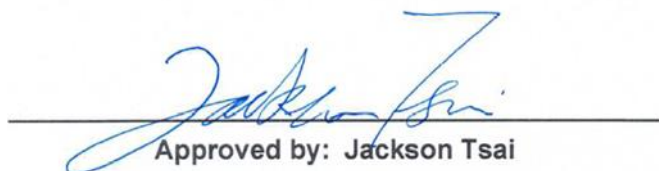


FCC Radio Test Report

FCC ID : M82-AIW-411
Equipment : Wireless MCU with Integrated Wi-Fi 6 and BLE/802.15.4 module
Brand Name : ADVANTECH
Model Name : AIW-4110X-GI1
Applicant : Advantech Co Ltd
No. 1, Alley 20, Lane 26, Rueiguang Road Neihu District, Taipei,
114 Taiwan
Manufacturer : Advantech Co., Ltd.
No. 1, Alley 20, Lane 26, Rueiguang Road Neihu District, Taipei,
114 Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 04, 2026, and testing was started from Feb. 04, 2026 and completed on Apr. 17, 2026. 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

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



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History of this test report

[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)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Daniel Hsu

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps/2Mbps/125kbps/500kbps) modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Bluetooth LE 125k/500k/1Mbps uses the same modulation, and 1Mbps was found to be the worst case scenario which was performed full test and recorded in this test report.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support
1	1	Advantech	RFA-25-KP108-C191	PIFA	I-Pex	2.4G+5G+BT+IEEE 802.15.4

Ant.	Port	Gain (dBi)			
		2.4G	5G	BT	802.15.4
1	1	3.39	4.97	3.39	3.39

Note 1: The EUT has one antenna.

For 2.4GHz function:

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

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

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)

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

For BT function:

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

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

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

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

**1.1.3 EUT Information**

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.854	0.69	2.134m	500
BT-LE(2Mbps)	0.432	3.65	1.079m	1k

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

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
 - ♦ ANSI C63.10-2020 + 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	Daniel Lin	18.2~20.5℃ / 58~62%	26/Mar/2026
RF Conducted	TH07-HY	Peng Huang	23.8~23.9℃ / 54~57%	17/Apr/2026
Radiated	03CH03-HY	Simon Cheng	22.2~23.4℃ / 50~52%	04/Feb/2026~19/Mar/2026
Radiated (Co-location)	03CH02-HY	Daniel Lin	23.5~24.5℃ / 50~54%	15/Apr/2026
☐ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			

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	3.24 dB	Confidence levels of 95%
Conducted Output Power	1.12 dB	Confidence levels of 95%
Bandwidth	0.07 MHz	Confidence levels of 95%
Conducted Emission	1.12 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	1.76 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.38 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	4.94 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	4.92 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Dut labtool v2.0.0.35
-----------------------	-----------------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	11
2440MHz	11
2480MHz	11
BT-LE(2Mbps)	-
2402MHz	11
2440MHz	11
2480MHz	11

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	Fixture Mode

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 5GHz + Bluetooth
2	WLAN 5GHz + 802.15.4
Refer to Sporton Test Report No.: FA612902 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	



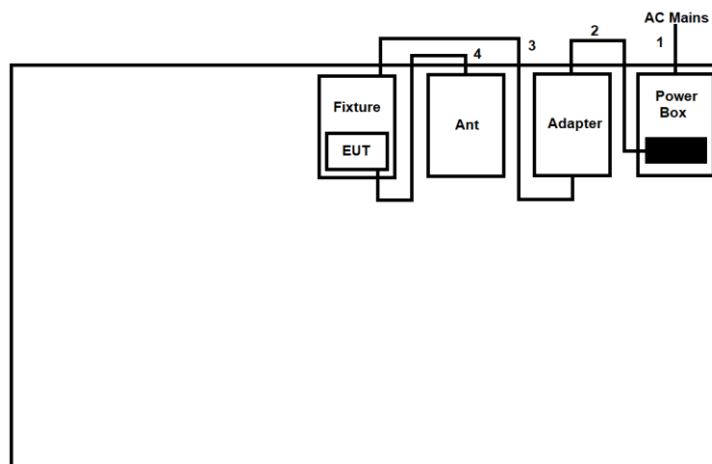
2.3 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	Delta	ADP-90RE B	-	Provided by Customer
2	Power Cord	N/A	N/A	-	Provided by Customer
3	Fixture	ADVANTECH	AIW-DK411-GI	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture	ADVANTECH	AIW-DK411-GI	-	-

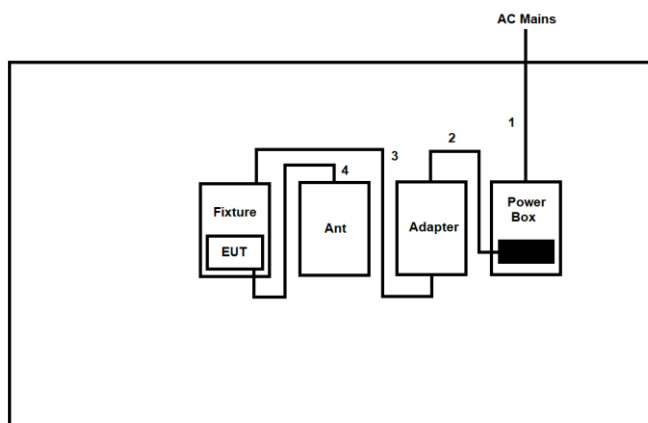
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.0	-
2	AC Power Cable	No	1.0	-
3	DC Power Cable	No	1.5	-
4	Ant cable	No	0.5	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	AC Power Cable	No	1.0	-
3	DC Power Cable	No	1.5	-
4	Ant cable	No	0.5	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

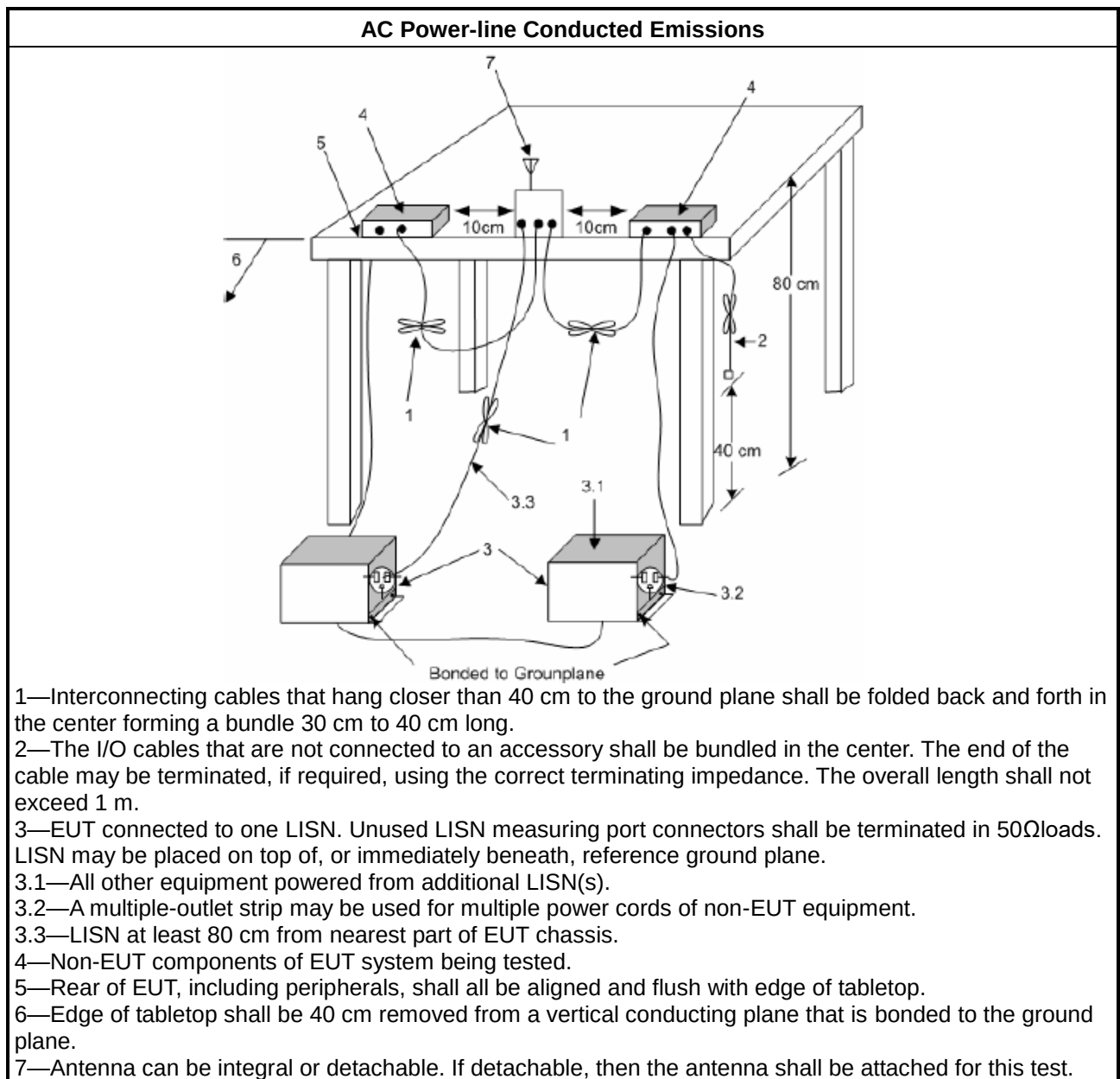
Test Method
▪ Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

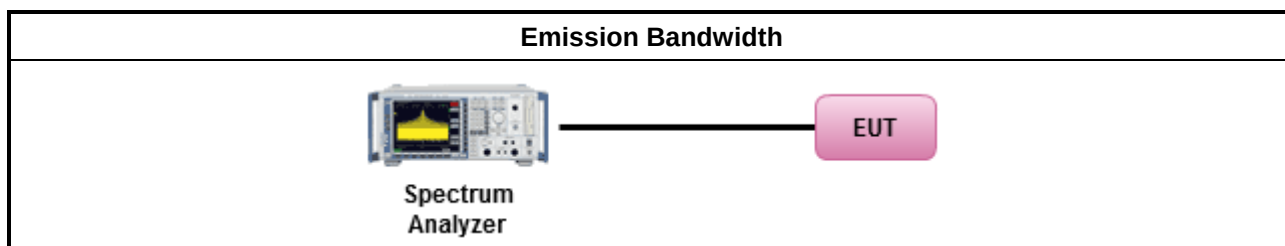
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

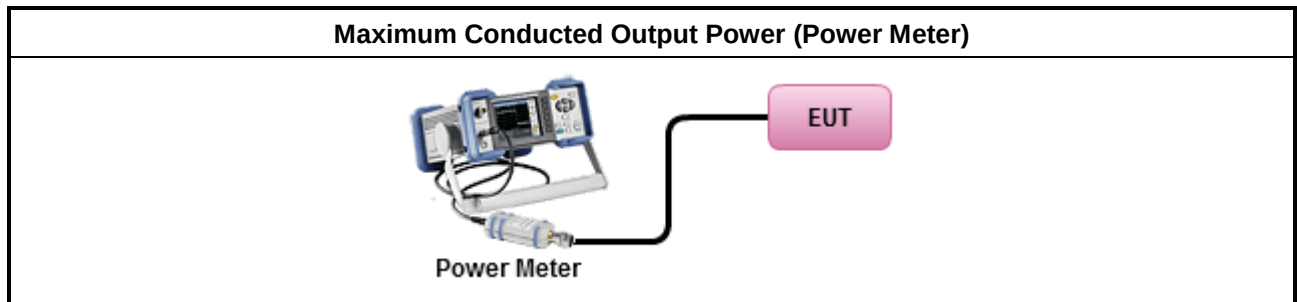
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

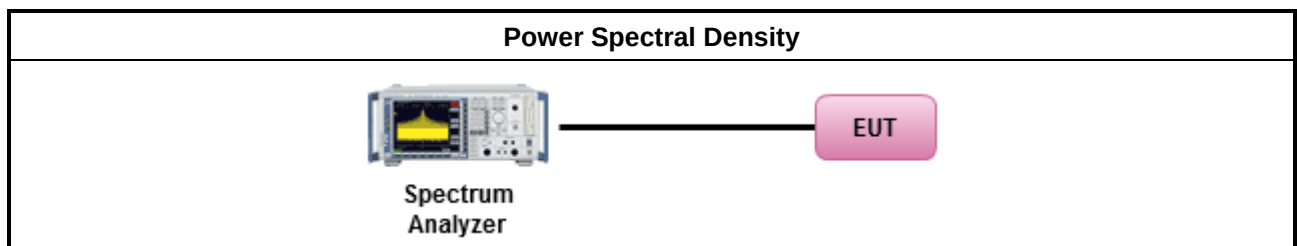
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

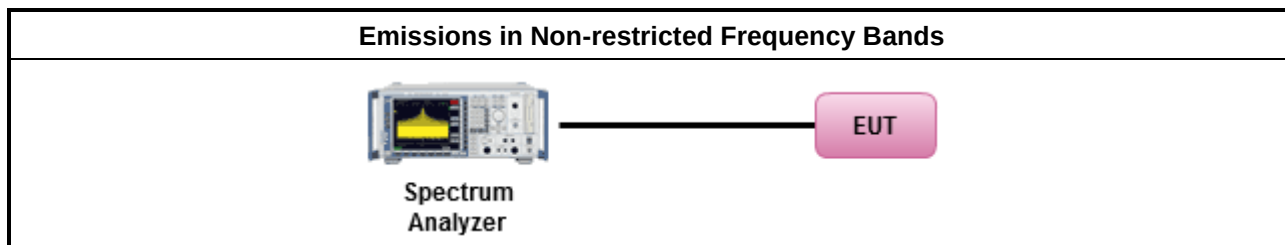
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

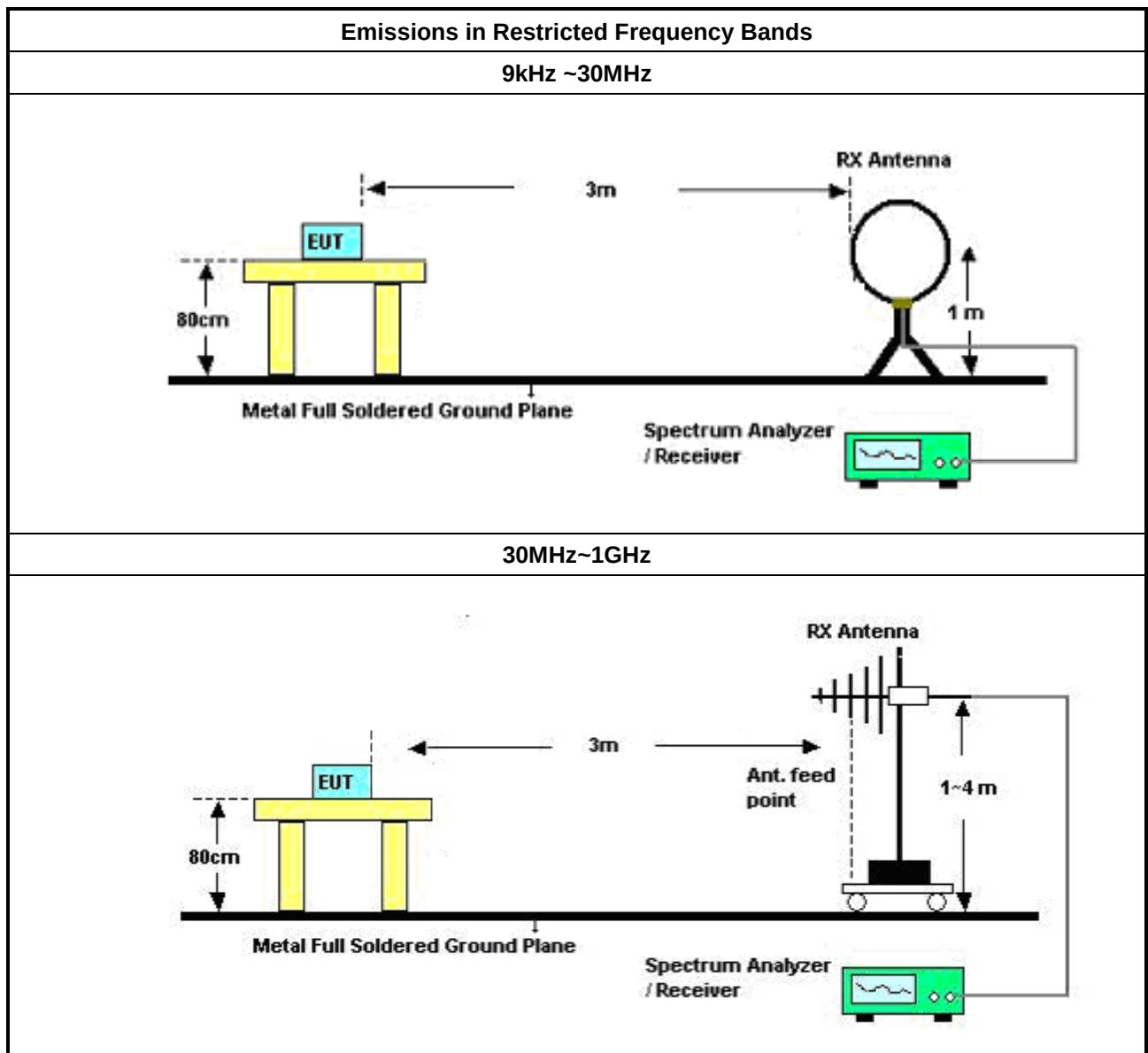
Test Method	
	- The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor]. - Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	- For the transmitter unwanted emissions shall be measured using following options below: - Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	- For the transmitter band-edge emissions shall be measured using following options below: - Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. - Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements. - Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	- Use the following spectrum analyzer settings: - Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold. - Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	- Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field. - Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

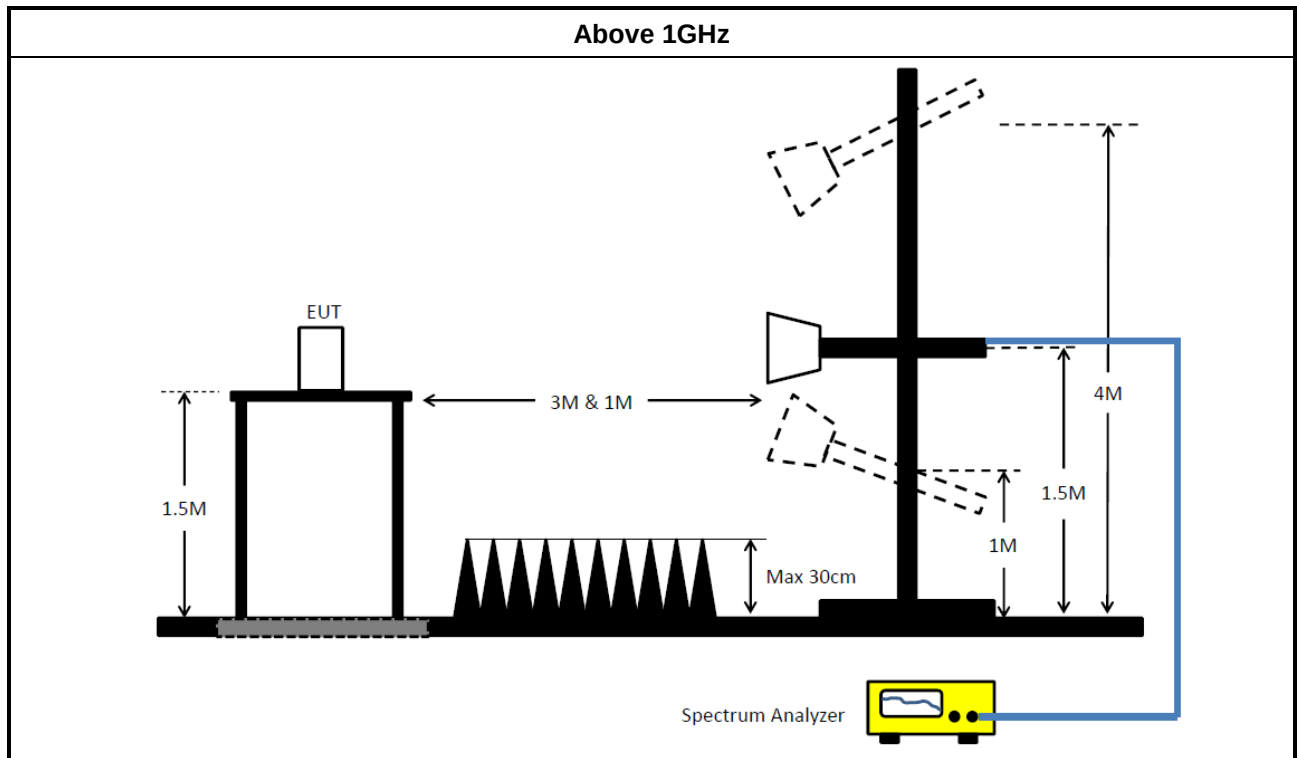
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	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	TITAN	CO04-cable-01	9kHz~200MHz	25/Feb/2026	24/Feb/2027
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	FSV 40	101515	10Hz~40GHz	05/Jan/2026	04/Jan/2027
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	17/Dec/2025	16/Dec/2026
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	17/Dec/2025	16/Dec/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
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	12/Jul/2025	11/Jul/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV40	101500	10Hz~40GHz	12/Nov/2025	11/Nov/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	03/Oct/2025	02/Oct/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	02/Jul/2025	01/Jul/2026
RF Cable HUBER+SUHNER	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-06	1GHz~40GHz	15/Aug/2025	14/Aug/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	30/Sep/2025	29/Sep/2026
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	26/Apr/2025	25/Apr/2026
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A

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 / EMC	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 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-15247_FS	Sporton	V5.11.23	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

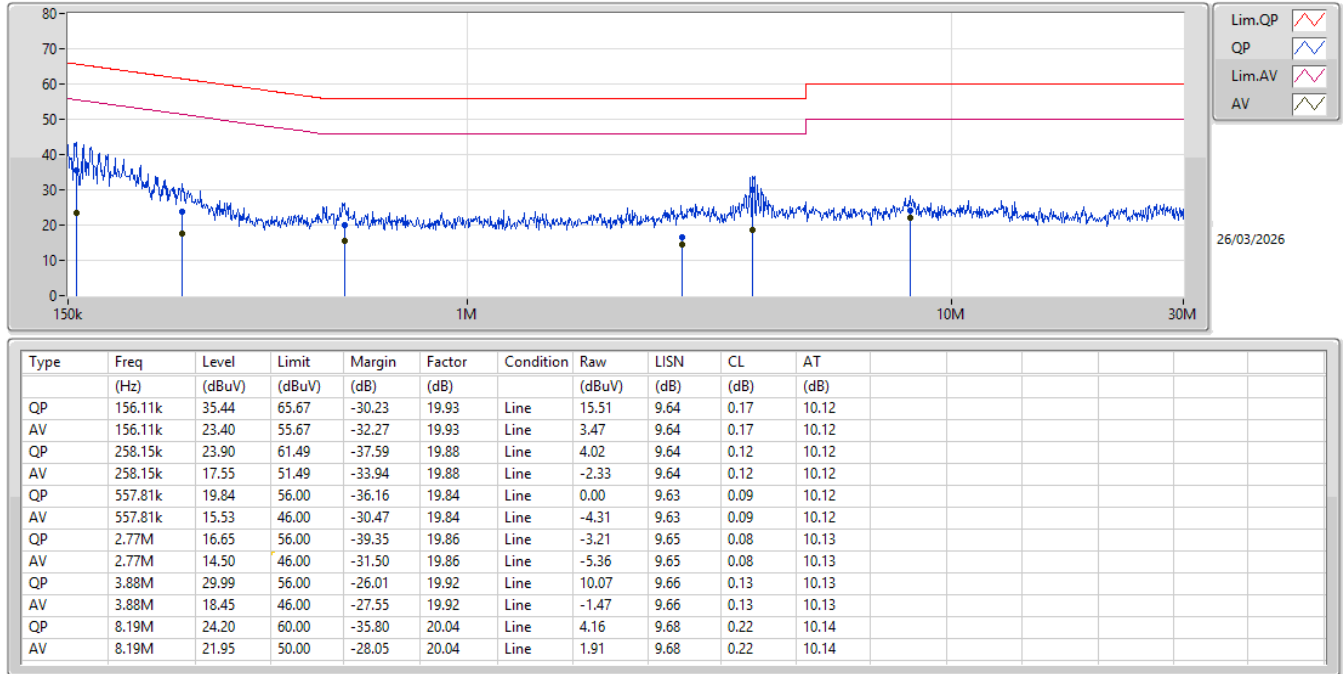
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	3.88M	29.99	56.00	-26.01	Line

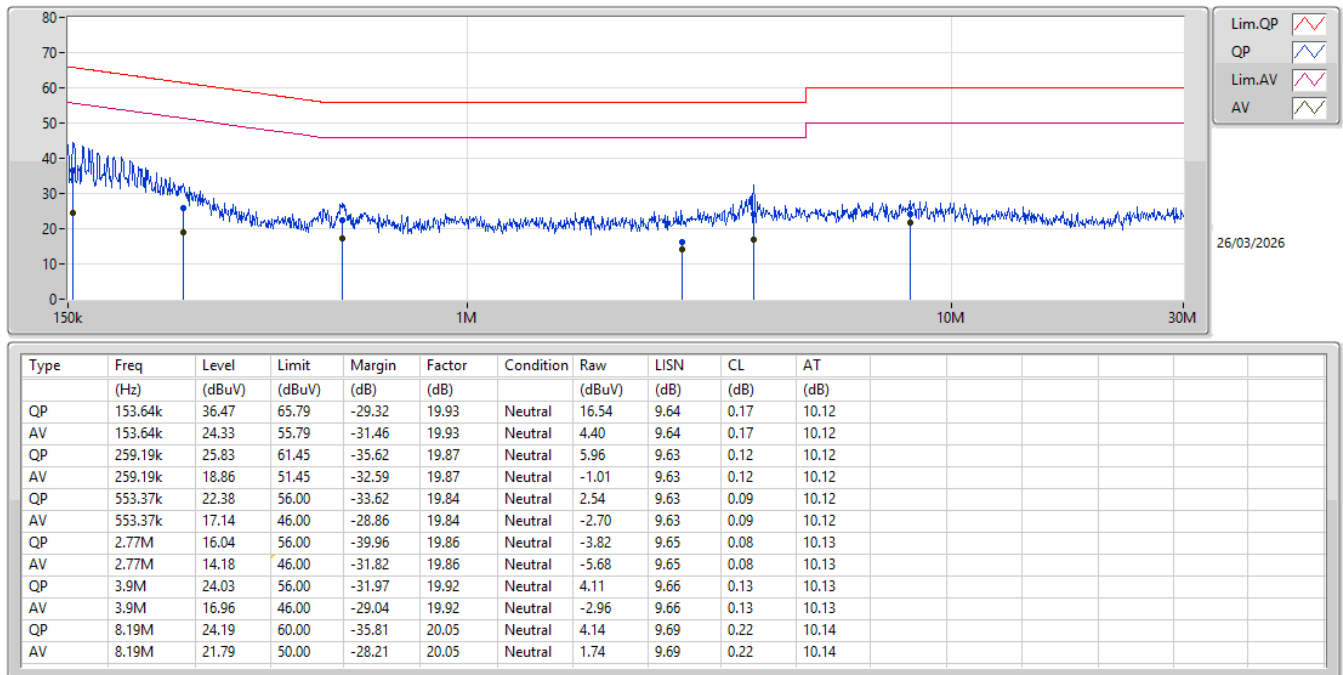
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.11k	35.44	65.67	-30.23	Line
Mode 1	Pass	AV	156.11k	23.40	55.67	-32.27	Line
Mode 1	Pass	QP	258.15k	23.90	61.49	-37.59	Line
Mode 1	Pass	AV	258.15k	17.55	51.49	-33.94	Line
Mode 1	Pass	QP	557.81k	19.84	56.00	-36.16	Line
Mode 1	Pass	AV	557.81k	15.53	46.00	-30.47	Line
Mode 1	Pass	QP	2.77M	16.65	56.00	-39.35	Line
Mode 1	Pass	AV	2.77M	14.50	46.00	-31.50	Line
Mode 1	Pass	QP	3.88M	29.99	56.00	-26.01	Line
Mode 1	Pass	AV	3.88M	18.45	46.00	-27.55	Line
Mode 1	Pass	QP	8.19M	24.20	60.00	-35.80	Line
Mode 1	Pass	AV	8.19M	21.95	50.00	-28.05	Line
Mode 1	Pass	QP	153.64k	36.47	65.79	-29.32	Neutral
Mode 1	Pass	AV	153.64k	24.33	55.79	-31.46	Neutral
Mode 1	Pass	QP	259.19k	25.83	61.45	-35.62	Neutral
Mode 1	Pass	AV	259.19k	18.86	51.45	-32.59	Neutral
Mode 1	Pass	QP	553.37k	22.38	56.00	-33.62	Neutral
Mode 1	Pass	AV	553.37k	17.14	46.00	-28.86	Neutral
Mode 1	Pass	QP	2.77M	16.04	56.00	-39.96	Neutral
Mode 1	Pass	AV	2.77M	14.18	46.00	-31.82	Neutral
Mode 1	Pass	QP	3.9M	24.03	56.00	-31.97	Neutral
Mode 1	Pass	AV	3.9M	16.96	46.00	-29.04	Neutral
Mode 1	Pass	QP	8.19M	24.19	60.00	-35.81	Neutral
Mode 1	Pass	AV	8.19M	21.79	50.00	-28.21	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	752.5k	1.045M	1M05F1D	741.25k	1.027M
BT-LE(2Mbps)	1.363M	2.106M	2M11F1D	812.5k	2.085M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	752.5k	1.044M
2440MHz	Pass	500k	742.5k	1.027M
2480MHz	Pass	500k	741.25k	1.045M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	812.5k	2.089M
2440MHz	Pass	500k	1.055M	2.106M
2480MHz	Pass	500k	1.363M	2.085M

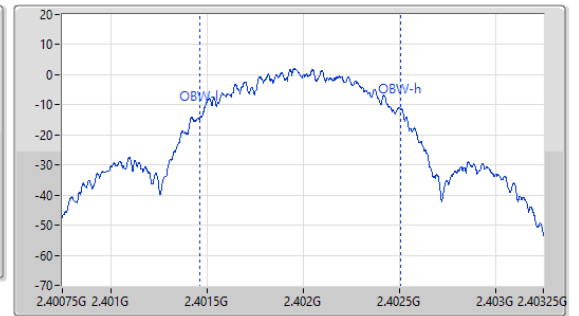
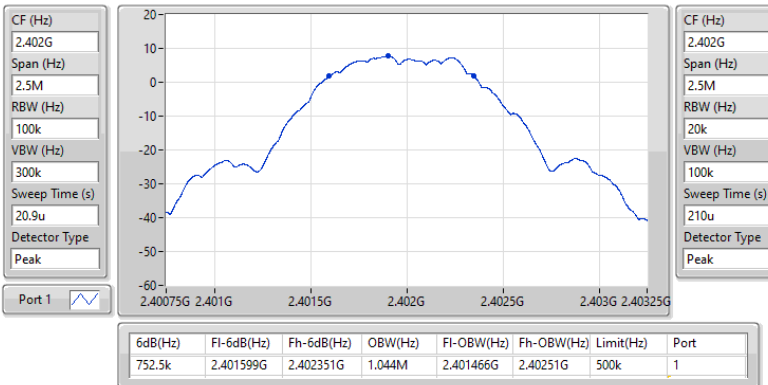
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2402MHz

17/04/2026

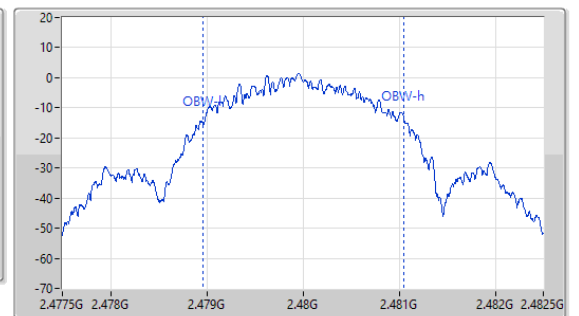
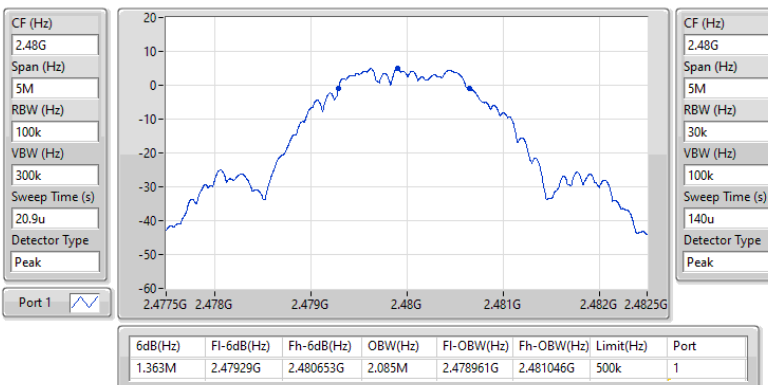


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz

17/04/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	9.00	0.00794
BT-LE(2Mbps)	9.10	0.00813

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.39	8.99	30.00
2440MHz	Pass	3.39	9.00	30.00
2480MHz	Pass	3.39	8.85	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.39	9.10	30.00
2440MHz	Pass	3.39	9.06	30.00
2480MHz	Pass	3.39	8.91	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-7.51
BT-LE(2Mbps)	-9.99

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.39	-7.85	8.00
2440MHz	Pass	3.39	-7.51	8.00
2480MHz	Pass	3.39	-7.66	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.39	-10.15	8.00
2440MHz	Pass	3.39	-9.99	8.00
2480MHz	Pass	3.39	-12.15	8.00

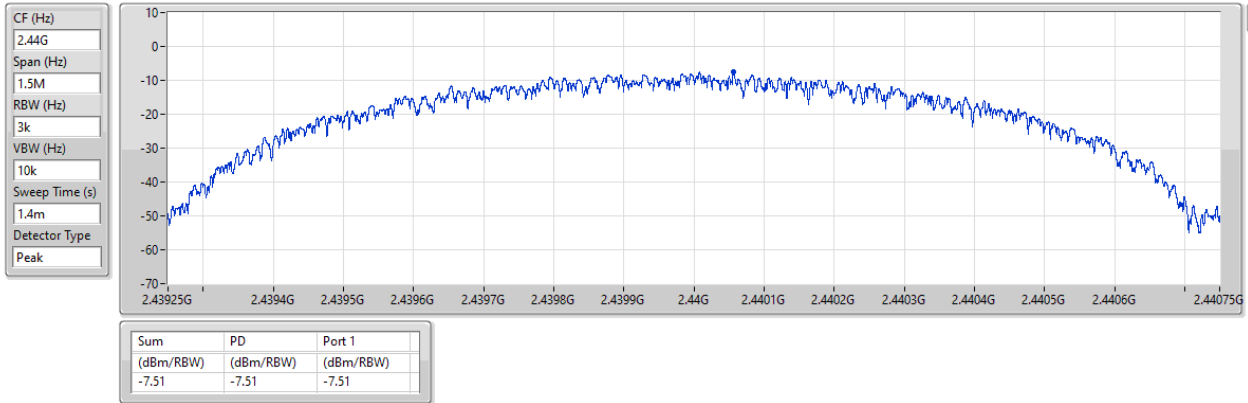
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

17/04/2026

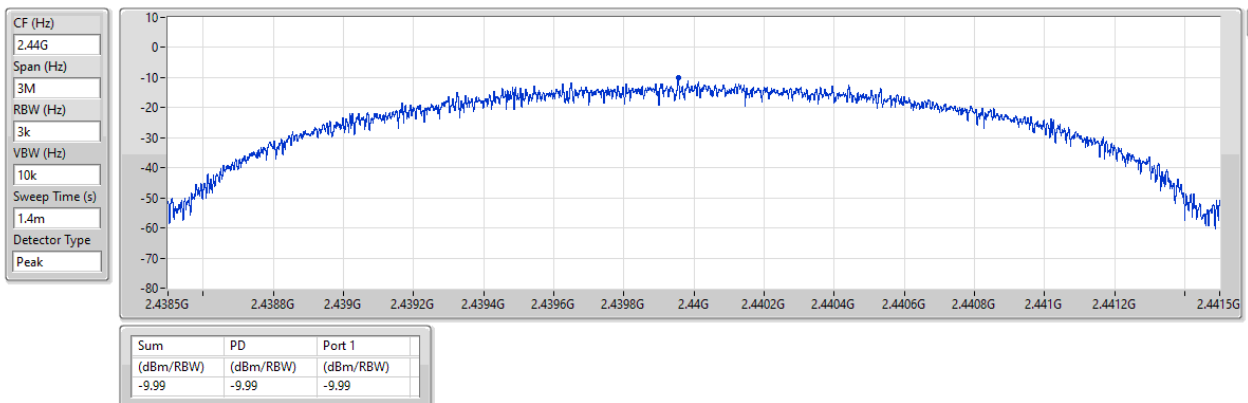


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

17/04/2026



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.44025G	9.38	-20.62	2.30598G	-51.86	2.39992G	-48.36	2.4G	-48.98	2.50082G	-53.35	21.91236G	-42.33	1
BT-LE(2Mbps)	Pass	2.40134G	8.81	-21.19	1.98638G	-53.34	2.4G	-22.69	2.4G	-23.09	2.50082G	-53.62	21.99109G	-42.16	1

Result

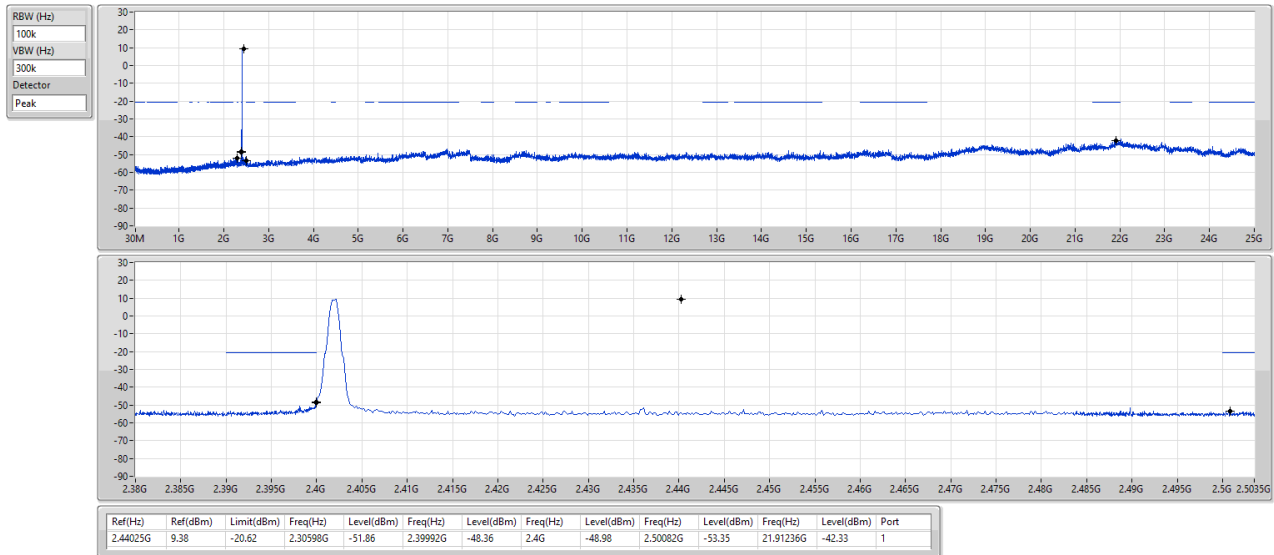
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44025G	9.38	-20.62	2.30598G	-51.86	2.39992G	-48.36	2.4G	-48.98	2.50082G	-53.35	21.91236G	-42.33	1
2440MHz	Pass	2.44025G	9.38	-20.62	2.1309G	-52.85	2.39884G	-52.43	2.4G	-54.15	2.50202G	-52.34	21.9236G	-41.83	1
2480MHz	Pass	2.44025G	9.38	-20.62	2.14383G	-52.62	2.39872G	-53.47	2.4G	-54.35	2.5011G	-53.49	21.93204G	-42.11	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40134G	8.81	-21.19	1.98638G	-53.34	2.4G	-22.69	2.4G	-23.09	2.50082G	-53.62	21.99109G	-42.16	1
2440MHz	Pass	2.40134G	8.81	-21.19	1.8207G	-52.90	2.397G	-53.00	2.4G	-53.93	2.50266G	-53.69	21.96578G	-42.03	1
2480MHz	Pass	2.40134G	8.81	-21.19	2.19083G	-52.64	2.39804G	-53.10	2.4G	-55.72	2.50302G	-53.67	21.98828G	-41.41	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

17/04/2026

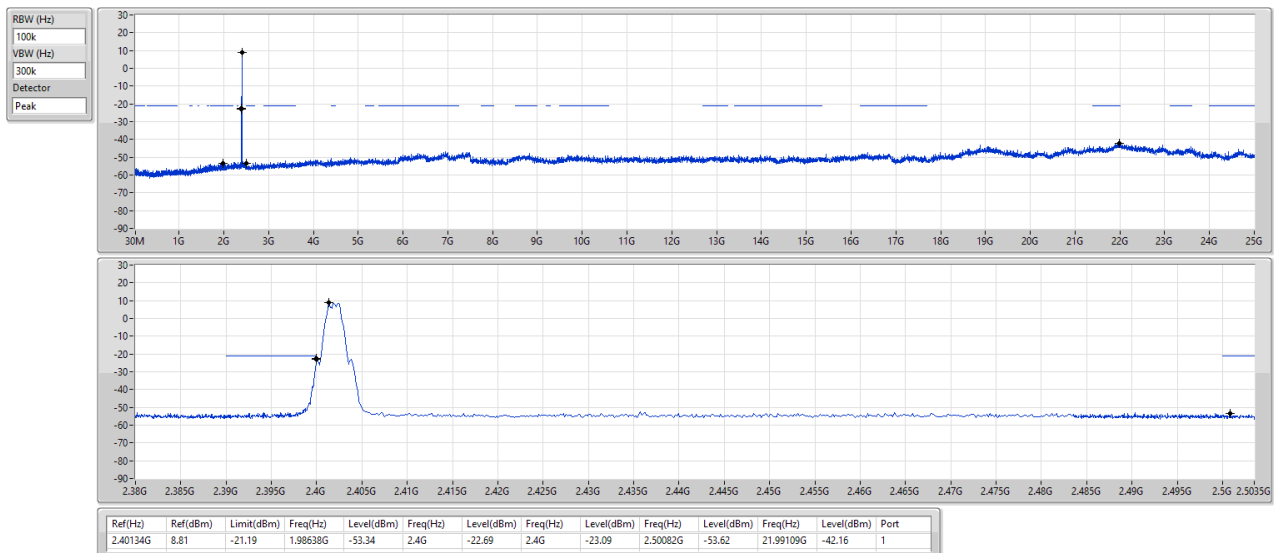


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

17/04/2026





Summary

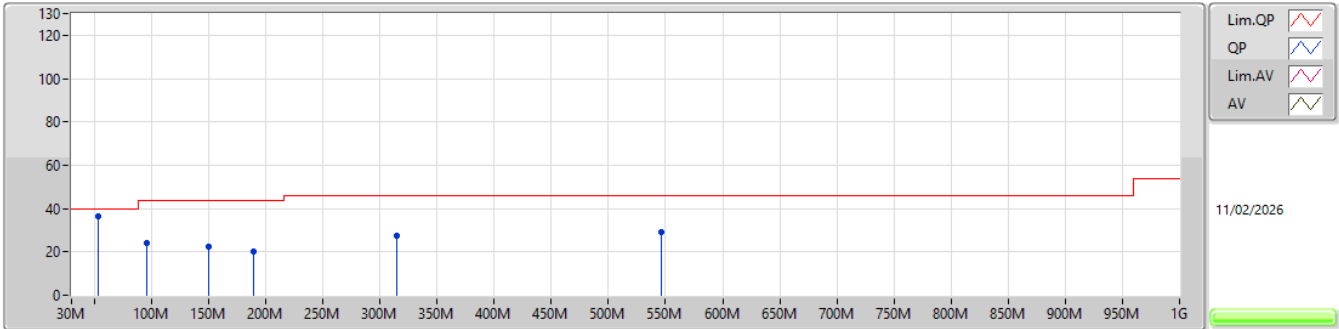
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	53.28M	36.17	40.00	-3.83	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	53.28M	36.17	40.00	-3.83	3	Vertical	0	1.00
2440MHz	Pass	PK	95.96M	24.00	43.50	-19.50	3	Vertical	0	1.00
2440MHz	Pass	PK	150.28M	22.44	43.50	-21.06	3	Vertical	0	1.00
2440MHz	Pass	PK	189.08M	20.03	43.50	-23.47	3	Vertical	0	1.00
2440MHz	Pass	PK	315.18M	27.28	46.00	-18.72	3	Vertical	0	1.00
2440MHz	Pass	PK	546.04M	29.36	46.00	-16.64	3	Vertical	0	1.00
2440MHz	Pass	PK	55.22M	26.40	40.00	-13.60	3	Horizontal	360	1.00
2440MHz	Pass	PK	95.96M	27.14	43.50	-16.36	3	Horizontal	360	1.00
2440MHz	Pass	PK	148.34M	24.87	43.50	-18.63	3	Horizontal	360	1.00
2440MHz	Pass	PK	210.42M	21.50	43.50	-22.00	3	Horizontal	360	1.00
2440MHz	Pass	PK	313.24M	34.11	46.00	-11.89	3	Horizontal	360	1.00
2440MHz	Pass	PK	547.98M	28.71	46.00	-17.29	3	Horizontal	360	1.00

2.4-2.4835GHz_BT-LE(2Mbps)

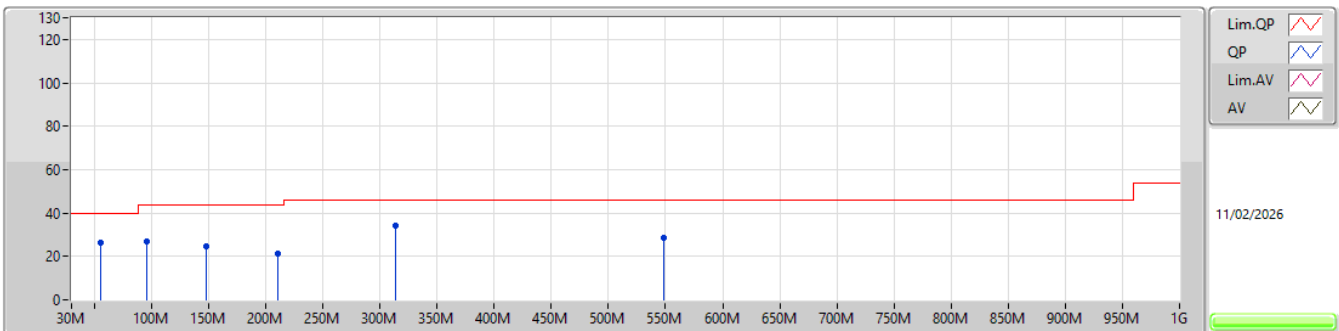
2440MHz_TX



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)
PK	53.28M	36.17	40.00	-3.83	-12.10	3	Vertical	0	1.00	48.27	13.14	1.25	26.49
PK	95.96M	24.00	43.50	-19.50	-8.25	3	Vertical	0	1.00	32.25	16.35	1.71	26.31
PK	150.28M	22.44	43.50	-21.06	-7.94	3	Vertical	0	1.00	30.38	16.55	1.99	26.48
PK	189.08M	20.03	43.50	-23.47	-9.57	3	Vertical	0	1.00	29.60	14.87	2.28	26.72
PK	315.18M	27.28	46.00	-18.72	-5.04	3	Vertical	0	1.00	32.32	19.61	3.03	27.68
PK	546.04M	29.36	46.00	-16.64	0.35	3	Vertical	0	1.00	29.01	25.19	4.01	28.85

2.4-2.4835GHz_BT-LE(2Mbps)

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)
PK	55.22M	26.40	40.00	-13.60	-12.43	3	Horizontal	360	1.00	38.83	12.78	1.25	26.46
PK	95.96M	27.14	43.50	-16.36	-8.25	3	Horizontal	360	1.00	35.39	16.35	1.71	26.31
PK	148.34M	24.87	43.50	-18.63	-7.82	3	Horizontal	360	1.00	32.69	16.67	1.97	26.46
PK	210.42M	21.50	43.50	-22.00	-9.16	3	Horizontal	360	1.00	30.66	15.27	2.40	26.83
PK	313.24M	34.11	46.00	-11.89	-5.05	3	Horizontal	360	1.00	39.16	19.59	3.02	27.66
PK	547.98M	28.71	46.00	-17.29	0.31	3	Horizontal	360	1.00	28.40	25.13	4.02	28.84



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4836G	46.94	54.00	-7.06	3	Vertical	197	1.96
BT-LE(2Mbps)	Pass	AV	2.4835G	48.89	54.00	-5.11	3	Vertical	287	1.31

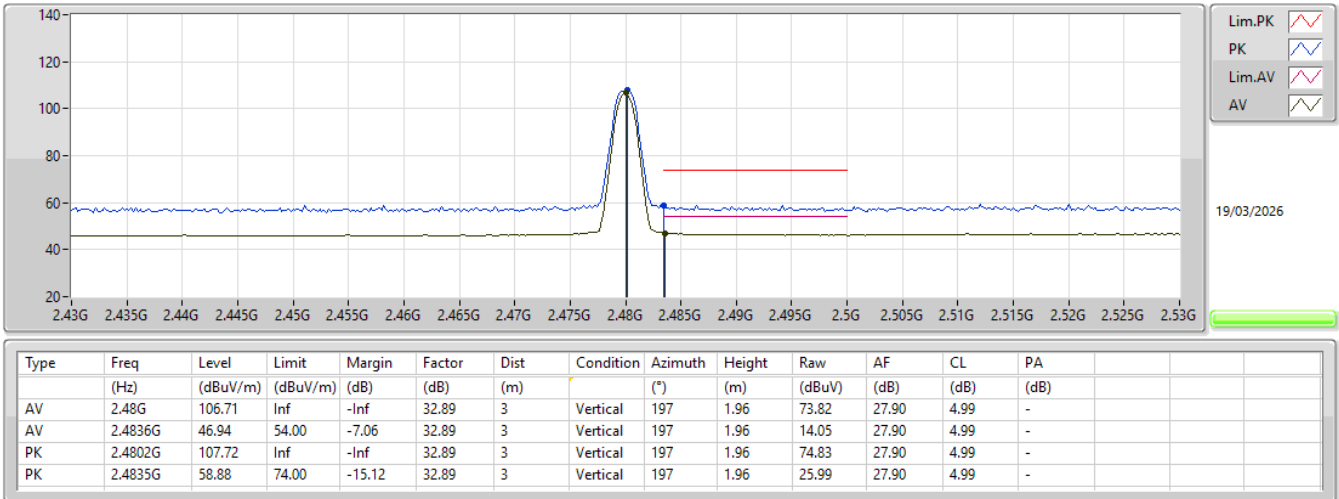
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3866G	45.81	54.00	-8.19	3	Vertical	209	1.40
2402MHz	Pass	AV	2.402G	104.76	Inf	-Inf	3	Vertical	209	1.40
2402MHz	Pass	PK	2.3564G	57.75	74.00	-16.25	3	Vertical	209	1.40
2402MHz	Pass	PK	2.4018G	105.74	Inf	-Inf	3	Vertical	209	1.40
2402MHz	Pass	AV	2.3886G	45.72	54.00	-8.28	3	Horizontal	135	1.29
2402MHz	Pass	AV	2.402G	103.77	Inf	-Inf	3	Horizontal	135	1.29
2402MHz	Pass	PK	2.36G	57.64	74.00	-16.36	3	Horizontal	135	1.29
2402MHz	Pass	PK	2.4018G	104.77	Inf	-Inf	3	Horizontal	135	1.29
2402MHz	Pass	AV	4.80446G	33.02	54.00	-20.98	3	Vertical	53	1.05
2402MHz	Pass	PK	4.80432G	45.11	74.00	-28.89	3	Vertical	53	1.05
2402MHz	Pass	AV	4.80527G	33.10	54.00	-20.90	3	Horizontal	284	2.42
2402MHz	Pass	PK	4.80519G	45.32	74.00	-28.68	3	Horizontal	284	2.42
2402MHz	Pass	AV	2.3892G	45.78	54.00	-8.22	3	Vertical	196	1.85
2440MHz	Pass	AV	2.44G	105.23	Inf	-Inf	3	Vertical	196	1.85
2440MHz	Pass	AV	2.4924G	46.51	54.00	-7.49	3	Vertical	196	1.85
2440MHz	Pass	PK	2.3556G	57.98	74.00	-16.02	3	Vertical	196	1.85
2440MHz	Pass	PK	2.4404G	106.21	Inf	-Inf	3	Vertical	196	1.85
2440MHz	Pass	PK	2.4944G	58.29	74.00	-15.71	3	Vertical	196	1.85
2440MHz	Pass	AV	2.3888G	45.61	54.00	-8.39	3	Horizontal	136	1.27
2440MHz	Pass	AV	2.44G	102.14	Inf	-Inf	3	Horizontal	136	1.27
2440MHz	Pass	AV	2.4972G	46.36	54.00	-7.64	3	Horizontal	136	1.27
2440MHz	Pass	PK	2.358G	58.87	74.00	-15.13	3	Horizontal	136	1.27
2440MHz	Pass	PK	2.4396G	103.12	Inf	-Inf	3	Horizontal	136	1.27
2440MHz	Pass	PK	2.484G	59.21	74.00	-14.79	3	Horizontal	136	1.27
2440MHz	Pass	AV	4.87934G	33.73	54.00	-20.27	3	Vertical	117	2.22
2440MHz	Pass	PK	4.88002G	46.17	74.00	-27.83	3	Vertical	117	2.22
2440MHz	Pass	AV	4.87894G	33.75	54.00	-20.25	3	Horizontal	139	2.59
2440MHz	Pass	PK	4.88092G	46.35	74.00	-27.65	3	Horizontal	139	2.59
2480MHz	Pass	AV	2.48G	106.71	Inf	-Inf	3	Vertical	197	1.96
2480MHz	Pass	AV	2.4836G	46.94	54.00	-7.06	3	Vertical	197	1.96
2480MHz	Pass	PK	2.4802G	107.72	Inf	-Inf	3	Vertical	197	1.96
2480MHz	Pass	PK	2.4835G	58.88	74.00	-15.12	3	Vertical	197	1.96
2480MHz	Pass	AV	2.48G	102.29	Inf	-Inf	3	Horizontal	200	2.17
2480MHz	Pass	AV	2.4835G	46.57	54.00	-7.43	3	Horizontal	200	2.17
2480MHz	Pass	PK	2.4802G	103.27	Inf	-Inf	3	Horizontal	200	2.17
2480MHz	Pass	PK	2.4902G	58.86	74.00	-15.14	3	Horizontal	200	2.17
2480MHz	Pass	AV	4.95901G	34.11	54.00	-19.89	3	Vertical	262	1.58
2480MHz	Pass	PK	4.95989G	45.56	74.00	-28.44	3	Vertical	262	1.58
2480MHz	Pass	AV	4.96059G	33.92	54.00	-20.08	3	Horizontal	323	2.89
2480MHz	Pass	PK	4.96027G	46.35	74.00	-27.65	3	Horizontal	323	2.89
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3878G	45.75	54.00	-8.25	3	Vertical	247	1.13
2402MHz	Pass	AV	2.402G	104.05	Inf	-Inf	3	Vertical	247	1.13
2402MHz	Pass	PK	2.3798G	57.83	74.00	-16.17	3	Vertical	247	1.13
2402MHz	Pass	PK	2.4014G	106.74	Inf	-Inf	3	Vertical	247	1.13
2402MHz	Pass	AV	2.3834G	45.72	54.00	-8.28	3	Horizontal	154	2.52
2402MHz	Pass	AV	2.402G	102.04	Inf	-Inf	3	Horizontal	154	2.52
2402MHz	Pass	PK	2.3774G	57.08	74.00	-16.92	3	Horizontal	154	2.52
2402MHz	Pass	PK	2.4014G	104.71	Inf	-Inf	3	Horizontal	154	2.52
2402MHz	Pass	AV	4.80489G	33.94	54.00	-20.06	3	Vertical	231	1.37
2402MHz	Pass	PK	4.8029G	45.90	74.00	-28.10	3	Vertical	231	1.37
2402MHz	Pass	AV	4.80358G	33.33	54.00	-20.67	3	Horizontal	314	1.49
2402MHz	Pass	PK	4.80451G	45.06	74.00	-28.94	3	Horizontal	314	1.49
2440MHz	Pass	AV	2.3888G	46.10	54.00	-7.90	3	Vertical	197	1.84
2440MHz	Pass	AV	2.44G	103.38	Inf	-Inf	3	Vertical	197	1.84
2440MHz	Pass	AV	2.4876G	46.70	54.00	-7.30	3	Vertical	197	1.84
2440MHz	Pass	PK	2.364G	58.06	74.00	-15.94	3	Vertical	197	1.84
2440MHz	Pass	PK	2.4404G	106.12	Inf	-Inf	3	Vertical	197	1.84
2440MHz	Pass	PK	2.4876G	58.23	74.00	-15.77	3	Vertical	197	1.84
2440MHz	Pass	AV	2.368G	45.91	54.00	-8.09	3	Horizontal	136	1.27

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	100.42	Inf	-Inf	3	Horizontal	136	1.27
2440MHz	Pass	AV	2.4944G	46.73	54.00	-7.27	3	Horizontal	136	1.27
2440MHz	Pass	PK	2.3524G	58.15	74.00	-15.85	3	Horizontal	136	1.27
2440MHz	Pass	PK	2.4396G	103.15	Inf	-Inf	3	Horizontal	136	1.27
2440MHz	Pass	PK	2.4916G	58.42	74.00	-15.58	3	Horizontal	136	1.27
2440MHz	Pass	AV	4.87998G	33.98	54.00	-20.02	3	Vertical	92	1.44
2440MHz	Pass	PK	4.87963G	45.57	74.00	-28.43	3	Vertical	92	1.44
2440MHz	Pass	AV	4.87851G	34.08	54.00	-19.92	3	Horizontal	25	1.52
2440MHz	Pass	PK	4.88146G	45.88	74.00	-28.12	3	Horizontal	25	1.52
2480MHz	Pass	AV	2.48G	105.84	Inf	-Inf	3	Vertical	287	1.31
2480MHz	Pass	AV	2.4835G	48.89	54.00	-5.11	3	Vertical	287	1.31
2480MHz	Pass	PK	2.4804G	108.55	Inf	-Inf	3	Vertical	287	1.31
2480MHz	Pass	PK	2.4835G	58.94	74.00	-15.06	3	Vertical	287	1.31
2480MHz	Pass	AV	2.48G	99.23	Inf	-Inf	3	Horizontal	211	1.20
2480MHz	Pass	AV	2.4835G	46.82	54.00	-7.18	3	Horizontal	211	1.20
2480MHz	Pass	PK	2.4804G	101.93	Inf	-Inf	3	Horizontal	211	1.20
2480MHz	Pass	PK	2.4994G	58.16	74.00	-15.84	3	Horizontal	211	1.20
2480MHz	Pass	AV	4.95912G	35.74	54.00	-18.26	3	Vertical	229	1.78
2480MHz	Pass	PK	4.95891G	47.86	74.00	-26.14	3	Vertical	229	1.78
2480MHz	Pass	AV	4.95923G	34.27	54.00	-19.73	3	Horizontal	207	1.70
2480MHz	Pass	PK	4.95933G	45.91	74.00	-28.09	3	Horizontal	207	1.70

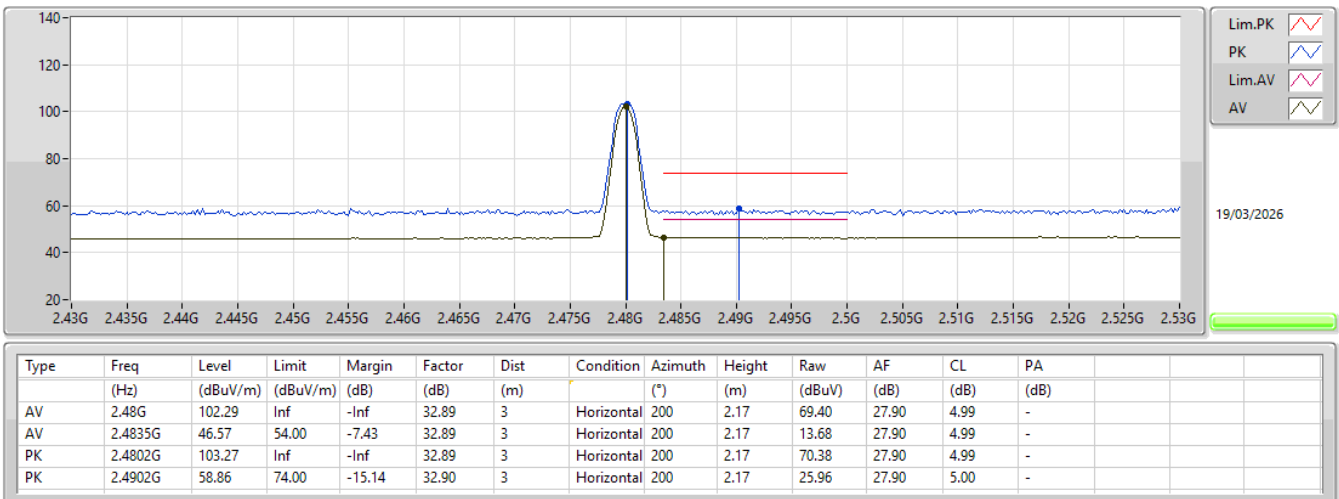
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2480MHz_TX



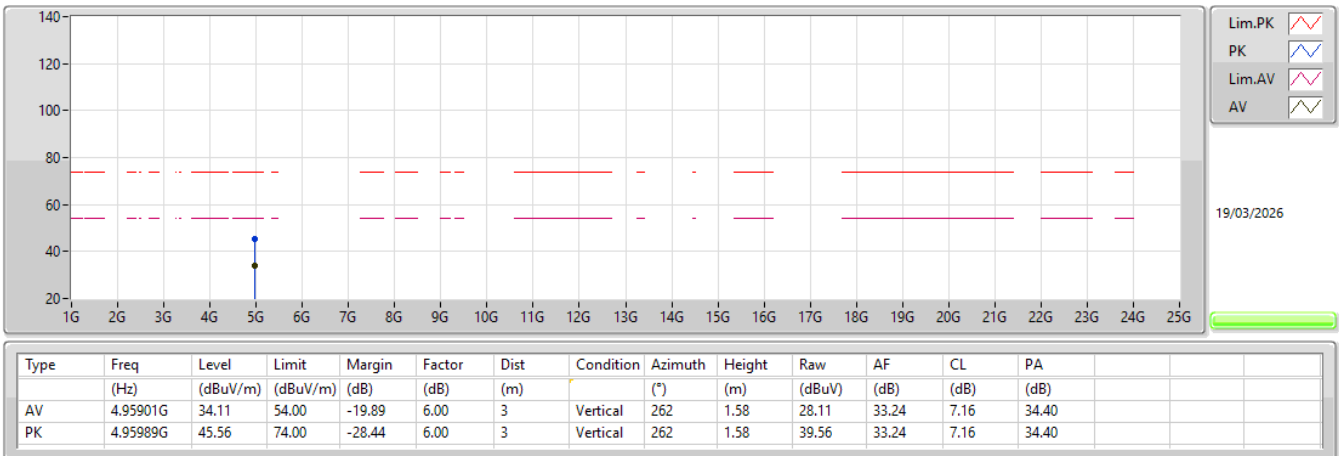
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2480MHz_TX



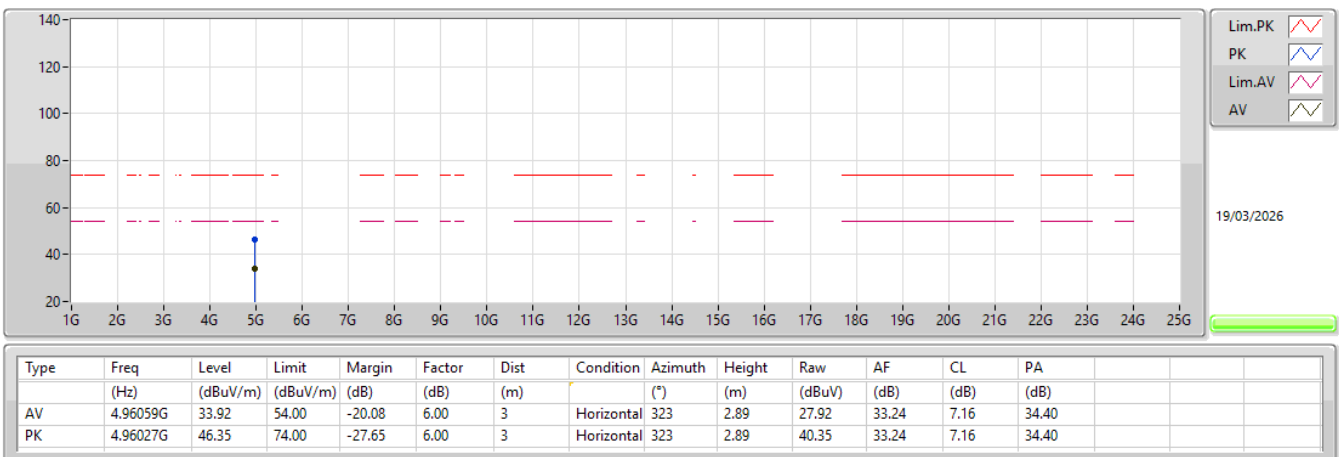
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2480MHz_TX



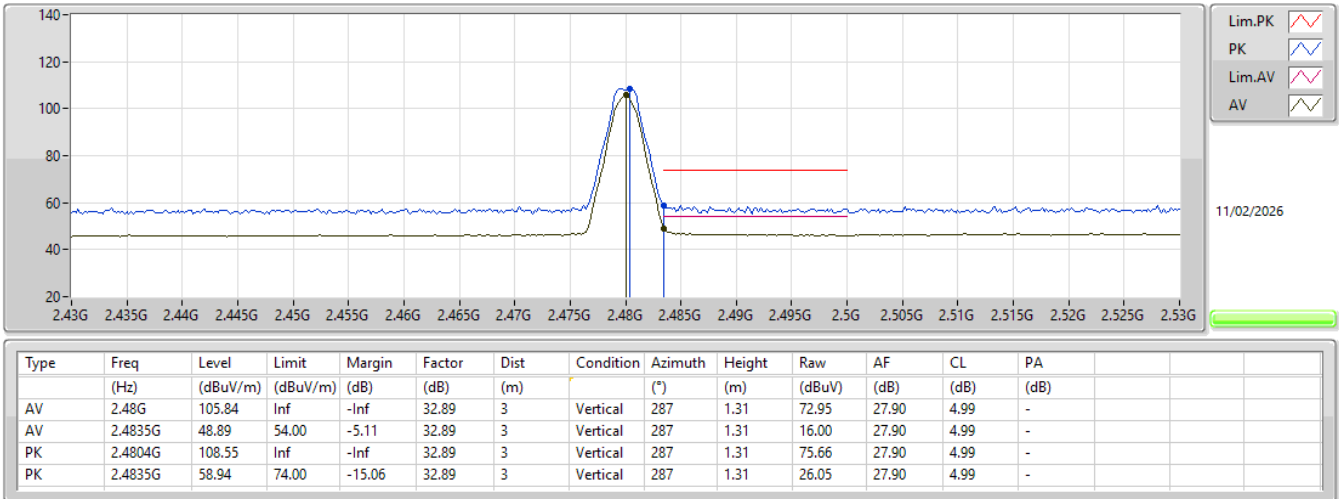
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2480MHz_TX



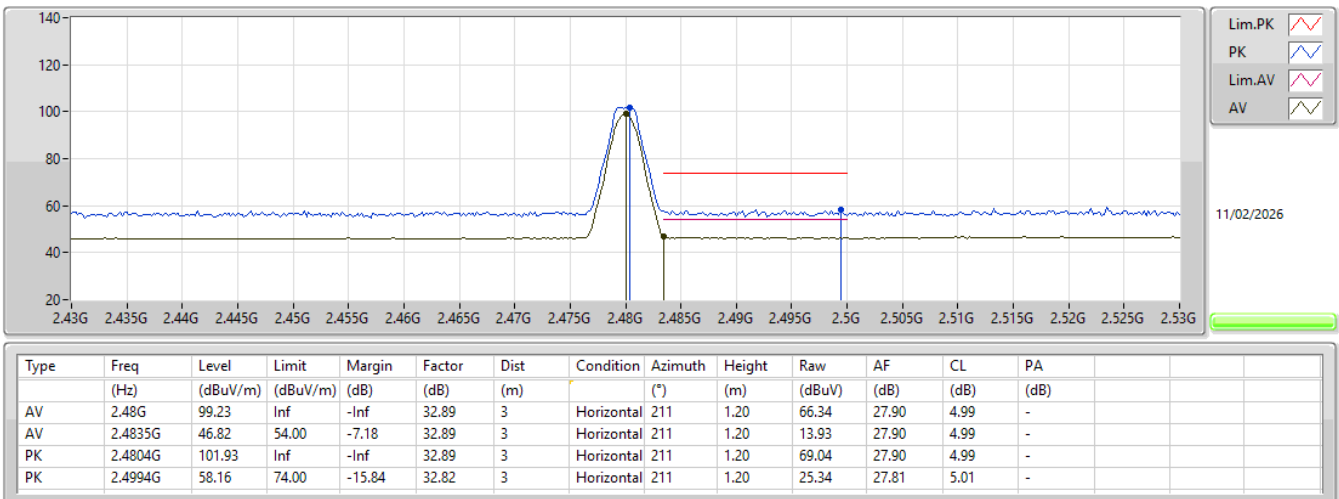
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2480MHz_TX



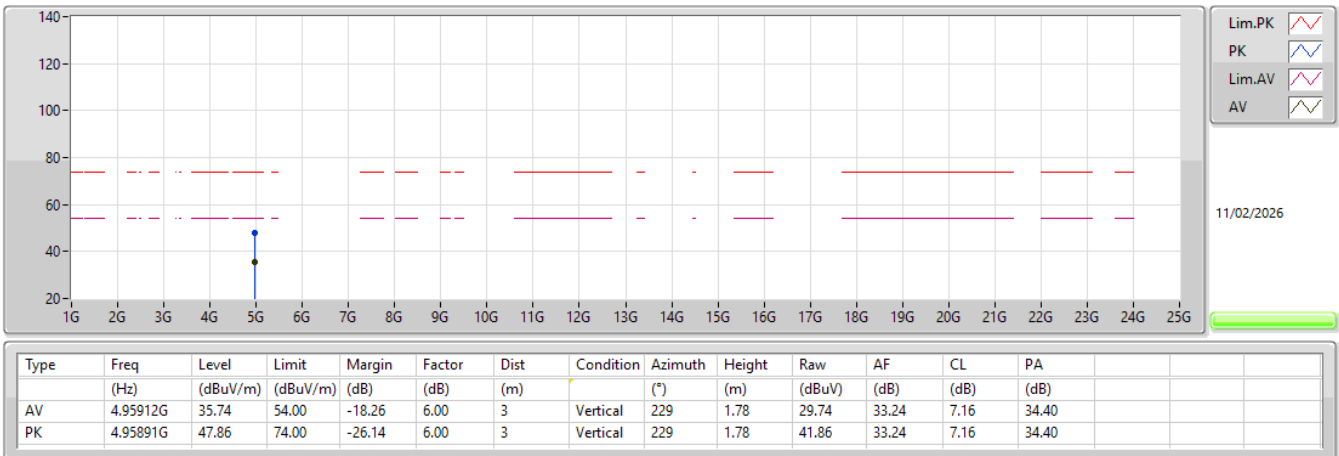
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2480MHz_TX



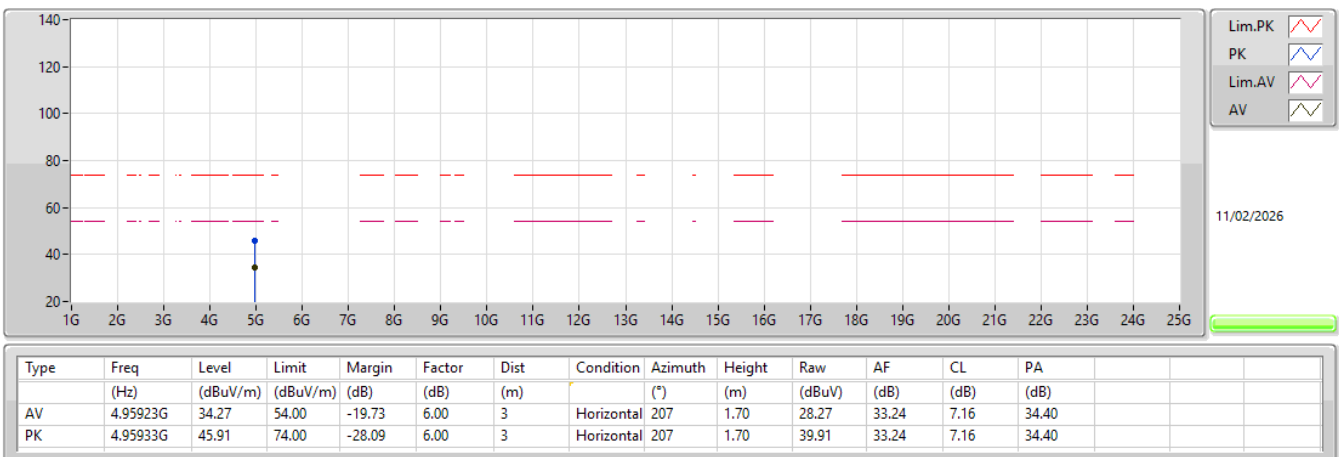
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



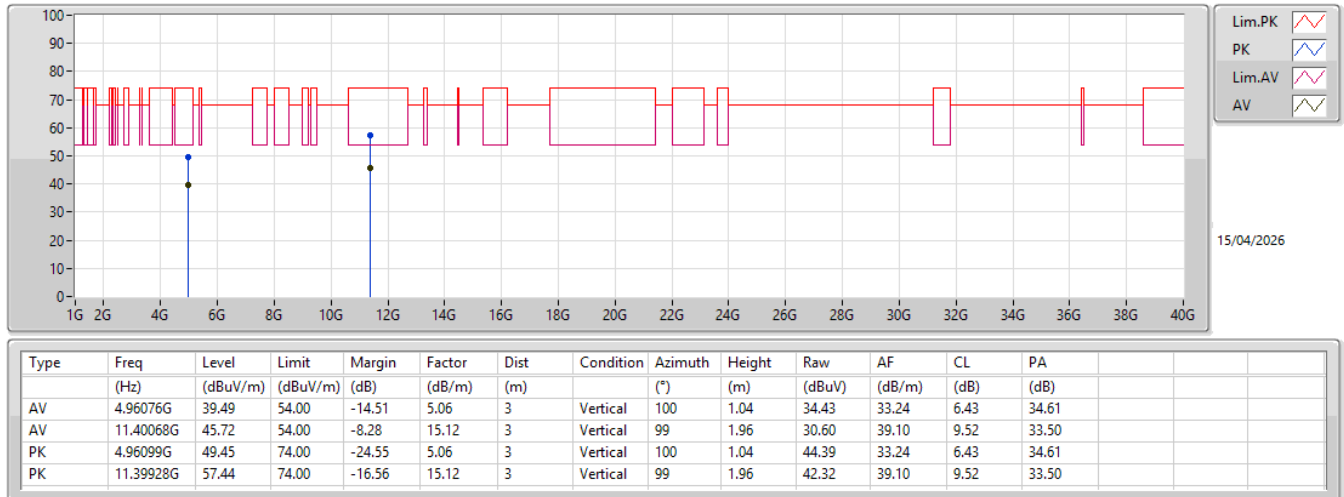
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	11.40068G	45.72	54.00	-8.28	Vertical
Mode 2	Pass	AV	11.39996G	46.08	54.00	-7.92	Vertical

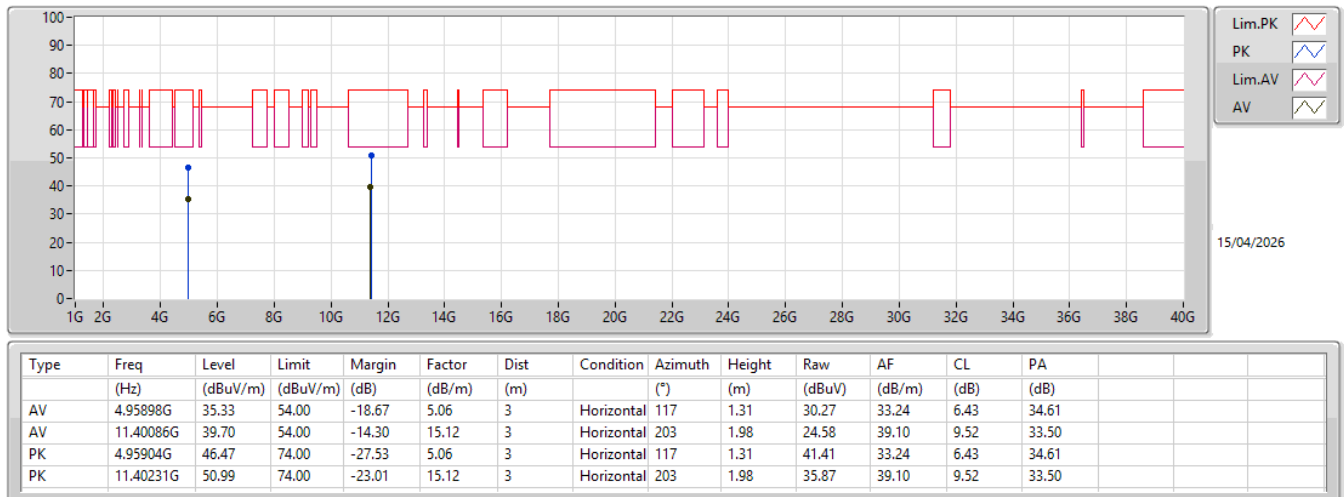
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.96076G	39.49	54.00	-14.51	3	Vertical	100	1.04
Mode 1	Pass	AV	11.40068G	45.72	54.00	-8.28	3	Vertical	99	1.96
Mode 1	Pass	PK	4.96099G	49.45	74.00	-24.55	3	Vertical	100	1.04
Mode 1	Pass	PK	11.39928G	57.44	74.00	-16.56	3	Vertical	99	1.96
Mode 1	Pass	AV	4.95898G	35.33	54.00	-18.67	3	Horizontal	117	1.31
Mode 1	Pass	AV	11.40086G	39.70	54.00	-14.30	3	Horizontal	203	1.98
Mode 1	Pass	PK	4.95904G	46.47	74.00	-27.53	3	Horizontal	117	1.31
Mode 1	Pass	PK	11.40231G	50.99	74.00	-23.01	3	Horizontal	203	1.98
Mode 2	Pass	AV	4.94898G	32.59	54.00	-21.41	3	Vertical	98	1.06
Mode 2	Pass	AV	11.39996G	46.08	54.00	-7.92	3	Vertical	84	2.83
Mode 2	Pass	PK	4.95065G	43.75	74.00	-30.25	3	Vertical	98	1.06
Mode 2	Pass	PK	11.40074G	57.65	74.00	-16.35	3	Vertical	84	2.83
Mode 2	Pass	AV	4.95085G	33.49	54.00	-20.51	3	Horizontal	96	2.05
Mode 2	Pass	AV	11.401G	40.00	54.00	-14.00	3	Horizontal	52	2.17
Mode 2	Pass	PK	4.94926G	44.69	74.00	-29.31	3	Horizontal	96	2.05
Mode 2	Pass	PK	11.39967G	51.94	74.00	-22.06	3	Horizontal	52	2.17

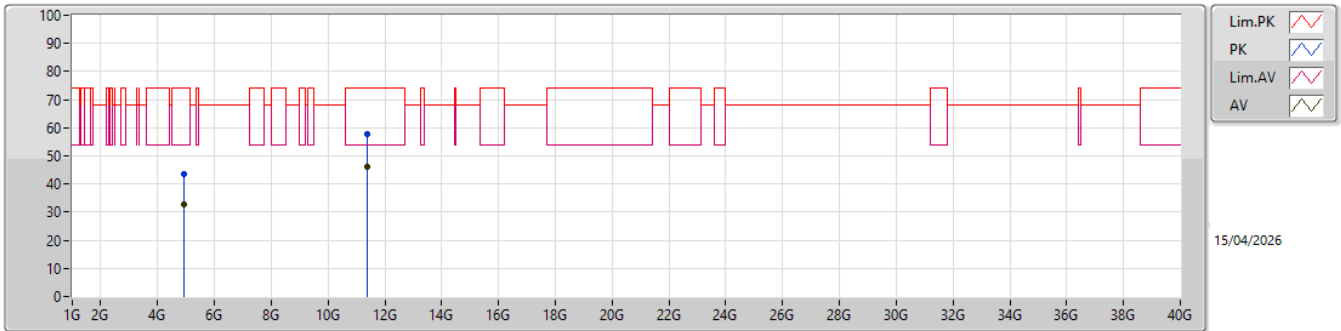
Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

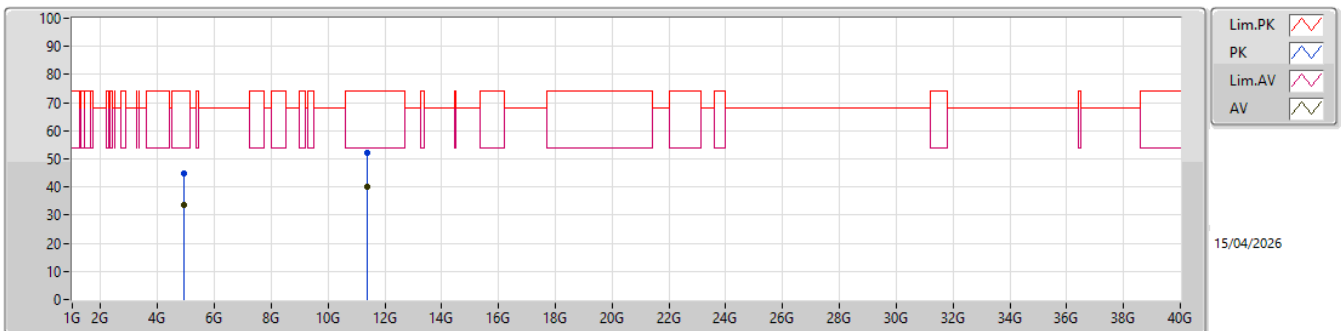


Radiated Emissions above 1GHz_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.94898G	32.59	54.00	-21.41	5.00	3	Vertical	98	1.06	27.59	33.19	6.42	34.61
AV	11.39996G	46.08	54.00	-7.92	15.12	3	Vertical	84	2.83	30.96	39.10	9.52	33.50
PK	4.95065G	43.75	74.00	-30.25	5.02	3	Vertical	98	1.06	38.73	33.20	6.43	34.61
PK	11.40074G	57.65	74.00	-16.35	15.12	3	Vertical	84	2.83	42.53	39.10	9.52	33.50

Radiated Emissions above 1GHz_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.95085G	33.49	54.00	-20.51	5.02	3	Horizontal	96	2.05	28.47	33.20	6.43	34.61
AV	11.401G	40.00	54.00	-14.00	15.12	3	Horizontal	52	2.17	24.88	39.10	9.52	33.50
PK	4.94926G	44.69	74.00	-29.31	5.01	3	Horizontal	96	2.05	39.68	33.20	6.42	34.61
PK	11.39967G	51.94	74.00	-22.06	15.12	3	Horizontal	52	2.17	36.82	39.10	9.52	33.50