

FCC Radio Test Report

FCC ID : YL6-143V716
Equipment : Alarm.com Outdoor 1080p Wi-Fi Video Camera
Brand Name : ALARM.COM
Model Name : ADC-V716
Applicant : Alarm.com Incorporated
8281 Greensboro Drive, Suite 100, Tysons, VA
22102, United States
Manufacturer : Alarm.com Incorporated
8281 Greensboro Drive, Suite 100, Tysons, VA
22102, United States
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 05, 2026, and testing was started from Jun. 09, 2026 and completed on Jul. 15, 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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Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Ben Tseng

Report Producer: Amber Chiu

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(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
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	Source
1	1	INPAQ	WA-F-LB-02-399	dipole	I-Pex	2.4G+5G	1
2	2	INPAQ	WA-F-LB-01-138	dipole	I-Pex	2.4G+5G+BT	
3	1	INPAQ	WA-F-LORA-05-001	monopole	I-Pex	Lora	

Ant.	Port	Gain (dBi)						
		2.4G	5G				BT	Lora
			UNII-1	UNII-2A	UNII-2C	UNII-3		
1	1	3.78	3.82	3.81	3.39	3.52	-	-
2	2	3.89	3.65	3.85	3.69	3.74	3.89	-
3	1	-	-	-	-	-	-	1.69

Note 1: The EUT has three antennas.

For 2.4GHz function:

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

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

For 5GHz function:

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

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

For BT function:

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

Ant. 2 (port 2) could transmit/receive.

For Lora function:

For Lora mode (1TX/1RX)

Ant. 3 (port 1) could transmit/receive.

Note 2: Directional gain information

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

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.856	0.68	2.139m	500
BT-LE(2Mbps)	0.58	2.37	1.083m	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	Lego Lin	20.6~23.5°C / 53~58%	14/Jul/2026
RF Conducted	TH07-HY	Yulin Chen	24.2~24.5°C / 55~59%	15/Jul/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			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH25-HY	Andy Wang	22.2~24.3°C / 54~57%	09/Jun/2026~02/Jul/2026
Radiated (Co-location)	03CH25-HY	Rian Chung	21.6~24.3°C / 54~58%	09/Jul/2026~10/Jul/2026

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	PuTTY Release 0.72
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Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

2.2 The Worst Case Measurement Configuration

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

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz + LORA
2	WLAN 5GHz + LORA
Refer to Sporton Test Report No.: FA660507 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
AC Adapter	Brand Name	PYS High-Tech Co., LTD	Model Name	PYS-12UP120100U
	Manufacturer	PYS High-Tech Co., LTD	SN	-
	Power Rating	I/P: 100-240Vac, 0.5 A, O/P: 12Vdc, 1 A		
	Power Cord	3 meter, non-shielded cable, w/o ferrite core		

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

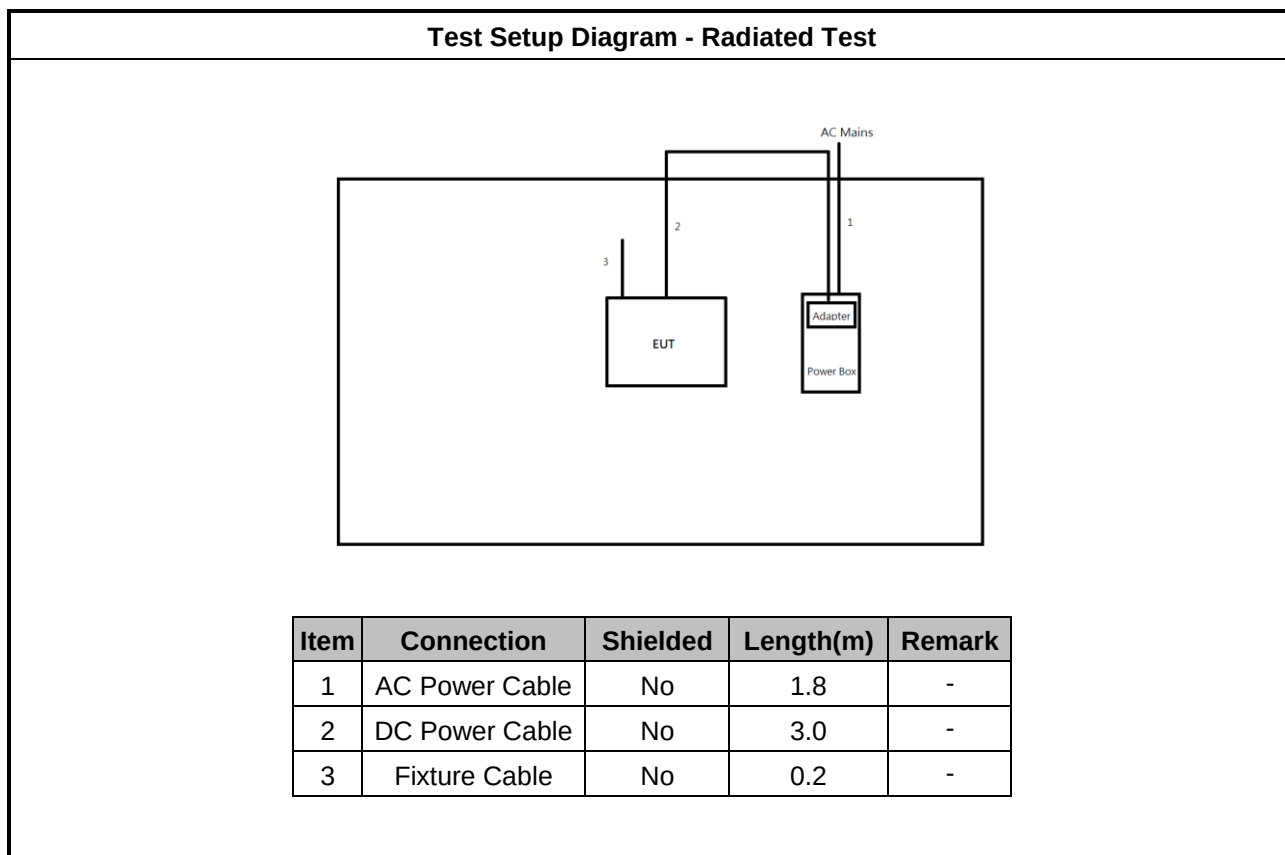
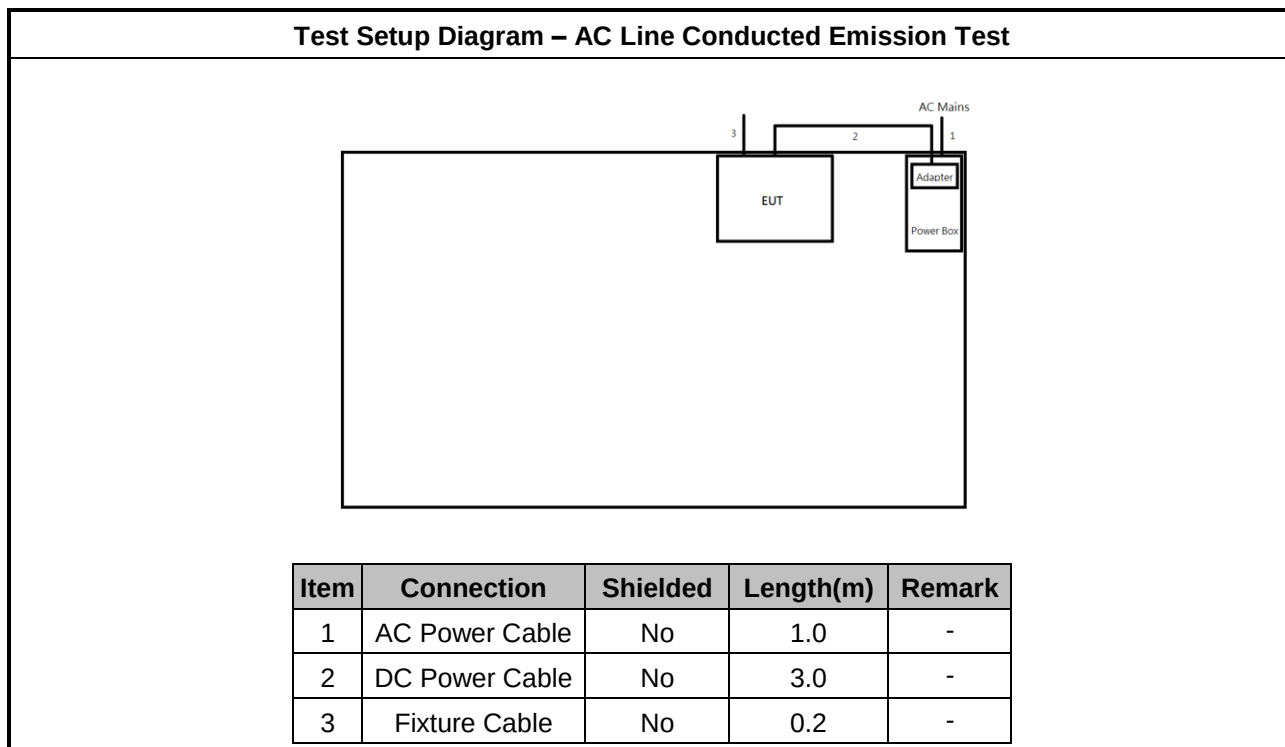
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture Cable	-	-	-	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 Cable	-	-	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture Cable	-	-	-	Provided by Customer

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

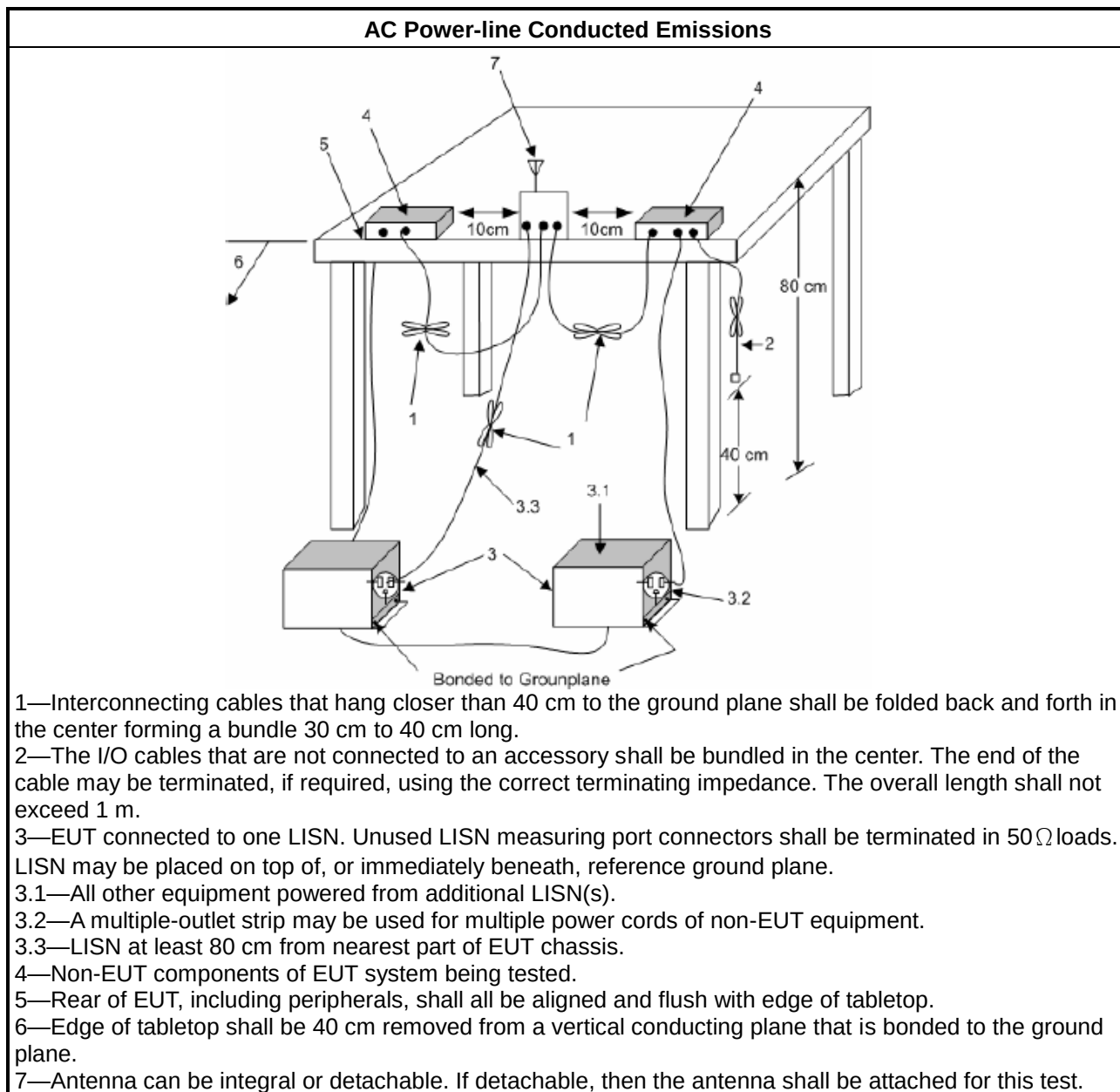
Test Method
Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

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.

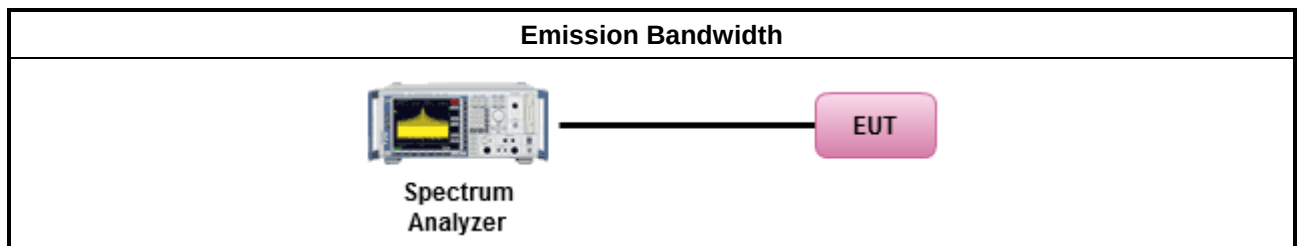
3.2.2 Measuring Instruments

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.	

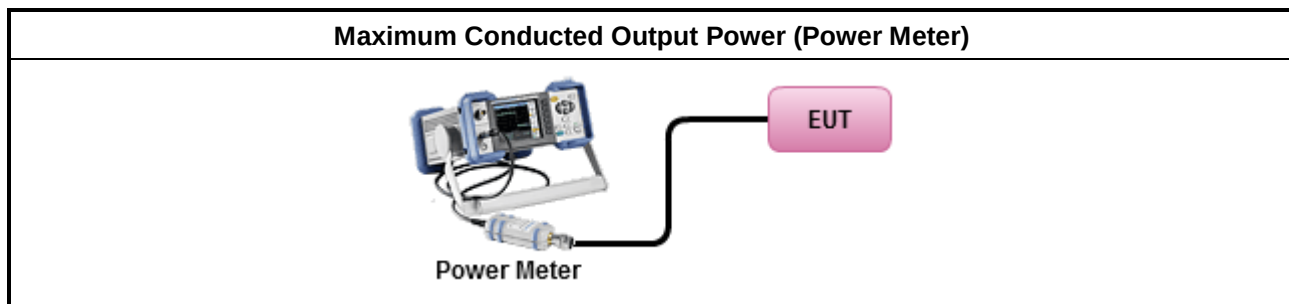
3.3.2 Measuring Instruments

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

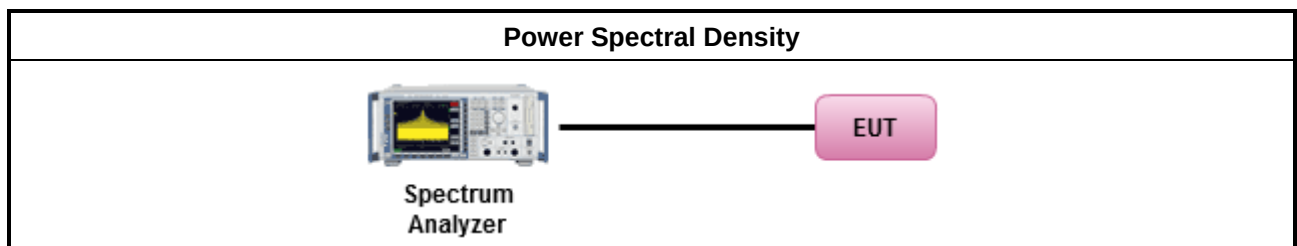
3.4.2 Measuring Instruments

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.	

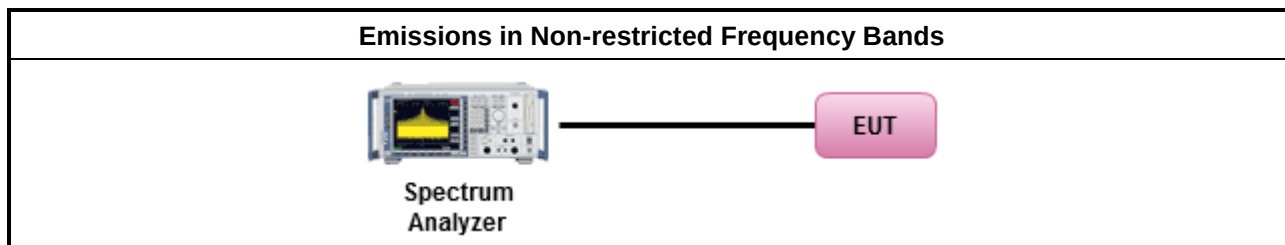
3.5.2 Measuring Instruments

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

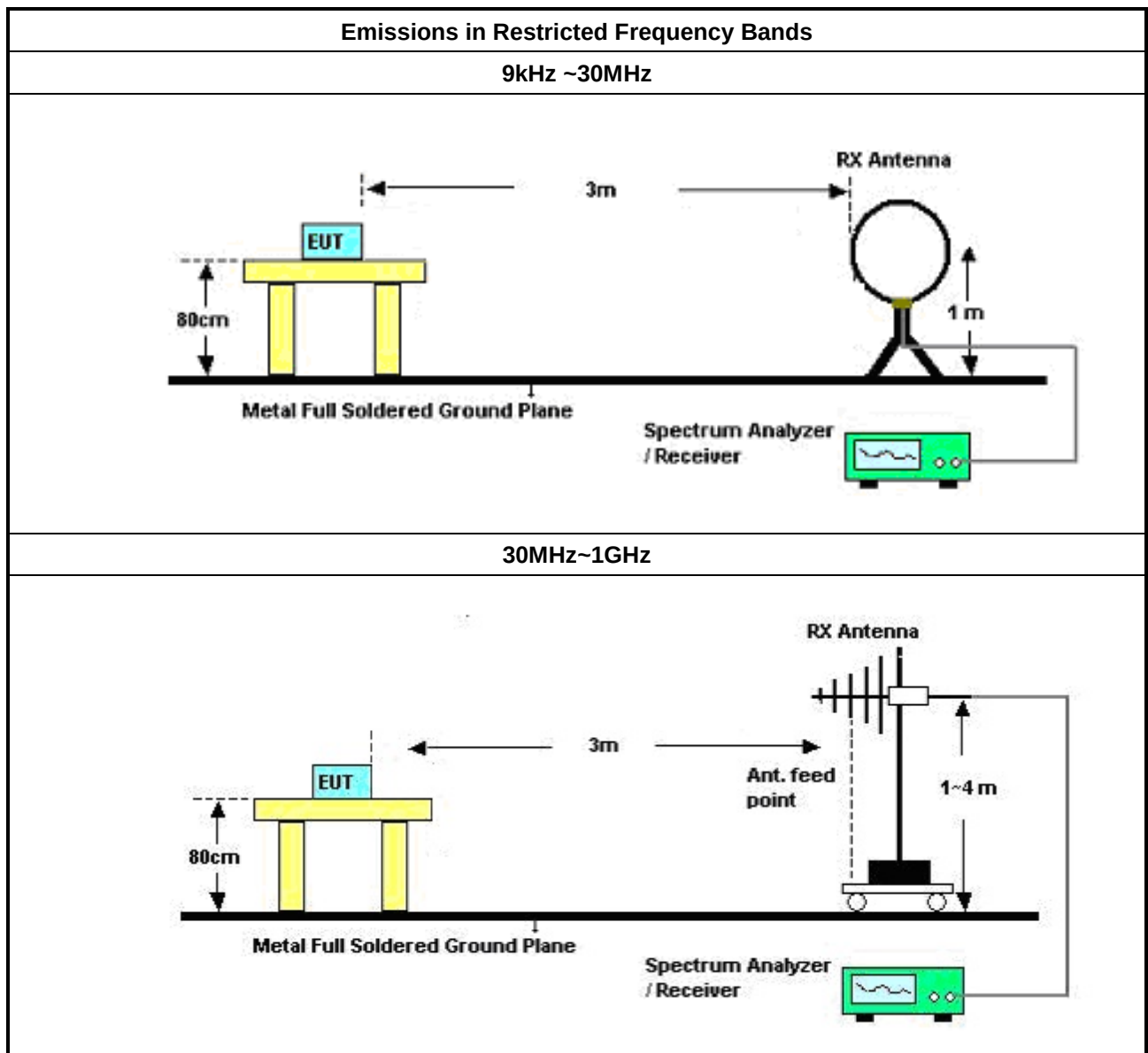
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted 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.

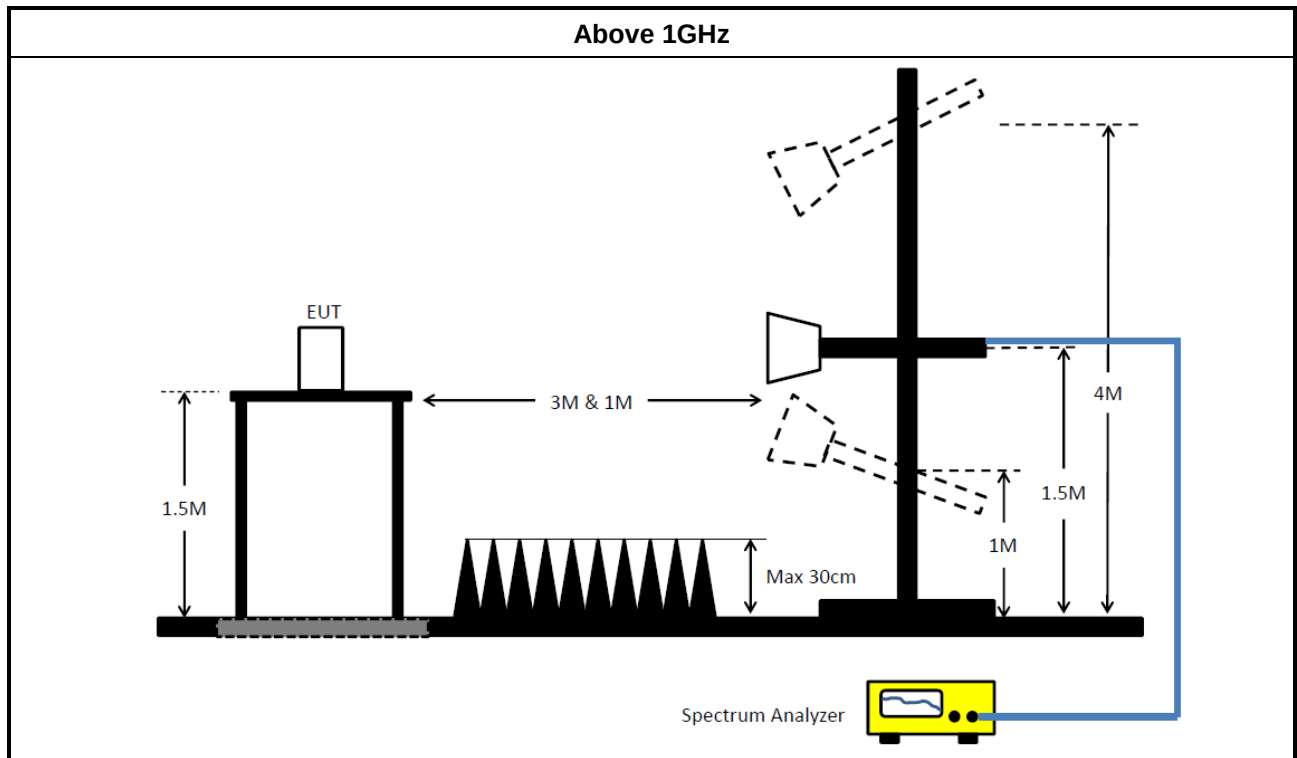
3.6.4 Measurement Results Calculation

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	05/Jun/2026	04/Jun/2027
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	9 kHz~200MHz	25/Feb/2026	24/Feb/2027
Pulse Limiter	SCHWARZBECK	VTSD 9561F-F	9561-F041	9kHz ~ 30MHz	27/Oct/2025	26/Oct/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
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	29/Oct/2025	28/Oct/2026
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	V5.11.28	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH25-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	30MHz~1GHz 3m	18/Jul/2025	17/Jul/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	07/Aug/2025	06/Aug/2026
ESR7 EMI Test Receiver	ROHDE & SCHWARZ	ESR7	102956	9kHz~3.6GHz	26/Aug/2025	25/Aug/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	19/Nov/2025	18/Nov/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2026	15/Mar/2027
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	22/May/2026	21/May/2027
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	02/Jul/2025	01/Jul/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1534	1GHz~18GHz	11/Mar/2026	10/Mar/2027
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	22/Apr/2026	21/Apr/2027
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	10/Feb/2026	09/Feb/2027
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	20/May/2026	19/May/2027
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	20/May/2026	19/May/2027
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	27/Apr/2026	26/Apr/2027
SENSE-15247-FS	Sporton	V5.11.24	NA	NA	NA	NA

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	07/Aug/2025	06/Aug/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	19/Nov/2025	18/Nov/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	29/Jun/2026	28/Jun/2027
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	10/Feb/2026	09/Feb/2027
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	20/May/2026	19/May/2027
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	27/Apr/2026	26/Apr/2027
SENSE-EMI	Sporton	V5.11.6	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

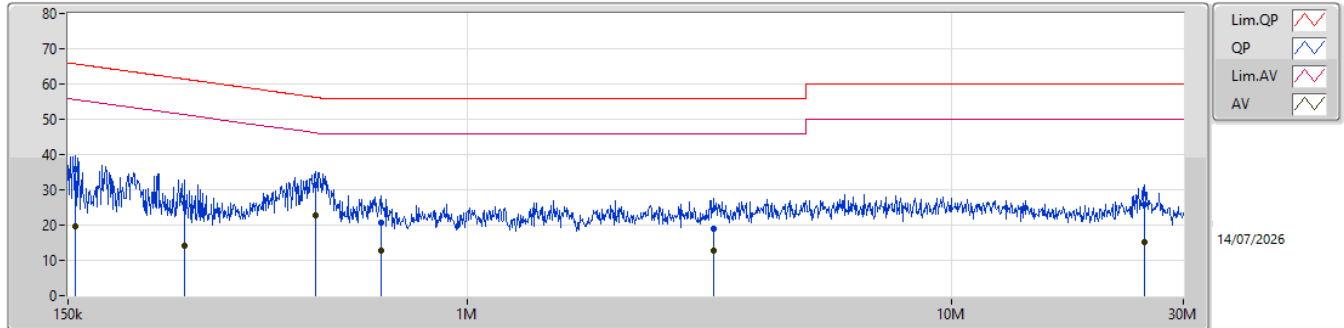
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	498.81k	35.31	46.02	-10.71	Neutral

Result

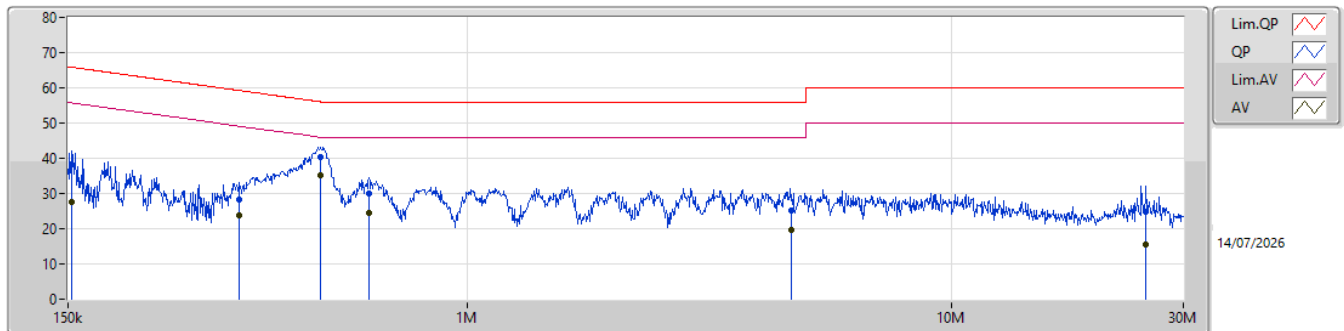
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	155.49k	35.80	65.69	-29.89	Line
Mode 1	Pass	AV	155.49k	19.68	55.69	-36.01	Line
Mode 1	Pass	QP	260.22k	26.22	61.43	-35.21	Line
Mode 1	Pass	AV	260.22k	14.02	51.43	-37.41	Line
Mode 1	Pass	QP	487.01k	31.37	56.21	-24.84	Line
Mode 1	Pass	AV	487.01k	22.90	46.21	-23.31	Line
Mode 1	Pass	QP	662.27k	20.85	56.00	-35.15	Line
Mode 1	Pass	AV	662.27k	12.67	46.00	-33.33	Line
Mode 1	Pass	QP	3.23M	19.10	56.00	-36.90	Line
Mode 1	Pass	AV	3.23M	12.73	46.00	-33.27	Line
Mode 1	Pass	QP	24.95M	25.98	60.00	-34.02	Line
Mode 1	Pass	AV	24.95M	15.32	50.00	-34.68	Line
Mode 1	Pass	QP	152.41k	38.35	65.87	-27.52	Neutral
Mode 1	Pass	AV	152.41k	27.71	55.87	-28.16	Neutral
Mode 1	Pass	QP	338.66k	28.30	59.23	-30.93	Neutral
Mode 1	Pass	AV	338.66k	23.88	49.23	-25.35	Neutral
Mode 1	Pass	QP	498.81k	40.26	56.02	-15.76	Neutral
Mode 1	Pass	AV	498.81k	35.31	46.02	-10.71	Neutral
Mode 1	Pass	QP	626.27k	30.12	56.00	-25.88	Neutral
Mode 1	Pass	AV	626.27k	24.63	46.00	-21.37	Neutral
Mode 1	Pass	QP	4.65M	25.30	56.00	-30.70	Neutral
Mode 1	Pass	AV	4.65M	19.72	46.00	-26.28	Neutral
Mode 1	Pass	QP	25.15M	24.98	60.00	-35.02	Neutral
Mode 1	Pass	AV	25.15M	15.45	50.00	-34.55	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	155.49k	35.80	65.69	-29.89	19.79	Line	16.01	9.64	0.17	9.98								
AV	155.49k	19.68	55.69	-36.01	19.79	Line	-0.11	9.64	0.17	9.98								
QP	260.22k	26.22	61.43	-35.21	19.77	Line	6.45	9.64	0.12	10.01								
AV	260.22k	14.02	51.43	-37.41	19.77	Line	-5.75	9.64	0.12	10.01								
QP	487.01k	31.37	56.21	-24.84	19.74	Line	11.63	9.63	0.09	10.02								
AV	487.01k	22.90	46.21	-23.31	19.74	Line	3.16	9.63	0.09	10.02								
QP	662.27k	20.85	56.00	-35.15	19.76	Line	1.09	9.64	0.08	10.04								
AV	662.27k	12.67	46.00	-33.33	19.76	Line	-7.09	9.64	0.08	10.04								
QP	3.23M	19.10	56.00	-36.90	19.78	Line	-0.68	9.66	0.10	10.02								
AV	3.23M	12.73	46.00	-33.27	19.78	Line	-7.05	9.66	0.10	10.02								
QP	24.95M	25.98	60.00	-34.02	19.83	Line	6.15	9.52	0.44	9.87								
AV	24.95M	15.32	50.00	-34.68	19.83	Line	-4.51	9.52	0.44	9.87								

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	152.41k	38.35	65.87	-27.52	19.79	Neutral	18.56	9.64	0.17	9.98								
AV	152.41k	27.71	55.87	-28.16	19.79	Neutral	7.92	9.64	0.17	9.98								
QP	338.66k	28.30	59.23	-30.93	19.74	Neutral	8.56	9.63	0.11	10.00								
AV	338.66k	23.88	49.23	-25.35	19.74	Neutral	4.14	9.63	0.11	10.00								
QP	498.81k	40.26	56.02	-15.76	19.74	Neutral	20.52	9.63	0.09	10.02								
AV	498.81k	35.31	46.02	-10.71	19.74	Neutral	15.57	9.63	0.09	10.02								
QP	626.27k	30.12	56.00	-25.88	19.76	Neutral	10.36	9.63	0.09	10.04								
AV	626.27k	24.63	46.00	-21.37	19.76	Neutral	4.87	9.63	0.09	10.04								
QP	4.65M	25.30	56.00	-30.70	19.85	Neutral	5.45	9.67	0.15	10.03								
AV	4.65M	19.72	46.00	-26.28	19.85	Neutral	-0.13	9.67	0.15	10.03								
QP	25.15M	24.98	60.00	-35.02	20.00	Neutral	4.98	9.69	0.44	9.87								
AV	25.15M	15.45	50.00	-34.55	20.00	Neutral	-4.55	9.69	0.44	9.87								



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)	683.75k	1.044M	1M04F1D	628.75k	1.031M
BT-LE(2Mbps)	1.298M	2.074M	2M07F1D	610k	2.044M

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

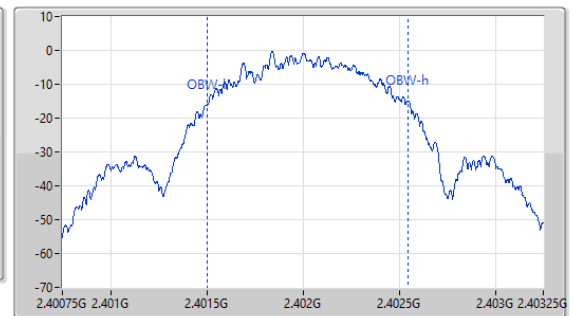
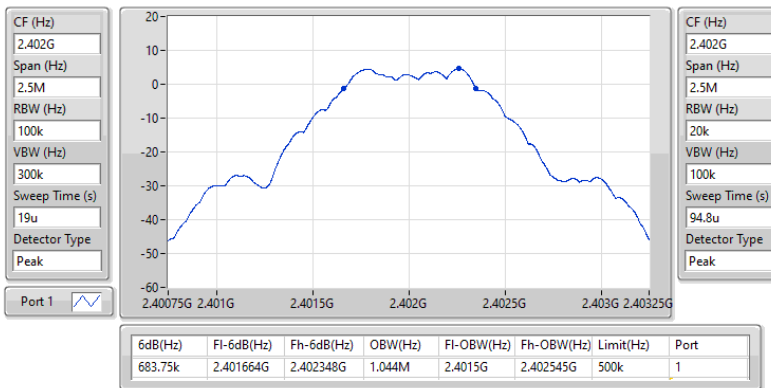
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	683.75k	1.044M
2440MHz	Pass	500k	671.25k	1.034M
2480MHz	Pass	500k	628.75k	1.031M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	610k	2.074M
2440MHz	Pass	500k	907.5k	2.044M
2480MHz	Pass	500k	1.298M	2.069M

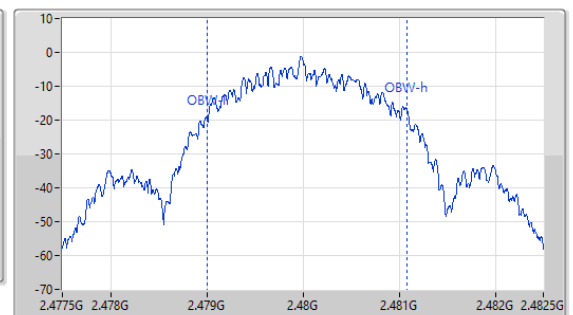
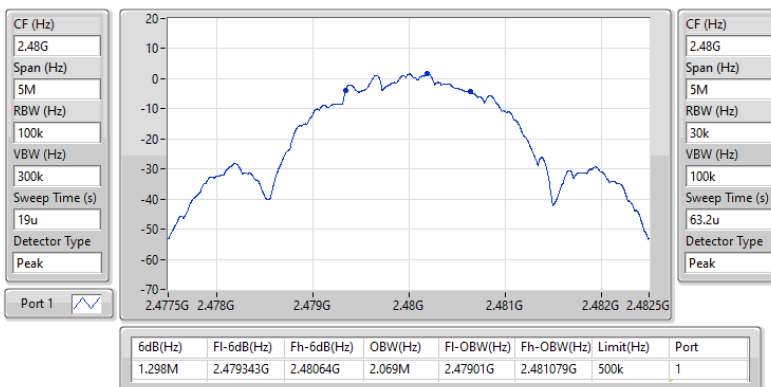
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2402MHz

15/07/2026


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2480MHz

15/07/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	5.92	0.00391
BT-LE(2Mbps)	5.85	0.00385

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.89	5.92	30.00
2440MHz	Pass	3.89	4.90	30.00
2480MHz	Pass	3.89	4.75	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.89	5.85	30.00
2440MHz	Pass	3.89	4.81	30.00
2480MHz	Pass	3.89	4.69	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.18
BT-LE(2Mbps)	-11.76

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.89	-9.18	8.00
2440MHz	Pass	3.89	-11.76	8.00
2480MHz	Pass	3.89	-10.04	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.89	-11.76	8.00
2440MHz	Pass	3.89	-13.79	8.00
2480MHz	Pass	3.89	-13.26	8.00

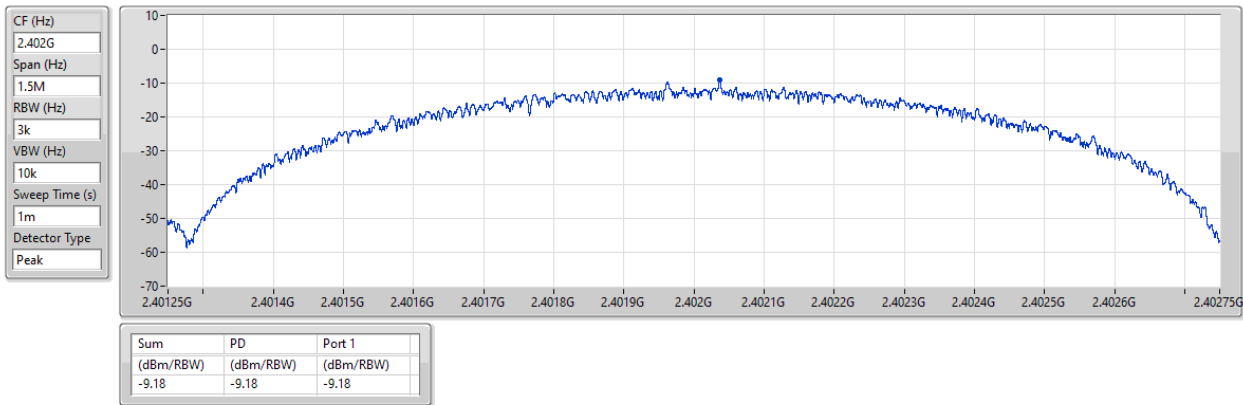
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

15/07/2026

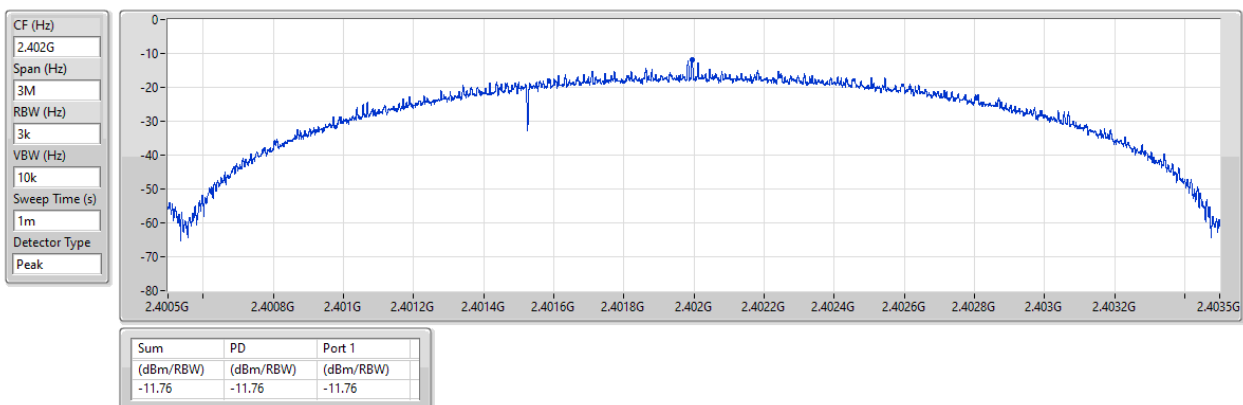


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

15/07/2026



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	2.40217G	5.23	-24.77	1.94995G	-54.04	2.39204G	-48.24	2.4G	-49.46	2.50174G	-53.39	16.31916G	-41.62	1
BT-LE(2Mbps)	Pass	2.402G	4.32	-25.68	1.75138G	-53.79	2.4G	-28.62	2.4G	-27.03	2.50334G	-53.40	21.49898G	-41.07	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	5.23	-24.77	1.94995G	-54.04	2.39204G	-48.24	2.4G	-49.46	2.50174G	-53.39	16.31916G	-41.62	1
2440MHz	Pass	2.40217G	5.23	-24.77	1.62918G	-53.87	2.39988G	-50.85	2.4G	-51.04	2.50254G	-53.09	21.46524G	-41.24	1
2480MHz	Pass	2.40217G	5.23	-24.77	2.30245G	-53.92	2.39688G	-52.89	2.4G	-54.11	2.50286G	-52.62	24.24918G	-42.02	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	4.32	-25.68	1.75138G	-53.79	2.4G	-28.62	2.4G	-27.03	2.50334G	-53.40	21.49898G	-41.07	1
2440MHz	Pass	2.402G	4.32	-25.68	2.13795G	-54.64	2.3996G	-52.15	2.4G	-51.89	2.5031G	-53.53	24.48539G	-42.03	1
2480MHz	Pass	2.402G	4.32	-25.68	2.30833G	-54.08	2.39612G	-53.28	2.4G	-54.46	2.50002G	-52.58	24.15076G	-41.36	1

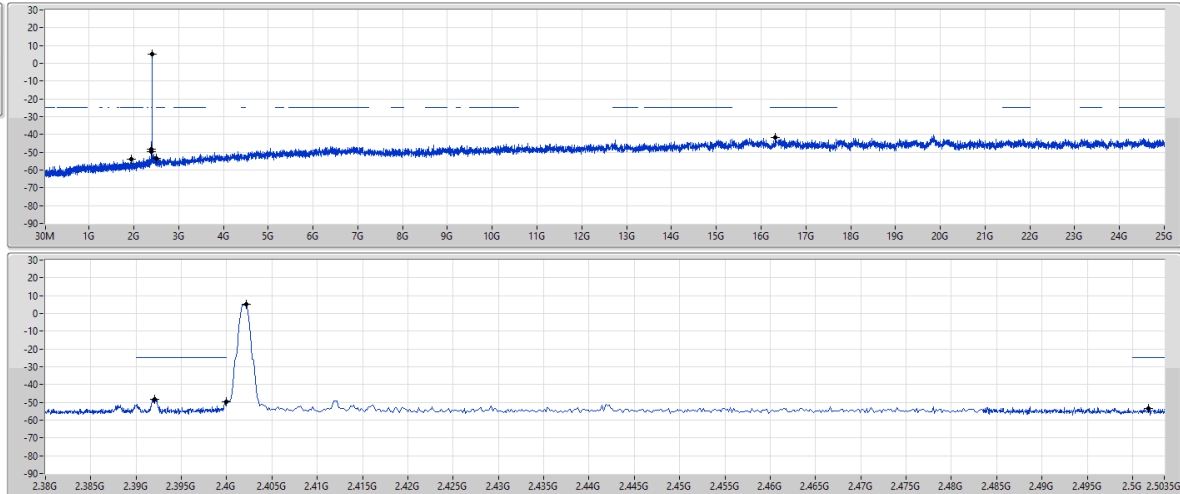
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

15/07/2026

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40217G	5.23	-24.77	1.94995G	-54.04	2.39204G	-48.24	2.4G	-49.46	2.50174G	-53.39	16.31916G	-41.62	1

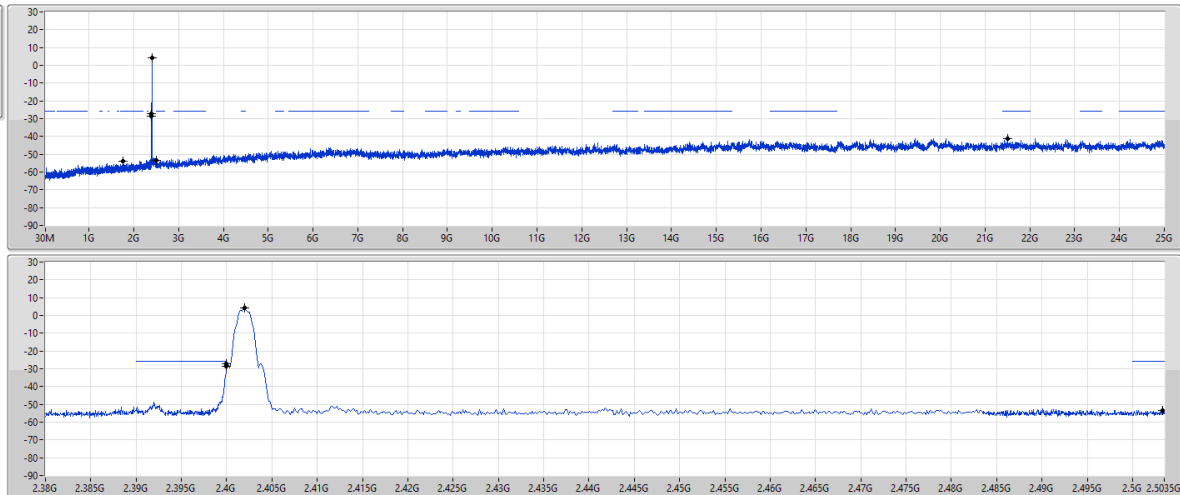
2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

15/07/2026

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	4.32	-25.68	1.75138G	-53.79	2.4G	-28.62	2.4G	-27.03	2.50334G	-53.40	21.49898G	-41.07	1



Summary

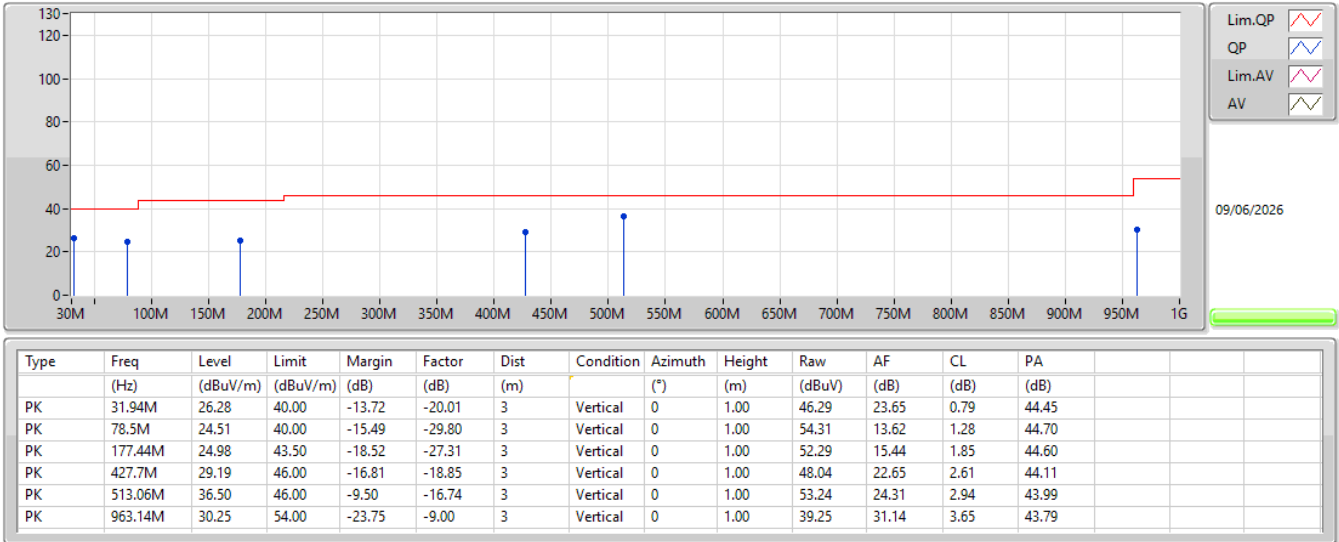
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	513.06M	36.50	46.00	-9.50	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	31.94M	26.28	40.00	-13.72	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	78.5M	24.51	40.00	-15.49	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	177.44M	24.98	43.50	-18.52	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	427.7M	29.19	46.00	-16.81	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	513.06M	36.50	46.00	-9.50	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	963.14M	30.25	54.00	-23.75	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	39.7M	24.99	40.00	-15.01	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	103.72M	23.03	43.50	-20.47	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	179.38M	26.18	43.50	-17.32	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	222.06M	22.15	46.00	-23.85	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	431.58M	25.13	46.00	-20.87	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	515M	25.54	46.00	-20.46	3	Horizontal	360	1.00

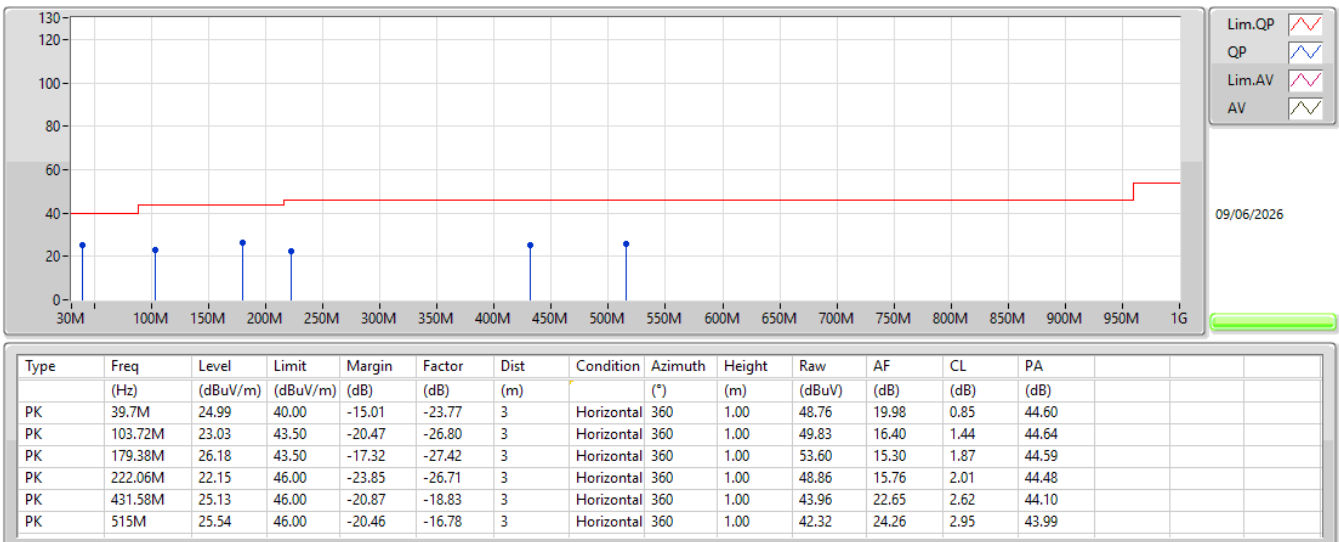
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter



2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter





Summary

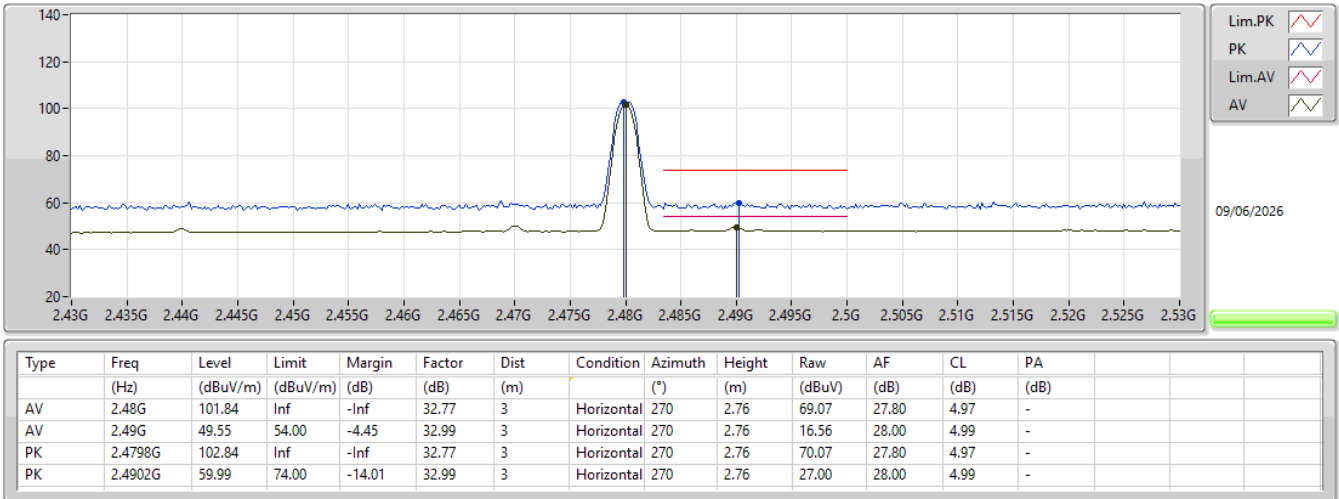
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.49G	49.55	54.00	-4.45	3	Horizontal	270	2.76
BT-LE(2Mbps)	Pass	AV	2.4898G	49.14	54.00	-4.86	3	Horizontal	270	2.77

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	2.3618G	48.62	54.00	-5.38	3	Horizontal	279	1.19
2402MHz	Pass	AV	2.402G	104.15	Inf	-Inf	3	Horizontal	279	1.19
2402MHz	Pass	PK	2.39G	59.28	74.00	-14.72	3	Horizontal	279	1.19
2402MHz	Pass	PK	2.4018G	105.17	Inf	-Inf	3	Horizontal	279	1.19
2402MHz	Pass	AV	4.80428G	30.76	54.00	-23.24	3	Vertical	205	2.18
2402MHz	Pass	PK	4.80888G	42.44	74.00	-31.56	3	Vertical	205	2.18
2402MHz	Pass	AV	4.79416G	30.31	54.00	-23.69	3	Horizontal	19	1.50
2402MHz	Pass	PK	4.80992G	42.45	74.00	-31.55	3	Horizontal	19	1.50
2440MHz	Pass	AV	2.3864G	47.17	54.00	-6.83	3	Horizontal	265	2.33
2440MHz	Pass	AV	2.44G	103.20	Inf	-Inf	3	Horizontal	265	2.33
2440MHz	Pass	AV	2.4908G	47.91	54.00	-6.09	3	Horizontal	265	2.33
2440MHz	Pass	PK	2.382G	58.83	74.00	-15.17	3	Horizontal	265	2.33
2440MHz	Pass	PK	2.4396G	104.18	Inf	-Inf	3	Horizontal	265	2.33
2440MHz	Pass	PK	2.4912G	58.90	74.00	-15.10	3	Horizontal	265	2.33
2440MHz	Pass	AV	4.88968G	30.73	54.00	-23.27	3	Vertical	355	1.50
2440MHz	Pass	PK	4.88072G	42.70	74.00	-31.30	3	Vertical	355	1.50
2440MHz	Pass	AV	4.88872G	31.04	54.00	-22.96	3	Horizontal	138	1.23
2440MHz	Pass	PK	4.88984G	43.11	74.00	-30.89	3	Horizontal	138	1.23
2480MHz	Pass	AV	2.48G	101.84	Inf	-Inf	3	Horizontal	270	2.76
2480MHz	Pass	AV	2.49G	49.55	54.00	-4.45	3	Horizontal	270	2.76
2480MHz	Pass	PK	2.4798G	102.84	Inf	-Inf	3	Horizontal	270	2.76
2480MHz	Pass	PK	2.4902G	59.99	74.00	-14.01	3	Horizontal	270	2.76
2480MHz	Pass	AV	4.95432G	31.51	54.00	-22.49	3	Vertical	115	2.77
2480MHz	Pass	PK	4.96848G	43.30	74.00	-30.70	3	Vertical	115	2.77
2480MHz	Pass	AV	4.96788G	31.56	54.00	-22.44	3	Horizontal	80	1.83
2480MHz	Pass	PK	4.9542G	43.58	74.00	-30.42	3	Horizontal	80	1.83
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3622G	48.30	54.00	-5.70	3	Horizontal	270	1.19
2402MHz	Pass	AV	2.402G	101.88	Inf	-Inf	3	Horizontal	270	1.19
2402MHz	Pass	PK	2.3764G	58.99	74.00	-15.01	3	Horizontal	270	1.19
2402MHz	Pass	PK	2.4016G	104.51	Inf	-Inf	3	Horizontal	270	1.19
2402MHz	Pass	AV	4.80269G	30.82	54.00	-23.18	3	Vertical	110	1.50
2402MHz	Pass	PK	4.80517G	42.94	74.00	-31.06	3	Vertical	110	1.50
2402MHz	Pass	AV	4.80255G	30.89	54.00	-23.11	3	Horizontal	341	1.19
2402MHz	Pass	PK	4.80263G	42.74	74.00	-31.26	3	Horizontal	341	1.19
2440MHz	Pass	AV	2.3804G	47.54	54.00	-6.46	3	Horizontal	267	2.32
2440MHz	Pass	AV	2.44G	101.64	Inf	-Inf	3	Horizontal	267	2.32
2440MHz	Pass	AV	2.4856G	48.17	54.00	-5.83	3	Horizontal	267	2.32
2440MHz	Pass	PK	2.3616G	59.55	74.00	-14.45	3	Horizontal	267	2.32
2440MHz	Pass	PK	2.44G	104.28	Inf	-Inf	3	Horizontal	267	2.32
2440MHz	Pass	PK	2.4928G	59.92	74.00	-14.08	3	Horizontal	267	2.32
2440MHz	Pass	AV	4.88034G	31.00	54.00	-23.00	3	Vertical	231	1.50
2440MHz	Pass	PK	4.88075G	42.67	74.00	-31.33	3	Vertical	231	1.50
2440MHz	Pass	AV	4.88098G	31.10	54.00	-22.90	3	Horizontal	250	2.77
2440MHz	Pass	PK	4.88083G	43.17	74.00	-30.83	3	Horizontal	250	2.77
2480MHz	Pass	AV	2.48G	100.61	Inf	-Inf	3	Horizontal	270	2.77
2480MHz	Pass	AV	2.4898G	49.14	54.00	-4.86	3	Horizontal	270	2.77
2480MHz	Pass	PK	2.48G	103.30	Inf	-Inf	3	Horizontal	270	2.77
2480MHz	Pass	PK	2.4896G	59.96	74.00	-14.04	3	Horizontal	270	2.77
2480MHz	Pass	AV	4.95815G	31.43	54.00	-22.57	3	Vertical	259	1.50
2480MHz	Pass	PK	4.96119G	43.46	74.00	-30.54	3	Vertical	259	1.50
2480MHz	Pass	AV	4.95978G	31.65	54.00	-22.35	3	Horizontal	247	1.50
2480MHz	Pass	PK	4.95873G	43.31	74.00	-30.69	3	Horizontal	247	1.50

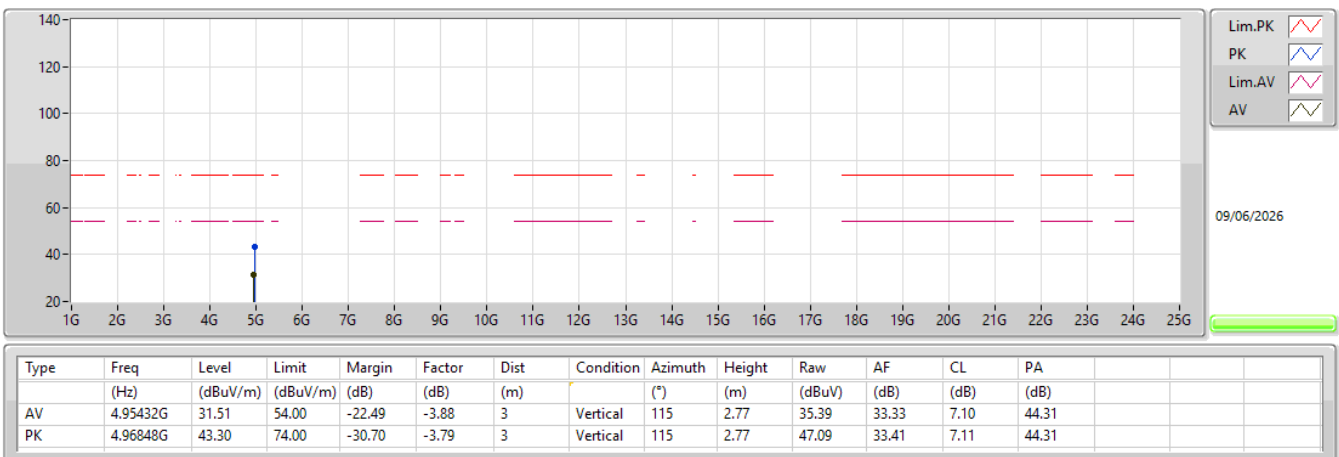
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2480MHz_TX



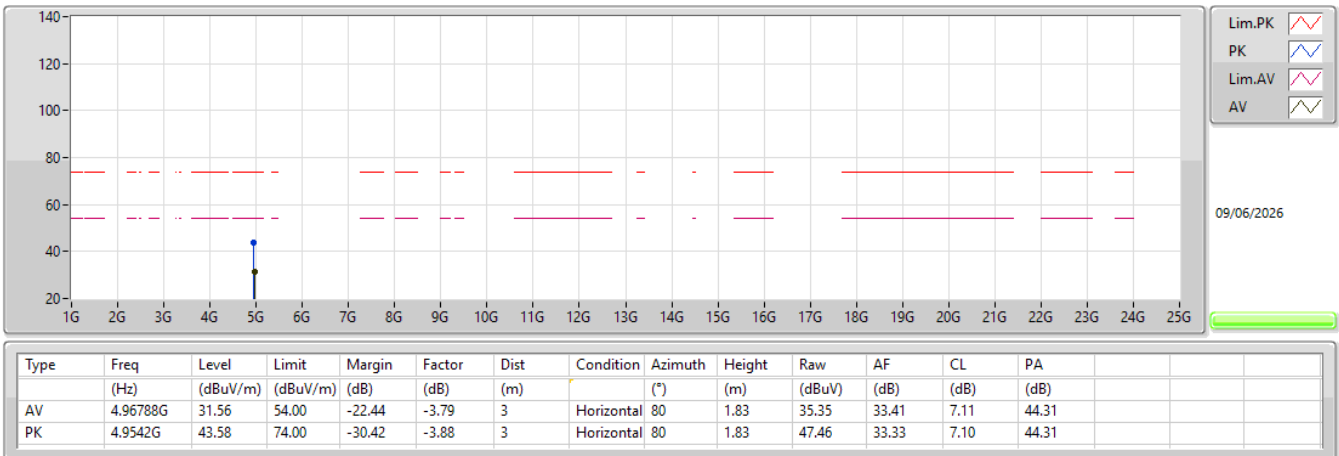
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2480MHz_TX



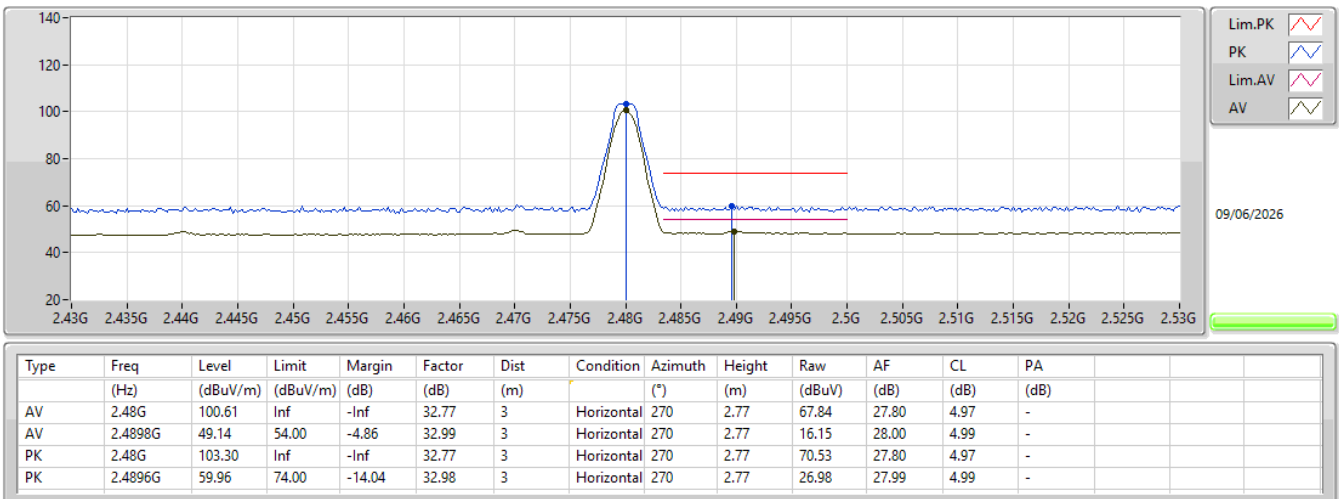
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



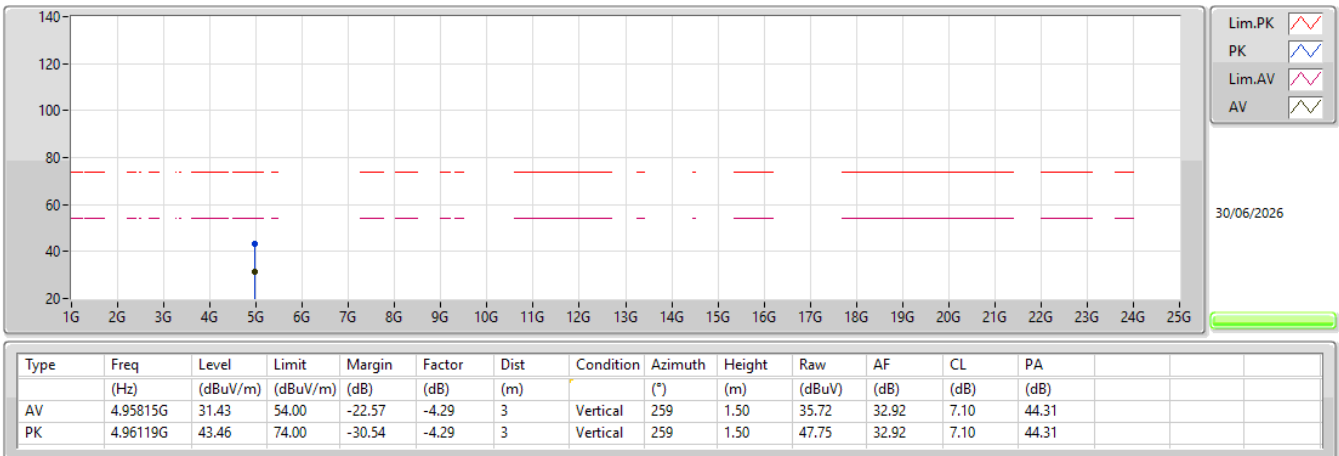
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2480MHz_TX



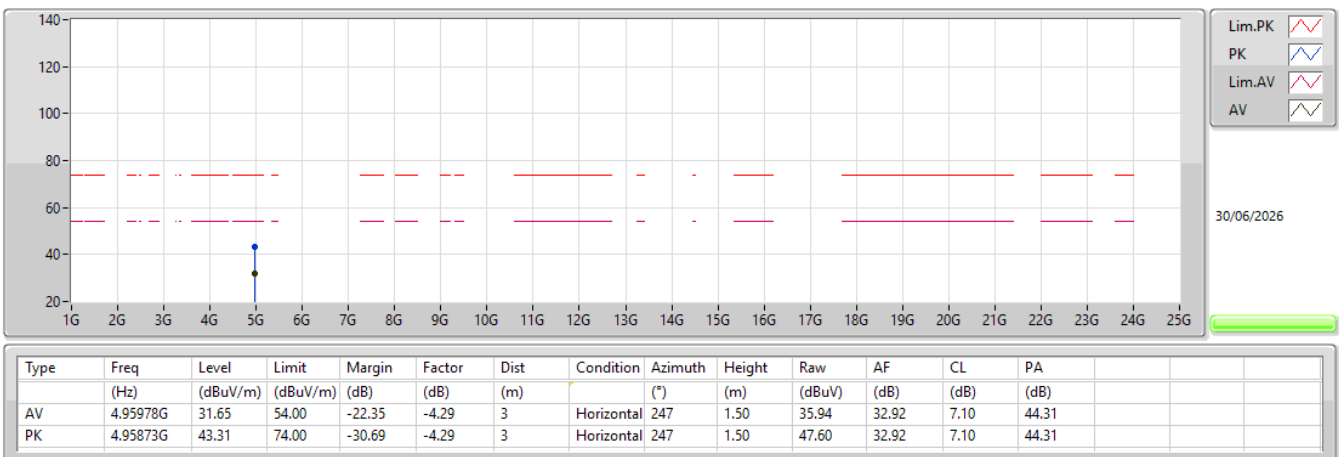
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX





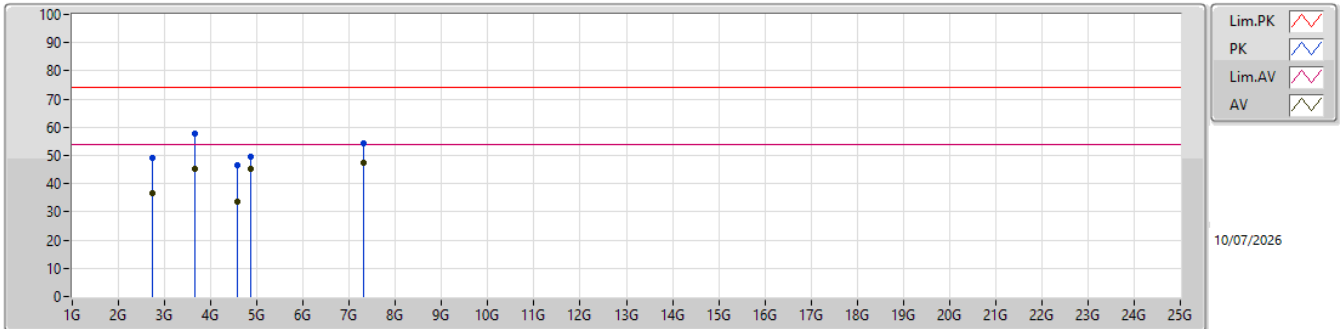
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.31368G	48.38	54.00	-5.62	Horizontal
Mode 2	Pass	AV	3.65943G	45.67	54.00	-8.33	Horizontal

Result

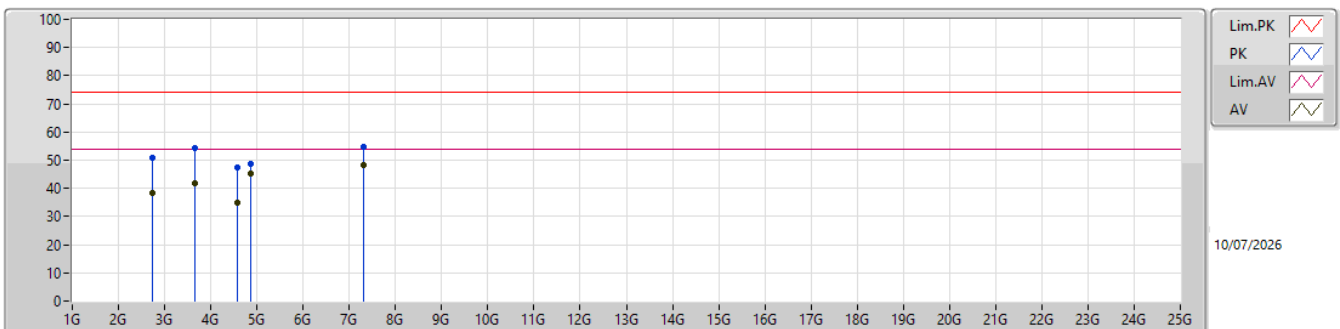
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	2.74458G	36.49	54.00	-17.51	3	Vertical	150	1.50
Mode 1	Pass	AV	3.65952G	45.08	54.00	-8.92	3	Vertical	62	2.76
Mode 1	Pass	AV	4.57454G	33.62	54.00	-20.38	3	Vertical	40	2.61
Mode 1	Pass	AV	4.87396G	45.35	54.00	-8.65	3	Vertical	297	1.01
Mode 1	Pass	AV	7.30872G	47.49	54.00	-6.51	3	Vertical	349	1.01
Mode 1	Pass	PK	2.74458G	49.26	74.00	-24.74	3	Vertical	150	1.50
Mode 1	Pass	PK	3.65952G	57.85	74.00	-16.15	3	Vertical	62	2.76
Mode 1	Pass	PK	4.57454G	46.39	74.00	-27.61	3	Vertical	40	2.61
Mode 1	Pass	PK	4.87392G	49.37	74.00	-24.63	3	Vertical	297	1.01
Mode 1	Pass	PK	7.31012G	54.25	74.00	-19.75	3	Vertical	349	1.01
Mode 1	Pass	AV	2.74478G	38.19	54.00	-15.81	3	Horizontal	355	2.70
Mode 1	Pass	AV	3.65968G	41.71	54.00	-12.29	3	Horizontal	34	1.20
Mode 1	Pass	AV	4.57458G	34.80	54.00	-19.20	3	Horizontal	291	1.01
Mode 1	Pass	AV	4.874G	45.15	54.00	-8.85	3	Horizontal	99	344
Mode 1	Pass	AV	7.31368G	48.38	54.00	-5.62	3	Horizontal	11	1.00
Mode 1	Pass	PK	2.74478G	50.96	74.00	-23.04	3	Horizontal	355	2.70
Mode 1	Pass	PK	3.65968G	54.48	74.00	-19.52	3	Horizontal	34	1.20
Mode 1	Pass	PK	4.57458G	47.57	74.00	-26.43	3	Horizontal	291	1.01
Mode 1	Pass	PK	4.87396G	48.89	74.00	-25.11	3	Horizontal	99	344
Mode 1	Pass	PK	7.31276G	54.82	74.00	-19.18	3	Horizontal	11	1.00
Mode 2	Pass	AV	2.74453G	41.52	54.00	-12.48	3	Vertical	333	1.01
Mode 2	Pass	AV	3.65968G	44.52	54.00	-9.48	3	Vertical	69	1.01
Mode 2	Pass	AV	4.57479G	35.32	54.00	-18.68	3	Vertical	121	1.01
Mode 2	Pass	PK	2.74453G	54.29	74.00	-19.71	3	Vertical	333	1.01
Mode 2	Pass	PK	3.65968G	57.29	74.00	-16.71	3	Vertical	69	1.01
Mode 2	Pass	PK	4.57479G	48.09	74.00	-25.91	3	Vertical	121	1.01
Mode 2	Pass	PK	10.36293G	57.37	68.20	-10.83	3	Vertical	4	1.14
Mode 2	Pass	AV	2.74483G	39.79	54.00	-14.21	3	Horizontal	99	1.00
Mode 2	Pass	AV	3.65943G	45.67	54.00	-8.33	3	Horizontal	160	1.07
Mode 2	Pass	AV	4.57454G	39.40	54.00	-14.60	3	Horizontal	153	2.81
Mode 2	Pass	PK	2.74483G	52.56	74.00	-21.44	3	Horizontal	99	1.00
Mode 2	Pass	PK	3.65943G	58.44	74.00	-15.56	3	Horizontal	160	1.07
Mode 2	Pass	PK	4.57454G	52.17	74.00	-21.83	3	Horizontal	153	2.81
Mode 2	Pass	PK	10.35807G	56.03	68.20	-12.17	3	Horizontal	173	1.22

Radiated Emissions above 1GHz_Mode 1



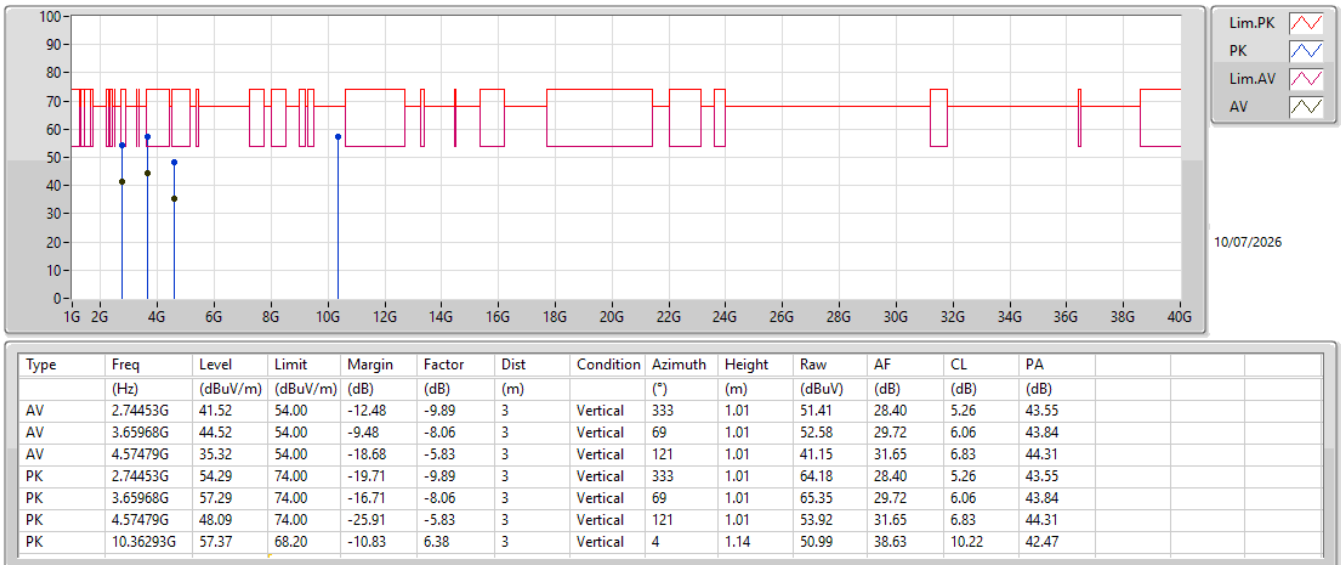
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74458G	36.49	54.00	-17.51	-9.89	3	Vertical	150	1.50	46.38	28.40	5.26	43.55
AV	3.65952G	45.08	54.00	-8.92	-8.06	3	Vertical	62	2.76	53.14	29.72	6.06	43.84
AV	4.57454G	33.62	54.00	-20.38	-5.83	3	Vertical	40	2.61	39.45	31.65	6.83	44.31
AV	4.87396G	45.35	54.00	-8.65	-4.42	3	Vertical	297	1.01	49.77	32.85	7.04	44.31
AV	7.30872G	47.49	54.00	-6.51	1.66	3	Vertical	349	1.01	45.83	37.03	8.83	44.20
PK	2.74458G	49.26	74.00	-24.74	-9.89	3	Vertical	150	1.50	59.15	28.40	5.26	43.55
PK	3.65952G	57.85	74.00	-16.15	-8.06	3	Vertical	62	2.76	65.91	29.72	6.06	43.84
PK	4.57454G	46.39	74.00	-27.61	-5.83	3	Vertical	40	2.61	52.22	31.65	6.83	44.31
PK	4.87392G	49.37	74.00	-24.63	-4.42	3	Vertical	297	1.01	53.79	32.85	7.04	44.31
PK	7.31012G	54.25	74.00	-19.75	1.65	3	Vertical	349	1.01	52.60	37.02	8.83	44.20

Radiated Emissions above 1GHz_Mode 1



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	2.74478G	38.19	54.00	-15.81	-9.89	3	Horizontal	355	2.70	48.08	28.40	5.26	43.55
AV	3.65968G	41.71	54.00	-12.29	-8.06	3	Horizontal	34	1.20	49.77	29.72	6.06	43.84
AV	4.57458G	34.80	54.00	-19.20	-5.83	3	Horizontal	291	1.01	40.63	31.65	6.83	44.31
AV	4.874G	45.15	54.00	-8.85	-4.42	3	Horizontal	99	344	49.57	32.85	7.04	44.31
AV	7.31368G	48.38	54.00	-5.62	1.62	3	Horizontal	11	1.00	46.76	36.99	8.83	44.20
PK	2.74478G	50.96	74.00	-23.04	-9.89	3	Horizontal	355	2.70	60.85	28.40	5.26	43.55
PK	3.65968G	54.48	74.00	-19.52	-8.06	3	Horizontal	34	1.20	62.54	29.72	6.06	43.84
PK	4.57458G	47.57	74.00	-26.43	-5.83	3	Horizontal	291	1.01	53.40	31.65	6.83	44.31
PK	4.87396G	48.89	74.00	-25.11	-4.42	3	Horizontal	99	344	53.31	32.85	7.04	44.31
PK	7.31276G	54.82	74.00	-19.18	1.63	3	Horizontal	11	1.00	53.19	37.00	8.83	44.20

Radiated Emissions above 1GHz_Mode 2



Radiated Emissions above 1GHz_Mode 2

