440MHz	Pass	PK	2.3776G	59.15	74.00	-14.85	3	Horizontal	12	2.64
2440MHz	Pass	PK	2.44G	99.98	Inf	-Inf	3	Horizontal	12	2.64
2440MHz	Pass	PK	2.4896G	58.86	74.00	-15.14	3	Horizontal	12	2.64
2440MHz	Pass	AV	4.87865G	21.96	54.00	-32.04	3	Vertical	206	1.04
2440MHz	Pass	PK	4.87865G	44.46	74.00	-29.54	3	Vertical	206	1.04
2440MHz	Pass	AV	4.88231G	21.89	54.00	-32.11	3	Horizontal	185	1.50
2440MHz	Pass	PK	4.88231G	44.39	74.00	-29.61	3	Horizontal	185	1.50
2480MHz	Pass	AV	2.4798G	77.18	Inf	-Inf	3	Vertical	315	1.01
2480MHz	Pass	AV	2.4886G	36.35	54.00	-17.65	3	Vertical	315	1.01
2480MHz	Pass	PK	2.4798G	99.68	Inf	-Inf	3	Vertical	315	1.01
2480MHz	Pass	PK	2.4886G	58.85	74.00	-15.15	3	Vertical	315	1.01
2480MHz	Pass	AV	2.4798G	75.43	Inf	-Inf	3	Horizontal	76	1.04
2480MHz	Pass	AV	2.496G	36.64	54.00	-17.36	3	Horizontal	76	1.04
2480MHz	Pass	PK	2.4798G	97.93	Inf	-Inf	3	Horizontal	76	1.04
2480MHz	Pass	PK	2.496G	59.14	74.00	-14.86	3	Horizontal	76	1.04
2480MHz	Pass	AV	4.96181G	22.41	54.00	-31.59	3	Vertical	16	2.70
2480MHz	Pass	PK	4.96181G	44.91	74.00	-29.09	3	Vertical	16	2.70
2480MHz	Pass	AV	4.96037G	22.47	54.00	-31.53	3	Horizontal	336	1.50
2480MHz	Pass	PK	4.96037G	44.97	74.00	-29.03	3	Horizontal	336	1.50
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.389G	36.65	54.00	-17.35	3	Vertical	324	1.50
2402MHz	Pass	AV	2.402G	78.63	Inf	-Inf	3	Vertical	324	1.50
2402MHz	Pass	PK	2.389G	59.15	74.00	-14.85	3	Vertical	324	1.50
2402MHz	Pass	PK	2.402G	101.13	Inf	-Inf	3	Vertical	324	1.50
2402MHz	Pass	AV	2.3748G	35.51	54.00	-18.49	3	Horizontal	360	1.68
2402MHz	Pass	AV	2.402G	78.25	Inf	-Inf	3	Horizontal	360	1.68
2402MHz	Pass	PK	2.3748G	58.01	74.00	-15.99	3	Horizontal	360	1.68
2402MHz	Pass	PK	2.402G	100.75	Inf	-Inf	3	Horizontal	360	1.68
2402MHz	Pass	AV	4.80161G	22.09	54.00	-31.91	3	Vertical	141	2.98
2402MHz	Pass	PK	4.80161G	44.59	74.00	-29.41	3	Vertical	141	2.98
2402MHz	Pass	AV	4.80337G	21.74	54.00	-32.26	3	Horizontal	56	1.50
2402MHz	Pass	PK	4.80337G	44.24	74.00	-29.76	3	Horizontal	56	1.50
2440MHz	Pass	AV	2.376G	35.95	54.00	-18.05	3	Vertical	316	1.36
2440MHz	Pass	AV	2.44G	79.57	Inf	-Inf	3	Vertical	316	1.36
2440MHz	Pass	AV	2.4856G	36.89	54.00	-17.11	3	Vertical	316	1.36
2440MHz	Pass	PK	2.376G	58.45	74.00	-15.55	3	Vertical	316	1.36
2440MHz	Pass	PK	2.44G	102.07	Inf	-Inf	3	Vertical	316	1.36
2440MHz	Pass	PK	2.4856G	59.39	74.00	-14.61	3	Vertical	316	1.36
2440MHz	Pass	AV	2.3672G	35.50	54.00	-18.50	3	Horizontal	15	1.43



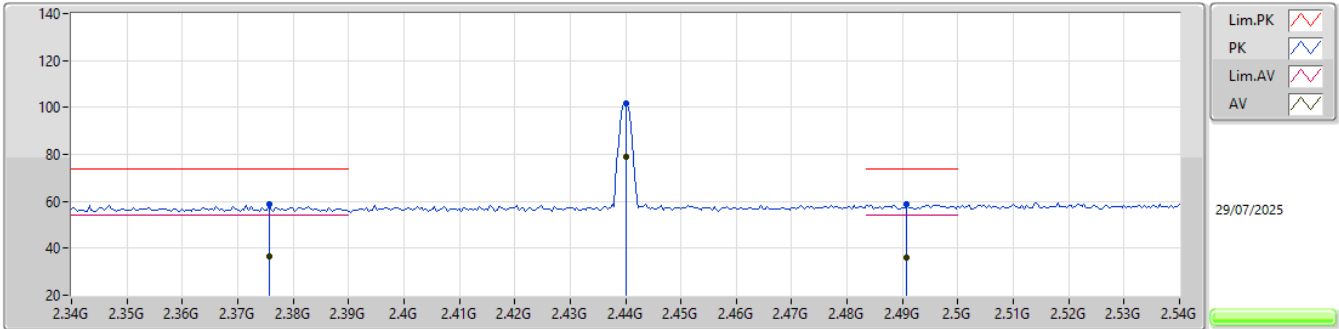
RSE TX above 1GHz

Appendix G.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	77.69	Inf	-Inf	3	Horizontal	15	1.43
2440MHz	Pass	AV	2.4928G	35.98	54.00	-18.02	3	Horizontal	15	1.43
2440MHz	Pass	PK	2.3672G	58.00	74.00	-16.00	3	Horizontal	15	1.43
2440MHz	Pass	PK	2.44G	100.19	Inf	-Inf	3	Horizontal	15	1.43
2440MHz	Pass	PK	2.4928G	58.48	74.00	-15.52	3	Horizontal	15	1.43
2440MHz	Pass	AV	4.87799G	22.01	54.00	-31.99	3	Vertical	28	2.23
2440MHz	Pass	PK	4.87799G	44.51	74.00	-29.49	3	Vertical	28	2.23
2440MHz	Pass	AV	4.87834G	21.67	54.00	-32.33	3	Horizontal	272	1.50
2440MHz	Pass	PK	4.87834G	44.17	74.00	-29.83	3	Horizontal	272	1.50
2480MHz	Pass	AV	2.48G	77.03	Inf	-Inf	3	Vertical	315	1.01
2480MHz	Pass	AV	2.4996G	36.92	54.00	-17.08	3	Vertical	315	1.01
2480MHz	Pass	PK	2.48G	99.53	Inf	-Inf	3	Vertical	315	1.01
2480MHz	Pass	PK	2.4996G	59.42	74.00	-14.58	3	Vertical	315	1.01
2480MHz	Pass	AV	2.48G	77.80	Inf	-Inf	3	Horizontal	304	2.82
2480MHz	Pass	AV	2.4984G	36.54	54.00	-17.46	3	Horizontal	304	2.82
2480MHz	Pass	PK	2.48G	100.30	Inf	-Inf	3	Horizontal	304	2.82
2480MHz	Pass	PK	2.4984G	59.04	74.00	-14.96	3	Horizontal	304	2.82
2480MHz	Pass	AV	4.96033G	22.54	54.00	-31.46	3	Vertical	89	1.50
2480MHz	Pass	PK	4.96033G	45.04	74.00	-28.96	3	Vertical	89	1.50
2480MHz	Pass	AV	4.96139G	22.23	54.00	-31.77	3	Horizontal	235	2.21
2480MHz	Pass	PK	4.96139G	44.73	74.00	-29.27	3	Horizontal	235	2.21

2.4-2.4835GHz_BT-BR(1Mbps)

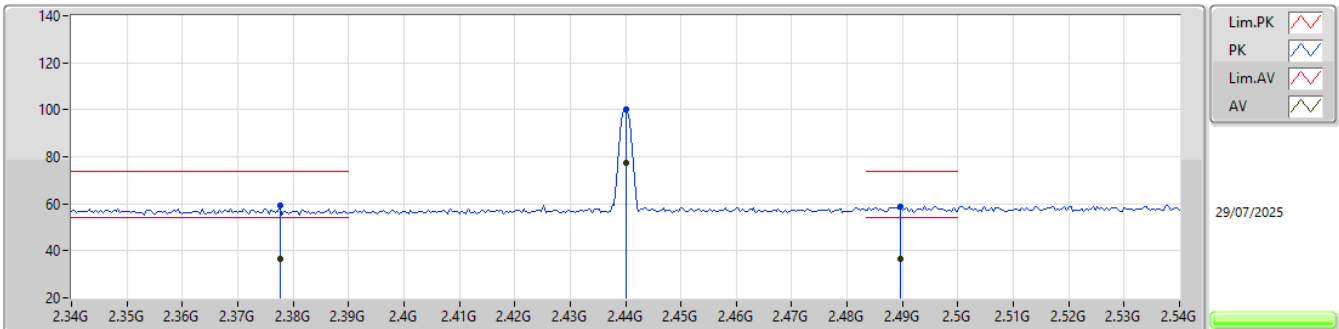
2440MHz_TX



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	2.3756G	36.30	54.00	-17.70	32.46	3	Vertical	311	1.12	3.84	27.20	5.26	-
AV	2.44G	79.16	Inf	-Inf	32.85	3	Vertical	311	1.12	46.31	27.50	5.35	-
AV	2.4908G	36.26	54.00	-17.74	33.35	3	Vertical	311	1.12	2.91	27.90	5.45	-
PK	2.3756G	58.80	74.00	-15.20	32.46	3	Vertical	311	1.12	26.34	27.20	5.26	-
PK	2.44G	101.66	Inf	-Inf	32.85	3	Vertical	311	1.12	68.81	27.50	5.35	-
PK	2.4908G	58.76	74.00	-15.24	33.35	3	Vertical	311	1.12	25.41	27.90	5.45	-

2.4-2.4835GHz_BT-BR(1Mbps)

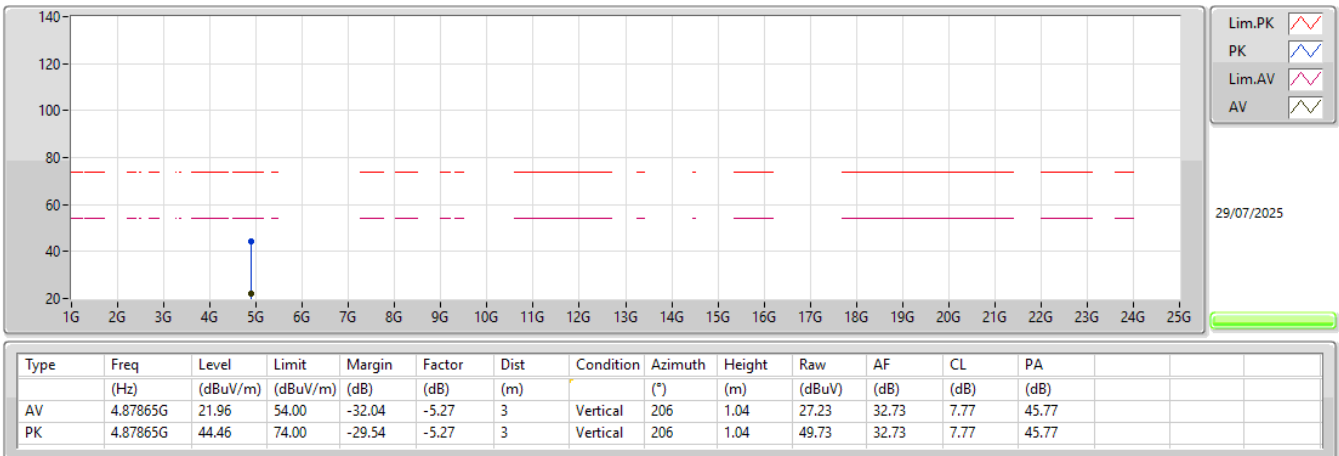
2440MHz_TX



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	2.3776G	36.65	54.00	-17.35	32.46	3	Horizontal	12	2.64	4.19	27.20	5.26	-
AV	2.44G	77.48	Inf	-Inf	32.85	3	Horizontal	12	2.64	44.63	27.50	5.35	-
AV	2.4896G	36.36	54.00	-17.64	33.34	3	Horizontal	12	2.64	3.02	27.89	5.45	-
PK	2.3776G	59.15	74.00	-14.85	32.46	3	Horizontal	12	2.64	26.69	27.20	5.26	-
PK	2.44G	99.98	Inf	-Inf	32.85	3	Horizontal	12	2.64	67.13	27.50	5.35	-
PK	2.4896G	58.86	74.00	-15.14	33.34	3	Horizontal	12	2.64	25.52	27.89	5.45	-

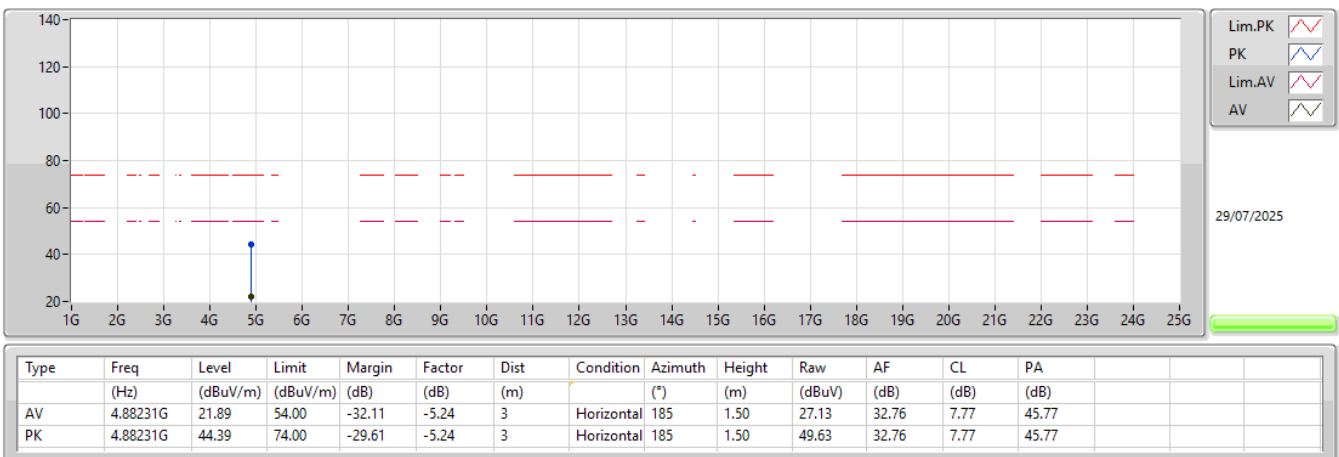
2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_TX



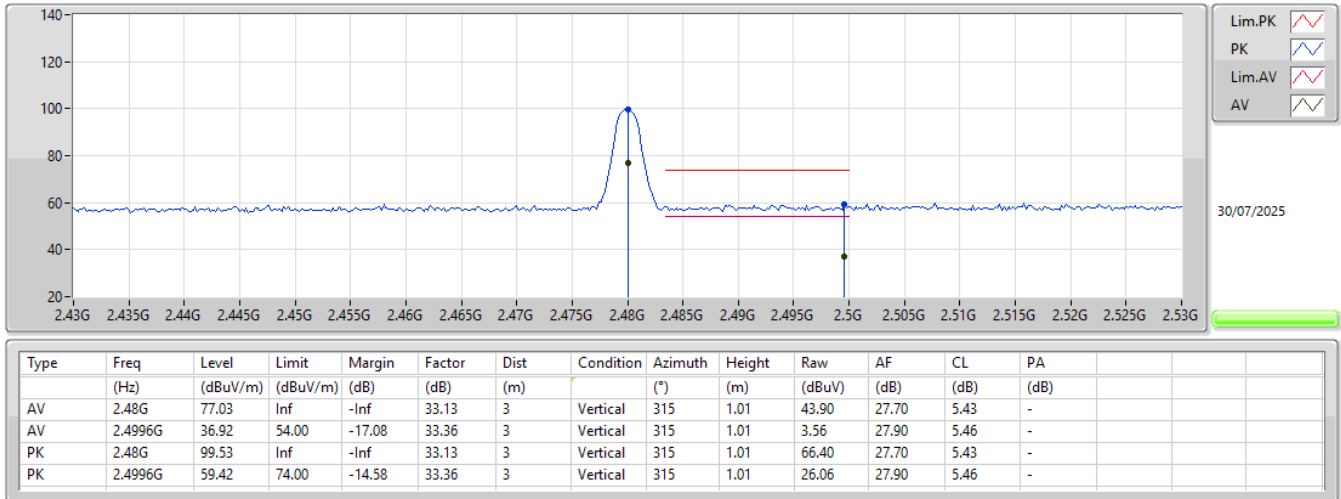
2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_TX



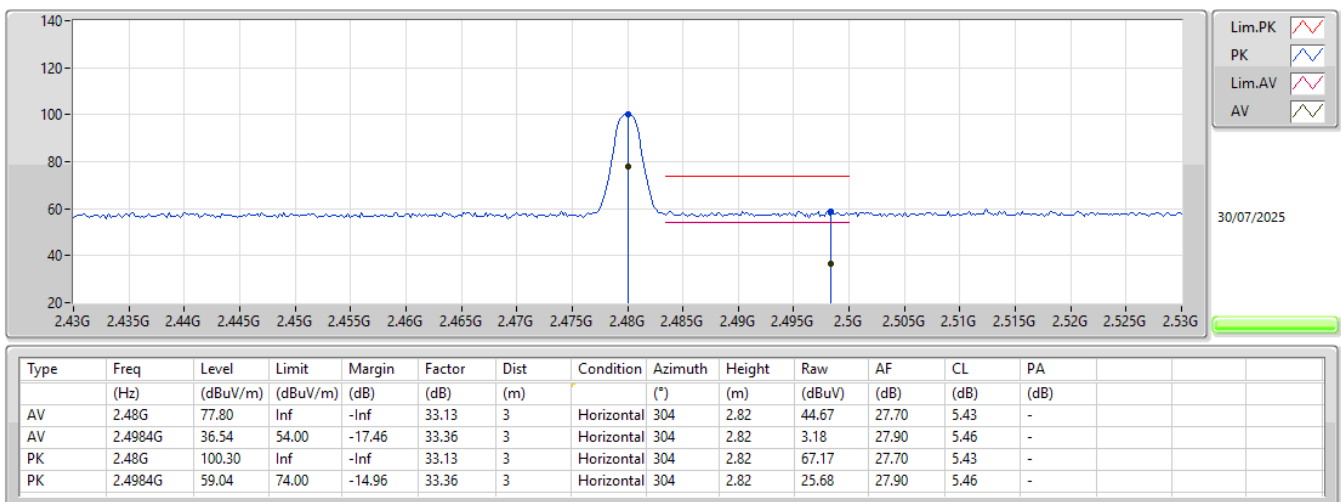
2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX



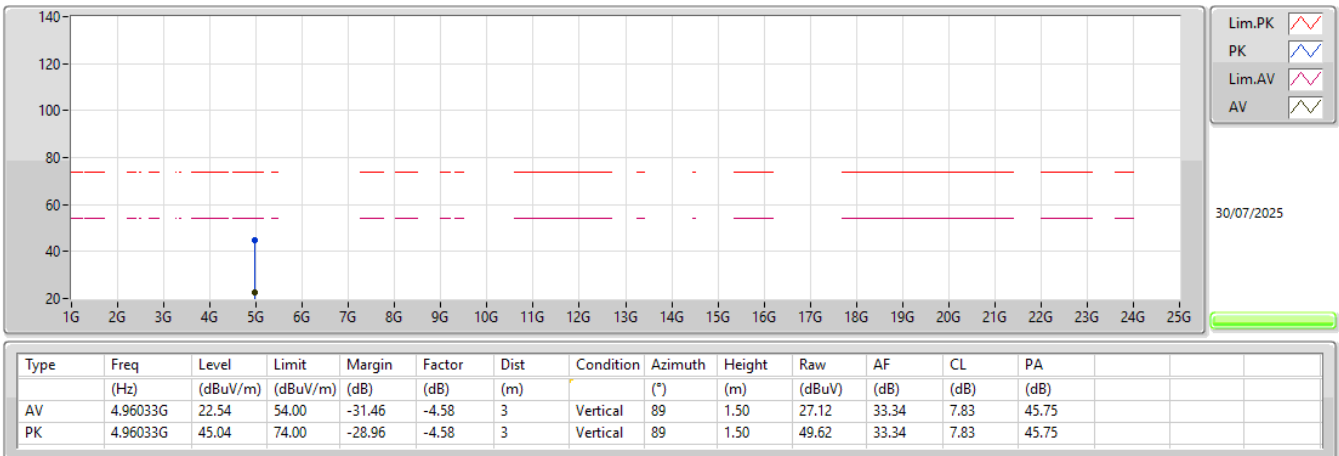
2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX

