

FCC Radio Test Report

FCC ID : HBW-C31FXXW
Equipment : Secure View Floodlight Camera
Brand Name : myQ
Model Name : MYQC31FXXW
Applicant : The Chamberlain Group LLC
300 Windsor Drive Oak Brook, IL 60523 USA
Manufacturer : The Chamberlain Group, LLC
300 Windsor Drive Oak Brook, IL 60523 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 05, 2026, and testing was started from Aug. 06, 2026 and completed on Sep. 03, 2026. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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History of this test report

[illegible]

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: 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(Port1)
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX(Port2)
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX(Port1)
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX(Port2)

Note:

- Bluetooth LE uses a GFSK (1Mbps/2Mbps) 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.	Brand	Model Name	Antenna Type	Connector	Support
1	Universal Global Scientific Industrial Co., Ltd.	WA-P-LA-02-336 / 46-501200-01	PIFA	I-Pex	WLAN 2.4G /BLE
2	Universal Global Scientific Industrial Co., Ltd.	WA-P-LA-01-113 / 46-501201-01	PIFA	I-Pex	WLAN 2.4G /BLE

Ant.	Gain (dBi)	
	2.4G	BT
1	3.34	3.34
2	3.38	3.38

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Ant. 1 and Ant. 2 could transmit/receive.

For BT function:

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

Ant. 1 and Ant. 2 could transmit/receive.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Switching Power Supply		
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)_Nss1_1TX(Port1)	0.632	1.99	395u	3k
BT-LE(1Mbps)_Nss1_1TX(Port2)	0.632	1.99	395u	3k
BT-LE(2Mbps)_Nss1_1TX(Port1)	0.335	4.75	209.375u	5k
BT-LE(2Mbps)_Nss1_1TX(Port2)	0.336	4.74	210u	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	CON04-HY	Lego Lin	22.9~24.6°C / 52~55%	03/Sep/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
RF Conducted	TH06-HY	Xun Hsieh	23.4~23.9°C / 52~55%	19/Aug/2026~20/Aug/2026
Radiated	03CH24-HY	Henry Ho	21.3~22.7°C / 51~59%	06/Aug/2026~31/Aug/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	RTK MP Tool (AmebaPRO2 mptool 1v9.7)
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Mode	Power Setting
BT-LE(1Mbps)_Nss1_1TX(Port1)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(1Mbps)_Nss1_1TX(Port2)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)_Nss1_1TX(Port1)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)_Nss1_1TX(Port2)	-
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	Switching Power Supply

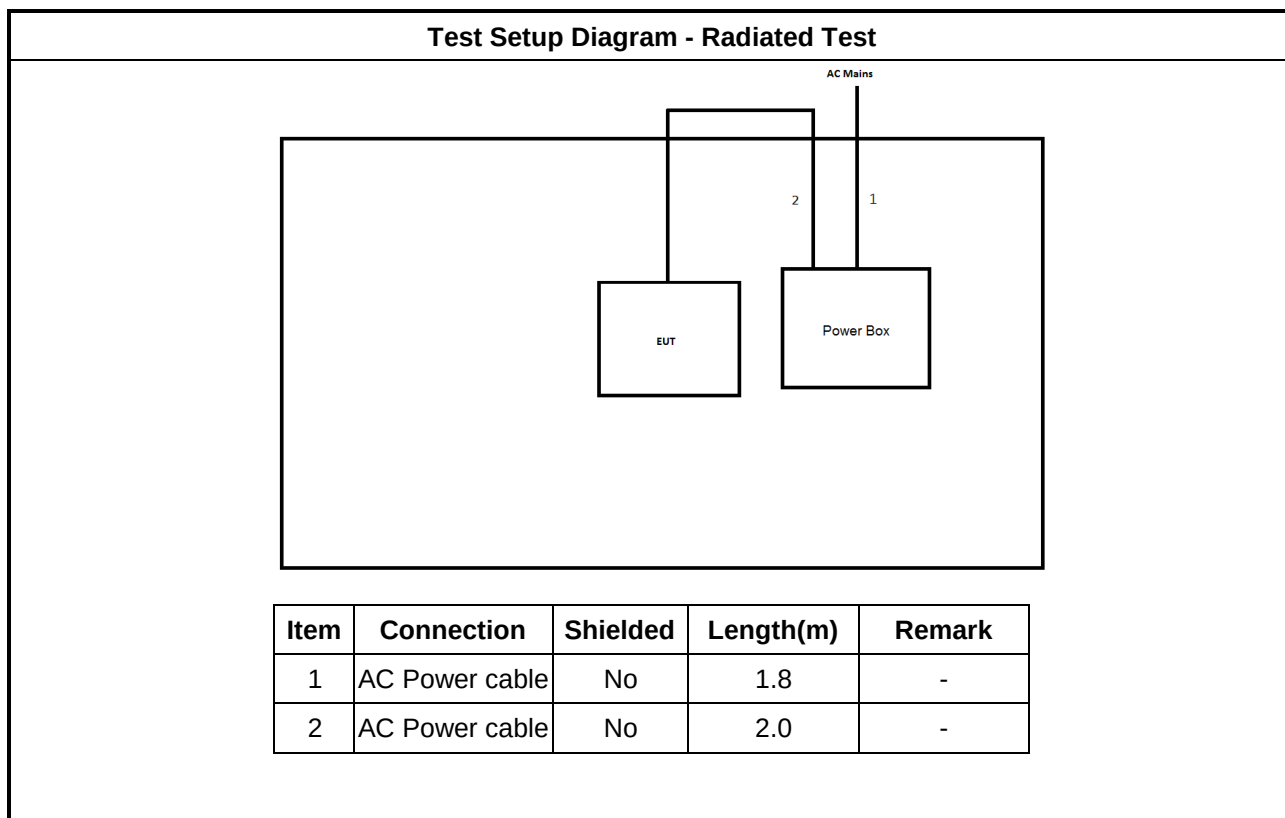
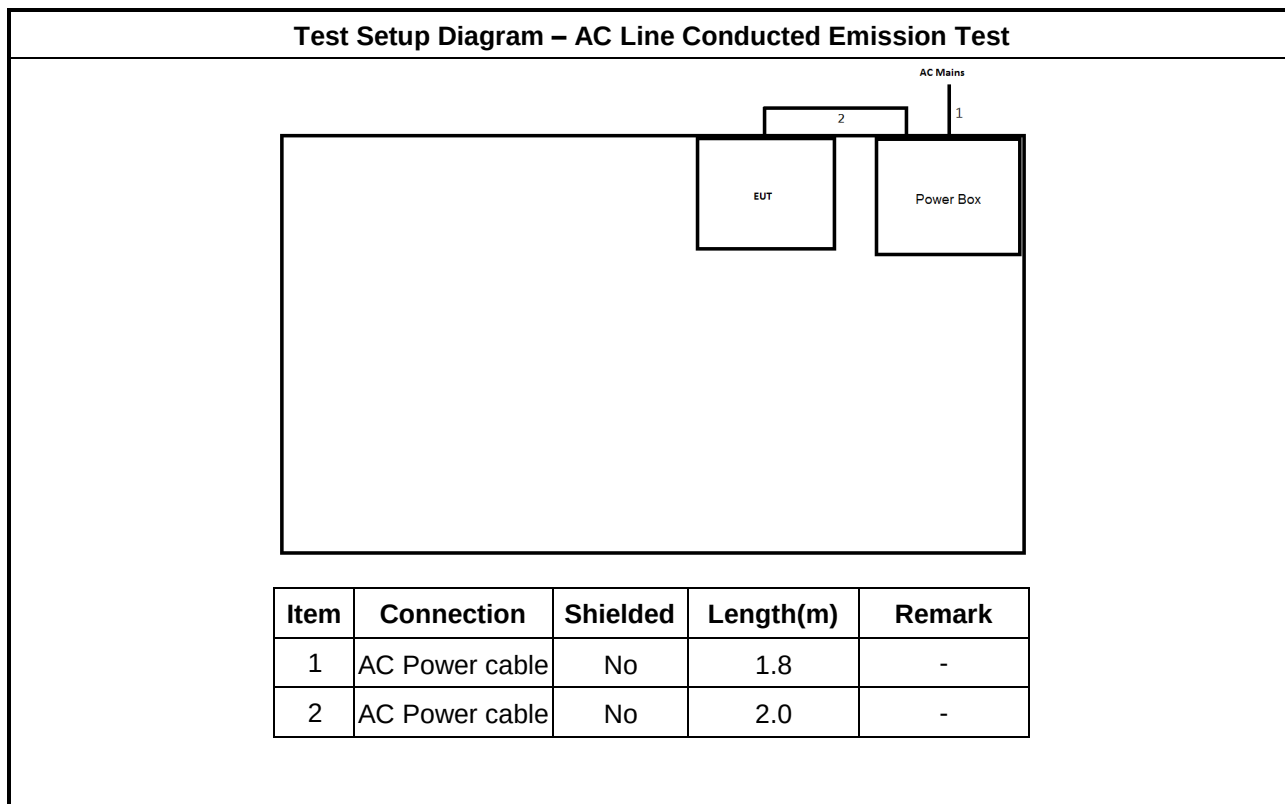
The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

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	Switching Power Supply		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V(Port 1)	V(Port 2)

2.3 Support Equipment

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

2.4 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

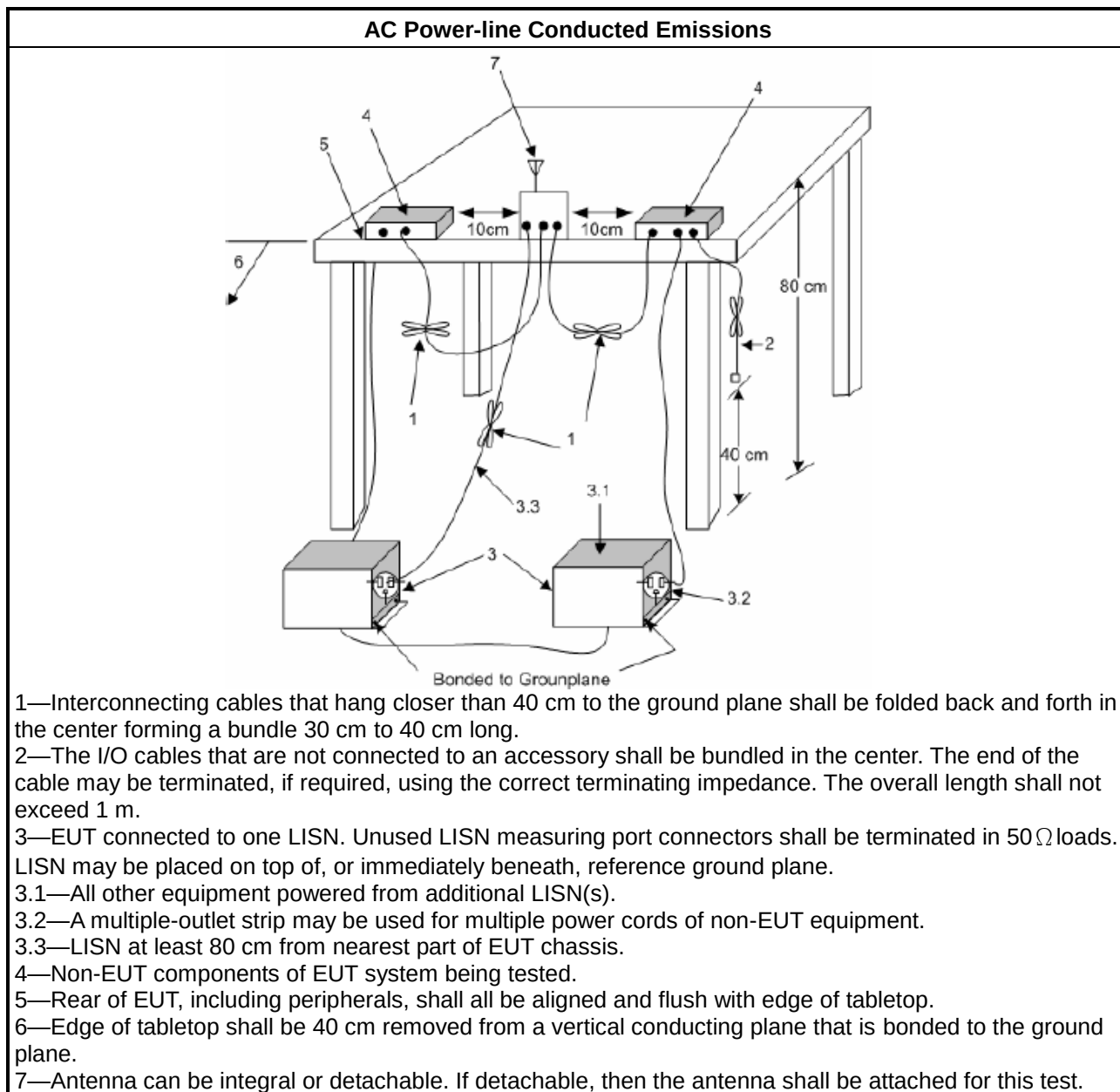
Test Method
▪ Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

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.

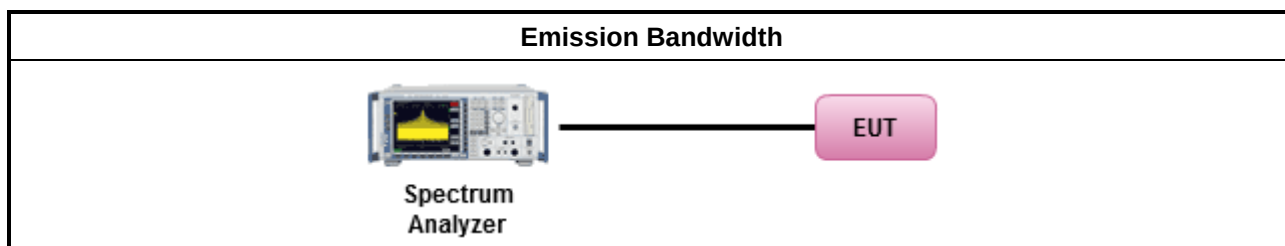
3.2.2 Measuring Instruments

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.	

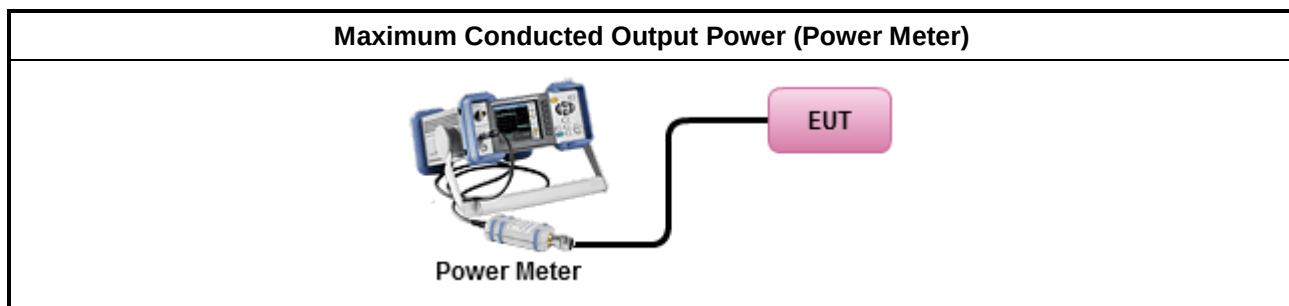
3.3.2 Measuring Instruments

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

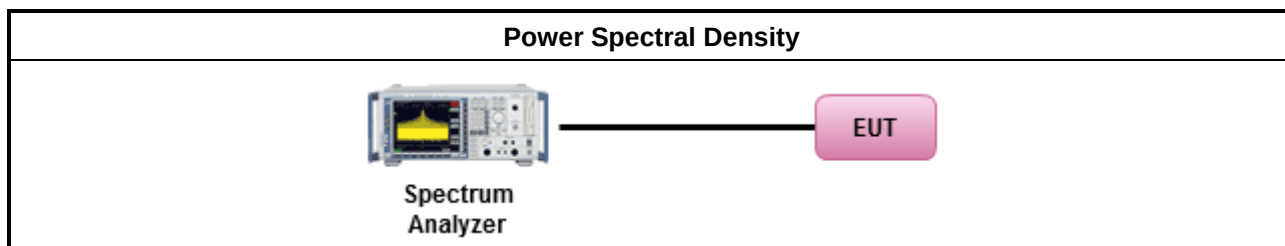
3.4.2 Measuring Instruments

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.	

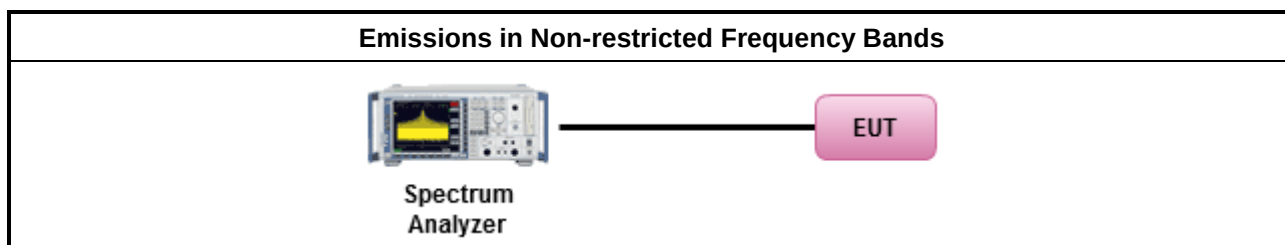
3.5.2 Measuring Instruments

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

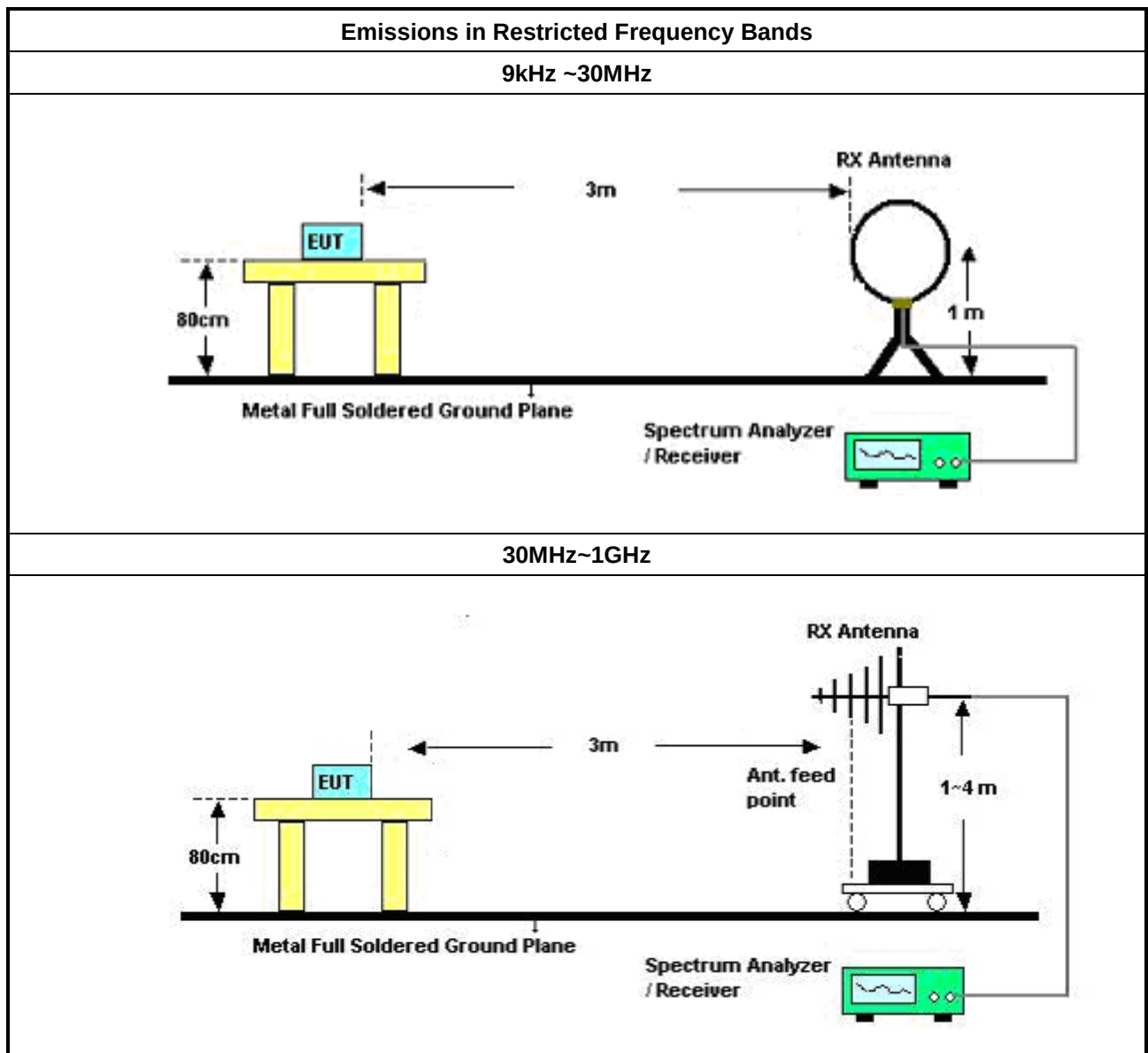
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted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

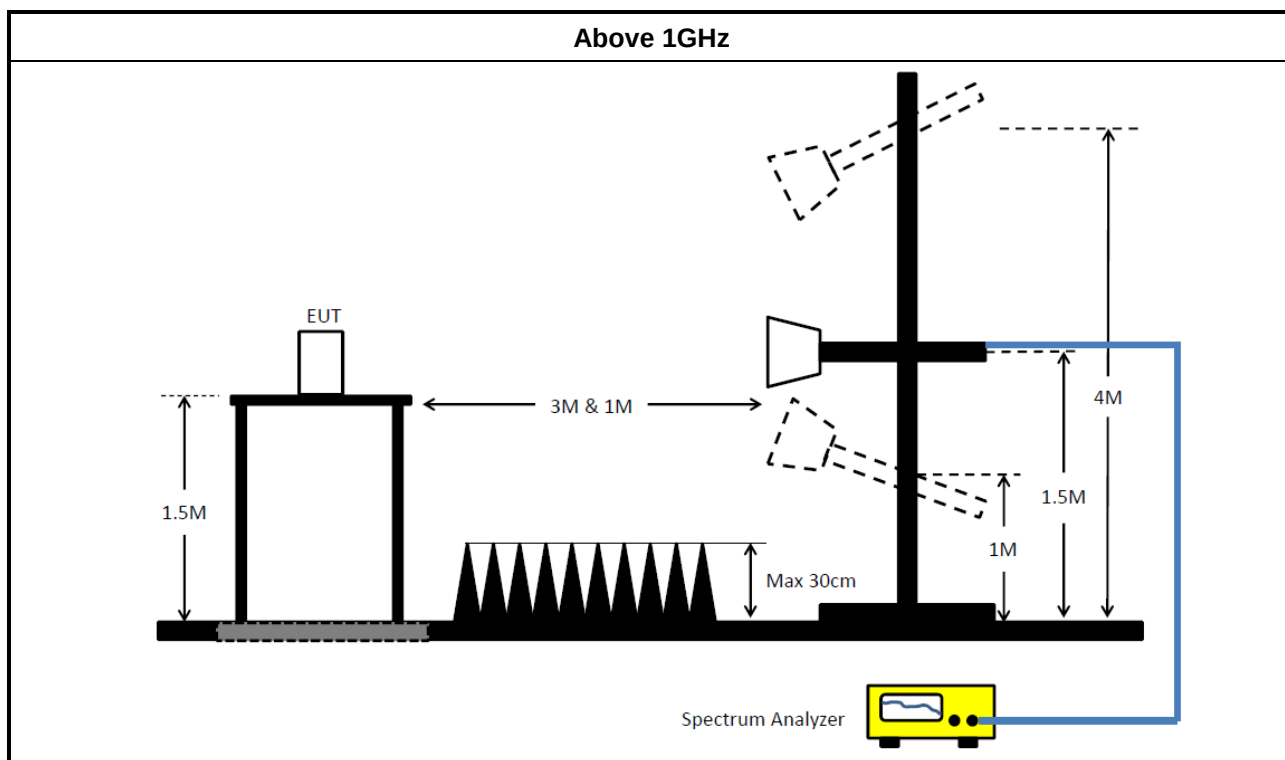
3.6.4 Measurement Results Calculation

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
LISN(Artificial Mains Network)	SCHWARZBECK	NSLK 8127	8127477	9kHz ~ 30MHz	15/May/2026	14/May/2027
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	25/Feb/2026	24/Feb/2027
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	1056	9kHz ~ 30MHz	24/Jun/2026	23/Jun/2027
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	101029	10Hz~40GHz	30/Oct/2025	29/Oct/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	29/Oct/2025	28/Oct/2026
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	26/Mar/2026	25/Mar/2027
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	26/Mar/2026	25/Mar/2027
SENSE-15247_FS	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
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	14/Aug/2026	13/Aug/2027
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	28/Jul/2026	27/Jul/2027
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	08/Dec/2025	07/Dec/2026
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101877	10Hz~44GHz	11/May/2026	10/May/2027
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2026	15/Mar/2027
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	12/Apr/2026	11/Apr/2027
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1534	1GHz~18GHz	11/Mar/2026	10/Mar/2027
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	29/Jul/2026	28/Jul/2027
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-cable-01	9kHz~40GHz	02/Oct/2025	01/Oct/2026



Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Pre-Amplifier	Aglient	8447D	2944A06292	30MHz~1GHz	07/Apr/2026	06/Apr/2027
Amplifier	EM	EM01G18G	060870	1GHz~18GHz	07/Aug/2026	06/Aug/2027
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	20/May/2026	19/May/2027
SENSE-15247-FS	Sporton	V5.11.24	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

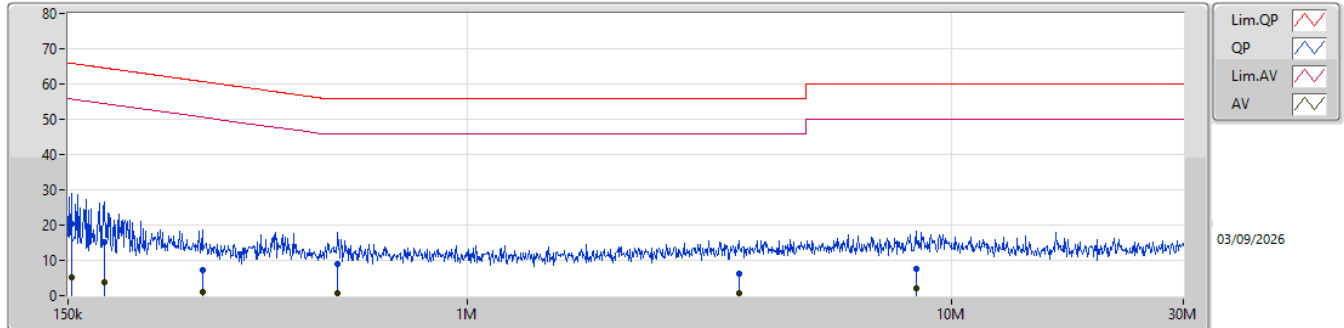
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	4.122M	1.25	46.00	-44.75	Neutral

Result

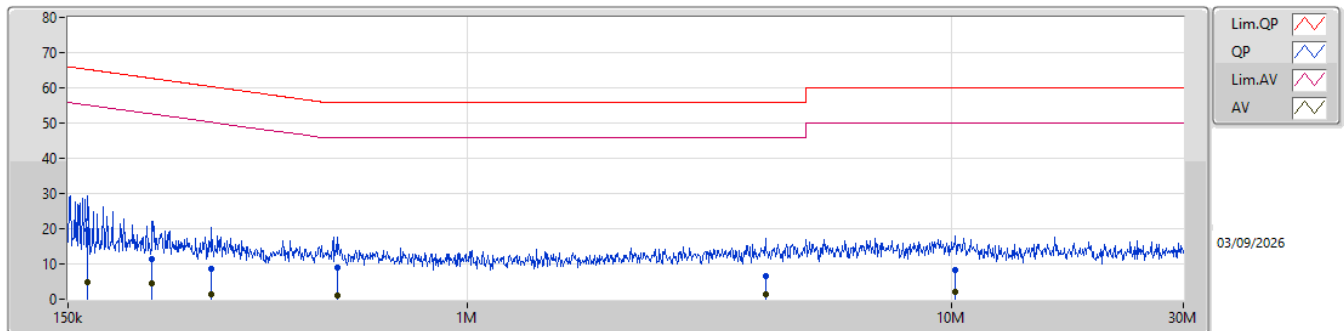
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	152.414k	20.42	65.87	-45.45	Line
Mode 1	Pass	AV	152.414k	5.11	55.87	-50.76	Line
Mode 1	Pass	QP	178.091k	15.06	64.57	-49.51	Line
Mode 1	Pass	AV	178.091k	3.64	54.57	-50.93	Line
Mode 1	Pass	QP	284.109k	7.33	60.70	-53.37	Line
Mode 1	Pass	AV	284.109k	0.96	50.70	-49.74	Line
Mode 1	Pass	QP	540.273k	8.96	56.00	-47.04	Line
Mode 1	Pass	AV	540.273k	0.77	46.00	-45.23	Line
Mode 1	Pass	QP	3.627M	6.09	56.00	-49.91	Line
Mode 1	Pass	AV	3.627M	0.76	46.00	-45.24	Line
Mode 1	Pass	QP	8.422M	7.65	60.00	-52.35	Line
Mode 1	Pass	AV	8.422M	2.23	50.00	-47.77	Line
Mode 1	Pass	QP	164.425k	19.49	65.24	-45.75	Neutral
Mode 1	Pass	AV	164.425k	4.75	55.24	-50.49	Neutral
Mode 1	Pass	QP	223.595k	11.33	62.69	-51.36	Neutral
Mode 1	Pass	AV	223.595k	4.57	52.69	-48.12	Neutral
Mode 1	Pass	QP	296.863k	8.76	60.32	-51.56	Neutral
Mode 1	Pass	AV	296.863k	1.42	50.32	-48.90	Neutral
Mode 1	Pass	QP	538.12k	9.01	56.00	-46.99	Neutral
Mode 1	Pass	AV	538.12k	1.03	46.00	-44.97	Neutral
Mode 1	Pass	QP	4.122M	6.59	56.00	-49.41	Neutral
Mode 1	Pass	AV	4.122M	1.25	46.00	-44.75	Neutral
Mode 1	Pass	QP	10.16M	8.11	60.00	-51.89	Neutral
Mode 1	Pass	AV	10.16M	2.13	50.00	-47.87	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	152.414k	20.42	65.87	-45.45	10.51	Line	9.91	0.14	0.17	10.20								
AV	152.414k	5.11	55.87	-50.76	10.51	Line	-5.40	0.14	0.17	10.20								
QP	178.091k	15.06	64.57	-49.51	10.53	Line	4.53	0.15	0.15	10.23								
AV	178.091k	3.64	54.57	-50.93	10.53	Line	-6.89	0.15	0.15	10.23								
QP	284.109k	7.33	60.70	-53.37	10.47	Line	-3.14	0.15	0.11	10.21								
AV	284.109k	0.96	50.70	-49.74	10.47	Line	-9.51	0.15	0.11	10.21								
QP	540.273k	8.96	56.00	-47.04	10.39	Line	-1.43	0.16	0.09	10.14								
AV	540.273k	0.77	46.00	-45.23	10.39	Line	-9.62	0.16	0.09	10.14								
QP	3.627M	6.09	56.00	-49.91	10.60	Line	-4.51	0.29	0.12	10.19								
AV	3.627M	0.76	46.00	-45.24	10.60	Line	-9.84	0.29	0.12	10.19								
QP	8.422M	7.65	60.00	-52.35	10.81	Line	-3.16	0.45	0.22	10.14								
AV	8.422M	2.23	50.00	-47.77	10.81	Line	-8.58	0.45	0.22	10.14								

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	164.425k	19.49	65.24	-45.75	10.54	Neutral	8.95	0.16	0.16	10.22								
AV	164.425k	4.75	55.24	-50.49	10.54	Neutral	-5.79	0.16	0.16	10.22								
QP	223.595k	11.33	62.69	-51.36	10.53	Neutral	0.80	0.16	0.13	10.24								
AV	223.595k	4.57	52.69	-48.12	10.53	Neutral	-5.96	0.16	0.13	10.24								
QP	296.863k	8.76	60.32	-51.56	10.48	Neutral	-1.72	0.17	0.11	10.20								
AV	296.863k	1.42	50.32	-48.90	10.48	Neutral	-9.06	0.17	0.11	10.20								
QP	538.12k	9.01	56.00	-46.99	10.41	Neutral	-1.40	0.18	0.09	10.14								
AV	538.12k	1.03	46.00	-44.97	10.41	Neutral	-9.38	0.18	0.09	10.14								
QP	4.122M	6.59	56.00	-49.41	10.60	Neutral	-4.01	0.28	0.13	10.19								
AV	4.122M	1.25	46.00	-44.75	10.60	Neutral	-9.35	0.28	0.13	10.19								
QP	10.16M	8.11	60.00	-51.89	10.79	Neutral	-2.68	0.42	0.24	10.13								
AV	10.16M	2.13	50.00	-47.87	10.79	Neutral	-8.66	0.42	0.24	10.13								

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)_Nss1_1TX(Port1)	651.25k	1.028M	1M03F1D	591.25k	1.011M
BT-LE(1Mbps)_Nss1_1TX(Port2)	718.75k	1.044M	1M04F1D	620k	1.016M
BT-LE(2Mbps)_Nss1_1TX(Port1)	1.228M	2.076M	2M08F1D	817.5k	2.066M
BT-LE(2Mbps)_Nss1_1TX(Port2)	1.28M	2.086M	2M09F1D	967.5k	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

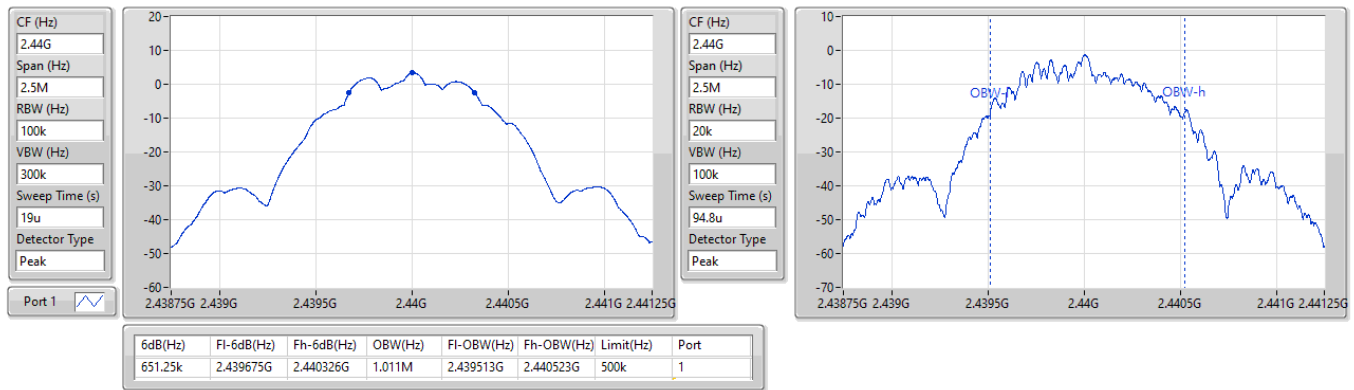
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
BT-LE(1Mbps)_Nss1_1TX(Port1)	-	-	-	-	-	-
2402MHz	Pass	500k	648.75k	1.028M		
2440MHz	Pass	500k	651.25k	1.011M		
2480MHz	Pass	500k	591.25k	1.028M		
BT-LE(1Mbps)_Nss1_1TX(Port2)	-	-	-	-	-	-
2402MHz	Pass	500k			648.75k	1.016M
2440MHz	Pass	500k			620k	1.044M
2480MHz	Pass	500k			718.75k	1.038M
BT-LE(2Mbps)_Nss1_1TX(Port1)	-	-	-	-	-	-
2402MHz	Pass	500k	962.5k	2.066M		
2440MHz	Pass	500k	1.228M	2.069M		
2480MHz	Pass	500k	817.5k	2.076M		
BT-LE(2Mbps)_Nss1_1TX(Port2)	-	-	-	-	-	-
2402MHz	Pass	500k			967.5k	2.044M
2440MHz	Pass	500k			1.28M	2.066M
2480MHz	Pass	500k			1.118M	2.086M

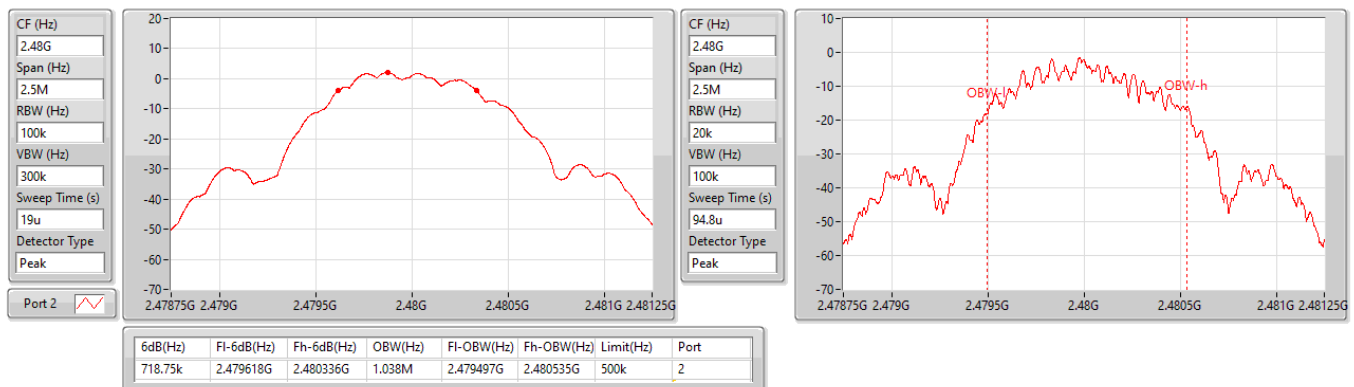
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)_Nss1_1TX(Port1)
EBW-DTS
2440MHz

19/08/2026

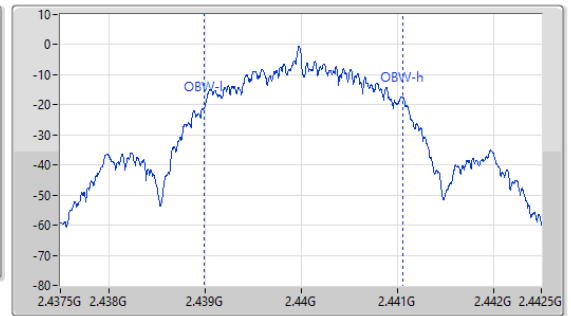
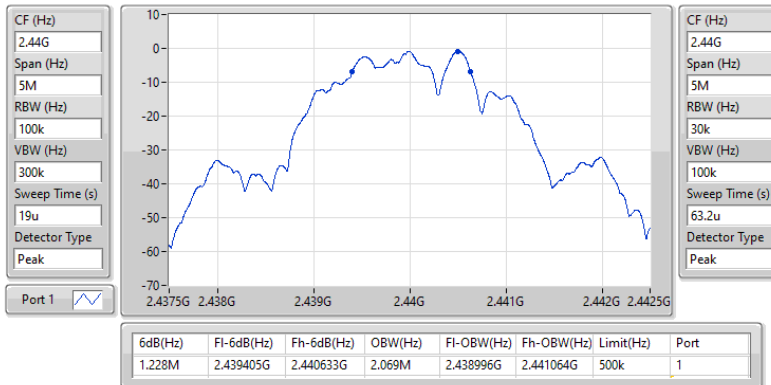

2.4-2.4835GHz_BT-LE(1Mbps)_Nss1_1TX(Port2)
EBW-DTS
2480MHz

19/08/2026

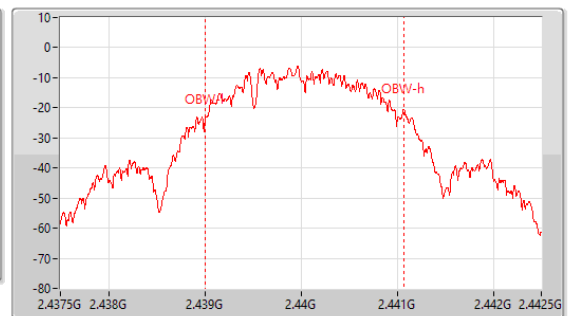
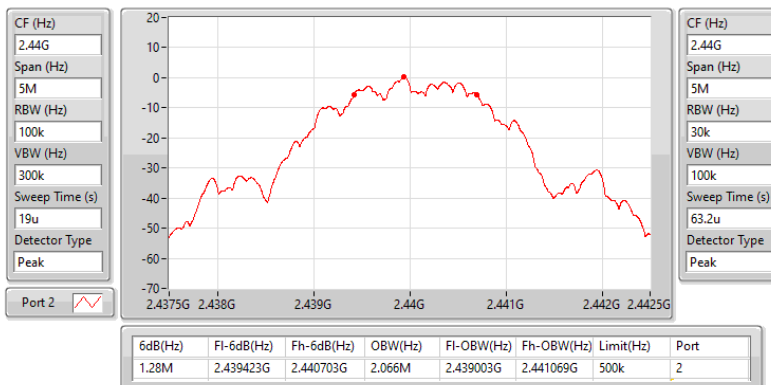


2.4-2.4835GHz_BT-LE(2Mbps)_Nss1_1TX(Port1)
EBW-DTS
2440MHz

19/08/2026


2.4-2.4835GHz_BT-LE(1Mbps)_Nss1_1TX(Port2)
EBW-DTS
2440MHz

19/08/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)_Nss1_1TX(Port1)	4.39	0.00275
BT-LE(1Mbps)_Nss1_1TX(Port2)	4.30	0.00269
BT-LE(2Mbps)_Nss1_1TX(Port1)	3.99	0.00251
BT-LE(2Mbps)_Nss1_1TX(Port2)	3.34	0.00216

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	3.38	4.39	30.00
2440MHz	Pass	3.38	3.69	30.00
2480MHz	Pass	3.38	4.15	30.00
BT-LE(1Mbps)_Nss1_1TX(Port2)	-	-	-	-
2402MHz	Pass	3.38	4.30	30.00
2440MHz	Pass	3.38	4.25	30.00
2480MHz	Pass	3.38	4.18	30.00
BT-LE(2Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	3.38	3.99	30.00
2440MHz	Pass	3.38	3.47	30.00
2480MHz	Pass	3.38	3.93	30.00
BT-LE(2Mbps)_Nss1_1TX(Port2)	-	-	-	-
2402MHz	Pass	3.38	3.31	30.00
2440MHz	Pass	3.38	3.29	30.00
2480MHz	Pass	3.38	3.34	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)_Nss1_1TX(Port1)	-11.31
BT-LE(1Mbps)_Nss1_1TX(Port2)	-11.15
BT-LE(2Mbps)_Nss1_1TX(Port1)	-14.10
BT-LE(2Mbps)_Nss1_1TX(Port2)	-14.44

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	3.38	-11.62	8.00
2440MHz	Pass	3.38	-11.31	8.00
2480MHz	Pass	3.38	-11.88	8.00
BT-LE(1Mbps)_Nss1_1TX(Port2)	-	-	-	-
2402MHz	Pass	3.38	-11.81	8.00
2440MHz	Pass	3.38	-11.15	8.00
2480MHz	Pass	3.38	-11.33	8.00
BT-LE(2Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	3.38	-14.10	8.00
2440MHz	Pass	3.38	-14.62	8.00
2480MHz	Pass	3.38	-14.28	8.00
BT-LE(2Mbps)_Nss1_1TX(Port2)	-	-	-	-
2402MHz	Pass	3.38	-14.44	8.00
2440MHz	Pass	3.38	-14.90	8.00
2480MHz	Pass	3.38	-15.08	8.00

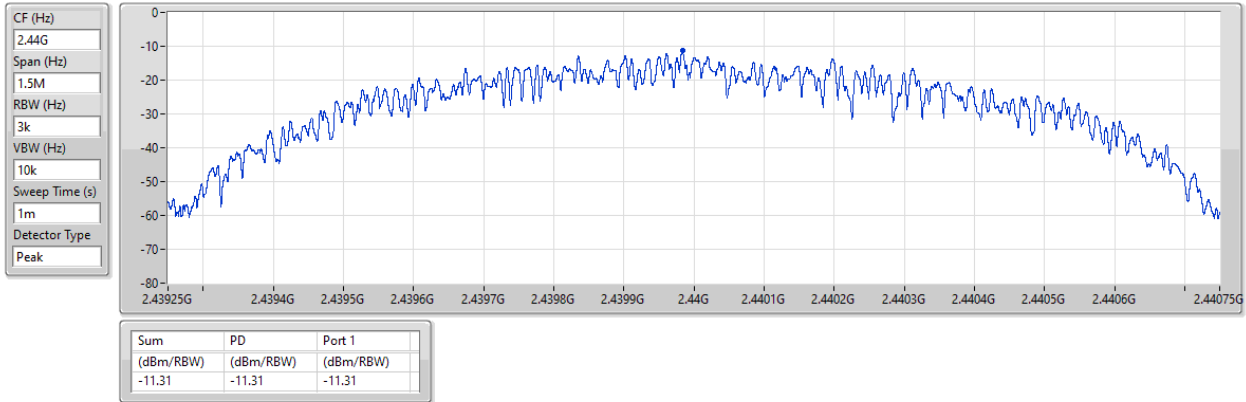
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)_Nss1_1TX(Port1)

PSD

2440MHz

19/08/2026

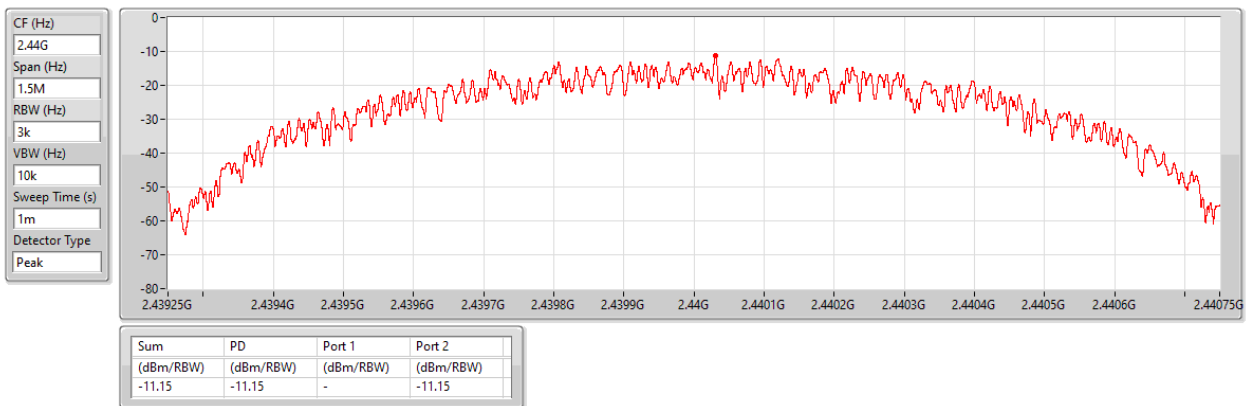


2.4-2.4835GHz_BT-LE(1Mbps)_Nss1_1TX(Port2)

PSD

2440MHz

19/08/2026

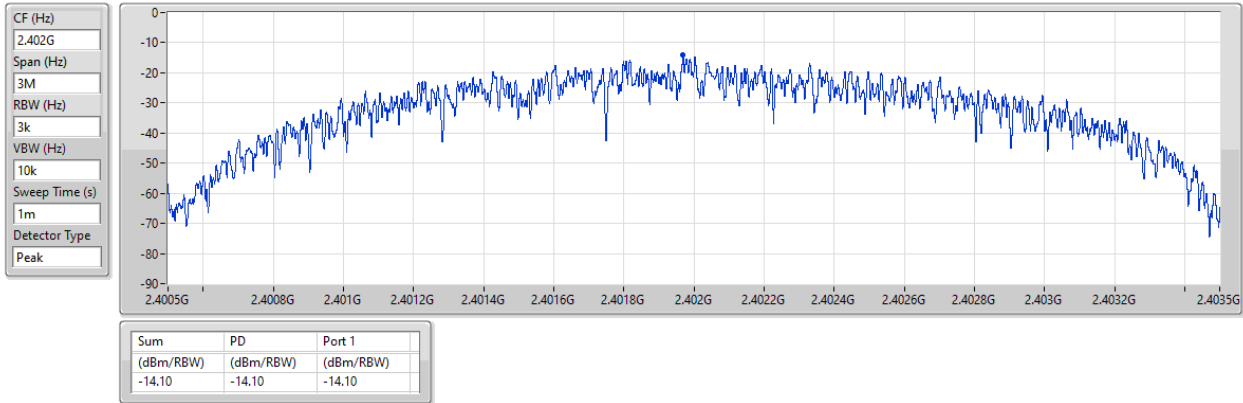


2.4-2.4835GHz_BT-LE(2Mbps)_Nss1_1TX(Port1)

PSD

2402MHz

19/08/2026

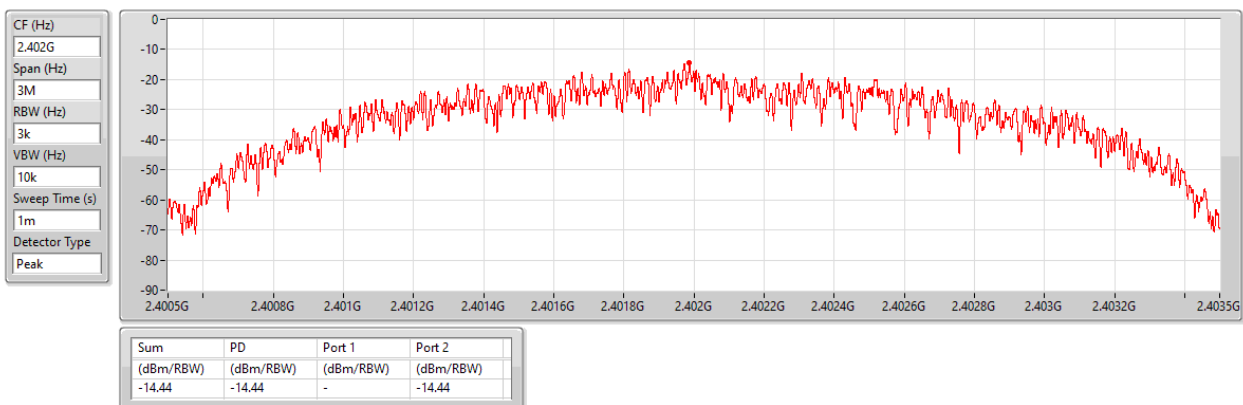


2.4-2.4835GHz_BT-LE(2Mbps)_Nss1_1TX(Port2)

PSD

2402MHz

19/08/2026



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)_Nss1_1TX(Port1)	Pass	2.402G	4.12	-25.88	2.3048G	-53.05	2.394G	-52.24	2.4G	-56.11	2.50142G	-53.94	21.72676G	-43.17	1
BT-LE(1Mbps)_Nss1_1TX(Port2)	Pass	2.402G	4.59	-25.41	2.10153G	-55.33	2.39216G	-52.77	2.4G	-55.81	2.50262G	-53.32	16.24043G	-42.86	2
BT-LE(2Mbps)_Nss1_1TX(Port1)	Pass	2.402G	3.78	-26.22	2.3001G	-54.42	2.4G	-29.23	2.4G	-28.97	2.5007G	-52.61	16.46539G	-42.71	1
BT-LE(2Mbps)_Nss1_1TX(Port2)	Pass	2.48016G	3.47	-26.53	767.9M	-55.01	2.4G	-29.42	2.4G	-28.64	2.50042G	-53.31	24.95219G	-42.52	2

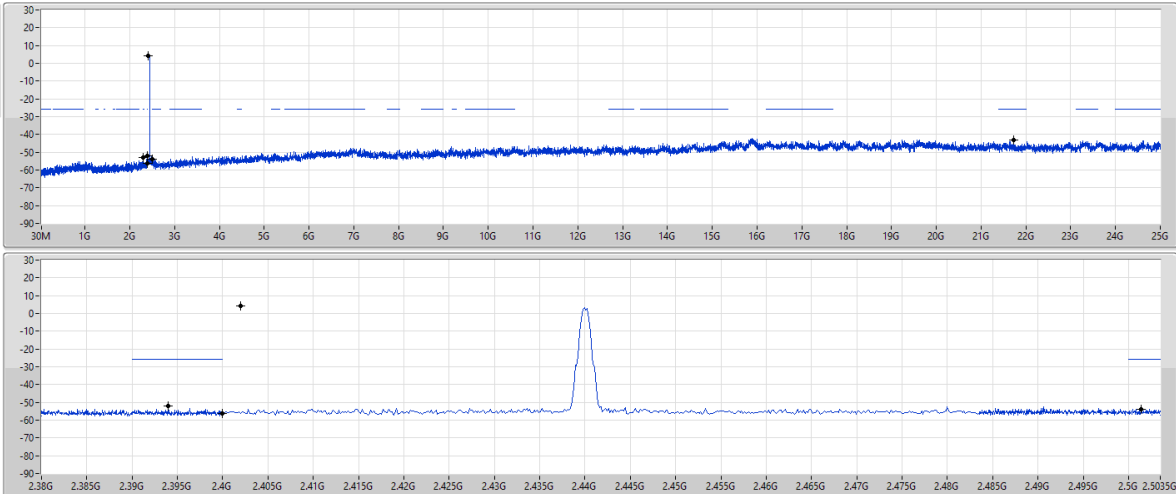
Result

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)_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	4.12	-25.88	2.05218G	-55.47	2.39536G	-52.53	2.4G	-52.29	2.50274G	-52.81	16.64817G	-42.78	1
2440MHz	Pass	2.402G	4.12	-25.88	2.3048G	-53.05	2.394G	-52.24	2.4G	-56.11	2.50142G	-53.94	21.72676G	-43.17	1
2480MHz	Pass	2.402G	4.12	-25.88	2.0557G	-55.02	2.39084G	-52.73	2.4G	-56.08	2.50318G	-53.01	16.55256G	-43.04	1
BT-LE(1Mbps)_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	4.59	-25.41	1.96758G	-54.63	2.39104G	-52.93	2.4G	-54.83	2.50318G	-52.94	16.20949G	-42.47	2
2440MHz	Pass	2.402G	4.59	-25.41	2.1732G	-55.21	2.39264G	-53.61	2.4G	-55.78	2.50242G	-53.60	16.25167G	-41.93	2
2480MHz	Pass	2.402G	4.59	-25.41	2.10153G	-55.33	2.39216G	-52.77	2.4G	-55.81	2.50262G	-53.32	16.24043G	-42.86	2
BT-LE(2Mbps)_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	3.78	-26.22	2.3001G	-54.42	2.4G	-29.23	2.4G	-28.97	2.5007G	-52.61	16.46539G	-42.71	1
2440MHz	Pass	2.402G	3.78	-26.22	737.35M	-55.61	2.3972G	-53.10	2.4G	-55.26	2.50098G	-52.60	16.27979G	-42.32	1
2480MHz	Pass	2.402G	3.78	-26.22	1.8959G	-54.43	2.39656G	-53.77	2.4G	-55.37	2.5001G	-53.83	16.24043G	-42.94	1
BT-LE(2Mbps)_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48016G	3.47	-26.53	767.9M	-55.01	2.4G	-29.42	2.4G	-28.64	2.50042G	-53.31	24.95219G	-42.52	2
2440MHz	Pass	2.48016G	3.47	-26.53	940.63M	-54.90	2.39704G	-54.16	2.4G	-54.95	2.50218G	-53.24	17.60709G	-41.58	2
2480MHz	Pass	2.48016G	3.47	-26.53	2.15323G	-54.20	2.39176G	-52.95	2.4G	-55.48	2.50258G	-52.63	23.30714G	-42.66	2

2.4-2.4835GHz_BT-LE(1Mbps)_Nss1_1TX(Port1)

CSEndB-DTS

2440MHz

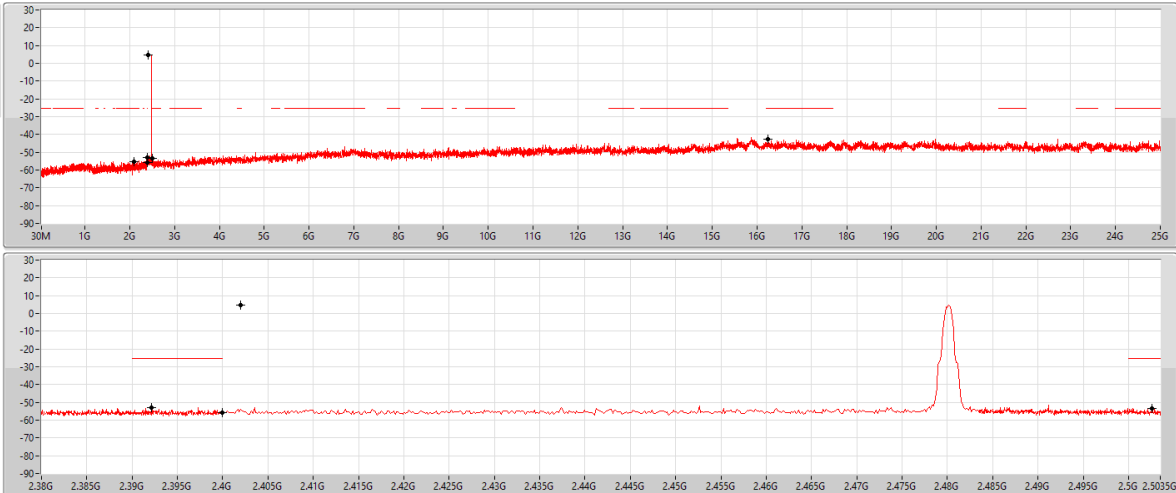
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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	4.12	-25.88	2.3048G	-53.05	2.394G	-52.24	2.4G	-56.11	2.50142G	-53.94	21.72676G	-43.17	1

2.4-2.4835GHz_BT-LE(1Mbps)_Nss1_1TX(Port2)

CSEndB-DTS

2480MHz

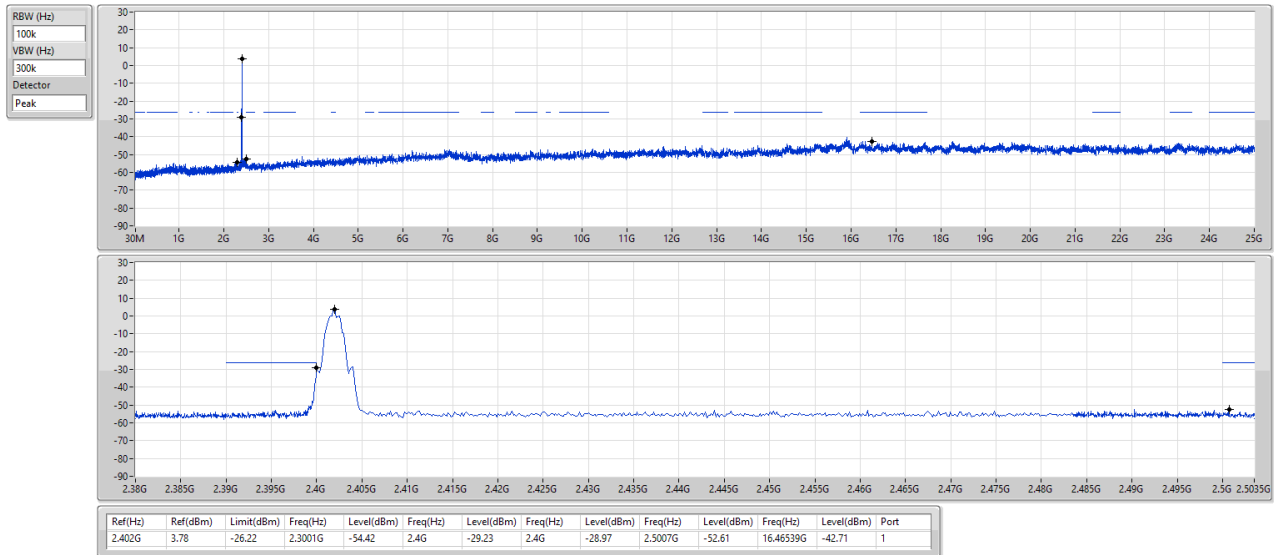
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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	4.59	-25.41	2.10153G	-55.33	2.39216G	-52.77	2.4G	-55.81	2.50262G	-53.32	16.24043G	-42.86	2

2.4-2.4835GHz_BT-LE(2Mbps)_Nss1_1TX(Port1)

CSEndB-DTS

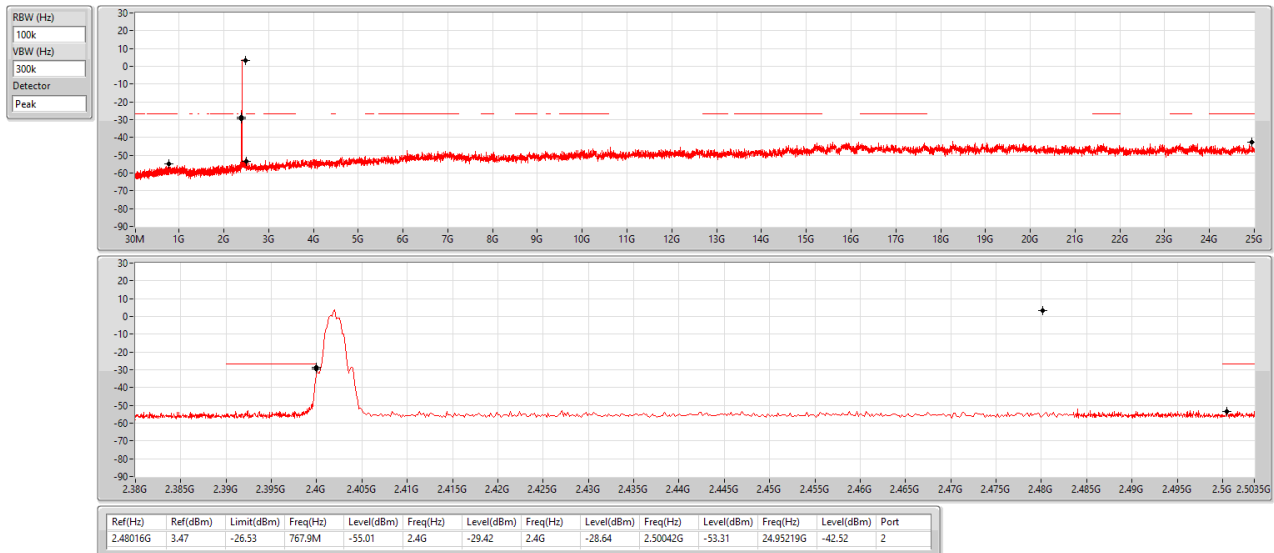
2402MHz



2.4-2.4835GHz_BT-LE(2Mbps)_Nss1_1TX(Port2)

CSEndB-DTS

2402MHz





Summary

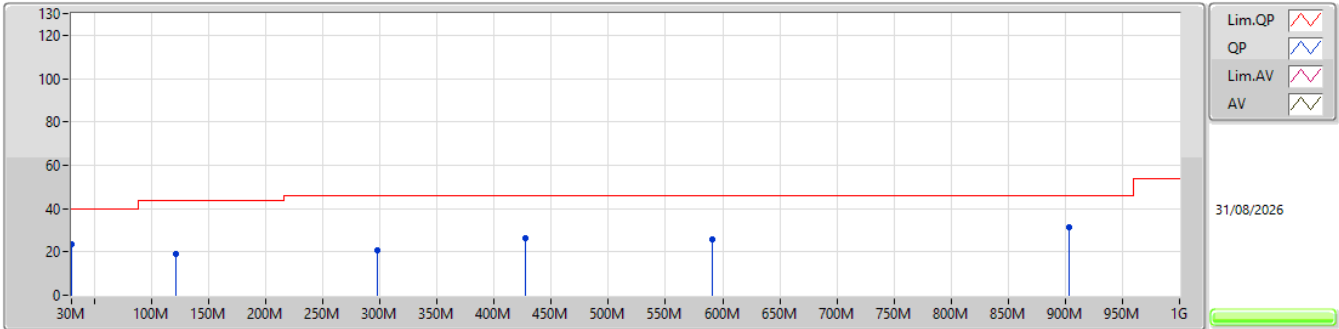
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)_1TX(Port1)	Pass	PK	130.88M	34.29	43.50	-9.21	3	Horizontal	0	1.00
BT-LE(2Mbps)_1TX(Port2)	Pass	PK	30M	23.23	40.00	-16.77	3	Horizontal	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	23.68	40.00	-16.32	3	Vertical	360	1.00
2440MHz	Pass	PK	121.18M	18.92	43.50	-24.58	3	Vertical	360	1.00
2440MHz	Pass	PK	297.72M	20.97	46.00	-25.03	3	Vertical	360	1.00
2440MHz	Pass	PK	427.7M	26.56	46.00	-19.44	3	Vertical	360	1.00
2440MHz	Pass	PK	590.66M	25.90	46.00	-20.10	3	Vertical	360	1.00
2440MHz	Pass	PK	903M	31.13	46.00	-14.87	3	Vertical	360	1.00
2440MHz	Pass	PK	30M	23.61	40.00	-16.39	3	Horizontal	0	1.00
2440MHz	Pass	PK	130.88M	34.29	43.50	-9.21	3	Horizontal	0	1.00
2440MHz	Pass	PK	152.22M	33.32	43.50	-10.18	3	Horizontal	0	1.00
2440MHz	Pass	PK	289.96M	21.19	46.00	-24.81	3	Horizontal	0	1.00
2440MHz	Pass	PK	454.86M	27.22	46.00	-18.78	3	Horizontal	0	1.00
2440MHz	Pass	PK	873.9M	28.81	46.00	-17.19	3	Horizontal	0	1.00
BT-LE(2Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	23.13	40.00	-16.87	3	Vertical	360	1.00
2440MHz	Pass	PK	177.44M	16.56	43.50	-26.94	3	Vertical	360	1.00
2440MHz	Pass	PK	355.92M	22.14	46.00	-23.86	3	Vertical	360	1.00
2440MHz	Pass	PK	547.98M	25.56	46.00	-20.44	3	Vertical	360	1.00
2440MHz	Pass	PK	837.04M	27.54	46.00	-18.46	3	Vertical	360	1.00
2440MHz	Pass	PK	899.12M	28.87	46.00	-17.13	3	Vertical	360	1.00
2440MHz	Pass	PK	30M	23.23	40.00	-16.77	3	Horizontal	0	1.00
2440MHz	Pass	PK	138.64M	18.09	43.50	-25.41	3	Horizontal	0	1.00
2440MHz	Pass	PK	253.1M	19.11	46.00	-26.89	3	Horizontal	0	1.00
2440MHz	Pass	PK	478.14M	24.58	46.00	-21.42	3	Horizontal	0	1.00
2440MHz	Pass	PK	582.9M	26.79	46.00	-19.21	3	Horizontal	0	1.00
2440MHz	Pass	PK	903M	29.20	46.00	-16.80	3	Horizontal	0	1.00

2.4-2.4835GHz_BT-LE(2Mbps)_1TX(Port1)

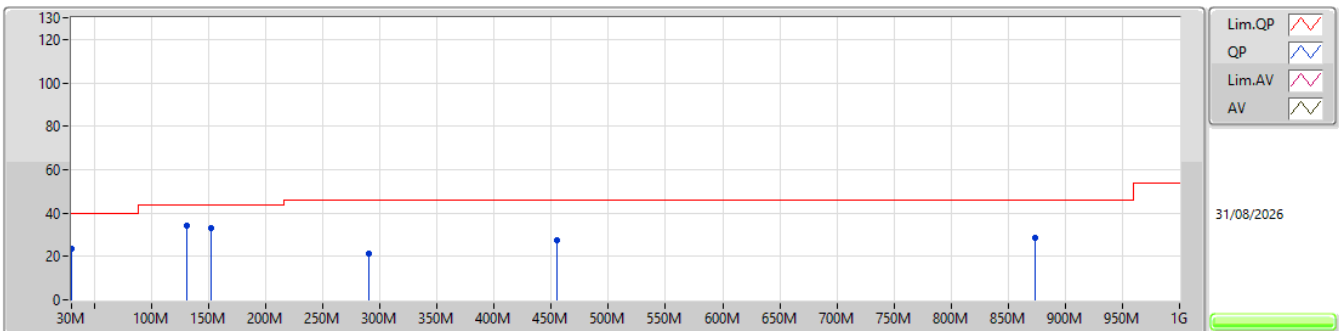
2440MHz_Adapter



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	23.68	40.00	-16.32	-3.55	3	Vertical	360	1.00	27.23	23.39	0.42	27.36
PK	121.18M	18.92	43.50	-24.58	-8.94	3	Vertical	360	1.00	27.86	17.25	0.93	27.12
PK	297.72M	20.97	46.00	-25.03	-7.12	3	Vertical	360	1.00	28.09	18.06	1.36	26.54
PK	427.7M	26.56	46.00	-19.44	-4.74	3	Vertical	360	1.00	31.30	21.27	1.58	27.59
PK	590.66M	25.90	46.00	-20.10	-2.67	3	Vertical	360	1.00	28.57	23.73	1.87	28.27
PK	903M	31.13	46.00	-14.87	0.25	3	Vertical	360	1.00	30.88	25.50	2.35	27.60

2.4-2.4835GHz_BT-LE(2Mbps)_1TX(Port1)

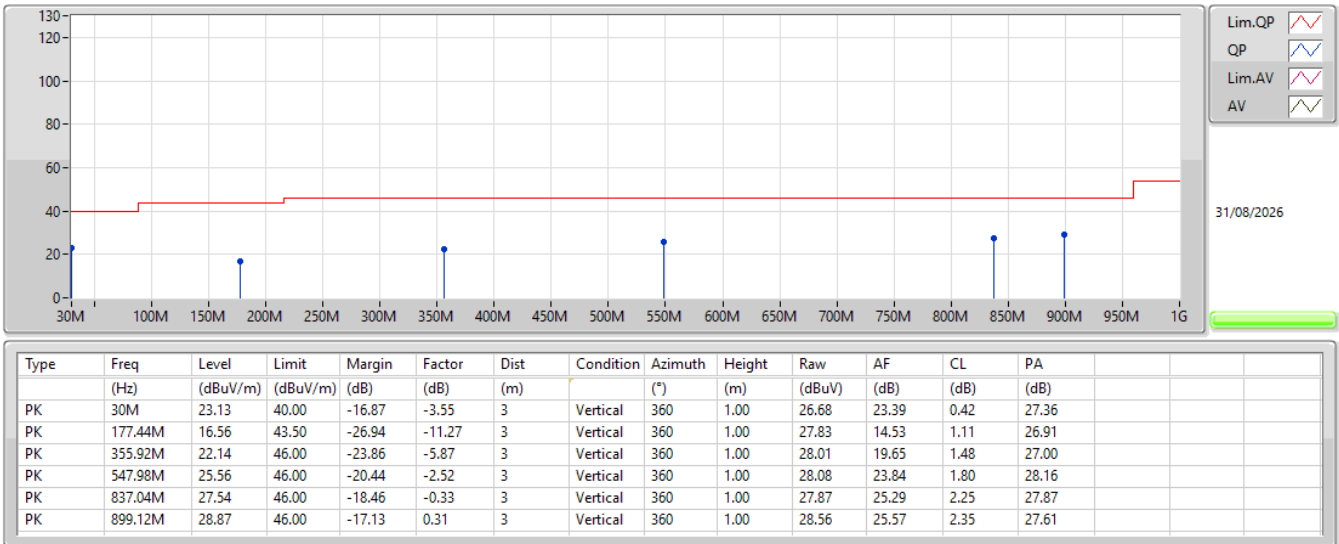
2440MHz_Adapter



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	23.61	40.00	-16.39	-3.55	3	Horizontal	0	1.00	27.16	23.39	0.42	27.36
PK	130.88M	34.29	43.50	-9.21	-9.27	3	Horizontal	0	1.00	43.56	16.86	0.96	27.09
PK	152.22M	33.32	43.50	-10.18	-10.56	3	Horizontal	0	1.00	43.88	15.42	1.02	27.00
PK	289.96M	21.19	46.00	-24.81	-7.28	3	Horizontal	0	1.00	28.47	17.92	1.34	26.54
PK	454.86M	27.22	46.00	-18.78	-4.38	3	Horizontal	0	1.00	31.60	21.75	1.63	27.76
PK	873.9M	28.81	46.00	-17.19	0.05	3	Horizontal	0	1.00	28.76	25.46	2.32	27.73

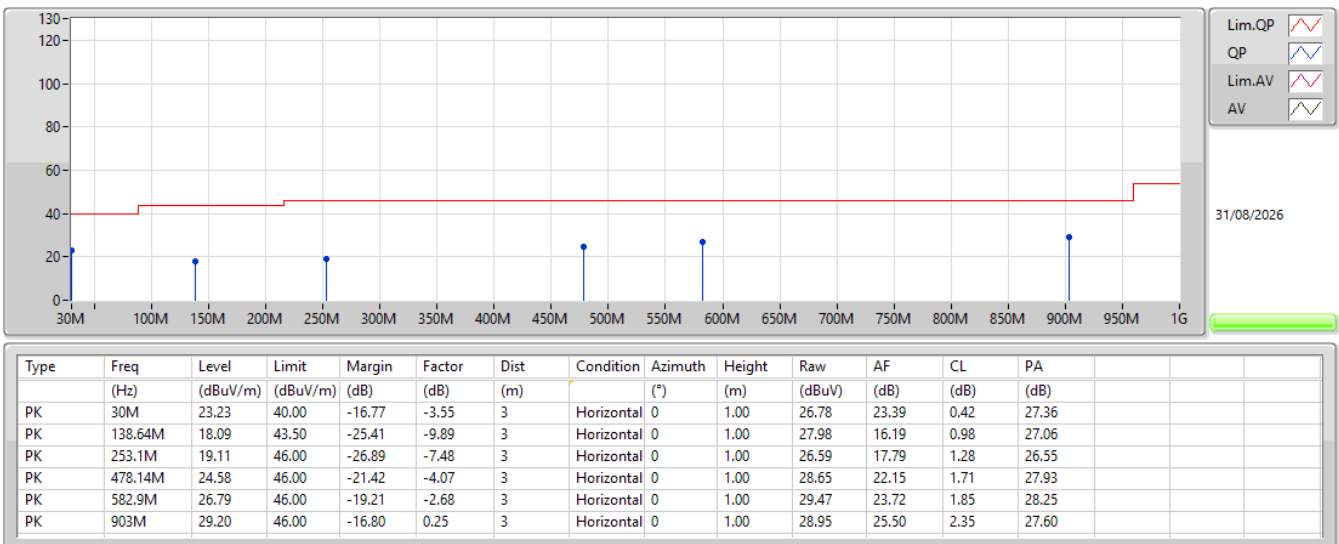
2.4-2.4835GHz_BT-LE(2Mbps)_1TX(Port2)

2440MHz_Adapter



2.4-2.4835GHz_BT-LE(2Mbps)_1TX(Port2)

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)_1TX(Port1)	Pass	AV	2.4868G	47.17	54.00	-6.83	3	Vertical	75	1.06
BT-LE(1Mbps)_1TX(Port2)	Pass	AV	2.4976G	46.87	54.00	-7.13	3	Horizontal	158	1.71
BT-LE(2Mbps)_1TX(Port1)	Pass	AV	2.4838G	47.20	54.00	-6.80	3	Vertical	73	1.07
BT-LE(2Mbps)_1TX(Port2)	Pass	AV	2.4912G	47.22	54.00	-6.78	3	Horizontal	158	1.72

Result

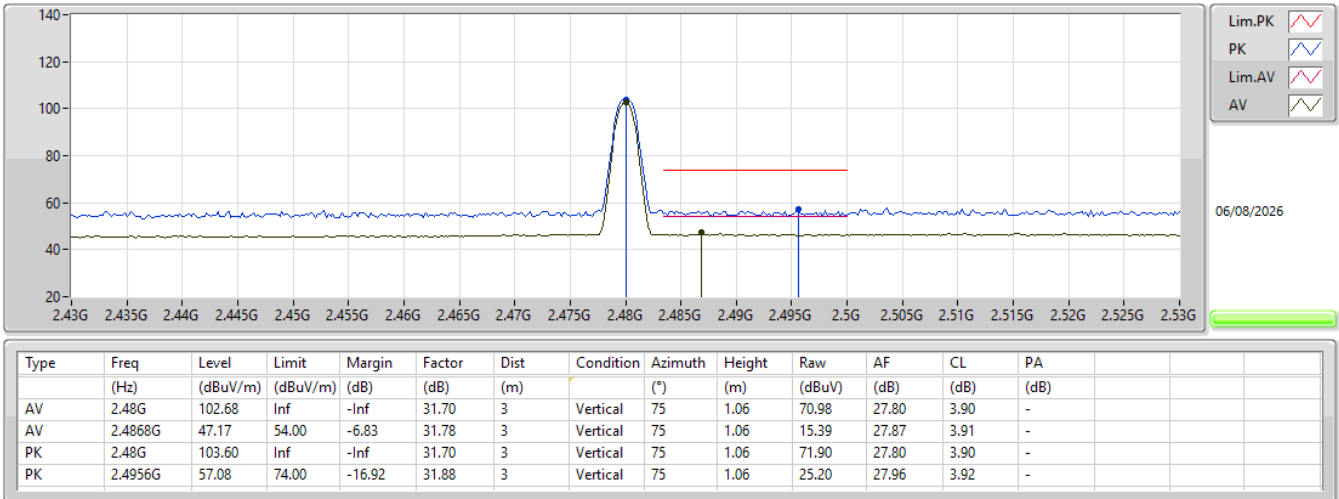
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.39G	45.67	54.00	-8.33	3	Vertical	73	1.90
2402MHz	Pass	AV	2.402G	100.72	Inf	-Inf	3	Vertical	73	1.90
2402MHz	Pass	PK	2.3738G	55.74	74.00	-18.26	3	Vertical	73	1.90
2402MHz	Pass	PK	2.402G	101.56	Inf	-Inf	3	Vertical	73	1.90
2402MHz	Pass	AV	2.383G	45.70	54.00	-8.30	3	Horizontal	69	1.07
2402MHz	Pass	AV	2.402G	94.71	Inf	-Inf	3	Horizontal	69	1.07
2402MHz	Pass	PK	2.3818G	56.44	74.00	-17.56	3	Horizontal	69	1.07
2402MHz	Pass	PK	2.402G	95.57	Inf	-Inf	3	Horizontal	69	1.07
2402MHz	Pass	AV	4.80399G	33.10	54.00	-20.90	3	Vertical	248	1.04
2402MHz	Pass	PK	4.80339G	42.84	74.00	-31.16	3	Vertical	248	1.04
2402MHz	Pass	AV	4.80424G	32.92	54.00	-21.08	3	Horizontal	358	1.61
2402MHz	Pass	PK	4.80441G	42.44	74.00	-31.56	3	Horizontal	358	1.61
2440MHz	Pass	AV	2.3712G	45.88	54.00	-8.12	3	Vertical	74	1.28
2440MHz	Pass	AV	2.44G	101.28	Inf	-Inf	3	Vertical	74	1.28
2440MHz	Pass	AV	2.4932G	46.38	54.00	-7.62	3	Vertical	74	1.28
2440MHz	Pass	PK	2.3676G	55.81	74.00	-18.19	3	Vertical	74	1.28
2440MHz	Pass	PK	2.4404G	102.20	Inf	-Inf	3	Vertical	74	1.28
2440MHz	Pass	PK	2.4848G	56.56	74.00	-17.44	3	Vertical	74	1.28
2440MHz	Pass	AV	2.3852G	45.89	54.00	-8.11	3	Horizontal	70	1.00
2440MHz	Pass	AV	2.44G	96.61	Inf	-Inf	3	Horizontal	70	1.00
2440MHz	Pass	AV	2.4888G	46.45	54.00	-7.55	3	Horizontal	70	1.00
2440MHz	Pass	PK	2.3764G	56.75	74.00	-17.25	3	Horizontal	70	1.00
2440MHz	Pass	PK	2.4404G	97.57	Inf	-Inf	3	Horizontal	70	1.00
2440MHz	Pass	PK	2.4944G	56.83	74.00	-17.17	3	Horizontal	70	1.00
2440MHz	Pass	AV	4.87999G	36.56	54.00	-17.44	3	Vertical	123	1.71
2440MHz	Pass	PK	4.87971G	46.28	74.00	-27.72	3	Vertical	123	1.71
2440MHz	Pass	AV	4.88012G	35.25	54.00	-18.75	3	Horizontal	179	1.39
2440MHz	Pass	PK	4.87993G	44.82	74.00	-29.18	3	Horizontal	179	1.39
2480MHz	Pass	AV	2.48G	102.68	Inf	-Inf	3	Vertical	75	1.06
2480MHz	Pass	AV	2.4868G	47.17	54.00	-6.83	3	Vertical	75	1.06
2480MHz	Pass	PK	2.48G	103.60	Inf	-Inf	3	Vertical	75	1.06
2480MHz	Pass	PK	2.4956G	57.08	74.00	-16.92	3	Vertical	75	1.06
2480MHz	Pass	AV	2.48G	98.05	Inf	-Inf	3	Horizontal	72	1.44
2480MHz	Pass	AV	2.4864G	46.66	54.00	-7.34	3	Horizontal	72	1.44
2480MHz	Pass	PK	2.48G	98.98	Inf	-Inf	3	Horizontal	72	1.44
2480MHz	Pass	PK	2.4998G	56.52	74.00	-17.48	3	Horizontal	72	1.44
2480MHz	Pass	AV	4.9598G	32.48	54.00	-21.52	3	Vertical	339	1.49
2480MHz	Pass	PK	4.9605G	42.81	74.00	-31.19	3	Vertical	339	1.49
2480MHz	Pass	AV	4.95975G	32.33	54.00	-21.67	3	Horizontal	7	1.78
2480MHz	Pass	PK	4.95951G	42.87	74.00	-31.13	3	Horizontal	7	1.78
BT-LE(2Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.363G	46.25	54.00	-7.75	3	Vertical	74	1.04
2402MHz	Pass	AV	2.402G	97.32	Inf	-Inf	3	Vertical	74	1.04
2402MHz	Pass	PK	2.363G	56.55	74.00	-17.45	3	Vertical	74	1.04
2402MHz	Pass	PK	2.402G	99.82	Inf	-Inf	3	Vertical	74	1.04
2402MHz	Pass	AV	2.3558G	46.48	54.00	-7.52	3	Horizontal	71	1.50
2402MHz	Pass	AV	2.4018G	91.71	Inf	-Inf	3	Horizontal	71	1.50
2402MHz	Pass	PK	2.376G	56.75	74.00	-17.25	3	Horizontal	71	1.50
2402MHz	Pass	PK	2.402G	94.26	Inf	-Inf	3	Horizontal	71	1.50
2402MHz	Pass	AV	4.80312G	32.36	54.00	-21.64	3	Vertical	251	1.10
2402MHz	Pass	PK	4.80401G	42.73	74.00	-31.27	3	Vertical	251	1.10
2402MHz	Pass	AV	4.80304G	32.23	54.00	-21.77	3	Horizontal	360	1.60
2402MHz	Pass	PK	4.80385G	42.95	74.00	-31.05	3	Horizontal	360	1.60
2440MHz	Pass	AV	2.3784G	46.42	54.00	-7.58	3	Vertical	73	1.27
2440MHz	Pass	AV	2.44G	99.04	Inf	-Inf	3	Vertical	73	1.27
2440MHz	Pass	AV	2.4928G	47.01	54.00	-6.99	3	Vertical	73	1.27
2440MHz	Pass	PK	2.38G	56.73	74.00	-17.27	3	Vertical	73	1.27
2440MHz	Pass	PK	2.4404G	101.46	Inf	-Inf	3	Vertical	73	1.27
2440MHz	Pass	PK	2.4856G	56.47	74.00	-17.53	3	Vertical	73	1.27
2440MHz	Pass	AV	2.3644G	46.03	54.00	-7.97	3	Horizontal	70	1.16

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	94.73	Inf	-Inf	3	Horizontal	70	1.16
2440MHz	Pass	AV	2.4996G	46.83	54.00	-7.17	3	Horizontal	70	1.16
2440MHz	Pass	PK	2.3716G	55.92	74.00	-18.08	3	Horizontal	70	1.16
2440MHz	Pass	PK	2.44G	97.16	Inf	-Inf	3	Horizontal	70	1.16
2440MHz	Pass	PK	2.4892G	56.80	74.00	-17.20	3	Horizontal	70	1.16
2440MHz	Pass	AV	4.87927G	34.02	54.00	-19.98	3	Vertical	66	2.15
2440MHz	Pass	PK	4.8803G	44.58	74.00	-29.42	3	Vertical	66	2.15
2440MHz	Pass	AV	4.88003G	34.62	54.00	-19.38	3	Horizontal	297	1.50
2440MHz	Pass	PK	4.87995G	43.95	74.00	-30.05	3	Horizontal	297	1.50
2480MHz	Pass	AV	2.48G	101.44	Inf	-Inf	3	Vertical	73	1.07
2480MHz	Pass	AV	2.4838G	47.20	54.00	-6.80	3	Vertical	73	1.07
2480MHz	Pass	PK	2.48G	103.81	Inf	-Inf	3	Vertical	73	1.07
2480MHz	Pass	PK	2.4835G	57.19	74.00	-16.81	3	Vertical	73	1.07
2480MHz	Pass	AV	2.48G	92.17	Inf	-Inf	3	Horizontal	72	1.45
2480MHz	Pass	AV	2.4872G	46.96	54.00	-7.04	3	Horizontal	72	1.45
2480MHz	Pass	PK	2.48G	94.57	Inf	-Inf	3	Horizontal	72	1.45
2480MHz	Pass	PK	2.488G	57.02	74.00	-16.98	3	Horizontal	72	1.45
2480MHz	Pass	AV	4.96101G	32.19	54.00	-21.81	3	Vertical	341	1.48
2480MHz	Pass	PK	4.96038G	42.15	74.00	-31.85	3	Vertical	341	1.48
2480MHz	Pass	AV	4.9611G	31.03	54.00	-22.97	3	Horizontal	0	1.50
2480MHz	Pass	PK	4.95961G	42.35	74.00	-31.65	3	Horizontal	0	1.50
BT-LE(1Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3796G	45.72	54.00	-8.28	3	Vertical	135	1.41
2402MHz	Pass	AV	2.402G	98.17	Inf	-Inf	3	Vertical	135	1.41
2402MHz	Pass	PK	2.3654G	56.68	74.00	-17.32	3	Vertical	135	1.41
2402MHz	Pass	PK	2.402G	99.02	Inf	-Inf	3	Vertical	135	1.41
2402MHz	Pass	AV	2.3868G	45.71	54.00	-8.29	3	Horizontal	162	1.77
2402MHz	Pass	AV	2.402G	96.12	Inf	-Inf	3	Horizontal	162	1.77
2402MHz	Pass	PK	2.368G	56.20	74.00	-17.80	3	Horizontal	162	1.77
2402MHz	Pass	PK	2.4018G	96.99	Inf	-Inf	3	Horizontal	162	1.77
2402MHz	Pass	AV	4.80371G	37.69	54.00	-16.31	3	Vertical	305	1.64
2402MHz	Pass	PK	4.80396G	45.82	74.00	-28.18	3	Vertical	305	1.64
2402MHz	Pass	AV	4.80374G	37.67	54.00	-16.33	3	Horizontal	163	1.37
2402MHz	Pass	PK	4.80406G	45.98	74.00	-28.02	3	Horizontal	163	1.37
2440MHz	Pass	AV	2.39G	45.95	54.00	-8.05	3	Vertical	134	1.39
2440MHz	Pass	AV	2.44G	98.30	Inf	-Inf	3	Vertical	134	1.39
2440MHz	Pass	AV	2.4964G	46.50	54.00	-7.50	3	Vertical	134	1.39
2440MHz	Pass	PK	2.3788G	55.84	74.00	-18.16	3	Vertical	134	1.39
2440MHz	Pass	PK	2.44G	99.31	Inf	-Inf	3	Vertical	134	1.39
2440MHz	Pass	PK	2.4932G	56.87	74.00	-17.13	3	Vertical	134	1.39
2440MHz	Pass	AV	2.3536G	45.78	54.00	-8.22	3	Horizontal	158	1.71
2440MHz	Pass	AV	2.44G	97.36	Inf	-Inf	3	Horizontal	158	1.71
2440MHz	Pass	AV	2.4976G	46.87	54.00	-7.13	3	Horizontal	158	1.71
2440MHz	Pass	PK	2.34G	56.03	74.00	-17.97	3	Horizontal	158	1.71
2440MHz	Pass	PK	2.4404G	98.36	Inf	-Inf	3	Horizontal	158	1.71
2440MHz	Pass	PK	2.4876G	56.66	74.00	-17.34	3	Horizontal	158	1.71
2440MHz	Pass	AV	4.87957G	35.97	54.00	-18.03	3	Vertical	299	1.74
2440MHz	Pass	PK	4.88055G	44.55	74.00	-29.45	3	Vertical	299	1.74
2440MHz	Pass	AV	4.87992G	35.81	54.00	-18.19	3	Horizontal	333	1.73
2440MHz	Pass	PK	4.88013G	44.76	74.00	-29.24	3	Horizontal	333	1.73
2480MHz	Pass	AV	2.48G	94.29	Inf	-Inf	3	Vertical	138	1.82
2480MHz	Pass	AV	2.4868G	46.40	54.00	-7.60	3	Vertical	138	1.82
2480MHz	Pass	PK	2.48G	95.26	Inf	-Inf	3	Vertical	138	1.82
2480MHz	Pass	PK	2.4916G	56.87	74.00	-17.13	3	Vertical	138	1.82
2480MHz	Pass	AV	2.48G	99.74	Inf	-Inf	3	Horizontal	205	1.53
2480MHz	Pass	AV	2.4892G	46.79	54.00	-7.21	3	Horizontal	205	1.53
2480MHz	Pass	PK	2.48G	100.59	Inf	-Inf	3	Horizontal	205	1.53
2480MHz	Pass	PK	2.4882G	56.76	74.00	-17.24	3	Horizontal	205	1.53
2480MHz	Pass	AV	4.95994G	37.74	54.00	-16.26	3	Vertical	46	2.95
2480MHz	Pass	PK	4.95956G	46.25	74.00	-27.75	3	Vertical	46	2.95
2480MHz	Pass	AV	4.9599G	36.53	54.00	-17.47	3	Horizontal	337	1.70
2480MHz	Pass	PK	4.95982G	45.05	74.00	-28.95	3	Horizontal	337	1.70

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.358G	46.39	54.00	-7.61	3	Vertical	133	1.25
2402MHz	Pass	AV	2.402G	95.40	Inf	-Inf	3	Vertical	133	1.25
2402MHz	Pass	PK	2.3888G	55.88	74.00	-18.12	3	Vertical	133	1.25
2402MHz	Pass	PK	2.402G	97.91	Inf	-Inf	3	Vertical	133	1.25
2402MHz	Pass	AV	2.3848G	46.53	54.00	-7.47	3	Horizontal	163	1.86
2402MHz	Pass	AV	2.402G	94.61	Inf	-Inf	3	Horizontal	163	1.86
2402MHz	Pass	PK	2.3728G	55.98	74.00	-18.02	3	Horizontal	163	1.86
2402MHz	Pass	PK	2.402G	97.13	Inf	-Inf	3	Horizontal	163	1.86
2402MHz	Pass	AV	4.80387G	35.53	54.00	-18.47	3	Vertical	120	1.50
2402MHz	Pass	PK	4.80334G	44.63	74.00	-29.37	3	Vertical	120	1.50
2402MHz	Pass	AV	4.8031G	36.70	54.00	-17.30	3	Horizontal	163	1.48
2402MHz	Pass	PK	4.80386G	45.22	74.00	-28.78	3	Horizontal	163	1.48
2440MHz	Pass	AV	2.362G	46.03	54.00	-7.97	3	Vertical	134	1.39
2440MHz	Pass	AV	2.44G	96.06	Inf	-Inf	3	Vertical	134	1.39
2440MHz	Pass	AV	2.4948G	46.69	54.00	-7.31	3	Vertical	134	1.39
2440MHz	Pass	PK	2.3452G	56.03	74.00	-17.97	3	Vertical	134	1.39
2440MHz	Pass	PK	2.44G	98.47	Inf	-Inf	3	Vertical	134	1.39
2440MHz	Pass	PK	2.4988G	56.40	74.00	-17.60	3	Vertical	134	1.39
2440MHz	Pass	AV	2.3776G	46.73	54.00	-7.27	3	Horizontal	158	1.72
2440MHz	Pass	AV	2.44G	96.46	Inf	-Inf	3	Horizontal	158	1.72
2440MHz	Pass	AV	2.4912G	47.22	54.00	-6.78	3	Horizontal	158	1.72
2440MHz	Pass	PK	2.3772G	55.74	74.00	-18.26	3	Horizontal	158	1.72
2440MHz	Pass	PK	2.4404G	98.88	Inf	-Inf	3	Horizontal	158	1.72
2440MHz	Pass	PK	2.4964G	57.10	74.00	-16.90	3	Horizontal	158	1.72
2440MHz	Pass	AV	4.88105G	36.13	54.00	-17.87	3	Vertical	44	3.00
2440MHz	Pass	PK	4.87895G	44.66	74.00	-29.34	3	Vertical	44	3.00
2440MHz	Pass	AV	4.88094G	35.18	54.00	-18.82	3	Horizontal	336	2.06
2440MHz	Pass	PK	4.87919G	45.08	74.00	-28.92	3	Horizontal	336	2.06
2480MHz	Pass	AV	2.48G	92.67	Inf	-Inf	3	Vertical	137	1.82
2480MHz	Pass	AV	2.4932G	47.08	54.00	-6.92	3	Vertical	137	1.82
2480MHz	Pass	PK	2.48G	95.17	Inf	-Inf	3	Vertical	137	1.82
2480MHz	Pass	PK	2.4892G	57.20	74.00	-16.80	3	Vertical	137	1.82
2480MHz	Pass	AV	2.4798G	100.36	Inf	-Inf	3	Horizontal	206	1.52
2480MHz	Pass	AV	2.4866G	47.08	54.00	-6.92	3	Horizontal	206	1.52
2480MHz	Pass	PK	2.48G	102.87	Inf	-Inf	3	Horizontal	206	1.52
2480MHz	Pass	PK	2.4976G	57.11	74.00	-16.89	3	Horizontal	206	1.52
2480MHz	Pass	AV	4.95903G	34.79	54.00	-19.21	3	Vertical	35	1.68
2480MHz	Pass	PK	4.96002G	44.22	74.00	-29.78	3	Vertical	35	1.68
2480MHz	Pass	AV	4.95899G	36.12	54.00	-17.88	3	Horizontal	187	1.76
2480MHz	Pass	PK	4.95894G	45.39	74.00	-28.61	3	Horizontal	187	1.76

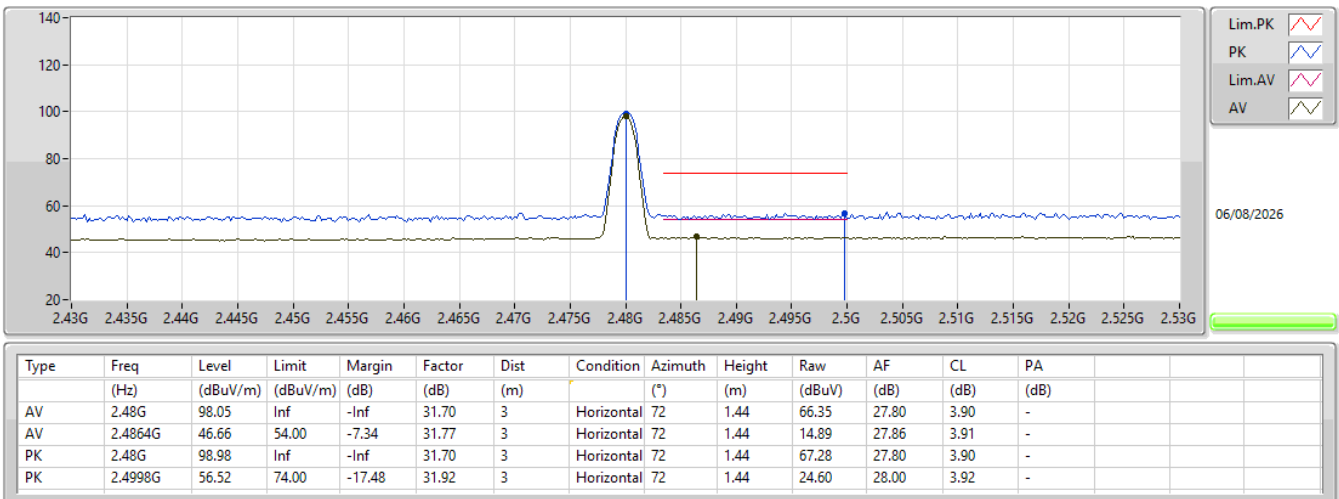
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2480MHz_TX



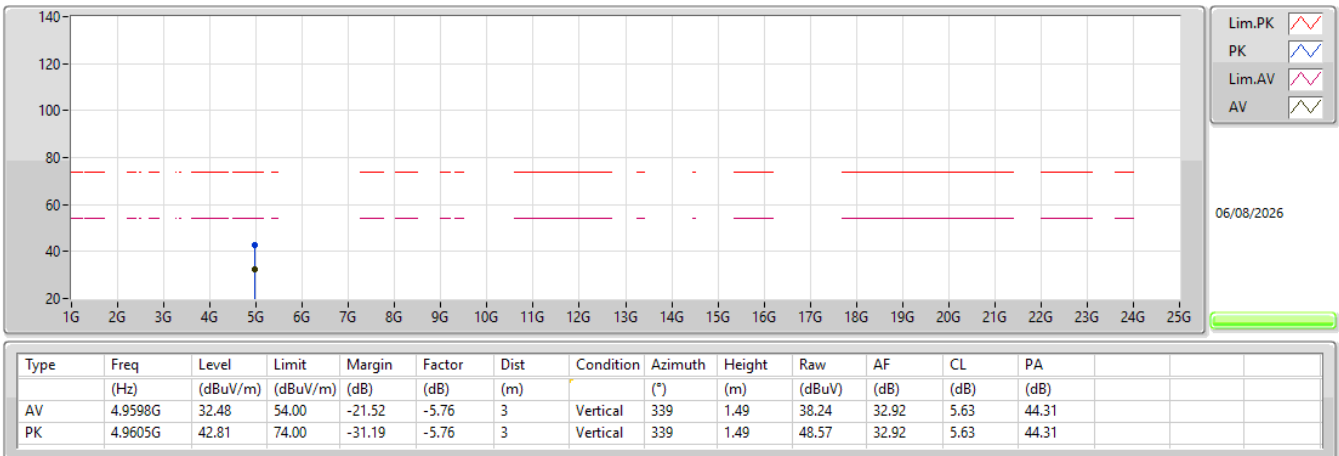
2.4-2.4835GHz_BT-LE(1Mbps)_1TX(Port1)

2480MHz_TX



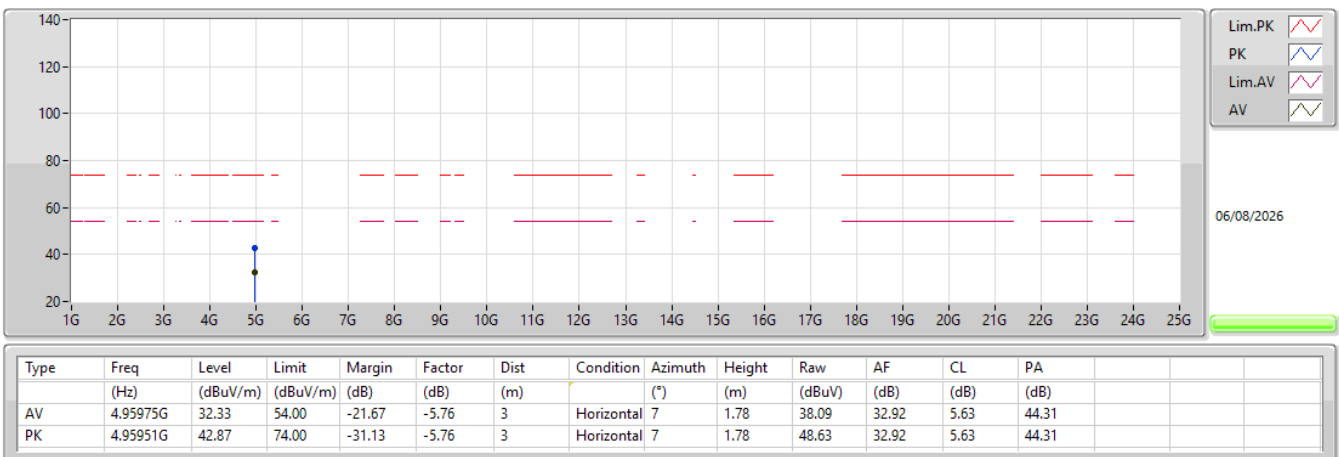
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2480MHz_TX



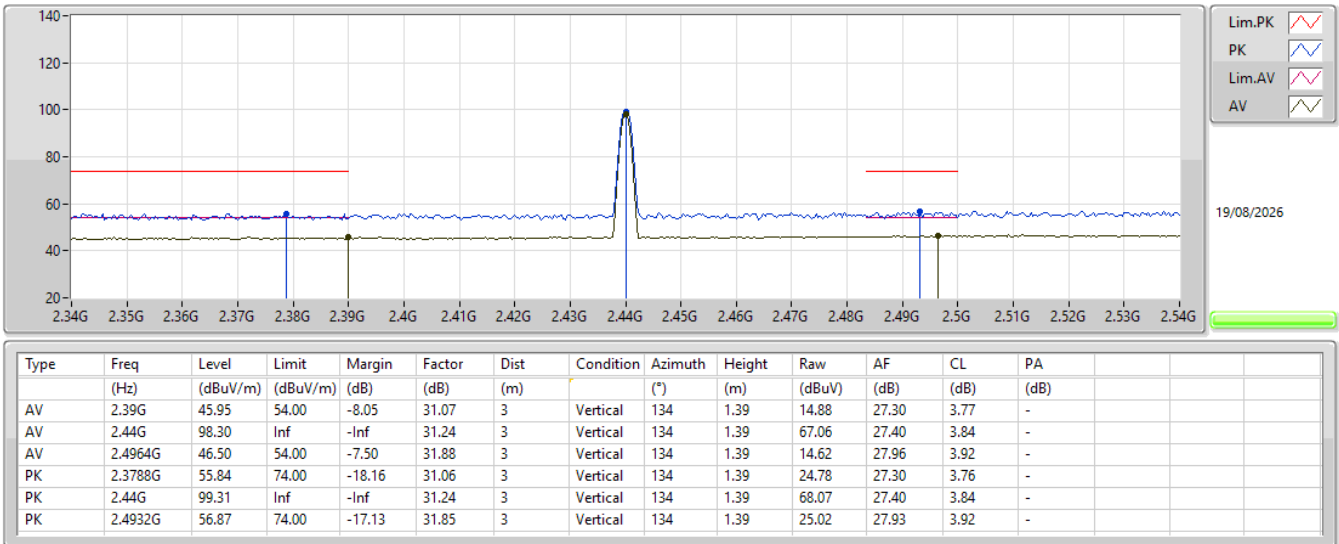
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2480MHz_TX



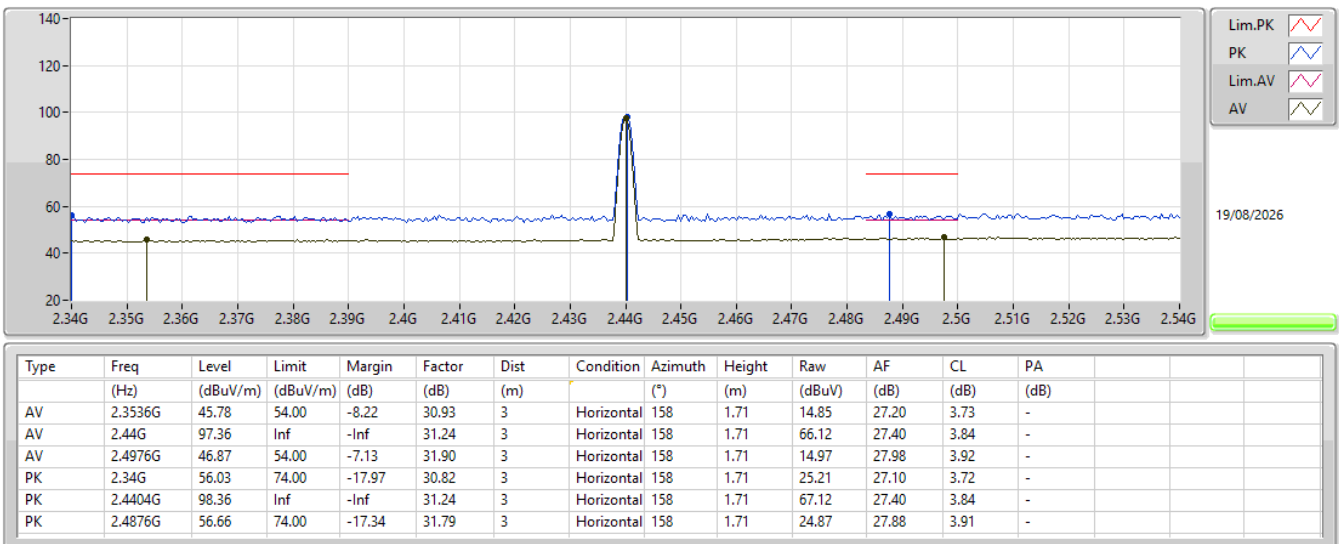
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2440MHz_TX



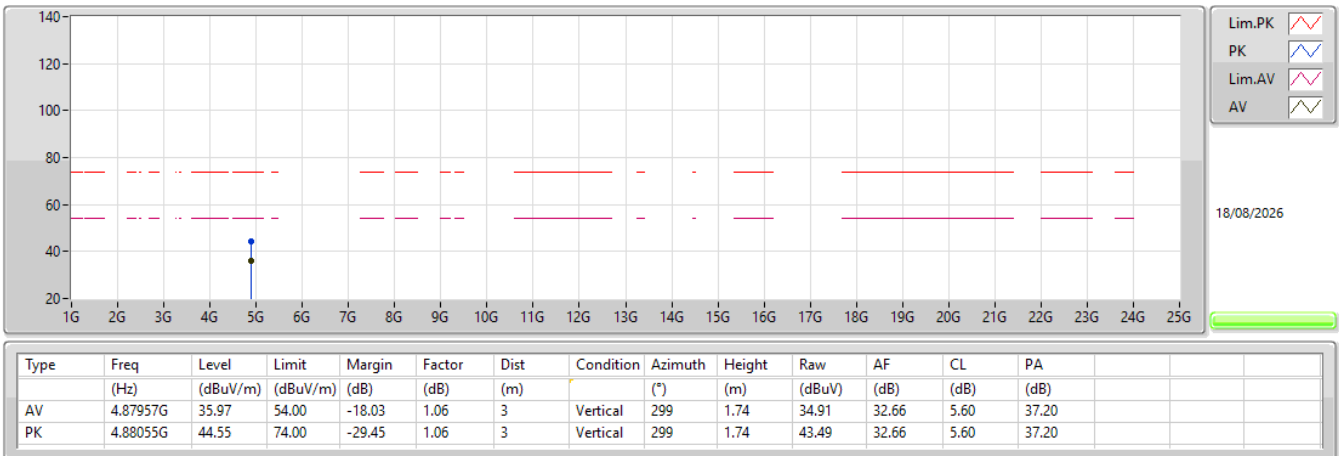
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2440MHz_TX



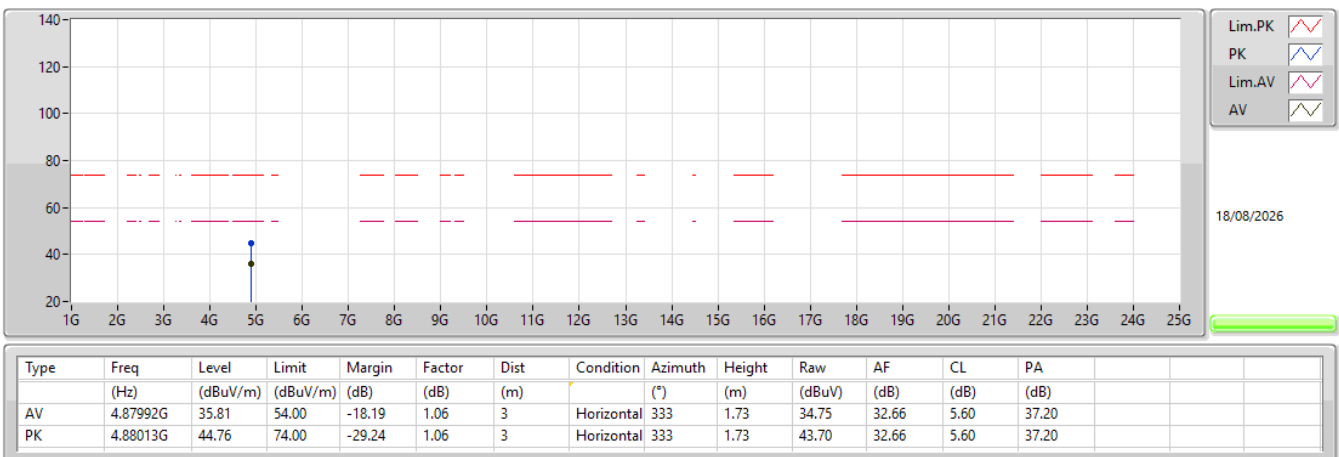
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2440MHz_TX



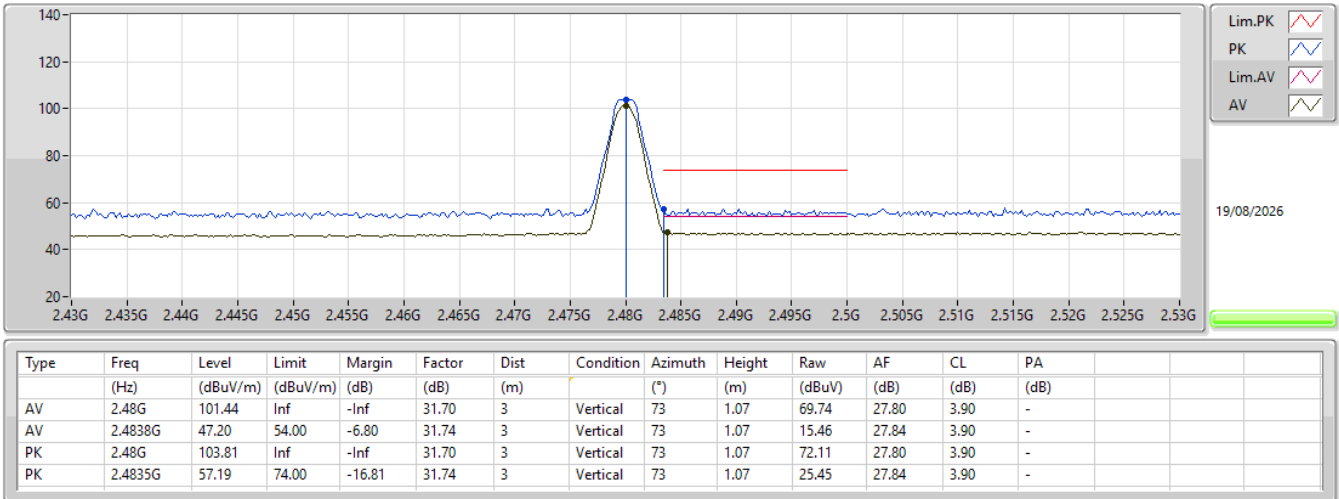
2.4-2.4835GHz_BT-LE(1Mbps)_1TX(Port2)

2440MHz_TX



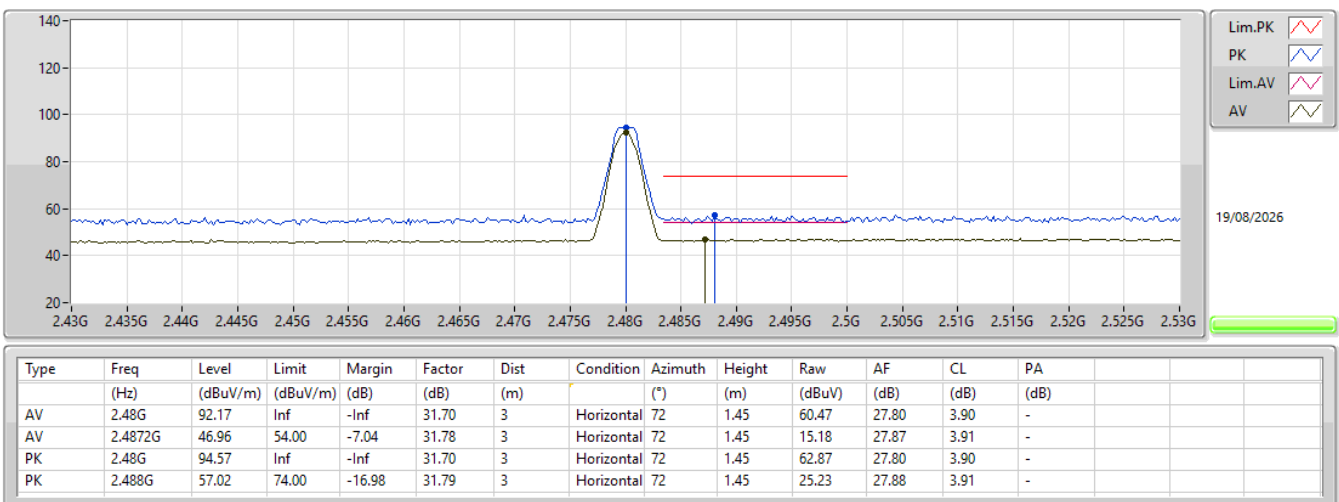
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2480MHz_TX



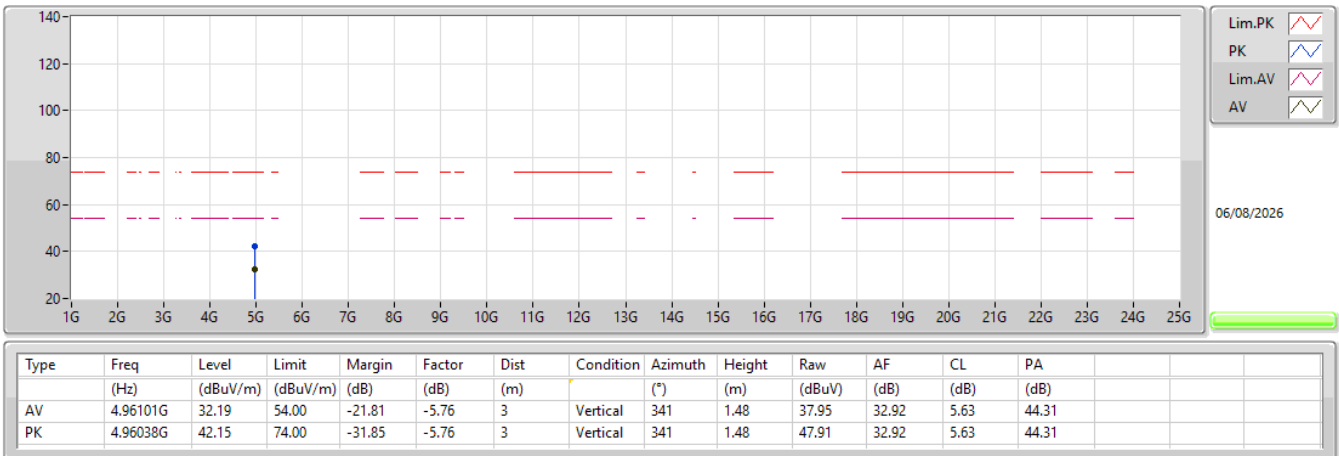
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2480MHz_TX



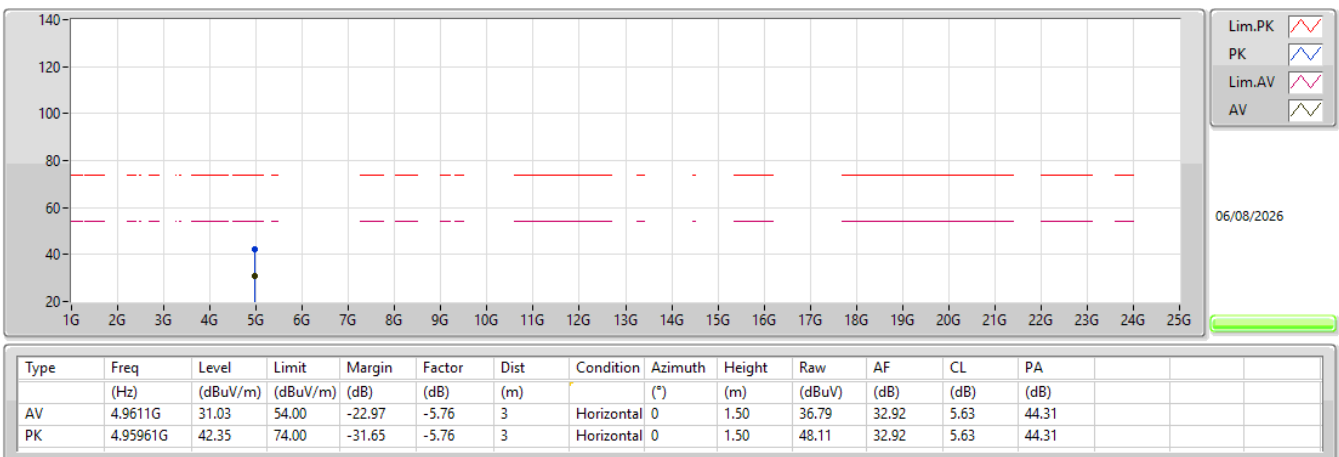
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2480MHz_TX



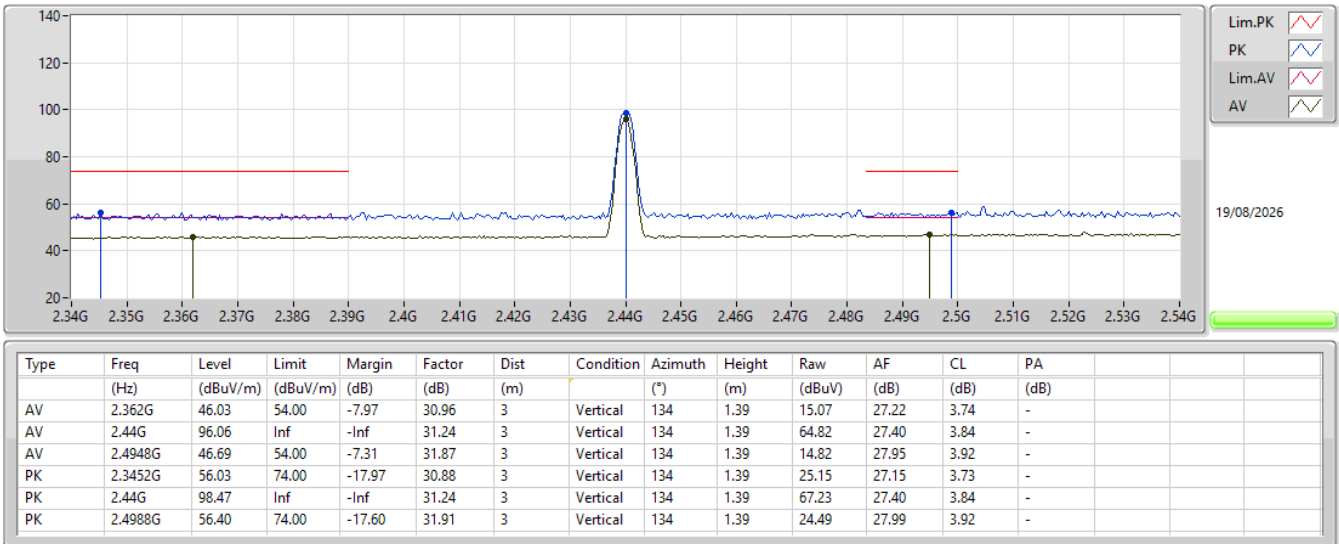
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2480MHz_TX



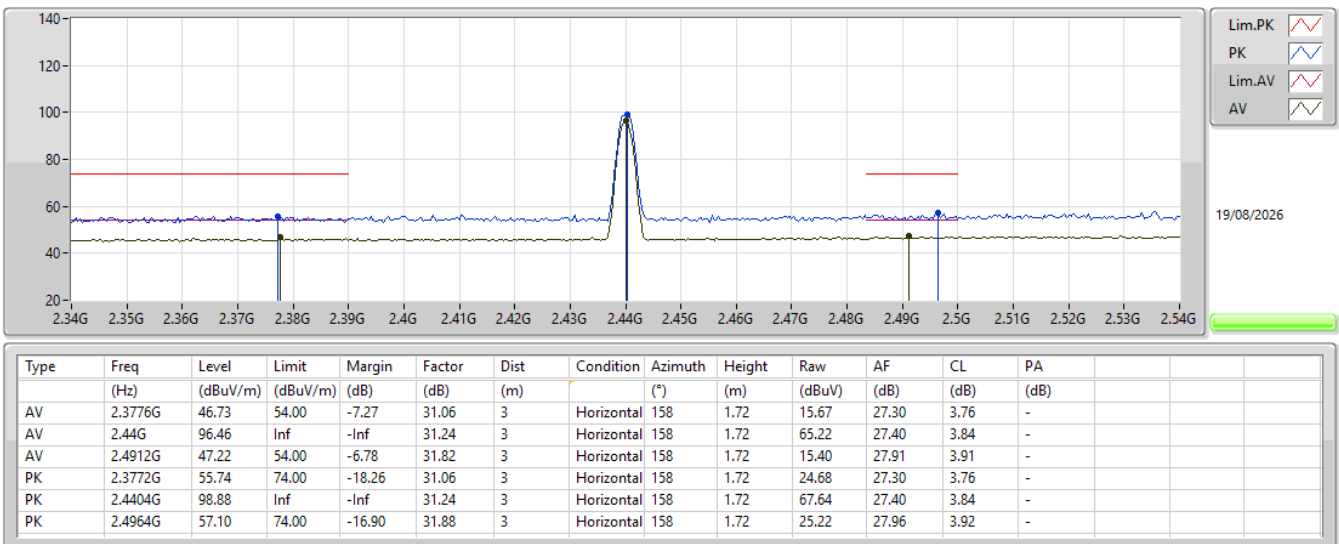
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2440MHz_TX



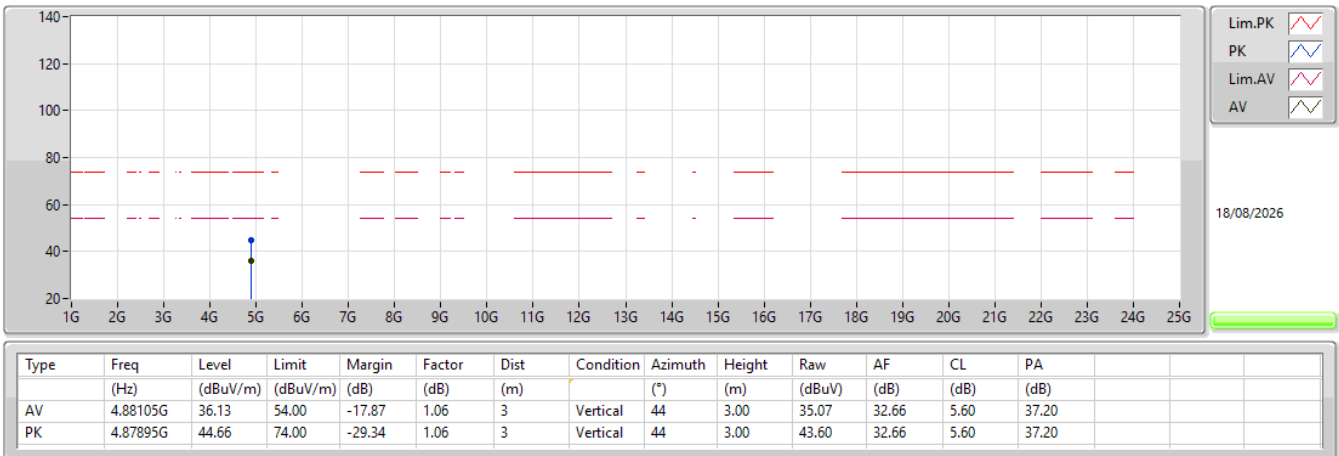
2.4-2.4835GHz_BT-LE(2Mbps)_1TX(Port2)

2440MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)_1TX(Port2)

2440MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)_1TX(Port2)

2440MHz_TX

