

FCC Radio Test Report

FCC ID : JNZVR0054
Equipment : Meeting Room Controller
Brand Name : Logitech, logitech, logi
Model Name : VR0054
Applicant : Logitech Far East Ltd
#2 Creation Rd., 4, Science-Based Ind. Park, HsinChu, Taiwan
Manufacturer : Logitech Far East Ltd
#2 Creation Rd., 4, Science-Based Ind. Park, HsinChu, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 16, 2026, and testing was started from Jun. 30, 2026 and completed on Jul. 29, 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

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C10 Ver4.5
FCC ID: JNZVR0054

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(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	1	logi	LTN&LTA	PIFA	N/A	2.4G+5G	Radio 1
2	1	logi	LTN&LTA	DIPOLE	I-Pex	BT	Radio 1
3	1	ZTX	AN2 NFC	Loop	N/A	NFC	Radio 2

Ant.	Port	Gain (dBi)						
		2.4G	5G				BT	NFC
			UNII-1	UNII-2A	UNII-2C	UNII-3		
1	1	3.32	2.72	3.55	4.33	4.1	-	-
2	1	-	-	-	-	-	4.14	-
3	1	-	-	-	-	-	-	-

Note 1: The EUT has three antennas.

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. 2 (port 1) could transmit/receive.

For NFC function:

For NFC mode (1TX/1RX)

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From PoE 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)	0.618	2.09	386.875u	3k
BT-LE(2Mbps)	0.323	4.91	202.5u	5k

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%	09/Jul/2026
RF Conducted	TH01-HY	Xun Hsieh	23.4~23.9°C / 53~56%	08/Jul/2026~17/Jul/2026
Radiated	03CH02-HY	Daniel Lin	23.5~24.6°C / 51~56%	30/Jun/2026~10/Jul/2026
Radiated (Co-location)	03CH02-HY	Daniel Lin	24.1~25.3°C / 51~55%	29/Jul/2026
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: 886-3-318-0787 FAX: 886-3-318-0287			
Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	3.24 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	Dos 6.1
Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	10
2440MHz	10
2480MHz	10
BT-LE(2Mbps)	-
2402MHz	10
2440MHz	10
2480MHz	10

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 ; BT-LE(2Mbps) 2440MHz TX

Note: The test channels were selected by the widest bandwidth and the highest specification of EUT.

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	PoE mode

Note: The test channels were selected by the widest bandwidth and the highest specification of EUT.

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

Note 1: Only recording the worst case's plot.

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz
Refer to Sporton Test Report No.: FA661606 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

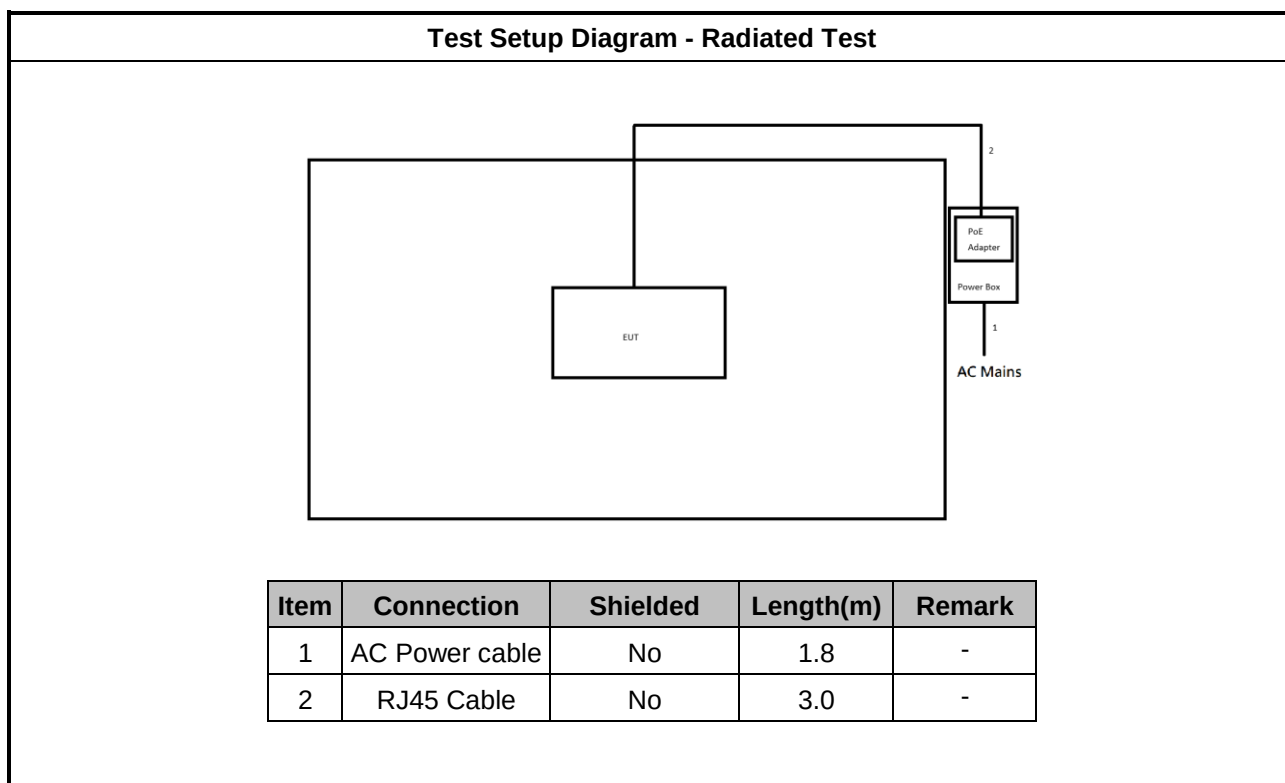
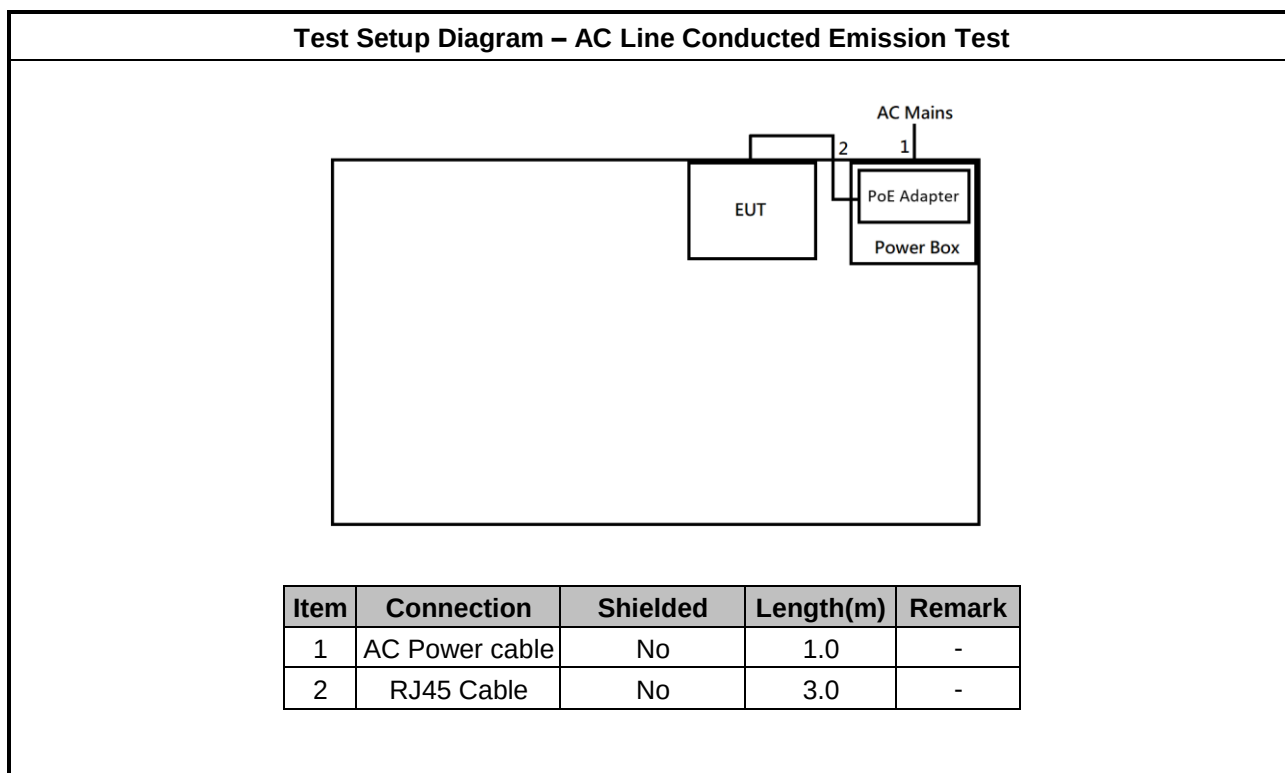
2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE adapter	logi	POE3OR-1AT	-	Provided by Customer
2	RJ45 cable	Power sync	CAT-6E-03	-	-

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

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE adapter	logi	POE3OR-1AT	-	Provided by Customer
2	RJ45 cable	Power sync	CAT-6E-03	-	-

2.4 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

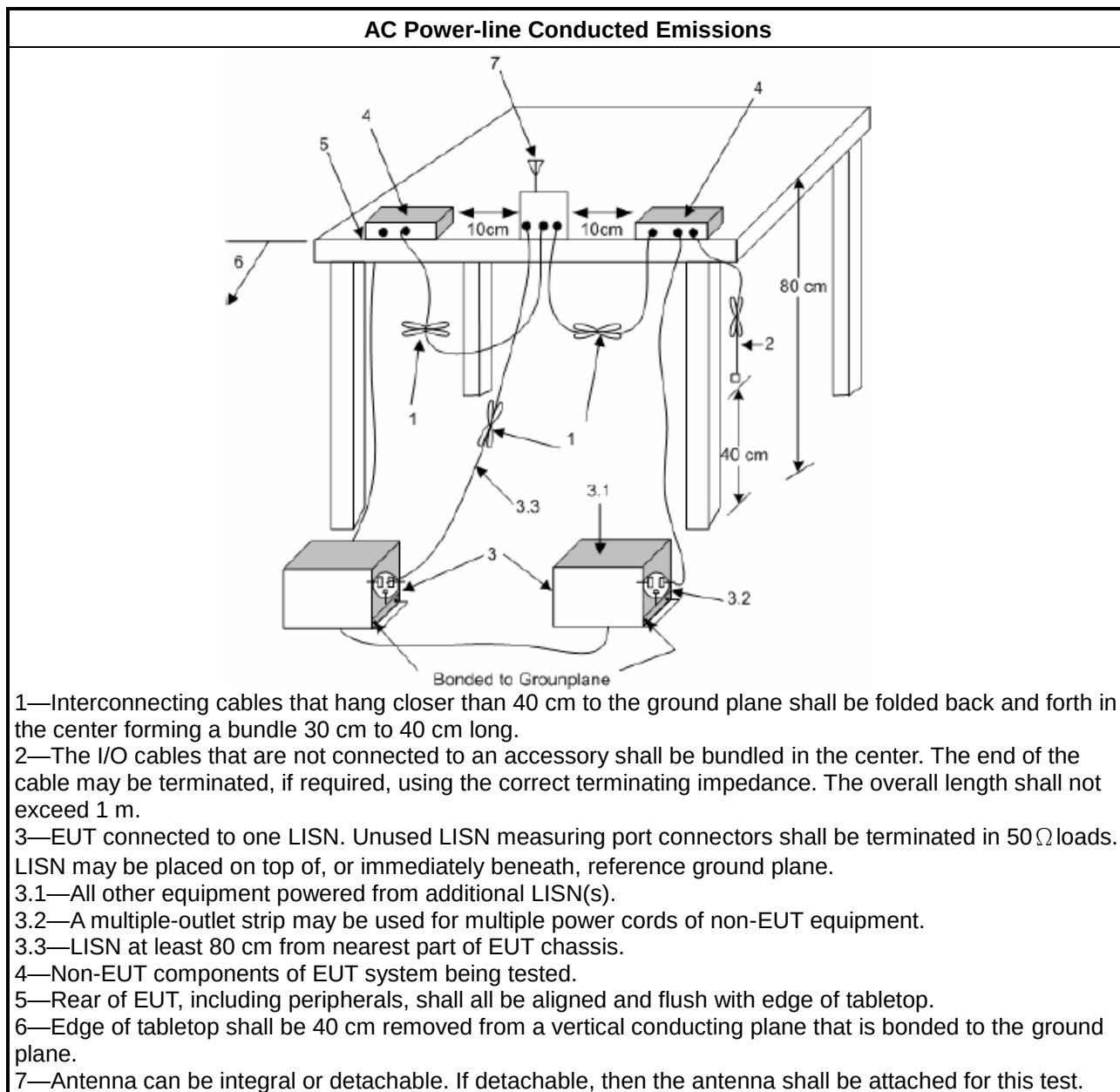
Test Method
Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

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.

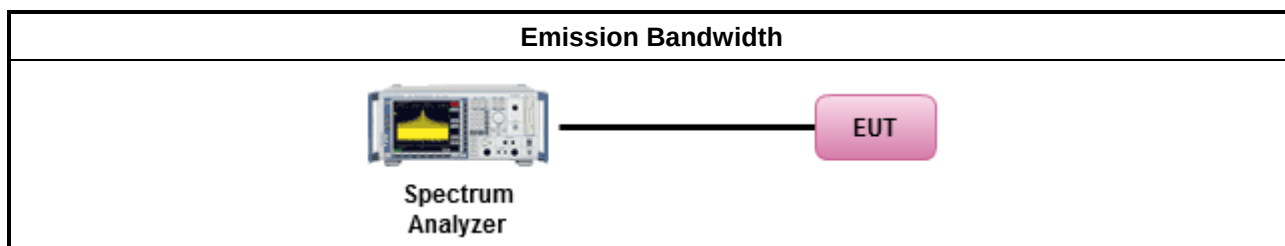
3.2.2 Measuring Instruments

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.	

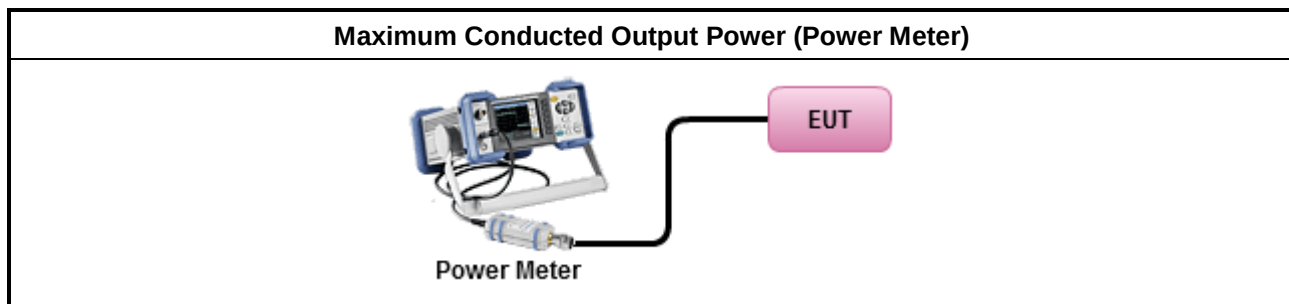
3.3.2 Measuring Instruments

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

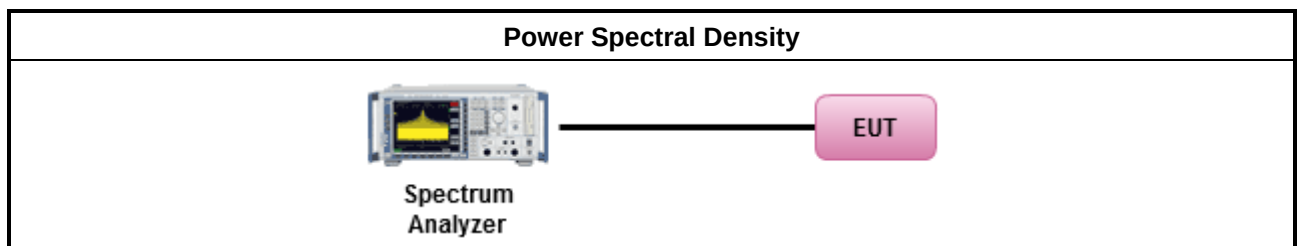
3.4.2 Measuring Instruments

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.	

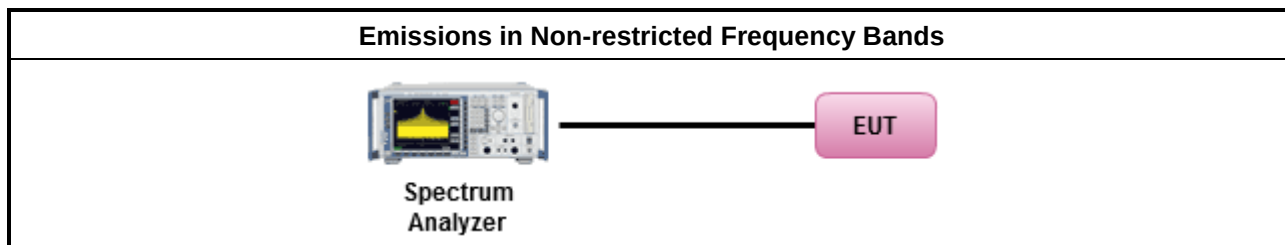
3.5.2 Measuring Instruments

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

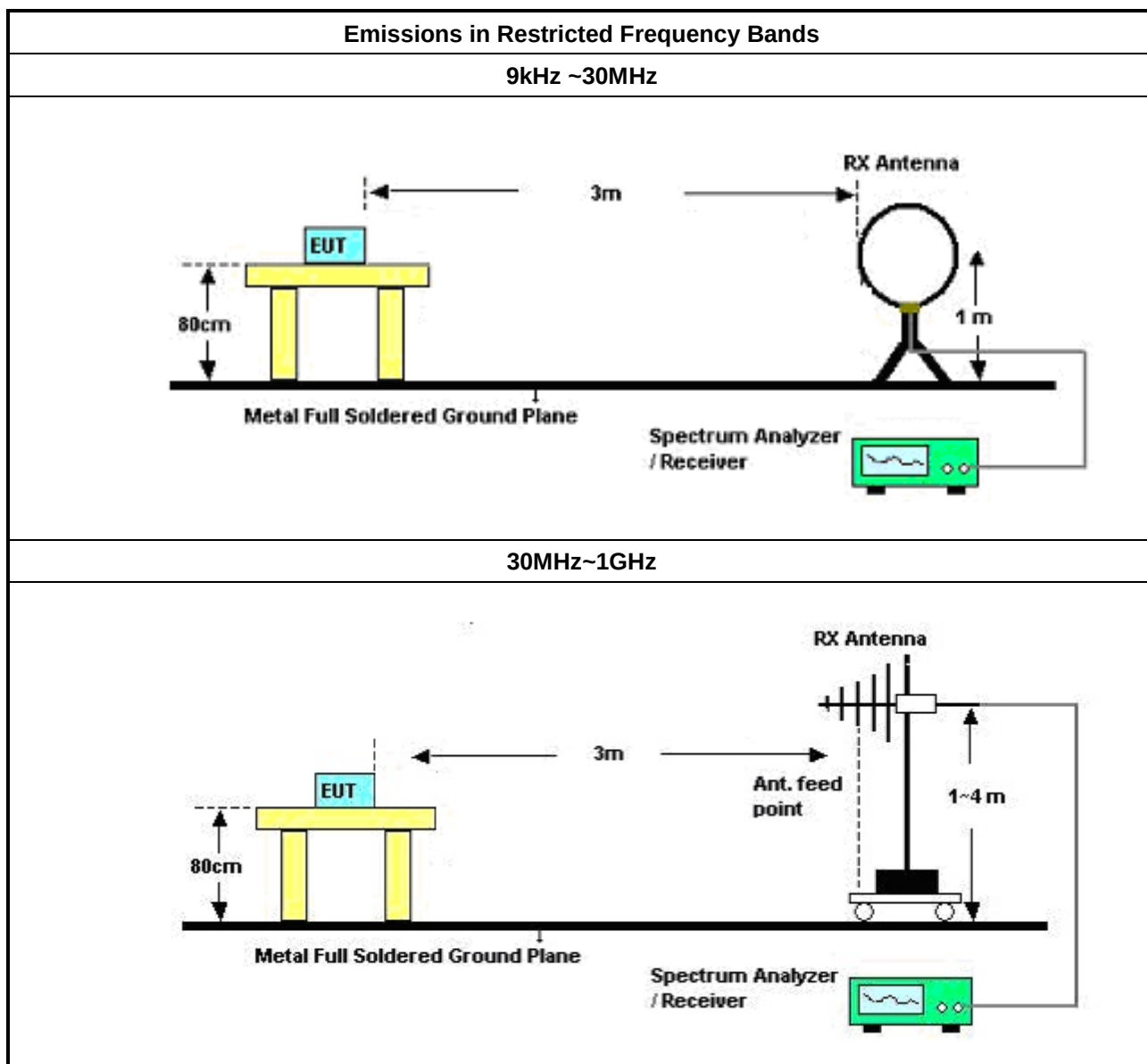
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted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

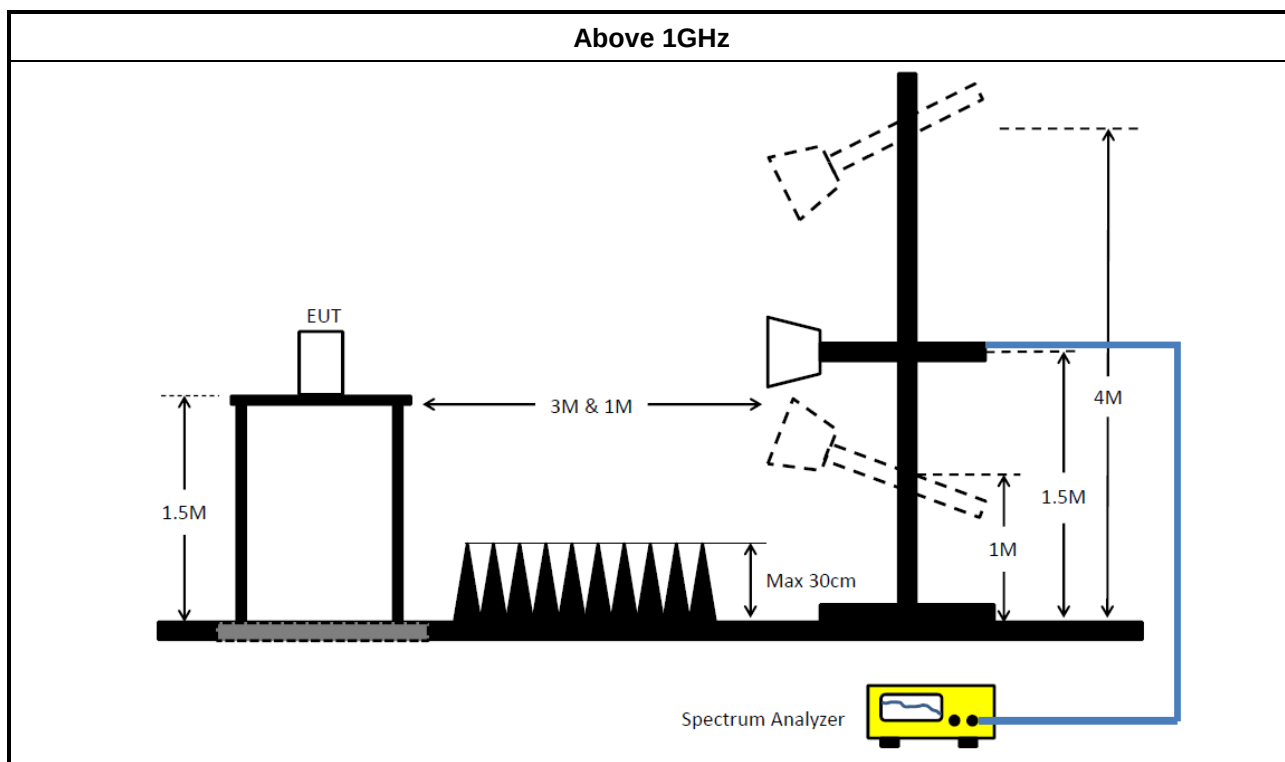
3.6.4 Measurement Results Calculation

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	FSV3044	101438	10Hz~44GHz	14/Oct/2025	13/Oct/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	29/Oct/2025	28/Oct/2026
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	04/Feb/2026	03/Feb/2027
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	04/Feb/2026	03/Feb/2027
SENSE-15407_NII	Sporton	V5.11.28	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
N.S.A. Measurement	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3M	12/Jul/2025	11/Jul/2026
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	12/Jul/2025	11/Jul/2026
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	13/May/2026	12/May/2027
Signal Analyzer	ROHDE& SCHWARZ	FSV3044	101750	10Hz~44GHz	14/Apr/2026	13/Apr/2027
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2026	15/Mar/2027
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723/2	30MHz~1GHz	25/Aug/2025	24/Aug/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	29/Jun/2026	28/Jun/2027
RF Cable	MVE	400LL+SN 200207	03CH02-cable-05	9kHz~1GHz	08/Aug/2025	07/Aug/2026
RF Cable HUBER+SUHNER	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-06	1GHz~40GHz	15/Aug/2025	14/Aug/2026
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	26/Jun/2026	25/Jun/2027
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	30/Sep/2025	29/Sep/2026
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	60604	18GHz ~40GHz	20/May/2026	19/May/2027
SENSE-15247-FS	Sporton	V5.11.23	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	11/Jul/2026	10/Jul/2027
Signal Analyzer	ROHDE& SCHWARZ	FSV3044	101750	10Hz~44GHz	14/Apr/2026	13/Apr/2027
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	29/Jun/2026	28/Jun/2027
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	60604	18GHz ~40GHz	20/May/2026	19/May/2027
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

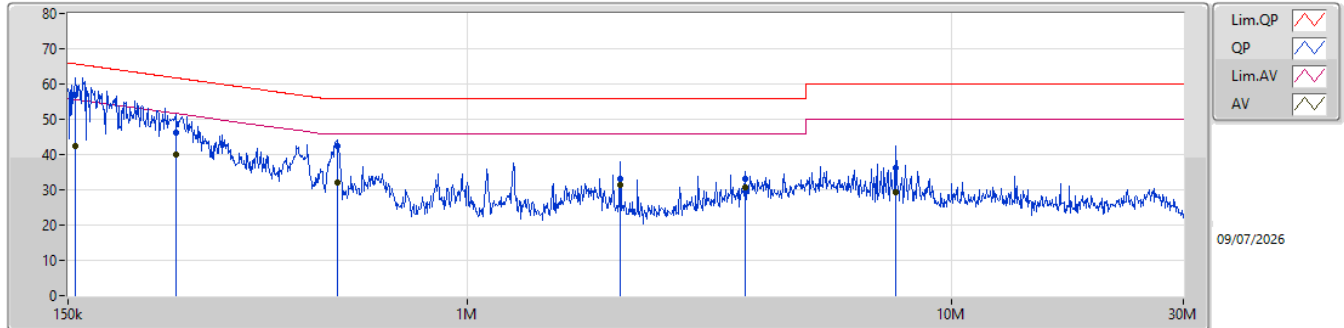
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	155.49k	57.00	65.69	-8.69	Line

Result

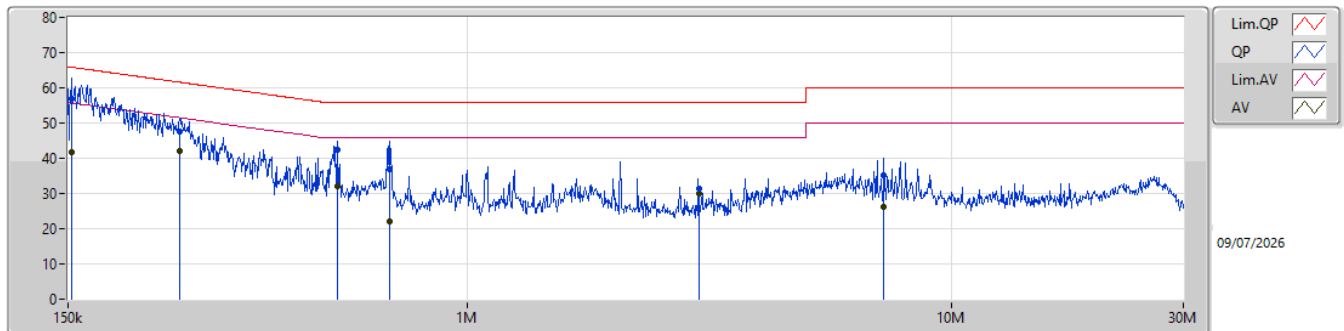
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	155.49k	57.00	65.69	-8.69	Line
Mode 1	Pass	AV	155.49k	42.32	55.69	-13.37	Line
Mode 1	Pass	QP	250.04k	46.16	61.76	-15.60	Line
Mode 1	Pass	AV	250.04k	40.10	51.76	-11.66	Line
Mode 1	Pass	QP	538.12k	42.43	56.00	-13.57	Line
Mode 1	Pass	AV	538.12k	32.24	46.00	-13.76	Line
Mode 1	Pass	QP	2.07M	32.94	56.00	-23.06	Line
Mode 1	Pass	AV	2.07M	31.33	46.00	-14.67	Line
Mode 1	Pass	QP	3.75M	33.24	56.00	-22.76	Line
Mode 1	Pass	AV	3.75M	30.79	46.00	-15.21	Line
Mode 1	Pass	QP	7.65M	36.31	60.00	-23.69	Line
Mode 1	Pass	AV	7.65M	29.26	50.00	-20.74	Line
Mode 1	Pass	QP	152.41k	56.75	65.87	-9.12	Neutral
Mode 1	Pass	AV	152.41k	41.85	55.87	-14.02	Neutral
Mode 1	Pass	QP	255.08k	47.74	61.58	-13.84	Neutral
Mode 1	Pass	AV	255.08k	41.99	51.58	-9.59	Neutral
Mode 1	Pass	QP	538.12k	42.41	56.00	-13.59	Neutral
Mode 1	Pass	AV	538.12k	32.24	46.00	-13.76	Neutral
Mode 1	Pass	QP	692k	36.99	56.00	-19.01	Neutral
Mode 1	Pass	AV	692k	21.94	46.00	-24.06	Neutral
Mode 1	Pass	QP	3M	31.35	56.00	-24.65	Neutral
Mode 1	Pass	AV	3M	29.86	46.00	-16.14	Neutral
Mode 1	Pass	QP	7.24M	35.15	60.00	-24.85	Neutral
Mode 1	Pass	AV	7.24M	26.31	50.00	-23.69	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	57.00	65.69	-8.69	19.79	Line	37.21	9.64	0.17	9.98								
AV	155.49k	42.32	55.69	-13.37	19.79	Line	22.53	9.64	0.17	9.98								
QP	250.04k	46.16	61.76	-15.60	19.77	Line	26.39	9.64	0.12	10.01								
AV	250.04k	40.10	51.76	-11.66	19.77	Line	20.33	9.64	0.12	10.01								
QP	538.12k	42.43	56.00	-13.57	19.75	Line	22.68	9.63	0.09	10.03								
AV	538.12k	32.24	46.00	-13.76	19.75	Line	12.49	9.63	0.09	10.03								
QP	2.07M	32.94	56.00	-23.06	19.64	Line	13.30	9.65	0.04	9.95								
AV	2.07M	31.33	46.00	-14.67	19.64	Line	11.69	9.65	0.04	9.95								
QP	3.75M	33.24	56.00	-22.76	19.82	Line	13.42	9.66	0.12	10.04								
AV	3.75M	30.79	46.00	-15.21	19.82	Line	10.97	9.66	0.12	10.04								
QP	7.65M	36.31	60.00	-23.69	19.85	Line	16.46	9.68	0.21	9.96								
AV	7.65M	29.26	50.00	-20.74	19.85	Line	9.41	9.68	0.21	9.96								

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	56.75	65.87	-9.12	19.79	Neutral	36.96	9.64	0.17	9.98								
AV	152.41k	41.85	55.87	-14.02	19.79	Neutral	22.06	9.64	0.17	9.98								
QP	255.08k	47.74	61.58	-13.84	19.76	Neutral	27.98	9.63	0.12	10.01								
AV	255.08k	41.99	51.58	-9.59	19.76	Neutral	22.23	9.63	0.12	10.01								
QP	538.12k	42.41	56.00	-13.59	19.75	Neutral	22.66	9.63	0.09	10.03								
AV	538.12k	32.24	46.00	-13.76	19.75	Neutral	12.49	9.63	0.09	10.03								
QP	692k	36.99	56.00	-19.01	19.77	Neutral	17.22	9.64	0.08	10.05								
AV	692k	21.94	46.00	-24.06	19.77	Neutral	2.17	9.64	0.08	10.05								
QP	3M	31.35	56.00	-24.65	19.76	Neutral	11.59	9.66	0.09	10.01								
AV	3M	29.86	46.00	-16.14	19.76	Neutral	10.10	9.66	0.09	10.01								
QP	7.24M	35.15	60.00	-24.85	19.86	Neutral	15.29	9.69	0.20	9.97								
AV	7.24M	26.31	50.00	-23.69	19.86	Neutral	6.45	9.69	0.20	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-LE(1Mbps)	700k	1.039M	1M04F1D	677.5k	1.035M
BT-LE(2Mbps)	1.333M	2.077M	2M08F1D	917.5k	2.068M

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

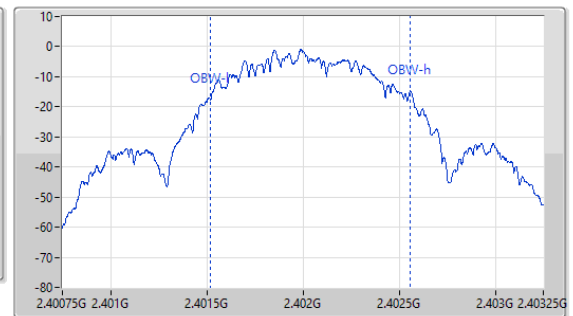
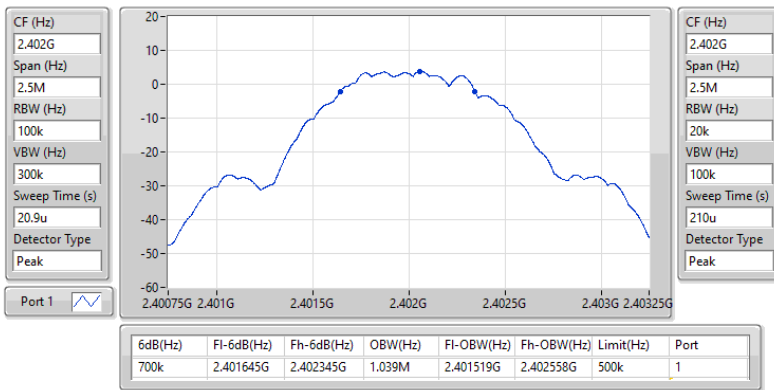
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	700k	1.039M
2440MHz	Pass	500k	677.5k	1.039M
2480MHz	Pass	500k	682.5k	1.035M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.333M	2.075M
2440MHz	Pass	500k	917.5k	2.077M
2480MHz	Pass	500k	1.158M	2.068M

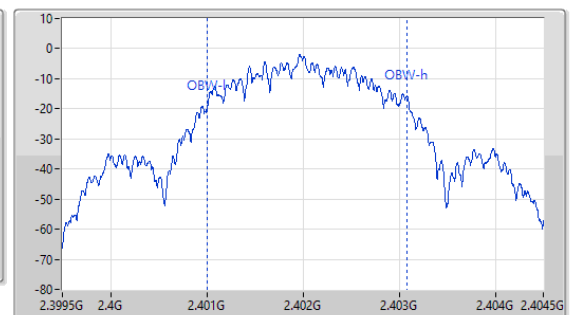
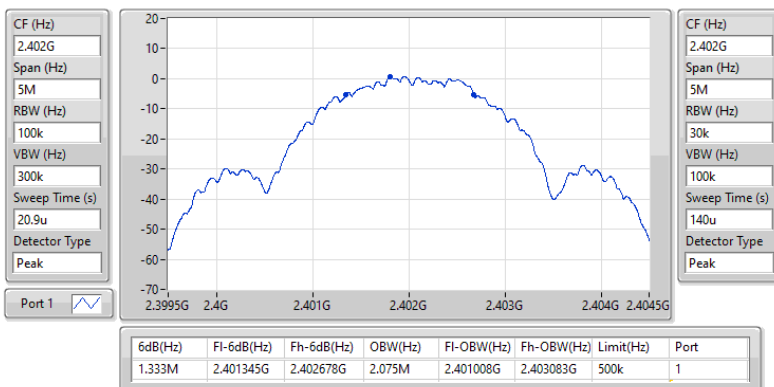
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

08/07/2026


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2402MHz

08/07/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	5.70	0.00372
BT-LE(2Mbps)	5.41	0.00348

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	4.14	5.55	30.00
2440MHz	Pass	4.14	5.55	30.00
2480MHz	Pass	4.14	5.70	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	4.14	5.28	30.00
2440MHz	Pass	4.14	5.40	30.00
2480MHz	Pass	4.14	5.41	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)	-9.27
BT-LE(2Mbps)	-11.18

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	4.14	-9.27	8.00
2440MHz	Pass	4.14	-9.27	8.00
2480MHz	Pass	4.14	-9.76	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	4.14	-12.14	8.00
2440MHz	Pass	4.14	-11.67	8.00
2480MHz	Pass	4.14	-11.18	8.00

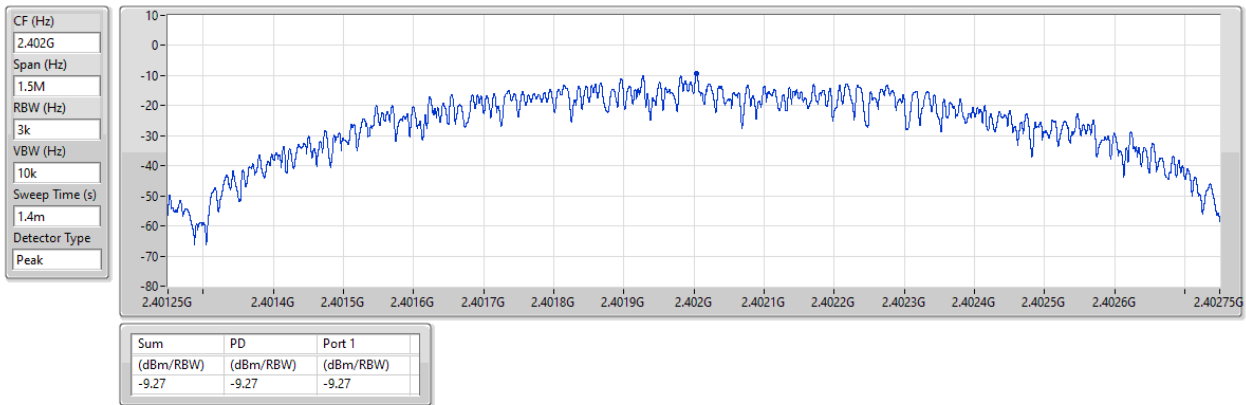
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

08/07/2026

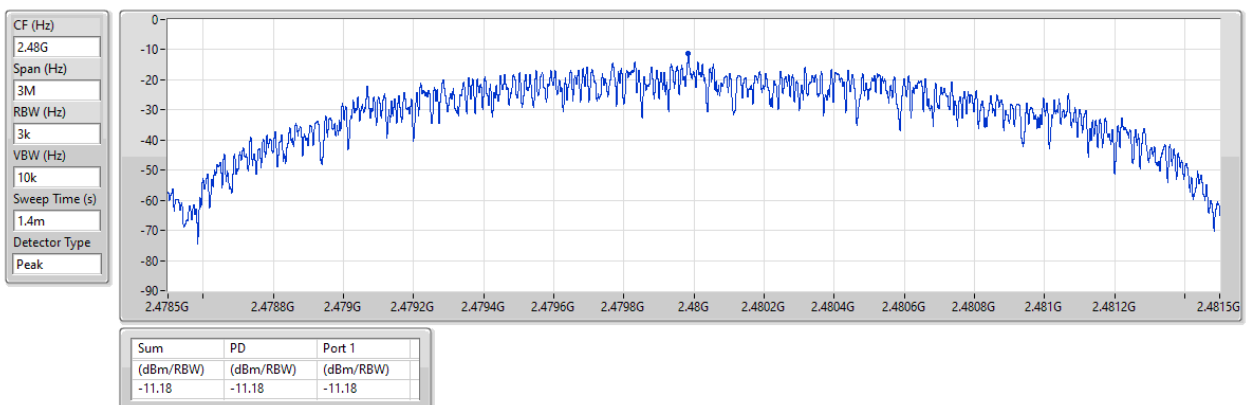


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

08/07/2026



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	2.48016G	5.26	-24.74	2.07803G	-53.08	2.398G	-52.21	2.4G	-55.01	2.50062G	-54.06	21.8758G	-42.62	1
BT-LE(2Mbps)	Pass	2.48016G	5.00	-25.00	2.16615G	-53.79	2.4G	-27.17	2.4G	-26.52	2.50066G	-54.05	21.57772G	-42.65	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	2.48016G	5.26	-24.74	1.80308G	-54.00	2.39968G	-53.01	2.4G	-52.39	2.50138G	-54.04	21.90673G	-42.54	1
2440MHz	Pass	2.48016G	5.26	-24.74	2.07803G	-53.08	2.398G	-52.21	2.4G	-55.01	2.50062G	-54.06	21.8758G	-42.62	1
2480MHz	Pass	2.48016G	5.26	-24.74	2.145G	-53.88	2.3948G	-53.71	2.4G	-56.34	2.50214G	-53.72	21.57491G	-42.71	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48016G	5.00	-25.00	2.16615G	-53.79	2.4G	-27.17	2.4G	-26.52	2.50066G	-54.05	21.57772G	-42.65	1
2440MHz	Pass	2.48016G	5.00	-25.00	2.16615G	-53.60	2.39372G	-53.06	2.4G	-55.15	2.50126G	-53.59	21.67895G	-42.49	1
2480MHz	Pass	2.48016G	5.00	-25.00	2.1967G	-53.23	2.3956G	-52.50	2.4G	-56.20	2.50174G	-53.61	21.91798G	-42.36	1

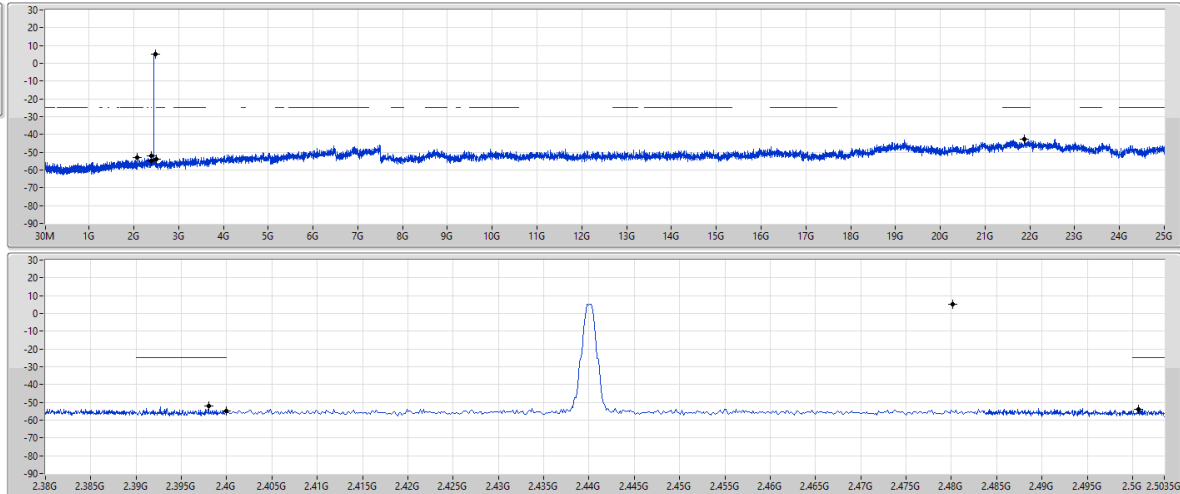
Note 1: The channel 2480MHz is found which has the maximum PSD level.

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

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

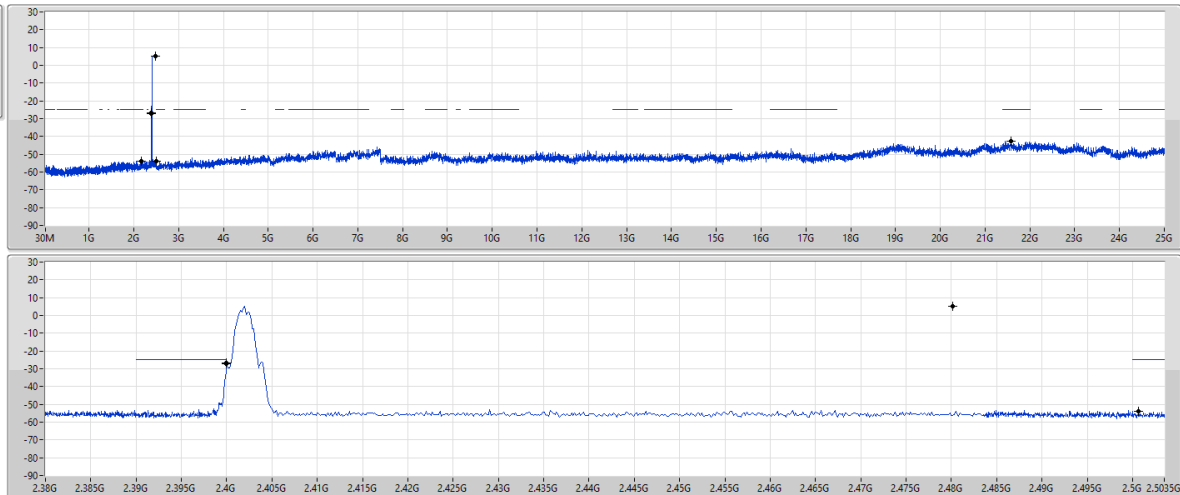


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

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





Summary

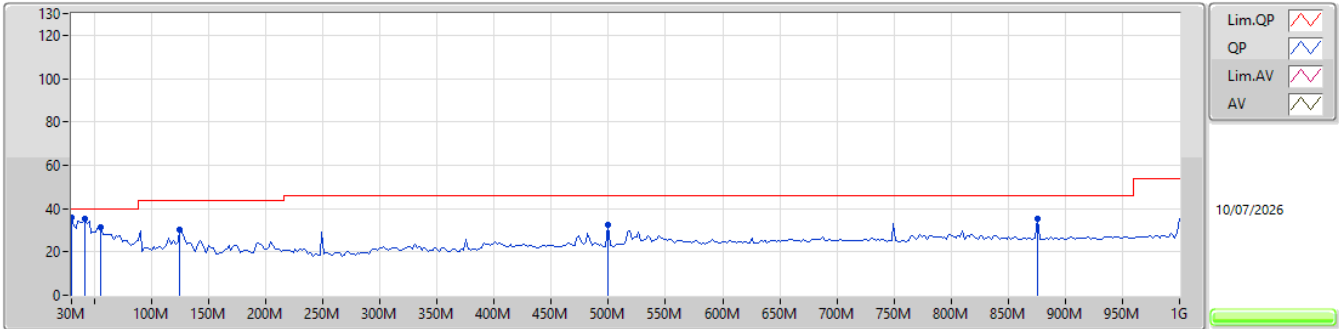
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	30M	35.95	40.00	-4.05	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_PoE	Pass	PK	30M	35.95	40.00	-4.05	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	41.64M	35.33	40.00	-4.67	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	55.22M	31.28	40.00	-8.72	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	125.06M	30.43	43.50	-13.07	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	499.48M	32.64	46.00	-13.36	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	875.84M	35.33	46.00	-10.67	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	30M	27.32	40.00	-12.68	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	90.14M	30.04	43.50	-13.46	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	125.06M	30.10	43.50	-13.40	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	132.82M	28.02	43.50	-15.48	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	625.58M	30.50	46.00	-15.50	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	749.74M	35.46	46.00	-10.54	3	Horizontal	0	1.00

2.4-2.4835GHz_BT-LE(2Mbps)

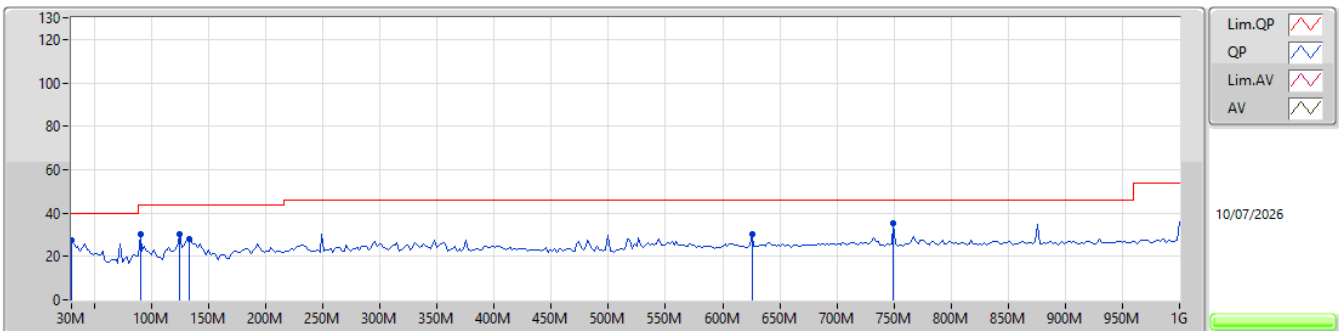
2440MHz_PoE



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	35.95	40.00	-4.05	-2.82	3	Vertical	360	1.00	38.77	23.32	0.95	27.09
PK	41.64M	35.33	40.00	-4.67	-8.15	3	Vertical	360	1.00	43.48	16.93	1.15	26.23
PK	55.22M	31.28	40.00	-8.72	-14.91	3	Vertical	360	1.00	46.19	11.38	1.31	27.60
PK	125.06M	30.43	43.50	-13.07	-9.19	3	Vertical	360	1.00	39.62	16.82	1.89	27.90
PK	499.48M	32.64	46.00	-13.36	-2.68	3	Vertical	360	1.00	35.32	21.99	3.92	28.59
PK	875.84M	35.33	46.00	-10.67	2.39	3	Vertical	360	1.00	32.94	24.92	5.32	27.85

2.4-2.4835GHz_BT-LE(2Mbps)

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	27.32	40.00	-12.68	-2.82	3	Horizontal	0	1.00	30.14	23.32	0.95	27.09
PK	90.14M	30.04	43.50	-13.46	-12.40	3	Horizontal	0	1.00	42.44	13.89	1.68	27.97
PK	125.06M	30.10	43.50	-13.40	-9.19	3	Horizontal	0	1.00	39.29	16.82	1.89	27.90
PK	132.82M	28.02	43.50	-15.48	-9.33	3	Horizontal	0	1.00	37.35	16.59	1.93	27.85
PK	625.58M	30.50	46.00	-15.50	-0.46	3	Horizontal	0	1.00	30.96	23.71	4.39	28.56
PK	749.74M	35.46	46.00	-10.54	0.84	3	Horizontal	0	1.00	34.62	24.29	4.87	28.32



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	2.4835G	47.98	54.00	-6.02	3	Horizontal	168	2.08
BT-LE(2Mbps)	Pass	AV	2.4835G	49.90	54.00	-4.10	3	Horizontal	168	2.08

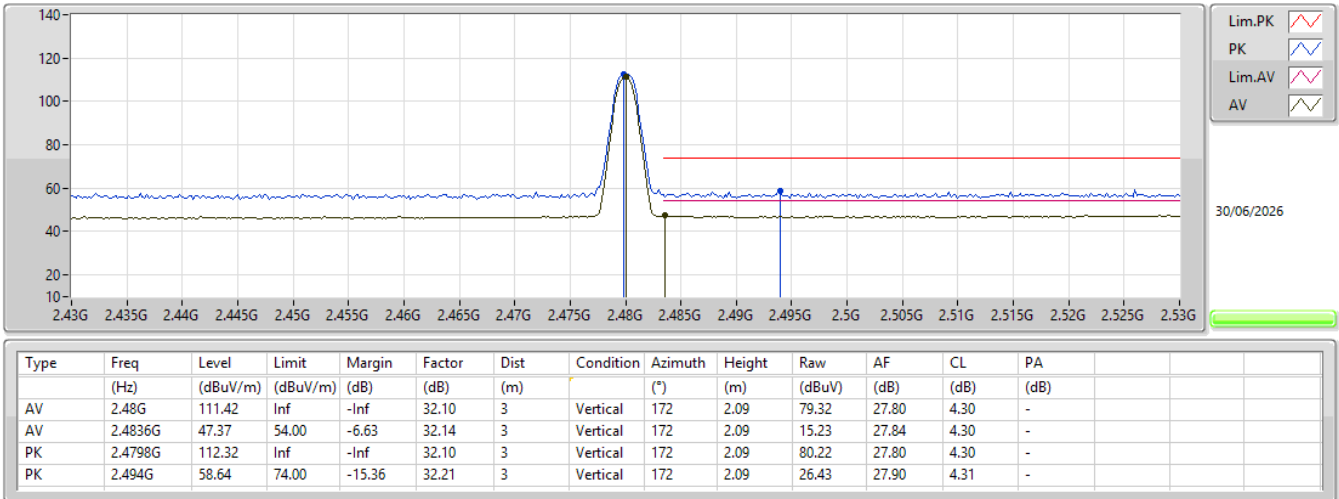
Result

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	2.37G	46.52	54.00	-7.48	3	Vertical	209	2.20
2402MHz	Pass	AV	2.402G	109.90	Inf	-Inf	3	Vertical	209	2.20
2402MHz	Pass	PK	2.389G	57.60	74.00	-16.40	3	Vertical	209	2.20
2402MHz	Pass	PK	2.4022G	110.79	Inf	-Inf	3	Vertical	209	2.20
2402MHz	Pass	AV	2.363G	46.45	54.00	-7.55	3	Horizontal	169	2.38
2402MHz	Pass	AV	2.402G	113.70	Inf	-Inf	3	Horizontal	169	2.38
2402MHz	Pass	PK	2.373G	57.85	74.00	-16.15	3	Horizontal	169	2.38
2402MHz	Pass	PK	2.4022G	114.57	Inf	-Inf	3	Horizontal	169	2.38
2402MHz	Pass	AV	4.8044G	31.24	54.00	-22.76	3	Vertical	192	1.35
2402MHz	Pass	PK	4.80163G	42.21	74.00	-31.79	3	Vertical	192	1.35
2402MHz	Pass	AV	4.80379G	34.35	54.00	-19.65	3	Horizontal	168	1.24
2402MHz	Pass	PK	4.80446G	43.86	74.00	-30.14	3	Horizontal	168	1.24
2440MHz	Pass	AV	2.3776G	46.25	54.00	-7.75	3	Vertical	206	2.16
2440MHz	Pass	AV	2.44G	110.93	Inf	-Inf	3	Vertical	206	2.16
2440MHz	Pass	AV	2.4952G	46.97	54.00	-7.03	3	Vertical	206	2.16
2440MHz	Pass	PK	2.3756G	56.79	74.00	-17.21	3	Vertical	206	2.16
2440MHz	Pass	PK	2.4404G	111.89	Inf	-Inf	3	Vertical	206	2.16
2440MHz	Pass	PK	2.4844G	58.39	74.00	-15.61	3	Vertical	206	2.16
2440MHz	Pass	AV	2.3488G	46.51	54.00	-7.49	3	Horizontal	169	2.21
2440MHz	Pass	AV	2.44G	114.18	Inf	-Inf	3	Horizontal	169	2.21
2440MHz	Pass	AV	2.4948G	47.03	54.00	-6.97	3	Horizontal	169	2.21
2440MHz	Pass	PK	2.3772G	57.29	74.00	-16.71	3	Horizontal	169	2.21
2440MHz	Pass	PK	2.4396G	115.11	Inf	-Inf	3	Horizontal	169	2.21
2440MHz	Pass	PK	2.486G	58.33	74.00	-15.67	3	Horizontal	169	2.21
2440MHz	Pass	AV	4.8797G	33.94	54.00	-20.06	3	Vertical	173	2.14
2440MHz	Pass	PK	4.88059G	43.38	74.00	-30.62	3	Vertical	173	2.14
2440MHz	Pass	AV	4.87969G	34.93	54.00	-19.07	3	Horizontal	171	2.71
2440MHz	Pass	PK	4.8802G	43.60	74.00	-30.40	3	Horizontal	171	2.71
2480MHz	Pass	AV	2.48G	111.42	Inf	-Inf	3	Vertical	172	2.09
2480MHz	Pass	AV	2.4836G	47.37	54.00	-6.63	3	Vertical	172	2.09
2480MHz	Pass	PK	2.4798G	112.32	Inf	-Inf	3	Vertical	172	2.09
2480MHz	Pass	PK	2.494G	58.64	74.00	-15.36	3	Vertical	172	2.09
2480MHz	Pass	AV	2.48G	114.81	Inf	-Inf	3	Horizontal	168	2.08
2480MHz	Pass	AV	2.4835G	47.98	54.00	-6.02	3	Horizontal	168	2.08
2480MHz	Pass	PK	2.4802G	115.74	Inf	-Inf	3	Horizontal	168	2.08
2480MHz	Pass	PK	2.4835G	59.11	74.00	-14.89	3	Horizontal	168	2.08
2480MHz	Pass	AV	4.95964G	34.65	54.00	-19.35	3	Vertical	351	2.88
2480MHz	Pass	PK	4.95988G	44.25	74.00	-29.75	3	Vertical	351	2.88
2480MHz	Pass	AV	4.95964G	37.24	54.00	-16.76	3	Horizontal	207	1.80
2480MHz	Pass	PK	4.95936G	45.71	74.00	-28.29	3	Horizontal	207	1.80
2480MHz	Pass	AV	19.82812G	27.04	54.00	-26.96	3	Vertical	206	1.09
2480MHz	Pass	PK	19.83194G	37.89	74.00	-36.11	3	Vertical	206	1.09
2480MHz	Pass	AV	19.8421G	27.55	54.00	-26.45	3	Horizontal	105	2.30
2480MHz	Pass	PK	19.8364G	37.90	74.00	-36.10	3	Horizontal	105	2.30
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3586G	46.93	54.00	-7.07	3	Vertical	209	2.20
2402MHz	Pass	AV	2.402G	108.40	Inf	-Inf	3	Vertical	209	2.20
2402MHz	Pass	PK	2.3838G	57.50	74.00	-16.50	3	Vertical	209	2.20
2402MHz	Pass	PK	2.4026G	110.82	Inf	-Inf	3	Vertical	209	2.20
2402MHz	Pass	AV	2.3734G	47.04	54.00	-6.96	3	Horizontal	171	2.23
2402MHz	Pass	AV	2.402G	111.96	Inf	-Inf	3	Horizontal	171	2.23
2402MHz	Pass	PK	2.386G	57.62	74.00	-16.38	3	Horizontal	171	2.23
2402MHz	Pass	PK	2.4014G	114.57	Inf	-Inf	3	Horizontal	171	2.23
2402MHz	Pass	AV	4.80547G	31.27	54.00	-22.73	3	Vertical	8	1.50
2402MHz	Pass	PK	4.8032G	42.26	74.00	-31.74	3	Vertical	8	1.50
2402MHz	Pass	AV	4.8031G	33.50	54.00	-20.50	3	Horizontal	170	1.37
2402MHz	Pass	PK	4.80492G	42.82	74.00	-31.18	3	Horizontal	170	1.37
2440MHz	Pass	AV	2.3424G	47.00	54.00	-7.00	3	Vertical	196	2.16
2440MHz	Pass	AV	2.44G	109.05	Inf	-Inf	3	Vertical	196	2.16
2440MHz	Pass	AV	2.4972G	47.60	54.00	-6.40	3	Vertical	196	2.16

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	PK	2.3616G	57.89	74.00	-16.11	3	Vertical	196	2.16
2440MHz	Pass	PK	2.4404G	111.47	Inf	-Inf	3	Vertical	196	2.16
2440MHz	Pass	PK	2.4912G	58.28	74.00	-15.72	3	Vertical	196	2.16
2440MHz	Pass	AV	2.3456G	47.11	54.00	-6.89	3	Horizontal	167	2.22
2440MHz	Pass	AV	2.44G	112.53	Inf	-Inf	3	Horizontal	167	2.22
2440MHz	Pass	AV	2.4835G	47.74	54.00	-6.26	3	Horizontal	167	2.22
2440MHz	Pass	PK	2.382G	57.67	74.00	-16.33	3	Horizontal	167	2.22
2440MHz	Pass	PK	2.4404G	114.93	Inf	-Inf	3	Horizontal	167	2.22
2440MHz	Pass	PK	2.5G	57.48	74.00	-16.52	3	Horizontal	167	2.22
2440MHz	Pass	AV	4.87897G	32.90	54.00	-21.10	3	Vertical	176	2.24
2440MHz	Pass	PK	4.87855G	42.51	74.00	-31.49	3	Vertical	176	2.24
2440MHz	Pass	AV	4.87913G	34.35	54.00	-19.65	3	Horizontal	168	2.59
2440MHz	Pass	PK	4.88111G	43.62	74.00	-30.38	3	Horizontal	168	2.59
2480MHz	Pass	AV	2.48G	104.68	Inf	-Inf	3	Vertical	206	2.09
2480MHz	Pass	AV	2.4835G	48.44	54.00	-5.56	3	Vertical	206	2.09
2480MHz	Pass	PK	2.4796G	107.12	Inf	-Inf	3	Vertical	206	2.09
2480MHz	Pass	PK	2.4835G	58.57	74.00	-15.43	3	Vertical	206	2.09
2480MHz	Pass	AV	2.48G	108.02	Inf	-Inf	3	Horizontal	168	2.08
2480MHz	Pass	AV	2.4835G	49.90	54.00	-4.10	3	Horizontal	168	2.08
2480MHz	Pass	PK	2.4806G	110.43	Inf	-Inf	3	Horizontal	168	2.08
2480MHz	Pass	PK	2.4878G	58.75	74.00	-15.25	3	Horizontal	168	2.08
2480MHz	Pass	AV	4.96089G	32.00	54.00	-22.00	3	Vertical	168	1.50
2480MHz	Pass	PK	4.9604G	42.41	74.00	-31.59	3	Vertical	168	1.50
2480MHz	Pass	AV	4.96045G	31.80	54.00	-22.20	3	Horizontal	226	2.70
2480MHz	Pass	PK	4.9594G	42.62	74.00	-31.38	3	Horizontal	226	2.70
2480MHz	Pass	AV	19.84186G	27.67	54.00	-26.33	3	Vertical	35	1.86
2480MHz	Pass	PK	19.82836G	38.08	74.00	-35.92	3	Vertical	35	1.86
2480MHz	Pass	AV	19.85194G	27.65	54.00	-26.35	3	Horizontal	173	2.15
2480MHz	Pass	PK	19.855G	38.89	74.00	-35.11	3	Horizontal	173	2.15

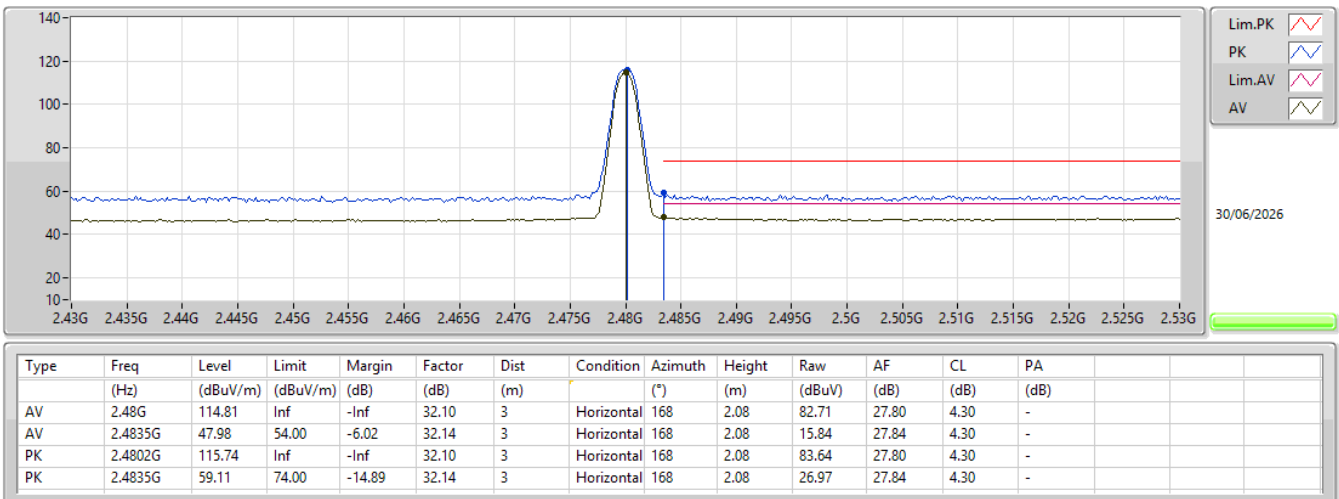
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2480MHz_TX



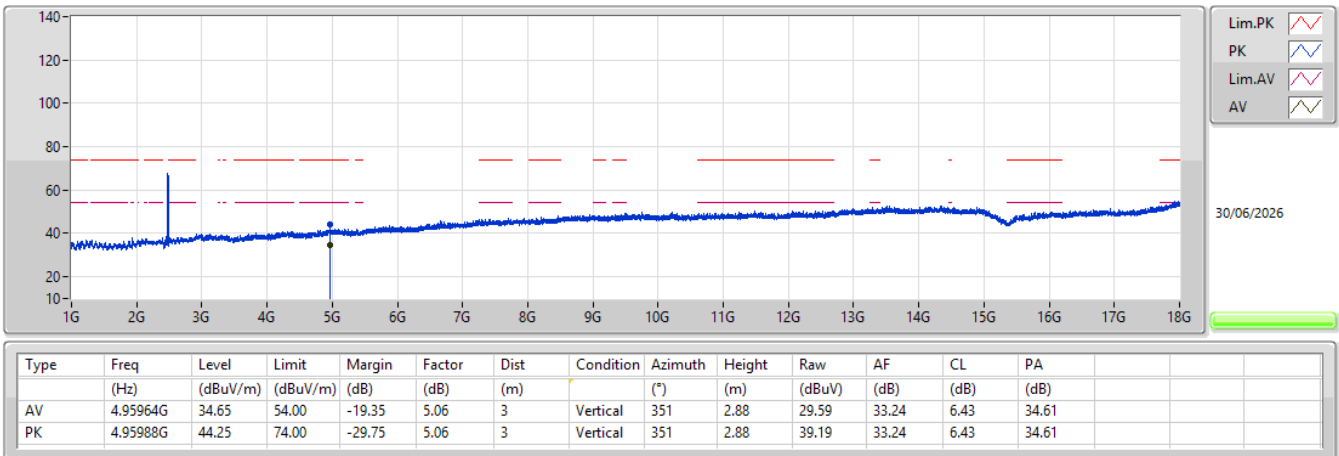
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2480MHz_TX



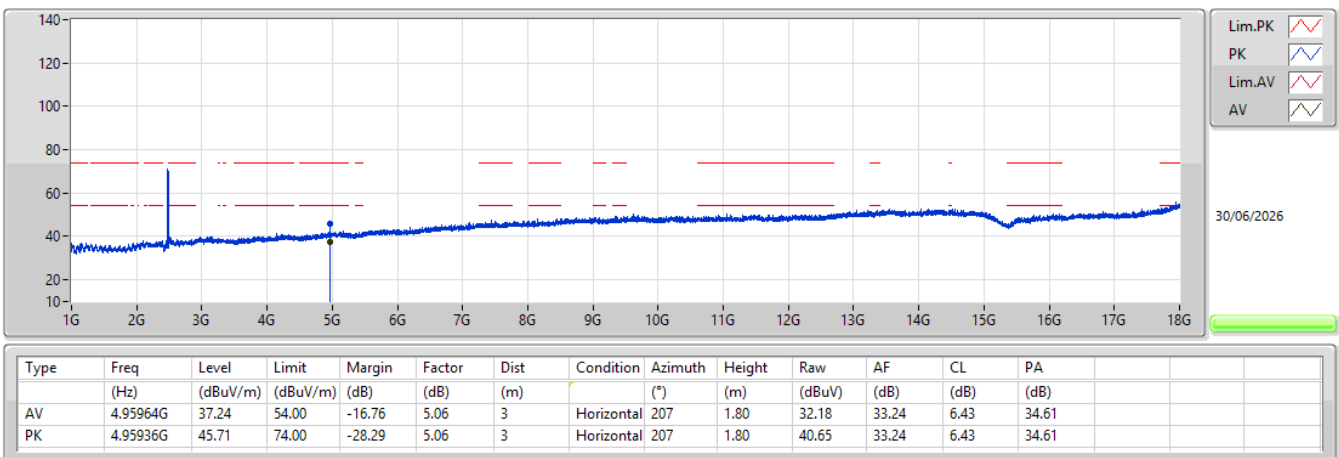
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2480MHz_TX



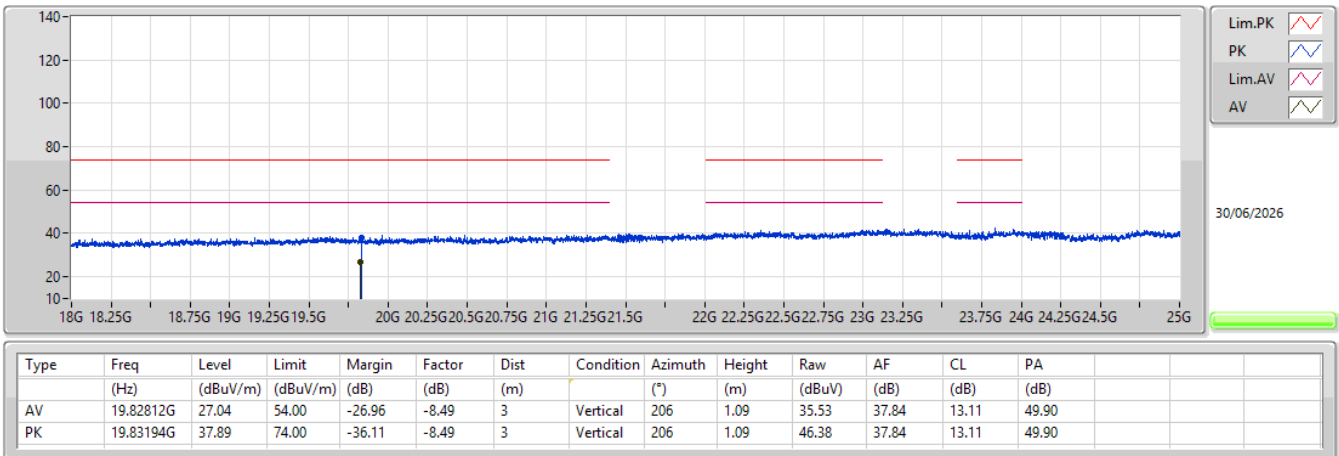
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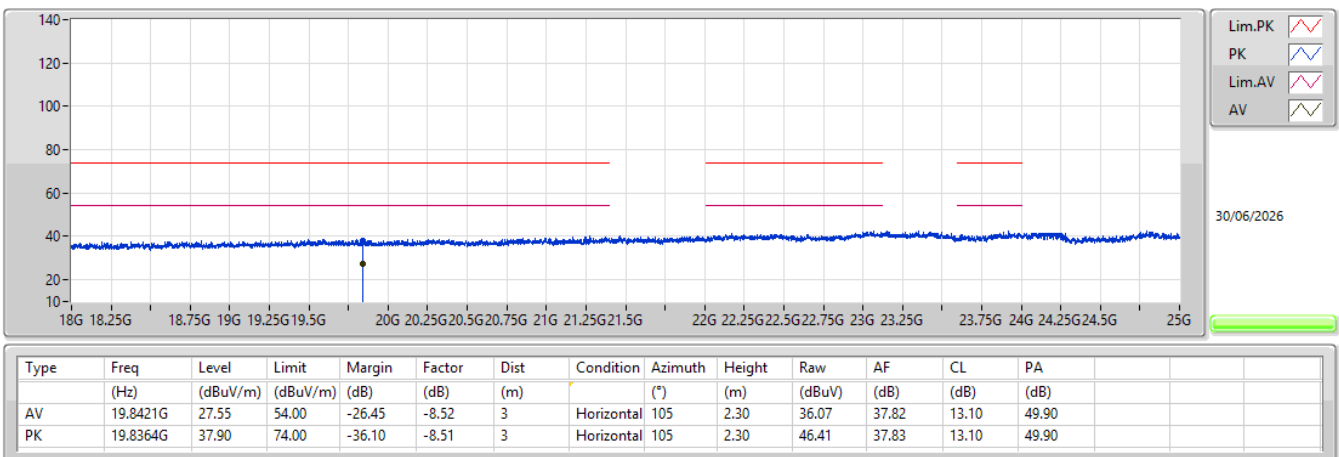
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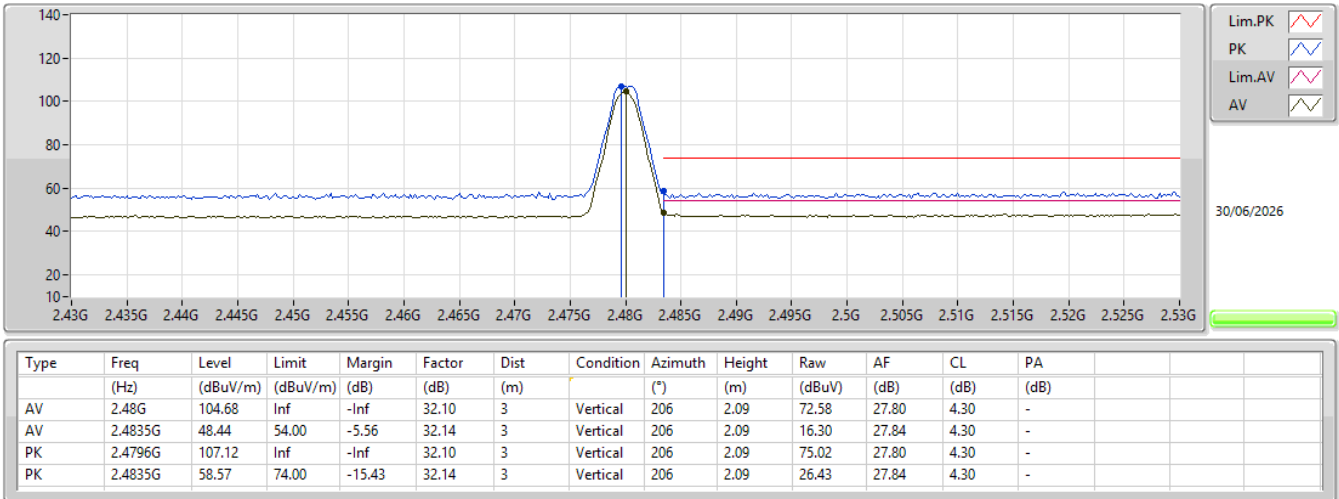
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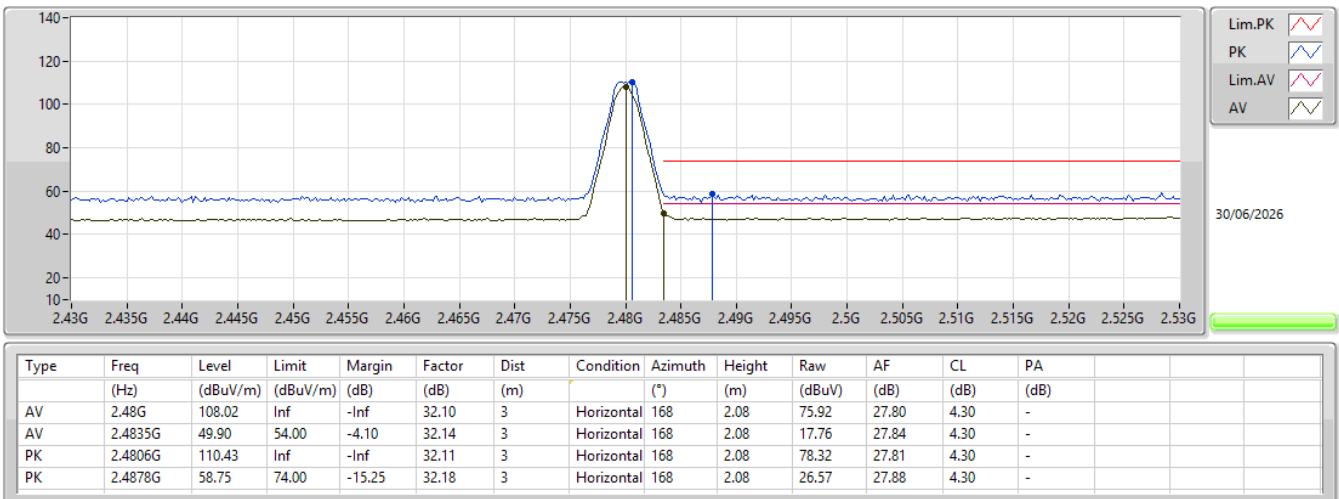
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2480MHz_TX



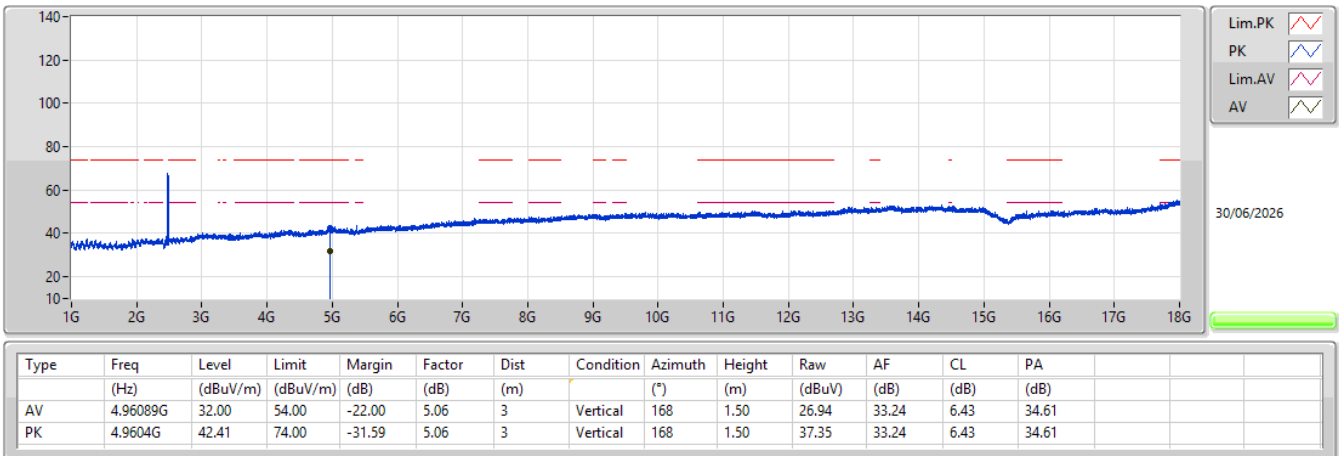
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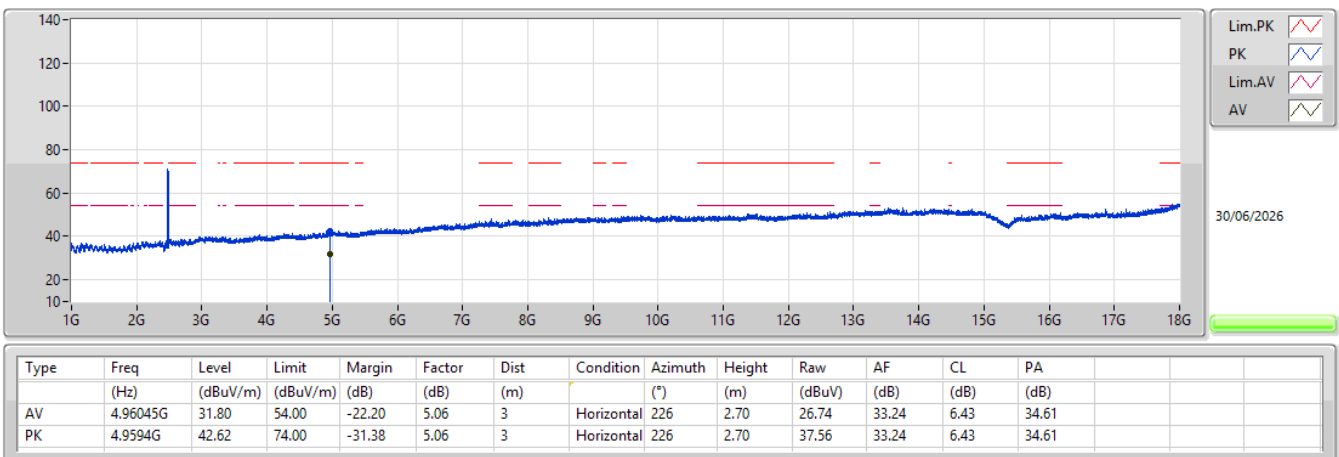
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2480MHz_TX



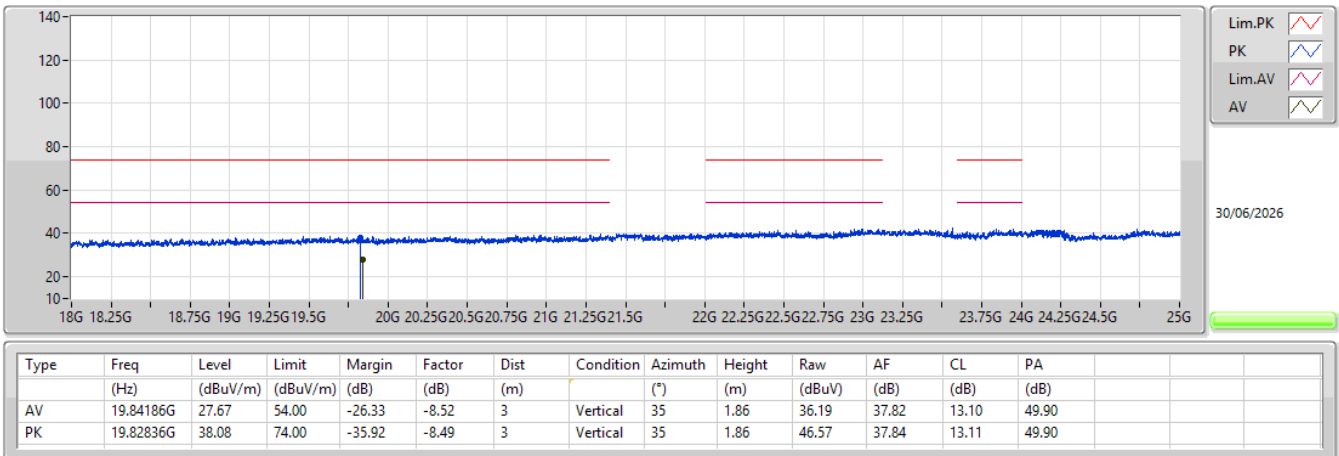
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2480MHz_TX



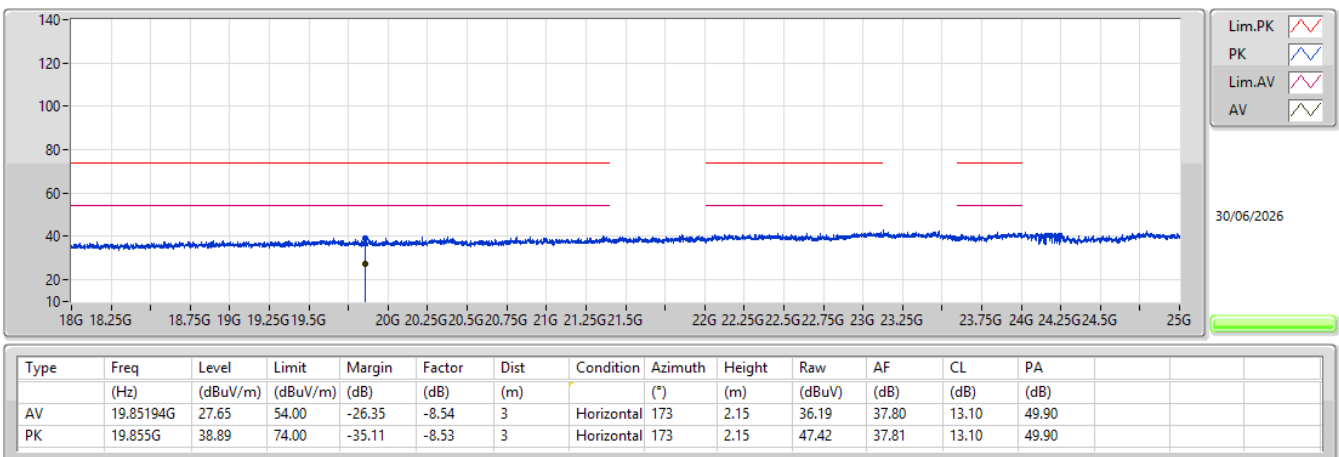
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2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX





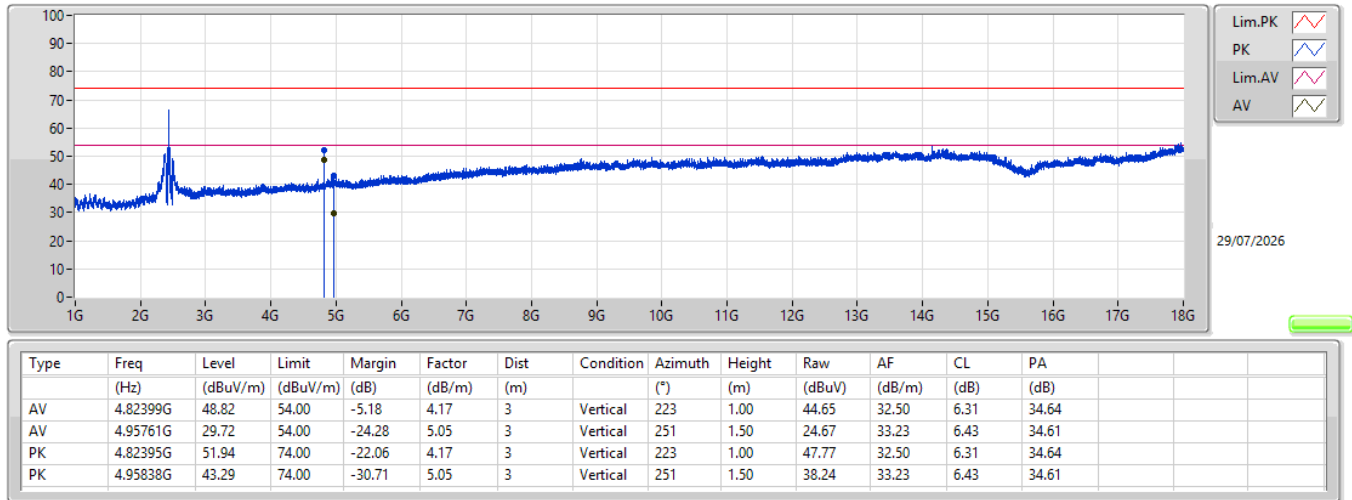
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.82399G	48.82	54.00	-5.18	3	Vertical	223	1.00
Mode 2	Pass	AV	11.488G	45.96	54.00	-8.04	3	Vertical	219	1.10

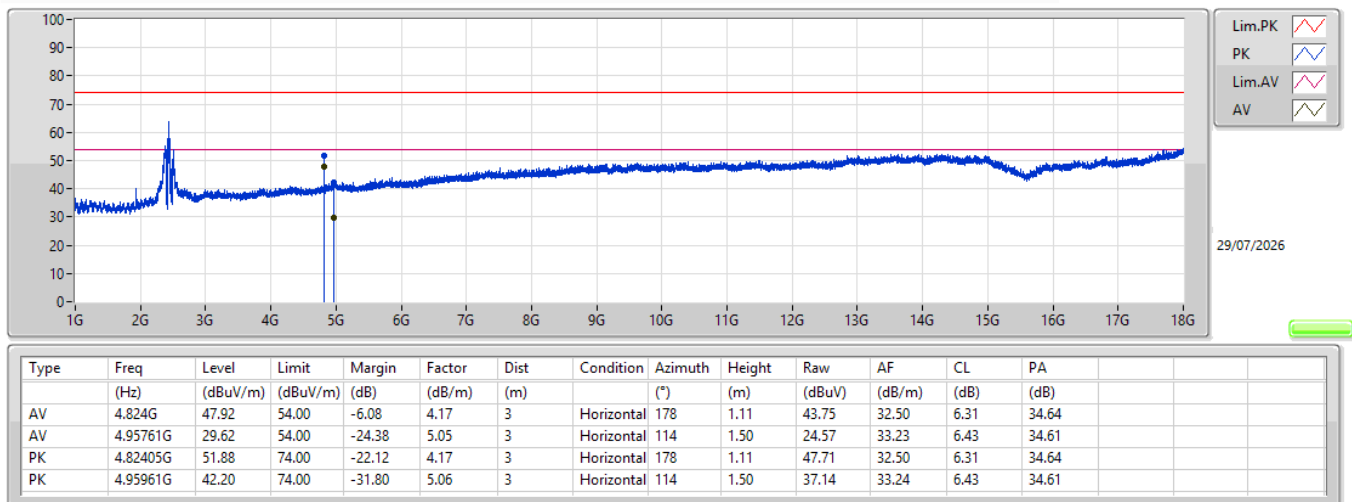
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.82399G	48.82	54.00	-5.18	3	Vertical	223	1.00
Mode 1	Pass	AV	4.95761G	29.72	54.00	-24.28	3	Vertical	251	1.50
Mode 1	Pass	PK	4.82395G	51.94	74.00	-22.06	3	Vertical	223	1.00
Mode 1	Pass	PK	4.95838G	43.29	74.00	-30.71	3	Vertical	251	1.50
Mode 1	Pass	AV	4.824G	47.92	54.00	-6.08	3	Horizontal	178	1.11
Mode 1	Pass	AV	4.95761G	29.62	54.00	-24.38	3	Horizontal	114	1.50
Mode 1	Pass	PK	4.82405G	51.88	74.00	-22.12	3	Horizontal	178	1.11
Mode 1	Pass	PK	4.95961G	42.20	74.00	-31.80	3	Horizontal	114	1.50
Mode 1	Pass	PK	20.994G	29.75	74.00	-44.25	3	Vertical	360	1.00
Mode 1	Pass	PK	20.991G	28.17	74.00	-45.83	3	Horizontal	0	1.00
Mode 2	Pass	AV	4.96204G	30.79	54.00	-23.21	3	Vertical	296	2.68
Mode 2	Pass	AV	11.488G	45.96	54.00	-8.04	3	Vertical	219	1.10
Mode 2	Pass	PK	4.95112G	43.08	74.00	-30.92	3	Vertical	296	2.68
Mode 2	Pass	PK	11.49056G	57.98	74.00	-16.02	3	Vertical	219	1.10
Mode 2	Pass	AV	4.95887G	30.66	54.00	-23.34	3	Horizontal	327	1.50
Mode 2	Pass	AV	11.49213G	44.24	54.00	-9.76	3	Horizontal	0	2.42
Mode 2	Pass	PK	4.95856G	43.29	74.00	-30.71	3	Horizontal	327	1.50
Mode 2	Pass	PK	11.49185G	56.94	74.00	-17.06	3	Horizontal	0	2.42
Mode 2	Pass	PK	21.43G	40.36	68.20	-27.84	3	Vertical	0	1.00
Mode 2	Pass	PK	21.136G	40.25	74.00	-33.75	3	Horizontal	360	1.00

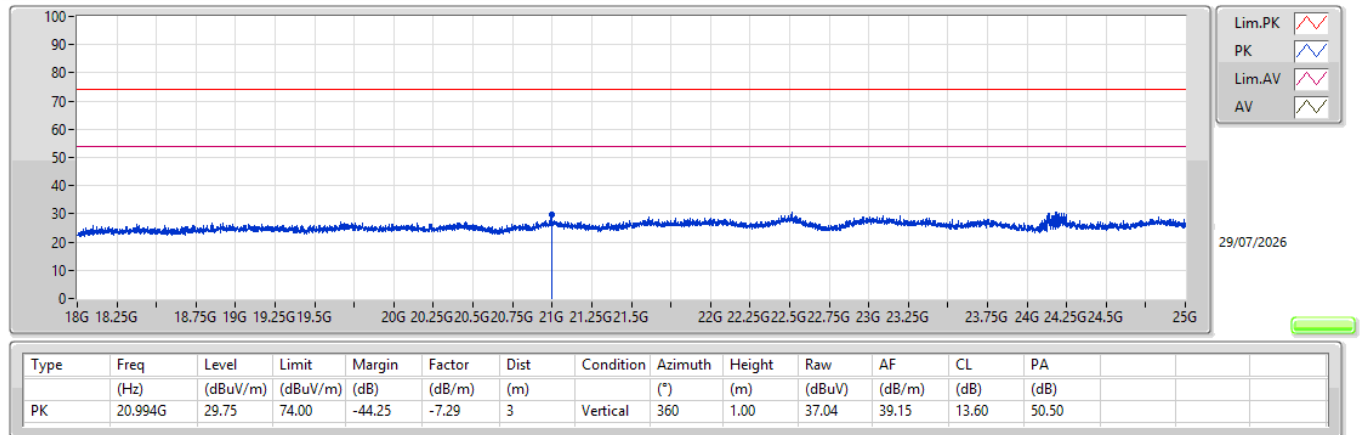
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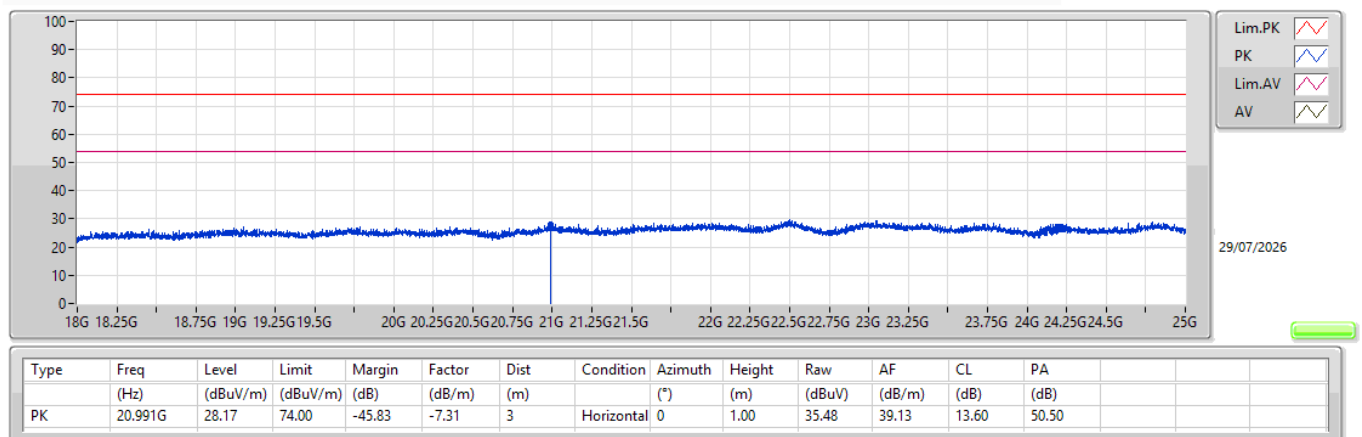
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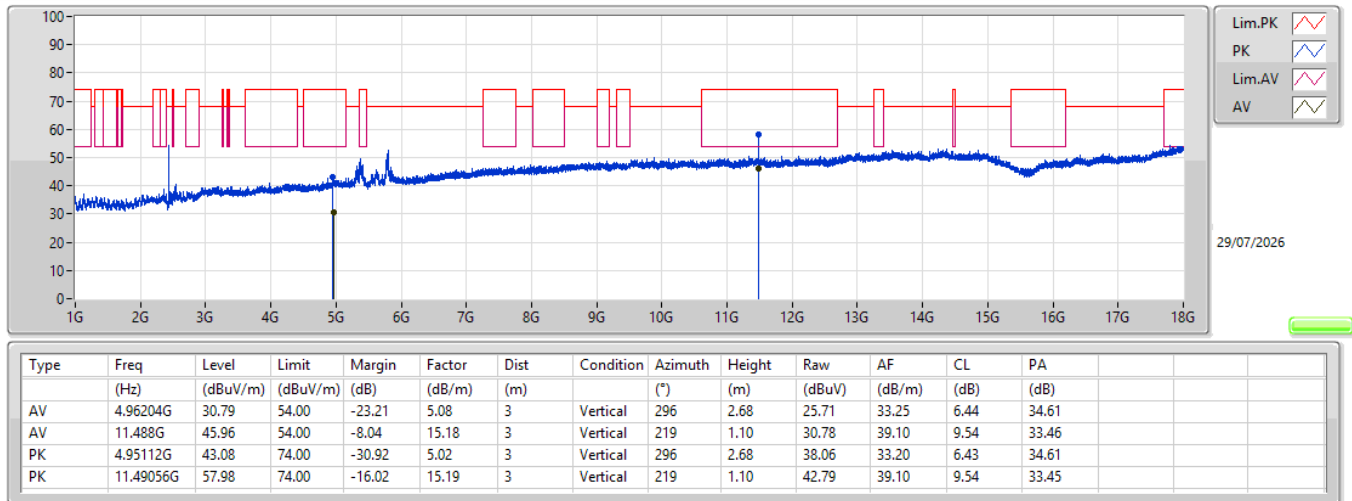
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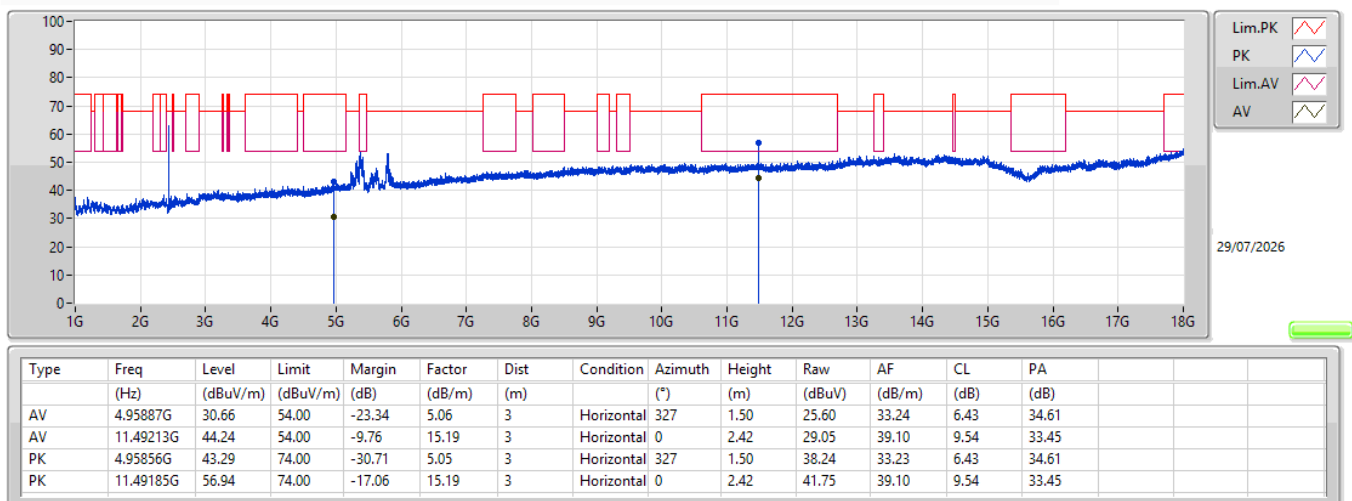
Mode 1



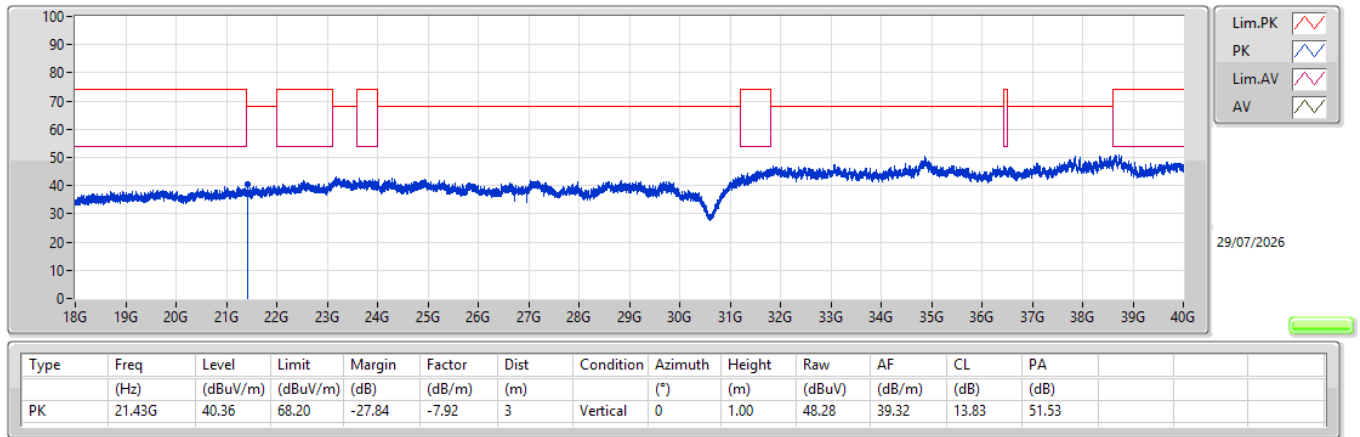
Mode 2



Mode 2



Mode 2



Mode 2

